# **VICINITY MAP**

## MATERIALS LIST

DESCRIPTION	SIZE	MATERIAL	QUANTITIY
MANHOLE REHABBED	60 IN	BRICK	10 EA
MANHOLE REHABBED	60 IN	UNKNOWN	5 EA
MANHOLE REHABBED	60 IN	CONCRETE	1 EA
MANHOLE REHABBED	48 IN	BRICK	2 EA
MANHOLE REHABBED	48 IN	UNKNOWN	9 EA
SEWER PIPE REHABBED	30 IN	PVC LINED RCP	666 LF
SEWER PIPE REHABBED	33 IN	PVC LINED RCP	1,973 LF
SEWER PIPE REHABBED	36 IN	PVC LINED RCP	438 LF

02/15/2024 DATE

CITY OF PHOENIX WATER SERVICES DEPARTMENT

02/14/2024 DATE

# CITY OF PHOENIX WATER SERVICES DEPARTMENT 2017 PVC LINED CONCRETE SANITARY SEWER REHABILITATION PROJECT NO. WS90500272 SEGMENTS 60, 61, 62, 63, 64 (IV-12)



2024 VOLUME 3 OF 3

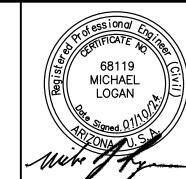
## INDEX OF SHEETS

- LEGEND & ABBREVIATIONS
- GENERAL NOTES
- PLANS KEY MAP
- BYPASS KEY MAP
- PLANS
- MANHOLE REHABILITATION SUMMARY
- SEWER DETAILS
- CONCEPTUAL BYPASS PLANS

## INSPECTION BLOCK

CITY PROJECT MANAGER
CITY INSPECTOR
CONTRACTOR
DATE OF SUBSTANTIAL COMPLETION
DATE OF FINAL COMPLETION
1 YEAR WARRANTY END DATE
5 YEAR WARRANTY END DATE

UTILITY COORDINATION								
UTILITY COMPANY	COMPANY REPRESENTATIVE	TELEPHONE NUMBER						
AT&T	DANA COLLIN	(602) 909 2459						
CENTURYLINK	ELIZABETH HAMILTON	(303) 992 4560						
CROWN CASTLE	UTILITY ADMIN	(877) 486 9377						
SRP	SAVANNAH BINION	(602) 236 4008						
SWG	UTILITY ADMIN	(623) 780 3350						
WANRACK	UTILITY ADMIN	(855) 482 7225						
ZAYO	UTILITY ADMIN	(800) 961 6500						



F.H.W.A. STATE NO. TOTAL WS90500272 3020 East Camelback Road, Suite 201, Phoenix, AZ 85016

P 602.957.1155 F 602.957.2838

**MAYOR** KATE GALLEGO

## CITY COUNCIL

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

## **CITY MANAGER**

JEFF BARTON

## CITY ENGINEER

ERIC J. FROBERG, P.E.

## WATER SERVICES DIRECTOR

TROY HAYES, P.E.

### RECORD DRAWING CERTIFICATION

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

REGISTERED PROFESSIONAL ENGINEER (CIVIL) DATE

REGISTRATION NO.



3020 East Camelback Road, Suite 201, Phoenix, AZ 85016 P 602.957.1155 F 602.957.2838



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THIS DOCUMENT MUST BE KEPT SECURE AT ALL TIMES.

						STANDARD ABB	REVIATI
	AASHTO ABAND ABC	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS ABANDONED AGGREGATE BASE COURSE	L LF LS LT	LENGTH OF CURVE LINEAR FEET LUMP SUM LEFT	UNK UPRR USMH	UNKNOWN UNION PACIFIC RAILROAD UPSTREAM MANHOLE	— — CATV — —
DATE	AC AC ACFC ACI	ACRES ASPHALT CONCRETE ASPHALT CONCRETE FRICTION COURSE AMERICAN CONCRETE INSTITUTE	MAG MAX MB	MARICOPA ASSOCIATION OF GOVERNMENTS MAXIMUM MAILBOX	V VC VCP VG	VERTICAL VERTICAL CURVE VITRIFIED CLAY PIPE VALLEY GUTTER	— — сомм — — (
CKD BY	ACP ACSC ADA ADOT	ASBESTOS CEMENT PIPE ASPHALT CONCRETE SURFACE COURSE AMERICANS WITH DISABILITIES ACT ARIZONA DEPARTMENT OF TRANSPORTATION	MCDOT MCESD ME MH	MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT MATCH EXISTING MANHOLE	W W	VEHICULAR NON ACCESS EASEMENT WEST WATER	— — OHE — —   — — FO — —
OF PHOENIX REV BY CKD	AHD AISC APS ASLD ASTM	AHEAD AMERICAN INSTITUTE OF STEEL CONSTRUCTION ARIZONA PUBLIC SERVICE ARIZONA STATE LAND DEPARTMENT AMERICAN SOCIETY FOR TESTING MATERIALS	MI MIN MJ <u>M</u> MOD	MILES MINIMUM MECHANICAL JOINT MONUMENT LINE MODIFIED	W/ W/O W/O WM WSE	WITH WITHOUT WEST OF WATER METER WATER SURFACE ELEVATION	— FL — — ( — — 2" G — — ( — — 12" IRR— — (
CI_	AVE B/C BC BCF	AVENUE  BACK OF CURB  BRASS CAP	N N/O NC NE	NORTH, NORTHING NORTH OF NORMAL CROWN NORTHEAST	WV XFMR	WATER VALVE TRANSFORMER	24" IRR
REVISION BY DESCRIPTION	BCF BCHH BCR BK BKFL	BRASS CAP FLUSH BRASS CAP IN HANDHOLE BEGIN CURB RETURN BACK BACKFILL	NO NPDES NPI NSF	NUMBER NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM NON-PAY ITEM NATIONAL SANITATION FOUNDATION		EXISTING BENCHMARK	T
RE	BLDG BLVD BM BOT	BUILDING BOULEVARD BENCHMARK BOTTOM	NTS NW OC	NOT TO SCALE NORTHWEST  ON CENTER		BRASS CAP FLUSH BRASS CAP IN HANDHOLE	24** S
NO.	C C C&G	CONCRETE ELEVATION CONDUIT CURB AND GUTTER	OD OHE OHT OPNG	OUTSIDE DIAMETER OVERHEAD ELECTRIC OVERHEAD TELEPHONE OPENING	· II	BACKFLOW PREVENTER CACTUS	24" SD
	CAP CATV CB CIP CIP	CORRUGATED ALUMINUM PIPE CABLE TELEVISION CATCH BASIN CAST IRON PIPE CAST IN PLACE	P P PB PC	PAVEMENT ELEVATION PHONE NUMBER PULLBOX POINT OF CURVATURE		DRYWELL  FIRE HYDRANT  FIRE DEPT CONNECTION	
	CIPP CK & CLR	CURED IN PLACE PIPE CHECKED CENTERLINE CLEAR	PCC PCCP PE PED	POINT OF COMPOUND CURVATURE PORTLAND CEMENT CONCRETE PAVEMENT POLYETHYLENE PIPE TELEPHONE PEDESTAL	F	FLAG POLE GATE	
Y DATE	CMP CO COA COG	CORRUGATED METAL PIPE CLEAN OUT CITY OF AVONDALE CITY OF GLENDALE	PET PGL PH# PI PIP	PETROLEUM PROFILE GRADE LINE POTHOLE NUMBER POINT OF INTERSECTION PROTECT IN PLACE	<u> </u>	GRATE GUY WIRE HEADWALL	
PHOENIX REV BY CKD BY	COMM CONC CONST COP COR	COMMUNICATION CONCRETE CONSTRUCTION CITY OF PHOENIX CORNER	PLSS POC POT	PROPERTY LINE PUBLIC LAND SURVEY SYSTEM POINT ON CURVE POINT ON TANGENT	MB COM)	MAILBOX MANHOLE (TYPE NOTED)	
JO	CORR CSP CTB	CORRECTION CORRUGATED STEEL PIPE CEMENT TREATED BASE	PP PRC PROP PSI	POWER POLE POINT OF REVERSE CURVATURE PROPOSED POUNDS PER SQUARE INCH	EM TV	METER (TYPE NOTED) PEDESTAL (TYPE NOTED)	
WG BY CITY	D/W DB DES DET DG	DRIVEWAY DUCT BANK DESIGN DETAIL DECOMPOSED GRANITE	PT PT PUE PVC PVI	POINT OF TANGENCY POINT PUBLIC UTILITY EASEMENT POLY VINYL CHLORIDE POINT OF VERTICAL INTERSECTION	[EB]	PULLBOX (TYPE NOTED)  RIPRAP  ROCK	
N-IV_12.dwg REVISION BY DESCRIPTION	DIP DR DRN DRNG	DUCTILE IRON PIPE DRIVE DRAWN DRAINAGE	PVMT PVRC PVT	PAVEMENT POINT OF VERTICAL REVERSE CURVATURE POINT OF VERTICAL TANGENCY		SHRUB SIGN	
272	DSMH DWG E	DOWNSTREAM MANHOLE DRAWING  EAST, EASTING	R R R/W RCBC RCP	RADIUS RANGE RIGHT—OF—WAY REINFORCED CONCRETE BOX CULVERT REINFORCED CONCRETE PIPE		STREET LIGHT TREE UTILITY POLE	
.WS905002	E/O E/P EA EB ECR	EAST OF EDGE OF PAVEMENT EACH ELECTRIC PULLBOX END CURB RETURN	RD RDWY REHAB RELOC	ROAD ROADWAY REHABILITATE RELOCATE	⊗ <sub>M∨</sub>	VALVE (TYPE NOTED)	
66\02-	EGL EL ELEC ESMT	ENERGY GRADE LINE ELEVATION ELECTRIC EASEMENT	RGRCP RR RT	RUBBER GASKET REINFORCED CONCRETE PIPE RAILROAD RIGHT		BUILDING SETBACK  DISTRICT BOUNDARY OR CITY LIMITS  EASEMENT	
-09	EVAC EXST F F/C	EAST VALLEY ASPHALT COMMITTEE EXISTING  FAX NUMBER FACE OF CURB	S S S/W S/O	SEWER SLOPE SOUTH SIDEWALK SOUTH OF	ıı_ 	FOREST BOUNDARY LINE MID-SECTION	
2—segment K ID BY DATE	FCDMC FF FG FH	FLOOD CONTROL DISTRICT OF MARICOPA COUNTY FINISH FLOOR ELEVATION FINISH GRADE ELEVATION FIRE HYDRANT	SD SE SEC SF	STORM DRAIN SOUTHEAST SECTION SQUARE FOOT		PROPERTY LINE RIGHT-OF-WAY SECTION	
CAD\iv-12	FHWA FL FL FL	FEDERAL HIGHWAY ADMINISTRATION FIRE LINE FLOWLINE FLANGE	SG SHLDR SHT SPEC SRP	SUBGRADE ELEVATION SHOULDER SHEET SPECIFICATIONS SALT RIVER PROJECT		CHANNEL	
CITY OF R	FND FO FT G	FOUND FIBER OPTIC FOOT OR FEET GUTTER ELEVATION	SSD ST STA STD	STOPPING SIGHT DISTANCE STREET STATION STANDARD		CURB & GUTTER  EDGE OF PAVEMENT	
	G GAF GB GM	GAS GRID ADJUSTMENT FACTOR GRADE BREAK GAS METER	STL SW SWG SY	STEEL SOUTHWEST SOUTHWEST GAS COMPANY SQUARE YARD		FENCE WOOD FENCE WIRE FENCE CHAINLINK	
REVISION BY DESCRIPTION	GND GV H HDPE	GROUND GAS VALVE  HORIZONTAL HIGH DENSITY POLYETHYLINE	T T T/W TBM	TOWNSHIP TANGENT LENGTH TOP OF WALL TEMPORARY BENCHMARK		FLOWLINE  GUARDRAIL  MASONEY WALL (BETAINING WALL)	
phx_pvc_	HDWL HGL HP HW	HEADWALL HYDRAULIC GRADE LINE HIGH PRESSURE HIGH WATER	TC TCE TEL TEMP	TOP OF CURB TEMPORARY CONSTRUCTION EASEMENT TELEPHONE TEMPORARY	1,50	MASONRY WALL/RETAINING WALL MAJOR CONTOUR MINOR CONTOUR	
7035_	HWY ID INV IRR	HIGHWAY INSIDE DIAMETER INVERT IRRIGATION	TN TOE TOP TRAN TS	TOP OF NUT TOE OF EMBANKMENT TOP TRANSITE PIPE TRAFFIC SIGNAL	+-+-+	RAILROAD SINGLE CURB	
/101	IKK IV	IRRIGATION VALVE	TYP	TYPICAL		SIDEWALK	

REVIATIONS & LEGEND								
	EXISTING		NEW					
— — CATV — —	CABLE TV		BENCHMARK					
— — СОММ — —	COMMUNICATION		BRASS CAP FLUSH					
—— · E · ——	ELECTRIC (UNDERGROUND)		BRASS CAP IN HANDHOLE					
— — ОНЕ — —	ELECTRIC (OVERHEAD)	0	BACKFLOW PREVENTER					
— — FO — —	FIBER OPTIC	₽H#X	BORING LOCATION					
— — FL — —	FIRE LINE		CACTUS					
— — 2" G — —	GAS		DRYWELL					
— —12" IRR— —	IRRIGATION LINE 18" OR SMALLER	lacktriangle	FIRE HYDRANT					
24" IRR	IRRIGATION LINE 21" OR LARGER	r r	FIRE DEPT CONNECTION					
— —12" RW— —	RECLAIMED WATER 18" OR SMALLER	þ	FLAG POLE					
24" RW	RECLAIMED WATER 21" OR LARGER		GATE					
T	TELEPHONE		HEADWALL					
— —12" S— —	SEWER LINE 18" OR SMALLER	ME	MAILBOX					
24"S	SEWER LINE 21" OR LARGER		MANHOLE					
— —12" SD— —	STORM DRAIN 18" OR SMALLER	M	METER					
24" SD	STORM DRAIN 21" OR LARGER		PIPE PLUG					
— —12" W— —	WATER LINE 18" OR SMALLER	<del>PH//</del> X	POTHOLE LOCATION					
24"_W	WATER LINE 21" OR LARGER	$\boxtimes$	PULLBOX					
			RIPRAP					

SHRUB

UTILITY POLE

LIMITS OF CONSTRUCTION

BASE FLOOD ELEVATION

VALVE

---- BUILDING SETBACK

---- CENTERLINE

———— EASEMENT

CHANNEL

---- RIGHT-OF-WAY

CURB & GUTTER

——c—— DAYLIGHT LINE, CUT

-----F---- DAYLIGHT LINE, FILL

----- EDGE OF PAVEMENT

FENCE WOOD

— ···· ← FLOWLINE

SIDEWALK

——— FENCE CHAINLINK

MAJOR CONTOUR

MINOR CONTOUR

SINGLE CURB

BYPASS PIPE

TRENCH PLATE

MASONRY WALL/RETAINING WALL

PIPE REHABILITATION/REPAIR

MANHOLE REHABILITATION

× STREET LIGHT

\$P\$ ★₩ TREE

-0-



F.H.W.A. REGION STATE NO. TOTAL AS BUILT PROJ. NO. 9 ARIZ. WS90500272 20

DIBBLE CK: MJL DATE: 01/2024 DES: KAD DR: FW

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Call at least two full working days

ARIZONA 811
Arizona Blue Staka, Inc.

