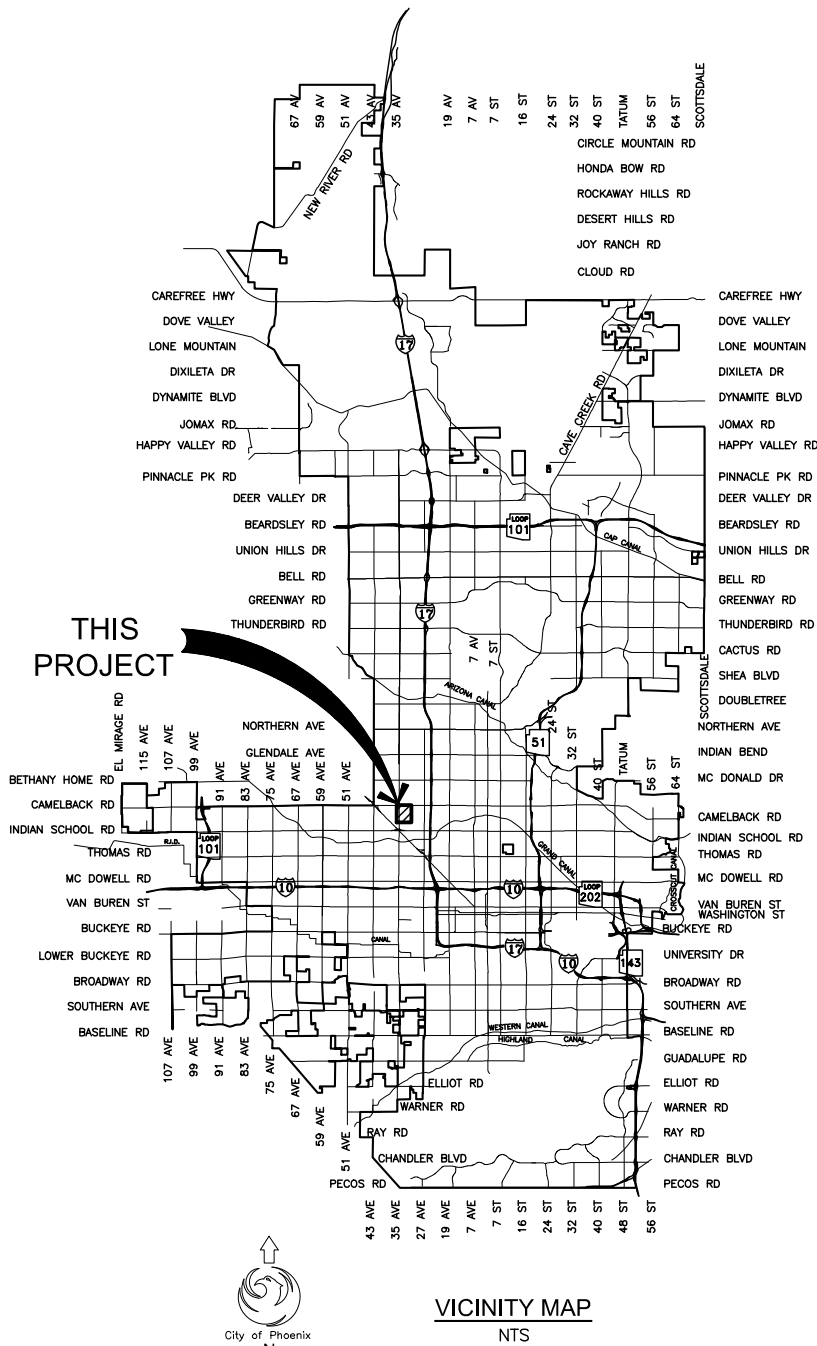


CITY OF PHOENIX
WATER SERVICES DEPARTMENT
35TH AVENUE AND CAMELBACK ROAD
RELIEF SEWER

WS90500303



2024



VICINITY MAP
NTS

APPROVALS

CITY OF PHOENIX
CITY ENGINEER

01/25/2024
DATE

CITY OF PHOENIX
WATER SERVICES DEPARTMENT

01/25/2024
DATE

MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT
WWR-23-00653

01-24-2024
DATE

COP INSPECTION STAMP

CITY PROJECT MANAGER _____
CITY INSPECTOR _____
CONTRACTOR _____
DATE OF SUBSTANTIAL COMPLETION _____

AS BUILT CERTIFICATION

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

REGISTERED ENGINEER _____ REGISTRATION NUMBER _____ DATE _____



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	WS90500303	1	26	
2432 W. PEORIA AVENUE, SUITE 1246 PHOENIX, AZ 85029 Ph: (602) 906-1901					
DES	MM	DR: JG	CK: TOB	DATE: 01/24	

MAYOR
KATE GALLEG0

CITY MANAGER
JEFFREY BARTON

CITY COUNCIL

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

CITY ENGINEER
ERIC J. FROBERG, PE

WATER SERVICE DIRECTOR
TROY HAYES, PE

INDEX OF SHEETS

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CITY BENCHMARKS:

31ST AVENUE AND CAMELBACK ROAD
BRASS CAP IN HANDHOLE
ELEVATION 1140.369 (NGVD-29) PHOENIX DATUM

35TH AVENUE AND CAMELBACK AVENUE,
30' SOUTH OF INTERSECTION
BRASS CAP IN HANDHOLE
ELEVATION 1125.30 (NGVD-29) PHOENIX DATUM

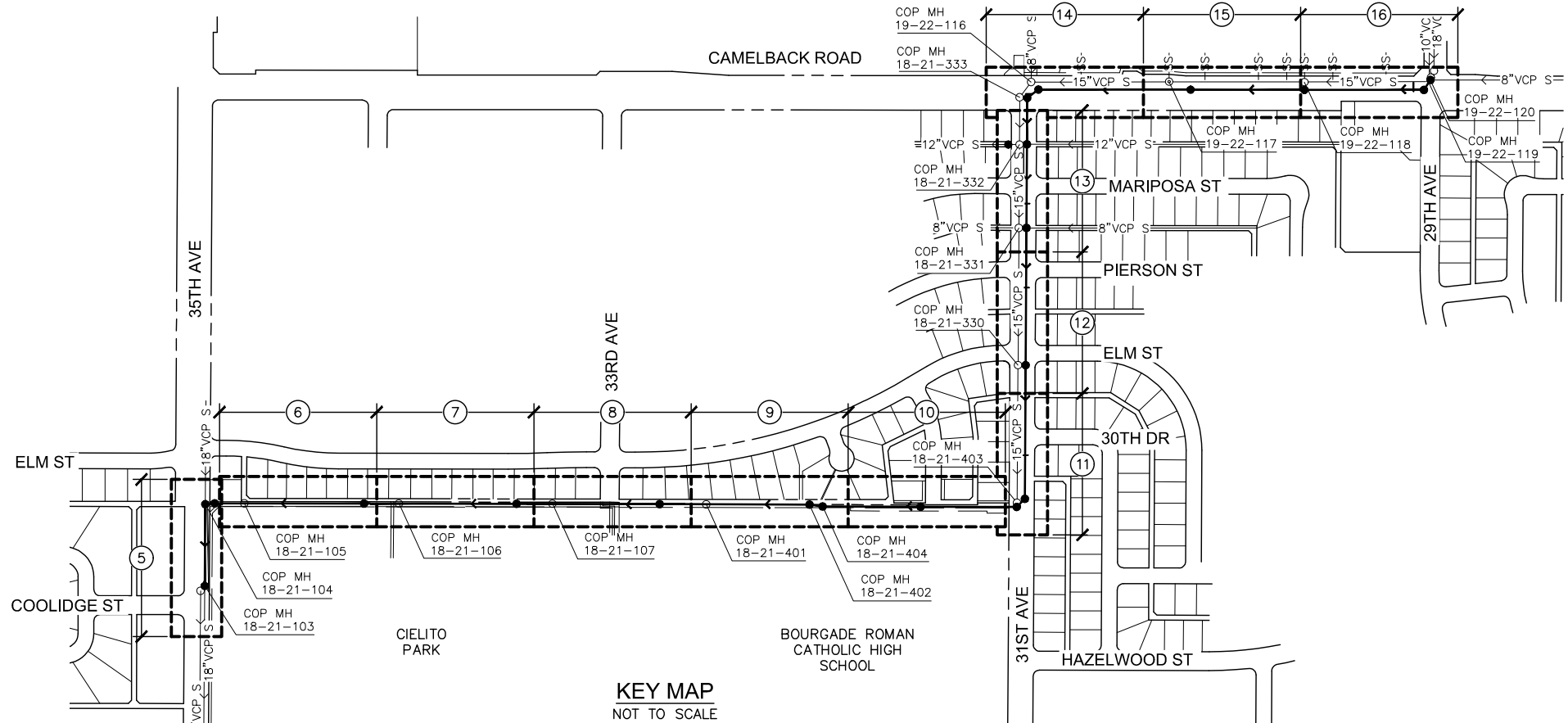


PER CITY OF PHOENIX CITY CODE, CHAPTER 2, SECTION 2-28. THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX

WS90500303: 35TH AVENUE AND CAMELBACK ROAD RELIEF SEWER. Q.S. 18-21, 18-22, 19-22



 **conсор** 2432 W. PEORIA AVENUE, SUITE 1246
PHOENIX, AZ 85029
Ph: (602) 906-1901



AC	ASPHALT CONCRETE	G	GAS	S	SOUTH
ABD	ABANDONED	GLO	GOVERNMENT LAND OFFICE	SD	STORM DRAIN
ACP	ASBESTOS CLAY PIPE	H	HEIGHT	SDR	STANDARD DIMENSION RATIO
BC	BRASS CAP	HDPE	HIGH DENSITY POLYETHYLENE	SDWK	SIDEWALK
BCF	BRASS CAP FLUSH	HH	HANDHOLE	SHT	SHEET
BM	BENCHMARK	HORIZ	HORIZONTAL	SPEC	SPECIFICATION(S)
BOU	BOTTOM OF UTILITY	ID	INNER DIAMETER	SRP	SALT RIVER PROJECT
BTTM	BOTTOM	IE	INVERT ELEVATION	SS	SANITARY SEWER
C	CONCRETE	IR / IRR	IRRIGATION	STA	STATION
CATV	CABLE TELEVISION	L / LT	LEFT	STD	STANDARD
CIP	CAST IRON PIPE	LAT	LATERAL	STL	STEEL
C/L	CENTER LINE	LF	LINEAR FOOT OR LINEAR FEET	STRM DRN	STORM DRAIN
CLSM	CONTROLLED LOW STRENGTH MATERIAL	MAG	MARICOPA ASSOCIATION OF GOVERNMENTS	SUE	SUBSURFACE UTILITY EXPLORATION
CNDTS	CONDUITS	MH	MANHOLE	SUPP	SUPPLEMENT(S)
COMM	COMMUNICATION	N	NORTH	SVC	SERVICE
COP	CITY OF PHOENIX	NIC	NOT IN CONTRACT	SW	SOUTHWEST
CST	CONSTRUCTION	NPI	NON PAY ITEM	S / SWR	SEWER
CTL	CENTURY LINK	OHE	OVERHEAD ELECTRIC	TBM	TEMPORARY BENCH MARK
DB / DBNK	DUCT BANK	P	PAVEMENT	TCE	TEMPORARY CONSTRUCTION EASEMENT
DET / DTL	DETAIL	PCCP	PRESTRESSED CONCRETE CYLINDER PIPE	TEL	TELEPHONE
DIP	DUCTILE IRON PIPE	PE	POLYETHYLENE	TN / T/N	TOP OF NUT
DOC	DOCUMENT	PUE	PUBLIC UTILITY EASEMENT	TOU	TOP OF UTILITY
DR	DIMENSION RATIO	R / RT	RIGHT	TSG	TRAFFIC SIGNAL
DWG	DRAWING	RCP	REINFORCED CONCRETE PIPE	TS / TRAF	TYPICAL
E	END OR EAST	RGRCP	RUBBER GASKET REINFORCED CONCRETE PIPE	TY	UNDERGROUND ELECTRIC
ELEC	ELECTRIC OR ELECTRICAL	R/W	RIGHT OF WAY	UGE	UNKNOWN
ELEV	ELEVATION			UNK	
EOP	EDGE OF PAVEMENT			VERT	VERTICAL
ESMT	EASEMENT			VCP	VITRIFIED CLAY PIPE
EX / EXIST	EXISTING			W	WEST
				W/	WITH
				W / WTR	WATER
				WV	WATER VALVE

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

REGISTERED ENGINEER	REGISTRATION NUMBER	DATE
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35TH AVENUE AND CAMELBACK ROAD RELIEF SEWER

CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

LEGEND, ABBREVIATIONS & KEY MAP

DR: JG	DES: MM	CK: TOB	SHEET NO.	TOTAL SHEETS
DATE: 01/24	DATE: 01/24	DATE: 01/24		
SCALE: HORIZ VERT			2	26

**CONTACT ARIZONA 811 AT LEAST TWO FULL
WORKING DAYS BEFORE YOU BEGIN EXCAVATION**

ARIZONA811

CALL 811 OR CLICK ARIZONA811.COM

35TH AVENUE AND CAMELBACK ROAD
RELIEF SEWER

PHOENIX STREET – MARICOPA CO.

QUARTER SECTION NO. 18–21, 18–22
19–22

REVISION BY CITY OF PHOENIX

REV BY CNO BY DATE

DESCRIPTION

NO.

REVISION BY CITY OF PHOENIX

REV BY CNO BY DATE

DESCRIPTION

NO.

REVISION BY CITY OF PHOENIX

REV BY CNO BY DATE

DESCRIPTION

NO.

CITY OF PHOENIX PAVING NOTES:

1. COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601.

2. CONSTRUCTION WITHIN THE RIGHT–OF–WAY SHALL CONFORM TO THE LATEST APPLICABLE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS.

3. THE ENGINEERING DESIGN ON THESE PLANS IS ONLY APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY THE CITY. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES. IN ADDITION, THE PROPERTY OWNER MUST DEDICATE STREETS IN ACCORDANCE WITH MINIMUM RIGHT–OF–WAY STANDARDS MAP (ORDINANCE NO. 437, LATEST AMENDMENT).

4. PLAN APPROVAL IS VALID FOR 12 MONTHS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.

5. THE CITY OF PHOENIX SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONSTRUCTION WORK WITHIN THE PUBLIC RIGHT–OF–WAY.

6. EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT–OF–WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.

7. ALL NEW OR RELOCATED UTILITIES SHALL BE PLACED UNDERGROUND.

8. THE ACTUAL POINT OF PAVEMENT MATCHING, AND/OR TERMINATION, SHALL BE DETERMINED IN THE FIELD BY THE CITY INSPECTOR.

9. AN APPROVED PAVING PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.

10. OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT–OF–WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.

11. ALL EXISTING CATCH BASINS MUST BE RE–LOCATED WHEN THEY ARE SHOWN IN A NEWLY PROPOSED DRIVEWAY.

12. CONSTRUCTION OF SURFACE IMPROVEMENTS SHALL NOT BEGIN UNTIL CONFLICTING UNDERGROUND UTILITY CONSTRUCTION IS COMPLETED AND SERVICE CONNECTIONS TO ALL PLATTED LOTS HAVE BEEN ADEQUATELY EXTENDED PAST THE RIGHT–OF WAY.

13. THE CONTRACTOR SHALL ARRANGE FOR THE RELOCATION AND RELOCATION COSTS OF ALL UTILITIES, INCLUDING ANY STREET LIGHTS, AND SUBMIT A UTILITY RELOCATION SCHEDULE PRIOR TO THE ISSUANCE OF A CONSTRUCTION PERMIT. RELOCATION OF WATER METERS SHALL BE DONE BY THE WATER SERVICES DEPARTMENT AFTER PAYMENT OF PREVAILING FEES. RELOCATION OF CITY FIRE HYDRANTS REQUIRE A SEPARATE PLAN REVIEW AND PERMIT AT THE CONTRACTOR'S EXPENSE.

14. ALL FRAMES, COVERS, VALVE BOXES, AND MANHOLE COVERS SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO COMPLETION OF PAVING OR RELATED CONSTRUCTION. ADJUSTMENT OF EXISTING "TYPE A" OR "TYPE B" WATERLINE VALVE BOXES IN THE PARKWAY SHALL BE CONSIDERED INCIDENTAL TO PARKWAY GRADING. EXISTING "TYPE B" WATERLINE VALVE BOXES SHALL BE REPLACED WITH "TYPE A" BOXES PER COP STANDARD DETAIL P1391.

15. GRADING BETWEEN BACK OF CURB AND PROPERTY LINE SHALL BE LIMITED TO 4:1 SLOPE.

16. CERTIFICATE OF OCCUPANCY (C OF O) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS DENIED UNTIL ALL OFFSITE IMPROVEMENTS ARE COMPLETED.

17. TREES AND SHRUBBERY IN THE RIGHT–OF–WAY THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE CITY LANDSCAPE ARCHITECT. THE PERMIT HOLDER SHALL BE RESPONSIBLE FOR OBTAINING AUTHORIZATION TO REMOVE AND/OR RELOCATE SAID TREES OR SHRUBBERY BY CALLING THE PARKS & RECREATION DEPARTMENT PRIOR TO ANY RIGHT–OF–WAY PLANT RELOCATIONS AT 602–262–6862.

18. THE CONTRACTOR MUST CONTACT STREET TRANSPORTATION DEPARTMENT, TRAFFIC SERVICES DIVISION AT 602–495–0205 VOICE OR 602–534–5500 TTY TWO (2) WEEKS PRIOR TO COMPLETION OF PAVING WORK FOR SIGNING & STRIPING.

19. AUTHORIZATION TO RESTRICT OR CLOSE THE RIGHT–OF–WAY CAN ONLY BE OBTAINED THROUGH THE TRAFFIC SERVICES DIVISION, RIGHT– OF– WAY MANAGEMENT SECTION. TRACS PERMITS MUST BE OBTAINED FOR EACH INDIVIDUAL PROJECT THROUGH ROWM. TRACS PERMITS ARE APPROVED BASED ON THE PHASING OF THE PROJECT AND THE SCOPE OF WORK. PERMISSION TO RESTRICT CITY STREETS, SIDEWALKS AND ALLEYS (STREET CLOSURE PERMITS) SHALL BE REQUESTED AS SPECIFIED IN CHAPTER 2 OF THE TRAFFIC BARRICADE MANUAL, 9TH EDITION AND ADDENDUMS THEREOF.

20. ASPHALT RESTORATION IS REQUIRED FOR ANY STREET CUT. REFER TO STREET PAVEMENT CUT POLICY (TRT 00164 AND ORDINANCE G–6308).

21. STREET PAVEMENT CUTS IN THE CITY RIGHT OF WAY WILL REQUIRE ASPHALT RESURFACING TREATMENT PER SECTION 31–49.1 OF THE PHOENIX CITY CODE AND THE LATEST COP PAVEMENT CUT POLICY.

CITY OF PHOENIX SEWER NOTES:

1. THE INSPECTOR FOR THE CITY SHALL BE NOTIFIED 48 HOURS BEFORE CONSTRUCTION BEGINS.

2. ANY SEWER MAIN 15 INCH IN SIZE OR 12 FEET IN DEPTH, OR GREATER, REQUIRES 5' MANHOLES.

3. ALL MANHOLES NEWLY CONSTRUCTED OR EXISTING THAT ARE WORKED IN FOR CONNECTIONS SHALL BE PAINTED WITH INSECTICIDE PAINT PER CITY OF PHOENIX SUPPLEMENT TO MAG SECTION 627.

4. MANHOLES WITH 60" DIAMETER AND PIPE GREATER THAN 12" REQUIRE COATING PER COP SUPPLEMENT 626. ANY EXISTING MANHOLES WITH CORROSION COATING THAT ARE DISTURBED OR ADJUSTED TO NEW FINISH GRADES SHALL HAVE ANY DAMAGED COATING REPAIRED, INCLUDING ALL ADJUSTING RINGS.

5. THIS SET OF PLANS HAS BEEN INITIALLY REVIEWED BY THE CITY OF PHOENIX, SUCH REVIEW IS PART OF THE PROCESS THAT DEVELOPER(S)/CONTRACTOR(S) MUST GO THROUGH IN ORDER TO OBTAIN A CONSTRUCTION PERMIT. THE RESULTS OF SUCH INITIAL REVIEW SHALL NOT DICTATE THE CITY OF PHOENIX'S FINAL DETERMINATION AS TO THE ACCEPTABILITY OF THE PLANS, NOR SHALL IT PREVENT THE CITY OF PHOENIX FROM REQUIRING ERRORS AND OMISSIONS, AS FOUND ON PLANS, BE ADDRESSED BE DEVELOPER(S) / CONTRACTOR(S), WHERE SUCH ERRORS AND OMISSIONS CAUSE THE PLANS TO BE IN VIOLATION OF OR INADEQUATE UNDER APPLICABLE FEDERAL/STATE/COUNTY/LOCAL CODES, ORDINANCES, REGULATIONS OR OTHER LAWS. THIS REVIEWED AND STAMPED SET OF PLANS MUST BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.

6. ALL CONSTRUCTION IN CITY OF PHOENIX RIGHT–OF–WAY, OR EASEMENT, IS TO CONFORM TO MAG SPECIFICATIONS AND DETAILS AND CITY OF PHOENIX SUPPLEMENT TO MAG SPECIFICATIONS AND DETAILS, UNLESS MODIFIED ON THE PLANS.

7. ALL SEWER MAINS MUST HAVE A TV INSPECTION BEFORE ACCEPTED AS COMPLETE (SEE CITY OF PHOENIX SUPPLEMENT TO MAG SPECIFICATION SECTION 615.11(C)).

8. TRAFFIC REGULATIONS: ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE CURRENT CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL".

9. THE FOLLOWING MAG DETAILS ARE SPECIFICALLY NOT APPROVED.
425 24" ALUMINUM FRAME AND COVER

10. NEW MANHOLES ARE TO BE BUILT WITHOUT STEPS.

11. COMPACTION SHALL COMPLY WITH MAG SECTION 601 AND CITY OF PHOENIX SUPPLEMENTS.

12. NEW SEWER LINES ARE TO BE BUILT IN ACCORDANCE WITH CITY OF PHOENIX "STANDARD UTILITY LOCATIONS" OR AS SHOWN ON THE PLANS.

13. A SIX (6) FOOT MINIMUM HORIZONTAL SEPARATION FROM ANY UNDERGROUND UTILITY SHALL BE PROVIDE FOR SEWER MAINS, SEWER SERVICES, WATER MAINS, AND WATER SERVICES. THE MINIMUM HORIZONTAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN, SEWER SERVICE, WATER MAIN, OR WATER SERVICE TO OUTSIDE OF UNDERGROUND UTILITY.

14. A ONE (1) FOOT MINIMUM VERTICAL SEPARATION FROM ANY DRY UNDERGROUND UTILITY CROSSING SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAINS AND WATER SERVICES. THE MINIMUM VERTICAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN, SEWER SERVICE, WATER MAIN, OR WATER SERVICE TO OUTSIDE OF DRY UNDERGROUND UTILITY.

15. A TWO (2) FOOT MINIMUM VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN ANY SEWER MAIN AND STORM DRAIN CROSSING A WATER MAIN. THE MINIMUM VERTICAL SEPARATION IS MEASURED FROM OUTSIDE OF WATER MAIN TO OUTSIDE OF SEWER MAIN OR STORM DRAIN MAIN. SEE MAG STANDARD DETAIL 404 FOR ADDITIONAL INFORMATION AND OR PROVISIONS FOR CLEARANCE.

16. EXCEPTIONS OR DEVIATIONS FROM THE ABOVE MINIMUM CLEARANCES MUST BE APPROVED AND SHOWN ON THE APPROVED WATER AND SEWER PLANS. WHEN UTILITY CONFLICTS ARE FOUND DURING CONSTRUCTION, ALL CHANGES AND REVISIONS MUST BE PRECEDED BY AN APPROVED PLAN REVISION.

17. ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

18. ANY SEWER LINES THAT ARE INSTALLED WITH LESS THAN 0.004 FT/FT SLOPE MUST BE INSTALLED USING A LASER.

19. WHEN DIP SEWER PIPE IS USED, LINING IS REQUIRED PER CITY OF PHOENIX SUPPLEMENT TO MAG 750.1.

20. CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION AT NO ADDITIONAL COST TO THE CITY.

21. RECORD DRAWING SUBMITTALS MUST COMPLY WITH WATER SERVICES DEPARTMENT ENGINEERING POLICY P–85. A COPY OF THE POLICY CAN BE OBTAINED IN THE DEPARTMENT’S WEBSITE: HTTP:PHOENIX.GOV/WATERSERVICES/DESIGN/ENGPOLICIES/INDEX.HTML

22. PLAN APPROVAL IS VALID FOR 12 MONTHS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED, OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.

CITY OF PHOENIX GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CONTRACT SPECIFICATIONS; PLANS; CITY OF PHOENIX SUPPLEMENTS TO MAG STANDARD SPECIFICATIONS AND DETAILS; AND MAG STANDARD SPECIFICATIONS AND DETAILS, IN THAT ORDER OF PRECEDENCE, AT THE TIME OF CONSTRUCTION BID.

2. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND HORIZONTAL CONTROLS, ARE LOCATED ONLY APPROXIMATELY AND TO THE BEST AVAILABLE INFORMATION PROVIDED BY VARIOUS OWNERS OF THE FACILITIES, AND SUPPLEMENTED BY VISUAL SURFACE INFORMATION WHERE APPROPRIATE. ACCURACY, LOCATION AND COMPLETENESS OF THIS INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO INITIATION OF CONSTRUCTION.

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

4. VERTICAL CONTROL IS BASED ON NATIONAL GEODETIC SURVEY, NGVD 1929.

5. ALL CONSTRUCTION ACTIVITIES SHALL BE CONTAINED WITHIN THE PUBLIC RIGHT OF WAY OR IN EASEMENTS GRANTED FOR THE WATER AND/OR SEWER MAIN INSTALLATION. ANY EXISTING FEATURES DISTURBED OUTSIDE THESE LIMITS SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.

6. TRAFFIC CONTROL SHALL CONFORM TO THE CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL" AND SHALL BE SUBJECT TO CITY REVIEW AND APPROVAL.

7. ANY WORK BETWEEN 7:00 PM – 7:00 AM (BETWEEN OCTOBER 1ST – APRIL 30TH) OR 7:00 PM TO 6:00 AM (BETWEEN MAY 1ST – SEPTEMBER 30TH) IN THE RIGHT OF WAY (ARTERIAL AND COLLECTOR STREETS) REQUIRES AN AFTER HOURS WORK PERMIT. CONSTRUCTION IN LOCAL (RESIDENTIAL) STREETS AFTER HOURS IS PROHIBITED.

CITY OF PHOENIX ENVIRONMENTAL NOTES

1. CONTRACTOR, SUBCONTRACTORS, AND ALL FIELD PERSONNEL SHALL BE PROVIDED THE MIGRATORY BIRD TREATY ACT FLYER. IF TREES OR SHRUBS WILL BE TRIMMED OR REMOVED BETWEEN FEBRUARY 1 AND AUGUST 31, OR IF AN ACTIVE BIRD NEST IS PRESENT IN THE WORK AREA, WORK SHALL CEASE WITHIN 100 FEET AND THE CITY OF PHOENIX ENVIRONMENTAL QUALITY SPECIALIST (ANDREA LOVE [602–495–6718] OR JAMES MARSHALL [602–534–3747]) SHALL BE NOTIFIED IMMEDIATELY.

2. CONTRACTOR, SUBCONTRACTORS, AND ALL FIELD PERSONNEL SHALL BE PROVIDED THE WESTERN BURROWING OWL FLYER. IF BURROWING OWLS OR POTENTIALLY ACTIVE BURROWS (NATURAL OR MAN–MADE HOLES 3–INCH DIAMETER OR GREATER) ARE OBSERVED DURING CONSTRUCTION, WORK SHALL CEASE WITHIN 100 FEET AND THE CITY OF PHOENIX ENVIRONMENTAL QUALITY SPECIALIST (ANDREA LOVE [602–495–6718] OR JAMES MARSHALL [602–534–3747]) SHALL BE NOTIFIED IMMEDIATELY.

3. NO CHANGES TO PROJECT SCOPE, PROJECT LIMITS, OR FOOTPRINT IS ALLOWABLE IN THE FIELD DURING CONSTRUCTION WITHOUT PRIOR COORDINATION WITH AND AUTHORIZATION BY THE CITY OF PHOENIX ENVIRONMENTAL QUALITY SPECIALIST (ANDREA LOVE [602–495–6718] OR JAMES MARSHALL [602–534–3747]).

4. IF ANY ARCHAEOLOGICAL MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL CEASE ALL GROUND–DISTURBING ACTIVITIES WITHIN 10 METERS OF THE DISCOVERY AND THE CITY OF PHOENIX ARCHAEOLOGY OFFICE (602–534–153) AND CITY OF PHOENIX ENVIRONMENTAL QUALITY SPECIALIST (ANDREA LOVE [602–495–6718] OR JAMES MARSHALL [602–534–3747]) SHALL BE NOTIFIED IMMEDIATELY AND ALLOWED TIME TO PROPERLY ASSESS THE MATERIALS.

