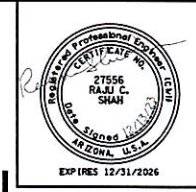


CITY OF PHOENIX STREET TRANSPORTATION DEPARTMENT DESIGN & CONSTRUCTION MANAGEMENT DIVISION 2021 ARPA LOCAL DRAINAGE MITIGATION PACKAGE 2 DRAINAGE IMPROVEMENT 16TH ST TO 18TH ST ST83140111



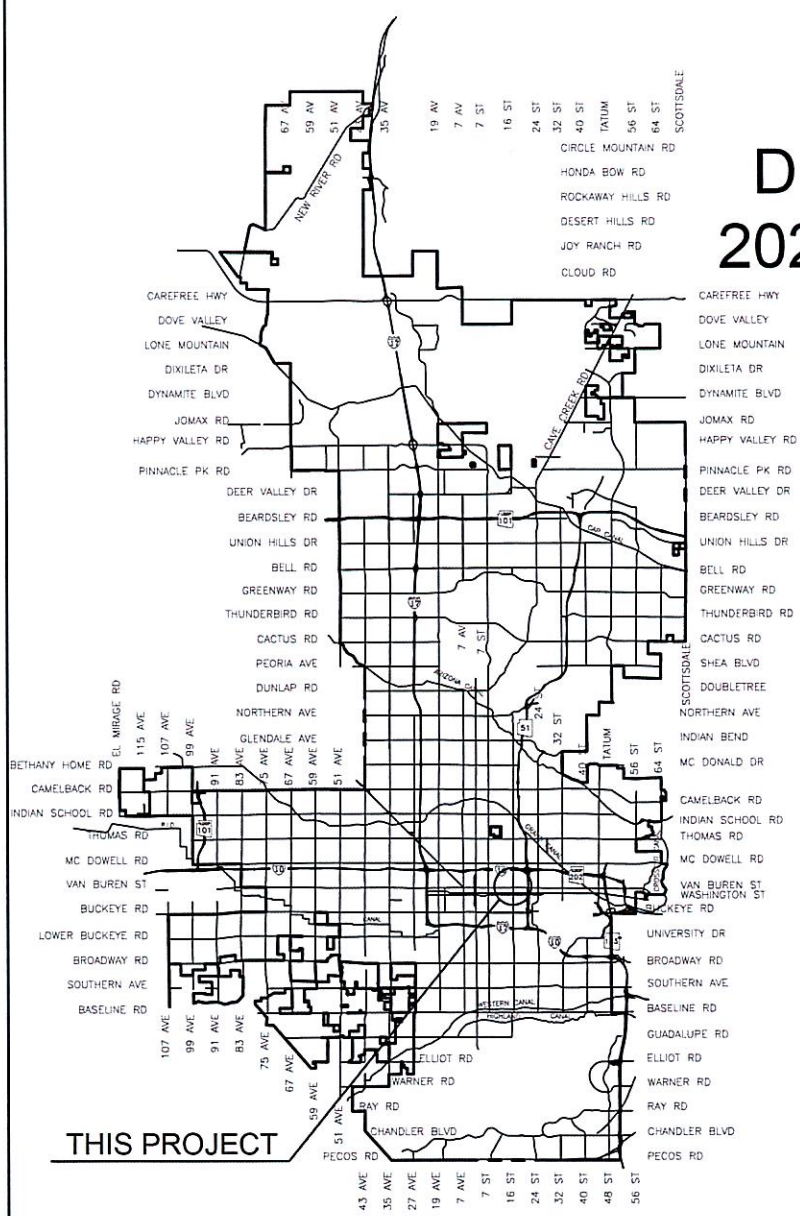
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST83140111	1	43	

ARDURRA
CONSULTING ENGINEER

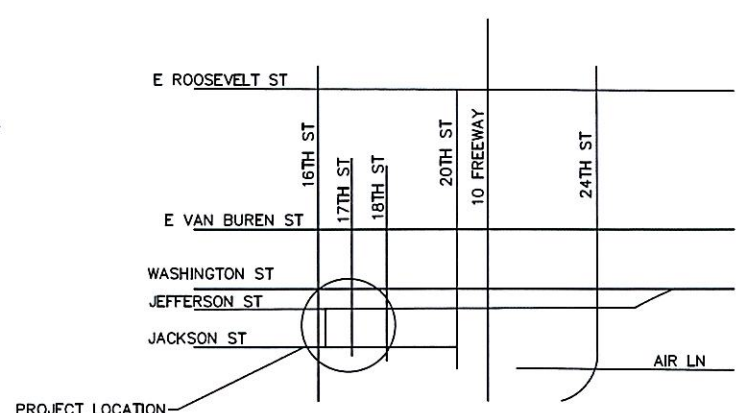
DES: RS	DR: LA	CK: RS	DATE: 12/04
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MAYOR
KATE GALLEGO
CITY MANAGER
JEFFREY BARTON
CITY COUNCIL

- 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. YASSAMIN ANSARI
- DISTRICT NO 8. KESHA HODGE WASHINGTON



VICINITY MAP
NTS



LOCATION MAP

2024

PROJECT LENGTH:
1788 LF

DISTURBED AREA:
01.008 ACRES

City Benchmark:

BENCHMARK NO. 1
3" CITY OF PHOENIX BRASS CAP IN HAND HOLE
LOCATED AT THE INTERSECTION OF 20TH STREET AND
ROOSEVELT STREET
(NGVD 29) ELEVATION=1105.78'

BENCHMARK NO. 2
SRVWUA BRASS CAP ON WESTSIDE OF IRRIGATION GATE
LOCATED AT THE NORTHEAST CORNER INTERSECTION OF 24TH
STREET AND AIRLANE
(NGVD 29) ELEVATION=1106.50'

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE AS-BUILT (AB) MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY DIRECT SUPERVISION AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

INDEX OF SHEETS

1	COVER SHEET
2	LEGEND AND NOTES SHEET
3	KEY MAP
4	DRAINAGE SUMMARY SHEET
5	GEOMETRIC CONTROL SHEET
6	TYPICAL SECTIONS
7-11	PLAN/PROFILE SHEETS
12-13	CONNECTOR PIPE PROFILES SHEET

APPROVED *Darsh Heb*
WATER SERVICES DEPARTMENT

APPROVED *Nazar Nabaty*
NAZAR-NABATY, PE, FLOODPLAIN MANAGER

APPROVED *Eric J Froberg*
ERIC J FROBERG, PE, CITY ENGINEER

6/24/2024
DATE

6/25/2024
DATE

06/26/2024
DATE

PREPARED FOR
CITY OF PHOENIX
STREET TRANSPORTATION DEPT.
200 WEST WASHINGTON STREET
PHOENIX, AZ 85003-1611
PHONE: 602-495-5938
CONTACT: RYAN BENTZ
EMAIL: RYAN.BENTZ@PHOENIX.GOV

PREPARED BY
ARDURRA
1001 N CENTRAL AVE
SUITE 900
PHOENIX, AZ 85004
PHONE: 602-236-1177
CONTACT: RAJ SHAH
EMAIL: RSHAH@ARDURRA.COM



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

Q.S. 10-31
100 % SUBMITTAL
ST83140111
DRAWING FILE NAME, REVISION DATE

MADISON STREET
 PHOENIX – MARICOPA CO.
 16TH ST TO 18TH ST

LEGEND, ABBREVIATIONS AND NOTES

NOTES

ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CONTRACT SPECIAL PROVISIONS AND DETAILS, 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.

ALL STORM SEWER MANHOLES ARE TO BE CONSTRUCTED WITHOUT STEPS. 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.

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 P-1576.

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 M.A.G. DETAIL 505. ANY ANGLE BENDS GREATER THAN 22-1/2" SHALL BE PREFABRICATED. CONNECTOR PIPES SHALL CONNECT TO CATCH BASIN WALLS AT AN ANGLE NOT TO EXCEED 22-1/2" FROM PERPENDICULAR.

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. TWO WORKING DAYS BEFORE CONSTRUCTION, THE CONTRACTOR SHALL CONTACT BLUESTAKE TO FIND AND FLAG UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT OTHER APPROPRIATE UTILITIES DIRECTLY IF THEY ARE NOT ON BLUESTAKE SYSTEM.

VERTICAL CONTROL IS BASED ON PHOENIX DATUM NGVD-29

UNLESS OTHERWISE NOTED, STATIONS SHOWN ON PIPE PROFILES ARE ALONG CENTERLINE OF PIPE. UNLESS OTHERWISE NOTED, PIPE SHALL BE BEDDED IN ACCORDANCE WITH CITY OF PHOENIX DETAIL P1200.

CATCH BASINS ARE STATIONED PERPENDICULAR TO THE CENTERLINE OF THE STREET AT THE CENTERLINE OF THE MAINTENANCE BASIN.

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.

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.

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.

ALL EXISTING DRIVEWAYS AND ALL EXISTING ALLEYS SHALL BE GRADED TO MATCH THE NEW WORK IN ACCORDANCE WITH STD. DETAIL P-1164, UNLESS OTHERWISE SPECIFIED. EXISTING SURFACING SHALL BE REMOVED AND REPLACED AS NECESSARY.

UNLESS OTHERWISE PROVIDED ON THE PLANS, EXISTING A.C. OR P.C.C. DRIVEWAYS AND SIDEWALKS WHICH FALL WITHIN OR ABOUT THE RIGHT OF WAY SHALL BE CONNECTED TO THE NEW WORK AS FOLLOWS:

THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING A.C. DRIVEWAYS SHALL BE FILLED WITH A MINIMUM OF 3" A.C.S.C. ON 100% COMPACTED NATIVE SOIL. WHERE EXISTING PAVEMENT AND BASE THICKNESS EXCEED THE MINIMUMS, MATCH THE EXISTING.

THE SPACE BETWEEN THE BACK OF NEW SIDEWALKS AND EXISTING PRIVATE SIDEWALKS, AND THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING P.C.C. DRIVEWAYS SHALL BE FILLED WITH P.C.C.. THE THICKNESS AND CLASS SHALL MATCH THAT OF THE NEW SIDEWALK OR DRIVEWAY ENTRANCE.

UNLESS OTHERWISE PROVIDED ON THE PLANS, THE SPACE BETWEEN THE BACK OF THE NEW SIDEWALKS, AND EXISTING A.C. PARKING LOTS, WHICH FALL WITHIN OR ABOUT THE R/W SHALL BE FILLED WITH 2" A.C.S.C. ON 100% COMPACTED NATIVE SOIL.

EXISTING IRRIGATION BERMS DISTURBED BY NEW CONSTRUCTION SHALL BE RECONSTRUCTED AS SHOWN ON PLANS.

M.A.G. ALLEY ENTRANCE DETAILS 260, 261, 262 AND 263, WHICH ARE INDICATED TO BE MODIFIED ON THESE PLANS SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL NUMBER EXCEPT THAT THE SLAB SHALL BE 9" THICK. DRIVEWAYS DESIGNATED ON THE PLANS AS M.A.G. DETAILS 250 AND 251 SHALL BE RESIDENTIAL DRIVEWAYS 5" THICK. ALL OTHER DRIVEWAYS SHALL BE CITY OF PHOENIX DETAILS P1255.

CATCH BASIN ACCESS FRAME AND COVERS SHALL BE CONSTRUCTED PER C.O.P. DETAIL P1561.

STRUCTURAL NOTES

"CLEAR" DIMENSIONS FOR DEPTH OF REINFORCING STEEL ARE FROM FACE OF CONCRETE TO FACE OF BARS.

ALL EXPOSED EDGES OF CONCRETE SHALL BE BEVELED OR ROUNDED.

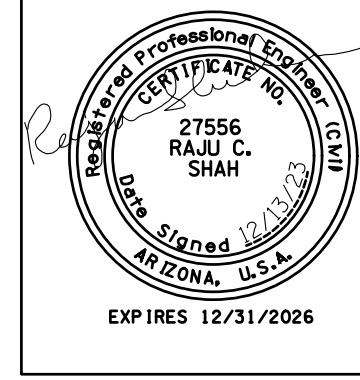
ALL EXPOSED CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH ARIZONA DEPT. OF TRANSPORTATION STANDARD SPECIFICATION 601-3.05 -FINISHING FORMED CONCRETE, UNLESS OTHERWISE SPECIFIED.

LEGEND

- BENCHMARK
- NEW 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 "B"
- COMBINED CURB & GUTTER - M.A.G. DETAIL 220 TYPE "A"
- BACKFILL TYPE & SQ. YD. PVMT. REPLACEMENT - C.O.P. DETAIL P1200
- EXISTING CONCRETE PAVEMENT OR SIDEWALK
- NEW CONCRETE SIDEWALK - STD. DETAIL P-1230
- NEW CONCRETE DRIVEWAY OR ALLEY ENT. PER DETAIL NO. ON PLANS
- NEW CONCRETE SIDEWALK RAMP PER DETAIL ON PLANS
- AVERAGE GROUND ELEVATION AT R/W LINE EXISTING DITCH EXISTING IRRIGATION LINE
- W/SIZE (NOTE PRIVATE, SALT RIVER OR R.I.D.)
- EXISTING IRRIGATION STRUCTURE
- EXISTING IRRIGATION STANDPIPE
- NEW IRRIGATION STANDPIPE - M.A.G. DETAIL 503
- NEW IRRIGATION VALVE - M.A.G. DETAIL 506 W/ CONC. SCOURING BASIN
- IRRIGATION BERM
- NEW IRRIGATION STRUCTURE PER DETAIL ON PLANS
- EXISTING WATER LINE W/SIZE & TYPE (12" AND SMALLER)
- EXISTING WATER LINE W/SIZE & TYPE (GREATER THAN 12")
- ADJUST EXIST. WATER VALVE BOX - C.O.P. DETAIL P1391 WATER SERVICE W/SIZE AND
- WATER METER BOX
- EXISTING FIRE HYDRANT
- NEW OR RELOCATED FIRE HYDRANT BY CONTRACTOR
- EXISTING WATER VALVE W/TOP OF OPERATING NUT ELEVATION
- EXISTING SANITARY SEWER LINE W/SIZE & TYPE (12" AND SMALLER)
- EXISTING SANITARY SEWER LINE W/SIZE & TYPE (GREATER THAN 12")
- EXISTING MANHOLE
- NEW MANHOLE
- CATCH BASIN, GUTTER INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB & GUTTER INLET (LENGTH TO SCALE)
- EXISTING STORM DRAIN LINE W/SIZE & TYPE (GREATER THAN 12")
- NEW PIPE FOR STORM DRAIN OR IRRIGATION LINE
- EXISTING GAS LINE W/SIZE
- EXISTING UNDERGROUND ELECTRIC CABLE OR SINGLE CONDUIT
- EXISTING UNDERGROUND ELECTRIC DUCT (SPECIFY NUMBER)
- EXISTING TELEPHONE BURIED CABLE OR SINGLE CONDUIT
- EXISTING UNDERGROUND TELEPHONE DUCT (SPECIFY NUMBER)
- EXISTING UNDERGROUND CABLE TV
- EXISTING UNDERGROUND FIBER OPTIC LINE
- EXISTING TRAFFIC SIGNAL POLE W/MAST ARM & SIGNAL INDICATIONS
- EXISTING STREET OR TRAFFIC SIGN
- EXISTING UTILITY POLE W/LINE INDICATING WIRE DIRECTION
- EXISTING WIRE FENCE
- EXISTING BLOCK FENCE
- EXISTING WOOD FENCE
- MAIL BOX
- EXISTING POWER POLE DOWN GUY ANCHOR
- EXISTING STREET LIGHT & POLE
- EXISTING TREE OR STUMP TO BE REMOVED - MORE THAN 12" DIA.
- EXISTING TREE TO BE TRANSPLANTED BY CONTRACTOR
- EASEMENT LINE
- EXISTING OR NEW R/W LINE
- PAVEMENT CENTER LINE OR MONUMENT LINE
- EXISTING TREE TO BE REMOVED (NON PAY ITEM)
- EXISTING TREE TO REMAIN
- MICRO-SEAL COAT

ABBREVIATIONS

- W WATER
- UGE UNDERGROUND ELECTRIC
- G GAS
- STL G STEEL GAS LINE
- PE G POLYETHYLENE GAS LINE
- SD STORM DRAIN
- CATV CABLE TELEVISION
- OHE OVERHEAD ELECTRIC
- OHT OVERHEAD TELEPHONE
- T TELEPHONE
- F FIBER OPTIC
- S SEWER
- MAG MARICOPA ASSOCIATION OF GOVERNMENTS
- C.O.P. CITY OF PHOENIX
- O.D. OUTER DIAMETER
- DET DETAIL
- STD STANDARD
- FLG FLANGED
- MJ MECHANICAL JOINT
- NTS NOT TO SCALE
- CU. FT. CUBIC FEET
- AC ASPHALT CONCRETE
- ABC AGGREGATE BASE CONCRETE
- EXIST EXISTING
- PROP PROPOSED
- AP ANGLE POINT
- STA STATION
- TC TOP OF CURB
- G GUTTER
- SW SIDEWALK
- BCR BEGIN CURB RETURN
- ECR END CURB RETURN
- EL ELEVATION
- SY SQUARE YARDS
- EA EACH
- LF LINEAR FEET
- DIAM DIAMETER
- NO. NUMBER
- SE SOUTH EAST
- SW SOUTH WEST
- NE NORTH EAST
- NW NORTH WEST
- R/W RIGHT-OF-WAY
- ESMT EASEMENT
- APN ASSESSOR PARCEL NUMBER
- PVMT PAVEMENT
- C/L CENTERLINE
- F/C FACE OF CURB
- PCCP PORTLAND CEMENT CONCRETE PAVEMENT
- EX/EXIST EXISTING
- SEC SECTION
- FM FLUSH MARKER
- V VERTICAL



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140111	2	43	
12/04 DATE			ARDURRA CONSULTING ENGINEER		
DESIGN: RS	DRAWN: LA	CHECKED: RS			

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				

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O: 602.263.1177
 1001 N. CENTRAL AVE
 SUITE 900
 PHOENIX, AZ 85004
www.ardurra.com

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

Call 811 or click Arizona811.com

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

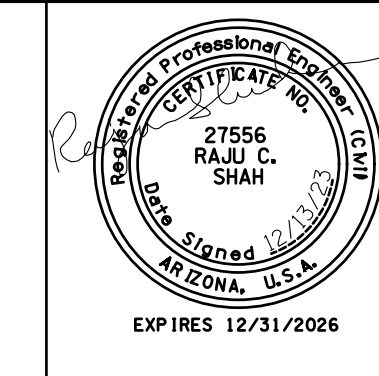
LEGEND, ABBREVIATIONS AND NOTES

CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

MADISON STREET
 16TH STREET TO 18TH STREET
 ST83140111

DR: LA	DES: RS	CK: RS	SHEET NO.	TOTAL SHEETS	AS BUILT
DATE: 12/04	DATE: 12/04	DATE: 12/04	2	43	
SHEET NAME		LN01			

MADISON STREET
 PHOENIX - MARICOPA CO.
 16TH ST TO 18TH ST



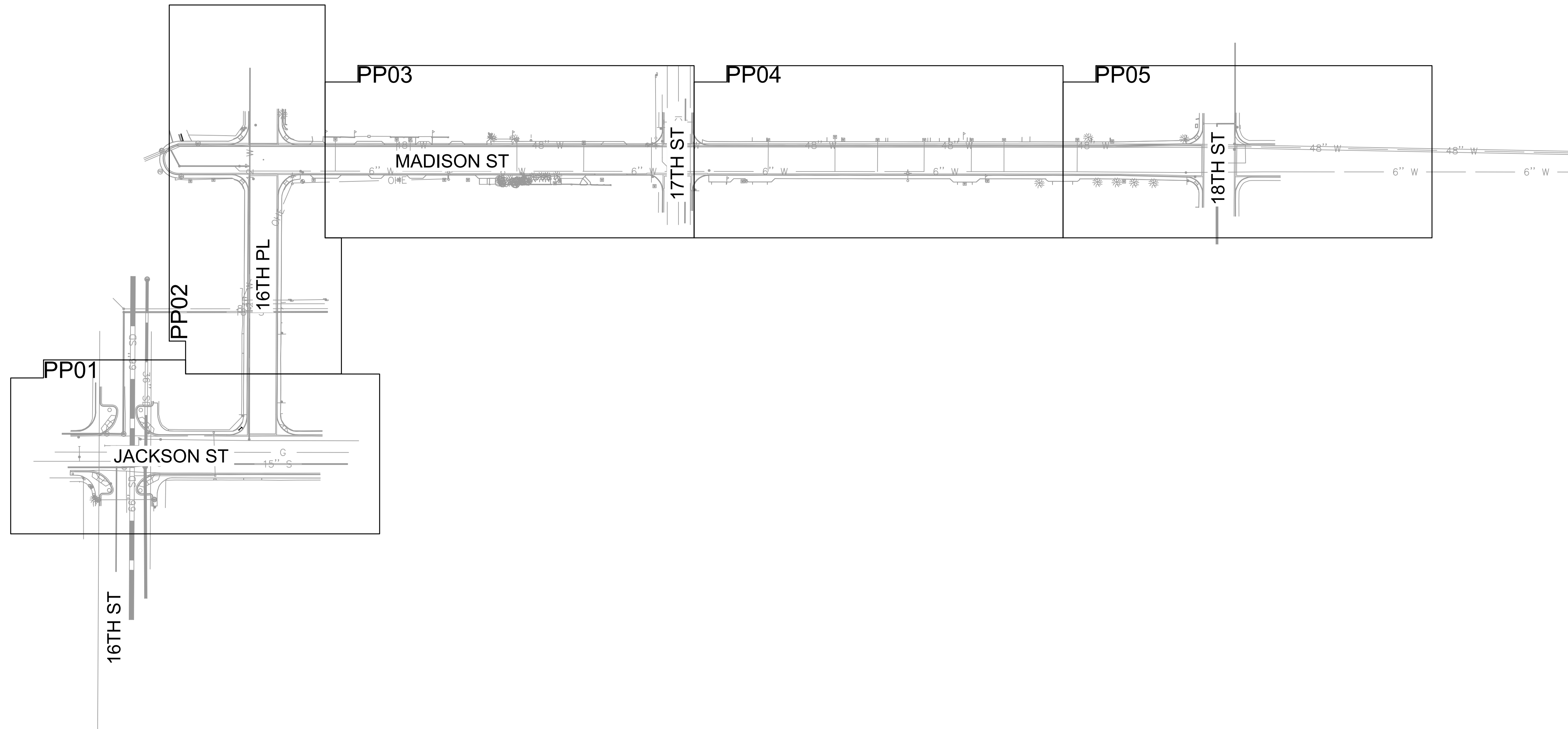
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140111	3	43	

12/04			ARDURRA		
DATE			CONSULTING ENGINEER		
DESIGN: RS	DRAWN: LA	CHECKED: RS			

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



0 40 80 160
 HORIZONTAL 1" = 80

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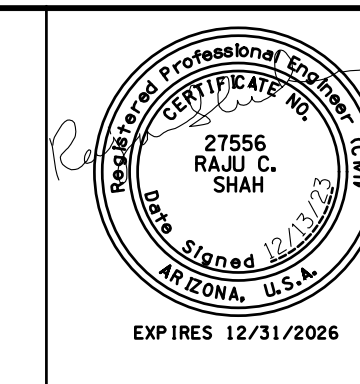
KEY MAP
 CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

**MADISON STREET
 16TH STREET TO 18TH STREET
 ST83140111**

DR: LA	DES: RS	CK: RS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 12/04	DATE: 12/04	DATE: 12/04	3	43	
SHEET NAME		KM01			

MADISON STREET
PHOENIX – MARICOPA CO.
16TH ST TO 18TH ST

DRAINAGE SUMMARY



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140111	4	43	

12/04
DATE
ARDURRA
CONSULTING ENGINEER
DESIGN: RS DRAWN: LA CHECKED: RS

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
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REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				

ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																												TOTAL
			7	8	9	10	11																								
M3001001	Sawcut & Remove Existing Asphalt Pavement	SY	398	367	520	520	318																								2,123
M3001002	Sawcut & Remove Existing Curb & Gutter	Lin. Ft.	38		44	44	88																							214	
M3360130	Asphalt Concrete For Permanent Pavement Replacement, 1 1/2" Type D 1/2, 3 1/2" Type A 1 1/2" on 100% compacted native subgrade	SY	398	367	520	520	318																							2,123	
M3362100	Install Micro-seal Coat	SY	1820	1399	1788	1664	1272																							7,955	
M3400240	Concrete Valley Gutter, Std. Detail 240	SF	29	29			58																							116	
M3400400	Concrete Sidewalk, COP Std. Detail P-1230	SF	43			85	170																							298	
M3402200	Combined Concrete Curb & Gutter, MAG Std. Detail 220, Type "A"	Lin. Ft.	21		8	8	16																							53	
M3500020	Remove Portland Cement Concrete Sidewalk, Driveway, Valley Gutter & Slab	SF	87	29		174	405																							695	
M3500045	Remove Pipe Plug	Each					2																							2	
M3500100	Remove Existing Pump Facilities	LS					1																							1	
M5051528	Concrete Catch Basin, TYPE "M-1, L=10-Ft", per Phx Supp. Detail P-1569-2	Each	1		2	2	4																							9	
M5051565	Concrete Catch Basin, Type "N, Single", Phx. Supp. Detail P-1570	Each	1																											1	
M6104008	8" Ductile Iron Water Pipe & Fitting, Restrained, Finish & Install	Lin. Ft.	70																											136	
M6180506	Concrete Pipe Collar for 24" Pipe and Larger, COP Standard Detail P-1505	Each					2																							2	
M6183018	18" Rubber Gasket Reinforced Concrete Pipe, Class III	Lin. Ft.	48		39	39	100																							226	
M6183024	24" Rubber Gasket Reinforced Concrete Pipe, Class III	Lin. Ft.	43				53																							96	
M6183030	30" Rubber Gasket Reinforced Concrete Pipe, Class III	Lin. Ft.	160																											160	
M6183036	36" Rubber Gasket Reinforced Concrete Pipe, Class III	Lin. Ft.	10																											10	
M6183042	42" Rubber Gasket Reinforced Concrete Pipe, Class III	Lin. Ft.	90	331	451	451	191																							1,514	
M6250005	Storm Sewer Manhole, MAG Standard Detail 522, COP Supp. Std. Detail P-1520	Each	3	1	2	1	2																							9	



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DRAINAGE SUMMARY
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
MADISON STREET
16TH STREET TO 18TH STREET
ST83140111

DR: LA	DES: RS	CK: RS	SHEET NO.	TOTAL SHEETS	AS BUILT
DATE: 12/04	DATE: 12/04	DATE: 12/04	NO: 4	43	

MADISON STREET
PHOENIX - MARICOPA CO.
16TH ST TO 18TH ST



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140111	5	43	
DATE: 12/04			ARDURRA CONSULTING ENGINEER		
DESIGN: RS	DRAWN: LA	CHECKED: RS			

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				
NO.				
NO.				
NO.				
NO.				
NO.				
NO.				
NO.				
NO.				

BASIS OF SURVEY

THE FOLLOWING PARAMETERS WERE SET FOR THE BASIS OF THIS SURVEY:

SYSTEM: UNITED STATES STATE PLANE NAD83
ZONE: ARIZONA CENTRAL
DATUM: NORTH AMERICAN 1983

UNITS = INTERNATIONAL FEET (1 FOOT = 0.3048 METERS EXACTLY)
TRIMBLE R8/R10 GPS EQUIPMENT AND TRIMBLE S6/S7 ROBOTICS WERE USED FOR ALL FIELD MEASUREMENTS. DIRECT SATELLITE MEASUREMENTS WERE MADE ON EACH POINT ON THE NORTH AMERICAN DATUM OF 1983 WITH AUTOMATIC TRANSLATIONS MADE TO THE STATE PLANE GRID SYSTEM.

GPS CALIBRATION AND TRANSLATION TO THE SURFACE WAS PERFORMED BY LAND SURVEY SOFTWARE. A GRID ADJUSTMENT FACTOR OF 1.00016 AND SCALE ORIGIN VALUES OF N=0.00, E=0.00

ALL BEARINGS ARE GROUND/GRID BEARINGS
ALL DISTANCES ARE GROUND DISTANCES (INTERNATIONAL FEET)
ALL COORDINATES ARE GROUND VALUES (INTERNATIONAL FEET)

BASIS OF BEARING

FOR THIS PROJECT IS N89°58'41"E FOR THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 1 NORTH, RANGE 3 EAST OF THE GILA & SALT RIVER MERIDIAN AS CALCULATED FROM AN PLSS SUBDIVISION RECORD OF SURVEY MARICOPA COUNTY GEODETIC DENSIFICATION AND CADASTRAL SURVEY RECORDED IN BOOK 1045, PAGE 45, MARICOPA COUNTY RECORDS.

CITY OF PHOENIX BENCHMARKS

BENCHMARK NO. 1
3" CITY OF PHOENIX BRASS CAP IN HAND HOLE
LOCATED AT THE INTERSECTION OF 20TH STREET AND ROOSEVELT STREET (NGVD 29) ELEVATION=1105.78'

BENCHMARK NO. 2
SRVWUA BRASS CAP ON WESTSIDE OF IRRIGATION GATE
LOCATED AT THE NORTHEAST CORNER INTERSECTION OF 24TH STREET AND AIRLANE (NGVD 29) ELEVATION=1106.50'

PREPARED FOR

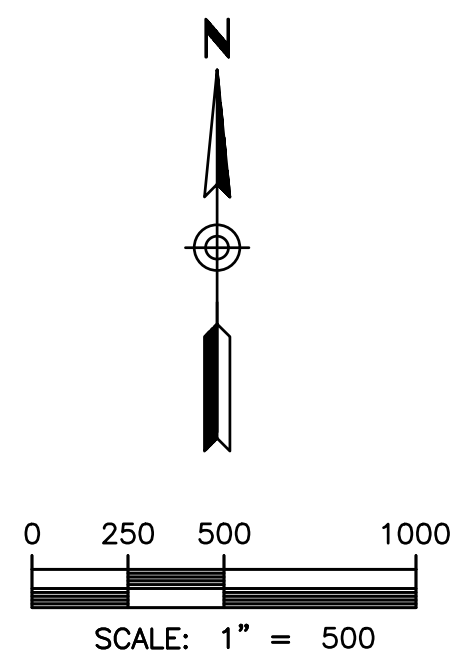
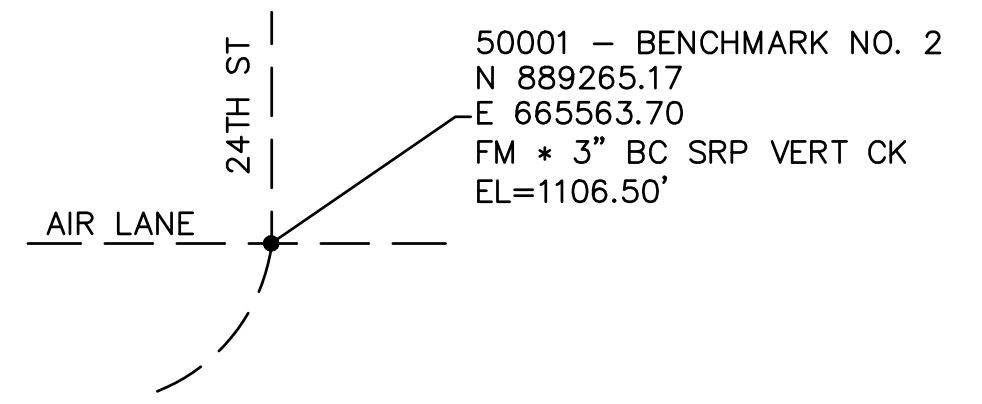
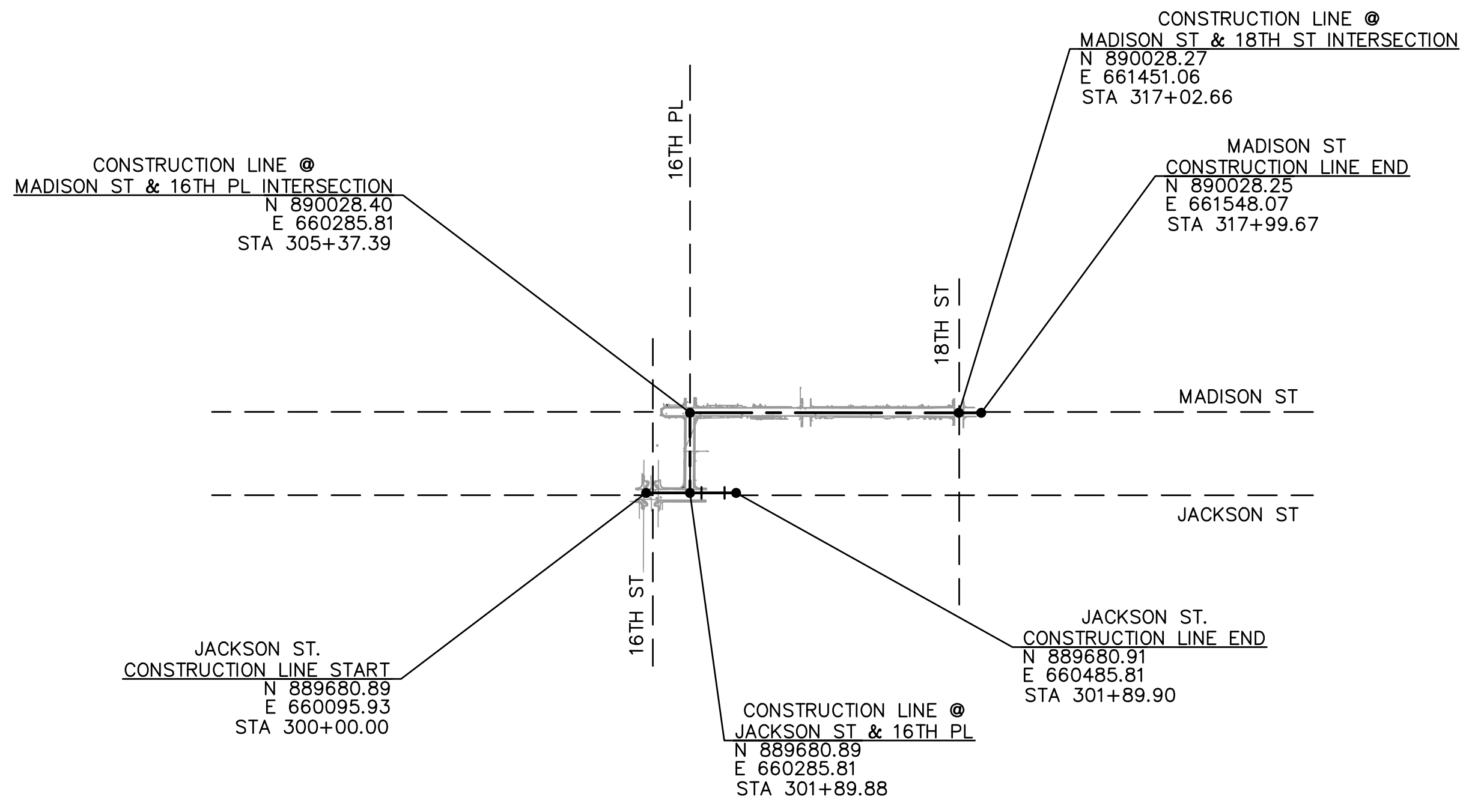
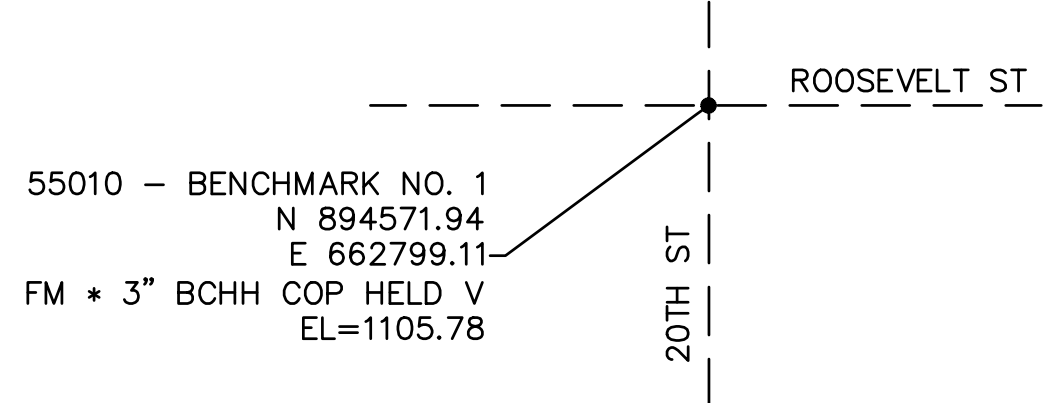
CITY OF PHOENIX
STREET TRANSPORTATION DEPT.
200 WEST WASHINGTON STREET
PHOENIX, AZ 85003-1611
PHONE: 602-495-5938
CONTACT: -

PREPARED BY

ARDURRA
1001 N CENTRAL AVE
SUITE 900
PHOENIX, AZ 85004
PHONE: 602-236-1177
CONTACT: RAJ SHAH PE



O: 602.263.1177
1001 N. CENTRAL AVE
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CERTIFICATION

I, TROY RAY HEREBY CERTIFY THAT THIS DRAWING AND THE FIELD SURVEYS IT WAS BASED ON WERE PERFORMED AND PREPARED UNDER MY SUPERVISION DURING THE MONTH OF (MONTH YEAR). THE SURVEY AND THE MONUMENTS IT IS BASED ON ARE CORRECT AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

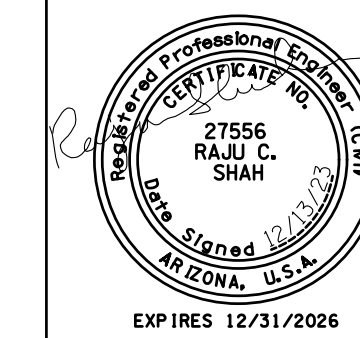
Troy A. Ray
SURVEYOR
R.L.S.# 33868

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

GEOMETRIC CONTROL
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
MADISON STREET
16TH STREET TO 18TH STREET
ST83140111

DR: LA	DES: RS	CK: RS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 12/04	DATE: 12/04	DATE: 12/04	5	43	
SHEET NAME			GC01		

MADISON STREET
 PHOENIX - MARICOPA CO.
 16TH ST TO 18TH ST

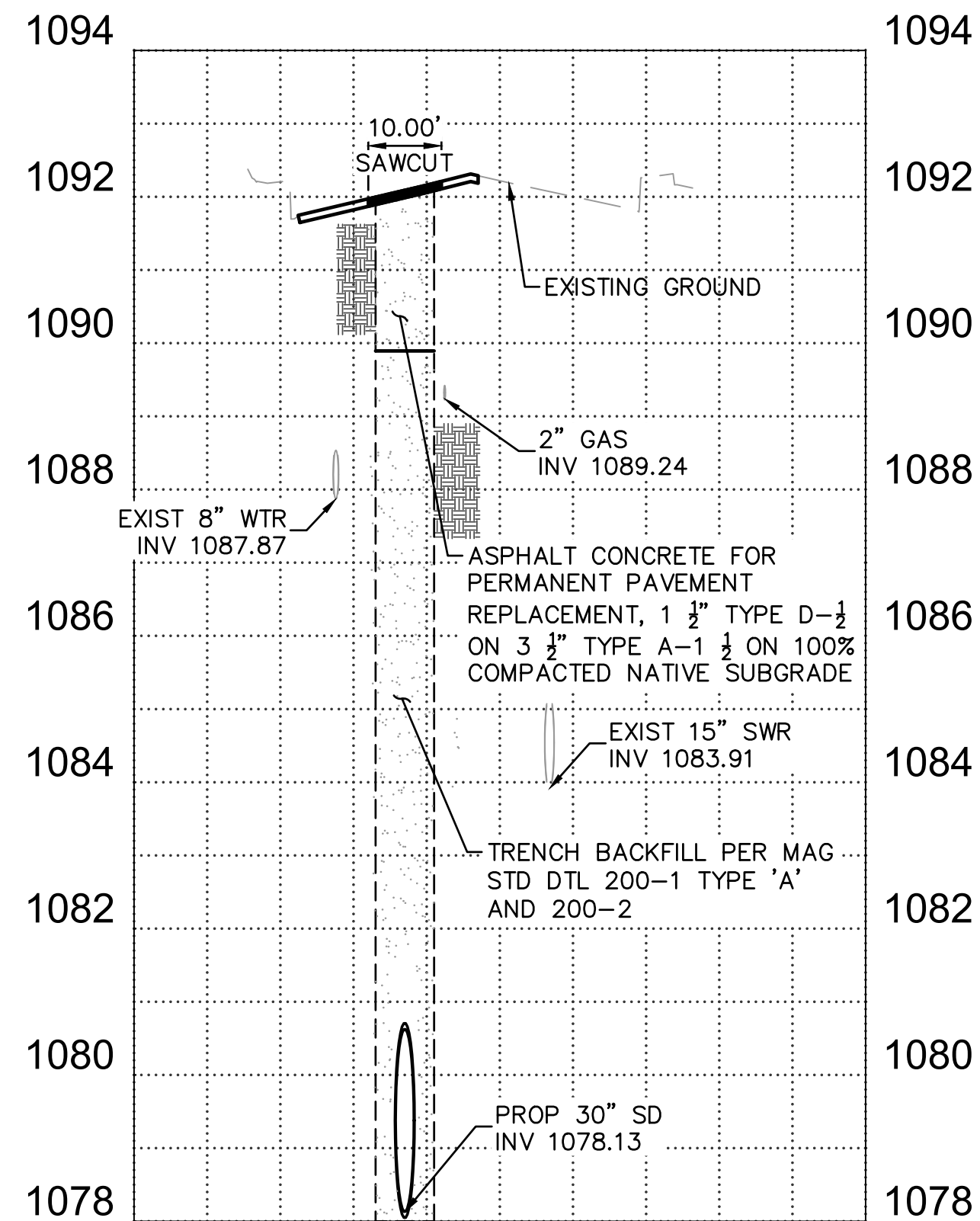


F.H.W.A. REGION 9	STATE ARIZ.	PROJECT NO. ST83140111	SHEET NO. 6	TOTAL SHEETS 43	AS BUILT
DATE 12/04			CONSULTING ENGINEER ARDURRA		
DESIGN: RS		DRAWN: LA		CHECKED: RS	

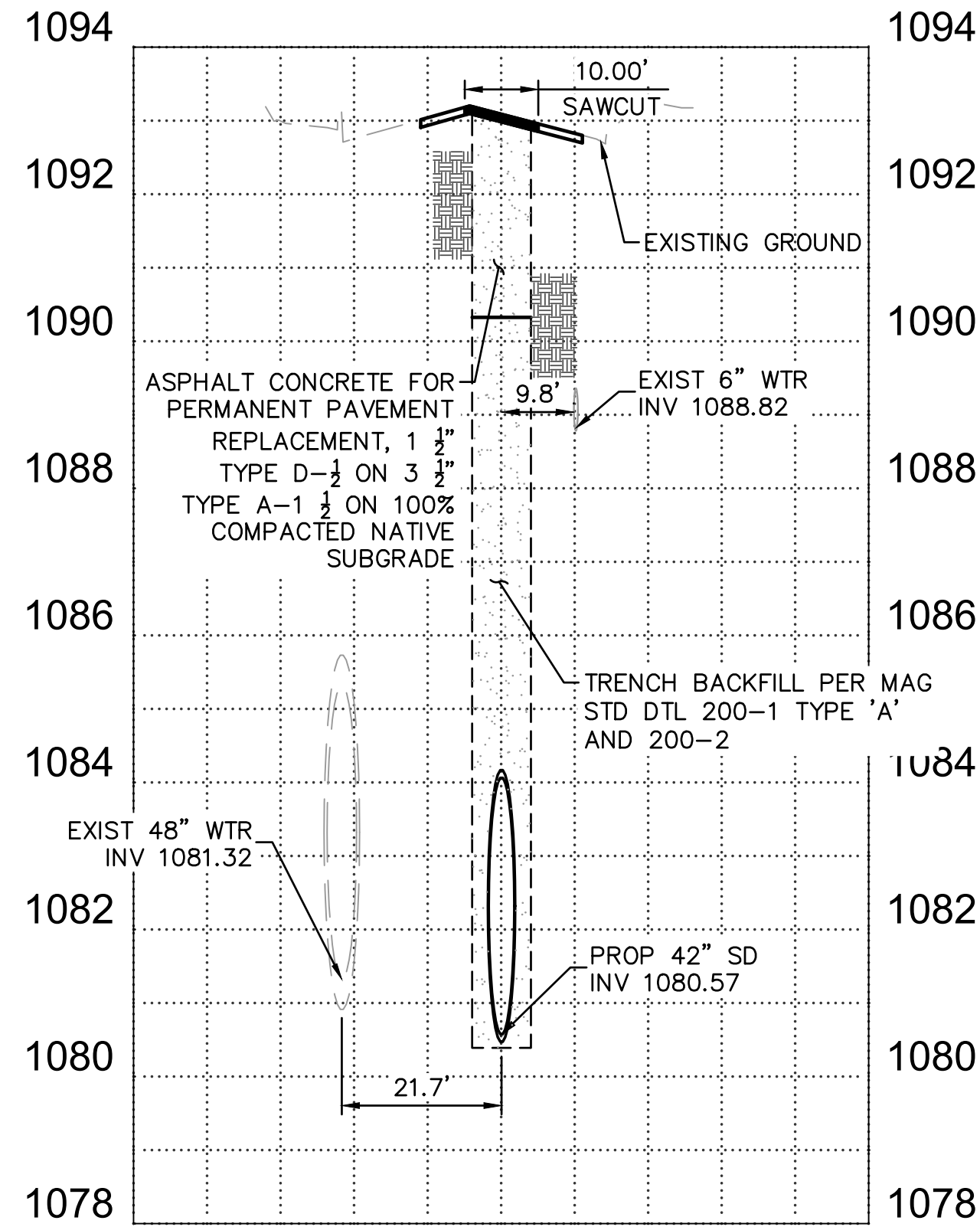
NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

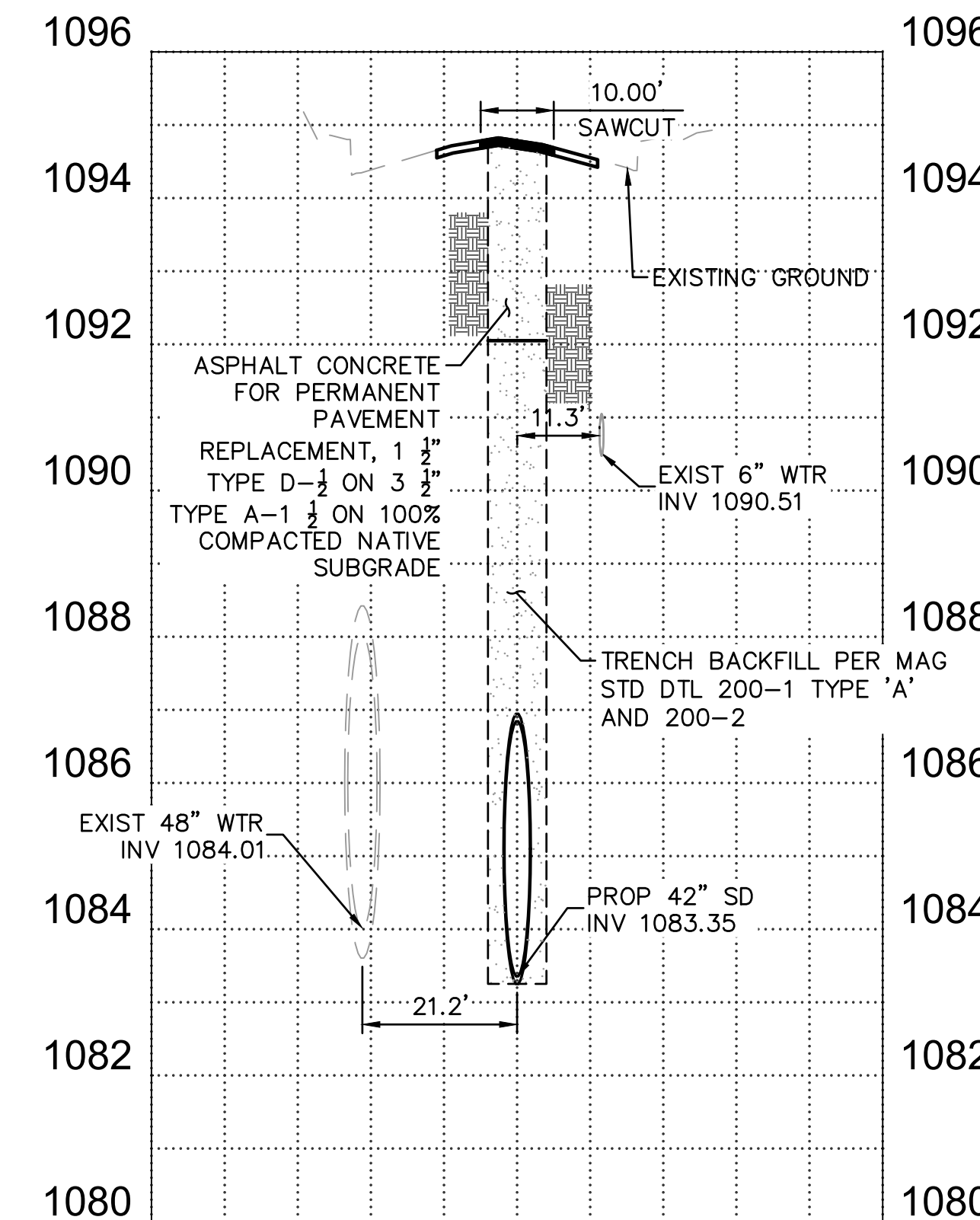
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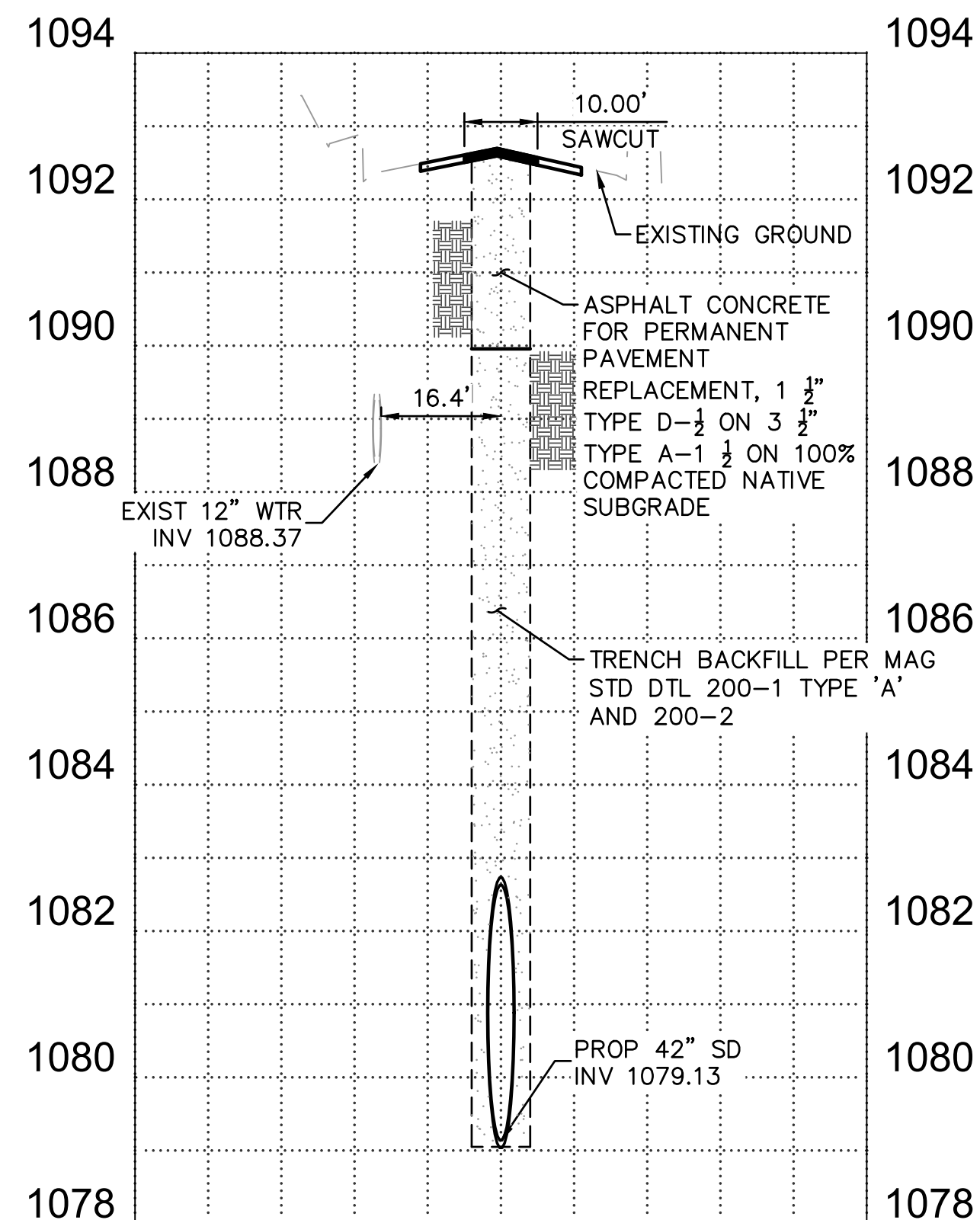
SECTION 1 - STA 301+10



