WATER SERVICES DIRECTOR

TROY HAYES, P.E.

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

DRAWING INDEX

SHT_NO.	DWG NO.	TITLE										
		GENERAL DRAWINGS										
1 2 3 4 5	G Ø1 G Ø2 G Ø3 G Ø4 G Ø5	COVER SHEET/SHEET INDEX SURVEY CONTROL & SHEET KEYMAP LEGEND, SYMBOLS, ABBREVIATIONS, & UTILITY LOCATING TABLE GENERAL NOTES UTILITY LOCATING TABLE										
6 7 8 9	CD 01 CD 02 CD 03 CD 04	CIVIL DETAILS CIVIL DETAILS I CIVIL DETAILS II CIVIL DETAILS III CONCRETE PAVEMENT JOINT STAKING PLAN										
10 11 12 13 14 15	C Ø1 C Ø2 C Ø3 C Ø4 C Ø5 C Ø6 C Ø7	CIVIL DRAWINGS 51ST AVENUE — 12" WATER MAIN II 51ST AVENUE — 12" WATER MAIN III 51ST AVENUE — 12" WATER MAIN III 51ST AVENUE — 12" WATER MAIN IV TONOPAH DRIVE — 12" WATER MAIN II TONOPAH DRIVE — 12" WATER MAIN II TONOPAH DRIVE — 12" WATER MAIN III										

AS-BUILT CERTIFICATION

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

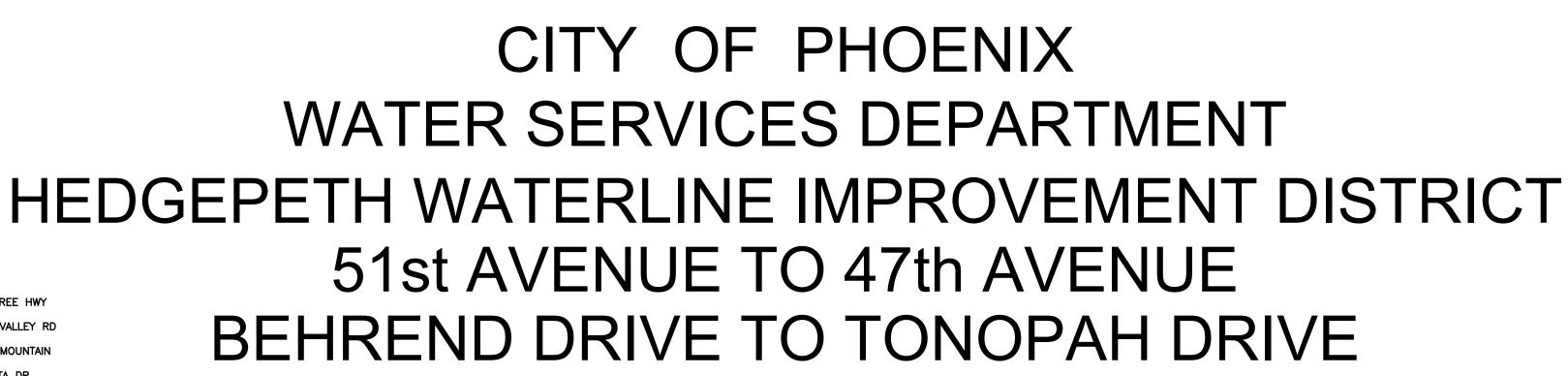
REGISTERED ENGINEER REGISTRATION NUMBER



NO. TOTAL AS BUILT



WSPR# WS85503001-QS# 40-17 & 41-17 "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



WS85503001-2 VOLUME 3 OF 3



100% DESIGN 2023 REBID

THIS PROJECT

43 / 35 / 27 / 19 / 7 / 7 / 7 / 7 / 7 / 7 / 4 / 40 / 56 / 56 / VICINITY MAP

CHANDLER BLVD

JOY RANCH RD

DEER VALLEY DR

CACTUS RD

DOUBLETREE

SOUTHERN AVE

GUADALUPE RD

CHANDLER BLVD

ELLIOT RD WARNER RD

08/14/2023 PHOENIX CITY ENGINEER DATE 08/08/2023 PHOENIX WATER SERVICES DEPARTMENT DATE ARIZONA DEPARTMENT OF TRANSPORTATION DATE 08-03-2023 DWR-23-00488 MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPT. DATE MARICOPA COUNTY FLOOD CONTROL DISTRICT DATE

