
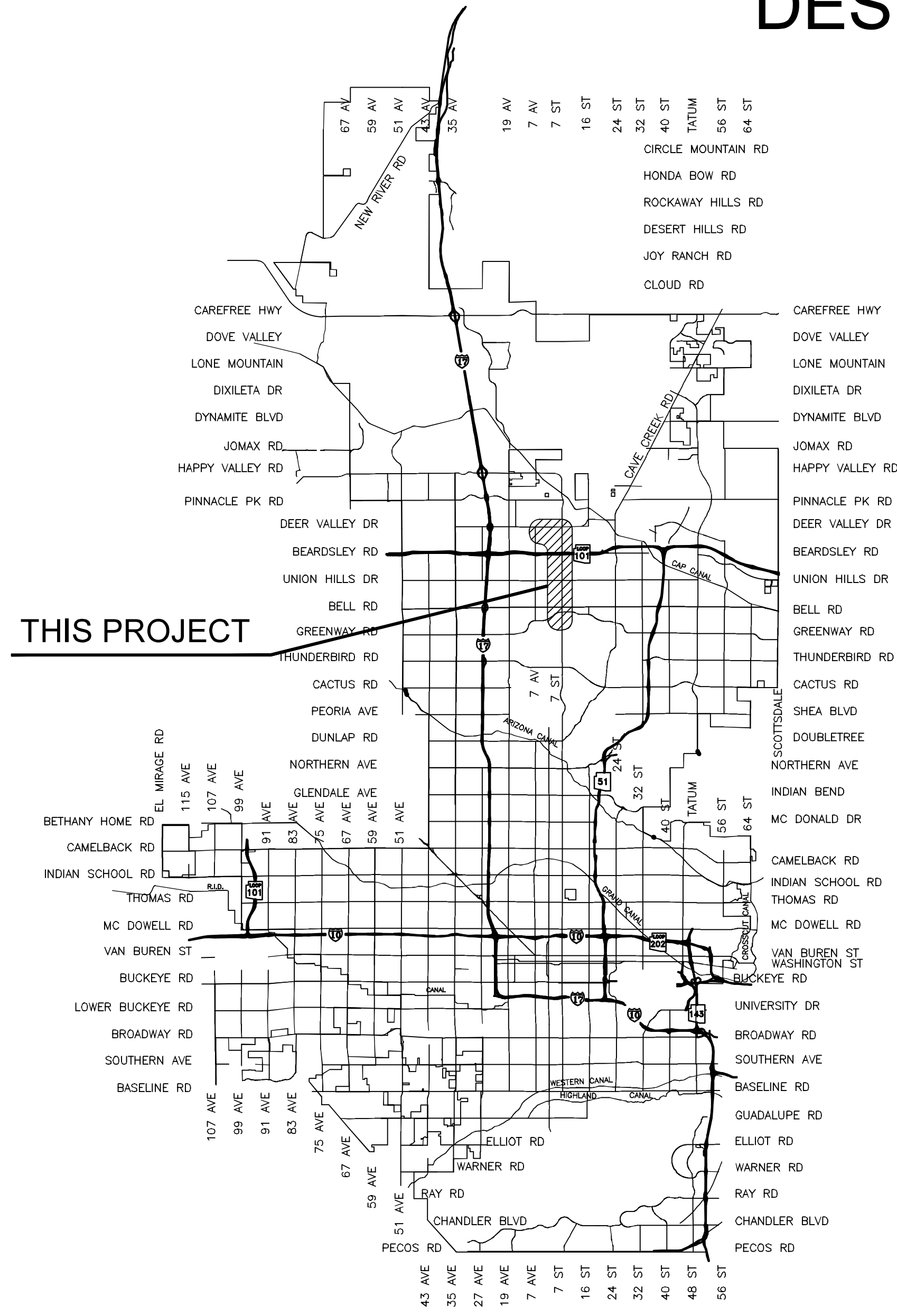


CITY OF PHOENIX
 STREET TRANSPORTATION DEPARTMENT
 DESIGN AND CONSTRUCTION MANAGEMENT DIVISION

7TH STREET FIBER
 TRANSPORTATION ENHANCEMENT PROJECT
 CITY OF PHOENIX PROJECT NO.
 ST89340660-1
 FEDERAL AID ID NO. PHX-0(361)D
 ADOT PROJECT NO. T0236 01C

	F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
	9	ARIZ.	ST89340660-1	1	37	
Jacobs		1501 W. FOUNTAINHEAD PKWY., SUITE 401, TEMPE, AZ 85282		PHONE: 480-966-8188 WWW.JACOBS.COM		
DESIGN:	BJS	DRAWN:	BJS	CHECKED: APM		
DATE:	02/24	DATE:	02/24	DATE:		



VICINITY MAP
 NTS



2024

LENGTH OF PROJECT = 20,629 LF = 3.9 MILES
 AREA OF DISTURBANCE = 0.24 ACRES (<1 ACRE)

CITY BENCHMARKS:
 SEE SURVEY CONTROL SHEETS FOR PRIMARY AND SECONDARY CITY OF PHOENIX BENCHMARKS.

QUARTER SECTIONS:
 36-28, 36-29, 37-28, 37-29, 38-28, 38-29, 39-28, 39-29,
 40-28, 40-29, 41-28, 41-29, 42-28, 42-29, 42-26, 42-27,
 43-26, 43-27, 43-28, 43-29

MAYOR
 KATE GALLEGO
CITY MANAGER
 JEFF BARTON
CITY COUNCIL

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

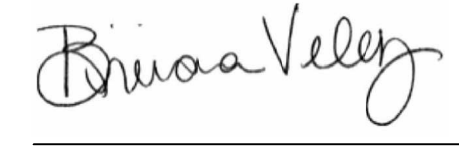
INDEX OF SHEETS

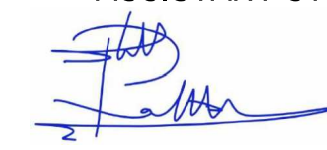
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	GENERAL NOTES
3	SYMBOL LEGEND, ABBREVIATIONS, AND CONSTRUCTION NOTES
4	CONSTRUCTION QUANTITIES SUMMARY
5	CITY OF PHOENIX NO. 9 PULL BOX (WITH HINGED LID) DETAILS
6	CITY OF PHOENIX NO. 9 PULL BOX FIBER CABLE INSTALLATION DETAILS
7	NO. 5 PULL BOX AND NO. 8 PULL BOX INSTALLATION DETAIL
8	PULL BOX FIBER CABLING DETAIL
9	TYPICAL ITS PULL BOX AND CONDUIT LOCATIONS
10	CONDUIT INSTALLATION DETAILS
11	BURIED CONDUIT INSTALLATION AROUND OR UNDER OBSTRUCTION
12	BORED CONDUIT INSTALLATION
13	NODE CABINET DETAILS
14	NODE CABINET FOUNDATION DETAILS
15-16	CANAL CROSSING CONDUIT ATTACHMENT DETAILS
17-18	FIBER EQUIPMENT CONNECTION DETAILS
19	KEY MAP
20-32	7TH STREET FIBER ENHANCEMENT PLAN SHEETS
33	GEOMETRIC CONTROL PLAN
34-37	RIGHT-OF-WAY PLAN

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENT AS SHOWN HEREON WHERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED ENGINEER/LAND SURVEYOR REGISTRATION NUMBER DATE

APPROVED  07/29/2024
 ASSISTANT STREET TRANSPORTATION DIRECTOR DATE

APPROVED  07/29/2024
 DEPUTY STREET TRANSPORTATION DIRECTOR DATE

"PER 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."



ST89340660-1 7TH STREET FIBER TRANSPORTATION ENHANCEMENT PROJECT - PHASE 1: SIGNED & SEALED

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

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM – COP NAVD 29

GENERAL NOTES:

THESE GENERAL NOTES ARE IN ADDITION TO OTHER APPLICABLE SPECIFICATIONS AND POLICIES OF THE CITY OF PHOENIX, MARICOPA ASSOCIATION OF GOVERNMENTS, AND THE ARIZONA DEPARTMENT OF TRANSPORTATION.

- UNDERGROUND CONDUIT SHALL BE INSTALLED AS INDICATED ON THE APPROVED PROJECT PLANS. ALL CONDUIT SHALL BE BACKFILLED WITH SELECT EXCAVATED BACKFILL UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 RIGID PVC OR HDPE UNLESS OTHERWISE SPECIFIED. CONDUITS SHALL BE LOCATED A MINIMUM OF THIRTY-SIX (36) INCHES BELOW THE FINISHED GRADE WHEN INSTALLED BY DIRECTIONAL DRILL METHOD AND A MINIMUM OF THIRTY-SIX (36) INCHES WHEN INSTALLED BY OPEN TRENCH METHOD.
- ALL CONDUIT RUNS SHALL BE INSPECTED BY THE CITY OF PHOENIX HORIZONTAL PROJECT MANAGEMENT ITD INSPECTORS OR FOREMEN BEFORE BEING COVERED. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE JOB FOREMAN TO REQUEST INSPECTION OR CALL THE ITD CONTACT AND REQUEST INSPECTION.
- REMNANTS OF NON-USED CONDUIT, PULL BOXES, ETC., SHALL BE REMOVED AND PROPERLY DISCARDED BY THE CONTRACTOR.
- COVERS FOR NEW PULL BOXES CONTAINING COMMUNICATION CABLES (FIBER OPTIC CABLES) SHALL BE MARKED "CITY COM."
- ALL CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES, PULL BOX TO PULL BOX. AT NO. 9 PULL BOXES THE CONDUIT SHALL ENTER STACKED HORIZONTALLY OR VERTICALLY AS SPECIFIED IN THE PLANS.
- INNERDUCT SHALL BE INSTALLED IN CONDUIT AT LOCATIONS AS IDENTIFIED IN THE PLANS AND AS SHOWN IN THE DETAILS.
- A MINIMUM DEPTH OF EIGHTEEN (18) INCHES OF CLASS "A" CONCRETE AGGREGATE DESIGNATED SIZE NO. 57 SHALL BE INSTALLED UNDER EACH PULL BOX AND EXTENDED A MINIMUM OF TWELVE (12) INCHES BEYOND EACH SIDE OF THE PULL BOX.
- THE CONTRACTOR SHALL ADHERE TO THE CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL," THE ADOT "TRAFFIC CONTROL DESIGN GUIDELINES" (TCDG), AND THE DOT/FHWA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AT ALL TIMES DURING CONSTRUCTION.
- THE PLANS SHOW THE GENERAL PATH AND LOCATION OF CONDUIT AND EQUIPMENT IN RELATION TO MAJOR PHYSICAL FEATURES. THE LOCATION OF UTILITY POLES, FIRE HYDRANTS, IRRIGATION DEVICES, VEGETATION AND OTHER STATIONARY OBJECTS ALONG THE CONDUIT PATH MAY NOT BE SHOWN BUT SHALL BE IDENTIFIED BY THE CONTRACTOR AS THE CONDUIT ROUTE IS MARKED JUST PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL PLACE ALL CONDUIT IN A MANNER THAT MINIMIZES BENDING BOTH HORIZONTALLY AND VERTICALLY, THUS MINIMIZING INDUCED STRESSES ON CABLES DURING CABLE INSTALLATION.
- ALL LOCATIONS MUST BE WITHIN CITY OR ADOT RIGHT-OF-WAY OR EASEMENT, UNLESS IDENTIFIED ELSEWHERE, AND SHALL BE APPROVED BY THE CITY PRIOR TO INSTALLATION.
- ALL CONDUIT AND CABLING SHALL BE INSTALLED ACCORDING TO NATIONAL ELECTRIC CODE REQUIREMENTS.
- ELBOWS SHALL NOT BE PERMITTED EXCEPT AS SPECIFIED ON THE PLANS.
- THE CONTRACTOR SHALL NOTIFY ARIZONA 811 AT 811 OR ONLINE AT ARIZONA811.COM AT LEAST TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL BLUE STAKE UTILITY LOCATION INFORMATION FROM RIGHT-OF-WAY TO RIGHT-OF-WAY ALONG THE ENTIRE CORRIDOR AND FOR PERFORMING ALL REQUIREMENTS AS PRESCRIBED IN A.R.S. 40-360.21 THROUGH .29, FOR ALL UNDERGROUND FACILITIES, INCLUDING THOSE THAT HAVE BEEN INSTALLED ON THE CURRENT PROJECT, UNTIL THE PROJECT IS ACCEPTED BY THE CITY.
- THE ADOT DISTRICT LANDSCAPE MAINTENANCE OFFICE SHALL BE CONTACTED PRIOR TO STARTING ANY UNDERGROUND WORK NEAR LANDSCAPING WITHIN ADOT RIGHT OF WAY. THE CONTRACTOR SHALL CONTACT KEN CAIRNS AT 602-712-7512 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO START OF CONSTRUCTION.
- ALL LANDSCAPE WORK SHALL CONFORM TO THE REQUIREMENTS OF SECTIONS 801-803 AND IRRIGATION WORK SHALL CONFORM TO THE REQUIREMENTS OF SECTION 808 OF THE ADOT 2021 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- ALL EXISTING PLANT MATERIAL THREE (3) FEET OR MORE FROM THE CENTERLINE OF THE TRENCH THAT IS DISTURBED DURING THE CONSTRUCTION PHASE SHALL BE REPLACED WITH THE IDENTICAL PLANT SPECIES AND SHALL BE PLANTED AND STAKED TO THE APPROVAL OF ADOT AND THE CITY WHERE WORK IS BEING PERFORMED. REPLACEMENT PLANT MATERIAL SHALL BE FIVE (5) GALLON CONTAINER SIZE FOR ALL TREES AND ONE (1) GALLON CONTAINER SIZE FOR ALL SHRUBS. PLANTINGS SHALL BE PLANTED AT THEIR ORIGINAL LOCATION OR AT A MINIMUM DISTANCE OF THREE (3) FEET FROM THE CENTERLINE OF THE CONDUIT TRENCH, WHICHEVER IS A GREATER DISTANCE. ALL REPLACED PLANTS SHALL BE PLANTED DURING THE APPROPRIATE SEASON FOR THAT SPECIFIC SPECIES.


- ALL EXISTING LANDSCAPE SHALL NOT BE WITHOUT EXISTING IRRIGATION SYSTEM SUPPLIED WATER FOR A PERIOD LONGER THAN 24 HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE HEALTHY CONDITION OF ALL EXISTING PLANT MATERIAL AND MAINTAINING THE PROPER FUNCTION OF THE WATER AND ELECTRICAL SERVICES AFFECTED BY CONSTRUCTION INCLUDING WATERING, WILL BE AT THE CONTRACTOR'S EXPENSE AND WILL NOT BE MEASURED OR PAID.
- UNDERGROUND CONDUIT SHALL BE INSTALLED AS INDICATED ON THE APPROVED PROJECT PLANS. ALL CONDUIT SHALL BE BACKFILLED WITH SELECT EXCAVATED BACKFILL UNLESS OTHERWISE NOTED ON THE PLANS.
- PLANT MATERIAL MAY BE PRUNED TO PROVIDE CONSTRUCTION ACCESS. THE PRUNING SHALL BE PERFORMED BY TRAINED AND EXPERIENCE LANDSCAPE PERSONNEL. THE PRUNING METHODS SHALL BE APPROVED BY ADOT AND THE CITY WHERE WORK IS BEING PERFORMED PRIOR TO ANY PRUNING.
- THE IRRIGATION SYSTEM SHALL BE REPAIRED, FLUSHED, AND TESTED AT OPERATING PRESSURE, FOR LEAKS IN THE SYSTEM WITHIN 24 HOURS. THE IRRIGATION SYSTEM SHALL BE REPAIRED WITH COMPARABLE MATERIALS AND INSTALLATION METHODS AS PER ORIGINAL PLANS AND TO THE APPROVAL OF ADOT AND THE CITY WHERE WORK IS BEING PERFORMED.
- THE INFORMATION SHOWN ON THE DRAWINGS CONCERNING THE TYPE AND LOCATION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES IS APPROXIMATE AND HAS NOT BEEN INDEPENDENTLY VERIFIED BY THE ENGINEER OR THE ENGINEER'S AGENT. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND AND OVERHEAD UTILITIES.
- THE CONTRACTOR SHALL NOTE THAT MANUFACTURERS' NAMES IN THESE PLANS ARE NOT INTENDED TO BE USED FOR PROPRIETARY MATERIAL ACQUISITION, BUT ARE INTENDED TO ILLUSTRATE THE TYPE OF PART OR FITTING WHICH WAS INTENDED IN THE DESIGN. THE CONTRACTOR SHALL HAVE THE FREEDOM TO OBTAIN SIMILAR AND COMPARABLE MATERIAL FROM ANY MANUFACTURER. ALL PARTS AND FITTINGS SHALL BE APPROVED BY THE CITY PRIOR TO PURCHASE.
- THERE SHALL BE NO MORE THAN TWO (2) NINETY (90) DEGREE BENDS AND NO MORE THAN THREE HUNDRED SIXTY (360) DEGREE TOTAL BENDS BETWEEN PULLING POINTS ON ALL CONDUIT RUNS. ALL CONDUIT BENDS SHALL BE LONG, SWEEPING BENDS WITH A RADIUS NOT LESS THAN TEN (10) TIMES THE INTERNAL DIAMETER OF THE CONDUIT.
- THE CONTRACTOR SHALL OBTAIN RIGHT-OF-WAY PERMIT FROM THE CITY FOR WORK TO BE PERFORMED ON CITY RIGHT-OF-WAY.
- THE CONTRACTOR SHALL OBTAIN RIGHT-OF-WAY PERMIT FROM ADOT FOR WORK TO BE PERFORMED IN ADOT RIGHT-OF-WAY.
- IF, AS PART OF THE CABLE INSTALLATION, THE EXISTING TRACER WIRE IS REMOVED BY THE CONTRACTOR FROM ANY DOT FMS CONDUITS THAT SHARE THE SAME TRENCH/DUCT BANK, A MINIMUM OF ONE NEW TRACER WIRE THAT MEETS ADOT SPECIFICATIONS MUST BE INSTALLED BY THE CONTRACTOR IN THE TRENCH/DUCT BANK OF CONDUITS SO THAT THE TRENCH/DUCT OF CONDUITS IS LOCATABLE FOR BLUE STAKING PURPOSES.
- IF THE CONTRACTOR INSTALLS NEW CONDUIT BANKS THAT ARE SEPARATE FROM ADOT CONDUIT BANKS, THE CONTRACTOR WILL INSTALL A TRACER WIRE IN EACH OF THE NEW CONDUIT BANKS.
- THE CONTRACTOR IS TO REQUEST TRAFFIC SIGNAL LOCATE MARKING BY CALLING 602-262-6204 BETWEEN THE HOURS OF 7:00 AM AND 5:00 PM MONDAY THROUGH FRIDAY AT LEAST TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION.
- ALL STATIONING SHOWN ON PLANS IS FOR REFERENCE ONLY AND DOES NOT CORRESPOND TO ANY AS-BUILT GEOMETRIC DOCUMENTATION.
- DO NOT OPEN TRAFFIC SIGNAL CABINET WITHOUT A CITY STREETS REPRESENTATIVE PRESENT.
- CONTRACTORS TO VERIFY WITH THE CITY THE EXISTING INNERDUCT FOR THE INSTALLATION OF NEW FIBER OPTIC CABLE ALONG DEER VALLEY ROAD, FROM 7TH AVENUE TO 7TH STREET.

POTHOLING NOTES:

- STANDARD POTHOLING (MORE THAN ONE POTHOLE PER PROJECT) THAT REQUIRES BACKFILL AND COMPACTION WILL BE REQUIRED TO ADHERE TO CITY OF PHOENIX, STREET PAVEMENT CUT POLICY FOR THE ASPHALT RESURFACING TREATMENTS. PERMIT FEE AND BOND WILL BE CALCULATED USING THE CUT AREA. KEYHOLE CORING AND PINHOLE POTHOLING (CATHODIC PROTECTION) WILL BE AN EXCEPTION FOR REQUIRED PAVEMENT TREATMENTS PROVIDED THE DIAMETER OF THE PAVEMENT CORES ARE LESS THAN TWO FEET.

UTILITY GENERAL NOTES:

- CITY OF PHOENIX UTILITIES: MAINTAIN 3' CLEARANCE BETWEEN PHOENIX WATER METERS/TAPS AND OTHER UTILITIES. PLEASE ENSURE THAT THE 6' HORIZONTAL AND 2' VERTICAL SEPARATION FROM OUTER DIAMETER OF PIPE (WATER AND/OR SEWER) TO OUTER DIAMETER PIPE (CONDUIT) ARE BEING MET IN ALL AREAS THROUGHOUT CONSTRUCTION. A 1' MINIMUM VERTICAL SEPARATION FROM ANY DRY UNDERGROUND UTILITY CROSSING SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAIN, OR WATER SERVICE TO OUTSIDE UNDERGROUND UTILITY EXCEPT FOR CROSSINGS OF LARGE MAINS. NEED TO MAINTAIN A 6' HORIZONTAL CLEARANCE FROM EXISTING FIRE HYDRANT AND A 1' VERTICAL CLEARANCE FROM OUTSIDE OF PROPOSED CONDUIT TO OUTSIDE WATER/SEWER MAINS. ALSO, NEED TO MAINTAIN A 6' RADIUS AROUND THE FIRE HYDRANT FOR PHOENIX FIRE DEPARTMENT TO ACCESS. AS TYPICAL ADJUST ANY WATER METERS, VALVES & SEWER MANHOLES IN CONFLICT WITH THIS PROJECT. IF 4' OF THE ACP PIPE IS EXPOSED IT MUST BE REPLACED PER M.A.G. 601.2.8.



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	2	37	

Jacobs
 1501 W. FOUNTAINHEAD PKWY., SUITE 401, TEMPE, AZ 85282
 PHONE: 480-866-8188
 WWW.JACOBS.COM

DESIGN: BJS	DRAWN: BJS	CHECKED: APM
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- COX COMMUNICATION UTILITIES: FOR COX COMMUNICATION UTILITIES IT IS RECOMMENDED TO PROTECT IN PLACE. USE CAUTION WHEN CONSTRUCTING UNDER OVERHEAD FACILITIES. CONTRACTOR TO ADJUST FIBER EQUIPMENT AS NECESSARY TO AVOID CONFLICTS. WHEN CROSSING COX COMMUNICATIONS FACILITIES, CONTRACTOR WILL BE REQUIRED TO POTHOLE TO DETERMINE DEPTH AND MAINTAIN A MINIMUM OF 12" VERTICAL AND HORIZONTAL SEPARATION FROM FACILITIES. UNDERGROUND AND SURFACE FACILITIES, INCLUDING PEDESTALS, VAULTS, HANDHOLES, MANHOLES, FIBER CABINETS, POWER SUPPLY AND/OR SURFACE MOUNTS WITHIN THE PROJECT VICINITY BUT OUTSIDE ANY IMMEDIATE CONSTRUCTION AREA, PROTECT IN PLACE. DISRUPTION OF PEDESTALS WILL RESULT IN LOSS OF SERVICE IN THE AREA. NOTIFY DAVID BRENNEMAN, CONSTRUCTION PLANNER DAVID.BRENNEMAN@COX.COM 602-694-3328, DANIEL GENCHI, CONSTRUCTION SUPERVISOR DANIEL.GENCHI@COX.COM 480-665-2513, RYAN KANN, CONSTRUCTION PLANNER RYAN.KANN@COX.COM, 602-694-1662, AND IAN HATFIELD, CONSTRUCTION PLANNER IAN.HATFIELD@COX.COM, 602-809-0545, PRIOR TO CONSTRUCTION.
- CENTURYLINK UTILITIES: FOR CENTURYLINK UTILITIES IT IS RECOMMENDED TO PROTECT IN PLACE. CONTRACTOR TO ADJUST FIBER OPTIC LINE AND EQUIPMENT AS NECESSARY TO AVOID CONFLICTS, MAINTAINING 12" VERTICAL AND HORIZONTAL SEPARATIONS. WHEN CROSSING CENTURYLINK FACILITIES CONTRACTOR WILL BE REQUIRED TO POTHOLE TO DETERMINE DEPTH AND MAINTAIN A MINIMUM OF 12" VERTICAL AND HORIZONTAL SEPARATION FROM FACILITIES. PERSUANT TO STATE LAW, SUPPORT AND PROTECTION IS REQUIRED FOR ALL CENTURYLINK FACILITIES DURING CONSTRUCTION. SHOULD THE CONTRACTOR LOCATE OR EXPOSE ANY UNKNOWN CENTURYLINK FACILITY, PLEASE CONTACT CENTURYLINK AS SOON AS POSSIBLE.
- SOUTHWEST GAS FACILITIES: FOR SOUTHWEST GAS FACILITIES, PROVIDE A MINIMUM 24" FACE-TO-FACE CLEARANCE AT THE POINT OF CROSSING AND 24 INCHES SEPARATION FOR PARALLEL SEPARATIONS. A MINIMUM OF 36" FROM FINAL GRADE IS REQUIRED FOR GAS FACILITIES. CONTRACTOR SHOULD HAND DIG CAREFULLY AT THE MARKED LOCATIONS UNTIL THE GAS PIPE HAS BEEN FOUND AND EXPOSED. USE CARE TO AVOID DAMAGING OR BREAKING A SMALL ELECTRICAL TRACER WIRE THAT MAY BE BURIED WITH THE PIPE. ONCE MECHANICAL TRENCHING IS IN PROGRESS, DO NOT ATTEMPT TO TRENCH WITHIN TWO FEET OF A GAS PIPE. THIS TRENCHING SHALL BE DONE BY HAND. IN THE EVENT THE CONTRACTOR SHOULD "HOOK" OR OTHERWISE STRAIN A GAS PIPE WHILE EXCAVATING, A CALL SHOULD BE PLACED TO 602-271-GASS (4277). IF A STEEL FACILITY IS EXPOSED AND THE PIPE COATING IS FOUND TO BE IN NEED OF REPAIR, CONTRACTOR SHOULD CONTACT SOUTHWEST GAS SO A CREW CAN BE DISPATCHED TO REWRAP THE PIPE AT NO COST TO THE CONTRACTOR. WHEN THE EXCAVATIONS ARE COMPLETE, ALL EXPOSED GAS PIPES SHOULD BE PROTECTED. IF THE TRENCH IS MORE THAN THREE FEET WIDE, THE PIPE MUST BE SUPPORTED IN A MANNER WHERE THE SUPPORTING MATERIAL DOES NOT DAMAGE THE PIPE OR ITS PROTECTIVE WRAPPING. SOUTHWEST GAS REQUIRES BACKFILLING TO HAVE 6" OF BEDDING, 6" OF SHADING WITH SAND OR MATERIAL FREE OF ROCKS AND ABLE TO PASS THROUGH A 3/8" SCREEN. DO NOT DROP BACKFILL DIRECTLY OVER THE EXPOSED GAS PIPE. WHEN COMPACTING BACKFILL, USE EXTRA CARE WHEN DIRECTLY OVER THE GAS PIPE IN ORDER TO AVOID ANY DAMAGE. ALL SOUTHWEST GAS FACILITIES INCLUDING, BUT NOT LIMITED TO, PIPELINE VALVES, VALVE BOX LIDS, AND VAULT MANHOLE COVERS ARE REQUIRED TO BE ACCESSIBLE AND PROTECTED AT ALL TIMES. CONTACT SOUTHWEST GAS CORPORATION AT 43RD OPERATIONS 602-484-5350 FOR COORDINATING WORK AND INSPECTIONS. FOR EMERGENCIES, PLEASE CALL 602-271-GASS (4277).
- VERIZON UTILITIES: FOR VERIZON UTILITIES, IT IS RECOMMENDED TO PROTECT IN PLACE. CONTRACTOR TO ADJUST FIBER OPTIC LINE AND EQUIPMENT AS NECESSARY TO AVOID CONFLICTS, MAINTAINING 24" MINIMUM CLEARANCE BETWEEN BORE AND ALL EXISTING UTILITIES.
- LUMEN UTILITIES: FOR LUMEN UTILITIES, IT IS RECOMMENDED TO PROTECT IN PLACE. CONTRACTOR TO ADJUST FIBER OPTIC LINE AND EQUIPMENT AS NECESSARY TO AVOID CONFLICTS, MAINTAINING 12" MINIMUM CLEARANCE BETWEEN BORE AND ALL EXISTING UTILITIES.
- ADOT: THE CONTRACTOR IS REQUIRED TO OBTAIN PERMITS FROM THE ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) BEFORE BEGINNING WORK OR RESTRICTING TRAFFIC IN THEIR RIGHT-OF-WAY. THE CONTRACTOR WILL NEED TO OBTAIN THESE PERMITS AND COMPLY WITH THEIR REQUIREMENTS. ANY WORK WITHIN ADOT'S RIGHT-OF-WAY REQUIRES THE CONTRACTOR TO PROVIDE A PROFILE AND A CONSTRUCTION PERMIT.



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.

GENERAL NOTES					
CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT					
7TH STREET FIBER TRANSPORTATION ENHANCEMENT PROJECT					
DR: BJS	DES: BJS	CK: APM	SHEET	TOTAL	AS
DATE: 02/24	DATE: 02/24	DATE: 02/24	NO:	SHEETS	BUILT
SCALE: AS SHOWN			2	37	

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM – COP NAVD 29

SYMBOL LEGEND		
PROPOSED	EXISTING	DESCRIPTION
		NO. 5 PULL BOX
		NO. 8 PULL BOX
		NO. 9 PULL BOX
		CONDUIT
		RIGHT-OF-WAY
		EASEMENT
		TRAFFIC SIGNAL CABINET
		NODE CABINET
		METER PEDESTAL
		BOLLARD

EXISTING UTILITY AND SIDEWALK LEGEND

	SD	STORM DRAIN
	W	WATER LINE
	S	SEWER LINE
	T	COMMUNICATION LINE
	E	ELECTRICAL LINE
	OHE	OVERHEAD ELECTRIC LINE
	GAS	GAS LINE
	EXST FIBER	FIBER LINE
		SIDEWALK
		CRACKSEAL AND MICROSURFACE TREATMENT

CONSTRUCTION NOTES

- 1 INSTALL SMFO (144) CABLE IN CONDUIT PER INSTALLATION DETAILS.
- 2 INSTALL NEW ETHERNET SWITCH IN EXISTING TRAFFIC SIGNAL CABINET.
- 3 COIL 50 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.
- 4 INSTALL NEW 1-2" CITY OF PHOENIX CONDUIT PER INSTALLATION DETAILS. SEE DETAIL ON SHEET 10.
- 5 COIL 100 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.
- 6 NOT USED.
- 7 APPLY CRACKSEAL AND MICROSURFACE TREATMENT PER 2023 REVISIONS TO THE 2020 EDITION OF THE MAG SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION SECTION 331 & 337, COP STREET PAVEMENT CUT POLICY
- 8 NOT USED.
- 9 COORDINATE WITH CITY OF PHOENIX ITD STAFF FOR SPECIFIC ACCESS, LOCATION, AND MANNER OF TERMINATING CABLE.
- 10 FUSION SPLICE SMFO (12) BRANCH CABLE TO DESIGNATED FIBERS OF SMFO (144) BACKBONE CABLE IN NEW SPLICE CLOSURE AS SHOWN IN FIBER SPLICE DETAILS.
- 11 NOT USED.
- 12 EXISTING SMFO CABLE IN PULL BOX. PROTECT IN PLACE.
- 13 COORDINATE WITH CITY OF PHOENIX ITD STAFF, BENJAMIN VOZZA AT BENJAMIN.VOZZA@PHOENIX.GOV FOR AIRPORT ACCESS.
- 14 INSTALL NEW 2-1.25" CITY OF PHOENIX CONDUITS PER INSTALLATION DETAILS. SEE DETAIL ON SHEET 10.
- 15 EXISTING CONDUIT. PROTECT IN PLACE.
- 16 ROUTE NEW CONDUIT INTO EXISTING PULL BOX.
- 17 ROUTE EXISTING CONDUIT INTO NEW PULL BOX.
- 18 NOT USED.
- 19 NOT USED.
- 20 EXISTING PULL BOX. PROTECT IN PLACE.
- 21 INSTALL NEW CITY OF PHOENIX NO. 8 PULL BOX. SEE DETAIL ON SHEET 7.
- 22 INSTALL NEW CITY OF PHOENIX NO. 9 PULL BOX WITH LID. SEE DETAIL ON SHEET 5.
- 23 NOT USED.
- 24 NOT USED.
- 25 NOT USED.
- 26 INSTALL NEW 3-1.25" CITY OF PHOENIX CONDUITS PER INSTALLATION DETAILS. SEE DETAIL ON SHEET 10.
- 27 ATTACH NEW 1-5" RIGID METAL CONDUIT TO EXISTING BRIDGE STRUCTURE. SEE DETAIL ON SHEET 15-16.
- 28 INSTALL NEW SMFO (144) CABLE INTO EXISTING CITY OF PHOENIX 3" SPARE TRAFFIC SIGNAL CONDUIT.
- 29 EXISTING TYPE 'B' BATTERY BACKUP POWER PEDESTAL. PROTECT IN PLACE.
- 30 NOT USED.
- 31 NOT USED.
- 32 EXISTING CABINET. PROTECT IN PLACE.
- 33 INSTALL BOLLARDS PER MAG STANDARD DETAIL 140, TYPE 1 PERMANENT.
- 34 FUSION SPLICE NEW SMFO (144) CABLE TO DESIGNATED FIBER OF EXISTING SMFO (144) CABLE IN EXISTING SPLICE ENCLOSURE AS SHOWN IN FIBER SPLICE DETAILS.
- 35 NOT USED.
- 36 EXISTING METER PEDESTAL. PROTECT IN PLACE.
- 37 NOT USED.
- 38 NOT USED.
- 39 INSTALL NEW FIBER OPTIC SHEAR ASSEMBLY WITH 250-FT TAIL.

ABBREVIATIONS (CONT'D)

PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE CONDUIT
RMC	RIGID METAL CONDUIT
R/W	RIGHT-OF-WAY
SMFO	SINGLE MODE FIBER OPTIC
SWE	SIDEWALK EASEMENT
SC	STANDARD CONNECTOR
SFP	SMALL FORM-FACTOR PLUGGABLE
TYP.	TYPICAL
UNK	UNKNOWN

F.H.W.A. REGION 9	STATE ARIZ.	PROJECT NO. ST89340660-1	SHEET NO. 3	TOTAL SHEETS 37	AS BUILT
		Jacobs 1501 W. FOUNTAINHEAD PKWY., SUITE 401, TEMPE, AZ 85282 PHONE: 480-866-8108 WWW.JACOBS.COM			
		DESIGN: BJS	DRAWN: BJS	CHECKED: APM	

ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY TRANSPORTATION OFFICIALS
ADOT	ARIZONA DEPARTMENT OF TRANSPORTATION
AGG	AGGREGATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
APS	ARIZONA PUBLIC SERVICE
B/C	BACK-OF-CURB
COM	COMMUNICATION
CONC	CONCRETE
COP	CITY OF PHOENIX
CT	COUNT
DIA	DIAMETER
DOT	DEPARTMENT OF TRANSPORTATION
EXST	EXISTING
FHWA	FEDERAL HIGHWAY ADMINISTRATION
FT	FEET
HDPE	HIGH DENSITY POLYETHYLENE
ITD	INFORMATION TECHNOLOGY DEPARTMENT
LIU	LIGHT INTERFACE UNIT
LC	LUCENT CONNECTOR
LF	LINEAR FEET
MAG	MARICOPA ASSOCIATION OF GOVERNMENTS
MAX	MAXIMUM
MIN	MINIMUM
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
NO.	NUMBER
N.T.S.	NOT TO SCALE



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.