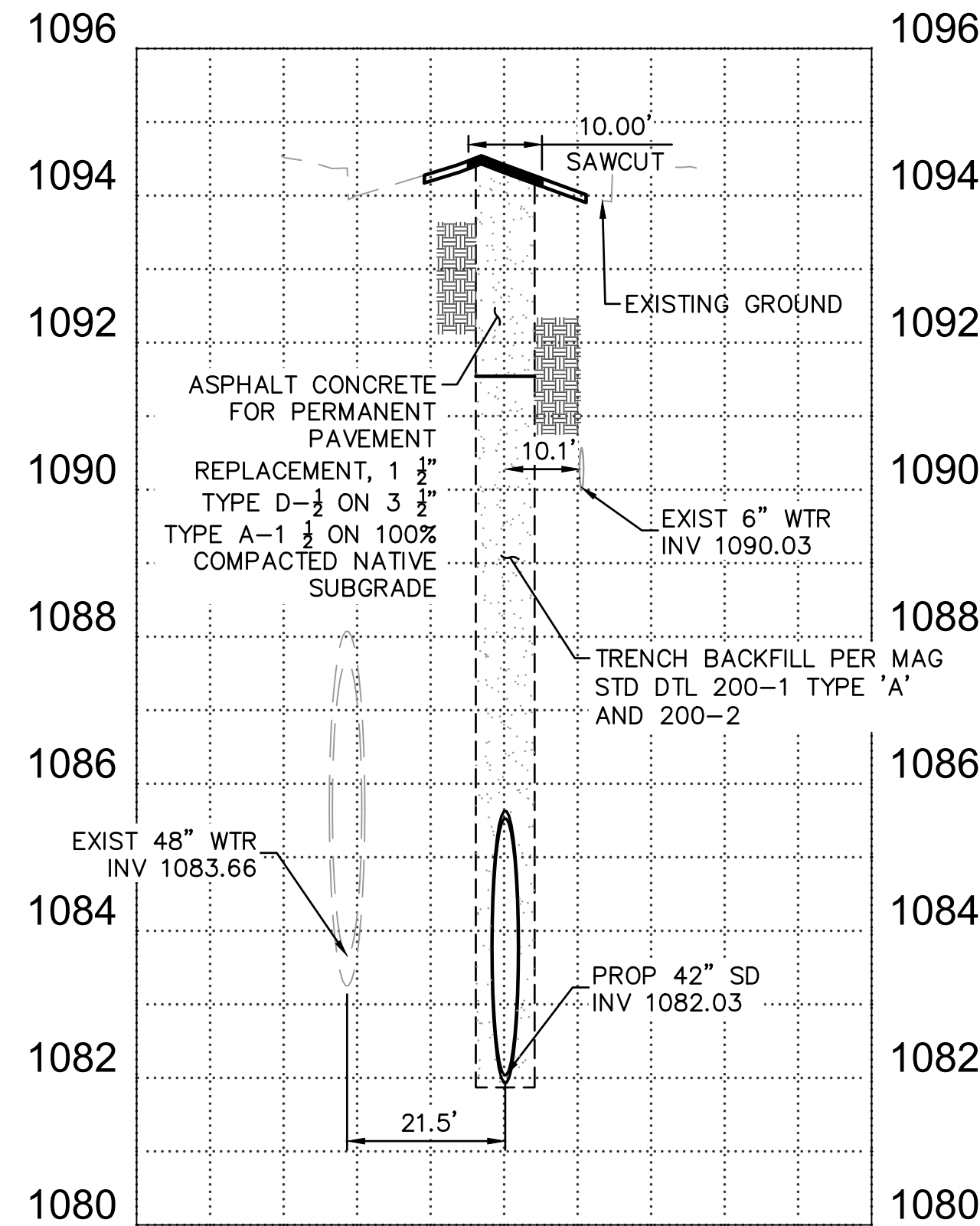
SECTION 3 - STA 308+00



SECTION 5 - STA 316+50



SECTION 2 - STA 304+00



SECTION 4 - STA 313+00

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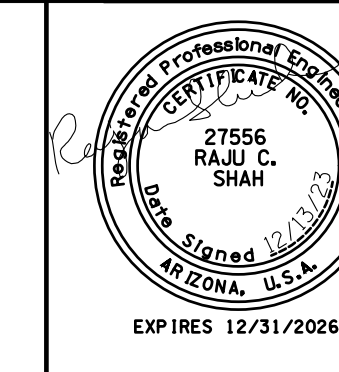
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TYPICAL SECTIONS
 CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT
 MADISON STREET
 16TH STREET TO 18TH STREET
 ST83140111

DR: LA	DES: RS	CK: RS	SHEET NO: 6	TOTAL SHEETS: 43	AS BUILT
DATE: 12/04	DATE: 12/04	DATE: 12/04	SHEET NAME: TS01		

MADISON STREET
PHOENIX - MARICOPA CO.

MATCHLINE STA 302+80 - PP02



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140111	7	43	

12/04 DATE
ARDURRA CONSULTING ENGINEER

DESIGN: RS DRAWN: LA CHECKED: RS

STORM DRAIN PIPE

NO.	STATION TO STATION	SIZE	LF
1	300+22.81 TO 301+89.88, CLASS III RGRCP	30"	160
1A	300+46, CLASS III RGRCP	36"	10
2	301+89.88 TO 302+80.00, CLASS III RGRCP	42"	90
3	400+00.00 TO 400+42.65, CLASS III RGRCP	24"	43

STORM DRAIN MANHOLE

NO.	STATION	TYPE
1	300+22.81	P1560, P1424 & MAG DET 522
2	301+89.88 = 400+00.00	P1520, P1424 & MAG DET 522
3	400+42.68	P1520, P1424 & MAG DET 522

CATCH BASIN & CONNECTOR PIPE

NO.	INLET STATION	INLET TYPE	CONN TYPE	PIPE SIZE	PIPE LF
1N	400+42.66 13.60' L	P1570, TYPE N, SINGLE	MH	18" CLASS III RGRCP	14
1S	400+42.66 32.36' R	P1569-2, M-1, L=10'	MH	18" CLASS III RGRCP	34

REMOVALS & ADJUSTMENTS

NO.	DESCRIPTION	QUANTITY
1	SAWCUT, REMOVE EXISTING AC PAVEMENT	398 SY
2	SAWCUT, REMOVE EXISTING SIDEWALK	87 SF
3	SAWCUT, REMOVE EXISTING CURB AND GUTTER	38 LF
4	SAWCUT, REMOVE EXISTING VALLEY GUTTER	29 SF
5	REMOVE EXISTING MANHOLE	1 EA

CONSTRUCTION NOTES

NO.	DESCRIPTION	QUANTITY
1	INSTALL ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 1 1/2" TYPE D-1/2 ON 3 1/2" TYPE A-1 1/2 ON 100% COMPACTED NATIVE SUBGRADE	398 SY
2	INSTALL CONCRETE SIDEWALK, PER COP STD DTL P-1230	43 SF
3	INSTALL COMBINED CONCRETE CURB & GUTTER, PER MAG STD DTL 220, TYPE "A"	21 LF
4	INSTALL CONCRETE VALLEY GUTTER	29 SF
5	VERTICAL REALIGNMENT OF 8" DIP (CLASS 350) WATERLINE PER COP STD DTL P-1370.	70 LF
8	INSTALL MICRO-SEAL COAT	1820 SY

SEE SHEET 12 FOR C.B. & CONNECTOR PIPE PROFILE

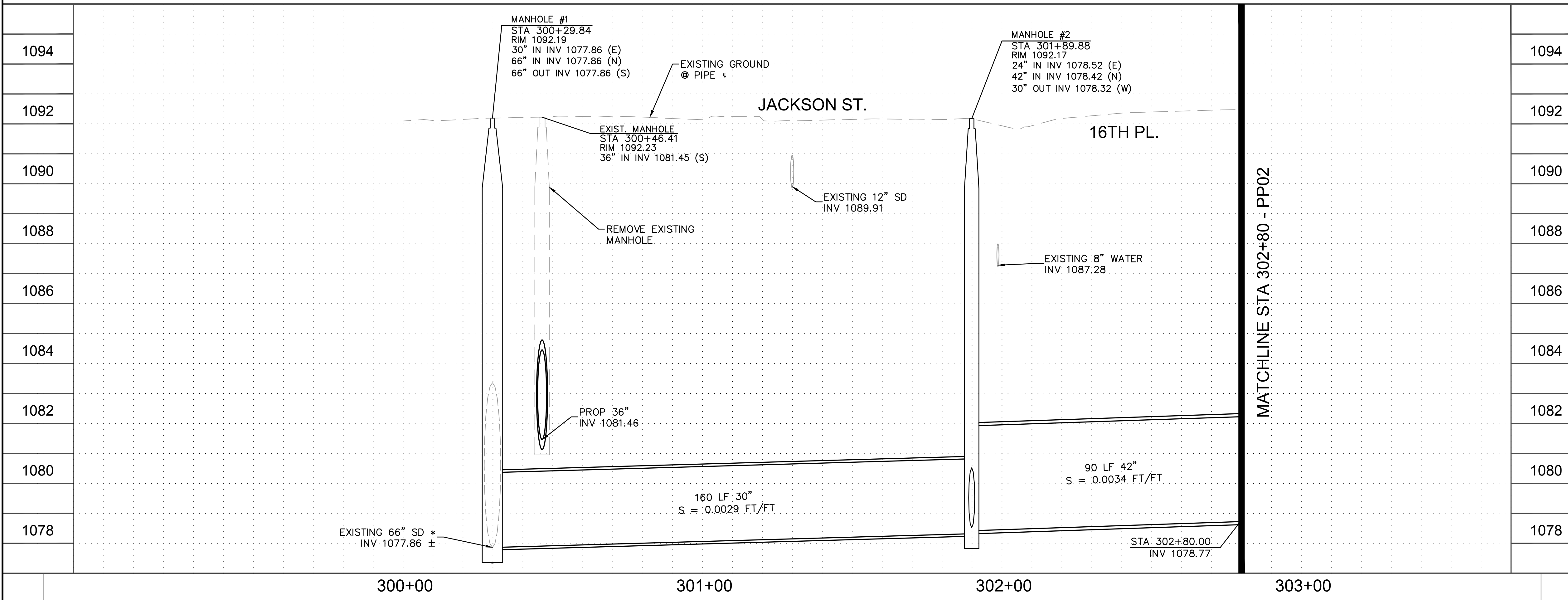
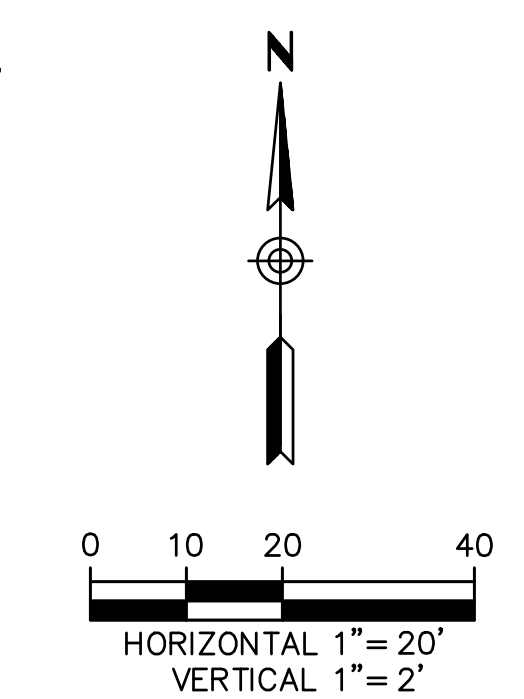
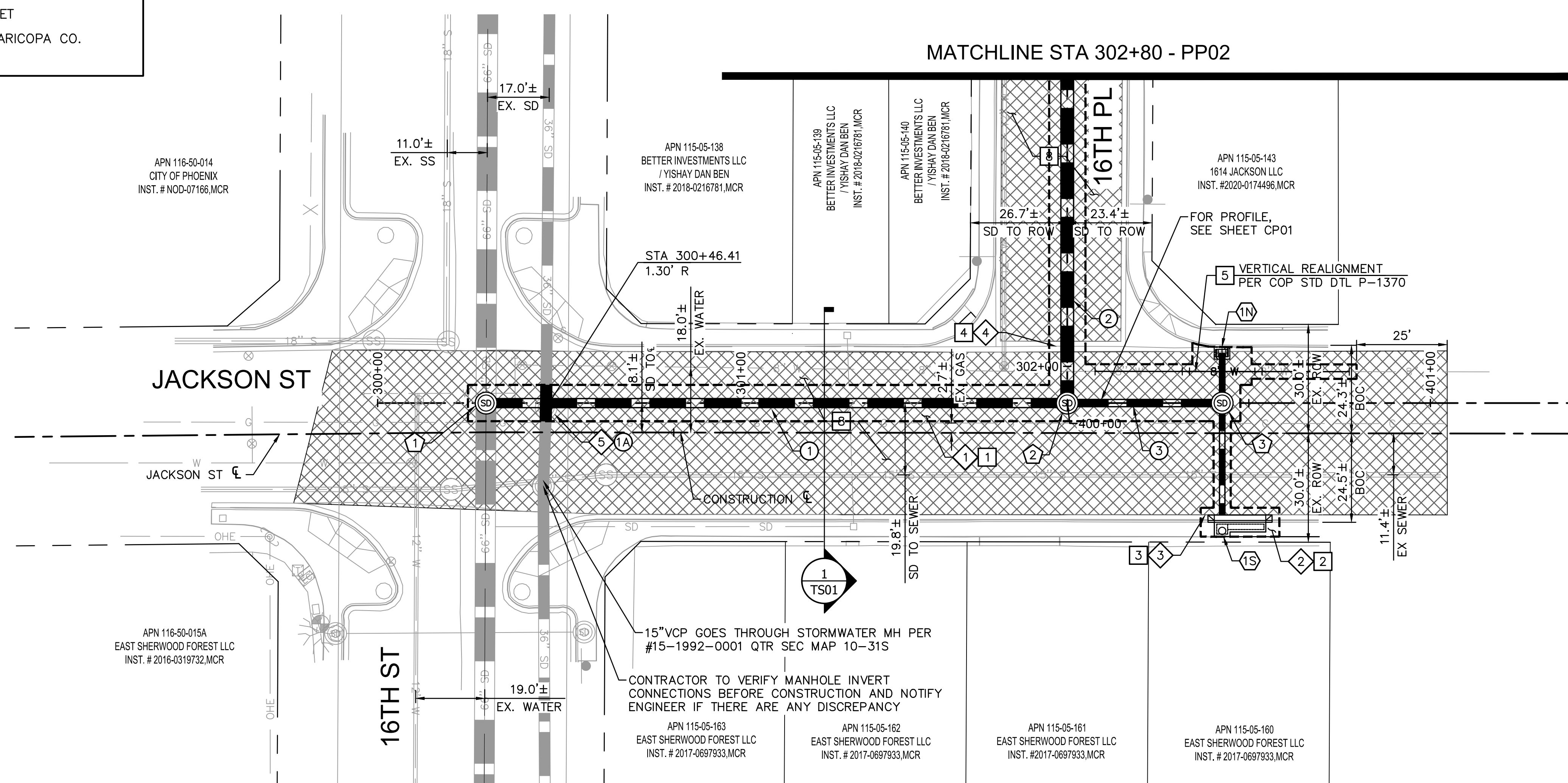
*CONTRACTOR TO VERIFY DEPTH OF 6" STORM DRAIN PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF THERE IS A DISCREPANCY

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



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PLAN AND PROFILE
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
MADISON STREET
16TH STREET TO 18TH STREET
ST83140111

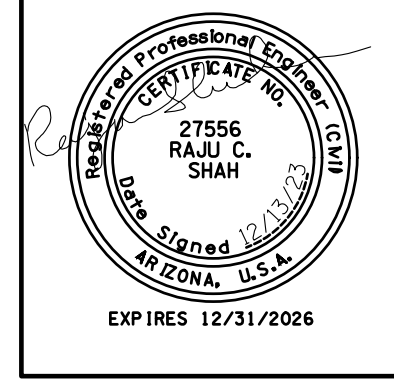
DR: LA	DES: RS	CK: RS	SHEET NO: 7	TOTAL SHEETS: 43	AS BUILT
DATE: 12/04	DATE: 12/04	DATE: 12/04			
SHEET NAME: PP01					

MADISON STREET
PHOENIX - MARICOPA CO.

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140111	8	43	

12/04 DATE
ARDURRA CONSULTING ENGINEER

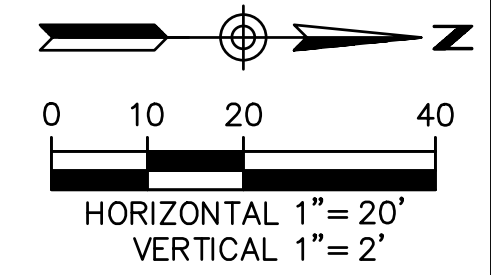
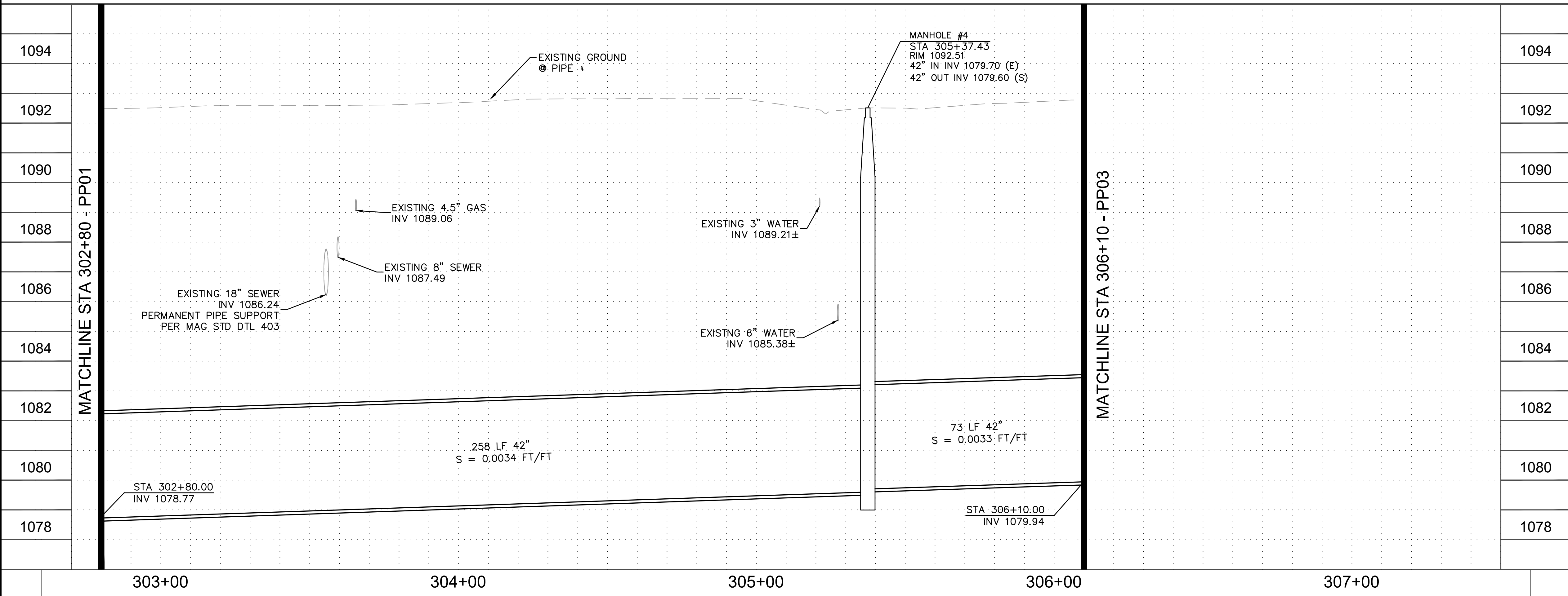
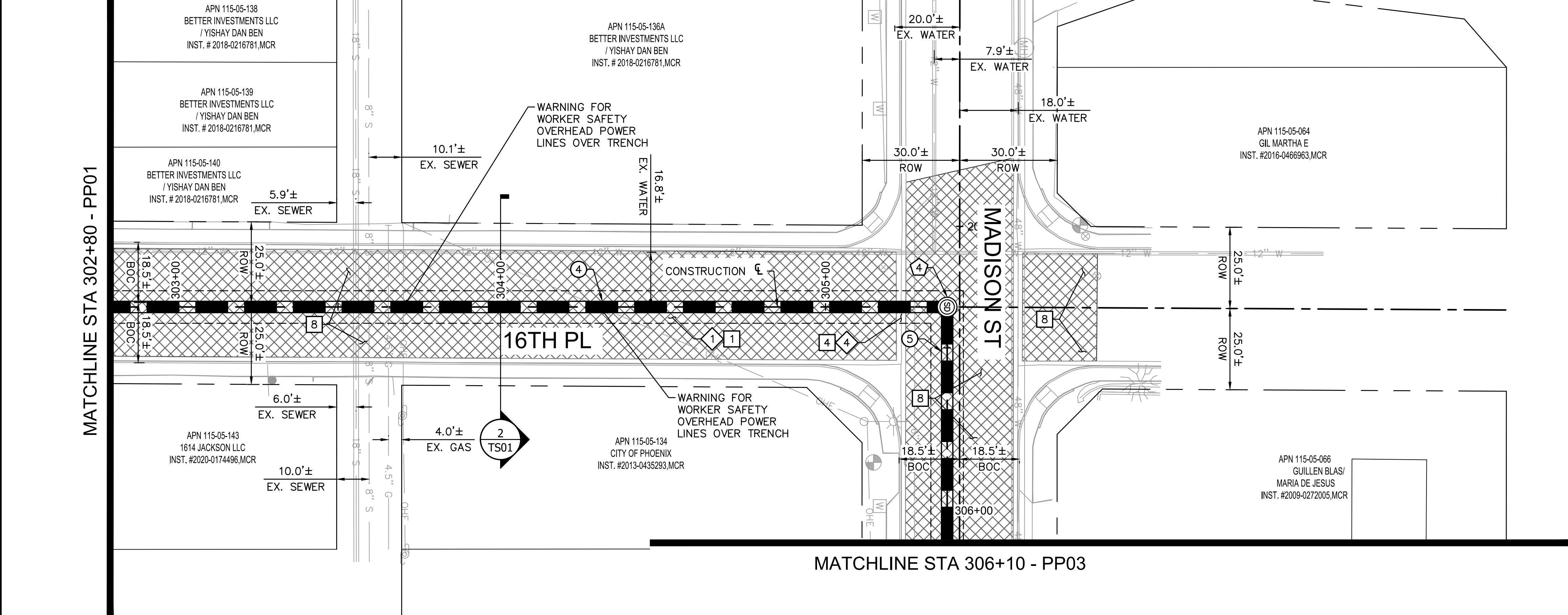
DESIGN: RS DRAWN: LA CHECKED: RS

STORM DRAIN PIPE				
NO.	STATION TO STATION	SIZE	LF	
④	302+80.00 TO 305+37.42, CLASS III RGRCP	42"	258	
⑤	305+37.42 TO 306+10.00, CLASS III RGRCP	42"	73	

STORM DRAIN MANHOLE		
NO.	STATION	TYPE
④	305+37.42	P1520, P1424 & MAG DET 522

REMOVALS & ADJUSTMENTS		
NO.	DESCRIPTION	QUANTITY
①	SAWCUT, REMOVE EXISTING AC PAVEMENT	367 SY
④	SAWCUT, REMOVE EXISTING VALLEY GUTTER	29 SF

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QUANTITY
①	INSTALL ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 1 1/2" TYPE D-1/2 ON 3 1/2" TYPE A-1 1/2 ON 100% COMPACTED NATIVE SUBGRADE	367 SY
④	INSTALL CONCRETE VALLEY GUTTER	29 SF
⑧	INSTALL MICRO-SEAL COAT	1399 SY

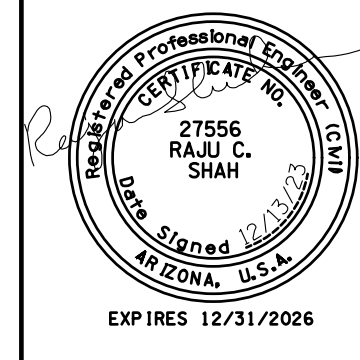


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PLAN AND PROFILE
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
MADISON STREET
16TH STREET TO 18TH STREET
ST83140111

DR:	DES:	CK:	SHEET NO.:	TOTAL SHEETS:	AS BUILT:
LA	RS	RS	8	43	

MADISON STREET
PHOENIX - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140111	9	43	

12/04
DATE
DESIGN: RS
DRAWN: LA
CHECKED: RS

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STORM DRAIN PIPE

NO.	STATION TO STATION	SIZE	LF
①	306+10.00 TO 306+36.37, CLASS III RGRCP	42"	27
⑦	306+36.37 TO 309+23.09, CLASS III RGRCP	42"	287
⑧	309+23.09 TO 310+60.00, CLASS III RGRCP	42"	137

STORM DRAIN MANHOLE

NO.	STATION	TYPE
⑤	306+36.37	P1520, P1424 & MAG DET 522
⑥	309+23.09	P1520, P1424 & MAG DET 522

CATCH BASIN & CONNECTOR PIPE

NO.	INLET STATION	INLET TYPE	CONN TYPE	PIPE	
				SIZE	LF
②N	306+36.37 24.67' L	P1569-2, M-1, L=6'	MH	18" CLASS III RGRCP	23
②S	306+36.36 17.20' R	P1569-2, M-1, L=10'	MH	18" CLASS III RGRCP	16

SEE SHEET 12 FOR C.B. & CONNECTOR PIPE PROFILE

REMOVALS & ADJUSTMENTS

NO.	DESCRIPTION	QUANTITY
①	SAWCUT, REMOVE EXISTING AC PAVEMENT	520 SY
③	SAWCUT, REMOVE EXISTING CURB AND GUTTER	44 LF

CONSTRUCTION NOTES

NO.	DESCRIPTION	QUANTITY
①	INSTALL ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 1 1/2" TYPE D-1/2 ON 3 1/2" TYPE A-1 1/2 ON 100% COMPACTED NATIVE SUBGRADE	520 SY
③	INSTALL COMBINED CONCRETE CURB & GUTTER, PER MAG STD DTL 220, TYPE "A"	8 LF
⑧	INSTALL MICRO-SEAL COAT	1788 SY

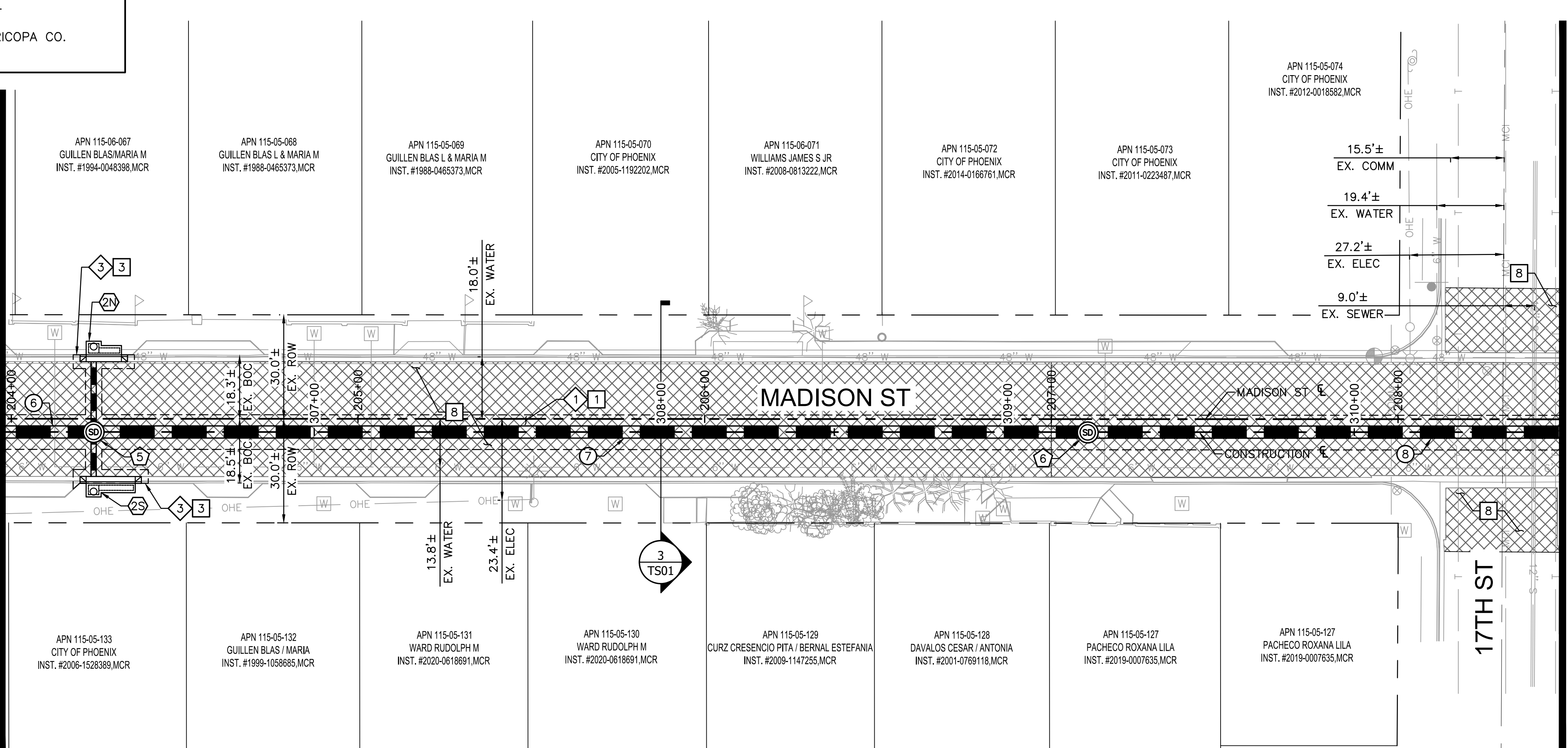
NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

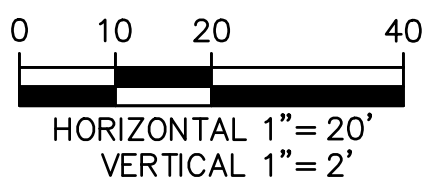
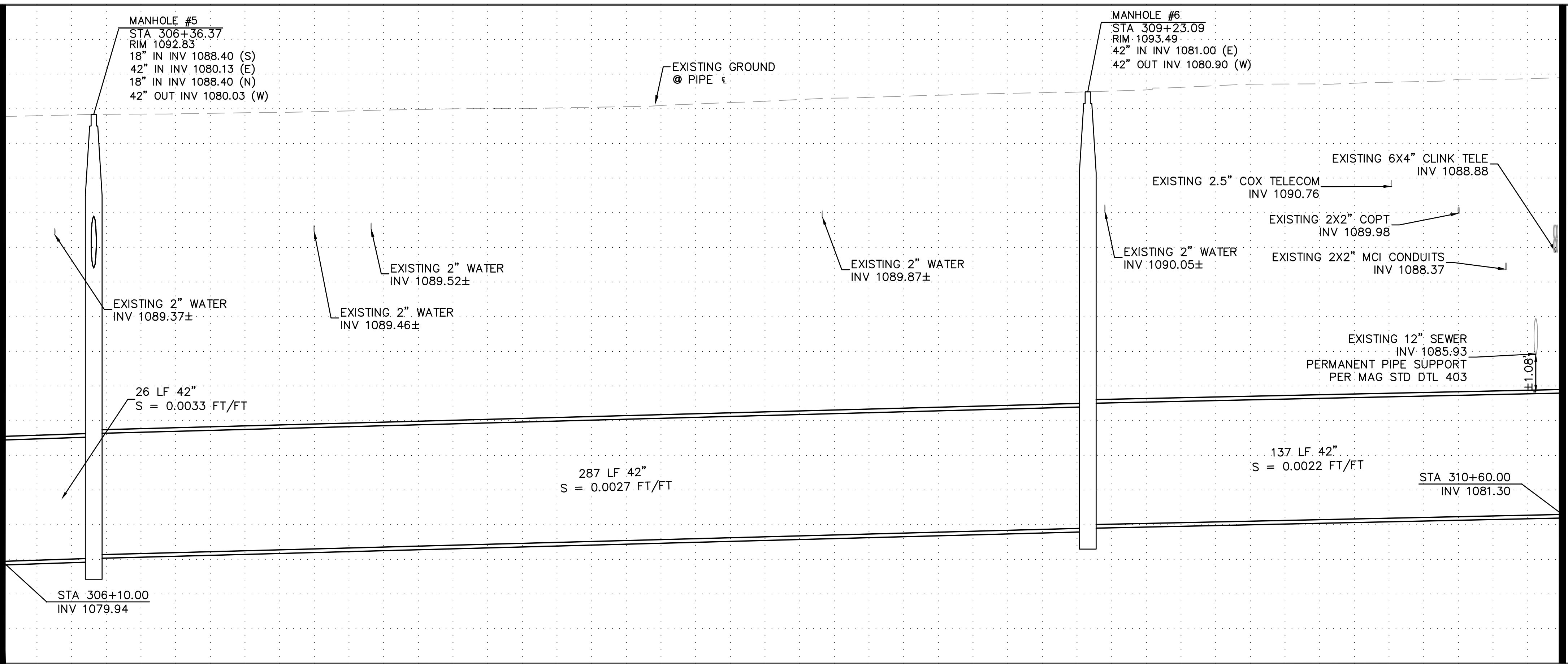
MATCHLINE STA 306+10 - PP02

MATCHLINE STA 310+60 - PP04



MATCHLINE STA 306+10 - PP02

MATCHLINE STA 310+60 - PP04



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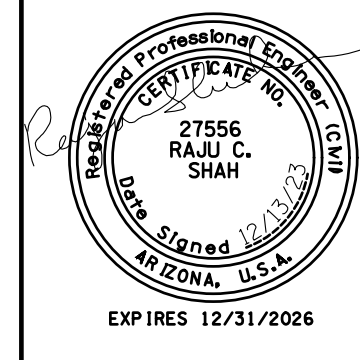
PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

MADISON STREET
16TH STREET TO 18TH STREET
ST83140111

DR: LA	DES: RS	CK: RS	SHEET NO: 9	TOTAL SHEETS: 43	AS BUILT
DATE: 12/04	DATE: 12/04	DATE: 12/04			
SHEET NAME: PP03					

MADISON STREET
PHOENIX - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140111	10	43	

12/04
DATE
ARDURRA
CONSULTING ENGINEER

DESIGN: RS DRAWN: LA CHECKED: RS

STORM DRAIN PIPE

NO.	STATION TO STATION	SIZE	LF
9	310+60.00 TO 312+09.81, CLASS III RGRCP	42"	150
10	312+09.80 TO 315+10.00, CLASS III RGRCP	42"	301

STORM DRAIN MANHOLE

NO.	STATION	TYPE
7	312+09.81	P1520, P1424 & MAG DET 522

CATCH BASIN & CONNECTOR PIPE

NO.	INLET STATION	INLET TYPE	CONN TYPE	PIPE SIZE	LF
3N	312+09.81	P1569-2, 24.36' L	MH	18" CLASS III RGRCP	23
3S	312+09.83	P1569-2, 17.70' R	MH	18" CLASS III RGRCP	16

SEE SHEET 13 FOR C.B. & CONNECTOR PIPE PROFILE

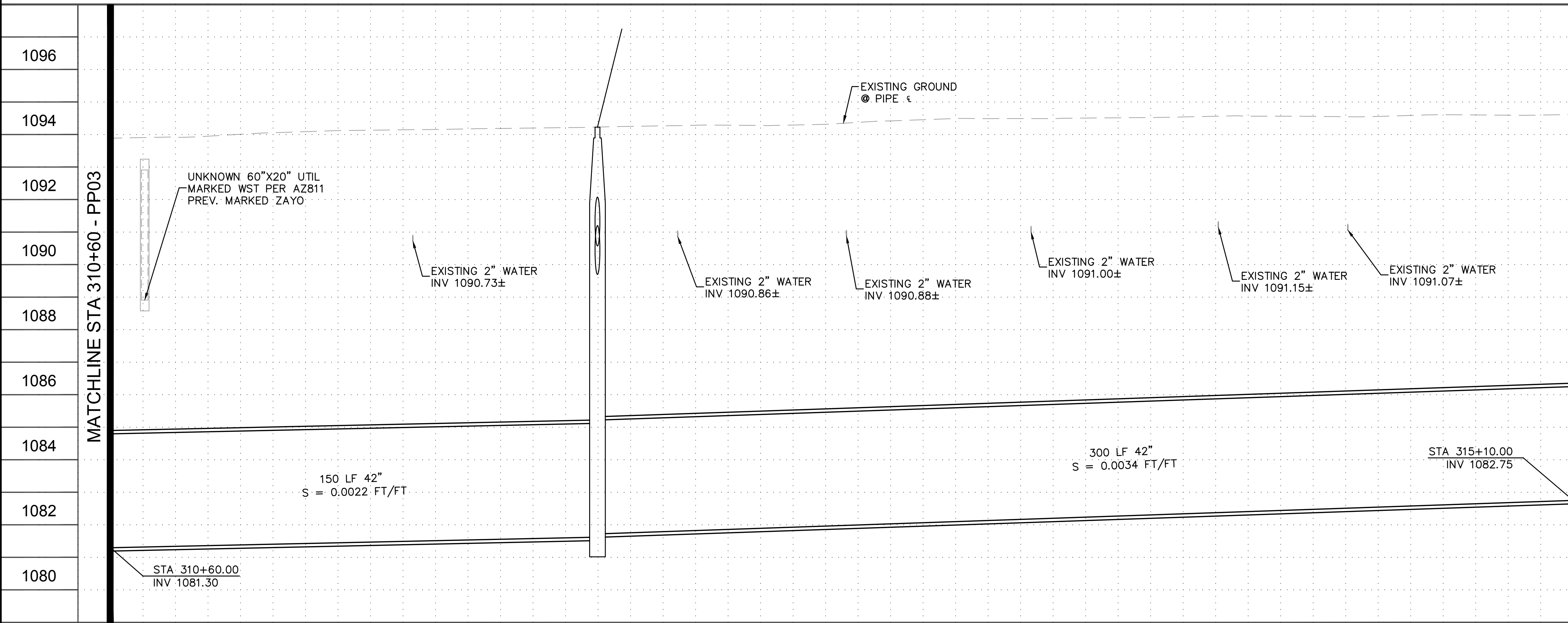
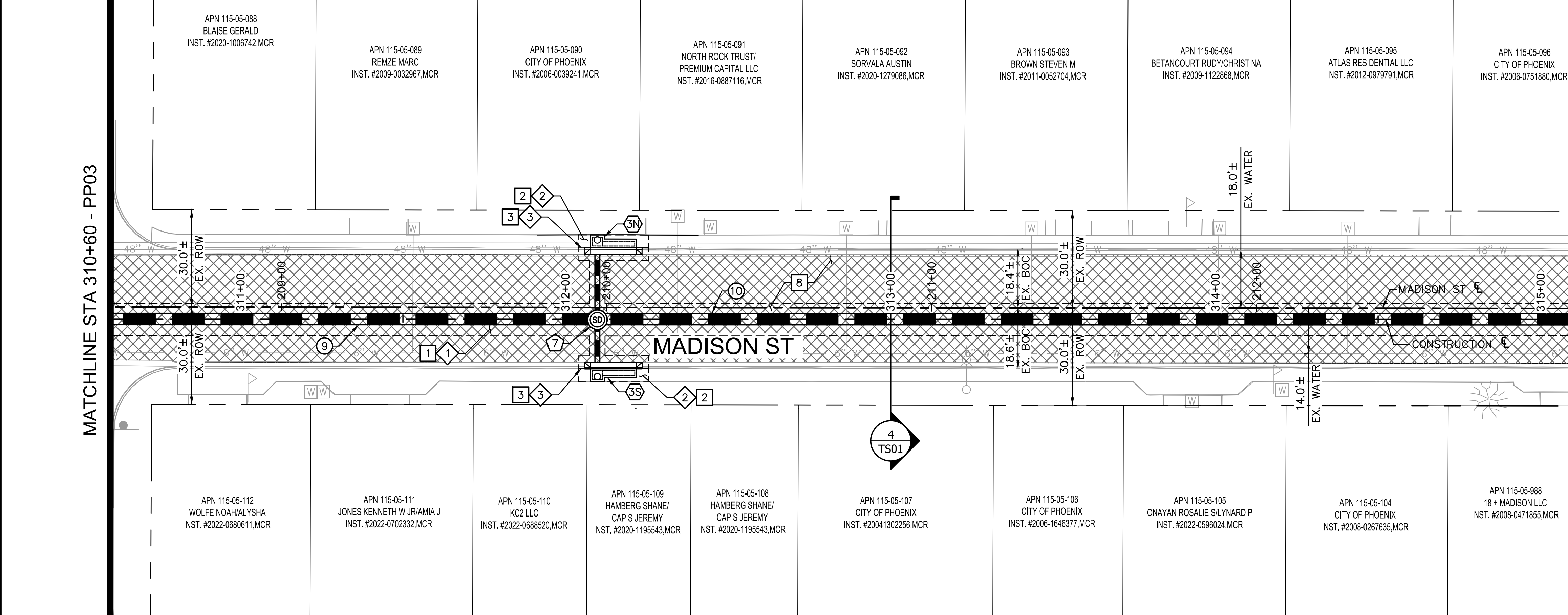
REMOVALS & ADJUSTMENTS

NO.	DESCRIPTION	QUANTITY
1	SAWCUT, REMOVE EXISTING AC PAVEMENT	520 SY
2	SAWCUT, REMOVE EXISTING SIDEWALK	174 SF
3	SAWCUT, REMOVE EXISTING CURB AND GUTTER	44 LF

CONSTRUCTION NOTES

NO.	DESCRIPTION	QUANTITY
1	INSTALL ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 1 1/2" TYPE D-1/2 ON 3 1/2" TYPE A-1 1/2 ON 100% COMPACTED NATIVE SUBGRADE	520 SY
2	INSTALL CONCRETE SIDEWALK, PER COP STD DTL P-1230	85 SF
3	INSTALL COMBINED CONCRETE CURB & GUTTER, PER MAG STD DTL 220, TYPE "A"	8 LF
8	INSTALL MICRO-SEAL COAT	1664 SY

REVISION BY CITY OF PHOENIX	DESCRIPTION	NO.	REV BY	CHK BY	DATE



HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

0 10 20 40

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PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

MADISON STREET
16TH STREET TO 18TH STREET
ST83140111

DR: LA	DES: RS	CK: RS	SHEET NO: 10	TOTAL SHEETS: 43	AS BUILT
DATE: 12/04	DATE: 12/04	DATE: 12/04	SHEET NAME: PP04		

MADISON STREET
PHOENIX - MARICOPA CO.