5. BASED ON THE CURRENT SCOPE OF WORK AND PROVIDED PROJECT INFORMATION, PROJECT ACTIVITIES MAY DISTURB MATERIALS THAT COULD CONTAIN CONCRETE, ASPHALT, PAINTED METAL, WOOD, GLASS AND OTHER SUSPECT ASBESTOS AND LEAD–CONTAINING MATERIALS. THEREFORE, COMPLIANCE WITH APPLICABLE FEDERAL, STATE, AND COUNTY REGULATIONS, AS WELL AS THE CITY OF PHOENIX HAZARDOUS BUILDING MATERIALS POLICY, REGARDING ASBESTOS AND LEAD, ARE REQUIRED. TO ENSURE ASBESTOS AND LEAD COMPLIANCE, PLEASE CONTACT JAMES MARSHALL, OFFICE OF THE CITY ENGINEER–ENVIRONMENTAL SERVICES SECTION (602) 534–3747; james.marshall@phoenix.gov TO REQUEST SERVICES FORM AND COMPLETE AND RETURN THE ENVIRONMENTAL SERVICES SECTION.

AS-BUILT CERTIFICATION

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REGISTERED ENGINEER DATE

REGISTRATION NUMBER

CONTACT ARIZONA 811 AT LEAST TWO FULL WORKING DAYS BEFORE YOU BEGIN EXCAVATION

ARIZONA811

CALL 811 OR CLICK ARIZONA811.COM

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35TH AVENUE AND CAMELBACK ROAD
RELIEF SEWER

CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

CITY OF PHOENIX NOTES

DR: JG | DES: MM | CK: TOB | SHEET NO. 3 | TOTAL SHEETS 26
DATE: 01/24 | DATE: 01/24 | DATE: 01/24
SCALE: HORIZ VERT

CONSOR# U21016AZ

January 12 2024
WS90500303 LV2.DWG

35TH AVENUE AND CAMELBACK ROAD
RELIEF SEWER

PHOENIX STREET – MARICOPA CO.

QUARTER SECTION NO. 18–21, 18–22
19–22

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

REGISTERED PROFESSIONAL ENGINEER (Civil)
75001
MARK
MENDON
Date Signed: 01/12/24
ARIZONA, U.S.A.

F.H.W.A. REGION

STATE

PROJ. NO.

NO.

TOTAL

9

ARIZ.

WS90500303

4

26

2432 W. PEORIA AVENUE, SUITE 1246
PHOENIX, AZ 85029
Ph: (602) 906-1901

SOUTHWEST GAS NOTES

1. GAS PIPING COATING/WRAPPING MAY CONTAIN ASBESTOS. CONFLICTING PIPING MUST BE REMOVED BY ONE OF SOUTHWEST GAS CORPORATION’S NESHAP CERTIFIED CONTRACTORS. THE CERTIFIED CONTRACTORS WILL REMOVE THE PIPE DURING THE WORK HOURS OF 7:00 AM TO 3:30 PM, MONDAY THROUGH FRIDAY. THE COSTS OF THE CERTIFIED NESHAP CONTRACTORS, ABANDONMENT MATERIALS, STORAGE AND TRANSPORTATION SHALL BE AT THE COST OF THE CONTRACTOR. THE CONTRACTOR SHALL EXCAVATE TO WITHIN 1 FOOT OF THE EXISTING GAS PIPING TO BE REMOVED. THE CONTRACTOR SHALL PROVIDE SHORING, PLATING, TRAFFIC CONTROL AND COORDINATION AS REQUIRED FOR SOUTHWEST GAS CORPORATION TO REMOVE THE GAS PIPING. THE CONTRACTOR SHALL CONTACT SOUTHWEST GAS CORPORATION AT LEAST ONE WEEK PRIOR TO CONSTRUCTION AT 602–484–5256 TO COORDINATE THE REMOVAL OF THE ABANDONED PIPE. TO HAVE SMALL SECTIONS OF 10 FOOT OR LESS OF POTENTIALLY CONFLICTING GAS PIPING REMOVED THE CONTRACTOR SHALL CONTACT SOUTHWEST GAS CORPORATION AT 602–271–4277.

2. DURING PROJECT CONSTRUCTION ALL GAS PIPELINE VALVES, LINE LOCATING STATIONS, TEST POINTS, UNDERGROUND VAULTS SHALL BE KEPT ACCESSIBLE AT ALL TIMES.

3. CONTACT SOUTHWEST GAS CONSTRUCTION AT TEMPE OPERATIONS 480–730–3670 FOR COORDINATING WORK AND INSPECTIONS. FOR EMERGENCIES CALL 1–800–528–4277.

4. ONCE MECHANICAL TRENCHING IS IN PROGRESS, DO NOT ATTEMPT TO TRENCH WITHIN TWO FEET OF A GAS PIPE. THE TRENCHING SHALL BE DONE BY HAND IN ORDER TO PREVENT ANY DAMAGE TO THE GAS PIPE. IN THE EVENT THE CONTRACTOR SHOULD "HOOK" OR OTHERWISE STRAIN A GAS PIPE WHILE EXCAVATING, IMMEDIATELY CALL 1–800–528–4277 OR 911.

5. WHEN EXCAVATIONS ARE COMPLETE, ALL EXPOSED GAS PIPES SHALL BE PROTECTED. IF LEFT UNATTENDED, THE EXPOSED PIPE SHALL BE SURROUNDED WITH AT LEAST 6 INCHES BELOW AND 6 INCHES ABOVE WITH PORTLAND CEMENT CONCRETE FINE AGGREGATE SAND. IF THE TRENCH IS MORE THAN 3 FEET WIDE, THE PIPE MUST BE SUPPORTED IN A MANNER WHERE THE SUPPORTING MATERIAL DOES NOT DAMAGE THE PIPE OR THE PROTECTIVE COATING. CONTACT SOUTHWEST GAS ENGINEERING AT 480–730–3855 TO REVIEW AND APPROVE ALL PROPOSED PIPE SUPPORT DESIGNS.

6. WHEN BACKFILLING, SOUTHWEST GAS REQUIRES BOTH SIX INCHES OF BEDDING AND SIX INCHES OF SHADING WITH SAND OR MATERIAL FREE OF ROCKS AND ABLE TO PASS THROUGH A 3/8 INCH SCREEN. DO NOT DROP BACKFILL DIRECTLY OVER THE GAS PIPE. DURING THE COMPACTION PROCESS, USE EXTRA CARE WHEN DIRECTLY OVER THE GAS PIPE IN ORDER TO AVOID AND DAMAGE.

COX AND CENTURY LINK NOTES

1. PROPOSED CONSTRUCTION CROSSES EXISTING FACILITIES. POTHOLE PRIOR TO BEGINNING CONSTRUCTION.

2. AERIAL FACILITIES ARE WITHIN PROJECT VICINITY, USE CAUTION AND PROTECT IN PLACE.

3. MAINTAIN A MINIMUM OF 12" VERTICAL CLEARANCE AT ALL CROSSINGS.

4. EXISTING VAULTS, MANHOLES AND SURFACE FACILITIES SHALL BE PROTECTED IN PLACE DURING CONSTRUCTION.

APS AND SRP NOTES:

1. THE CONTRACTOR SHALL PROTECT IN PLACE ALL EXISTING OVERHEAD AND UNDERGROUND FACILITIES NOT IMPACTED BY THE CONSTRUCTION OF THIS PROJECT.

2. ELECTRICAL FACILITIES THAT ARE NOT IN CONFLICT, BUT MAY REQUIRE ANY POLE BRACING, ADJUSTMENTS OF MANHOLES TO GRADE (REQUIRES PRESENCE OF ELECTRICAL INSPECTOR), TEMPORARY RELOCATIONS OF OVERHEAD AND REQUIRED OUTAGES (DUE TO CONSTRUCTION OF PROJECT) WILL BE AT THE COST OF THE CONTRACTOR.

3. IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN MINIMUM OSHA CLEARANCES FROM ELECTRICAL OVERHEAD AND UNDERGROUND FACILITIES. NO EQUIPMENT, SPOIL PILES ETC. SHALL BE PLACED BENEATH AND/OR OVER ELECTRICAL FACILITIES.

4. HAND DIG WITHIN 2 FEET OF ENERGIZED UNDERGROUND ELECTRICAL FACILITIES.

PROJECT NOTES

1. THE CONTRACTOR SHALL SUPPORT AND PROTECT IN PLACE ALL EXISTING UTILITIES WITHIN THE EXCAVATION AS REQUIRED BY THE MAG SPECIFICATIONS AND CITY SUPPLEMENTS.

2. THE SEPARATION OF WATER AND SEWER MAINS SHALL CONFORM WITH MAG STANDARD SPECIFICATIONS AND DETAILS.

3. COMPACTION SHALL COMPLY WITH MAG SECTION 601 AND CITY OF PHOENIX SUPPLEMENTS AND AS INDICATED IN THE PROJECT PLANS AND DETAILS.

4. PIPE DEFLECTIONS SHALL NOT EXCEED 2/3 PIPE MANUFACTURERS' MAXIMUM DEFLECTION ANGLE.

5. OPEN CUT SLOPES AND SHORING FOR GRAVITY SEWER TRENCH EXCAVATIONS SHALL AS A MINIMUM COMPLY WITH OSHA REQUIREMENTS. WHERE EXCAVATIONS ARE DEEPER THAN 20 FEET, THE CONTRACTOR SHALL HAVE A PROFESSIONAL CIVIL ENGINEER, REGISTERED IN THE STATE OF ARIZONA, DESIGN OPEN CUT SLOPES AND SHORING. THE CONTRACTOR SHALL SUBMIT THE DESIGN TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

6. THE CONTRACTOR SHALL CONSTRUCT PERMANENT OR TEMPORARY PIPE SUPPORTS AS SHOWN ON MAG STANDARD DETAILS 403–1, 403–2 AND 403–3 FOR ALL UTILITY CROSSINGS ON THIS PROJECT. PIPE SUPPORTS SHALL BE A NON PAY ITEM.

7. VEHICULAR AND PEDESTRIAN TRAFFIC ON ADJACENT ROADWAYS MUST BE PROTECTED AND MAINTAINED DURING ALL CONSTRUCTION OPERATIONS. THE REQUIREMENTS FOR SIGNING AND BARRICADES OF THE CITY OF PHOENIX STREET TRANSPORTATION DEPARTMENT MUST BE FOLLOWED.

8. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH HORIZONTAL AND VERTICAL CONTROLS ARE LOCATED APPROXIMATELY TO THE BEST INFORMATION AVAILABLE.

9. EXISTING UTILITIES AND OTHER FACILITIES SHOWN ON PLANS ARE BASED ON INFORMATION OBTAINED FROM FIELD SURVEY, EXISTING MAPS AND AS–BUILTS AND OTHER PLANS WITHIN THE AREA OF THIS PROJECT. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION OF EXISTING UTILITIES WHICH PERTAIN TO AND MAY AFFECT THE CONSTRUCTION. VARIATIONS BETWEEN ACTUAL DIMENSIONS AND THE DIMENSIONS INDICATED WILL NOT BE A BASIS FOR ANY INCREASE OR DECREASE OF THE CONTRACT BID PRICE.

10. WHERE 4–FEET OR MORE OF 12–INCH OR SMALLER ACP WATERLINE IS EXPOSED, THE CONTRACTOR SHALL REMOVE EXPOSED ACP PER MAG STD DETAIL 403–3 AND REPLACE WITH CLASS 350 DIP. REPLACEMENT SECTION TO EXTEND 5–FEET MINIMUM BEYOND TRENCH WALL. REFER TO COP SUPPLEMENT TO MAG SECTION 601.2.8. ALL PIPE WILL BE POLYWRAPPED DUCTILE IRON WITH RESTRAINED JOINTS.

11. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL POTENTIAL UTILITY CONFLICTS ALONG THE ENTIRE LENGTH OF THE PROJECT PRIOR TO BEGINNING ANY WORK AT NO ADDITIONAL COST TO THE CITY. ANY UTILITY CONFLICTS IDENTIFIED SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR MITIGATION OF CONFLICT.

12. CONTRACTOR SHALL RESTORE ALL NON PAVED SURFACES THAT HAVE BEEN DAMAGED DURING THE CONSTRUCTION OF THIS PROJECT TO PRE CONSTRUCTION CONDITION AT NO ADDITIONAL COST TO THE CITY.

13. THE CONTRACTOR TO FIELD VERIFY DIMENSIONS PRIOR TO CONSTRUCTION/ORDERING MATERIALS.

14. ARMOROCK OR APPROVED EQUAL POLYMER MANHOLES MAY BE INSTALLED AS AN ALTERNATE TO THE PRECAST CONCRETE MANHOLES SPECIFIED BY CONSTRUCTION NOTES 1 & 2. POLYMER MANHOLES SHALL CONFORM TO MAG STANDARD DETAILS 419–1, 422–1, 423–1 OR 423–2 AND CITY OF PHOENIX STANDARD DETAIL P1424.

15. EXISTING UTILITY LINES SHOWN ON THSES PLANS DESIGNATED AS ABANDONED HAVE BEEN SHOWN BASED ON INFORMATION PROVIDED AT THE TIME OF PLAN PREPARATION AND SHALL BE ASSUMED TO BE ACTIVE UNTIL ABANDONED STATUS HAS BEEN VERIFIED BY THE CONTRACTOR.

CITY OF PHOENIX STORMWATER NOTES

1. IF THE PROJECT IS GREATER THAN 1 ACER OR LESS THAN OR EQUAL TO 1 ACRE, BUT PART OF A LARGER COMMON PLAN OF DEVELOPMENT, AN AZPDES CONSTRUCTION GENERAL PERMIT (CGP) AND ASSOCIATED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE NEEDED, AND A COPY OF THE GRADING AND DRAINAGE PLAN FOR THIS PROJECT, TOGETHER WITH A COPY OF THE NOTICE OF INTENT (NOI) AND THE SWPPP SHALL BE MAINTAINED ON THE SITE AND AVAILABLE FOR REVIEW.

2. CONTRACTOR IS EXPECTED TO COMPLY WITH PHOENIX CITY CODE 32C.

3. A COPY OF THE GRADING AND DRAINAGE PLAN FOR THIS PROJECT, TOGETHER WITH A COPY OF THE STORM WATER MANAGEMENT PLAN (SWMP) OR SWPPP, SHALL BE MAINTAINED ON THE SITE AND AVAILABLE FOR REVIEW.

4. THE DEPARTMENT ENVIRONMENTAL CONTACT SHALL BE NOTIFIED 48 HOURS BEFORE ANY ON–SITE SOIL DISTURBANCE BEGINS.

5. THE CONTRACTOR SHALL OBTAIN A DUST CONTROL PERMIT FROM MARICOPA COUNTY HEALTH DEPARTMENT AND PERFORM MEASURES AS REQUIRED BY THE PERMIT TO PREVENT EXCESS DUST.