<u>CITY OF GLENDALE APPROVAL</u>

DOVE VALLEY RD

THIS

LOWER BUCKEYE RD

APPROVED

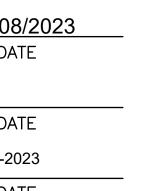
APPROVED

APPROVED

PROJECT

THE CITY OF GLENDALE ACCEPTS THESE PLANS FOR CONSTRUCTION, AS BEING IN GENERAL COMPLIANCE WITH PLAN PREPARATION REQUIREMENTS OF THE CITY. RESPONSIBILITY FOR THE COMPLETENESS AND ACCURACY OF THE PLANS AND RELATED DESIGNS RESIDE WITH THE ENGINEER AND THE ENGINEERING FIRM OF RECORD.

DATE CITY ENGINEER



PROJECT LOCATION

SE 1/4, SEC 20, T4N, R2E SW 1/4, SEC 21, T4N, R2E NW 1/4, SEC 28, T4N, R2E NE 1/4, SEC 29, T4N, R2E COP QS# 40-17 & 41-17

(20) ROSE GARDEN I

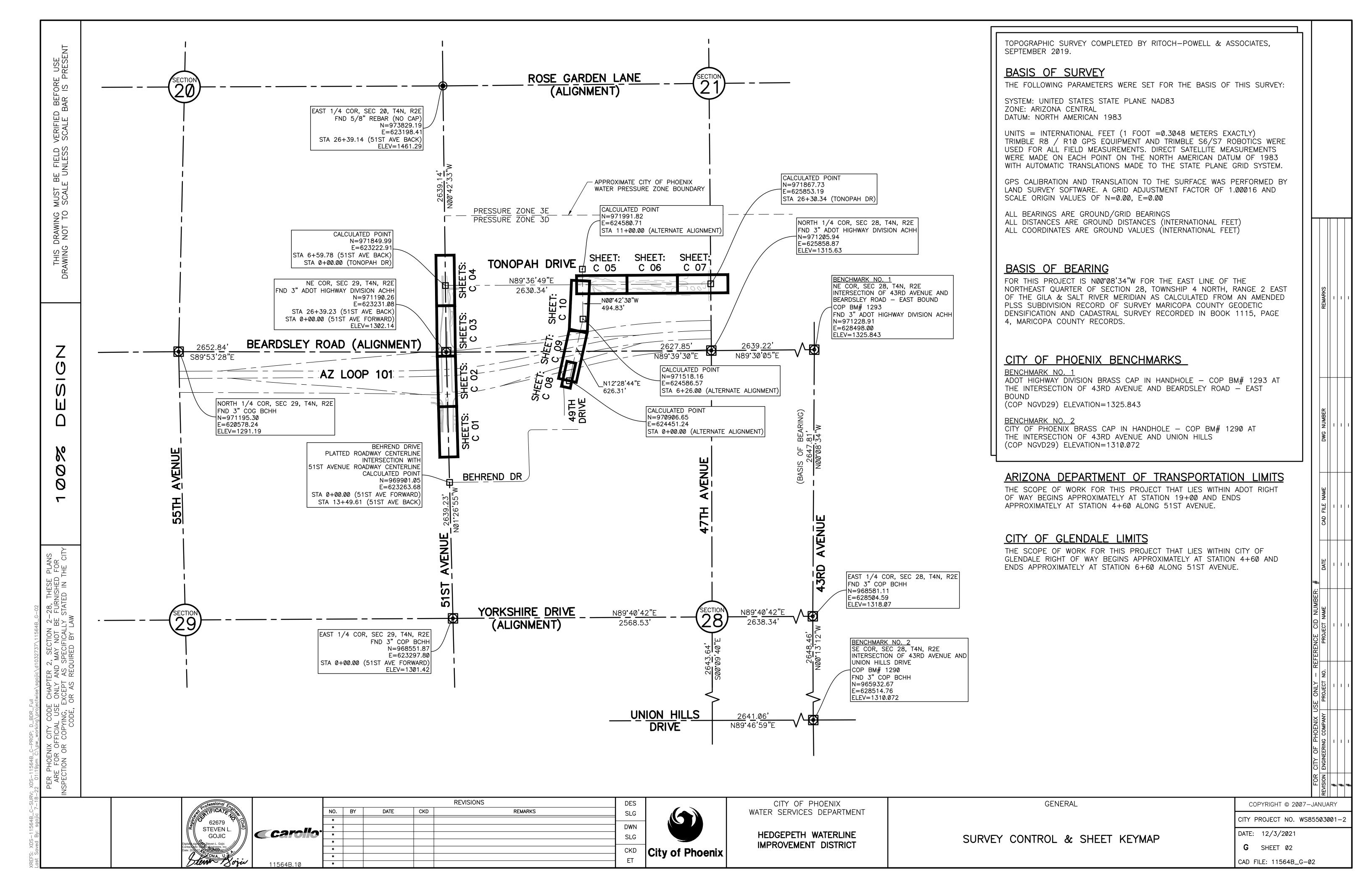
BEARDSLEY RD

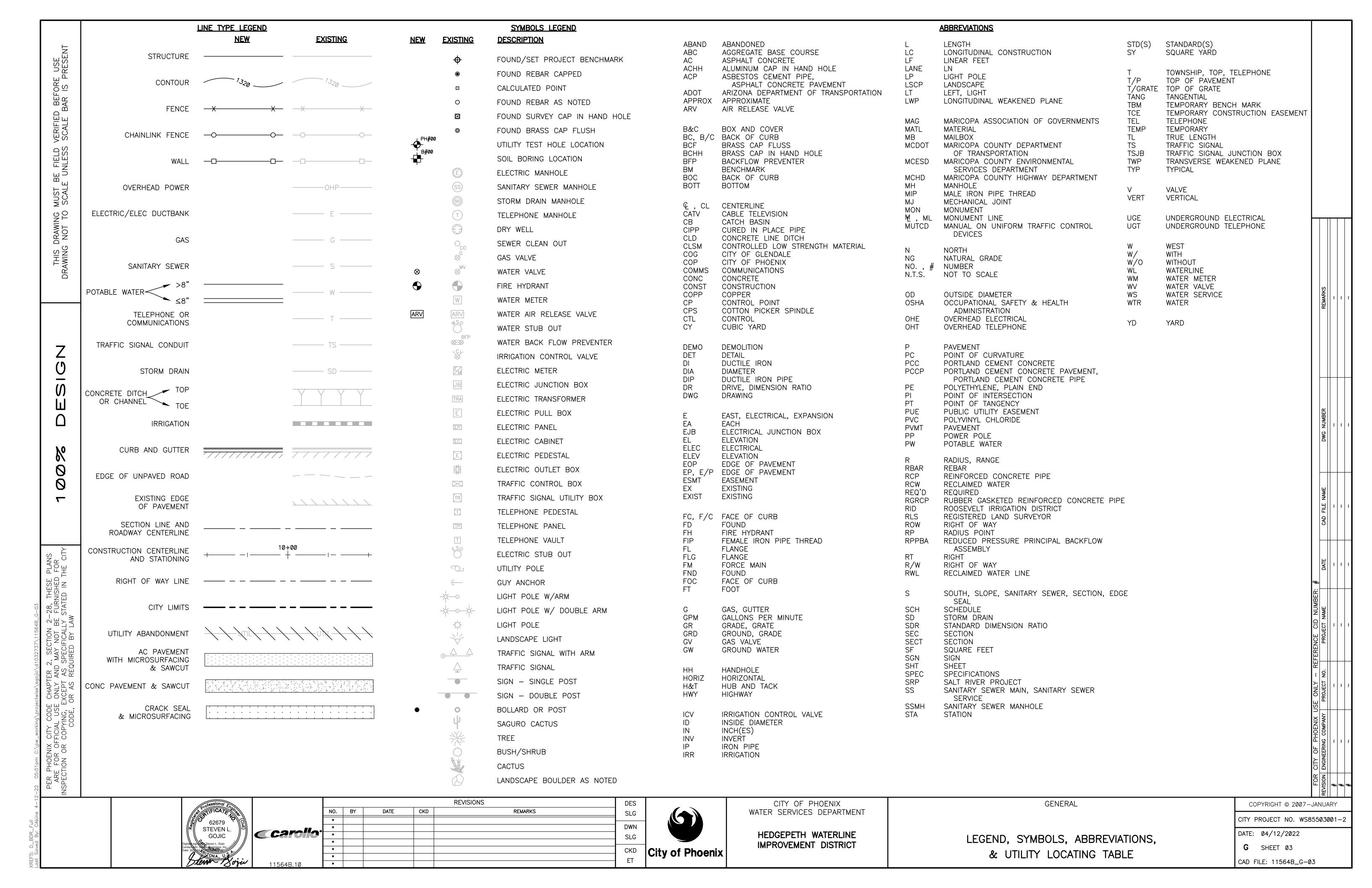
AZ LOOP 101

(29) YORKSHIRE DR

COP INSPECTION STAMP

CITY PROJECT MANAGER CITY INSPECTOR _____ CONTRACTOR DATE OF FINAL COMPLETION MANUFACTURE/TYPE OF VALVES _____ TYPE OF PIPE INSTALLED .





CITY OF PHOENIX WATER SERVICES DEPT. WATER PLAN GENERAL NOTES