APN 115-05-098A
GIANT STRIDE LLC/
AT PROPERTIES LLC
INST. #2014-0505175.MCR

APN 115-05-097
GIANT STRIDE LLC/
AT PROPERTIES LLC
INST. #2014-0505175.MCR

APN 115-05-098B
GIANT STRIDE LLC/
AT PROPERTIES LLC
INST. #2014-0505175.MCR

APN 115-05-099
GIANT STRIDE LLC/
AT PROPERTIES LLC
INST. #2014-0505175.MCR

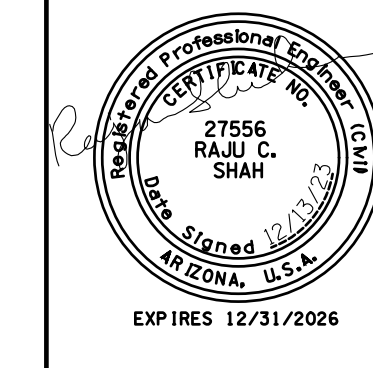
APN 115-06-051A
WALL THEODORE R/SARA M
INST. #2012-0138977.MCR

APN 115-05-988
18 + MADISON LLC
INST. #2008-0471855.MCR

APN 115-06-119B
DAKE PROPERTIES LLC
INST. #2010-0750455.MCR



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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140111	11	43	

12/04
DATE
ARDURRA
CONSULTING ENGINEER

DESIGN: RS DRAWN: LA CHECKED: RS

STORM DRAIN PIPE

NO.	STATION TO STATION	SIZE	LF
11	315+10.00 TO 316+41.04, CLASS III RGRCP	42"	131
12	316+41.04 TO 317+00.45, CLASS III RGRCP	42"	60
13	317+00.45 TO 317+52.78, CLASS III RGRCP	24"	53

STORM DRAIN MANHOLE

NO.	STATION	TYPE
8	316+41.04	P1520, P1424 & MAG DET 522
9	317+52.78	P1520, P1424 & MAG DET 522

CATCH BASIN & CONNECTOR PIPE

NO.	INLET STATION	INLET TYPE	CONN TYPE	PIPE SIZE	LF
4N	316+41.04 25.50' L	P1569-2, M-1, L=10'	MH	18" CLASS III RGRCP	24
4S	316+40.96 19.25' R	P1569-2, M-1, L=10'	MH	18" CLASS III RGRCP	18
5N	317+52.64 25.94' L	P1569-2, M-1, L=10'	MH	18" CLASS III RGRCP	24
5S	317+52.65 19.84' R	P1569-2, M-1, L=10'	MH	18" CLASS III RGRCP	18

REMOVALS & ADJUSTMENTS

NO.	DESCRIPTION	QUANTITY
1	SAWCUT, REMOVE EXISTING AC PAVEMENT	318 SY
2	SAWCUT, REMOVE EXISTING SIDEWALK	347 SF
3	SAWCUT, REMOVE EXISTING CURB AND GUTTER	88 LF
4	SAWCUT, REMOVE EXISTING VALLEY GUTTER	58 SF
5	REMOVE PIPE PLUG	2 EA

CONSTRUCTION NOTES

NO.	DESCRIPTION	QUANTITY
1	INSTALL ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 1 1/2" TYPE D-1/2 ON 3 1/2" TYPE A-1 1/2 ON 100% COMPACTED NATIVE SUBGRADE	318 SY
2	INSTALL CONCRETE SIDEWALK, PER COP STD DTL P-1230	170 SF
3	INSTALL COMBINED CONCRETE CURB & GUTTER, PER MAG STD DTL 220, TYPE "A"	16 LF
4	INSTALL CONCRETE VALLEY GUTTER	58 SF
6	INSTALL PIPE COLLAR PER MAG STD DET 505 AND CONNECT STORM DRAIN TO EXISTING STUB-OUT	2 EA
7	REMOVE EXISTING PUMPS AND DISCONNECT ELECTRICAL LINES	1 EA
8	INSTALL MICRO-SEAL COAT	127 SY

SEE SHEET 13 FOR C.B. & CONNECTOR PIPE PROFILE
*CONTRACTOR TO VERIFY ELEVATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF THERE IS A DISCREPANCY



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PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

MADISON STREET
16TH STREET TO 18TH STREET
ST83140111

DR: LA	DES: RS	CK: RS	SHEET NO: 11	TOTAL SHEETS: 43	AS BUILT
DATE: 12/04	DATE: 12/04	DATE: 12/04	SHEET NAME: PP05		

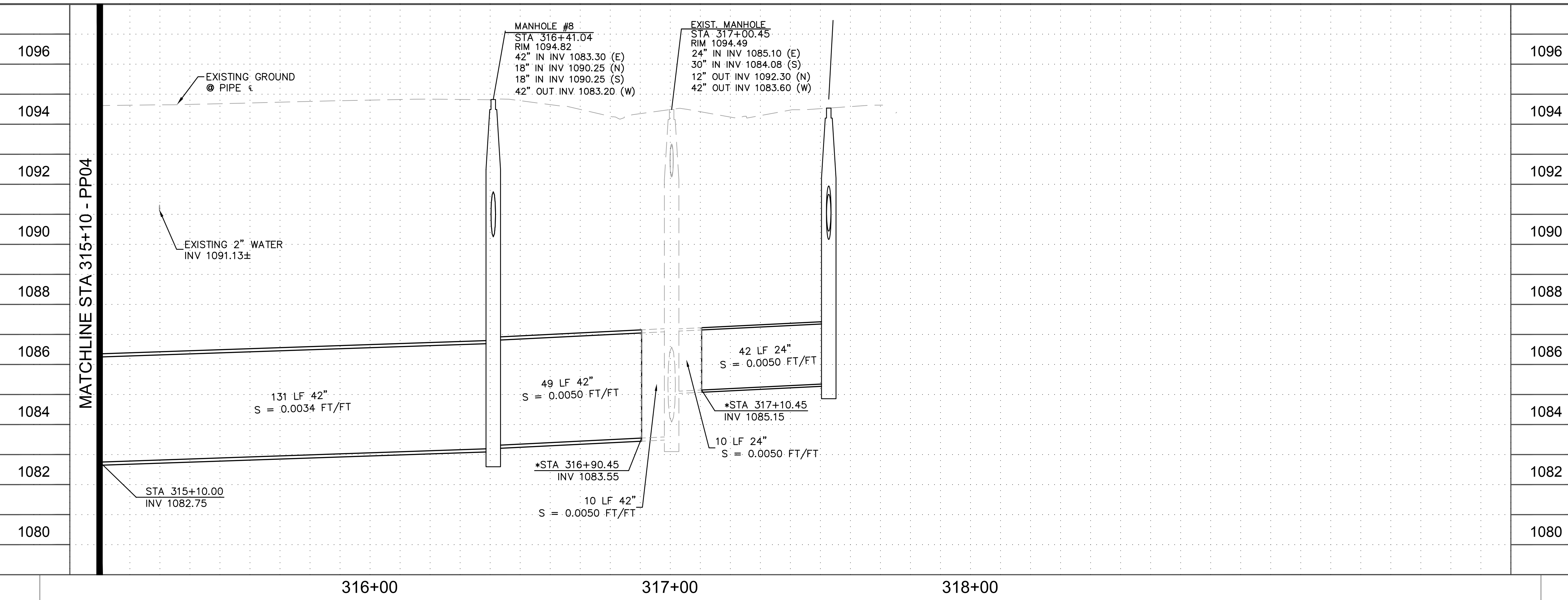
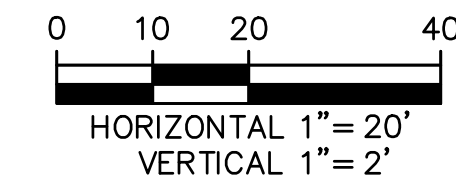
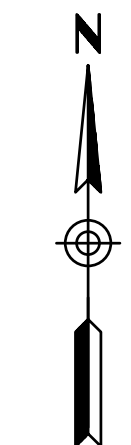
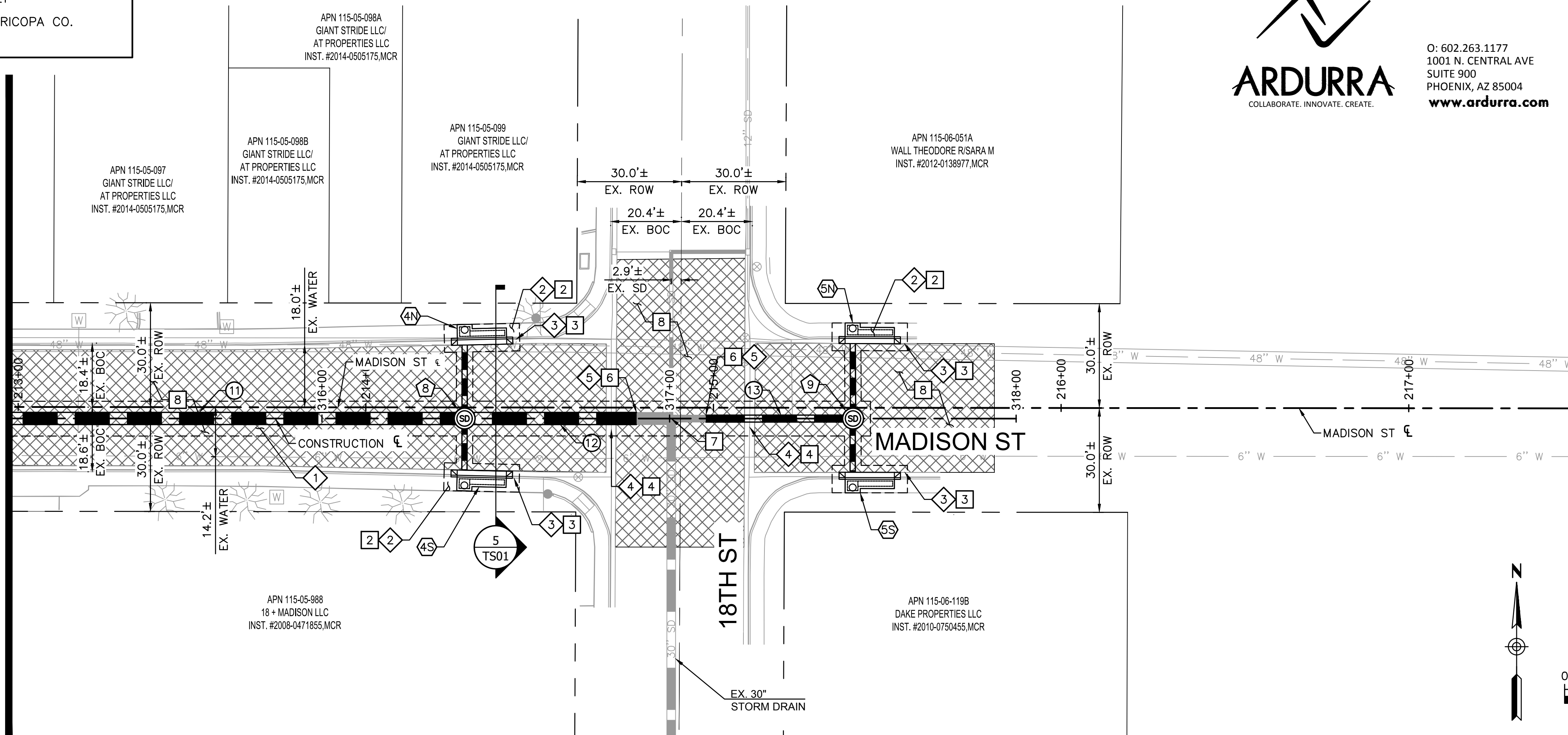
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NO.	DESCRIPTION	REV BY	CHK BY	DATE

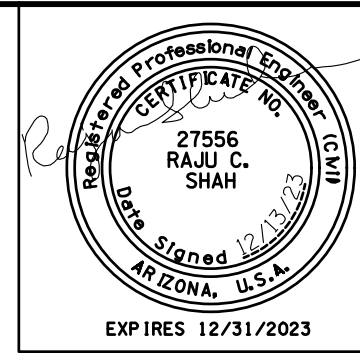
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MATCHLINE STA 315+10 - PP04

MATCHLINE STA 315+10 - PP04

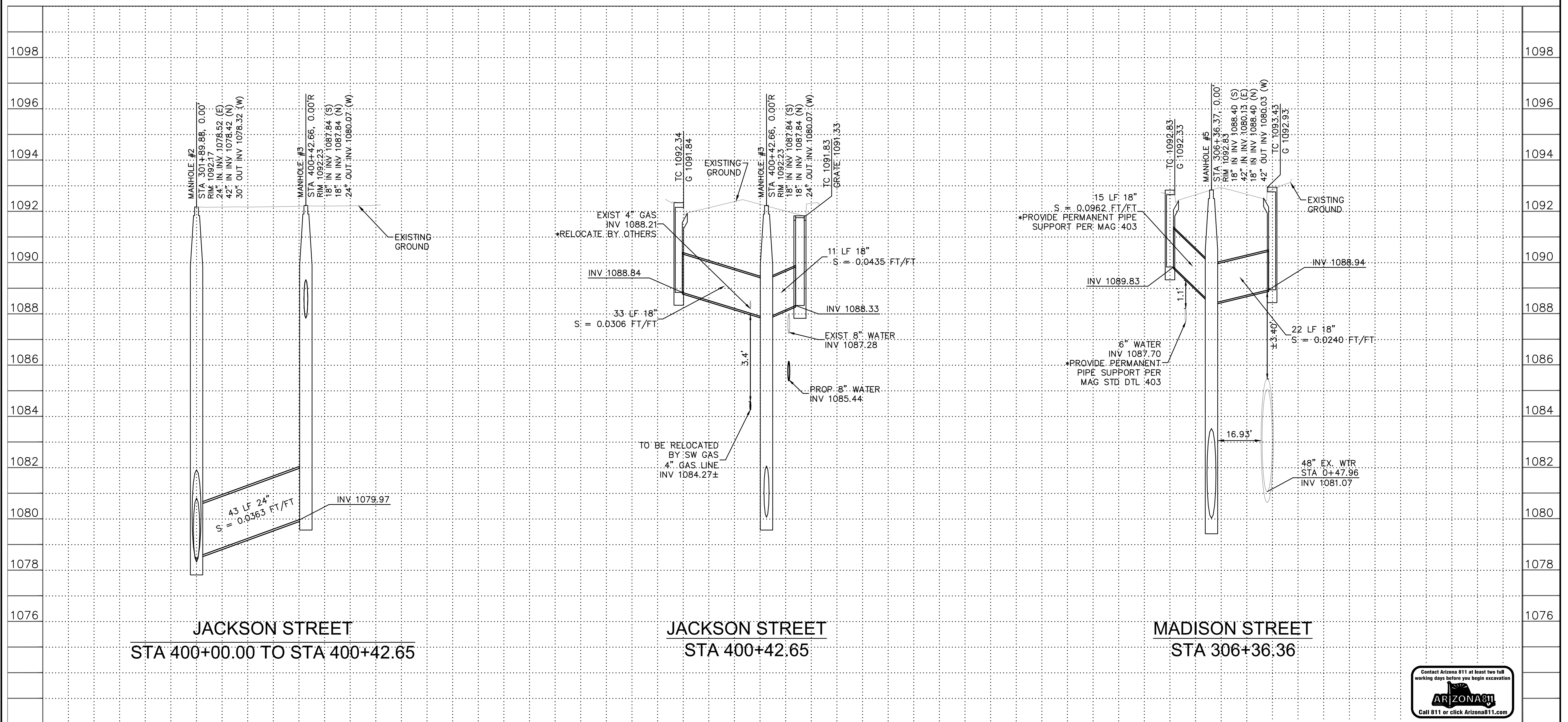


MADISON STREET
PHOENIX - MARICOPA CO.
16TH ST TO 18TH ST



F.H.W.A. REGION 9	STATE ARIZ.	PROJECT NO. ST83140111	SHEET NO. 12	TOTAL SHEETS 43	AS BUILT
DATE 12/04			CONSULTING ENGINEER ARDURRA		
DESIGN: RS		DRAWN: LA		CHECKED: RS	

REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION
REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION
REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION



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

CONNECTOR PIPE PROFILES

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

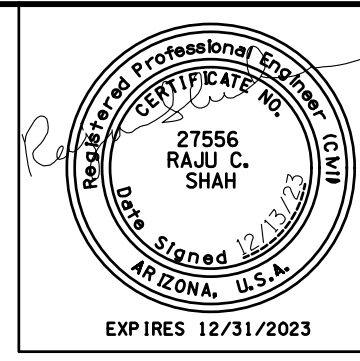
MADISON STREET
16TH STREET TO 18TH STREET
ST83140111

DR: LA	DES: RS	CK: RS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 12/04	DATE: 12/04	DATE: 12/04	12	43	
SHEET NAME CP01			12	43	

SCALE: 1" = 20' HORIZONTAL
2" VERTICAL

DRAWING FILE NAME, REVISION DATE

MADISON STREET
PHOENIX - MARICOPA CO.
16TH ST TO 18TH ST

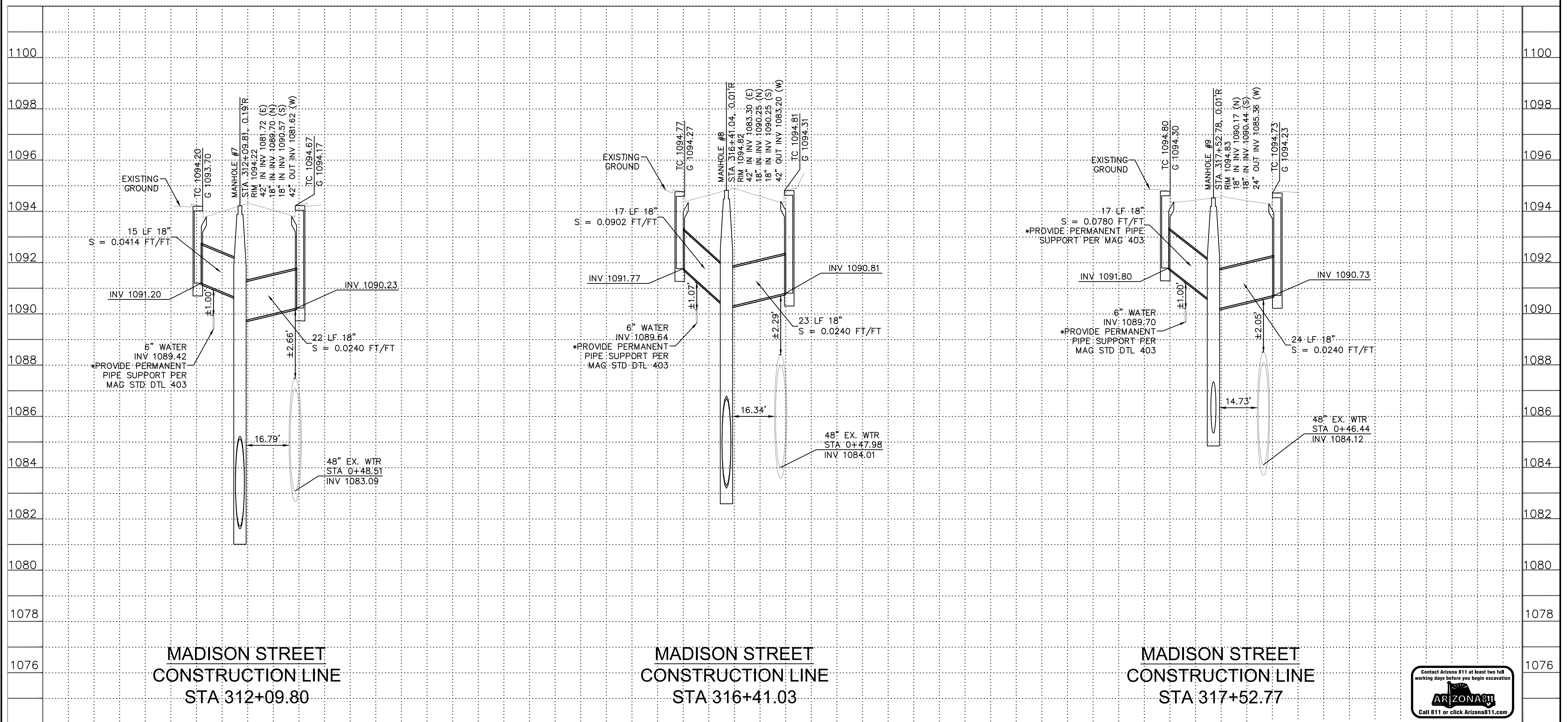


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140111	13	43	
DATE		ARDURRA CONSULTING ENGINEER			
DESIGN: RS	DRAWN: LA	CHECKED: RS			

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



**MADISON STREET
CONSTRUCTION LINE
STA 312+09.80**

**MADISON STREET
CONSTRUCTION LINE
STA 316+41.03**

**MADISON STREET
CONSTRUCTION LINE
STA 317+52.77**



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CONNECTOR PIPE PROFILES					
CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT					
MADISON STREET 16TH STREET TO 18TH STREET ST83140111					
DR: LA	DES: RS	CK: RS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 12/04	DATE: 12/04	DATE: 12/04	NO:	13	43
SHEET NAME		CP02		13	43

SCALE: 1" = 20' HORIZONTAL
2" VERTICAL

DRAWING FILE NAME, REVISION DATE

CITY OF PHOENIX

STREET TRANSPORTATION DEPARTMENT

DESIGN & CONSTRUCTION MANAGEMENT DIVISION

2021 ARPA LOCAL DRAINAGE MITIGATION PACKAGE 2

18TH ST AND JACKSON ST

ST83140113

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST83140113	14	43	
ARDURRA CONSULTING ENGINEER					
DES: RS	DR: LA	CK: RS	DATE: 11/22		

MAYOR
KATE GALLEGO

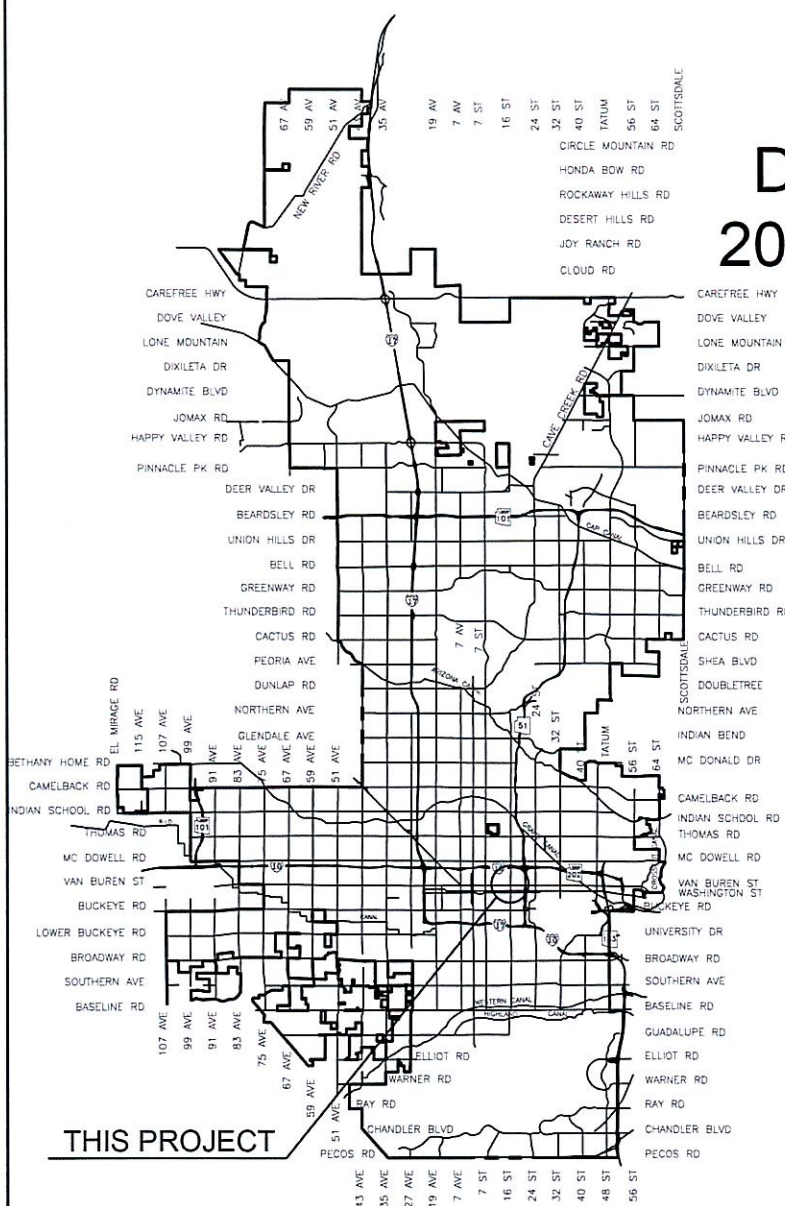
CITY MANAGER
JEFFREY BARTON

CITY COUNCIL

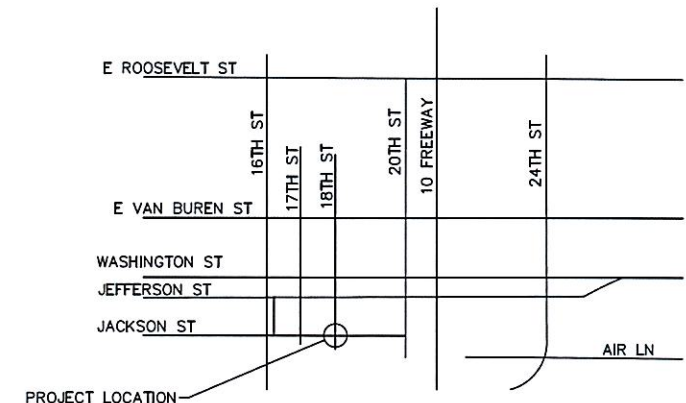
- DISTRICT NO 1. ANN O'BRIEN
- DISTRICT NO 2. JIM WARING
- DISTRICT NO 3. DEBRA STARK
- DISTRICT NO 4. LAURA PASTOR
- DISTRICT NO 5. BETTY GUARDADO
- DISTRICT NO 6. KEVIN ROBINSON
- DISTRICT NO 7. YASSAMIN ANSARI
- DISTRICT NO 8. KESHA HODGE WASHINGTON

INDEX OF SHEETS

14	COVER SHEET
15	LEGEND AND NOTES SHEET
16	DRAINAGE SUMMARY SHEET
17	GEOMETRIC CONTROL SHEET
18	PLAN/PROFILE SHEET



VICINITY MAP
NTS



LOCATION MAP



2024

LENGTH:

48.97 LF

DISTURBED AREA:

0.0248 ACRES


City Benchmark:


BENCHMARK NO. 1
3" CITY OF PHOENIX BRASS CAP IN HAND HOLE
LOCATED AT THE INTERSECTION OF 20TH STREET AND
ROOSEVELT STREET
(NGVD 29) ELEVATION=1105.78'

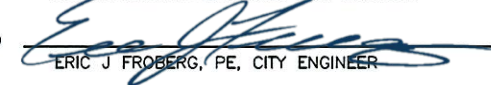
BENCHMARK NO. 2
SRWUA BRASS CAP ON WESTSIDE OF IRRIGATION GATE
LOCATED AT THE NORTHEAST CORNER INTERSECTION OF 24TH
STREET AND AIRLANE
(NGVD 29) ELEVATION=1106.50'


AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE AS-BUILT (AB)
MEASUREMENTS AS SHOWN HEREON WERE MADE
UNDER MY DIRECT SUPERVISION AND ARE CORRECT
TO THE BEST OF MY KNOWLEDGE AND BELIEF.

APPROVED 
WATER SERVICES DEPARTMENT

APPROVED 
NAZAR NABATY, PE, FLOODPLAIN MANAGER

APPROVED 
ERIC J FROBERG, PE, CITY ENGINEER


DATE
6/24/2024

6/25/2024
DATE

06/26/2024
DATE

PREPARED FOR
CITY OF PHOENIX
STREET TRANSPORTATION DEPT.
200 WEST WASHINGTON STREET
PHOENIX, AZ 85003-1611
PHONE: 602-495-5938
CONTACT: RYAN BENTZ
EMAIL: RYAN.BENTZ@PHOENIX.GOV

PREPARED BY
ARDURRA
1001 N CENTRAL AVE
SUITE 900
PHOENIX, AZ 85004
PHONE: 602-236-1177
CONTACT: RAJ SHAH
EMAIL: RSHAH@ARDURRA.COM



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

Q.S. 10-31

100 % SUBMITTAL

ST83140113

DRAWING FILE NAME, REVISION DATE

JACKSON STREET AND
18TH STREET INTERSECTION
PHOENIX – MARICOPA CO.

LEGEND, ABBREVIATIONS AND NOTES

NOTES

ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CONTRACT SPECIAL PROVISIONS AND DETAILS, 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.

ALL STORM SEWER MANHOLES ARE TO BE CONSTRUCTED WITHOUT STEPS. 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.

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 P-1576.

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 M.A.G. DETAIL 505. ANY ANGLE BENDS GREATER THAN 22-1/2" SHALL BE PREFABRICATED. CONNECTOR PIPES SHALL CONNECT TO CATCH BASIN WALLS AT AN ANGLE NOT TO EXCEED 22-1/2" FROM PERPENDICULAR.

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. TWO WORKING DAYS BEFORE CONSTRUCTION, THE CONTRACTOR SHALL CONTACT BLUESTAKE TO FIND AND FLAG UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT OTHER APPROPRIATE UTILITIES DIRECTLY IF THEY ARE NOT ON BLUESTAKE SYSTEM.

VERTICAL CONTROL IS BASED ON PHOENIX DATUM NGVD-29

UNLESS OTHERWISE NOTED, STATIONS SHOWN ON PIPE PROFILES ARE ALONG CENTERLINE OF PIPE. UNLESS OTHERWISE NOTED, PIPE SHALL BE BEDDED IN ACCORDANCE WITH CITY OF PHOENIX DETAIL P1200.

CATCH BASINS ARE STATIONED PERPENDICULAR TO THE CENTERLINE OF THE STREET AT THE CENTERLINE OF THE MAINTENANCE BASIN.

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.

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.

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.

ALL EXISTING DRIVEWAYS AND ALL EXISTING ALLEYS SHALL BE GRADED TO MATCH THE NEW WORK IN ACCORDANCE WITH STD. DETAIL P-1164, UNLESS OTHERWISE SPECIFIED. EXISTING SURFACING SHALL BE REMOVED AND REPLACED AS NECESSARY.

UNLESS OTHERWISE PROVIDED ON THE PLANS, EXISTING A.C. OR P.C.C. DRIVEWAYS AND SIDEWALKS WHICH FALL WITHIN OR ABOUT THE RIGHT OF WAY SHALL BE CONNECTED TO THE NEW WORK AS FOLLOWS:

THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING A.C. DRIVEWAYS SHALL BE FILLED WITH A MINIMUM OF 3" A.C.S.C. ON 100% COMPACTED NATIVE SOIL. WHERE EXISTING PAVEMENT AND BASE THICKNESS EXCEED THE MINIMUMS, MATCH THE EXISTING.

THE SPACE BETWEEN THE BACK OF NEW SIDEWALKS AND EXISTING PRIVATE SIDEWALKS, AND THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING P.C.C. DRIVEWAYS SHALL BE FILLED WITH P.C.C.. THE THICKNESS AND CLASS SHALL MATCH THAT OF THE NEW SIDEWALK OR DRIVEWAY ENTRANCE.

UNLESS OTHERWISE PROVIDED ON THE PLANS, THE SPACE BETWEEN THE BACK OF THE NEW SIDEWALKS, AND EXISTING A.C. PARKING LOTS, WHICH FALL WITHIN OR ABOUT THE R/W SHALL BE FILLED WITH 2" A.C.S.C. ON 100% COMPACTED NATIVE SOIL.

EXISTING IRRIGATION BERMS DISTURBED BY NEW CONSTRUCTION SHALL BE RECONSTRUCTED AS SHOWN ON PLANS.

M.A.G. ALLEY ENTRANCE DETAILS 260, 261, 262 AND 263, WHICH ARE INDICATED TO BE MODIFIED ON THESE PLANS SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL NUMBER EXCEPT THAT THE SLAB SHALL BE 9" THICK. DRIVEWAYS DESIGNATED ON THE PLANS AS M.A.G. DETAILS 250 AND 251 SHALL BE RESIDENTIAL DRIVEWAYS 5" THICK. ALL OTHER DRIVEWAYS SHALL BE CITY OF PHOENIX DETAILS P1255.

CATCH BASIN ACCESS FRAME AND COVERS SHALL BE CONSTRUCTED PER C.O.P. DETAIL P1561.

STRUCTURAL NOTES

"CLEAR" DIMENSIONS FOR DEPTH OF REINFORCING STEEL ARE FROM FACE OF CONCRETE TO FACE OF BARS.

ALL EXPOSED EDGES OF CONCRETE SHALL BE BEVELED OR ROUNDED.

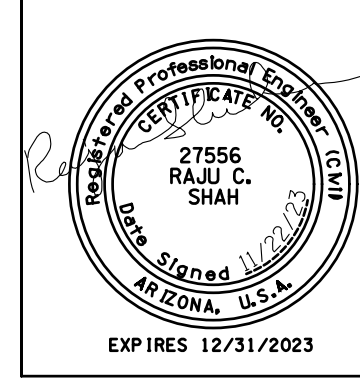
ALL EXPOSED CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH ARIZONA DEPT. OF TRANSPORTATION STANDARD SPECIFICATION 601-3.05 -FINISHING FORMED CONCRETE, UNLESS OTHERWISE SPECIFIED.

LEGEND

	BENCHMARK
	NEW 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 "B"
	COMBINED CURB & GUTTER - M.A.G. DETAIL 220 TYPE "A"
	BACKFILL TYPE & SQ. YD. PVMT. REPLACEMENT - C.O.P. DETAIL P1200
	EXISTING CONCRETE PAVEMENT OR SIDEWALK
	NEW CONCRETE SIDEWALK - STD. DETAIL P-1230
	NEW CONCRETE DRIVEWAY OR ALLEY ENT. PER DETAIL NO. ON PLANS
	NEW CONCRETE SIDEWALK RAMP PER DETAIL ON PLANS
	AVERAGE GROUND ELEVATION AT R/W LINE EXISTING DITCH EXISTING IRRIGATION LINE
	W/SIZE (NOTE PRIVATE, SALT RIVER OR R.I.D.)
	EXISTING IRRIGATION STRUCTURE
	EXISTING IRRIGATION STANDPIPE
	NEW IRRIGATION STANDPIPE - M.A.G. DETAIL 503
	NEW IRRIGATION VALVE - M.A.G. DETAIL 506 W/ CONC. SCOURING BASIN
	IRRIGATION BERM
	NEW IRRIGATION STRUCTURE PER DETAIL ON PLANS
	EXISTING WATER LINE W/SIZE & TYPE (12" AND SMALLER)
	EXISTING WATER LINE W/SIZE & TYPE (GREATER THAN 12")
	ADJUST EXIST. WATER VALVE BOX - C.O.P. DETAIL P1391 WATER SERVICE W/SIZE AND
	WATER METER BOX
	EXISTING FIRE HYDRANT
	NEW OR RELOCATED FIRE HYDRANT BY CONTRACTOR
	EXISTING WATER VALVE W/TOP OF OPERATING NUT ELEVATION
	EXISTING SANITARY SEWER LINE W/SIZE & TYPE (12" AND SMALLER)
	EXISTING SANITARY SEWER LINE W/SIZE & TYPE (GREATER THAN 12")
	EXISTING MANHOLE
	NEW MANHOLE
	CATCH BASIN, GUTTER INLET (LENGTH TO SCALE)
	CATCH BASIN, CURB INLET (LENGTH TO SCALE)
	CATCH BASIN, CURB & GUTTER INLET (LENGTH TO SCALE)
	EXISTING STORM DRAIN LINE W/SIZE & TYPE (GREATER THAN 12")
	NEW PIPE FOR STORM DRAIN OR IRRIGATION LINE
	EXISTING GAS LINE W/SIZE
	EXISTING UNDERGROUND ELECTRIC CABLE OR SINGLE CONDUIT
	EXISTING UNDERGROUND ELECTRIC DUCT (SPECIFY NUMBER)
	EXISTING TELEPHONE BURIED CABLE OR SINGLE CONDUIT
	EXISTING UNDERGROUND TELEPHONE DUCT (SPECIFY NUMBER)
	EXISTING UNDERGROUND CABLE TV
	EXISTING UNDERGROUND FIBER OPTIC LINE
	EXISTING TRAFFIC SIGNAL POLE W/MAST ARM & SIGNAL INDICATIONS
	EXISTING STREET OR TRAFFIC SIGN
	EXISTING UTILITY POLE W/LINE INDICATING WIRE DIRECTION
	EXISTING WIRE FENCE
	EXISTING BLOCK FENCE
	EXISTING WOOD FENCE
	MAIL BOX
	EXISTING POWER POLE DOWN GUY ANCHOR
	EXISTING STREET LIGHT & POLE
	EXISTING TREE OR STUMP TO BE REMOVED - MORE THAN 12" DIA.
	EXISTING TREE TO BE TRANSPLANTED BY CONTRACTOR
	EASEMENT LINE
	EXISTING OR NEW R/W LINE
	PAVEMENT CENTER LINE OR MONUMENT LINE
	EXISTING TREE TO BE REMOVED (NON PAY ITEM)
	EXISTING TREE TO REMAIN
	MICRO-SEAL COAT

ABBREVIATIONS

W	WATER
UGE	UNDERGROUND ELECTRIC
G	GAS
STL G	STEEL GAS LINE
PE G	POLYETHYLENE GAS LINE
SD	STORM DRAIN
CATV	CABLE TELEVISION
OHE	OVERHEAD ELECTRIC
OHT	OVERHEAD TELEPHONE
T	TELEPHONE
F	FIBER OPTIC
S	SEWER
MAG	MARICOPA ASSOCIATION OF GOVERNMENTS
C.O.P.	CITY OF PHOENIX
O.D.	OUTER DIAMETER
DET	DETAIL
STD	STANDARD
FLG	FLANGED
MJ	MECHANICAL JOINT
NTS	NOT TO SCALE
CU. FT.	CUBIC FEET
AC	ASPHALT CONCRETE
ABC	AGGREGATE BASE CONCRETE
EXIST	EXISTING
PROP	PROPOSED
AP	ANGLE POINT
STA	STATION
TC	TOP OF CURB
G	GUTTER
SW	SIDEWALK
BCR	BEGIN CURB RETURN
ECR	END CURB RETURN
EL	ELEVATION
SY	SQUARE YARDS
EA	EACH
LF	LINEAR FEET
DIAM	DIAMETER
NO.	NUMBER
SE	SOUTH EAST
SW	SOUTH WEST
NE	NORTH EAST
NW	NORTH WEST
R/W	RIGHT-OF-WAY
ESMT	EASEMENT
APN	ASSESSOR PARCEL NUMBER
PVMT	PAVEMENT
C/L	CENTERLINE
F/C	FACE OF CURB
PCCP	PORTLAND CEMENT CONCRETE PAVEMENT
EX/EXIST	EXISTING
SEC	SECTION
FM	FLUSH MARKER



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140113	15	43	
11/22 DATE			ARDURRA CONSULTING ENGINEER		
DESIGN: RS	DRAWN: LA	CHECKED: RS			

602.263.1177
1001 N. CENTRAL AVE
SUITE 900
PHOENIX, AZ 85004
www.ardurra.com



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LEGEND, ABBREVIATIONS AND NOTES

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

JACKSON STREET AND
18TH STREET INTERSECTION
ST83140113

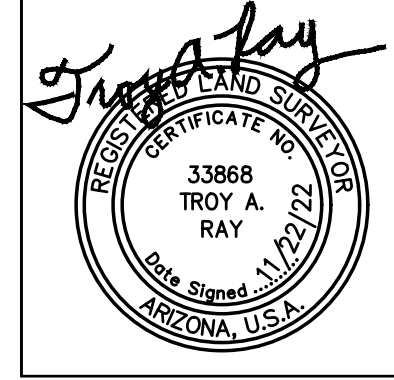
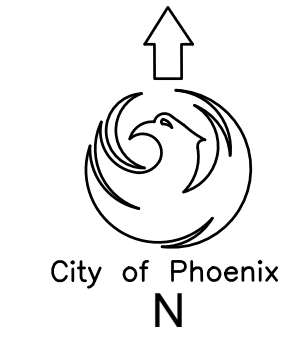
DR: LA	DES: RS	CK: RS	SHEET NO.	TOTAL SHEETS	AS BUILT
DATE: 11/22	DATE: 11/22	DATE: 11/22	15	43	
SHEET NAME		LN01			

REVISION BY	CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.					

REVISION BY	CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.					

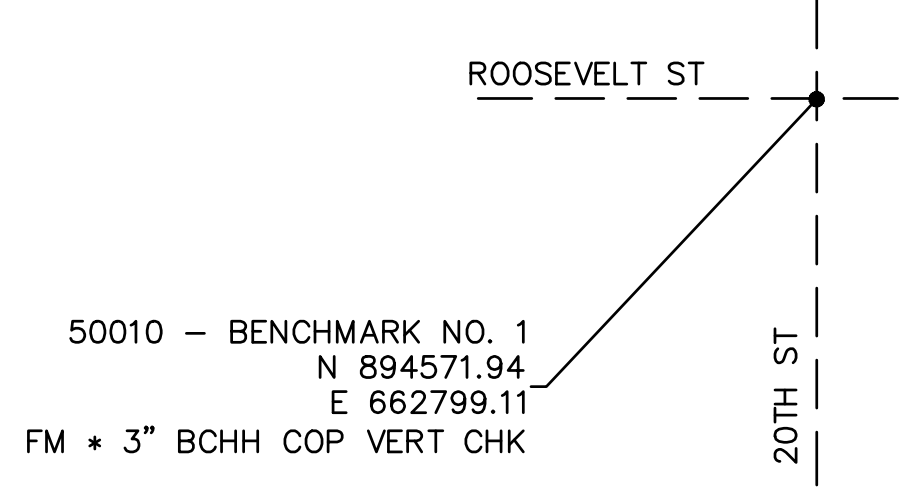
REVISION BY	CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.					

JACKSON STREET AND
18TH STREET INTERSECTION
PHOENIX — MARICOPA CO.



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140113	17	43	
DATE: 9/22			ARDURRA CONSULTING ENGINEER		
DESIGN: RS	DRAWN: LA	CHECKED: RS			

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				
NO.				
NO.				
NO.				
NO.				
NO.				
NO.				
NO.				
NO.				



BASIS OF SURVEY

THE FOLLOWING PARAMETERS WERE SET FOR THE BASIS OF THIS SURVEY:

SYSTEM: UNITED STATES STATE PLANE NAD83
ZONE: ARIZONA CENTRAL
DATUM: NORTH AMERICAN 1983

UNITS = INTERNATIONAL FEET (1 FOOT = 0.3048 METERS EXACTLY)
TRIMBLE R8/R10 GPS EQUIPMENT AND TRIMBLE S6/S7 ROBOTICS WERE USED FOR ALL FIELD MEASUREMENTS. DIRECT SATELLITE MEASUREMENTS WERE MADE ON EACH POINT ON THE NORTH AMERICAN DATUM OF 1983 WITH AUTOMATIC TRANSLATIONS MADE TO THE STATE PLANE GRID SYSTEM.

GPS CALIBRATION AND TRANSLATION TO THE SURFACE WAS PERFORMED BY LAND SURVEY SOFTWARE. A GRID ADJUSTMENT FACTOR OF 1.00016 AND SCALE ORIGIN VALUES OF N=0.00, E=0.00

ALL BEARINGS ARE GROUND/GRID BEARINGS
ALL DISTANCES ARE GROUND DISTANCES (INTERNATIONAL FEET)
ALL COORDINATES ARE GROUND VALUES (INTERNATIONAL FEET)

BASIS OF BEARING

FOR THIS PROJECT IS N89°58'41"E FOR THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 10, TOWNSHIP 1 NORTH, RANGE 3 EAST OF THE GILA & SALT RIVER MERIDIAN AS CALCULATED FROM AN PLSS SUBDIVISION RECORD OF SURVEY MARICOPA COUNTY GEODETIC DENSIFICATION AND CADASTRAL SURVEY RECORDED IN BOOK 1045, PAGE 45, MARICOPA COUNTY RECORDS.

CITY OF PHOENIX BENCHMARKS

BENCHMARK NO. 1
3" CITY OF PHOENIX BRASS CAP IN HAND HOLE
LOCATED AT THE INTERSECTION OF 20TH STREET AND ROOSEVELT STREET
(NGVD 29) ELEVATION=1105.78'

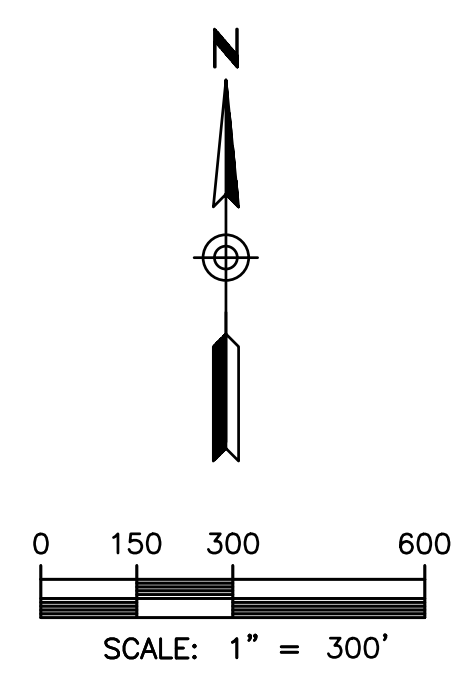
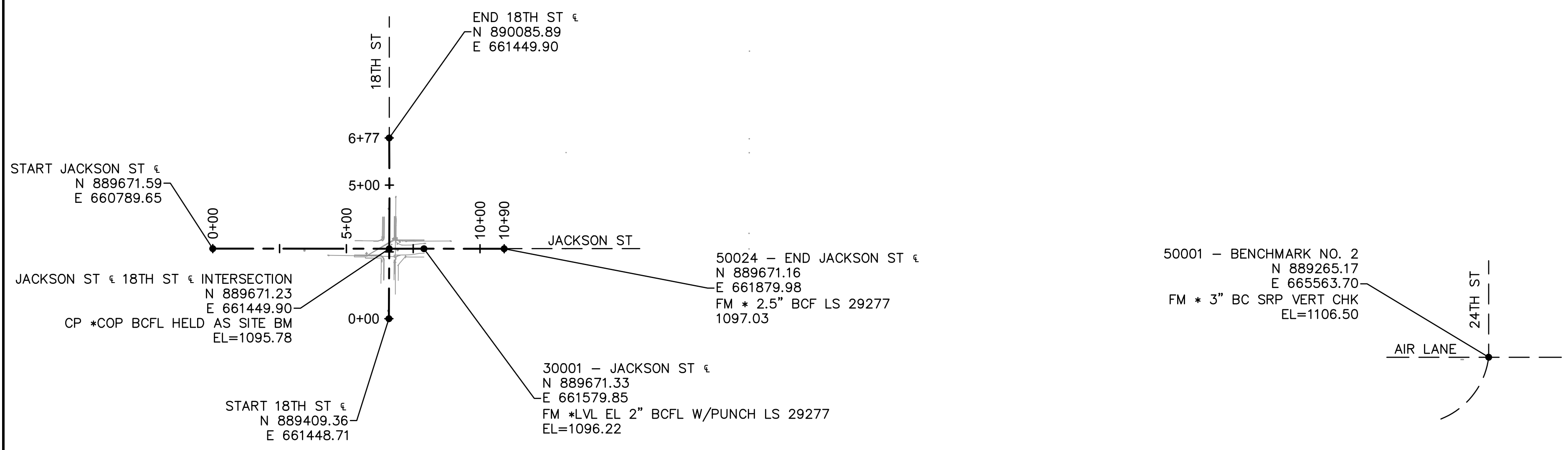
BENCHMARK NO. 2
SRVWUA BRASS CAP ON WESTSIDE OF IRRIGATION GATE
LOCATED AT THE NORTHEAST CORNER INTERSECTION OF 24TH STREET AND AIRLANE
(NGVD 29) ELEVATION=1106.50'

PREPARED FOR

CITY OF PHOENIX
STREET TRANSPORTATION DEPT.
200 WEST WASHINGTON STREET
PHOENIX, AZ 85003-1611
PHONE: 602-495-5938
CONTACT: RYAN BENTZ
EMAIL: RYAN.BENTZ@PHOENIX.GOV

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CONTACT: RAJ SHAH
EMAIL: RSHAH@ARDURRA.COM



CERTIFICATION

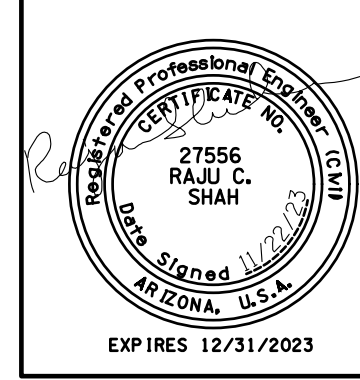
I, TROY RAY, HEREBY CERTIFY THAT THIS DRAWING AND THE FIELD SURVEYS IT WAS BASED ON WERE PERFORMED AND PREPARED UNDER MY SUPERVISION DURING THE MONTH OF NOVEMBER, 2022. THE SURVEY AND THE MONUMENTS IT IS BASED ON ARE CORRECT AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Troy A. Ray
SURVEYOR
R.L.S.# 33868

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

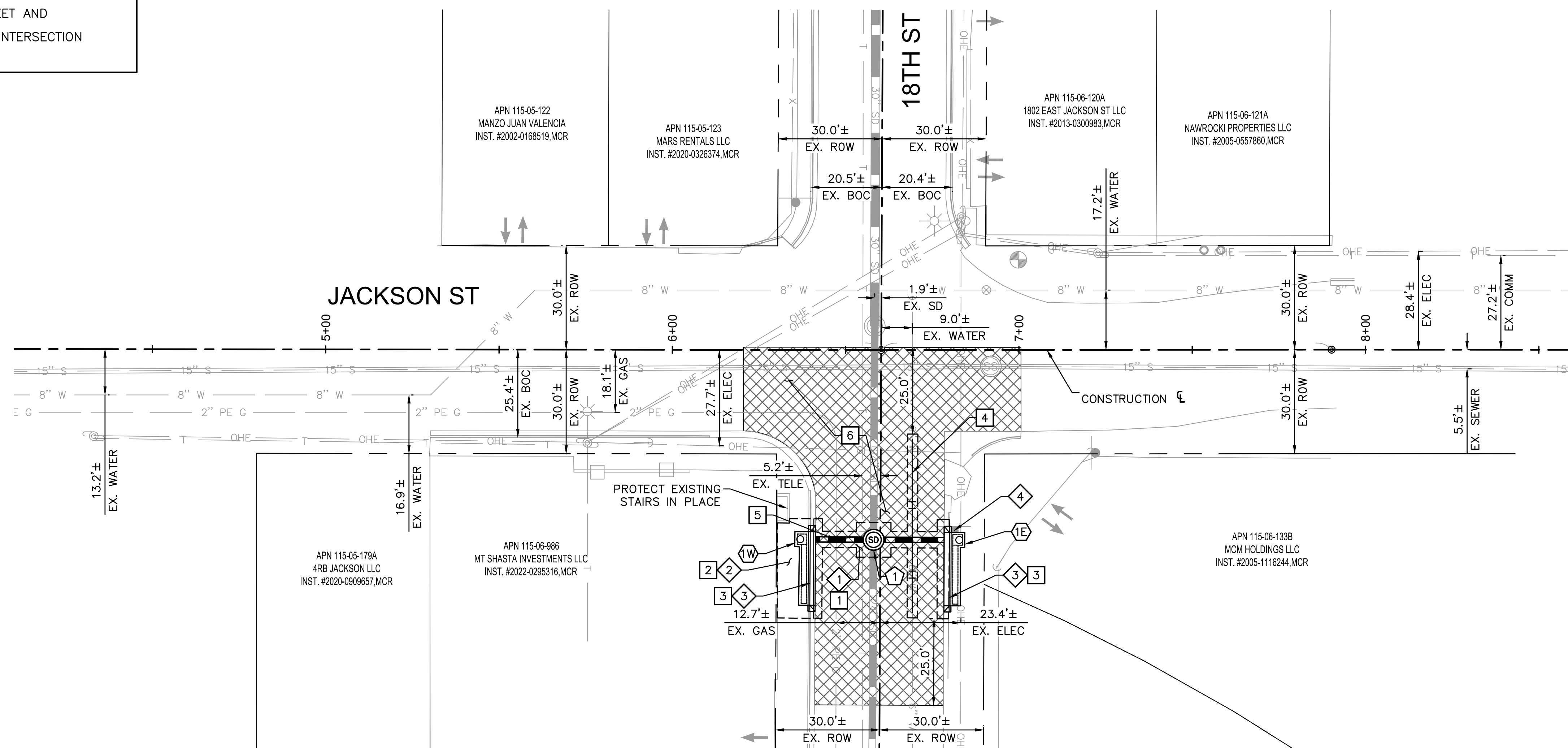
GEOMETRIC CONTROL					
CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT					
JACKSON STREET AND 18TH STREET INTERSECTION ST83140113					
DR: LA	DES: RS	CK: RS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 9/22	DATE: 9/22	DATE: 9/22	NO: 17	43	
SHEET NAME			GC01		

JACKSON STREET AND
18TH STREET INTERSECTION



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140113	18	43	
DATE: 9/22			ARDURRA CONSULTING ENGINEER		
DESIGN: RS		DRAWN: LA		CHECKED: RS	
STORM DRAIN MANHOLE					
NO.	STATION	TYPE			
1	6+58.14 54.73' R	P1520, P1424 & MAG DET 522			

REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION
REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION
REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION



CATCH BASIN & CONNECTOR PIPE					
NO.	INLET STATION	INLET TYPE	CONN TYPE	PIPE SIZE	LF
1W	6+36.97 54.58' R	P1569-2, M-1, L=17'	MH	18" CLASS III RGRCP	22
1E	6+82.76 54.79' R	P1569-2, M-1, L=17'	MH	18" CLASS III RGRCP	25

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QUANTITY
1	INSTALL ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 1 1/2" TYPE D 1/2, 3 1/2" TYPE A 1 1/2" ON 100% COMPACTED NATIVE SUBGRADE	52 SY
2	INSTALL CONCRETE SIDEWALK, PER COP STD DTL P-1230	191 SF
3	INSTALL COMBINED CONCRETE CURB & GUTTER, PER MAG STD DTL 220, TYPE "A"	8 LF
4	VERTICAL REALIGNMENT OF 6" WATERLINE PER COP STD DTL P1370	50 LF
5	PERMANENT PIPE SUPPORT, MAG STANDARD DETAILS 403-1, 403-2, OR 403-3	1 EA
6	INSTALL MICRO-SEAL COAT	546 SY

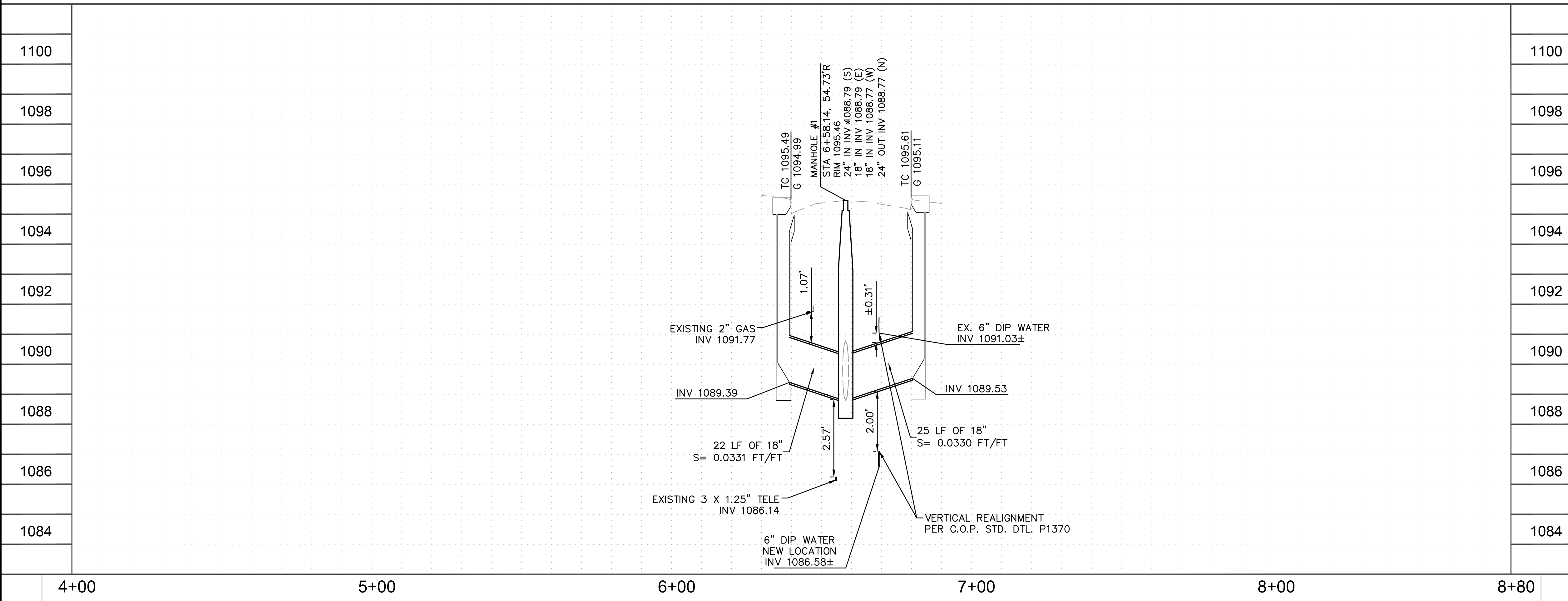
REMOVALS & ADJUSTMENTS		
NO.	DESCRIPTION	QUANTITY
1	SAWCUT, REMOVE EXISTING AC PAVEMENT	52 SY
2	SAWCUT, REMOVE EXISTING SIDEWALK **	254 SF
3	SAWCUT, REMOVE EXISTING CURB AND GUTTER	58 LF
4	REMOVE AND REPLACE EXISTING STREET SIGN	1 EA

* CONTRACTOR TO VERIFY THE DEPTH OF EXISTING 24" STORM DRAIN PRIOR TO CONSTRUCTION.
 ** CONTRACTOR TO CUT SIDEWALK AT NEAREST CONSTRUCTION JOINT, AND ADD EXPANSION JOINT BETWEEN EXISTING BUILDING AND NEW CONCRETE PER COP STD DTL P-1230 (NPI).



