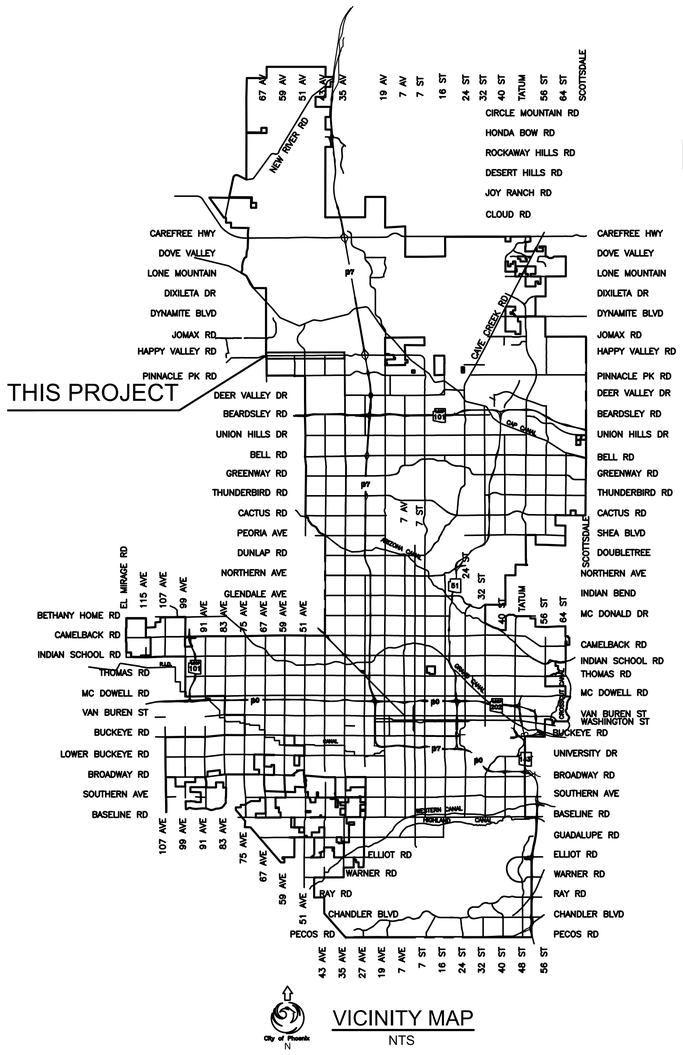


VICINITY MAP
NTS

CITY OF PHOENIX
STREET TRANSPORTATION DEPARTMENT
DESIGN AND CONSTRUCTION MANAGEMENT DIVISION

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
FEDERAL AID #: PHX-0(363)D
ADOT TRACS #: T0239
COP #: ST85100437

2024

AS-BUILT

CHANGES REQUIRED YES _____ NO ____

NAME (PRINT) _____

SIGNATURE _____

COMPANY (PRINT) _____

DATE _____

LENGTH OF PROJECT = 20,705 LF = 3.92 MILES
AREA OF DISTURBANCE = 13.81 ACRES

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

CITY BENCHMARKS

- C.O.P. BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)
- C.O.P. BM 1507: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 47TH AVENUE ELEV: 1411.07' (C.O.P. DATUM)
- C.O.P. BM 1481: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 51ST AVENUE ELEV: 1420.08' (C.O.P. DATUM)
- C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55TH AVENUE ELEV: 1419.94' (C.O.P. DATUM)

APPROVED _____ 09/24/2024
ASSISTANT STREET TRANSPORTATION DIRECTOR — DATE

APPROVED _____ 09/24/2024
DEPUTY STREET TRANSPORTATION DIRECTOR — DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST85100437	1	368	

36634
TODD J.
CENCIMINO
REGISTERED
ARIZONA U.S.A.

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

MAYOR
KATE GALLEGO
CITY MANAGER
JEFFERY BARTON
CITY COUNCIL

DISTRICT NO 1.	ANN O'BRIEN
DISTRICT NO 2.	JIM WARING
DISTRICT NO 3.	DEBRA STARK
DISTRICT NO 4.	LAURA PASTOR
DISTRICT NO 5.	BETTY GUARDADO
DISTRICT NO 6.	KEVIN ROBINSON
DISTRICT NO 7.	CARLOS GALINDO–ELVIRA
DISTRICT NO 8.	KESHA WASHINGTON

INDEX OF SHEETS

SHEET NO.	DWG. SERIES NO.	SHEET TITLE
1	G-1.01	COVER
2	G-1.02	LEGEND AND GENERAL NOTES
3	G-1.03	KEY MAP
4-6	G-2.01-G-2.03	ROADWAY QUANTITY SUMMARY SHEETS
7-16	G-3.01-G-3.10	TYPICAL SECTIONS
17	G-4.01	GEOMETRIC LAYOUT
18-60	P-1.01-P-1.43	REMOVAL PLANS
61-145	P-2.01-P-2.85	ROADWAY PLANS AND PROFILES
146	P-3.01	ROADWAY DETAILS
147-163	C-1.01-C1.17	PEDESTRIAN RAMP DETAILS
164-173	C-2.01-C2.10	BUS SHELTER PAD DETAILS
174-178	DP-1.01-DP-1.05	DRIVEWAY PROFILES
179	DR-1.01	NEW STORM DRAIN PIPE SUMMARY
180	DR-1.02	ALTERNATIVE PIPE SUMMARY
181-187	DR-1.03-DR-1.09	DRAINAGE CHANNEL DETAILS
188-189	DR-1.10-DR-1.11	CHANNEL DETAILS
190	DR-1.12	BASIN OUTLET DETAILS
191-192	DR-1.13-DR-1.14	INDIAN ESTATES BASIN OUTLET DETAILS
193-194	DR-1.15-DR-1.16	DRAINAGE DETAILS
195-196	DR-1.17-DR-1.18	RETENTION BASIN DETAILS
197-206	FD-1.01-FD-1.10	FIBER OPTIC DETAILS
207-209	SWMP-1.01-SWMP-1.03	SWMP PLANS
210	LP-1.01	LANDSCAPE/IRRIGATION SUMMARY SHEET
211-253	LP-2.01-LP-2.43	LANDSCAPE PLANS
254-295	LP-3.01-LP-3.42	IRRIGATION PLANS
296-297	LP-4.01-4.02	LANDSCAPE DETAILS
298-299	LP-4.03-LP-4.04	IRRIGATION DETAILS
300-311	SM-1.01-SM-1.12	PAINT & SIGN PLANS
312-315	TS-01-TS-04	TRAFFIC SIGNAL QUANTITIES
316-351	TS-05-TS-40	TRAFFIC SIGNAL PLANS AND DETAILS
352	SL-01	STREET LIGHTING COVER SHEET
353-363	SL-02-SL-12	STREET LIGHTING PLANS
364A - 364B	SL-STDS	APS LIGHTING DETAIL
364C - 364L	BD-1.01-BD-1.10	GEOTECHNICAL INFORMATION

Q.S. SE 03, SW 03, NE 07, NW 07

100 % SUBMITTAL

ST85100437

SHEET NAME: ST85100437CS.DWG, PLOT DATE: 7/11/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

LEGEND

- BENCHMARK
- NEW SURVEY MONUMENT – M.A.G. DETAIL 120–1 TYPE "B"
- EXISTING SURVEY MONUMENT – M.A.G. DETAIL 120–1 TYPE "B"
- NEW SURVEY MONUMENT – M.A.G. DETAIL 120–1 TYPE "A"
- EXISTING SURVEY MONUMENT – M.A.G. DETAIL 120–1 TYPE "A"
- NEW VERTICAL CURB & GUTTER – M.A.G. DETAIL 220 TYPE "A"
- EXISTING CURB & GUTTER
- NEW CONCRETE SIDEWALK – STD. DETAIL P1230
- EXISTING CONCRETE SIDEWALK
- NEW CONCRETE DRIVEWAY OR ALLEY ENT. PER DETAIL NO. ON PLANS
- EXISTING CONCRETE DRIVEWAY OR ALLEY ENT.
- NEW CONCRETE SIDEWALK RAMP PER DETAIL ON PLANS
- EXISTING CONCRETE SIDEWALK RAMP
- NEW SLOPE EASEMENT
- EXISTING SLOPE EASEMENT
- NEW TCE
- EXISTING EASEMENT LINE
- NEW R/W LINE
- EXISTING R/W LINE
- EXISTING WATER VALVE W/TOP OF OPERATING NUT ELEVATION
- NEW STREET OR TRAFFIC SIGN
- EXISTING STREET OR TRAFFIC SIGN
- NEW TRAFFIC SIGNAL POLE W/MAST ARM & SIGNAL INDICATIONS
- EXISTING TRAFFIC SIGNAL POLE W/MAST ARM & SIGNAL INDICATIONS
- NEW OR RELOCATED UTILITY POLE W/LINE INDICATING WIRE DIRECTION
- EXISTING UTILITY POLE W/LINE INDICATING WIRE DIRECTION
- NEW OR RELOCATED POWER POLE DOWN GUY ANCHOR
- EXISTING POWER POLE DOWN GUY ANCHOR
- NEW LUMINAIRE MOUNTED ON UTILITY POLE
- NEW LED COBRAHEAD LUMINAIRE WITH MAST ARM
- EXISTING STREET LIGHT MOUNTED ON UTILITY POLE
- EXISTING STREET LIGHT POLE
- EXISTING TREE
- EXISTING VEGETATION
- EXISTING BUSH
- NEW PAVEMENT CENTER LINE OR MONUMENT LINE
- EXISTING PAVEMENT CENTER LINE OR MONUMENT LINE
- NEW DECORATIVE BRICK PAVEMENT
- EXISTING DECORATIVE BRICK PAVEMENT
- NEW CUT LINE
- NEW FILL LINE
- NEW BLOCK WALL
- EXISTING BLOCK FENCE
- NEW WIRE FENCE
- EXISTING WIRE FENCE
- EXISTING PAVEMENT
- AVERAGE GROUND ELEVATION AT R/W LINE (SHOWN IN PROFILE)
- NEW MAIL BOX
- EXISTING MAIL BOX
- NEW WATER SERVICE W/SIZE AND WATER METER BOX
- EXISTING WATER SERVICE W/SIZE AND WATER METER BOX
- NEW UTILITY LINE W/SIZE & TYPE (12" AND SMALLER)
- EXISTING UTILITY LINE W/SIZE & TYPE (12" AND SMALLER)
- NEW UTILITY LINE W/SIZE & TYPE (GREATER THAN 12")
- EXISTING UTILITY LINE W/SIZE & TYPE (GREATER THAN 12")
- NEW MANHOLE (UTILITY DESIGNATION IN CENTER)
- EXISTING MANHOLE (UTILITY DESIGNATION IN CENTER)
- NEW STORM SEWER (GREATER THAN 12")
- EXISTING STORM SEWER OR NEW STORM SEWER SHOWN ON SEPARATE PLANS (GREATER THAN 12")
- NEW CATCH BASIN, GUTTER INLET (LENGTH TO SCALE)
- EXISTING CATCH BASIN, GUTTER INLET
- EXISTING CATCH BASIN, CURB INLET
- NEW CATCH BASIN, CURB & GUTTER INLET (LENGTH TO SCALE)
- EXISTING CATCH BASIN, CURB & GUTTER INLET
- NEW IRRIGATION STANDPIPE – M.A.G. DETAIL 503
- EXISTING IRRIGATION STANDPIPE
- NEW OR RELOCATED FIRE HYDRANT BY CONTRACTOR
- EXISTING FIRE HYDRANT
- NEW OR RELOCATED UTILITY VALVE BY CONTRACTOR
- EXISTING UTILITY VALVE
- NEW OR RELOCATED IRRIGATION BOX BY CONTRACTOR
- EXISTING IRRIGATION BOX
- ADJUST EXIST. WATER VALVE BOX – C.O.P. DETAIL P1391

SAWCUT NOTES

1. USE CALLOUTS PROVIDED ON ROADWAY PLAN SHEETS AS CONTROL FOR SAWCUT LOCATIONS.
2. 2' MIN OFFSET FROM GUTTER ON CURB & GUTTER.
3. 2' MIN FROM FROM FACE OF CURB ON SINGLE CURB.
4. ALL OTHER SAWCUT CONTROL POINTS WILL BE CALLED OUT ON REMOVAL SHEETS.

ABBREVIATIONS

AP	ANGLE POINT
BCR	BEGIN CURB RETURN
BC	BRASS CAP
Bot FC	BOTTOM FACE OF CURB
CB	CATCH BASIN
CL	CENTERLINE
COP	CITY OF PHOENIX
CST	CONSTRUCTION
DE	DRAINAGE EASEMENT
DWY	DRIVEWAY
E	EASEMENT
ECR	END CURB RETURN
EL	ELEVATION
EX, EXST	EXISTING
F/C	FACE OF CURB
FG	FINISH GRADE
GB	GRADE BREAK
G	GUTTER
HH	HANDHOLE
L/S	LANDSCAPE
LE	LANDSCAPE EASEMENT
MH	MANHOLE
MOD	MAP OF DEDICATION
MURT E	MULTI–USE RECREATIONAL TRAIL EASEMENT
MUT	MULTI–USE TRAIL
P	PAVEMENT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENT
PVT	PRIVATE
PUE	PUBLIC UTILITY EASEMENT
R/W	RIGHT OF WAY
S/W	SIDEWALK
S/W E	SIDEWALK EASEMENT
SL	STREETLIGHT
SLP	STREET LIGHT EASEMENT
TCE	TEMPORARY CONSTRUCTION EASEMENT
TC	TOP OF CURB
VNE	VEHICULAR NON–ACCESS EASEMENT
WE	WATER EASEMENT
SA	SAWCUT ASPHALT, SEE SAWCUT NOTES
SC	SAWCUT CONCRET, SEE SAWCUT NOTES

STRUCTURAL NOTES

1. "CLEAR" DIMENSIONS FOR DEPTH OF REINFORCING STEEL ARE FROM FACE OF CONCRETE TO FACE OF BARS.
2. ALL EXPOSED EDGES OF CONCRETE SHALL BE BEVELED OR ROUNDED.
3. ALL EXPOSED CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH ARIZONA DEPT. OF TRANSPORTATION STANDARD SPECIFICATION 601–3.05 – FINISHING CONCRETE , UNLESS OTHERWISE SPECIFIED.

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CONTRACT SPECIFICATIONS; PLANS; CITY OF PHOENIX SUPPLEMENTS TO MAG STANDARD SPECIFICATIONS AND DETAILS; AND MAG STANDARD SPECIFICATIONS AND DETAILS, IN THAT ORDER OF PRECEDENCE, AT THE TIME OF CONSTRUCTION BID.
2. ALL STORM SEWER MANHOLES ARE TO BE CONSTRUCTED WITHOUT STEPS.
3. PIPE CONNECTIONS TO EXISTING CONCRETE PIPE MAINS SHALL BE MADE IN ACCORDANCE WITH DETAILS CALLED OUT ON THE PLANS. CONNECTION TO MAINS SHALL NOT BE CLOSER THAN 5', CENTER TO CENTER.
4. PIPE CONNECTIONS TO NEW PRECAST CONCRETE PIPE MAINS SHALL BE MADE WITH FACTORY MADE WYES OR TEES. THE DETAIL OF THE FITTINGS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE. PIPE CONNECTIONS TO NEW CAST IN PLACE CONCRETE PIPE MAINS SHALL BE MADE PER C.O.P. DETAIL P1576.
5. CATCH BASIN CONNECTOR PIPES SHALL BE LAID ON A STRAIGHT ALIGNMENT AND SLOPE UNLESS OTHERWISE SPECIFIED. IF BREAKS IN ALIGNMENT OR SLOPE ARE NECESSARY TO MEET FIELD CONDITIONS. THE MAXIMUM DEFLECTION SHALL BE 22–1/2°. THE BEND SHALL BE COLLARED ACCORDING TO C.O.P. DETAIL P1505. ANY ANGLE BENDS GREATER THAN 22–1/2° SHALL BE PREFABRICATED.
6. CONNECTOR PIPES SHALL CONNECT TO CATCH BASIN WALLS AT AN ANGLE NOT TO EXCEED 22–1/2° FROM PERPENDICULAR.
7. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND HORIZONTAL CONTROLS, ARE LOCATED ONLY APPROXIMATELY AND TO THE BEST AVAILABLE INFORMATION PROVIDED BY VARIOUS OWNERS OF THE FACILITIES, AND SUPPLEMENTED BY VISUAL SURFACE INFORMATION WHERE APPROPRIATE. ACCURACY, LOCATION AND COMPLETENESS OF THIS INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO INITIATION OF CONSTRUCTION.
8. TWO WORKING DAYS BEFORE CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ARIZONA 811 TO FIND AND FLAG UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT OTHER APPROPRIATE UTILITIES DIRECTLY IF THEY ARE NOT ON THE ARIZONA 811 SYSTEM.
9. VERTICAL CONTROL IS BASED ON CITY OF PHOENIX DATUM.
10. UNLESS OTHERWISE NOTED, STATIONS SHOWN ON PIPE PROFILES ARE ALONG CENTERLINE OF PIPE.
11. UNLESS OTHERWISE NOTED, PIPE SHALL BE BEDDED AND BACKFILLED IN ACCORDANCE WITH CITY OF PHOENIX DETAIL P1200 AND MAG SECTION 601.
12. CATCH BASINS ARE STATIONED PERPENDICULAR TO THE CENTERLINE OF THE STREET AT THE CENTERLINE OF THE MAINTENANCE BASIN.
13. SANITARY SEWER MAINS AND TAPS CROSSING OVER STORM DRAIN MAINS SHALL BE SUPPORTED PER M.A.G. DETAIL 403–1, 403–2, OR 403–3.
14. ALL EXISTING PRECAST CONCRETE SAFETY CURBS AND ALL EXISTING WOODEN PARKING CURBS, WHICH ARE INSIDE THE RIGHT OF WAY AND APPROXIMATELY PARALLEL TO THE NEW CURB LINE, SHALL BE RESET ON THE RIGHT OF WAY DIRECTLY OPPOSITE THEIR EXISTING LOCATION, WITH THE BACK EDGE ON THE RIGHT OF WAY LINE. ALL OTHER PRECAST CONCRETE SAFETY CURBS INSIDE THE STREET RIGHT OF WAY SHALL BE SALVAGED AND STOCK PILED FOR THE OWNER AT THE RIGHT OF WAY LINE.
15. EXISTING PRECAST CONCRETE SAFETY CURBS OUTSIDE THE RIGHT OF WAY, WHICH ARE DISTURBED BY NEW CONSTRUCTION SHALL BE RESET IN THEIR ORIGINAL POSITION BY THE CONTRACTOR.
16. ALL EXISTING DRIVEWAYS AND ALL EXISTING ALLEYS SHALL BE GRADED TO MATCH THE NEW WORK IN ACCORDANCE WITH STD. DETAIL P1164, UNLESS OTHERWISE SPECIFIED. EXISTING SURFACING SHALL BE REMOVED AND REPLACED AS NECESSARY.
17. ALL STATION & OFFSETS ARE TO F/C UNLESS OTHERWISE NOTED.
18. ALL UTILITY FRAMES, COVERS, VALVES, AND MANHOLES SHALL BE ADJUSTED TO FINISH ASPHALT GRADE AFTER PLACEMENT OF SURFACE COURSE BY CONTRACTOR PER COP AND MAG STANDARD DETAILS.
19. MAINTAIN A 6' HORIZONTAL CLEARANCE FROM ALL EXISTING WATER/SEWER MAINS AND A 3' HORIZONTAL CLEARANCE FROM ALL EXISTING WATER/SEWER SERVICE CONNECTIONS.
20. ALL FIRE HYDRANTS SHALL MAINTAIN A 6' HORIZONTAL CLEARANCE FROM ANY UTILITY AND ABOVE GROUND STRUCTURES FROM WHAT IS BEING PROPOSED.
21. FIRE HYDRANTS MUST BE UNOBSTRUCTED FROM THE FRONT.
22. CONTRACTOR SHALL COORDINATE THE FINAL FIBER OPTIC ALIGNMENT WITH OTHER PROPOSED IMPROVEMENTS TO AVOID CONFLICTS.
23. THE CONTRACTOR SHALL LAYOUT ALL ADA RAMPS, JUNCTION BOXES, AND FOUNDATION LOCATIONS FOR APPROVAL BY A TRAFFIC SIGNAL REPRESENTATIVE. CONTRACTOR MUST HAVE A CURRENT VISIBLE BLUESTAKE SHOWING ALL UTILITIES. ALL ADA RAMPS SHALL BE LAID OUT IN WHITE MARKING PAINT TO DETERMINE BEST TRAFFIC SIGNAL POLE LOCATIONS.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REGISTERED PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	2	368	

05/2024 DATE:

WILSON & COMPANY 50 W. Liberty Street, Suite 200, Reno, Nevada 89501

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LEGEND AND GENERAL NOTES

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR:	DES:	CK:	DWG. NO. G–1.02
RJN	ASF	TJC	
DATE: 05/24	DATE: 05/24	DATE: 05/24	2 OF 364

SHEET NAME: ST85100437LN.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

LEGEND

P–1.XX	REMOVAL PLAN	LP–2.XX	LANDSCAPE PLAN
P–2.XX	ROADWAY PLAN	LP–3.XX	IRRIGATION PLAN
DR–X.XX	DRAINAGE PLAN	SL–XX	LIGHTING PLAN

City of Phoenix
N



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	3	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SL–02 (SHT 352) | SL–03 (SHT 353) | SL–04 (SHT 354)

HAPPY VALLEY ROAD

BEGIN PROJECT

10+00 15+00 20+00 25+00 30+00 35+00 40+00 45+00 50+00 55+00 60+00 65+00

P–1.01 (SHT. 18) P–1.02 (SHT. 19) P–1.03 (SHT. 20) P–1.04 (SHT. 21) P–1.05 (SHT. 22) P–1.06 (SHT. 23) P–1.07 (SHT. 24) P–1.08 (SHT. 25) P–1.09 (SHT. 26) P–1.10 (SHT. 27) P–1.11 (SHT. 28) P–1.12 (SHT. 29)
P–2.01 (SHT. 61) P–2.03 (SHT. 63) P–2.05 (SHT. 65) P–2.07 (SHT. 67) P–2.09 (SHT. 69) P–2.11 (SHT. 71) P–2.13 (SHT. 73) P–2.15 (SHT. 75) P–2.17 (SHT. 77) P–2.19 (SHT. 79) P–2.21 (SHT. 81) P–2.23 (SHT. 83)
LP–2.01 (SHT. 211) LP–2.02 (SHT. 212) LP–2.03 (SHT. 213) LP–2.04 (SHT. 214) LP–2.05 (SHT. 215) LP–2.06 (SHT. 216) LP–2.07 (SHT. 217) LP–2.08 (SHT. 218) DR–1.06 (SHT. 184) DR–1.07 (SHT. 185) DR–1.08 (SHT. 186) DR–1.09 (SHT. 187)
LP–3.01 (SHT. 254) LP–3.02 (SHT. 255) LP–3.03 (SHT. 256) LP–3.04 (SHT. 257) LP–3.05 (SHT. 258) LP–3.06 (SHT. 259) LP–3.07 (SHT. 260) LP–3.08 (SHT. 261) LP–2.09 (SHT. 219) LP–2.10 (SHT. 220) LP–2.11 (SHT. 221) LP–2.12 (SHT. 222)
LP–3.09 (SHT. 262) LP–3.10 (SHT. 263) LP–3.11 (SHT. 264) LP–3.12 (SHT. 265)

67TH AVE | STA 13+00 | STA 18+00 | 65TH AVE | STA 23+00 | 64TH AVE | STA 28+00 | STA 33+00 | 62ND AVE | STA 38+00 | STA 43+00 | 61ST AVE | STA 48+00 | STA 53+00 | STA 58+00 | STA 63+00 | STA 68+00

MATCH A

SL–05 (SHT 355) | SL–06 (SHT 356) | SL–07 (SHT 357) | SL–08 (SHT 358)

HAPPY VALLEY ROAD

MATCH A

70+00 75+00 80+00 85+00 90+00 95+00 100+00 105+00 110+00 115+00 120+00 125+00

P–1.13 (SHT. 30) P–1.14 (SHT. 31) P–1.15 (SHT. 32) P–1.16 (SHT. 33) P–1.17 (SHT. 34) P–1.18 (SHT. 35) P–1.19 (SHT. 36) P–1.20 (SHT. 37) P–1.21 (SHT. 38) P–1.22 (SHT. 39) P–1.23 (SHT. 40) P–1.24 (SHT. 41)
P–2.25 (SHT. 85) P–2.27 (SHT. 87) P–2.29 (SHT. 89) P–2.31 (SHT. 91) P–2.33 (SHT. 93) P–2.35 (SHT. 95) P–2.37 (SHT. 97) P–2.39 (SHT. 99) P–2.41 (SHT. 101) P–2.43 (SHT. 103) P–2.45 (SHT. 105) P–2.47 (SHT. 107)
LP–2.13 (SHT. 223) LP–2.14 (SHT. 224) LP–2.15 (SHT. 225) LP–2.16 (SHT. 226) LP–2.17 (SHT. 227) LP–2.18 (SHT. 228) LP–2.19 (SHT. 229) LP–2.20 (SHT. 230) LP–2.21 (SHT. 231) LP–2.22 (SHT. 232) LP–2.23 (SHT. 233) LP–2.24 (SHT. 234)
LP–3.13 (SHT. 266) LP–3.14 (SHT. 267) LP–3.15 (SHT. 268) LP–3.16 (SHT. 269) LP–3.17 (SHT. 270) LP–3.18 (SHT. 271) LP–3.19 (SHT. 272) LP–3.20 (SHT. 273) LP–3.21 (SHT. 274) LP–3.22 (SHT. 275) LP–3.23 (SHT. 276) LP–3.24 (SHT. 277)

STA 68+00 | STA 73+00 | STA 78+00 | STA 83+00 | 55TH AVE | STA 88+00 | STA 93+00 | STA 98+00 | 53RD AVE | STA 103+00 | STA 108+00 | P–1.43 (SHT. 60) P–2.85 (SHT. 145) | 51ST AVE | STA 113+00 | STA 118+00 | STA 123+00 | 49TH AVE | STA 128+00

MATCH B

SL–11 (SHT 361)

SL–08 (SHT 358) | SL–09 (SHT 359) | SL–10 (SHT 360)

HAPPY VALLEY ROAD

MATCH B

130+00 135+00 140+00 145+00 150+00 155+00 160+00 165+00 170+00 175+00 180+00 185+00

P–1.25 (SHT. 42) P–1.26 (SHT. 43) P–1.27 (SHT. 44) P–1.28 (SHT. 45) P–1.29 (SHT. 46) P–1.30 (SHT. 47) P–1.31 (SHT. 48) P–1.32 (SHT. 49) P–1.33 (SHT. 50) P–1.34 (SHT. 51) P–1.35 (SHT. 52) P–1.36 (SHT. 53)
P–2.49 (SHT. 109) P–2.51 (SHT. 111) P–2.53 (SHT. 113) P–2.55 (SHT. 115) P–2.57 (SHT. 117) P–2.59 (SHT. 119) P–2.61 (SHT. 121) P–2.63 (SHT. 123) P–2.65 (SHT. 125) P–2.67 (SHT. 127) P–2.69 (SHT. 129) P–2.71 (SHT. 131)
LP–2.25 (SHT. 235) LP–2.26 (SHT. 236) LP–2.27 (SHT. 237) LP–2.28 (SHT. 238) LP–2.29 (SHT. 239) LP–2.30 (SHT. 240) LP–2.31 (SHT. 241) LP–2.32 (SHT. 242) LP–2.33 (SHT. 243) LP–2.34 (SHT. 244) LP–2.35 (SHT. 245) LP–2.36 (SHT. 246)
LP–3.25 (SHT. 278) LP–3.26 (SHT. 279) LP–3.27 (SHT. 280) LP–3.28 (SHT. 281) LP–3.29 (SHT. 282) LP–3.30 (SHT. 283) LP–3.31 (SHT. 284) LP–3.32 (SHT. 285) LP–3.33 (SHT. 286) LP–3.34 (SHT. 287) LP–3.35 (SHT. 288) LP–3.36 (SHT. 289)

STA 128+00 | 48TH AVE | STA 133+00 | 47TH AVE STA 138+00 | STA 143+00 | STA 148+00 | 45TH AVE | STA 153+00 | STA 158+00 | STA 163+00 | 43RD AVE | STA 168+00 | STA 173+00 | 41ST AVE | STA 178+00 | STA 183+00 | 40TH DRIVE | STA 188+00

MATCH C

SL–11 (SHT 362) | SL–12 (SHT 363)

MATCH C

190+00 195+00 200+00 205+00 210+00 215+00

P–1.37 (SHT. 54) P–1.38 (SHT. 55) P–1.39 (SHT. 56) P–1.40 (SHT. 57) P–1.41 (SHT. 58) P–1.42 (SHT. 59)
P–2.73 (SHT. 133) P–2.75 (SHT. 135) P–2.77 (SHT. 137) P–2.79 (SHT. 139) P–2.81 (SHT. 141) P–2.83 (SHT. 143)
LP–2.37 (SHT. 247) LP–2.38 (SHT. 248) LP–2.39 (SHT. 249) LP–2.40 (SHT. 250) LP–2.41 (SHT. 251) LP–2.42 (SHT. 252)
LP–3.37 (SHT. 290) LP–3.38 (SHT. 291) LP–3.39 (SHT. 292) LP–3.40 (SHT. 293) LP–3.41 (SHT. 294) LP–3.42 (SHT. 295)

P–3.01 (SHT. 146) END PROJECT

STA 188+00 | 39TH AVE | STA 193+00 | STA 198+00 | STA 203+00 | 37TH AVE | STA 208+00 | STA 213+00 | 35TH AVE

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

KEY MAP

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. G–1.03
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 200' HORIZONTAL			3 OF 364

SHEET NAME: ST85100437KM.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

36634
TODD J.
CENCIMINO
REGISTERED
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	4	368	

06/2024
DATE:

WILSON & COMPANY 2155 W. 14th Street Tempe, Arizona 85281

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																												SHEET 4 SUB TOTAL
			18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	
M3000052	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	3,039	6,349	5,353	5,650	4,755	2,784	2,160	2,258	0	0	1,161	2,393	3,000	4,578	5,211	4,720	4,641	4,356	4,269	3,274	2,318	0	0	0	0	0	0	0	0	**72,270**
M3010001	SUBGRADE PREPARATION	SY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3010002	6" THICK LIME TREATED SUBGRADE (MAG 311)	SY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3100000	4" THICK AGGREGATE BASE COURSE (MAG 310)	TON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3210250	5" THICK ASPHALT CONCRETE SURFACE COURSE, TYPE C 3/4 (MAG 321)	TON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3260100	POLYMER MODIFIED ASPHALT CONCRETE SURFACE COURSE (1.5" THICK)	TON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3290100	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0**
M3400000	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3400009	DECORATIVE BRICK PAVERS, MAG STD DET 225	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3400240	CONCRETE VALLEY GUTTER & APRON, MAG STD DET 240	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3400400	CONCRETE SIDEWALK, COP STD DET P1230	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3400415	TRUNCATED DOMES FOR SIDEWALK RAMPS, COP STD DET P1232	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3400485	CONCRETE CURB RAMP, COP STD DET P1233, P1234, P1235, P1236, P1237,P1238, P1239, P1240, OR P1241 (6" IN)	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3400490	CONCRETE SIDEWALK RAMP, COP STD DETAIL P1241-2, P1241-4 (9" INCH)	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3400500	CONCRETE CURB RAMP, MCDOT STD DET 2022	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3400551	CONCRETE DRIVEWAY, RETURN TYPE, COP STD DET P1243	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3400553	CONCRETE DRIVEWAY ENTRANCE, COP STD DET P1244	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3400556	CONCRETE DRIVEWAY ENTRANCE, COP STD DET P1255-2	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3401256	CONCRETE BUS BAY PAVEMENT, COP STD DET P1256-1, 9" THICK, CLASS "A" CONCRETE	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3401260	PARKWAY BUS SHELTER/ACCESSORY PAD, COP STD DET P1260	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3401262	PARKWAY BUS SHELTER/ACCESSORY PAD, COP STD DET P1262	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3402201	CONCRETE CURB & GUTTER, MAG STD DET 220, TYPE "A", H=6"	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3402221	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE "A"	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3450020	ADJUST EX MANHOLE FRAME & COVER, MAG STD DET 422 & COP STD DET P1430	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3453006	ADJUST EX UTILITY VALVE, MAG STD DET 391-1 & 391-2	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3453008	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3453016	ADJUST SURVEY MONUMENT HANDHOLE FRAME & COVER, COP STD DET P1270	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3500010	REMOVE PORTLAND CEMENT CONCRETE SINGLE CURB, CURB & GUTTER, HEADER CURB OR EMBANKMENT CURB	LF	0	0	191	230	0	95	0	290	199	0	100	20	0	0	73	558	0	54	97	0	112	20	6	39	161	112	110	123	246	**2,836**
M3500020	REMOVE PORTLAND CEMENT CONCRETE SIDEWALK, DRIVEWAY,VALLEY GUTTER & SLAB	SF	0	0	1,556	1,706	618	1,155	0	2,133	2,574	0	1,758	215	87	0	288	3,417	0	622	1,321	0	1,265	110	28	0	1,633	3,322	1,998	2,045	3,314	**31,165**
M3500026	REMOVE DECORATIVE BRICK PAVERS	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	**100**
M3500036	REMOVE CATCH BASIN, BACKFILL & COMPACT	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	**1**
M3500037	REMOVE HEADWALL	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	4	0	0	0	0	0	**12**
M3500040	REMOVE PIPE, BACKFILL & COMPACT	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144	0	0	0	0	0	**144**
M3500041	REMOVE PIPE	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	21	20	0	0	0	0	0	**96**
M3500060	REMOVE ASPHALT CONCRETE PAVEMENT	SY	0	0	131	903	1,373	1,579	1,731	2,341	4,475	4,958	3,680	2,118	2,348	1,333	901	595	31	724	562	1,053	3,207	4,900	3,370	3,913	4,453	4,726	4,678	4,468	4,450	**69,000**
M3500062	ASPHALT SAWCUTTING	LF	0	0	343	1,082	1,002	1,044	500	640	0	0	308	522	852	1,000	1,060	837	54	974	822	1,500	929	0	0	64	91	87	79	0	82	**13,872**
M3500063	CONCRETE SAWCUTTING	LF	0	0	41	65	10	31	0	36	15	0	86	0	5	7	10	51	0	14	13	0	48	7	0	0	20	8	22	23	49	**561**
M3500109	REMOVE BLOCK WALL	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	**12**
M3500150	REMOVE TREE, 12" DIAMETER AND LARGER	EA	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	8	5	4	5	2	2	2	**31**
M3500170	REMOVE EXISTING BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	0	0	0	10	1	0	0	6	8	0	13	0	0	0	0	17	0	4	0	0	5	1	2	20	38	19	12	18	9	**183**
M4201006	REMOVE 6' CHAIN LINK FENCE	LF	0	0	0	0	0	449	500	500	500	500	500	407	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**3,356**
M4258008	GRAVEL MULCH, 4" THICK	SY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M4304007	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M6106003	REMOVE EXISTING FIRE HYDRANT	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	**2**
M6108010	NEW FIRE HYDRANT, COP STD DET P1359, P1360, P1361, P1362	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M7320292	ELECTRICAL CONDUIT (2-1.25") (PVC) (OPEN TRENCH) OR (BORED) OR (T-PATCH)	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M7320445	PULLBOX (NO.8) (CITY OF PHOENIX)	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M7320460	PULLBOX (NO.9) (CITY OF PHOENIX)	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M7320654	BREAK-AWAY CONNECTOR SYSTEM (WITH TAIL)	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M7320488	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M7320794	FIBER OPTIC SPLICE CLOSURE (CITY OF PHOENIX)	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M7370424	FIBER OPTIC EQUIPMENT (PHOENIX FIELD HARDENED ETHERNET SWITCH)	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**

GENERAL NOTES:

1. SEE DRAINAGE PLAN SHEETS FOR DRAINAGE QUANTITIES.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY QUANTITY SUMMARY

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. G-2.01
DATE: 06/24	DATE: 06/24	DATE: 06/24	4 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437GS01.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REGISTERED PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
CERTIFIED
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	5	368	

06/2024
DATE:

WILSON & COMPANY 2155 W. 14th Street Tempe, Arizona 85281

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																												SHEET 5 SUB TOTAL
			47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	63	65	67	69	71	73	75	77	79	81	83	85	87	89	
M3000052	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	0	0	0	0	0	0	0	2,613	4,740	4,484	4,838	4,791	4,995	975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**27,435**
M3010001	SUBGRADE PREPARATION	SY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	234	223	2,139	2,361	3,549	5,016	5,163	4,355	2,754	1,889	222	238	**28,215**
M3010002	6" THICK LIME TREATED SUBGRADE (MAG 311)	SY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	234	223	2,139	2,361	3,549	5,016	5,163	4,355	2,754	1,889	222	238	**28,215**
M3100000	4" THICK AGGREGATE BASE COURSE (MAG 310)	TON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	51	48	465	514	772	1,091	1,123	947	599	411	48	52	**6,137**
M3210250	5" THICK ASPHALT CONCRETE SURFACE COURSE, TYPE C 3/4 (MAG 321)	TON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	65	61	589	651	978	1,383	1,423	1,200	759	521	61	66	**7,777**
M3260100	POLYMER MODIFIED ASPHALT CONCRETE SURFACE COURSE (1.5" THICK)	TON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	251	525	449	486	411	415	374	480	415	427	456	426	404	397	451	**6,366**
M3290100	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01	2.12	1.83	2.04	1.73	2.38	2.29	3.12	3.34	3.44	3.29	2.63	2.26	1.67	1.90	**35.07**
M3400000	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	36	0	60	0	35	62	0	35	110	18	0	0	**374**
M3400009	DECORATIVE BRICK PAVERS, MAG STD DET 225	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	308	2,052	684	916	0	814	656	0	488	1,723	193	0	755	**8,589**
M3400240	CONCRETE VALLEY GUTTER & APRON, MAG STD DET 240	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	561	0	0	0	490	538	0	0	0	0	**1,589**
M3400400	CONCRETE SIDEWALK, COP STD DET P1230	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	373	106	314	2,498	2,840	3,520	3,020	2,130	2,383	2,956	2,069	0	486	**22,695**
M3400415	TRUNCATED DOMES FOR SIDEWALK RAMPS, COP STD DET P1232	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	80	0	40	0	40	0	0	40	0	0	0	0	**240**
M3400485	CONCRETE CURB RAMP, COP STD DET P1233, P1234, P1235, P1236, P1237,P1238, P1239, P1240, OR P1241 (6" IN)	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	870	2,082	0	700	0	1,232	0	0	499	0	0	0	0	**5,383**
M3400490	CONCRETE SIDEWALK RAMP, COP STD DETAIL P1241-2, P1241-4 (9" INCH)	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	282	0	0	282	0	282	0	0	282	0	0	0	0	**1,128**
M3400500	CONCRETE CURB RAMP, MCDOT STD DET 2022	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	528	0	0	0	0	**528**
M3400551	CONCRETE DRIVEWAY, RETURN TYPE, COP STD DET P1243	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,127	792	0	0	0	0	0	**2,919**
M3400553	CONCRETE DRIVEWAY ENTRANCE, COP STD DET P1244	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3400556	CONCRETE DRIVEWAY ENTRANCE, COP STD DET P1255-2	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	345	0	0	0	**345**
M3401256	CONCRETE BUS BAY PAVEMENT, COP STD DET P1256-1, 9" THICK, CLASS "A" CONCRETE	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	471	2,273	0	0	0	0	0	0	**2,744**
M3401260	PARKWAY BUS SHELTER/ACCESSORY PAD, COP STD DET P1260	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3401262	PARKWAY BUS SHELTER/ACCESSORY PAD, COP STD DET P1262	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	757	761	0	0	752	752	0	1,514	0	0	0	0	**4,536**
M3402201	CONCRETE CURB & GUTTER, MAG STD DET 220, TYPE "A", H=6"	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	189	231	0	541	500	721	500	426	598	500	400	0	71	**4,677**
M3402221	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE "A"	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123	800	1,002	809	1,000	811	983	1,001	706	707	888	1,000	1,001	**10,831**
M3450020	ADJUST EX MANHOLE FRAME & COVER, MAG STD DET 422 & COP STD DET P1430	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	5	3	1	1	1	1	0	0	0	1	0	3	1	**22**
M3453006	ADJUST EX UTILITY VALVE, MAG STD DET 391-1 & 391-2	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	**2**
M3453008	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	6	0	5	0	5	1	5	5	6	1	5	0	**47**
M3453016	ADJUST SURVEY MONUMENT HANDHOLE FRAME & COVER, COP STD DET P1270	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	**3**
M3500010	REMOVE PORTLAND CEMENT CONCRETE SINGLE CURB, CURB & GUTTER, HEADER CURB OR EMBANKMENT CURB	LF	0	0	320	0	172	0	168	225	0	0	0	0	489	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1,374**
M3500020	REMOVE PORTLAND CEMENT CONCRETE SIDEWALK, DRIVEWAY,VALLEY GUTTER & SLAB	SF	0	419	1,990	0	2,674	2,500	3,436	1,279	0	226	391	1,332	4,738	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**18,985**
M3500026	REMOVE DECORATIVE BRICK PAVERS	SF	0	27	0	0	0	0	0	216	0	0	0	0	254	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**497**
M3500036	REMOVE CATCH BASIN, BACKFILL & COMPACT	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3500037	REMOVE HEADWALL	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3500040	REMOVE PIPE, BACKFILL & COMPACT	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3500041	REMOVE PIPE	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3500060	REMOVE ASPHALT CONCRETE PAVEMENT	SY	4,430	4,490	5,274	4,537	4,877	5,091	5,135	2,556	0	0	0	0	404	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**36,829**
M3500062	ASPHALT SAWCUTTING	LF	0	0	131	0	80	0	66	395	0	0	0	0	717	196	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1,585**
M3500063	CONCRETE SAWCUTTING	LF	0	10	77	0	43	0	43	120	0	5	43	15	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**394**
M3500109	REMOVE BLOCK WALL	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3500150	REMOVE TREE, 12" DIAMETER AND LARGER	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M3500170	REMOVE EXISTING BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	13	7	0	0	5	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**34**
M4201006	REMOVE 6' CHAIN LINK FENCE	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M4258008	GRAVEL MULCH, 4" THICK	SY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M4304007	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,018	4,664	4,668	5,007	4,400	4,670	4,569	4,881	0	0	**36,877**
M6106003	REMOVE EXISTING FIRE HYDRANT	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M6108010	NEW FIRE HYDRANT, COP STD DET P1359, P1360, P1361, P1362	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**
M7320292	ELECTRICAL CONDUIT (2-1.25") (PVC) (OPEN TRENCH) OR (BORED) OR (T-PATCH)	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	252	550	550	550	550	550	550	715	550	550	550	550	550	550	550	**8,117**
M7320445	PULLBOX (NO.8) (CITY OF PHOENIX)	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	0	1	1	0	1	**7**
M7320460	PULLBOX (NO.9) (CITY OF PHOENIX)	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	2	0	0	0	0	**5**
M7320654	BREAK-AWAY CONNECTOR SYSTEM (WITH TAIL)	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	2	0	0	0	0	**4**
M7320488	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	352	550	600	650	550	600	550	915	550	600	650	600	600	550	600	**8,917**
M7320794	FIBER OPTIC SPLICE CLOSURE (CITY OF PHOENIX)	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	1	0	0	0	0	**4**
M7370424	FIBER OPTIC EQUIPMENT (PHOENIX FIELD HARDENED ETHERNET SWITCH)	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	1	0	0	0	0	**4**

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

GENERAL NOTES:

1. SEE DRAINAGE PLAN SHEETS FOR DRAINAGE QUANTITIES.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY QUANTITY SUMMARY

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. G-2.02
DATE: 06/24	DATE: 06/24	DATE: 06/24	5 OF 364

SHEET NAME: ST85100437QS02.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REGISTERED PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
CERTIFIED
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	6	368	

06/2024
DATE:

WILSON & COMPANY 2155 W. 14th Street Tempe, Arizona 85281

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

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NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																													TOTAL QTY
			91	93	95	97	99	101	103	105	107	109	111	113	115	117	119	121	123	125	127	129	131	133	135	137	139	141	143	145	146	
M3000052	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	458	**100,164**
M3010001	SUBGRADE PREPARATION	SY	581	11	241	981	1,174	3,646	4,872	4,236	4,679	4,413	4,607	4,544	4,385	4,433	4,051	4,180	5,231	4,097	4,589	4,406	4,877	2,630	0	0	0	0	392	164	48	**105,682**
M3010002	6" THICK LIME TREATED SUBGRADE (MAG 311)	SY	581	11	241	981	1,174	3,646	4,872	4,236	4,679	4,413	4,607	4,544	4,385	4,433	4,051	4,180	5,231	4,097	4,589	4,406	4,877	2,630	0	0	0	0	392	164	48	**105,682**
M3100000	4" THICK AGGREGATE BASE COURSE (MAG 310)	TON	126	2	52	213	255	793	1,060	921	1,018	960	1,002	988	954	964	881	909	1,138	891	998	958	1,061	572	0	0	0	0	85	36	10	**22,986**
M3210250	5" THICK ASPHALT CONCRETE SURFACE COURSE, TYPE C 3/4 (MAG 321)	TON	160	3	66	270	324	1,005	1,343	1,167	1,290	1,216	1,270	1,252	1,209	1,222	1,117	1,152	1,442	1,129	1,265	1,214	1,344	725	0	0	0	0	108	45	13	**29,129**
M3260100	POLYMER MODIFIED ASPHALT CONCRETE SURFACE COURSE (1.5" THICK)	TON	438	385	380	434	368	493	403	350	387	365	381	376	363	367	335	346	433	339	379	364	403	434	392	371	400	396	446	94	42	**17,028**
M3290100	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.96	1.56	1.61	2.08	1.87	3.20	3.25	2.82	3.12	2.94	3.07	3.03	2.92	2.96	2.70	2.79	3.49	2.73	3.06	2.94	3.25	2.62	1.58	1.49	1.61	1.60	1.93	0.44	0.18	**103.87**
M3400000	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	36	28	17	29	0	34	0	19	20	40	20	20	20	0	20	20	0	20	38	21	17	34	0	0	0	0	34	0	0	**861**
M3400009	DECORATIVE BRICK PAVERS, MAG STD DET 225	SF	7	127	686	409	71	653	364	135	185	339	173	157	153	0	173	215	0	157	260	418	409	447	0	0	0	0	0	0	0	**14,127**
M3400240	CONCRETE VALLEY GUTTER & APRON, MAG STD DET 240	SF	425	0	0	0	0	0	0	0	511	595	960	815	0	531	0	0	0	0	496	0	0	0	0	0	0	0	998	0	0	**6,920**
M3400400	CONCRETE SIDEWALK, COP STD DET P1230	SF	1,545	0	0	1,907	2,500	1,933	4,700	7,515	5,409	3,175	2,275	651	1,105	1,641	0	423	224	0	724	2,500	2,077	0	0	0	0	1,343	1,572	0	0	**65,914**
M3400415	TRUNCATED DOMES FOR SIDEWALK RAMPS, COP STD DET P1232	SF	20	0	20	60	0	80	0	0	80	40	20	40	0	40	0	0	80	0	40	0	40	0	0	0	0	0	80	0	0	**880**
M3400485	CONCRETE CURB RAMP, COP STD DET P1233, P1234, P1235, P1236, P1237,P1238, P1239, P1240, OR P1241 (6" IN)	SF	636	0	856	991	0	2,870	0	0	1,227	723	614	1,126	0	820	0	0	2,439	0	916	0	800	0	0	0	0	0	2,531	0	61	**21,993**
M3400490	CONCRETE SIDEWALK RAMP, COP STD DETAIL P1241-2, P1241-4 (9" INCH)	SF	0	0	0	0	0	0	0	0	0	219	0	0	0	80	0	0	0	0	294	0	282	0	0	0	0	0	0	0	0	**2,003**
M3400500	CONCRETE CURB RAMP, MCDOT STD DET 2022	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**528**
M3400551	CONCRETE DRIVEWAY, RETURN TYPE, COP STD DET P1243	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2,919**
M3400553	CONCRETE DRIVEWAY ENTRANCE, COP STD DET P1244	SF	0	0	0	0	0	0	0	0	0	0	0	0	828	308	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1,136**
M3400556	CONCRETE DRIVEWAY ENTRANCE, COP STD DET P1255-2	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	700	0	0	**1,045**
M3401256	CONCRETE BUS BAY PAVEMENT, COP STD DET P1256-1, 9" THICK, CLASS "A" CONCRETE	SF	0	0	0	0	0	290	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**3,034**
M3401260	PARKWAY BUS SHELTER/ACCESSORY PAD, COP STD DET P1260	SF	497	0	0	500	0	0	0	0	797	0	0	0	0	594	0	0	496	0	497	0	0	0	0	0	0	0	0	0	0	**3,381**
M3401262	PARKWAY BUS SHELTER/ACCESSORY PAD, COP STD DET P1262	SF	0	0	0	0	0	200	708	0	0	0	0	741	0	0	0	0	0	0	761	0	0	563	0	566	686	0	0	0	0	**8,761**
M3402201	CONCRETE CURB & GUTTER, MAG STD DET 220, TYPE "A", H=6"	LF	183	0	53	576	500	590	523	1,001	1,000	610	61	112	123	245	0	0	326	0	171	0	168	0	0	0	0	0	152	0	7	**11,078**
M3402221	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE "A"	LF	20	48	906	113	1,001	463	1,001	822	150	369	445	454	201	0	794	607	0	1,002	562	1,004	607	322	0	0	0	0	30	0	15	**21,767**
M3450020	ADJUST EX MANHOLE FRAME & COVER, MAG STD DET 422 & COP STD DET P1430	EA	3	1	0	2	0	1	2	1	2	2	4	0	0	1	0	0	3	2	1	0	0	2	0	1	4	0	6	0	0	**60**
M3453006	ADJUST EX UTILITY VALVE, MAG STD DET 391-1 & 391-2	EA	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**4**
M3453008	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	8	3	5	5	0	6	1	0	6	2	2	5	2	3	0	1	5	1	5	1	2	5	0	0	4	4	14	0	0	**137**
M3453016	ADJUST SURVEY MONUMENT HANDHOLE FRAME & COVER, COP STD DET P1270	EA	1	0	0	1	0	1	0	0	1	0	1	0	0	1	0	0	2	0	0	0	0	1	0	0	0	0	1	0	0	**13**
M3500010	REMOVE PORTLAND CEMENT CONCRETE SINGLE CURB, CURB & GUTTER, HEADER CURB OR EMBANKMENT CURB	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	**4,320**
M3500020	REMOVE PORTLAND CEMENT CONCRETE SIDEWALK, DRIVEWAY,VALLEY GUTTER & SLAB	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	**50,238**
M3500026	REMOVE DECORATIVE BRICK PAVERS	SF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113	**710**
M3500036	REMOVE CATCH BASIN, BACKFILL & COMPACT	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**
M3500037	REMOVE HEADWALL	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**12**
M3500040	REMOVE PIPE, BACKFILL & COMPACT	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**144**
M3500041	REMOVE PIPE	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**96**
M3500060	REMOVE ASPHALT CONCRETE PAVEMENT	SY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	**105,858**
M3500062	ASPHALT SAWCUTTING	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123	**15,580**
M3500063	CONCRETE SAWCUTTING	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	**969**
M3500109	REMOVE BLOCK WALL	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**12**
M3500150	REMOVE TREE, 12" DIAMETER AND LARGER	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**31**
M3500170	REMOVE EXISTING BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**217**
M4201006	REMOVE 6' CHAIN LINK FENCE	LF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**3,356**
M4258008	GRAVEL MULCH, 4" THICK	SY	0	0	0	20	0	23	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**66**
M4304007	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	353	0	0	0	0	0	0	0	0	2,812	4,176	4,066	5,007	3,104	5,005	5,014	394	0	0	0	0	0	0	0	0	0	0	0	3,445	**70,253**
M6106003	REMOVE EXISTING FIRE HYDRANT	EA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
M6108010	NEW FIRE HYDRANT, COP STD DET P1359, P1360, P1361, P1362	EA	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
M7320292	ELECTRICAL CONDUIT (2-1.25") (PVC) (OPEN TRENCH) OR (BORED) OR (T-PATCH)	LF	550	550	550	550	550	550	552	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	407	0	0	**22,826**
M7320445	PULLBOX (NO.8) (CITY OF PHOENIX)	EA	0	1	1	0	0	0	0	1	1	1	0	0	1	1	0	1	0	1	2	0	1	0	1	0	0	1	0	0	0	**21**
M7320460	PULLBOX (NO.9) (CITY OF PHOENIX)	EA	1	0	0	1	0	1	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	1	0	0	1	0	1	0	0	**16**
M7320654	BREAK-AWAY CONNECTOR SYSTEM (WITH TAIL)	EA	1	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	1	0	0	1	0	1	0	0	**13**
M7320488	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	650	600	600	650	550	650	552	600	600	600	650	650	600	600	550	600	650	600	650	550	600	650	600	550	650	600	507	0	0	**25,226**
M7320794	FIBER OPTIC SPLICE CLOSURE (CITY OF PHOENIX)	EA	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	1	0	0	1	0	1	0	0	**12**
M7370424	FIBER OPTIC EQUIPMENT (PHOENIX FIELD HARDENED ETHERNET SWITCH)	EA	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	1	0	0	**11**

GENERAL NOTES:

1. SEE DRAINAGE PLAN SHEETS FOR DRAINAGE QUANTITIES.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY QUANTITY SUMMARY

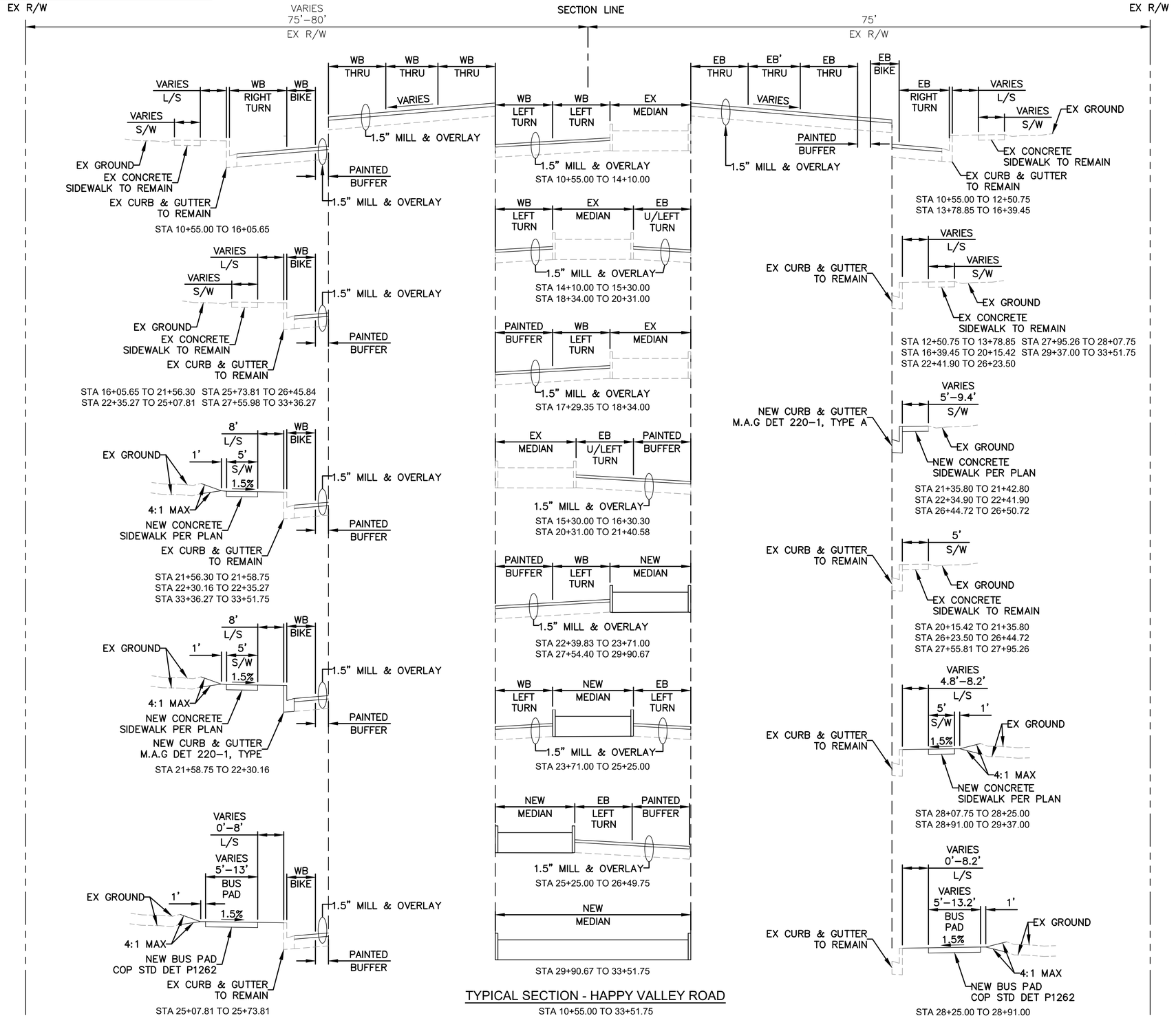
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. G-2.03
DATE: 06/24	DATE: 06/24	DATE: 06/24	6 OF 364

SHEET NAME: ST85100437QS03.DWG, PLOT DATE: 6/18/2024

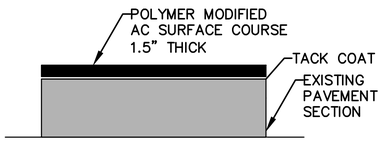
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



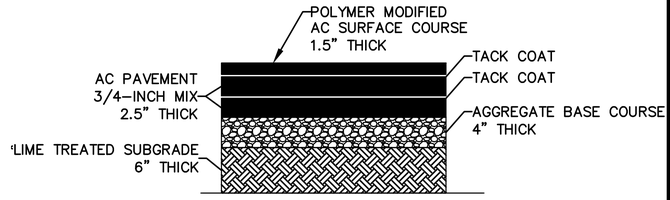
TYPICAL SECTION - HAPPY VALLEY ROAD
STA 10+55.00 TO 33+51.75

GENERAL NOTES:

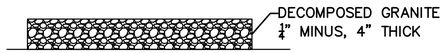
1. FOR TRAVEL LANE, BIKE LANE, AND PAINTED BUFFER WIDTH DIMENSIONS REFERENCE THE PAINT & SIGN PLANS.
2. FOR MEDIAN WIDTH DIMENSIONS/ADDITIONAL MEDIAN INFORMATION REFERENCE THE ROADWAY PLAN SHEETS.



TOTAL THICKNESS = 1.5"
MILL & OVERLAY



TOTAL THICKNESS = 16.5"
PAVEMENT STRUCTURAL SECTION NO. 1
*LIME TREATMENT IS NOT REQUIRED IN 2' WIDE PAVEMENT SECTIONS DUE CURB/VG IMPROVEMENTS.



TOTAL THICKNESS = 4"
MULTIPURPOSE TRAIL - DG



TOTAL THICKNESS = 4"
MULTIPURPOSE TRAIL - CONCRETE

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TYPICAL SECTIONS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. G–3.01
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: NTS			7 OF 364

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	7	368	

06/2024 DATE:

36634 TODD J. CENCIMINO — ARIZONA U.S.A.

WILSON & COMPANY

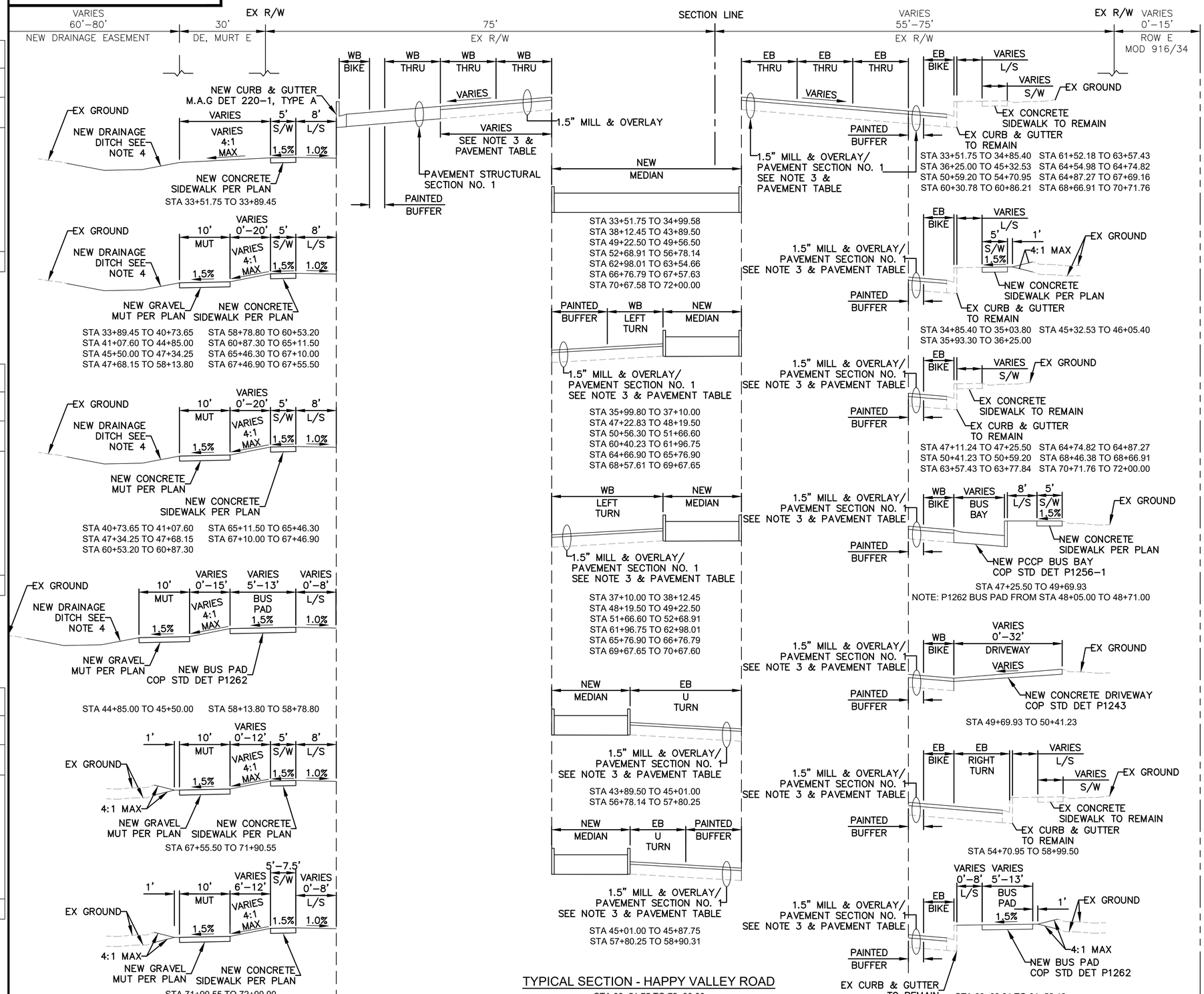
DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

SHEET NAME: ST85100437_TY01.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



TYPICAL SECTION - HAPPY VALLEY ROAD
STA 33+51.75 TO 72+00.00

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	8	368	

05/2024 DATE:

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO REGISTERED ARIZONA U.S.A.

WILSON & COMPANY

GENERAL NOTES:

1. FOR TRAVEL LANE, BIKE LANE, AND PAINTED BUFFER WIDTH DIMENSIONS REFERENCE THE PAINT & SIGN PLANS.
2. FOR MEDIAN WIDTH DIMENSIONS/ADDITIONAL MEDIAN INFORMATION REFERENCE THE ROADWAY PLAN SHEETS.
3. FOR INFORMATION ON THE PAVEMENT SECTION LIMITS REFERENCE THE ROADWAY PLAN SHEETS.
4. FOR DRAINAGE DITCH DETAILS REFERENCE THE DRAINAGE PLAN SHEETS.

PAVEMENT TABLE		
STATION RANGE	LEFT PAVEMENT	RIGHT PAVEMENT
33+51.75 TO 34+80.00	PAVEMENT OVERLAY & PAVEMENT SECTION NO. 1	PAVEMENT OVERLAY
33+80.00 TO 47+11.25	PAVEMENT SECTION NO. 1	PAVEMENT OVERLAY
47+11.25 TO 60+30.90	PAVEMENT SECTION NO. 1	PAVEMENT SECTION NO. 1
60+30.90 TO 71+00.00	PAVEMENT SECTION NO. 1	PAVEMENT OVERLAY
71+00.00 TO 72+00.00	PAVEMENT OVERLAY & PAVEMENT SECTION NO. 1	PAVEMENT OVERLAY

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TYPICAL SECTIONS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

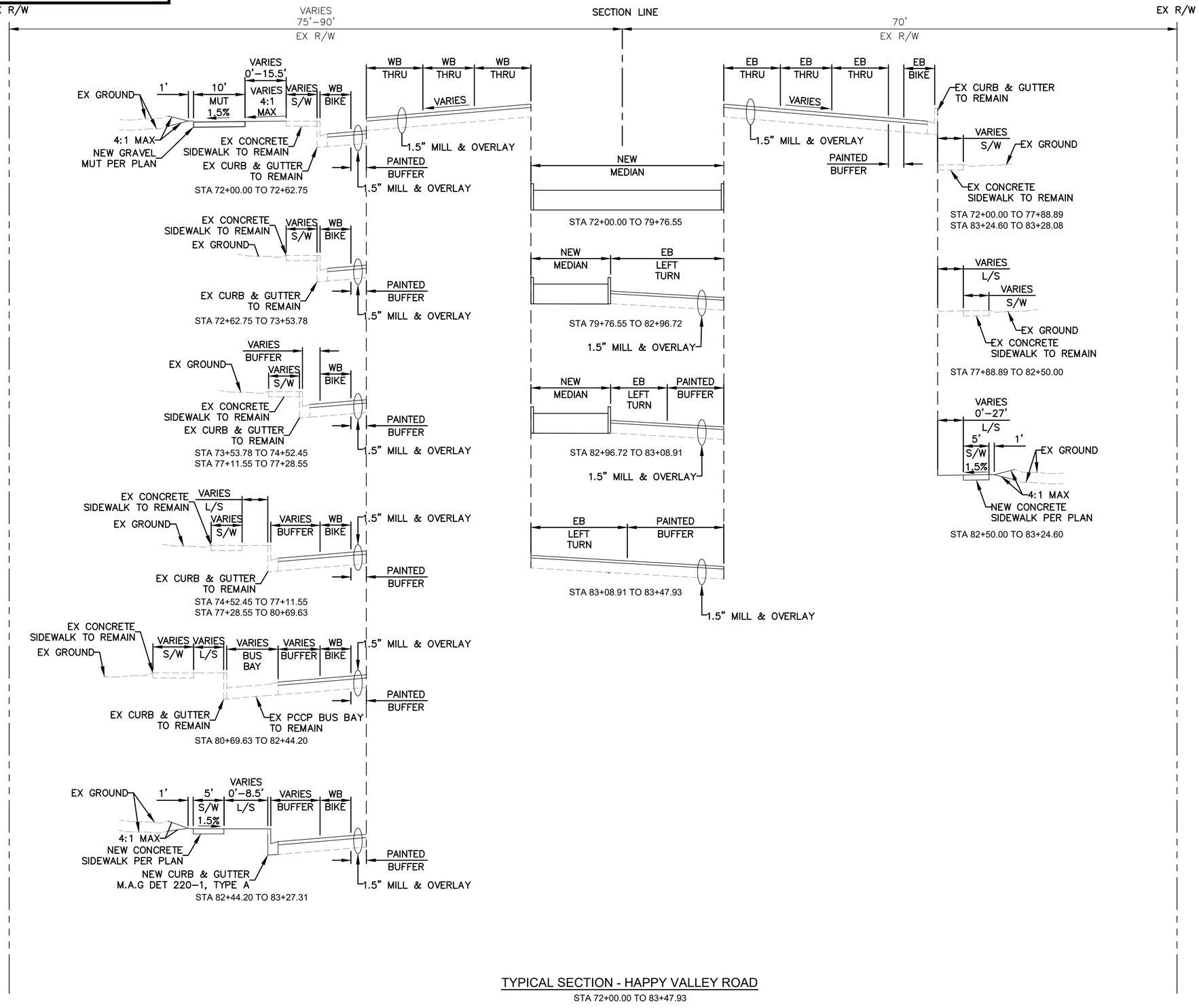
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. G–3.02
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: NTS			8 OF 364

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437_TY02.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



TYPICAL SECTION - HAPPY VALLEY ROAD
STA 72+00.00 TO 83+47.93

GENERAL NOTES:

1. FOR TRAVEL LANE, BIKE LANE, AND PAINTED BUFFER WIDTH DIMENSIONS REFERENCE THE PAINT & SIGN PLANS.
2. FOR MEDIAN WIDTH DIMENSIONS/ADDITIONAL MEDIAN INFORMATION REFERENCE THE ROADWAY PLAN SHEETS.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

36634
TODD J.
CENCIMINO
REGISTERED ENGINEER
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	9	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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TYPICAL SECTIONS

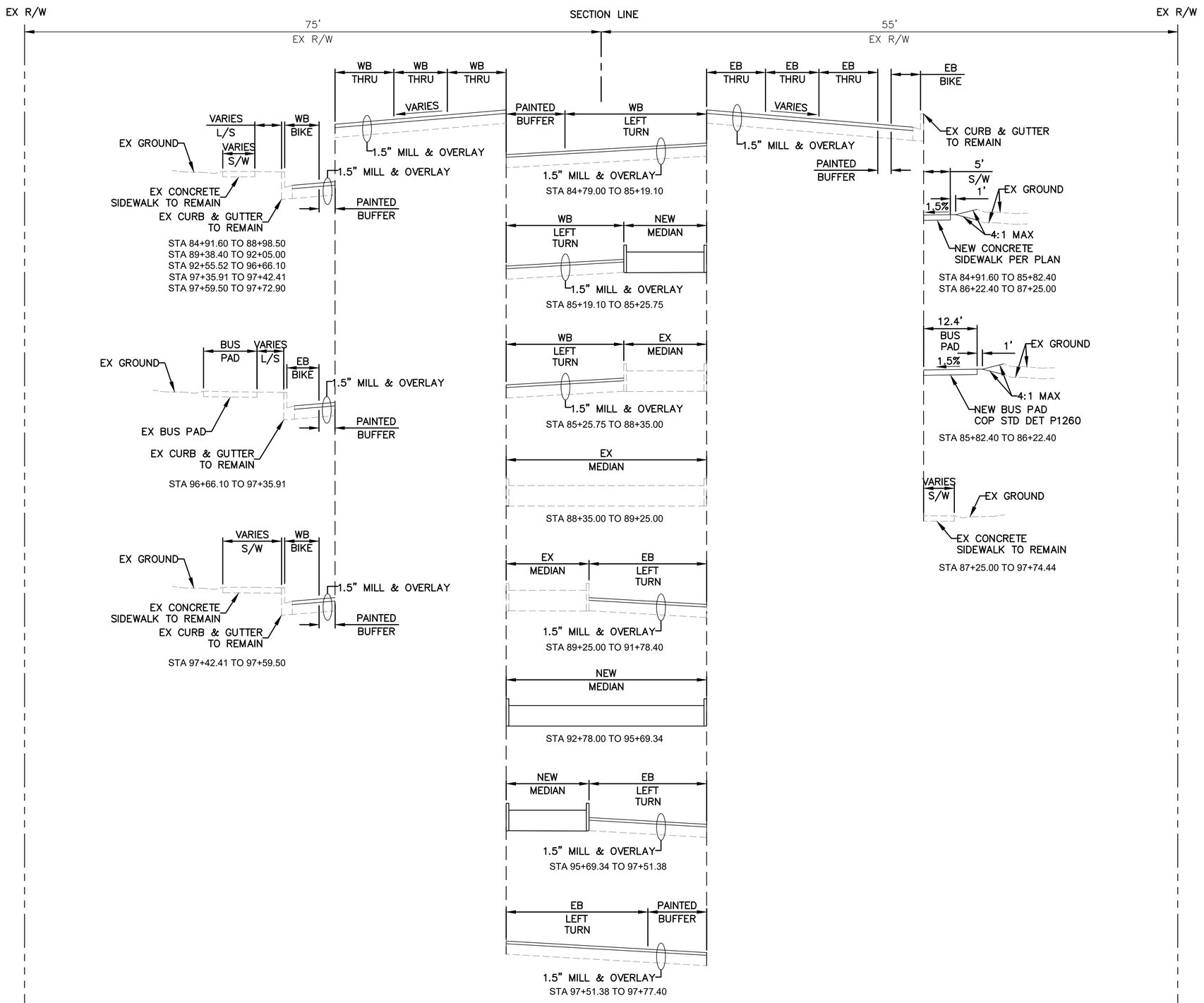
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. G–3.03
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: NTS			9 OF 364

SHEET NAME: ST85100437_TY03.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



TYPICAL SECTION - HAPPY VALLEY ROAD

STA 84+79.00 TO 97+77.40

GENERAL NOTES:

1. FOR TRAVEL LANE, BIKE LANE, AND PAINTED BUFFER WIDTH DIMENSIONS REFERENCE THE PAINT & SIGN PLANS.
2. FOR MEDIAN WIDTH DIMENSIONS/ADDITIONAL MEDIAN INFORMATION REFERENCE THE ROADWAY PLAN SHEETS.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	10	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

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NO.	DESCRIPTION	REV BY	CKD BY	DATE

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TYPICAL SECTIONS

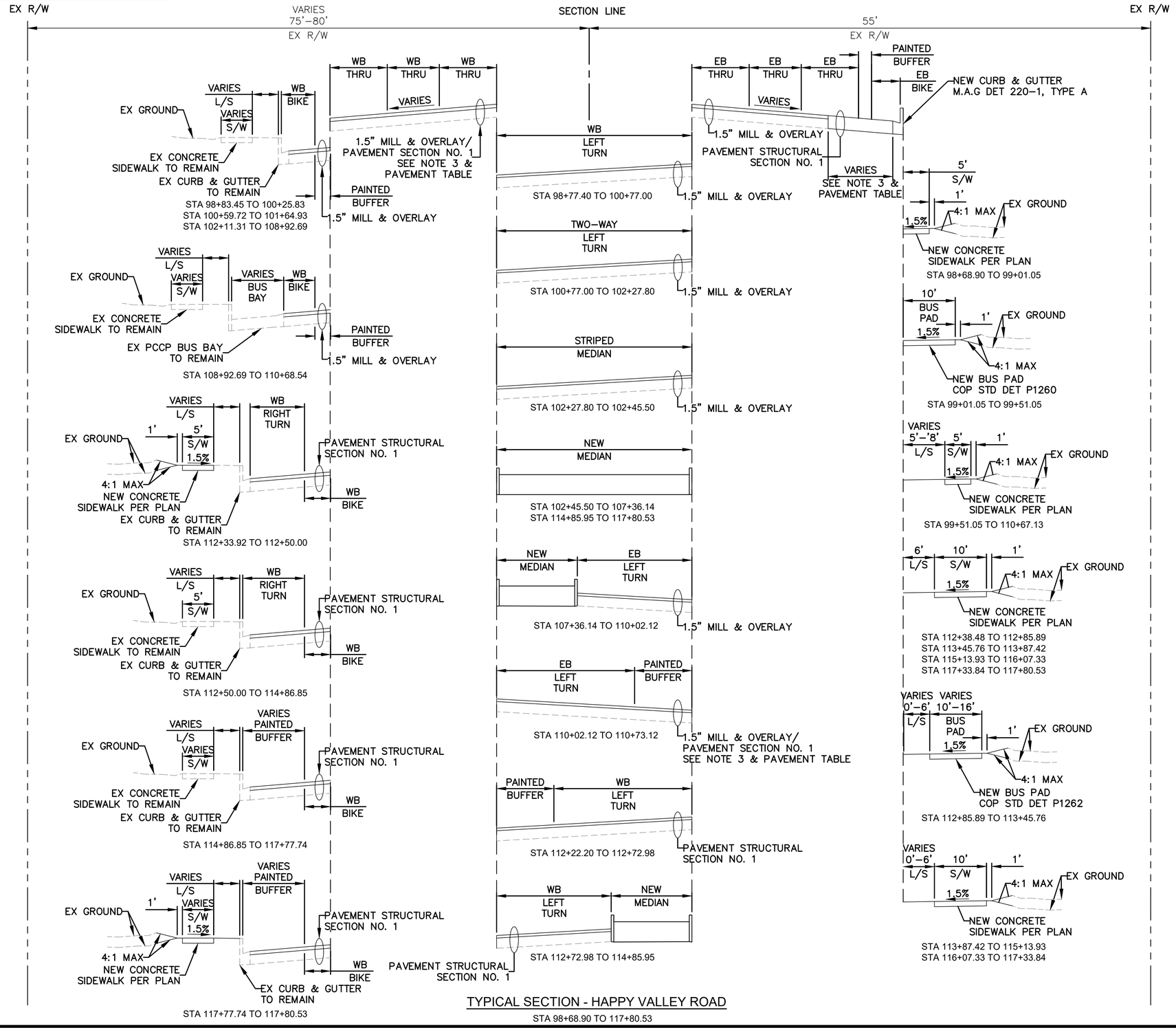
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. G-3.04
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: NTS			10 OF 364

SHEET NAME: ST85100437_TY04.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



TYPICAL SECTION - HAPPY VALLEY ROAD
STA 98+68.90 TO 117+80.53

GENERAL NOTES:

1. FOR TRAVEL LANE, BIKE LANE, AND PAINTED BUFFER WIDTH DIMENSIONS REFERENCE THE PAINT & SIGN PLANS.
2. FOR MEDIAN WIDTH DIMENSIONS/ADDITIONAL MEDIAN INFORMATION REFERENCE THE ROADWAY PLAN SHEETS.
3. FOR INFORMATION ON THE PAVEMENT SECTION LIMITS REFERENCE THE ROADWAY PLAN SHEETS.

PAVEMENT TABLE		
STATION RANGE	LEFT PAVEMENT	RIGHT PAVEMENT
98+68.90 TO 110+68.50	PAVEMENT OVERLAY	PAVEMENT OVERLAY & PAVEMENT SECTION NO. 1
110+68.50 TO 117+80.53	PAVEMENT SECTION NO. 1	PAVEMENT SECTION NO. 1

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	11	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

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TYPICAL SECTIONS

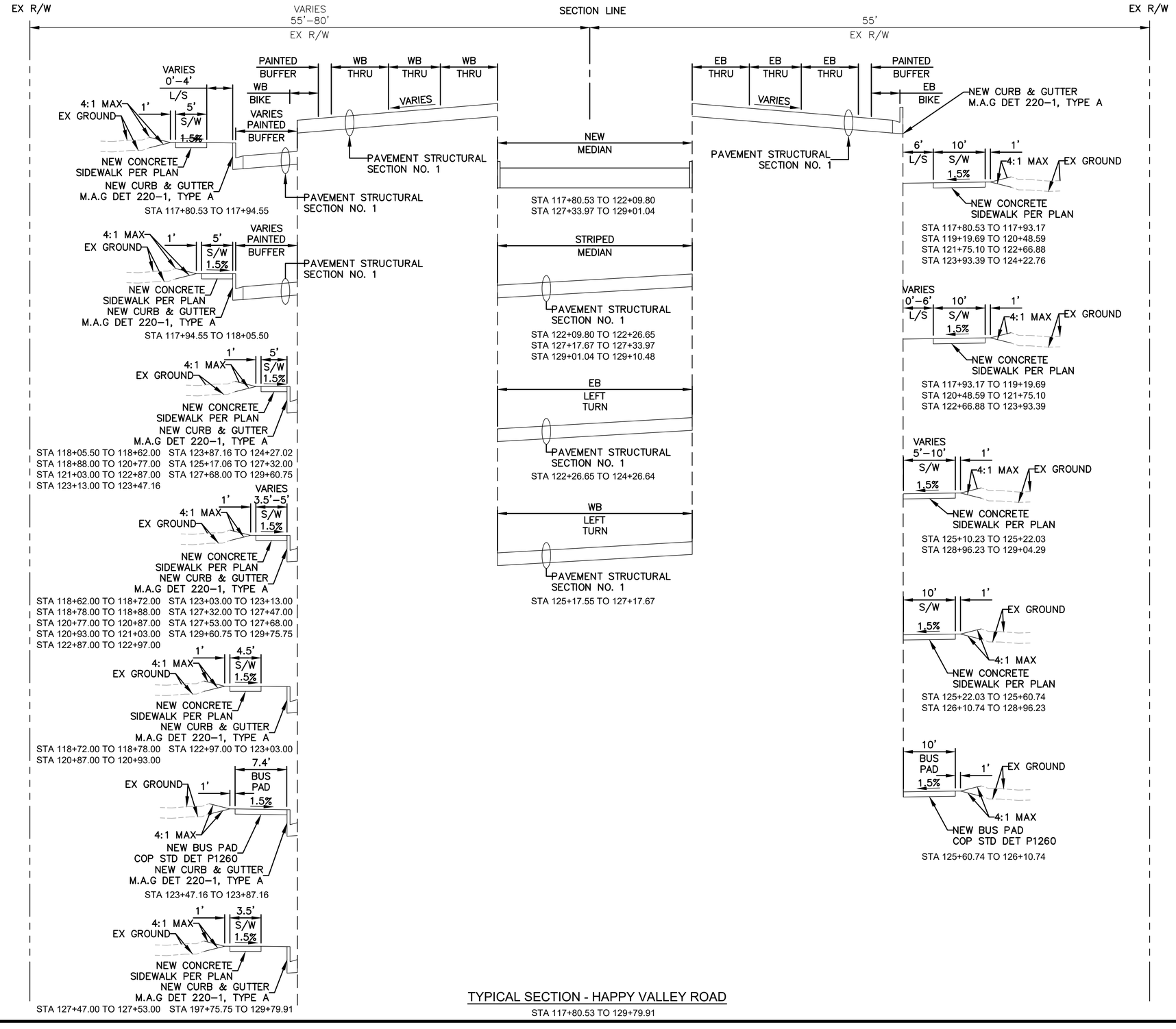
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. G–3.05
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: NTS			11 OF 364

SHEET NAME: ST85100437_TY05.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



TYPICAL SECTION - HAPPY VALLEY ROAD
STA 117+80.53 TO 129+79.91

GENERAL NOTES:

1. FOR TRAVEL LANE, BIKE LANE, AND PAINTED BUFFER WIDTH DIMENSIONS REFERENCE THE PAINT & SIGN PLANS.
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3. FOR INFORMATION ON THE PAVEMENT SECTION LIMITS REFERENCE THE ROADWAY PLAN SHEETS.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	12	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

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TYPICAL SECTIONS

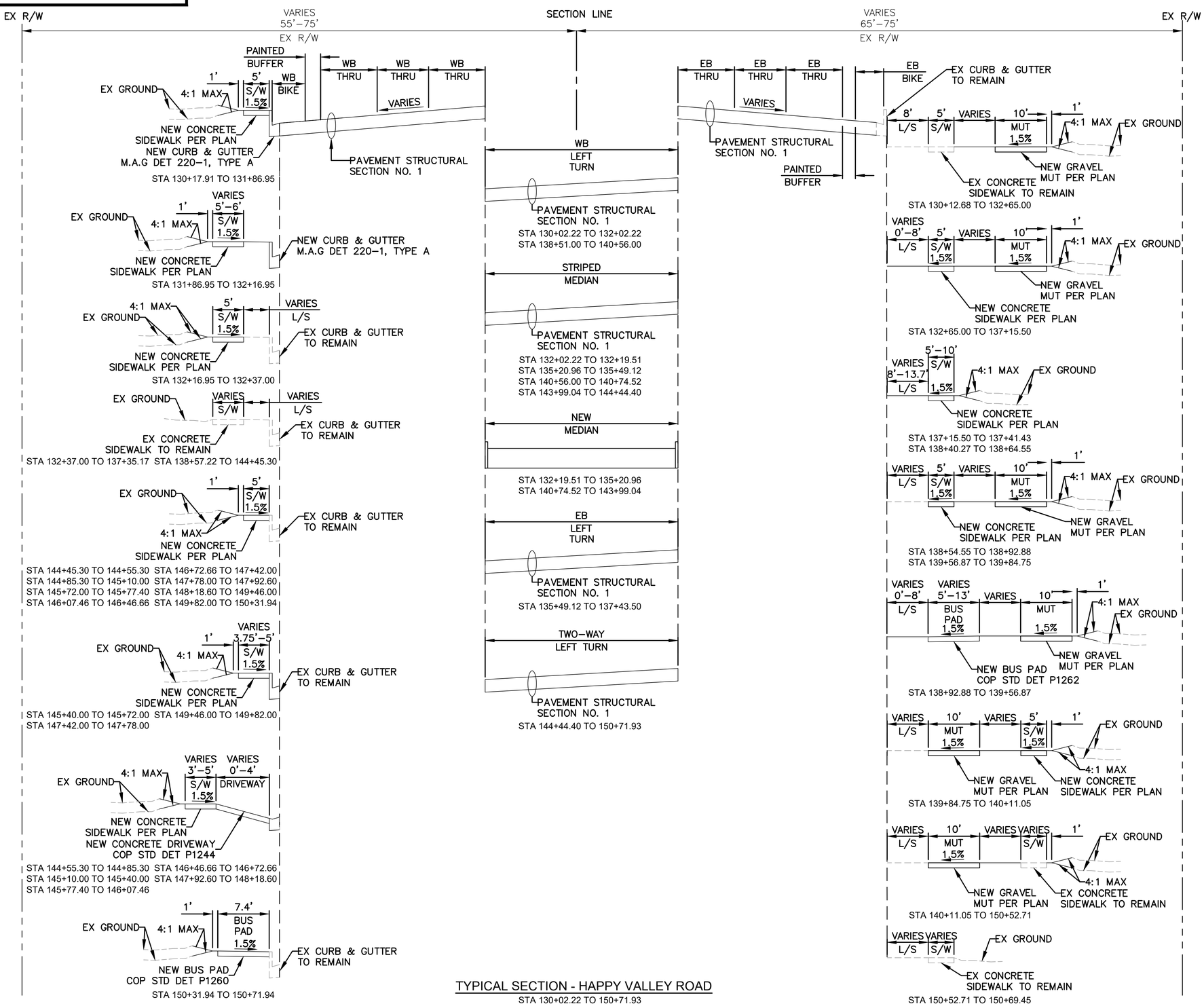
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. G–3.06
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: NTS			12 OF 364

SHEET NAME: ST85100437_TY06.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



TYPICAL SECTION - HAPPY VALLEY ROAD

STA 130+02.22 TO 150+71.93

GENERAL NOTES:

1. FOR TRAVEL LANE, BIKE LANE, AND PAINTED BUFFER WIDTH DIMENSIONS REFERENCE THE PAINT & SIGN PLANS.
2. FOR MEDIAN WIDTH DIMENSIONS/ADDITIONAL MEDIAN INFORMATION REFERENCE THE ROADWAY PLAN SHEETS.
3. FOR INFORMATION ON THE PAVEMENT SECTION LIMITS REFERENCE THE ROADWAY PLAN SHEETS.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

36634
TODD J. CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	13	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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TYPICAL SECTIONS

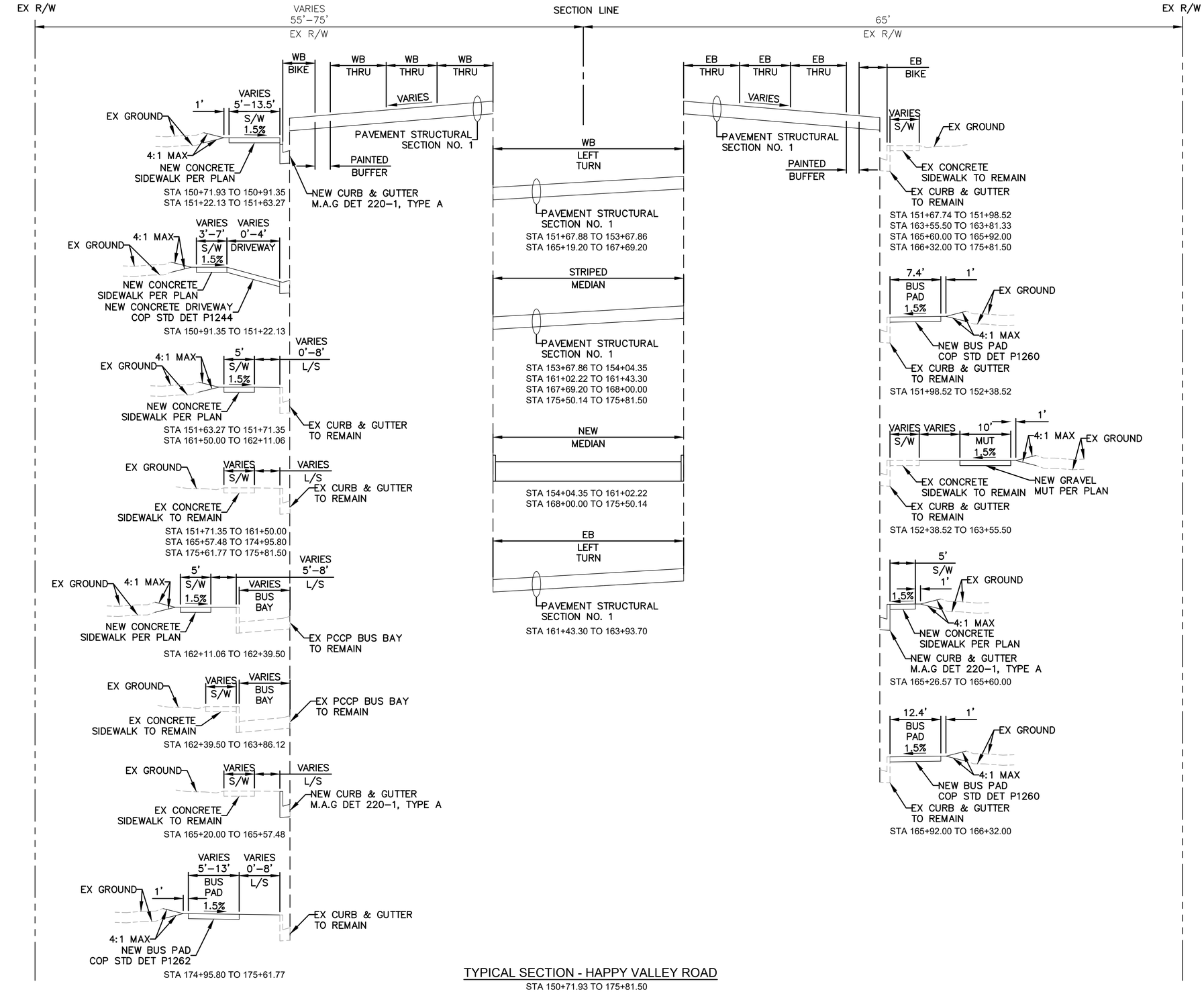
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. G–3.07
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: NTS			13 OF 364

SHEET NAME: ST85100437_TY07.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



TYPICAL SECTION - HAPPY VALLEY ROAD
STA 150+71.93 TO 175+81.50

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	14	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

GENERAL NOTES:

1. FOR TRAVEL LANE, BIKE LANE, AND PAINTED BUFFER WIDTH DIMENSIONS REFERENCE THE PAINT & SIGN PLANS.
2. FOR MEDIAN WIDTH DIMENSIONS/ADDITIONAL MEDIAN INFORMATION REFERENCE THE ROADWAY PLAN SHEETS.

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TYPICAL SECTIONS

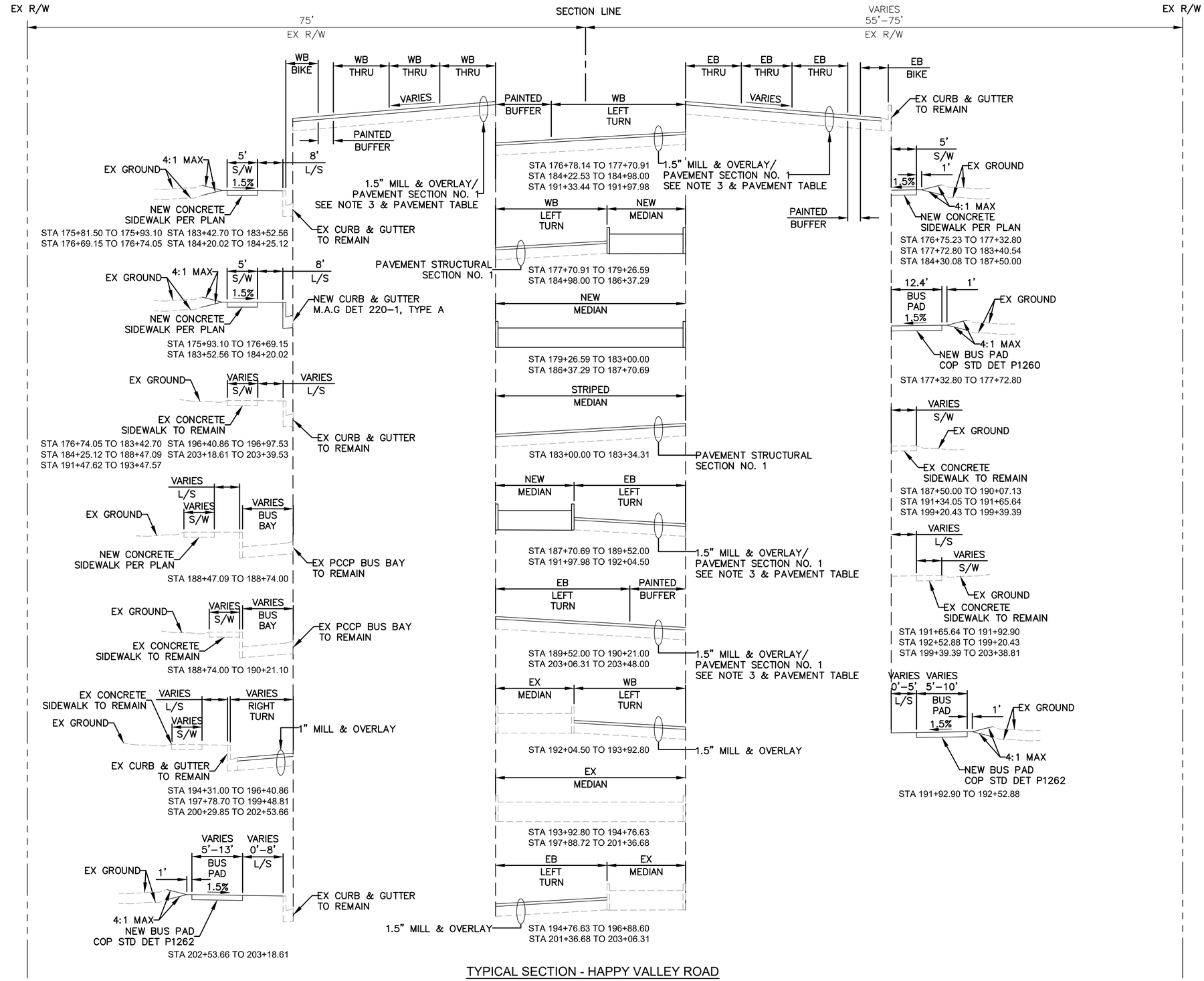
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. G–3.08
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: NTS			14 OF 364

SHEET NAME: ST85100437_TY08.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



TYPICAL SECTION - HAPPY VALLEY ROAD
STA 175+81.50 TO 203+48.00

REVISION BY CITY OF PHOENIX				
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX				
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX				
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

GENERAL NOTES:

1. FOR TRAVEL LANE, BIKE LANE, AND PAINTED BUFFER WIDTH DIMENSIONS REFERENCE THE PAINT & SIGN PLANS.
2. FOR MEDIAN WIDTH DIMENSIONS/ADDITIONAL MEDIAN INFORMATION REFERENCE THE ROADWAY PLAN SHEETS.
3. FOR INFORMATION ON THE PAVEMENT SECTION LIMITS REFERENCE THE ROADWAY PLAN SHEETS.

PAVEMENT TABLE		
STATION RANGE	LEFT PAVEMENT	RIGHT PAVEMENT
175+81.50 TO 190+21.20	PAVEMENT SECTION NO. 1	PAVEMENT SECTION NO. 1
190+21.20 TO 203+48.00	PAVEMENT OVERLAY	PAVEMENT OVERLAY

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	15	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REGISTERED PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
ARIZONA U.S.A.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

TYPICAL SECTIONS

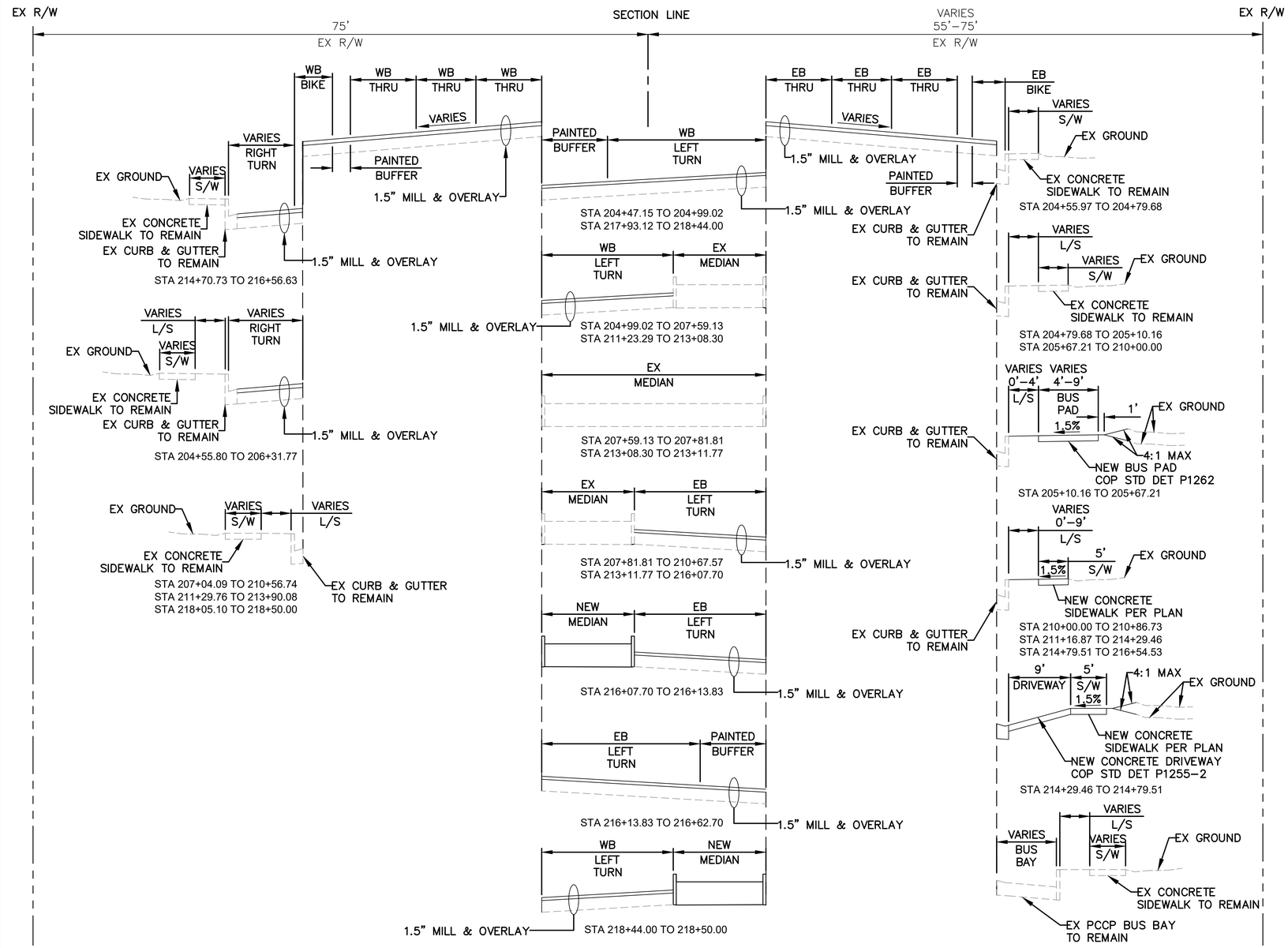
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

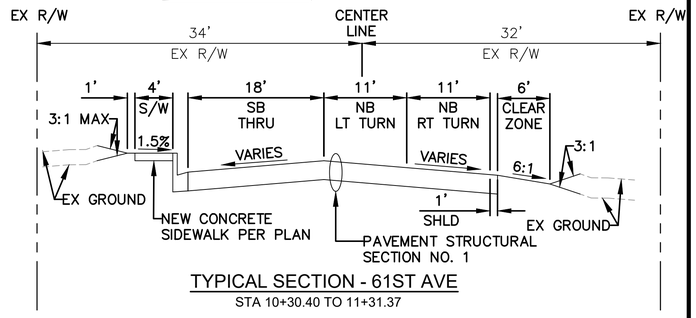
DR: RJN	DES: ASF	CK: TJC	DWG. NO. G–3.09
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: NTS			15 OF 364

SHEET NAME: ST85100437_TY09.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

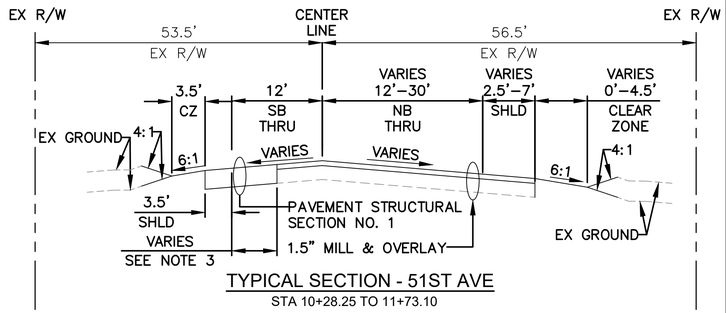


TYPICAL SECTION - HAPPY VALLEY ROAD



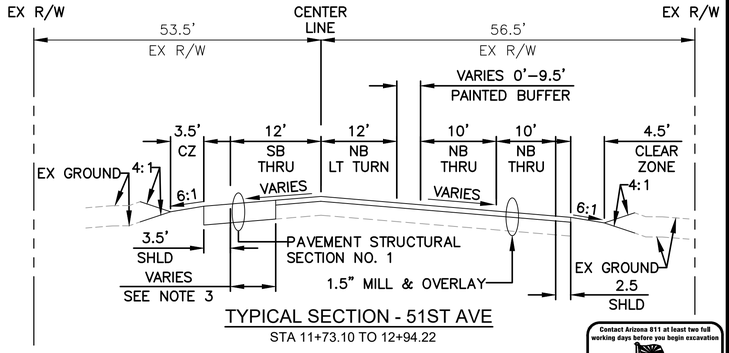
TYPICAL SECTION - 61ST AVE

STA 10+30.40 TO 11+31.37



TYPICAL SECTION - 51ST AVE

STA 10+28.25 TO 11+73.10



TYPICAL SECTION - 51ST AVE

STA 11+73.10 TO 12+94.22

GENERAL NOTES:

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F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	16	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

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TYPICAL SECTIONS

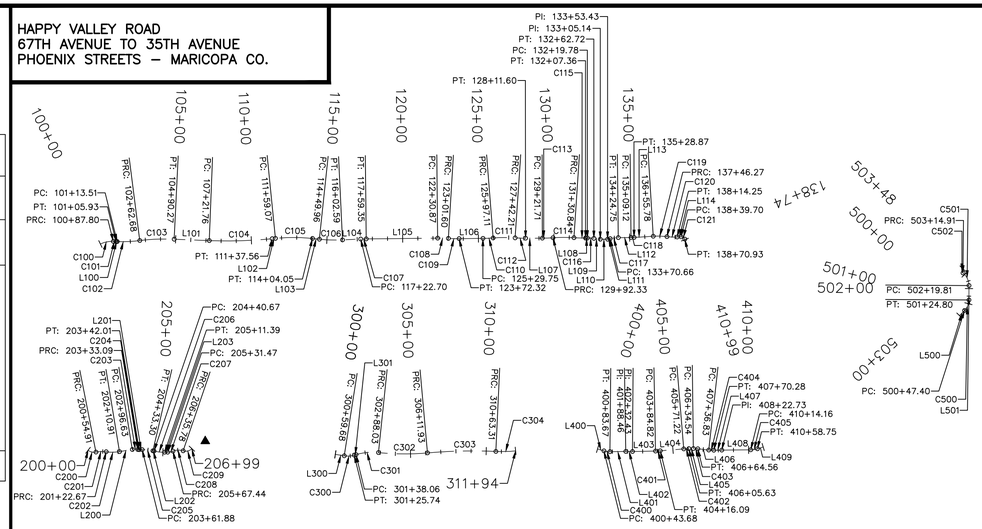
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. G–3.10
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: NTS			16 OF 364

SHEET NAME: ST85100437_TY10.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



PROJECT CONTROL TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
109	987122.3105	633705.6496	1422.62	COP BM #1516, 3IN BC HAPPY VALLEY RD-35TH AVE
110	987082.1924	628431.0820	1397.67	COP 3IN BC HAPPY VALLEY RD-43RD AVE
111	987082.1934	628438.1240	1397.58	COP 3IN BC HAPPY VALLEY RD-43RD AVE
112	987066.1484	627106.3613	1403.14	COP 3IN BC HAPPY VALLEY RD-45TH AVE
113	987045.4143	625781.5556	1411.07	COP BM #1507, 3IN BC IN HH HAPPY VALLEY RD-47TH AVE
114	987033.6913	624455.0789	1418.19	COP 3IN BC IN HH HAPPY VALLEY RD-49TH AVE
115	987017.0523	623129.4543	1420.08	COP BM #1481, 3IN BC HH HAPPY VALLEY RD-51ST AVE
116	986992.8132	620399.0938	1419.94	COP BM #1478, 3IN BC IN HH HAPPY VALLEY RD-55TH AVE
117	986987.3882	617949.4448	1410.66	COG 3IN BC IN HH HAPPY VALLEY RD
118	986958.9412	615534.6059	1387.78	COP 3IN BC FLUSH HAPPY VALLEY RD-62ND AVE
119	986954.1422	614685.4752	1381.60	3IN BC IN HH HAPPY VALLEY RD-64TH AVE
120	986947.5401	612984.7868	1381.87	3IN BCFLUSH HAPPY VALLEY RD-67TH AVE

MULTI–USE TRAIL CURVE TABLE					
CURVE NO.	RADIUS	LENGTH	CHORD DIRECTION	START POINT	END POINT
C300	150.00'	66.06'	N86° 15' 26.15"E	N 986980.04, E 625908.70	N 986984.32, E 625974.09
C301	385.09'	149.98'	N84° 47' 49.24"E	N 986987.79, E 625985.91	N 987001.30, E 626134.32
C302	1677.84'	323.90'	S89° 34' 34.97"E	N 987001.30, E 626134.32	N 986998.91, E 626457.71
C303	3333.32'	451.37'	N88° 46' 21.36"E	N 986998.91, E 626457.71	N 987008.57, E 626908.63
C304	868.73'	130.79'	N88° 20' 19.44"E	N 987008.57, E 626908.63	N 987012.36, E 627039.25
C400	157.55'	39.98'	S82° 08' 07.14"E	N 987012.61, E 627271.58	N 987007.15, E 627311.08
C401	505.00'	31.27'	N87° 06' 25.38"E	N 987011.44, E 627612.19	N 987013.02, E 627643.41
C402	495.00'	34.41'	N87° 19' 28.70"E	N 987025.64, E 627798.03	N 987027.24, E 627832.39
C403	245.00'	30.01'	S87° 10' 28.40"E	N 987027.59, E 627861.30	N 987026.11, E 627891.26
C404	255.00'	33.45'	S87° 25' 23.62"E	N 987018.14, E 627963.09	N 987016.63, E 627996.48
C405	155.00'	44.59'	N81° 12' 18.83"E	N 987019.57, E 628240.35	N 987026.36, E 628284.26
C500	100.00'	77.39'	N22° 32' 06.78"E	N 987114.05, E 619097.39	N 987183.77, E 619126.32
C501	105.00'	95.10'	N25° 35' 01.64"W	N 987278.78, E 619126.92	N 987361.65, E 619087.24
C502	20.00'	33.34'	N3° 46' 28.88"W	N 987361.65, E 619087.24	N 987391.20, E 619085.29
C100	175.00'	87.80'	N78° 34' 36.30"E	N 987028.38, E 615384.84	N 987045.59, E 615470.01
C101	1500.00'	18.13'	S87° 23' 46.27"E	N 987045.59, E 615470.01	N 987044.77, E 615488.12
C102	895.00'	149.17'	N87° 28' 58.34"E	N 987044.47, E 615495.69	N 987051.01, E 615644.54
C103	1295.00'	227.59'	N87° 44' 35.00"E	N 987051.01, E 615644.54	N 987059.96, E 615871.67
C104	2995.00'	415.81'	N88° 16' 48.81"E	N 987050.85, E 616102.97	N 987063.31, E 616518.26
C105	1195.00'	244.98'	S89° 49' 26.90"E	N 987065.45, E 616539.66	N 987064.70, E 616784.21
C106	1000.00'	152.63'	S88° 19' 25.46"E	N 987059.86, E 616829.86	N 987055.40, E 616982.28
C107	1000.00'	36.65'	N88° 21' 12.84"E	N 987061.05, E 617102.26	N 987062.10, E 617138.89
C108	1000.00'	70.73'	S88° 34' 13.67"E	N 987067.01, E 617610.39	N 987065.25, E 617681.07
C109	1000.00'	70.73'	S88° 34' 13.67"E	N 987065.25, E 617681.07	N 987063.49, E 617751.76
C110	1000.00'	67.37'	N87° 28' 24.70"E	N 987065.12, E 617909.18	N 987068.09, E 617976.47
C111	1000.00'	145.10'	N89° 42' 01.59"E	N 987068.09, E 617976.47	N 987068.85, E 618121.44
C112	1000.00'	69.38'	S88° 07' 49.79"E	N 987068.85, E 618121.44	N 987066.59, E 618190.77
C113	1000.00'	70.62'	N87° 51' 30.77"E	N 987066.82, E 618300.88	N 987069.45, E 618371.44
C114	1000.00'	138.51'	N89° 48' 12.31"E	N 987069.45, E 618371.44	N 987069.93, E 618509.84
C115	1000.00'	76.51'	S88° 25' 13.45"E	N 987069.93, E 618509.84	N 987067.82, E 618586.31
C116	300.00'	42.94'	S86° 30' 41.18"E	N 987067.95, E 618598.73	N 987065.34, E 618641.55
C117	250.00'	54.08'	N83° 11' 24.62"E	N 987063.73, E 618748.68	N 987070.13, E 618802.28
C118	395.00'	19.75'	N87° 57' 19.02"E	N 987071.03, E 618886.65	N 987071.74, E 618906.38
C119	505.00'	90.49'	S88° 20' 36.90"E	N 987079.43, E 619033.06	N 987076.82, E 619123.39
C120	395.00'	67.98'	S88° 08' 24.85"E	N 987076.82, E 619123.39	N 987074.62, E 619191.25
C121	25.00'	31.23'	S57° 17' 15.81"E	N 987075.98, E 619216.66	N 987060.18, E 619241.26
C200	65.00'	54.91'	S76° 56' 54.97"E	N 986985.55, E 625008.40	N 986973.52, E 625060.32
C201	205.00'	67.76'	N88° 19' 08.81"E	N 986973.52, E 625060.32	N 986975.50, E 625127.74
C202	295.03'	88.23'	N89° 13' 11.61"E	N 986975.50, E 625127.74	N 986976.69, E 625215.64
C203	105.00'	36.46'	S89° 20' 40.26"E	N 986990.54, E 625300.24	N 986990.12, E 625336.51
C204	45.00'	8.92'	S85° 04' 40.27"E	N 986990.12, E 625336.51	N 986989.36, E 625345.39
C205	295.00'	71.42'	S83° 49' 20.92"E	N 986989.62, E 625365.25	N 986981.95, E 625436.08
C206	295.00'	70.72'	S83° 45' 16.72"E	N 986980.28, E 625443.26	N 986972.61, E 625513.39
C207	95.00'	35.96'	N78° 31' 56.92"E	N 986972.82, E 625533.48	N 986979.93, E 625568.51
C208	95.00'	68.35'	N88° 17' 53.80"E	N 986979.93, E 625568.51	N 986981.92, E 625635.37
C209	54.99'	62.87'	N76° 09' 45.06"E	N 986981.92, E 625635.37	N 986996.15, E 625693.14

MULTI–USE TRAIL LINE TABLE				
LINE NO.	LENGTH	DIRECTION	START POINT	END POINT
L100	7.58'	S87° 44' 32.93"E	N 987044.77, E 615488.12	N 987044.47, E 615495.69
L101	231.48'	S87° 44' 32.75"E	N 987059.96, E 615871.67	N 987050.85, E 616102.97
L102	21.51'	N84° 18' 10.55"E	N 987063.31, E 616518.26	N 987065.45, E 616539.66
L103	45.91'	S83° 57' 04.34"E	N 987064.70, E 616784.21	N 987059.86, E 616829.86
L104	120.12'	N87° 18' 13.42"E	N 987055.40, E 616982.28	N 987061.05, E 617102.26
L105	471.52'	N89° 24' 12.25"E	N 987062.10, E 617138.89	N 987067.01, E 617610.39
L106	157.43'	N89° 24' 12.25"E	N 987063.49, E 617751.76	N 987065.12, E 617909.18
L107	110.11'	N89° 52' 54.37"E	N 987066.59, E 618190.77	N 987066.82, E 618300.88
L108	12.42'	N89° 23' 15.64"E	N 987067.82, E 618586.31	N 987067.95, E 618598.73
L109	42.42'	S82° 24' 38.01"E	N 987065.34, E 618641.55	N 987059.74, E 618683.60
L110	48.29'	N89° 52' 12.94"E	N 987059.74, E 618683.60	N 987059.85, E 618731.89
L111	17.23'	N76° 59' 33.61"E	N 987059.85, E 618731.89	N 987063.73, E 618748.68
L112	84.37'	N89° 23' 15.64"E	N 987070.13, E 618802.28	N 987071.03, E 618886.65
L113	126.91'	N86° 31' 22.40"E	N 987071.74, E 618906.38	N 987079.43, E 619033.06
L114	25.45'	N86° 55' 46.49"E	N 987074.62, E 619191.25	N 987075.98, E 619216.66
L200	85.73'	N80° 42' 31.23"E	N 986976.69, E 625215.64	N 986990.54, E 625300.24
L201	19.87'	N89° 14' 30.64"E	N 986989.36, E 625345.39	N 986989.62, E 625365.25
L202	7.37'	S76° 53' 12.48"E	N 986981.95, E 625436.08	N 986980.28, E 625443.26
L203	20.08'	N89° 22' 39.04"E	N 986972.61, E 625513.39	N 986972.82, E 625533.48
L300	59.68'	S81° 07' 32.03"E	N 986989.25, E 625849.73	N 986980.04, E 625908.70
L301	12.32'	N73° 38' 24.32"E	N 986987.79, E 625974.09	N 986987.79, E 625985.91
L400	43.68'	S73° 24' 20.72"E	N 987025.08, E 627229.71	N 987012.61, E 627271.58
L401	104.79'	N89° 05' 22.32"E	N 987007.15, E 627311.08	N 987008.81, E 627415.86
L402	43.97'	S89° 32' 33.86"E	N 987008.81, E 627415.86	N 987008.46, E 627459.83
L403	152.39'	N88° 52' 50.72"E	N 987008.46, E 627459.83	N 987011.44, E 627612.19
L404	155.14'	N85° 20' 00.03"E	N 987013.02, E 627643.41	N 987025.64, E 627798.03
L405	28.91'	N89° 18' 57.36"E	N 987027.24, E 627832.39	N 987027.59, E 627861.30
L406	72.27'	S83° 39' 54.17"E	N 987026.11, E 627891.26	N 987018.14, E 627963.09
L407	52.45'	N88° 49' 06.94"E	N 987016.63, E 627996.48	N 987017.72, E 628048.92
L408	191.43'	N89° 26' 45.33"E	N 987017.72, E 628048.92	N 987019.57, E 628240.35
L409	40.00'	N72° 57' 52.33"E	N 987026.36, E 628284.26	N 987038.08, E 628322.50
L500	47.40'	N44° 42' 23.32"E	N 987080.36, E 619064.04	N 987114.05, E 619097.39
L501	95.01'	N0° 21' 50.24"E	N 987183.77, E 619126.32	N 987278.78, E 619126.92

STATION EQUATIONS			
HAPPY VALLEY ROAD ALIGNMENT		MULTI–USE TRAIL ALIGNMENTS	
STATION	OFFSET	STATION	OFFSET
34+00.92	71.33' LT	100+00.00	0.00'
72+57.92	67.22' LT	138+73.95	0.00'
130+23.49	51.57' RT	200+00.00	0.00'
137+08.30	48.29' RT	206+98.65	0.00'
138+64.63	57.08' RT	300+00.00	0.00'
150+54.35	50.47' RT	311+94.10	0.00'
152+44.97	40.39' RT	400+00.00	0.00'
163+37.83	42.56' RT	410+98.75	0.00'
70+79.65	90.58' LT	500+00.00	0.00'
71+01.55	401.38' LT	503+48.25	0.00'

City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	17	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | **DESIGN:** ASF | **CHECKED:** TJC

REVISION BY CITY OF PHOENIX

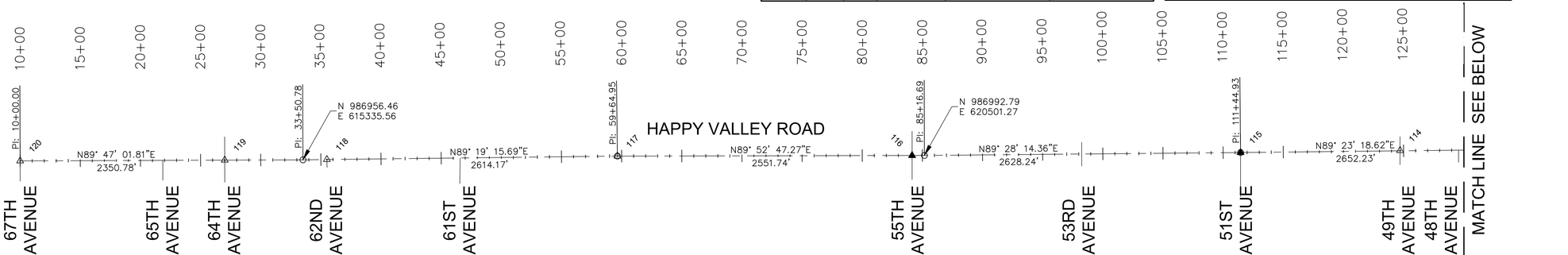
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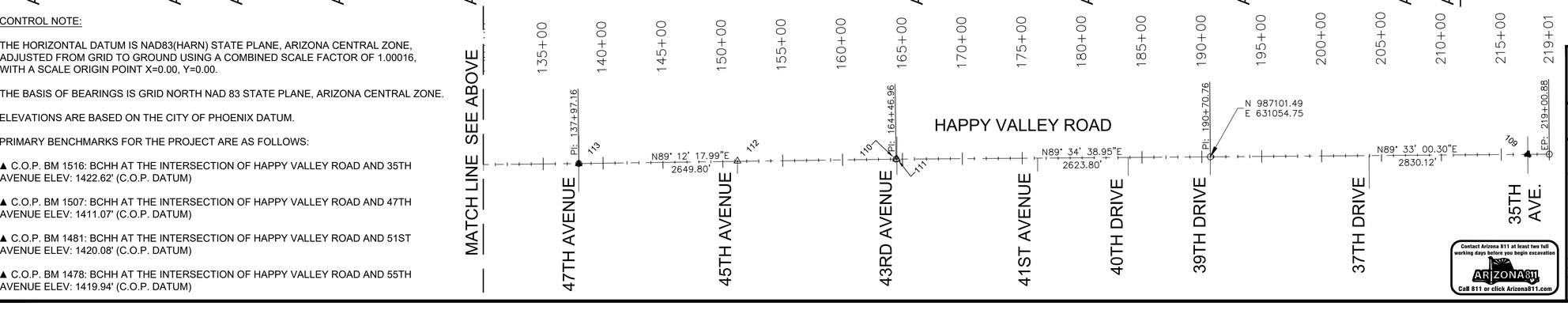
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE





CONTROL NOTE:

THE HORIZONTAL DATUM IS NAD83(HARN) STATE PLANE, ARIZONA CENTRAL ZONE, ADJUSTED FROM GRID TO GROUND USING A COMBINED SCALE FACTOR OF 1.00016, WITH A SCALE ORIGIN POINT X=0.00, Y=0.00.

THE BASIS OF BEARINGS IS GRID NORTH NAD 83 STATE PLANE, ARIZONA CENTRAL ZONE.

ELEVATIONS ARE BASED ON THE CITY OF PHOENIX DATUM.

PRIMARY BENCHMARKS FOR THE PROJECT ARE AS FOLLOWS:

▲ C.O.P. BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

▲ C.O.P. BM 1507: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 47TH AVENUE ELEV: 1411.07' (C.O.P. DATUM)

▲ C.O.P. BM 1481: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 51ST AVENUE ELEV: 1420.08' (C.O.P. DATUM)

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55TH AVENUE ELEV: 1419.94' (C.O.P. DATUM)

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ARIZONA811
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GEOMETRIC CONTROL SHEET

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. G-4.01
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 200' HORIZONTAL			17 OF 364

SHEET NAME: ST85100437GL.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

+06.11, 14.49' L WV
+09.85, 17.68' L WV
+10.31, 10.65' L WV
+50.33, 24.73' L WV
+58.91, 10.06' L WMH
+60.25, 8.60' L WV
+62.95, 84.48' L TSS LPS
+75.18, 74.70' L TSPB
77.80' L CPT SAW CUT
+76.84, 81.18, 65.03' L TS LPS
+91.19, 59.40' L FH
+95.57, 9.50' L WHM
+98.52, 54.78' L CB
+00.42, 8.90' L WMH
+01.88, 54.93' L CB
+05.41, 54.65' L CB
+15.89, 76.00' L TREE
+37.64, 93.55' L TREE
+44.30, 90.57' L BPV
+44.84, 88.09' L WM
+45.98, 90.72' L BPV
+46.50, 87.99' L WM
+71.65, 60.67' L LPS

City of Phoenix
N

201-35-071
6640 W HAPPY VALLEY RD
ENRI 2 LLC

EXST CATCH BASIN TO REMAIN
PROTECT–IN–PLACE WATER METERS
MATCH PAVEMENT MILLING LIMITS TO CITY OF PEORIA PROJECT #EN00100 +55.00, 84.90' LT
MATCH PAVEMENT MILLING LIMITS TO CITY OF PEORIA PROJECT #EN00100 +55.00, 84.77' RT
67TH AVENUE
HAPPY VALLEY ROAD
SECTION LINE & CST ℄
℄ INTERSECTION
STA 10+00.00 HAPPY VALLEY RD
= STA 11+68.62 67TH AVENUE
CITY OF PEORIA JURISDICTION
CITY OF PHOENIX
CITY OF PEORIA
EXST R/W
201-12-811
24831 N 67TH AVE
RI CS1 LLC
MATCHLINE STA. 13+00.00
SEE SHEET 19

90°9'3" 89°47'7" 89°50'57" 90°12'53"

10' MURT E
80' EX R/W
79' EX R/W
78' EX R/W
68'± EX UGE
22' EX W
26'± EX S
45'± EX G
67'± EX T
66'± EX UGE
60'± EX CATV
10'± EX G
25'± EX S
16'± EX W
28'± EX W
41'± EX UGE
37'± EX UGE
61'± EX T
66'± EX UGE
63'± EX OHE
65' EX R/W
70' EX R/W
10' S/W E

+24.86, 27.35' R WMH
+30.24, 15.57' R WV
+31.80, 14.42' R WVH
+65.18, 91.31' R TS LPS
+72.27, 83.32' R TSPB
+76.12, 83.71' R TSC
+83.78, 74.14' R TSS LPS
+90.26, 62.99' R CB
+91.57, 41.05' R GV
+92.74, 15.88' R TSPB
+93.05, 72.40' R EPB
+93.67, 63.53' R CB
+95.42, 16.39' R SGN LEFT ONLY
+97.01, 64.07' R CB
+99.90, 13.10' R SGN BIKE LN
+01.51, 13.07' R CB
+24.75, 15.62' R TSPB
+44.25, 89.38' R TREE
+50.89, 26.26' R SMH
+80.57, 82.28' R TREE
+29.33, 87.30' R EPB
+31.73, 82.48' R SGN RT LN MUST TURN
+41.19, 90.11' R LP
+77.50, 20.85' R SGN ONE WAY
+89.64, 18.14' R SGN LEFT ONLY

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	18	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
5	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	3039

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
	REMOVE DECORATIVE BRICK PAVERS
	REMOVE ASPHALT CONCRETE PAVEMENT
	CLEAR & GRUB

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

REMOVAL PLAN

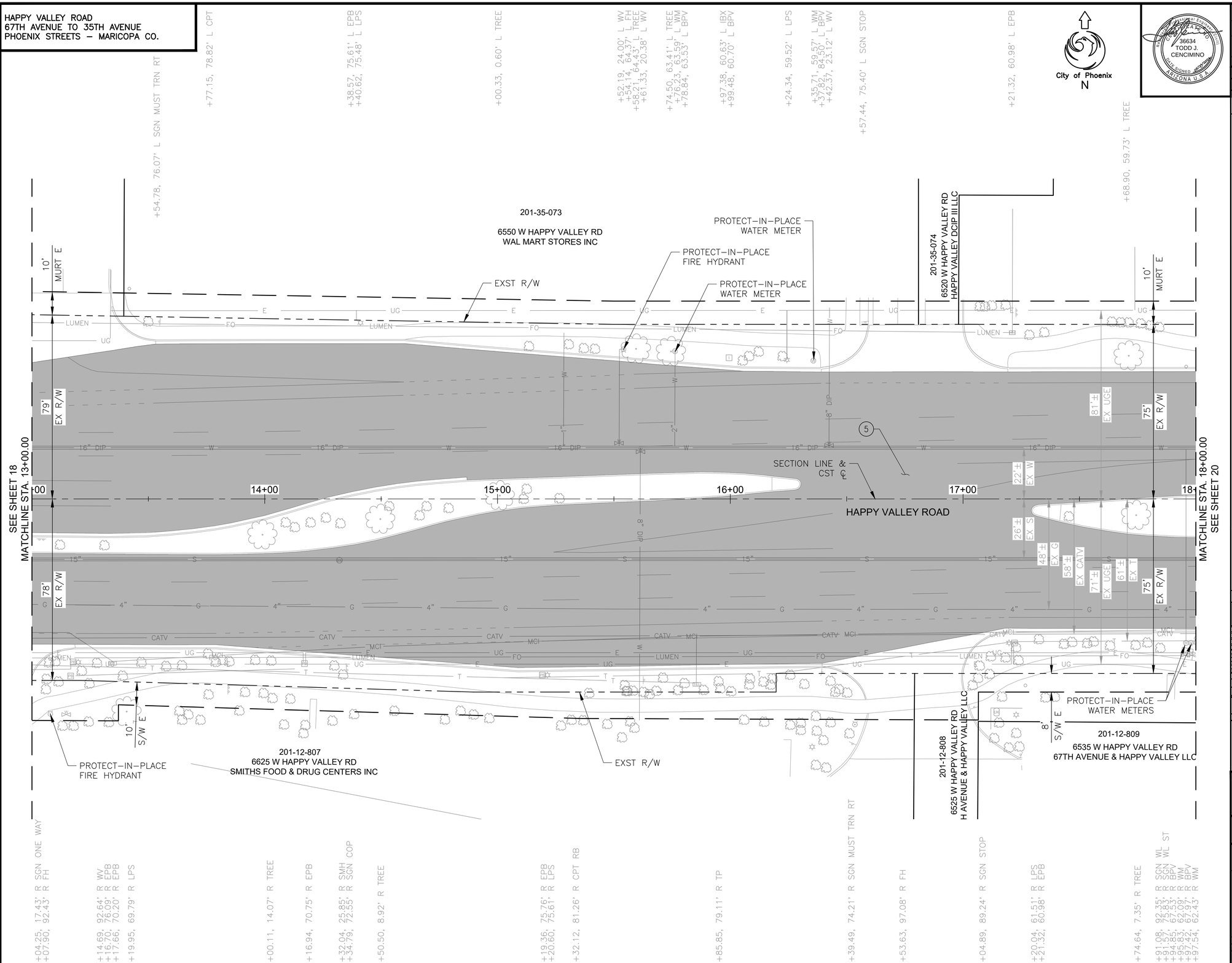
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.01
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			18 OF 364

SHEET NAME: ST85100437REM01.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	19	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
(5)	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	6349

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.02
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			19 OF 364

SHEET NAME: ST85100437REM02.DWG, PLOT DATE: 5/28/2024

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

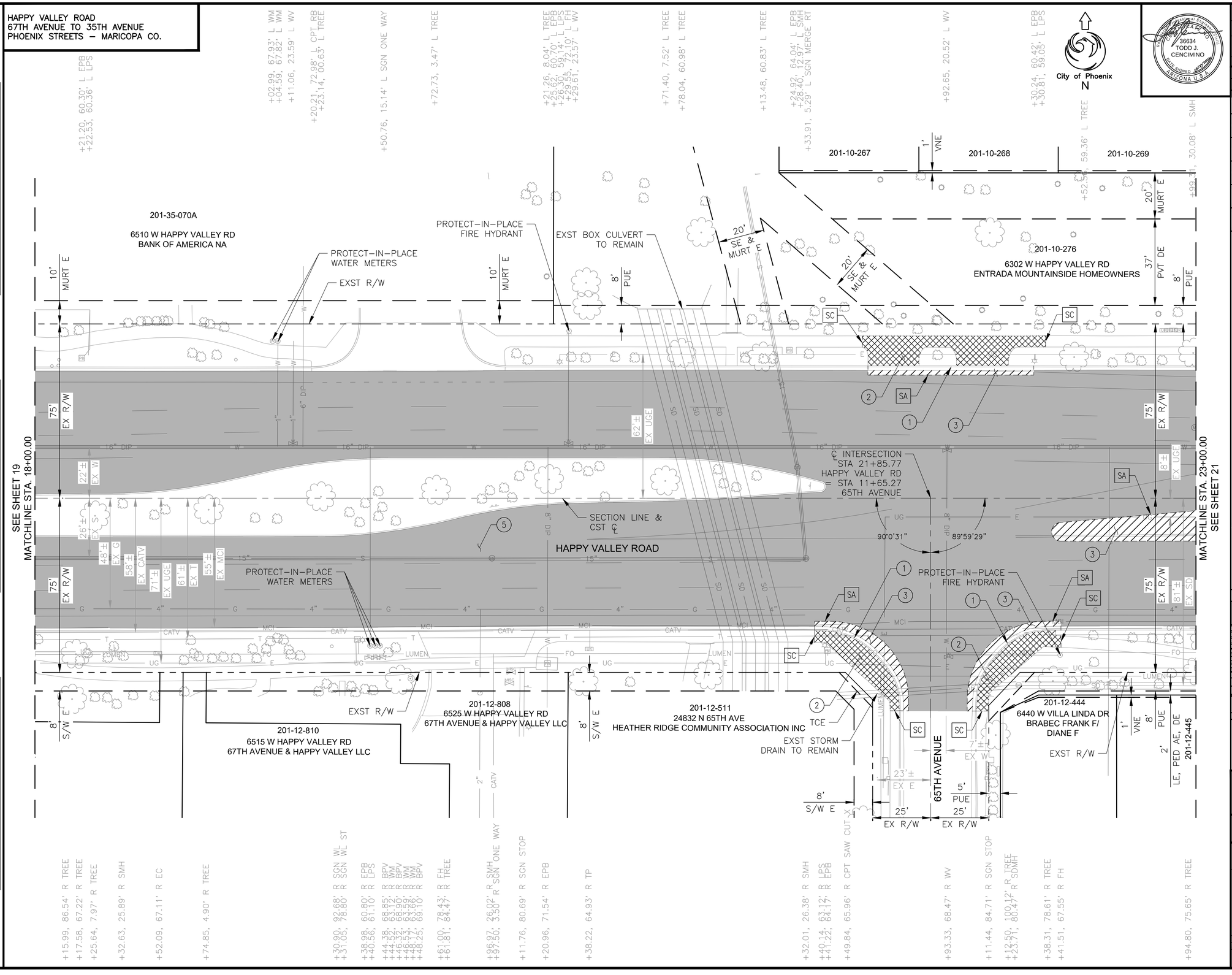
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	20	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	191
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	1556
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	131
5	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	5353
SA	ASPHALT SAWCUTTING	LF	343
SC	CONCRETE SAWCUTTING	LF	41

GENERAL NOTES:

1. PROTECT-IN-PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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ARIZONA811
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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

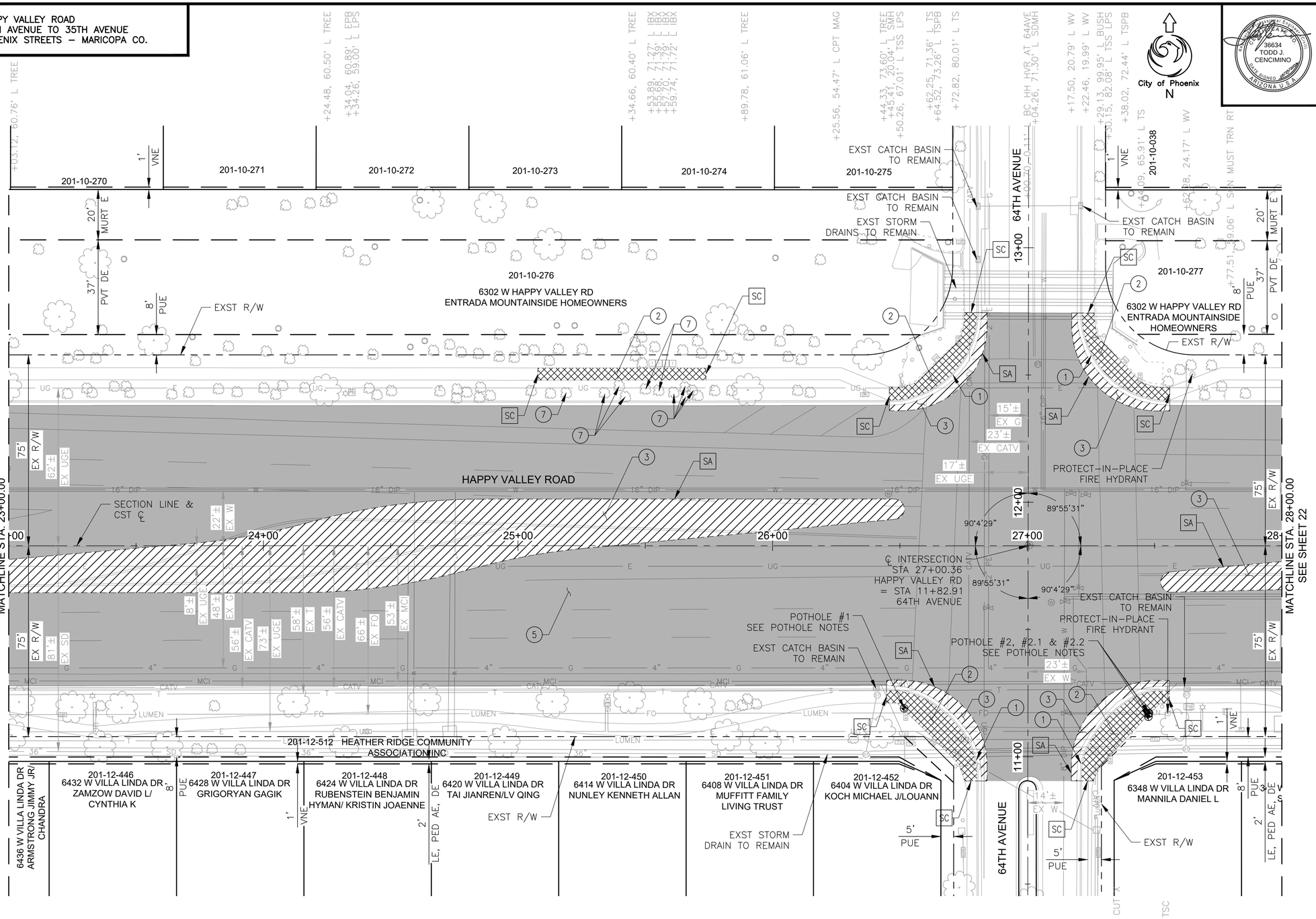
DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-1.03
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			20 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437REM03.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	21	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REGISTERED PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
CERTIFICATE NOT VALID UNLESS SIGNED AND DATED
ARIZONA U.S.A.

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	230
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	1706
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	903
5	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	5650
7	REMOVE EXISTING BUSHES, SHURBS, CACTI, OR SMALL TREES	EA	10
SA	ASPHALT SAWCUTTING	LF	1082
SC	CONCRETE SAWCUTTING	LF	65

POTHOLE NOTES:
POTHOLE #1
CENTURY LINK TELEPHONE
UTILITY TOP=1377.51
(4) 4.5" PLASTIC CONDUIT PIPES
26+51.57, 64.98' RT

POTHOLE #2
CENTURY LINK TELEPHONE
UTILITY TOP=1380.02
2.5" & (3) 2.25" PLASTIC CONDUIT PIPES
27+47.54, 68.35' RT

POTHOLE #2.1
UNKNOWN WATER
UTILITY TOP=1378.49
5.5" METAL PIPE
27+47.62, 67.19' RT

POTHOLE #2.2
CENTURY LINK TELEPHONE
UTILITY TOP=1377.38
(2) 4.5" & 1" PLASTIC CONDUIT PIPES
4.5" PIPES BELIEVED TO BE GAS
27+47.74, 66.85' RT

GENERAL NOTES:

1. PROTECT-IN-PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

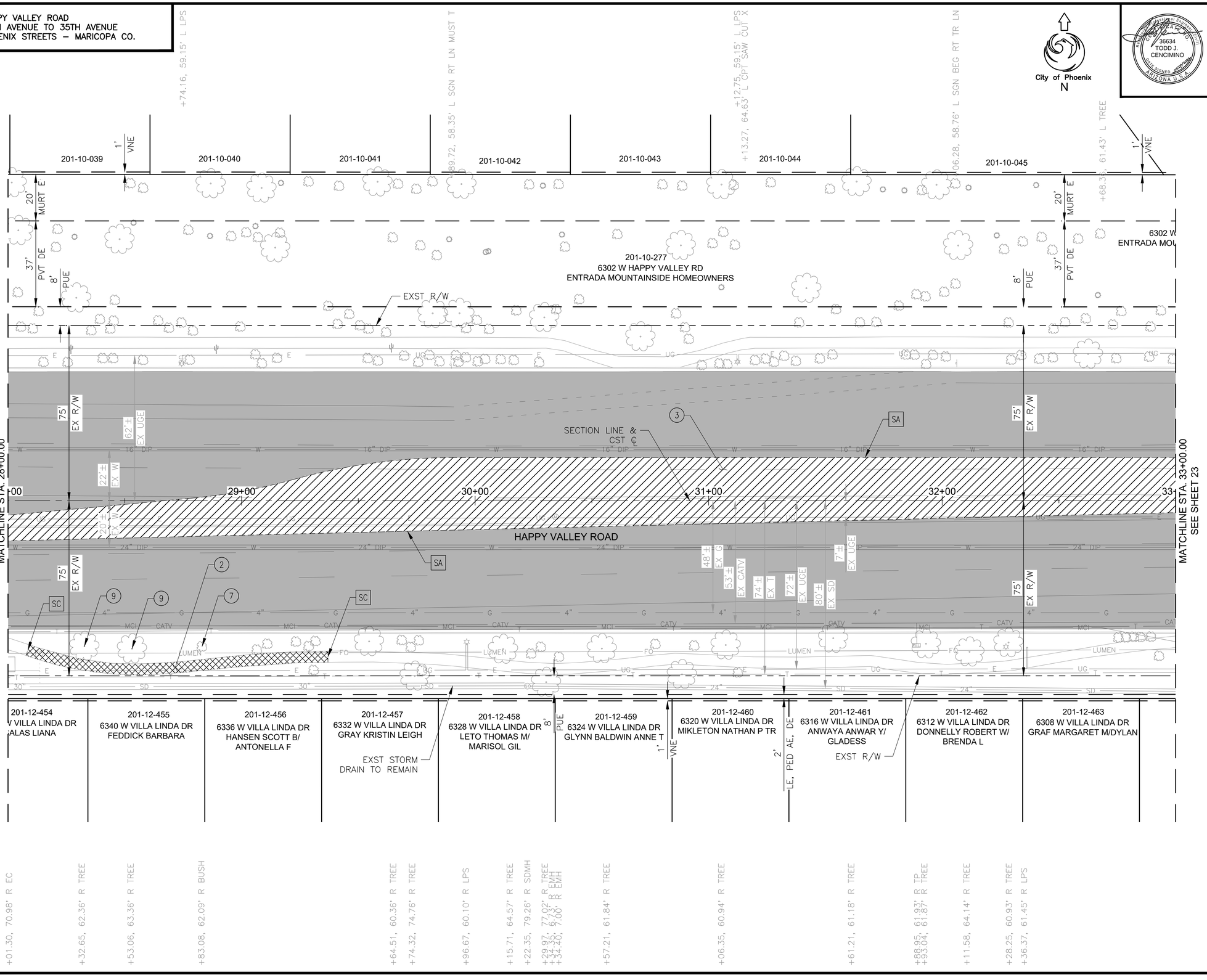
DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-1.04
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			21 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437REM04.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	22	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO REGISTERED ARIZONA U.S.A.

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
(2)	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	618
(3)	REMOVE ASPHALT CONCRETE PAVEMENT	SY	1373
(5)	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SF	4755
(7)	REMOVE EXISTING BUSHES, SHRUBS, CACTI OR SMALL TREES	EA	1
(9)	REMOVE TREE, 12" DIAMETER AND LARGER	EA	2
SA	ASPHALT SAWCUTTING	LF	1002
SC	CONCRETE SAWCUTTING	LF	10

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.05
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			22 OF 364

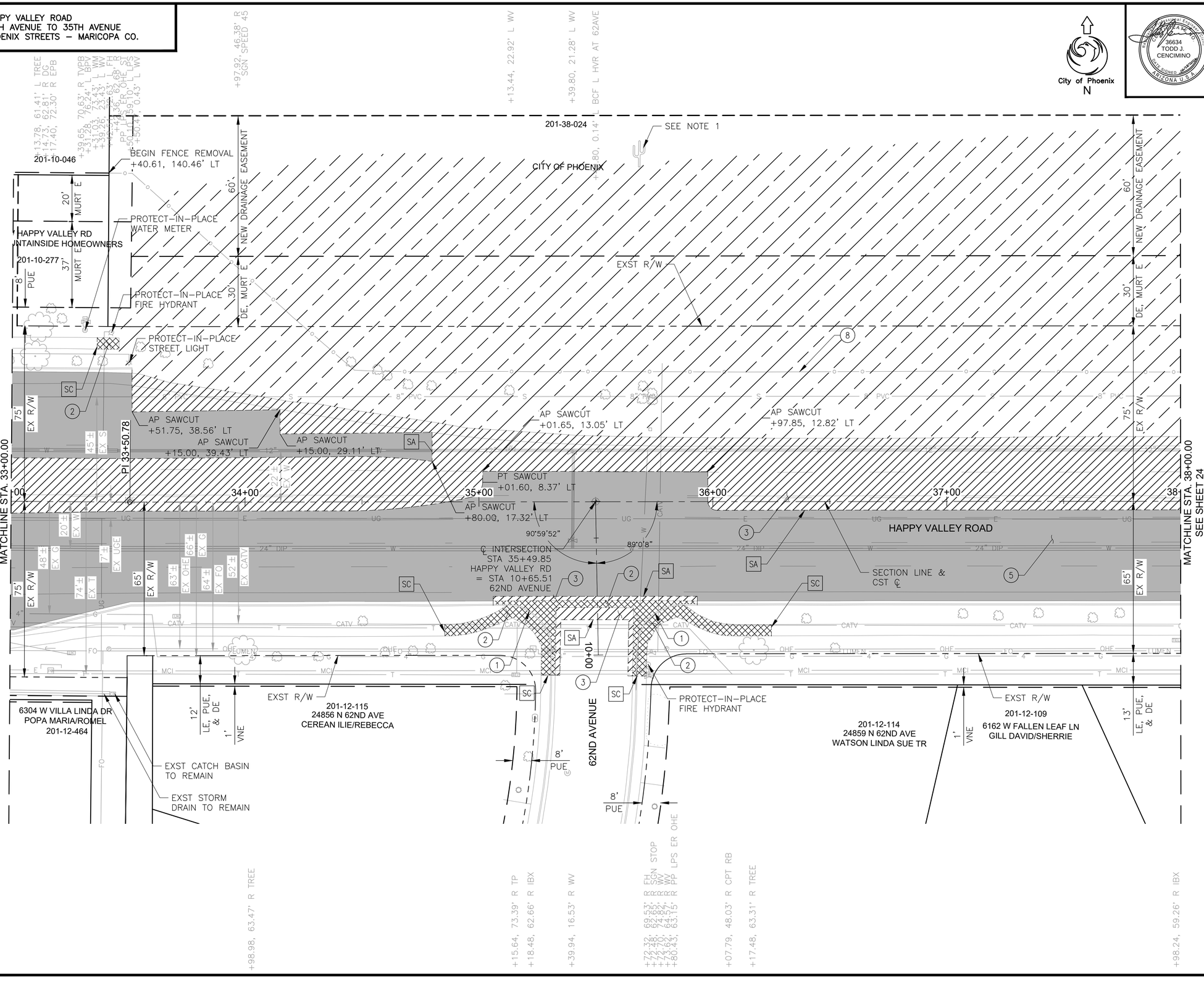
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437REM05.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	23	368	

06/2024 DATE:

36634 TODD J. CENCIMINO SIGNED 06/30/2024 ARIZONA U.S.A.

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	95
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	1155
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	1579
5	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	2784
8	REMOVE 6' CHAINLINK FENCE	LF	449
SA	ASPHALT SAWCUTTING	LF	1044
SC	CONCRETE SAWCUTTING	LF	31

GENERAL NOTES:

1. PROTECT-IN-PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-1.06
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			23 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

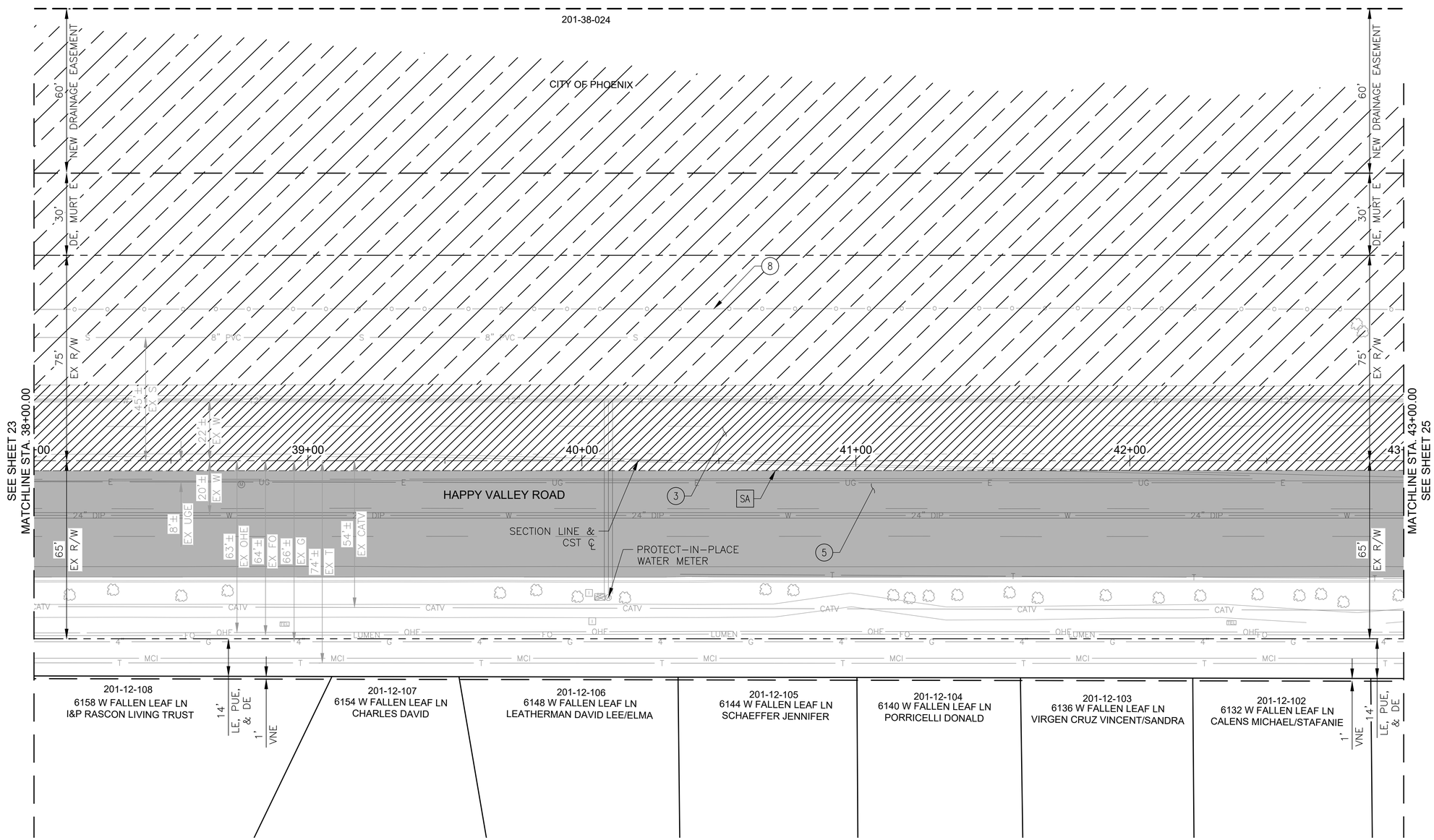
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437REM06.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	24	368	

05/2024 DATE:

WILSON & COMPANY 2155 W. 13th Street Tempe, Arizona 85281

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	1731
5	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SF	2160
8	REMOVE 6' CHAINLINK FENCE	LF	500
SA	ASPHALT SAWCUTTING	LF	500

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

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ELEV: 1419.94' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.07
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			24 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

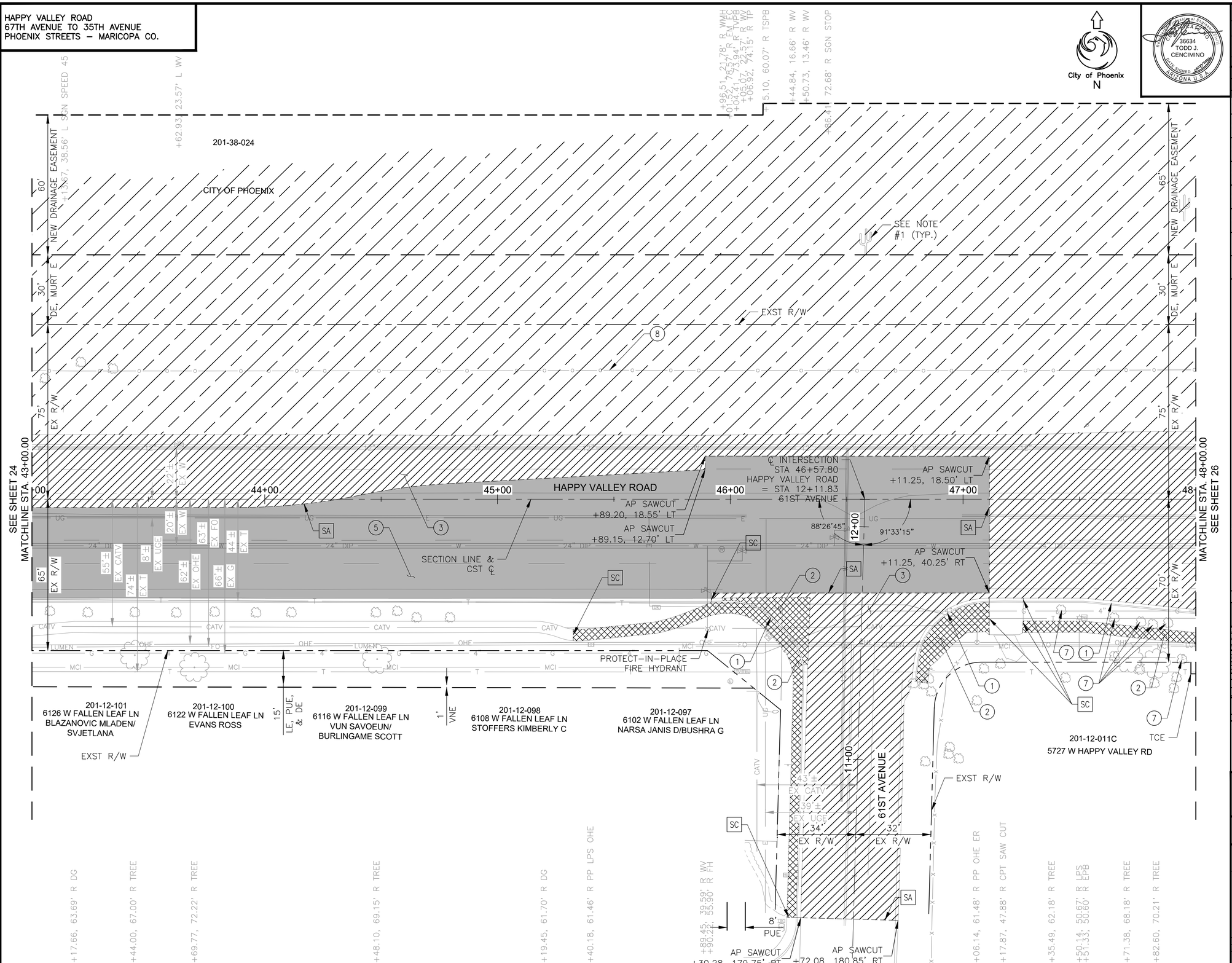
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437REM07.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	25	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REGISTERED PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
ARIZONA U.S.A.

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	290
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	2133
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	2341
5	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	2258
7	REMOVE EXISTING BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	6
8	REMOVE 6' CHAINLINK FENCE	LF	500
SA	ASPHALT SAWCUTTING	LF	640
SC	CONCRETE SAWCUTTING	LF	36

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.08
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			25 OF 364

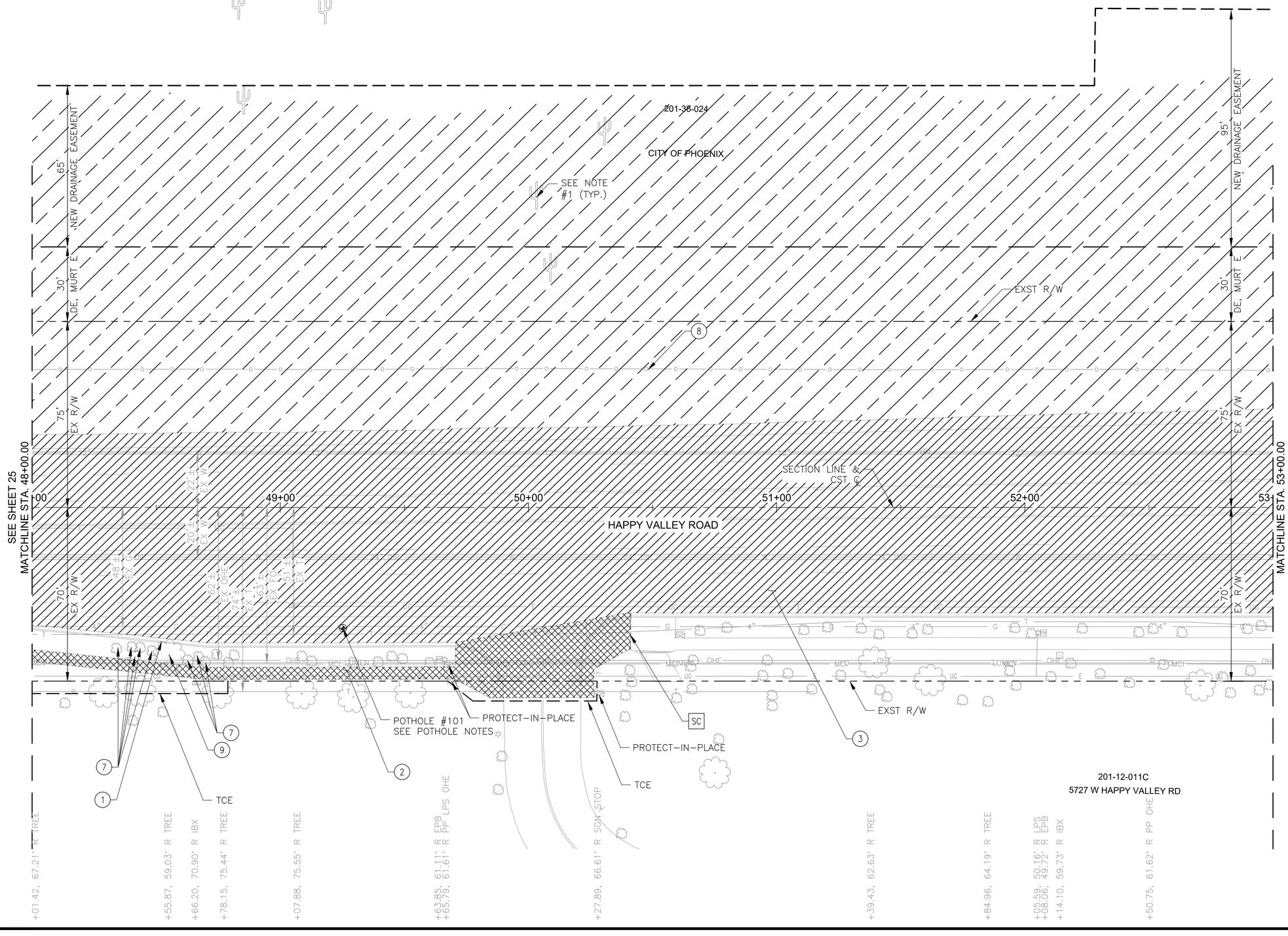
SHEET NAME: ST85100437REM08.DWG, PLOT DATE: 5/28/2024

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	26	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REGISTERED PROFESSIONAL ENGINEER – 36634 – TODD J. CENCIMINO – ARIZONA, U.S.A.

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	199
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	2574
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	4475
7	REMOVE EXISTING BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	8
8	REMOVE 6' CHAINLINK FENCE	LF	500
9	REMOVE TREE, 12" DIAMETER AND LARGER	EA	1
SC	CONCRETE SAWCUTTING	LF	15

POTHOLE NOTES:

POTHOLE #101
SWG GAS
UTILITY TOP=1403.40
4" PLASTIC PIPE RUNNING E/W–MARKED AS GAS
49+25.33, 48.75' RT

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
	REMOVE DECORATIVE BRICK PAVERS
	REMOVE ASPHALT CONCRETE PAVEMENT
	CLEAR & GRUB

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.09
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			26 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

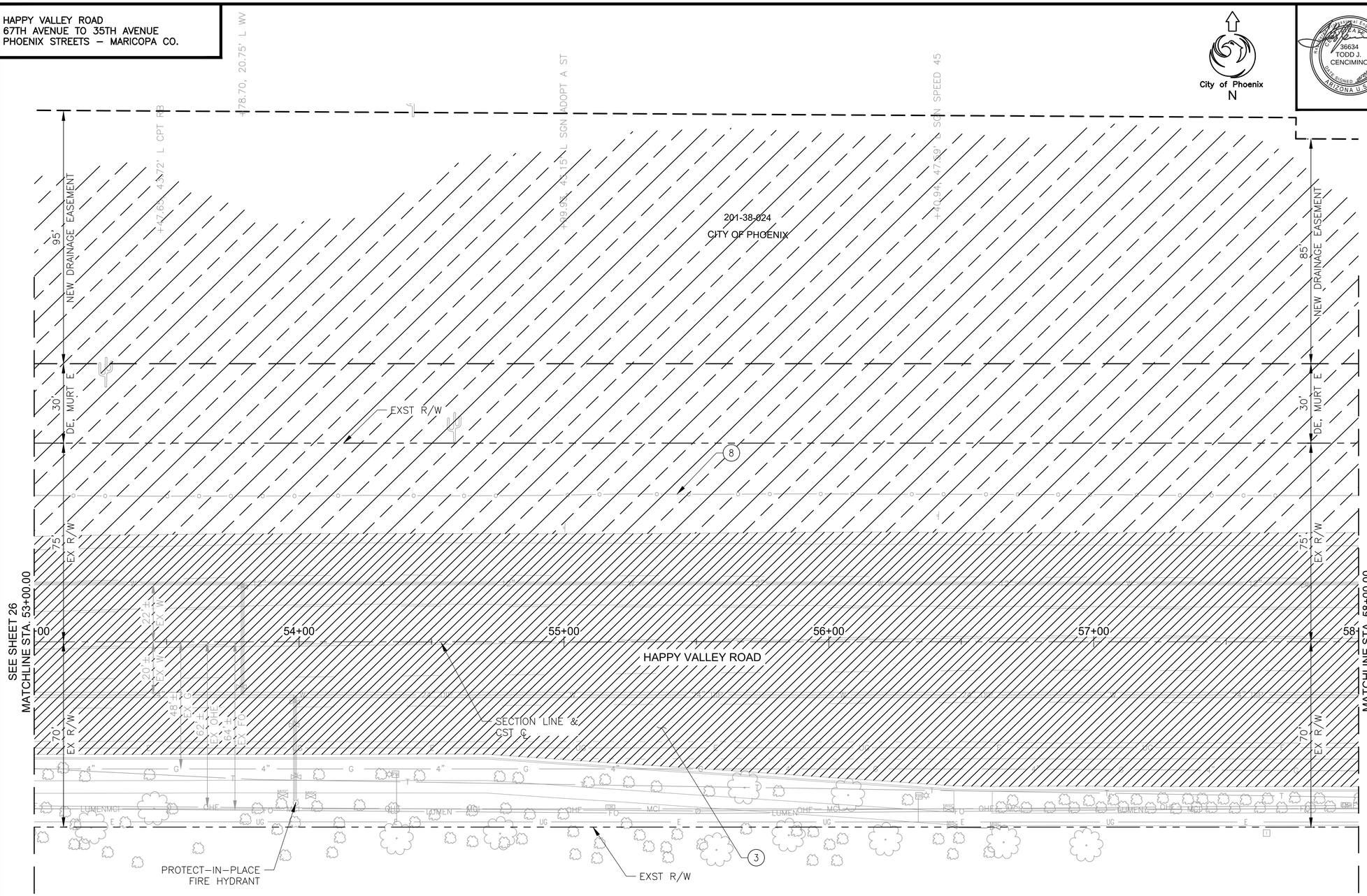
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437REM09.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	27	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REGISTERED PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
ARIZONA U.S.A.

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	4958
8	REMOVE 6' CHAINLINK FENCE	LF	500

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.10
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			27 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

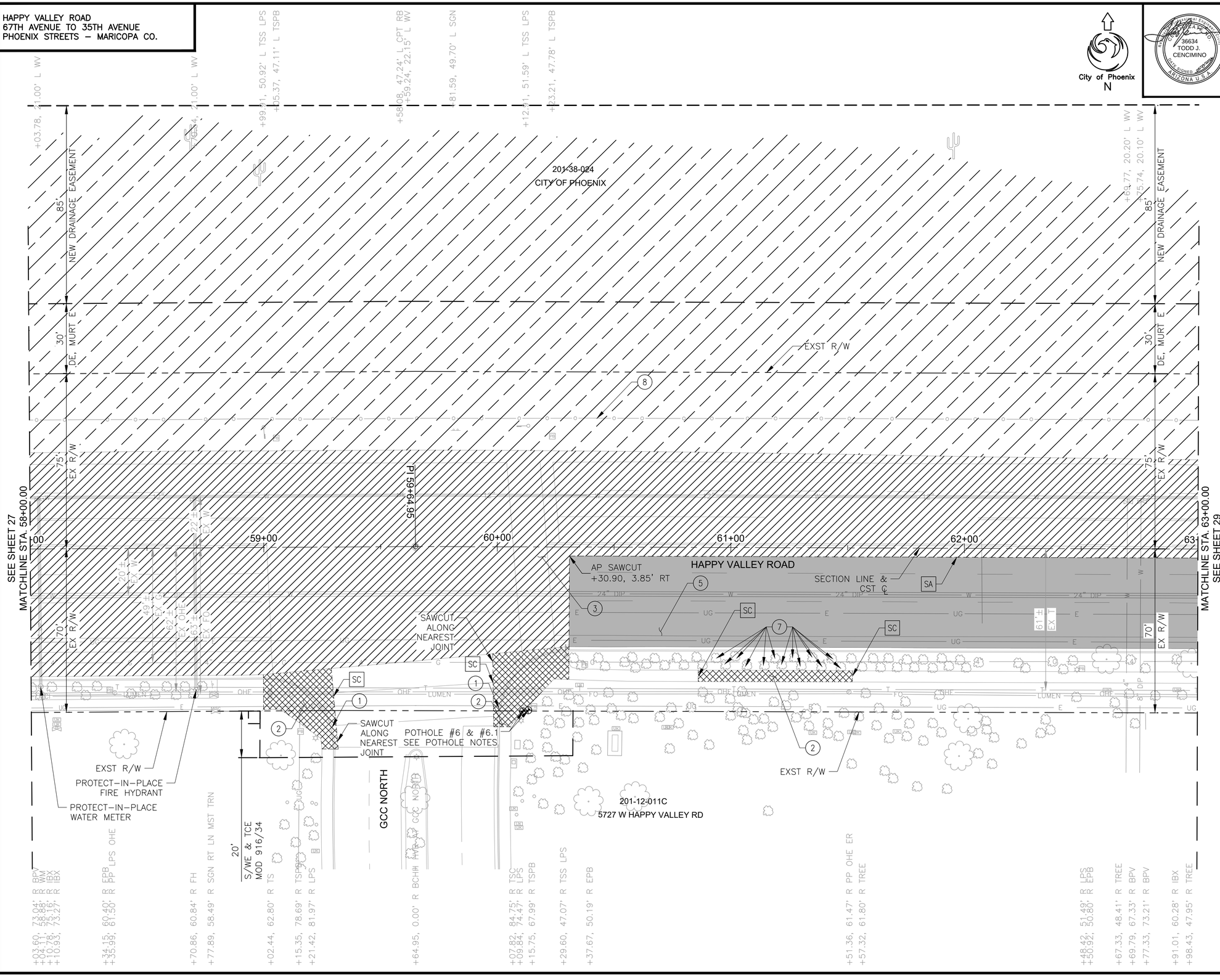
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437REM10.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	28	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REGISTERED PROFESSIONAL ENGINEER – 36634 – TODD J. CENCIMINO – ARIZONA U.S.A.

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	100
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	1758
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	3680
5	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	1161
7	REMOVE EXISTING BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	13
8	REMOVE 6' CHAINLINK FENCE	LF	500
SA	ASPHALT SAWCUTTING	LF	308
SC	CONCRETE SAWCUTTING	LF	86

POTHOLE NOTES:

POTHOLE #6
APS ELECTRIC
UTILITY TOP=1405.92
2.5" PLASTIC CONDUIT PIPE
60+11.22, 70.38' RT

POTHOLE #6.1
CITY OF PHOENIX SPRINKLER, LANDSCAPE ELECTRIC, & TRAFFIC SIGNAL
UTILITY TOP=1408.12
MULTIPLE PLASTIC CONDUIT PIPES
60+13.46, 69.93' RT

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.11
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			28 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

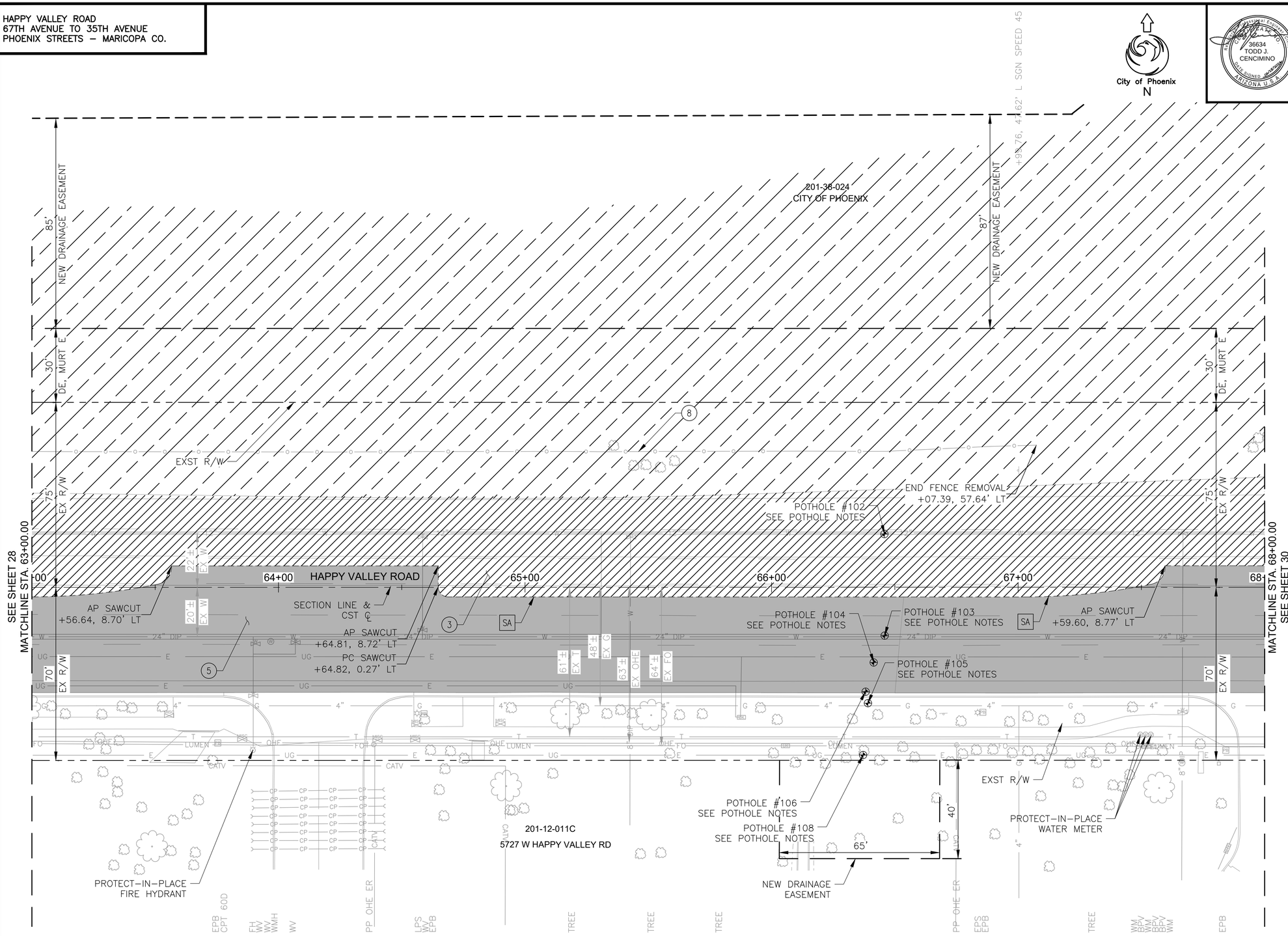
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437REM11.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	29	368	

06/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
(3)	REMOVE ASPHALT CONCRETE PAVEMENT	SY	2118
(5)	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	2393
(8)	REMOVE 6' CHAINLINK FENCE	LF	407
SA	ASPHALT SAWCUTTING	LF	522

POTHOLE NOTES:

POTHOLE #102
CITY OF PHOENIX WATER
UTILITY TOP=1402.75, 66+45.86, 21.54' LT
12" CONCRETE PIPE

POTHOLE #103
CITY OF PHOENIX WATER
UTILITY TOP=1397.90, 66+41.42, 19.54' RT
24" CONCRETE PIPE

POTHOLE #104
APS ELECTRIC
UTILITY TOP=1402.06, 66+41.06, 30.44' RT
(2) 5" PLASTIC CONDUIT

POTHOLE #105
SWG GAS
UTILITY TOP=1401.87, 66+39.10, 46.94' RT
5" PLASTIC PIPE

POTHOLE #106
CENTURY LINK TELEPHONE
UTILITY TOP=1401.05, 66+38.13, 42.30' RT
(4) 4.5" PLASTIC CONDUIT PIPES

POTHOLE #108
APS ELECTRIC
UTILITY TOP=1402.42, 66+37.13, 67.96' RT
3" & 1" PLASTIC CONDUIT PIPES

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.12
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			29 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

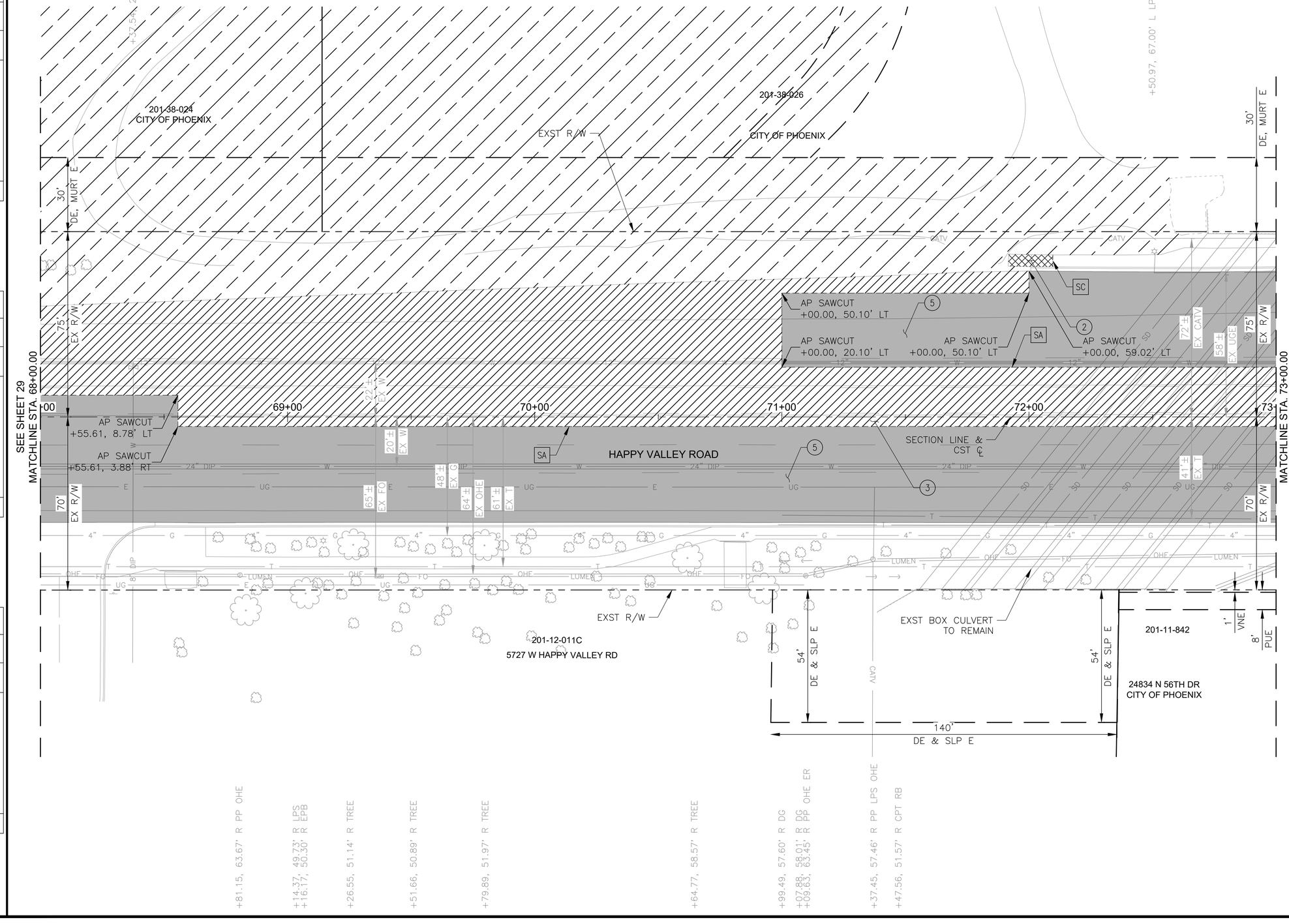
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437REM12.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	30	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
(2)	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	87
(3)	REMOVE ASPHALT CONCRETE PAVEMENT	SY	2348
(5)	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	3000
SA	ASPHALT SAWCUTTING	LF	852
SC	CONCRETE SAWCUTTING	LF	5

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

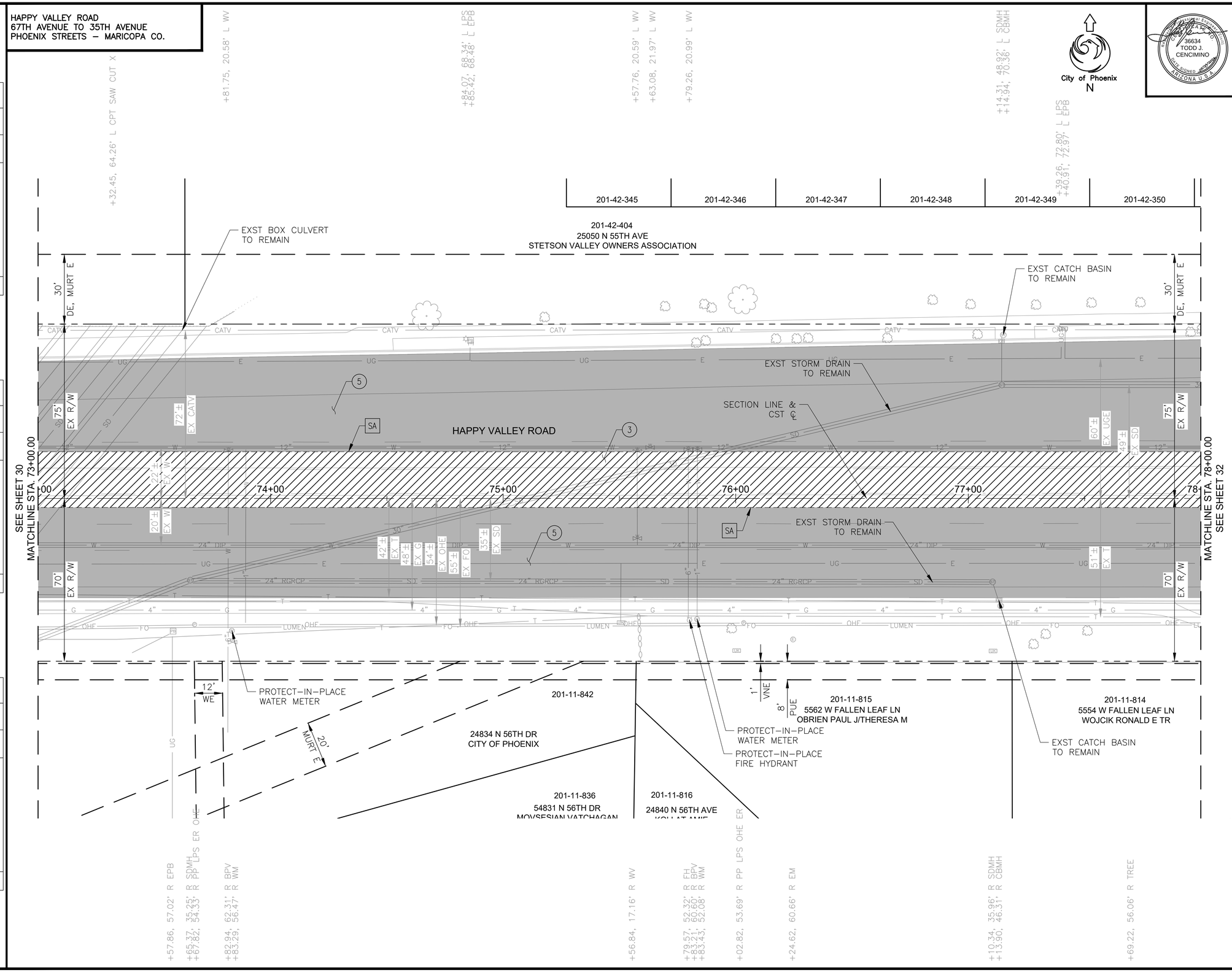
DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.13
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			30 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437REM13.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



City of Phoenix
N

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	31	368	

05/2024
DATE:

36634
TODD J.
CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA, U.S.A.

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
(3)	REMOVE ASPHALT CONCRETE PAVEMENT	SY	1333
(5)	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	4578
SA	ASPHALT SAWCUTTING	LF	1000

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
	REMOVE DECORATIVE BRICK PAVERS
	REMOVE ASPHALT CONCRETE PAVEMENT
	CLEAR & GRUB

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.14
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			31 OF 364

SHEET NAME: ST85100437REM14.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

+65.64, 73.82' L CPT RB
+78.05, 73.23' L SGN SPEED 45
+51.73, 75.10' L EPB
+52.79, 76.63' L EPB
+80.54, 48.69' L SDMH
+96.76, 85.79' L SGN BIKE LN
+99.79, 91.56' L EPB
+51.20, 94.24' L EPB
+83.64, 92.49' L TVPB
+87.04, 92.49' L TVPB
+92.87, 88.72' L EPB
+93.76, 88.56' L EPB
+99.23, 90.76' L EM
+94.45, 84.16' L SGN YIELD

City of Phoenix
N

201-42-351 | 201-42-352 | 201-42-353 | 201-42-354 | 201-42-355 | 201-42-356 | 201-42-357 | 201-42-358 | 201-42-359 | 201-42-360 | 201-42-361

201-42-404
25050 N 55TH AVE
STETSON VALLEY OWNERS ASSOCIATION

EXST STORM DRAIN TO REMAIN
EXST R/W
30' DE, MURT E
30'
5'
REMOVE TO NEAREST JOINT PAST BROKEN CURB & GUTTER
BRICK
SECTION LINE & CST ℄
75' EX R/W
90' EX R/W
VARIES EX R/W
70' EX R/W
49'± EX SD
61'± EX UGE
72'± EX CATV
68'± EX UGE
20'± EX W
46'± EX T
45'± EX G
51'± EX T
53'± EX OHE
54'± EX FO
46'± EX T
SEE SHEET 31 MATCHLINE STA. 78+00.00
SEE SHEET 33 MATCHLINE STA. 83+00.00
78+00 | 79+00 | 80+00 | 81+00 | 82+00 | 83+00
HAPPY VALLEY ROAD
SA | SC | 1 | 2 | 3 | 5

201-11-813
5546 W FALLEN LEAF LN
BAKER JOHN C/ANNA LORRAINE

EXST R/W
201-11-812
5538 W FALLEN LEAF LN
HART WILLIAM S SR/
BARBRA A

1' VNE
8' PUE

201-11-811
5528 W FALLEN LEAF LN
DOUGLAS SCOTT STOKES TRUST

201-11-810
5520 W FALLEN LEAF LN
KONZ PETER R

201-11-809
5512 W FALLEN LEAF LN
LOPEZ JOSEPH/ROSA

+34.06, 53.47' R PP OHE LPS
+40.09, 59.69' R TREE
+68.85, 55.42' R TREE
+19.33, 53.65' R TREE
+71.24, 58.55' R TREE
+97.10, 52.87' R TREE
+12.10, 50.50' R TREE
+29.93, 54.85' R TREE
+64.32, 53.47' R PP OHE LPS
+18.87, 52.48' R TREE
+46.62, 57.90' R TREE
+72.20, 43.53' R EPB
+82.13, 51.76' R TREE
+33.24, 56.86' R TREE
+86.27, 53.41' R PP OHE ER

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	32	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	73
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	288
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	901
5	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	5211
SA	ASPHALT SAWCUTTING	LF	1060
SC	CONCRETE SAWCUTTING	LF	10

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

REMOVAL PLAN

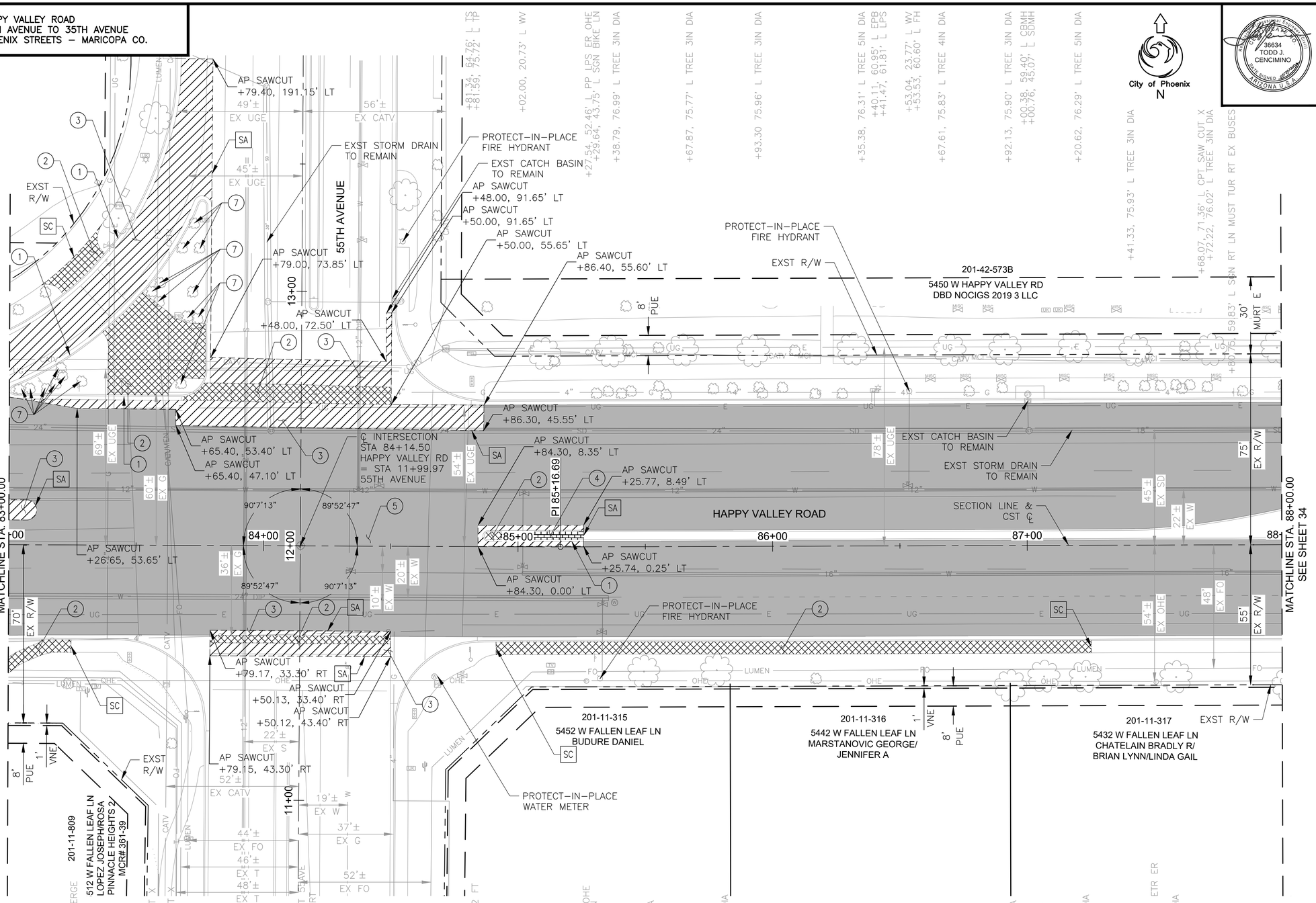
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.15
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			32 OF 364

SHEET NAME: ST85100437REM15.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	33	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO ARIZONA U.S.A.

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	558
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	3417
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	595
4	REMOVE DECORATIVE BRICK PAVERS	SF	100
5	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	4720
7	REMOVE EXISTING BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	17
SA	ASPHALT SAWCUTTING	LF	837
SC	CONCRETE SAWCUTTING	LF	51

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

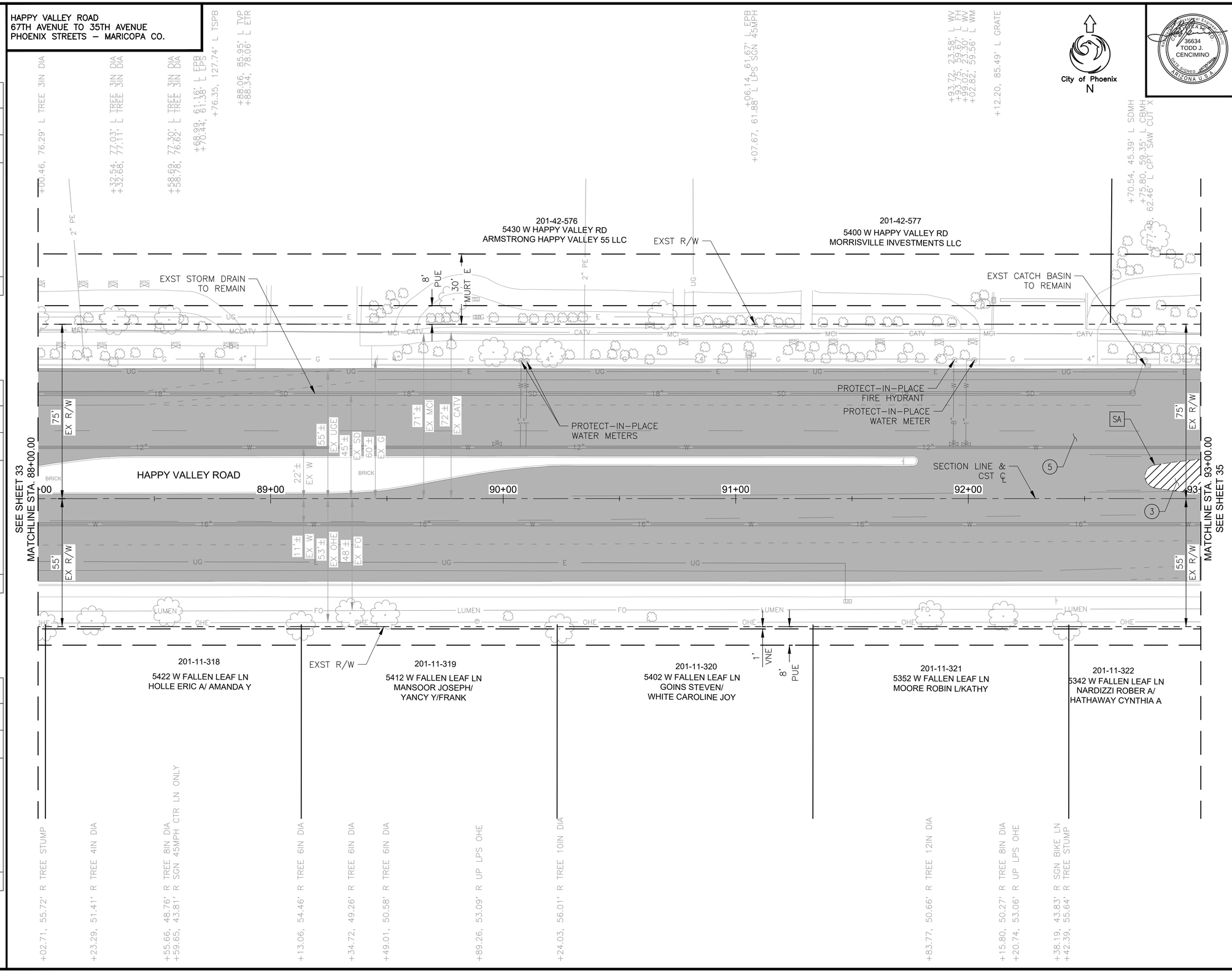
DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.16
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			33 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437REM16.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	34	368	

05/2024 DATE:

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

WILSON & COMPANY

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	31
5	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	4641
SA	ASPHALT SAWCUTTING	LF	54

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

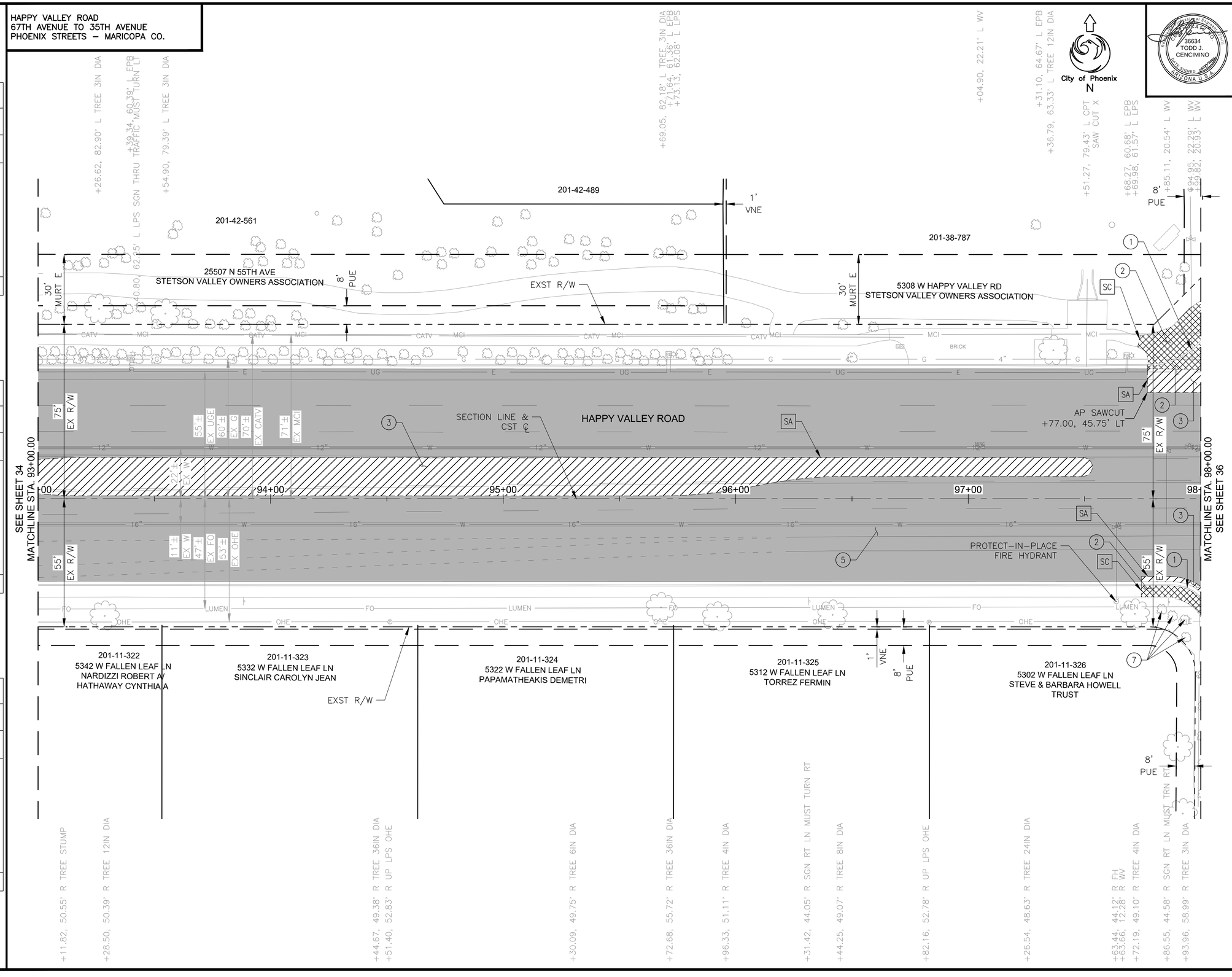
DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.17
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			34 OF 364

SHEET NAME: ST85100437REM17.DWG, PLOT DATE: 5/28/2024

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



City of Phoenix
N

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	35	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REGISTERED PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
ARIZONA U.S.A.

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	54
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	622
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	724
5	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	4356
7	REMOVE EXISTING BUSHES, SHURBS, CACTI, OR SMALL TREES	EA	4
SA	ASPHALT SAWCUTTING	LF	974
SC	CONCRETE SAWCUTTING	LF	14

GENERAL NOTES:

1. PROTECT-IN-PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ C.O.P. BM 1481: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 51ST AVENUE ELEV: 1420.08' (C.O.P. DATUM)

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ARIZONA811
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REMOVAL PLAN

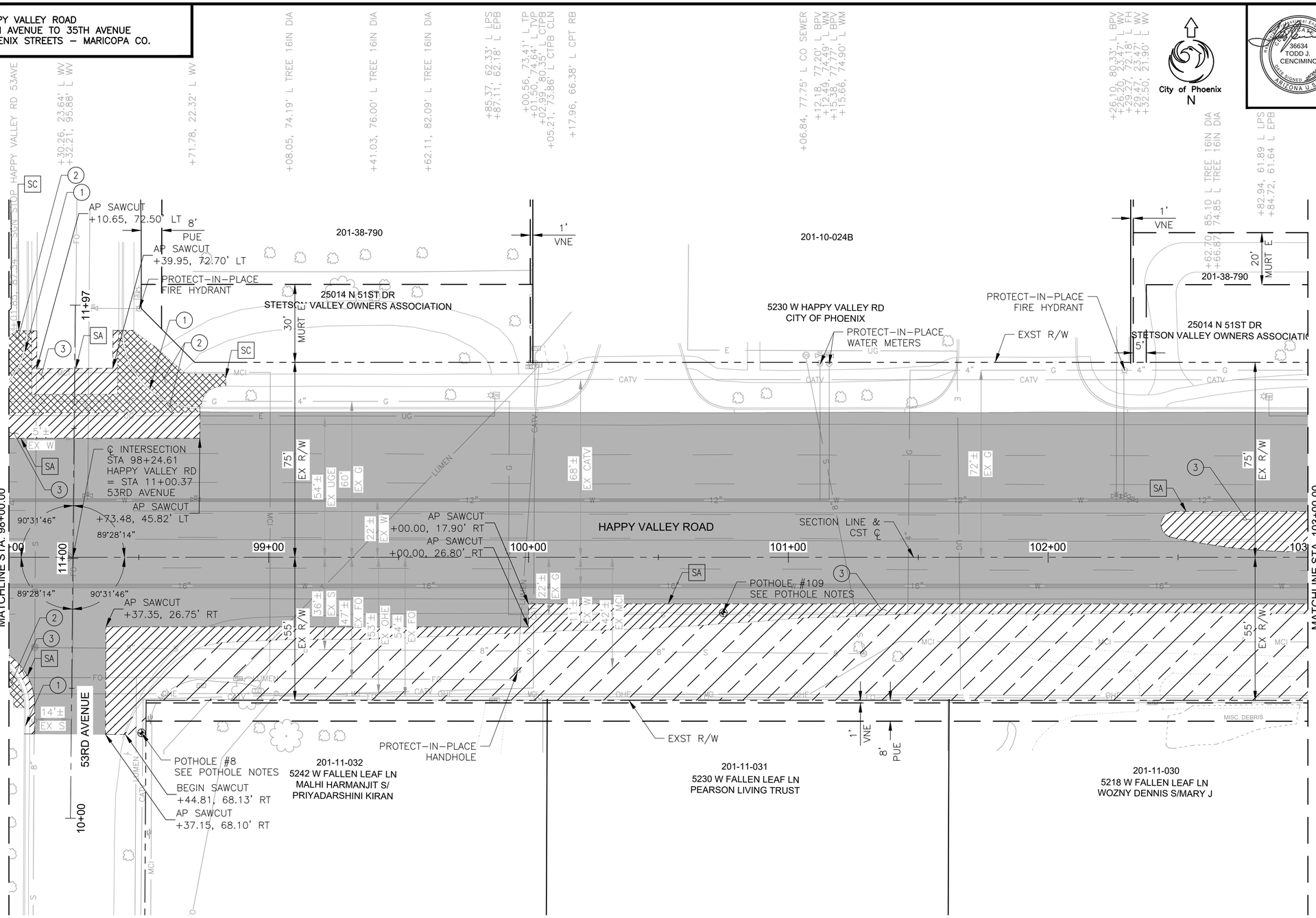
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-1.18
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			35 OF 364

SHEET NAME: ST85100437REM18.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	36	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	97
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	1321
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	562
5	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	4269
SA	ASPHALT SAWCUTTING	LF	822
SC	CONCRETE SAWCUTTING	LF	13

POTHOLE NOTES:

POTHOLE #8
COX TELEPHONE
UTILITY TOP=1418.55
2.5" PLASTIC CONDUIT PIPE
98+51.03, 67.97' RT

POTHOLE #109
SWG GAS
UTILITY TOP=1417.39
4.5" PLASTIC PIPE
100+74.96, 21.32' RT

GENERAL NOTES:

1. PROTECT-IN-PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ C.O.P. BM 1481: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 51ST AVENUE ELEV: 1420.08' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

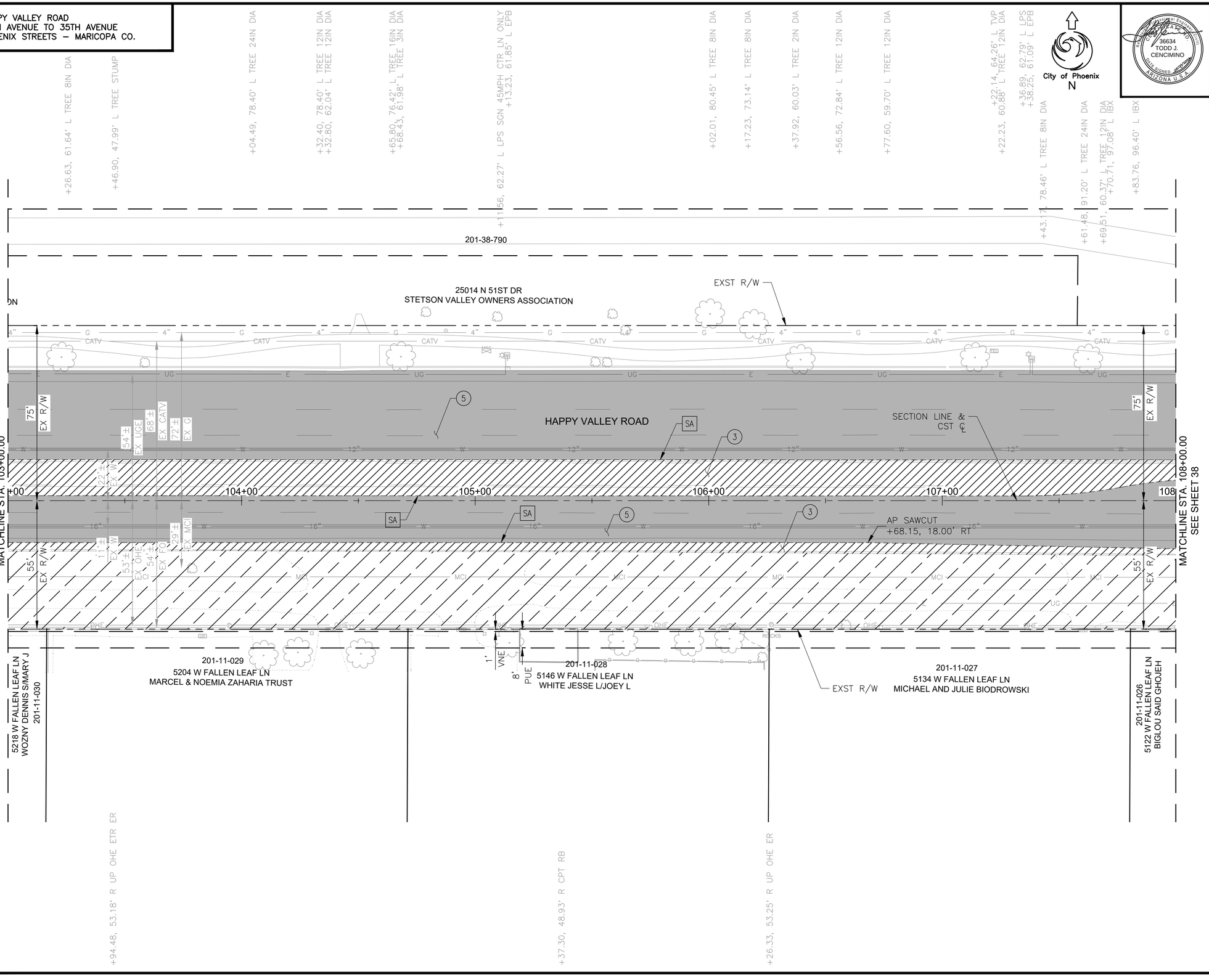
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-1.19
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			36 OF 364

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437REM19.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	37	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
(3)	REMOVE ASPHALT CONCRETE PAVEMENT	SY	1053
(5)	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	3274
SA	ASPHALT SAWCUTTING	LF	1500

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ C.O.P. BM 1481: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 51ST AVENUE ELEV: 1420.08' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.20
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			37 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

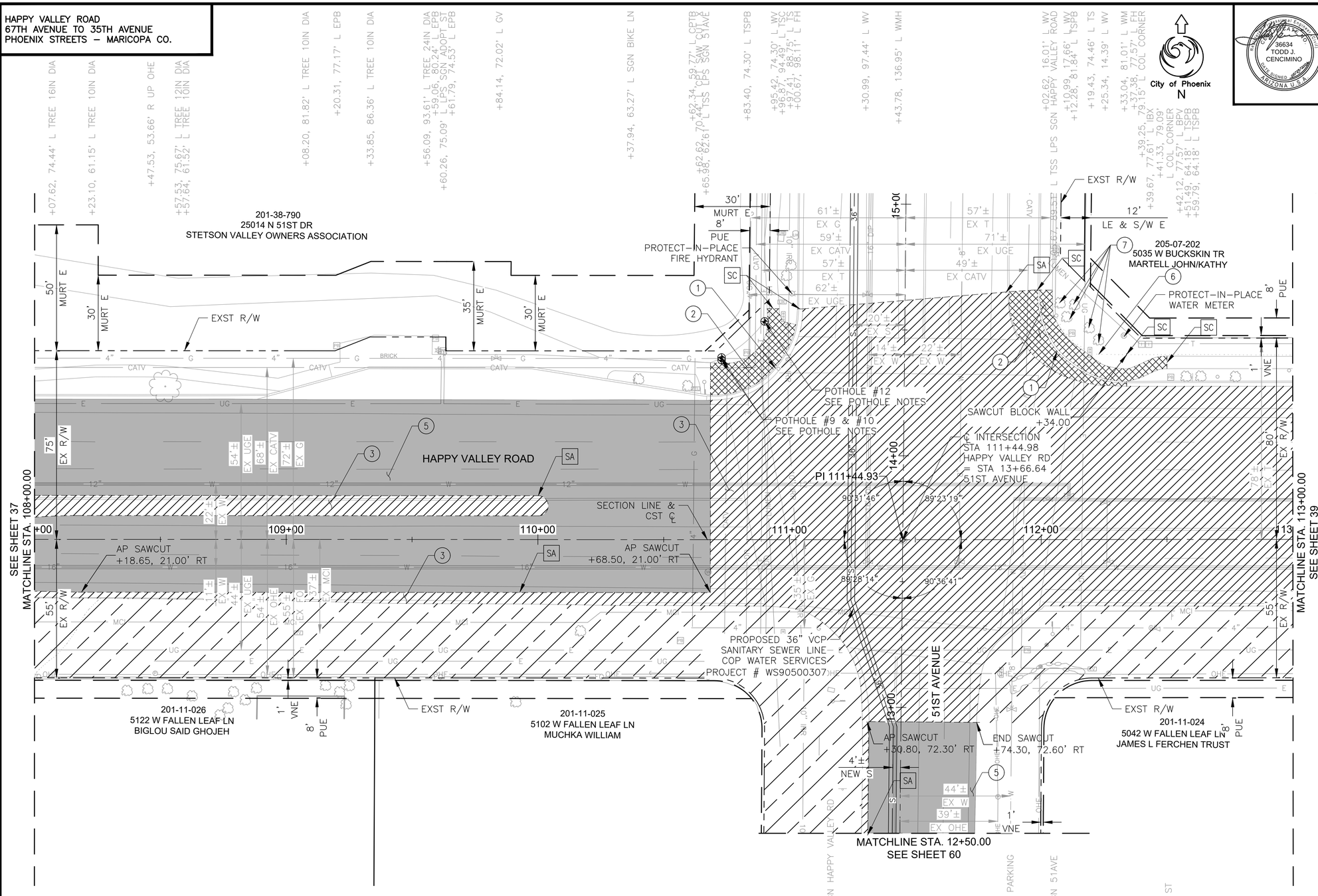
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437REM20.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

36634
TODD J. CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	38	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	112
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	1265
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	3207
5	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	2318
6	REMOVE BLOCK WALL	LF	12
7	REMOVE EXISTING BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	5
SA	ASPHALT SAWCUTTING	LF	929
SC	CONCRETE SAWCUTTING	LF	48

POTHOLE NOTES:

POTHOLE #9
SWG GAS
UTILITY TOP=1417.97
4.5" PLASTIC PIPE
110+72.91, 72.40' LT

POTHOLE #10
COX CABLE TELEVISION
UTILITY TOP=1420.01
2.5" PLASTIC CONDUIT PIPE
110+72.94, 71.33' LT

POTHOLE #12
APS ELECTRIC
UTILITY TOP=1420.26
(2) 2 1/2" & (6) 2" PLASTIC CONDUIT PIPES
110+90.01, 86.75' LT

GENERAL NOTES:

1. PROTECT-IN-PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ C.O.P. BM 1481: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 51ST AVENUE ELEV: 1420.08' (C.O.P. DATUM)

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REMOVAL PLAN

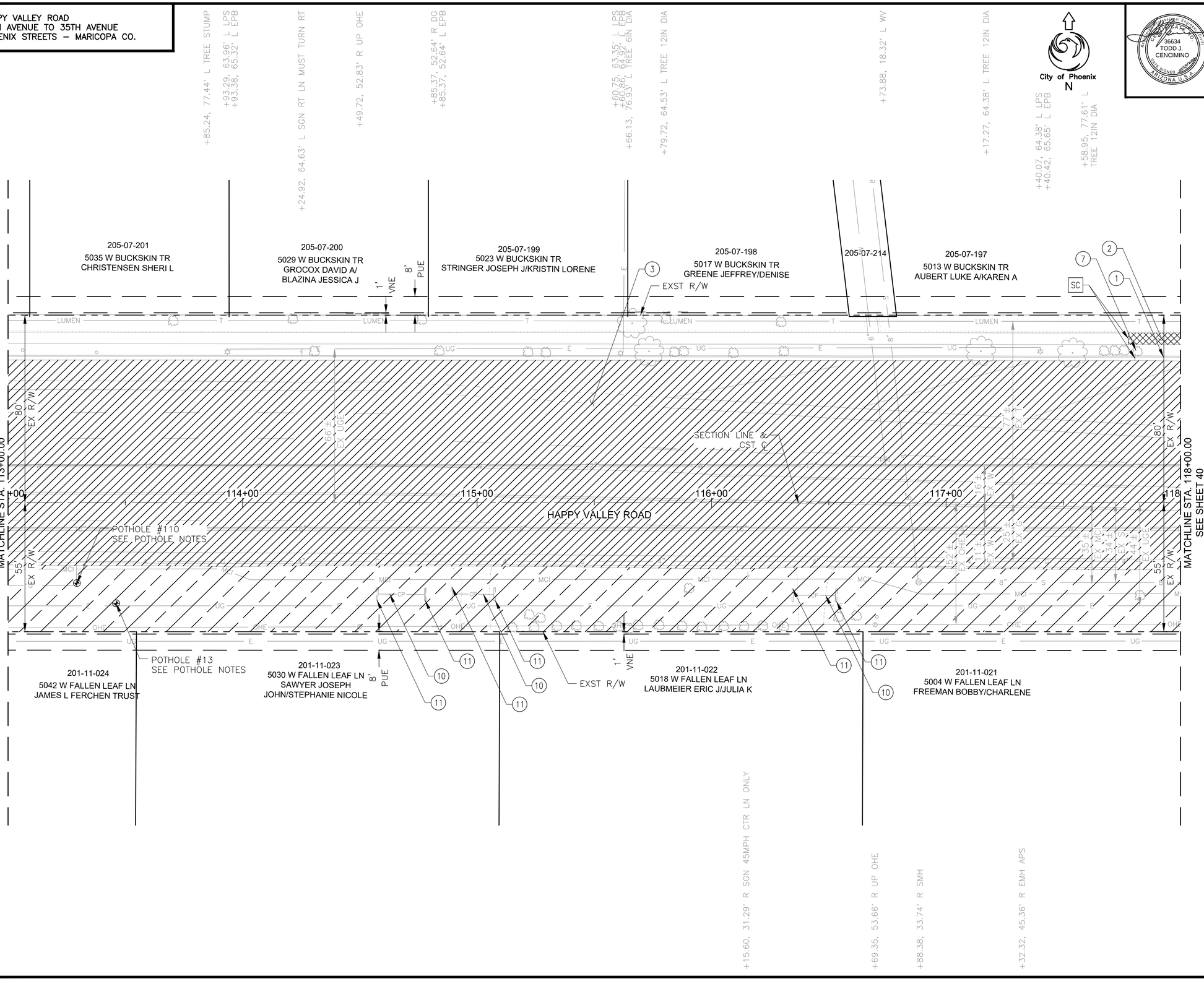
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-1.21
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			38 OF 364

SHEET NAME: ST85100437REM21.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	39	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	20
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	110
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	4900
7	REMOVE EXISTING BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	1
10	REMOVE PIPE	LF	55
11	REMOVE HEADWALL	EA	6
SC	CONCRETE SAWCUTTING	LF	7

POTHOLE NOTES:

POTHOLE #13
APS ELECTRIC
UTILITY TOP=1414.97
24" CONCRETE ENCASEMENT
113+46.05, 42.92' RT

POTHOLE #110
SWG GAS
UTILITY TOP=1416.10
4.5" PLASTIC PIPE
113+29.34, 34.31' RT

GENERAL NOTES:

1. PROTECT-IN-PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
	REMOVE DECORATIVE BRICK PAVERS
	REMOVE ASPHALT CONCRETE PAVEMENT
	CLEAR & GRUB

▲ C.O.P. BM 1481: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 51ST AVENUE ELEV: 1420.08' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

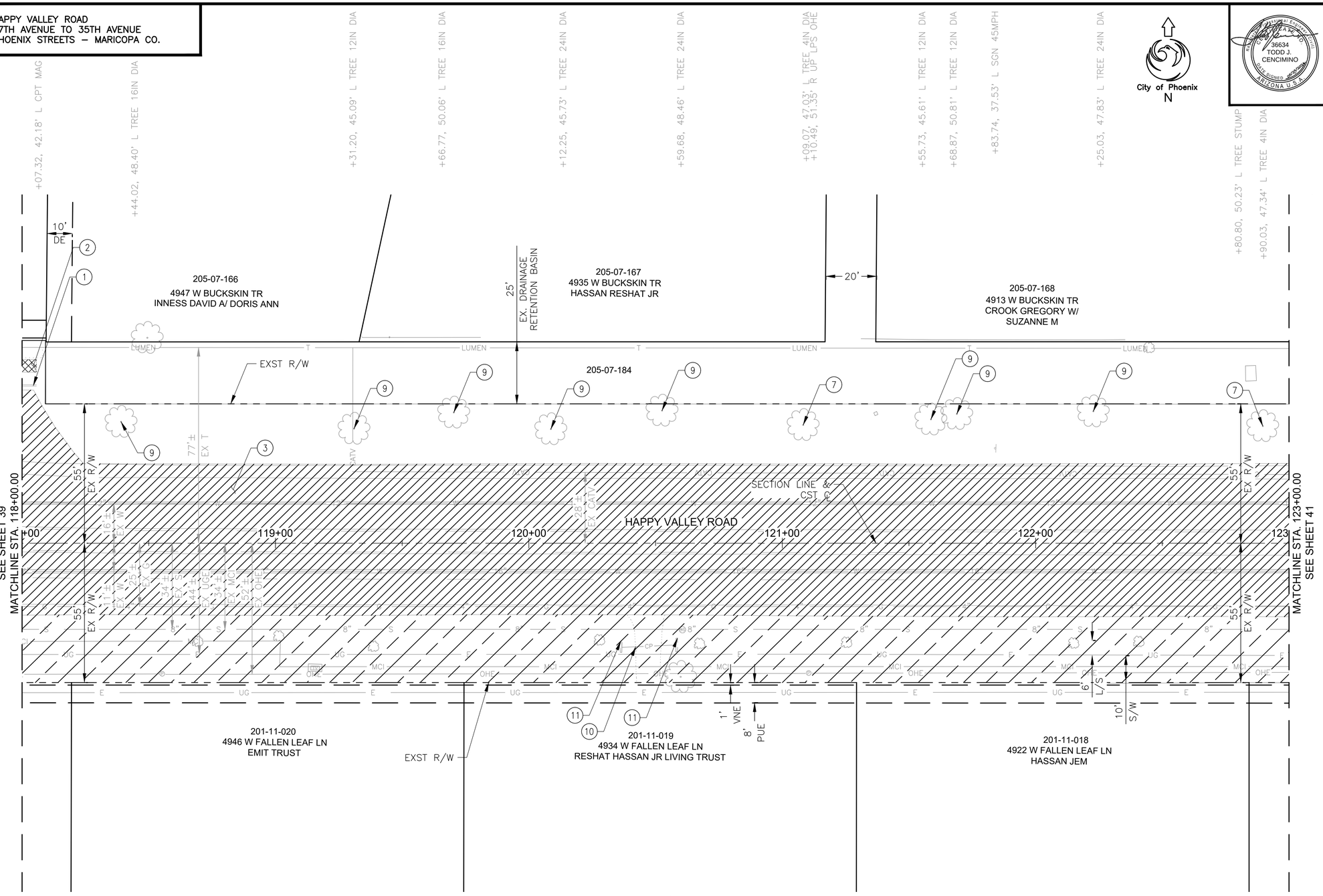
DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-1.22
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			39 OF 364

SHEET NAME: ST85100437REM22.DWG, PLOT DATE: 5/28/2024

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



City of Phoenix
N

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	40	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REGISTERED PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
ARIZONA U.S.A.

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	6
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	28
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	3370
7	REMOVE EXISTING BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	2
9	REMOVE TREE, 12" DIAMETER AND LARGER	EA	8
10	REMOVE PIPE	LF	21
11	REMOVE HEADWALL	EA	2

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
	REMOVE DECORATIVE BRICK PAVERS
	REMOVE ASPHALT CONCRETE PAVEMENT
	CLEAR & GRUB

▲ C.O.P. BM 1481: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 51ST AVENUE ELEV: 1420.08' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

REMOVAL PLAN

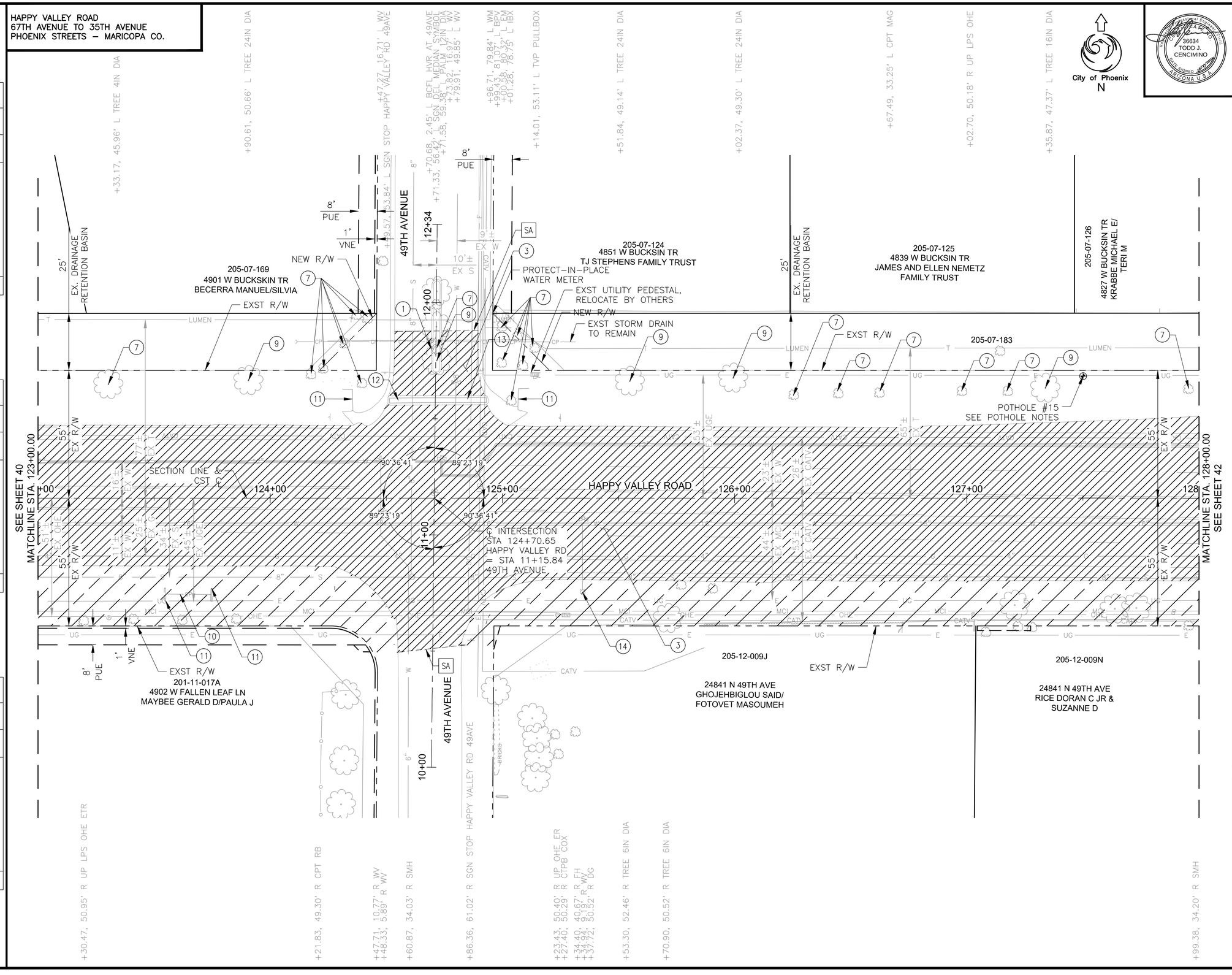
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.23
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			40 OF 364

SHEET NAME: ST85100437REM23.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	41	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO REGISTERED ARIZONA U.S.A.

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
(1)	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	39
(3)	REMOVE ASPHALT CONCRETE PAVEMENT	SY	3913
(7)	REMOVE EXISTING BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	20
(9)	REMOVE TREE 12" DIAMETER AND LARGER	EA	5
(10)	REMOVE PIPE	LF	20
(11)	REMOVE HEADWALL	EA	4
(12)	REMOVE PIPE, SLURRY BACKFILL, AND COMPACT	LF	144
(13)	REMOVE CATCH BASIN, BACKFILL, AND COMPACT	EA	1
(14)	REMOVE EXISTING FIRE HYDRANT	EA	1
SA	ASPHALT SAWCUTTING	LF	64

POTHOLE NOTES:

POTHOLE #15
APS ELECTRIC
UTILITY TOP=1414.12
2.5" & (3) 2" PLASTIC CONDUIT PIPES
127+50.07, 52.48' LT

GENERAL NOTES:

1. PROTECT-IN-PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ C.O.P. BM 1507: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 47TH AVENUE ELEV: 1411.07' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

REMOVAL PLAN

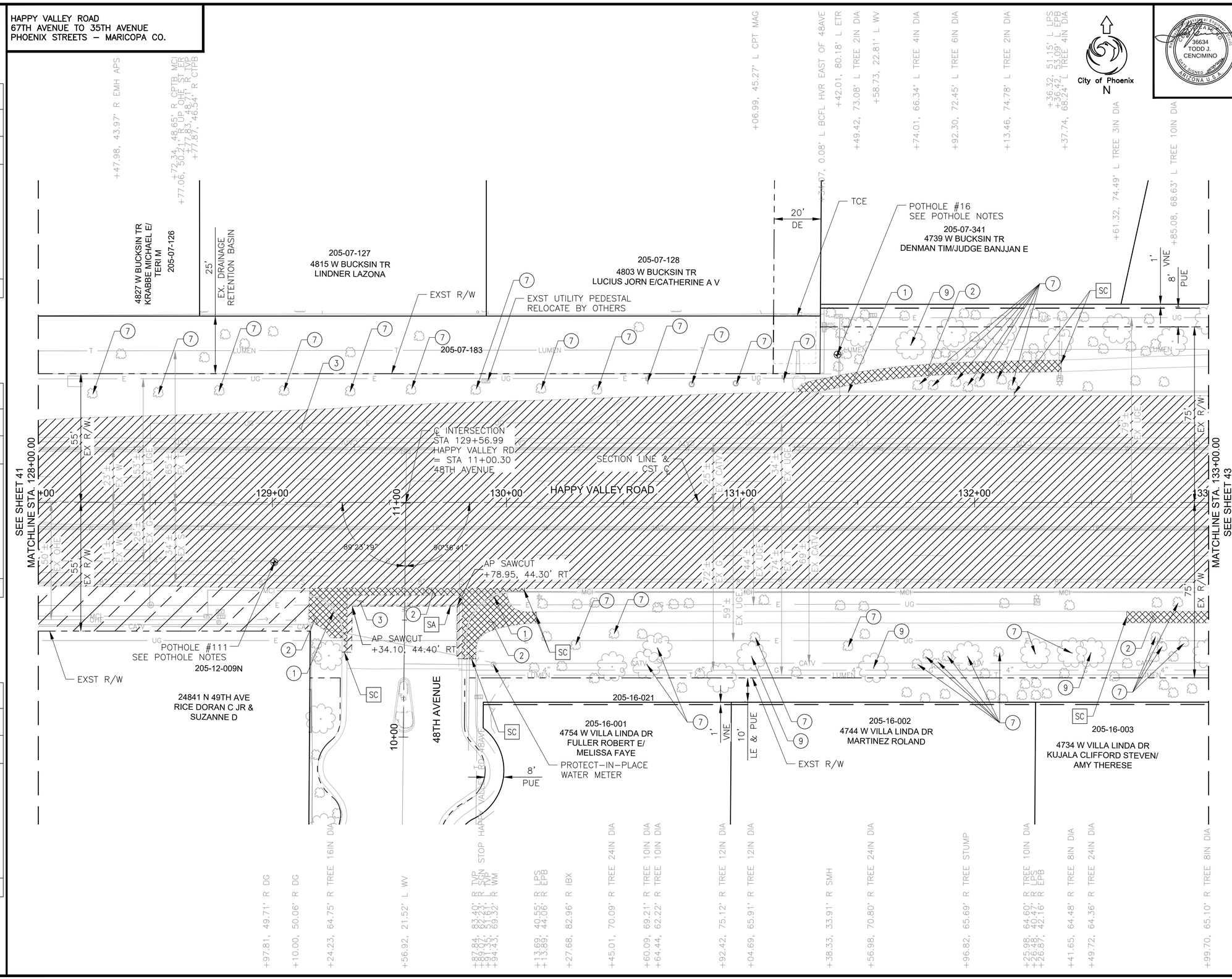
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-1.24
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			41 OF 364

SHEET NAME: ST85100437REM24.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	42	368	

05/2024 DATE:

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO REGISTERED LAND SURVEYOR ARIZONA U.S.A.

WILSON & COMPANY

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	161
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	1659
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	4453
7	REMOVE EXISTING, BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	38
9	REMOVE TREE, 12" DIAMETER AND LARGER	EA	4
SA	ASPHALT SAWCUTTING	LF	91
SC	CONCRETE SAWCUTTING	LF	20

POTHOLE NOTES:

POTHOLE #16
APS ELECTRIC
UTILITY TOP=1413.51
2.5" & (3) 2" PLASTIC CONDUIT PIPES
131+14.43, 63.14' LT

POTHOLE #111
SWG GAS
UTILITY TOP=1412.23
4.5" PLASTIC PIPE
129+00.82, 25.60' RT

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ BM 1507: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 47TH AVENUE ELEV: 1411.07' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

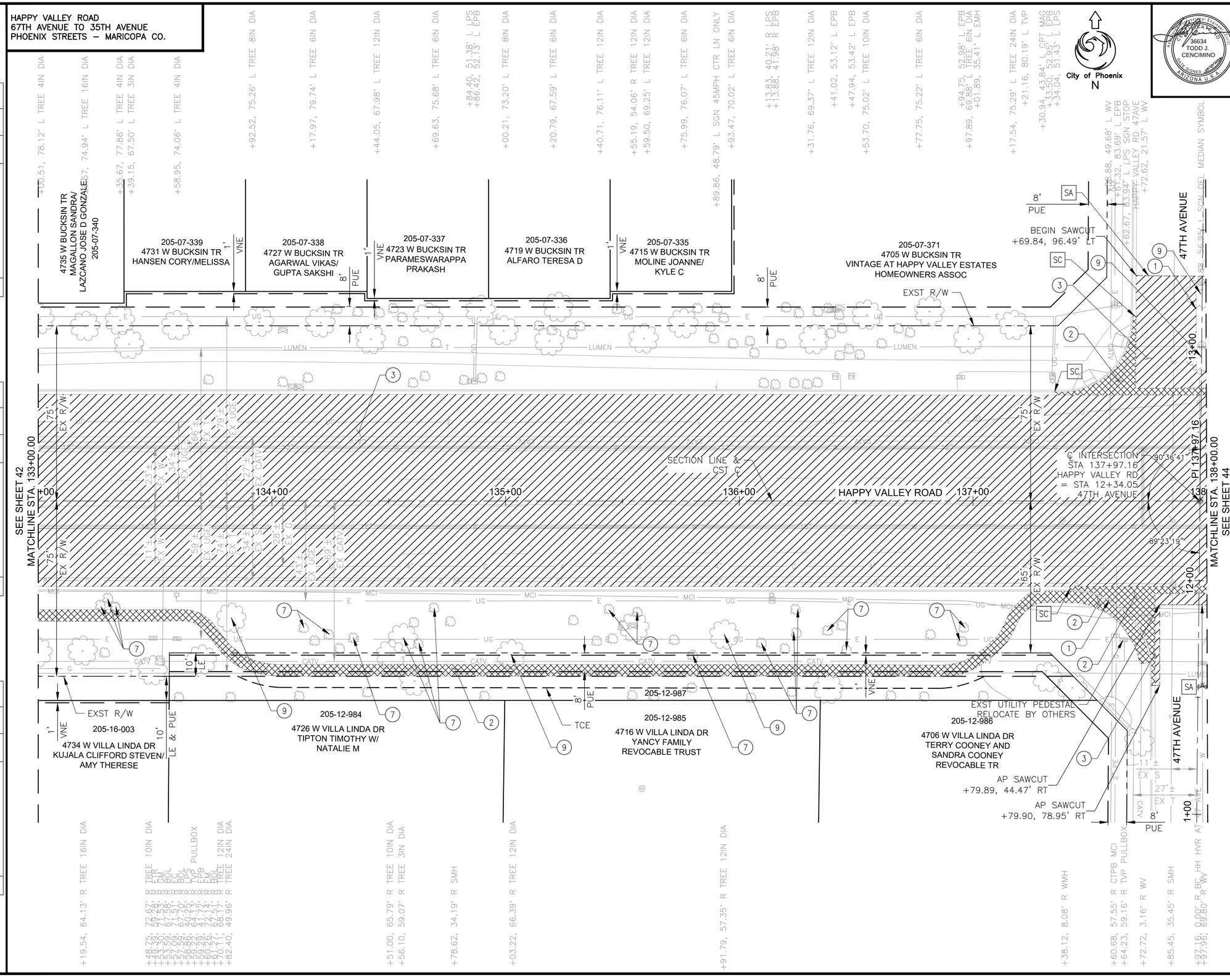
DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.25
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			42 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437REM25.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	43	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634
TODD J.
CENCIMINO
REGISTERED ARIZONA U.S.A.

City of Phoenix
N

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	112
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	3322
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	4726
7	REMOVE EXISTING BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	19
9	REMOVE TREE, 12" DIAMETER AND LARGER	EA	5
SA	ASPHALT SAWCUTTING	LF	87
SC	CONCRETE SAWCUTTING	LF	8

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ BM 1507: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 47TH AVENUE ELEV: 1411.07' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
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REMOVAL PLAN

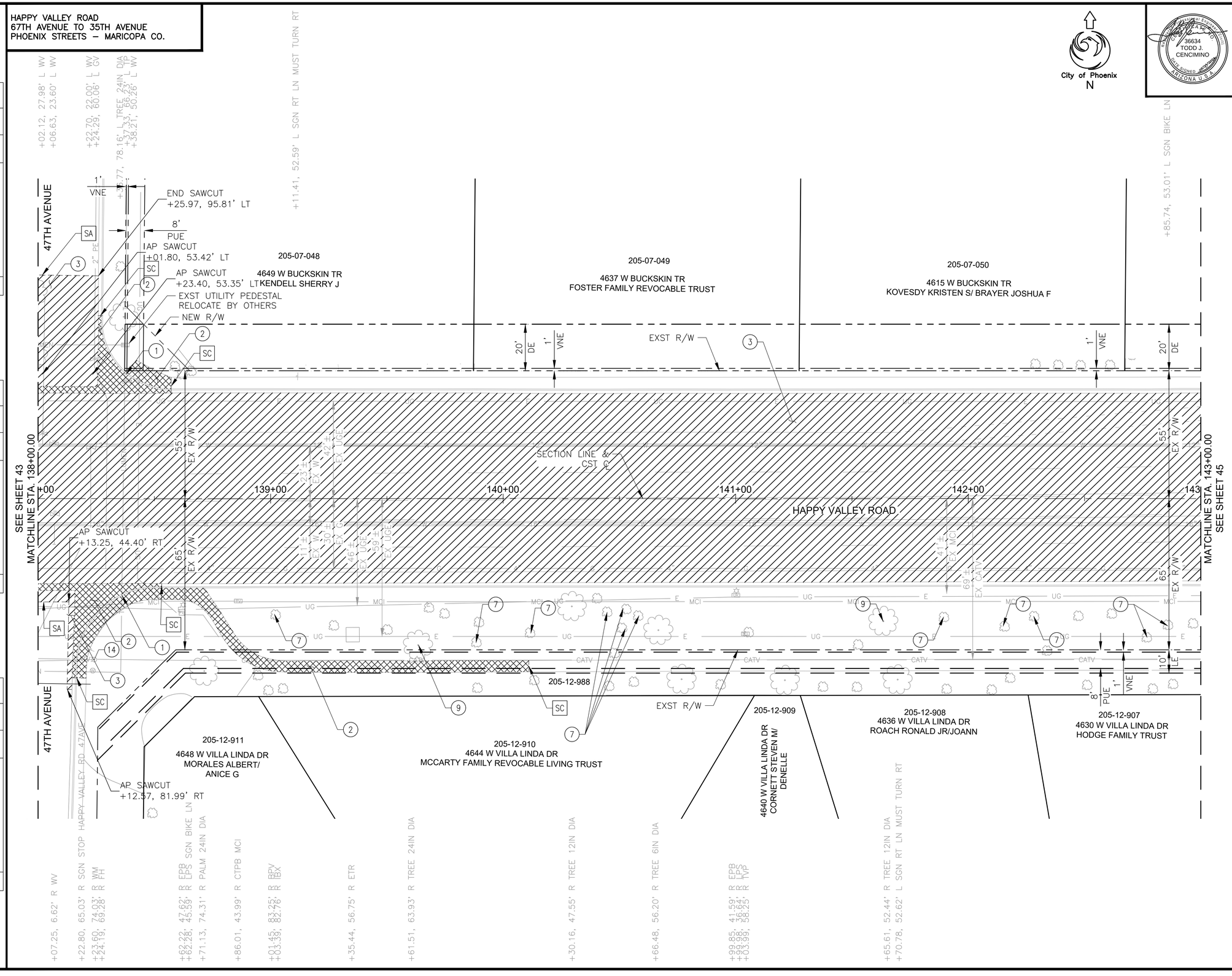
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.26
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			43 OF 364

SHEET NAME: ST85100437REM26.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	44	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA, U.S.A.

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	110
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	1998
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	4678
7	REMOVE EXISTING BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	12
9	REMOVE TREE, 12" DIAMETER AND LARGER	EA	2
14	REMOVE EXISTING FIRE HYDRANT	EA	1
SA	ASPHALT SAWCUTTING	LF	79
SC	CONCRETE SAWCUTTING	LF	22

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ BM 1507: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 47TH AVENUE ELEV: 1411.07' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation. ARIZONA811 Call 811 or click Arizona811.com

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

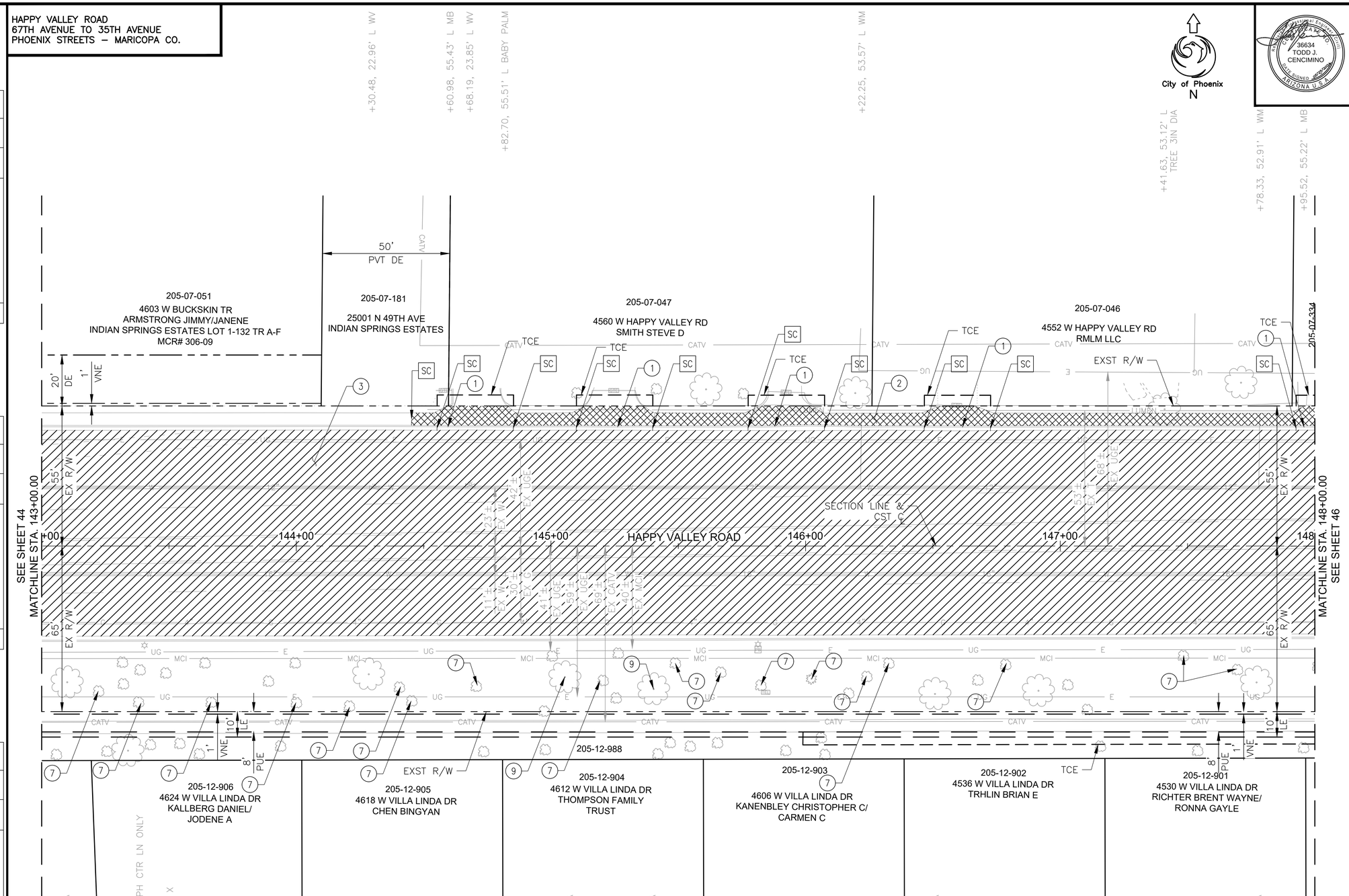
DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.27
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			44 OF 364

REVISION BY CITY OF PHOENIX

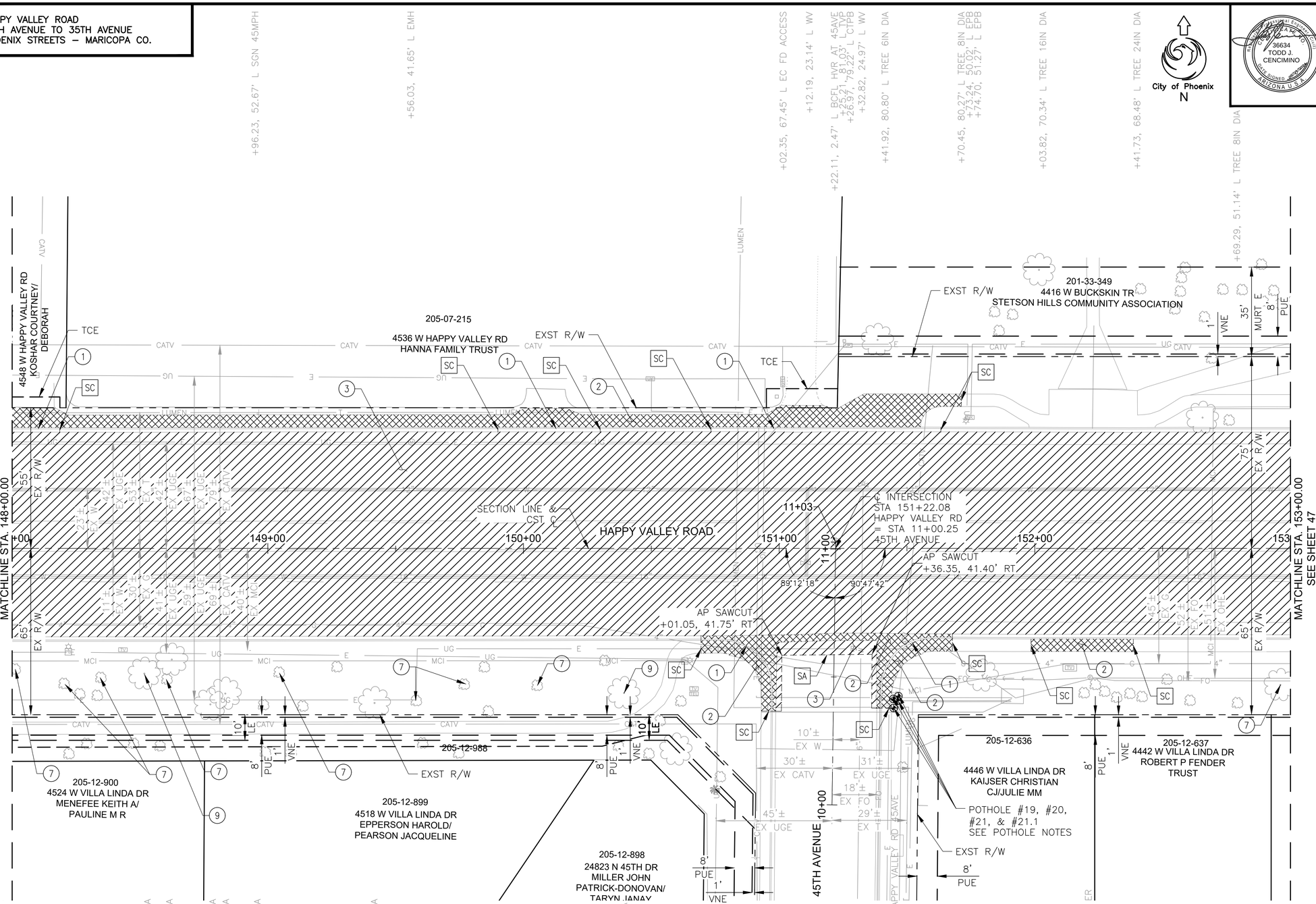
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437REM27.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.