6. THE CONTRACTOR SHALL PERFORM, AT A MINIMUM, A VISUAL INSPECTION OF THE CONSTRUCTION SITE AS REQUIRED UNDER THE CONSTRUCTION GENERAL PERMIT (CGP), WHERE APPLICABLE. THE CONTRACTOR SHALL PREPARE A REPORT DOCUMENTING HIS/HER FINDINGS ON THE CONDITIONS OF THE STORMWATER CONTROLS AND NOTE ANY EROSION PROBLEM AREAS. THE CONTRACTOR’S REPORT IS TO BE MAINTAINED WITH THE SWPP/SWMP. FACILITIES (STORMWATER MANAGEMENT CONTROLS) SHALL BE MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED.

7. THE CONTRACTOR SHALL AMEND THE SWPPP/SWMP AS NECESSARY DURING THE COURSE OF CONSTRUCTION TO RESOLVE ANY PROBLEM AREAS, WHICH BECOME EVIDENT DURING THE CONSTRUCTION AND/OR DURING RAINFALLS.

8. THE PERMITTEE SHALL FILE A NOTICE OF TERMINATION (NOT) AFTER COMPLETION OF CONSTRUCTION AND PLACEMENT OF FINAL LANDSCAPE MATERIALS. THE NOT IS TO BE SUBMITTED TO THE CITY’S DEPARTMENT ENVIRONMENTAL CONTACT.

9. THE CONTRACTOR SHALL SAVE ALL RECORDS, INCLUDING THE NOI, SWMP, NOT, AND INSPECTION REPORTS, ON FILE FOR A MINIMUM OF THREE YEARS FROM THE DATE OF FILING THE NOT.

10. THE IMPLEMENTATION OF THESE PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE OPERATOR/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED AND THE NOT IS SUBMITTED.

11. THE FACILITIES (CONTROLS) SHOWN ON THE PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO INSURE THAT SEDIMENT–LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE SURFACE WATER QUALITY STANDARDS, AND MUST BE INSTALLED AND IN OPERATION PRIOR TO ANY GRADING OR LAND CLEARING. WHENEVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL.

12. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF TEMPORARY CONSTRUCTION CONTROLS/BEST MANAGEMENT PRACTICES (BMPs). REMOVAL OF AND DISPOSAL OF TEMPORARY CONSTRUCTIONS CONTROLS SHALL BE AT NO ADDITIONAL COST TO THE CITY.

AS-BUILT CERTIFICATION

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

REGISTERED ENGINEER

REGISTRATION NUMBER

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

35TH AVENUE AND CAMELBACK ROAD
RELIEF SEWER

CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

PROJECT AND UTILITY NOTES

DR: JG | DES: MM | CK: TOB

DATE: 01/24 | DATE: 01/24 | DATE: 01/24

SCALE: HORIZ VERT

SHEET NO.

TOTAL SHEETS

4

26

CONTACT ARIZONA 811 AT LEAST TWO FULL WORKING DAYS BEFORE YOU BEGIN EXCAVATION

CALL 811 OR CLICK ARIZONA811.COM

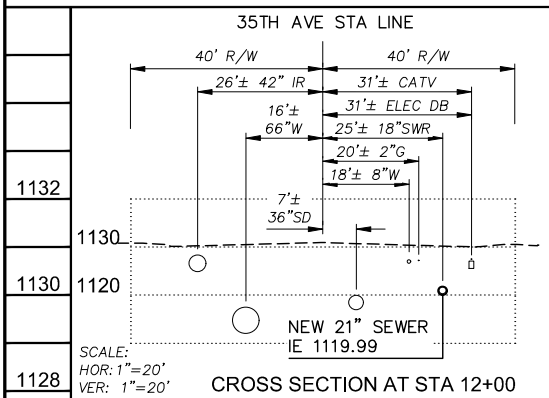
CONSOR# U21016AZ

January 12 2024

WS90500303 LNS.DWG

CONS0R# U21016AZ

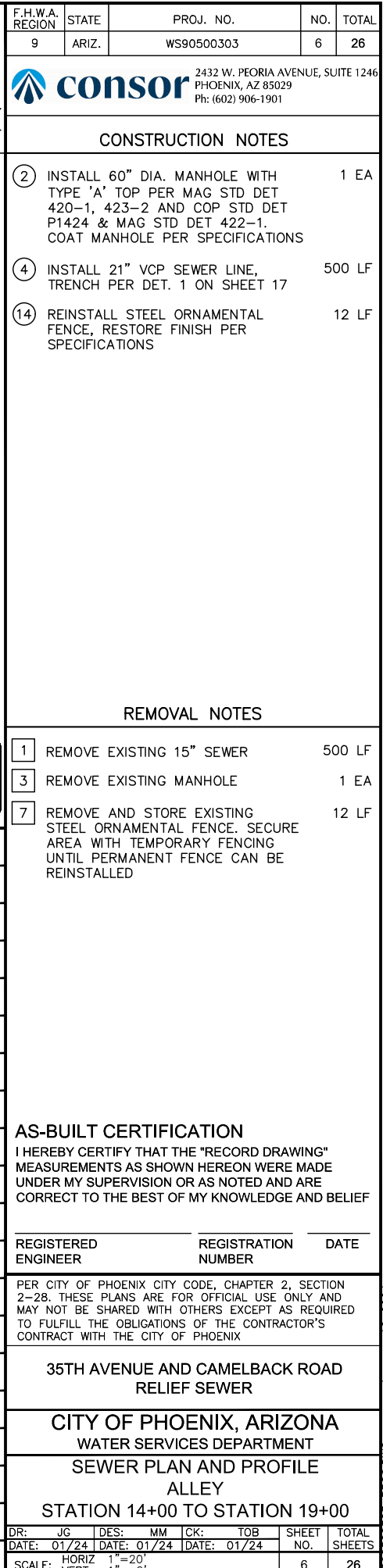
CAMPBELL AVENUE



WS90500303 PP05.DWG January 12 2024

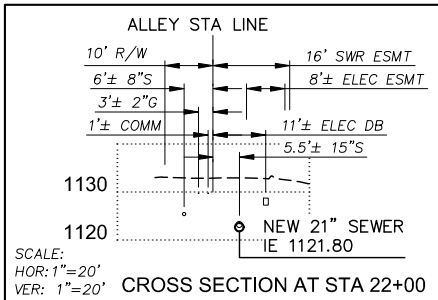
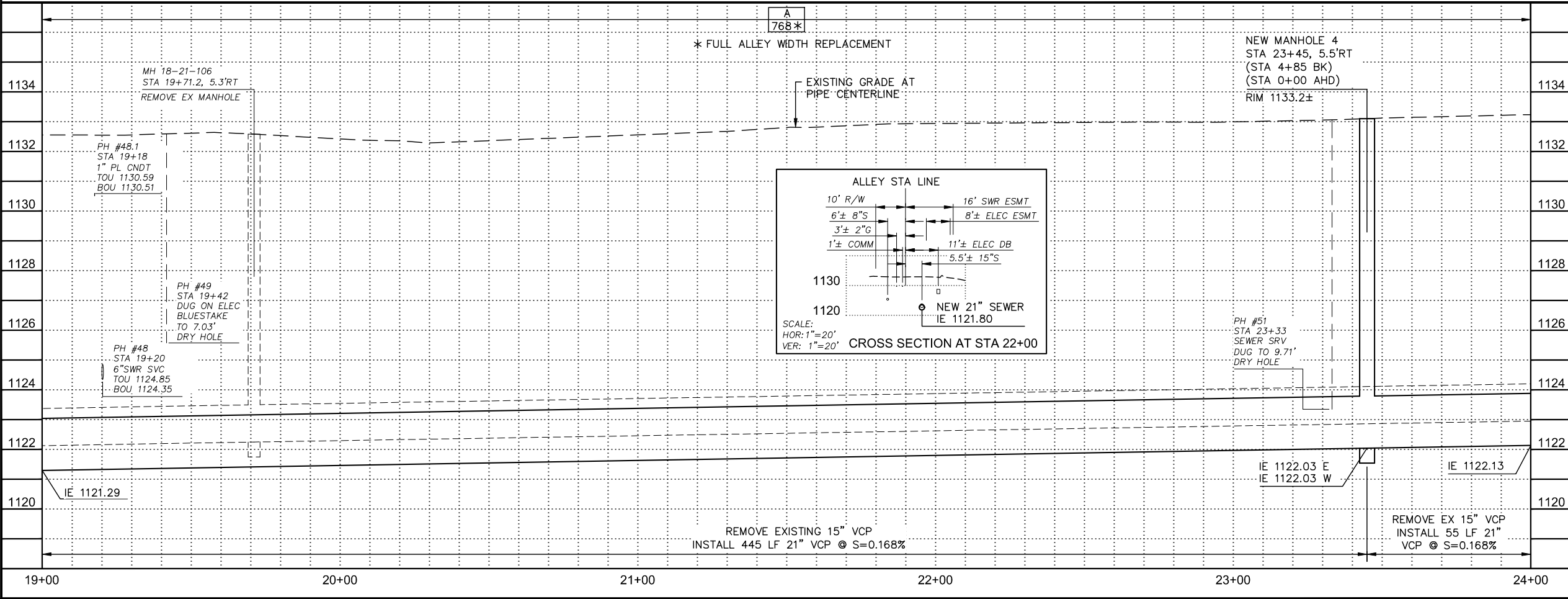
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1134	
	1132
1130	
1128	
1126	
1124	
1122	
1120	
	14



CONSOR# U21016AZ

SEE SHEET 6
MATCH LINE - STATION 19+00

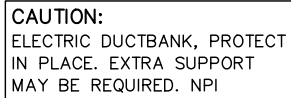


Registered Professional Engineer (Civil)
 CERTIFICATE NO.
 75001
 MARK
 MENDON
 State Signed 01/12/24
 ARIZONA, U.S.A.

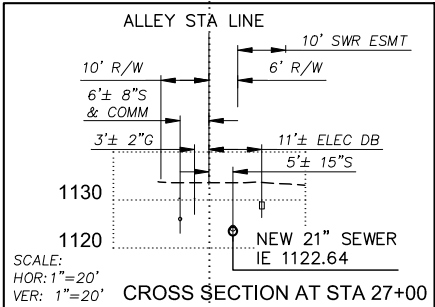
WS90500303 PP07.DWG January 12 2024

CONSOR# U21016A7

QUARTER SECTION NO. 18-21, 18-22
19-22



3417
CITY OF PHOENIX
CIELITO PARK
154-09-001E

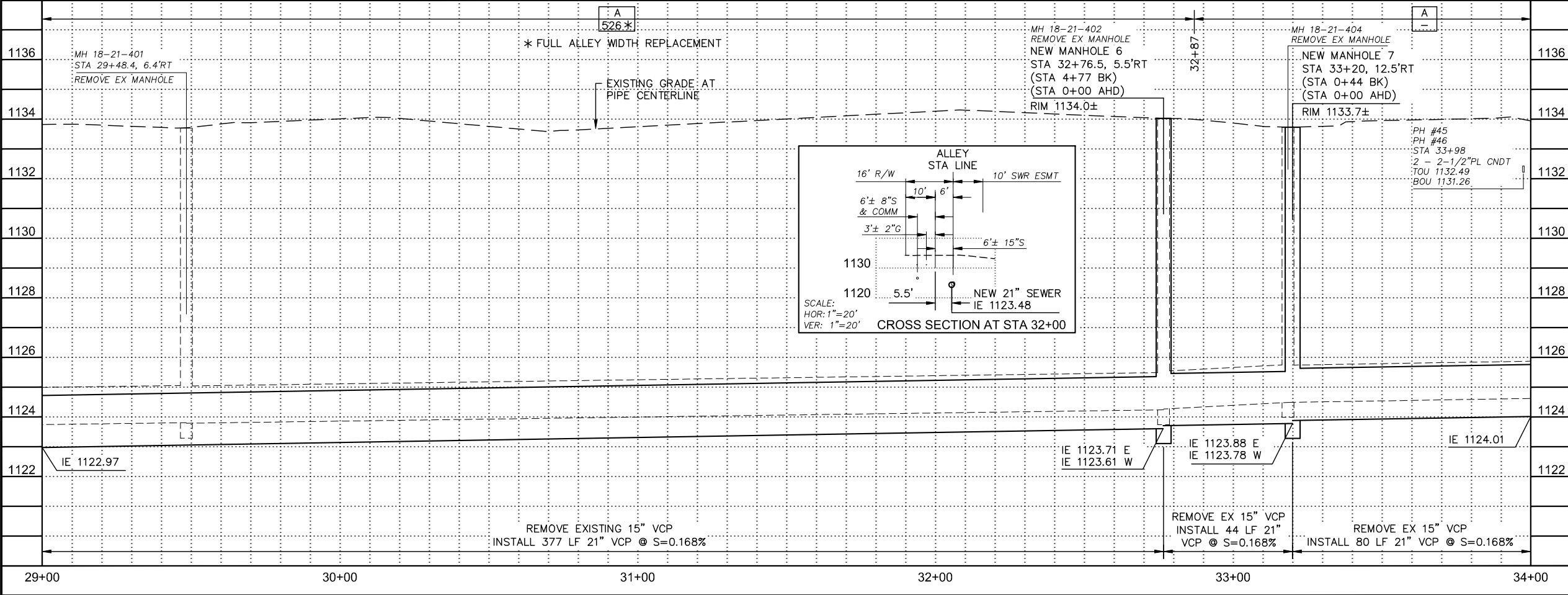


REMOVE EX 15" VCP
INSTALL 100 LF 21" VCP @ S=0.168%

WS90500303 PP08 DWG

CONS0R# U21016AZ

SEE SHEET 8
MATCH LINE - STATION 29+00

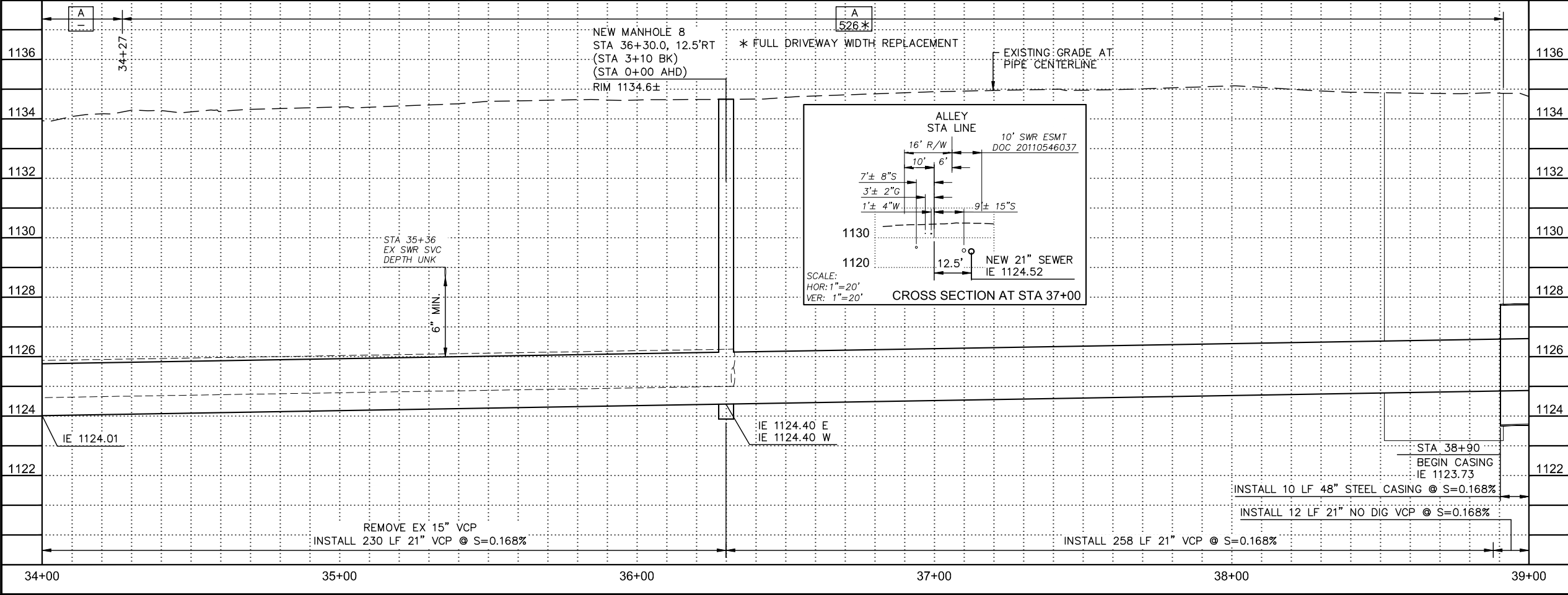


Registered Professional Engineer (Civil)
 CERTIFICATE NO.
 75001
 MARK
 MENDON
 State Signed 01/12/24
 ARIZONA, U.S.A.