SYMBOL LEGEND, ABBREVIATIONS, AND CONSTRUCTION NOTES

CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

7TH STREET FIBER TRANSPORTATION ENHANCEMENT PROJECT

DR: BJS	DES: BJS	CK: APM	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	NO:	3	37
SCALE: AS SHOWN					

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29



F.H.W.A. REGION 9	STATE ARIZ.	PROJECT NO. ST89340660-1	SHEET NO. 4	TOTAL SHEETS 37	AS BUILT
Jacobs		1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282		PHONE: 480-866-8188 WWW.JACOBS.COM	
DESIGN: BJS		DRAWN: BJS		CHECKED: APM	

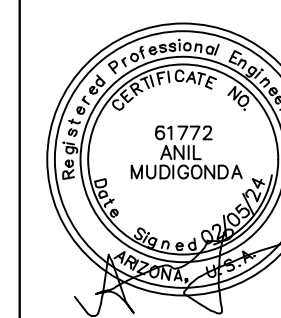
REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CHK BY	DATE

CONSTR. NOTE(S)	ITEM NO.	ITEM DESCRIPTION	UNIT	ESTIMATE QUANTITY	SHEET NO.												
					20	21	22	23	24	25	26	27	28	29	30	31	32
-	M1058000	CONSTRUCTION SURVEYING AND LAYOUT	L.SUM	1	LUMP SUM ITEM												
7	M3370103	CRACK SEAL AND MICROSEAL	SQ.YD.	44,122	0	0	0	1258	0	3207	3426	1440	6947	9359	7287	9260	1938
-	M4012000	TRAFFIC CONTROL DEVICES	JOB	1	JOB ITEM												
-	M4013000	ALLOWANCE FOR UNIFORMED, OFF-DUTY LAW ENFORCEMENT OFFICER	JOB	1	JOB ITEM												
33	M5200150	STEEL BOLLARDS PER PLANS	EACH	2	0	0	0	2	0	0	0	0	0	0	0	0	0
27	7320172	ELECTRICAL CONDUIT (5") (RIGID METAL)	L.FT.	410	0	0	0	265	0	0	0	0	0	0	0	0	145
4	7320292	ELECTRICAL CONDUIT (1 - 2")	L.FT.	35	0	0	0	0	0	0	0	0	0	0	0	0	35
14	7320296	ELECTRICAL CONDUIT (2 - 1.25")	L.FT.	19,344	0	0	1365	459	1860	1970	2205	1910	2070	1865	2010	1900	1730
26	7320297	ELECTRICAL CONDUIT (3 - 1.25")	L.FT.	884	0	0	0	884	0	0	0	0	0	0	0	0	0
21	7320456	PULL BOX (NO. 8)(PHOENIX)	EACH	17	0	0	1	2	2	2	2	0	2	1	1	0	4
22	7320460	PULL BOX (NO. 9)(PHOENIX)	EACH	7	0	0	0	0	0	0	0	1	1	0	2	1	2
1, 3, 5, 28	7320787	SINGLE MODE FIBER OPTIC CABLE (144 FIBERS)	L.FT.	27,577	1950	2370	2020	1751	1960	2395	2506	2010	2270	1915	2260	2000	2170
10	7320796	FIBER OPTIC SPLICE CLOSURE (PHOENIX)(7TH ST AND PARADISE LN)	EACH	1	0	0	0	0	0	0	0	0	0	0	0	0	1
31	7340103	CONTROL CABINET (PHOENIX)(DEER VALLEY RD AND 7TH ST NODE CABINET)	EACH	1	0	0	0	1	0	0	0	0	0	0	0	0	0
9, 13	7370422	ELECTRICAL SYSTEM (LAYER 3 NETWORK SWITCH)	EACH	1	0	0	0	1	0	0	0	0	0	0	0	0	0
-	7370455	MISCELLANEOUS WORK (AS-BUILT DRAWINGS)	L.SUM	1	0	0	0	0	0	0	0	0	0	0	0	0	0
9, 13	7370652	FIBER OPTIC EQUIPMENT (TERMINATION PANEL)	EACH	1	0	0	0	1	0	0	0	0	0	0	0	0	0
-	7370654	FIBER OPTIC EQUIPMENT (FIELD HARDENED ETHERNET SWITCH)	EACH	1	0	0	0	0	0	0	0	0	0	0	0	0	1
16, 17	9240011	FORCE ACCOUNT WORK (PULL BOX AND CONDUIT RECONDITIONING)	L.SUM	1	LUMP SUM ITEM												
34	9240119	MISCELLANEOUS WORK (MODIFY EXISTING SPLICE CLOSURE AT DEER VALLEY RD AND 7TH AVE)	EACH	1	1	0	0	0	0	0	0	0	0	0	0	0	0
-	9240172	MISCELLANEOUS WORK (FIBER OPTIC SHEAR ASSEMBLY WITH 250-FT TAIL)	EACH	1	0	0	0	0	0	0	0	0	0	0	0	0	1
-	E6992000	ALLOWANCE FOR STORMWATER POLLUTION PREVENTION BEST MANAGEMENT PRACTICE (BMP'S)	JOB	1	JOB ITEM												



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.

CONSTRUCTION QUANTITIES SUMMARY					
CITY OF PHOENIX, ARIZONA					
STREET TRANSPORTATION DEPARTMENT					
7TH STREET FIBER TRANSPORTATION ENHANCEMENT PROJECT					
DR: BJS	DES: BJS	CK: APM	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	NO:	4	37
SCALE: AS SHOWN			4	37	



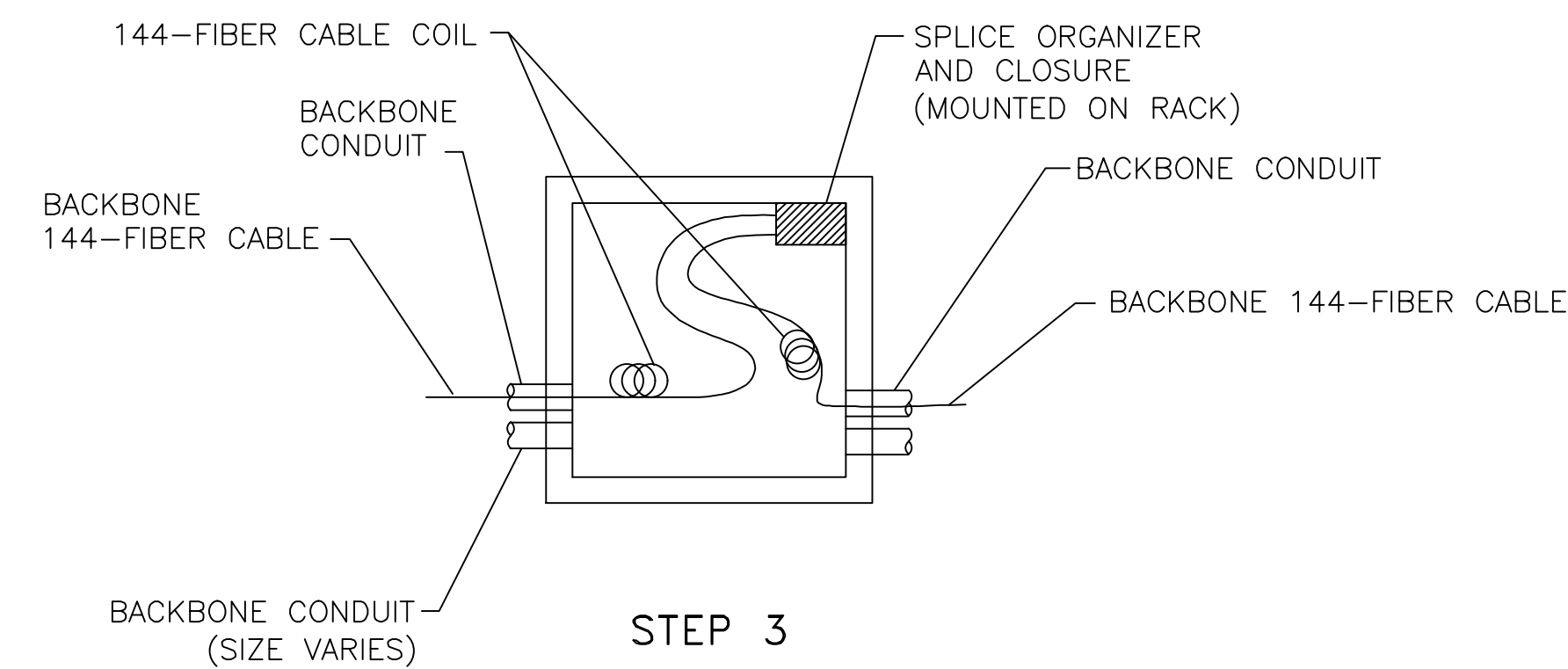
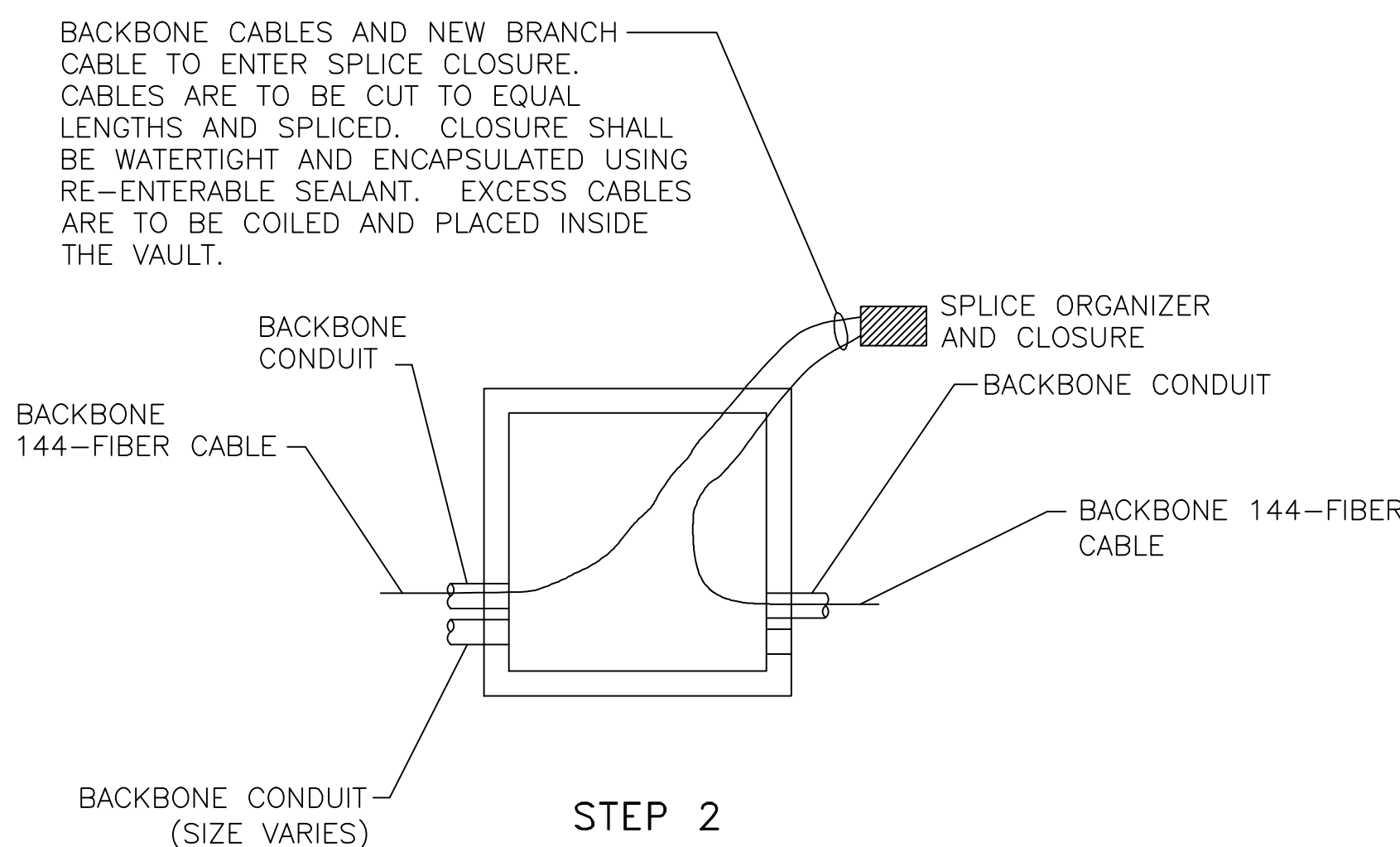
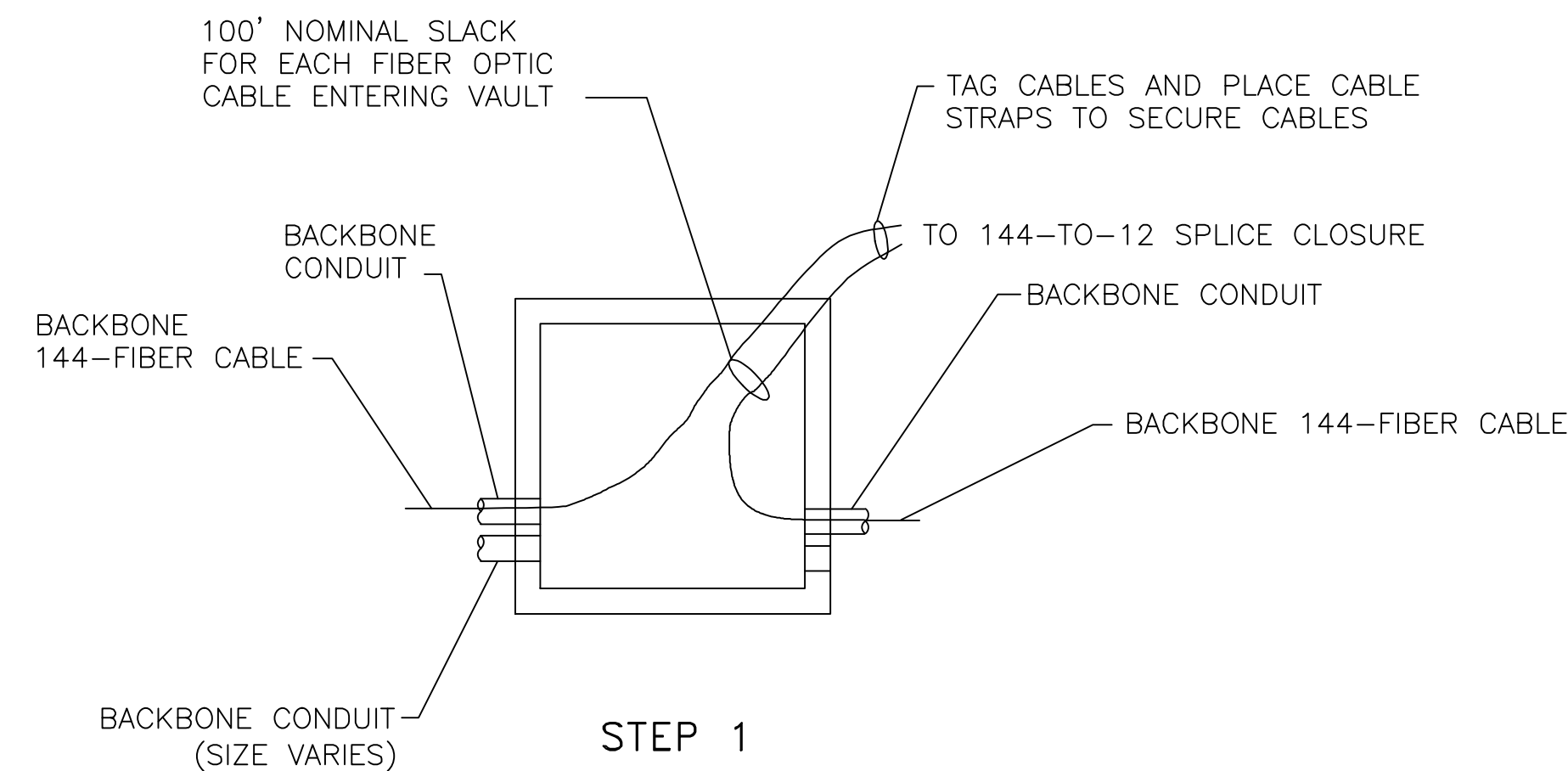
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	6	37	
Jacobs		1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282		PHONE: 480-866-8108 WWW.JACOBS.COM	
DESIGN: BJS	DRAWN: BJS	CHECKED: APM			

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29

REVISION BY	DESCRIPTION	NO.	DATE
CITY OF PHOENIX			

REVISION BY	DESCRIPTION	NO.	DATE
CITY OF PHOENIX			

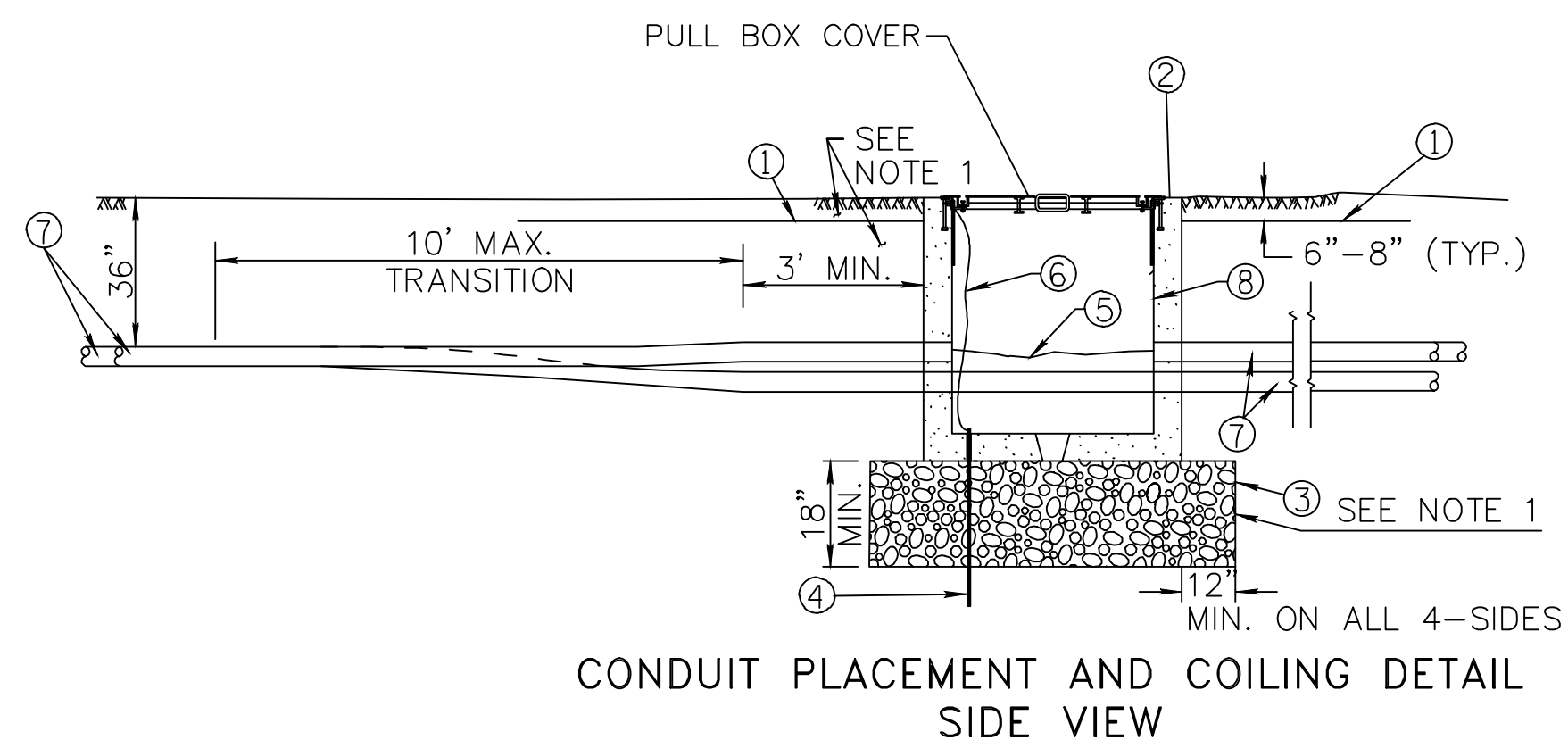
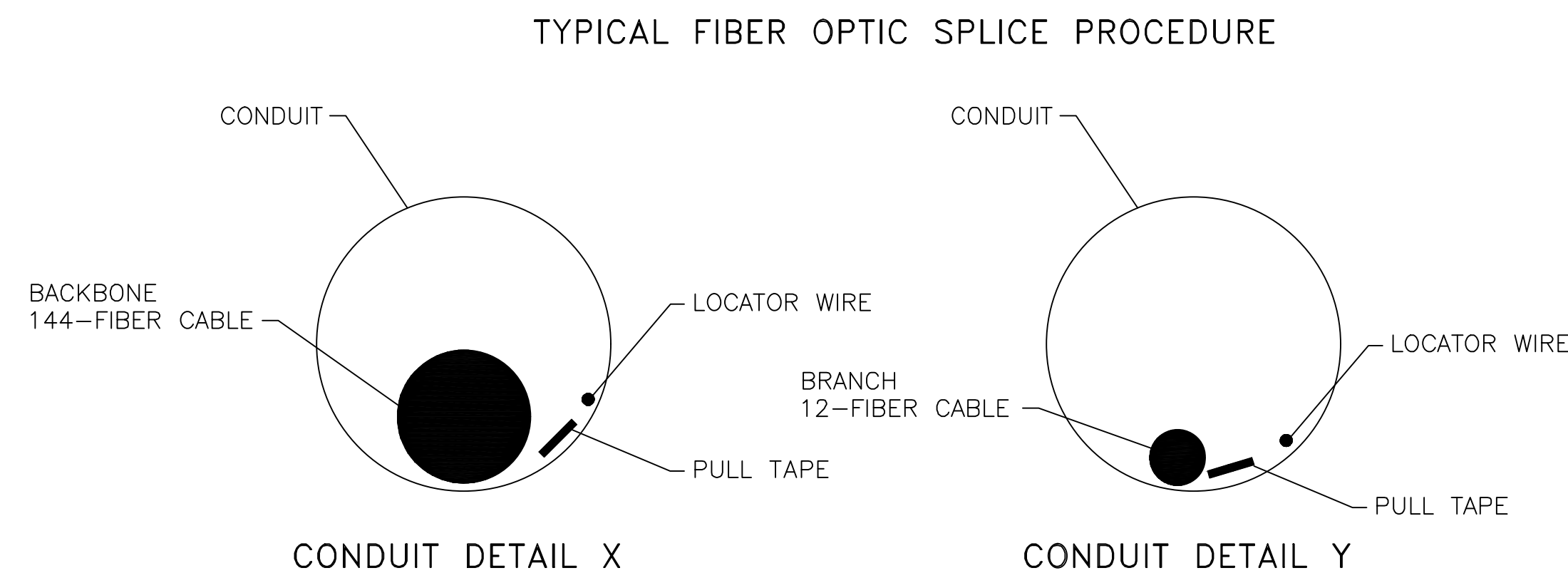
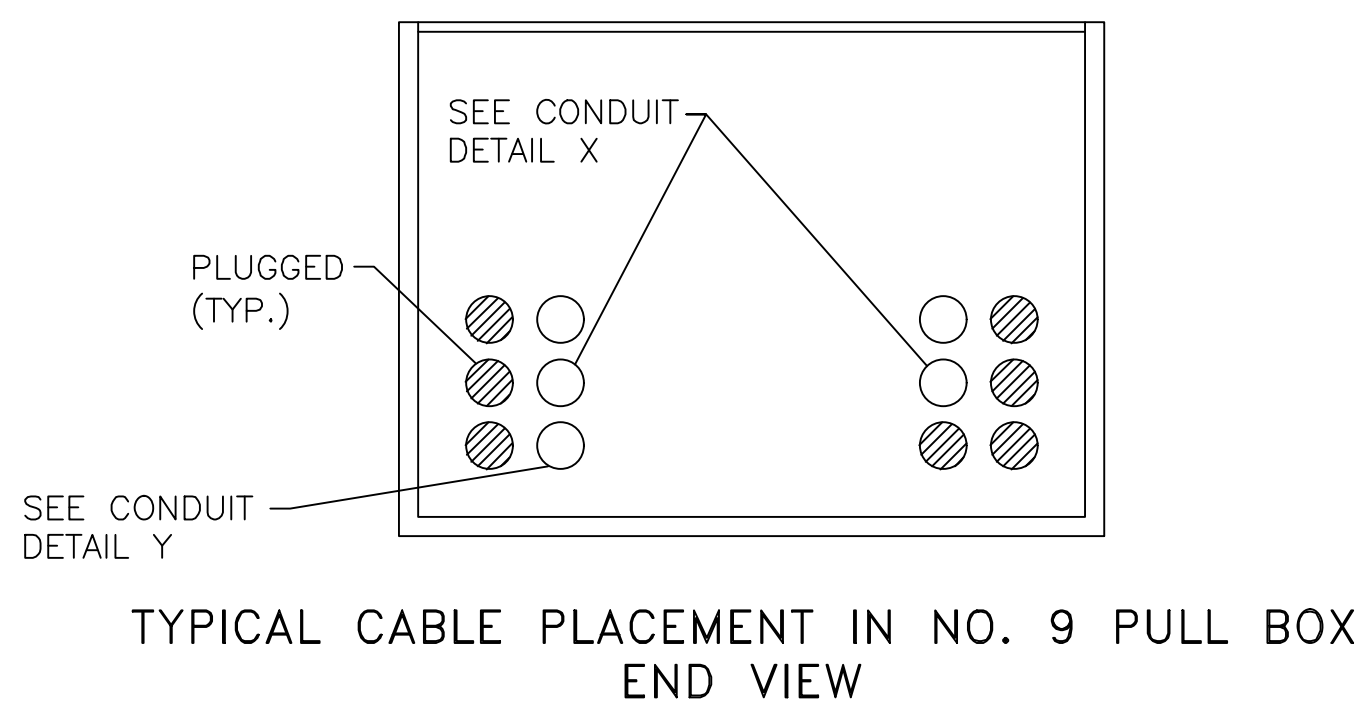
REVISION BY	DESCRIPTION	NO.	DATE
CITY OF PHOENIX			



BACKBONE CABLES AND NEW BRANCH CABLE TO ENTER SPLICE CLOSURE. CABLES ARE TO BE CUT TO EQUAL LENGTHS AND SPLICED. CLOSURE SHALL BE WATERTIGHT AND ENCAPSULATED USING RE-ENTERABLE SEALANT. EXCESS CABLES ARE TO BE COILED AND PLACED INSIDE THE VAULT.

NOTES:

1. COIL SLACK FOR ALL FIBER OPTIC CABLES IN EACH NO. 9 PULL BOX.
2. ALL COMMUNICATIONS CABLES SHALL BE TAGGED WITH CABLE IDENTIFICATION OF SIZE (I.E. 144-FIBER, SMFO) AND CITY OWNER.



NOTES:

1. BACKFILL WITH DESIGNATED SIZE NO. 57 AGGREGATE BELOW PULL BOX AND EXTENDED 12" MIN BEYOND PULL BOX EDGES ON ALL 4-SIDES. BACKFILL AROUND SIDES OF PULL BOX WITH SELECT EXCAVATED MATERIAL AND COMPACT AT 95% MAX. DENSITY.
2. CONDUIT FROM TYPICAL TRENCH SECTION SHALL NOT DEFLECT BY MORE THAN 1 INCH PER FOOT FROM THE ALIGNMENT PRECEDING OR FOLLOWING THE PULL BOX.
3. THE NO. 9 PULL BOX SHALL MEASURE 45" ±3" FOR ALL INTERIOR DIMENSIONS OF THE PULL BOX, MEASURED AT TOP OF PULL BOX. THIS MEASUREMENT SHALL ALSO APPLY TO INTERIOR DEPTH.
4. NUMBERS IN CIRCLES REFER TO ITEMS IN MATERIAL LIST.
5. PULLING IRONS NEAR BOTTOM OF PULL BOX.
6. ALL NEW PULL BOXES SHALL BE FURNISHED WITH RACKS AND HOOKS INSTALLED.
7. PROVIDE TOTAL SLACK PER PLAN FOR EACH FIBER OPTIC CABLE COILED IN ALL NO. 9 PULL BOXES, WITH SPLICE CLOSURE MOUNTED ON RACK.

MATERIAL LIST	
ITEM	DESCRIPTION
①	WARNING TAPE
②	NO. 9 PULL BOX
③	CLASS "A" CONC. AGG. DESIGNATED SIZE NO. 57
④	GROUND ROD OR 25' OF BARE COPPER 4 AWG
⑤	DETECTABLE PULL TAPE
⑥	#6 AWG GROUNDING WIRE TO LID (SEE NOTE 17)
⑦	CONDUIT PER PLANS
⑧	RACK AND HOOK (EACH WALL TYP.)

PULL BOX NO. 9 WIRING DETAILS




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.

CITY OF PHOENIX NO. 9 PULL BOX FIBER CABLE INSTALLATION DETAILS
CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

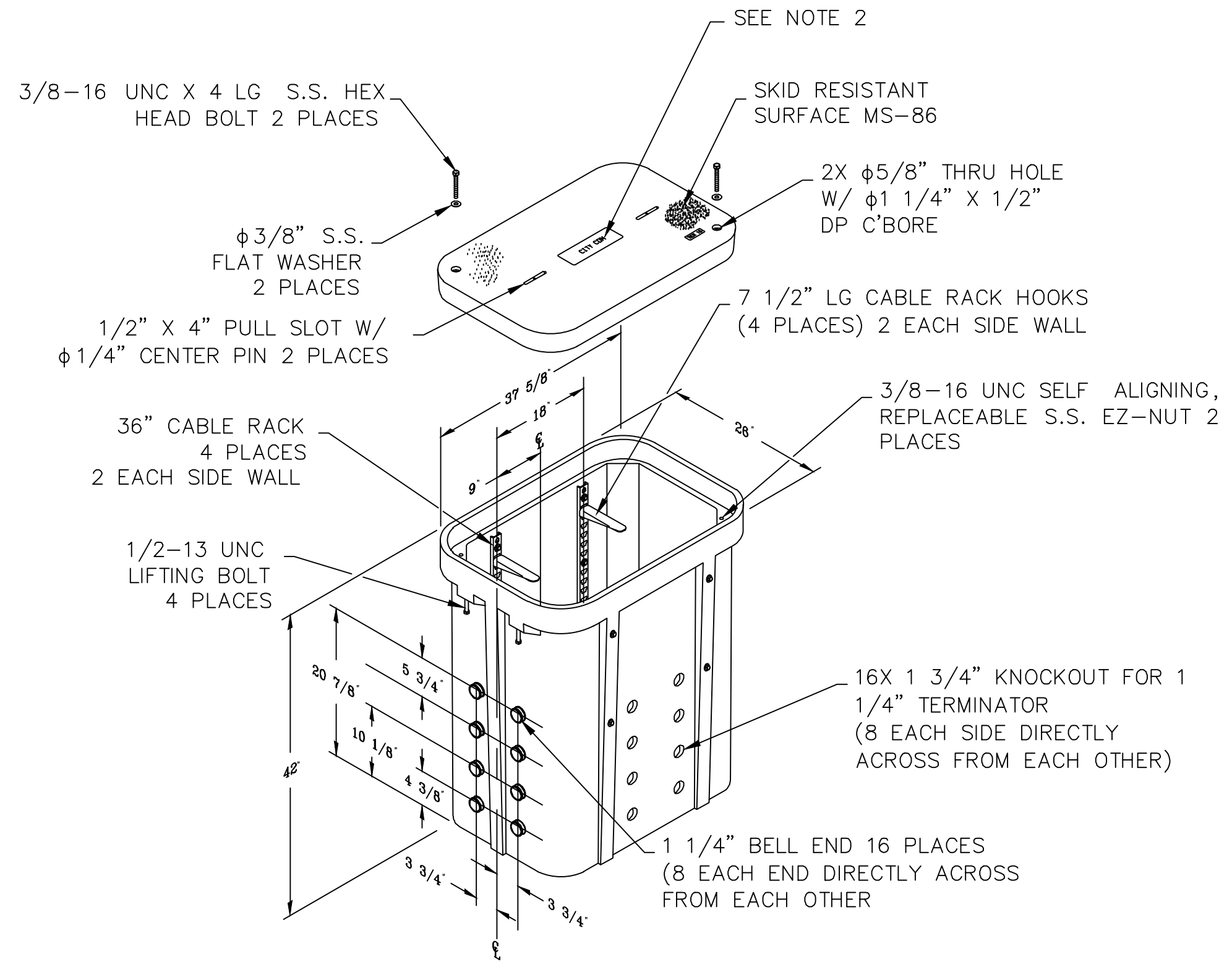
7TH STREET FIBER TRANSPORTATION ENHANCEMENT PROJECT

DR: BJS	DES: BJS	CK: APM	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	NO:	6	37
SCALE: AS SHOWN				6	37

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29

	F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
	9	ARIZ.	ST89340660-1	7	37	
Jacobs		1501 W. FOUNTAINHEAD PKWY., SUITE 401, TEMPE, AZ 85282		PHONE: 480-866-8108 WWW.JACOBS.COM		
DESIGN: BJS	DRAWN: BJS	CHECKED: APM				

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



CITY OF PHOENIX NO. 8 PULL BOX DETAIL
 N.T.S.

- PULL BOX NO. 8 NOTES**
- ONE - 5/8" X 8" COPPER-CLAD GROUND ROD (10 MILS MIN) SHALL BE INSTALLED IN ONE CORNER OF PULL BOX
 - "CITY COM" LETTERING SIZE SHALL BE TWO INCHES. CONTRACTOR SHALL SUBMIT PROPOSED LETTERING FOR ENGINEER APPROVAL.




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.

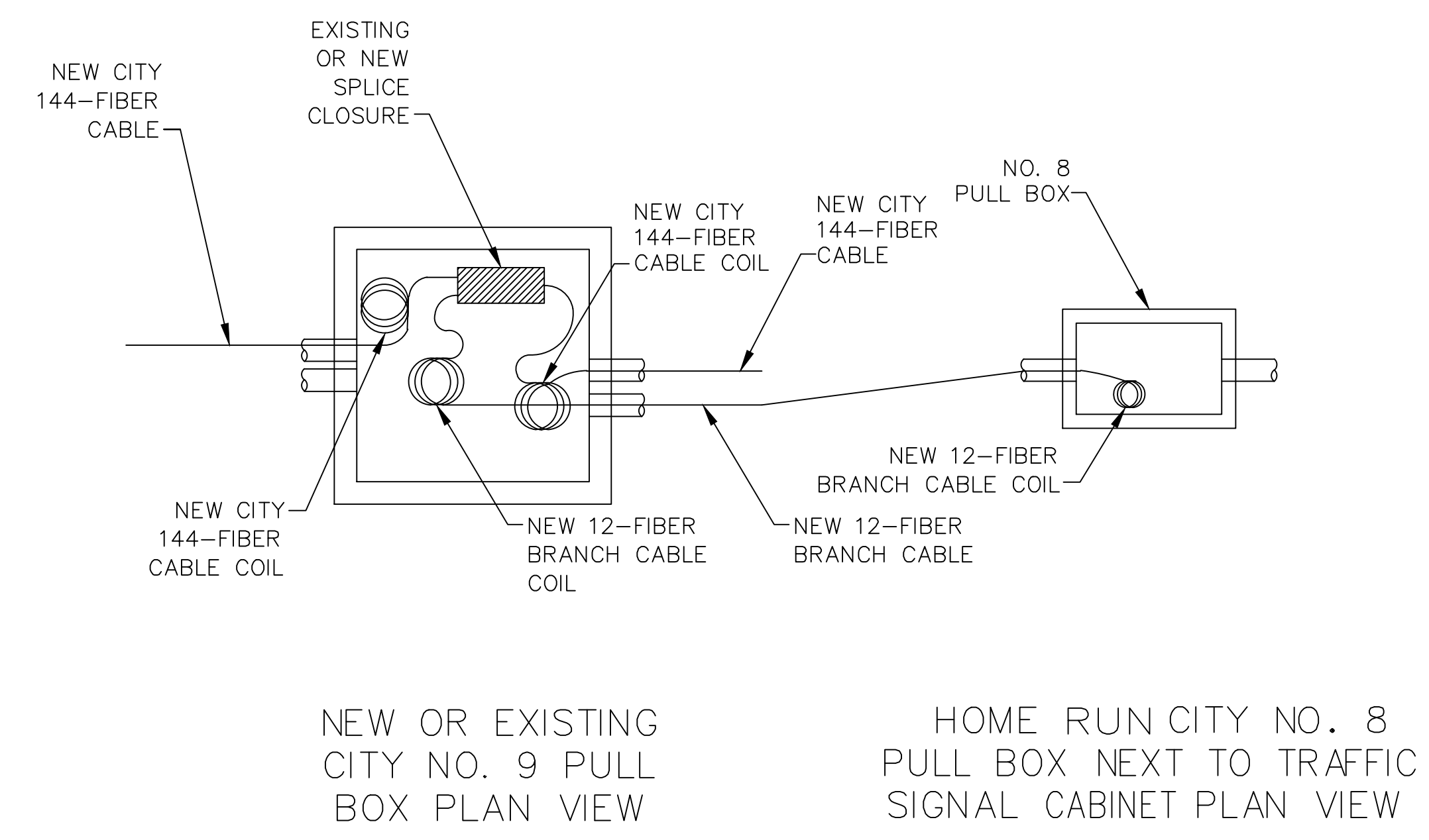
**NO. 5 PULL BOX AND NO. 8 PULL BOX
 INSTALLATION DETAIL**
CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT
**7TH STREET FIBER
 TRANSPORTATION ENHANCEMENT
 PROJECT**

DR: BJS	DES: BJS	CK: APM	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	7	37	
SCALE: AS SHOWN			7	37	

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

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29

	F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
	9	ARIZ.	ST89340660-1	8	37	
Jacobs		1501 W. FOUNTAINHEAD PKWY., SUITE 401, TEMPE, AZ 85282		PHONE: 480-866-8138 WWW.JACOBS.COM		
DESIGN: BJS	DRAWN: BJS	CHECKED: APM				



PULL BOX INSTALLATION
 TYPICAL FIBER CABLING DETAIL

- NOTES:
1. COIL REQUIRED FEET OF SLACK FOR FIBER OPTIC CABLES IN PULL BOXES AS DESIGNATED BY CONSTRUCTION NOTES .
 2. DISTANCES BETWEEN PULL BOXES VARY BY INTERSECTION AND ARE NOT SHOWN IN DETAIL.
 3. ALL COMMUNICATIONS CABLES SHALL BE TAGGED WITH CABLE IDENTIFICATION.
 4. MINIMUM BENDING RADIUS MUST BE MAINTAINED FOR FIBER OPTIC CABLE.
 5. DISTANCE BETWEEN PULL BOXES SHALL NOT EXCEED 1,500 FEET.