"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-26, 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."

PLAN AND PROFILE
 CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT
 JACKSON STREET AND
 18TH STREET INTERSECTION
 ST83140113



DR: LA	DES: RS	CK: RS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 9/22	DATE: 9/22	DATE: 9/22	18	43	
SHEET NAME			PP01		

CITY OF PHOENIX

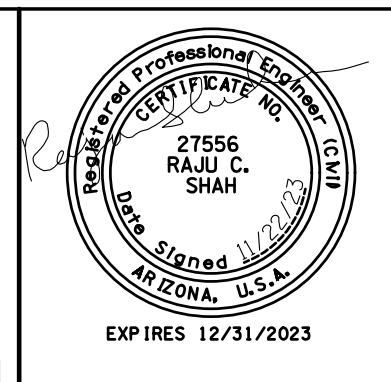
STREET TRANSPORTATION DEPARTMENT

DESIGN & CONSTRUCTION MANAGEMENT DIVISION

2021 ARPA LOCAL DRAINAGE MITIGATION PACKAGE 2

INDIAN SCHOOL & N 28TH STREET

ST83140115



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST83140115	19	43	

ARDURRA
CONSULTING ENGINEER

DES: JU	DR: BR	CK: JU	DATE: 11/22
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MAYOR
KATE GALLEGO

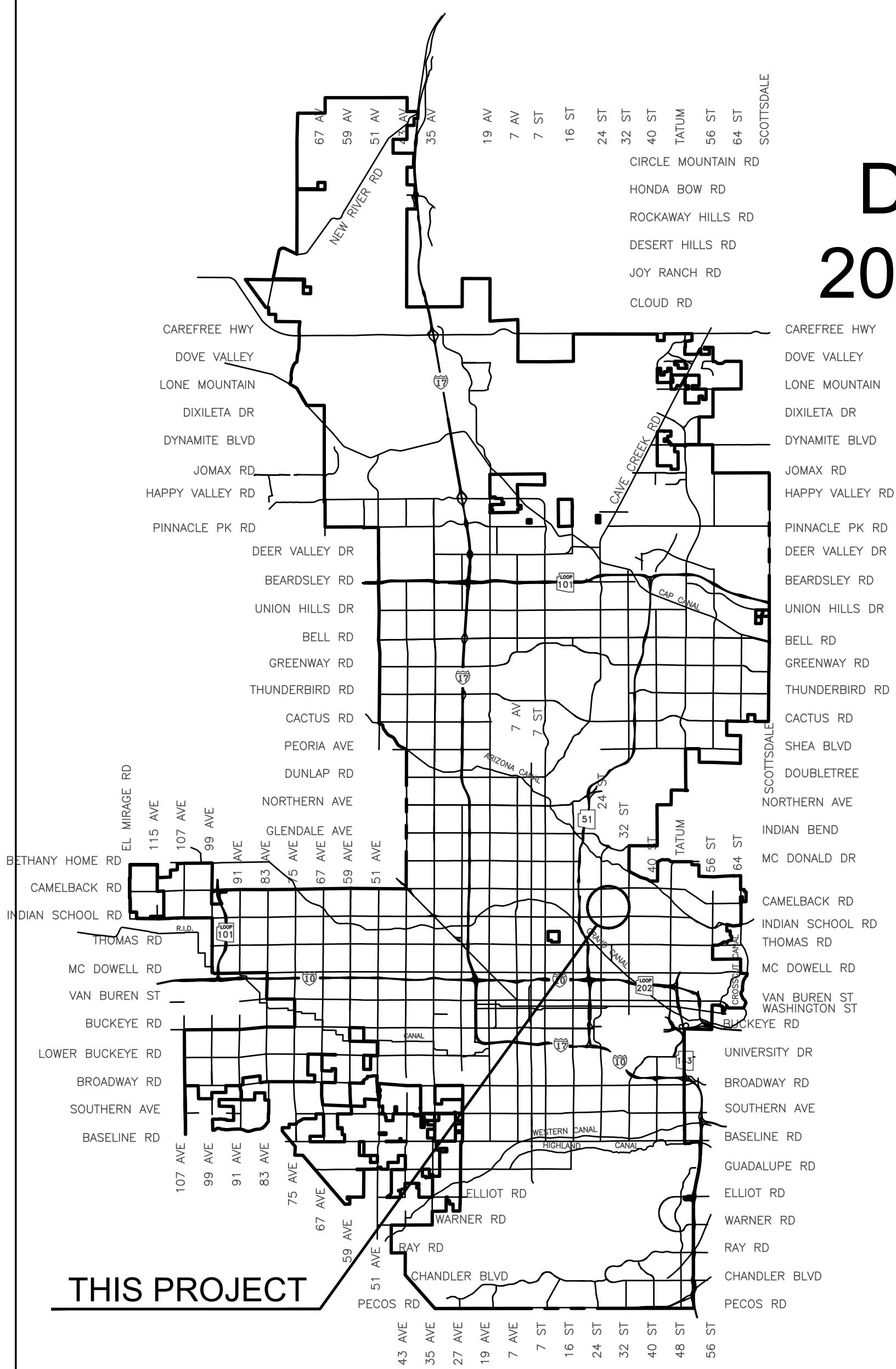
CITY MANAGER
JEFFREY BARTON

CITY COUNCIL

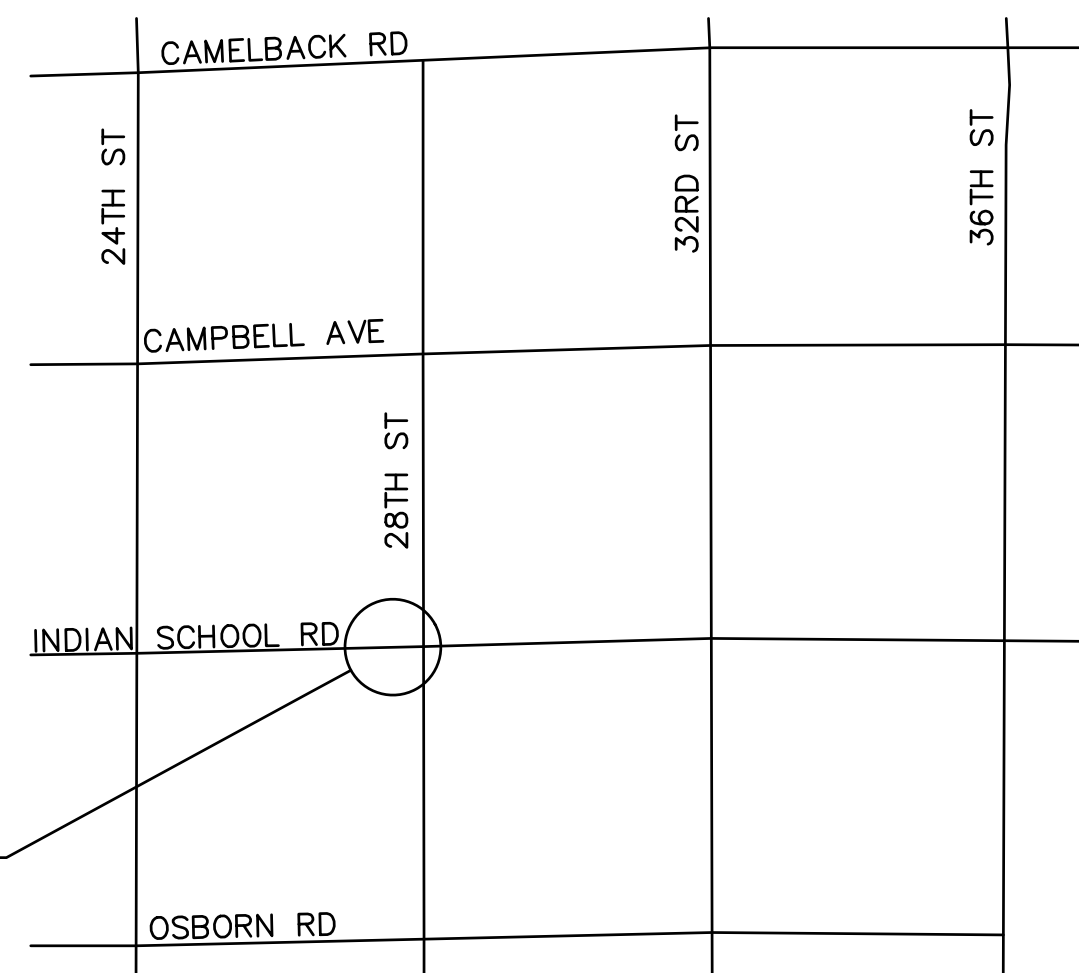
- DISTRICT NO 1. ANN O'BRIEN
- DISTRICT NO 2. JIM WARING
- DISTRICT NO 3. DEBRA STARK
- DISTRICT NO 4. LAURA PASTOR
- DISTRICT NO 5. BETTY GUARDADO
- DISTRICT NO 6. KEVIN ROBINSON
- DISTRICT NO 7. YASSAMIN ANSARI
- DISTRICT NO 8. KESHA HODGE WASHINGTON

INDEX OF SHEETS

19	COVER SHEET
20	LEGEND AND NOTES SHEET
21	DRAINAGE SUMMARY SHEET
22	GEOMETRIC CONTROL SHEET
23	PLAN/PROFILE SHEET



VICINITY MAP
NTS



LOCATION MAP



2024

LENGTH:

82.97 LF

DISTURBED AREA:

0.0171 ACRES

City Benchmark:

BENCHMARK NO. 1
CITY OF PHOENIX BRASS CAP IN HAND HOLE
INTERSECTION OF 28TH STREET AND INDIAN SCHOOL ROAD
(NGVD 29) ELEVATION=1170.18'

BENCHMARK NO. 2
CITY OF PHOENIX BRASS CAP IN HAND HOLE
INTERSECTION OF 32ND STREET AND CAMPBELL AVENUE
(NGVD 29) ELEVATION=1195.37'

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE AS-BUILT (AB) MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY DIRECT SUPERVISION AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

APPROVED Nazar Nabaty
NAZAR NABATY, P.E., FLOODPLAIN MANAGER

06/25/2024
DATE

APPROVED Eric J. Froberg
ERIC J. FROBERG, P.E., CITY ENGINEER

06/26/2024
DATE

PREPARED FOR
CITY OF PHOENIX
STREET TRANSPORTATION DEPT.
200 WEST WASHINGTON STREET
PHOENIX, AZ 85003-1611
PHONE: 602-495-5938
CONTACT: RYAN BENTZ
EMAIL: RYAN.BENTZ@PHOENIX.GOV

PREPARED BY
ARDURRA
1001 N CENTRAL AVE
SUITE 900
PHOENIX, AZ 85004
PHONE: 602-236-1177
CONTACT: RAJ SHAH
EMAIL: RSHAH@ARDURRA.COM



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

Q.S. 17-33, 17-34

100 % SUBMITTAL

ST83140115

DRAWING FILE NAME, REVISION DATE

INDIAN SCHOOL ROAD
PHOENIX – MARICOPA CO.

LEGEND, ABBREVIATIONS AND NOTES

NOTES

ABBREVIATIONS

W	WATER
UGE	UNDERGROUND ELECTRIC
G	GAS
STL G	STEEL GAS LINE
PE G	POLYETHYLENE GAS LINE
SD	STORM DRAIN
CATV	CABLE TELEVISION
OHE	OVERHEAD ELECTRIC
OHT	OVERHEAD TELEPHONE
T	TELEPHONE
F	FIBER OPTIC
S	SEWER
MAG	MARICOPA ASSOCIATION OF GOVERNMENTS
C.O.P.	CITY OF PHOENIX
O.D.	OUTER DIAMETER
DET	DETAIL
STD	STANDARD
FLG	FLANGED
MJ	MECHANICAL JOINT
NTS	NOT TO SCALE
CU. FT.	CUBIC FEET
AC	ASPHALT CONCRETE
ABC	AGGREGATE BASE CONCRETE
EXIST	EXISTING
PROP	PROPOSED
AP	ANGLE POINT
STA	STATION
TC	TOP OF CURB
G	GUTTER
SW	SIDEWALK
BCR	BEGIN CURB RETURN
ECR	END CURB RETURN
EL	ELEVATION
SY	SQUARE YARDS
EA	EACH
LF	LINEAR FEET
DIAM	DIAMETER
NO.	NUMBER
SE	SOUTH EAST
SW	SOUTH WEST
NE	NORTH EAST
NW	NORTH WEST
R/W	RIGHT-OF-WAY
ESMT	EASEMENT
APN	ASSESSOR PARCEL NUMBER
PVMT	PAVEMENT
C/L	CENTERLINE
F/C	FACE OF CURB
PCCP	PORTLAND CEMENT CONCRETE PAVEMENT
EX/EXIST	EXISTING
SEC	SECTION

ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CONTRACT SPECIAL PROVISIONS AND DETAILS, 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.

ALL STORM SEWER MANHOLES ARE TO BE CONSTRUCTED WITHOUT STEPS. 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.

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 P-1576.

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 M.A.G. DETAIL 505. ANY ANGLE BENDS GREATER THAN 22-1/2' SHALL BE PREFABRICATED. CONNECTOR PIPES SHALL CONNECT TO CATCH BASIN WALLS AT AN ANGLE NOT TO EXCEED 22-1/2' FROM PERPENDICULAR.

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. TWO WORKING DAYS BEFORE CONSTRUCTION, THE CONTRACTOR SHALL CONTACT BLUESTAKE TO FIND AND FLAG UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT OTHER APPROPRIATE UTILITIES DIRECTLY IF THEY ARE NOT ON BLUESTAKE SYSTEM.

VERTICAL CONTROL IS BASED ON PHOENIX DATUM NGVD-29

UNLESS OTHERWISE NOTED, STATIONS SHOWN ON PIPE PROFILES ARE ALONG CENTERLINE OF PIPE. UNLESS OTHERWISE NOTED, PIPE SHALL BE BEDDED IN ACCORDANCE WITH CITY OF PHOENIX DETAIL P1200.

CATCH BASINS ARE STATIONED PERPENDICULAR TO THE CENTERLINE OF THE STREET AT THE CENTERLINE OF THE MAINTENANCE BASIN.

SANITARY SEWER MAINS AND TAPS CROSSING OVER STORM DRAIN MAINS SHALL BE SUPPORTED PER M.A.G. DETAIL 404-3.

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.

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.

ALL EXISTING DRIVEWAYS AND ALL EXISTING ALLEYS SHALL BE GRADED TO MATCH THE NEW WORK IN ACCORDANCE WITH STD. DETAIL P-1164, UNLESS OTHERWISE SPECIFIED. EXISTING SURFACING SHALL BE REMOVED AND REPLACED AS NECESSARY.

UNLESS OTHERWISE PROVIDED ON THE PLANS, EXISTING A.C. OR P.C.C. DRIVEWAYS AND SIDEWALKS WHICH FALL WITHIN OR ABUT THE RIGHT OF WAY SHALL BE CONNECTED TO THE NEW WORK AS FOLLOWS:

THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING A.C. DRIVEWAYS SHALL BE FILLED WITH A MINIMUM OF 3" A.C.S.C. ON 100% COMPACTED NATIVE SOIL. WHERE EXISTING PAVEMENT AND BASE THICKNESS EXCEED THE MINIMUMS, MATCH THE EXISTING.

THE SPACE BETWEEN THE BACK OF NEW SIDEWALKS AND EXISTING PRIVATE SIDEWALKS, AND THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING P.C.C. DRIVEWAYS SHALL BE FILLED WITH P.C.C.. THE THICKNESS AND CLASS SHALL MATCH THAT OF THE NEW SIDEWALK OR DRIVEWAY ENTRANCE.

UNLESS OTHERWISE PROVIDED ON THE PLANS, THE SPACE BETWEEN THE BACK OF THE NEW SIDEWALKS, AND EXISTING A.C. PARKING LOTS, WHICH FALL WITHIN OR ABOUT THE R/W SHALL BE FILLED WITH 2" A.C.S.C. ON 100% COMPACTED NATIVE SOIL.

EXISTING IRRIGATION BERMS DISTURBED BY NEW CONSTRUCTION SHALL BE RECONSTRUCTED AS SHOWN ON PLANS.

M.A.G. ALLEY ENTRANCE DETAILS 260, 261, 262 AND 263, WHICH ARE INDICATED TO BE MODIFIED ON THESE PLANS SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL NUMBER EXCEPT THAT THE SLAB SHALL BE 9" THICK. DRIVEWAYS DESIGNATED ON THE PLANS AS M.A.G. DETAILS 250 AND 251 SHALL BE RESIDENTIAL DRIVEWAYS 5" THICK. ALL OTHER DRIVEWAYS SHALL BE CITY OF PHOENIX DETAILS P1255.

CATCH BASIN ACCESS FRAME AND COVERS SHALL BE CONSTRUCTED PER C.O.P. DETAIL P1561.

STRUCTURAL NOTES

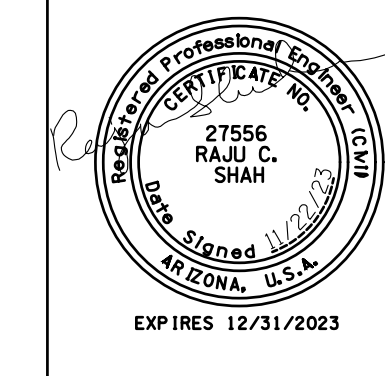
"CLEAR" DIMENSIONS FOR DEPTH OF REINFORCING STEEL ARE FROM FACE OF CONCRETE TO FACE OF BARS.

ALL EXPOSED EDGES OF CONCRETE SHALL BE BEVELED OR ROUNDED.

ALL EXPOSED CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH ARIZONA DEPT. OF TRANSPORTATION STANDARD SPECIFICATION 601-3.05 -FINISHING FORMED CONCRETE, UNLESS OTHERWISE SPECIFIED.

LEGEND

	BENCHMARK
	NEW 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 "B"
	COMBINED CURB & GUTTER - M.A.G. DETAIL 220 TYPE "A"
	BACKFILL TYPE & SQ. YD. PVMT. REPLACEMENT - C.O.P. DETAIL P1200
	EXISTING CONCRETE PAVEMENT OR SIDEWALK
	NEW CONCRETE SIDEWALK - STD. DETAIL P-1230
	NEW CONCRETE DRIVEWAY OR ALLEY ENT. PER DETAIL NO. ON PLANS
	NEW CONCRETE SIDEWALK RAMP PER DETAIL ON PLANS
	AVERAGE GROUND ELEVATION AT R/W LINE EXISTING DITCH EXISTING IRRIGATION LINE
	W/SIZE (NOTE PRIVATE, SALT RIVER OR R.I.D.)
	EXISTING IRRIGATION STRUCTURE
	EXISTING IRRIGATION STANDPIPE
	NEW IRRIGATION STANDPIPE - M.A.G. DETAIL 503
	NEW IRRIGATION VALVE - M.A.G. DETAIL 506 W/ CONC. SCOURING BASIN
	IRRIGATION BERM
	NEW IRRIGATION STRUCTURE PER DETAIL ON PLANS
	EXISTING WATER LINE W/SIZE & TYPE (12" AND SMALLER)
	EXISTING WATER LINE W/SIZE & TYPE (GREATER THAN 12")
	ADJUST EXIST. WATER VALVE BOX - C.O.P. DETAIL P1391 WATER SERVICE W/SIZE AND
	3/4" W WATER METER BOX
	EXISTING FIRE HYDRANT
	NEW OR RELOCATED FIRE HYDRANT BY CONTRACTOR
	EXISTING WATER VALVE W/TOP OF OPERATING NUT ELEVATION
	8" VCP S EXISTING SANITARY SEWER LINE W/SIZE & TYPE (12" AND SMALLER)
	30" VCP S EXISTING SANITARY SEWER LINE W/SIZE & TYPE (GREATER THAN 12")
	EXISTING MANHOLE
	NEW MANHOLE
	CATCH BASIN, GUTTER INLET (LENGTH TO SCALE)
	CATCH BASIN, CURB INLET (LENGTH TO SCALE)
	CATCH BASIN, CURB & GUTTER INLET (LENGTH TO SCALE)
	30" SD (RCP) EXISTING STORM DRAIN LINE W/SIZE & TYPE (GREATER THAN 12")
	NEW PIPE FOR STORM DRAIN OR IRRIGATION LINE
	4" EXISTING GAS LINE W/SIZE
	E EXISTING UNDERGROUND ELECTRIC CABLE OR SINGLE CONDUIT
	E-4D EXISTING UNDERGROUND ELECTRIC DUCT (SPECIFY NUMBER)
	T EXISTING TELEPHONE BURIED CABLE OR SINGLE CONDUIT
	T-4D EXISTING UNDERGROUND TELEPHONE DUCT (SPECIFY NUMBER)
	CATV EXISTING UNDERGROUND CABLE TV
	FO EXISTING UNDERGROUND FIBER OPTIC LINE
	EXISTING TRAFFIC SIGNAL POLE W/MAST ARM & SIGNAL INDICATIONS
	EXISTING STREET OR TRAFFIC SIGN
	EXISTING UTILITY POLE W/LINE INDICATING WIRE DIRECTION
	EXISTING WIRE FENCE
	EXISTING BLOCK FENCE
	EXISTING WOOD FENCE
	MAIL BOX
	EXISTING POWER POLE DOWN GUY ANCHOR
	EXISTING STREET LIGHT & POLE
	EXISTING TREE OR STUMP TO BE REMOVED - MORE THAN 12" DIA.
	EXISTING TREE TO BE TRANSPLANTED BY CONTRACTOR
	EASEMENT LINE
	EXISTING OR NEW R/W LINE
	PAVEMENT CENTER LINE OR MONUMENT LINE
	EXISTING TREE TO BE REMOVED (NON PAY ITEM)
	EXISTING TREE TO REMAIN
	MICRO-SEAL COAT



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140115	20	43	

11/22	ARDURRA
DATE	CONSULTING ENGINEER

DESIGN: JU/BR	DRAWN: BR	CHECKED: JU
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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."

LEGEND, ABBREVIATIONS AND NOTES

CITY OF PHOENIX, ARIZONA

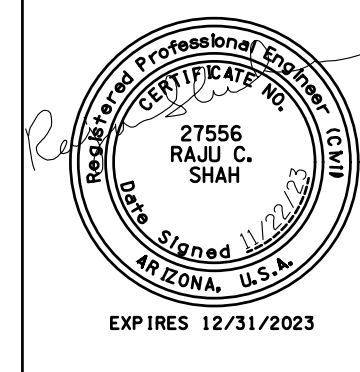
STREET TRANSPORTATION DEPARTMENT

INDIAN SCHOOL ROAD
27TH ST TO 28TH ST
ST83140115

DR: BR	DES:BR/JU	CK:JU	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE:11/22	DATE:11/22	DATE:11/22	20	43	
SHEET NAME	LN01				

INDIAN SCHOOL ROAD
PHOENIX - MARICOPA CO.

DRAINAGE SUMMARY



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140115	21	43	

11/22 DATE	ARDURRA CONSULTING ENGINEER
DESIGN: JU/BR	DRAWN: BR CHECKED: JU

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

ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL
			5																				
M3001001	Sawcut & Remove Existing Asphalt Pavement	SY	66																			66	
M3001002	Sawcut & Remove Existing Curb & Gutter	Lin. Ft.	32																			32	
M3001005	Sawcut & Remove Existing Sidewalk	SF	88																			88	
M3360130	Asphalt Concrete For Permanent Pavement Replacement, 1 1/2" Type D-1/2 on 6 1/2" Type A-1 1/2 (2 lifts) on 100% compacted native subgrade.	SY	66																			66	
M3362100	Install Micro-seal Coat	SY	1045																			1,045	
M3400400	Concrete Sidewalk, Per COP Std Detail P-1230	SF	57																			57	
M3402200	Combined Concrete Curb & Gutter, Per MAG Standard Detail 220, Type "A"	Lin. Ft.	18																			18	
M5051569	Concrete Catch Basin, Modified, Type "R-1, L=6 Ft," Phx. Supp. Detail P-1584	Each	1																			1	
M5051575	Concrete Catch Basin, Type "N, Triple", Phx. Supp. Detail P-1570	Each	1																			1	
M6183018	18" Rubber Gasket Reinforced Concrete Pipe, Class III	Lin. Ft.	71																			71	
M6186020	30" x 30" x 18" Pre-Fabricated Tee	Each	1																			1	
M6187610	Connect Existing Storm Drain Pipe to New Manhole	Each	1																			1	
M6250005	Storm Sewer Manhole, MAG Standard Detail 522, COP Supp. Std. Detail P-1520	Each	1																			1	

O: 602.263.1177
1001 N. CENTRAL AVE
SUITE 900
PHOENIX, AZ 85004
www.ardurra.com

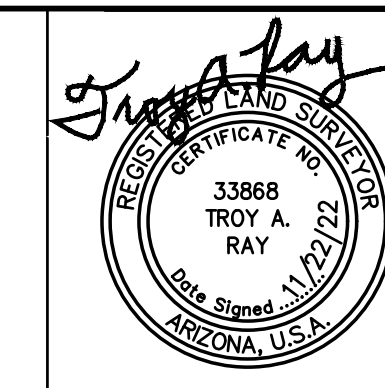
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DRAINAGE SUMMARY
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

INDIAN SCHOOL ROAD
27TH ST TO 28TH ST
ST83140115

DR: BR	DES: BR/JU	CK: JU	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 11/22	DATE: 11/22	DATE: 11/22	21	43	
SHEET NAME		DS01	21	43	

INDIAN SCHOOL ROAD
PHOENIX - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140115	22	43	
DATE: 11/22			CONSULTING ENGINEER: ARDURRA		
DESIGN: JU/BR	DRAWN: BR	CHECKED: JU			

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

BASIS OF SURVEY

THE FOLLOWING PARAMETERS WERE SET FOR THE BASIS OF THIS SURVEY:

SYSTEM: UNITED STATES STATE PLANE NAD83
ZONE: ARIZONA CENTRAL
DATUM: NORTH AMERICAN 1983

UNITS = INTERNATIONAL FEET (1 FOOT = 0.3048 METERS EXACTLY)
TRIMBLE R8/R10 GPS EQUIPMENT AND TRIMBLE S6/S7 WAS USED FOR ALL FIELD MEASUREMENTS. DIRECT SATELLITE MEASUREMENTS WERE MADE ON EACH POINT ON THE NORTH AMERICAN DATUM OF 1983 WITH AUTOMATIC TRANSLATIONS MADE TO THE STATE PLANE GRID SYSTEM.

GPS CALIBRATION AND TRANSLATION TO THE SURFACE WAS PERFORMED BY LAND SURVEY SOFTWARE. A GRID ADJUSTMENT FACTOR OF 1.00016 AND SCALE ORIGIN VALUES OF N=0.00, E=0.00

ALL BEARINGS ARE GROUND/GRID BEARINGS
ALL DISTANCES ARE GROUND DISTANCES (INTERNATIONAL FEET)
ALL COORDINATES ARE GROUND VALUES (INTERNATIONAL FEET)

BASIS OF BEARING

FOR THIS PROJECT IS N88°28'09"E FOR THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 26, TOWNSHIP 2 NORTH, RANGE 3 EAST OF THE GILA & SALT RIVER MERIDIAN AS CALCULATED FROM AN AMENDED PLSS SUBDIVISION RECORD OF SURVEY MARICOPA COUNTY GEODETIC DENSIFICATION AND CADASTRAL SURVEY RECORDED IN BOOK 708, PAGE 10, MARICOPA COUNTY RECORDS.

CITY OF PHOENIX BENCHMARKS

BENCHMARK NO. 1
CITY OF PHOENIX BRASS CAP IN HAND HOLE
INTERSECTION OF 28TH STREET AND INDIAN SCHOOL ROAD
(NGVD 29) ELEVATION=1170.18'

BENCHMARK NO. 2
CITY OF PHOENIX BRASS CAP IN HAND HOLE
INTERSECTION OF 32ND STREET AND CAMPBELL AVENUE
(NGVD 29) ELEVATION=1195.37'

PREPARED FOR

CITY OF PHOENIX
STREET TRANSPORTATION DEPT.
200 WEST WASHINGTON STREET
PHOENIX, AZ 85003-1611
PHONE: 602-495-5938
CONTACT: RYAN BENTZ
EMAIL: RYAN.BENTZ@PHOENIX.GOV

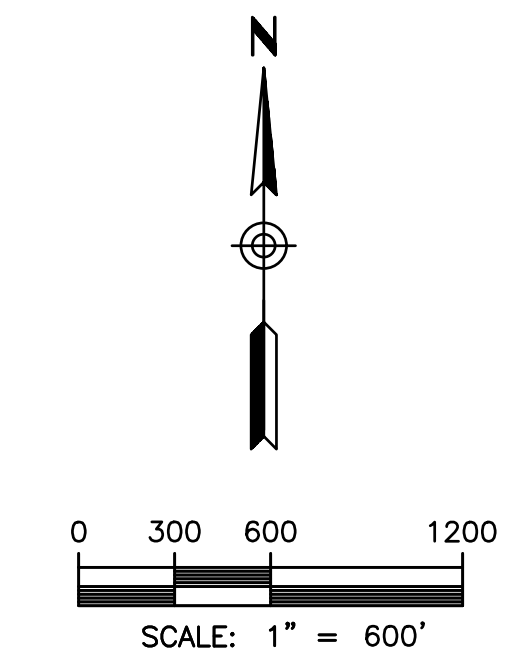
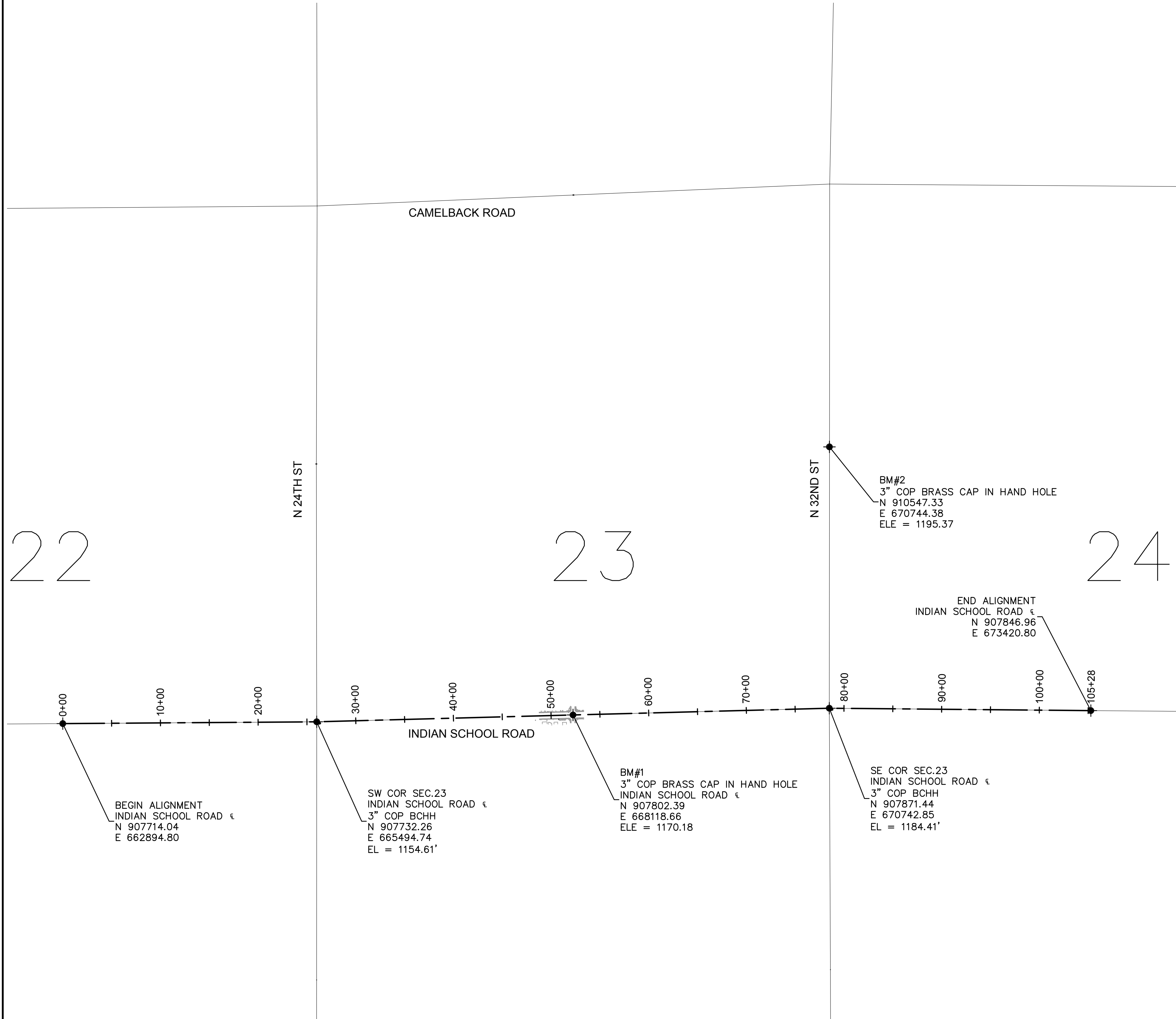
PREPARED BY

ARDURRA
1001 N. CENTRAL AVE
SUITE 900
PHOENIX, AZ 85004
PHONE: 602-236-1177
CONTACT: RAJ SHAH
EMAIL: RSHAH@ARDURRA.COM

CERTIFICATION

I, TROY RAY, HEREBY CERTIFY THAT THIS DRAWING AND THE FIELD SURVEYS IT WAS BASED ON WERE PERFORMED AND PREPARED UNDER MY SUPERVISION DURING THE MONTH OF NOVEMBER, 2022. THE SURVEY AND THE MONUMENTS IT IS BASED ON ARE CORRECT AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Troy A. Ray
SURVEYOR
R.L.S.# 33868



ARDURRA
1001 N. CENTRAL AVE
SUITE 900
PHOENIX, AZ 85004
www.ardurra.com
O: 602.263.1177



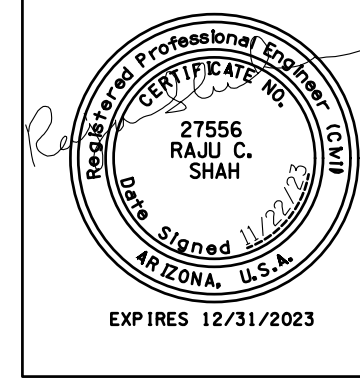
"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX."

GEOMETRIC CONTROL SHEET
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

INDIAN SCHOOL ROAD
27TH ST TO 28TH ST
ST83140115

DR: BR	DES: BR/JU	CK: JU	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 11/22	DATE: 11/22	DATE: 11/22	22	43	
SHEET NAME: GC01			22	43	

INDIAN SCHOOL ROAD
PHOENIX - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140115	23	43	

11/22 DATE
ARDURRA CONSULTING ENGINEER

DESIGN: JU/BR DRAWN: BR CHECKED: JU

CONSTRUCTION NOTES

NO.	ITEM	QUANTITY
1	30"X30"X18" PRE-FABRICATED TEE PER COP STD DTL P-1576	1 EA
2	INSTALL ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 1 1/2" TYPE D- 1/2 ON 6 1/2" TYPE A-1 1/2 (2 LIFTS) ON 100% COMPACTED NATIVE SUBGRADE	66 SY
3	INSTALL CONCRETE SIDEWALK, PER COP STD DTL P-1230	57 SF
4	INSTALL COMBINED CONCRETE CURB & GUTTER, PER MAG STD DTL 220, TYPE "A"	18 LF
5	INSTALL MICRO-SEAL COAT	1045 SY

STORM DRAIN MANHOLE

NO.	STATION	TYPE
1	50+74.52 2.22' L	P1520, P1424 & MAG 522

CATCH BASIN & CONNECTOR PIPE

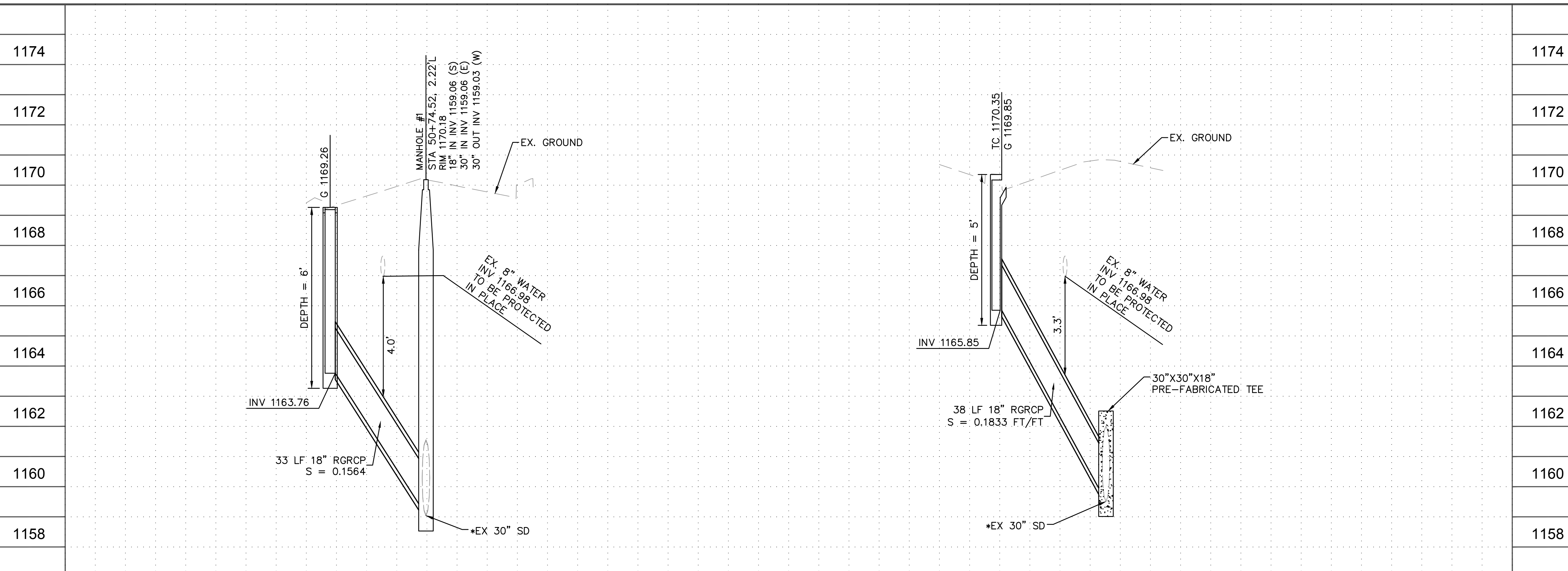
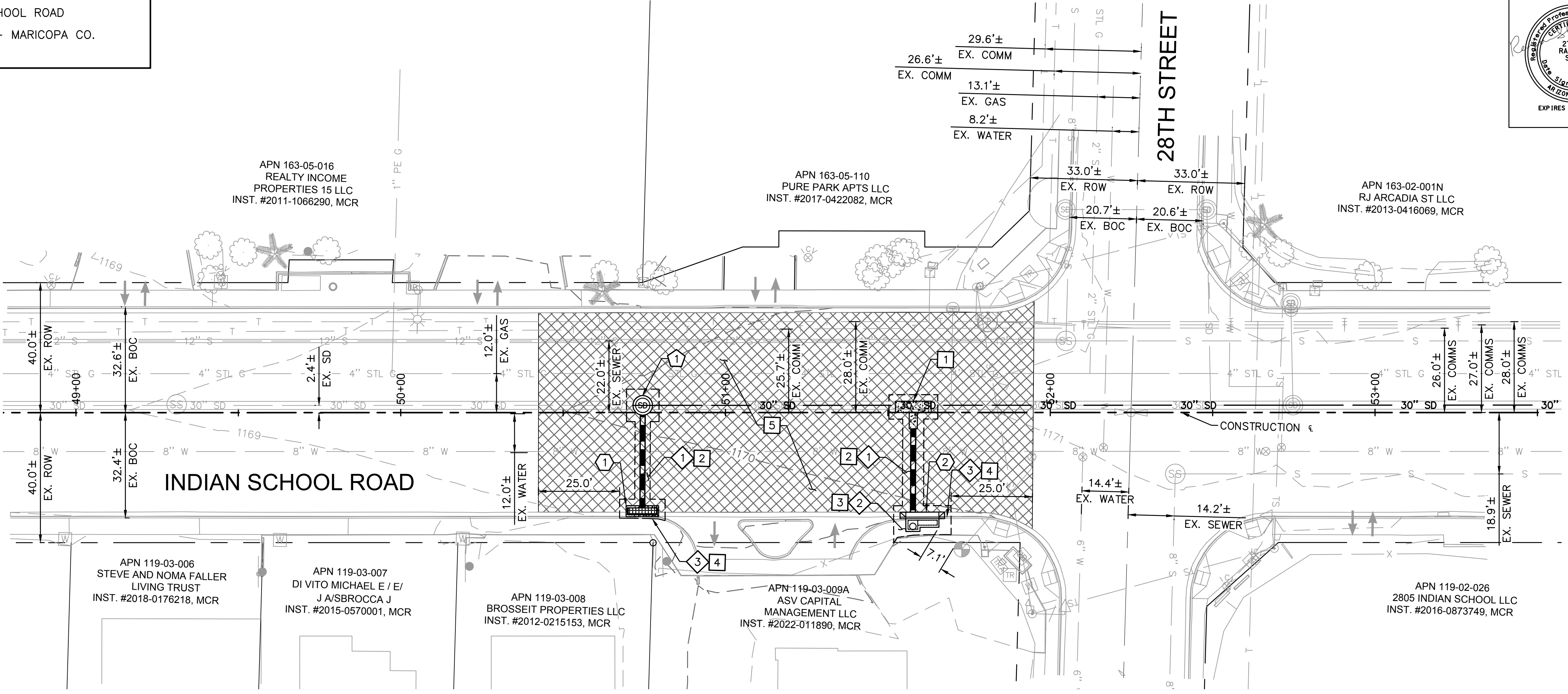
NO.	INLET STATION	INLET TYPE	CONN TYPE	SIZE PIPE	PIPE LF
1	50+74.40 30.36' R	P1570, N, TRIPLE	MH	18" CLASS III RGRCP	33
2	51+57.70 35.05' R	P1584, R-1, L=6'	TEE	18" CLASS III RGRCP	38

* CONTRACTOR TO VERIFY THE DEPTH OF 30" STORM DRAIN PRIOR TO CONSTRUCTION

REMOVALS & ADJUSTMENTS

NO.	DESCRIPTION	QUANTITY
1	SAWCUT, REMOVE EXISTING AC PAVEMENT	66 SY
2	SAWCUT, REMOVE EXISTING SIDEWALK	88 SF
3	SAWCUT, REMOVE EXISTING CURB AND GUTTER	32 LF

REVISION BY	DESCRIPTION	NO.	DATE
CITY OF PHOENIX			
CITY OF PHOENIX			
CITY OF PHOENIX			
CITY OF PHOENIX			
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CITY OF PHOENIX			
CITY OF PHOENIX			
CITY OF PHOENIX			
CITY OF PHOENIX			



N

0 10 20 40

HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

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1001 N. CENTRAL AVE
SUITE 900
PHOENIX, AZ 85004
www.ardurra.com

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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 YOUR CONTRACT WITH THE CITY OF PHOENIX."

PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

INDIAN SCHOOL ROAD
27TH ST TO 28TH ST
ST83140115

DR: BR	DES: BR/JU	CK: JU	SHEET NO: 23	TOTAL SHEETS: 43	AS BUILT
DATE: 11/22	DATE: 11/22	DATE: 11/22			
SHEET NAME: PP01					

CITY OF PHOENIX

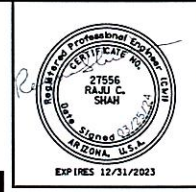
STREET TRANSPORTATION DEPARTMENT

DESIGN & CONSTRUCTION MANAGEMENT DIVISION

2021 ARPA LOCAL DRAINAGE MITIGATION PACKAGE 2

33RD AVE & TAYLOR ST DRAINAGE IMPROVEMENTS

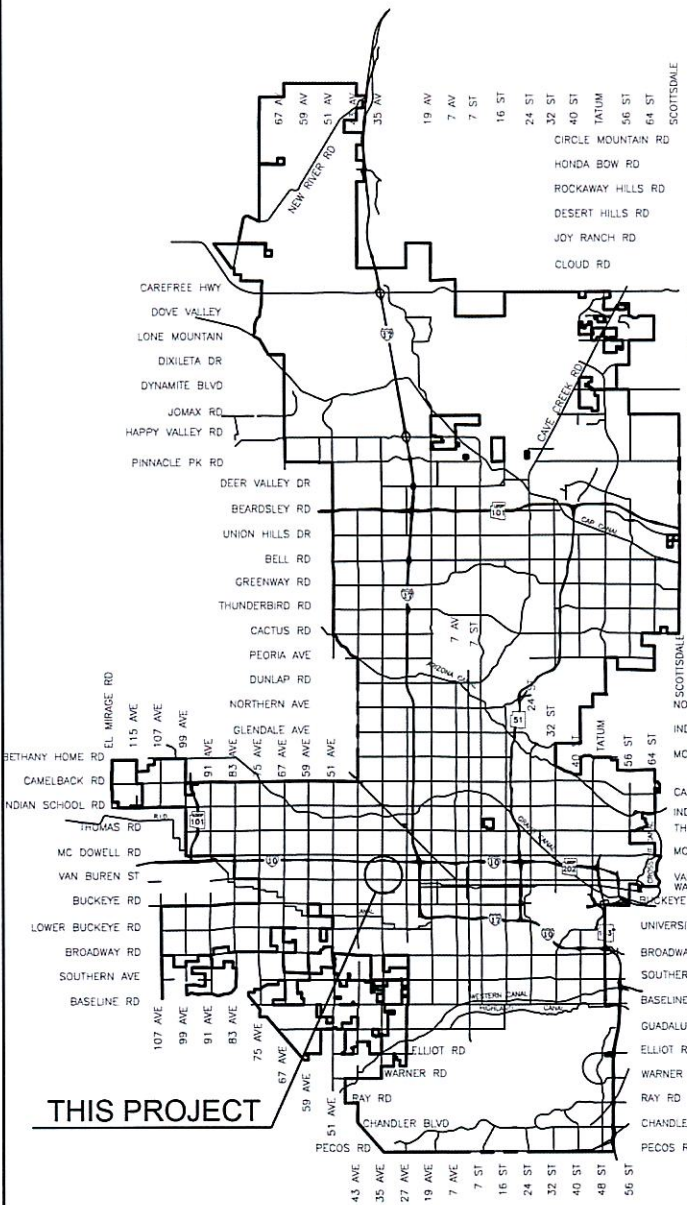
ST83140116



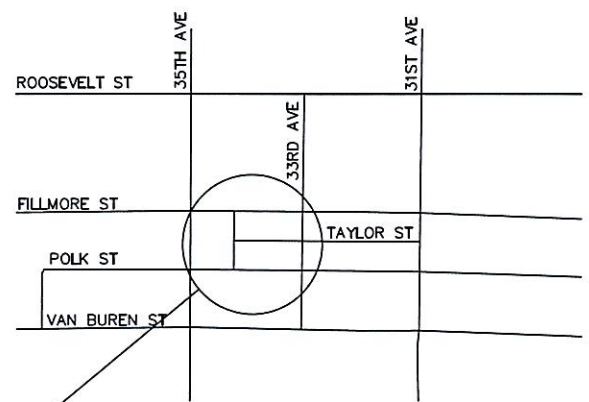
F.H.W.A REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST73140116	24	43	
ARDURRA					
CONSULTING ENGINEER					
DES: RS	DR: LA	CK: RS	DATE: 03/24		

MAYOR
KATE GALLEGO
CITY MANAGER
JEFFREY 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. YASSAMIN ANSARI
- DISTRICT NO 8. KESHA HODGE WASHINGTON



VICINITY MAP
NTS



LOCATION MAP

2024

PROJECT LENGTH:

1772 LF

DISTURBED AREA:

1.00 ACRES

City Benchmark:

BENCHMARK NO. 1
3" CITY OF PHOENIX BRASS CAP IN HAND HOLE
LOCATED AT THE INTERSECTION OF 35TH AVENUE AND
VAN BUREN STREET
(NGVD 29) ELEVATION=1062.18'


BENCHMARK NO. 2
3" CITY OF PHOENIX BRASS CAP IN HAND HOLE
LOCATED AT THE INTERSECTION OF 27TH AVENUE AND
ROOSEVELT STREET
(NGVD 29) ELEVATION=1075.09'


AS-BUILT CERTIFICATION

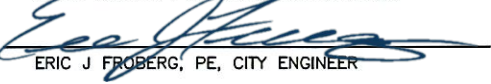
I HEREBY CERTIFY THAT THE AS-BUILT (AB) MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY DIRECT SUPERVISION AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

INDEX OF SHEETS

24	COVER SHEET
25	LEGEND AND NOTES SHEET
26	KEY MAP
27	DRAINAGE SUMMARY SHEET
28	GEOMETRIC CONTROL SHEET
29	TYPICAL SECTIONS
30-34	PLAN/PROFILE SHEETS
35	CONNECTOR PIPE PROFILES SHEET
36-37	WATERLINE PLAN/PROFILE SHEETS

APPROVED 
WATER SERVICES DEPARTMENT

APPROVED 
NAZAR NABATY, PE, FLOODPLAIN MANAGER

APPROVED 
ERIC J FROBERG, PE, CITY ENGINEER

6/24/2024
DATE

6/25/2024
DATE

06/26/2024
DATE

PREPARED FOR
CITY OF PHOENIX
STREET TRANSPORTATION DEPT.
200 WEST WASHINGTON STREET
PHOENIX, AZ 85003-1611
PHONE: 602-495-5938
CONTACT: RYAN BENTZ
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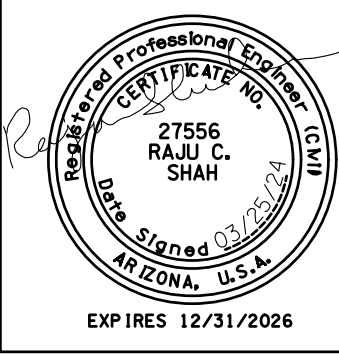


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Q.S. 11-21
 100 % SUBMITTAL
 ST83140116
 DRAWING FILE NAME, REVISION DATE

TAYLOR STREET AND
33RD AVENUE INTERSECTION
PHOENIX – MARICOPA CO.

LEGEND, ABBREVIATIONS AND NOTES



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140116	25	43	
03/25 DATE			ARDURRA CONSULTING ENGINEER		
DESIGN: RS		DRAWN: LA		CHECKED: RS	

NOTES

ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CONTRACT SPECIAL PROVISIONS AND DETAILS, 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.

ALL STORM SEWER MANHOLES ARE TO BE CONSTRUCTED WITHOUT STEPS. 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.

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 P-1576.

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 M.A.G. DETAIL 505. ANY ANGLE BENDS GREATER THAN 22-1/2' SHALL BE PREFABRICATED. CONNECTOR PIPES SHALL CONNECT TO CATCH BASIN WALLS AT AN ANGLE NOT TO EXCEED 22-1/2' FROM PERPENDICULAR.

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. TWO WORKING DAYS BEFORE CONSTRUCTION, THE CONTRACTOR SHALL CONTACT BLUESTAKE TO FIND AND FLAG UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT OTHER APPROPRIATE UTILITIES DIRECTLY IF THEY ARE NOT ON BLUESTAKE SYSTEM.

VERTICAL CONTROL IS BASED ON PHOENIX DATUM NGVD-29

UNLESS OTHERWISE NOTED, STATIONS SHOWN ON PIPE PROFILES ARE ALONG CENTERLINE OF PIPE. UNLESS OTHERWISE NOTED, PIPE SHALL BE BEDDED IN ACCORDANCE WITH CITY OF PHOENIX DETAIL P1200.

CATCH BASINS ARE STATIONED PERPENDICULAR TO THE CENTERLINE OF THE STREET AT THE CENTERLINE OF THE MAINTENANCE BASIN.

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.

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.

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.

ALL EXISTING DRIVEWAYS AND ALL EXISTING ALLEYS SHALL BE GRADED TO MATCH THE NEW WORK IN ACCORDANCE WITH STD. DETAIL P-1164, UNLESS OTHERWISE SPECIFIED. EXISTING SURFACING SHALL BE REMOVED AND REPLACED AS NECESSARY.

UNLESS OTHERWISE PROVIDED ON THE PLANS, EXISTING A.C. OR P.C.C. DRIVEWAYS AND SIDEWALKS WHICH FALL WITHIN OR ABUT THE RIGHT OF WAY SHALL BE CONNECTED TO THE NEW WORK AS FOLLOWS:

THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING A.C. DRIVEWAYS SHALL BE FILLED WITH A MINIMUM OF 3" A.C.S.C. ON 100% COMPACTED NATIVE SOIL. WHERE EXISTING PAVEMENT AND BASE THICKNESS EXCEED THE MINIMUMS, MATCH THE EXISTING.

THE SPACE BETWEEN THE BACK OF NEW SIDEWALKS AND EXISTING PRIVATE SIDEWALKS, AND THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING P.C.C. DRIVEWAYS SHALL BE FILLED WITH P.C.C.. THE THICKNESS AND CLASS SHALL MATCH THAT OF THE NEW SIDEWALK OR DRIVEWAY ENTRANCE.

UNLESS OTHERWISE PROVIDED ON THE PLANS, THE SPACE BETWEEN THE BACK OF THE NEW SIDEWALKS, AND EXISTING A.C. PARKING LOTS, WHICH FALL WITHIN OR ABUT THE R/W SHALL BE FILLED WITH 2" A.C.S.C. ON 100% COMPACTED NATIVE SOIL.

EXISTING IRRIGATION BERMS DISTURBED BY NEW CONSTRUCTION SHALL BE RECONSTRUCTED AS SHOWN ON PLANS.

M.A.G. ALLEY ENTRANCE DETAILS 260, 261, 262 AND 263, WHICH ARE INDICATED TO BE MODIFIED ON THESE PLANS SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL NUMBER EXCEPT THAT THE SLAB SHALL BE 9" THICK. DRIVEWAYS DESIGNATED ON THE PLANS AS M.A.G. DETAILS 250 AND 251 SHALL BE RESIDENTIAL DRIVEWAYS 5" THICK. ALL OTHER DRIVEWAYS SHALL BE CITY OF PHOENIX DETAILS P1255.

CATCH BASIN ACCESS FRAME AND COVERS SHALL BE CONSTRUCTED PER C.O.P. DETAIL P1561.

STRUCTURAL NOTES

"CLEAR" DIMENSIONS FOR DEPTH OF REINFORCING STEEL ARE FROM FACE OF CONCRETE TO FACE OF BARS.

ALL EXPOSED EDGES OF CONCRETE SHALL BE BEVELED OR ROUNDED.

ALL EXPOSED CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH ARIZONA DEPT. OF TRANSPORTATION STANDARD SPECIFICATION 601-3.05 -FINISHING FORMED CONCRETE, UNLESS OTHERWISE SPECIFIED.

LEGEND

- BENCHMARK
- NEW 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 "B"
- COMBINED CURB & GUTTER - M.A.G. DETAIL 220 TYPE "A"
- BACKFILL TYPE & SQ. YD. PVMT. REPLACEMENT - C.O.P. DETAIL P1200
- EXISTING CONCRETE PAVEMENT OR SIDEWALK
- NEW CONCRETE SIDEWALK - STD. DETAIL P-1230
- NEW CONCRETE DRIVEWAY OR ALLEY ENT. PER DETAIL NO. ON PLANS
- NEW CONCRETE SIDEWALK RAMP PER DETAIL ON PLANS
- AVERAGE GROUND ELEVATION AT R/W LINE EXISTING DITCH EXISTING IRRIGATION LINE
- W/SIZE (NOTE PRIVATE, SALT RIVER OR R.I.D.)
- EXISTING IRRIGATION STRUCTURE
- EXISTING IRRIGATION STANDPIPE
- NEW IRRIGATION STANDPIPE - M.A.G. DETAIL 503
- NEW IRRIGATION VALVE - M.A.G. DETAIL 506 W/ CONC. SCOURING BASIN
- IRRIGATION BERM
- NEW IRRIGATION STRUCTURE PER DETAIL ON PLANS
- EXISTING WATER LINE W/SIZE & TYPE (12" AND SMALLER)
- EXISTING WATER LINE W/SIZE & TYPE (GREATER THAN 12")
- ADJUST EXIST. WATER VALVE BOX - C.O.P. DETAIL P1391 WATER SERVICE W/SIZE AND
- WATER METER BOX
- EXISTING FIRE HYDRANT
- NEW OR RELOCATED FIRE HYDRANT BY CONTRACTOR
- EXISTING WATER VALVE W/TOP OF OPERATING NUT ELEVATION
- EXISTING SANITARY SEWER LINE W/SIZE & TYPE (12" AND SMALLER)
- EXISTING SANITARY SEWER LINE W/SIZE & TYPE (GREATER THAN 12")
- EXISTING MANHOLE
- NEW MANHOLE
- CATCH BASIN, GUTTER INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB & GUTTER INLET (LENGTH TO SCALE)
- EXISTING STORM DRAIN LINE W/SIZE & TYPE (GREATER THAN 12")
- NEW PIPE FOR STORM DRAIN OR IRRIGATION LINE
- EXISTING GAS LINE W/SIZE
- EXISTING UNDERGROUND ELECTRIC CABLE OR SINGLE CONDUIT
- EXISTING UNDERGROUND ELECTRIC DUCT (SPECIFY NUMBER)
- EXISTING TELEPHONE BURIED CABLE OR SINGLE CONDUIT
- EXISTING UNDERGROUND TELEPHONE DUCT (SPECIFY NUMBER)
- EXISTING UNDERGROUND CABLE TV
- EXISTING UNDERGROUND FIBER OPTIC LINE
- EXISTING TRAFFIC SIGNAL POLE W/MAST ARM & SIGNAL INDICATIONS
- EXISTING STREET OR TRAFFIC SIGN
- EXISTING UTILITY POLE W/LINE INDICATING WIRE DIRECTION
- EXISTING WIRE FENCE
- EXISTING BLOCK FENCE
- EXISTING WOOD FENCE
- MAIL BOX
- EXISTING POWER POLE DOWN GUY ANCHOR
- EXISTING STREET LIGHT & POLE
- EXISTING TREE OR STUMP TO BE REMOVED - MORE THAN 12" DIA.
- EXISTING TREE TO BE TRANSPLANTED BY CONTRACTOR
- EASEMENT LINE
- EXISTING OR NEW R/W LINE
- PAVEMENT CENTER LINE OR MONUMENT LINE
- EXISTING TREE TO BE REMOVED (NON PAY ITEM)
- EXISTING TREE TO REMAIN

ABBREVIATIONS

- W WATER
- UGE UNDERGROUND ELECTRIC
- G GAS
- STL G STEEL GAS LINE
- PE G POLYETHYLENE GAS LINE
- SD STORM DRAIN
- CATV CABLE TELEVISION
- OHE OVERHEAD ELECTRIC
- OHT OVERHEAD TELEPHONE
- T TELEPHONE
- F FIBER OPTIC
- S SEWER
- MAG MARICOPA ASSOCIATION OF GOVERNMENTS
- C.O.P. CITY OF PHOENIX
- O.D. OUTER DIAMETER
- DET DETAIL
- STD STANDARD
- FLG FLANGED
- MJ MECHANICAL JOINT
- NTS NOT TO SCALE
- CU. FT. CUBIC FEET
- AC ASPHALT CONCRETE
- ABC AGGREGATE BASE CONCRETE
- EXIST EXISTING
- PROP PROPOSED
- AP ANGLE POINT
- STA STATION
- TC TOP OF CURB
- G GUTTER
- SW SIDEWALK
- BCR BEGIN CURB RETURN
- ECR END CURB RETURN
- EL ELEVATION
- SY SQUARE YARDS
- EA EACH
- LF LINEAR FEET
- DIAM DIAMETER
- NO. NUMBER
- SE SOUTH EAST
- SW SOUTH WEST
- NE NORTH EAST
- NW NORTH WEST
- R/W RIGHT-OF-WAY
- ESMT EASEMENT
- APN ASSESSOR PARCEL NUMBER
- PVMT PAVEMENT
- C/L CENTERLINE
- F/C FACE OF CURB
- PCCP PORTLAND CEMENT CONCRETE PAVEMENT
- EX/EXIST EXISTING
- SEC SECTION

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

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

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



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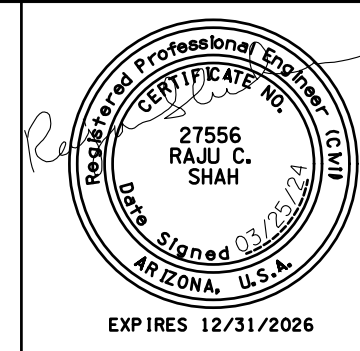
LEGEND, ABBREVIATIONS AND NOTES

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

TAYLOR STREET AND
33RD AVENUE INTERSECTION
ST83140116

DR: LA	DES: RS	CK: RS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 03/25	DATE: 03/25	DATE: 03/25	25	43	
SHEET NAME		LN01			

TAYLOR STREET AND
33RD AVENUE INTERSECTION
PHOENIX – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140116	26	43	

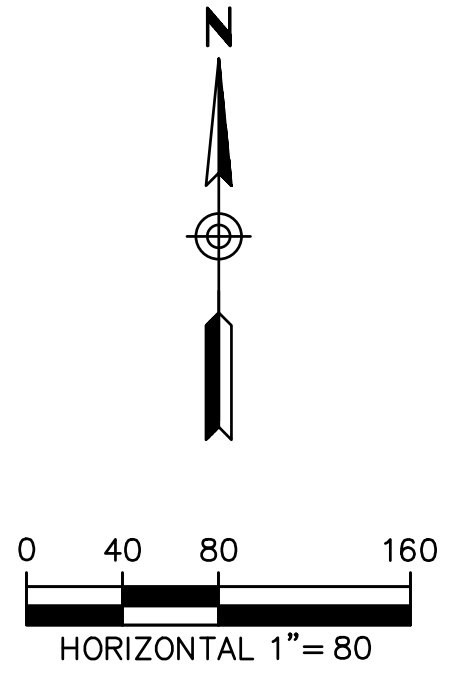
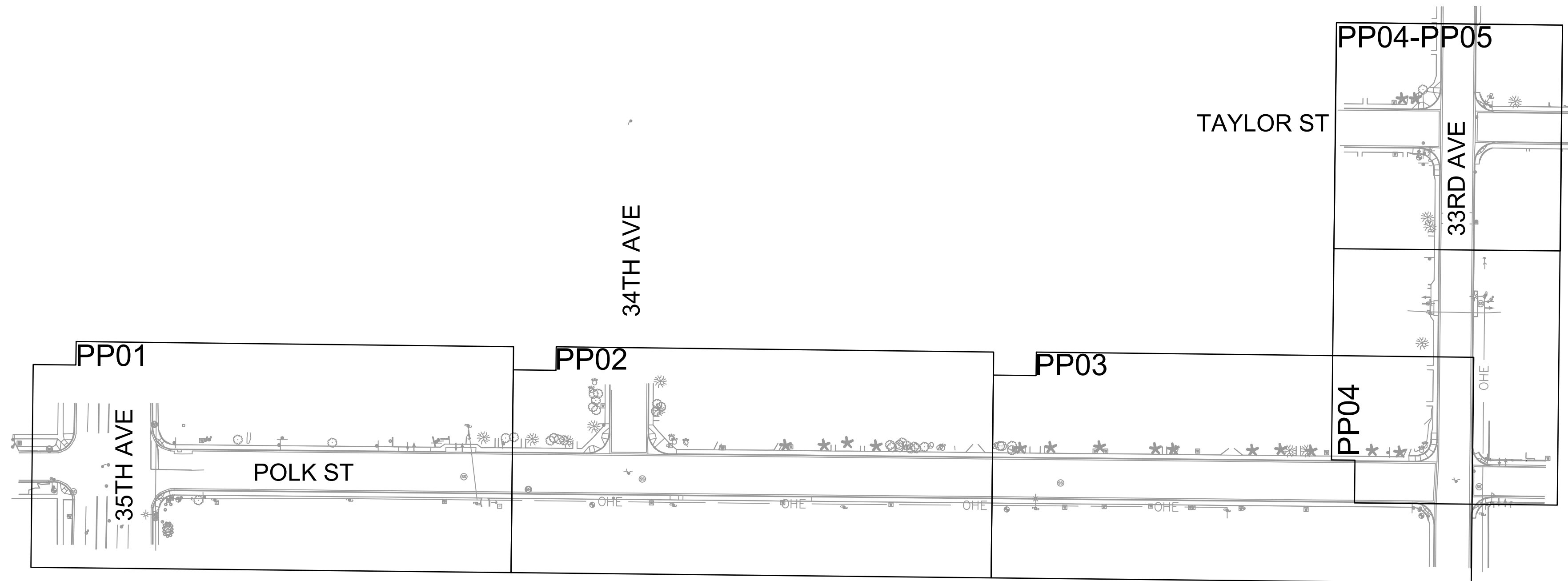
03/25
DATE
ARDURRA
CONSULTING ENGINEER

DESIGN: RS DRAWN: LA CHECKED: RS

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

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

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



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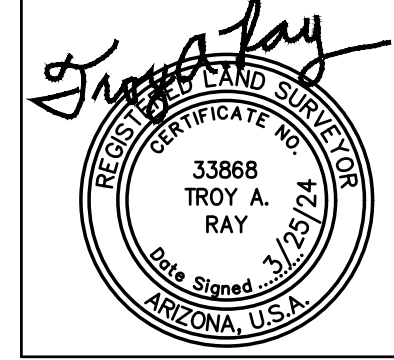
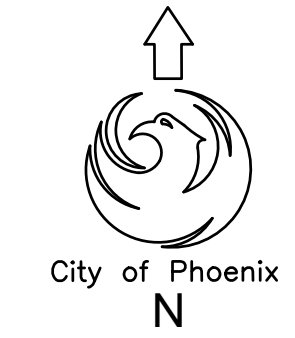
KEY MAP

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

TAYLOR STREET AND
33RD AVENUE INTERSECTION
ST83140116

DR: LA	DES: RS	CK: RS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 03/25	DATE: 03/25	DATE: 03/25	NO: 26	43	
SHEET NAME		KM01		26	43

TAYLOR STREET AND
33RD AVENUE INTERSECTION
PHOENIX — MARICOPA CO.



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140116	28	43	
DATE: 03/25			ARDURRA CONSULTING ENGINEER		
DESIGN: RS	DRAWN: LA	CHECKED: RS			

BASIS OF SURVEY

THE FOLLOWING PARAMETERS WERE SET FOR THE BASIS OF THIS SURVEY:

SYSTEM: UNITED STATES STATE PLANE NAD83
ZONE: ARIZONA CENTRAL
DATUM: NORTH AMERICAN 1983

UNITS = INTERNATIONAL FEET (1 FOOT = 0.3048 METERS EXACTLY)
TRIMBLE R8/R10 GPS EQUIPMENT AND TRIMBLE S6/S7 ROBOTICS WERE USED FOR ALL FIELD MEASUREMENTS. DIRECT SATELLITE MEASUREMENTS WERE MADE ON EACH POINT ON THE NORTH AMERICAN DATUM OF 1983 WITH AUTOMATIC TRANSLATIONS MADE TO THE STATE PLANE GRID SYSTEM.

GPS CALIBRATION AND TRANSLATION TO THE SURFACE WAS PERFORMED BY LAND SURVEY SOFTWARE. A GRID ADJUSTMENT FACTOR OF 1.00016 AND SCALE ORIGIN VALUES OF N=0.00, E=0.00

ALL BEARINGS ARE GROUND/GRID BEARINGS
ALL DISTANCES ARE GROUND DISTANCES (INTERNATIONAL FEET)
ALL COORDINATES ARE GROUND VALUES (INTERNATIONAL FEET)

BASIS OF BEARING

FOR THIS PROJECT IS N0°17'21"E FOR THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 2, TOWNSHIP 1 NORTH, RANGE 2 EAST OF THE GILA & SALT RIVER MERIDIAN AS CALCULATED FROM AN AMENDED PLSS SUBDIVISION RECORD OF SURVEY MARICOPA COUNTY GEODETIC DENSIFICATION AND CADASTRAL SURVEY RECORDED IN BOOK 821, PAGE 45, MARICOPA COUNTY RECORDS.

CITY OF PHOENIX BENCHMARKS

BENCHMARK NO. 1
3" CITY OF PHOENIX BRASS CAP IN HAND HOLE
LOCATED AT THE INTERSECTION OF 35TH AVENUE AND VAN BUREN STREET
(NGVD 29) ELEVATION=1062.18'

BENCHMARK NO. 2
3" CITY OF PHOENIX BRASS CAP IN HAND HOLE
LOCATED AT THE INTERSECTION OF 27TH AVENUE AND ROOSEVELT STREET
(NGVD 29) ELEVATION=1075.09'

PREPARED FOR

CITY OF PHOENIX
STREET TRANSPORTATION DEPT.
200 WEST WASHINGTON STREET
PHOENIX, AZ 85003-1611
PHONE: 602-495-5938
CONTACT: -

PREPARED BY

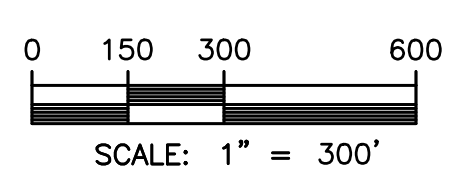
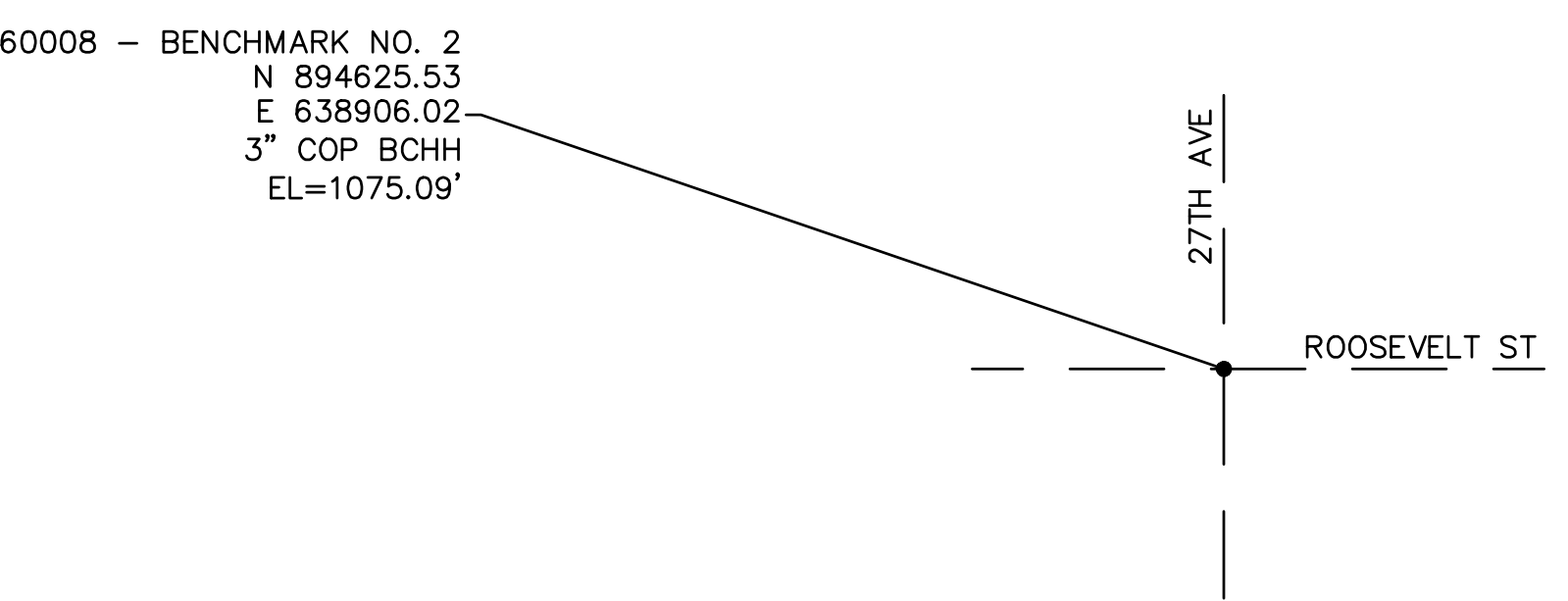
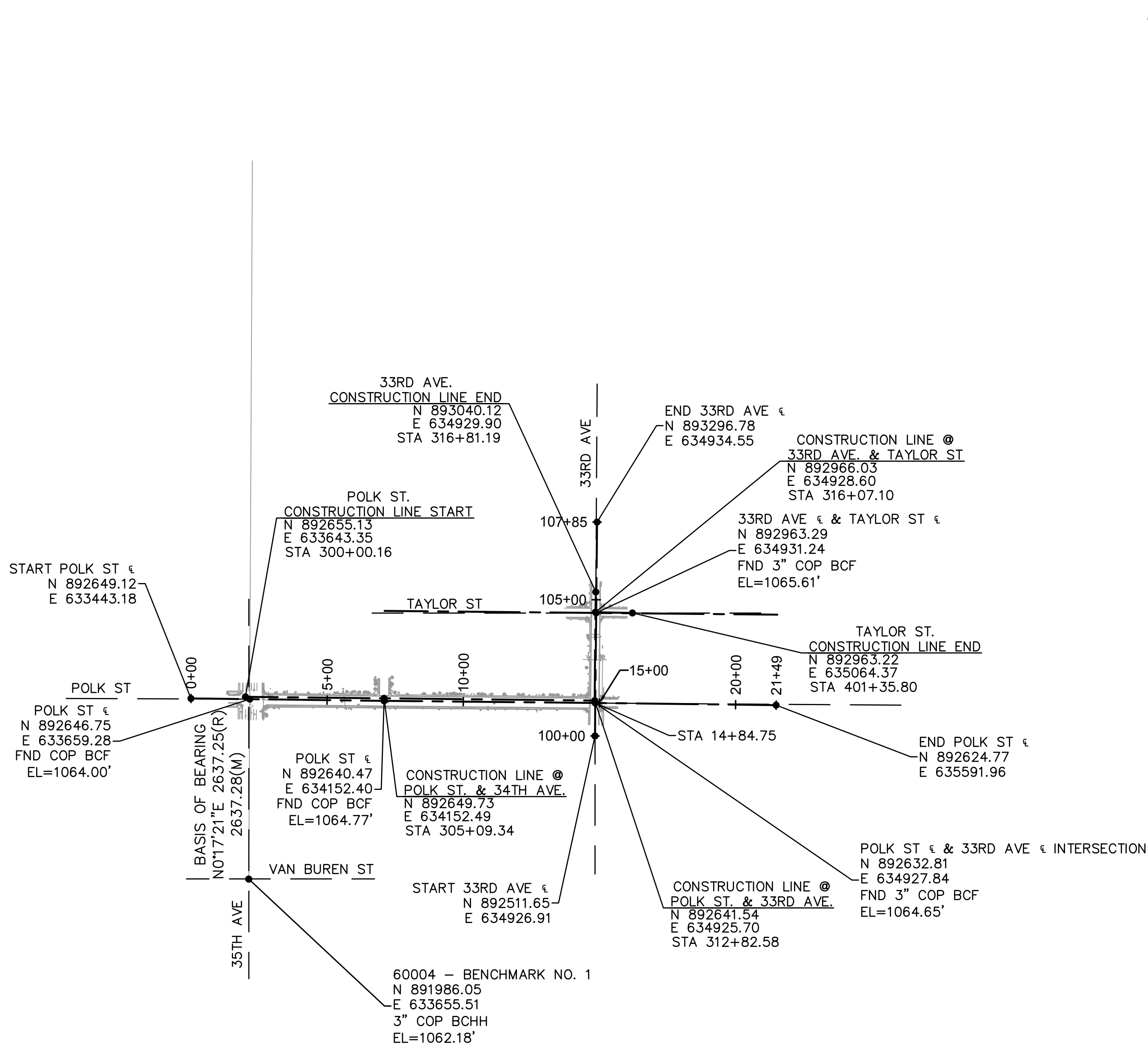
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CONTACT: RAJ SHAH



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REVISION BY CITY OF PHOENIX	DESCRIPTION	NO.	REV BY	CHK BY	DATE



CERTIFICATION

I, TROY RAY HEREBY CERTIFY THAT THIS DRAWING AND THE FIELD SURVEYS IT WAS BASED ON WERE PERFORMED AND PREPARED UNDER MY SUPERVISION DURING THE MONTH OF (MONTH YEAR). THE SURVEY AND THE MONUMENTS IT IS BASED ON ARE CORRECT AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Troy A. Ray
SURVEYOR
R.L.S.# 33868

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

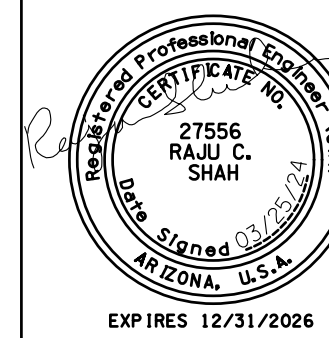
GEOMETRIC CONTROL SHEET

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

TAYLOR STREET AND
33RD AVENUE INTERSECTION
ST83140116

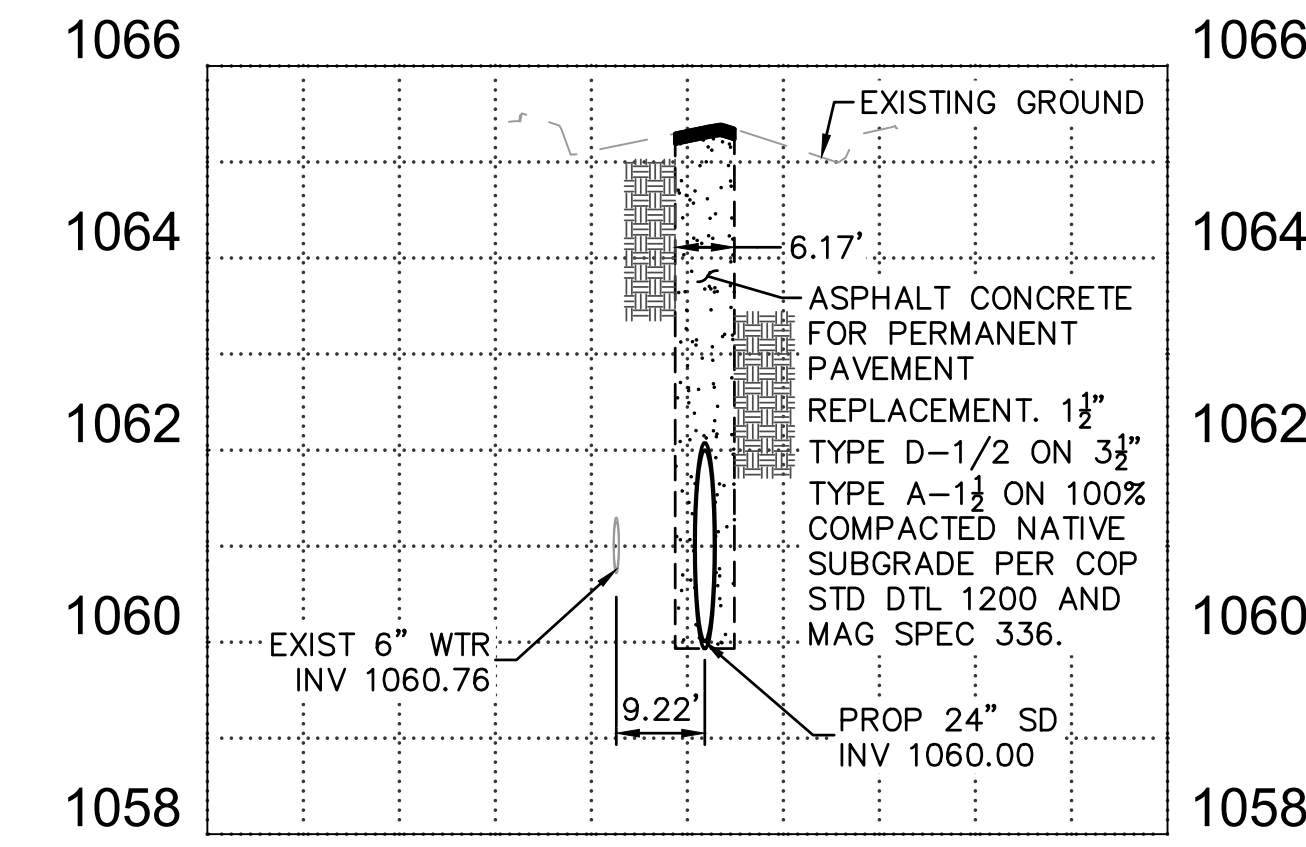
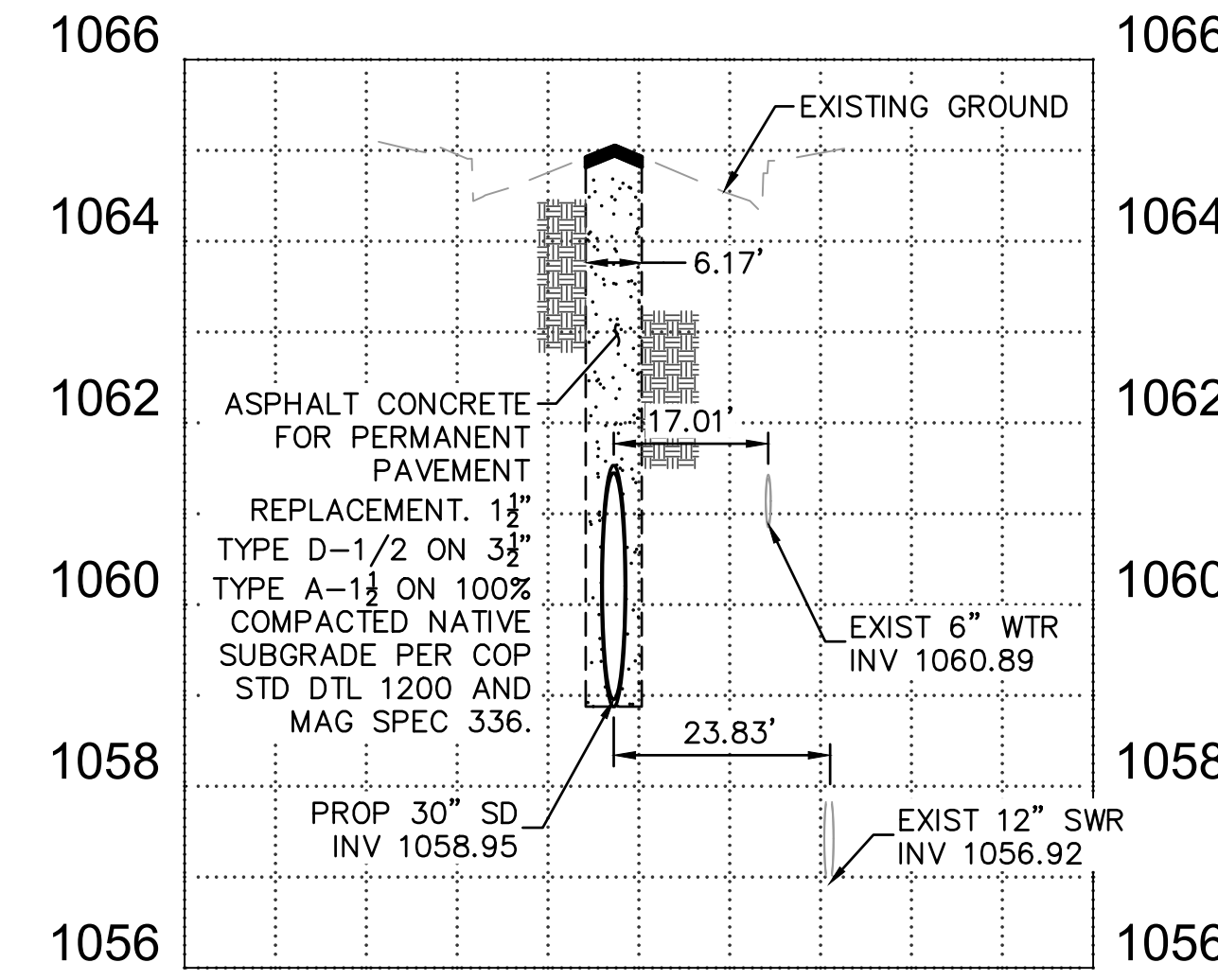
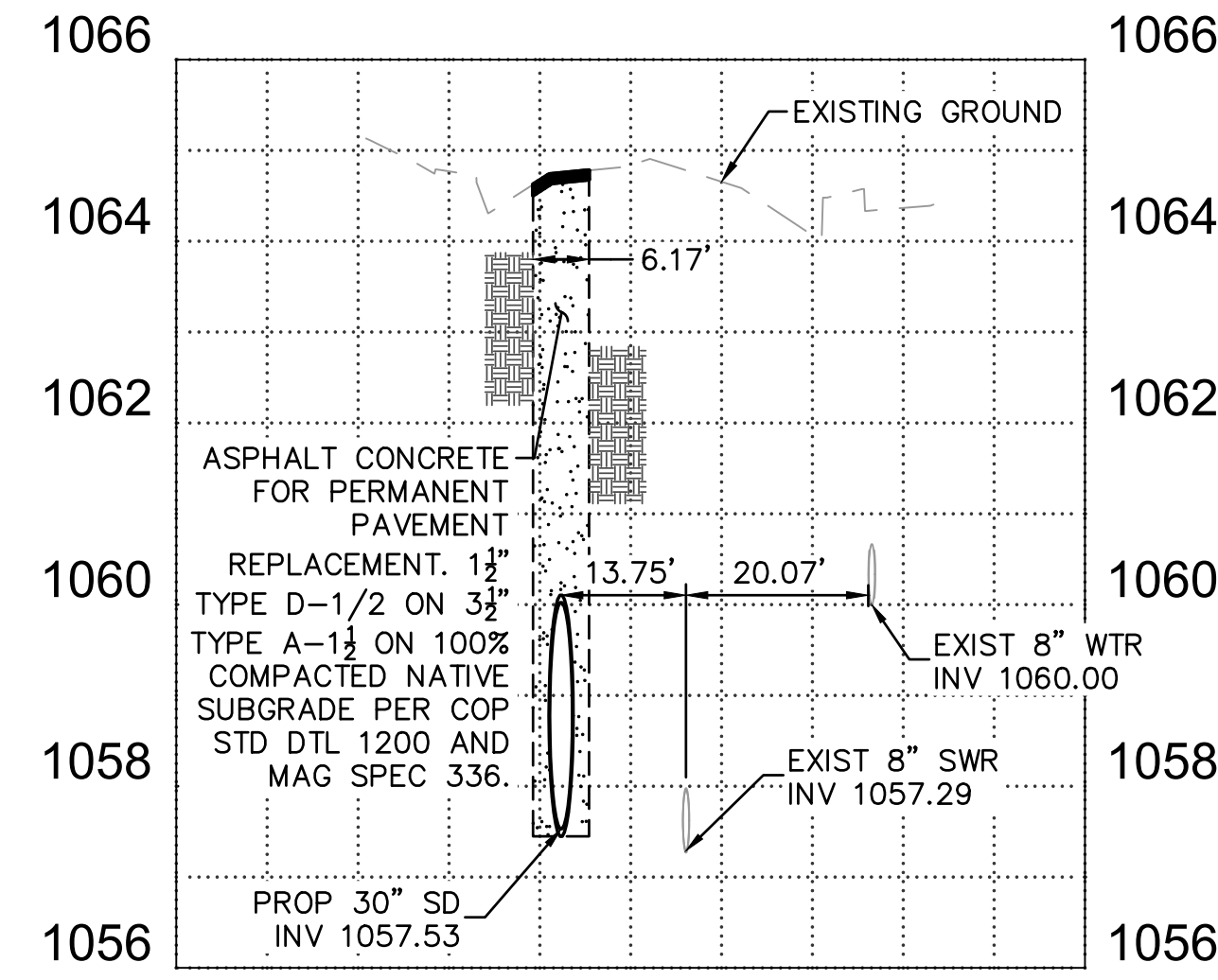
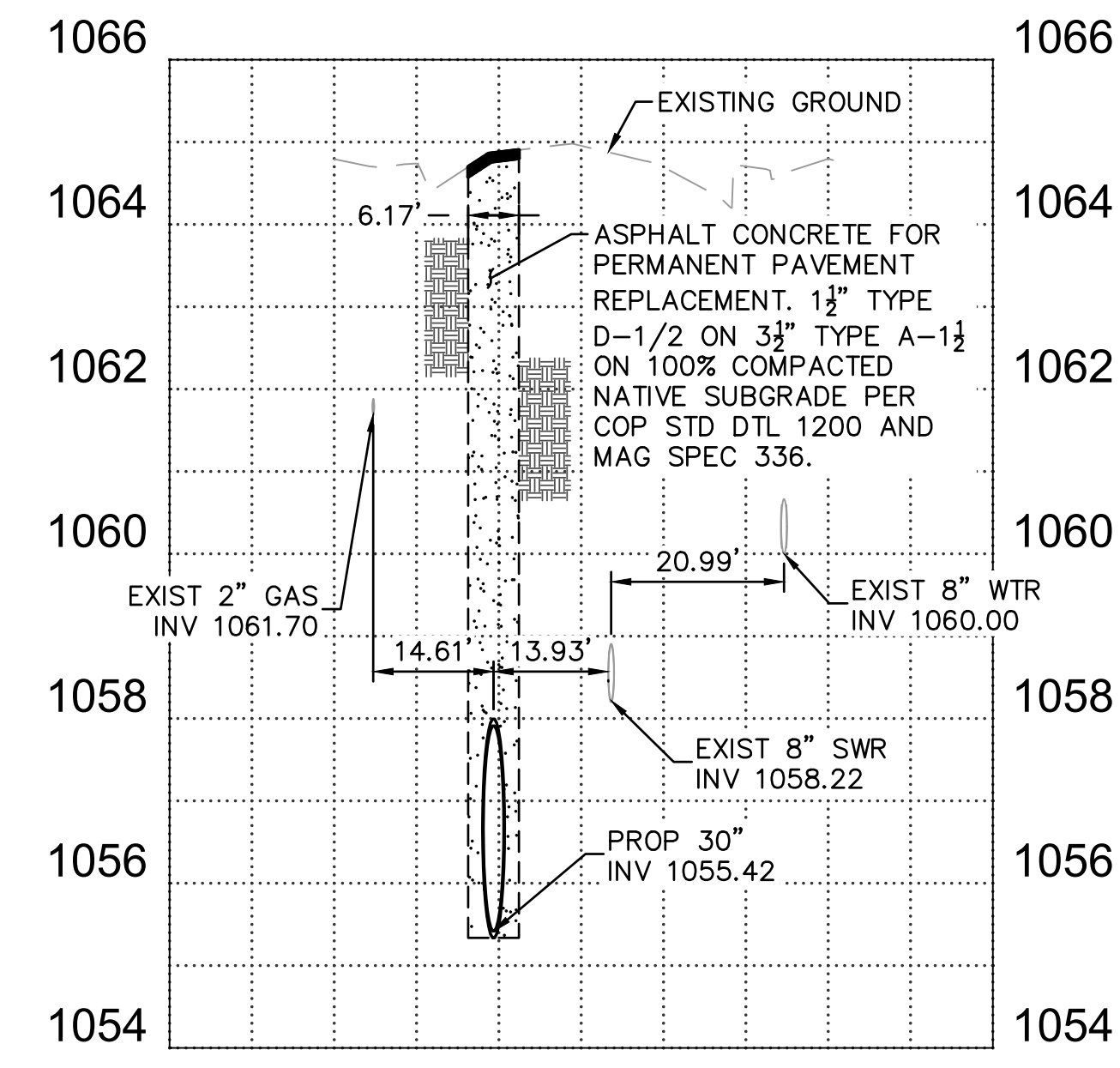
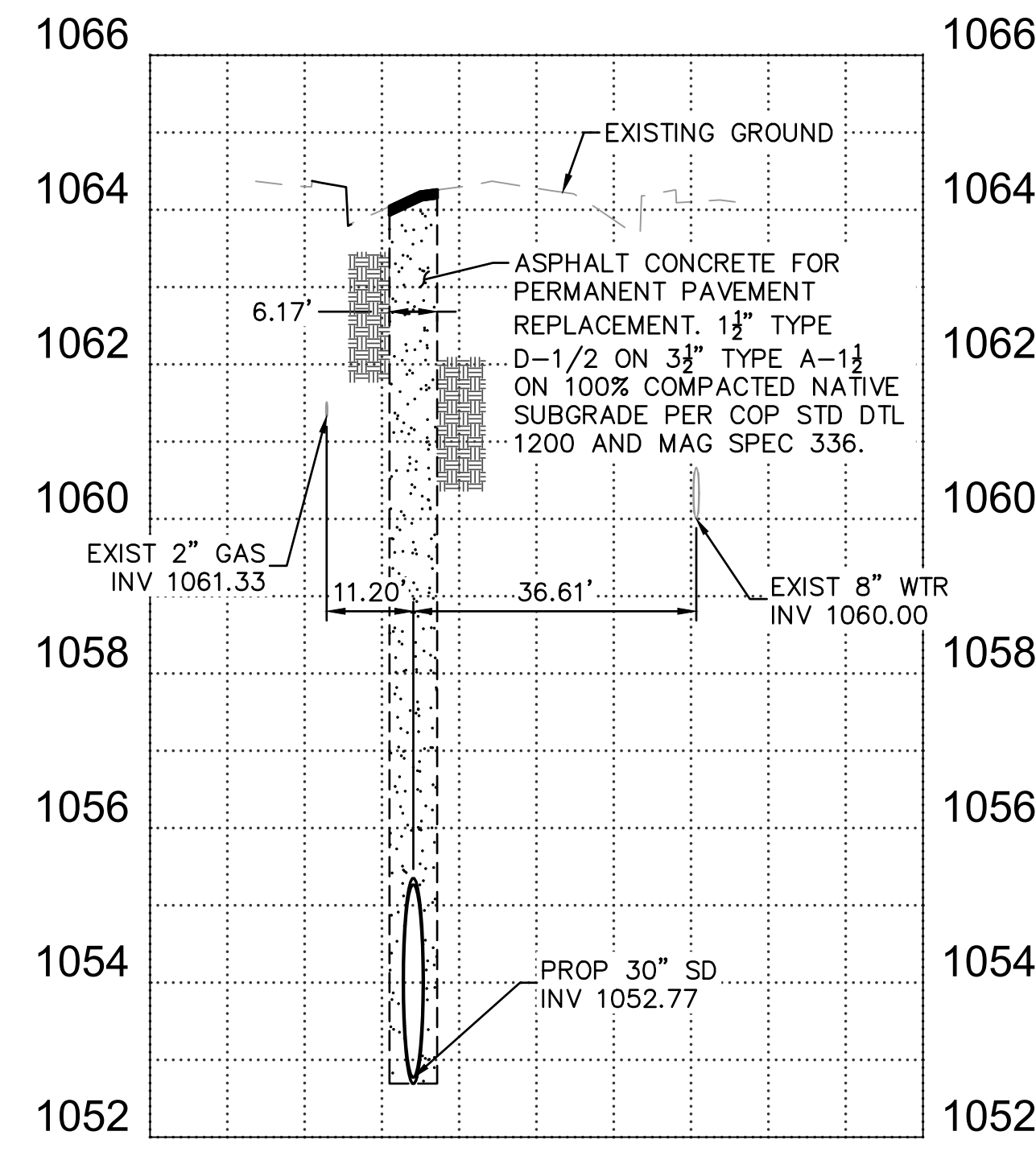
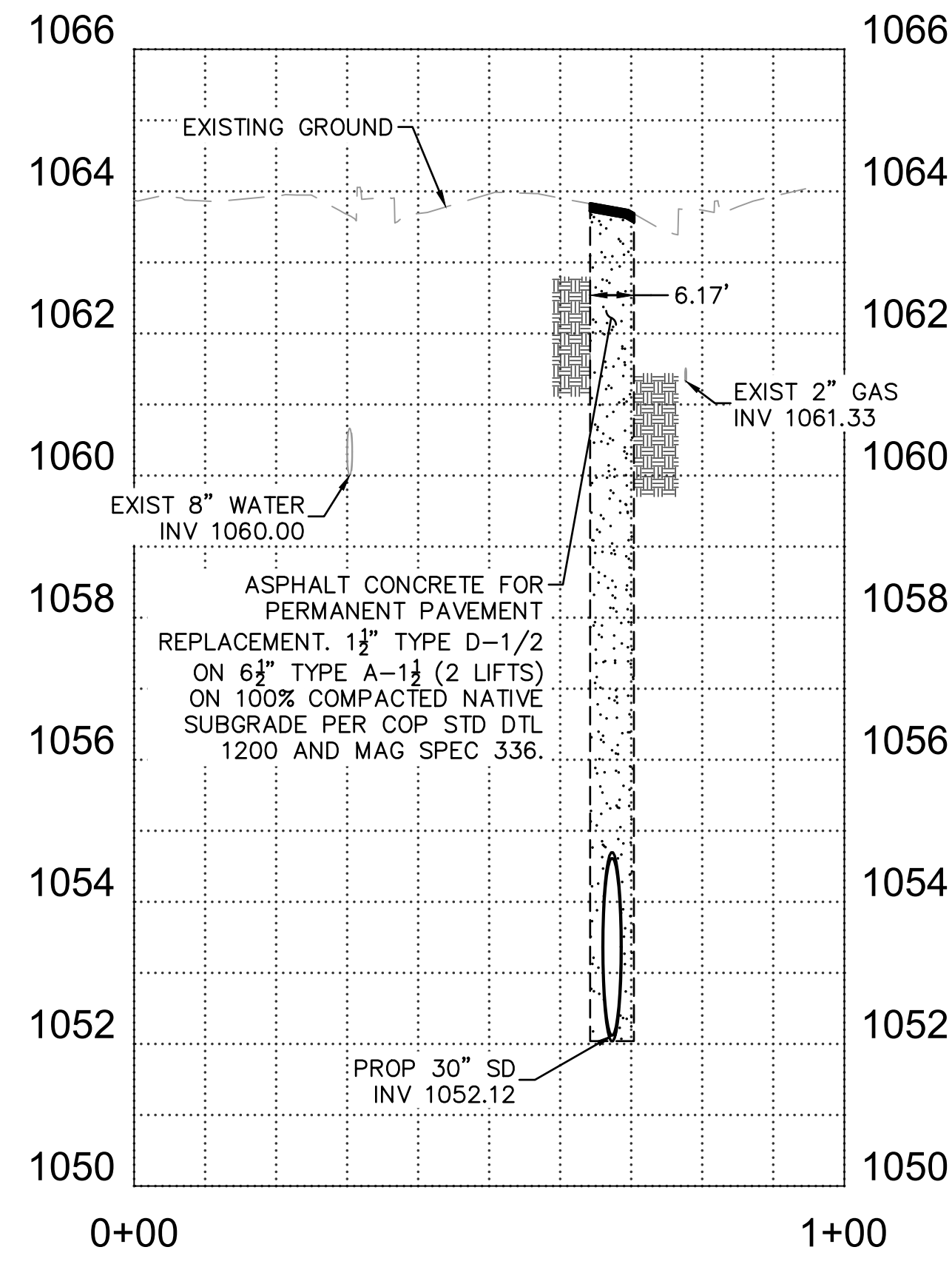
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DATE: 03/25	DATE: 03/25	DATE: 03/25	28	43	
SHEET NAME		GC01		28	43