WS90500303 PP09.DWG January 12 2024

CONSOR# U21016AZ

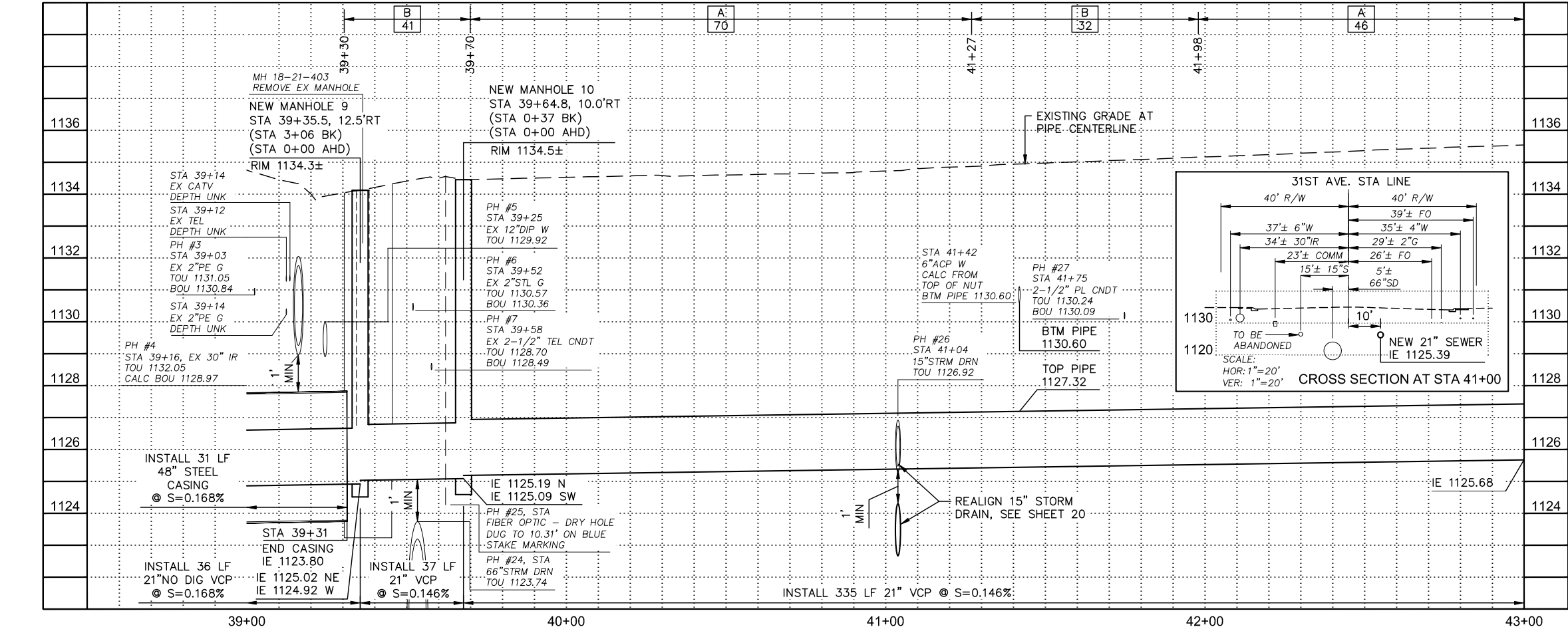
QUARTER SECTION NO. 18-21, 18-22
19-22



WS90500303 PP10.DWG January 12 2024

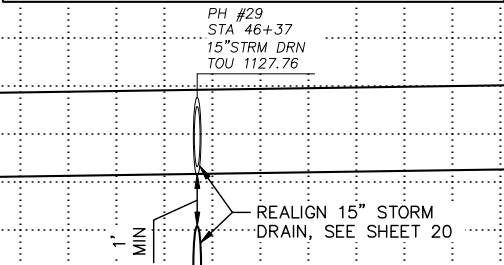
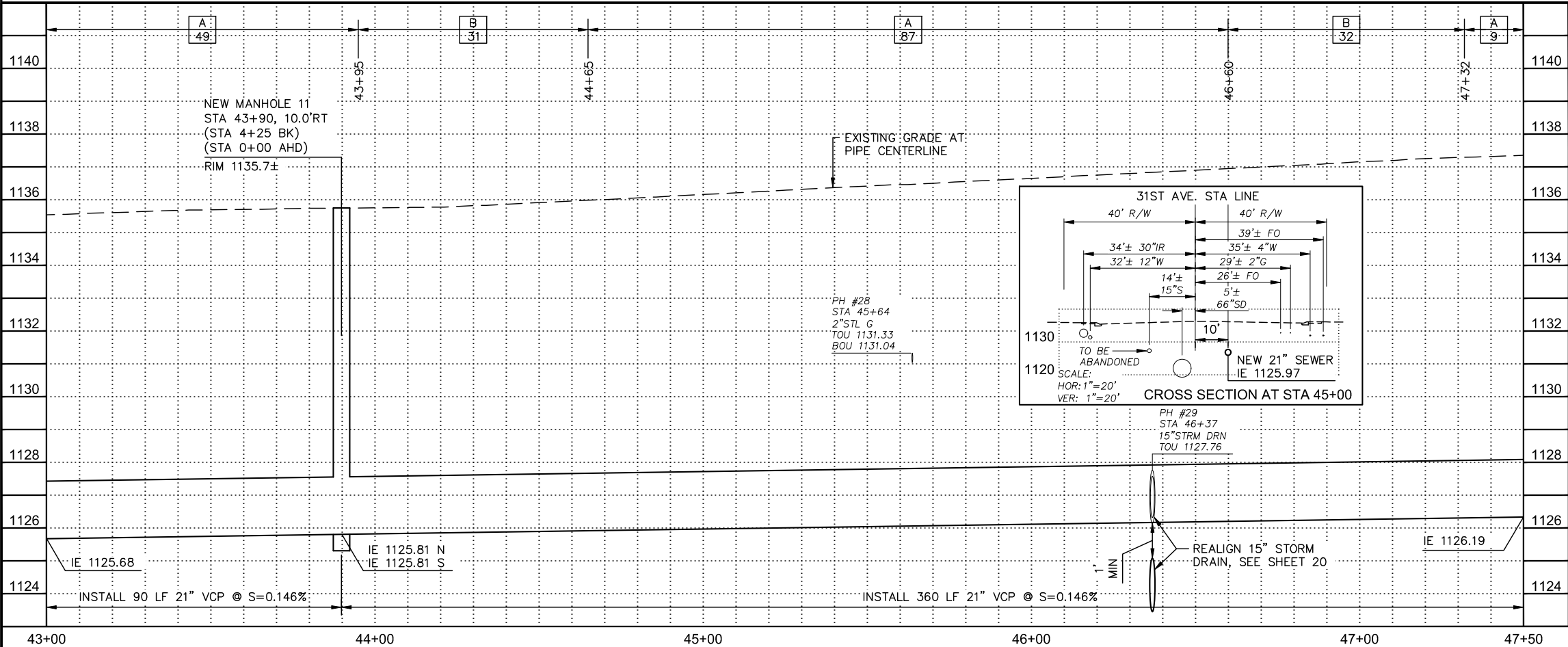
CONSOR# U21016AZ

INDIAN SCHOOL ROAD



CONSOR# U21016AZ

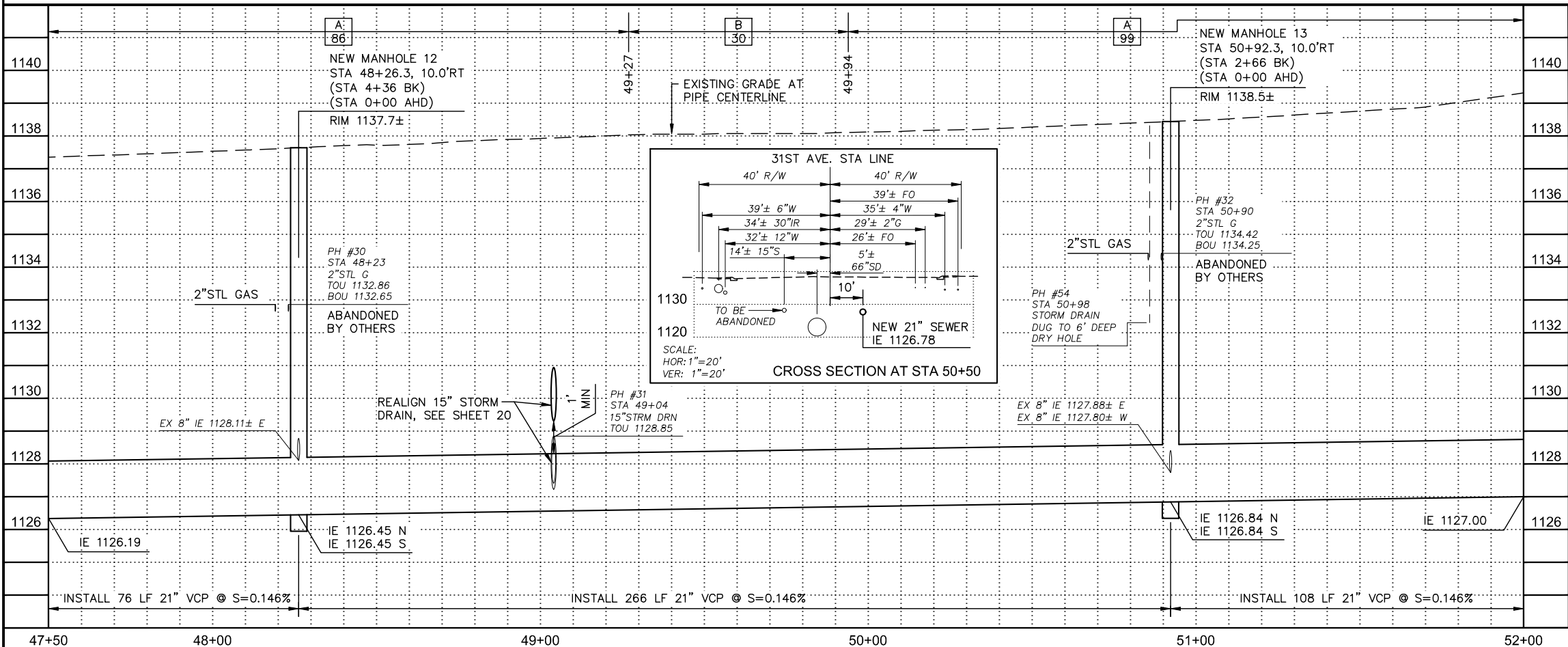
35TH AVENUE AND CAMELBACK ROAD
RELIEF SEWER
PHOENIX STREET - MARICOPA CO.
QUARTER SECTION NO. 18-21, 18-22
19-22



WS90500303 PP12.DWG

CONSOR# U21016A7

GAS LINE TO BE ABANDONED
BY OTHERS. THE CONTRACTOR
SHALL ASSUME THE GAS LINES
IN THIS AREA ARE ACTIVE
UNTIL STATUS HAS BEEN
VERIFIED WITH SOUTHWEST GAS