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.

PULL BOX FIBER CABLING DETAIL

CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

7TH STREET FIBER TRANSPORTATION ENHANCEMENT PROJECT

DR: BJS	DES: BJS	CK: APM	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	NO:	8	37
SCALE: AS SHOWN					

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29

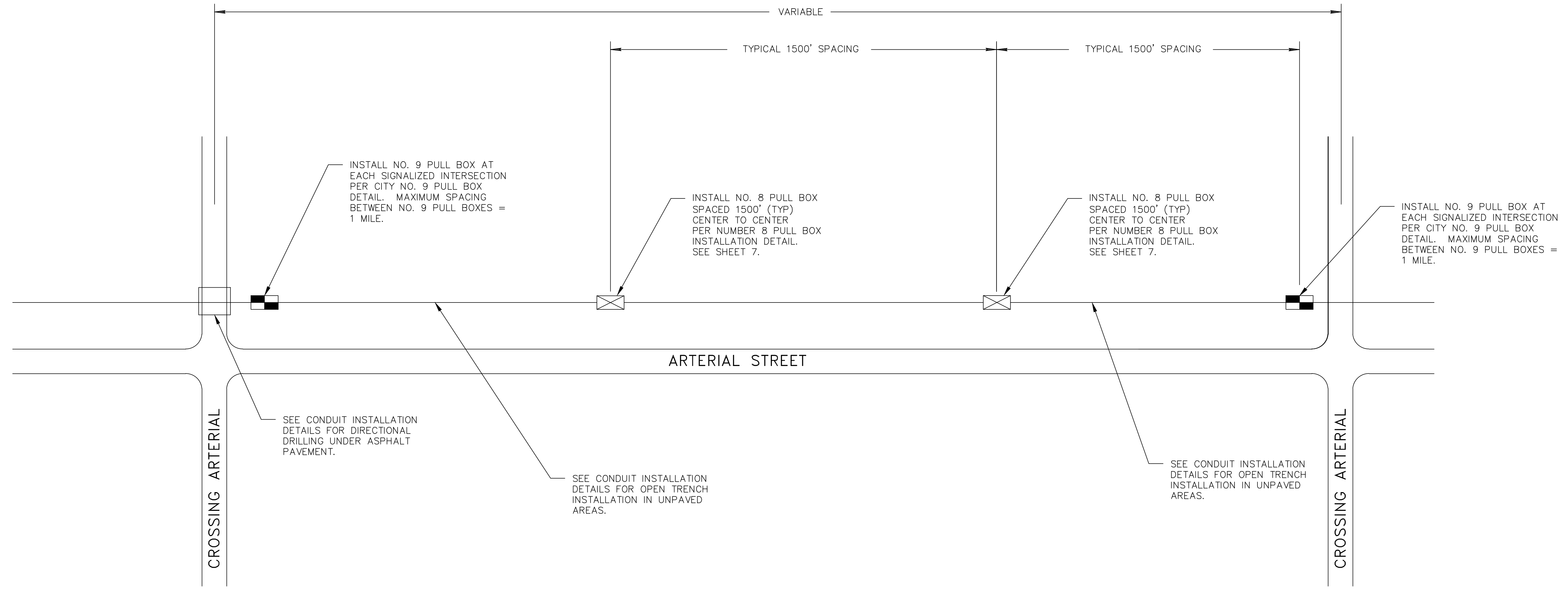


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	9	37	

Jacobs 1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282 PHONE: 480-866-6188 WWW.JACOBS.COM

DESIGN: BJS	DRAWN: BJS	CHECKED: APM
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REVISION BY CITY OF PHOENIX	DESCRIPTION	NO.	REV BY	CHK BY	DATE



TYPICAL ITS PULL BOX AND CONDUIT LOCATIONS

NOTE:
 THE CUMULATIVE SUM OF BENDS BETWEEN PULL BOXES SHALL NOT BE GREATER THAN 180°. ADD ADDITIONAL PULL BOXES AS NECESSARY TO ACHIEVE THIS REQUIREMENT WHEN MAKING FIELD ADJUSTMENTS TO THE CONDUIT ROUTE.



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.

TYPICAL ITS PULL BOX AND CONDUIT LOCATIONS
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
7TH STREET FIBER TRANSPORTATION ENHANCEMENT PROJECT

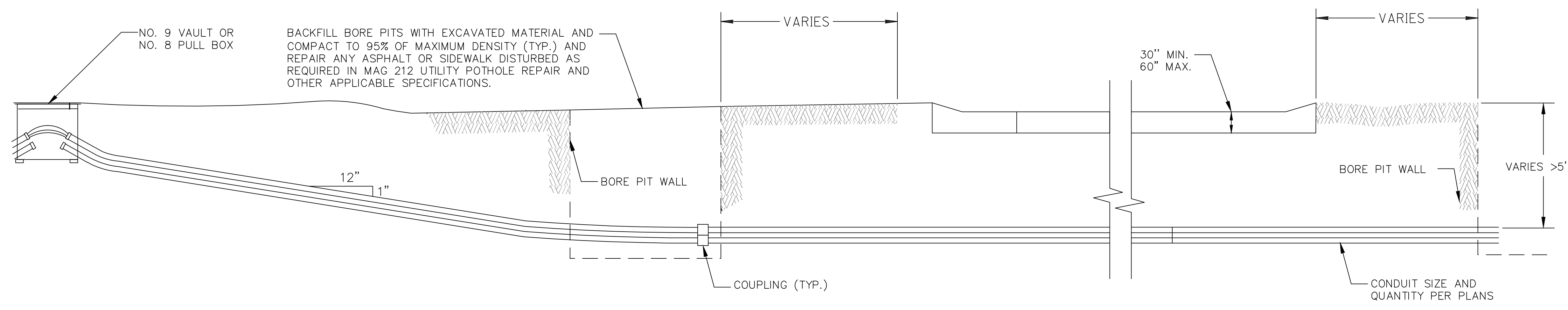
DR: BJS	DES: BJS	CK: APM	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	9	37	
SCALE: AS SHOWN					

BENCHMARK: DEER VALLEY ROAD &
7TH STREET
BCHH, ELEV = 1469.669
COP DATUM - COP NAVD 29



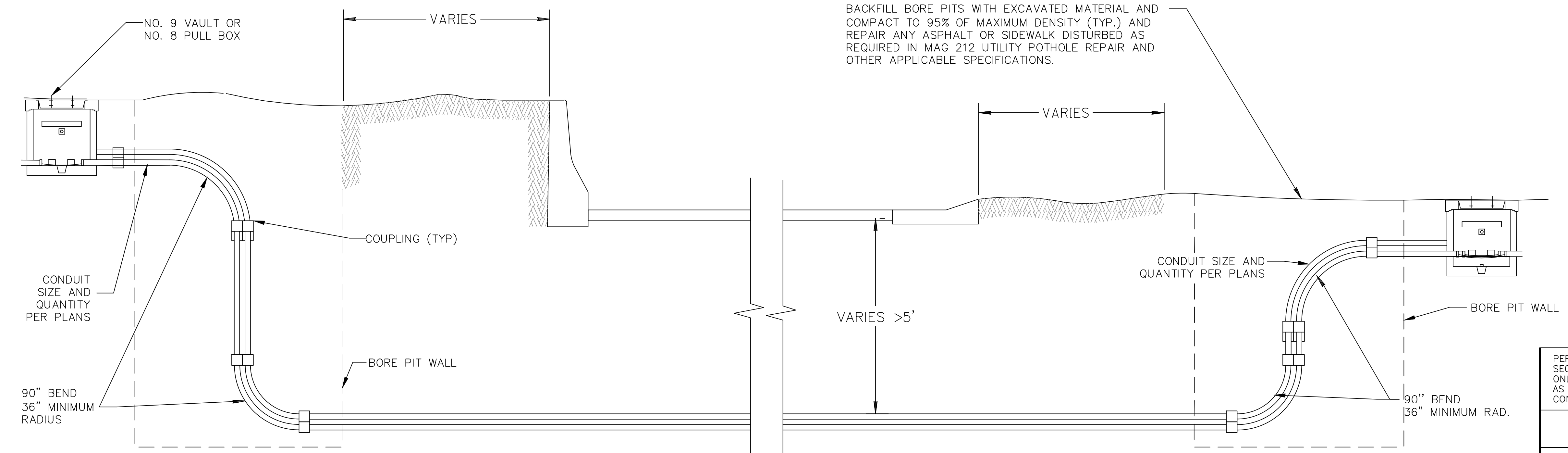
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	12	37	
Jacobs		1501 W. FOUNTAINHEAD PKWY., SUITE 401, TEMPE, AZ 85282		PHONE: 480-866-8188 WWW.JACOBS.COM	
DESIGN: BJS	DRAWN: BJS	CHECKED: APM			

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



TYPICAL BORED CONDUIT
(FOR DEPTHS UP TO 5'-0" BELOW
TOP OF PAVEMENT)

NOTE:
CONDUIT INSTALLATION SHALL MEET ALL OF THE
DIMENSIONAL REQUIREMENTS SHOWN IN THE DETAIL.



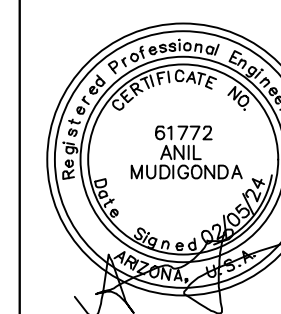
TYPICAL BORED CONDUIT
(GREATER THAN 5'-0" DEPTH
BELOW TOP OF PAVEMENT)



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.

BORED CONDUIT INSTALLATION
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
7TH STREET FIBER
TRANSPORTATION ENHANCEMENT
PROJECT

DR: BJS	DES: BJS	CK: APM	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	NO:	12	37
SCALE: AS SHOWN					



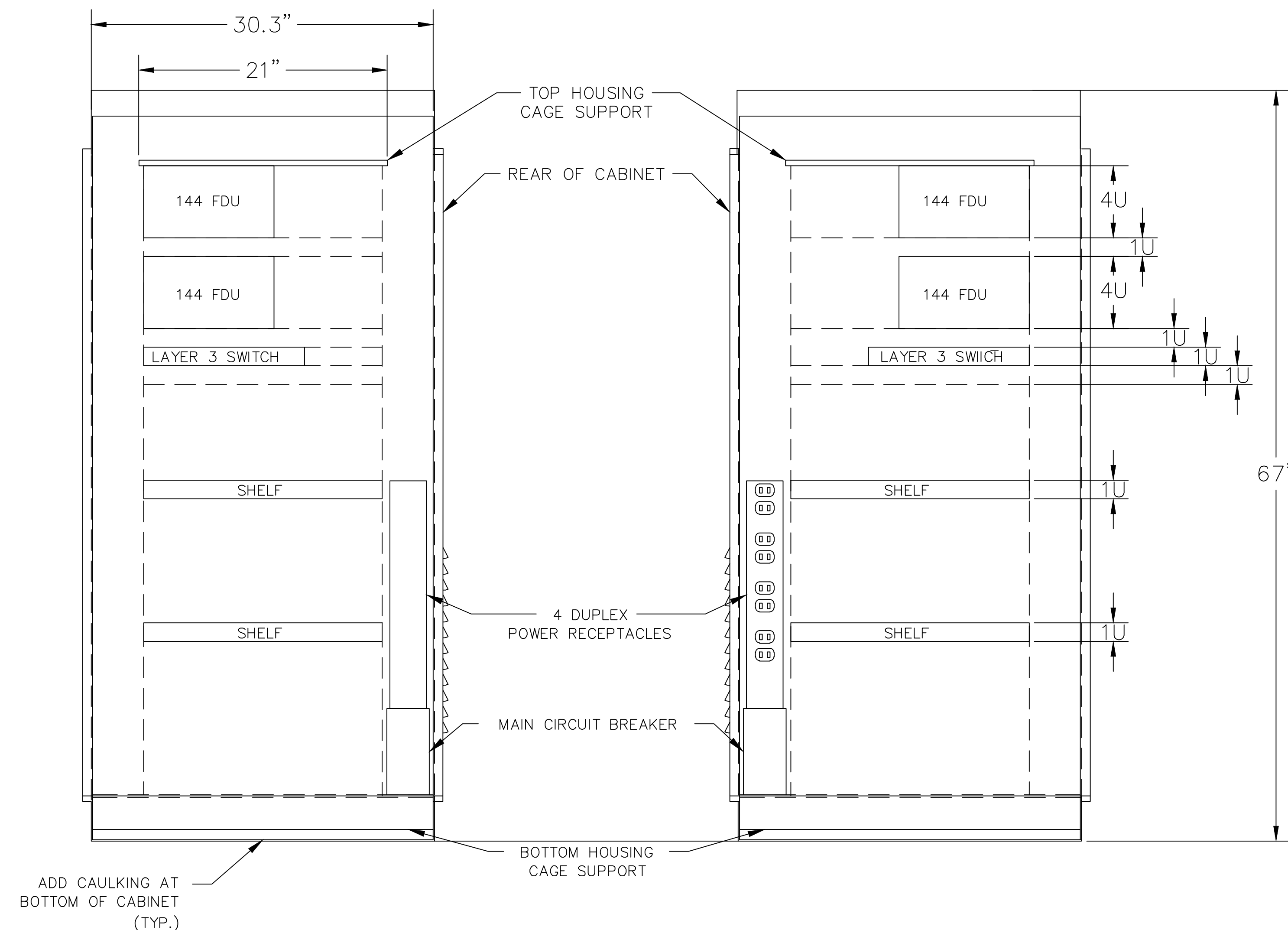
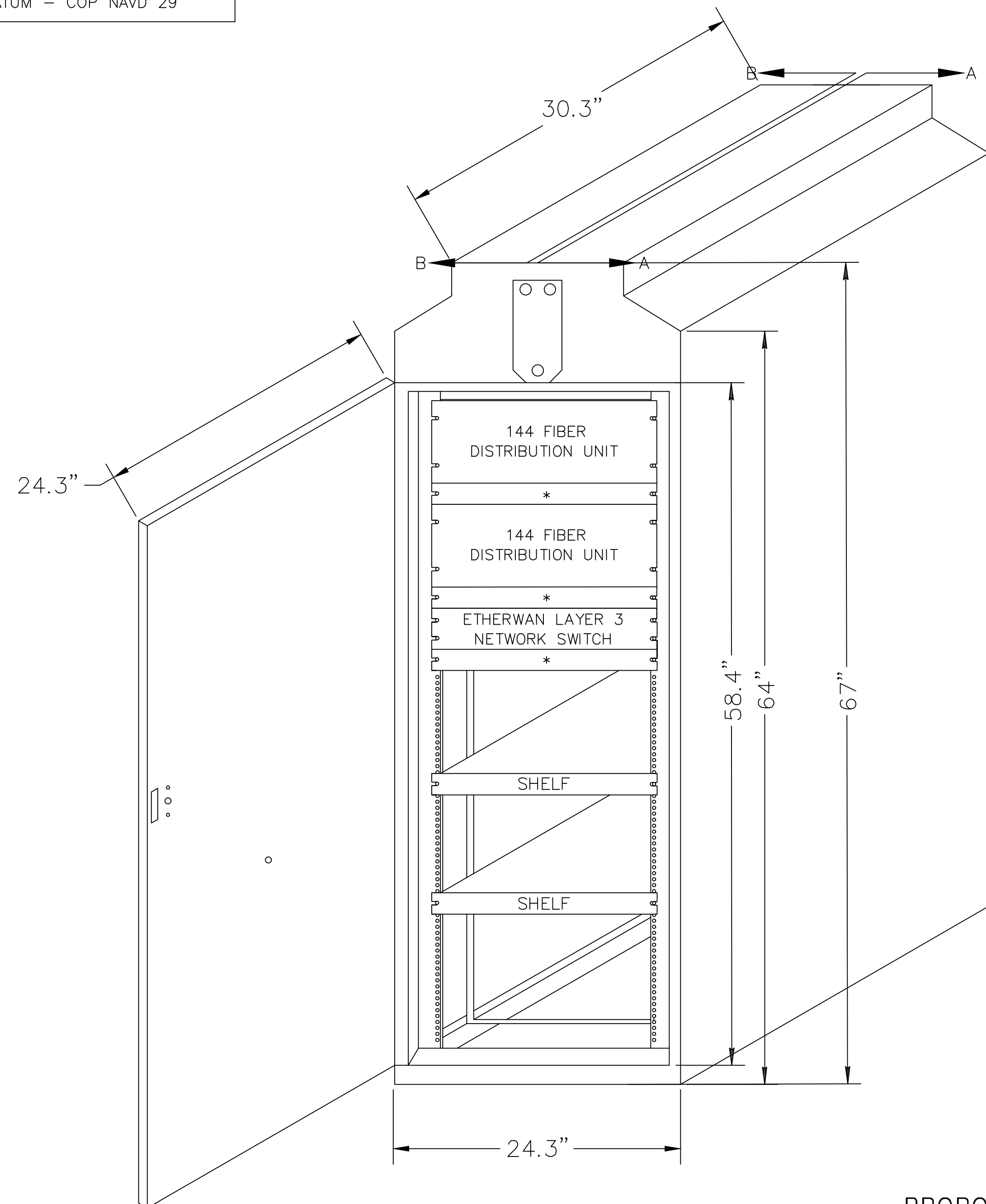
F.H.W.A. REGION 9	STATE ARIZ.	PROJECT NO. ST89340660-1	SHEET NO. 13	TOTAL SHEETS 37	AS BUILT
Jacobs		1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282	PHONE: 480-966-6108 WWW.JACOBS.COM		
DESIGN: BJS	DRAWN: BJS	CHECKED: APM			

BENCHMARK: DEER VALLEY ROAD &
7TH STREET
BCHH, ELEV = 1469.669
COP DATUM - COP NAVD 29

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

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



SECTION A-A

SECTION B-B

PROPOSED RACK MOUNTED EQUIPMENT LAYOUT

NOTES:

1. CONTRACTOR SHALL PROVIDE AND INSTALL MCCAIN INC. MODEL 332/334 CCTV EQUIPMENT CABINET, OR CITY APPROVED EQUIVALENT.
2. EXCEPT WHERE OTHERWISE NOTED, ALL DIMENSIONS SHALL HAVE A ± 0.0625 " TOLERANCE.
3. VENTILATION LOUVERS WITH FILTER/SHELL ASSEMBLY SHALL BE PROVIDED ON REAR DOOR OF CABINET.
4. HINGES FOR THE REAR CABINET DOOR SHALL BE LOCATED ON THE LEFT SIDE WHEN FACING THE REAR OF THE CABINET.
5. NUMBERS SHALL BE PLACED IN SUCH A MANNER THAT ENTIRE CABINET NUMBER IS CENTERED HORIZONTALLY ON THE CABINETS FRONT DOOR.
6. FOR FUTURE USE.
7. CABINETS SHALL BE TO EARTH GROUND PER THE NEC.
8. CAULKING IS REQUIRED ALONG INTERIOR BOTTOM EDGES OF CABINET.



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.

NODE CABINET DETAILS


CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

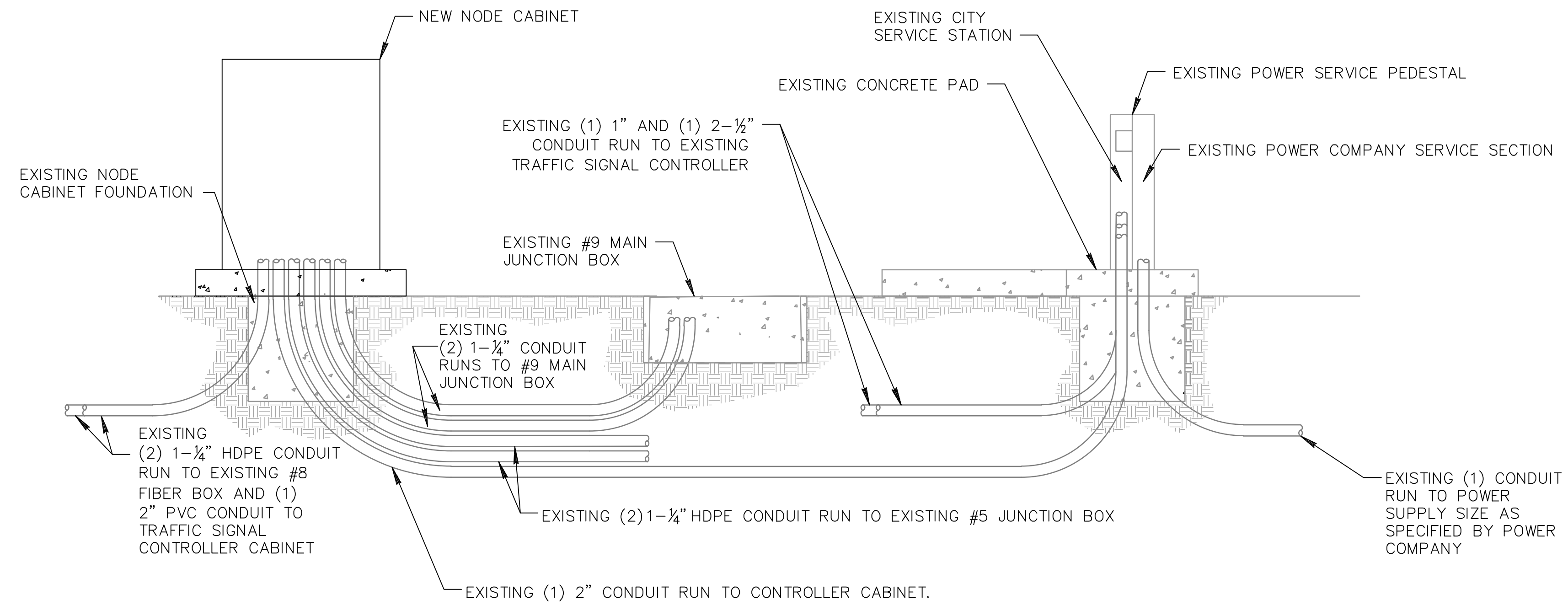
7TH STREET FIBER
TRANSPORTATION ENHANCEMENT
PROJECT

DR: BJS	DES: BJS	CK: APM	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	NO:	13	37
SCALE: AS SHOWN				13	37

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.			

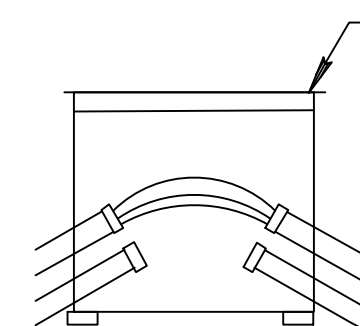
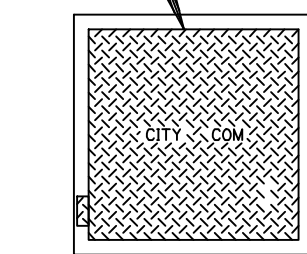
BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29

	F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
	9	ARIZ.	ST89340660-1	14	37	
Jacobs		1501 W. FOUNTAINHEAD PKWY., SUITE 401, TEMPE, AZ 85282		PHONE: 480-866-6108 WWW.JACOBS.COM		
DESIGN: BJS	DRAWN: BJS	CHECKED: APM				



NODE CABINET POWER CONDUIT RUN

#9 MAIN JUNCTION BOX



SEE FIBER CONDUIT INSTALLATION DETAILS ON PAGE 6 FOR ADDITIONAL DETAILS.

JUNCTION BOX DETAIL
 (4'-10" x 4'-10")

NOTES:

1. ALL JUNCTION BOX LIDS SHALL BE IMPRINTED TO SAY "CITY COM" AND BE A FIBERGLASS COMPOSITE RATED FOR 20,000 LBS. AND SUPPLIED WITH BOLT LOCK DOWNS. A MINIMUM DEPTH OF EIGHTEEN (18) INCHES OF THREE QUARTER (3/4) INCH ROCK SHALL BE INSTALLED UNDER EACH JUNCTION BOX.
2. ALL CONDUIT SHALL BE INSTALLED BETWEEN TWENTY FOUR (24) INCHES AND FORTY (40) INCHES BELOW FINISHED GRADE, IN STRAIGHT LINES, JUNCTION BOX TO JUNCTION BOX OR JUNCTION BOX TO POLE BASE, WITH ONE (1) 90° SWEEP ON EACH END AS SPECIFIED IN THE PLANS. ALL CONDUIT ENTERING JUNCTION BOXES SHALL BE VERTICAL WITH THE TOP OF THE CONDUIT SIX (6) INCHES BELOW THE BOTTOM OF THE JUNCTION BOX COVER. CONDUIT IN ALL FOUNDATIONS SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE CENTER OF THE FOUNDATION.



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.

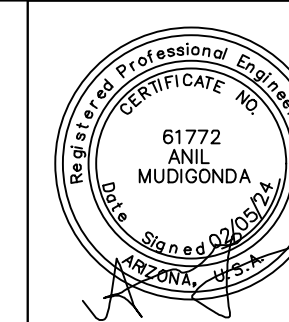
NODE CABINET FOUNDATION DETAILS

CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

7TH STREET FIBER TRANSPORTATION ENHANCEMENT PROJECT

DR: BJS	DES: BJS	CK: APM	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	NO:	14	37
SCALE: AS SHOWN					

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	15	37	

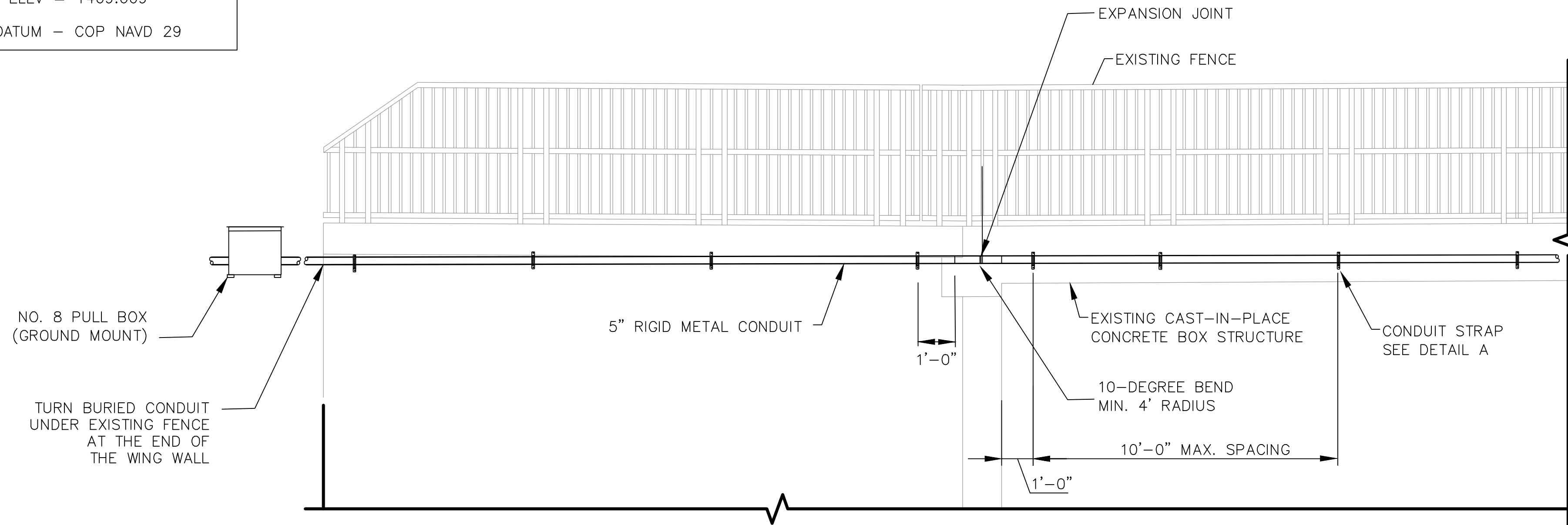
Jacobs
 1501 W. FOUNTAINHEAD PKWY., SUITE 401, TEMPE, AZ 85282
 PHONE: 480-966-8108
 WWW.JACOBS.COM

DESIGN: BJS DRAWN: BJS CHECKED: APM

NO.	DESCRIPTION	REV BY	CHKD BY	DATE

NO.	DESCRIPTION	REV BY	CHKD BY	DATE

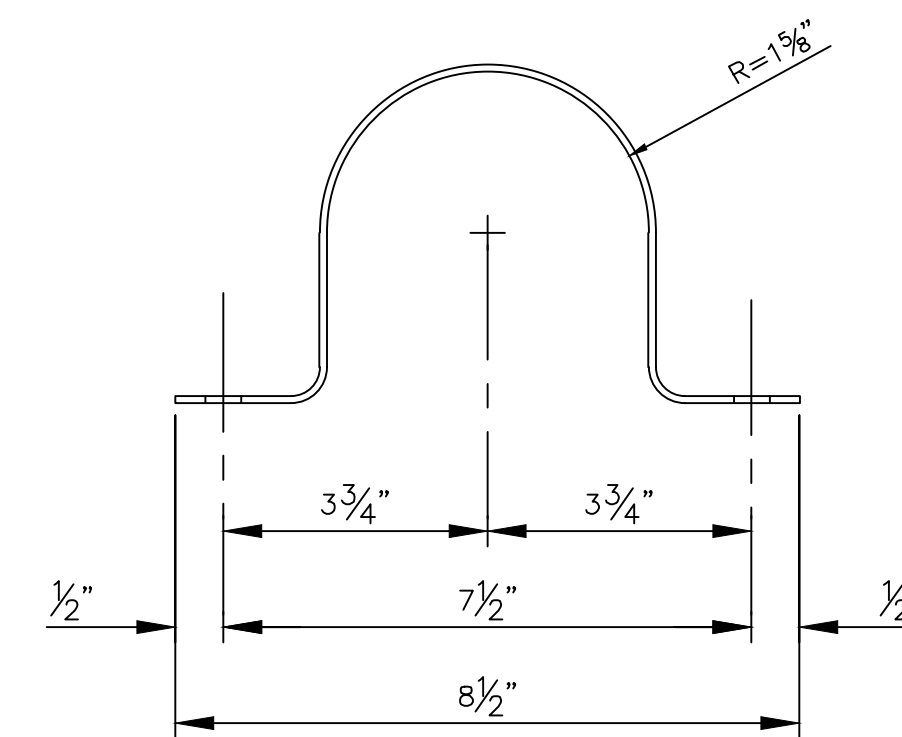
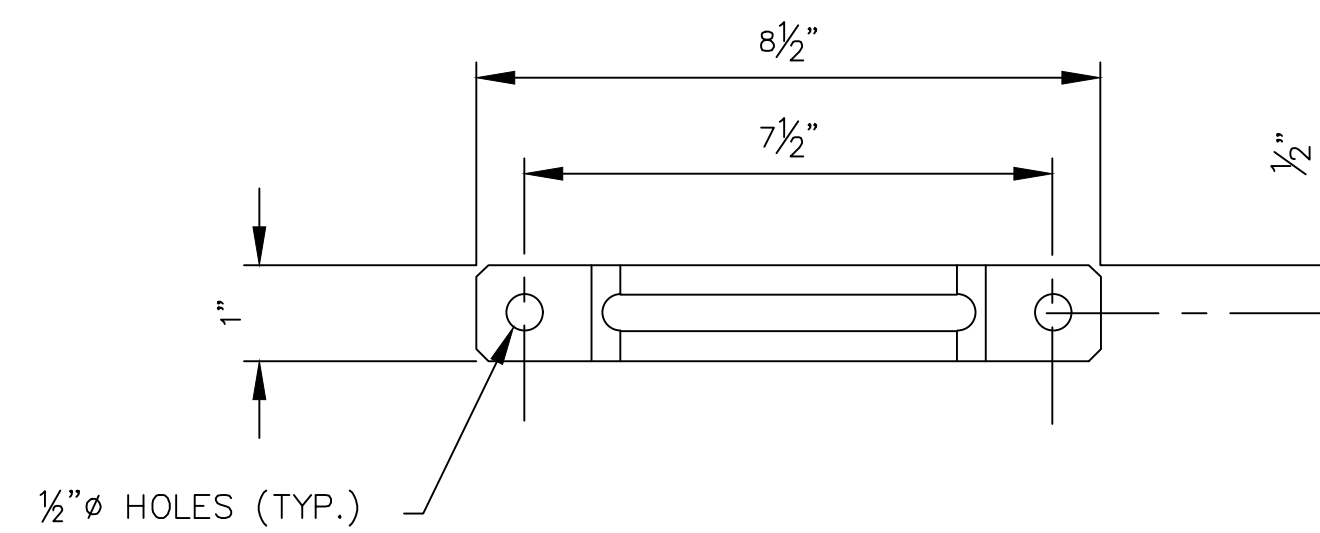
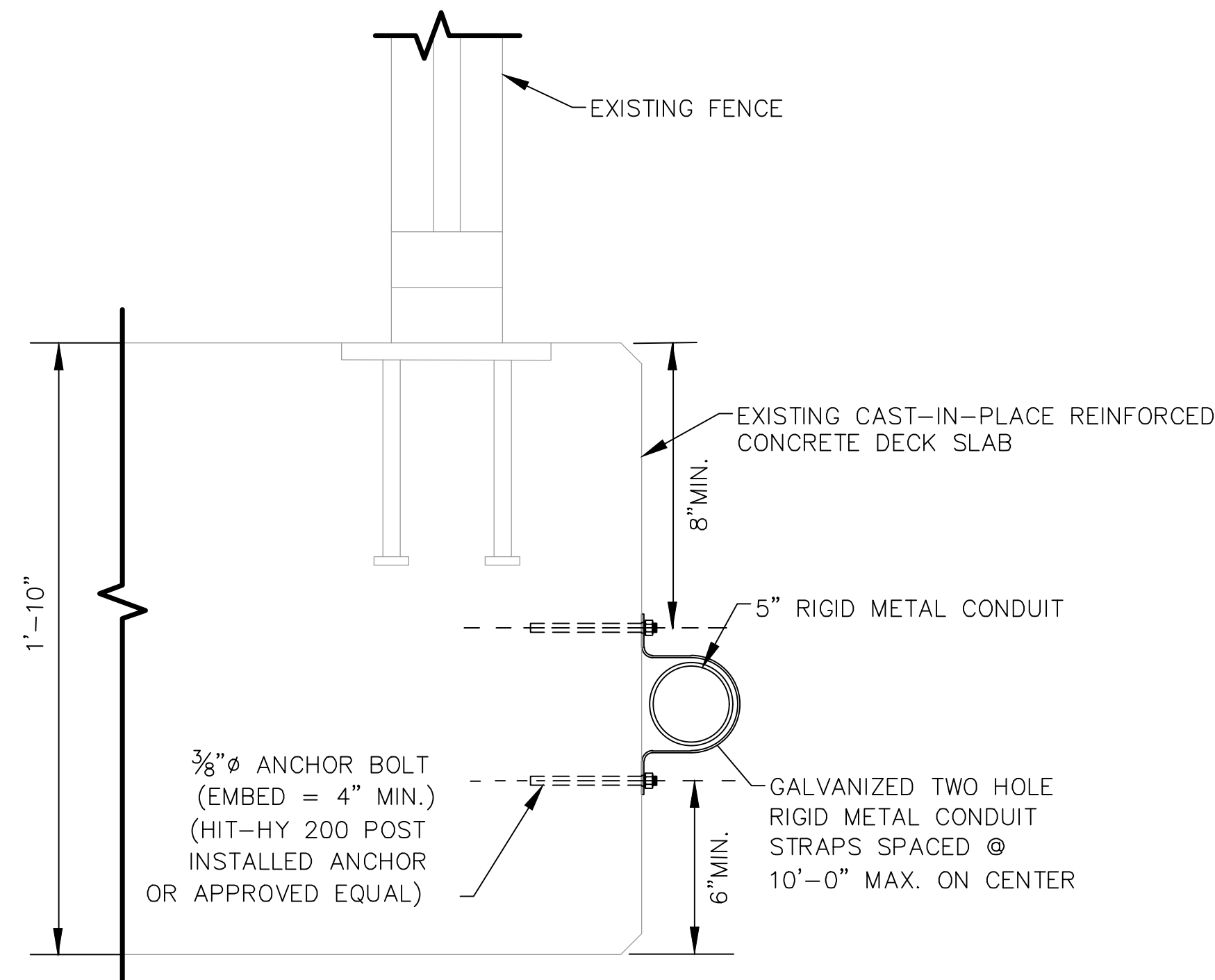
NO.	DESCRIPTION	REV BY	CHKD BY	DATE



EXISTING 7TH STREET AND CAVE CREEK WASH BRIDGE-ELEVATION
 CONDUIT ATTACHMENT DETAIL
 (NORTH WINGWALL SHOWN, SOUTH WINGWALL SIMILAR)
 STA 194+00
 (SOUTH OF DEER VALLEY ROAD)

NOTES:

- CONDUIT STRAPS AND SUPPORTS SHALL BE TYPE 316 STAINLESS STEEL.
- NUTS AND WASHERS SHALL CONFORM TO ASTM A563 AND ASTM F4356.
- CONTRACTOR SHALL SURVEY EACH STRUCTURE AND SUBMIT SHOP DRAWINGS FOR CONDUIT ATTACHMENT DETAILS, BENDS, AND EXPANSION JOINT DETAILS AND LOCATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO THE FABRICATION OF THE CONDUIT SUPPORTS.
- ALL STRUCTURES ARE DESIGNED TO ACT AS A STRUCTURAL UNIT UPON COMPLETION. CONTRACTOR SHALL DESIGN AND PROVIDE NECESSARY BRACING, TEMPORARY SUPPORTS, AND SHORING TO RESIST FORCES ON THE STRUCTURE DURING CONSTRUCTION.
- VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO STARTING WORK. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- CONTRACTOR SHALL EXERCISE EXTREME CARE DURING THE EXCAVATION AND CONSTRUCTION FOR CONDUIT PIPE SUPPORTS TO AVOID DAMAGE TO EXISTING STRUCTURES, CANAL LINING, ANCHOR BOLTS OR UTILITIES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL MEANS AND METHODS REQUIRED TO FACILITATE CONSTRUCTION OF THE WORK AND ENSURING THE SAFETY, STABILITY AND INTEGRITY OF ADJACENT STRUCTURE AND FACILITIES.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION OF PROJECT. UTILITY INFORMATION SHOWN ON THE PLANS MAY NOT BE COMPLETE OR ACCURATELY DEPICT THE LOCATION OF THE UTILITIES SHOWN. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL EXISTING, NEW, RELOCATED AND ABANDONED UTILITIES WITH THE PROJECT PLANS AND NOTIFY RESPECTIVE OWNERS BEFORE COMMENCING THE WORK OF EXCAVATION, INCLUDING ANY DRILLING OR PILING REQUIRED FOR TEMPORARY SHORING. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED PRIOR TO PROCEEDING WITH THE WORK.
- ENSURE HANGERS ARE CAPABLE OF SUPPORTING 1000-LBS LOAD AND THE MAXIMUM HANGER SPACING IS 10-FT.
- ENSURE CONDUIT LENGTHS ARE SELECTED SO THAT COUPLINGS DO NOT COINCIDE WITH HANGAR LOCATIONS.
- PROVIDE CONDUIT EXPANSION JOINTS NEAR EACH ABUTMENT.