THIS DOCUMENT MUST BE KEPT SECURE AT ALL TIMES.

PVC LINED CONCRETE SANITARY SEWER REHABILITATION

CITY OF PHOENIX, ARIZONA

WATER SERVICES DEPARTMENT

**LEGEND & ABBREVIATIONS** 

						WS
DR: FW	DES: KAD		CK: MJL	SHEET	TOTAL	1
DATE:01/2024	DATE:01/2024	DAT	E:01/2024	NO:	SHEETS	0
SCALE: NTS				2	20	

#### CITY OF PHOENIX GENERAL NOTES

- 1. PER PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE FURNISHED FOR INSPECTION OR COPYING, EXCEPT AS SPECIFICALLY STATED IN THE CITY CODE, OR AS REQUIRED BY LAW". THIS DOCUMENT MUST BE KEPT SECURE AT ALL TIMES.
- 2. 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 OR CONTRACT EXECUTION
- 3. FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH VERTICAL AND HORIZONTAL CONTROLS, ARE LOCATED APPROXIMATELY 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. CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THESE CONTRACT DOCUMENTS.
- 4. AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CALL "BLUE STAKE" AT (602) 263-1100 TO LOCATE AND IDENTIFY UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT OTHER APPROPRIATE UTILITIES DIRECTLY IF THEY ARE NOT IN BLUESTAKE SYSTEM.
- 5. VERTICAL CONTROL IS BASED ON NATIONAL GEODETIC SURVEY, NGVD 1929.
- 6. 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.
- 7. TRAFFIC CONTROL SHALL CONFORM TO THE MOST CURRENT CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL" AND SHALL BE SUBJECT TO CITY REVIEW AND APPROVAL.
- 8. ANY WORK BETWEEN 7:00PM TO 7:00AM (BETWEEN OCTOBER  $1^{\text{ST}}$  APRIL  $30^{\text{TH}}$ ) OR 7:00PM TO 6:00AM (BETWEEN MAY 1<sup>ST</sup> — SEPTEMBER 30<sup>TH</sup>) IN THE RIGHT OF WAY (ARTERIAL AND COLLECTOR STREETS) THAT IS WITHIN 500 FEET OF RESIDENCES REQUIRES AFTER HOURS WORK APPROVAL.
- 9. STREET PAVEMENT CUTS IN THE CITY RIGHT OF WAY WILL REQUIRE ASPHALT RESURFACING TREATMENT PER SECTION 31-49.1 OF THE PHOENIX CITY CODE.
- 10. CONTRACTOR TO NOTIFY THE PUBLIC THAT WILL BE AFFECTED BY ANY SEWER FLOW RESTRICTIONS OR DISRUPTIONS A MINIMUM OF 48 HOURS IN ADVANCE.
- 11. THE INSPECTOR FOR THE CITY SHALL BE NOTIFIED A MINIMUM OF 48 HOURS BEFORE THE CONSTRUCTION BEGINS.
- 12. THE CONSTRUCTION SHALL MAINTAIN SEWER SERVICE AT ALL TIMES UNLESS PRIOR APPROVAL FROM THE CITY IS GRANTED.
- 13. THE CONTRACTOR SHALL FLUSH EXISTING SEWER MAINS PRIOR TO PLUGGING OR ABANDONMENT.

## CITY OF PHOENIX ENVIRONMENTAL NOTES

- 1. CONTRACTOR, SUBCONTRACTORS, AND ALL FIELD PERSONNEL SHALL BE PROVIDED THE ATTACHED 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.
- 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. IF THERE IS A CHANGE IN SCOPE OR THE PROJECT LIMITS, THE CITY OF PHOENIX ENVIRONMENTAL QUALITY SPECIALIST (ANDREA LOVE [602-495-6718] OR JAMES MARSHALL [602-534-3747]) SHALL BE CONTACTED TO EVALUATE POTENTIAL IMPACTS.
- 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 (602-534-1573) 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.

#### CITY OF PHOENIX SEWER NOTES

- 1. THE INSPECTOR FOR THE CITY SHALL BE NOTIFIED A MINIMUM OF 48 HOURS BEFORE ANY CONSTRUCTION BEGINS.
- 2. ANY SEWER MAIN 15 INCH IN SIZE OR 12 FEET IN DEPTH, OR GREATER, REQUIRES 5 FOOT DIAMETER 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 M.A.G. SECTION 627.
- 4. MANHOLES WITH 60" DIAMETER AND PIPES GREATER THAN 12" REQUIRE COATING PER C.O.P. 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, HOWEVER, 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 THAT ERRORS AND OMISSIONS, AS FOUND ON PLANS, BE ADDRESSED BY 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 M.A.G. SPECIFICATIONS AND DETAILS AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. SPECIFICATIONS AND DETAILS. UNLESS MODIFIED ON THE PLANS.

### CITY OF PHOENIX SEWER NOTES (CONT'D)

- 7. ALL SEWER MAINS MUST HAVE A CCTV INSPECTION BEFORE ACCEPTED AS COMPLETE (SEE CITY OF PHOENIX SUPPLEMENT TO M.A.G. SPECIFICATION SECTION 615.3(C).
- 8. TRAFFIC REGULATIONS: ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE CURRENT CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL".
- 9. THE FOLLOWING M.A.G. 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 M.A.G. SECTION 601 & CITY OF PHOENIX SUPPLEMENTS.
- 12. NEW SEWER LINES ARE TO BE BUILT IN ACCORDANCE WITH CITY OF PHOENIX "STANDARD
- 13. A SIX (6) FOOT MINIMUM HORIZONTAL SEPARATION FROM ANY UNDERGROUND UTILITY SHALL BE PROVIDED 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
- 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 OR STORM DRAIN MAIN 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 M.A.G. 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 SEPARATION REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE
- 18. ANY SEWER LINES THAT ARE INSTALLED WITH LESS THAN .004 FT/FT SLOPE MUST BE INSTALLED USING A LASER.
- 19. WHEN DIP SEWER PIPE IS USED, CIPP-LINING IS REQUIRED PER CITY OF PHOENIX SUPPLEMENT TO MAG SECTION 751.
- 20. CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION.
- 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. INSTALLTION OF VCP SEWER SHALL CONFORM TO CITY OF PHOENIX SUPPLEMENT TO MAG DETAILS P1120 THROUGH P1127.

#### 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 180 DAYS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.
- 5. 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.
- 6. ALL NEW OR RELOCATED UTILITIES SHALL BE PLACED UNDERGROUND.

EXPENSE.

- 7. THE ACTUAL POINT OF PAVEMENT MATCHING, AND/OR TERMINATION, SHALL BE DETERMINED IN THE FIELD BY THE INSPECTOR FOR THE CITY.
- 8. 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.
- 9. OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- 10. ALL EXISTING CATCH BASINS MUST BE RE-LOCATED WHEN THEY ARE SHOWN IN A NEWLY PROPOSED DRIVEWAY. 11. CONSTRUCTION OF SURFACE IMPROVEMENTS SHALL NOT BEGIN UNTIL CONFLICTING

UNDERGROUND UTILITY CONSTRUCTION IS COMPLETED AND SERVICE CONNECTIONS TO ALL

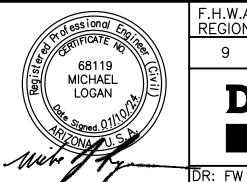
- PLATTED LOTS HAVE BEEN ADEQUATELY EXTENDED PAST THE RIGHT-OF-WAY. 12. THE CONTRACTOR SHALL ARRANGE FOR THE RELOCATION AND RELOCATION COSTS OF ALL UTILITIES, INCLUDING ANY STREET LIGHTS, AND SUBMIT A UTILITY RELOCATION SCHEDULE PRIOR TO CONSTRUCTION. RELOCATION OF WATER METERS SHALL BE DONE BY THE WATER SERVICES DEPARTMENT AFTER PAYMENT OF PREVAILING FEES. RELOCATION OF CITY FIRE HYDRANTS REQUIRE A SEPARATE PLAN REVIEW AND PERMIT AT THE CONTRACTOR'S
- 13. 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.
- 14. GRADING BETWEEN BACK OF CURB AND PROPERTY LINE SHALL BE LIMITED TO 4:1.

## CITY OF PHOENIX PAVING NOTES (CONT'D)

- 15. 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.
- 16. THE INSPECTOR 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.
- 17. STREET PAVEMENT CUTS IN THE CITY RIGHT OF WAY WILL REQUIRE ASPHALT RESURFACING TREATMENT PER SECTION 31-49.1 OF THE PHOENIX CITY CODE.

#### ENGINEER'S GENERAL NOTES

- 1. LOCATION OF UTILITIES SHOWN ON THE DRAWINGS ARE BASED ON INFORMATION PROVIDED BY OTHERS AND SHALL BE CONSIDERED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING ABOVE AND BELOW GROUND UTILITIES INCLUDING BUT NOT LIMITED TO, PIPELINES, DUCT BANKS, WIRES AND TRAFFIC SIGNAL CONTROLS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE UTILITY RELOCATION WITH OWNER AS NECESSARY.
- 2. OVERHEAD UTILITY LINES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXTENT OF ANY OVERHEAD UTILITIES AND SHALL FOLLOW PROCEDURES DURING CONSTRUCTION AS REQUIRED BY LAW AND REGULATION PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL MEET WITH ALL UTILITY OWNERS AND DETERMINE THE EXTENT OF HAZARD AND SHALL TAKE WHATEVER PRECAUTIONS ARE REQUIRED.
- 3. CONTRACTOR'S WORK SHALL BE SCHEDULED SO AS NOT TO UNDULY IMPEDE OR PREVENT ACCESS TO PRIVATE RESIDENCES, PUBLIC FACILITIES, OR BUSINESSES, EXCEPT BY PRIOR AGREEMENT WITH IMPACTED OWNERS OR OPERATORS.
- 4. THE CONTRACTOR SHALL LOCATE ALL UTILITIES THAT MAY CONFLICT OR BE AFFECTED BY THE WORK REQUIRED FOR THIS PROJECT. IF DAMAGED OR BROKEN, REPAIRS SHALL BE RESTORED USING NEW MATERIALS AT NO ADDITIONAL COST TO THE OWNER. WORK SHALL BE ACCEPTABLE TO THE OWNER AND THE UTILITY OWNER.
- 5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH PERMITS AND LICENSES OBTAINED FOR THIS PROJECT.
- 6. RESTORE ANY LANDSCAPED AREAS DAMAGED BY CONSTRUCTION TO ORIGINAL CONDITION OR BETTER, EXCEPT WHERE MODIFICATIONS ARE SPECIFICALLY NOTED ON PLANS, INDICATED IN SPECIFICATIONS OR CONTAINED IN PERMITS, AT NO ADDITIONAL COST TO THE OWNER.
- 7. LANDSCAPED AREAS HAVE IRRIGATION PIPING SYSTEMS NOT SHOWN ON THE DRAWINGS. CONTRACTOR SHALL RESTORE ALL IRRIGATION PIPING DAMAGED BY CONSTRUCTION AT NO ADDITIONAL COST TO OWNER.
- 8. UNLESS OTHERWISE SHOWN ON PLANS, INDICATED IN SPECIFICATIONS OR CONTAINED WITHIN PERMITS, CONTRACTOR SHALL REPLACE, IN KIND, ALL SERVICE LATERALS, PAVEMENTS, SIDEWALKS, CURBS, BERMS, DRAINAGE DITCHES AND ALL OTHER EXISTING FACILITIES, ABOVE OR BELOW GROUND, WHICH ARE REMOVED OR DAMAGED BY CONTRACTOR DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- 9. ALL EQUIPMENT AND MATERIALS IN CONTACT WITH POTABLE WATER DURING OR FOLLOWING CONSTRUCTION SHALL MEET NSF 60, 61 AND 372 REQUIREMENTS.
- 10. PROTECT ALL EXISTING STRUCTURES AND UTILITIES IN-PLACE NOT SPECIFICALLY CALLED OUT FOR MODIFICATION AND MAINTAIN UNOBSTRUCTED ACCESS.
- 11. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY EXISTING PIPE LOCATION, MATERIAL. CONDITION. AND DIMENSIONS PRIOR TO CONSTRUCTION.
- 12. AERIAL PHOTOGRAPHS WERE PROVIDED BY MARICOPA COUNTY (YEAR 2023)
- 13. CONTRACTOR TO USE EXTREME CAUTION WHILE WORKING IN THE VICINITY OF ALL GAS AND POWER LINES. THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE GAS AND POWER TRENCHES AND PIPELINES AT ALL TIMES. SPECIAL ATTENTION SHALL BE GIVEN TO BRACING AND SUPPORT FOR UNDERGROUND POWER CROSSINGS. TRENCHING WITHIN A TWO FOOT VICINITY OF GAS LINES SHALL BE BY HAND. ALL POWER LINE CROSSINGS SHALL BE BRACED DURING CONSTRUCTION. BRACING SHALL BE A NON PAY ITEM. POLE BRACING MAY BE REQUIRED WHEN EXCAVATING NEAR POWER POLES.
- 14. OPEN CUT SLOPES AND SHORING FOR 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.
- 15. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR REMOVAL OF CONTAMINATED SOIL AND A HAUL PLAN TO THE DISPOSAL SITE.
- 16. THE CONTRACTOR SHALL MAINTAIN SEWER SERVICE AT ALL TIMES, UNLESS PRIOR APPROVAL IS GRANTED BY THE OWNER.
- 17. IF REQUIRED CONTRACTOR SHALL FLUSH EXISTING SEWER MAIN PRIOR TO PLUGGING OR ABANDONMENT.
- 18. CONTRACTOR SHALL MAINTAIN BUSINESS ACCESS FOR LOCAL TRAFFIC ALONG PROJECT CORRIDOR DURING THE NORMAL BUSINESS HOURS. ANY TRAFFIC RESTRICTION SHALL BE REVIEWED AND BE ACCEPTED BY THE IMPACTED BUSINESS OWNER 48 HOURS PRIOR TO ROADWAY RESTRICTION.
- 19. CONTRACTOR SHALL PROVIDE MEANS FOR THE UNINTERRUPTED COLLECTIONS AND CONVEYANCE OF WASTEWATER FLOWS. SEE TECHNICAL SPECIFICATIONS SECTION 02145 - DIVERSION OF SEWAGE FLOW AND DEWATERING.
- 20. CONTRACTOR SHALL NOT LOCATE PUMPS OR COMPRESSORS REQUIRED TO RUN OUTSIDE OF THE HOURS OF 10:00 PM TO 7:00 AM NEAR RESIDENTIAL PROPERTY. PUMPS SHALL BE SILENCED. PUMP EQUIPMENT REQUIRE NOISE ABATEMENT MEASURES.
- 21. EXISTING R/W, SECTION LINES, CITY-OWNED UTILITIES PROVIDED BY CITY OF PHOENIX GEOGRAPHIC INFORMATION SYSTEM. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND UTILITY LOCATIONS PRIOR TO STARTING WORK.
- 22. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS & SIDEWALKS.
- 23. CONTRACTOR SHALL FIELD VERIFY EXISTING PIPE DIAMETER, MATERIAL & LOCATION PRIOR TO CONSTRUCTION.
- 24. ALL EXISTING UTILITIES MAY NOT BE SHOWN IN THESE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AZ811 (601-263-1100) OR BY DIALING 811 FOR UTILITY LOCATION A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION.
- 25. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO EXISTING STRUCTURES, PIPING, WORK, MATERIALS, OR EQUIPMENT BECAUSE OF ITS OPERATIONS, AND SHALL REPAIR OR REPLACE ANY DAMAGED STRUCTURES, PIPING, WORK, MATERIALS. OR EQUIPMENT TO THE SATISFACTION OF, AND AT NO ADDITIONAL COST TO, THE OWNER AND THE CITY OF PHOENIX.