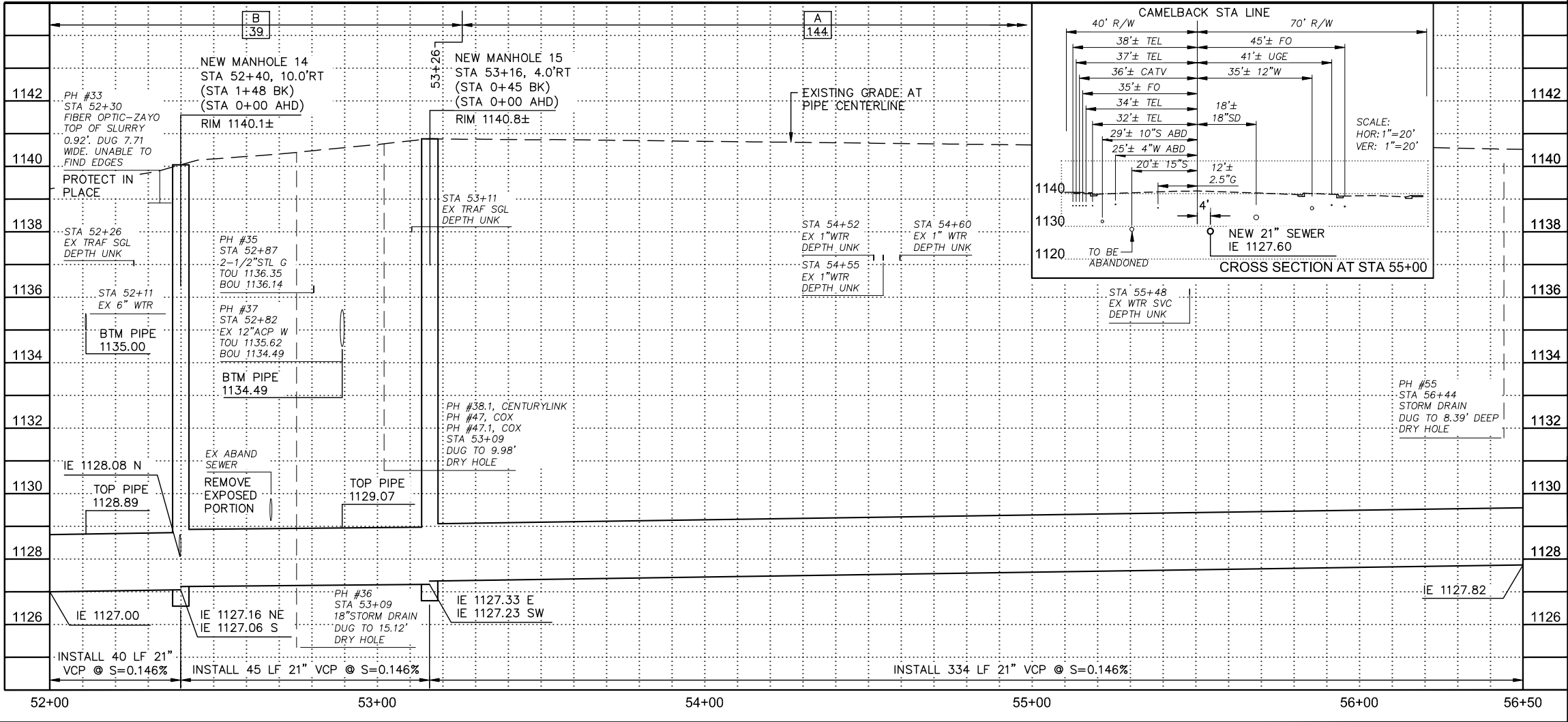
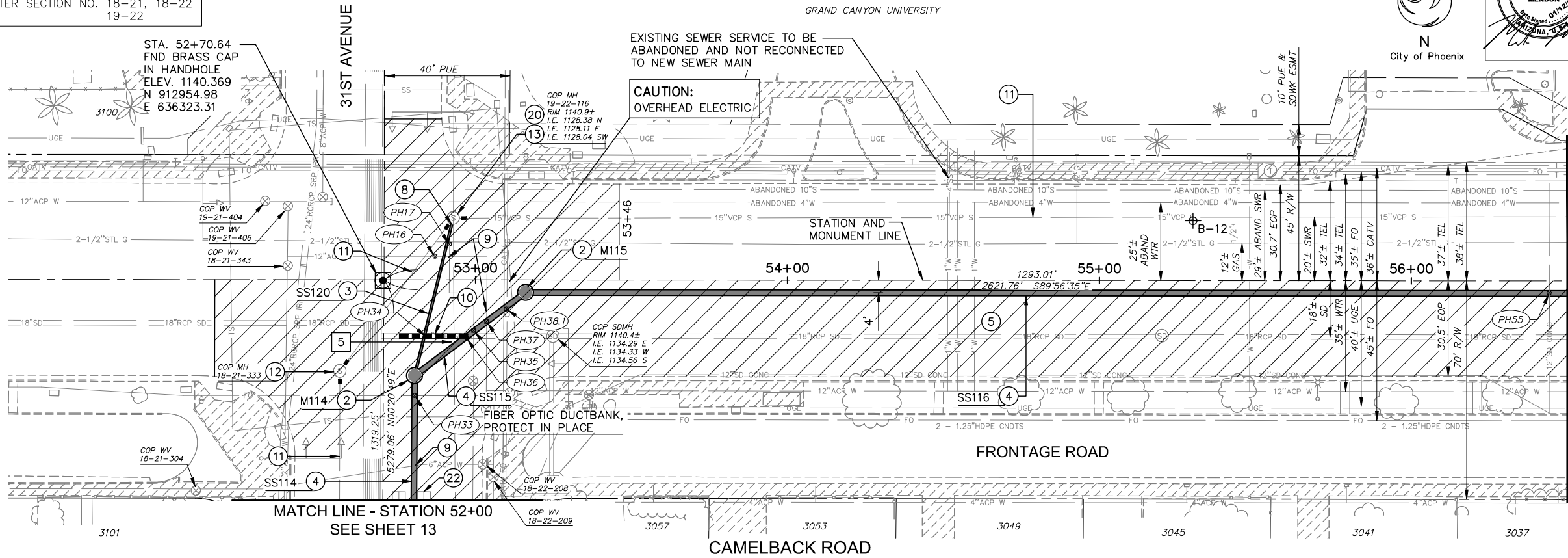
WS90500303 PP13.DWG January 12 2024

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.					

35TH AVENUE AND CAMELBACK ROAD
RELIEF SEWER

PHOENIX STREET - MARICOPA CO.

QUARTER SECTION NO. 18-21, 18-22
19-22



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS90500303	14	26
2432 W. PEORIA AVENUE, SUITE 1246 PHOENIX, AZ 85029 Ph: (602) 906-1901				
CONSTRUCTION NOTES				
②	INSTALL 60" DIA. MANHOLE WITH TYPE 'A' TOP PER MAG STD DET 420-1, 423-2 AND COP STD DET P1424 & MAG STD DET 422-1. COAT MANHOLE PER SPECIFICATIONS			2 EA
③	INSTALL 8" VCP SEWER LINE, TRENCH PER DETAIL 1 ON SHEET 17. SEE PROFILE ON SHEET 22			52 LF
④	INSTALL 21" VCP SEWER LINE, TRENCH PER DET. 1 ON SHEET 17			419 LF
⑤	HALF STREET MICRO SEAL PER MAG SPECIFICATION 331			2042 SY
⑧	CONNECT NEW SEWER LINE TO EXISTING MANHOLE PER DETAIL 4, SHEET 19			1 EA
⑨	REPLACE EXISTING ACP WATER LINE WITH DIP PER COP SUPPLEMENT TO MAG 601.2.8 AND MAG STD DETAIL 403-3 WHERE 4' OR MORE OF ACP WATER LINE IS EXPOSED, CONTINGENT ITEM			3 EA
⑩	REALIGN EXISTING STORM DRAIN CONNECTOR PIPE, SEE CONNECTOR PIPE PROFILE ON SHEET 20			23 LF
⑪	ABANDON EXISTING SEWER, FILL WITH LOW STRENGTH GROUT PER SPECIFICATIONS			460 LF
⑫	ABANDON EXISTING MANHOLE PER MAG STD DTL 450			1 EA
⑬	RECONSTRUCT MANHOLE CHANNEL PER DETAIL 3 ON SHEET 19			1 EA
⑳	PLUG END OF SEWER WITH ONE FOOT OR ONE PIPE DIAMETER OF CONCRETE WHICHEVER IS GREATER			2 EA
㉒	REPLACE TRAFFIC SIGNAL LOOPS PER SPECIFICATIONS			1 LS
REMOVAL NOTES				
9	REMOVE ABANDONED 8" SEWER			8 LF
CONTACT ARIZONA 811 AT LEAST TWO FULL WORKING DAYS BEFORE YOU BEGIN EXCAVATION  CALL 811 OR CLICK ARIZONA811.COM				
AS-BUILT CERTIFICATION				
I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF				
REGISTERED ENGINEER		REGISTRATION NUMBER	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				
35TH AVENUE AND CAMELBACK ROAD RELIEF SEWER				
CITY OF PHOENIX, ARIZONA WATER SERVICES DEPARTMENT				
SEWER PLAN AND PROFILE CAMELBACK ROAD STATION 52+00 TO STATION 56+50				
DR: JG	DES: MM	CK: TOB	SHEET NO.	TOTAL SHEETS
DATE: 01/24	DATE: 01/24	DATE: 01/24	14	26
SCALE: HORIZ 1"=20' VERT 1"= 2'			14	26

CONS0R# U21016AZ

CAMELBACK ROAD

**CONTACT ARIZONA 811 AT LEAST TWO FULL
WORKING DAYS BEFORE YOU BEGIN EXCAVATION**

ARIZONA811

CALL 811 OR CLICK ARIZONA811.COM

WS90500303 PP15.DWG

CONSOR# U21016AZ

SEE SHEET 15

CAMELBACK ROAD



WS90500303 PP16.DWG January 12 2024

REMOVAL NOTES		
1	REMOVE EXISTING 15" SEWER	6 LF
3	REMOVE EXISTING MANHOLE	2 EA
AS-BUILT CERTIFICATION		
I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF		
REGISTERED ENGINEER	REGISTRATION NUMBER	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		
35TH AVENUE AND CAMELBACK ROAD RELIEF SEWER		
CITY OF PHOENIX, ARIZONA WATER SERVICES DEPARTMENT		
SEWER PLAN AND PROFILE CAMELBACK ROAD STATION 61+50 TO STATION 65+63.27		
DR: JG DATE: 01/24	DES: MM DATE: 01/24	CK: TOB DATE: 01/24
SCALE: HORIZ VERT 1"=20' 1"= 2'		SHEET NO. 16
		TOTAL SHEETS 26

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		DESCRIPTION		REV BY		CHK BY		DATE	
		NO.							

35TH AVENUE AND CAMELBACK ROAD
RELIEF SEWER

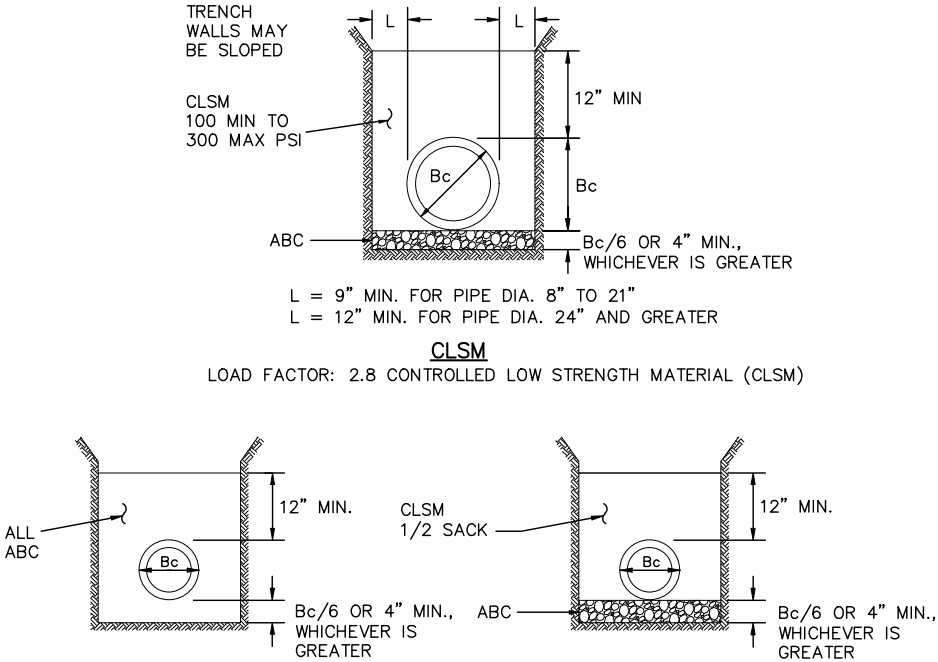
PHOENIX STREET – MARICOPA CO.

QUARTER SECTION NO. 18–21, 18–22
19–22

ALLOWABLE V.C.P. TRENCH LOADING

PIPE SIZE (INCHES)	V.C.P. THREE EDGE BEARING STRENGTH MIN.	ALLOWABLE TRENCH LOAD PER CLASS OF BEDDING SOIL WT.=130#/CU.FT SAFETY FACTOR=1.5	
		CLSM L.F.=2.8	ABC L.F.=2.2
8	2200	4107	3227
10	2400	4480	3520
12	2600	4853	3813
15	2900	5413	4253
18	3300	6160	4840
21	3850	7187	5647
24	4400	8213	6453
27	4700	8773	6893
30	5000	9333	7333
33	5500	10267	8067
36	6000	11200	8800
39	6600	12320	9680
42	7000	13067	10267

V.C.P. BEDDING DETAILS



ABC OR 1/2 SACK CLSM

LOAD FACTOR: 2.2 AGGREGATE BASE COURSE (ABC) ENCASEMENT

NOTES:

- CITY SUPPLEMENT SECTION 601 APPLIES FOR FOUNDATION, BEDDING, BACKFILL, MATERIALS AND COMPACTION
- CLSM PER MAG AND CITY SUPPLEMENT SECTION 728
- Bc = OUTSIDE DIAMETER OF PIPE BARREL

DETAIL NO. P1120-R	 City of Phoenix STANDARD DETAIL	V.C.P. TRENCH LOADING	APPROVED CITY ENGINEER _____ DATE _____	DETAIL NO. P1120-R
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PAVEMENT REQUIREMENTS

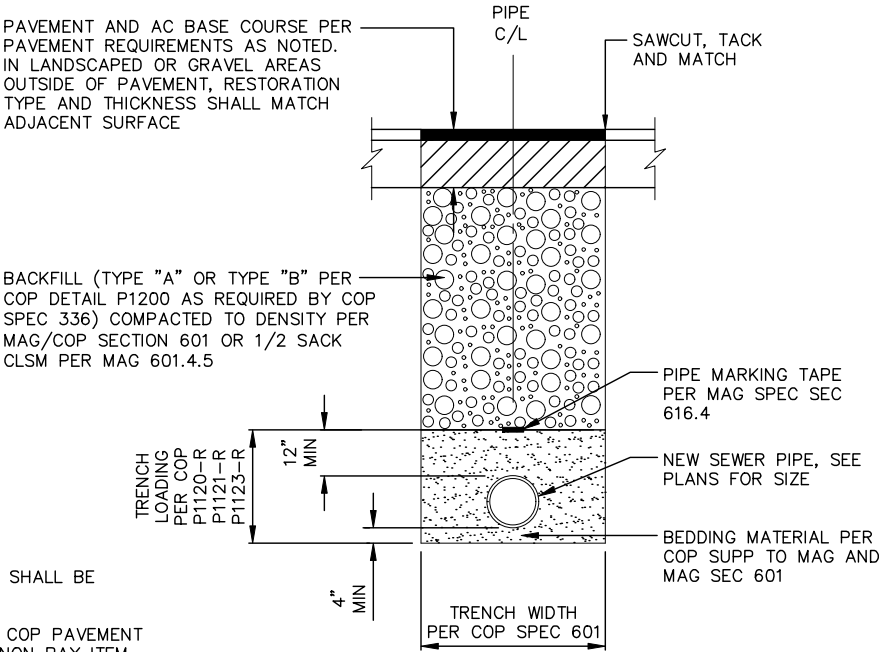
ALLEY PAVEMENT
3" C-3/4 ON 6" ABC

COLLECTOR STREET PAVEMENT, (31ST AVENUE)
2" D-1/2 ON 6" C-3/4 (2 LIFTS) ON 100% COMPACTED
NATIVE SUBGRADE

MAJOR ARTERIAL PAVEMENT, (CAMELBACK RD, 35TH AVENUE)
2" D-1/2 ON 7" C-3/4 (2 LIFTS) ON 100% COMPACTED
SUBGRADE

NOTES:

- PIPE BEDDING AND BACKFILL ARE NON PAY ITEMS AND THE COST SHALL BE INCLUDED IN THE UNIT COST OF THE PIPE INSTALLATION.
- CRACK SEAL IS TO APPLIED TO THE FULL MICRO SEAL AREA PER COP PAVEMENT CUT POLICY AND PROJECT SPECIFICATIONS. CRACK SEALING IS A NON PAY ITEM AND SHALL BE INCLUDED IN THE UNIT COST FOR PAVEMENT REPLACEMENT



TYPICAL TRENCH DETAIL

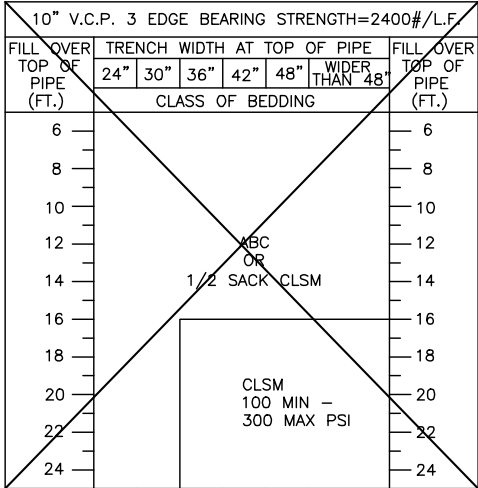
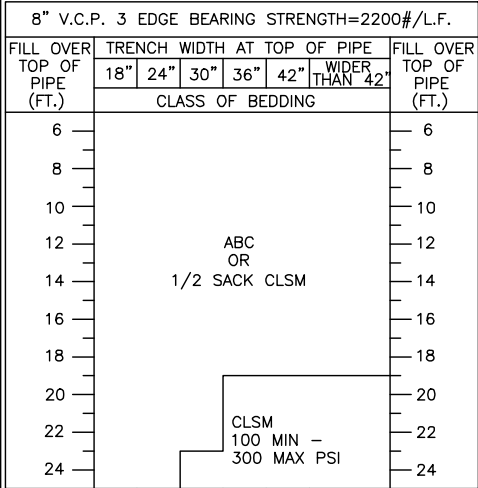
NOT TO SCALE

DETAIL NO. 1



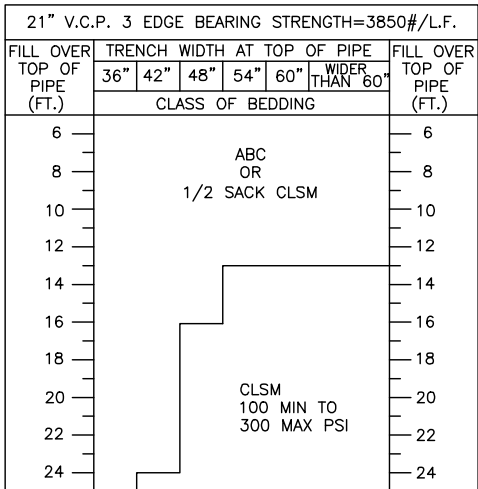
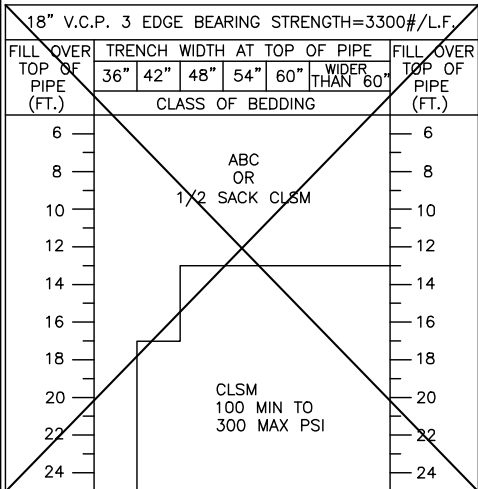
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS90500303	17	26

 **consor**
2432 W. PEORIA AVENUE, SUITE 1246
PHOENIX, AZ 85029
Ph: (602) 906-1901



SEE DETAIL P1120 FOR BEDDING DETAILS
FILL DEPTH GREATER THAN 25 FEET
OVER TOP OF PIPE REQUIRE A
SEALED ENGINEERED DESIGN

DETAIL NO. P1121-R	 City of Phoenix STANDARD DETAIL	8" & 10" V.C.P. TRENCH LOADING	APPROVED CITY ENGINEER _____ DATE _____	DETAIL NO. P1121-R
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SEE DETAIL P1120 FOR BEDDING DETAILS
FILL DEPTH GREATER THAN 25 FEET
OVER TOP OF PIPE REQUIRE A
SEALED ENGINEERED DESIGN

DETAIL NO. P1123-R	 City of Phoenix STANDARD DETAIL	18" & 21" V.C.P. TRENCH LOADING	APPROVED CITY ENGINEER _____ DATE _____	DETAIL NO. P1123-R
-----------------------	---	---------------------------------	--	-----------------------

AS-BUILT CERTIFICATION

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

REGISTERED
ENGINEER

REGISTRATION
NUMBER

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

35TH AVENUE AND CAMELBACK ROAD
RELIEF SEWER

CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

DETAILS

DR:	JG	DES:	MM	CK:	TOB	SHEET	TOTAL
DATE:	01/24	DATE:	01/24	DATE:	01/24	NO.	SHEETS
SCALE:	HORIZ	AS NOTED	AS NOTED	AS NOTED	AS NOTED	17	26

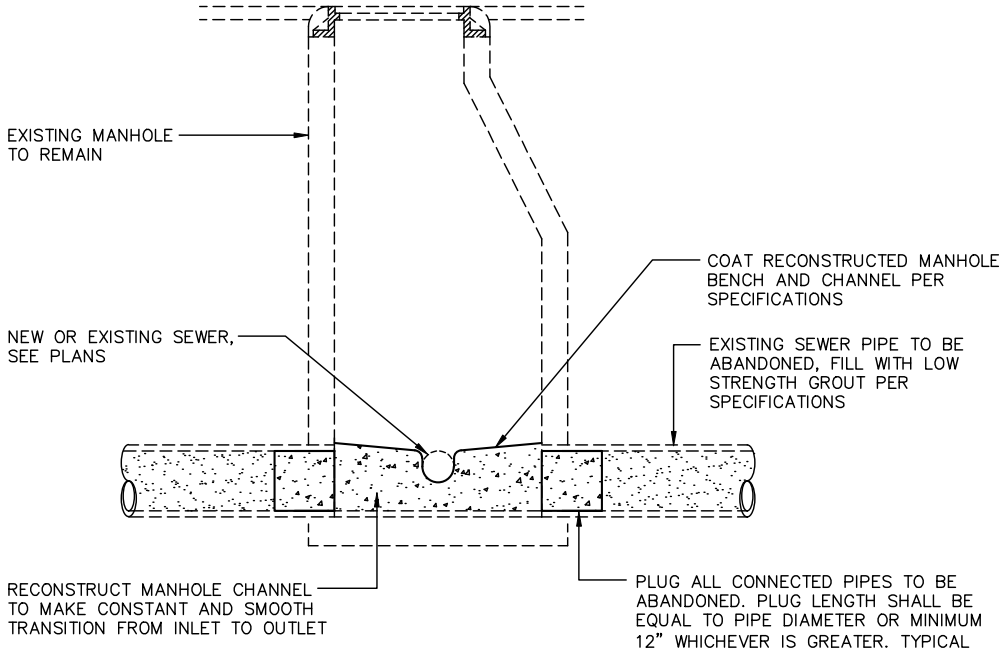
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NO.		DESCRIPTION		NO.		DESCRIPTION		NO.		DESCRIPTION	

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

35TH AVENUE AND CAMELBACK ROAD
RELIEF SEWER

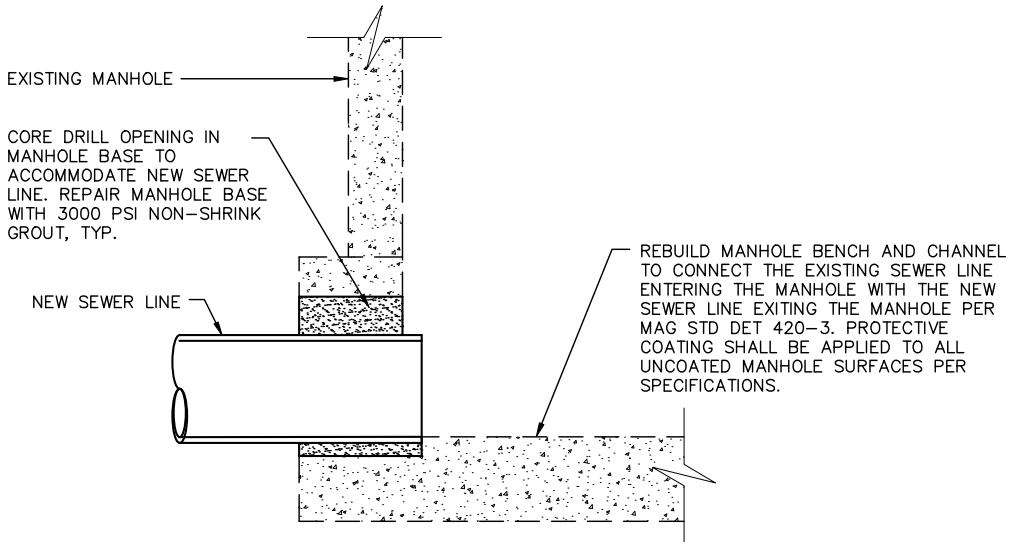
PHOENIX STREET – MARICOPA CO.

QUARTER SECTION NO. 18–21, 18–22
19–22



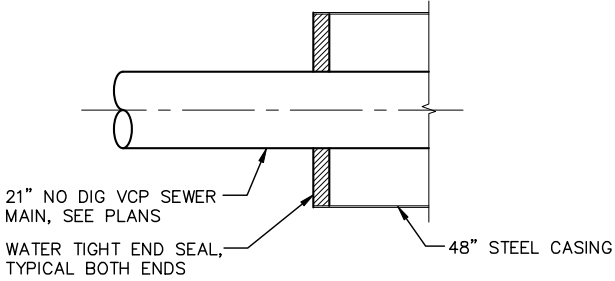
PIPE PLUG AT EXISTING MANHOLE
NOT TO SCALE

DETAIL NO. 3

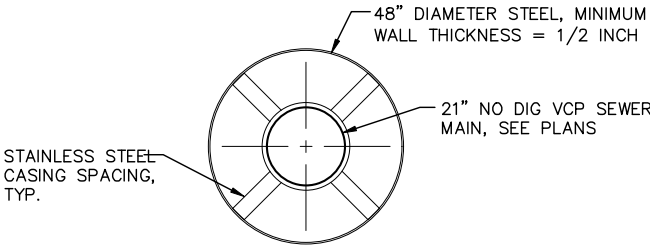


NEW SEWER CONNECTION TO EXISTING MANHOLE
NOT TO SCALE

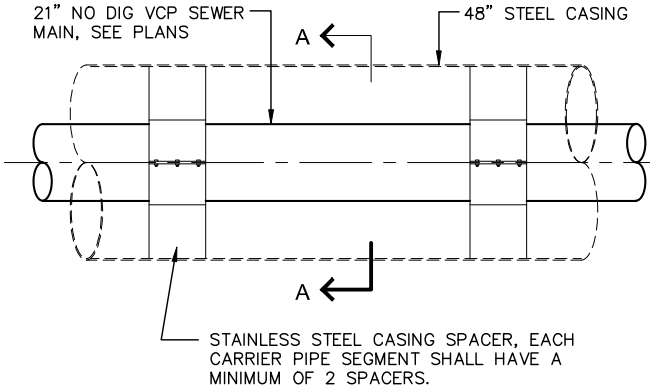
DETAIL NO. 4



CASING PLUG



SECTION A-A



SPACERS

JACK AND BORE STEEL CASING DETAIL
NOT TO SCALE

DETAIL NO. 5



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS90500303	19	26
2432 W. PEORIA AVENUE, SUITE 1246 PHOENIX, AZ 85029 Ph: (602) 906-1901				



AS-BUILT CERTIFICATION
I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

REGISTERED ENGINEER	REGISTRATION NUMBER	DATE
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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

35TH AVENUE AND CAMELBACK ROAD
RELIEF SEWER

CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

DETAILS



DR:	JG	DES:	MM	CK:	TOB	SHEET NO.	TOTAL SHEETS
DATE:	01/24	DATE:	01/24	DATE:	01/24	19	26
SCALE:	HORIZ	NA	VERT	NA			

CONSOR# U21016AZ

STATION AND
MONUMENT LINE
(31ST AVENUE)