+30.48, 22.96' L WV
+60.98, 55.43' L MB
+68.19, 23.85' L WV
+82.70, 55.51' L BABY PALM
+22.25, 53.57' L WM
+41.63, 53.12' L TREE 3IN DIA
+78.33, 52.91' L WM
+95.52, 55.22' L MB
City of Phoenix
N
50' PVT DE
CATV
205-07-051
4603 W BUCKSKIN TR
ARMSTRONG JIMMY/JANENE
INDIAN SPRINGS ESTATES LOT 1-132 TR A-F
MCR# 306-09
205-07-181
25001 N 49TH AVE
INDIAN SPRINGS ESTATES
205-07-047
4560 W HAPPY VALLEY RD
SMITH STEVE D
205-07-046
4552 W HAPPY VALLEY RD
RMLM LLC
205-07-334
20' DE
1' VNE
TCE
SC
EXST R/W
LIMEN
55' EX R/W
65' EX R/W
SECTION LINE & CST
HAPPY VALLEY ROAD
144+00
145+00
146+00
147+00
148
+00
143+00.00
148+00.00
SEE SHEET 44
MATCHLINE STA. 143+00.00
SEE SHEET 46
MATCHLINE STA. 148+00.00
11' ± EX WM
42" ± EX WM
EX 30" ± CI
EX 16" ± CI
EX 12" ± VCP
EX 8" ± VCP
EX 6" ± VCP
EX 8" ± CI
EX 12" ± CI
EX 8" ± CATV
EX 4" ± CATV
EX 4" ± MCI
EX 6" ± CI
EX 10" ± CI
EX 8" ± CI
EX 6" ± CI
EX 8" ± CI
EX 6" ± CI
EX 8" ± CI
EX 6

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	46	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634
TODD J.
CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
(1)	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	246
(2)	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	3314
(3)	REMOVE ASPHALT CONCRETE PAVEMENT	SY	4450
(7)	REMOVE EXISTING BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	9
(9)	REMOVE TREE, 12" DIAMETER AND LARGER	EA	2
SA	ASPHALT SAWCUTTING	LF	82
SC	CONCRETE SAWCUTTING	LF	49

POTHOLE NOTES:

POTHOLE #19
APS ELECTRIC
UTILITY TOP=1399.70
(4) 2.5" PLASTIC CONDUIT PIPES
151+44.67, 58.86' RT

POTHOLE #20
CENTURYLINK TELEPHONE
UTILITY TOP=1399.57
2.5" PLASTIC CONDUIT
151+44.77, 62.44' RT

POTHOLE #21
COX CABLE TELEVISION
UTILITY TOP=1400.03
(2) 2.5" PLASTIC CONDUIT
151+46.64, 57.78' RT

POTHOLE #21.1
CITY OF PHOENIX WATER
UTILITY TOP=1399.31
7" PLASTIC CONDUIT PIPE
151+46.31, 59.57' RT

GENERAL NOTES:

1. PROTECT-IN-PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ BM 1507: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 47TH AVENUE ELEV: 1411.07' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-1.29
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			46 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437REM29.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

+15.75, 52.16' L EPB
+17.10, 50.37' L LPS
+45.03, 64.38' L IBX
+46.90, 64.38' L IBX
+71.43, 65.01' L TREE 10IN DIA
+86.30, 60.07' L CPT SAW CUT X
+29.40, 51.78' L TREE 12IN DIA
+27.26, 52.58' L EPB
+28.05, 50.48' L LPS
+39.21, 51.52' L TREE 6IN DIA
+33.14, 52.56' L TREE 4IN DIA
+46.31, 66.83' L TREE 6IN DIA
+59.32, 52.40' L TREE 8IN DIA
+84.26, 51.79' L TREE 12IN DIA
+05.22, 66.83' L TREE 6IN DIA
+38.73, 51.72' L EPB
+39.41, 50.30' L LPS
+62.65, 79.84' L TYP
+66.61, 79.65' L TREE 12IN DIA
+66.38, 72.78' L CTPB

City of Phoenix
N

201-33-349
4416 W BUCKSKIN TR
STETSON HILLS COMMUNITY ASSOCIATION

35' MURT E
1' VNE
8' PUE
EXST R/W
CATV
UG
E
MCI
3

75' EX R/W
178'± EX CATV
23'± EX W
60'± EX UGE
51'± EX MCI
65' EX R/W
111'± EX W
45'± EX G
51'± OHE
52'± EX FO

HAPPY VALLEY ROAD
SECTION LINE & CST ℄

+00 154+00 155+00 156+00 157+00 158

SEE SHEET 46
MATCHLINE STA. 153+00.00

SEE SHEET 48
MATCHLINE STA. 158+00.00

7
4" G
OHE FO
PHF

205-12-638
4438 W VILLA LINDA DR
WILLINGHAM FAMILY
LIVING TRUST

205-12-639
4432 W VILLA LINDA DR
BUTTS THOMAS A/
CYNTHIA A

205-12-640
4426 W VILLA LINDA DR
ARROWOOD ROY
THERESA M

205-12-641
4420 W VILLA LINDA DR
DRAPEAU PATRICK G/
COZETTE M

205-12-642
4414 W VILLA LINDA DR
BRYANT
CHRISTOPHER/CHRISTINE

205-12-643
4408 W VILLA LINDA DR
LAY DANIEL E/
COLLEEN D

205-12-644
4404 W VILLA LINDA DR
BOYD SUMMER RENA/
MOYNIHAN JASON EARL

EXST R/W

+44.68, 55.53' R TREE 6IN DIA
+09.60, 52.88' R TREE 6IN DIA
+30.70, 51.23' R UP LPS OHE
+06.28, 53.32' R TREE 8IN DIA
+18.22, 54.34' R TREE 12IN DIA
+28.40, 53.88' R TREE 4IN DIA

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	47	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REGISTERED PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
ARIZONA U.S.A.

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	4430
7	REMOVE EXISTING BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	13

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
	REMOVE DECORATIVE BRICK PAVERS
	REMOVE ASPHALT CONCRETE PAVEMENT
	CLEAR & GRUB

▲ BM 1507: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 47TH AVENUE ELEV: 1411.07' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

REMOVAL PLAN

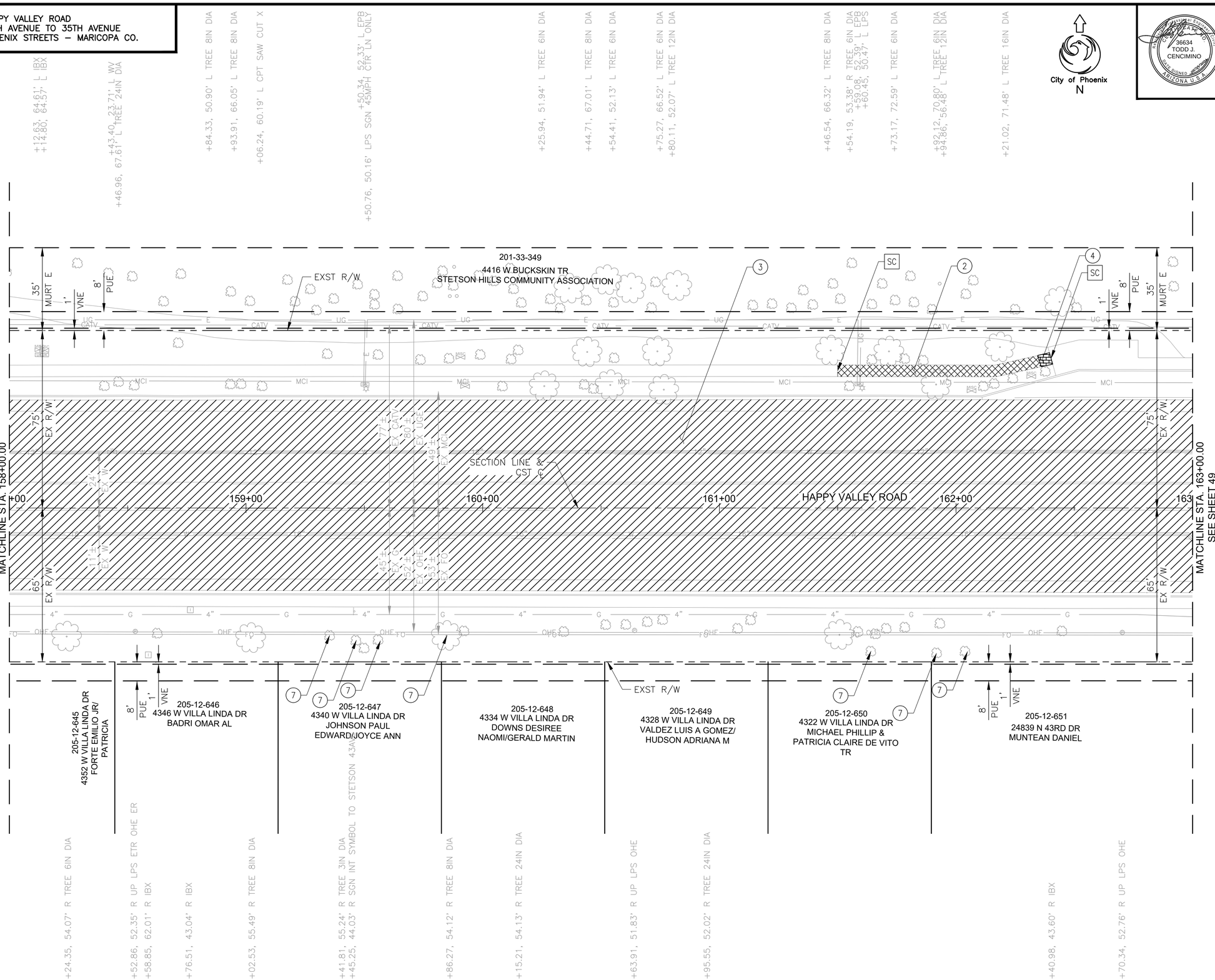
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.30
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			47 OF 364

SHEET NAME: ST85100437REM30.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	48	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REGISTERED PROFESSIONAL ENGINEER 36634 TODD J. CENCIMINO CERTIFICATE NOT VALID UNLESS SIGNED AND DATED ARIZONA U.S.A.

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	419
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	4490
4	REMOVE DECORATIVE BRICK PAVERS	SF	27
7	REMOVE EXISTING BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	7
SC	CONCRETE SAWCUTTING	LF	10

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation. ARIZONA811 Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.31
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			48 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

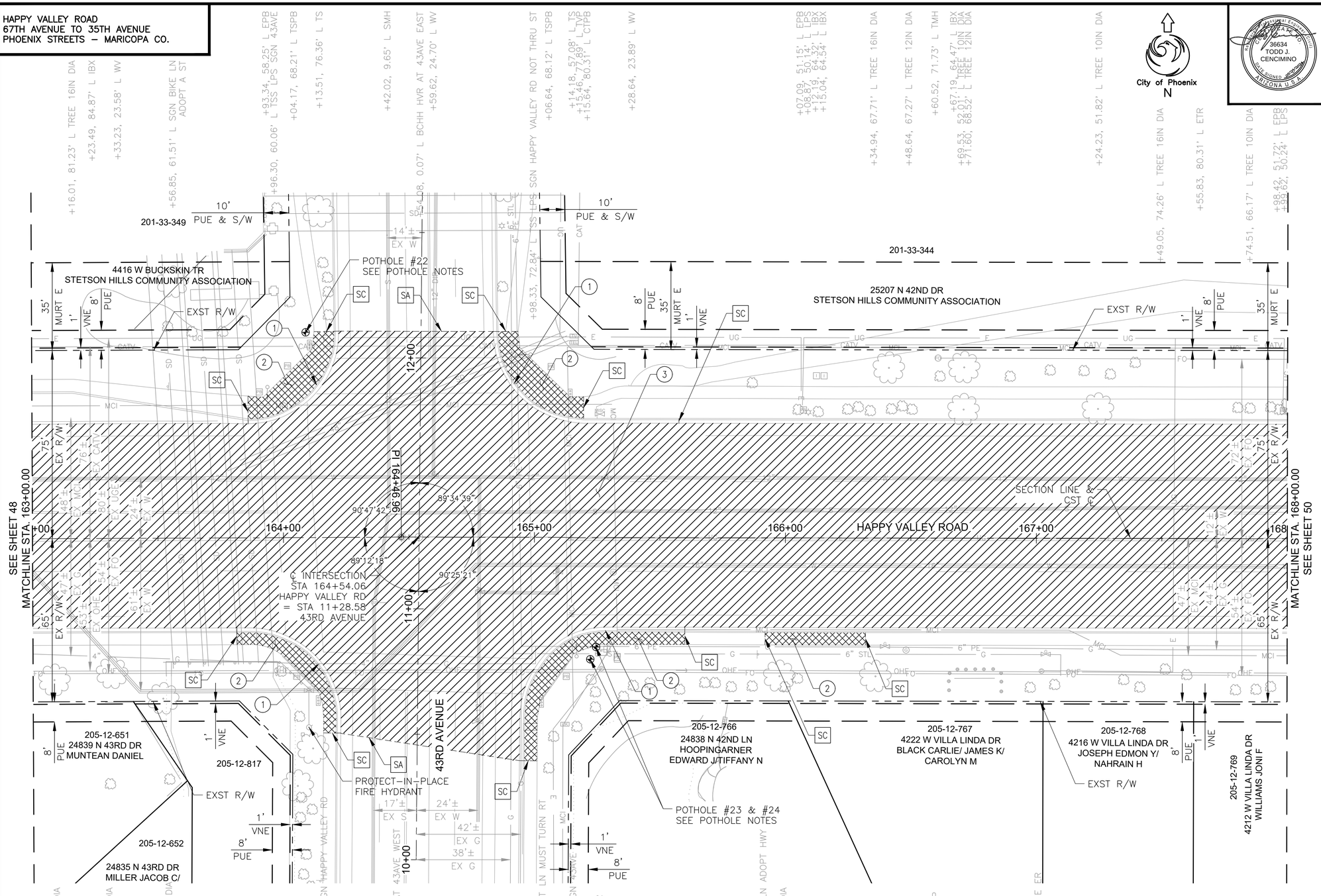
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437REM31.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	49	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO REGISTERED ARCHITECT ARIZONA U.S.A.

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	320
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	1990
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	5274
SA	ASPHALT SAWCUTTING	LF	131
SC	CONCRETE SAWCUTTING	LF	77

POTHOLE NOTES:

POTHOLE #22
COX CABLE TELEVISION
UTILITY TOP=1394.87
(3) 4.5" PLASTIC CONDUIT PIPES
164+09.18, 81.75' LT

POTHOLE #23
APS ELECTRIC
UTILITY TOP=1395.62
(4) 3.5" PLASTIC CONDUIT PIPES
165+22.33, 48.58' RT

POTHOLE #24
SWG GAS
UTILITY TOP=1393.17
6.5" PLASTIC PIPE
165+24.63, 43.69' RT

GENERAL NOTES:

1. PROTECT-IN-PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
	REMOVE DECORATIVE BRICK PAVERS
	REMOVE ASPHALT CONCRETE PAVEMENT
	CLEAR & GRUB

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

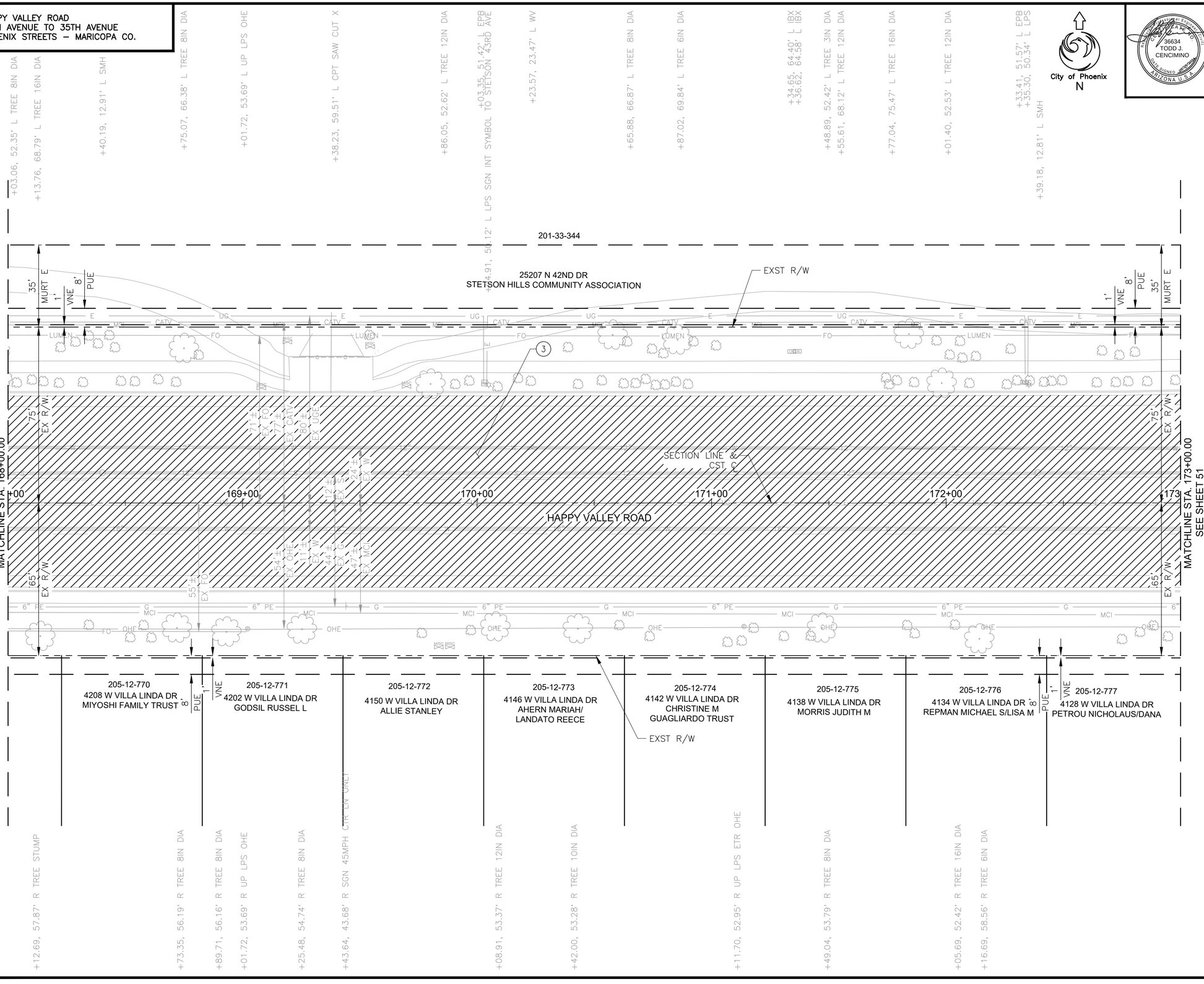
DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-1.32
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			49 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437REM32.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	50	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	4537

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

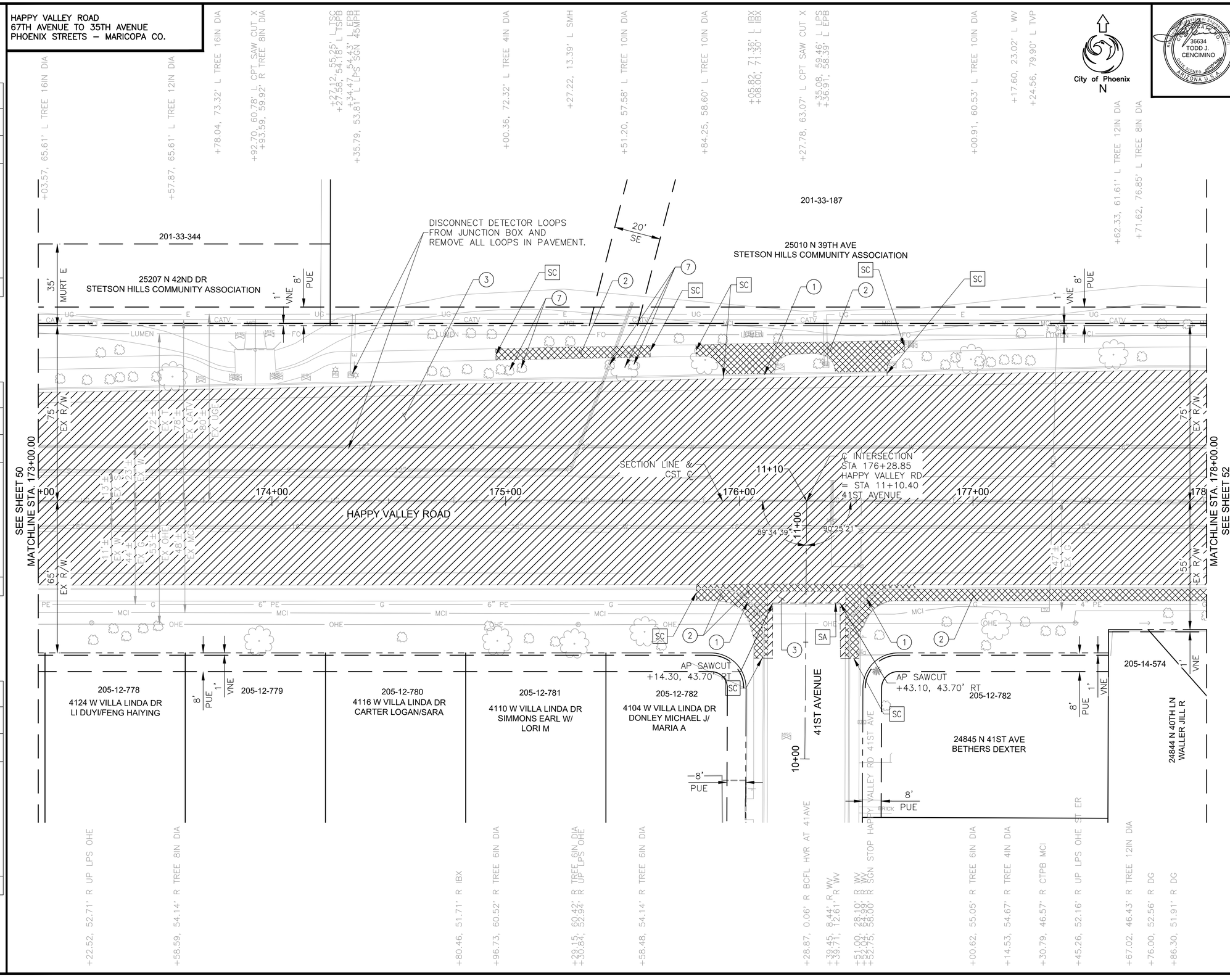
DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.33
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			50 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437REM33.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	51	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	172
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	2674
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	4877
7	REMOVE EXISTING BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	5
SA	ASPHALT SAWCUTTING	LF	80
SC	CONCRETE SAWCUTTING	LF	43

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

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ARIZONA811 Call 811 or click Arizona811.com

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.34
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			51 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437REM34.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

+15.24, 62.73' L TREE 8IN DIA
+48.54, 61.27' L EPB
+50.01, 60.93' L LPS
+92.29, 24.09' L WV
+02.63, 62.22' L TREE 8IN DIA
+24.19, 62.56' L TREE 8IN DIA
+05.06, 62.80' L TREE 8IN DIA
+50.32, 60.73' L LPS
+51.73, 61.10' L EPB
+90.22, 62.23' L TREE 8IN DIA
+23.16, 70.53' L CPT SAW CUT X
+26.45, 59.40' L SGN LN CHANGE SYMBOL
+10.54, 62.70' L TREE 12IN DIA
+40.70, 75.66' L TREE 4IN DIA
+50.50, 61.81' L EPB
+51.41, 76.66' L TREE 12IN DIA
+51.60, 60.40' L LPS

City of Phoenix
N

201-33-187

25010 N 39TH AVE
STETSON HILLS COMMUNITY ASSOCIATION

EXST R/W

1' VNE
8' PUE

HAPPY VALLEY ROAD

75' EX R/W
55' EX R/W

SEE SHEET 51
MATCHLINE STA. 178+00.00

SEE SHEET 53
MATCHLINE STA. 183+00.00

+00 179+00 180+00 181+00 182+00 183

23'± EX R/W
71'± EX FD
77'± EX CATV
80'± EX UGE
71'± EX MCI
11'± EX WV
44'± EX FD
47'± EX UGE

SECTION LINE & CST ℄

205-14-575
205-14-576
205-14-577
205-14-578
205-14-579
205-14-580
205-14-581
205-14-582
205-14-583
205-14-584
205-14-585

24848 N 40TH LN
BIGGS CHRISTOPHER R/
SANDY MELINDA SUE

4060 W VILLA LINDA DR
FRIEL JAMES T/VICKI M

4056 W VILLA LINDA DR
ROBINSON DOUGLAS
W/LYNN M

4052 W VILLA LINDA DR
KNIERIM GEOFFREY C/
BRANDEE R

4048 W VILLA LINDA DR
VAN CONANT TAYLOR
CAITLIN/CAL

4044 W VILLA LINDA DR
VILLA LINDA
ENTERPRISES LLC

4040 W VILLA LINDA DR
WINGET DIEDRE J

4036 W VILLA LINDA DR
WOOD MARSHA E

4032 W VILLA LINDA DR
GRENKE DOREEN

4028 W VILLA LINDA DR
MARIA PEREA FAMILY
TRUST

4024 W VILLA LINDA DR
ESCOBAR FLOR LUCIA

+09.33, 48.23' R TREE 12IN DIA
+31.34, 49.74' R TREE 8IN DIA
+57.27, 47.40' R TREE 12IN DIA
+93.52, 49.86' R TREE 16IN DIA
+50.22, 44.29' R LPS SGN 45MPH
+64.98, 50.24' R TREE 8IN DIA
+82.07, 51.42' R TREE 12IN DIA
+98.92, 50.33' R TREE 12IN DIA
+27.40, 50.37' R TREE 12IN DIA
+51.59, 44.00' R LPS
+51.74, 46.37' R EPB
+82.01, 52.24' R TREE 12IN DIA
+19.61, 44.70' R IBX
+33.15, 47.48' R TREE 12IN DIA
+86.03, 47.75' R TREE 16IN DIA

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	52	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634
TODD J.
CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA, U.S.A.

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
(2)	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	2500
(3)	REMOVE ASPHALT CONCRETE PAVEMENT	SY	5091

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

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REMOVAL PLAN

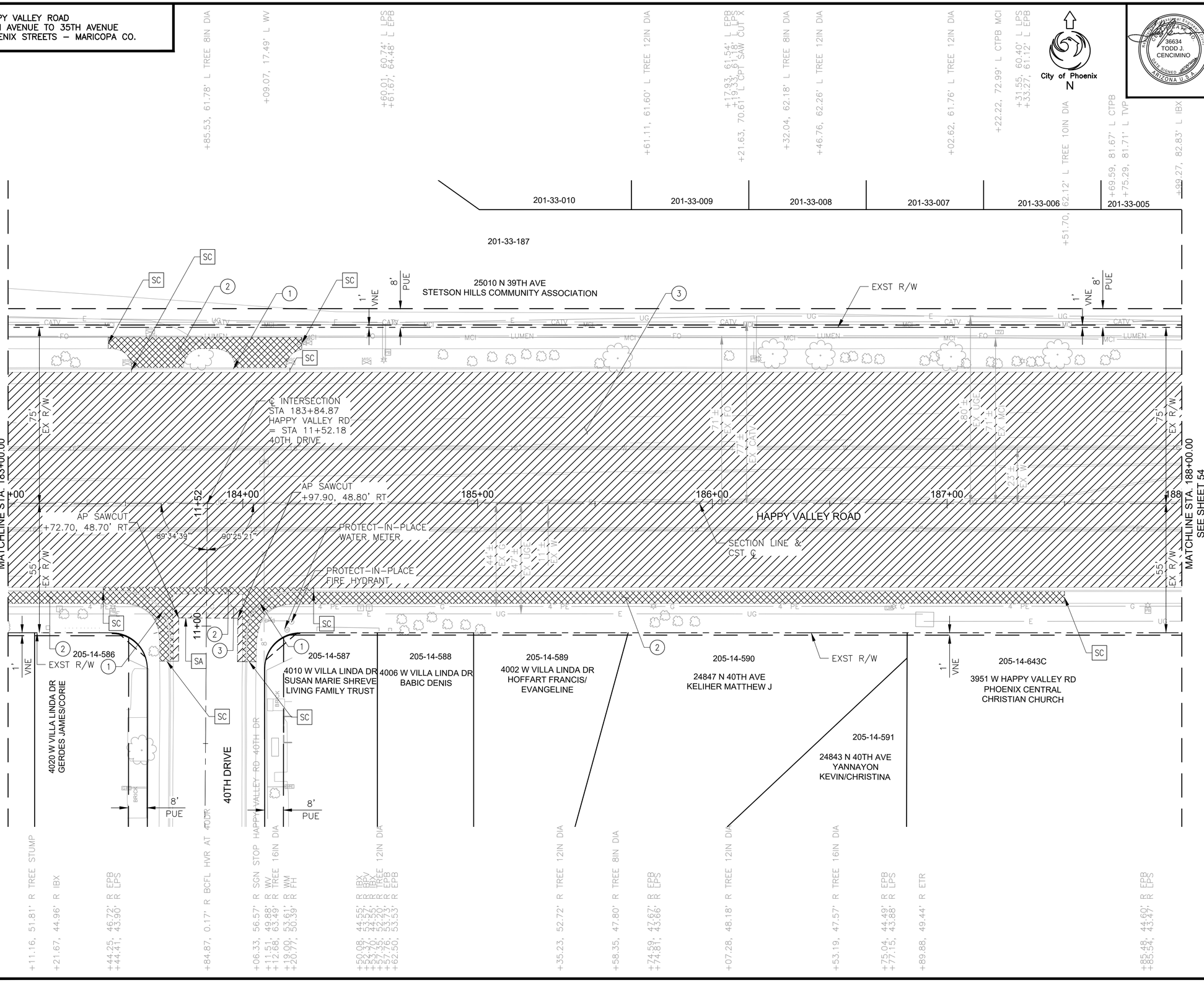
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.35
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			52 OF 364

SHEET NAME: ST85100437REM35.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	53	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	168
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	3436
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	5135
SA	ASPHALT SAWCUTTING	LF	66
SC	CONCRETE SAWCUTTING	LF	43

GENERAL NOTES:

1. PROTECT-IN-PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

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ARIZONA811 Call 811 or click Arizona811.com

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-1.36
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			53 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437REM36.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

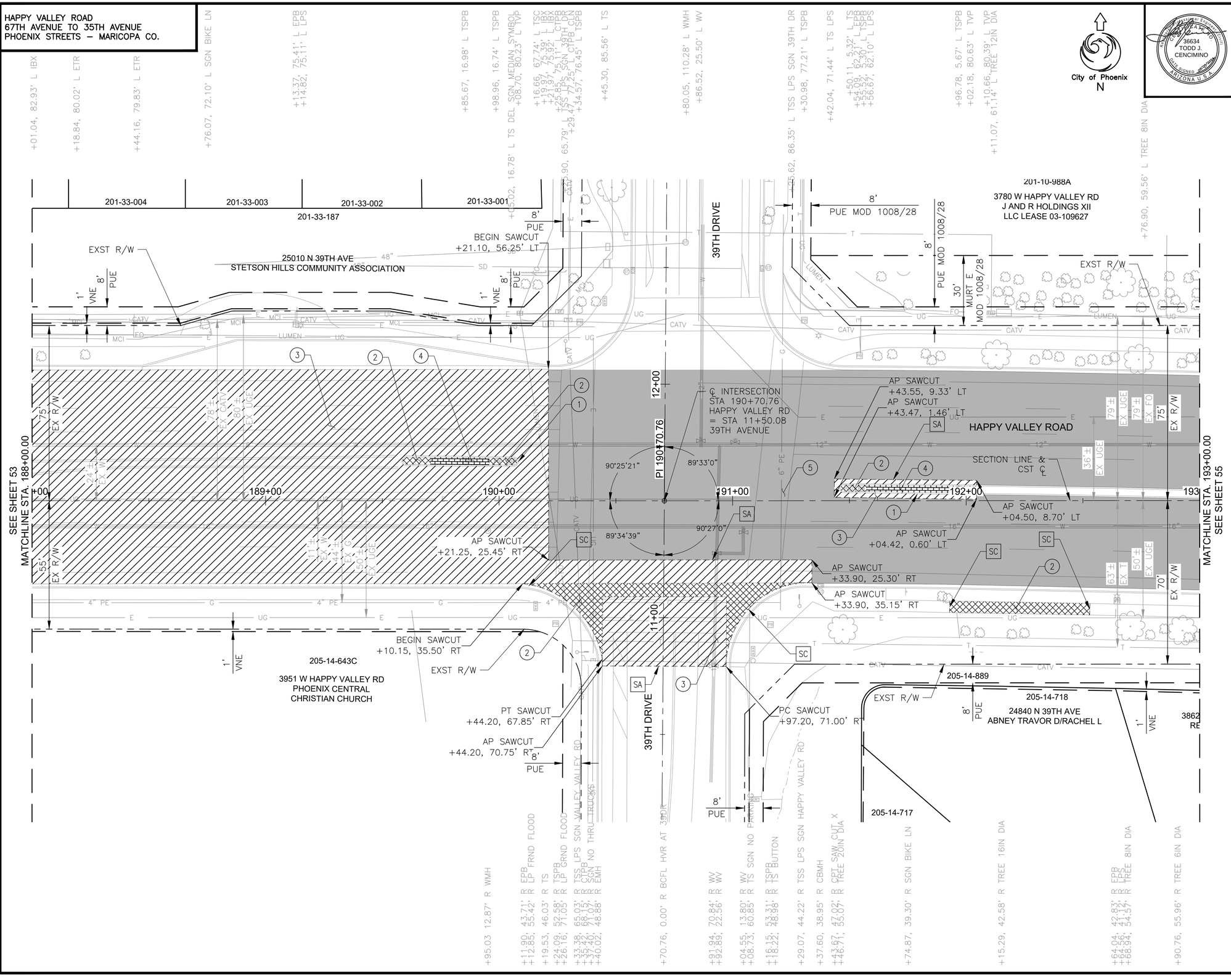
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	54	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REGISTERED PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
CERTIFICATE NOT VALID UNLESS SIGNED
ARIZONA U.S.A.

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	225
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	1279
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	2556
4	REMOVE DECORATIVE BRICK PAVERS	SF	216
5	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	2613
SA	ASPHALT SAWCUTTING	LF	395
SC	CONCRETE SAWCUTTING	LF	120

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

REMOVAL PLAN

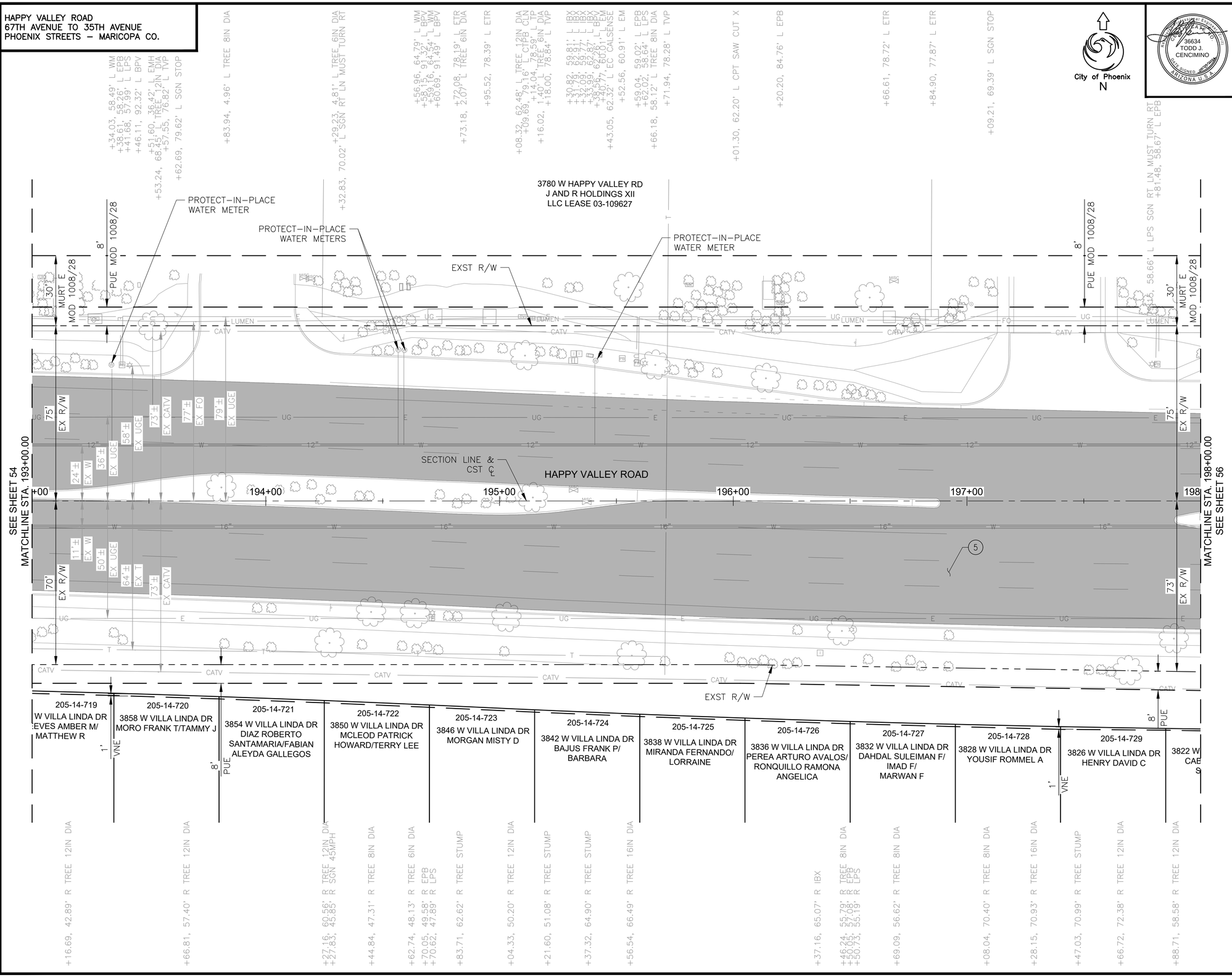
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.37
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			54 OF 364

SHEET NAME: ST85100437REM37.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



City of Phoenix
N

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	55	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
(5)	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	4740

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
	REMOVE DECORATIVE BRICK PAVERS
	REMOVE ASPHALT CONCRETE PAVEMENT
	CLEAR & GRUB

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

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REMOVAL PLAN

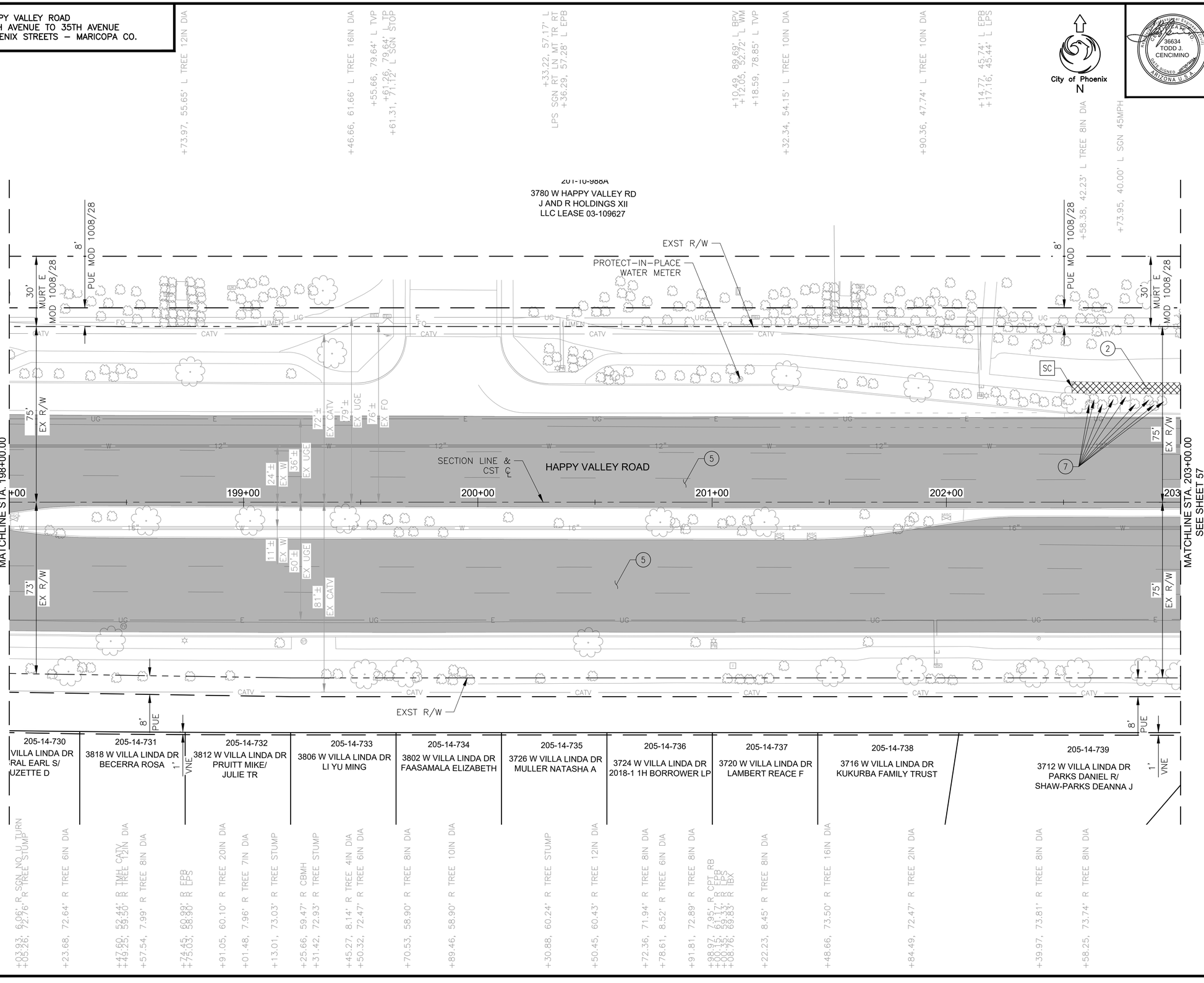
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.38
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			55 OF 364

SHEET NAME: ST85100437REM38.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	56	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	226
5	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	4484
7	REMOVE EXISTING BUSHES, SHRUBS, CACTI, OR SMALL TREES	EA	9
SC	CONCRETE SAWCUTTING	LF	5

GENERAL NOTES:

1. PROTECT-IN-PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

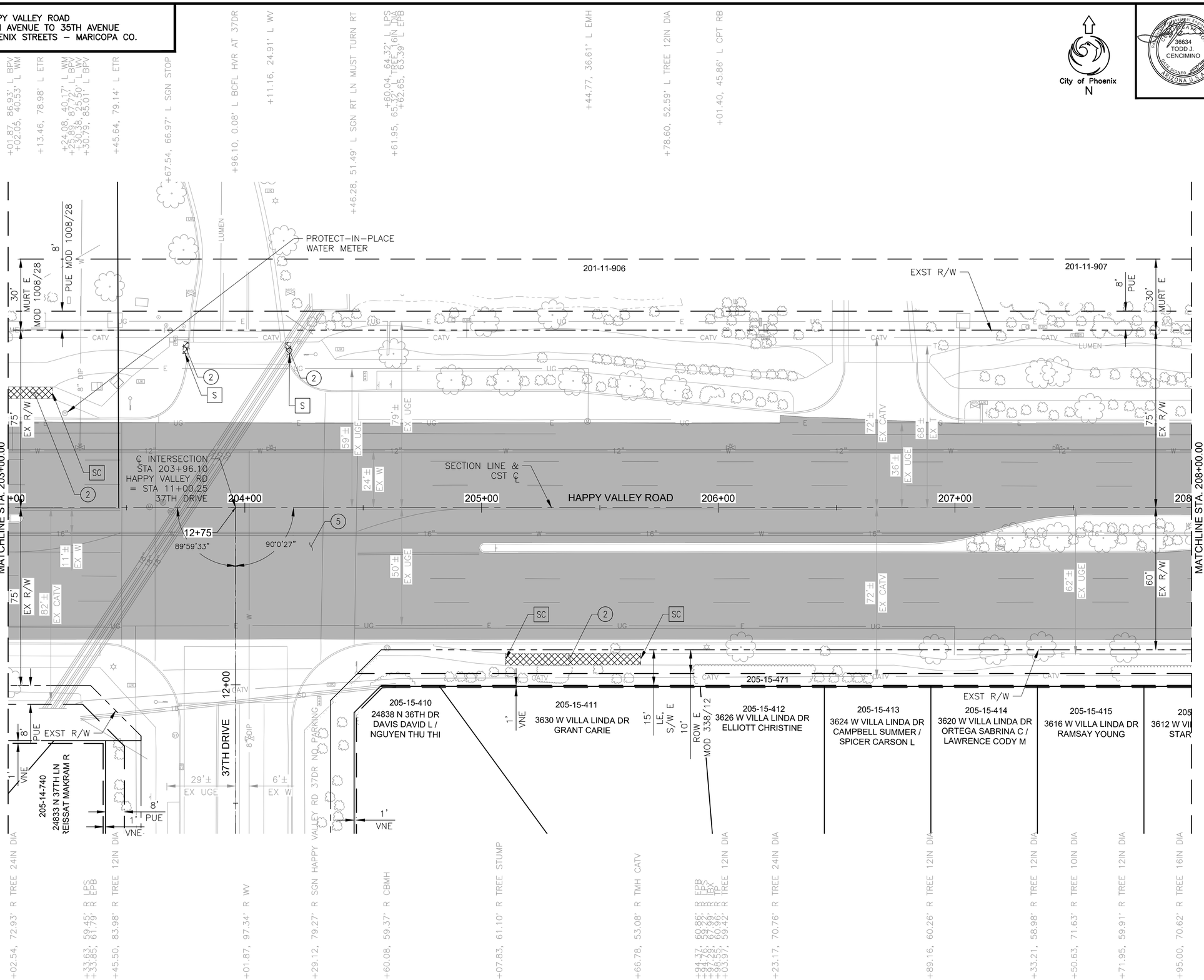
DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-1.39
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			56 OF 364

SHEET NAME: ST85100437REM39.DWG, PLOT DATE: 5/28/2024

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



City of Phoenix
N

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	57	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
(2)	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	391
(5)	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	4838
SC	CONCRETE SAWCUTTING	LF	43

GENERAL NOTES:

1. PROTECT-IN-PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-1.40
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			57 OF 364

SHEET NAME: ST85100437REM40.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

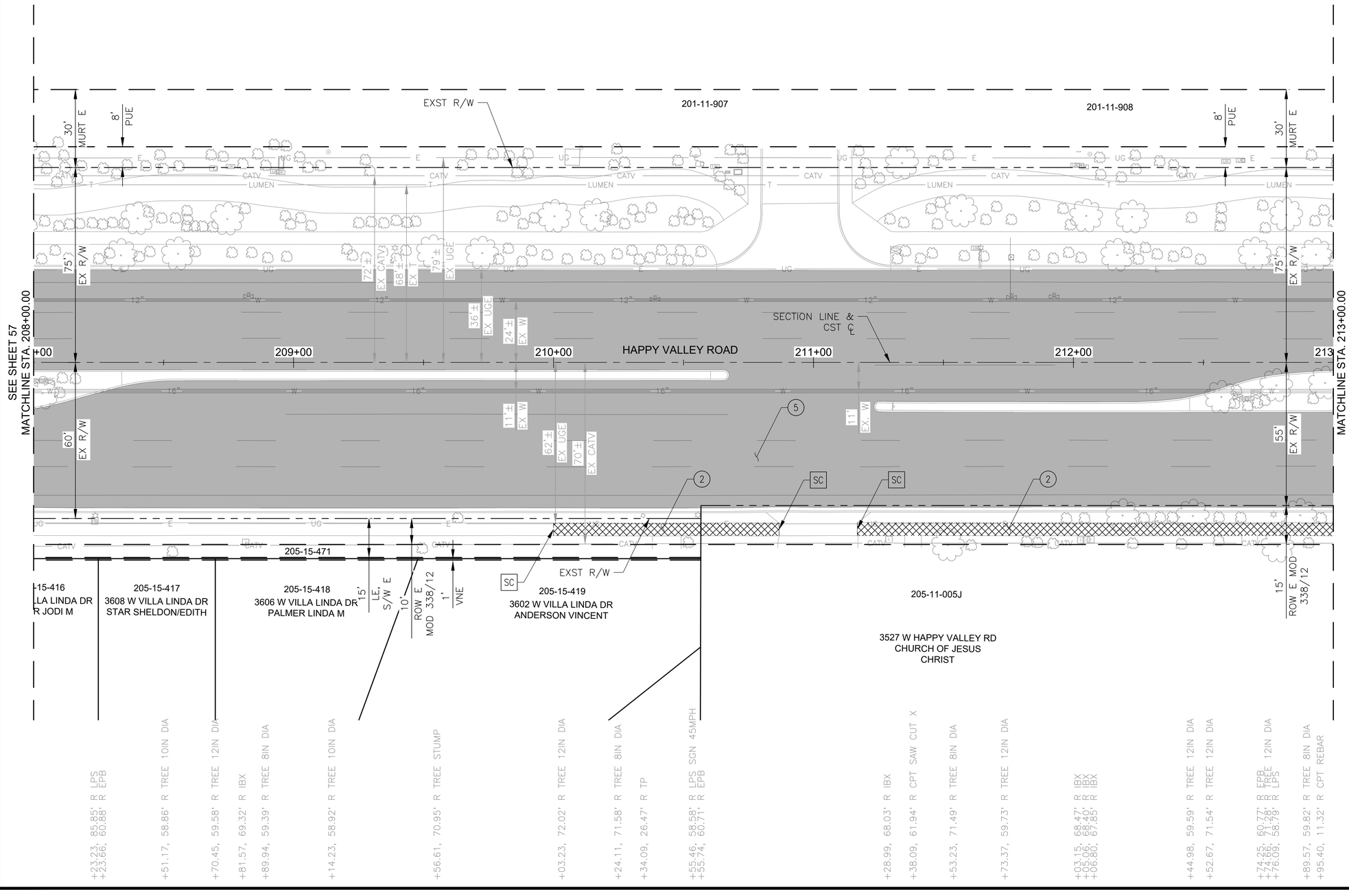
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	58	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
(2)	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	1332
(5)	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	4791
SC	CONCRETE SAWCUTTING	LF	15

GENERAL NOTES:

1. PROTECT-IN-PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
	REMOVE DECORATIVE BRICK PAVERS
	REMOVE ASPHALT CONCRETE PAVEMENT
	CLEAR & GRUB

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

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ARIZONA811
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REMOVAL PLAN

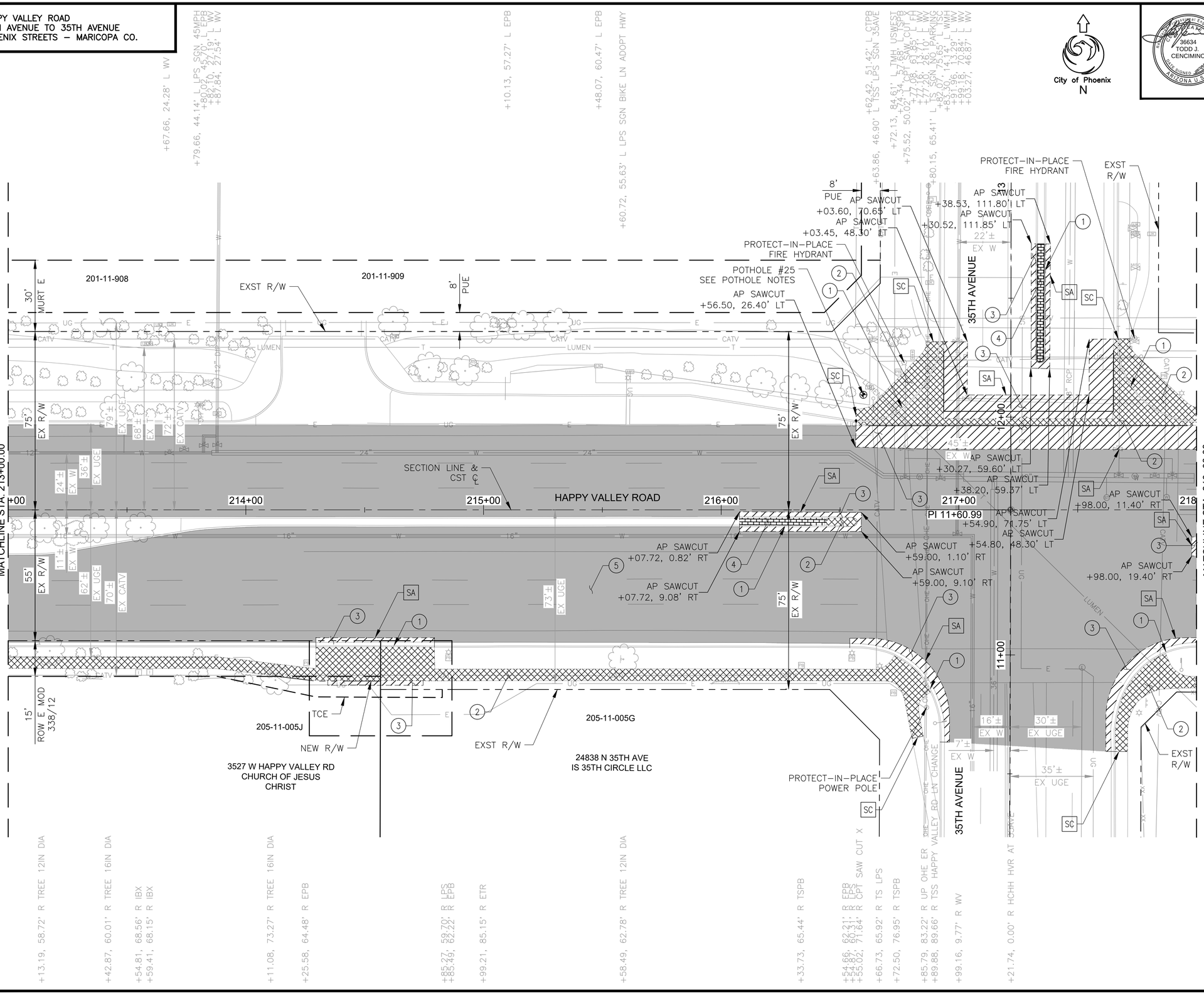
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-1.41
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			58 OF 364

SHEET NAME: ST85100437REM41.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	59	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	489
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	4738
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	404
4	REMOVE DECORATIVE BRICK PAVERS	SF	254
5	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	4995
SA	ASPHALT SAWCUTTING	LF	717
SC	CONCRETE SAWCUTTING	LF	38

POTHOLE NOTES:

POTHOLE #25
APS ELECTRIC
UTILITY TOP=1420.37
(5) 2.5" & (5) 1.5" PLASTIC CONDUIT PIPES
216+59.81, 48.38' LT

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

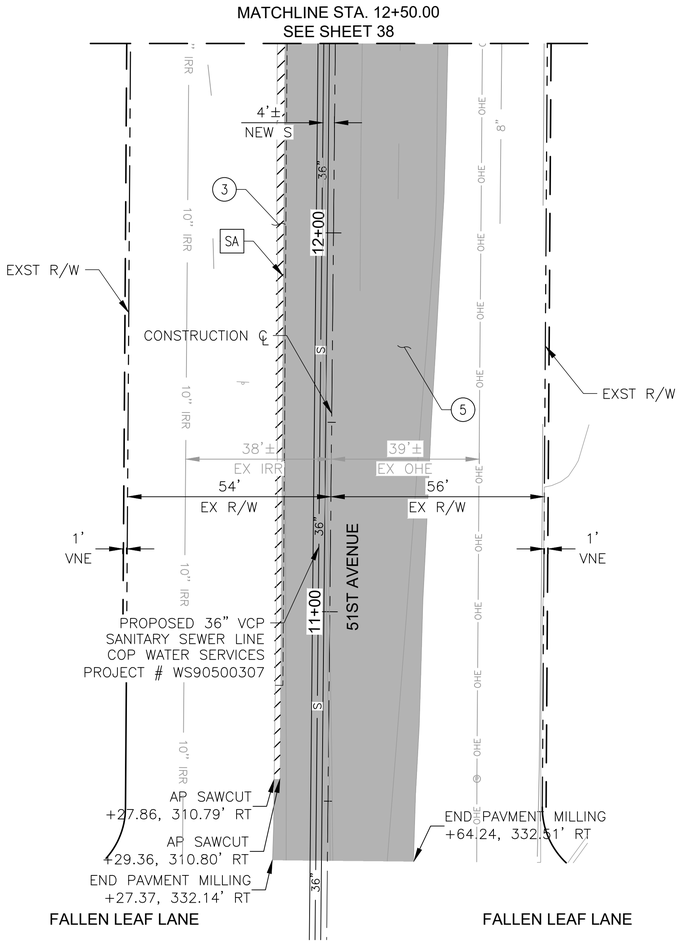
DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.42
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			59 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437REM42.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	60	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
(3)	REMOVE ASPHALT CONCRETE PAVEMENT	SY	37
(5)	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	975
SA	ASPHALT SAWCUTTING	LF	196

GENERAL NOTES:

1. PROTECT–IN–PLACE SAGUARO AND BARREL CACTI WITHIN THE CLEAR & GRUB LIMITS IF POSSIBLE. IF NOT POSSIBLE, TRANSPLANT THE CACTI TO SUITABLE LOCATION USING BEST PRACTICES.

LEGEND

	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
	REMOVE DECORATIVE BRICK PAVERS
	REMOVE ASPHALT CONCRETE PAVEMENT
	CLEAR & GRUB

▲ C.O.P. BM 1481: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 51ST AVENUE ELEV: 1420.08' (C.O.P. DATUM)

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ARIZONA811
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REMOVAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–1.43
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			60 OF 364

SHEET NAME: ST85100437REM43.DWG, PLOT DATE: 5/28/2024

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

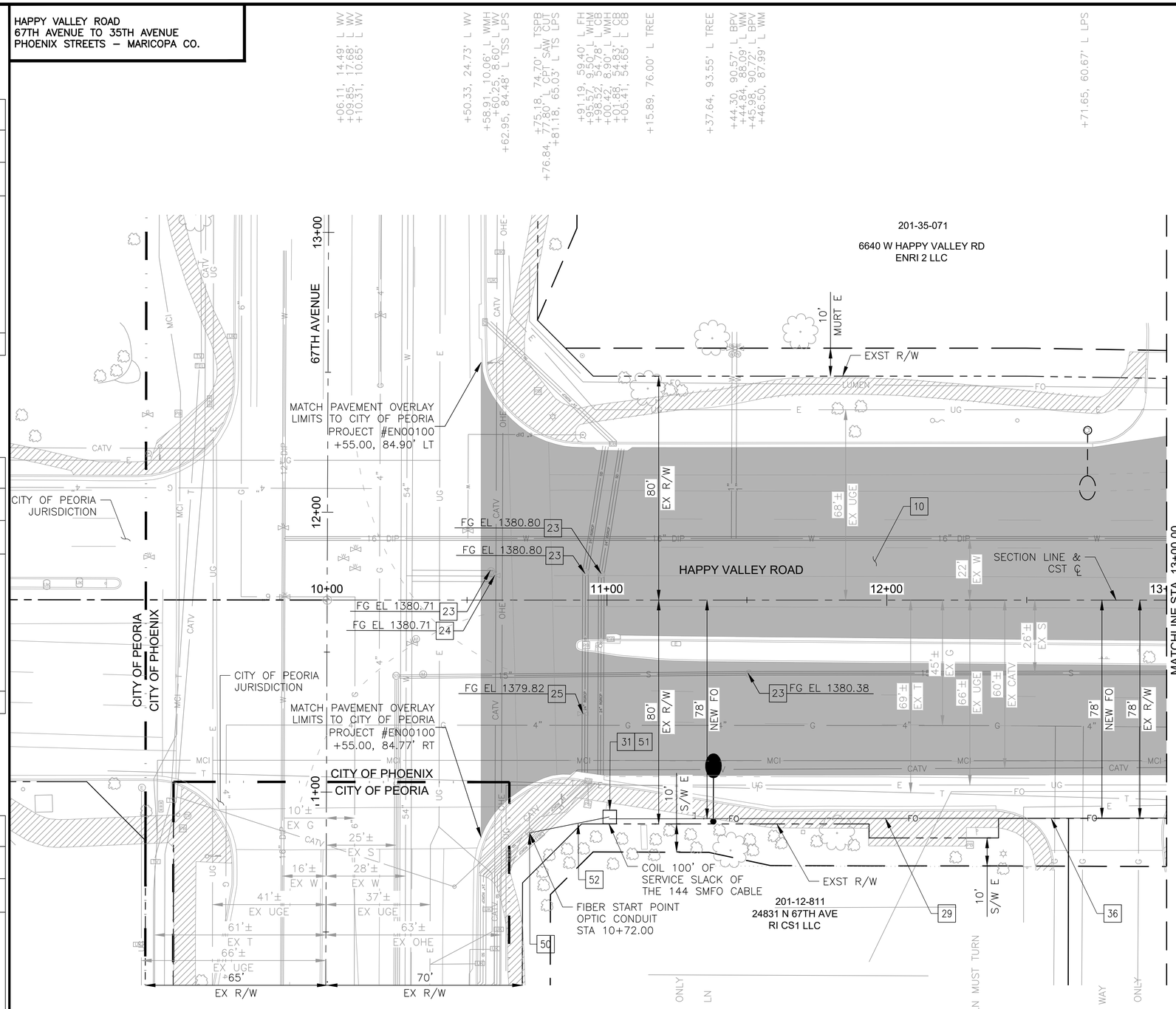
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



City of Phoenix
N

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	61	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	251
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.01
23	ADJUST EX MANHOLE FRAME & COVER,MAG STD DET 422 & P1430	EA	4
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	1
25	ADJUST EX UTILITY VALVE, MAG STD DET 391-1 & 391-2	EA	1
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	252
31	PULLBOX (NO. 9) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	352
50	FIBER OPTIC EQUIPMENT (CITY OF PHOENIX) (FIELD HARDENED ETHERNET SWITCH)	EA	1
51	FIBER OPTIC SPLICE CLOSURE (CITY OF PHOENIX)	EA	1
52	BREAK-AWAY CONNECTOR SYSTEM (WITH TAIL)	EA	1

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

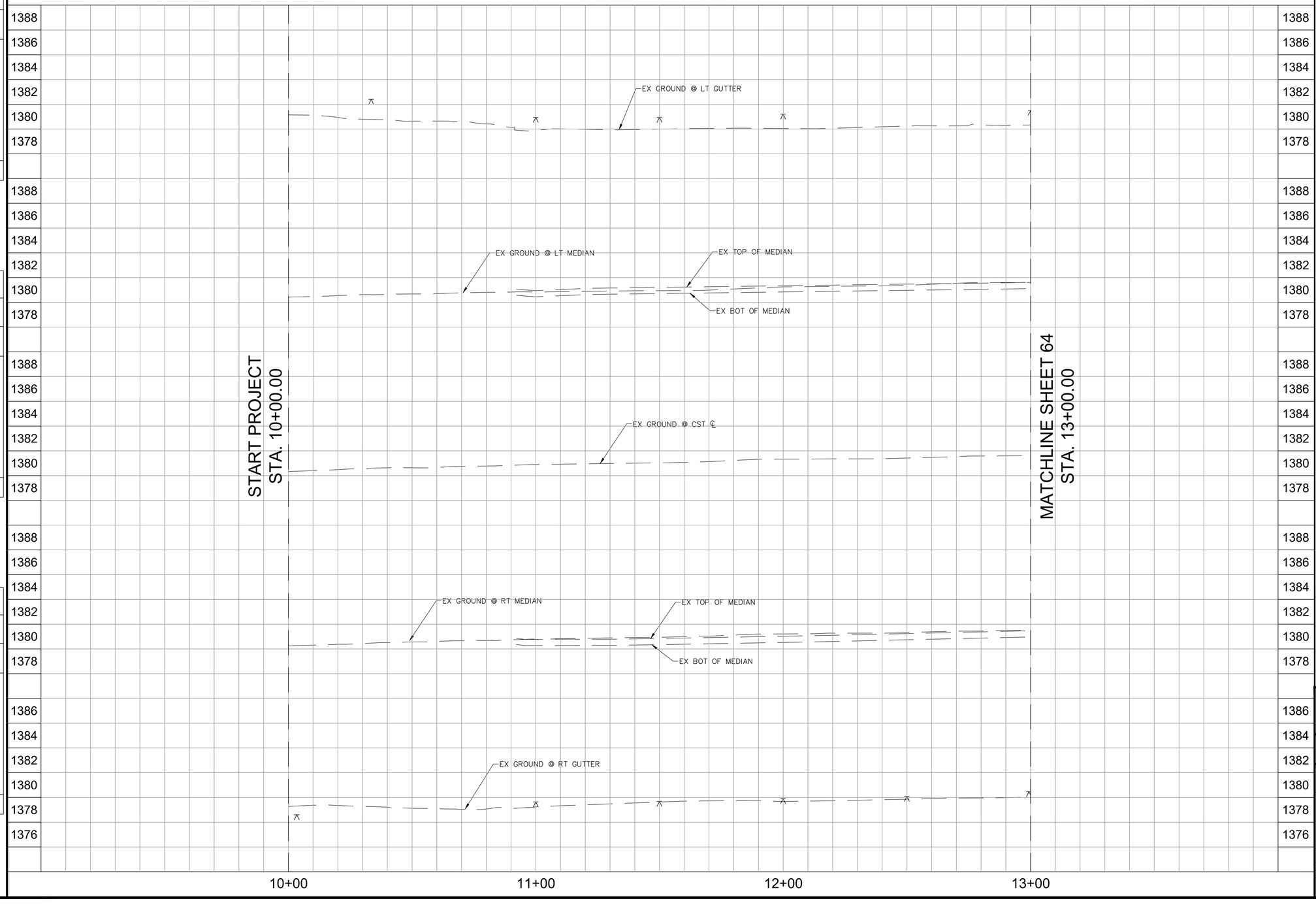
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.01
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			61 OF 364

SHEET NAME: ST85100437PL01.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

36634
TODD J.
CENCIMINO
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	62	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

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ROADWAY PROFILE

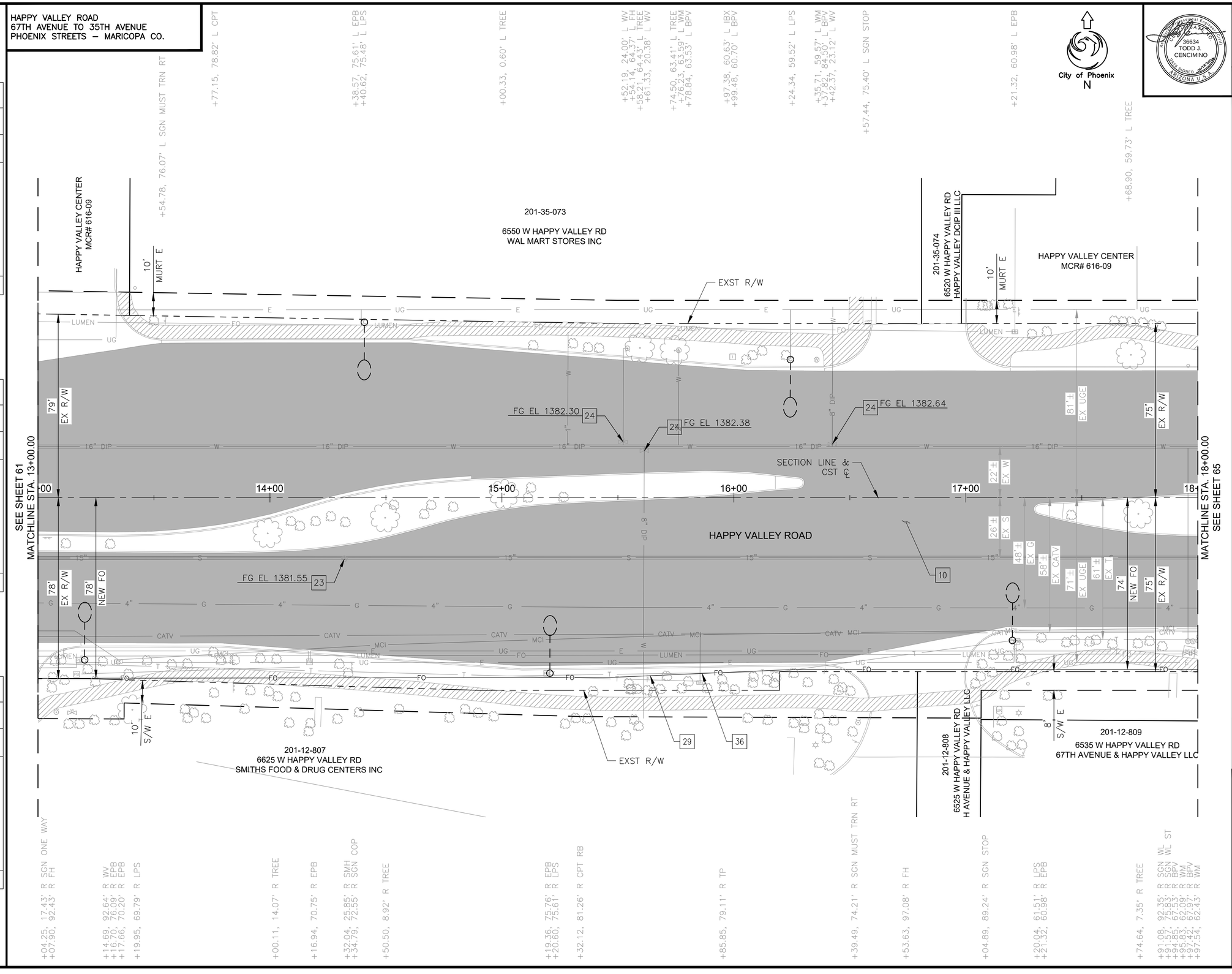
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.02
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			62 OF 364

SHEET NAME: ST85100437PRO01.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	63	368	

06/2024 DATE:

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	525
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	2.12
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	1
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	3
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	550

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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ARIZONA811 Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.03
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			63 OF 364

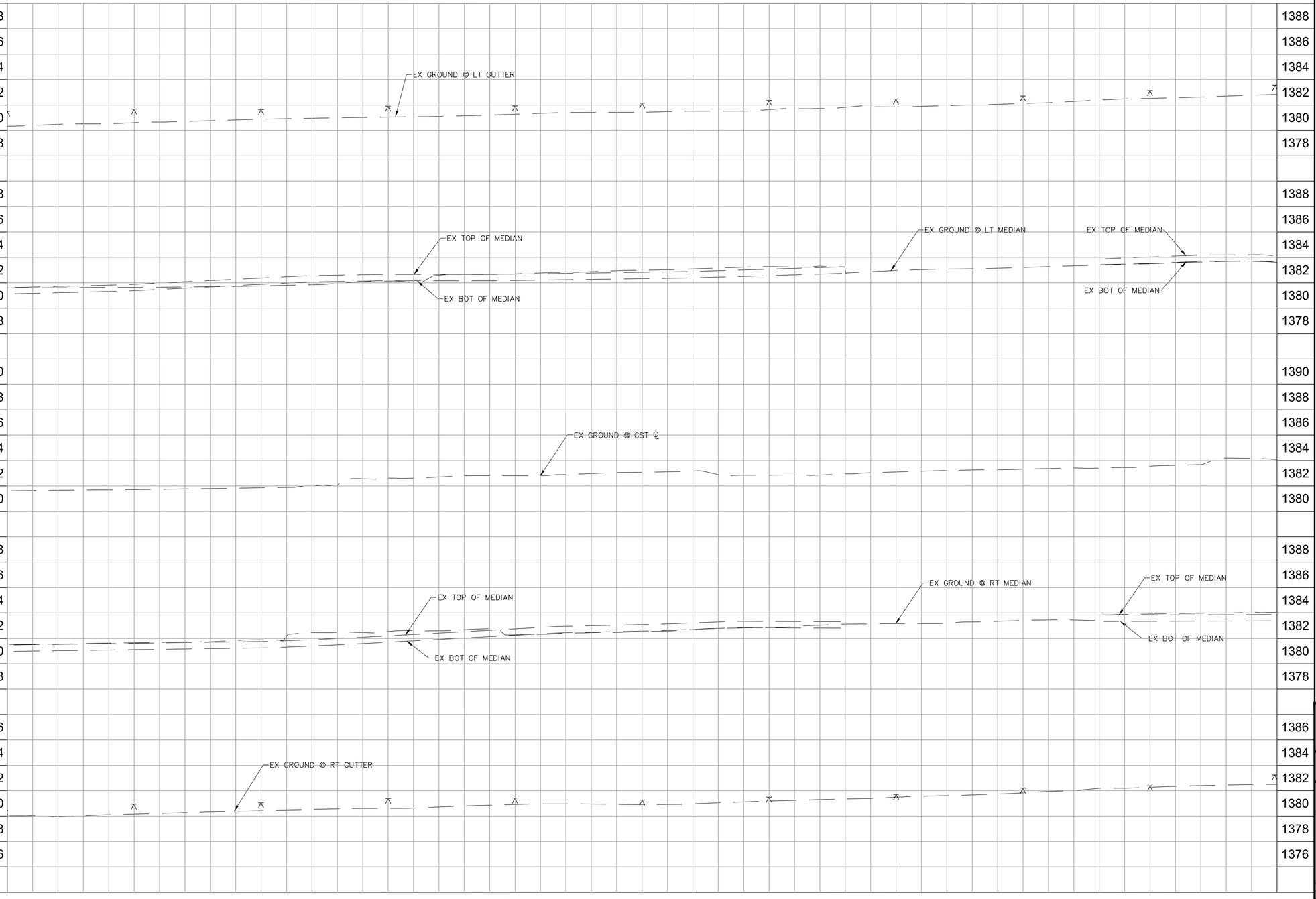
SHEET NAME: ST85100437PL02.DWG, PLOT DATE: 6/18/2024

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	64	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634
TODD J.
CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.

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ARIZONA811
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ROADWAY PROFILE

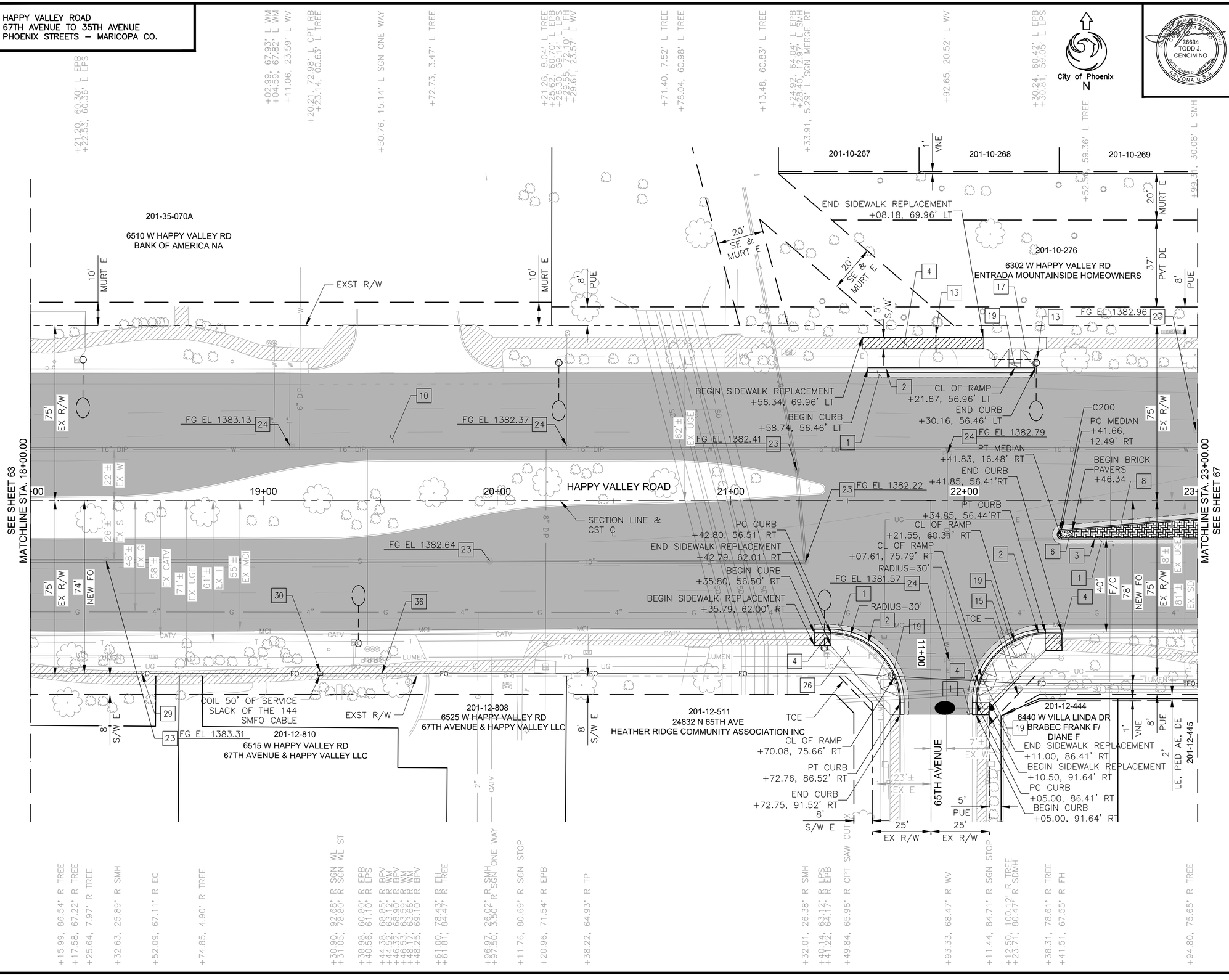
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.04
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			64 OF 364

SHEET NAME: ST85100437PRO02.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	65	368	

06/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — REGISTERED ARIZONA U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	72
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	6
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	20
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.05
	AGGREGATE BASE COURSE, 4" THICK	TON	16
	LIME TREATED SUBGRADE, 6" THICK	SY	72
2	CONCRETE CURB & GUTTER MAG STD DET 220, TYPE A, H=6"	LF	189
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	123
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	373
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	18
8	DECORATIVE BRICK PAVERS MAG STD DET 225	SF	308
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	443
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.78
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	26
15	CONCRETE CURB RAMP, COP STD DET P1236	SF	415
17	CONCRETE SIDEWALK RAMP, COP STD DET P1241-2	SF	282
19	TRUNCATED DOMES, COP STD DET P1232	SF	40
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	5
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	4
26	CONCRETE CURB RAMP, COP STD DET P1240	SF	455
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	600

NOTES:
1. SEE PEDESTRIAN RAMP DETAIL ON SHEET 147 FOR MORE INFORMATION.

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C200	6.110	2.000	175°01'28"

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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ARIZONA811
Call 811 or click Arizona811.com

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

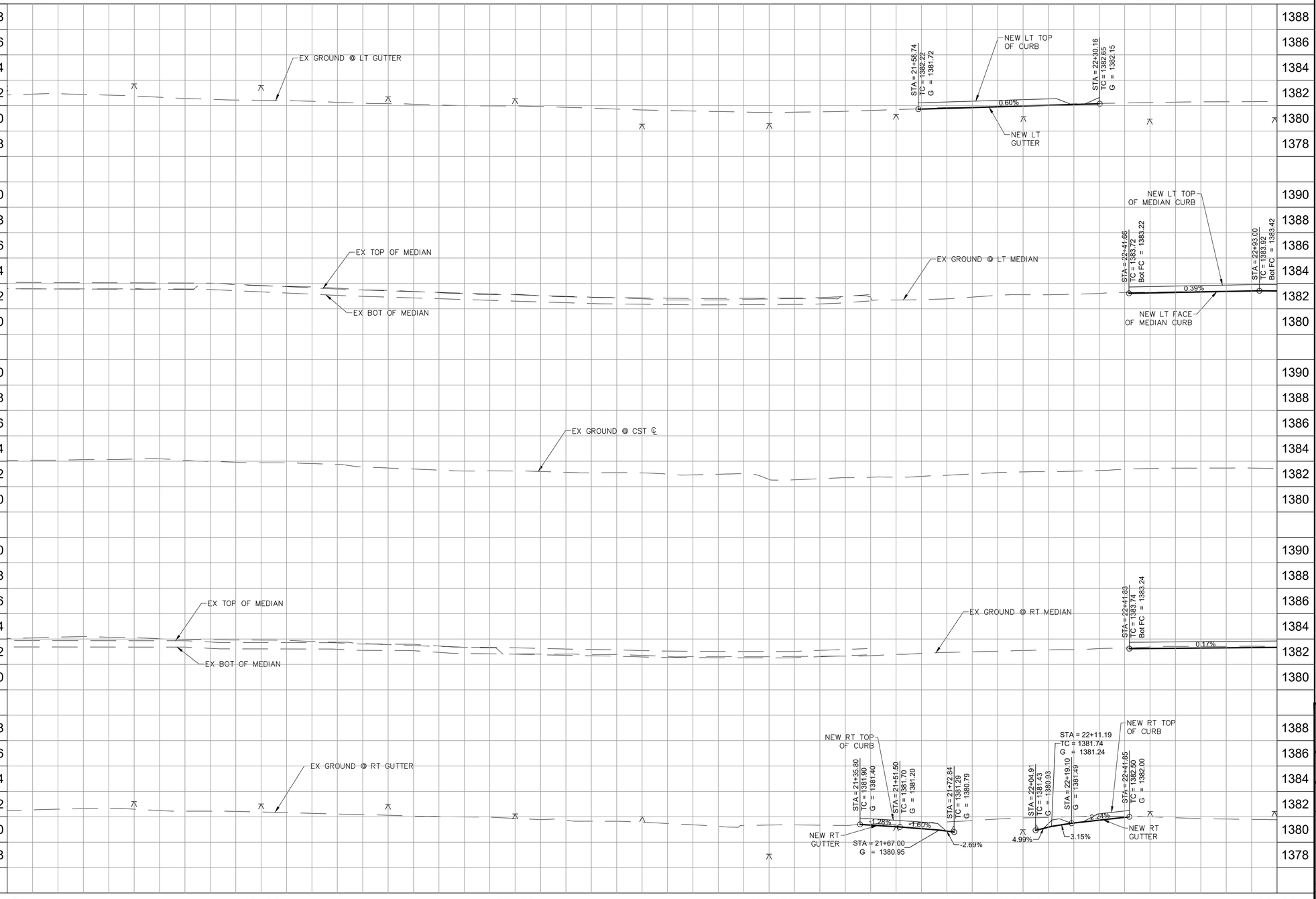
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.05
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			65 OF 364

SHEET NAME: ST85100437PL03.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

36634
TODD J.
CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	66	368	

05/2024
DATE:

WILSON & COMPANY
INC. 1115 E. Cliff Road, Suite 300, Tempe, Arizona 85281

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

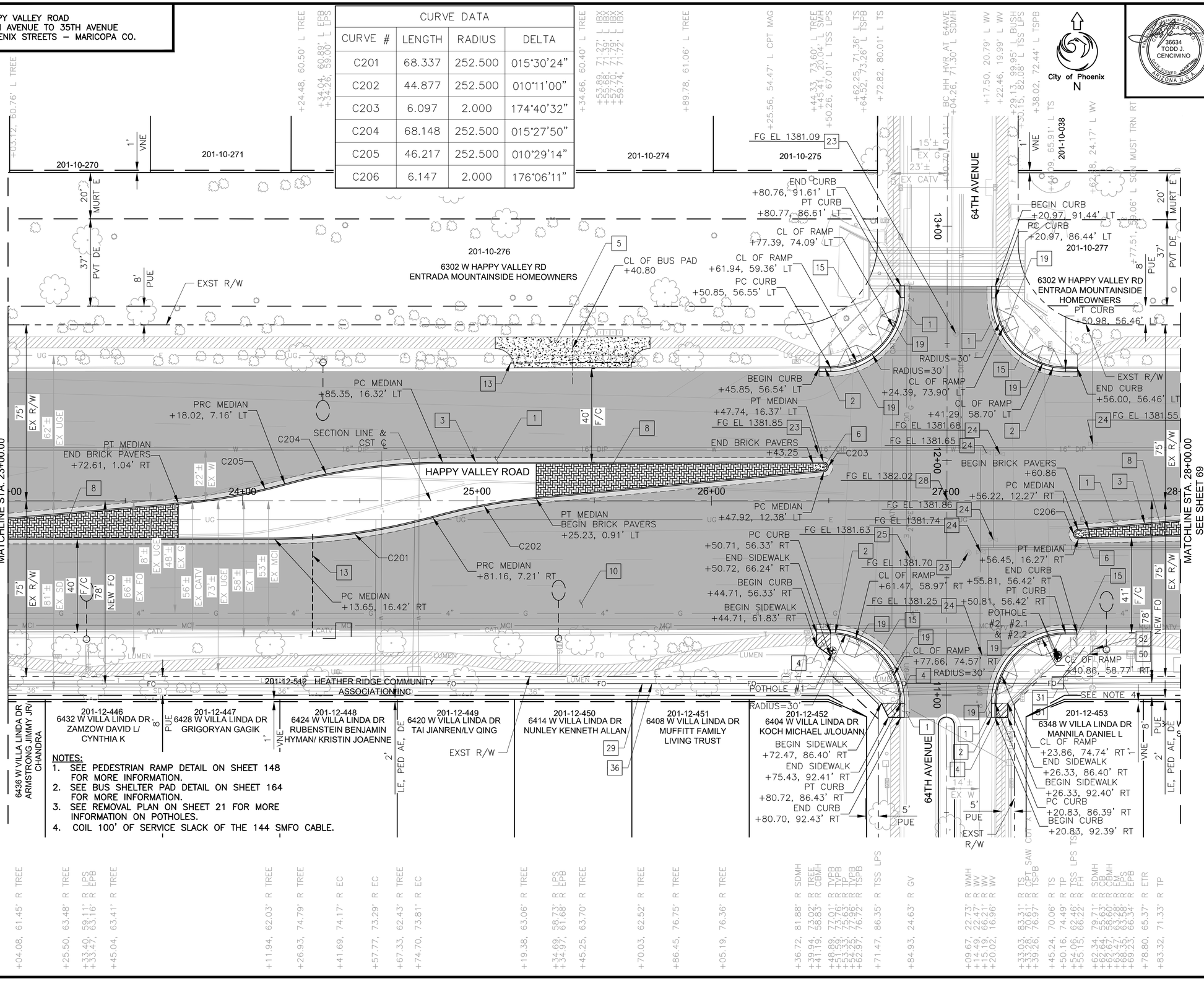
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.06
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL 4' VERTICAL			66 OF 364

SHEET NAME: ST85100437PRO03.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C201	68.337	252.500	015°30'24"
C202	44.877	252.500	010°11'00"
C203	6.097	2.000	174°40'32"
C204	68.148	252.500	015°27'50"
C205	46.217	252.500	010°29'14"
C206	6.147	2.000	176°06'11"



NOTES:
1. SEE PEDESTRIAN RAMP DETAIL ON SHEET 148 FOR MORE INFORMATION.
2. SEE BUS SHELTER PAD DETAIL ON SHEET 164 FOR MORE INFORMATION.
3. SEE REMOVAL PLAN ON SHEET 21 FOR MORE INFORMATION ON POTHOLES.
4. COIL 100' OF SERVICE SLACK OF THE 144 SMFO CABLE.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	67	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
	SUBGRADE PREPARATION	SY	234
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	19
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	65
1	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.16
	AGGREGATE BASE COURSE, 4" THICK	TON	51
	LIME TREATED SUBGRADE, 6" THICK	SY	234
2	CONCRETE CURB & GUTTER, MAG STD DET 220-1, TYPE A, H=6"	LF	231
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	800
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	106
5	BUS SHELTER/ACCESSORY PAD COP STD DET P1262	SF	757
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	36
8	DECORATIVE BRICK PAVERS MAG STD DET. 225	SF	2052
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	467
10	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.88
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	96
15	CONCRETE CURB RAMP, COP STD DET P1236	SF	2082
19	TRUNCATED DOMES, COP STD DET P1232	SF	80
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	3
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	6
25	ADJUST EX UTILITY VALVE, MAG STD DET 391-1 & 391-2	EA	1
28	ADJUST SURVEY MONUMENT HH FRAME & COVER, STD DET P1270	EA	1
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
31	PULLBOX (NO. 9) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	650
50	FIBER OPTIC EQUIPMENT (CITY OF PHOENIX) (FIELD HARDENED ETHERNET SWITCH)	EA	1
51	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	EA	1
52	BREAK-AWAY CONNECTOR SYSTEM (WITH TAIL)	EA	1

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

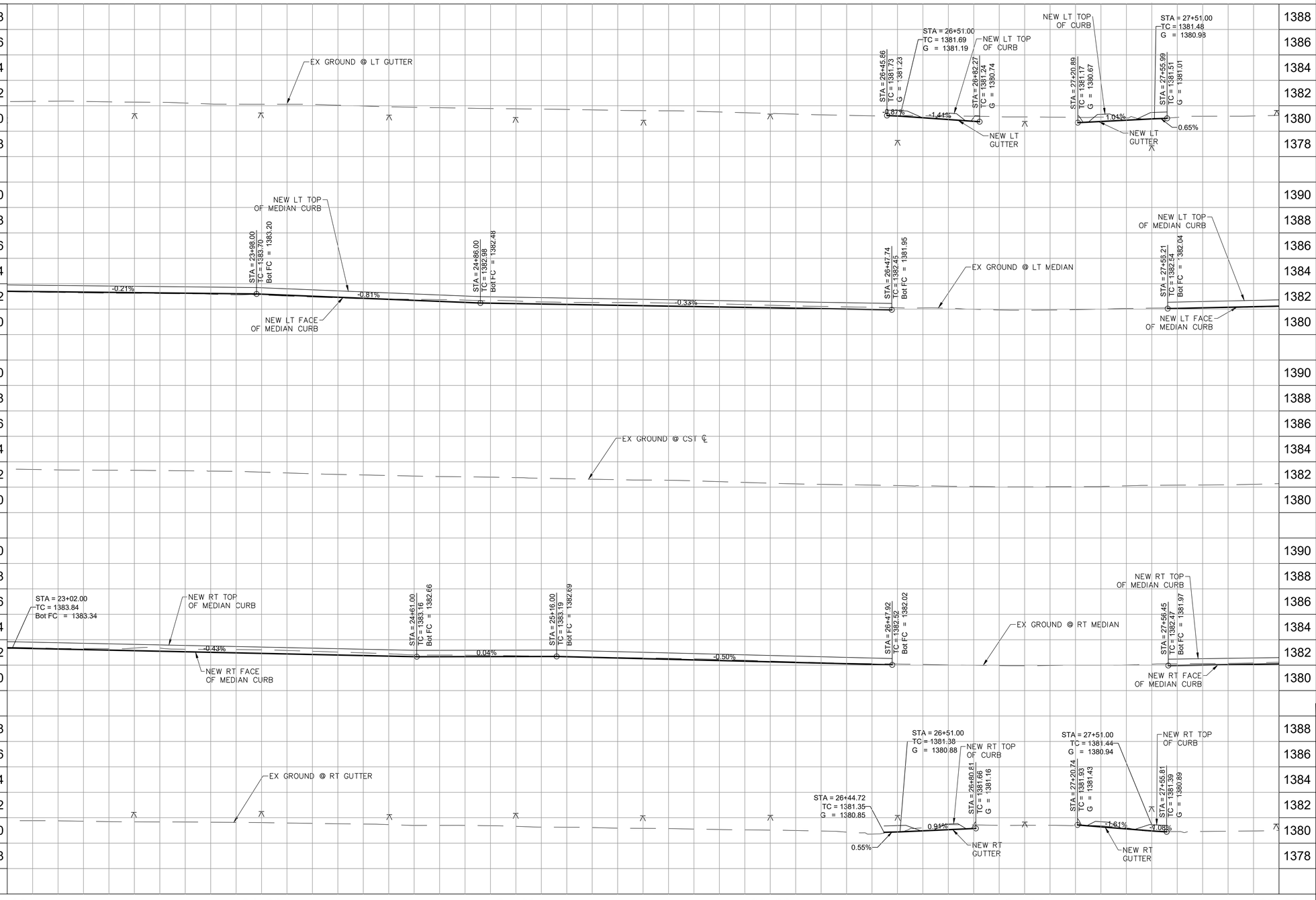
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.07
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			67 OF 364

SHEET NAME: ST85100437PL04.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	68	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

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ROADWAY PROFILE

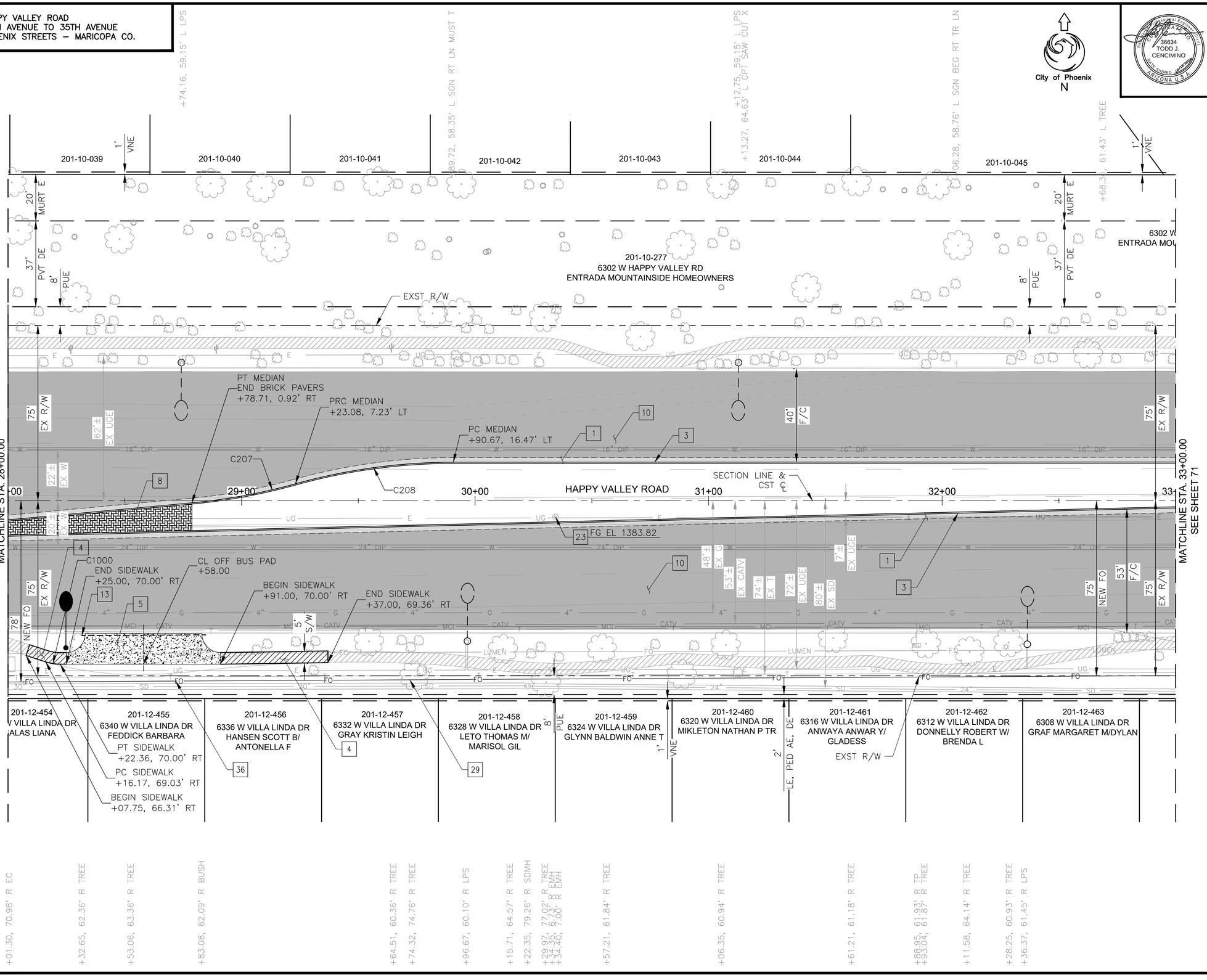
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–2.08
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			68 OF 364

SHEET NAME: ST85100437PRO04.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	69	368	

06/2024 DATE:

36634 TODD J. CENCIMINO — ELECTRONICALLY SIGNED — ARIZONA U.S.A.

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	223
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	18
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	61
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.15
	AGGREGATE BASE COURSE, 4" THICK	TON	48
	LIME TREATED SUBGRADE, 6" THICK	SY	223
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	1002
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	314
5	BUS SHELTER/ACCESSORY PAD COP STD DET P1262	SF	761
8	DECORATIVE BRICK PAVERS MAG STD DET. 225	SF	684
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	393
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.58
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	53
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	1
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	550

NOTES:
1. SEE BUS SHELTER PAD DETAIL ON SHEET 164 FOR MORE INFORMATION.

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C207	45.177	252.500	010°15'05"
C208	68.431	252.500	015°31'40"
C1000	6.293	20.000	018°01'39"

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

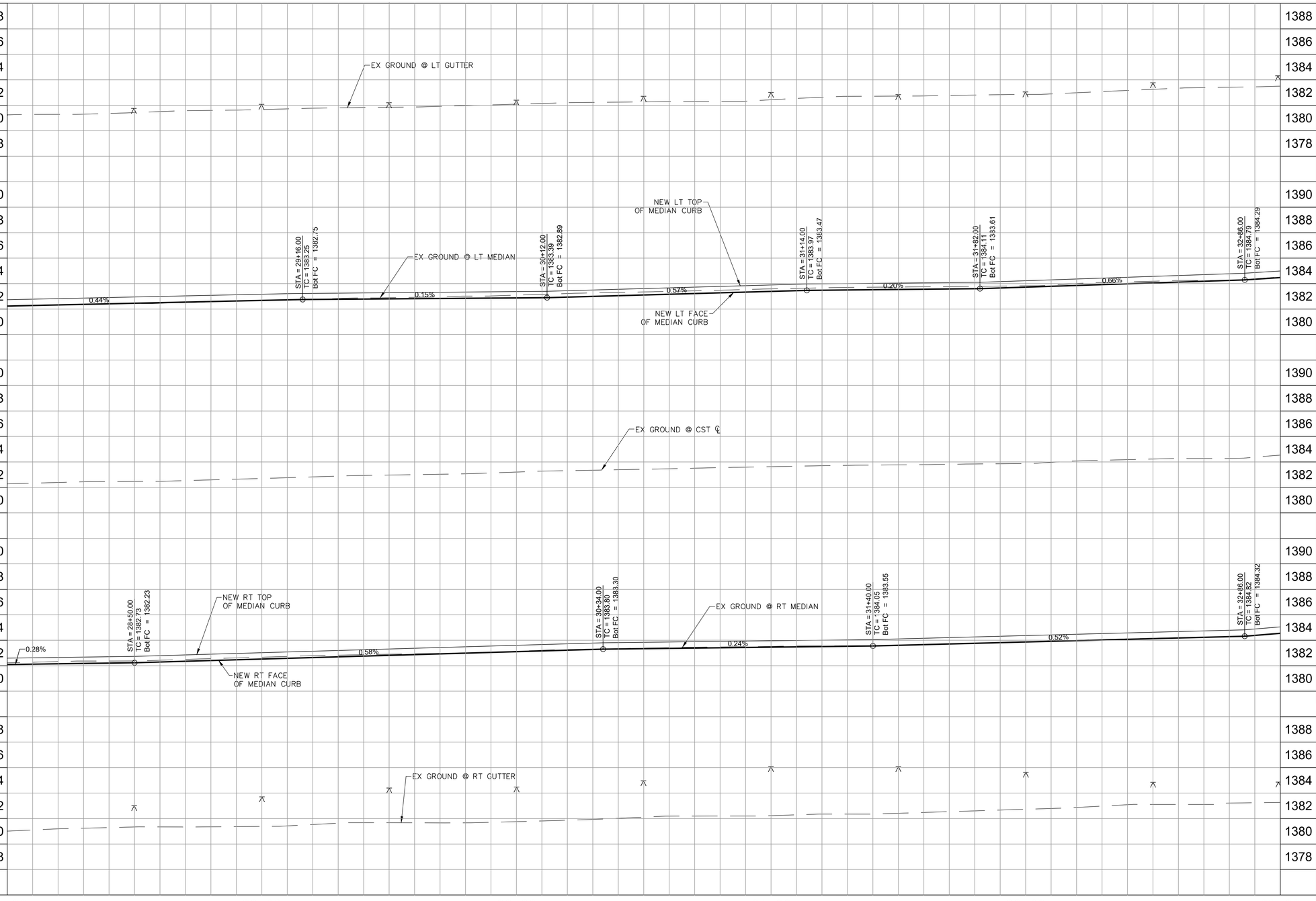
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN | DES: ASF | CK: TJC
DATE: 06/24 | DATE: 06/24 | DATE: 06/24
DWG. NO. P-2.09
SCALE: 1" = 20' HORIZONTAL
69 OF 364

SHEET NAME: ST85100437PL05.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

36634
TODD J.
CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	70	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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ARIZONA811
Call 811 or click Arizona811.com

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ROADWAY PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.10
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL 1" = 4' VERTICAL			70 OF 364

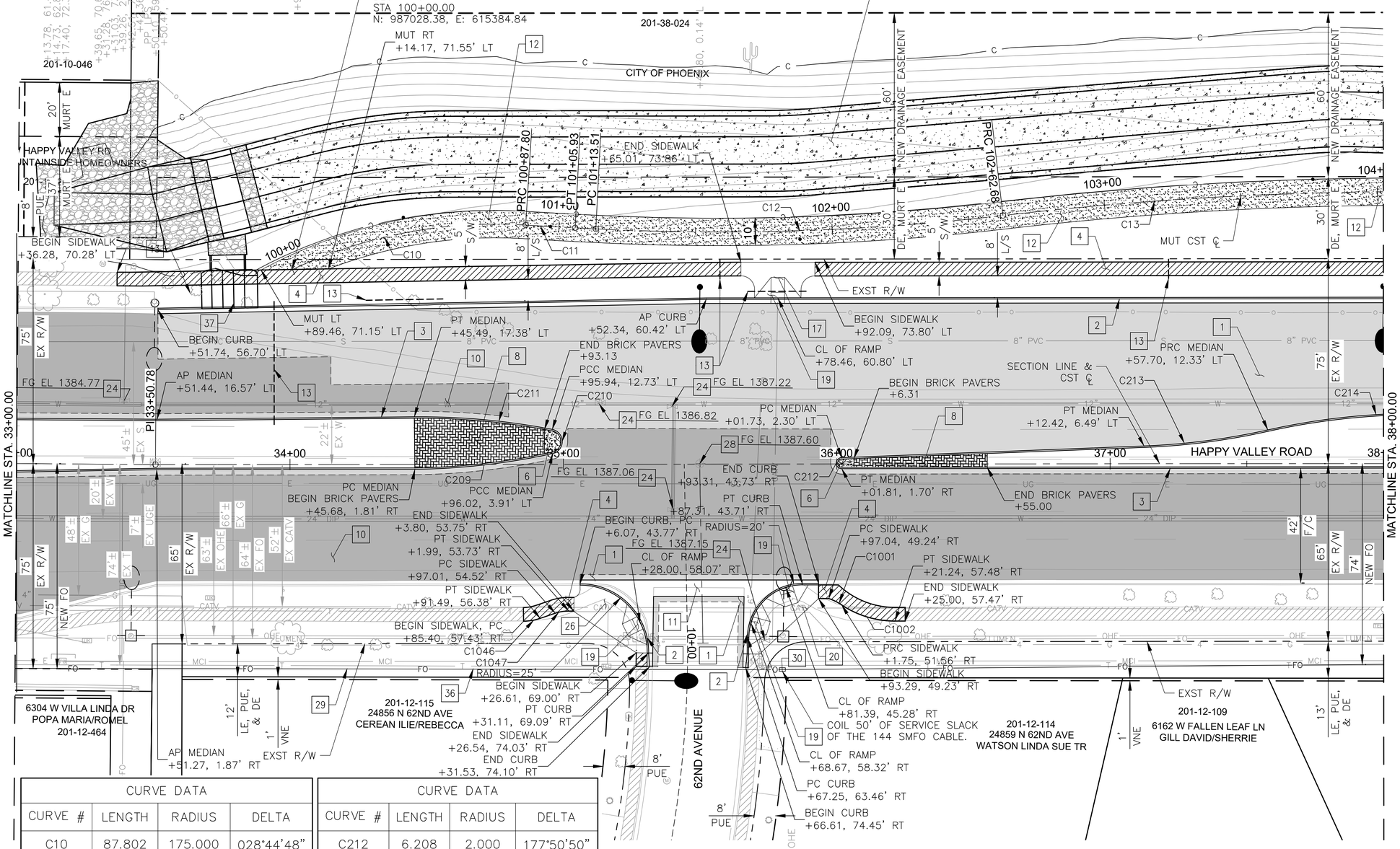
SHEET NAME: ST85100437PRO05.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. SEE PEDESTRIAN RAMP DETAIL ON SHEET 149 FOR MORE INFORMATION.

City of Phoenix
N

SEE DR-1.03 FOR DRAINAGE CHANNEL INFORMATION



CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C10	87.802	175.000	028°44'48"
C11	18.132	1500.000	000°41'33"
C12	149.167	895.000	009°32'57"
C13	227.595	1295.000	010°04'11"
C209	50.745	250.000	011°37'47"
C210	12.325	4.500	156°55'38"
C211	50.840	252.500	011°32'11"

CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C212	6.208	2.000	177°50'50"
C213	45.710	252.500	010°22'20"
C214	55.198	252.500	012°31'30"
C1001	5.269	20.000	015°05'41"
C1002	20.665	35.000	033°49'43"
C1046	6.205	20.000	017°46'33"
C1047	5.067	15.000	019°21'20"

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	71	368	

06/2024 DATE:

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO REGISTERED LANDSCAPE ARCHITECT ARIZONA U.S.A.

WILSON & COMPANY

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
	SUBGRADE PREPARATION	SY	2139
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	177
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	589
1	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.42
	AGGREGATE BASE COURSE, 4" THICK	TON	465
	LIME TREATED SUBGRADE, 6" THICK	SY	2139
2	CONCRETE CURB & GUTTER, MAG STD DET 220-1, TYPE A, H=6"	LF	541
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	809
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	2498
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	60
8	DECORATIVE BRICK PAVERS, MAG STD DET. 225	SF	916
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	238
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.96
11	CONCRETE VALLEY GUTTER/APRON MAG STD DET 240	SF	561
12	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	4018
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	132
17	CONCRETE SIDEWALK RAMP, COP STD DET P1241-2	SF	282
19	TRUNCATED DOMES, COP STD DET P1232	SF	40
20	CONCRETE SIDEWALK RAMP, COP STD DET P1238-2	SF	346
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	5
26	CONCRETE SIDEWALK RAMP, COP STD DET P1240	SF	354
28	ADJUST SURVEY MONUMENT HH FRAME & COVER, STD DET P1270	EA	1
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	600
37	TRIPLE CONCRETE SCUPPER, MAG STD DET 206	EA	1

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

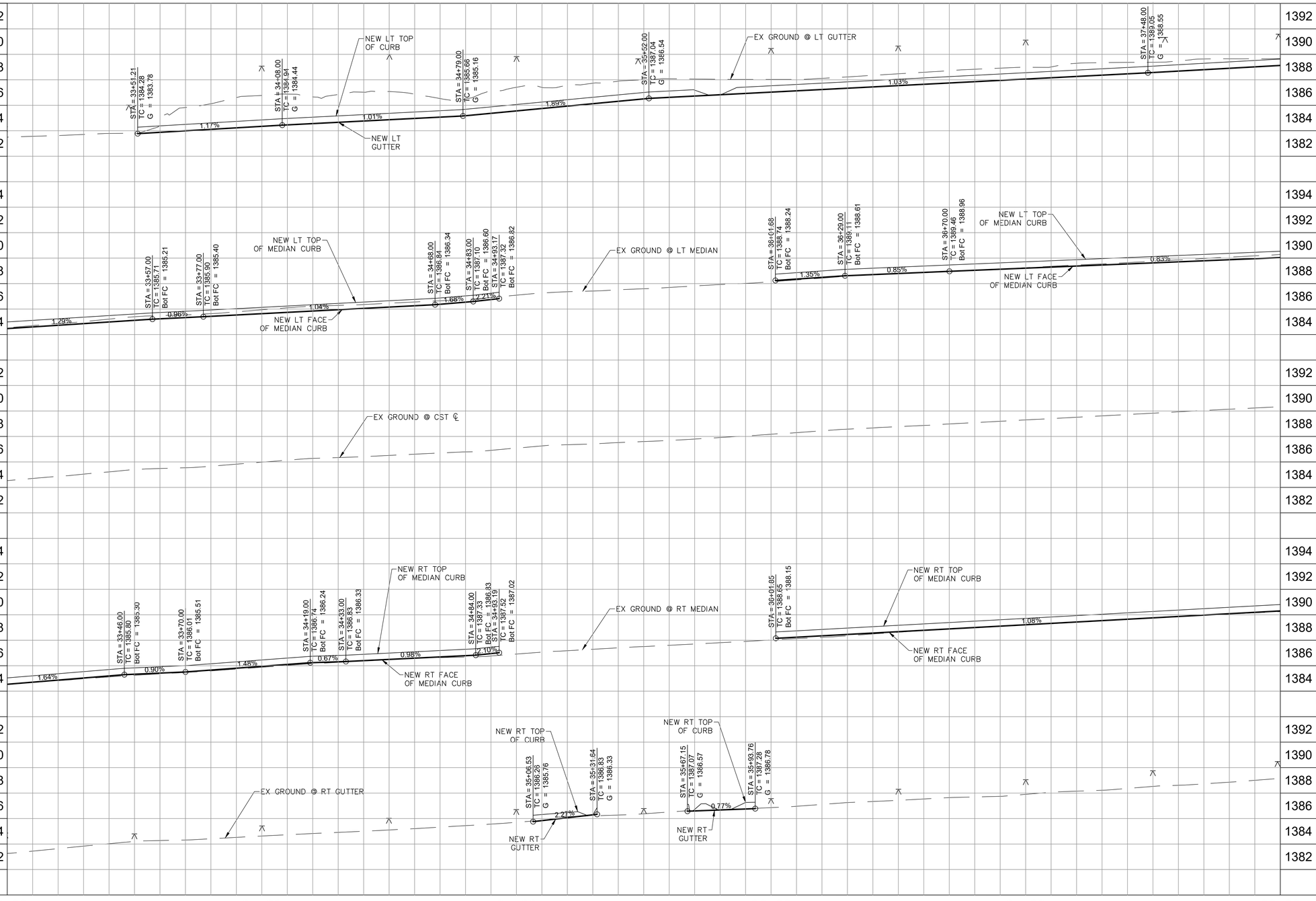
DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.11
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			71 OF 364

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CKD BY | DATE

SHEET NAME: ST85100437PL06.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	72	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

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ROADWAY PROFILE

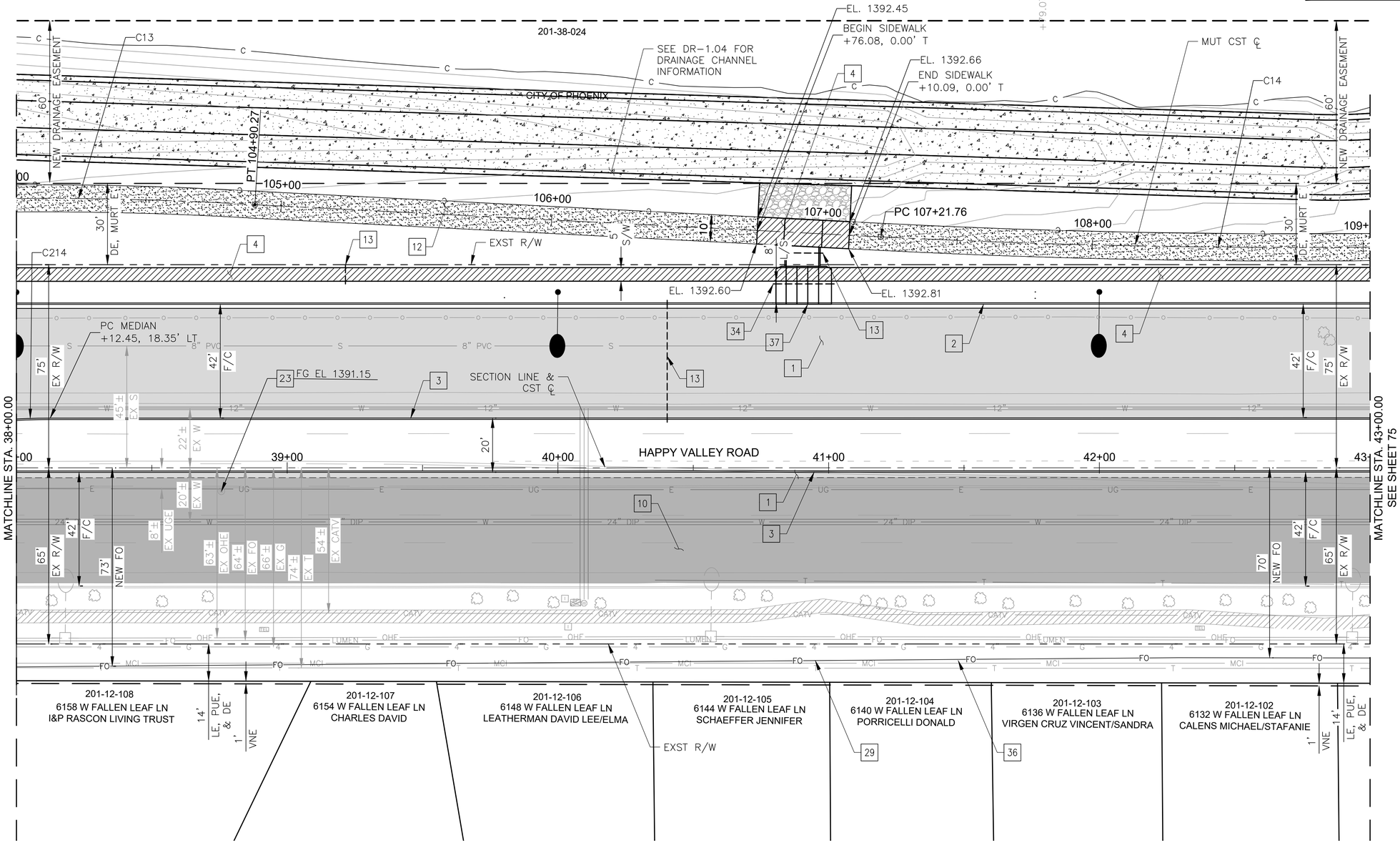
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.12
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			72 OF 364

SHEET NAME: ST85100437PRO06.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	73	368	

06/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	2361
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	195
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	651
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.57
	AGGREGATE BASE COURSE, 4" THICK	TON	514
	LIME TREATED SUBGRADE, 6" THICK	SY	2361
2	CONCRETE CURB & GUTTER, MAG STD DET 220-1, TYPE A, H=6"	LF	500
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	1000
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	2840
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	179
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.72
12	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	4664
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	67
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	1
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
34	6" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	22
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	550
37	TRIPLE CONCRETE SCUPPER, MAG STD DET 206	EA	1

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C13	227.595	1295.000	010°04'11"
C14	415.807	2995.000	007°57'17"
C214	55.198	252.500	012°31'30"

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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ARIZONA811
Call 811 or click Arizona811.com

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.13
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			73 OF 364

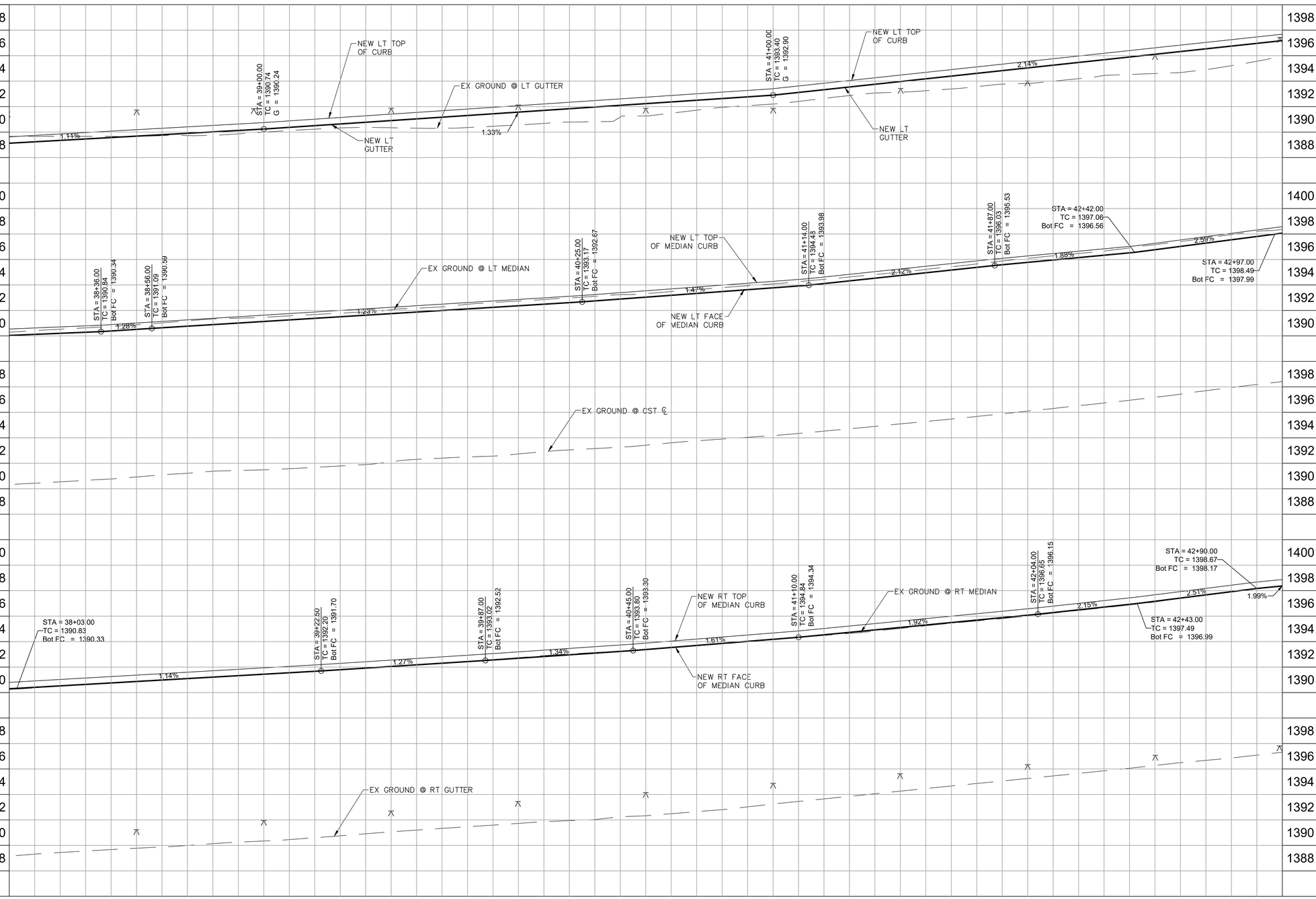
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437PL07.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	74	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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ROADWAY PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

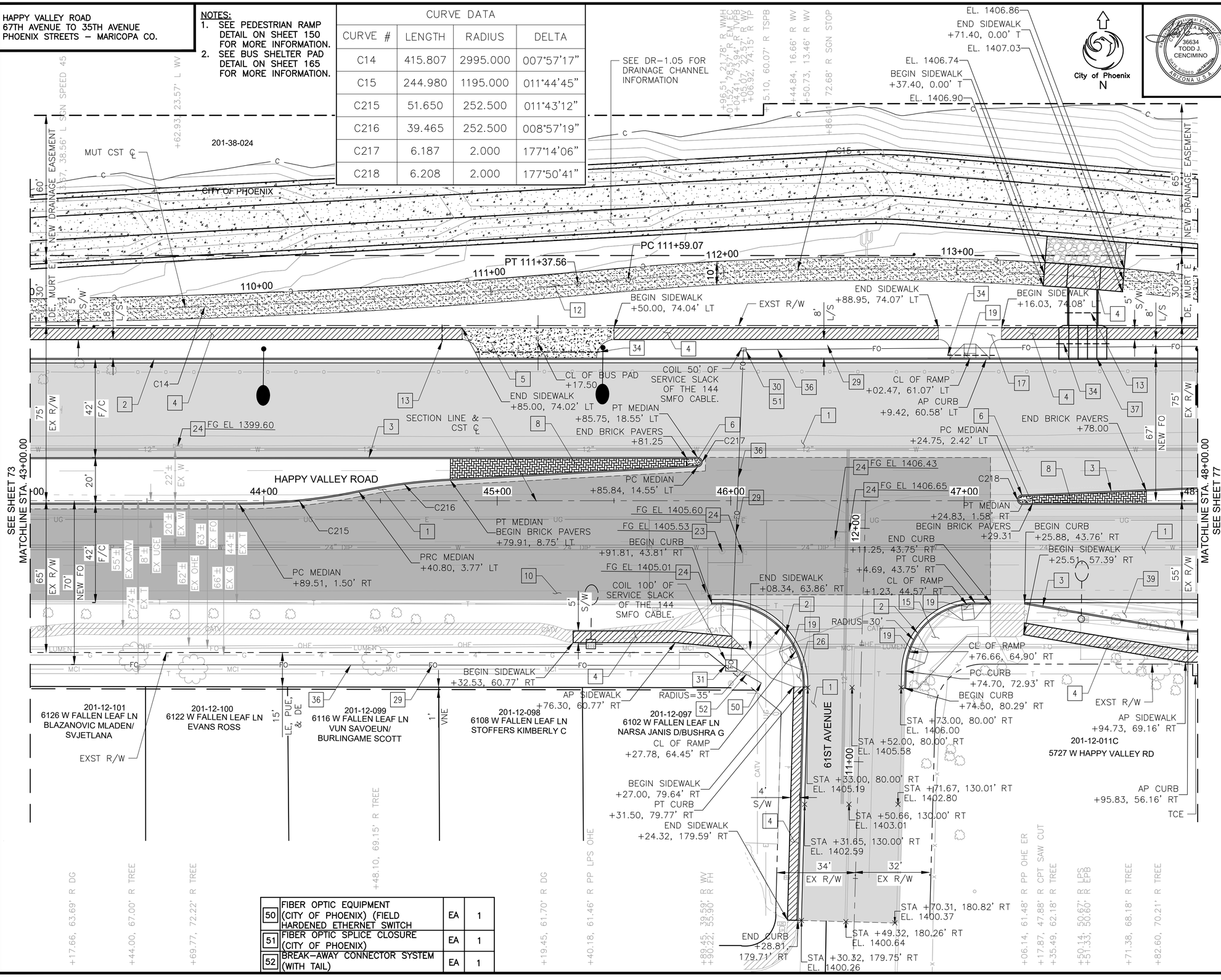
DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.14
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			74 OF 364

SHEET NAME: ST85100437PR007.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. SEE PEDESTRIAN RAMP DETAIL ON SHEET 150 FOR MORE INFORMATION.
2. SEE BUS SHELTER PAD DETAIL ON SHEET 165 FOR MORE INFORMATION.

CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C14	415.807	2995.000	007°57'17"
C15	244.980	1195.000	011°44'45"
C215	51.650	252.500	011°43'12"
C216	39.465	252.500	008°57'19"
C217	6.187	2.000	177°14'06"
C218	6.208	2.000	177°50'41"



50	FIBER OPTIC EQUIPMENT (CITY OF PHOENIX) (FIELD HARDENED ETHERNET SWITCH	EA	1
51	FIBER OPTIC SPLICE CLOSURE (CITY OF PHOENIX)	EA	1
52	BREAK-AWAY CONNECTOR SYSTEM (WITH TAIL)	EA	1

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	75	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
	SUBGRADE PREPARATION	SY	3549
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	293
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	978
1	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	2.37
	AGGREGATE BASE COURSE, 4" THICK	TON	772
	LIME TREATED SUBGRADE, 6" THICK	SY	3549
2	CONCRETE CURB & GUTTER, MAG STD DET 220-1, TYPE A, H=6"	LF	721
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	811
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	3520
5	BUS SHELTER/ACCESSORY PAD COP STD DET P1262	SF	752
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	35
8	DECORATIVE BRICK PAVERS, MAG STD DET. 225	SF	814
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	187
10	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.75
12	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	4668
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	22
15	CONCRETE CURB RAMP, COP STD DET P1236	SF	655
17	CONCRETE SIDEWALK RAMP, COP STD DET P1241-2	SF	282
19	TRUNCATED DOMES, COP STD DET P1232	SF	40
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	1
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	5
26	CONCRETE CURB RAMP, COP STD DET P1240	SF	577
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	715
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	1
31	PULLBOX (NO. 9) (CITY OF PHOENIX)	EA	1
34	6" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	95
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	915
37	TRIPLE CONCRETE SCUPPER, MAG STD DET 206	EA	1
39	CONCRETE BUS BAY PAVEMENT COP STD DET P1256-1	SF	471

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.15
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			75 OF 364

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CKD BY | DATE

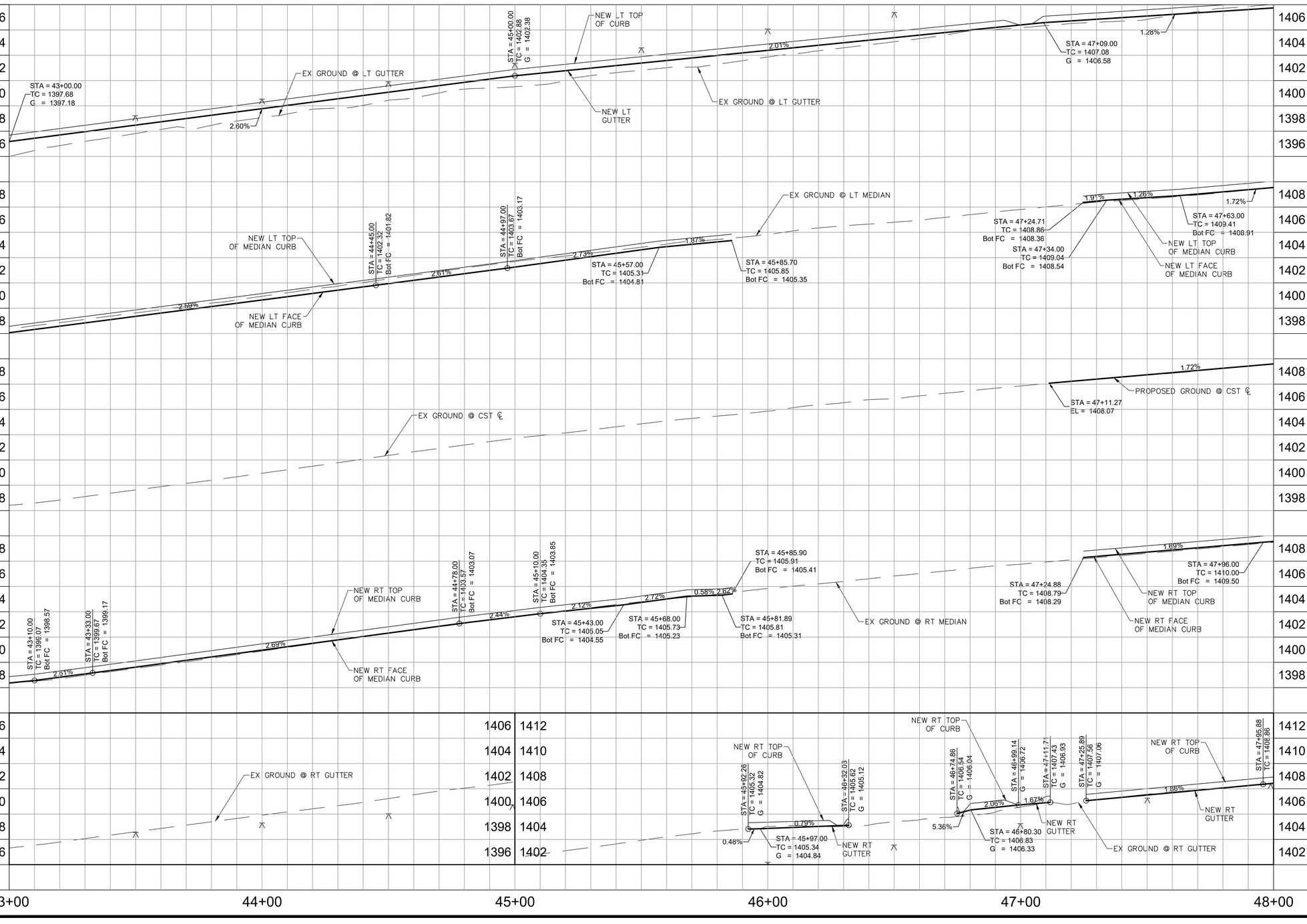
SHEET NAME: ST85100437PL08.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

36634
TODD J. CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	76	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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ROADWAY PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

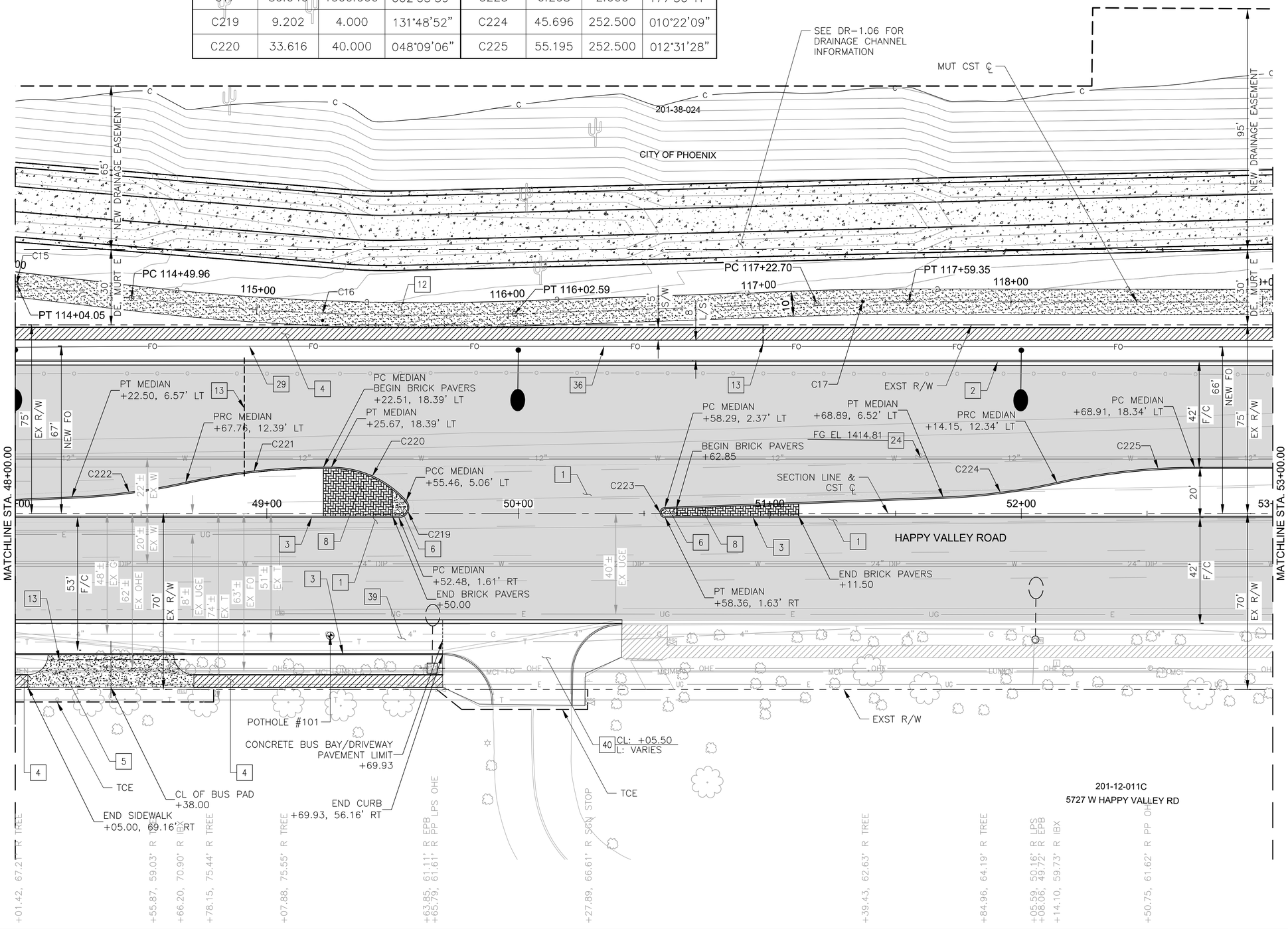
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.16
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			76 OF 364

SHEET NAME: ST85100437PROO8.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

CURVE DATA				CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA	CURVE #	LENGTH	RADIUS	DELTA
C15	244.980	1195.000	011°44'45"	C221	55.195	252.500	012°31'28"
C16	152.630	1000.000	008°44'42"	C222	45.696	252.500	010°22'09"
C17	36.646	1000.000	002°05'59"	C223	6.208	2.000	177°50'41"
C219	9.202	4.000	131°48'52"	C224	45.696	252.500	010°22'09"
C220	33.616	40.000	048°09'06"	C225	55.195	252.500	012°31'28"



City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	77	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	5016
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	415
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1383
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	3.34
	AGGREGATE BASE COURSE, 4" THICK	TON	1091
	LIME TREATED SUBGRADE, 6" THICK	SY	5016
2	CONCRETE CURB & GUTTER, MAG STD DET 220-1, TYPE A, H=6"	LF	500
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	983
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	3020
5	BUS SHELTER/ACCESSORY PAD COP STD DET P1260	SF	752
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	62
8	DECORATIVE BRICK PAVERS, MAG STD DET. 225	SF	656
12	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	5007
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	107
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	1
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	550
39	CONCRETE BUS BAY PAVEMENT COP STD DET P1256-1	SF	2273
40	CONCRETE DRIVEWAY, RETURN TYPE COP STD DET P1243	SF	2127

NOTES:
1. SEE BUS SHELTER PAD DETAIL ON SHEET 165 FOR MORE INFORMATION.
2. SEE PEDESTRIAN RAMP DETAIL ON SHEET 151 FOR MORE INFORMATION.
3. SEE DRIVEWAY DETAIL ON SHEET 174 FOR MORE INFORMATION.
4. SEE REMOVAL PLAN ON SHEET 26 FOR MORE INFORMATION ON POTHOLES.

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.17
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			77 OF 364

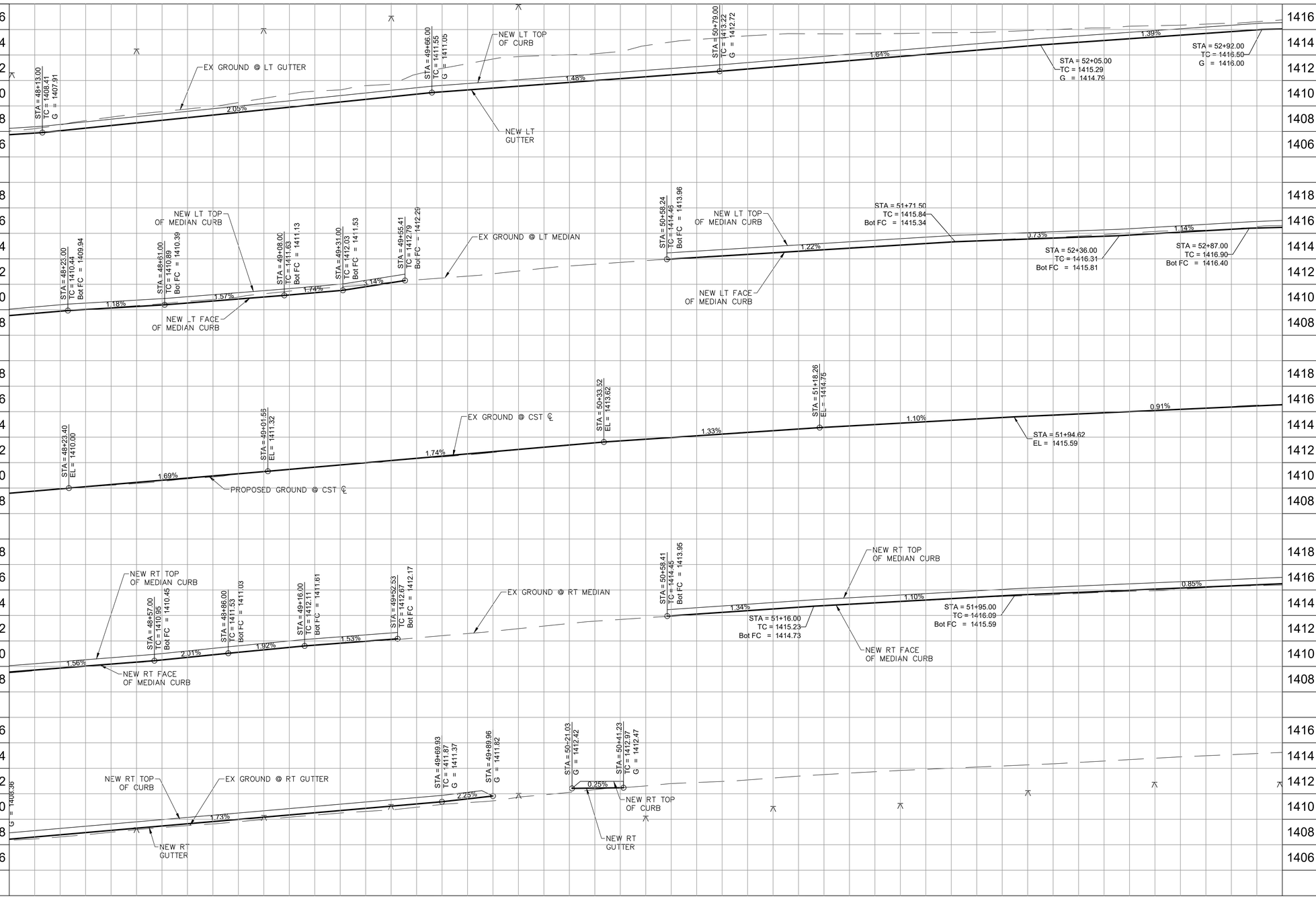
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437PL09.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	78	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PROFILE

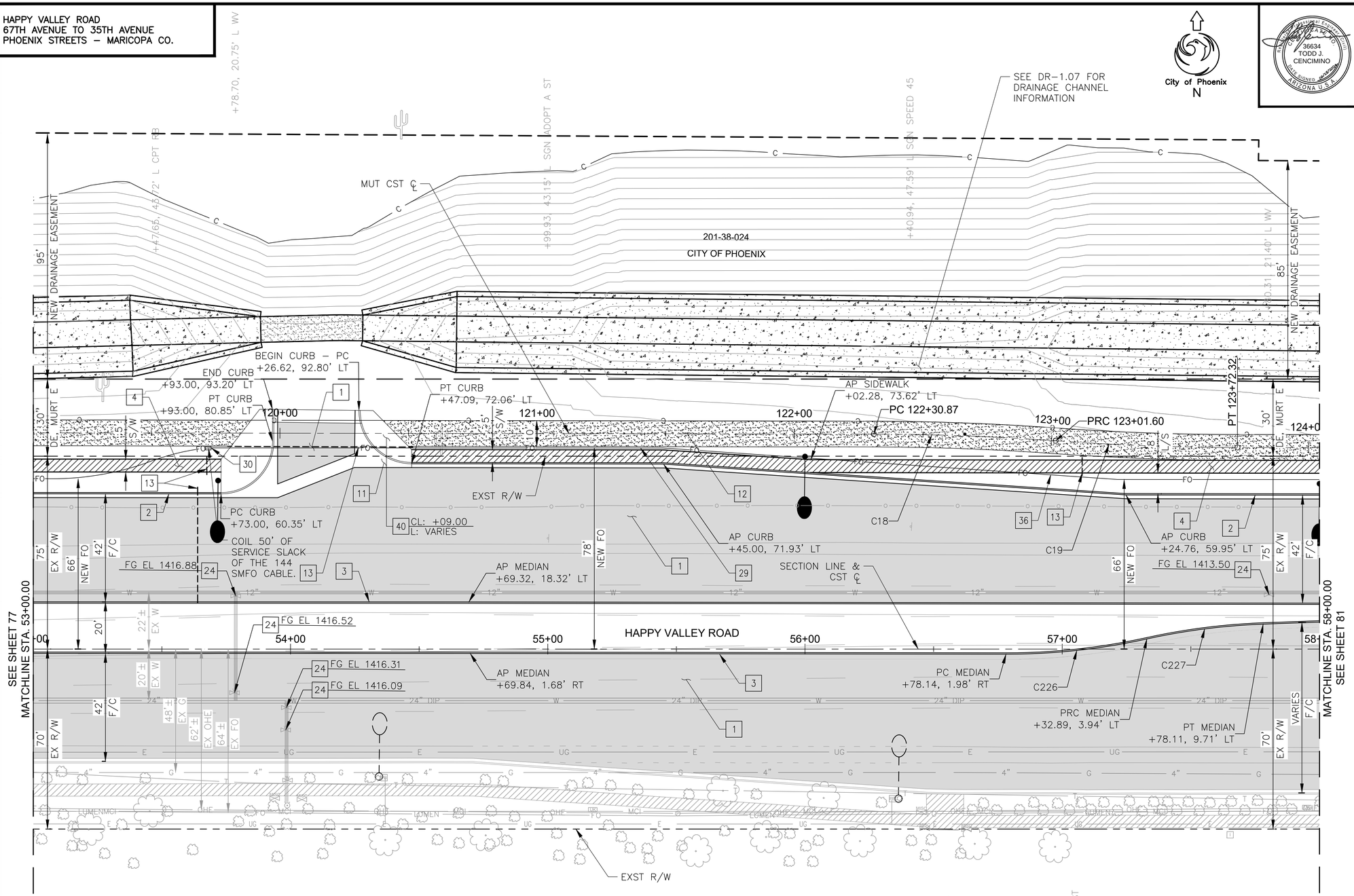
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.18
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL 1" = 4' VERTICAL			78 OF 364

SHEET NAME: ST85100437PRO09.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	79	368	

06/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	5163
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	428
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1423
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	3.45
	AGGREGATE BASE COURSE, 4" THICK	TON	1123
	LIME TREATED SUBGRADE, 6" THICK	SY	5163
2	CONCRETE CURB & GUTTER, MAG STD DET 220-1, TYPE A, H=6"	LF	426
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	1001
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	2130
11	CONCRETE VALLEY GUTTER/APRON MAG STD DET 240	SF	490
12	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	4400
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	131
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	5
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	1
34	6" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	28
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	600
40	CONCRETE DRIVEWAY, RETURN TYPE COP STD DET P1243	SF	792

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C18	70.725	1000.000	004°03'08"
C19	70.725	1000.000	004°03'08"
C226	55.187	252.500	012°31'21"
C227	45.648	252.500	010°21'30"

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

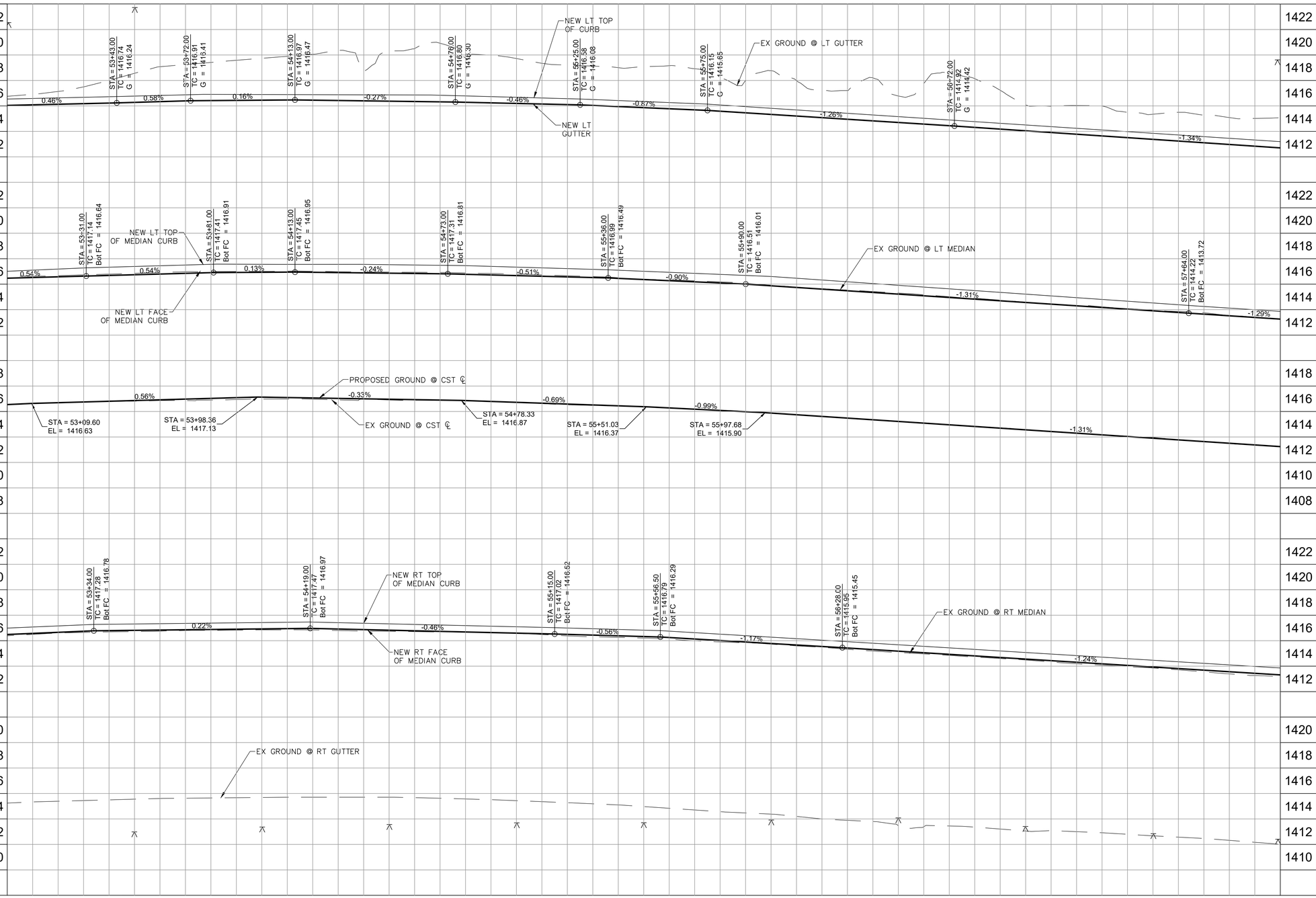
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.19
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			79 OF 364

SHEET NAME: ST85100437PL10.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

36634
TODD J. CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	80	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.20
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL 1" = 4' VERTICAL			80 OF 364

SHEET NAME: ST85100437PRO10.DWG, PLOT DATE: 5/28/2024

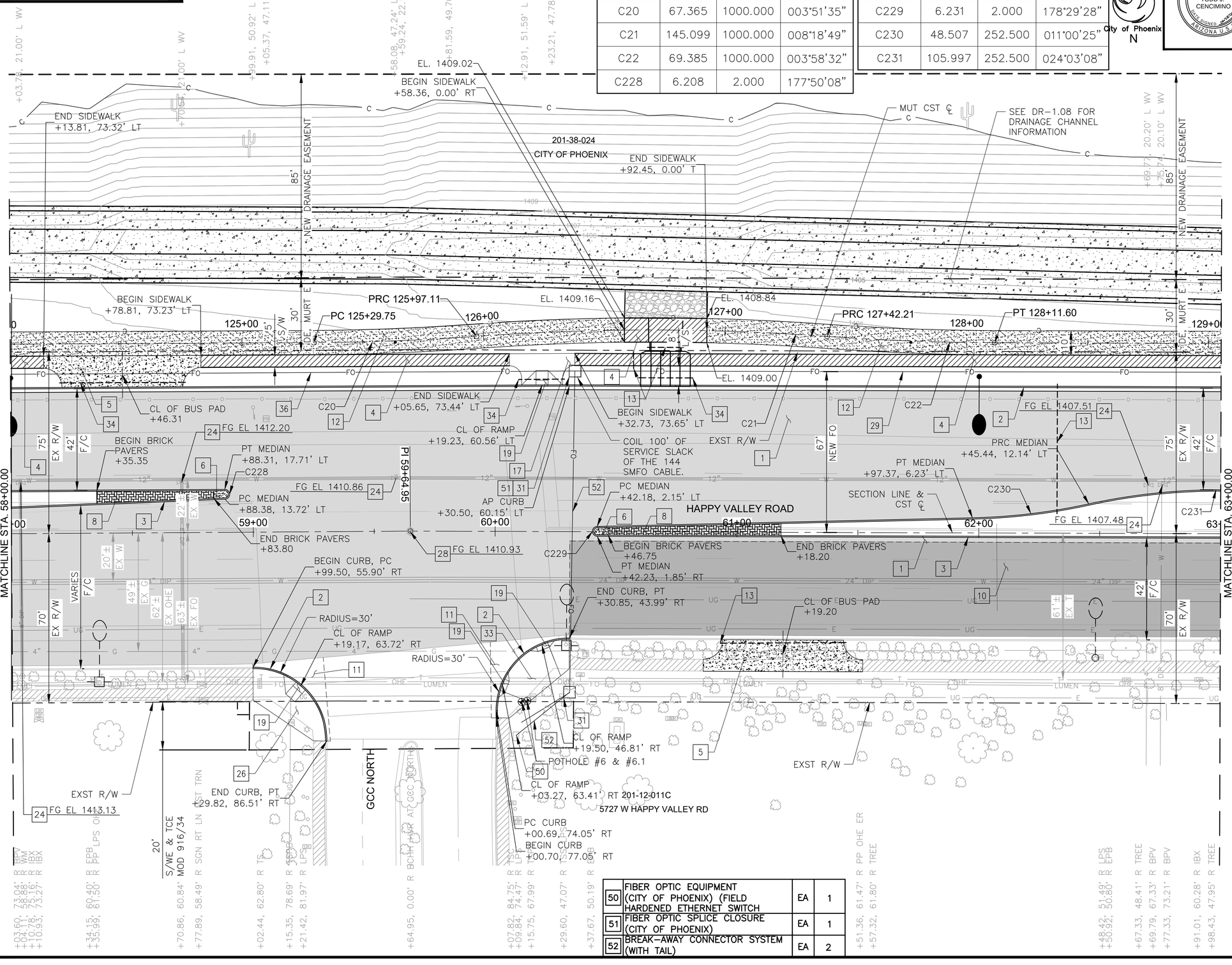
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C20	67.365	1000.000	003°51'35"
C21	145.099	1000.000	008°18'49"
C22	69.385	1000.000	003°58'32"
C228	6.208	2.000	177°50'08"

CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C229	6.231	2.000	178°29'28"
C230	48.507	252.500	011°00'25"
C231	105.997	252.500	024°03'08"

City of Phoenix
N

36634
TODD J.
CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.



50	FIBER OPTIC EQUIPMENT (CITY OF PHOENIX) (FIELD HARDENED ETHERNET SWITCH	EA	1
51	FIBER OPTIC SPLICE CLOSURE (CITY OF PHOENIX)	EA	1
52	BREAK-AWAY CONNECTOR SYSTEM (WITH TAIL)	EA	2

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	81	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	4355
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	360
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1200
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	2.90
	AGGREGATE BASE COURSE, 4" THICK	TON	947
	LIME TREATED SUBGRADE, 6" THICK	SY	4355
2	CONCRETE CURB & GUTTER, MAG STD DET 220-1, TYPE A, H=6"	LF	598
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	706
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	2383
5	BUS SHELTER/ACCESSORY PAD COP STD DET P1262	SF	1514
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	35
8	DECORATIVE BRICK PAVERS, MAG STD DET. 225	SF	488
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	96
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.39
11	CONCRETE VALLEY GUTTER/APRON MAG STD DET 240	SF	538
12	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	4670
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	129
17	CONCRETE SIDEWALK RAMP, COP STD DET P1241-2	SF	282
19	TRUNCATED DOMES, COP STD DET P1232	SF	40
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	5
26	CONCRETE CURB RAMP, COP STD DET P1240	SF	499
28	ADJUST SURVEY MONUMENT HH FRAME & COVER, STD DET P1270	EA	1
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
31	PULLBOX (NO. 9) (CITY OF PHOENIX)	EA	2
33	CONCRETE CURB RAMP, MCDOT STD DET 2022	SF	528
34	6" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	93
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	650
37	TRIPLE CONCRETE SCUPPER MAG STD DET 206	EA	1

NOTES:
1. SEE BUS SHELTER PAD DETAIL ON SHEET 166 FOR MORE INFORMATION.
2. SEE PEDESTRIAN RAMP DETAIL ON SHEET 152 FOR MORE INFORMATION.
3. SEE REMOVAL PLAN ON SHEET 28 FOR MORE INFORMATION ON POTHOLES.

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

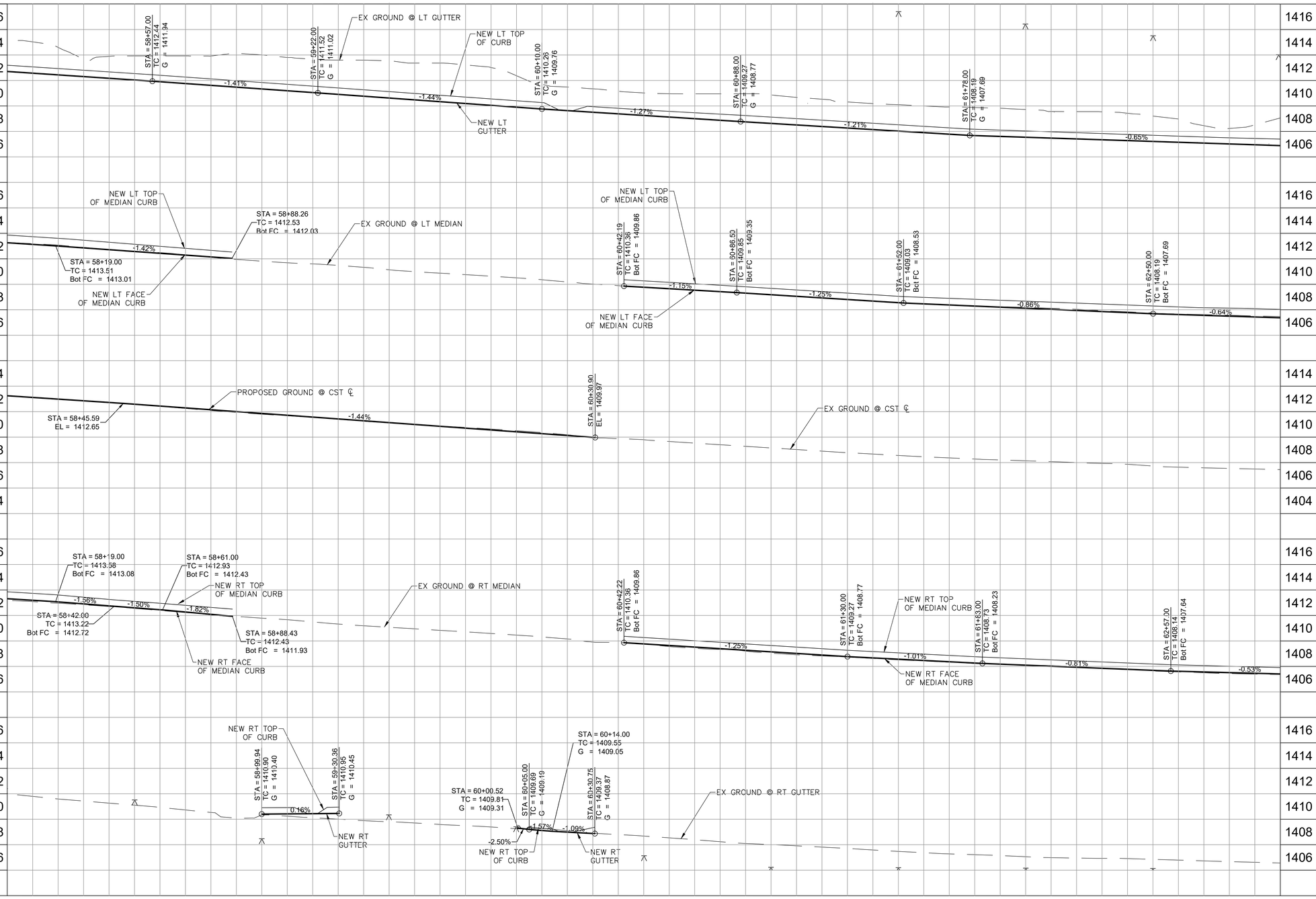
DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.21
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			81 OF 364

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437PL11.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	82	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

36634
TODD J. CENCIMINO
REGISTERED ARIZONA U.S.A.

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ROADWAY PROFILE

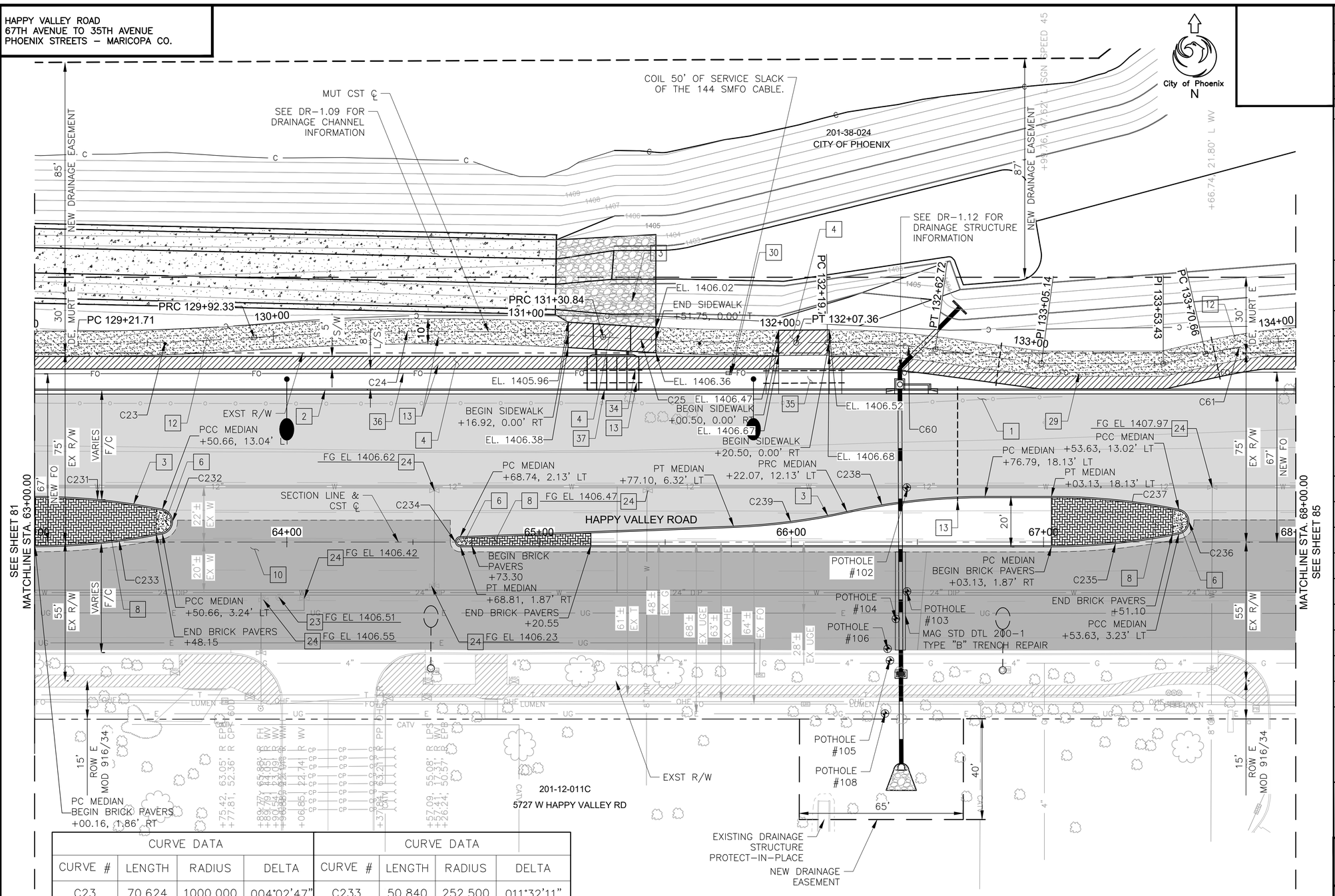
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.22
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL 1" = 4' VERTICAL			82 OF 364

SHEET NAME: ST85100437PRO111.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



CURVE DATA				CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA	CURVE #	LENGTH	RADIUS	DELTA
C23	70.624	1000.000	004°02'47"	C233	50.840	252.500	011°32'11"
C24	138.513	1000.000	007°56'10"	C234	6.206	2.000	177°47'10"
C25	76.512	1000.000	004°23'02"	C235	50.840	252.500	011°32'11"
C60	42.944	300.000	008°12'06"	C236	13.694	5.000	156°55'38"
C61	54.083	250.000	012°23'42"	C237	50.840	252.500	011°32'11"
C231	105.997	252.500	024°03'08"	C238	55.156	252.500	012°30'57"
C232	13.694	5.000	156°55'38"	C239	45.399	252.500	010°18'06"

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	83	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	2754
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	228
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	759
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS–1H	TON	1.84
	AGGREGATE BASE COURSE, 4" THICK	TON	599
	LIME TREATED SUBGRADE, 6" THICK	SY	2754
2	CONCRETE CURB & GUTTER, MAG STD DET 220–1, TYPE A, H=6"	LF	500
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	707
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	2956
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	110
8	DECORATIVE BRICK PAVERS, MAG STD DET. 225	SF	1723
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	198
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS–1H	TON	0.80
12	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	4569
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	105
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	1
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391–1	EA	6
29	ELECTRICAL CONDUIT (2–1.25") (PVC)	LF	550
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	1
34	6" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	23
35	CONCRETE DRIVEWAY ENTRANCE, COP STD DET P1255–2	SF	345
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	600
37	TRIPLE CONCRETE SCUPPER, MAG STD DET 206	EA	1

NOTES:
1. UTILITY REMOVAL AND/OR RELOCATION TO BE DONE BY OTHERS AS NEEDED.
2. SEE REMOVAL PLAN ON SHEET 29 FOR MORE INFORMATION ON POTHOLES.

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

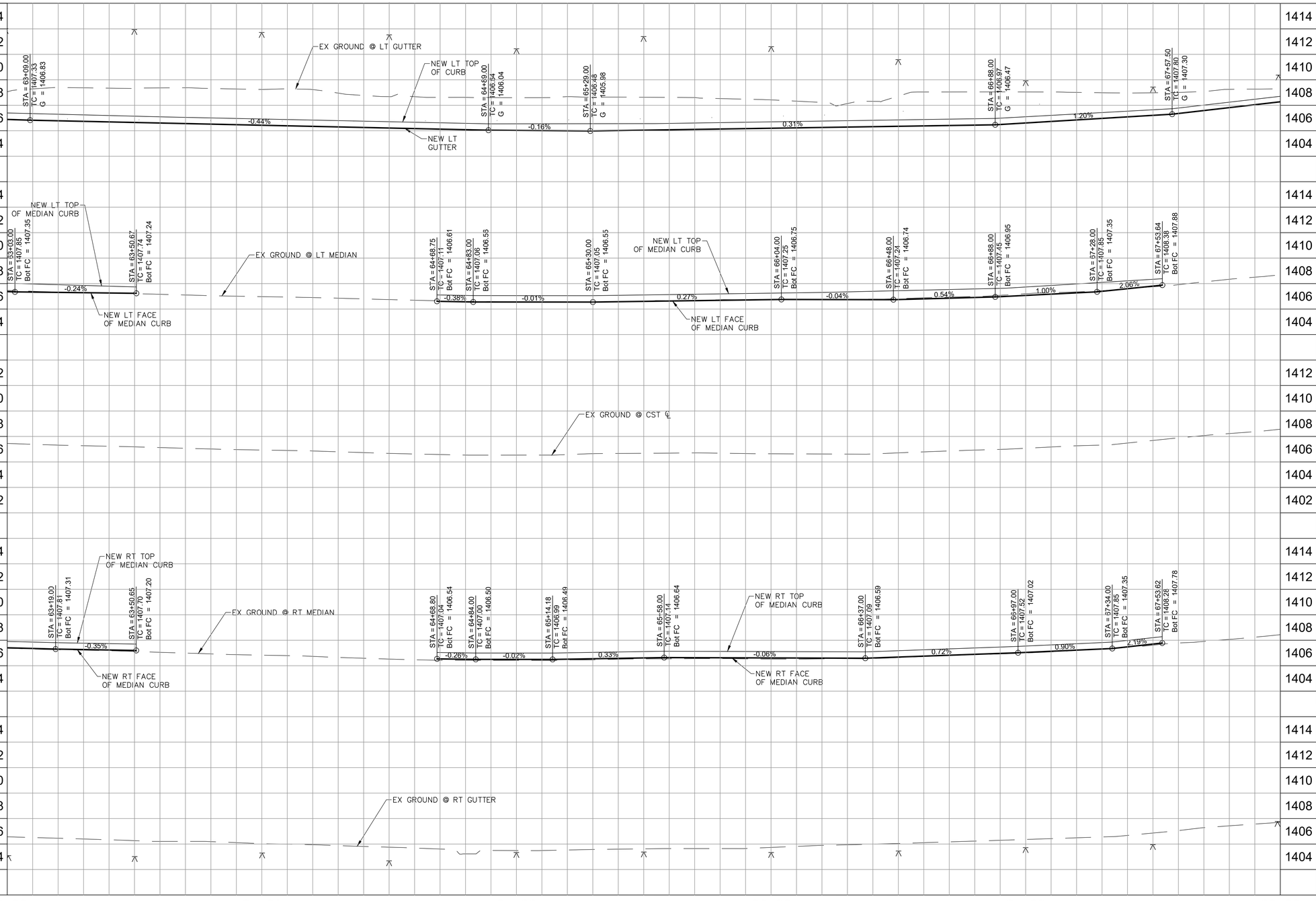
DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–2.23
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			83 OF 364

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CKD BY | DATE

SHEET NAME: ST85100437PL12.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE NO.
36634
TODD J. CENCIMINO
DATE SIGNED 05/24/24
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	84	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

Contact Arizona 811 at least two full working days before you begin excavation
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ROADWAY PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

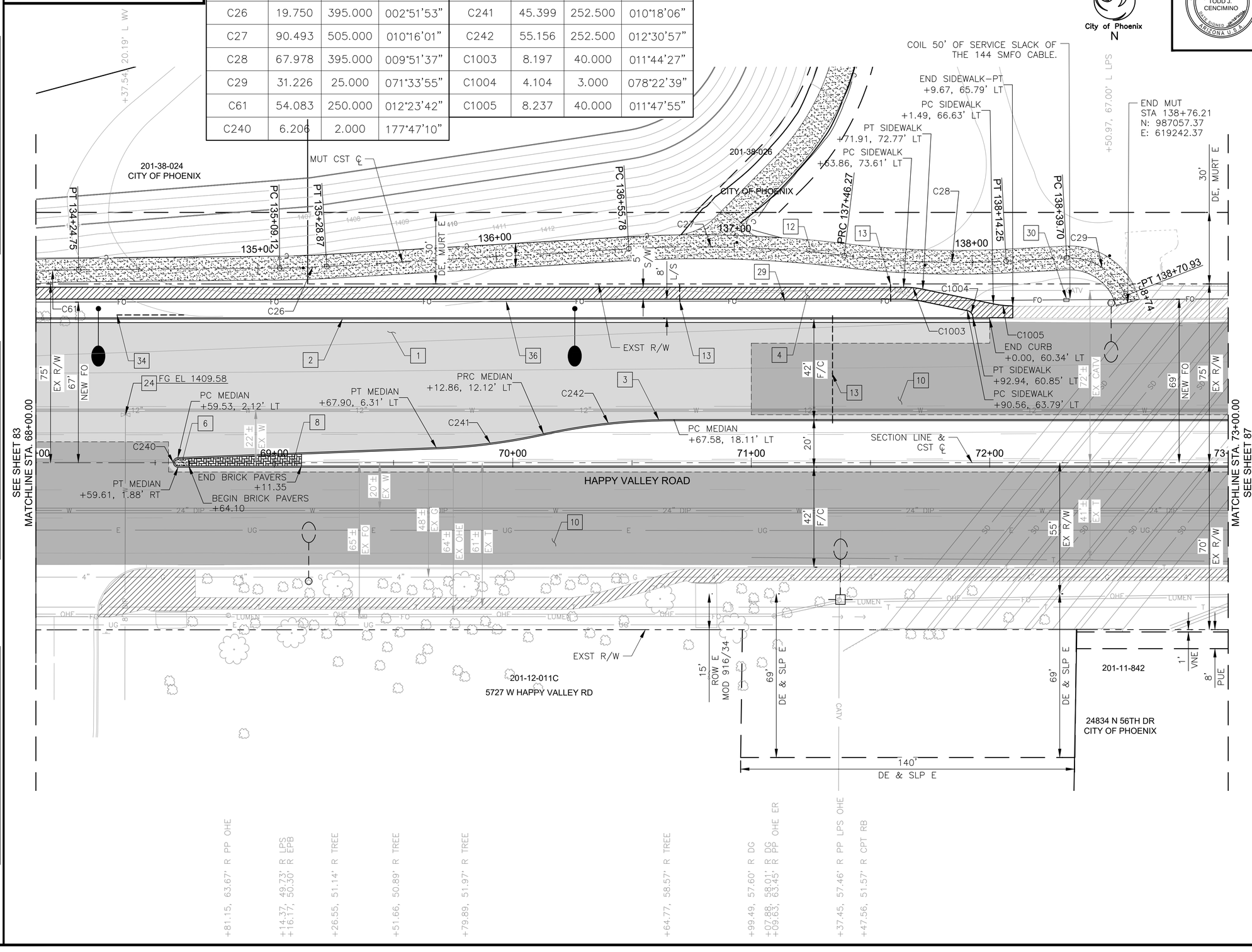
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.24
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			84 OF 364

SHEET NAME: ST85100437PRO12.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

CURVE DATA				CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA	CURVE #	LENGTH	RADIUS	DELTA
C26	19.750	395.000	002°51'53"	C241	45.399	252.500	010°18'06"
C27	90.493	505.000	010°16'01"	C242	55.156	252.500	012°30'57"
C28	67.978	395.000	009°51'37"	C1003	8.197	40.000	011°44'27"
C29	31.226	25.000	071°33'55"	C1004	4.104	3.000	078°22'39"
C61	54.083	250.000	012°23'42"	C1005	8.237	40.000	011°47'55"
C240	6.206	2.000	177°47'10"				



City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	85	368	

06/2024 DATE:
DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

WILSON & COMPANY

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	1889
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	156
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	521
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS–1H	TON	1.26
	AGGREGATE BASE COURSE, 4" THICK	TON	411
	LIME TREATED SUBGRADE, 6" THICK	SY	1889
2	CONCRETE CURB & GUTTER, MAG STD DET 220–1, TYPE A, H=6"	LF	400
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	888
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	2069
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	18
8	DECORATIVE BRICK PAVERS, MAG STD DET. 225	SF	193
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	248
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS–1H	TON	1.00
12	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	4881
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	59
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391–1	EA	1
29	ELECTRICAL CONDUIT (2–1.25") (PVC)	LF	550
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	1
34	6" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	28
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	600

NOTES:
1. UTILITY REMOVAL TO BE DONE BY OTHERS AS NEEDED.

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–2.25
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			85 OF 364

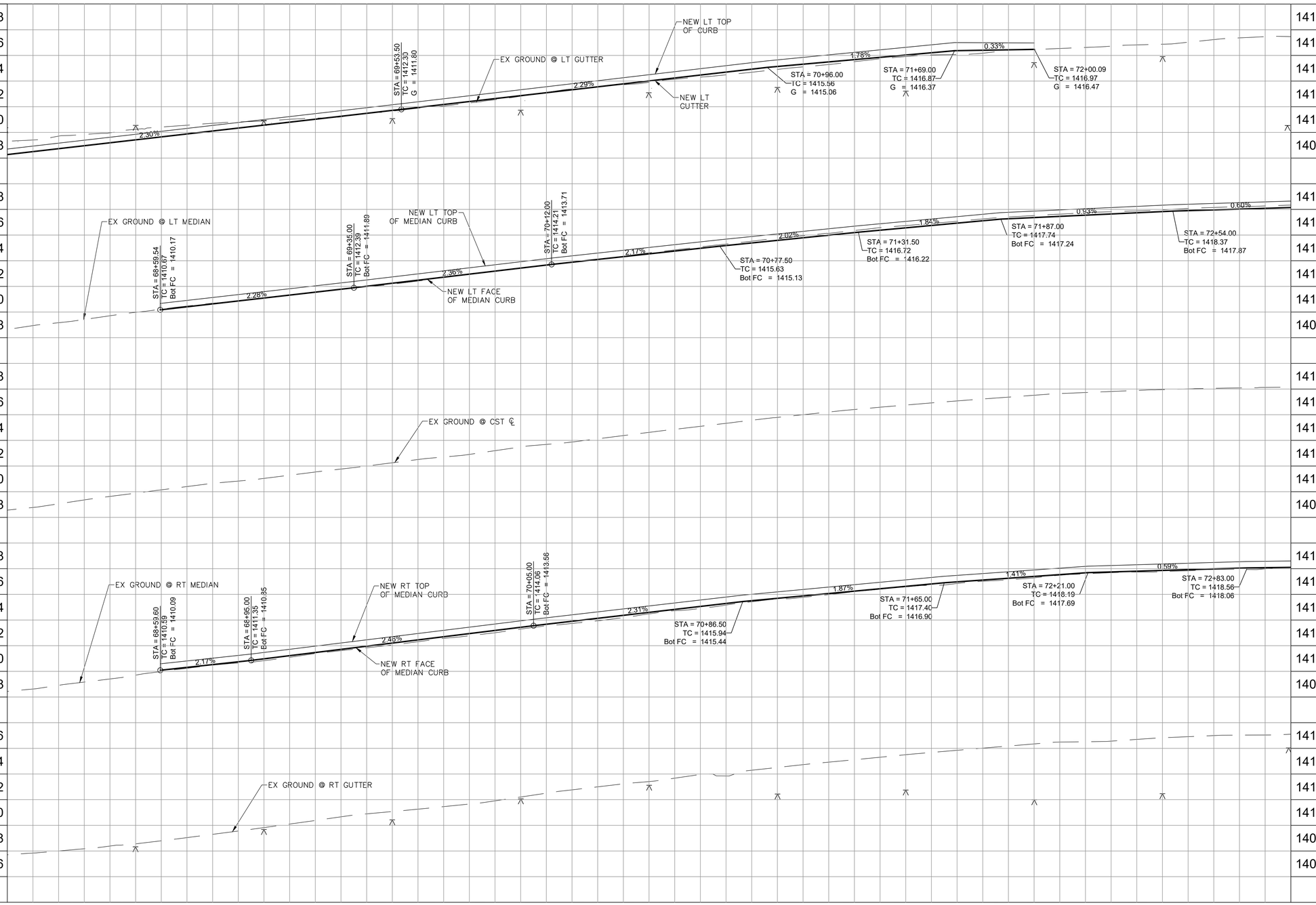
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437PL13.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

CERTIFICATE NO. 36634
TODD J. CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	86	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

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ROADWAY PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.26
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			86 OF 364

SHEET NAME: ST85100437PRO13.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

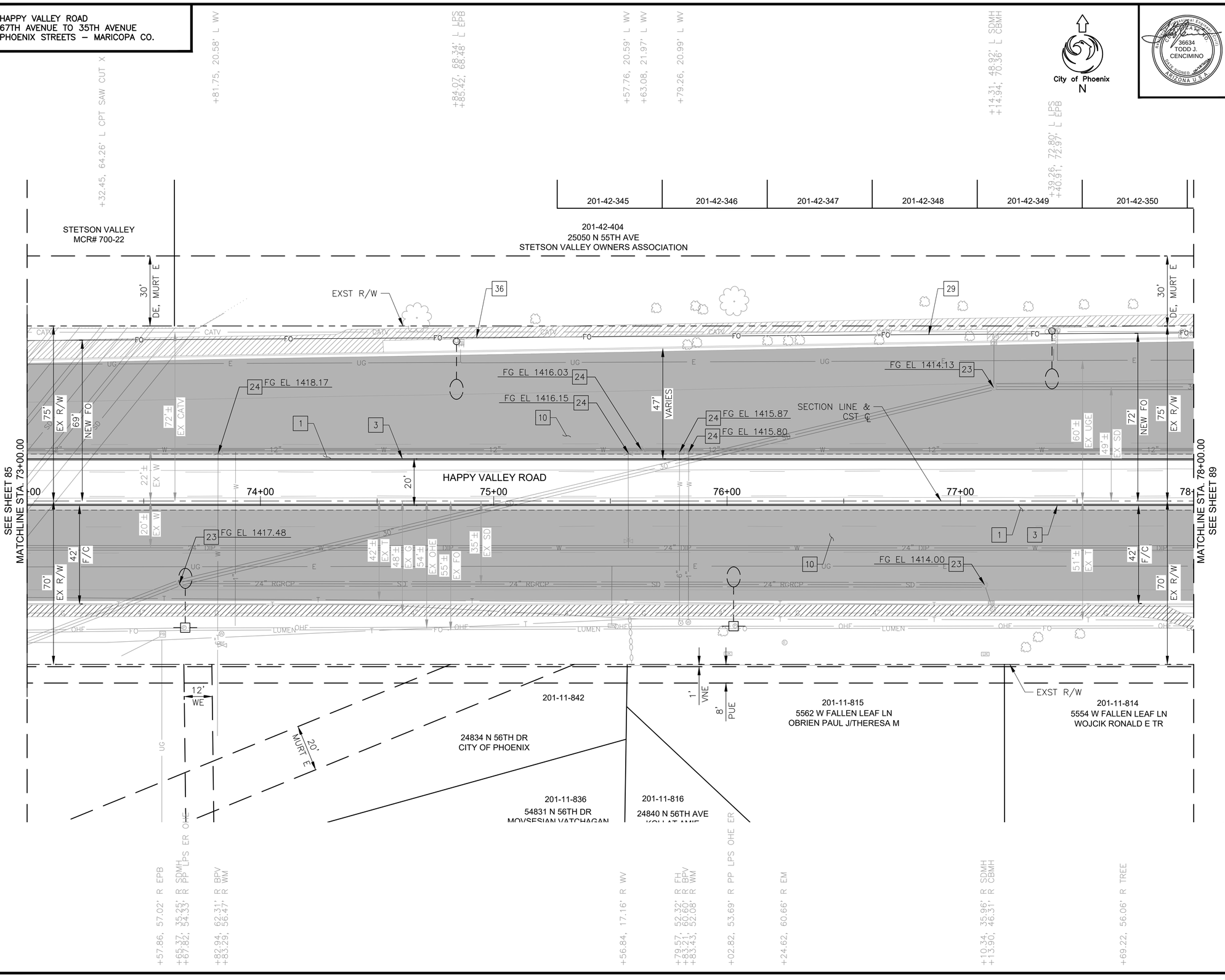
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	87	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	222
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	18
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	61
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.15
	AGGREGATE BASE COURSE, 4" THICK	TON	48
	LIME TREATED SUBGRADE, 6" THICK	SY	222
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	1000
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	378
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.53
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	3
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	5
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	550

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

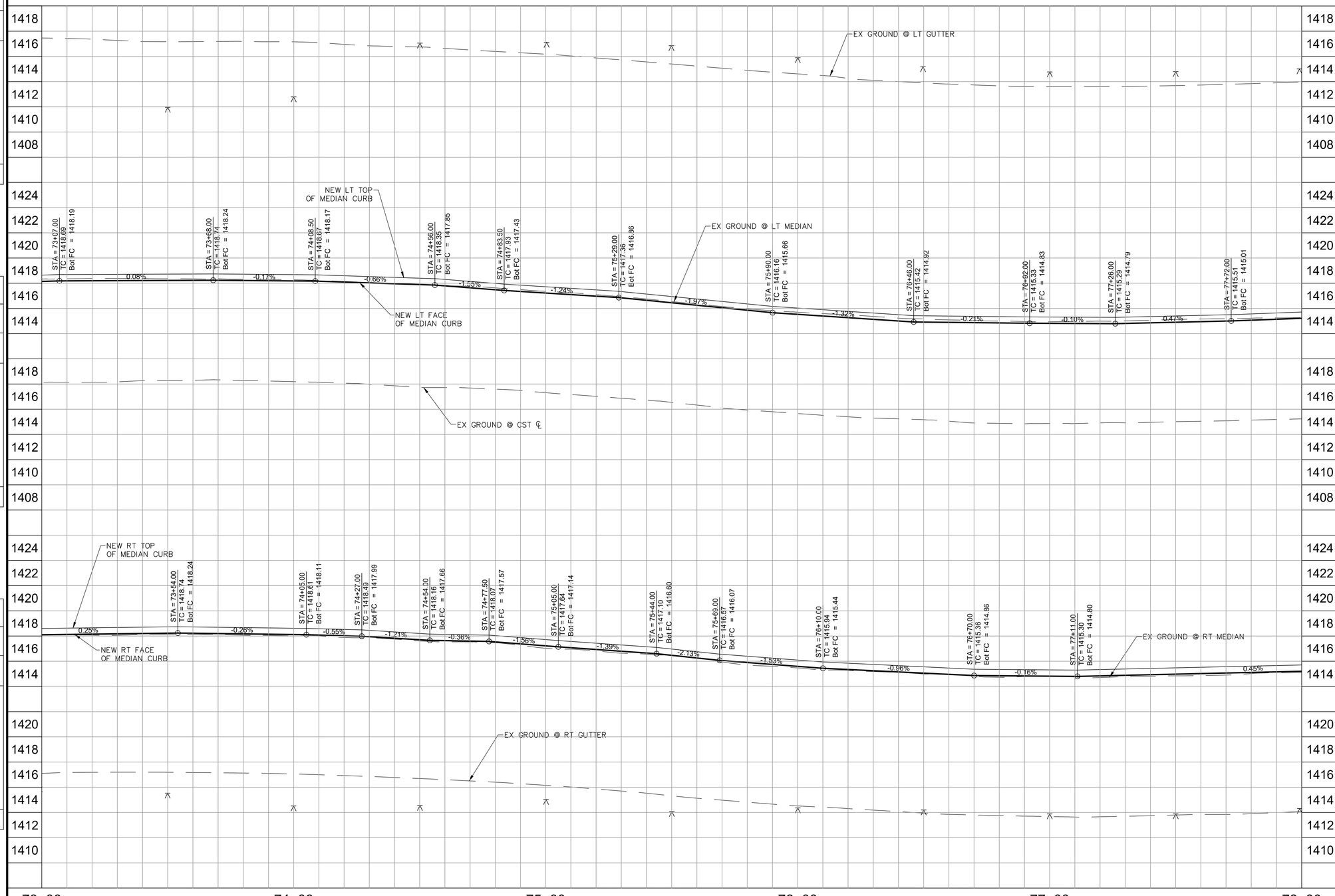
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.27
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			87 OF 364

SHEET NAME: ST85100437PL14.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

ARIZONA U.S.A. — REGISTERED PROFESSIONAL ENGINEER — 36634 TODD J. CENCIMINO — DATE SIGNED — CERTIFICATE NO.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	88	368	

05/2024 DATE:

WILSON & COMPANY — 2155 E. 17th Street, Tempe, Arizona 85281

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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ARIZONA811 Call 811 or click Arizona811.com

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ROADWAY PROFILE

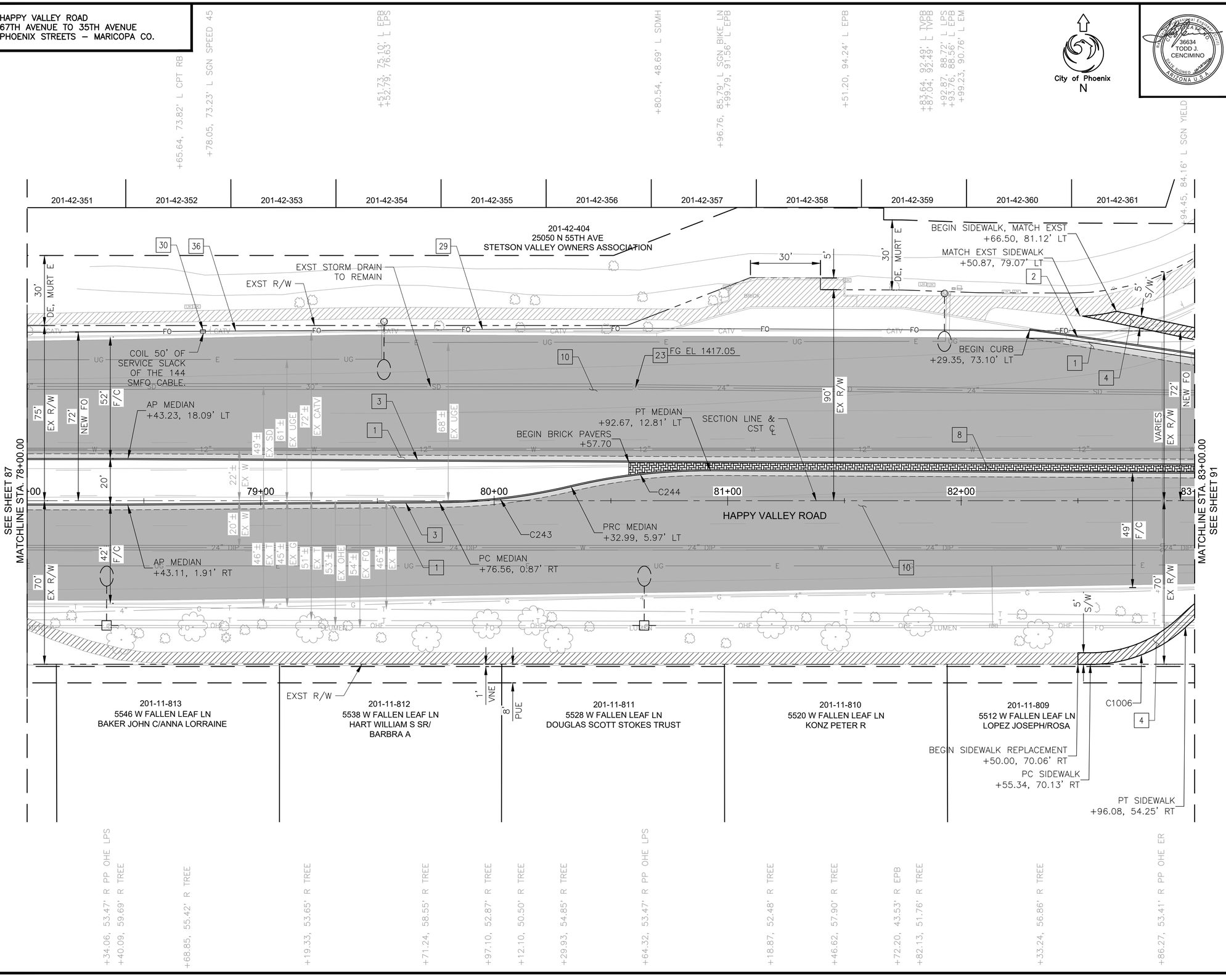
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.28
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			88 OF 364

SHEET NAME: ST85100437PRO14.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	89	368	

06/2024 DATE:

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	238
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	20
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	66
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.16
	AGGREGATE BASE COURSE, 4" THICK	TON	52
	LIME TREATED SUBGRADE, 6" THICK	SY	238
2	CONCRETE CURB & GUTTER MAG STD DET 220, TYPE A, H=6"	LF	71
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	1001
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	486
8	DECORATIVE BRICK PAVERS, MAG STD DET. 225	SF	755
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	431
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.74
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	1
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	600

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C243	56.955	252.500	012°55'26"
C244	60.222	252.500	013°39'54"
C1006	44.749	60.000	042°43'54"

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.29
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			89 OF 364

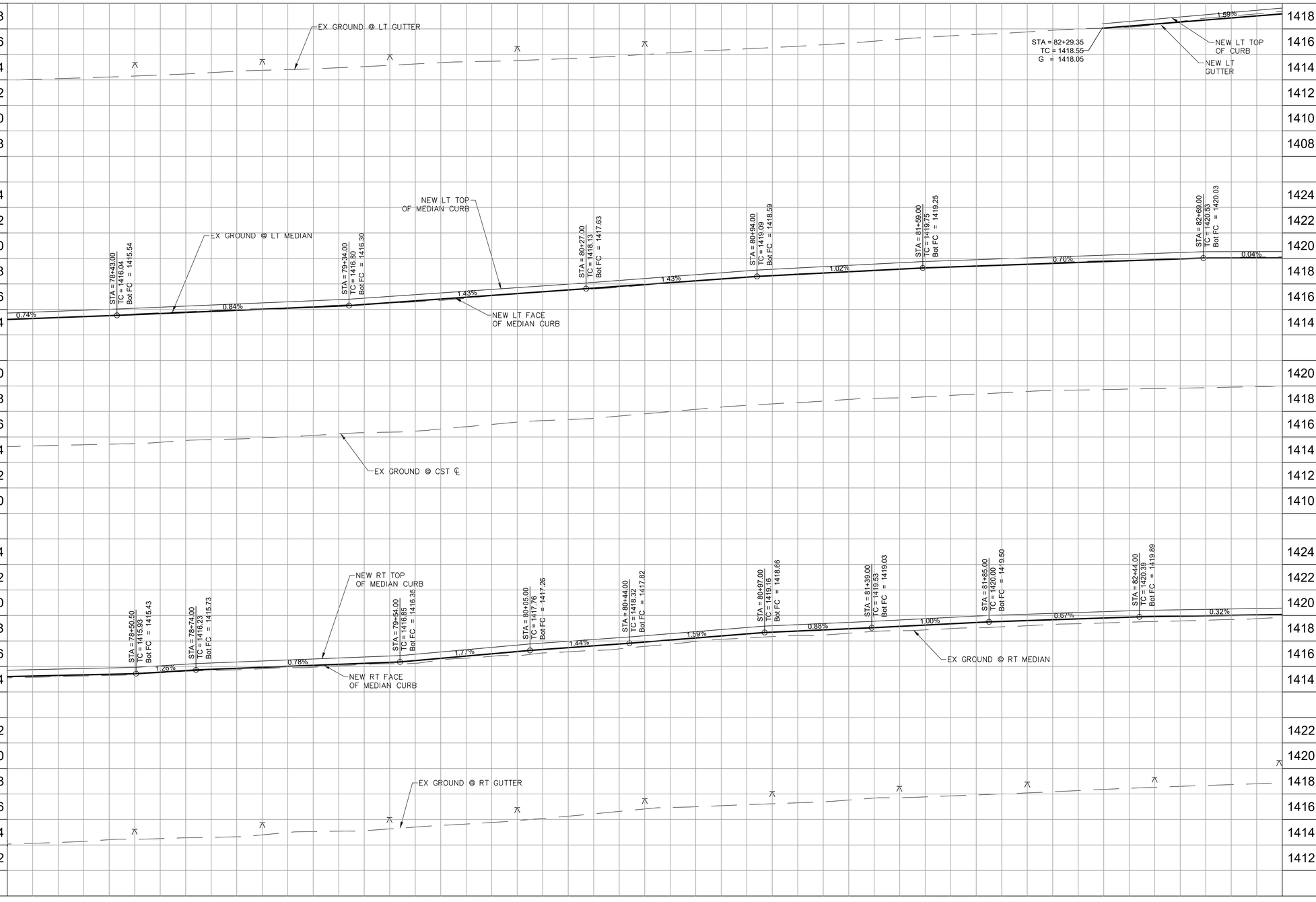
SHEET NAME: ST85100437PL15.DWG, PLOT DATE: 6/18/2024

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

ARIZONA U.S.A. 36634 TODD J. CENCIMINO REGISTERED PROFESSIONAL ENGINEER

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	90	368	

05/2024 DATE:

WILSON & COMPANY 50 W. Liberty Street, Reno, Nevada 89501

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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ROADWAY PROFILE

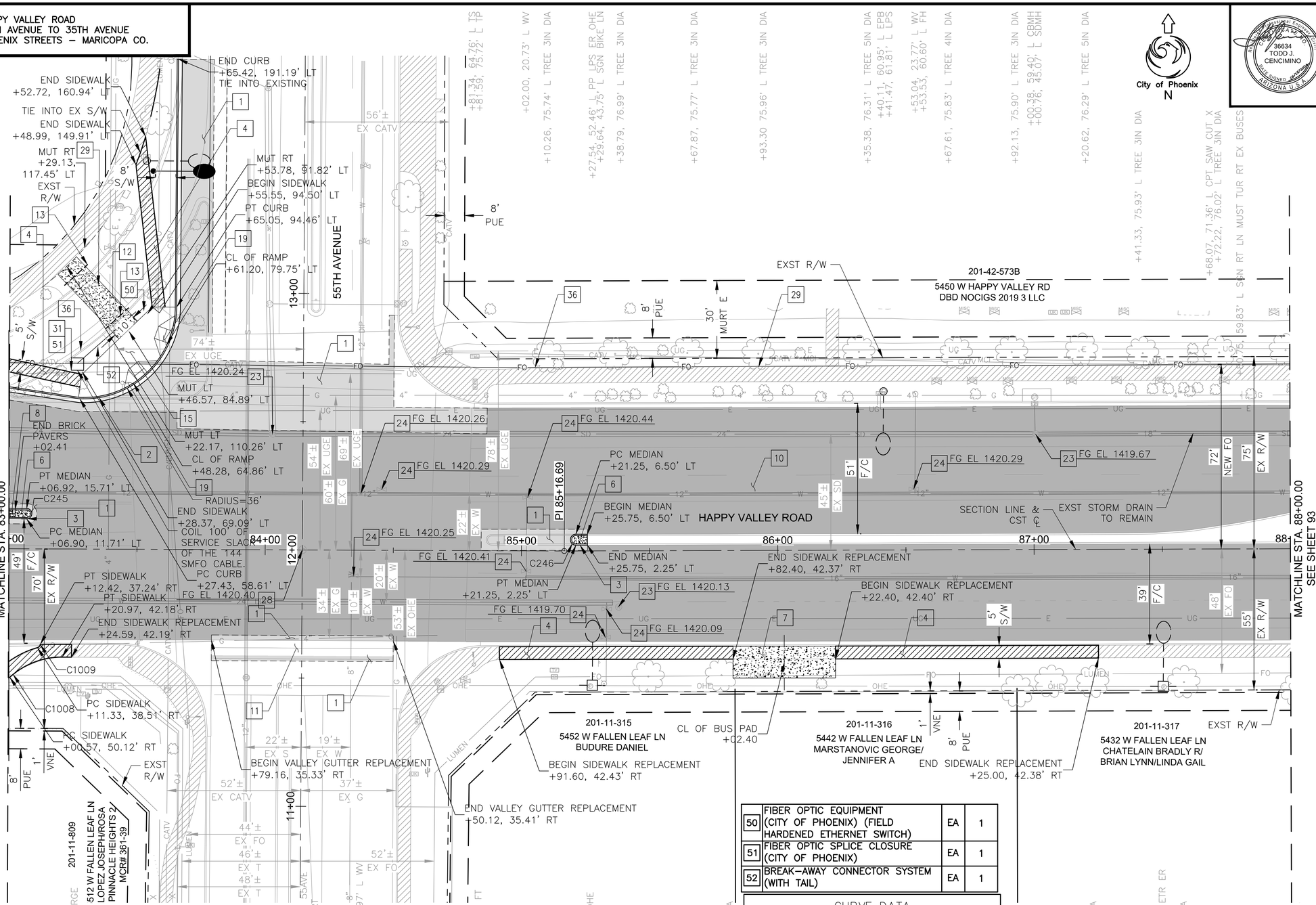
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.30
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL 4' VERTICAL			90 OF 364

SHEET NAME: ST85100437PRO15.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C245	6.283	2.000	180°00'00"
C246	6.740	2.135	180°52'52"
C1008	22.400	30.000	042°46'54"
C1009	1.776	1.500	067°49'53"

50	FIBER OPTIC EQUIPMENT (CITY OF PHOENIX) (FIELD HARDENED ETHERNET SWITCH)	EA	1
51	FIBER OPTIC SPLICE CLOSURE (CITY OF PHOENIX)	EA	1
52	BREAK–AWAY CONNECTOR SYSTEM (WITH TAIL)	EA	1

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	91	368	

06/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	581
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	48
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	160
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS–1H	TON	0.39
	AGGREGATE BASE COURSE, 4" THICK	TON	126
	LIME TREATED SUBGRADE, 6" THICK	SY	581
2	CONCRETE CURB & GUTTER MAG STD DET 220, TYPE A, H=6"	LF	183
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	20
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	1545
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	36
7	BUS SHELTER/ACCESSORY PAD COP STD DET P1260	SF	497
8	DECORATIVE BRICK PAVERS, MAG STD DET. 225	SF	7
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	379
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS–1H	TON	1.57
11	CONCRETE VALLEY GUTTER/APRON MAG STD DET 240	SF	438
12	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	353
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	24
15	CONCRETE CURB RAMP, COP STD DET P1236	SF	636
19	TRUNCATED DOMES, COP STD DET P1232	SF	20
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	3
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391–1	EA	8
28	ADJUST SURVEY MONUMENT HH FRAME & COVER, STD DET P1270	EA	1
29	ELECTRICAL CONDUIT (2–1.25") (PVC)	LF	550
31	PULLBOX (NO. 9) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	650

NOTES:
1. SEE BUS SHELTER PAD DETAIL ON SHEET 167 FOR MORE INFORMATION.
2. SEE PEDESTRIAN RAMP DETAIL ON SHEET 153 FOR MORE INFORMATION.

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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ARIZONA811
Call 811 or click Arizona811.com

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

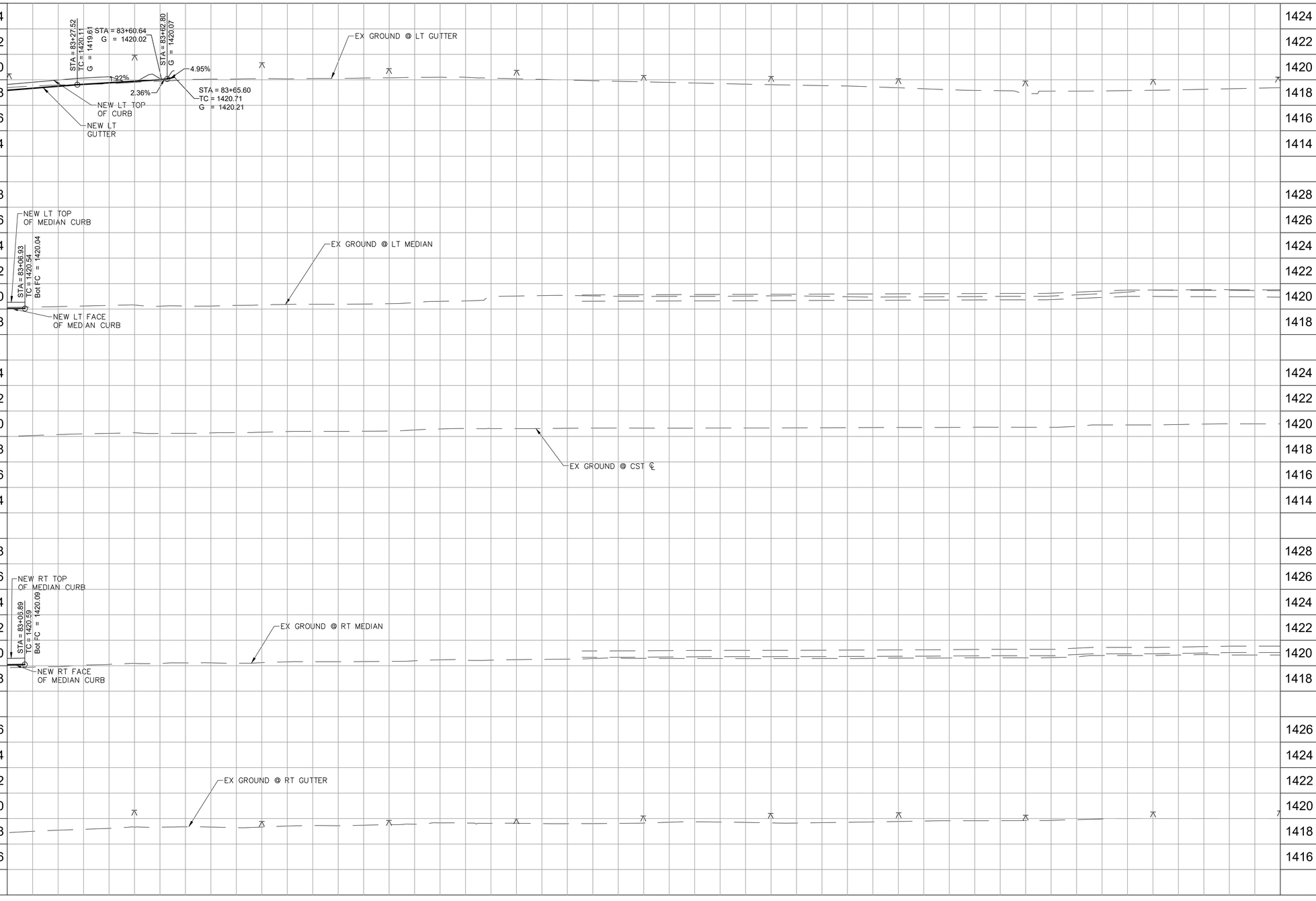
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–2.31
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			91 OF 364

SHEET NAME: ST85100437PL16.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

STATE OF ARIZONA REGISTERED PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
DATE SIGNED
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	92	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

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ROADWAY PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

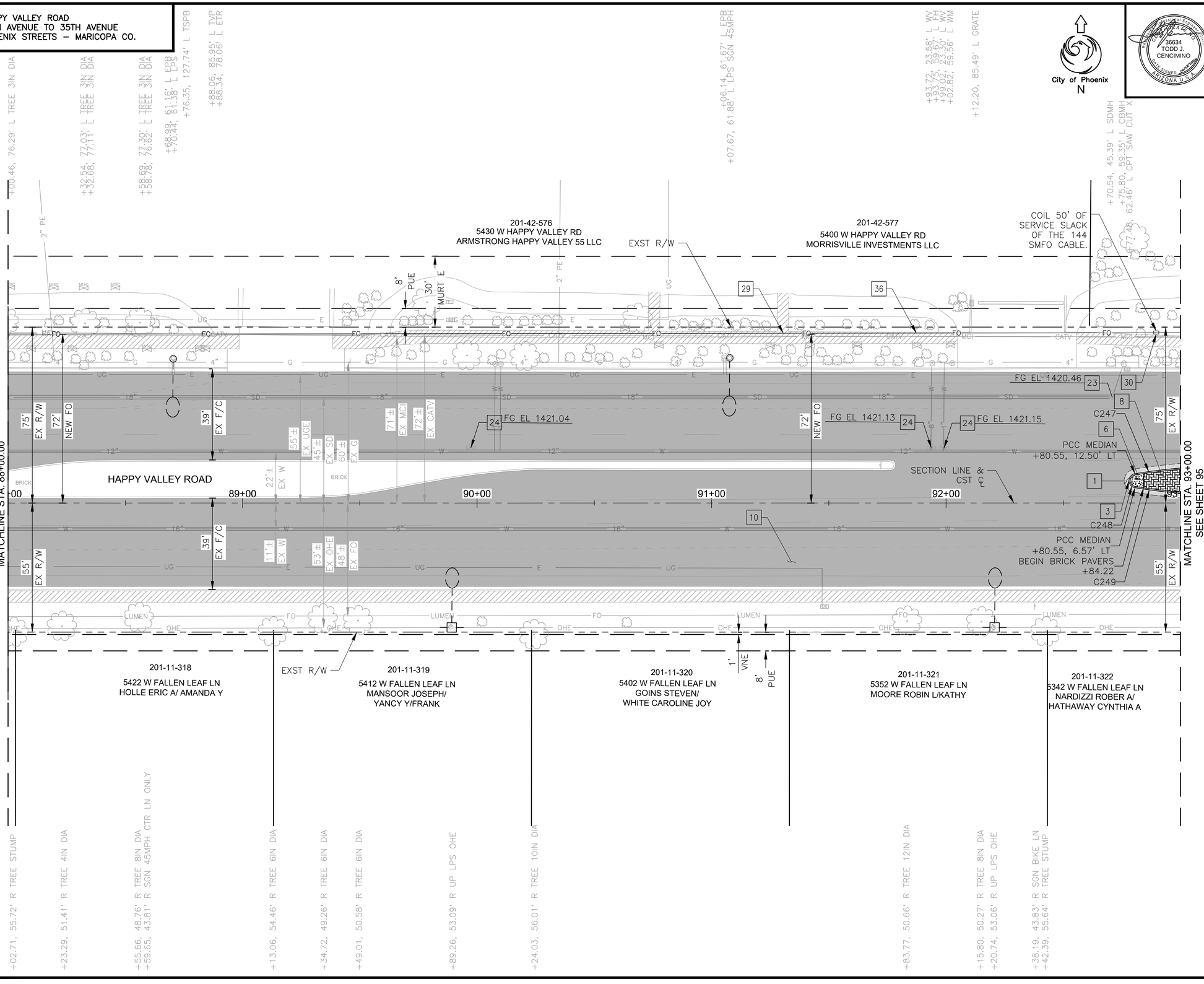
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.32
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			92 OF 364

SHEET NAME: ST85100437PRO16.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	93	368	

06/2024 DATE:

36634 TODD J. CENCIMINO REGISTERED LANDSCAPE ARCHITECT ARIZONA U.S.A.

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	11
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	1
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	3
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.01
	AGGREGATE BASE COURSE, 4" THICK	TON	2
	LIME TREATED SUBGRADE, 6" THICK	SY	11
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	48
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	28
8	DECORATIVE BRICK PAVERS, MAG STD DET. 225	SF	127
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	384
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.55
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	1
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	3
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	600

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C247	43.193	253.250	009°46'19"
C248	8.494	3.000	162°13'14"
C249	43.185	253.269	009°46'10"

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55THAVENUE
ELEV: 1419.94' (C.O.P. DATUM)

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ARIZONA811 Call 811 or click Arizona811.com

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.33
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			93 OF 364

SHEET NAME: ST85100437PL17.DWG, PLOT DATE: 6/18/2024

REVISION BY CITY OF PHOENIX

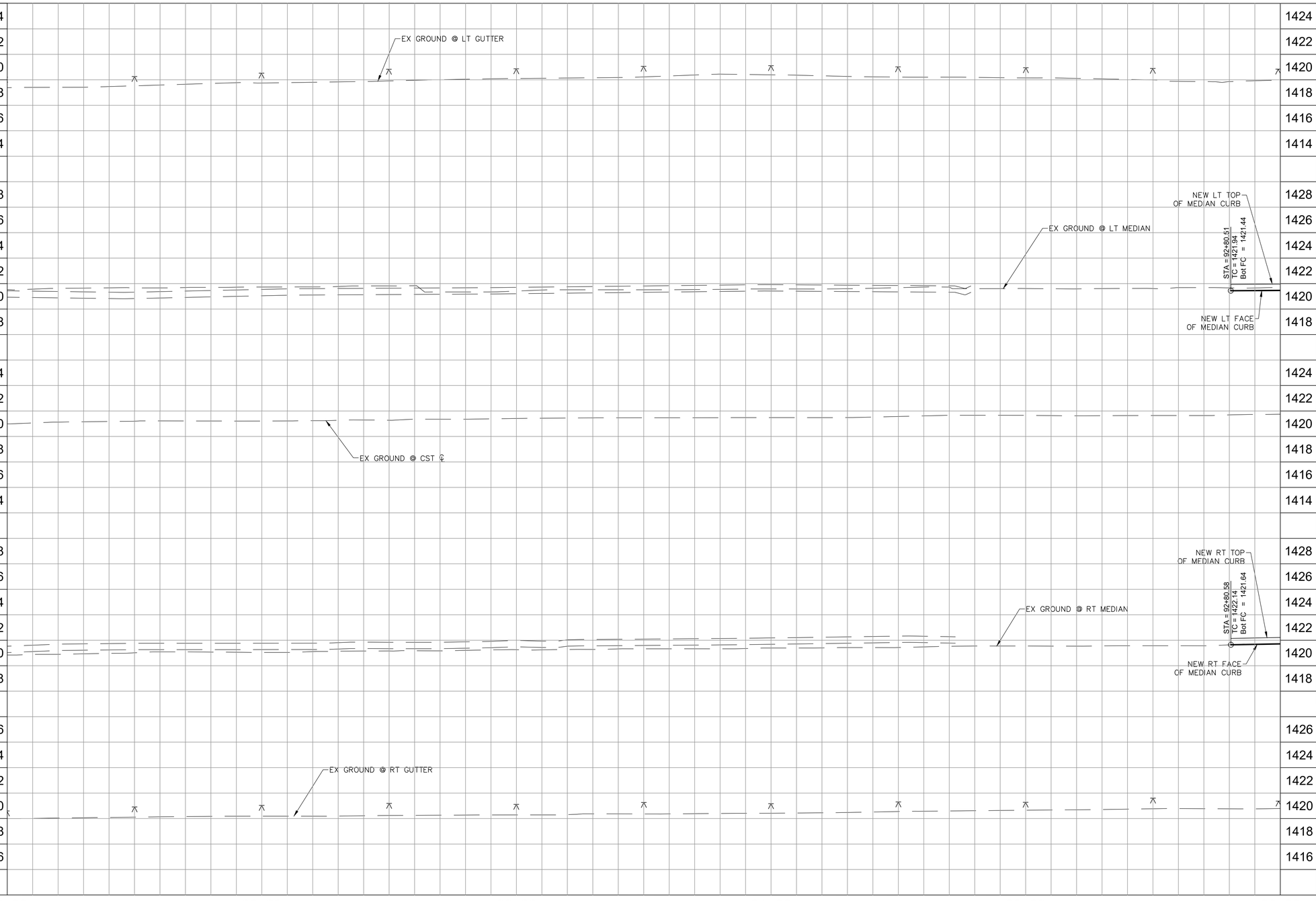
NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	94	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CERTIFICATE NO. 36634 TODD J. CENCIMINO REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

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ARIZONA811 Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PROFILE

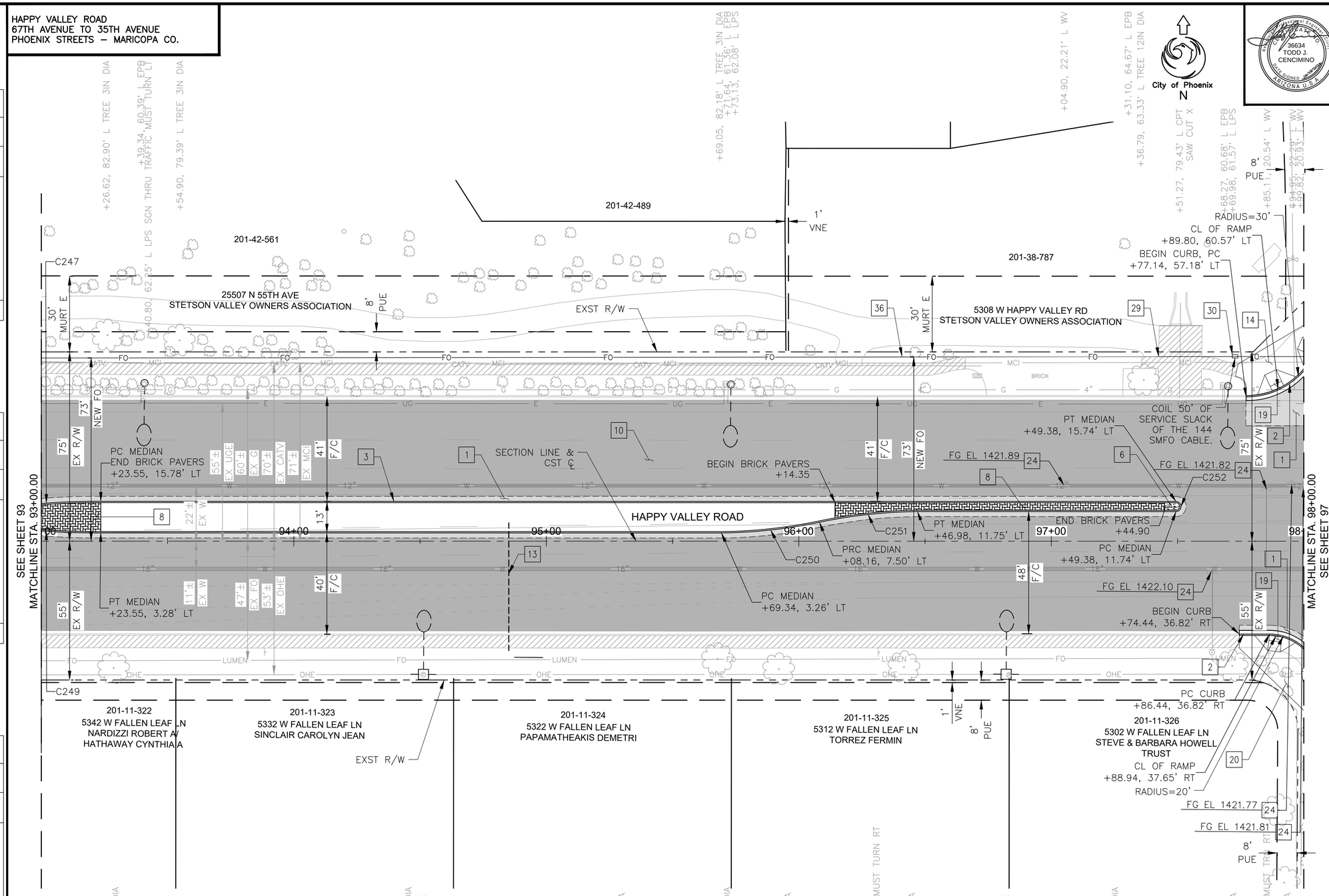
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.34
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			94 OF 364

SHEET NAME: ST85100437PRO17.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	95	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	241
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	20
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	66
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.16
	AGGREGATE BASE COURSE, 4" THICK	TON	52
	LIME TREATED SUBGRADE, 6" THICK	SY	241
2	CONCRETE CURB & GUTTER, MAG STD DET 220, TYPE A, H=6"	LF	53
3	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE A	LF	906
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	17
8	DECORATIVE BRICK PAVERS, MAG STD DET. 225	SF	686
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	360
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.45
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	51
14	CONCRETE SIDEWALK RAMP, COP STD DET P1235	SF	435
19	TRUNCATED DOMES, COP STD DET P1232	SF	20
20	CONCRETE SIDEWALK RAMP, COP STD DET P1238-2	SF	421
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	5
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	600

NOTES:
1. SEE PEDESTRIAN RAMP DETAIL ON SHEET 154 FOR MORE INFORMATION.

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C247	43.193	253.250	009°46'19"
C249	43.185	253.269	009°46'10"
C250	39.113	200.000	011°12'18"
C251	39.113	200.000	011°12'18"
C252	6.283	2.000	180°00'00"

▲ C.O.P. BM 1481: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 51ST AVENUE ELEV: 1420.08' (C.O.P. DATUM)

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ARIZONA811 Call 811 or click Arizona811.com

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.35
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			95 OF 364

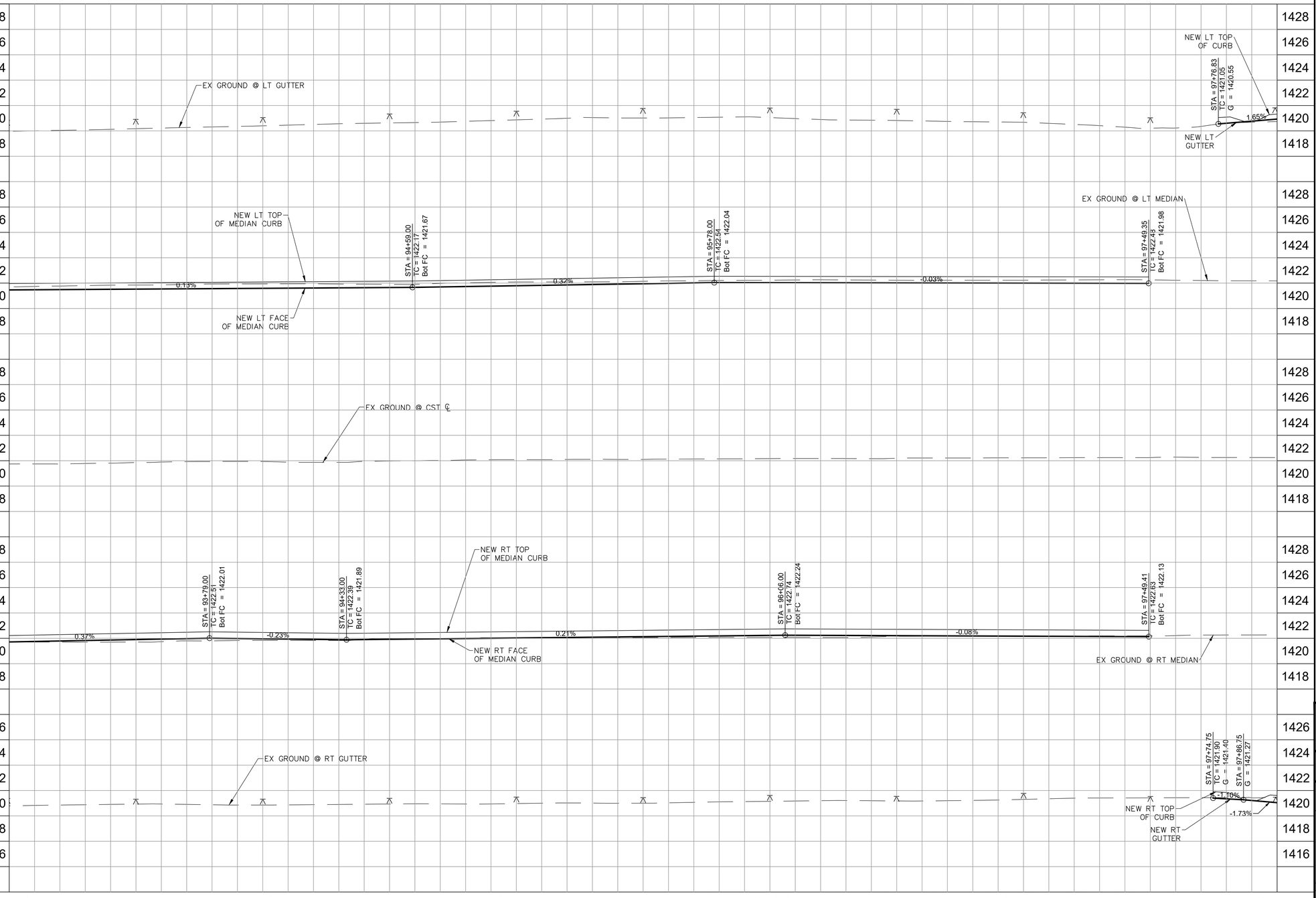
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437PL18.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

36634
TODD J.
CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	96	368	

05/2024
DATE:

WILSON & COMPANY 50 W. Liberty Street, Suite 800 Reno, Nevada 89501

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PROFILE

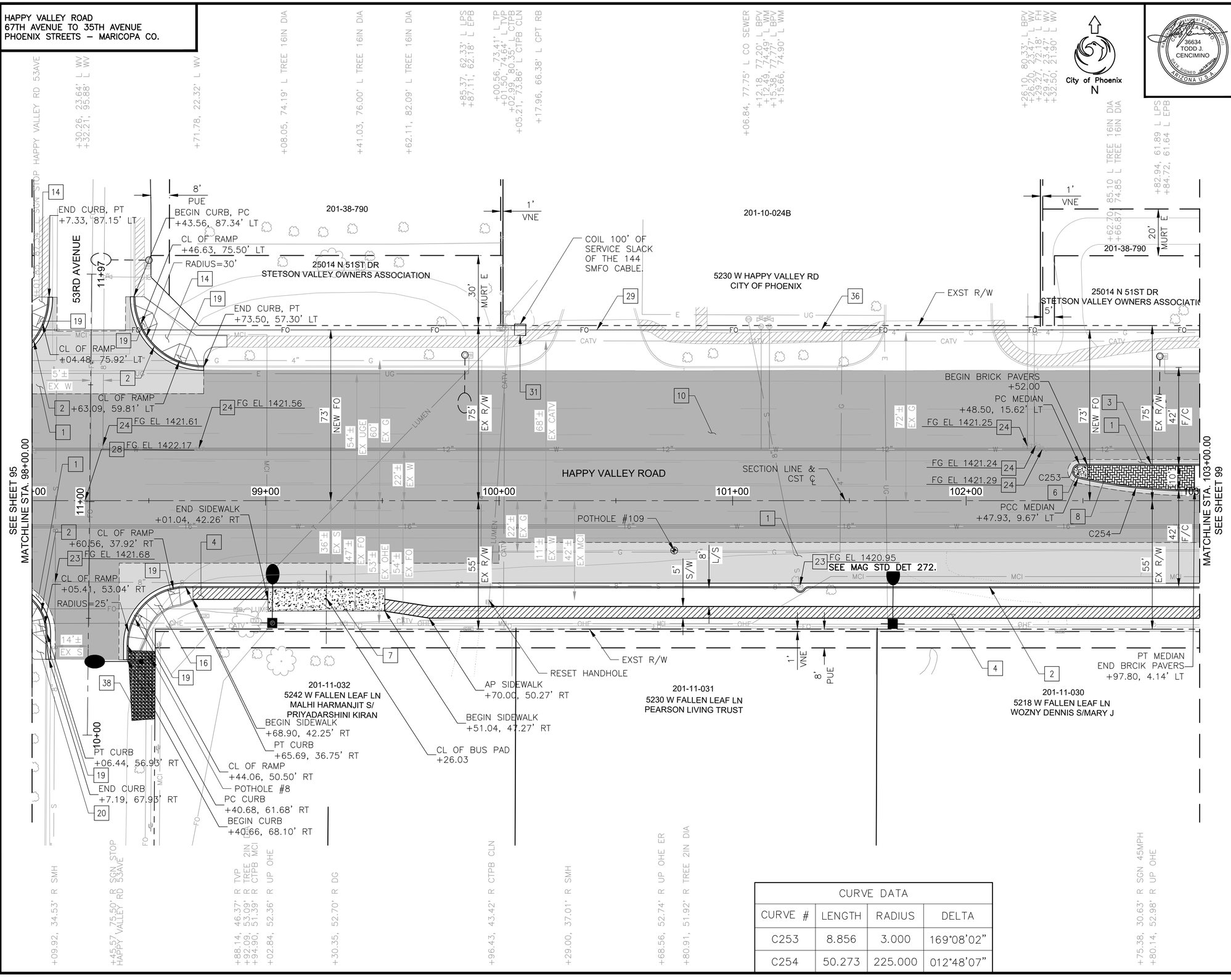
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.36
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			96 OF 364

SHEET NAME: ST85100437PRO18.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C253	8.856	3.000	169°08'02"
C254	50.273	225.000	012°48'07"

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	97	368	

06/2024 DATE:

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — REGISTERED LAND SURVEYOR — ARIZONA U.S.A.

City of Phoenix

WILSON & COMPANY

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	981
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	81
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	270
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.65
	AGGREGATE BASE COURSE, 4" THICK	TON	213
	LIME TREATED SUBGRADE, 6" THICK	SY	981
2	CONCRETE CURB & GUTTER, MAG STD DET 220-1, TYPE A, H=6"	LF	576
3	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE A	LF	113
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	1907
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	29
7	BUS SHELTER/ACCESSORY PAD COP STD DET P1260	SF	500
8	INTERLOCKING CONCRETE PAVERS MAG STD DET. 225	SF	409
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	353
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.42
14	CONCRETE CURB RAMP, COP STD DET P1235	SF	588
16	CONCRETE CURB RAMP, COP STD DET P1237	SF	280
19	TRUNCATED DOMES, COP STD DET P1232	SF	60
20	CONCRETE CURB RAMP, COP STD DET P1238-2	SF	123
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	2
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	5
28	ADJUST SURVEY MONUMENT HH FRAME & COVER, STD DET P1270	EA	1
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
31	PULLBOX (NO. 9) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	650
38	GRAVEL MULCH, 4" THICK	SY	20

NOTES:
1. SEE BUS SHELTER PAD DETAIL ON SHEET 167 FOR MORE INFORMATION.
2. SEE PEDESTRIAN RAMP DETAIL ON SHEET 154 FOR MORE INFORMATION.
3. SEE REMOVAL PLAN ON SHEET 36 FOR MORE INFORMATION ON POTHOLES.

▲ C.O.P. BM 1481: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 51ST AVENUE ELEV: 1420.08' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.37
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			97 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

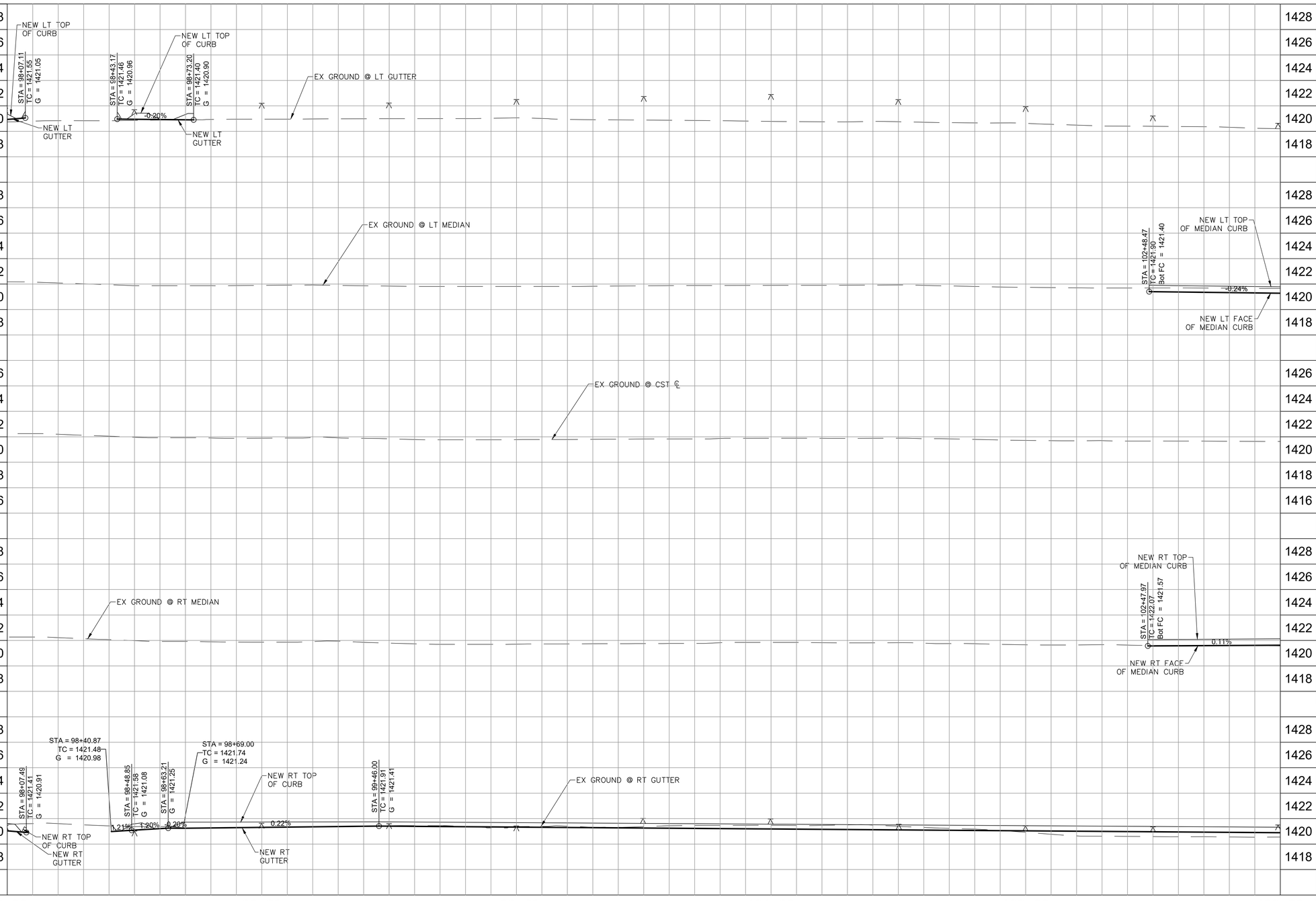
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437PL19.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REGISTERED PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
CERTIFICATE NOT VALID UNLESS SIGNED AND DATED
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	98	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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ROADWAY PROFILE

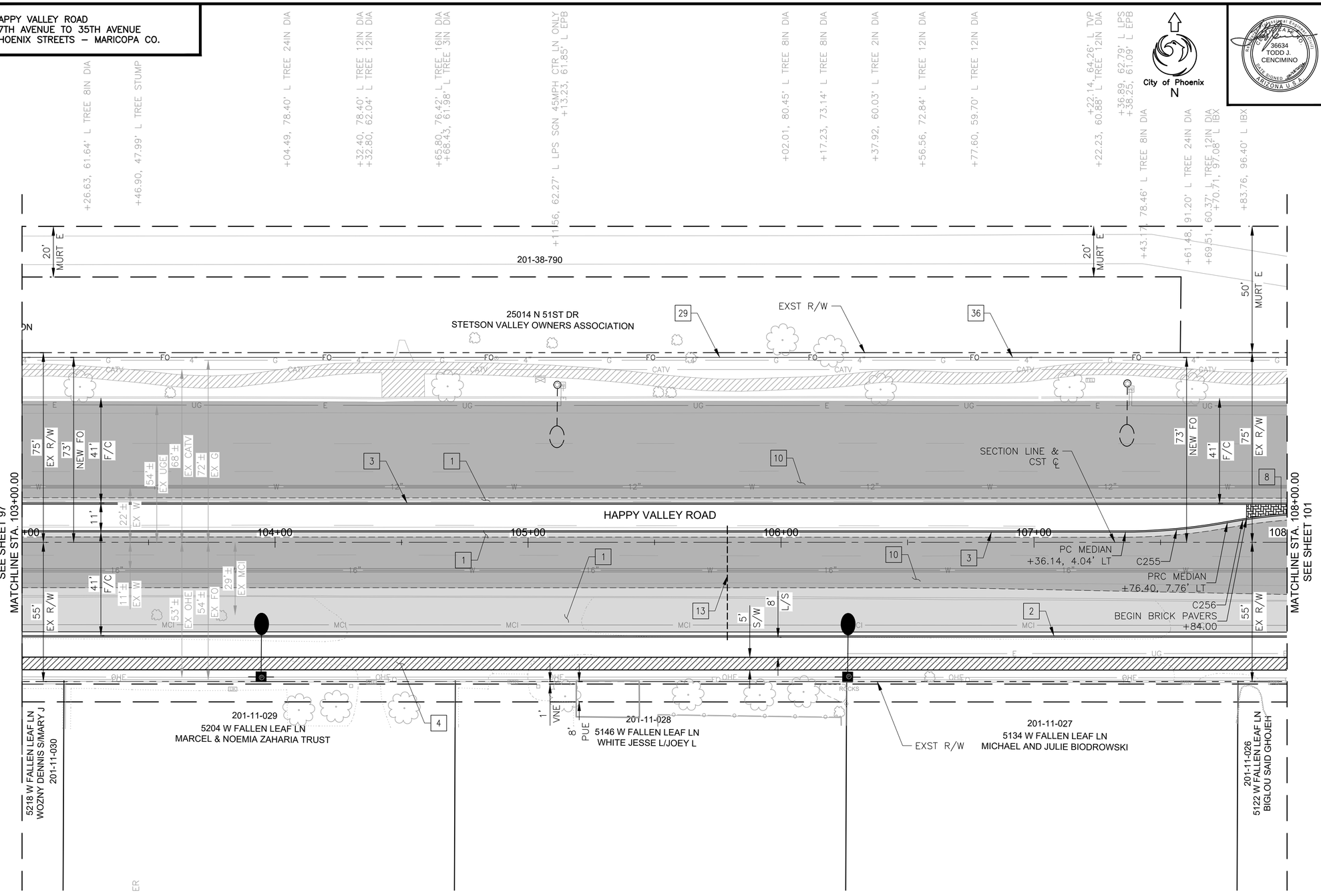
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.38
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			98 OF 364

SHEET NAME: ST85100437PRO19.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	99	368	

06/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	1174
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	97
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	324
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.78
	AGGREGATE BASE COURSE, 4" THICK	TON	255
	LIME TREATED SUBGRADE, 6" THICK	SY	1174
2	CONCRETE CURB & GUTTER, MAG STD DET 220-1, TYPE A, H=6"	LF	500
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	1001
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	2500
8	DECORATIVE BRICK PAVERS, MAG STD DET. 225	SF	71
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	271
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.09
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	45
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	550

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C255	40.488	225.000	010°18'37"
C256	40.488	225.000	010°18'37"

▲ C.O.P. BM 1481: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 51ST AVENUE ELEV: 1420.08' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

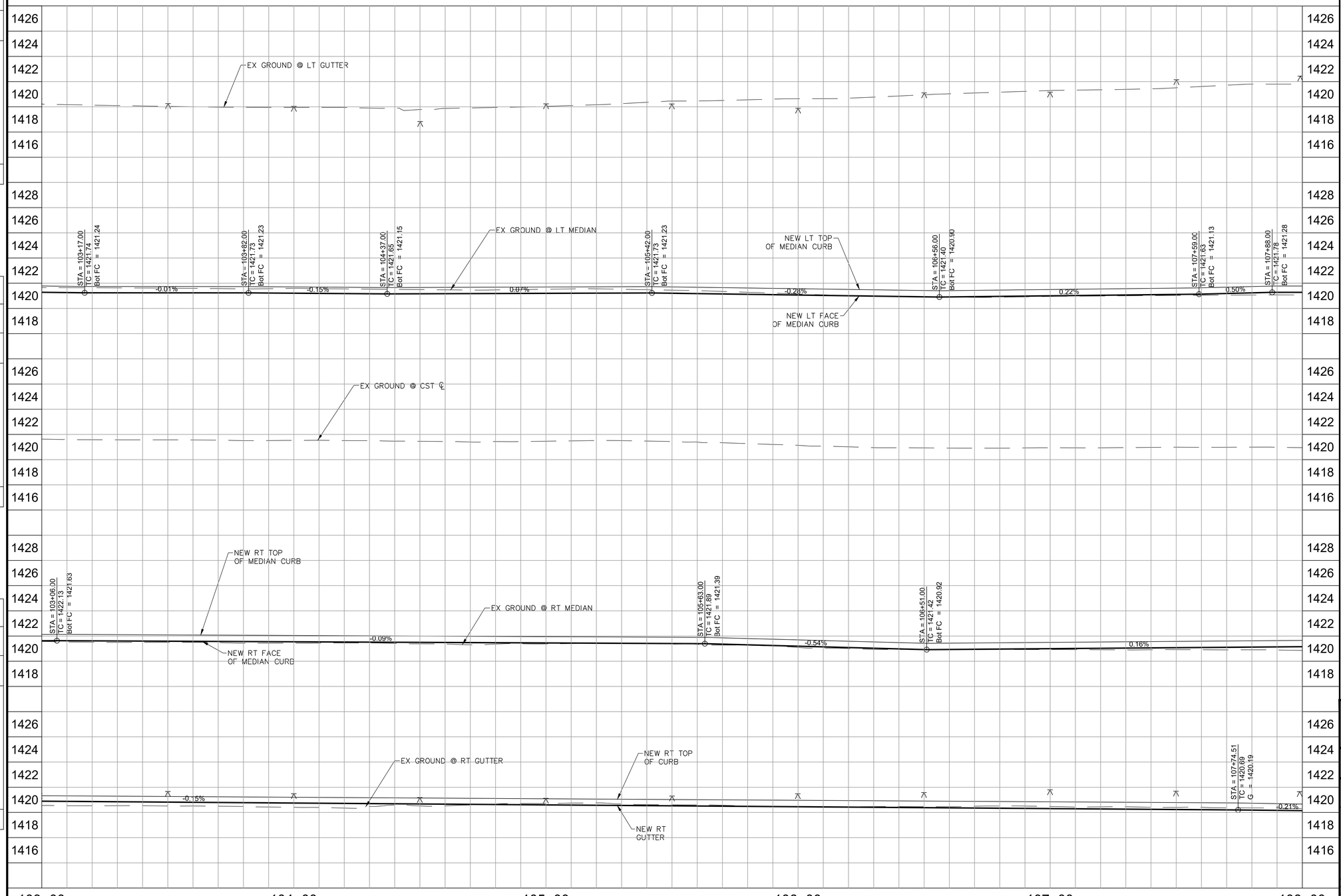
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.39
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			99 OF 364

SHEET NAME: ST85100437PL20.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REGISTERED PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
CERTIFICATE NO.
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	100	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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Call 811 or click Arizona811.com

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ROADWAY PROFILE

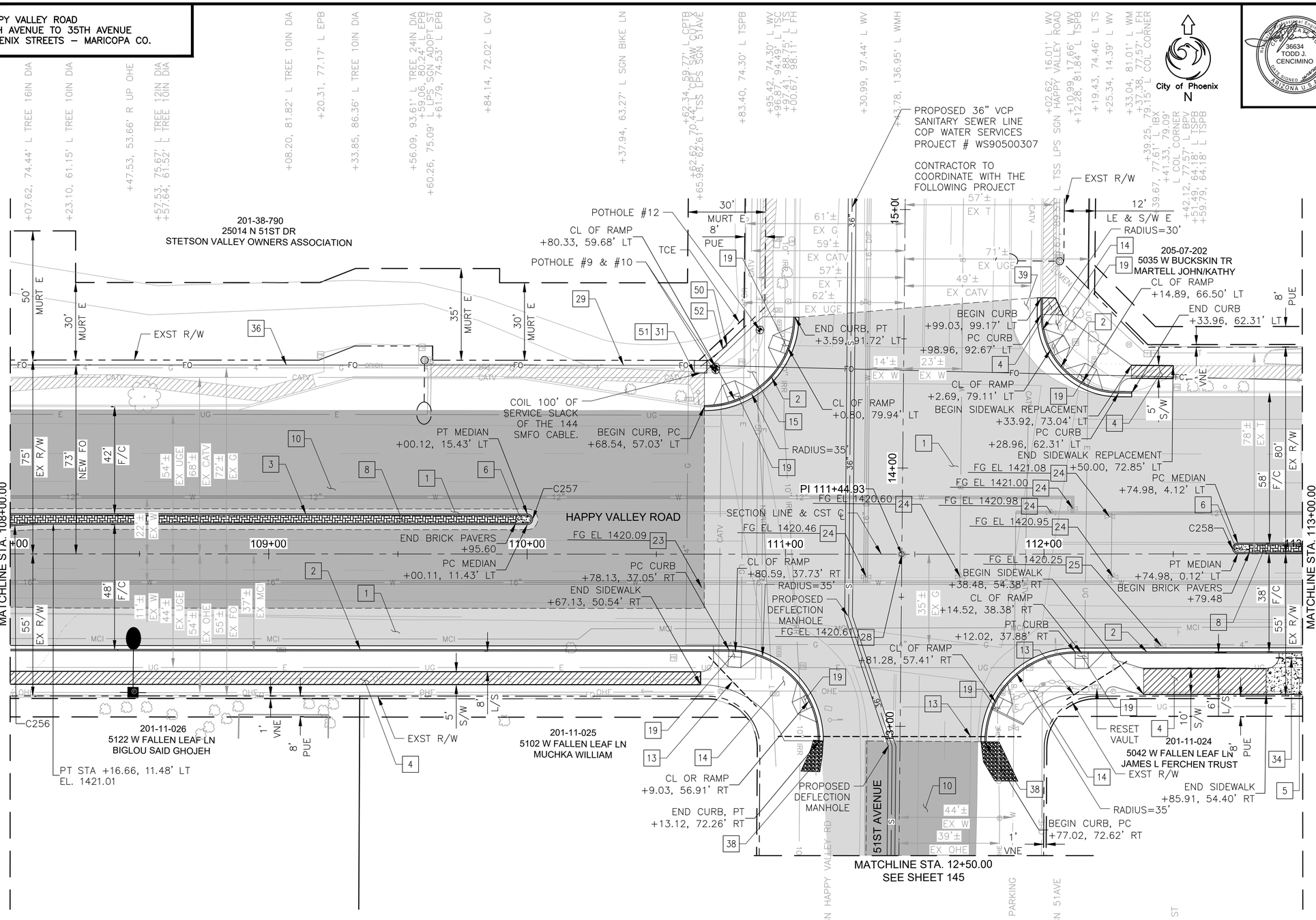
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.40
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			100 OF 364

SHEET NAME: ST85100437PRO20.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C256	40.488	225.000	010°18'37"
C257	6.283	2.000	180°00'00"
C258	6.283	2.000	180°00'00"

50	FIBER OPTIC EQUIPMENT (CITY OF PHOENIX) (FIELD HARDENED ETHERNET SWITCH)	EA	1
51	FIBER OPTIC SPLICE CLOSURE (CITY OF PHOENIX)	EA	1
52	BREAK-AWAY CONNECTOR SYSTEM (WITH TAIL)	EA	1

+04.94, 36.99' R CTPB MCI
+25.38, 52.73' R WMH
+44.67, 52.77' R DG
+56.69, 40.14' R TSPB
+67.58, 12.97' R WMH
+73.87, 52.89' R UP OHE ER
+97.23, 37.69' R TS
+06.66, 43.21' R TSPB
+16.83, 64.46' R TSS LPS SGN HAPPY VALLEY RD
+31.02, 8.78' R WV
+67.40, 8.90' R WV
+80.09, 67.45' R DG
+82.56, 77.57' R DG
+88.55, 62.98' R WV SGN NO PARKING
+91.46, 43.77' R TSPB
+04.66, 43.77' R TSS LPS SGN 51AVE
+20.15, 51.35' R CTPB COX
+26.43, 9.03' R WV
+28.33, 46.84' R UP OHE ER CPT RB
+45.50, 35.61' R GV
+51.44, 30.30' R SGN ADOPT ST
+53.29, 53.14' R DG
+61.85, 52.99' R DG

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	101	368	

06/2024 DATE:

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

WILSON & COMPANY

36634 TODD J. CENCIMINO — REGISTERED LAND SURVEYOR — ARIZONA U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	3646
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	301
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1005
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	2.43
	AGGREGATE BASE COURSE, 4" THICK	TON	793
	LIME TREATED SUBGRADE, 6" THICK	SY	3646
2	CONCRETE CURB & GUTTER MAG STD DET 220, TYPE A, H=6"	LF	590
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	463
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	1933
5	BUS SHELTER/ACCESSORY PAD COP STD DET P1262	SF	200
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	34
8	DECORATIVE BRICK PAVERS MAG STD DET. 225	SF	653
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	192
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.77
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	148
14	CONCRETE CURB RAMP, COP STD DET P1235	SF	2183
15	CONCRETE CURB RAMP, COP STD DET P1236	SF	687
19	TRUNCATED DOMES COP STD DET P1232	SF	80
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	1
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	6
25	ADJUST EX UTILITY VALVE, MAG STD DET 391-1 & 391-2	EA	1
28	ADJUST SURVEY MONUMENT HH FRAME & COVER, STD DET P1270	EA	1
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
31	PULLBOX (NO. 9) (CITY OF PHOENIX)	EA	1
34	6" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	10
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	650
38	GRAVEL MULCH, 4" THICK	SY	23
39	CONCRETE BUS BAY PAVEMENT COP STD DET P1256-1	SF	290

NOTES:
1. SEE BUS SHELTER PAD DETAIL ON SHEET 168 FOR MORE INFORMATION.
2. SEE PEDESTRIAN RAMP DETAIL ON SHEET 155 FOR MORE INFORMATION.
3. SEE REMOVAL PLAN ON SHEET 38 FOR MORE INFORMATION ON POTHOLES.