NO. TOTAL AS BUILT STATE PROJ. NO. REGION ARIZ. WS90500272 20

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CK: MJL

DATE: 01/2024

## **ENGINEER'S GENERAL NOTES (CONT'D)**

26. CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES AND PROPERTY FROM DAMAGE AND SHALL PROVIDE BRACING, SHORING OR OTHER WORK NECESSARY FOR SUCH PROTECTION PER OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

DES: KAD

- 27. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGE TO STREETS, ROADS, CURBS, SIDEWALKS, DITCHES, EMBANKMENTS, LANDSCAPING, OR OTHER PUBLIC OR PRIVATE PROPERTY WHICH MAY BE CAUSED BY TRANSPORTING EQUIPMENT, MATERIALS, OR WORKERS TO OR FROM THE WORK OR ANY OTHER WORK ACTIVITIES. CONTRACTORS SHALL MAKE SATISFACTORY ARRANGEMENTS WITH THE AGENCY HAVING JURISDICTION OVER THE DAMAGED PROPERTY CONCERNING ITS REPAIR OR REPLACEMENT.
- 28. A SEWAGE SPILL IS DEFINED AS ANY RELEASE, PLANNED OR UNPLANNED. SEWAGE SPILLS ARE NOT PERMITTED. THE FOLLOWING ARE EXAMPLES OF A SEWAGE SPILL: FLOW OF SEWAGE OUT OF THE SEWER PIPE: SEWAGE LEAKS FROM FITTINGS, PIPES AND PUMPS THAT ARE NOT CAPTURED, AND SEWAGE IN CONTACT WITH THE SOIL, EITHER ON THE GROUND OR WITHIN PITS OR EXCAVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSEQUENCES AND DAMAGES CAUSED BY A SEWAGE SPILL DUE TO THE CONTRACTOR'S WORK ACTIVITIES.
- 29. ALL PROPOSED ROADWAY RESTRICTIONS SHALL BE SUBMITTED IN A TRAFFIC CONTROL PLAN AND TEMPORARY RESTRICTION AND CLOSURE SYSTEM (TRACS) PERMIT, PER CITY OF PHOENIX TBM 9TH EDITION, FOR APPROVAL PRIOR TO COMMENCEMENT OF OPERATIONS. THE CONTRACTOR WILL SUBMIT TRACS PERMIT 7 DAYS PRIOR TO THE ENGINEER FOR REVIEW AND SUBMISSION TO THE RIGHT-OF-WAY DEPARTMENT.

#### ENGINEER'S NOTES FOR SEWER RAHBILITATION

- 1. CONTRACTOR TO CLEAN THE EXISTING SANITARY SEWER PIPE AND STRUCTURES PER TECHNICAL SPECIFICATION SECTION 02760
- 2. CONTRACTOR TO PERFORM PRE-REHABILITATION AND POST-REHABILITATION CCTV REMOTE INSPECTION PER TECHNICAL SPECIFICATION SECTION 02761.
- 3. CONTRACTOR TO REPAIR PIPE DEFECTS. KNOWN PIPE DEFECTS BASED ON A 2016 CONDITION ASSESSMENT ARE INDICATED ON THE PLANS. IF ADDITIONAL PIPE DEFECTS ARE IDENTIFIED IN THE PRE-REHABILITATION CCTV FOOTAGE, THE CONTRACTOR SHALL PERFORM SPOT REPAIRS PER DETAIL A, SHT 12 ON THE DEFECTS PRIOR TO CIPP LINING.
- 4. CONTRACTOR TO REHABILITATE THE EXISTING SANITARY SEWER MAIN PER TECHNICAL SPECIFICATION SECTION 02167.



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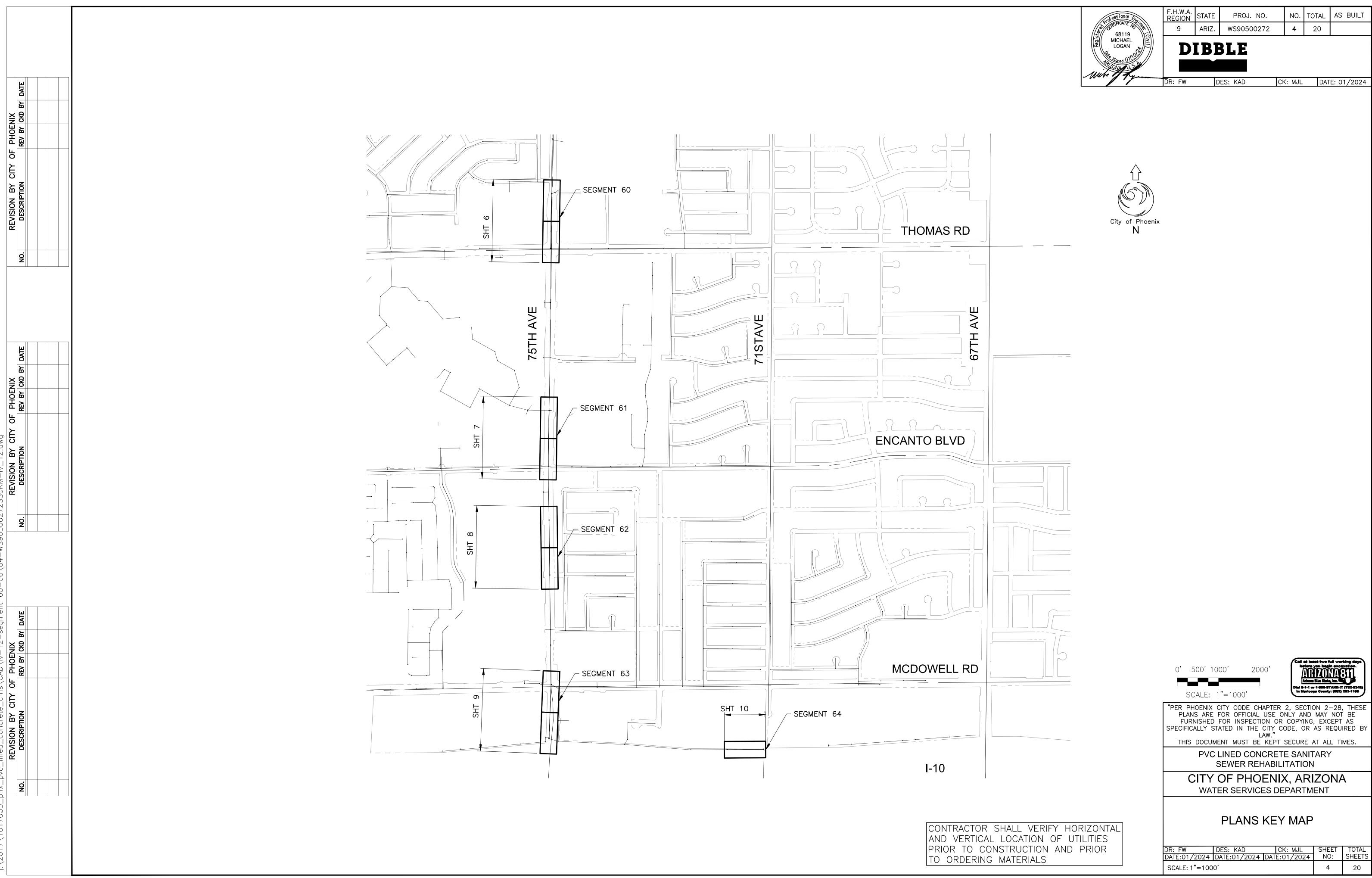
PVC LINED CONCRETE SANITARY SEWER REHABILITATION