- 1. CITY OF PHOENIX INSPECTION STAFF SHALL BE NOTIFIED 48 HOURS BEFORE ANY CONSTRUCTION BEGINS, TELEPHONE (602) 262-6251.
- 2. CONTRACTOR MUST OBTAIN PERMITS FROM THE ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT), CITY OF GLENDALE, AND CITY OF PHOENIX PRIOR TO START OF CONSTRUCTION. AN ENCROACHMENT PERMIT SHALL BE ISSUED BY ADOT, RIGHT OF WAY PERMIT ISSUED BY THE CITY OF GLENDALE, AND PERMIT FOR INSPECTION OF WATER MAIN TO BE ISSUED BY CITY OF PHOENIX WATER SERVICES DEPARTMENT.
- 3. DISTRIBUTION WATER MAIN SHUTDOWN FOR SHUTDOWNS NECESSARY TO ACCOMPLISH APPROVED WORK, THE CONTRACTOR SHALL CONTACT THE PROJECT INSPECTOR EARLY IN THE PROJECT TO COORDINATE A SHUTDOWN WITH THE WATER SERVICES DEPARTMENT, FIELD DISTRIBUTION & COLLECTIONS STAFF. THE CONTRACTOR SHALL HAVE ALL MATERIALS AND EQUIPMENT ON THE PROJECT SITE TO COMPLETE THE CONNECTION(S) PRIOR TO THE SHUTDOWN.