▲ C.O.P. BM 1481: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 51ST AVENUE ELEV: 1420.08' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.41
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			101 OF 364

SHEET NAME: ST85100437PL21.DWG, PLOT DATE: 6/18/2024

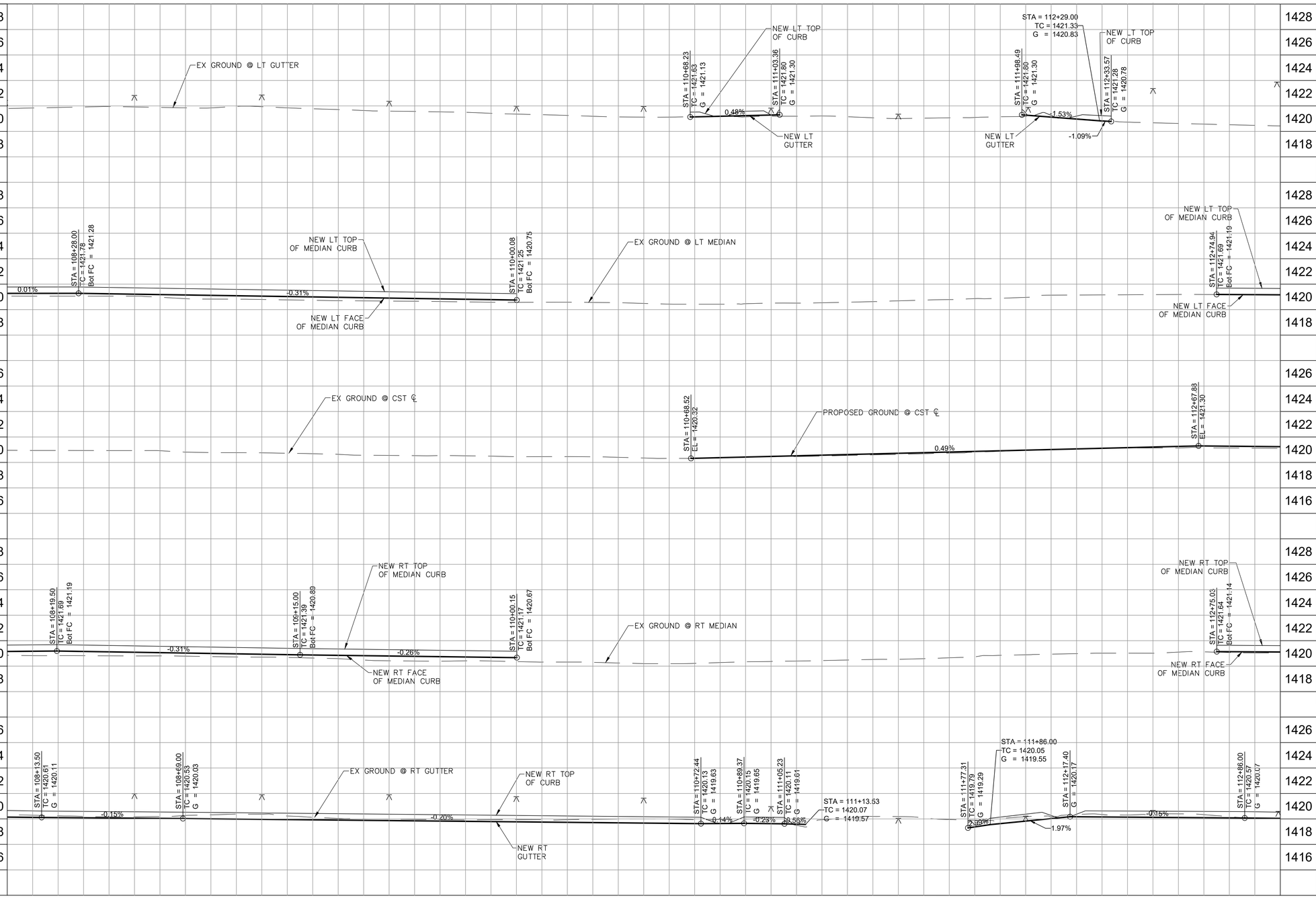
REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CKD BY | DATE

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CKD BY | DATE

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CKD BY | DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	102	368	

05/2024 DATE:

WILSON & COMPANY 2155 E. 17th Street, Tempe, Arizona 85281

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

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ARIZONA811 Call 811 or click Arizona811.com

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ROADWAY PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

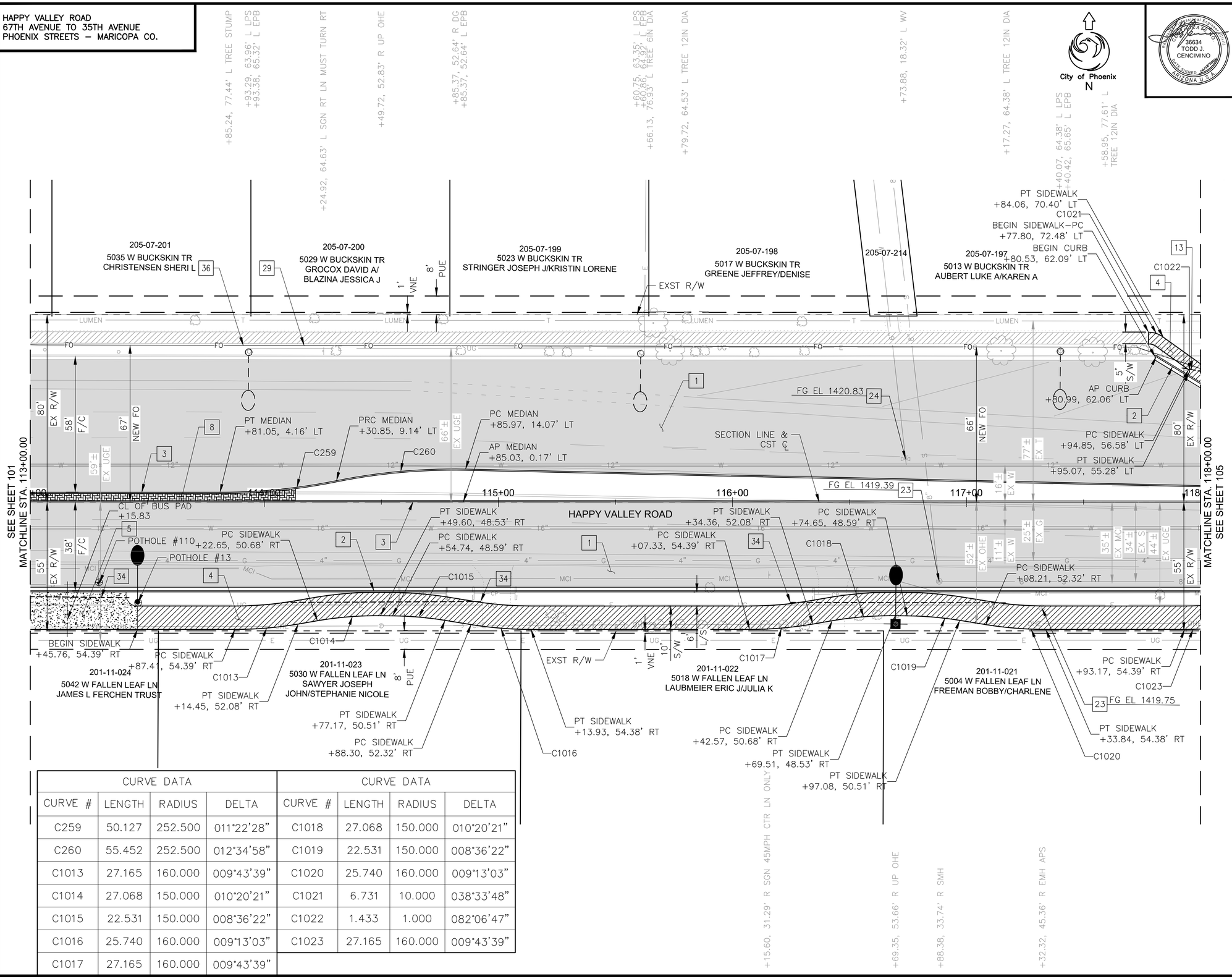
DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.42
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			102 OF 364

SHEET NAME: ST85100437PR021.DWG, PLOT DATE: 5/29/2024

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



CURVE DATA				CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA	CURVE #	LENGTH	RADIUS	DELTA
C259	50.127	252.500	011°22'28"	C1018	27.068	150.000	010°20'21"
C260	55.452	252.500	012°34'58"	C1019	22.531	150.000	008°36'22"
C1013	27.165	160.000	009°43'39"	C1020	25.740	160.000	009°13'03"
C1014	27.068	150.000	010°20'21"	C1021	6.731	10.000	038°33'48"
C1015	22.531	150.000	008°36'22"	C1022	1.433	1.000	082°06'47"
C1016	25.740	160.000	009°13'03"	C1023	27.165	160.000	009°43'39"
C1017	27.165	160.000	009°43'39"				

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	103	368	

06/2024 DATE:

36634 TODD J. CENCIMINO REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	4872
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	403
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1343
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS–1H	TON	3.25
	AGGREGATE BASE COURSE, 4" THICK	TON	1060
	LIME TREATED SUBGRADE, 6" THICK	SY	4872
2	CONCRETE CURB & GUTTER, MAG STD DET 220–1, TYPE A, H=6"	LF	523
3	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE A	LF	1001
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	4700
5	BUS SHELTER/ACCESSORY PAD COP STD DET P1262	SF	708
8	DECORATIVE BRICK PAVERS, MAG STD DET. 225	SF	364
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	9
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	2
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391–1	EA	1
29	ELECTRICAL CONDUIT (2–1.25") (PVC)	LF	552
34	6" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	219
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	552

NOTES:
1. SEE BUS SHELTER PAD DETAIL ON SHEET 168 FOR MORE INFORMATION.
2. SEE REMOVAL PLAN ON SHEET 39 FOR MORE INFORMATION ON POTHOLES.

▲ C.O.P. BM 1481: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 51ST AVENUE ELEV: 1420.08' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–2.43
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			103 OF 364

SHEET NAME: ST85100437PL22.DWG, PLOT DATE: 6/18/2024

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.

REVISION BY CITY OF PHOENIX

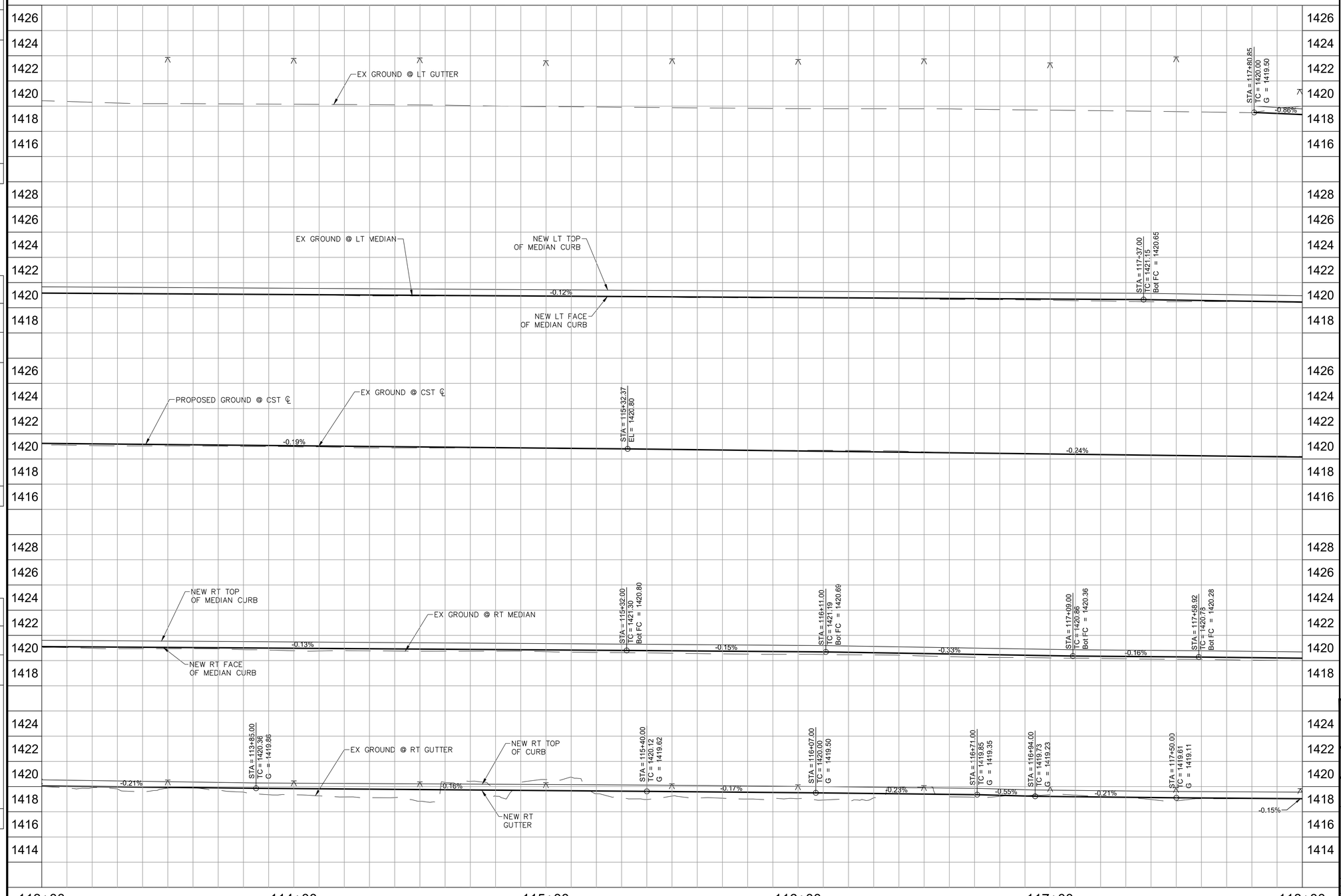
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	104	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
REGISTERED
ARIZONA U.S.A.

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ARIZONA811
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ROADWAY PROFILE

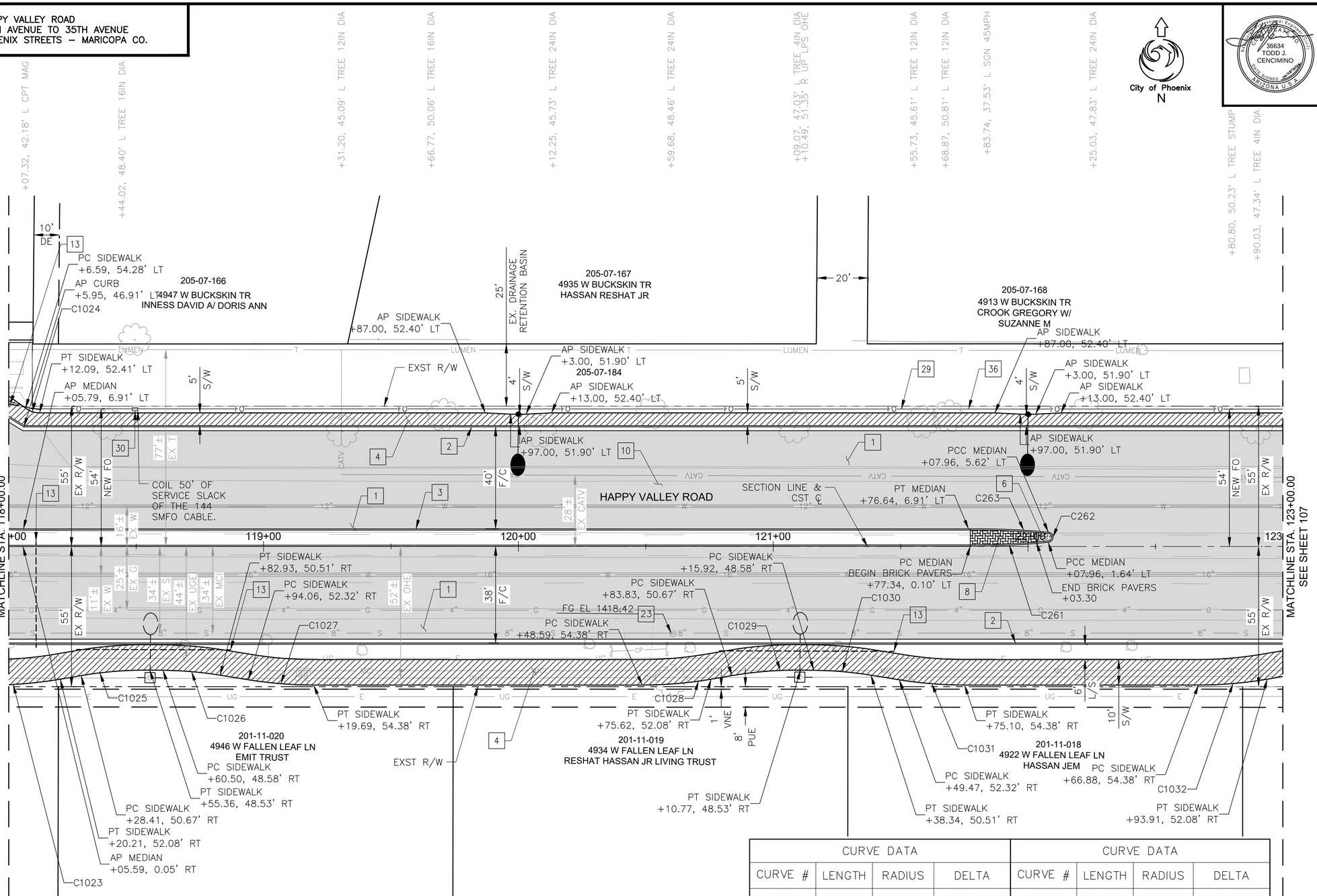
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.44
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL 4' VERTICAL			104 OF 364

SHEET NAME: ST85100437PRO22.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



City of Phoenix
N

CURVE DATA				CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA	CURVE #	LENGTH	RADIUS	DELTA
C261	30.676	300.000	005°51'31"	C1027	25.740	160.000	009°13'03"
C262	5.959	2.000	170°42'16"	C1028	27.165	160.000	009°43'39"
C263	31.361	300.000	005°59'22"	C1029	27.068	150.000	010°20'21"
C1023	27.165	160.000	009°43'39"	C1030	22.531	150.000	008°36'22"
C1024	5.914	9.000	037°39'03"	C1031	25.740	160.000	009°13'03"
C1025	27.068	150.000	010°20'21"	C1032	27.165	160.000	009°43'39"
C1026	22.531	150.000	008°36'22"				

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	105	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO REGISTERED LAND SURVEYOR ARIZONA U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	4236
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	350
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1167
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	2.82
	AGGREGATE BASE COURSE, 4" THICK	TON	921
	LIME TREATED SUBGRADE, 6" THICK	SY	4236
2	CONCRETE CURB & GUTTER, MAG STD DET 220-1, TYPE A, H=6"	LF	1001
3	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE A	LF	822
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	7515
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	19
8	DECORATIVE BRICK PAVERS MAG STD DET. 225	SF	135
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	182
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	1
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	600

▲ C.O.P. BM 1481: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 51ST AVENUE ELEV: 1420.08' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.45
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			105 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

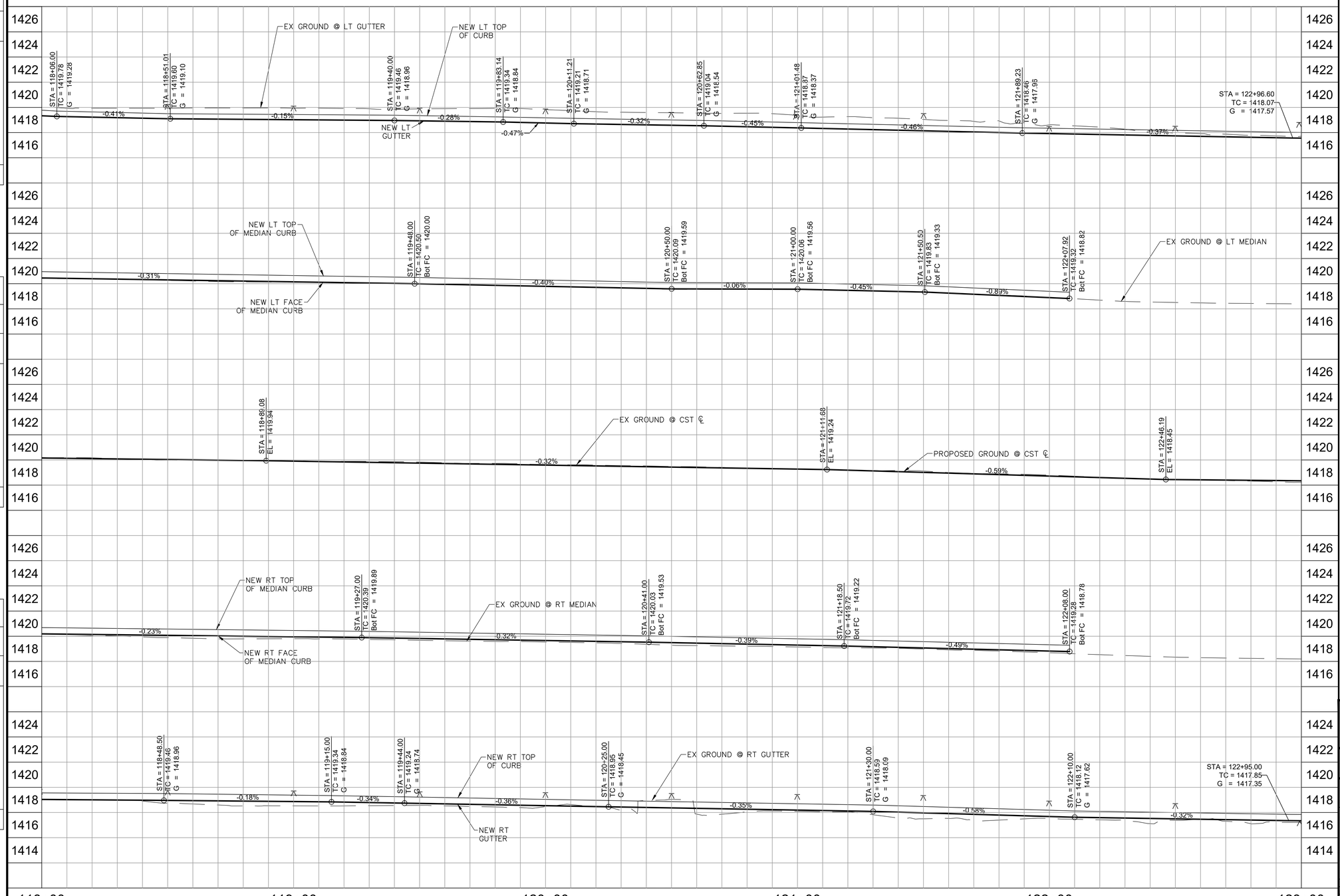
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437PL23.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

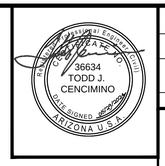
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	106	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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ROADWAY PROFILE

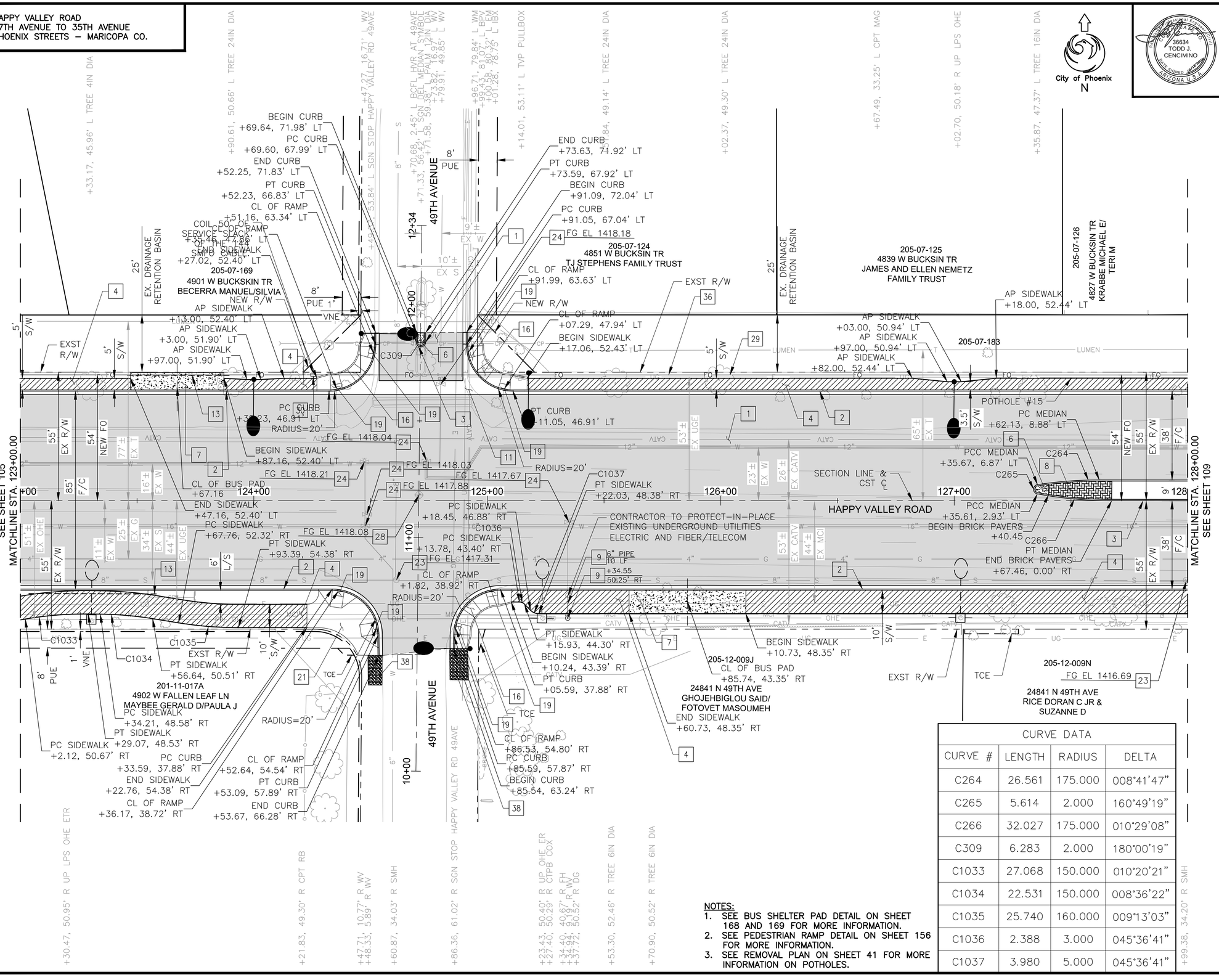
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.46
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			106 OF 364

SHEET NAME: ST85100437PRO23.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



NOTES:
1. SEE BUS SHELTER PAD DETAIL ON SHEET 168 AND 169 FOR MORE INFORMATION.
2. SEE PEDESTRIAN RAMP DETAIL ON SHEET 156 FOR MORE INFORMATION.
3. SEE REMOVAL PLAN ON SHEET 41 FOR MORE INFORMATION ON POTHOLES.

CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C264	26.561	175.000	008°41'47"
C265	5.614	2.000	160°49'19"
C266	32.027	175.000	010°29'08"
C309	6.283	2.000	180°00'19"
C1033	27.068	150.000	010°20'21"
C1034	22.531	150.000	008°36'22"
C1035	25.740	160.000	009°13'03"
C1036	2.388	3.000	045°36'41"
C1037	3.980	5.000	045°36'41"

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	107	368	

06/2024 DATE:

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A. — DATE SIGNED 06/18/24

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	4679
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	387
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1290
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS–1H	TON	3.12
	AGGREGATE BASE COURSE, 4" THICK	TON	1018
	LIME TREATED SUBGRADE, 6" THICK	SY	4679
2	CONCRETE CURB & GUTTER, MAG STD DET 220–1, TYPE A, H=6"	LF	1000
3	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE A	LF	150
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	5409
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	20
7	BUS SHELTER/ACCESSORY PAD COP STD DET P1260	SF	797
8	DECORATIVE BRICK PAVERS MAG STD DET. 225	SF	185
9	NEW FIRE HYDRANT, COP STD DET P1359, P1360, P1361, P1362	EA	1
11	CONCRETE VALLEY GUTTER/APRON MAG STD DET 240	SF	511
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	98
16	CONCRETE CURB RAMP, COP STD DET P1237	SF	694
19	TRUNCATED DOMES, COP STD DET P1232	SF	80
21	CONCRETE CURB RAMP, COP STD DET P1238–1	SF	533
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	2
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391–1	EA	6
28	ADJUST SURVEY MONUMENT HH FRAME & COVER, STD DET P1270	EA	1
29	ELECTRICAL CONDUIT (2–1.25") (PVC)	LF	550
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	600
38	GRAVEL MULCH, 4" THICK	SY	23

▲ C.O.P. BM 1507: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 47TH AVENUE ELEV: 1411.07' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–2.47
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			107 OF 364

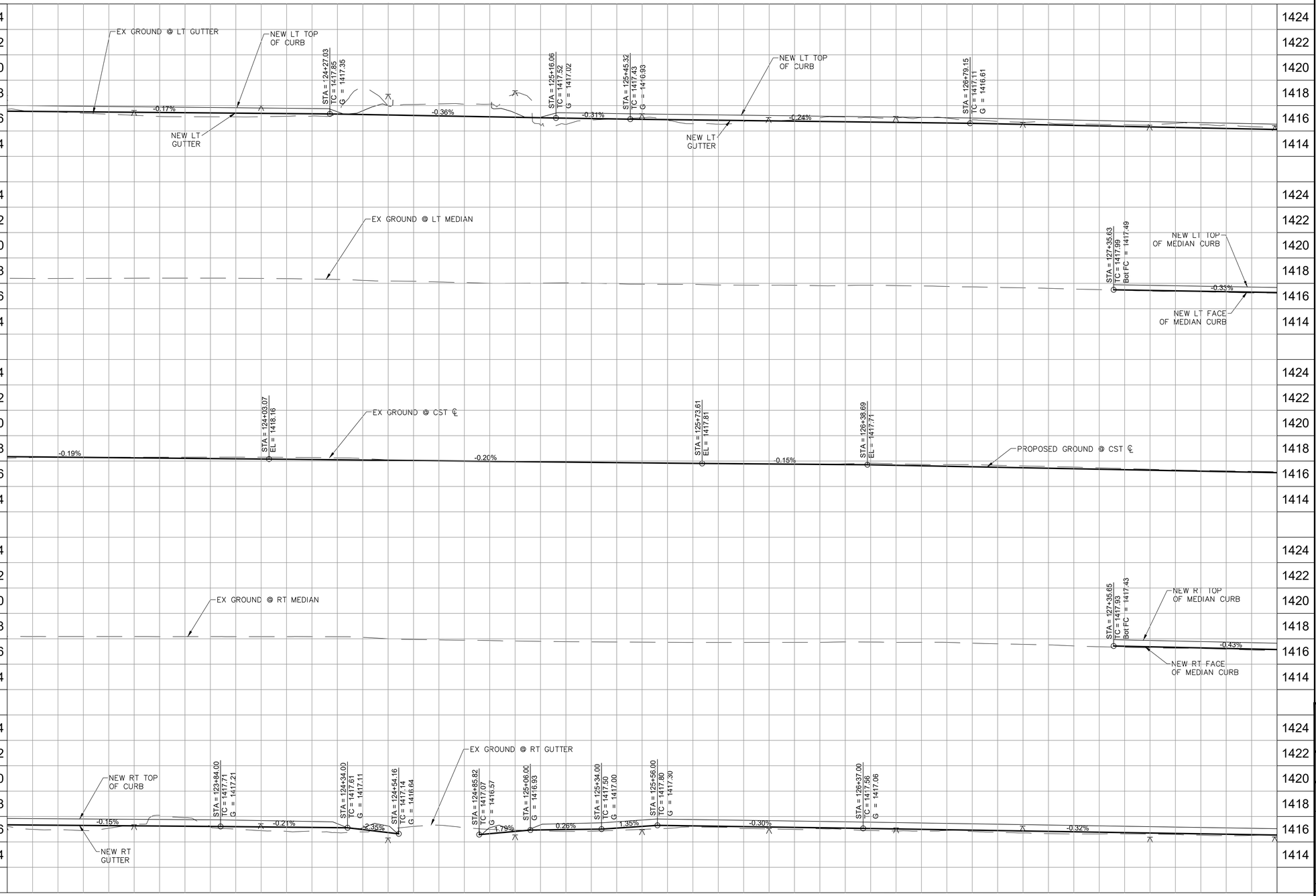
SHEET NAME: ST85100437PL24.DWG, PLOT DATE: 6/18/2024

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	108	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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ARIZONA811
Call 811 or click Arizona811.com

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ROADWAY PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

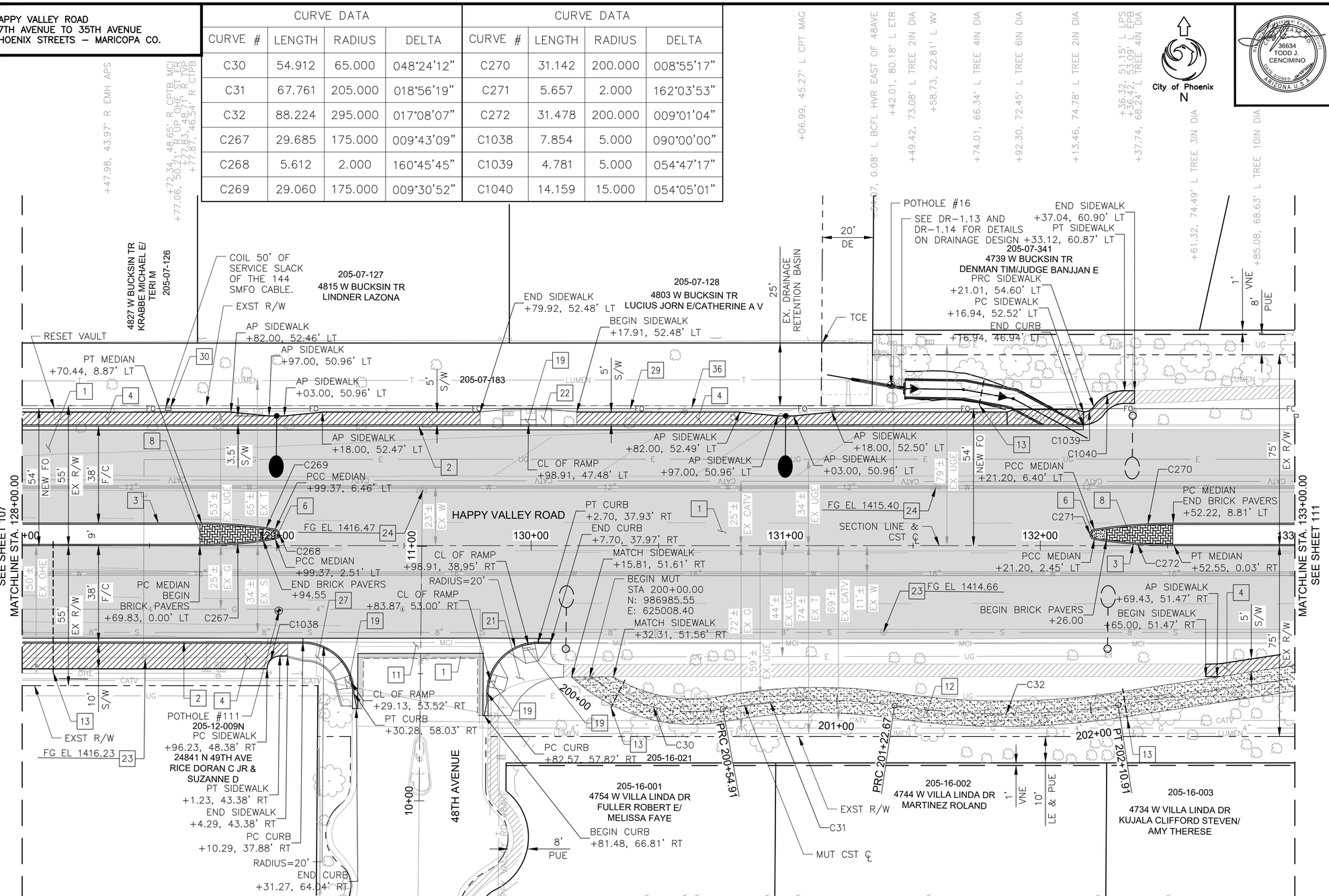
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.48
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			108 OF 364

SHEET NAME: ST85100437PRO24.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

CURVE DATA				CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA	CURVE #	LENGTH	RADIUS	DELTA
C30	54.912	65.000	048°24'12"	C270	31.142	200.000	008°55'17"
C31	67.761	205.000	018°56'19"	C271	5.657	2.000	162°03'53"
C32	88.224	295.000	017°08'07"	C272	31.478	200.000	009°01'04"
C267	29.685	175.000	009°43'09"	C1038	7.854	5.000	090°00'00"
C268	5.612	2.000	160°45'45"	C1039	4.781	5.000	054°47'17"
C269	29.060	175.000	009°30'52"	C1040	14.159	15.000	054°05'01"



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	109	368	

06/2024 DATE:

36634 TODD J. CENCIMINO REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	4413
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	365
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1216
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	2.94
	AGGREGATE BASE COURSE, 4" THICK	TON	960
	LIME TREATED SUBGRADE, 6" THICK	SY	4413
2	CONCRETE CURB & GUTTER, MAG STD DET 220-1, TYPE A, H=6"	LF	610
3	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE A	LF	369
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	3175
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	40
8	DECORATIVE BRICK PAVERS MAG STD DET. 225	SF	339
11	CONCRETE VALLEY GUTTER/APRON MAG STD DET 240	SF	595
12	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	2812
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	85
19	TRUNCATED DOMES, COP STD DET P1232	SF	40
21	CONCRETE CURB RAMP, COP STD DET P1238-1	SF	492
22	CONCRETE CURB RAMP, COP STD DET P1241-4	SF	219
23	ADJUST EX MANHOLE FRAME & COVER,MAG STD DET 422 & P1430	EA	2
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	2
27	CONCRETE CURB RAMP, COP STD DET P1240-1	SF	231
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
30	FURNISH AND INSTALL COP NO. 8 FIBER OPTIC PULLBOX	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	600

NOTES:
1. SEE PEDESTRIAN RAMP DETAIL ON SHEET 157 FOR MORE INFORMATION.
2. SEE REMOVAL PLAN ON SHEET 42 FOR MORE INFORMATION ON POTHOLES.

▲ BM 1507: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 47TH AVENUE ELEV: 1411.07' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.49
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			109 OF 364

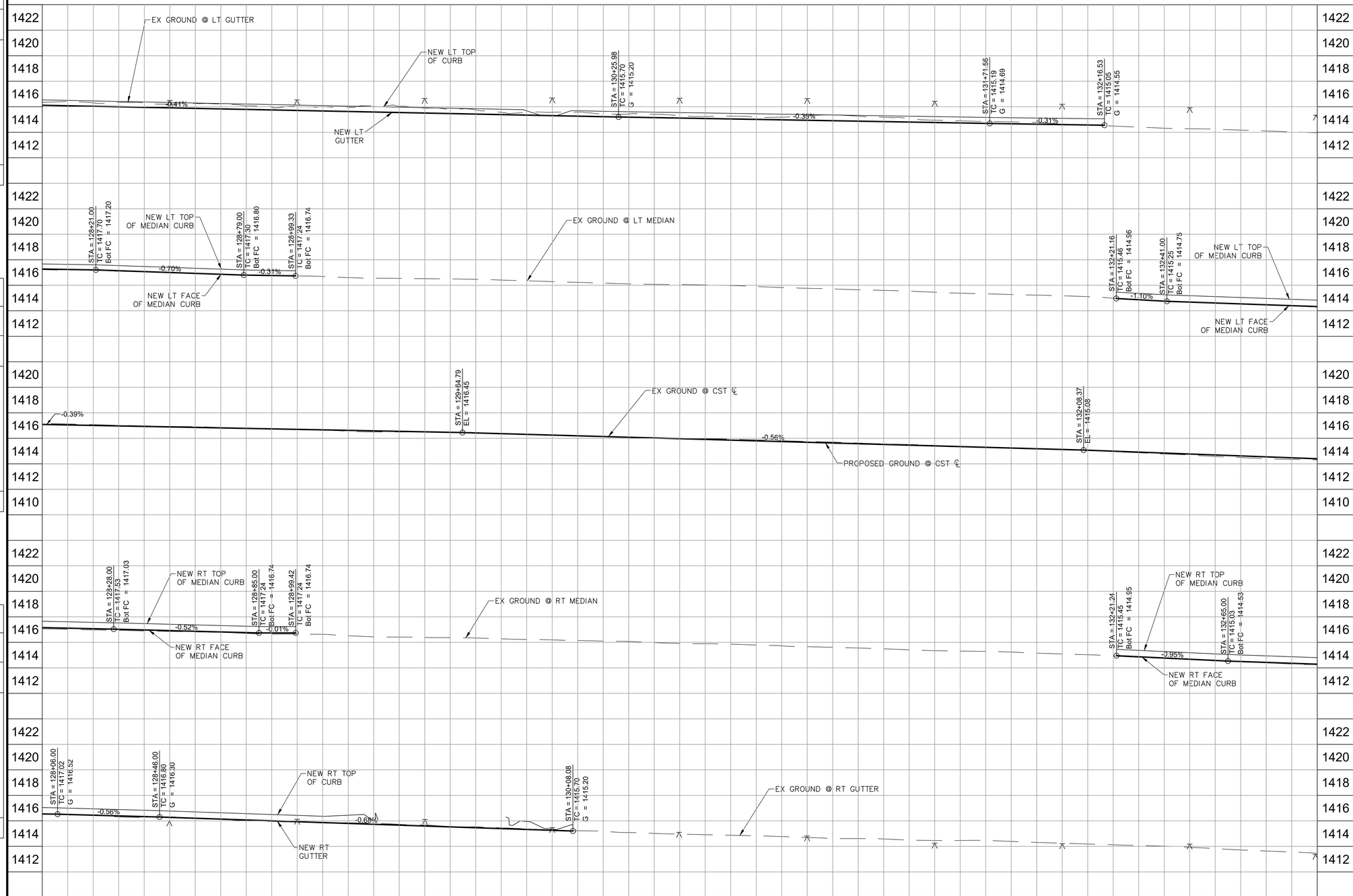
SHEET NAME: ST85100437PL25.DWG, PLOT DATE: 6/18/2024

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	110	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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ARIZONA811
Call 811 or click Arizona811.com

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ROADWAY PROFILE

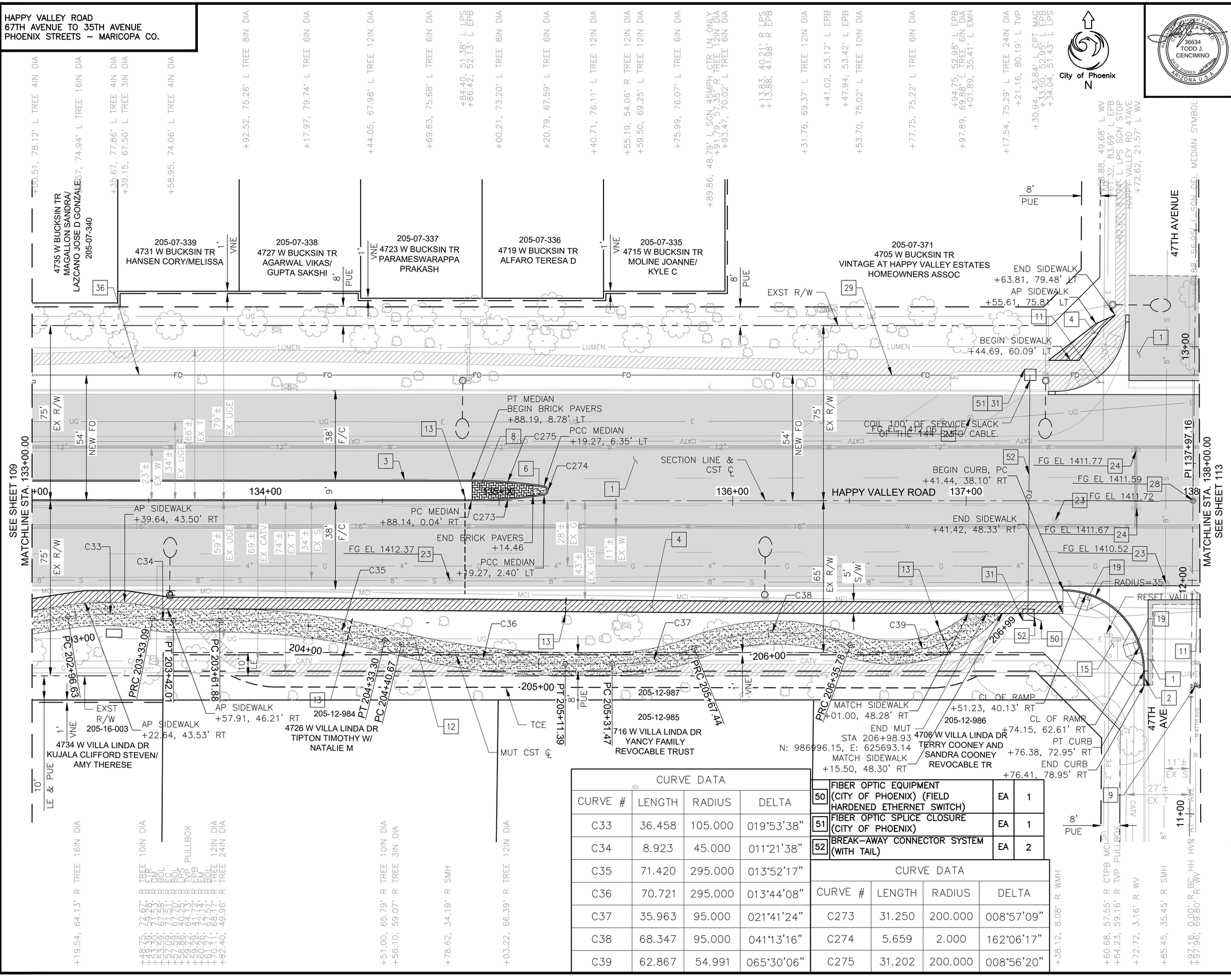
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.50
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL 1" = 4' VERTICAL			110 OF 364

SHEET NAME: ST85100437PRO25.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C33	36.458	105.000	019°53'38"
C34	8.923	45.000	011°21'38"
C35	71.420	295.000	013°52'17"
C36	70.721	295.000	013°44'08"
C37	35.963	95.000	021°41'24"
C38	68.347	95.000	041°13'16"
C39	62.867	54.991	065°30'06"

50	FIBER OPTIC EQUIPMENT (CITY OF PHOENIX) (FIELD HARDENED ETHERNET SWITCH)	EA	1
51	FIBER OPTIC SPLICE CLOSURE (CITY OF PHOENIX)	EA	1
52	BREAK–AWAY CONNECTOR SYSTEM (WITH TAIL)	EA	2

CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C273	31.250	200.000	008°57'09"
C274	5.659	2.000	162°06'17"
C275	31.202	200.000	008°56'20"

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	111	368	

06/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — REGISTERED ARIZONA U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	4607
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	381
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1270
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS–1H	TON	3.07
	AGGREGATE BASE COURSE, 4" THICK	TON	1002
	LIME TREATED SUBGRADE, 6" THICK	SY	4607
2	CONCRETE CURB & GUTTER MAG STD DET 220, TYPE A, H=6"	LF	61
3	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE A	LF	445
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	2275
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	20
8	DECORATIVE BRICK PAVERS MAG STD DET. 225	SF	173
9	RELOCATE FIRE HYDRANT, COP STD DET P1359, P1360, P1361, P1362	EA	1*
11	CONCRETE VALLEY GUTTER/APRON MAG STD DET 240	SF	960
12	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	4176
13	4" SCHEDULE 40 IRRIGATION SLEEVE	LF	73
15	CONCRETE CURB RAMP, COP STD DET P1236	SF	614
19	TRUNCATED DOME, COP STD DET P1232	SF	20
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	4
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391–1	EA	2
28	ADJUST SURVEY MONUMENT HH FRAME & COVER, STD DET P1270	EA	1
29	ELECTRICAL CONDUIT (2–1.25") (PVC)	LF	550
31	PULLBOX (NO. 9) (CITY OF PHOENIX)	EA	2
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	650

NOTES:
1. SEE PEDESTRIAN RAMP DETAIL ON SHEET 158 FOR MORE INFORMATION.
* A PORTION OF THE WORK ASSOCIATED WITH THIS FIRE HYDRANT RELOCATION OCCURS ON SHEET P–2.53.

▲ BM 1507: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 47TH AVENUE ELEV: 1411.07' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–2.51
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			111 OF 364

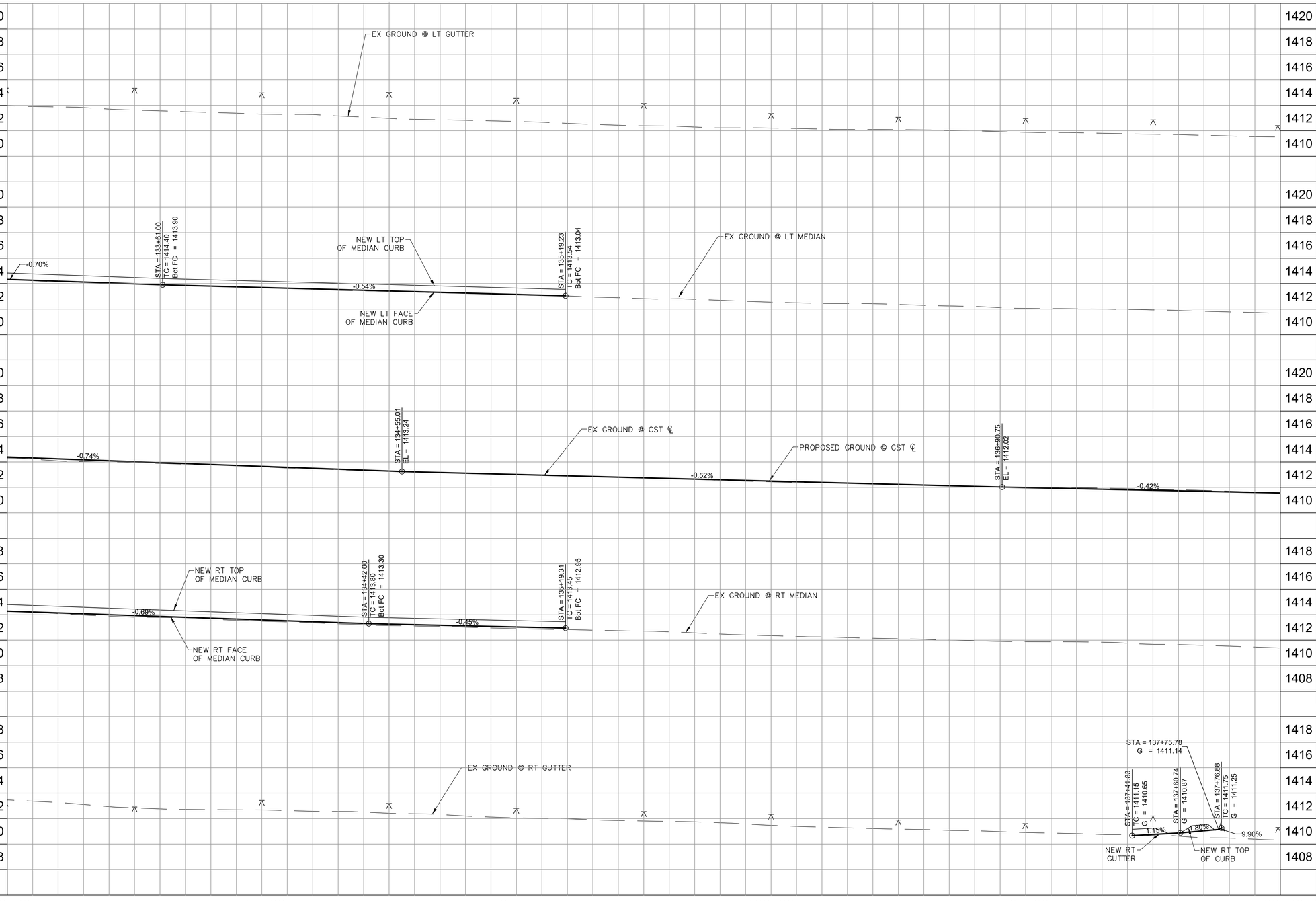
SHEET NAME: ST85100437PL26.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REGISTERED PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
DATE SIGNED
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	112	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.52
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			112 OF 364

SHEET NAME: ST85100437PRO26.DWG, PLOT DATE: 5/29/2024

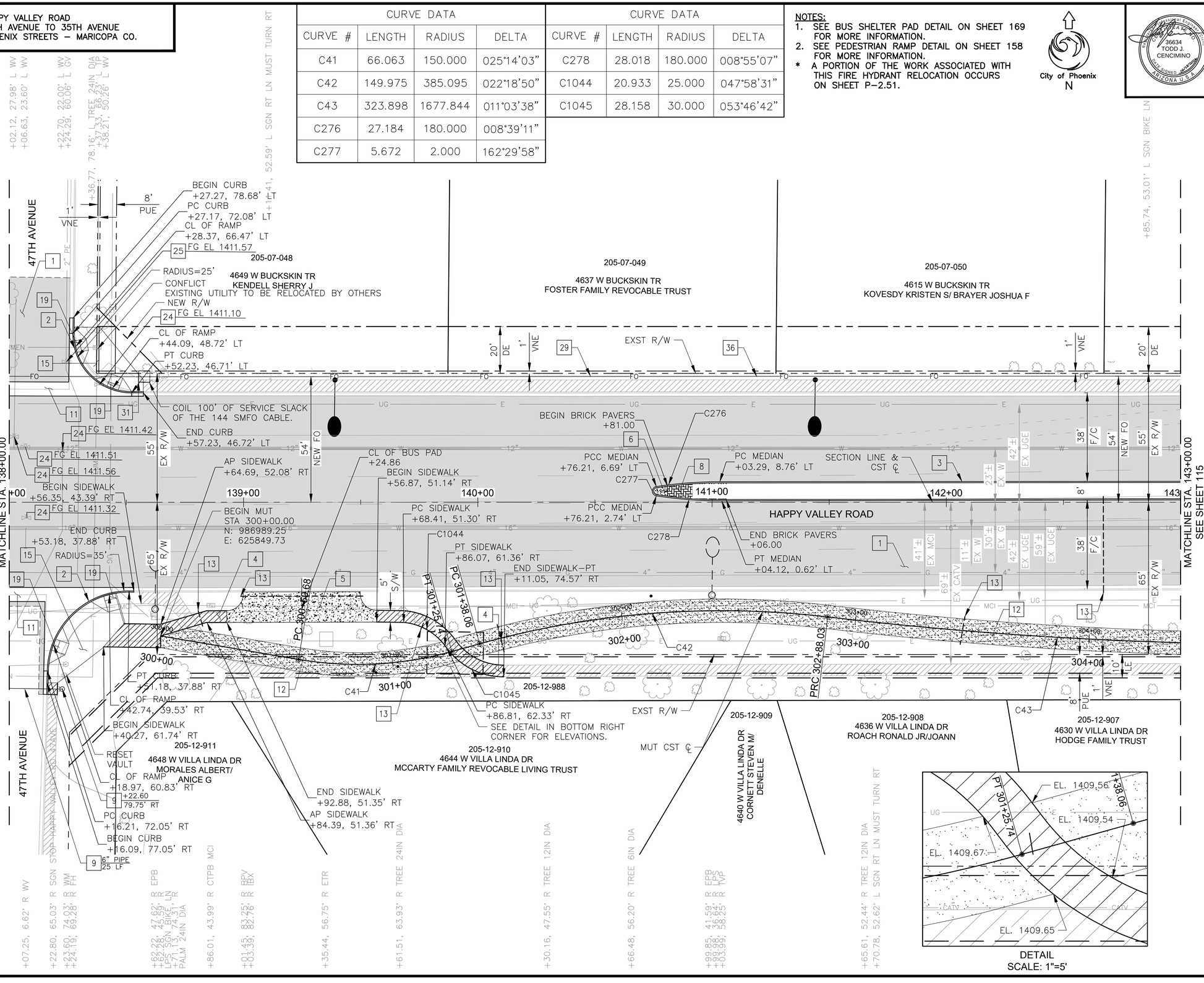
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C41	66.063	150.000	025°14'03"
C42	149.975	385.095	022°18'50"
C43	323.898	1677.844	011°03'38"
C276	27.184	180.000	008°39'11"
C277	5.672	2.000	162°29'58"

CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C278	28.018	180.000	008°55'07"
C1044	20.933	25.000	047°58'31"
C1045	28.158	30.000	053°46'42"

NOTES:
1. SEE BUS SHELTER PAD DETAIL ON SHEET 169 FOR MORE INFORMATION.
2. SEE PEDESTRIAN RAMP DETAIL ON SHEET 158 FOR MORE INFORMATION.
* A PORTION OF THE WORK ASSOCIATED WITH THIS FIRE HYDRANT RELOCATION OCCURS ON SHEET P–2.51.

City of Phoenix
N



DETAIL
SCALE: 1"=5'

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	113	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	4544
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	376
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1252
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS–1H	TON	3.03
	AGGREGATE BASE COURSE, 4" THICK	TON	988
	LIME TREATED SUBGRADE, 6" THICK	SY	4544
2	CONCRETE CURB & GUTTER MAG STD DET 220, TYPE A, H=6"	LF	112
3	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE A	LF	454
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	651
5	BUS SHELTER/ACCESSORY PAD COP STD DET P1262	SF	741
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	20
8	DECORATIVE BRICK PAVERS MAG STD DET. 225	SF	157
9	NEW FIRE HYDRANT, COP STD DET P1359, P1360, P1361, P1362	EA	1*
11	CONCRETE VALLEY GUTTER/APRON MAG STD DET 240	SF	815
12	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	4066
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	132
15	CONCRETE CURB RAMP, COP STD DET P1236	SF	1126
19	TRUNCATED DOMES, COP STD DET P1232	SF	40
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391–1	EA	5
25	ADJUST EX UTILITY VALVE, MAG STD DET 391–1 & 391–2	EA	1
29	ELECTRICAL CONDUIT (2–1.25") (PVC)	LF	550
31	PULLBOX (NO. 9) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	650

▲ BM 1507: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 47TH AVENUE ELEV: 1411.07' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–2.53
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			113 OF 364

SHEET NAME: ST85100437PL27.DWG, PLOT DATE: 6/18/2024

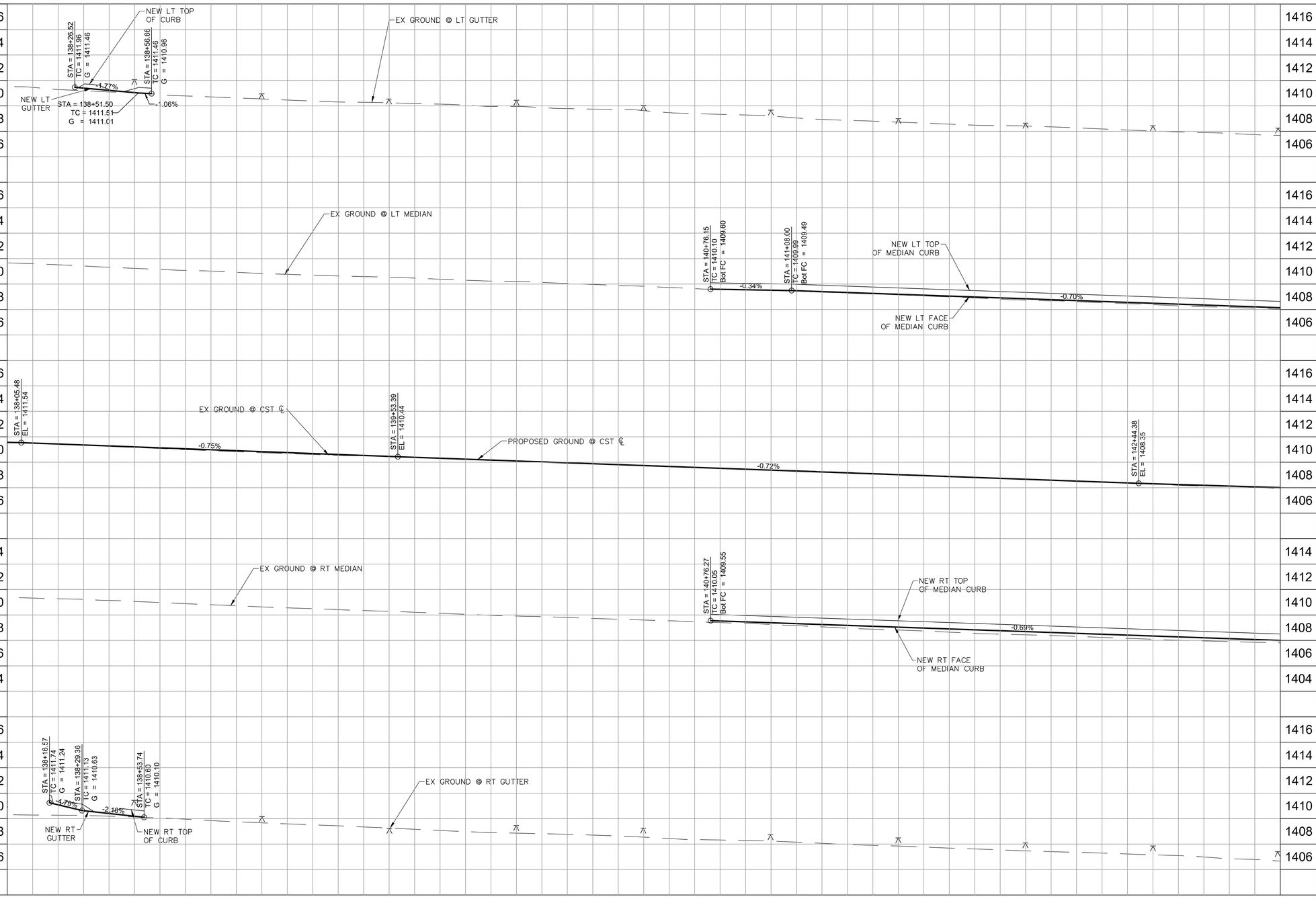
REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PROFESSIONAL ENGINEER
CERTIFICATE NO.
36634
TODD J. CENCIMINO
DATE SIGNED
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	114	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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ARIZONA811
Call 811 or click Arizona811.com

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ROADWAY PROFILE

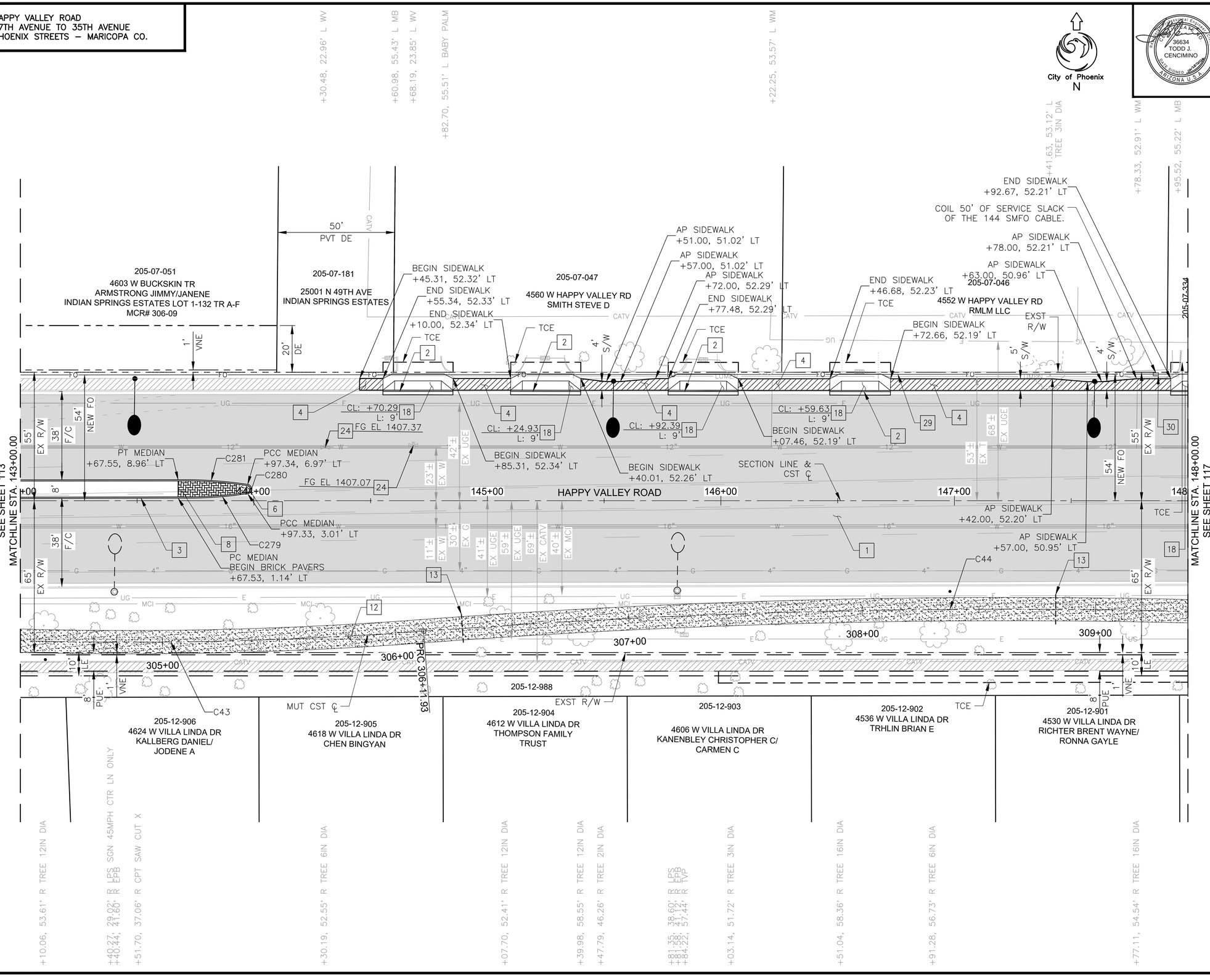
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.54
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			114 OF 364

SHEET NAME: ST85100437PRO27.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	115	368	

06/2024 DATE:

36634 TODD J. CENCIMINO — ARIZONA U.S.A.

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	4385
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	363
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1209
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	2.92
	AGGREGATE BASE COURSE, 4" THICK	TON	954
	LIME TREATED SUBGRADE, 6" THICK	SY	4385
2	CONCRETE CURB & GUTTER MAG STD DET 220, TYPE A, H=6"	LF	123
3	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE A	LF	201
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	1105
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	20
8	DECORATIVE BRICK PAVERS MAG STD DET. 225	SF	153
12	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	5007
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	26
18	CONCRETE DRIVEWAY ENTRANCE, COP STD DET P1244	SF	828
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	2
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	600

NOTES:
1. SEE DRIVEWAY DETAIL SHEETS 175, 176, & 177 FOR MORE INFORMATION.

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C43	323.898	1677.844	011°03'38"
C44	451.375	3333.323	007°45'31"
C279	29.884	180.000	009°30'45"
C280	5.697	2.000	163°13'04"
C281	29.888	180.000	009°30'49"

▲ BM 1507: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 47TH AVENUE ELEV: 1411.07' (C.O.P. DATUM)

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ARIZONA811
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"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.55
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			115 OF 364

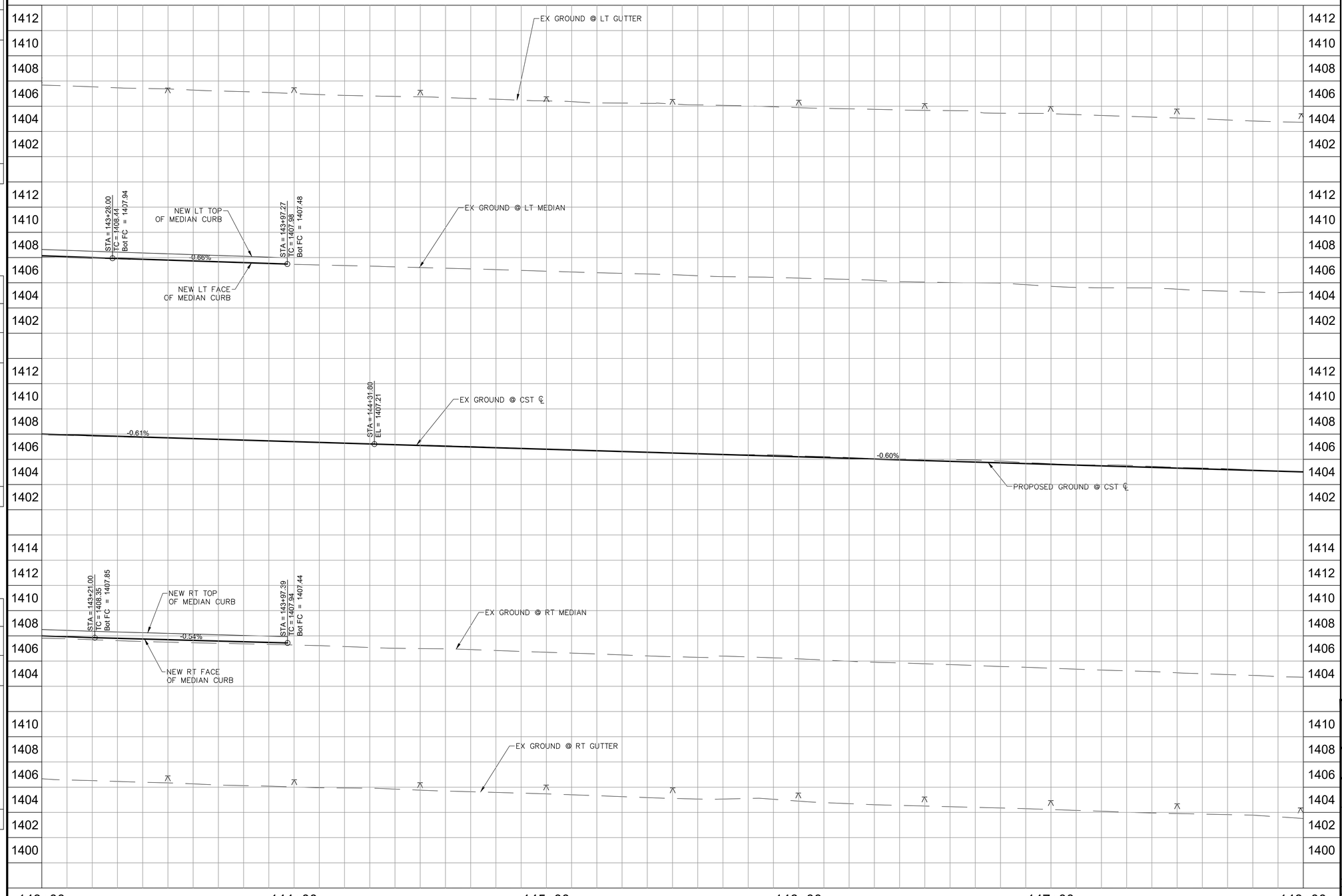
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437PL28.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

36634
TODD J.
CENCIMINO
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	116	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.56
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			116 OF 364

SHEET NAME: ST85100437PRO28.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C44	451.375	3333.333	007°45'31"
C45	130.794	868.733	008°37'35"
C46	39.983	157.550	014°32'26"

City of Phoenix
N

36634
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CENCIMINO
REGISTERED LANDSCAPE ARCHITECT
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	117	368	

06/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	4433
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	367
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1222
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	2.96
	AGGREGATE BASE COURSE, 4" THICK	TON	964
	LIME TREATED SUBGRADE, 6" THICK	SY	4433
2	CONCRETE CURB & GUTTER MAG STD DET 220, TYPE A, H=6'	LF	245
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	1628
7	BUS SHELTER/ACCESSORY PAD COP STD DET P1260	SF	594
11	CONCRETE VALLEY GUTTER/APRON MAG STD DET 240	SF	531
12	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	3104
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	24
17	CONCRETE SIDEWALK RAMP, COP STD DET P1241-2	SF	80
18	CONCRETE DRIVEWAY ENTRANCE, COP STD DET P1255-1	SF	308
19	TRUNCATED DOMES, COP STD DET P1232	SF	40
20	CONCRETE SIDEWALK RAMP, COP STD DET P1238-2	SF	407
23	ADJUST EX MANHOLE FRAME & COVER,MAG STD DET 422 & P1430	EA	1
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	3
26	CONCRETE SIDEWALK RAMP, COP STD DET P1240	SF	413
28	ADJUST SURVEY MONUMENT HH FRAME & COVER, STD DET P1270	EA	1
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	600

NOTES:
1. SEE BUS SHELTER PAD DETAIL ON SHEET 170 FOR MORE INFORMATION.
2. SEE PEDESTRIAN RAMP DETAIL ON SHEET 159 FOR MORE INFORMATION.
3. SEE DRIVEWAY DETAIL ON SHEET 177 FOR MORE INFORMATION.
4. SEE REMOVAL PLAN ON SHEET 46 FOR MORE INFORMATION ON POTHOLES.

▲ BM 1507: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 47TH AVENUE ELEV: 1411.07' (C.O.P. DATUM)

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ARIZONA811
Call 811 or click Arizona811.com

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-1.29
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			117 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437PL29.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.

REVISION BY CITY OF PHOENIX

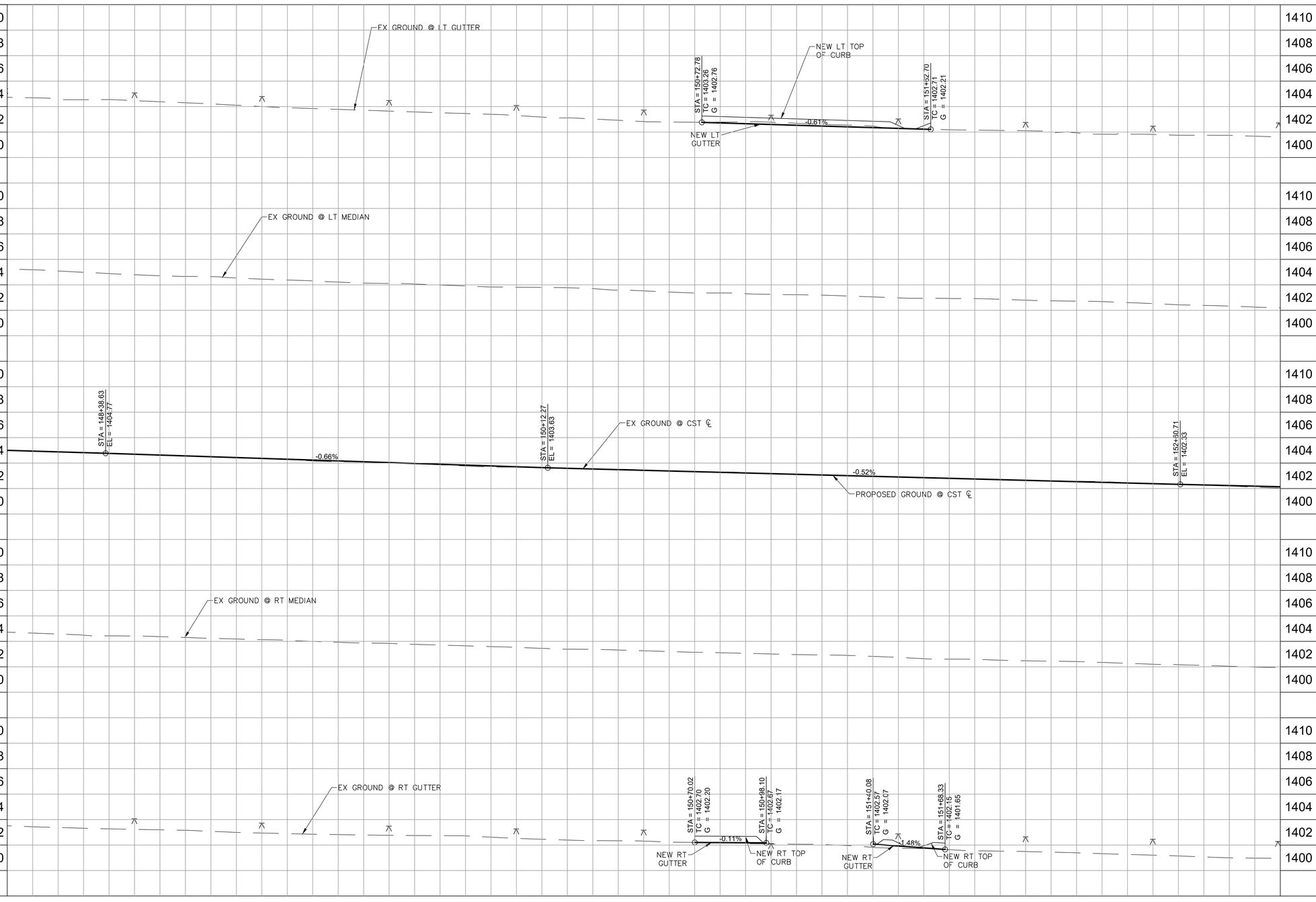
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



36634
TODD J. CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	118	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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ROADWAY PROFILE

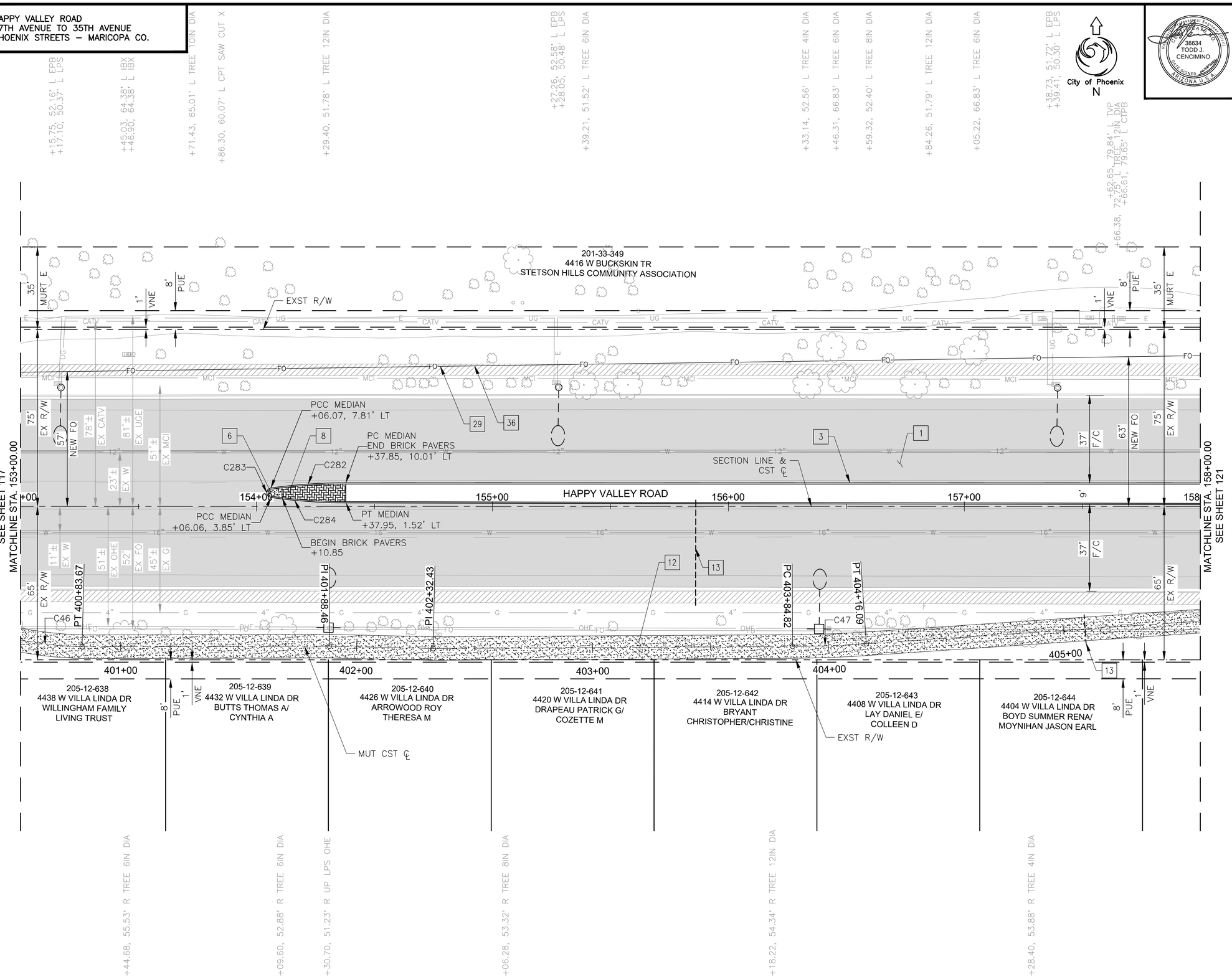
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.58
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			118 OF 364

SHEET NAME: ST85100437PRO29.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	119	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	4051
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	335
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1117
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	2.70
	AGGREGATE BASE COURSE, 4" THICK	TON	881
	LIME TREATED SUBGRADE, 6" THICK	SY	4051
3	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE A	LF	794
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	20
8	DECORATIVE BRICK PAVERS MAG STD DET. 225	SF	173
12	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	5005
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	57
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	550

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C46	39.983	157.550	014°32'26"
C47	31.267	505.000	003°32'51"
C282	31.882	225.000	008°07'07"
C283	5.715	2.000	163°42'50"
C284	32.007	225.000	008°09'02"

▲ BM 1507: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 47TH AVENUE ELEV: 1411.07' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.59
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			119 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437PL30.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.

REVISION BY CITY OF PHOENIX

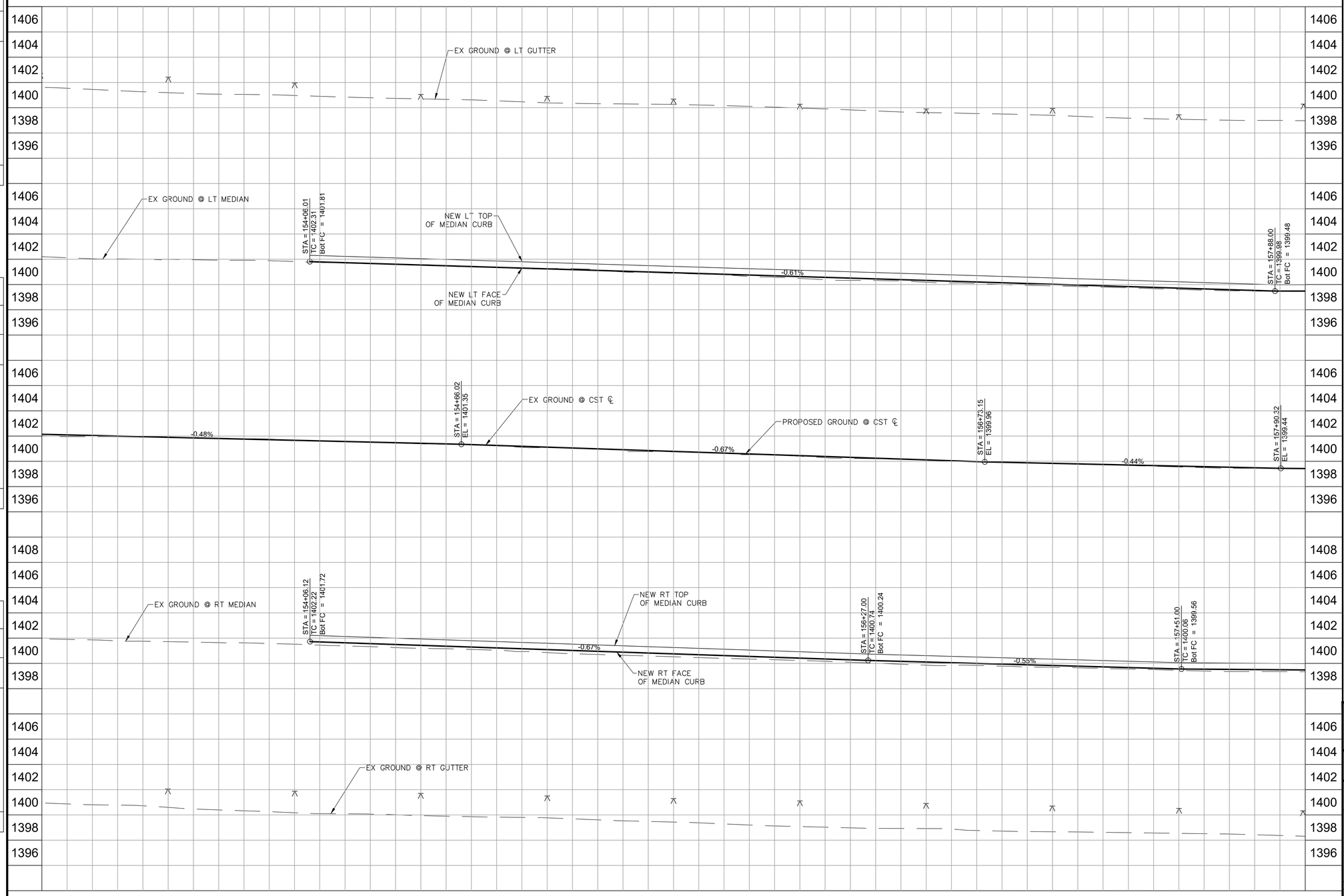
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	120	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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ROADWAY PROFILE

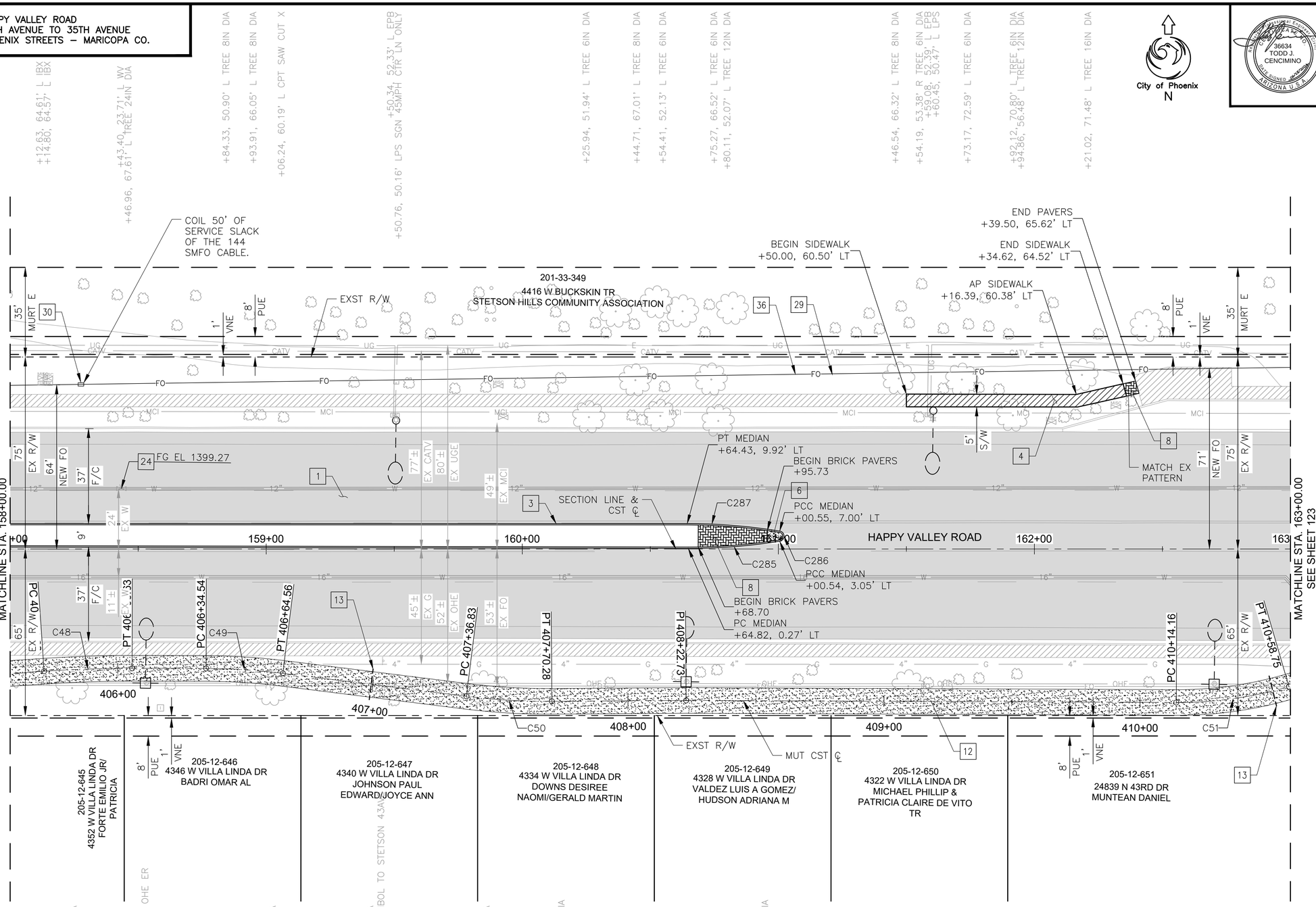
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.60
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL 4' VERTICAL			120 OF 364

SHEET NAME: ST85100437PRO30.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	121	368	

06/2024 DATE:

36634 TODD J. CENCIMINO — ARIZONA U.S.A.

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	4180
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	346
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1152
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	2.79
	AGGREGATE BASE COURSE, 4" THICK	TON	909
	LIME TREATED SUBGRADE, 6" THICK	SY	4180
3	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE A	LF	607
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	423
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	20
8	DECORATIVE BRICK PAVERS MAG STD DET. 225	SF	215
12	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	5014
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	24
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	1
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	600

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C48	34.407	495.000	003°58'57"
C49	30.014	245.000	007°01'08"
C50	33.452	255.000	007°30'59"
C51	44.586	155.000	016°28'53"
C285	35.861	225.000	009°07'55"
C286	5.646	2.000	161°44'15"
C287	36.271	225.000	009°14'10"

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.61
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			121 OF 364

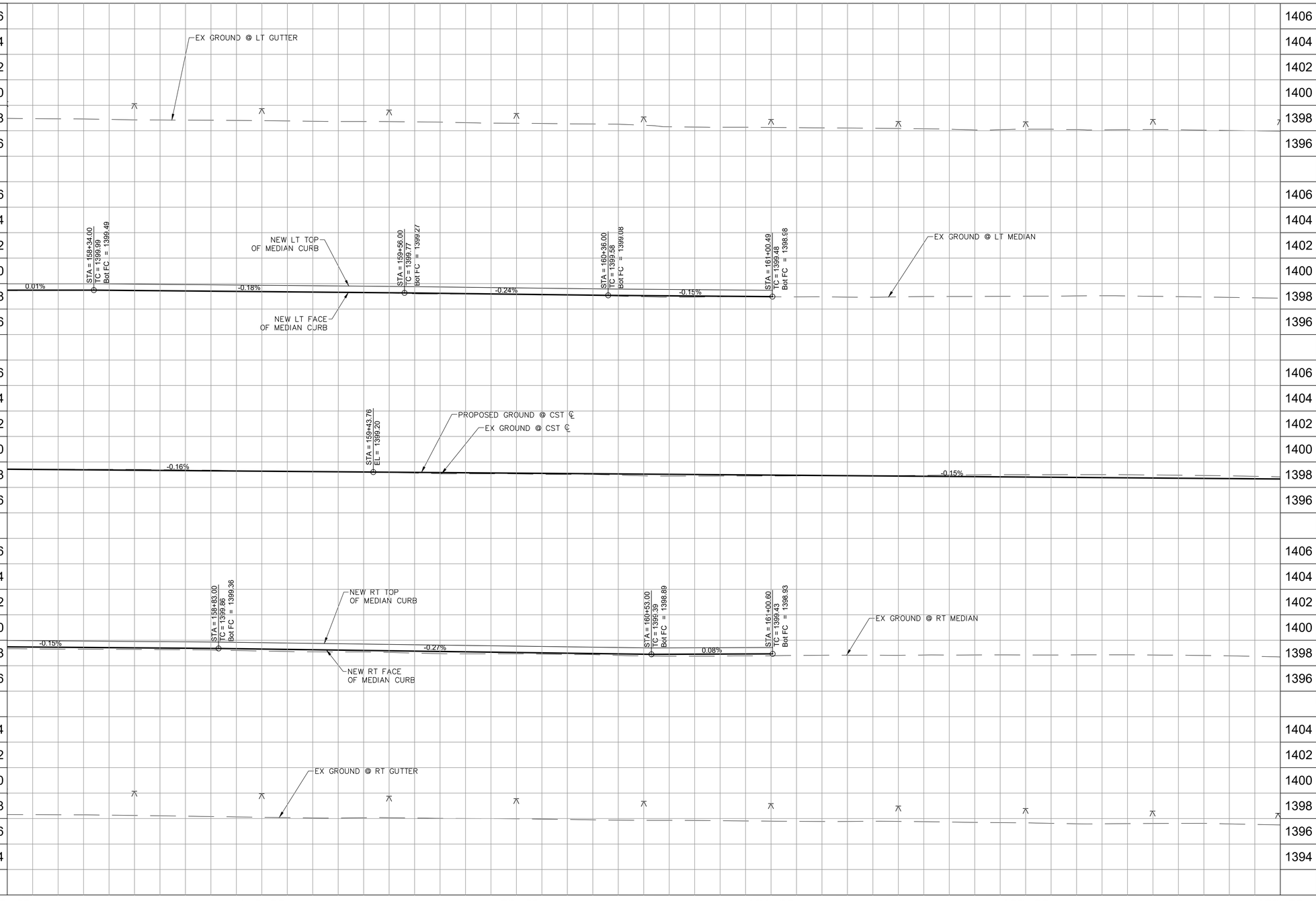
SHEET NAME: ST85100437PL31.DWG, PLOT DATE: 6/18/2024

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	122	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

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ROADWAY PROFILE

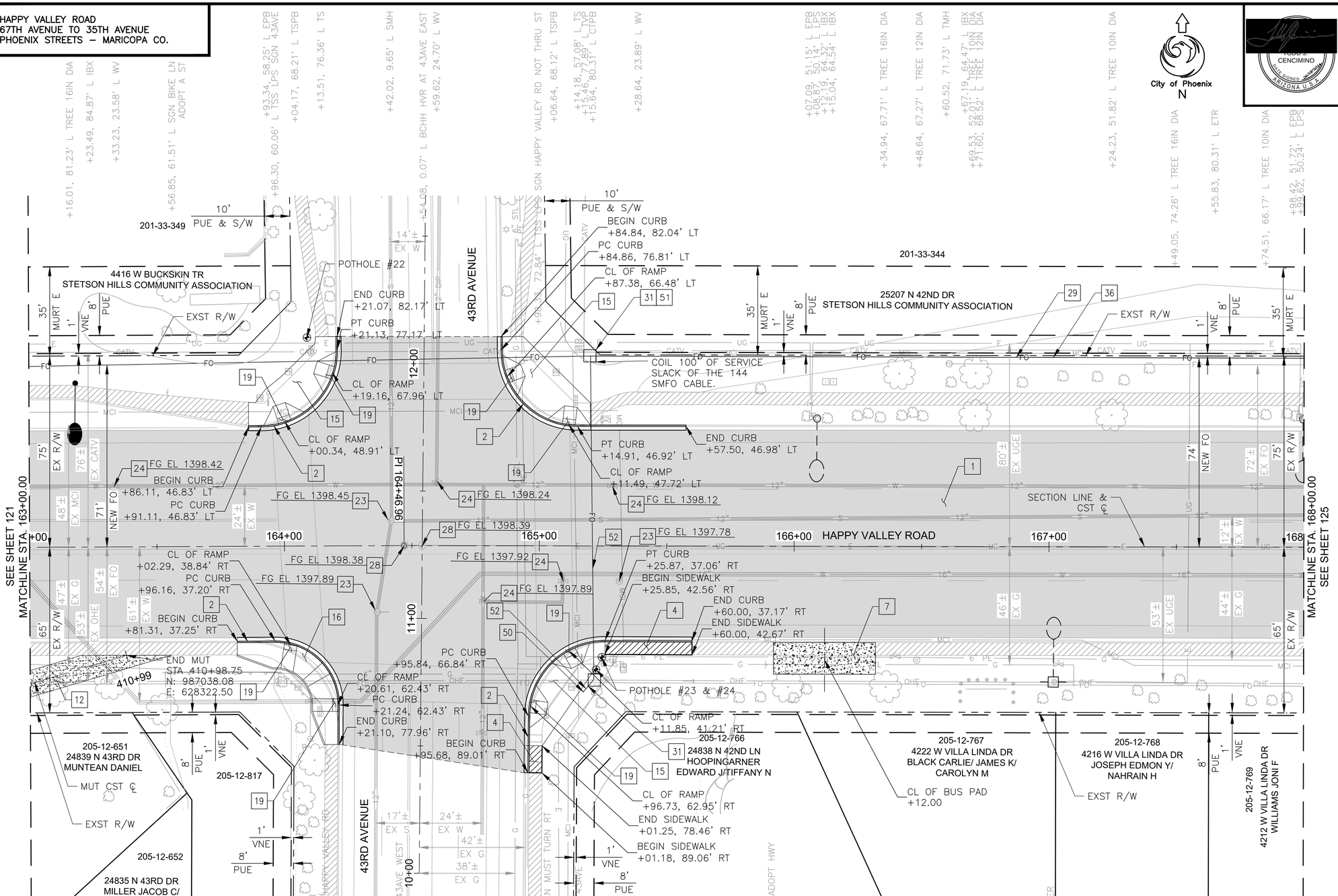
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.62
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			122 OF 364

SHEET NAME: ST85100437PRO31.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

JOHN F. CENCIMINO
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	123	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	5231
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	433
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1442
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	3.49
	AGGREGATE BASE COURSE, 4" THICK	TON	1138
	LIME TREATED SUBGRADE, 6" THICK	SY	5231
2	CONCRETE CURB & GUTTER, MAG STD DET 220-1, TYPE A, H=6"	LF	326
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	224
7	BUS SHELTER/ACCESSORY PAD, COP STD DET P1260	SF	496
12	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	394
15	CONCRETE CURB RAMP, COP STD DET P1236	SF	1867
16	CONCRETE CURB RAMP, COP STD DET P1237	SF	572
19	TRUNCATED DOMES, COP STD DET P1232	SF	80
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	3
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	5
28	ADJUST SURVEY MONUMENT HH FRAME & COVER, STD DET P1270	EA	2
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
31	PULLBOX (NO. 9) (CITY OF PHOENIX)	EA	2
36	SINGLE MODE FIBER OPTIC CABLE (144 CABLES)	LF	650
50	FIBER OPTIC EQUIPMENT (CITY OF PHOENIX) (FIELD HARDENED ETHERNET SWITCH)	EA	1
51	FIBER OPTIC SPLICE CLOSURE (CITY OF PHOENIX)	EA	1
52	BREAK-AWAY CONNECTOR SYSTEM (WITH TAIL)	EA	2

NOTES:
1. SEE BUS SHELTER PAD DETAIL ON SHEET 171 FOR MORE INFORMATION.
2. SEE PEDESTRIAN RAMP DETAIL ON SHEET 160 FOR MORE INFORMATION.
3. SEE REMOVAL PLAN ON SHEET 49 FOR MORE INFORMATION ON POTHOLES.

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

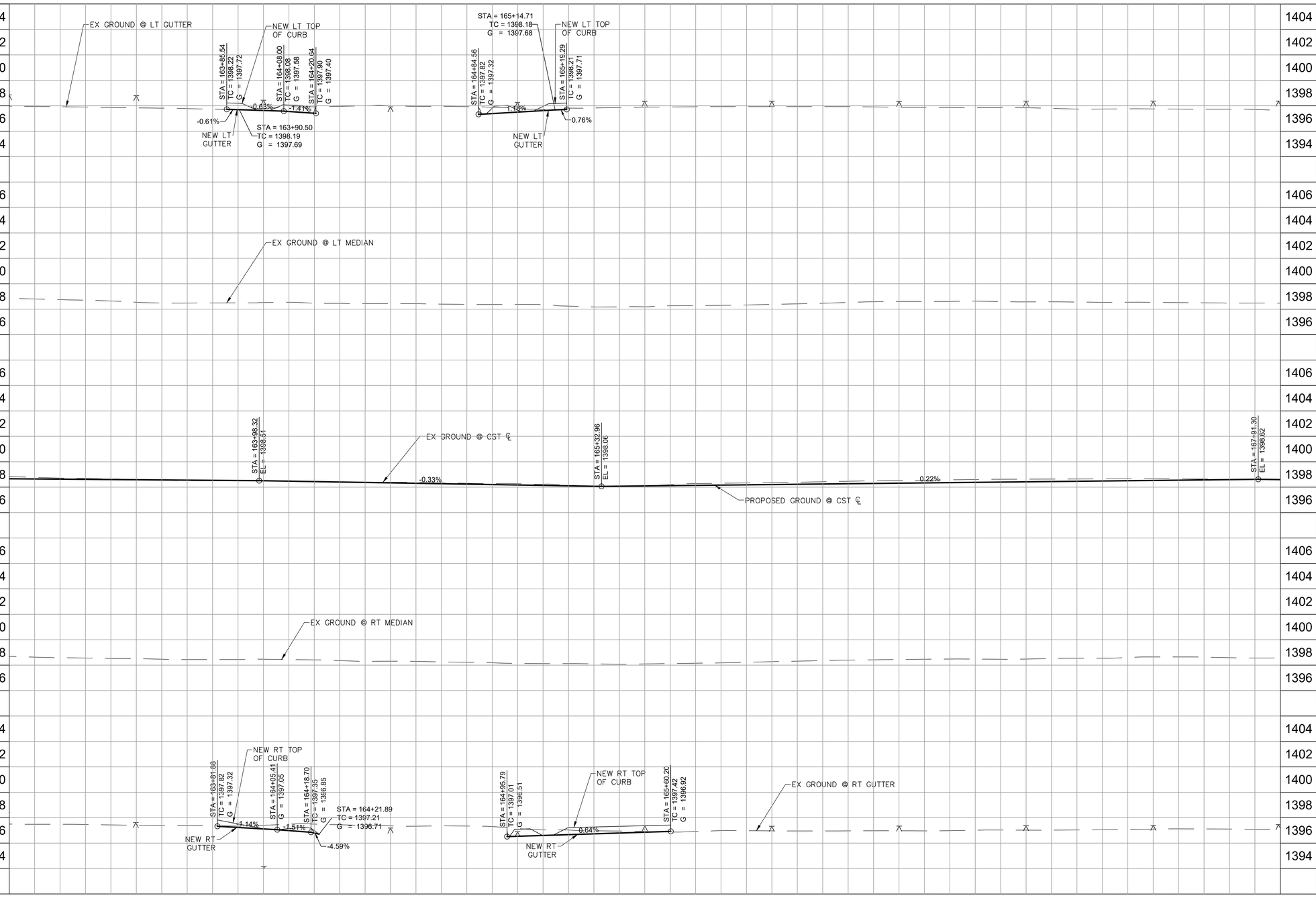
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.63
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			123 OF 364

SHEET NAME: ST85100437PL32.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

ARIZONA U.S.A. REGISTERED PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
DATE SIGNED
CERTIFICATE NO.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	124	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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ARIZONA811
Call 811 or click Arizona811.com

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ROADWAY PROFILE

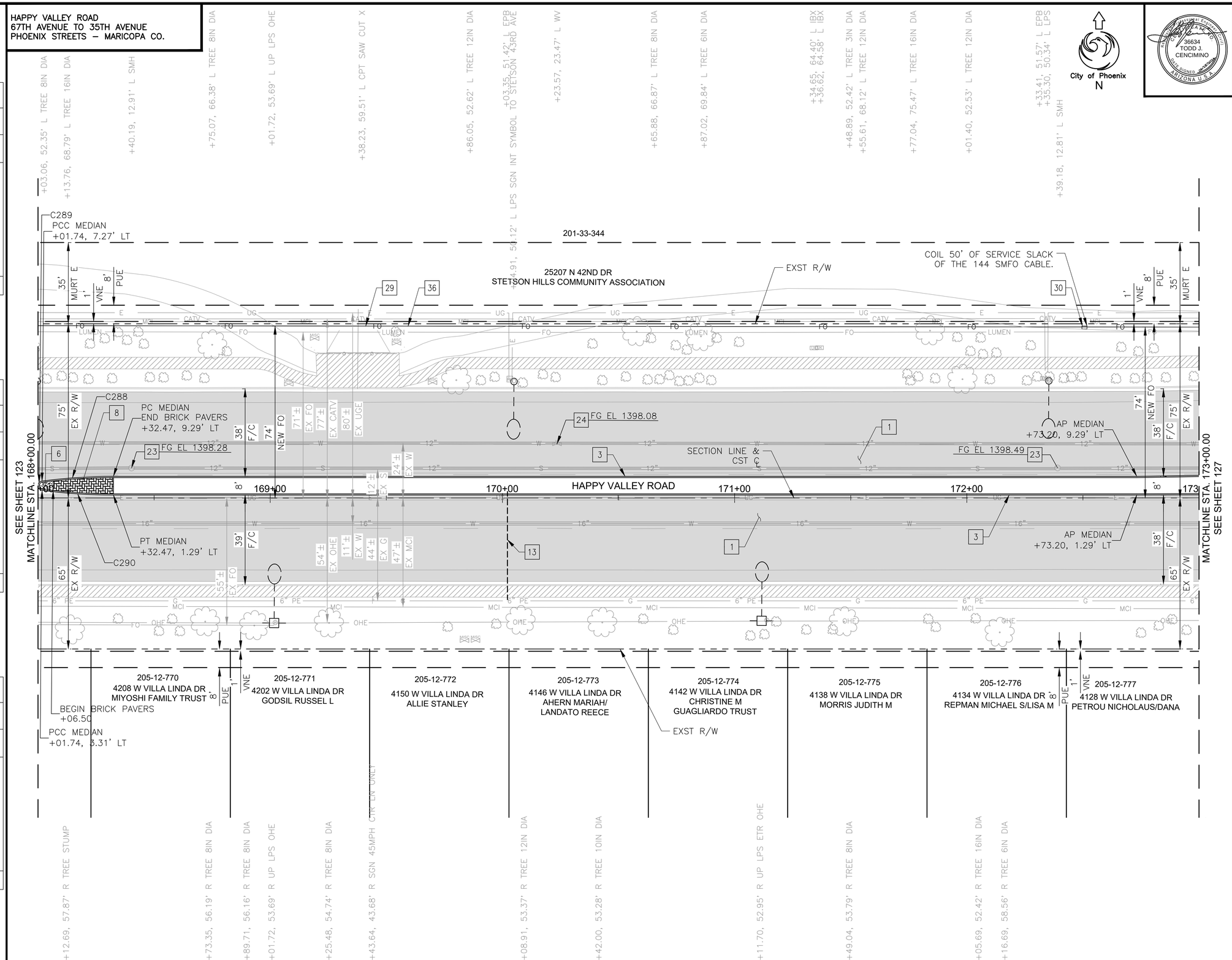
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.64
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			124 OF 364

SHEET NAME: ST85100437PRO32.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	125	368	

06/2024
DATE:

36634
TODD J.
CENCIMINO
ARIZONA U.S.A.

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	4097
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	339
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1129
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	2.73
	AGGREGATE BASE COURSE, 4" THICK	TON	891
	LIME TREATED SUBGRADE, 6" THICK	SY	4097
3	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE A	LF	1002
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	20
8	DECORATIVE BRICK PAVERS MAG STD DET. 225	SF	157
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	47
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	2
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	1
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	600

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C288	30.815	235.000	007°30'47"
C289	5.759	2.000	164°58'25"
C290	30.815	235.000	007°30'47"

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

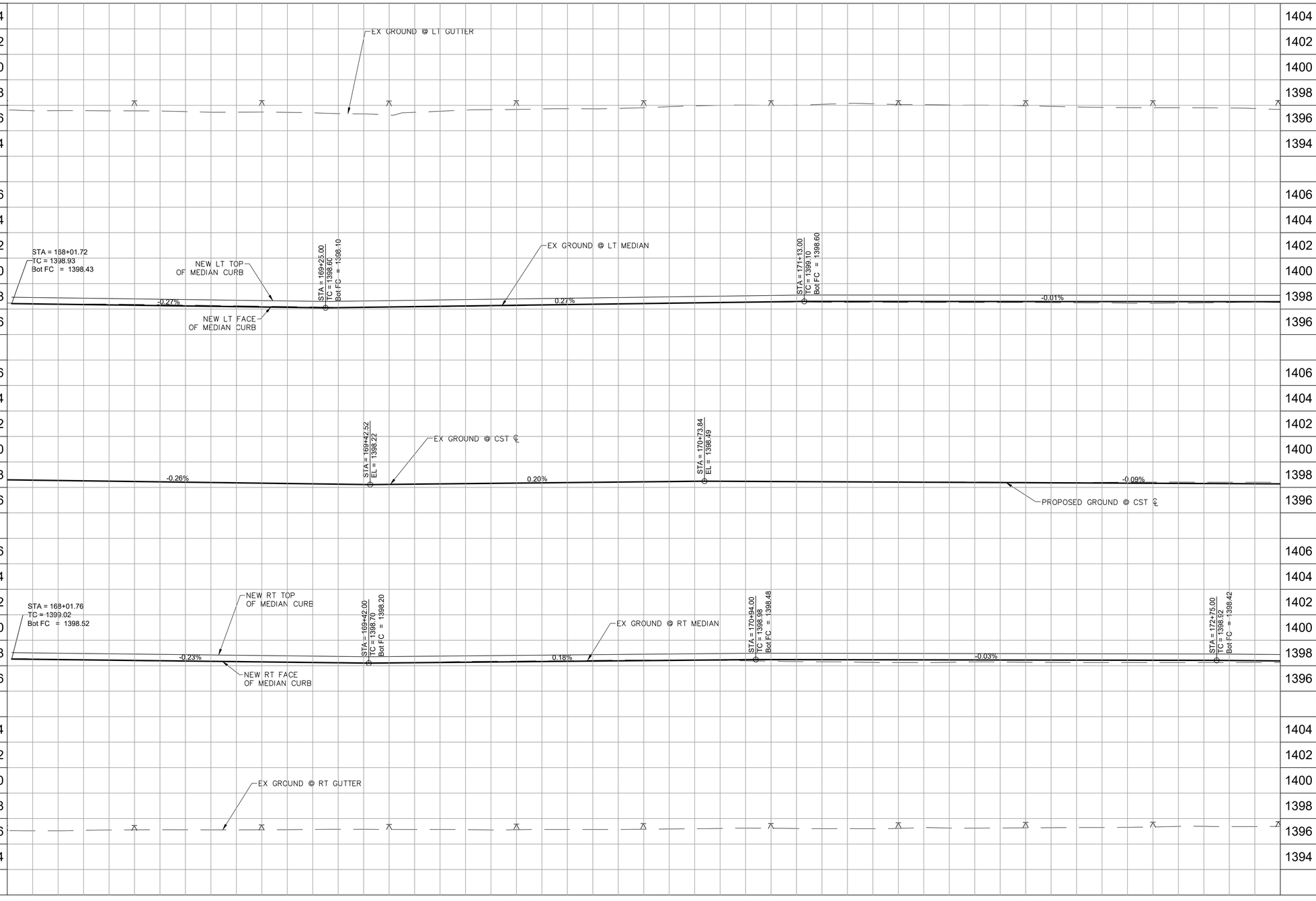
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.65
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			125 OF 364

SHEET NAME: ST85100437PL33.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

STATE OF ARIZONA REGISTERED PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
DATE SIGNED
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	126	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PROFILE

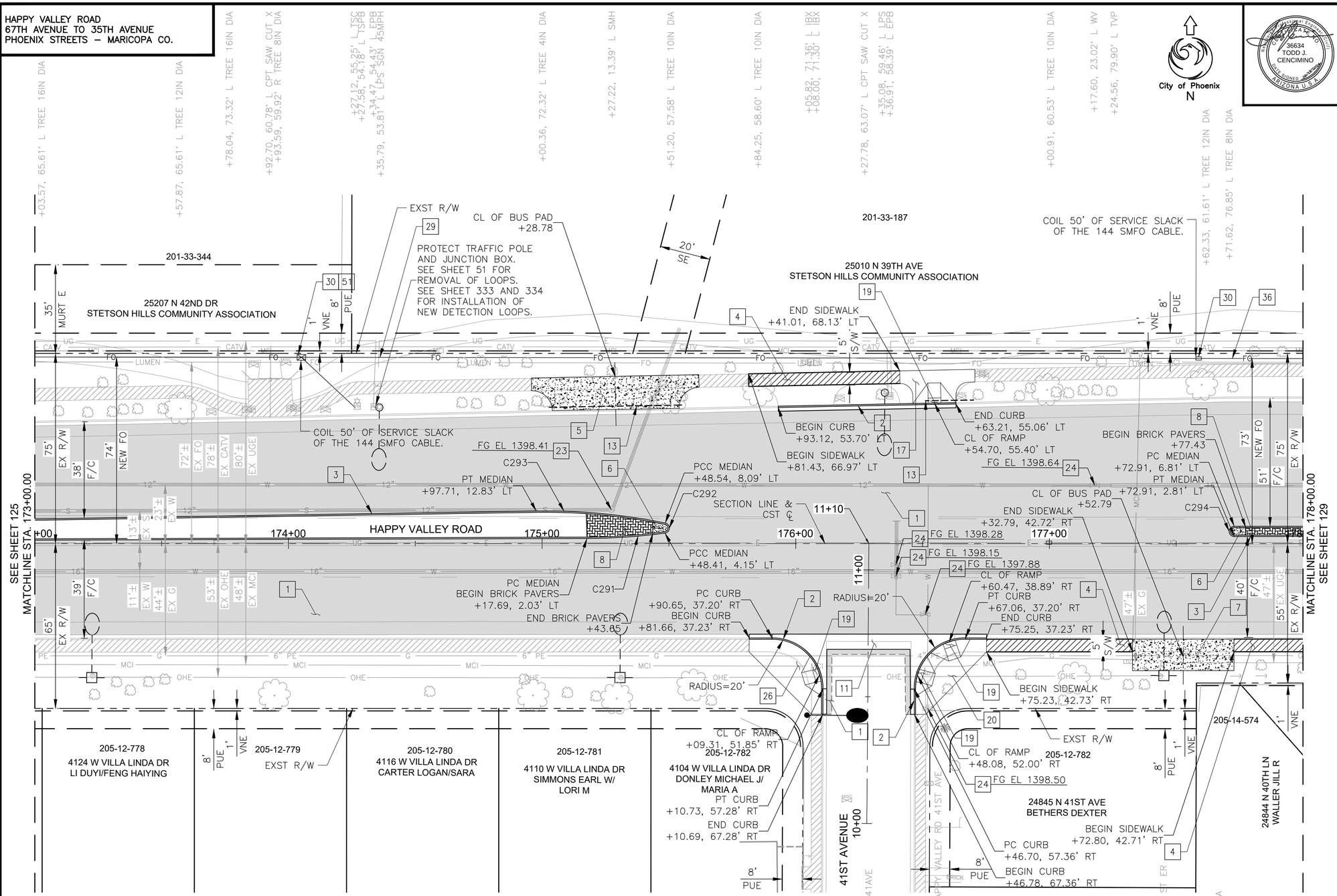
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.66
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			126 OF 364

SHEET NAME: ST85100437PRO33.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C291	30.813	235.000	007°30'45"
C292	5.611	2.000	160°44'29"
C293	51.153	235.000	012°28'18"
C294	6.283	2.000	180°00'00"

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	127	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	4589
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	379
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1265
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	3.06
	AGGREGATE BASE COURSE, 4" THICK	TON	998
	LIME TREATED SUBGRADE, 6" THICK	SY	4589
2	CONCRETE CURB & GUTTER MAG STD DET 220, TYPE A, H=6"	LF	171
3	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE A	LF	562
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	724
5	BUS SHELTER/ACCESSORY PAD COP STD DET P1262	SF	761
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	38
7	BUS SHELTER/ACCESSORY PAD COP STD DET P1260	SF	497
8	DECORATIVE BRICK PAVERS, MAG STD DET. 225	SF	260
11	CONCRETE VALLEY GUTTER/APRON MAG STD DET 240	SF	496
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	71
17	CONCRETE SIDEWALK RAMP, COP STD DET P1241-2	SF	294
19	TRUNCATED DOMES, COP STD DET P1232	SF	40
20	CONCRETE SIDEWALK RAMP, COP STD DET P1238-2	SF	454
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	1
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	5
26	CONCRETE SIDEWALK RAMP, COP STD DET P1240	SF	462
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	2
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	650
51	FIBER OPTIC SPLICE CLOSURE (CITY OF PHOENIX)	EA	1

NOTES:
1. SEE BUS SHELTER PAD DETAILS ON SHEET 171 AND 172 FOR MORE INFORMATION.
2. SEE PEDESTRIAN RAMP DETAIL ON SHEET 161 FOR MORE INFORMATION.

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.67
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			127 OF 364

SHEET NAME: ST85100437PL34.DWG, PLOT DATE: 6/18/2024

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CKD BY | DATE

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CKD BY | DATE

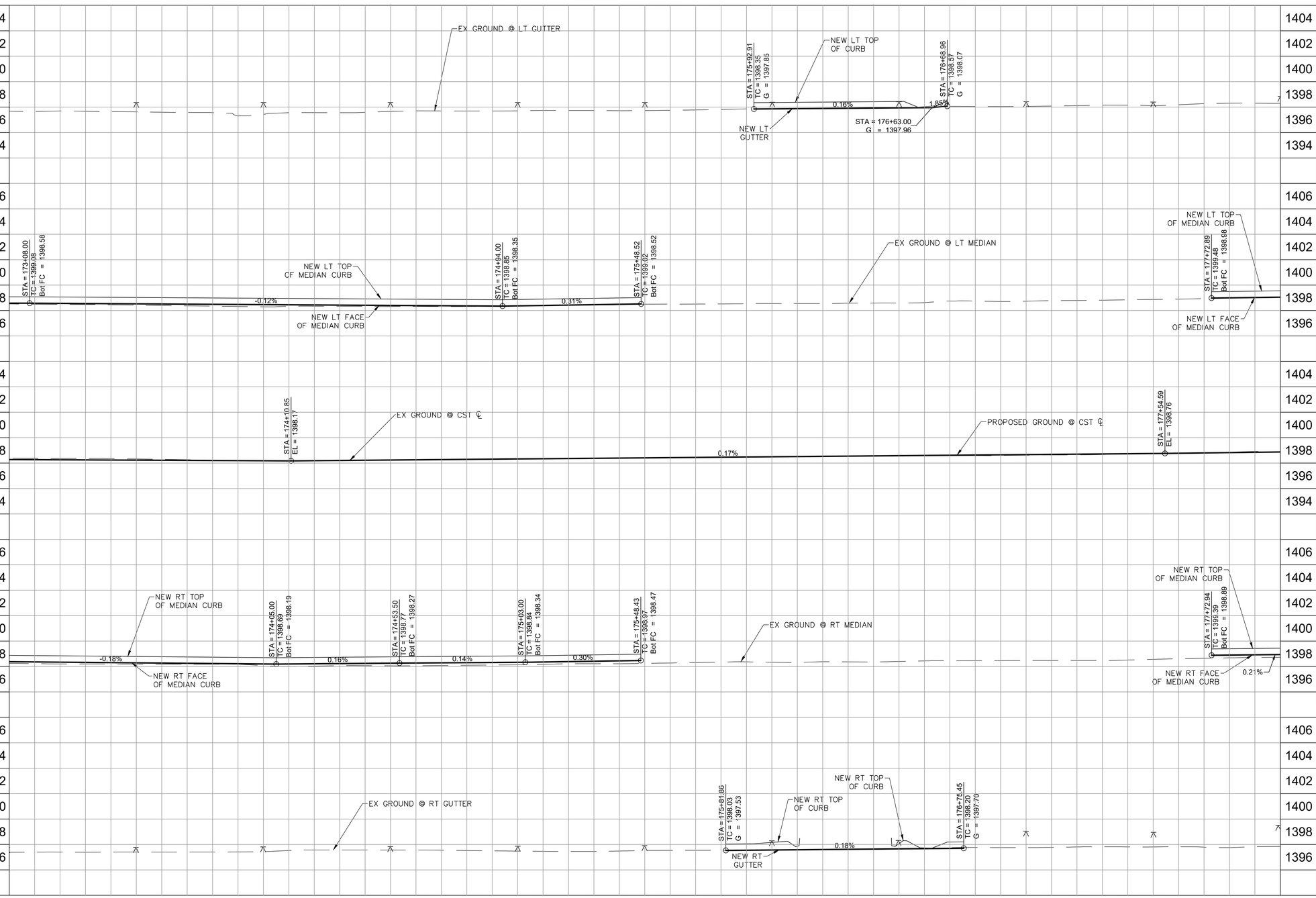
REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CKD BY | DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	128	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634
TODD J.
CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.

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ROADWAY PROFILE

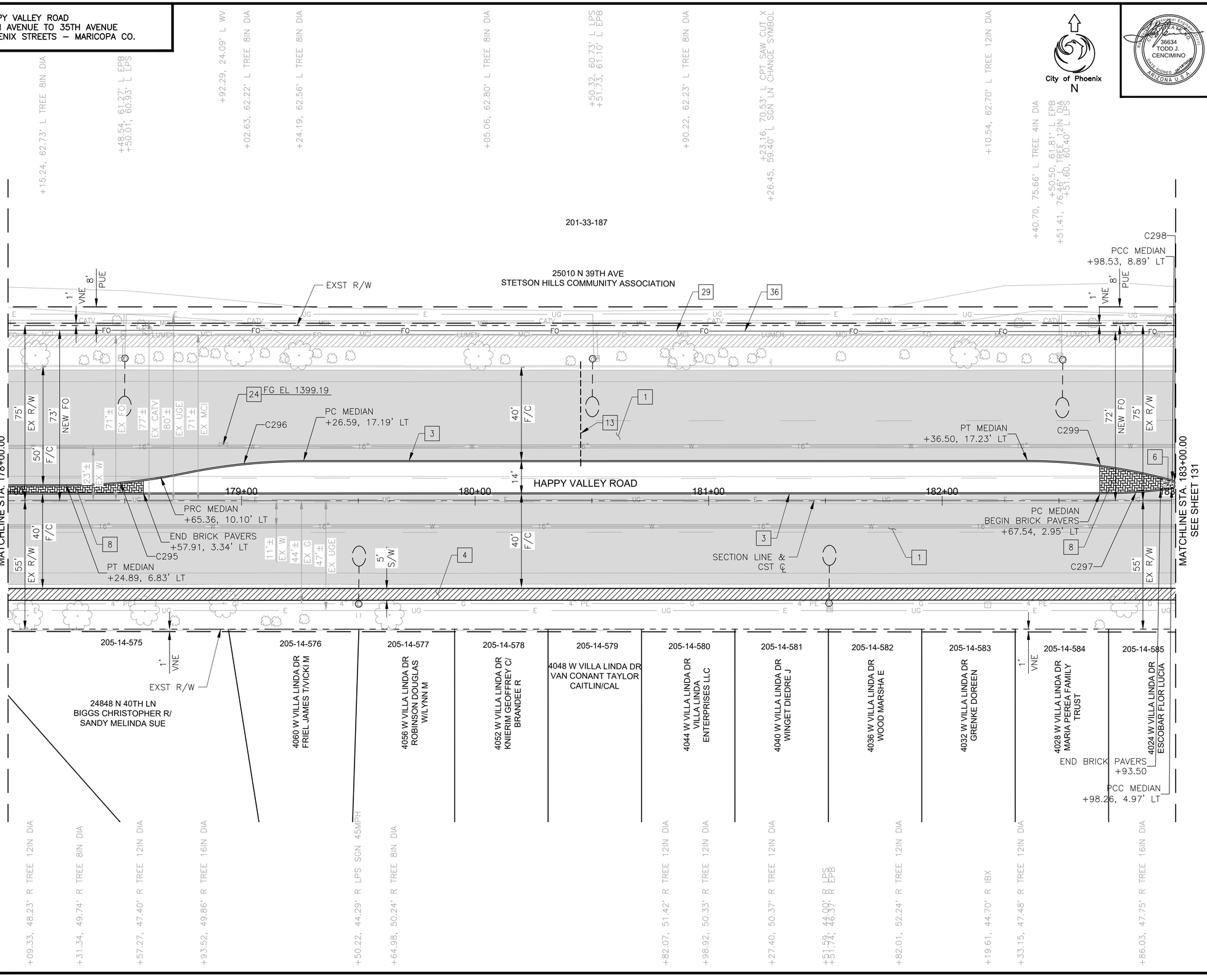
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.68
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			128 OF 364

SHEET NAME: ST85100437PRO34.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	129	368	

06/2024 DATE:

36634 TODD J. CENCIMINO — REGISTERED LAND SURVEYOR — ARIZONA U.S.A.

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	4406
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	364
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1214
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS–1H	TON	2.94
	AGGREGATE BASE COURSE, 4" THICK	TON	958
	LIME TREATED SUBGRADE, 6" THICK	SY	4406
3	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE A	LF	1004
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	2500
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	21
8	DECORATIVE BRICK PAVERS, MAG STD DET. 225	SF	418
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	45
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391–1	EA	1
29	ELECTRICAL CONDUIT (2–1.25") (PVC)	LF	550
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	550

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C295	51.174	252.500	011°36'44"
C296	51.225	252.500	011°37'25"
C297	30.813	235.000	007°30'45"
C298	5.486	2.000	157°10'20"
C299	62.770	235.000	015°18'14"

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–2.69
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			129 OF 364

SHEET NAME: ST85100437PL35.DWG, PLOT DATE: 6/18/2024

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

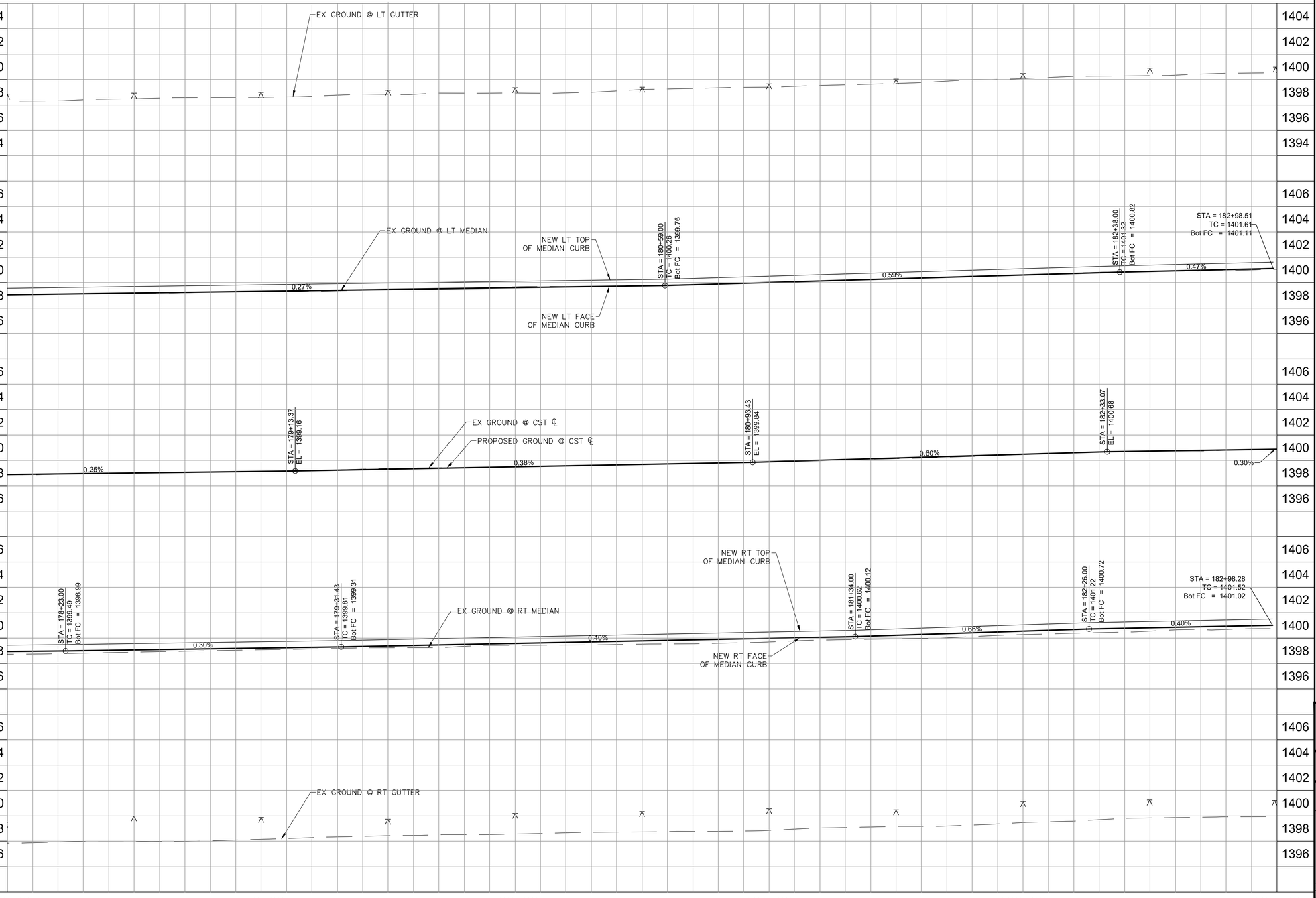
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PROFESSIONAL ENGINEER
CERTIFICATE NO.
36634
TODD J. CENCIMINO
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	130	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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ARIZONA811
Call 811 or click Arizona811.com

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ROADWAY PROFILE

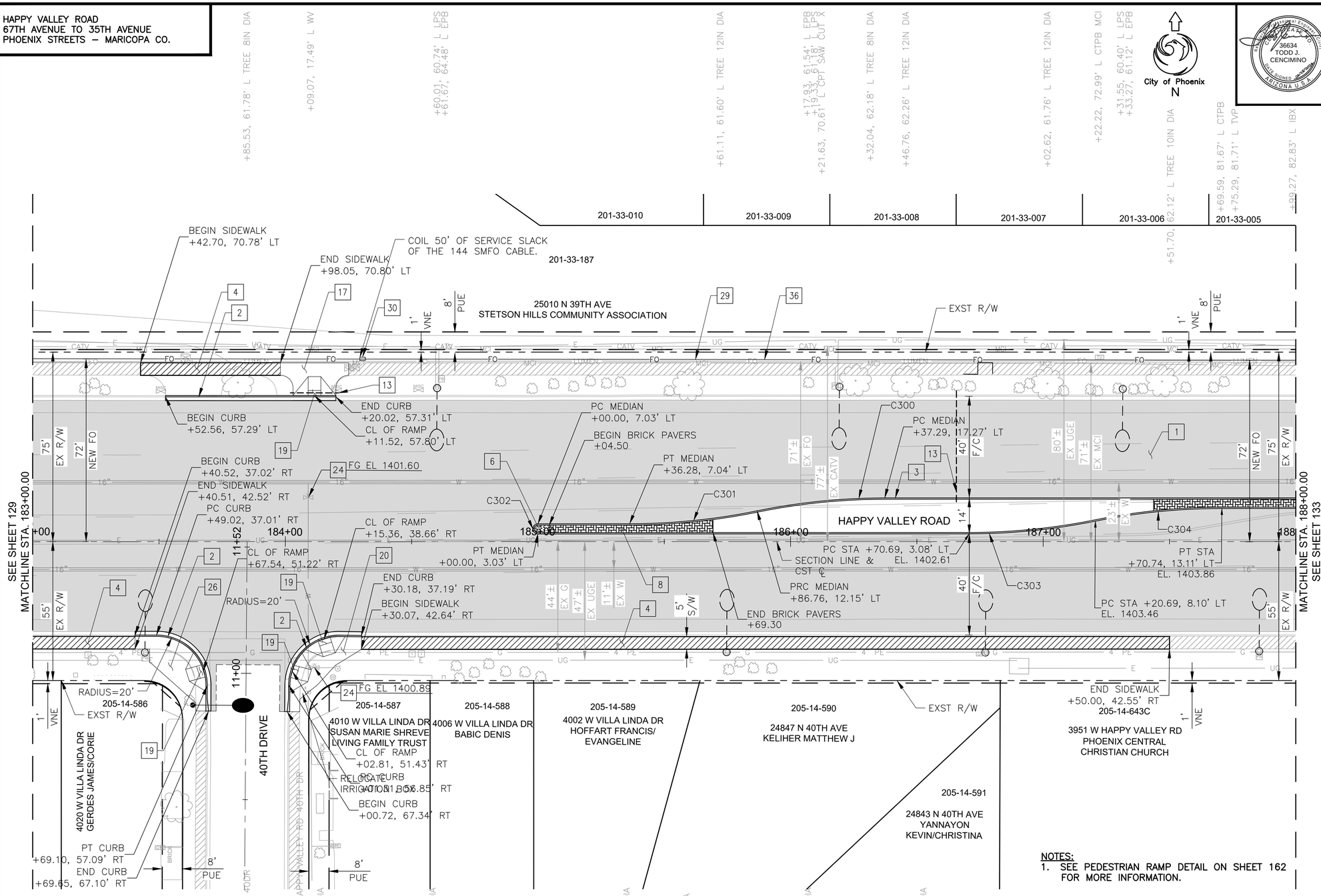
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.70
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL 4' VERTICAL			130 OF 364

SHEET NAME: ST85100437PRO35.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



NOTES:
1. SEE PEDESTRIAN RAMP DETAIL ON SHEET 162 FOR MORE INFORMATION.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	131	368	

06/2024 DATE:

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	4877
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	403
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	1344
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS–1H	TON	3.25
	AGGREGATE BASE COURSE, 4" THICK	TON	1061
	LIME TREATED SUBGRADE, 6" THICK	SY	4877
2	CONCRETE CURB & GUTTER MAG STD DET 220, TYPE A, H=6"	LF	168
3	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE A	LF	607
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	2077
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	17
8	DECORATIVE BRICK PAVERS, MAG STD DET. 225	SF	409
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	63
17	CONCRETE SIDEWALK RAMP, COP STD DET P1241–2	SF	282
19	TRUNCATED DOMES, COP STD DET P1232	SF	40
20	CONCRETE SIDEWALK RAMP, COP STD DET P1238–2	SF	400
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391–1	EA	2
26	CONCRETE SIDEWALK RAMP, COP STD DET P1240	SF	400
29	ELECTRICAL CONDUIT (2–1.25") (PVC)	LF	550
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	600

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C300	50.873	252.500	011°32'38"
C301	50.823	252.500	011°31'57"
C302	6.283	2.000	180°00'00"
C303	50.707	252.500	011°30'22"
C304	50.388	252.500	011°26'01"

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–2.71
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			131 OF 364

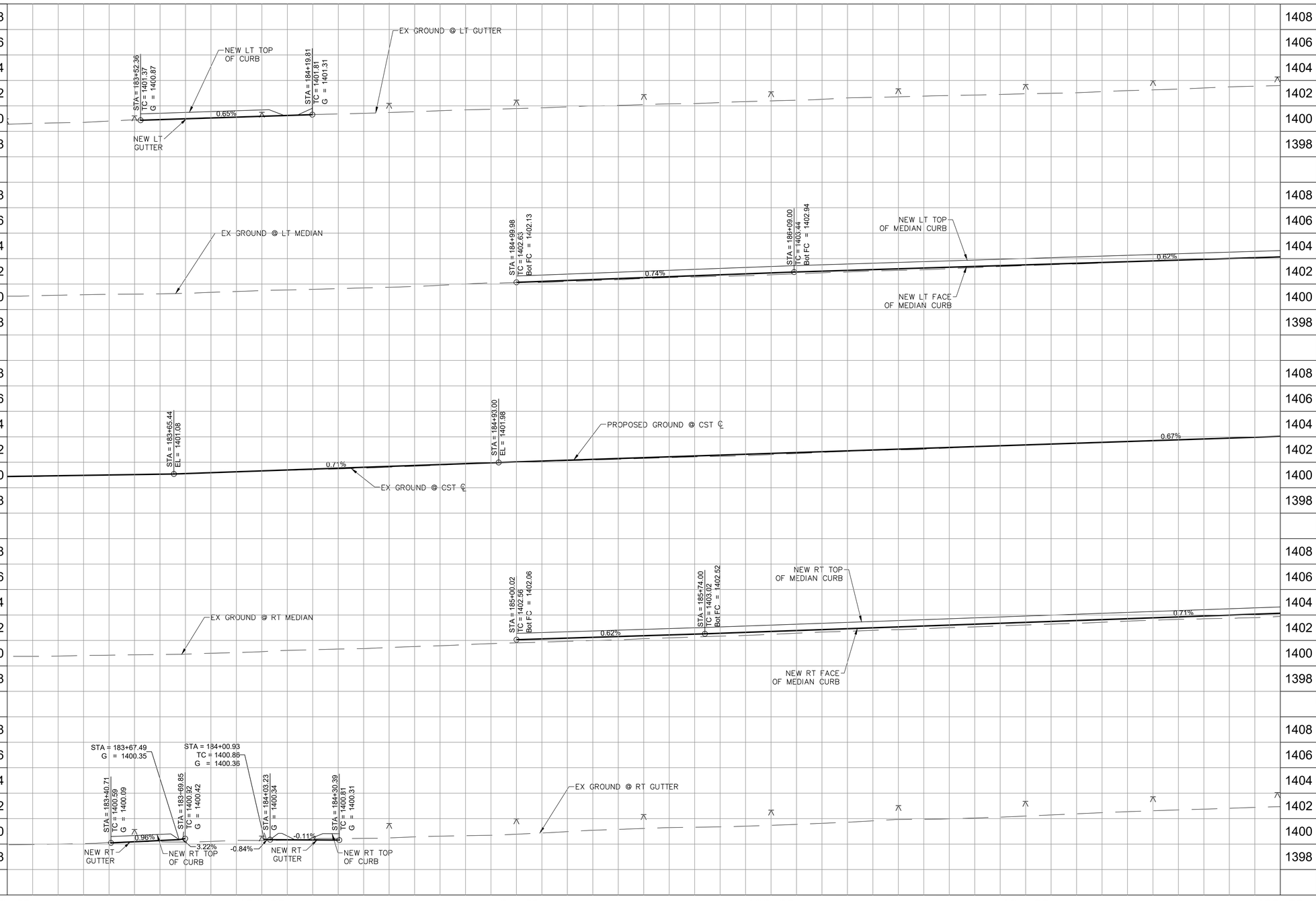
SHEET NAME: ST85100437PL36.DWG, PLOT DATE: 6/18/2024

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	132	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

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ARIZONA811 Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

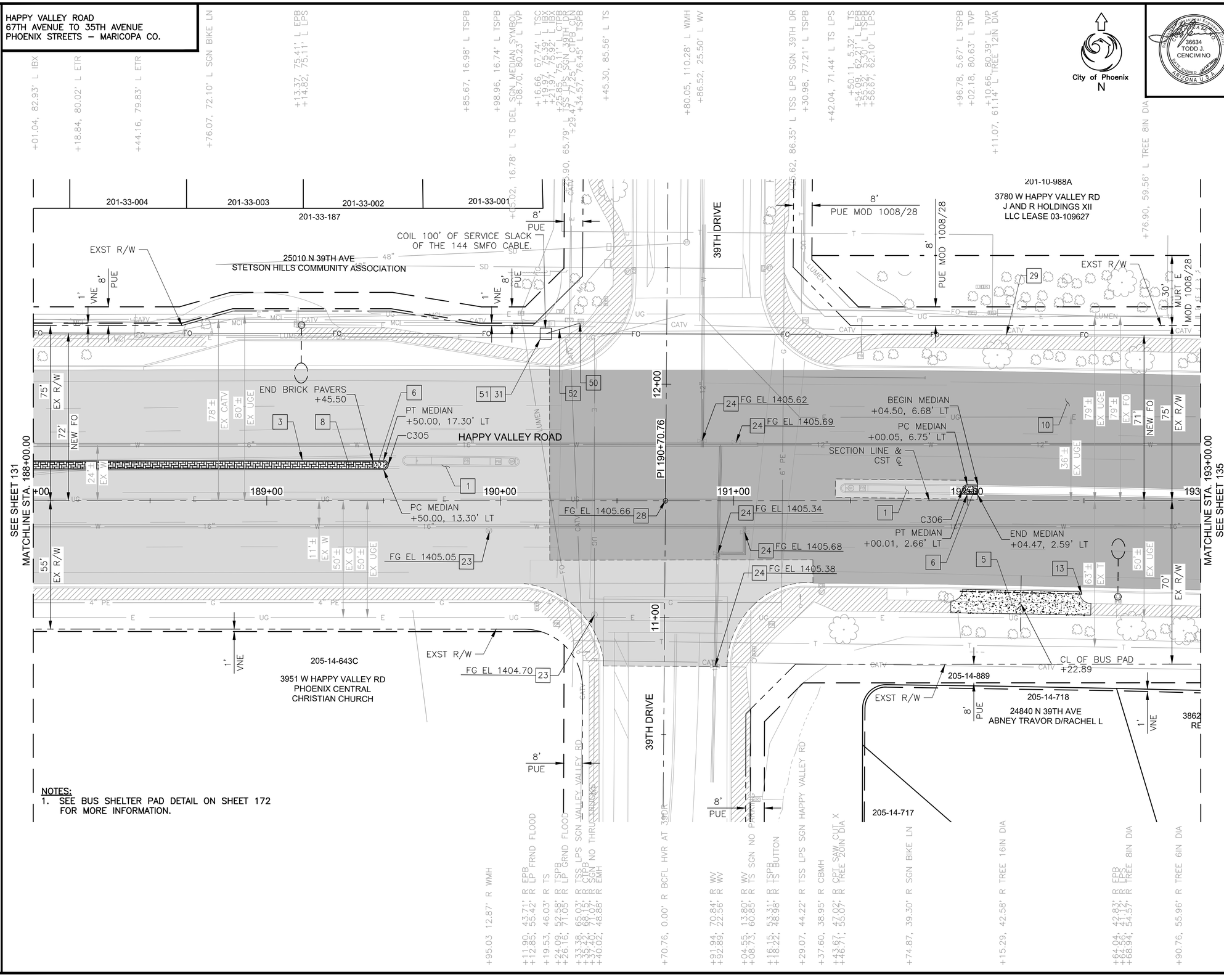
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.72
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			132 OF 364

SHEET NAME: ST85100437PRO36.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N



NOTES:
1. SEE BUS SHELTER PAD DETAIL ON SHEET 172 FOR MORE INFORMATION.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	133	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — ARIZONA U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	2630
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	218
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	725
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.75
	AGGREGATE BASE COURSE, 4" THICK	TON	572
	LIME TREATED SUBGRADE, 6" THICK	SY	2630
3	CONCRETE SINGLE CURB, MAG STD DET 222, TYPE A	LF	322
5	BUS SHELTER/ACCESSORY PAD COP STD DET P1262	SF	563
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	34
8	DECORATIVE BRICK PAVERS, MAG STD DET. 225	SF	447
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	216
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.87
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	52
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	2
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	5
28	ADJUST SURVEY MONUMENT HH FRAME & COVER, STD DET P1270	EA	1
29	FIBER OPTIC CONDUIT, PVC SCHEDULE 40, 2-1.25"	LF	550
31	FURNISH AND INSTALL COP NO. 9 FIBER OPTIC PULLBOX	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	650
50	FIBER OPTIC EQUIPMENT (CITY OF PHOENIX) (FIELD HARDENED ETHERNET SWITCH)	EA	1
51	FIBER OPTIC SPLICE CLOSURE (CITY OF PHOENIX)	EA	1
52	BREAK-AWAY CONNECTOR SYSTEM (WITH TAIL)	EA	1

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C305	6.283	2.000	180°00'00"
C306	6.424	2.045	180°00'00"

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

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ARIZONA811 Call 811 or click Arizona811.com

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.73
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			133 OF 364

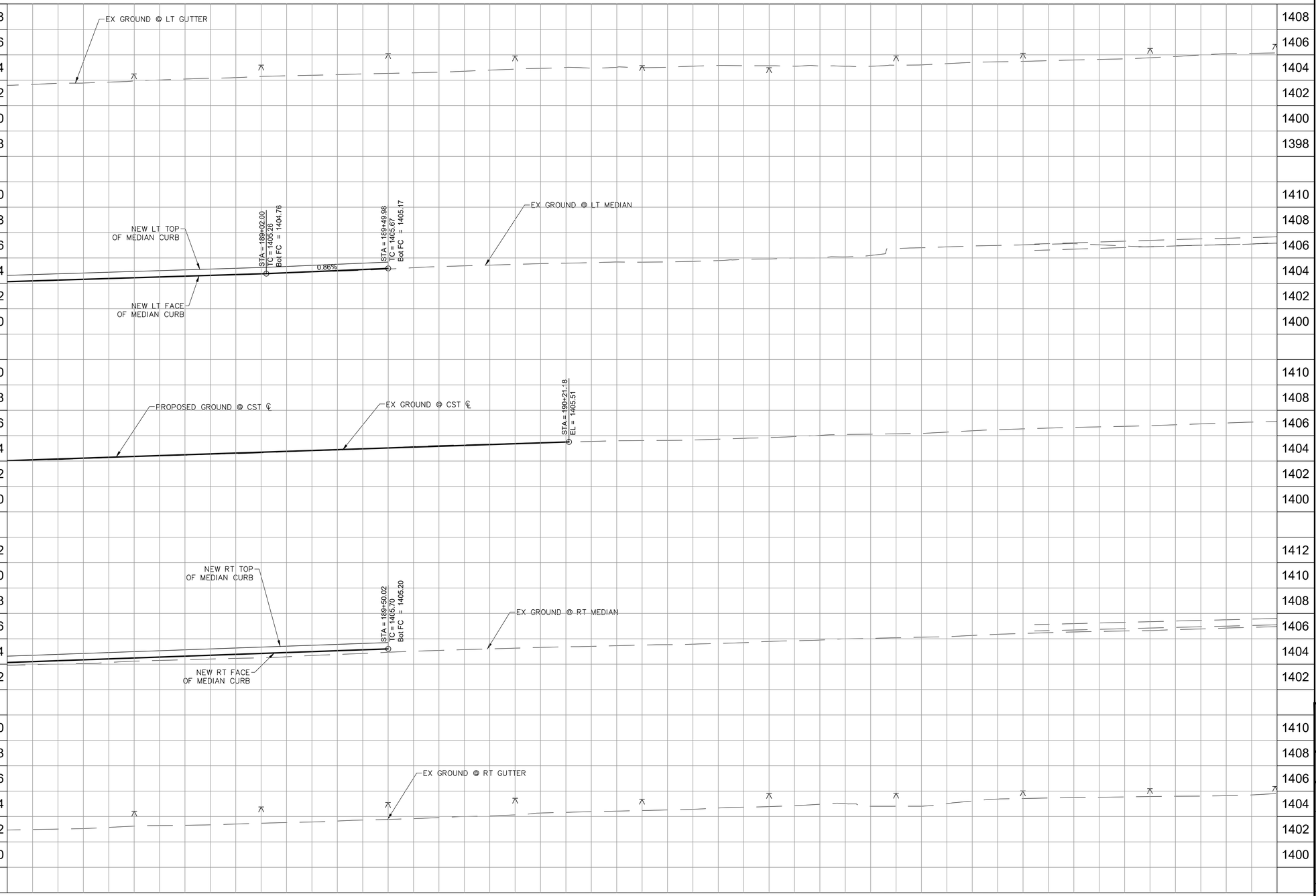
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437PL37.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
REGISTERED
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	134	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PROFILE

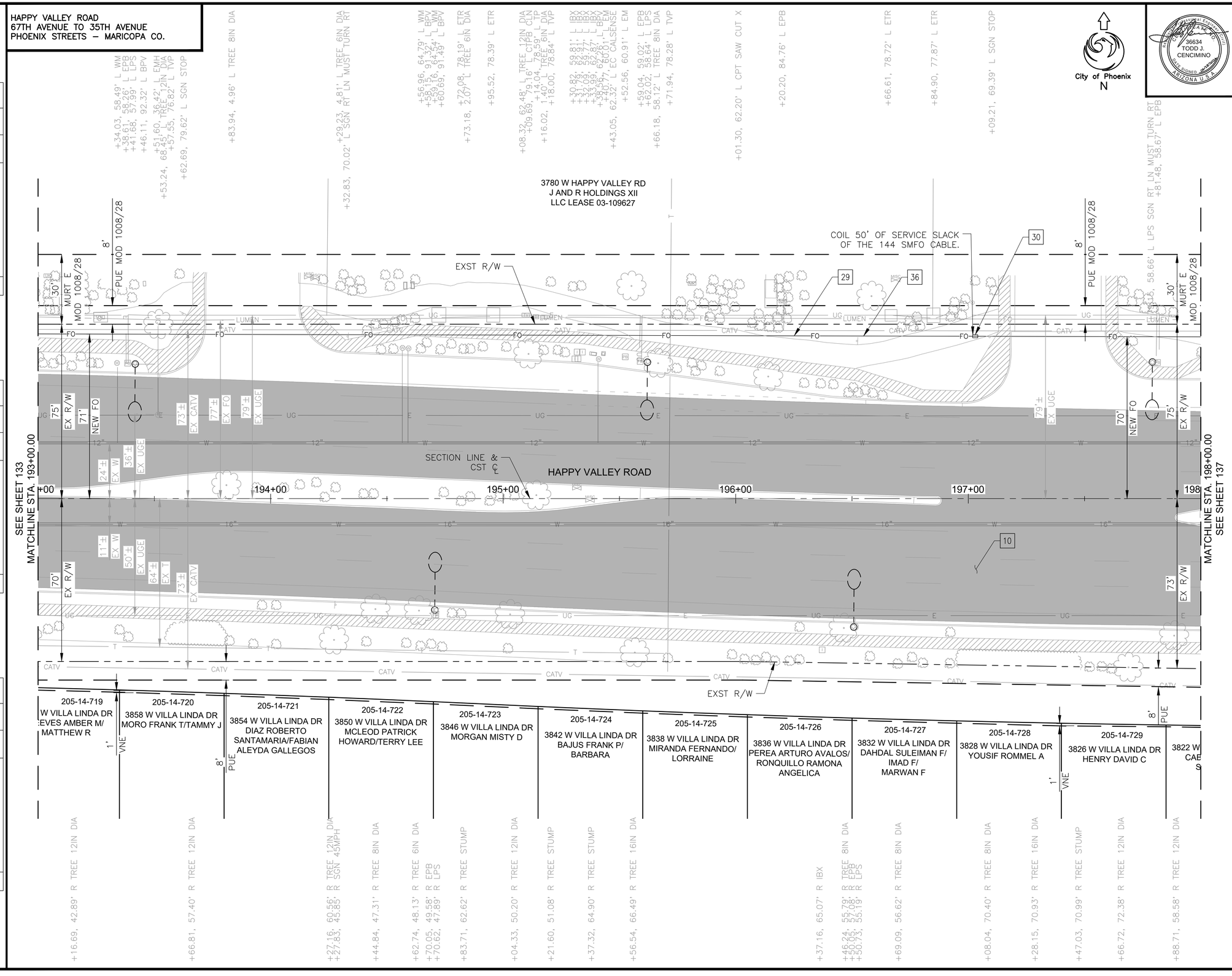
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.74
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			134 OF 364

SHEET NAME: ST85100437PRO37.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	135	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	392
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.58
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	600

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

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ARIZONA811 Call 811 or click Arizona811.com

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.75
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			135 OF 364

SHEET NAME: ST85100437PL38.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.

REVISION BY CITY OF PHOENIX

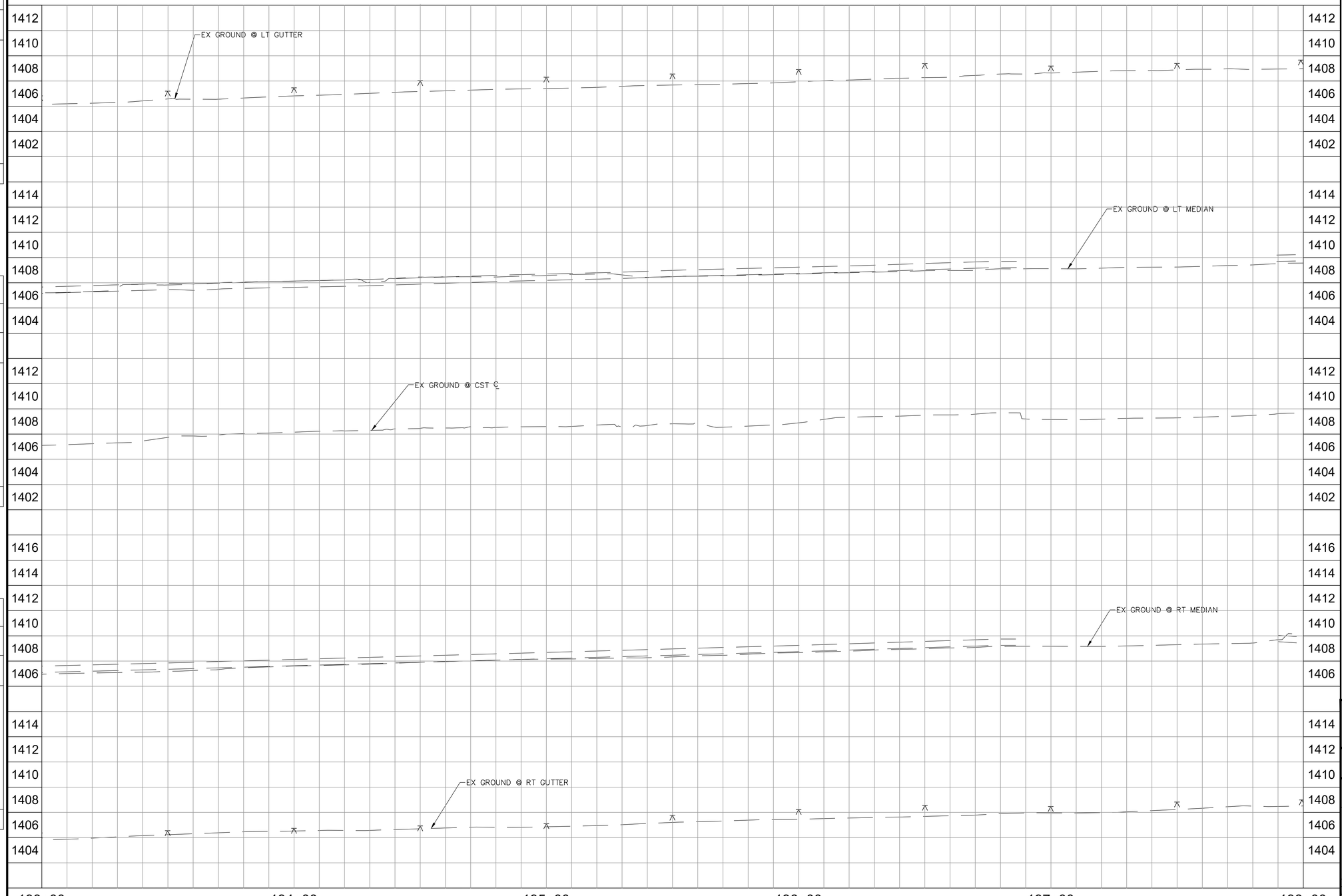
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	136	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

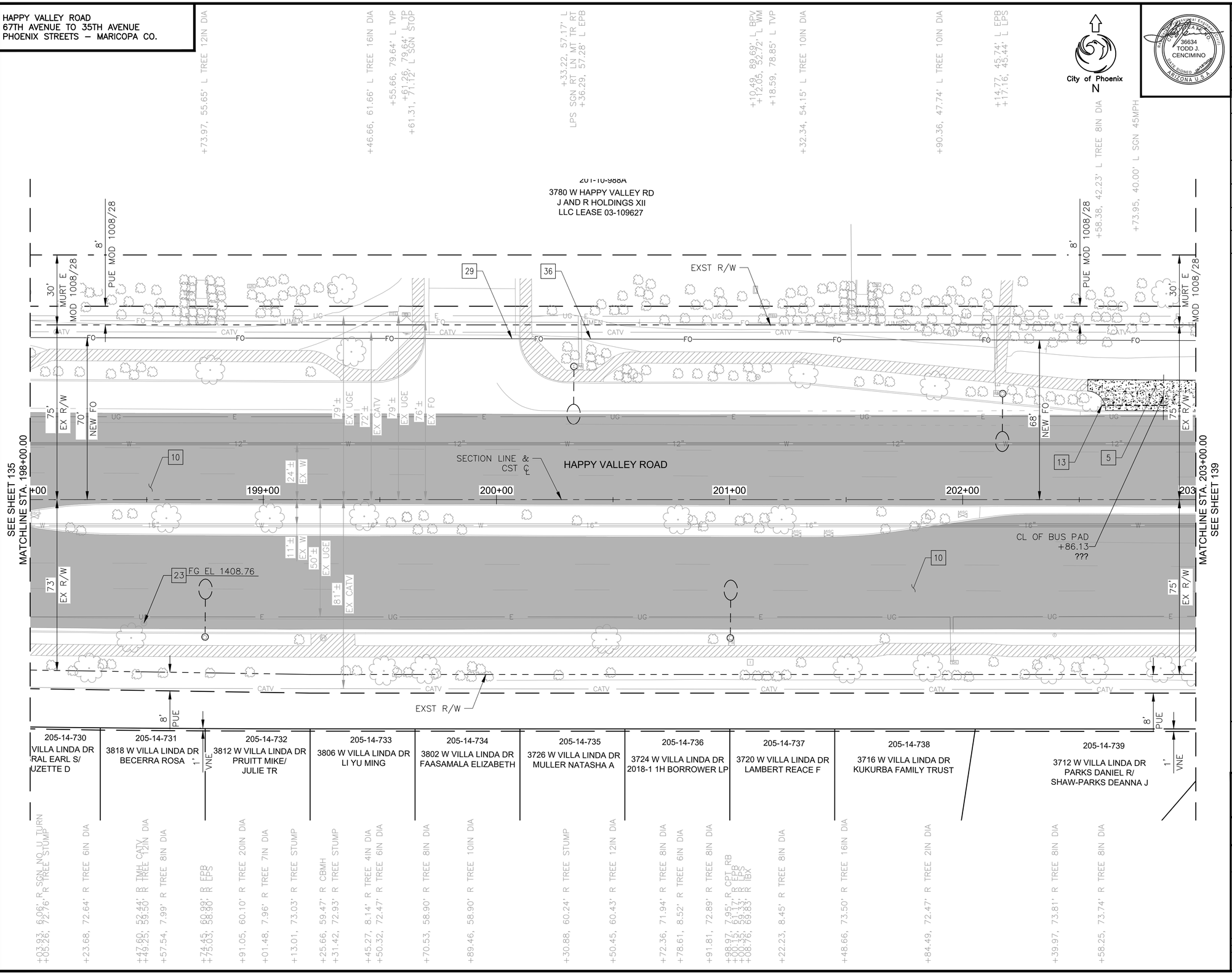
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DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			136 OF 364

SHEET NAME: ST85100437PRO38.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	137	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — REGISTERED LAND SURVEYOR — ARIZONA U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
5	BUS SHELTER/ACCESSORY PAD COP STD DET P1262	SF	566
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	371
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS–1H	TON	1.49
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	41
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	1
29	ELECTRICAL CONDUIT (2–1.25") (PVC)	LF	550
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	550

NOTES:
1. SEE BUS SHELTER PAD DETAIL ON SHEET 173 FOR MORE INFORMATION.

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

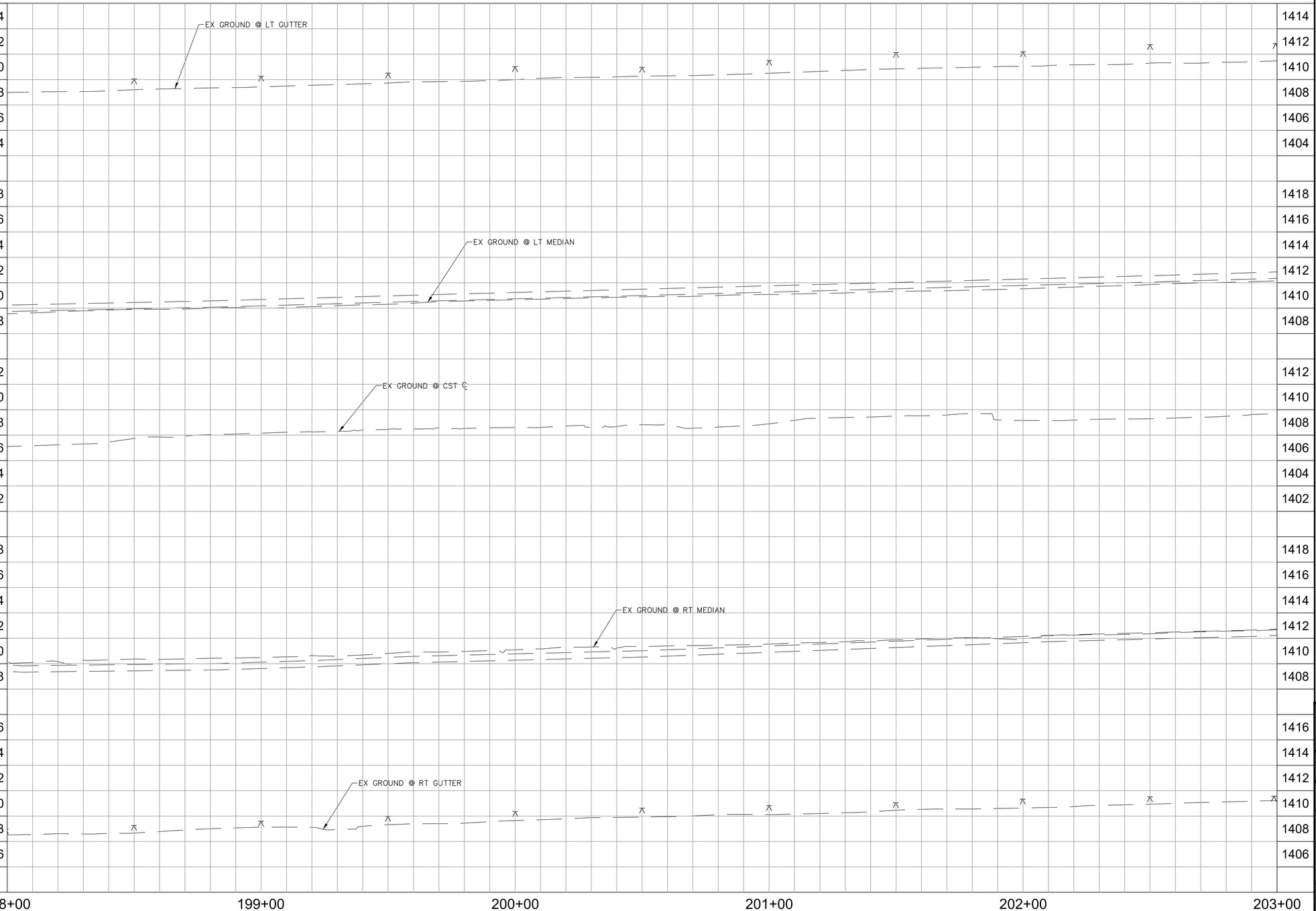
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P–2.77
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			137 OF 364

SHEET NAME: ST85100437PL39.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
REGISTERED
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	138	368	

05/2024
DATE:

WILSON & COMPANY 50 W. Liberty Street, Reno, Nevada 89501

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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ROADWAY PROFILE

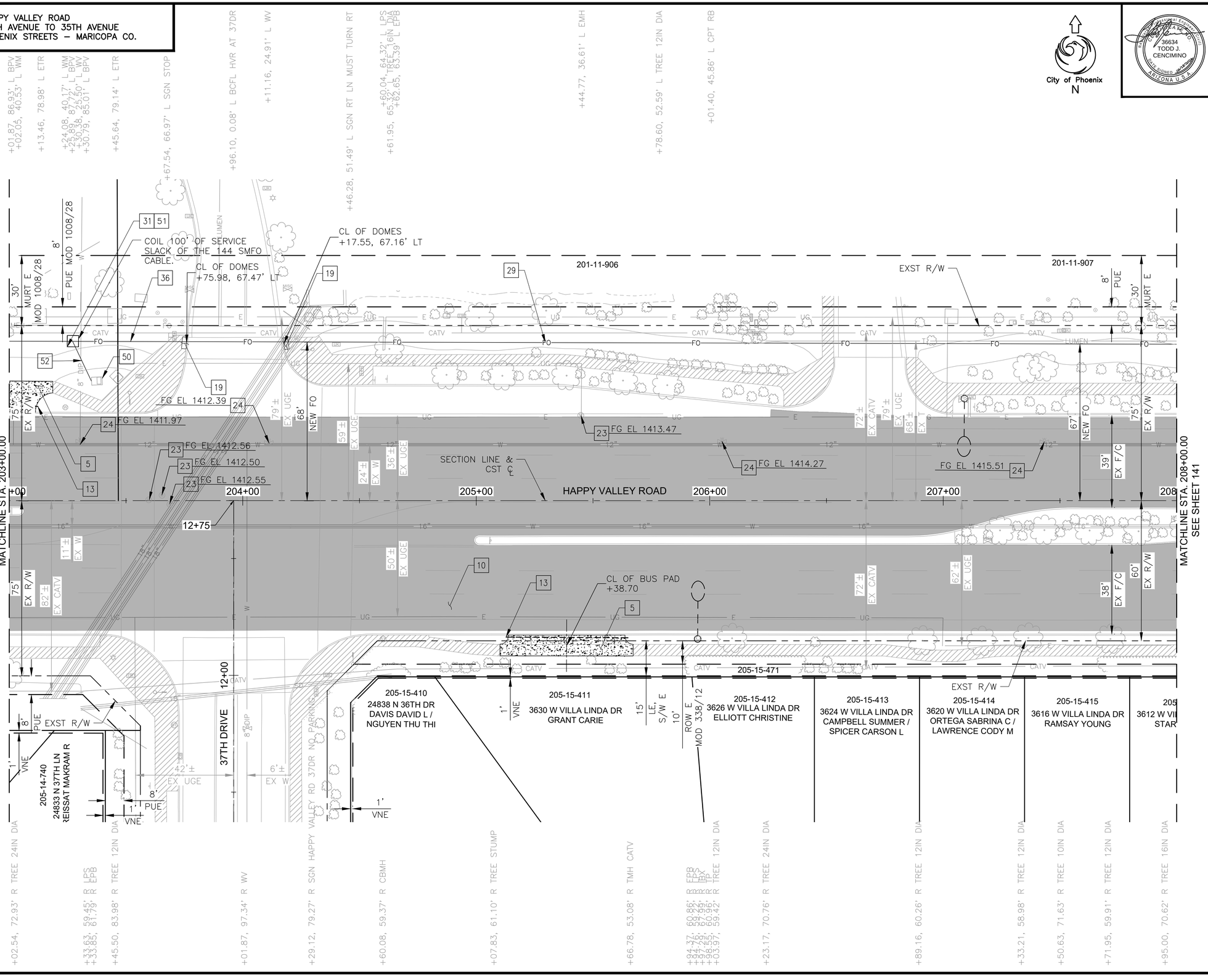
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.78
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			138 OF 364

SHEET NAME: ST85100437PRO39.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	139	368	

06/2024 DATE:

36634 TODD J. CENCIMINO REGISTERED LANDSCAPE ARCHITECT ARIZONA U.S.A.

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
5	BUS SHELTER/ACCESSORY PAD COP STD DET P1262	SF	686
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	400
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.61
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	63
19	TRUNCATED DOMES COP STD DET P1232	SF	20
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	4
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	4
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
31	PULLBOX (NO. 9) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	650
50	FIBER OPTIC EQUIPMENT (CITY OF PHOENIX) (FIELD HARDENED ETHERNET SWITCH)	EA	1
51	FIBER OPTIC SPLICE CLOSURE (CITY OF PHOENIX)	EA	1
52	BREAK-AWAY CONNECTOR SYSTEM (WITH TAIL)	EA	1

NOTES:
1. SEE BUS SHELTER PAD DETAIL ON SHEET 173 FOR MORE INFORMATION.

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

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ARIZONA811 Call 811 or click Arizona811.com

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.79
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			139 OF 364

SHEET NAME: ST85100437PL40.DWG, PLOT DATE: 6/18/2024

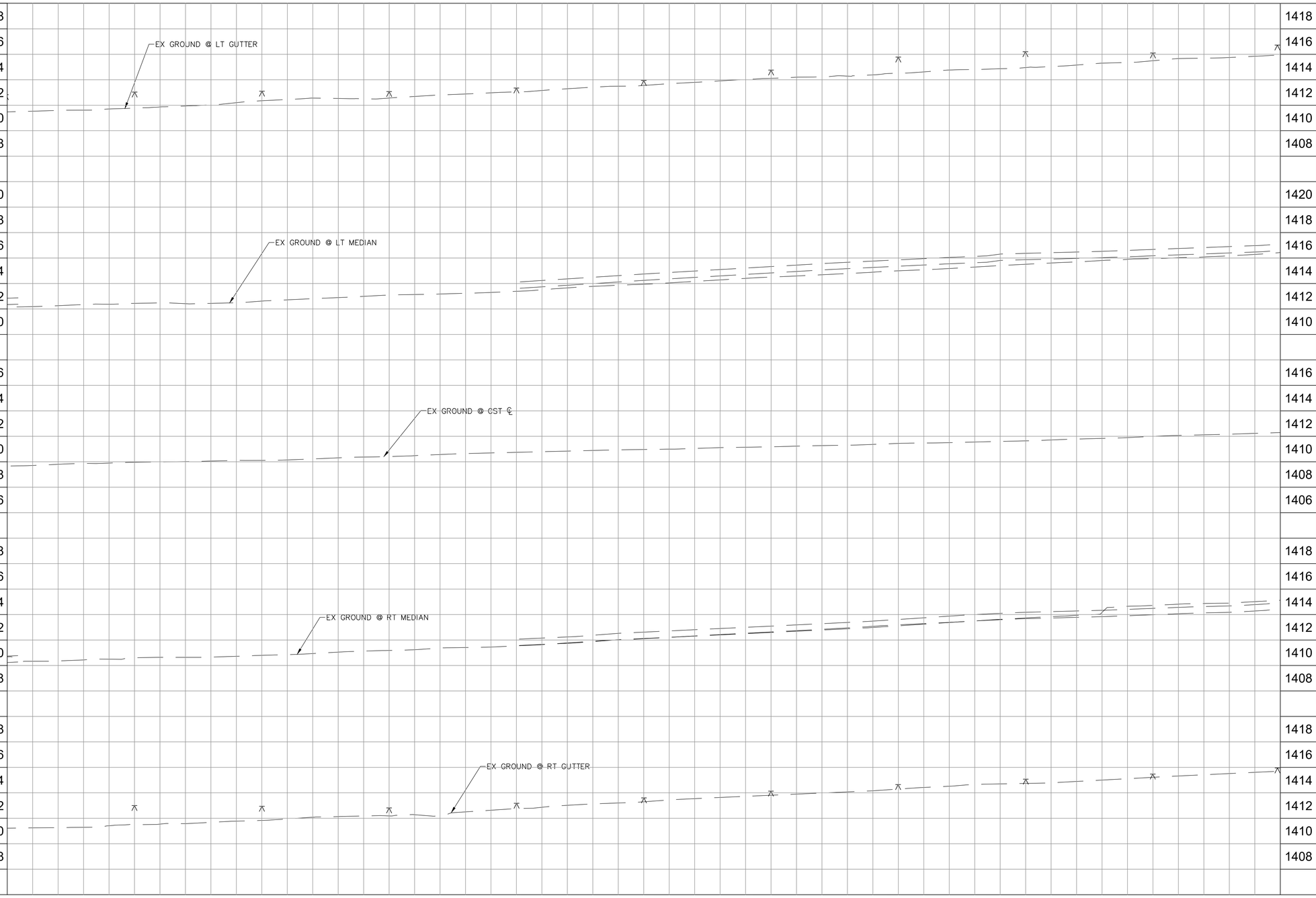
REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

REVISION BY CITY OF PHOENIX
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REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

ARIZONA U.S.A. 36634 TODD J. CENCIMINO REGISTERED PROFESSIONAL ENGINEER

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	140	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

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ROADWAY PROFILE

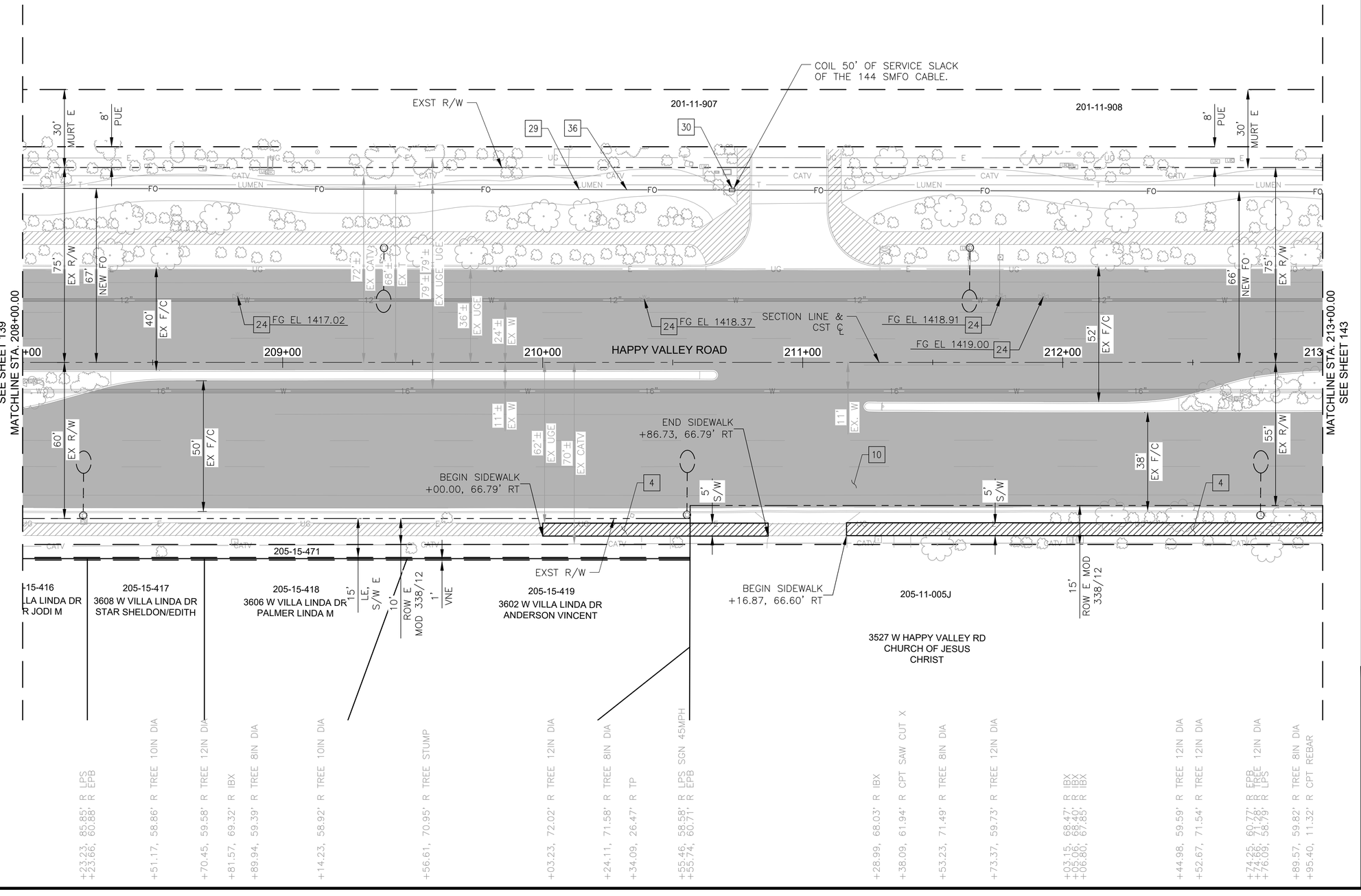
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.80
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			140 OF 364

SHEET NAME: ST85100437PRO40.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	141	368	

06/2024 DATE:

36634 TODD J. CENCIMINO REGISTERED LANDSCAPE ARCHITECT ARIZONA U.S.A.

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	1343
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	396
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.60
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	4
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	550
30	PULLBOX (NO. 8) (CITY OF PHOENIX)	EA	1
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	600

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.81
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			141 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

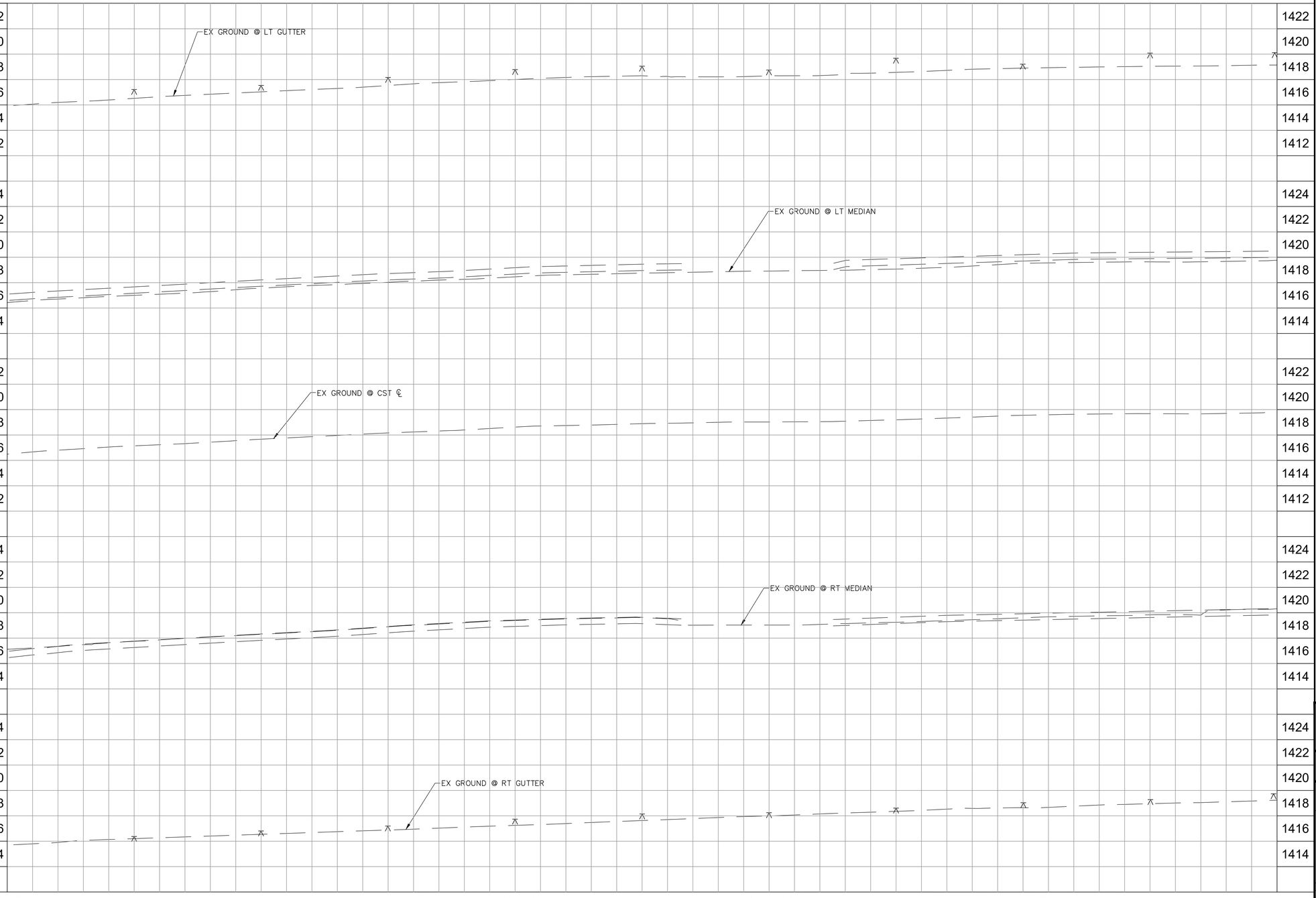
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437PL41.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

ARIZONA U.S.A. CERTIFIED ENGINEERING TECHNICIAN 36634 TODD J. CENCIMINO DATE SIGNED

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	142	368	

05/2024
DATE:

WILSON & COMPANY 2155 E. 17th Street, Phoenix, Arizona 85034

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

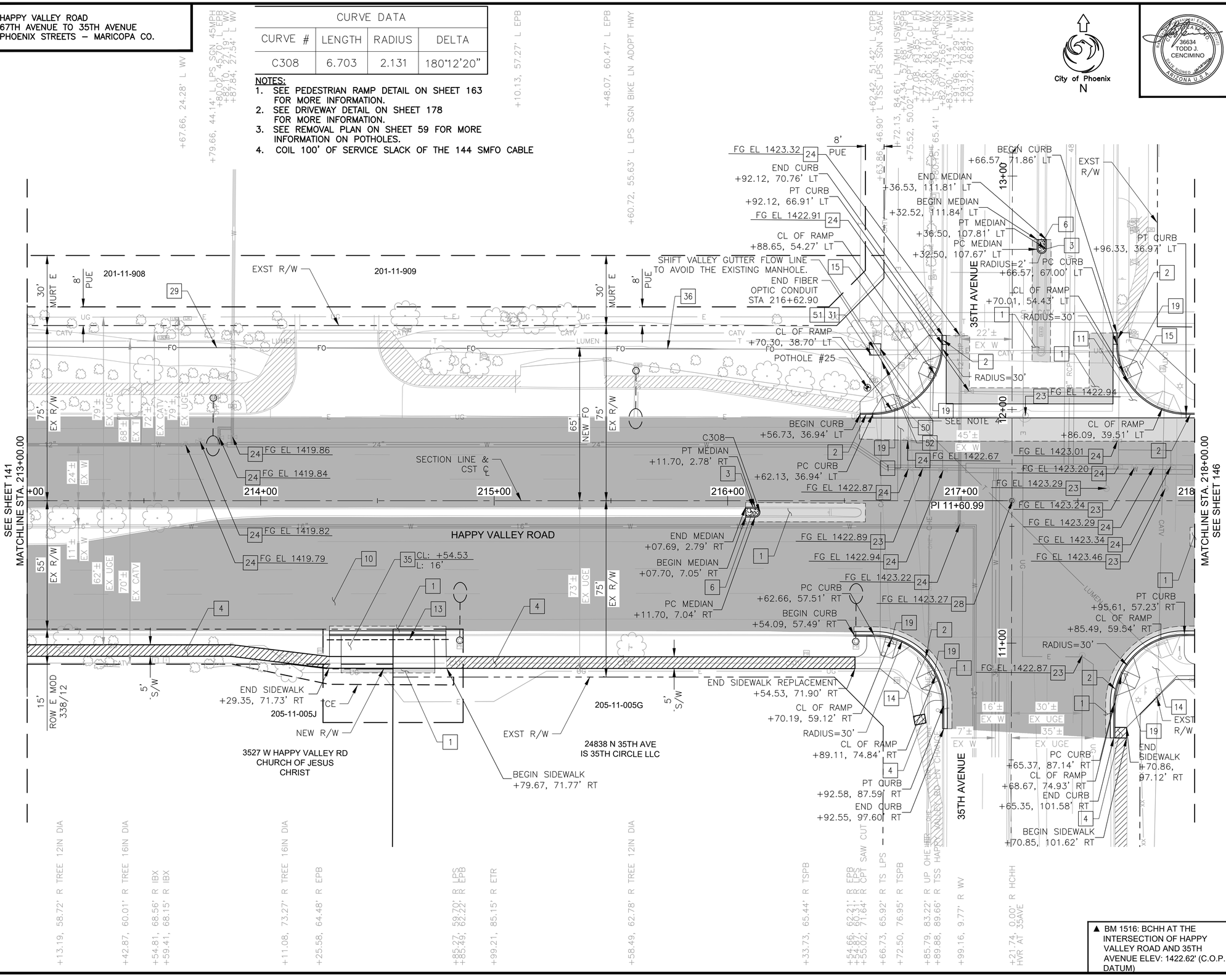
DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.82
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			142 OF 364

SHEET NAME: ST85100437PRO41.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C308	6.703	2.131	180°12'20"

NOTES:
1. SEE PEDESTRIAN RAMP DETAIL ON SHEET 163 FOR MORE INFORMATION.
2. SEE DRIVEWAY DETAIL ON SHEET 178 FOR MORE INFORMATION.
3. SEE REMOVAL PLAN ON SHEET 59 FOR MORE INFORMATION ON POTHOLES.
4. COIL 100' OF SERVICE SLACK OF THE 144 SMFO CABLE



▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

REVISION BY CITY OF PHOENIX				
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX				
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX				
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	143	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	392
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	42
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	108
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.37
	AGGREGATE BASE COURSE, 4" THICK	TON	85
	LIME TREATED SUBGRADE, 6" THICK	SY	392
2	CONCRETE CURB & GUTTER, MAG STD DET 220-1, TYPE A, H=6"	LF	152
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	30
4	CONCRETE SIDEWALK, COP STD DET P1230	SF	1572
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	34
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	413
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	1.67
11	CONCRETE VALLEY GUTTER/APRON MAG STD DET 240	SF	998
13	4" SCHEDULE 40 PVC IRRIGATION SLEEVE	LF	52
14	CONCRETE CURB RAMP, COP STD DET P1235	SF	1305
15	CONCRETE CURB RAMP, COP STD DET P1236	SF	1226
19	TRUNCATED DOMES, COP STD DET P1232	SF	80
23	ADJUST EX MANHOLE FRAME &, COVER,MAG STD DET 422 & P1430	EA	6
24	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	14
28	ADJUST SURVEY MONUMENT HH FRAME & COVER, STD DET P1270	EA	1
29	ELECTRICAL CONDUIT (2-1.25") (PVC)	LF	407
31	PULLBOX (NO. 9) (CITY OF PHOENIX)	EA	1
35	CONCRETE DRIVEWAY ENTRANCE, COP STD DET P1255-2	SF	700
36	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	LF	507
50	FIBER OPTIC EQUIPMENT (CITY OF PHOENIX) (FIELD HARDENED ETHERNET SWITCH)	EA	1
51	FIBER OPTIC SPLICE CLOSURE (CITY OF PHOENIX)	EA	1
52	BREAK-AWAY CONNECTOR SYSTEM (WITH TAIL)	EA	1

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

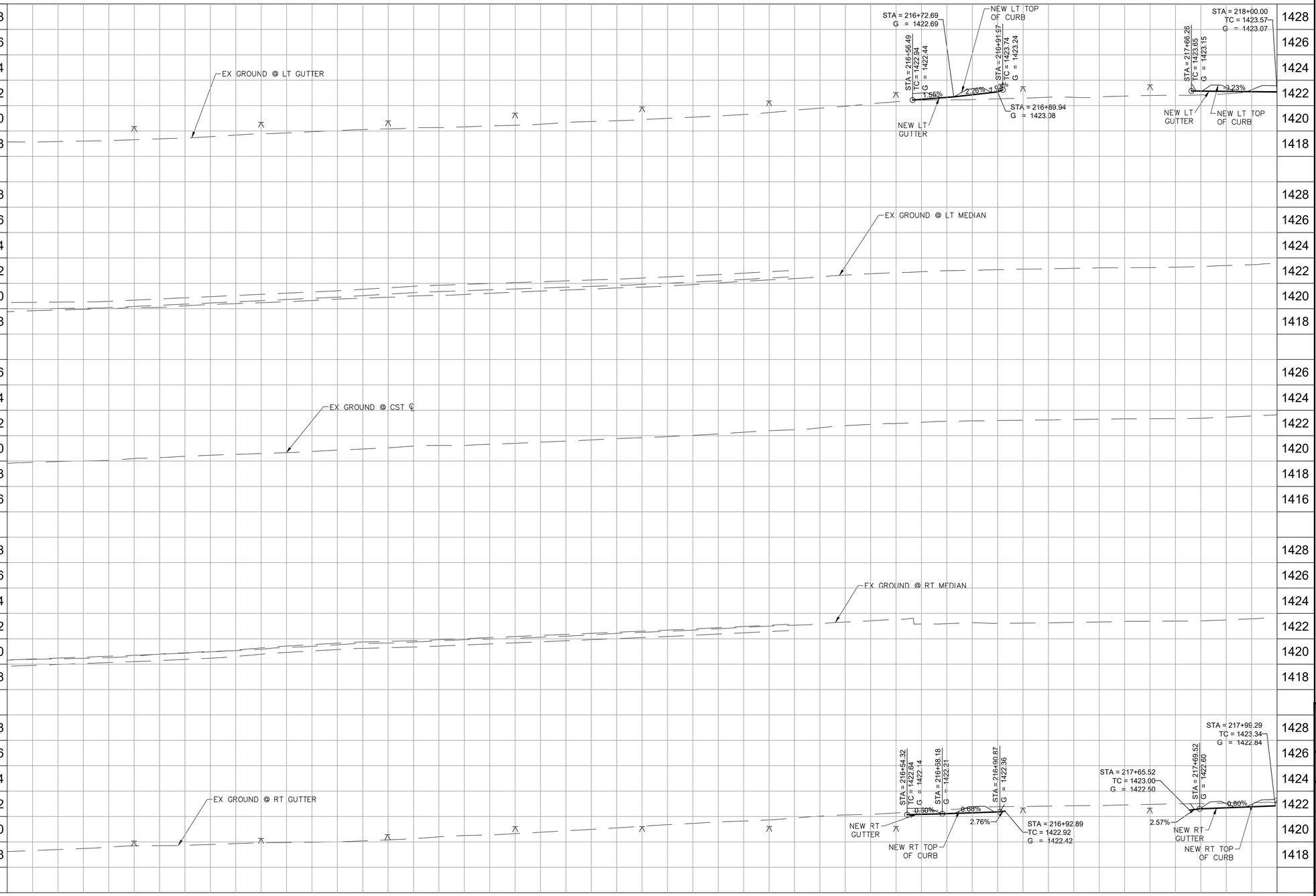
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.83
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			143 OF 364

SHEET NAME: ST85100437PL42.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
1. PROFILES OF CURBS NON PARALLEL TO HAPPY VALLEY ROAD ℄ ARE PROJECTIONS ONLY FOR DISPLAY. SEE DETAIL SHEETS FOR CURB RETURN ELEVATIONS, GRADES, AND STATIONS/OFFSETS.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

STATE OF ARIZONA · REGISTERED PROFESSIONAL ENGINEER · 36634 · TODD J. CENCIMINO · DATE SIGNED · ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	144	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

ROADWAY PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.84
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 4' VERTICAL			144 OF 364

SHEET NAME: ST85100437PRO42.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

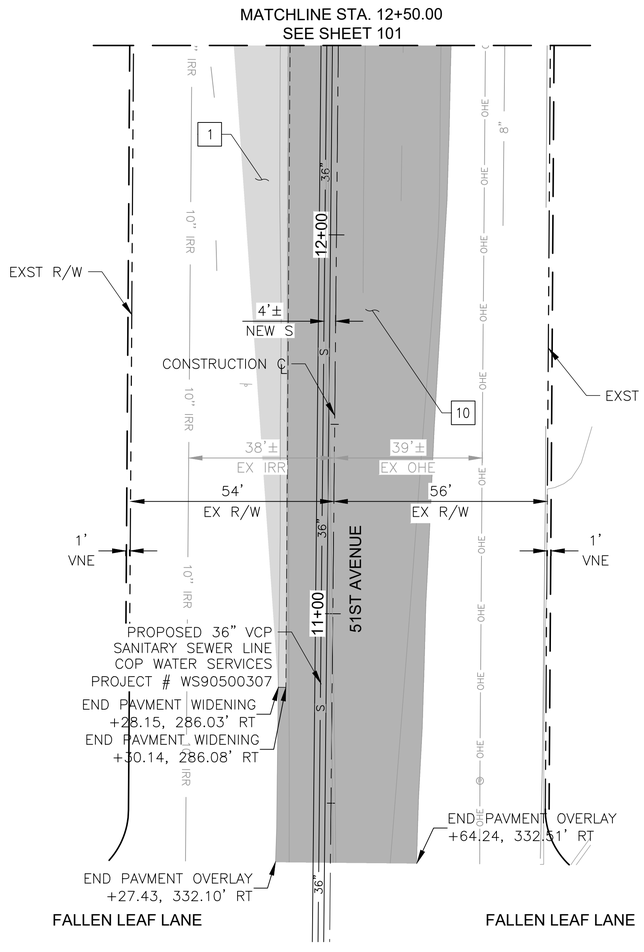
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



City of Phoenix
N



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	145	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	164
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	14
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	45
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.11
	AGGREGATE BASE COURSE, 4" THICK	TON	36
	LIME TREATED SUBGRADE, 6" THICK	SY	164
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	79
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.33

▲ C.O.P. BM 1481: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 51ST AVENUE ELEV: 1420.08' (C.O.P. DATUM)

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ROADWAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-2.85
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			145 OF 364

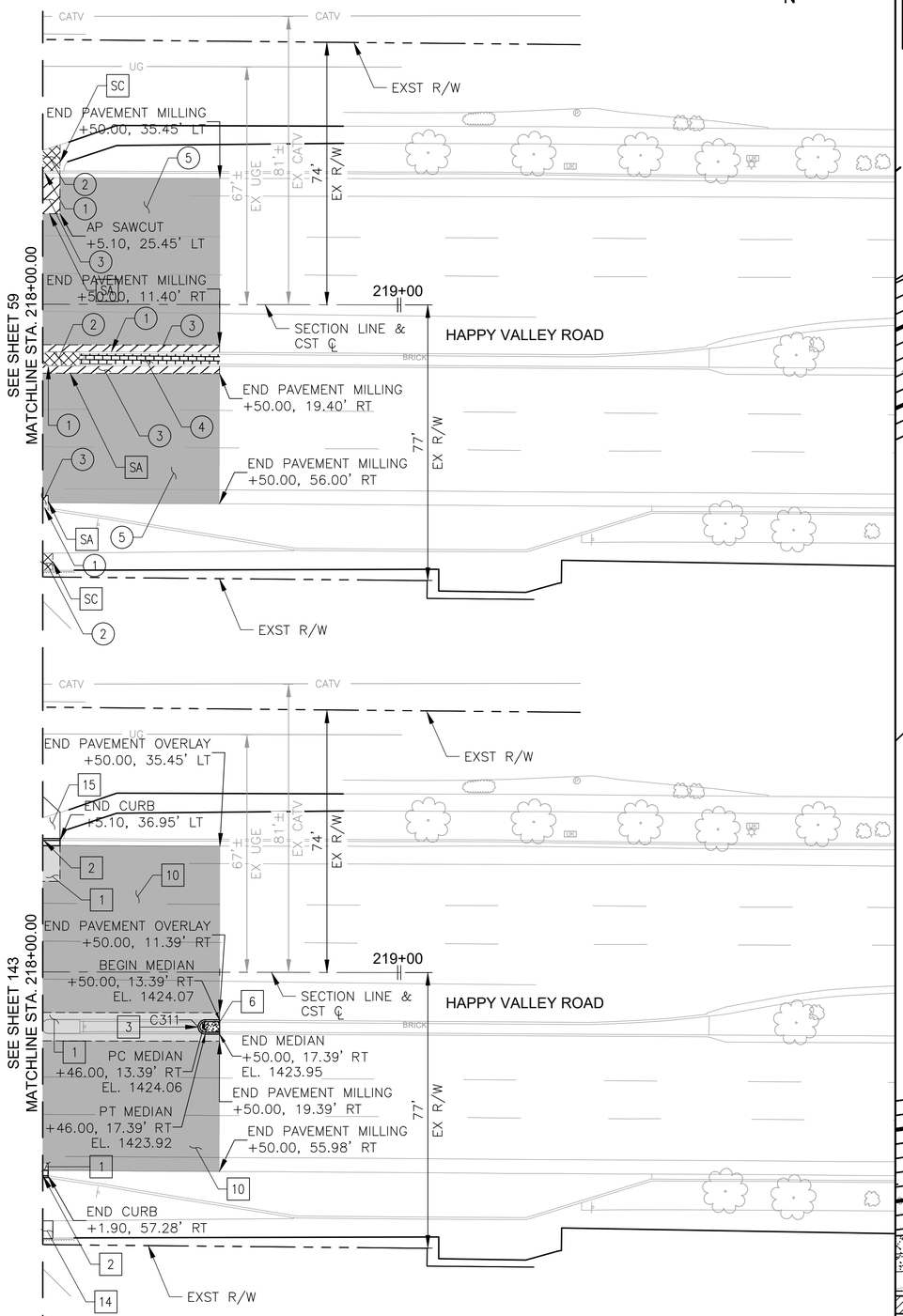
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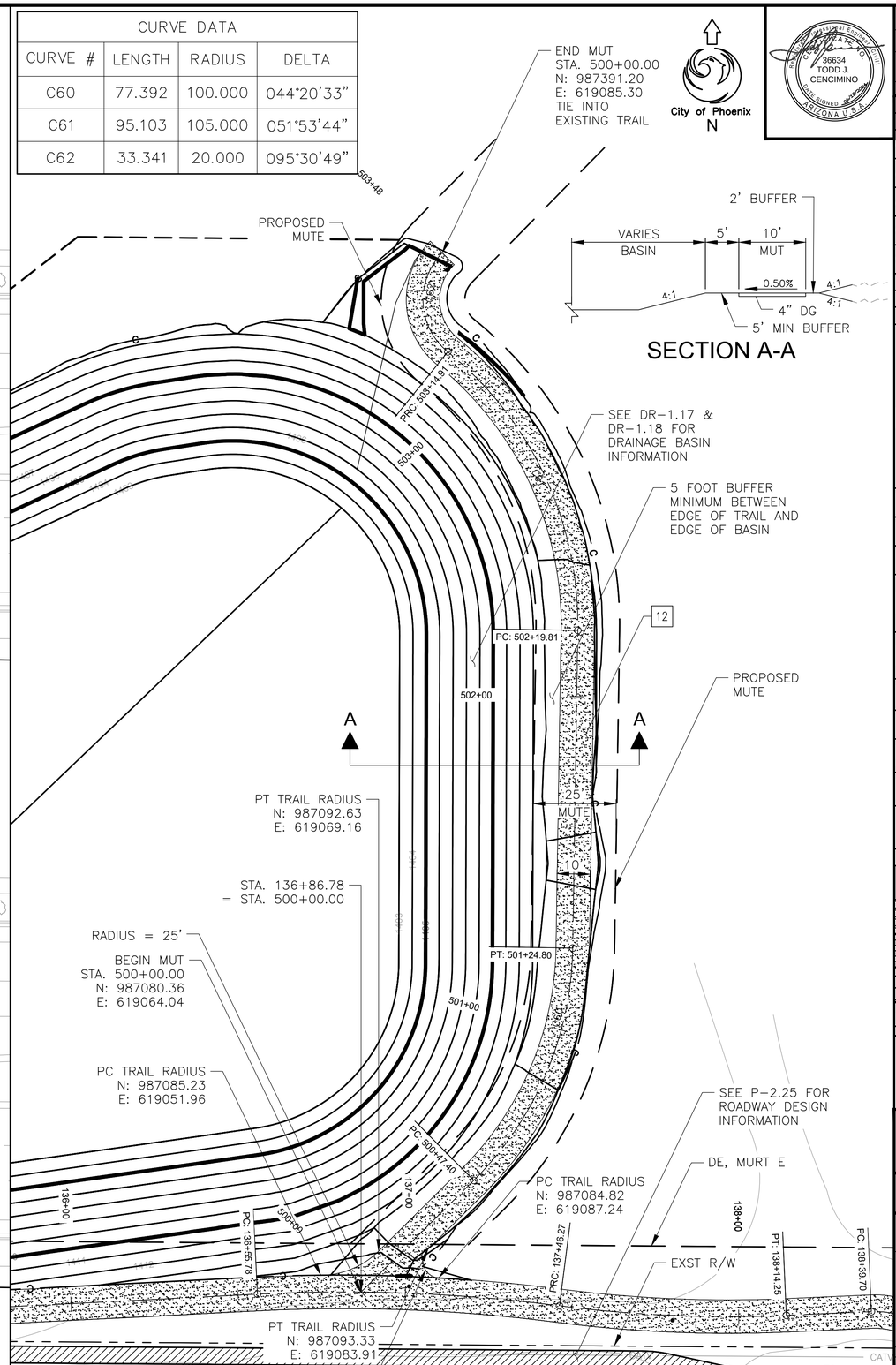
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C311	6.282	2.000	179°58'22"

CURVE DATA			
CURVE #	LENGTH	RADIUS	DELTA
C60	77.392	100.000	044°20'33"
C61	95.103	105.000	051°53'44"
C62	33.341	20.000	095°30'49"

City of Phoenix
N





SECTION A-A

City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	146	368	

06/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REMOVAL/RELOCATION

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PCC SINGLE CURB, CURB & GUTTER	LF	110
2	REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB	SF	88
3	REMOVE ASPHALT CONCRETE PAVEMENT	SY	28
4	REMOVE DECORATIVE BRICK PAVERS	SF	113
5	ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)	SY	458

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
	PAVEMENT STRUCTURAL SECTION NO. 1		
1	SUBGRADE PREPARATION	SY	48
	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	4
	ASPHALT CONCRETE BASE COURSE, TYPE C 3/4" MIX, 5" THICK	TON	13
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.03
	AGGREGATE BASE COURSE, 4" THICK	TON	10
	LIME TREATED SUBGRADE, 6" THICK	SY	48
2	CONCRETE CURB & GUTTER, MAG STD DET 220-1, TYPE A, H=6"	LF	7
3	CONCRETE SINGLE CURB MAG STD DET 222, TYPE A	LF	15
6	CONCRETE MEDIAN NOSE, MAG STD DET 223	SF	17
10	POLYMER MODIFIED AC SURFACE COURSE, 1.5" THICK	TON	38
	EMULSIFIED ASPHALT FOR TACK COAT, TYPE SS-1H	TON	0.15
12	DECOMPOSED GRANITE, STABILIZED FOR MULTIPURPOSE TRAIL, 1/4" MINUS, 4" THICK	SF	3445
14	CONCRETE CURB RAMP, COP STD DET P1235	SF	14
15	CONCRETE CURB RAMP, COP STD DET P1236	SF	47
SA	ASPHALT SAWCUTTING	LF	123
SC	CONCRETE SAWCUTTING	LF	14

LEGEND

- ASPHALT CONCRETE PAVEMENT MILLING (1.5" DEPTH)
- REMOVE PCC SIDEWALK, DRIVEWAY, VALLEY GUTTER & SLAB
- REMOVE DECORATIVE BRICK PAVERS
- REMOVE ASPHALT CONCRETE PAVEMENT
- CLEAR & GRUB

▲ BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

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ARIZONA811
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DETAIL SHEET

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. P-3.01
DATE: 06/24	DATE: 06/24	DATE: 06/24	
SCALE: 1" = 20' HORIZONTAL			146 OF 364

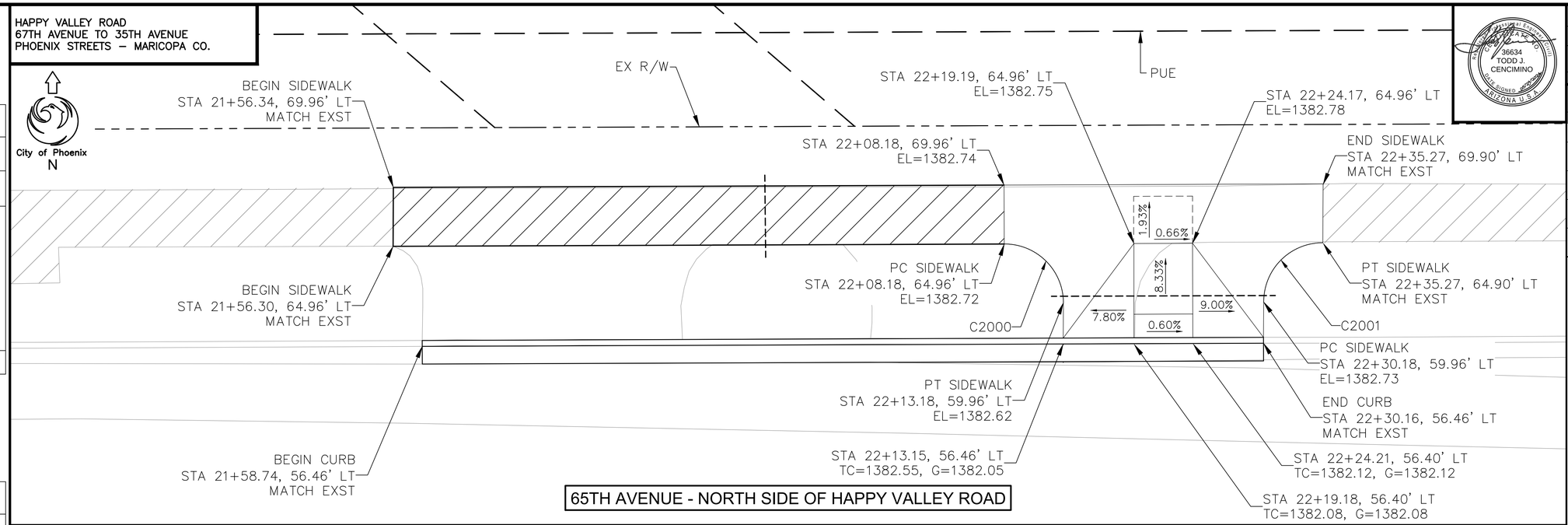
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

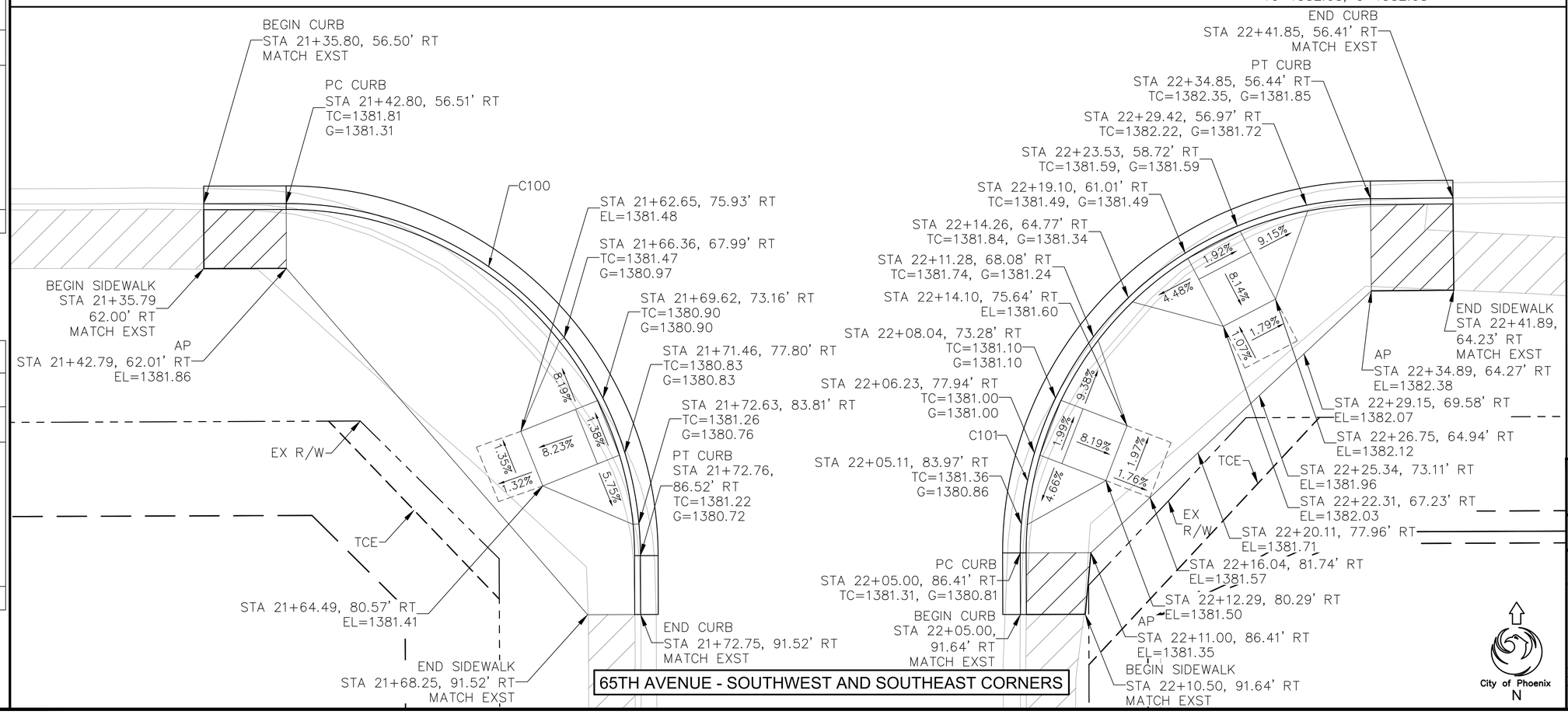
SHEET NAME: ST85100437C301.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N



65TH AVENUE - NORTH SIDE OF HAPPY VALLEY ROAD



65TH AVENUE - SOUTHWEST AND SOUTHEAST CORNERS

City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	147	368	

05/2024 DATE:

36634 TODD J. CENCIMINO REGISTERED ARIZONA U.S.A.

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C100	47.086	30.000	089°55'41"
C101	46.934	30.000	089°38'14"
C2000	7.853	5.000	089°59'38"
C2001	7.897	5.000	090°29'21"

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PEDESTRIAN RAMP DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-1.01
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			147 OF 364

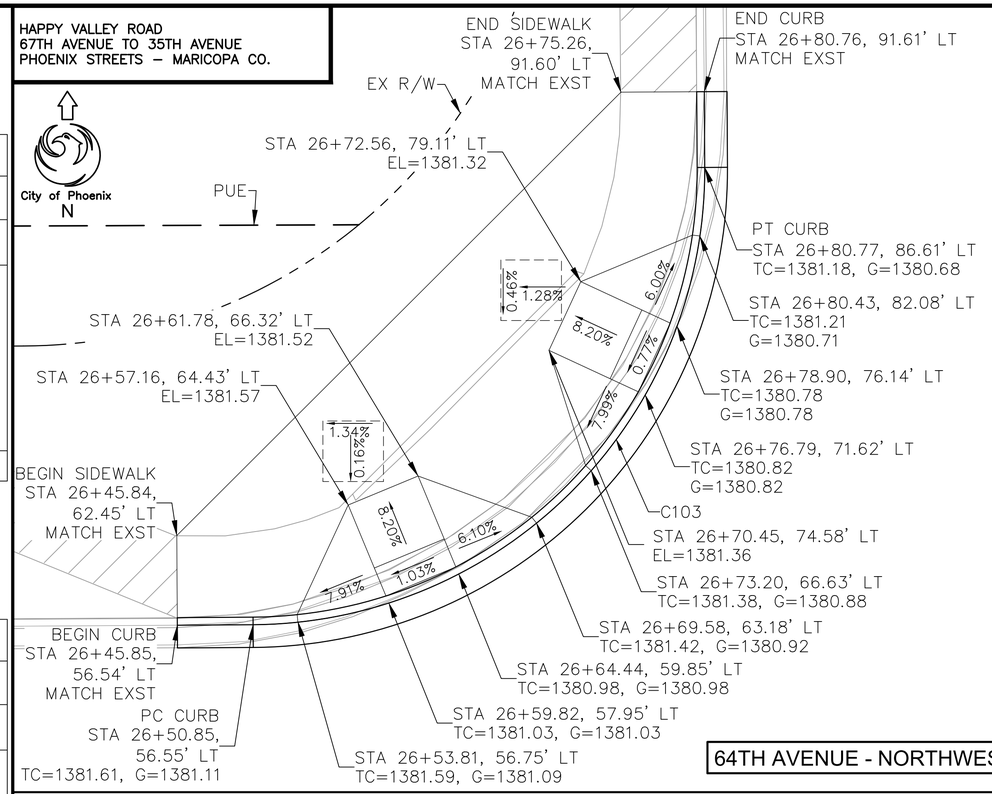
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

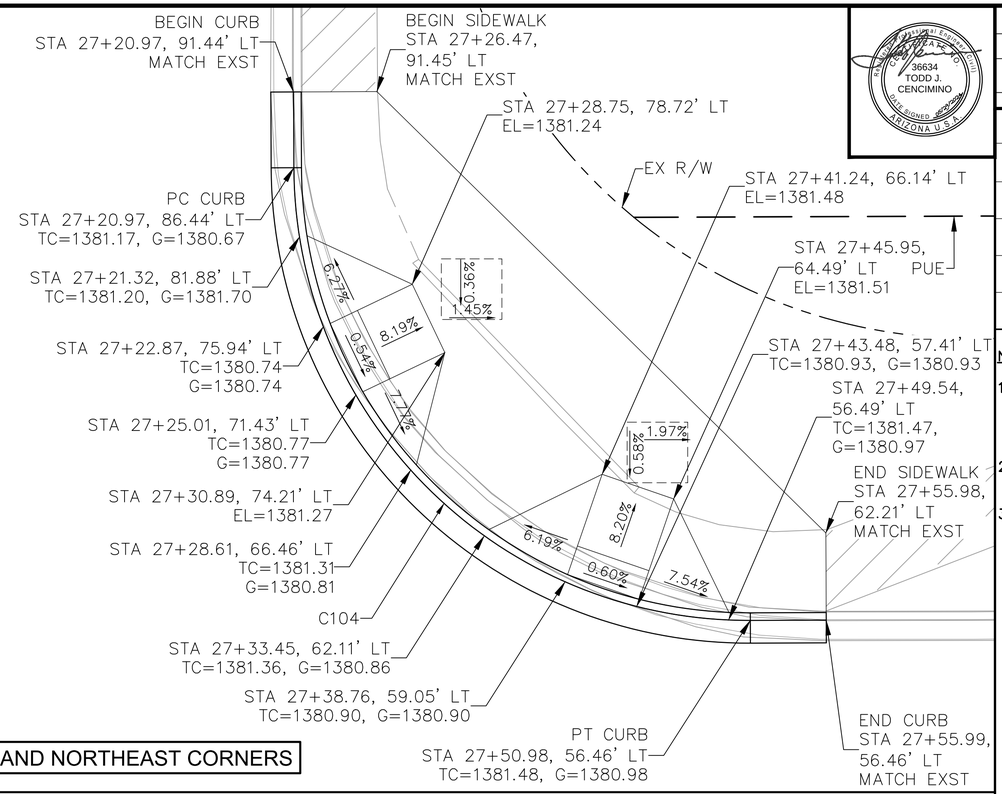
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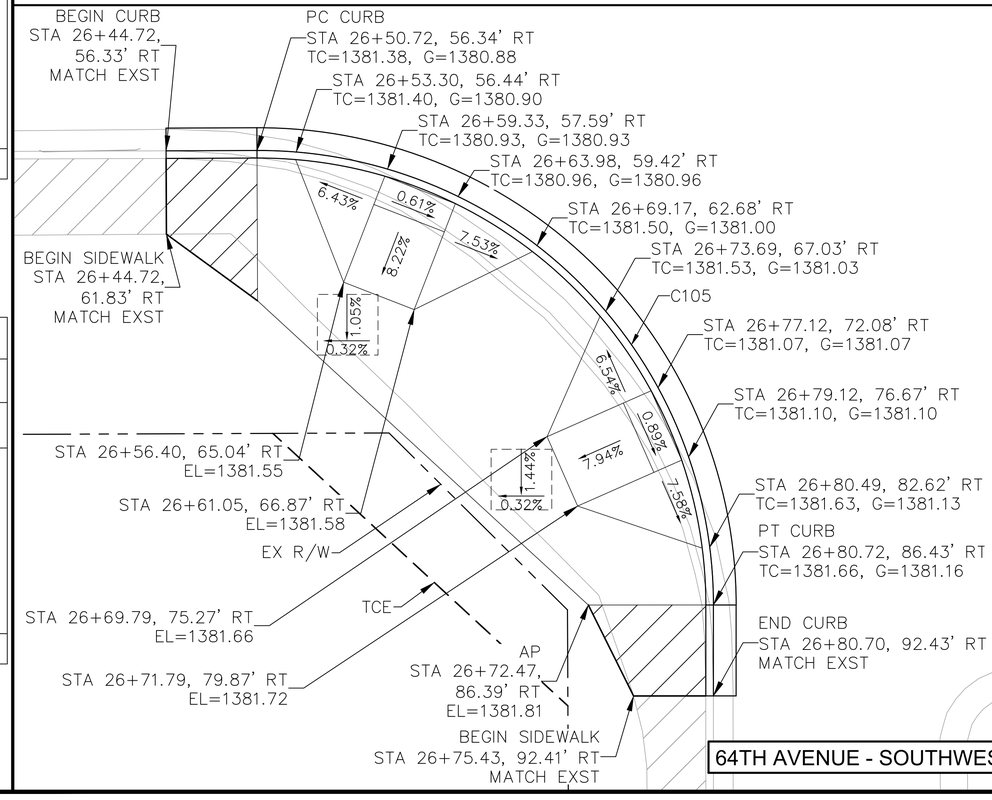
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N

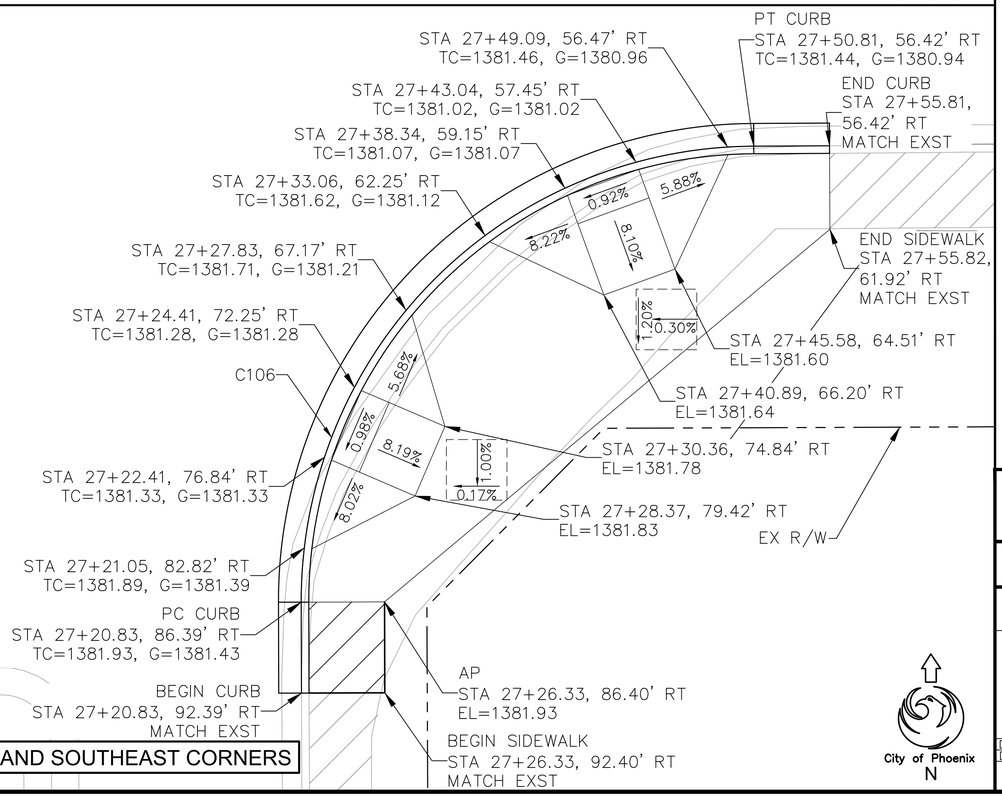


64TH AVENUE - NORTHWEST AND NORTHEAST CORNERS





64TH AVENUE - SOUTHWEST AND SOUTHEAST CORNERS



City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	148	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C103	47.103	30.000	089°57'38"
C104	47.119	30.000	089°59'28"
C105	47.230	30.000	090°12'10"
C106	47.075	30.000	089°54'20"

NOTES:

1. THE CONTRACTOR SHALL LAYOUT ALL ADA RAMPS, JUNCTION BOXES, AND FOUNDATION LOCATIONS FOR APPROVAL BY A TRAFFIC SIGNAL REPRESENTATIVE.
2. CONTRACTOR MUST HAVE A VISIBLE BLUESTAKE SHOWING ALL UTILITIES.
3. ALL ADA RAMPS SHALL BE LAID OUT IN WHITE MARKING PAINT TO DETERMINE BEST TRAFFIC SIGNAL POLE LOCATIONS.

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PEDESTRIAN RAMP DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-1.02
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			148 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

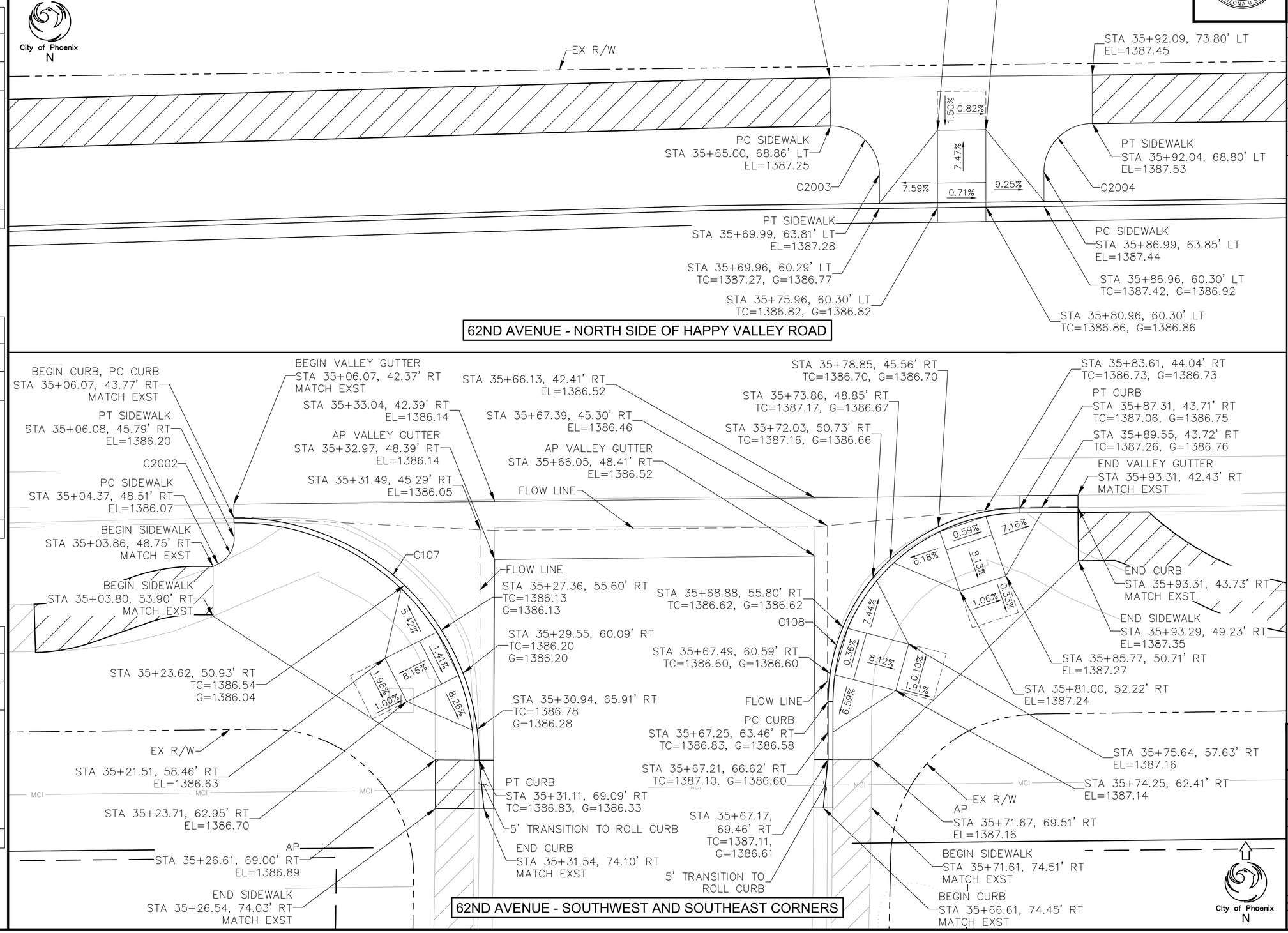
SHEET NAME: ST85100437C102.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



62ND AVENUE - NORTH SIDE OF HAPPY VALLEY ROAD

62ND AVENUE - SOUTHWEST AND SOUTHEAST CORNERS

City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	149	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C107	39.621	25.000	090°48'20"
C108	31.221	20.000	089°26'30"
C2002	3.379	3.000	064°32'23"
C2003	7.896	5.000	090°28'35"
C2004	7.854	5.000	090°00'09"

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

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PEDESTRIAN RAMP DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

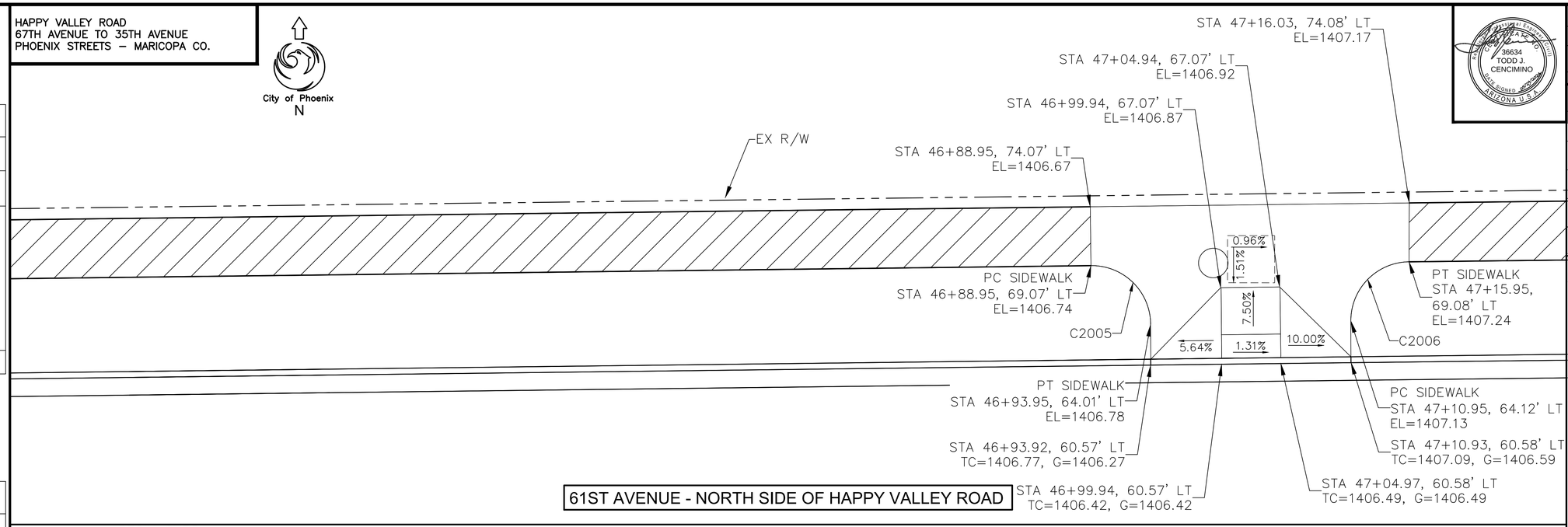
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

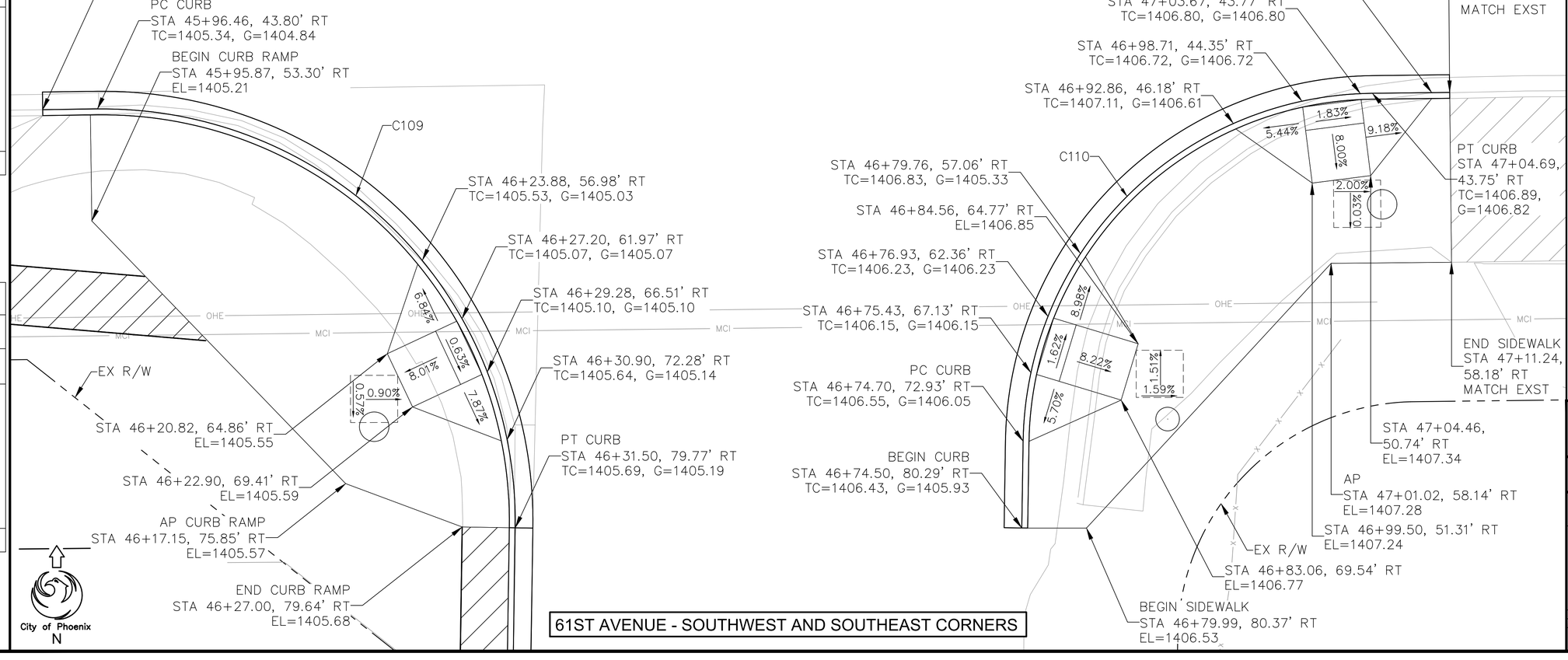
DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-1.03
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			149 OF 364

SHEET NAME: ST85100437C103.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	150	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C109	55.998	35.000	091°40'10"
C110	46.308	30.000	088°26'31"
C2005	7.896	5.000	090°28'35"
C2006	7.813	5.000	089°31'46"

NOTES:

1. THE CONTRACTOR SHALL LAYOUT ALL ADA RAMPS, JUNCTION BOXES, AND FOUNDATION LOCATIONS FOR APPROVAL BY A TRAFFIC SIGNAL REPRESENTATIVE.
2. CONTRACTOR MUST HAVE A VISIBLE BLUESTAKE SHOWING ALL UTILITIES.
3. ALL ADA RAMPS SHALL BE LAID OUT IN WHITE MARKING PAINT TO DETERMINE BEST TRAFFIC SIGNAL POLE LOCATIONS.

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ARIZONA811
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PEDESTRIAN RAMP DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-1.04
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			150 OF 364

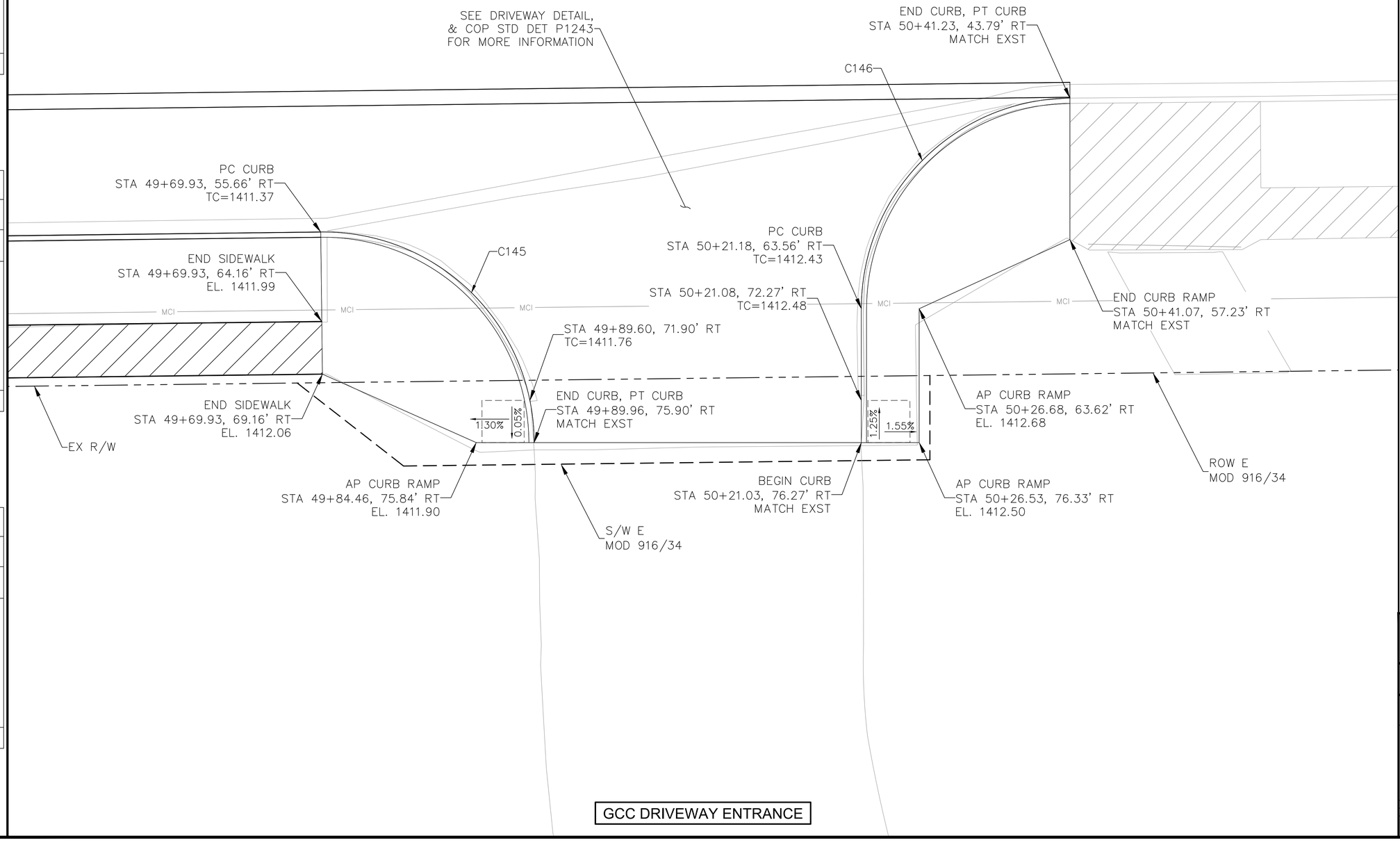
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437C104.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N



GCC DRIVEWAY ENTRANCE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	151	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C145	31.686	20.000	090°46'26"
C146	31.230	20.000	089°28'05"

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

PEDESTRIAN RAMP DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

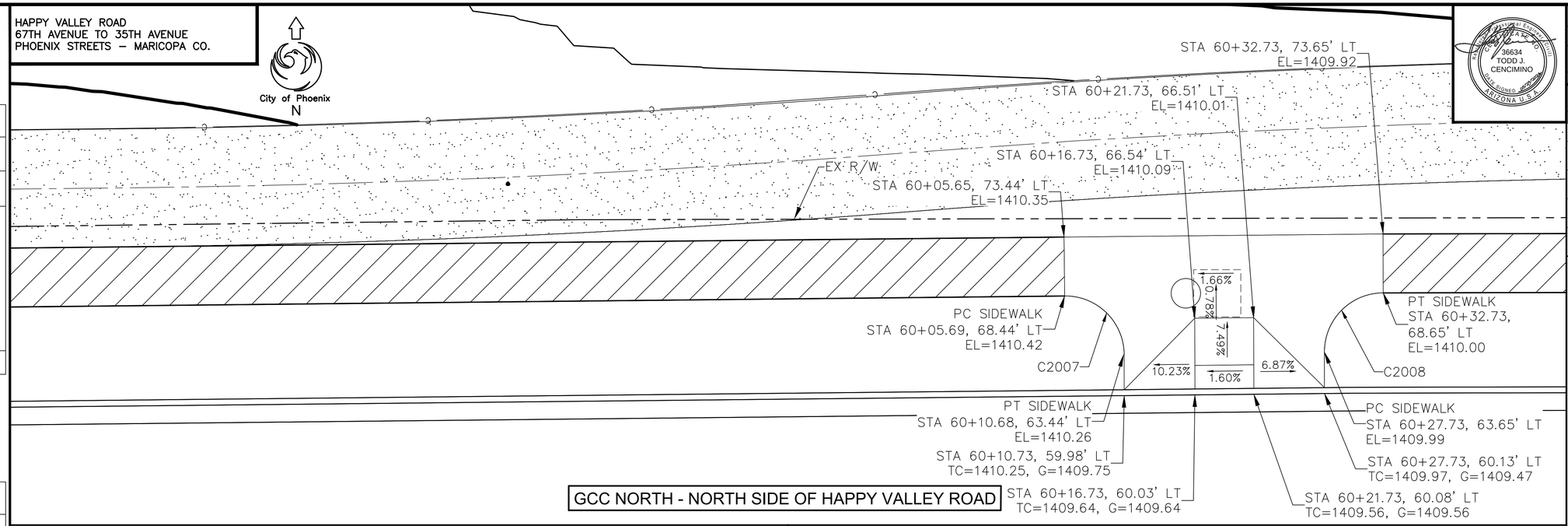
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-1.05
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			151 OF 364

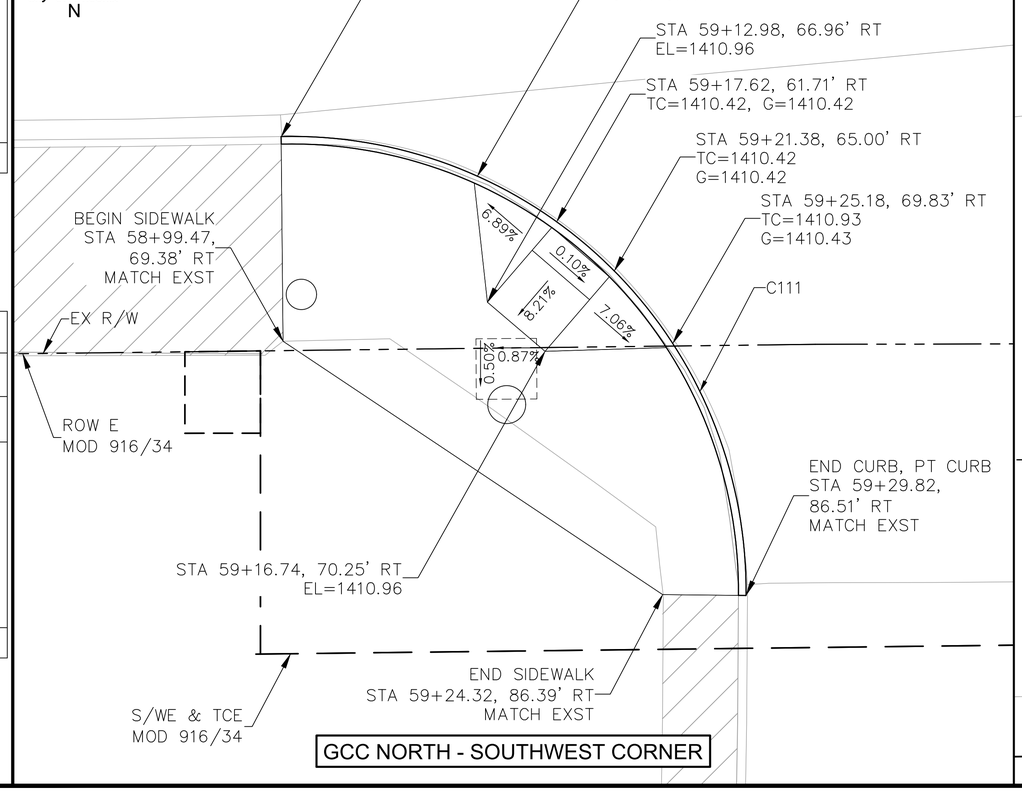
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HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

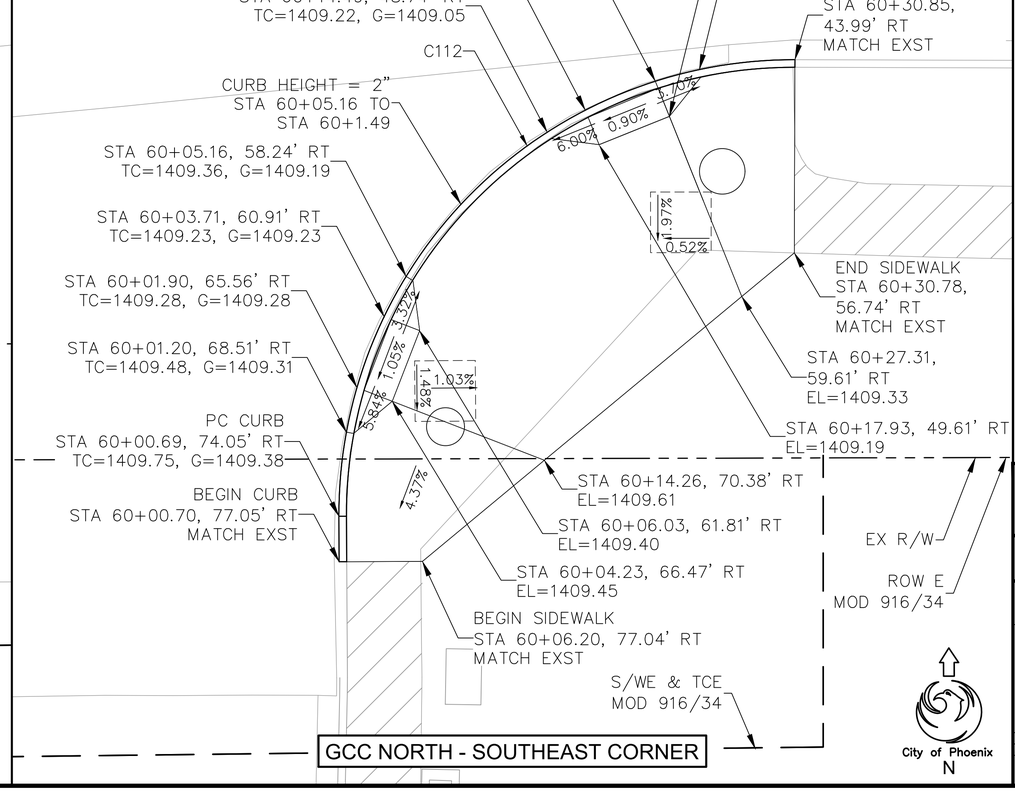
City of Phoenix
N



GCC NORTH - NORTH SIDE OF HAPPY VALLEY ROAD



GCC NORTH - SOUTHWEST CORNER



GCC NORTH - SOUTHEAST CORNER

City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	152	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C111	48.098	30.000	091°51'38"
C112	47.345	30.000	090°25'17"
C2007	7.896	5.000	090°28'35"
C2008	7.854	5.000	090°00'05"

NOTES:

1. THE CONTRACTOR SHALL LAYOUT ALL ADA RAMPS, JUNCTION BOXES, AND FOUNDATION LOCATIONS FOR APPROVAL BY A TRAFFIC SIGNAL REPRESENTATIVE.
2. CONTRACTOR MUST HAVE A VISIBLE BLUESTAKE SHOWING ALL UTILITIES.
3. ALL ADA RAMPS SHALL BE LAID OUT IN WHITE MARKING PAINT TO DETERMINE BEST TRAFFIC SIGNAL POLE LOCATIONS.