CITY OF PHOENIX, ARIZONA WATER SERVICES DEPARTMENT

GENERAL NOTES

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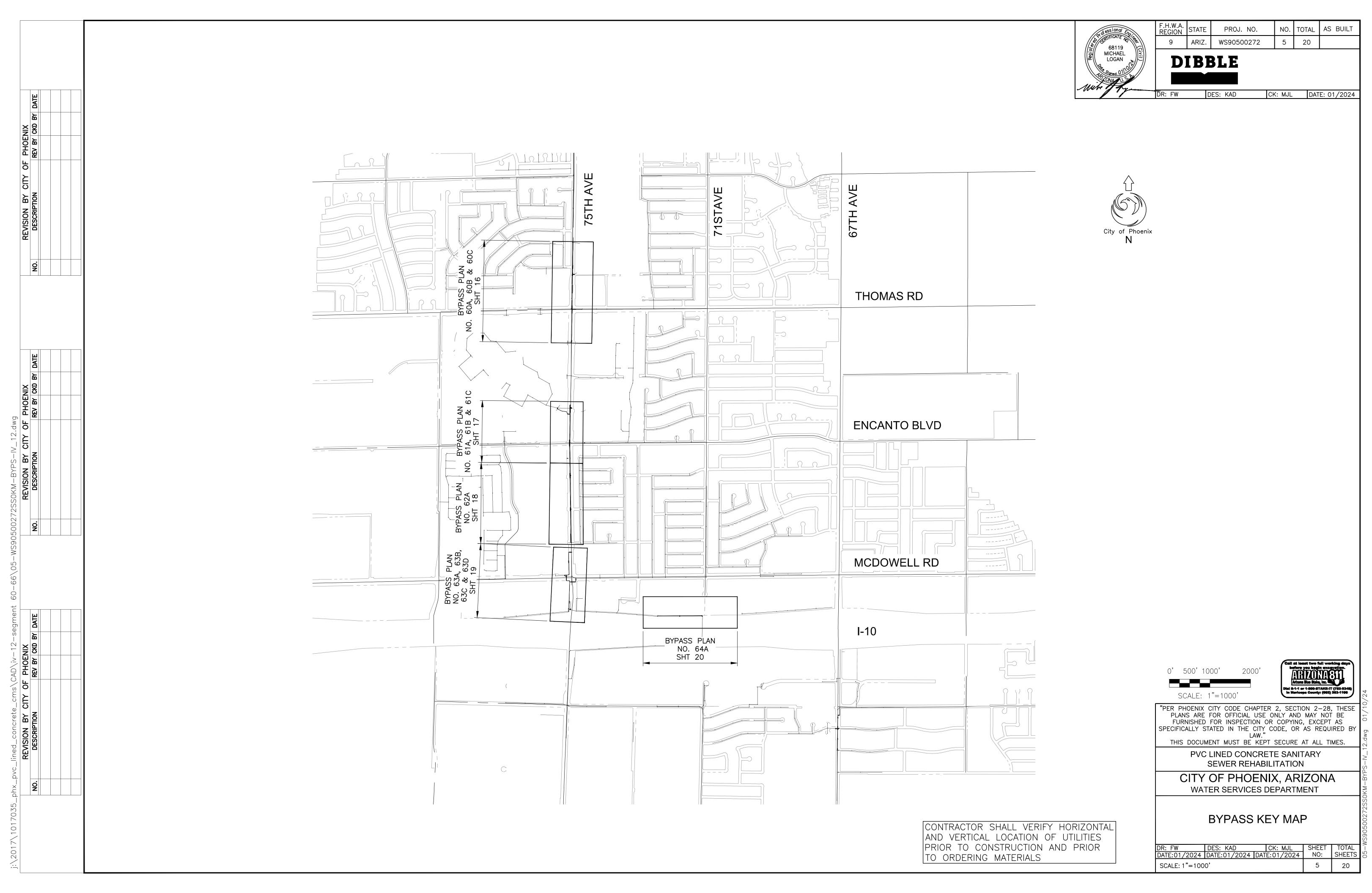
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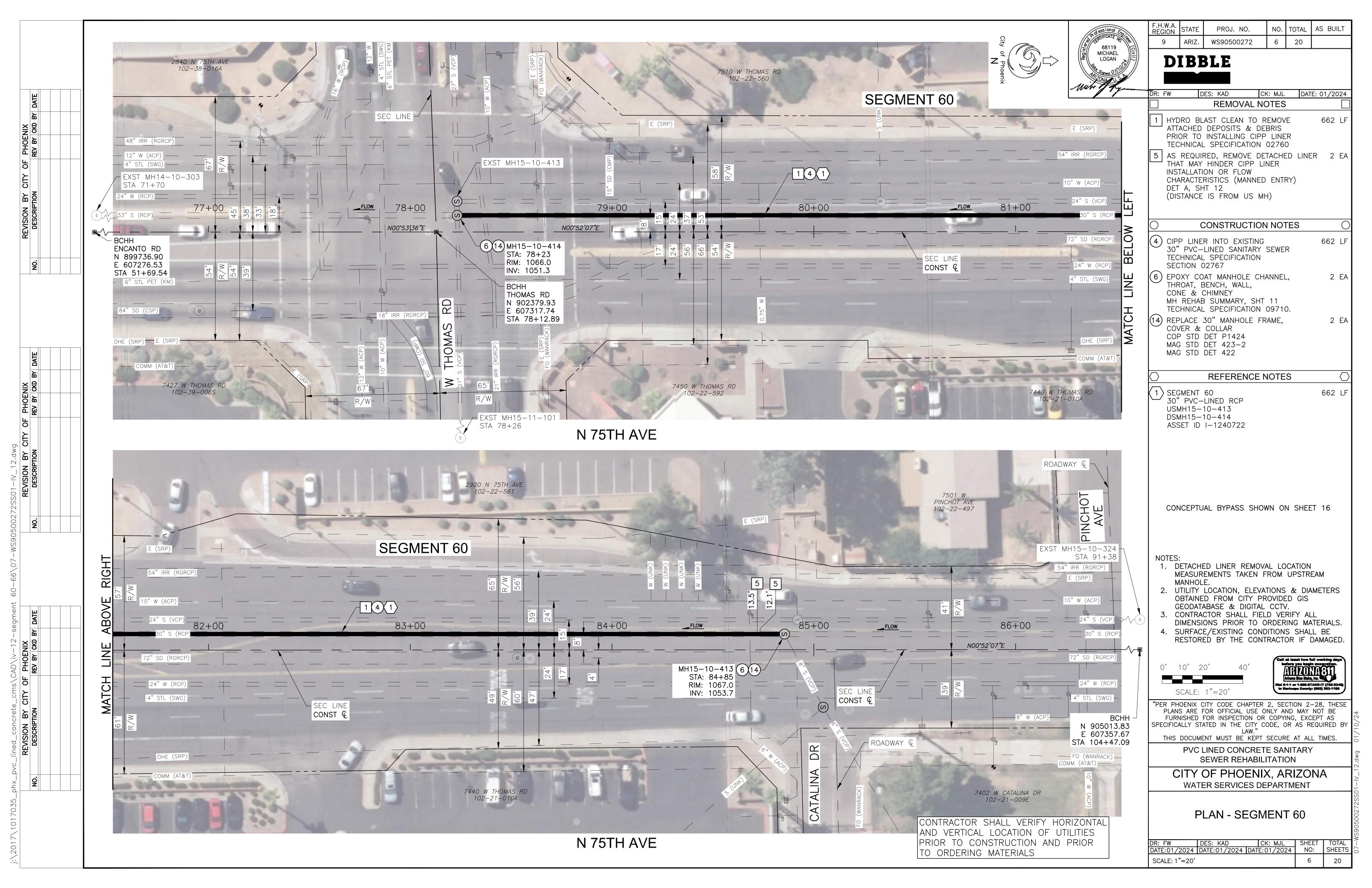
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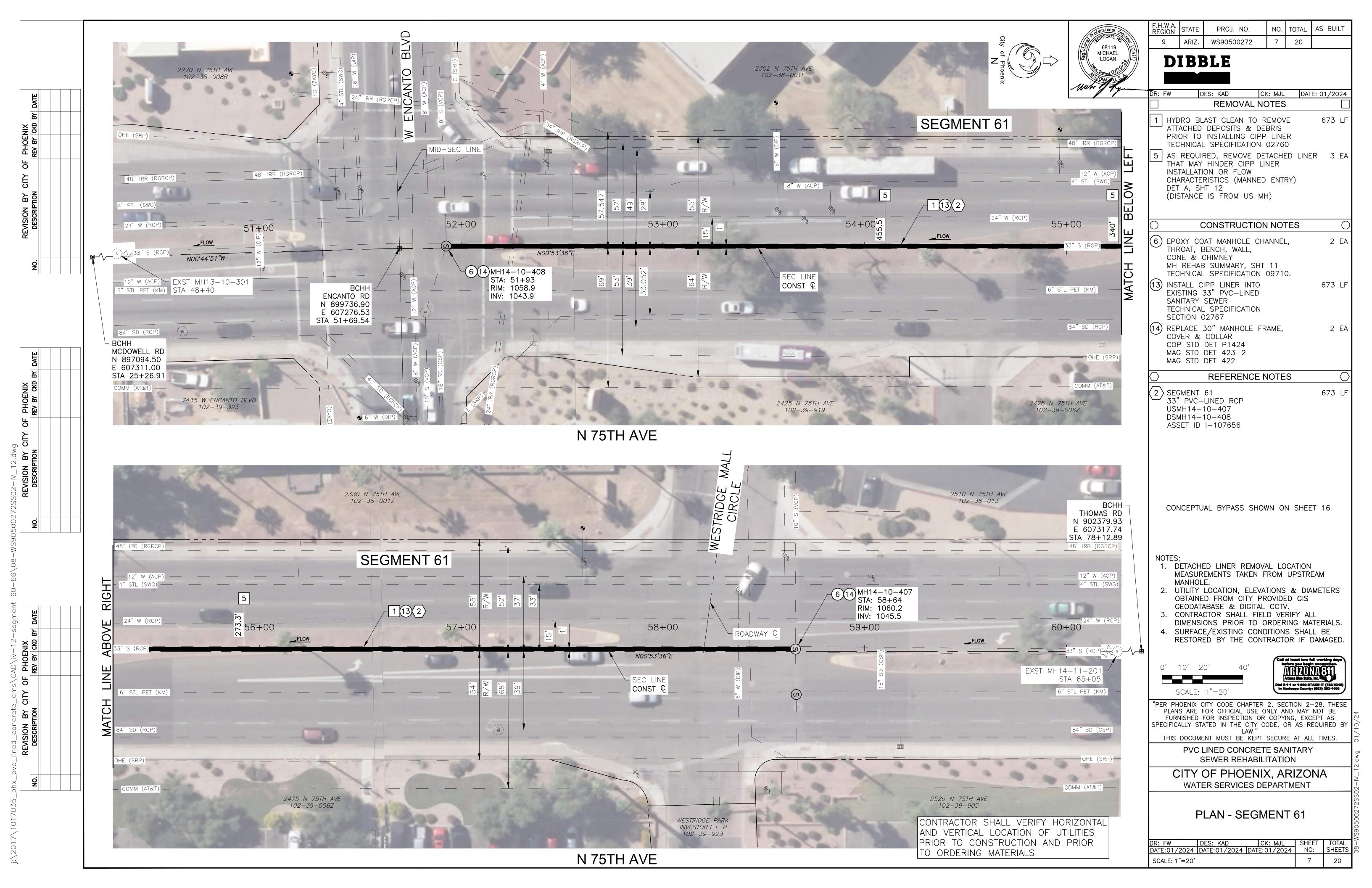
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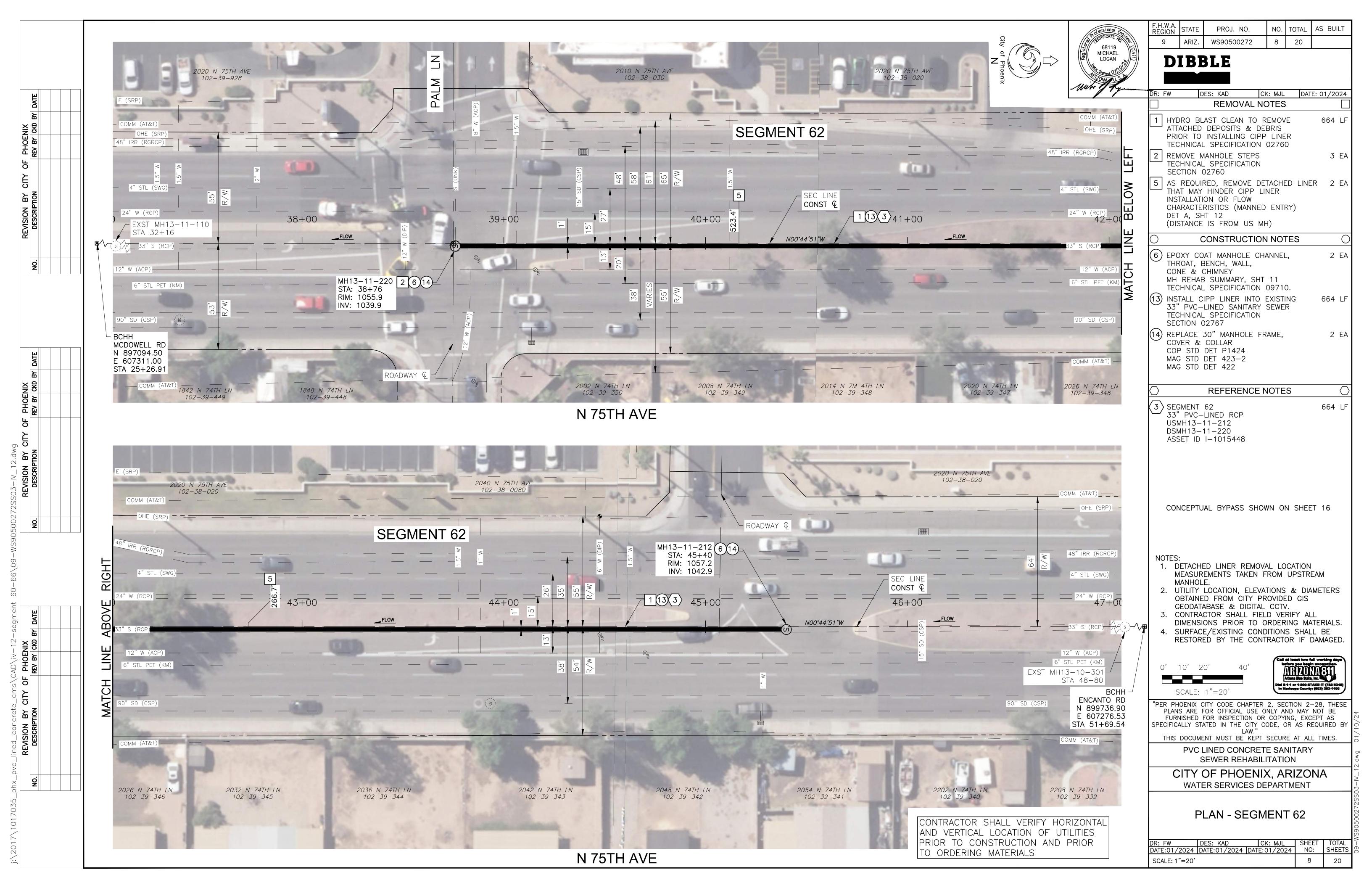
CITY OF PHOENIX, ARIZONA