TAYLOR STREET AND
33RD AVENUE INTERSECTION
PHOENIX - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140116	29	43	
DATE: 03/25			ARDURRA		
CONSULTING ENGINEER					
DESIGN: RS	DRAWN: LA	CHECKED: RS			

REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				



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TYPICAL SECTIONS
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
TAYLOR STREET AND
33RD AVENUE INTERSECTION
ST83140116

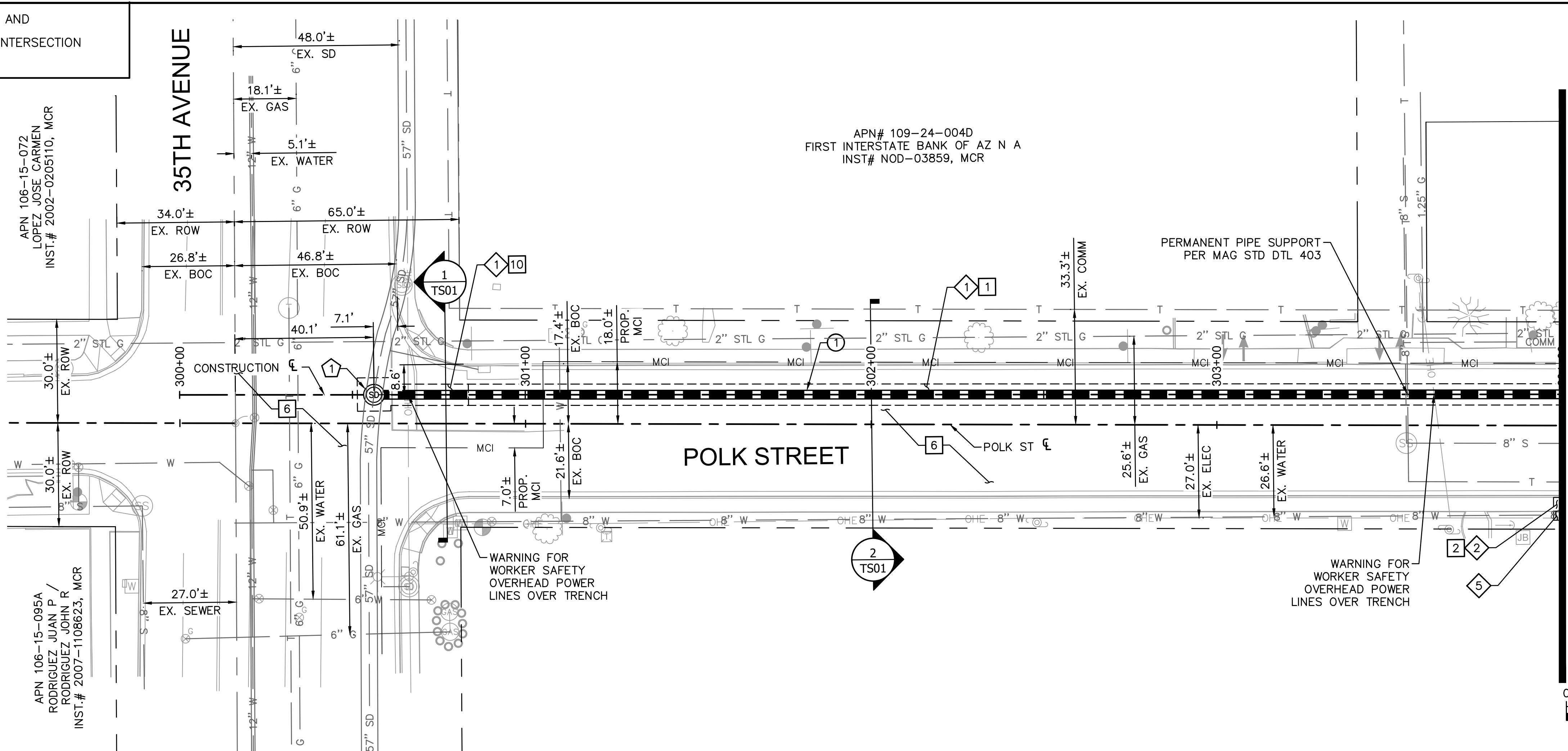
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DATE: 03/25	DATE: 03/25	DATE: 03/25	29	43	
SHEET NAME			TS01		

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

TAYLOR STREET AND
33RD AVENUE INTERSECTION



MATCHLINE STA 304+00 - PP02

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140116	30	43	

DATE	DESIGN: RS	DRAWN: LA	CHECKED: RS	CONSULTING ENGINEER
12/01				ARDURRA

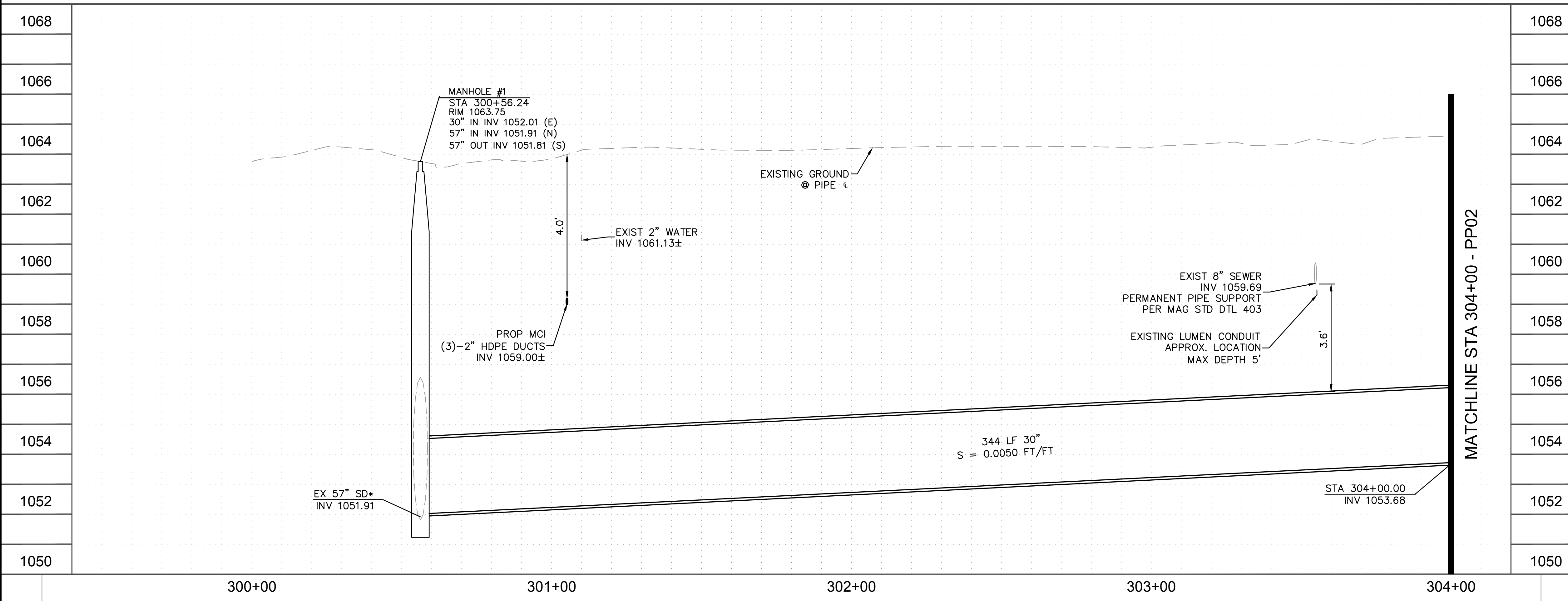
NO.	STATION TO STATION	SIZE	LF
①	300+56.24 TO 304+00.00, CLASS III RGRCP	30"	344

NO.	STATION	TYPE
①	300+56.24	P1560, P1424, & MAG DET 522

NO.	DESCRIPTION	QUANTITY
①	INSTALL ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 1 1/2" TYPE D- 1/2 ON 3 3/4" TYPE A-1 1/2 ON 100% COMPACTED NATIVE SUBGRADE	217 SY
②	INSTALL CONCRETE SIDEWALK PER COP STD DTL P-1230	10 SF
⑥	INSTALL MICRO-SEAL COAT	1736 SY
⑩	INSTALL ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 1 1/2" TYPE D- 1/2 ON 6 1/2" TYPE A-1 1/2 ON 100% COMPACTED NATIVE SUBGRADE	26 SY

NO.	DESCRIPTION	QUANTITY
①	SAWCUT, REMOVE EXISTING AC PAVEMENT	243 SY
②	SAWCUT, REMOVE EXISTING SIDEWALK	10 SF
⑤	TRENCH EXCAVATION, BACKFILLING AND COMPACTION FOR WATERLINE REPLACEMENT	3 LF

*CONTRACTOR TO VERIFY DEPTH OF 57" STORM DRAIN PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IF THERE IS A DISCREPANCY



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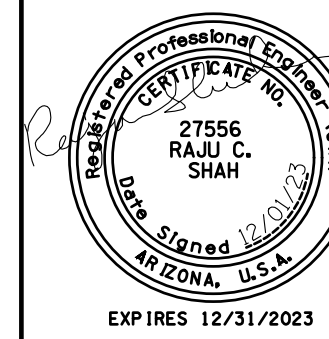
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PLAN AND PROFILE
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

**TAYLOR STREET AND
33RD AVENUE INTERSECTION
ST83140116**

DR: LA	DES: RS	CK: RS	SHEET NO.	TOTAL SHEETS	AS BUILT
DATE: 12/01	DATE: 12/01	DATE: 12/01	30	43	
SHEET NAME			PP01		

TAYLOR STREET AND
33RD AVENUE INTERSECTION



F.H.W.A. REGION 9	STATE ARIZ.	PROJECT NO. ST83140116	SHEET NO. 31	TOTAL SHEETS 43	AS BUILT
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12/01
DATE
DESIGN: RS
DRAWN: LA
CHECKED: RS

ARDURRA
CONSULTING ENGINEER

STORM DRAIN PIPE

NO.	STATION TO STATION	SIZE	LF
2	304+00.00 TO 304+56.27, CLASS III RGRCP	30"	47
3	304+56.27 TO 308+50.00, CLASS III RGRCP	30"	404

STORM DRAIN MANHOLE

NO.	STATION	TYPE
2	304+56.27	P1520, P1424, & MAG 522

CATCH BASIN & CONNECTOR PIPE

NO.	INLET STATION	INLET TYPE	CONN TYPE	PIPE	
				SIZE	LF
1N	304+56.22 11.85' L	P1569-1, M-1, L=10'	MH	15" CLASS III RGRCP	10
1S	304+56.41 32.19' R	P1569-1, M-1, L=10'	MH	15" CLASS III RGRCP	31

SEE SHEET 12 FOR C.B. & CONNECTOR PIPE PROFILE

CONSTRUCTION NOTES

NO.	DESCRIPTION	QUANTITY
1	INSTALL ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 1 1/2" TYPE D- 1/2 ON 3/4" TYPE A-1 1/2 ON 100% COMPACTED NATIVE SUBGRADE	340 SY
2	INSTALL CONCRETE SIDEWALK PER COP STD DTL P-1230	448 SF
3	INSTALL COMBINED CONCRETE CURB AND GUTTER PER MAG STD DTL 220, TYPE "A"	56 LF
5	VERTICAL REALIGNMENT OF 8" WATERLINE PER COP STD DTL P1370	112 LF
6	INSTALL MICRO-SEAL COAT	1761 SY
7	INSTALL 8"X6" TEE AND VALVE FOR EXISTING FIRE HYDRANT RECONNECTION	1 EA
8	INSTALL 6" DIP (CLASS 350) WATERLINE W/MEG-A-LUG RESTRAINED JOINTS (ALL DIP SHALL BE POLYETHYLENE WRAPPED PER COP SUPPLEMENT TO MAG SPECIFICATIONS SECTIONS 610.6.2, 610.6.3, AND 750.2)	40 LF
9	INSTALL 8"X6" DIP TEE AND VALVE	1 EA

REMOVALS & ADJUSTMENTS

NO.	DESCRIPTION	QUANTITY
1	SAWCUT, REMOVE EXISTING AC PAVEMENT	340 SY
2	SAWCUT, REMOVE EXISTING SIDEWALK	540 SF
3	SAWCUT, REMOVE EXISTING CURB AND GUTTER	93 LF
5	TRENCH EXCAVATION, BACKFILLING AND COMPACTION FOR WATERLINE REPLACEMENT	114 LF
7	REMOVE 6" ACP WATERLINE	40 LF
8	REMOVE 6" SERVICE VALVE	1 EA

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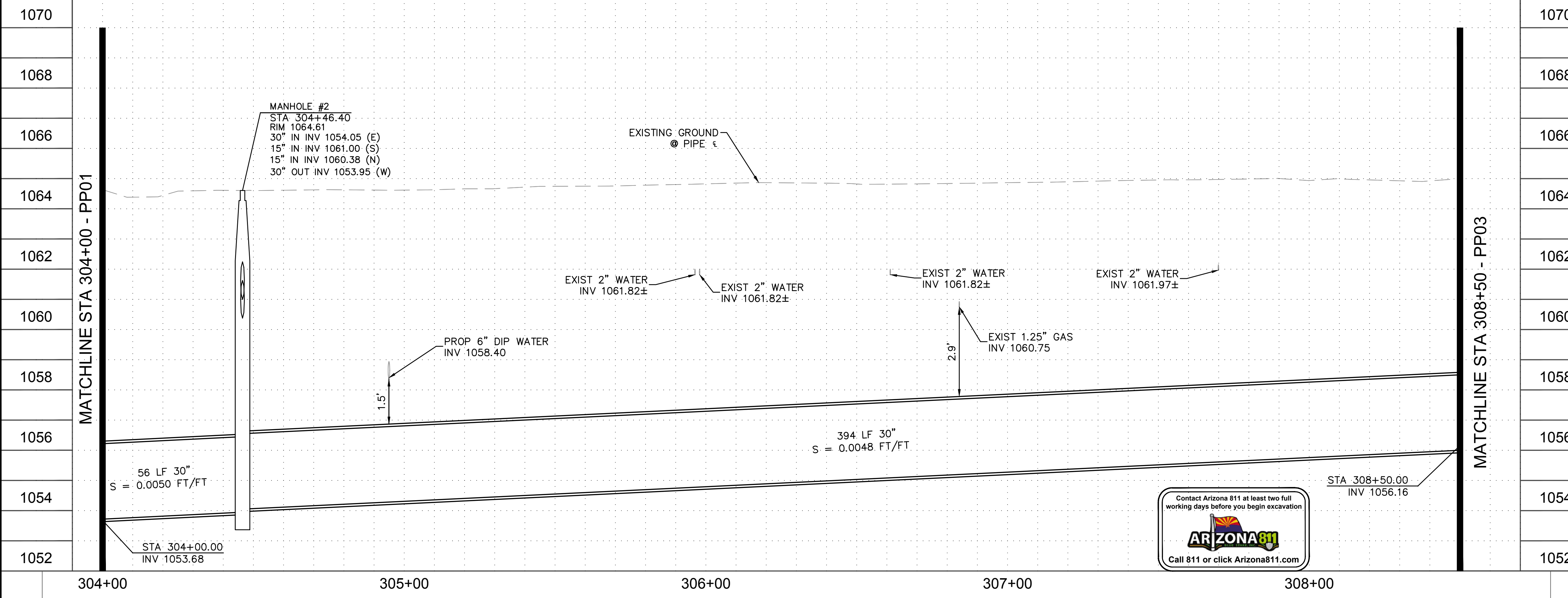
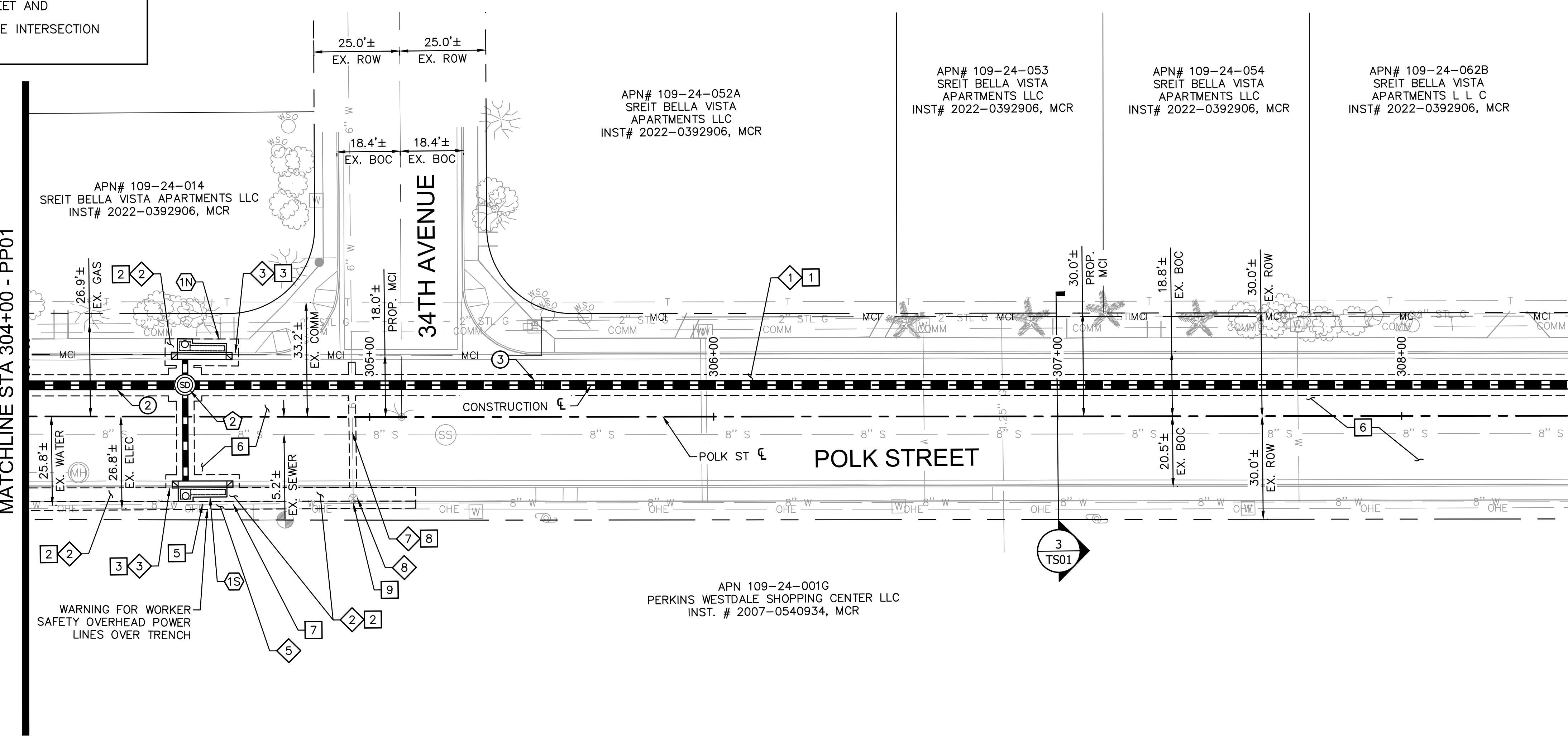
PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-26, THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX.

PLAN AND PROFILE

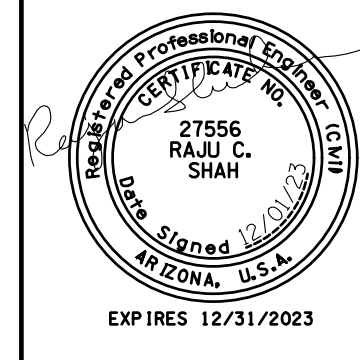
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

TAYLOR STREET AND
33RD AVENUE INTERSECTION
ST83140116

DR: LA	DES: RS	CK: RS	SHEET NO.: 31	TOTAL SHEETS: 43	AS BUILT
DATE: 12/01/2024			PP02		



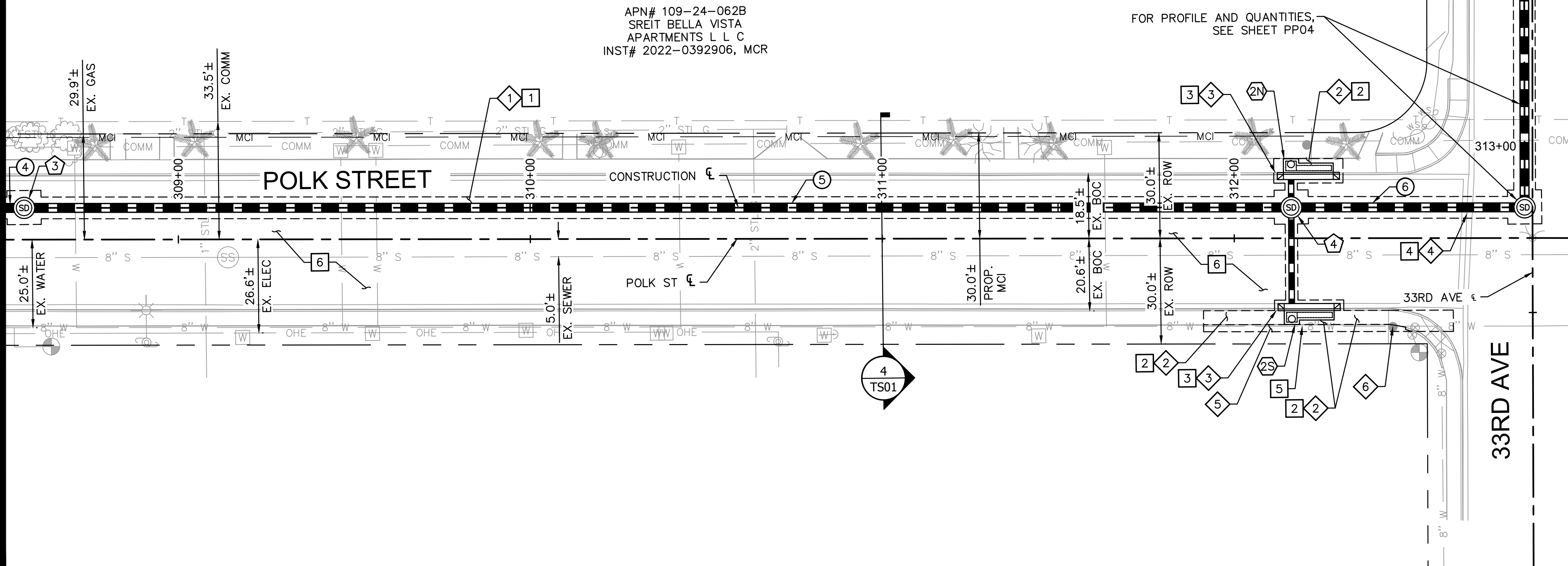
TAYLOR STREET AND
33RD AVENUE INTERSECTION



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140116	32	43	
12/01 DATE			ARDURRA CONSULTING ENGINEER		
DESIGN: RS		DRAWN: LA		CHECKED: RS	

REVISION BY CITY OF PHOENIX	DESCRIPTION	NO.	REV BY	CHK BY	DATE

MATCHLINE STA 308+50 - PP02



APN# 109-24-062B
SREIT BELLA VISTA
APARTMENTS L L C
INST# 2022-0392906, MCR

FOR PROFILE AND QUANTITIES,
SEE SHEET PP04

STORM DRAIN PIPE				
NO.	STATION TO STATION	SIZE	LF	
4	308+50.00 TO 308+56.24, CLASS III RGRCP	30"	6	
5	308+56.24 TO 312+16.30, CLASS III RGRCP	30"	360	
6	312+16.30 TO 312+82.58, CLASS III RGRCP	30"	66	

STORM DRAIN MANHOLE		
NO.	STATION	TYPE
3	308+56.24	P1520, P1424, & MAG 522
4	312+16.30	P1520, P1424, & MAG 522

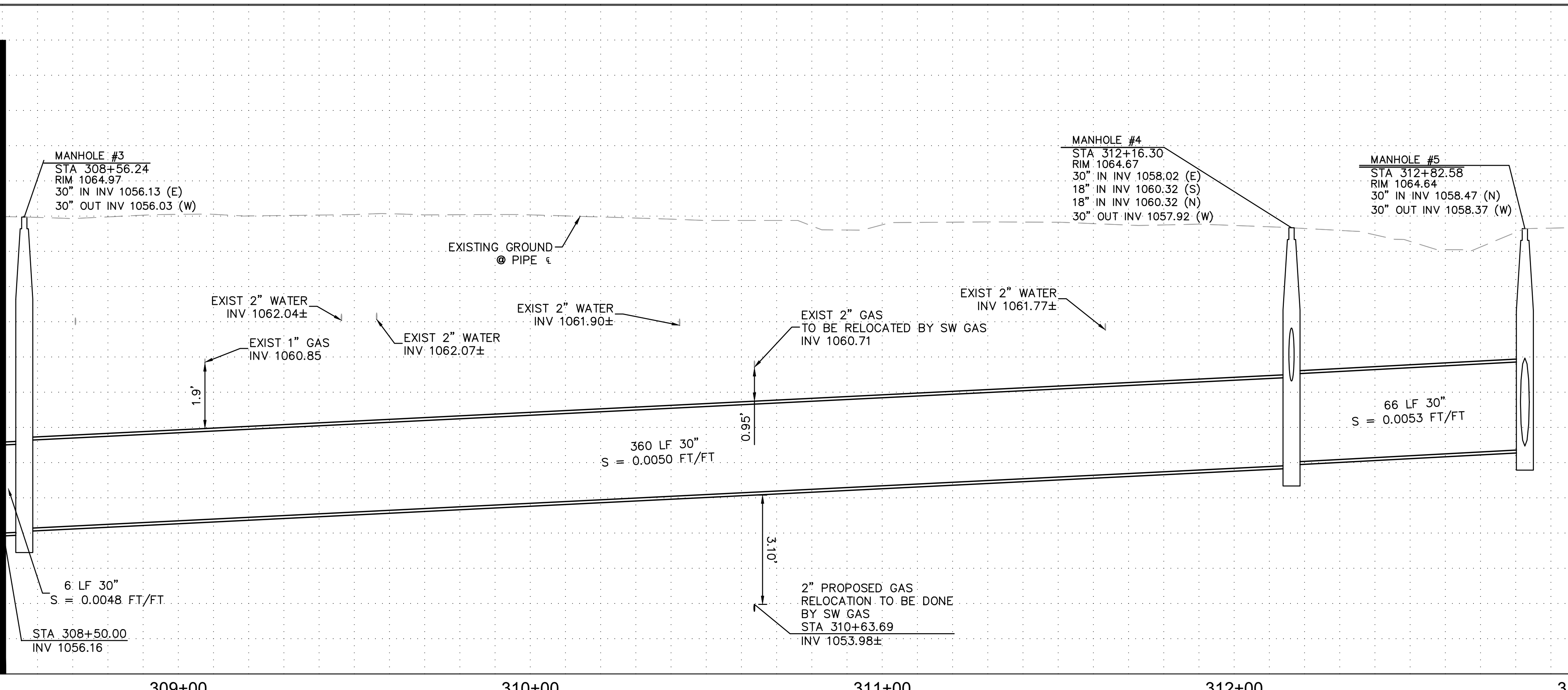
CATCH BASIN & CONNECTOR PIPE					
NO.	INLET STATION	INLET TYPE	CONN TYPE	PIPE SIZE	LF
2N	312+16.21 12.28' L	P1569-1, M-1, L=10'	MH	18" CLASS III RGRCP	11
2S	312+16.44 31.69' R	P1569-1, M-1, L=10'	MH	18" CLASS III RGRCP	30

SEE SHEET 12 FOR C.B. & CONNECTOR PIPE PROFILE

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QUANTITY
1	INSTALL ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 1 1/2" TYPE D- 1/2 ON 3/4" TYPE A-1 1/2 ON 100% COMPACTED NATIVE SUBGRADE	395 SY
2	INSTALL CONCRETE SIDEWALK PER COP STD DTL P-1230	253 SF
3	INSTALL COMBINED CONCRETE CURB AND GUTTER PER MAG STD DTL 220, TYPE "A"	18 LF
4	INSTALL VALLEY GUTTER PER MAG STD DTL 240	59 SF
5	VERTICAL REALIGNMENT OF 8" WATERLINE PER COP STD DTL P1370	67 LF
6	INSTALL MICRO-SEAL COAT	1614 SY

REMOVALS & ADJUSTMENTS		
NO.	DESCRIPTION	QUANTITY
1	SAWCUT, REMOVE EXISTING AC PAVEMENT	395 SY
2	SAWCUT, REMOVE EXISTING SIDEWALK	341 SF
3	SAWCUT, REMOVE EXISTING CURB AND GUTTER	54 LF
4	SAWCUT, REMOVE EXISTING VALLEY GUTTER	59 SF
5	TRENCH EXCAVATION, BACKFILLING AND COMPACTION FOR WATERLINE REPLACEMENT	61 LF
6	REMOVE AND REINSTALL EXISTING TRAFFIC SIGN	1 EA

MATCHLINE STA 308+50 - PP02

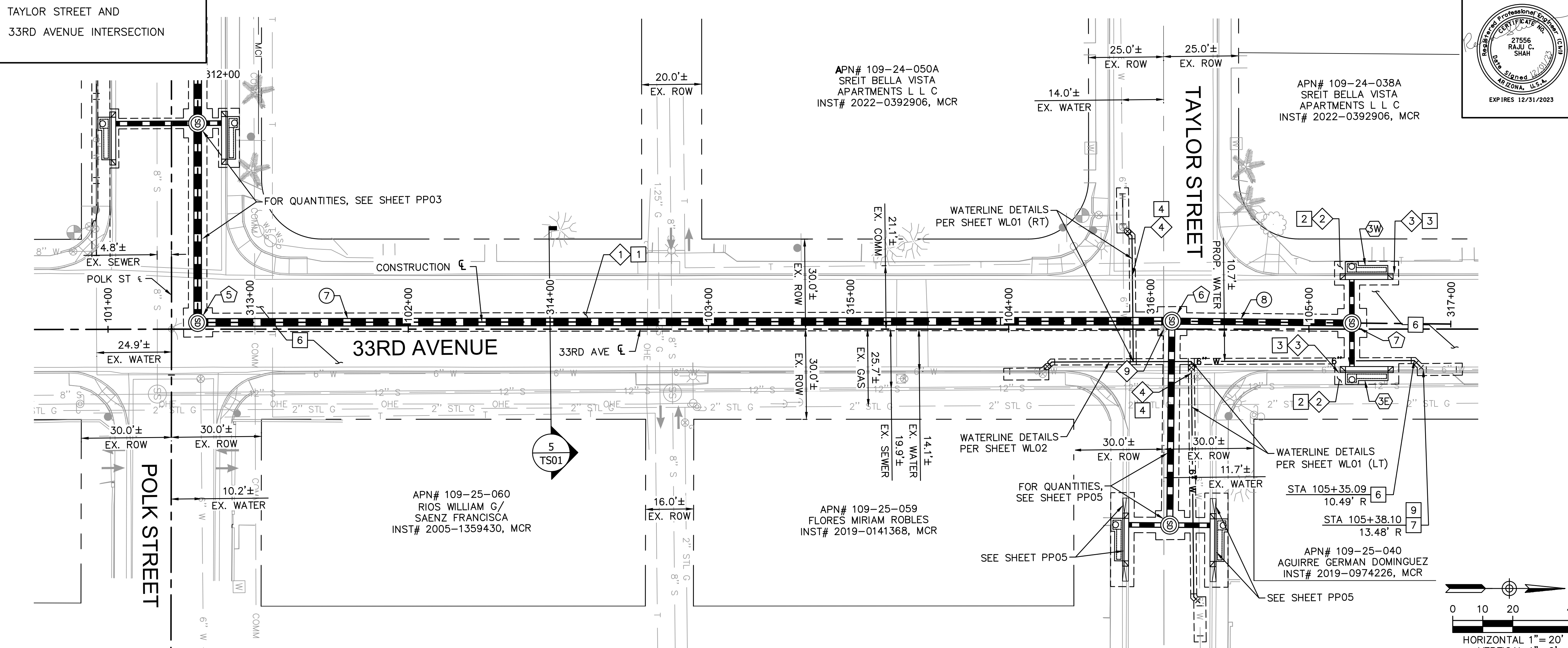


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PLAN AND PROFILE
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
**TAYLOR STREET AND
33RD AVENUE INTERSECTION**
ST83140116

DR: LA	DES: RS	CK: RS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 12/01	DATE: 12/01	DATE: 12/01	32	43	
SHEET NAME			PP03		

NO.	DESCRIPTION	REV BY	CKD BY	DATE



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140116	33	43	
12/01 DATE			ARDURRA CONSULTING ENGINEER		
DESIGN: RS		DRAWN: LA		CHECKED: RS	

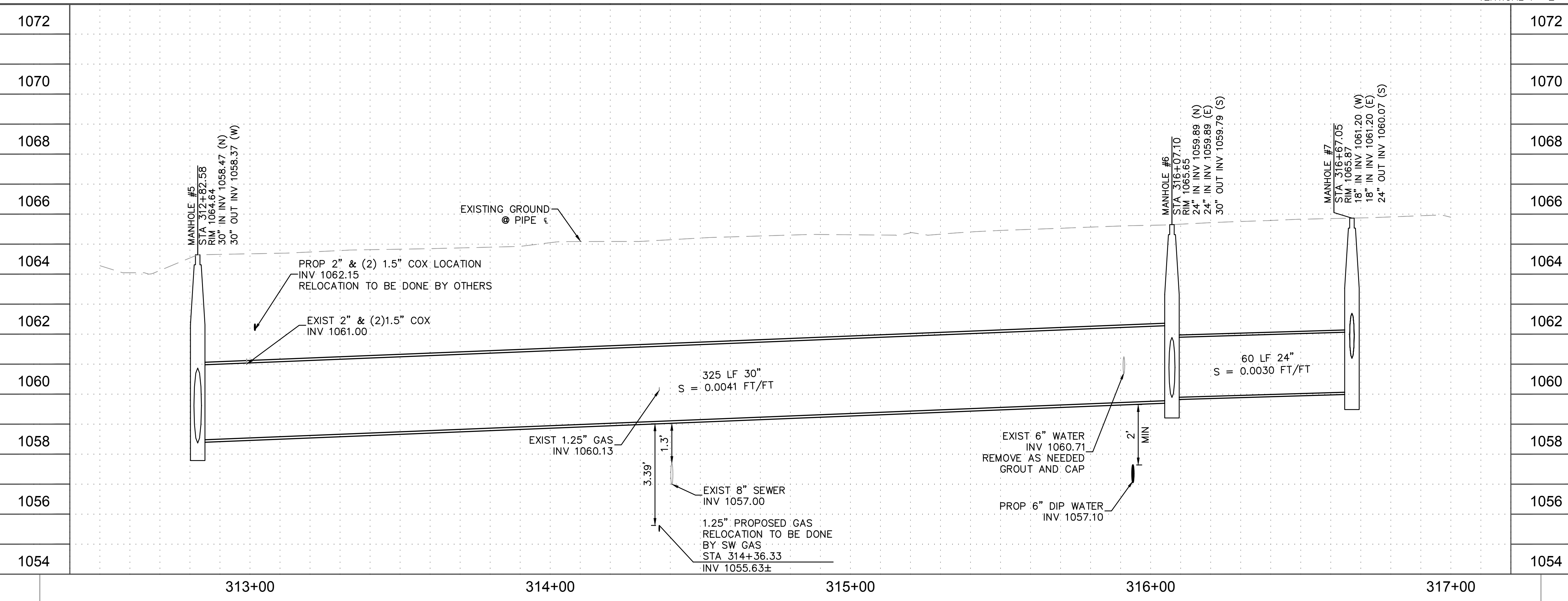
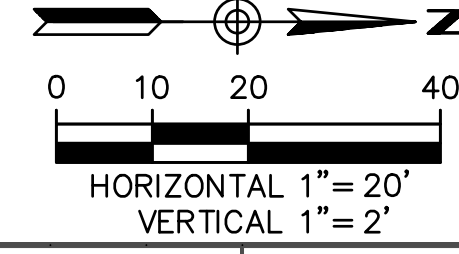
STORM DRAIN PIPE				
NO.	STATION TO STATION	TYPE	SIZE	LF
7	312+82.58 TO 316+07.10	CLASS III RGRCP	30"	325
8	316+07.10 TO 316+67.05	CLASS III RGRCP	24"	60

STORM DRAIN MANHOLE				
NO.	STATION	TYPE		
5	312+82.58	P1520, P1424, & MAG 522		
6	316+07.10	P1520, P1424, & MAG 522		
7	316+67.05	P1520, P1424, & MAG 522		

CATCH BASIN & CONNECTOR PIPE					
NO.	INLET STATION	INLET TYPE	CONN TYPE	PIPE SIZE	LF
5W	316+66.88	P1569-1, M-1, L=10'	MH	18" CLASS III RGRCP	17
3E	316+67.22	P1569-1, M-1, L=10'	MH	18" CLASS III RGRCP	17

CONSTRUCTION NOTES			
NO.	DESCRIPTION	QUANTITY	
1	INSTALL ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 1 1/2" TYPE D 1/2" ON 3 3/4" TYPE A-1 1/2 ON 100% COMPACTED NATIVE SUBGRADE	326	SY
2	INSTALL CONCRETE SIDEWALK PER COP STD DTL P-1230	83	SF
3	INSTALL COMBINED CONCRETE CURB AND GUTTER PER MAG STD DTL 220, TYPE "A"	30	LF
4	INSTALL VALLEY GUTTER PER MAG STD DTL 240	14	SF
6	INSTALL MICRO-SEAL COAT	1527	SY

REMOVALS & ADJUSTMENTS			
NO.	DESCRIPTION	QUANTITY	
1	SAWCUT, REMOVE EXISTING AC PAVEMENT	326	SY
2	SAWCUT, REMOVE EXISTING SIDEWALK	187	SF
3	SAWCUT, REMOVE EXISTING CURB AND GUTTER	65	LF
4	SAWCUT, REMOVE EXISTING VALLEY GUTTER	14	SF
9	REMOVE AND RESET SURVEY MONUMENT PER MAG STD DTL 120 "TYPE B"	1	EA





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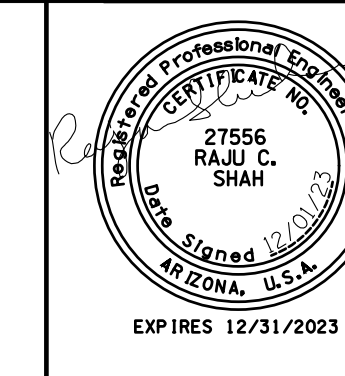

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PLAN AND PROFILE
 CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT
 TAYLOR STREET AND
 33RD AVENUE INTERSECTION
 ST83140116

DR: LA	DES: RS	CK: RS	SHEET NO.	TOTAL SHEETS	AS BUILT
DATE: 12/01	DATE: 12/01	DATE: 12/01	33	43	
SHEET NAME		PP04	33	43	

TAYLOR STREET AND
33RD AVENUE INTERSECTION



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140116	34	43	

12/01 DATE
ARDURRA CONSULTING ENGINEER

DESIGN: RS DRAWN: LA CHECKED: RS

STORM DRAIN PIPE

NO.	STATION TO STATION	SIZE	LF
9	400+00.00 TO 400+67.90, CLASS III RGRCP	24"	68

STORM DRAIN MANHOLE

NO.	STATION	TYPE
8	400+67.90	P1520, P1424, & MAG 522

CATCH BASIN & CONNECTOR PIPE

NO.	INLET STATION	INLET TYPE	CONN TYPE	PIPE SIZE	LF
4N	400+67.81 17.82' L	P1569-1, M-1, L=10'	MH	18" CLASS III RGRCP	16
4S	400+67.98 18.06' R	P1569-1, M-1, L=10'	MH	18" CLASS III RGRCP	17

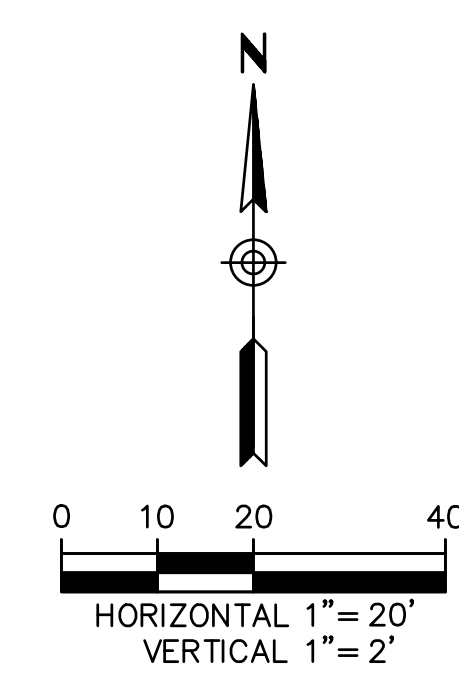
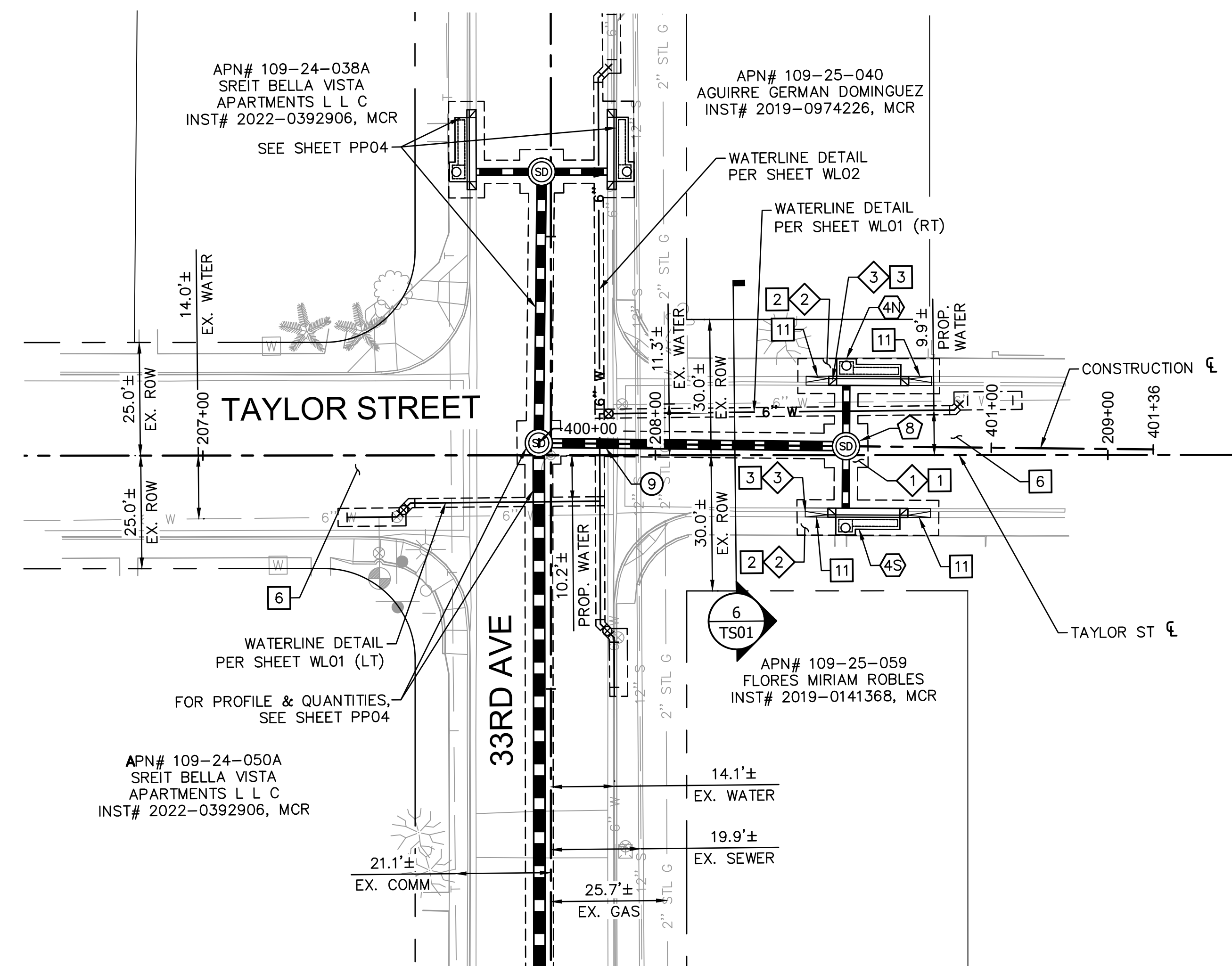
SEE SHEET 12 FOR C.B. & CONNECTOR PIPE PROFILE

CONSTRUCTION NOTES

NO.	DESCRIPTION	QUANTITY
1	INSTALL ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 1 1/2" TYPE D-1/2 ON 3 1/2" TYPE A-1 1/2 ON 100% COMPACTED NATIVE SUBGRADE	98 SY
2	INSTALL CONCRETE SIDEWALK PER COP STD DTL P-1230	162 SF
3	INSTALL COMBINED CONCRETE CURB AND GUTTER PER MAG STD DTL 220, TYPE "A"	30 LF
6	INSTALL MICRO-SEAL COAT	403 SY
11	TRANSITION FROM VERTICAL CURB & GUTTER TO ROLL CURB & GUTTER PER MAG STD DTL 221	4 EA

REMOVALS & ADJUSTMENTS

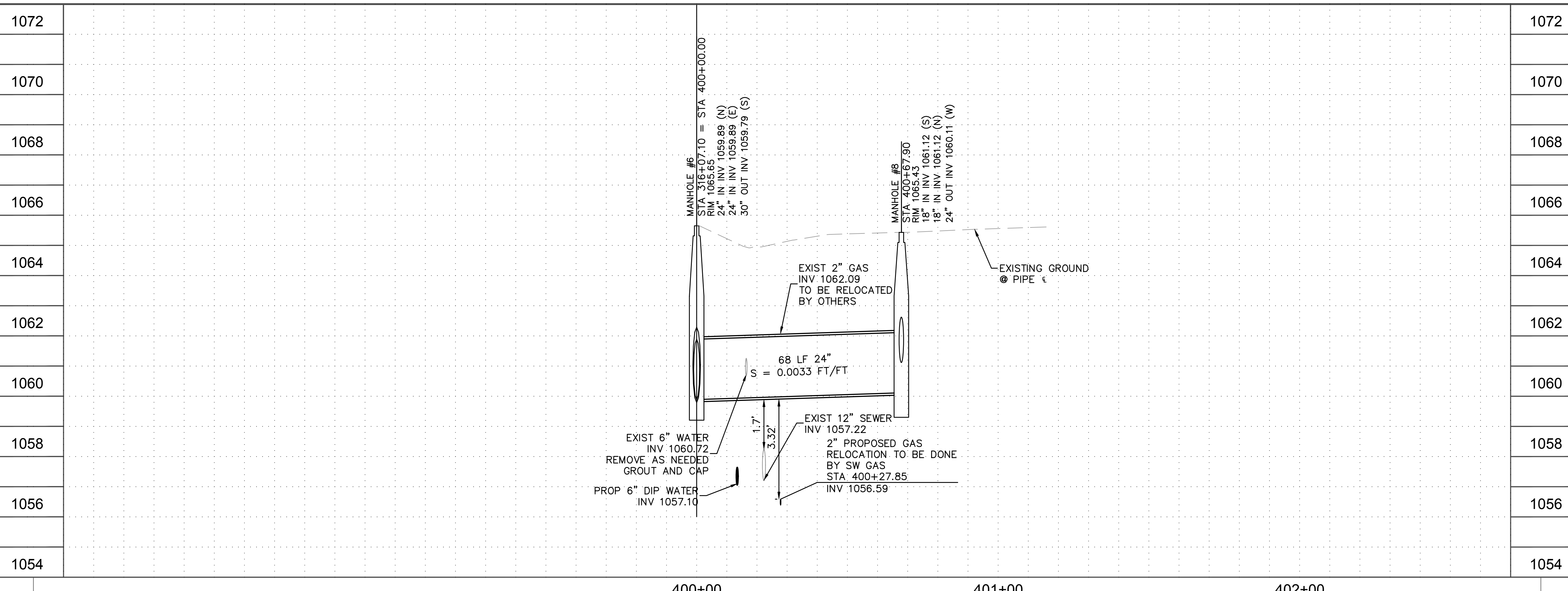
NO.	DESCRIPTION	QUANTITY
1	SAWCUT, REMOVE EXISTING AC PAVEMENT	98 SY
2	SAWCUT, REMOVE EXISTING SIDEWALK	249 SF
3	SAWCUT, REMOVE EXISTING CURB AND GUTTER	85 LF



NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK 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 YOUR CONTRACT WITH THE CITY OF PHOENIX."