DETAIL A

CONDUIT STRAP PLAN AND ELEVATION DETAILS (N.T.S.)



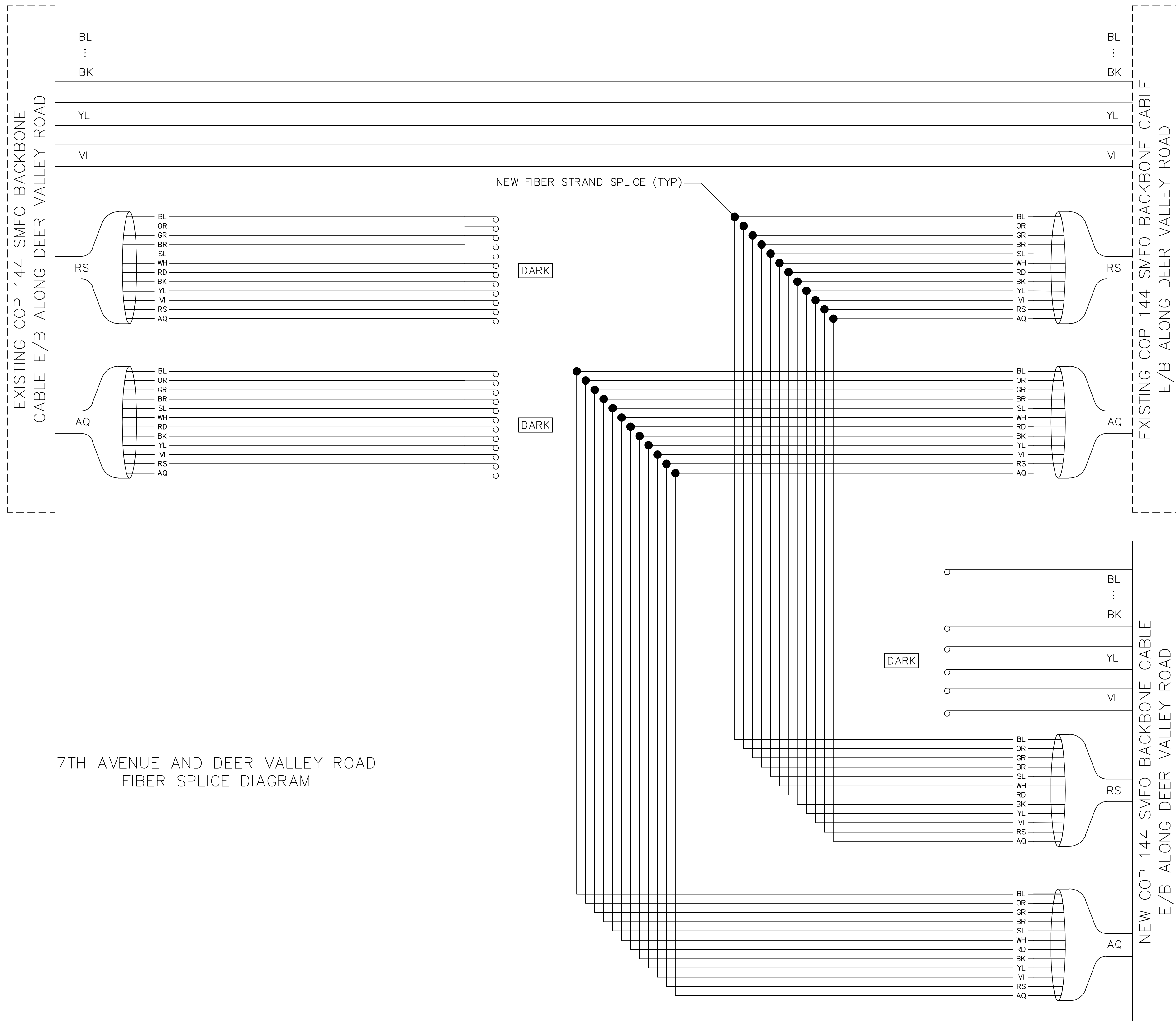
PER THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

CANAL CROSSING CONDUIT ATTACHMENT DETAIL
 CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT
 7TH STREET FIBER TRANSPORTATION ENHANCEMENT PROJECT

DR:	DES:	CK:	SHEET	TOTAL	AS
BJS	BJS	APM	NO.	SHEETS	BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	NO.	SHEETS	BUILT
SCALE: AS SHOWN				15	37

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.			

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29



	F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
	9	ARIZ.	ST89340660-1	17	37	
Jacobs		1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282		PHONE: 480-866-8108 WWW.JACOBS.COM		
DESIGN: BJS	DRAWN: BJS	CHECKED: APM				



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.

7TH AVENUE & DEER VALLEY ROAD
 FIBER EQUIPMENT CONNECTION DETAIL
 CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

7TH STREET FIBER
 TRANSPORTATION ENHANCEMENT
 PROJECT

DR: BJS	DES: BJS	CK: APM	SHEET NO.	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	NO.	17	37
SCALE: AS SHOWN					

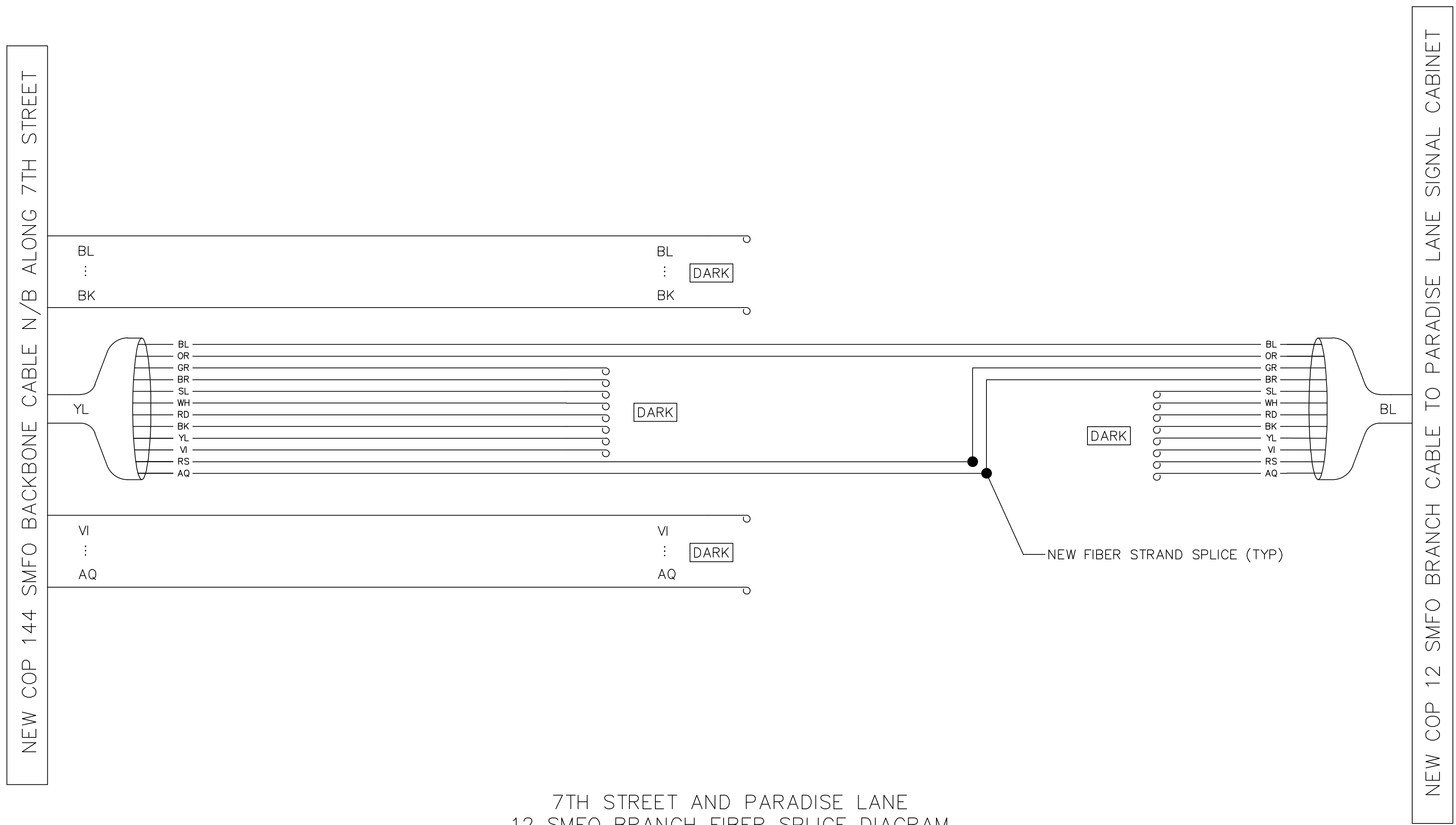
BENCHMARK: DEER VALLEY ROAD &
7TH STREET
BCHH, ELEV = 1469.669
COP DATUM - COP NAVD 29

F.H.W.A. REGION 9	STATE ARIZ.	PROJECT NO. ST89340660-1	SHEET NO. 18	TOTAL SHEETS 37	AS BUILT
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Jacobs 1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282 PHONE: 480-966-6108 WWW.JACOBS.COM

DESIGN: BJS DRAWN: BJS CHECKED: APM

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



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.

**7TH STREET & PARADISE LANE
FIBER EQUIPMENT CONNECTION DETAIL**
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

**7TH STREET FIBER
TRANSPORTATION ENHANCEMENT
PROJECT**

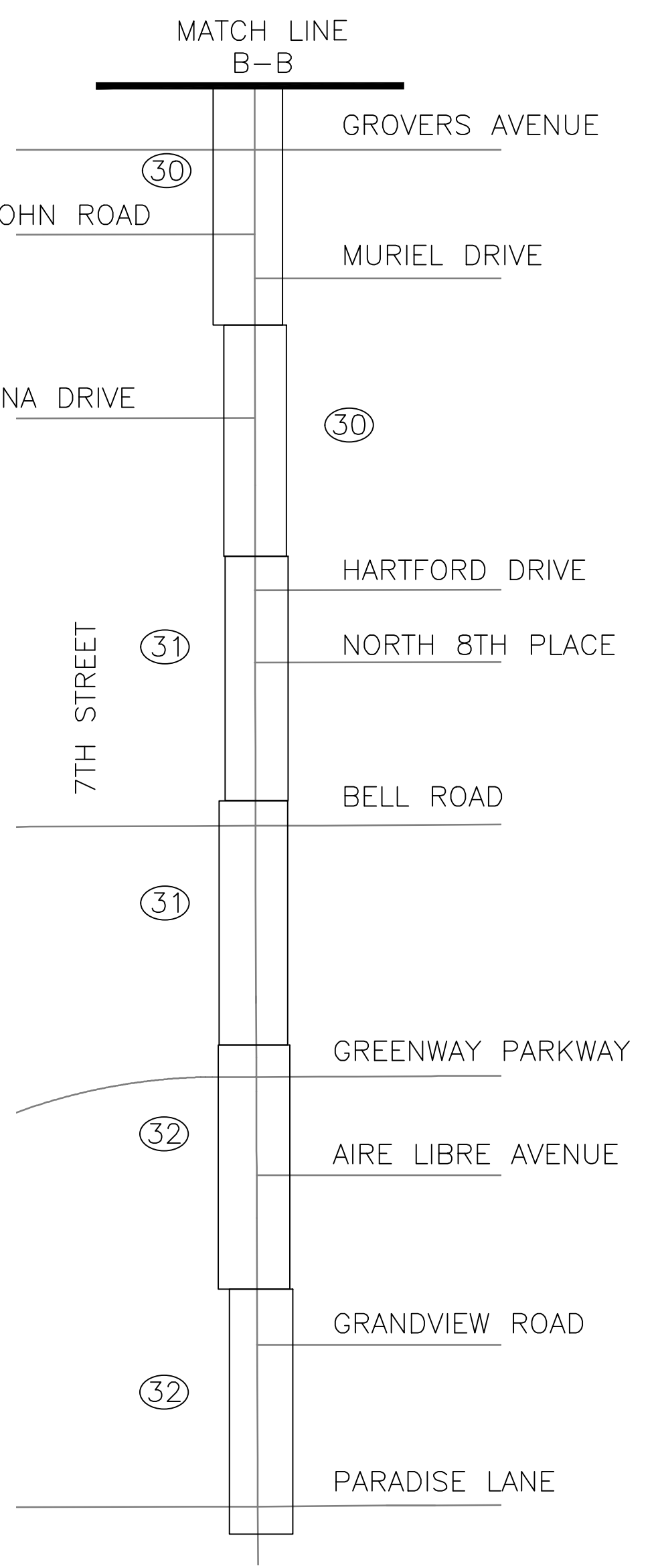
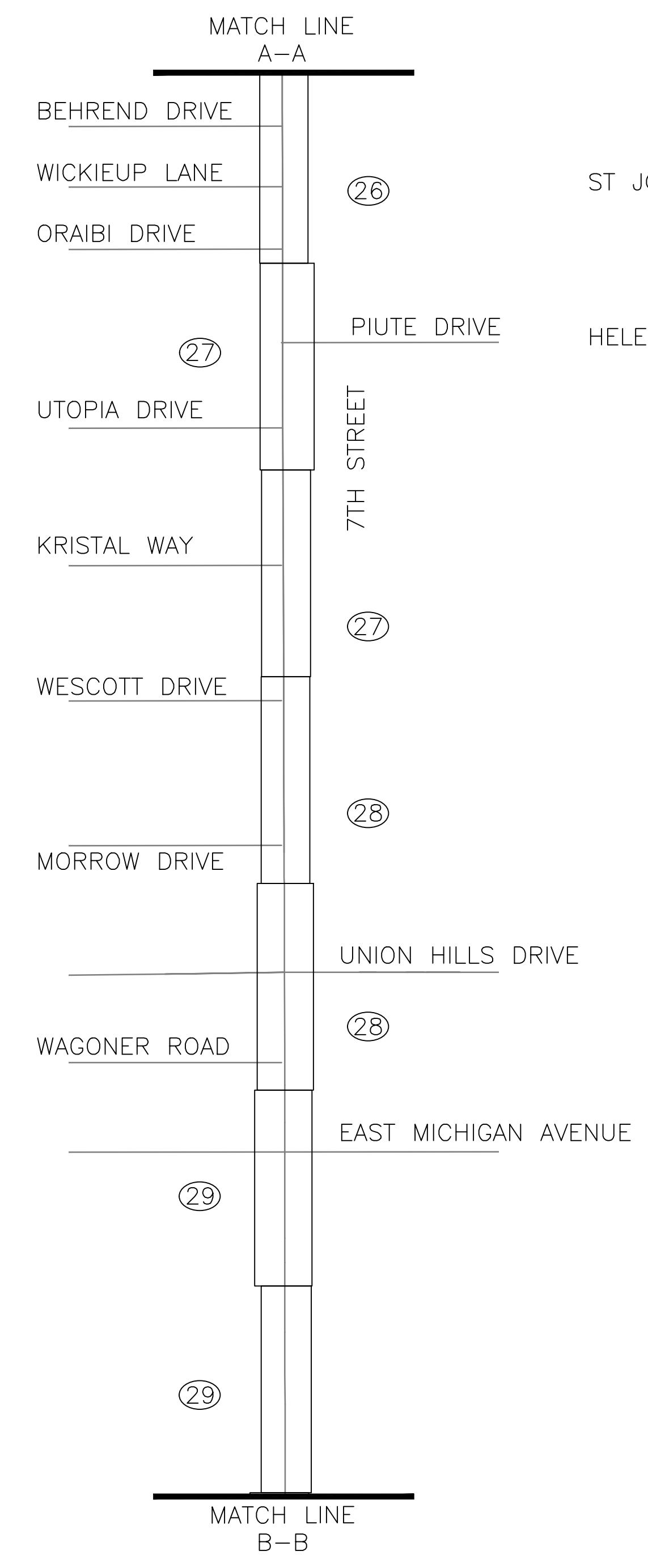
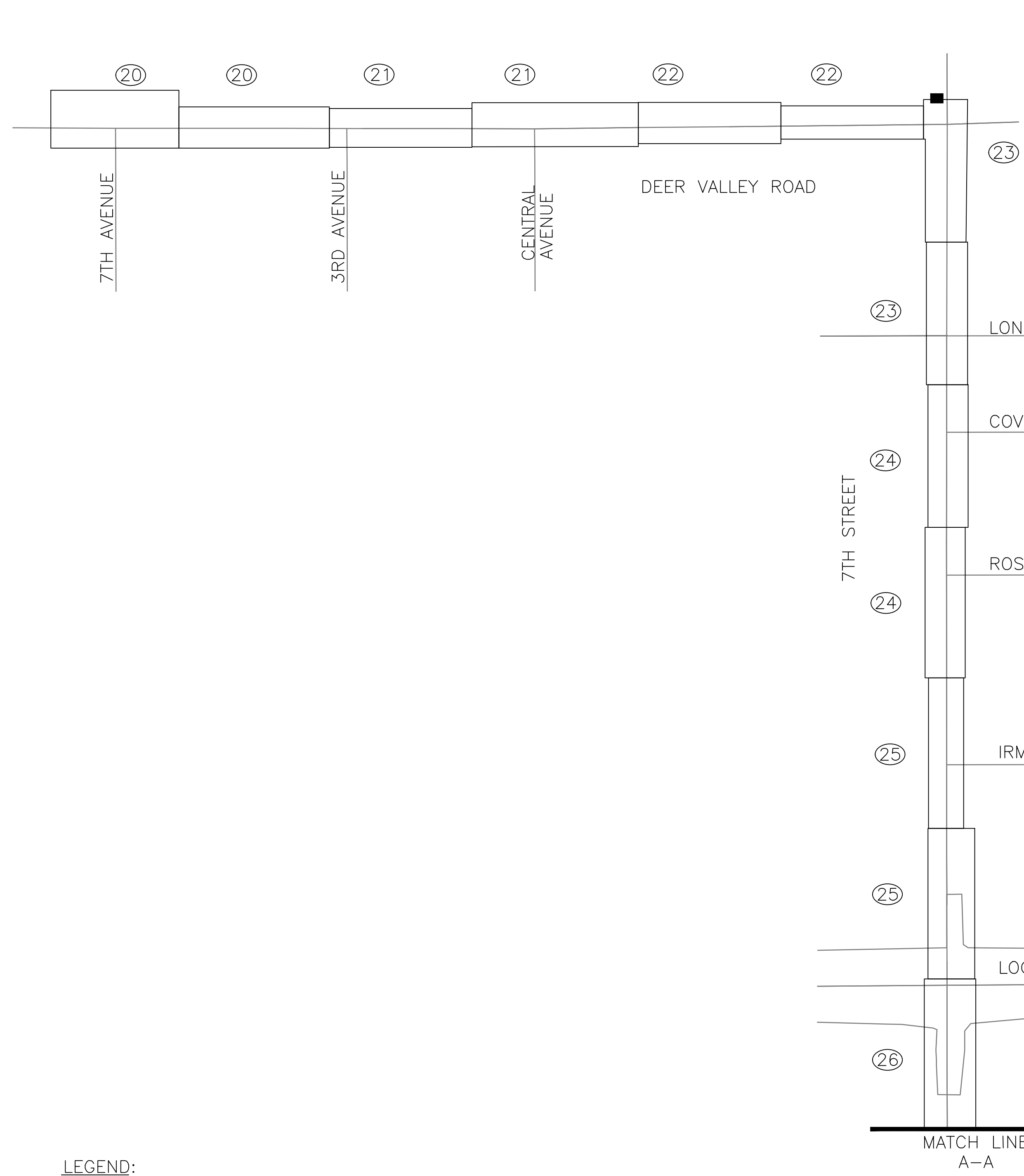
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DATE: 02/24	DATE: 02/24	DATE: 02/24	NO.	18	37
SCALE: AS SHOWN					



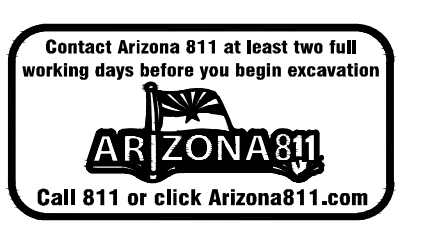
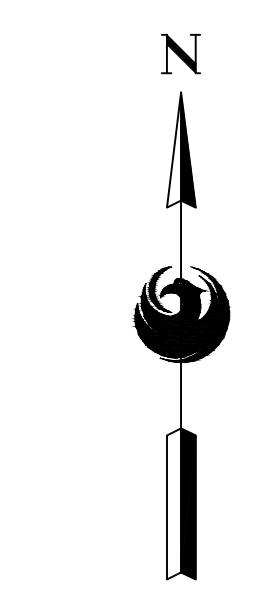
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	19	37	
Jacobs		1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282	PHONE: 480-966-8138 WWW.JACOBS.COM		
DESIGN: BJS	DRAWN: BJS	CHECKED: APM			

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29

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



LEGEND:
 (XX) SHEET NUMBER
 ■ NODE CABINET
 □ SHEET CUT



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.

KEY MAP
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT
7TH STREET FIBER
TRANSPORTATION ENHANCEMENT
PROJECT

DR: BJS	DES: BJS	CK: APM	SHEET NO.	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	NO:	19	37
SCALE: AS SHOWN					

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29

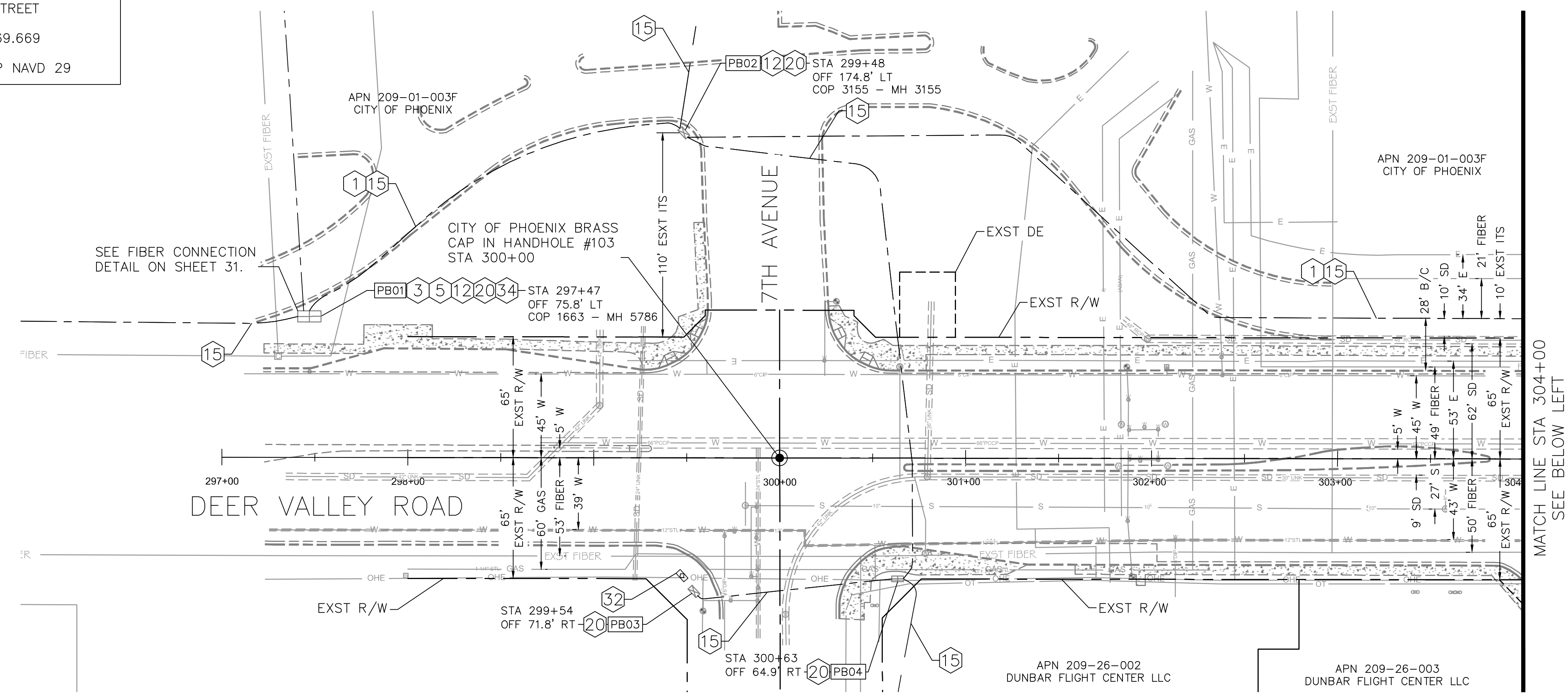


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	20	37	
Jacobs		1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282	PHONE: 480-866-6188 WWW.JACOBS.COM		
DESIGN: BJS	DRAWN: BJS	CHECKED: APM			

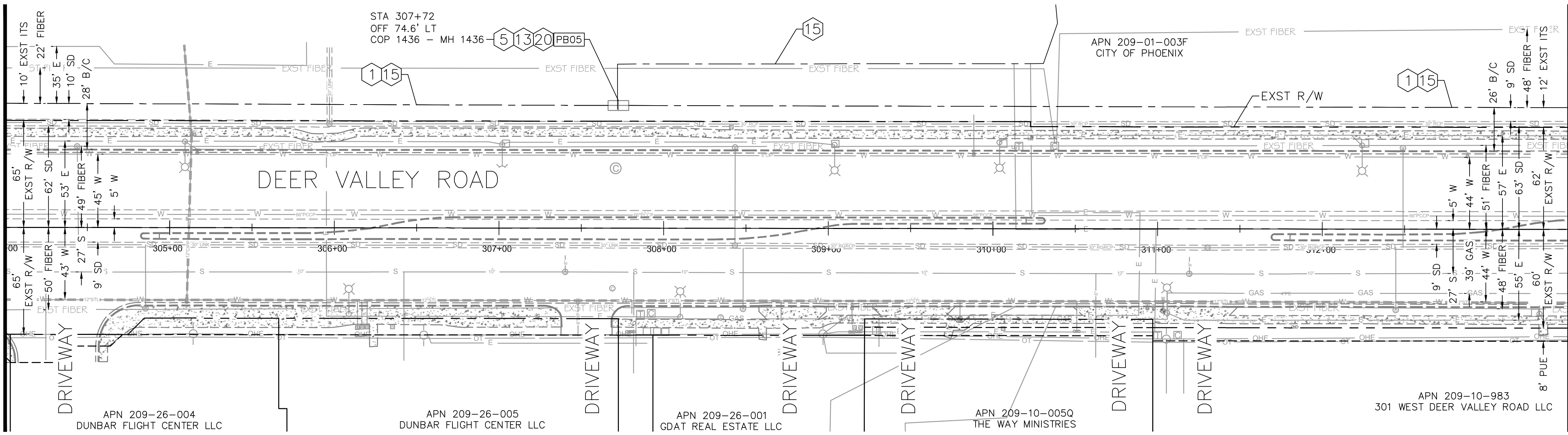
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				

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

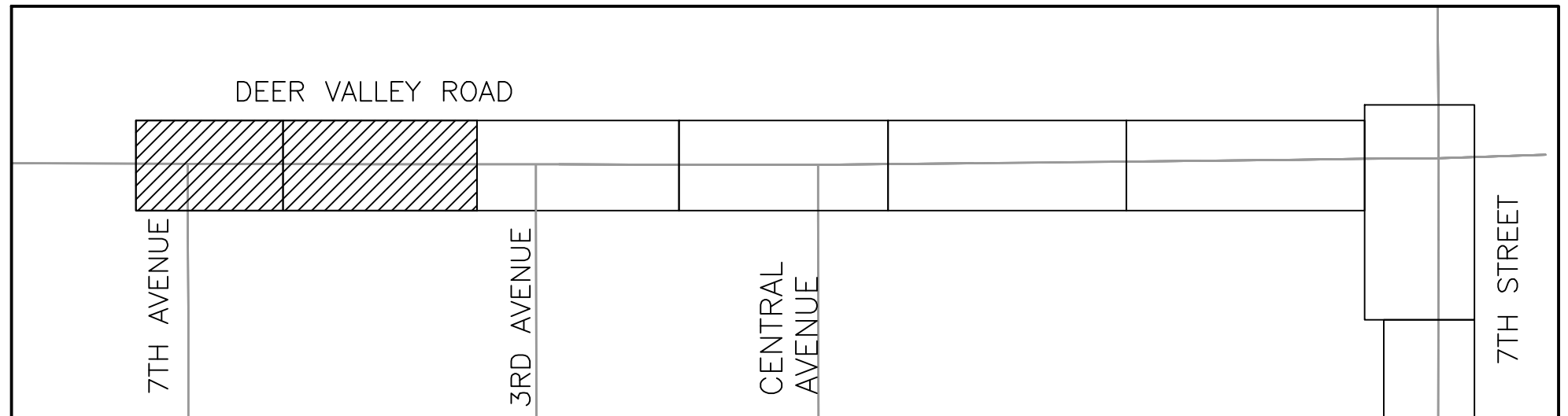
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				



MATCH LINE STA 304+00
SEE ABOVE RIGHT

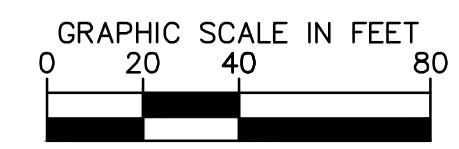


MATCH LINE STA 313+50
SEE SHEET 19



DEER VALLEY ROAD KEY MAP

CONSTRUCTION NOTES				
NO	DESCRIPTION	UNIT	QTY	
1	INSTALL SMFO (144) CABLE IN CONDUIT PER INSTALLATION DETAILS.	LF	1700	
3	COIL 50 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.	LF	50	
5	COIL 100 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.	LF	200	
12	EXISTING SMFO CABLE IN PULL BOX. PROTECT IN PLACE.	-	-	
13	COORDINATE WITH CITY OF PHOENIX ITS STAFF, BENJAMIN VOZZA AT BENJAMIN.VOZZA@PHOENIX.GOV FOR AIRPORT ACCESS.	-	-	
15	EXISTING CONDUIT. PROTECT IN PLACE.	-	-	
20	EXISTING PULL BOX. PROTECT IN PLACE.	-	-	
32	EXISTING CABINET. PROTECT IN PLACE.	-	-	
34	FUSION SPLICE NEW SMFO (144) CABLE TO DESIGNATED FIBER OF EXISTING SMFO (144) CABLE IN EXISTING SPLICE ENCLOSURE AS SHOWN IN FIBER SPLICE DETAILS.	EA	1	



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.