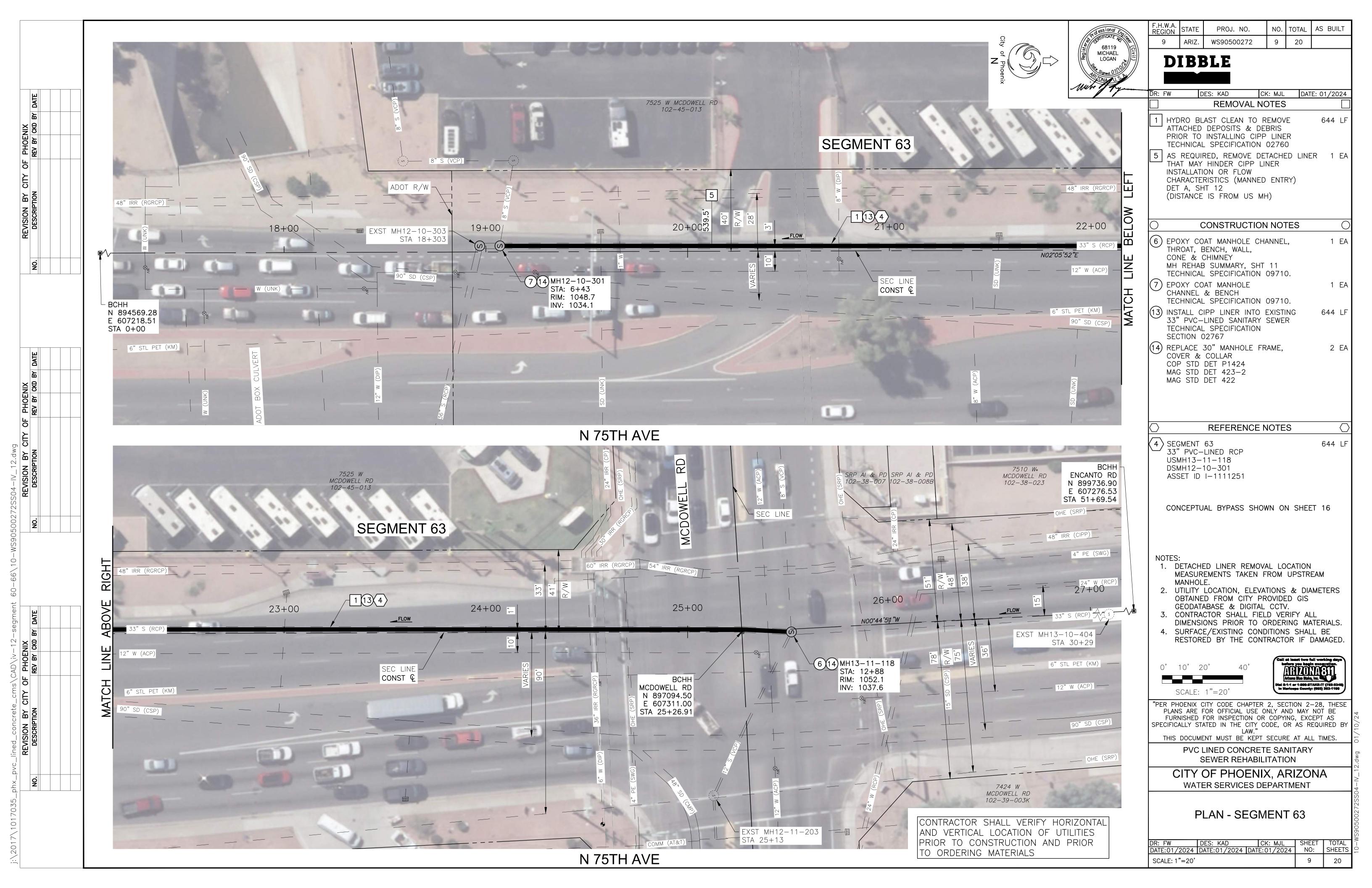
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## TABLE 1 - MANHOLE REHABILITATION SUMMARY

Manhole	Synergen ID	Location	Exst Material	Exst Lining	Depth (VF)	Epoxy Coating	Step Removal	Manhole Repairs*
15-10-413	I-1240722	75th Ave & Catalina Dr	Brick	None	13	Throat, Bench, Wall, Cone & Chimney	, temeral	·
.5-10-414	I-1201945	75th Ave & Thomas Rd	Brick	None	15	Throat, Bench, Wall, Cone & Chimney		
4-10-407	I-1201180	75th Ave & Encanto Blvd	Brick	None	14	Throat, Bench, Wall, Cone & Chimney		
.4-10-408	I-1201185	75th Ave & Encanto Blvd	Brick	None	15	Throat, Bench, Wall, Cone & Chimney		
.3-11-212	I-1208847	75th Ave & Palm Ln	Brick	None	14	Throat, Bench, Wall, Cone & Chimney		
.3-11-220	I-1208848	75th Ave & Palm Ln	Brick	None	16	Throat, Bench, Wall, Cone & Chimney	3 EA	
.3-11-118	I-1208849	75th Ave & McDowell Rd	Brick	None	14	Throat, Bench, Wall, Cone & Chimney		
12-10-301	I-1173007	75th Ave & McDowell Rd	Unknown	Ероху	15	Channel & Bench		
.2-11-304	I-1203397	ADOT Drainage Channel / I-10	Unknown	Ероху	23	Channel		
2-11-305	I-1259872	ADOT Drainage Channel / I-10	Unknown	Ероху	25	Channel		
.5-10-324	I-1240715	75th Ave & Osborn Rd	Brick	None	13	Throat, Bench, Wall, Cone & Chimney		
15-11-104	I-1202496	75th Ave & Catalina Dr	Unknown	Unknown**	8	Throat, Bench, Wall, Cone & Chimney	6 EA	
15-11-101	I-1247859	75th Ave & Thomas Rd	Unknown	Unknown**	12	Channel & Bench		
14-10-303	I-1244015	75th Ave & Westridge Mall Cir	Brick	None	15	Throat, Bench, Wall, Cone & Chimney		
14-10-406	I-1201179	75th Ave & Westridge Mall Cir	Unknown	Unknown**	8	Channel & Bench	4 EA	Fracture @ chimney, Crack @ chimney & wall, surface aggregate visible @ bench
14-11-105	I-1201154	75th Ave & Westridge Mall Cir	Unknown	Unknown**	10	Channel & Bench	8 EA	Cracks @ chimney, surface aggregate visible/projecting @ chimney, wall & be
13-10-301	I-1215246	75th Ave & Encanto Blvd	Unknown	Unknown**	14	Channel & Bench		
13-11-110	I-1245438	75th Ave & Coronado Rd	Unknown	Unknown**	16	Channel & Bench		
13-10-404	I-1245288	75th Ave & Coronado Rd	Unknown	Unknown**	14	Channel & Bench		
13-10-402	I-1230500	75th Ave & McDowell Rd	Unknown	Unknown**	10	Throat, Bench, Wall, Cone & Chimney		
.2-11-203	I-1203391	75th Ave & McDowell Rd	Unknown	Unknown**	10	Throat, Bench, Wall, Cone & Chimney		
12-10-303	I-1254734	75th Ave & I-10	Concrete (Non-Reinforced)	Ероху	14	Chimney		Fracture @ chimney
.2-10-305	I-1203377	75th Ave & I-10	Unknown	Unknown**	10	Channel & Bench		
.2-11-303	I-1203398	ADOT Drainage Channel / I-10	Unknown	Unknown**	20	Throat, Bench, Wall, Cone & Chimney		
12-11-306	I-1235518	ADOT Drainage Channel / I-10	Unknown	Unknown**	26	Throat, Bench, Wall, Cone & Chimney		

\*\*If manhole is PVC-lined, refer to details on Sht 14.

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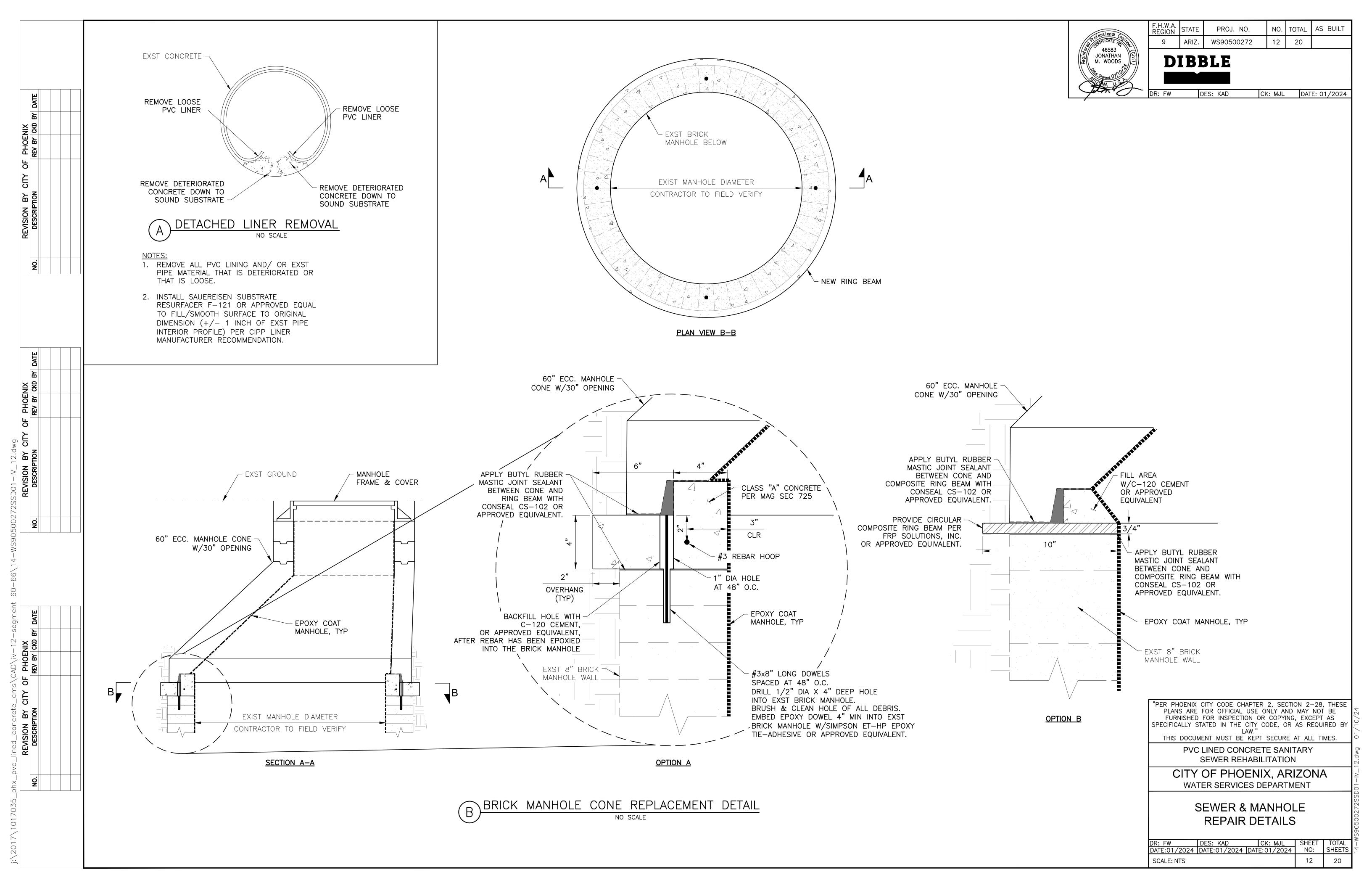
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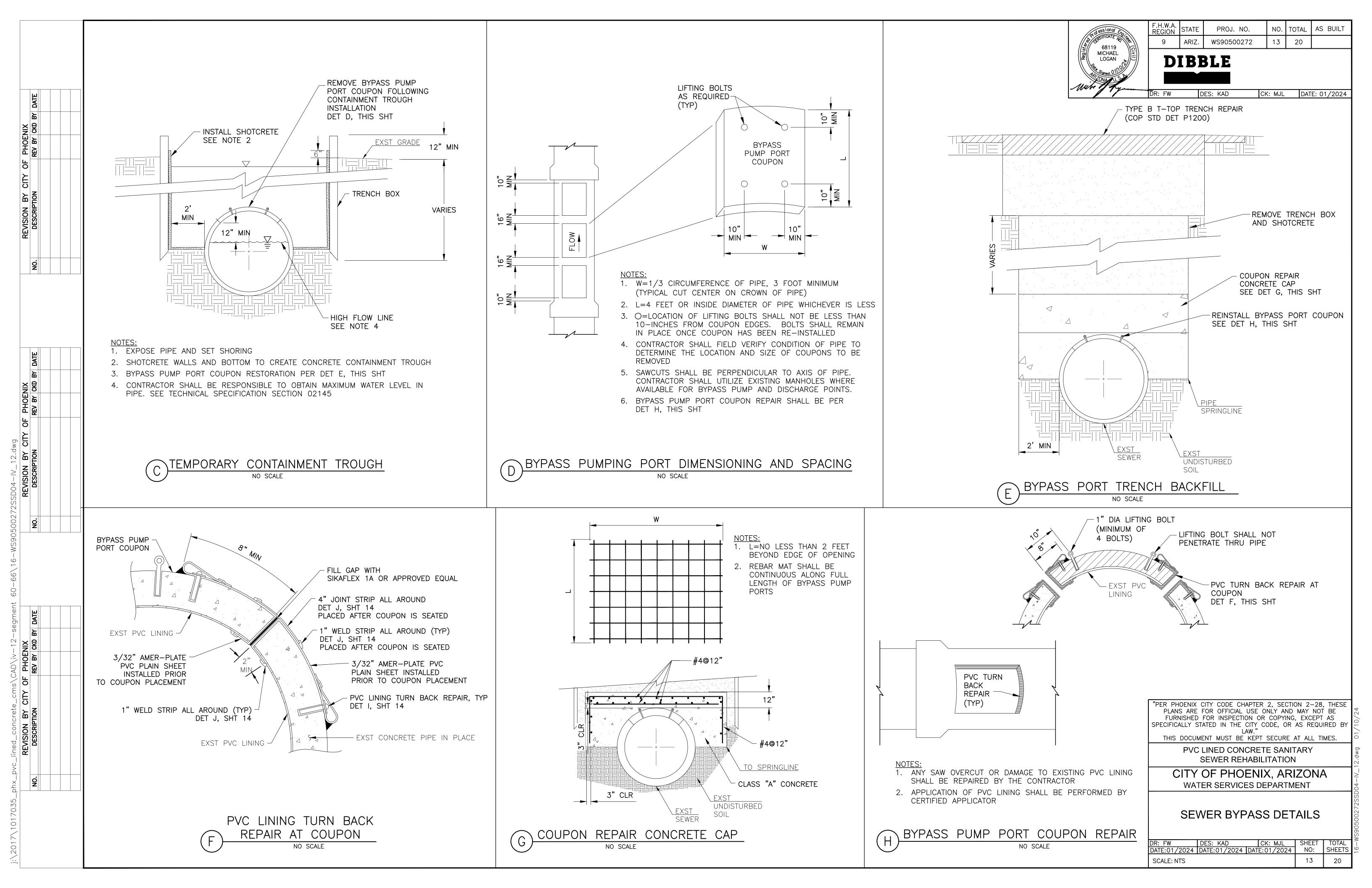
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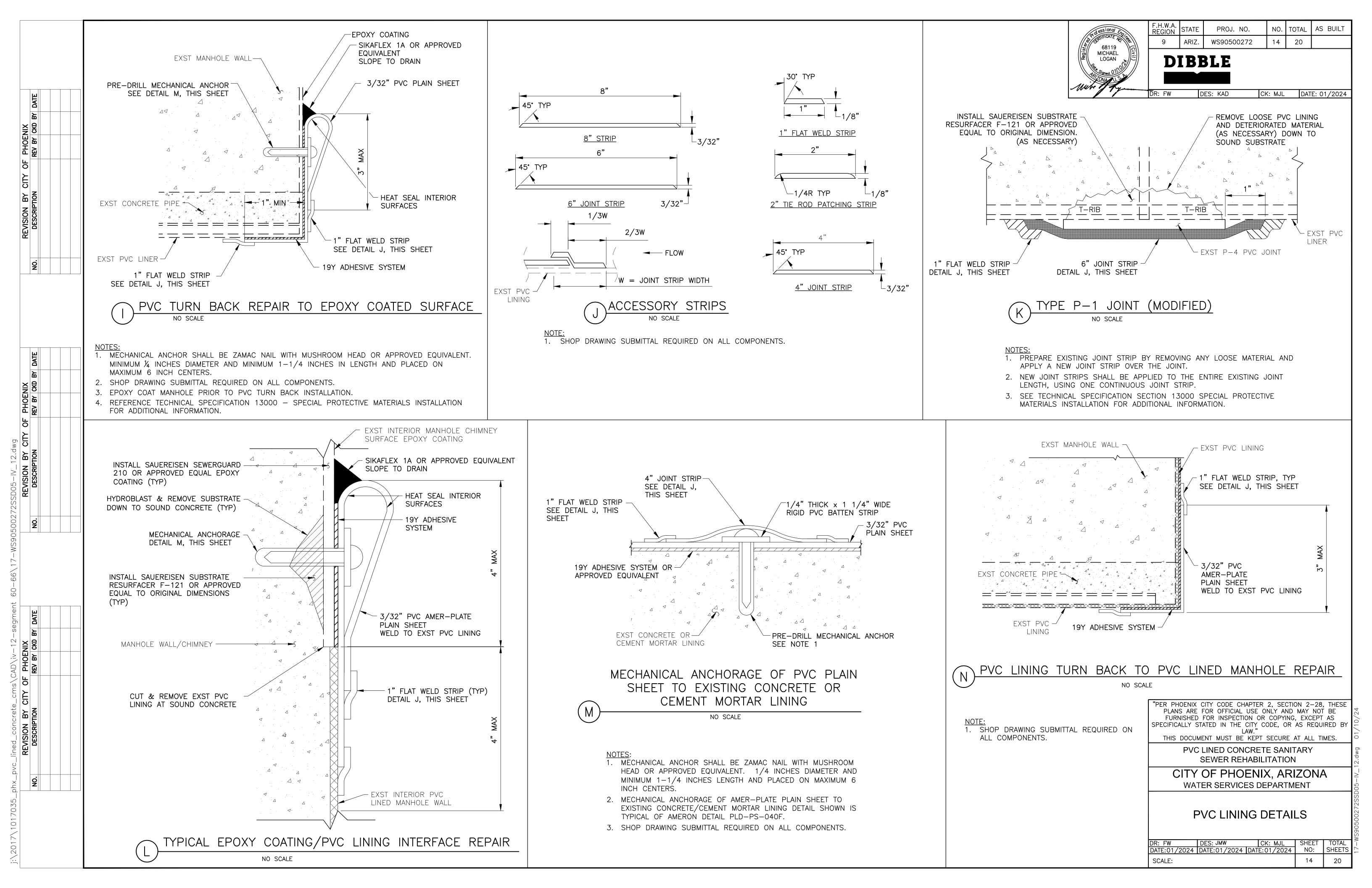
SEWER REHABILITATION CITY OF PHOENIX, ARIZONA WATER SERVICES DEPARTMENT