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ARIZONA811
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PEDESTRIAN RAMP DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

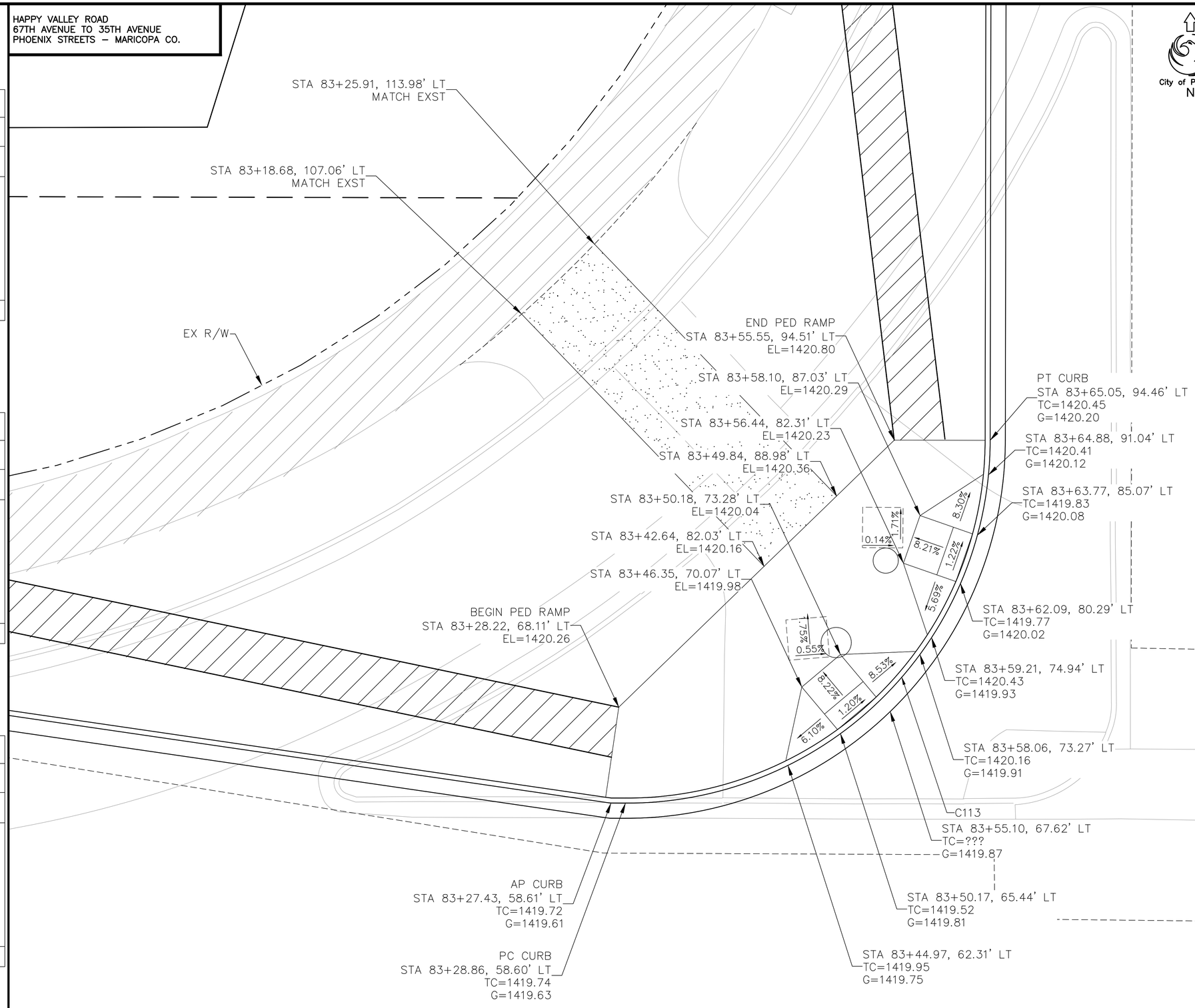
DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-1.06
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			152 OF 364

SHEET NAME: ST85100437C105.DWG, PLOT DATE: 5/28/2024

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



55TH AVENUE - NORTHWEST CORNER

City of Phoenix
N

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	153	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C113	56.601	36.000	090°05'02"

NOTES:

1. THE CONTRACTOR SHALL LAYOUT ALL ADA RAMPS, JUNCTION BOXES, AND FOUNDATION LOCATIONS FOR APPROVAL BY A TRAFFIC SIGNAL REPRESENTATIVE.
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PEDESTRIAN RAMP DETAIL

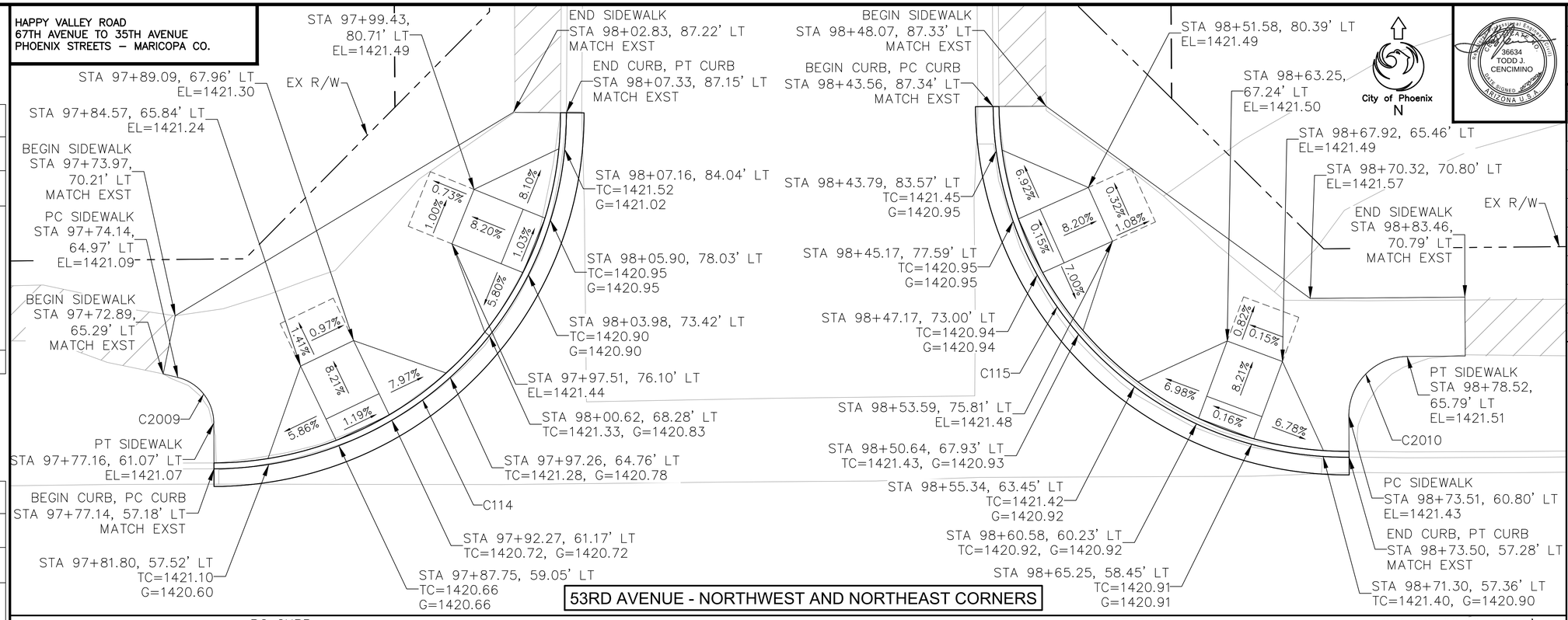
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

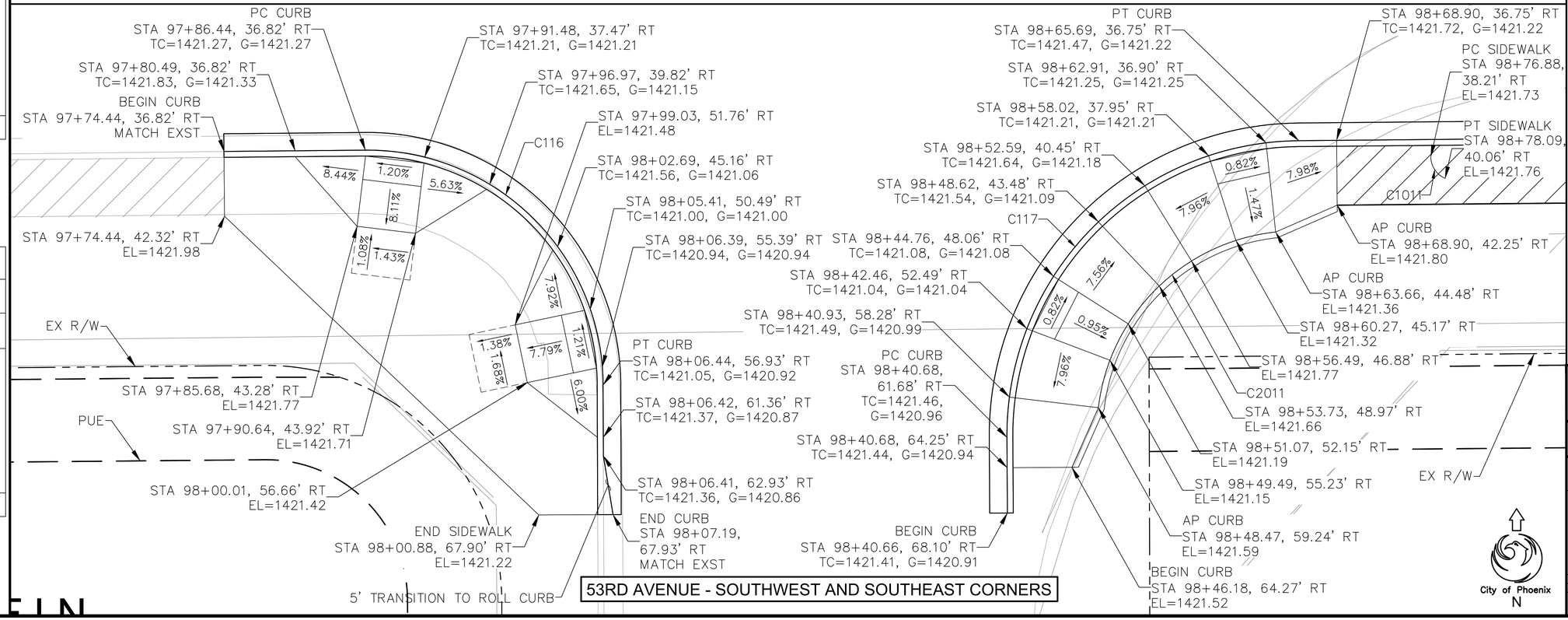
DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-1.07
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			153 OF 364

SHEET NAME: ST85100437C106.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



53RD AVENUE - NORTHWEST AND NORTHEAST CORNERS



53RD AVENUE - SOUTHWEST AND SOUTHEAST CORNERS

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	154	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C114	47.287	30.000	090°18'39"
C115	47.130	30.000	090°00'44"
C116	31.520	20.000	090°17'57"
C117	39.205	25.000	089°51'01"
C1011	2.340	2.000	067°02'58"
C2010	7.850	5.000	089°57'27"
C2011	22.864	17.000	077°03'29"

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ARIZONA811 Call 811 or click Arizona811.com

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PEDESTRIAN RAMP DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

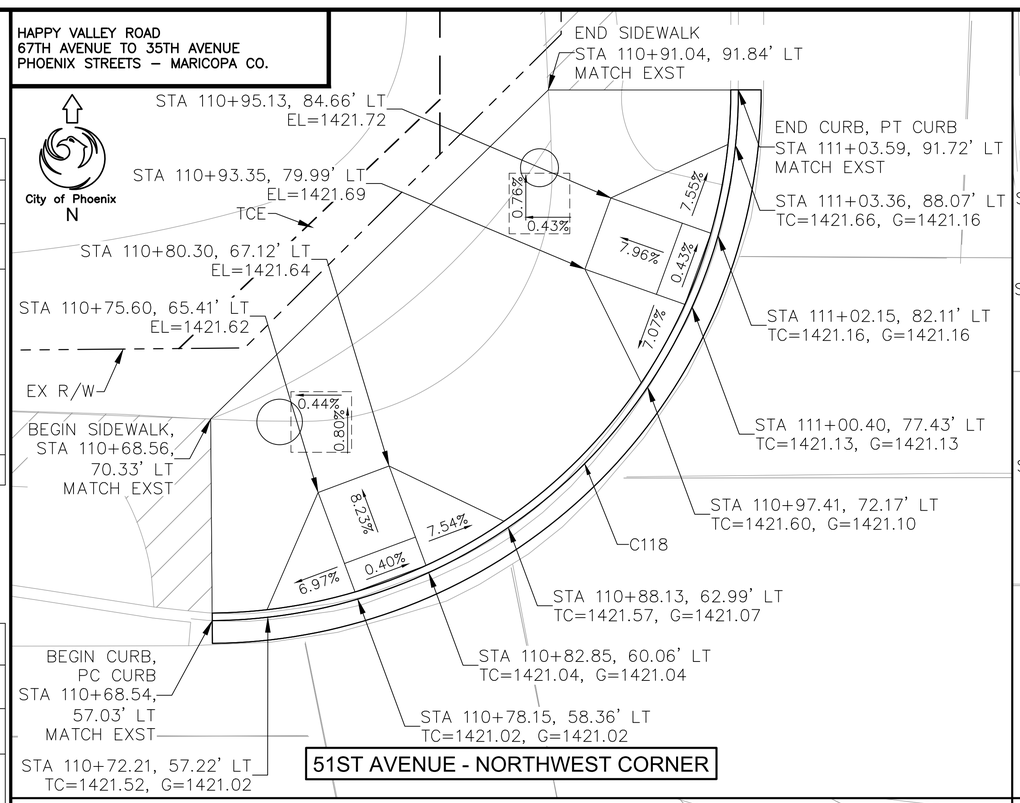
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-1.08
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			154 OF 364

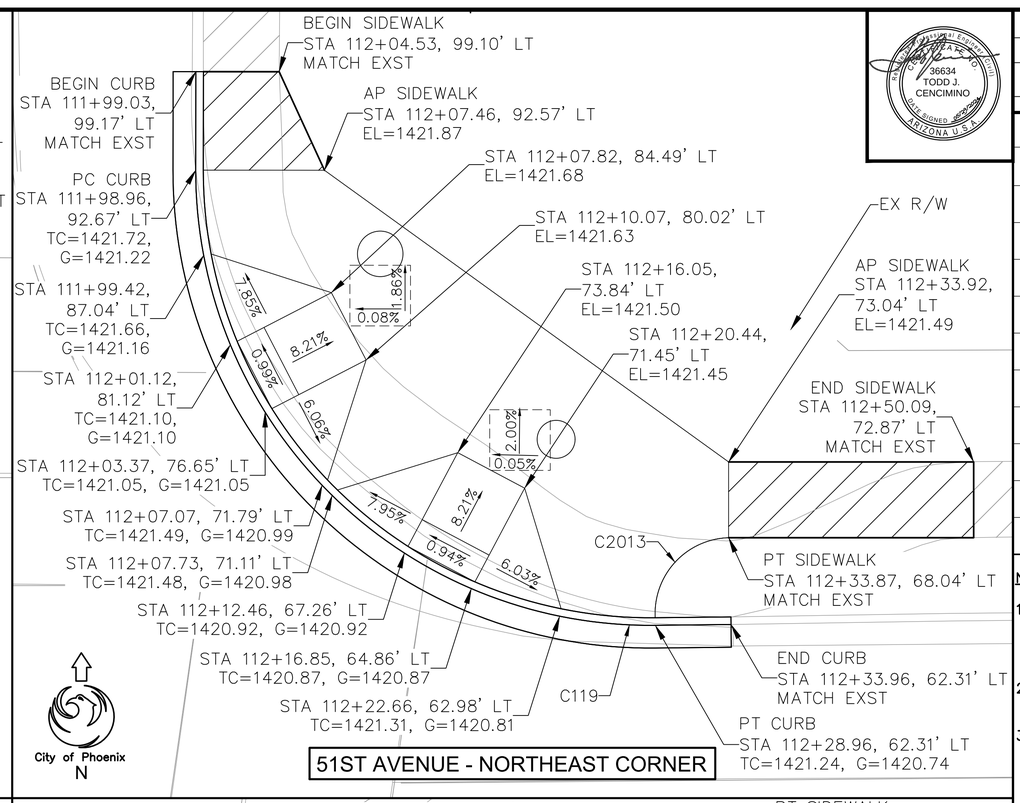
REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CKD BY | DATE

SHEET NAME: ST85100437C107.DWG, PLOT DATE: 5/28/2024

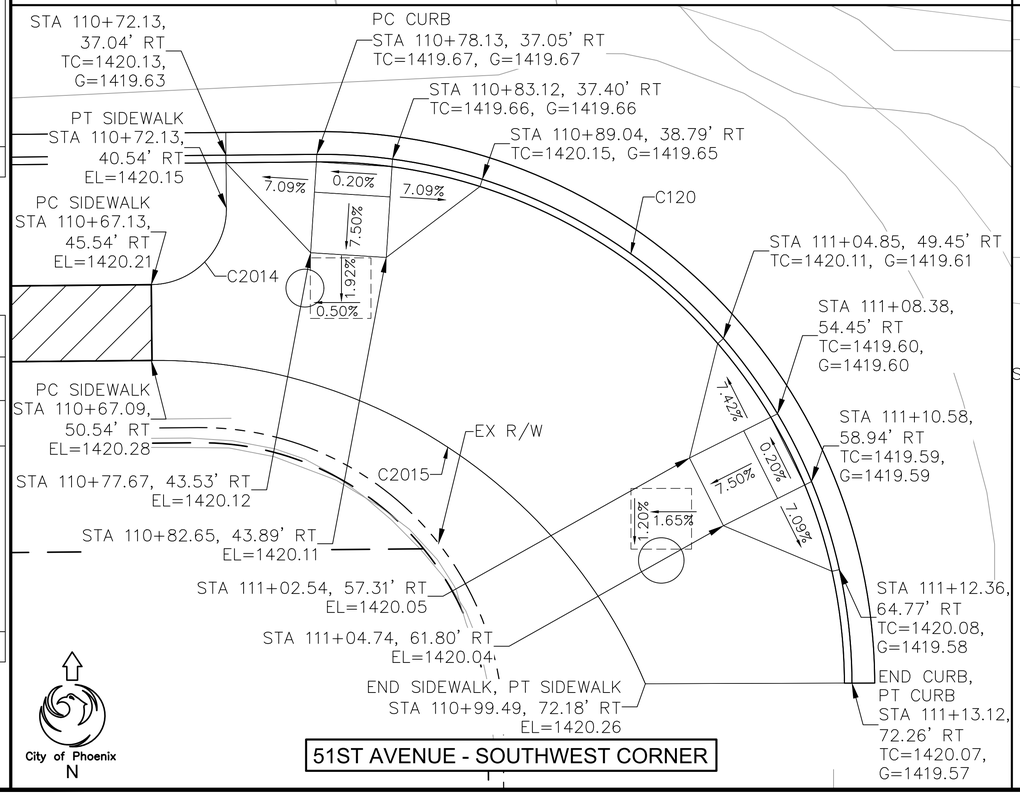
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



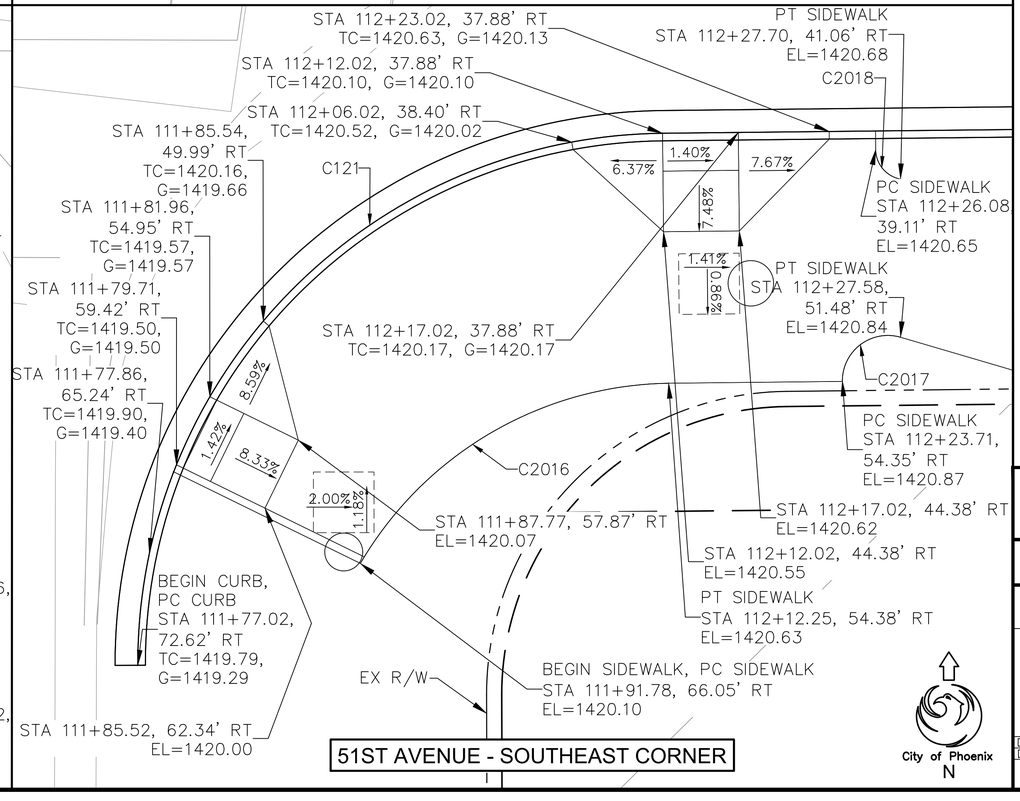
51ST AVENUE - NORTHWEST CORNER



51ST AVENUE - NORTHEAST CORNER



51ST AVENUE - SOUTHWEST CORNER



51ST AVENUE - SOUTHEAST CORNER

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	155	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C118	54.721	35.000	089°34'45"
C119	47.484	30.000	090°41'17"
C120	55.184	35.000	090°20'16"
C121	54.713	35.000	089°33'57"
C2013	7.990	5.000	091°33'18"
C2014	7.854	5.000	090°00'00"
C2015	41.276	35.000	067°34'13"
C2016	24.631	24.000	058°48'06"
C2017	5.601	3.000	106°57'43"
C2018	2.549	2.000	073°01'52"

NOTES:

1. THE CONTRACTOR SHALL LAYOUT ALL ADA RAMPS, JUNCTION BOXES, AND FOUNDATION LOCATIONS FOR APPROVAL BY A TRAFFIC SIGNAL REPRESENTATIVE.
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PEDESTRIAN RAMP DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

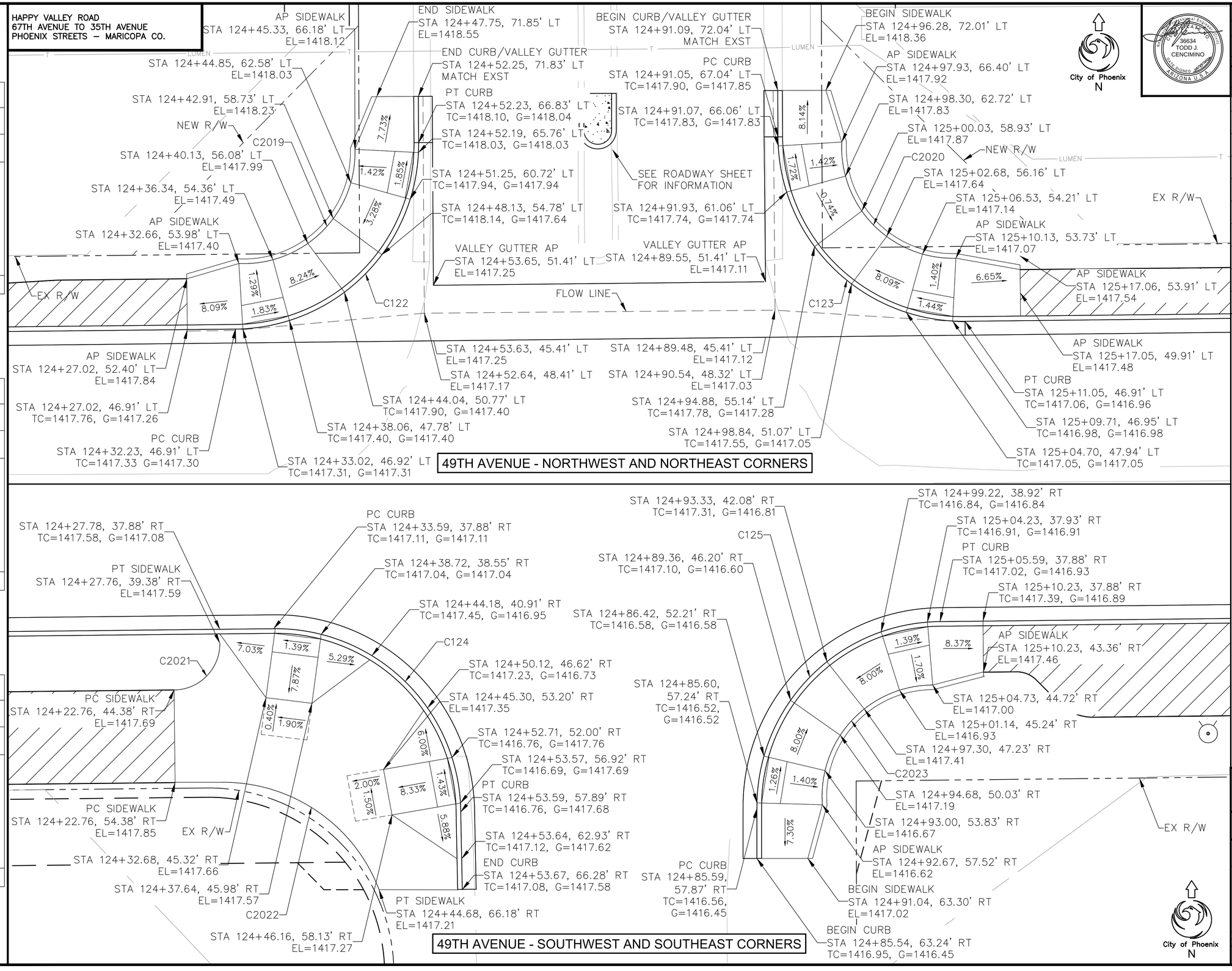
DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-1.09
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			155 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437C108.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



49TH AVENUE - NORTHWEST AND NORTHEAST CORNERS

49TH AVENUE - SOUTHWEST AND SOUTHEAST CORNERS

City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	156	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C122	31.338	20.000	089°46'32"
C123	31.550	20.000	090°23'07"
C124	31.420	20.000	090°00'46"
C125	31.407	20.000	089°58'25"
C2019	19.742	12.000	094°15'38"
C2020	19.742	12.000	094°15'38"
C2021	7.854	5.000	090°00'00"
C2022	21.946	18.000	069°51'20"
C2023	19.742	12.000	094°15'38"

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ARIZONA811 Call 811 or click Arizona811.com

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PEDESTRIAN RAMP DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-1.10
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			156 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

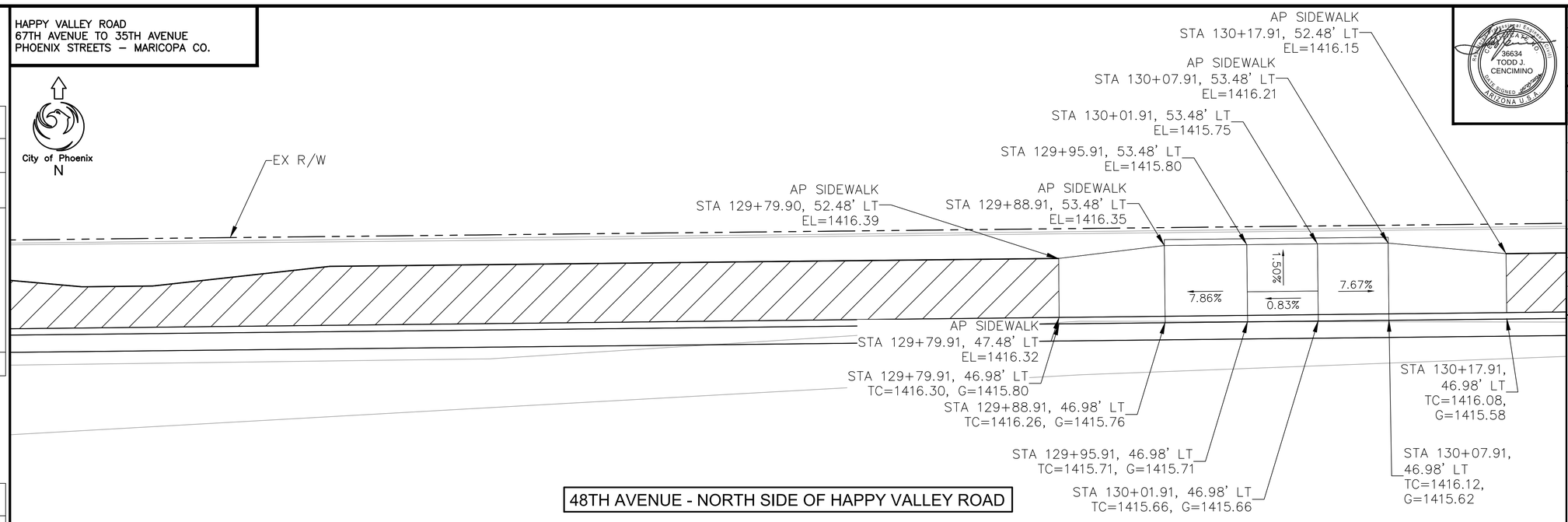
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437C109.DWG, PLOT DATE: 5/28/2024

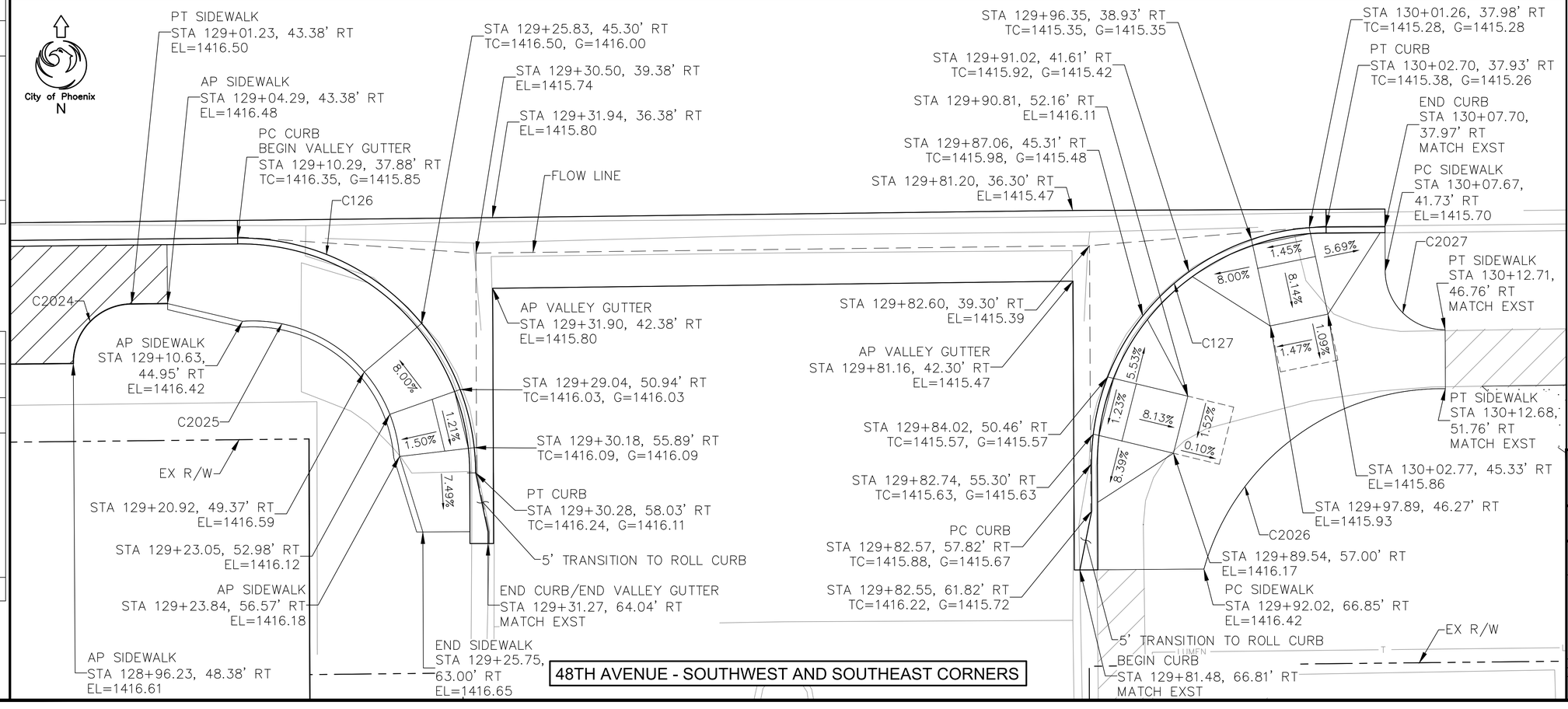
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N



48TH AVENUE - NORTH SIDE OF HAPPY VALLEY ROAD

City of Phoenix
N



48TH AVENUE - SOUTHWEST AND SOUTHEAST CORNERS

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	157	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C126	31.559	20.000	090°24'31"
C127	31.424	20.000	090°01'28"
C2024	7.854	5.000	090°00'00"
C2025	19.513	12.500	089°26'34"
C2026	27.513	21.000	075°03'57"
C2027	7.924	5.000	090°48'09"

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ARIZONA811
Call 811 or click Arizona811.com

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PEDESTRIAN RAMP DETAIL

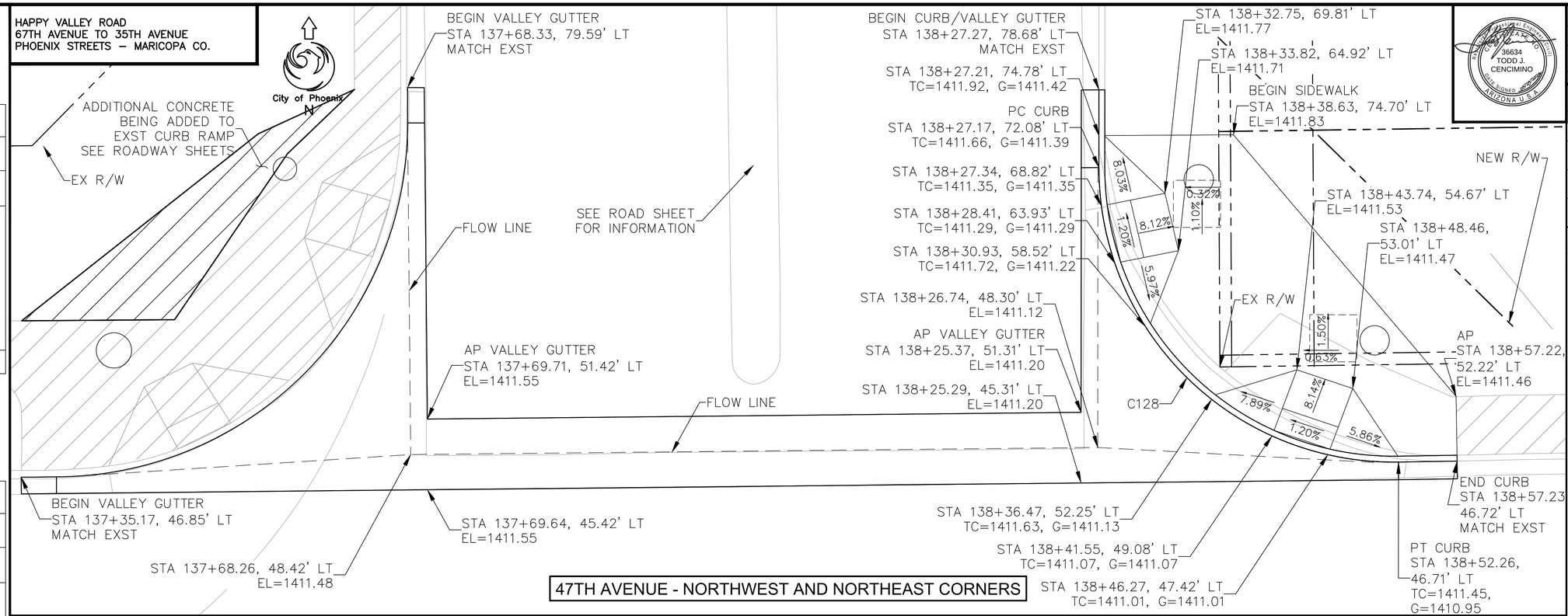
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

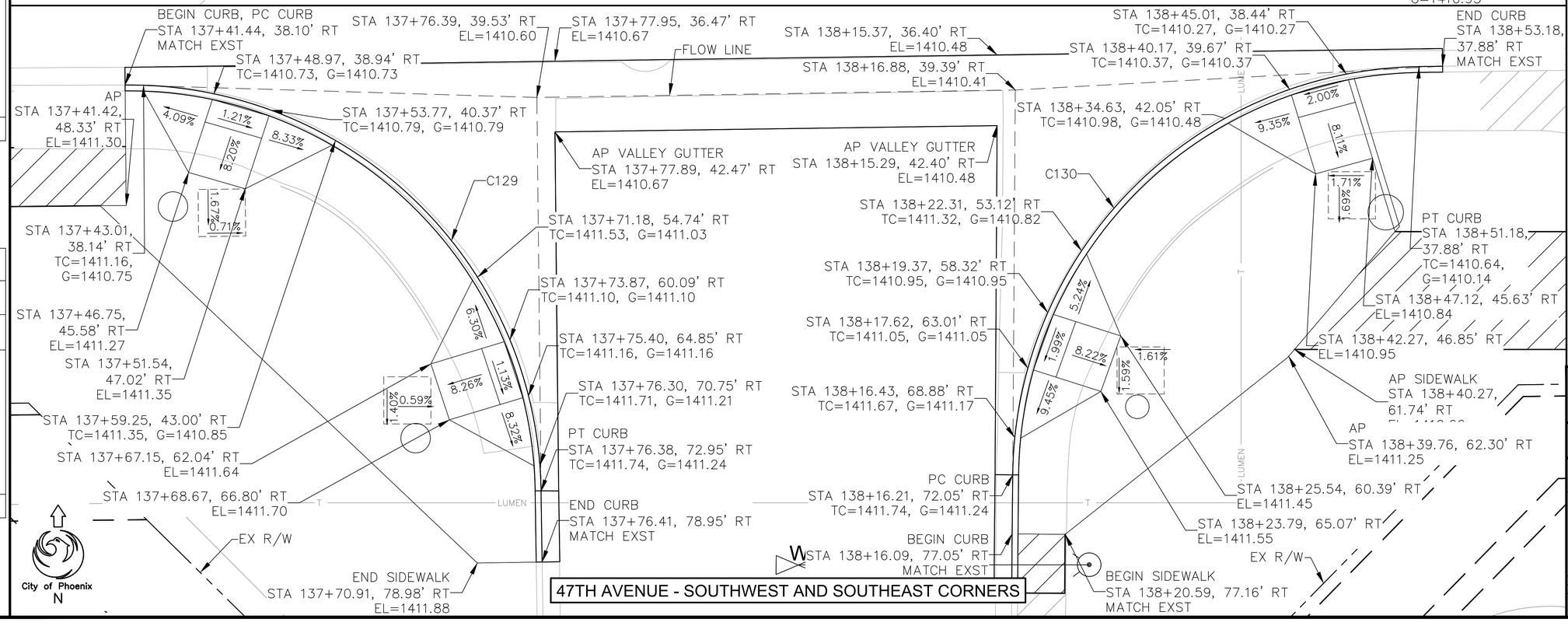
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DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			157 OF 364

SHEET NAME: ST85100437C110.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



47TH AVENUE - NORTHWEST AND NORTHEAST CORNERS



47TH AVENUE - SOUTHWEST AND SOUTHEAST CORNERS

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	158	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C128	39.721	25.000	091°02'02"
C129	54.770	35.000	089°39'37"
C130	54.125	35.000	088°36'12"

NOTES:

1. THE CONTRACTOR SHALL LAYOUT ALL ADA RAMPS, JUNCTION BOXES, AND FOUNDATION LOCATIONS FOR APPROVAL BY A TRAFFIC SIGNAL REPRESENTATIVE.
2. CONTRACTOR MUST HAVE A VISIBLE BLUESTAKE SHOWING ALL UTILITIES.
3. ALL ADA RAMPS SHALL BE LAID OUT IN WHITE MARKING PAINT TO DETERMINE BEST TRAFFIC SIGNAL POLE LOCATIONS.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

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PEDESTRIAN RAMP DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

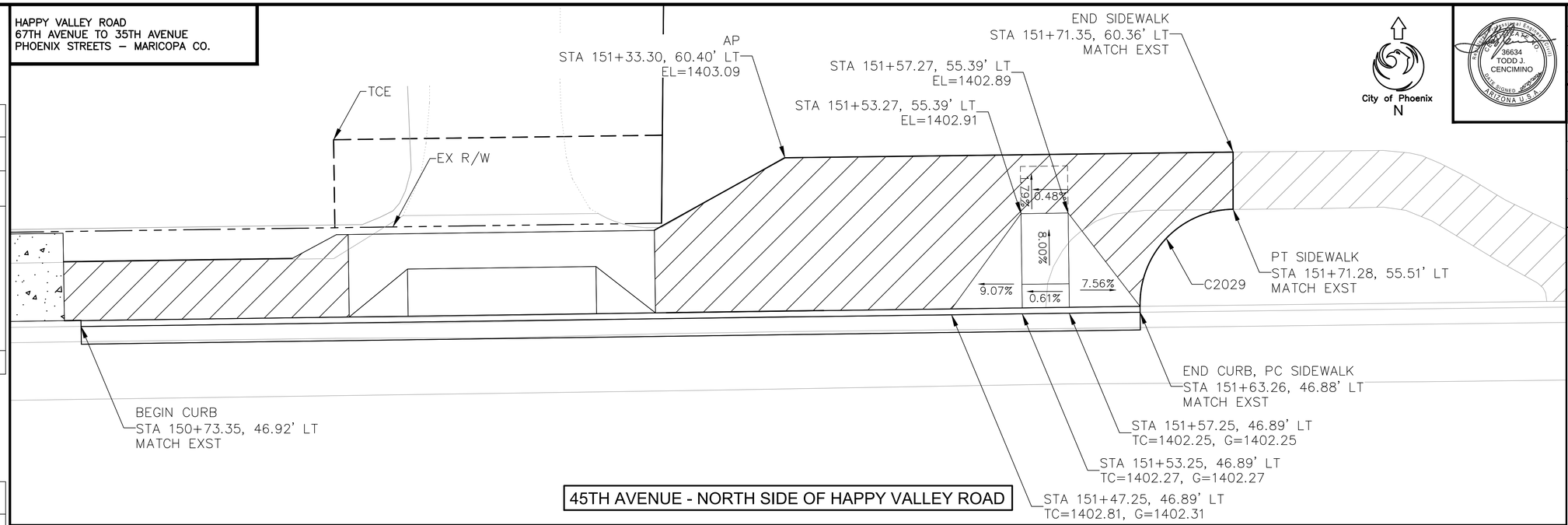
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DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			158 OF 364

REVISION BY CITY OF PHOENIX

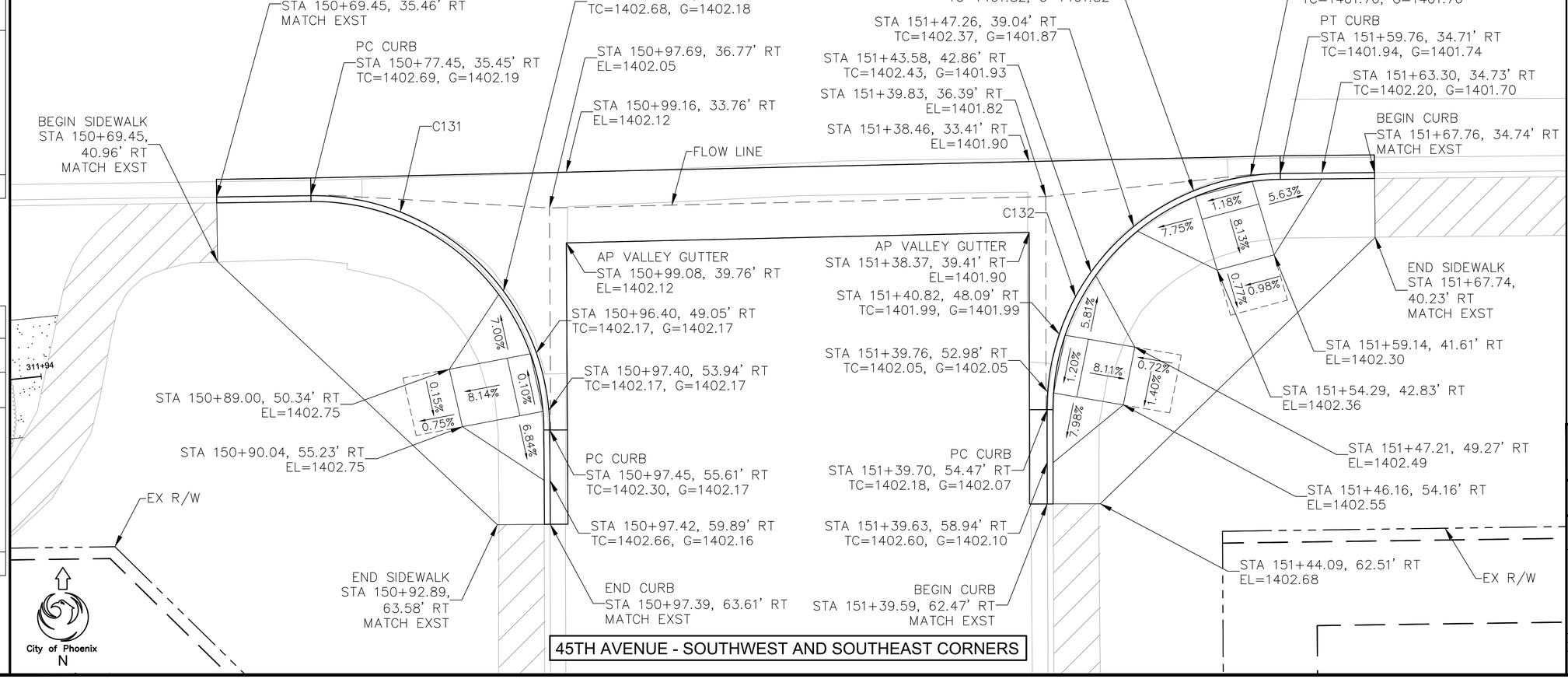
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437C111.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



45TH AVENUE - NORTH SIDE OF HAPPY VALLEY ROAD



45TH AVENUE - SOUTHWEST AND SOUTHEAST CORNERS

City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	159	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C131	31.576	20.000	090°27'30"
C132	31.247	20.000	089°30'56"
C2029	12.705	8.000	090°59'22"

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

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ARIZONA811 Call 811 or click Arizona811.com

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PEDESTRIAN RAMP DETAIL

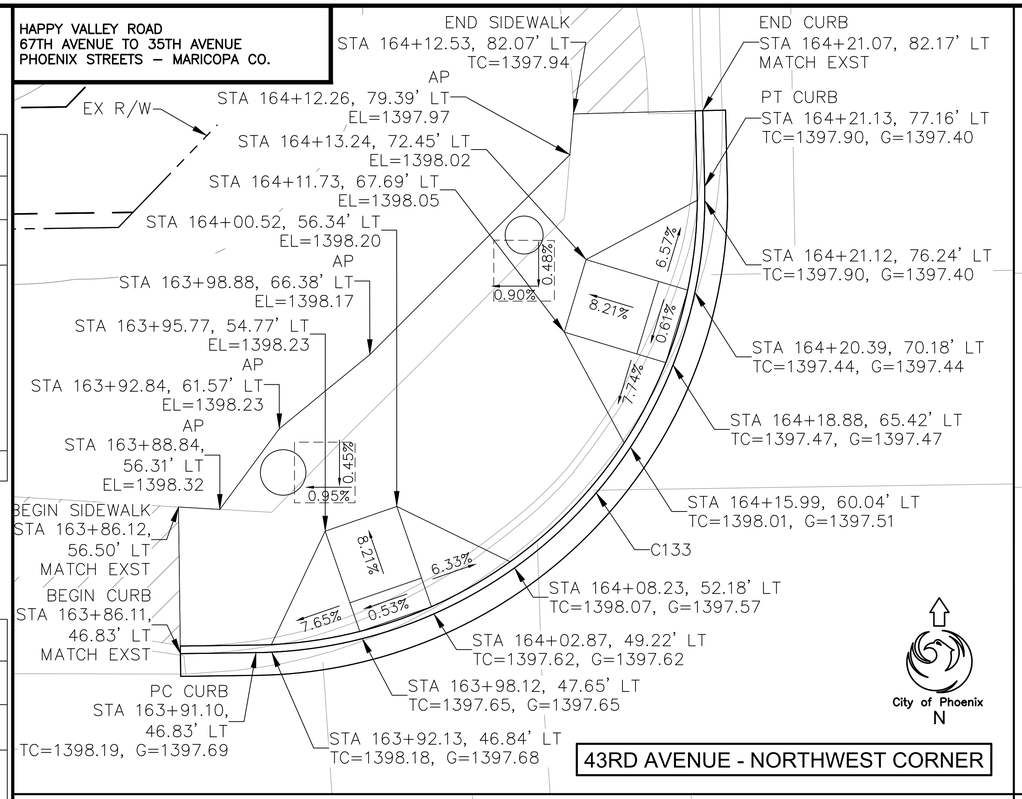
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

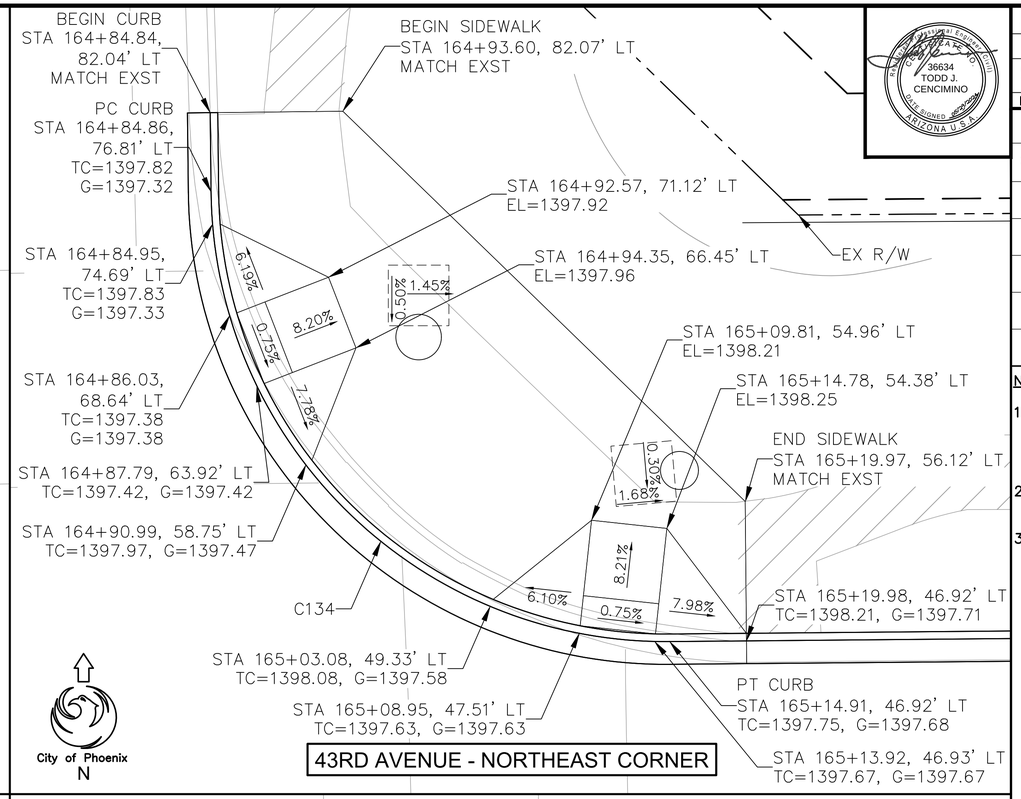
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DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			159 OF 364

SHEET NAME: ST85100437C112.DWG, PLOT DATE: 5/28/2024

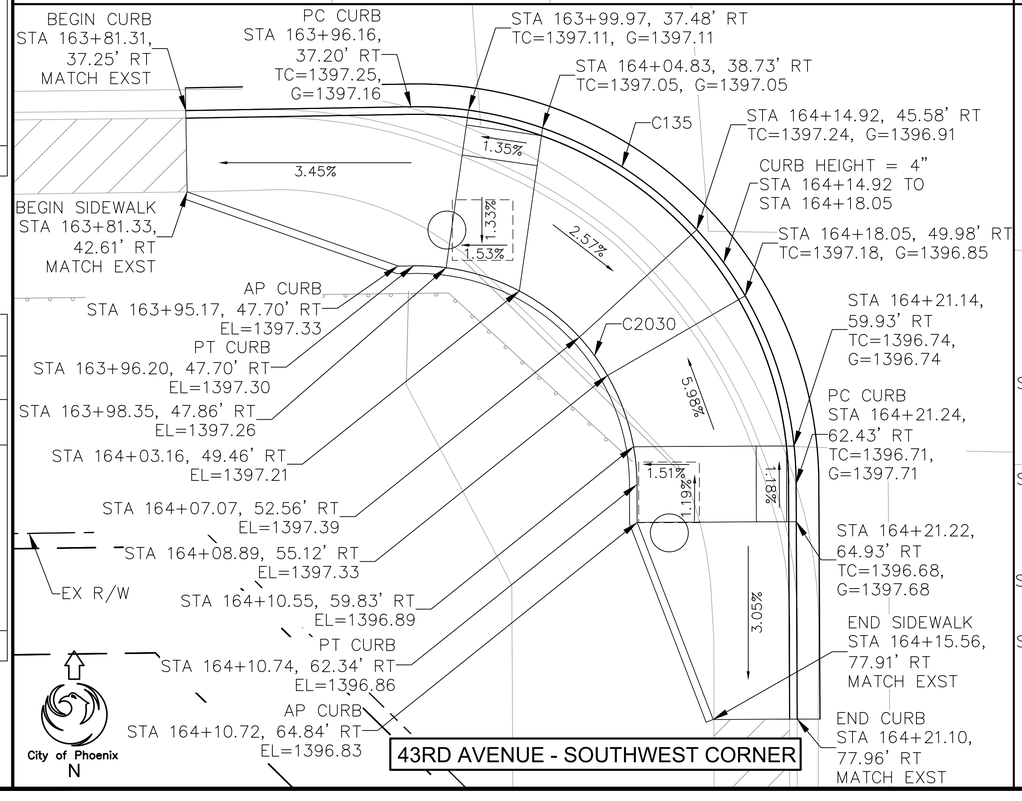
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



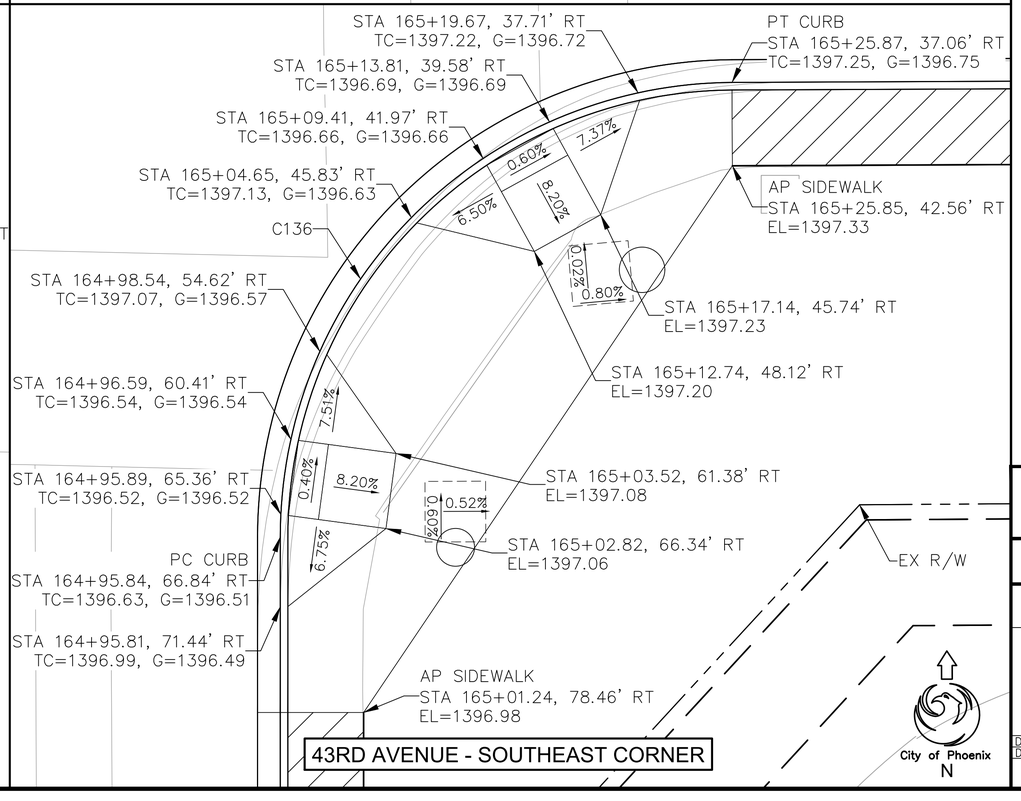
43RD AVENUE - NORTHWEST CORNER



43RD AVENUE - NORTHEAST CORNER



43RD AVENUE - SOUTHWEST CORNER



43RD AVENUE - SOUTHEAST CORNER

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	160	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634
TODD J.
CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C133	47.487	30.000	090°41'38"
C134	47.067	30.000	089°53'29"
C135	39.577	25.000	090°42'15"
C136	46.931	30.000	089°37'52"
C2030	22.955	14.500	090°42'15"

NOTES:

1. THE CONTRACTOR SHALL LAYOUT ALL ADA RAMPS, JUNCTION BOXES, AND FOUNDATION LOCATIONS FOR APPROVAL BY A TRAFFIC SIGNAL REPRESENTATIVE.
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3. ALL ADA RAMPS SHALL BE LAID OUT IN WHITE MARKING PAINT TO DETERMINE BEST TRAFFIC SIGNAL POLE LOCATIONS.

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ARIZONA811
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PEDESTRIAN RAMP DETAIL

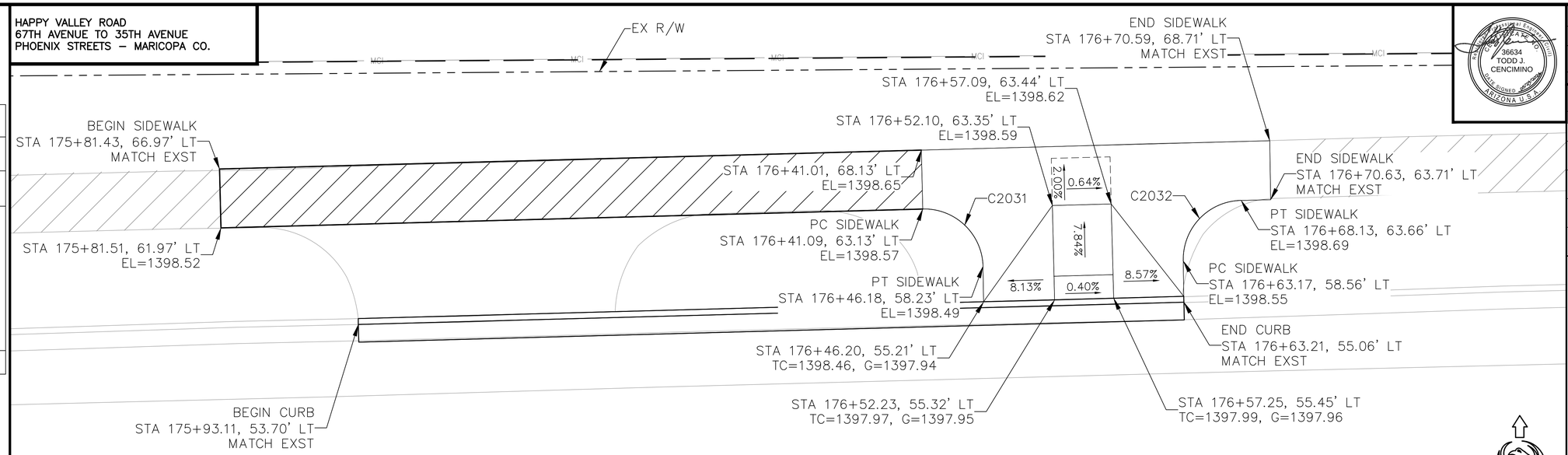
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

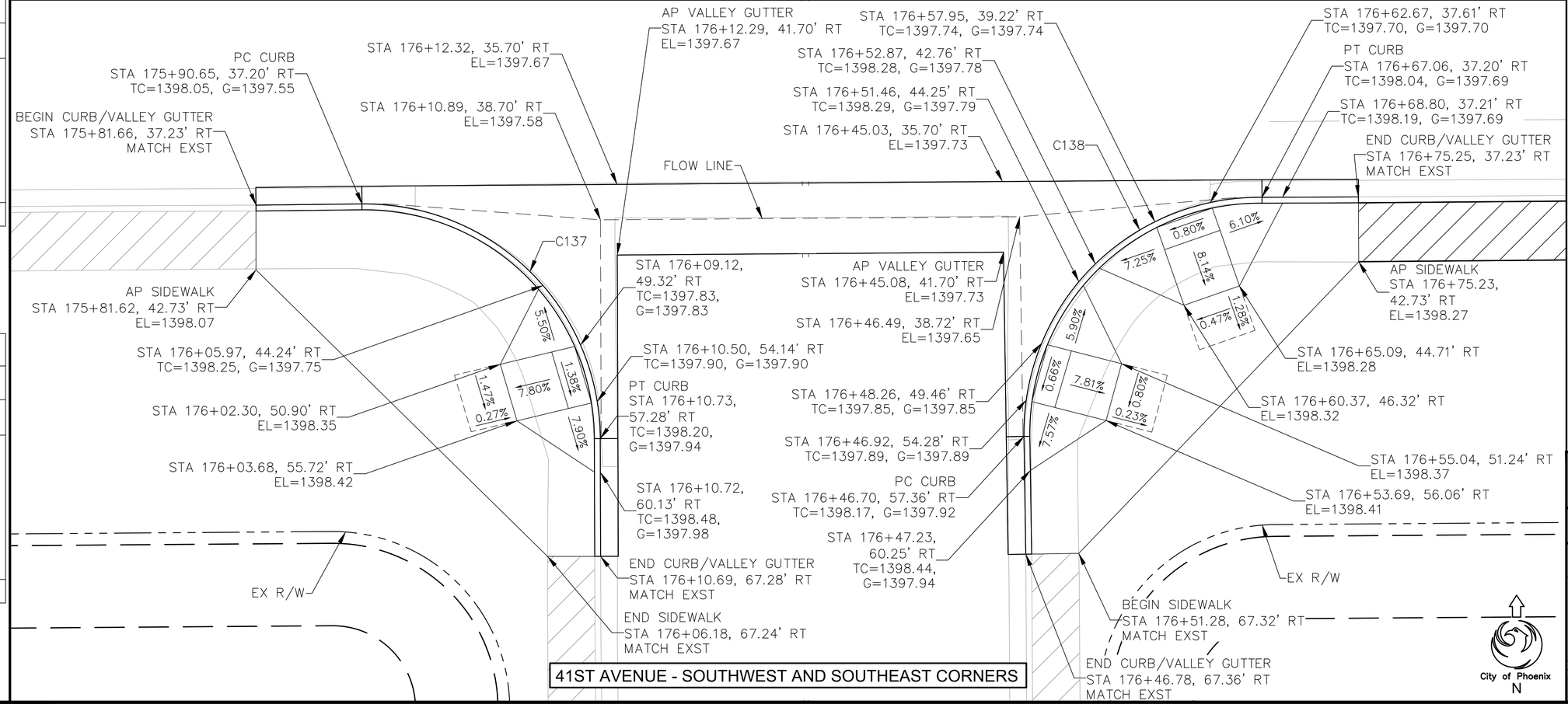
DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-1.14
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			160 OF 364

SHEET NAME: ST85100437C113.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



41ST AVENUE - NORTH SIDE OF HAPPY VALLEY ROAD



41ST AVENUE - SOUTHWEST AND SOUTHEAST CORNERS

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	161	368	

05/2024 DATE:

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C137	31.575	20.000	090°27'17"
C138	31.932	20.000	091°28'46"
C2031	7.839	5.000	089°49'47"
C2032	7.913	5.000	090°40'20"

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

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ARIZONA811
Call 811 or click Arizona811.com

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PEDESTRIAN RAMP DETAIL

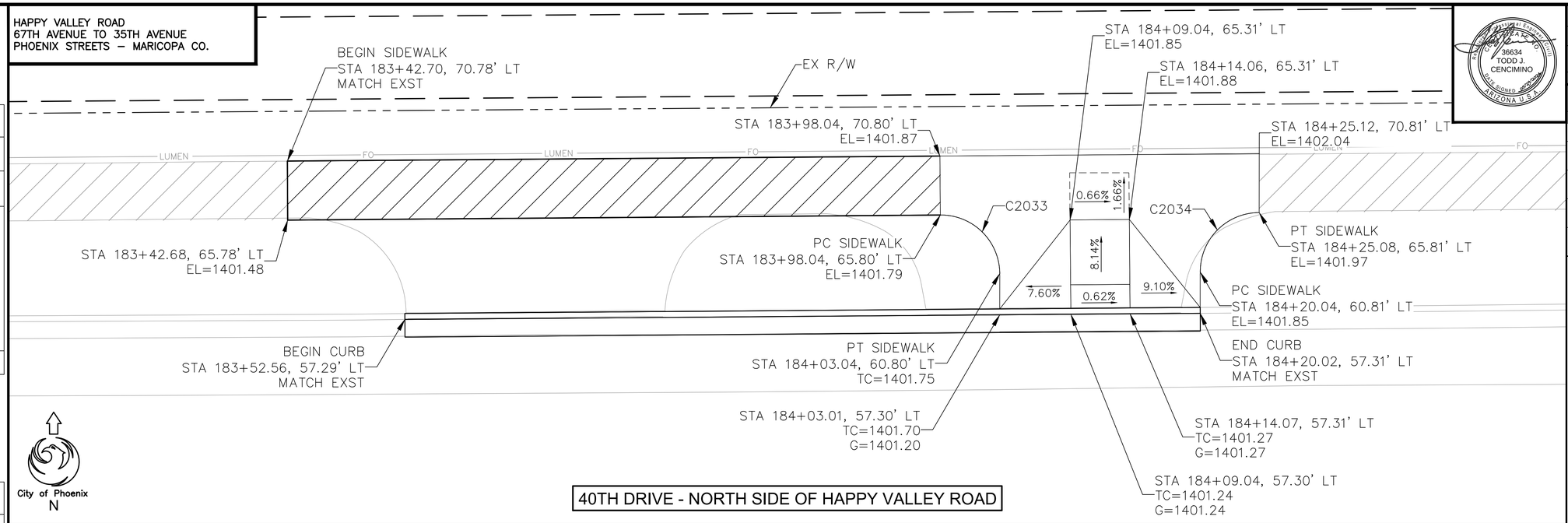
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

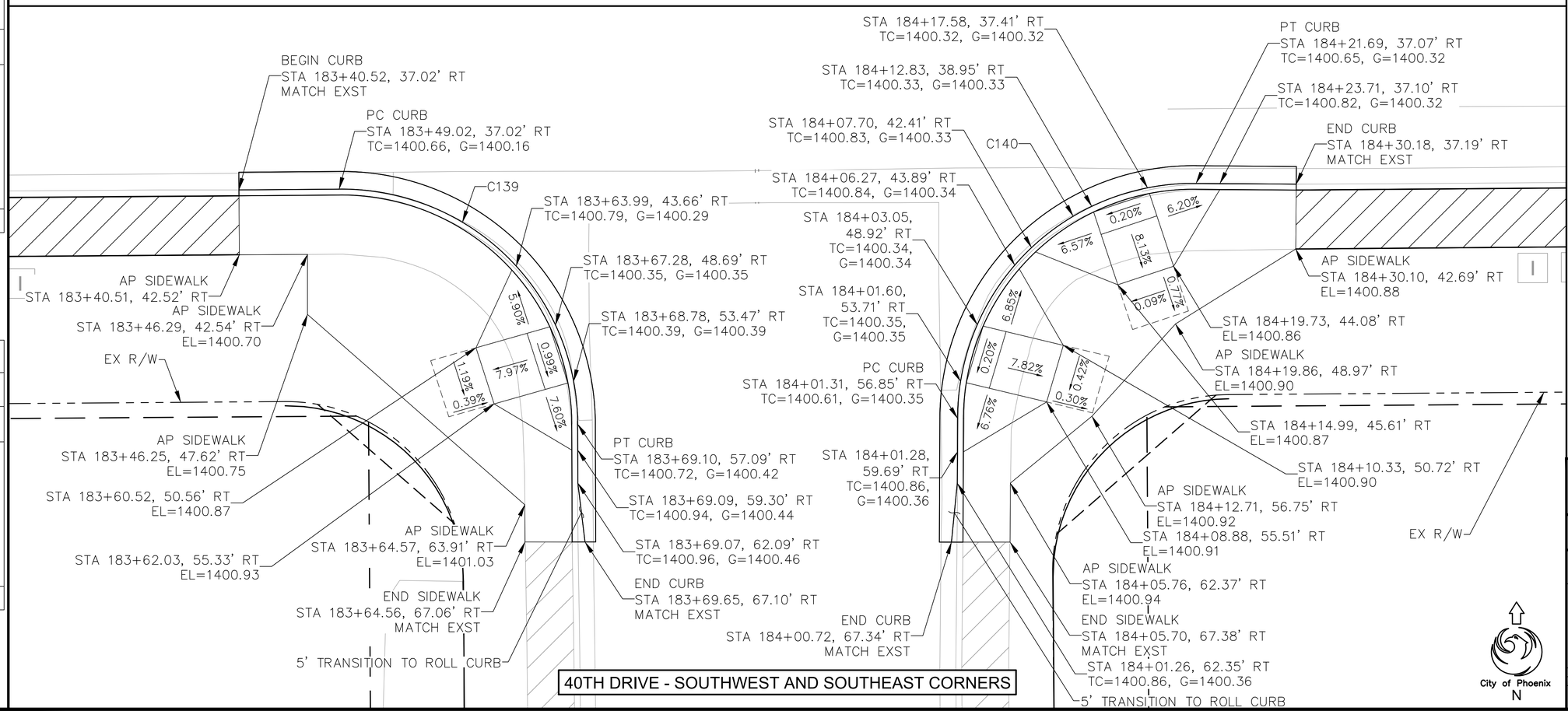
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DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			161 OF 364

SHEET NAME: ST85100437C114.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



40TH DRIVE - NORTH SIDE OF HAPPY VALLEY ROAD



40TH DRIVE - SOUTHWEST AND SOUTHEAST CORNERS

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	162	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C139	31.573	20.000	090°26'57"
C140	31.575	20.000	090°27'17"
C2033	7.854	5.000	090°00'12"
C2034	7.896	5.000	090°29'00"

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ARIZONA811 Call 811 or click Arizona811.com

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PEDESTRIAN RAMP DETAIL

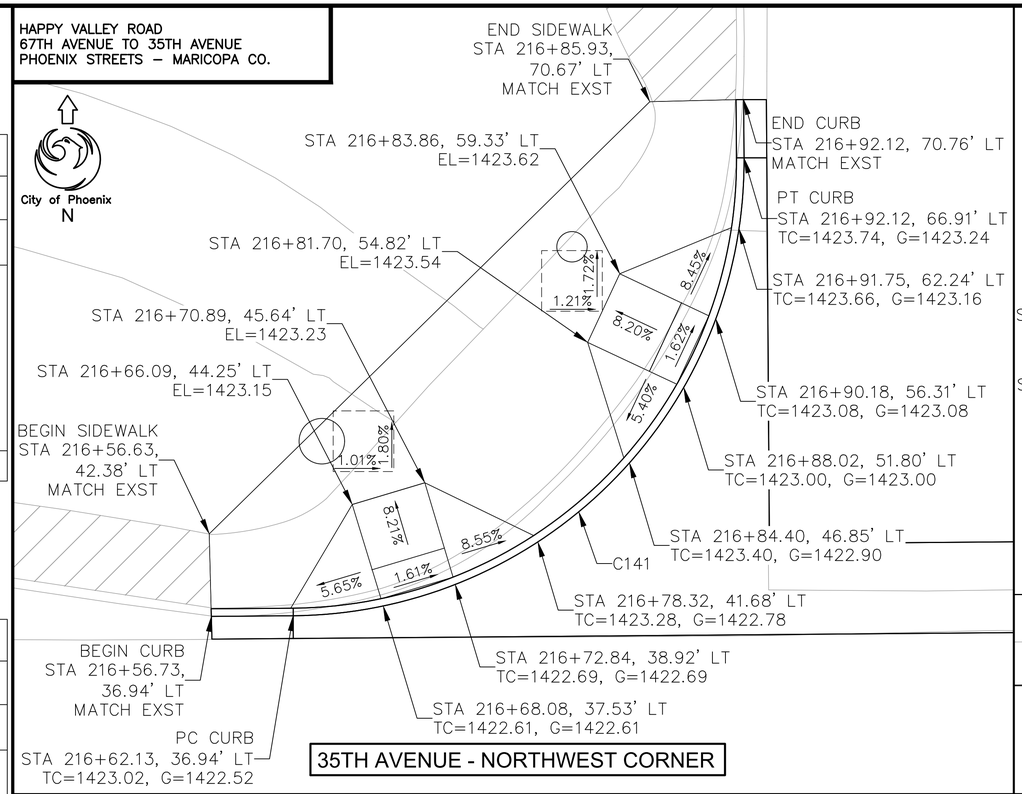
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

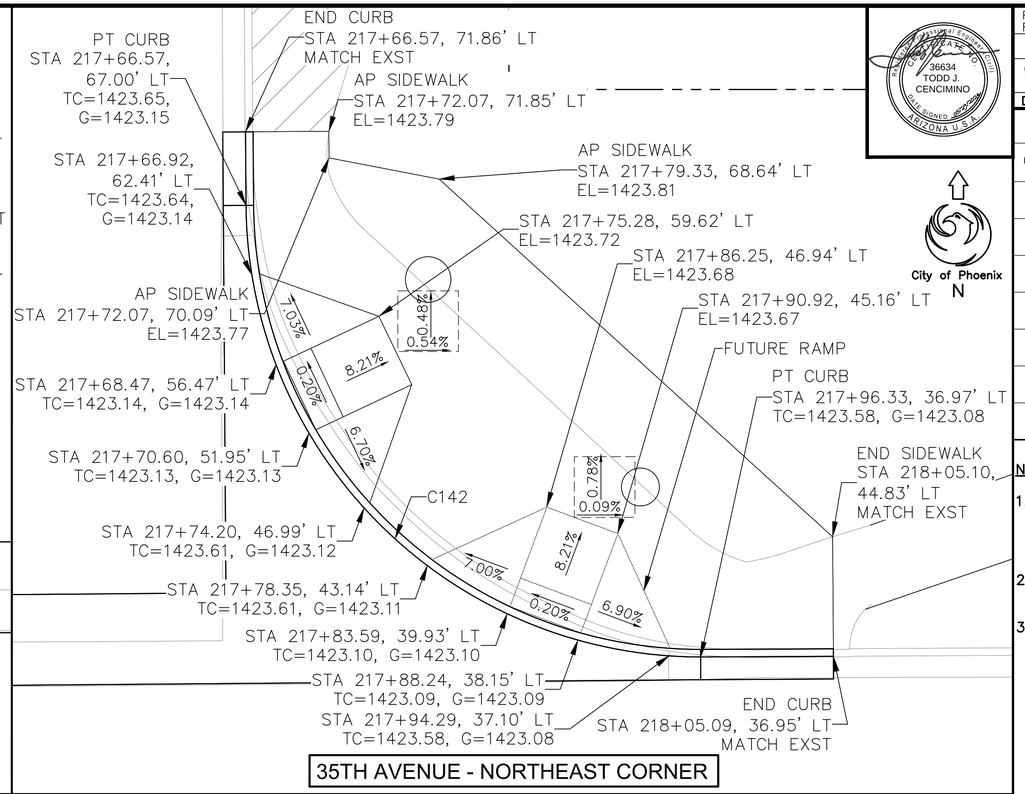
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DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			162 OF 364

SHEET NAME: ST85100437C115.DWG, PLOT DATE: 5/28/2024

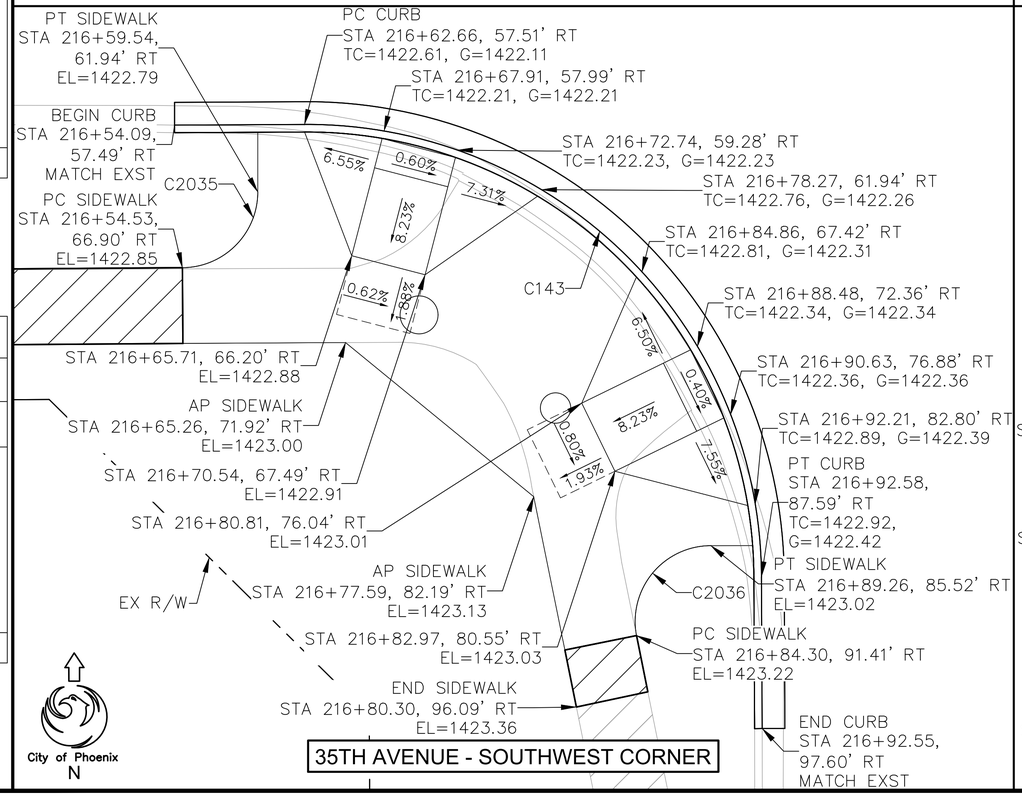
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



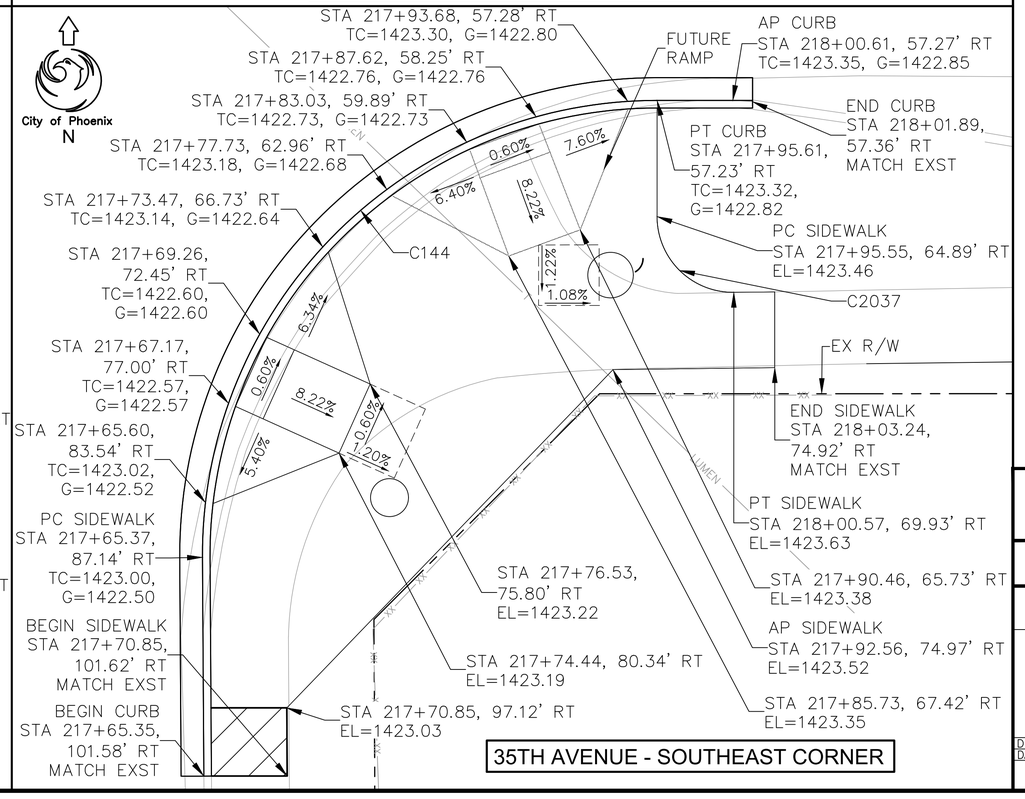
35TH AVENUE - NORTHWEST CORNER



35TH AVENUE - NORTHEAST CORNER



35TH AVENUE - SOUTHWEST CORNER



35TH AVENUE - SOUTHEAST CORNER

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	163	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C141	47.087	30.000	089°55'48"
C142	46.920	30.000	089°36'39"
C143	47.127	30.000	090°00'23"
C144	47.275	30.000	090°17'16"
C2035	7.828	5.000	089°42'19"
C2036	8.789	5.000	100°42'51"
C2037	7.918	5.000	090°43'59"

NOTES:

1. THE CONTRACTOR SHALL LAYOUT ALL ADA RAMPS, JUNCTION BOXES, AND FOUNDATION LOCATIONS FOR APPROVAL BY A TRAFFIC SIGNAL REPRESENTATIVE.
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PEDESTRIAN RAMP DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-1.17
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			163 OF 364

SHEET NAME: ST85100437C116.DWG, PLOT DATE: 5/28/2024

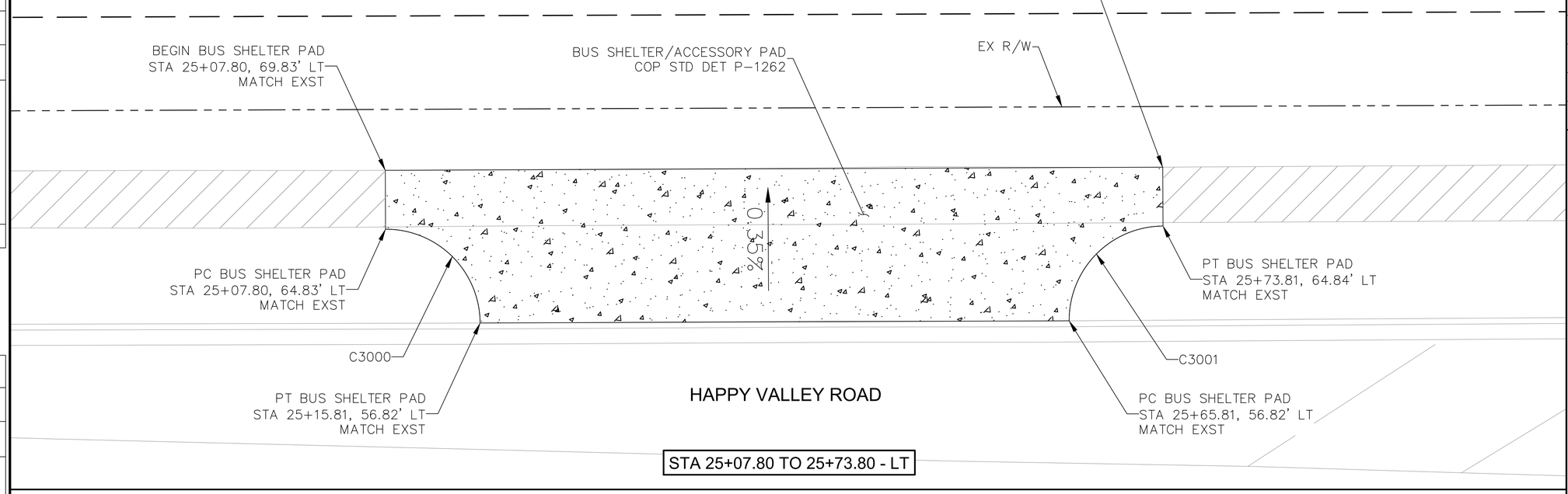
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

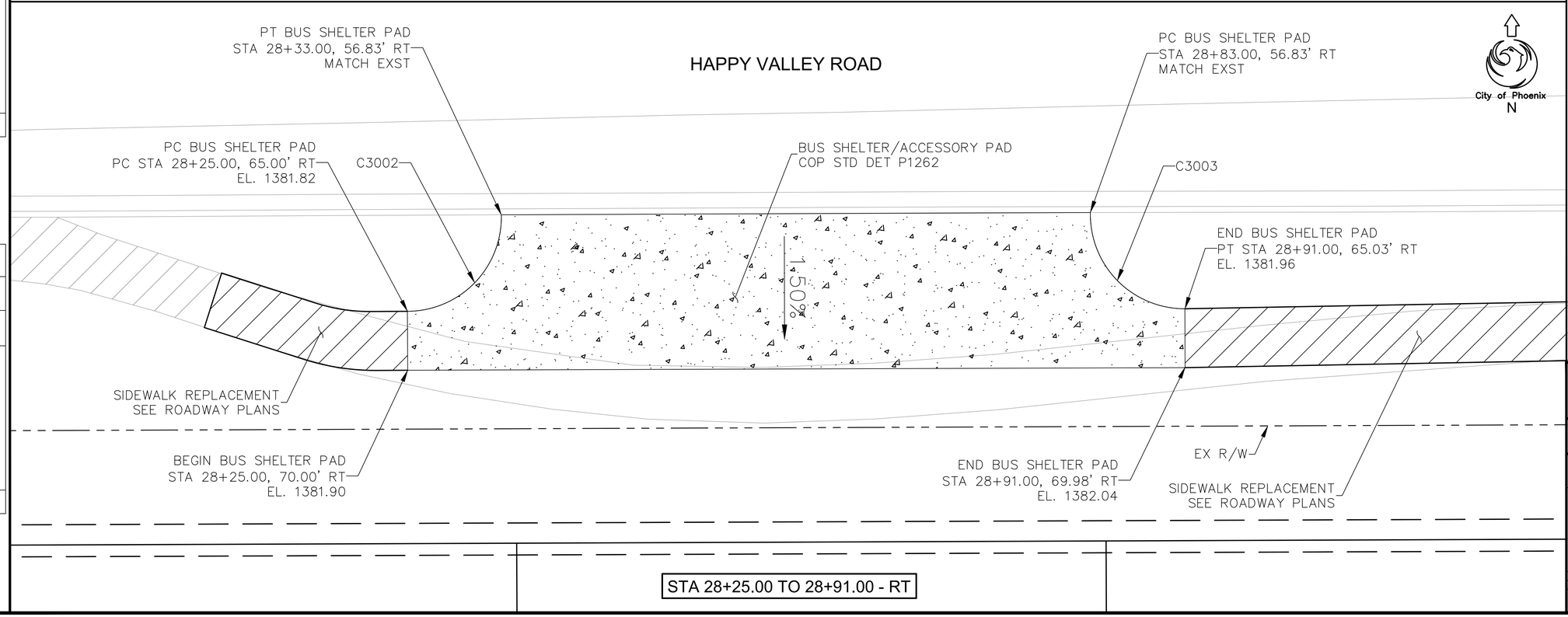
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



STA 25+07.80 TO 25+73.80 - LT



STA 28+25.00 TO 28+91.00 - RT

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	164	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C3000	12.570	8.000	090°01'22"
C3001	12.588	8.000	090°09'14"
C3002	12.739	8.000	091°13'59"
C3003	12.767	8.000	091°26'22"

NOTES:

1. SIDEWALK REMOVAL LIMIT TO NEAREST EXISTING JOINT WHEN SIDEWALK IS INSTALLED OUTSIDE OF SIDEWALK LIMIT.
2. SEE LANDSCAPE SHEETS FOR IRRIGATION SLEEVE LOCATIONS.

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ARIZONA811
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BUS SHELTER PAD DETAIL

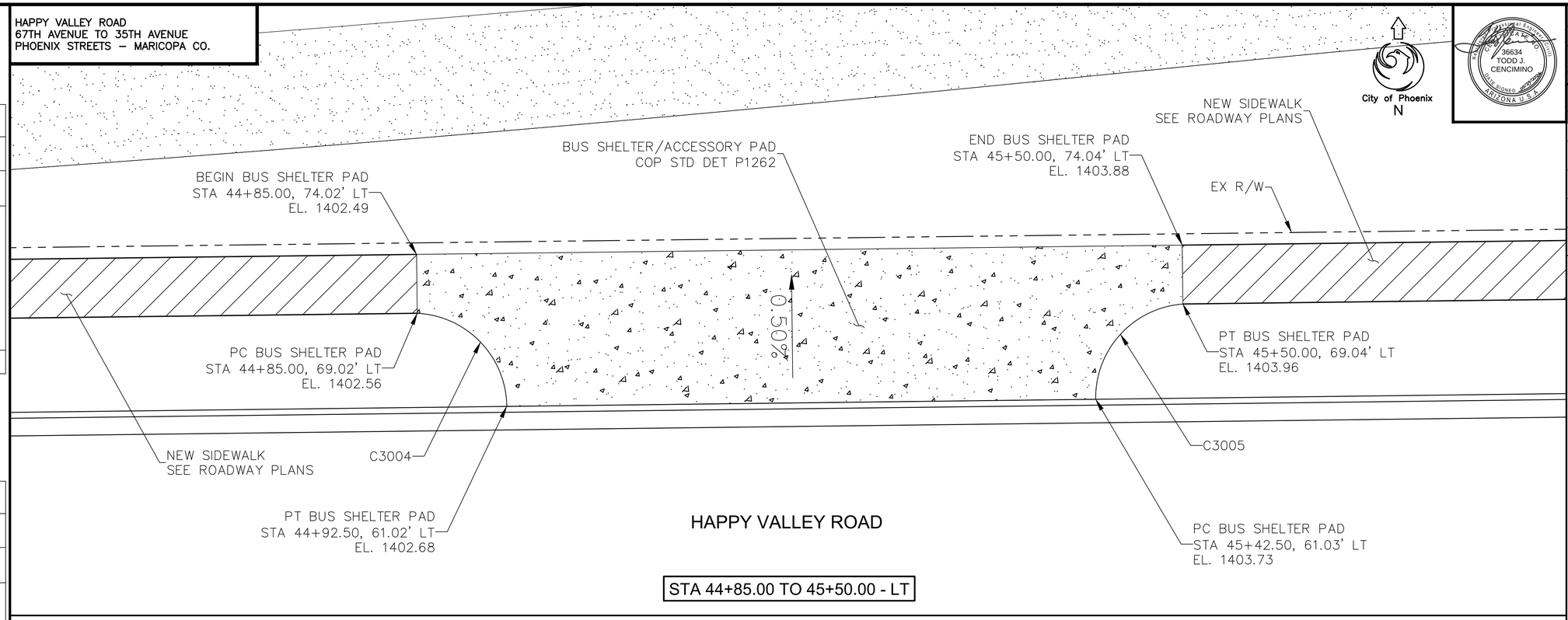
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

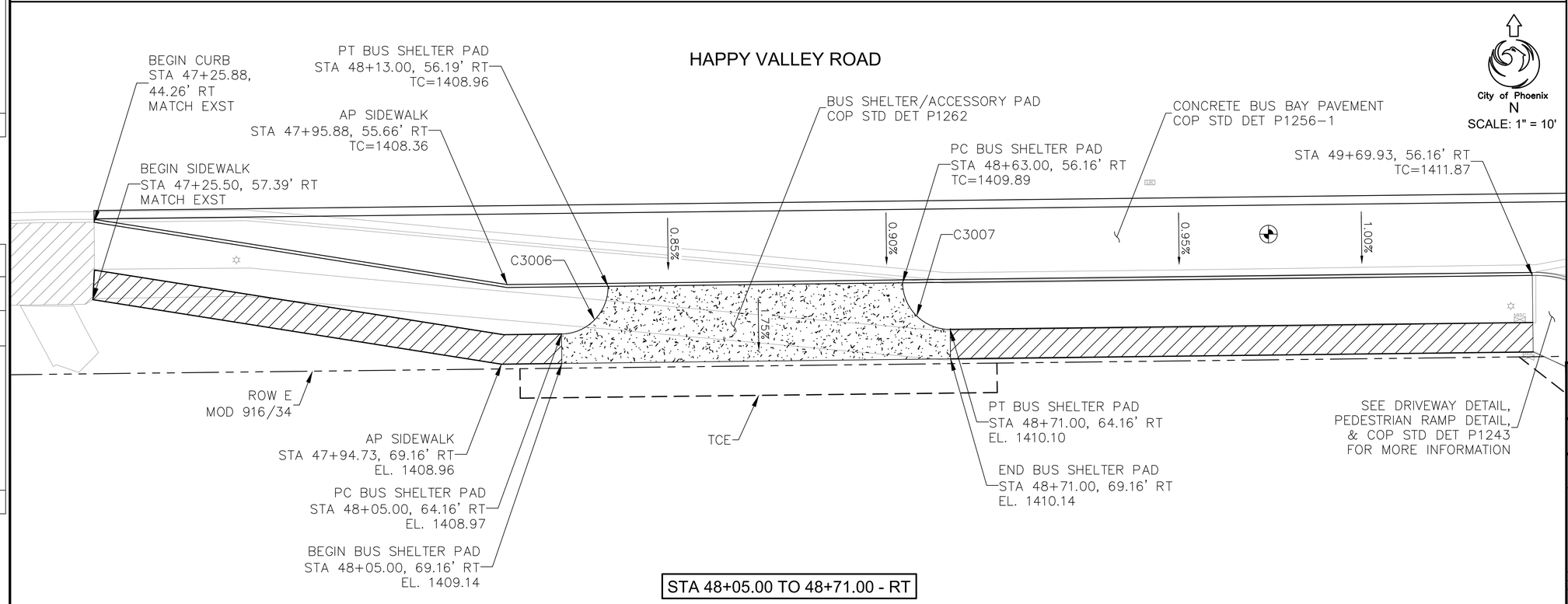
DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-2.01
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			164 OF 364

SHEET NAME: ST85100437C201.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



STA 44+85.00 TO 45+50.00 - LT



STA 48+05.00 TO 48+71.00 - RT

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	165	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO REGISTERED ARIZONA U.S.A.

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C3004	12.081	8.000	086°31'36"
C3005	12.082	8.000	086°31'44"
C3006	12.537	8.000	089°47'30"
C3007	12.567	8.000	090°00'18"

NOTES:

1. SIDEWALK REMOVAL LIMIT TO NEAREST EXISTING JOINT WHEN SIDEWALK IS INSTALLED OUTSIDE OF SIDEWALK LIMIT.
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BUS SHELTER PAD DETAIL

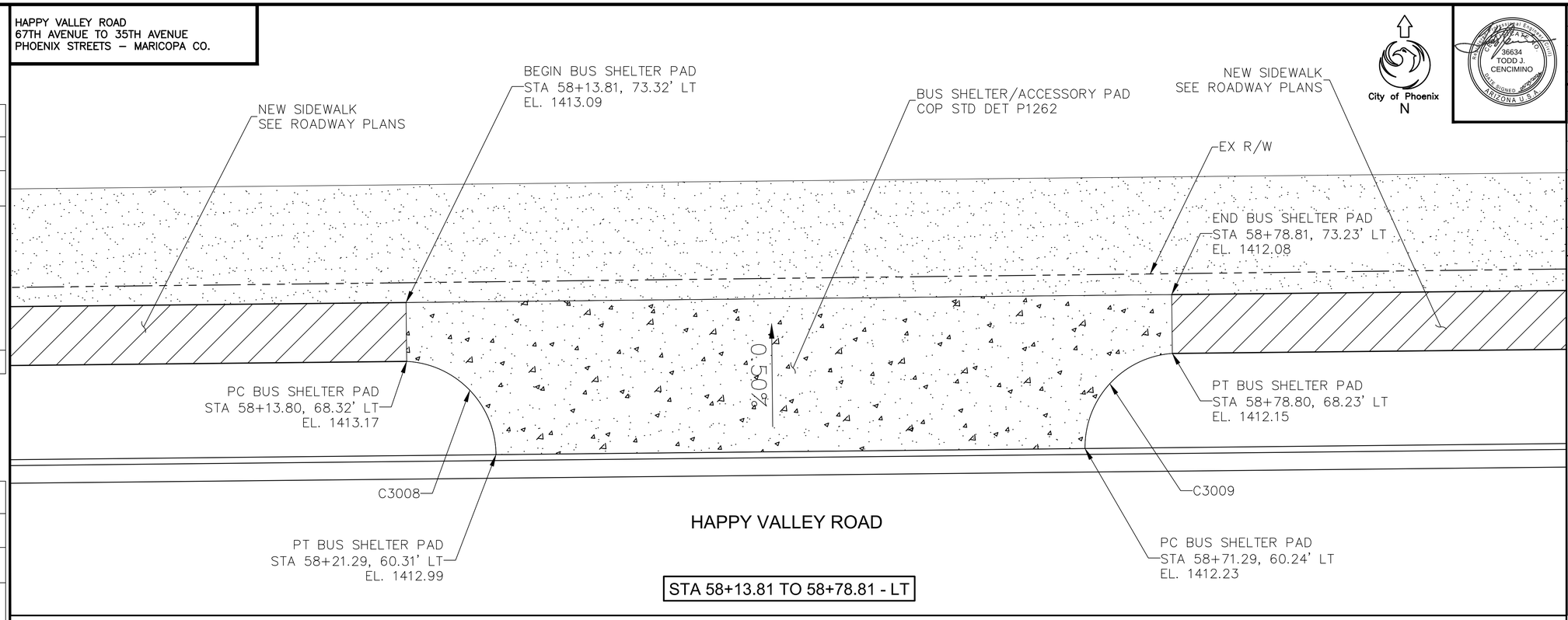
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

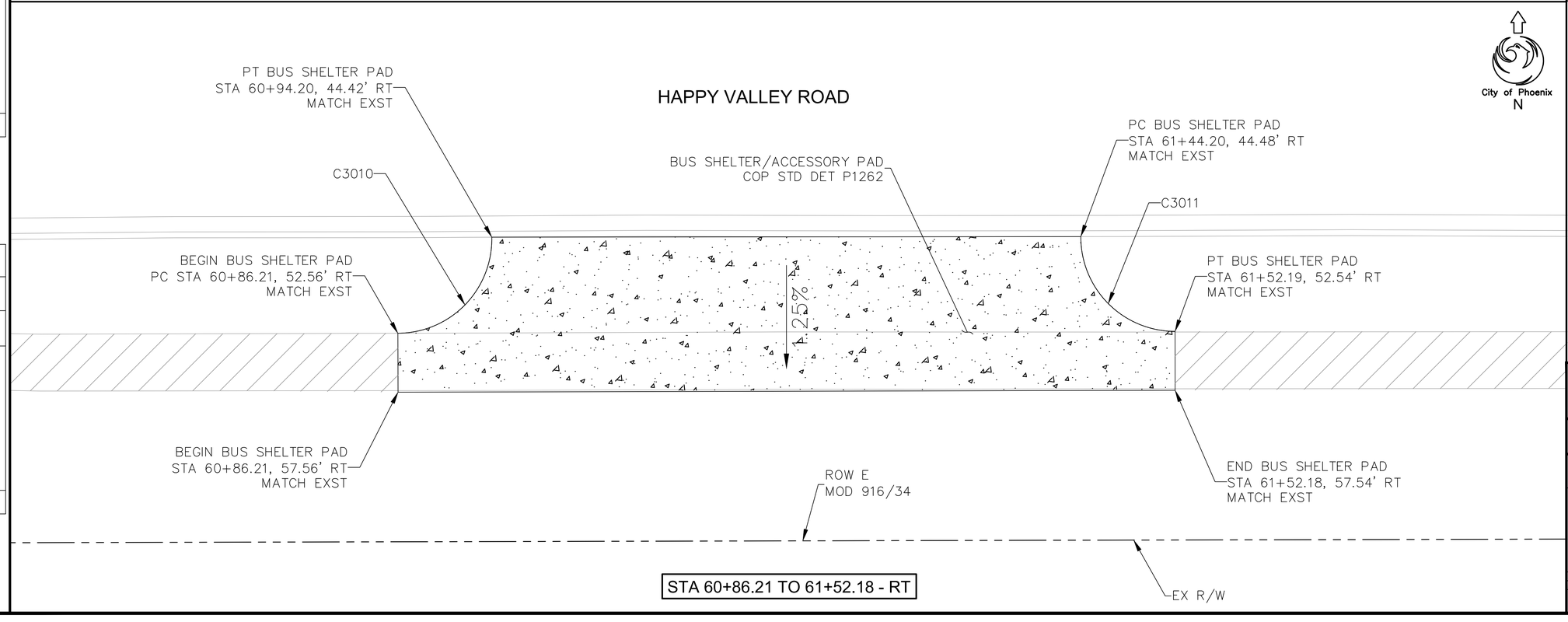
DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-2.02
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			165 OF 364

SHEET NAME: ST85100437C202.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



STA 58+13.81 TO 58+78.81 - LT



STA 60+86.21 TO 61+52.18 - RT

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	166	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C3008	12.081	8.000	086°31'36"
C3009	12.081	8.000	086°31'36"
C3010	12.697	8.000	090°56'13"
C3011	12.610	8.000	090°18'45"

NOTES:

1. SIDEWALK REMOVAL LIMIT TO NEAREST EXISTING JOINT WHEN SIDEWALK IS INSTALLED OUTSIDE OF SIDEWALK LIMIT.
2. SEE LANDSCAPE SHEETS FOR IRRIGATION SLEEVE LOCATIONS.

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

BUS SHELTER PAD DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-2.03
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			166 OF 364

SHEET NAME: ST85100437C203.DWG, PLOT DATE: 5/28/2024

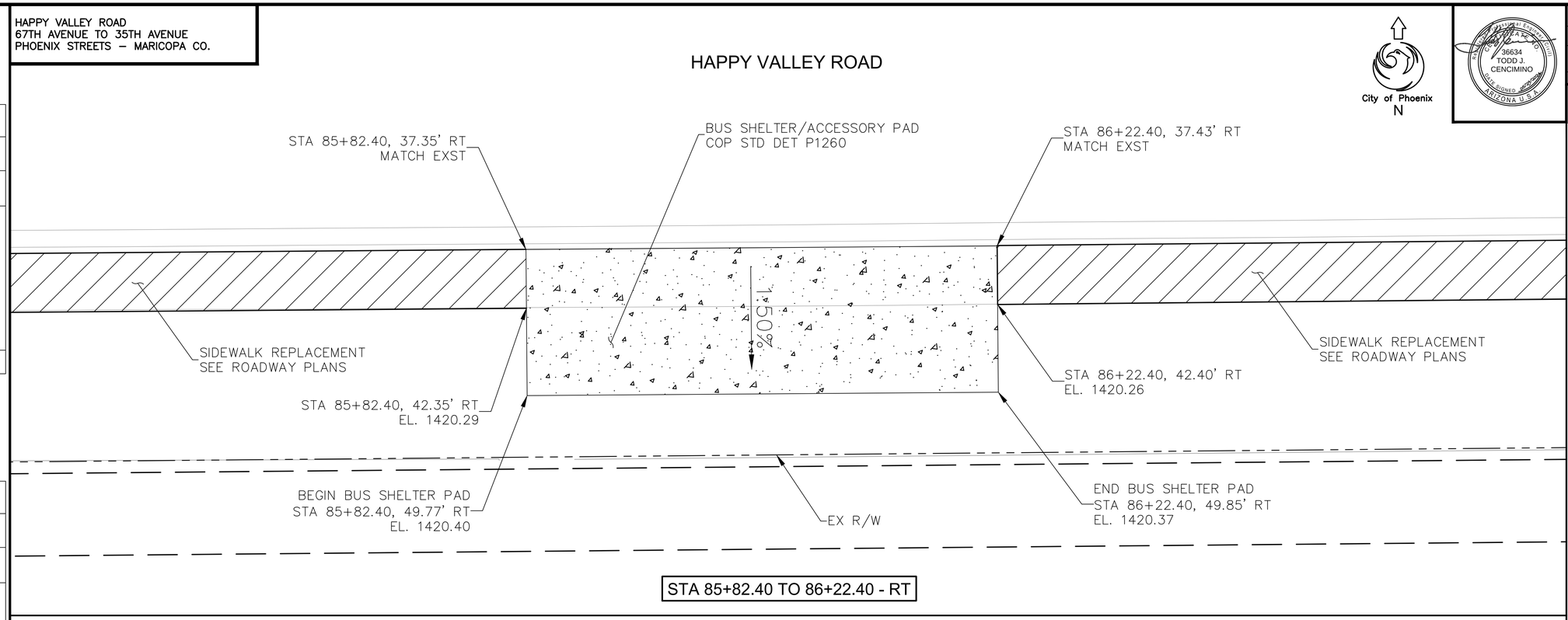
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

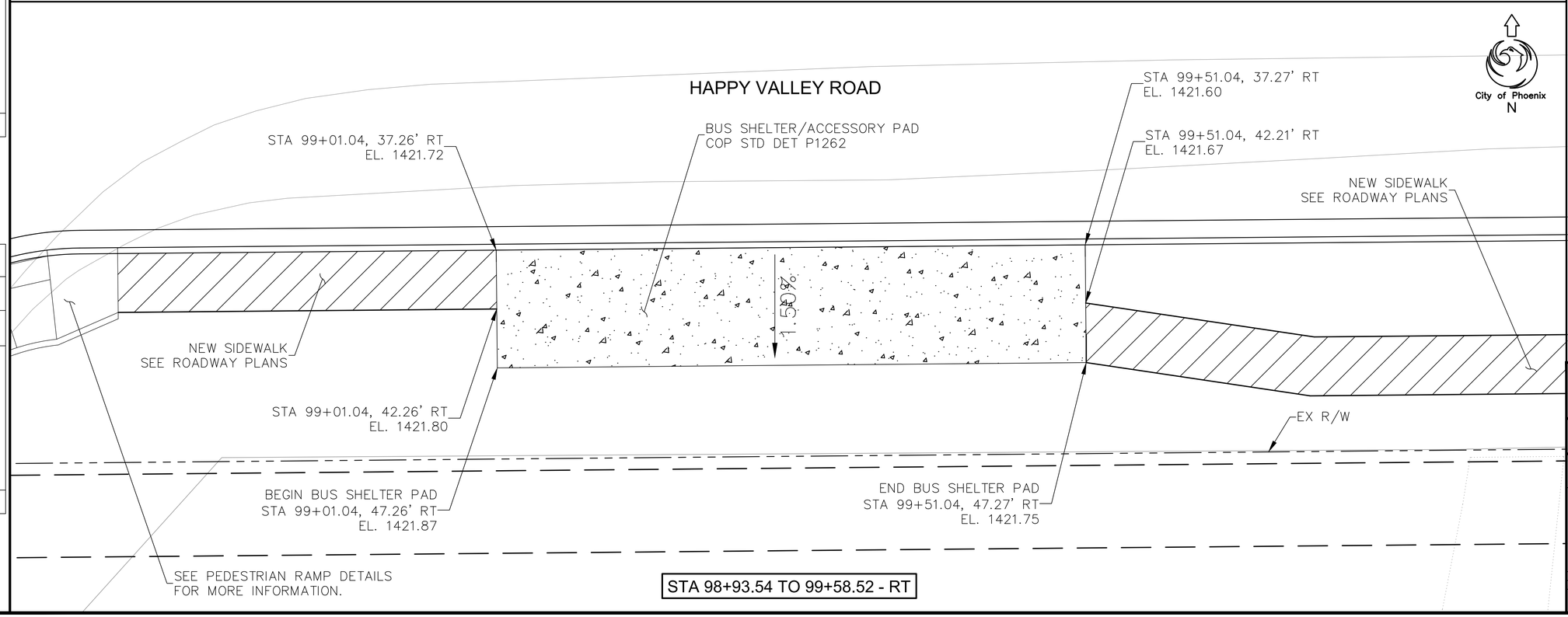
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



STA 85+82.40 TO 86+22.40 - RT



STA 98+93.54 TO 99+58.52 - RT

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	167	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

NOTES:

1. SIDEWALK REMOVAL LIMIT TO NEAREST EXISTING JOINT WHEN SIDEWALK IS INSTALLED OUTSIDE OF SIDEWALK LIMIT.
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BUS SHELTER PAD DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-2.04
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			167 OF 364

SHEET NAME: ST85100437C204.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

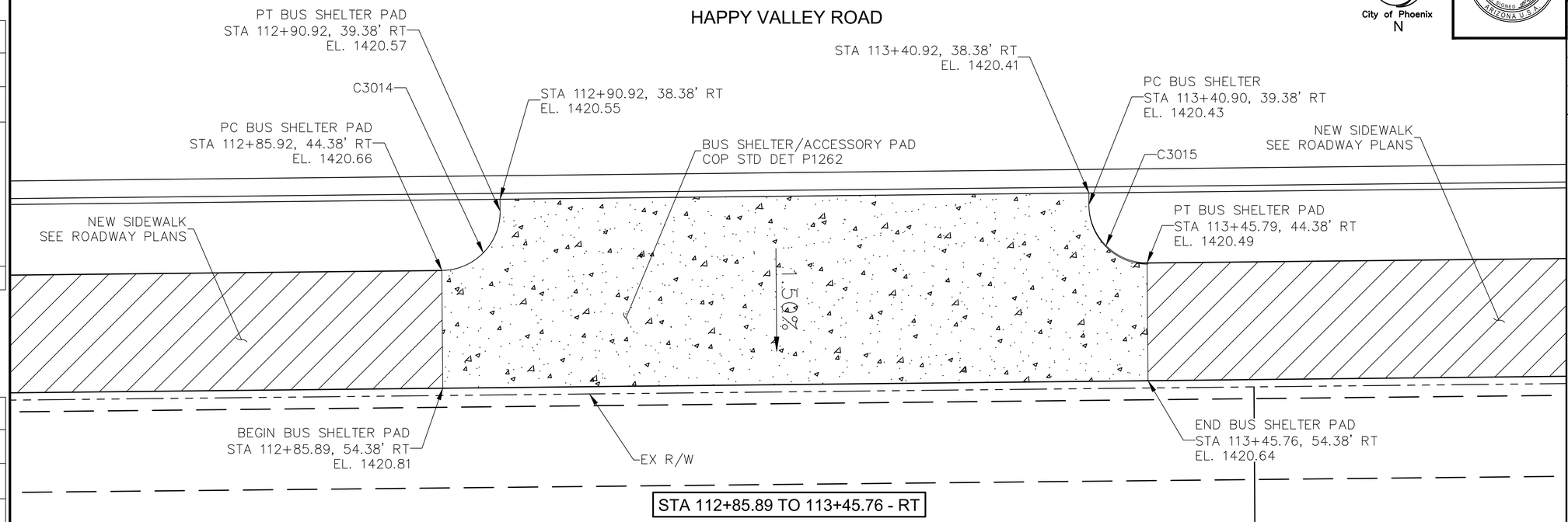
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

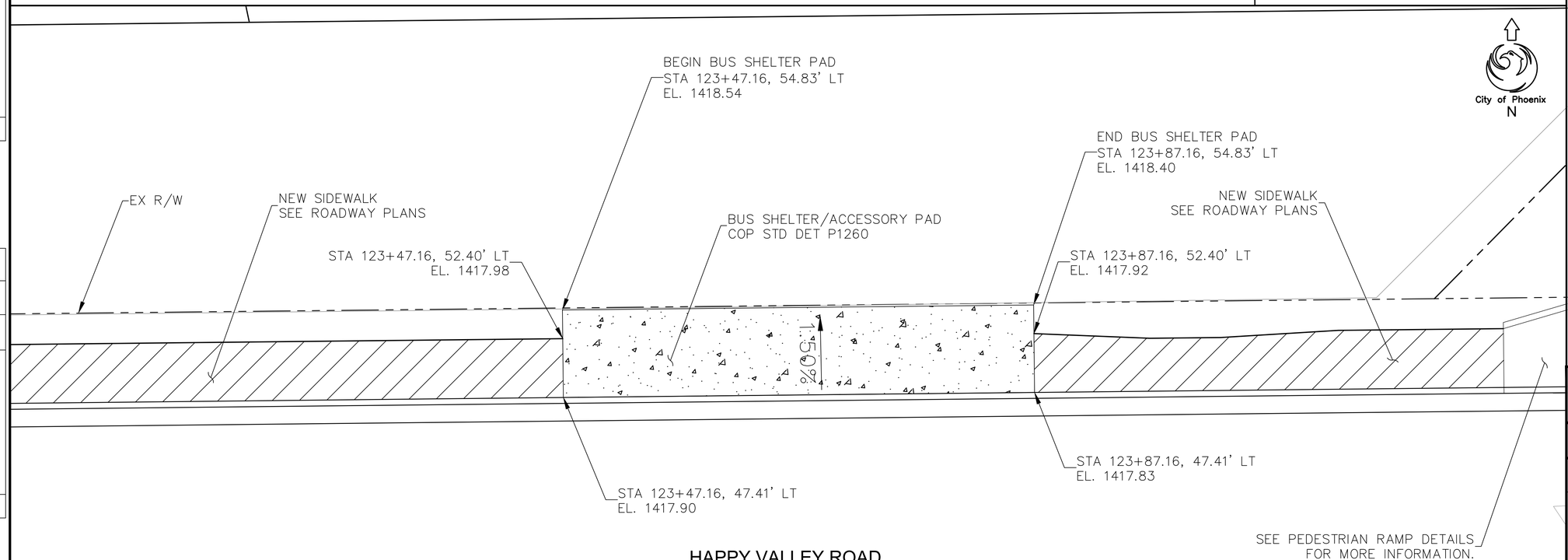
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

HAPPY VALLEY ROAD



STA 112+85.89 TO 113+45.76 - RT



HAPPY VALLEY ROAD

STA 123+47.16 TO 123+87.16 - LT

City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	168	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C3014	7.854	5.000	089°59'57"
C3015	7.749	5.000	088°47'33"

NOTES:

1. SIDEWALK REMOVAL LIMIT TO NEAREST EXISTING JOINT WHEN SIDEWALK IS INSTALLED OUTSIDE OF SIDEWALK LIMIT.
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BUS SHELTER PAD DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

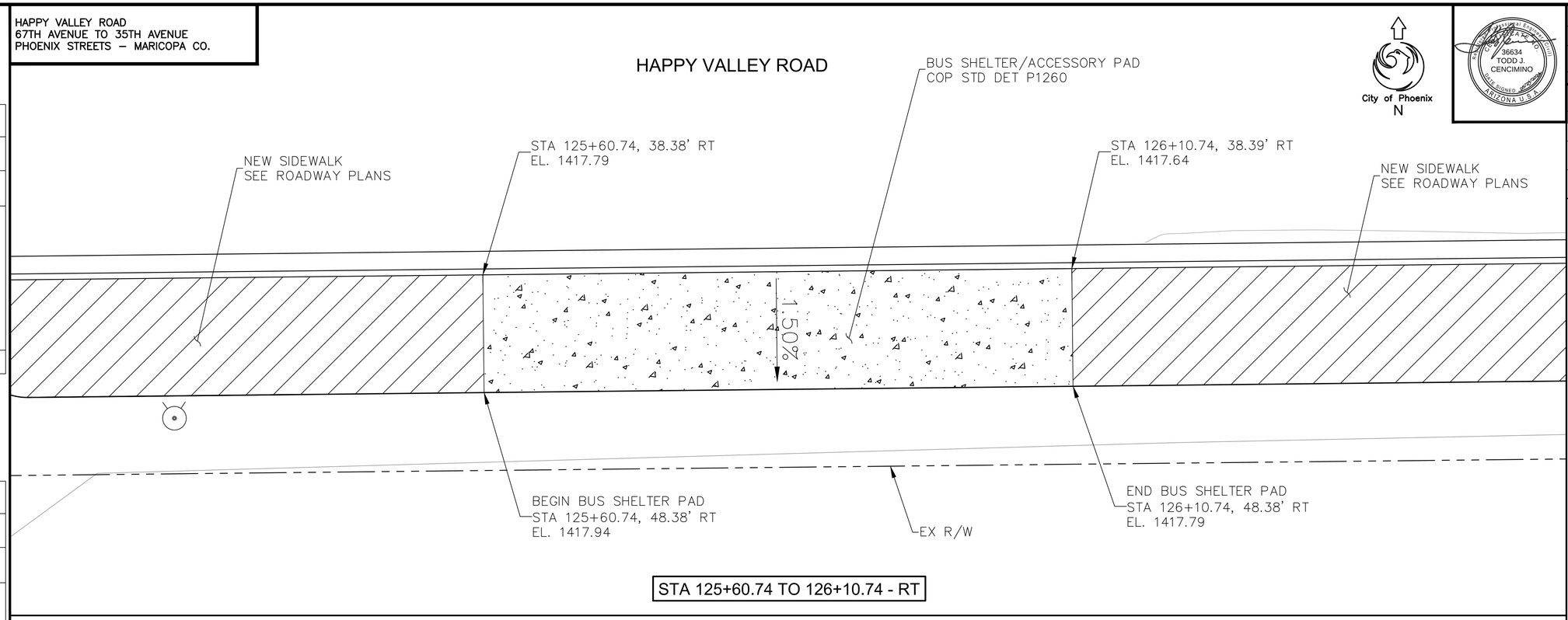
DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-2.05
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			168 OF 364

SHEET NAME: ST85100437C205.DWG, PLOT DATE: 5/28/2024

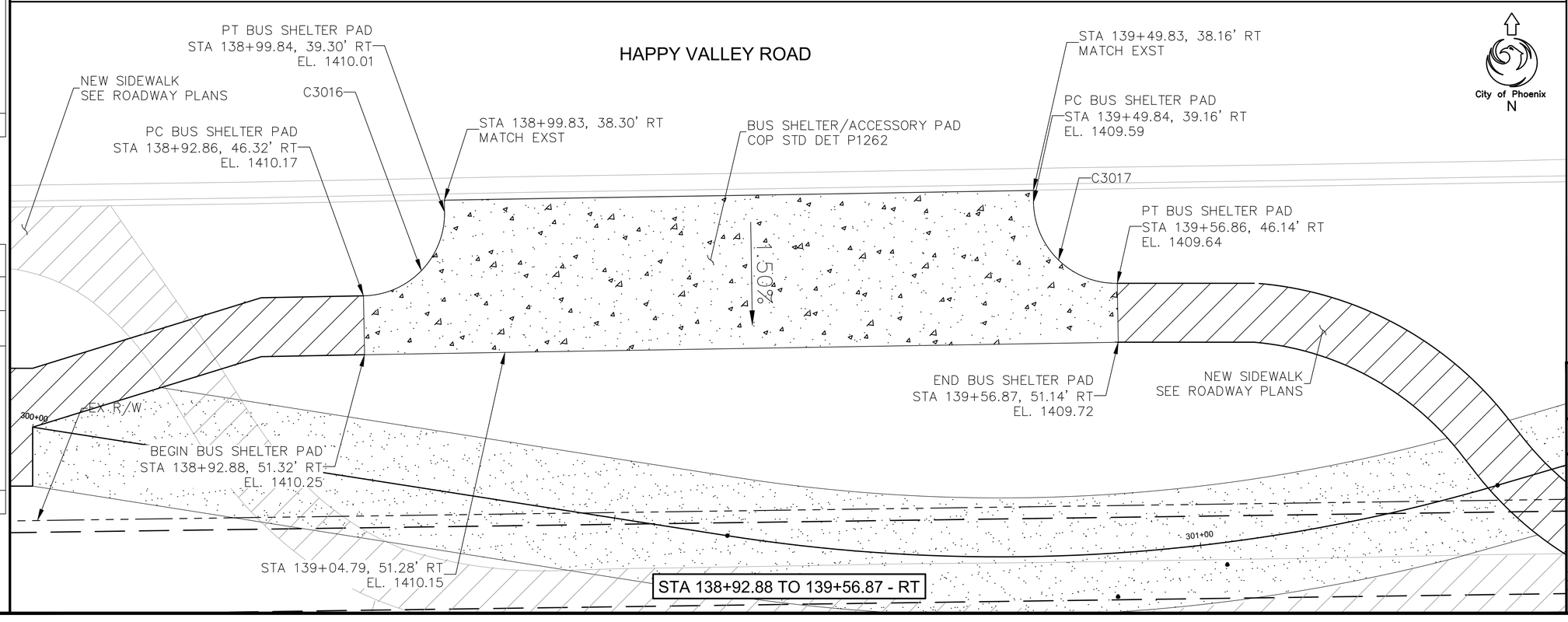
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



STA 125+60.74 TO 126+10.74 - RT



STA 138+92.88 TO 139+56.87 - RT

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	169	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA, U.S.A.

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C3016	10.996	7.000	090°00'00"
C3017	10.996	7.000	090°00'00"

NOTES:

1. SIDEWALK REMOVAL LIMIT TO NEAREST EXISTING JOINT WHEN SIDEWALK IS INSTALLED OUTSIDE OF SIDEWALK LIMIT.
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BUS SHELTER PAD DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

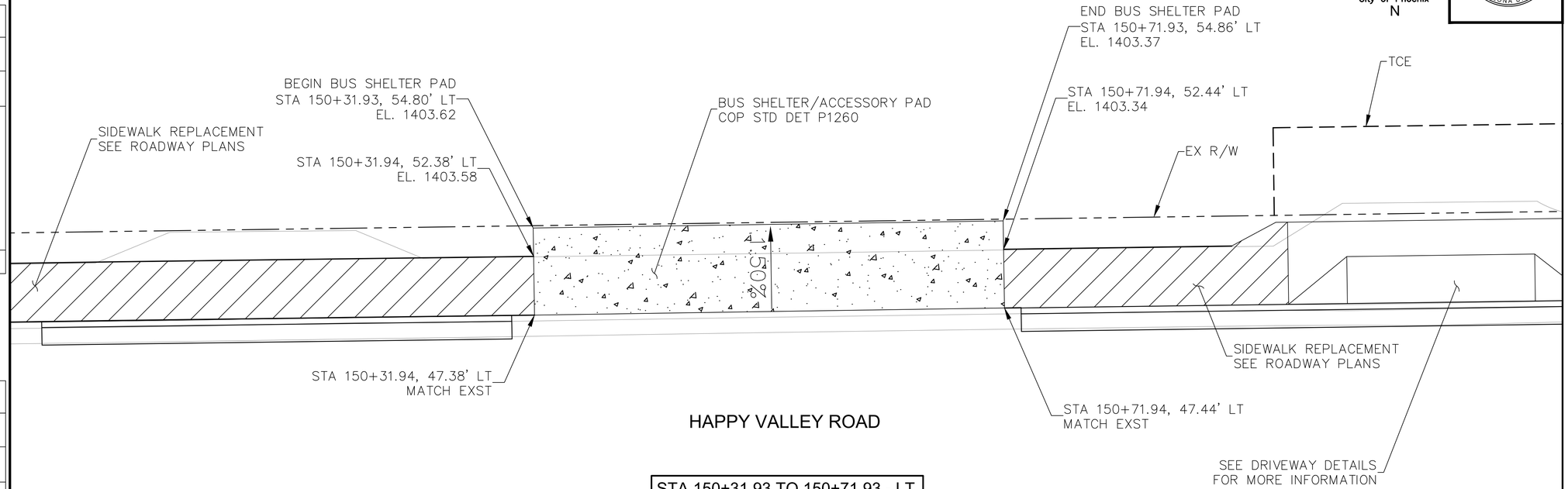
DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-2.06
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			169 OF 364

SHEET NAME: ST85100437C206.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

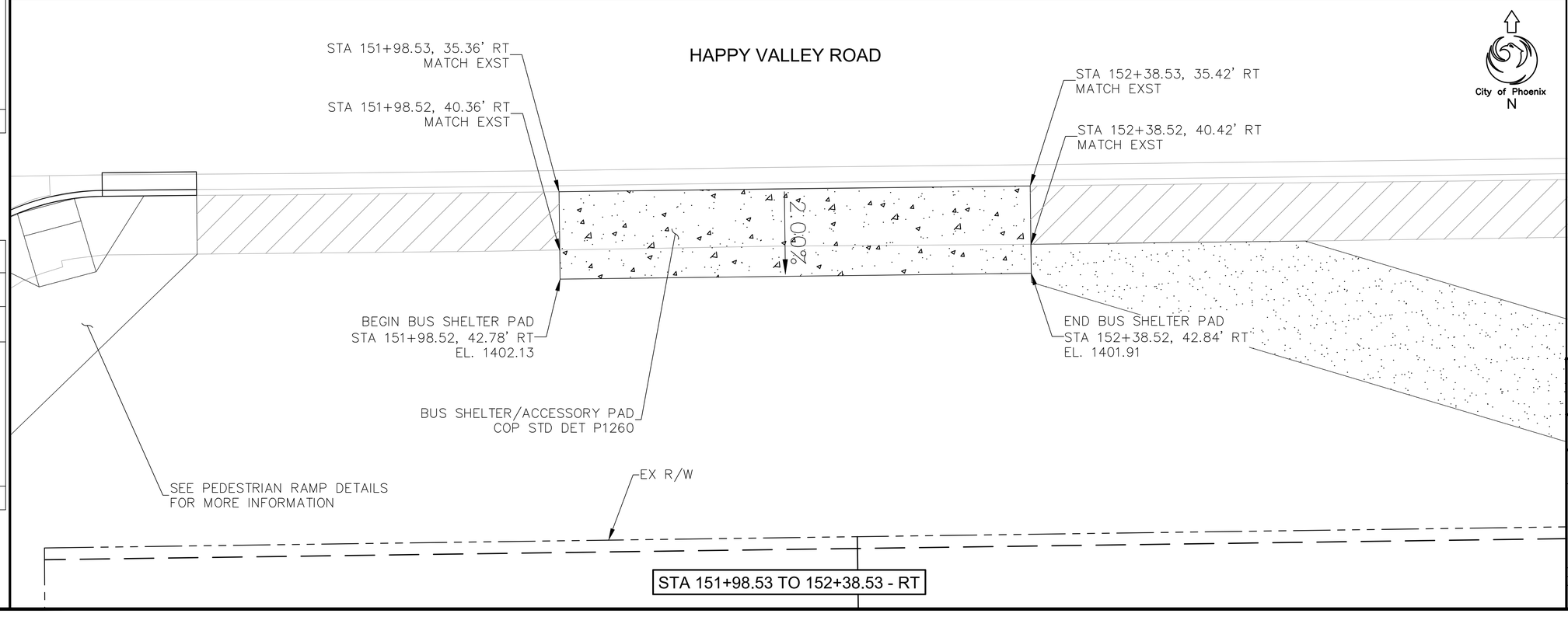


HAPPY VALLEY ROAD

STA 150+31.93 TO 150+71.93 - LT

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



STA 151+98.53 TO 152+38.53 - RT

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	170	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

NOTES:

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BUS SHELTER PAD DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-2.07
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			170 OF 364

SHEET NAME: ST85100437C207.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

HAPPY VALLEY ROAD

City of Phoenix
N

STA 165+92.00, 37.73' RT
MATCH EXST

STA 165+92.00, 42.69' RT
MATCH EXST

STA 166+32.00, 37.74' RT
MATCH EXST

STA 166+32.00, 42.70' RT
MATCH EXST

SIDEWALK REPLACEMENT
SEE ROADWAY PLANS

BEGIN BUS SHELTER PAD
STA 165+92.00, 50.15' RT
EL. 1397.49

BUS SHELTER/ACCESSORY PAD
COP STD DET P1260

BEGIN BUS SHELTER PAD
STA 166+32.00, 50.15' RT
EL. 1397.60

12.00'

EX R/W

STA 165+92.00 TO 166+32.00 - RT

EX R/W

City of Phoenix
N

BEGIN BUS SHELTER PAD
STA 174+95.80, 65.28' LT
MATCH EXST

BUS SHELTER/ACCESSORY PAD
COP STD DET P1262

END BUS SHELTER PAD
STA 175+61.77, 66.63' LT
MATCH EXST

22.00'

PC BUS SHELTER PAD
STA 174+95.88, 60.28' LT
MATCH EXST

PT BUS SHELTER PAD
STA 175+61.87, 61.63' LT
MATCH EXST

C3018

C3019

PT BUS SHELTER PAD
STA 175+04.03, 52.45' LT
MATCH EXST

SIDEWALK REPLACEMENT
SEE ROADWAY PLANS

PC BUS SHELTER
STA 175+54.03, 53.33' LT
MATCH EXST

HAPPY VALLEY ROAD

STA 174+95.80 TO 175+61.77 - LT

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	171	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634
TODD J.
CENCIMINO
DATE SIGNED 05/28/24
ARIZONA U.S.A.

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C3018	12.554	8.000	089°54'53"
C3019	12.719	8.000	091°05'41"

NOTES:

1. SIDEWALK REMOVAL LIMIT TO NEAREST EXISTING JOINT WHEN SIDEWALK IS INSTALLED OUTSIDE OF SIDEWALK LIMIT.
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BUS SHELTER PAD DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-2.08
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			171 OF 364

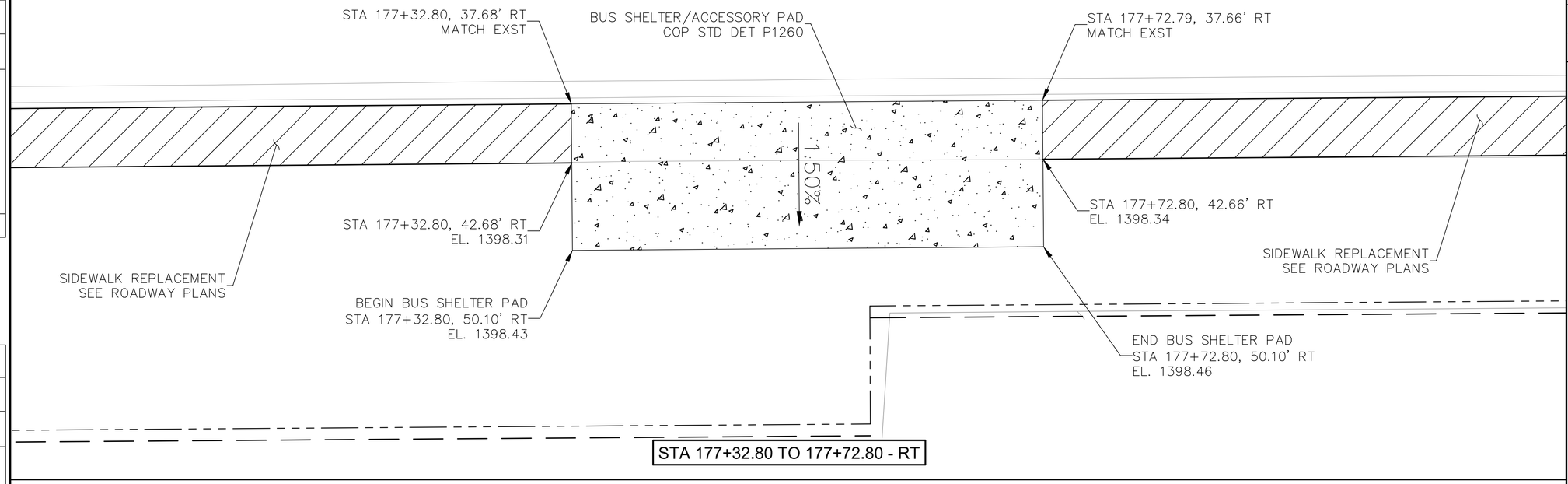
SHEET NAME: ST85100437C208.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

HAPPY VALLEY ROAD



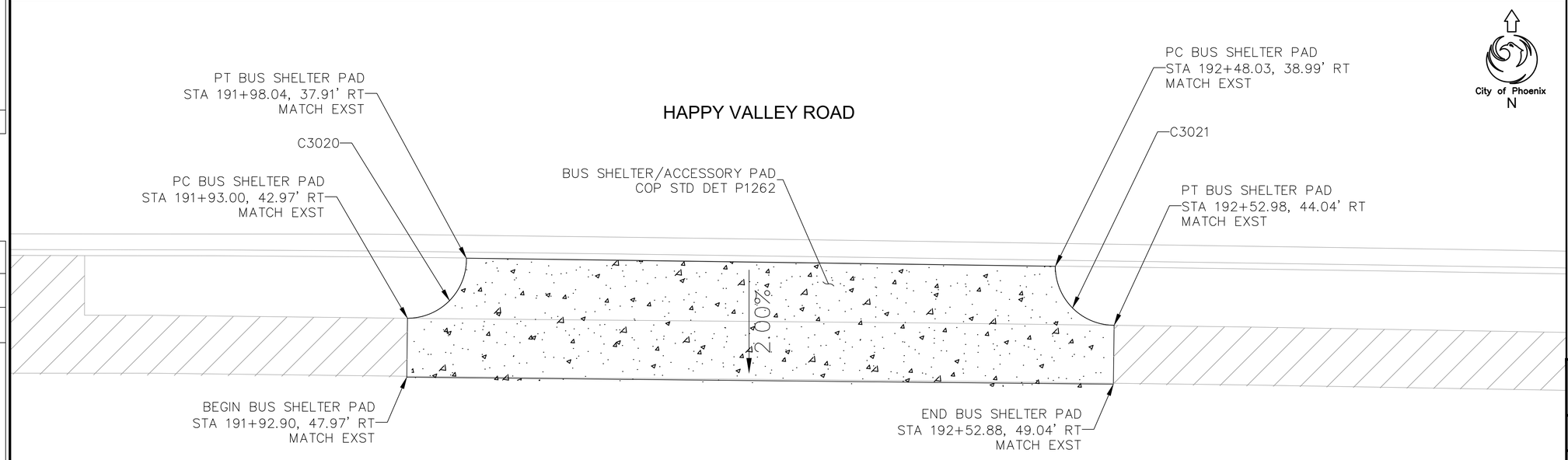
STA 177+32.80 TO 177+72.80 - RT

City of Phoenix
N

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

HAPPY VALLEY ROAD



STA 191+92.90 TO 192+52.88 - RT

City of Phoenix
N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	172	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C3020	7.955	5.000	091°09'21"
C3021	7.852	5.000	089°58'54"

NOTES:

1. SIDEWALK REMOVAL LIMIT TO NEAREST EXISTING JOINT WHEN SIDEWALK IS INSTALLED OUTSIDE OF SIDEWALK LIMIT.
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BUS SHELTER PAD DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

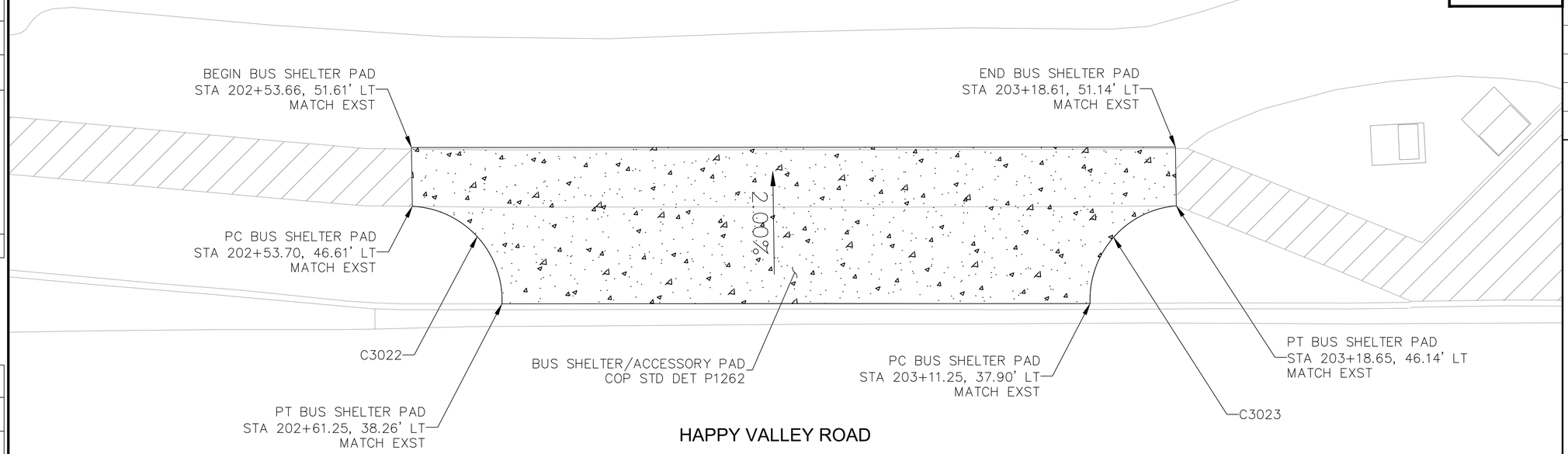
DR: RJN	DES: ASF	CK: TJC	DWG. NO. C-2.09
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			172 OF 364

SHEET NAME: ST85100437C209.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

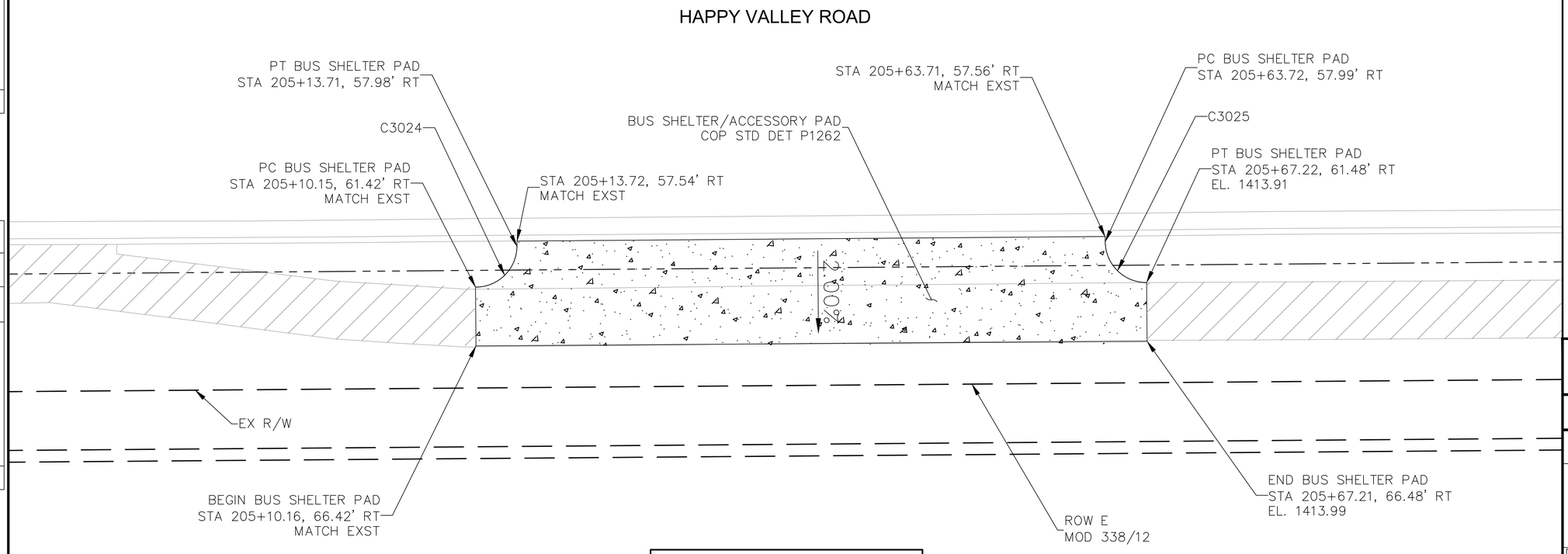


HAPPY VALLEY ROAD

STA 202+53.66 TO 203+18.61 - LT

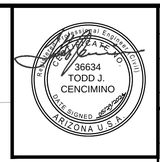
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



STA 205+10.16 TO 205+67.22 - RT

City of Phoenix
N



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	174	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

CURVE DATA

CURVE #	LENGTH	RADIUS	DELTA
C3022	12.491	8.000	089°27'34"
C3023	12.236	8.000	087°37'59"
C3024	5.493	3.500	089°55'28"
C3025	5.493	3.500	089°55'28"

NOTES:

1. SIDEWALK REMOVAL LIMIT TO NEAREST EXISTING JOINT WHEN SIDEWALK IS INSTALLED OUTSIDE OF SIDEWALK LIMIT.
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BUS SHELTER PAD DETAIL

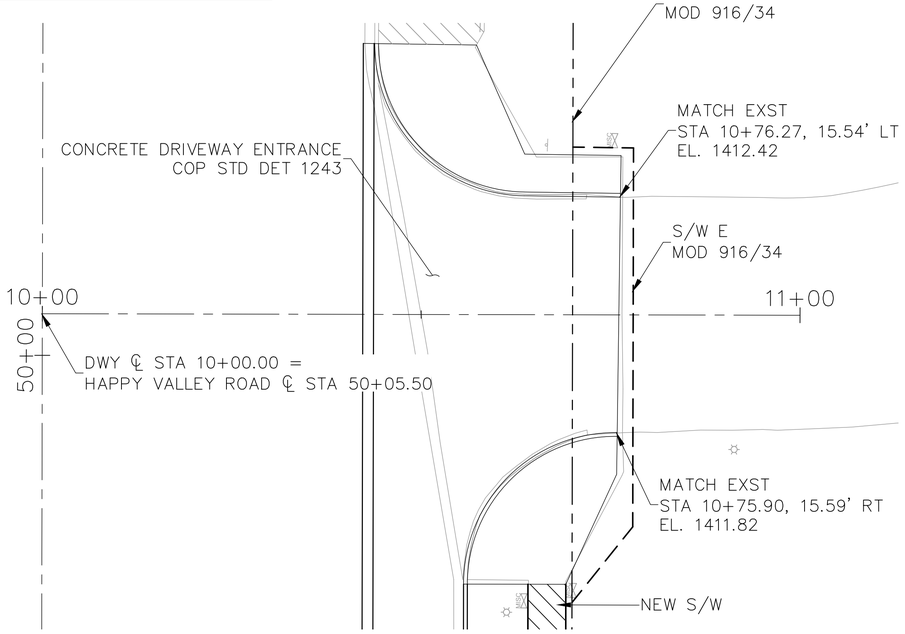
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

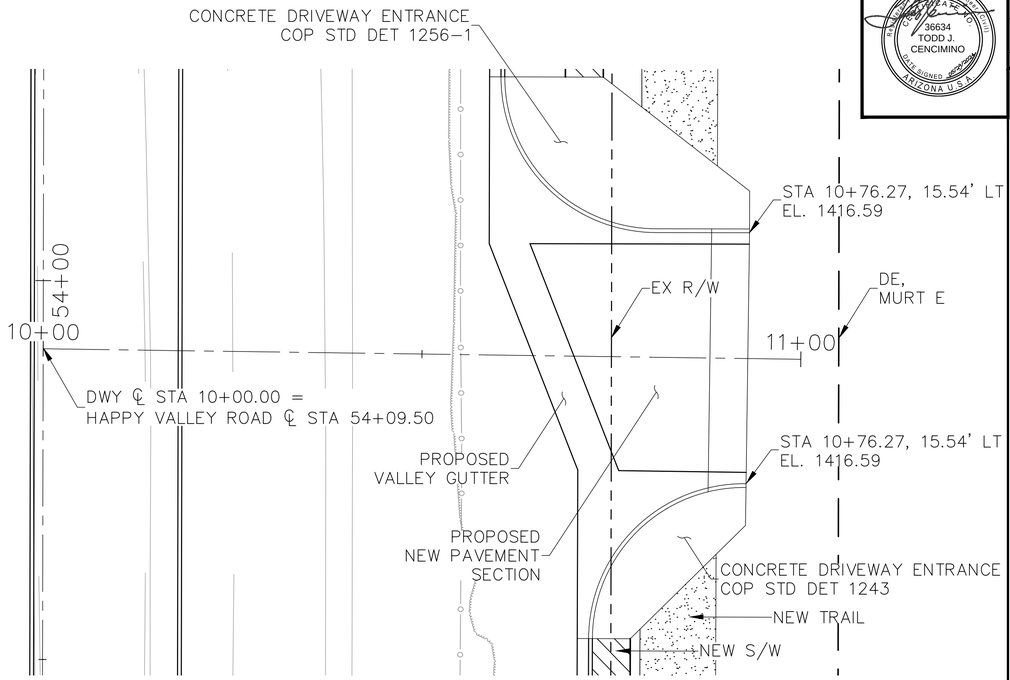
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DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 5' HORIZONTAL			173 OF 364

SHEET NAME: ST85100437C210.DWG, PLOT DATE: 5/28/2024

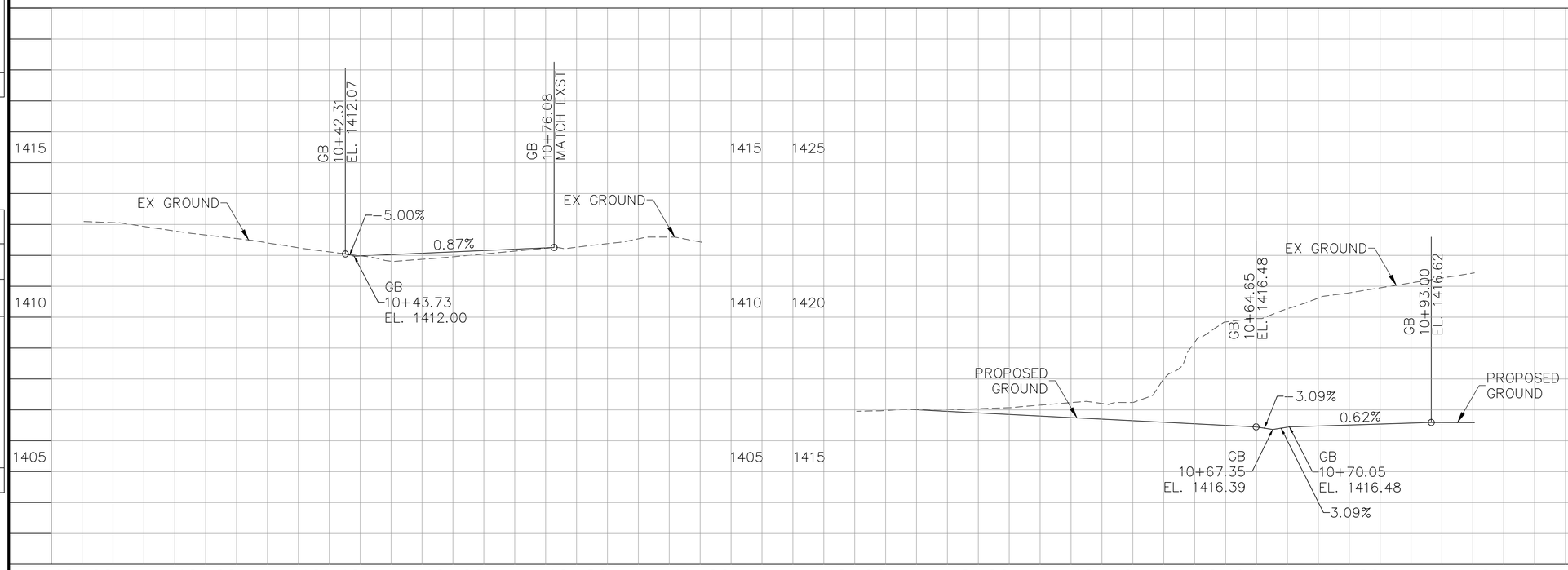
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



DRIVEWAY STA. 50+05.50 - RT



DRIVEWAY STA. 54+09.00 - LT



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	174	368	

05/2024 DATE:

WILSON & COMPANY 110 North 44th Street Phoenix, Arizona 85008

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

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DRIVEWAY PROFILE

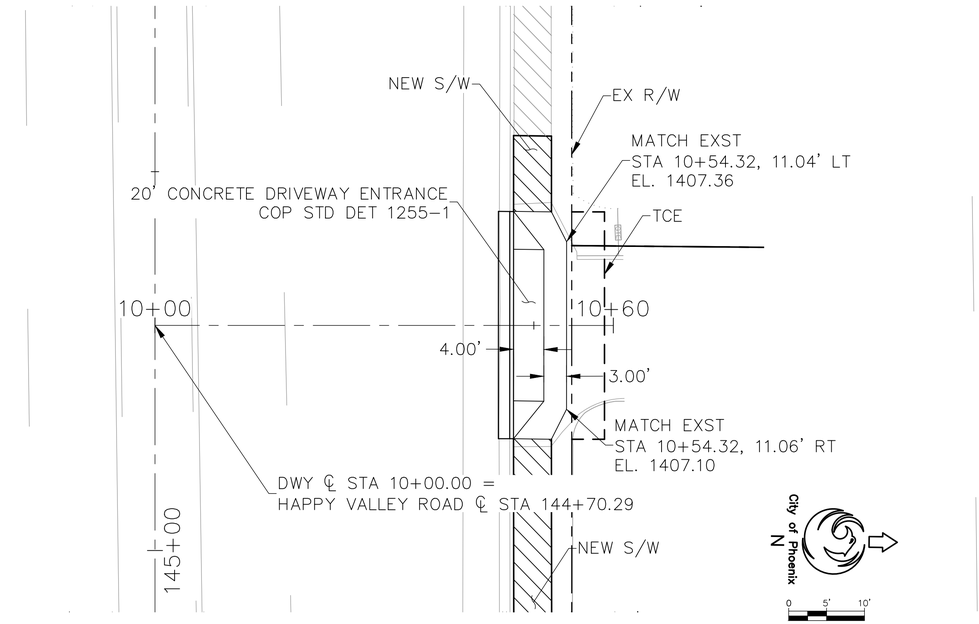
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

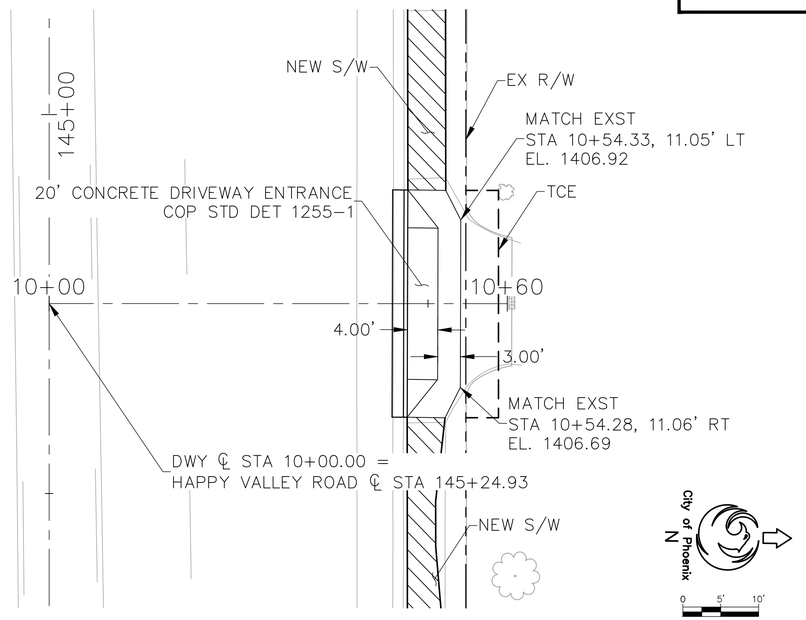
DR: RJN	DES: ASF	CK: TJC	DWG. NO. DP-1.01
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL, 2' VERTICAL			174 OF 364

SHEET NAME: ST85100437DP.DWG, PLOT DATE: 5/28/2024

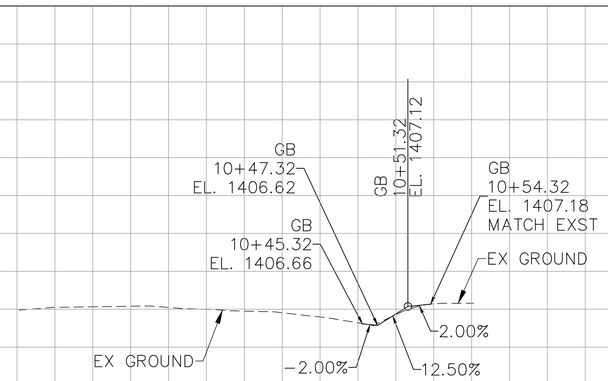
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

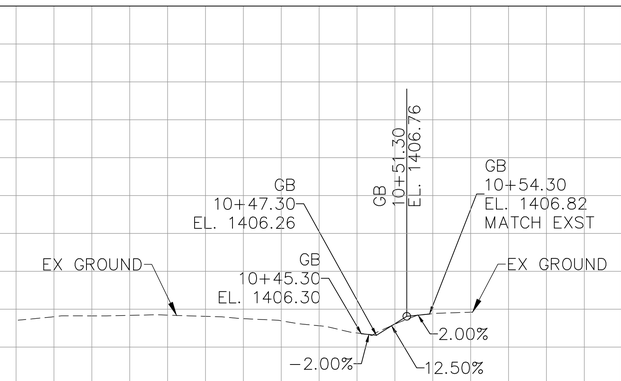


DRIVEWAY STA. 144+70.29 - LT



DRIVEWAY STA. 145+24.93 - LT





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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

36634
TODD J.
CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	175	368	

05/2024
DATE:

WILSON & COMPANY
410 North 44th Street
Phoenix, Arizona 85008

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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DRIVEWAY PROFILE

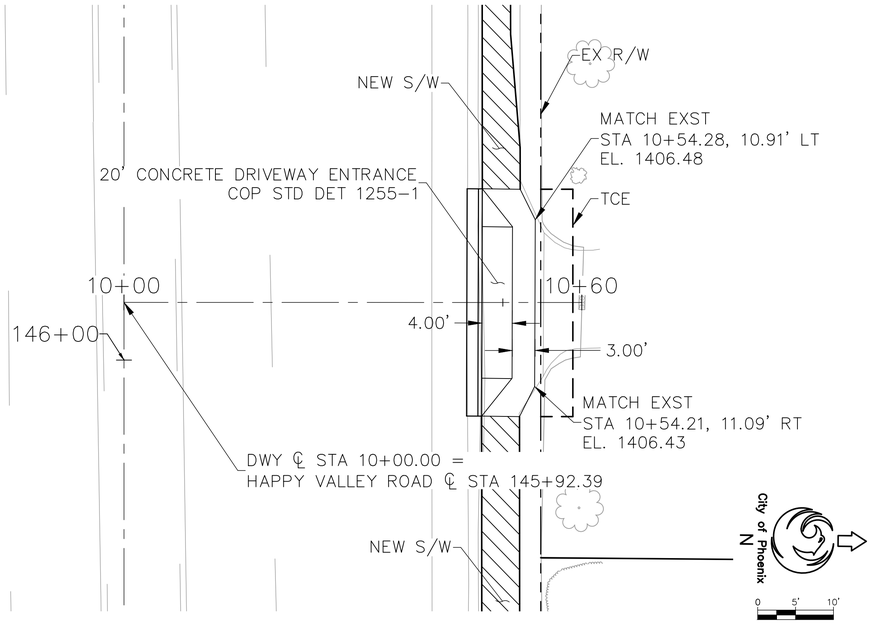
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

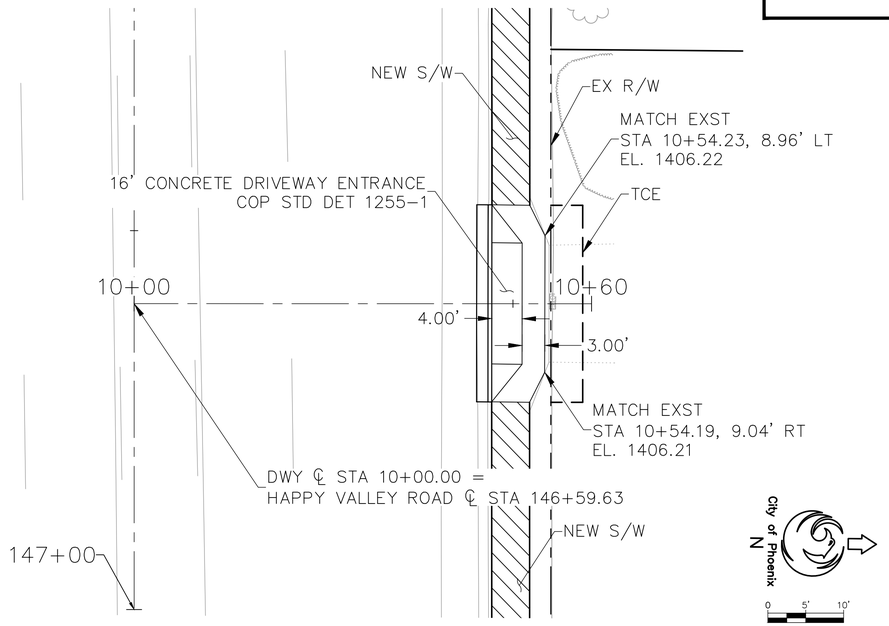
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DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL 2' VERTICAL			175 OF 364

SHEET NAME: ST85100437DP.DWG, PLOT DATE: 5/28/2024

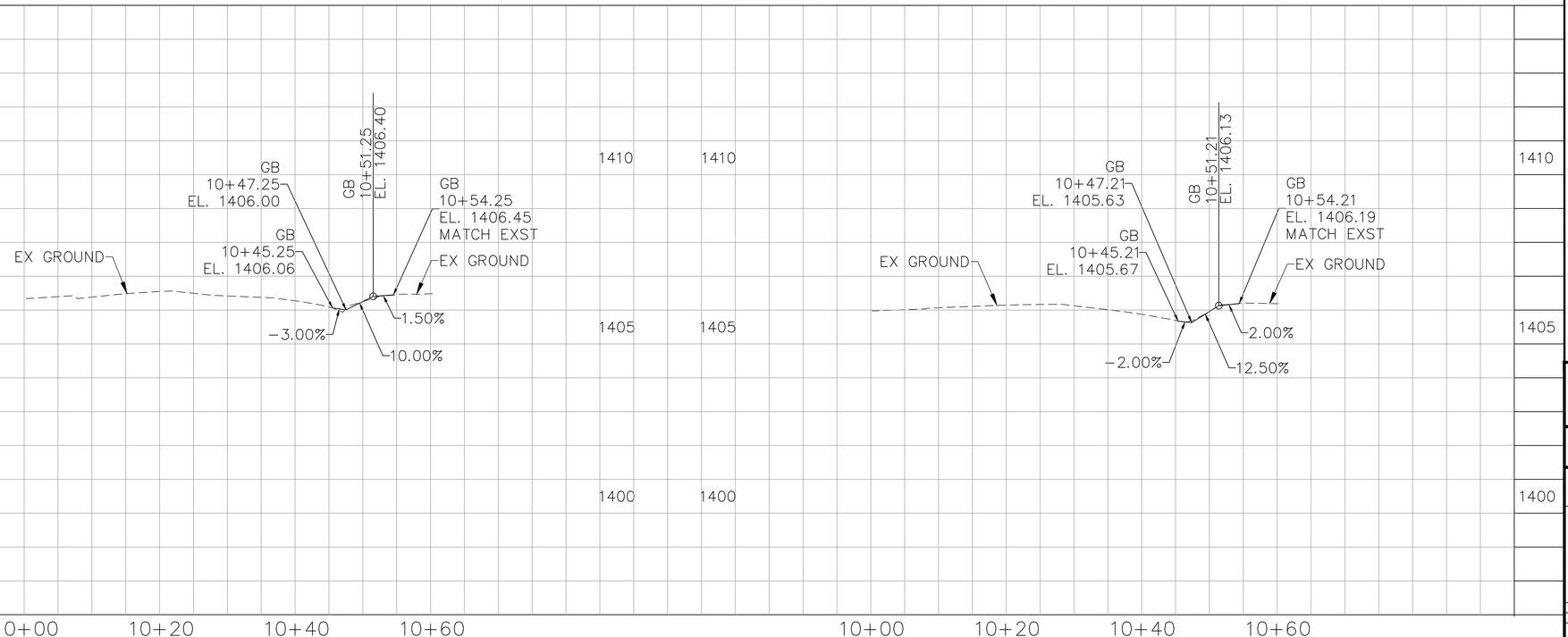
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



DRIVEWAY STA. 145+92.39 - LT



DRIVEWAY STA. 146+59.63 - LT



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NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	176	368	

05/2024
DATE:

WILSON & COMPANY
410 North 44th Street
Phoenix, Arizona 85008

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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DRIVEWAY PROFILE

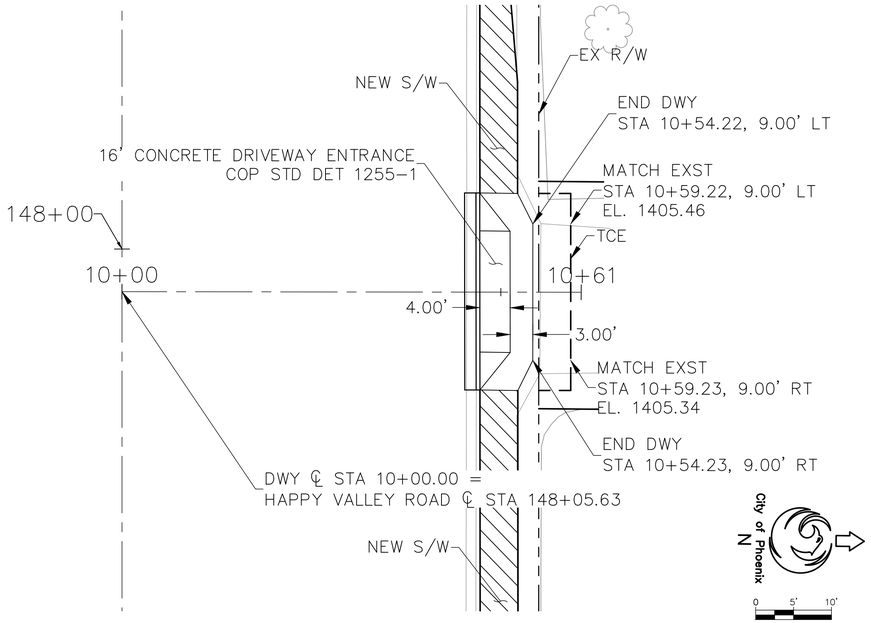
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

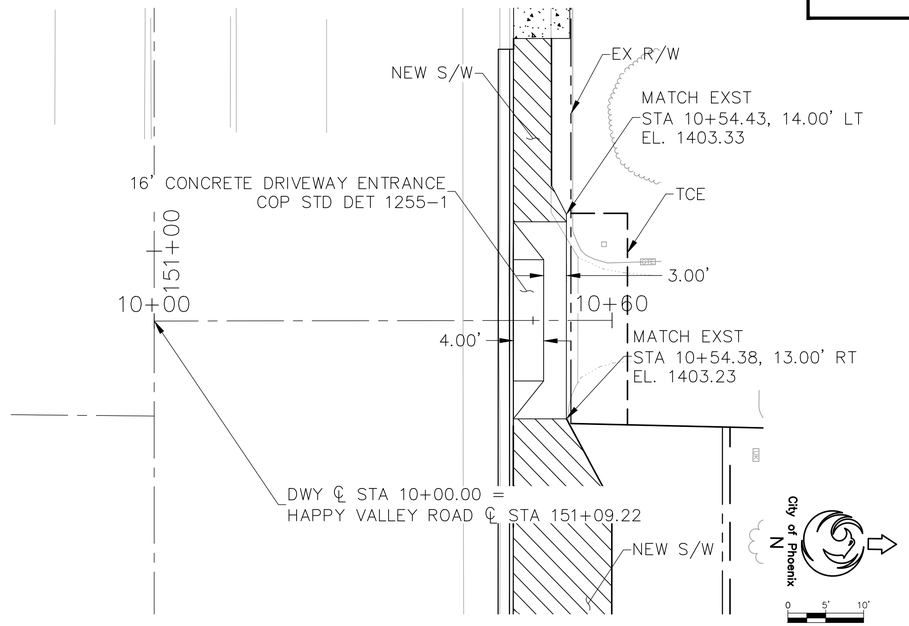
DR: RJN	DES: ASF	CK: TJC	DWG. NO. DP-1.03
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL 2' VERTICAL			176 OF 364

SHEET NAME: ST85100437DP.DWG, PLOT DATE: 5/28/2024

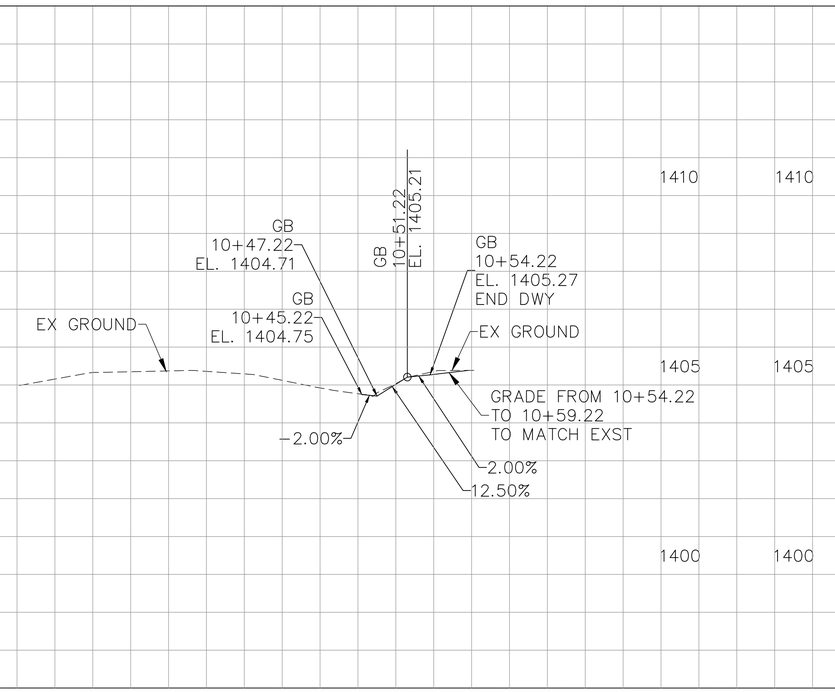
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

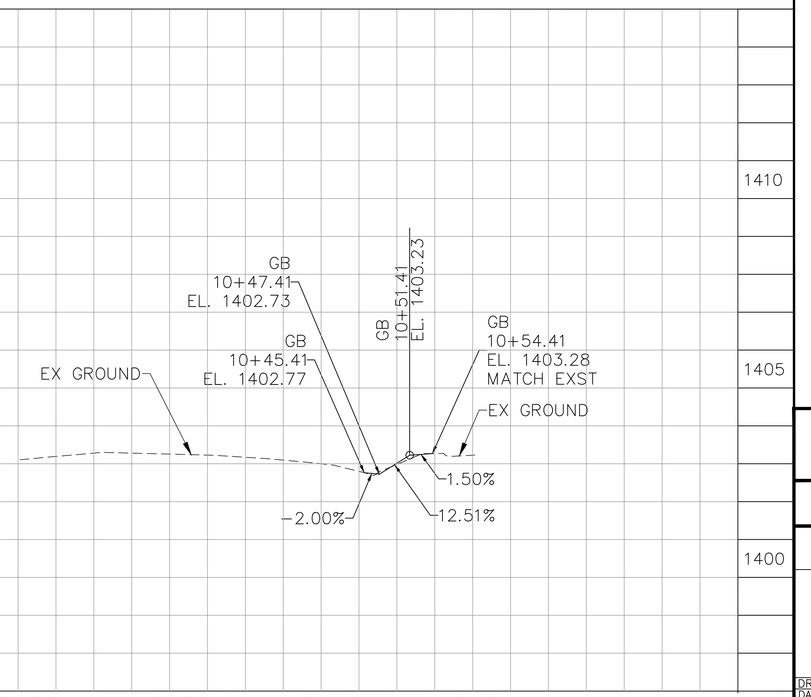


DRIVEWAY STA. 148+05.63 - LT



DRIVEWAY STA. 151+09.22 - LT





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NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
REGISTERED
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	177	368	

05/2024
DATE:

WILSON & COMPANY
410 North 44th Street
Phoenix, Arizona 85008

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

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DRIVEWAY PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. DP-1.04
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL 2' VERTICAL			177 OF 364

SHEET NAME: ST85100437DP.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

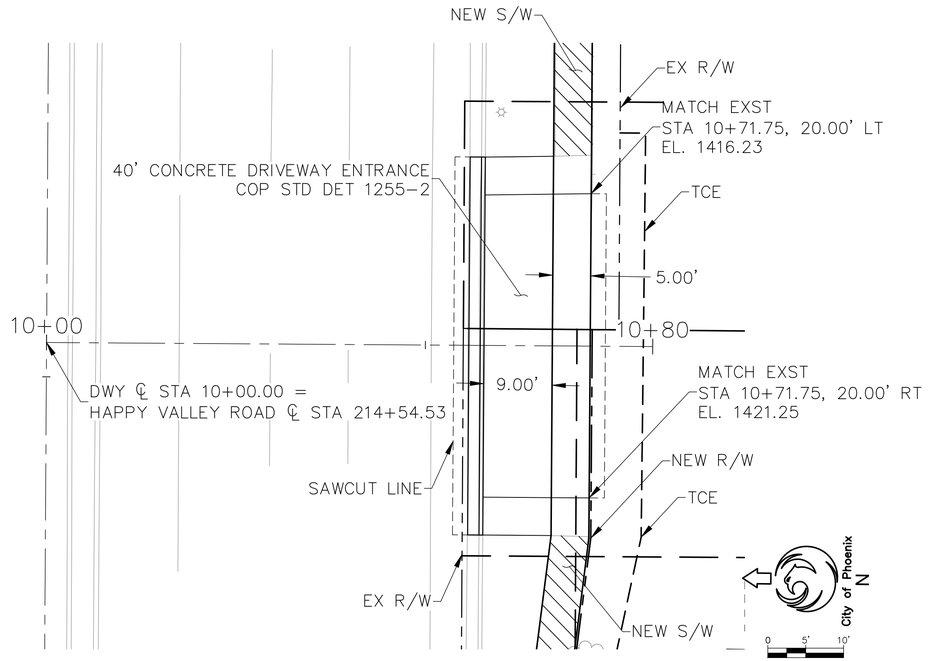
NO.	DESCRIPTION	REV BY	CKD BY	DATE

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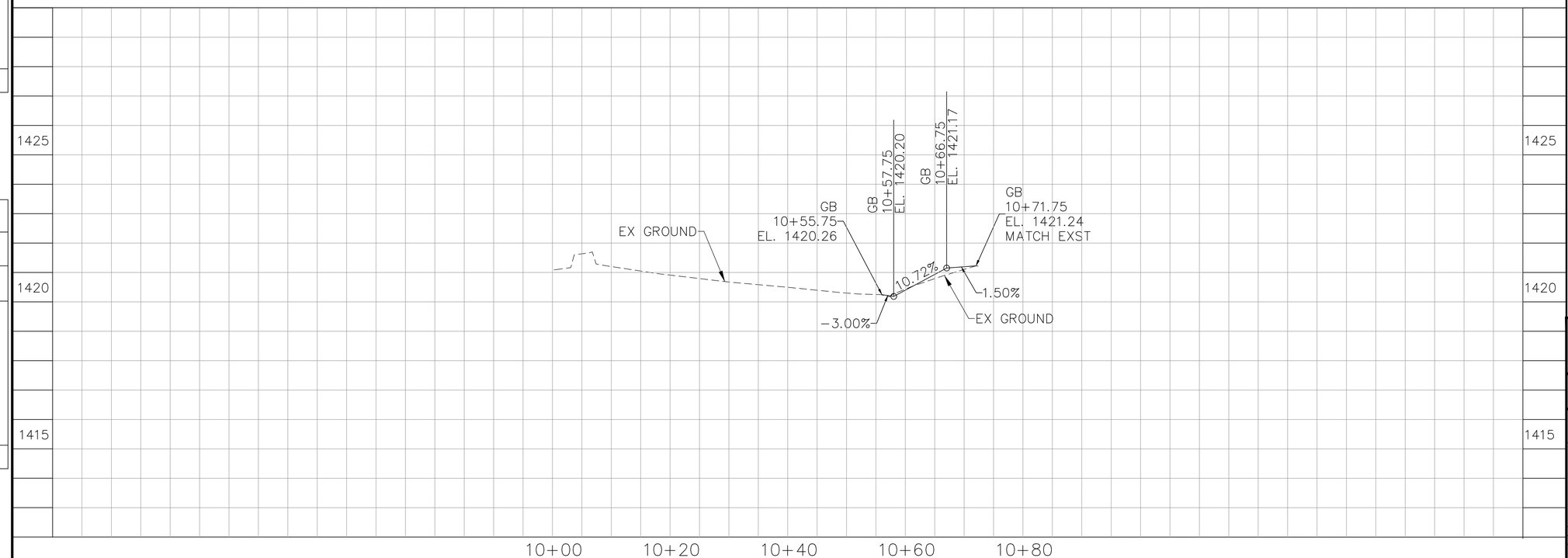
NO.	DESCRIPTION	REV BY	CKD BY	DATE

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NO.	DESCRIPTION	REV BY	CKD BY	DATE



DRIVEWAY STA. 214+54.53 - RT



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	178	368	

05/2024
DATE:

WILSON & COMPANY
410 North 44th Street
Phoenix, Arizona 85008

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634
TODD J.
CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.

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DRIVEWAY PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. DP-1.05
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL 2' VERTICAL			178 OF 364

SHEET NAME: ST85100437DP.DWG, PLOT DATE: 5/28/2024

HAPPY VALLEY ROAD

PHOENIX STREET – MARICOPA CO.

67TH AVE – 35TH AVE

STREET TRANSPORTATION STORM DRAIN DESIGN SUMMARY SHEET

STORM DRAINAGE DESIGN DATA PROJECT ST LOCATION

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 70671 CAMERON RAGAN Date Signed 5/23/24 ORIGINAL DOCUMENT IS SIGNED AND SEALED

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ	ST85100437	179	368	

5/24 DATE

AZTEC TYPSA

DESIGN: LNB DRAWN: FCS CHECKED: CJR

AREA NO. / INLET NO.	INLET STA.	AREA – ACRES: TOTAL AREA ACRES	AREA – ACRES: C FACTOR	AREA – ACRES: IMPROV. AREA CA	INFILTRATION in. / hr. f_c	FOR CONCENTRATION TIME: STREET SLOPE ft. / ft.	FOR CONCENTRATION TIME: MAX. DIST.	T_C MIN.	INLET I	RUNOFF TO INLET Q = C.I.A.	AVERAGE UPSTREAM GUTTER SLOPE ft. / ft.	CROSS SLOPE AT INLET ft. / ft.	FLOWBY TO THIS CATCH BASIN	FLOW BY + RUNOFF (Q)	DEPTH OF WATER UPSTREAM GUTTER	WIDTH OF WATER IN STREET	GUTTER VELOCITY	DEPTH OF SUMP IF A SUMP	INLET TYPE	Q ACCEPTED BY C.B.	FLOWBY	TO INLET NO.	T_{C2} MAIN STORM DRAIN: TOTAL AREA IMPER.	T_{C2} MAIN STORM DRAIN: T_C (MIN.)	MAIN STORM DRAIN: I	MAIN STORM DRAIN: Q_2	SLOPE MAIN STORM DRAIN ft. / ft.	SIZE MAIN STORM DRAIN	VELOCITY MAIN STORM DRAIN f.p.s.	LENGTH MAIN STORM DRAIN	△ T_{C2} MIN.	ELEVATION: CROWN INLET	ELEVATION: CROWN OUTLET	HYDRAULIC GRADE LINE: S_f ft. / ft.	HYDRAULIC GRADE LINE: H_L ft.	HYDRAULIC GRADE LINE: ELEVATION INLET	HYDRAULIC GRADE LINE: ELEVATION OUTLET	HEAD BETWEEN 1.0' BELOW LIP GUTTER TO H.G. MAIN	LENGTH CONN. PIPE	DIA. CONN. PIPE	DEPTH CATCH BASIN
	Happy Valley Road Scuppers Centerline Station																																										
33+78.07, Lt		0.68	0.95	0.64	N/A	–	–	10.0	2.62	1.69	0.0117	0.0200	1.19	2.88	0.23	10.64	3.14	N/A	Triple MAG 206	1.39	1.49		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
40+90.80, Lt		0.64	0.95	0.61	N/A	–	–	10.0	2.62	1.60	0.0214	0.0200	0.64	2.24	0.17	8.65	3.70	N/A	Triple MAG 206	1.05	1.19		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
47+50.80, Lt		0.64	0.95	0.61	N/A	–	–	10.0	2.62	1.60	0.0128	0.0200	0.0	1.60	0.17	8.35	2.85	N/A	Triple MAG 206	0.96	0.64		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
60+70.23, Lt		0.63	0.95	0.60	N/A	–	–	10.0	2.62	1.57	0.0127	0.0200	0.0	1.57	0.16	8.15	2.81	N/A	Triple MAG 206	0.93	0.64		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
65+29.32, Lt		0.63	0.95	0.60	N/A	–	–	10.0	2.62	1.57	0.001	0.0200	1.26	2.83	0.25	12.0	2.81	0.27	Triple MAG 206	2.83	0.0		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
67+28.42, Lt		0.56	0.95	0.53	N/A	–	–	10.0	2.62	1.39	0.0230	0.0200	0.0	1.39	0.14	7.03	3.44	N/A	Triple MAG 206	0.77	0.62		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
132+09.54, Lt		N/A	N/A	N/A	N/A	–	–	–	–	–	–	–	–	–	–	–	–	N/A	MOD. MAG 206	–	–		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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STORM DRAIN SUMMARY

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: LNB	DES: FCS	CK: CJR	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 5/24	DATE: 5/24	DATE: 5/24	179	364	

SHEET NAME: ST85100437SDS1.DWG, PLOT DATE: 4/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

STORM DRAIN
ALTERNATE PIPE MATERIAL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 70671 CAMERON RAGAN Date Signed 5/24/24 ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	180	368	

5/24 DATE:

AZTEC TYPSA

DRAWN: LNB | DESIGN: FCS | CHECKED: CJR

MAIN LINE PIPE

STATION FROM	STATION TO	QUANTITY L.F.	PIPE DIAMETER RGRCP (I.D.) IN.	PIPE DIAMETER HDPE (I.D.) IN.	PIPE DIAMETER CIPP & C.M.P. (I.D.) IN.	DEPTH TO TOP OF PIPE MIN. (FT.)	DEPTH TO TOP OF PIPE MAX. (FT.)	MAX TRENCH WIDTH AT TOP OF PIPE RGRCP & CMP HDPE FT.	RGRCP ASTM C76 CLASS	CAST–IN–PLACE CONCRETE PIPE MINIMUM WALL THICKNESS IN.	CORRUGATED METAL PIPES
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

CONNECTOR PIPE

LOCATION STATION (LT. or RT.)	QUANTITY L.F.	DEPTH TO TOP OF PIPE MIN. (FT.)	DEPTH TO TOP OF PIPE MAX (FT.)	PIPE DIA. RGRCP (I.D.) IN.	RGRCP ASTM C76 CLASS	C.M.P.
66+66.51, 92.85 LT	39	1.0	2.6	23"x14"	V	N/A
66+43.07, 60.25 LT	113	1.1	1.9	23"x14"	V	N/A
66+43.47, 52.34 RT	35	1.0	2.0	18"	IV	N/A

GENERAL NOTES:

1. ONLY PIPE MATERIALS SPECIFIED ON THIS SHEET ARE ACCEPTABLE FOR THIS PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING ANY CONFLICTS WITH STANDARD DETAILS AND UTILITIES ASSOCIATED WITH THE USE OF ANY ALTERNATE PIPE MATERIAL AT NO ADDITIONAL COST TO THE CITY.
2. WHERE MAXIMUM TRENCH WIDTH IS NOTED AS "UNRESTRICTED", PIPE STRENGTHS ARE SPECIFIED FOR A POSITIVE PROJECTING OR EMBANKMENT LOADING CONDITION. TRENCH WIDTH RESTRICTIONS FOR THE CAST–IN–PLACE CONCRETE PIPE OPERATION, SHALL COMPLY WITH SECTION 620.
3. CITY POLICY REQUIRES THAT CAST–IN–PLACE PIPE AND CORRUGATED METAL PIPE MAINLINES BE UPSIZED A MINIMUM OF 6–INCHES GREATER DIAMETER THAN THE SPECIFIED REINFORCED CONCRETE PIPE DIAMETER. IF EITHER OF THESE OPTIONS ARE USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLVING ANY UTILITY CONFLICTS ASSOCIATED WITH THE INCREASED PIPE DIAMETER. MINIMUM WALL THICKNESS FOR CAST–IN–PLACE PIPE SHALL BE 1/12 OF INSIDE DIAMETER PLUS ONE INCH, BASED ON THE UPSIZED DIAMETER.
4. A MINIMUM OF 14 GAUGE IS REQUIRED FOR ALL CMP BY CITY OF PHOENIX TO OBTAIN DESIGN LIFE REQUIREMENTS OF 75 YEARS TO FIRST PERFORATION.
5. WHERE NEW MAINLINE STORM DRAIN CONNECTION TO EXISTING MAINLINE SYSTEM IS REQUIRED, AND THE NEW MAINLINE IS LARGER THAN THE EXISTING, (SUCH AS NEW 6" OVERSIZED CIPP OR CMP CONNECTING TO EXISTING RGRCP), PIPE INVERTS SHALL BE MATCHED. IN ALL OTHER CASES, INSIDE TOP OF PIPE (CROWN) ELEVATIONS SHALL BE MATCHED.
6. PAY WIDTH SHALL BE BASED ON MAX TRENCH WIDTH AT TOP OF PIPE ON PROJECTS WITH MINIMUM PAVEMENT REPLACEMENT ("PATCH"). ON PROJECTS WITH NEW FULL PAVEMENT (SUCH AS MAJOR ARTERIAL STREET CONSTRUCTION PROJECTS), THE MAX TRENCH WIDTH SHALL BE LABELED, "UNRESTRICTED".
7. HIGH DENSITY POLYETHYLENE (HDPE) SHALL HAVE WATERTIGHT JOINTS.

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ALTERNATIVE PIPE SUMMARY

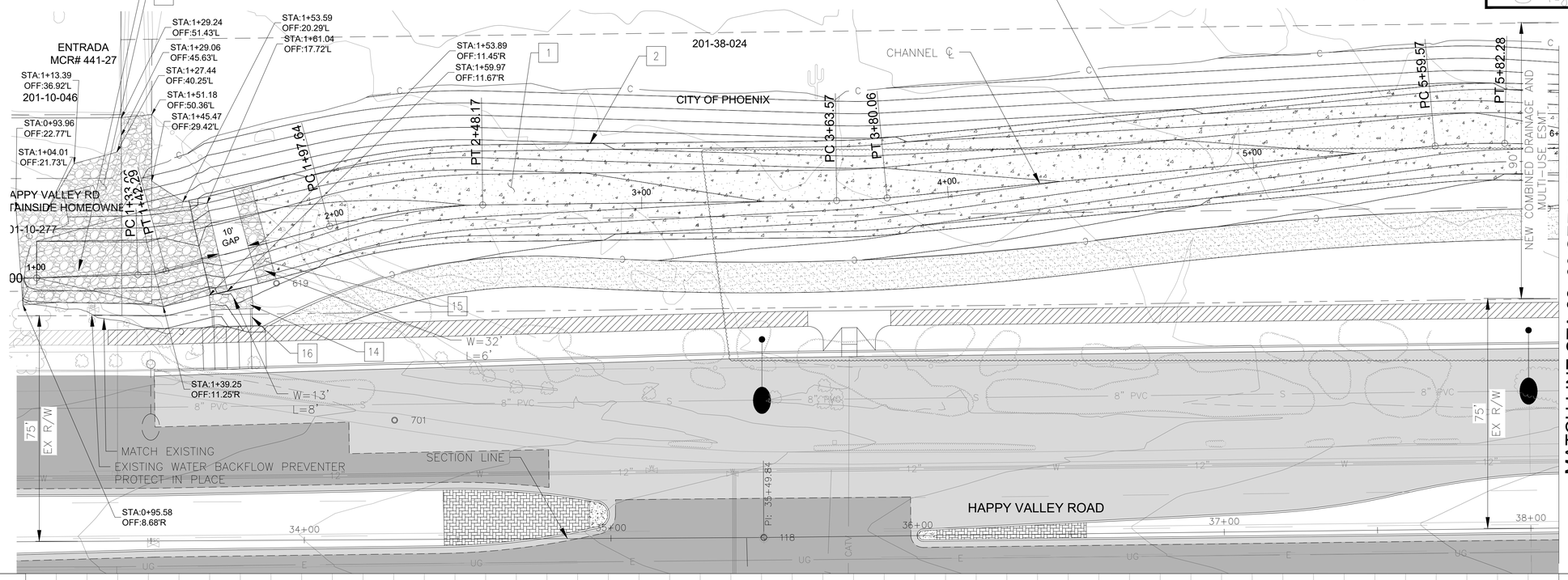
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

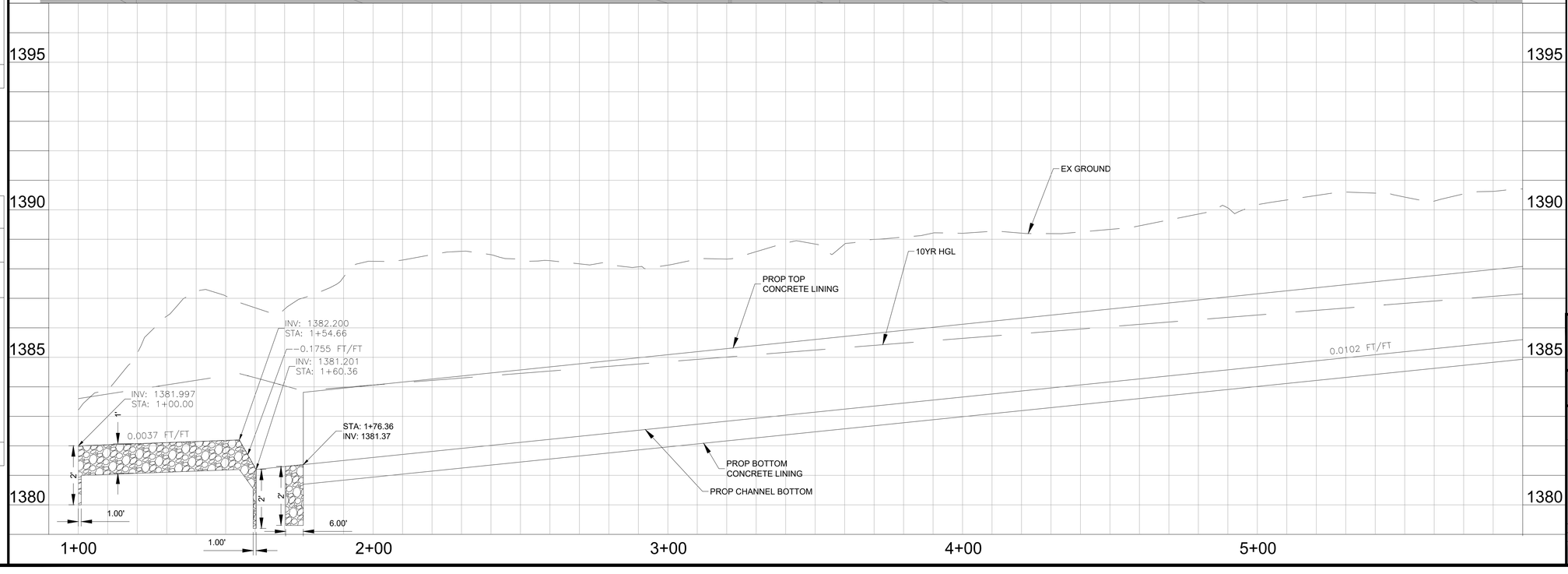
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: LNB	DES: FCS	CK: CJR	DWG. NO. DR–1.02
DATE: 5/24	DATE: 5/24	DATE: 5/24	

SHEET NAME: ST85100437APC1.DWG, PLOT DATE: 4/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	181	368	

5/24 DATE:

AZTEC TYPSA

DRAWN: LNB | DESIGN: FCS | CHECKED: CJR

REGISTERED PROFESSIONAL ENGINEER – CERTIFICATE NO. 70671 – CAMERON RAGAN – Date Signed 9/23/24 – ARIZONA, U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
1	CHANNEL EXCAVATION	CY	3382
2	CONCRETE CHANNEL LINING	SY	1603
14	RIP RAP, D50=6"	CY	3
15	RIP RAP, D50=12"	CY	120
16	CONCRETE SPILLWAY, MAG STD DETAIL 206-1	SF	72

NOTES

RIP RAP TO MATCH COLOR AND SOURCE FOR APPROVED LANDSCAPE DG. COLOR IS IDENTIFIED AS SANTA FE GOLD.

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ARIZONA811
Call 811 or click Arizona811.com

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DRAINAGE CHANNEL DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

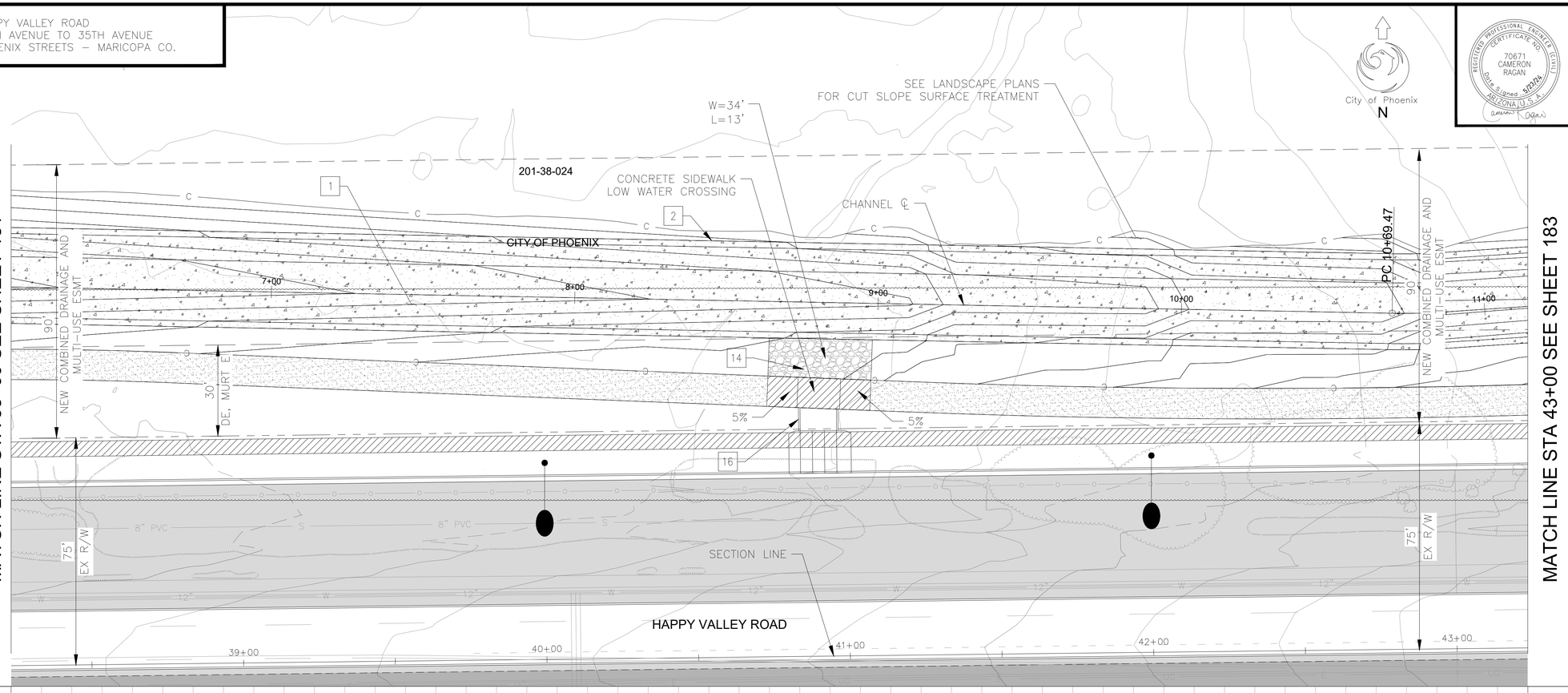
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

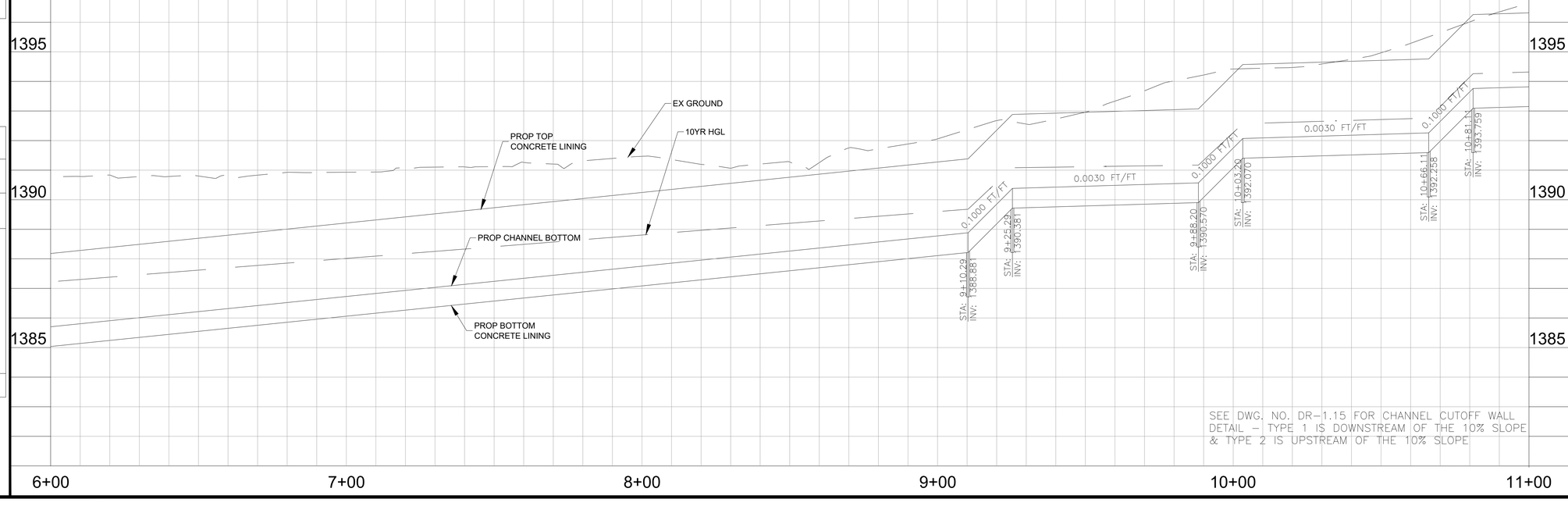
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DATE: 5/24	DATE: 5/24	DATE: 5/24	
SCALE: 1" = 20' HORIZONTAL, 2' VERTICAL			181 OF 364

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437SDD1.DWG, PLOT DATE: 4/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.





SEE DWG. NO. DR-1.15 FOR CHANNEL CUTOFF WALL DETAIL – TYPE 1 IS DOWNSTREAM OF THE 10% SLOPE & TYPE 2 IS UPSTREAM OF THE 10% SLOPE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	182	368	

5/24 DATE:

AZTEC TYPSA

DRAWN: LNB | DESIGN: FCS | CHECKED: CJR

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
1	CHANNEL EXCAVATION	CY	1482
2	CONCRETE CHANNEL LINING	SY	1756
14	RIP RAP, D50=6"	CY	17
16	CONCRETE SPILLWAY, MAG STD DETAIL 206-1	SF	96

RIP RAP TO MATCH COLOR AND SOURCE FOR APPROVED LANDSCAPE DG. COLOR IS IDENTIFIED AS SANTA FE GOLD.

REGISTERED PROFESSIONAL ENGINEER – CERTIFICATE NO. 70671 – CAMERON RAGAN – Date Signed 5/23/24 – ARIZONA, U.S.A.

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DRAINAGE CHANNEL DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: LNB	DES: FCS	CK: CJR	DWG. NO. DR-1.04
DATE: 5/24	DATE: 5/24	DATE: 5/24	
SCALE: 1" = 20' HORIZONTAL, 2' VERTICAL			182 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

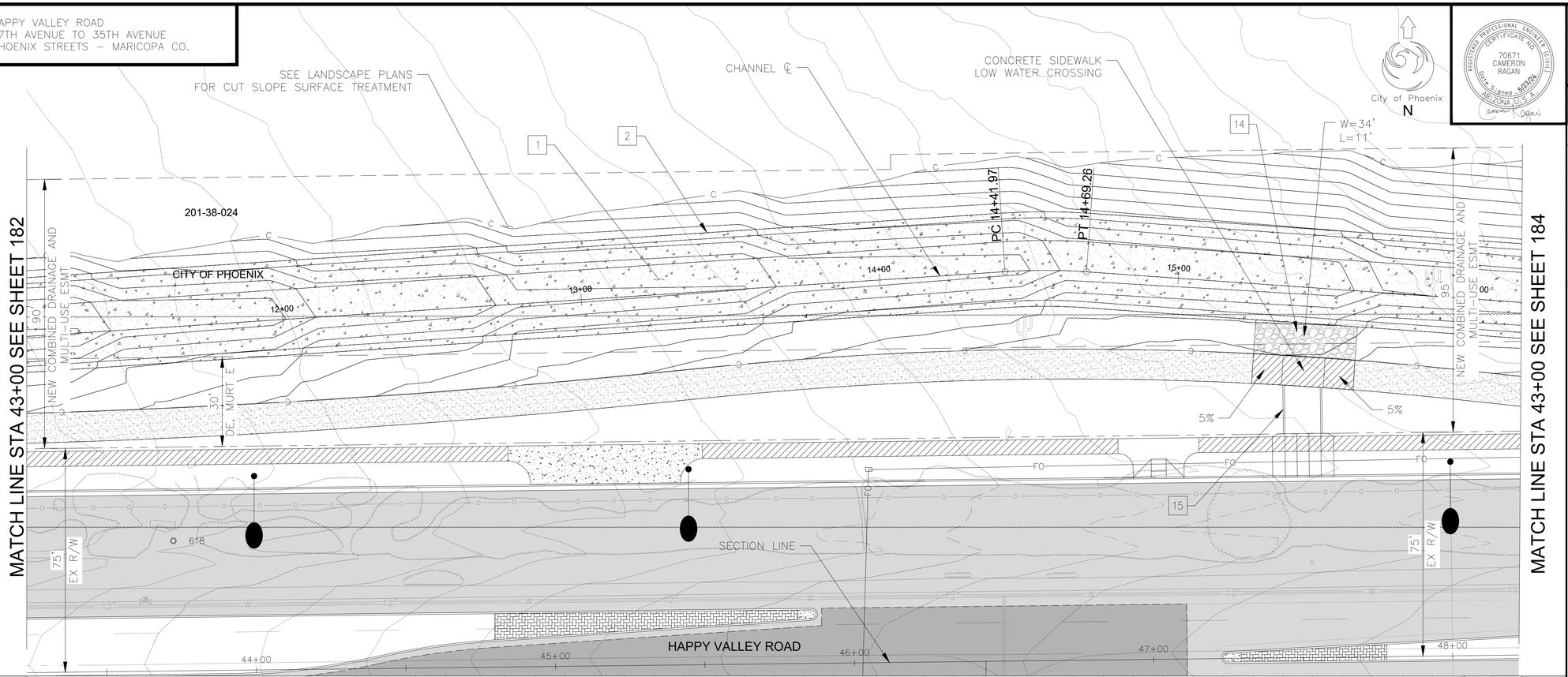
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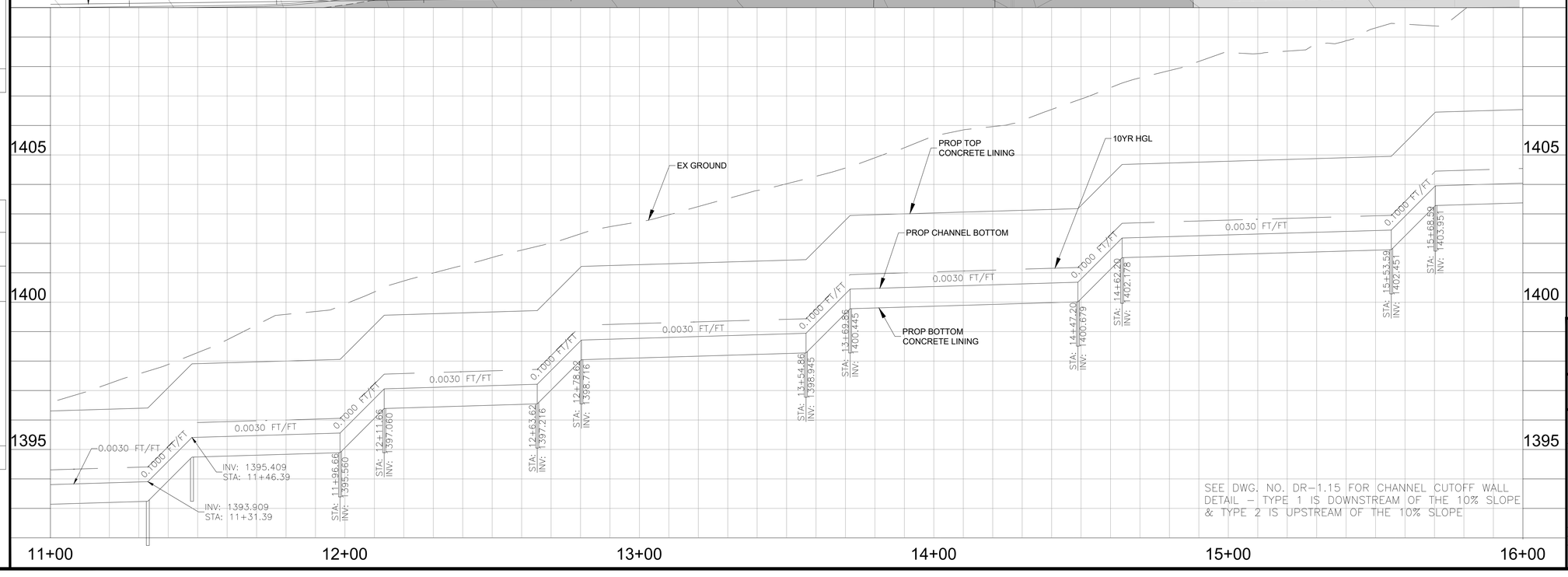
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437SDD2.DWG, PLOT DATE: 4/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.





SEE DWG. NO. DR-1.15 FOR CHANNEL CUTOFF WALL DETAIL – TYPE 1 IS DOWNSTREAM OF THE 10% SLOPE & TYPE 2 IS UPSTREAM OF THE 10% SLOPE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REGISTERED PROFESSIONAL ENGINEER – CERTIFICATE NO. 70671 – CAMERON RAGAN – Date Signed 5/23/24 – ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	183	368	

5/24 DATE: AZTEC TYPSA

DRAWN: LNB | DESIGN: FCS | CHECKED: CJR

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
1	CHANNEL EXCAVATION	CY	3032
2	CONCRETE CHANNEL LINING	SY	1756
14	RIP RAP, D50=6"	CY	14
16	CONCRETE SPILLWAY, MAG STD DETAIL 206-1	SF	206

RIP RAP TO MATCH COLOR AND SOURCE FOR APPROVED LANDSCAPE DG. COLOR IS IDENTIFIED AS SANTA FE GOLD.

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DRAINAGE CHANNEL DETAIL

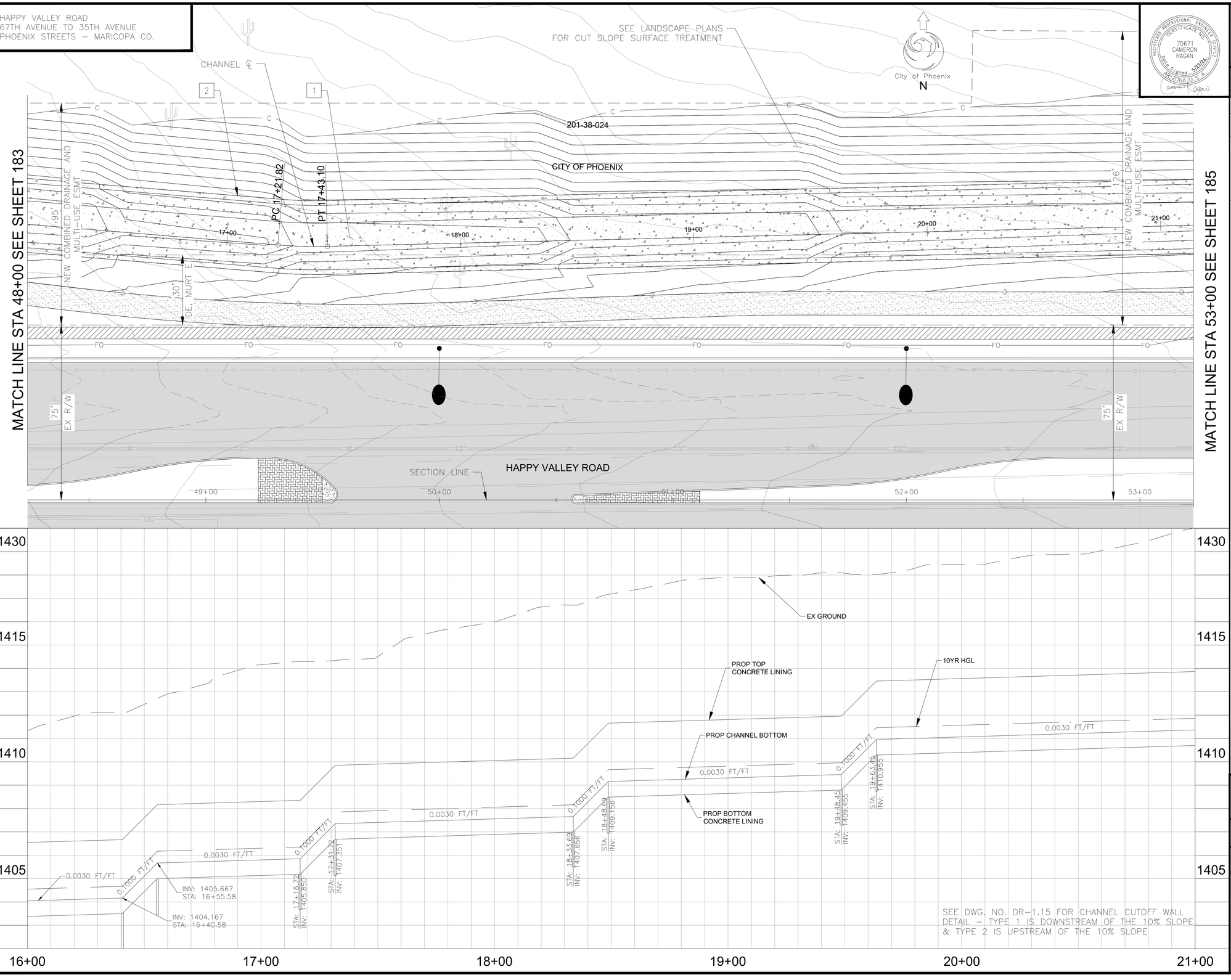
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR:	DES:	CK:	DWG. NO. DR-1.05
LNB	FCS	CJR	
DATE: 5/24	DATE: 5/24	DATE: 5/24	
SCALE: 1" = 20' HORIZONTAL, 2' VERTICAL			183 OF 364

SHEET NAME: ST85100437SDD3.DWG, PLOT DATE: 4/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



SEE DWG. NO. DR-1.15 FOR CHANNEL CUTOFF WALL DETAIL – TYPE 1 IS DOWNSTREAM OF THE 10% SLOPE & TYPE 2 IS UPSTREAM OF THE 10% SLOPE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	184	368	

5/24 DATE: AZTEC TYPSA

DRAWN: LNB | DESIGN: FCS | CHECKED: CJR

REGISTERED PROFESSIONAL ENGINEER – CERTIFICATE NO. 70671 – CAMERON RAGAN – Date Signed 5/23/24 – ARIZONA, U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
1	CHANNEL EXCAVATION	CY	7015
2	CONCRETE CHANNEL LINING	SY	1756

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DRAINAGE CHANNEL DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

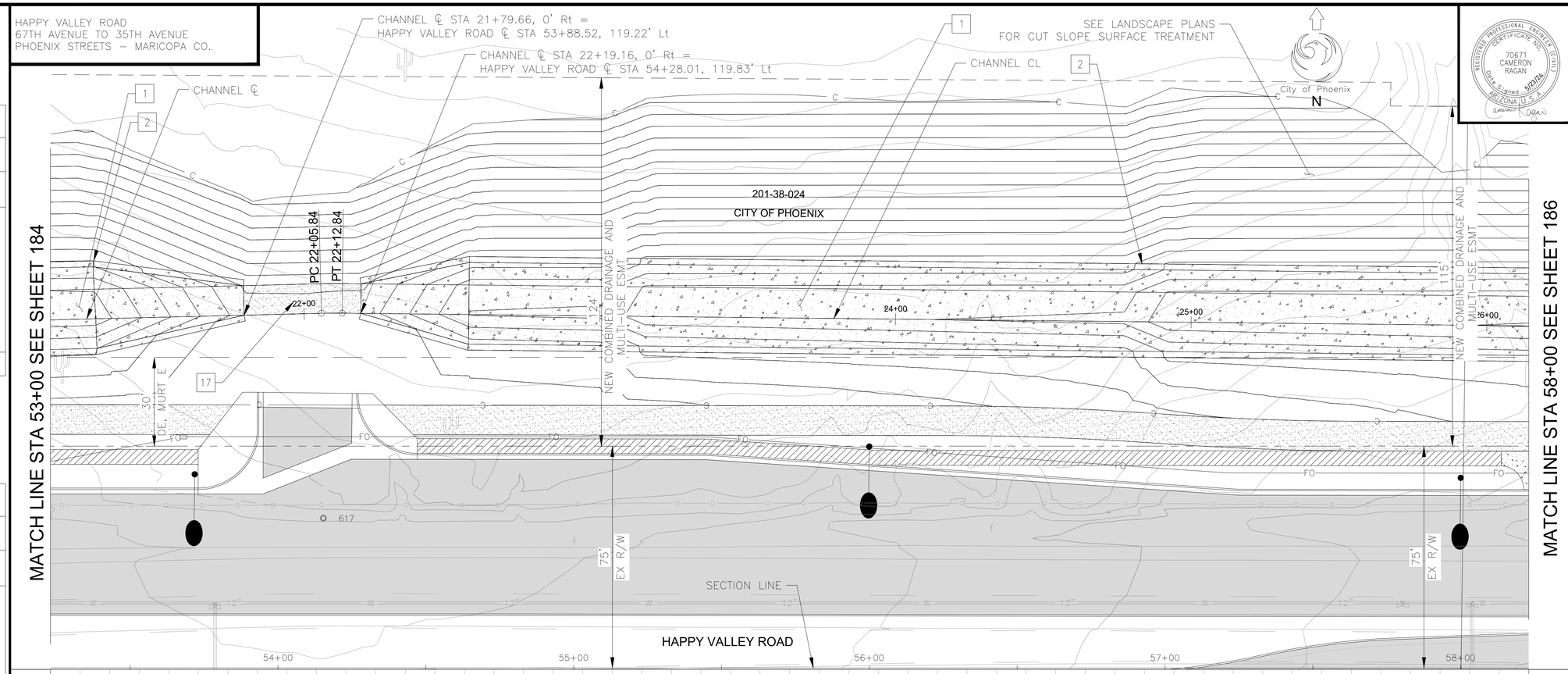
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DATE: 5/24	DATE: 5/24	DATE: 5/24	
SCALE: 1" = 20' HORIZONTAL, 2' VERTICAL			184 OF 364

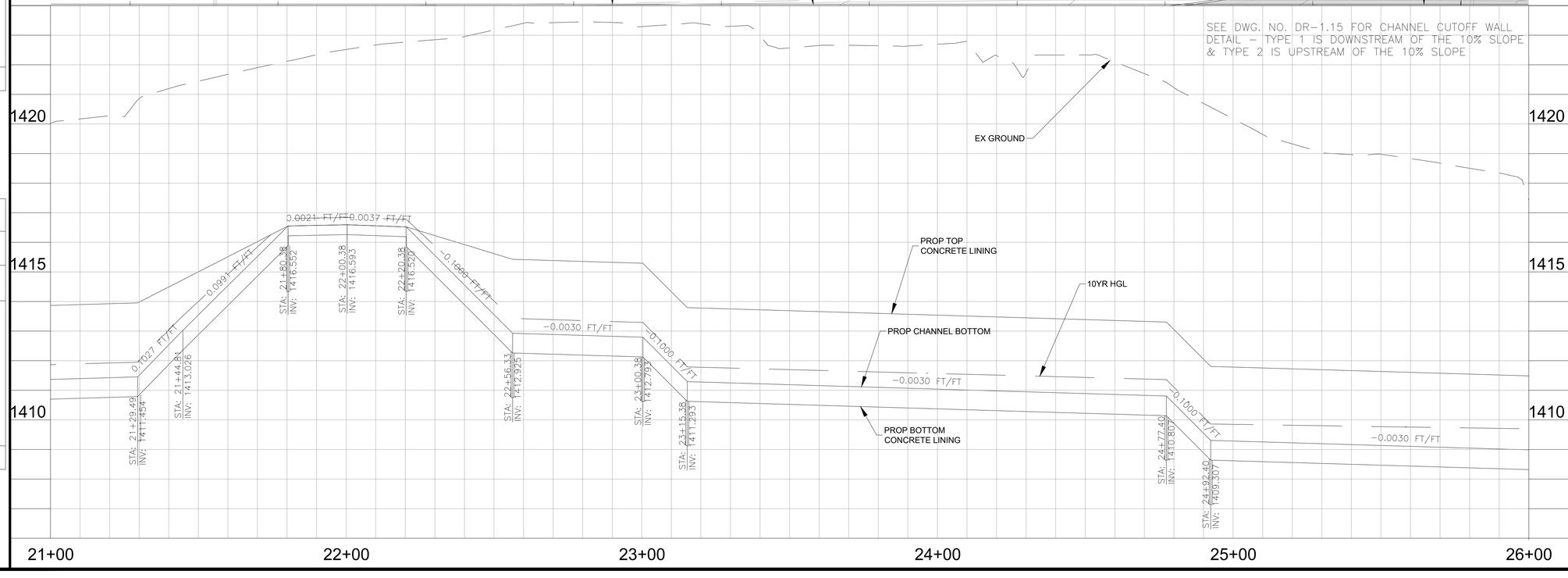
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437SDD4.DWG, PLOT DATE: 4/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.





F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	185	368	

5/24
DATE:

AZTEC TYPSA

DRAWN: LNB | DESIGN: FCS | CHECKED: CJR

REGISTERED PROFESSIONAL ENGINEER – CERTIFICATE NO. 70671 – CAMERON RAGAN – Date Signed 5/23/24 – ARIZONA, U.S.A.

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
1	CHANNEL EXCAVATION	CY	10780
2	CONCRETE CHANNEL LINING	SY	1532
17	AGGREGATE BASE COURSE, T=4"	TON	10

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DRAINAGE CHANNEL DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

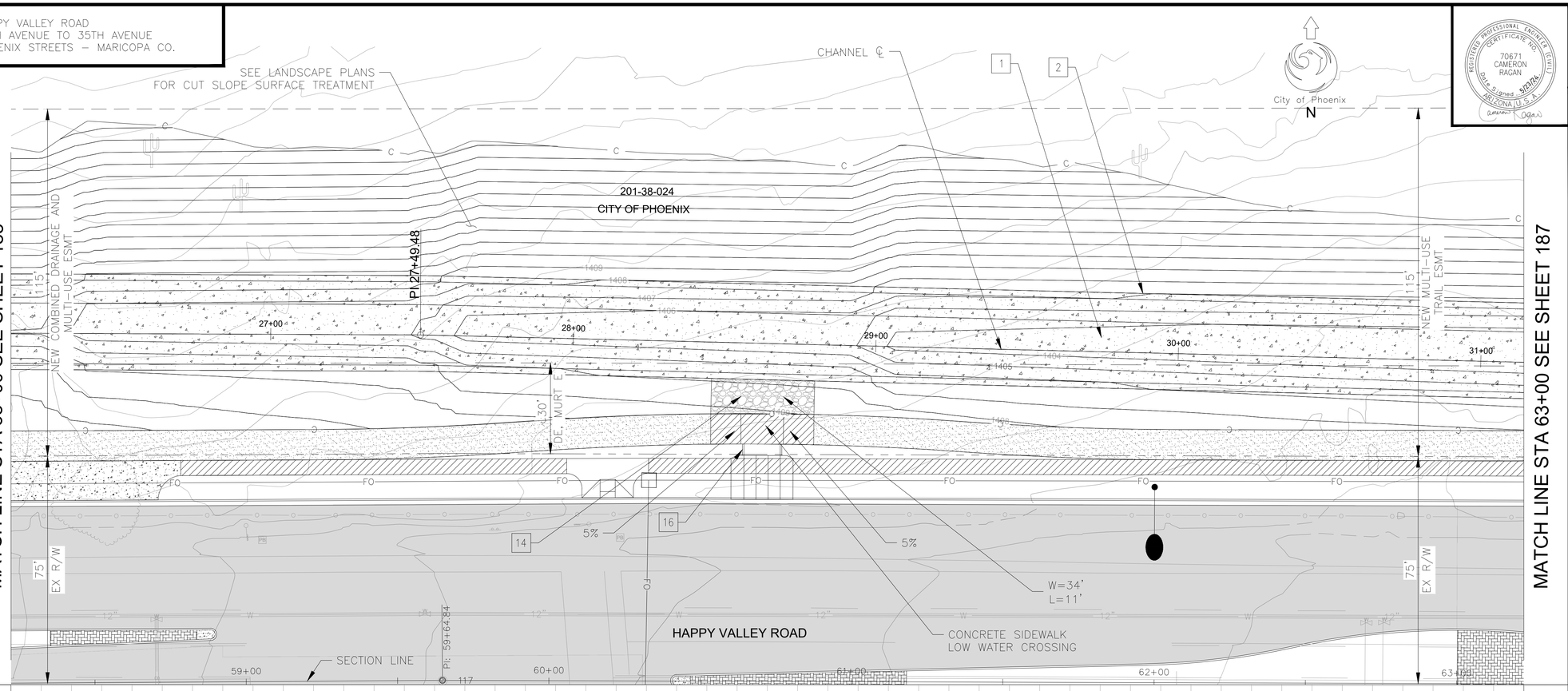
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

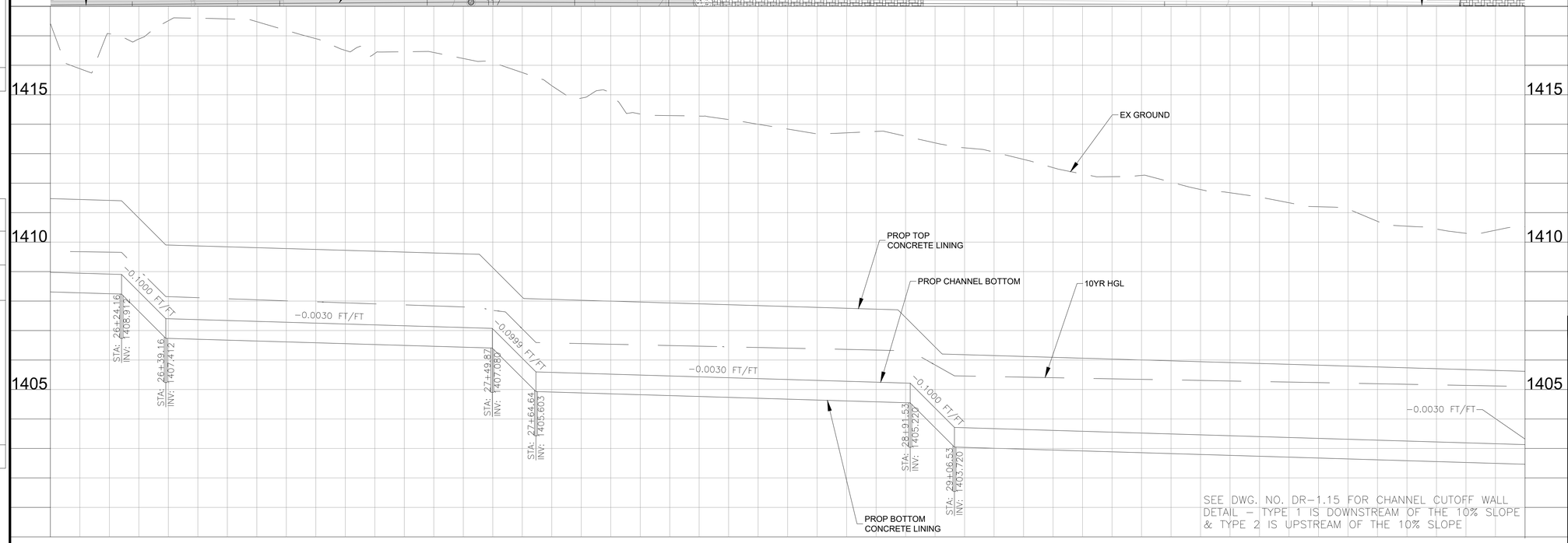
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DATE: 5/24	DATE: 5/24	DATE: 5/24	
SCALE: 1" = 20' HORIZONTAL, 2' VERTICAL			185 OF 364

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CKD BY | DATE

SHEET NAME: ST85100437SD05.DWG, PLOT DATE: 4/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.





SEE DWG. NO. DR-1.15 FOR CHANNEL CUTOFF WALL DETAIL – TYPE 1 IS DOWNSTREAM OF THE 10% SLOPE & TYPE 2 IS UPSTREAM OF THE 10% SLOPE

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REGISTERED PROFESSIONAL ENGINEER – CERTIFICATE NO. 70671 – CAMERON RAGAN – Date Signed 5/23/24 – ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	186	368	

5/24 DATE: AZTEC TYPSA

DRAWN: LNB | DESIGN: FCS | CHECKED: CJR

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
1	CHANNEL EXCAVATION	CY	8390
2	CONCRETE CHANNEL LINING	SY	1756
14	RIP RAP, D50=6", T=1'	CY	14
16	CONCRETE SPILLWAY MAG STD 206-1	SF	49

RIP RAP TO MATCH COLOR AND SOURCE FOR APPROVED LANDSCAPE DG. COLOR IS IDENTIFIED AS SANTA FE GOLD.

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DRAINAGE CHANNEL DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: LNB	DES: FCS	CK: CJR	DWG. NO.
DATE: 5/24	DATE: 5/24	DATE: 5/24	
SCALE: 1" = 20' HORIZONTAL, 2' VERTICAL			186 OF 364

SHEET NAME: ST85100437SDD6.DWG, PLOT DATE: 4/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

MATCH LINE STA 63+00 SEE SHEET 186

CHANNEL ℄ STA 32+99.10, 0' Rt =
HAPPY VALLEY ROAD ℄ STA 65+06.70, 102.19' Lt

SEE LANDSCAPE PLANS
FOR CUT SLOPE SURFACE TREATMENT

SEE DWG. NO. DR-1.17 & DR-1.18 FOR
RETENTION BASIN DETAILS,
QUANTITIES, & CONTROL POINTS

STETSON VALLEY
MCR# 700-22

201-38-024
CITY OF PHOENIX

CHANNEL ℄

STA:65+07.08
OFF:119.84'L

STA:65+46.33
OFF:121.89'L

STA:65+46.30
OFF:85.05'L

STA:65+06.44
OFF:90.19'L

STA:65+11.56
OFF:87.10'L

EP 32+99.10

32+00

32+99

30' DE WURT ELE

117' NEW COMBINED DRAINAGE AND MULTI-USE ESMT

5%

5%

CONCRETE SIDEWALK
LOW WATER CROSSING

SEE DWG. NO. DR-1.12 FOR
STORM DRAIN DETAILS AND QUANTITIES

75' EX R/W

City of Phoenix
N

HAPPY VALLEY ROAD

SECTION LINE

64+00 65+00 66+00 67+00 68+00

EX GROUND

PROP BOTTOM
CONCRETE LINING

PROP CHANNEL BOTTOM

PROP TOP
CONCRETE LINING

10YR HGL

INV: 1402.542
STA: 32+99.10

-0.0030 FT/FT

2'

1410 1405 1400

32+00 33+00

SEE DWG. NO. DR-1.15 FOR CHANNEL CUTOFF WALL
DETAIL – TYPE 1 FOR END OF CONCRETE LINING

REGISTERED PROFESSIONAL ENGINEER CERTIFICATE NO. 70671 CAMERON RAGAN Date Signed 9/23/24 ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	187	368	

5/24 DATE:

AZTEC TYPSA

DRAWN: LNB | DESIGN: FCS | CHECKED: CJR

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
1	CHANNEL EXCAVATION	CY	2051
2	CONCRETE CHANNEL LINING	SY	649
15	RIPRAP, D50=12", T=2'	CY	102
16	CONCRETE SPILLWAY MAG STD 206-1	SF	25

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DRAINAGE CHANNEL DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

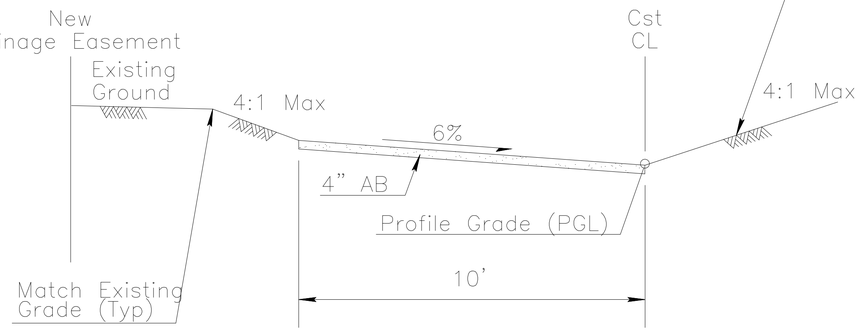
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: LNB	DES: FCS	CK: CJR	DWG. NO. DR-1.09
DATE: 5/24	DATE: 5/24	DATE: 5/24	
SCALE: 1" = 20' HORIZONTAL, 2' VERTICAL			187 OF 364

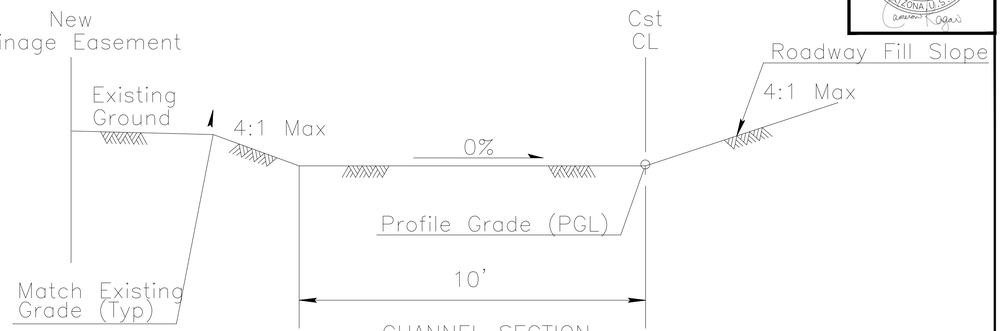
REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437SDD7.DWG, PLOT DATE: 4/23/2024

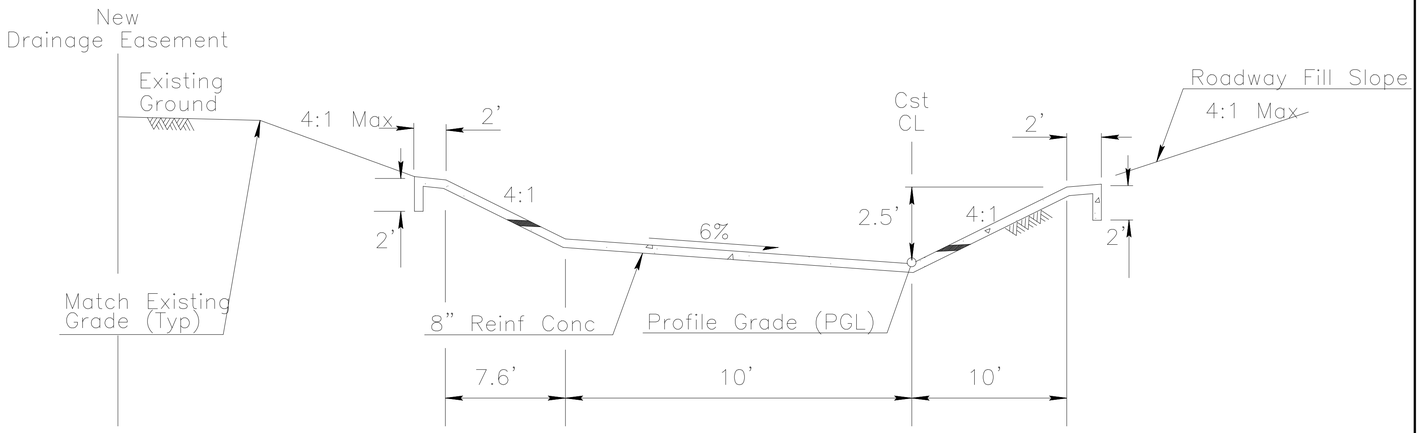
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



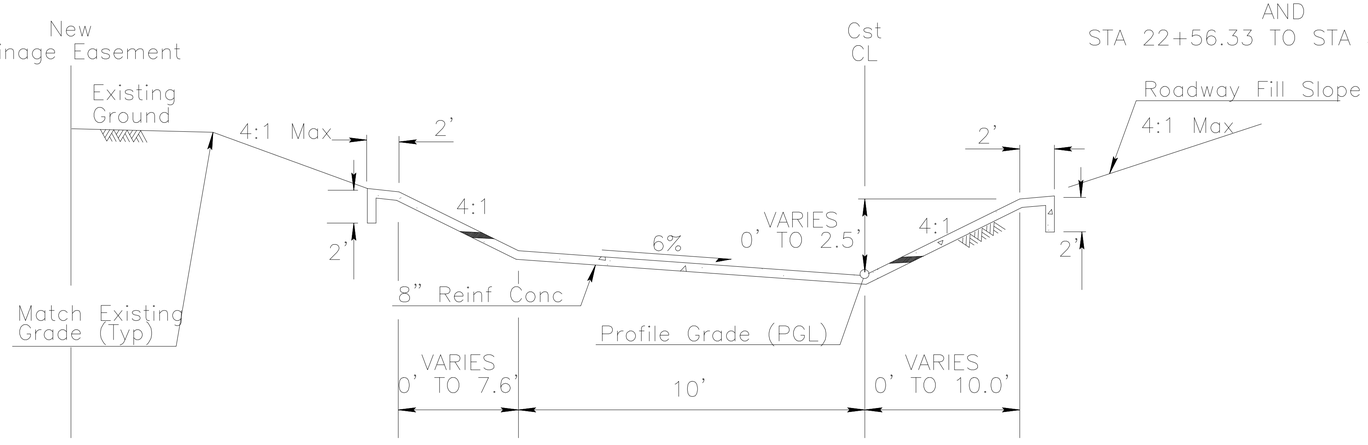
CHANNEL SECTION
STA 21+80.38 TO STA 22+20.38



CHANNEL SECTION
STA 1+60.36 TO STA 1+70.36



CHANNEL SECTION
STA 01+76.36 TO STA 21+29.49
AND
STA 22+56.33 TO STA 32+99.10



CHANNEL SECTION
STA 21+29.49 TO STA 21+80.38
AND
STA 22+20.38 TO STA 22+56.33

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REGISTERED PROFESSIONAL ENGINEER – CERTIFICATE NO. 70671 – CAMERON RAGAN – Date Signed 5/23/24 – ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	188	368	

5/24
DATE:

AZTEC TYPSA

DRAWN: LNB | DESIGN: FCS | CHECKED: CJR

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CHANNEL TYPICAL SECTION

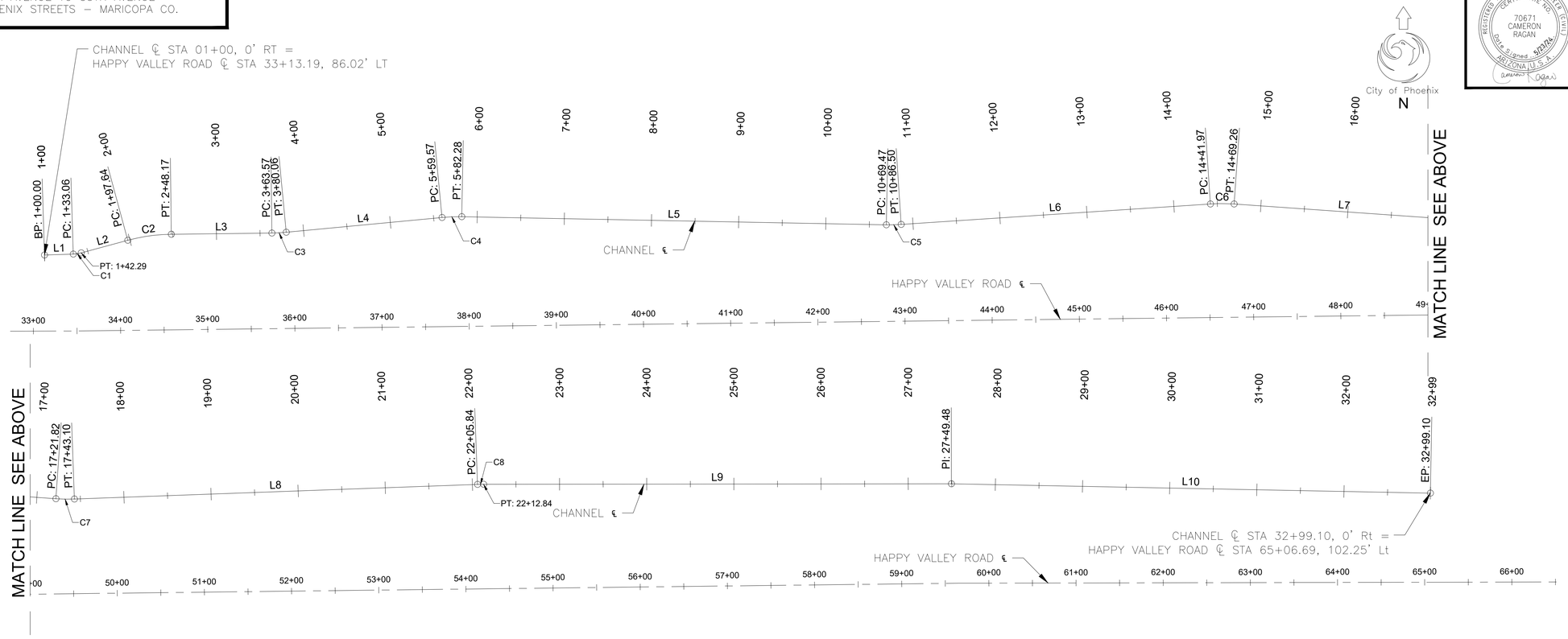
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: LNB	DES: FCS	CK: CJR	DWG. NO. DR-1.10
DATE: 5/24	DATE: 5/24	DATE: 5/24	188 OF 364

SHEET NAME: ST85100437SDD8.DWG, PLOT DATE: 4/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



CONTROL NOTE:

THE HORIZONTAL DATUM IS NAD83(HARN) STATE PLANE, ARIZONA CENTRAL ZONE, ADJUSTED FROM GRID TO GROUND USING A COMBINED SCALE FACTOR OF 1.00016, WITH A SCALE ORIGIN POINT X=0.00, Y=0.00.

THE BASIS OF BEARINGS IS GRID NORTH NAD 83 STATE PLANE, ARIZONA CENTRAL ZONE.

ELEVATIONS ARE BASED ON THE CITY OF PHOENIX DATUM.