DEER VALLEY ROAD PLAN SHEET
 PROJECT BEGIN TO STA 313+50
 CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

7TH STREET FIBER
 TRANSPORTATION ENHANCEMENT
 PROJECT

DR: BJS	DES: BJS	CK: APM	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	NO:	20	37
SCALE: AS SHOWN					

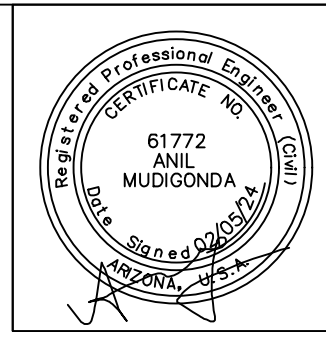
PULL BOX LOCATION SCHEDULE

PULL BOX	STATION	OFFSET
PB01	297+47	75.8' LT
PB02	299+48	174.8' LT
PB03	299+54	71.8' RT
PB04	300+63	64.9' RT
PB05	307+72	74.6' LT

NOTE: REFER TO 'BURIED CONDUIT INSTALLATION AROUND OR UNDER OBSTRUCTION' NOTES 2 AND 3 FOR CONDUIT REQUIRED CLEARANCES ON PLAN SHEET 11.

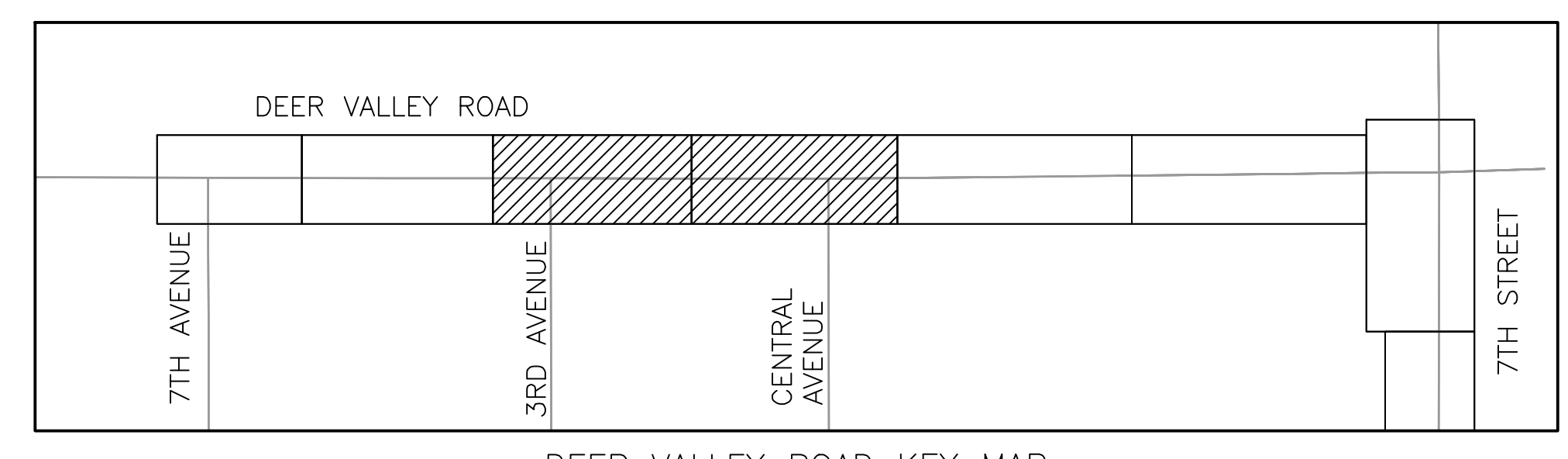
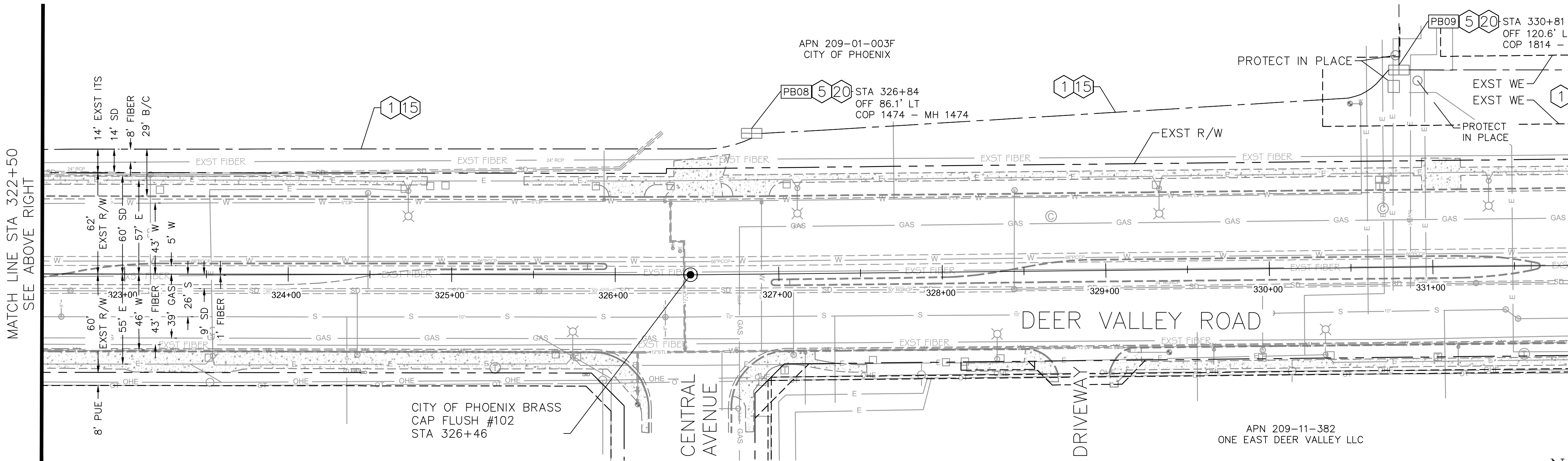
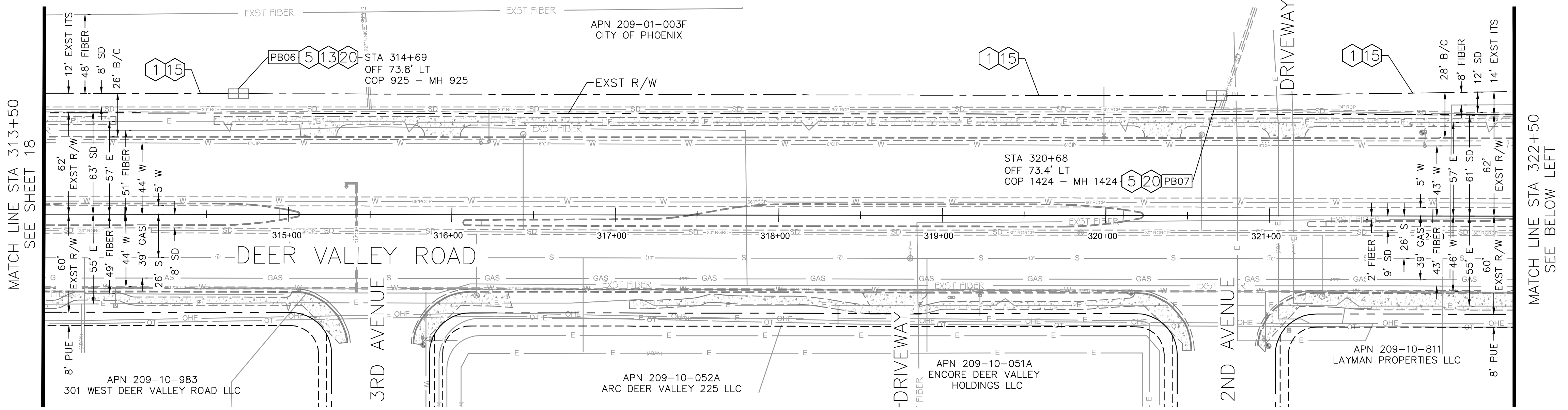
REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CHK BY	DATE

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	21	37	
Jacobs		1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282	PHONE: 480-866-8188 WWW.JACOBS.COM		
DESIGN: BJS	DRAWN: BJS	CHECKED: APM			

CONSTRUCTION NOTES				
NO	DESCRIPTION	UNIT	QTY	
1	INSTALL SMFO (144) CABLE IN CONDUIT PER INSTALLATION DETAILS.	LF	1970	
5	COIL 100 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.	LF	400	
13	COORDINATE WITH CITY OF PHOENIX ITD STAFF, BENJAMIN VOZZA AT BENJAMIN.VOZZA@PHOENIX.GOV FOR AIRPORT ACCESS	-	-	
15	EXISTING CONDUIT. PROTECT IN PLACE.	-	-	
20	EXISTING PULL BOX. PROTECT IN PLACE.	-	-	

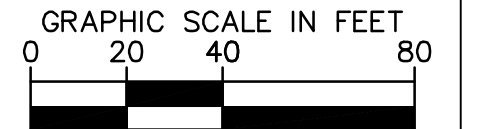


DEER VALLEY ROAD KEY MAP

PULL BOX LOCATION SCHEDULE

PULL BOX	STATION	OFFSET
PB06	314+69	73.8' LT
PB07	320+68	73.4' LT
PB08	326+84	86.1' LT
PB09	330+81	120.6' LT

NOTE: REFER TO 'BURIED CONDUIT INSTALLATION AROUND OR UNDER OBSTRUCTION' NOTES 2 AND 3 FOR CONDUIT REQUIRED CLEARANCES ON PLAN SHEET 11.



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.

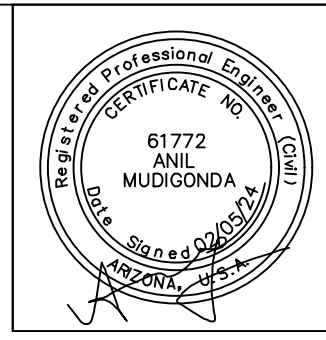
DEER VALLEY ROAD PLAN SHEET
 STA 313+50 TO STA 333+00
 CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

7TH STREET FIBER
 TRANSPORTATION ENHANCEMENT
 PROJECT

DR: BJS	DES: BJS	CK: APM	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	21	37	
SCALE: AS SHOWN			21	37	

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

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29

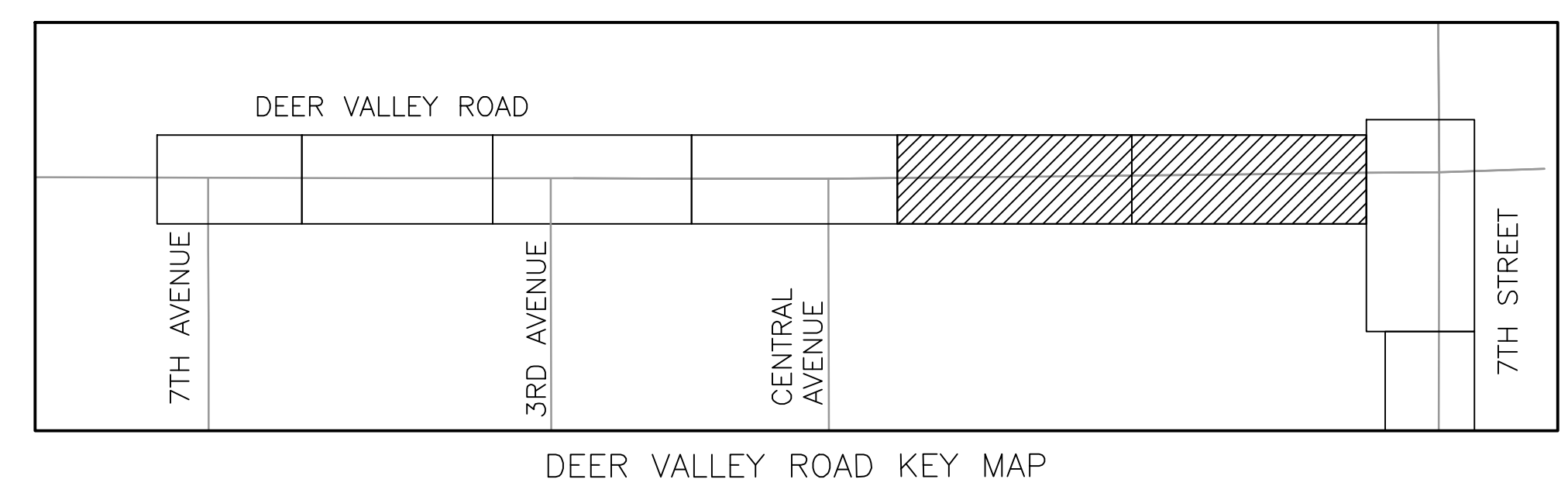
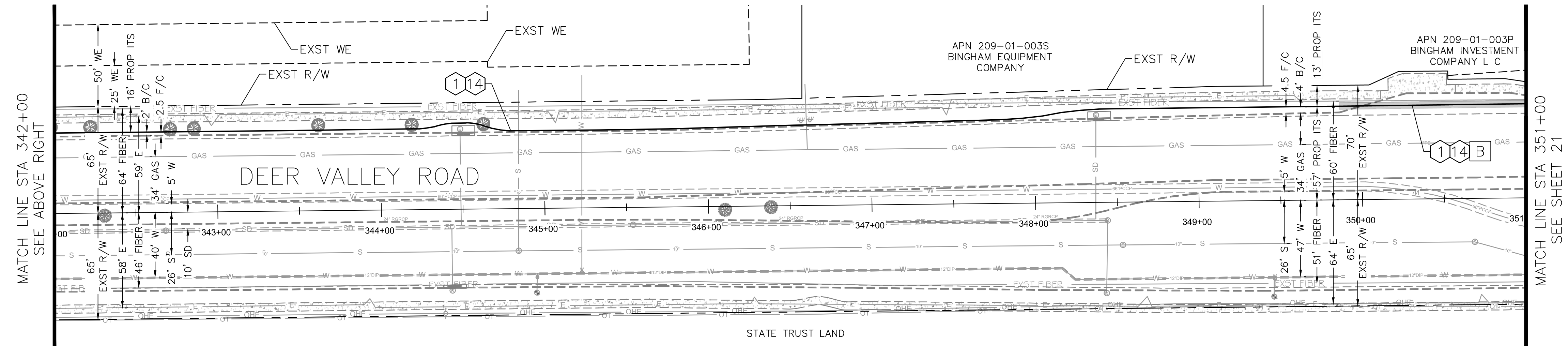
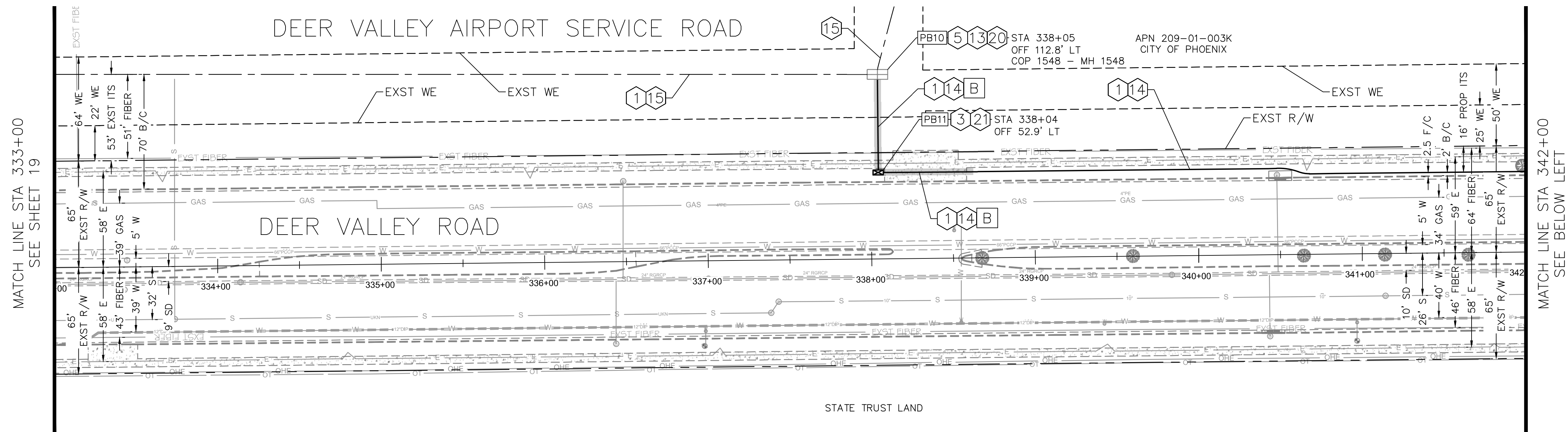


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	22	37	

Jacobs 1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282 PHONE: 480-966-8188 WWW.JACOBS.COM

DESIGN: BJS DRAWN: BJS CHECKED: APM

CONSTRUCTION NOTES				
1	INSTALL SMFO (144) CABLE IN CONDUIT PER INSTALLATION DETAILS	LF	1870	
3	COIL 50 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.	LF	50	
5	COIL 100 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.	LF	100	
13	COORDINATE WITH CITY OF PHOENIX ITD STAFF, BENJAMIN VOZZA AT BENJAMIN.VOZZA@PHOENIX.GOV FOR AIRPORT ACCESS.	-	-	
14	INSTALL NEW 2-1.25" CITY OF PHOENIX CONDUITS PER INSTALLATION DETAILS. SEE DETAIL ON SHEET 10.	LF	1365	
15	EXISTING CONDUIT. PROTECT IN PLACE.	-	-	
20	EXISTING PULL BOX. PROTECT IN PLACE.	-	-	
21	INSTALL NEW CITY OF PHOENIX NO. 8 PULL BOX. SEE DETAIL ON SHEET 7.	EA	1	



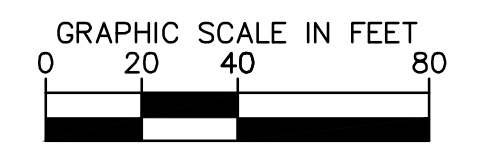
TRENCH TYPES LEGEND

[B] DIRECTIONAL BORE CONDUIT.

PULL BOX LOCATION SCHEDULE

PULL BOX	STATION	OFFSET
PB10	338+05	112.8' LT
PB11	338+04	52.9' LT

NOTE: REFER TO 'BURIED CONDUIT INSTALLATION AROUND OR UNDER OBSTRUCTION' NOTES 2 AND 3 FOR CONDUIT REQUIRED CLEARANCES ON PLAN SHEET 11.

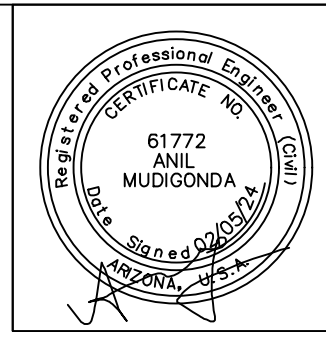


PER THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

DEER VALLEY ROAD PLAN SHEET
 STA 333+00 TO STA 351+00
 CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

7TH STREET FIBER
 TRANSPORTATION ENHANCEMENT
 PROJECT

DR: BJS	DES: BJS	CK: APM	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	22	37	
SCALE: AS SHOWN			22	37	



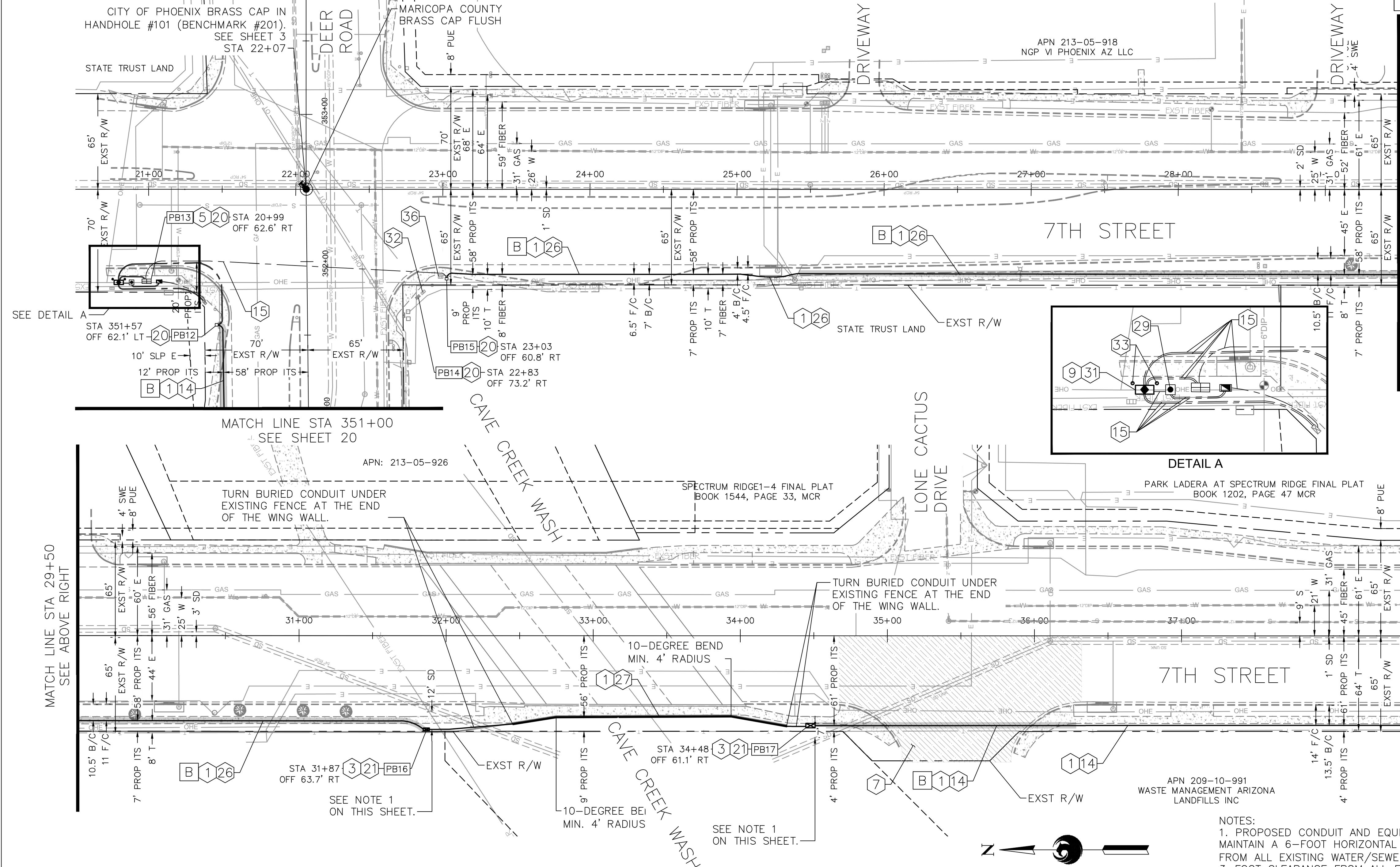
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	23	37	

Jacobs 1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282 PHONE: 480-966-8188 WWW.JACOBS.COM

DESIGN: BJS DRAWN: BJS CHECKED: APM

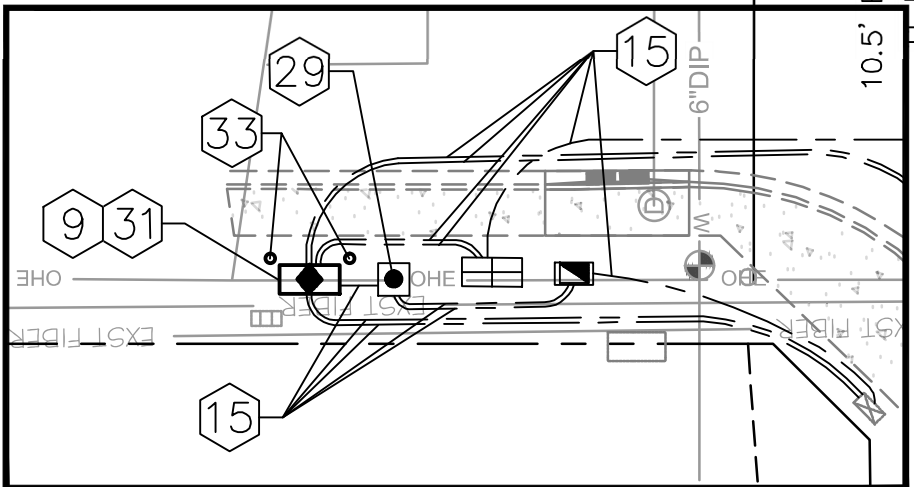
BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29

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



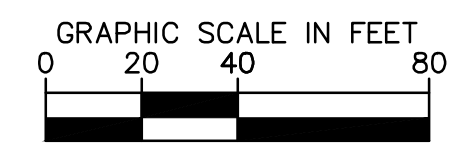
MATCH LINE STA 29+50
SEE BELOW LEFT

MATCH LINE STA 38+50
SEE SHEET 22



MATCH LINE STA 351+00
SEE SHEET 20

MATCH LINE STA 29+50
SEE ABOVE RIGHT



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.

7TH STREET PLAN SHEET
 STA 351+00; STA 20+50 TO STA 38+50
CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

7TH STREET FIBER
 TRANSPORTATION ENHANCEMENT
 PROJECT

DR: BJS	DES: BJS	CK: APM	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	23	37	

SCALE: AS SHOWN

CONSTRUCTION NOTES			
1	INSTALL SMFO (144) CABLE IN CONDUIT PER INSTALLATION DETAILS.	LF	1551
3	COIL 50 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.	LF	100
5	COIL 100 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.	LF	100
7	APPLY CRACKSEAL AND MICRO-SURFACE TREATMENT PER MAG 331 & 337, COP STREET PAVEMENT CUT POLICY.	SY	1258
9	COORDINATE WITH CITY OF PHOENIX ITD STAFF FOR SPECIFIC ACCESS, LOCATION, AND MANNER OF TERMINATING CABLE.	EA	1
14	INSTALL NEW 2-1.25" CITY OF PHOENIX CONDUITS PER INSTALLATION DETAILS. SEE DETAIL ON SHEET 10.	LF	459
15	EXISTING CONDUIT. PROTECT IN PLACE.	-	-
20	EXISTING PULL BOX. PROTECT IN PLACE.	-	-
21	INSTALL NEW CITY OF PHOENIX NO. 8 PULL BOX. SEE DETAIL ON SHEET 7.	EA	2
26	INSTALL NEW 3-1.25" CITY OF PHOENIX CONDUITS PER INSTALLATION DETAILS. SEE DETAIL ON SHEET 10.	LF	884
27	ATTACH NEW 1-5" RIGID METAL CONDUIT TO EXISTING BRIDGE STRUCTURE. SEE DETAIL ON SHEET 15-16.	LF	265
29	EXISTING TYPE 'B' BATTERY BACKUP POWER PEDESTAL. PROTECT IN PLACE.	-	-
31	INSTALL NEW NODE CABINET ON EXISTING FOUNDATION. SEE DETAIL ON SHEET 13.	EA	1
32	EXISTING CABINET. PROTECT IN PLACE.	-	-
33	INSTALL BOLLARDS PER MAG STANDARD DETAIL 140, TYPE 1 PERMANENT	EA	2
36	EXISTING METER PEDESTAL. PROTECT IN PLACE.	-	-

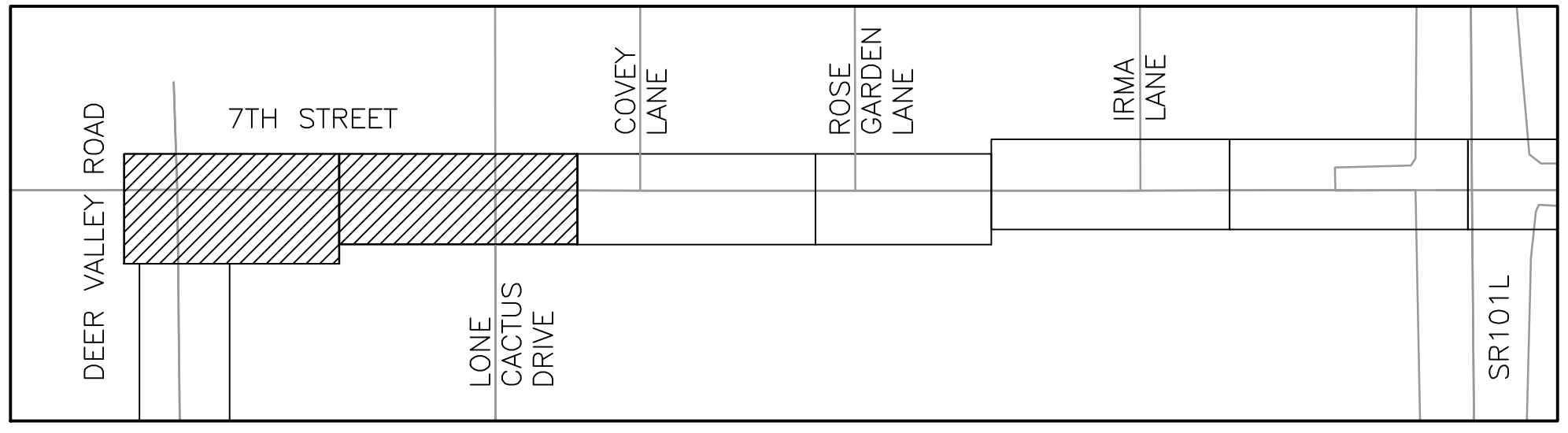
NOTES:
 1. PROPOSED CONDUIT AND EQUIPMENT SHALL MAINTAIN A 6-FOOT HORIZONTAL CLEARANCE FROM ALL EXISTING WATER/SEWER MAINS AND 3-FOOT CLEARANCE FROM ALL EXISTING WATER/SEWER SERVICE CONNECTIONS.
 2. REFER TO 'BURIED CONDUIT INSTALLATION AROUND OR UNDER OBSTRUCTION' NOTES 2 AND 3 FOR CONDUIT REQUIRED CLEARANCES ON PLAN SHEET 11..
 3. THE MICRO-SEAL LIMITS AREA CORRESPONDS TO THE DESIGN PROJECTED AREA. FOR EACH LOCATION FEATURING MICRO-SEAL, THE FINAL QUANTITY WILL DECREASE AFTER CONDUCTING POTHOLE ASSESSMENTS. THE CONTRACTOR IS REQUIRED TO EVALUATE AND OBTAIN APPROVAL FROM THE ENGINEER BEFORE PROCEEDING WITH THE MICRO-SEAL APPLICATION.

PULL BOX LOCATION SCHEDULE

PULL BOX	STATION	OFFSET
PB12	351+57	62.1' LT
PB13	20+99	62.6' RT
PB14	22+83	73.2' RT
PB15	23+03	60.8' RT
PB16	31+87	63.7' RT
PB17	34+48	61.1' RT

TRENCH TYPES LEGEND

- A DIRECTIONAL BORE CONDUIT CROSSING MAIN STREET.
- B DIRECTIONAL BORE CONDUIT.



7TH STREET KEY MAP

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29

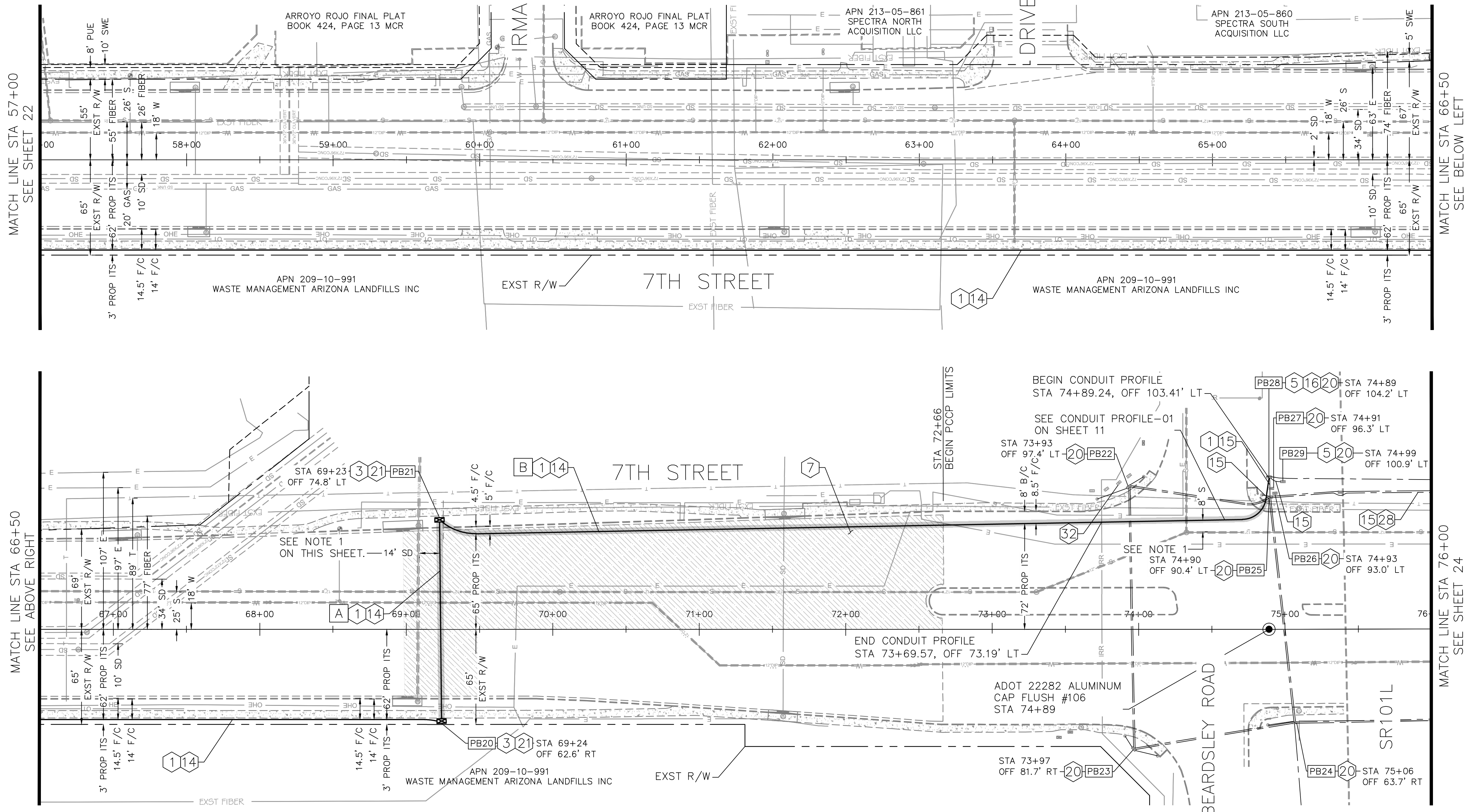


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	25	37	

Jacobs 1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282 PHONE: 480-866-8188 WWW.JACOBS.COM

DESIGN: BJS DRAWN: BJS CHECKED: APM

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



CONSTRUCTION NOTES

1	INSTALL SMFO (144) CABLE IN CONDUIT PER INSTALLATION DETAILS.	LF	1985
3	COIL 50 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.	LF	100
5	COIL 100 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.	LF	200
7	APPLY CRACKSEAL AND MICRO-SURFACE TREATMENT PER MAG 331 & 337, COP STREET PAVEMENT CUT POLICY.	SY	3207
14	INSTALL NEW 2-1.25" CITY OF PHOENIX CONDUITS PER INSTALLATION DETAILS. SEE DETAIL ON SHEET 10.	LF	1970
15	EXISTING CONDUIT. PROTECT IN PLACE.	-	-
16	ROUTE NEW CONDUIT INTO EXISTING PULL BOX.	-	-
20	EXISTING PULL BOX. PROTECT IN PLACE.	-	-
21	INSTALL NEW CITY OF PHOENIX NO. 8 PULL BOX. SEE DETAIL ON SHEET 7.	EA	2
28	INSTALL NEW SMFO (144) CABLE INTO EXISTING CITY OF PHOENIX 3" TRAFFIC SIGNAL SPARE CONDUIT.	LF	110
32	EXISTING CABINET. PROTECT IN PLACE.	-	-

TRENCH TYPES LEGEND

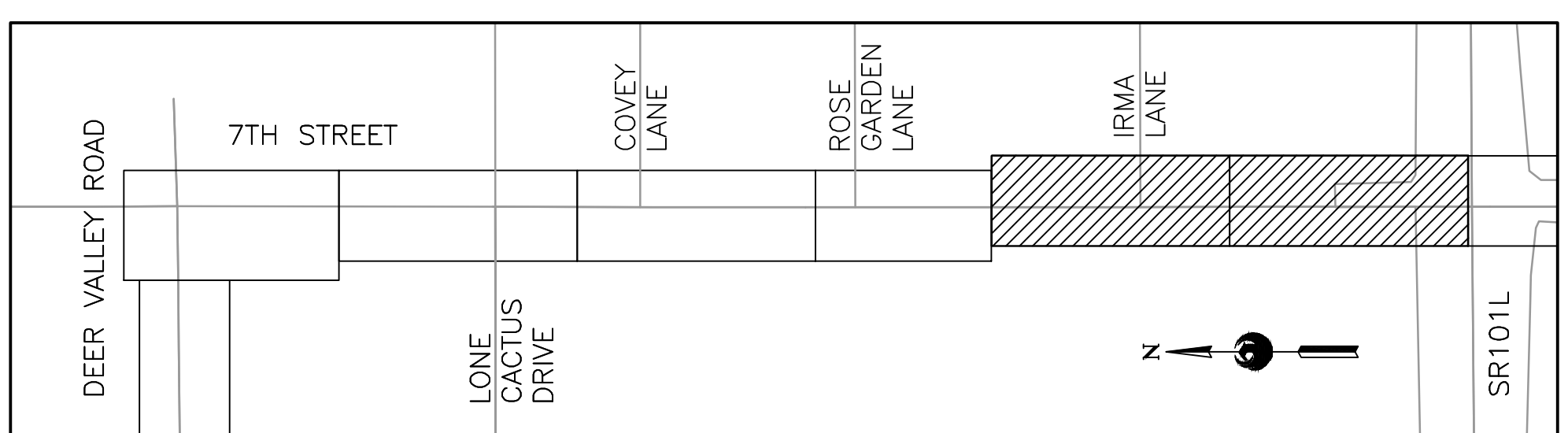
A DIRECTIONAL BORE CONDUIT CROSSING MAIN STREET.
 B DIRECTIONAL BORE CONDUIT.