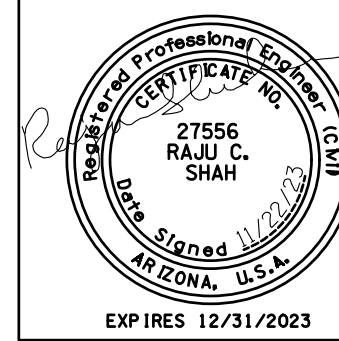
PLAN AND PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

**TAYLOR STREET AND
33RD AVENUE INTERSECTION
ST83140116**

DR: LA	DES: RS	CK: RS	SHEET NO: 34	TOTAL SHEETS: 43	AS BUILT
DATE: 12/01	DATE: 12/01	DATE: 12/01	SHEET NAME: PP05		

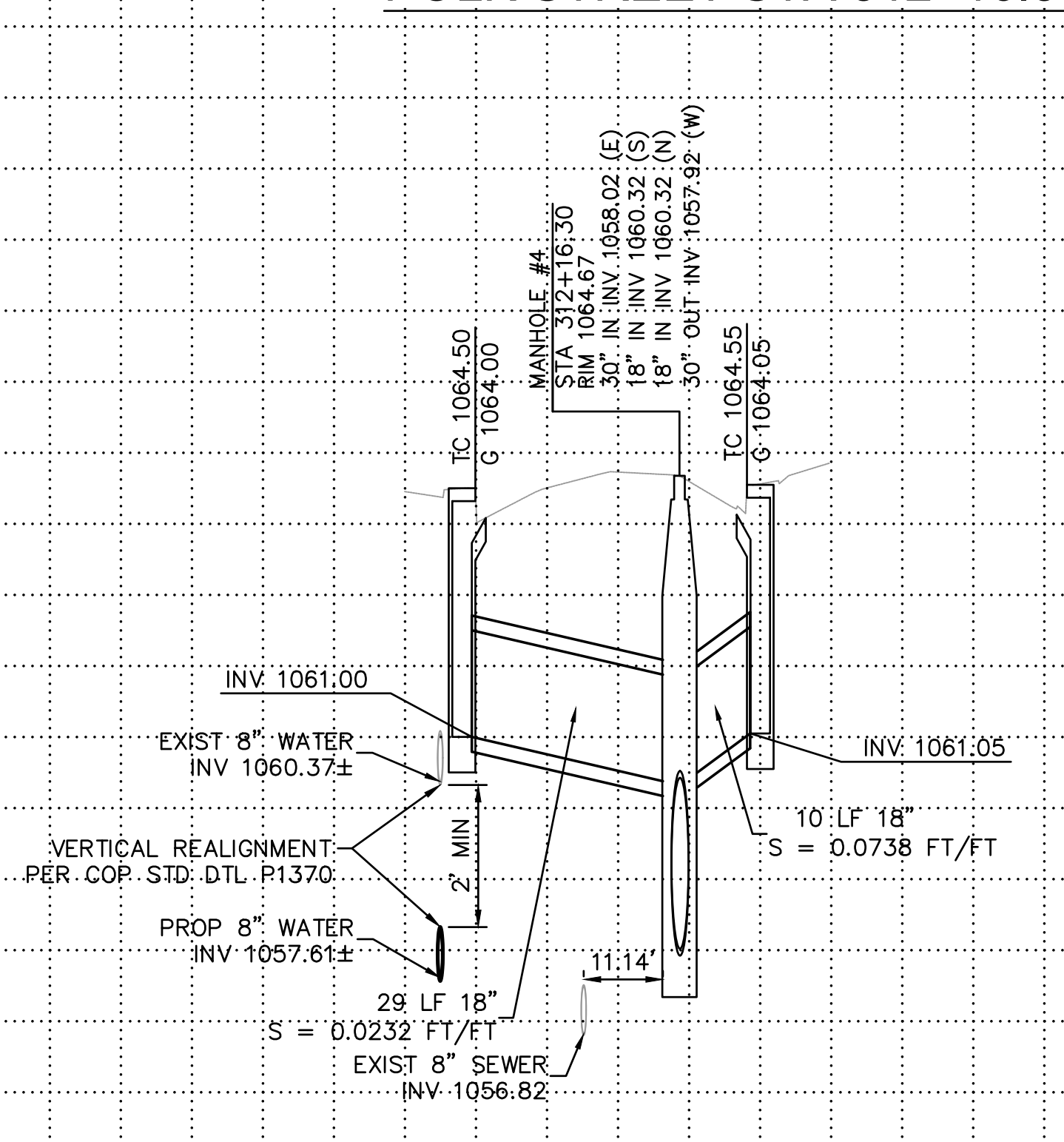
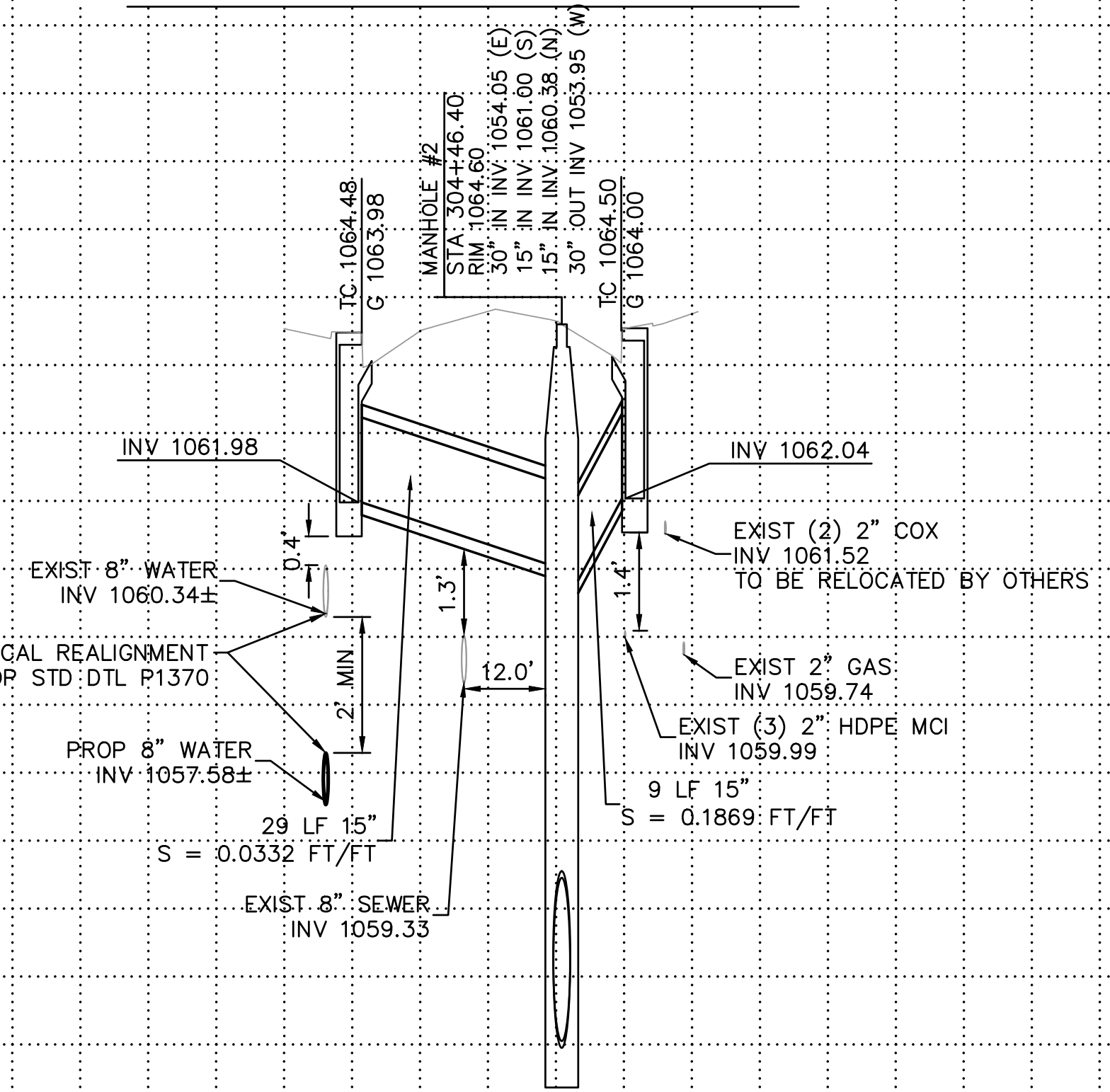
TAYLOR STREET AND
33RD AVENUE INTERSECTION
1072
PHOENIX -- MARICOPA CO.



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140116	35	43	
DATE			CONSULTING ENGINEER		
11/22			ARDURRA		
DESIGN: RS	DRAWN: LA	CHECKED: RS			

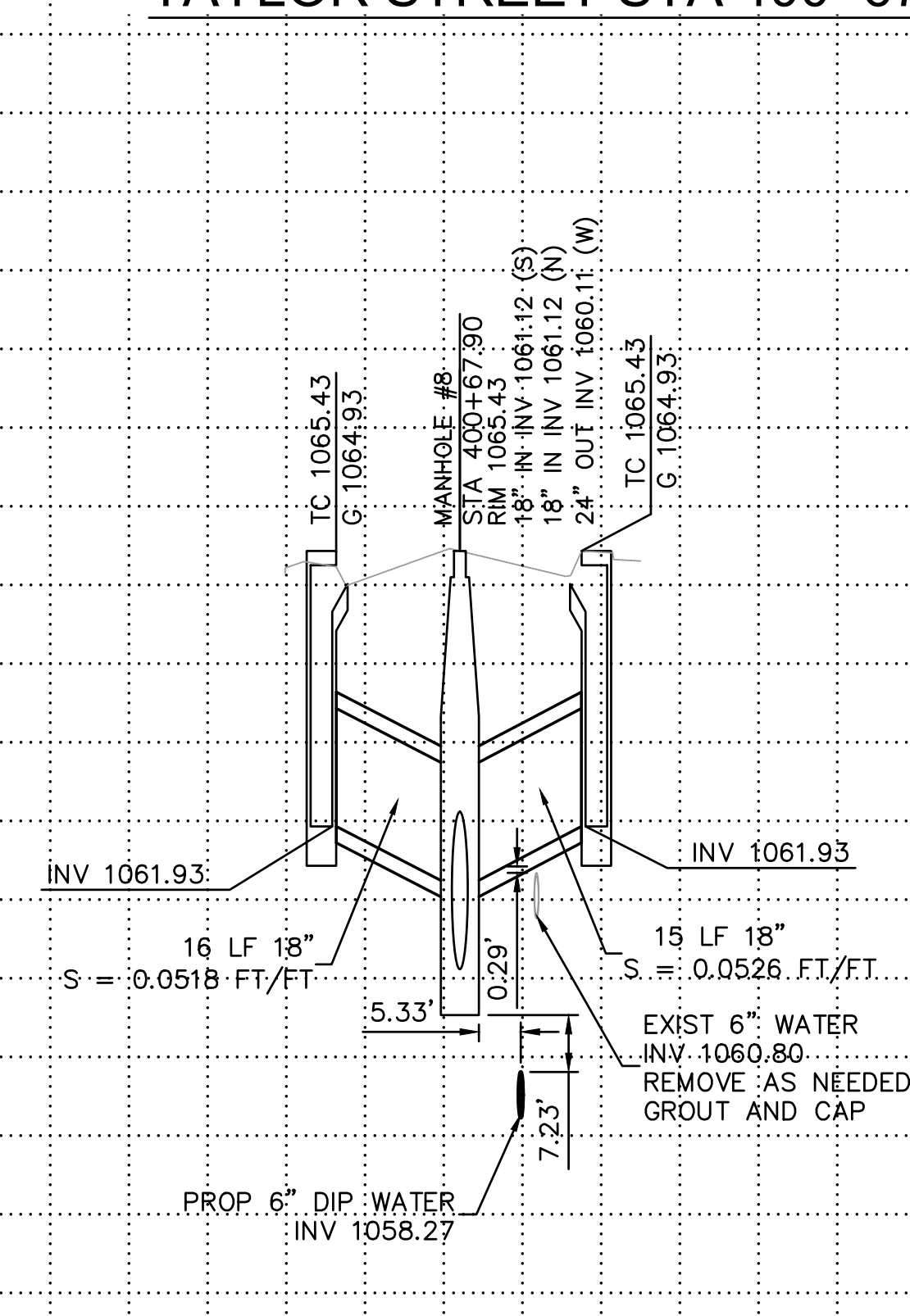
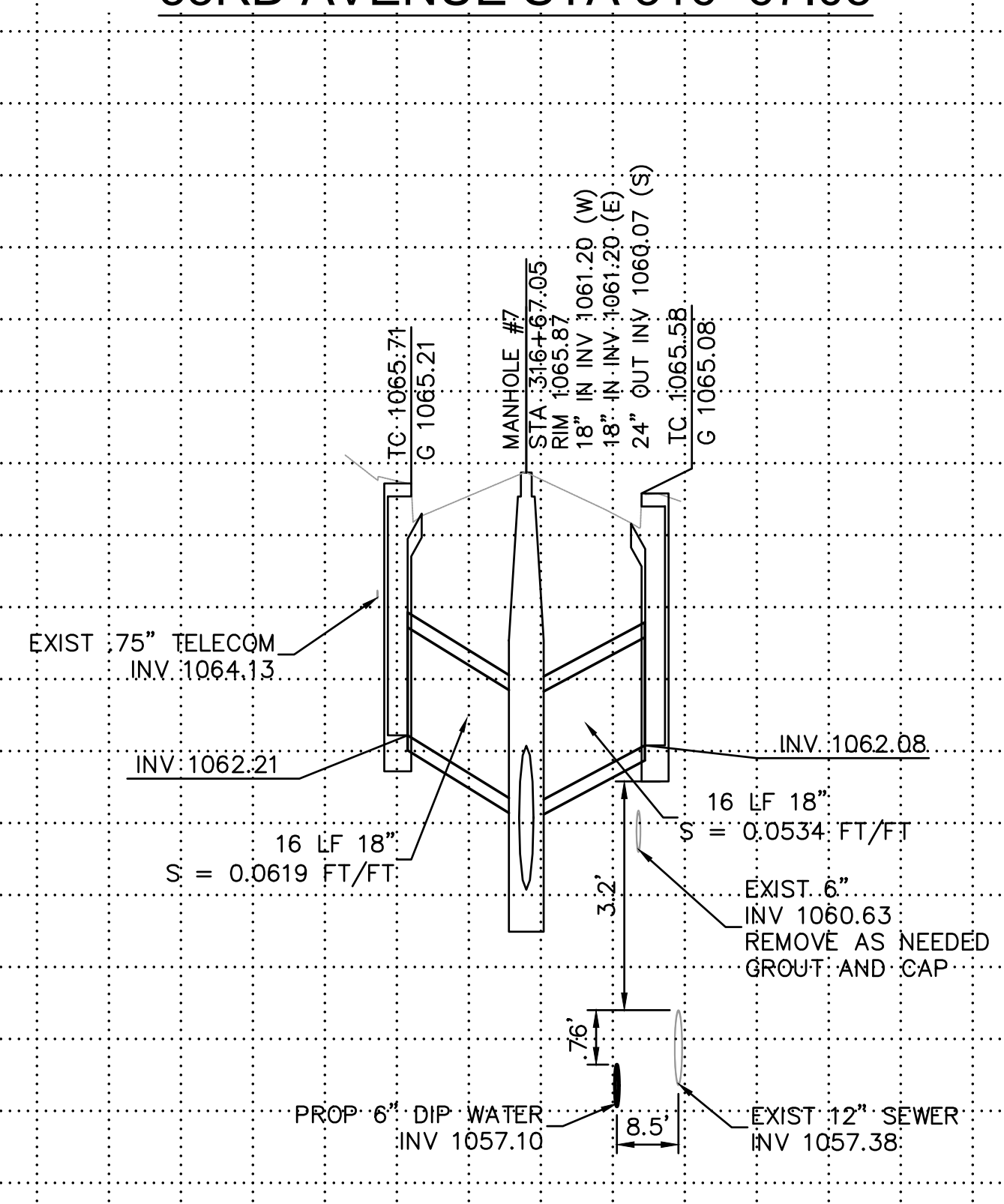
POLK STREET STA 304+46.40

POLK STREET STA 312+16.30



33RD AVENUE STA 316+67.05

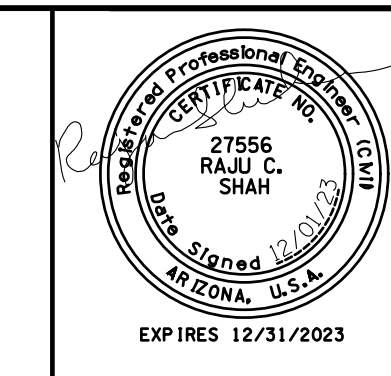
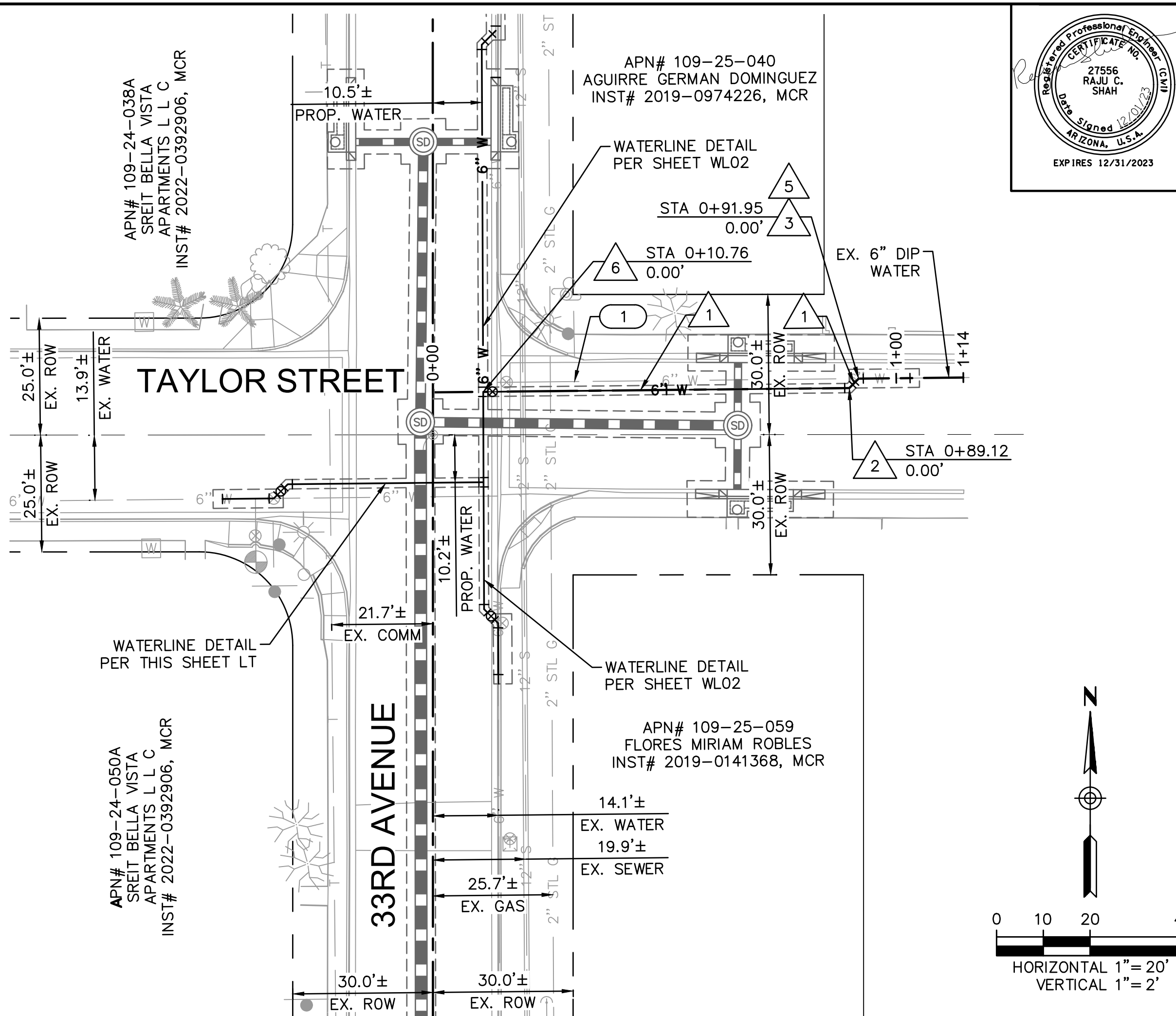
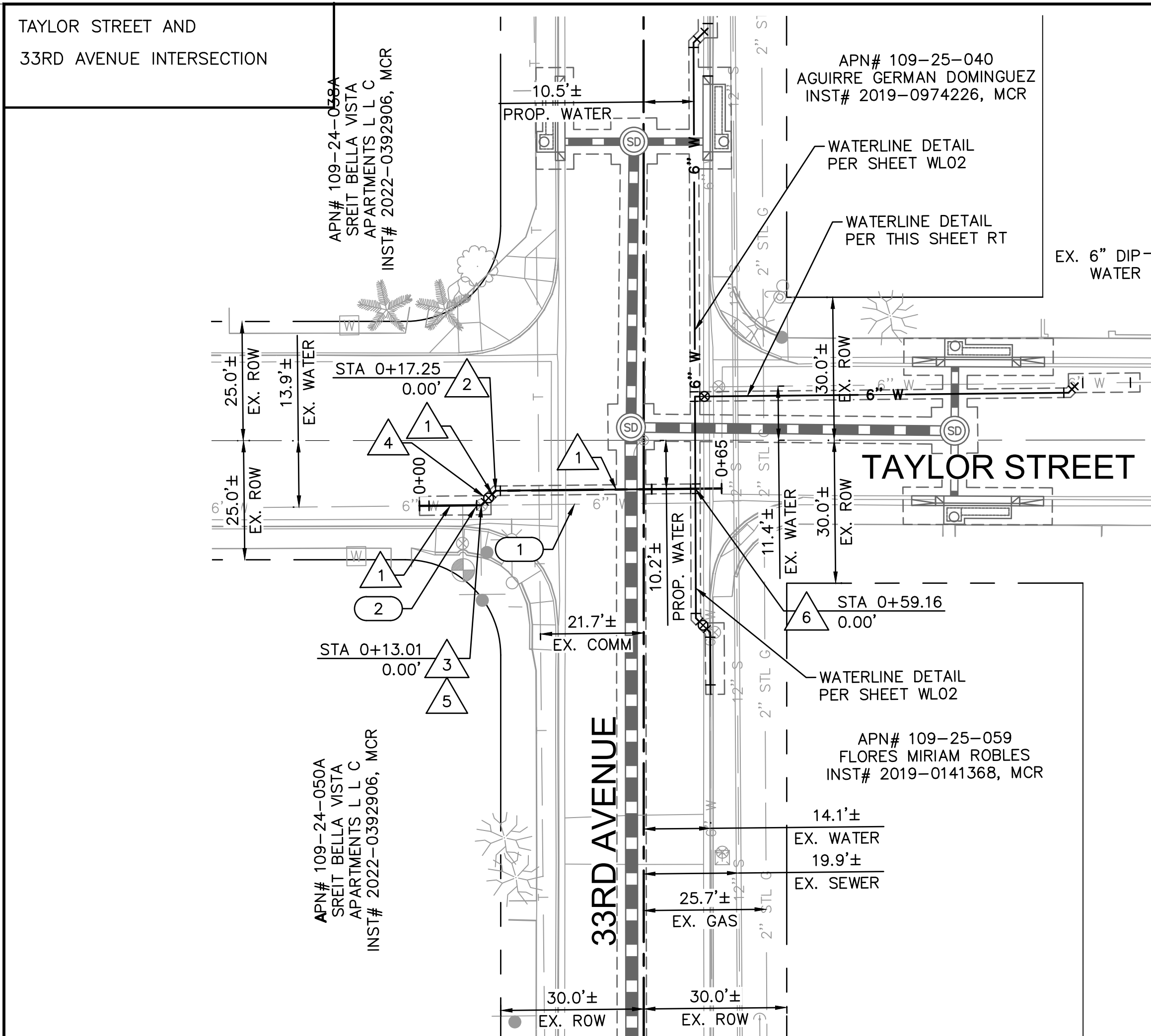
TAYLOR STREET STA 400+67.90



1060	PER THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.					
1058	CONNECTOR PIPE PROFILES					
1056	CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT TAYLOR STREET AND 33RD AVENUE INTERSECTION ST83140116					
	DR: LA	DES: RS	CK: RS	SHEET NO:	TOTAL SHEETS	
	DATE: 11/22	DATE: 11/22	DATE: 11/22	NO:	AS BUILT	
	SHEET NAME			CP01	35	43

SCALE: 1" = 20' HORIZONTAL
2" VERTICAL

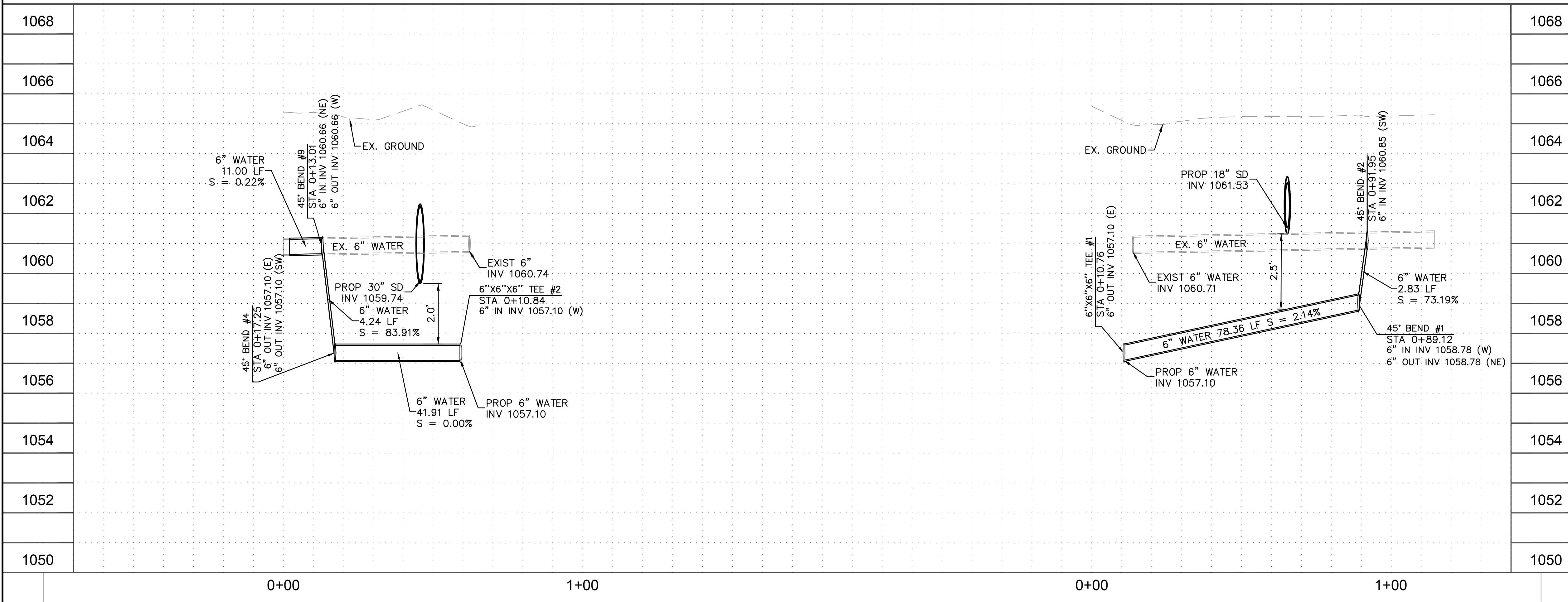
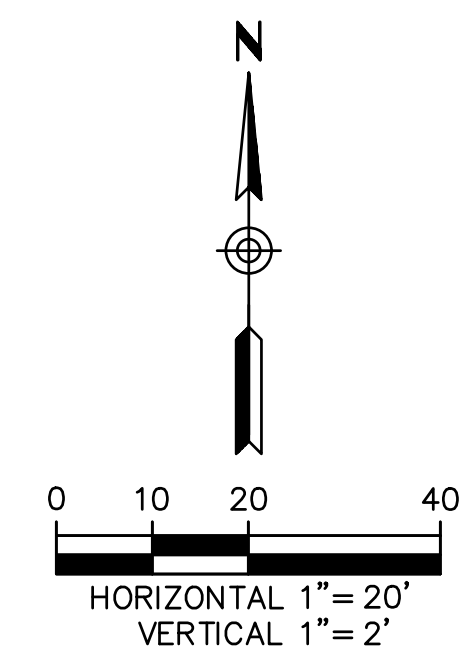
REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION
REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION
REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140116	36	43	
DATE: 12/01		ARDURRA CONSULTING ENGINEER			
DESIGN: RS	DRAWN: LA		CHECKED: RS		

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QUANTITY
1	6" DIP (CLASS 350) WATERLINE W/MEG-A-LUG RESTRAINED JOINTS (ALL DIP SHALL BE POLYETHYLENE WRAPPED PER COP SUPPLEMENT TO MAG SPECIFICATIONS SECTIONS 610.6.2, 610.6.3, AND 750.2)	139 LF
2	6" 45° BEND WITH RESTRAINED JOINTS PER MAG STD DTL 303-1 & 303-2	2 EA
3	CONNECT TO EXISTING 6" WATERLINE WITH A 45° BEND WITH RESTRAINED JOINTS PER MAG STD DTL 303-1 & 303-2	2 EA
4	INSTALL 6" SERVICE VALVE	1 EA
5	CUT AND PLUG EXISTING 6" DIP WATERLINE PER COP STD DTL P1343	2 EA
6	CONNECT TO 6" WATERLINE WITH 6"x6" TAPPING SLEEVE AND VALVE, BOX AND COVER PER MAG DTL 340	2 EA

REMOVALS & ADJUSTMENTS		
NO.	DESCRIPTION	QUANTITY
1	ABANDON EXISTING 6" WATERLINE IN PLACE, GROUT SOLID	123 LF
2	REMOVE EXISTING 6" SERVICE VALVE	1 EA



O: 602.263.1177
 1001 N. CENTRAL AVE
 SUITE 900
 PHOENIX, AZ 85004
www.ardurra.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."

PLAN AND PROFILE					
CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT					
TAYLOR STREET AND 33RD AVENUE INTERSECTION ST83140116					
DR: LA	DES: RS	CK: RS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 12/01	DATE: 12/01	DATE: 12/01	36	43	
SHEET NAME			WL01		

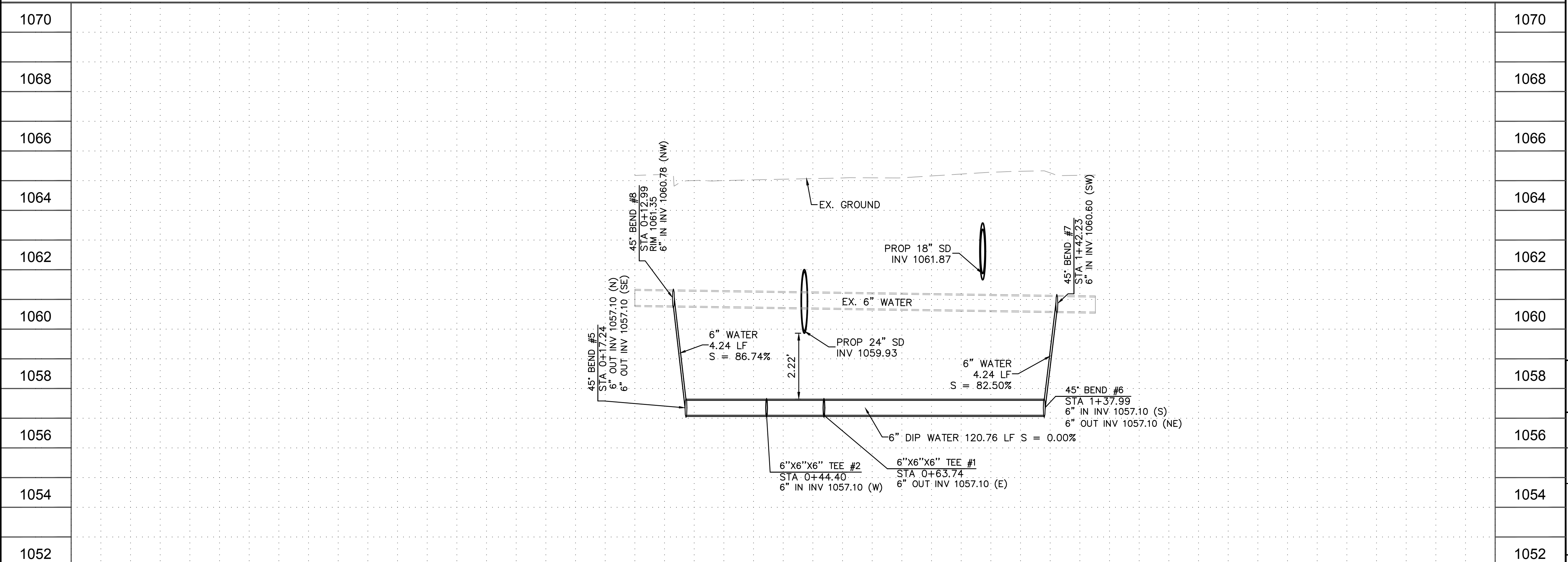
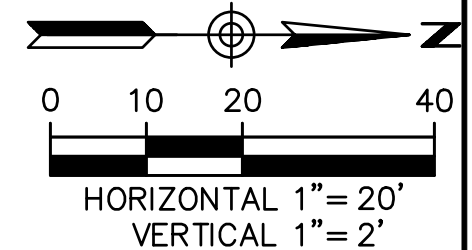
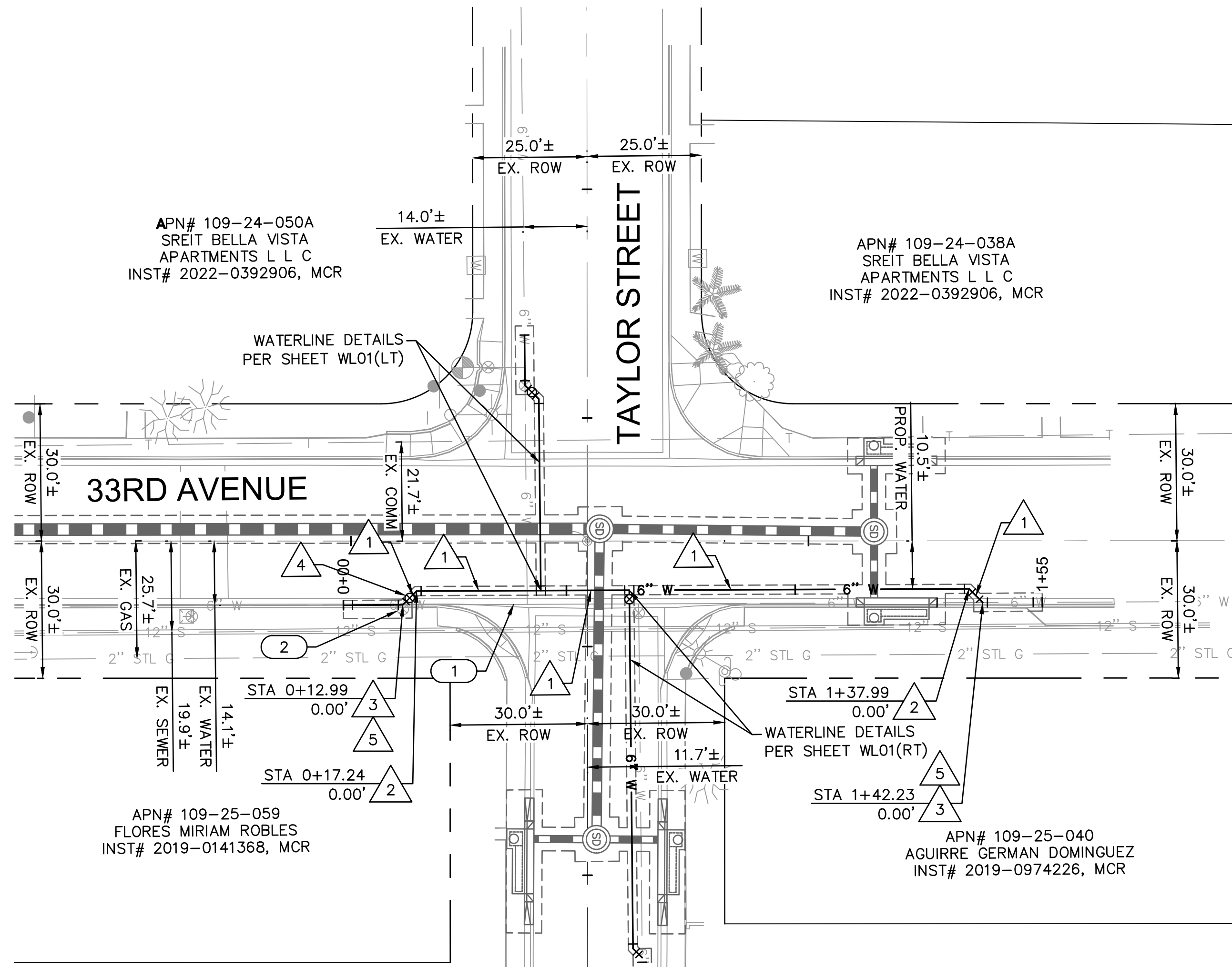
TAYLOR STREET AND
33RD AVENUE INTERSECTION

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



NO.	DESCRIPTION	REV BY	CHK BY	DATE

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST83140116	37	43	

12/01	ARDURRA
DATE	CONSULTING ENGINEER

DESIGN: RS	DRAWN: LA	CHECKED: RS
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CONSTRUCTION NOTES		
NO.	DESCRIPTION	QUANTITY
1	6" DIP (CLASS 350) WATERLINE W/MEG-A-LUG RESTRAINED JOINTS (ALL DIP SHALL BE POLYETHYLENE WRAPPED PER COP SUPPLEMENT TO MAG SPECIFICATIONS SECTIONS 610.6.2, 610.6.3, AND 750.2)	130 LF
2	6" 45° BEND WITH RESTRAINED JOINTS PER MAG STD DTL 303-1 & 303-2	2 EA
3	CONNECT TO EXISTING 6" WATERLINE WITH A 45° BEND	2 EA
4	INSTALL 6" SERVICE VALVE	1 EA
5	CUT AND PLUG EXISTING 6" DIP WATERLINE PER COP STD DTL P1343	2 EA

REMOVALS & ADJUSTMENTS		
NO.	DESCRIPTION	QUANTITY
1	ABANDON EXISTING 6" WATERLINE IN PLACE, GROUT SOLID	127 LF
2	REMOVE EXISTING 6" SERVICE VALVE	1 EA

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SUITE 900
PHOENIX, AZ 85004
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PLAN AND PROFILE
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
**TAYLOR STREET AND
33RD AVENUE INTERSECTION**
ST83140116

DR: LA	DES: RS	CK: RS	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 12/01	DATE: 12/01	DATE: 12/01	37	43	
SHEET NAME		WL02	37	43	

AMERICAN RESCUE PLAN ACT (ARPA)
PHOENIX STREET - MARICOPA CO
2021 LOCAL DRAINAGE MITIGATION PROGRAM

PROJECT NO	ST83140120	NO	38	TOTAL	43
STATE	ARIZ				



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Water Resources
Land Survey
Construction Management
602.335.8500
www.woodpatel.com

CITY OF PHOENIX

STREET TRANSPORTATION DEPARTMENT

DESIGN & CONSTRUCTION MANAGEMENT DIVISION

2021 ARPA LOCAL DRAINAGE MITIGATION PACKAGE 2

32ND ST & MONTEROSA ST DRAINAGE IMPROVEMENTS

ST83140120

MAYOR
KATE GALLEGO

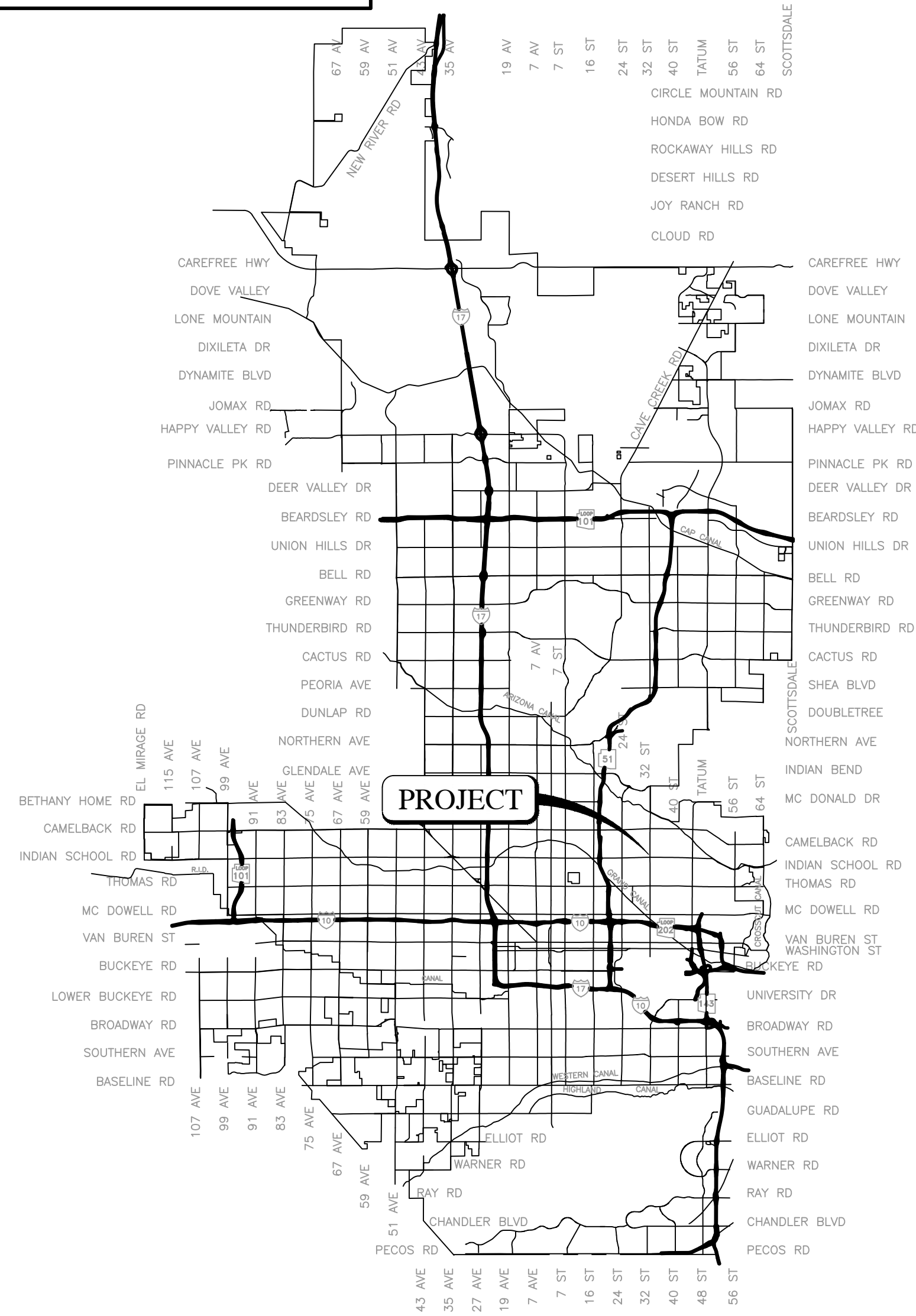
CITY COUNCIL
DISTRICT NO. 1 - ANN O'BRIEN
DISTRICT NO. 2 - JIM WARING
DISTRICT NO. 3 - DEBRA STARK
DISTRICT NO. 4 - LAURA PASTOR
DISTRICT NO. 5 - BETTY GUARDADO
DISTRICT NO. 6 - KEVIN ROBINSON
DISTRICT NO. 7 - YASSAMIN ANSARI
DISTRICT NO. 8 - KESHA HODGE WASHINGTON

CITY MANAGER
JEFF BARTON

CITY ENGINEER
ERIC J. FROBERG, PE

INDEX OF SHEETS

38	COVER SHEET
39	NOTES
40	LEGEND & ABBREVIATIONS
41	QUANTITIES
42	GEOMETRIC CONTROL
43	PIPE PLAN & PROFILE



 **VICINITY MAP**
NTS





2024

LENGTH OF PROJECT:
20 FEET

AREA OF DISTURBANCE:
320 SQUARE FEET

APPROVALS

 ERIC J. FROBERG, PE CITY ENGINEER	06/26/2024 DATE
 NAZAR NABATY, PE FLOODPLAIN ADMINISTRATOR	06/25/2024 DATE

ENGINEER & SURVEYOR

WOOD, PATEL & ASSOCIATES, INC.
2051 WEST NORTHERN AVE, SUITE 100
PHOENIX, ARIZONA 85021

PHONE: (602) 335-8500
FAX: (602) 335-8523
CONTACT: JEFF MINCH, PE, CFM
jminch@woodpatel.com

BASIS OF BEARING

NATIONAL GEODETIC SURVEY (NGS) GEODETIC NORTH BASED ON:
MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION (MCDOT) GEODETIC DENSIFICATION CADASTRAL SURVEY (GDACS) WEBSITE www.mcdot.maricopa.gov, UNDER THE SURVEY INFORMATION LINK ON DECEMBER 19, 2020