PRIMARY BENCHMARKS FOR THE PROJECT ARE AS FOLLOWS:

▲ C.O.P. BM 1516: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 35TH AVENUE ELEV: 1422.62' (C.O.P. DATUM)

▲ C.O.P. BM 1507: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 47TH AVENUE ELEV: 1411.07' (C.O.P. DATUM)

▲ C.O.P. BM 1481: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 51ST AVENUE ELEV: 1420.08' (C.O.P. DATUM)

▲ C.O.P. BM 1478: BCHH AT THE INTERSECTION OF HAPPY VALLEY ROAD AND 55TH AVENUE ELEV: 1419.94' (C.O.P. DATUM)

HAPPY VALLEY ROAD CHANNEL

NUMBER	BEGIN POINT (STA)	BEGIN POINT (N, E)	END POINT (STA)	END POINT (N, E)	LENGTH	DIRECTION	RADIUS	Δ	D
L1	1+00.00	(987043.67, 615297.46)	1+33.06	(987044.70, 615330.50)	33.06'	N88° 13' 12.03"E			
C1	1+33.06	(987044.70, 615330.50)	1+42.29	(987046.06, 615339.62)	9.23'		39.52'	13°23'19"	144°58'48"
L2	1+42.29	(987046.06, 615339.62)	1+97.64	(987060.54, 615393.04)	55.35'	N74° 49' 53.19"E			
C2	1+97.64	(987060.54, 615393.04)	2+48.17	(987067.49, 615442.95)	50.53'		200.00'	14°28'29"	28°38'53"
L3	2+48.17	(987067.49, 615442.95)	3+63.57	(987068.89, 615558.34)	115.40'	N89° 18' 22.30"E			
C3	3+63.57	(987068.89, 615558.34)	3+80.06	(987069.77, 615574.81)	16.49'		200.00'	4°43'29"	28°38'53"
L4	3+80.06	(987069.77, 615574.81)	5+59.57	(987086.72, 615753.51)	179.51'	N84° 34' 53.18"E			
C4	5+59.57	(987086.72, 615753.51)	5+82.28	(987087.58, 615776.19)	22.71'		200.00'	6°30'22"	28°38'53"
L5	5+82.28	(987087.58, 615776.19)	10+69.47	(987078.33, 616263.29)	487.19'	S88° 54' 44.85"E			
C5	10+69.47	(987078.33, 616263.29)	10+86.50	(987078.73, 616280.31)	17.03'		200.00'	4°52'41"	28°38'53"
L6	10+86.50	(987078.73, 616280.31)	14+41.97	(987102.23, 616635.01)	355.47'	N86° 12' 33.90"E			
C6	14+41.97	(987102.23, 616635.01)	14+69.26	(987102.18, 616662.27)	27.29'		200.00'	7°49'00"	28°38'53"
L7	14+69.26	(987102.18, 616662.27)	17+21.82	(987084.45, 616914.21)	252.56'	S85° 58' 26.30"E			
C7	17+21.82	(987084.45, 616914.21)	17+43.10	(987084.08, 616935.48)	21.28'		200.00'	6°05'50"	28°38'53"
L8	17+43.10	(987084.08, 616935.48)	22+05.84	(987100.80, 617397.92)	462.73'	N87° 55' 44.19"E			
C8	22+05.84	(987100.80, 617397.92)	22+12.84	(987100.94, 617404.92)	7.00'		200.00'	2°00'21"	28°38'53"
L9	22+12.84	(987100.94, 617404.92)	27+49.48	(987101.55, 617941.55)	536.64'	N89° 56' 05.02"E			
L10	27+49.48	(987101.55, 617941.55)	32+99.10	(987090.83, 618491.07)	549.62'	S88° 52' 56.41"E			

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 70671 CAMERON RAGAN Date Signed 5/23/24 ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	189	368	

5/24 DATE:

AZTEC TYPSA

DRAWN: LNB | DESIGN: FCS | CHECKED: CJR

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ARIZONA811
Call 811 or click Arizona811.com

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CHANNEL GEOMETRY

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

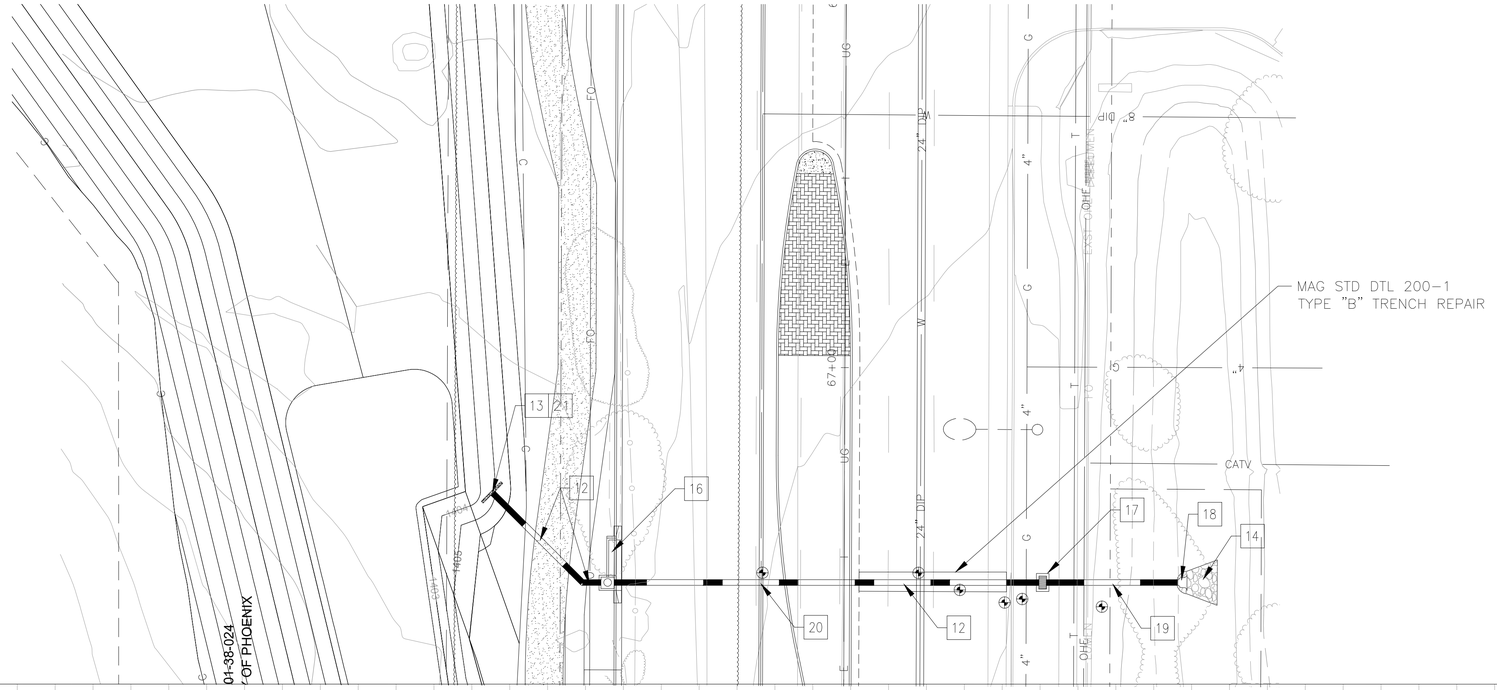
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

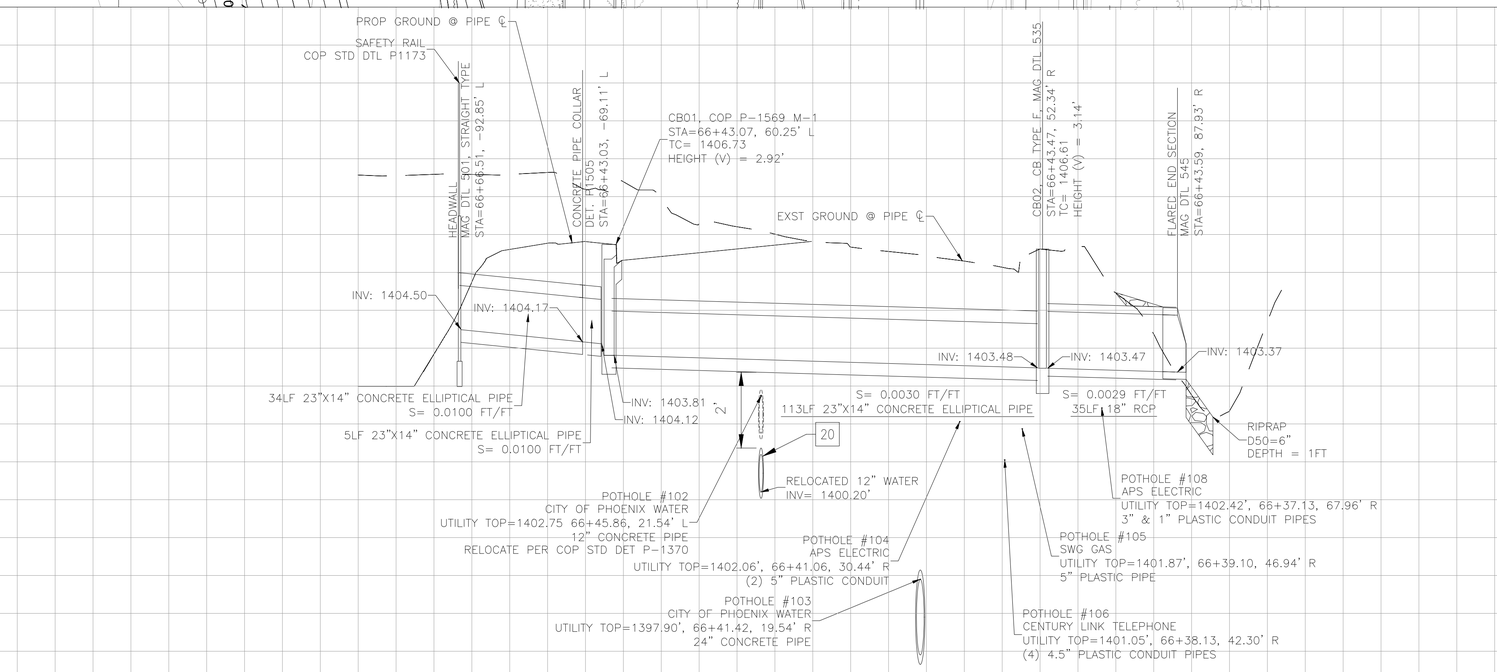
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DATE: 5/24	DATE: 5/24	DATE: 5/24	189 OF 364

SHEET NAME: ST85100437SDD09.DWG, PLOT DATE: 4/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix N





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NO.	DESCRIPTION	REV BY	CKD BY	DATE

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO.
70671
CAMERON RAGAN
Date Signed 6.18.24
ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	190	368	

5/24
DATE:

AZTEC TYPSA

DRAWN: LNB | DESIGN: FCS | CHECKED: CJR

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
14	RIP RAP, D50=6"	CY	3
12	INSTALL 23"X14" ELLIPTICAL CROSS PIPE	LF	147
13	HEADWALL PER MAG STD DTL 501 TYPE STRAIGHT W/ SAFETY RAIL PER COP STD DTL P1173	EA	1
16	CONCRETE CATCH BASIN, COP STD DTL P-1569 TYPE M-1, L=10FT	EA	1
17	CONCRETE CATCH BASIN PER MAG STD DTL 535 TYPE F	EA	1
18	CONCRETE END SECTION PER MAG STD DTL 545	EA	1
19	INSTALL 18" RCP PIPE, CLASS IV	LF	35
20	WATERLINE VERTICAL REALIGNMENT PER COP STD DTL P-1370	EA	1
21	TRASH RACK MAG STD DTL 502	EA	1

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CATCH BASIN DETAIL

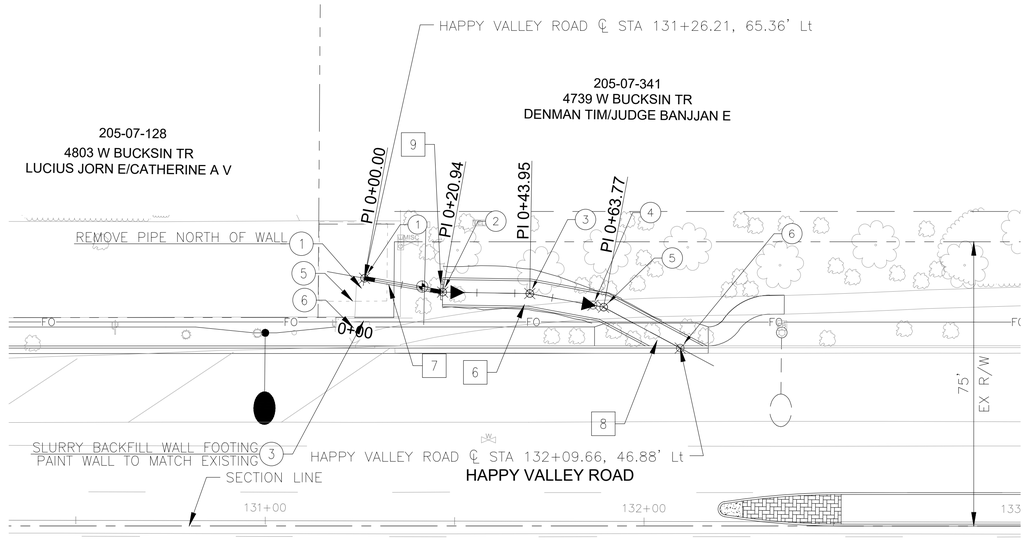
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

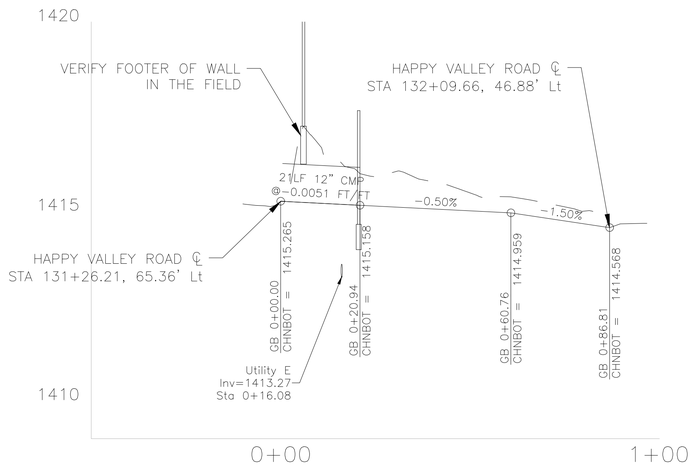
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: LNB	DES: FCS	CK: CJR	DWG. NO. DR-1.12
DATE: 5/24	DATE: 5/24	DATE: 5/24	
SCALE: 1" = 20' HORIZONTAL, 2' VERTICAL			190 OF 361

SHEET NAME: ST85100437SDD10.DWG, PLOT DATE: 6/18/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.





City of Phoenix
N



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	191	368	

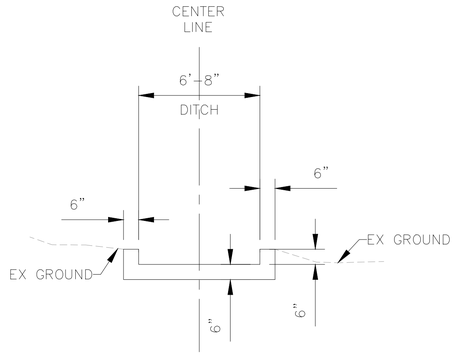
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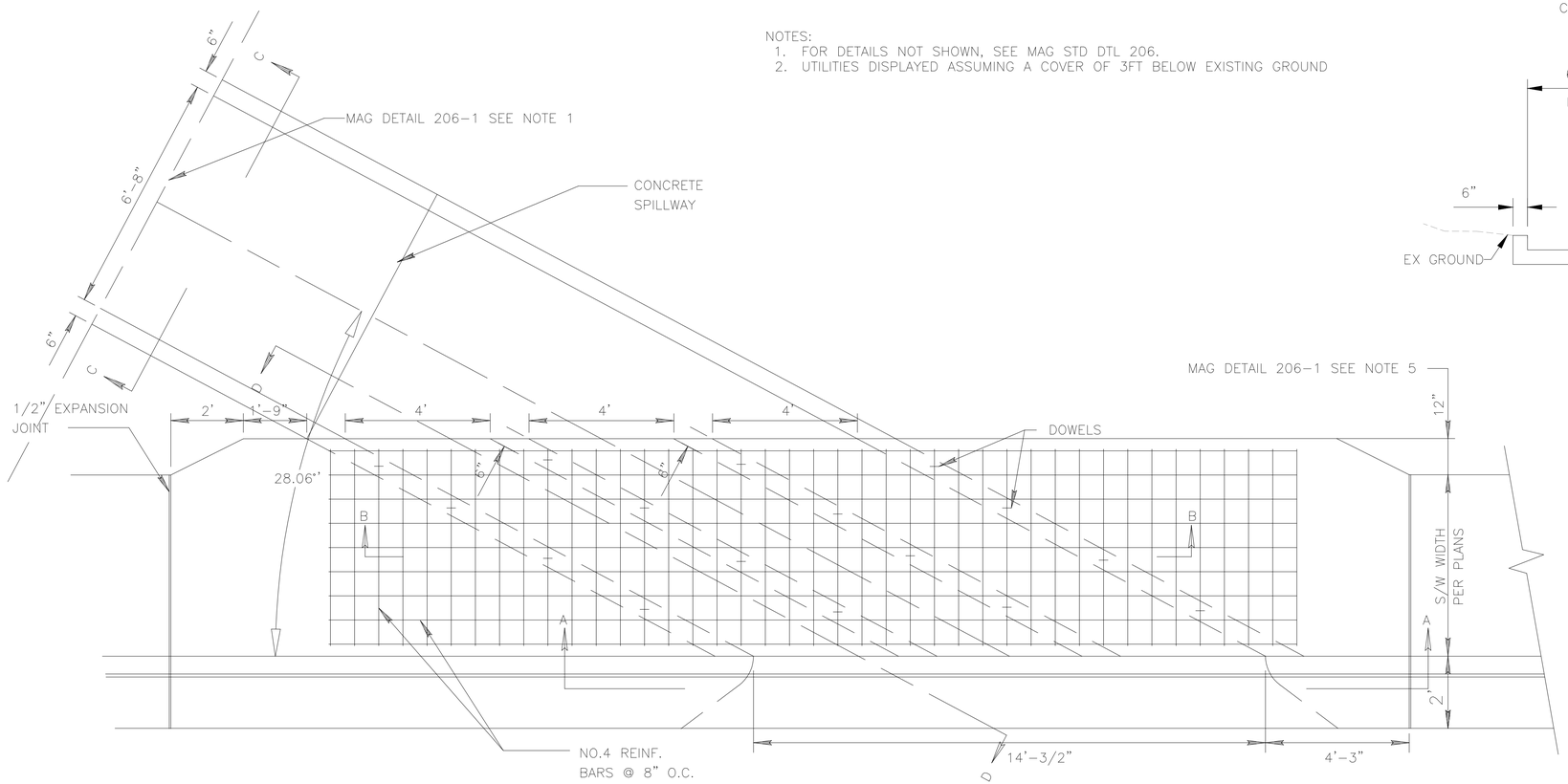
DRAWN: LNB | DESIGN: FCS | CHECKED: CJR

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
6	CONCRETE SPILLWAY MAG STD 206-1	SF	416
7	12" CMP	LF	20
8	MODIFIED CONCRETE SCUPPER MAG STD DET 206	EA	1
9	HEADWALL PER MAG STD DET 501 STRAIGHT TYPE	EA	1

NOTES:
1. FOR DETAILS NOT SHOWN, SEE MAG STD DTL 206.
2. UTILITIES DISPLAYED ASSUMING A COVER OF 3FT BELOW EXISTING GROUND





SCUPPER PLAN VIEW
FOR SECTION DETAILS SEE DWG NO. DR-1.14

REMOVAL NOTES

NO	DESCRIPTION	UNIT	QTY
1	REMOVE PIPE	LF	10
3	REMOVE PIPE, SLURRY BACKFILL AND COMPACT	LF	22
5	REPLACE GROUTED RIP RAP PER MAG SECTION 220	SF	54
6	SAWCUT AND REMOVE GROUTED RIP RAP	SF	26

Point Table

#	STA	NORTHING	EASTING
1	0+00.00	987103.58	625109.87
2	0+20.94	987100.13	625130.53
3	0+43.95	987100.00	625153.53
4	0+60.94	987097.09	625170.28
5	0+63.77	987096.60	625173.07
6	0+86.68	987086.05	625193.39

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BASIN OUTLET DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: LNB	DES: FCS	CK: CJR	DWG. NO. DR-1.13
DATE: 5/2024	DATE: 5/24	DATE: 5/2024	
SCALE: 1" = 20' HORIZONTAL, 2' VERTICAL			191 OF 364

REVISION BY CITY OF PHOENIX

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REVISION BY CITY OF PHOENIX

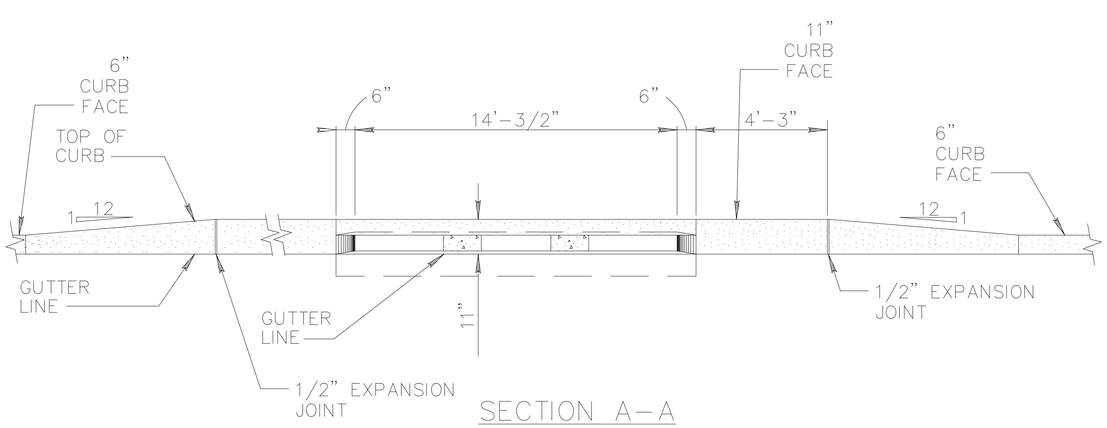
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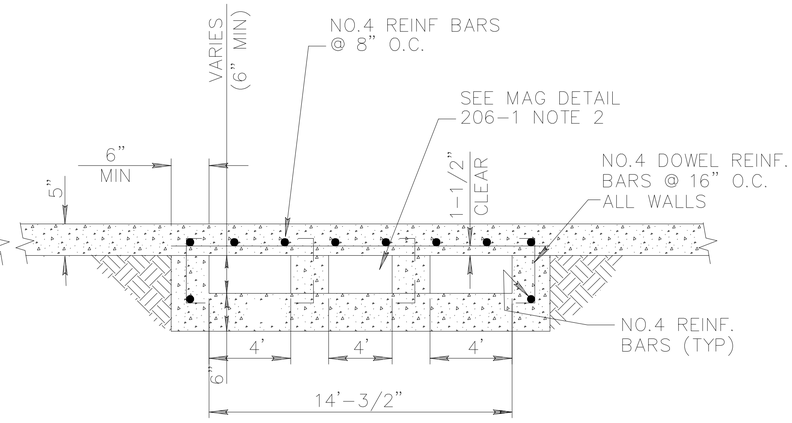
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SHEET NAME: ST85100437SDD11.DWG, PLOT DATE: 4/23/2024

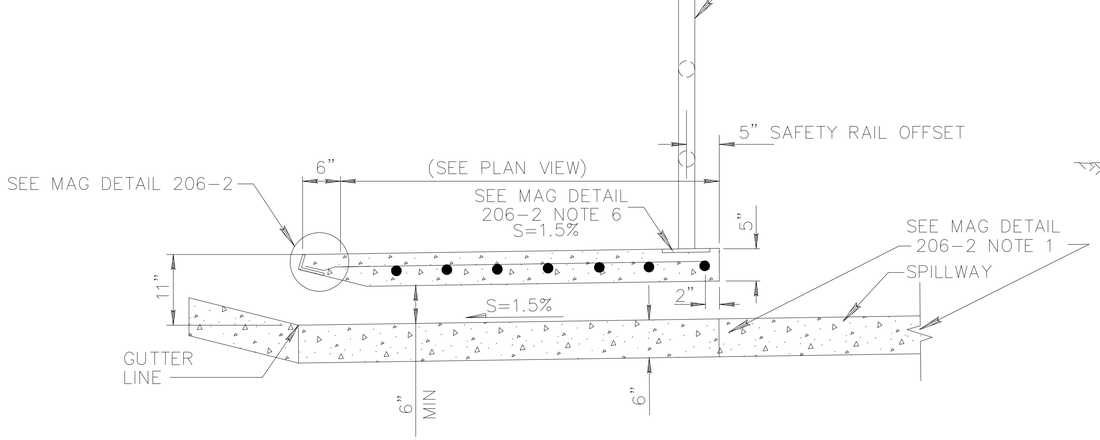
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



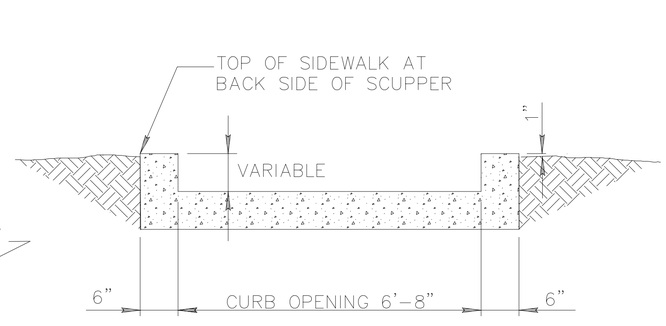
SECTION A–A



SECTION B–B



SECTION D–D



SECTION C–C SPILLWAY

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 70671 CAMERON RAGAN Date Signed 5/23/24 ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	192	368	

5/24 DATE:

AZTEC TYPSA

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BASIN OUTLET DETAIL

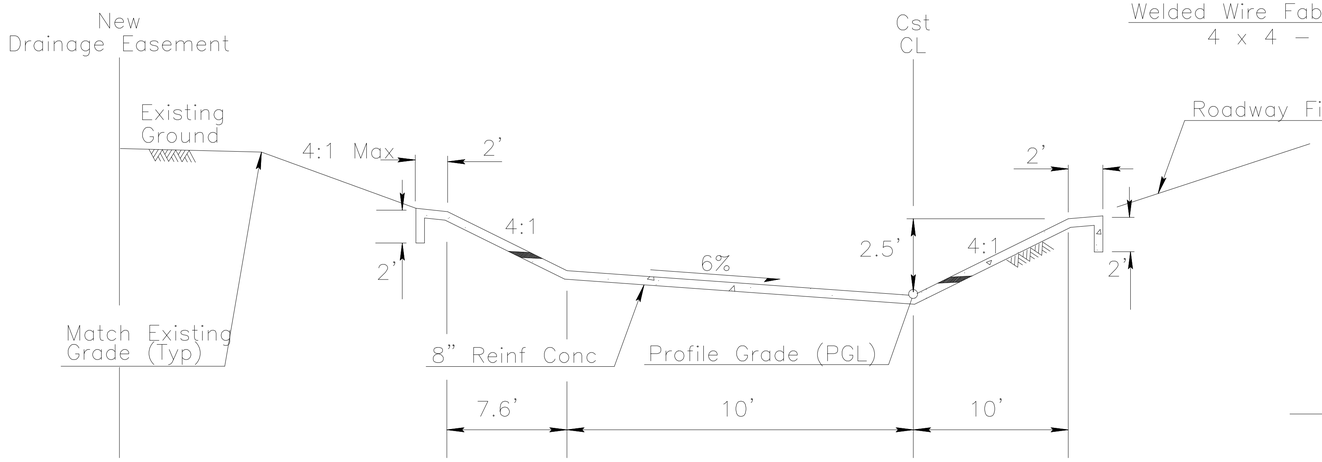
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

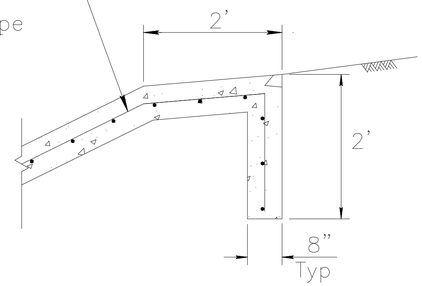
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DATE: 5/24	DATE: 5/24	DATE: 5/24	

SHEET NAME: ST85100437SDD12.DWG, PLOT DATE: 4/23/2024

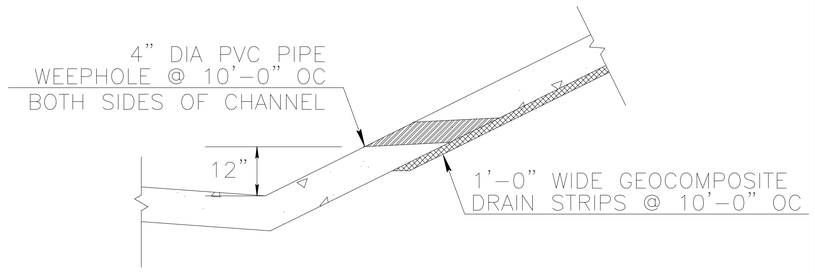
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



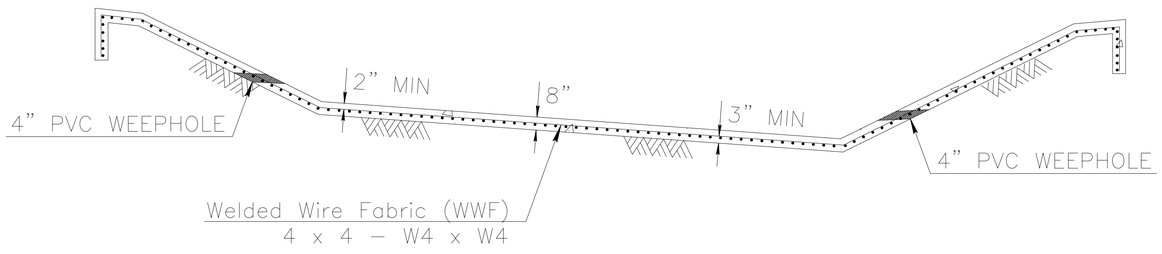
CHANNEL TYPICAL SECTION



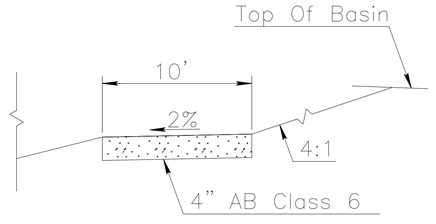
TOP OF CHANNEL CUT OFF WALLS
N.T.S.



TYPICAL WEEPHOLE DETAIL
N.T.S.

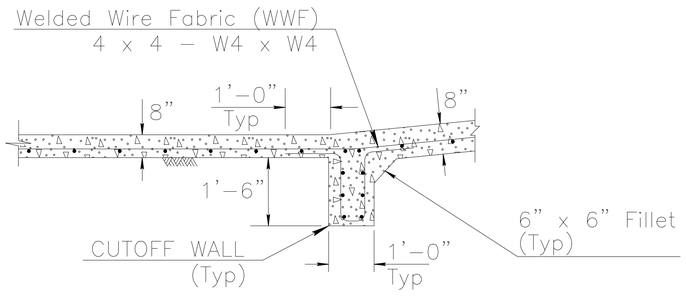


CHANNEL REINFORCEMENT

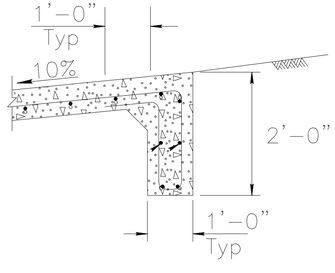


RETENTION BASIN ACCESS RAMP DETAIL
N.T.S.

TYPE 1



TYPE 2



CHANNEL CUTOFF WALL (TYPE 1 AND TYPE 2)
N.T.S.

NOTES:
1. CUTOFF WALL SHALL BE INSTALLED AT UPSTREAM AND DOWNSTREAM END OF EACH GRADE BREAK SHOWN ON THE PROFILE OF THE CONCRETE LINED CHANNEL.
2. COMPACT SUBGRADE UNDER CONCRETE CHANNEL LINING TO 95% OF MAXIMUM DENSITY.
3. WELDED WIRE FABRIC SHALL MEET THE REQUIREMENTS OF ASTM A1064 AND THE MINIMUM OVERLAP LENGTH IS 12–INCHES.
4. CONCRETE SHALL BE CLASS "A" 3000 PSI WITH A ROUGHENED SURFACE.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

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NO.	DESCRIPTION	REV BY	CK'D BY	DATE

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REGISTERED PROFESSIONAL ENGINEER CERTIFICATE NO. 70671 CAMERON RAGAN Date Signed 5/23/24 ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	193	368	

5/24
DATE:

AZTEC TYPSA

DRAWN: LNB | DESIGN: FCS | CHECKED: CJR

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CONCRETE CHANNEL DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: LNB	DES: FCS	CK: CJR	DWG. NO. DR–1.15
DATE: 5/24	DATE: 5/24	DATE: 5/24	
			193 OF 364

SHEET NAME: ST85100437SDD14.DWG, PLOT DATE: 4/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 70671 CAMERON RAGAN Date Signed 5/23/24 ARIZONA U.S.A.

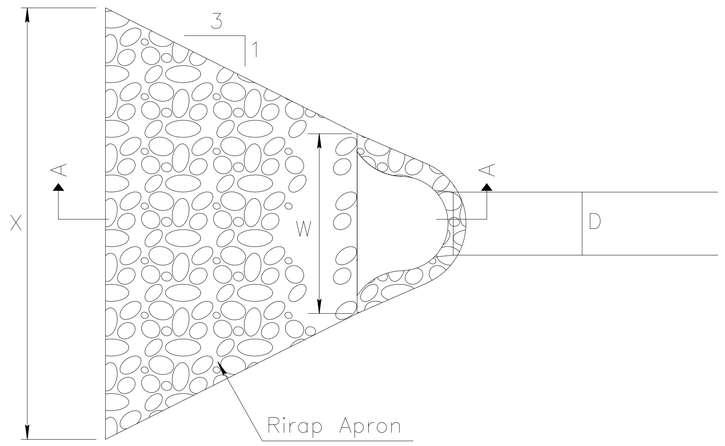
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	194	368	

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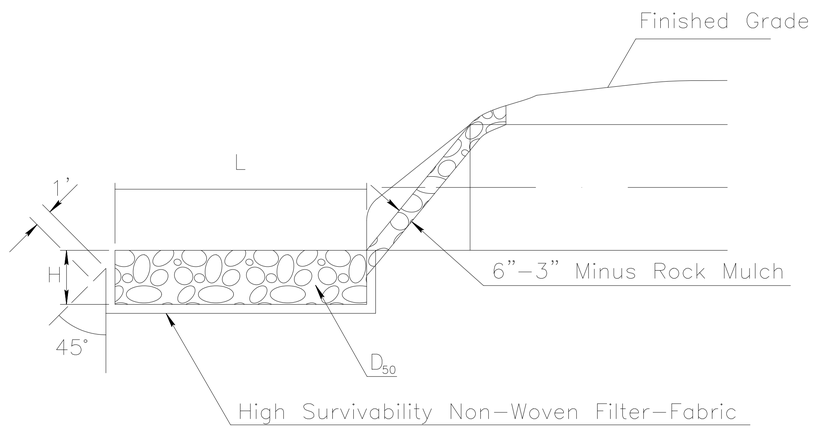
DRAWN: LNB | DESIGN: FCS | CHECKED: CJR

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



PLAN

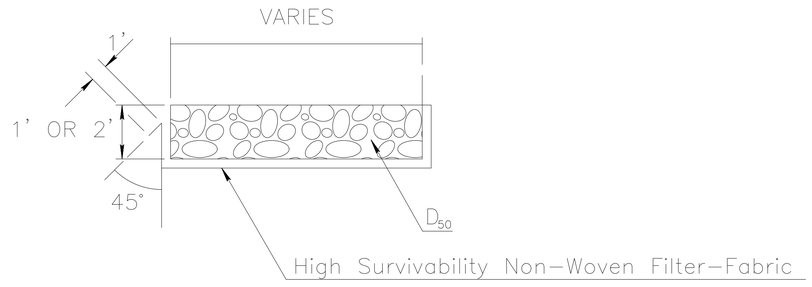


SECTION A–A

OUTLET RIPRAP APRON DETAIL
N.T.S.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



CHANNEL RIPRAP APRON DETAIL
N.T.S.

DUMPED RIPRAP GRADATION

Riprap Gradation, d_{50}=12"	
% Passing	Size (in)
100	18
85	16
50	12
15	6

Riprap Gradation, d_{50}=6"	
% Passing	Size (in)
100	9
85	8
50	6
15	3

Pipe Size D (in)	Riprap D (in)	W (ft)	L (ft)	X (ft)	H (in)
18 & 24	6	6	8	12	12

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

RIPRAP & APRON DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: LNB	DES: FCS	CK: CJR	DWG. NO. DR–1.16
DATE: 5/24	DATE: 5/24	DATE: 5/24	

SHEET NAME: ST85100437SDD15.DWG, PLOT DATE: 4/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N

REGISTERED PROFESSIONAL ENGINEER (CERTIFICATE NO.) 70671 CAMERON RAGAN Date Signed 5/23/24 ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	195	368	

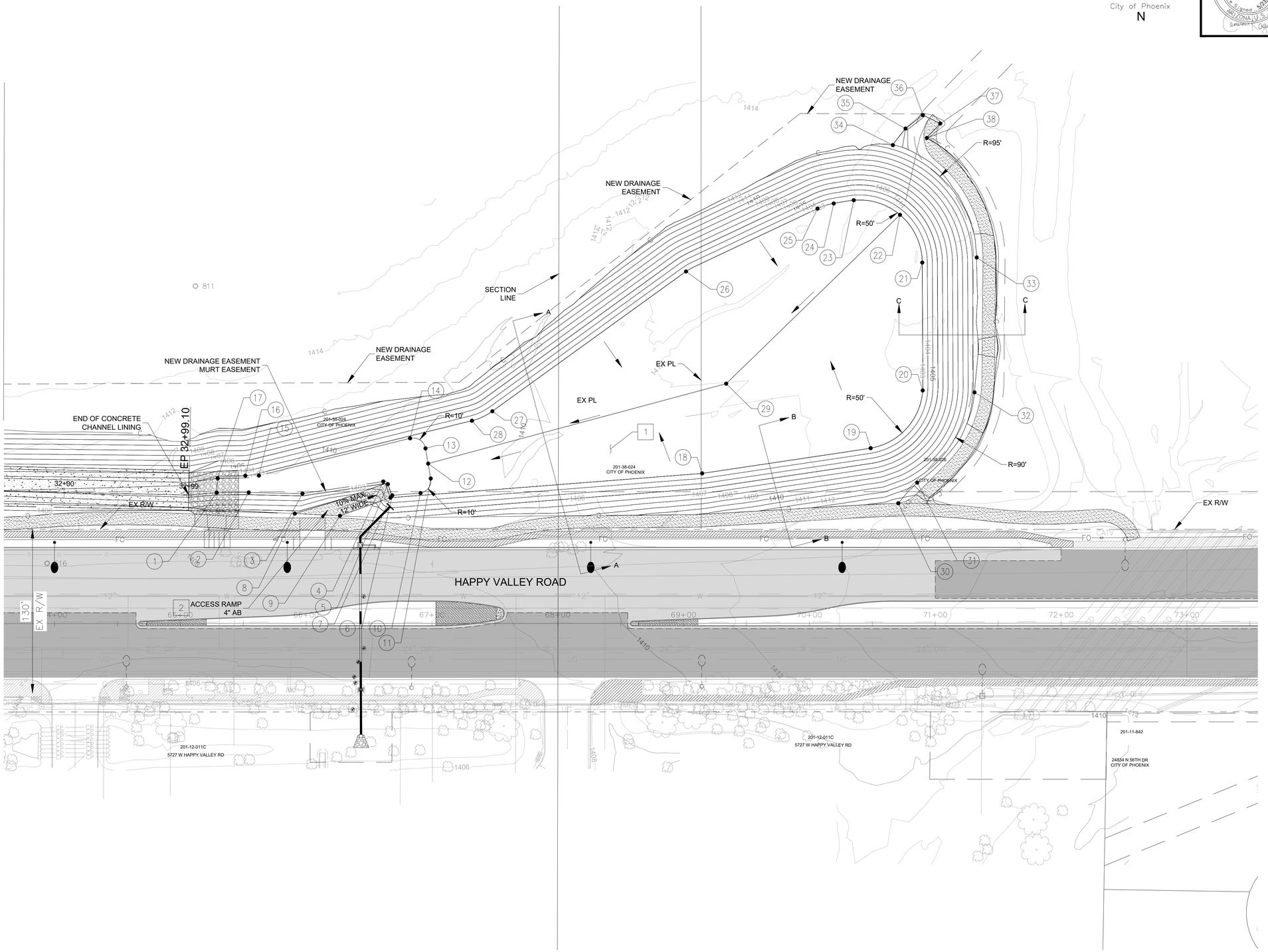
5/24 DATE:

AZTEC TYPSA

DRAWN: LNB | DESIGN: FCS | CHECKED: CJR

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



CONSTRUCTION NOTES

NO.	DESCRIPTION	UNITS	QUANTITY
1	BASIN EXCAVATION	CY	27,385
2	AGGREGATE BASE COURSE 4" THICK	TON	0.7

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RETENTION GRADING DETAIL

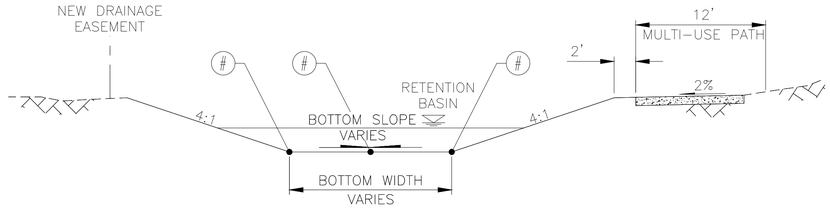
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

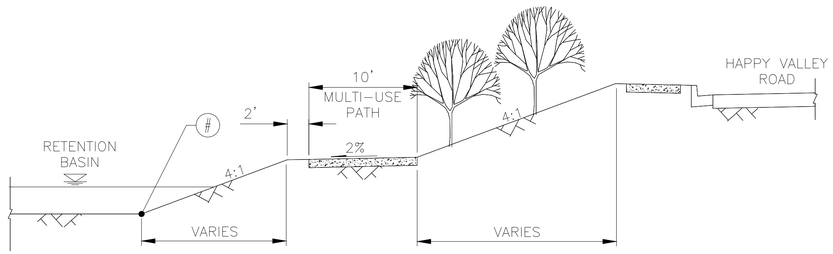
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DATE: 5/24	DATE: 5/24	DATE: 5/24	195 OF 364

SHEET NAME: ST85100437SDD16.DWG, PLOT DATE: 4/23/2024

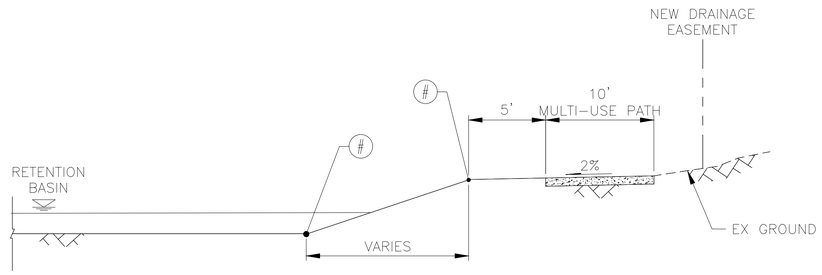
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



Section A-A



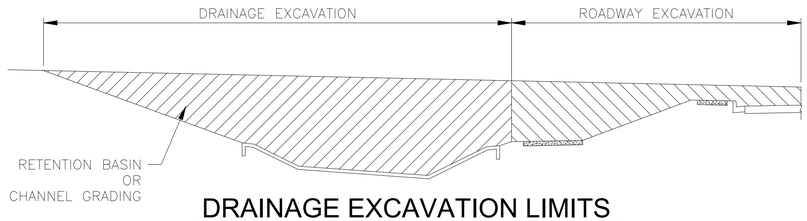
Section B-B



Section C-C

GRADING CONTROL POINTS			
POINT	STATION	OFFSET	ELEVATION
1	65+28.81	104.17Lt	1402.55
2	65+54.30	104.32Lt	1402.55
3	65+97.04	103.41Lt	1402.55
4	66+61.33	112.99Lt	1402.55
5	66+64.83	111.38Lt	1402.55
6	66+68.14	102.01Lt	1402.55
7	66+66.95	100.11Lt	1403
8	65+90.93	87.50Lt	1406.34
9	66+26.83	85.75Lt	1406.46
10	66+90.38	103.75Lt	1402.55
11	66+98.99	115.39Lt	1402.55
12	66+96.93	127.22Lt	1402.55
13	66+94.84	139.27Lt	1402.55
14	66+83.03	147.42Lt	1402.55
15	65+58.44	116.75Lt	1402.55
16	65+48.69	115.69Lt	1402.55
17	65+29.66	115.57Lt	1402.55
18	69+14.72	119.47Lt	1403
19	70+47.68	139.33Lt	1403
20	70+90.16	189.00Lt	1403
21	70+89.68	286.98Lt	1403
22	70+71.97	324.90Lt	1403
23	70+34.01	336.41Lt	1403
24	70+17.62	333.72Lt	1403
25	70+08.49	330.80Lt	1403
26	69+05.33	282.03Lt	1403
27	67+45.49	167.18Lt	1403
28	67+33.07	161.62Lt	1403
29	69+33.85	190.76Lt	1402.72
30	70+70.50	95.57Lt	1414.54
31	70+85.21	111.73Lt	1412.83
32	71+32.14	194.36Lt	1413.5
33	71+32.69	294.87Lt	1413.84
34	70+66.35	380.32Lt	1414.83
35	70+76.40	393.46Lt	1415
36	70+90.17	404.17Lt	1415
37	71+04.00	397.43Lt	1415
38	70+93.03	386.12Lt	1415

NOTES:
1. ALL STATION & OFFSETS ARE FROM CENTERLINE OF HAPPY VALLEY RD CONSTRUCTION CENTERLINE.



DRAINAGE EXCAVATION LIMITS

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REGISTERED PROFESSIONAL ENGINEER – CERTIFICATE NO. 70671 – CAMERON RAGAN – Date Signed 5/23/24 – ARIZONA, U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	196	368	

5/24 DATE: AZTEC TYPSA

DRAWN: LNB | DESIGN: FCS | CHECKED: CJR

CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY

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RETENTION CONTROL DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: LNB	DES: FCS	CK: CJR	DWG. NO. DR-1.18
DATE: 5/24	DATE: 5/24	DATE: 5/24	196 OF 364

SHEET NAME: ST85100437SDD17.DWG, PLOT DATE: 4/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

Registered Professional Engineer (Civil)
CERTIFICATE NO.
39284
TRENT W. THATCHER
ARIZONA
Date Signed 10/31/2024
Trent W. Thatcher

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	197	368	

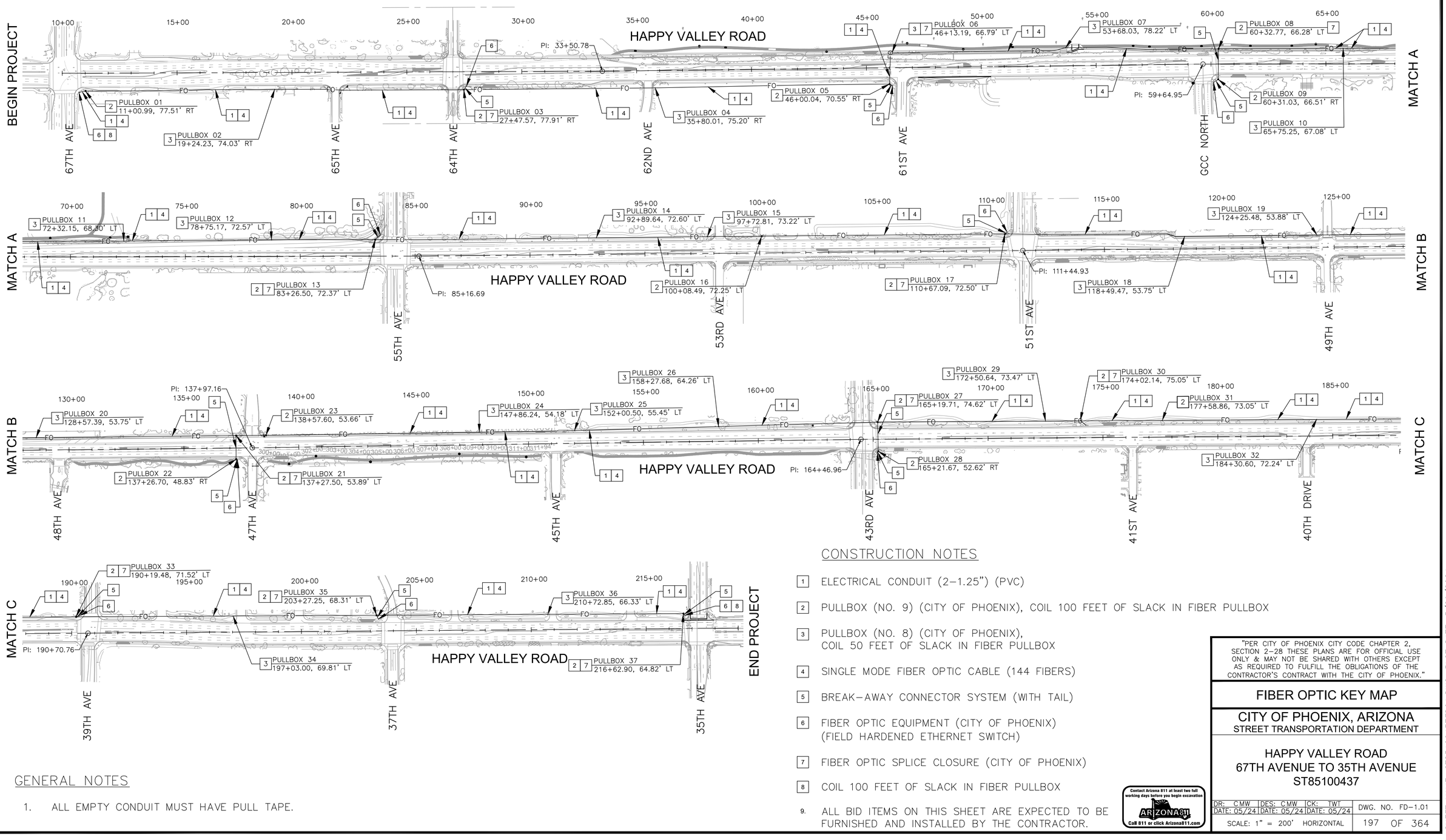
05/2024
DATE:

WILSON & COMPANY

DRAWN: C MW | DESIGN: C MW | CHECKED: TWT

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



GENERAL NOTES

1. ALL EMPTY CONDUIT MUST HAVE PULL TAPE.

CONSTRUCTION NOTES

1. ELECTRICAL CONDUIT (2–1.25") (PVC)
2. PULLBOX (NO. 9) (CITY OF PHOENIX), COIL 100 FEET OF SLACK IN FIBER PULLBOX
3. PULLBOX (NO. 8) (CITY OF PHOENIX), COIL 50 FEET OF SLACK IN FIBER PULLBOX
4. SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)
5. BREAK–AWAY CONNECTOR SYSTEM (WITH TAIL)
6. FIBER OPTIC EQUIPMENT (CITY OF PHOENIX) (FIELD HARDENED ETHERNET SWITCH)
7. FIBER OPTIC SPLICE CLOSURE (CITY OF PHOENIX)
8. COIL 100 FEET OF SLACK IN FIBER PULLBOX
9. ALL BID ITEMS ON THIS SHEET ARE EXPECTED TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

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FIBER OPTIC KEY MAP

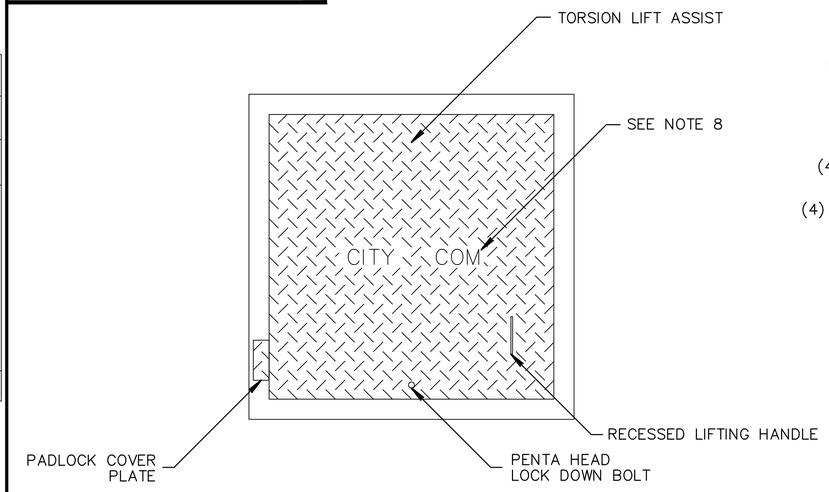
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

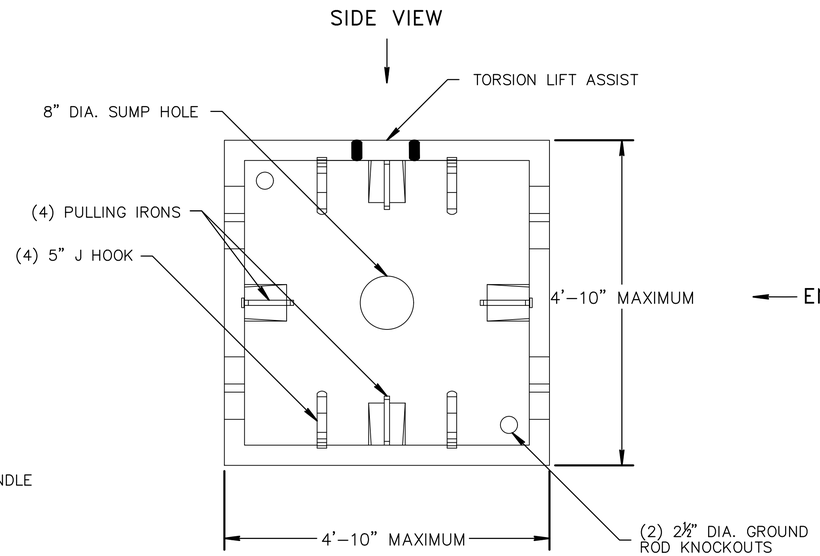
DR: C MW	DES: C MW	CK: TWT	DWG. NO. FD–1.01
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 200' HORIZONTAL			197 OF 364

SHEET NAME: ST85100437FD01.DWG, PLOT DATE: 5/29/2024

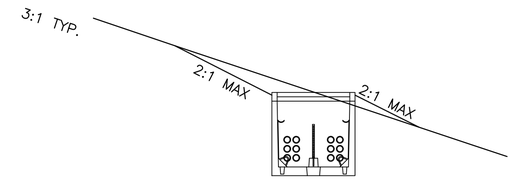
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



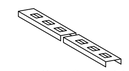
PLAN VIEW WITH COVER



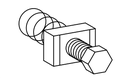
PLAN VIEW



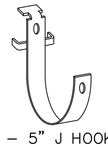
INSTALLATION IN SLOPED AREAS



6 – 18 HOLE RACK



12 –1/2" SPRING NUTS AND BOLT



4 – 5" J HOOKS

RACKING PACKAGE

SIDE VIEW

END VIEW

NOTES:

1. PULL BOX AND LID SHALL BE RATED FOR HS20–44 LOADING.
2. LID SHALL OPEN 180 DEGREES WITH A TORSION BAR LIFT ASSIST.
3. LID SHALL BE DIAMOND PLATE AND HAVE GALVANIZED FINISH.
4. COVER HARDWARE SHALL BE CADMIUM PLATED.
5. RECESSED PADLOCK MAY BE LOCATED ON EITHER SIDE OR ON THE OPENING SIDE OF THE COVER.
6. LIFTING EYES SHALL BE LOCATED AS SHOWN IN PLAN VIEW. NO DEVIATIONS ACCEPTED.
7. SEALANT SHALL BE PLACED BETWEEN VAULT AND LID.
8. "CITY COM" LETTERING SIZE SHALL HAVE A TEXT HEIGHT OF 2 INCHES. CONTRACTOR SHALL SUBMIT PROPOSED LETTERING FOR ENGINEER APPROVAL FOR PHOENIX LOCATIONS.
9. NEW PULL BOXES INSTALLED TO REPLACE EXISTING PULL BOXES SHALL BE A SPLIT NO. 9 PULL BOX INSTALLED OVER EXISTING CONDUIT AND FIBER.
10. ALL CONNECTION DETAILS TO EXISTING TRAFFIC SIGNAL CABINETS ARE REQUIRED.

CITY OF PHOENIX NO. 9 PULL BOX
(WITH HINGED LID) DETAILS

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

Registered Professional Engineer (Civil)
CERTIFICATE NO.
39284
TRENT W. THATCHER
ARIZONA
Date Signed 05/29/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	198	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: CMW | DESIGN: CMW | CHECKED: TWT

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ARIZONA811
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"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

CITY OF PHOENIX NO. 9 PULL BOX
(WITH HINGED LID) DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: CMW	DES: CMW	CK: TWT	DWG. NO. FD–1.02
DATE: 05/24	DATE: 05/24	DATE: 05/24	
			198 OF 364

SHEET NAME: ST85100437FD02.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	199	368	

05/2024 DATE:

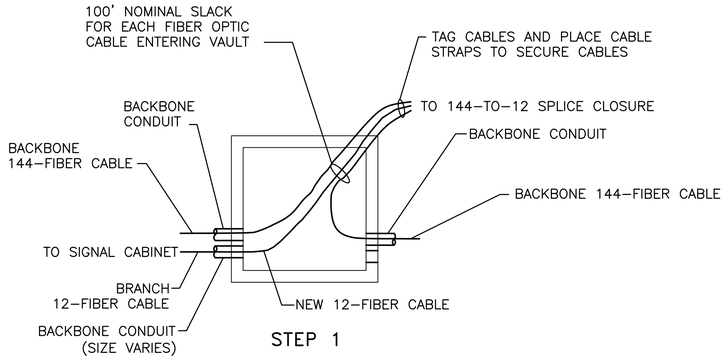
WILSON & COMPANY

DRAWN: CMW | DESIGN: CMW | CHECKED: TWT

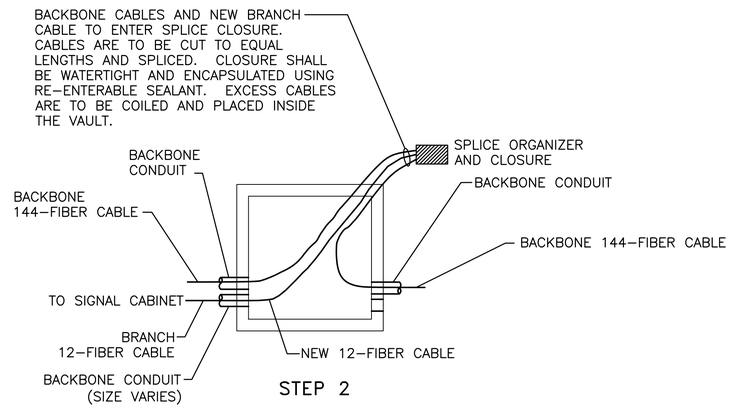
Registered Professional Engineer (Civil) CERTIFICATE NO. 39284 TRENT W. THATCHER ARIZONA United States of America

REVISION BY CITY OF PHOENIX

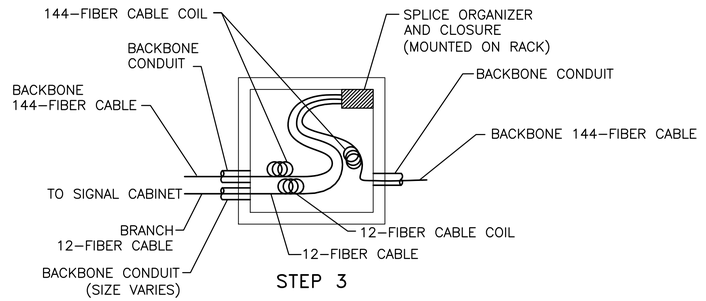
NO.	DESCRIPTION	REV BY	CKD BY	DATE



STEP 1

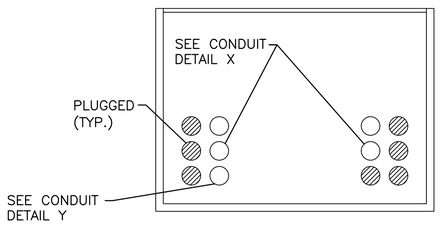


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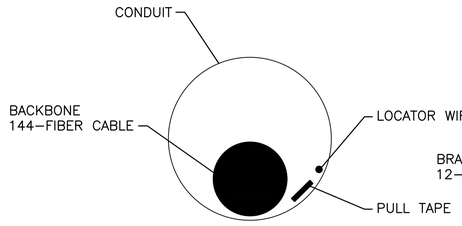


STEP 3

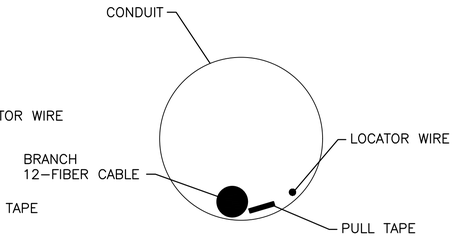
TYPICAL FIBER OPTIC SPLICE PROCEDURE



TYPICAL CABLE PLACEMENT IN NO. 9 PULL BOX
END VIEW



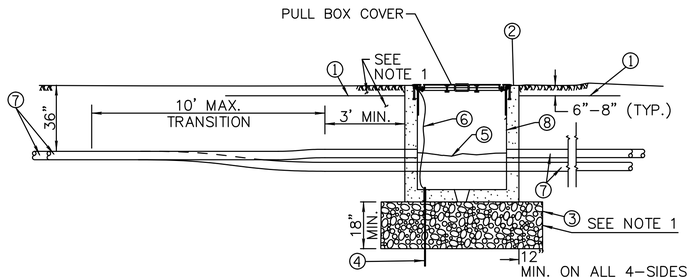
CONDUIT DETAIL X



CONDUIT DETAIL Y

SPLICE PROCEDURES NOTES:

1. COIL SLACK FOR ALL FIBER OPTIC CABLES IN EACH NO. 9 PULL BOX.
2. ALL COMMUNICATIONS CABLES SHALL BE TAGGED WITH CABLE IDENTIFICATION OF SIZE (I.E. 144–FIBER, SMFO) AND CITY OWNER.



CONDUIT PLACEMENT AND COILING DETAIL
SIDE VIEW

MATERIAL LIST	
ITEM	DESCRIPTION
①	WARNING TAPE
②	NO. 9 PULL BOX
③	AGG. DESIGNATED SIZE NO. 57
④	GROUND ROD OR 25' OF BARE COPPER 4 AWG
⑤	DETECTABLE PULL TAPE
⑥	#6 AWG GROUNDING WIRE TO LID
⑦	CONDUIT PER PLANS
⑧	RACK AND HOOK (EACH WALL TYP.)

PULL BOX NO. 9
WIRING DETAILS

CONDUIT PLACEMENT AND COILING DETAIL NOTES:

1. NUMBERS IN CIRCLES REFER TO ITEMS IN MATERIAL LIST.
2. BACKFILL WITH DESIGNATED SIZE NO. 57 AGGREGATE BELOW PULL BOX AND EXTENDED 12" MIN BEYOND PULL BOX EDGES ON ALL 4–SIDES. BACKFILL AROUND SIDES OF PULL BOX WITH SELECT EXCAVATED MATERIAL AND COMPACT AT 95% MAX. DENSITY.
3. CONDUIT FROM TYPICAL TRENCH SECTION SHALL NOT DEFLECT BY MORE THAN 1 INCH PER FOOT FROM THE ALIGNMENT PRECEDING OR FOLLOWING THE PULL BOX.
4. THE NO. 9 PULL BOX SHALL MEASURE 45" ±3" FOR ALL INTERIOR DIMENSIONS OF THE PULL BOX, MEASURED AT TOP OF PULL BOX. THIS MEASUREMENT SHALL ALSO APPLY TO INTERIOR DEPTH.
5. PULLING IRONS NEAR BOTTOM OF PULL BOX. SEE SHEET 191 FOR NO. 9 BOX DETAILS.
6. ALL NEW PULL BOXES SHALL BE FURNISHED WITH RACKS AND HOOKS INSTALLED. SEE SHEET 191 FOR NO. 9 BOX DETAILS.
7. PROVIDE TOTAL SLACK PER PLAN FOR EACH FIBER OPTIC CABLE COILED IN ALL NO. 9 PULL BOXES, WITH SPLICE CLOSURE MOUNTED ON RACK.

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ARIZONA811 Call 811 or click Arizona811.com

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CITY OF PHOENIX NO. 9 PULL BOX AND FIBER CABLE INSTALLATION DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: CMW	DES: CMW	CK: TWT	DWG. NO. FD–1.03
DATE: 05/24	DATE: 05/24	DATE: 05/24	

SHEET NAME: ST85100437FD03.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	200	368	

Registered Professional Engineer (Civil) CERTIFICATE NO. 39284 TRENT W. THATCHER ARIZONA U.S.A.

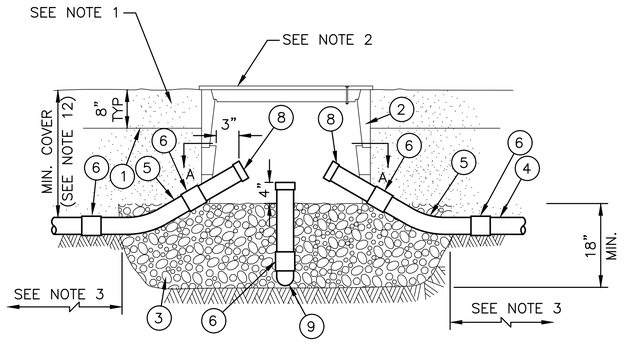
05/2024 DATE:

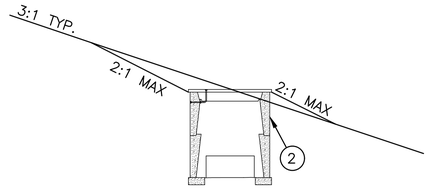
WILSON & COMPANY

DRAWN: CMW | DESIGN: CMW | CHECKED: TWT

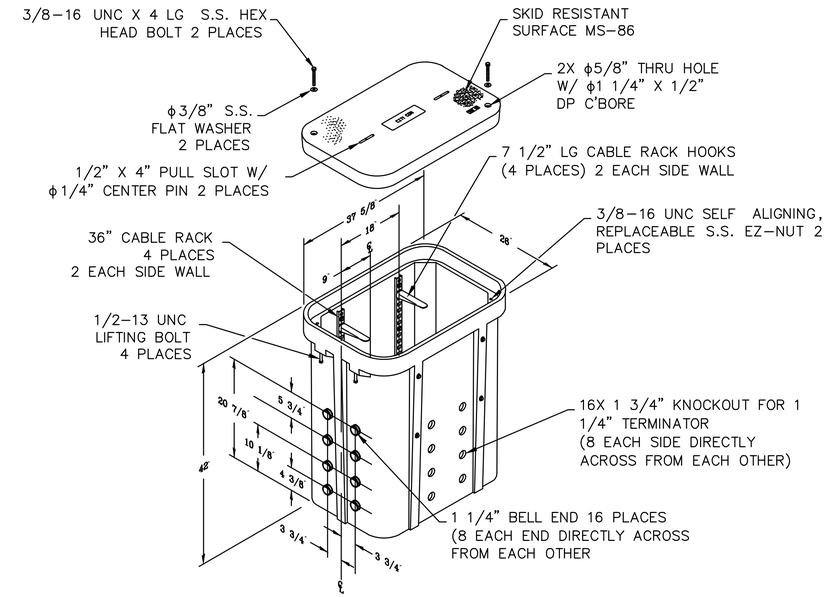
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE





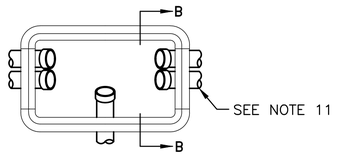
INSTALLATION IN SLOPED AREAS



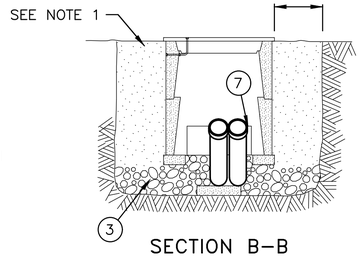
CITY OF PHOENIX NO. 8 PULL BOX DETAIL
N.T.S.

NOTES:

1. "CITY COM" SHALL BE CAST ON PULL BOX COVER IN 1" HIGH LETTERS.
2. BACKFILL WITH CLASS "A" CONC. AGG. DESIGNATED SIZE NO. 57 TO BOTTOM OF THE PULL BOX. BACKFILL AROUND SIDES OF THE PULL BOX WITH EXCAVATED MATERIAL AND COMPACT TO 95% OF MAXIMUM DENSITY.
3. ALL PULL BOXES AND COVERS SHALL BE AASHTO H–10 RATED WITH POLYMER CONCRETE OR FIBERLYTE COVERS.
4. CONDUIT ALIGNMENT OFFSETS ARE TO BE ACCOMPLISHED BY A UNIFORM RATE OF CONDUIT DEFLECTION OVER A DISTANCE EQUAL TO OR LESS THAN 1" PER FOOT OF DISTANCE.
5. ALL POWER AND COMMUNICATIONS CABLE SHALL BE TAGGED WITH CABLE IDENTIFICATION.
6. NUMBERS IN CIRCLES REFER TO ITEMS IN MATERIAL LIST.
7. USE PVC TO EXTEND INTO PULL BOX.
8. REFER TO CITY OF PHOENIX TRAFFIC SIGNALS AND LIGHTING STANDARD NO. 8 DETAIL ON THIS SHEET AND NO. 9 DETAIL ON PAGE 198.
9. EXPANSION JOINT MATERIAL SHALL BE USED AROUND PULL BOX WHEN INSTALLED IN CONCRETE AREA.
10. FOR MATERIAL AND CONSTRUCTION REQUIREMENTS SEE PROJECT SPECIFICATIONS.
11. LATERAL CONDUITS AS REQUIRED.
12. MINIMUM COVER IS 36 INCHES UNLESS OTHERWISE NOTED ON THE PLANS.



SECTION A–A



SECTION B–B

MATERIAL LIST	
ITEM	DESCRIPTION
1	MARKER TAPE
2	NO. 8 PULL BOX WITH EXTENSION
3	AGG. DESIGNATED SIZE NO. 57
4	SCHEDULE 40 PVC CONDUIT
5	30 DEGREE PVC ELBOW, 36" RADIUS
6	PVC COUPLING
7	KNOCK OUT
8	BELL END FOR PVC
9	90 DEGREE PVC ELBOW, 36" RADIUS PER ADOT SECTION 732–2.02 & 3.01

NO. 8 PULL BOX INSTALLATION

NOTES:

1. ONE – 5/8" X 8' COPPER–CLAD GROUND ROD (10 MILS MIN) SHALL BE INSTALLED IN ONE CORNER OF PULL BOX

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FIBER OPTIC DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: CMW	DES: CMW	CK: TWT	DWG. NO. FD–1.04
DATE: 05/24	DATE: 05/24	DATE: 05/24	200 OF 364

SHEET NAME: ST85100437FD04.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	201	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: CMW | DESIGN: CMW | CHECKED: TWT

Registered Professional Engineer (Civil) CERTIFICATE NO. 39284 TRENT W. THATCHER ARIZONA

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

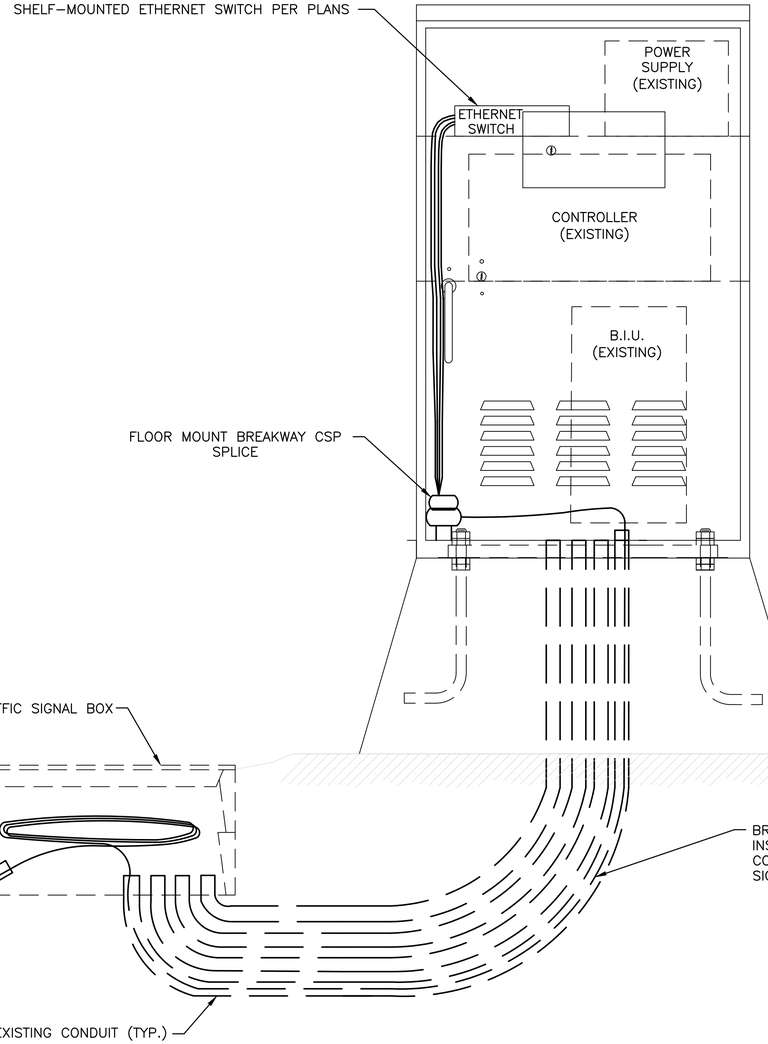
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REVISION BY CITY OF PHOENIX

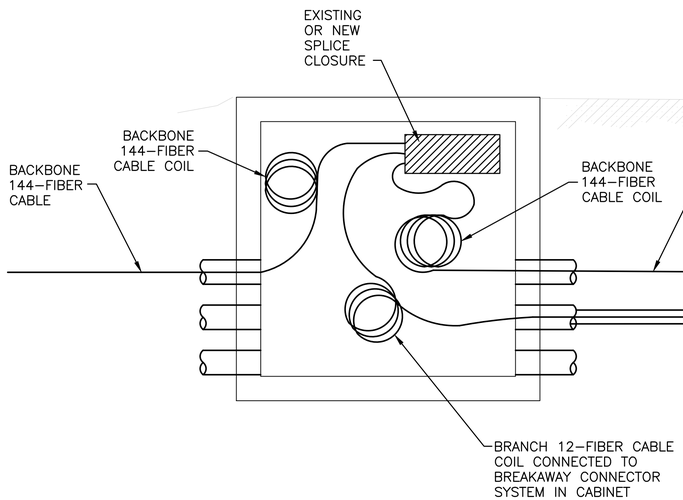
NO.	DESCRIPTION	REV BY	CKD BY	DATE

NOTES:

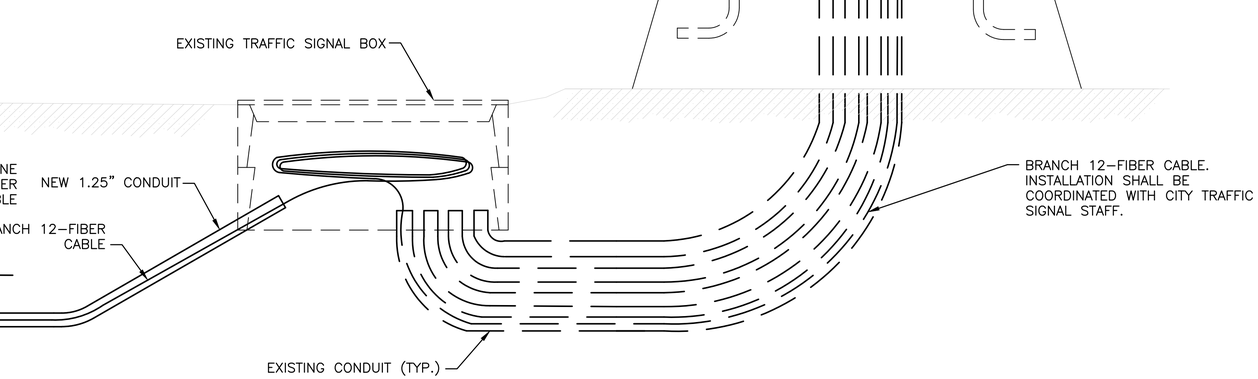
1. COIL REQUIRED FEET OF SLACK FOR FIBER OPTIC CABLES IN PULL BOXES AS DESIGNATED BY CONSTRUCTION NOTES.
2. DISTANCES BETWEEN PULL BOXES SHALL NOT EXCEED 1,500 FEET.
3. ALL COMMUNICATIONS CABLES SHALL BE TAGGED WITH CABLE IDENTIFICATION.
4. INSTALL NEW FIELD HARDENED ETHERNET SWITCH AT SIGNAL CONNECTIONS AS DESIGNATED BY CONSTRUCTION NOTES ON PLANS.
5. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MOUNTING HARDWARE.
6. MINIMUM BENDING RADIUS MUST BE MAINTAINED FOR FIBER OPTIC CABLE.
7. FIELD HARDENED ETHERNET SWITCH SHALL BE EQUIPPED WITH SC, LC, AND SFP CONNECTORS.
8. NUMBER AND SIZE OF EXISTING CONDUITS BETWEEN PULL BOX AND CABINET VARY BY SIGNAL LOCATION. CONTRACTOR SHALL COORDINATE WITH CITY AND OBTAIN THEIR APPROVAL REGARDING WHICH EXISTING CONDUIT TO USE WHEN INSTALLING THE 12–FIBER CABLE CONNECTED TO THE BREAKAWAY CONNECTOR SYSTEM MOUNTED IN THE TRAFFIC SIGNAL CABINET.
9. CONTRACTOR SHALL COORDINATE WITH CITY INSPECTOR ON WHICH CONDUIT PATH TO USE TO ENTER THE TRAFFIC SIGNAL CONTROLLER.



CITY OF PHOENIX TRAFFIC SIGNAL CABINET ELEVATION VIEW



CITY OF PHOENIX NO. 9 PULL BOX PLAN VIEW



HOME RUN CITY OF PHOENIX NO. 8 PULL BOX NEXT TO TRAFFIC SIGNAL CABINET PLAN VIEW

CITY OF PHOENIX
GROUND MOUNTED CABINET
FIBER CABLE INSTALLATION

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FIBER OPTIC DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: CMW	DES: CMW	CK: TWT	DWG. NO. FD–1.05
DATE: 05/24	DATE: 05/24	DATE: 05/24	
			201 OF 364

SHEET NAME: ST85100437FD05.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	202	368	

05/2024 DATE:

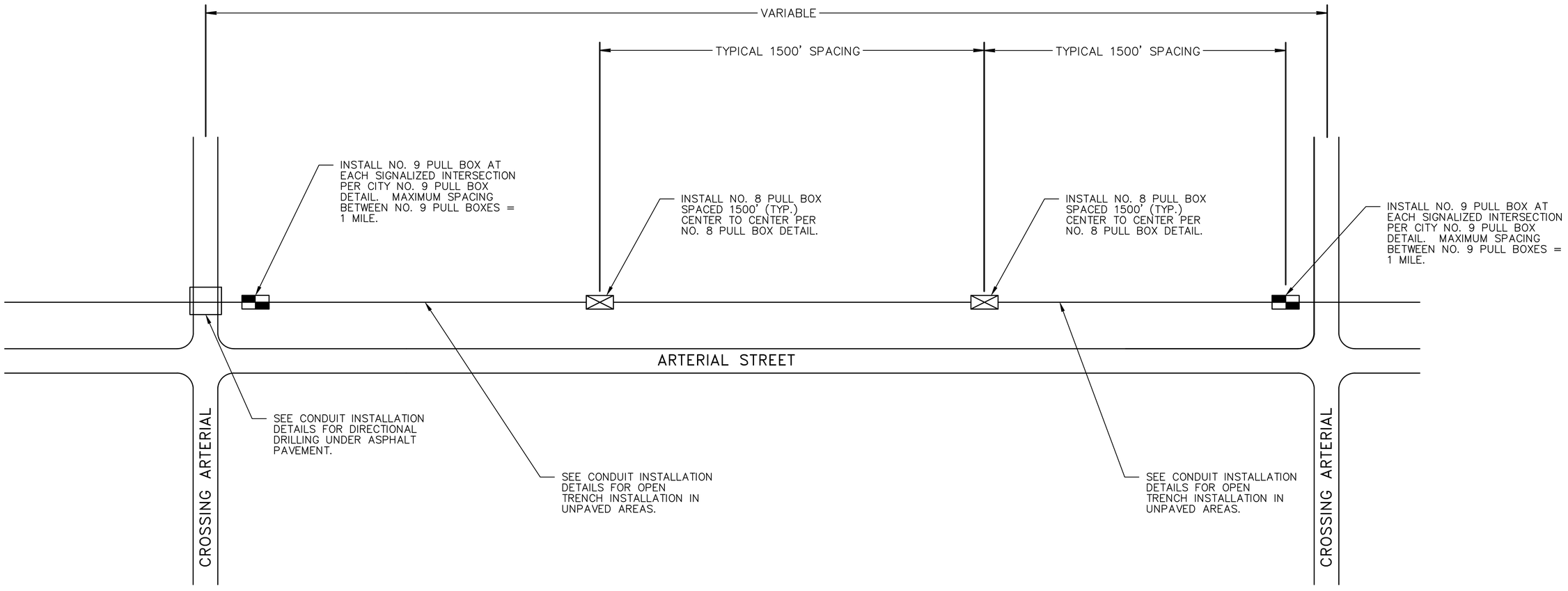
WILSON & COMPANY

DRAWN: CMW | DESIGN: CMW | CHECKED: TWT

Registered Professional Engineer (Civil) CERTIFICATE NO. 39284 TRENT W. THATCHER ARIZONA

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



NOTE:

THE CUMULATIVE SUM OF BENDS BETWEEN PULL BOXES SHALL NOT BE GREATER THAN 180°. ADD ADDITIONAL PULL BOXES AS NECESSARY TO ACHIEVE THIS REQUIREMENT WHEN MAKING FIELD ADJUSTMENTS TO THE CONDUIT ROUTE.

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ARIZONA811
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TYPICAL ITS PULL BOX AND CONDUIT LOCATIONS

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TYPICAL ITS PULL BOX AND CONDUIT LOCATIONS

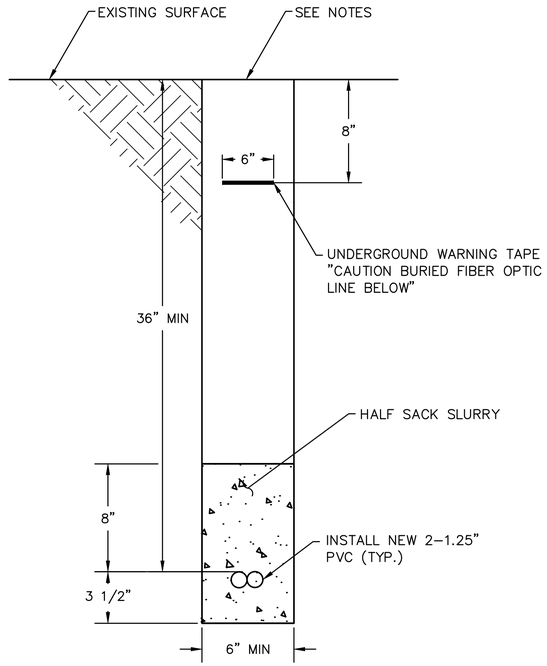
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: CMW	DES: CMW	CK: TWT	DWG. NO. FD-1.06
DATE: 05/24	DATE: 05/24	DATE: 05/24	
			202 OF 364

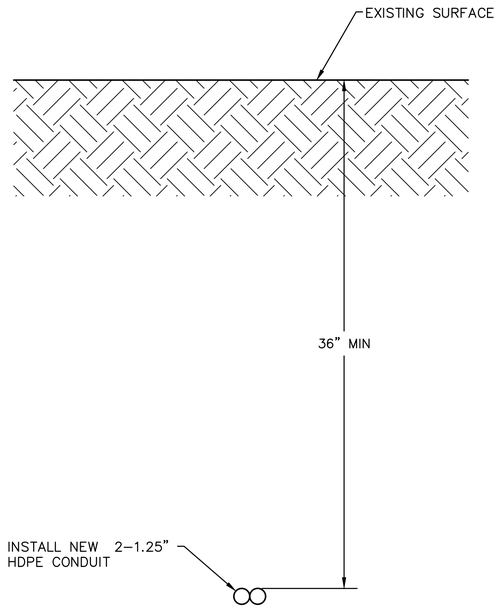
SHEET NAME: ST85100437FD06.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



DETAIL C.2 (FOR OPEN TRENCH
INSTALLATION OF TWO NEW CONDUITS)

N.T.S.



DETAIL D.2 (FOR DIRECTIONAL DRILL
OF TWO NEW CONDUITS)

N.T.S.

Registered Professional Engineer (Civil)
CERTIFICATE NO.
39284
TRENT W.
THATCHER
Date Signed 10/31/2025
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	203	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: CMW | DESIGN: CMW | CHECKED: TWT

NOTES:

1. ALL SPOIL MATERIALS SHALL BE REMOVED OFFSITE BY THE CONTRACTOR.
2. AREA SHALL BE RETURNED TO EXISTING GRADE.
3. CONDUIT COUPLINGS SHALL BE STAGGERED.
4. PULL TAPE AND LOCATOR WIRE SHALL BE INSTALLED IN ALL EMPTY CONDUIT.
5. BACKFILL MATERIALS ON OPEN TRENCHES SHALL BE PER CITY OF PHOENIX SUPPLEMENTS SECTION 336 AND 601.
6. HALF SACK SLURRY (SEE SECTION 501–3.04 OF THE ADOT 2008 SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION) REQUIRED FOR ALL CONDUIT TRENCH INSTALLATIONS.
7. CONCRETE CASING REQUIRED WHEN 36" MINIMUM DEPTH BELOW EXISTING SURFACE CANNOT BE ACHIEVED OR WHEN CALLED FOR IN THE PLAN SHEETS.
8. THE NUMBER OF EXISTING FIBER OPTIC CABLES AND INNERDUCT MAY VARY.
9. REFER TO PLAN SHEETS FOR CABLE SIZE AND QUANTITIES INSTALLED IN EXISTING OR NEW CONDUITS.
10. RESTORATION OF PAVEMENT PER CITY PAVEMENT CUT POLICY AS NEEDED. LANDSCAPE SHALL BE RESTORED AT NO ADDITIONAL COST.

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CONDUIT INSTALLATION DETAILS A-F

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: CMW	DES: CMW	CK: TWT	DWG. NO. FD–1.07
DATE: 05/24	DATE: 05/24	DATE: 05/24	
			203 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

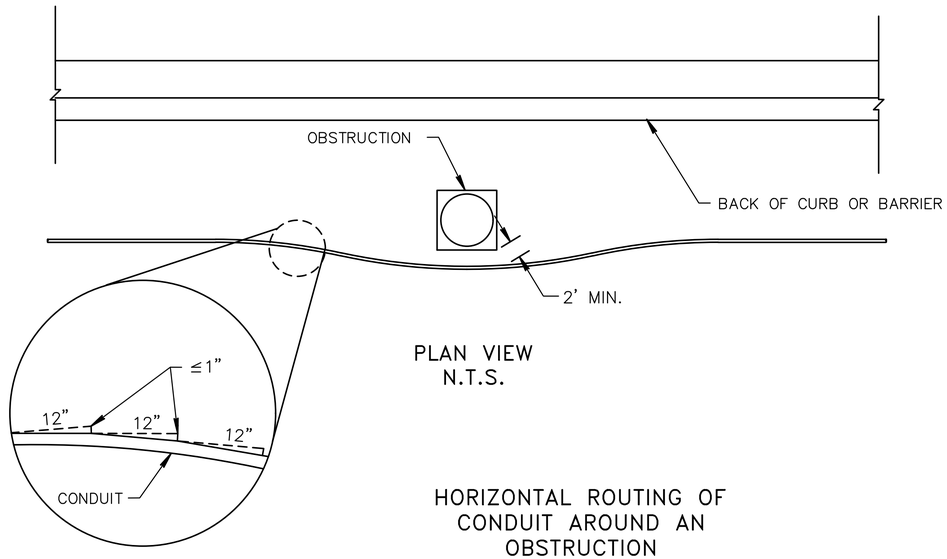
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

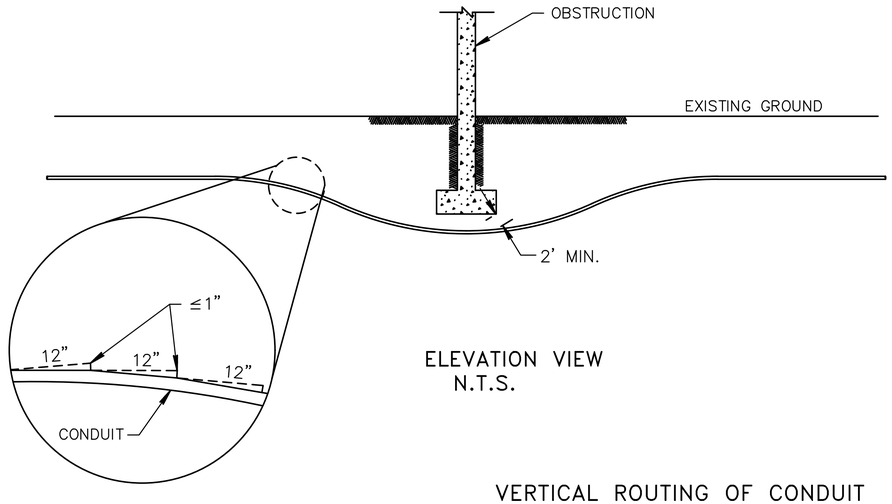
SHEET NAME: ST85100437FD07.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



PLAN VIEW
N.T.S.

HORIZONTAL ROUTING OF CONDUIT AROUND AN OBSTRUCTION



ELEVATION VIEW
N.T.S.

VERTICAL ROUTING OF CONDUIT UNDER AN OBSTRUCTION

NOTES:

1. CONDUIT DEFLECTION SHALL NOT EXCEED 1 INCH PER FOOT IN THE VERTICAL OR HORIZONTAL DIRECTION.
2. REFER TO GENERAL NOTES SHEET FOR VARYING VERTICAL CLEARANCE REQUIREMENTS FROM DIFFERENT UTILITY PROVIDERS.
3. IF VERTICAL CLEARANCE IS NOT SPECIFIED BY A UTILITY PROVIDER, THEN THE CONDUIT SHALL BE ROUTED NO CLOSER THAN 2 FEET TO ANY OBSTRUCTION.

Registered Professional Engineer (Civil)
CERTIFICATE NO.
39284
TRENT W. THATCHER
ARIZONA
United States of America

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	204	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: CMW | DESIGN: CMW | CHECKED: TWT

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

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BURIED CONDUIT INSTALLATION
AROUND OR UNDER OBSTRUCTION

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: CMW	DES: CMW	CK: TWT	DWG. NO. FD-1.08
DATE: 05/24	DATE: 05/24	DATE: 05/24	204 OF 364

SHEET NAME: ST85100437FD08.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	205	368	

05/2024 DATE:

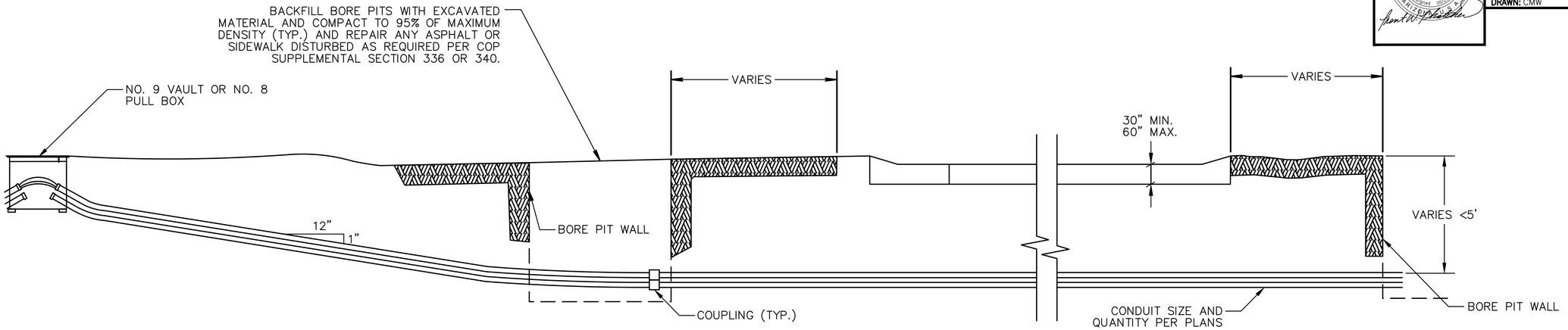
WILSON & COMPANY

DRAWN: CMW | DESIGN: CMW | CHECKED: TWT

Registered Professional Engineer (Civil) CERTIFICATE NO. 39284 TRENT W. THATCHER ARIZONA U.S.A. Date Signed 10/31/2024

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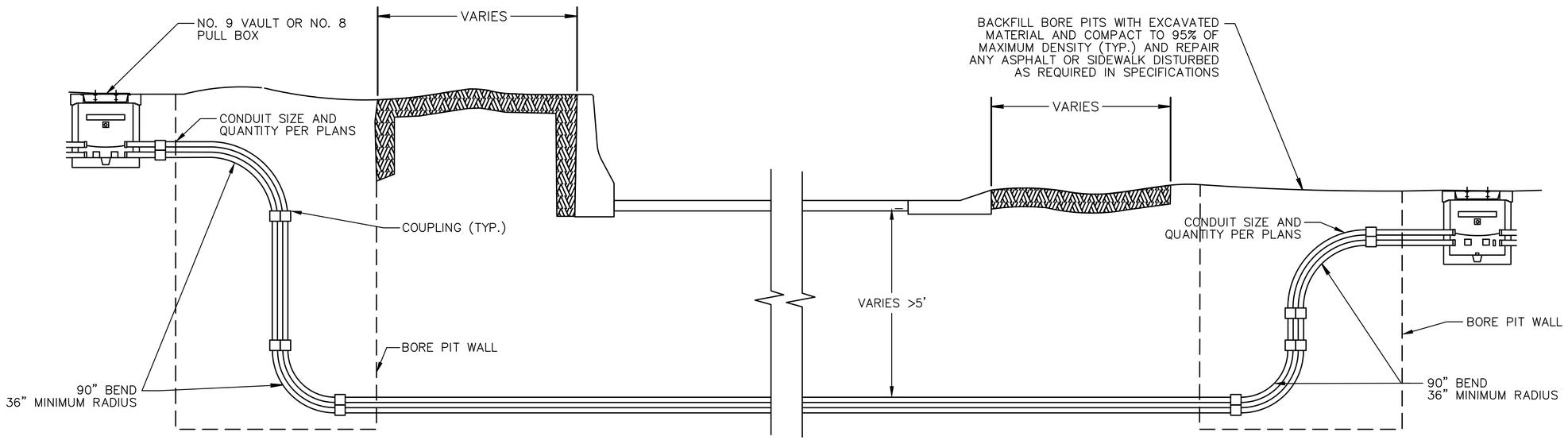
NO.	DESCRIPTION	REV BY	CKD BY	DATE



TYPICAL BORED CONDUIT
(FOR DEPTHS UP TO 5'–0"
BELOW TOP OF PAVEMENT)

NOTE:

CONDUIT INSTALLATION SHALL MEET ALL OF THE DIMENSIONAL REQUIREMENTS SHOWN IN THE DETAIL.



TYPICAL BORED CONDUIT
(GREATER THAN 5'–0" DEPTH
BELOW TOP OF PAVEMENT)

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BORED CONDUIT INSTALLATION

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: CMW	DES: CMW	CK: TWT	DWG. NO. FD–1.09
DATE: 05/24	DATE: 05/24	DATE: 05/24	
			205 OF 364

SHEET NAME: ST85100437FD09.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

Registered Professional Engineer (Civil)
CERTIFICATE NO.
39284
TRENT W. THATCHER
State Expires 12/31/2025

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	206A	368	

05/2024
DATE:

WILSON & COMPANY

DRAWN: CMW | DESIGN: CMW | CHECKED: TWT

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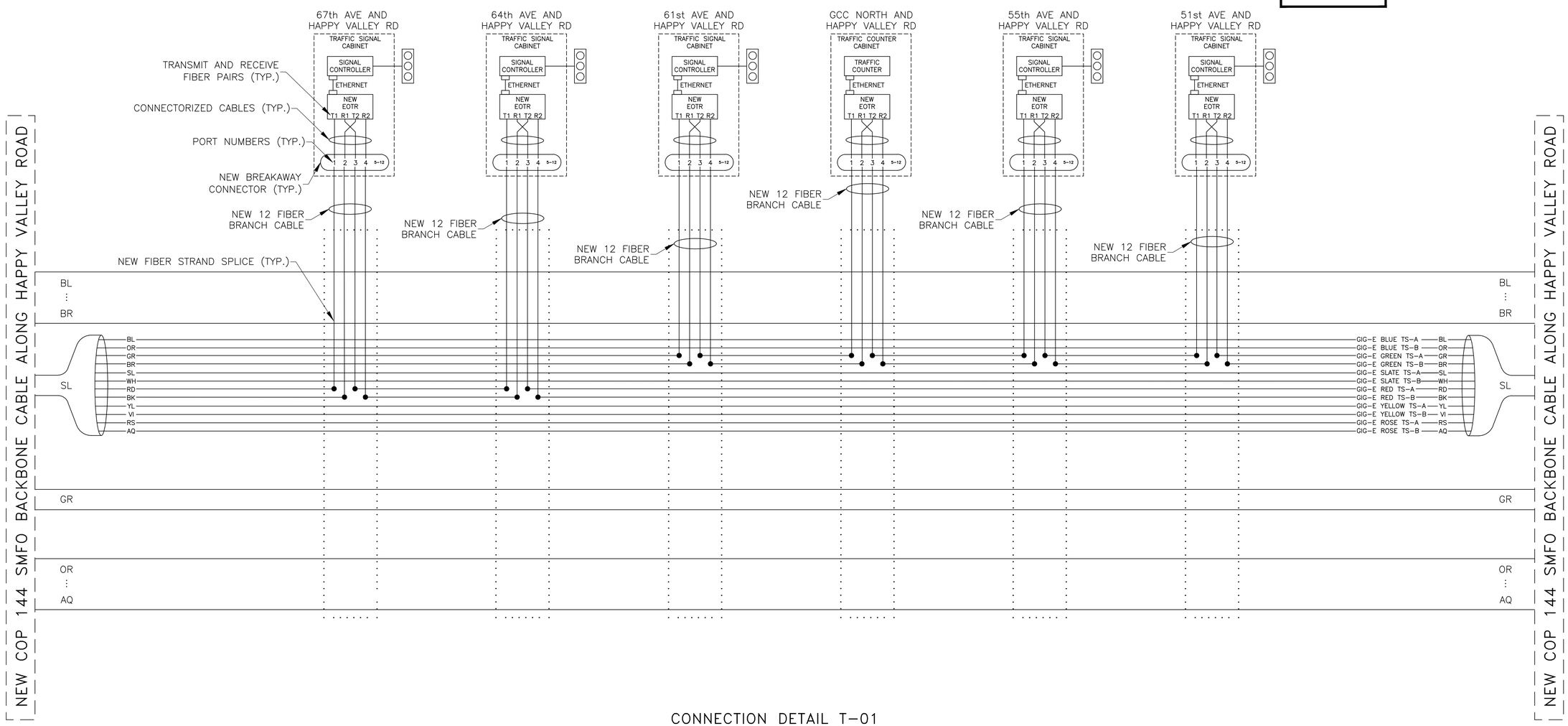
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



CONNECTION DETAIL T–01

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FIBER EQUIPMENT CONNECTION DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: CMW	DES: CMW	CK: TWT	DWG. NO. FD–1.09A
DATE: 05/24	DATE: 05/24	DATE: 05/24	206A OF 364

SHEET NAME: ST85100437FD10.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	206B	368	

05/2024 DATE:

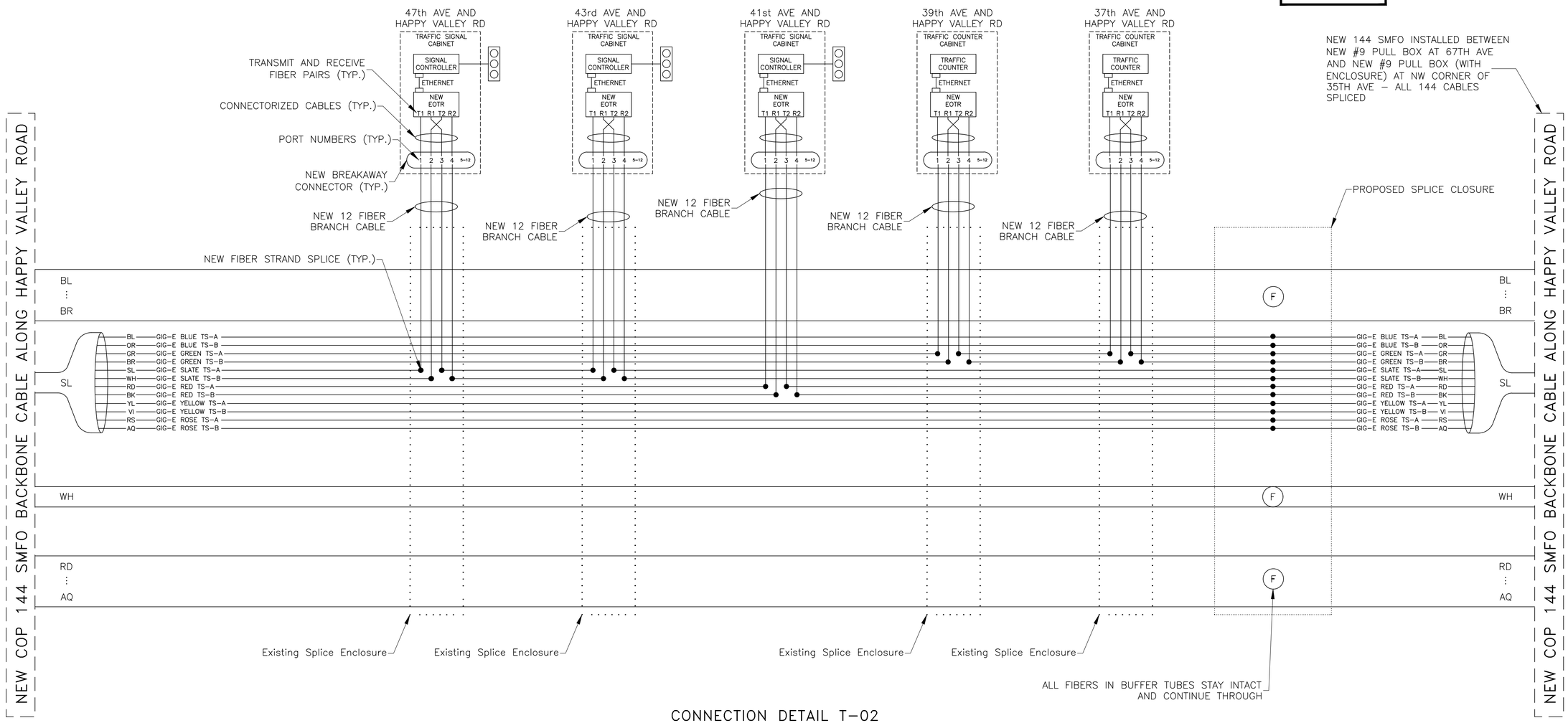
WILSON & COMPANY

DRAWN: CMW | DESIGN: CMW | CHECKED: TWT

Registered Professional Engineer (Civil) CERTIFICATE NO. 39284 TRENT W. THATCHER ARIZONA U.S.A. 05/31/2024

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



CONNECTION DETAIL T–02

GENERAL NOTE :

1. 35TH STREET'S ITS CONNECTION WILL BE MADE AS PART OF THE HAPPY VALLEY ROAD FIBER: 35TH AVENUE TO 23RD AVENUE PROJECT.

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ARIZONA811 Call 811 or click Arizona811.com

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FIBER EQUIPMENT CONNECTION DETAIL

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: CMW	DES: CMW	CK: TWT	DWG. NO. FD–1.09A
DATE: 05/24	DATE: 05/24	DATE: 05/24	206B OF 364

SHEET NAME: ST85100437FD10.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

ST85100437 HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
STORM WATER MANAGEMENT PLAN
PHOENIX, ARIZONA

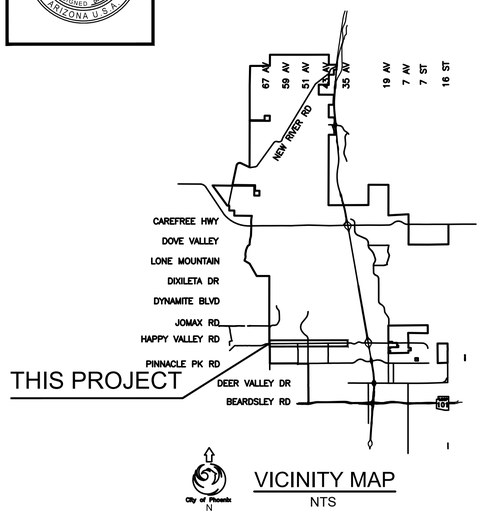
2023

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	207	368	

DATE: 05/2024

WILSON & COMPANY 410 N. 44th Street, Phoenix, Arizona 85008

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC



VICINITY MAP
NTS

STORM WATER MANAGEMENT PLAN NOTES

A COPY OF THE APPROVED GRADING AND DRAINAGE PAN FOR THIS PROJECT, TOGETHER WITH A COPY OF THE NOTICE OF INTENT (NOI) AND THIS STORM WATER MANAGEMENT PLAN (SWMP), SHALL BE MAINTAINED ON THE SITE AND AVAILABLE FOR REVIEW. THOSE ELEMENTS OF THE GRADING AND DRAINAGE PLAN PERTINENT TO OR REFERENCED ON THE SWMP SHALL BE CONSIDERED A PART OF THE SWMP.

PLANNING & DEVELOPMENT DEPARTMENT'S CIVIL/SITE INSPECTION GROUP SHALL BE NOTIFIED 48 HOURS BEFORE ANY ON-SITE AND/OR OFF-SITE CONSTRUCTION BEGINS, AT (602) 262-7811.

THE OPERATOR SHALL OBTAIN A DUST CONTROL PERMIT FROM MARICOPA COUNTY HEALTH DEPARTMENT AND PERFORM MEASURES AS REQUIRED BY THE PERMIT TO PREVENT EXCESS DUST.

THE OPERATOR SHALL PERFORM, AT A MINIMUM, A VISUAL INSPECTION OF THE CONSTRUCTION SITE ONCE EVERY MONTH AND WITHIN 24 HOURS OF RAINFALL GREATER THAN OR EQUAL TO A HALF OF AN INCH OR MORE. THE OPERATOR SHALL PREPARE A REPORT DOCUMENTING HIS/HER FINDINGS ON THE CONDITIONS OF THE SWMP CONTROLS AND NOTE ANY EROSION PROBLEM AREAS. THE OPERATOR'S REPORT IS TO BE SUBMITTED TO THE PLANNING & DEVELOPMENT DEPARTMENT CIVIL/SITE INSPECTOR FOR REVIEW AND APPROVAL. FACILITIES SHALL BE MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED.

THE OPERATOR SHALL AMEND THIS PLAN AS NECESSARY DURING THE COURSE OF CONSTRUCTION TO RESOLVE ANY PROBLEM AREAS, WHICH BECOME EVIDENT DURING THE CONSTRUCTION AND/OR DURING RAINFALLS.

THE PERMITTEE SHALL FILE A NOTICE OF TERMINATION (N.O.T.) AFTER COMPLETION OF CONSTRUCTION AND PLACEMENT OF FINAL LANDSCAPE MATERIALS. THE N.O.T. IS TO BE SUBMITTED TO THE PLANNING & DEVELOPMENT DEPARTMENT CIVIL/SITE INSPECTOR TO FINAL THE SWMP PERMIT.

THE PERMITTEE SHALL SAVE ALL RECORDS, INCLUDING THE N.O.I., SWMP, N.O.T., AND INSPECTION REPORTS, ON FILE FOR A MINIMUM OF THREE YEARS FROM THE DATE OF FILING THE N.O.T.

THE IMPLEMENTATION OF THESE PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED AND THE N.O.T. IS SUBMITTED TO THE PLANNING & DEVELOPMENT DEPARTMENT CIVIL/SITE INSPECTOR.

THE FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO INSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS, AND MUST BE INSTALLED AND IN OPERATION PRIOR TO ANY GRADING OR LAND CLEARING. WHEREVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL.

PLAN APPROVAL IS VALID FOR 180 DAYS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.

THE OPERATOR SHALL REMOVE AND DISPOSE OF ALL TEMPORARY CONSTRUCTION CONTROLS AND BEST MANAGEMENT PRACTICES.

LEGAL DESCRIPTION

A PORTION OF THE NORTH HALF OF SECTIONS 7,8,9, AND 10 TOGETHER WITH A PORTION OF THE SOUTH HALF OF SECTIONS 3,4,5 AND 6, TOWNSHIP 4 NORTH, RANGE 2 EAST, OF THE GILA AND SALT RIVER MERIDIAN.

CERTIFICATION

I CERTIFY THAT THE REFERENCED PLANS COMPLY WITH ALL APPLICABLE CITY ORDINANCES AND STANDARDS, INCLUDING FEDERAL, STATE AND COUNTY REQUIREMENTS AND REGULATIONS. IN ADDITION, I CERTIFY THAT THIS CHECKLIST HAS BEEN COMPLETED ENSURING ALL ITEMS LISTED ARE PROPERLY ADDRESSED. I UNDERSTAND THAT IF I FAIL TO ADDRESS ALL APPLICABLE ITEMS IN THIS CHECKLIST, THE PLANS MAY BE IMMEDIATELY RETURNED TO ME WITHOUT ANY FORMAL REVIEW BEING PERFORMED.

ENGINEER'S NAME: _____

ENGINEER'S SIGNATURE: _____ DATE: _____

ENGINEER
WILSON & COMPANY
TODD CENCIMINO
410 NORTH 44TH STREET, SUITE 460
PHOENIX, AZ 85008
(602) 283-2732
TODD.CENCIMINO@WILSONCO.COM

SWMP INDEX:

1. SWMP COVER SHEET
2. SWMP PLAN
3. SWMP DETAILS

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

SWMP - COVER SHEET

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. SWMP-1.01
DATE: 05/24	DATE: 05/24	DATE: 05/24	
			207 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

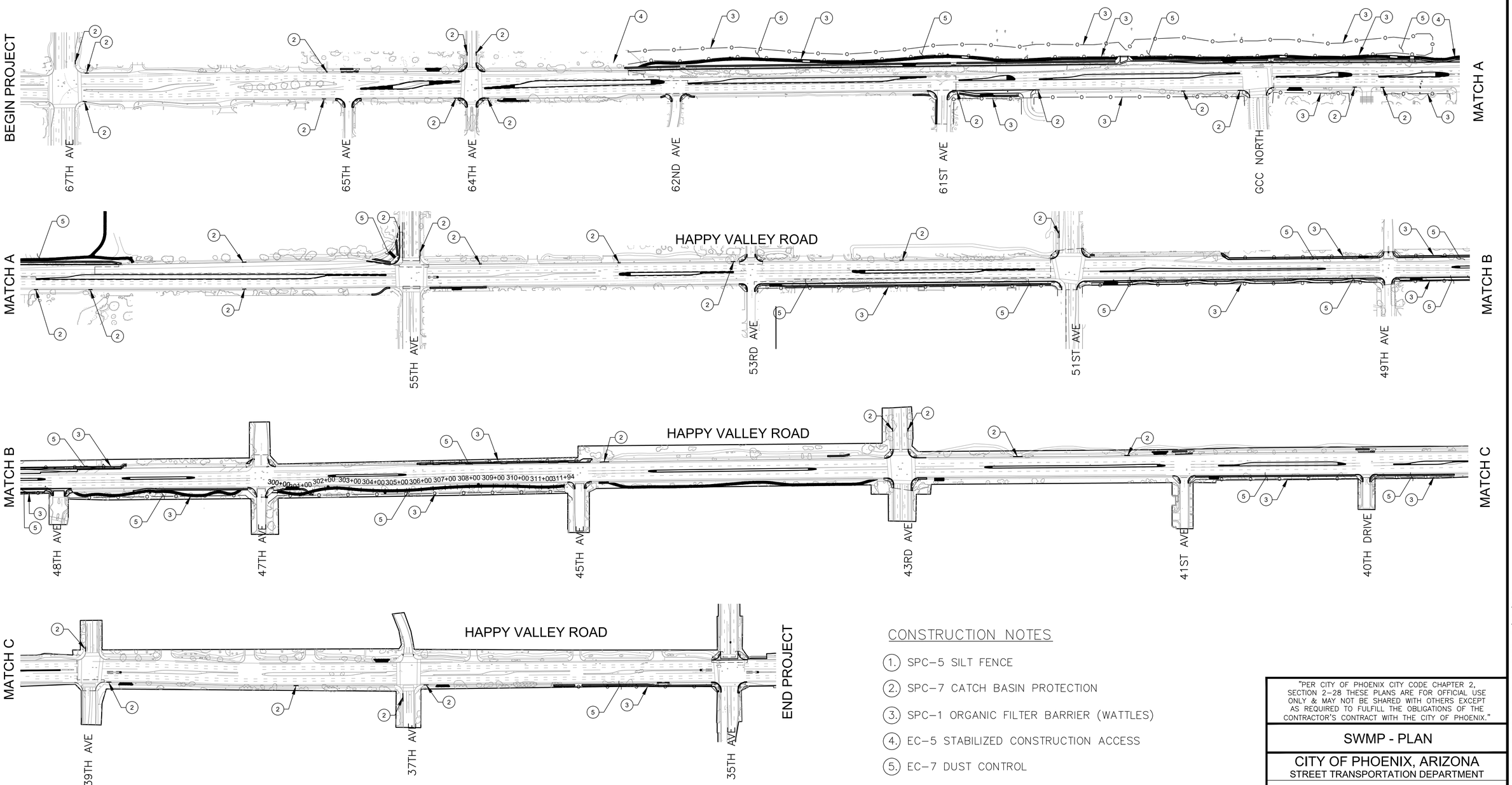
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437SWMP-01.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



CONSTRUCTION NOTES

1. SPC-5 SILT FENCE
2. SPC-7 CATCH BASIN PROTECTION
3. SPC-1 ORGANIC FILTER BARRIER (WATTLES)
4. EC-5 STABILIZED CONSTRUCTION ACCESS
5. EC-7 DUST CONTROL

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	208	368	

05/2024 DATE:

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

36634 TODD J. CENCIMINO — ARIZONA U.S.A.

WILSON & COMPANY

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

SWMP - PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

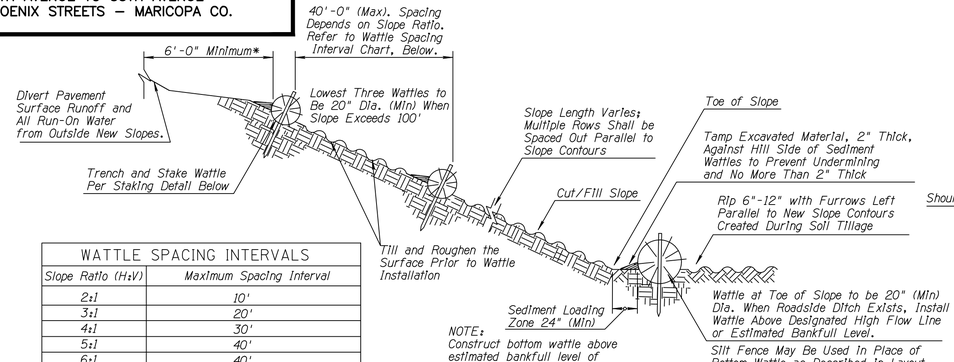
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. SWMP-1.02
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 200' HORIZONTAL			208 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

SHEET NAME: ST85100437SWMP-02.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

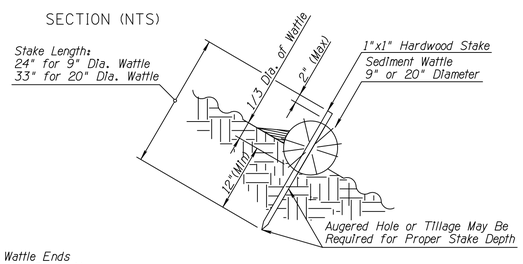


NOTE:
Construct bottom wattle above estimated bankfull level of roadside ditch, when the ditch is installed at toe of new slope.

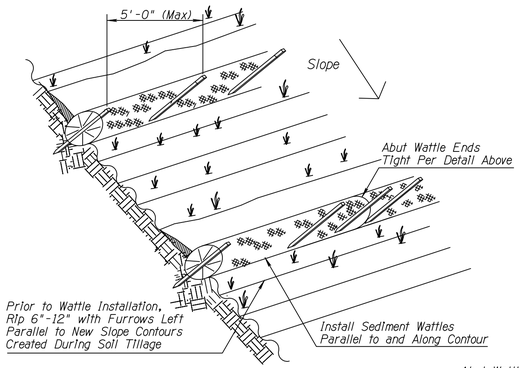
WATTLE SPACING INTERVALS	
Slope Ratio (H:V)	*Maximum Spacing Interval*
2:1	10'
3:1	20'
4:1	30'
5:1	40'
6:1	40'

* Notes:
1) Top Row Shall Not be Placed within 6'-0" of Edge of Pavement and 9'-0" from Outside Surface of Barrier.
2) For erosive soils, place rows of wattles closer together.
3) For soils with low erosive potential, place rows of wattles further apart.

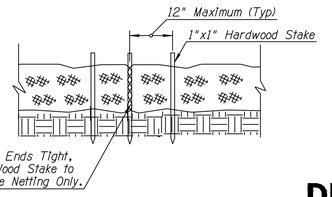
SECTION (NTS)



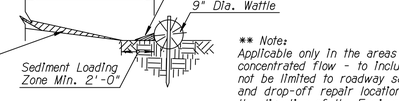
SEDIMENT WATTLE STAKING DETAIL (NTS)



SEDIMENT WATTLE LAYOUT (NTS)



SEDIMENT WATTLE

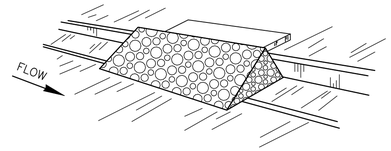


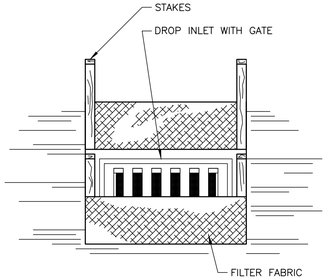
NEW SHOULDER BUILDUP **
PROTECTION SECTION (NTS)

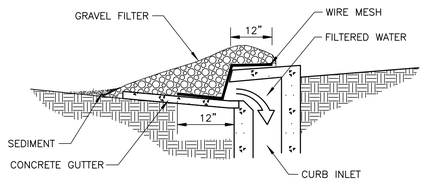
** Note:
Applicable only in the areas of concentrated flow - to include but not be limited to roadway sag spots and drop-off repair locations as per the direction of the Engineer.

NOTES:

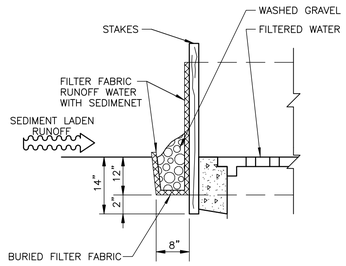
1. Install Sediment Wattles as slopes are constructed to grade or as directed by the Engineer. Select, install and maintain in conformance with manufacturers' specifications to meet site conditions for slope protection and in accordance with good engineering practices. No Sediment Wattles shall be installed in urban freeway medians, nor where cable barrier systems are employed.
2. Sediment Wattles shall be in continuous contact with trench bottom and sides. Do not overlap wattle ends on top of each other. A 20" Dia. wattle may be made from 2-3 rolled excelsior or straw blankets.
3. Butt adjoining wattles tightly against each other. Drive the first end stake of the second wattle at an angle toward the first wattle to help abut them tightly.
4. Repair any rills or gullies promptly. Make field adjustments and corrections of Wattle CM/BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.
5. Construction of cut slopes 2:1 and steeper in soil and rock materials that can be ripped shall be constructed, whenever possible, by Minibenching. Refer to Slope Minibenching CM/BMP Detail.
6. Loosening surface soil is not required where Minibenches are used. For seeded areas, tillage shall be performed to form minor ridges and furrows parallel to new slope contours and as specified in Section 805 of the Specifications and project special provisions.
7. Divert and direct run-on water from outside of the slopes to the spillways and/or rock riprap/rock mulch. Diversion dikes and/or ditches are necessary on natural undisturbed slopes beyond the top limits of new slopes to divert run-on water.
8. Installation and maintenance of Sediment Wattle CMs/BMPs shall not negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities.
9. Install and maintain Sediment Wattle CMs/BMPs to carry the stormwater of at least 2-year, 24-hour events.
10. The Sediment Wattle CM/BMP's pay/bid item shall include all materials used for this CM/BMP: all ground preparation, furnishing, installing, maintenance, final removal, and disposal of this temporary CM/BMP, as well as returning the area to an acceptable condition as approved by the Engineer.
11. Refer to Specification Section 810-2.06(C) for Sediment Wattle material specifications.
12. Make field adjustments and corrections to ensure NO sensitive biological resources (native species / habitats) will be adversely impacted.





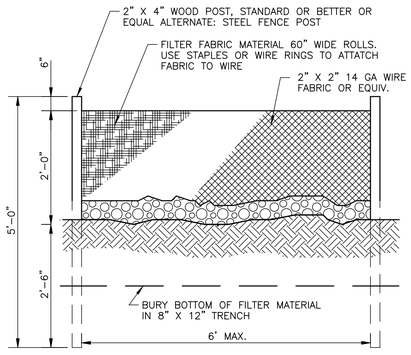


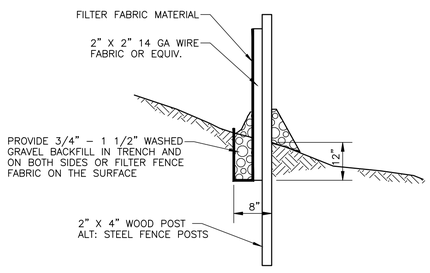
CURB INLET PROTECTION SPC-7



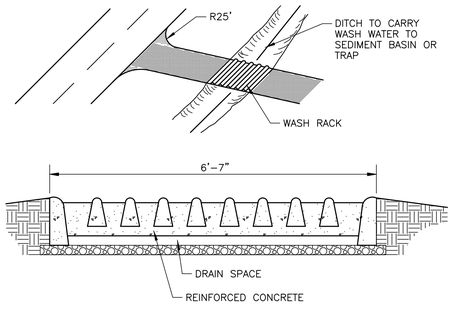
FILTER FABRIC FENCE DROP INLET FILTER SPC-7

DETAIL SPC-1

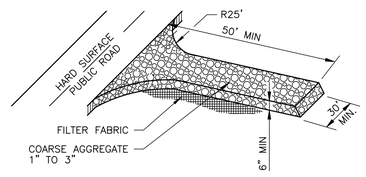




SILT FENCE SPC-5



WASH RACK EC-5



STABILIZED CONSTRUCTION ENTRANCE EC-5

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SWMP - DETAILS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: ASF	CK: TJC	DWG. NO. SWMP-1.03
DATE: 05/24	DATE: 05/24	DATE: 05/24	
N.T.S.			209 OF 364

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	209	368	

05/2024 DATE:

WILSON & COMPANY

DRAWN: RJN | DESIGN: ASF | CHECKED: TJC

REGISTERED PROFESSIONAL ENGINEER
36634
TODD J. CENCIMINO
CERTIFICATE NOT VALID UNLESS SIGNED AND DATED
ARIZONA U.S.A.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

SHEET NAME: ST85100437SWMP-03.DWG, PLOT DATE: 5/29/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

LANDSCAPE LEGEND

	Botanical Name / Common Name	Container Size / Min Caliper	Qty	Estimated Mature Size	Remarks
	TREES				
	Acacia aneura Mulga	24" Box/1.0"	45	20' H x 12' W	Stake, Std Trunk
	Acacia willardiana Palo Blanco	24" Box/1.0"	30	20' H x 15' W	Stake, Std Trunk
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	24" Box/1.0"	50	18' H x 18' W	Stake, Std Trunk
	Lysiloma thornberi Fern of the Desert	15 Gal/0.5"	29	15' H x 15' W	Stake, Std Trunk
	Parkinsonia microphyllum Foothill Palo Verde	24" Box/0.75"	78	20' H x 20' W	Stake, Std Trunk
	Sophora secundiflora Texas Mountain Laurel	24" Box/0.75"	36	12' H x 12' W	
	SHRUBS AND GROUNDCOVERS				
	Asclepias subulata Desert Milkweed	5 gal	18	4'H x 4'W	
	Buddleja marrubiifolia Wooly Butterfly Bush	5 gal	12	5'H x 5'W	
	Calliandra eriophylla Pink Fairy Duster	5 gal	76	3'H x 3'W	
	Dalea greggii Trailing Indigo Bush	1 gal	8	2'H x 6'W	
	Euphorbia antisyphilitica Candelilla	5 gal	584	2'H x 3'W	
	Leucophyllum candidum 'Thunder Cloud'	5 gal	177	3'H x 3'W	
	Muhlenbergia rigens Deer Grass	5 gal	217	5'H x 5'W	
	Ruellia peninsularis Desert Ruellia	5 gal	11	5'H x 5'W	
	Salvia chamaedryoides Chaparral Sage	5 gal	134	2'H x 2'W	
	Tecoma X Sierra Apricot Esperanza	5 gal	208	3'H x 3'W	
	Psilotrophe cooperi Paper Flower	5gal	130	2'H x 2'W	
	ACCENTS				
	Agave palmeri Parry's Agave	5gal	290	3'H x 3'W	
	Agave ocahui Ocahui Century Plant	5gal	258	2'H x 3'W	
	Aloe X Blue Elf Blue Elf	5gal	328	1'W x 2'W	
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	5gal	1,250	2'H x 2'W	
	Hydroseed (Native Mix)	per MAG STD Spec Section 430.7	59,000 Sq. Ft.		
	Inert Materials				
	Decomposed Granite Color: Santa Fe Gold Size: ½" Screened, Depth: 2"	Place at 2" depth per plans	28,842 Sq. Yd.		
	Riprap Color: Santa Fe Gold Size: 3" to 6", Depth 6"	Place at 6" depth per plans	130,605 Sq.Ft.		
	Concrete Header Dtl 6, Sht LP-4.03		26 L.F.		
	Other				
	Root Barrier - See Dtl 2, Dwg LP-4.01		56 L.F.		
	Existing Saguaro To Remain, Protect In Place		3 EA		
	Existing Saguaro, To Be Relocated Per Plans		7 EA		
	Relocated Saguaro, See Dtl 3, Dwg LP-4.02		-		
	Relocated Barrel Cactus		1 EA		
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.		-		

Note:

1. No additional measurement or payment for Root Barrier shall be made, the cost considered included in the cost of the tree bid items.

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	11 EA
BF	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	2 EA
BP	Reduced Pressure Backflow Preventer with Cage - 1"	9 EA
	Remote Control Valve Assembly 1" (Size per Plan)	18 EA
	Remote Control Valve Assembly 1-1/2" (Size per Plan)	2 EA
	Pressure Regulator Assembly-1"	18 EA
	Pressure Regulator Assembly-3/4"	12 EA
	Gate Valve - 2"	1 EA
	Gate Valve - 1 ½"	7 EA
	Gate Valve - ¾"	20 EA
F	Flush Valve Assembly	78 EA
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	1,370 EA
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	11 EA
	Mainline, 2" Sch 40 PVC	85 LF
	Mainline, 3/4" Sch 40 PVC	126 LF
	Sub-Main, 1" SCH 40	7,811 LF
	Sub-Main, 1 ½" SCH 40	2,335 LF
	Drip Laterals, 3/4" SCH 40 PVC	21,846 LF
	Drip Laterals, 1/2" SCH 40 PVC	4,234 LF
4"	Sch 40 PVC Sleeve, 4"	2,229 LF
	Sch 40 PVC Sleeve, 6"	668 LF

D1T — Valve ID (Controller, Valve #, Type)
00.0 — Valve Flow in G.P.M.
1" — Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
CERTIFICATE NO.
27437
STEVEN E. LOHIDE
Date Signed 05/24/24
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	210	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW	DESIGN: CDW/SEL	CHECKED: SEL

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ARIZONA811
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LANDSCAPE/IRRIGATION SUMMARY

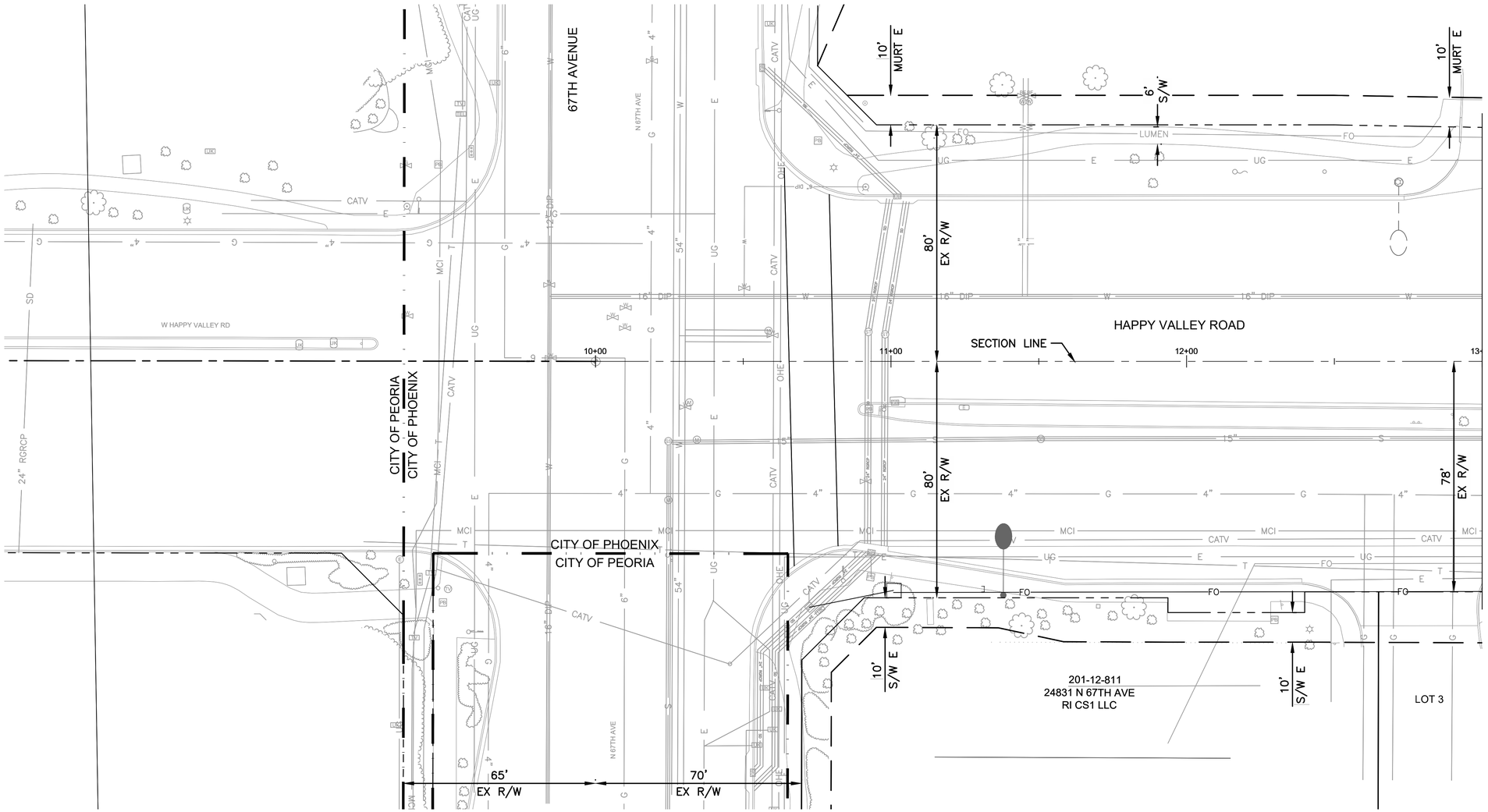
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–1.01
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			210 OF 364

SHEET NAME: ST85100437SUM01.DWG, PLOT DATE: 5/24/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



NO LANDSCAPE WORK THIS SHEET

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	211	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

Botanical Name / Common Name	Qty
TREES	
Acacia aneura Mulga	0
Acacia willardiana Palo Blanco	0
Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
Lysiloma thornberi Fern of the Desert	0
Parkinsonia microphyllum Foothill Palo Verde	0
Sophora secundiflora Texas Mountain Laurel	0
SHRUBS AND GROUNDCOVERS	
Asclepias subulata Desert Milkweed	0
Buddleja marrubiifolia Wooly Butterfly Bush	0
Calliandra eriophylla Pink Fairy Duster	0
Dalea greggii Trailing Indigo Bush	0
Euphorbia antisyphilitica Candelilla	0
Leucophyllum candidum 'Thunder Cloud'	0
Muhlenbergia rigens Deer Grass	0
Ruellia peninsularis Desert Ruellia	0
Salvia chamaedryoides Chaparral Sage	0
Tecoma X Sierra Apricot Esperanza	0
Psilotrophe cooperi Paper Flower	0
ACCENTS	
Agave palmeri Parry's Agave	0
Agave ocahui Ocahui Century Plant	0
Aloe X Blue Elf Blue Elf	0
Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	0
Inert Materials	
Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	0 Sq Yd
Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Ft
Concrete Header	
Other	0 L.F.
Root Barrier - See Dtl 2, Dwg LP-4.01	
Existing Saguaro To Remain, Protect In Place	
Existing Saguaro, To Be Relocated Per Plans	
Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES: CDW/SEL	CK: SEL	DWG. NO. LP–2.01
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			211 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

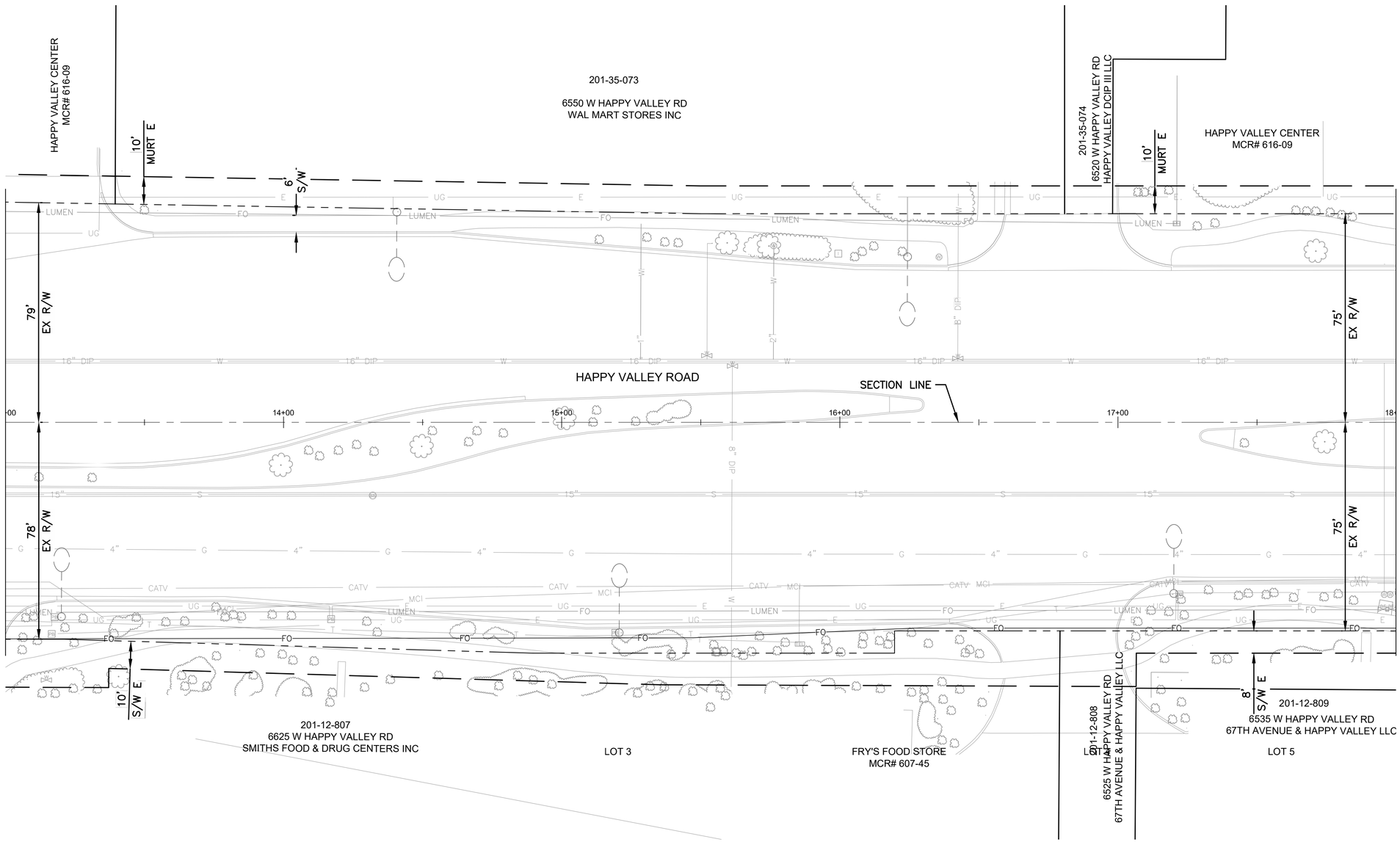
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437LP01.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



NO LANDSCAPE WORK THIS SHEET

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	212	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE
CERTIFICATE NO.
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
Date Signed 05/23/2024

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	0
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	0
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	0
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	0
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	0 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Ft
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place Existing Saguaro, To Be Relocated Per Plans Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

DR: JP | DES:CDW/SEL | CK: SEL
DATE: 05/24 | DATE: 05/24 | DATE: 05/24

DWG. NO. **LP–2.02**

SCALE: 1" = 20' HORIZONTAL

212 OF 364

SHEET NAME: ST85100437LP02.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

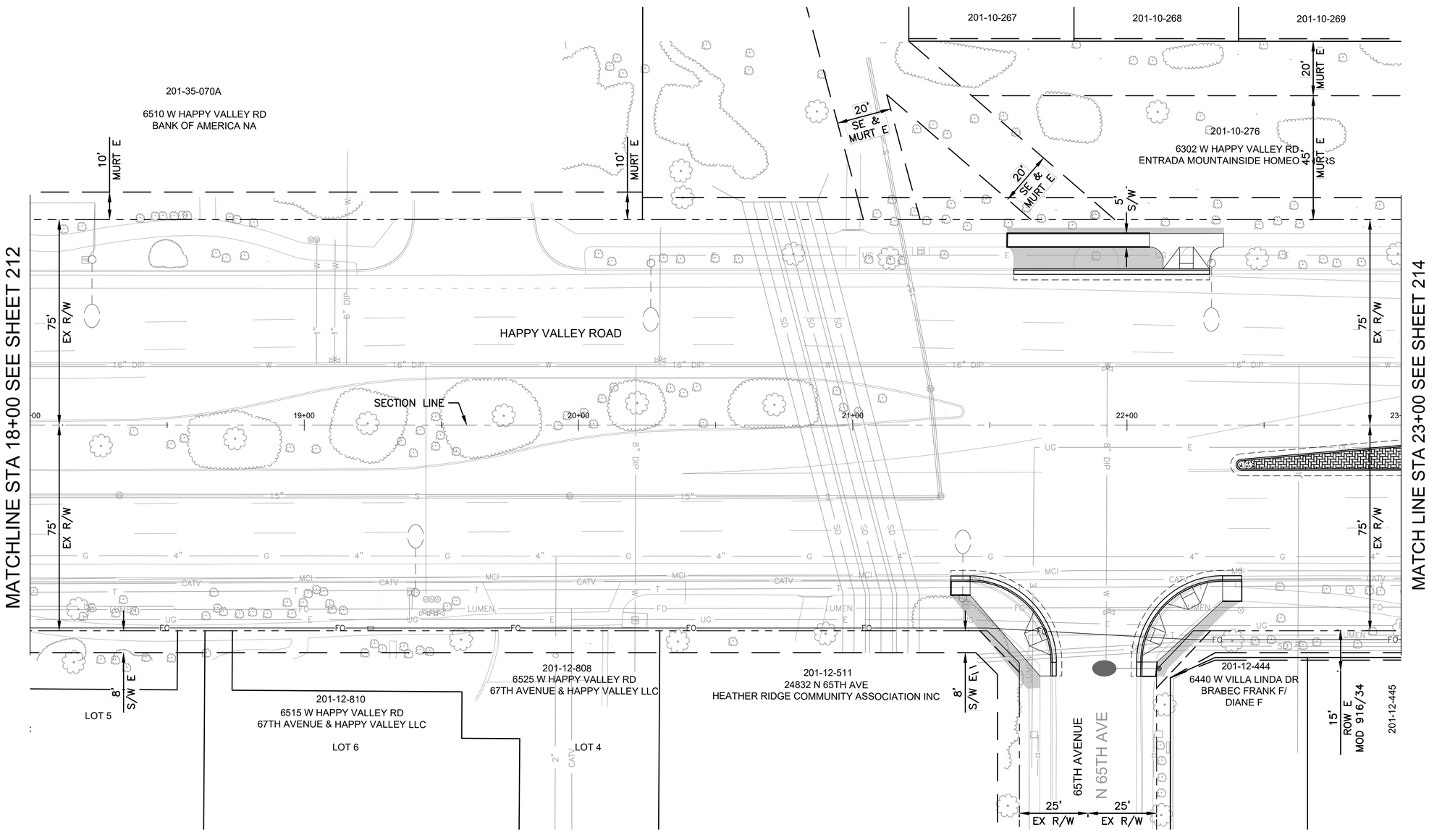
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



NO LANDSCAPE WORK THIS SHEET

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	213	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

Botanical Name / Common Name	Qty
TREES	
Acacia aneura Mulga	
Acacia willardiana Palo Blanco	0
Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
Lysiloma thornberi Fern of the Desert	0
Parkinsonia microphyllum Foothill Palo Verde	0
Sophora secundiflora Texas Mountain Laurel	0
SHRUBS AND GROUNDCOVERS	
Asclepias subulata Desert Milkweed	0
Buddleja marrubiifolia Wooly Butterfly Bush	0
Calliandra eriophylla Pink Fairy Duster	0
Dalea greggii Trailing Indigo Bush	0
Euphorbia antisyphilitica Candelilla	0
Leucophyllum candidum 'Thunder Cloud'	0
Muhlenbergia rigens Deer Grass	0
Ruellia peninsularis Desert Ruellia	0
Salvia chamaedryoides Chaparral Sage	0
Tecoma X Sierra Apricot Esperanza	0
Psilotrophe cooperi Paper Flower	0
ACCENTS	
Agave palmeri Parry's Agave	0
Agave ocahui Ocahui Century Plant	0
Aloe X Blue Elf Blue Elf	0
Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	0
Inert Materials	
Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	111 Sq Yd
Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Ft
Concrete Header	
Other	0 L.F.
Root Barrier - See Dtl 2, Dwg LP-4.01	
Existing Saguaro To Remain, Protect In Place	
Existing Saguaro, To Be Relocated Per Plans	
Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP | DES:CDW/SEL | CK: SEL
DATE: 05/24 | DATE: 05/24 | DATE: 05/24

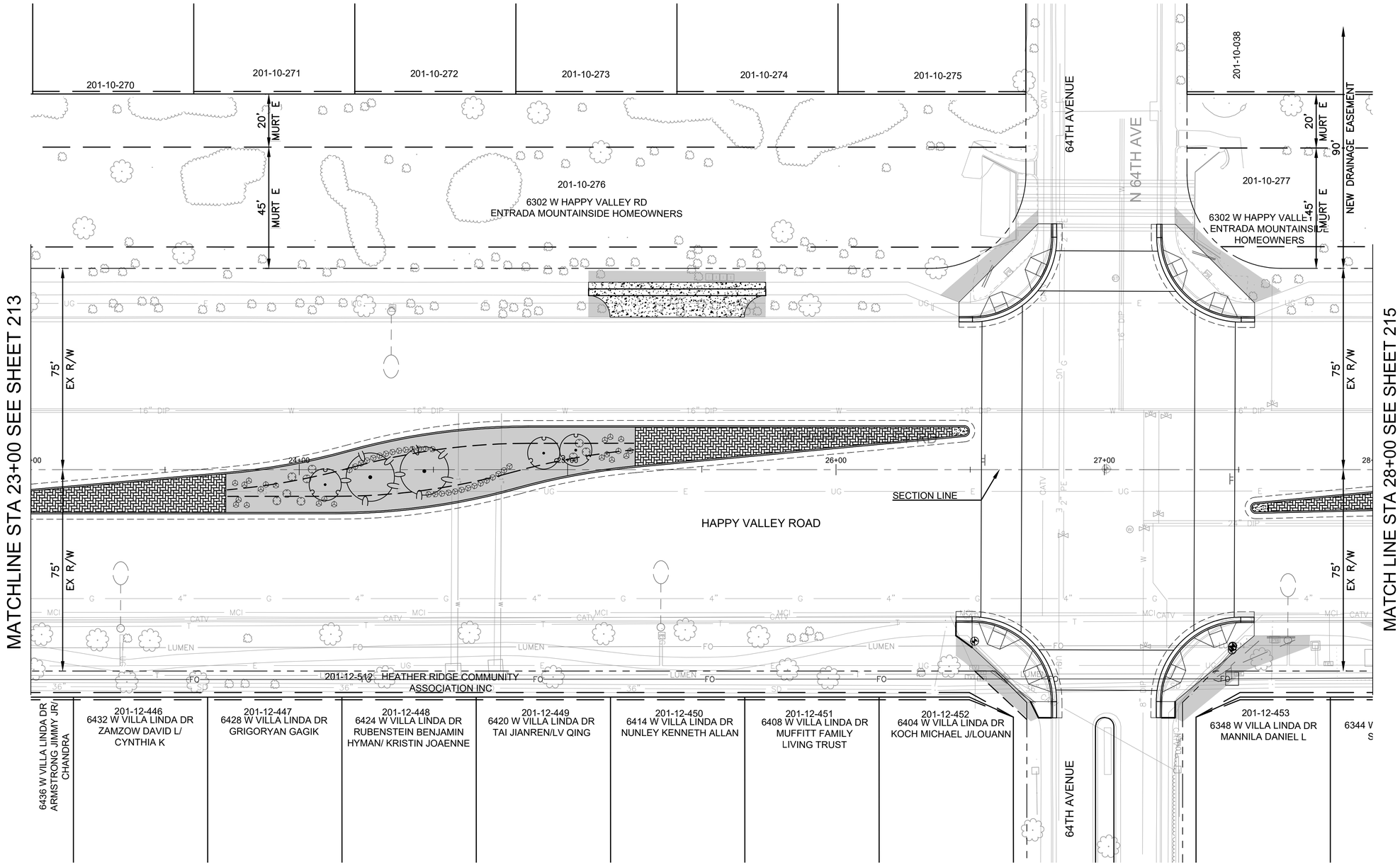
SCALE: 1" = 20' HORIZONTAL

DWG. NO. LP-2.03

213 OF 364

SHEET NAME: ST85100437LP03.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	214	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
CERTIFICATE NO.
27437
STEVEN E. LOHIDE
Date Signed 05/23/2024

LANDSCAPE LEGEND

Botanical Name / Common Name	Qty
TREES	
Acacia aneura Mulga	0
Acacia willardiana Palo Blanco	0
Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	2
Lysiloma thornberi Fern of the Desert	0
Parkinsonia microphyllum Foothill Palo Verde	0
Sophora secundiflora Texas Mountain Laurel	3
SHRUBS AND GROUNDCOVERS	
Asclepias subulata Desert Milkweed	0
Buddleja marrubiifolia Wooly Butterfly Bush	0
Calliandra eriophylla Pink Fairy Duster	0
Dalea greggii Trailing Indigo Bush	0
Euphorbia antisyphilitica Candelilla	0
Leucophyllum candidum 'Thunder Cloud'	0
Muhlenbergia rigens Deer Grass	0
Ruellia peninsularis Desert Ruellia	0
Salvia chamaedryoides Chaparral Sage	0
Tecoma X Sierra Apricot Esperanza	0
Psilotrophe cooperi Paper Flower	0
ACCENTS	
Agave palmeri Parry's Agave	0
Agave ocahui Ocahui Century Plant	9
Aloe X Blue Elf Blue Elf	0
Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	49
Inert Materials	
Decomposed Granite Color: Santa Fe Gold Size: ⅜" Screened Depth: 2"	531 Sq Yd
Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Ft
Concrete Header	
Other	0 L.F.
Root Barrier - See Dtl 2, Dwg LP-4.01	
Existing Saguaro To Remain, Protect In Place Existing Saguaro, To Be Relocated Per Plans Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

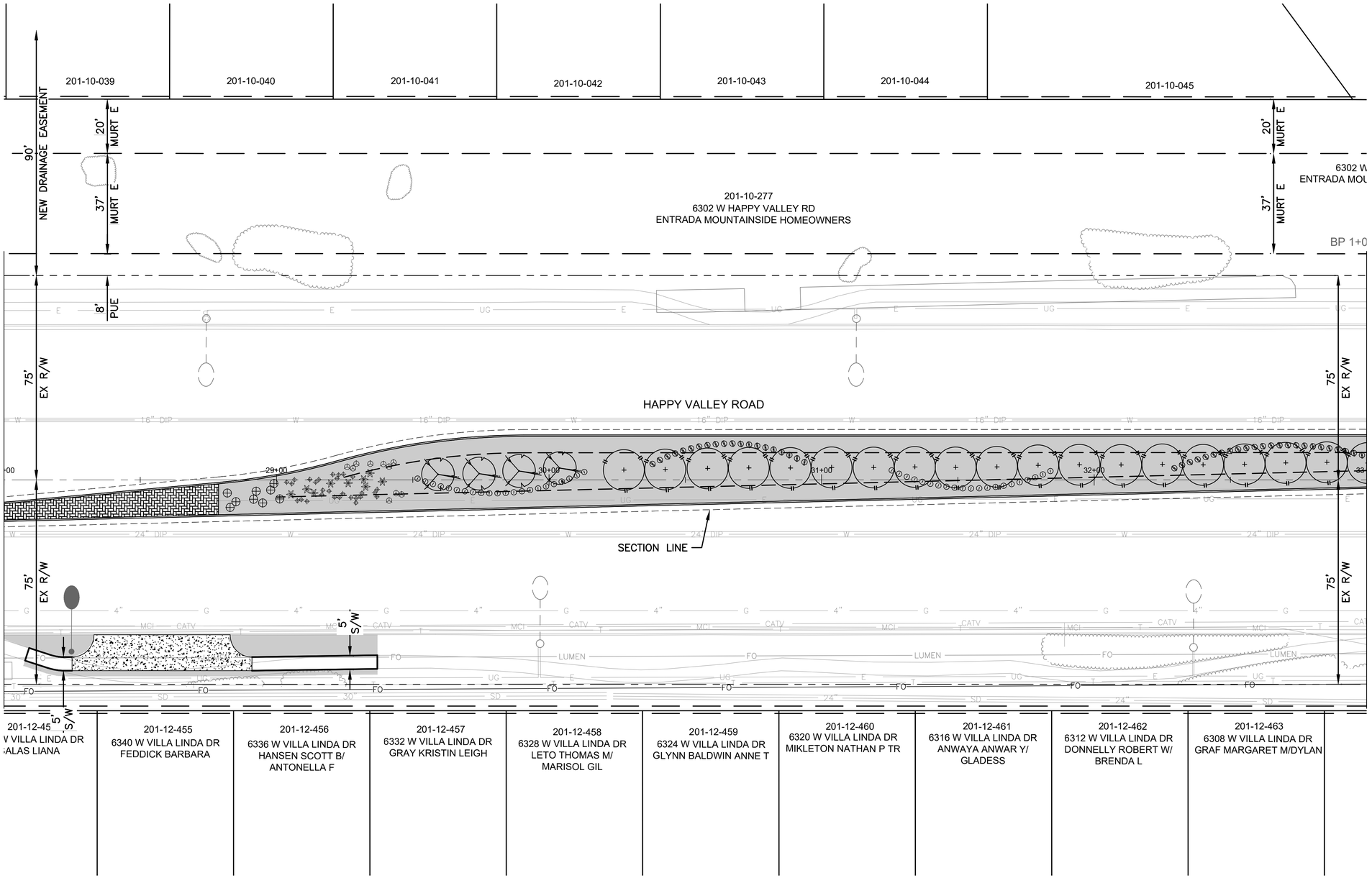
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.04
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			214 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437LP04.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	215	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

CERTIFICATE NO. 27437 STEVEN E. LOHIDE — Date Signed 05/24/24

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	4
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	18
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	9
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	44
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	43
	ACCENTS	
	Agave palmeri Parry's Agave	9
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	28
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	10
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	1,112 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Ft
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP | DES:CDW/SELICK: SEL
DATE: 05/24 | DATE: 05/24 | DATE: 05/24

SCALE: 1" = 20' HORIZONTAL

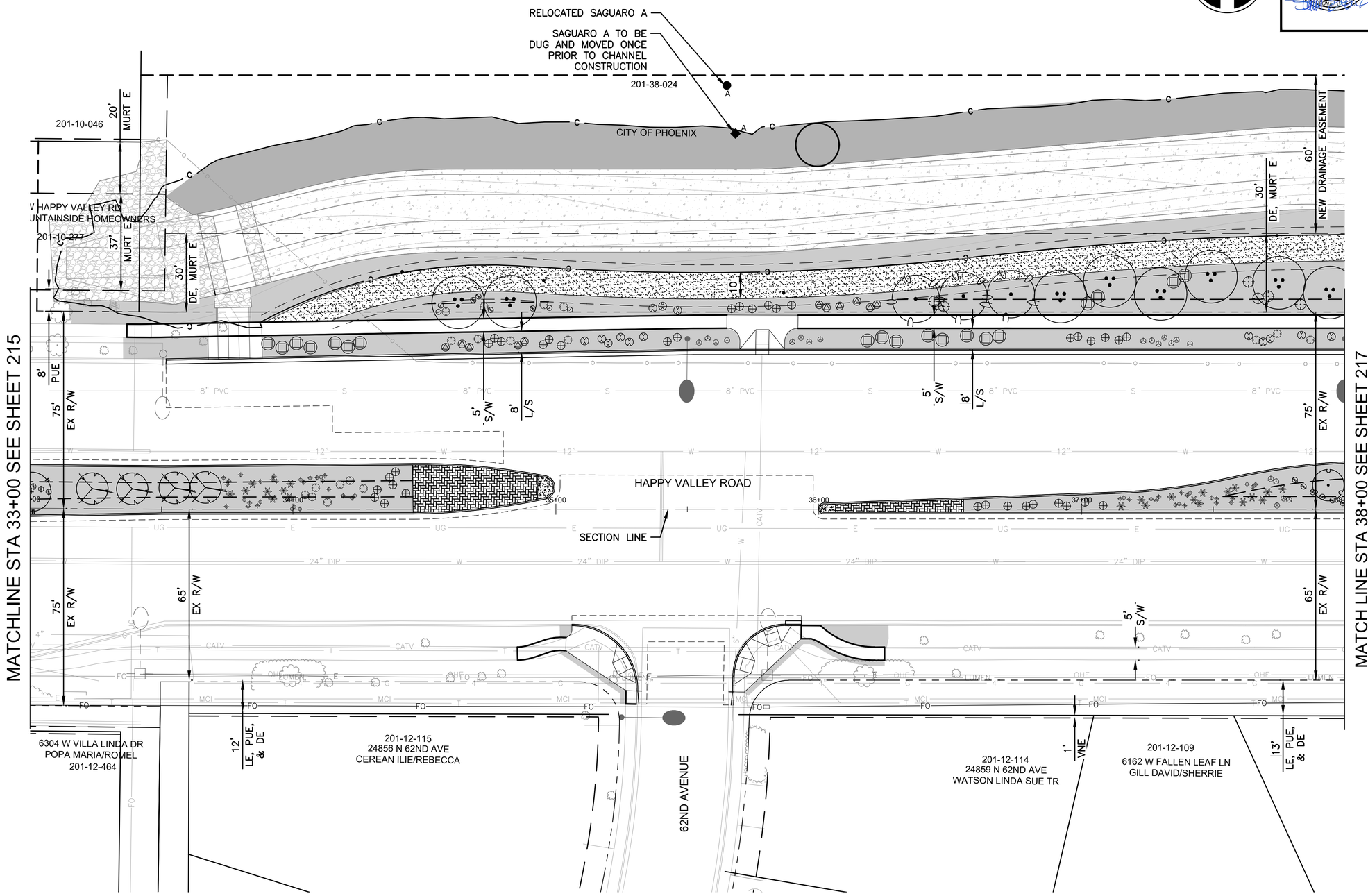
DWG. NO. LP-2.05

215 OF 364

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ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437LP05.DWG, PLOT DATE: 5/24/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	216	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	4
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	3
	Lysiloma thornberi Fern of the Desert	1
	Parkinsonia microphyllum Foothill Palo Verde	8
	Sophora secundiflora Texas Mountain Laurel	1
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	6
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	11
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	36
	Leucophyllum candidum 'Thunder Cloud'	14
	Muhlenbergia rigens Deer Grass	20
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	13
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	4
	ACCENTS	
	Agave palmeri Parry's Agave	22
	Agave ocahui Ocahui Century Plant	18
	Aloe X Blue Elf Blue Elf	48
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	20
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	1,791 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	7,446 Sq Ft
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

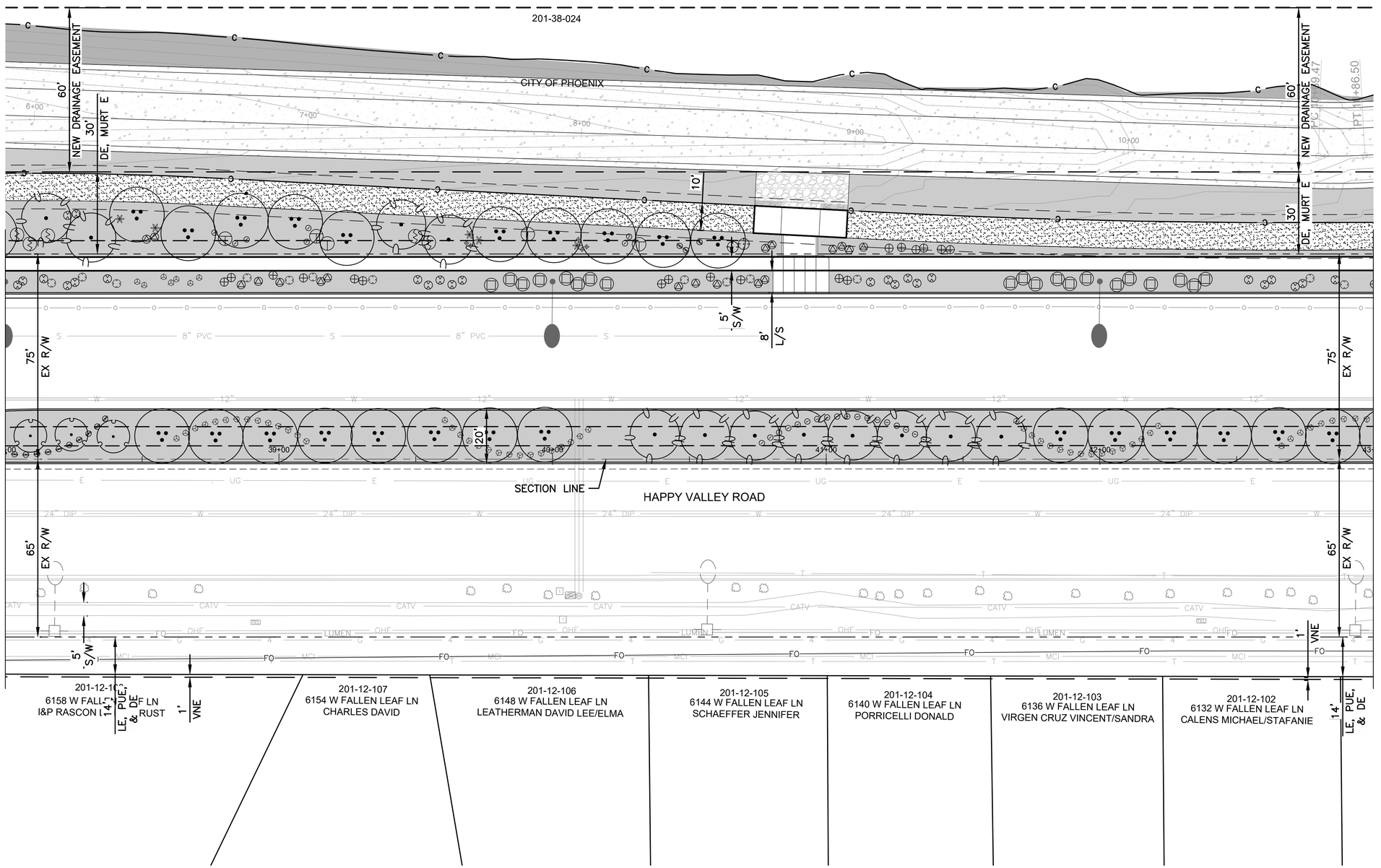
DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-2.06
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			216 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437LP06.DWG, PLOT DATE: 5/24/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	217	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

Botanical Name / Common Name	Qty
TREES	
Acacia aneura Mulga	0
Acacia willardiana Palo Blanco	0
Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	13
Lysiloma thornberi Fern of the Desert	0
Parkinsonia microphyllum Foothill Palo Verde	24
Sophora secundiflora Texas Mountain Laurel	3
SHRUBS AND GROUNDCOVERS	
Asclepias subulata Desert Milkweed	2
Buddleja marrubiifolia Wooly Butterfly Bush	5
Calliandra eriophylla Pink Fairy Duster	18
Dalea greggii Trailing Indigo Bush	0
Euphorbia antisyphilitica Candelilla	19
Leucophyllum candidum 'Thunder Cloud'	25
Muhlenbergia rigens Deer Grass	20
Ruellia peninsularis Desert Ruellia	5
Salvia chamaedryoides Chaparral Sage	13
Tecoma X Sierra Apricot Esperanza	0
Psilotrophe cooperi Paper Flower	25
ACCENTS	
Agave palmeri Parry's Agave	5
Agave ocahui Ocahui Century Plant	13
Aloe X Blue Elf Blue Elf	5
Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	62
Inert Materials	
Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	2,682 Sq Yd
Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	3,036 Sq Ft
Concrete Header	
Other	0 L.F.
Root Barrier - See Dtl 2, Dwg LP-4.01	
Existing Saguaro To Remain, Protect In Place	
Existing Saguaro, To Be Relocated Per Plans	
Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-2.07
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			217 OF 364

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437LP07.DWG, PLOT DATE: 5/23/2024

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Call 811 or click Arizona811.com

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	218	368	

05/2024 DATE:

AZTEC

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

REVISION BY CITY OF PHOENIX

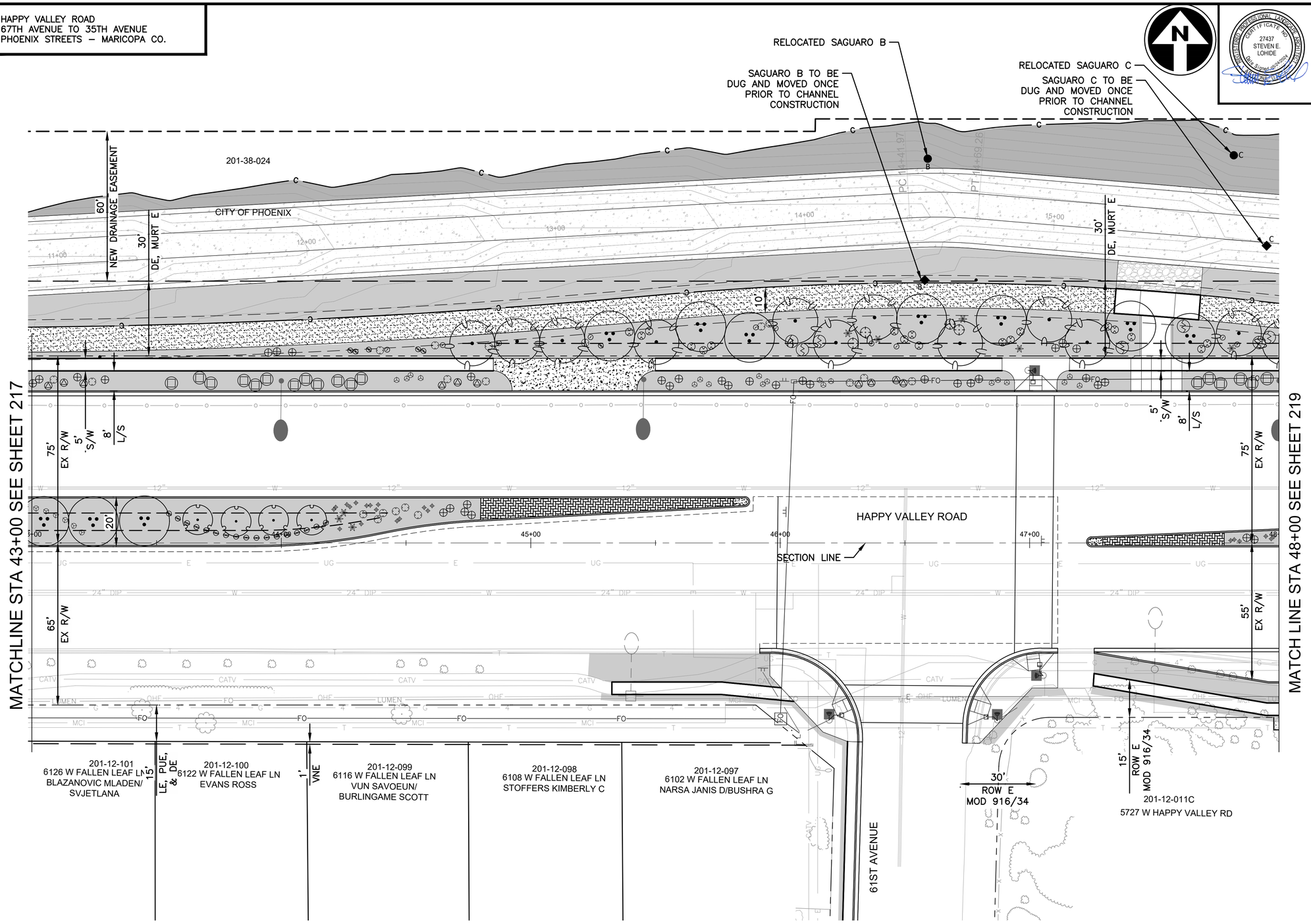
NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE



LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	11
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	10
	Sophora secundiflora Texas Mountain Laurel	4
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	4
	Buddleja marrubiifolia Wooly Butterfly Bush	7
	Calliandra eriophylla Pink Fairy Duster	10
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	33
	Leucophyllum candidum 'Thunder Cloud'	18
	Muhlenbergia rigens Deer Grass	18
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	23
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	10
	ACCENTS	
	Agave palmeri Parry's Agave	8
	Agave ocahui Ocahui Century Plant	19
	Aloe X Blue Elf Blue Elf	22
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	25
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	2,378 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	6,496 Sq Ft
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

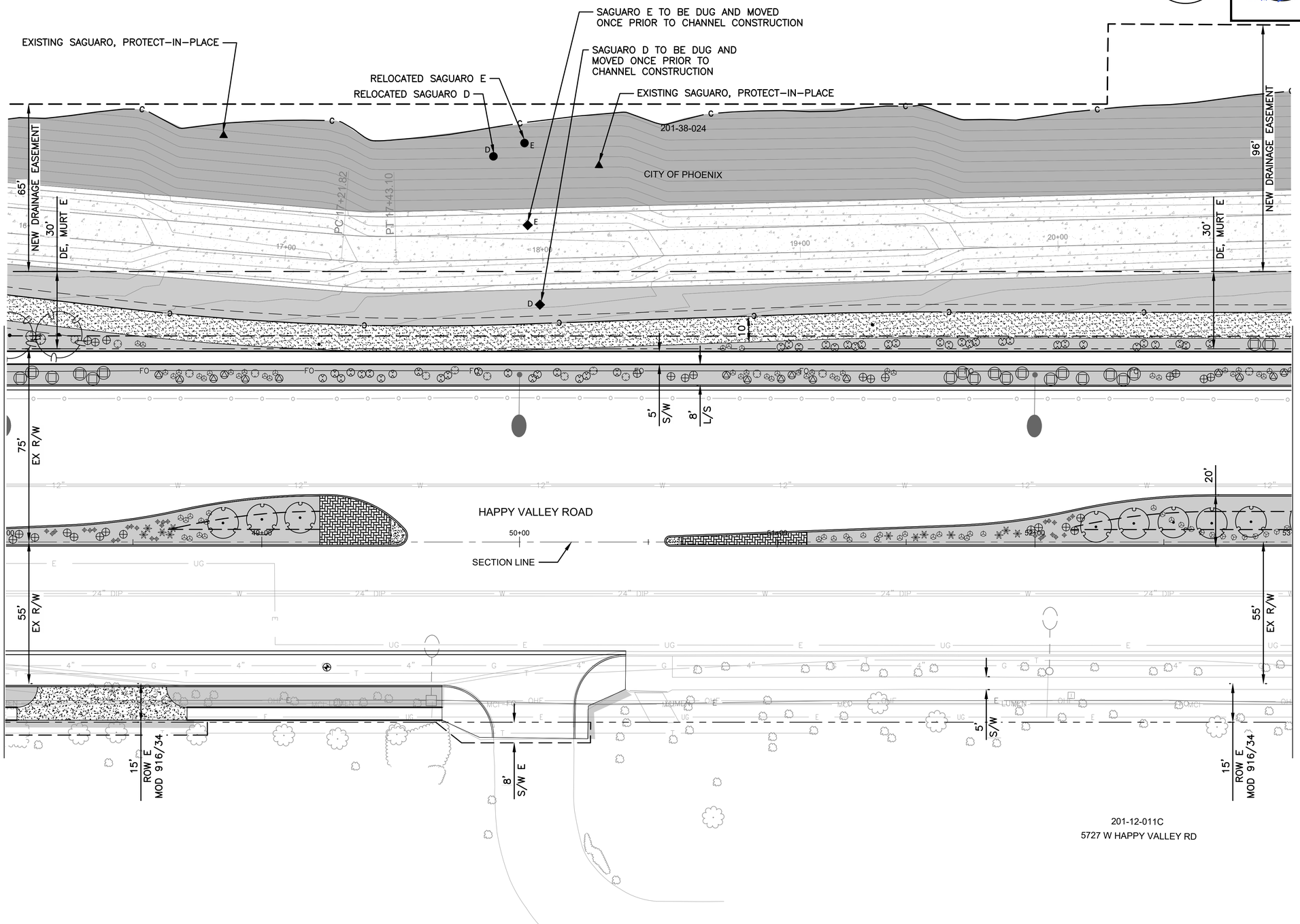
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.08
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			218 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437LP08.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	219	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	2
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	8
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	2
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	16
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	27
	Leucophyllum candidum 'Thunder Cloud'	45
	Muhlenbergia rigens Deer Grass	20
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	12
	Agave ocahui Ocahui Century Plant	13
	Aloe X Blue Elf Blue Elf	28
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	80
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	1,968 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	16,297 Sq Ft
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.09
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			219 OF 364

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

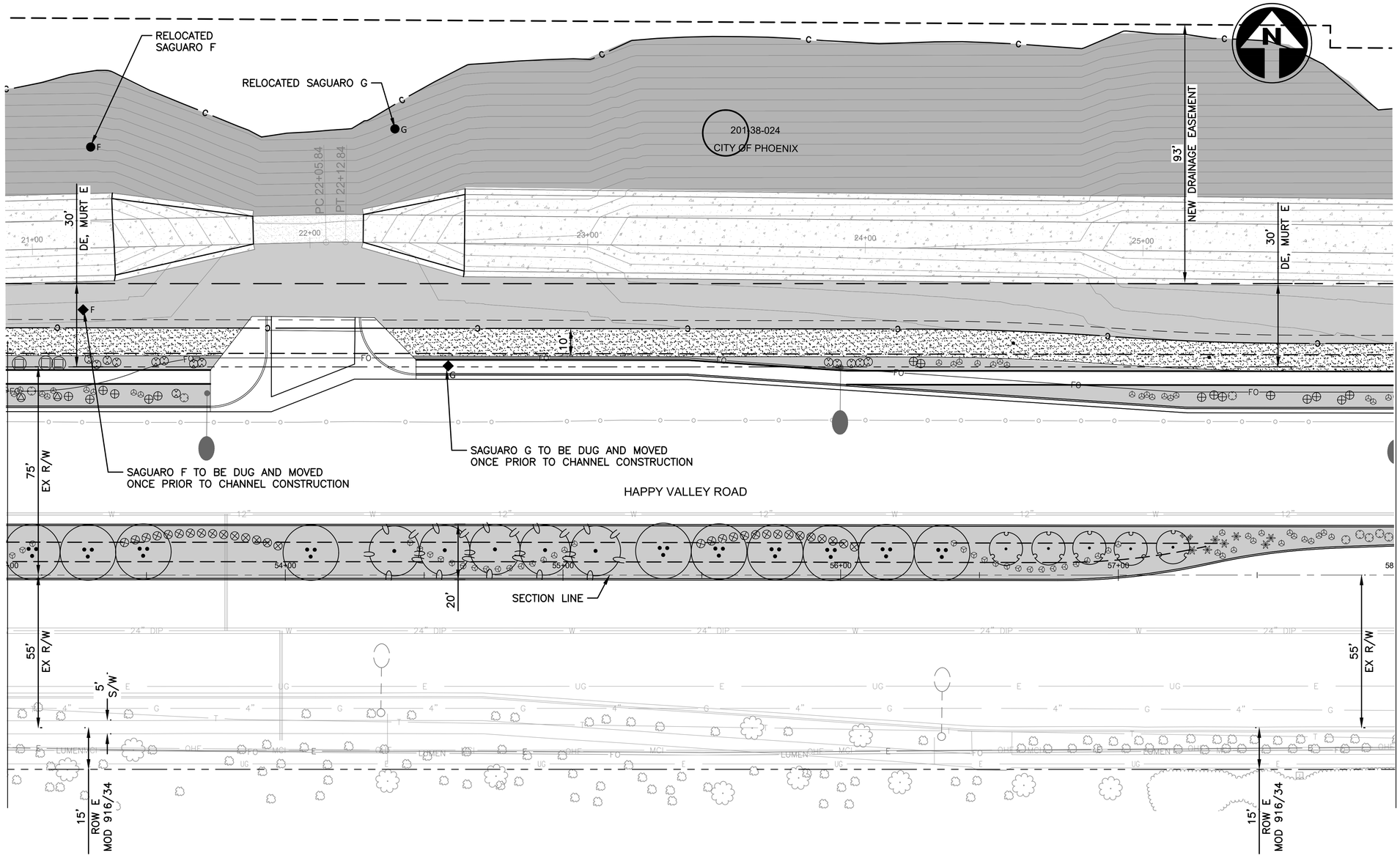
REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437LP09.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



MATCHLINE STA 53+00 SEE SHEET 219

MATCH LINE STA 58+00 SEE SHEET 221

201-12-011C
5727 W HAPPY VALLEY RD

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
CERTIFICATE NO.
27437
STEVEN E. LOHIDE
Date Signed 05/24/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	220	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

Botanical Name / Common Name	Qty
TREES	
Acacia aneura Mulga	0
Acacia willardiana Palo Blanco	0
Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	5
Lysiloma thornberi Fern of the Desert	0
Parkinsonia microphyllum Foothill Palo Verde	10
Sophora secundiflora Texas Mountain Laurel	5
SHRUBS AND GROUNDCOVERS	
Asclepias subulata Desert Milkweed	0
Buddleja marrubiifolia Wooly Butterfly Bush	0
Calliandra eriophylla Pink Fairy Duster	2
Dalea greggii Trailing Indigo Bush	0
Euphorbia antisyphilitica Candelilla	46
Leucophyllum candidum 'Thunder Cloud'	14
Muhlenbergia rigens Deer Grass	3
Ruellia peninsularis Desert Ruellia	0
Salvia chamaedryoides Chaparral Sage	0
Tecoma X Sierra Apricot Esperanza	0
Psilotrophe cooperi Paper Flower	0
ACCENTS	
Agave palmeri Parry's Agave	7
Agave ocahui Ocahui Century Plant	8
Aloe X Blue Elf Blue Elf	3
Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	76
Inert Materials	
Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	2,388 Sq Yd
Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	23,490 Sq Ft
Concrete Header	
Other	0 L.F.
Root Barrier - See Dtl 2, Dwg LP-4.01	
Existing Saguaro To Remain, Protect In Place	
Existing Saguaro, To Be Relocated Per Plans	
Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

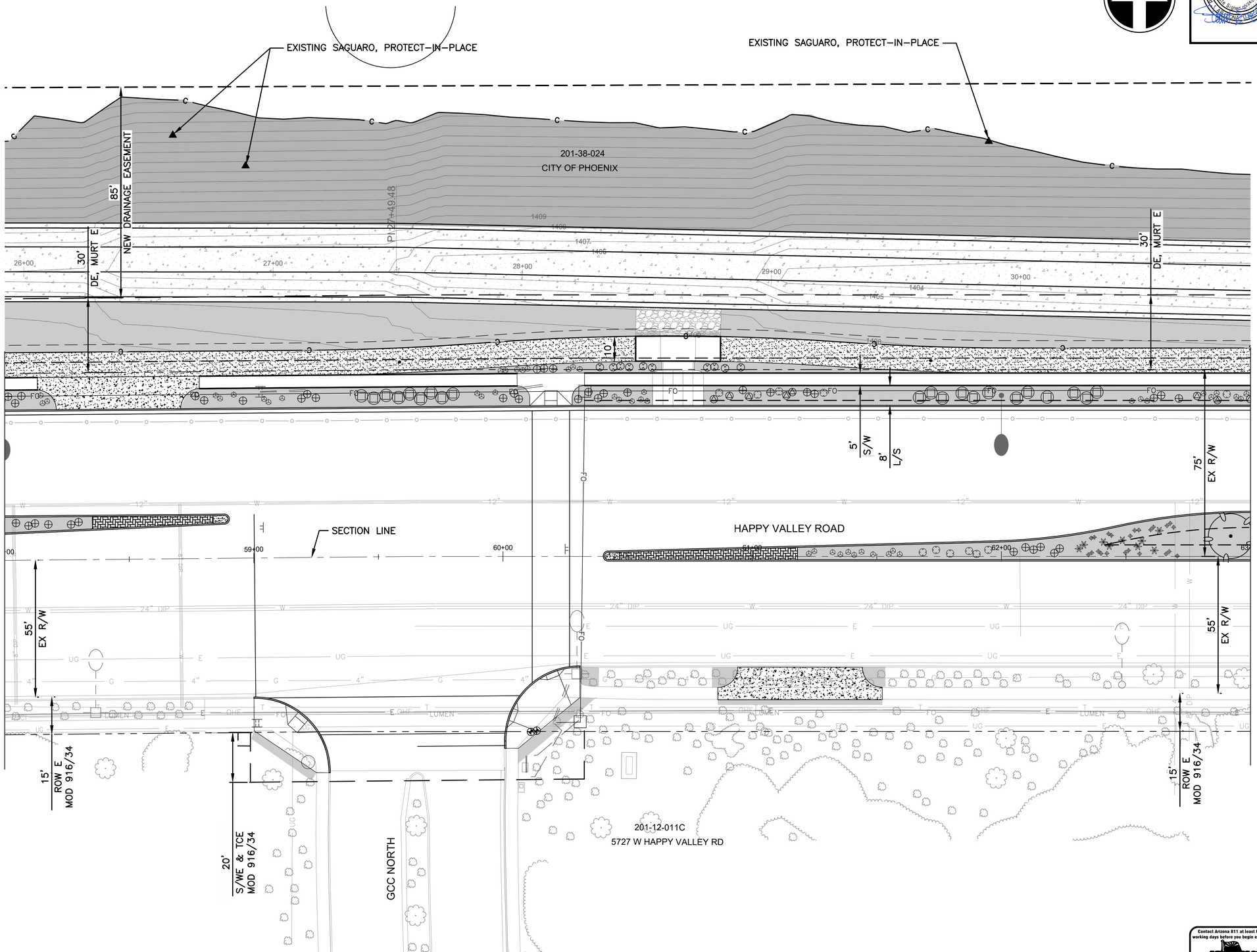
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-2.10
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			220 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437LP10.DWG, PLOT DATE: 5/24/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	221	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	2
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	8
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	39
	Leucophyllum candidum 'Thunder Cloud'	10
	Muhlenbergia rigens Deer Grass	21
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	9
	Agave ocahui Ocahui Century Plant	11
	Aloe X Blue Elf Blue Elf	23
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	46
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ½" Screened Depth: 2"	1,535 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	20,246 Sq Ft
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES: CDW/SEL	CK: SEL	DWG. NO. LP–2.11
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			221 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437LP11.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
THE EXTENT OF THE TREE INVENTORY IS LIMITED TO THE DRAINAGE BASIN ON SHEETS LP-2.12, LP-2.13, AND LP-2.43

MATCHLINE SEE SHEET 252

Limit of Basin Tree Inventory

Hydroseed (Native Seed Mix) Bottom of Drainage Basin Per Section 430.7 of the Project Special Provisions.
Seed Qty This Sheet: 11,657 SF
Seed Qty Total Project: 59,000 SF

Existing Tree Tagged as Part of Basin Tree Inventory, Typ., See Tree Inventory Data Table, Sheet LP2.43, For Additional Information

Tree Inventory Tag Number, Typ.

201-38-024
CITY OF PHOENIX

85' NEW DRAINAGE EASEMENT
30' DE, MURT E
5' S/W
8' L/S
10'
75' EX R/W
VARIES F/C
55' EX R/W
15' ROW E MOD 916/34
42' F/C

EP 32+99.10
31+00
32+00
64+00
65+00
66+00
67+00
68

SECTION LINE
HAPPY VALLEY ROAD
20'

201-12-011C
5727 W HAPPY VALLEY RD

PROPOSED DRAINAGE EASEMENT
40'
65'

MATCHLINE STA 63+00 SEE SHEET 221

MATCH LINE STA 68+00 SEE SHEET 223

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	222	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	3
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	3
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	13
	Leucophyllum candidum 'Thunder Cloud'	24
	Muhlenbergia rigens Deer Grass	12
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	2
	ACCENTS	
	Agave palmeri Parry's Agave	9
	Agave ocahui Ocahui Century Plant	13
	Aloe X Blue Elf Blue Elf	13
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	31
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	663 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	19,761 Sq Ft
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-2.12
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			222 OF 364

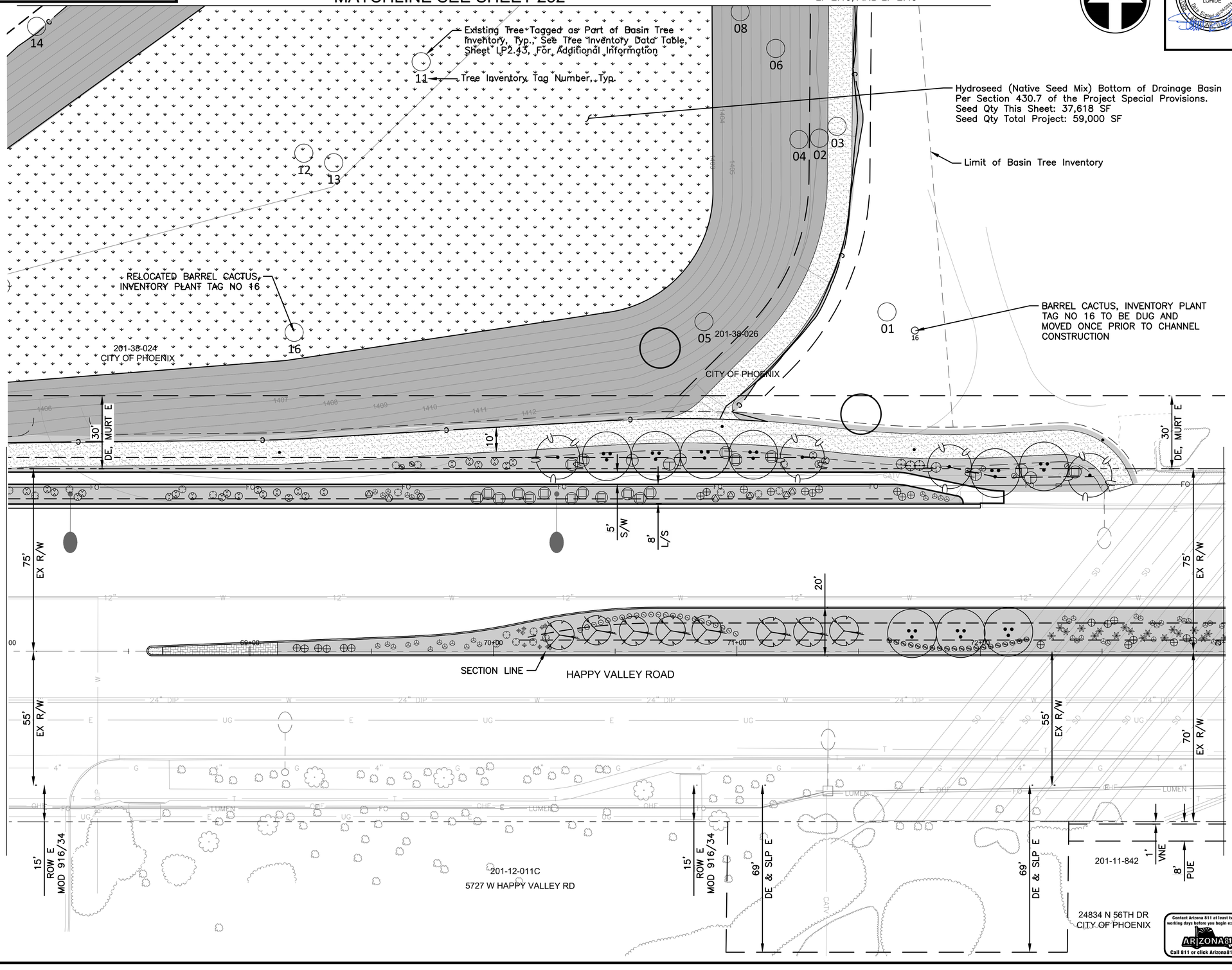
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437LP12.DWG, PLOT DATE: 5/24/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NOTES:
THE EXTENT OF THE TREE INVENTORY IS LIMITED TO THE DRAINAGE BASIN ON SHEETS LP-2.12, LP-2.13, AND LP-2.43



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	223	368	

05/2024 DATE:

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

Botanical Name / Common Name	Qty
TREES	
Acacia aneura Mulga	0
Acacia willardiana Palo Blanco	8
Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	4
Lysiloma thornberi Fern of the Desert	0
Parkinsonia microphyllum Foothill Palo Verde	9
Sophora secundiflora Texas Mountain Laurel	0
SHRUBS AND GROUNDCOVERS	
Asclepias subulata Desert Milkweed	4
Buddleja marrubiifolia Wooly Butterfly Bush	0
Calliandra eriophylla Pink Fairy Duster	8
Dalea greggii Trailing Indigo Bush	0
Euphorbia antisyphilitica Candelilla	25
Leucophyllum candidum 'Thunder Cloud'	27
Muhlenbergia rigens Deer Grass	18
Ruellia peninsularis Desert Ruellia	6
Salvia chamaedryoides Chaparral Sage	22
Tecoma X Sierra Apricot Esperanza	0
Psilotrophe cooperi Paper Flower	27
ACCENTS	
Agave palmeri Parry's Agave	17
Agave ocahui Ocahui Century Plant	18
Aloe X Blue Elf Blue Elf	9
Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	45
Inert Materials	
Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	1,501 Sq Yd
Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	18,301 Sq Ft
Concrete Header	
Other	0 L.F.
Root Barrier - See Dtl 2, Dwg LP-4.01	
Existing Saguaro To Remain, Protect In Place	
Existing Saguaro, To Be Relocated Per Plans	
Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

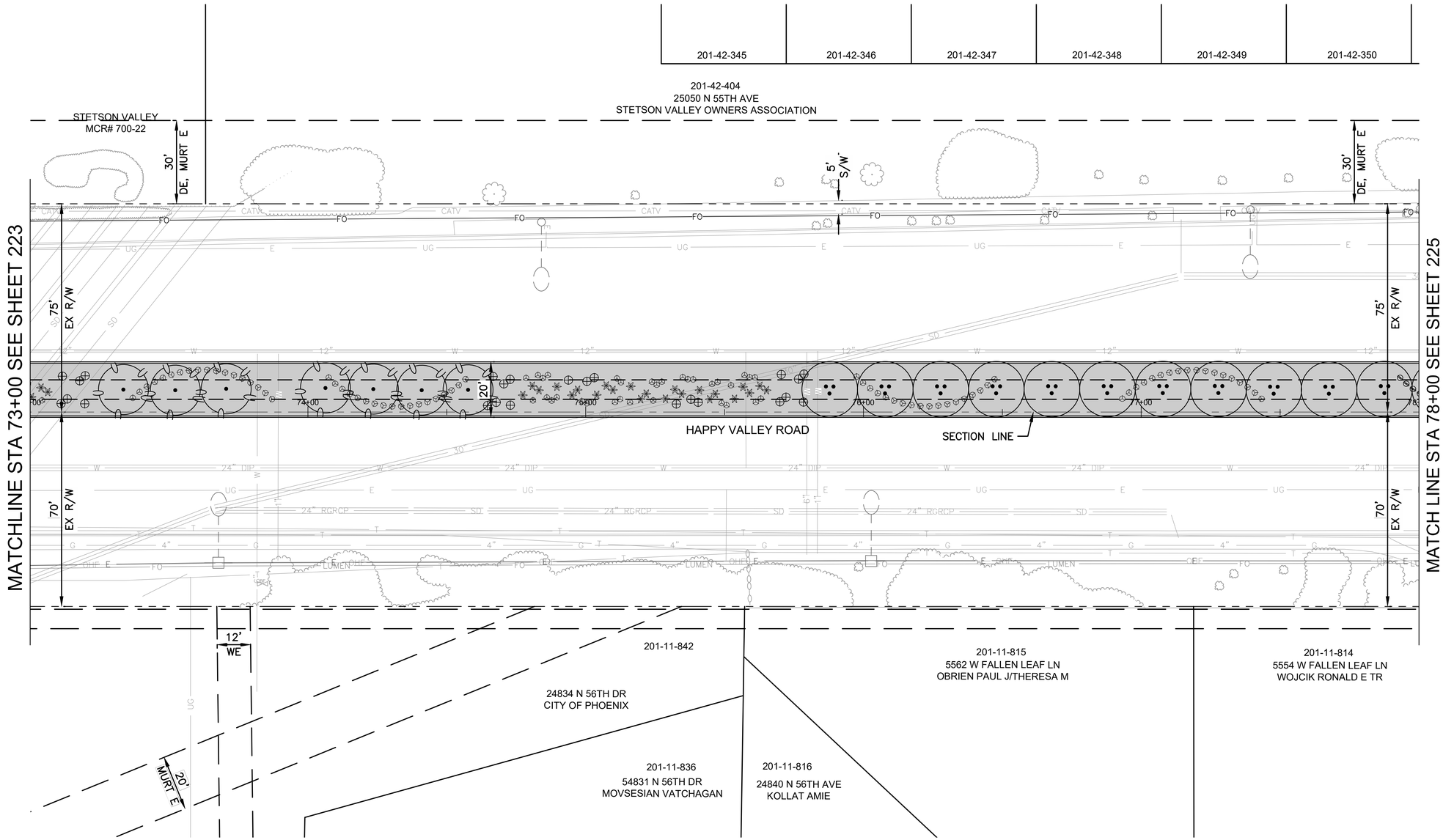
DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.13
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			223 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437LP13.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	224	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	8
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	11
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	24
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	3
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	26
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	0
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	105
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	1,054 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Ft
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK'D: SEL	DWG. NO. LP–2.14
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			224 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437LP14.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	225	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
CERTIFICATE NO. 27437
STEVEN E. LOHIDE
Date Signed 05/23/2024

REVISION BY CITY OF PHOENIX

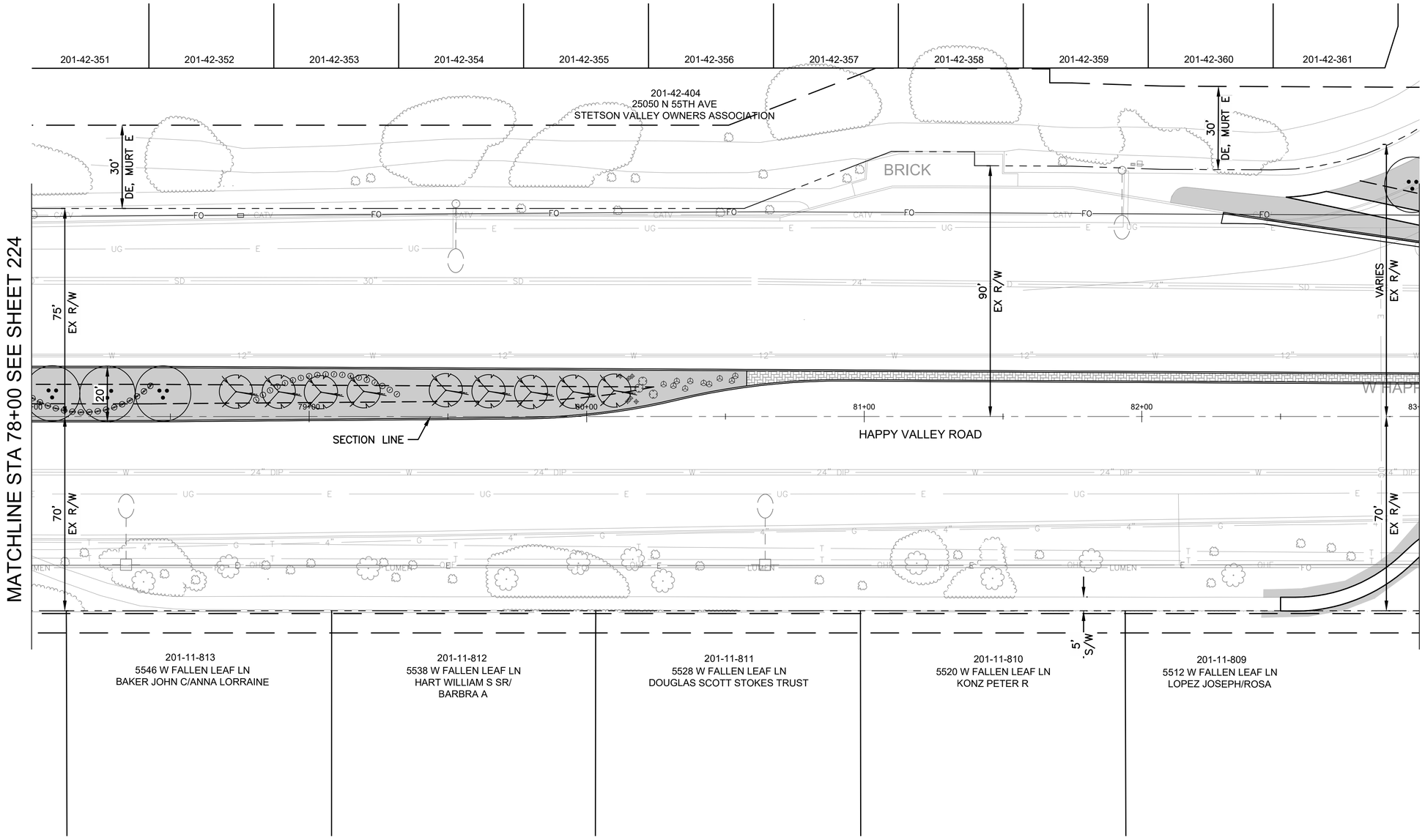
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	9
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	4
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	0
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	16
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	19
	ACCENTS	
	Agave palmeri Parry's Agave	0
	Agave ocahui Ocahui Century Plant	3
	Aloe X Blue Elf Blue Elf	6
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	10
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	629 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Ft
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

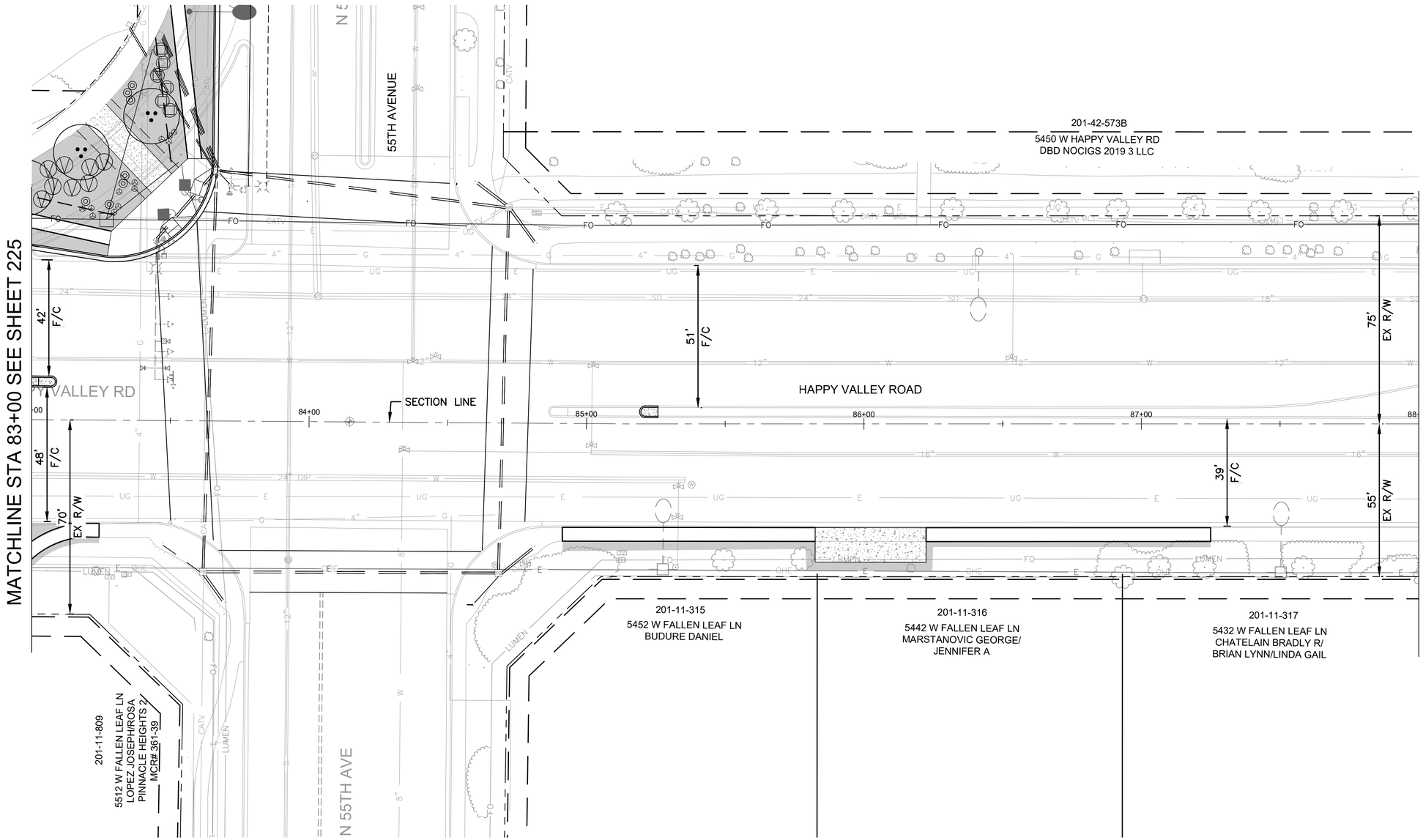
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.15
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			225 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437LP15.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	226	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	2
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	8
	Euphorbia antisyphilitica Candelilla	0
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	6
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	7
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	0
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	0
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	12
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	376 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Ft
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.16
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			226 OF 364

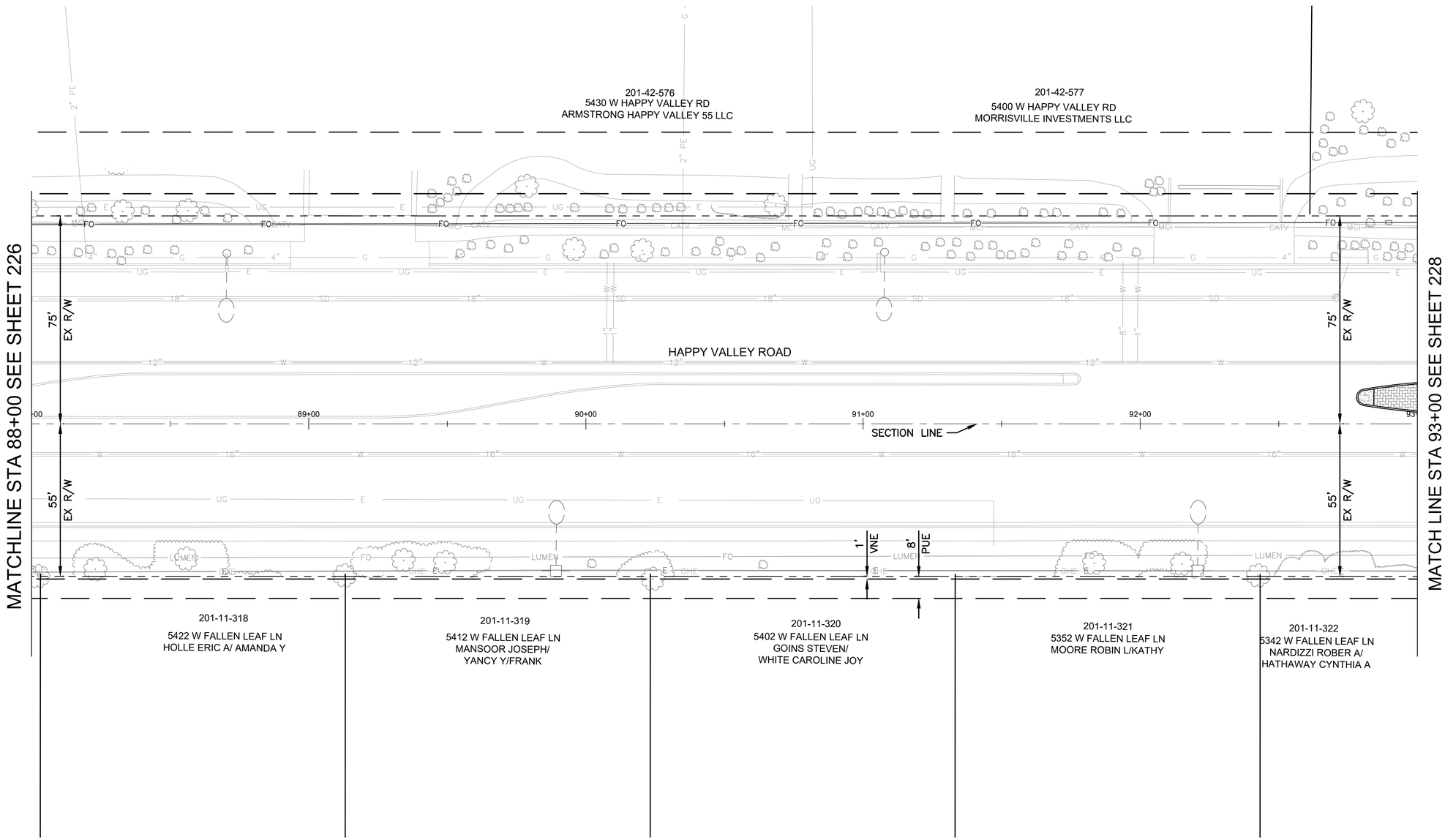
Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437LP16.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



NO LANDSCAPE WORK THIS SHEET

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	227	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

Botanical Name / Common Name	Qty
TREES	
Acacia aneura Mulga	0
Acacia willardiana Palo Blanco	0
Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
Lysiloma thornberi Fern of the Desert	0
Parkinsonia microphyllum Foothill Palo Verde	0
Sophora secundiflora Texas Mountain Laurel	0
SHRUBS AND GROUNDCOVERS	
Asclepias subulata Desert Milkweed	0
Buddleja marrubiifolia Wooly Butterfly Bush	0
Calliandra eriophylla Pink Fairy Duster	0
Dalea greggii Trailing Indigo Bush	0
Euphorbia antisyphilitica Candelilla	0
Leucophyllum candidum 'Thunder Cloud'	0
Muhlenbergia rigens Deer Grass	0
Ruellia peninsularis Desert Ruellia	0
Salvia chamaedryoides Chaparral Sage	0
Tecoma X Sierra Apricot Esperanza	0
Psilotrophe cooperi Paper Flower	0
ACCENTS	
Agave palmeri Parry's Agave	0
Agave ocahui Ocahui Century Plant	0
Aloe X Blue Elf Blue Elf	0
Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	0
Inert Materials	
Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	0 Sq Yd
Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Ft
Concrete Header	
Other	0 L.F.
Root Barrier - See Dtl 2, Dwg LP-4.01	
Existing Saguaro To Remain, Protect In Place	
Existing Saguaro, To Be Relocated Per Plans	
Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES: CDW/SEL	CK: SEL	DWG. NO. LP-2.17
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			227 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

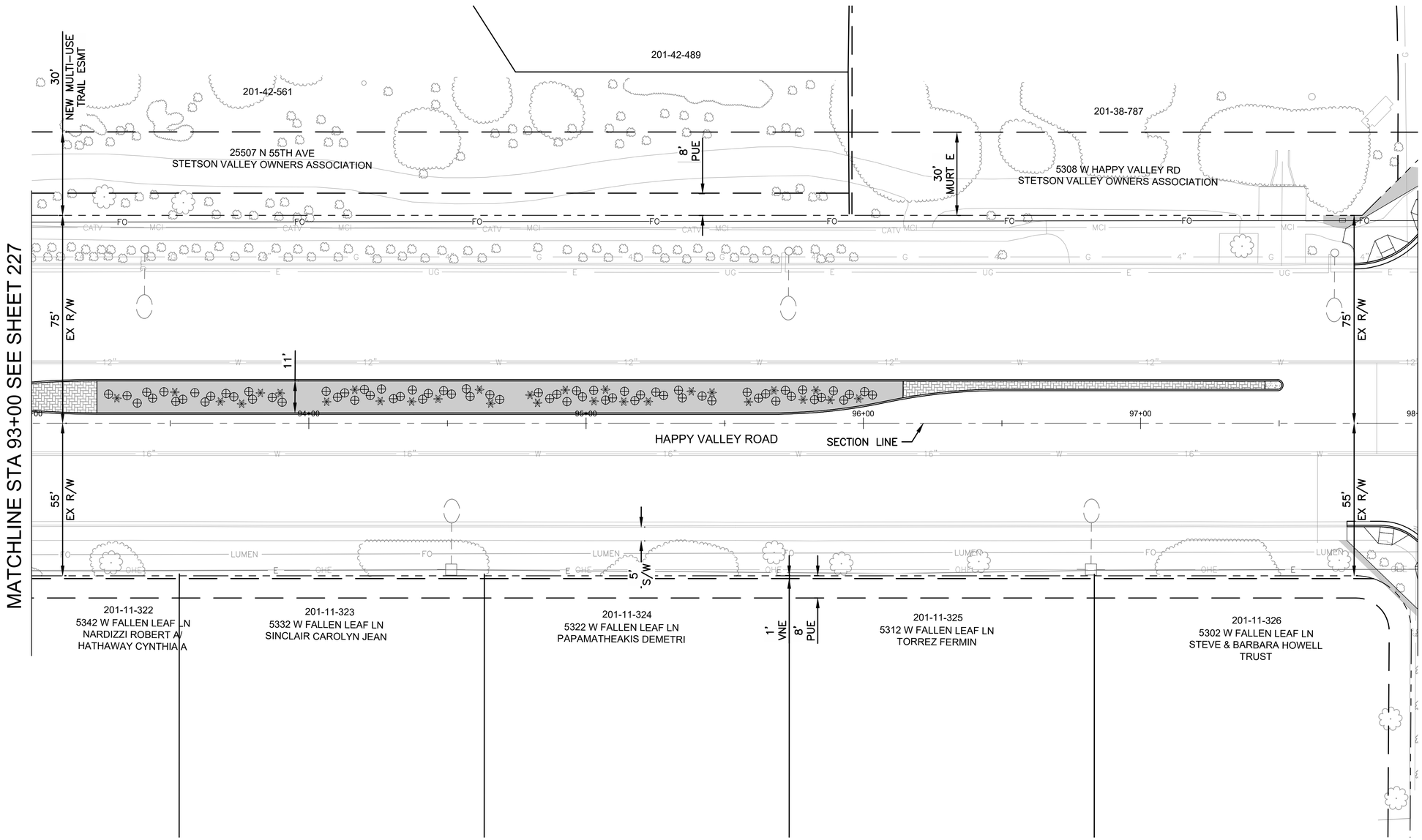
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437LP17.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



MATCHLINE STA 93+00 SEE SHEET 227

MATCH LINE STA 98+00 SEE SHEET 229

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

CERTIFICATE NO. 27437 STEVEN E. LOHIDE — Date Signed 05/23/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	228	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	67
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	28
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	0
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	0
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ⅜" Screened Depth: 2"	389 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Ft
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

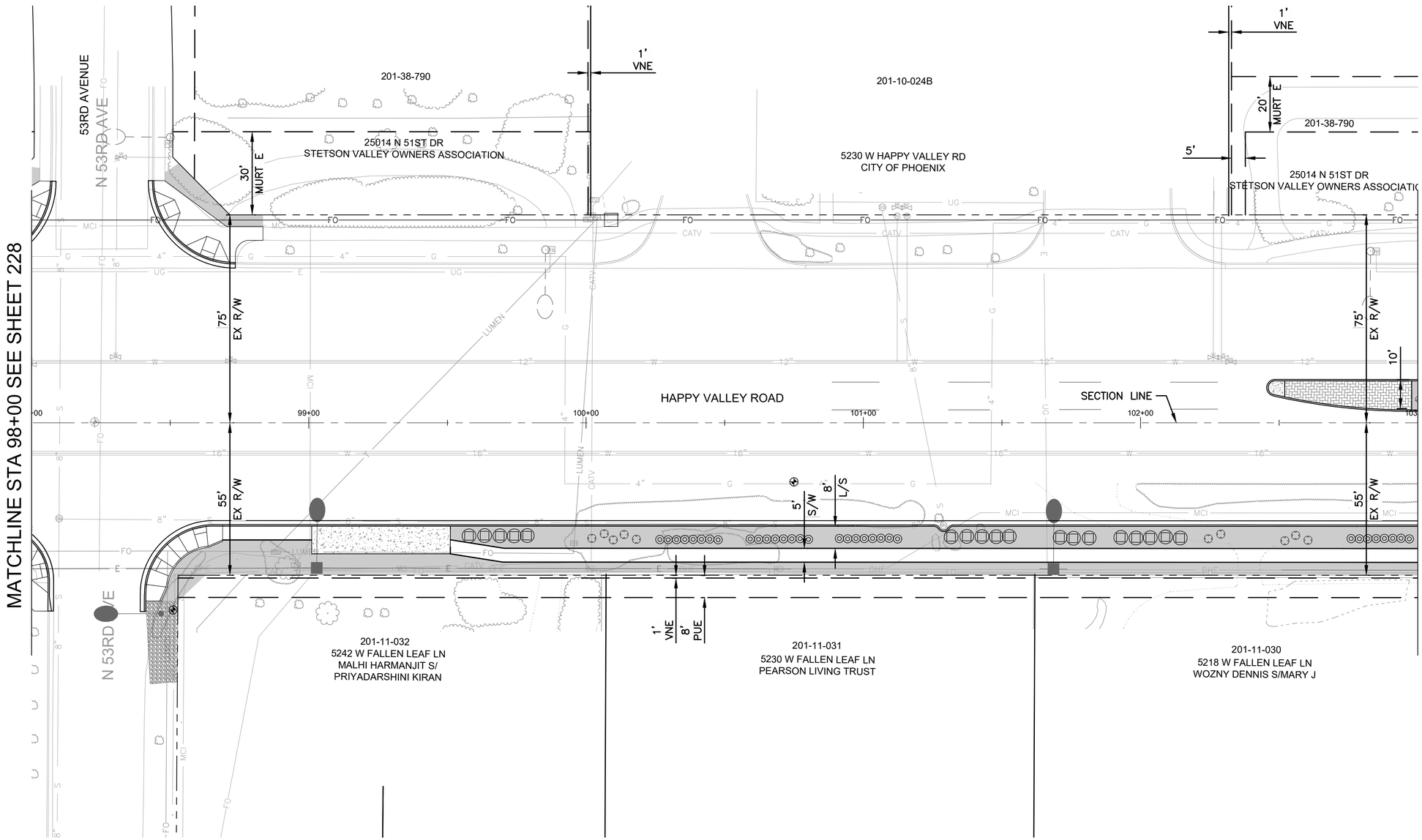
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-2.18
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			228 OF 364

SHEET NAME: ST85100437LP18.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	229	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
CERTIFICATE NO.
27437
STEVEN E. LOHIDE
Date Signed: 05/23/2024

LANDSCAPE LEGEND

Botanical Name / Common Name	Qty
TREES	
Acacia aneura Mulga	0
Acacia willardiana Palo Blanco	0
Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
Lysiloma thornberi Fern of the Desert	0
Parkinsonia microphyllum Foothill Palo Verde	0
Sophora secundiflora Texas Mountain Laurel	0
SHRUBS AND GROUNDCOVERS	
Asclepias subulata Desert Milkweed	0
Buddleja marrubiifolia Wooly Butterfly Bush	0
Calliandra eriophylla Pink Fairy Duster	0
Dalea greggii Trailing Indigo Bush	0
Euphorbia antisyphilitica Candelilla	0
Leucophyllum candidum 'Thunder Cloud'	0
Muhlenbergia rigens Deer Grass	18
Ruellia peninsularis Desert Ruellia	0
Salvia chamaedryoides Chaparral Sage	0
Tecoma X Sierra Apricot Esperanza	32
Psilotrophe cooperi Paper Flower	0
ACCENTS	
Agave palmeri Parry's Agave	0
Agave ocahui Ocahui Century Plant	10
Aloe X Blue Elf Blue Elf	0
Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	1
Inert Materials	
Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	613 Sq Yd
Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Ft
Concrete Header	
Other	0 L.F.
Root Barrier - See Dtl 2, Dwg LP-4.01	
Existing Saguaro To Remain, Protect In Place	
Existing Saguaro, To Be Relocated Per Plans	
Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

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LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-2.19
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			229 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

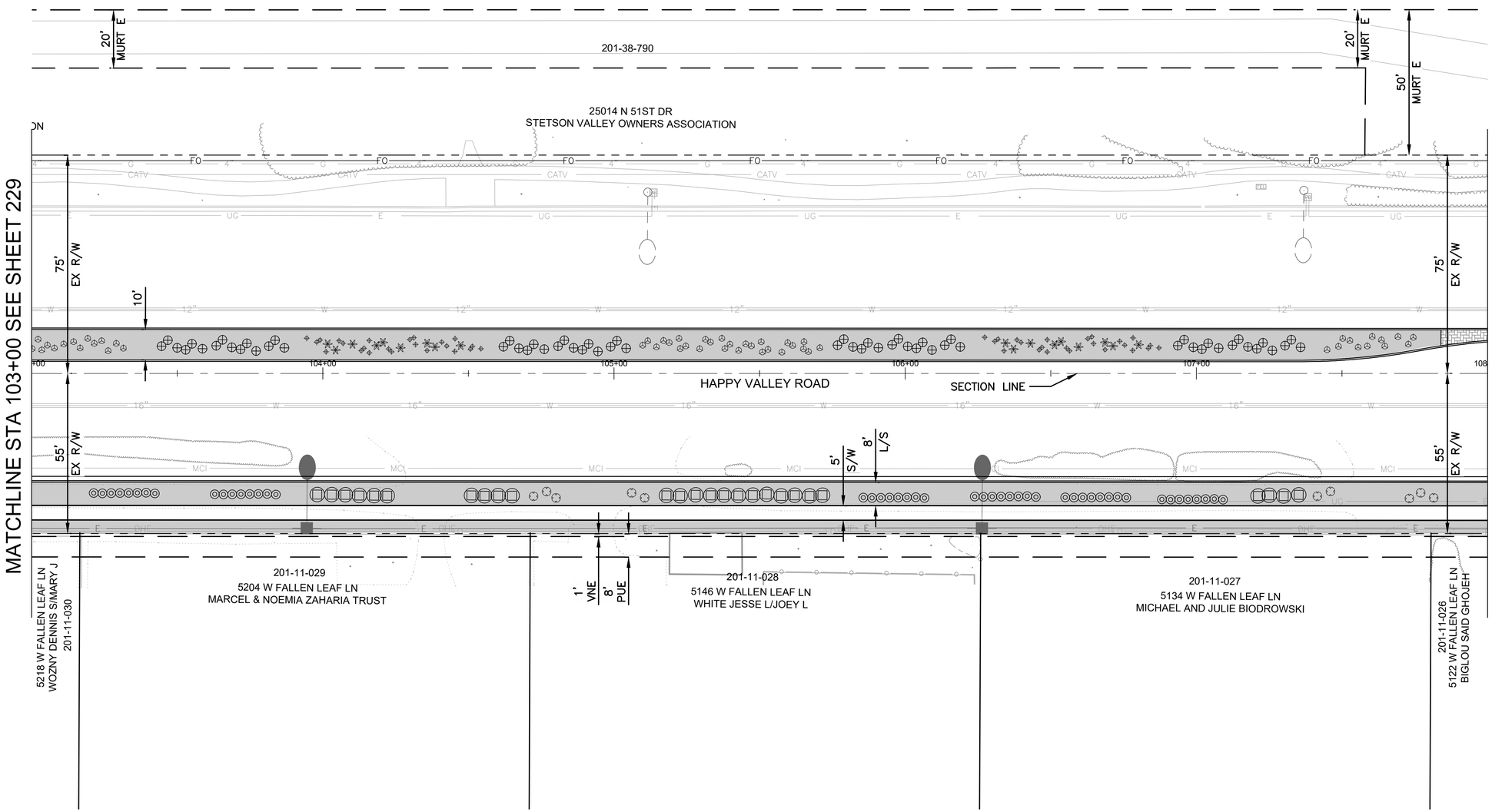
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437LP19.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	230	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	60
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	26
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	48
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	18
	Agave ocahui Ocahui Century Plant	10
	Aloe X Blue Elf Blue Elf	46
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	52
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	1,239 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Ft
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

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LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.20
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			230 OF 364

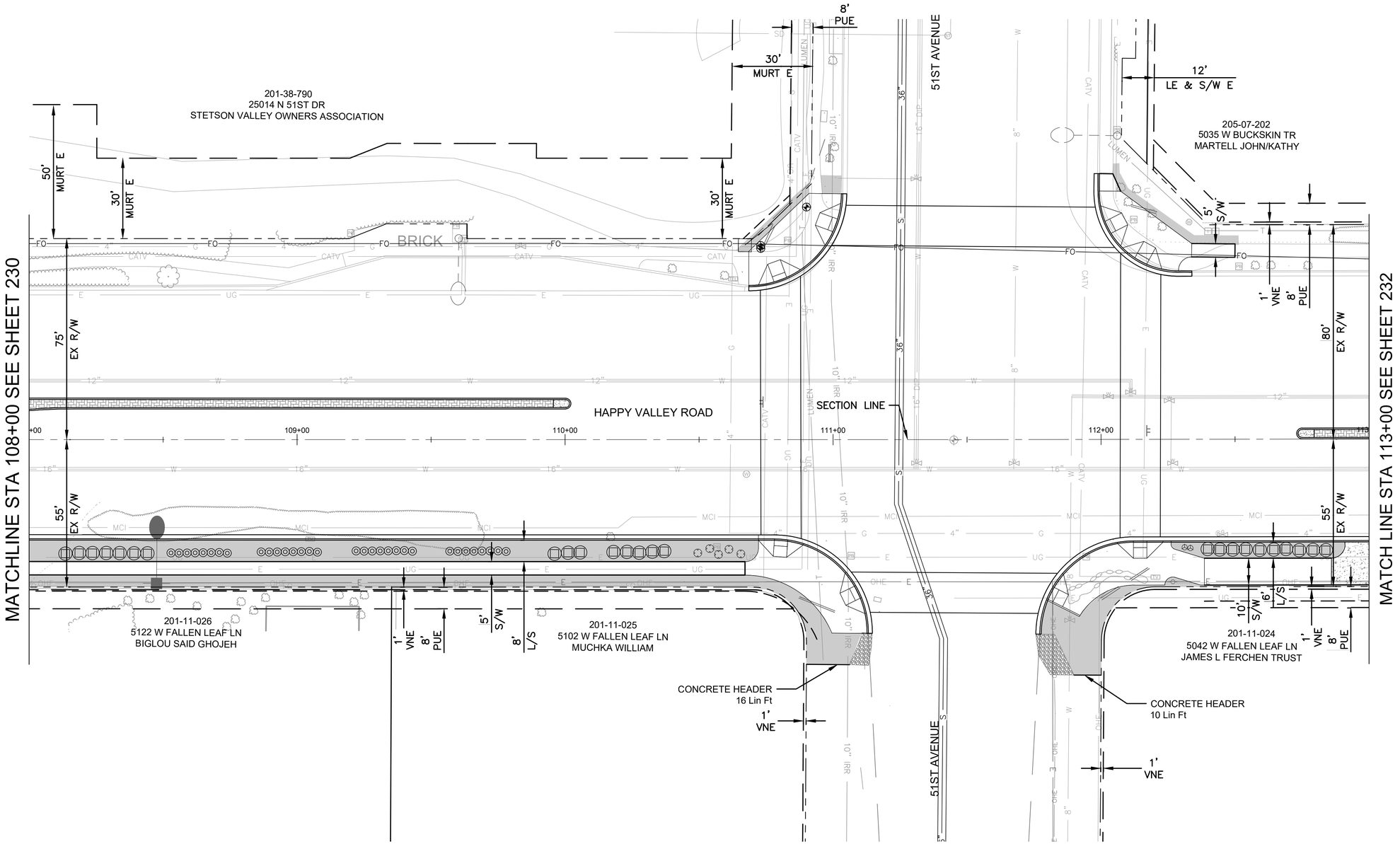
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ARIZONA811
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437LP20.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	231	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	0
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	25
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	32
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	0
	Agave ocahui Ocahui Century Plant	5
	Aloe X Blue Elf Blue Elf	0
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	2
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	564 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Ft
	Concrete Header	26 L.F.
	Other	
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

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LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

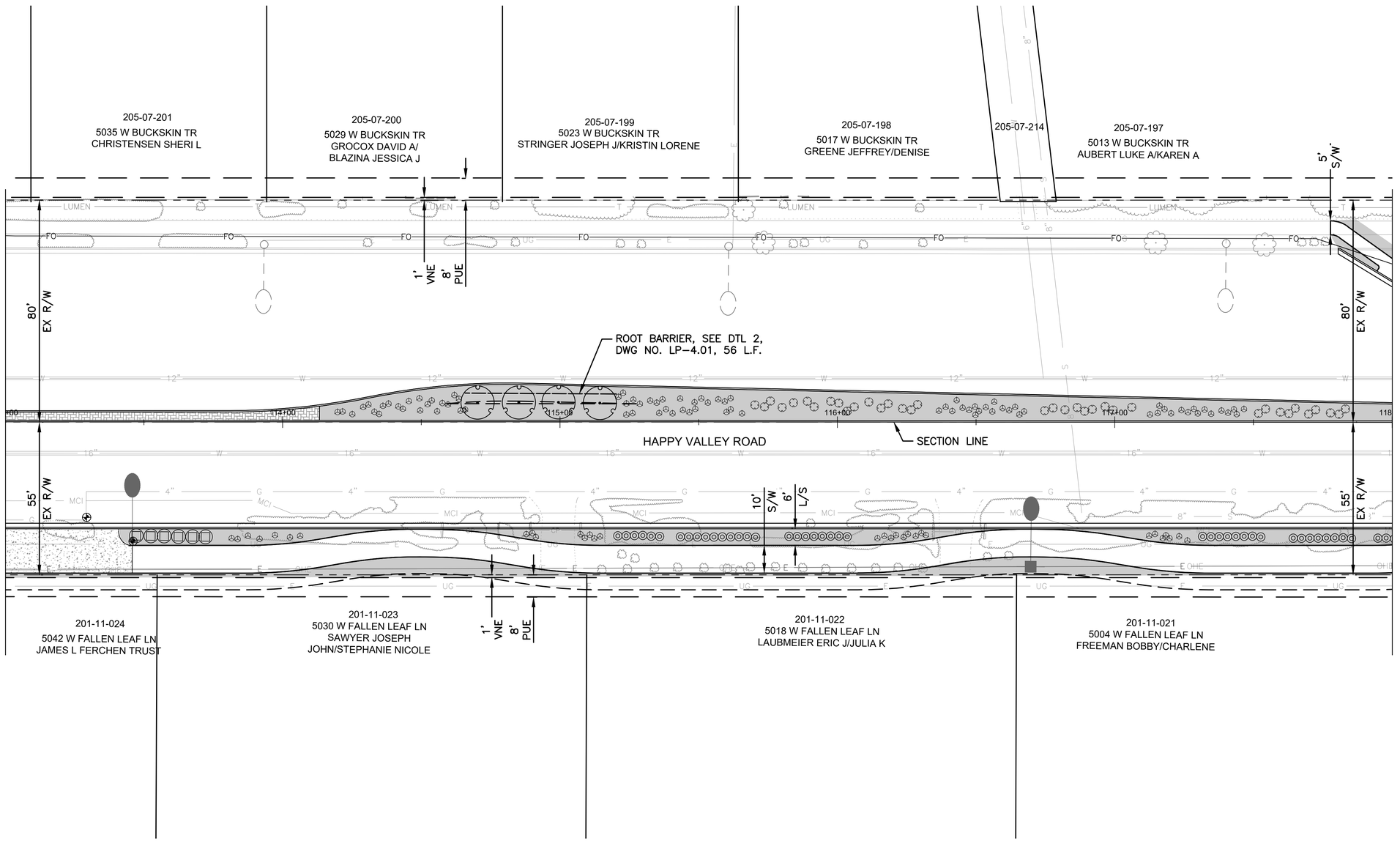
DR: JP	DES:CDW/SELICK: SEL	DWG. NO. LP-2.21
DATE: 05/24	DATE: 05/24 DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL		231 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437LP21.DWG, PLOT DATE: 5/24/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	232	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — CERTIFICATE NO. — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — Date Signed 05/24/2024

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	4
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	0
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	6
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	42
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	0
	Agave ocahui Ocahui Century Plant	36
	Aloe X Blue Elf Blue Elf	0
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	113
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ⅜" Screened Depth: 2"	776 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

DR: JP | DES:CDW/SEL | CK: SEL
DATE: 05/24 | DATE: 05/24 | DATE: 05/24

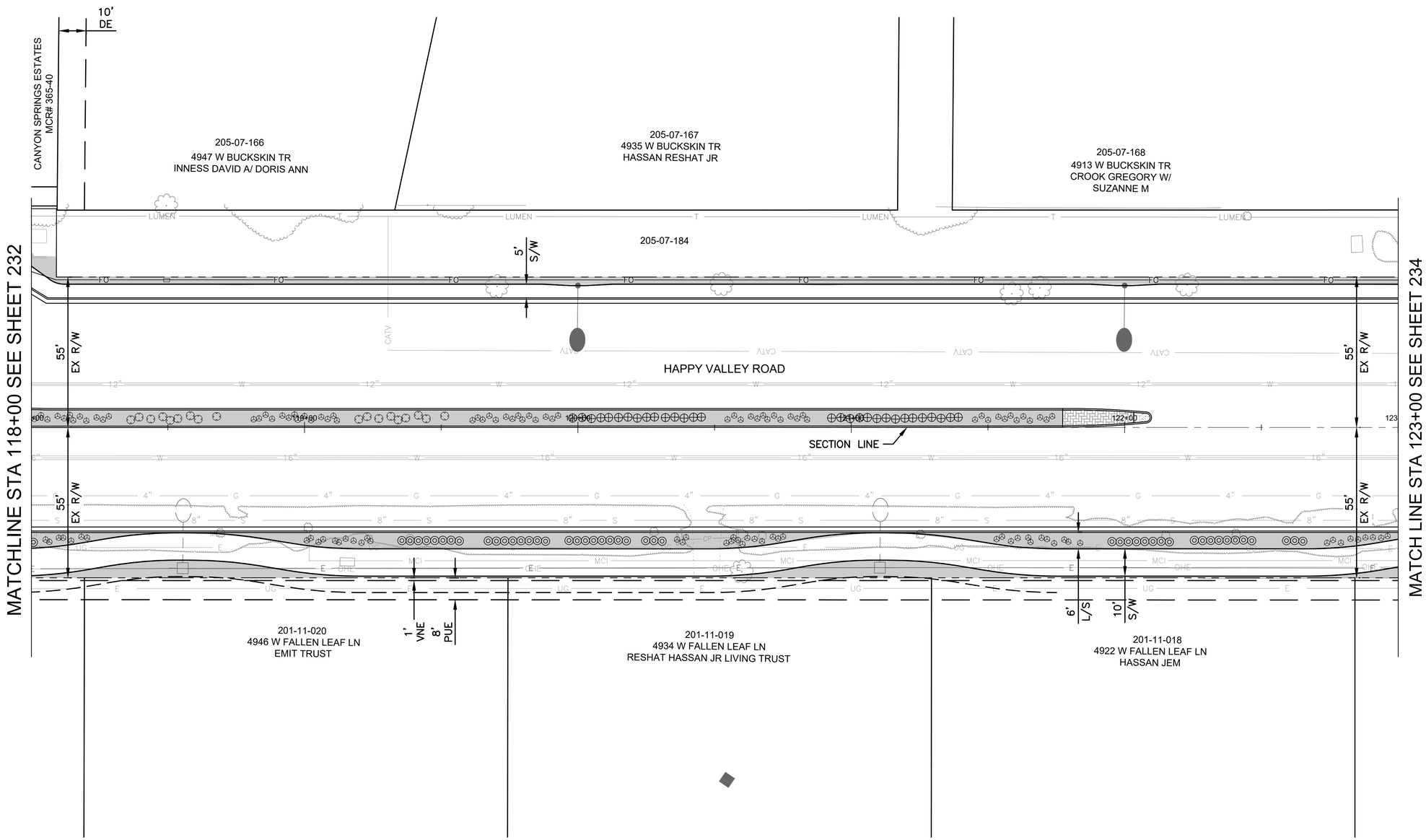
SCALE: 1" = 20' HORIZONTAL

DWG. NO. LP–2.22

232 OF 364

SHEET NAME: ST85100437LP22.DWG, PLOT DATE: 5/24/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	233	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

Botanical Name / Common Name	Qty
TREES	
Acacia aneura Mulga	0
Acacia willardiana Palo Blanco	0
Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
Lysiloma thornberi Fern of the Desert	0
Parkinsonia microphyllum Foothill Palo Verde	0
Sophora secundiflora Texas Mountain Laurel	0
SHRUBS AND GROUNDCOVERS	
Asclepias subulata Desert Milkweed	0
Buddleja marrubiifolia Wooly Butterfly Bush	0
Calliandra eriophylla Pink Fairy Duster	0
Dalea greggii Trailing Indigo Bush	0
Euphorbia antisyphilitica Candelilla	30
Leucophyllum candidum 'Thunder Cloud'	0
Muhlenbergia rigens Deer Grass	0
Ruellia peninsularis Desert Ruellia	0
Salvia chamaedryoides Chaparral Sage	0
Tecoma X Sierra Apricot Esperanza	47
Psilotrophe cooperi Paper Flower	0
ACCENTS	
Agave palmeri Parry's Agave	0
Agave ocahui Ocahui Century Plant	18
Aloe X Blue Elf Blue Elf	0
Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	118
Inert Materials	
Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	734 Sq Yd
Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
Concrete Header	
Other	0 L.F.
Root Barrier - See Dtl 2, Dwg LP-4.01	
Existing Saguaro To Remain, Protect In Place	
Existing Saguaro, To Be Relocated Per Plans	
Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-2.23
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			233 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

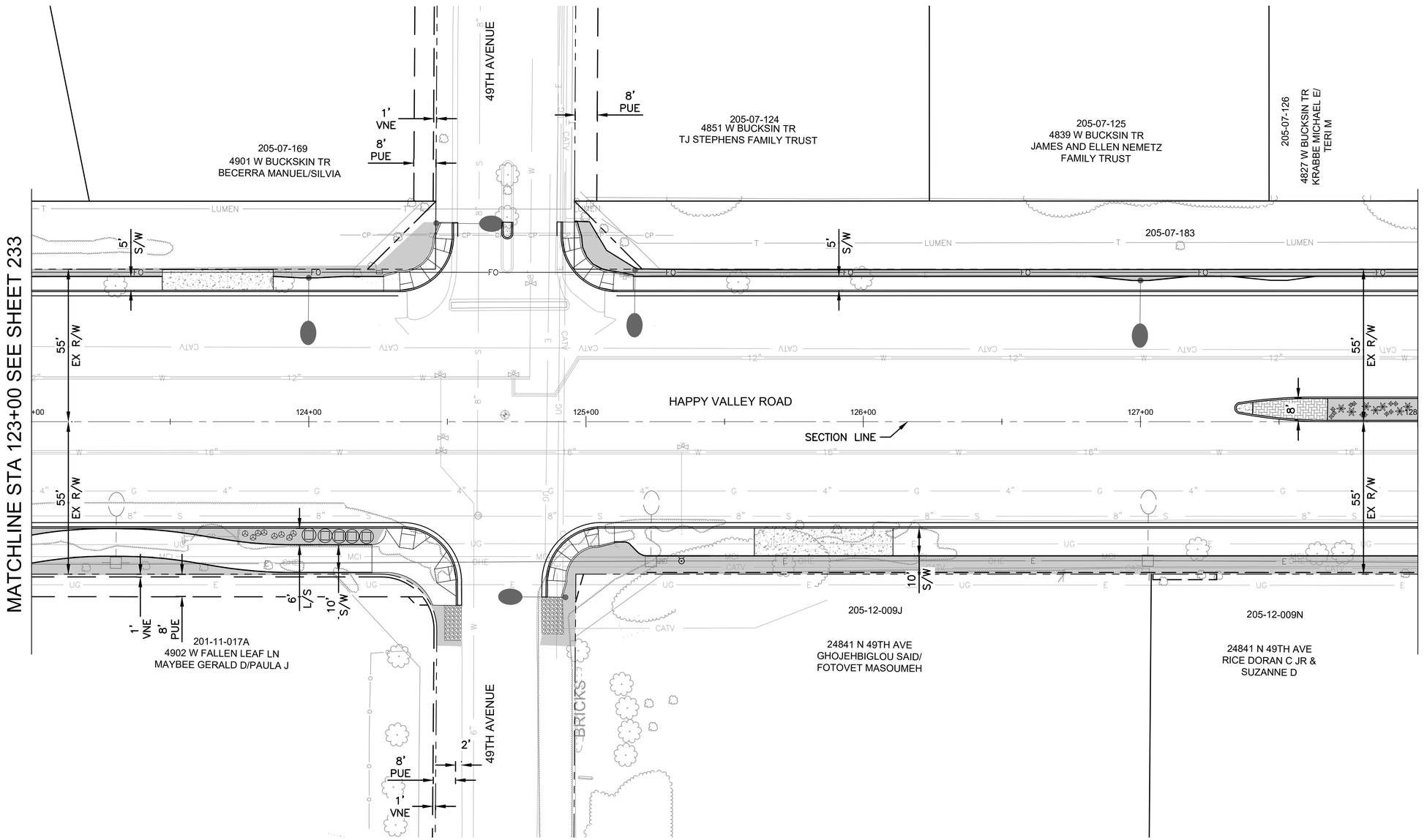
REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437LP23.DWG, PLOT DATE: 5/24/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX					
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX					
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX					
NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	234	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	0
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	5
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	7
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	11
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	8
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	528 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

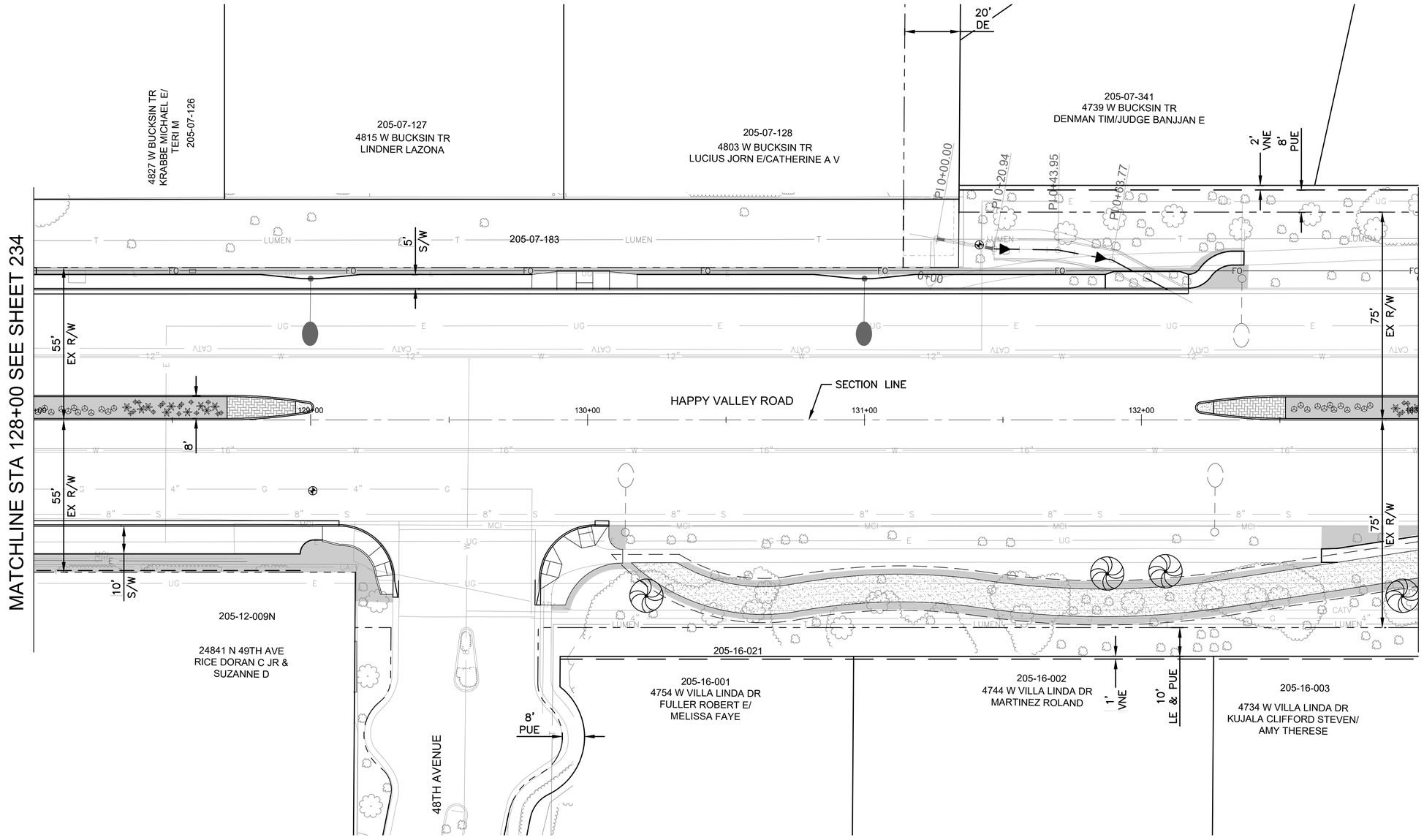
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.24
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			234 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437LP24.DWG, PLOT DATE: 5/24/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	235	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	4
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	0
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	12
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	19
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	24
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	502 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.25
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			235 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437LP25.DWG, PLOT DATE: 5/24/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

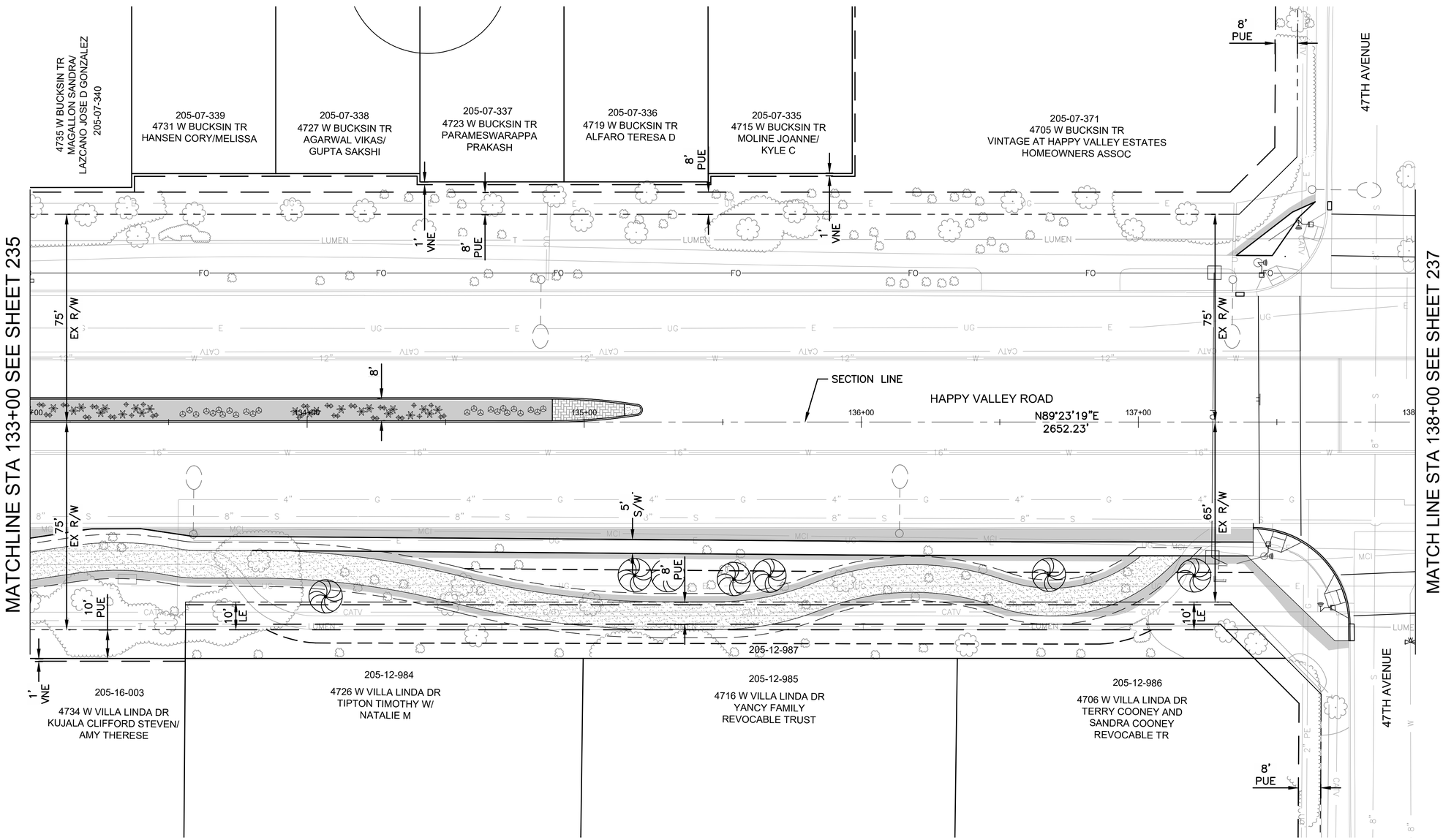
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	236	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
CERTIFICATE NO.
27437
STEVEN E. LOHIDE
Date Signed: 05/23/2024

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	7
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	0
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	21
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	38
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	24
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¼" Screened Depth: 2"	571 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