GRAPHIC SCALE IN FEET: 0, 20, 40, 80

North Arrow

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

NOTES:
 1. PROPOSED CONDUIT AND EQUIPMENT SHALL MAINTAIN A 6-FOOT HORIZONTAL CLEARANCE FROM ALL EXISTING WATER/SEWER MAINS AND 3-FOOT CLEARANCE FROM ALL EXISTING WATER/SEWER SERVICE CONNECTIONS.
 2. REFER TO 'BURIED CONDUIT INSTALLATION AROUND OR UNDER OBSTRUCTION' NOTES 2 AND 3 FOR CONDUIT REQUIRED CLEARANCES ON PLAN SHEET 11.
 3. EXISTING ADOT UTILITIES AT 7TH STREET AND SR101L ARE TO BE PROTECTED IN PLACE.
 4. THE MICRO-SEAL LIMITS AREA CORRESPONDS TO THE DESIGN PROJECTED AREA. FOR EACH LOCATION FEATURING MICRO-SEAL, THE FINAL QUANTITY WILL DECREASE AFTER CONDUCTING POTHOLE ASSESSMENTS. THE CONTRACTOR IS REQUIRED TO EVALUATE AND OBTAIN APPROVAL FROM THE ENGINEER BEFORE PROCEEDING WITH THE MICRO-SEAL APPLICATION.



7TH STREET KEY MAP

PULL BOX LOCATION SCHEDULE

PULL BOX	STATION	OFFSET	PULL BOX	STATION	OFFSET
PB20	69+24	62.6' RT	PB25	74+90	90.4' LT
PB21	69+23	74.8' LT	PB26	74+93	93.0' LT
PB22	73+93	97.4' LT	PB27	74+91	96.3' LT
PB23	73+97	81.7' RT	PB28	74+89	104.2' LT
PB24	75+06	63.7' RT	PB29	74+99	100.9' LT

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.

7TH STREET PLAN SHEET
 STA 57+00 TO STA 76+00
CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT
7TH STREET FIBER
TRANSPORTATION ENHANCEMENT
PROJECT

DR: BJS	DES: BJS	CK: APM	SHEET NO.:	TOTAL SHEETS:	AS BUILT:
DATE: 02/24	DATE: 02/24	DATE: 02/24	NO.:	37	

SCALE: AS SHOWN



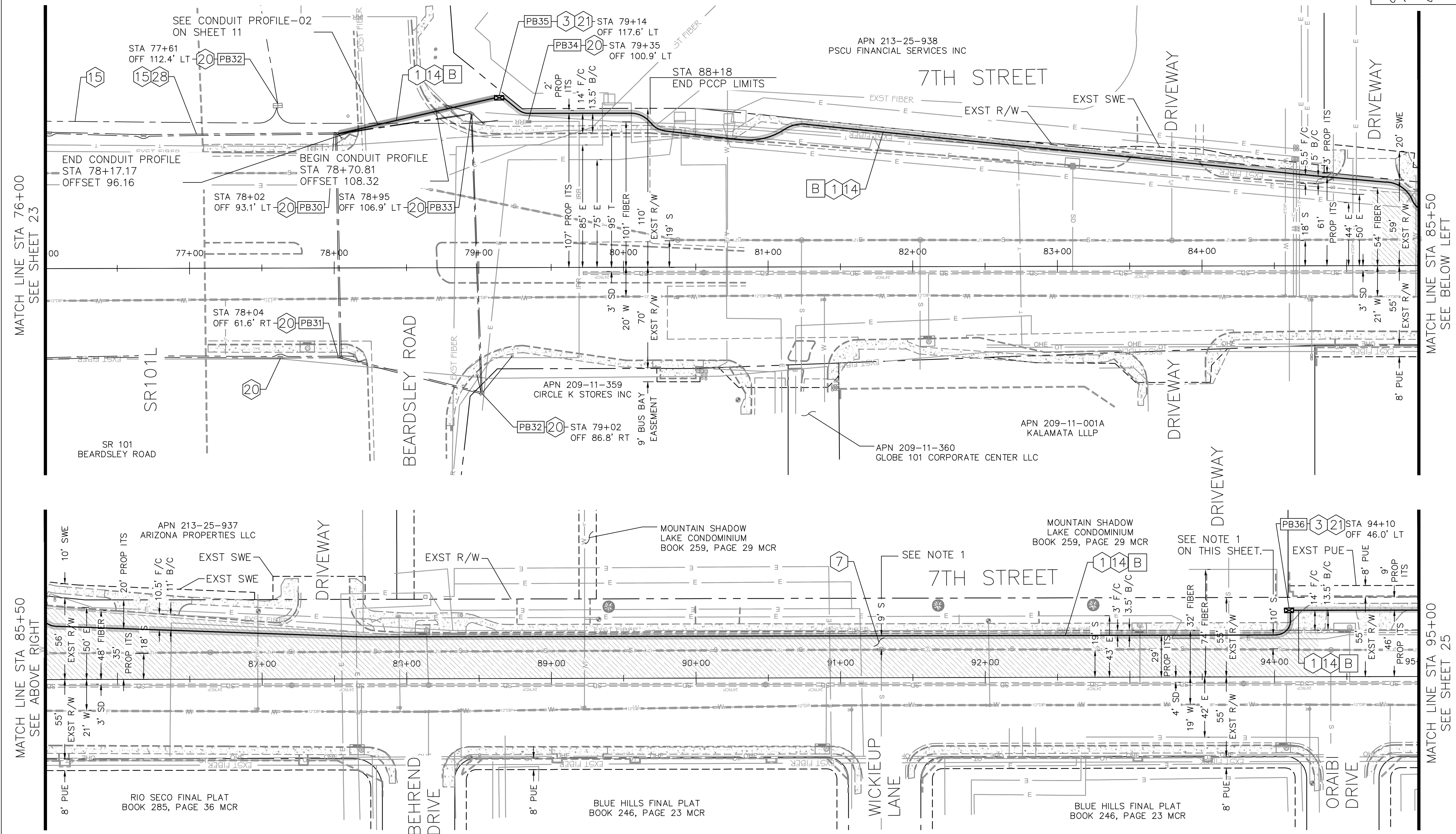
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	26	37	

Jacobs 1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282 PHONE: 480-866-8188 WWW.JACOBS.COM

DESIGN: BJS DRAWN: BJS CHECKED: APM

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29

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



CONSTRUCTION NOTES

1	INSTALL SMFO (144) CABLE IN CONDUIT PER INSTALLATION DETAILS.	LF	2205
3	COIL 50 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.	LF	100
7	APPLY CRACKSEAL AND MICRO-SURFACE TREATMENT PER MAG 331 & 337, COP STREET PAVEMENT CUT POLICY.	SY	3426
14	INSTALL NEW 2-1.25" CITY OF PHOENIX CONDUITS PER INSTALLATION DETAILS. SEE DETAIL ON SHEET 10.	LF	2205
15	EXISTING CONDUIT. PROTECT IN PLACE.	-	-
20	EXISTING PULL BOX. PROTECT IN PLACE.	-	-
21	INSTALL NEW CITY OF PHOENIX NO. 8 PULL BOX. SEE DETAIL ON SHEET 7.	EA	2
28	INSTALL NEW SMFO (144) CABLE INTO EXISTING CITY OF PHOENIX 3" TRAFFIC SIGNAL SPARE CONDUIT.	LF	201

TRENCH TYPES LEGEND

B DIRECTIONAL BORE CONDUIT.

GRAPHIC SCALE IN FEET
 0 20 40 80

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

7TH STREET PLAN SHEET
 STA 76+00 TO STA 95+00
CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

7TH STREET FIBER
 TRANSPORTATION ENHANCEMENT
 PROJECT

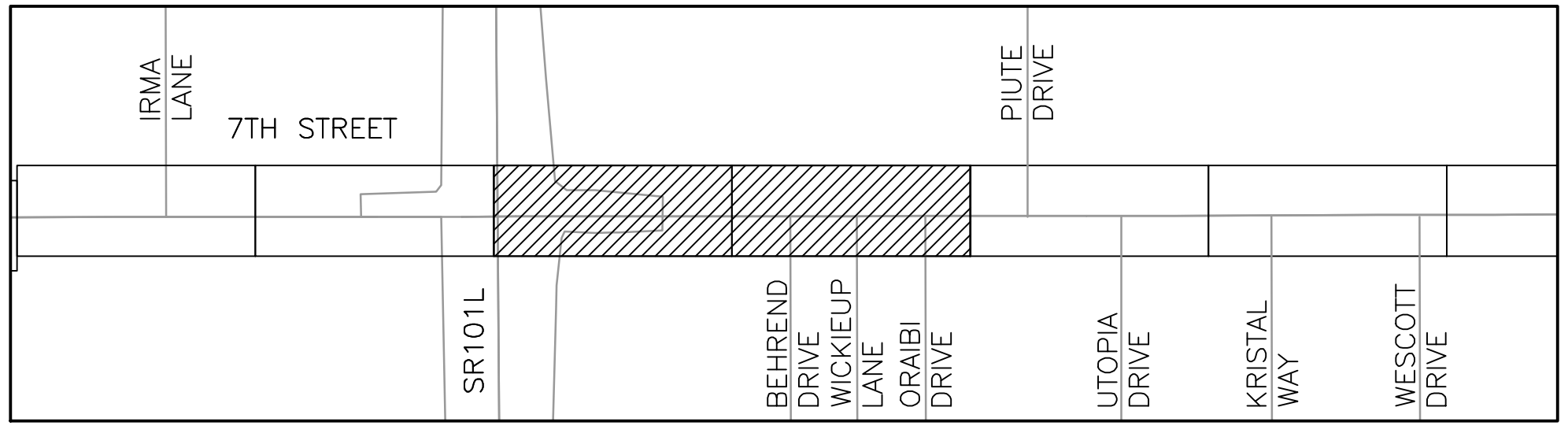
DR: BJS	DES: BJS	CK: APM	SHEET NO.:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	NO.:	26	37

SCALE: AS SHOWN

PULL BOX LOCATION SCHEDULE

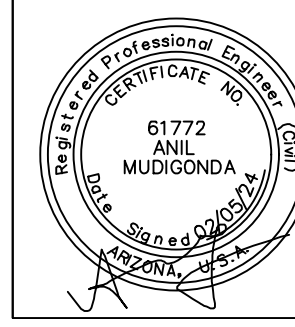
PULL BOX	STATION	OFFSET
PB30	78+02	93.1' LT
PB31	78+04	61.6' RT
PB32	79+02	86.8' RT
PB33	78+95	106.9' LT
PB34	79+35	100.9' LT
PB35	79+14	117.6' LT
PB36	94+10	46.0' LT

- NOTES:**
- PROPOSED CONDUIT AND EQUIPMENT SHALL MAINTAIN A 6-FOOT HORIZONTAL CLEARANCE FROM ALL EXISTING WATER/SEWER MAINS AND 3-FOOT CLEARANCE FROM ALL EXISTING WATER/SEWER SERVICE CONNECTIONS.
 - REFER TO 'BURIED CONDUIT INSTALLATION AROUND OR UNDER OBSTRUCTION' NOTES 2 AND 3 FOR CONDUIT REQUIRED CLEARANCES ON PLAN SHEET 11.
 - EXISTING ADOT UTILITIES AT 7TH STREET AND SR101L ARE TO BE PROTECTED IN PLACE.
 - THE MICRO-SEAL LIMITS AREA CORRESPONDS TO THE DESIGN PROJECTED AREA. FOR EACH LOCATION FEATURING MICRO-SEAL, THE FINAL QUANTITY WILL DECREASE AFTER CONDUCTING POTHOLE ASSESSMENTS. THE CONTRACTOR IS REQUIRED TO EVALUATE AND OBTAIN APPROVAL FROM THE ENGINEER BEFORE PROCEEDING WITH THE MICRO-SEAL APPLICATION.



7TH STREET KEY MAP

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29

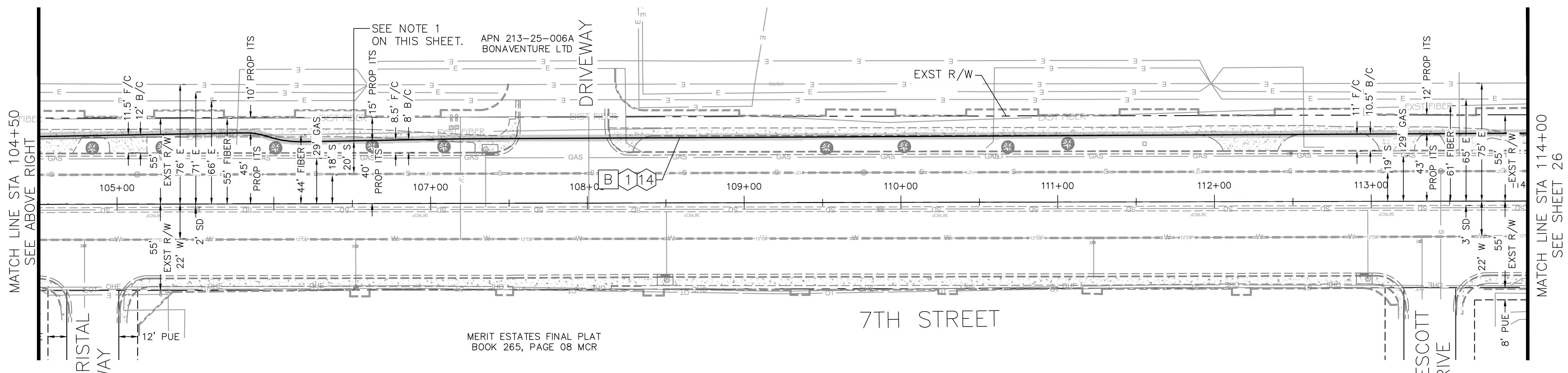
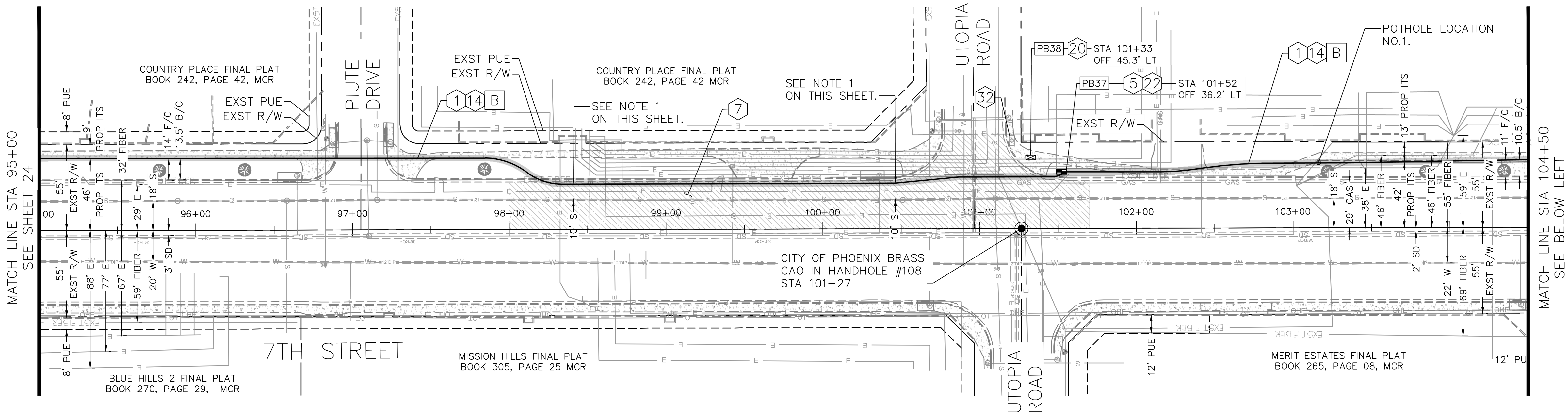


F.H.W.A. REGION 9	STATE ARIZ.	PROJECT NO. ST89340660-1	SHEET NO. 27	TOTAL SHEETS 37	AS BUILT
Jacobs		1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282	PHONE: 480-966-8188 WWW.JACOBS.COM		
DESIGN: BJS	DRAWN: BJS	CHECKED: APM			

NO.	DESCRIPTION	REV BY	CHK BY	DATE

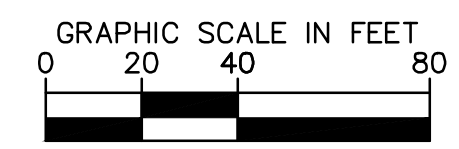
CONSTRUCTION NOTES

1	INSTALL SMFO (144) CABLE IN CONDUIT PER INSTALLATION DETAILS	LF	1910
5	COIL 100 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.	EA	100
7	APPLY CRACKSEAL AND MICRO-SURFACE TREATMENT PER MAG 331 & 337, COP STREET PAVEMENT CUT POLICY.	SY	1440
14	INSTALL NEW 2-1.25" CITY OF PHOENIX CONDUITS PER INSTALLATION DETAILS. SEE DETAIL ON SHEET 10.	LF	1910
20	EXISTING PULL BOX. PROTECT IN PLACE.	-	-
22	INSTALL NEW CITY OF PHOENIX NO. 9 PULL BOX WITH LID. SEE DETAIL ON SHEET 5.	EA	1
32	EXISTING CABINET. PROTECT IN PLACE.	-	-



TRENCH TYPES LEGEND

[B] DIRECTIONAL BORE CONDUIT.



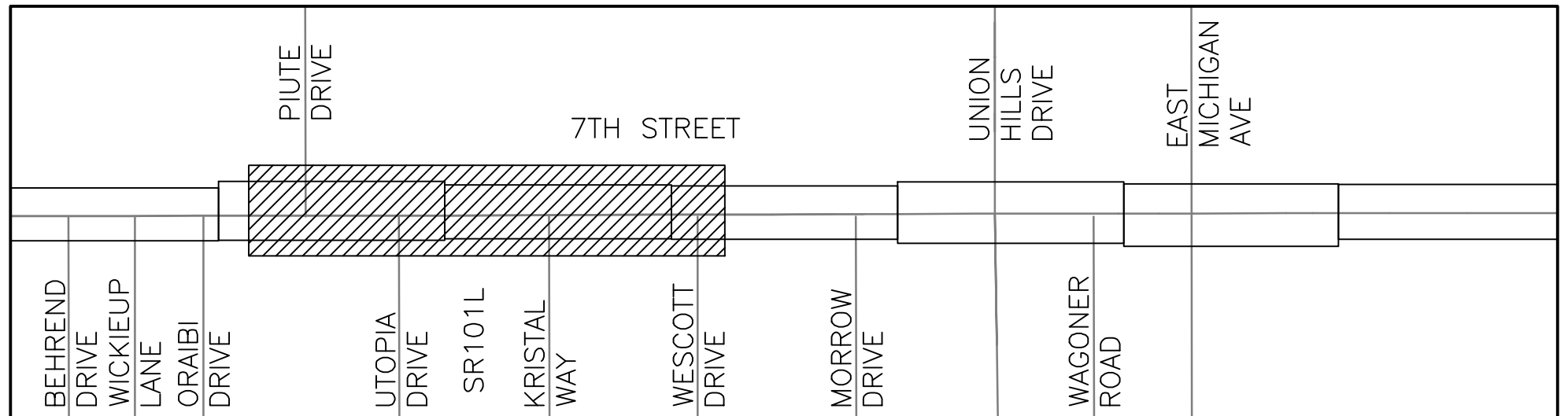
PER THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

**7TH STREET PLAN SHEET
 STA 95+00 TO STA 114+00**

**CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT**

**7TH STREET FIBER
 TRANSPORTATION ENHANCEMENT
 PROJECT**

DR: BJS	DES: BJS	CK: APM	SHEET NO.: 27	TOTAL SHEETS: 37	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	SCALE: AS SHOWN		



7TH STREET KEY MAP

PULL BOX LOCATION SCHEDULE

PULL BOX	STATION	OFFSET
PB37	101+52	36.2' LT
PB38	101+33	45.3' LT

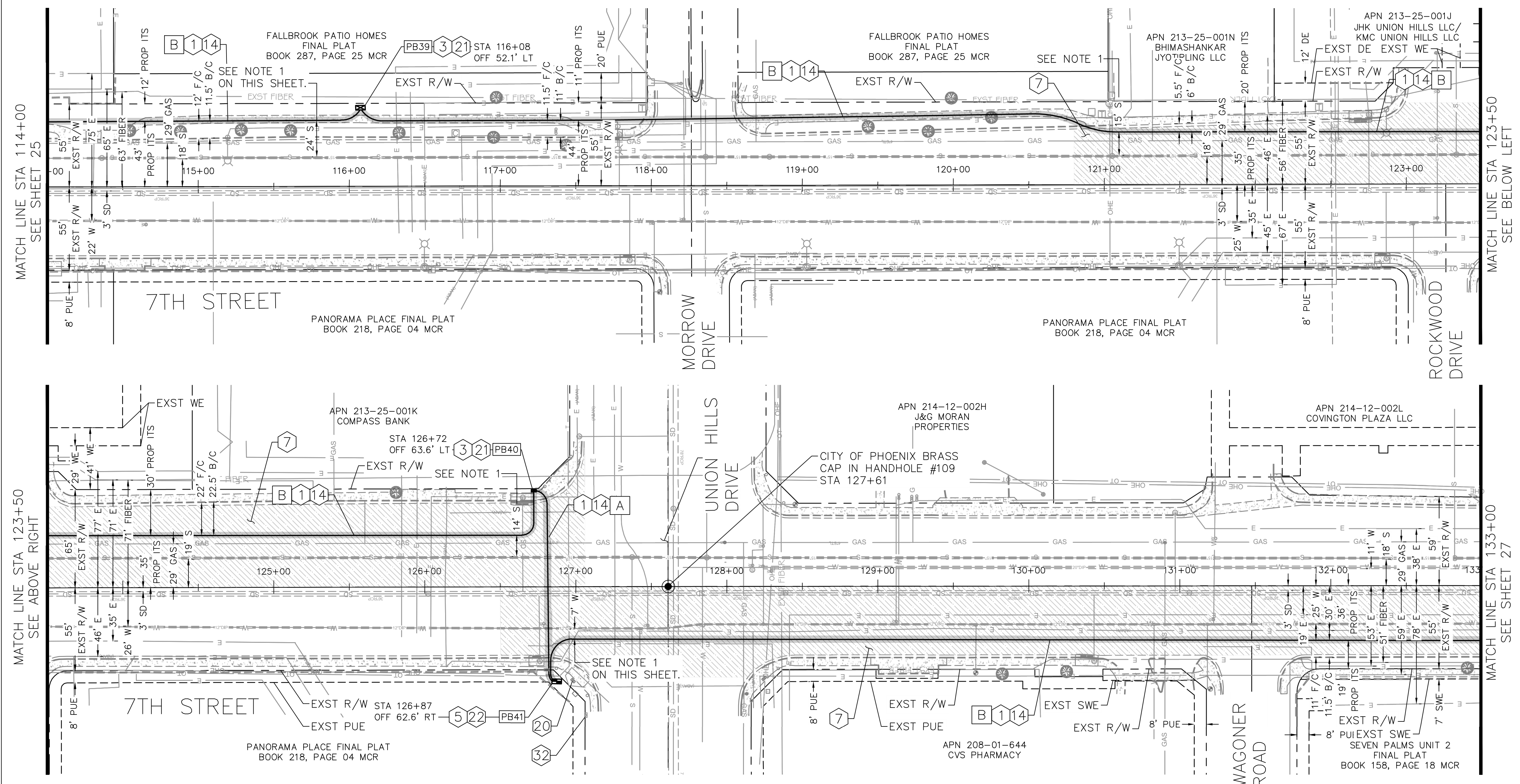
NOTES:
 1. PROPOSED CONDUIT AND EQUIPMENT SHALL MAINTAIN A 6-FOOT HORIZONTAL CLEARANCE FROM ALL EXISTING WATER/SEWER MAINS AND 3-FOOT CLEARANCE FROM ALL EXISTING WATER/SEWER SERVICE CONNECTIONS.
 2. REFER TO 'BURIED CONDUIT INSTALLATION AROUND OR UNDER OBSTRUCTION' NOTES 2 AND 3 FOR CONDUIT REQUIRED CLEARANCES ON PLAN SHEET 11.
 4. THE MICRO-SEAL LIMITS AREA CORRESPONDS TO THE DESIGN PROJECTED AREA. FOR EACH LOCATION FEATURING MICRO-SEAL, THE FINAL QUANTITY WILL DECREASE AFTER CONDUCTING POTHOLE ASSESSMENTS. THE CONTRACTOR IS REQUIRED TO EVALUATED AND OBTAIN APPROVAL FROM THE ENGINEER BEFORE PROCEEDING WITH THE MICRO-SEAL APPLICATION.



F.H.W.A. REGION 9	STATE ARIZ.	PROJECT NO. ST89340660-1	SHEET NO. 28	TOTAL SHEETS 37	AS BUILT
Jacobs		1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282	PHONE: 480-866-8188 WWW.JACOBS.COM		
DESIGN: BJS	DRAWN: BJS	CHECKED: APM			

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29

NO.	DESCRIPTION	REV BY	CHK BY	DATE



CONSTRUCTION NOTES

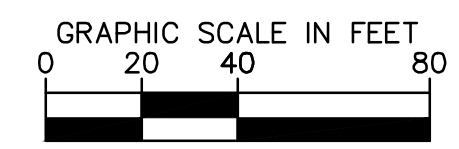
1	INSTALL NEW FIBER OPTIC CABLE PER INSTALLATION DETAILS.	LF	2070
3	COIL 50 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.	LF	100
5	COIL 100 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.	LF	100
7	APPLY CRACKSEAL AND MICRO-SURFACE TREATMENT PER MAG 331 & 337, COP STREET PAVEMENT CUT POLICY.	SY	6947
14	INSTALL NEW 2-1.25" CITY OF PHOENIX CONDUITS PER INSTALLATION DETAILS. SEE DETAIL ON SHEET 10.	LF	2070
20	EXISTING PULL BOX. PROTECT IN PLACE.	-	-
21	INSTALL NEW CITY OF PHOENIX NO. 8 PULL BOX. SEE DETAIL ON SHEET 7.	EA	2
22	INSTALL NEW CITY OF PHOENIX NO. 9 PULL BOX WITH LID. SEE DETAIL ON SHEET 5.	EA	1
32	EXISTING CABINET. PROTECT IN PLACE.	-	-

MATCH LINE STA 123+50
SEE ABOVE RIGHT

MATCH LINE STA 133+00
SEE BELOW LEFT

TRENCH TYPES LEGEND

- A DIRECTIONAL BORE CONDUIT CROSSING MAIN STREET.
- B DIRECTIONAL BORE CONDUIT.

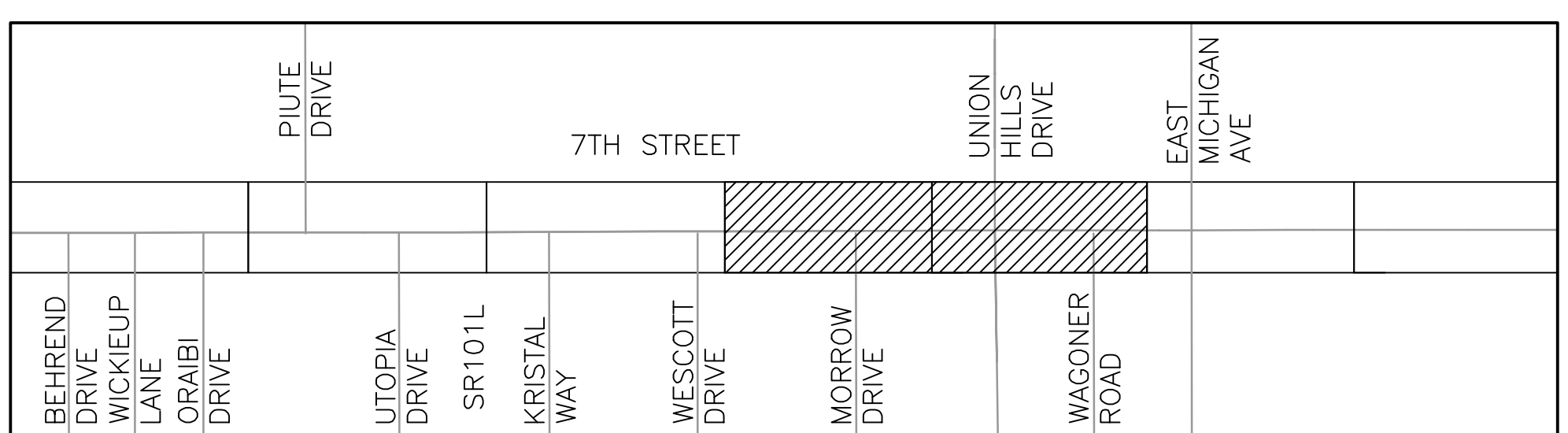


PER THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

7TH STREET PLAN SHEET
 STA 114+00 TO STA 133+00
CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

7TH STREET FIBER
TRANSPORTATION ENHANCEMENT
PROJECT

DR: BJS	DES: BJS	CK: APM	SHEET NO: 28	TOTAL SHEETS: 37	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	SCALE: AS SHOWN		



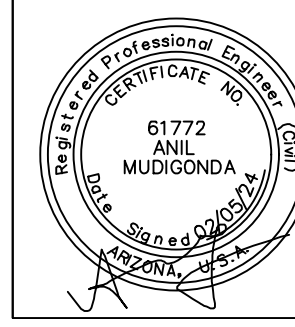
7TH STREET KEY MAP

PULL BOX LOCATION SCHEDULE

PULL BOX	STATION	OFFSET
PB39	116+08	52.1' LT
PB40	126+72	63.6' LT
PB41	126+87	62.6' RT

- NOTES:**
- PROPOSED CONDUIT AND EQUIPMENT SHALL MAINTAIN A 6-FOOT HORIZONTAL CLEARANCE FROM ALL EXISTING WATER/SEWER MAINS AND 3-FOOT CLEARANCE FROM ALL EXISTING WATER/SEWER SERVICE CONNECTIONS.
 - REFER TO 'BURIED CONDUIT INSTALLATION AROUND OR UNDER OBSTRUCTION' NOTES 2 AND 3 FOR CONDUIT REQUIRED CLEARANCES ON PLAN SHEET 11.
 - THE MICRO-SEAL LIMITS AREA CORRESPONDS TO THE DESIGN PROJECTED AREA. FOR EACH LOCATION FEATURING MICRO-SEAL, THE FINAL QUANTITY WILL DECREASE AFTER CONDUCTING POT HOLE ASSESSMENTS. THE CONTRACTOR IS REQUIRED TO EVALUATE AND OBTAIN APPROVAL FROM THE ENGINEER BEFORE PROCEEDING WITH THE MICRO-SEAL APPLICATION.