CONCRETE COLLARS AND
FITTINGS ARE INCLUDED IN
THE COST OF THE PIPE



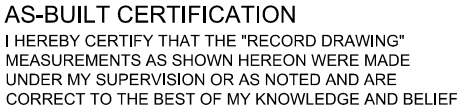
STORM DRAIN CONNECTOR PIPE REALIGNMENT AT STATION 49+04

STORM DRAIN CONNECTOR PIPE REALIGNMENT AT STATION 53+00

DR: JG	DES: MM	CK: TOB	SHEET NO.	TOTAL SHEETS
DATE: 01/24	DATE: 01/24	DATE: 01/24		
SCALE: HORIZ NA VERT NA			20	26

CONSOR# U21016AZ

QUARTER SECTION NO. 18-21, 18-22
19-22



REGISTERED ENGINEER	REGISTRATION NUMBER	DATE
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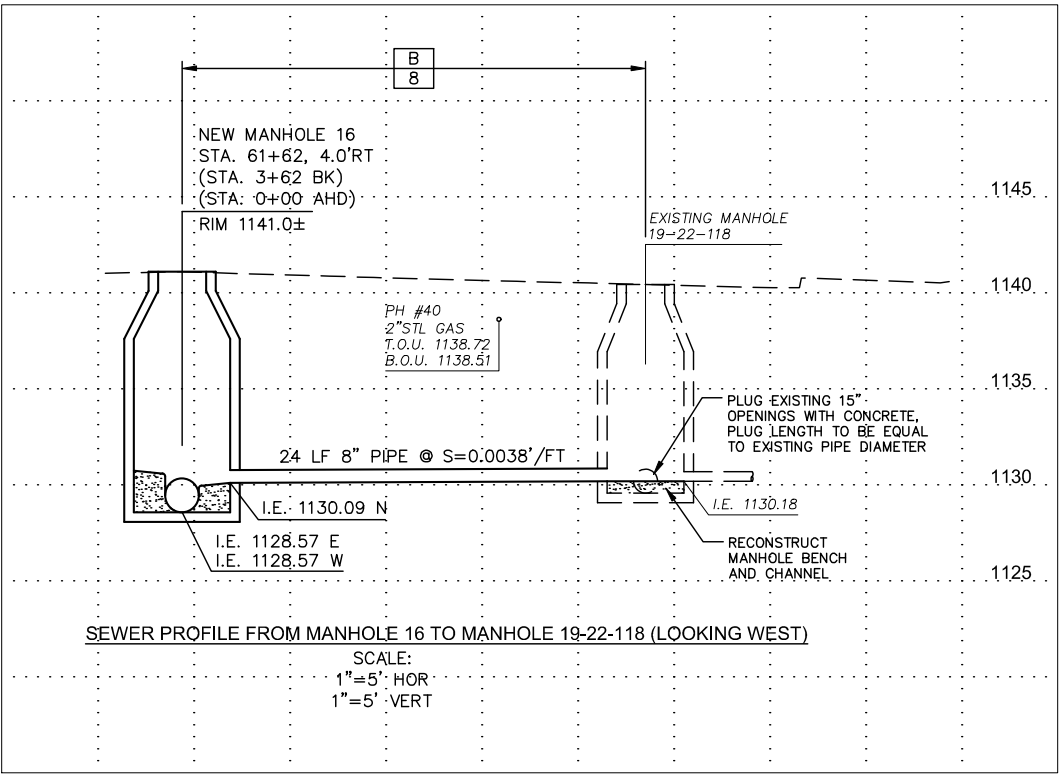
35TH AVENUE AND CAMELBACK ROAD
RELIEF SEWER

CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

CONNECTOR PIPE PROFILES

DR: JG	DES: MM	CK: TOB	SHEET	TOTAL
DATE: 01/24	DATE: 01/24	DATE: 01/24	NO.	SHEETS
SCALE: HORIZ	NA		21	26
VERT	NA			

WS90500303_DT21.DWG January 12 2024

[illegible]

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

35TH AVENUE AND CAMELBACK ROAD
RELIEF SEWER

PHOENIX STREET – MARICOPA CO.

QUARTER SECTION NO. 18–21, 18–22
19–22



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KEY TO SOIL SYMBOLS AND TERMS

PAGE 1 OF 1

Client: Project Engineering Consultants, Ltd.

Project Name: 35th Ave and Camelback Road Relief Sewer

Project Number: 44.22.2242

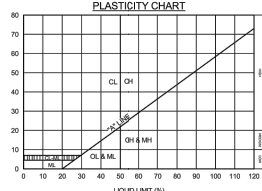
Project Location: Phoenix, AZ

MATERIAL TYPES	CRITERIA FOR ASSIGNING SOIL GROUP NAMES	GROUP SYMBOL	SOIL GROUP NAMES & LEGEND
COARSE-GRAINED SOILS >50% RETAINED ON NO. 200 SIEVE	GRAVELS	CLEAN GRAVELS <5% FINES	$C_u \leq 4$ AND $1 \leq C_u \leq 3$ GW WELL-GRADED GRAVEL
	>50% OF COARSE FRACTION RETAINED ON NO. 4. SIEVE	GRAVELS WITH FINES >12% FINES	$C_u \leq 4$ AND/OR $1 > C_u > 3$ GP POORLY-GRADED GRAVEL
		GRAVELS CLASSIFY AS ML OR CL	GM SILTY GRAVEL
	SANDS	CLEAN SANDS <5% FINES	$C_u \leq 6$ AND/OR $1 > C_u \leq 3$ GC CLAYEY GRAVEL
		SANDS AND FINES >12% FINES	$C_u \leq 6$ AND/OR $1 > C_u \leq 3$ SW WELL-GRADED SAND
	>50% OF COARSE FRACTION PASSES ON NO. 4. SIEVE	FINES CLASSIFY AS ML OR MH	SP POORLY-GRADED SAND
FINE-GRAINED SOILS >50% PASSES ON NO. 200 SIEVE	SILTS AND CLAYS	INORGANIC	PI > 7 AND PLOTS > "A" LINE CL LEAN CLAY
		ORGANIC	PI > 4 AND PLOTS > "A" LINE ML SILT
	LIQUID LIMIT < 50	INORGANIC	LL (oven dried) LL (not dried) < 0.75 OL ORGANIC CLAY OR SILT
		ORGANIC	PI PLOTS > "A" LINE CH FAT CLAY
	SILTS AND CLAYS	INORGANIC	PI PLOTS < "A" LINE MH ELASTIC SILT
		ORGANIC	LL (oven dried) LL (not dried) < 0.75 OH ORGANIC CLAY OR SILT
HIGHLY ORGANIC SOILS		PT	PEAT

PARTICLE SIZE DEFINITION FOR SANDS AND GRAVELS

SOIL FRACTION	GRAIN SIZE
Boulders	12 inches +
Cobbles	12 inches to 3 inches
Gravel	3 inches to 3/4 inch
Coarse	3/4 inch to #4 Sieve
Fine	#4 to #10 Sieve
Sand	#10 to #40 Sieve
Coarse	#40 to #200 Sieve
Medium	
Fine	

PLASTICITY CHART



SAMPLE TYPES

SPT - Standard Penetration Test

RING - Ring-Shield Sampler

BULK - Bulk Sample

UD - Undisturbed Sample

OTHER TESTS OR COMMENTS

(NR) - NO RECOVERY
CH - CONSOLIDATION
DS - DIRECT SHEAR
SW - SWELL
UC - UNCONFINED COMPRESSION
RV - R-VALUE
CBR - CALIFORNIA BEARING RATIO
EI - EXPANSION INDEX
PP - POCKET PENETROMETER (TSF)

pH - pH OF SOIL
RES - MINIMUM ELECTRICAL RESISTIVITY
CHLOR - CHLORIDE CONTENT
SULF - SULFATE CONTENT
THRM - THERMAL RESISTIVITY

CONSISTENCY / RELATIVE DENSITY DEFINITIONS

SAND & GRAVEL		COHESIVE SOILS	
RELATIVE DENSITY	N-VALUE BLOWS/FOOT	CONSISTENCY	N-VALUE BLOWS/FOOT
VERY LOOSE	0-4	VERY SOFT	0-2
LOOSE	4-10	SOFT	2-4
MEDIUM DENSE	10-30	FIRM	4-8
DENSE	30-50	STIFF	8-15
VERY DENSE	OVER 50	VERY STIFF	15-30
		HARD	OVER 30



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KEY TO SYMBOLS

Client: Project Engineering Consultants, Ltd.

Project Name: 35th Ave and Camelback Road Relief Sewer

Project Number: 44.22.2242

Project Location: Phoenix, AZ

LITHOLOGIC SYMBOLS
(Unified Soil Classification System)

ABC: Aggregate Base Course

ASPHALT: Asphalt

CL: USCS Low Plasticity Clay

CLSM: Controlled Low Strength Material

FILL: Fill (made ground)

SC: USCS Clayey Sand

SAMPLER SYMBOLS

Bulk Sample

WELL CONSTRUCTION SYMBOLS

ABBREVIATIONS

LL - LIQUID LIMIT (%)
PI - PLASTIC INDEX (%)
W - MOISTURE CONTENT (%)
DD - DRY DENSITY (PCF)
NP - NON PLASTIC
-200 - PERCENT PASSING NO. 200 SIEVE
PP - POCKET PENETROMETER (TSF)

TV - TORVANE
PID - PHOTOIONIZATION DETECTOR
UC - UNCONFINED COMPRESSION
ppm - PARTS PER MILLION
Water Level at Time Drilling, or as Shown
Water Level at End of Drilling, or as Shown
Water Level After 24 Hours, or as Shown



F.H.W.A. REGION 9

STATE ARIZ.

PROJ. NO. WS90500303

NO. 23

TOTAL 26



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AS-BUILT CERTIFICATION

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REGISTERED ENGINEER

REGISTRATION NUMBER

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35TH AVENUE AND CAMELBACK ROAD
RELIEF SEWER

CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

GEOTECHNICAL PLAN

DR: JG | DES: MM | CK: TOB | SHEET NO. 23 | TOTAL SHEETS 26

DATE: 01/24 | DATE: 01/24 | DATE: 01/24

SCALE: HORIZ VERT

CONTACT ARIZONA 811 AT LEAST TWO FULL WORKING DAYS BEFORE YOU BEGIN EXCAVATION



CALL 811 OR CLICK ARIZONA811.COM



CONS08# U21016AZ

WS90500303 GTECH01 23.DWG January 12 2024

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		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.							

35TH AVENUE AND CAMELBACK ROAD
RELIEF SEWER

PHOENIX STREET – MARICOPA CO.

QUARTER SECTION NO. 18–21, 18–22
19–22



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BORING NUMBER B-1

PAGE 1 OF 1

Client: Project Engineering Consultants, Ltd.

Project Name: 35th Ave and Camelback Road Relief Sewer

Project Number: 44.22.2242

Project Location: Phoenix, AZ

Date Started: 5/3/22

Completed: 5/3/22

Ground Elevation: 1107 ft

Hole Size: 12 inches

Drilling Contractor: Badger

Ground Water Levels:

Drilling Method: Hydro-vacuum

At time of Drilling: Not Encountered

Logged By: EDM

Checked By: JAT

At end of Drilling: Not Encountered

Notes:

After Drilling: Not Encountered



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BORING NUMBER B-4

PAGE 1 OF 1

Client: Project Engineering Consultants, Ltd.

Project Name: 35th Ave and Camelback Road Relief Sewer

Project Number: 44.22.2242

Project Location: Phoenix, AZ

Date Started: 5/16/22

Completed: 5/16/22

Ground Elevation: 1107 ft

Hole Size: 12 inches

Drilling Contractor: Badger

Ground Water Levels:

Drilling Method: Hydro-vacuum

At time of Drilling: Not Encountered

Logged By: EDM

Checked By: JAT

At end of Drilling: Not Encountered

Notes:

After Drilling: Not Encountered



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BORING NUMBER B-7

PAGE 1 OF 1

Client: Project Engineering Consultants, Ltd.

Project Name: 35th Ave and Camelback Road Relief Sewer

Project Number: 44.22.2242

Project Location: Phoenix, AZ

Date Started: 5/16/22

Completed: 5/16/22

Ground Elevation: 1107 ft

Hole Size: 12 inches

Drilling Contractor: Badger

Ground Water Levels:

Drilling Method: Hydro-vacuum

At time of Drilling: Not Encountered

Logged By: EDM

Checked By: JAT

At end of Drilling: Not Encountered

Notes:

After Drilling: Not Encountered



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BORING NUMBER B-2

PAGE 1 OF 1

Client: Project Engineering Consultants, Ltd.

Project Name: 35th Ave and Camelback Road Relief Sewer

Project Number: 44.22.2242

Project Location: Phoenix, AZ

Date Started: 5/16/22

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Ground Water Levels:

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Notes:

After Drilling: Not Encountered



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BORING NUMBER B-5

PAGE 1 OF 1

Client: Project Engineering Consultants, Ltd.

Project Name: 35th Ave and Camelback Road Relief Sewer

Project Number: 44.22.2242

Project Location: Phoenix, AZ

Date Started: 5/16/22

Completed: 5/16/22

Ground Elevation: 1107 ft

Hole Size: 12 inches

Drilling Contractor: Badger

Ground Water Levels:

Drilling Method: Hydro-vacuum

At time of Drilling: Not Encountered

Logged By: EDM

Checked By: JAT

At end of Drilling: Not Encountered

Notes:

After Drilling: Not Encountered



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BORING NUMBER B-8

PAGE 1 OF 1

Client: Project Engineering Consultants, Ltd.

Project Name: 35th Ave and Camelback Road Relief Sewer

Project Number: 44.22.2242

Project Location: Phoenix, AZ

Date Started: 5/3/22

Completed: 5/3/22

Ground Elevation: 1107 ft

Hole Size: 12 inches

Drilling Contractor: Badger

Ground Water Levels:

Drilling Method: Hydro-vacuum

At time of Drilling: Not Encountered

Logged By: EDM

Checked By: JAT

At end of Drilling: Not Encountered

Notes:

After Drilling: Not Encountered



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BORING NUMBER B-3

PAGE 1 OF 1

Client: Project Engineering Consultants, Ltd.

Project Name: 35th Ave and Camelback Road Relief Sewer

Project Number: 44.22.2242

Project Location: Phoenix, AZ

Date Started: 5/16/22

Completed: 5/16/22

Ground Elevation: 1107 ft

Hole Size: 12 inches

Drilling Contractor: Badger

Ground Water Levels:

Drilling Method: Hydro-vacuum

At time of Drilling: Not Encountered

Logged By: EDM

Checked By: JAT

At end of Drilling: Not Encountered

Notes:

After Drilling: Not Encountered



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BORING NUMBER B-6

PAGE 1 OF 1

Client: Project Engineering Consultants, Ltd.

Project Name: 35th Ave and Camelback Road Relief Sewer

Project Number: 44.22.2242

Project Location: Phoenix, AZ

Date Started: 5/16/22

Completed: 5/16/22

Ground Elevation: 1107 ft

Hole Size: 12 inches

Drilling Contractor: Badger

Ground Water Levels:

Drilling Method: Hydro-vacuum

At time of Drilling: Not Encountered

Logged By: EDM

Checked By: JAT

At end of Drilling: Not Encountered

Notes:

After Drilling: Not Encountered



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BORING NUMBER B-9

PAGE 1 OF 1

Client: Project Engineering Consultants, Ltd.

Project Name: 35th Ave and Camelback Road Relief Sewer

Project Number: 44.22.2242

Project Location: Phoenix, AZ

Date Started: 5/3/22

Completed: 5/3/22

Ground Elevation: 1107 ft

Hole Size: 12 inches

Drilling Contractor: Badger

Ground Water Levels:

Drilling Method: Hydro-vacuum

At time of Drilling: Not Encountered

Logged By: EDM

Checked By: JAT

At end of Drilling: Not Encountered

Notes:

After Drilling: Not Encountered



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.	WS90500303	24	26



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35TH AVENUE AND CAMELBACK ROAD
RELIEF SEWER

CITY OF PHOENIX, ARIZONA
WATER SERVICES DEPARTMENT

GEOTECHNICAL BORING LOGS

DR: JG	DES: MM	CK: TOB	SHEET NO.	TOTAL SHEETS
DATE: 01/24	DATE: 01/24	DATE: 01/24	24	26
SCALE: HORIZ VERT				

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

REVISION BY CITY OF PHOENIX				REVISION BY CITY OF PHOENIX				REVISION BY CITY OF PHOENIX			
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