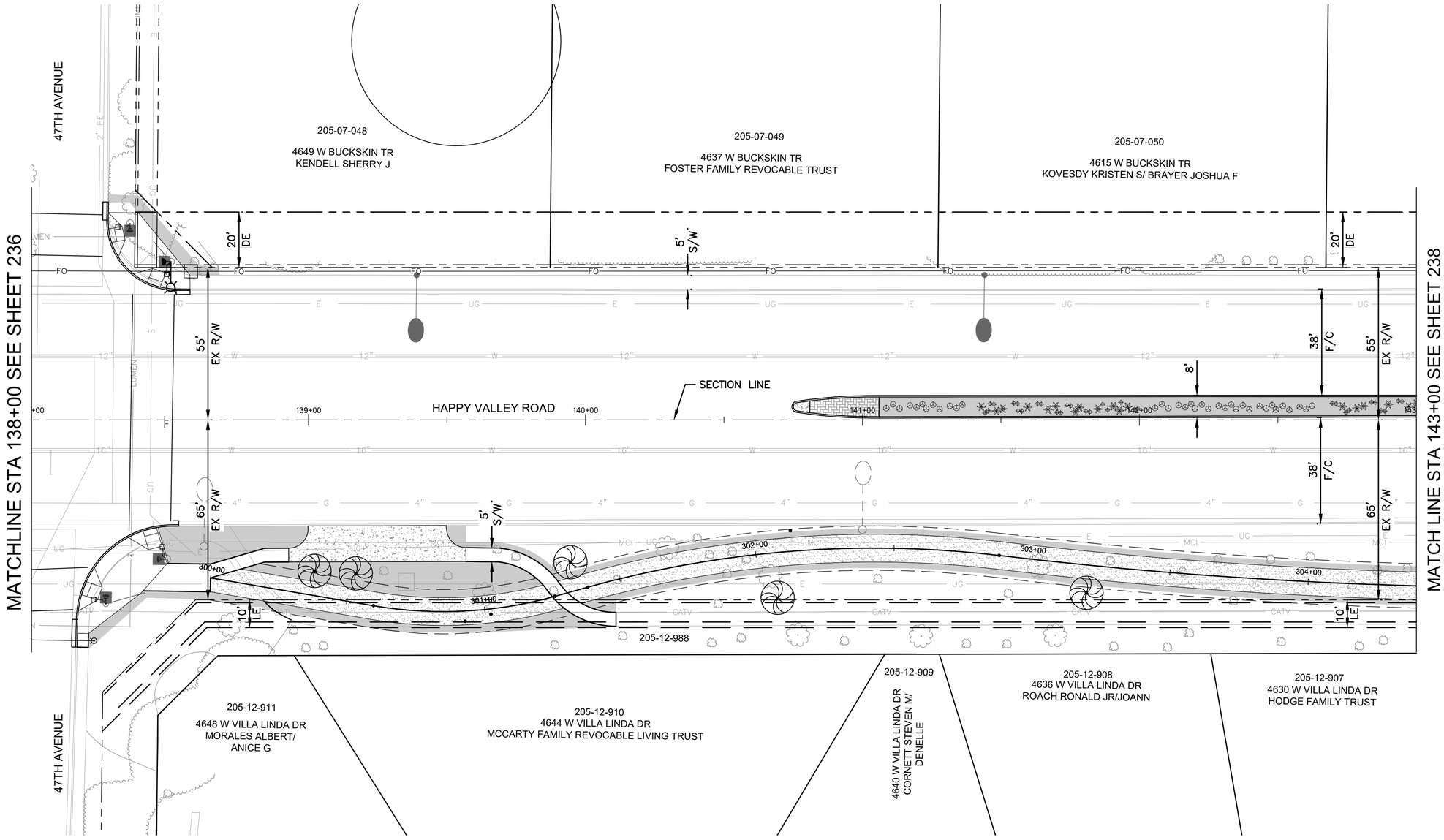
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK'D: SEL	DWG. NO. LP-2.26
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			236 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437LP26.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	237	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	6
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	0
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	18
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	31
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	36
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ½" Screened Depth: 2"	560 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

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LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

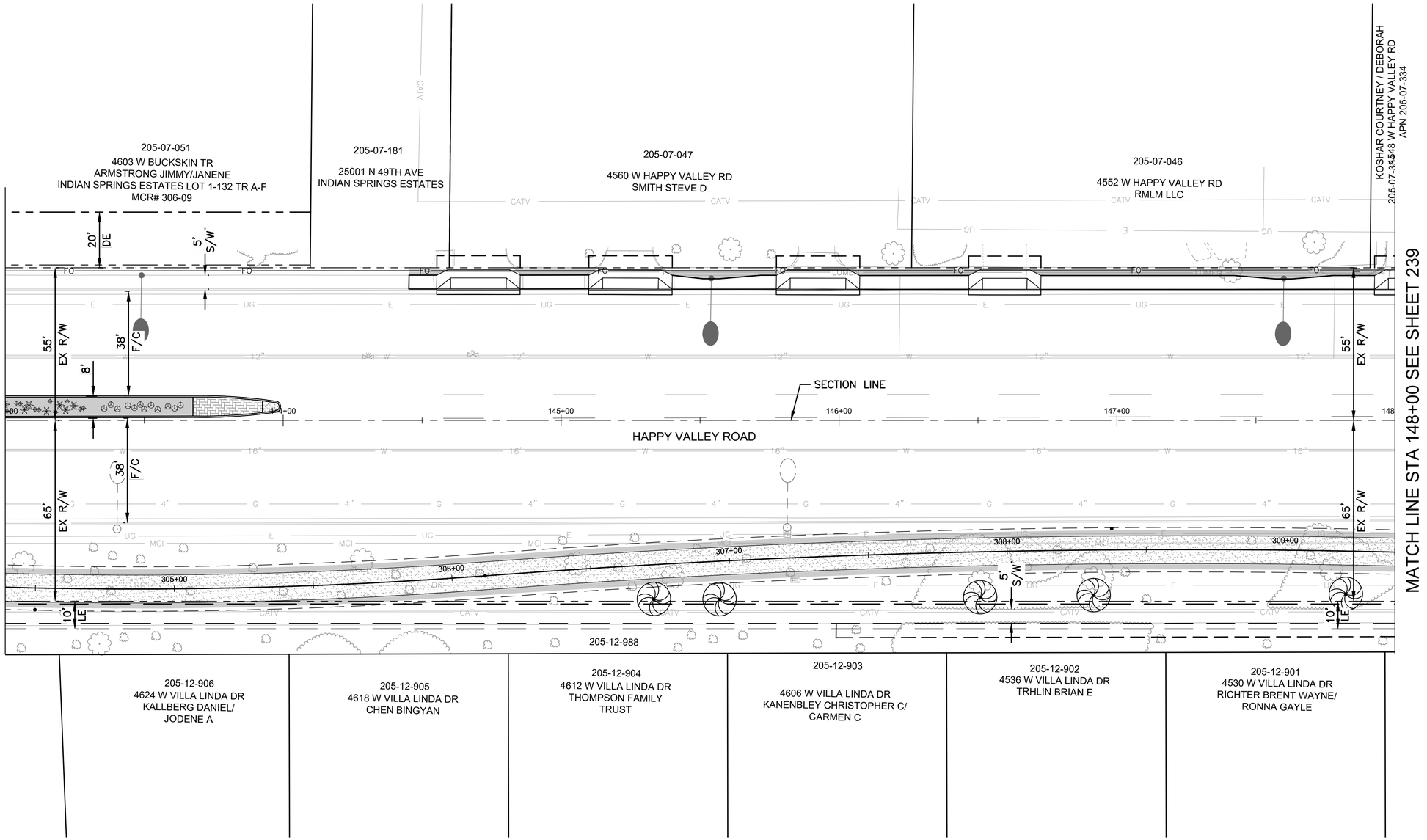
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES: CDW/SEL	CK: SEL	DWG. NO. LP-2.27
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			237 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437LP27.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	238	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

Botanical Name / Common Name	Qty
TREES	
Acacia aneura Mulga	5
Acacia willardiana Palo Blanco	0
Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
Lysiloma thornberi Fern of the Desert	0
Parkinsonia microphyllum Foothill Palo Verde	0
Sophora secundiflora Texas Mountain Laurel	0
SHRUBS AND GROUNDCOVERS	
Asclepias subulata Desert Milkweed	0
Buddleja marrubiifolia Wooly Butterfly Bush	0
Calliandra eriophylla Pink Fairy Duster	0
Dalea greggii Trailing Indigo Bush	0
Euphorbia antisyphilitica Candelilla	0
Leucophyllum candidum 'Thunder Cloud'	0
Muhlenbergia rigens Deer Grass	0
Ruellia peninsularis Desert Ruellia	0
Salvia chamaedryoides Chaparral Sage	0
Tecoma X Sierra Apricot Esperanza	0
Psilotrophe cooperi Paper Flower	0
ACCENTS	
Agave palmeri Parry's Agave	6
Agave ocahui Ocahui Century Plant	0
Aloe X Blue Elf Blue Elf	11
Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	12
Inert Materials	
Decomposed Granite Color: Santa Fe Gold Size: 1" Screened Depth: 2"	337 Sq Yd
Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
Concrete Header	
Other	0 L.F.
Root Barrier - See Dtl 2, Dwg LP-4.01	
Existing Saguaro To Remain, Protect In Place	
Existing Saguaro, To Be Relocated Per Plans	
Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

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LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

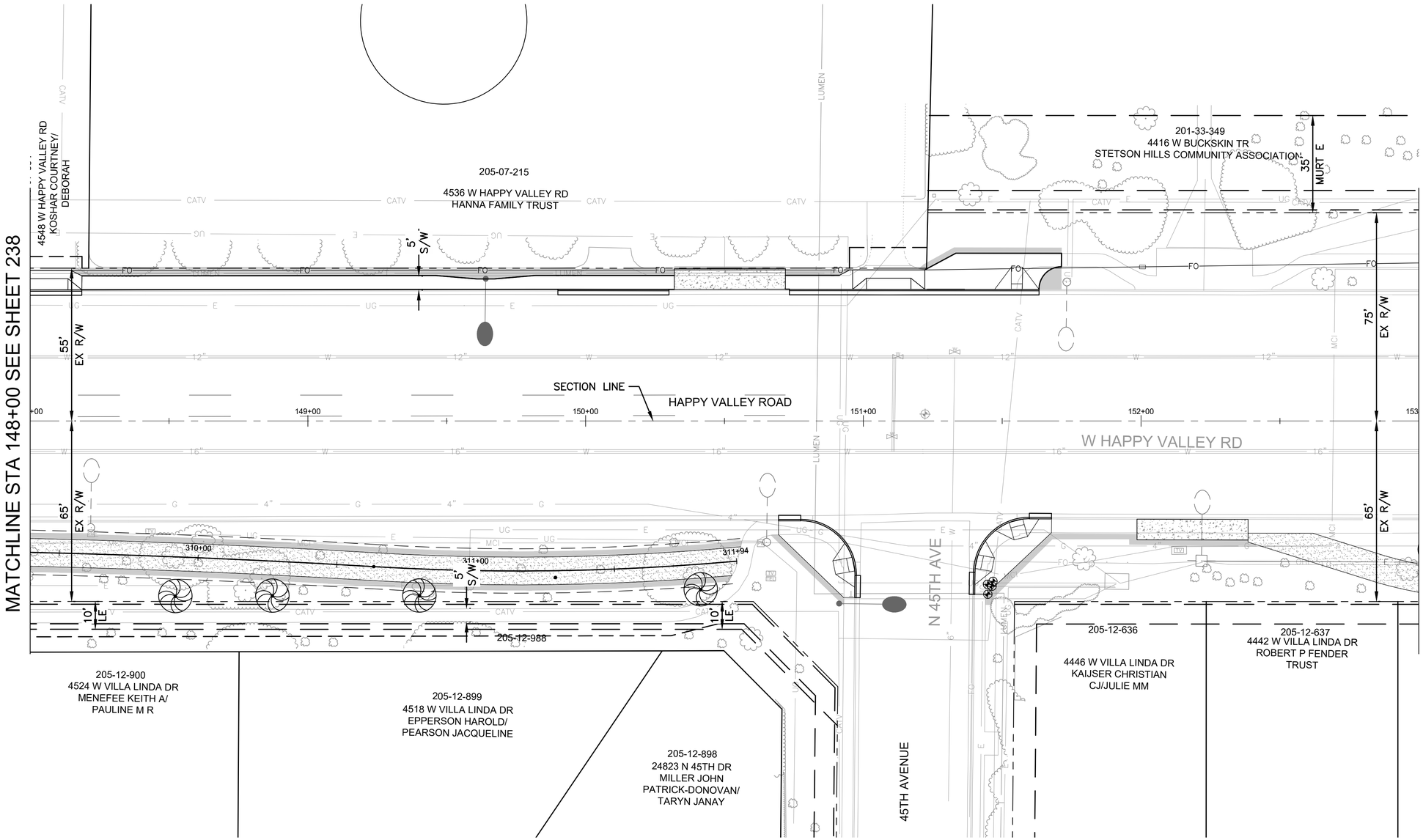
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DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			238 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
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REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437LP28.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	239	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	4
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	0
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	0
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	0
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	0
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ½" Screened Depth: 2"	230 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

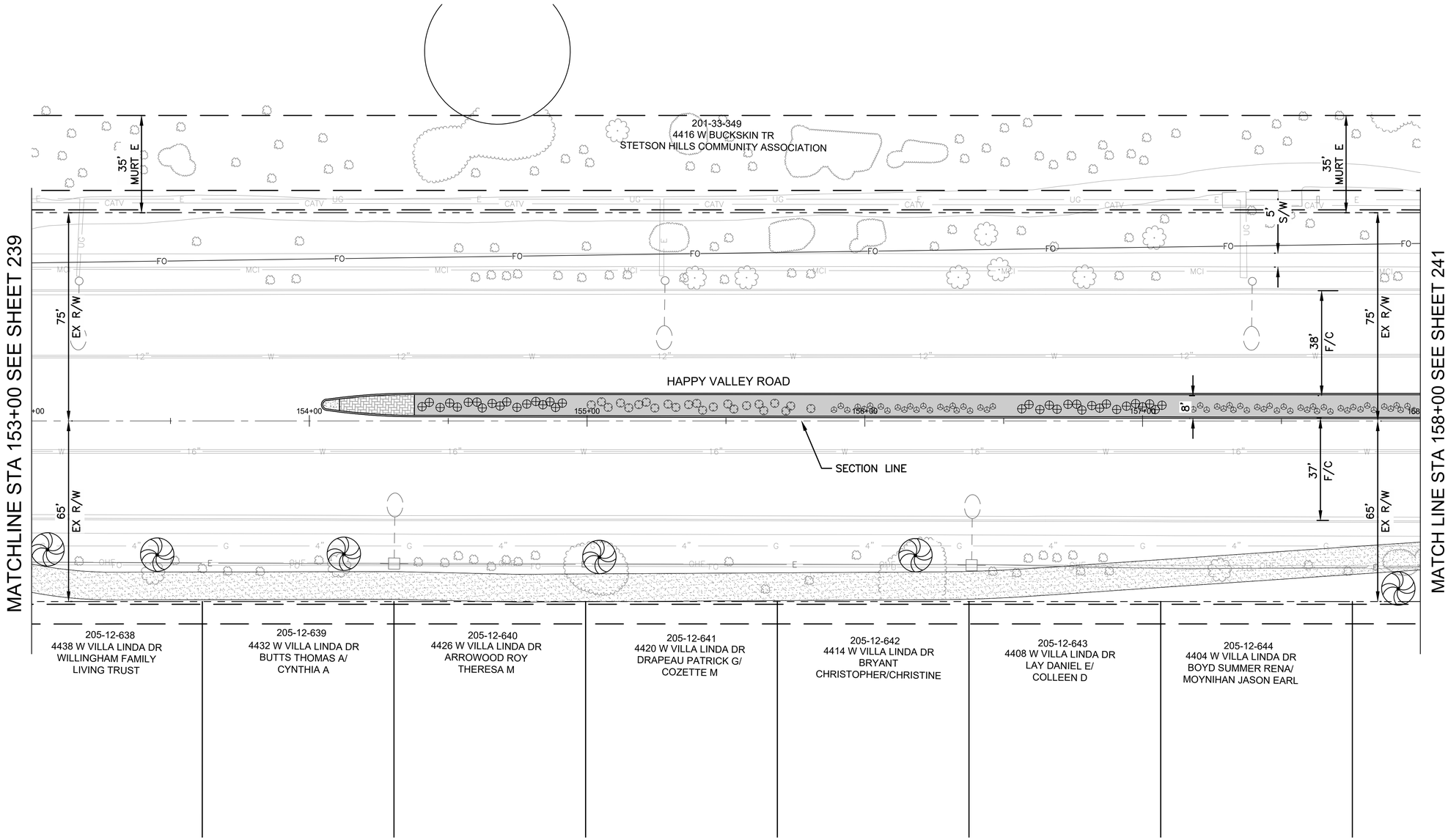
DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.29
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			239 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
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REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437LP29.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	240	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

Botanical Name / Common Name	Qty
TREES	
Acacia aneura Mulga	6
Acacia willardiana Palo Blanco	0
Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
Lysiloma thornberi Fern of the Desert	0
Parkinsonia microphyllum Foothill Palo Verde	0
Sophora secundiflora Texas Mountain Laurel	0
SHRUBS AND GROUNDCOVERS	
Asclepias subulata Desert Milkweed	0
Buddleja marrubiifolia Wooly Butterfly Bush	0
Calliandra eriophylla Pink Fairy Duster	0
Dalea greggii Trailing Indigo Bush	0
Euphorbia antisyphilitica Candelilla	36
Leucophyllum candidum 'Thunder Cloud'	0
Muhlenbergia rigens Deer Grass	0
Ruellia peninsularis Desert Ruellia	0
Salvia chamaedryoides Chaparral Sage	0
Tecoma X Sierra Apricot Esperanza	0
Psilotrophe cooperi Paper Flower	0
ACCENTS	
Agave palmeri Parry's Agave	0
Agave ocahui Ocahui Century Plant	23
Aloe X Blue Elf Blue Elf	0
Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	58
Inert Materials	
Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	310 Sq Yd
Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
Concrete Header	
Other	0 L.F.
Root Barrier - See Dtl 2, Dwg LP-4.01	
Existing Saguaro To Remain, Protect In Place	
Existing Saguaro, To Be Relocated Per Plans	
Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

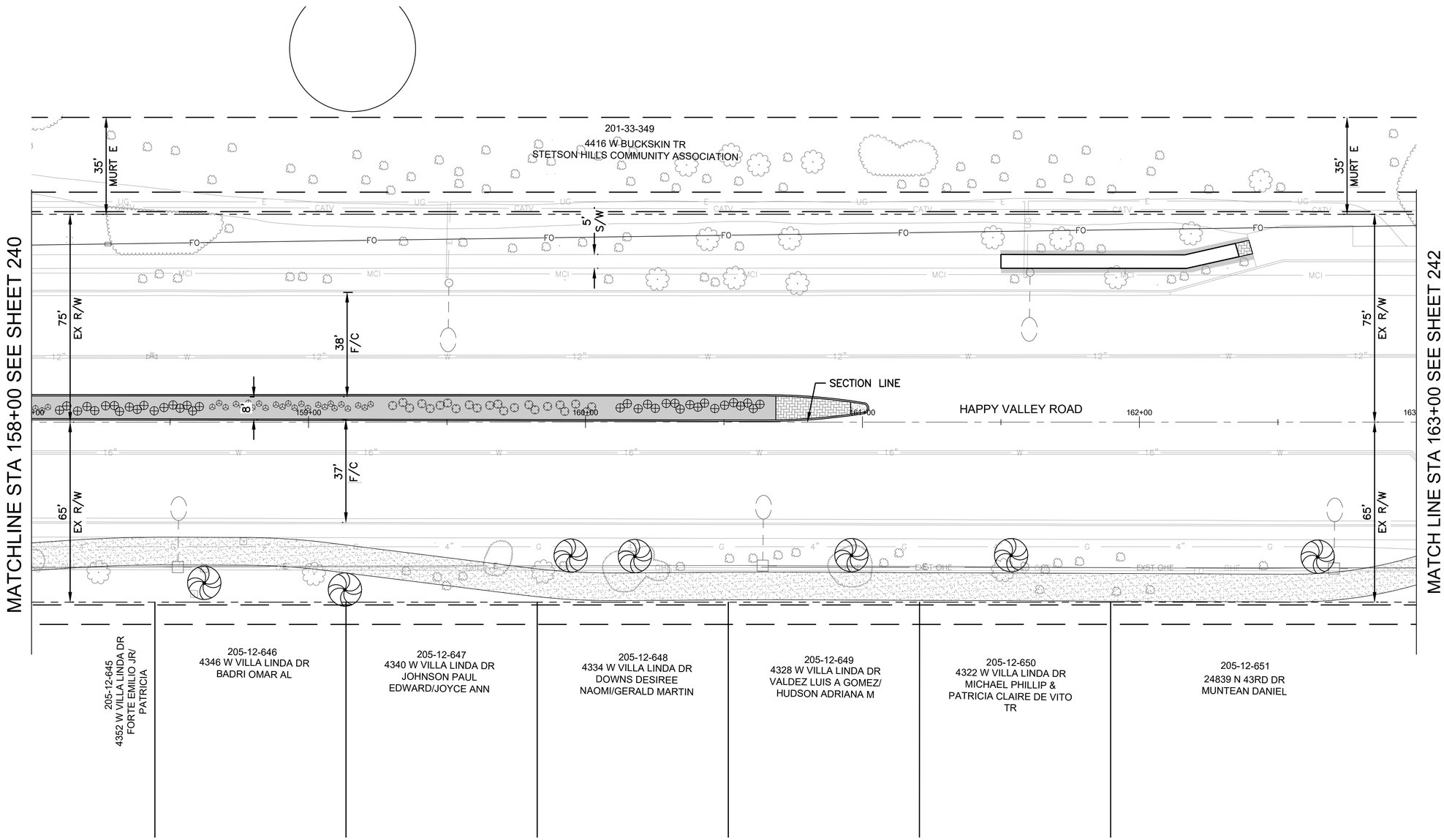
DR: JP	DES: CDW/SEL	CK: SEL	DWG. NO. LP-2.30
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			240 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
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REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437LP30.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	241	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — CERTIFICATE NO. — Date Signed 05/24/2024

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	7
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	36
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	0
	Agave ocahui Ocahui Century Plant	22
	Aloe X Blue Elf Blue Elf	0
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	27
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	308 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

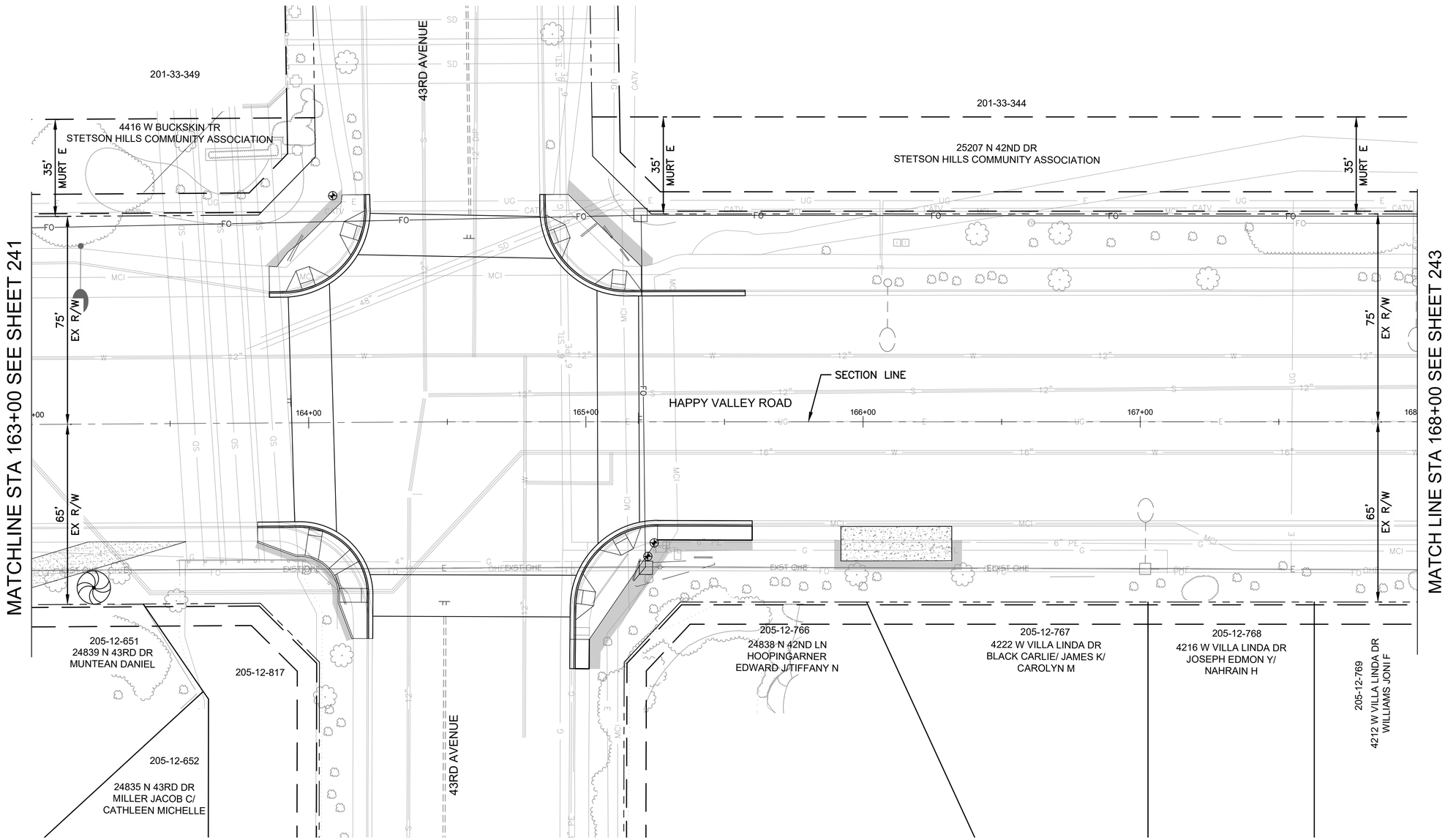
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.31
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			241 OF 364

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ARIZONA811 Call 811 or click Arizona811.com

SHEET NAME: ST85100437LP31.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	242	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
CERTIFICATE NO. 27437
STEVEN E. LOHIDE
Date Signed 05/24/2024

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	2
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	0
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	0
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	0
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	0
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¼" Screened Depth: 2"	111 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place Existing Saguaro, To Be Relocated Per Plans Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-2.32
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			242 OF 364

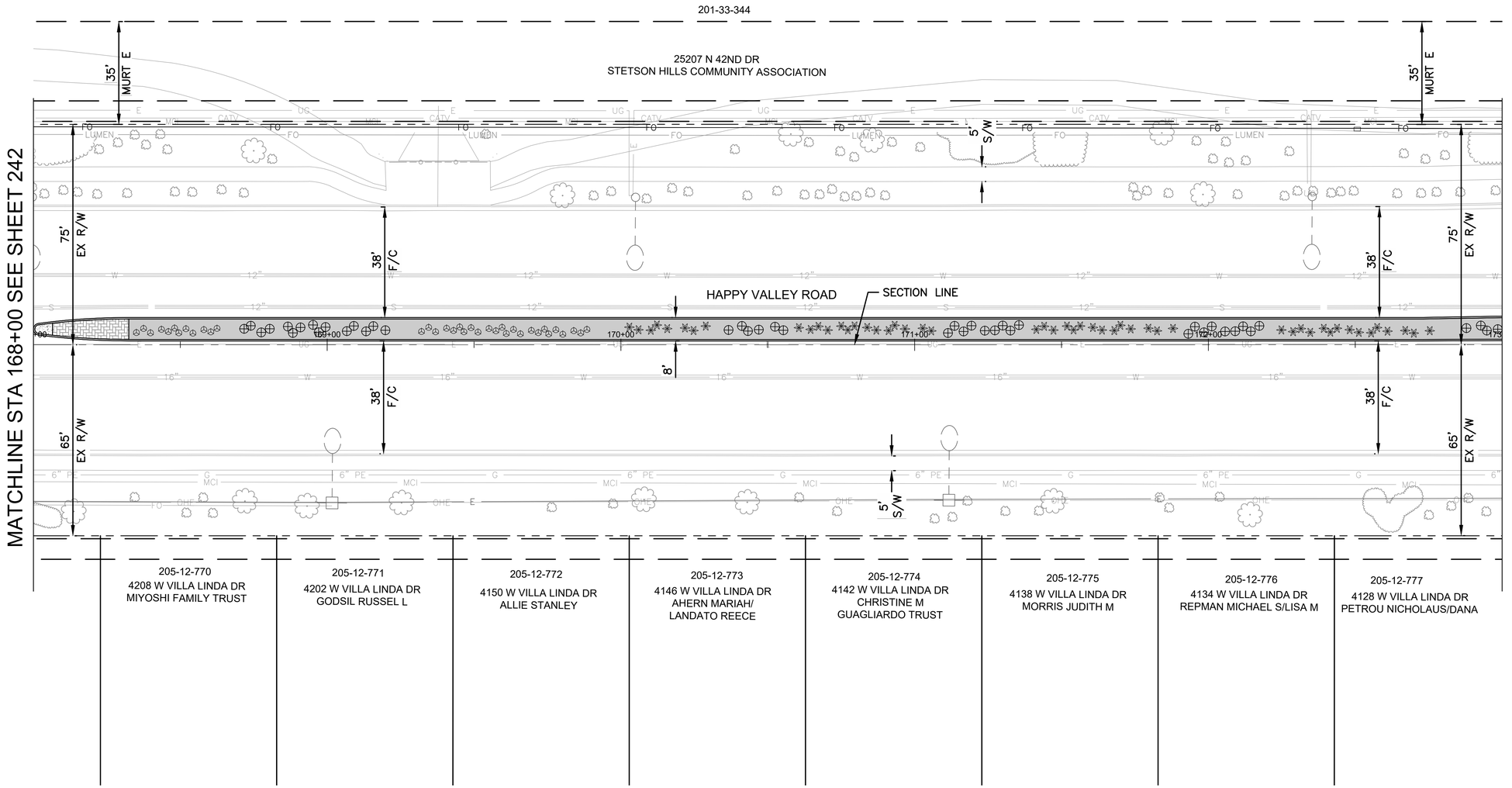
Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437LP32.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	243	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

Botanical Name / Common Name	Qty
TREES	
Acacia aneura Mulga	0
Acacia willardiana Palo Blanco	0
Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
Lysiloma thornberi Fern of the Desert	0
Parkinsonia microphyllum Foothill Palo Verde	0
Sophora secundiflora Texas Mountain Laurel	0
SHRUBS AND GROUNDCOVERS	
Asclepias subulata Desert Milkweed	0
Buddleja marrubiifolia Wooly Butterfly Bush	0
Calliandra eriophylla Pink Fairy Duster	0
Dalea greggii Trailing Indigo Bush	0
Euphorbia antisyphilitica Candelilla	43
Leucophyllum candidum 'Thunder Cloud'	0
Muhlenbergia rigens Deer Grass	0
Ruellia peninsularis Desert Ruellia	0
Salvia chamaedryoides Chaparral Sage	0
Tecoma X Sierra Apricot Esperanza	0
Psilotrophe cooperi Paper Flower	0
ACCENTS	
Agave palmeri Parry's Agave	51
Agave ocahui Ocahui Century Plant	0
Aloe X Blue Elf Blue Elf	0
Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	36
Inert Materials	
Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	364 Sq Yd
Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
Concrete Header	
Other	0 L.F.
Root Barrier - See Dtl 2, Dwg LP-4.01	
Existing Saguaro To Remain, Protect In Place	
Existing Saguaro, To Be Relocated Per Plans	
Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

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ARIZONA811
Call 811 or click Arizona811.com

LANDSCAPE PLAN

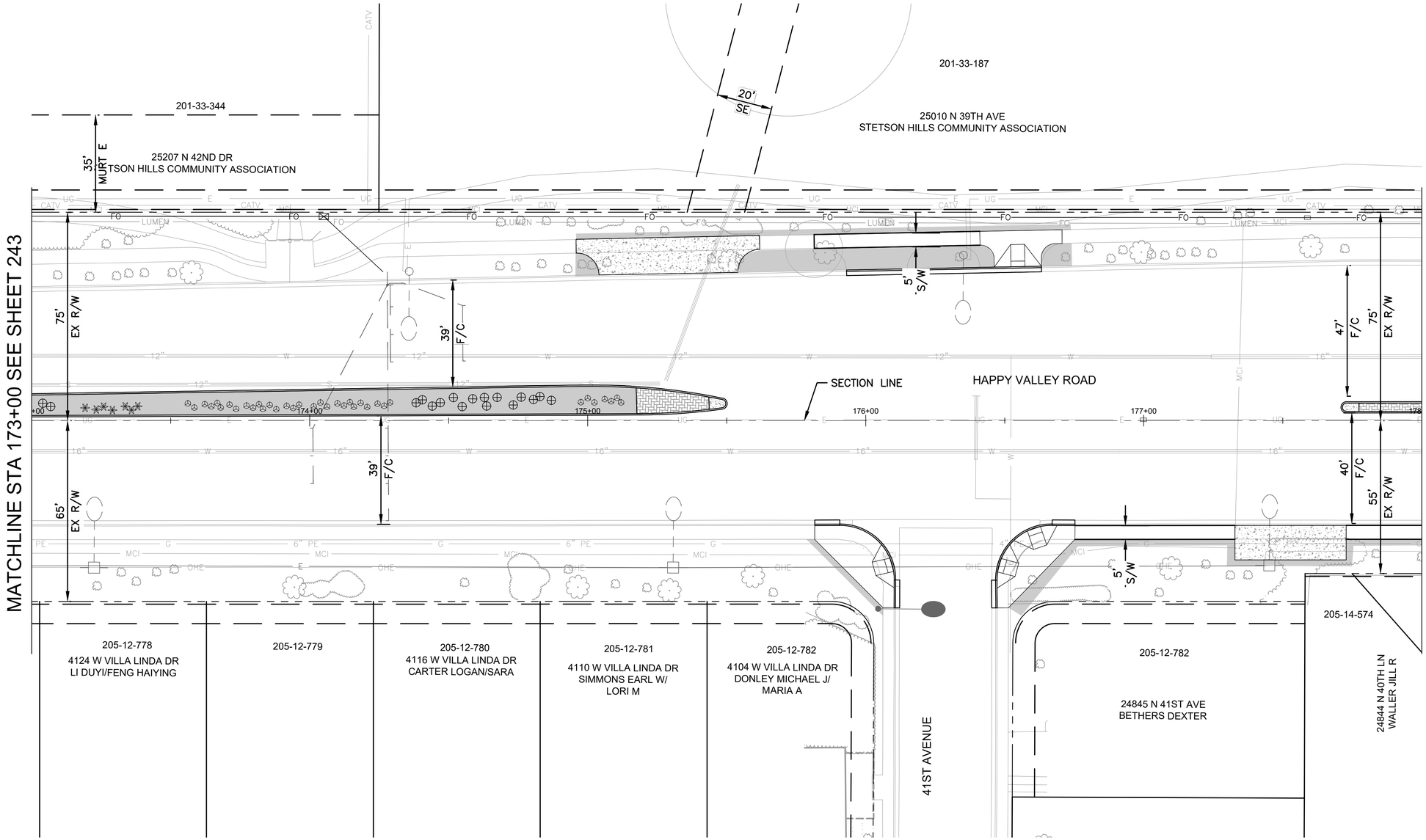
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-2.33
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			243 OF 364

SHEET NAME: ST85100437LP33.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	244	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

CERTIFICATE NO. 27437 STEVEN E. LOHIDE — Date Signed 05/24/2024

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	17
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	7
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	0
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	36
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	394 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

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LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.34
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			244 OF 364

SHEET NAME: ST85100437LP34.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	245	368	

05/2024 DATE:

AZTEC TYPSA

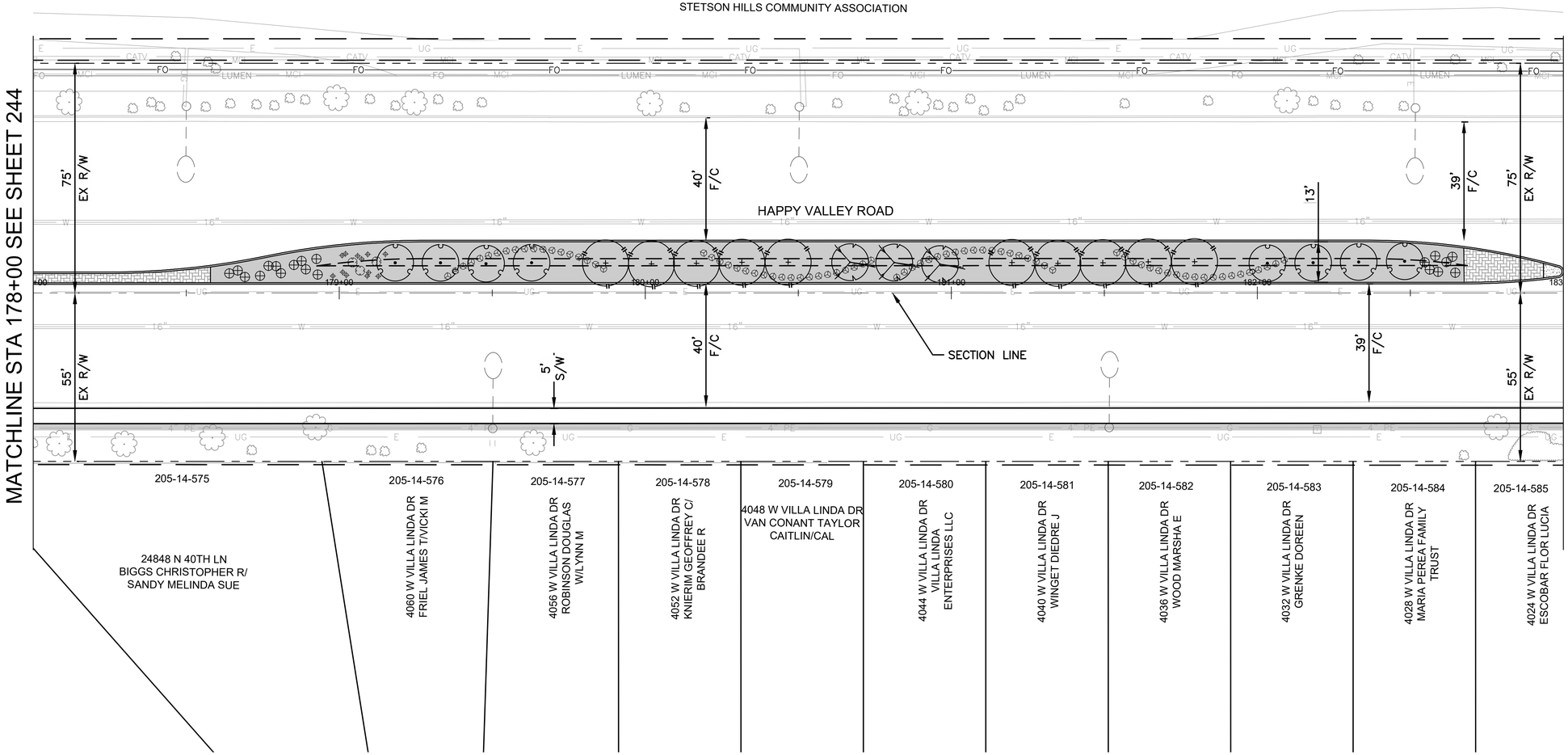
DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

201-33-187

25010 N 39TH AVE
STETSON HILLS COMMUNITY ASSOCIATION



LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	3
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	10
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	8
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	19
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	0
	Agave ocahui Ocahui Century Plant	3
	Aloe X Blue Elf Blue Elf	12
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	78
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	690 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place Existing Saguaro, To Be Relocated Per Plans Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

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LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

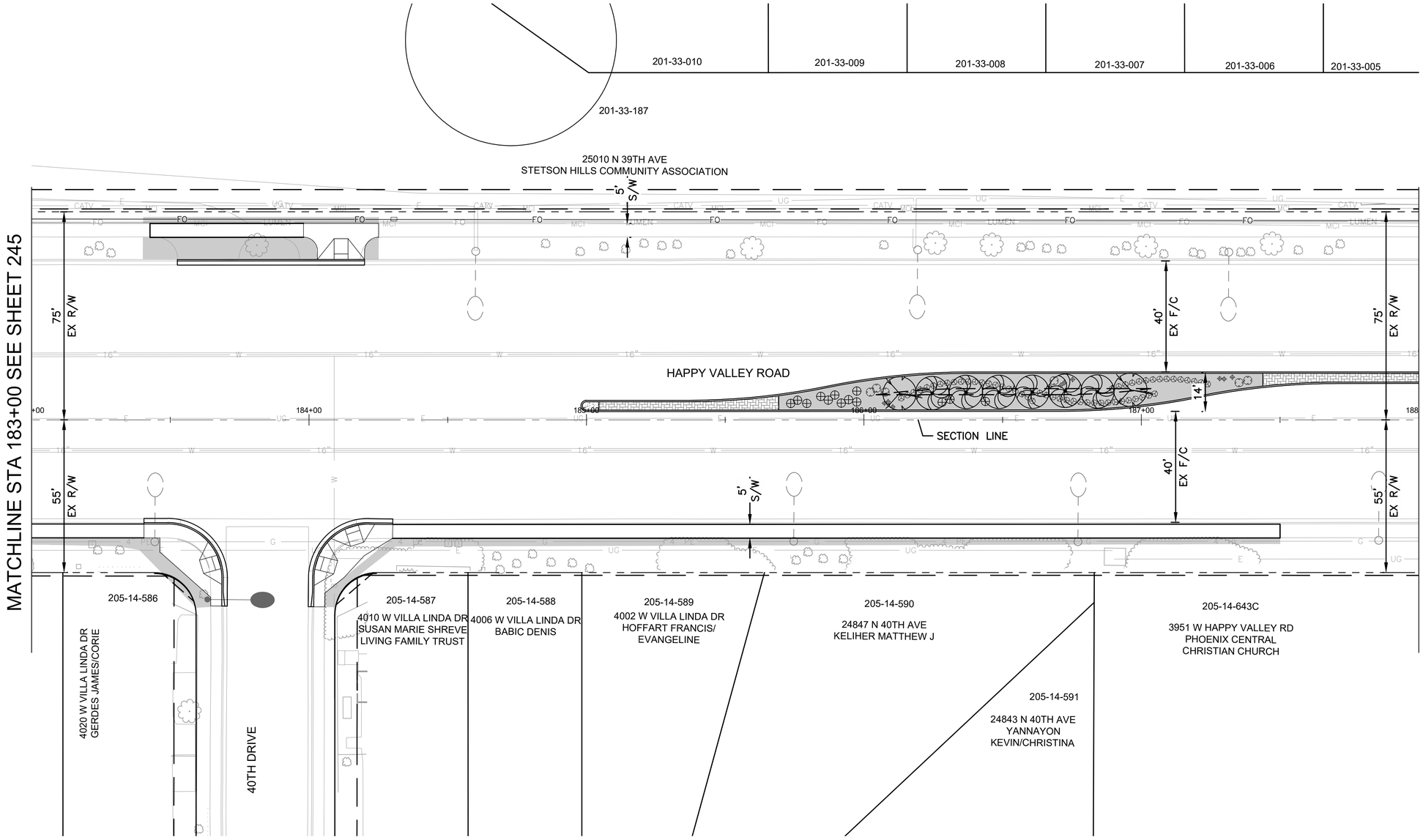
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.35
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			245 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437LP35.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	246	368	

05/2024 DATE:

AZTEC

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

Botanical Name / Common Name	Qty
TREES	
Acacia aneura Mulga	6
Acacia willardiana Palo Blanco	2
Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
Lysiloma thornberi Fern of the Desert	0
Parkinsonia microphyllum Foothill Palo Verde	0
Sophora secundiflora Texas Mountain Laurel	0
SHRUBS AND GROUNDCOVERS	
Asclepias subulata Desert Milkweed	0
Buddleja marrubiifolia Wooly Butterfly Bush	0
Calliandra eriophylla Pink Fairy Duster	0
Dalea greggii Trailing Indigo Bush	0
Euphorbia antisyphilitica Candelilla	13
Leucophyllum candidum 'Thunder Cloud'	0
Muhlenbergia rigens Deer Grass	0
Ruellia peninsularis Desert Ruellia	0
Salvia chamaedryoides Chaparral Sage	0
Tecoma X Sierra Apricot Esperanza	0
Psilotrophe cooperi Paper Flower	0
ACCENTS	
Agave palmeri Parry's Agave	0
Agave ocahui Ocahui Century Plant	6
Aloe X Blue Elf Blue Elf	10
Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	54
Inert Materials	
Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	418 Sq Yd
Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
Concrete Header	
Other	0 L.F.
Root Barrier - See Dtl 2, Dwg LP-4.01	
Existing Saguaro To Remain, Protect In Place	
Existing Saguaro, To Be Relocated Per Plans	
Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

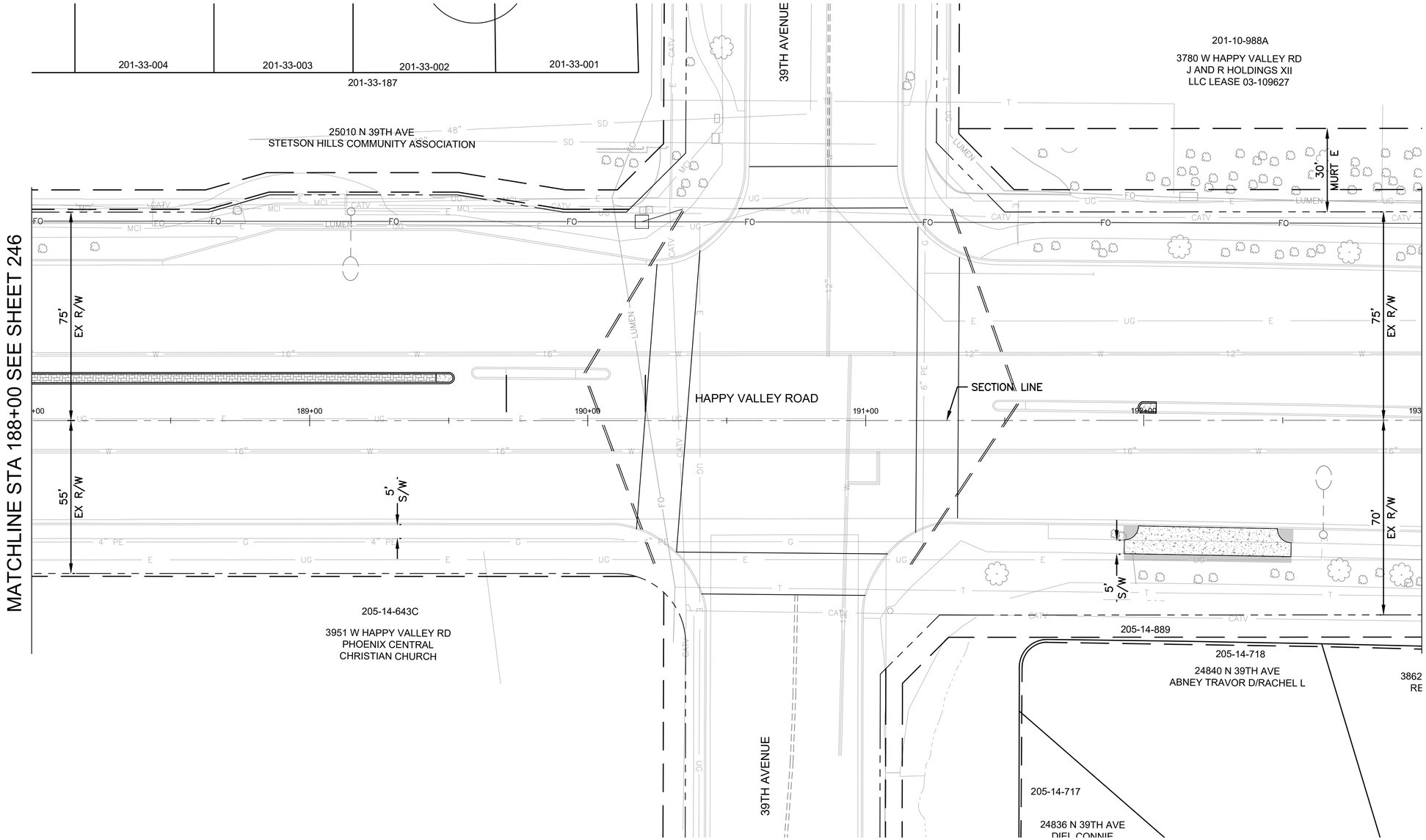
DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.36
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			246 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437LP36.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	247	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	0
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	
	ACCENTS	
	Agave palmeri Parry's Agave	0
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	0
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	0
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	19 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.37
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			247 OF 364

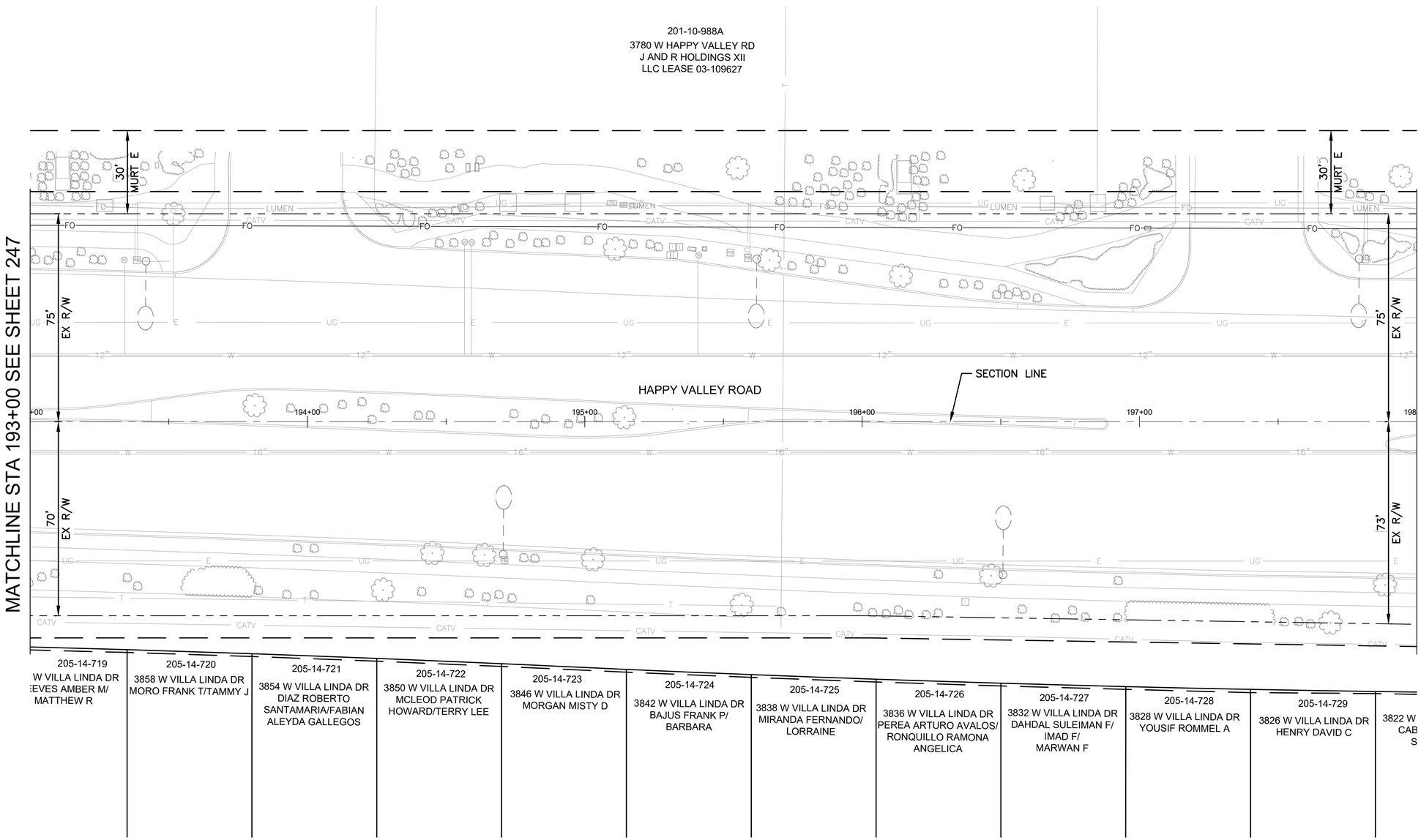
Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437LP37.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



NO LANDSCAPE WORK THIS SHEET

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	248	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	0
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	0
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	0
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	0
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	0 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place Existing Saguaro, To Be Relocated Per Plans Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.38
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			248 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437LP38.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	249	368	

05/2024
DATE:

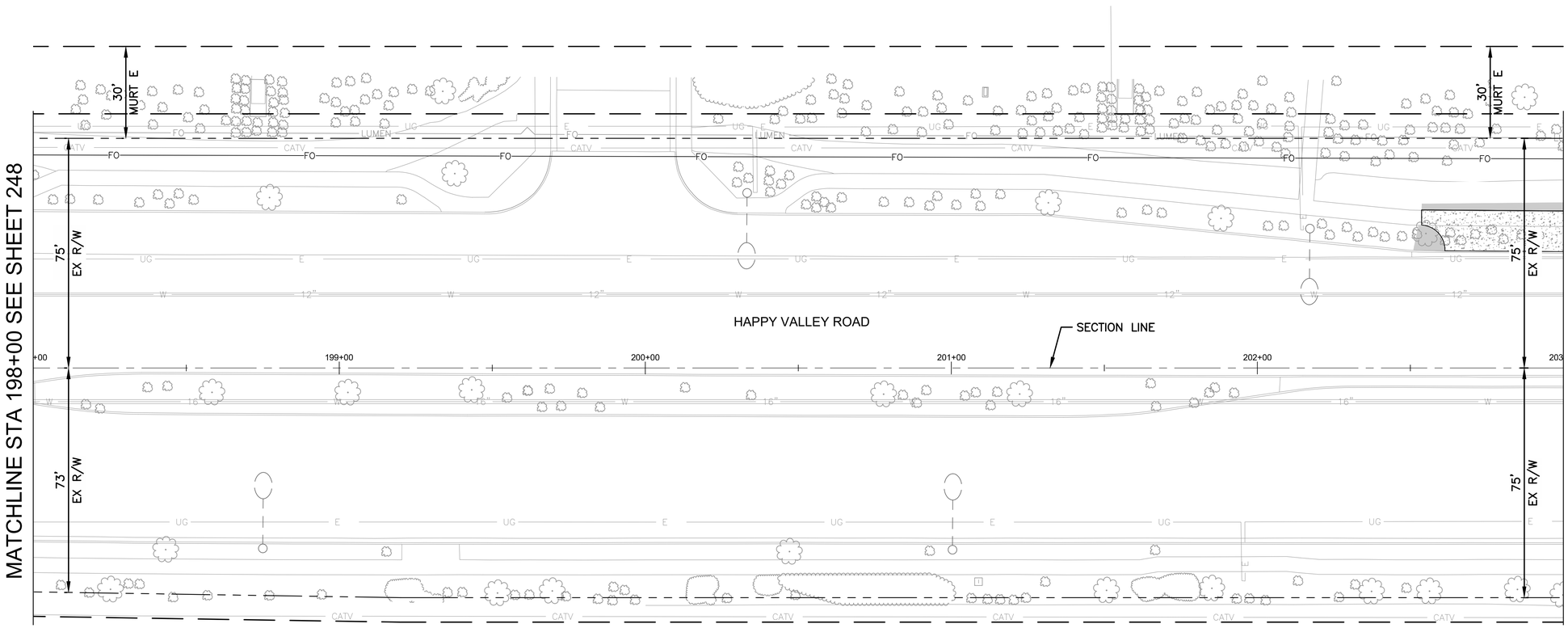
AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

201-10-988A
3780 W HAPPY VALLEY RD
J AND R HOLDINGS XII
LLC LEASE 03-109627



205-14-730	205-14-731	205-14-732	205-14-733	205-14-734	205-14-735	205-14-736	205-14-737	205-14-738	205-14-739
VILLA LINDA DR RAL EARL S/ UZETTE D	3818 W VILLA LINDA DR BECERRA ROSA	3812 W VILLA LINDA DR PRUITT MIKE/ JULIE TR	3806 W VILLA LINDA DR LI YU MING	3802 W VILLA LINDA DR FAASAMALA ELIZABETH	3726 W VILLA LINDA DR MULLER NATASHA A	3724 W VILLA LINDA DR 2018-1 1H BORROWER LP	3720 W VILLA LINDA DR LAMBERT REACE F	3716 W VILLA LINDA DR KUKURBA FAMILY TRUST	3712 W VILLA LINDA DR PARKS DANIEL R/ SHAW-PARKS DEANNA J

LANDSCAPE LEGEND

	Botanical Name Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	0
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	
	ACCENTS	
	Agave palmeri Parry's Agave	0
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	0
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	0
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	26 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.39
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			249 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437LP39.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

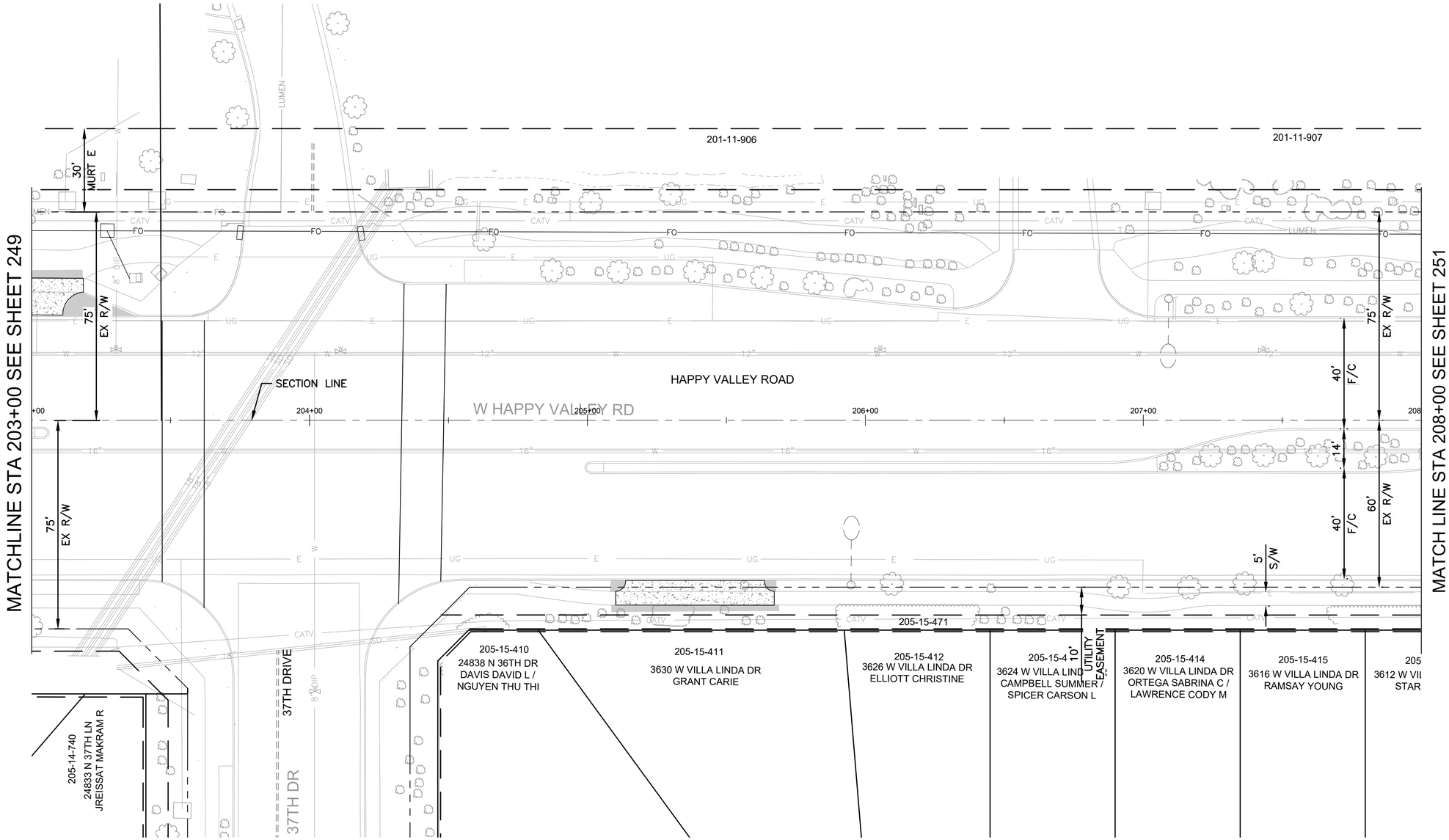
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	250	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	0
	Leucophyllum candidum 'Thunder Cloud' Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	0
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	0
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	0
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	32 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place Existing Saguaro, To Be Relocated Per Plans Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.40
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			250 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437LP40.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	251	368	

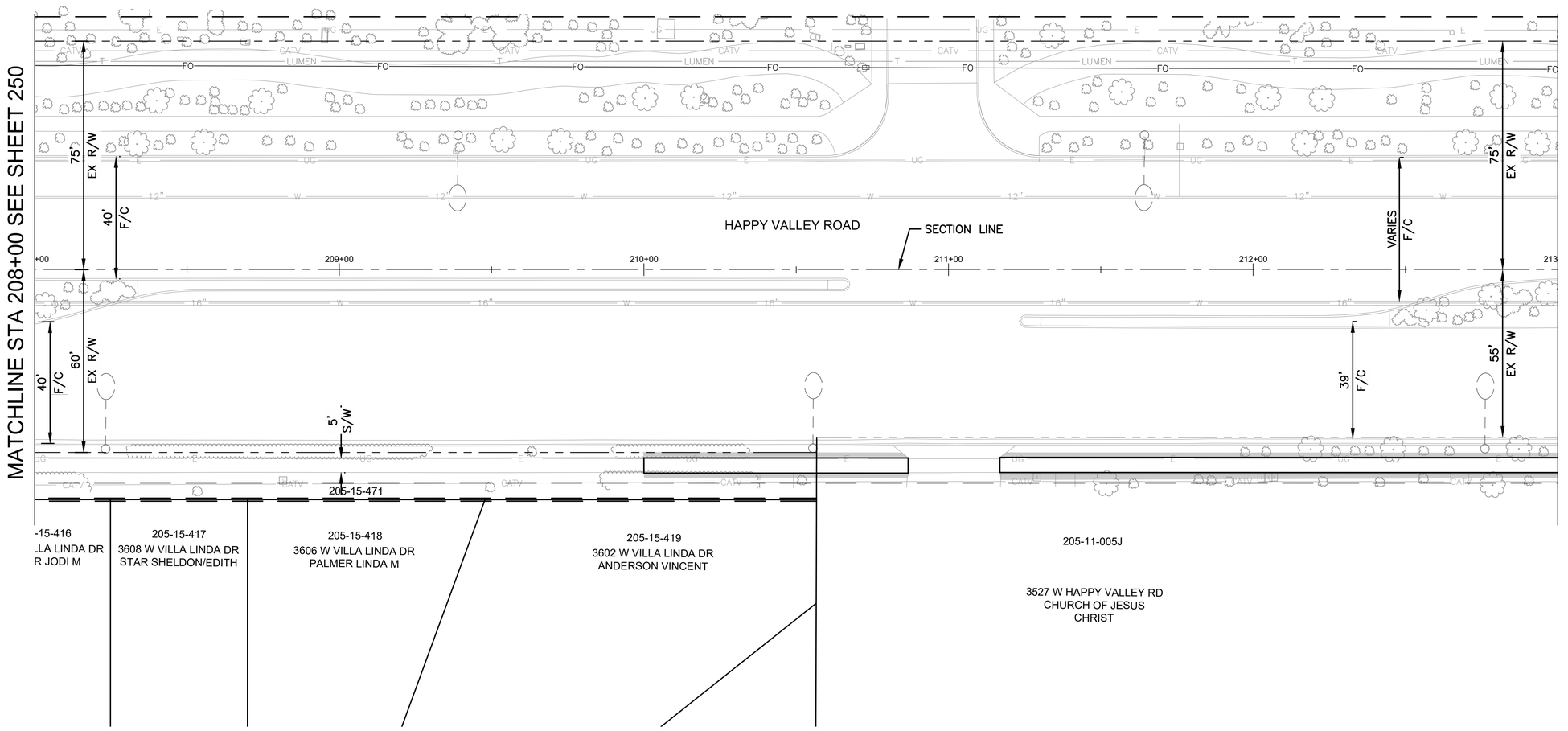
05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	0
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	
	ACCENTS	
	Agave palmeri Parry's Agave	0
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	0
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	0
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	103 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

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LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

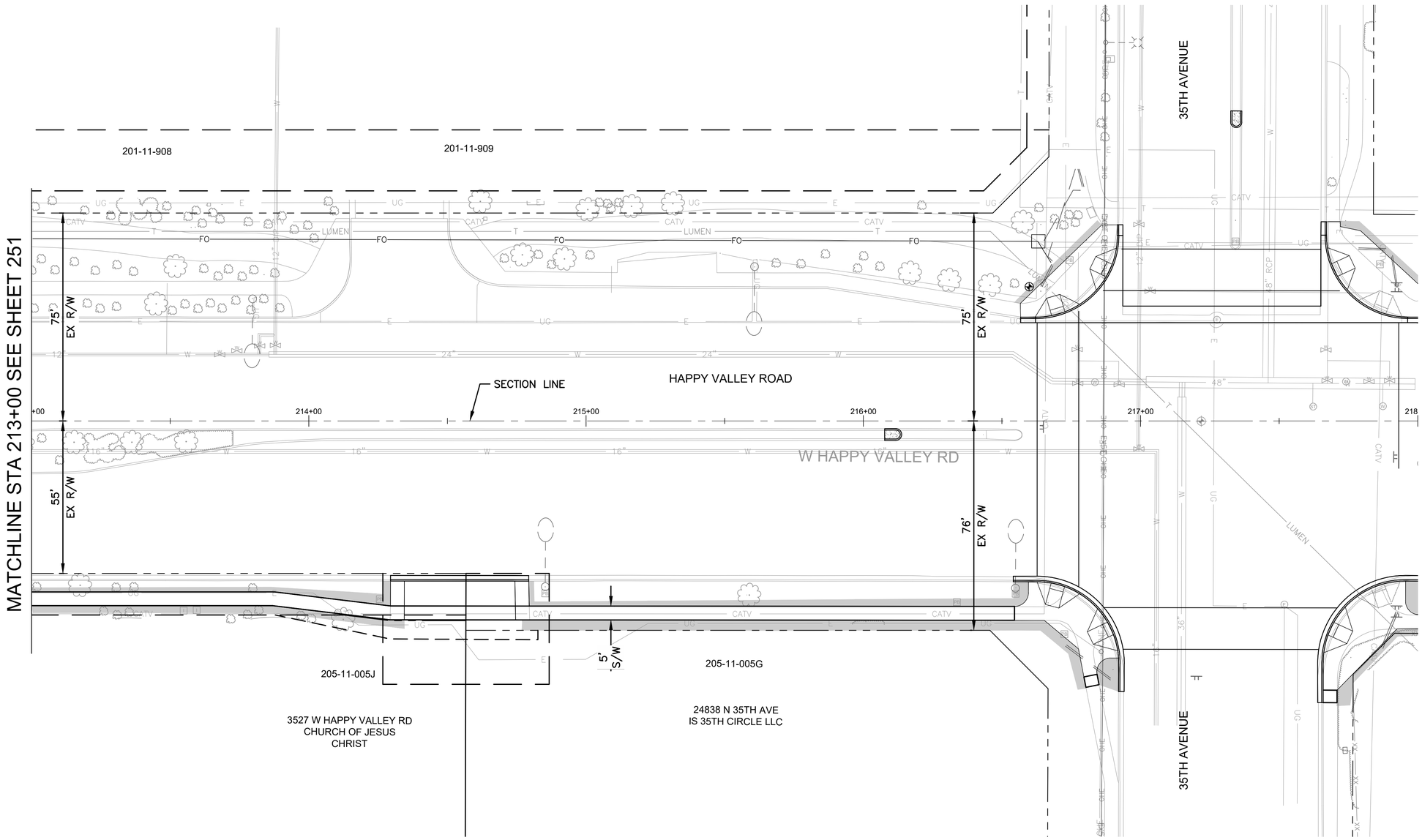
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.41
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			251 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437LP41.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	252	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	0
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	0
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	0
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	0
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ½" Screened Depth: 2"	259 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	0 Sq Yd
	Concrete Header	
	Other	0 L.F.
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–2.42
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			252 OF 364

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

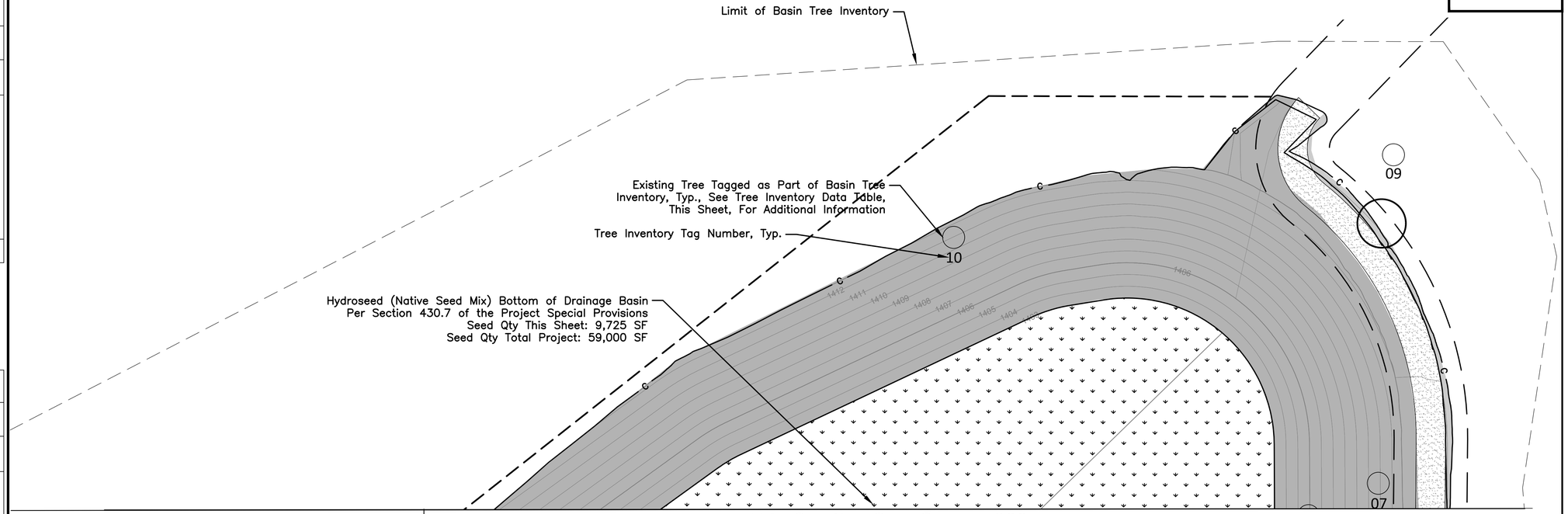
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437LP42.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



MATCHLINE SEE SHEET 221

MATCHLINE SEE SHEET 222

DRAINAGE BASIN TREE INVENTORY DATA TABLE

TAG NO.	COMMON NAME	BOTANICAL NAME	HEIGHT (FT)	WIDTH (FT)	CALIPER (IN)	HEALTH	DESIGNATION	REMARKS
1	MESQUITE	PROSOPIS VELUTINA	12	15	4	GOOD	DESTROY	
2	IRONWOOD	OLNEYA TESOTA	15	15	12	FAIR	DESTROY	A, CD, PF
3	IRONWOOD	OLNEYA TESOTA	8	8	8	POOR	DESTROY	PF, PX, US
4	IRONWOOD	OLNEYA TESOTA	4	8	6	POOR	DESTROY	PF, PX, US
5	MESQUITE	PROSOPIS VELUTINA	8	8	4	GOOD	DESTROY	
6	IRONWOOD	OLNEYA TESOTA	20	15	12	POOR	DESTROY	D, DW, PH
7	MESQUITE	PROSOPIS VELUTINA	12	15	8	GOOD	DESTROY	
8	MESQUITE	PROSOPIS VELUTINA	12	12	8	GOOD	DESTROY	
9	IRONWOOD	OLNEYA TESOTA	18	15	18	POOR	DESTROY	D, DW, PH
10	IRONWOOD	OLNEYA TESOTA	22	18	12	POOR	DESTROY	DW, PH
11	IRONWOOD	OLNEYA TESOTA	25	25	2	POOR	DESTROY	DW, PH
12	IRONWOOD	OLNEYA TESOTA	22	25	18	FAIR	DESTROY	DW, PF
13	IRONWOOD	OLNEYA TESOTA	20	16	8	POOR	DESTROY	DW, PF, PX
14	IRONWOOD	OLNEYA TESOTA	8	5	6	POOR	DESTROY	DW, PF
15	IRONWOOD	OLNEYA TESOTA	12	8	4	GOOD	DESTROY	
16	FISH HOOK BARREL	FEROCACTUS WISLIZENI	3	1.5	18	GOOD	MOVE ONCE	
17	PALO VERDE	PARKINSONIA MICROPHYLLA	30	25	24	FAIR	DESTROY	A, PF, DW, S
18	PALO VERDE	PARKINSONIA MICROPHYLLA	8	6	4	FAIR	DESTROY	PF,PX, US
19	MESQUITE	PROSOPIS VELUTINA	10	18	6	GOOD	DESTROY	

REMARKS	
A	AGE, TOO OLD
CD	CAMBIUM DAMAGE
D	DYING
DW	DEADWOOD
PH	POOR HELATH
PF	POOR FORM, LEANING
PX	PROXIMITY TO ANOTHER TREE
PIP	PROTECT IN PLACE

NOTES:
THE EXTENT OF THE TREE INVENTORY IS LIMITED TO THE DRAINAGE BASIN ON SHEETS LP-2.12, LP-2.13, AND LP-2.43

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Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	253	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

CERTIFICATE NO. 27437 STEVEN E. LOHIDE — Date Signed: 05/24/2024

LANDSCAPE LEGEND

	Botanical Name / Common Name	Qty
	TREES	
	Acacia aneura Mulga	0
	Acacia willardiana Palo Blanco	0
	Chilopsis linearis 'Lucretia Hamilton' Desert Willow Hybrid	0
	Lysiloma thornberi Fern of the Desert	0
	Parkinsonia microphyllum Foothill Palo Verde	0
	Sophora secundiflora Texas Mountain Laurel	0
	SHRUBS AND GROUNDCOVERS	
	Asclepias subulata Desert Milkweed	0
	Buddleja marrubiifolia Wooly Butterfly Bush	0
	Calliandra eriophylla Pink Fairy Duster	0
	Dalea greggii Trailing Indigo Bush	0
	Euphorbia antisyphilitica Candelilla	0
	Leucophyllum candidum 'Thunder Cloud'	0
	Muhlenbergia rigens Deer Grass	0
	Ruellia peninsularis Desert Ruellia	0
	Salvia chamaedryoides Chaparral Sage	0
	Tecoma X Sierra Apricot Esperanza	0
	Psilotrophe cooperi Paper Flower	0
	ACCENTS	
	Agave palmeri Parry's Agave	0
	Agave ocahui Ocahui Century Plant	0
	Aloe X Blue Elf Blue Elf	0
	Hesperaloe parviflora 'Perpa' Brakelights Red Hesperaloe	0
	Inert Materials	
	Decomposed Granite Color: Santa Fe Gold Size: ¾" Screened Depth: 2"	32 Sq Yd
	Riprap Color: Santa Fe Gold Size: 3" to 6" Depth: 6"	15,605 Sq Ft
	Concrete Header	0 L.F.
	Other	
	Root Barrier - See Dtl 2, Dwg LP-4.01	
	Existing Saguaro To Remain, Protect In Place	
	Existing Saguaro, To Be Relocated Per Plans	
	Relocated Saguaro - See Dtl 3, Dwg LP-4.02	
	Existing Tree, Inventoried and Tagged, See Inventory Table For Additional Information.	

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LANDSCAPE PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP | DES:CDW/SEL | CK: SEL
DATE: 05/24 | DATE: 05/24 | DATE: 05/24

DWG. NO. LP–2.43

SCALE: 1" = 20' HORIZONTAL

253 OF 364

SHEET NAME: ST85100437LP43.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

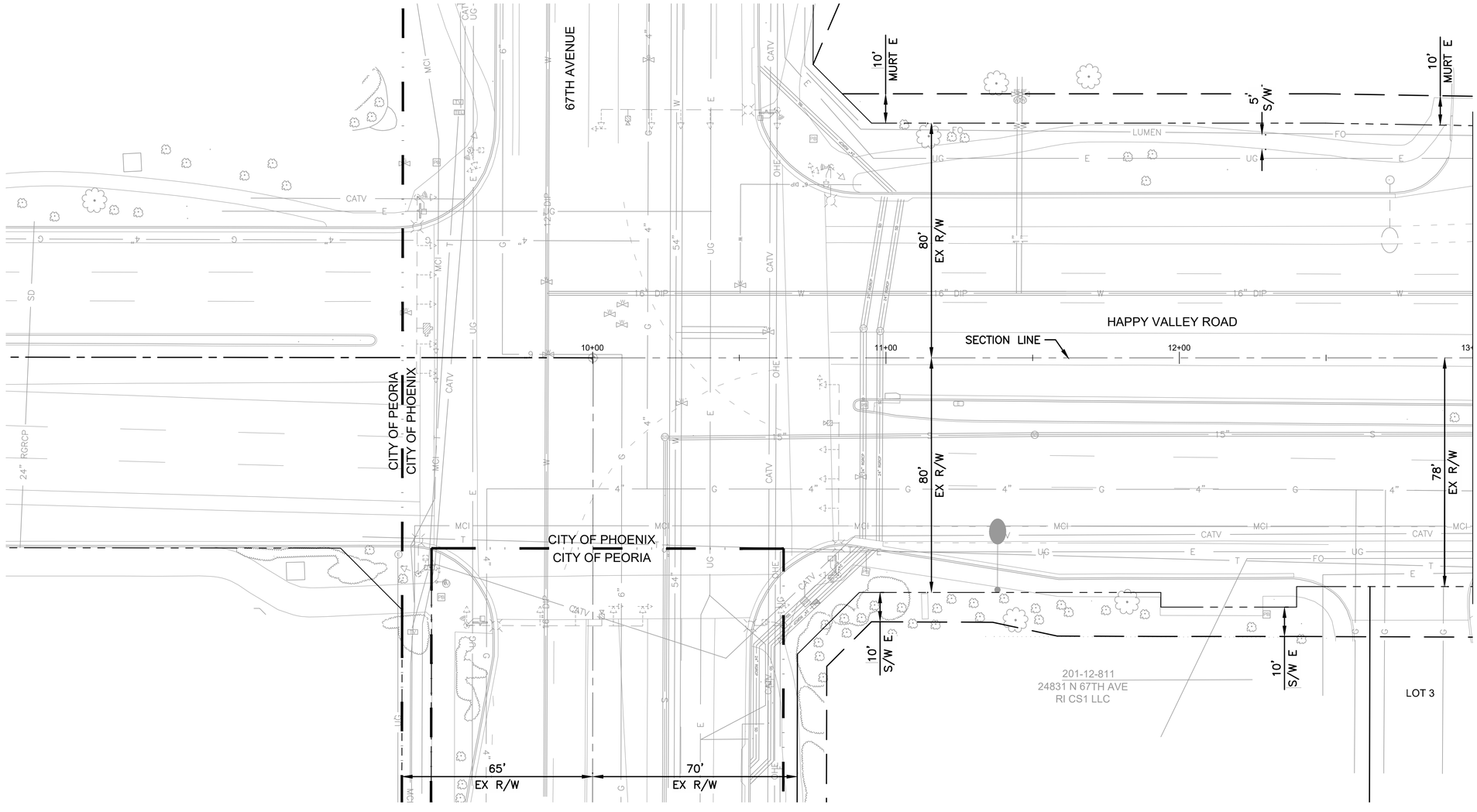
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



NO IRRIGATION WORK THIS SHEET

Contact Arizona 811 at least two full working days before you begin excavation
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F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	254	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	0 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	0 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	0 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 1"
- Valve ID (Controller, Valve #, Type)
- Valve Flow in G.P.M.
- Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.01
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			254 OF 364

SHEET NAME: ST85100437IR01.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

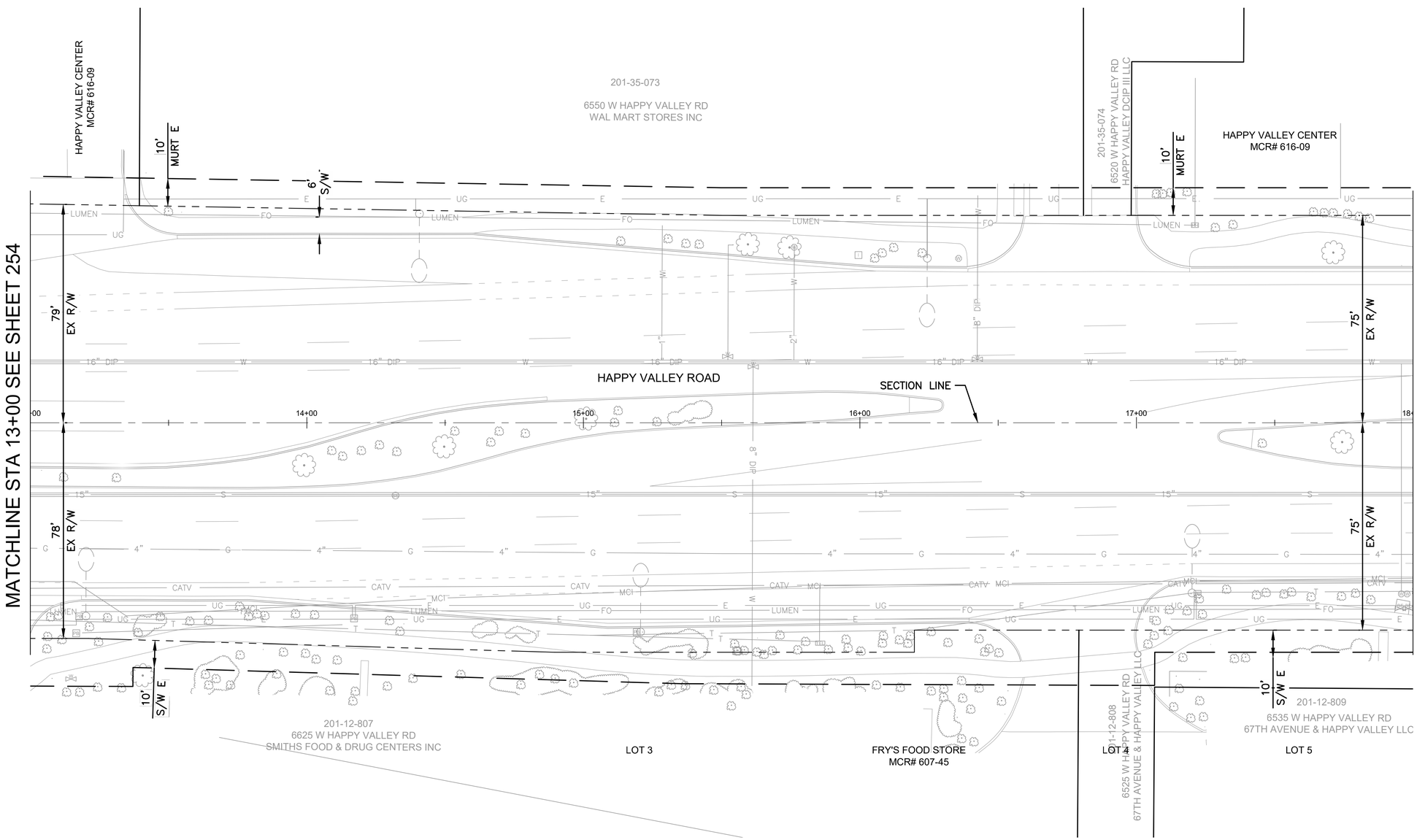
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



NO IRRIGATION WORK THIS SHEET

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	255	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — CERTIFICATE NO. — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	0 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	0 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	0 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 — 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

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IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–3.02
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			255 OF 364

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SHEET NAME: ST85100437IR02.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

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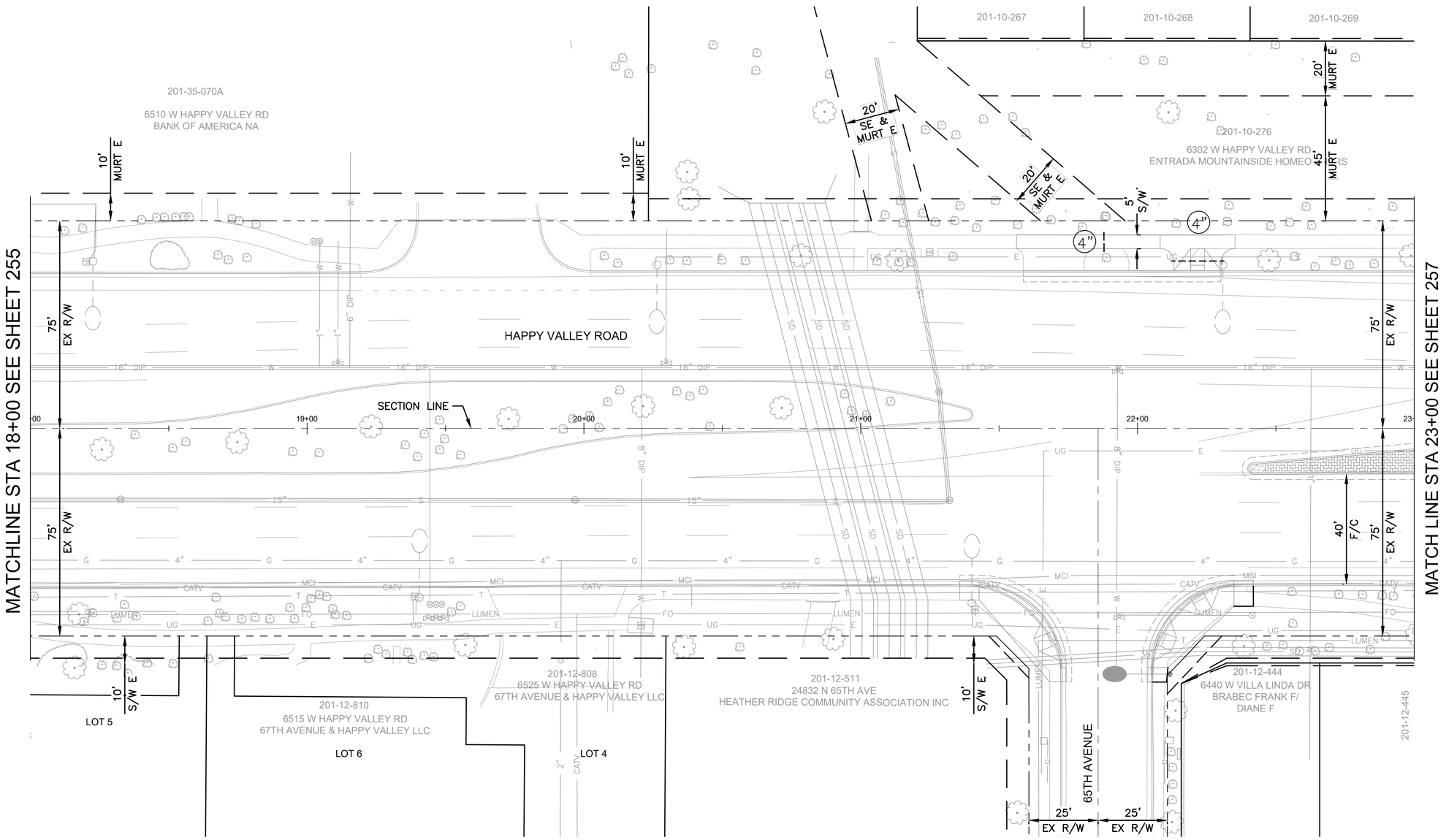
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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	256	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	0 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	0 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	26 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 1"
- Valve ID (Controller, Valve #, Type)
- Valve Flow in G.P.M.
- Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

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IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–3.03
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			256 OF 364

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SHEET NAME: ST85100437IR03.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

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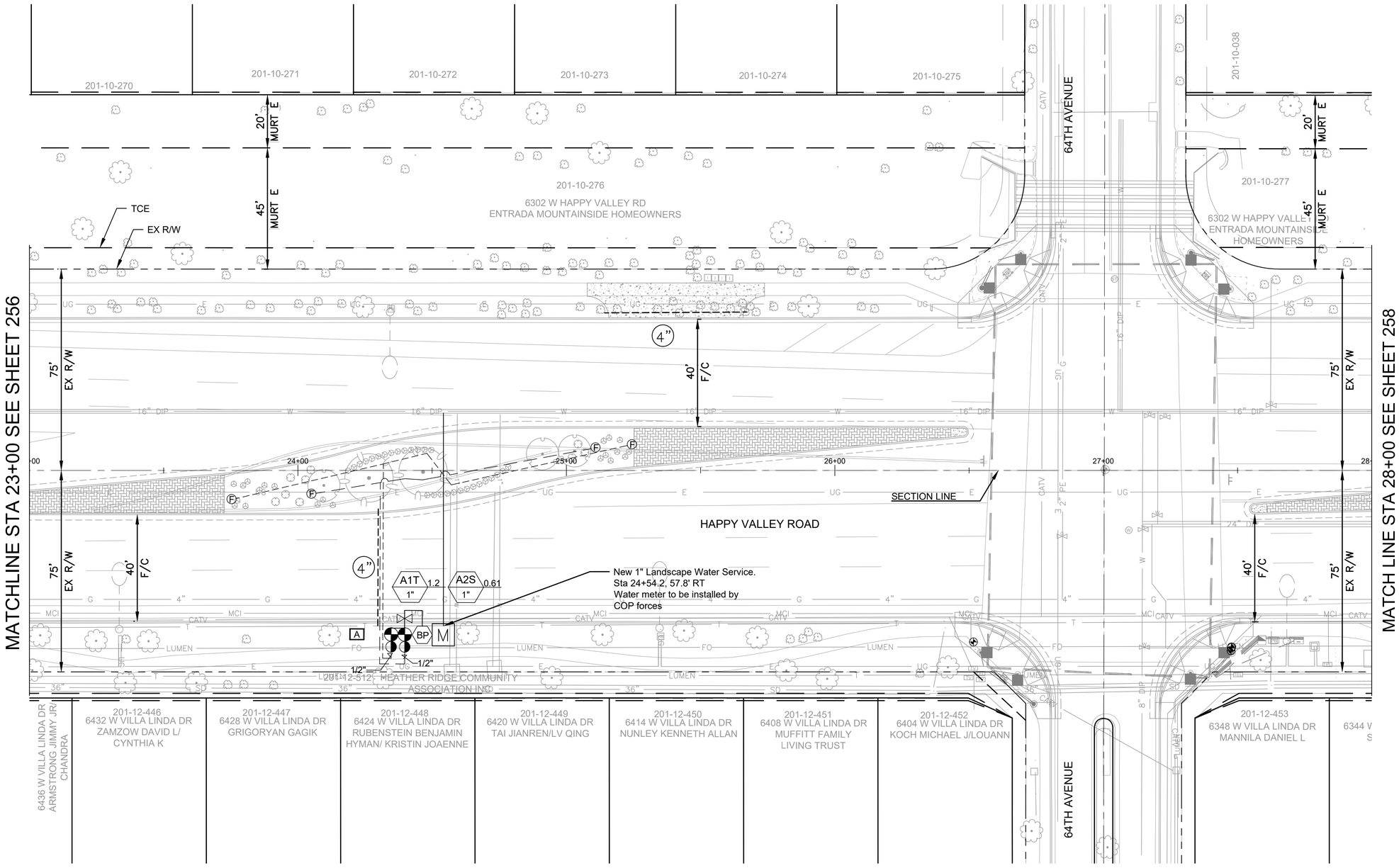
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	257	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — CERTIFICATE NO. — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	1 Ea
	Remote Control Valve Assembly (Size per Plan)	2 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	2 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	1 Ea
F	Flush Valve Assembly	4 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	19 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	1 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	25 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	426 LF
4"	Sch 40 PVC Sleeve, 4"	96 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

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IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

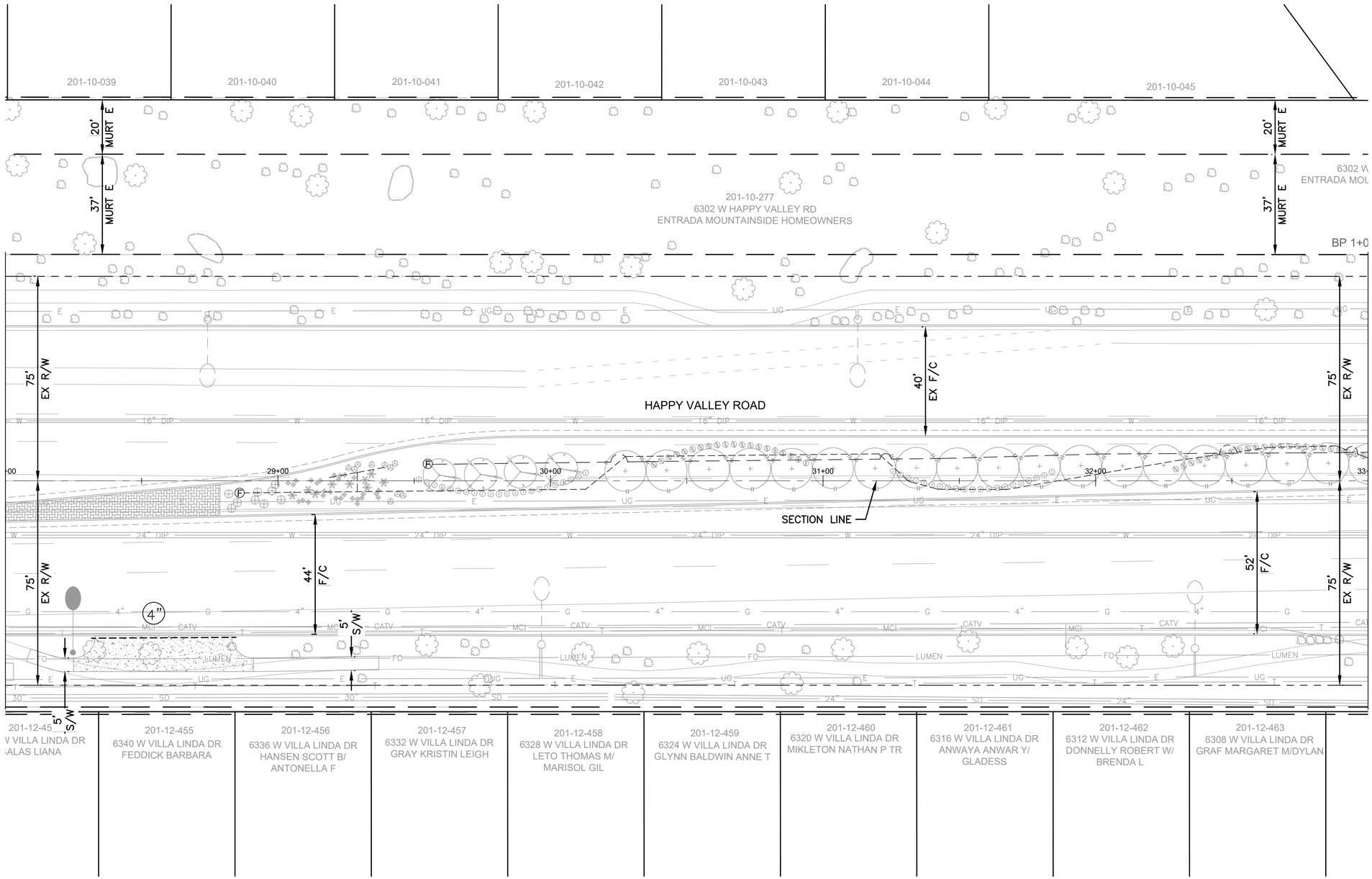
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–3.04
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			257 OF 364

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SHEET NAME: ST85100437IR04.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	258	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	2 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	56 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	806 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	53 LF
	Sch 40 PVC Sleeve, 6"	0 LF
D1T 00.0 1"	Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size	

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.05
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			258 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

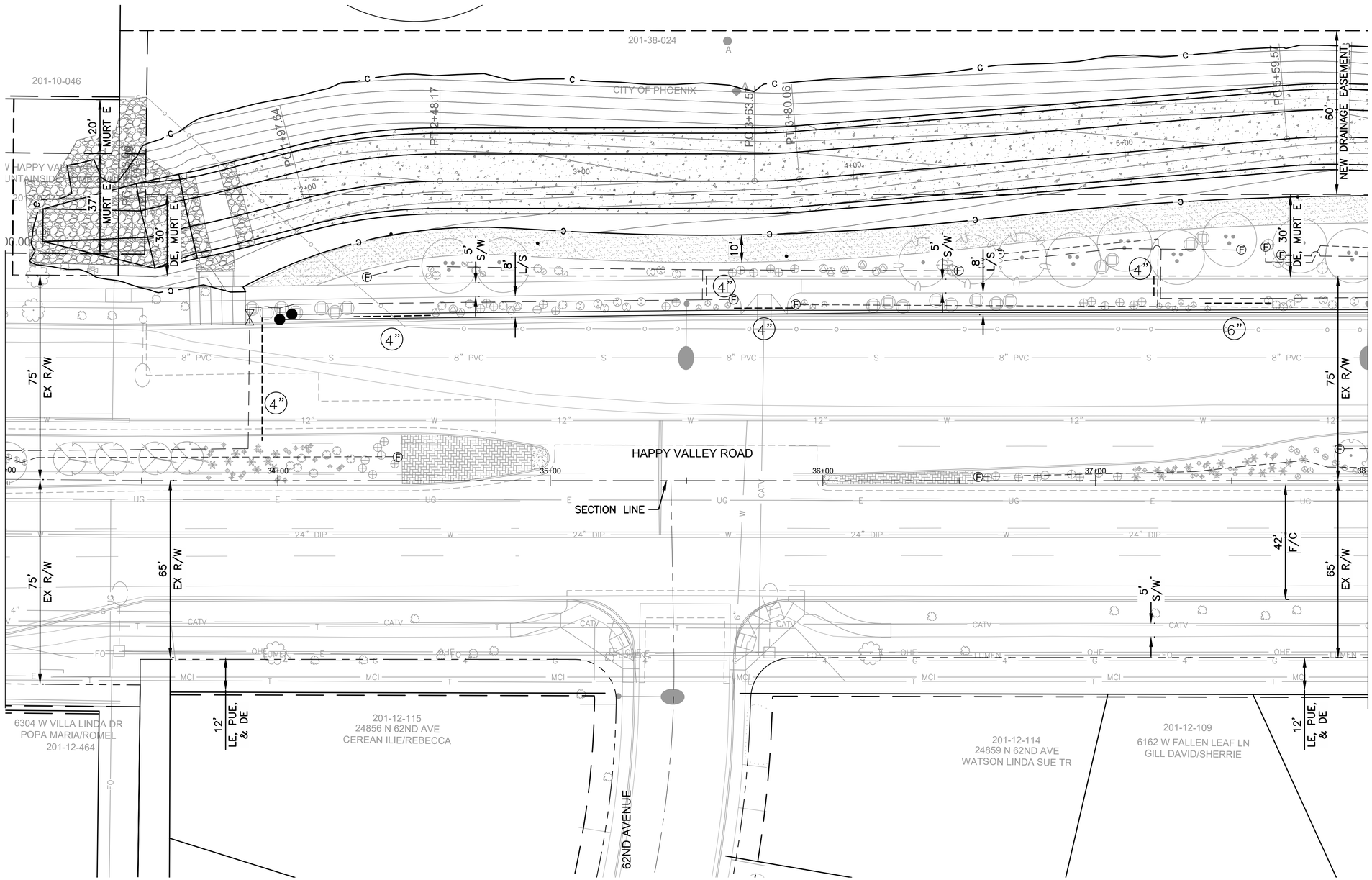
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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437IR05.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	259	368	

05/2024 DATE:

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

AZTEC TYPSA

27437 STEVEN E. LOHIDE — CERTIFICATE NO. — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	2 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	1 Ea
F	Flush Valve Assembly	12 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	87 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	396 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	400 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	1,393 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	108 LF
	Sch 40 PVC Sleeve, 6"	24 LF

D1T 00.0 — Valve ID (Controller, Valve #, Type)
1" — Valve Flow in G.P.M.
Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.06
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			259 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

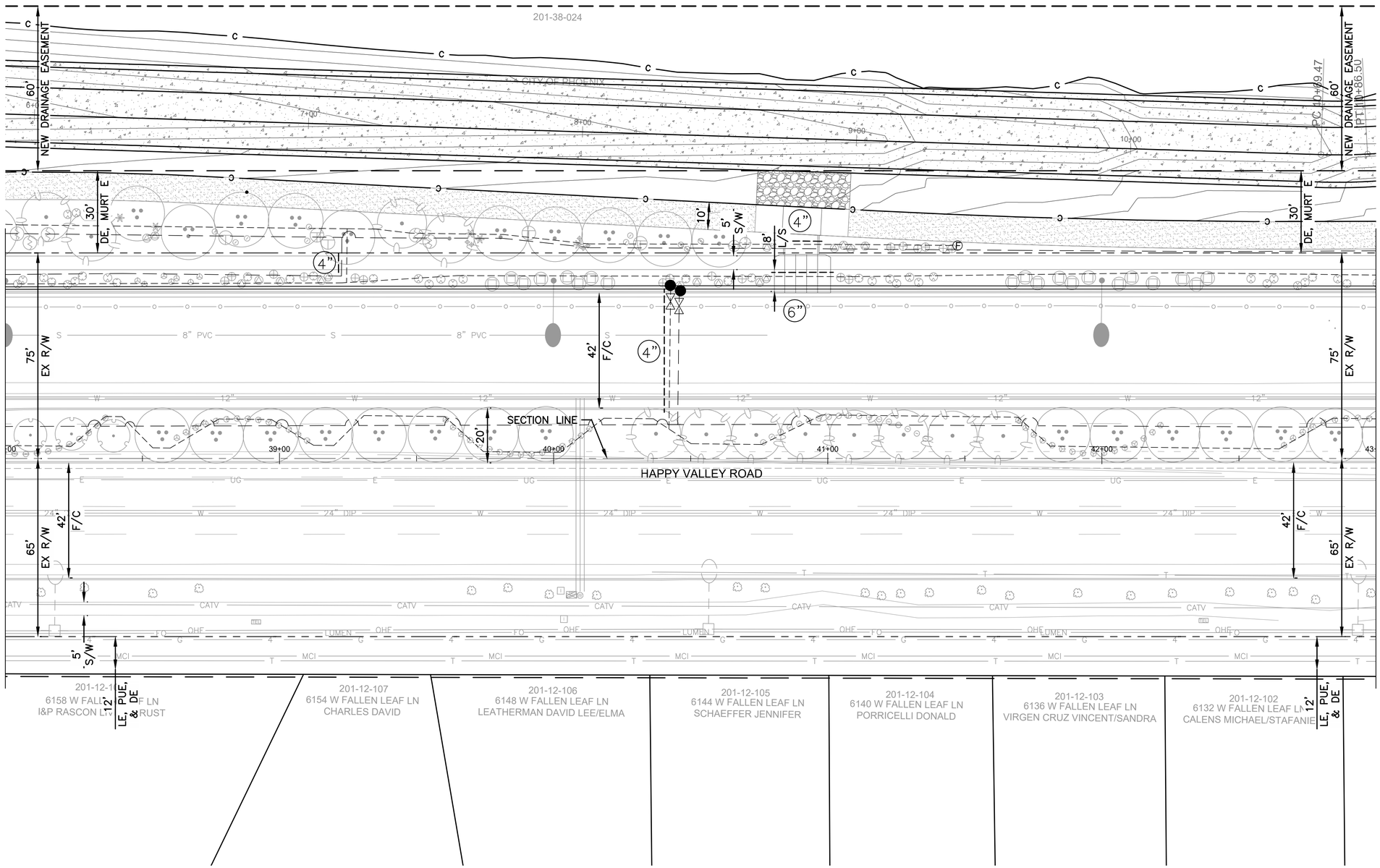
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437IRO6.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	260	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	2 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	2 Ea
F	Flush Valve Assembly	1 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	123 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	500 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	500 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	2,678 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	67 LF
	Sch 40 PVC Sleeve, 6"	23 LF

D1T 00.0 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

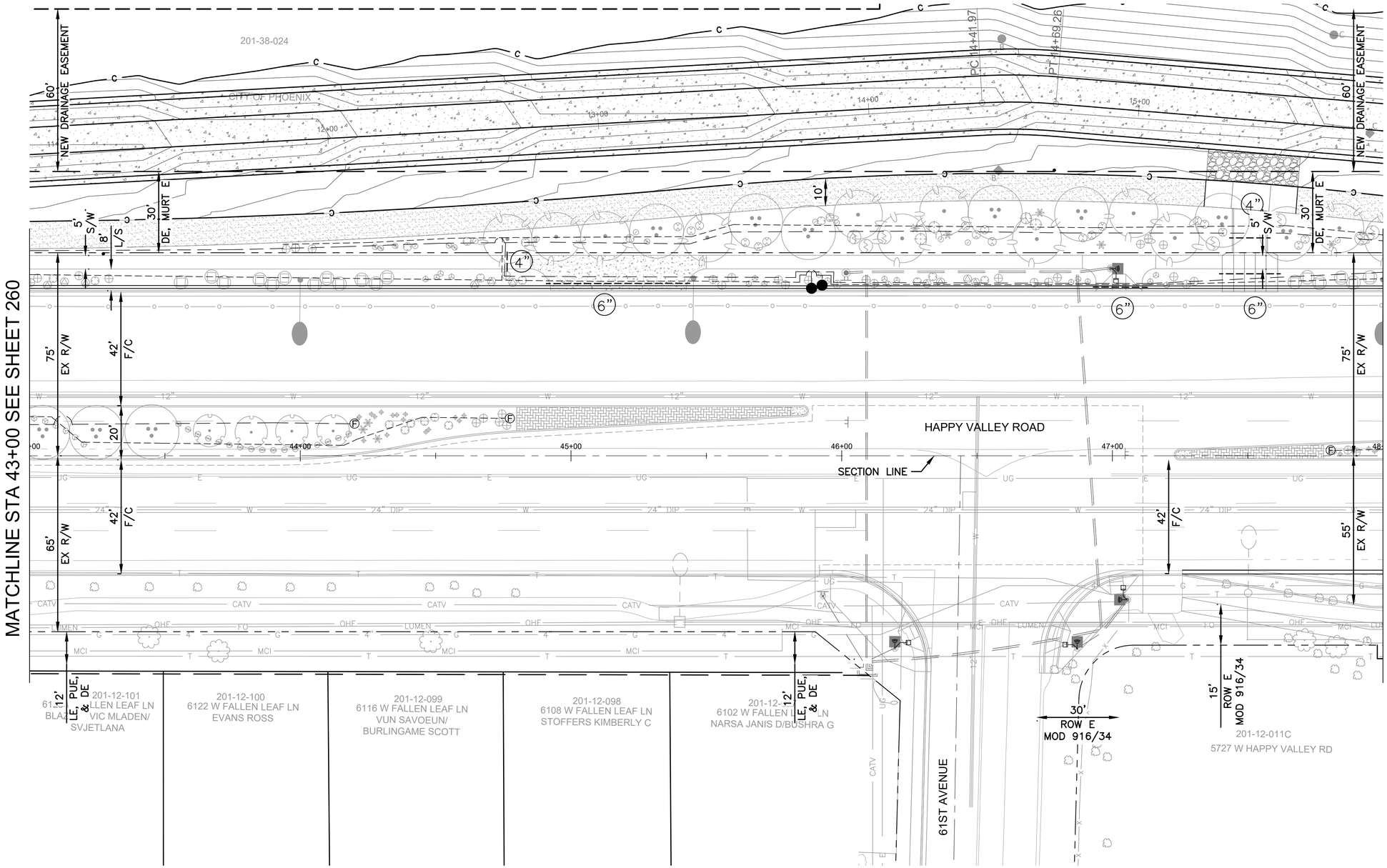
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.07
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			260 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437IR07.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	261	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — CERTIFICATE NO. — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	2 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	3 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	101 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	500 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	500 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	2,105 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	22 LF
	Sch 40 PVC Sleeve, 6"	95 LF

D1T 00.0 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.08
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			261 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

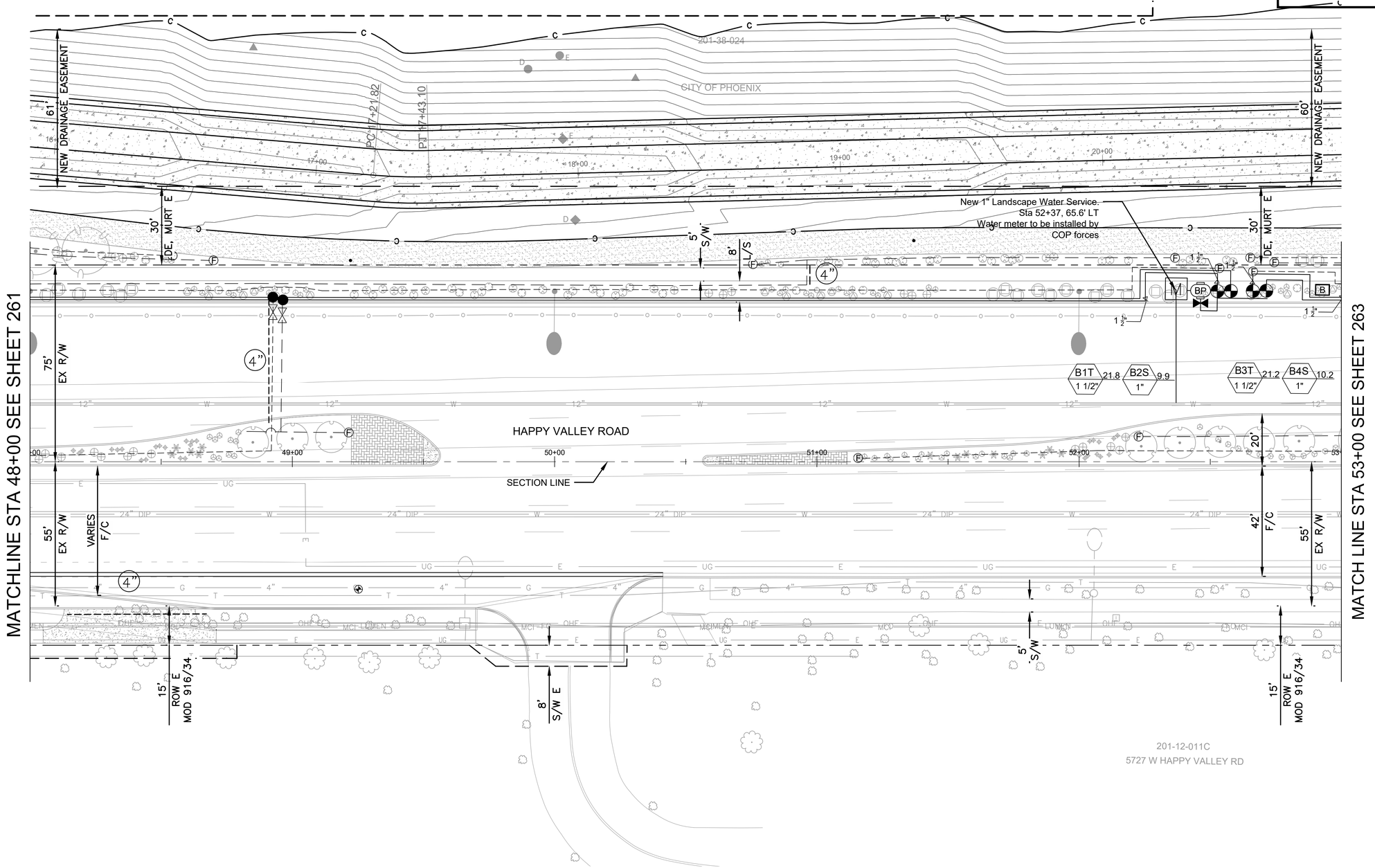
REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437IR08.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	262	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — CERTIFICATE NO. — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — Date Signed: 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	1 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	1 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	4 Ea
	Pressure Regulator Assembly-1"	2 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	1 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	2 Ea
F	Flush Valve Assembly	10 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	94 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	1 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	43 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	512 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	514 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	1,638 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	107 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 1" 00.0 — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

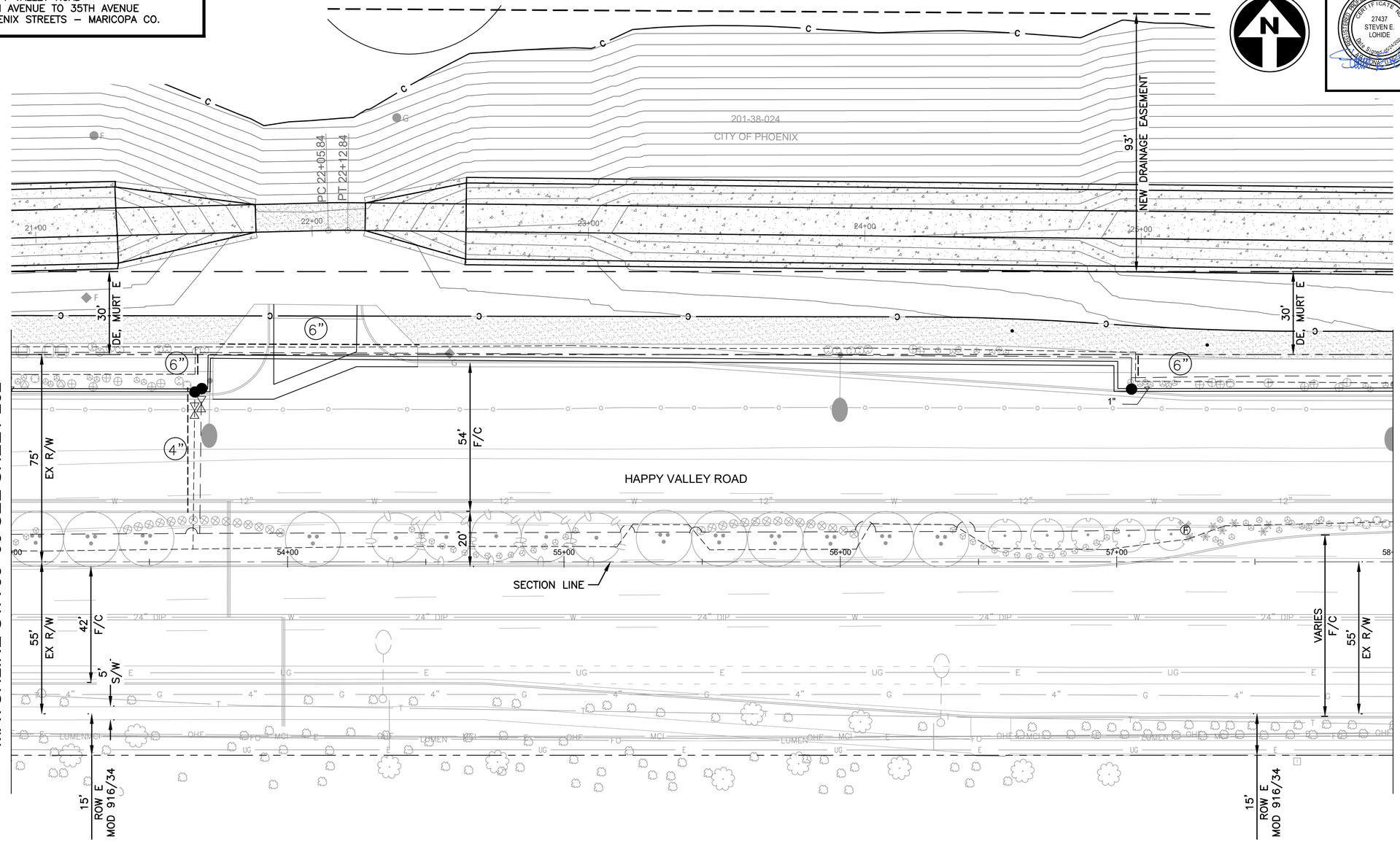
DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–3.09
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			262 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
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REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437IR09.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	263	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	3 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	2 Ea
F	Flush Valve Assembly	1 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	72 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	622 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	421 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	2,163 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4" Sch 40 PVC Sleeve, 6"	45 LF 86 LF

D1T 00.0 — Valve ID (Controller, Valve #, Type)
1" — Valve Flow in G.P.M. / Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

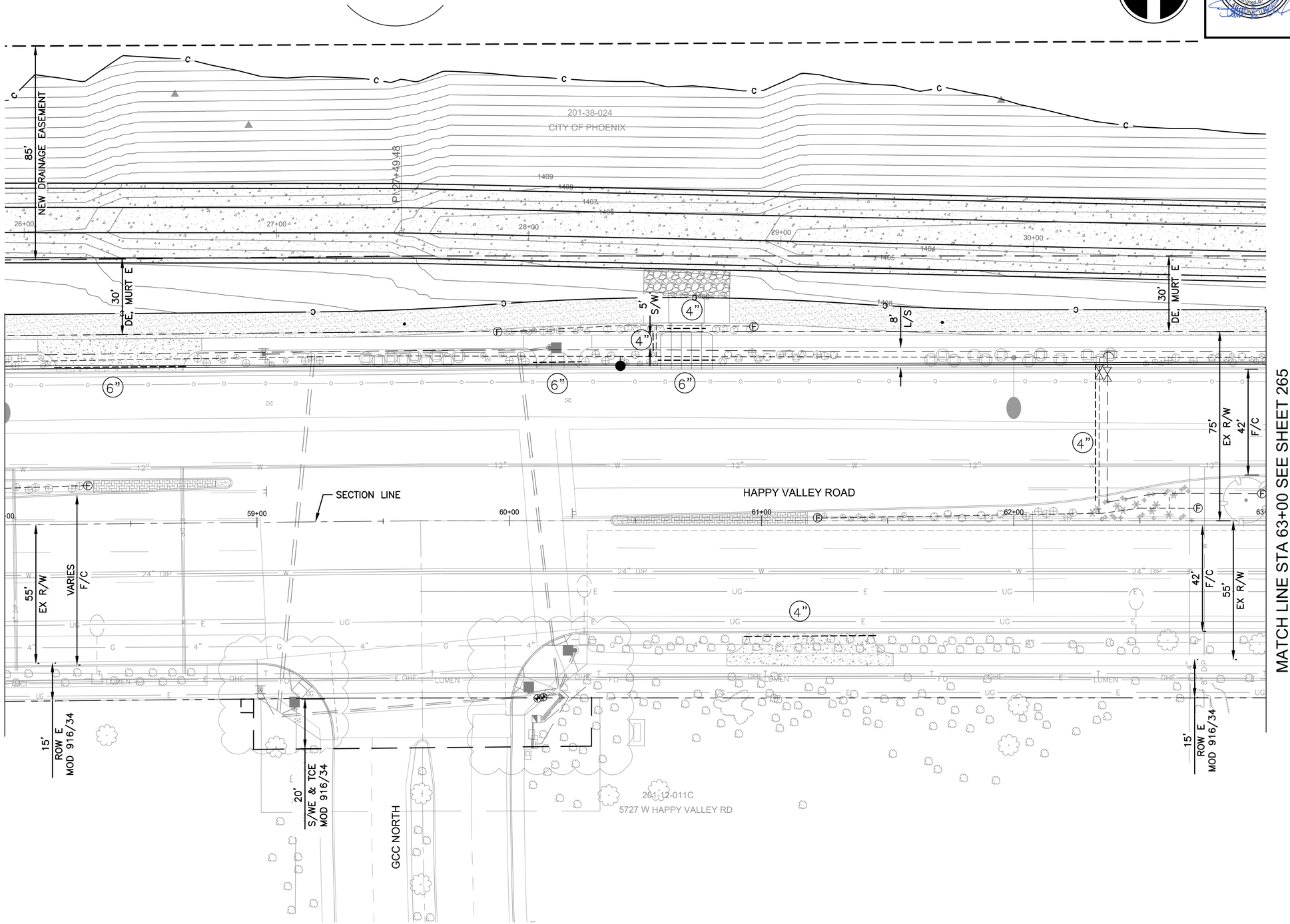
DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.10
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			263 OF 364

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REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437IR10.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	264	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — CERTIFICATE NO. — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	1 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	2 Ea
F	Flush Valve Assembly	6 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	59 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	991 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	1,483 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	128 LF
	Sch 40 PVC Sleeve, 6"	94 LF

D1T 00.0 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.11
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			264 OF 364

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

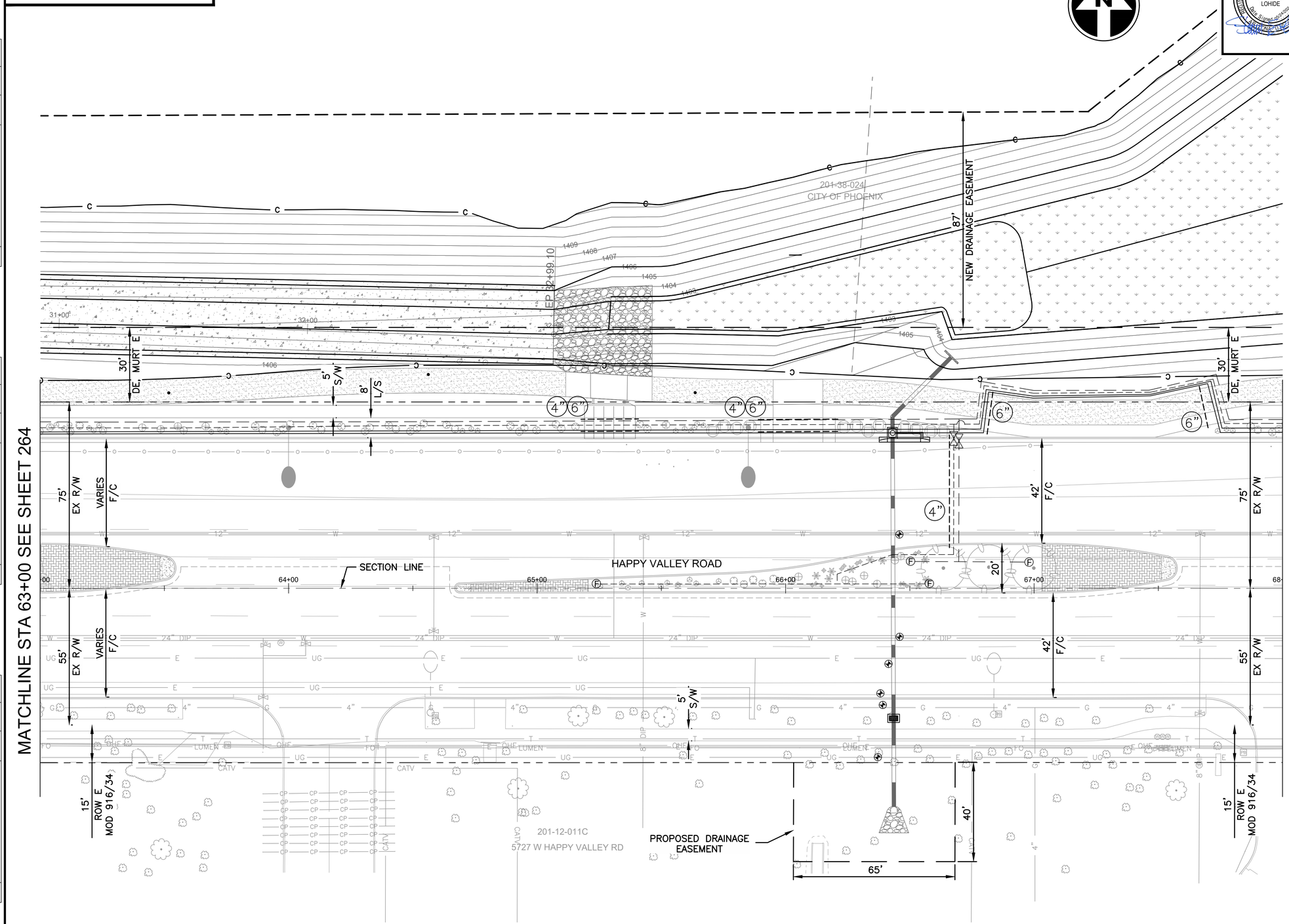
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437IR11.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	265	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

CERTIFICATE NO. 27437 STEVEN E. LOHIDE — Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	2 Ea
F	Flush Valve Assembly	4 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	47 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	1,060 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	1,669 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	100 LF
	Sch 40 PVC Sleeve, 6"	89 LF

D1T 00.0 / 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.12
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			265 OF 364

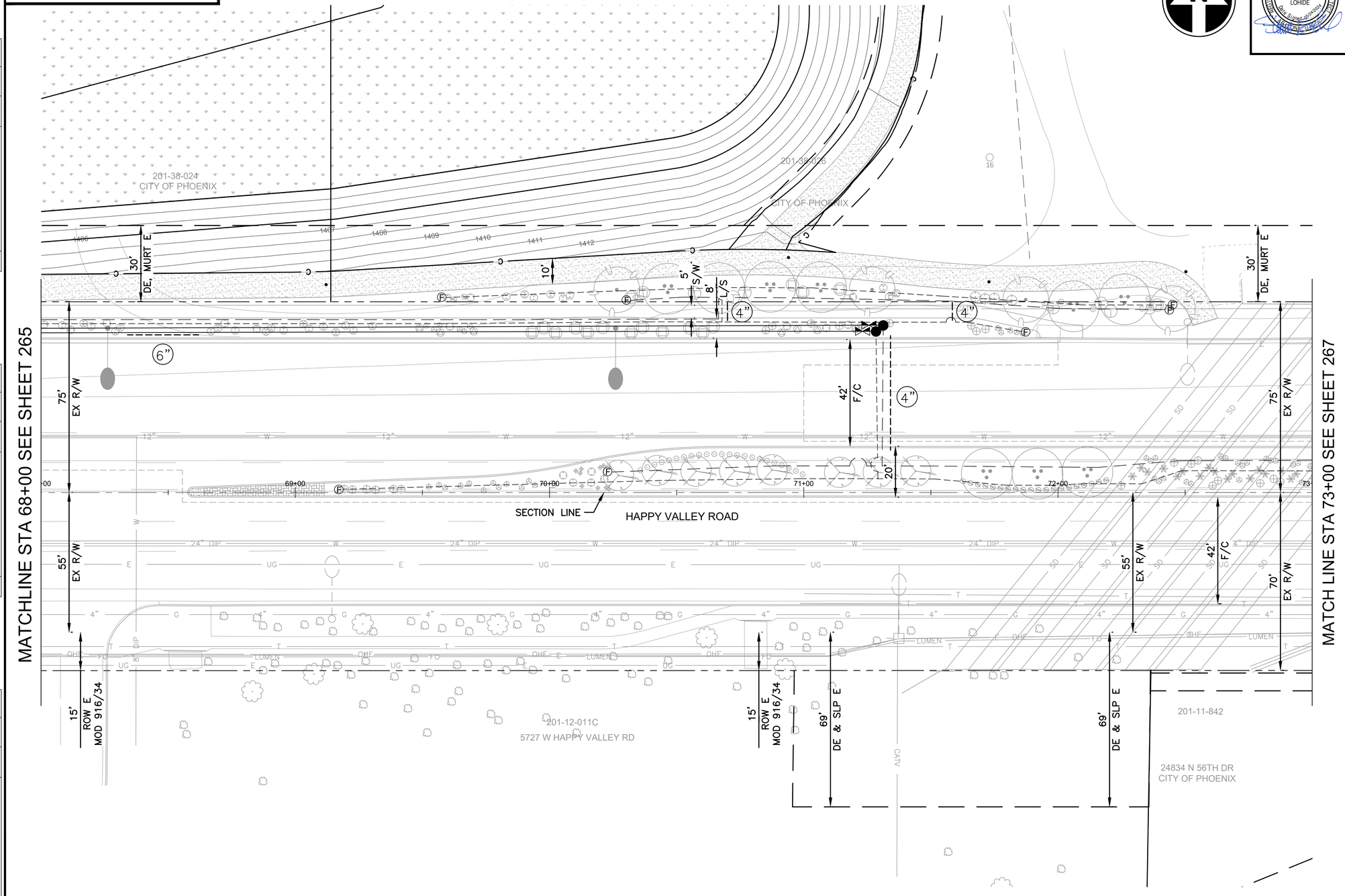
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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437IR12.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	266	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	2 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	2 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	7 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	95 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	659 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	1,951 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	59 LF
	Sch 40 PVC Sleeve, 6"	28 LF

D1T 00.0 — Valve ID (Controller, Valve #, Type)
1" — Valve Flow in G.P.M.
Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.13
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			266 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

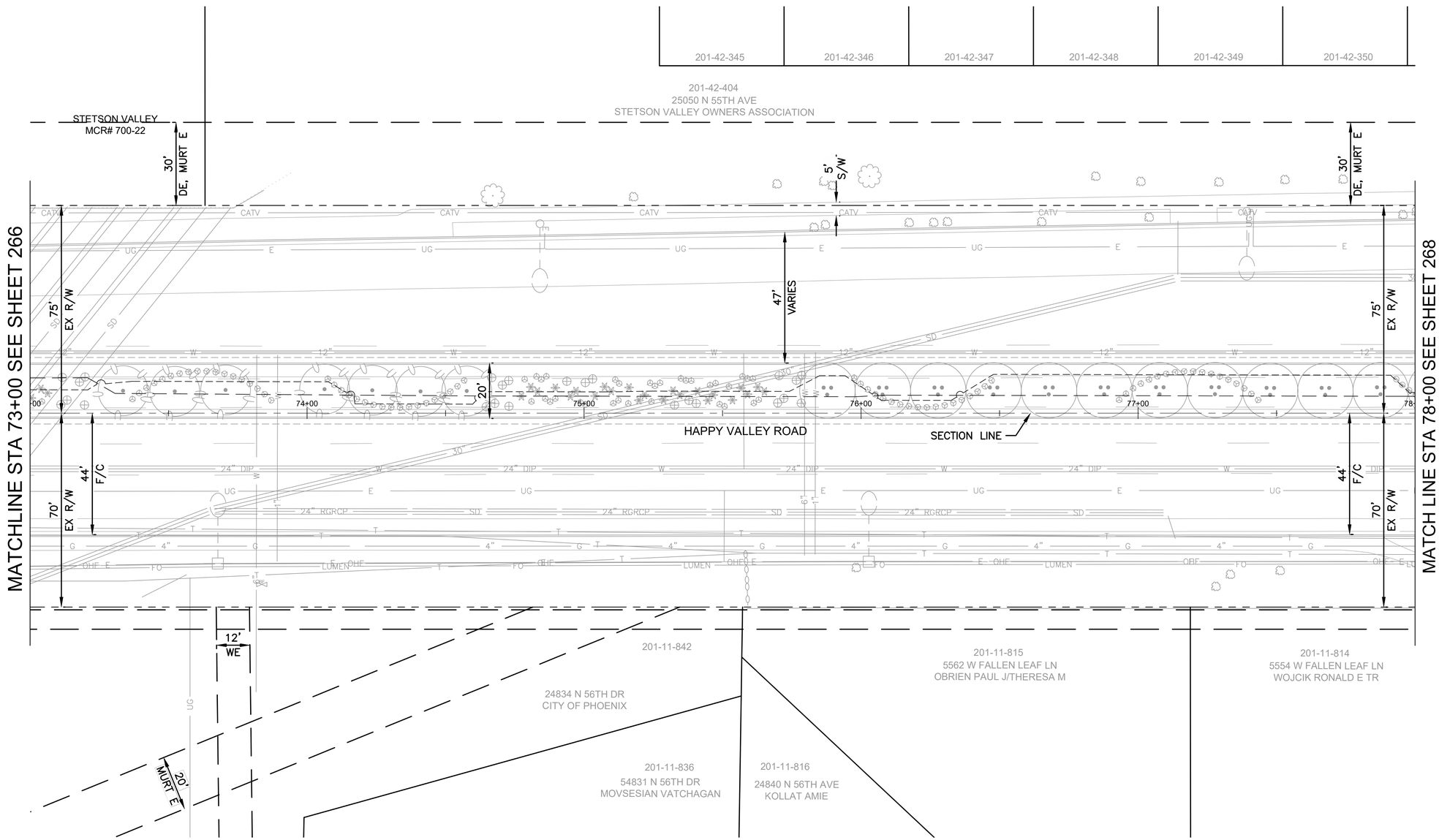
REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437IR13.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	267	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
CERTIFICATE NO. 27437
STEVEN E. LOHIDE
Date Signed: 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	0 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	61 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	1,024 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	0 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 1"
- Valve ID (Controller, Valve #, Type)
- Valve Flow in G.P.M.
- Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

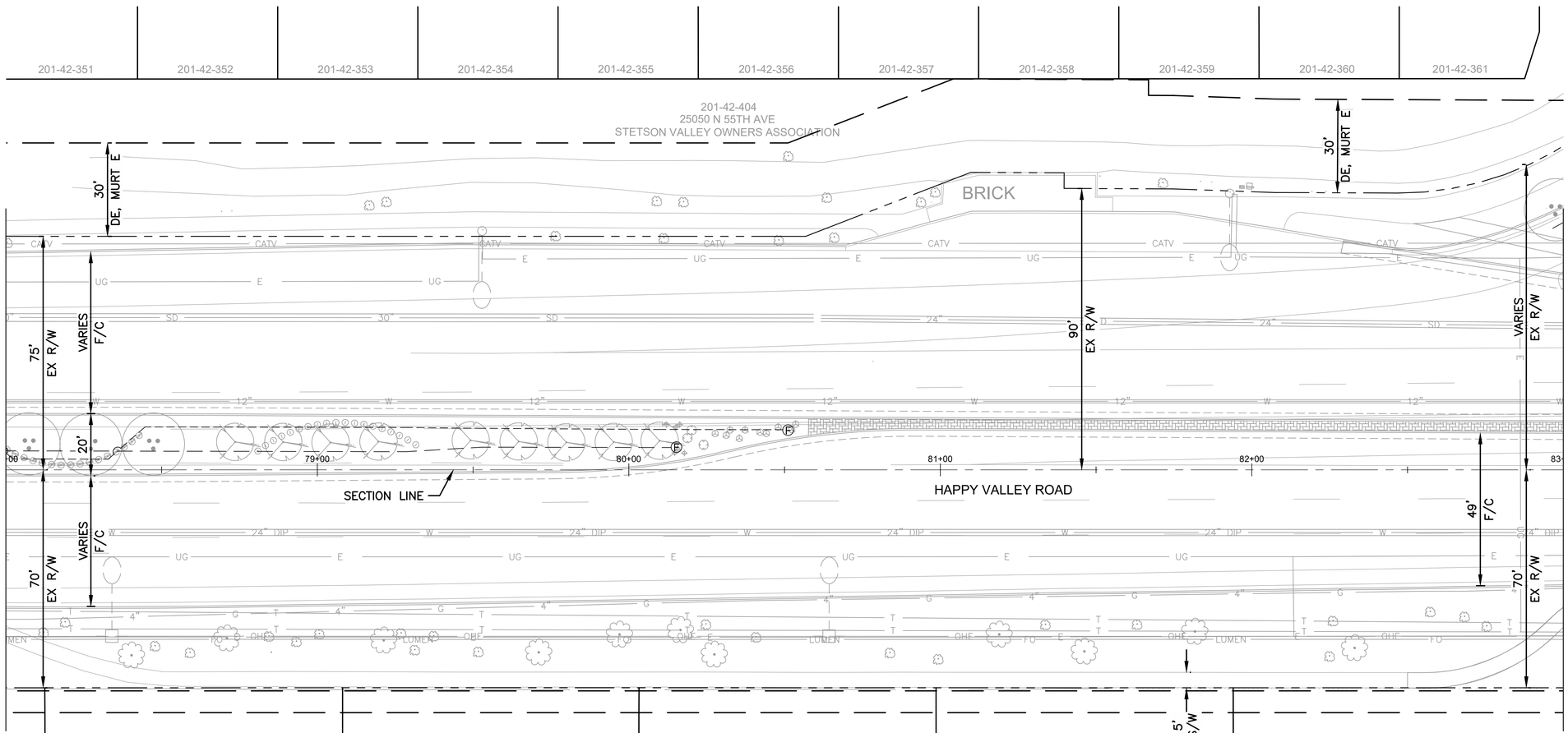
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES: CDW/SEL	CK: SEL	DWG. NO. LP–3.14
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			267 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437IR14.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	268	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
CERTIFICATE NO.
27437
STEVEN E. LOHIDE
Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	2 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	26 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	473 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	0 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 — Valve ID (Controller, Valve #, Type)
1" — Valve Size
Valve Flow in G.P.M.

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

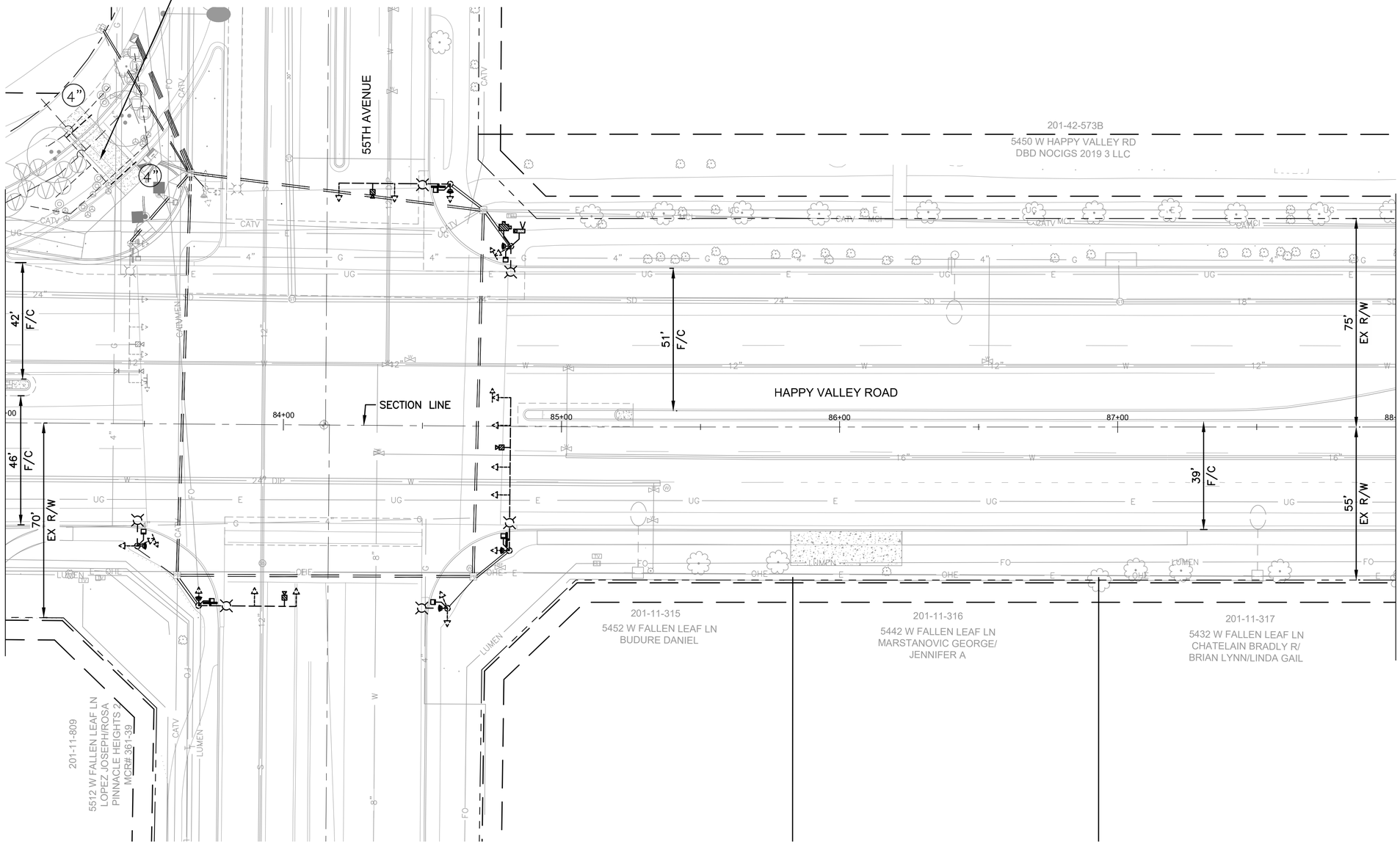
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.15
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			268 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437IR15.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	269	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	0 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	13 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	240 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	24 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 (1") — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.16
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			269 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

SHEET NAME: ST85100437IR16.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

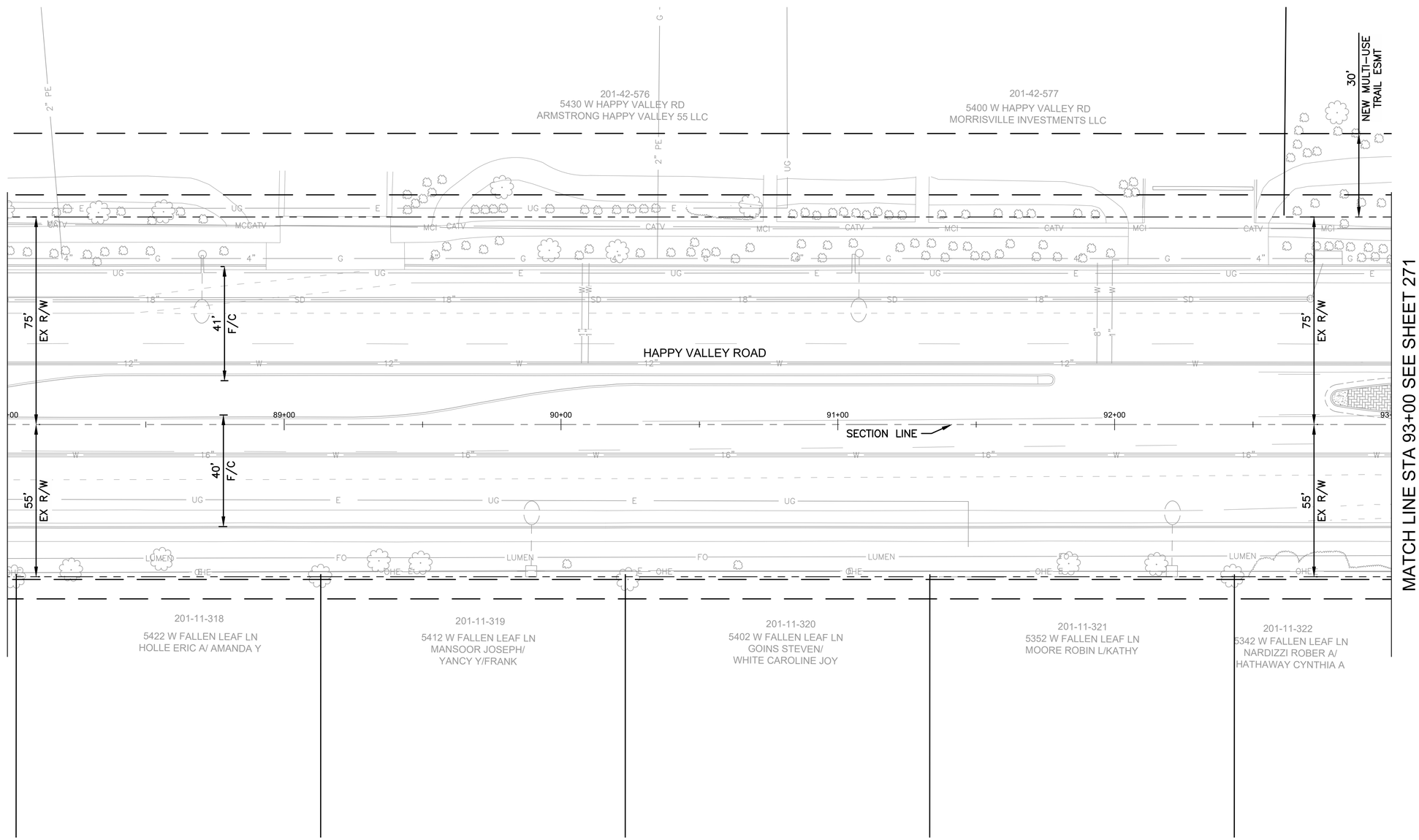
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



NO IRRIGATION WORK THIS SHEET

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	270	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

CERTIFICATE NO. 27437 STEVEN E. LOHIDE — Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	0 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	0 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	0 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–3.17
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			270 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

SHEET NAME: ST85100437IR17.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

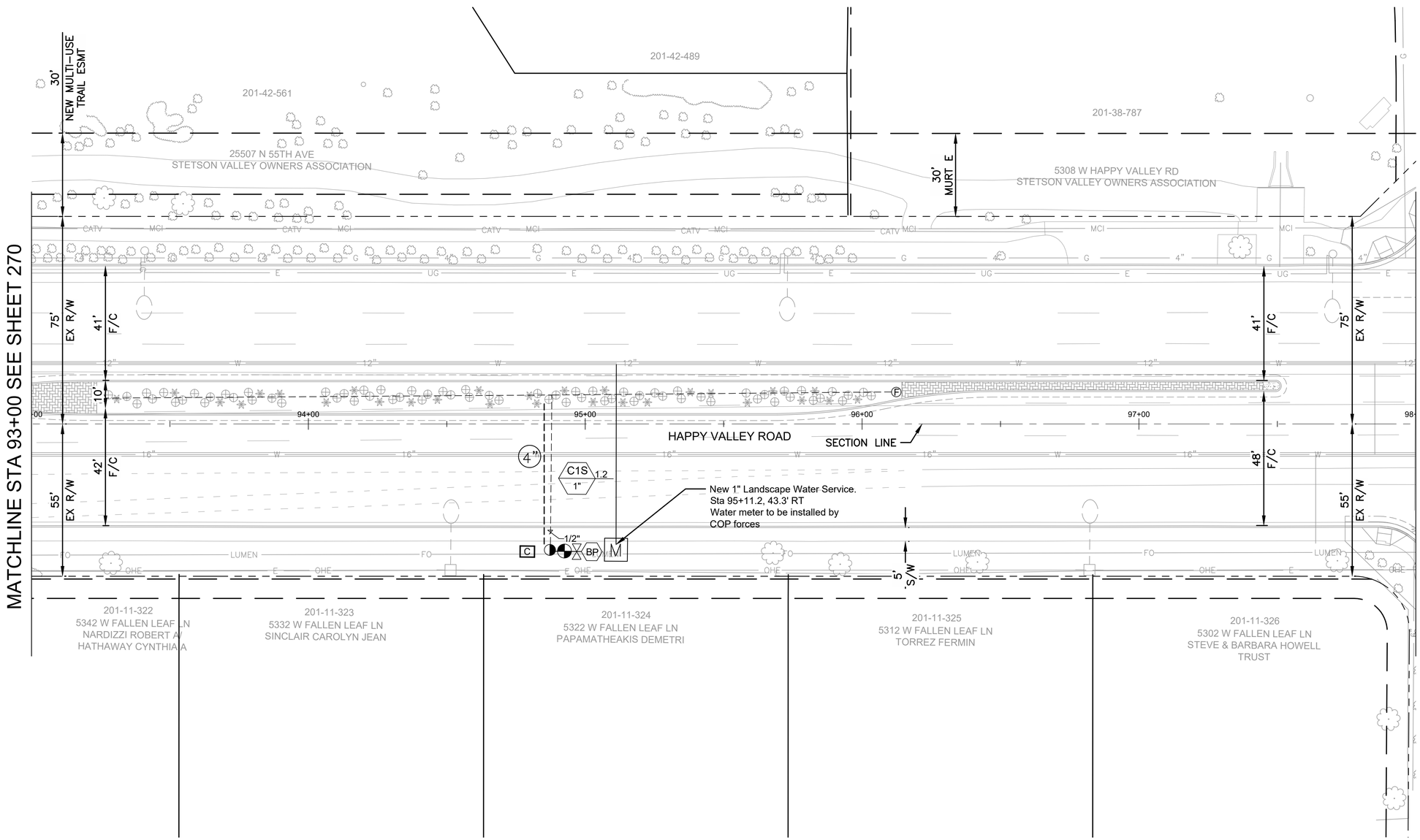
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	271	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	1 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	1 Ea
	Remote Control Valve Assembly (Size per Plan)	1 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	1 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	1 Ea
F	Flush Valve Assembly	2 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	21 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	1 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	11 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	341 LF
4"	Sch 40 PVC Sleeve, 4"	21 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

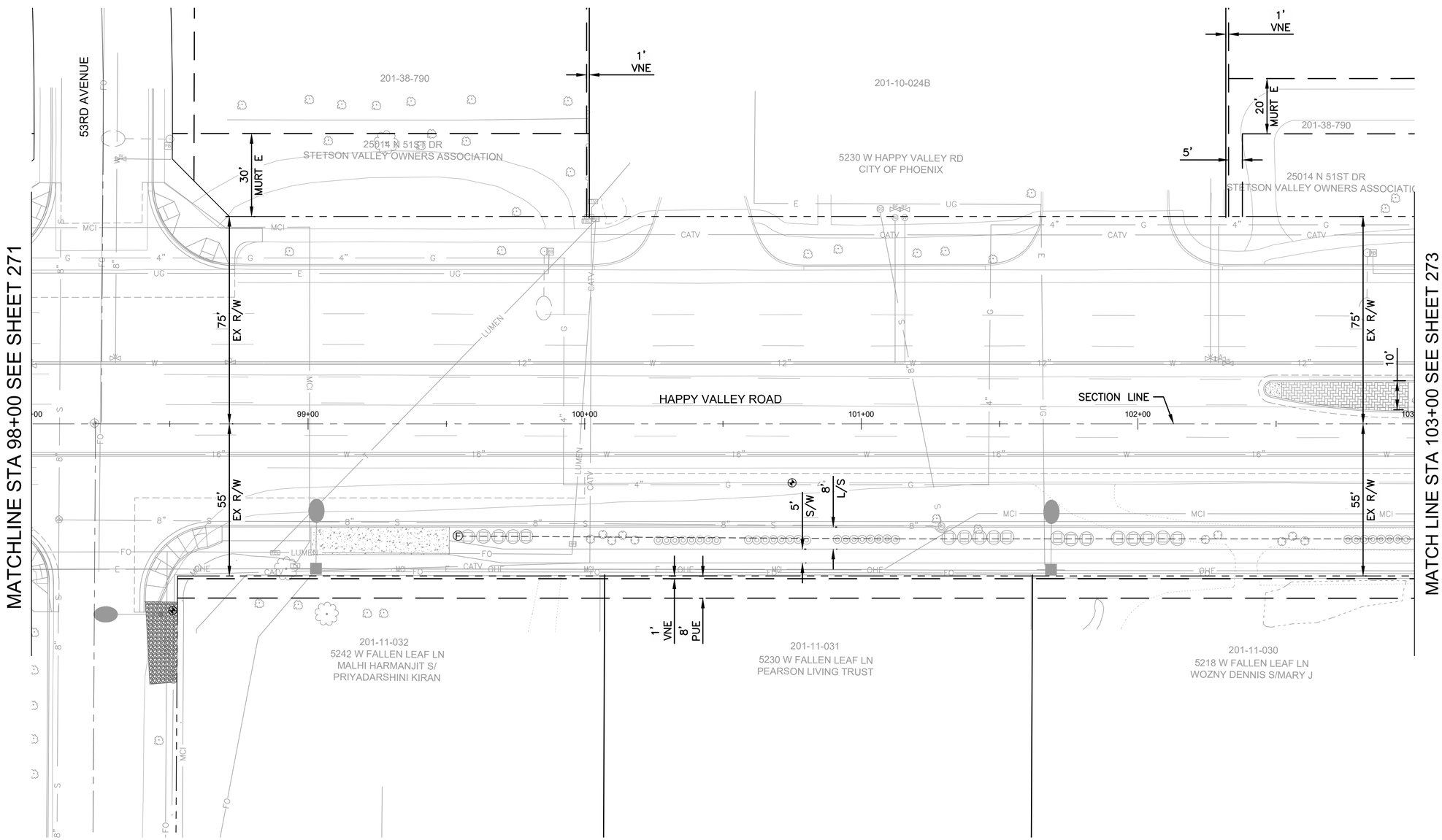
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.18
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			271 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
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SHEET NAME: ST85100437IR18.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	272	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — CERTIFICATE NO. — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — Date Signed: 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	1 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	20 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	344 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	0 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 (1") — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–3.19
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			272 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

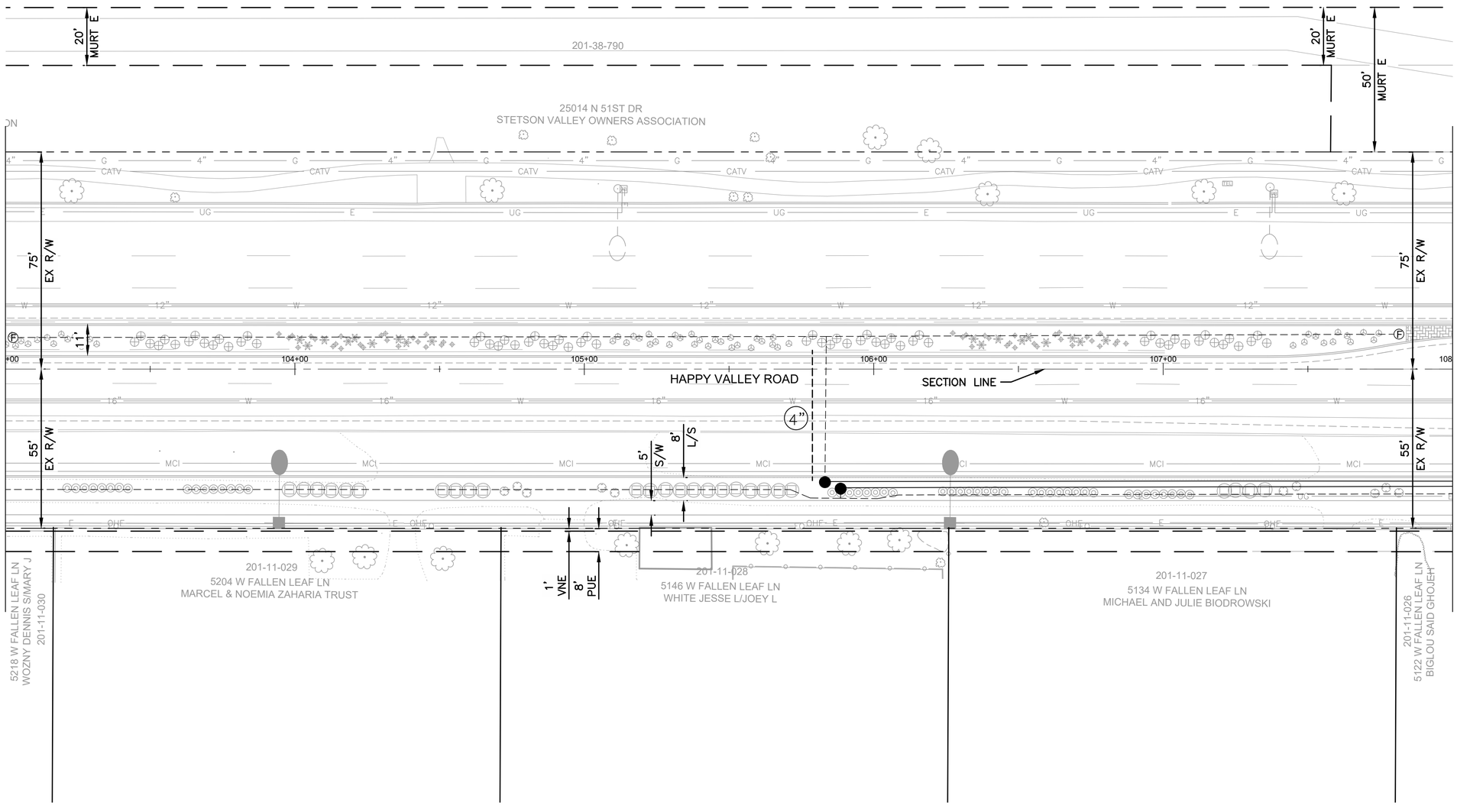
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437IR19.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	273	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — CERTIFICATE NO. — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	2 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	2 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	67 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	428 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	1,030 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	45 LF
	Sch 40 PVC Sleeve, 6"	0 LF
D1T 00.0 1"	Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size	

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

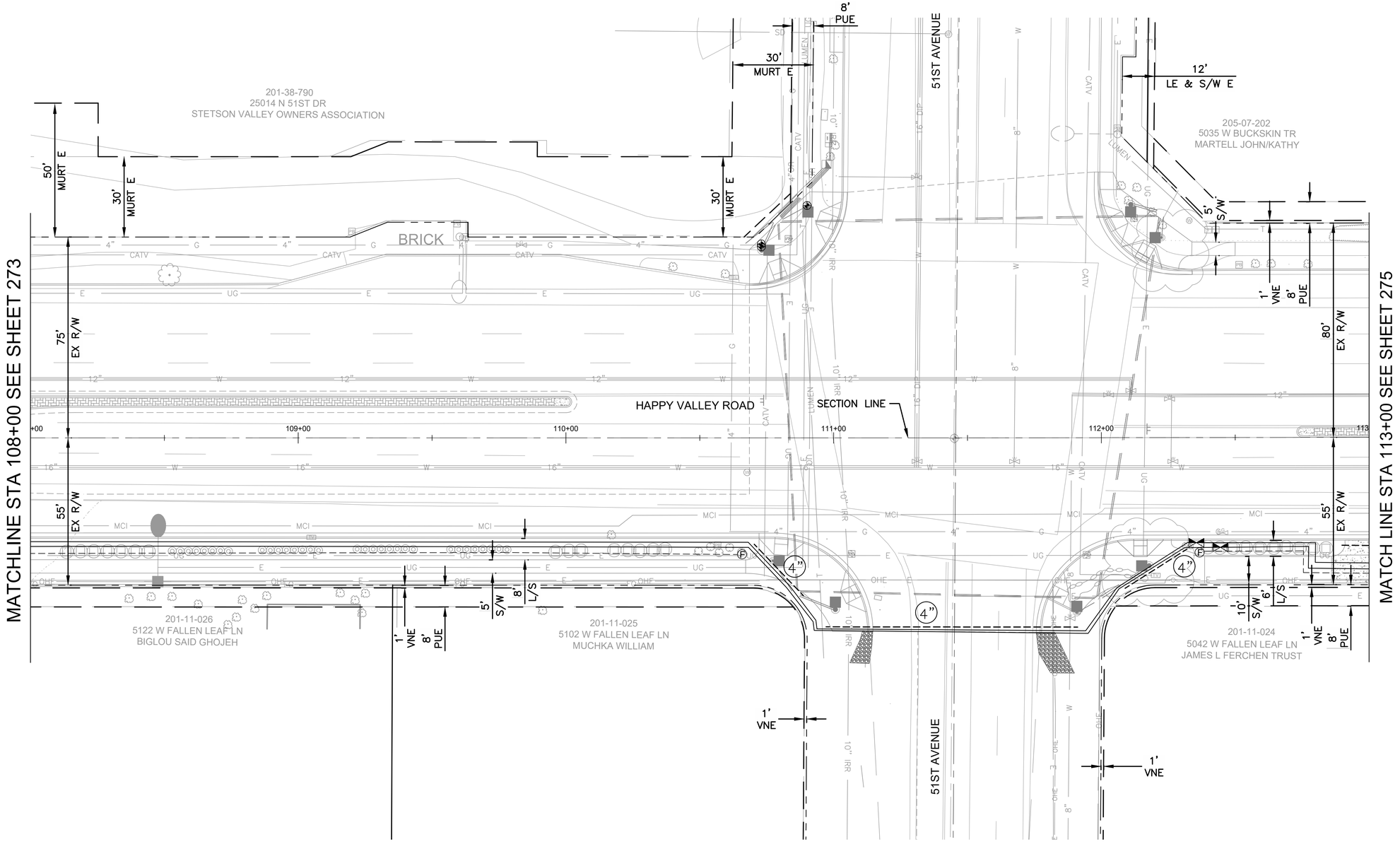
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.20
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			273 OF 364

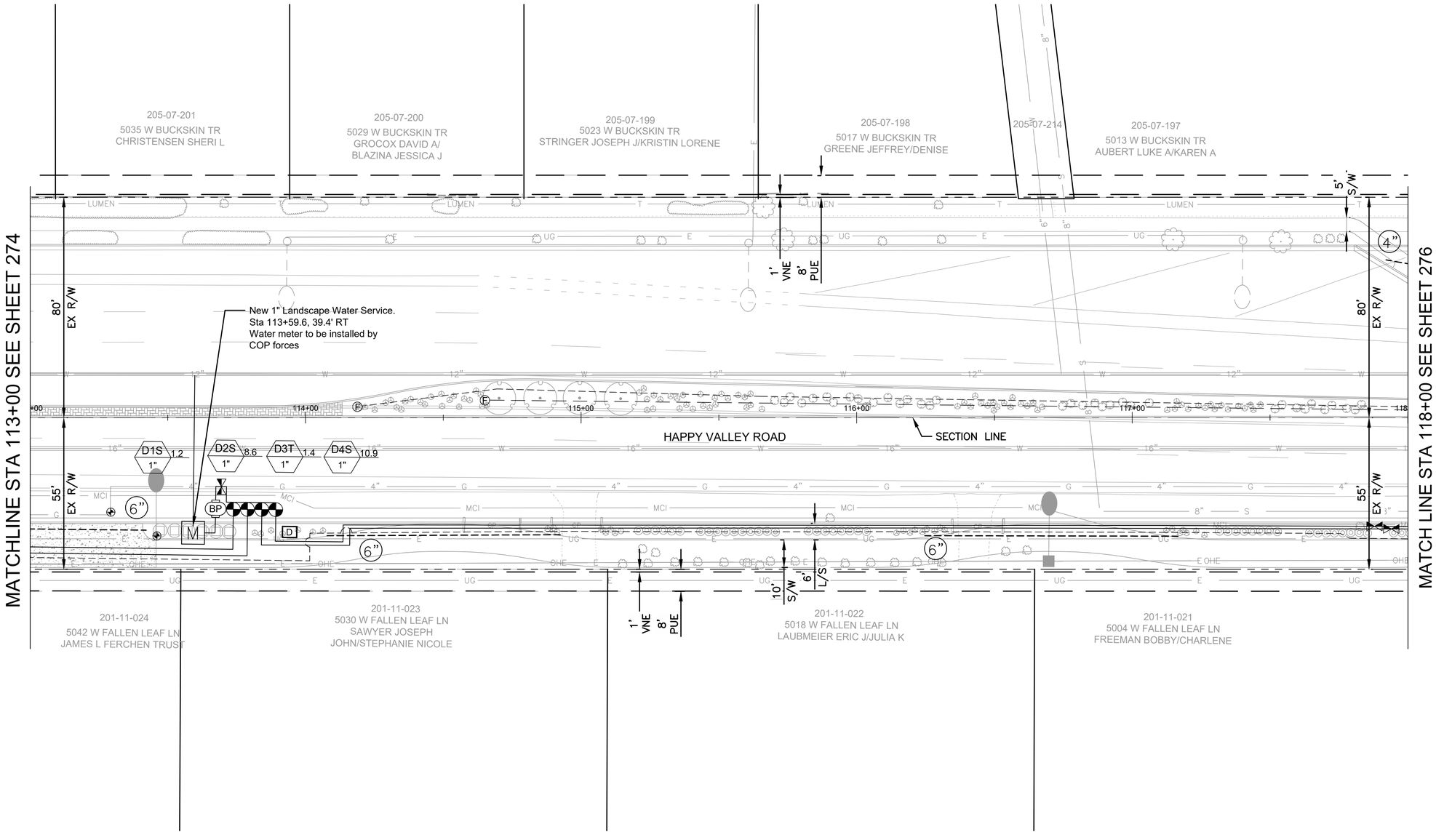
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ARIZONA811
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SHEET NAME: ST85100437IR20.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.


MATCHLINE STA 108+00 SEE SHEET 273
MATCH LINE STA 113+00 SEE SHEET 275
HAPPY VALLEY ROAD
SECTION LINE
51ST AVENUE
51ST AVENUE
8' PUE
30' MURT E
12' LE & S/W E
50' MURT E
30' MURT E
30' MURT E
75' EX R/W
55' EX R/W
80' EX R/W
55' EX R/W
5' S/W
1' VNE
8' PUE
5' S/W
8' L/S
1' VNE
8' PUE
10' S/W
6' L/S
1' VNE
8' PUE
1' VNE
1' VNE
201-38-790
25014 N 51ST DR
STETSON VALLEY OWNERS ASSOCIATION
205-07-202
5035 W BUCKSKIN TR
MARTELL JOHN/KATHY
201-11-026
5122 W FALLEN LEAF LN
BIGLOU SAID GHOJEH
201-11-025
5102 W FALLEN LEAF LN
MUCHKA WILLIAM
201-11-024
5042 W FALLEN LEAF LN
JAMES L FERCHEN TRUST
BRICK
109+00
110+00
111+00
112+00
4"
4"
4"

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	275	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	1 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	1 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	4 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	3 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	2 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	52 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	1 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	42 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	1,038 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	1,229 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	9 LF
	Sch 40 PVC Sleeve, 6"	219 LF

D1T 00.0 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.22
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			275 OF 364

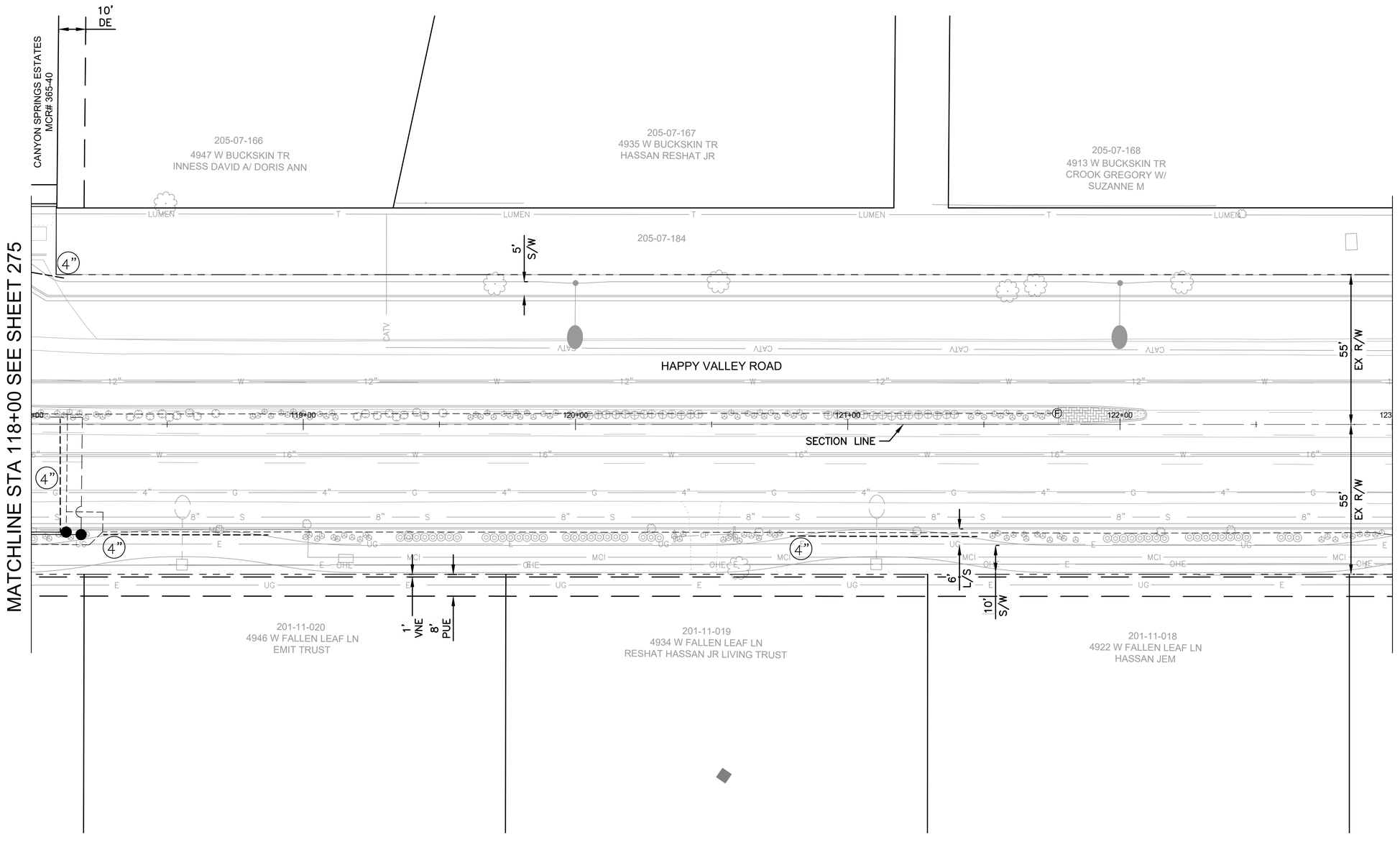
Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

SHEET NAME: ST85100437IR22.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	276	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	2 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	1 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	54 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	31 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	1,005 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	182 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 1"
- Valve ID (Controller, Valve #, Type)
- Valve Flow in G.P.M.
- Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

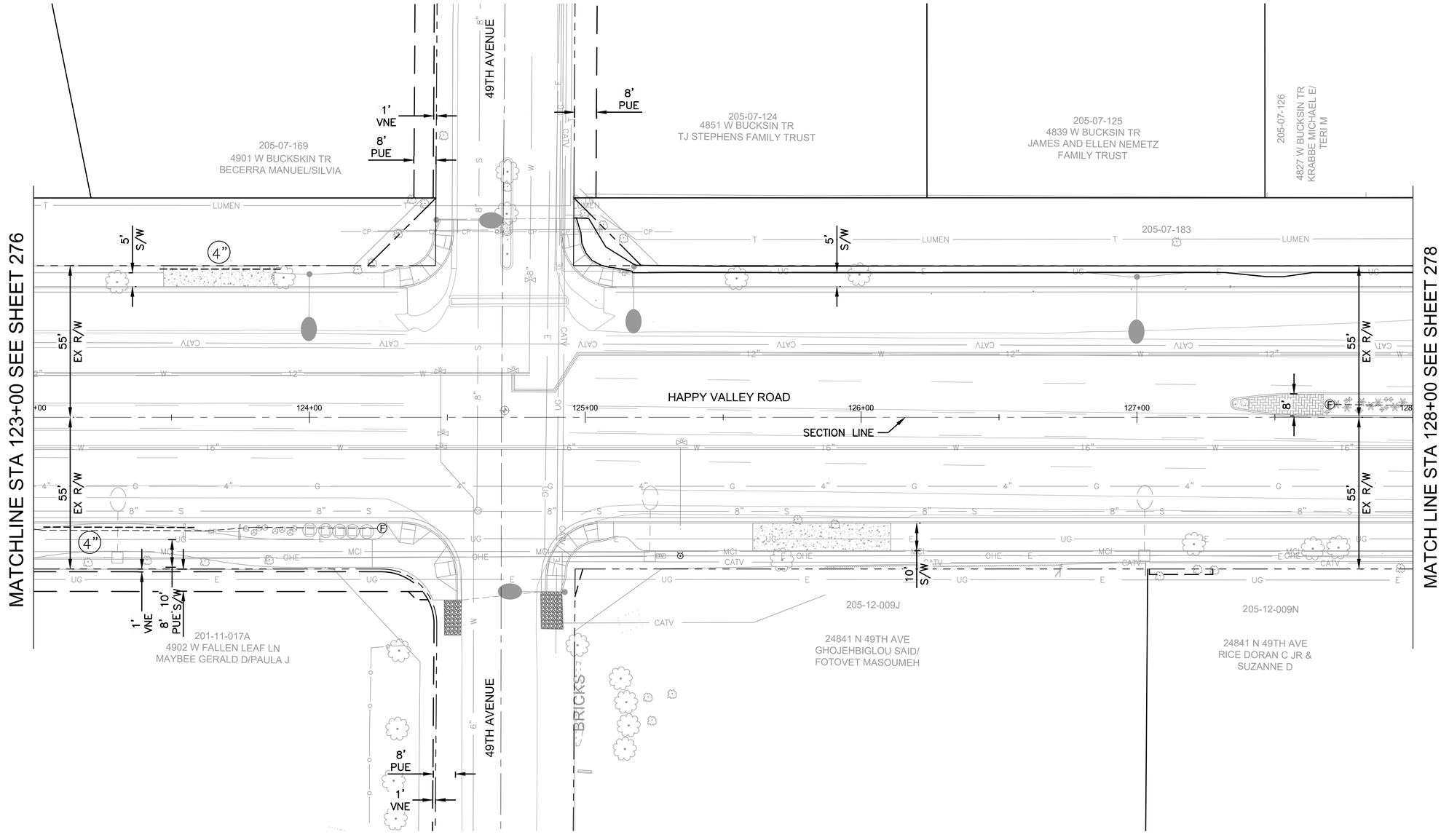
DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.23
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			276 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
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REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV. BY | CK'D BY | DATE

SHEET NAME: ST85100437IR23.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	277	368	

05/2024
DATE:

AZTEC

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — CERTIFICATE NO. — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	2 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	8 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	125 LF
	Drip Lateral, ½" SCH 40 PVC	29 LF
4"	Sch 40 PVC Sleeve, 4"	98 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 / 1"
- Valve ID (Controller, Valve #, Type)
- Valve Flow in G.P.M.
- Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.24
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			277 OF 364

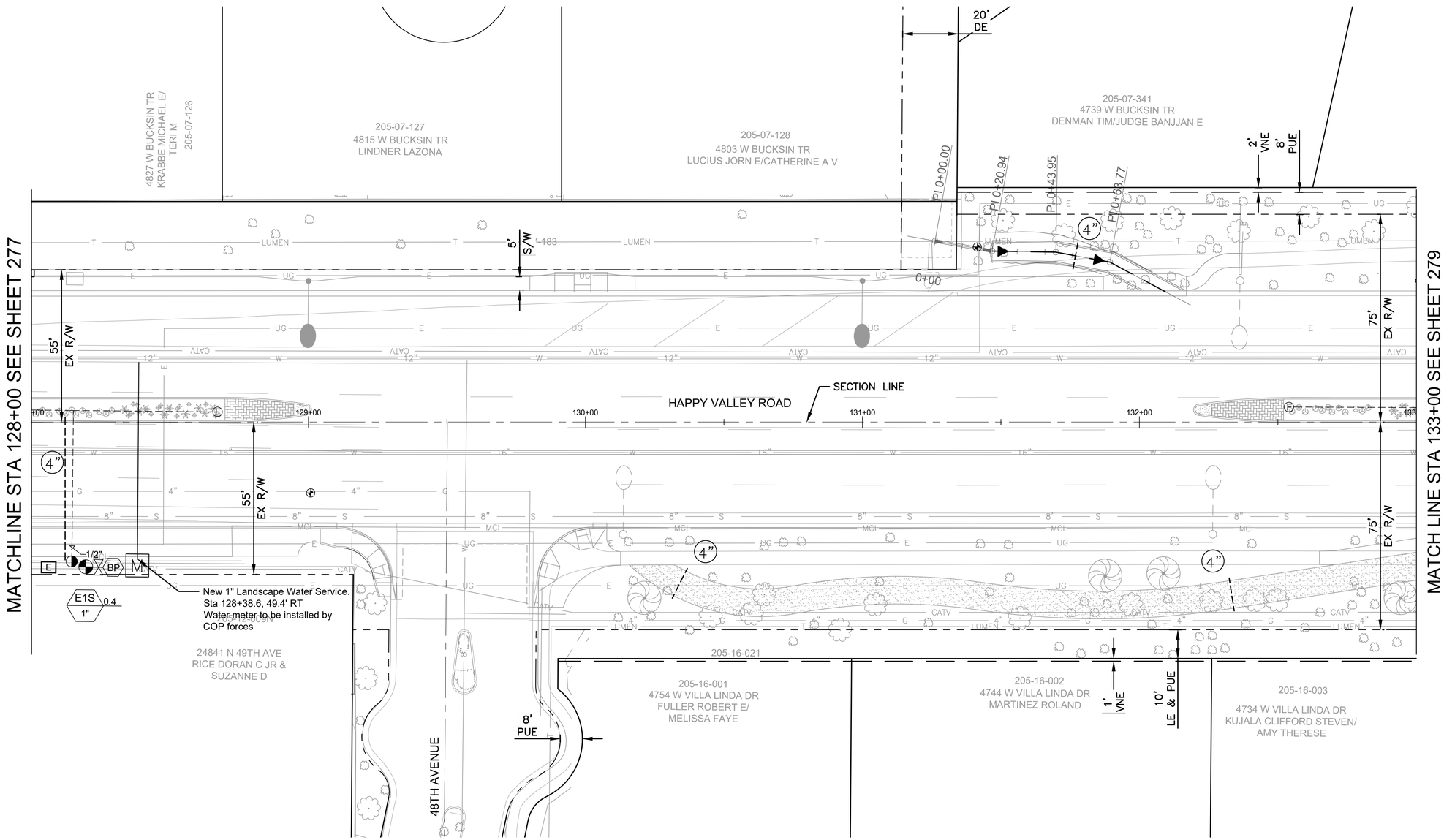
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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437IR24.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



NOTE: The new Acacia aneuras this sheet shall be watered using the existing irrigation system in the right of way being used to water existing plants. The contractor will need to locate the existing laterals to add on new drip emitters for each tree. The contractor shall coordinate with the existing irrigation system owner. This work shall be measured and paid under Item M4400004 Modify Existing Irrigation System and Restore Landscaping.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	278	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

CERTIFICATE NO. 27437 STEVEN E. LOHIDE — Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	1 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	1 Ea
	Remote Control Valve Assembly (Size per Plan)	1 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	1 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	1 Ea
F	Flush Valve Assembly	2 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	15 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	1 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	11 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	166 LF
4"	Sch 40 PVC Sleeve, 4"	85 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 — 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–3.25
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			278 OF 364

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

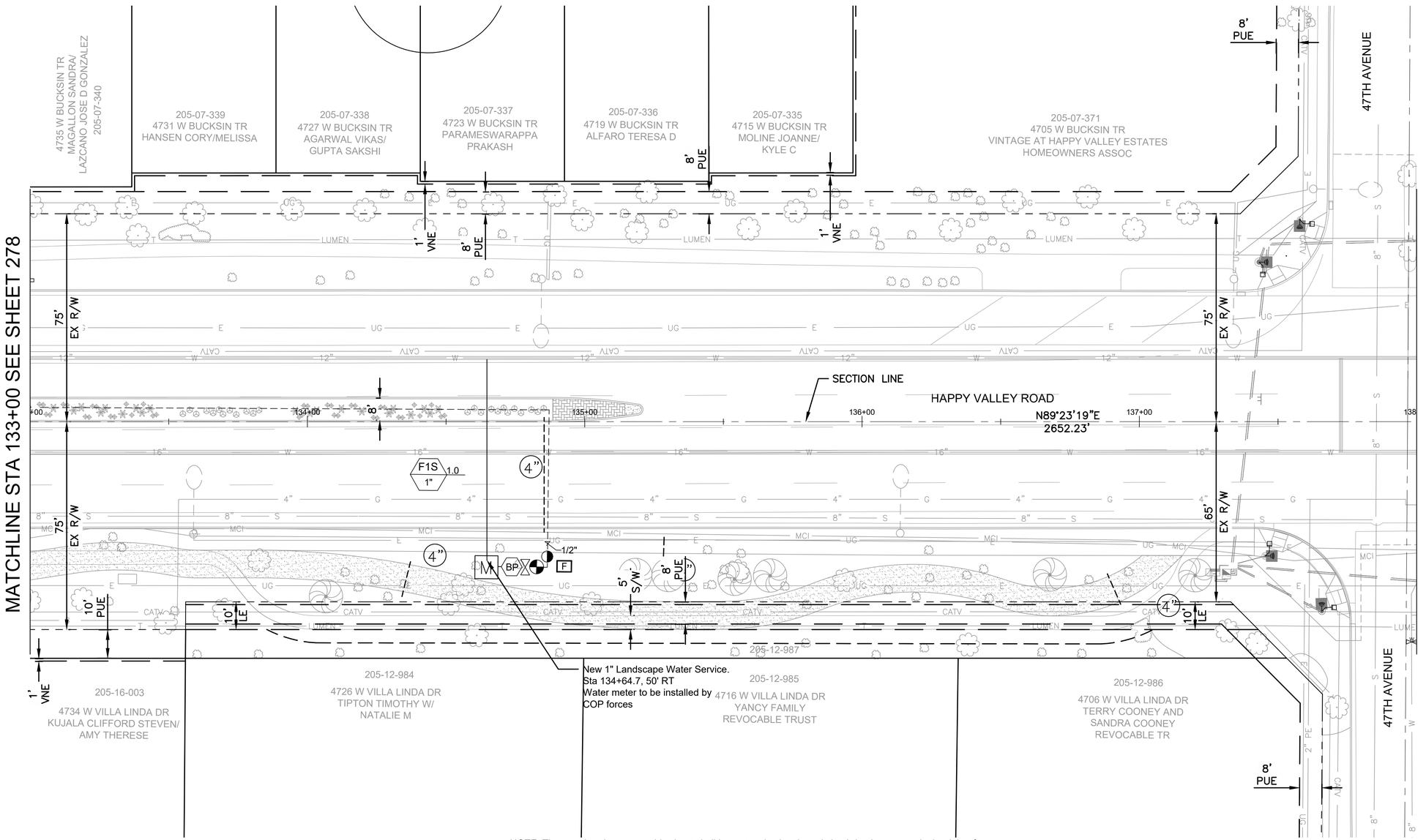
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437IR25.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



NOTE: The new Acacia aneuras this sheet shall be watered using the existing irrigation system in the right of way being used to water existing plants. The contractor will need to locate the existing laterals to add on new drip emitters for each tree. The contractor shall coordinate with the existing irrigation system owner. This work shall be measured and paid under Item M4400004 Modify Existing Irrigation System and Restore Landscaping.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	279	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — CERTIFICATE NO. — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	1 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	1 Ea
	Remote Control Valve Assembly (Size per Plan)	1 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	1 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	1 Ea
F	Flush Valve Assembly	0 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	24 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	1 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	5 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	242 LF
4"	Sch 40 PVC Sleeve, 4"	73 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 / 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–3.26
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			279 OF 364

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

SHEET NAME: ST85100437IR26.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

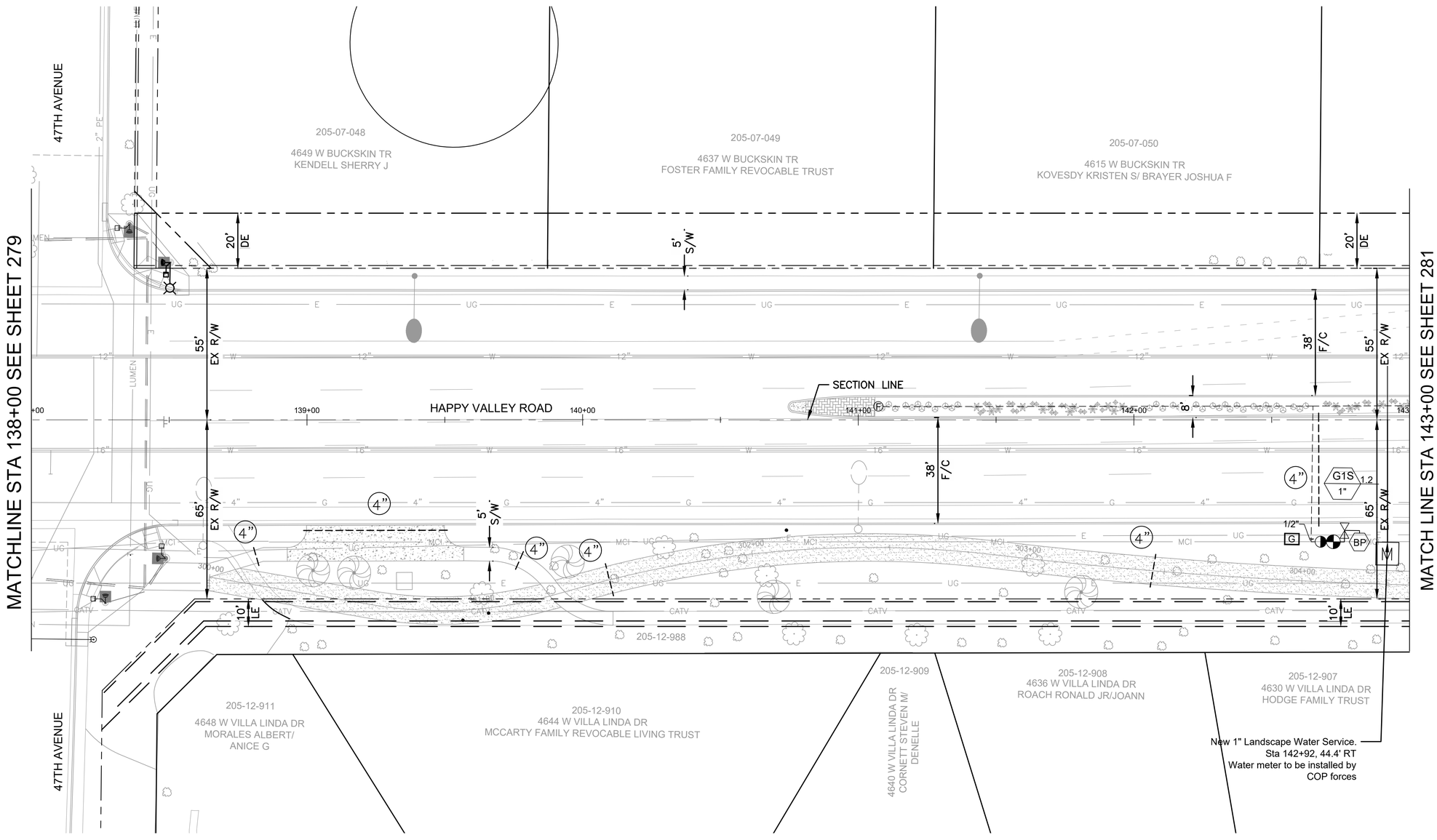
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



NOTE: The new Acacia aneuras this sheet shall be watered using the existing irrigation system in the right of way being used to water existing plants. The contractor will need to locate the existing laterals to add on new drip emitters for each tree. The contractor shall coordinate with the existing irrigation system owner. This work shall be measured and paid under Item M4400004 Modify Existing Irrigation System and Restore Landscaping.

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ARIZONA811
Call 811 or click Arizona811.com

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	280	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437
STEVEN E.
LOHIDE
Date Signed 4/30/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	1 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	1 Ea
	Remote Control Valve Assembly (Size per Plan)	1 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	1 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	1 Ea
F	Flush Valve Assembly	1 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	22 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	1 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	15 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	242 LF
4"	Sch 40 PVC Sleeve, 4"	131 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 — Valve ID (Controller, Valve #, Type)
1" — Valve Size
Valve Flow in G.P.M.

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL
DATE: 05/24	DATE: 05/24	DATE: 05/24

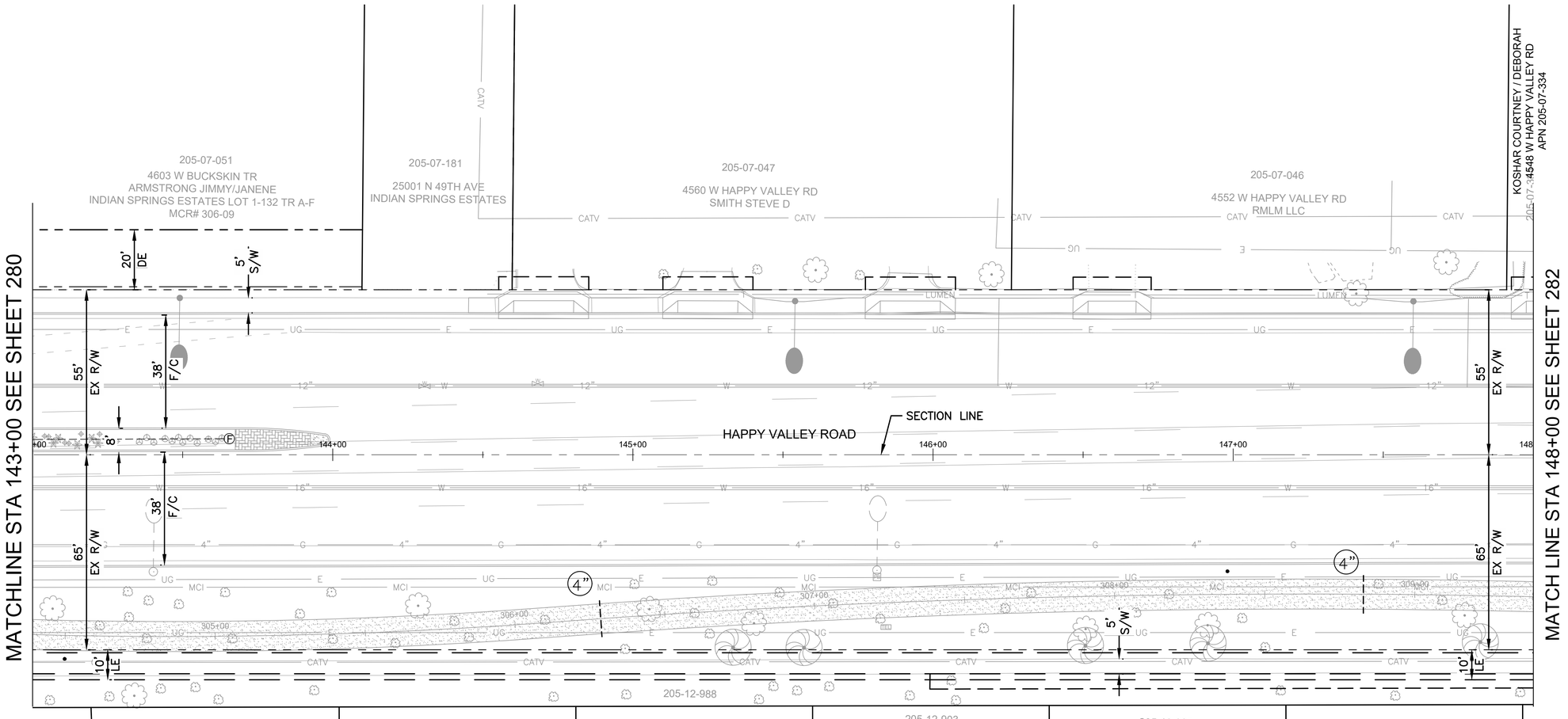
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DWG. NO. LP–3.27

280 OF 364

SHEET NAME: ST85100437IR27.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



NOTE: The new Acacia aneuras this sheet shall be watered using the existing irrigation system in the right of way being used to water existing plants. The contractor will need to locate the existing laterals to add on new drip emitters for each tree. The contractor shall coordinate with the existing irrigation system owner. This work shall be measured and paid under Item M4400004 Modify Existing Irrigation System and Restore Landscaping.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	281	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — CERTIFICATE NO. — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	1 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	12 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	63 LF
4"	Sch 40 PVC Sleeve, 4"	25 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.28
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			281 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

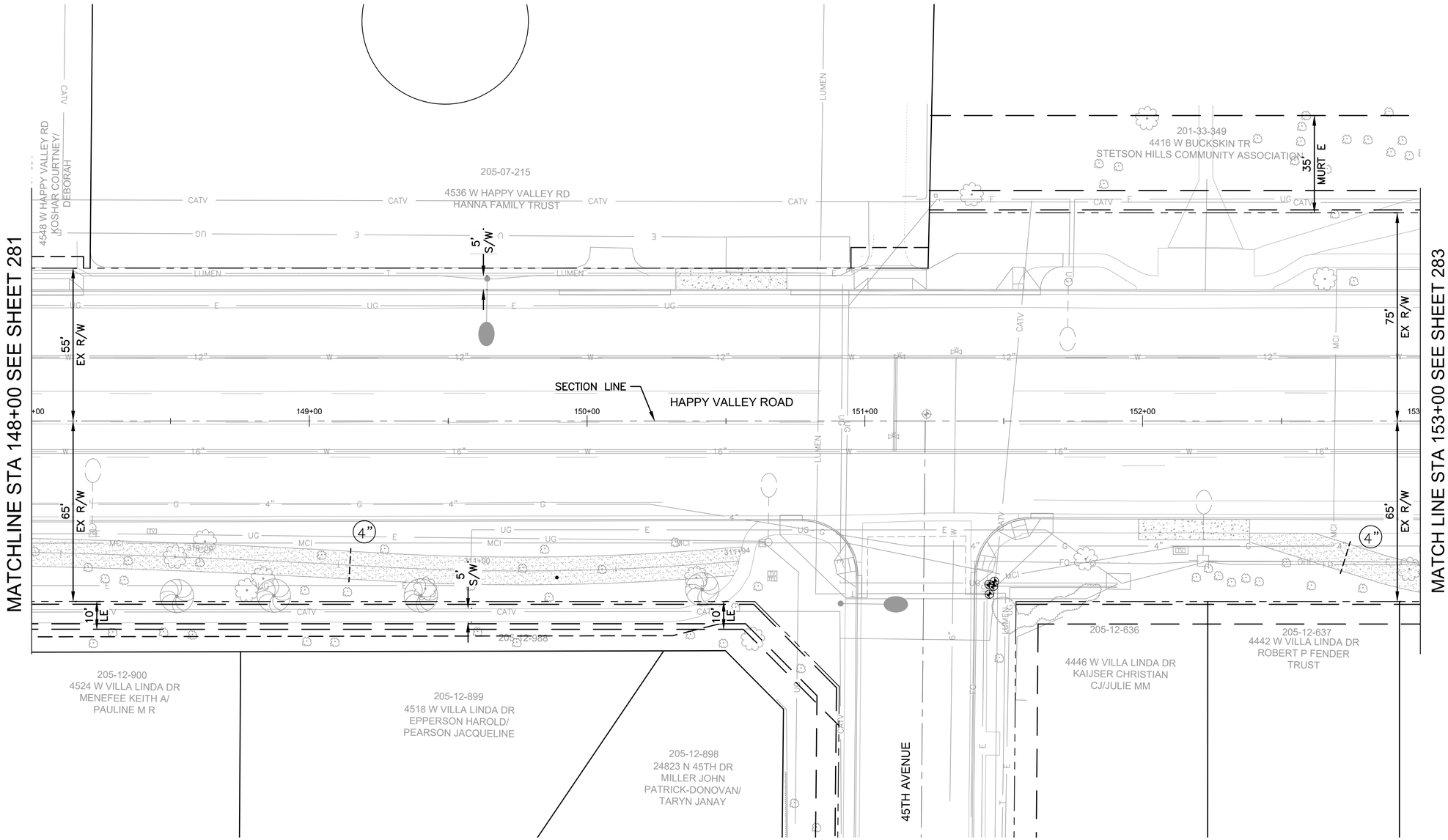
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437IR28.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



NOTE: The new Acacia aneuras this sheet shall be watered using the existing irrigation system in the right of way being used to water existing plants. The contractor will need to locate the existing laterals to add on new drip emitters for each tree. The contractor shall coordinate with the existing irrigation system owner. This work shall be measured and paid under Item M4400004 Modify Existing Irrigation System and Restore Landscaping.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	282	368	

05/2024 DATE:

AZTEC

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — CERTIFICATE NO. — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	0 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	4 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	24 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 — Valve ID (Controller, Valve #, Type)
1" — Valve Flow in G.P.M.
Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP | DES:CDW/SEL | CK: SEL
DATE: 05/24 | DATE: 05/24 | DATE: 05/24

SCALE: 1" = 20' HORIZONTAL

DWG. NO. LP–3.29

282 OF 364

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ARIZONA811
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

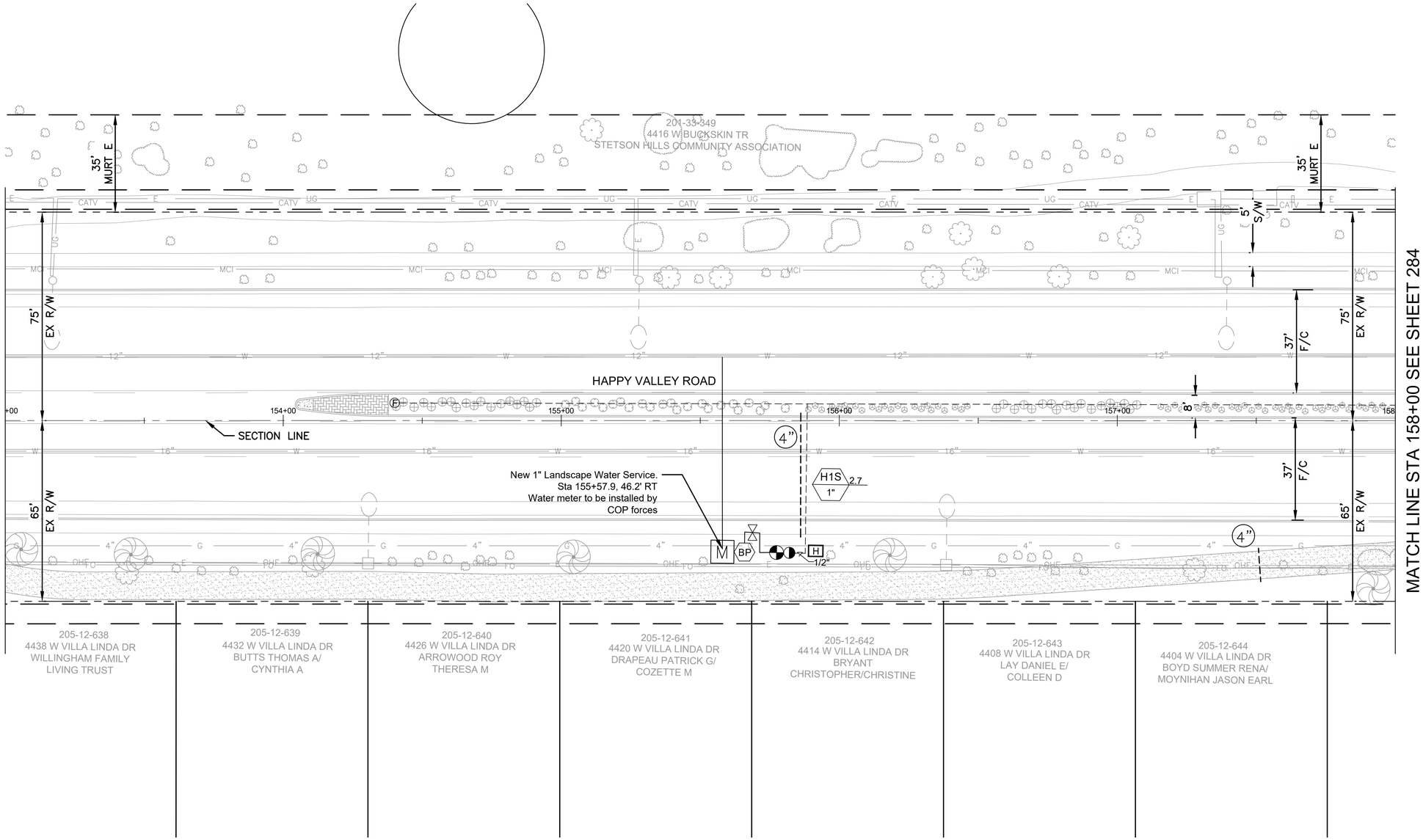
NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

SHEET NAME: ST85100437IR29.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



NOTE: The new Acacia aneuras this sheet shall be watered using the existing irrigation system in the right of way being used to water existing plants. The contractor will need to locate the existing laterals to add on new drip emitters for each tree. The contractor shall coordinate with the existing irrigation system owner. This work shall be measured and paid under Item M4400004 Modify Existing Irrigation System and Restore Landscaping.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	283	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — CERTIFICATE NO. — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	1 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	1 Ea
	Remote Control Valve Assembly (Size per Plan)	1 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	1 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	1 Ea
F	Flush Valve Assembly	1 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	36 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	1 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	20 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	417 LF
4"	Sch 40 PVC Sleeve, 4"	57 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–3.30
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			283 OF 364

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ARIZONA811
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

SHEET NAME: ST85100437IR30.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

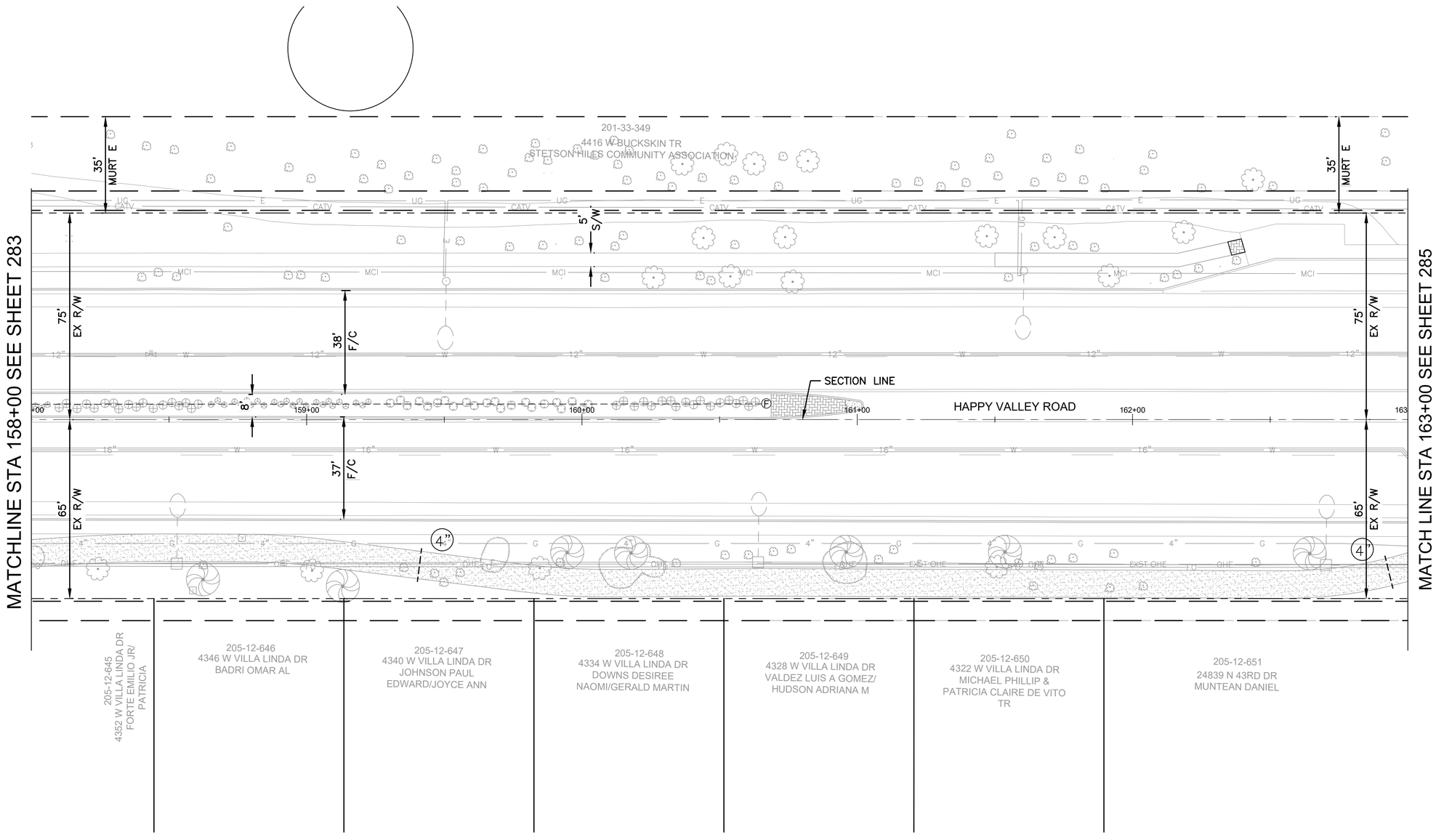
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



NOTE: The new Acacia aneuras this sheet shall be watered using the existing irrigation system in the right of way being used to water existing plants. The contractor will need to locate the existing laterals to add on new drip emitters for each tree. The contractor shall coordinate with the existing irrigation system owner. This work shall be measured and paid under Item M4400004 Modify Existing Irrigation System and Restore Landscaping.

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ARIZONA811
Call 811 or click Arizona811.com

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	284	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — CERTIFICATE NO. — Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	1 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	1 Ea
	Remote Control Valve Assembly (Size per Plan)	1 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	1 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	1 Ea
F	Flush Valve Assembly	1 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	29 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	1 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	20 LF
	Drip Lateral, ½" SCH 40 PVC	417 LF
4"	Sch 40 PVC Sleeve, 4"	57 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

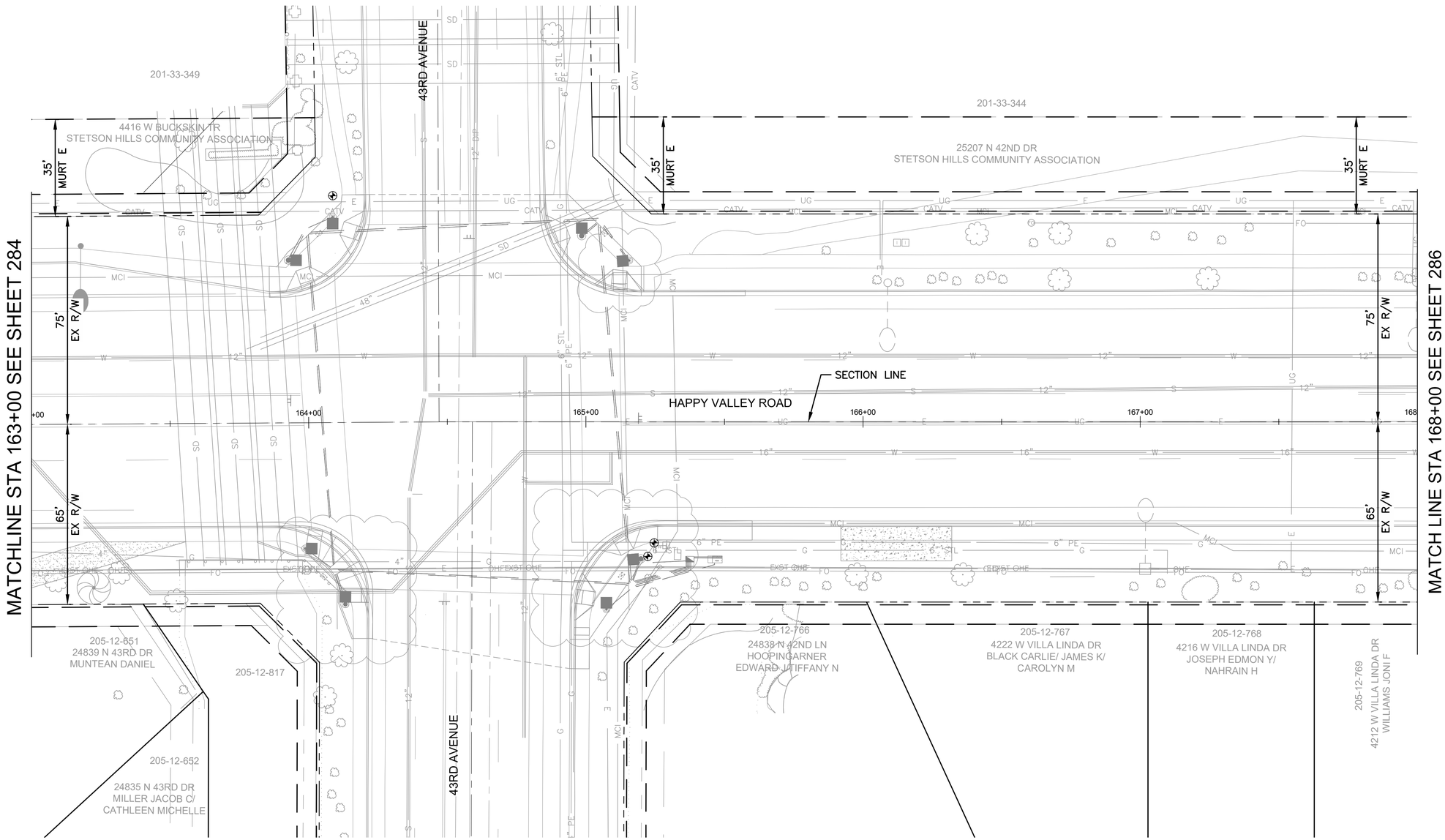
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–3.31
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			284 OF 364

SHEET NAME: ST85100437IR31.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



NOTE: The new Acacia aneuras this sheet shall be watered using the existing irrigation system in the right of way being used to water existing plants. The contractor will need to locate the existing laterals to add on new drip emitters for each tree. The contractor shall coordinate with the existing irrigation system owner. This work shall be measured and paid under Item M4400004 Modify Existing Irrigation System and Restore Landscaping.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	285	368	

05/2024 DATE: AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — CERTIFICATE NO. — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	0 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	2 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	0 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 / 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.32
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			285 OF 364

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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

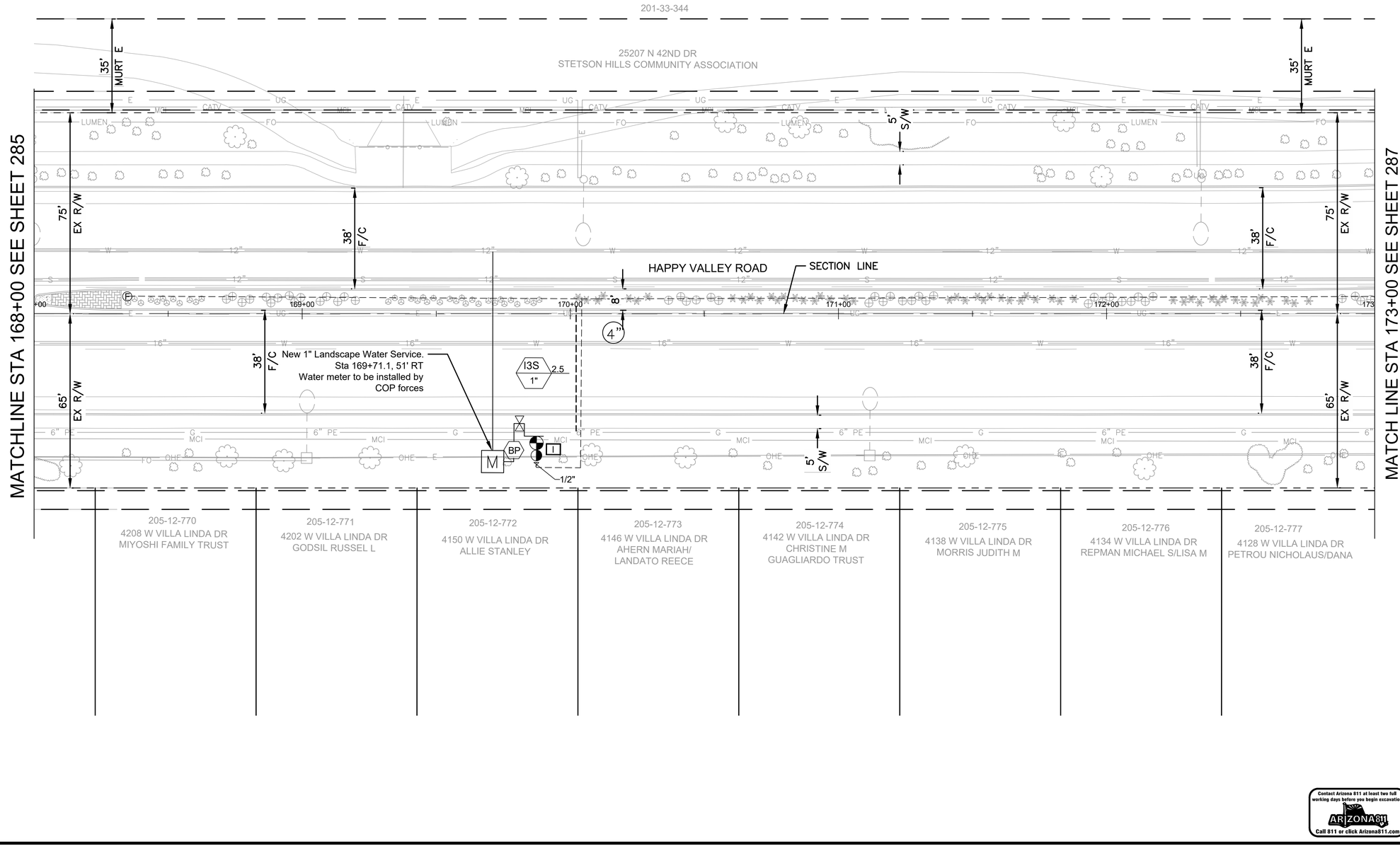
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437IR32.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	286	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	1 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	1 Ea
	Remote Control Valve Assembly (Size per Plan)	1 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	1 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	1 Ea
F	Flush Valve Assembly	1 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	37 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	1 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	27 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	551 LF
4"	Sch 40 PVC Sleeve, 4"	47 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 — Valve ID (Controller, Valve #, Type)
1" — Valve Flow in G.P.M. / Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–3.33
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			286 OF 364

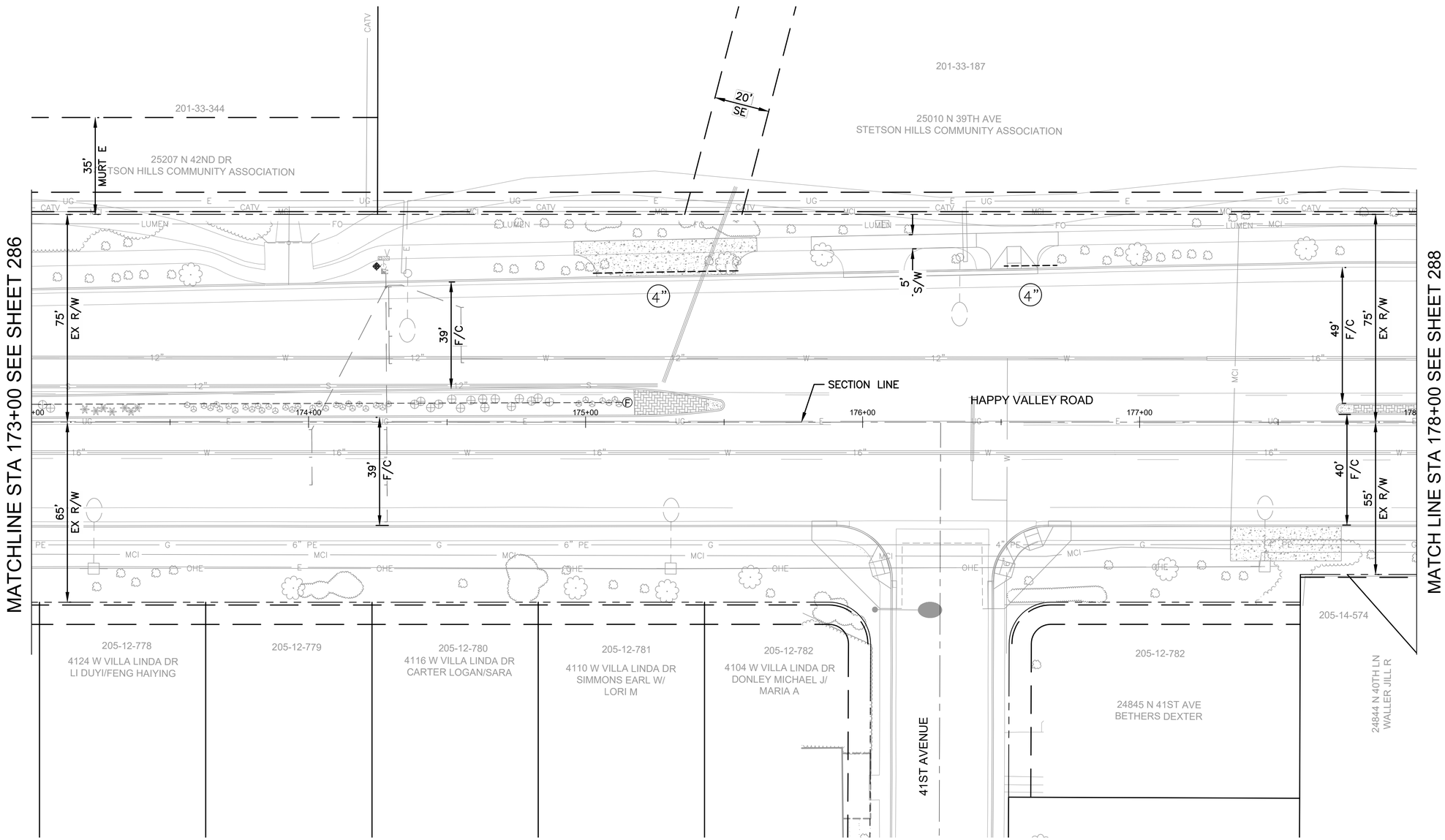
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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

SHEET NAME: ST85100437IR33.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	287	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — CERTIFICATE NO. — REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT — Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	1 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	17 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	213 LF
4"	Sch 40 PVC Sleeve, 4"	71 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

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IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.34
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			287 OF 364

SHEET NAME: ST85100437IR34.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	288	368	

05/2024 DATE:

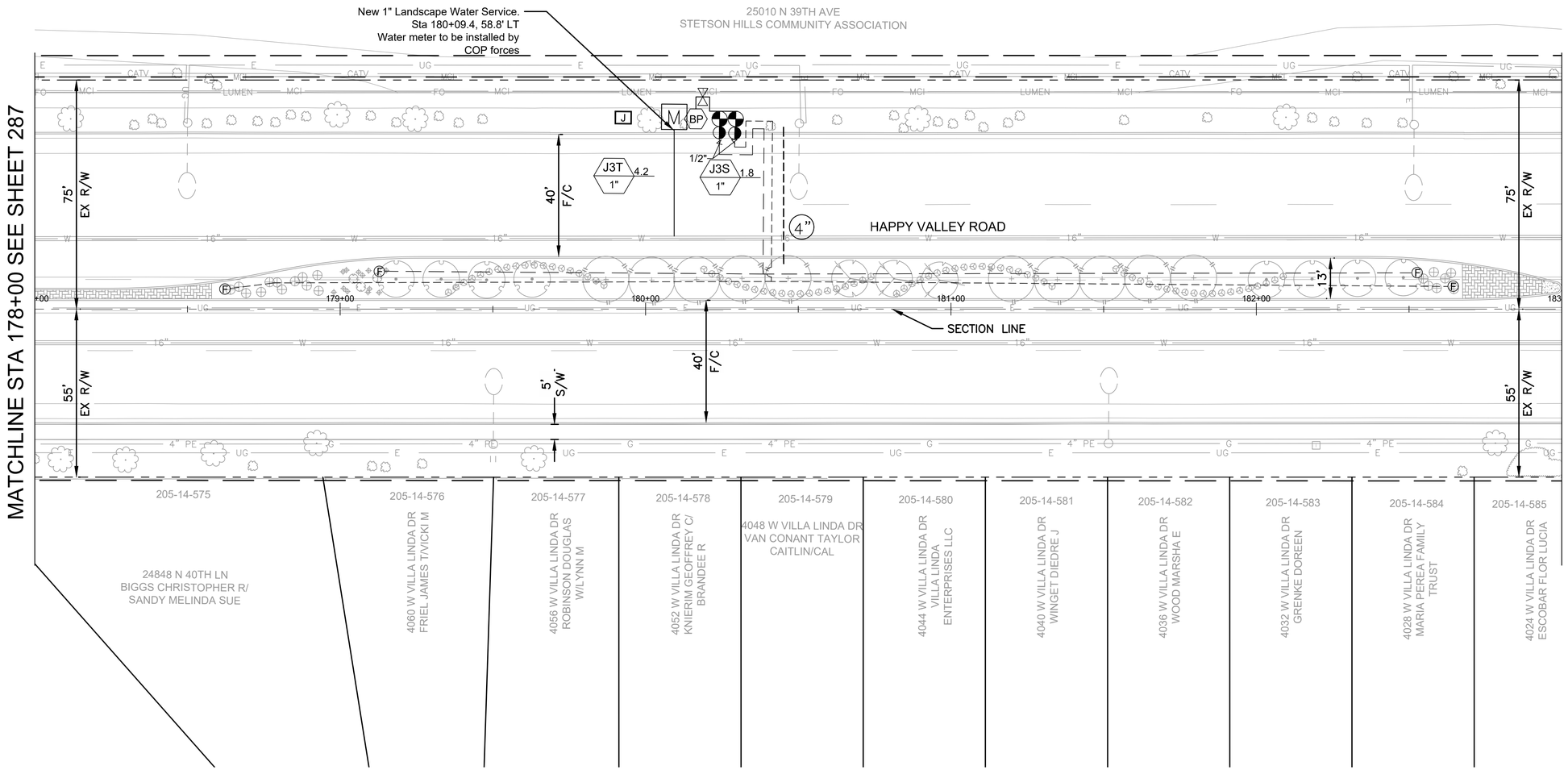
AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE — Date Signed 05/23/2024

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE



IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	1 Ea
	Remote Control Valve Assembly (Size per Plan)	2 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	2 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	1 Ea
F	Flush Valve Assembly	4 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	50 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	1 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	22 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	893 LF
4"	Sch 40 PVC Sleeve, 4"	45 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

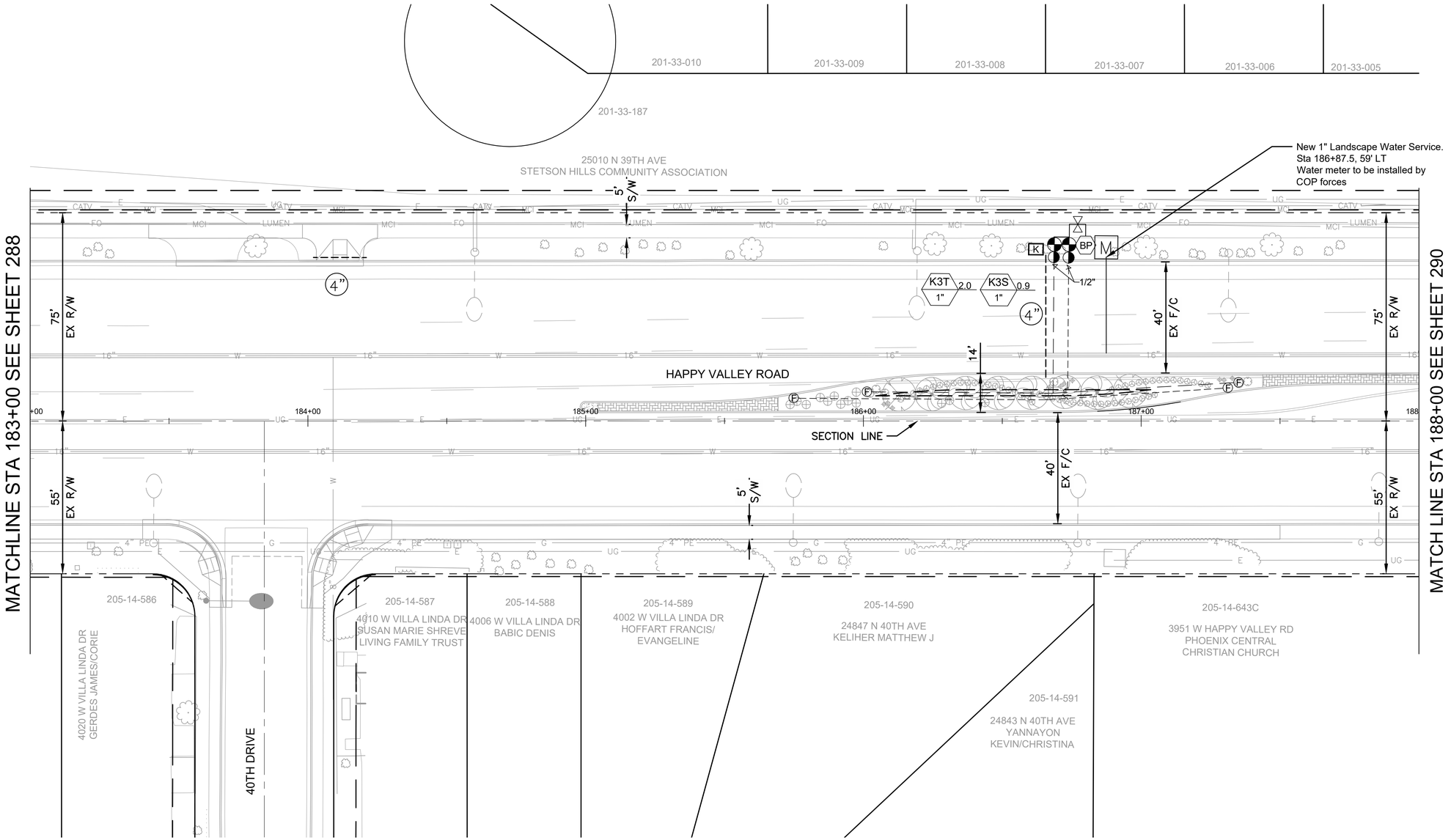
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.35
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			288 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

SHEET NAME: ST85100437IR35.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	289	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

27437 STEVEN E. LOHIDE
Date Signed 05/23/2024

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	1 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	1 Ea
	Remote Control Valve Assembly (Size per Plan)	2 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	2 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	1 Ea
F	Flush Valve Assembly	3 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	27 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	1 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	386 LF
4"	Sch 40 PVC Sleeve, 4"	63 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 1"
- Valve ID (Controller, Valve #, Type)
- Valve Flow in G.P.M.
- Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–3.36
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			289 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D. BY	DATE

REVISION BY CITY OF PHOENIX

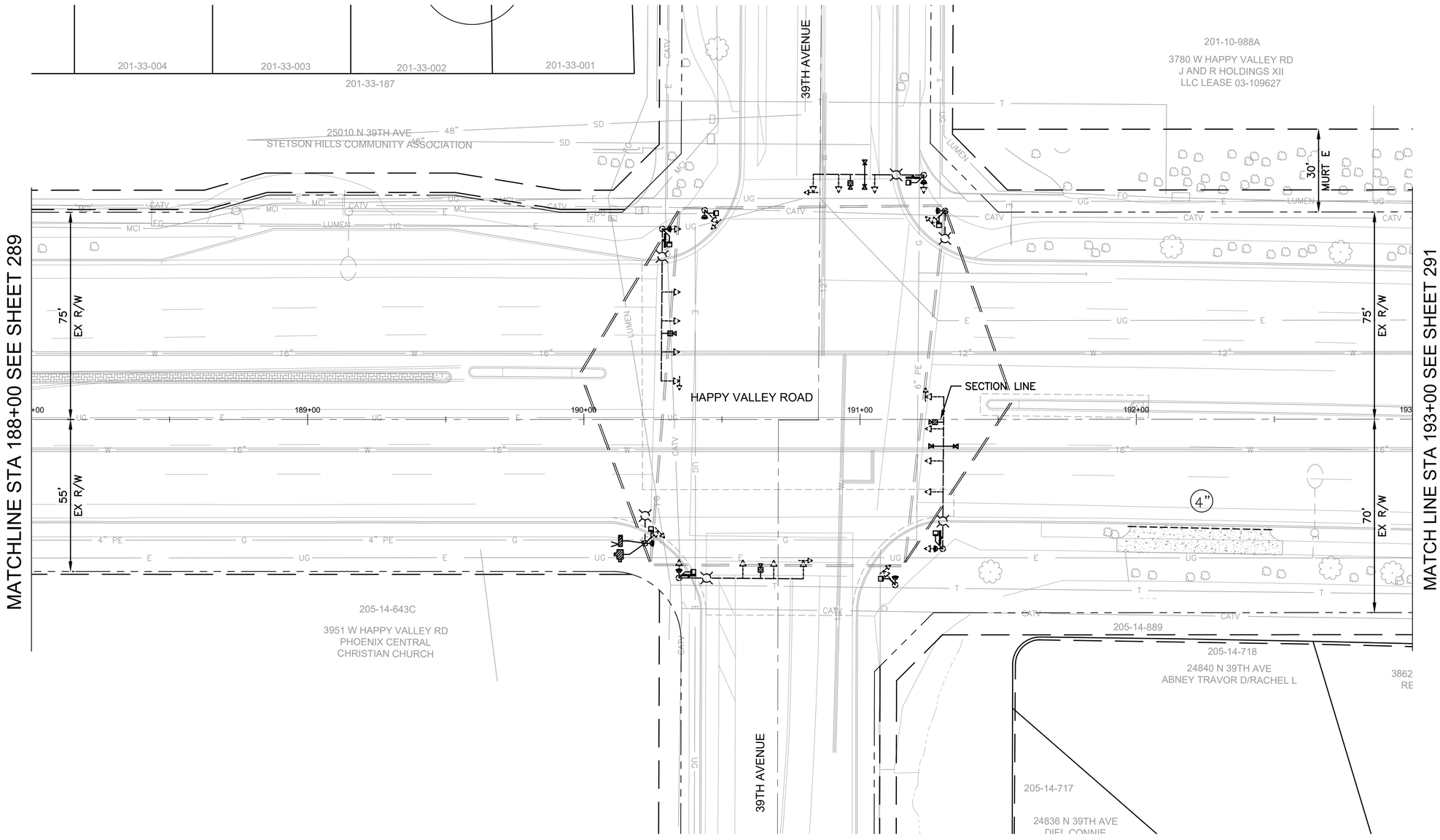
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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D. BY	DATE

SHEET NAME: ST85100437IR36.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	290	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	0 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	0 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	52 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.
1" — Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

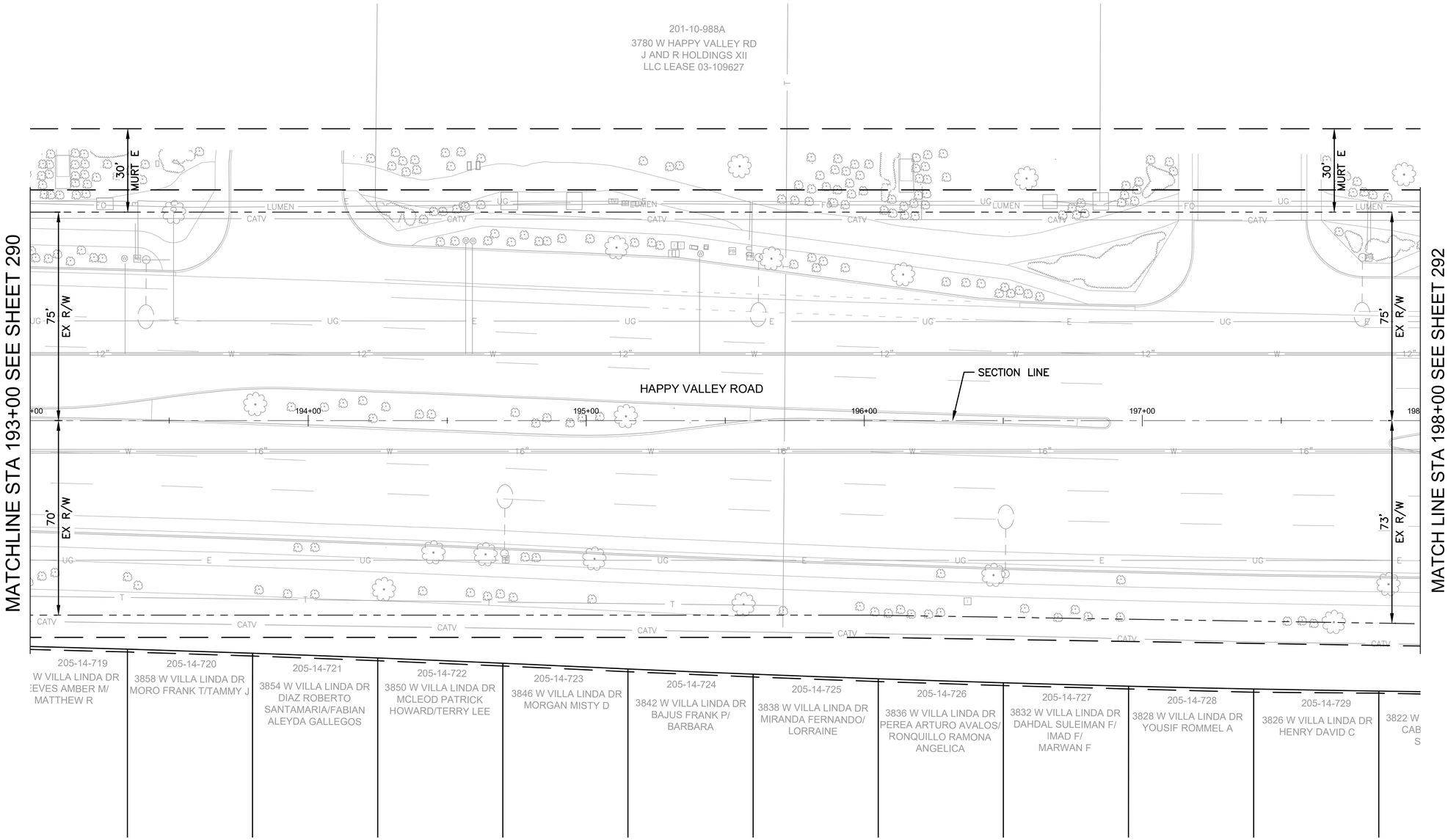
DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.37
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			290 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CK'D BY | DATE

SHEET NAME: ST85100437IR37.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



NO IRRIGATION WORK THIS SHEET

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	291	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	0 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	0 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	0 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 — Valve ID (Controller, Valve #, Type)
1" — Valve Flow in G.P.M.
Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.38
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			291 OF 364

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

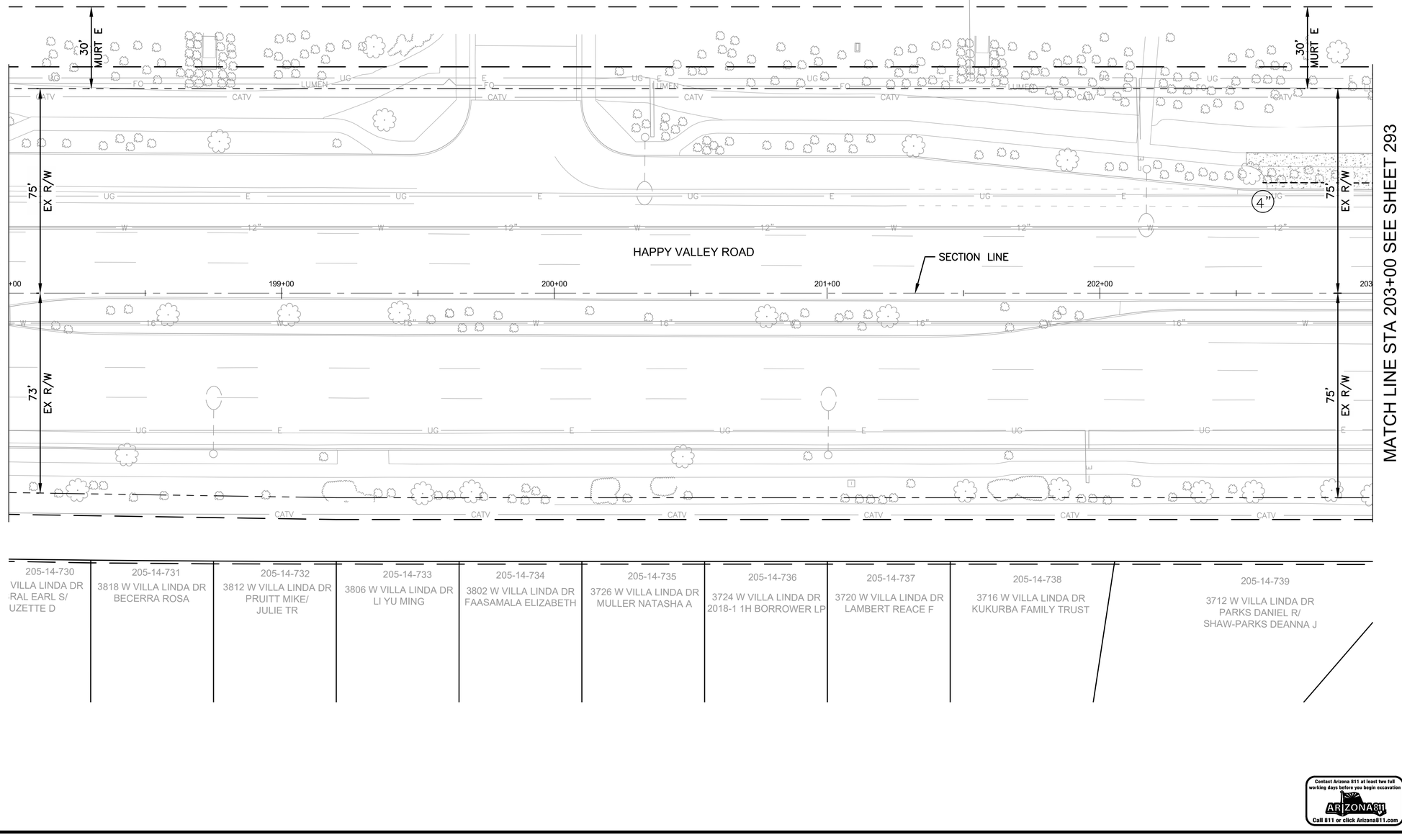
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437IR38.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV. BY	CK'D BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	292	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	0 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	0 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	41 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 — 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.39
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			292 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437IR39.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

REVISION BY CITY OF PHOENIX

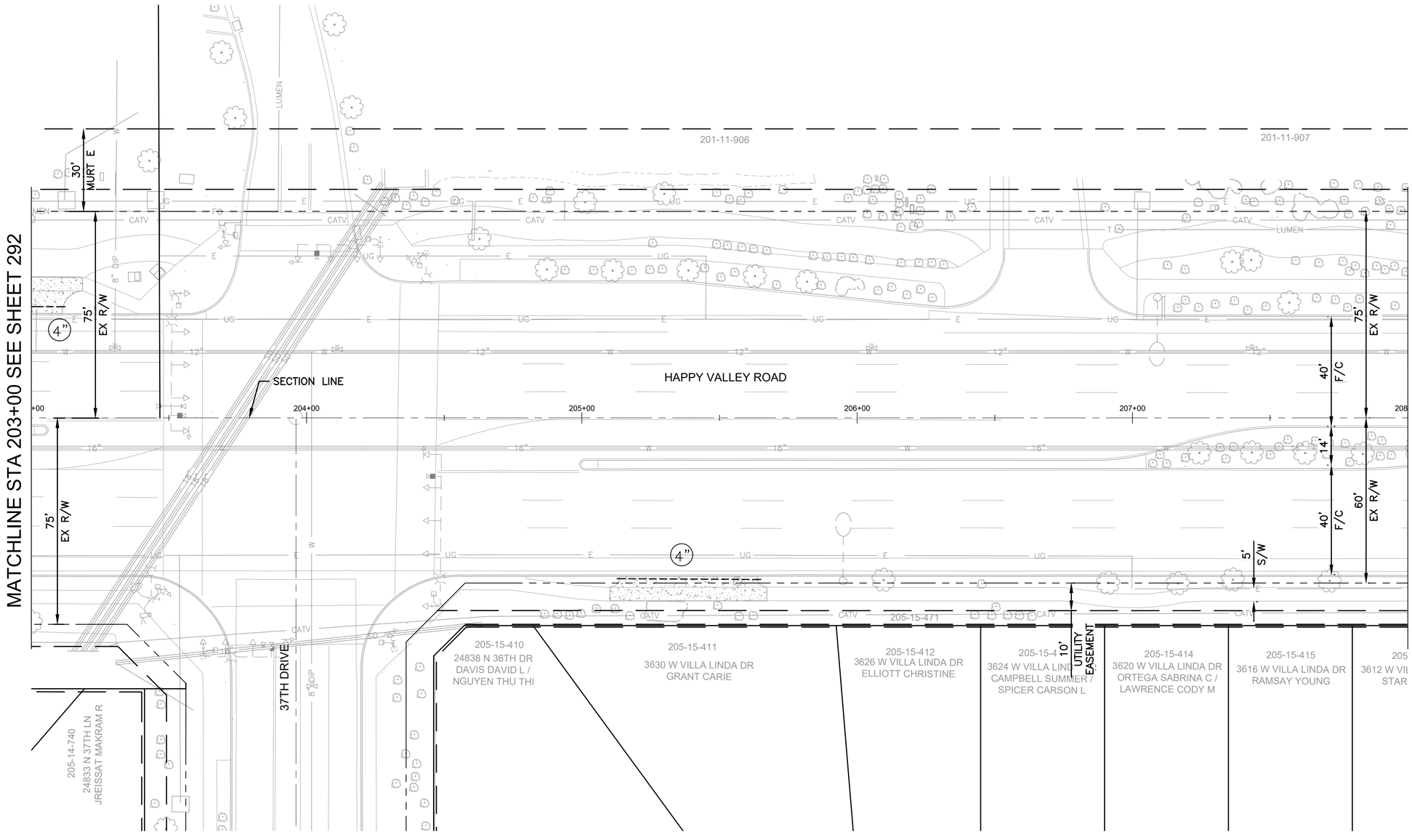
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	293	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	0 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	0 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	63 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 — 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.40
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			293 OF 364

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ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437IR40.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	294	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

REVISION BY CITY OF PHOENIX

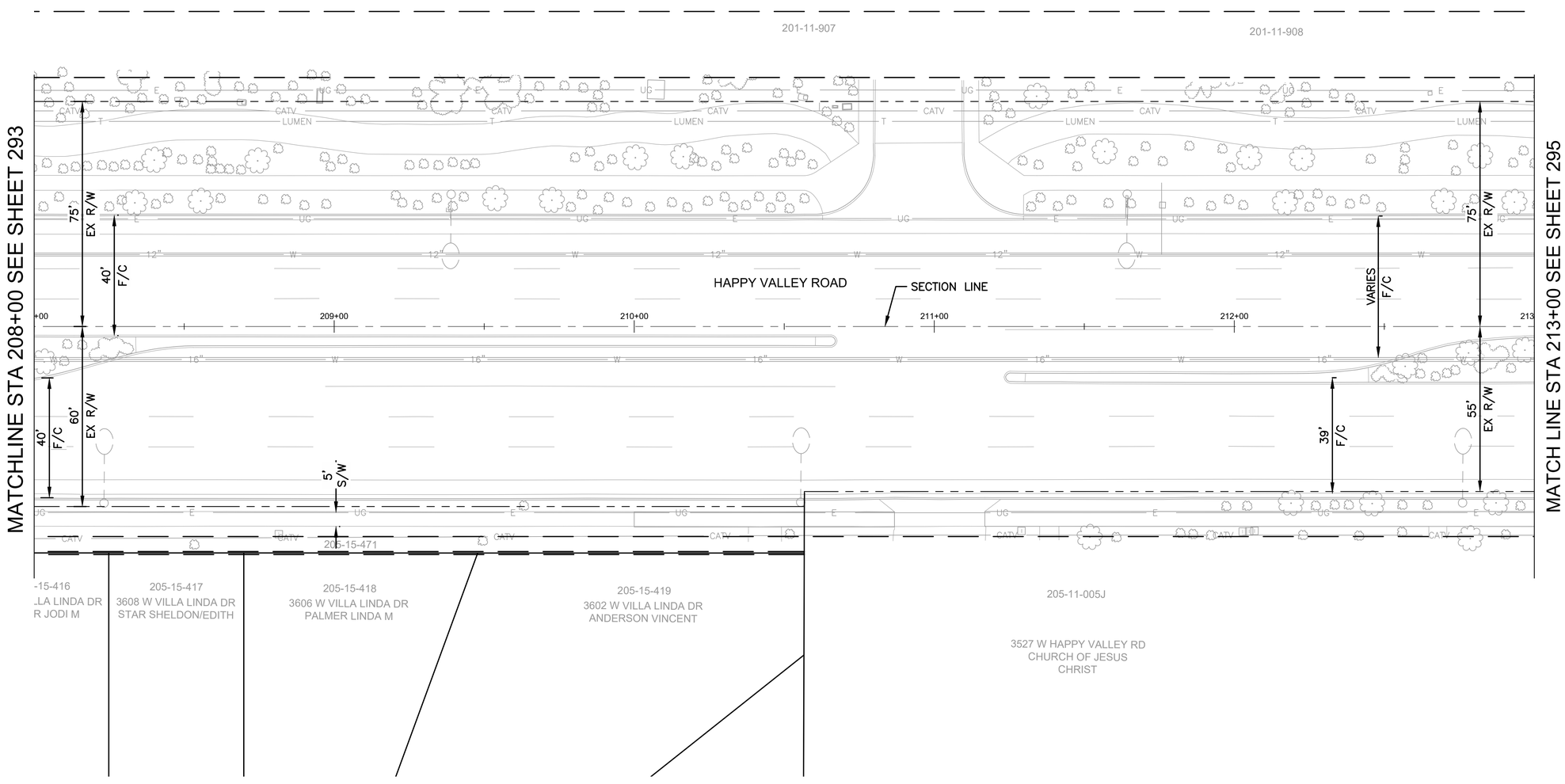
NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE



NO IRRIGATION WORK THIS SHEET

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	0 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	0 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	0 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 1"
- Valve ID (Controller, Valve #, Type)
- Valve Flow in G.P.M.
- Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP | DES:CDW/SEL | CK: SEL
DATE: 05/24 | DATE: 05/24 | DATE: 05/24

DWG. NO. LP–3.41

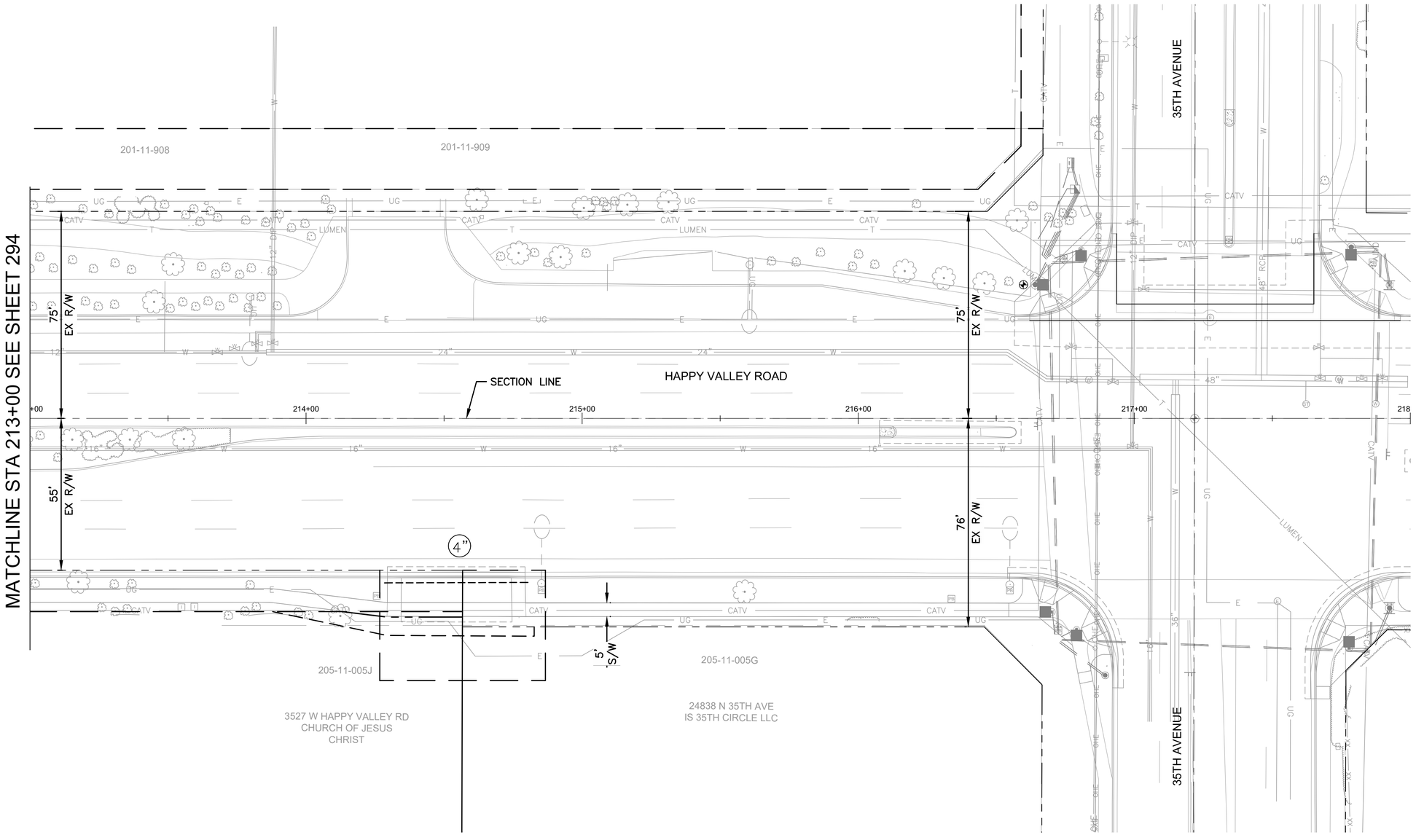
SCALE: 1" = 20' HORIZONTAL

294 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437IR41.DWG, PLOT DATE: 5/23/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	295	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

IRRIGATION LEGEND

Symbol	Description	Qty
M	New 1" Irrigation Water Meter Point of Connection	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1 1/2"	0 Ea
BP	Reduced Pressure Backflow Preventer with Cage - 1"	0 Ea
	Remote Control Valve Assembly (Size per Plan)	0 Ea
	Pressure Regulator Assembly-1"	0 Ea
	Pressure Regulator Assembly-¾"	0 Ea
	Gate Valve - 2"	0 Ea
	Gate Valve - 1 ½"	0 Ea
	Gate Valve - ¾"	0 Ea
F	Flush Valve Assembly	0 Ea
Not Shown	Multi-Outlet Emitter - 6 outlet, See Emitter Schedule	0 Ea
A	Solar Controller - 4 to 6 Sta, Post Mounted w/Cage, I.D. Labeled A thru K.	0 Ea
	Mainline, 2" Sch 40 PVC (or as sized on plan)	0 LF
	Mainline, ¾" Sch 40 PVC	0 LF
	Sub-Main, 1" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Sub-Main, 1 ½" SCH 40 (Between Remote Control Valve & Pressure Regulator)	0 LF
	Drip Laterals, ¾" SCH 40 PVC (or as sized on plan)	0 LF
	Drip Lateral, ½" SCH 40 PVC	0 LF
4"	Sch 40 PVC Sleeve, 4"	52 LF
	Sch 40 PVC Sleeve, 6"	0 LF

D1T 00.0 1" — Valve ID (Controller, Valve #, Type); Valve Flow in G.P.M.; Valve Size

Note: Irrigation is shown diagrammatically. all work is to occur in the landscape areas within the right of way.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP-3.42
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			295 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

SHEET NAME: ST85100437IR42.DWG, PLOT DATE: 5/23/2024

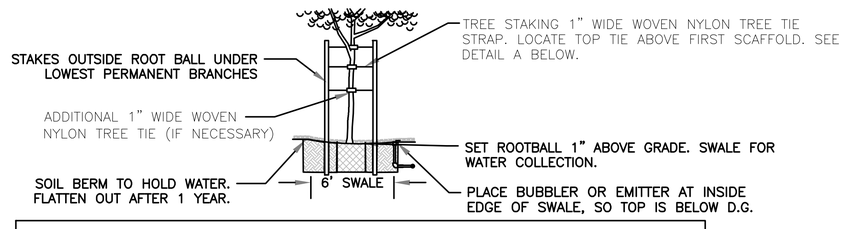
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

PLANTING NOTES:
1. SIDES OF PLANTING PITS ARE TO BE LOOSENED OR RAKED BEFORE SETTING TREE IN PIT.
2. EXCAVATE DEPTH OF PLANTING PIT TO THE SAME DEPTH AS THE ROOTBALL.
3. THE WIDTH OF THE PLANTING PIT SHALL BE 2X THE WIDTH OF THE ROOTBALL
4. GENTLY LOOSEN ROOTS AROUND EXTERIOR OF ROOTBALL.
5. CENTER TREE IN PLANTING PIT.
6. INSPECT ROOT BALLS AT POINT OF PURCHASE TO AVOID PURCHASE OF ROOT BOUND MATERIALS
7. REMOVE ENTIRE CONTAINER FROM ALL PLANTS PRIOR TO PLANTING.
8. NEW TREES SHALL NOT BE PRUNED UNLESS DIRECTED BY OWNER.
9. FORM SWALE AROUND EACH TREE AS SHOWN FOR WATER COLLECTION.
10. REMOVE ALL NURSERY STAKES.