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	29	37	

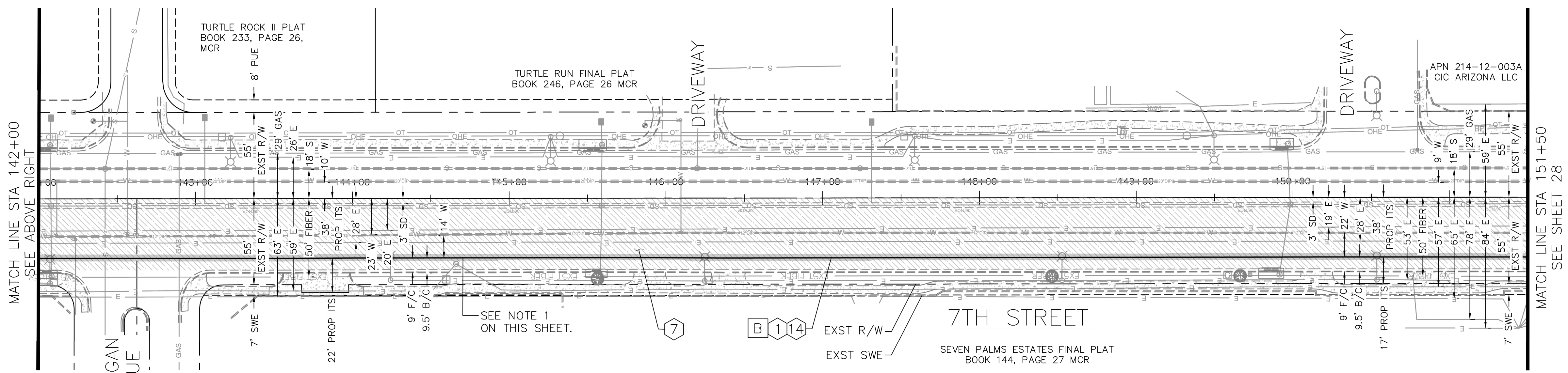
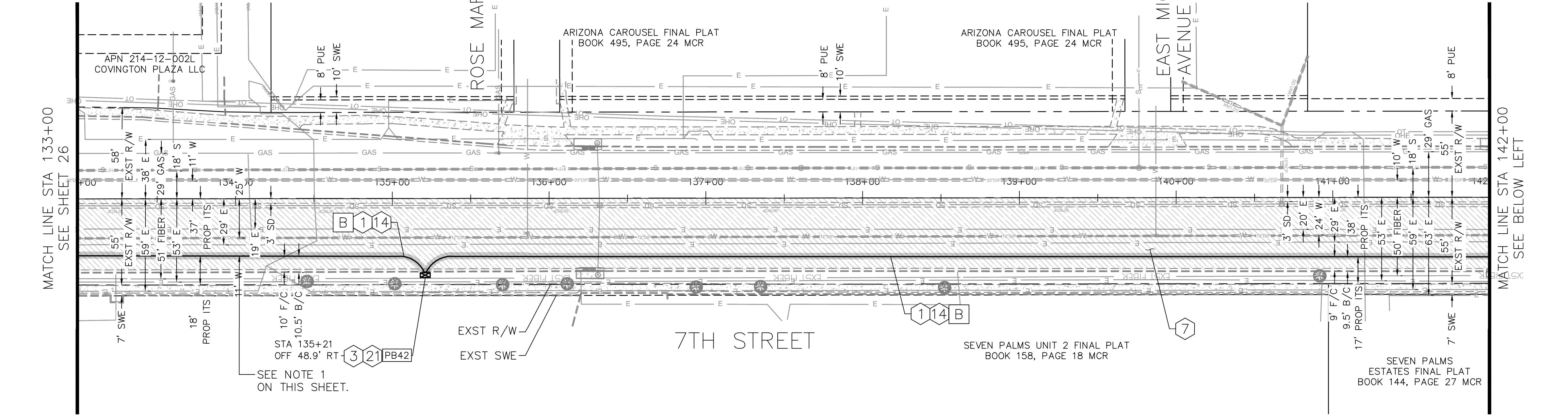
Jacobs 1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282 PHONE: 480-866-8188 WWW.JACOBS.COM

DESIGN: BJS DRAWN: BJS CHECKED: APM

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

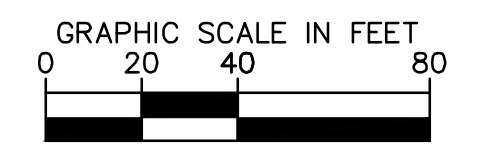
CONSTRUCTION NOTES

1	INSTALL NEW FIBER OPTIC CABLE PER INSTALLATION DETAILS.	LF	1865
3	COIL 50 FEET OF SLACK FOR EACH 144 FOUNT FIBER OPTIC CABLE IN PULL BOX.	LF	50
7	APPLY CRACKSEAL AND MICRO-SURFACE TREATMENT PER MAG 331 & 337, COP STREET PAVEMENT CUT POLICY.	SY	9359
14	INSTALL NEW 2-1.25" CITY OF PHOENIX CONDUITS PER INSTALLATION DETAILS. SEE DETAIL ON SHEET 10.	LF	1865
21	INSTALL NEW CITY OF PHOENIX NO. 8 PULL BOX. SEE DETAIL ON SHEET 7.	EA	1



TRENCH TYPES LEGEND

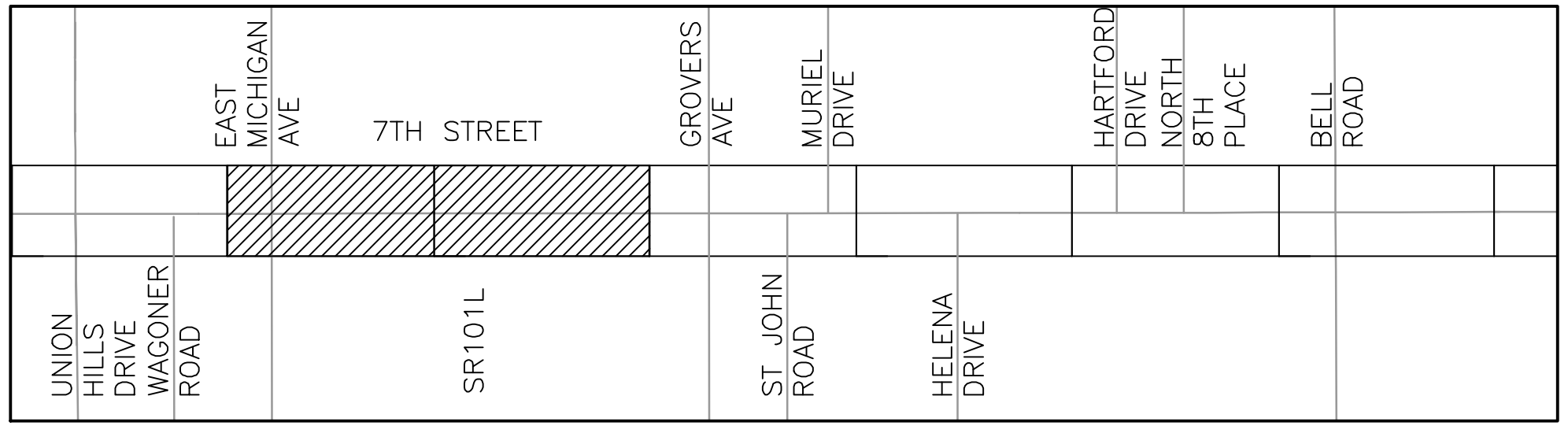
[B] DIRECTIONAL BORE CONDUIT.



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.

**7TH STREET PLAN SHEET
 STA 133+00 TO STA 151+50
 CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT
 7TH STREET FIBER
 TRANSPORTATION ENHANCEMENT
 PROJECT**

DR: BJS	DES: BJS	CK: APM	SHEET NO.:	TOTAL SHEETS:	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	NO.:	29	37
SCALE: AS SHOWN					



7TH STREET KEY MAP

PULL BOX LOCATION SCHEDULE

PULL BOX	STATION	OFFSET
PB42	135+21	48.9' RT

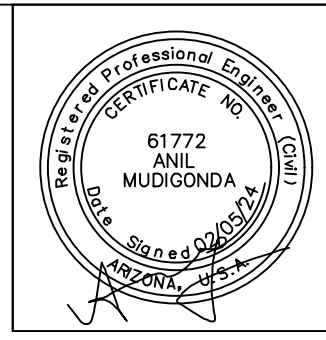
NOTES:
 1. PROPOSED CONDUIT AND EQUIPMENT SHALL MAINTAIN A 6-FOOT HORIZONTAL CLEARANCE FROM ALL EXISTING WATER/SEWER MAINS AND 3-FOOT CLEARANCE FROM ALL EXISTING WATER/SEWER SERVICE CONNECTIONS.

2. REFER TO 'BURIED CONDUIT INSTALLATION AROUND OR UNDER OBSTRUCTION' NOTES 2 AND 3 FOR CONDUIT REQUIRED CLEARANCES ON PLAN SHEET 11.

3. THE MICRO-SEAL LIMITS AREA CORRESPONDS TO THE DESIGN PROTECTED AREA. FOR EACH LOCATION FEATURING MICRO-SEAL, THE FINAL QUANTITY WILL DECREASE AFTER CONDUCTING POTHOLE ASSESSMENTS. THE CONTRACTOR IS REQUIRED TO EVALUATE AND OBTAIN APPROVAL FROM THE ENGINEER BEFORE PROCEEDING WITH THE MICRO-SEAL APPLICATION.

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

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29



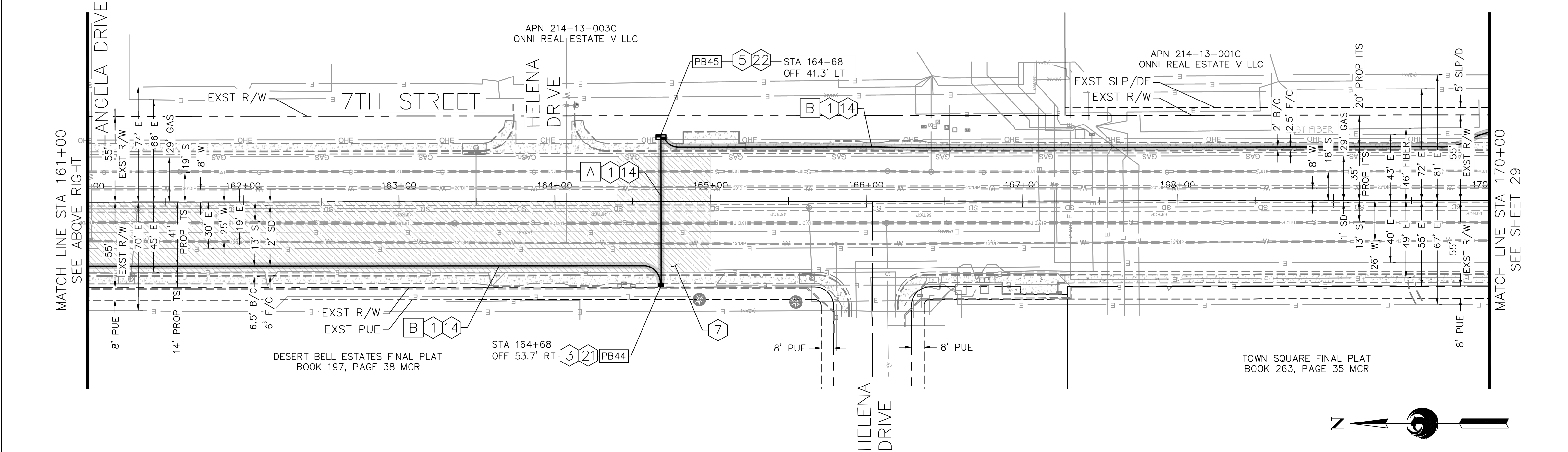
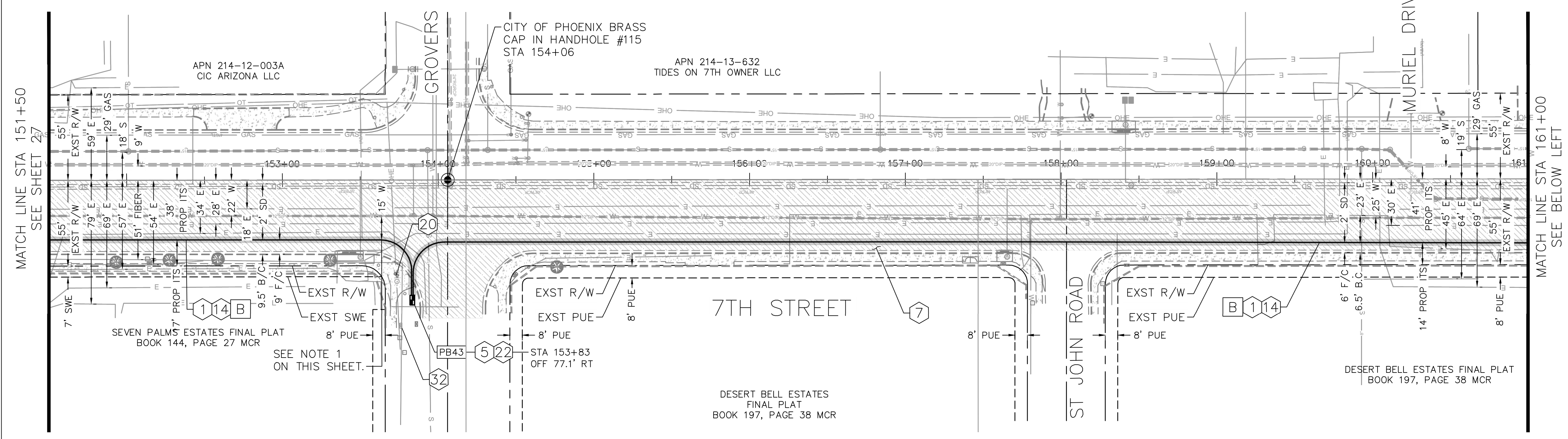
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	30	37	

Jacobs 1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282 PHONE: 480-866-8188 WWW.JACOBS.COM

DESIGN: BJS DRAWN: BJS CHECKED: APM

CONSTRUCTION NOTES

1	INSTALL NEW FIBER OPTIC CABLE PER INSTALLATION DETAILS.	LF	2010
3	COIL 50 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.	LF	50
5	COIL 100 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.	LF	200
7	APPLY CRACKSEAL AND MICRO-SURFACE TREATMENT PER MAG 331 & 337, COP STREET PAVEMENT CUT POLICY.	SY	7287
14	INSTALL NEW 2-1.25" CITY OF PHOENIX CONDUITS PER INSTALLATION DETAILS. SEE DETAIL ON SHEET 10.	LF	2010
21	INSTALL NEW CITY OF PHOENIX NO. 8 PULL BOX. SEE DETAIL ON SHEET 7.	EA	1
22	INSTALL NEW CITY OF PHOENIX NO. 9 PULL BOX WITH LID. SEE DETAIL ON SHEET 5.	EA	2
32	EXISTING CABINET. PROTECT IN PLACE.	-	-



TRENCH TYPES LEGEND

A DIRECTIONAL BORE CONDUIT CROSSING MAIN STREET.
 B DIRECTIONAL BORE CONDUIT.

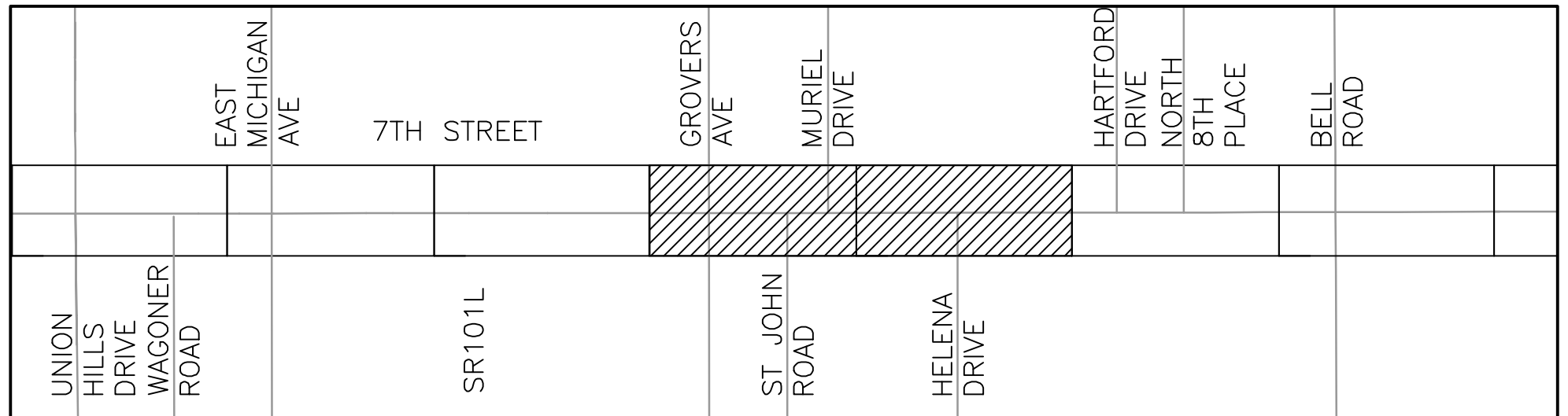
GRAPHIC SCALE IN FEET
 0 20 40 80

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

7TH STREET PLAN SHEET
 STA 151+50 TO STA 170+00
CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT
7TH STREET FIBER
TRANSPORTATION ENHANCEMENT
PROJECT

DR: BJS	DES: BJS	CK: APM	SHEET NO.:	TOTAL SHEETS:	AS BUILT:
DATE: 02/24	DATE: 02/24	DATE: 02/24	NO.:	30	37
SCALE: AS SHOWN				30	37



7TH STREET KEY MAP

PULL BOX LOCATION SCHEDULE

PULL BOX	STATION	OFFSET
PB43	153+83	77.1' RT
PB44	164+68	53.7' RT
PB45	164+68	41.3' LT

NOTES:

- PROPOSED CONDUIT AND EQUIPMENT SHALL MAINTAIN A 6-FOOT HORIZONTAL CLEARANCE FROM ALL EXISTING WATER/SEWER MAINS AND 3-FOOT CLEARANCE FROM ALL EXISTING WATER/SEWER SERVICE CONNECTIONS.
- REFER TO 'BURIED CONDUIT INSTALLATION AROUND OR UNDER OBSTRUCTION' NOTES 2 AND 3 FOR CONDUIT REQUIRED CLEARANCES ON PLAN SHEET 11.
- THE MICRO-SEAL LIMITS AREA CORRESPONDS TO THE DESIGN PROTECTED AREA. FOR EACH LOCATION FEATURING MICRO-SEAL, THE FINAL QUANTITY WILL DECREASE AFTER CONDUCTING POTHOLE ASSESSMENTS. THE CONTRACTOR IS REQUIRED TO EVALUATE AND OBTAIN APPROVAL FROM THE ENGINEER BEFORE PROCEEDING WITH THE MICRO-SEAL APPLICATION.



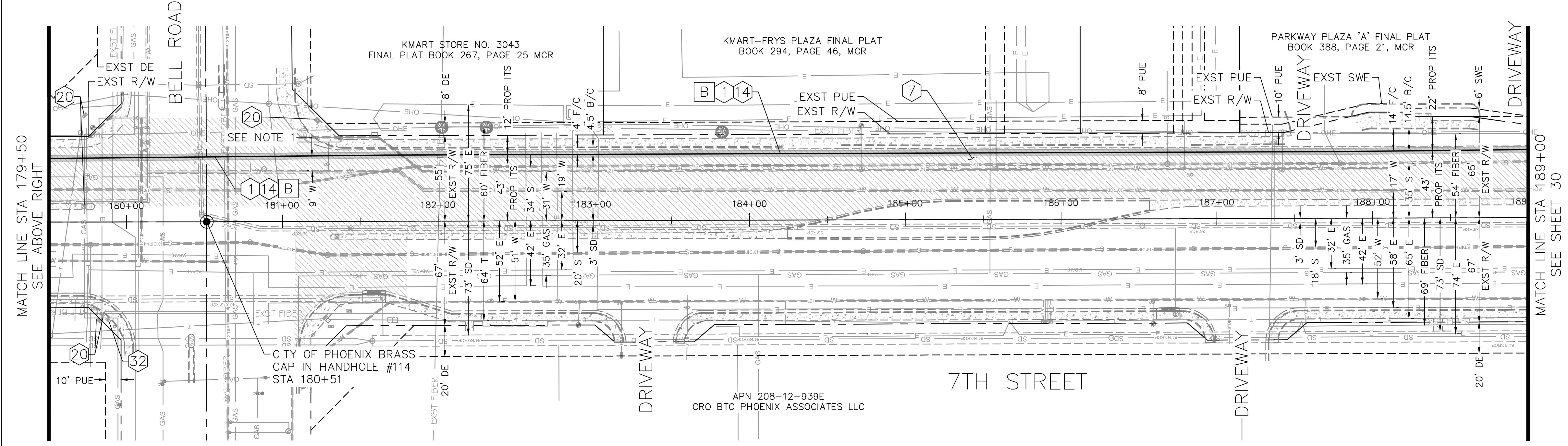
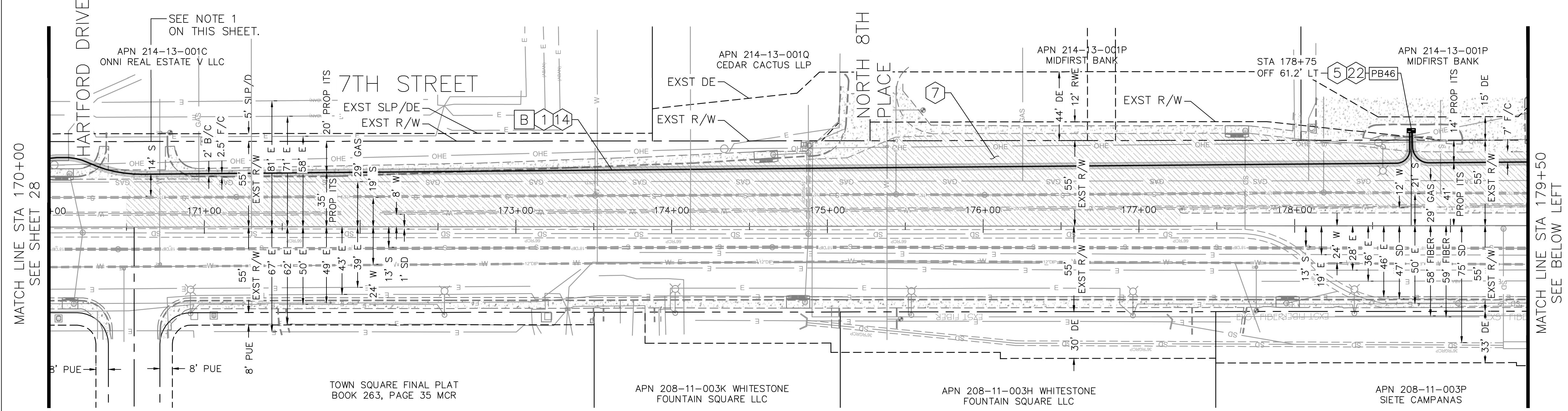
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	31	37	

Jacobs 1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282 PHONE: 480-866-8188 WWW.JACOBS.COM

DESIGN: BJS DRAWN: BJS CHECKED: APM

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

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
 BCHH, ELEV = 1469.669
 COP DATUM - COP NAVD 29

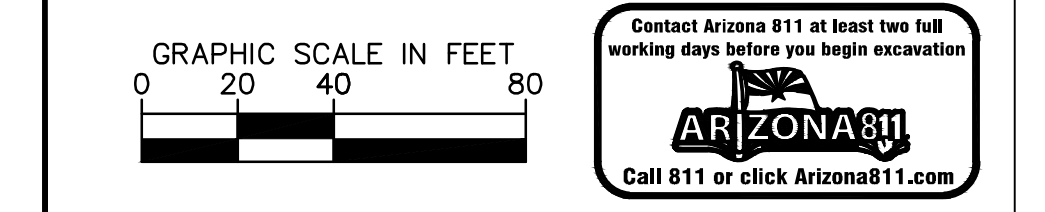


CONSTRUCTION NOTES

1	INSTALL NEW FIBER OPTIC CABLE PER INSTALLATION DETAILS.	LF	1900
5	COIL 100 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.	LF	100
7	APPLY CRACKSEAL AND MICRO-SURFACE TREATMENT PER MAG 331 & 337, COP STREET PAVEMENT CUT POLICY.	SY	9260
14	INSTALL NEW 2-1.25" CITY OF PHOENIX CONDUITS PER INSTALLATION DETAILS. SEE DETAIL ON SHEET 10.	LF	1900
20	EXISTING PULL BOX. PROTECT IN PLACE.	-	-
22	INSTALL NEW CITY OF PHOENIX NO. 9 PULL BOX WITH LID. SEE DETAIL ON SHEET 5.	EA	1
32	EXISTING CABINET. PROTECT IN PLACE.	-	-

TRENCH TYPES LEGEND

A	DIRECTIONAL BORE CONDUIT CROSSING MAIN STREET.
B	DIRECTIONAL BORE CONDUIT.



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.

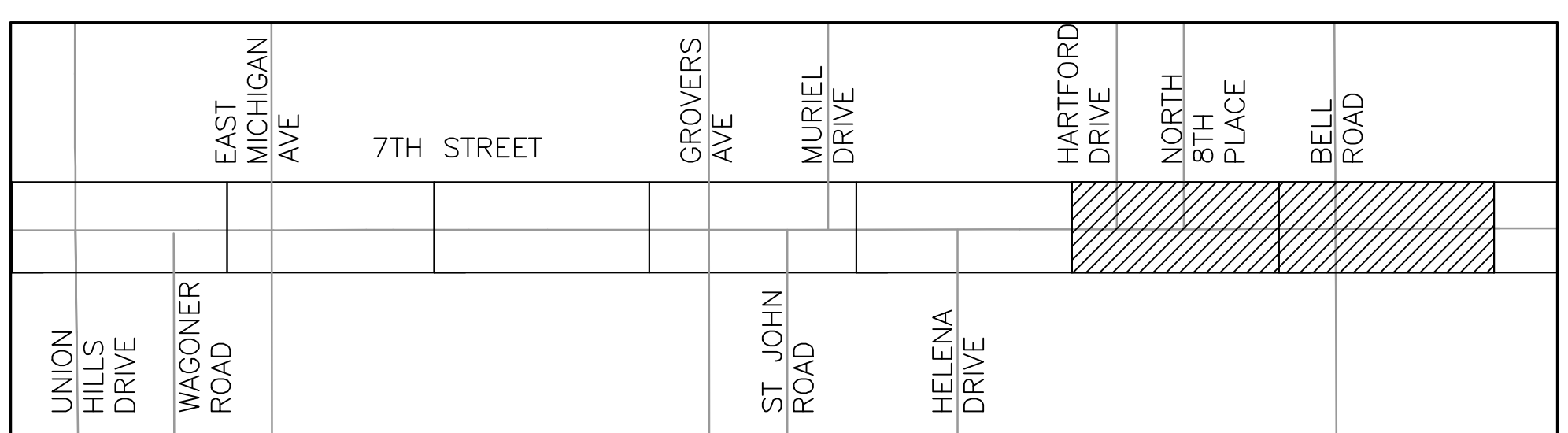
7TH STREET PLAN SHEET
 STA 170+00 TO STA 189+00

CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

7TH STREET FIBER
 TRANSPORTATION ENHANCEMENT PROJECT

DR: BJS	DES: BJS	CK: APM	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	NO:	31	37

SCALE: AS SHOWN



7TH STREET KEY MAP

PULL BOX LOCATION SCHEDULE

PULL BOX	STATION	OFFSET
PB46	178+75	61.2' LT

- NOTES:**
- PROPOSED CONDUIT AND EQUIPMENT SHALL MAINTAIN A 6-FOOT HORIZONTAL CLEARANCE FROM ALL EXISTING WATER/SEWER MAINS AND 3-FOOT CLEARANCE FROM ALL EXISTING WATER/SEWER SERVICE CONNECTIONS.
 - REFER TO 'BURIED CONDUIT INSTALLATION AROUND OR UNDER OBSTRUCTION' NOTES 2 AND 3 FOR CONDUIT REQUIRED CLEARANCES ON PLAN SHEET 11.
 - THE MICRO-SEAL LIMITS AREA CORRESPONDS TO THE DESIGN PROTECTED AREA. FOR EACH LOCATION FEATURING MICRO-SEAL, THE FINAL QUANTITY WILL DECREASE AFTER CONDUCTING POTHOLE ASSESSMENTS. THE CONTRACTOR IS REQUIRED TO EVALUATE AND OBTAIN APPROVAL FROM THE ENGINEER BEFORE PROCEEDING WITH THE MICRO-SEAL APPLICATION.

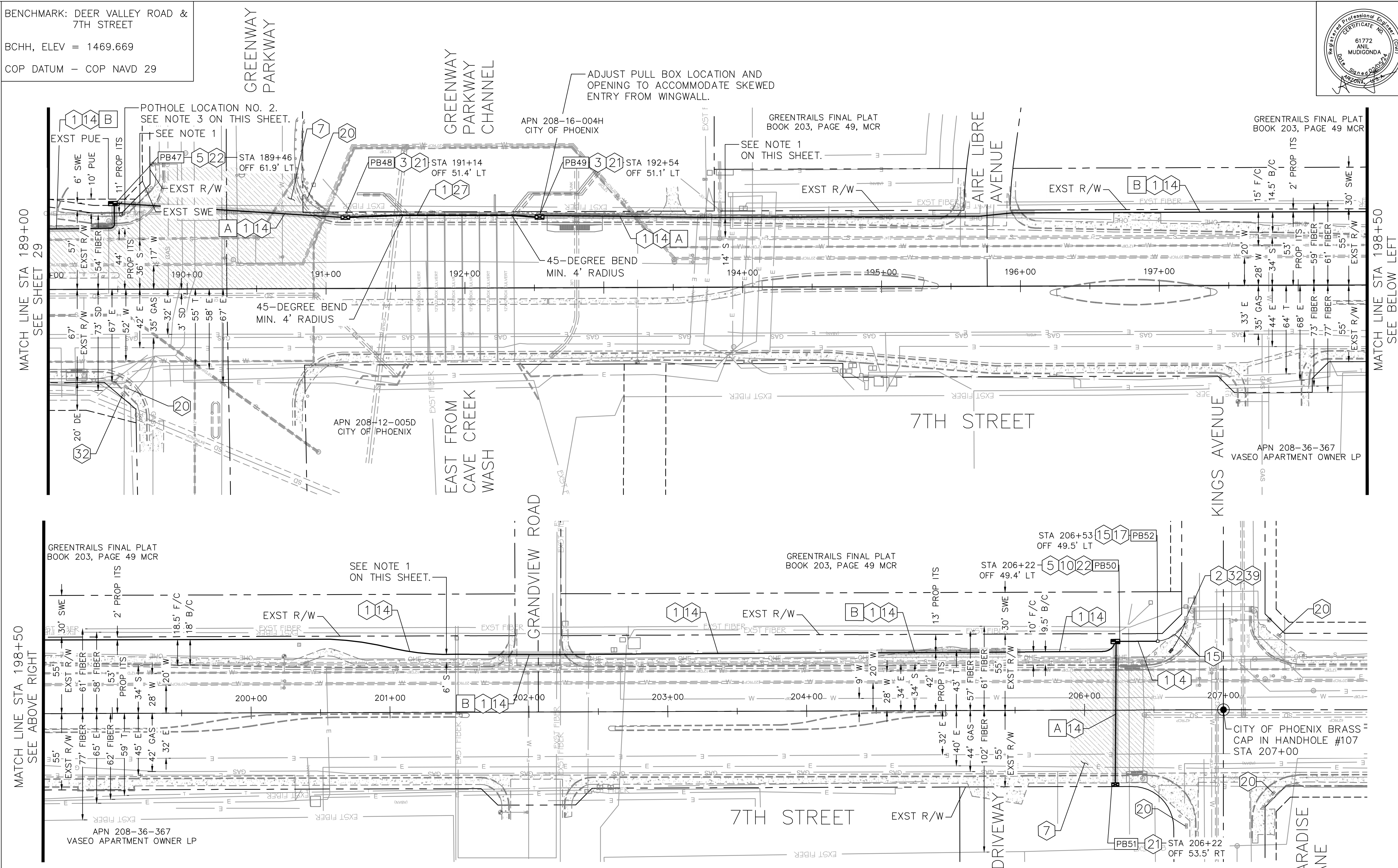


F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	32	37	

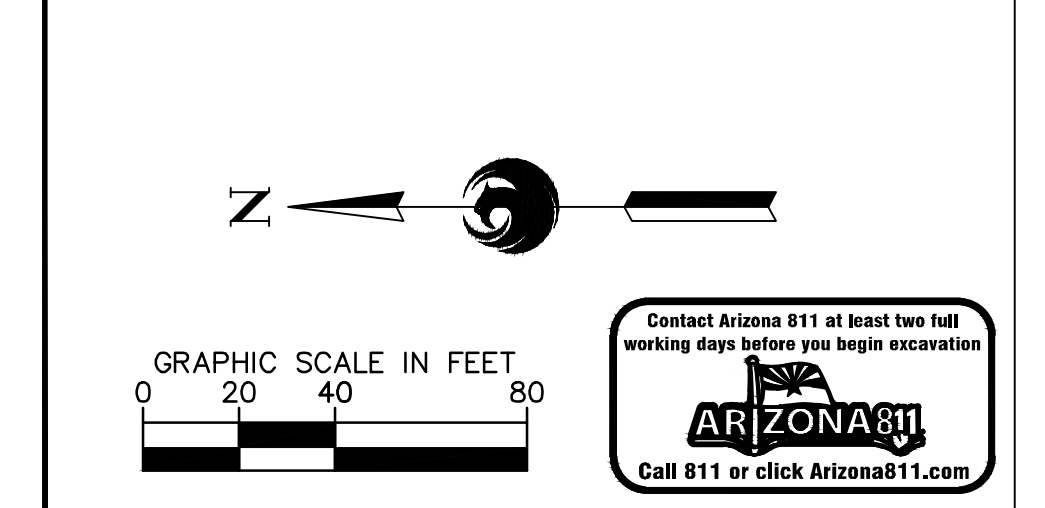
Jacobs 1501 W. FOUNTAINHEAD PKWY. SUITE 401, TEMPE, AZ 85282 PHONE: 480-866-8188 WWW.JACOBS.COM

DESIGN: BJS DRAWN: BJS CHECKED: APM

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



CONSTRUCTION NOTES		
1	INSTALL NEW FIBER OPTIC CABLE PER INSTALLATION DETAILS.	LF 1770
2	INSTALL NEW ETHERNET SWITCH IN EXISTING TRAFFIC SIGNAL CABINET.	EA 1
3	COIL 50 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.	LF 200
4	INSTALL NEW 1-2" CITY OF PHOENIX CONDUIT PER INSTALLATION DETAILS. SEE DETAIL ON SHEET 10.	LF 35
5	COIL 100 FEET OF SLACK FOR EACH 144 COUNT FIBER OPTIC CABLE IN PULL BOX.	LF 200
7	APPLY CRACKSEAL AND MICRO-SURFACE TREATMENT PER MAG 331 & 337, COP STREET PAVEMENT CUT POLICY.	SY 1938
10	FUSION SPLICE SMFO (12) BRANCH CABLE TO DESIGNATED FIBERS OF SMFO (144) BACKBONE CABLE IN NEW SPLICE CLOSURE AS SHOWN IN FIBER SPLICE DETAILS.	EA 1
14	INSTALL NEW 2-1.25" CITY OF PHOENIX CONDUITS PER INSTALLATION DETAILS. SEE DETAIL ON SHEET 10.	LF 1730
15	EXISTING CONDUIT. PROTECT IN PLACE.	- -
17	ROUTE EXISTING CONDUIT INTO NEW PULL BOX.	- -
20	EXISTING PULL BOX. PROTECT IN PLACE.	- -
21	INSTALL NEW CITY OF PHOENIX NO. 8 PULL BOX. SEE DETAIL ON SHEET 7.	EA 4
22	INSTALL NEW CITY OF PHOENIX NO. 9 PULL BOX WITH LID. SEE DETAIL ON SHEET 5.	EA 2
27	ATTACH NEW 1-5" RIGID METAL CONDUIT TO EXISTING BRIDGE STRUCTURE. SEE DETAIL ON SHEET 15-16.	LF 145
32	EXISTING CABINET. PROTECT IN PLACE.	- -
39	INSTALL NEW FIBER OPTIC SHEAR ASSEMBLY WITH 250-FT TAIL.	EA 1



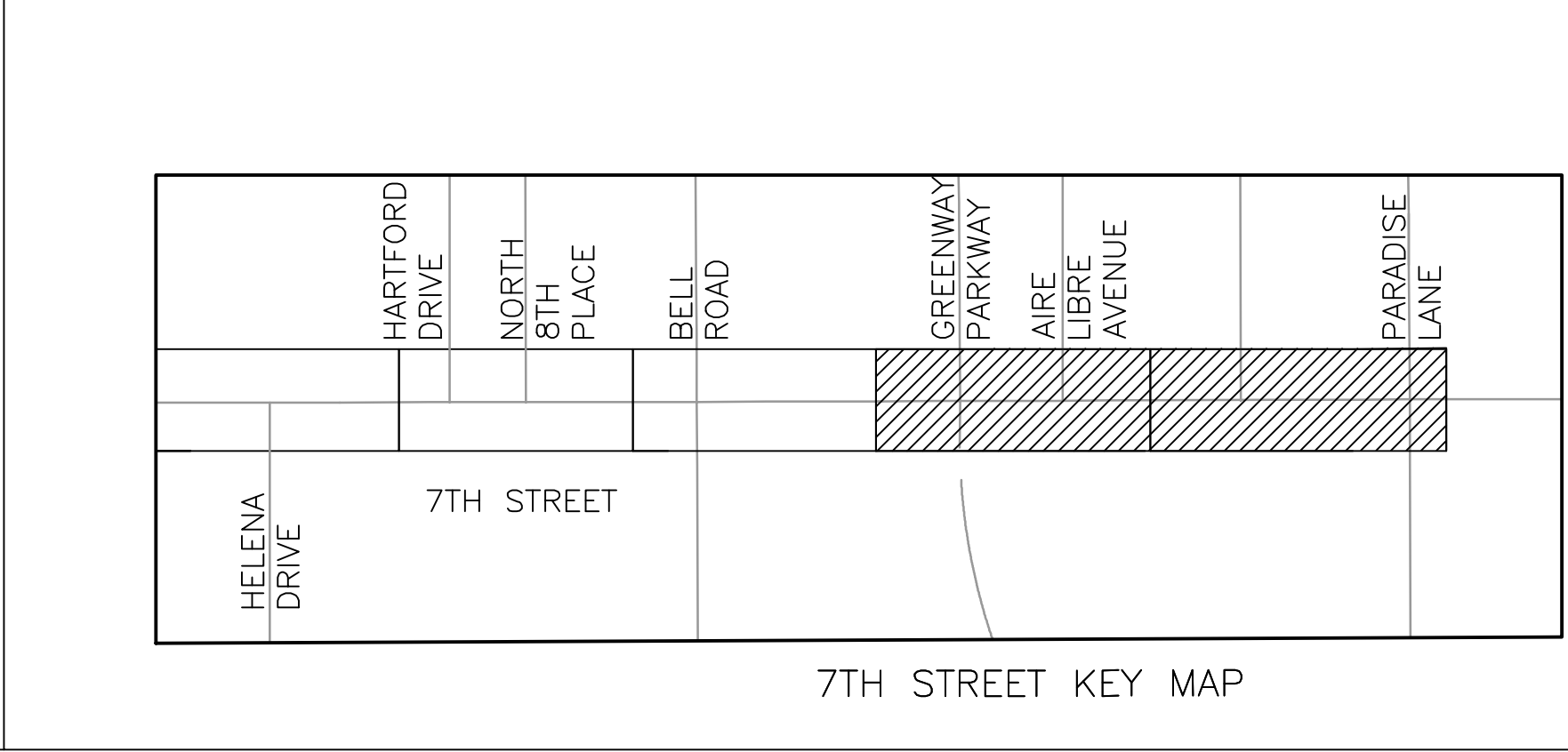
PER THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

**7TH STREET PLAN SHEET
STA 189+00 TO PROJECT END
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT**

**7TH STREET FIBER
TRANSPORTATION ENHANCEMENT
PROJECT**

DR: BJS	DES: BJS	CK: APM	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 02/24	DATE: 02/24	DATE: 02/24	NO:	32	37

SCALE: AS SHOWN



TRENCH TYPES LEGEND

A DIRECTIONAL BORE CONDUIT CROSSING MAIN STREET.