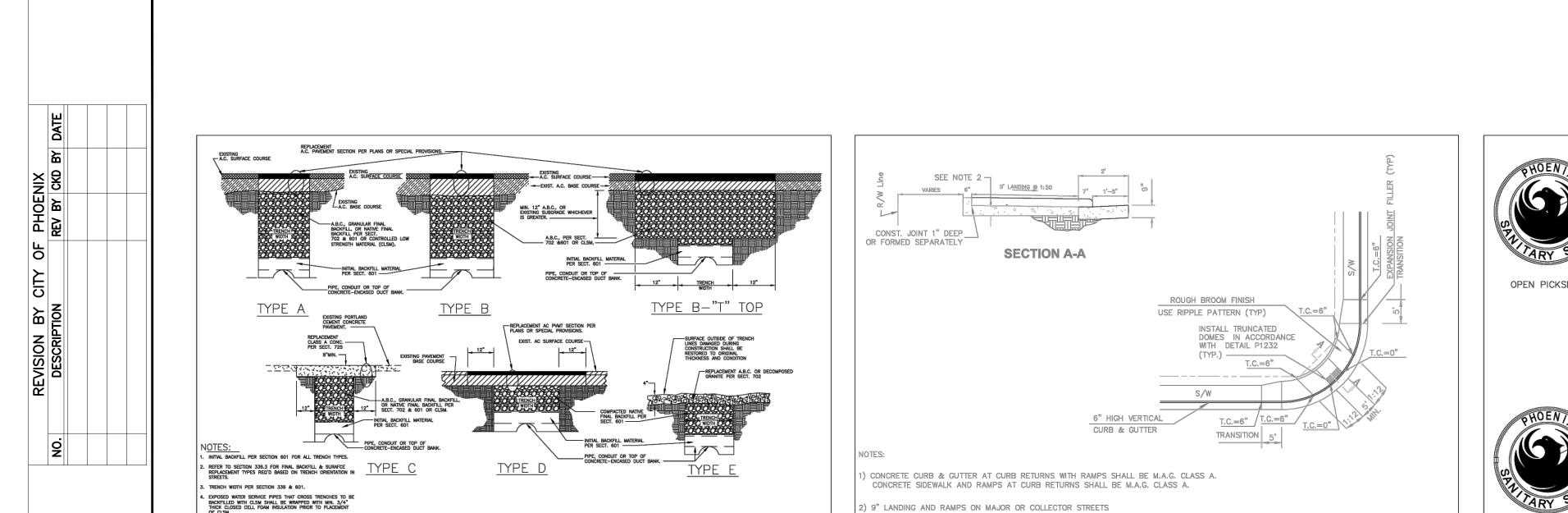
MANHOLE REHABILITATION SUMMARY

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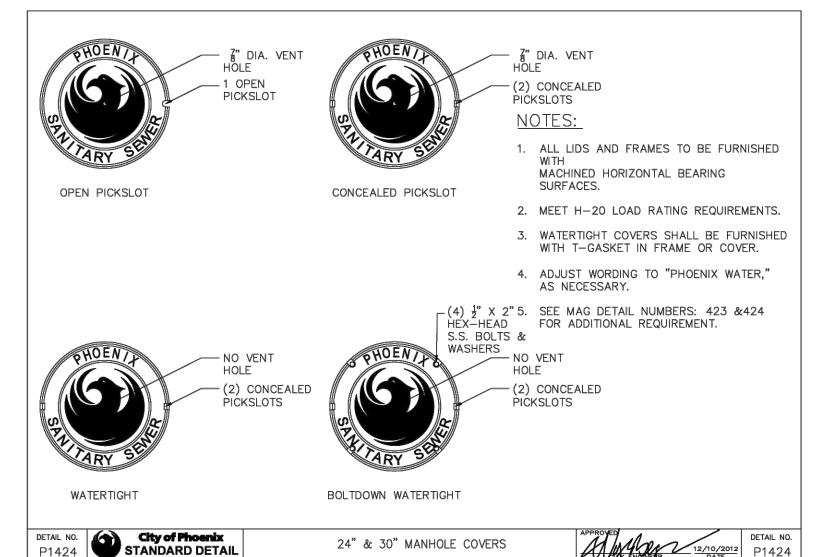
07/01/2015 DETAIL NO. P1200

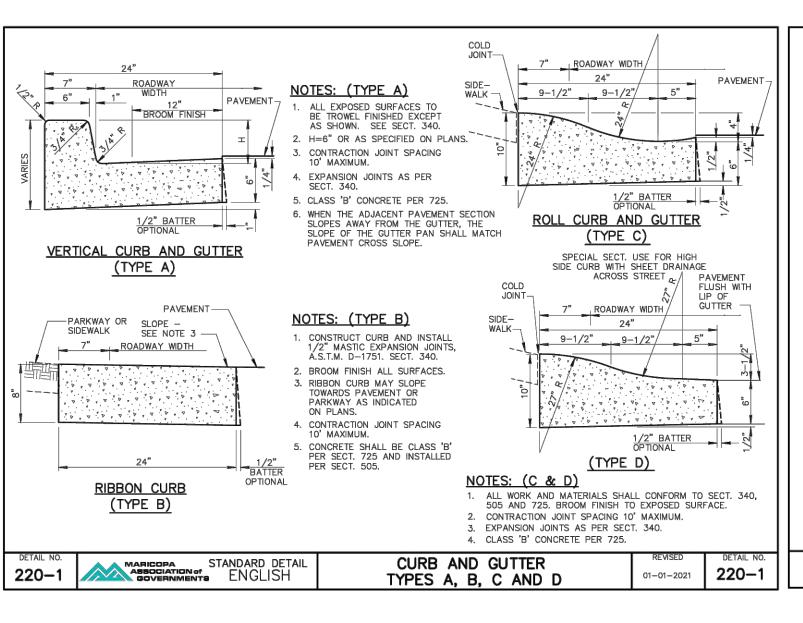
AND 4" LANDING AND RAMPS ON LOCAL STREETS.

City of Phoenix STANDARD DETAIL

TO BE PROVIDED ON SEALED CONSTRUCTION DOCUMENTS.

3) DETAIL PROVIDED FOR GENERAL GUIDANCE. RAMP ELEVATIONS, SLOPES, AND DISTANCES



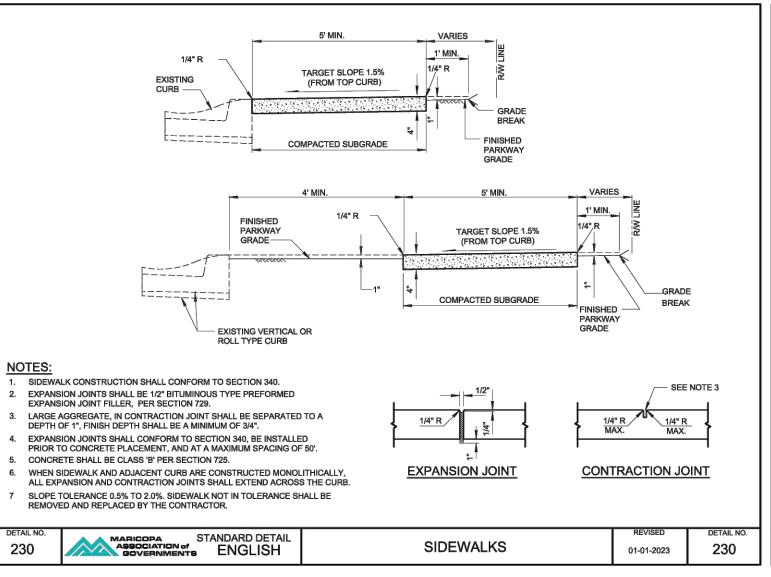


TRENCH BACKFILL

& SURFACE REPLACEMENT

P1200 City of Phoenix
STANDARD DETAIL

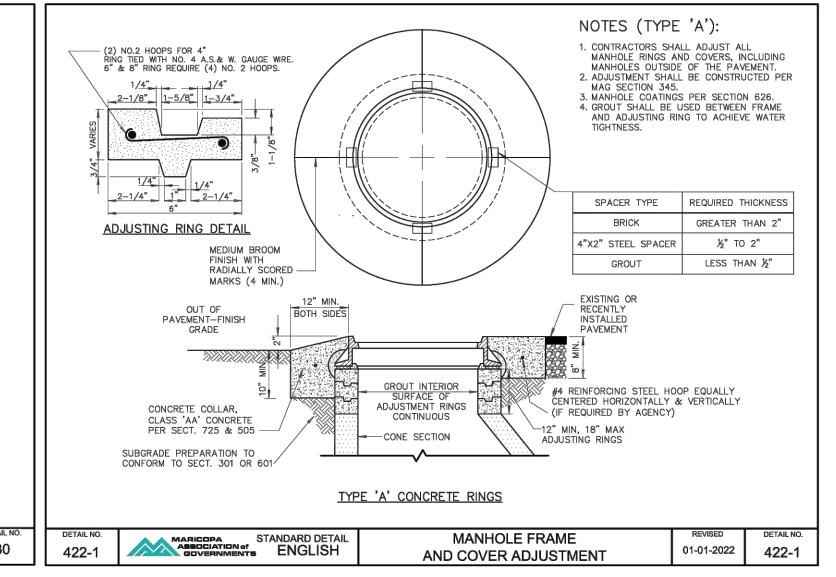
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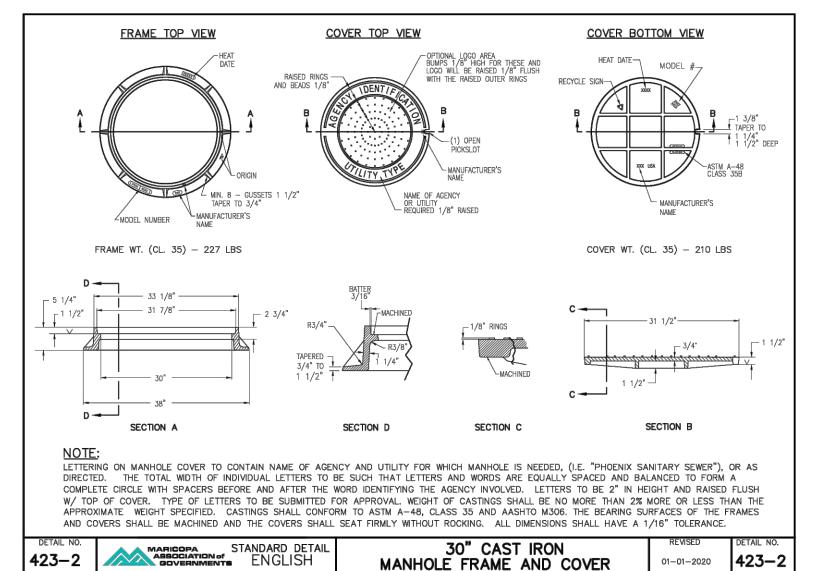