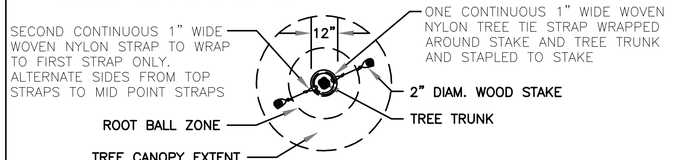
BACKFILL NOTES:
1. PROVIDE MULCH AMENDMENT WITH BACKFILL FOR NON–DESERT TREES.
2. BACKFILL MIX SHALL CONSIST OF 3 PARTS NATIVE SOIL TO 1 PART MULCH. PROVIDE 1 CUP GYPSUM IN BOTTOM OF PLANTING PIT
3. INCLUDE 16:20:0 AMMONIUM PHOSPHATE FERTILIZER IN PLANTING PIT FOR NON DESERT TREES. MIX INTO BACKFILL. DO NOT SPREAD ON TOP OF SOIL.

STAKING NOTES:
1. USE 2– 2" DIA. LODGE POLE STAKES– DOUGLAS FIR OR APPROVED HARDWOOD.
2. DRIVE STAKE MIN 12" INTO FIRM UNDISTURBED SOIL BELOW THE EXCAVATED DEPTH.
3. PLACE STAKES OUTSIDE THE ROOTBALL.
4. HEIGHT OF STAKE MAY VARY DEPENDING ON NEED FOR SUPPORT.
5. PLACE THE TOP TIE FOR MAXIMUM SUPPORT. THE BOTTOM TIE SHOULD BE APPROXIMATELY HALFWAY BETWEEN THE TOP TIE AND GROUND.
6. ALWAYS PLACE STAKE TO PREVENT DAMAGE TO TREE AND CAMBIUM.

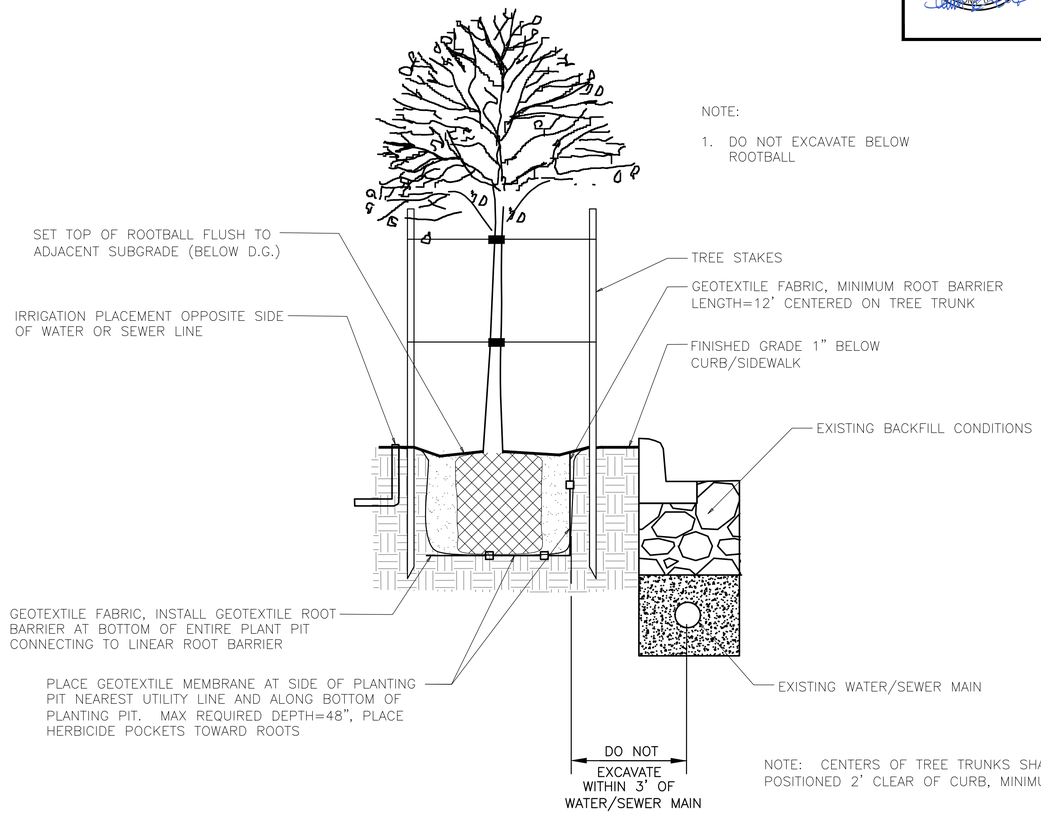
MISC. NOTES:
1. REMOVE ALL PLASTIC TREE TIE TAPE, BAMBOO NURSERY STAKE, WIRE TIES, AND LABELS FROM TREES AFTER THEY HAVE BEEN APPROVED.
2. BACKFILL ANY HOLES LEFT IN ROOTBALL LEFT FROM NURSERY STAKES. BACKFILL SHALL BE CLEAN SOIL, NOT D.G.
3. SWALE SHALL BE A SMOOTH TRANSITION–NO ABRUPT GRADE CHANGES.
4. SWALE SHALL BE WATER TESTED FOR WATER HOLDING CAPACITY PRIOR TO PLACING D.G.
5. PROVIDE ADDITIONAL WIRE HOSE TIE WHEN THE TREE IS NOT RIGIDLY SUPPORTED BY THE TWO REQUIRED SUPPORTS.
6. 2–3" MULCH TOP LAYER, NOT AROUND BASE. 1" D.G. TOP LAYER ALSO SUITABLE.

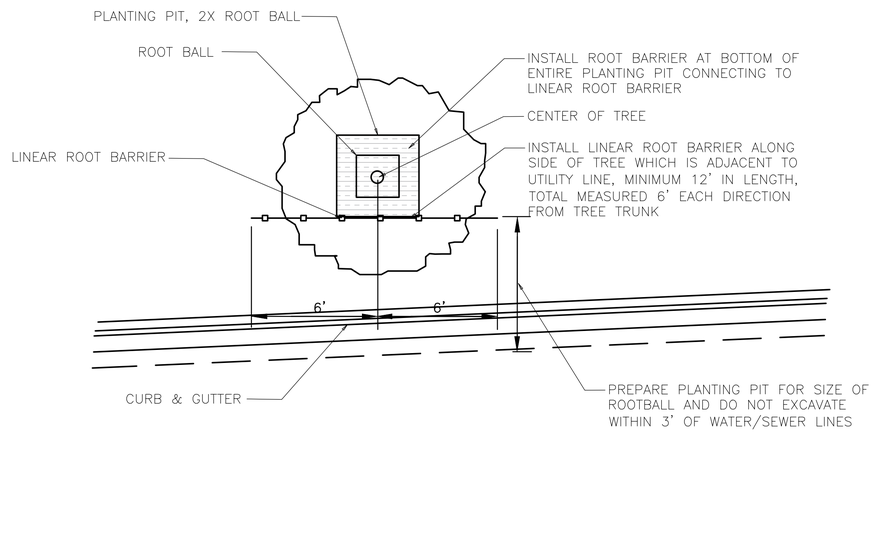


DETAIL A. TREE STAKING AND TIES



1 SINGLE-TRUNK TREE PLANTING & STAKING
NTS





2 TREE ROOT BARRIER
NTS

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

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NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
CERTIFICATE NO.
27437
STEVEN E. LOHIDE
Date Signed: 05/17/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	296	368	

05/2024
DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

LANDSCAPE DETAILS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–4.01
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			296 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SHEET NAME: ST85100437DTL01.DWG, PLOT DATE: 5/24/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	297	368	

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DATE:

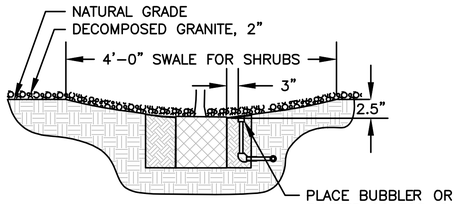
AZTEC TYPE A

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

CERTIFICATE OF PROFESSIONAL LANDSCAPE ARCHITECT
27437
STEVEN E. LOHIDE
Date Signed: 05/23/2024

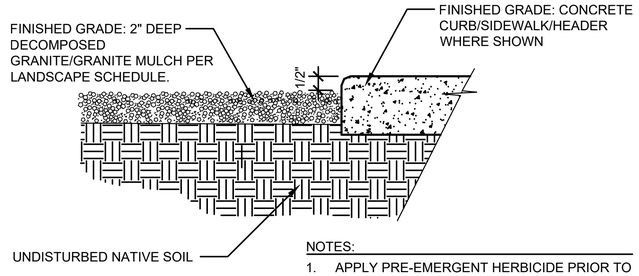
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



NOTES:
1. PLANT PITS SHALL NOT BE AUGER DUG. SIDES OF PIT SHALL BE RAKED TO LOOSEN PRIOR TO SETTING TREE IN PITS.
2. GENTLY LOOSEN ROOTS AROUND EXTERIOR OF ROOTBALL.
3. DO NOT PLANT ROOT BOUND PLANTS. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY TO VERIFY CONDITION OF PLANT IF ANY QUESTION.
4. REMOVE ENTIRE CONTAINER FROM ALL PLANTS PRIOR TO PLANTING.
5. DO NOT PRUNE NEW PLANTS WITHOUT LANDSCAPE ARCHITECT APPROVAL/DIRECTION.
6. PLANTING PIT TO BE 3X THE WIDTH OF THE ROOT BALL. CENTER SHRUB IN PLANTING PIT. DO NOT OVER–EXCAVATE FOR DEPTH OF PLANTING PIT TO AVOID SETTLING. FERTILIZER: 16:20:0 AMMONIUM PHOSPHATE FOR NON DESERT PLANTS. MIX INTO BACKFILL. DO NOT SPREAD ON TOP OF SOIL.

1 SHRUB PLANTING
NTS

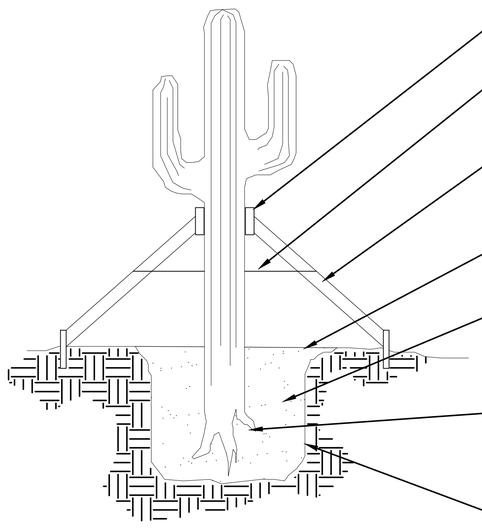


NOTES:
1. APPLY PRE-EMERGENT HERBICIDE PRIOR TO AND FOLLOWING INSTALLATION OF DECOMPOSED GRANITE/GRANITE MULCH.
2. INSTALL PER CITY OF PHOENIX MAG SUPPLEMENTAL SPECIFICATIONS AND MAG STANDARD SPECIFICATIONS.

2 DECOMPOSED GRANITE/GRANITE MULCH
NTS

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



NOTES:

1. OPTIMUM TRANSPLANTING SEASON IS OCTOBER THRU NOVEMBER.

2. MAINTAIN ORIGINAL PLANT ORIENTATION. THE ORIGINAL "NORTH" ORIENTATION SHALL BE MARKED ON A RIG AT A HEIGHT OF 5' ABOVE GROUND LEVEL.

3. WATER THOROUGHLY AT THE TIME OF TRANSPLANTING TO REMOVE AIR POCKETS AND ASSURE PROPER COMPACTION. BACKFILL SHALL BE FREE OF INJURIOUS ROCKS AND DEBRIS.

4. DO NOT WATER FOR 3 WEEKS AFTER PLANTING.

5. PLANT IN AREAS SAFE FROM PRESENT AND FUTURE CONSTRUCTION ACTIVITIES.

6. TRANSPLANT TO ORIGINAL DEPTH OF BURY.

3 SAGUARO PLANTING
NTS

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LANDSCAPE DETAILS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

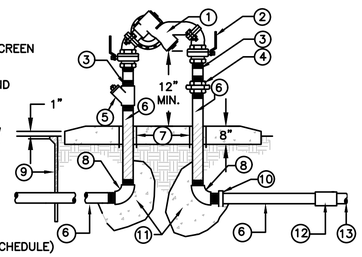
DR: JP	DES: CDW/SEL	CK: SEL	DWG. NO. LP–4.02
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			297 OF 364

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SHEET NAME: ST85100437DTL02.DWG, PLOT DATE: 5/23/2024

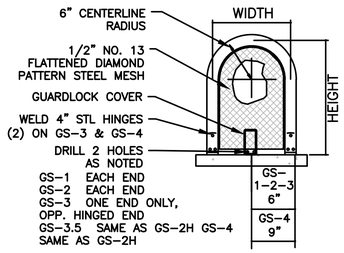
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

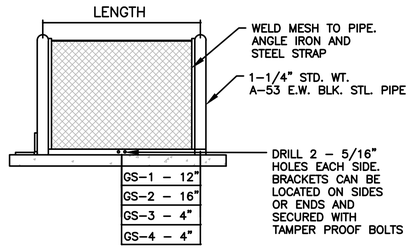
1. REDUCED PRESSURE BACKFLOW PREVENTION UNIT
2. BRONZE SHUT–OFF VALVE
3. BRASS NIPPLE
4. BRONZE UNION
5. BRONZE WYE STRAINER W/40 MESH SCREEN
6. COPPER PIPE (TYPE K HARD) EXTEND 12" BELOW CONCRETE PAD AND WRAP WITH 1" ANTI–CORROSION TAPE
7. PVC SLEEVES
8. BRASS OR COPPER 90 DEGREE ELBOW
9. CONC. METER BOX, INSTALLED BY THE CITY OF PHOENIX
10. SCH. 80 PVC TOE NIPPLE
11. ½ CUBIC FOOT (MIN) CONC. THRUST BLOCK
12. PVC SCH 80 COUPLING
13. PVC MAINLINE PIPE (SEE IRRIGATION SCHEDULE)



NOTE:
1. ON UNITS 3" AND LARGER, ALL COPPER AND BRASS PIPE FITTINGS SHALL BE FLANGED DUCTILE IRON
2. WRAP ALL BURIED COPPER AND BRASS PIPE AND FITTINGS WITH 1" MIN. ANTI–CORROSION TAPE TO A HEIGHT OF 6" ABOVE CONCRETE
3. OBTAIN REQUIRED CERTIFICATIONS PER AGENCY REQUIREMENTS

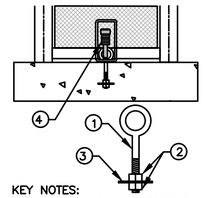
1 REDUCED PRESSURE BACKFLOW PREVENTION UNIT
NTS





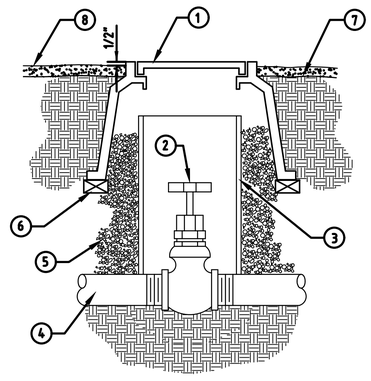
NOTES:
1. AFTER ALL WELDING, ENTIRE UNIT SHALL BE PROCESSED WITH IRON PHOSPHATE PRE–TREATMENT.
2. ELECTROSTATIC APPLICATION OF POWDERCOAT SHALL BE FUSION BONDED – PRS–B–4004–C (BEIGE) OR COLOR SELECTION TO BE APPROVED BY OWNER
3. ALL BOLTS FOR HINGES & HASPS SHALL BE ZINC PLATED & TAMPER PROOF
4. ALL WELDED AREAS SHALL BE A MINIMUM OF 1/4" WIDTH BEAD EVERY 4"
5. GS = POWDERCOATED STEEL GUARD SHACK

COVER FOR LOCKING MECHANISM



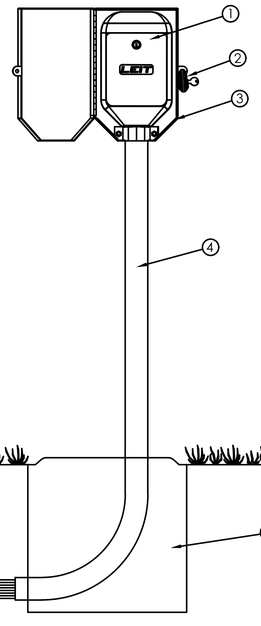
KEY NOTES:
1. 3/8"–16–2 1/2" FORGED EYEBOLT (QTY 2)
2. 3/8"–16 HEX NUT (QTY 4)
3. 3/8" X 1/2" FENDER WASHER (QTY 2)
4. PADLOCK BY OWNER

2 BACKFLOW PREVENTER ENCLOSURE
NTS



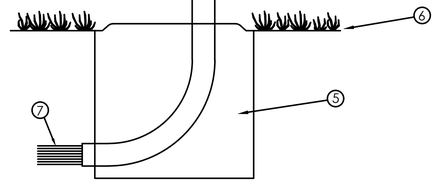
1. VALVE BOX WITH BOLT LOCKING COVER
2. NIBCO T–113 GATE VALVE
3. 6 INCH PVC SEWER PIPE (LENGTH AS REQUIRED)
4. PVC MAIN LINE LATERAL FROM PRESSURE B.F.P.U. OFF METER
5. BACKFILL TO DEPTH OF SEWER PIPE W/3" OF 3/4 INCH WASHED GRAVEL
6. BRICK (1 OF 4)
7. FINISH GRADE
8. DECOMPOSED GRANITE

NOTE:
NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL SIZE OF MAINLINE PIPE

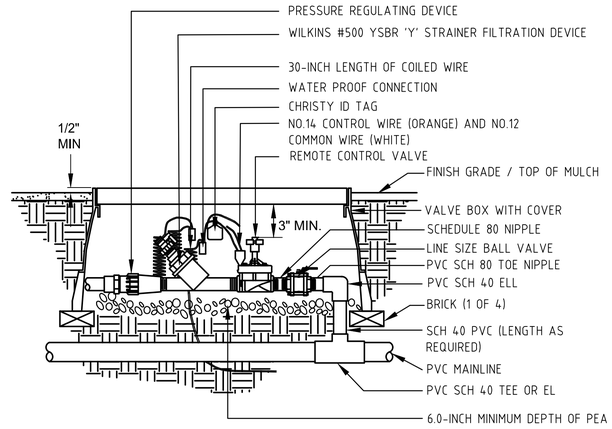


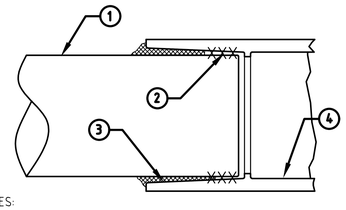
1. LEIT 4 STATION XRC CONTROLLER
2. HIGH SECURITY STAINLESS STEEL DISC–LOCK MODEL 30–405
3. HEAVY–DUTY STAINLESS STEEL ENCLOSURE WITH LIGHT ACCESS THROUGH GRID ON TOP AND INTERNAL CLAMP TO SECURE COLUMN MOUNTING MODEL ENCL X
4. GALVANIZED STEEL MOUNTING COLUMN FOR LEIT XRC
   a. MODEL MCOLX 35" SHORT
5. 12" X 18" CONCRETE BASE USING 90Lb. BAG OF CONCRETE
6. FINISH GRADE
7. DIRECT BURIAL CONTROL WIRES TO CONTROL VALVES.

7 SOLAR CONTROLLER
NTS



3 EMITTER CONTROL VALVE ASSEMBLY
NTS



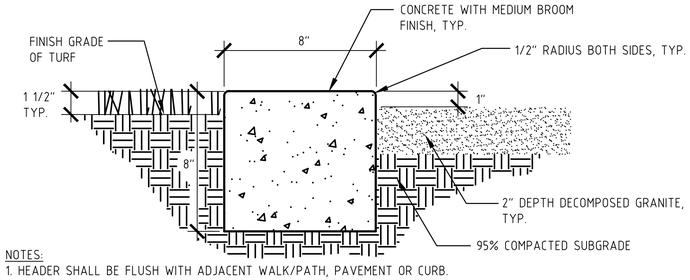


1. PVC PIPE END
2. FUSED SURFACE
3. BONDED SURFACES
4. PVC FITTING SOCKET

NOTES:
1. SOLVENT WELDED JOINTS SHALL BE MADE IN ACCORDANCE TO ASTM D–2855, AND TYPE OF SOLVENT AND PRIMER RECOMMENDED BY PIPE MANUFACTURER SHALL BE USED.
2. APPLICATOR DAUBER SHALL BE 1/2 THE DIAMETER OF THE PIPE BEING JOINED. 2" PIPE = 1" DAUBER.
3. FOLLOW THE FOLLOWING SEQUENCE OF APPLYING PRIMER AND CEMENT.
   A. PRIME BOTH PIPE AND FITTING SOCKET TO BE JOINED.
   B. IMMEDIATELY APPLY A COAT OF CEMENT TO THE PIPE END.
   C. APPLY A LIGHT COAT OF CEMENT TO THE FITTING SOCKET.
   D. ADD A SECOND COAT OF CEMENT TO THE PIPE.
   E. PUSH THE PARTS TOGETHER, ROTATING ONE–EIGTH TO ONE–QUARTER TURN, AND HOLD FOR 30 SECONDS.
4. THE CONTRACTOR SUPERINTENDANT SHALL CONDUCT A FIELD CLASS INSTRUCTING HIS EMPLOYEES ON THE PROPER METHOD. THE SEMINAR SHALL BE HELD ON SITE WITH CITY'S REPRESENTATIVE PRESENT.

5 SOLVENT WELDED PVC JOINTS
NTS

4 ISOLATION VALVE-2.5" & SMALLER
NTS



NOTES:
1. HEADER SHALL BE FLUSH WITH ADJACENT WALK/PATH, PAVEMENT OR CURB.
2. LANDSCAPE ARCHITECT SHALL APPROVE FORMWORK PRIOR TO PLACING CONCRETE.
3. CONCRETE SHALL BE MAG. CLASS "B"
4. EXPANSION JOINTS @ 30', CONTROL JOINTS 10' O.C.
5. STRAIGHT SECTIONS TO MEET CURVED SECTIONS AT TRUE TANGENT POINTS WITH NO BROKEN CURVE SECTIONS.
6. CURVED SECTIONS TO BE FORMED IN SMOOTH, EVEN CURVES AS SHOWN ON PLANS.
7. FORM STAKING SHALL NOT ALLOW DEFORMING OR LEAKING. ALL SPILL OF EXCESS CONCRETE SHALL BE CLEANED UP AND REMOVED FROM SITE BY CONTRACTOR.

6 CONCRETE HEADER
NTS

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

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CERTIFICATE NO. 27437 STEVEN E. LOHIDE — Date Signed 08/31/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	298	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

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IRRIGATION DETAILS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

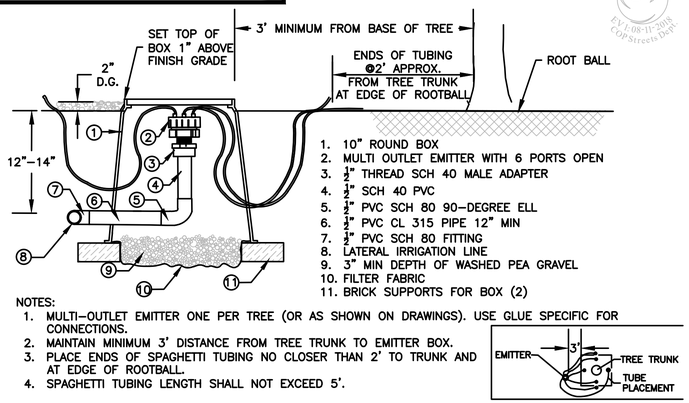
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP	DES:CDW/SEL	CK: SEL	DWG. NO. LP–4.03
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 20' HORIZONTAL			298 OF 364

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SHEET NAME: ST85100437DTL03.DWG, PLOT DATE: 5/23/2024

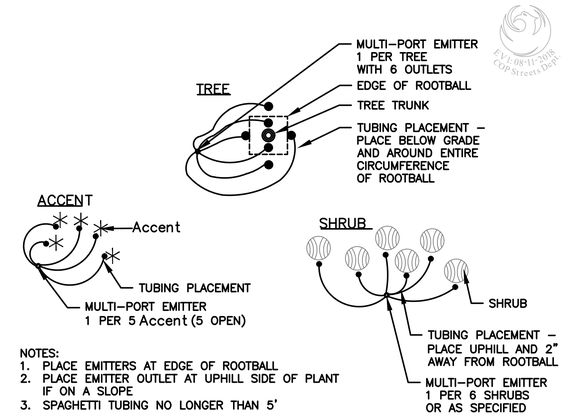
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



1. 10" ROUND BOX
2. MULTI OUTLET EMITTER WITH 6 PORTS OPEN
3. ½" THREAD SCH 40 MALE ADAPTER
4. ½" SCH 40 PVC
5. ½" PVC SCH 80 90–DEGREE ELL
6. ½" PVC CL 315 PIPE 12" MIN
7. ½" PVC SCH 80 FITTING
8. LATERAL IRRIGATION LINE
9. 3" MIN DEPTH OF WASHED PEA GRAVEL
10. FILTER FABRIC
11. BRICK SUPPORTS FOR BOX (2)

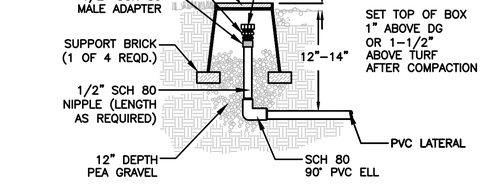
NOTES:
1. MULTI–OUTLET EMITTER ONE PER TREE (OR AS SHOWN ON DRAWINGS). USE GLUE SPECIFIC FOR CONNECTIONS.
2. MAINTAIN MINIMUM 3' DISTANCE FROM TREE TRUNK TO EMITTER BOX.
3. PLACE ENDS OF SPAGHETTI TUBING NO CLOSER THAN 2' TO TRUNK AND AT EDGE OF ROOTBALL.
4. SPAGHETTI TUBING LENGTH SHALL NOT EXCEED 5'.

1 EMITTER-MULTI OUTLET IN BOX
NTS

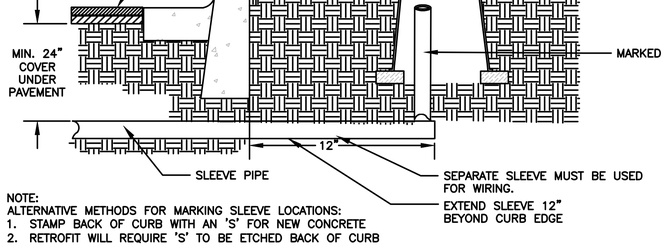


NOTES:
1. PLACE EMITTERS AT EDGE OF ROOTBALL
2. PLACE EMITTER OUTLET AT UPHILL SIDE OF PLANT IF ON A SLOPE
3. SPAGHETTI TUBING NO LONGER THAN 5'

2 EMITTER PLACEMENT
NTS

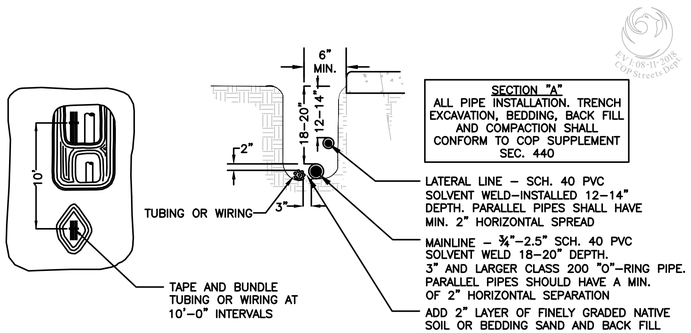


3 MANUAL FLUSH CAP
NTS



NOTE:
ALTERNATIVE METHODS FOR MARKING SLEEVE LOCATIONS:
1. STAMP BACK OF CURB WITH AN 'S' FOR NEW CONCRETE
2. RETROFIT WILL REQUIRE 'S' TO BE ETCHED BACK OF CURB

4 IRRIGATION SLEEVE UNDER PAVEMENT
NTS



NOTES:
1. TOP OF WIRE BUNDLE SHOULD BE 2" BELOW TOP OF PIPE.
2. HORIZONTAL DISTANCE BETWEEN ALL PIPE MIN. 2"
3. ALL PIPING 3" AND LARGER SHALL HAVE 24"–26" OF COVER

5 TRENCHING DETAIL
NTS

EMITTER SCHEDULE

PLANT TYPE	EMITTER	GPH PER OUTLET	NO. OF OUTLETS PER PLANT	TOTAL GPH PER PLANT
TREES	ML220	2.0	6	12
SHRUBS	ML210	1.0	1	1.0
ACCENTS	ML206	0.6	1	0.6

NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MAG STANDARD SPECIFICATIONS AND CITY OF PHOENIX MAG SUPPLEMENTAL SPECIFICATIONS.

6 EMITTER SCHEDULE
NTS

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	299	368	

05/2024 DATE:

AZTEC TYPSA

DRAWN: CDW | DESIGN: CDW/SEL | CHECKED: SEL

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

IRRIGATION DETAILS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: JP | DES:CDW/SEL | CK: SEL
DATE: 05/24 | DATE: 05/24 | DATE: 05/24

DWG. NO. LP–4.04

SCALE: 1" = 20' HORIZONTAL

299 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

REVISION BY CITY OF PHOENIX
NO. | DESCRIPTION | REV BY | CKD BY | DATE

SHEET NAME: ST85100437DTL04.DWG, PLOT DATE: 5/23/2024

PAINT & SIGN:

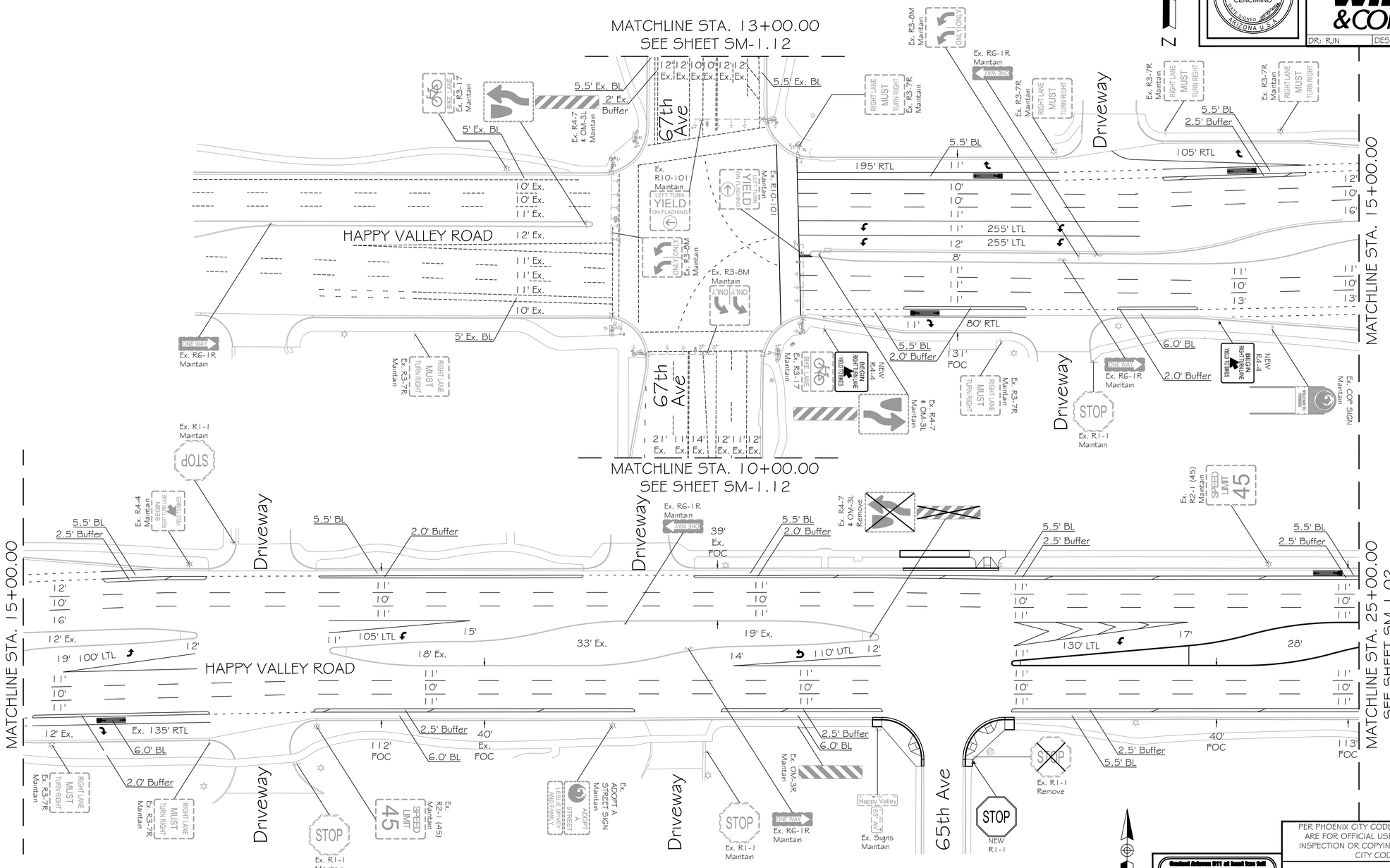
HAPPY VALLEY ROAD - 67TH AVENUE TO 35TH AVENUE

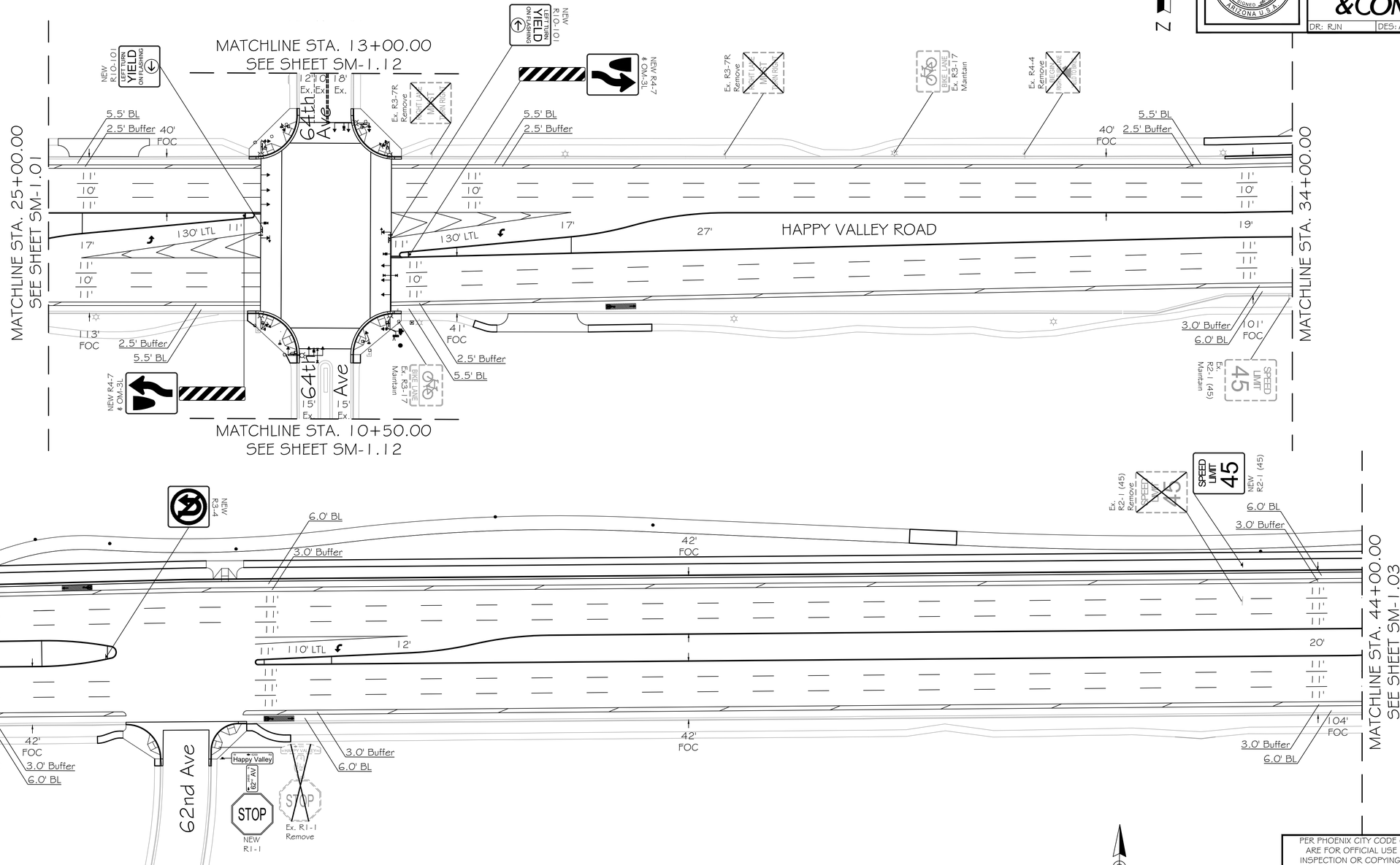
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	300	368

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: RJN	DES: ASF	CK: TJC	DATE: 05/2024


MATCHLINE STA. 13+00.00
SEE SHEET SM-1.12
MATCHLINE STA. 10+00.00
SEE SHEET SM-1.12
MATCHLINE STA. 15+00.00
MATCHLINE STA. 15+00.00
MATCHLINE STA. 25+00.00
SEE SHEET SM-1.02
HAPPY VALLEY ROAD
67th Ave
65th Ave
Driveway
Ex. R1-1 Maintain
STOP
Ex. R1-1 Remove
NEW R1-1
Ex. R3-17 Maintain
BIKE LANE
Ex. R4-7 & OM-3L Maintain
5.5' Ex. BL
2' Ex. Buffer
5' Ex. BL
10' Ex.
10' Ex.
11' Ex.
12' Ex.
11' Ex.
11' Ex.
11' Ex.
10' Ex.
Ex. R10-101 Maintain
LEFT TURN YIELD ON FLASHING
Ex. R3-8M Maintain
ONLY
Ex. R6-1R Maintain
ONE WAY
Ex. R3-7R Maintain
RIGHT LANE MUST TURN RIGHT
Ex. R3-8M Maintain
21' Ex.
14' Ex.
2' Ex.
11' Ex.
12' Ex.
Ex. R6-1R Maintain
AVM-ENG
Ex. R3-8M Maintain
ONLY
5.5' BL
2.5' Buffer
195' RTL
105' RTL
255' LTL
255' LTL
80' RTL
11'
10'
10'
11'
11'
12'
8'
11'
11'
11'
11'
10'
13'
12'
10'
16'
5.5' BL
2.0' Buffer
131' FOC
6.0' BL
2.0' Buffer
NEW R4-4
BEGIN RIGHT LANE MUST TURN RIGHT
Ex. COP SIGN Maintain
Ex. R3-7R Maintain
RIGHT LANE MUST TURN RIGHT



NOTES:

1. Install R2-1 (45), 4 per side per mile, Happy Valley Road - 67th Avenue to 35th Avenue
2. Install R3-17, 2 per side per mile depending on Engineer's judgment
3. Install 4 Bike Symbols per side per mile depending on Engineer's judgement
4. Extend Bike Lane to curb return of intersection or marked crosswalk unless otherwise noted
5. Maintain existing signs unless otherwise noted

PAINT AND SIGN PLAN APPROVAL IS VALID FOR 365 CALENDAR DAYS FROM DATE SIGNED. IF THE NOTIFICATION IS NOT RECEIVED PRIOR TO THE 365 DAYS LAPSING, THE PAIN AND SIGN PLAN MUST BE RE-SUBMITTED FOR APPROVAL OR AN EXTENSION GRANTED BY THE TRAFFIC SERVICES DEPUTY DIRECTOR OR AN AUTHORIZED REPRESENTATIVE TO ENSURE THAT THE PROPOSED PAIN AND SIGN PLAN IS STILL ACCEPTABLE.

THE CITY OF PHOENIX INSPECTOR SHALL NOTIFY THE CITY OF PHOENIX TRAFFIC SERVICES FIELD INVESTIGATOR UNIT (602) 262-4684 A MINIMUM OF FIFTEEN (15) BUSINESS DAYS PRIOR TO HAVING TRAFFIC SIGN AND PAVEMENT WORK COMMENCE

DATE SAVED: 8/11/23
C:\USERS\ERCASTELUM\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WC_PROJECTS\D053C5845\ST85100437SM02.DWG

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	301	368

36634 TODD J. CENCIMINO REGISTERED PROFESSIONAL ENGINEER ARIZONA U.S.A.

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: RJN	DES: ASF	CK: TJC	DATE: 05/2024

PAINT & SIGN:
HAPPY VALLEY ROAD - 67TH AVENUE TO 35TH AVENUE

PER PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE FURNISHED FOR INSPECTION OR COPYING, EXCEPT AS SPECIFICALLY STATED IN THE CITY CODE, OR AS REQUIRED BY LAW

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or visit Arizona811.com

APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

PAINT & SIGN PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

PROJECT #: ST85100437			FILE NO: SM-1.02	
DR: RJN	DES: ASF	CK: TJC	SHEET NO:	TOTAL SHEETS
DATE: 05/24	DATE: 05/24	DATE: 05/24		
SCALE: 1" = 40'		QS. #:	2	12

PROJECT #: ST85100437
FILE #: 115891

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	302	368

36634 TODD J. CENCIMINO — DATE SIGNED — ARIZONA U.S.A.

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

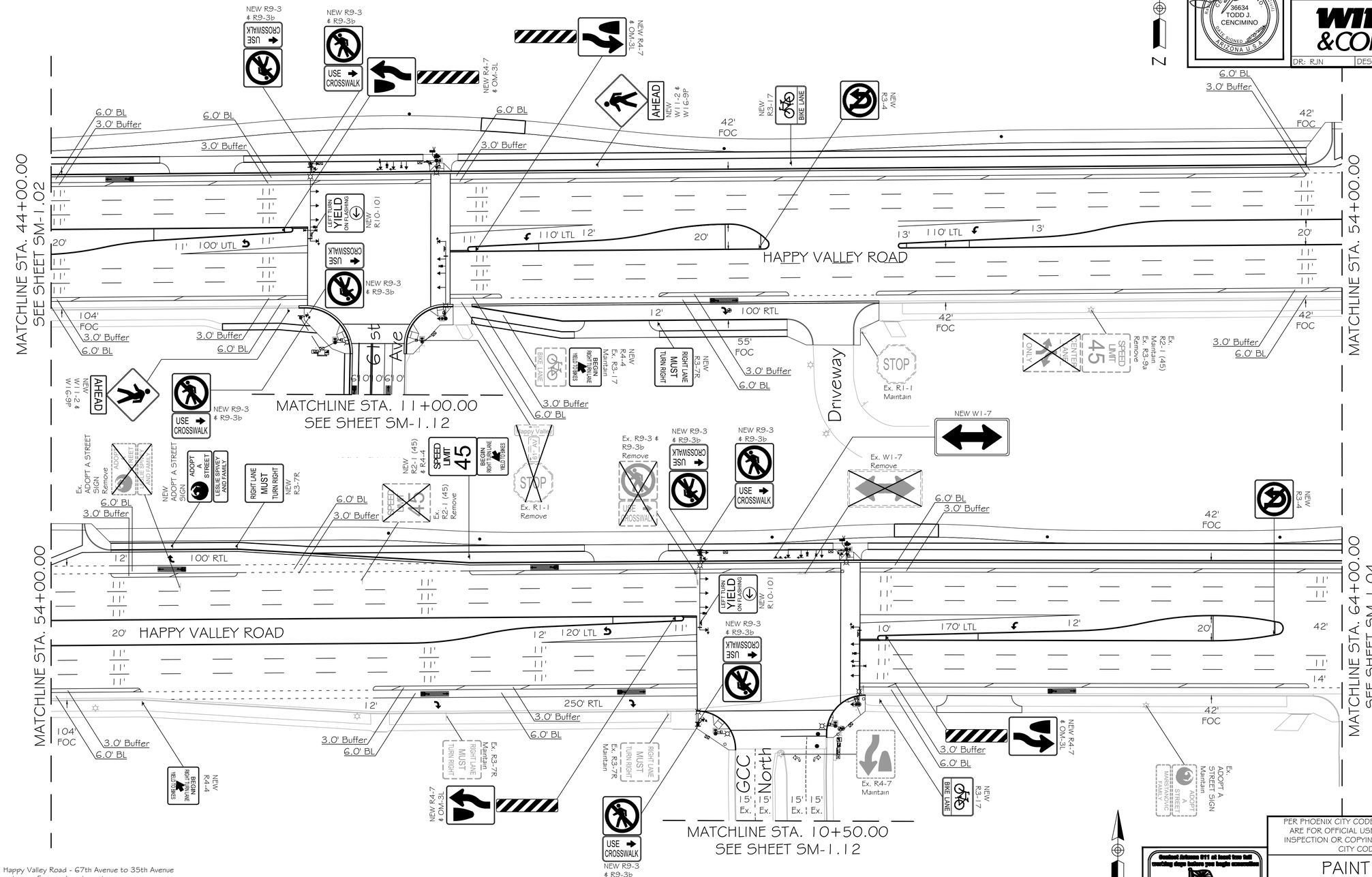
DR: RJN	DES: ASF	CK: TJC	DATE: 05/2024

PAINT & SIGN:

HAPPY VALLEY ROAD - 67TH AVENUE TO 35TH AVENUE

PROJECT #: ST85100437

FILE #: 11589



NOTES:

1. Install R2-1 (45), 4 per side per mile, Happy Valley Road - 67th Avenue to 35th Avenue
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DATE SAVED: 8/8/23
C:\USERS\ERCASTELUM\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WC_PROJECTS\D053C5845\ST85100437SM03.DWG

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ARIZONA811
Call 811 or click Arizona811.com

APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE: _____

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE: _____

PAINT & SIGN PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

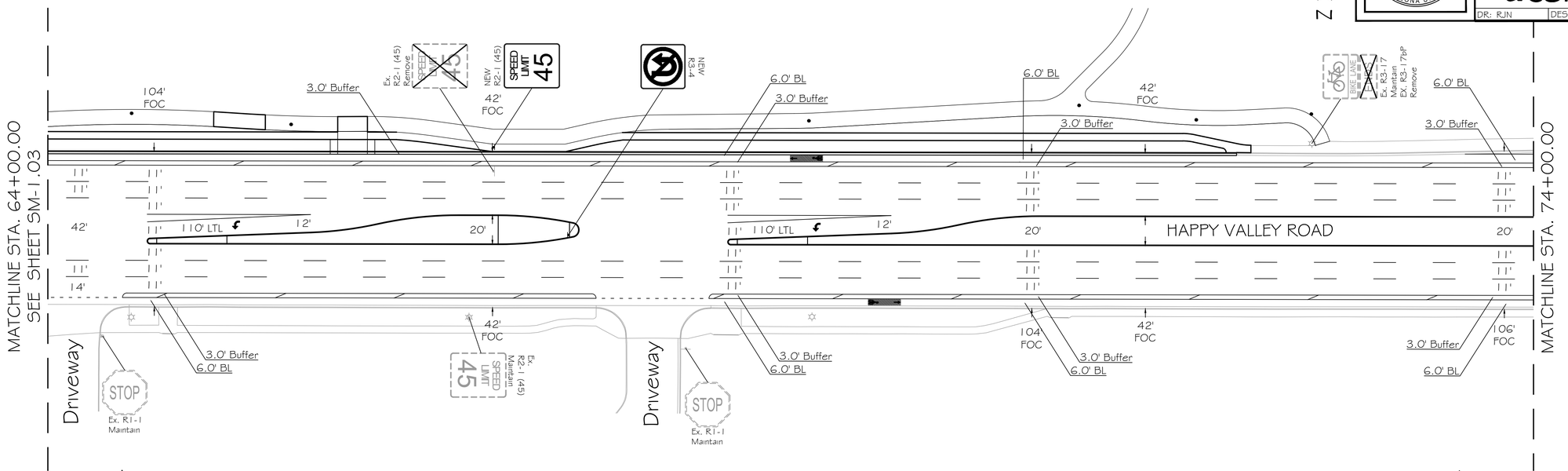
PROJECT #: ST85100437			FILE NO: SM-1.03	
DR: RJN	DES: ASF	CK: TJC	SHEET NO:	TOTAL SHEETS
DATE: 05/24	DATE: 05/24	DATE: 05/24		
SCALE: 1" = 40'		QS. #:	3	12

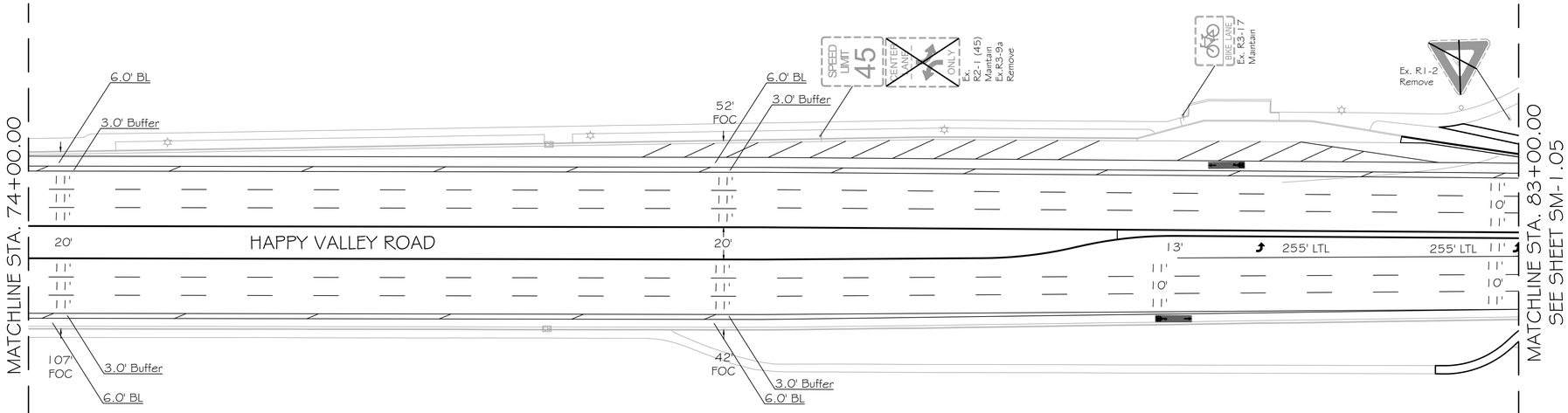
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	303	368

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: RJN	DES: ASF	CK: TJC	DATE: 05/2024





NOTES:

1. Install R2-1 (45), 4 per side per mile, Happy Valley Road - 67th Avenue to 35th Avenue
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DATE SAVED: 8/8/23
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ARIZONA811
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APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE:

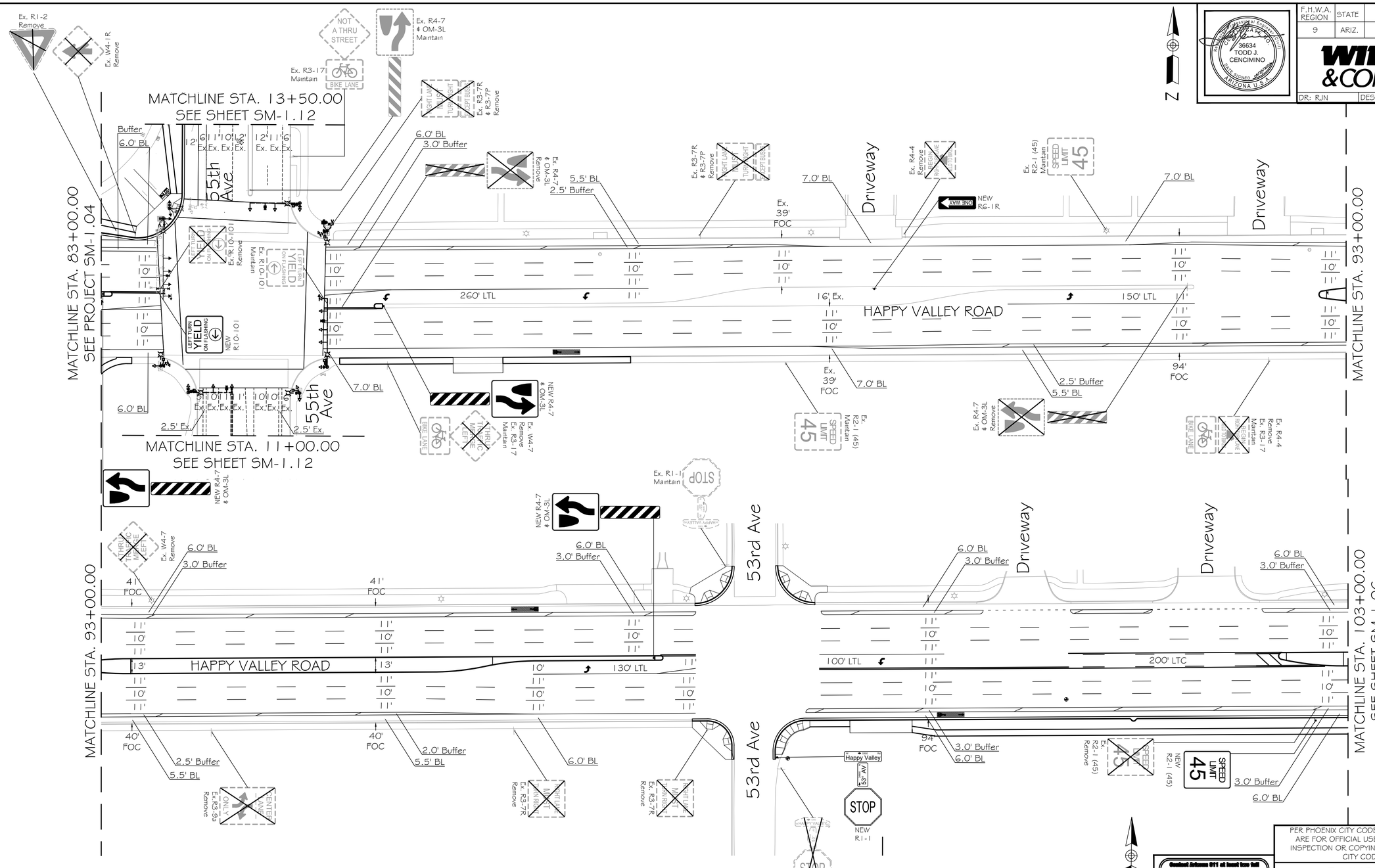
STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

PAINT & SIGN PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

PROJECT #: ST85100437			FILE NO: SM-1.04	
DR: RJN	DES: ASF	CK: TJC	SHEET NO:	TOTAL SHEETS
DATE: 05/24	DATE: 05/24	DATE: 05/24		
SCALE: 1" = 40'		QS. #:	4	12



NOTES:

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DATE SAVED: 8/9/23
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F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	304	368

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

WILSON & COMPANY — 410 North 44th Street, Suite 460, Phoenix, Arizona 85008

DR: RJN	DES: ASF	CK: TJC	DATE: 05/2024

PAINT & SIGN: HAPPY VALLEY ROAD - 67TH AVENUE TO 35TH AVENUE

PROJECT #: ST85100437

FILE #: 11589

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APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE: _____

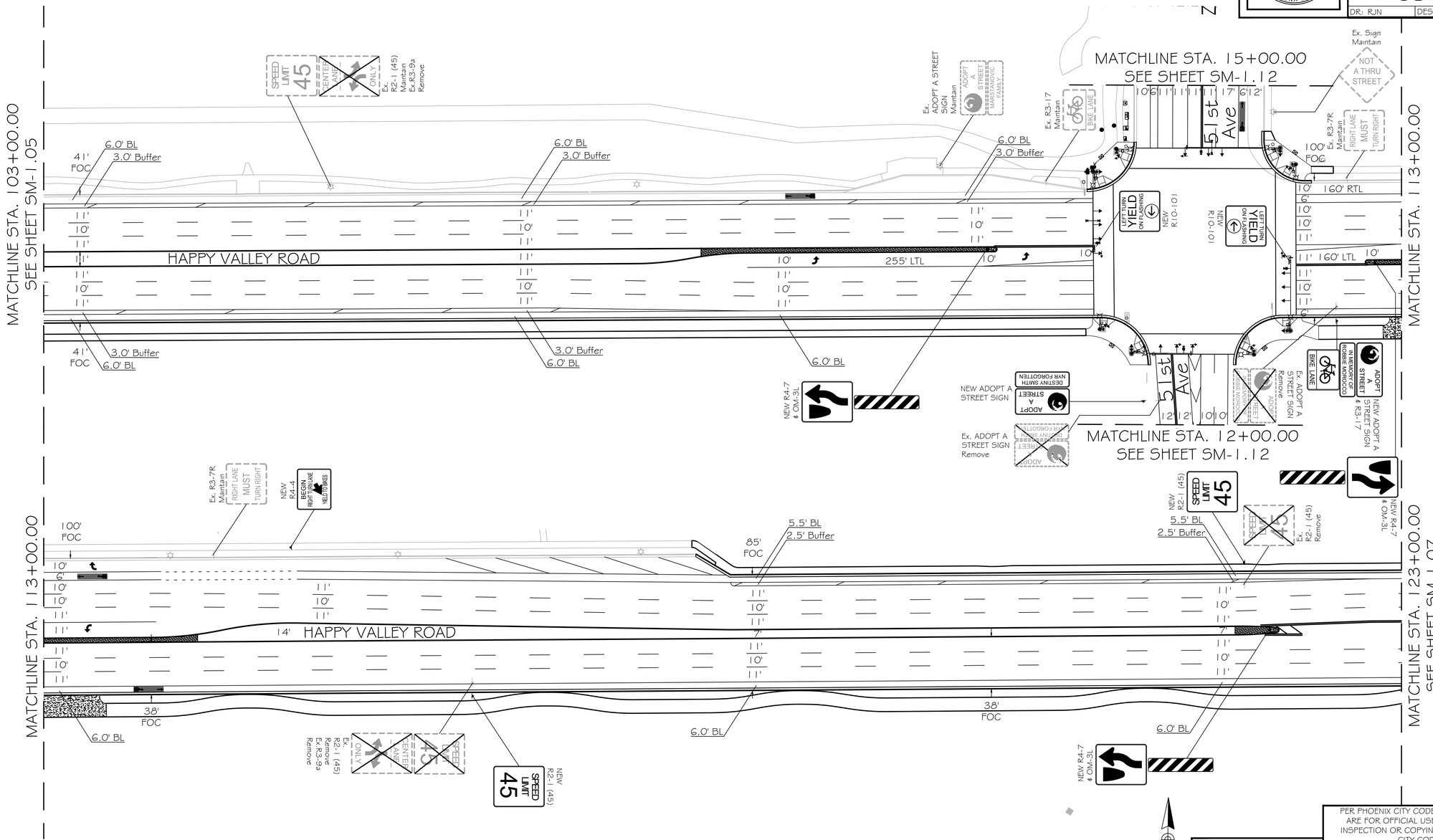
STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE: _____

PAINT & SIGN PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

PROJECT #: ST85100437			FILE NO: SM-1.05	
DR: RJN	DES: ASF	CK: TJC	SHEET NO:	TOTAL SHEETS
DATE: 05/24	DATE: 05/24	DATE: 05/24		
SCALE: 1" = 40'		QS. #:	5	12



NOTES:

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DATE SAVED: 8/9/23

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36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	305	368

WILSON & COMPANY — 410 North 44th Street, Suite 460, Phoenix, Arizona 85008

DR: RJN	DES: ASF	CK: TJC	DATE: 05/2024

PAINT & SIGN:

HAPPY VALLEY ROAD - 67TH AVENUE TO 35TH AVENUE

PROJECT #: ST85100437

FILE #: 115891

Contact Arizona 811 at least two full working days before you begin excavation. ARIZONA811 Call 811 or click Arizona811.com

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PAINT & SIGN PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

PROJECT #: ST85100437			FILE NO: SM-1.06	
DR: RJN	DES: ASF	CK: TJC	SHEET NO:	TOTAL SHEETS
DATE: 05/24	DATE: 05/24	DATE: 05/24		
SCALE: 1" = 40'		QS. #:	6	12

PAINT & SIGN:

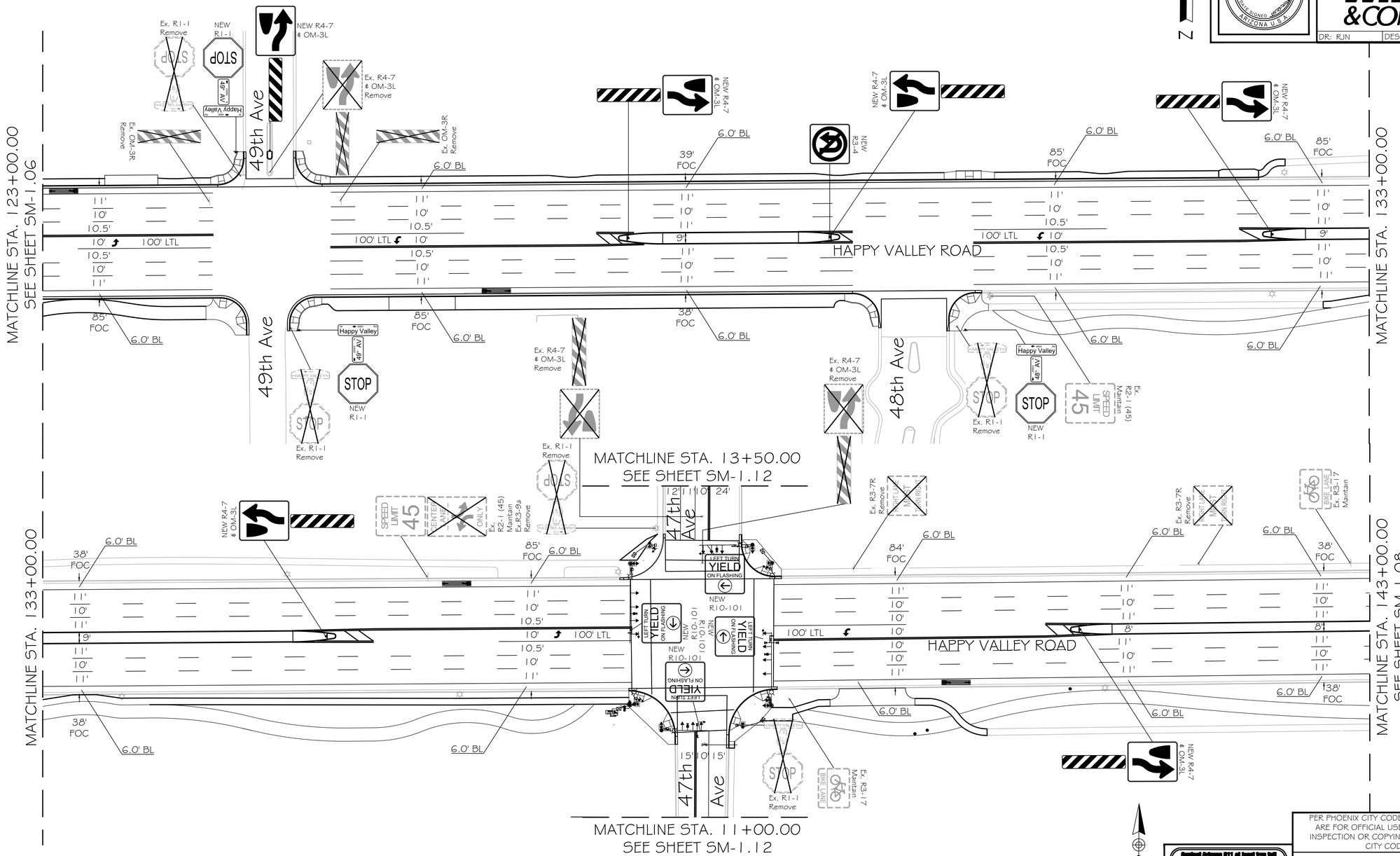
HAPPY VALLEY ROAD - 67TH AVENUE TO 35TH AVENUE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	306	368

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

36634
TODD J.
CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.

DR: RJN	DES: ASF	CK: TJC	DATE: 05/2024



NOTES:

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DATE SAVED: 10/31/23

C:\USERS\ERCASTELUM\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WC_PROJECTS\D053C584-\ST85100437SM07.DWG

PER PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE FURNISHED FOR INSPECTION OR COPYING, EXCEPT AS SPECIFICALLY STATED IN THE CITY CODE, OR AS REQUIRED BY LAW

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ARIZONA811
Call 811 or click Arizona811.com

APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

PAINT & SIGN PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

PROJECT #: ST85100437			FILE NO: SM-1.07	
DR: RJN	DES: ASF	CK: TJC	SHEET NO:	TOTAL SHEETS
DATE: 05/24	DATE: 05/24	DATE: 05/24		
SCALE: 1" = 40'		QS. #:	7	12

PROJECT #: ST85100437

FILE #: 11589

PAINT & SIGN:

HAPPY VALLEY ROAD - 67TH AVENUE TO 35TH AVENUE

PROJECT #: ST85100437

FILE #: 11589

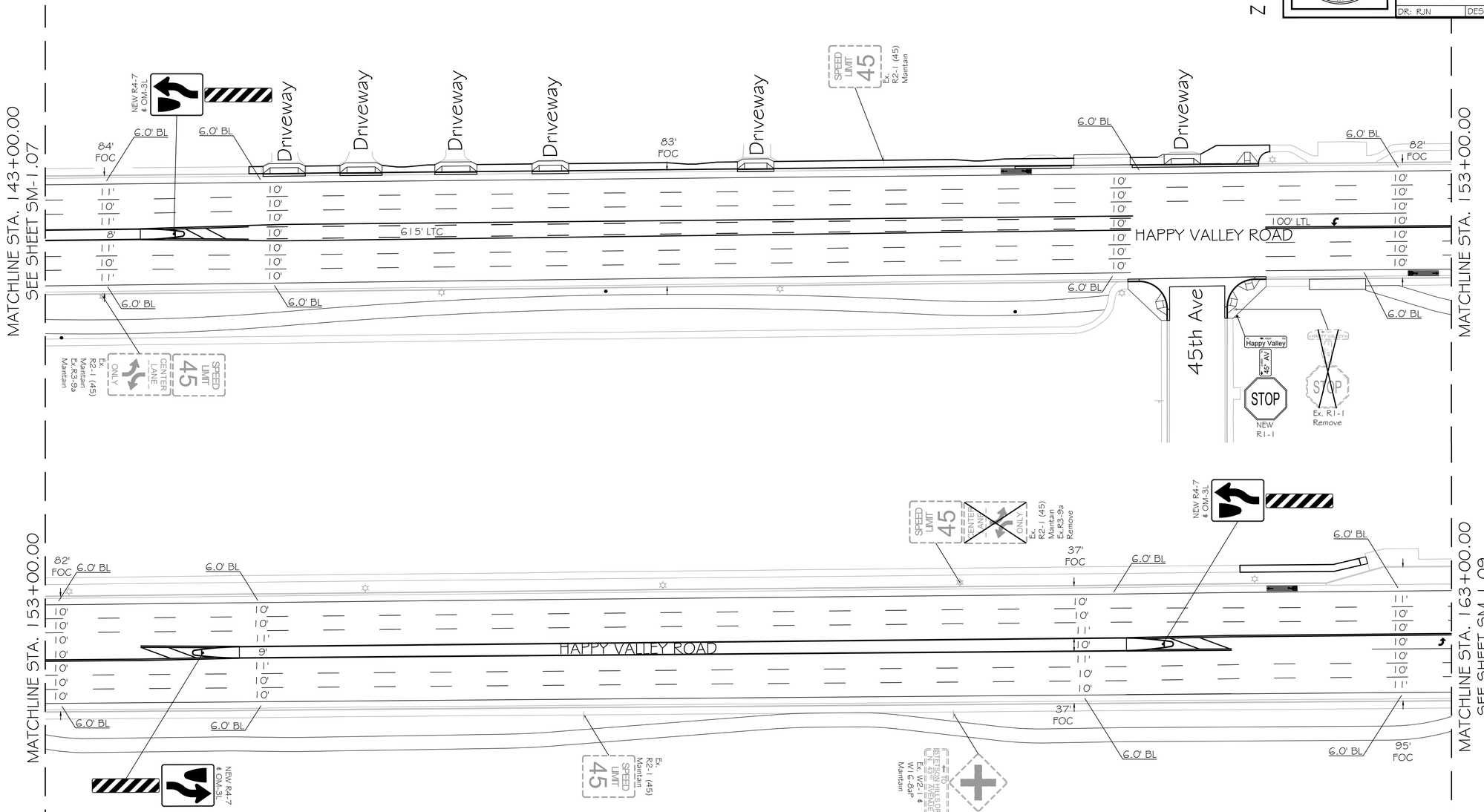
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST87210022	307	368

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: RJN	DES: ASF	CK: TJC	DATE: 05/2024

N

36634
TODD J.
CENCIMINO
DATE SIGNED
ARIZONA U.S.A.



NOTES:

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N

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ARIZONA811
Call 811 or click Arizona811.com

APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

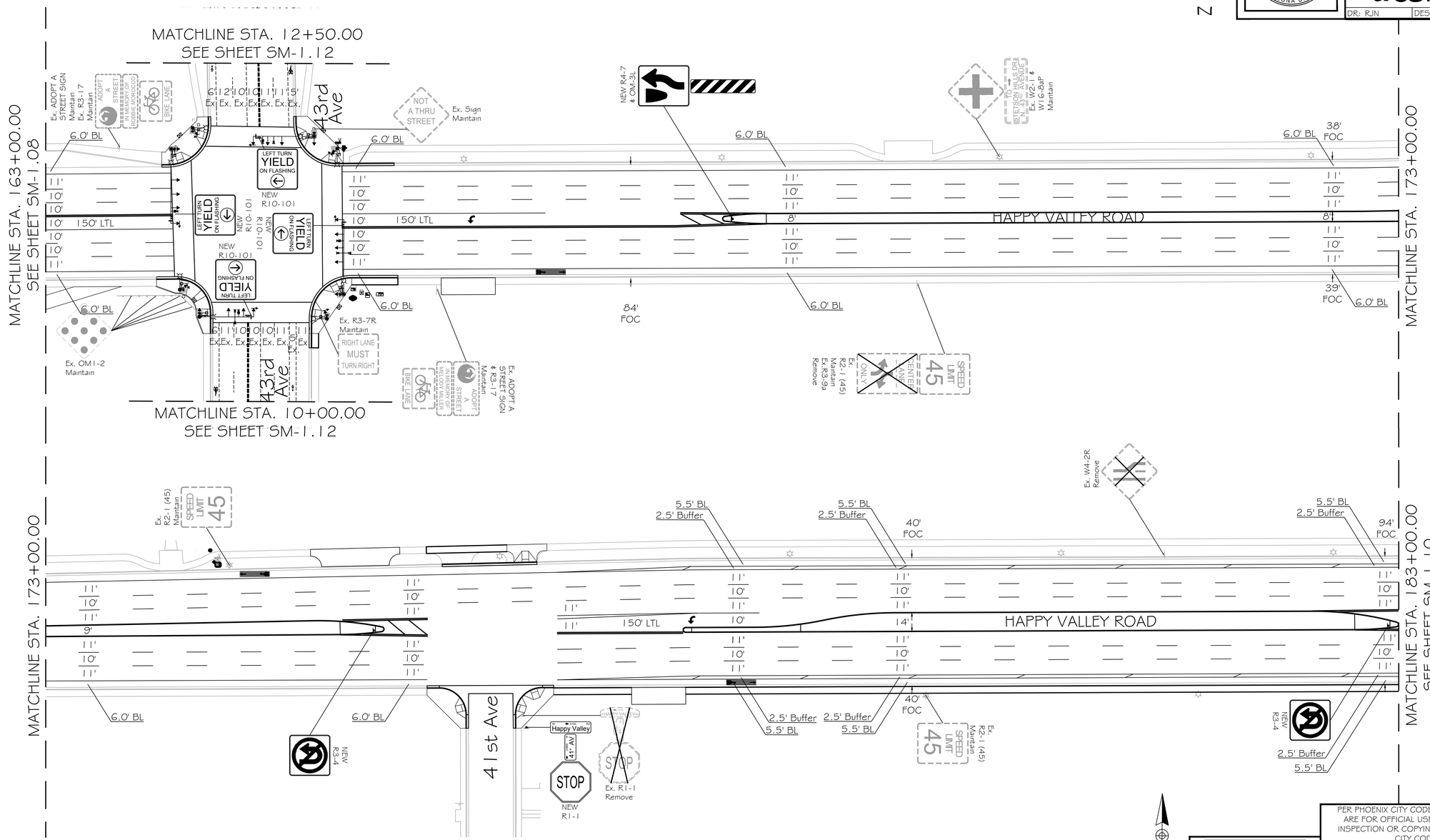
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PAINT & SIGN PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

PROJECT #: ST85100437			FILE NO: SM-1.08	
DR: RJN	DES: ASF	CK: TJC	SHEET NO:	TOTAL SHEETS
DATE: 05/24	DATE: 05/24	DATE: 05/24		
SCALE: 1" = 40'		QS. #:	8	12



NOTES:

1. Install R2-1 (45), 4 per side per mile, Happy Valley Road - 67th Avenue to 35th Avenue
2. Install R3-17, 2 per side per mile depending on Engineer's judgment
3. Install 4 Bike Symbols per side per mile depending on Engineer's judgement
4. Extend Bike Lane to curb return of intersection or marked crosswalk unless otherwise noted
5. Maintain existing signs unless otherwise noted

PAINT AND SIGN PLAN APPROVAL IS VALID FOR 365 CALENDAR DAYS FROM DATE SIGNED. IF THE NOTIFICATION IS NOT RECEIVED PRIOR TO THE 365 DAYS LAPSING, THE PAIN AND SIGN PLAN MUST BE RE-SUBMITTED FOR APPROVAL OR AN EXTENSION GRANTED BY THE TRAFFIC SERVICES DEPUTY DIRECTOR OR AN AUTHORIZED REPRESENTATIVE TO ENSURE THAT THE PROPOSED PAIN AND SIGN PLAN IS STILL ACCEPTABLE.

THE CITY OF PHOENIX INSPECTOR SHALL NOTIFY THE CITY OF PHOENIX TRAFFIC SERVICES FIELD INVESTIGATOR UNIT (602) 262-4684 A MINIMUM OF FIFTEEN (15) BUSINESS DAYS PRIOR TO HAVING TRAFFIC SIGN AND PAVEMENT WORK COMMENCE

DATE SAVED: 10/31/23

C:\USERS\ERCASTELLUM\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WC1_PROJECTS\D053C58-I\ST85100437SM00.DWG

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	308	368

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: RJN	DES: ASF	CK: TJC	DATE: 05/2024

PAINT & SIGN:

HAPPY VALLEY ROAD - 67TH AVENUE TO 35TH AVENUE

PROJECT #: ST85100437

FILE #: 11589

PER PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE FURNISHED FOR INSPECTION OR COPYING, EXCEPT AS SPECIFICALLY STATED IN THE CITY CODE, OR AS REQUIRED BY LAW

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ARIZONA811
Call 811 or click Arizona811.com

APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE:

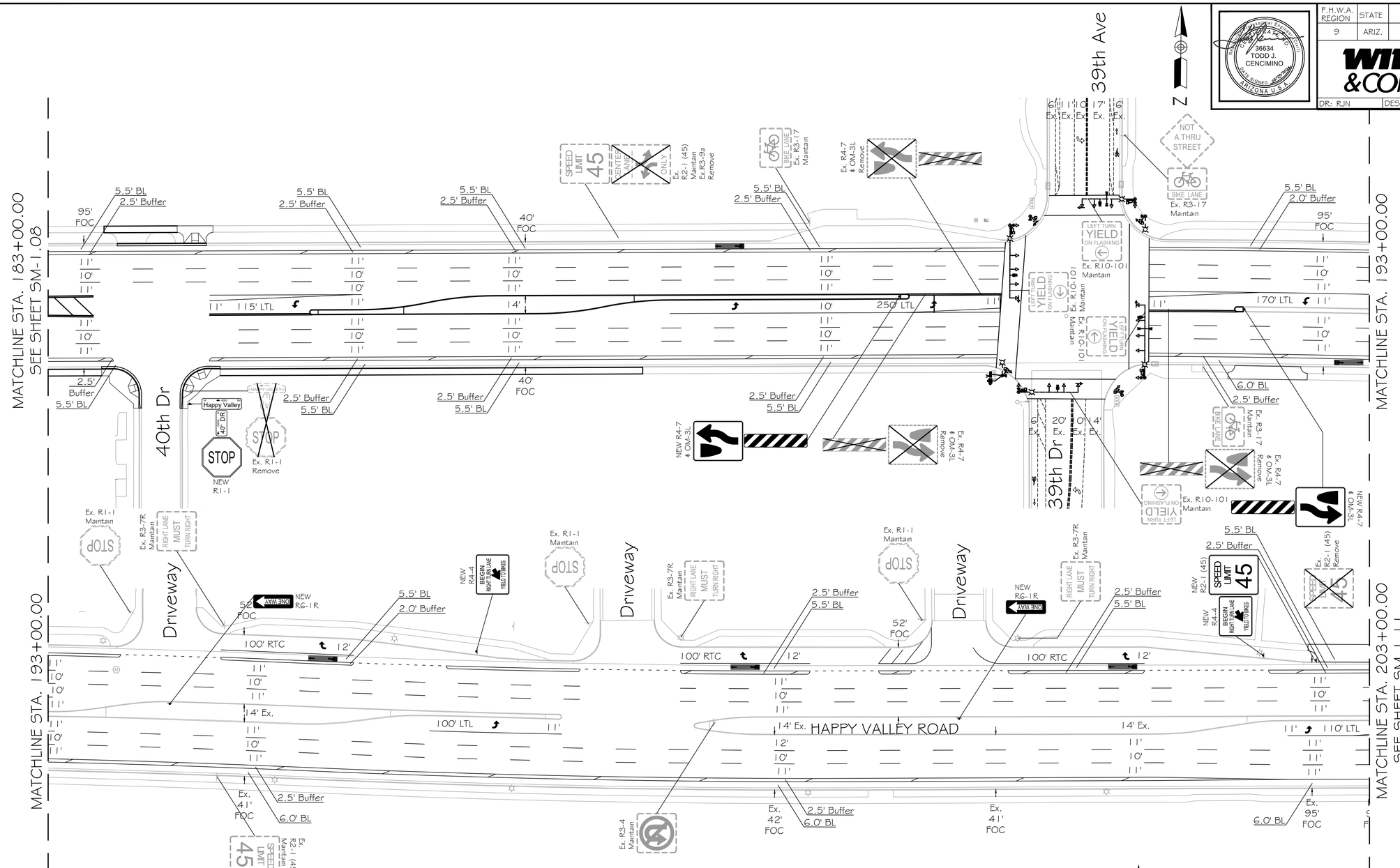
STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

PAINT & SIGN PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

PROJECT #: ST85100437			FILE NO: SM-1.09
DR: RJN	DES: ASF	CK: TJC	SHEET NO: 9 / TOTAL SHEETS 12
DATE: 05/24	DATE: 05/24	DATE: 05/24	
SCALE: 1" = 40'		QS. #:	



NOTES:

1. Install R2-1 (45), 4 per side per mile, Happy Valley Road - 67th Avenue to 35th Avenue
2. Install R3-17, 2 per side per mile depending on Engineer's judgment
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DATE SAVED: 10/31/23
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F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	309	368

36634 TODD J. CENCIMINO — REGISTERED PROFESSIONAL ENGINEER — ARIZONA U.S.A.

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: RJN	DES: ASF	CK: TJC	DATE: 05/2024

PAINT & SIGN:
HAPPY VALLEY ROAD - 67TH AVENUE TO 35TH AVENUE

PROJECT #: ST85100437
FILE #: 11589

PER PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE FURNISHED FOR INSPECTION OR COPYING, EXCEPT AS SPECIFICALLY STATED IN THE CITY CODE, OR AS REQUIRED BY LAW

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ARIZONA811
Call 811 or click Arizona811.com

APPROVED BY:

TRAFFIC SERVICES ENGINEER: _____ DATE: _____

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR: _____ DATE: _____

PAINT & SIGN PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

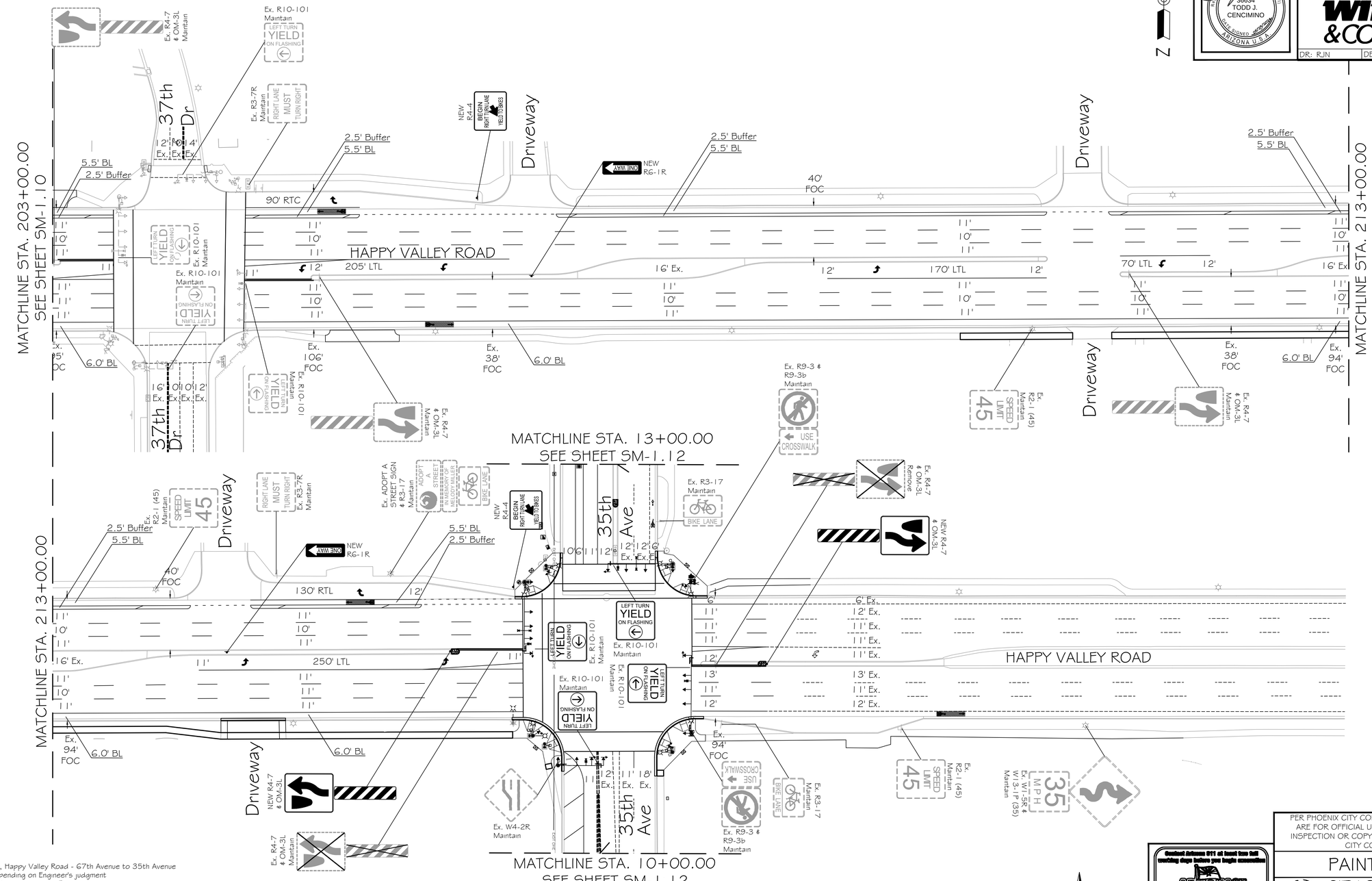
PROJECT #: ST85100437			FILE NO: SM-1.10	
DR: RJN	DES: ASF	CK: TJC	SHEET NO:	TOTAL SHEETS
DATE: 05/24	DATE: 05/24	DATE: 05/24		
SCALE: 1" = 40'		QS. #:	10	12

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	310	368

36634 TODD J. CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
DATE SIGNED
ARIZONA U.S.A.

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: RJN	DES: ASF	CK: TJC	DATE: 05/2024



NOTES:

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DATE SAVED: 1/30/24
C:\USERS\ERCASTELUM\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WC1_PROJECTS\D053C584-45T85100437SM11.DWG

PER PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE FURNISHED FOR INSPECTION OR COPYING, EXCEPT AS SPECIFICALLY STATED IN THE CITY CODE, OR AS REQUIRED BY LAW

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or visit Arizona811.com

APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE: _____

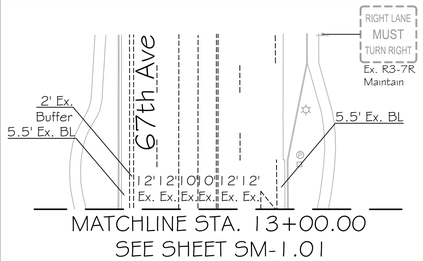
STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE: _____

PAINT & SIGN PLANS

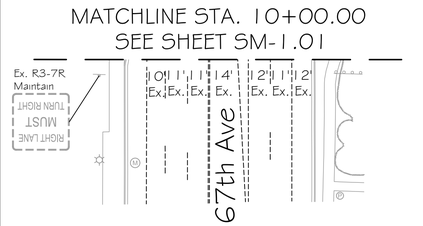
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

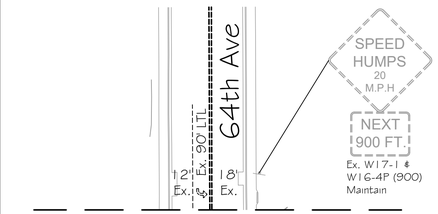
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

PROJECT #: ST85100437			FILE NO: SM-1.11
DR: RJN	DES: ASF	CK: TJC	SHEET NO: 11
DATE: 05/24	DATE: 05/24	DATE: 05/24	TOTAL SHEETS 12
SCALE: 1" = 40'		QS. #:	

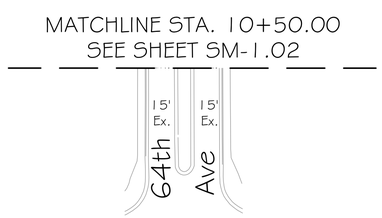


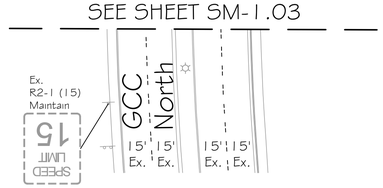
MATCHLINE STA. 13+00.00
SEE SHEET SM-1.01

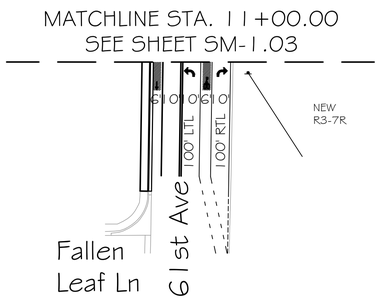


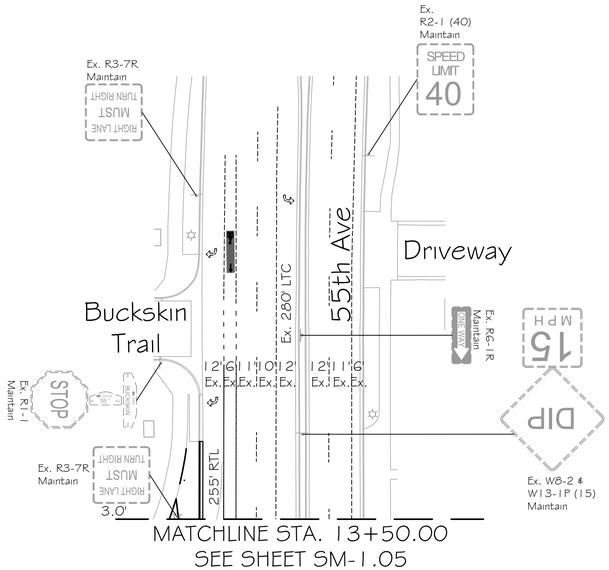


MATCHLINE STA. 13+00.00
SEE SHEET SM-1.02

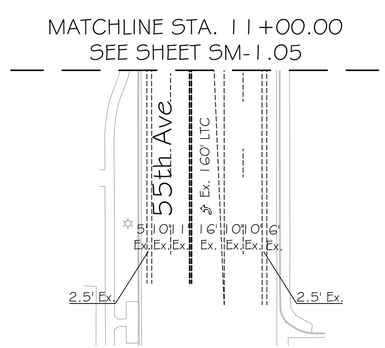


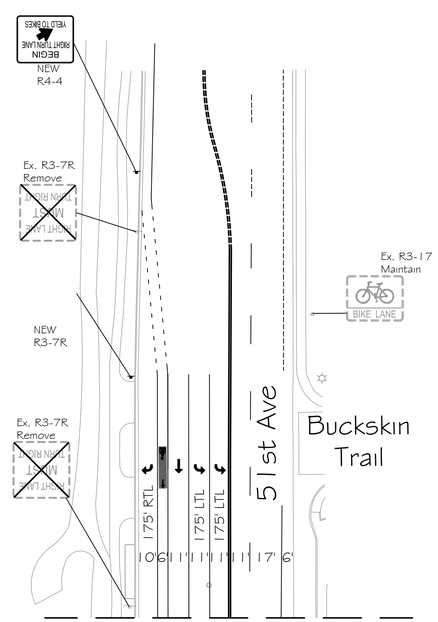




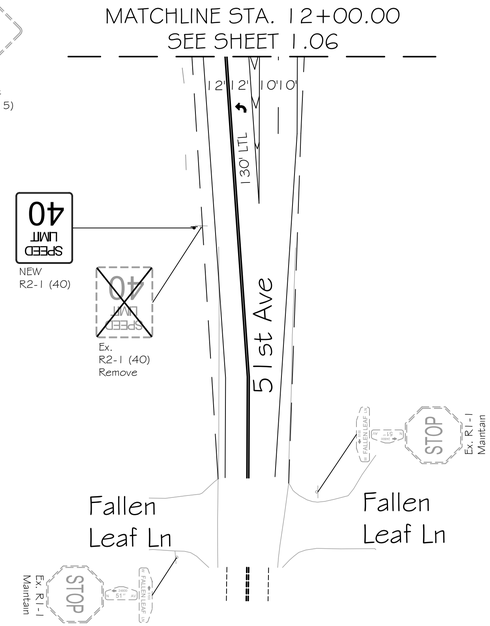


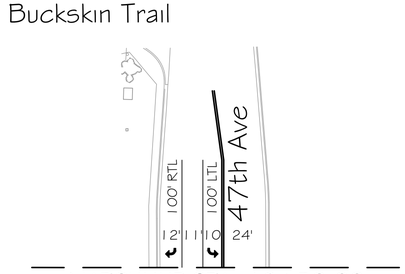
MATCHLINE STA. 13+50.00
SEE SHEET SM-1.05



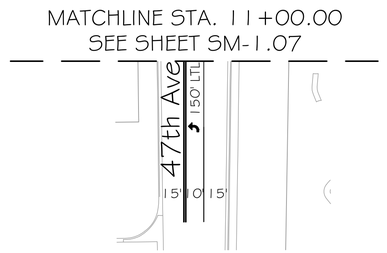


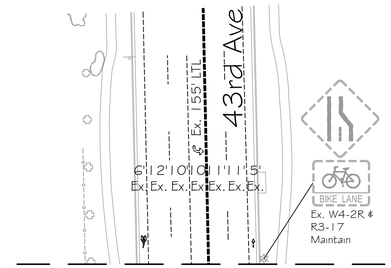
MATCHLINE STA. 15+00.00
SEE SHEET SM-1.06



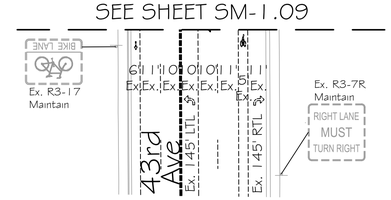


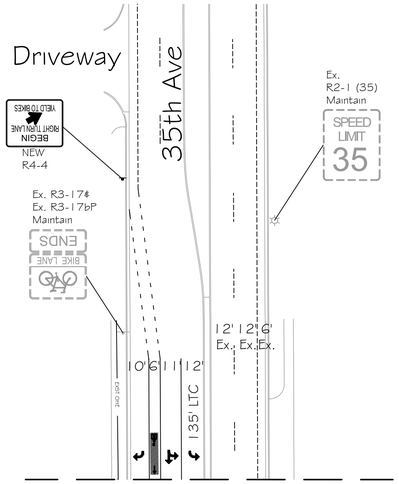
MATCHLINE STA. 13+50.00
SEE SHEET SM-1.07



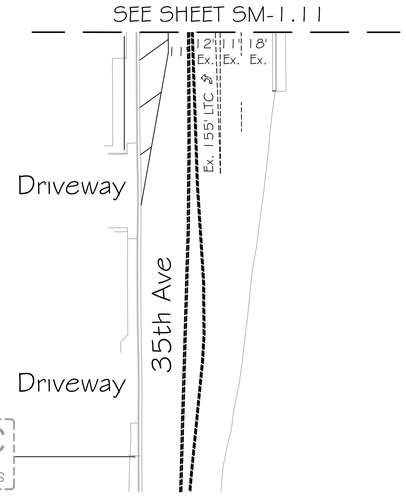


MATCHLINE STA. 12+50.00
SEE SHEET SM-1.09





MATCHLINE STA. 13+00.00
SEE SHEET SM-1.11



NOTES:

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DATE SAVED: 1/31/24
C:\USERS\ERCASTELUM\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WC_PROJECTS\D053C558-1\ST85100437SM12.DWG



APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE: _____

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE: _____

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ARIZONA811
Call 811 or click Arizona811.com

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	311	368

36634
TODD J.
CENCIMINO
REGISTERED PROFESSIONAL ENGINEER
ARIZONA U.S.A.

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: RJN | DES: ASF | CK: TJC | DATE: 05/2024

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PAINT & SIGN PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

PROJECT #: ST85100437			FILE NO: SM-1.12	
DR: RJN	DES: ASF	CK: TJC	SHEET NO:	TOTAL SHEETS
DATE: 05/24	DATE: 05/24	DATE: 05/24		
SCALE: 1" = 40'		QS. #:	12	12

PAINT & SIGN: HAPPY VALLEY ROAD - 67TH AVENUE TO 35TH AVENUE

PROJECT #: ST85100437

FILE #: 11589

TRAFFIC SIGNAL SUMMARY

ITEM No.	DESCRIPTION	UNIT	SHEET																		SHEET QUANTITY	
			64th Avenue			61st Avenue			GCC Driveway			55th Avenue			51st Avenue			47th Avenue				
			Found	Equip	Wiring	Found	Equip	Wiring	Found	Equip	Wiring	Found	Equip	Wiring	Found	Equip	Wiring	Found	Equip	Wiring		UNIT
M47110000	1" Schedule 40 PVC Conduit	Lin. Ft.	14			8			10						10			15			57	Lin. Ft.
M47110001	2" Schedule 40 PVC Conduit	Lin. Ft.	147			48			128			5			164			49			541	Lin. Ft.
M47110003	2 1/2" Schedule 40 PVC Conduit	Lin. Ft.	1087			928			1040			94			1253			1000			5402	Lin. Ft.
M47110005	4" Schedule 40 PVC Conduit	Lin. Ft.										87									87	Lin. Ft.
M47112003	No. 7 Junction Box	Each	4			4			4			2			4			4			22	Each
M4722001	Foundation for Type BP Pole	Each	1																		1	Each
M4722004	Foundation for Type AP Pole	Each	2			2												2			6	Each
M4722009	Foundation for Type GP Pole	Each							1												1	Each
M4722010	Foundation for Type LP Pole	Each	2			1			2			1			4			2			12	Each
M4722013	Foundation for Type P45/DP45 Pole	Each	2			2			1									2			7	Each
M4722016	Foundation for Type P70/DP70 Pole	Each	2			1			2			1			4			2			12	Each
M4724002	Foundation for Power Pedestal, Type B	Each	1			1			1						1			1			5	Each
M4724004	Foundation for Traffic Signal Controller Cabinet	Each	1			1			1			1			1			1			6	Each
M4751002	Electrical Power Service Pedestal, Type B (with Battery Backup)	Each		1			1			1			1			1			1		6	Each
M4751002	Traffic Signal Controller Cabinet	Each		1			1			1			1			1			1		6	Each
M4741036	Type BP Pole, 4'	Each		1																	1	Each
M4741034	Type AP Pole, 15'	Each		2			2												2		6	Each
M4741038	Type GP Pole	Each								1											1	Each
M4741038	Type LP Pole	Each		2			1			2			1			4			2		12	Each
M4741039	Type P45 Pole	Each		2			2			1									2		7	Each
M4741041	Type P70 Pole	Each		2			1			2			1			4			2		12	Each
M4741053	Damper	Each		2			3			2			1			4			4		15	Each
M4741008N	P45 25' Signal Mast Arm	Each		2																	2	Each
M4741012	P45 35' Signal Mast Arm	Each																	1		1	Each
M4741013	P45 40' Signal Mast arm	Each																	1		1	Each
M4741014	P45 45' Signal Mast Arm	Each					1			1						1					3	Each
M4741015N	P70 50' Signal Mast Arm	Each																			0	Each
M4741016N	P70 55' Signal Mast Arm	Each														1			1		2	Each
M4741917N	P70 60' Signal Mast Arm	Each					2			2						1			1		6	Each
M4741018	P70 65' Signal Mast Arm	Each											1									Each
M4741919N	P70 70' Signal Mast Arm	Each		2												1					3	Each
M4761001	Type F- 3 Section 12" Signal Head	Each		6			3			3			3			4			4		23	Each
M4761002	Type F1- 3 Section 12" Signal Head	Each		10			7			7			3			10			10		47	Each
M4761100FA	Type FA- 4 Section 12" Signal Head	Each		2			1			1						2			4		10	Each
M4761100FA1	Type FA1- 4 Section 12" Signal Head	Each		2			1			1			1			2			4		11	Each
M4761100X	Type R - 3 Section 12" Signal Head	Each								1						2					3	Each
M4761100X	Type R1- 3 Section 12" Signal Head	Each					3			2						3					8	Each
M4761100FA	Type FA- 4 Section 12" Signal Head - U Turn	Each					1			1											2	Each
M4761100FA1	Type FA1- 4 Section 12" Signal Head - U Turn	Each					1			1											2	Each
M4741024	5' Riser, Single Luminaire Mast Arm Shoe	Each		5			3			4			2			7			2		23	Each
M4741OXX	5' Riser, Dual Luminaire Mast Arm Shoe, 90 degree	Each																			0	Each
M4741030	20' Riser, Single Luminaire Mast Arm Shoe	Each		1			1			1						1			2		6	Each
M4771001	LED Traffic Signal Luminaire	Each		6			4			6			2			8			6		32	Each
M4741014	COP Luminaire Mast Arm	Each		6			4			5			2			8			6		31	Each
M4732002	APS Pedestrian Push Button	Each		8			4			6			2			8			8		36	Each
M4762009	Countdown Pedestrian Signal Head	Each		8			4			6			2			8			8		36	Each
M9001001	Illuminated Street Sign	Each		4			3			3			1			4			4		19	Each

63352
ANDREW P. MORENO
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO.
SIGNATURE DATE 06/19/24

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	312	368

AZTEC TYPSA

DR: HSY | DES: HSY | CK: TEE | DATE: 05/2024

TRAFFIC SIGNAL QUANTITIES: HAPPY VALLEY - 64th AVE TO 35th AVE

PROJECT #: ST85100437

FILE #:

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

TRAFFIC SIGNAL SUMMARY

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY RD - 64th AVE TO 35th AVE
ST85100437

PROJECT #:			FILE NO:	
DR: HSY	DES: HSY	CK: TEE	SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		
SCALE:		QS. #:	TSQ-1.01	TSQ-1.04

TRAFFIC SIGNAL SUMMARY

ITEM No.	DESCRIPTION	UNIT	SHEET																		SHEET QUANTITY	
			64th Avenue			61st Avenue			GCC Driveway			55th Avenue			51st Avenue			47th Avenue				
			Found	Equip	Wiring	Found	Equip	Wiring	Found	Equip	Wiring	Found	Equip	Wiring	Found	Equip	Wiring	Found	Equip	Wiring		UNIT
M9011001	Wireless Network Radio	Each		1			1			1			1			1			1		6	Each
M9021000	Video Detection Camera System (Per intersection)	Each		1			1			1			1			1			1		6	Each
M9021001	PTZ CCTV Camera	Each		1			1			1						1			1		5	Each
	6' x 6' Traffic Detector Loop	Each																				Each
	Bike Counting Loops	Each																				Each
M4786001	All Conductors, Cables & Splicing for Intersection	Each			1			1			1			1			1			1	6	Each
M4781001	Single Conductor Wire, #10 AWG White	Lin. Ft.																				Lin. Ft.
M4781005	Single Conductor Wire, #10 Bare Copper	Lin. Ft.																				Lin. Ft.
M4781006	Single Conductor Wire, #8 (Power)	Lin. Ft.																				Lin. Ft.
M4781002	Single Conductor Wire, #10 AWG Black	Lin. Ft.																				Lin. Ft.
M4781004	Single Conductor Wire, #10 AWG Green	Lin. Ft.																				Lin. Ft.
M478200X	3C IMSA Cable	Lin. Ft.																				Lin. Ft.
M478200X	5C IMSA Cable	Lin. Ft.																				Lin. Ft.
M478200X	7C IMSA Cable	Lin. Ft.																				Lin. Ft.
M478200X	25C IMSA Cable	Lin. Ft.																				Lin. Ft.
M478400X	42C IMSA Cable	Lin. Ft.																				Lin. Ft.
M478400X	CCTV Cable	Lin. Ft.																				Lin. Ft.
M478400X	ITS CAT5e Cable	Lin. Ft.																				Lin. Ft.
M478400X	Video Detection Cable	Lin. Ft.																				Lin. Ft.
	By Others																					
M4733001	Dual EVP Detector and Confirmation Light	Each		2			1			2			1			2			2		10	Each
M4784004	EVP Detector and Confirmation Cable	Lin. Ft.			190		1	300			190			85			218			272	1256	Lin. Ft.
M4793001	Removal of Traffic Signal Pole Foundations	Each	10						8			2			10						30	Each
M4791001	Removal of Pole Type "A"	Each	5						1			1			4						11	Each
M4791008	Removal of Pole Type "M" with Mast Arm	Each	2						2												4	Each

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 63352 ANDREW P. MORENO 08/19/24

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	313	368

AZTEC TYPSA

DR: HSY | DES: HSY | CK: TEE | DATE: 05/2024

TRAFFIC SIGNAL QUANTITIES: HAPPY VALLEY - 64th AVE TO 35th AVE

PROJECT #: ST85100437

FILE #:

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

TRAFFIC SIGNAL SUMMARY

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY RD - 64th AVE TO 35th AVE
ST85100437

PROJECT #:			FILE NO:	
DR: HSY	DES: HSY	CK: TEE	SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		
SCALE:		QS. #:	TSQ-1.02	TSQ-1.04

TRAFFIC SIGNAL SUMMARY

ITEM No.	DESCRIPTION	UNIT	43rd Avenue			41st Avenue			39th Avenue			SHEET 35th Avenue						SHEET QUANTITY		TOTAL QUANTITY	
			Found	Equip	Wiring	Found	Equip	Wiring	Found	Equip	Wiring	Found	Equip	Wiring	Found	Equip	Wiring		UNIT		UNIT
M4711000	1" Schedule 40 PVC Conduit	Lin. Ft.	10									10						20	Lin. Ft.	77	Lin. Ft.
M4711001	2" Schedule 40 PVC Conduit	Lin. Ft.	160									183						343	Lin. Ft.	884	Lin. Ft.
M4711003	2 1/2" Schedule 40 PVC Conduit	Lin. Ft.	1105						571			1189						2865	Lin. Ft.	8267	Lin. Ft.
M4711005	4" Schedule 40 PVC Conduit	Lin. Ft.																0	Lin. Ft.	87	Lin. Ft.
M4712003	No. 7 Junction Box	Each	4			1						4						9	Each	31	Each
M4722001	Foundation for Type BP Pole	Each																0	Each	1	Each
M4722004	Foundation for Type AP Pole	Each										1						1	Each	7	Each
M4722009	Foundation for Type GP Pole	Each										1						1	Each	2	Each
M4722010	Foundation for Type LP Pole	Each	4									3						7	Each	19	Each
M4722013	Foundation for Type P45/DP45 Pole	Each	1									1						2	Each	9	Each
M4722016	Foundation for Type P70/DP70 Pole	Each	3									3						6	Each	18	Each
M4724002	Foundation for Power Pedestal, Type B	Each	1									1						2	Each	7	Each
M4724004	Foundation for Traffic Signal Controller Cabinet	Each	1									1						2	Each	8	Each
M4751002	Electrical Power Service Pedestal, Type B (with Battery Backup)	Each		1									1					2	Each	8	Each
M4751002	Traffic Signal Controller Cabinet	Each		1									1					2	Each	8	Each
M4741036	Type BP Pole, 4'	Each																0	Each	1	Each
M4741034	Type AP Pole, 15'	Each											1					1	Each	7	Each
M4741038	Type GP Pole	Each											1					1	Each	2	Each
M4741038	Type LP Pole	Each		4									3					7	Each	19	Each
M4741039	Type P45 Pole	Each		1									1					2	Each	9	Each
M4741041	Type P70 Pole	Each		3									3					6	Each	18	Each
M4741053	Damper	Each		4									4					7	Each	22	Each
M4741008N	P45 25' Signal Mast Arm	Each																0	Each	2	Each
M4741012	P45 35' Signal Mast Arm	Each											1					1	Each	2	Each
M4741013	P45 40' Signal Mast arm	Each		1														1	Each	2	Each
M4741014	P45 45' Signal Mast Arm	Each		1														1	Each	4	Each
M4741015N	P70 50' Signal Mast Arm	Each		1									1					2	Each	2	Each
M4741016N	P70 55' Signal Mast Arm	Each		1									1					2	Each	4	Each
M4741917N	P70 60' Signal Mast Arm	Each											1					1	Each	7	Each
M4741018	P70 65' Signal Mast Arm	Each																	Each	0	Each
M4741919N	P70 70' Signal Mast Arm	Each																0	Each	3	Each
M4761001	Type F- 3 Section 12" Signal Head	Each		4									4					8	Each	31	Each
M4761002	Type F1- 3 Section 12" Signal Head	Each		10									10					20	Each	67	Each
M4761100FA	Type FA- 4 Section 12" Signal Head	Each		4									2					6	Each	16	Each
M4761100FA1	Type FA1- 4 Section 12" Signal Head	Each		4									2					6	Each	17	Each
M4761100X	Type R - 3 Section 12" Signal Head	Each											2					2	Each	5	Each
M4761100X	Type R1- 3 Section 12" Signal Head	Each											2					2	Each	10	Each
M4761100FA	Type FA- 4 Section 12" Signal Head - U Turn	Each																0	Each	2	Each
M4761100FA1	Type FA1- 4 Section 12" Signal Head - U Turn	Each																0	Each	2	Each
M4741024	5' Riser, Single Luminaire Mast Arm Shoe	Each		7									4					11	Each	34	Each
M4741OXX	5' Riser, Dual Luminaire Mast Arm Shoe, 90 degree	Each											1					1	Each	1	Each
M4741030	20' Riser, Single Luminaire Mast Arm Shoe	Each		1									1					2	Each	8	Each
M4771001	LED Traffic Signal Luminaire	Each		8									8					16	Each	48	Each
M4741014	COP Luminaire Mast Arm	Each		8									7					15	Each	46	Each
M4732002	APS Pedestrian Push Button	Each		8									6					14	Each	50	Each
M4762009	Countdown Pedestrian Signal Head	Each		8									6					14	Each	50	Each
M9001001	Illuminated Street Sign	Each		4									4					8	Each	27	Each

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 63352 ANDREW P. MORENO Date Signed 06/18/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	314	368

AZTEC TYPSA

DR: HSY | DES: HSY | CK: TEE | DATE: 05/2024

TRAFFIC SIGNAL QUANTITIES: HAPPY VALLEY - 64th AVE TO 35th AVE

PROJECT #: ST85100437

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

TRAFFIC SIGNAL SUMMARY

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY RD - 64th AVE TO 35th AVE
ST85100437

FILE #:

PROJECT #:			FILE NO:	
DR: HSY	DES: HSY	CK: TEE	SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		
SCALE:		QS. #:	TSQ-1.03	TSQ-1.04

TRAFFIC SIGNAL SUMMARY

ITEM No.	DESCRIPTION	UNIT	43rd Avenue			41st Avenue			39th Avenue			SHEET 35th Avenue						SHEET QUANTITY		TOTAL QUANTITY	
			Found	Equip	Wiring	Found	Equip	Wiring	Found	Equip	Wiring	Found	Equip	Wiring	Found	Equip	Wiring		UNIT		UNIT
M901 1001	Wireless Network Radio	Each		1									1					2	Each	8	Each
M902 1000	Video Detection Camera System (Per intersection)	Each		1									1					2	Each	8	Each
M902 1001	PTZ CCTV Camera	Each		1									1					2	Each	7	Each
	6' x 6' Traffic Detector Loop	Each					12											12	Each	12	Each
	Bike Counting Loops	Each					2											2	Each	2	Each
M478600 1	All Conductors, Cables & Splicing for Intersection	Each			1						1			1				10	Each	15	Each
M478 1001	Single Conductor Wire, #10 AWG White	Lin. Ft.									288							288	Lin. Ft.	288	Lin. Ft.
M478 1005	Single Conductor Wire, #10 Bare Copper	Lin. Ft.						408			576							984	Lin. Ft.	984	Lin. Ft.
M478 1006	Single Conductor Wire, #8 (Power)	Lin. Ft.																0	Lin. Ft.	0	Lin. Ft.
M478 1002	Single Conductor Wire, #10 AWG Black	Lin. Ft.																0	Lin. Ft.	0	Lin. Ft.
M478 1004	Single Conductor Wire, #10 AWG Green	Lin. Ft.																0	Lin. Ft.	0	Lin. Ft.
M478200X	3C IMSA Cable	Lin. Ft.																0	Lin. Ft.	0	Lin. Ft.
M478200X	5C IMSA Cable	Lin. Ft.									288							288	Lin. Ft.	288	Lin. Ft.
M478200X	7C IMSA Cable	Lin. Ft.																0	Lin. Ft.	0	Lin. Ft.
M478200X	25C IMSA Cable	Lin. Ft.																0	Lin. Ft.	0	Lin. Ft.
M478400X	42C IMSA Cable	Lin. Ft.									288							288	Lin. Ft.	288	Lin. Ft.
M478400X	CCTV Cable	Lin. Ft.																0	Lin. Ft.	0	Lin. Ft.
M478400X	ITS CAT5e Cable	Lin. Ft.																0	Lin. Ft.	0	Lin. Ft.
M478400X	Video Detection Cable	Lin. Ft.									288							288	Lin. Ft.	288	Lin. Ft.
	By Others																				
M473300 1	Dual EVP Detector and Confirmation Light	Each		2									2					16	Each	24	Each
M4784004	EVP Detector and Confirmation Cable	Lin. Ft.			178									204				1910	Lin. Ft.	2894	Lin. Ft.
M479300 1	Removal of Traffic Signal Pole Foundations	Each	10									11						51	Each	81	Each
M479 1001	Removal of Pole Type "A"	Each	6									1						18	Each	29	Each
M479 1008	Removal of Pole Type "M" with Mast Arm	Each	2									4						10	Each	14	Each



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	315	368

AZTEC TYPSA

DR: HSY | DES: HSY | CK: TEE | DATE: 05/2024

TRAFFIC SIGNAL QUANTITIES: HAPPY VALLEY - 64th AVE TO 35th AVE

PROJECT #: ST85100437

FILE #:

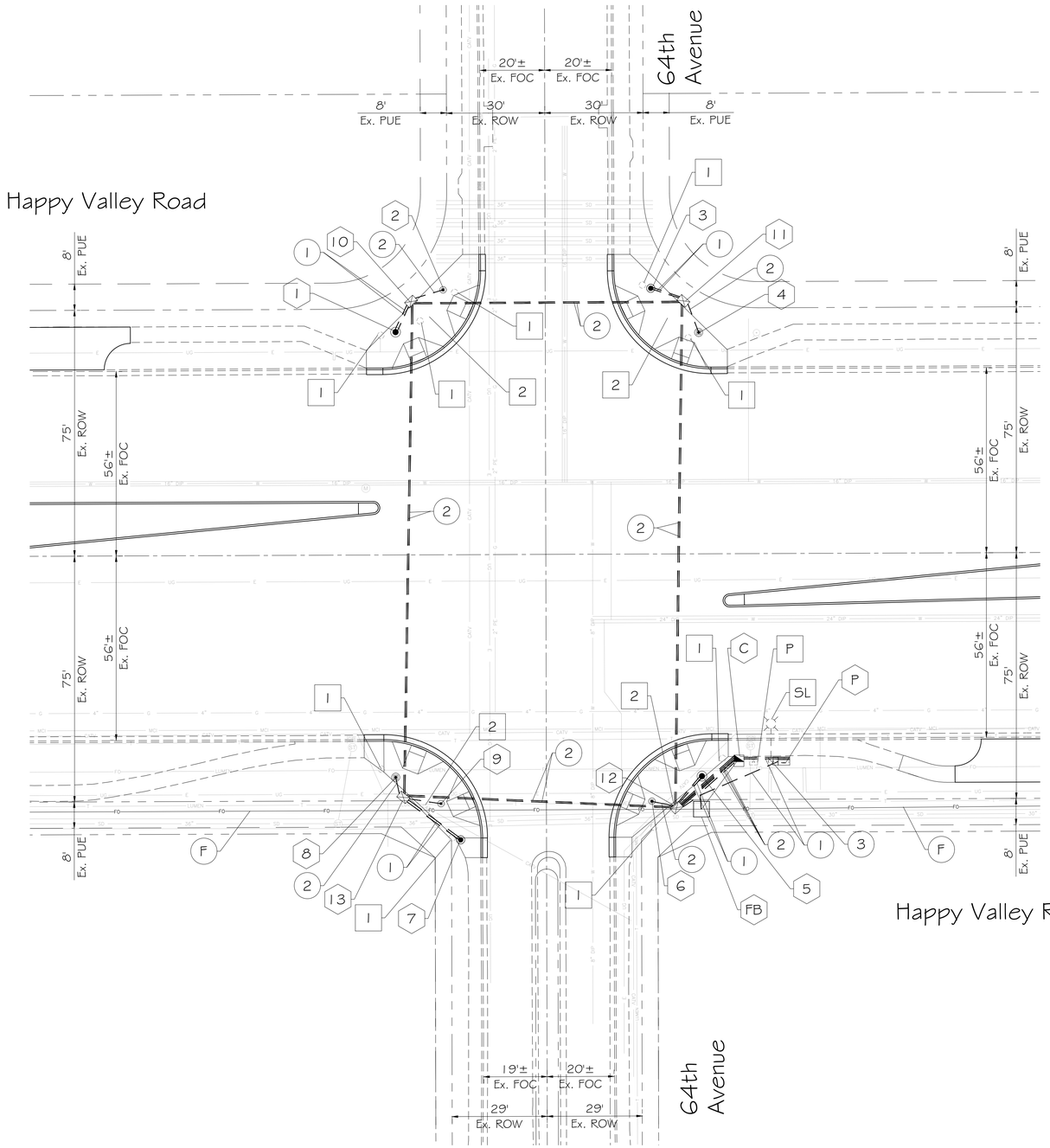
PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

TRAFFIC SIGNAL SUMMARY

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY RD - 64th AVE TO 35th AVE
ST85100437

PROJECT #:			FILE NO:	
DR: HSY	DES: HSY	CK: TEE	SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		
SCALE:		QS. #:	TSQ-1.04	TSQ-1.04



1. GENERAL NOTES:

1.1 The contractor shall notify the City of Phoenix Traffic Signal Shop (602-262-6733) a minimum of fourteen (14) calendar days prior to beginning any traffic signal work. Submittals of all equipment shall be furnished to the Signal Shop and approved prior to ordering any traffic signal equipment. The contractor shall verify they have the current approved plan set prior to starting and ordering any equipment.

1.2 The contractor shall layout all ADA ramps, junction boxes and foundation locations for approval by a traffic signal representative. Contractor must have a current visible Bluestake showing all utilities. All ADA ramps shall be laid out in white marking paint to determine best traffic signal pole locations.

1.3 Traffic Signal Plan approval is valid for 365 calendar days from date sealed. If signal construction has not begun prior to the 365 days elapsing, the signal plans must be re-submitted for approval or an extension granted by the Deputy Director of Traffic Services or an authorized representative to ensure that existing traffic signal equipment locations and standard detail references are current.

1.4 All traffic signal equipment and materials shall follow the current City of Phoenix Traffic Signal Standard Details and Specifications (www.phoenix.gov/streets/reference-material). The contractor shall have a copy of these standards along with a complete set of approved plans on site at all times during signal and lighting systems construction. The contractor shall have a competent supervisor capable of reading and understanding plans and specifications and thoroughly experienced in the construction of traffic signals. The contractor's supervisor or lead shall possess a current International Municipal Signal Association (IMSA) Level II Traffic Signal Electrician Certification and must be on site during any traffic signal construction activities. It will be the responsibility of the contractor to supply verification of certification. If a jobsite is inspected and a certified Electrician is not on site, a stop work order will be issued.

1.5 The contractor is responsible for the construction of the project; its planning, safety, quality and completion. The City of Phoenix inspection team would make the determination if the work performed meets the criteria and if not, may request that the work be redone at the contractor's expense.

1.6 Foundation elevations must be within 1/4" of finished sidewalk grade.

1.7 A minimum of a four (4) foot clear path is required around all traffic signal poles. A four by four (4x4) flat landing centered on the pedestrian push button must be maintained as provided on the Traffic Signal Standard Details (see note 1.4).

1.8 Contractor shall verify location and orientation of all pole and mast arm mounted equipment on all new traffic signal poles and mast arms with the Traffic Signal shop's representative prior to drilling any holes in the poles or mast arms. Failure to get approval may result in replacement of the pole at the contractor's expense.

2. WORK TO BE PERFORMED BY THE CONTRACTOR

The contractor shall supply all materials and perform all work except as indicated in note 3.

3. WORK TO BE PERFORMED BY CITY OF PHOENIX SIGNAL CREWS

Traffic Signal representative shall approve marked layout of ADA ramps, junction boxes and foundation locations prior to excavation, prep contractor furnished controller cabinets and internal equipment (contractor to pick up and install controller cabinet), inspect and approve all traffic signal equipment installed by contractor and terminate, test and activate all field wiring into controller cabinet(s).

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 49930 TRACY ELIZABETH EBERLEIN Date Signed 10/31/24 ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	316	368

AZTEC TYPSA

DR: HSY | DES: HSY | CK: TEE | DATE: 05/2024

PROPOSED FOUNDATION SCHEDULE

NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM 64th AVENUE MON LINE
C	CONT	62 ft. SOUTH	59 ft. EAST
P	PSP	63 ft. SOUTH	73 ft. EAST
1	P70	68 ft. NORTH	46 ft. WEST
2	AP	81 ft. NORTH	31 ft. WEST
3	P45	81 ft. NORTH	32 ft. EAST
4	LP	68 ft. NORTH	47 ft. EAST
5	P70	68 ft. SOUTH	47 ft. EAST
6	AP	75 ft. SOUTH	32 ft. EAST
7	P45	87 ft. SOUTH	26 ft. WEST
8	LP	68 ft. SOUTH	46 ft. WEST
9	BP	76ft. SOUTH	32 ft. WEST

PROPOSED JUNCTION BOX SCHEDULE

NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM 64th AVENUE MON LINE
10	#7	77 ft. NORTH	41 ft. WEST
11	#7	77 ft. NORTH	42 ft. EAST
12	#7	77 ft. SOUTH	40 ft. EAST
13	#7	74 ft. SOUTH	44 ft. WEST

INSTALL

- (C) 8 Phase Controller Foundation - See Foundation Schedule
- (P) Type B Power Service Pedestal Foundation w/Battery Backup See Foundation Schedule
- (1) thru (9) See Foundation Schedule
- (10) thru (13) See Junction Box Schedule
- (FB) Fiber Optic Junction Box - See Roadway Plans
- (1) 2" Schedule 40 PVC
- (2) 2 1/2" Schedule 40 PVC
- (3) 1" Schedule 40 PVC
- (F) Fiber Optic Conduit - See Roadway Plans

REMOVE

- (1) Traffic Signal Foundation - 9
- (2) Traffic Junction Boxes - 4
- (P) Power Service Pedestal - 1
- (SL) Streetlight - 1

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Contact Arizona 811 at least two full working days before you begin excavation. ARIZONA811 Call 811 or click Arizona811.com

TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

HAPPY VALLEY ROAD AT 64th AVENUE
ST85100437
FOUNDATION

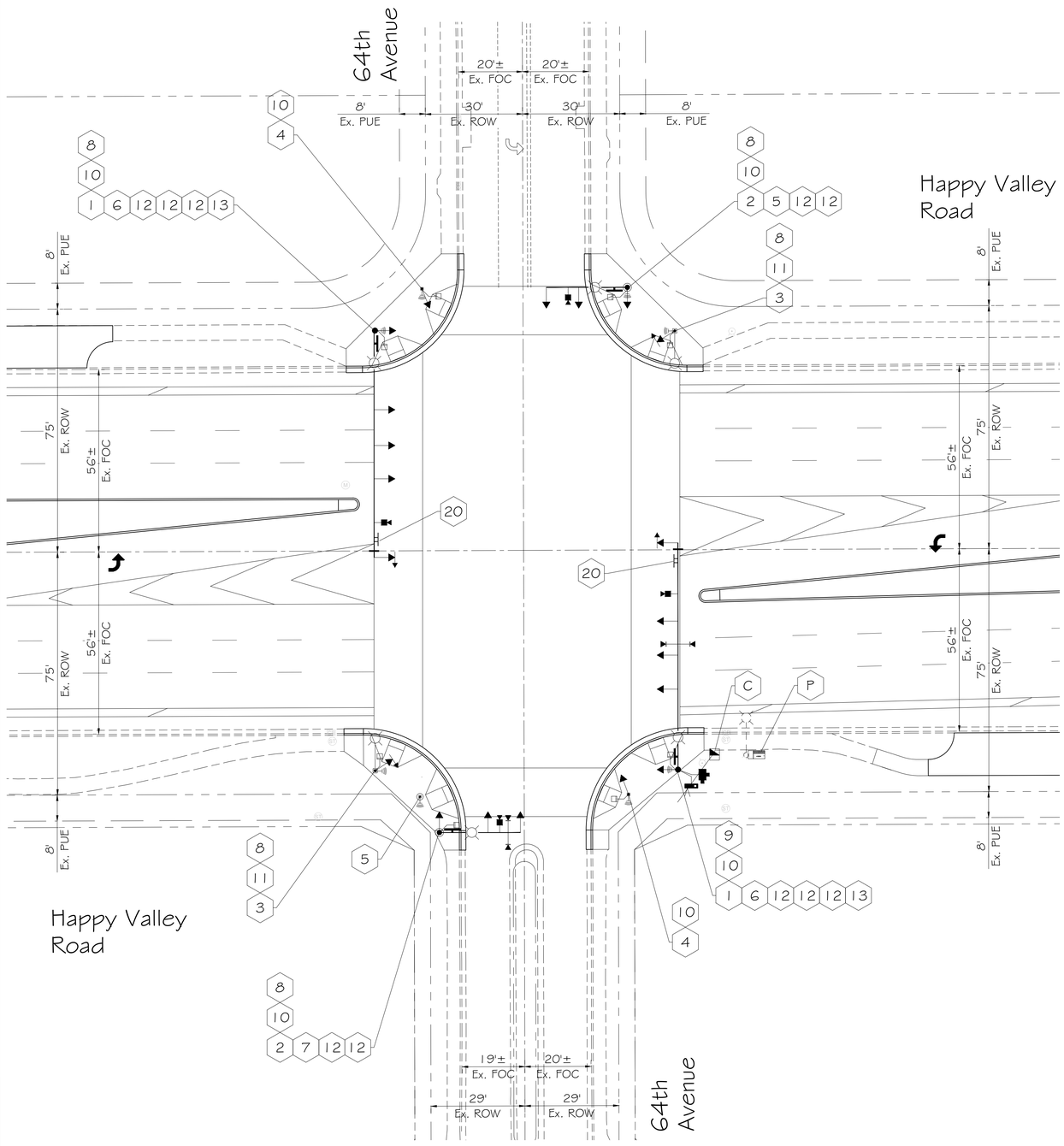
PROJECT #:			FILE NO: 11584
DR: HSY	DES: HSY	CK: TEE	SHEET NO: 1 / TOTAL SHEETS: 4
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	
SCALE: 1" = 20'		QS. #:	

TRAFFIC SIGNAL: HAPPY VALLEY AT 64th AVENUE

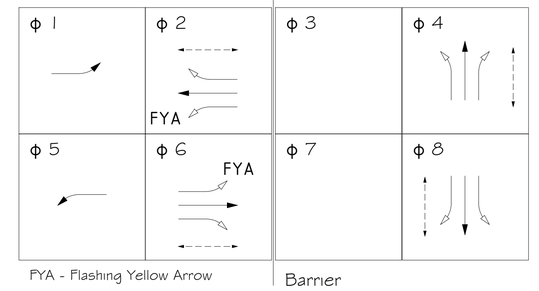
PROJECT #: ST85100437

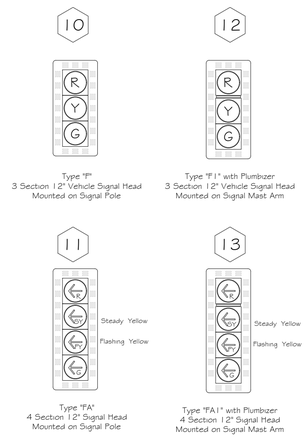
FILE #: 11584

DATE SAVED: 5/24/24 C:\USERS\HYOUNG\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0522673\ST85100437_64THAVE_11584.DWG



FOR ADDITIONAL SIGNS AND PAINT AND SIGNING INFORMATION
SEE STD DWG # 11589





- Video Detection - 4 New
- LED Luminaire - 6 New
- Illuminated Street Sign - 4 New
- Sign at Traffic Signal - 2 New
- Pedestrian Head - 8 New
- APS Pedestrian Push Buttons - 8 New
- Wireless Radio - 1 New
- CCTV Camera - 1 New
- Dual EVP Device - 2 New
- Mast Arm Damper - 2 New



R10-101
Mounted on
Signal Mast Arm

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	317	368

AZTEC TYPSA

DR: HSY	DES: HSY	CK: TEE	DATE: 05/2024

EQUIPMENT LIST

- C — 8 Phase Controller Cabinet for Signal - 1 New
- P — Type B Power Service Pedestal w/Battery Backup - 1 New
- 1 — Traffic Signal Pole Type P70 - 2 New
- 2 — Traffic Signal Pole Type P45 - 2 New
- 3 — Traffic Signal Pole Type LP - 2 New
- 4 — Traffic Signal Pole Type AP - 2 New
- 5 — Traffic Signal Pole Type BP - 1 New
- 6 — P70 70' Signal Mast Arm - 2 New
- 7 — P45 25' Signal Mast Arm - 2 New
- 8 — 5' Riser, Single Shoe - 5 New
- 9 — 20' Riser, Single Shoe - 1 New
- 10 — Type F 12" Signal Head - 6 New, Signal Pole Mount
- 11 — Type FA 12" Signal Head, Left Arrows - 2 New, Signal Pole Mount
- 12 — Type F1 12" Signal Head - 10 New, Mast Arm Mount w/Plumbizer
- 13 — Type FA1 12" Signal Head, Left Arrows - 2 New, Mast Arm Mount w/Plumbizer

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE: _____

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE: _____

TRAFFIC SIGNAL PLAN

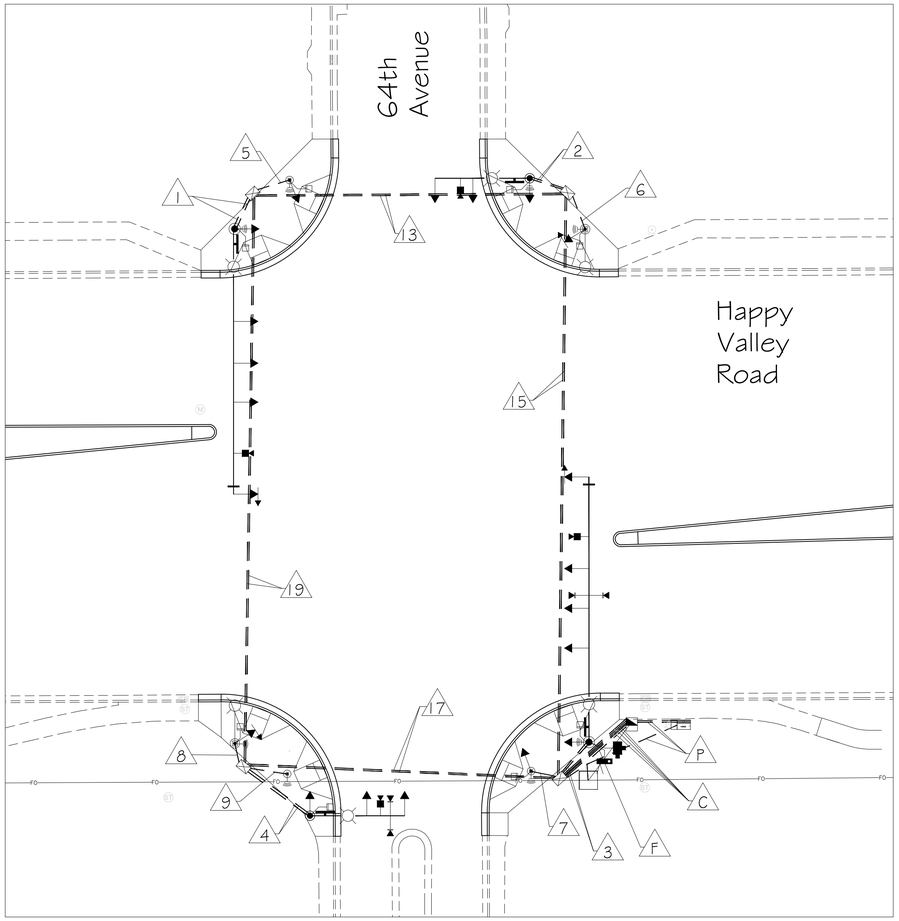
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 64th AVENUE
ST85100437
EQUIPMENT

PROJECT #:			FILE NO: 11584
DR: HSY	DES: HSY	CK: TEE	SHEET NO:
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	TOTAL SHEETS
SCALE: 1" = 20'		QS. #:	2 / 4

TRAFFIC SIGNAL: HAPPY VALLEY AT 64th AVENUE
PROJECT #: ST85100437
FILE #: 11584

DATE SAVED: 5/24/24 C:\USERS\HYOUNG\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0522673\ST85100437_64THAVE_11584.DWG



C — Controller to #7 Junction Box

CONDUIT 1	CONDUIT 2	CONDUIT 3	CONDUIT 4
#10 Bare Copper #10 AWG White 42C IMSA Cable	#10 Bare Copper Video Detection (4) EVP Detection Cable (4) EVP Confirmation Cable (4) CCTV Cable (1) ITS Cable (1)	#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green	Detectible Mule Tape

P1 — Power Service Pedestal to #7 Junction Box

CONDUIT 1
#10 Bare Copper 3C IMSA Cable (LUM) 3C IMSA Cable (SIGN) 3C IMSA Cable (RADIO) 5C IMSA Cable

P2 — Power Service Pedestal to Controller

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green	Detectible Mule Tape

1 — NWC Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1)	#10 Bare Copper Video Detection Cable (1)

2 — NEC Junction Box to P45 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1)	#10 Bare Copper Video Detection Cable (1)

3 — SEC Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1) 3C IMSA Cable (RADIO) (1)	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (2) EVP Confirmation Cable (2) CCTV Cable (1) ITS Cable (1)

4 — SWC Junction Box to P45 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1)	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (2) EVP Confirmation Cable (2)

5 — NWC Junction Box to AP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable

6 — NEC Junction Box to LP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable 3C IMSA Cable (LUM)(1)

7 — SEC Junction Box to AP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable

8 — SEC Junction Box to LP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable 3C IMSA Cable (LUM)(1)

9 — SEC Junction Box to BP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable

13 — NWC Junction Box to NEC Junction Box

CONDUIT 1	CONDUIT 2
Detectible Mule Tape	Detectible Mule Tape

15 — NEC Junction Box to SEC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Video Detection Cable (1)

17 — SEC Junction Box to SWC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (2) EVP Confirmation Cable (2)

19 — SWC Junction Box to NWC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Video Detection Cable (1)

F — Fiber Optic Junction Box to Controller

CONDUIT 1
Detectible Mule Tape

REGISTERED PROFESSIONAL ENGINEER — CERTIFICATE NO. 49930 — TRACY ELIZABETH EBERLEIN — Date Signed 5/24/24 — ARIZONA

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	318	368

AZTEC TYPSA

DR: HSY	DES: HSY	CK: TEE	DATE: 05/2024

TRAFFIC SIGNAL HAPPY VALLEY AT 64th AVENUE

PROJECT #: ST85100437

FILE #: 11584

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

APPROVED BY:

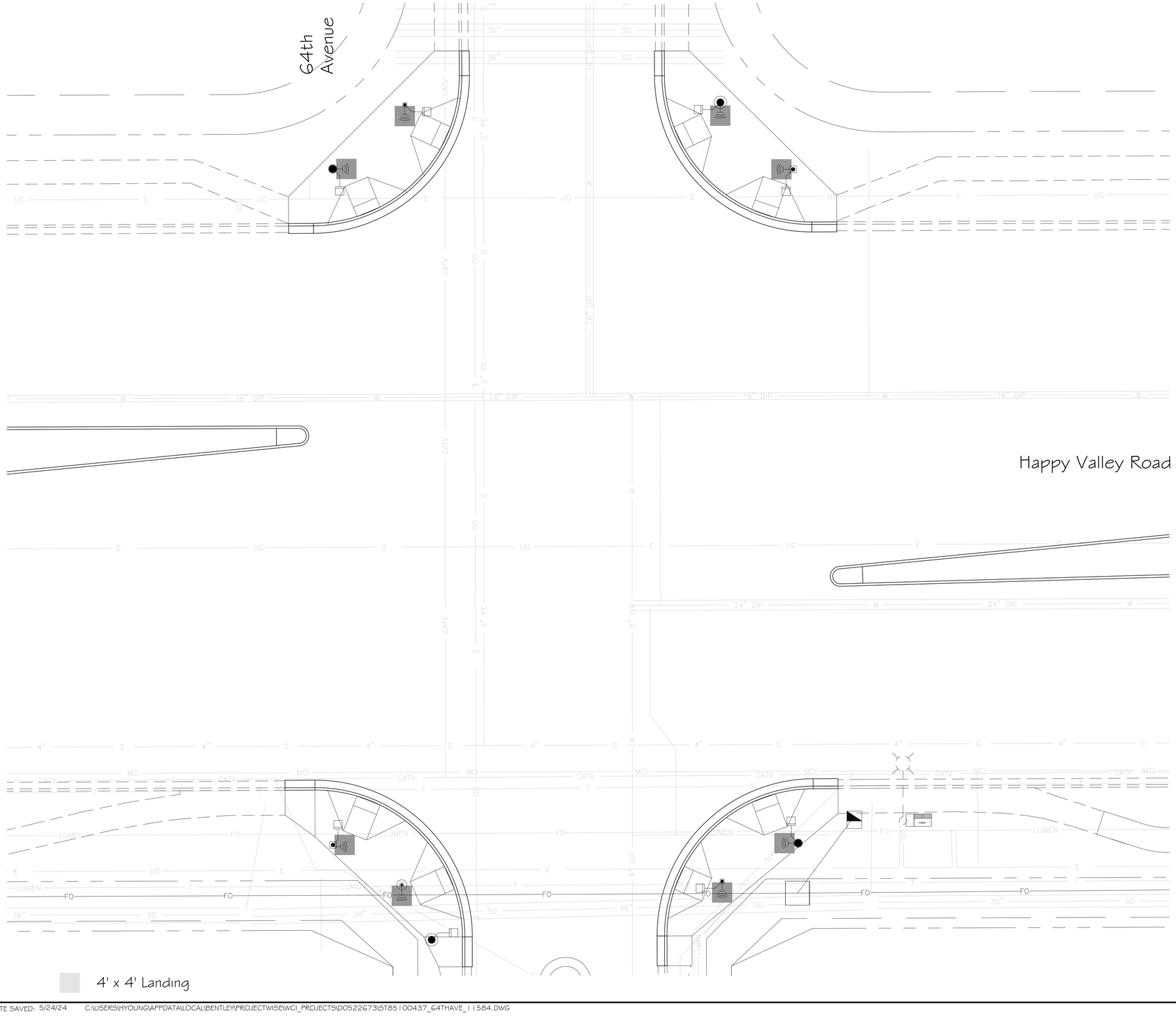
TRAFFIC SIGNAL ENGINEER _____ DATE: _____

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE: _____

HAPPY VALLEY ROAD AT 64th AVENUE
ST85100437
WIRING

PROJECT #:			FILE NO: 11584	
DR: HSY	DES: HSY	CK: TEE	SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	3	4
SCALE: 1" = 20'		QS. #:		

DATE SAVED: 5/24/24 C:\USERS\HYOUNG\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0522673\ST85100437_64THAVE_11584.DWG



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	319	368

AZTEC TYPSA

DR: HSY | DES: HSY | CK: TEE | DATE: 05/2024

RAMP DETAILS: HAPPY VALLEY AT 64th AVENUE

N

FOR INFORMATION ONLY
SEE ROADWAY SHEETS FOR RAMP DESIGN
SEE FOUNDATION SHEET FOR POLE LOCATIONS AND TYPE

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

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Call 811 or click Arizona811.com

RAMP DETAILS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

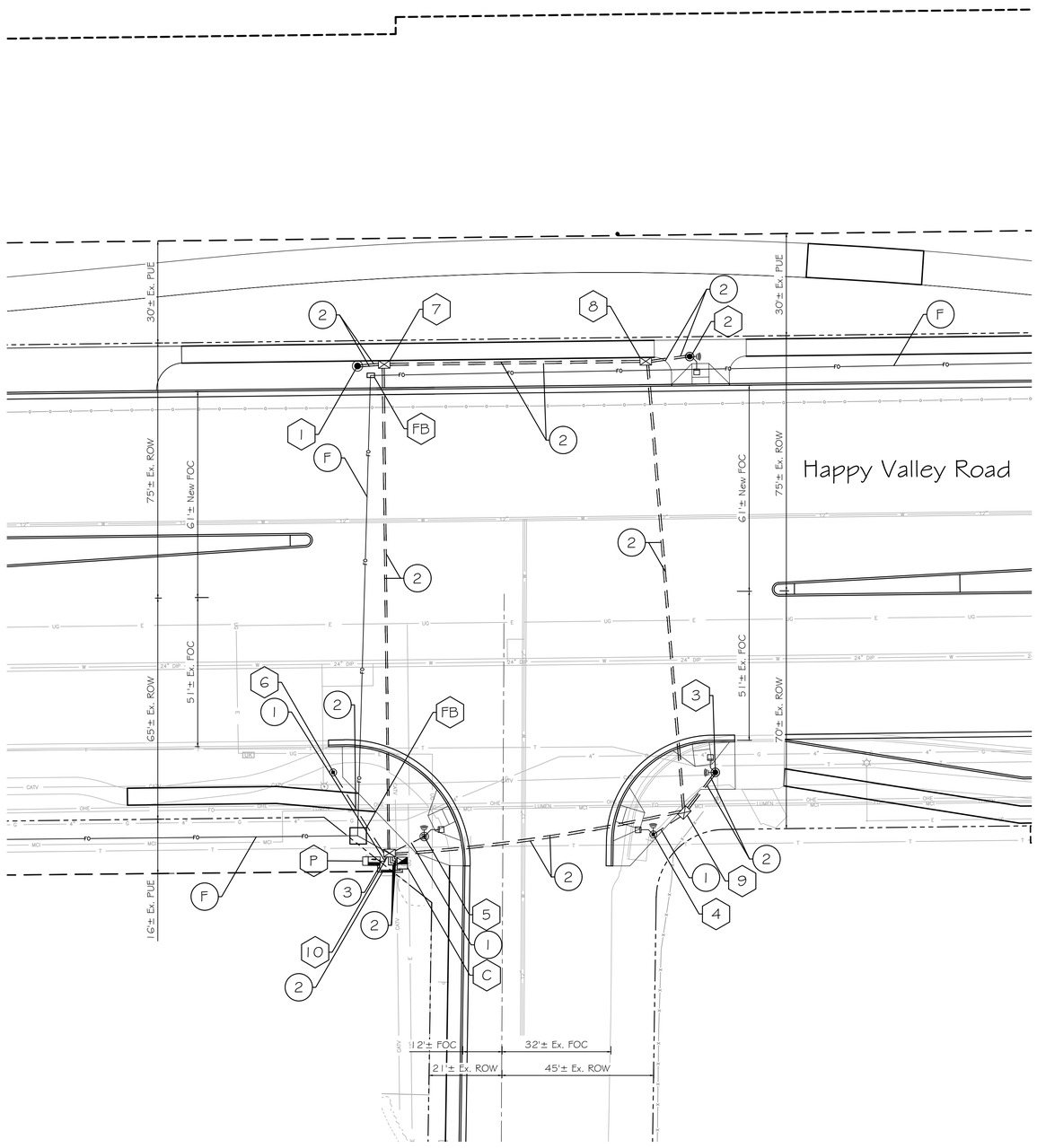
HAPPY VALLEY ROAD AT 64th AVENUE
ST85100437
RAMP DETAILS

PROJECT #:				FILE NO: 11584	
DR: HSY	DES: HSY	CK: TEE		SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024			
SCALE: 1" = 20'			QS. #:	4	4

PROJECT #: ST85100437

FILE #: 11584

DATE SAVED: 5/24/24 C:\USERS\HYOUNG\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0522673\ST85100437_64THAVE_11584.DWG



1. GENERAL NOTES: Contractor as referenced herein is the Developer Contractor.

1.1 The contractor shall notify the City of Phoenix Traffic Signal Shop (602-262-6733) a minimum of fourteen (14) calendar days prior to beginning any traffic signal work. Submittals of all equipment shall be furnished to the Signal Shop and approved prior to ordering any traffic signal equipment. The contractor shall verify they have the current approved plan set prior to starting and ordering any equipment.

1.2 The contractor shall layout all ADA ramps, junction boxes and foundation locations for approval by a traffic signal representative. Contractor must have a current visible Bluestake showing all utilities. All ADA ramps shall be laid out in white marking paint to determine best traffic signal pole locations.

1.3 Traffic Signal Plan approval is valid for 365 calendar days from date sealed. If signal construction has not begun prior to the 365 days elapsing, the signal plans must be re-submitted for approval or an extension granted by the Deputy Director of Traffic Services or an authorized representative to ensure that existing traffic signal equipment locations and standard detail references are current.

1.4 All traffic signal equipment and materials shall follow the current City of Phoenix Traffic Signal Standard Details and Specifications. (www.phoenix.gov/streets/reference-material) The contactor shall have a copy of these standards along with a complete set of approved plans on site at all times during signal and lighting systems construction. The contractor shall have a competent supervisor capable of reading and understanding plans and specifications and thoroughly experienced in the construction of traffic signals. The contractor's supervisor or lead shall possess a current International Municipal Signal Association (IMSA) Level II Traffic Signal Electrician Certification and must be on site during any traffic signal construction activities. It will be the responsibility of the contractor to supply verification of certification. If a jobsite is inspected and a certified Electrician is not on site, a stop work order will be issued.

1.5 The contractor is responsible for the construction of the project; its planning, safety, quality and completion. The City of Phoenix inspection team would make the determination if the work performed meets the criteria and if not, may request that the work be redone at the contractor's expense.

1.6 Foundation elevations must be within 1/4" of finished sidewalk grade.

1.7 A minimum of a four (4) foot clear path is required around all traffic signal poles. A four by four (4x4) flat landing centered on the pedestrian push button must be maintained as provided on the latest Traffic Signal Standard Details (see note 1.4).

1.8 Contractor shall verify location and orientation of all pole and mast arm mounted equipment on all new traffic signal poles and mast arms with the Traffic Signal shop's representative prior to drilling any holes in the poles or mast arms. Failure to get approval may result in replacement of the pole at the contractor's expense.

2. WORK TO BE PERFORMED BY THE CONTRACTOR

The contractor shall supply all materials and perform all work except as indicated in note 3.

3. WORK TO BE PERFORMED BY CITY OF PHOENIX SIGNAL CREWS

Traffic Signal representative shall approve marked layout of ADA ramps, junction boxes and foundation locations prior to excavation, prep contractor furnished controller cabinets and internal equipment (contractor to pick up and install controller cabinet), inspect and approve all traffic signal equipment installed by contractor and terminate, test and activate all field wiring into controller cabinet(s).

The City of Phoenix traffic signal crews will provide and install all above ground traffic signal equipment including:

- All controllers
- Power service pedestal mounting ring
- Type "B" power service pedestal w/ battery backup
- Poles, mast arms, risers and luminaire mast arms not identified in note 2.1
- All pole grouting
- All signal heads
- All pedestrian heads
- All accessible pedestrian signal (APS) push buttons
- All LED luminaires
- All illuminated street signs
- All signal wiring
- All loop and non-invasive detectors

Registered Professional Engineer (Civil) CERTIFICATE NO. 39284 TRENT W. THATCHER Date Signed 05/09/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	320	368

WILSON & COMPANY 410 North 44th Street Suite 460 Phoenix, Arizona 85008

DR: CMW	DES: CMW	CK: TWT	DATE: 05/24

PROPOSED FOUNDATION SCHEDULE

NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM 61st AVENUE MON LINE
C	CONT	78 ft. SOUTH	30 ft. WEST
P	PSP	78 ft. SOUTH	38 ft. WEST
1	P70	68 ft. NORTH	43 ft. WEST
2	P45	69 ft. NORTH	54 ft. EAST
3	P45	53 ft. SOUTH	62 ft. EAST
4	AP	71 ft. SOUTH	44 ft. EAST
5	LP	71 ft. SOUTH	23 ft. WEST
6	AP	52 ft. SOUTH	50 ft. WEST

PROPOSED JUNCTION BOX SCHEDULE

NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM 61st AVENUE MON LINE
7	#7	68 ft. NORTH	36 ft. WEST
8	#7	68 ft. NORTH	41 ft. EAST
9	#7	35 ft. SOUTH	53 ft. EAST
10	#7	75 ft. SOUTH	33 ft. WEST

INSTALL

- (C) 8 Phase Controller Foundation - See Foundation Schedule
- (P) Type B Power Service Pedestal Foundation w/Battery Backup See Foundation Schedule
- (1) thru (6) See Foundation Schedule
- (7) thru (10) See Junction Box Schedule
- (FB) Fiber Optic Junction Box - See Roadway Plans

- (1) 2" Schedule 40 PVC
- (2) 2 1/2" Schedule 40 PVC
- (3) 1" Schedule 40 PVC
- (F) Fiber Optic Conduit - See Roadway Plans

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APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE: _____

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE: _____

TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 61st AVENUE
ST85100437
FOUNDATION

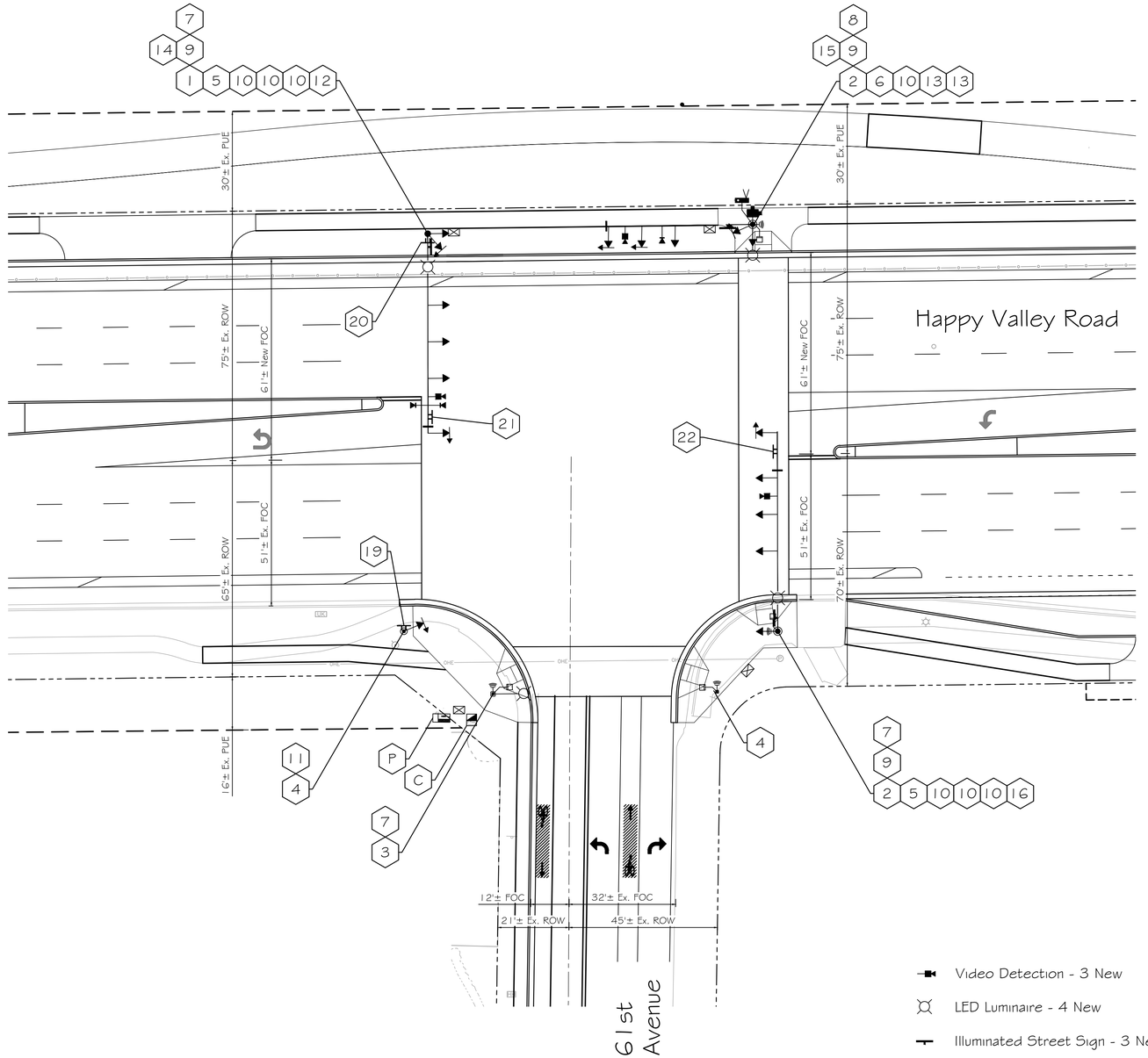
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DR: CMW	DES: CMW	CK: TWT		SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		1	4
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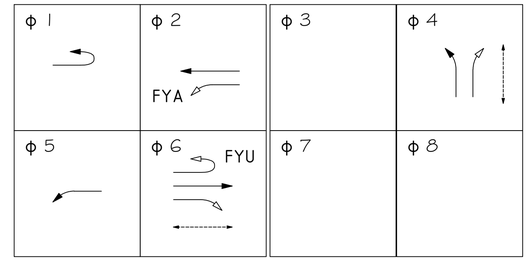
TRAFFIC SIGNAL HAPPY VALLEY AT 61st AVENUE

PROJECT #: ST85100437

FILE #: 11586

DATE SAVED: 5/9/24 C:\USERS\CMWASCOVICH\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0556964\ST85100437_61STAVE.DWG

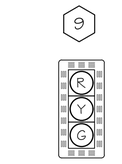




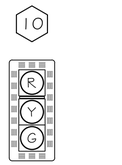
FYA - Flashing Yellow Arrow
FYU - Flashing Yellow Uturn Arrow

Barrier

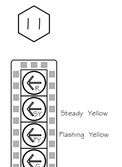
Pedestrian Phase — Protected Phase — Permitted Phase



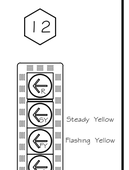
Type "F"
3 Section 12" Vehicle Signal Head
Mounted on Signal Pole



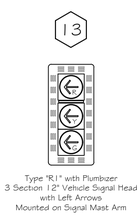
Type "F1" with Plumbizer
3 Section 12" Vehicle Signal Head
Mounted on Signal Mast Arm



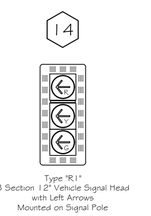
Type "FA"
4 Section 12" Signal Head
Mounted on Signal Pole



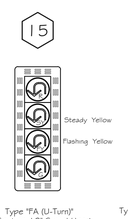
Type "FA1" with Plumbizer
4 Section 12" Signal Head
Mounted on Signal Mast Arm



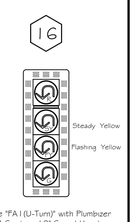
Type "R1" with Plumbizer
3 Section 12" Vehicle Signal Head
with Left Arrows
Mounted on Signal Mast Arm



Type "R1"
3 Section 12" Vehicle Signal Head
with Left Arrows
Mounted on Signal Pole



Type "FA (U-Turn)"
4 Section 12" Signal Head
Mounted on Signal Pole



Type "FA1 (U-Turn)" with Plumbizer
4 Section 12" Signal Head
Mounted on Signal Mast Arm



R9-3A



R9-3BL



R9-3A



R9-3BR



R10-101
Mounted on
Signal Mast Arm



R10-101(U-Turn)
Mounted on
Signal Mast Arm

- Video Detection - 3 New
- LED Luminaire - 4 New
- Illuminated Street Sign - 3 New
- Sign at Traffic Signal - 1 New
- Pedestrian Head - 4 New
- APS Pedestrian Push Buttons - 4 New
- Wireless Radio - 1 New
- CCTV Camera - 1 New
- Single EVP Device - 1 New
- Dual EVP Device - 1 New
- Mast Arm Damper - 1 New

N

Registered Professional Engineer (Civil)
CERTIFICATE NO.
39284
TRENT W.
THATCHER
Date Signed 05/09/2024
Not Valid Without Signature and Seal

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	321	368

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: CMW	DES: CMW	CK: TWT	DATE: 05/24

EQUIPMENT LIST

- C — 8 Phase Controller Cabinet for Signal - 1 New
- P — Type B Power Service Pedestal w/Battery Backup - 1 New
- 1 — Traffic Signal Pole Type P70 - 1 New
- 2 — Traffic Signal Pole Type P45 - 2 New
- 3 — Traffic Signal Pole Type LP - 1 New
- 4 — Traffic Signal Pole Type AP - 2 New
- 5 — P70 60' Signal Mast Arm - 2 New
- 6 — P70 45' Signal Mast Arm - 1 New
- 7 — 5' Riser, Single Shoe - 3 New
- 8 — 20' Riser, Single Shoe - 1 New
- 9 — Type F 12" Signal Head - 3 New Signal Pole Mount
- 10 — Type F1 12" Signal Head - 7 New Mast Arm Mount w/Plumbizer
- 11 — Type FA 12" Signal Head, Left Arrows - 1 New Signal Pole Mount
- 12 — Type FA1 12" Signal Head, Left Arrows - 1New Mast Arm Mount w/Plumbizer
- 13 — Type R1 12" Signal Head, Left Arrows - 2 New Mast Arm Mount w/Plumbizer
- 14 — Type R1 12" Signal Head, Left Arrows - 1 New Signal Pole Mount
- 15 — Type FA (U-Turn) 12" Signal Head - 1 New Mounted on Signal Pole
- 16 — Type FA1 (U-Turn) 12" Signal Head - 1 New Mast Arm Mount w/Plumbizer

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APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE: _____

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE: _____

TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 61st AVENUE
ST85100437
EQUIPMENT

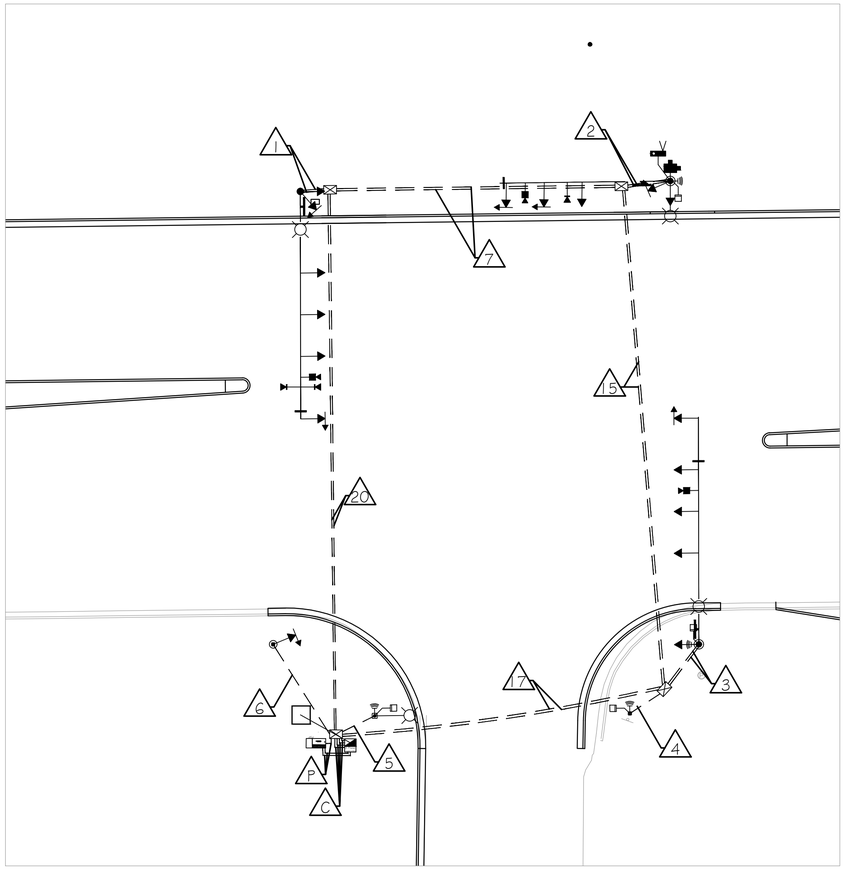
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DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		
SCALE: 1" = 20'		QS. #:	2	4

TRAFFIC SIGNAL HAPPY VALLEY AT 61st AVENUE

PROJECT #: ST85100437

FILE #: 11586

DATE SAVED: 5/9/24 C:\USERS\CMWASCOVICH\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D055C9G4\ST85100437_61STAVE.DWG



Happy Valley Road

61st Avenue

C Controller to #7 Junction Box

CONDUIT 1	CONDUIT 2	CONDUIT 3	CONDUIT 4
#10 Bare Copper #10 AWG White 42C IM5A Cable	#10 Bare Copper Video Detection (3) EVP Detection Cable (3) EVP Confirmation Cable (3) CCTV Cable (1) ITS Cable (1)	#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green	Detectible Mule Tape

P1 Power Service Pedestal to #7 Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green 3C IM5A Cable (Radio) 5C IM5A Cable	Detectible Mule Tape

P2 Power Service Pedestal to Controller

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green	Detectible Mule Tape

1 NWC Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IM5A Cable 42C IM5A Cable	#10 Bare Copper Detection Camera Cable (2) EVP Detection Cable (2) EVP Confirmation Cable (2)

2 NEC Junction Box to P45 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IM5A Cable 42C IM5A Cable	#10 Bare Copper Detection Camera Cable (2) EVP Detection Cable (2) EVP Confirmation Cable (2)

3 SEC Junction Box to P45 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IM5A Cable 42C IM5A Cable	#10 Bare Copper Detection Camera Cable (2) EVP Detection Cable (2) EVP Confirmation Cable (2)

4 SWC Junction Box to AP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 5C IM5A Cable 42C IM5A Cable

5 SWC Junction Box to LP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IM5A Cable 25C IM5A Cable 3C IM5A Cable (LUM)(1)

6 SWC Junction Box to AP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 25C IM5A Cable

13 NWC Junction Box to NEC Junction Box

CONDUIT 1	CONDUIT 2
Detectable Mule Tape	Detectable Mule Tape

15 NEC Junction Box to SEC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IM5A Cable 42C IM5A Cable 3C IM5A Cable (RADIO) (1)	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (1) EVP Confirmation Cable (1) CCTV Cable (1) ITS Cable (1)

17 SEC Junction Box to SWC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IM5A Cable 42C IM5A Cable 3C IM5A Cable (RADIO) (1)	#10 Bare Copper Video Detection Cable (2) EVP Detection Cable (1) EVP Confirmation Cable (1) CCTV Cable (1) ITS Cable (1)

19 SWC Junction Box to NWC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IM5A Cable 42C IM5A Cable	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (2) EVP Confirmation Cable (2)

Registered Professional Engineer (Civil) CERTIFICATE NO. 39284 TRENT W. THATCHER Date Signed 05/30/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	322	368

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: CMW	DES: CMW	CK: TWT	DATE: 05/24

CONDUIT RUNS:

JB TO CONTROLER - C
PSP TO JB, PSP TO CONTROLLER - P

ALL CONDUIT RUN NUMBERING STARTS IN NWC

POLES

JB TO MAST ARM POLE - 1, 2,3,4
JB TO AP/LP POLE ON CORNERS - 5,6,7,8
JB TO AP POLE IN ISLAND OR BP POLE ON CORNER - 9,10,11,12

JUNCTION BOXES - ROADWAY WITH MEDIAN ISLAND CONDUTI RUNS

NWC JB TO NORTH ISLAND JB - 13
NORTH ISLAND JB TO NEC - 14
NEC TO EAST ISLAND - 15
EAST ISLAND TO SEC - 16
SEC TO SOUTH ISLAND - 17
SOUTH ISLAND TO SWC - 18
SWC TO WEST ISLAND - 19
WEST ISLAND TO NWC - 20

ROADWAY WITH OUT MEDIAN ISLAND CONDUIT RUNS

NWC TO NEC - 13
NEC TO SEC - 15
SEC TO SWC 17
SWC TO NWC - 19

TRAFFIC SIGNAL HAPPY VALLEY AT 61st AVENUE

PROJECT #: ST85100437

FILE #: 11586

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 61st AVENUE
ST85100437

WIRING

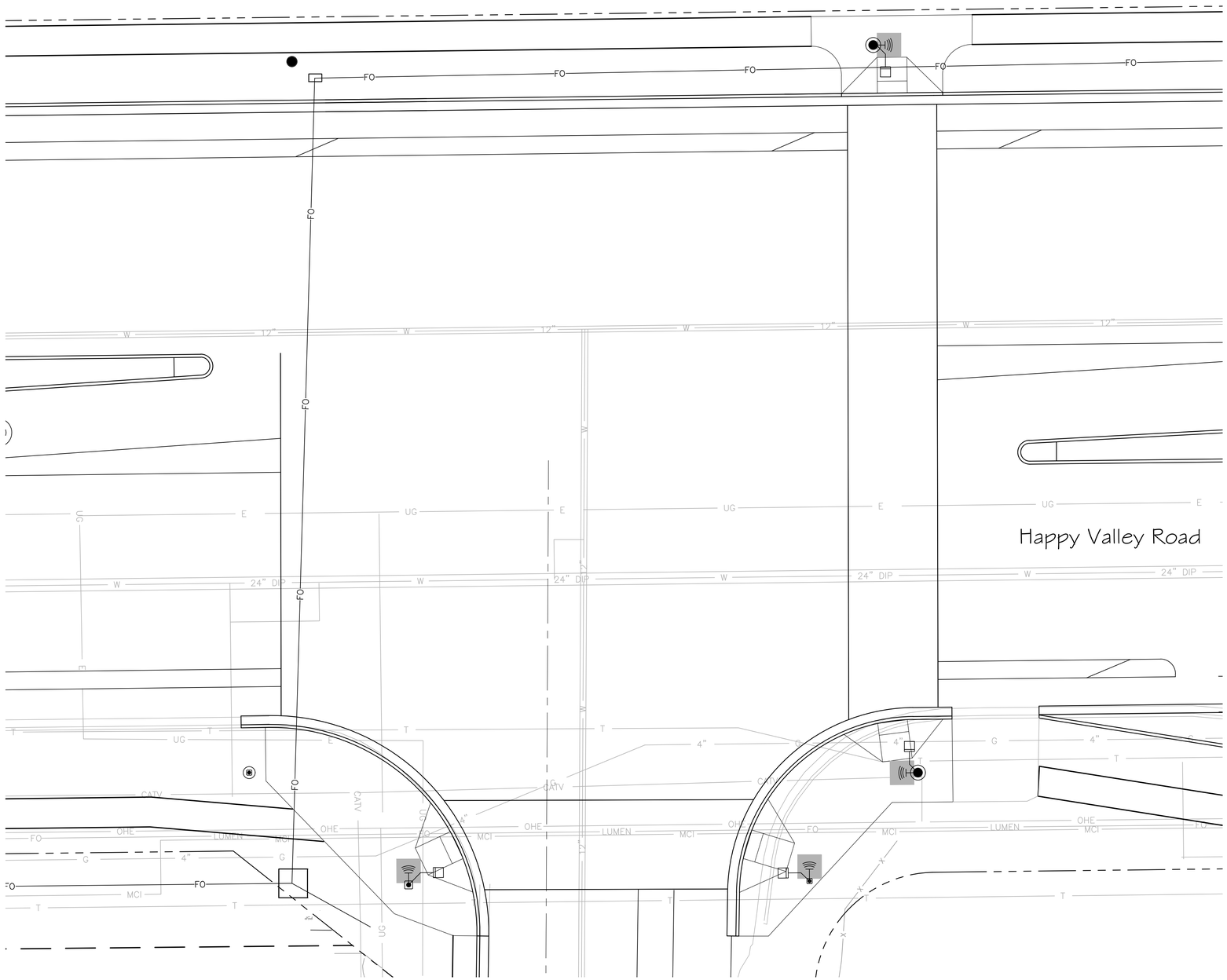
APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

PROJECT #:			FILE NO: 11586
DR: CMW	DES: CMW	CK: TWT	SHEET NO: 3 / TOTAL SHEETS 4
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	
SCALE: 1" = 20'		QS. #:	

DATE SAVED: 5/9/24 C:\USERS\CMWASCOVICH\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0556964\ST85100437_61STAVE.DWG



Registered Professional Engineer (Civil)
CERTIFICATE NO.
39284
TRENT W.
THATCHER
State Expires 09/30/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	323	368

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: CMW	DES: CMW	CK: TWT	DATE: 05/24

FOR INFORMATION ONLY
SEE PAVING SHEETS FOR RAMP DESIGN
SEE FOUNDATION SHEET FOR POLE LOCATIONS AND TYPE

TRAFFIC SIGNAL HAPPY VALLEY AT 61st AVENUE

PROJECT #: ST85100437

FILE #: 11586

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APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

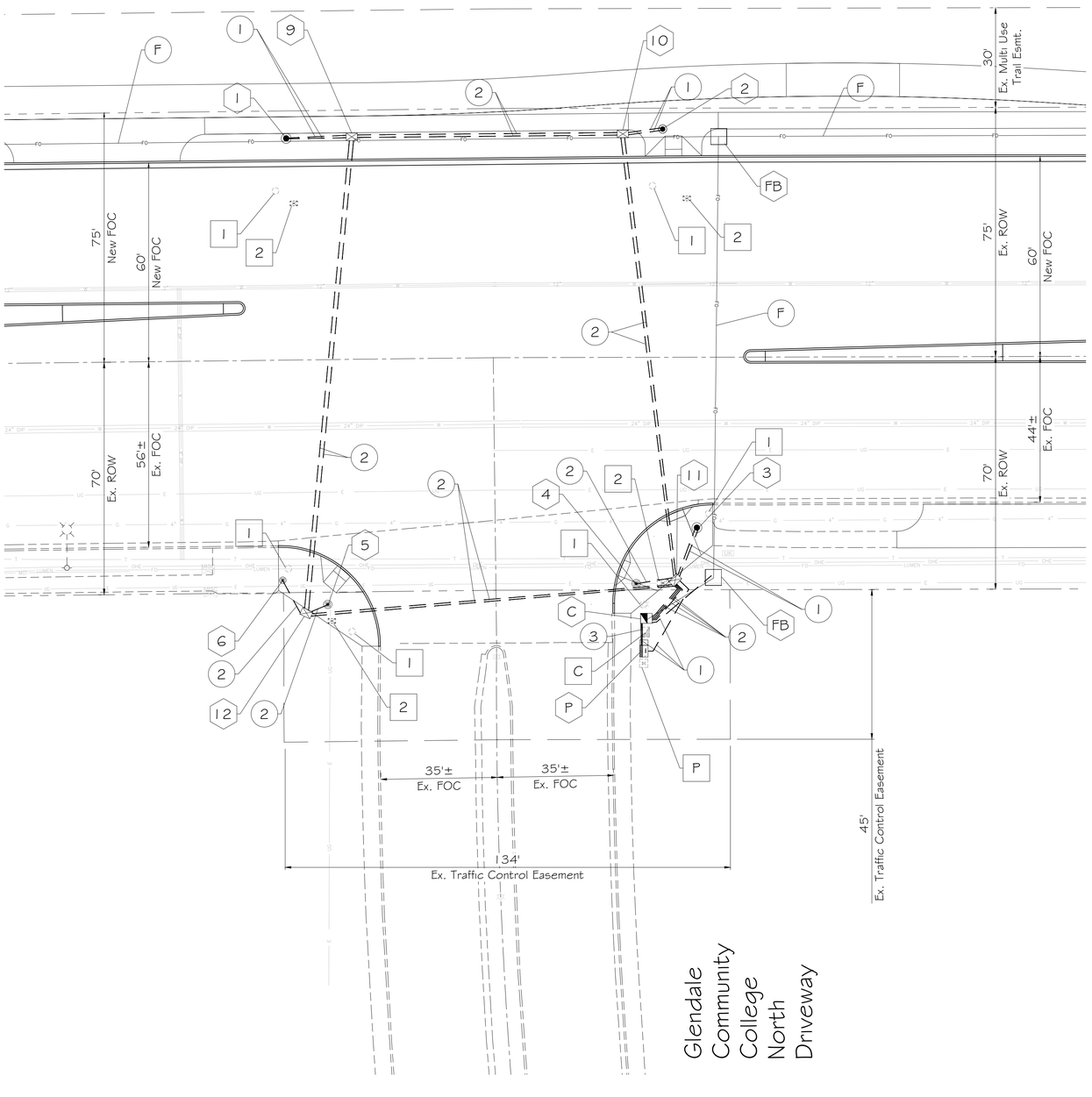
TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 61st AVENUE
ST85100437
RAMP DETAILS

PROJECT #:			FILE NO: 11586
DR: CMW	DES: CMW	CK: TWT	SHEET NO: 4 / TOTAL SHEETS: 4
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	
SCALE: 1"=10'		QS. #:	

DATE SAVED: 5/9/24 C:\USERS\CMWASCOVICH\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0556964\ST85100437_61STAVE.DWG



1. GENERAL NOTES:

1.1 The contractor shall notify the City of Phoenix Traffic Signal Shop (602-262-6733) a minimum of fourteen (14) calendar days prior to beginning any traffic signal work. Submittals of all equipment shall be furnished to the Signal Shop and approved prior to ordering any traffic signal equipment. The contractor shall verify they have the current approved plan set prior to starting and ordering any equipment.

1.2 The contractor shall layout all ADA ramps, junction boxes and foundation locations for approval by a traffic signal representative. Contractor must have a current visible Bluestake showing all utilities. All ADA ramps shall be laid out in white marking paint to determine best traffic signal pole locations.

1.3 Traffic Signal Plan approval is valid for 365 calendar days from date sealed. If signal construction has not begun prior to the 365 days elapsing, the signal plans must be re-submitted for approval or an extension granted by the Deputy Director of Traffic Services or an authorized representative to ensure that existing traffic signal equipment locations and standard detail references are current.

1.4 All traffic signal equipment and materials shall follow the current City of Phoenix Traffic Signal Standard Details and Specifications (www.phoenix.gov/streets/reference-material). The contractor shall have a copy of these standards along with a complete set of approved plans on site at all times during signal and lighting systems construction. The contractor shall have a competent supervisor capable of reading and understanding plans and specifications and thoroughly experienced in the construction of traffic signals. The contractor's supervisor or lead shall possess a current International Municipal Signal Association (IMSA) Level II Traffic Signal Electrician Certification and must be on site during any traffic signal construction activities. It will be the responsibility of the contractor to supply verification of certification. If a jobsite is inspected and a certified Electrician is not on site, a stop work order will be issued.

1.5 The contractor is responsible for the construction of the project; its planning, safety, quality and completion. The City of Phoenix inspection team would make the determination if the work performed meets the criteria and if not, may request that the work be redone at the contractor's expense.

1.6 Foundation elevations must be within 1/4" of finished sidewalk grade.

1.7 A minimum of a four (4) foot clear path is required around all traffic signal poles. A four by four (4x4) flat landing centered on the pedestrian push button must be maintained as provided on the Traffic Signal Standard Details (see note 1.4).

1.8 Contractor shall verify location and orientation of all pole and mast arm mounted equipment on all new traffic signal poles and mast arms with the Traffic Signal shop's representative prior to drilling any holes in the poles or mast arms. Failure to get approval may result in replacement of the pole at the contractor's expense.

2. WORK TO BE PERFORMED BY THE CONTRACTOR

The contractor shall supply all materials and perform all work except as indicated in note 3.

3. WORK TO BE PERFORMED BY CITY OF PHOENIX SIGNAL CREWS

Traffic Signal representative shall approve marked layout of ADA ramps, junction boxes and foundation locations prior to excavation, prep contractor furnished controller cabinets and internal equipment (contractor to pick up and install controller cabinet), inspect and approve all traffic signal equipment installed by contractor and terminate, test and activate all field wiring into controller cabinet(s).

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 49930 TRACY ELIZABETH EBERLEIN Date Signed 10/04/2024 ARIZONA

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	324	368

AZTEC TYPSA

DR: HSY | DES: HSY | CK: TEE | DATE: 05/2024

PROPOSED FOUNDATION SCHEDULE

NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM GCC NORTH MON LINE
C	CONT	79 ft. SOUTH	44 ft. EAST
P	PSP	88 ft. SOUTH	44 ft. EAST
1	P70	67 ft. NORTH	62 ft. WEST
2	P45	69 ft. NORTH	40 ft. EAST
3	P70	51 ft. SOUTH	61 ft. EAST
4	LP	68 ft. SOUTH	42 ft. EAST
5	LP	74 ft. SOUTH	51 ft. WEST
6	GP	66 ft. SOUTH	64 ft. WEST

PROPOSED JUNCTION BOX SCHEDULE

NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM GCC NORTH MON LINE
9	#7	67 ft. NORTH	42 ft. WEST
10	#7	70 ft. NORTH	52 ft. EAST
11	#7	67 ft. SOUTH	54 ft. EAST
12	#7	76 ft. SOUTH	57 ft. WEST

INSTALL

- (C) 8 Phase Controller Foundation - See Foundation Schedule
- (P) Type B Power Service Pedestal Foundation w/Battery Backup See Foundation Schedule
- (1) thru (6) See Foundation Schedule
- (9) thru (12) See Junction Box Schedule
- (FB) Fiber Optic Junction Box - See Roadway Plans
- (1) 2" Schedule 40 PVC
- (2) 2 1/2" Schedule 40 PVC
- (3) 1" Schedule 40 PVC
- (F) Fiber Optic Conduit - See Roadway Plans

REMOVE

- (1) Traffic Signal Foundation - 6
- (2) Traffic Junction Boxes - 4
- (P) Power Service Pedestal - 1
- (C) Controller - 1

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TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT GCC NORTH
ST85100437
FOUNDATION

APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

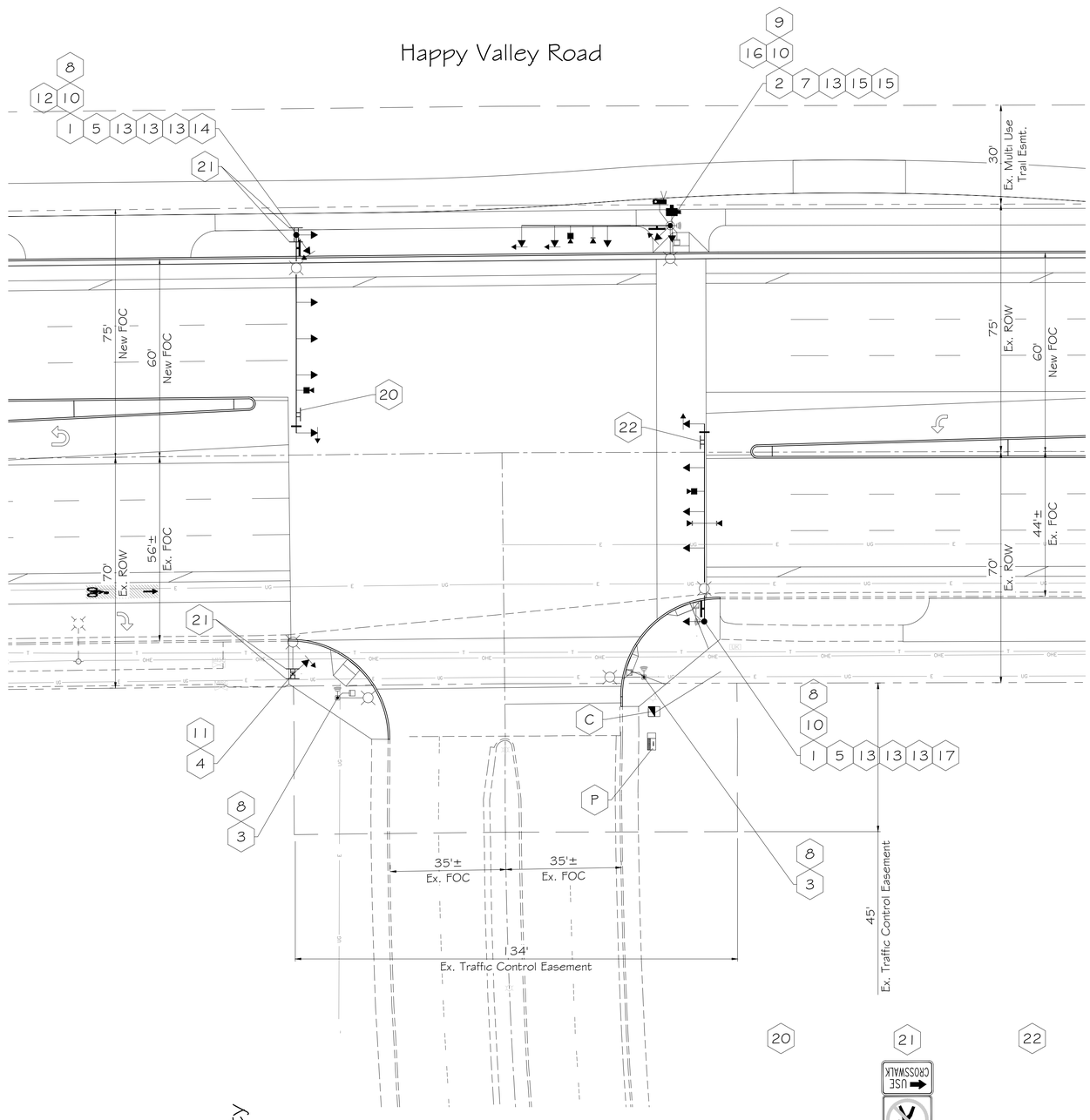
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DR: HSY	DES: HSY	CK: TEE	SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		
SCALE: 1" = 20'		QS. #:	1	4

TRAFFIC SIGNAL: HAPPY VALLEY AT GCC NORTH

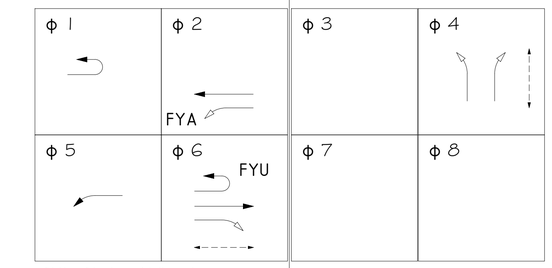
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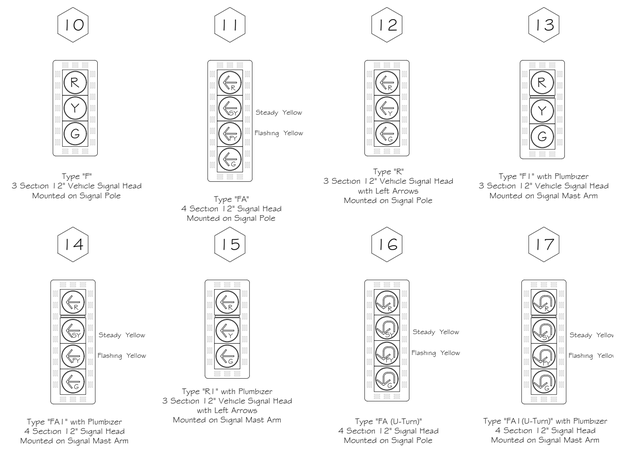
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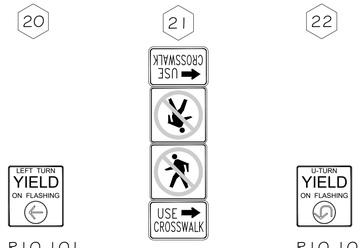
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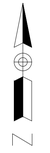
FOR ADDITIONAL SIGNS AND PAINT AND SIGNING INFORMATION
SEE STD DWG # 11589







- Video Detection - 3 New
- LED Luminaire - 6 New
- Illuminated Street Sign - 3 New
- Sign at Traffic Signal - 5 New
- Pedestrian Head - 6 New
- APS Pedestrian Push Buttons - 6 New
- Wireless Radio - 1 New
- CCTV Camera - 1 New
- Dual EVP Device - 2 New
- Mast Arm Damper - 2 New



REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 49930 TRACY ELIZABETH EBERLEIN Date Signed 10/31/24 ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	325	368

AZTEC TYPSA

DR: HSY	DES: HSY	CK: TEE	DATE: 05/2024

EQUIPMENT LIST

- C — 8 Phase Controller Cabinet for Signal - 1 New
- P — Type B Power Service Pedestal w/Battery Backup - 1 New
- 1 — Traffic Signal Pole Type P70 - 2 New
- 2 — Traffic Signal Pole Type P45 - 1 New
- 3 — Traffic Signal Pole Type LP - 2 New
- 4 — Traffic Signal Pole Type GP - 1 New
- 5 — P70 60' Signal Mast Arm - 2 New
- 7 — P45 45' Signal Mast Arm - 1 New
- 8 — 5' Riser, Single Shoe - 4 New
- 9 — 20' Riser, Single Shoe - 1 New
- 10 — Type F 12" Signal Head - 3 New Signal Pole Mount
- 11 — Type FA 12" Signal Head, Left Arrows - 1 New Signal Pole Mount
- 12 — Type R 12" Signal Head, Left Arrows - 1 New Signal Pole Mount
- 13 — Type F1 12" Signal Head - 7 New Mast Arm Mount w/Plumbizer
- 14 — Type FA1 12" Signal Head, Left Arrows - 1 New Mast Arm Mount w/Plumbizer
- 15 — Type R1 12" Signal Head, Left Arrows - 2 New Mast Arm Mount w/Plumbizer
- 16 — Type FA (U-Turn) 12" Signal Head - 1 New Signal Pole Mount
- 17 — Type FA1 (U-Turn) 12" Signal Head - 1 New Mast Arm Mount w/Plumbizer

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ARIZONA811 Call 811 or click Arizona811.com

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APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE: _____

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE: _____

TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT GCC NORTH
ST85100437
EQUIPMENT

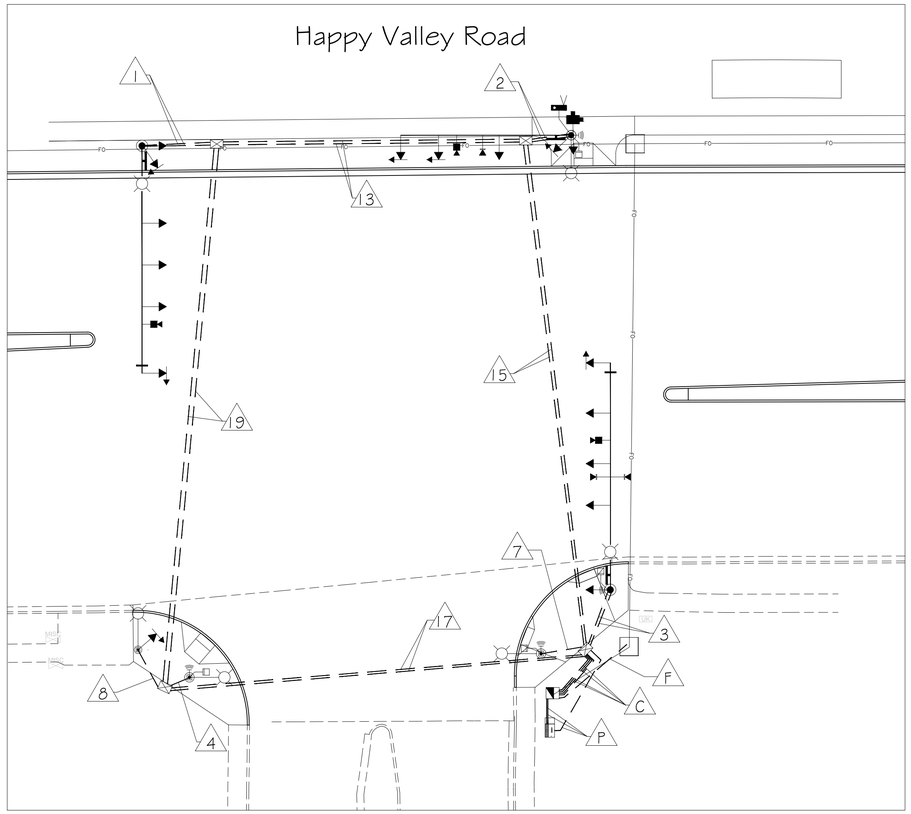
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DR: HSY	DES: HSY	CK: TEE	SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		
SCALE: 1" = 20'		QS. #:	2	4

TRAFFIC SIGNAL: HAPPY VALLEY AT GCC NORTH

PROJECT #: ST85100437

FILE #: 11585

DATE SAVED: 5/27/24 C:\USERS\HYOUNG\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0522673\ST85100437_GCC_11585.DWG



C — Controller to #7 Junction Box

CONDUIT 1	CONDUIT 2	CONDUIT 3	CONDUIT 4
#10 Bare Copper #10 AWG White 42C IMSA Cable	#10 Bare Copper Video Detection (4) EVP Detection Cable (4) EVP Confirmation Cable (4) CCTV Cable (1) ITS Cable (1)	#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green	Detectible Mule Tape

P1 — Power Service Pedestal to #7 Junction Box

CONDUIT 1
#10 Bare Copper 3C IMSA Cable (LUM) 3C IMSA Cable (SIGN) 3C IMSA Cable (RADIO) 5C IMSA Cable

P2 — Power Service Pedestal to Controller

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green	Detectible Mule Tape

1 — NWC Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1)	#10 Bare Copper Video Detection Cable (1)

2 — NEC Junction Box to P45 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1) 3C IMSA Cable (RADIO) (1)	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (1) EVP Confirmation Cable (1) CCTV Cable (1) ITS Cable (1)

3 — SEC Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1)	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (2) EVP Confirmation Cable (2)

4 — SWC Junction Box to LP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable (LUM) (1) 25C IMSA Cable

7 — SEC Junction Box to LP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable 3C IMSA Cable (LUM)(1)

8 — SEC Junction Box to GP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable 3C IMSA Cable (LUM)(1)

13 — NWC Junction Box to NEC Junction Box

CONDUIT 1	CONDUIT 2
Detectible Mule Tape	Detectible Mule Tape

15 — NEC Junction Box to SEC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable 3C IMSA Cable (RADIO) (1)	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (2) EVP Confirmation Cable (2) CCTV Cable (1) ITS Cable (1)

17 — SEC Junction Box to SWC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Video Detection Cable (1)

19 — SWC Junction Box to NWC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Video Detection Cable (1)

F — Fiber Junction Box to Controller

CONDUIT 1
Detectible Mule Tape

SHEET 7

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 49930 TRACY ELIZABETH EBERLEIN Date Signed 5/27/24 ARIZONA

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	326	368

AZTEC TYPSA

DR: HSY	DES: HSY	CK: TEE	DATE: 05/2024

TRAFFIC SIGNAL/HAPPY VALLEY AT GCC NORTH

PROJECT #: ST85100437

FILE #: 11585

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

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TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT GCC NORTH
ST85100437
WIRING

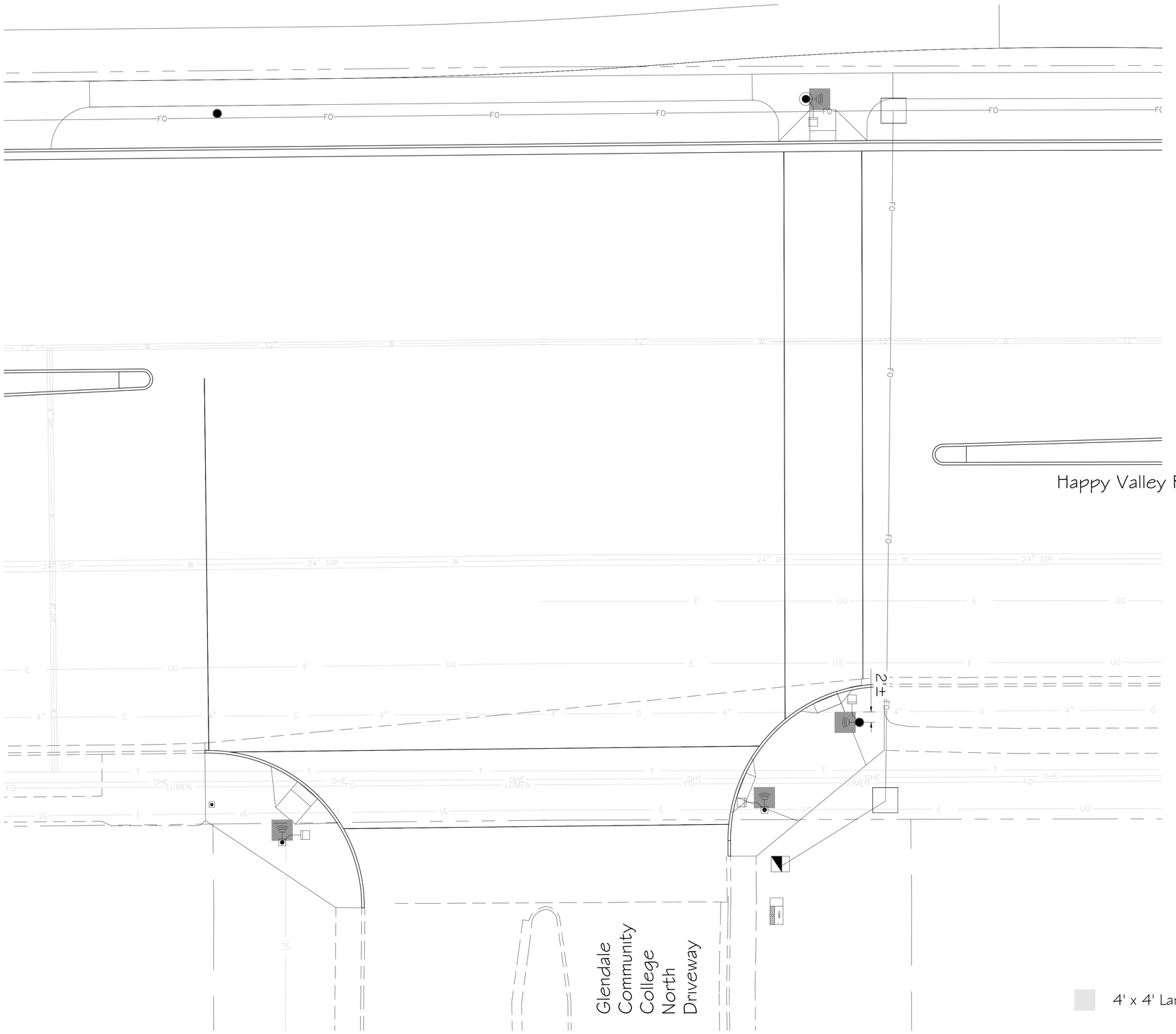
APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

PROJECT #:			FILE NO: 11585
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DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	
SCALE: 1" = 20'		QS. #:	

DATE SAVED: 5/27/24 C:\USERS\HYOUNG\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0522673\ST85100437_GCC_11585.DWG



FOR INFORMATION ONLY
SEE ROADWAY SHEETS FOR RAMP DESIGN
SEE FOUNDATION SHEET FOR POLE LOCATIONS AND TYPE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	327	368

AZTEC TYPSA

DR: HSY	DES: HSY	CK: TEE	DATE: 05/2024

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 49930 TRACY ELIZABETH EBERLEIN Date Signed 5/24/2024 ARIZONA U.S.A.

RAMP DETAILS: HAPPY VALLEY AT GCC NORTH

PROJECT #: ST85100437

FILE #: 11585

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

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ARIZONA811
Call 811 or click Arizona811.com

RAMP DETAILS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT GCC NORTH
ST85100437
RAMP DETAILS

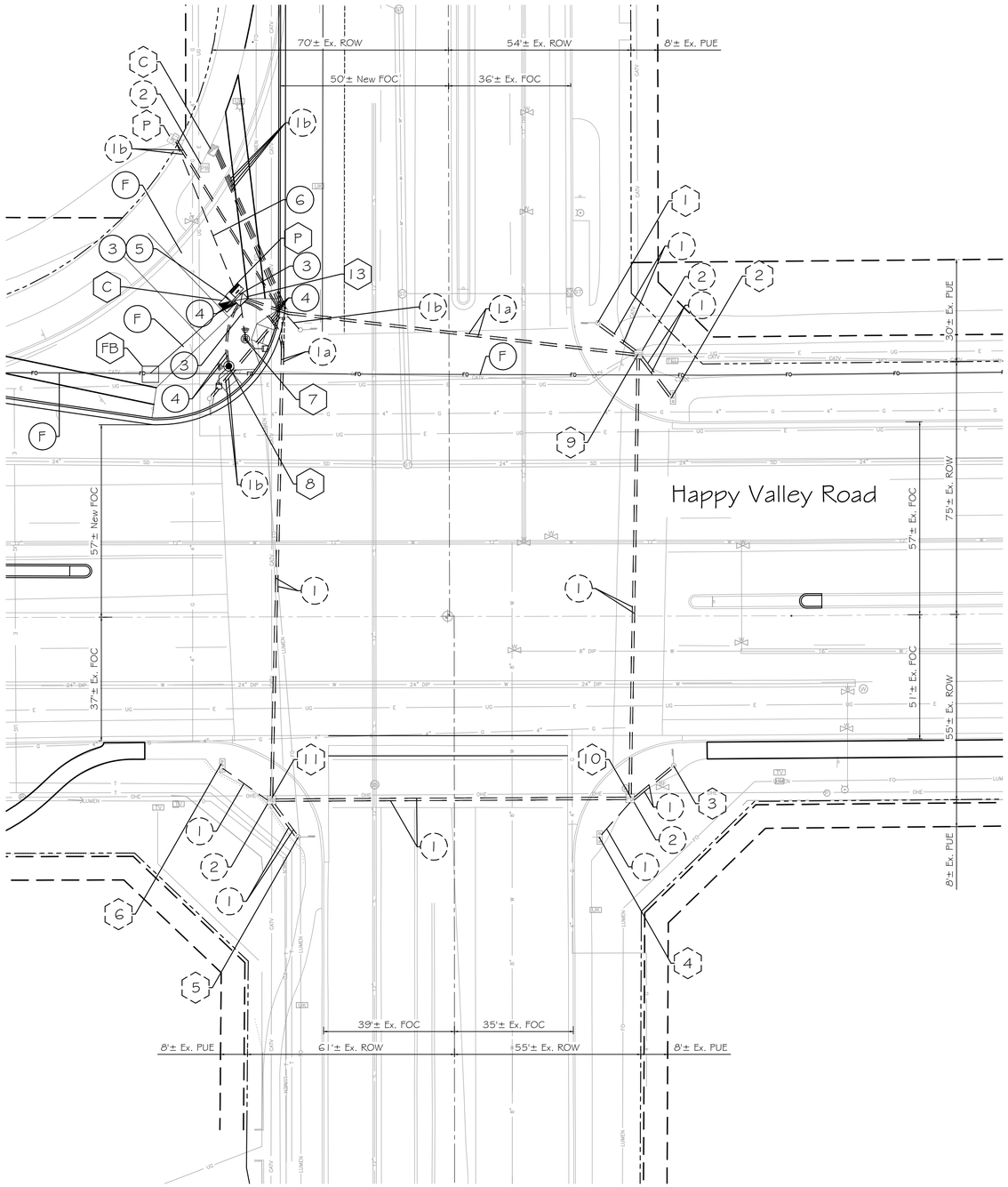
APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

PROJECT #:			FILE NO: 11585
DR: HSY	DES: HSY	CK: TEE	SHEET NO: 4 / TOTAL SHEETS 4
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	
SCALE: 1" = 20'		QS. #:	

DATE SAVED: 5/27/24 C:\USERS\HYOUNG\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0522673\ST85100437_GCC_11585.DWG



1. GENERAL NOTES: Contractor as referenced herein is the Developer Contractor.

1.1 The contractor shall notify the City of Phoenix Traffic Signal Shop (602-262-6733) a minimum of fourteen (14) calendar days prior to beginning any traffic signal work. Submittals of all equipment shall be furnished to the Signal Shop and approved prior to ordering any traffic signal equipment. The contractor shall verify they have the current approved plan set prior to starting and ordering any equipment.

1.2 The contractor shall layout all ADA ramps, junction boxes and foundation locations for approval by a traffic signal representative. Contractor must have a current visible Bluestake showing all utilities. All ADA ramps shall be laid out in white marking paint to determine best traffic signal pole locations.

1.3 Traffic Signal Plan approval is valid for 365 calendar days from date sealed. If signal construction has not begun prior to the 365 days elapsing, the signal plans must be re-submitted for approval or an extension granted by the Deputy Director of Traffic Services or an authorized representative to ensure that existing traffic signal equipment locations and standard detail references are current.

1.4 All traffic signal equipment and materials shall follow the current City of Phoenix Traffic Signal Standard Details and Specifications. (www.phoenix.gov/streets/reference-material) The contactor shall have a copy of these standards along with a complete set of approved plans on site at all times during signal and lighting systems construction. The contractor shall have a competent supervisor capable of reading and understanding plans and specifications and thoroughly experienced in the construction of traffic signals. The contractor's supervisor or lead shall possess a current International Municipal Signal Association (IMSA) Level II Traffic Signal Electrician Certification and must be on site during any traffic signal construction activities. It will be the responsibility of the contractor to supply verification of certification. If a jobsite is inspected and a certified Electrician is not on site, a stop work order will be issued.

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2. WORK TO BE PERFORMED BY THE CONTRACTOR

The contractor shall supply all materials and perform all work except as indicated in note 3.

3. WORK TO BE PERFORMED BY CITY OF PHOENIX SIGNAL CREWS

Traffic Signal representative shall approve marked layout of ADA ramps, junction boxes and foundation locations prior to excavation, prep contractor furnished controller cabinets and internal equipment (contractor to pick up and install controller cabinet), inspect and approve all traffic signal equipment installed by contractor and terminate, test and activate all field wiring into controller cabinet(s).

The City of Phoenix traffic signal crews will provide and install all above ground traffic signal equipment including:

- All controllers
- Power service pedestal mounting ring
- Type "B" power service pedestal w/ battery backup
- Poles, mast arms, risers and luminaire mast arms not identified in note 2.1
- All pole grouting
- All signal heads
- All pedestrian heads
- All accessible pedestrian signal (APS) push buttons
- All LED luminaires
- All illuminated street signs
- All signal wiring
- All loop and non-invasive detectors
- All cameras and all radios

4. SITE SPECIFIC NOTES

4.1 Four existing 2 1/2" Schedule 40 PVC run from the Cabinet (C) to Junction Box (5). Proposed Junction Box (4) to be installed along conduit run. Cable coils in Junction Box (5) to be relocated to Junction Box (4). Conduit within Junction Box (5) to be replaced with 2 1/2" Schedule 40 PVC split conduit. Junction Box (5) to be removed.

4.2 Junction Box (6) to be removed. Proposed cables to connect to existing cables in Junction Box (6).

Registered Professional Engineer (Civil) CERTIFICATE NO. 39284 TRENT W. THATCHER State of Arizona 4/1/24

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	328	368

WILSON & COMPANY 410 North 44th Street Suite 460 Phoenix, Arizona 85008

DR: CMW	DES: CMW	CK: TWT	DATE: 05/24

EXISTING FOUNDATION SCHEDULE			
NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM 55th AVENUE MON LINE
1	P40	87 ft. NORTH	44 ft. EAST
2	LP	65 ft. NORTH	66 ft. EAST
3	P55	45 ft. SOUTH	65 ft. EAST
4	LP	66 ft. SOUTH	43 ft. EAST
5	P35	65 ft. SOUTH	46 ft. WEST
6	LP	44 ft. SOUTH	69 ft. WEST

PROPOSED FOUNDATION SCHEDULE			
NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM 55th AVENUE MON LINE
7	LP	88 ft. NORTH	60 ft. WEST
8	P70	75 ft. NORTH	65 ft. WEST

EXISTING JUNCTION BOX SCHEDULE			
NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM 55th AVENUE MON LINE
9	EX	78 ft. NORTH	56 ft. EAST
10	EX	54 ft. SOUTH	52 ft. EAST
11	EX	54 ft. SOUTH	54 ft. WEST

PROPOSED JUNCTION BOX SCHEDULE			
NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM 55th AVENUE MON LINE
12	#7	128 ft. NORTH	55 ft. WEST
13	#7	91 ft. NORTH	54 ft. EAST

EXISTING

- (C) Existing Controller with Foundation - Remove
- (P) Existing Power Service Pedestal with Foundation - Remove
- (1) Existing 2 1/2" Schedule 40 PVC - Protect-In-Place
- (1a) Existing 2 1/2" Schedule 40 PVC - To Be Extended and Routed to Proposed Junction Box as Shown on Plans
- (1b) Existing 2 1/2" Schedule 40 PVC - To Be Removed
- (2) Existing Traffic Junction Box - Protect-In-Place

INSTALL

- (1) thru (8) See Foundation Schedule
- (9) thru (13) See Junction Box Schedule
- (FB) Fiber Optic Junction Box - See Roadway Plans
- (3) 2" Schedule 40 PVC
- (4) 2 1/2" Schedule 40 PVC
- (5) 1" Schedule 40 PVC
- (6) 3" Schedule 40 PVC
- (F) Fiber Optic Conduit - See Roadway Plans

Contact Arizona 811 at least two full working days before you begin excavation. ARIZONA811 Call 811 or visit Arizona811.com

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 55th AVENUE ST85100437

FOUNDATION

APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE: _____

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE: _____

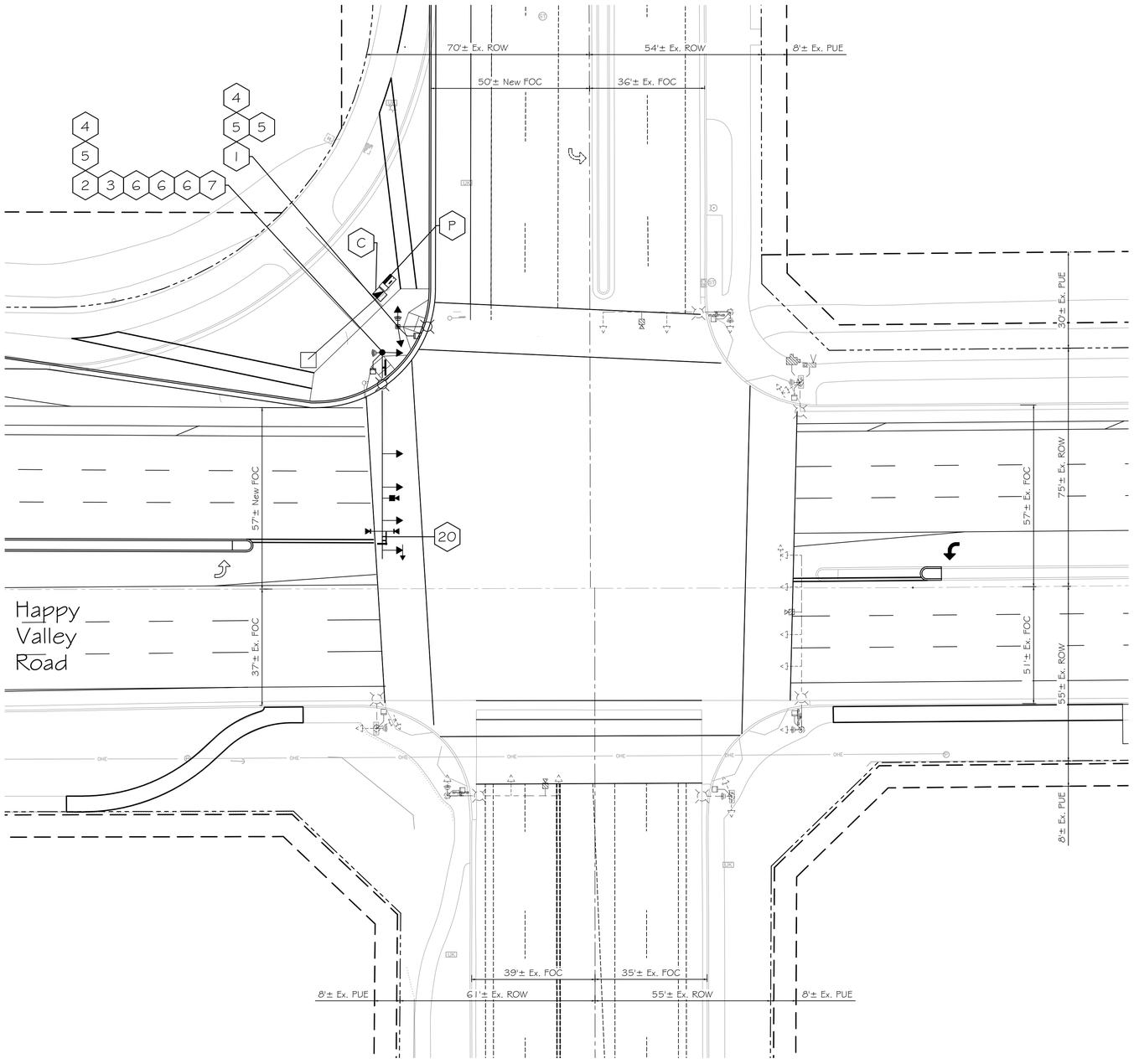
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DR: CMW	DES: CMW	CK: TWT	SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		
SCALE: 1" = 20'		QS. #:	1	4

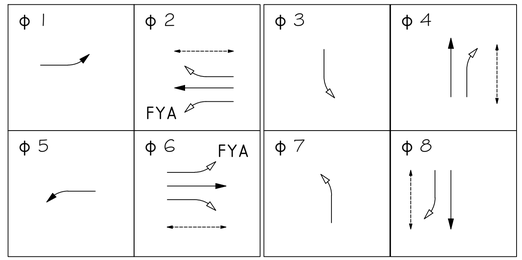
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PROJECT #: ST85100437

FILE #: 11586

DATE SAVED: 5/9/24 C:\USERS\CMWASCOVICH\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0556964\ST85100437_55THAVE.DWG

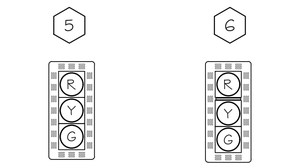




FYA - Flashing Yellow Arrow

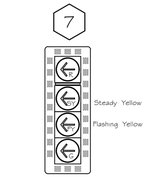
Barrier

Pedestrian Phase — Protected Phase — Permitted Phase



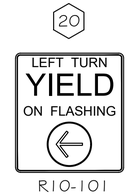
Type "F"
3 Section 12" Vehicle Signal Head
Mounted on Signal Pole

Type "F1" with Plumbizer
3 Section 12" Vehicle Signal Head
Mounted on Signal Mast Arm



Type "FA1" with Plumbizer
4 Section 12" Signal Head
Mounted on Signal Mast Arm

- Video Detection - 1 New
- LED Luminaire - 2 New
- Illuminated Street Sign - 1 New
- Sign at Traffic Signal - 1 New
- Pedestrian Head - 2 New
- APS Pedestrian Push Buttons - 2 New
- Dual EVP Device - 1 New
- Mast Arm Damper - 1 New



R10-101
Flashing Yellow

Registered Professional Engineer (Civil)
CERTIFICATE NO.
39284
TRENT W.
THATCHER
Date Signed 05/09/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	329	368

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: CMW	DES: CMW	CK: TWT	DATE: 05/24

EQUIPMENT LIST

- (C) 8 Phase Controller Cabinet for Signal - 1 New
- (P) Type B Power Service Pedestal w/Battery Backup - 1 New
- (1) Traffic Signal Pole Type LP - 1 New
- (2) Traffic Signal Pole Type P70 - 1 New
- (3) P70 65' Signal Mast Arm - 1 New
- (4) 5' Riser, Single Shoe - 2 New
- (5) Type F 12" Signal Head - 3 New Signal Pole Mount
- (6) Type F1 12" Signal Head - 3 New Mast Arm Mount w/Plumbizer
- (7) Type FA1 12" Signal Head, Left Arrows - 1 New Mast Arm Mount w/Plumbizer

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

Central Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

N

APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE: _____

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE: _____

TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 55th AVENUE
ST85100437

EQUIPMENT

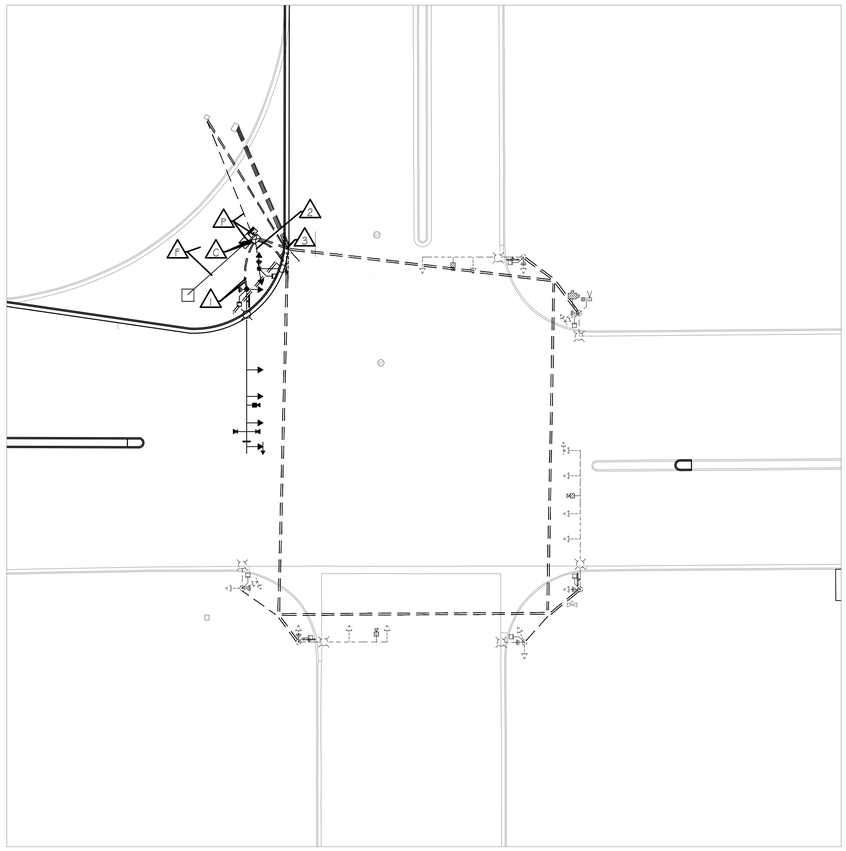
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DR: CMW	DES: CMW	CK: TWT	SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		
SCALE: 1" = 20'		QS. #:	2	4

TRAFFIC SIGNAL HAPPY VALLEY AT 55th AVENUE

PROJECT #: ST85100437

FILE #: 11586

DATE SAVED: 5/9/24 C:\USERS\CMWASCOVICH\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0556964\ST85100437_55THAVE.DWG



C Controller to #13 Junction Box

CONDUIT 1	CONDUIT 2	CONDUIT 3	CONDUIT 4
#10 Bare Copper #10 AWG White 42C IMSA Cable	#10 Bare Copper Detection Camera Cable (4) EVP Detection Cable (4) EVP Confirmation Cable (4) CCTV Cable (1) CAT 5e Cable (1)	#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green	Detectible Mule Tape

P Power Service Pedestal to NWC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green 3C IMSA Cable (RADIO) 5C IMSA Cable	Detectible Mule Tape

1 NWC Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1)	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (2) EVP Confirmation Cable (2

2 NWC Junction Box to LP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable 3C IMSA Cable (LUM) (1)

3 NWC Junction Box to Existing Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1)	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (2) EVP Confirmation Cable (2

F Controller to Fiber Junction Box

CONDUIT 1
Detectable Mule Tape

Registered Professional Engineer (Civil) CERTIFICATE NO. 39284 TRENT W. THATCHER Date Signed 05/09/2024 AZ U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	330	368

WILSON & COMPANY 410 North 44th Street Suite 460 Phoenix, Arizona 85008

DR: CMW	DES: CMW	CK: TWT	DATE: 05/24

TRAFFIC SIGNAL HAPPY VALLEY AT 55th AVENUE

PROJECT #: ST85100437

FILE #: 11586

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

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TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 55th AVENUE
ST85100437

WIRING

APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

PROJECT #:			FILE NO: 11586	
DR: CMW	DES: CMW	CK: TWT	SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		
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F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	331	368

Registered Professional Engineer (Civil) CERTIFICATE NO. 39284 TRENT W. THATCHER Date Signed 05/06/24

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: CMW	DES: CMW	CK: TWT	DATE: 05/24

FOR INFORMATION ONLY
SEE PAVING SHEETS FOR RAMP DESIGN
SEE FOUNDATION SHEET FOR POLE LOCATIONS AND TYPE

TRAFFIC SIGNAL HAPPY VALLEY AT 55th AVENUE

PROJECT #: ST85100437

FILE #: 11586

Contact Arizona 811 at least two full working days before you begin excavation
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PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 55th AVENUE
ST85100437

RAMP DETAILS

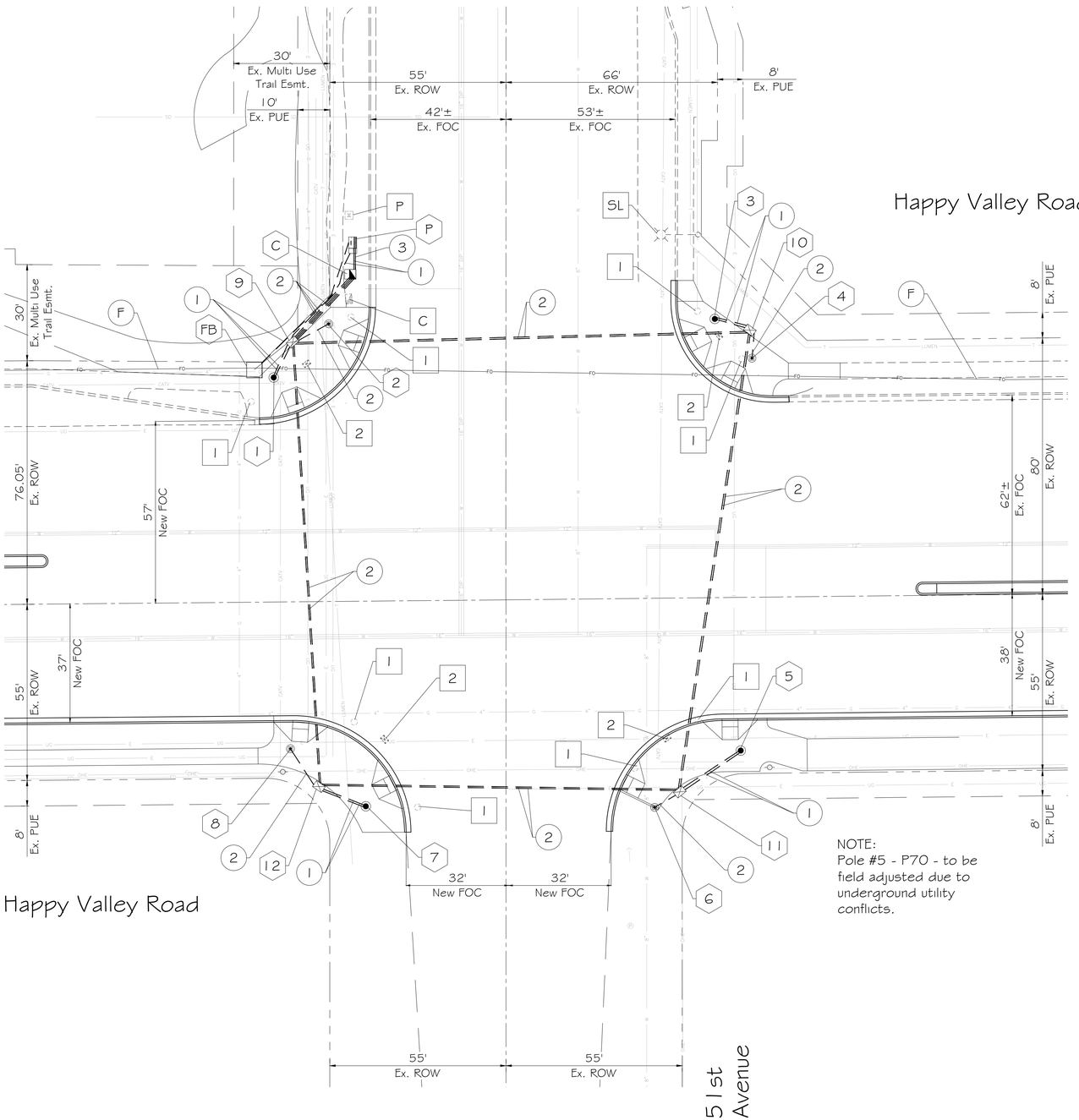
APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

PROJECT #:			FILE NO: 11586
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DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	
SCALE: 1"=10'		QS. #:	

DATE SAVED: 5/9/24 C:\USERS\CMWASCOVICH\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0556964\ST85100437_55THAVE.DWG



NOTE:
Pole #5 - P70 - to be field adjusted due to underground utility conflicts.

1. GENERAL NOTES:

1.1 The contractor shall notify the City of Phoenix Traffic Signal Shop (602-262-6733) a minimum of fourteen (14) calendar days prior to beginning any traffic signal work. Submittals of all equipment shall be furnished to the Signal Shop and approved prior to ordering any traffic signal equipment. The contractor shall verify they have the current approved plan set prior to starting and ordering any equipment.

1.2 The contractor shall layout all ADA ramps, junction boxes and foundation locations for approval by a traffic signal representative. Contractor must have a current visible Bluestake showing all utilities. All ADA ramps shall be laid out in white marking paint to determine best traffic signal pole locations.

1.3 Traffic Signal Plan approval is valid for 365 calendar days from date sealed. If signal construction has not begun prior to the 365 days elapsing, the signal plans must be re-submitted for approval or an extension granted by the Deputy Director of Traffic Services or an authorized representative to ensure that existing traffic signal equipment locations and standard detail references are current.

1.4 All traffic signal equipment and materials shall follow the current City of Phoenix Traffic Signal Standard Details and Specifications (www.phoenix.gov/streets/reference-material). The contractor shall have a copy of these standards along with a complete set of approved plans on site at all times during signal and lighting systems construction. The contractor shall have a competent supervisor capable of reading and understanding plans and specifications and thoroughly experienced in the construction of traffic signals. The contractor's supervisor or lead shall possess a current International Municipal Signal Association (IMSA) Level II Traffic Signal Electrician Certification and must be on site during any traffic signal construction activities. It will be the responsibility of the contractor to supply verification of certification. If a jobsite is inspected and a certified Electrician is not on site, a stop work order will be issued.

1.5 The contractor is responsible for the construction of the project; its planning, safety, quality and completion. The City of Phoenix inspection team would make the determination if the work performed meets the criteria and if not, may request that the work be redone at the contractor's expense.

1.6 Foundation elevations must be within 1/4" of finished sidewalk grade.

1.7 A minimum of a four (4) foot clear path is required around all traffic signal poles. A four by four (4x4) flat landing centered on the pedestrian push button must be maintained as provided on the Traffic Signal Standard Details (see note 1.4).

1.8 Contractor shall verify location and orientation of all pole and mast arm mounted equipment on all new traffic signal poles and mast arms with the Traffic Signal shop's representative prior to drilling any holes in the poles or mast arms. Failure to get approval may result in replacement of the pole at the contractor's expense.

2. WORK TO BE PERFORMED BY THE CONTRACTOR

The contractor shall supply all materials and perform all work except as indicated in note 3.

3. WORK TO BE PERFORMED BY CITY OF PHOENIX SIGNAL CREWS

Traffic Signal representative shall approve marked layout of ADA ramps, junction boxes and foundation locations prior to excavation, prep contractor furnished controller cabinets and internal equipment (contractor to pick up and install controller cabinet), inspect and approve all traffic signal equipment installed by contractor and terminate, test and activate all field wiring into controller cabinet(s).



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	332	368

AZTEC TYPSA

DR: HSY	DES: HSY	CK: TEE	DATE: 05/2024

PROPOSED FOUNDATION SCHEDULE

NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM 51st AVENUE MON LINE
C	CONT	102 ft. NORTH	48 ft. WEST
P	PSP	112 ft. NORTH	48 ft. WEST
1	P70	70 ft. NORTH	71 ft. WEST
2	LP	87 ft. NORTH	55 ft. WEST
3	P70	87 ft. NORTH	65 ft. EAST
4	LP	74 ft. NORTH	76 ft. EAST
5*	P70	48 ft. SOUTH	73 ft. EAST
6	LP	65 ft. SOUTH	46 ft. WEST
7	P70	64 ft. SOUTH	44 ft. WEST
8	LP	46 ft. SOUTH	67 ft. WEST

* Pole #5 to be field adjusted due to underground utility conflicts.

PROPOSED JUNCTION BOX SCHEDULE

NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM 51st AVENUE MON LINE
9	#7	81 ft. NORTH	67 ft. WEST
10	#7	83 ft. NORTH	76 ft. EAST
11	#7	61 ft. SOUTH	54 ft. EAST
12	#7	58 ft. SOUTH	58 ft. WEST

INSTALL

- (C) 8 Phase Controller Foundation - See Foundation Schedule
- (P) Type B Power Service Pedestal Foundation w/Battery Backup See Foundation Schedule
- (1) thru (8) See Foundation Schedule
- (9) thru (12) See Junction Box Schedule
- (FB) Fiber Optic Junction Box - See Roadway Plans
- (1) 2" Schedule 40 PVC
- (2) 2 1/2" Schedule 40 PVC
- (3) 1" Schedule 40 PVC
- (F) Fiber Optic Conduit - See Roadway Plans

REMOVE

- [1] Traffic Signal Foundation - 8
- [2] Traffic Junction Boxes - 4
- [P] Power Service Pedestal - 1
- [C] Controller - 1
- [SL] Streetlight - 1

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

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Call 811 or click Arizona811.com

TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE: _____

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE: _____

HAPPY VALLEY ROAD AT 51st AVENUE
ST85100437
FOUNDATION

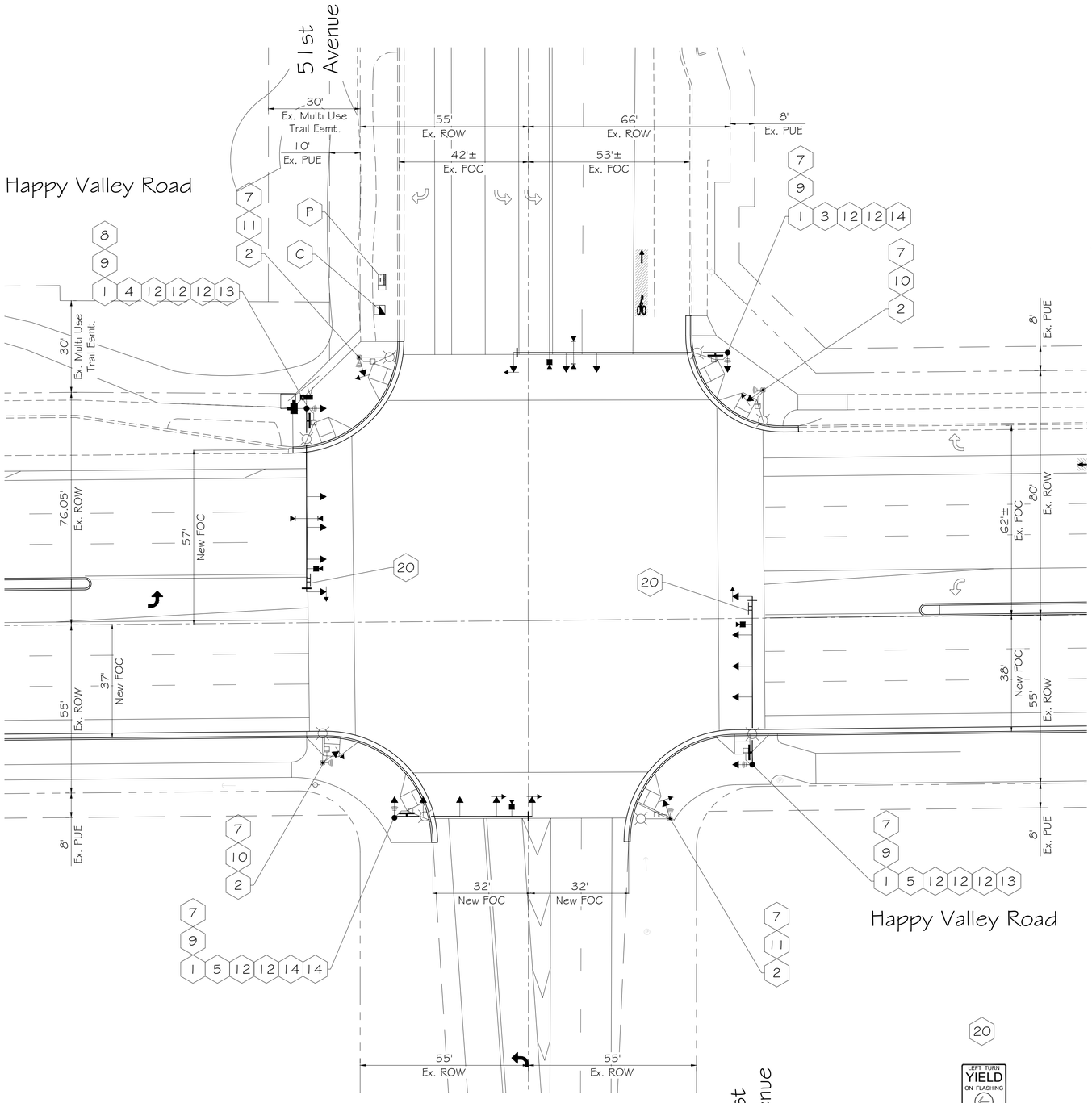
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DR: HSY	DES: HSY	CK: TEE	SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		
SCALE: 1" = 20'		QS. #:	1	4

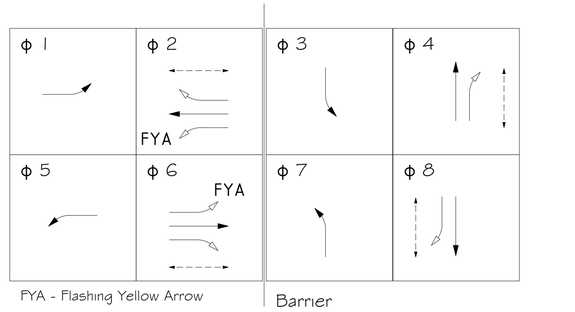
TRAFFIC SIGNAL: HAPPY VALLEY AT 51st AVENUE

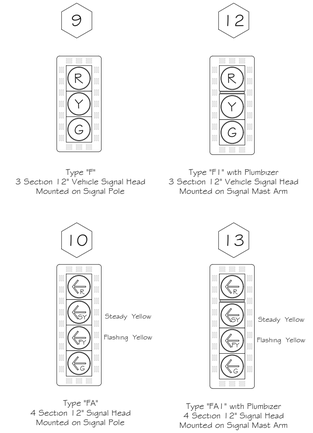
PROJECT #: ST85100437

FILE #: 11586

DATE SAVED: 5/27/24 C:\USERS\HYOUNG\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0522673\ST85100437_51STAVE_11586.DWG







- Video Detection - 4 New
- LED Luminaire - 8 New
- Illuminated Street Sign - 4 New
- Sign at Traffic Signal - 2 New
- Pedestrian Head - 8 New
- APS Pedestrian Push Buttons - 8 New
- Wireless Radio - 1 New
- CCTV Camera - 1 New
- Dual EVP Device - 2 New
- Mast Arm Damper - 4 New

R10-101
Mounted on
Signal Mast Arm

FOR ADDITIONAL SIGNS AND PAINT AND SIGNING INFORMATION
SEE STD DWG # 11589

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	333	368

AZTEC TYPSA

DR: HSY | DES: HSY | CK: TEE | DATE: 05/2024

EQUIPMENT LIST

- C — 8 Phase Controller Cabinet for Signal - 1 New
- P — Type B Power Service Pedestal w/Battery Backup - 1 New
- 1 — Traffic Signal Pole Type P70 - 4 New
- 2 — Traffic Signal Pole Type LP - 4 New
- 3 — P70 70' Signal Mast Arm - 1 New
- 4 — P70 60' Signal Mast Arm - 1 New
- 5 — P70 55' Signal Mast Arm - 1 New
- 6 — P70 45' Signal Mast Arm - 1 New
- 7 — 5' Riser, Single Shoe - 7 New
- 8 — 20' Riser, Single Shoe - 1 New
- 9 — Type F 12" Signal Head - 4 New, Signal Pole Mount
- 10 — Type FA 12" Signal Head, Left Arrows - 2 New, Signal Pole Mount
- 11 — Type R 12" Signal Head, Left Arrows - 2 New, Signal Pole Mount
- 12 — Type F1 12" Signal Head - 10 New, Mast Arm Mount w/Plumbizer
- 13 — Type FA1 12" Signal Head, Left Arrows - 2 New, Mast Arm Mount w/Plumbizer
- 14 — Type R1 12" Signal Head, Left Arrows - 2 New, Mast Arm Mount w/Plumbizer

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

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ARIZONA811 It's free and it's the law!
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APPROVED BY:

TRAFFIC SIGNAL ENGINEER — DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR — DATE:

TRAFFIC SIGNAL PLAN

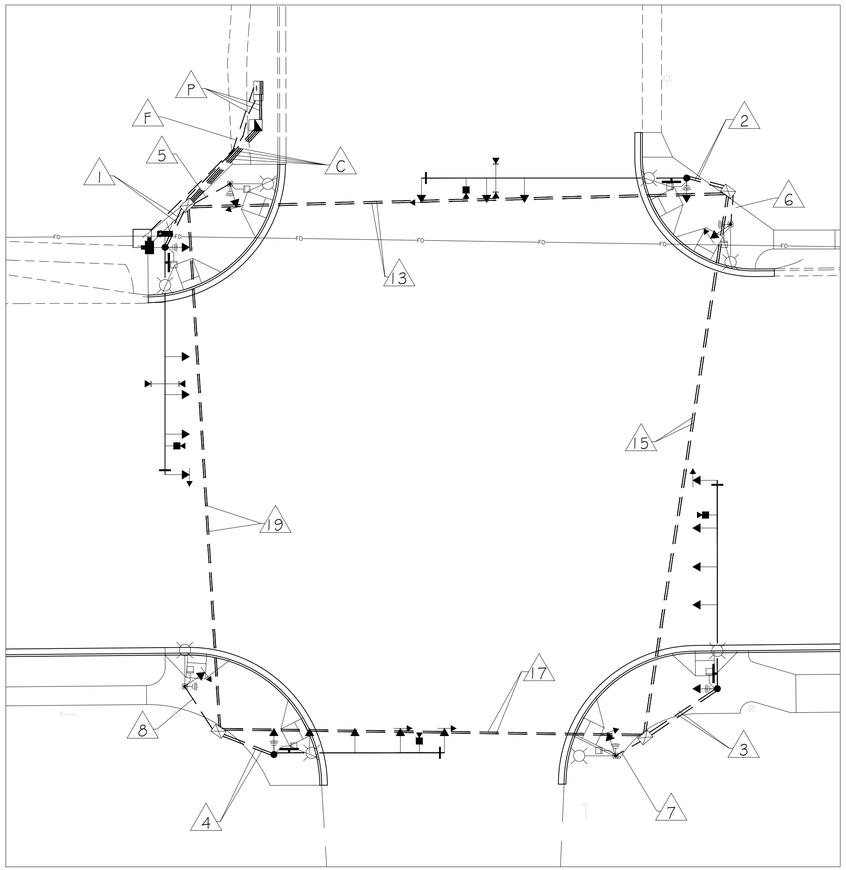
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 51st AVENUE
ST85100437
EQUIPMENT

PROJECT #:			FILE NO: 11586
DR: HSY	DES: HSY	CK: TEE	SHEET NO: 2 / TOTAL SHEETS 4
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	
SCALE: 1" = 20'		QS. #:	

TRAFFIC SIGNAL: HAPPY VALLEY AT 51st AVENUE
PROJECT #: ST85100437
FILE #: 11586

DATE SAVED: 5/27/24 C:\USERS\HYOUNG\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0522673\ST85100437_51STAVE_11586.DWG



Happy Valley Road

51st Avenue

C Controller to #7 Junction Box

CONDUIT 1	CONDUIT 2	CONDUIT 3	CONDUIT 4
#10 Bare Copper #10 AWG White 42C IMSA Cable	#10 Bare Copper Video Detection (4) EVP Detection Cable (4) EVP Confirmation Cable (4) CCTV Cable (1) ITS Cable (1)	#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green	Detectible Mule Tape

P1 Power Service Pedestal to #7 Junction Box

CONDUIT 1
#10 Bare Copper 3C IMSA Cable (LUM) 3C IMSA Cable (SIGN) 3C IMSA Cable (RADIO) 5C IMSA Cable

P2 Power Service Pedestal to Controller

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green	Detectible Mule Tape

1 NWC Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1) 3C IMSA Cable (RADIO) (1)	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (2) EVP Confirmation Cable (2) CCTV Cable (1) ITS Cable (1)

2 NEC Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1)	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (1) EVP Confirmation Cable (1)

3 SEC Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1)	#10 Bare Copper Video Detection Cable (1)

4 SWC Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1)	#10 Bare Copper Video Detection Cable (1)

5 NWC Junction Box to LP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable 3C IMSA Cable (LUM)(1)

6 NEC Junction Box to LP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable 3C IMSA Cable (LUM)(1)

7 SEC Junction Box to LP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable 3C IMSA Cable (LUM)(1)

8 SWC Junction Box to LP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable 3C IMSA Cable (LUM)(1)

13 NWC Junction Box to NEC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (2) EVP Confirmation Cable (2)

15 NEC Junction Box to SEC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Video Detection Cable (1)

17 SEC Junction Box to SWC Junction Box

CONDUIT 1	CONDUIT 2
Detectible Mule Tape	Detectible Mule Tape

19 SWC Junction Box to NWC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Video Detection Cable (1)

F Fiber Junction Box to Controller

CONDUIT 1
Detectible Mule Tape

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 49930 TRACY ELIZABETH EBERLEIN Date Signed 05/28/24 ARIZONA

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	334	368

AZTEC TYPSA

DR: HSY	DES: HSY	CK: TEE	DATE: 05/2024

TRAFFIC SIGNAL HAPPY VALLEY AT 51st AVENUE

PROJECT #: ST85100437

FILE #: 11586

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

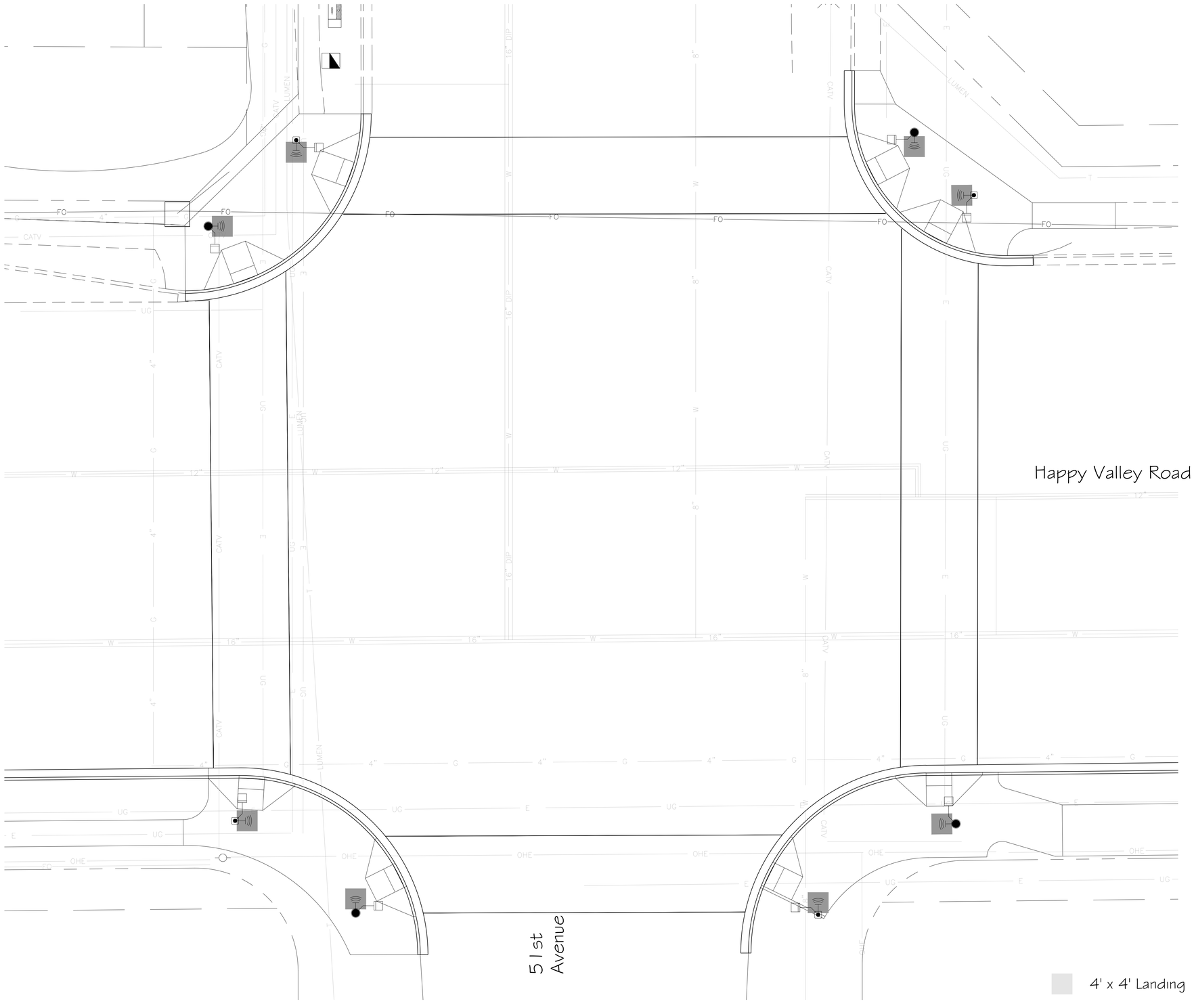
TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 51st AVENUE
ST85100437
WIRING

PROJECT #:			FILE NO: 11586
DR: HSY	DES: HSY	CK: TEE	SHEET NO: 3 / TOTAL SHEETS: 4
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	
SCALE: 1" = 20'		QS. #:	

DATE SAVED: 5/27/24 C:\USERS\HYOUNG\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0522673\ST85100437_51STAVE_11586.DWG



REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 49930 TRACY ELIZABETH EBERLEIN Date Signed 05/27/2024 ARIZONA

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	335	368

AZTEC TYPSA

DR: HSY	DES: HSY	CK: TEE	DATE: 05/2024

N

RAMP DETAILS: HAPPY VALLEY AT 51st AVENUE

FOR INFORMATION ONLY
SEE ROADWAY SHEETS FOR RAMP DESIGN
SEE FOUNDATION SHEET FOR POLE LOCATIONS AND TYPE

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

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RAMP DETAILS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 51st AVENUE
ST85100437
RAMP DETAILS

APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE: _____

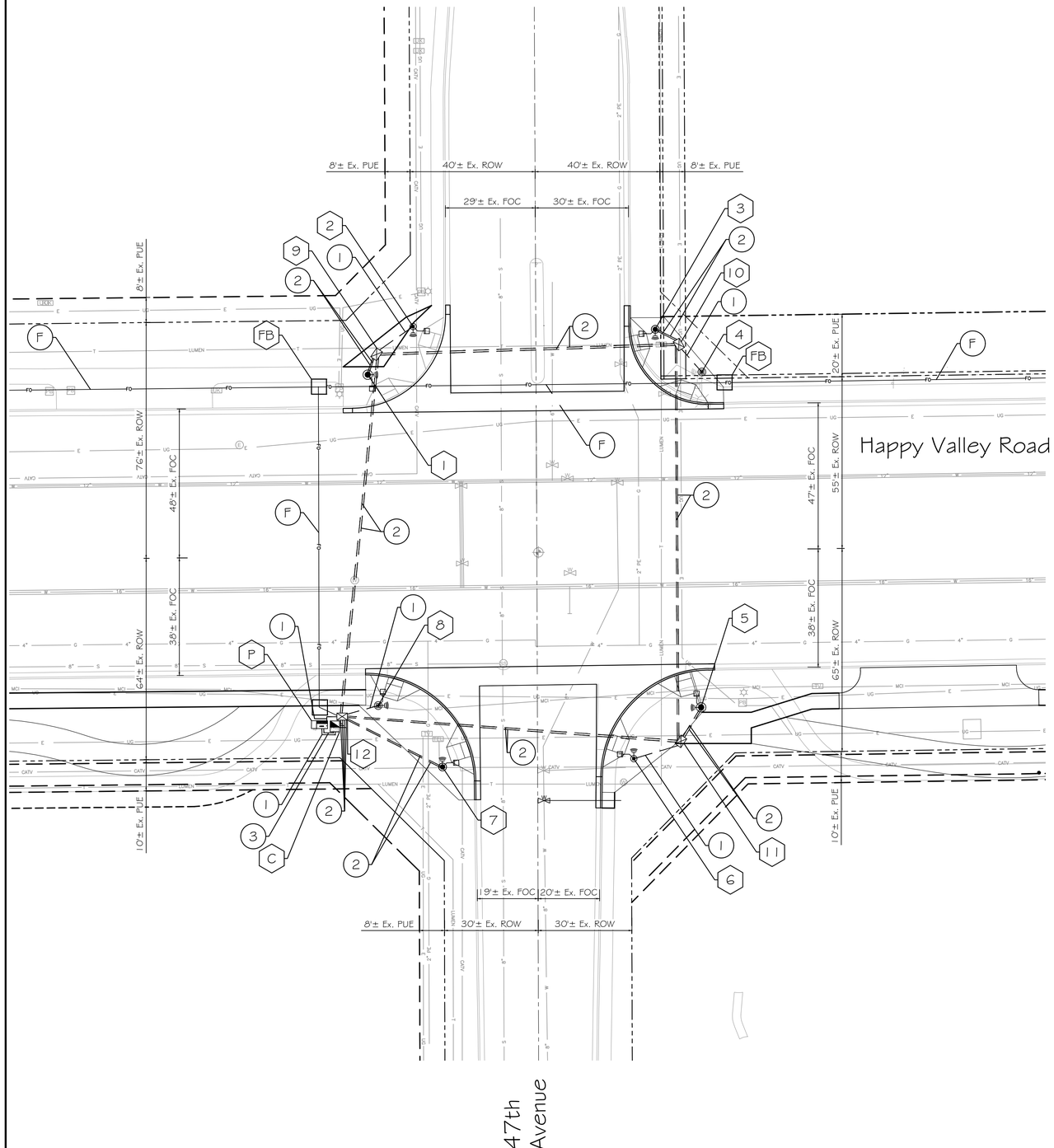
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PROJECT #:			FILE NO: 11586	
DR: HSY	DES: HSY	CK: TEE	SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		
SCALE: 1" = 20'		QS. #:	4	4

PROJECT #: ST85100437

FILE #: 11586

DATE SAVED: 5/27/24 C:\USERS\HYOUNG\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0522673\ST85100437_51STAVE_11586.DWG



1. GENERAL NOTES: Contractor as referenced herein is the Developer Contractor.

1.1 The contractor shall notify the City of Phoenix Traffic Signal Shop (602-262-6733) a minimum of fourteen (14) calendar days prior to beginning any traffic signal work. Submittals of all equipment shall be furnished to the Signal Shop and approved prior to ordering any traffic signal equipment. The contractor shall verify they have the current approved plan set prior to starting and ordering any equipment.