PULL BOX LOCATION SCHEDULE

PULL BOX	STATION	OFFSET
PB47	189+46	61.9' LT
PB48	191+14	51.4' LT
PB49	192+54	51.1' LT
PB50	206+22	49.4' LT
PB51	206+22	53.5' RT
PB52	206+53	49.5' LT

NOTES:

- PROPOSED CONDUIT AND EQUIPMENT SHALL MAINTAIN A 6-FOOT HORIZONTAL CLEARANCE FROM ALL EXISTING WATER/SEWER MAINS AND 3-FOOT CLEARANCE FROM ALL EXISTING WATER/SEWER SERVICE CONNECTIONS.
- REFER TO 'BURIED CONDUIT INSTALLATION AROUND OR UNDER OBSTRUCTION' NOTES 2 AND 3 FOR CONDUIT REQUIRED CLEARANCES ON PLAN SHEET 11.
- REFER TO CITY OF PHOENIX PLANNING & DEVELOPMENT DEPARTMENT STREET PAVEMENT CUT POLICY, POTHOLES POLICY SECTION ON PAGE 2 OF 4.
- THE MICRO-SEAL LIMITS AREA CORRESPONDS TO THE DESIGN QUANTITY AREA. FOR EACH LOCATION FEATURING MICRO-SEAL, THE FINAL QUANTITY WILL DECREASE AFTER CONDUCTING POTHOLES ASSESSMENTS. THE CONTRACTOR IS REQUIRED TO EVALUATE AND OBTAIN APPROVAL FROM THE ENGINEER BEFORE PROCEEDING WITH THE MICRO-SEAL APPLICATION.

BENCHMARK: DEER VALLEY ROAD & 7TH STREET
BCHH, ELEV = 1469.669
COP DATUM - COP NAVD 29

ADJUST PULL BOX LOCATION AND OPENING TO ACCOMMODATE SKEWED ENTRY FROM WINGWALL.

GREENTRAILS FINAL PLAT BOOK 203, PAGE 49, MCR

GREENTRAILS FINAL PLAT BOOK 203, PAGE 49, MCR

7TH STREET KEY MAP

7TH STREET FIBER TRANSPORTATION
ENHANCEMENT PROJECT - PHASE 1
PHOENIX STREET - MARICOPA CO.

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	33	37	
				645 E. MISSOURI AVE., STE. 420, PHOENIX, ARIZONA 85012 PHONE: 602-297-8732 EMAIL: INFO@TERRASCOPE.US TERRASCOPECONSULTING.COM	
DESIGN: ---	DRAWN: SM	CHECKED: MR			
DATE:	DATE: 4/23	DATE: 4/23			

METADATA
COORDINATE SYSTEM - BASED ON STATE PLANE COORDINATE SYSTEM "ARIZONA CENTRAL 0202", GEOID MODEL 12B (CONUS), HELD AT POINT #101.

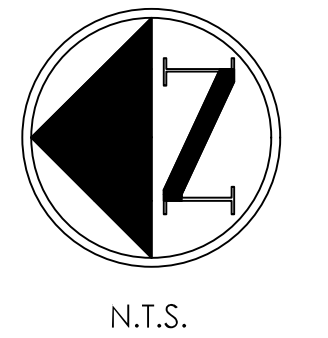
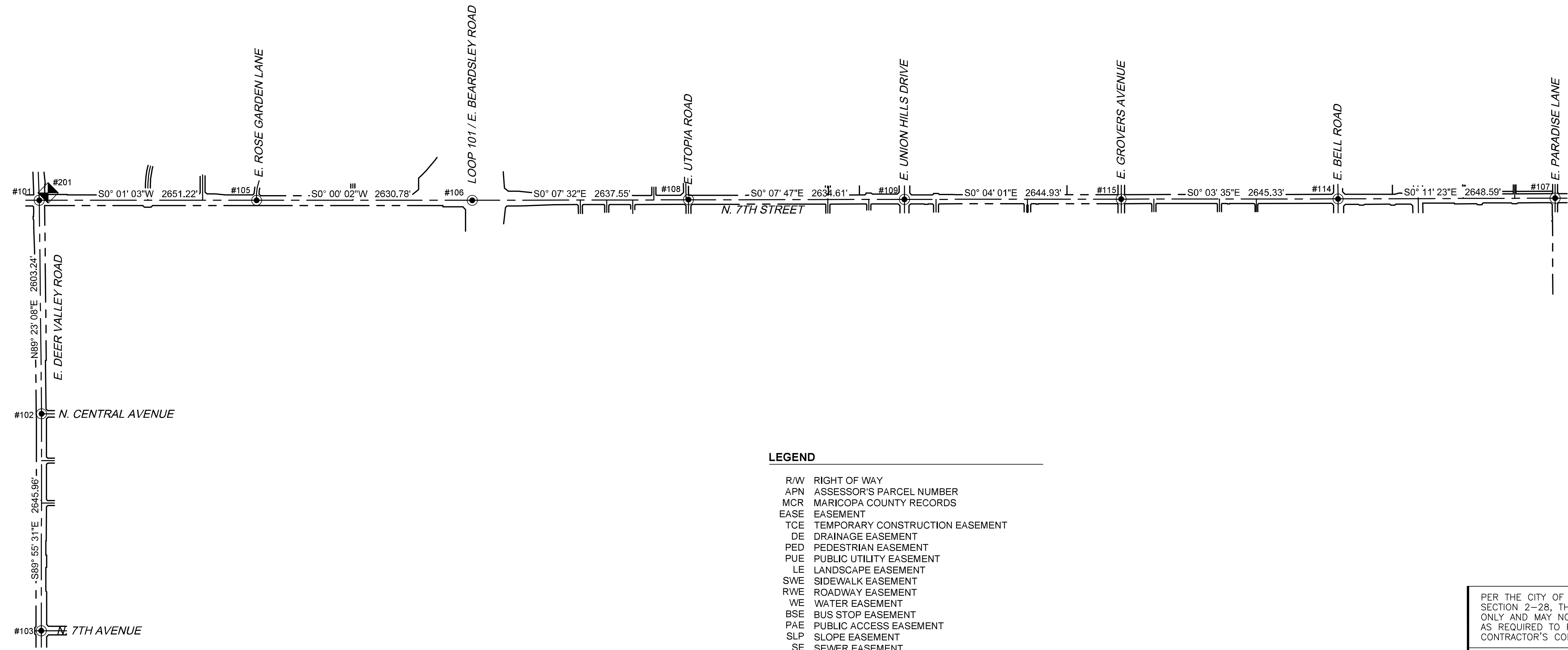
BASIS OF BEARING - S 00°01'03" W - BEING THE EAST LINE OF THE NORTHEAST QUARTER OF SECTION 20, TOWNSHIP 4 NORTH, RANGE 3 EAST, GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, POINT #101 TO POINT #105.

BENCHMARK - CITY OF PHOENIX BRASS CAP IN HANDHOLE AT THE INTERSECTION OF 7TH STREET & DEER VALLEY ROAD (NEAR SECTION CORNER, BEING A SEPARATE MONUMENT), COP ID #1695. ELEV = 1469.67' (COP NAVD 29), POINT #201.

NOTES
RIGHT OF WAY SHOWN ON THIS MAP WAS GENERATED USING RECORD DATA FROM CITY OF PHOENIX QUARTER SECTION MAPS AND THE MARICOPA COUNTY GIS WEBSITE.

EASEMENTS SHOWN ON THIS MAP WER GENERATED PER THE CITY OF PHOENIX QUARTER SECTION MAPS.

#	NORTHING	EASTING	ELEV	DESCRIPTION	SECTIONAL INFORMATION
#101	976371.462	654681.090	1470.104	"MARICOPA COUNTY" BRASS CAP FLUSH	NW COR. SEC 20, T4N, R3E
#102	976343.610	652077.557	1459.060	"CITY OF PHOENIX" BRASS CAP FLUSH	W 1/4 COR. SEC 20, T4N, R3E
#103	976347.037	649432.006	1448.837	"CITY OF PHOENIX" BRASS CAP IN HANDHOLE	SW COR. SEC 20, T4N, R3E
#105	973720.245	654680.278	1454.099	"CITY OF PHOENIX" BRASS CAP IN HANDHOLE	E 1/4 COR. SEC 20, T4N, R3E
#106	971089.470	654680.252	1438.399	"ADOT 22282" ALUMINUM CAP FLUSH	SE COR. SEC 20, T4N, R3E
#107	957878.490	654706.609	1374.954	"CITY OF PHOENIX" BRASS CAP IN HANDHOLE	E 1/4 COR. SEC 5, T3N, R3E
#108	968451.931	654686.029	1422.076	"CITY OF PHOENIX" BRASS CAP IN HANDHOLE	E 1/4 COR. SEC 29, T4N, R3E
#109	965817.328	654691.997	1405.106	"CITY OF PHOENIX" BRASS CAP IN HANDHOLE	SE COR. SEC 29, T4N, R3E
#114	960527.066	654697.838	1378.780	"CITY OF PHOENIX" BRASS CAP IN HANDHOLE	SE COR. SEC 32, T4N, R3E
#115	963172.395	654695.087	1390.013	"CITY OF PHOENIX" BRASS CAP IN HANDHOLE	E 1/4 COR. SEC 32, T4N, R3E
#201	976370.557	654682.056	1469.669	"CITY OF PHOENIX" BRASS CAP IN HANDHOLE (BENCHMARK)	



LEGEND

R/W	RIGHT OF WAY
APN	ASSESSOR'S PARCEL NUMBER
MCR	MARICOPA COUNTY RECORDS
EASE	EASEMENT
TCE	TEMPORARY CONSTRUCTION EASEMENT
DE	DRAINAGE EASEMENT
PED	PEDESTRIAN EASEMENT
PUE	PUBLIC UTILITY EASEMENT
LE	LANDSCAPE EASEMENT
SWE	SIDEWALK EASEMENT
RWE	ROADWAY EASEMENT
WE	WATER EASEMENT
BSE	BUS STOP EASEMENT
PAE	PUBLIC ACCESS EASEMENT
SLP	SLOPE EASEMENT
SE	SEWER EASEMENT
RUE	RECREATIONAL USE EASMENT



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 PLAN
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

7TH STREET FIBER TRANSPORTATION ENHANCEMENT PROJECT - PHASE 1

DR: SM	DES: ---	CK: MR	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 04/23	DATE: 04/23	DATE: 04/23	NO:	33	37
SCALE: NTS				33	37

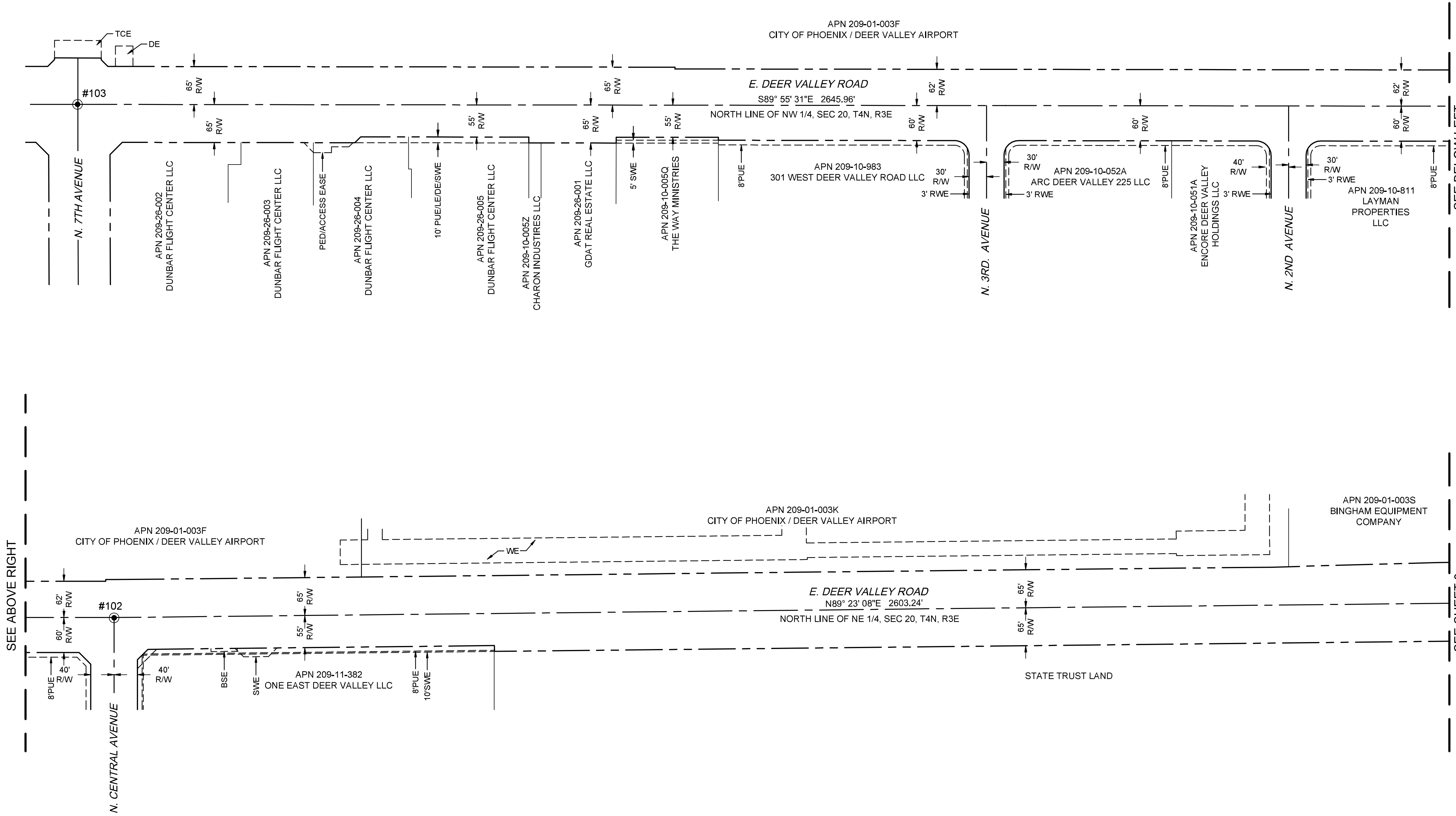
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
	NO.			
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
	NO.			
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
	NO.			

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

7TH STREET FIBER TRANSPORTATION
ENHANCEMENT PROJECT - PHASE 1
PHOENIX STREET - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	34	37	
43943 Mitchell H. Ragsdale 3/27/23 State of Arizona		Terrascope <small>civil engineering - surveying - video mapping</small> 645 E. MISSOURI AVE., STE. 420, PHOENIX, ARIZONA 85012		PHONE: 602-297-8732 EMAIL: INFO@TERRASCOPE.US TERRASCOPECONSULTING.COM	
DESIGN: ---	DRAWN: SM	CHECKED: MR			
DATE:	DATE: 4/23	DATE: 4/23			



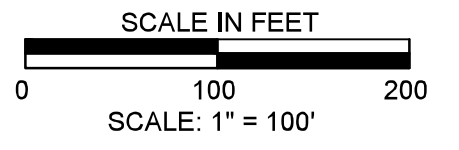
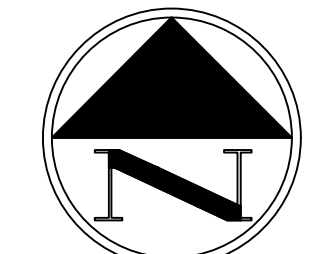
SEE ABOVE RIGHT

SEE BELOW LEFT

SEE SHEET 3

LEGEND

R/W	RIGHT OF WAY
APN	ASSESSOR'S PARCEL NUMBER
MCR	MARICOPA COUNTY RECORDS
EASE	EASEMENT
TCE	TEMPORARY CONSTRUCTION EASEMENT
DE	DRAINAGE EASEMENT
PED	PEDESTRIAN EASEMENT
PUE	PUBLIC UTILITY EASEMENT
LE	LANDSCAPE EASEMENT
SWE	SIDEWALK EASEMENT
RWE	ROADWAY EASEMENT
WE	WATER EASEMENT
BSE	BUS STOP EASEMENT
PAE	PUBLIC ACCESS EASEMENT
SLP	SLOPE EASEMENT
SE	SEWER EASEMENT
RUE	RECREATIONAL USE EASMENT



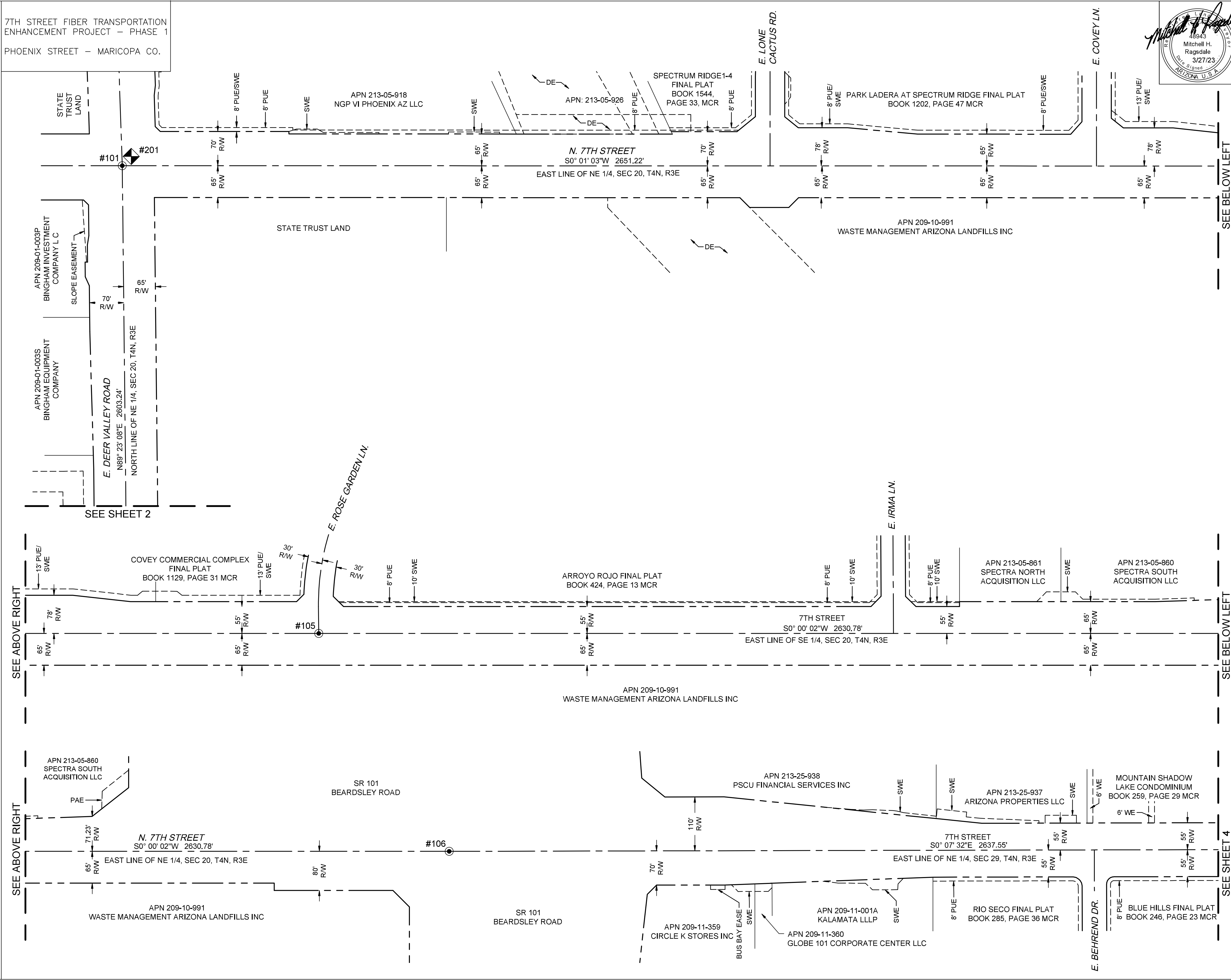
PER THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

RIGHT OF WAY PLAN
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

7TH STREET FIBER
TRANSPORTATION ENHANCEMENT
PROJECT - PHASE 1

DR: SM	DES: ---	CK: MR	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 04/23	DATE: 04/23	DATE: 04/23	NO: 34	37	
SCALE: 1" = 100'					

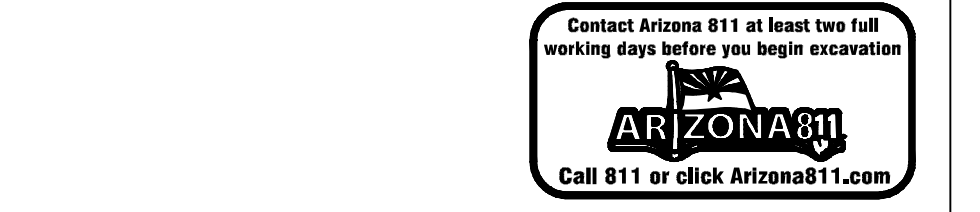
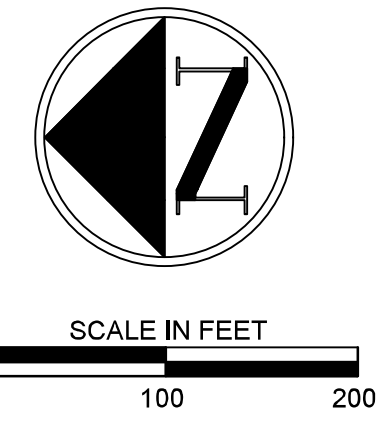
REVISION BY CITY OF PHOENIX	NO.	DESCRIPTION	REV BY	CHK BY	DATE



F.H.W.A. REGION 9	STATE ARIZ.	PROJECT NO. ST89340660-1	SHEET NO. 35	TOTAL SHEETS 37	AS BUILT
		645 E. MISSOURI AVE., STE. 420, PHOENIX, ARIZONA 85012	PHONE: 602-297-8732 EMAIL: INFO@TERRASCAPE.US TERRASCAPECONSULTING.COM		
DESIGN: ---	DRAWN: SM	CHECKED: MR			
DATE:	DATE: 4/23	DATE: 4/23			

LEGEND

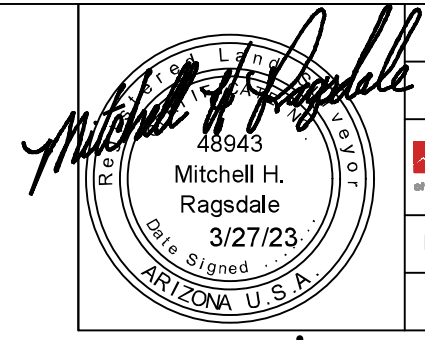
- R/W RIGHT OF WAY
- APN ASSESSOR'S PARCEL NUMBER
- MCR MARICOPA COUNTY RECORDS
- EASE EASEMENT
- TCE TEMPORARY CONSTRUCTION EASEMENT
- DE DRAINAGE EASEMENT
- PED PEDESTRIAN EASEMENT
- PUE PUBLIC UTILITY EASEMENT
- LE LANDSCAPE EASEMENT
- SWE SIDEWALK EASEMENT
- RWE ROADWAY EASEMENT
- WE WATER EASEMENT
- BSF BUS STOP EASEMENT
- PAE PUBLIC ACCESS EASEMENT
- SLP SLOPE EASEMENT
- SE SEWER EASEMENT
- RUE RECREATIONAL USE EASMENT



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.

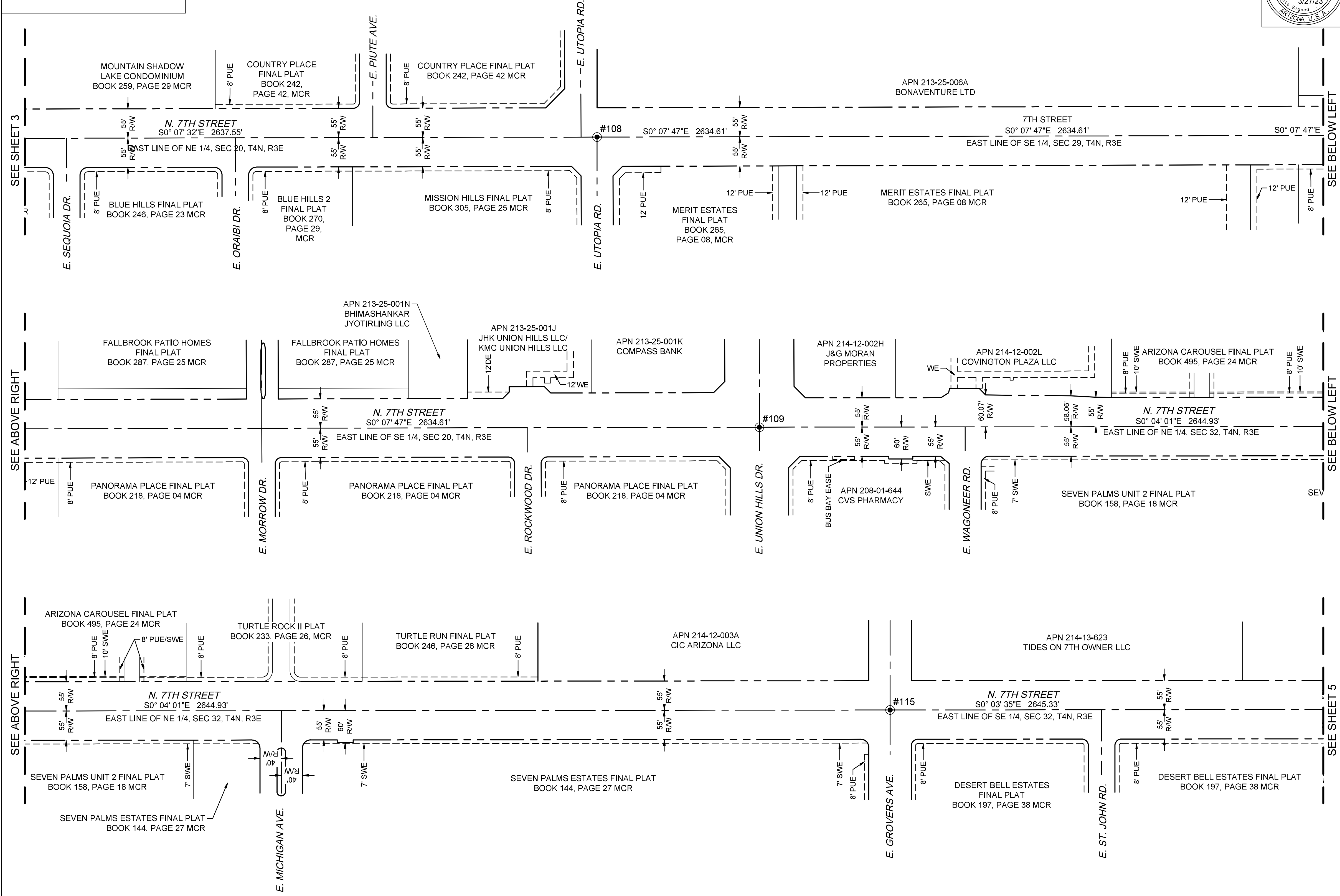
RIGHT OF WAY PLAN					
CITY OF PHOENIX, ARIZONA					
STREET TRANSPORTATION DEPARTMENT					
7TH STREET FIBER TRANSPORTATION ENHANCEMENT PROJECT - PHASE 1					
DR: SM	DES: ---	CK: MR	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 04/23	DATE: 04/23	DATE: 04/23	NO:	35	37
SCALE: 1" = 100'					

7TH STREET FIBER TRANSPORTATION ENHANCEMENT PROJECT - PHASE 1
PHOENIX STREET - MARICOPA CO.



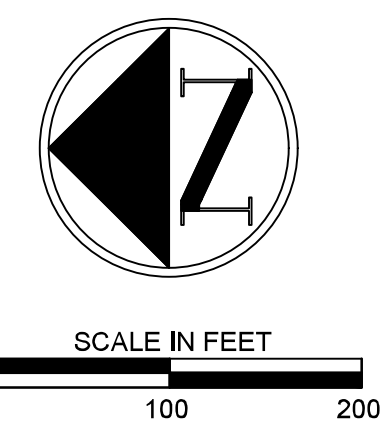
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.	ST89340660-1	36	37	
TERRASCOPE		645 E. MISSOURI AVE., STE. 420, PHOENIX, ARIZONA 85012	PHONE: 602-297-8732 EMAIL: INFO@TERRASCOPE.US TERRASCOPECONSULTING.COM		
DESIGN: ---	DRAWN: SM	CHECKED: MR			
DATE:	DATE: 4/23	DATE: 4/23			

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



LEGEND

- R/W RIGHT OF WAY
- APN ASSESSOR'S PARCEL NUMBER
- MCR MARICOPA COUNTY RECORDS
- EASE EASEMENT
- TCE TEMPORARY CONSTRUCTION EASEMENT
- DE DRAINAGE EASEMENT
- PED PEDESTRIAN EASEMENT
- PUE PUBLIC UTILITY EASEMENT
- LE LANDSCAPE EASEMENT
- SWE SIDEWALK EASEMENT
- RWE ROADWAY EASEMENT
- WE WATER EASEMENT
- BSE BUS STOP EASEMENT
- PAE PUBLIC ACCESS EASEMENT
- SLP SLOPE EASEMENT
- SE SEWER EASEMENT
- RUE RECREATIONAL USE EASMENT



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.

RIGHT OF WAY PLAN					
CITY OF PHOENIX, ARIZONA					
STREET TRANSPORTATION DEPARTMENT					
7TH STREET FIBER TRANSPORTATION ENHANCEMENT PROJECT - PHASE 1					
DR: SM	DES: ---	CK: MR	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 04/23	DATE: 04/23	DATE: 04/23	NO:	36	37
SCALE: 1" = 100'					

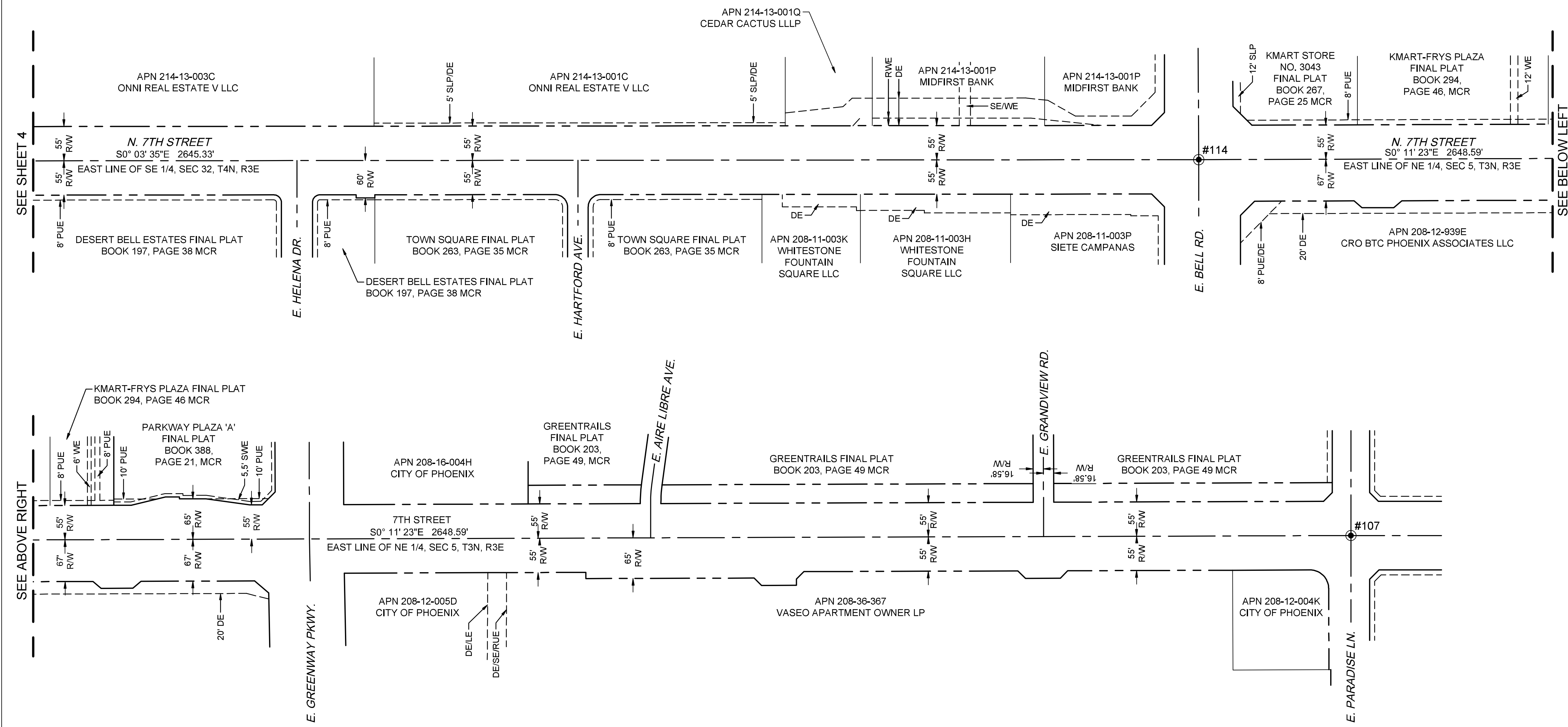
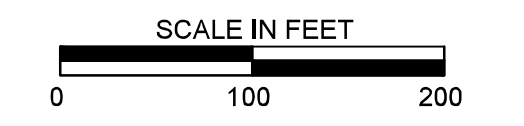
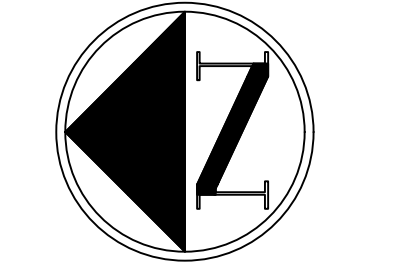
7TH STREET FIBER TRANSPORTATION
ENHANCEMENT PROJECT - PHASE 1
PHOENIX STREET - MARICOPA CO.



F.H.W.A. REGION 9	STATE ARIZ.	PROJECT NO. ST89340660-1	SHEET NO. 37	TOTAL SHEETS 37	AS BUILT
645 E. MISSOURI AVE., STE. 420, PHOENIX, ARIZONA 85012		PHONE: 602-297-8732 EMAIL: INFO@TERRASCAPE.US TERRASCAPECONSULTING.COM			
DESIGN: ---	DRAWN: SM	CHECKED: MR			
DATE:	DATE: 4/23	DATE: 4/23			

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

- LEGEND**
- R/W RIGHT OF WAY
 - APN ASSESSOR'S PARCEL NUMBER
 - MCR MARICOPA COUNTY RECORDS
 - EASE EASEMENT
 - TCE TEMPORARY CONSTRUCTION EASEMENT
 - DE DRAINAGE EASEMENT
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RIGHT OF WAY PLAN

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

**7TH STREET FIBER
TRANSPORTATION ENHANCEMENT
PROJECT - PHASE 1**

DR: SM	DES: ---	CK: MR	SHEET NO:	TOTAL SHEETS	AS BUILT
DATE: 04/23	DATE: 04/23	DATE: 04/23	NO:	37	37
SCALE: 1" = 100'					