SINGLE SIDEWALK RAMP DETAIL

WITH LIMITED R/W

04/01/2022 P1240-







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REGION STATE

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CK: MJL

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PVC LINED CONCRETE SANITARY SEWER REHABILITATION

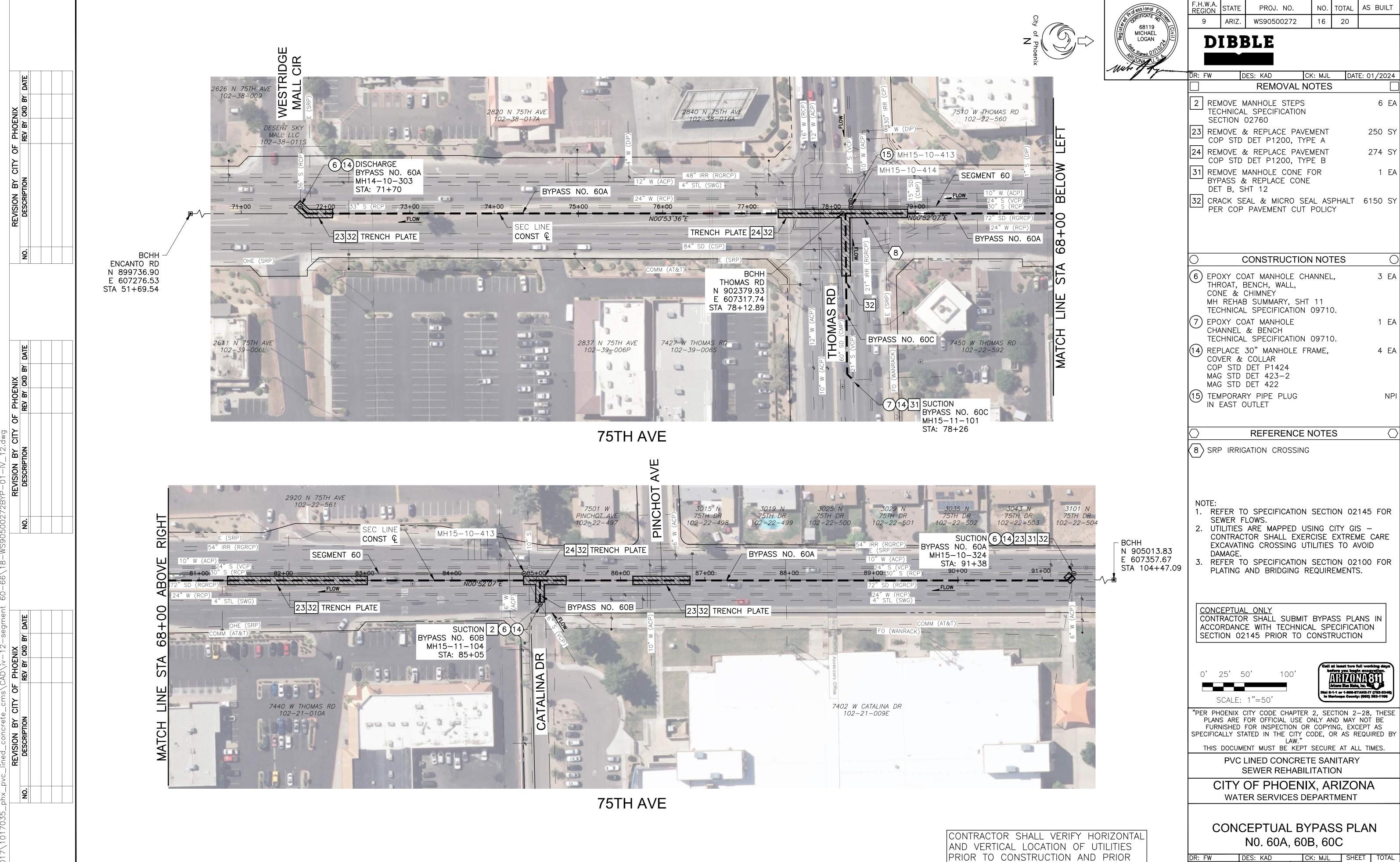
CITY OF PHOENIX, ARIZONA WATER SERVICES DEPARTMENT

CITY OF PHOENIX STANDARD

 
 DR:
 FW
 DES:
 KAD
 CK:
 MJL

 DATE:01/2024
 DATE:01/2024
 DATE:01/2024
 NO: SHEETS SCALE: 15

**DETAILS** 



NO. TOTAL AS BUILT PROJ. NO.

SHEET TOTAL NO: SHEETS DR: FW DES: KAD CK: MJL
DATE:01/2024 DATE:01/2024 SCALE: 1"=100'

TO ORDERING MATERIALS





 F.H.W.A. REGION
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 WS90500272
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## DIBBLE

DES: KAD

2	REMOVE MANHOLE STEPS TECHNICAL SPECIFICATION SECTION 02760	12	EA
21	REMOVE & REPLACE CONCRETE SIDEWALK MAG STD DET 230	100	SF
24	REMOVE & REPLACE PAVEMENT COP STD DET P1200, TYPE B	141	SY
26	REMOVE & REPLACE CONCRETE SINGLE CURB MAG STD DET 220-1, TYPE A	50	LF
27	RESTORE LANDSCAPING	1	LS
28	REMOVE & REPLACE PAVEMENT COP STD DET P1200, TYPE B T-TOP	225	SY

32 CRACK SEAL & MICRO SEAL ASPHALT 3170 SY

**CONSTRUCTION NOTES** 

**REMOVAL NOTES** 

CK: MJL

DATE: 01/2024

2 EA

PER COP PAVEMENT CUT POLICY

1 CUT COUPON FOR SUCTION PIT 1 EADET C-H, SHT 15
7 EPOXY COAT MANHOLE 2 EACHANNEL & BENCH

# TECHNICAL SPECIFICATION 09710. 9 REPAIR MANHOLE PER TECHNICAL SPECIFICATION 09710. REFER TO TABLE 1, SHT 11

14) REPLACE 30" MANHOLE FRAME, 2 EA COVER & COLLAR COP STD DET P1424 MAG STD DET 423-2 MAG STD DET 422

(19) TEMPORARY FLOW THROUGH PLUG NPI

## REFERENCE NOTES

8 SRP IRRIGATION CROSSING

EAST & WEST INLETS

#### NOTE:

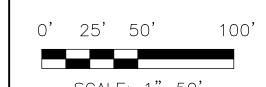
1. REFER TO SPECIFICATION SECTION 02145 FOR SEWER FLOWS.

2. UTILITIES ARE MAPPED USING CITY GIS — CONTRACTOR SHALL EXERCISE EXTREME CARE EXCAVATING CROSSING UTILITIES TO AVOID DAMAGE.

3. REFER TO SPECIFICATION SECTION 02100 FOR PLATING AND BRIDGING REQUIREMENTS.

## CONCEPTUAL ONLY

CONTRACTOR SHALL SUBMIT BYPASS PLANS IN ACCORDANCE WITH TECHNICAL SPECIFICATION SECTION 02145 PRIOR TO CONSTRUCTION





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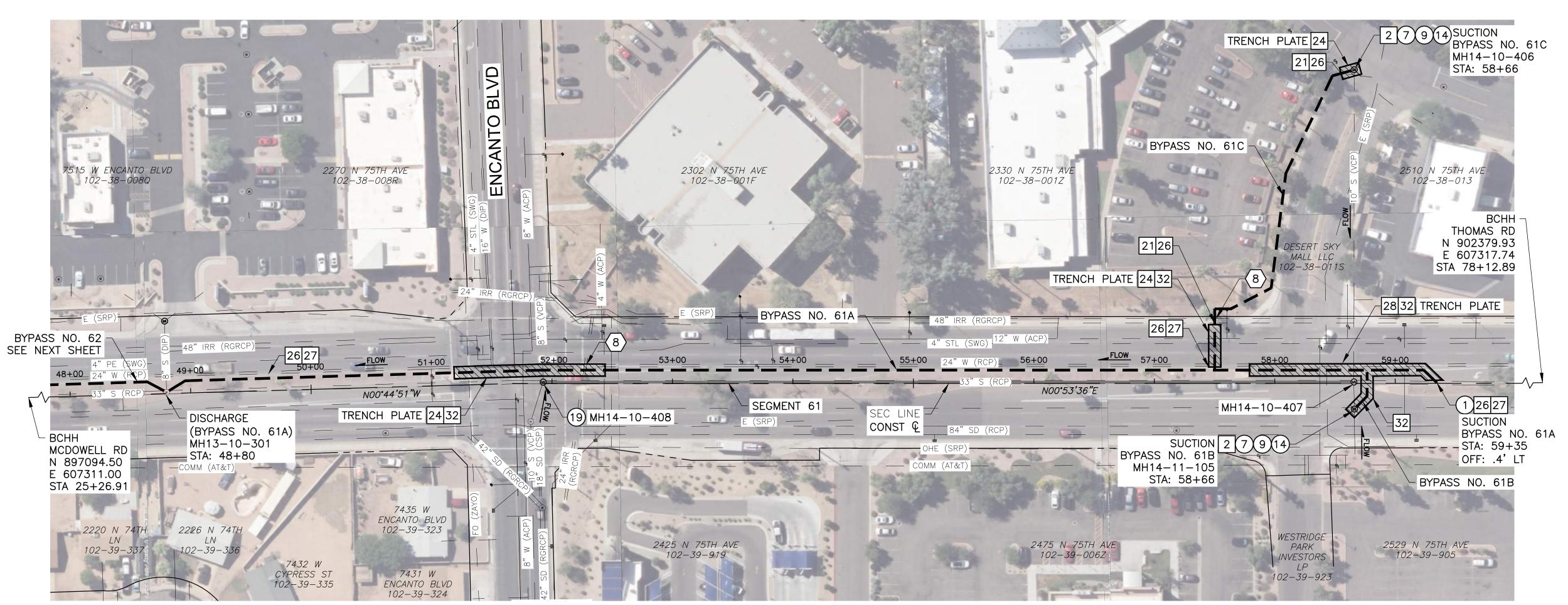
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PVC LINED CONCRETE SANITARY SEWER REHABILITATION

CITY OF PHOENIX, ARIZONA WATER SERVICES DEPARTMENT

## CONCEPTUAL BYPASS PLAN NO. 61A, 61B, 61C

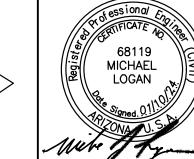
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SCALE: 1"=100	,			17	20	



N 75TH AVE

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MATERIALS





F.H.W.A. REGION STATE NO. TOTAL AS BUILT ARIZ. WS90500272 18

# DIBBLE

DES: KAD

REMOV	AL NOTES		
REMOVE & REPLACE	PAVEMENT	87	S

CK: MJL

DATE: 01/2024

2 EA

- COP SID DEI P1200, TYPE A 224 SY 24 REMOVE & REPLACE PAVEMENT COP STD DET P1200, TYPE B
- 27 RESTORE LANDSCAPING 31 REMOVE MANHOLE CONE FOR BYPASS & 1 EA
- REPLACE CONE DET B, SHT 12
- 32 CRACK SEAL & MICRO SEAL ASPHALT 4399 SY PER COP PAVEMENT CUT POLICY

#### **CONSTRUCTION NOTES**

(7) EPOXY COAT MANHOLE CHANNEL & BENCH

MAG STD DET 422

TECHNICAL SPECIFICATION 09710. (14) REPLACE 30" MANHOLE FRAME, 2 EA COVER & COLLAR COP STD DET P1424 MAG STD DET 423-2

#### REFERENCE NOTES

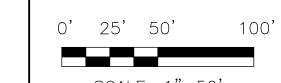
## 1. REFER TO SPECIFICATION SECTION 02145 FOR

- 2. UTILITIES ARE MAPPED USING CITY GIS -CONTRACTOR SHALL EXERCISE EXTREME CARE EXCAVATING CROSSING UTILITIES TO AVOID DAMAGE.
- 3. REFER TO SPECIFICATION SECTION 02100 FOR PLATING AND BRIDGING REQUIREMENTS.

CONCEPTUAL ONLY

SEWER FLOWS.

CONTRACTOR SHALL SUBMIT BYPASS PLANS IN ACCORDANCE WITH TECHNICAL SPECIFICATION SECTION 02145 PRIOR TO CONSTRUCTION





"PER PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE FURNISHED FOR INSPECTION OR COPYING, EXCEPT AS SPECIFICALLY STATED IN THE CITY CODE, OR AS REQUIRED BY LAW."