PROJECTION: ARIZONA CENTRAL ZONE, NAD 83, (EPOCH 2010)
DATUM: GRS-80
UNITS: INTERNATIONAL FEET
GEOID MODEL: GEOID 2018

CONTROL POINT: N474
PID: DV1248
LATITUDE: 33° 31' 24.55824" N
LONGITUDE: 112° 02' 10.23752" W
ELLIPSOID HEIGHT: 341.564 (METERS)
DESCRIPTION: 3-INCH BRASS CAP IN ROCK OUTCROP STAMPED N474 1981

MODIFIED TO GROUND AT (GRID)
N: 907657.161 E: 668011.781, USING SCALE FACTOR OF 1.0001502544

PUBLIC UTILITIES

WATER	CITY OF PHOENIX
SEWER	CITY OF PHOENIX
ELECTRIC	SRP & APS
TELEPHONE	CENTURYLINK
GAS	SOUTHWEST GAS
CABLE TV	COX COMMUNICATIONS
WASTE DISPOSAL	CITY OF PHOENIX

BENCHMARK

3-INCH BRASS CAP IN HAND HOLE LOCATED AT THE INTERSECTION OF 28TH STREET AND CAMPBELL AVENUE, HAVING AN ELEVATION OF 1179.822 CITY OF PHOENIX NGVD 29 DATUM

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

COVER
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

2021 LOCAL DRAINAGE MITIGATION PROGRAM
32ND STREET & MONTEROSA STREET

H	
KIVA	
AMND	
CPHG	
QS	17-34

DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO.	TOTAL SHEETS:	AS BUILT
DATE: 4/24	DATE: 4/24	DATE: 4/24		38	43
SCALE:					

REVISION BY CITY OF PHOENIX

DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

DESCRIPTION	REV BY	CKD BY	DATE

REVISION BY CITY OF PHOENIX

DESCRIPTION	REV BY	CKD BY	DATE

Z:\2022\225395\DWG\imp\6395-03-G1-01-CV.dwg 4/15/2024 3:00 PM

AMERICAN RESCUE PLAN ACT (ARPA)
 PHOENIX STREET - MARICOPA CO
 2021 LOCAL DRAINAGE MITIGATION PROGRAM

CITY OF PHOENIX GRADING AND DRAINAGE NOTES

- A GRADING PERMIT IS REQUIRED UNDER CHAPTER 32A OF THE PHOENIX CITY CODE.
- WHEN HAUL PERMITS ARE REQUIRED, THEY MUST BE OBTAINED PRIOR TO OR CONCURRENTLY WITH THE GRADING AND DRAINAGE PERMIT.
- EXCAVATING CONTRACTOR MUST GIVE LOCATION FOR WASTING EXCESS EXCAVATION AND A LETTER FROM OWNER GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ON-SITE CONSTRUCTION. IF EXCESS EXCAVATION EXCEEDS 100 CUBIC YARDS, THE DISPOSAL SITE WILL ALSO REQUIRE A GRADING AND DRAINAGE PERMIT.
- PLANNING AND DEVELOPMENT DEPARTMENT FIELD INSPECTION GROUP SHALL BE NOTIFIED 48 HOURS BEFORE ANY ON-SITE AND/OR OFF-SITE CONSTRUCTION BEGINS, TELEPHONE (602) 262-7811.
- STAKING PAD ELEVATIONS IS THE RESPONSIBILITY OF THE OWNER AND HIS ENGINEER. THE OWNER'S ENGINEER SHALL SUBMIT THREE SEALED COPIES OF THIS GRADING AND DRAINAGE PLAN DESIGNATED AS "RECORD DRAWING" (BEARING AN ORIGINAL SIGNATURE) PRIOR TO THE REQUEST FOR FINAL INSPECTION.
- PAD CERTIFICATIONS WILL BE REQUIRED ON ALL LOTS WITHIN THE SUBDIVISION AND SUBMITTED TO THE CIVIL/SITE INSPECTOR PRIOR TO ANY CONCRETE CONSTRUCTED IN THE RIGHT-OF-WAY. PAD CERTIFICATION CAN BE SUBMITTED TO THE CIVIL/SITE INSPECTOR BY EITHER SUBMITTING ONE APPROVED BLACK-LINE AS-BUILT GRADING AND DRAINAGE PLAN OR IN LETTER FORMAT SHOWING THE DESIGN AND AS-BUILT PAD ELEVATIONS AS SHOWN ON THE APPROVED GRADING AND DRAINAGE PLAN. IT IS REQUIRED THAT THE AS-BUILT PLAN AND LETTER BE SEALED BY A CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA.
- A SEPARATE PERMIT IS NECESSARY FOR ANY OFFSITE CONSTRUCTION.
- AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- GRADING AND DRAINAGE PLAN APPROVAL INCLUDES THE CONSTRUCTION OF ALL SURFACE IMPROVEMENTS SHOWN ON THE APPROVED PLAN, INCLUDING, BUT NOT LIMITED TO, RETENTION AREAS, SEDIMENTATION BASINS, AND/OR OTHER DRAINAGE FACILITIES, DRAINAGE PATTERNS, WALLS, CURBS, ASPHALT PAVEMENT, AND BUILDING FLOOR ELEVATION.
- GRADES SHOWN IN RETENTION BASINS ARE DESIGN FINISHED GRADES. SHOULD THE CONTRACTOR OR ANY SUB-CONTRACTOR PLAN TO PLACE SPOIL DIRT FROM FOOTINGS, UTILITY TRENCHES, LANDSCAPING, SWIMMING POOLS, ETC. IN THE BASINS, THE BASINS SHOULD BE SUFFICIENTLY OVER-EXCAVATED DURING THE ROUGH GRADING OPERATION TO ALLOW FOR THE PLACEMENT OF THE FILL OR LANDSCAPING MATERIALS.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING DEPTHS OF ALL THE EXISTING UTILITY LINES WITHIN PROPOSED RETENTION BASIN AREAS. IF THE BASIN CANNOT BE CONSTRUCTED PER PLAN BECAUSE OF CONFLICTS, THE CONTRACTOR SHOULD DISCUSS MODIFICATION OF BASIN CONFIGURATION WITH THE CITY INSPECTOR TO DETERMINE IF A PLAN REVISION OR A FIELD CHANGE IS REQUIRED.
- ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTOR DITCHES, PIPES, PROTECTIVE BERMS, BARRIER WALLS, CONCRETE CHANNELS, OR OTHER MEASURES DESIGNED TO PROTECT ADJACENT BUILDINGS OR PROPERTY FROM STORM RUNOFF MUST BE COMPLETED PRIOR TO BUILDING CONSTRUCTION.
- PER SECTION 6.8.7 OF THE CITY OF PHOENIX STORM WATER POLICIES AND STANDARDS, SIDE SLOPES OF STORM WATER STORAGE FACILITIES SHALL BE NO STEEPER THAN 5:1 FOR IRRIGATED GRASS AREAS AND 3:1 FOR LANDSCAPE AREAS. SLOPE STABILIZATION MEASURES ARE REQUIRED FOR ALL SLOPES GREATER THAN 5:1. THE SLOPE STABILIZATION MEASURES MUST BE READILY MAINTAINABLE USING COMMON MAINTENANCE EQUIPMENT AND BE DESIGNED WITH CONSIDERATION TO AESTHETICS. THE SLOPE STABILIZATION MEASURES SHALL BE CONSISTENT WITH COMMONLY USED ENGINEERING PRACTICES. UN-STABILIZED DECOMPOSED GRANITE IS NOT ALLOWED ON SLOPES GREATER THAN 5:1.
- ALL RETAINING WALLS ARE TO BE REVIEWED, PERMITTED, AND INSPECTED BY THE BUILDING SAFETY BRANCH OF THE PLANNING AND DEVELOPMENT DEPARTMENT. ALL RETAINING WALLS ARE TO BE IN ACCORDANCE WITH SECTION 703 OF THE ZONING ORDINANCE AND SECTION 32-32 OF THE SUBDIVISION ORDINANCE FOR SPECIFIC WALL HEIGHT REQUIREMENTS. USE PERMIT IS REQUIRED FOR ALL OVER-HEIGHT RETAINING WALLS.
- ALL RAMPS MUST MEET 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS; 2% MAX CROSS SLOPES AND 12:1 MAX LONGITUDINAL SLOPES.
- CERTIFICATE OF OCCUPANCY (C OF O) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS DENIED UNTIL ALL GRADING AND DRAINAGE IMPROVEMENTS ARE COMPLETED.
- EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
- THE ENGINEERING DESIGN ON THESE PLANS IS ONLY APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY THE CITY. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES.
- THE CITY OF PHOENIX POLICE DEPARTMENT ENFORCES LAWS REGULATING THE OPERATION OF COMMERCIAL VEHICLES. THIS INCLUDES ENFORCEMENT OF FEDERAL, STATE, COUNTY AND LOCAL LAWS AND ORDINANCES. QUESTIONS REGARDING COMMERCIAL VEHICLE ENFORCEMENT MAY BE DIRECTED TO THE COMMERCIAL VEHICLE ENFORCEMENT SUPERVISOR AT (602) 495-7813 (TRAFFIC BUREAU SOUTH) OR (602) 495-6784 (TRAFFIC BUREAU NORTH)
- PLAN APPROVAL IS VALID FOR 12 MONTHS. 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 OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR REGISTERING THE DRY WELLS SHOWN ON THE GRADING AND DRAINAGE PLAN WITH THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (A.D.E.Q.). FOR INFORMATION ABOUT SPECIFIC REQUIREMENTS, CONTACT THE WATER PERMITS UNIT AT (602) 771-4686.



FINRA REGION	STATE	PROJECT NO	NO	TOTAL
9	ARIZ	ST83140120	39	43

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 Land Survey
 Construction Management
 602.335.8500
 www.woodpatel.com

CITY OF PHOENIX GRADING AND DRAINAGE NOTES

- DRY WELLS MUST BE DRILLED A MINIMUM OF 10 FEET INTO PERMEABLE POROUS STRATA OR PERCOLATION TESTS WILL BE REQUIRED. THE GRADING AND DRAINAGE INSPECTOR MUST BE PRESENT BEFORE BACKFILL OR WELL PIPES ARE PLACED WITHIN ANY DRY WELLS.
- THE OWNER/DEVELOPER IS RESPONSIBLE FOR INSTALLING DRYWELL(S) SHOULD THE RETENTION BASINS FAIL TO DRAIN WITHIN 36 HOURS.

CITY OF PHOENIX OFFSITE NOTES

- CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST APPLICABLE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATION AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATION AND DETAILS.
- COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601.
- OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- THE ACTUAL POINT OF PAVEMENT MATCHING AND/OR TERMINATION SHALL BE DETERMINED IN THE FIELD BY THE CITY OF PHOENIX, PLANNING & DEVELOPMENT DEPARTMENT FIELD INSPECTOR.
- PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. SECTION 336 AND C.O.P. DETAIL 9-1200 - TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER C.O.P. DETAIL P1230.
- TREES AND SHRUBBERY IN THE RIGHT OF WAY THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE CITY LANDSCAPE ARCHITECT OR HIS ASSIGNEES. THE PERMITTEE SHALL BE RESPONSIBLE FOR OBTAINING AUTHORIZATION TO REMOVE AND/OR RELOCATE SAID TREES OR SHRUBBERY BY CALLING THE PARKS AND RECREATION DEPARTMENT AT (602) 262-6501 AND TRANSPORTATION DEPARTMENT AT (602) 534-9898.
- PER THE CITY OF PHOENIX ORDINANCE G-6308, ALL STREET PAVEMENT CUTS WILL REQUIRE ASPHALT RESURFACING TREATMENTS BASED ON THE AGE OF THE PAVEMENT. FOR STREETS LESS THAN TWO YEARS OLD, THE PERMITTEE MUST APPLY AN ASPHALT MILL AND OVERLAY PAVEMENT TREATMENT. FOR STREETS GREATER THAN TWO YEARS OLD, THE PERMITTEE MUST APPLY A SLURRY SEAL AND/OR MICROSEAL TREATMENT.

CITY OF PHOENIX PAVING NOTES

- ALL NEW OR RELOCATED UTILITIES SHALL BE PLACED UNDERGROUND.
- AN APPROVED PAVING PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- ALL EXISTING CATCH BASINS MUST BE RE-LOCATED WHEN THEY ARE SHOWN IN A NEWLY PROPOSED DRIVEWAY.
- CONSTRUCTION OF SURFACE IMPROVEMENTS SHALL NOT BEGIN UNTIL CONFLICTING UNDERGROUND UTILITY CONSTRUCTION IS COMPLETED AND SERVICE CONNECTIONS TO ALL PLATTED LOTS HAVE BEEN ADEQUATELY EXTENDED PAST THE RIGHT-OF- WAY.
- THE PERMIT HOLDER SHALL ARRANGE FOR THE RELOCATION AND RELOCATION COSTS OF ALL UTILITIES, INCLUDING ANY STREETLIGHTS, AND SUBMIT A UTILITY RELOCATION SCHEDULE PRIOR TO THE ISSUANCE OF A CONSTRUCTION PERMIT. RELOCATION OF WATER METERS SHALL BE DONE BY THE WATER SERVICES DEPARTMENT AFTER PAYMENT OF PREVAILING FEES. RELOCATION OF CITY FIRE HYDRANTS REQUIRE A SEPARATE PLAN REVIEW AND PERMIT AT THE DEVELOPER'S EXPENSE.
- ALL FRAMES, COVERS, VALVE BOXES, AND MANHOLE COVERS SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO COMPLETION OF PAVING OR RELATED CONSTRUCTION. ADJUSTMENT OF EXISTING "TYPE A" OR "TYPE B" WATERLINE VALVE BOXES IN THE PARKWAY SHALL BE CONSIDERED INCIDENTAL TO PARKWAY GRADING. EXISTING "TYPE B" WATERLINE VALVE BOXES SHALL BE REPLACED WITH "TYPE A" BOXES PER COP STANDARD DETAIL P1391.
- GRADING BETWEEN BACK OF CURB AND PROPERTY LINE SHALL BE LIMITED TO 4:1 SLOPE.
- THE PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR MUST CONTACT STREET TRANSPORTATION DEPARTMENT, TRAFFIC SERVICES DIVISION AT 602-495-0205 VOICE OR 7-1-1 TTY TWO (2) WEEKS PRIOR TO COMPLETION OF PAVING WORK FOR SIGNING & STRIPING.
- AUTHORIZATION TO RESTRICT OR CLOSE THE RIGHT-OF-WAY CAN ONLY BE OBTAINED THROUGH THE TRAFFIC SERVICES DIVISION, RIGHT- OF- WAY MANAGEMENT (ROWM) SECTION. TRACS PERMITS MUST BE OBTAINED FOR EACH INDIVIDUAL PROJECT THROUGH ROWM. TRACS PERMITS ARE APPROVED BASED ON THE PHASING OF THE PROJECT AND THE SCOPE OF WORK. PERMISSION TO RESTRICT CITY STREETS, SIDEWALKS AND ALLEYS (STREET CLOSURE PERMITS) SHALL BE REQUESTED AS SPECIFIED IN CHAPTER 2 OF THE TRAFFIC BARRICADE MANUAL, CURRENT VERSION AND ADDENDUMS THEREOF - [HTTPS://WWW.PHOENIX.GOV/STREETS/TRAFFIC-MANAGEMENT](https://www.phoenix.gov/streets/traffic-management)
- ASPHALT RESTORATION IS REQUIRED FOR ANY STREET CUT. REFER TO STREET PAVEMENT CUT POLICY (TRT 00164 AND ORDINANCE G-6308).

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

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

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

CITY OF PHOENIX NOTES

- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CONTRACT SPECIAL PROVISIONS AND DETAILS, 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.
- ALL STORM SEWER MANHOLES ARE TO BE CONSTRUCTED WITHOUT STEPS.
- 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.
- 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 P-1576.
- 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 M.A.G. DETAIL 505. ANY ANGLE BENDS GREATER THAN 22-1/2' SHALL BE PREFABRICATED.
- CONNECTOR PIPES SHALL CONNECT TO CATCH BASIN WALLS AT AN ANGLE NOT TO EXCEED 22-1/2' FROM PERPENDICULAR.
- THE CONTRACTOR SHALL CONFIRM EXISTING PIPE MATERIAL AT DESIGNATED CONNECTION POINTS PRIOR TO ORDERING ANY FITTINGS.
- 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.
- 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 ARIZONA 811 SYSTEM.
- VERTICAL CONTROL IS BASED ON PHOENIX DATUM NGVD-29
- UNLESS OTHERWISE NOTED, STATIONS SHOWN ON PIPE PROFILES ARE ALONG CENTERLINE OF PIPE.
- UNLESS OTHERWISE NOTED, PIPE SHALL BE BEDDED IN ACCORDANCE WITH CITY OF PHOENIX DETAIL P1200.
- CATCH BASINS ARE STATIONED PERPENDICULAR TO THE CENTERLINE OF THE STREET AT THE CENTERLINE OF THE MAINTENANCE BASIN.
- 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.
- 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.
- 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.
- ALL EXISTING DRIVEWAYS AND ALL EXISTING ALLEYS SHALL BE GRADED TO MATCH THE NEW WORK IN ACCORDANCE WITH STD. DETAIL P-1164, UNLESS OTHERWISE SPECIFIED. EXISTING SURFACING SHALL BE REMOVED AND REPLACED AS NECESSARY.
- UNLESS OTHERWISE PROVIDED ON THE PLANS, EXISTING A.C. OR P.C.C. DRIVEWAYS AND SIDEWALKS WHICH FALL WITHIN OR ABUT THE RIGHT OF WAY SHALL BE CONNECTED TO THE NEW WORK AS FOLLOWS:
- THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING A.C. DRIVEWAYS SHALL BE FILLED WITH A MINIMUM OF 3" A.C.S.C. ON 100% COMPACTED NATIVE SOIL. WHERE EXISTING PAVEMENT AND BASE THICKNESS EXCEED THE MINIMUMS, MATCH THE EXISTING.
- THE SPACE BETWEEN THE BACK OF NEW SIDEWALKS AND EXISTING PRIVATE SIDEWALKS, AND THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING P.C.C. DRIVEWAYS SHALL BE FILLED WITH P.C.C. THE THICKNESS AND CLASS SHALL MATCH THAT OF THE NEW SIDEWALK OR DRIVEWAY ENTRANCE.
- UNLESS OTHERWISE PROVIDED ON THE PLANS, THE SPACE BETWEEN THE BACK OF THE NEW SIDEWALKS, AND EXISTING A.C. PARKING LOTS, WHICH FALL WITHIN OR ABUT THE R/W SHALL BE FILLED WITH 3" A.C.S.C. ON 100% COMPACTED NATIVE SOIL.
- EXISTING IRRIGATION BERMS DISTURBED BY NEW CONSTRUCTION SHALL BE RECONSTRUCTED AS SHOWN ON PLANS.
- M.A.G. ALLEY ENTRANCE DETAILS 260, 261, 262 AND 263, WHICH ARE INDICATED TO BE MODIFIED ON THESE PLANS SHALL BE CONSTRUCTED ACCORDING TO THE DETAIL NUMBER EXCEPT THAT THE SLAB SHALL BE 9" THICK. DRIVEWAYS DESIGNATED ON THE PLANS AS M.A.G. DETAILS 250 AND 251 SHALL BE RESIDENTIAL DRIVEWAYS 5" THICK. ALL OTHER DRIVEWAYS SHALL BE CITY OF PHOENIX DETAILS P1255.
- CATCH BASIN ACCESS FRAME AND COVERS SHALL BE CONSTRUCTED PER C.O.P. DETAIL P1561.



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

NOTES

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

2021 LOCAL DRAINAGE
MITIGATION PROGRAM
32ND STREET & MONTEROSA STREET

DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 4/24	DATE: 4/24	DATE: 4/24		39	43

SCALE:

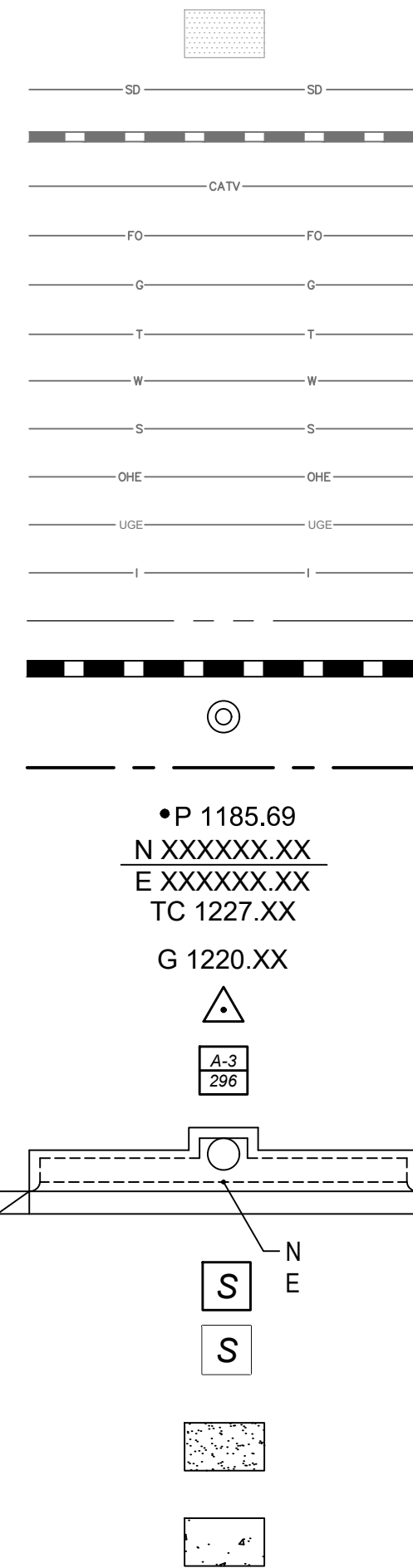
AMERICAN RESCUE PLAN ACT (ARPA)
 PHOENIX STREET - MARICOPA CO
 2021 LOCAL DRAINAGE MITIGATION PROGRAM



PROJECT NO	NO	TOTAL
ST83140120	40	43

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 Water Resources
 Land Survey
 Construction Management
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LEGEND



- EXISTING CONCRETE
- EXISTING STORM DRAIN
- EXISTING STORM DRAIN (>12")
- EXISTING CABLE TV LINE
- EXISTING FIBER OPTIC LINE
- EXISTING GAS LINE
- EXISTING TELEPHONE LINE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING UNDERGROUND ELECTRIC
- EXISTING IRRIGATION LINE
- APPROX PROPERTY LINE
- PROPOSED STORM DRAIN
- PROPOSED STORM DRAIN MANHOLE
- MONUMENT LINE
- PROPOSED PAVEMENT ELEVATION
- PROPOSED NORTHING AND EASTING
- PROPOSED TOP OF CURB ELEVATION
- PROPOSED GUTTER ELEVATION
- PROJECT BENCHMARK
- BACKFILL TYPE & SQ YD PVMT REPLACEMENT
- COP DETAIL P-1200 AND SPECIAL PROVISIONS
- NEW CATCH BASIN CURB & GUTTER INLET
- COORDINATES TO CENTERLINE OF MAINTENANCE BASIN
- AT BACK OF CURB
- SAWCUT 2' MIN
- SAWCUT
- PROPOSED PORTLAND CEMENT CONCRETE PAVEMENT
- PROPOSED GRAVEL MULCH

ABBREVIATIONS

- AC ASPHALT CONCRETE
- APPROX APPROXIMATELY
- AVE AVENUE
- B/C BACK OF CURB
- BCF BRASS CAP FLUSH
- BCH BRASS CAP HANDHOLE
- CCP CYLINDRICAL CONCRETE PIPE
- CIP CAST-IN-PLACE
- CL CENTER LINE
- CONC CONCRETE
- COP CITY OF PHOENIX
- CST CONSTRUCTION
- CATV CABLE TV
- DIP DUCTILE IRON PIPE
- E/P EDGE OF PAVEMENT
- ELEV ELEVATION
- EST ESTIMATED
- EX EXISTING
- FO FIBER OPTIC
- FT FEET / FOOT
- G GUTTER
- GB GRADE BREAK
- HORZ HORIZONTAL
- IN INCH
- LF LINEAR FEET
- MAG MARICOPA ASSOCIATION OF GOVERNMENTS
- ML MONUMENT LINE
- NTS NOT TO SCALE
- PH# POTHOLE NUMBER
- PIP PROTECT IN PLACE
- PL PLACE
- PR PROPOSED
- RCBC REINFORCED CONCRETE BOX CULVERT
- RCP REINFORCED CONCRETE PIPE
- REL RELOCATE
- RD ROAD
- RGRCP CL III RUBBER GASKET REINFORCED CONCRETE PIPE, CLASS III
- RGRCP CL IV RUBBER GASKET REINFORCED CONCRETE PIPE, CLASS IV
- RJ RESTRAINED JOINT
- ROW RIGHT OF WAY
- S SEWER
- S/W SIDEWALK
- SD STORM DRAIN
- SS SANITARY SEWER
- ST STREET
- STL STEEL
- T TELECOMMUNICATIONS
- T-ABAND TELECOMMUNICATIONS - ABANDONED
- T-CABLE TELECOMMUNICATIONS - CABLE
- T-DUCT TELECOMMUNICATIONS - DUCT
- TC TOP OF CURB
- TYP TYPICAL
- VERT VERTICAL
- VG VALLEY GUTTER
- W or WA WATER
- WI WITH

ENGINEER'S NOTES

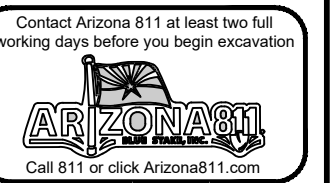
11. CONTRACTOR TO VERIFY AND COORDINATE ALL DIMENSIONS AND SITE LAYOUT WITH FINAL SITE PLAN AND FINAL BUILDING DIMENSIONS BEFORE STARTING WORK. REPORT DISCREPANCIES TO OWNER'S AGENT.
12. COORDINATION BETWEEN ALL PARTIES IS ESSENTIAL PART OF CONTRACT.
13. CONTRACTOR IS RESPONSIBLE FOR PROJECT AND SITE CONDITIONS, AND TO WORK WITH WEATHER CONDITIONS AS THE PROJECT SITE MAY BE LOCATED IN A FLOOD PRONE AREA AND SUBJECT TO FLOODING AND ITS HAZARDS.
14. THE CONTRACTOR IS TO VERIFY THE LOCATION, ELEVATION, CONDITION, AND PAVEMENT CROSS-SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING, PRIOR TO COMMENCEMENT OF GRADING, PAVING, CURB AND GUTTER, OR OTHER SURFACE CONSTRUCTION. SHOULD EXISTING LOCATIONS, ELEVATIONS, CONDITION, OR PAVEMENT CROSS-SLOPE DIFFER FROM THAT SHOWN ON THESE PLANS, RESULTING IN THE DESIGN INTENT REFLECTED ON THESE PLANS NOT ABLE TO BE CONSTRUCTED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL COSTS ASSOCIATED WITH CORRECTIVE ACTION IF THESE PROCEDURES ARE NOT FOLLOWED.
15. CONTRACTOR IS RESPONSIBLE TO COORDINATE UTILITY CROSSINGS AT CULVERT CROSSINGS BEFORE STARTING WORK ON CULVERT. COORDINATE WITH OWNER REPRESENTATIVE. VERIFY UTILITY LINES AND/OR CONDUITS ARE IN PLACE BEFORE STARTING CULVERT WORK.
16. THIS PROJECT REQUIRES A REGULAR ONGOING MAINTENANCE PROGRAM FOR THE DESIGNED DRAINAGE SYSTEM(S) TO PRESERVE THE DESIGN INTEGRITY AND THE ABILITY TO PERFORM ITS OPERATIONAL INTENT. FAILURE TO PROVIDE MAINTENANCE WILL JEOPARDIZE THE DRAINAGE SYSTEM(S) PERFORMANCE AND MAY LEAD TO IT'S INABILITY TO PERFORM PROPERLY AND/OR CAUSE DAMAGE ELSEWHERE IN THE PROJECT.

ENGINEER'S NOTES

1. MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION INCLUDING LATEST REVISION AND CURRENT SUPPLEMENTALS THEREOF PER THE LOCAL TOWN OR CITY) ARE INCORPORATED INTO THIS PLAN IN THEIR ENTIRETY.
2. ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THIS PLAN SHALL BE IN ACCORDANCE WITH THE M.A.G. STANDARD SPECIFICATIONS AND DETAILS AND CURRENT SUPPLEMENTS THEREOF PER THE LOCAL CITY OR TOWN UNLESS SPECIFIED OTHERWISE IN THESE PLANS OR ELSEWHERE IN THE CONTRACT DOCUMENTS. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH ALL REQUIRED STANDARD SPECIFICATIONS, DETAILS AND SUPPLEMENTS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL METHODS, SEQUENCING, AND SAFETY CONCERNS ASSOCIATED WITH THIS PROJECT DURING CONSTRUCTION, UNLESS SPECIFICALLY ADDRESSED OTHERWISE IN THIS PLAN OR ELSEWHERE IN THE CONTRACT.
4. THE CONTRACTOR IS TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS APPLICABLE TO THE CONSTRUCTION COVERED BY THIS PLAN.
5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE ALL WORK COVERED BY THIS PLAN.
6. THE QUANTITIES AND SITE CONDITIONS DEPICTED IN THESE PLANS ARE FOR GENERAL INFORMATIONAL PURPOSES ONLY AND MIGHT NOT REFLECT THE ACTUAL QUANTITIES AND SITE CONDITIONS. CONTRACTORS SHALL SATISFY THEMSELVES AS TO ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THIS PLAN.

ENGINEER'S NOTES

7. A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES AND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND/OR FACILITIES CAUSED DURING THEIR CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL CALL 811, 48 HOURS PRIOR TO ANY EXCAVATION FOR BLUE STAKE.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION OF CONSTRUCTION AFFECTING UTILITIES AND THE COORDINATION OF ANY NECESSARY UTILITY RELOCATION WORK.
9. ALL PAVING, GRADING, EXCAVATION, TRENCHING, PIPE BEDDING, CUT FILL AND BACKFILL SHALL COMPLY WITH THE RECOMMENDATIONS SET FORTH IN THE SOILS (GEOTECHNICAL) REPORT FOR THIS PROJECT IN ADDITION TO THE REFERENCED REQUIRED SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL BE AWARE THAT CERTAIN UTILITIES REQUIRE PROPER ATTENTION AND CAREFUL PLANNING DURING SITE CONSTRUCTION. PLEASE NOTE THAT UTILITIES ON THESE PLANS MAY NOT EXHIBIT THE FULL PROTECTIVE COVER REQUIRED DURING THE SUBGRADE PREPARATION PHASE OF THE CONSTRUCTION. IN SUCH INSTANCES, THE CONTRACTOR SHALL PROVIDE ADDITIONAL PROTECTION (SUCH AS RAMPING) OR INCREASED PIPE STRENGTH TO PROVIDE THE NECESSARY PROTECTION REQUIRED TO PREVENT DAMAGE DURING THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL HOLD THE ENGINEER HARMLESS IN ALL CASES FOR DAMAGES TO UTILITIES WHERE INADEQUATE PROTECTIVE MEASURES OCCUR.
10. THE CONTRACTOR IS TO VERIFY THE LOCATION AND THE ELEVATIONS OF ALL EXISTING UTILITIES AT POINTS OF TIE-IN PRIOR TO COMMENCING ANY NEW CONSTRUCTION. SHOULD ANY LOCATION OR ELEVATION DIFFER FROM THAT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S AGENT.

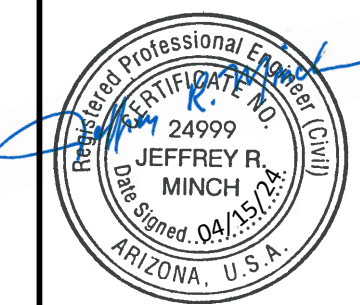



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LEGEND & ABBREVIATIONS					
CITY OF PHOENIX, ARIZONA					
STREET TRANSPORTATION DEPARTMENT					
2021 LOCAL DRAINAGE					
MITIGATION PROGRAM					
32ND STREET & MONTEROSA STREET					
DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 4/24	DATE: 4/24	DATE: 4/24	NO:	43	
SCALE:			40	43	

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AMERICAN RESCUE PLAN ACT (ARPA)
 PHOENIX STREET - MARICOPA CO
 2021 LOCAL DRAINAGE MITIGATION PROGRAM

	STATE 9 ARIZ	PROJECT NO ST83140120	NO 41	TOTAL 43
		Wood, Patel & Assoc., Inc. Civil Engineering Water Resources Land Survey Construction Management 602.335.8500 www.woodpatel.com		

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
M3100000	ASPHALT CONCRETE BASE COURSE, 6" THICK (MONTEROSA ST)	SY	13
M3100001	ASPHALT CONCRETE BASE COURSE, 8" THICK (32ND ST)	SY	9
M3360212	SAWCUT, REMOVE AND REPLACE A.C. PAVEMENT	SY	13
M3369793	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 3" THICK, PER SPECIAL PROVISIONS	SY	13
M3369809	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 6" THICK, PER SPECIAL PROVISIONS	SY	9
M3370102	APPLY CRACK SEAL AND SLURRY SEAL TREATMENT PER MAG SPEC 332, AND SPECIAL PROVISIONS	SY	254
M3370103	APPLY CRACK SEAL AND MICRO-SURFACE TREATMENT ER MAG SPEC 331, AND SPECIAL PROVISIONS	SY	170
M3500041	REMOVE PIPE	LF	26
M3500043	REMOVE EXISTING CATCH BASIN	EA	1
M5051776	CONCRETE CATCH BASIN MODIFIED, TYPE "M-2, L=10-FT" PHX SUPP. DETAIL P-1569	EA	1
M6180012	12" STORM SEWER PIPE (RGRCP, CLASS III)	LF	16
M6180015	15" STORM SEWER PIPE (RGRCP, CLASS III)	LF	5
M6181505	CONCRETE PIPE COLLAR FOR 18" PIPE AND SMALLER, MAG STANDARD DETAIL 505	EA	2
M6187712	12" STORM DRAIN CHECK VALVE IN OUTLET PIPE	EA	1
M6187715	15" STORM DRAIN CHECK VALVE IN OUTLET PIPE	EA	1
M6250012	48" STORM DRAIN MANHOLE	EA	1

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

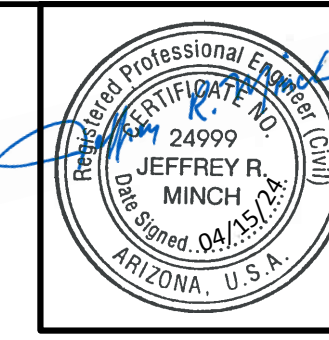


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QUANTITIES					
CITY OF PHOENIX, ARIZONA					
STREET TRANSPORTATION DEPARTMENT					
2021 LOCAL DRAINAGE MITIGATION PROGRAM					
32ND STREET & MONTEROSA STREET					
DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 4/24	DATE: 4/24	DATE: 4/24	41	43	
SCALE:			41	43	

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AMERICAN RESCUE PLAN ACT (ARPA)
 PHOENIX STREET - MARICOPA CO
 2021 LOCAL DRAINAGE MITIGATION PROGRAM



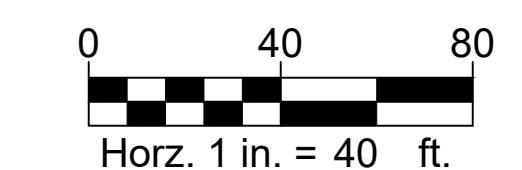
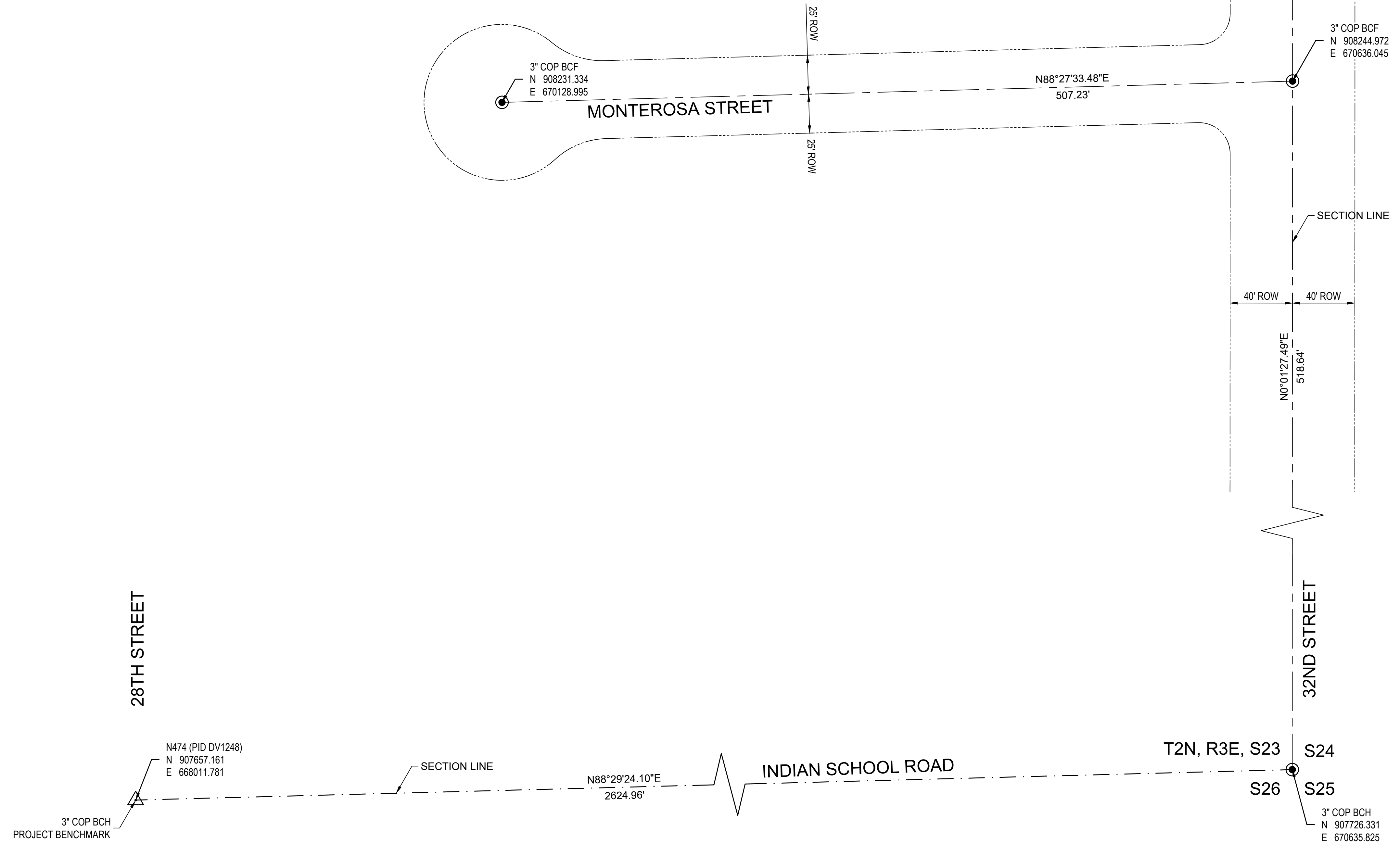
PRJ#	STATE	PROJECT NO	NO	TOTAL
9	ARIZ	ST83140120	42	43

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REVISION BY CITY OF PHOENIX	
NO	DESCRIPTION

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REVISION BY CITY OF PHOENIX	
NO	DESCRIPTION

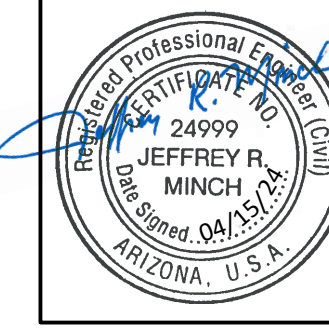


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GEOMETRIC CONTROL					
CITY OF PHOENIX, ARIZONA					
STREET TRANSPORTATION DEPARTMENT					
2021 LOCAL DRAINAGE MITIGATION PROGRAM					
32ND STREET & MONTEROSA STREET					
DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 4/24	DATE: 4/24	DATE: 4/24	NO:	42	43
SCALE: 1" = 40'			42	43	

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AMERICAN RESCUE PLAN ACT (ARPA)
PHOENIX STREET - MARICOPA CO
2021 LOCAL DRAINAGE MITIGATION PROGRAM



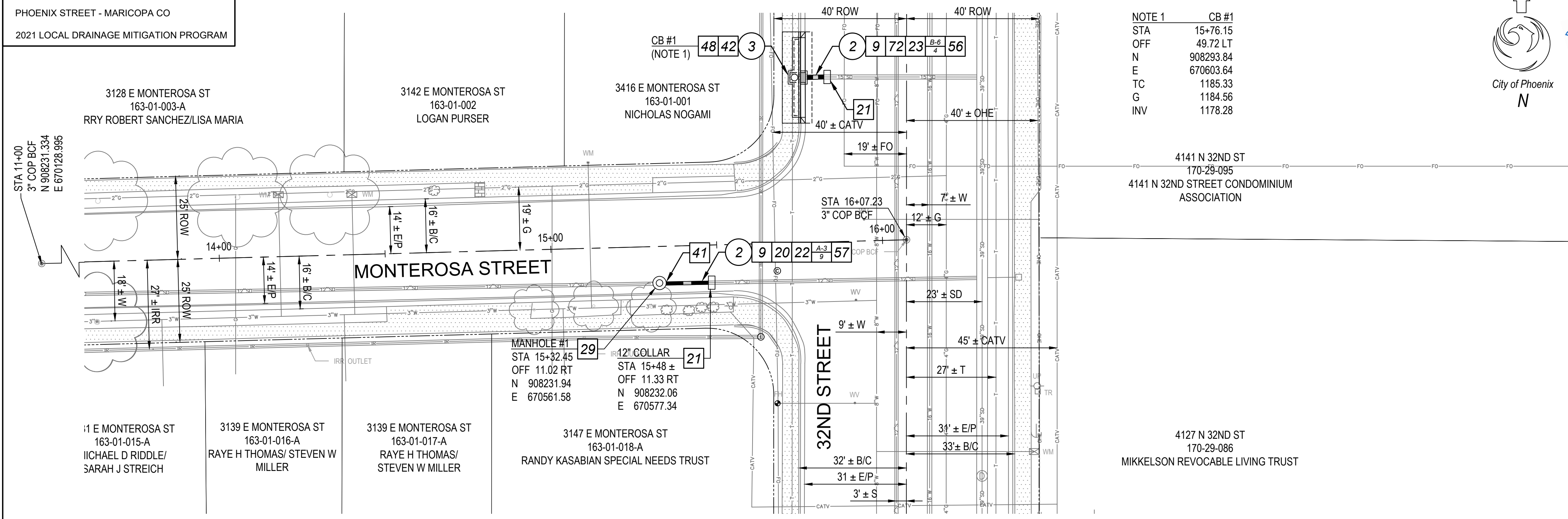
FEMA REGION	STATE	PROJECT NO	NO	TOTAL
9	ARIZ	ST83140120	43	43

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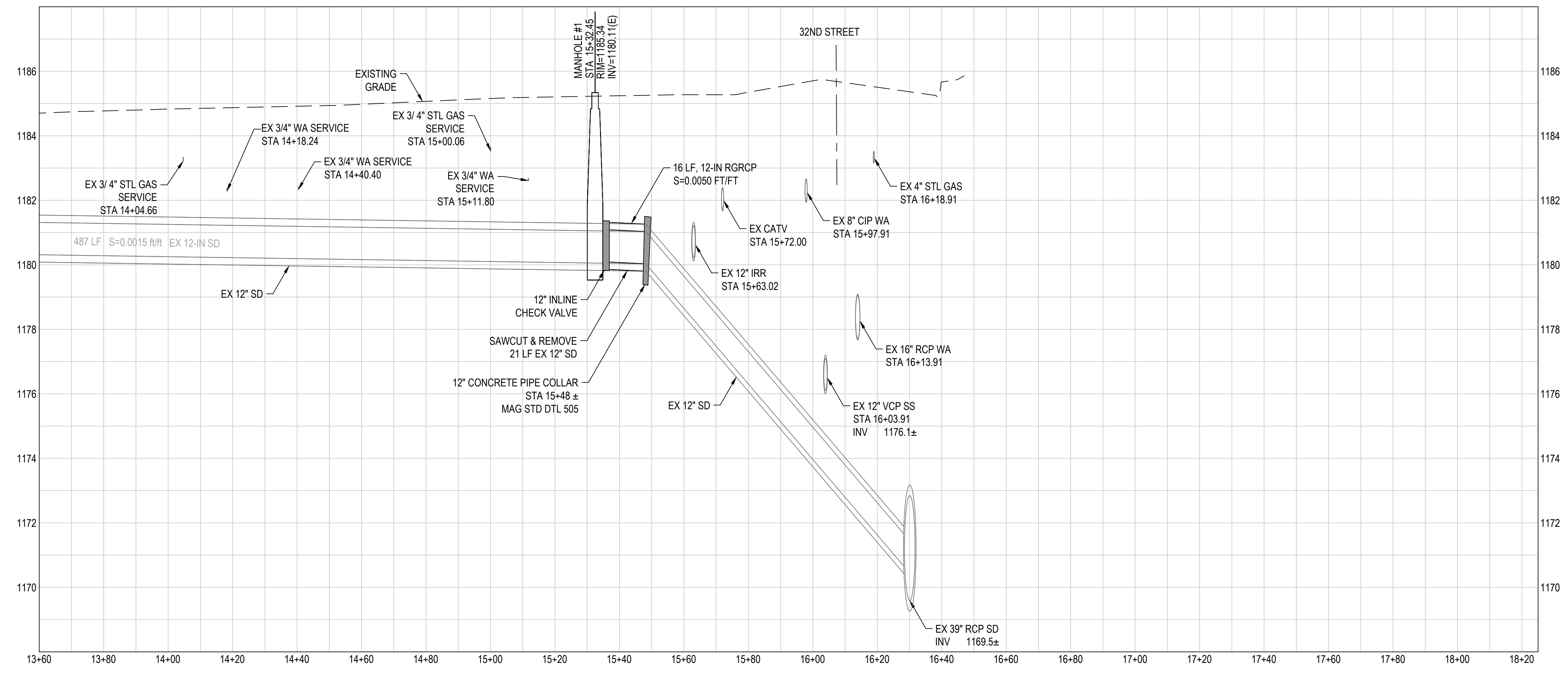
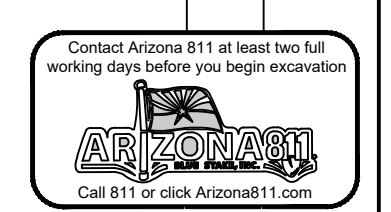
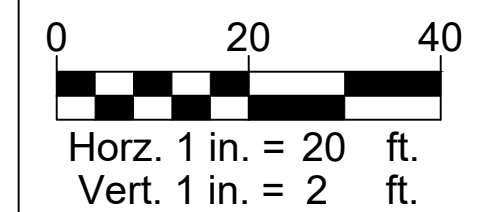
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CKD BY	DATE
NO				

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



REMOVAL & CONSTRUCTION NOTES

NO	DESCRIPTION	UNIT	QTY
2	REMOVE PIPE (M3500041)	LF	26
3	REMOVE EXISTING CATCH BASIN (M3500043)	EA	1
9	SAWCUT, REMOVE AND REPLACE A.C. PAVEMENT PER SPECIAL PROVISIONS (M3360212)	SY	13
20	AGGREGATE BASE COURSE, 6" THICK (MONTEROSA ST) (M3100000)	SY	13
21	CONCRETE PIPE COLLAR FOR 18" PIPE AND SMALLER, MAG STANDARD DETAIL 505 (M6181505)	EA	2
22	12" STORM SEWER PIPE (RGRCP, CLASS III) (M6180012)	LF	16
23	15" STORM SEWER PIPE (RGRCP, CLASS III) (M6180015)	LF	5
29	STORM SEWER MANHOLE, MAG STANDARD DETAIL 522, COP SUPP. STD. DETAIL P-1520 (M6250005)	EA	1
41	12" STORM DRAIN CHECK VALVE IN OUTLET PIPE (M6187712)	EA	1
42	15" STORM DRAIN CHECK VALVE IN OUTLET PIPE (M6187715)	EA	1
48	CONCRETE CATCH BASIN MODIFIED, TYPE "M-2, L=10 FT" PHX DETAIL P-1569 (M5051776)	EA	1
56	APPLY CRACK SEAL AND MICRO-SURFACE TREATMENT PER MAG SPEC 331, AND SPECIAL PROVISIONS (M3370103)	SY	170
57	APPLY CRACK SEAL AND SLURRY SEAL TREATMENT PER MAG SPEC 332, AND SPECIAL PROVISIONS (M3370102)	SY	254
72	AGGREGATE BASE COURSE, 8" THICK (32ND ST) (M3100001)	SY	9
A-3	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 3" THICK, PER SPECIAL PROVISIONS (MONTEROSA ST) (M3369793)	SY	13
B-6	ASPHALT CONCRETE FOR PERMANENT PAVEMENT REPLACEMENT, 6" THICK, PER SPECIAL PROVISIONS (32ND ST) (M3369809)	SY	9



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

PLAN & PROFILE

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

2021 LOCAL DRAINAGE MITIGATION PROGRAM
32ND STREET & MONTEROSA STREET

DR: IT, VB, JT	DES: IT, VB	CK: JGT	SHEET NO:	TOTAL SHEETS:	AS BUILT
DATE: 4/24	DATE: 4/24	DATE: 4/24	43	43	

SCALE: Horz. 1" = 20' Vert. 1" = 2'

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