1.2 The contractor shall layout all ADA ramps, junction boxes and foundation locations for approval by a traffic signal representative. Contractor must have a current visible Bluestake showing all utilities. All ADA ramps shall be laid out in white marking paint to determine best traffic signal pole locations.

1.3 Traffic Signal Plan approval is valid for 365 calendar days from date sealed. If signal construction has not begun prior to the 365 days elapsing, the signal plans must be re-submitted for approval or an extension granted by the Deputy Director of Traffic Services or an authorized representative to ensure that existing traffic signal equipment locations and standard detail references are current.

1.4 All traffic signal equipment and materials shall follow the current City of Phoenix Traffic Signal Standard Details and Specifications. (www.phoenix.gov/streets/reference-material) The contactor shall have a copy of these standards along with a complete set of approved plans on site at all times during signal and lighting systems construction. The contractor shall have a competent supervisor capable of reading and understanding plans and specifications and thoroughly experienced in the construction of traffic signals. The contractor's supervisor or lead shall possess a current International Municipal Signal Association (IMSA) Level II Traffic Signal Electrician Certification and must be on site during any traffic signal construction activities. It will be the responsibility of the contractor to supply verification of certification. If a jobsite is inspected and a certified Electrician is not on site, a stop work order will be issued.

1.5 The contractor is responsible for the construction of the project; its planning, safety, quality and completion. The City of Phoenix inspection team would make the determination if the work performed meets the criteria and if not, may request that the work be redone at the contractor's expense.

1.6 Foundation elevations must be within 1/4" of finished sidewalk grade.

1.7 A minimum of a four (4) foot clear path is required around all traffic signal poles. A four by four (4x4) flat landing centered on the pedestrian push button must be maintained as provided on the latest Traffic Signal Standard Details (see note 1.4).

1.8 Contractor shall verify location and orientation of all pole and mast arm mounted equipment on all new traffic signal poles and mast arms with the Traffic Signal shop's representative prior to drilling any holes in the poles or mast arms. Failure to get approval may result in replacement of the pole at the contractor's expense.

2. WORK TO BE PERFORMED BY THE CONTRACTOR

The contractor shall supply all materials and perform all work except as indicated in note 3.

3. WORK TO BE PERFORMED BY CITY OF PHOENIX SIGNAL CREWS

Traffic Signal representative shall approve marked layout of ADA ramps, junction boxes and foundation locations prior to excavation, prep contractor furnished controller cabinets and internal equipment (contractor to pick up and install controller cabinet), inspect and approve all traffic signal equipment installed by contractor and terminate, test and activate all field wiring into controller cabinet(s).

The City of Phoenix traffic signal crews will provide and install all above ground traffic signal equipment including:

- All controllers
- Power service pedestal mounting ring
- Type "B" power service pedestal w/ battery backup
- Poles, mast arms, risers and luminaire mast arms not identified in note 2.1
- All pole grouting
- All signal heads
- All pedestrian heads
- All accessible pedestrian signal (APS) push buttons
- All LED luminaires
- All illuminated street signs
- All signal wiring
- All loop and non-invasive detectors
- All cameras and all radios

Registered Professional Engineer (Civil) CERTIFICATE NO. 39284 TRENT W. THATCHER Date Signed 05/20/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	336	368

WILSON & COMPANY 410 North 44th Street Suite 460 Phoenix, Arizona 85008

DR: CMW	DES: CMW	CK: TWT	DATE: 05/24

PROPOSED FOUNDATION SCHEDULE

NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM 47th AVENUE MON LINE
C	CONT	54 ft. SOUTH	65 ft. WEST
P	PSP	54 ft. SOUTH	69 ft. WEST
1	P70	58 ft. NORTH	54 ft. WEST
2	AP	73 ft. NORTH	39 ft. WEST
3	P45	71 ft. NORTH	38 ft. EAST
4	LP	57 ft. NORTH	53 ft. EAST
5	P70	49 ft. SOUTH	46 ft. EAST
6	AP	66 ft. SOUTH	31 ft. EAST
7	LP	68 ft. SOUTH	30 ft. WEST
8	P45	48 ft. SOUTH	51 ft. WEST

PROPOSED JUNCTION BOX SCHEDULE

NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM 47th AVENUE MON LINE
9	#7	64 ft. NORTH	51 ft. WEST
10	#7	66 ft. NORTH	46 ft. EAST
11	#7	61 ft. SOUTH	46 ft. EAST
12	#7	51 ft. SOUTH	63 ft. WEST

INSTALL

(1) thru (8) See Foundation Schedule

(FB) Fiber Optic Junction Box - See Roadway Plans

(C) 8 Phase Controller Foundation - See Foundation Schedule

(P) Type B Power Service Pedestal Foundation w/Battery Backup - See Foundation Schedule

(1) 2" Schedule 40 PVC

(2) 2 1/2" Schedule 40 PVC

(3) 1" Schedule 40 PVC

(F) Fiber Optic Conduit - See Roadway Plans

(9) thru (12) See Junction Box Schedule

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APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 47th AVENUE
ST85100437

FOUNDATION

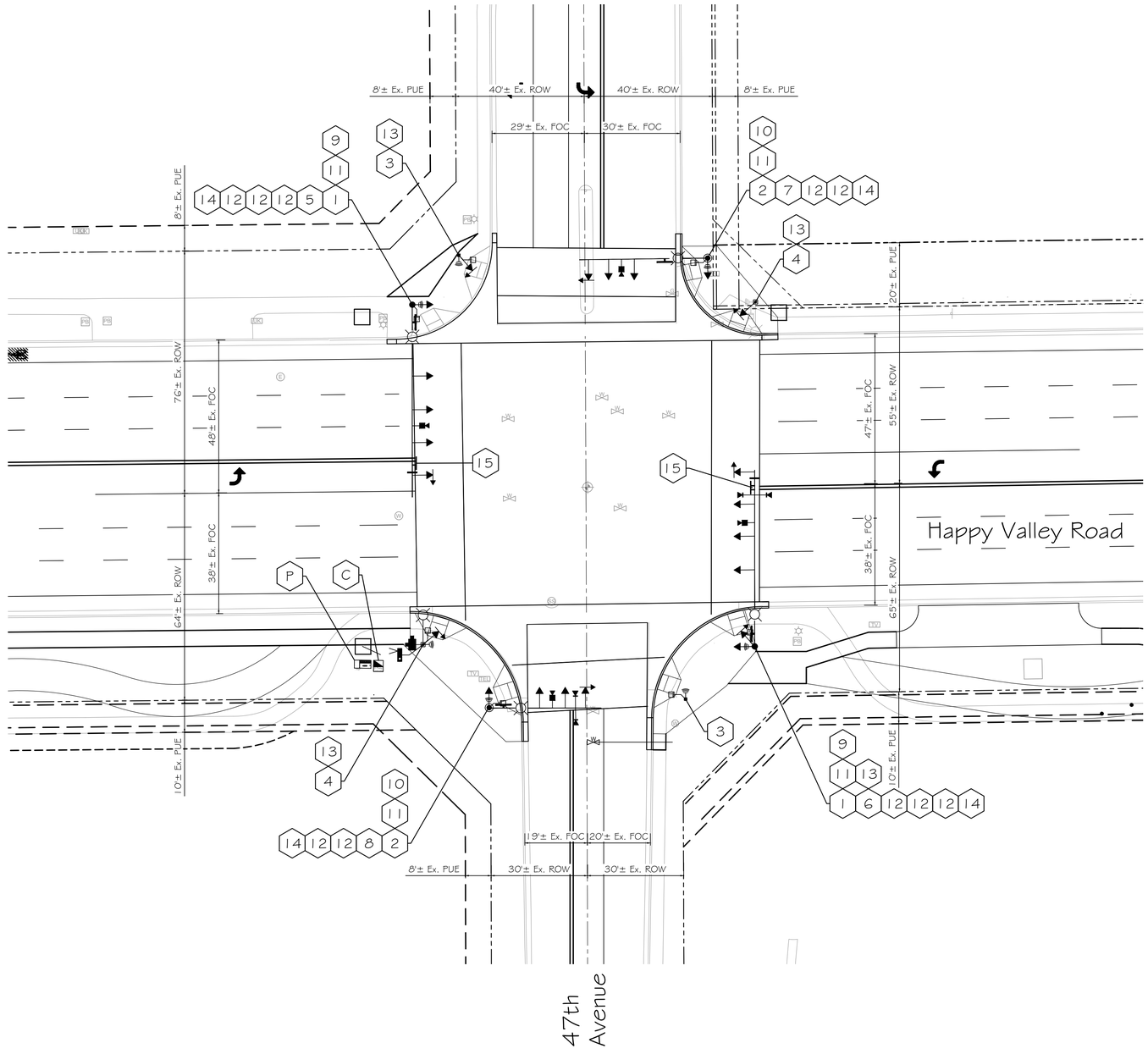
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DR: CMW	DES: CMW	CK: TWT	SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		
SCALE: 1" = 20'		QS. #:	1	4

TRAFFIC SIGNAL HAPPY VALLEY AT 47th AVENUE

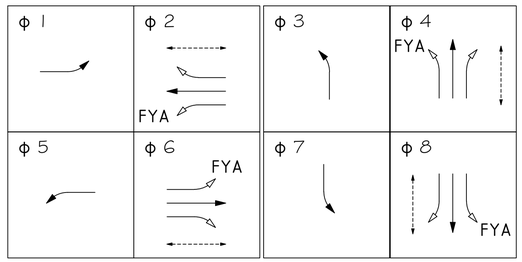
PROJECT #: ST85100437

FILE #: 11586

DATE SAVED: 5/9/24 C:\USERS\CMWASCOVICH\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0556964\ST85100437_47THAVE.DWG



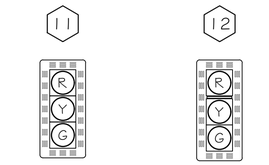
FOR ADDITIONAL SIGNS AND PAINT AND SIGNING INFORMATION
SEE STD DWG # 11589



FYA - Flashing Yellow Arrow

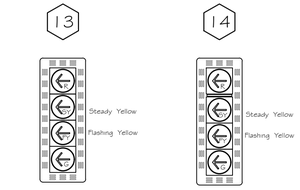
Barrier

Pedestrian Phase — Protected Phase — Permitted Phase



Type "F"
3 Section 12" Vehicle Signal Head
Mounted on Signal Pole

Type "F1" with Plumbizer
3 Section 12" Vehicle Signal Head
Mounted on Signal Mast Arm



Type "FA"
4 Section 12" Signal Head
Mounted on Signal Pole

Type "FA1" with Plumbizer
4 Section 12" Signal Head
Mounted on Signal Mast Arm

- Video Detection - 4 New
- LED Luminaire - 6 New
- Illuminated Street Sign - 4 New
- Sign at Traffic Signal - 2 New
- Pedestrian Head - 8 New
- APS Pedestrian Push Buttons - 8 New
- Wireless Radio - 1 New
- CCTV Camera - 1 New
- Dual EVP Device - 2 New
- Mast Arm Damper - 2 New

EQUIPMENT LIST

- C — 8 Phase Controller Cabinet for Signal - 1 New
- P — Type B Power Service Pedestal w/Battery Backup - 1 New
- 1 — Traffic Signal Pole Type P70 - 2 New
- 2 — Traffic Signal Pole Type P45 - 2 New
- 3 — Traffic Signal Pole Type AP - 2 New
- 4 — Traffic Signal Pole Type LP - 2 New
- 5 — P70 60' Signal Mast Arm - 1 New
- 6 — P70 55' Signal Mast Arm - 1 New
- 7 — P45 40' Signal Mast Arm - 1 New
- 8 — P45 35' Signal Mast Arm - 1 New
- 9 — 5' Riser, Single Shoe - 2 New
- 10 — 20' Riser, Single Shoe - 2 New
- 11 — Type F 12" Signal Head - 4 New
  Signal Pole Mount
- 12 — Type F1 12" Signal Head - 10 New
  Mast Arm Mount w/Plumbizer
- 13 — Type FA 12" Signal Head, Left Arrows - 4
  New Signal Pole Mount
- 14 — Type FA1 12" Signal Head, Left Arrows - 4
  New Mast Arm Mount w/Plumbizer

15



R10-101
Flashing Yellow

Registered Professional Engineer (Civil) CERTIFICATE NO. 39284 TRENT W. THATCHER State Expires 09/30/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	337	368

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: CMW	DES: CMW	CK: TWT	DATE: 05/24

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ARIZONA811
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TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 47th AVENUE
ST85100437

EQUIPMENT

APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

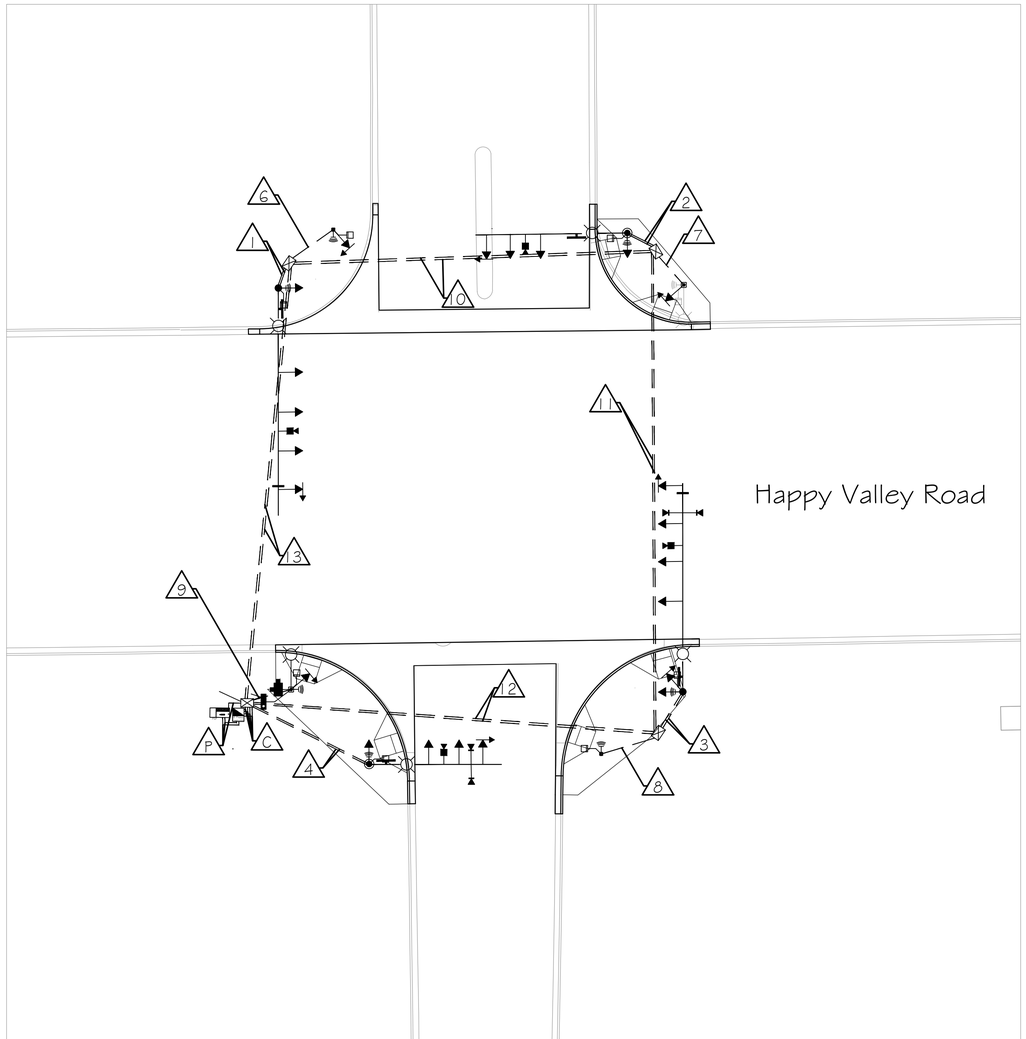
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DR: CMW	DES: CMW	CK: TWT	SHEET NO: 2
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	TOTAL SHEETS 4
SCALE: 1" = 20'		QS. #:	

TRAFFIC SIGNAL
HAPPY VALLEY AT 47th AVENUE

PROJECT #: ST85100437

FILE #: 11586

DATE SAVED: 5/9/24 C:\USERS\CMWASCOVICH\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0556964\ST85100437_47THAVE.DWG



C Controller to #7 Junction Box

CONDUIT 1	CONDUIT 2	CONDUIT 3	CONDUIT 4
#10 Bare Copper #10 AWG White 42C IMSA Cable	#10 Bare Copper Detection Camera Cable (4) EVP Detection Cable (4) EVP Confirmation Cable (4) CCTV Cable (1) CAT 5e Cable (1)	#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green	Detectible Mule Tape

P1 Power Service Pedestal to #7 Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green 3C IMSA Cable (RADIO) 5C IMSA Cable	Detectible Mule Tape

P2 Power Service Pedestal to Controller

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green	Detectible Mule Tape

F SWC Junction Box to Fiber Optic Junction Box

CONDUIT 1
Detectible Mule Tape

1 NWC Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 3C IMSA Cable (Luminaire) 20C IMSA Cable	#10 Bare Copper EVP Detection Cable (1) EVP Confirmation Cable (1) Detection Camera Cable (1)

2 NEC Junction Box to P45 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 3C IMSA Cable (Luminaire) 20C IMSA Cable	#10 Bare Copper EVP Detection Cable (1) EVP Confirmation Cable (1) Detection Camera Cable (1)

3 SEC Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 3C IMSA Cable (Luminaire) 20C IMSA Cable	#10 Bare Copper EVP Detection Cable (1) EVP Confirmation Cable (1) Detection Camera Cable (1)

4 SWC Junction Box to P45 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 3C IMSA Cable (Luminaire) 20C IMSA Cable	#10 Bare Copper EVP Detection Cable (1) EVP Confirmation Cable (1) Detection Camera Cable (1)

6 NWC Junction Box to AP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 20C IMSA Cable

7 NEC Junction Box to AP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 20C IMSA Cable

8 SEC Junction Box to AP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 20C IMSA Cable

9 SWC Junction Box to AP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 20C IMSA Cable

10 NWC Junction Box to NEC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Detection Camera Cable (2) EVP Detection Cable (2) EVP Confirmation Cable (2)

11 NEC Junction Box to SEC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Detection Camera Cable (2) EVP Detection Cable (2) EVP Confirmation Cable (2)

12 SEC Junction Box to SWC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Detection Camera Cable (2) EVP Detection Cable (2) EVP Confirmation Cable (2)

13 NWC Junction Box to SWC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Detection Camera Cable (2) EVP Detection Cable (2) EVP Confirmation Cable (2)

Registered Professional Engineer (Civil) CERTIFICATE NO. 39284 TRENT W. THATCHER State Expires 06/30/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	338	368

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: CMW	DES: CMW	CK: TWT	DATE: 05/24

TRAFFIC SIGNAL HAPPY VALLEY AT 47th AVENUE

PROJECT #: ST85100437

FILE #: 11586

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TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 47th AVENUE
ST85100437

WIRING

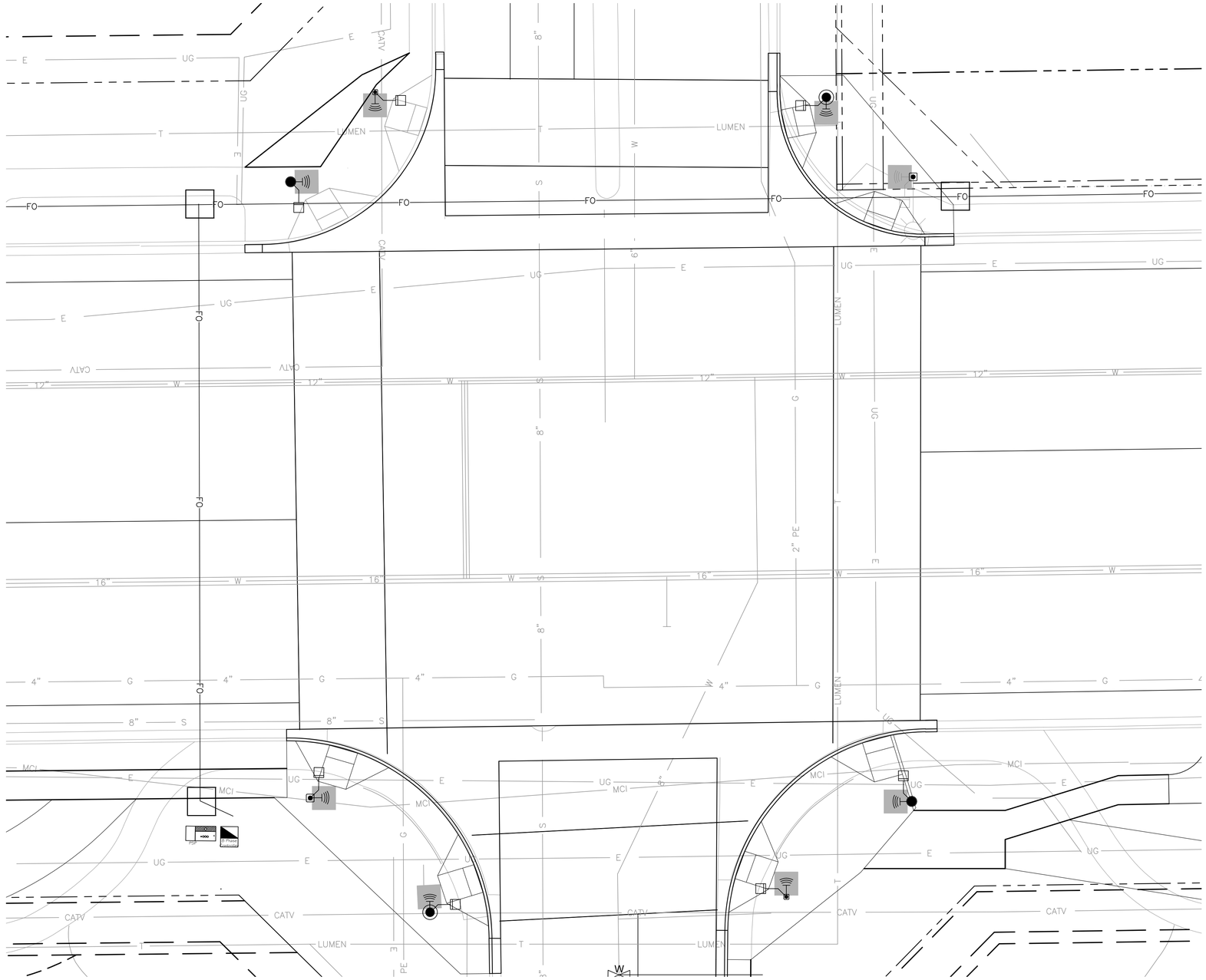
APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

PROJECT #:			FILE NO: 11586
DR: CMW	DES: CMW	CK: TWT	SHEET NO: 3 / TOTAL SHEETS 4
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	
SCALE: 1" = 20'		QS. #:	

DATE SAVED: 5/9/24 C:\USERS\CMWASCOVICH\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D055G9G4\ST85100437_47THAVE.DWG



Happy Valley Road

47th Avenue

N

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	339	368

Registered Professional Engineer (Civil) CERTIFICATE NO. 39284 TRENT W. THATCHER Date Signed 05/30/2024

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: CMW	DES: CMW	CK: TWT	DATE: 05/24

FOR INFORMATION ONLY
SEE PAVING SHEETS FOR RAMP DESIGN
SEE FOUNDATION SHEET FOR POLE LOCATIONS AND TYPE

TRAFFIC SIGNAL
HAPPY VALLEY AT 47th AVENUE

PROJECT #: ST85100437

FILE #: 11586

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ARIZONA811
Call 811 or click Arizona811.com

TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 47th AVENUE
ST85100437
RAMP DETAILS

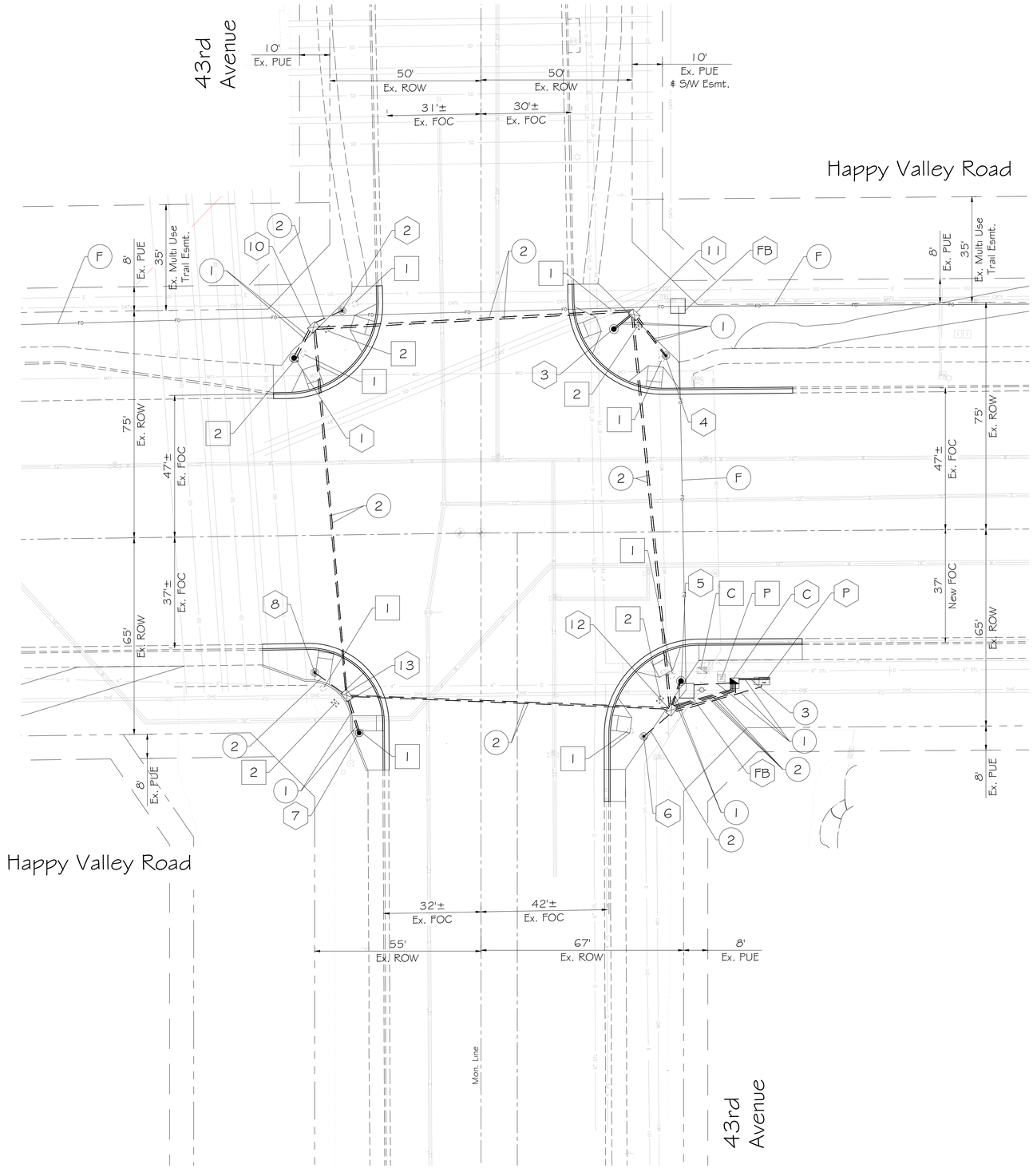
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TRAFFIC SIGNAL ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

PROJECT #:			FILE NO: 11586	
DR: CMW	DES: CMW	CK: TWT	SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		
SCALE: 1" = 10'		QS. #:	4	4

DATE SAVED: 5/9/24 C:\USERS\CMWASCOVICH\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0556964\ST85100437_47THAVE.DWG



1. GENERAL NOTES:

1.1 The contractor shall notify the City of Phoenix Traffic Signal Shop (602-262-6733) a minimum of fourteen (14) calendar days prior to beginning any traffic signal work. Submittals of all equipment shall be furnished to the Signal Shop and approved prior to ordering any traffic signal equipment. The contractor shall verify they have the current approved plan set prior to starting and ordering any equipment.

1.2 The contractor shall layout all ADA ramps, junction boxes and foundation locations for approval by a traffic signal representative. Contractor must have a current visible Bluestake showing all utilities. All ADA ramps shall be laid out in white marking paint to determine best traffic signal pole locations.

1.3 Traffic Signal Plan approval is valid for 365 calendar days from date sealed. If signal construction has not begun prior to the 365 days elapsing, the signal plans must be re-submitted for approval or an extension granted by the Deputy Director of Traffic Services or an authorized representative to ensure that existing traffic signal equipment locations and standard detail references are current.

1.4 All traffic signal equipment and materials shall follow the current City of Phoenix Traffic Signal Standard Details and Specifications (www.phoenix.gov/streets/reference-material). The contractor shall have a copy of these standards along with a complete set of approved plans on site at all times during signal and lighting systems construction. The contractor shall have a competent supervisor capable of reading and understanding plans and specifications and thoroughly experienced in the construction of traffic signals. The contractor's supervisor or lead shall possess a current International Municipal Signal Association (IMSA) Level II Traffic Signal Electrician Certification and must be on site during any traffic signal construction activities. It will be the responsibility of the contractor to supply verification of certification. If a jobsite is inspected and a certified Electrician is not on site, a stop work order will be issued.

1.5 The contractor is responsible for the construction of the project; its planning, safety, quality and completion. The City of Phoenix inspection team would make the determination if the work performed meets the criteria and if not, may request that the work be redone at the contractor's expense.

1.6 Foundation elevations must be within 1/4" of finished sidewalk grade.

1.7 A minimum of a four (4) foot clear path is required around all traffic signal poles. A four by four (4x4) flat landing centered on the pedestrian push button must be maintained as provided on the Traffic Signal Standard Details (see note 1.4).

1.8 Contractor shall verify location and orientation of all pole and mast arm mounted equipment on all new traffic signal poles and mast arms with the Traffic Signal shop's representative prior to drilling any holes in the poles or mast arms. Failure to get approval may result in replacement of the pole at the contractor's expense.

2. WORK TO BE PERFORMED BY THE CONTRACTOR

The contractor shall supply all materials and perform all work except as indicated in note 3.

3. WORK TO BE PERFORMED BY CITY OF PHOENIX SIGNAL CREWS

Traffic Signal representative shall approve marked layout of ADA ramps, junction boxes and foundation locations prior to excavation, prep contractor furnished controller cabinets and internal equipment (contractor to pick up and install controller cabinet), inspect and approve all traffic signal equipment installed by contractor and terminate, test and activate all field wiring into controller cabinet(s).

49930 TRACY ELIZABETH EBERLEIN — REGISTERED PROFESSIONAL ENGINEER — CERTIFICATE NO. — DO NOT SIGN UNLESS DATED — ARIZONA

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	340	368

AZTEC TYPSA

DR: HSY | DES: HSY | CK: TEE | DATE: 05/2024

PROPOSED FOUNDATION SCHEDULE

NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM 43rd AVENUE MON LINE
C	CONT	50 ft. SOUTH	84 ft. EAST
P	PSP	50 ft. SOUTH	94 ft. EAST
1	P70	59 ft. NORTH	62 ft. WEST
2	LP	74 ft. NORTH	46 ft. WEST
3	P70	67 ft. NORTH	44 ft. EAST
4	LP	58 ft. NORTH	61 ft. EAST
5	P70	49 ft. SOUTH	66 ft. EAST
6	LP	67 ft. SOUTH	51 ft. EAST
7	P45	66 ft. SOUTH	40 ft. WEST
8	LP	45 ft. SOUTH	55 ft. WEST

PROPOSED JUNCTION BOX SCHEDULE

NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM 43rd AVENUE MON LINE
10	#7	69 ft. NORTH	55 ft. WEST
11	#7	72 ft. NORTH	51 ft. EAST
12	#7	59 ft. SOUTH	63 ft. EAST
13	#7	53 ft. SOUTH	46 ft. WEST

INSTALL

- (C) 8 Phase Controller Foundation - See Foundation Schedule
- (P) Type B Power Service Pedestal Foundation w/Battery Backup See Foundation Schedule
- (1) thru (8) See Foundation Schedule
- (10) thru (13) See Junction Box Schedule
- (FB) Fiber Optic Junction Box - See Roadway Plans
- (1) 2" Schedule 40 PVC
- (2) 2 1/2" Schedule 40 PVC
- (3) 1" Schedule 40 PVC
- (F) Fiber Optic Conduit - See Roadway Plans

REMOVE

- (1) Traffic Signal Foundation - 8
- (2) Traffic Junction Boxes - 5
- (P) Power Service Pedestal - 1
- (C) Controller - 1

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

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TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 43rd AVENUE
ST85100437
FOUNDATION

APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE: _____

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE: _____

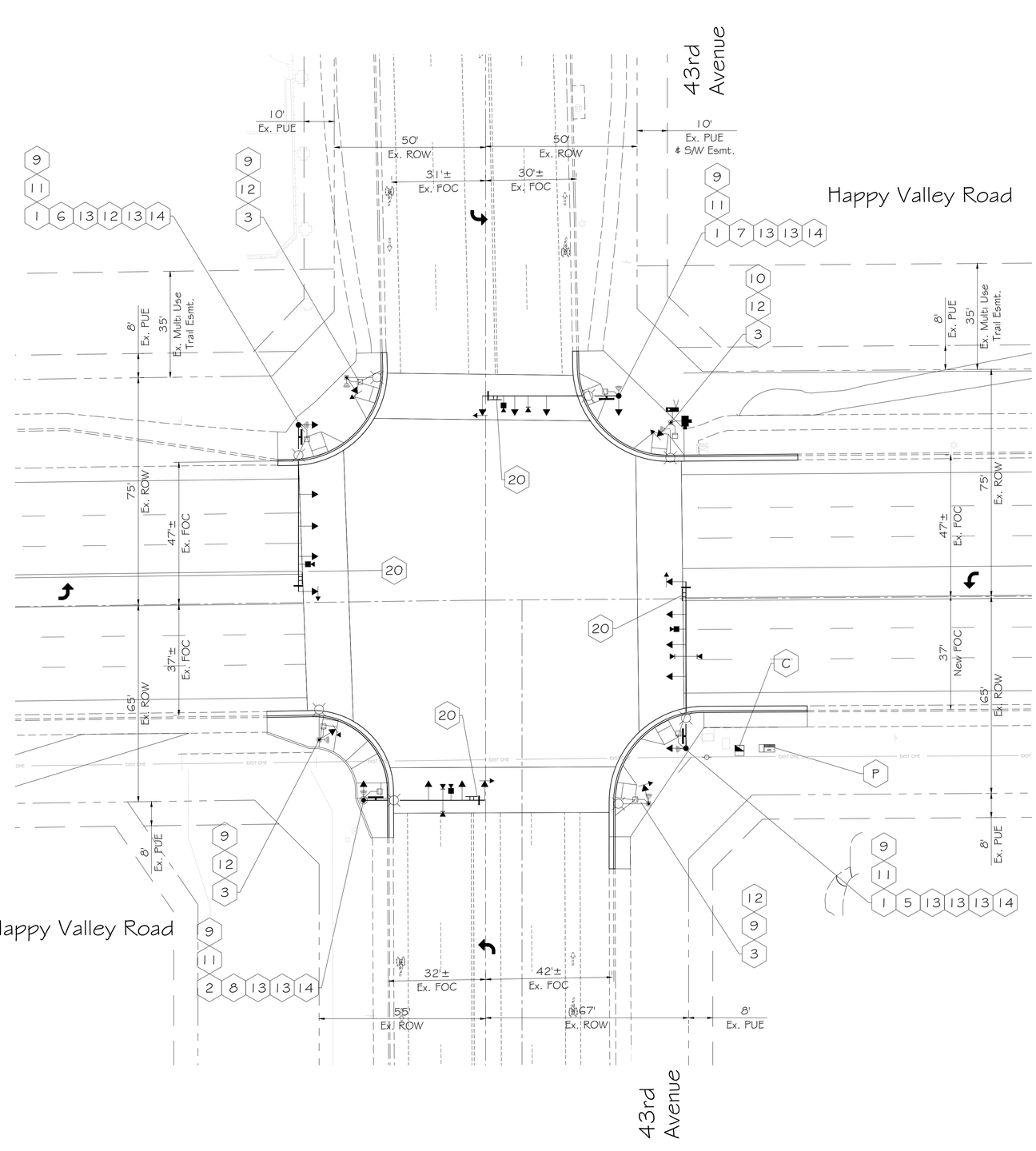
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DR: HSY	DES: HSY	CK: TEE	SHEET NO: 1 / TOTAL SHEETS: 4
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	
SCALE: 1" = 20'		QS. #:	

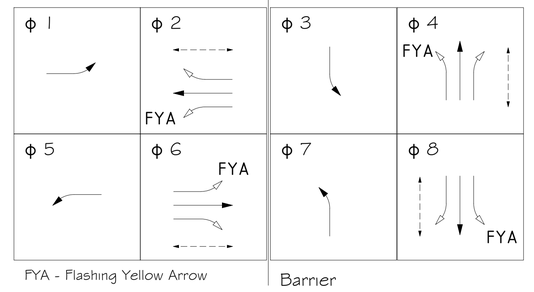
TRAFFIC SIGNAL: HAPPY VALLEY AT 43rd AVENUE

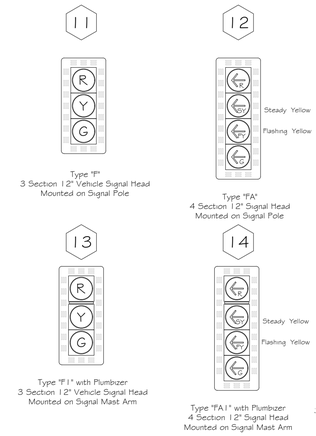
PROJECT #: ST85100437

FILE #: 11587

DATE SAVED: 5/28/24 C:\USERS\HYOUNG\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0522673\ST85100437_43RDAVE_11587.DWG







- Video Detection - 4 New
- LED Luminaire - 8 New
- Illuminated Street Sign - 4 New
- Sign at Traffic Signal - 4 New
- Pedestrian Head - 8 New
- APS Pedestrian Push Buttons - 8 New
- Wireless Radio - 1 New
- CCTV Camera - 1 New
- Dual EVP Device - 2 New
- Mast Arm Damper - 4 New

20

LEFT TURN YIELD ON FLASHING

R10-10I Mounted on Signal Mast Arm

FOR ADDITIONAL SIGNS AND PAINT AND SIGNING INFORMATION SEE STD DWG # 11589

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	341	368

AZTEC TYPSA

DR: HSY	DES: HSY	CK: TEE	DATE: 05/2024

EQUIPMENT LIST

- C 8 Phase Controller Cabinet for Signal - 1 New
- P Type B Power Service Pedestal w/Battery Backup - 1 New
- 1 Traffic Signal Pole Type P70 - 3 New
- 2 Traffic Signal Pole Type P45 - 1 New
- 3 Traffic Signal Pole Type LP - 4 New
- 5 P70 55' Signal Mast Arm - 1 New
- 6 P70 50' Signal Mast Arm - 1 New
- 7 P70 45' Signal Mast Arm - 1 New
- 8 P45 40' Signal Mast Arm - 1 New
- 9 5' Riser, Single Shoe - 7 New
- 10 20' Riser, Single Shoe - 1 New
- 11 Type F 12" Signal Head - 4 New Signal Pole Mount
- 12 Type FA 12" Signal Head, Left Arrows - 4 New Signal Pole Mount
- 13 Type F1 12" Signal Head - 10 New Mast Arm Mount w/Plumbizer
- 14 Type FA1 12" Signal Head, Left Arrows - 4 New Mast Arm Mount w/Plumbizer

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

Contact Arizona 811 at least two full working days before you begin excavation. ARIZONA811 Call 811 or click Arizona811.com

APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

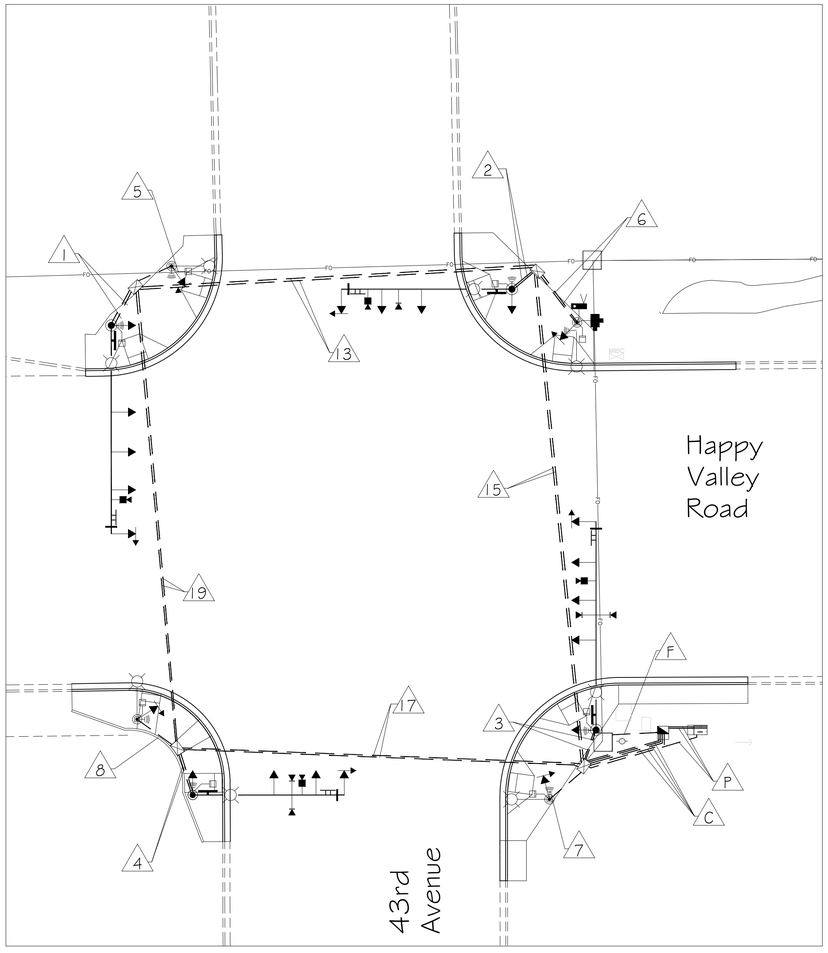
HAPPY VALLEY ROAD AT 43rd AVENUE
ST85100437
EQUIPMENT

PROJECT #:			FILE NO: 11587
DR: HSY	DES: HSY	CK: TEE	SHEET NO: 2 / TOTAL SHEETS 4
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	
SCALE: 1" = 20'		QS. #:	

TRAFFIC SIGNAL: HAPPY VALLEY AT 43rd AVENUE

PROJECT #: ST85100437

FILE #: 11587



C — Controller to #7 Junction Box

CONDUIT 1	CONDUIT 2	CONDUIT 3	CONDUIT 4
#10 Bare Copper #10 AWG White 42C IMSA Cable	#10 Bare Copper Video Detection (4) EVP Detection Cable (4) EVP Confirmation Cable (4) CCTV Cable (1) ITS Cable (1)	#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green	Detectible Mule Tape

P1 — Power Service Pedestal to #7 Junction Box

CONDUIT 1
#10 Bare Copper 3C IMSA Cable (LUM) 3C IMSA Cable (SIGN) 3C IMSA Cable (RADIO) 5C IMSA Cable

P2 — Power Service Pedestal to Controller

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green	Detectible Mule Tape

1 — NWC Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1)	#10 Bare Copper Video Detection Cable (1)

2 — NEC Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1)	#10 Bare Copper Video Detection Cable (1)

3 — SEC Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1)	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (2) EVP Confirmation Cable (2)

4 — SWC Junction Box to P45 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1)	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (2) EVP Confirmation Cable (2)

5 — NWC Junction Box to LP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable 3C IMSA Cable (LUM)(1)

6 — NEC Junction Box to LP Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable 3C IMSA Cable (LUM)(1) 3C IMSA Cable (RADIO) (1)	#10 Bare Copper CCTV Cable (1) ITS Cable (1)

7 — SEC Junction Box to LP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable 3C IMSA Cable (LUM)(1)

8 — SWC Junction Box to LP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable 3C IMSA Cable (LUM)(1)

13 — NWC Junction Box to NEC Junction Box

CONDUIT 1	CONDUIT 2
Detectible Mule Tape	Detectible Mule Tape

15 — NEC Junction Box to SEC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable 3C IMSA Cable (RADIO) (1)	#10 Bare Copper Video Detection Cable (2) CCTV Cable (1) ITS Cable (1)

17 — SEC Junction Box to SWC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (2) EVP Confirmation Cable (2)

19 — SWC Junction Box to NWC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Video Detection Cable (1)

F — Fiber Junction Box to Controller

CONDUIT 1
Detectible Mule Tape

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 49930 TRACY ELIZABETH EBERLEIN Date Signed 05/28/2024 ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	342	368

AZTEC TYPSA

DR: HSY | DES: HSY | CK: TEE | DATE: 05/2024

TRAFFIC SIGNAL AT HAPPY VALLEY AT 43rd AVENUE

PROJECT #: ST85100437

FILE #: 11587

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 43rd AVENUE
ST85100437
WIRING

APPROVED BY:

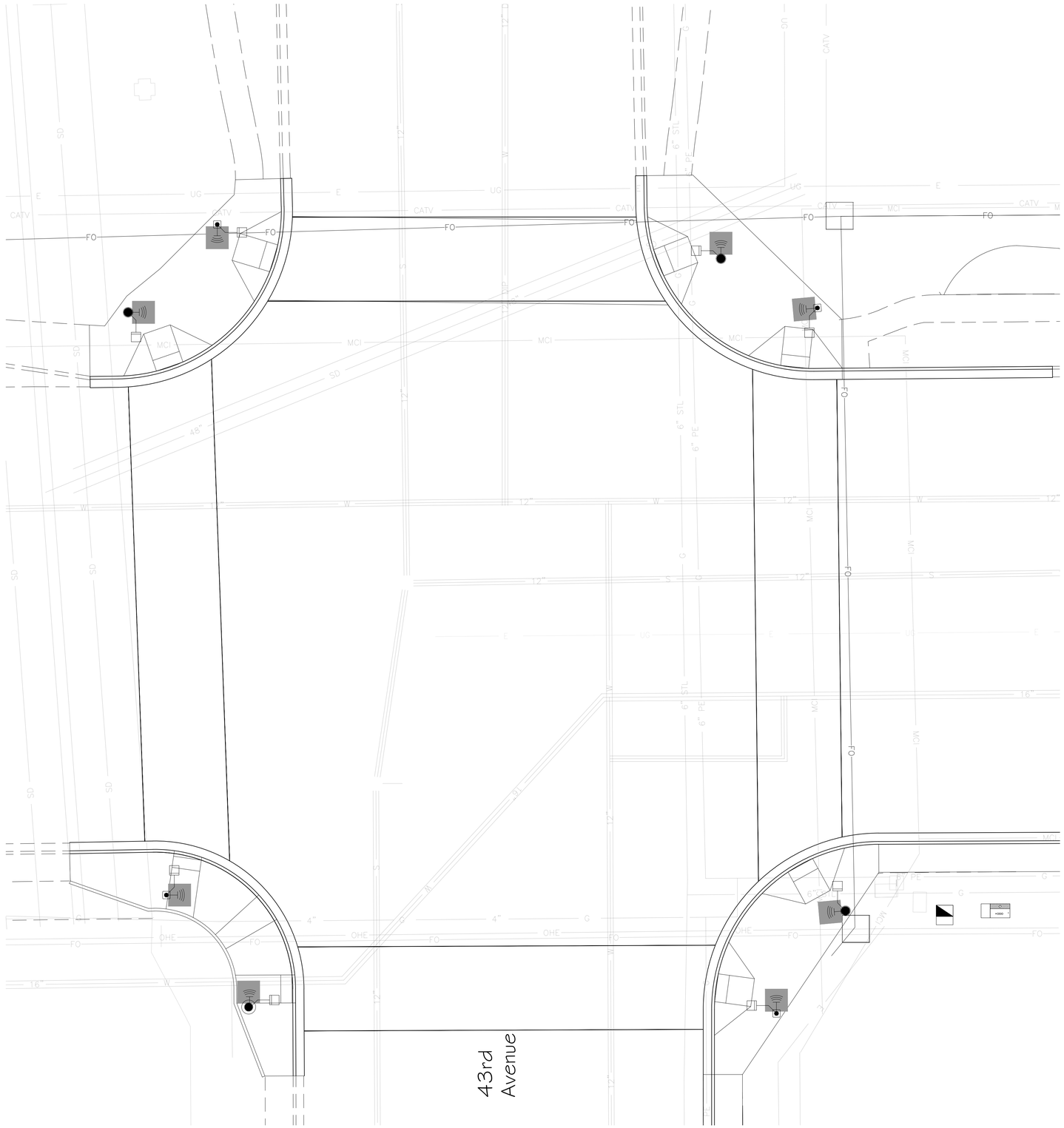
TRAFFIC SIGNAL ENGINEER _____ DATE: _____

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE: _____

N

PROJECT #:			FILE NO: 11587	
DR: HSY	DES: HSY	CK: TEE	SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	3	4
SCALE: 1" = 20'		QS. #:		

DATE SAVED: 5/28/24 C:\USERS\HYOUNG\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0522673\ST85100437_43RDAVE_11587.DWG



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	343	368

AZTEC TYPSA

DR: HSY	DES: HSY	CK: TEE	DATE: 05/2024

RAMP DETAILS: HAPPY VALLEY AT 43rd AVENUE

N

FOR INFORMATION ONLY
SEE ROADWAY SHEETS FOR RAMP DESIGN
SEE FOUNDATION SHEET FOR POLE LOCATIONS AND TYPE

4' x 4' Landing

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

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ARIZONA811
Call 811 or click Arizona811.com

APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

RAMP DETAILS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

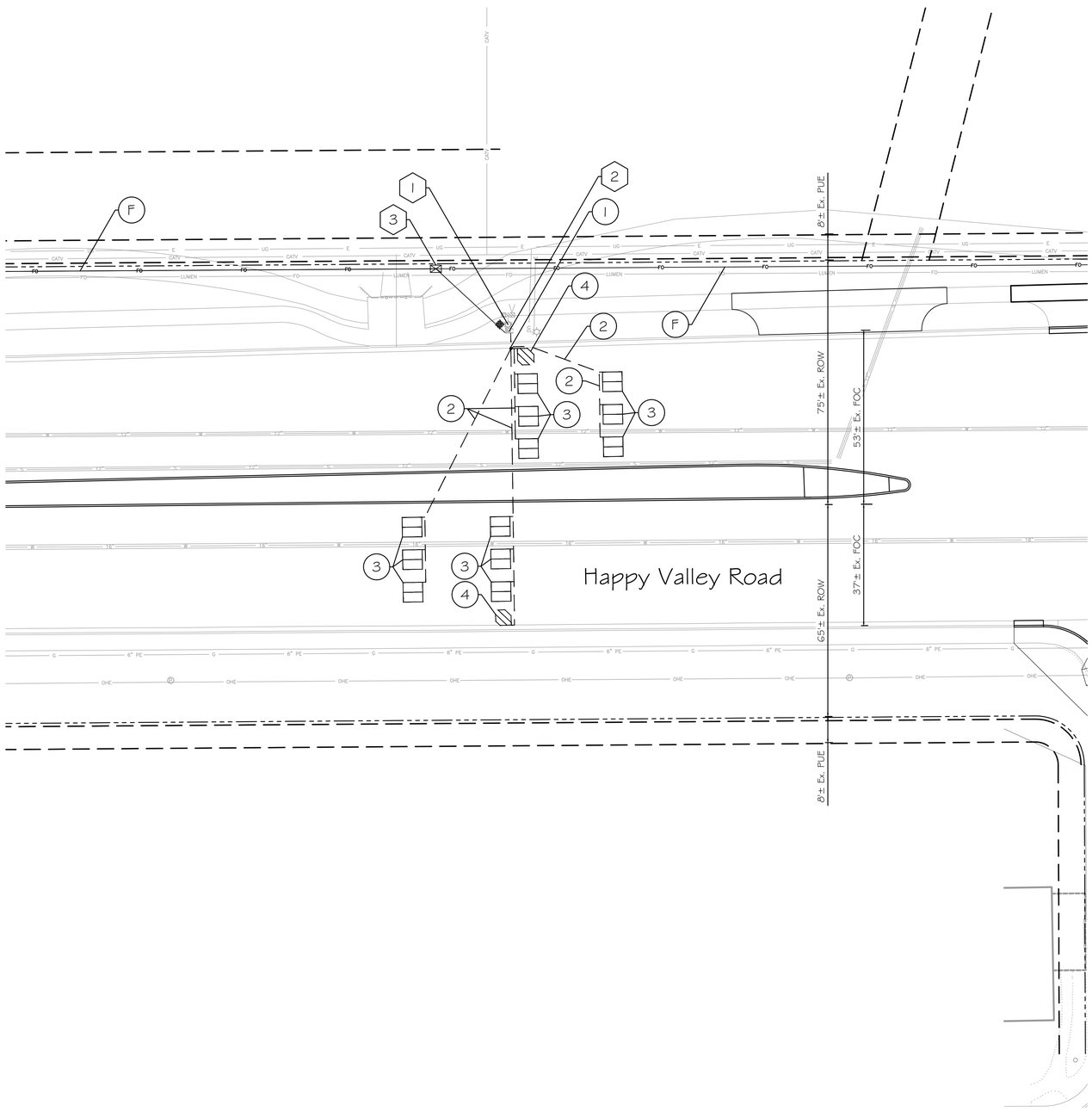
HAPPY VALLEY ROAD AT 43rd AVENUE
ST85100437
RAMP DETAILS

PROJECT #:			FILE NO: 11587
DR: HSY	DES: HSY	CK: TEE	SHEET NO: 4 / TOTAL SHEETS 4
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	
SCALE: 1" = 20'		QS. #:	

PROJECT #: ST85100437

FILE #: 11587

DATE SAVED: 5/28/24 C:\USERS\HYOUNG\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0522673\ST85100437_43RDAVE_11587.DWG



1. GENERAL NOTES: Contractor as referenced herein is the Developer Contractor.

1.1 The contractor shall notify the City of Phoenix Traffic Signal Shop (602-262-6733) a minimum of fourteen (14) calendar days prior to beginning any traffic signal work. Submittals of all equipment shall be furnished to the Signal Shop and approved prior to ordering any traffic signal equipment. The contractor shall verify they have the current approved plan set prior to starting and ordering any equipment.

1.2 Contractor must have a current visible Bluestake showing all utilities.

1.3 Traffic Signal Plan approval is valid for 365 calendar days from date sealed. If signal construction has not begun prior to the 365 days elapsing, the signal plans must be re-submitted for approval or an extension granted by the Deputy Director of Traffic Services or an authorized representative to ensure that existing traffic signal equipment locations and standard detail references are current.

1.4 The contractor shall have a complete set of approved plans including current City of Phoenix Traffic Signal Standard Details (www.phoenix.gov/streets/reference-material) on site at all times during signal and lighting systems construction. The contractor shall have a competent supervisor capable of reading and understanding plans and specifications and thoroughly experienced in the construction of traffic signals. The contractor's supervisor or lead shall possess a current International Municipal Signal Association (IMSA) Level II Traffic Signal Electrician Certification and must be on site during any traffic signal construction activities. It will be the responsibility of the contractor to supply verification of certification. If a jobsite is inspected and a certified Electrician is not on site, a stop work order will be issued.

1.5 The contractor is responsible for the construction of the project; its planning, safety, quality and completion. The City of Phoenix inspection team would make the determination if the work performed meets the criteria and if not, may request that the work be redone at the contractor's expense.

1.6 Traffic Signal Loops must be installed per City of Phoenix City Standard Detail
TS 5-1.

2. WORK TO BE PERFORMED BY THE CONTRACTOR

2.1 The contractor shall complete all trenching and all demolition work unless otherwise noted and to provide and install all conduit runs per the latest Traffic Signal Standard Details (see note 1.4).

2.2 Loop lead-in conduits shall be schedule 40 rigid PVC installed in accordance with the latest Traffic Signal Standard Details (see note 1.4). All conduits shall be installed in straight lines (unless approved by the Signal Shop Inspector), junction box to junction box or junction box to signal equipment foundation with one 90-degree sweep on each end as specified in the plans. All conduits entering junction boxes shall be vertical. All conduit ends except those in the controller cabinet foundation will be provided with a "bell end" fitting of appropriate size. Contractor shall provide sufficient space between conduits for "bell ends" to be installed in one piece without alterations. All conduits shall have a pull and locating conductor. Contractor shall install a #10 bare copper solid conductor or a detectable mule tape, installed as directed by signal shop staff.

3. WORK TO BE PERFORMED BY CITY OF PHOENIX SIGNAL CREWS

The City of Phoenix traffic signal crews will provide and install all above ground traffic signal equipment including:

- All controllers
- Power service pedestal mounting ring
- Type "B" power service pedestal w/ battery backup
- Poles, mast arms, risers and luminaire mast arms not identified in note 2.1
- All pole grouting
- All signal heads
- All pedestrian heads
- All accessible pedestrian signal (APS) push buttons
- All LED luminaires
- All illuminated street signs
- All signal wiring
- All loop and non-invasive detectors

All cameras and all radios

N

Registered Professional Engineer (Civil) CERTIFICATE NO. 39284 TRENT W. THATCHER State Of Arizona 05/30/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	344	368

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: CMW	DES: CKH	CK: TWT	DATE: 05/24

PROPOSED JUNCTION BOX SCHEDULE

NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM EXISTING TRAFFIC POLE
9	#7	73 ft. NORTH	22 ft. WEST

EXISTING

(1) Existing Traffic Signal Pole - Protect-In-Place
(2) Existing Traffic Junction Box - Protect-In-Place

INSTALL

(F) Fiber Optic Conduit - See Roadway Plans
(1) Conduit End Cap, See Note 1.6
(2) Saw Cut Traffic Detector Loop(s), See Note 1.6
(3) 6' x 6' Traffic Detector Loop, See Note 1.6
(4) Bicycle Detector Loop, See Note 1.6
(3) See Junction Box Schedule

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ARIZONA811
Call 811 or click Arizona811.com

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APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 41st AVENUE
ST85100437
FOUNDATION

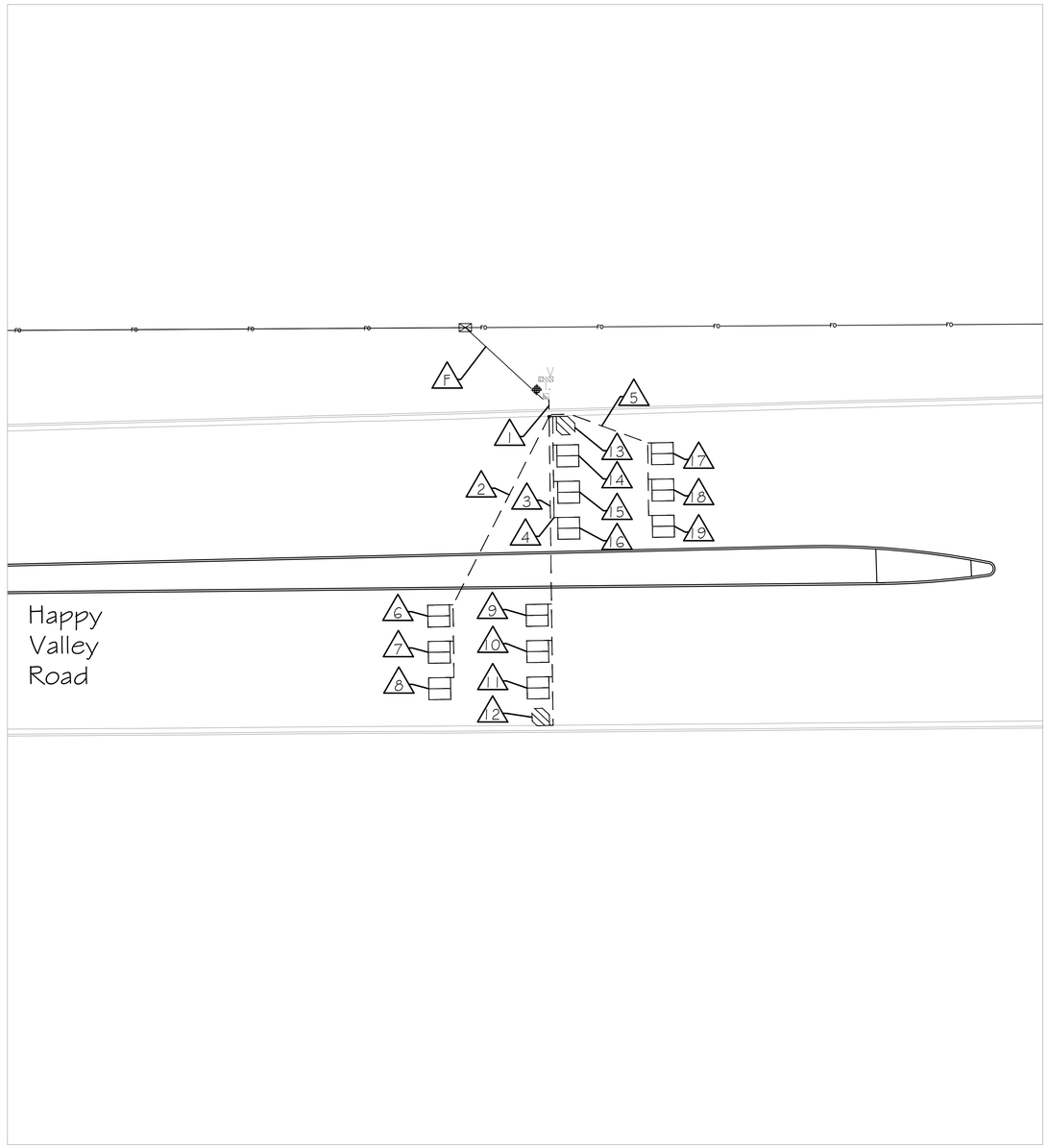
PROJECT #:			FILE NO: 11586	
DR: CMW	DES: CKH	CK: TWT	SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		
SCALE: 1" = 20'		QS. #:	1	2

TRAFFIC SIGNAL-HAPPY VALLEY AT 41st AVENUE

PROJECT #: ST85100437

FILE #: 11586

DATE SAVED: 5/9/24 C:\USERS\CMWASCOVICH\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0556964\ST85100437_41ST AVE.DWG



F 43rd NEC Fiber Optic Junction Box to Existing Junction Box at 41st

CONDUIT 1
Detectible Mule Tape

1 Junction Box to Conduit End Cap

CONDUIT 1
#10 Bare Copper
#14 IMSA 51-5 Loop Wire

2 Conduit End Cap to Loops

CONDUIT 1
#10 Bare Copper
#14 IMSA 51-5 Loop Wire

3 Conduit End Cap to Loops

CONDUIT 1
#10 Bare Copper
#14 IMSA 51-5 Loop Wire

4 Conduit End Cap to Loops

CONDUIT 1
#10 Bare Copper
#14 IMSA 51-5 Loop Wire

5 Conduit End Cap to Loops

CONDUIT 1
#10 Bare Copper
#14 IMSA 51-5 Loop Wire

6 Lane Loop

CONDUIT 1
#10 Bare Copper
#14 IMSA 51-5 Loop Wire

7 Lane Loop

CONDUIT 1
#10 Bare Copper
#14 IMSA 51-5 Loop Wire

8 Lane Loop

CONDUIT 1
#10 Bare Copper
#14 IMSA 51-5 Loop Wire

9 Lane Loop

CONDUIT 1
#10 Bare Copper

10 Lane Loop

CONDUIT 1
#10 Bare Copper

11 Lane Loop

CONDUIT 1
#10 Bare Copper

12 Bicycle Loop

CONDUIT 1
#10 Bare Copper
#14 IMSA 51-5 Loop Wire

13 Bicycle Loop

CONDUIT 1
#10 Bare Copper
#14 IMSA 51-5 Loop Wire

14 Lane Loop

CONDUIT 1
#10 Bare Copper
#14 IMSA 51-5 Loop Wire

15 Lane Loop

CONDUIT 1
#10 Bare Copper
#14 IMSA 51-5 Loop Wire

16 Lane Loop

CONDUIT 1
#10 Bare Copper
#14 IMSA 51-5 Loop Wire

17 Lane Loop

CONDUIT 1
#10 Bare Copper
#14 IMSA 51-5 Loop Wire

18 Lane Loop

CONDUIT 1
#10 Bare Copper
#14 IMSA 51-5 Loop Wire

19 Lane Loop

CONDUIT 1
#10 Bare Copper
#14 IMSA 51-5 Loop Wire

Registered Professional Engineer (Civil) CERTIFICATE NO. 39284 TRENT W. THATCHER State Expires 09/30/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	345	368

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: CMW	DES: CKH	CK: TWT	DATE: 05/24

TRAFFIC SIGNAL HAPPY VALLEY AT 41st AVENUE

PROJECT #: ST85100437

FILE #: 11586

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TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 41st AVENUE
ST85100437
WIRING

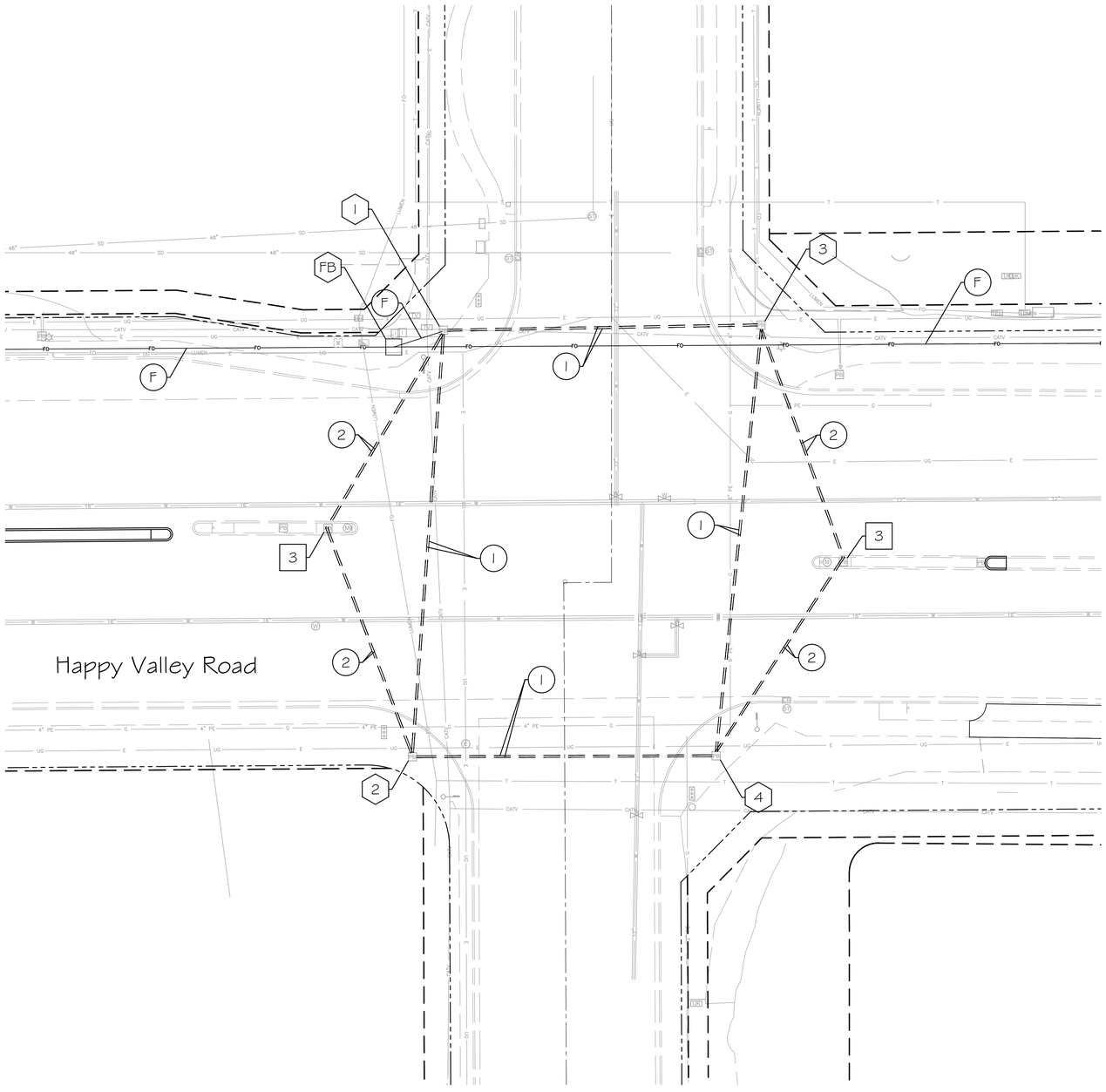
APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE: _____

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE: _____

PROJECT #:			FILE NO: 11586
DR: CMW	DES: CKH	CK: TWT	SHEET NO: 2 / TOTAL SHEETS: 2
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	
SCALE: 1" = 20'		QS. #:	

DATE SAVED: 5/9/24 C:\USERS\CMWASCOVICH\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0556964\ST85100437_41ST AVE.DWG



1. GENERAL NOTES: Contractor as referenced herein is the Developer Contractor.

1.1 The contractor shall notify the City of Phoenix Traffic Signal Shop (602-262-6733) a minimum of fourteen (14) calendar days prior to beginning any traffic signal work. Submittals of all equipment shall be furnished to the Signal Shop and approved prior to ordering any traffic signal equipment. The contractor shall verify they have the current approved plan set prior to starting and ordering any equipment.

1.2 The contractor shall layout all ADA ramps, junction boxes and foundation locations for approval by a traffic signal representative. Contractor must have a current visible Bluestake showing all utilities. All ADA ramps shall be laid out in white marking paint to determine best traffic signal pole locations.

1.3 Traffic Signal Plan approval is valid for 365 calendar days from date sealed. If signal construction has not begun prior to the 365 days elapsing, the signal plans must be re-submitted for approval or an extension granted by the Deputy Director of Traffic Services or an authorized representative to ensure that existing traffic signal equipment locations and standard detail references are current.

1.4 The contractor shall have a complete set of approved plans including current City of Phoenix Traffic Signal Standard Details (www.phoenix.gov/streets/reference-material) on site at all times during signal and lighting systems construction. The contractor shall have a competent supervisor capable of reading and understanding plans and specifications and thoroughly experienced in the construction of traffic signals. The contractor's supervisor or lead shall possess a current International Municipal Signal Association (IMSA) Level II Traffic Signal Electrician Certification and must be on site during any traffic signal construction activities. It will be the responsibility of the contractor to supply verification of certification. If a jobsite is inspected and a certified Electrician is not on site, a stop work order will be issued.

1.5 The contractor is responsible for the construction of the project; its planning, safety, quality and completion. The City of Phoenix inspection team would make the determination if the work performed meets the criteria and if not, may request that the work be redone at the contractor's expense.

1.6 Foundation elevations must be within 1/4" of finished sidewalk grade.

1.7 A minimum of a four (4) foot clear path is required around all traffic signal poles. A four by four (4x4) flat landing centered on the pedestrian push button must be maintained as provided on the latest Traffic Signal Standard Details (see note 1.4).

2. WORK TO BE PERFORMED BY THE CONTRACTOR

2.1 The contractor shall complete all trenching and all demolition work unless otherwise noted and to provide and install the following per the latest Traffic Signal Standard Details (see note 1.4).

- All other foundations (controllers and power service pedestal (PSP))
- All junction boxes with 1.8" of sump (installed completely inside or completely outside of concrete)
- All conduit runs, including the conduit runs from the PSP to the utility companies point of service
- All pole anchor cages, nuts and bolts required for pole foundations installed by the contractor in addition to those specified in note

Note: City to provide service pedestal rings (see note 3).

2.2 All underground conduits shall be schedule 40 rigid polyvinyl chloride (PVC) installed 24 inches to 30 inches below finished grade except for loop lead-in conduits, which shall be schedule 40 rigid PVC installed in accordance with the latest Traffic Signal Standard Details (see note 1.4). All conduits shall be installed in straight lines (unless approved by the Signal Shop Inspector), junction box to junction box or junction box to signal equipment foundation with one 90-degree sweep on each end as specified in the plans. All conduits entering junction boxes shall be vertical. Conduits in all foundations shall be located as close as possible to center of the foundation and vertical with foundation below the bottom of the cover. All conduit ends except those in the controller cabinet foundation will be provided with a "bell end" fitting of appropriate size. Contractor shall provide sufficient space between conduits for "bell ends" to be installed in one piece without alterations. All conduits shall have a pull and locating conductor. Contractor shall install a #10 bare copper solid conductor or a detectable mule tape, installed as directed by signal shop staff.

2.3 Removal of existing streetlights, the contractor shall:

- Request de-energization of all streetlights listed for removal
- Provide complete removal of streetlight pole, mast arm and luminaire
- Properly dispose of all streetlight material

3. WORK TO BE PERFORMED BY CITY OF PHOENIX SIGNAL CREWS

The City of Phoenix traffic signal crews will provide and install all above ground traffic signal equipment including:

- All controllers
- Power service pedestal mounting ring
- Type "B" power service pedestal w/ battery backup
- Poles, mast arms, risers and luminaire mast arms not identified in note 2.1
- All pole grouting
- All signal heads
- All pedestrian heads
- All accessible pedestrian signal (APS) push buttons
- All LED luminaires
- All illuminated street signs
- All signal wiring
- All loop and non-invasive detectors
- All cameras and all radios

4. SITE SPECIFIC NOTES

4.1 Existing Junction Box 3 to be removed. Pull existing conductors out of existing conduit and reroute through the newly placed conduit.

Registered Professional Engineer (Civil) CERTIFICATE NO. 39284 TRENT W. THATCHER Date Signed 05/09/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	346	368

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: CMW	DES: CMW	CK: TWT	DATE: 05/24

EXISTING

1 Traffic Signal Junction Box - Protect-In-Place
2 Traffic Signal Junction Box - Protect-In-Place
3 Traffic Signal Junction Box - Protect-In-Place
4 Traffic Signal Junction Box - Protect-In-Place

2 Existing Conduit - Abandon in Place

INSTALL

FB Fiber Optic Junction Box - See Roadway Plans
F Fiber Optic Conduit - See Roadway Plans
1 2 1/2" Schedule 40 PVC

REMOVE

3 Traffic Signal Junction Box - 1
See Note 4.1

TRAFFIC SIGNAL HAPPY VALLEY AT 39th AVENUE

PROJECT #: ST85100437

FILE #: 11586

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ARIZONA811
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TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 39th AVENUE
ST85100437

FOUNDATION

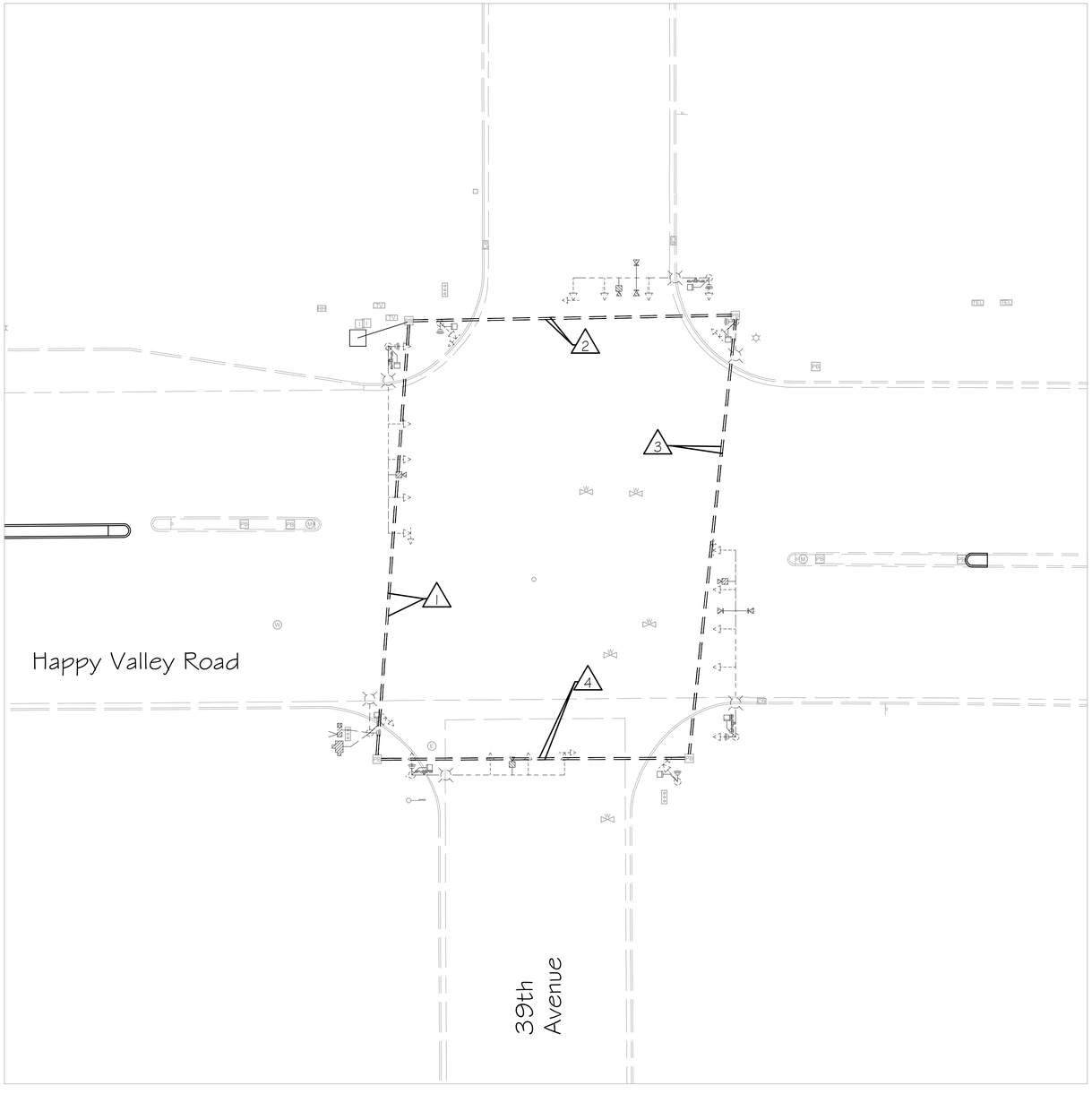
APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

PROJECT #:			FILE NO: 11586
DR: CMW	DES: CMW	CK: TWT	SHEET NO: 1 / TOTAL SHEETS 2
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	
SCALE: 1" = 20'		QS. #:	

DATE SAVED: 5/9/24 C:\USERS\CMWASCOVICH\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0556964\ST85100437_39THAVE.DWG



1 NWC Junction Box to SWC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Detection Camera Cable (2) EVP Detection Cable (2) EVP Confirmation Cable (2)

2 NWC Junction Box to NEC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Detection Camera Cable (2) EVP Detection Cable (2) EVP Confirmation Cable (2)

3 NEC Junction Box to SEC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Detection Camera Cable (2) EVP Detection Cable (2) EVP Confirmation Cable (2)

4 SEC Junction Box to SWC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Detection Camera Cable (2) EVP Detection Cable (2) EVP Confirmation Cable (2)

Registered Professional Engineer (Civil)
CERTIFICATE NO.
39284
TRENT W. THATCHER
State Of Arizona
05/09/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	347	368

WILSON & COMPANY
410 North 44th Street
Suite 460
Phoenix, Arizona 85008

DR: CMW	DES: CMW	CK: TWT	DATE: 05/24

TRAFFIC SIGNAL AT HAPPY VALLEY AT 39th AVENUE

PROJECT #: ST85100437

FILE #: 11586

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Call 811 or click Arizona811.com

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TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 39th AVENUE
ST85100437
WIRING

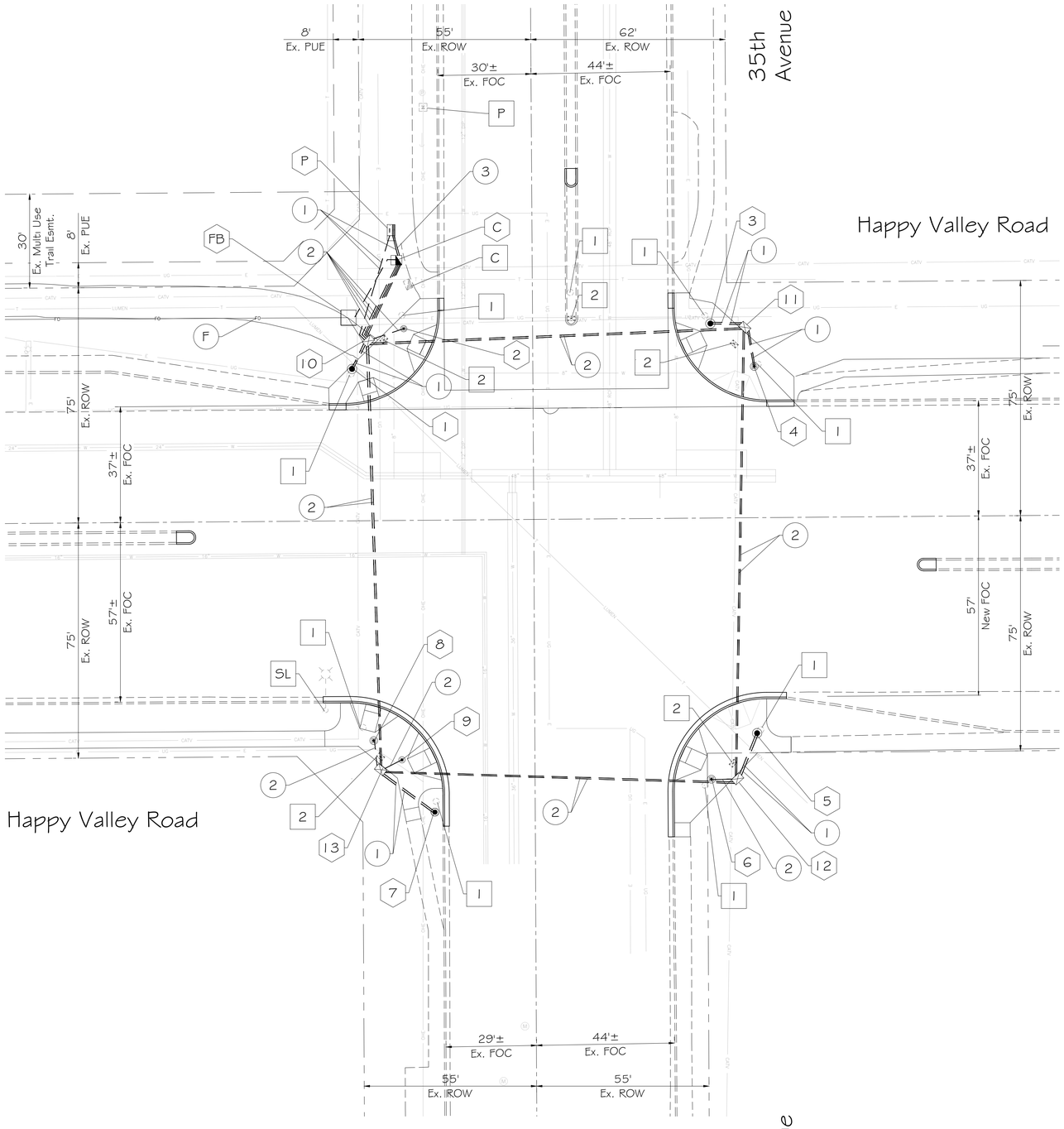
APPROVED BY:

TRAFFIC SIGNAL ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

PROJECT #:			FILE NO: 11586
DR: CMW	DES: CMW	CK: TWT	SHEET NO: 2 / TOTAL SHEETS 2
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	
SCALE: 1" = 20'		QS. #:	

DATE SAVED: 5/9/24 C:\USERS\CMWASCOVICH\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0556964\ST85100437_39THAVE.DWG



1. GENERAL NOTES:

1.1 The contractor shall notify the City of Phoenix Traffic Signal Shop (602-262-6733) a minimum of fourteen (14) calendar days prior to beginning any traffic signal work. Submittals of all equipment shall be furnished to the Signal Shop and approved prior to ordering any traffic signal equipment. The contractor shall verify they have the current approved plan set prior to starting and ordering any equipment.

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1.3 Traffic Signal Plan approval is valid for 365 calendar days from date sealed. If signal construction has not begun prior to the 365 days elapsing, the signal plans must be re-submitted for approval or an extension granted by the Deputy Director of Traffic Services or an authorized representative to ensure that existing traffic signal equipment locations and standard detail references are current.

1.4 All traffic signal equipment and materials shall follow the current City of Phoenix Traffic Signal Standard Details and Specifications (www.phoenix.gov/streets/reference-material). The contractor shall have a copy of these standards along with a complete set of approved plans on site at all times during signal and lighting systems construction. The contractor shall have a competent supervisor capable of reading and understanding plans and specifications and thoroughly experienced in the construction of traffic signals. The contractor's supervisor or lead shall possess a current International Municipal Signal Association (IMSA) Level II Traffic Signal Electrician Certification and must be on site during any traffic signal construction activities. It will be the responsibility of the contractor to supply verification of certification. If a jobsite is inspected and a certified Electrician is not on site, a stop work order will be issued.

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1.6 Foundation elevations must be within 1/4" of finished sidewalk grade.

1.7 A minimum of a four (4) foot clear path is required around all traffic signal poles. A four by four (4x4) flat landing centered on the pedestrian push button must be maintained as provided on the Traffic Signal Standard Details (see note 1.4).

1.8 Contractor shall verify location and orientation of all pole and mast arm mounted equipment on all new traffic signal poles and mast arms with the Traffic Signal shop's representative prior to drilling any holes in the poles or mast arms. Failure to get approval may result in replacement of the pole at the contractor's expense.

2. WORK TO BE PERFORMED BY THE CONTRACTOR

The contractor shall supply all materials and perform all work except as indicated in note 3.

3. WORK TO BE PERFORMED BY CITY OF PHOENIX SIGNAL CREWS

Traffic Signal representative shall approve marked layout of ADA ramps, junction boxes and foundation locations prior to excavation, prep contractor furnished controller cabinets and internal equipment (contractor to pick up and install controller cabinet), inspect and approve all traffic signal equipment installed by contractor and terminate, test and activate all field wiring into controller cabinet(s).

REGISTERED PROFESSIONAL ENGINEER (CERTIFICATE NO.) 49930 TRACY ELIZABETH EBERLEIN Date Signed (manually) ARIZONA

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	348	368

AZTEC TYPSA

DR: HSY | DES: HSY | CK: TEE | DATE: 05/2024

PROPOSED FOUNDATION SCHEDULE

NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM 35th AVENUE MON LINE
C	CONT	83 ft. NORTH	42 ft. WEST
P	PSP	93 ft. NORTH	45 ft. WEST
1	P70	48 ft. NORTH	58 ft. WEST
2	GP	61 ft. NORTH	41 ft. WEST
3	P70	62 ft. NORTH	57 ft. EAST
4	LP	48 ft. NORTH	71 ft. EAST
5	P70	69 ft. SOUTH	71 ft. EAST
6	LP	83 ft. SOUTH	56 ft. EAST
7	P45	93 ft. SOUTH	32 ft. WEST
8	LP	70 ft. SOUTH	51 ft. WEST
9	AP	76 ft. SOUTH	42 ft. WEST

PROPOSED JUNCTION BOX SCHEDULE

NO.	TYPE	OFFSET FROM HAPPY VALLEY MON LINE	OFFSET FROM 35th AVENUE MON LINE
10	#7	57 ft. NORTH	52 ft. WEST
11	#7	61 ft. NORTH	68 ft. EAST
12	#7	83 ft. SOUTH	65 ft. EAST
13	#7	70 ft. SOUTH	49 ft. WEST

INSTALL

- C — 8 Phase Controller Foundation - See Foundation Schedule
- P — Type B Power Service Pedestal Foundation w/Battery Backup See Foundation Schedule
- 1 thru 9 — See Foundation Schedule
- 10 thru 13 — See Junction Box Schedule
- FB — Fiber Optic Junction Box - See Roadway Plans
- 1 — 2" Schedule 40 PVC
- 2 — 2 1/2" Schedule 40 PVC
- 3 — 1" Schedule 40 PVC
- F — Fiber Optic Conduit - See Roadway Plans

REMOVE

- 1 — Traffic Signal Foundation - 9
- 2 — Traffic Junction Boxes - 5
- P — Power Service Pedestal - 1
- C — Controller - 1
- SL — Streetlight - 1

TRAFFIC SIGNAL: HAPPY VALLEY AT 35th AVENUE

PROJECT #: ST85100437

FILE #: 11588

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TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

APPROVED BY:

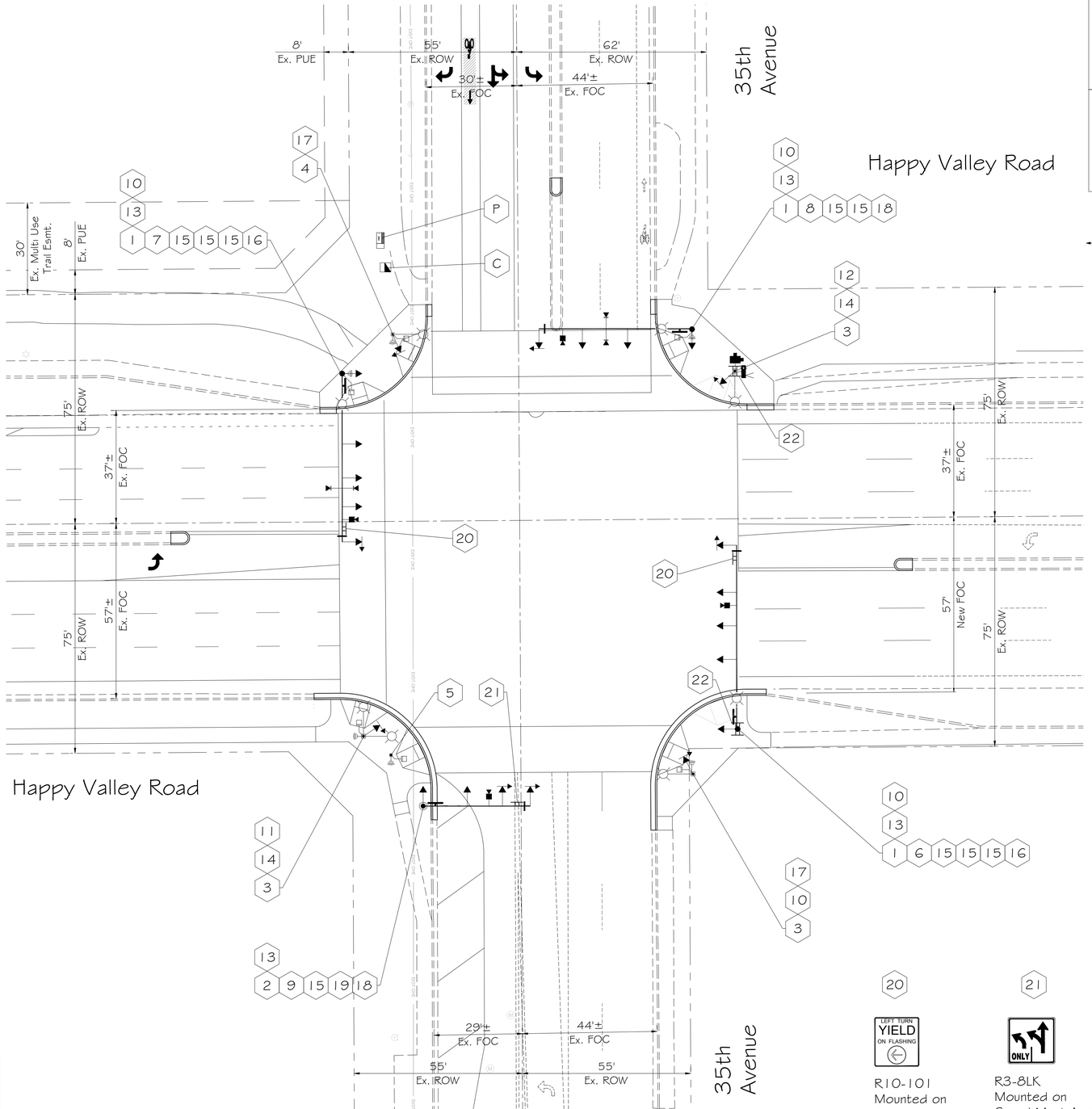
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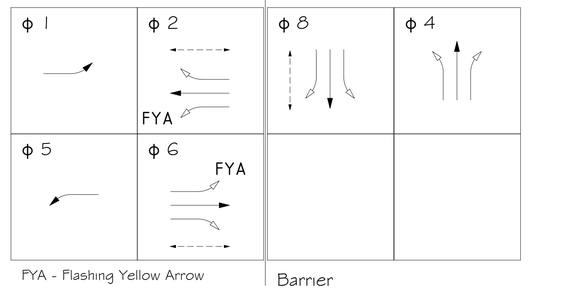
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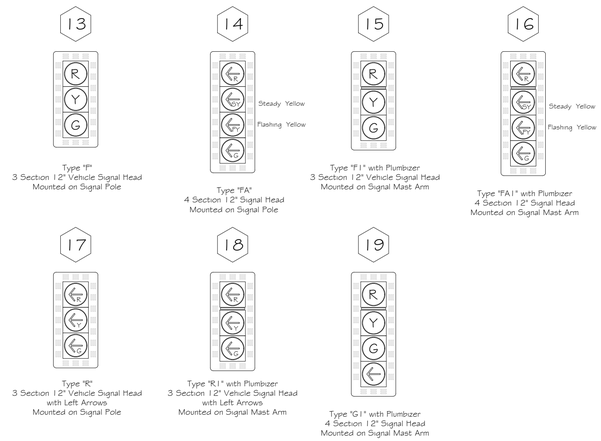
HAPPY VALLEY ROAD AT 35th AVENUE
ST85100437
FOUNDATION

PROJECT #:				FILE NO: 11588	
DR: HSY	DES: HSY	CK: TEE		SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		1	4
SCALE: 1" = 20'			QS. #:		

DATE SAVED: 5/28/24 C:\USERS\HYOUNG\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0522673\ST85100437_35THAVE_11588.DWG







- Video Detection - 4 New
- LED Luminaire - 8 New
- Illuminated Street Sign - 4 New
- Sign at Traffic Signal - 7 New
- Pedestrian Head - 6 New
- APS Pedestrian Push Buttons - 6 New
- Wireless Radio - 1 New
- CCTV Camera - 1 New
- Dual EVP Device - 2 New
- Mast Arm Damper - 4 New

R10-101
Mounted on
Signal Mast Arm

R3-8LK
Mounted on
Signal Mast Arm



R9-3a
R9-3b(L,R)
Mounted on
Signal Pole

FOR ADDITIONAL SIGNS AND PAINT AND SIGNING INFORMATION
SEE STD DWG # 11589

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	349	368

AZTEC TYPSA

DR: HSY	DES: HSY	CK: TEE	DATE: 05/2024

EQUIPMENT LIST

- C — 8 Phase Controller Cabinet for Signal - 1 New
- P — Type B Power Service Pedestal w/Battery Backup - 1 New
- 1 — Traffic Signal Pole Type P70 - 3 New
- 2 — Traffic Signal Pole Type P45 - 1 New
- 3 — Traffic Signal Pole Type LP - 3 New
- 4 — Traffic Signal Pole Type GP - 1 New
- 5 — Traffic Signal Pole Type AP - 1 New
- 6 — P70 60' Signal Mast Arm - 1 New
- 7 — P70 55' Signal Mast Arm - 1 New
- 8 — P70 50' Signal Mast Arm - 1 New
- 9 — P45 35' Signal Mast Arm - 1 New
- 10 — 5' Riser, Single Shoe - 4 New
- 11 — 5' Riser, Dual Shoe (90°) - 1 New
- 12 — 20' Riser, Single Shoe - 1 New
- 13 — Type F 12" Signal Head - 4 New
  Signal Pole Mount
- 14 — Type FA 12" Signal Head, Left Arrows - 2 New
  Signal Pole Mount
- 15 — Type F1 12" Signal Head - 10 New
  Mast Arm Mount w/Plumbizer
- 16 — Type FA1 12" Signal Head, Left Arrows - 2 New
  Mast Arm Mount w/Plumbizer
- 17 — Type R 12" Signal Head, Left Arrows - 2 New
  Signal Pole Mount
- 18 — Type R1 12" Signal Head, Left Arrows - 2 New
  Mast Arm Mount w/Plumbizer
- 19 — Type G1 12" Signal Head, Left Arrow - 1 New
  Mast Arm Mount w/Plumbizer

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 49930 TRACY ELIZABETH EBERLIN Date Signed 05/28/24 ARIZONA

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

APPROVED BY:

TRAFFIC SIGNAL ENGINEER — DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR — DATE:

TRAFFIC SIGNAL PLAN

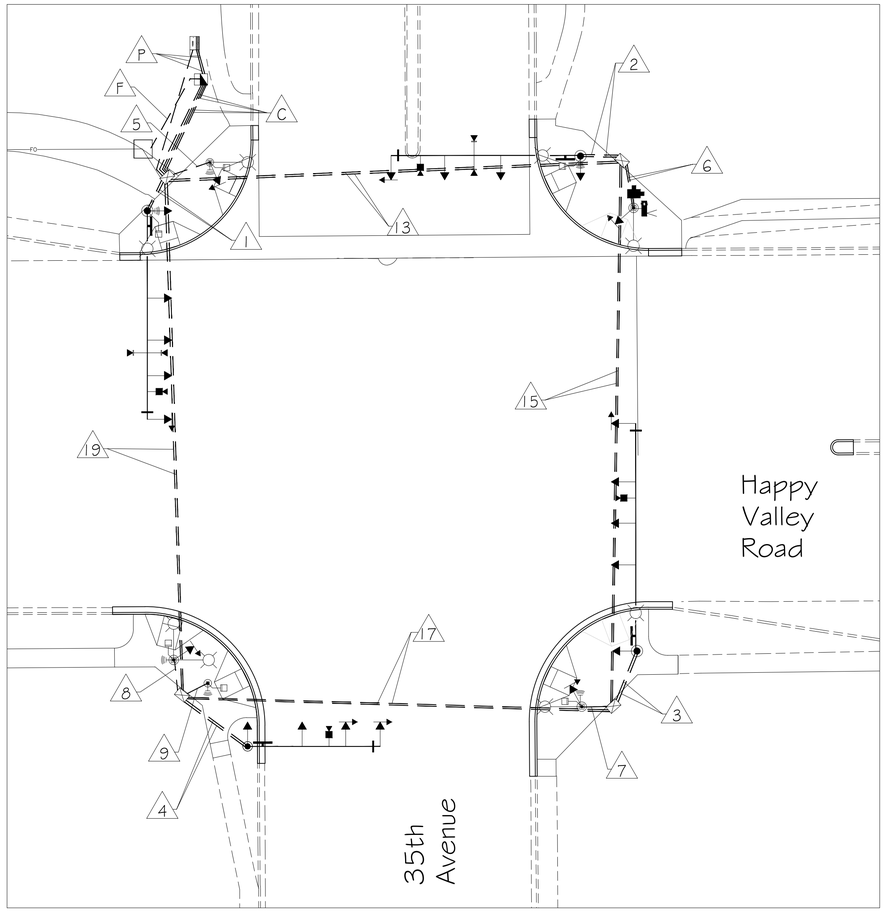
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 35th AVENUE
ST85100437
EQUIPMENT

PROJECT #:			FILE NO: 11588
DR: HSY	DES: HSY	CK: TEE	SHEET NO: 2 / TOTAL SHEETS: 4
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024	
SCALE: 1" = 20'		QS. #:	

TRAFFIC SIGNAL: HAPPY VALLEY AT 35th AVENUE
PROJECT #: ST85100437
FILE #: 11588

DATE SAVED: 5/28/24 C:\USERS\HYOUNG\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0522673\ST85100437_35THAVE_11588.DWG



C Controller to #7 Junction Box

CONDUIT 1	CONDUIT 2	CONDUIT 3	CONDUIT 4
#10 Bare Copper #10 AWG White 42C IMSA Cable	#10 Bare Copper Video Detection (4) EVP Detection Cable (4) EVP Confirmation Cable (4) CCTV Cable (1) ITS Cable (1)	#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green	Detectible Mule Tape

P1 Power Service Pedestal to #7 Junction Box

CONDUIT 1
#10 Bare Copper 3C IMSA Cable (LUM) 3C IMSA Cable (SIGN) 3C IMSA Cable (RADIO) 5C IMSA Cable

P2 Power Service Pedestal to Controller

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG Black #10 AWG White #10 AWG Green	Detectible Mule Tape

1 NWC Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1)	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (2) EVP Confirmation Cable (2)

2 NEC Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1)	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (2) EVP Confirmation Cable (2)

3 SEC Junction Box to P70 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1)	#10 Bare Copper Video Detection Cable (1)

4 SWC Junction Box to P45 Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (SIGN) (1) 25C IMSA Cable 3C IMSA Cable (LUM) (1)	#10 Bare Copper Video Detection Cable (1)

5 NWC Junction Box to GP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable 3C IMSA Cable (LUM)(1)

6 NEC Junction Box to LP Pole

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 3C IMSA Cable (RADIO)(1) 25C IMSA Cable 3C IMSA Cable (LUM)(1)	#10 Bare Copper CCTV Cable (1) ITS Cable (1)

7 SEC Junction Box to LP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable 3C IMSA Cable (LUM)(1)

8 SWC Junction Box to LP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable 3C IMSA Cable (LUM)(1)

9 SWC Junction Box to AP Pole

CONDUIT 1
#10 Bare Copper #10 AWG White 3C IMSA Cable 25C IMSA Cable

13 NWC Junction Box to NEC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable 3C IMSA Cable (RADIO) (1)	#10 Bare Copper Video Detection Cable (1) EVP Detection Cable (2) CCTV Cable (1) EVP Confirmation Cable (2) ITS Cable (1)

15 NEC Junction Box to SEC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Video Detection Cable (2)

17 SEC Junction Box to SWC Junction Box

CONDUIT 1	CONDUIT 2
Detectible Mule Tape	Detectible Mule Tape

19 SWC Junction Box to NWC Junction Box

CONDUIT 1	CONDUIT 2
#10 Bare Copper #10 AWG White 5C IMSA Cable 42C IMSA Cable	#10 Bare Copper Video Detection Cable (1)

F Fiber Junction Box to Controller

CONDUIT 1
Detectible Mule Tape

N

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 49930 TRACY ELIZABETH EBERLEIN Date Signed (mm/dd/yy) ARIZONA

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	350	368

AZTEC TYPSA

DR: HSY	DES: HSY	CK: TEE	DATE: 05/2024

TRAFFIC SIGNAL HAPPY VALLEY AT 35th AVENUE

PROJECT #: ST85100437

FILE #: 11588

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

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ARIZONA811 Blue Stake, Inc.
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TRAFFIC SIGNAL PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

APPROVED BY:

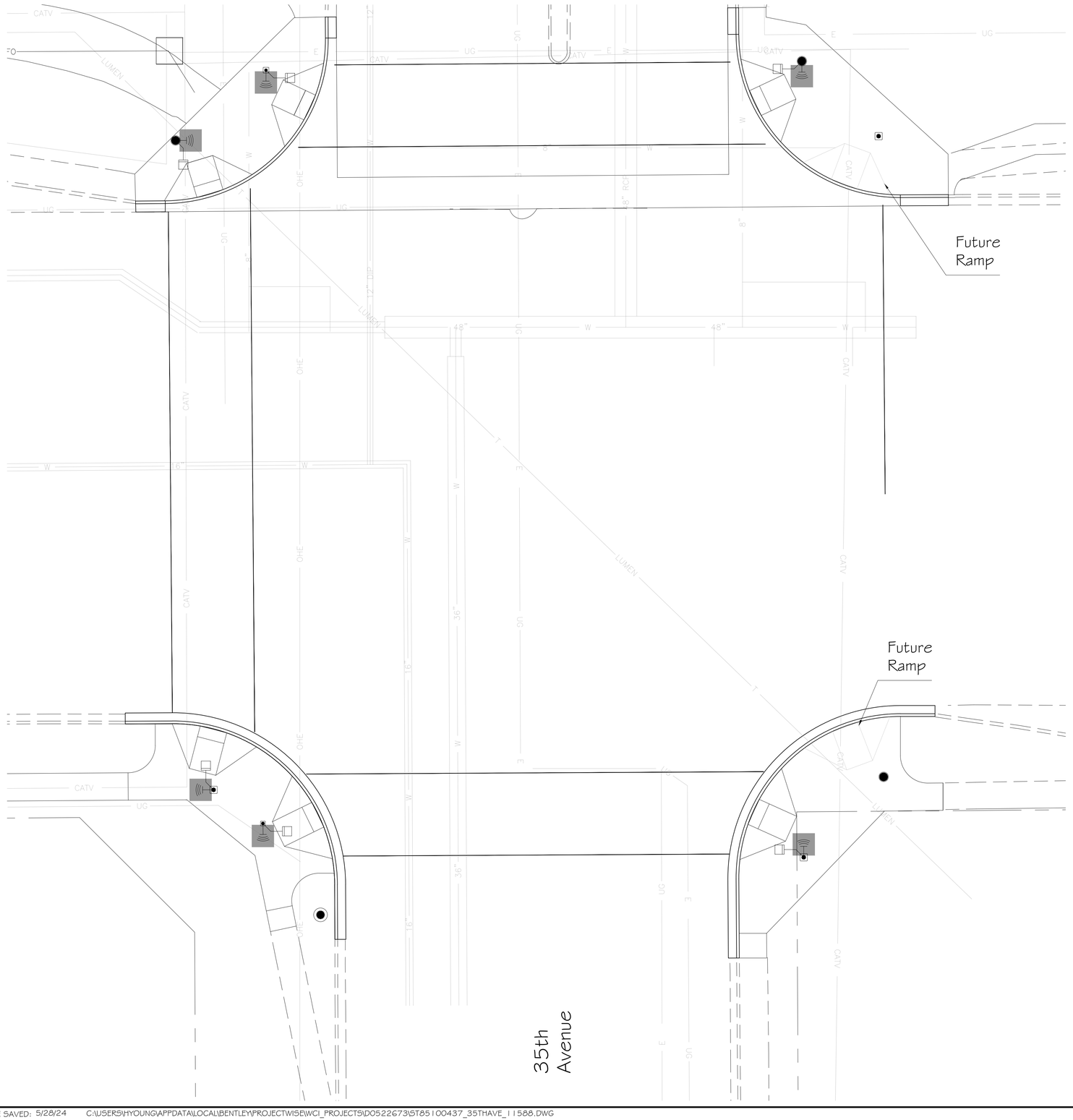
TRAFFIC SIGNAL ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

HAPPY VALLEY ROAD AT 35th AVENUE
ST85100437
WIRING

PROJECT #:			FILE NO: 11588	
DR: HSY	DES: HSY	CK: TEE	SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		
SCALE: 1" = 20'		QS. #:	3	4

DATE SAVED: 5/28/24 C:\USERS\HYOUNG\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0522673\ST85100437_35THAVE_11588.DWG



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	ST85100437	351	368

AZTEC TYPSA

DR: HSY | DES: HSY | CK: TEE | DATE: 05/2024

RAMP DETAILS: HAPPY VALLEY AT 35th AVENUE

PROJECT #: ST85100437

FILE #: 11588

FOR INFORMATION ONLY
SEE ROADWAY SHEETS FOR RAMP DESIGN
SEE FOUNDATION SHEET FOR POLE LOCATIONS AND TYPE

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX

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Call 811 or click Arizona811.com

APPROVED BY:

TRAFFIC SERVICES ENGINEER _____ DATE:

STREET TRANSPORTATION TRAFFIC SERVICES DEPUTY DIRECTOR _____ DATE:

RAMP DETAILS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD AT 35th AVENUE
ST85100437
RAMP DETAILS

PROJECT #:			FILE NO: 11588	
DR: HSY	DES: HSY	CK: TEE	SHEET NO:	TOTAL SHEETS
DATE: 05/2024	DATE: 05/2024	DATE: 05/2024		
SCALE: 1" = 20'		QS. #:	4	4

DATE SAVED: 5/28/24 C:\USERS\HYOUNG\APPDATA\LOCAL\BENTLEY\PROJECTWISE\WCI_PROJECTS\D0522673\ST85100437_35THAVE_11588.DWG

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

CITY OF PHOENIX STREET LIGHTING
HAPPY VALLEY ROAD
67th AVENUE TO 35th AVENUE

REVISION BY CITY OF PHOENIX				
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX				
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX				
NO.	DESCRIPTION	REV BY	CKD BY	DATE

STREET LIGHTING GENERAL NOTES

THE FOLLOWING INFORMATION IS PROVIDED TO EMPHASIZE CRITICAL WORK AND IS INTENDED TO SUPPLEMENT THE SPECIFICATIONS.

1. THE CONTRACTOR SHALL COMPLY WITH STATE AND CITY STATUTES AND ORDINANCES.
2. PRIOR TO SUBMITTAL, THE STREET LIGHT DESIGNER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THE CONTRACT.
3. THE STREET LIGHT DESIGNER SHOULD VERIFY DIMENSIONS AT THE SITE AND IMMEDIATELY REPORT DIFFERENCES TO THE DEVELOPER'S CONSTRUCTION MANAGER AND NOT PROCEED WITH WORK UNTIL THE CONSTRUCTION MANAGER RENDERS A DECISION.
4. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL LICENSING REQUIREMENTS SET FORTH BY THE STATE REGISTRAR OF CONTRACTORS OFFICE TO PERFORM WORK RELATING TO STREET LIGHT INSTALLATION IN CITY OF PHOENIX RIGHT-OF-WAY.
5. ONE DRY UTILITY PERMIT FOR EACH CITY OF PHOENIX STREET LIGHT PROJECT SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
6. STREETLIGHT POLES SHALL BE INSTALLED PLUMB, BE ADJUSTED TO PROVIDE PROPER ALIGNMENT TO THE ROADWAY BEING LIGHTED AND BE PROPERLY GROUNDED WHEN THE INSTALLATION IS COMPLETED.
7. STREET LIGHTS ARE INSPECTED BY THE CITY OF PHOENIX STREETLIGHTING INSPECTOR. UTILITY COMPANY TO PROVIDE POLE NUMBER. THE CONTRACTOR SHALL INSTALL THE NUMBER 7'-0" A.F.G. AND STACK NUMBERS VERTICAL GOING UP. POLE NUMBER TO FACE THE STREETSIDE. THIS MUST BE DONE PRIOR TO ACCEPTANCE AND ENERGIZATION.
8. LUMINAIRES SHALL BE INSTALLED LEVEL AND INCLUDE A LAMP AND PHOTOCELL. THE LUMINAIRES SHALL BE FREE OF DUST, DIRT OR ANYTHING THAT WOULD IMPAIR THE OUTPUT OF THE LIGHT.
9. LUMINAIRES FURNISHED WITH MULTI-TAP DRIVERS SHALL BE REWIRED OR RECONNECTED TO MATCH THE VOLTAGE SUPPLIED BY THE ELECTRIC UTILITY COMPANY.
10. POLE SHALL BE SET PLUMB IN TWO DIRECTIONS, NINETY (90) DEGREES APART.
11. SURPLUS EXCAVATION SHALL BE DISPOSED OF BY THE CONTRACTOR.
12. WIRING SHALL BE INSTALLED PER SERVING UTILITY COMPANY STANDARDS. CONDUIT SHALL BE INSTALLED AT THE DEPTH SPECIFIED ON THEIR PLANS.

STREET LIGHTING GENERAL NOTES (CONTNUED)

13. CONDUIT MUST BE LISTED AND LABELED AND SUITABLE FOR UNDERGROUND USE.
14. CONNECTIONS SHALL BE PER SERVING UTILITY COMPANY STANDARDS. EACH POLE SHALL HAVE A 8' X 5/8" COPPER CLAD GROUND ROD DRIVEN BENEATH PULL BOX. A #6 BARE COPPER LEAD FROM THE GROUND ROD IN PULL BOX TO LANDING LUG IN STREET LIGHT POLE HAND HOLE IS REQUIRED.
15. EXCAVATION FOR PULL BOXES AND MATERIAL SPECIFICATIONS SHALL BE PER SERVING UTILITY COMPANY STANDARDS.
16. TRENCH SHALL BE INSTALLED PER SERVING UTILITY COMPANY STANDARDS. THE USE OF A COMMON ELECTRIC UTILITY COMPANY TRENCH IS PERMITTED.
17. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANY FOR COORDINATION OF THE TRENCHING AND THE INSTALLATION OF CONDUIT.
18. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING AND DRIVEWAYS THAT ARE DISTURBED DURING STREET LIGHT CONSTRUCTION TO THEIR ORIGINAL CONDITION IN CONFORMANCE WITH MAG SPECIFICATION SECTION 107.9.
19. IF A FIXTURE SHOULD FAIL, IT SHALL BE IMMEDIATELY REPLACED. THE DEVELOPER SHALL BE RESPONSIBLE FOR FURNISHING ALL PERSONNEL AND EQUIPMENT NECESSARY TO SUCCESSFULLY REPAIR THE FIXTURE.
20. THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE ENGINEERING MANAGER, AGAINST IMPERFECT WORKMANSHIP, FAILURE, MALFUNCTION OF MATERIALS AND/OR EQUIPMENT DUE TO FAULTY OR IMPERFECT WORKMANSHIP.
21. THIS GUARANTEE IS TO BE IN WRITING TO THE CITY AT THE TIME OF ISSUING FINAL ACCEPTANCE. MATERIALS AND WORKMANSHIP FOUND TO BE DEFECTIVE WITHIN THE WARRANTY PERIOD SHALL BE REPLACED WITHOUT COST TO THE CITY.
22. ALL NEW STREETLIGHT POLE LOCATIONS SHALL BE STAKED FOR APPROVAL OR FIELD ADJUSTMENTS BY THE ENGINEER AND THE CITY STREETLIGHTING TASK FORCE REPRESENTATIVE, PRIOR TO INSTALLATION. IF NECESSARY, UNDERGROUND UTILITIES SHALL BE VISUALLY IDENTIFIED IN CLOSE PROXIMITY TO STAKED LOCATION.

ARIZONA PUBLIC SERVICE (APS) NOTES

1. CONTRACTOR SHALL CONTACT APS INSPECTOR IDENTIFIED ON THE APS CONSTRUCTION DRAWING FOR PRE-CONSTRUCTION MEETING PRIOR TO ANY EXCAVATION.
2. CONTRACTOR TO SUPPLY ALL TRENCH AND CONDUIT, PER APS REQUIREMENTS, UNLESS OTHERWISE NOTED.
3. GRADE STAKE WILL BE SET WITHIN 2' OF J-BOX LOCATION.
4. CONTRACTOR WILL COORDINATE WITH APS AND CITY OF PHOENIX FOR DE-ENERGIZING OF STREETLIGHT CONDUCTOR.
5. GROUND ROD TO BE PROVIDED AND INSTALLED BY CONTRACTOR OUTSIDE OF APS J-BOX AT EACH STREETLIGHT LOCATION.
6. IF THE CONTRACTOR INSTALLS THE POLE, THE BARE #6 COPPER GROUND WIRE SHALL BE CONNECTED FROM THE GROUND ROD IN THE APS J-BOX TO THE GROUND CONNECTION IN THE HAND-HOLE..
7. ALL TRENCH AND CONDUIT TO BE INSPECTED BY APS. DO NOT BACKFILL UNTIL INSPECTED.
8. APS CONSTRUCTION PRINT MUST BE USED AS A TRENCHING REFERENCE. TRENCHING VARIATIONS MUST HAVE WRITTEN APS CSR APPROVAL. FOLLOW DETAILS FOR CONSTRUCTION. VARIATIONS IN TRENCH ROUTE MAY RESULT IN A REDESIGN FEE.
9. CONTACT APS FOR ALL TRENCH AND CONDUIT SPECIFICATIONS AND REQUIREMENTS.
10. CONTRACTOR IS RESPONSIBLE FOR INTEGRITY OF ALL CONDUITS UNTIL APS HAS INSTALLED CONDUCTORS.
11. CONTRACTOR IS RESPONSIBLE FOR OBTAINING REQUIRED VARIANCES PRIOR TO SUBMITTING CIP DRAWINGS TO THE UTILITIES.
12. CONTRACTOR IS RESPONSIBLE FOR VERIFYING VERTICAL AND HORIZONTAL CLEARANCES TO EXISTING OVERHEAD LINES AND POLES WHEN PLACING NEW STREETLIGHTS.

GRAY ROADWAY LED STREETLIGHT POLE AND LUMINAIRE SPECIFICATIONS

ITEM NUMBER	TYPE OF STREET	QUANTITY	MOUNTING HEIGHT	POLE LENGTH	MAST ARM	APPROVED POLE & ARM MANUFACTURERS	LUMEN	TYPE	WATTAGE	VOLTAGE	LUMINAIRE STYLE	APPROVED LUMINAIRE MANUFACTURERS
(1)	LOCAL	8	25'-11"	30'-6"	6'	CEM-TEC MS-1936 VALMONT CB09158 SOUTHWEST FABRICATION, LLC 306RDB	4,700	LED	37 W	120/208/240/277 AS POWER CO. REQUIRES	COBRAHEAD	GENERAL ELECTRIC ERL1005A527AGRAY R
(3)	ARTERIAL	32	32'-11"	38'-6"	6'	CEM-TEC MS-1944 VALMONT CB09159 SOUTHWEST FABRICATION, LLC 386RDB	9,700	LED	87 W	120/208/240/277 AS POWER CO. REQUIRES	COBRAHEAD	GENERAL ELECTRIC ERL1010C527AGRAY
(4)	ARTERIAL	6	-	APS Utility	6'	-	9,700	LED	87 W	120/208/240/277 AS POWER CO. REQUIRES	COBRAHEAD	GENERAL ELECTRIC ERL1010C527AGRAY
(5)	ARTERIAL	2	39'-3"	38'-6"	8'	CEM-TEC MS-1944 VALMONT CB09159 SOUTHWEST FABRICATION, LLC 386RDB	9,700	LED	87 W	120/208/240/277 AS POWER CO. REQUIRES	COBRAHEAD	GENERAL ELECTRIC ERL1010C527AGRAY

ALL CATALOG NUMBERS SHALL BE CONFIRMED WITH POWER COMPANY PRIOR TO ORDERING

DARK BRONZE LED STREETLIGHT POLE AND LUMINAIRE SPECIFICATIONS

ITEM NUMBER	TYPE OF STREET	QUANTITY	MOUNTING HEIGHT	POLE LENGTH	MAST ARM	APPROVED POLE & ARM MANUFACTURERS	LUMEN	TYPE	WATTAGE	VOLTAGE	LUMINAIRE STYLE	APPROVED LUMINAIRE MANUFACTURERS
(3)	ARTERIAL	1	39'-3"	38'-6"	8'	CEM-TEC MS-1944 VALMONT CB09159 SOUTHWEST FABRICATION, LLC 386RDB	9,700	LED	87 W	120/208/240/277 AS POWER CO. REQUIRES	DKBZ LED	GENERAL ELECTRIC ERL1010C527ADKBZ

ALL CATALOG NUMBERS SHALL BE CONFIRMED WITH POWER COMPANY PRIOR TO ORDERING

REGISTERED PROFESSIONAL ENGINEER CERTIFICATE NO. 63352 ANDREW P. MORENO DATE Signed 5/28/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437-2	352	368	

05/2024 DATE: AZTEC TYPSA

DRAWN: DESIGN: CHECKED:

LEGEND

- NEW LUMINAIRE MOUNTED ON UTILITY POLE
- NEW LED COBRAHEAD LUMINAIRE WITH MAST ARM
- EXISTING STREET LIGHT MOUNTED ON UTILITY POLE
- EXISTING STREET LIGHT POLE

LED STREETLIGHT NOTES

1. PROTECT IN PLACE.
2. INSTALL ONE 87W LED (9,700 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38'-6" POLE WITH A 6' MAST ARM PER APS DETAIL AND SPECIFICATIONS. FOUNDATION AND GROUNDING PER APS STANDARDS AND SPECIFICATIONS. POLE SHALL BE CENTERED 1'-0" BEHIND BACK OF SIDEWALK OR 4'-0" BEHIND BACK OF CURB. INSTALL LUMINAIRE CONDUCTORS (2) #12 AWG (STRANDED) THHN/THWN WITH FUSE HOLDER ON HOT LEG 120/240 CIRCUIT. INSTALL PULL BOX ADJACENT POLE WITH 1" FLEX CONDUIT TO POLE PER APS SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.
3. INSTALL ONE 37W LED (4,700 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 30'-6" POLE WITH A 6' MAST ARM PER APS DETAIL AND SPECIFICATIONS. FOUNDATION AND GROUNDING PER APS STANDARDS AND SPECIFICATIONS. POLE SHALL BE CENTERED 1'-0" BEHIND BACK OF SIDEWALK OR 4'-0" BEHIND BACK OF CURB. INSTALL LUMINAIRE CONDUCTORS (2) #12 AWG (STRANDED) THHN/THWN WITH FUSE HOLDER ON HOT LEG 120/240 CIRCUIT. INSTALL PULL BOX ADJACENT POLE WITH 1" FLEX CONDUIT TO POLE PER APS SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.
4. INSTALL 6' MAST ARM AND 87W LED (9,700 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON EXISTING UTILITY POLE. CONNECT PER APS SPECIFICATIONS. INSTALLATION SHALL BE BY APS.
5. EXISTING STREETLIGHT, POLE AND ADJACENT JUNCTION BOX TO BE REMOVED. LUMINAIRE SHALL BE SALVAGED TO CITY OF PHOENIX STREETLIGHTING DEPARTMENT. POLE AND MAST ARM SHALL BE PROPERLY DISPOSED OF. CIRCUIT TO BE SPLICED OR TERMINATED PER APS SPECIFICATIONS.
6. NEW STREETLIGHT TO BE POWERED FROM COP/APS APPROVED OVERHEAD CONNECTION. CONTRACTOR TO COORDINATE CONNECTION WITH APS. SEE APS PLANS FOR ADDITIONAL INFORMATION.
7. EXISTING LUMINAIRE MOUNTED ON POWER POLE TO BE REMOVED. LUMINAIRE SHALL BE SALVAGED TO CITY OF PHOENIX STREETLIGHT DEPARTMENT. MAST ARM SHALL BE PROPERLY DISPOSED OF. CIRCUIT TO BE SPLICED OR TERMINATED PER APS SPECIFICATIONS. REMOVAL SHALL BE BY APS.
8. INSTALL ONE 87W LED (9,700 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38'-6" POLE WITH A 8 'MAST ARM PER APS DETAIL AND SPECIFICATIONS. FOUNDATION AND GROUNDING PER APS STANDARDS AND SPECIFICATIONS. POLE SHALL BE CENTERED 1'-0" BEHIND BACK OF SIDEWALK OR 4'-0" BEHIND BACK OF CURB. INSTALL LUMINAIRE CONDUCTORS (2) #12 AWG (STRANDED) THHN/THWN WITH FUSE HOLDER ON HOT LEG 120/240 CIRCUIT. INSTALL PULL BOX ADJACENT POLE WITH 1" FLEX CONDUIT TO POLE PER APS SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.
9. INSTALL ONE DKBZ LUMINAIRE 87W LED (9,700 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON A 38'-6" DKBZ SQUARE POLE WITH A 8' HIGH RISE MAST ARM PER APS DETAIL AND SPECIFICATIONS. FOUNDATION AND GROUNDING PER APS STANDARDS AND SPECIFICATIONS. POLE SHALL BE CENTERED 1'-0" BEHIND BACK OF SIDEWALK OR 4'-0" BEHIND BACK OF CURB. INSTALL LUMINAIRE CONDUCTORS (2) #12 AWG (STRANDED) THHN/THWN WITH FUSE HOLDER ON HOT LEG 120/240 CIRCUIT. INSTALL PULL BOX ADJACENT POLE WITH 1" FLEX CONDUIT TO POLE PER APS SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.
10. INSTALL ONE APS PULL BOX PER APS DETAILS AND SPECIFICATIONS.
11. INSTALL BACKSIDE SHIELD ON NEW LIGHT FIXTURE.

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

STREET LIGHT PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

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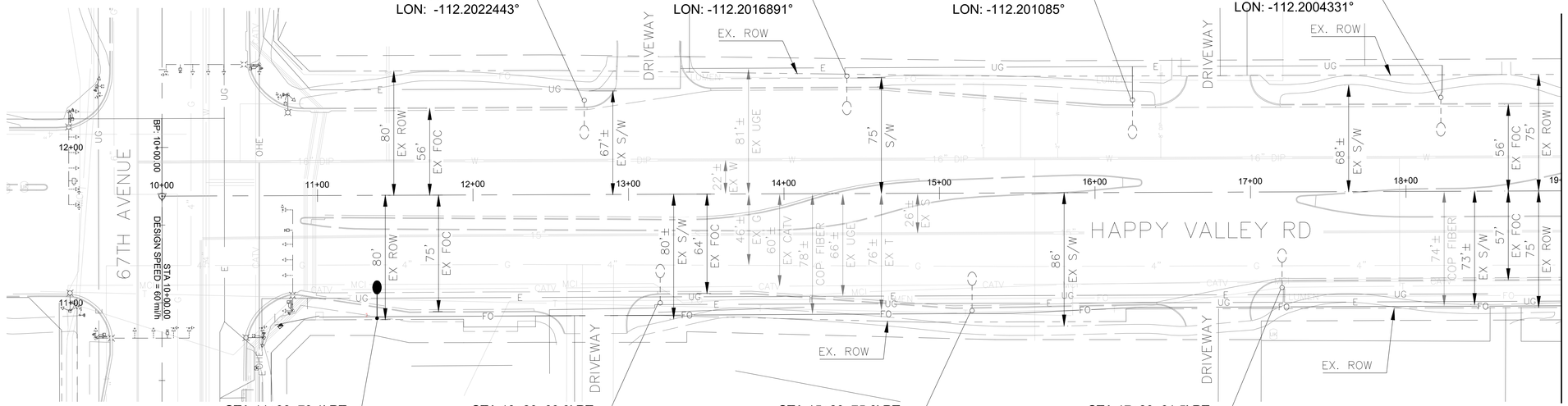
DR: HSY	DES: HSY	CK: APM	DWG. NO. SL-01
DATE:05/2024	DATE:05/2024	DATE:05/2024	
SCALE: N/A	HORIZONTAL		352 OF 364

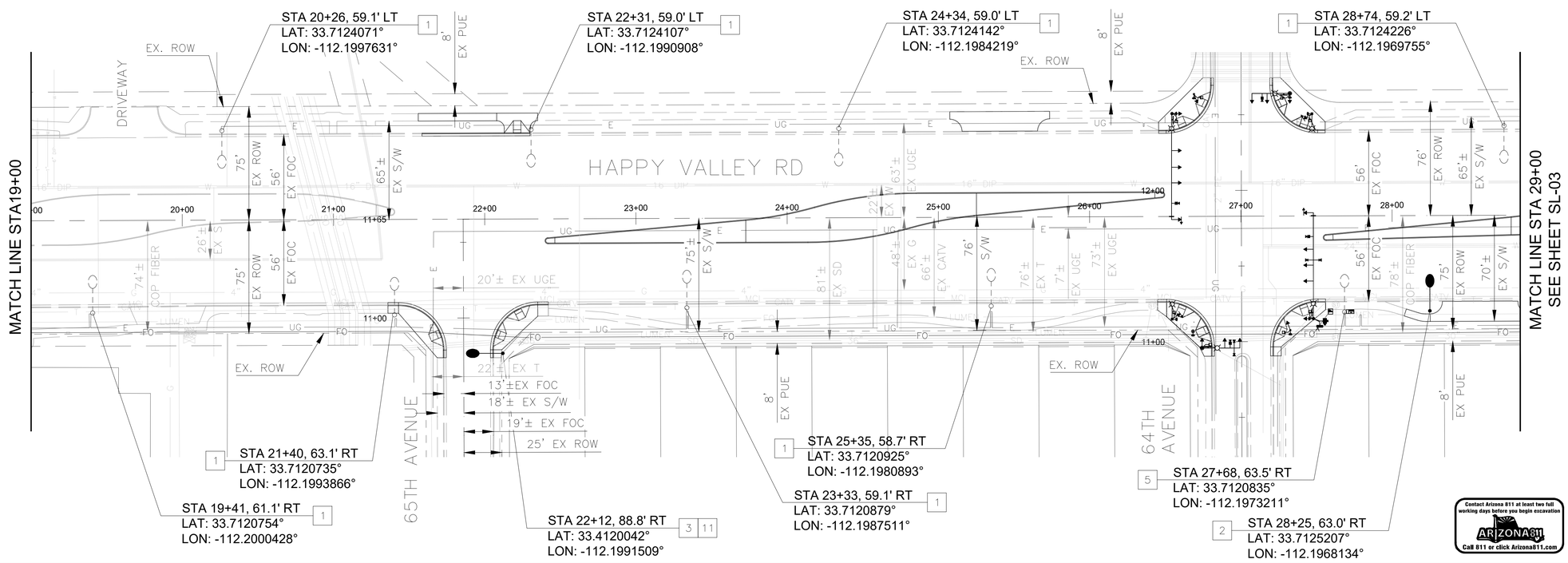
SHEET NAME: ST85100437LT-CS.DWG, PLOT DATE: 5/27/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix

N





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REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

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NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437-2	353	368	

63352 ANDREW P. MORENO — REGISTERED PROFESSIONAL ENGINEER CERTIFICATE NO. — Date Signed 5/28/2024

05/2024 DATE: AZTEC TYPSA

DRAWN: DESIGN: CHECKED:

STREETLIGHTING NOTES

NO	DESCRIPTION	UNIT	QTY
1	PROTECT IN PLACE.		
2	INSTALL ONE 87W LED (9,700 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON 38'-6" POLE WITH A 6' MAST ARM PER APS DETAILS AND SPECIFICATIONS. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL APS PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER APS SPECITICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.		
3	INSTALL ONE 37W LED (4,700 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON 30'-6" POLE WITH A 6' MAST ARM PER APS DETAILS AND SPECIFICATIONS. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.		
5	EXISTING STREETLIGHT, POLE AND ADJACENT JUNCTION BOX TO BE REMOVED. LUMINAIRE SHALL BE SALVAGED TO CITY OF PHOENIX STREETLIGHTING DEPARTMENT. POLE AND MAST ARM SHALL BE PROPERLY DISPOSED OF. CIRCUIT TO BE SPLICED OR TERMINATED PER APS SPECIFICATIONS.		
8	INSTALL ONE 87W LED (9,700 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON 38'-6" POLE WITH A 8' MAST ARM PER APS DETAILS AND SPECIFICATIONS. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL APS PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER APS SPECITICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.		
11	INSTALL BACKSIDE SHIELD ON NEW LIGHT FIXTURE.		

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

STREET LIGHT PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: HSY	DES: HSY	CK: APM	DWG. NO. SL-02
DATE:05/2024	DATE:05/2024	DATE:05/2024	
SCALE: 1" = 40' HORIZONTAL			353 OF 364

SHEET NAME: ST85100437LT-01.DWG, PLOT DATE: 5/27/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N

REGISTERED PROFESSIONAL ENGINEER CERTIFICATE NO. 63352 ANDREW P. MORENO DATE Signed 5/28/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437-2	354	368	

05/2024 DATE: AZTEC TYPSA
DRAWN: DESIGN: CHECKED:

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

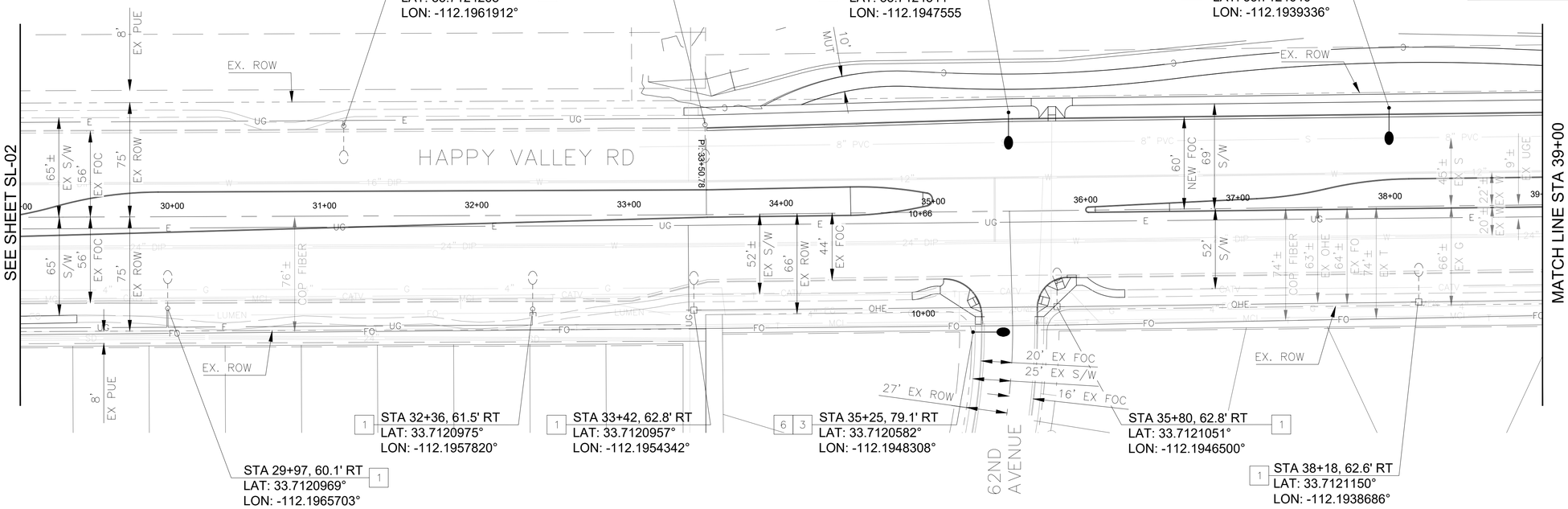
MATCH LINE STA 29+00
SEE SHEET SL-02

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LON: -112.1939336°



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MATCH LINE STA 39+00

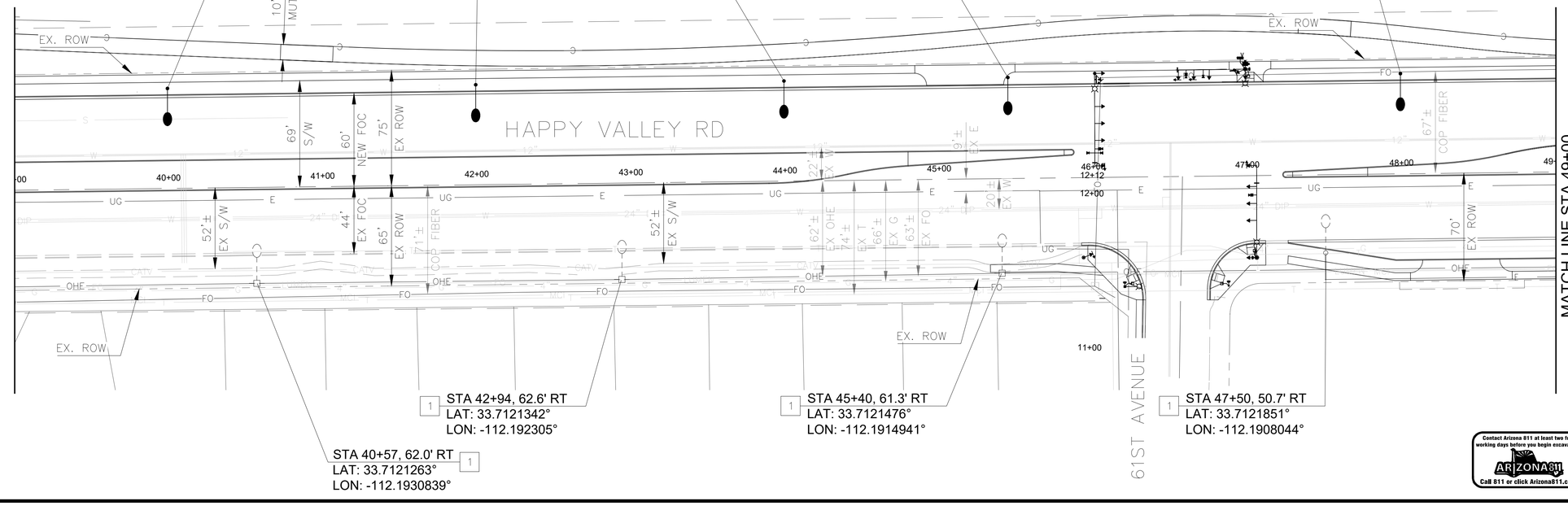
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1 STA 40+57, 62.0' RT
LAT: 33.7121263°
LON: -112.1930839°

1 STA 42+94, 62.6' RT
LAT: 33.7121342°
LON: -112.192305°

1 STA 45+40, 61.3' RT
LAT: 33.7121476°
LON: -112.1914941°

1 STA 47+50, 50.7' RT
LAT: 33.7121851°
LON: -112.1908044°

MATCH LINE STA 49+00
SEE SHEET SL-04

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

STREETLIGHTING NOTES

NO	DESCRIPTION	UNIT	QTY
1	PROTECT IN PLACE.		
2	INSTALL ONE 87W LED (9,700 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON 38'–6" POLE WITH A 6' MAST ARM PER APS DETAILS AND SPECIFICATIONS. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL APS PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER APS SPECITICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.		
3	INSTALL ONE 37W LED (4,700 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON 30'–6" POLE WITH A 6' MAST ARM PER APS DETAILS AND SPECIFICATIONS. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.		
6	NEW STREETLIGHT TO BE POWERED FROM COP/APS APPROVED OVERHEAD CONNECTION. CONTRACTOR TO COORDINATE CONNECTION WITH APS. SEE APS PLANS FOR ADDITIONAL INFORMATION.		

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STREET LIGHT PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

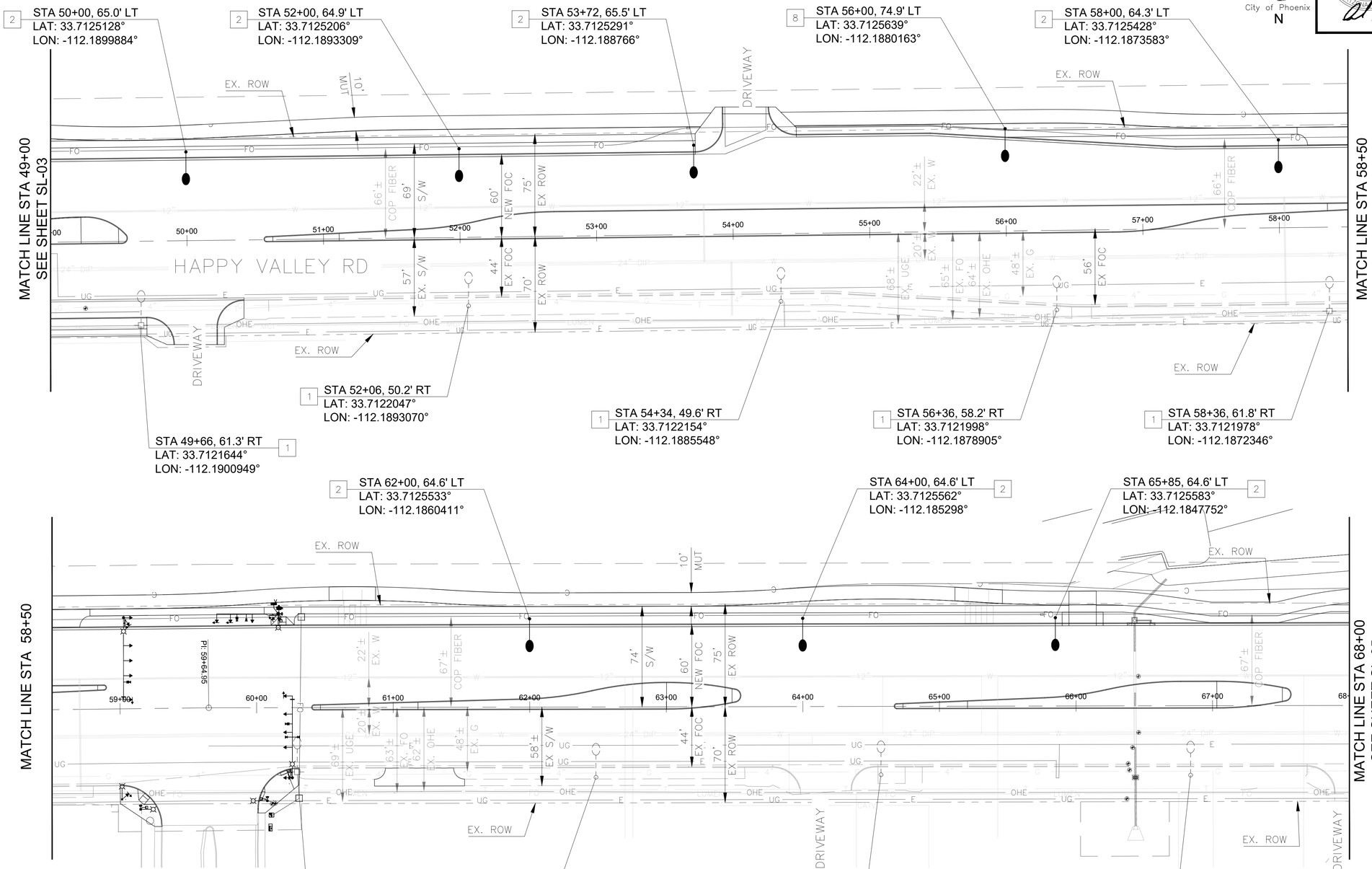
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: HSY	DES: HSY	CK: APM	DWG. NO. SL-03
DATE:05/2024	DATE:05/2024	DATE:05/2024	
SCALE: 1" = 40' HORIZONTAL			354 OF 364

SHEET NAME: ST85100437LT-02.DWG, PLOT DATE: 5/27/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437-2	355	368	

63352 ANDREW P. MORENO — REGISTERED PROFESSIONAL ENGINEER — CERTIFICATE NO. — Date Signed 5/28/2024

05/2024 DATE: AZTEC TYPSA

DRAWN: DESIGN: CHECKED:

STREETLIGHTING NOTES

NO	DESCRIPTION	UNIT	QTY
1	PROTECT IN PLACE.		
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7	EXISTING LUMINAIRE MOUNTED ON POWER POLE TO BE REMOVED. LUMINAIRE SHALL BE SALVAGED TO CITY OF PHOENIX STREETLIGHT DEPARTMENT. MAST ARM PROPERLY DISPOSED OF. CIRCUIT TO BE SPLICED OR TERMINATED PER APS SPECIFICATIONS. REMOVAL SHALL BE BY APS.		
8	INSTALL ONE 87W LED (9,700 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON 38'–6" POLE WITH A 8' MAST ARM PER APS DETAILS AND SPECIFICATIONS. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL APS PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER APS SPECIFICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.		

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ARIZONA811 Call 811 or click Arizona811.com

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STREET LIGHT PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: HSY	DES: HSY	CK: APM	DWG. NO. SL–04
DATE:05/2024	DATE:05/2024	DATE:05/2024	
SCALE: 1" = 40' HORIZONTAL			355 OF 364

SHEET NAME: ST85100437LT–03.DWG, PLOT DATE: 5/27/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N

REGISTERED PROFESSIONAL ENGINEER CERTIFICATE NO. 63352 ANDREW P. MORENO Date Signed 5/28/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437-2	356	368	

05/2024 DATE: AZTEC TYPSA
DRAWN: DESIGN: CHECKED:

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

MATCH LINE STA 68+00
SEE SHEET SL-04

STA 68+26, 64.6' LT [2]
LAT: 33.7125614°
LON: -112.1839821°

STA 70+26, 64.6' LT [2]
LAT:33.7125639°
LON: -112.1833253°

STA 72+51, 67.0' LT [1]
LAT: 33.7125734°
LON: -112.1825857°

STA 74+84, 68.4' LT [1]
LAT: 33.7125802°
LON: -112.1818192°

STA 77+39, 72.9' LT [1]
LAT: 33.7125958°
LON: -112.1809801°

HAPPY VALLEY RD

EX. ROW
10' MUT
68'± COP FIBER
28'± EX. UGE
22'± EX. W
72'± EX. CATV
69' S/W
60' NEW FOC
VARIES S/W
VARIES EX FOC
75' EX ROW
71'± COP FIBER
22'± EX. W
62'± EX. UGE
49'± EX. SD
72'± EX. CATV
67'± EX. UGE
65'± EX. FO
64'± EX. OHE
61'± EX. T
20'± EX. W
48'± EX. G
70' EX ROW
49' S/W
44' EX FOC
36'± EX. SD
48'± EX. G
45'± EX. T
20'± EX. W
54'± EX. OHE
51'± EX. T
55'± EX. SD
EX. FO
8' EX PUE
DRIVEWAY

STA 69+14, 49.7' RT [1]
LAT: 33.7122483°
LON: -112.1836904°

STA 71+37, 57.6' RT [1]
LAT: 33.7122296°
LON: -112.1829569°

STA 73+67, 54.2' RT [1]
LAT: 33.7122417°
LON: -112.1822013°

STA 76+03, 53.5' RT [1]
LAT: 33.7122468°
LON: -112.1814265°

MATCH LINE STA 78+00

STA 83+53, 151.5' LT [5]
LAT: 33.7132544°
LON: -112.1786377°

STA 79+53, 76.7' LT [1]
LAT: 33.7126090°
LON: -112.1802780°

STA 81+93, 88.7' LT [1]
LAT: 33.7126452°
LON: -112.1794889°

STA 83+56, 147.5' LT [2]
LAT: 33.7132435°
LON: -112.1786293°

STA 86+41, 61.9' LT [1]
LAT: 33.7125795°
LON: -112.1780152°

HAPPY VALLEY RD

72'± COP FIBER
49'± EX. SD
72'± EX. CATV
62'± EX. UGE
72' EX FOC
83'± EX S/W
20'± EX. W
48'± EX. G
45'± EX. T
55'± EX. FO
54'± EX. OHE
51'± EX. T
70'± EX S/W
PI: 85+16.69
72'± COP FIBER
75' EX ROW
57' EX FOC
71'± EX S/W
55' EX ROW
37' EX FOC
42'± EX S/W
8' EX PUE

STA 78+34, 53.7' RT [1]
LAT: 33.7122493°
LON: -112.1806669°

STA 80+64, 53.5' RT [1]
LAT: 33.7122528°
LON: -112.1799096°

55TH AVENUE

STA 85+27, 52.4' RT [1]
LAT: 33.7122617°
LON: -112.1783859°

STA 87+50, 53.7' RT [1]
LAT: 33.7122654°
LON: -112.1776522°

MATCH LINE STA 98+00
SEE SHEET SL-06

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ARIZONA811
Call 811 or click Arizona811.com

STREETLIGHTING NOTES

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2	INSTALL ONE 87W LED (9,700 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON 38'–6" POLE WITH A 6' MAST ARM PER APS DETAILS AND SPECIFICATIONS. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL APS PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER APS SPECITICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.		
5	EXISTING STREETLIGHT, POLE AND ADJACENT JUNCTION BOX TO BE REMOVED. LUMINAIRE SHALL BE SALVAGED TO CITY OF PHOENIX STREETLIGHTING DEPARTMENT. POLE AND MAST ARM SHALL BE PROPERLY DISPOSED OF. CIRCUIT TO BE SPLICED OR TERMINATED PER APS SPECIFICATIONS.		

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STREET LIGHT PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: HSY	DES: HSY	CK: APM	DWG. NO. SL–05
DATE:05/2024	DATE:05/2024	DATE:05/2024	
SCALE: 1" = 40' HORIZONTAL			356 OF 364

SHEET NAME: ST85100437LT–04.DWG, PLOT DATE: 5/27/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N

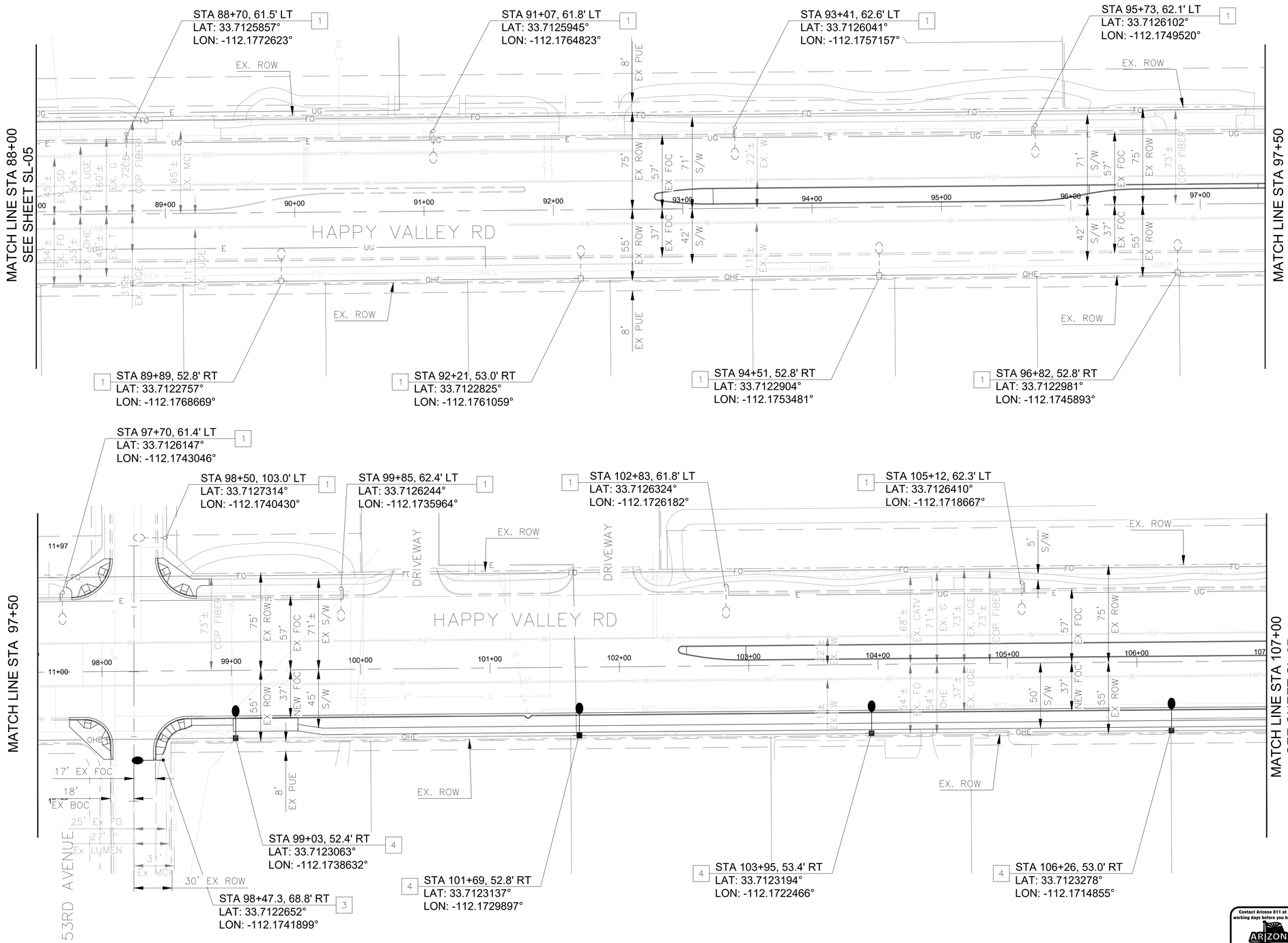
63352
ANDREW P. MORENO
REGISTERED PROFESSIONAL ENGINEER CERTIFICATE NO.
Date Signed 5/28/2024
ARIZONA U.S.A.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437-2	357	368	

05/2024 DATE: AZTEC TYPSA
DRAWN: DESIGN: CHECKED:

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



STREETLIGHTING NOTES

NO	DESCRIPTION	UNIT	QTY
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4	INSTALL 6' MAST ARM AND 87W (9,700 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON EXISTING UTILITY POLE. CONNECT PER APS SPECIFICATIONS. INSTALLATION SHALL BE BY APS.		

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STREET LIGHT PLANS

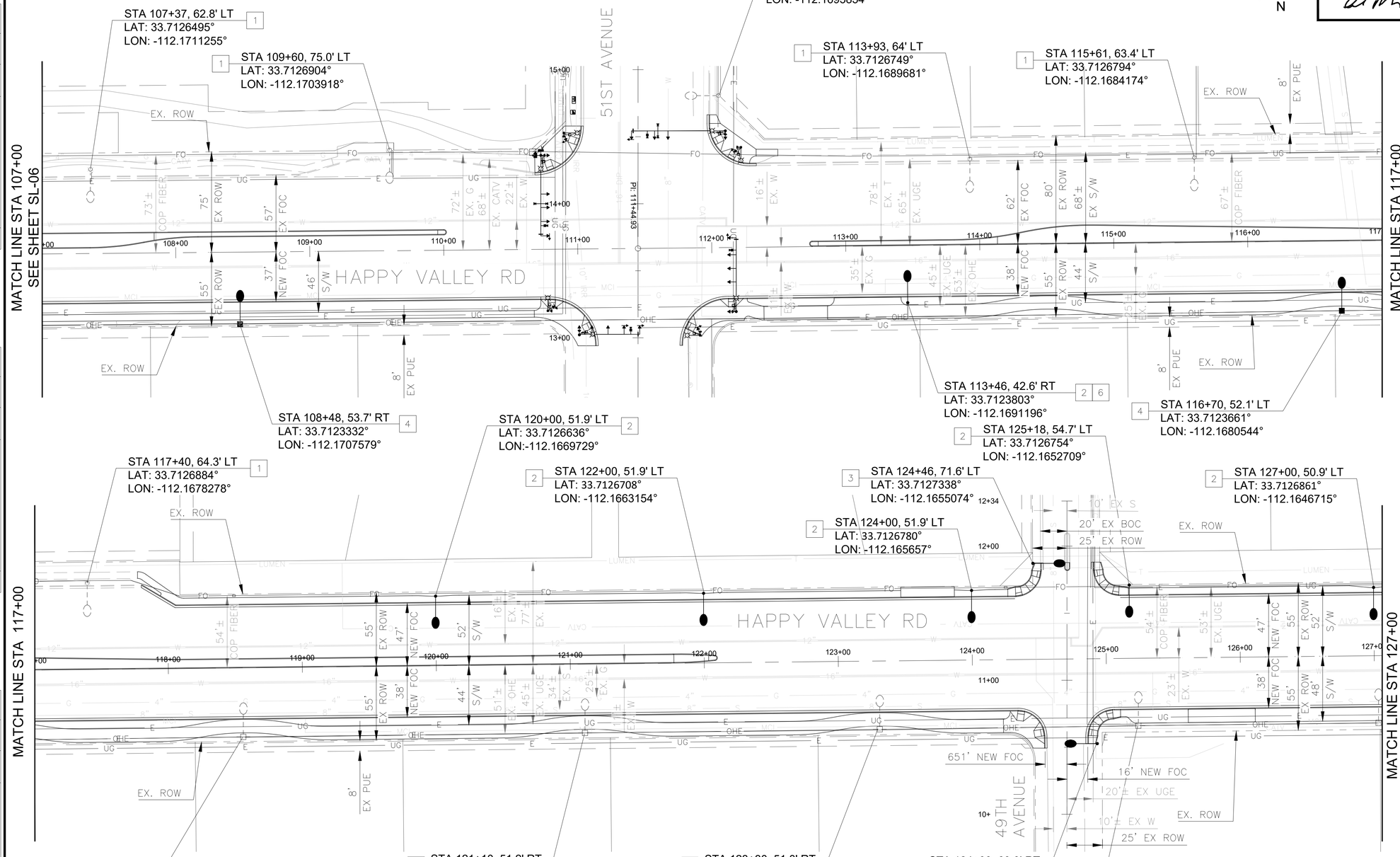
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: HSY	DES: HSY	CK: APM	DWG. NO. SL–06
DATE:05/2024	DATE:05/2024	DATE: 05/2024	
SCALE: 1" = 40' HORIZONTAL			357 OF 364

SHEET NAME: ST85100437LT–05.DWG, PLOT DATE: 5/27/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437-2	358	368	

63352 ANDREW P. MORENO — Date Signed 5/28/2024

05/2024 DATE: AZTEC TYPSA

DRAWN: DESIGN: CHECKED:

STREETLIGHTING NOTES

NO	DESCRIPTION	UNIT	QTY
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STREET LIGHT PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

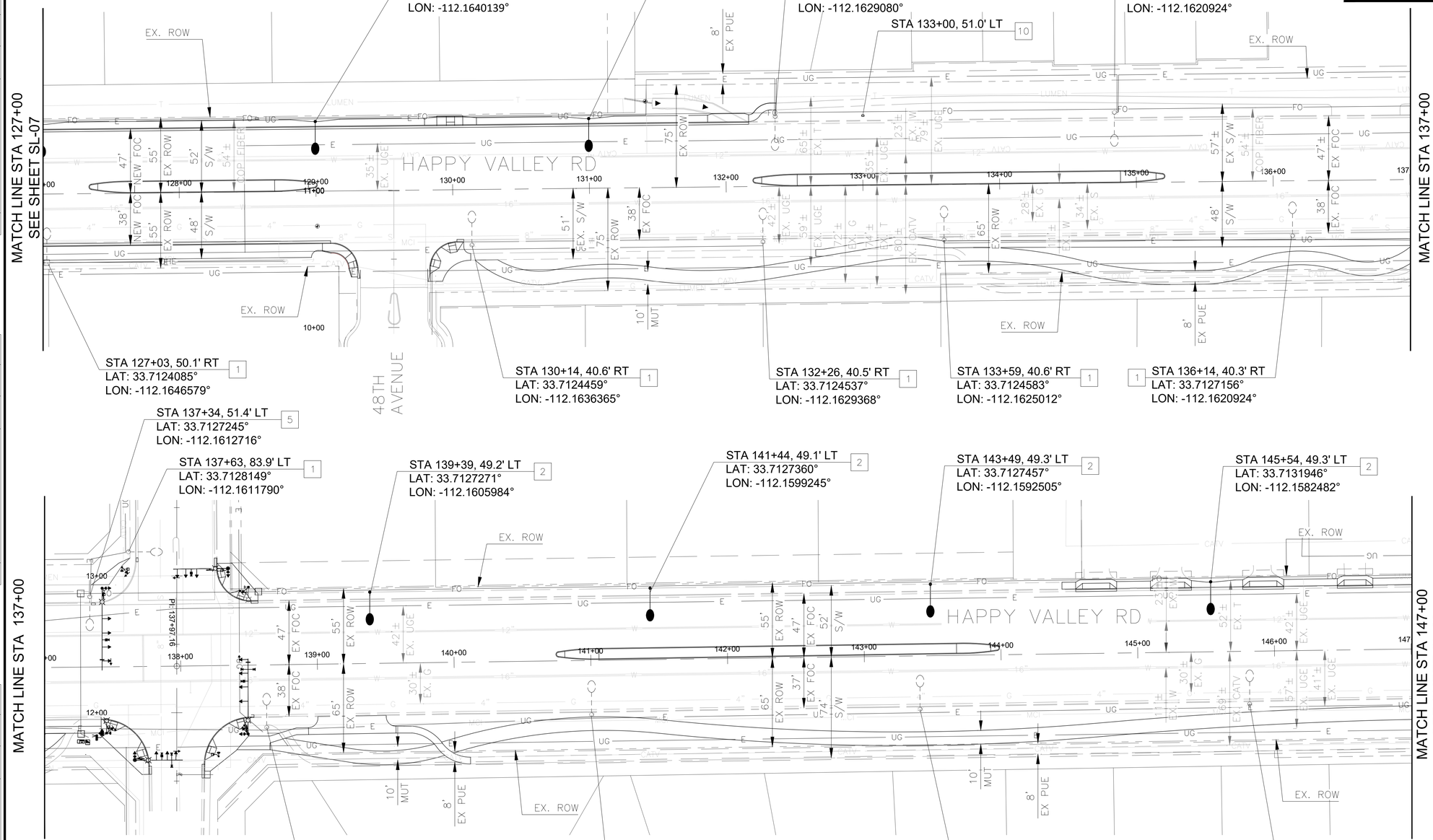
HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: HSY	DES: HSY	CK: APM	DWG. NO. SL-07
DATE:05/2024	DATE:05/2024	DATE: 05/2024	
SCALE: 1" = 40' HORIZONTAL			358 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
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Call 811 or click Arizona811.com

SHEET NAME: ST85100437LT-06.DWG, PLOT DATE: 5/27/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

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F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437-2	359	368	

05/2024 DATE:
AZTEC TYPSA
DRAWN: DESIGN: CHECKED:

63352 ANDREW P. MORENO REGISTERED PROFESSIONAL ENGINEER CERTIFICATE NO. DATE Signed 5/28/2024

STREETLIGHTING NOTES

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STREET LIGHT PLANS

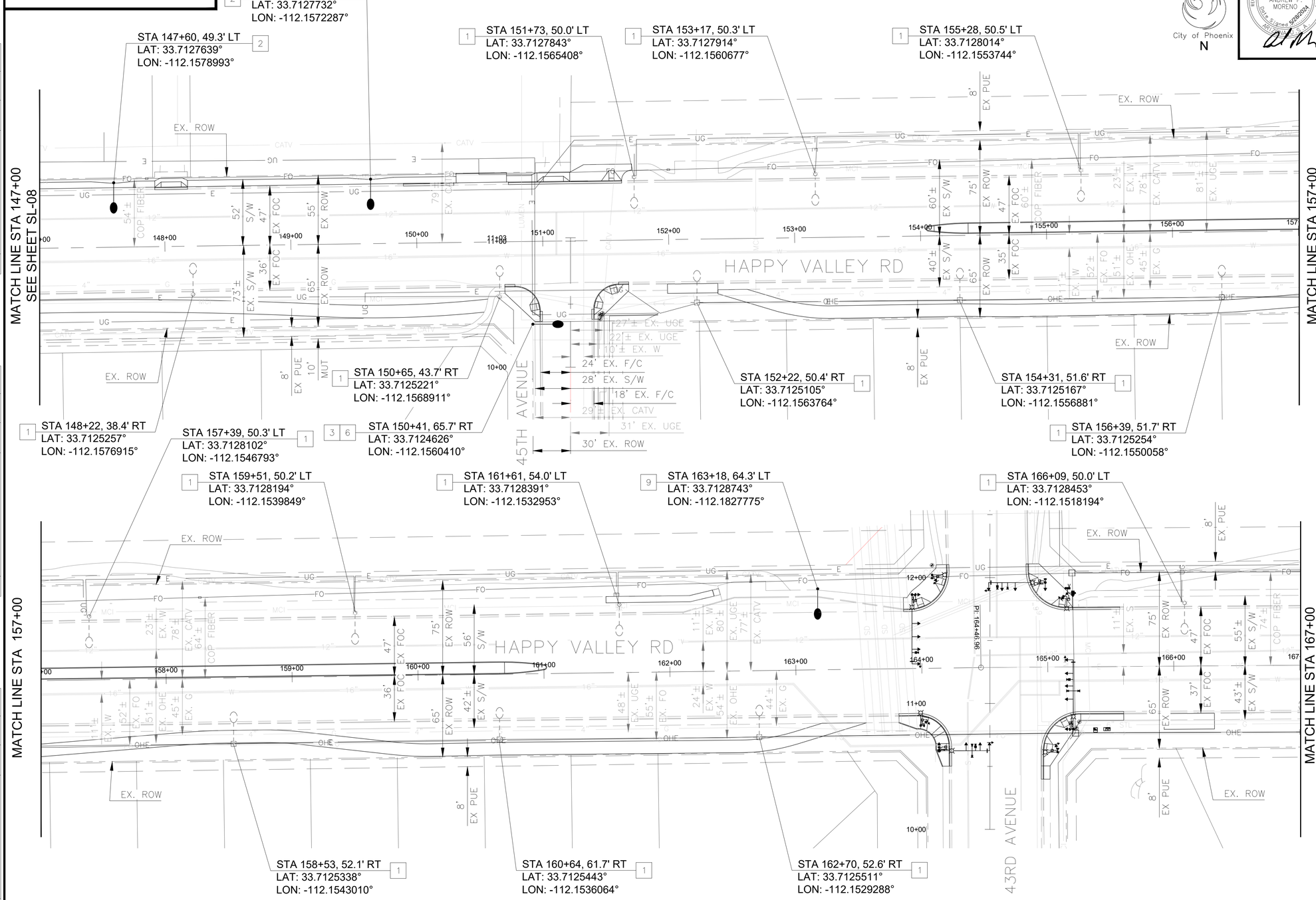
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: HSY	DES: HSY	CK: APM	DWG. NO. SL-08
DATE:05/2024	DATE:05/2024	DATE:05/2024	
SCALE: 1" = 40' HORIZONTAL			359 OF 364

SHEET NAME: ST85100437LT-07.DWG, PLOT DATE: 5/27/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.



City of Phoenix
N

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437-2	360	368	

05/2024 DATE: AZTEC TYPSA
DRAWN: DESIGN: CHECKED:

63352 ANDREW P. MORENO REGISTERED PROFESSIONAL ENGINEER CERTIFICATE NO. DATE SIGNED 5/28/2024

STREETLIGHTING NOTES

NO	DESCRIPTION	UNIT	QTY
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6	NEW STREETLIGHT TO BE POWERED FROM COP/APS APPROVED OVERHEAD CONNECTION. CONTRACTOR TO COORDINATE CONNECTION WITH APS. SEE APS PLANS FOR ADDITIONAL INFORMATION.		
9	INSTALL ONE DKBZ LUMINAIRE 87W LED (9,700 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON 38'–6" DKBZ SQUARE POLE WITH A 8' HIGH RISE MAST ARM PER APS DETAILS AND SPECIFICATIONS. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. INSTALL APS PULL BOX ADJACENT TO POLE WITH 1" FLEX CONDUIT TO POLE PER APS SPECITICATIONS AND REQUIREMENTS. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.		

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STREET LIGHT PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: HSY	DES: HSY	CK: APM	DWG. NO. SL–09
DATE:05/2024	DATE:05/2024	DATE:05/2024	
SCALE: 1" = 40' HORIZONTAL			360 OF 364

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

SHEET NAME: ST85100437LT–08.DWG, PLOT DATE: 5/27/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix

N

REVISION BY CITY OF PHOENIX

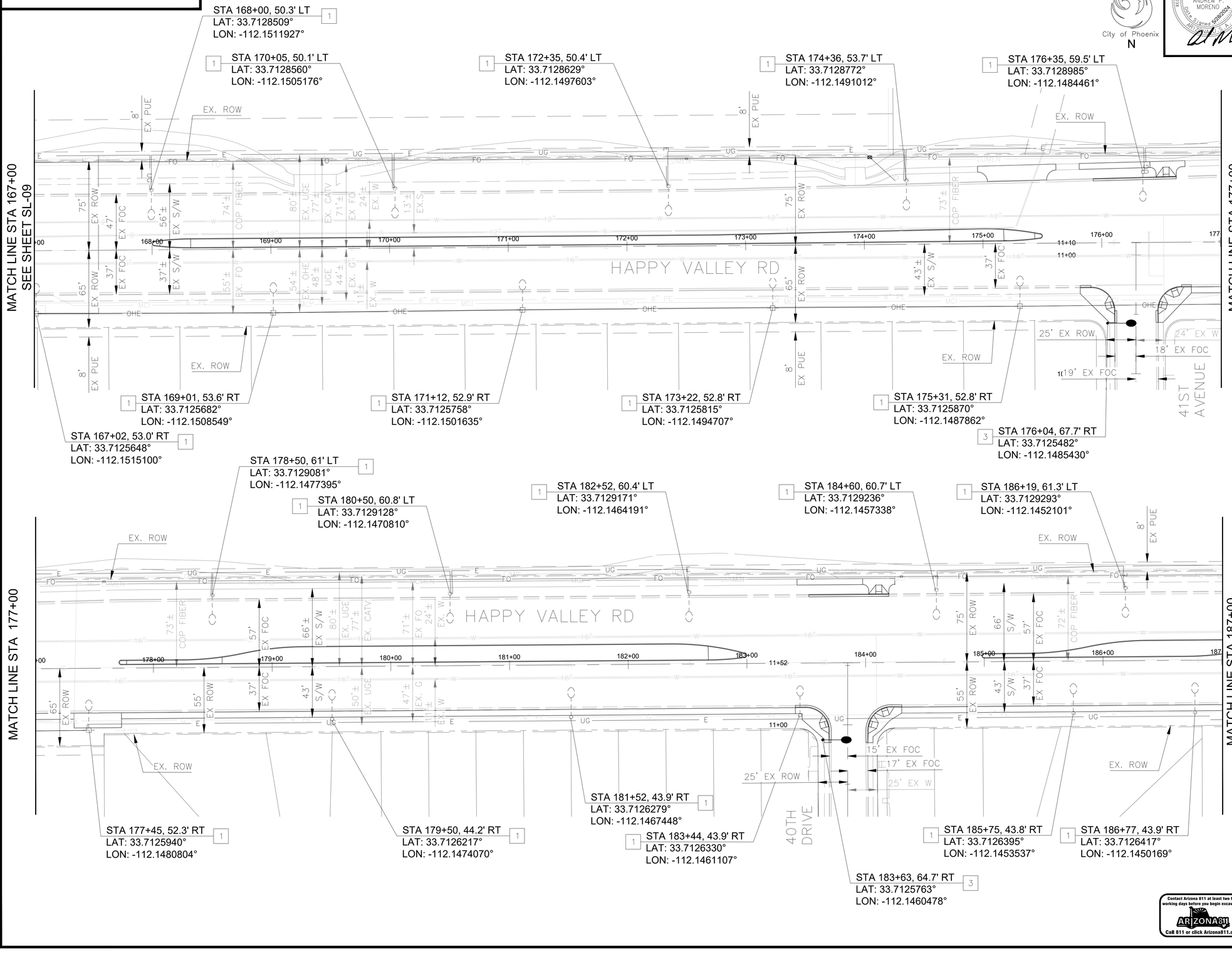
NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE



STA 168+00, 50.3' LT
LAT: 33.7128509°
LON: -112.1511927°

STA 170+05, 50.1' LT
LAT: 33.7128560°
LON: -112.1505176°

STA 172+35, 50.4' LT
LAT: 33.7128629°
LON: -112.1497603°

STA 174+36, 53.7' LT
LAT: 33.7128772°
LON: -112.1491012°

STA 176+35, 59.5' LT
LAT: 33.7128985°
LON: -112.1484461°

STA 169+01, 53.6' RT
LAT: 33.7125682°
LON: -112.1508549°

STA 171+12, 52.9' RT
LAT: 33.7125758°
LON: -112.1501635°

STA 173+22, 52.8' RT
LAT: 33.7125815°
LON: -112.1494707°

STA 175+31, 52.8' RT
LAT: 33.7125870°
LON: -112.1487862°

STA 176+04, 67.7' RT
LAT: 33.7125482°
LON: -112.1485430°

STA 167+02, 53.0' RT
LAT: 33.7125648°
LON: -112.1515100°

STA 178+50, 61' LT
LAT: 33.7129081°
LON: -112.1477395°

STA 180+50, 60.8' LT
LAT: 33.7129128°
LON: -112.1470810°

STA 182+52, 60.4' LT
LAT: 33.7129171°
LON: -112.1464191°

STA 184+60, 60.7' LT
LAT: 33.7129236°
LON: -112.1457338°

STA 186+19, 61.3' LT
LAT: 33.7129293°
LON: -112.1452101°

STA 177+45, 52.3' RT
LAT: 33.7125940°
LON: -112.1480804°

STA 179+50, 44.2' RT
LAT: 33.7126217°
LON: -112.1474070°

STA 181+52, 43.9' RT
LAT: 33.7126279°
LON: -112.1467448°

STA 183+44, 43.9' RT
LAT: 33.7126330°
LON: -112.1461107°

STA 183+63, 64.7' RT
LAT: 33.7125763°
LON: -112.1460478°

STA 185+75, 43.8' RT
LAT: 33.7126395°
LON: -112.1453537°

STA 186+77, 43.9' RT
LAT: 33.7126417°
LON: -112.1450169°

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437-2	361	368	

63352
ANDREW P. MORENO
REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE NO.
DATE SIGNED 5/28/2024

05/2024 DATE: AZTEC TYPSA

DRAWN: DESIGN: CHECKED:

STREETLIGHTING NOTES

NO	DESCRIPTION	UNIT	QTY
1	PROTECT IN PLACE.		
3	INSTALL ONE 37W LED (4,700 LUMEN) FIXTURE WITH PHOTOELECTRIC CONTROL ON 30'–6" POLE WITH A 6' MAST ARM PER APS DETAILS AND SPECIFICATIONS. INSTALL (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE. ALL WIRING, FUSING, AND GROUNDING PER APS DETAILS AND SPECIFICATIONS.		

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

STREET LIGHT PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR:	DES:	CK:	DWG. NO.
HSY DATE:05/2024	HSY DATE:05/2024	APM DATE:05/2024	SL–10
SCALE: 1" = 40' HORIZONTAL			361 OF 364

SHEET NAME: ST85100437LT–09.DWG, PLOT DATE: 5/27/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N

REGISTERED PROFESSIONAL ENGINEER CERTIFICATE NO. 63352 ANDREW P. MORENO DATE SIGNED 5/28/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437-2	362	368	

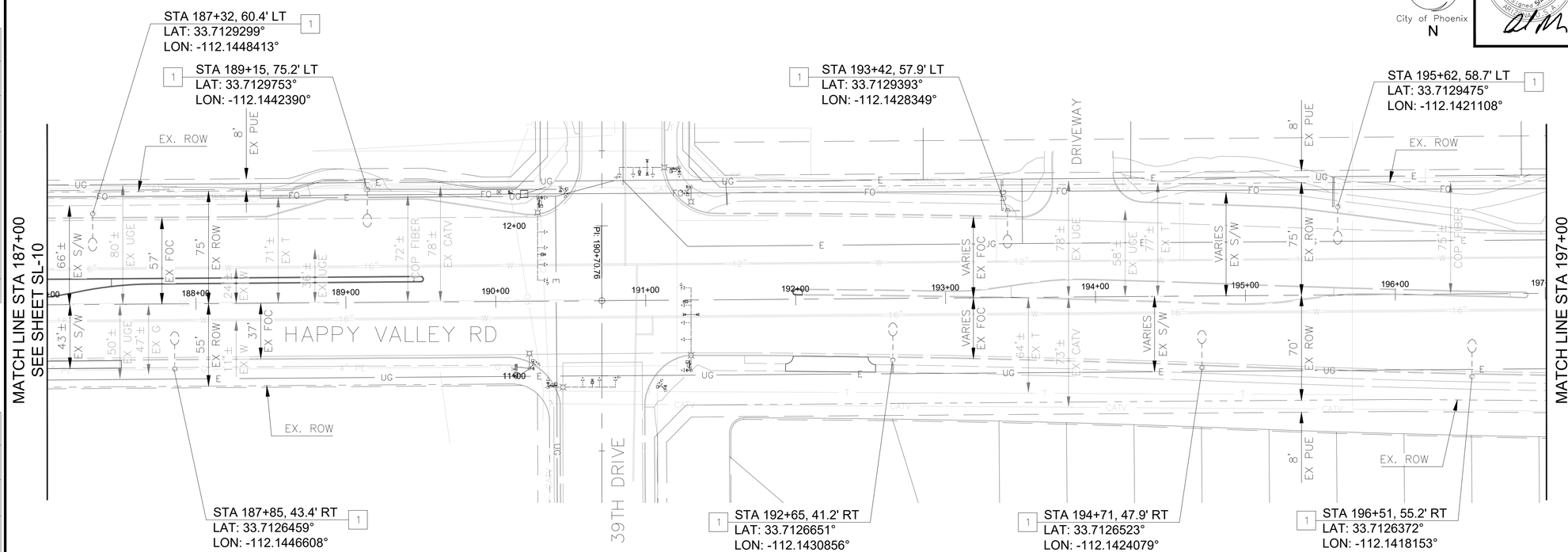
05/2024 DATE: AZTEC TYPSA
DRAWN: DESIGN: CHECKED:

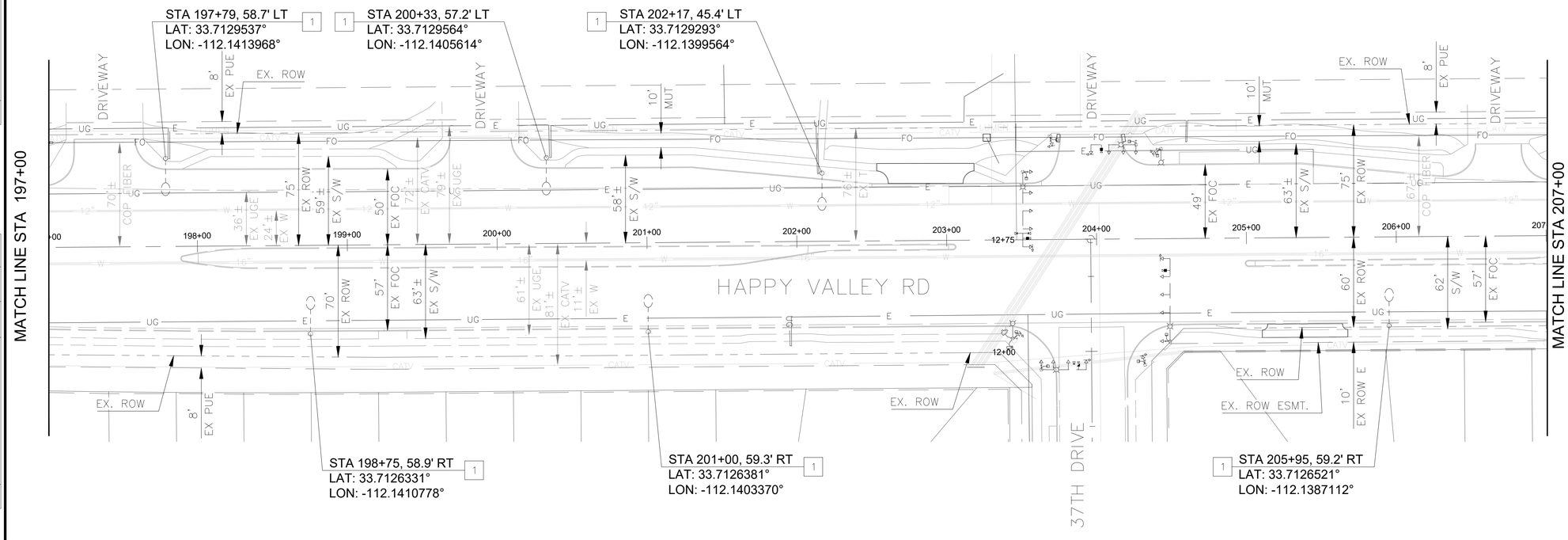
REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

STREETLIGHTING NOTES

NO	DESCRIPTION	UNIT	QTY
1	PROTECT IN PLACE.		





Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

STREET LIGHT PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: HSY	DES: HSY	CK: APM	DWG. NO. SL-11
DATE:05/2024	DATE:05/2024	DATE:05/2024	
SCALE: 1" = 40' HORIZONTAL			362 OF 364

SHEET NAME: ST85100437LT-10.DWG, PLOT DATE: 5/27/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

City of Phoenix
N

REGISTERED PROFESSIONAL ENGINEER CERTIFICATE NO. 63352 ANDREW P. MORENO DATE Signed 5/28/2024

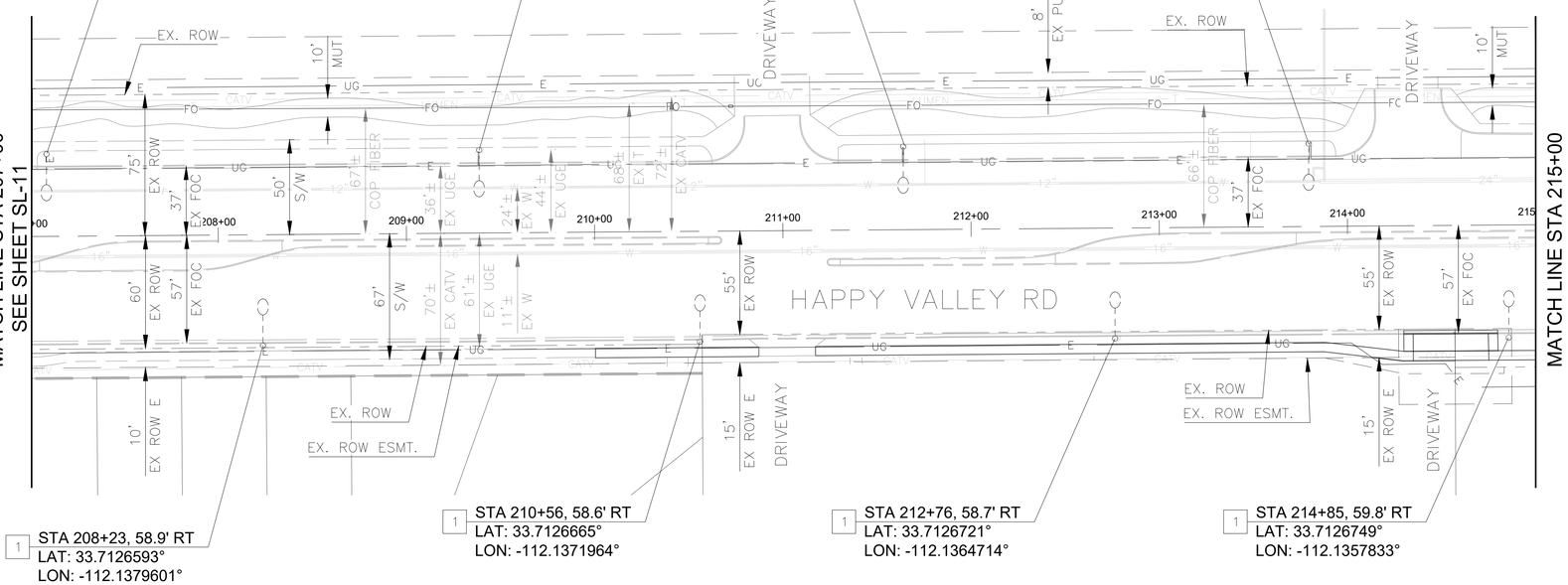
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437-2	363	368	

05/2024 DATE: AZTEC TYPSA
DRAWN: DESIGN: CHECKED:

REVISION BY CITY OF PHOENIX

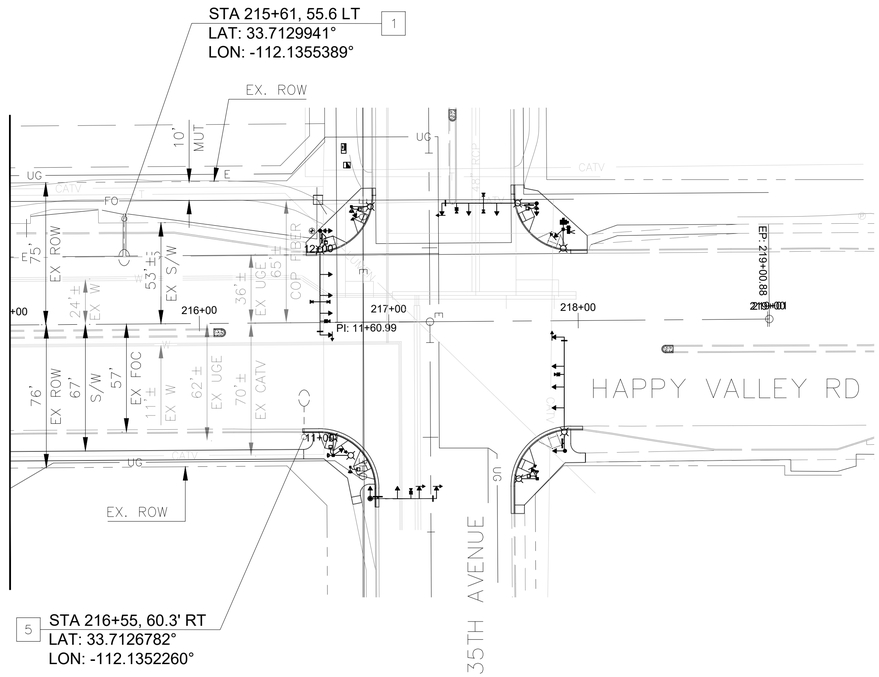
NO.	DESCRIPTION	REV BY	CKD BY	DATE

MATCH LINE STA 207+00
SEE SHEET SL-11



MATCH LINE STA 215+00

MATCH LINE STA 215+00



NO.	DESCRIPTION	UNIT	QTY
	STREETLIGHTING NOTES		
1	PROTECT IN PLACE.		
5	EXISTING STREETLIGHT, POLE AND ADJACENT JUNCTION BOX TO BE REMOVED. LUMINAIRE SHALL BE SALVAGED TO CITY OF PHOENIX STREETLIGHTING DEPARTMENT. POLE AND MAST ARM SHALL BE PROPERLY DISPOSED OF. CIRCUIT TO BE SPLICED OR TERMINATED PER APS SPECIFICATIONS.		

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

STREET LIGHT PLANS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

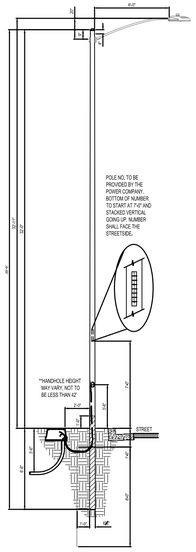
Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

DR: HSY	DES: HSY	CK: APM	DWG. NO. SL-12
DATE:05/2024	DATE:05/2024	DATE:05/2024	
SCALE: 1" = 40' HORIZONTAL			363 OF 364

SHEET NAME: ST85100437LT-11.DWG, PLOT DATE: 5/27/2024

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.		364A	368

DR: | DES: | CK: | DATE:



1944.__

19 = 19' - 0" POLE SNG SIMPLEX
30 = 30' - 6" POLE SNG SIMPLEX
38 = 38' - 6" POLE SNG SIMPLEX
38X = 38' - 6" POLE DBL SIMPLEX
** SEE SPEC. NOTE

CONSTRUCTION NOTES:

1 **ADJUST PHOTO EYE TO FACE NORTH**

2 **A GROUND ROD IS PROVIDED WITH THE JUNCTION BOX. WHERE A GROUND ROD CANNOT BE DRIVEN ALTERNATE GROUND SHALL BE USED. SEE 2449 THRU 2460 FOR APPROVED ALTERNATES.**

3 **THE 40'-6" SELF-SUPPORTING STEEL POLE AND ONE OF THE 38'-0", HAVE TWO, MANUFACTURED INSTALLED SIMPLEX FITINGS 180 APART FOR DOUBLE ARMS, SEE CHART.**

4 **APN 33701054 IS A POLE BAND ADAPTOR WITH A SIMPLEX FITTING. ADAPTOR IS REQUIRED FOR THE SECOND ARM IN DOUBLE ARM APPLICATIONS ON EXISTING PLES IN THE FIELD WITHOUT TWO SIMPLEX FITTINGS. SEE 8198 FOR AVAILABLE SIZES.**

5 **POLES THAT HAVE MORE THAN ONE LUMINAIRE REQUIRE A SEPARATE CIRCUIT WITH FUSING FROM THE J-BOX TO EACH LUMINAIRE.**

ENGINEERING NOTES:

A **THE LIGHT CODE PROVIDES TWO SAME WATTAGE LUMINAIRES WHEN DOUBLE ARM ARE SPECIFIED.**

B **SEE SPEC 8130 - 8131 FOR IN-LINE FUSE FOR UNDERGROUND FEEDS.**

C **SEE 8100 THRU 8107 FOR OVERHEAD ATTACHMENTS.**

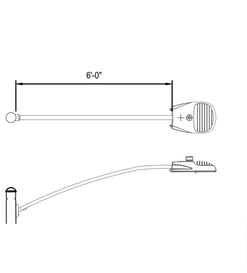
LIGHT CODE	COLOR	APN	TYPE	WATTS	MULTIVOLT	INITIAL LUMENS	PHOTOMETRIC CURVE
CL60	GRAY	00128329	LED	29	120/208/240/277 DRIVER	3,800	454669
CL61		00128330		37	120/208/240/277 DRIVER	4,700	454659
CL62		00128331		68	120/208/240/277 DRIVER	8,000	454677
CL63		00128332		87	120/208/240/277 DRIVER	9,700	454688
CL64		00128364		140	120/208/240/277 DRIVER	16,900	454942

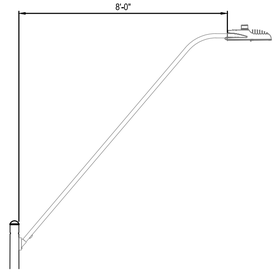
POLE TYPE	POLE CODE	POLE LENGTH	BURY DEPTH	POLE ABOVE GROUND	POLE BUTT DIAMETER			LUMINAIRE HEIGHT ABOVE GROUND ON ARM		
					STEP	TAPER	WEIGHT	20' X 6'	3' X 8'	8' X 8'
LOCAL	1944.30	30' - 6"	5' - 6"	25' - 0"	5-9/16"	7-5/16"	460	25' - 11"	27' - 3"	-
ARTERIAL	1944.38X	38' - 6"	6' - 6"	32' - 0"	6-5/8"	9-3/4"	640	32' - 11"	34' - 3"	39' - 3"

**FOR NON-STANDARD POLES, CONTACT THE STREET TRANSPORTATION STREETLIGHTING SECTION FOR INFORMATION.

GRAY ROADWAY POLE STANDARDS

1/4"=1'-0"





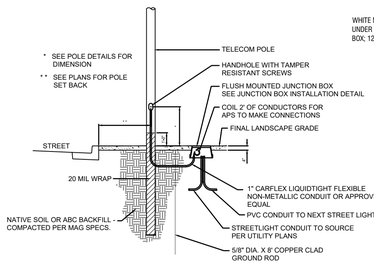
GRAY ROADWAY POLE LUMINAIRES

3/8"=1'-0"

GRAY ROADWAY LUMINAIRE DESCRIPTIONS

APN# 128330
37W LED RWGR - LOCAL
ERL1005A527A GRAY

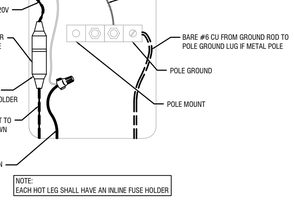
APN# 128332
87W LED RWGR - ARTERIAL
ERL1010C527A GRAY



TELECOM POLE GROUNDING DETAIL

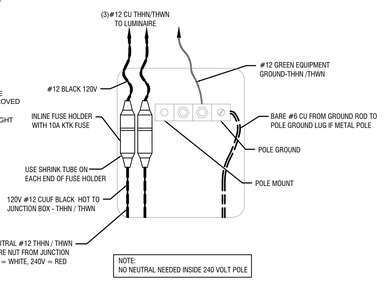
POLE GROUNDING DETAIL

3/16"=1'-0"



NOTE:
EACH HOT LEG SHALL HAVE AN INLINE FUSE HOLDER

POLE HAND HOLE - 110V FUSING AND GROUNDING DETAIL



NOTE:
NO NEUTRAL NEEDED INSIDE 240 VOLT POLE

POLE HAND HOLE - 240V FUSING AND GROUNDING DETAIL

POLE HAND HOLE FUSING DETAIL

3/16"=1'-0"

ELECTRICAL REQUIREMENTS FOR NEW POLE INSTALLATION

1. JUNCTION BOXES SHALL MEET UTILITY COMPANY STANDARDS.
2. CONDUIT, CONDUCTORS, AND FUSE HOLDERS SHALL BE LISTED AND LABELED FOR USE IN A WET LOCATION WHEN USED IN A JUNCTION BOX. NEC300.5(B), 310.8(C)
3. IN-LINE FUSE HOLDER USED IN HAND HOLE OR SERVICE DROP SHALL BE CONSIDERED AS DISCONNECTING MEANS, FUSE HOLDERS TO BE RATED AT 22,000 AIC MINIMUM, NEC 240.40
4. ELECTRICAL CONNECTIONS-CONDUCTORS OF DISSIMILAR METALS SHALL NOT BE INTERMIXED IN A TERMINAL OR SPLICING CONNECTOR WHERE PHYSICAL CONTACT OCCURS BETWEEN DISSIMILAR CONDUCTORS. (COPPER, ALUMINUM) UNLESS THE DEVICE IS IDENTIFIED FOR THE PURPOSE AND CONDITIONS OF USE. NEC 110.14
5. ELECTRICAL CONNECTIONS OR SPLICES IN AN UNDERGROUND INSTALLATION SHALL BE APPROVED FOR WET LOCATIONS. (NEC 300.5)
6. NON-CURRENT CARRYING CONDUCTIVE MATERIALS ENCLOSING ELECTRICAL CONDUCTORS OR EQUIPMENT, OR FORMING PART OF SUCH EQUIPMENT, SHALL BE CONNECTED TO EARTH IN A MANNER THAT WILL LIMIT THE VOLTAGE IMPOSED BY LIGHTNING OR UNINTENTIONAL VOLTAGE DUE TO SHORT CIRCUITS AND LIMIT THE VOLTAGE TO GROUND ON THESE MATERIALS. NEC 250.4(B) (GROUND RODS)
7. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED FROM THE GROUND LUG IN THE HAND-HOLE TO THE LUMINAIRE WITH THE CURRENT CARRYING CONDUCTORS. NEC 410.30(B)(3).
8. CONNECTION TO THE GROUND ROD AND THE GROUNDING ELECTRODE SHALL BE LISTED AND LABELED FOR USE. NEC 250.8
9. CONNECT #6 BARE COPPER WIRE FROM THE GROUND ROD ADJACENT TO THE POLE OR IN JUNCTION BOX TO THE GROUND LUG IN THE POLE.

CONSTRUCTION NOTES:

1 ADJUST PHOTO EYE TO FACE NORTH

2 A GROUND ROD IS PROVIDED WITH THE JUNCTION BOX. WHERE A GROUND ROD CANNOT BE DRIVEN ALTERNATE GROUND SHALL BE USED. SEE 2449THRU 2460 FOR APPROVED ALTERNATES.

3 THE 40'-6" SELF-SUPPORTING STEEL POLE AND ONE OF THE 38'-0", HAVE TWO, MANUFACTURED INSTALLED SIMPLEX FITINGS 180 APART FOR DOUBLE ARMS,SEE CHART.

4 APN 33701054 IS A POLE BAND ADAPTOR WITH A SIMPLEX FITTING. ADAPTOR IS REQUIRED FOR THE SECOND ARM IN DOUBLE ARM APPLICATIONS ON EXISTING POLES IN THE FIELD WITHOUT TWO SIMPLEX FITTINGS. SEE 8198 FOR AVAILABLE SIZES.

5 POLES THAT HAVE MORE THAN ONE LUMINAIRE REQUIRE A SEPARATE CIRCUIT WITH FUSING FROM THE J-BOX TO EACH LUMINAIRE.

ENGINEERING NOTES:

A THE LIGHT CODE PROVIDES TWO SAME WATTAGE LUMINAIRES WHEN DOUBLE ARM ARE SPECIFIED.

B SEE SPEC 8130 - 8131 FOR IN-LINE FUSE FOR UNDERGROUND FEEDS.

C SEE 8100 THRU 8107 FOR OVERHEAD ATTACHMENTS.

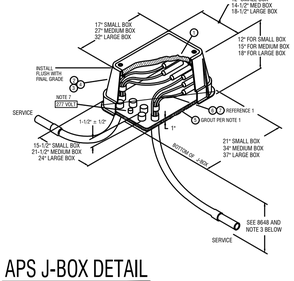
20 YEAR PHOTOCELL REQUIREMENTS

APN# 00073241 CONTROL PHOTO MULTI BR-20 CONTROL, PHOTO-ELECTRIC, BROWN, 20YEAR FAIL OFF, 120/208/240/277 MULTI-VOLT, SILICON, SOLID STATE, 2.40 TO 3.60 FC ON 1.2 TO 2.4 FC OFF, 60 HERTZ, 320 JOULE MOV, INVERSE ON/OFF RATIO .6:1 +/- .1, FAIL OFF, THREE PIN NEMA TWISTLOCK, 20 YEAR LIFE, 8483-SIDE SELC, MODEL #8483P27MABR. FAIL ON FOR PHOTCELLS WITH MODEL #8483N2MABR.

		GE Evolve II Gray Cobra LED Fixtures		
WATT	LUMEN	DESCRIPTION	APN	MODEL#
37W	4,700	**SCALABLE ROADWAY GE LED GRAY Local Street** LUMINAIRE 39WATT, 2700K, 4,700 LUMEN, ROADWAY, LED, TERMINAL BOARD. 10KV SURGE PROTECTION, 90 DEGREE CUTOFF, GRAY, MULTIVOLT 120/208/240/277 DRIVER, IES TYPE II NARROW, ANSI C136.41 7 PIN TWISTLOCK PHOTO CONTROL RECEPTACLE, CSA OR UL CERTIFIED, ANSI C136.15 WATTAGE LABEL.	128330	ERL1005A527AGRAY
87W	9,700	**SCALABLE ROADWAY GE LED GRAY Major Roadway** LUMINAIRE 97WATT, 2700K, 9,250 LUMEN, ROADWAY, LED, TERMINAL BOARD, 10KV SURGE PROTECTION, 90 DEGREE CUTOFF, GRAY, MULTIVOLT 120/208/240/277 DRIVER, IES TYPE II NARROW, ANSI C136.41 7 PIN TWISTLOCK PHOTO CONTROL RECEPTACLE, CSA OR UL CERTIFIED, ANSI C136.15 WATTAGE LABEL.	128332	ERL1010C537AGRAY

CODE	JUNCTION BARS
A	THREE-POSITION MOLDS
B	FIVE-POSITION MOLDS
C	EIGHT-POSITION MOLDS
D	TWO-POSITION GEL PACKS
N	NO CONNECTORS

8655._ _ _ _ SEE NOTE 10 AND 11 SMALL BOX
8656._ _ _ _ SEE NOTE 10 AND 12 MEDIUM BOX
8657._ _ _ _ SEE NOTE 13 LARGE BOX
IF APPLICABLE **G** = APS GROUT PROVIDED
IF APPLICABLE **L** = LIGHTS **D** = DUSK-TO-DAWN
SECONDARY WIRE CODES
JUNCTION BARS

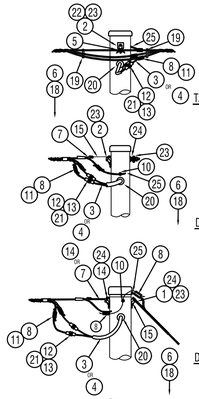


APS J-BOX DETAIL

1/4"=1'-0"

NOTES:

1. CONCRETE GROUT SHALL BE PREMIX, APN 71301280 OR EQUIVALENT.
2. PENTA-HEAD BOLTS SHALL BE INSTALLED PRIOR TO ENERGIZING NEW UNDERGROUND SYSTEMS. LOST OR MISPLACED PENTA-HEAD BOLTS SHALL BE REPLACED WITH APN 71402608.
3. BRINGING ALL CABLE/CONDUITS AND GROUND ROD INTO THE SAME END OF THE BOX TO ENABLE CABLES TO BE RAISED AND LOWERED EASILY. CONDUIT SWEEPS SHALL BE POSITIONED AND ALIGNED SO THAT WHEN TWO AND FOUR POSITION JUNCTION BARS ARE SPECIFIED, THE ST. LT., SECONDARY AND SERVICE CONDUITS SHALL BE INSTALLED AS SHOWN IN DETAIL "A". WHEN SIX POSITION JUNCTION BARS ARE SPECIFIED, THE ST. LT., SECONDARY AND SERVICE CONDUITS SHALL BE INSTALLED AS SHOWN IN DETAIL "B".
4. COMPACTION BENEATH AND AROUND JUNCTION BOX SHALL BE A MINIMUM OF 85 PERCENT.
5. REPLACEMENT LID FOR MEDIUM PLASTIC JUNCTION BOX IS 33100981. PENTAHEAD BOLTS AND EMS MARKER MUST BE REUSED FROM OLD LID.
6. ADDITIONAL TRENCH DEPTH IS USUALLY REQUIRED AT ALL EQUIPMENT LOCATIONS. SEE 8648 FOR THE MINIMUM TRENCH DEPTHS AND THE DEGREE OF SLOPE ALLOWED AS THE TRENCH DEPTH CHANGES.
7. ON 277 VOLT STREET LIGHT CIRCUITS, INSTALL "277 VOLT" RED MICARTA TAG (APN 00080796) PROVIDED BY SPEC 8129.
8. TORQUE BOLTS TO 5 FT - LBS (60 IN - LBS).



8100._ _ TWO WIRE 120V, 277V TANGENT
8101._ _ THREE WIRE 208V, 240V TANGENT
IF APPLICABLE
DE = DUSK-TO-DAWN
WIRE CODE
8102._ _ TWO WIRE 120V, 277V DEADEND
8103._ _ THREE WIRE 208V, 240V
8106._ _ TWO WIRE 120V, 277V DEADEND WITH GUY HOOK
8107._ _ THREE WIRE 208V, 240V DEADEND WITH GUY HOOK

ITEM	CODE 8100 QTY	8101 QTY	8102 QTY	8103 QTY	8106 QTY	8107 QTY	DETAIL A QTY	MATERIAL LIST DESCRIPTION	APN
1	-	-	-	-	1	1	-	BOLT GALV MACH 5.5/8" X 10"	33001549
2	1	1	1	1	-	-	-	BOLT GALV MACH 5.5/8" X 8"	33001547
3	10	-	10	-	10	-	-	CABLE 2/C #14CU UF	31102132
4	-	10	-	10	-	10	-	CABLE 3/C #14CU UF	31102135
5	1	1	1	-	-	-	-	CLAMP ANGLE, 162 TO 60	33002502
6	1	1	1	1	1	1	-	CLAMP GROUND ROD 5/8"	33002580
7	-	-	1	1	-	-	-	CLAMP WEDGE FELX 4-2AL	33002772
8	2	3	2	3	4	2	-	CONN AL PG - SEE 2250	
9	-	-	-	-	1	1	-	CONN CU "C" - SEE 2255	
10	1	1	1	1	1	1	-	CONN POST 1/2"S.SS #6-1/0	00095704
11	1	2	1	2	1	2	-	COVER D DE INSULATING	33003192
12	1	2	1	2	1	2	-	FUSE CARTRIDGE 15A	72602410
13	1	2	1	2	1	2	-	FUSEHOLDER IN-LINE 600V	00097502
14	-	-	-	-	1	1	-	GRIP DE PREF - SEE2135	
15	-	-	1	1	2	2	-	HOOK GUY - MED DUTY 5/8"	33003831
16	1	1	1	1	1	1	-	NUT INSERT RIVNUT	00055552
17	-	-	-	-	-	-	1	NUT SU GALV 5/8"	33004176
18	1	1	1	1	1	1	-	ROD COPPERCLAD GRD 5/8" X 8"	33004805
19	2	2	-	-	-	-	-	SPACER MULTIPLEX CABLE	33006510
20	1	1	1	1	1	1	-	STOPPER BUG AND DUST	33806955
21	1	1	1	1	1	1	-	TUBING SHRINKABLE 1/4	71606200
22	2	2	2	2	-	-	-	WASHER GALV CU 3X3X1/4"	33007126
23	1	1	1	1	1	1	-	WASHER GALV DBL CON. 5/8"	33007154
24	-	-	-	-	-	-	2	WASHER GALV RD 5/8"	33007185
25	2	2	2	2	2	2	-	WIRE BARE #6 SOLID CU	33007580

NOTES:
1. STEEL POLES AND ALL MAST ARMS MUST BE GROUNDED.
2. OVERHEAD ATTACHMENTS MUST BE GROUNDED TO THE STREET LIGHT POLE. A 7/32" HOLE HAS BEEN ADDED 6" BELOW TOP OF STREET LIGHT POLE TO INSTALL A GROUNDING INSERT APN 00055552. TOOL TO INSTALL RIVNUT IS APH 00053279. SEE STANDARD 2408. WHERE RIVNUTS ARE NOT AVAILABLE GROUND PER DETAIL A.
3. ALL OVERHEAD FED STREET IGHT POLES SHALL HAVE A GROUND ROD INSTALLED AND A #6 GROUND WIRE BONDED TO THE GROUNDING LUG AT THE BACK OF THE HAND HOLE,
4. THESE CODES PROVIDE THE #14 CU FOR THE MAST ARMS,., HARDWARE FOR ATTACHING TANGENT OR DEADEND SECONDARY, AND THE CONNECTORS.

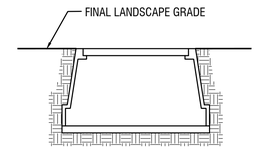
STREET LIGHT POLE CABLE ATTACHMENTS AND GROUNDING DETAIL

1/2"=1'-0"

DESCRIPTION
15" X 21" X 12" JUNCTION BOX WITH 3/8" CAPTIVE PENTA HEAD BOLTS

WORD "ELECTRIC" ON COVER

BOX TO BE POLYMER CONCRETE MATERIAL WITH POLYMER CONCRETE BOLT DOWN (NON-CONDUCTIVE COVER).



FLUSH MOUNTED-BOLT ON COMPOSOLITE LID

SRP APPROVED SUPPLIERS	PART NUMBER
STRONGWELL	PC1118B513 BOX PC1118C504-17/UH0390AA COVER WITH ELECTRIC
ARMORCAST PRODUCTS	A6001429A
CDR SYSTEMS	PA40-1015-12
CARSON & ASSOCIATES	HLW111B-12 BOX HLW1118-PO LID

J-BOX SECTION

3/8"=1'-0"

aps

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

PER CITY OF PHOENIX ORDINANCE G-4396, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX.

GRAY ROADWAY STREET LIGHTS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

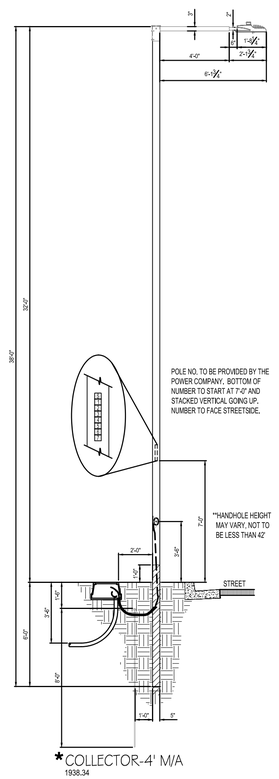
APPROVED BY:
CITY OF PHOENIX DATE:

PROJECT #: | FILE NO:
DR: | DES: | CK: | SHEET NO: | TOTAL SHEETS
DATE: | DATE: | DATE:
SCALE: NTS | QS. #: | 364A | 364

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.		364B	368

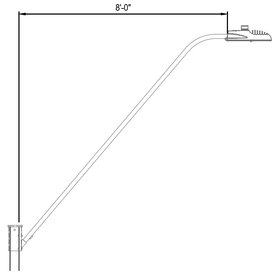
DR: | DES: | CK: | DATE:

* DOWNTOWN STANDARD, NORTH OF THE C.A.P., LIGHT RAIL OR AS SPECIAL REQUEST.



*COLLECTOR-4' M/A
1938.34

DARK BRONZE SQUARE POLE STANDARDS
1/4"=1'-0"



DARK BRONZE SQUARE POLE LUMINAIRES
3/8"=1'-0"

DARK BRONZE LUMINAIRE DESCRIPTIONS

APN# 126804
37W LED RWDB - LOCAL
ERL1005A527ADKBZ

APN# 126806
87W LED RWDB - ARTERIAL
ERL1010C527ADKBZ

1944._ _

19 = 19' - 0" POLE SNG SIMPLEX
30 = 30' - 6" POLE SNG SIMPLEX
38 = 38' - 6" POLE SNG SIMPLEX
38X = 38' - 6" POLE DBL SIMPLEX
** SEE SPEC. NOTE

CONSTRUCTION NOTES:

1 ADJUST PHOTO EYE TO FACE NORTH

2 A GROUND ROD IS PROVIDED WITH THE JUNCTION BOX. WHERE A GROUND ROD CANNOT BE DRIVEN ALTERNATE GROUND SHALL BE USED. SEE 2449 THRU 2460 FOR APPROVED ALTERNATES.

3 THE 40'-6" SELF-SUPPORTING STEEL POLE AND ONE OF THE 38'-0", HAVE TWO, MANUFACTURED INSTALLED SIMPLEX FITINGS 180 APART FOR DOUBLE ARMS, SEE CHART.

4 APN 33701054 IS A POLE BAND ADAPTOR WITH A SIMPLEX FITTING. ADAPTOR IS REQUIRED FOR THE SECOND ARM IN DOUBLE ARM APPLICATIONS ON EXISTING PLES IN THE FIELD WITHOUT TWO SIMPLEX FITTINGS. SEE 8198 FOR AVAILABLE SIZES.

5 POLES THAT HAVE MORE THAN ONE LUMINAIRE REQUIRE A SEPARATE CIRCUIT WITH FUSING FROM THE J-BOX TO EACH LUMINAIRE.

ENGINEERING NOTES:

A THE LIGHT CODE PROVIDES TWO SAME WATTAGE LUMINAIRES WHEN DOUBLE ARM ARE SPECIFIED.

B SEE SPEC 8130 - 8131 FOR IN-LINE FUSE FOR UNDERGROUND FEEDS.

C SEE 8100 THRU 8107 FOR OVERHEAD ATTACHMENTS.

LIGHT CODE	COLOR	APN	TYPE	WATTS	MULTIVOLT	INITIAL LUMENS	PHOTOMETRIC CURVE
RL50	DARK BRONZE	00128251	LED	29	120/208/240/277 DRIVER	3,800	454669
RL52		00126804		37	120/208/240/277 DRIVER	4,700	454659
RL53		00126805		68	120/208/240/277 DRIVER	8,000	454677
RL54		00126806		87	120/208/240/277 DRIVER	9,700	454688
RL56		00128365		140	120/208/240/277 DRIVER	16,900	454942

POLE TYPE	POLE CODE	POLE LENGTH	BURY DEPTH	POLE ABOVE GROUND	POLE BUTT DIAMETER		WEIGHT	LUMINAIRE HEIGHT ABOVE GROUND ON ARM		
					STEP	TAPER		20" X 6'	3' X 8'	8' X 8'
ARTERIAL	1944.38X	38' - 6"	6' - 6"	32' - 0"	6-5/8"	9-3/4"	640	32' - 11"	34' - 3"	39' - 3"
**FOR NON-STANDARD POLES, CONTACT THE STREET TRANSPORTATION STREETLIGHTING SECTION FOR INFORMATION.										

ELECTRICAL REQUIREMENTS FOR NEW POLE INSTALLATION

1. JUNCTION BOXES SHALL MEET UTILITY COMPANY STANDARDS.
2. CONDUIT, CONDUCTORS, AND FUSE HOLDERS SHALL BE LISTED AND LABELED FOR USE IN A WET LOCATION WHEN USED IN A JUNCTION BOX. NEC300.5(B), 310.8(C)
3. IN-LINE FUSE HOLDER USED IN HAND HOLE OR SERVICE DROP SHALL BE CONSIDERED AS DISCONNECTING MEANS. FUSE HOLDERS TO BE RATED AT 22,000 AIC MINIMUM. NEC 240.40
4. ELECTRICAL CONNECTIONS-CONDUCTORS OF DISSIMILAR METALS SHALL NOT BE INTERMIXED IN A TERMINAL OR SPLICING CONNECTOR WHERE PHYSICAL CONTACT OCCURS BETWEEN DISSIMILAR CONDUCTORS, (COPPER, ALUMINUM) UNLESS THE DEVICE IS IDENTIFIED FOR THE PURPOSE AND CONDITIONS OF USE. NEC 110.14
5. ELECTRICAL CONNECTIONS OR SPLICES IN AN UNDERGROUND INSTALLATION SHALL BE APPROVED FOR WET LOCATIONS. (NEC 300.5)
6. NON-CURRENT CARRYING CONDUCTIVE MATERIALS ENCLOSING ELECTRICAL CONDUCTORS OR EQUIPMENT, OR FORMING PART OF SUCH EQUIPMENT, SHALL BE CONNECTED TO EARTH IN A MANNER THAT WILL LIMIT THE VOLTAGE IMPOSED BY LIGHTNING OR UNINTENTIONAL VOLTAGE DUE TO SHORT CIRCUITS AND LIMIT THE VOLTAGE TO GROUND ON THESE MATERIALS. NEC 250.4(B) (GROUND RODS)
7. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED FROM THE GROUND LUG IN THE HAND-HOLE TO THE LUMINAIRE WITH THE CURRENT CARRYING CONDUCTORS. NEC 410.30(B)(3).
8. CONNECTION TO THE GROUND ROD AND THE GROUNDING ELECTRODE SHALL BE LISTED AND LABELED FOR USE. NEC 250.8
9. CONNECT #6 BARE COPPER WIRE FROM THE GROUND ROD ADJACENT TO THE POLE OR IN JUNCTION BOX TO THE GROUND LUG IN THE POLE.

CONSTRUCTION NOTES:

1 ADJUST PHOTO EYE TO FACE NORTH

2 A GROUND ROD IS PROVIDED WITH THE JUNCTION BOX. WHERE A GROUND ROD CANNOT BE DRIVEN ALTERNATE GROUND SHALL BE USED. SEE 2449THRU 2460 FOR APPROVED ALTERNATES.

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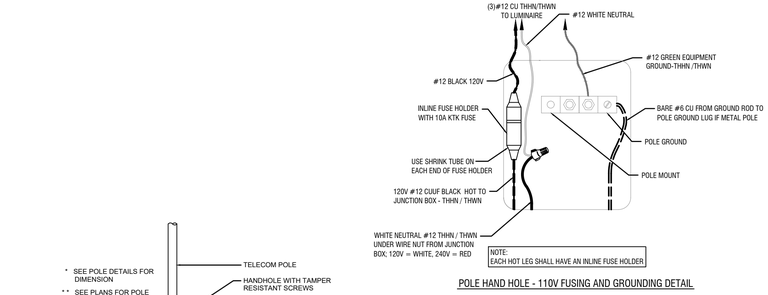
C SEE 8100 THRU 8107 FOR OVERHEAD ATTACHMENTS.

20 YEAR PHOTOCELL REQUIREMENTS

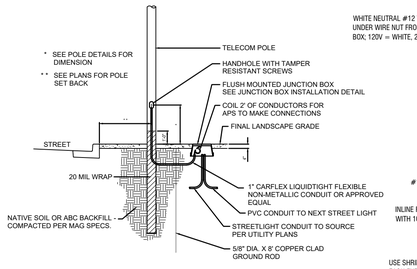
APN# 00073241 CONTROL PHOTO MULTI BR-20 CONTROL, PHOTO-ELECTRIC, BROWN. 20YEAR FAIL OFF, 120/208/240/277 MULTI-VOLT, SILICON, SOLID STATE, 2.40 TO 3.60 FC ON 1.2 TO 2.4 FC OFF, 60 HERTZ, 320 JOULE MOV, INVERSE ON/OFF RATIO .6:1 +/- .1, FAIL OFF, THREE PIN NEMA TWISTLOCK, 20 YEAR LIFE, 8483-SIDE SELC, MODEL #8483F2TMABR. FAIL ON FOR PHOTOCELLS WITH MODEL #8483N2MABR.

GE Evolve II Dark Bronze Shoebox LED Fixtures

WATT	LUMEN	DESCRIPTION	APN	MODEL#
87W	9,700	**SCALABLE ROADWAY GE LED DKBZ Major Roadway** LUMINAIRE 87WATT, 2700K, 9,700 LUMEN, ROADWAY, LED, TERMINAL BOARD, 10KV SURGE PROTECTION, 90 DEGREE CUTOFF, DARK BRONZE, MULTIVOLT 120/208/240/277 DRIVER, IESTYPE II NARROW, ANSI C136.41 7 PIN TWISTLOCK PHOTO CONTROL RECEPTACLE, CSA OR UL CERTIFIED, ANSI C136.15 WATTAGE LABEL.	126806	ERL1011C527ADKBZ

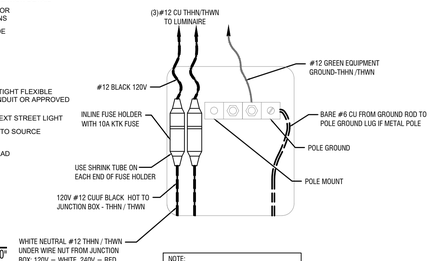


POLE HAND HOLE - 110V FUSING AND GROUNDING DETAIL



TELECOM POLE GROUNDING DETAIL

POLE GROUNDING DETAIL
3/16"=1'-0"



POLE HAND HOLE - 240V FUSING AND GROUNDING DETAIL

POLE HAND HOLE FUSING DETAIL
3/16"=1'-0"

CODE	JUNCTION BARS
A	THREE-POSITION MOLDS
B	FIVE-POSITION MOLDS
C	EIGHT-POSITION MOLDS
D	TWO-POSITION GEL PACKS
N	NO CONNECTORS

8655. _ _ _ _ SEE NOTE 10 AND 11 SMALL BOX

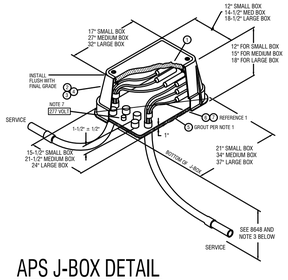
8656. _ _ _ _ SEE NOTE 10 AND 12 MEDIUM BOX

8657. _ _ _ _ SEE NOTE 13 LARGE BOX

IF APPLICABLE G = APS GROUT PROVIDED

IF APPLICABLE L = LIGHTS D = DUSK-TO-DAWN

SECONDARY WIRE CODES JUNCTION BARS



APS J-BOX DETAIL
1/4"=1'-0"

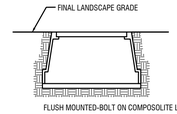
NOTES:

1. CONCRETE GROUT SHALL BE PREMIX, APN 71301280 OR EQUIVALENT.
2. PENTA-HEAD BOLTS SHALL BE INSTALLED PRIOR TO ENERGIZING NEW UNDERGROUND SYSTEMS. LOST OR MISPLACED PENTA-HEAD BOLTS SHALL BE REPLACED WITH APN 71402608.
3. BRINGING ALL CABLE/CONDUITS AND GROUND ROD INTO THE SAME END OF THE BOX TO ENABLE CABLES TO BE RAISED AND LOWERED EASILY. CONDUIT SWEEPS SHALL BE POSITIONED AND ALIGNED SO THAT WHEN TWO AND FOUR POSITION JUNCTION BARS ARE SPECIFIED, THE ST. LT., SECONDARY AND SERVICE CONDUITS SHALL BE INSTALLED AS SHOWN IN DETAIL "A". WHEN SIX POSITION JUNCTION BARS ARE SPECIFIED, THE ST. LT., SECONDARY AND SERVICE CONDUITS SHALL BE INSTALLED AS SHOWN IN DETAIL "B".
4. COMPACTION BENEATH AND AROUND JUNCTION BOX SHALL BE A MINIMUM OF 85 PERCENT.
5. REPLACEMENT LID FOR MEDIUM PLASTIC JUNCTION BOX IS 33100981. PENTAHEAD BOLTS AND EMS MARKER MUST BE REUSED FROM OLD LID.
6. ADDITIONAL TRENCH DEPTH IS USUALLY REQUIRED AT ALL EQUIPMENT LOCATIONS. SEE 8648 FOR THE MINIMUM TRENCH DEPTHS AND THE DEGREE OF SLOPE ALLOWED AS THE TRENCH DEPTH CHANGES.
7. ON 277 VOLT STREET LIGHT CIRCUITS, INSTALL "277 VOLT" RED MICARTA TAG (APN 00080796) PROVIDED BY SPEC 8129.
8. TORQUE BOLTS TO 5 FT - LBS (60 IN - LBS).

DESCRIPTION
15" X 21" X 12" JUNCTION BOX WITH 3/8" CAPTIVE PENTA HEAD BOLTS

WORD "ELECTRIC" ON COVER

BOX TO BE POLYMER CONCRETE MATERIAL WITH POLYMER CONCRETE BOLT DOWN (NON-CONDUCTIVE COVER).



SRP APPROVED SUPPLIERS	PART NUMBER
STRONGWELL	PC1118B513 BOX PC1118C504-17/UH0390AA COVER WITH ELECTRIC
ARMORCAST PRODUCTS	A6001429A
CDR SYSTEMS	PA40-1015-12
CARSON & ASSOCIATES	HLW1118-12 BOX HLW1118-PO LID

J-BOX SECTION
3/8"=1'-0"

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DARK BRONZE STREET LIGHTS

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

aps

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ARIZONA811
Call 811 or click Arizona811.com

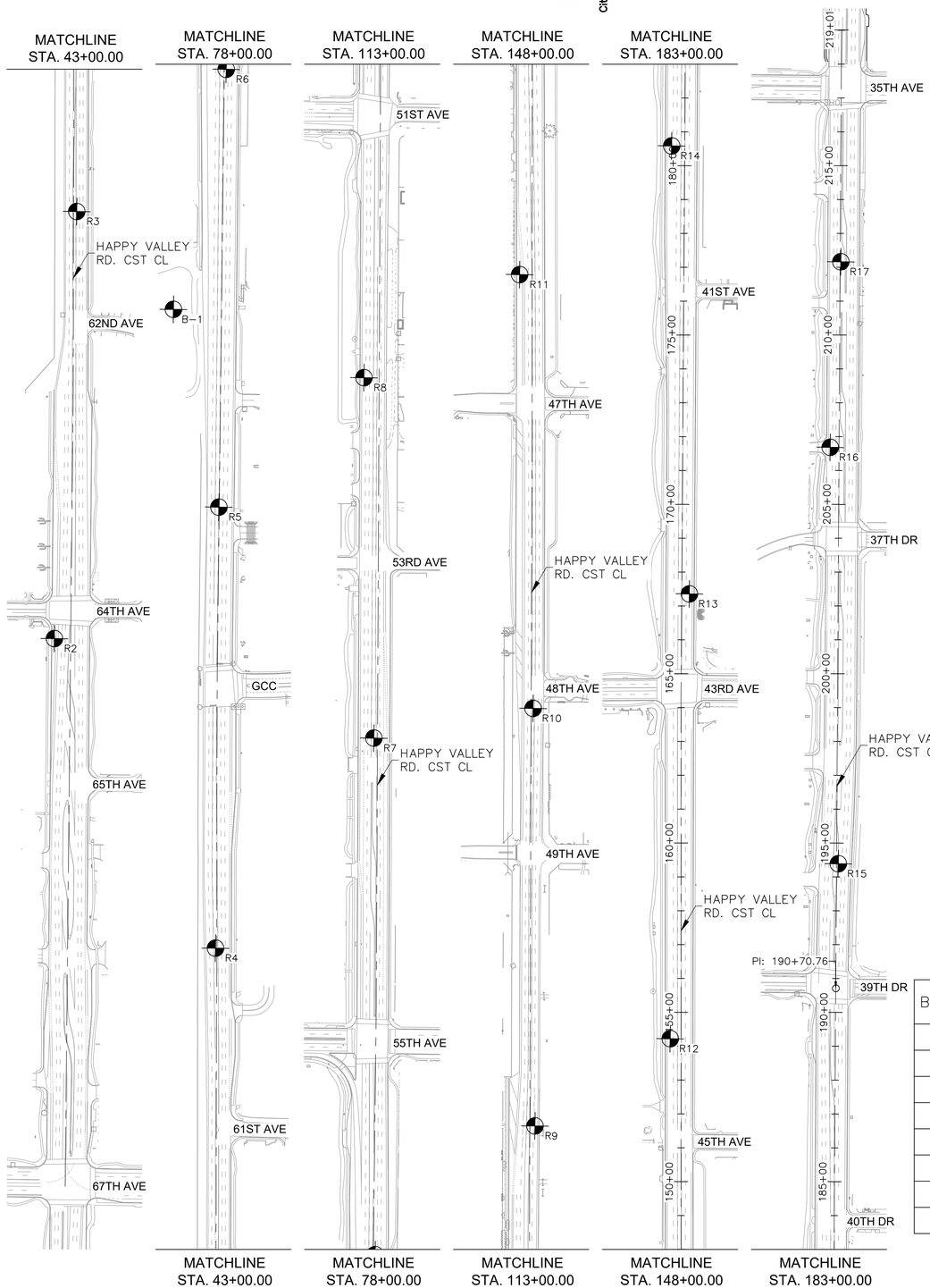
APPROVED BY: _____ DATE: _____
CITY OF PHOENIX

PROJECT #:			FILE NO:	
DR:	DES:	CK:	SHEET NO:	TOTAL SHEETS
DATE:	DATE:	DATE:		
SCALE: NTS		QS. #:	364B	364

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

PLAN

SCALE: 1' = 200'



LEGEND:

XX BORING LOCATION AND ID

NOTES:

1. GENERAL SOIL DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON ENGINEERING INTERPRETATION OF AVAILABLE SUBSURFACE INFORMATION BY THE GEOTECHNICAL ENGINEER AND MAY NOT REFLECT ACTUAL VARIATION IN SUBSURFACE CONDITIONS BETWEEN BORINGS AND SAMPLES. THE LOCATION OF CONTACTS BETWEEN STRATA SHOWN ON THE LOGS ARE GENERALLY APPROXIMATE, AND CHANGES BETWEEN MATERIALS IS IN GENERAL ACCORDANCE WITH ASTM D 2488 AND IS BASED ON FIELD OBSERVATION UNLESS ACCOMPANIED BY MECHANICAL ANALYSIS PRESENTED IN THE GEOTECHNICAL EXPLORATION REPORT.

2. THE OBSERVED WATER LEVELS AND/OR MOISTURE CONDITIONS INDICATED ON THE BORING LOGS ARE AS RECORDED AT THE TIME OF EXPLORATION. THESE WATER LEVELS AND/OR MOISTURE CONDITIONS MAY VARY CONSIDERABLY WITH TIME ACCORDING TO THE PREVAILING CLIMATE, RAINFALL, OR OTHER FACTORS AND ARE OTHERWISE DEPENDENT UPON THE DURATION OF AND METHODS USED IN THE EXPLORATION PROGRAM.

3. SOUND ENGINEERING JUDGEMENT WAS EXERCISED IN PREPARING THE SUBSURFACE INFORMATION PRESENTED ON THESE SHEETS. THIS INFORMATION WAS PREPARED AND IS INTENDED FOR DESIGN AND ESTIMATE PURPOSES. ITS PRESENTATION ON THE PLANS OR ELSEWHERE IS FOR THE PURPOSE OF PROVIDING INTENDED USERS WITH ACCESS TO THE SAME INFORMATION AS THE CITY AND ITS DESIGNERS. THIS SUBSURFACE INFORMATION INTERPRETATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION, INDEPENDENT INTERPRETATIONS, OR JUDGEMENT OF THE CONTRACTOR.

4. EXCAVATIONS WILL ENCOUNTER VARYING SUBSURFACE CONDITIONS AND MAY INCLUDE CLAYEY SAND, GRAVEL, AND COBBLES AND POSSIBLE BOULDERS.

5. A 140 LB HAMMER, 30 INCH FREE–FALL, WAS USED TO DRIVE 2 INCH O.D. STANDARD PENETRATION TEST (SPT) SPLIT–SPOON SAMPLER (ASTM D 1586) AND A 3 INCH O.D. RING–LINED SAMPLER.

6. FOR FURTHER INFORMATION, SEE TERRACON FINAL GEOTECHNICAL EXPLORATION REPORT DATED JUNE 3RD, 2022.

7. ALL GEOTECHNICAL REPORTS PREPARED FOR THIS PROJECT SHALL BE CONSIDERED BY THE CONTRACTOR IN DEVELOPING BID DOCUMENTS.

BORING TABLES:

BORING	DEPTH	LATITUDE	LONGITUDE
R2	4.50 Ft	33°42'44.57"N	112°11'52.33"W
R3	5.50 Ft	33°42'44.14"N	112°11'37.32"W
R4	4.00 Ft	33°42'44.42"N	112°11'21.80"W
R5	4.50 Ft	33°42'44.57"N	112°11'06.43"W
R6	5.50 Ft	33°42'44.57"N	112°10'50.95"W
R7	5.00 Ft	33°42'44.82"N	112°10'33.17"W
R8	5.50 Ft	33°42'45.32"N	112°10'20.32"W
R9	5.50 Ft	33°42'44.89"N	112°10'04.98"W

BORING	DEPTH	LATITUDE	LONGITUDE
R10	5.50 Ft	33°42'45.14"N	112°09'50.58"W
R11	5.50 Ft	33°42'45.72"N	112°09'35.32"W
R12	5.50 Ft	33°42'45.86"N	112°09'20.48"W
R13	5.50 Ft	33°42'45.54"N	112°09'04.86"W
R14	5.50 Ft	33°42'46.26"N	112°08'49.42"W
R15	5.50 Ft	33°42'45.97"N	112°08'33.11"W
R16	5.50 Ft	33°42'46.37"N	112°08'18.56"W
R17	5.50 Ft	33°42'46.12"N	112°08'12.05"W
B–1	19.50 Ft	33°42'45.72"N	112°11'00.24"W

Registered Professional Engineer (Civil)
CERTIFICATE NO.
73259
MATTHEW R. KLEINHOLZ
07/12/2024
Not Signed
ARIZONA, USA
EXPIRES 6/30/2027

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	364C	368	

07/2024 DATE:

Terracon 4685 S Ash Ave, Ste H-4 Tempe, AZ

DRAWN: RJN | DESIGN: MRK | CHECKED: RP

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CK'D BY	DATE

REVISION BY CITY OF PHOENIX

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2–28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

GEOTECHNICAL INFORMATION

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: MRK	CK: RP	DWG. NO. BD–1.01
DATE: 07/24	DATE: 07/24	DATE: 07/24	364C OF 364

SHEET NAME: ST85100437BD.DWG, PLOT DATE: 7/11/2024

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
PHOENIX STREETS – MARICOPA CO.

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CKD BY	DATE

BORING LOG NO. B-1

PROJECT: Happy Valley Road Improvements- 67th Ave to 35th Ave

CLIENT: Wilson & Company Inc Engineers & Architects
Phoenix, Arizona

SITE: Happy Valley Road
Phoenix, Arizona

LOCATION See Exploration Plan
Latitude: 33.7127° Longitude: -112.1834°

GRAPHIC LOG	DEPTH	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI	PERCENT FINES
	SILTY SAND (SC), trace gravel, fine to coarse sand, fine gravel, nonplastic, reddish brown, dense, weak cementation								
					26-38				
		5			19-23				
	with gravel, fine gravel	10			20-26				
	13.0 **SILTY CLAYEY SAND (SC-SM), trace gravel, fine to coarse sand, fine gravel,** low plasticity, tan, very dense	15			50/5"				
	19.5 *Boring Terminated at 19.5 Feet*				50/4"				

Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic

Advancement Method:
8" O.D. Hollow Stem Auger

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

Notes:

WATER LEVEL OBSERVATIONS
Groundwater not encountered

Terracon
4685 S Ash Ave, Ste H-4
Tempe, AZ

Boring Started: 04-12-2023	Boring Completed: 04-12-2023
Drill Rig: CME 75	Driller: Wildcat Drilling
Project No.: 65215140	

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 65215140 HAPPY VALLEY ROAD.GPJ TERRACON_DATATEMPLATE.GDT 5/26/23

Registered Professional Engineer (Civil)
CERTIFICATE NO.
76559
MATTHEW R. KLEINHOLZ
07/12/2024
Not Signed
ARIZONA, USA
EXPIRES 6/30/2027

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST85100437	364L	368	

07/2024
DATE:

Terracon
4685 S Ash Ave, Ste H-4
Tempe, AZ

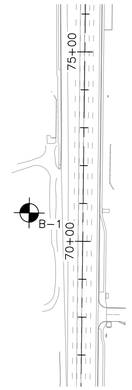
DRAWN: RJN | DESIGN: MRK | CHECKED: RP

LEGEND:

B-X BORING LOCATION AND ID

PLAN

SCALE: 1' = 200'



Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

GEOTECHNICAL INFORMATION

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

HAPPY VALLEY ROAD
67TH AVENUE TO 35TH AVENUE
ST85100437

DR: RJN	DES: MRK	CK: RP	DWG. NO. BD-1.10
DATE: 07/24	DATE: 07/24	DATE: 07/24	364L OF 364

SHEET NAME: ST85100437BD.DWG, PLOT DATE: 7/11/2024