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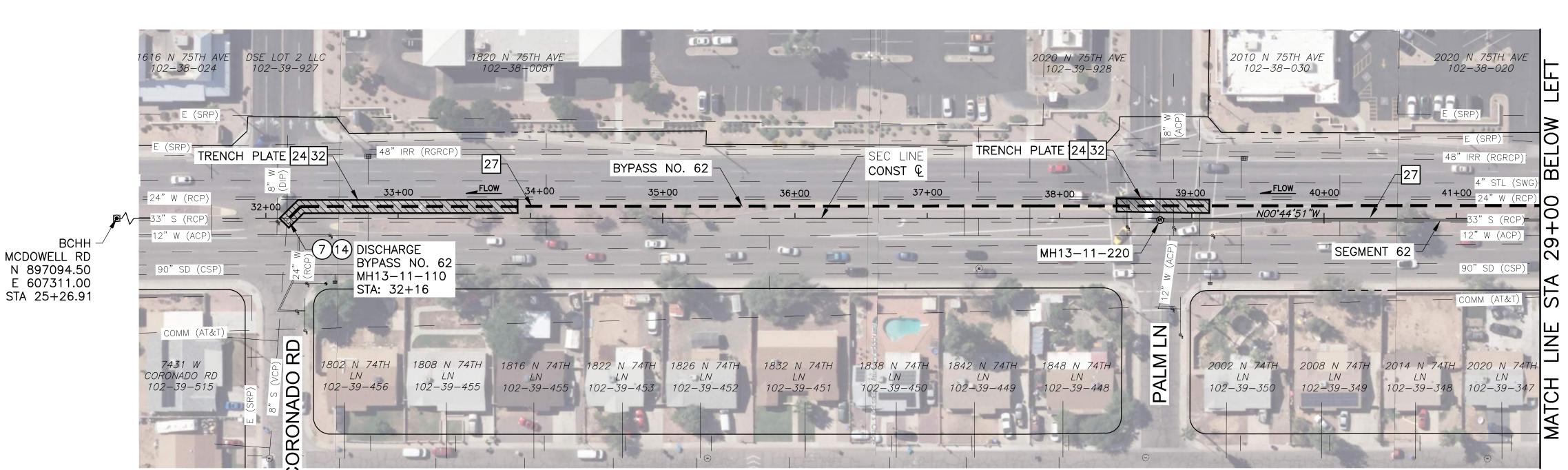
PVC LINED CONCRETE SANITARY

SEWER REHABILITATION CITY OF PHOENIX, ARIZONA

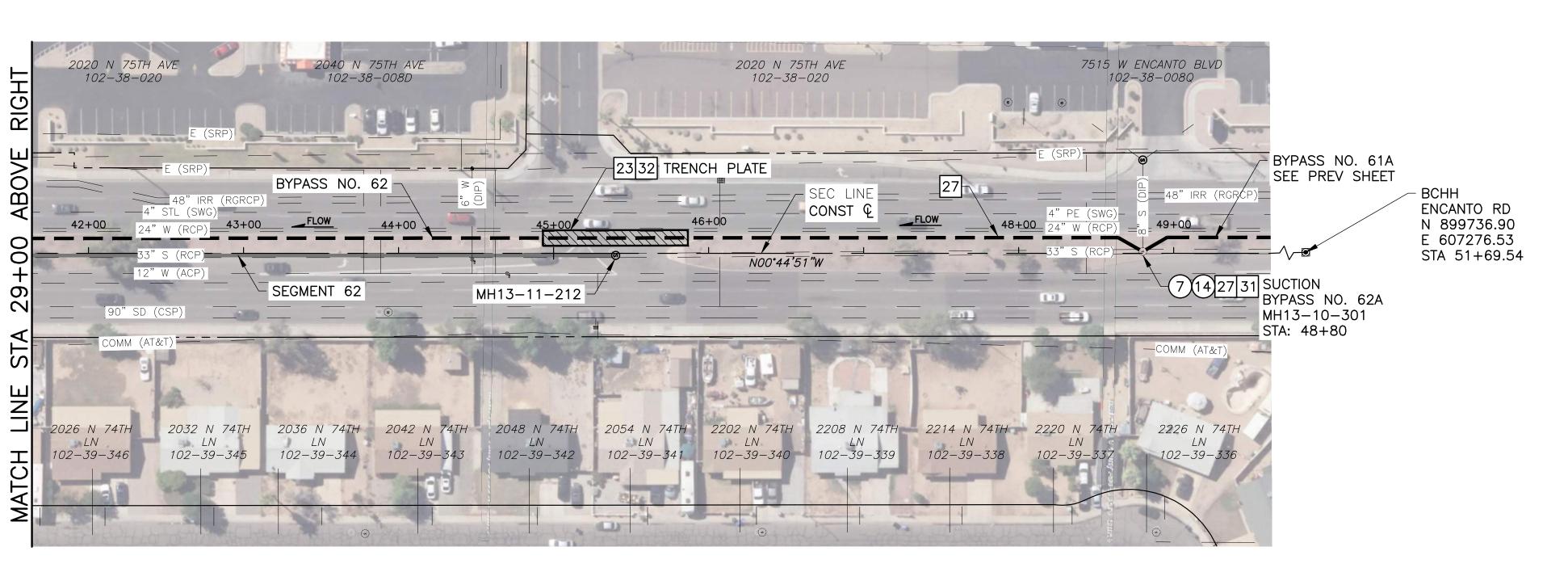
WATER SERVICES DEPARTMENT

CONCEPTUAL BYPASS PLAN NO. 62

DR: FW	DES: KAD	CK: MJ		SHEET	
DATE:01/2024	DATE:01/2024	DATE: 01/20	024	NO:	SHEETS
SCALE: 1"=100'			18	20	

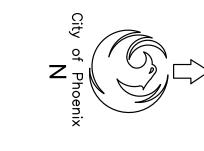


N 75TH AVE



N 75TH AVE

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MATERIALS





	F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
V [	9	ARIZ.	WS90500272	19	20	

# DIBBLE

DET B, SHT 12

DES: KAD

	REMOVAL NOTES	
19	REMOVE & REPLACE CONCRETE SINGLE CURB RAMP TO NEAREST JOINT COP STD DET P1240-1	160 SF
21	REMOVE & REPLACE CONCRETE SIDEWALK MAG STD DET 230	550 SF
24	REMOVE & REPLACE PAVEMENT COP STD DET P1200, TYPE B	314 SY
26	REMOVE & REPLACE CONCRETE SINGLE CURB MAG STD DET 220-1, TYPE A	230 LF
27	RESTORE LANDSCAPING	1 EA
31	REMOVE MANHOLE CONE FOR BYPASS & REPLACE CONE	1 EA

CK: MJL

DATE: 01/2024

32	CRACK SEAL & MICRO SEAL ASPHALT	4176	S
	PER COP PAVEMENT CUT POLICY		

CONSTRUCTION NOTES

_			
6	EPOXY COAT MANHOLE CHANNEL, THROAT, BENCH, WALL, CONE & CHIMNEY MH REHAB SUMMARY, SHT 11 TECHNICAL SPECIFICATION 09710.	2	EA
7	EPOXY COAT MANHOLE CHANNEL & BENCH TECHNICAL SPECIFICATION 09710.	2	EA
8	EPOXY COAT MANHOLE CHIMNEY TECHNICAL SPECIFICATION 09710.	1	ΕA
9	REPAIR MANHOLE PER TECHNICAL SPECIFICATION 09710. REFER TO TABLE 1, SHT 11	1	EA
14)	REPLACE 30" MANHOLE FRAME, COVER & COLLAR COP STD DET P1424 MAG STD DET 423-2 MAG STD DET 422	5	EA

#### REFERENCE NOTES

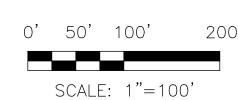
 $\langle 8 \rangle$  SRP IRRIGATION CROSSING

(15) TEMPORARY PIPE PLUG

1. REFER TO SPECIFICATION SECTION 02145 FOR SEWER FLOWS. 2. UTILITIES ARE MAPPED USING CITY GIS -

CONTRACTOR SHALL EXERCISE EXTREME CARE EXCAVATING CROSSING UTILITIES TO AVOID DAMAGE.

3. REFER TO SPECIFICATION SECTION 02100 FOR PLATING AND BRIDGING REQUIREMENTS.





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PVC LINED CONCRETE SANITARY SEWER REHABILITATION

CITY OF PHOENIX, ARIZONA

# WATER SERVICES DEPARTMENT

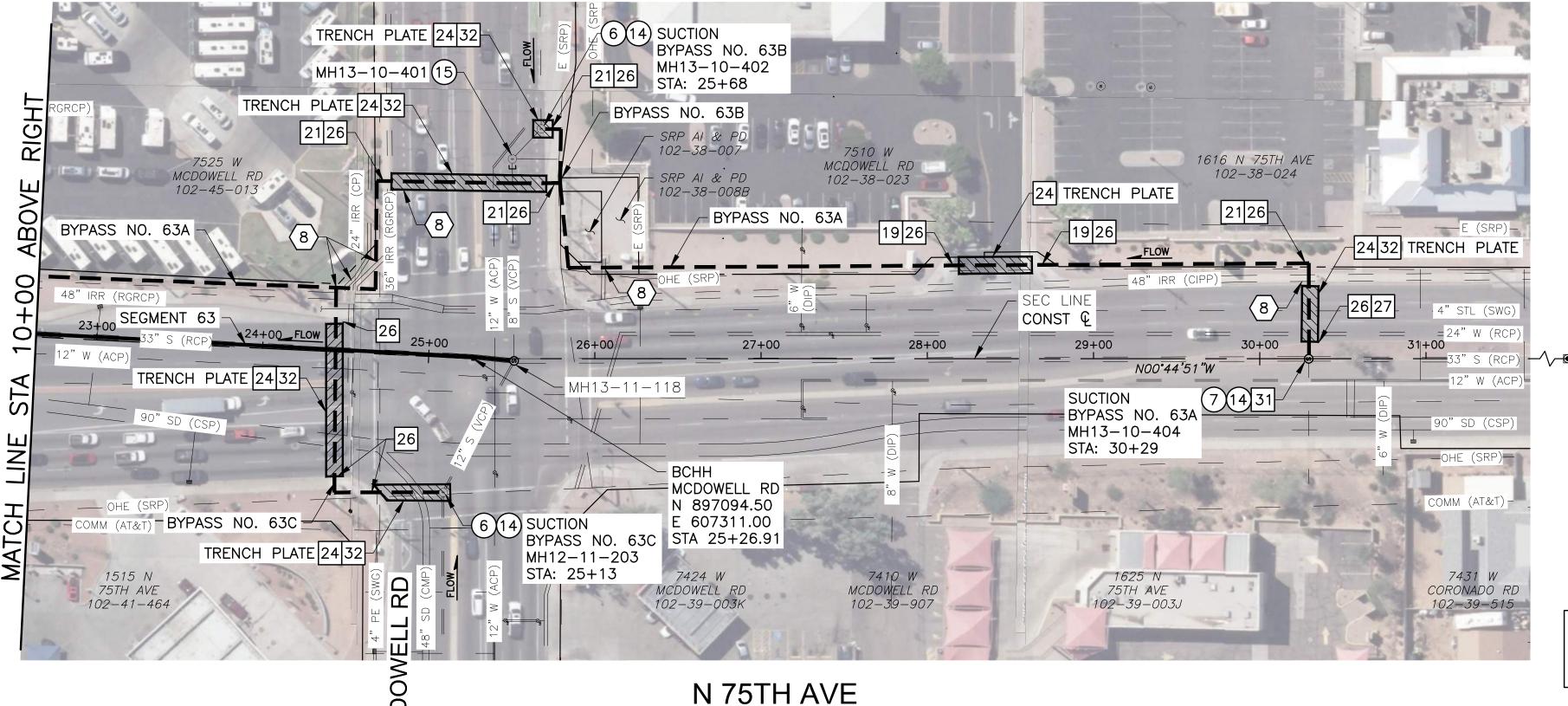
CONCEPTUAL BYPASS PLAN

NO. 63A, 63B, 63C & 63D

DR: FW DES: KAD CK: MJL SHEET TOTAL DATE:01/2024 DATE:01/2024 NO: SHEETS SCALE: 1"=100' 19

SEGMENT 63 1515 N 75TH AVE

102-41-464



ENCANTO RD N 899736.90 E 607276.53 STA 51+69.54

CONCEPTUAL ONLY

CONTRACTOR SHALL SUBMIT BYPASS PLANS IN ACCORDANCE WITH TECHNICAL SPECIFICATION SECTION 02145 PRIOR TO CONSTRUCTION

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MATERIALS



 F.H.W.A. REGION
 STATE
 PROJ. NO.
 NO.
 TOTAL
 AS BUILT

 9
 ARIZ.
 WS90500272
 20
 20

## DIBBLE

R: FW DES: KAD CK: MJL DATE: 01/2024

REMOVAL NOTES

- 30 ADOT CHANNEL ACCESS ROAD RESTORATION
- 31 REMOVE MANHOLE CONE FOR BYPASS & 1 EA REPLACE CONE DET B, SHT 12

CONSTRUCTION NOTES

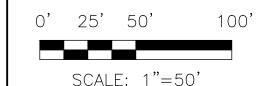
- 6 EPOXY COAT MANHOLE CHANNEL, 2 EA THROAT, BENCH, WALL, CONE & CHIMNEY MH REHAB SUMMARY, SHT 11 TECHNICAL SPECIFICATION 09710.
- REPLACE 30" MANHOLE FRAME, 2 EA COVER & COLLAR COP STD DET P1424 MAG STD DET 423-2 MAG STD DET 422
- 19 TEMPORARY FLOW THROUGH PLUG
  - REFERENCE NOTES
- 7 COORDINATE ENTRY W/ADOT ENCROACHMENT PERMIT REQUIRED

NOTE

- 1. REFER TO SPECIFICATION SECTION 02145 FOR SEWER FLOWS.
- 2. UTILITIES ARE MAPPED USING CITY GIS CONTRACTOR SHALL EXERCISE EXTREME CARE EXCAVATING CROSSING UTILITIES TO AVOID DAMAGE.
- 3. REFER TO SPECIFICATION SECTION 02100 FOR PLATING AND BRIDGING REQUIREMENTS.

CONCEPTUAL ONLY

CONTRACTOR SHALL SUBMIT BYPASS PLANS IN ACCORDANCE WITH TECHNICAL SPECIFICATION SECTION 02145 PRIOR TO CONSTRUCTION





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PVC LINED CONCRETE SANITARY SEWER REHABILITATION

CITY OF PHOENIX, ARIZONA WATER SERVICES DEPARTMENT

CONCEPTUAL BYPASS PLAN NO. 64

 DR: FW
 DES: KAD
 CK: MJL
 SHEET
 TOTAL SHEETS

 DATE:01/2024
 DATE:01/2024
 DATE:01/2024
 NO: SHEETS

 SCALE: 1"=80'
 20
 20

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MATERIALS