ONCE THE EXISTING WATER PIPE IS CUT, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP THE PIPE CLEAN AND FREE OF DIRT AND DEBRIS BY CAPPING THE ENDS UNTIL THE FINAL CONNECTIONS CAN BE COMPLETED. PRIOR TO THE FINAL CONNECTIONS, THE EXISTING PIPE SHALL BE SWABBED WITH A MINIMUM 50 PPM CHLORINE SOLUTION FOR A DISTANCE OF 10 FEET FROM THE OPENING.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE ACCESSIBILITY TO THE VALVE OPERATING NUT FOR ALL VALVES, WITHIN THE SHUTDOWN BOUNDARIES. FAILURE TO MAINTAIN ACCESSIBILITY TO VALVES SHALL BE CAUSE FOR CANCELING THE SHUTDOWN AND THE CONTRACTOR MUST PROPERLY REQUEST A SCHEDULE PEVISION.

THE WATER SERVICES DEPARTMENT IS INDEMNIFIED FOR ANY AND ALL RESULTANT COSTS INCURRED BY THE CONTRACTOR SUCH AS, BUT NOT LIMITED TO TRAFFIC CONTROL, DELAYS, LOSS OF INCENTIVES, STANDBY AND PENALTIES IF THE CONTRACTOR DID NOT PROPERLY REQUEST A SHUTDOWN; OR FAILED TO MAINTAIN ACCESSIBILITY TO VALVES; OR ON THE SCHEDULED DATE WORK HAD NOT PROGRESSED TO THE POINT AT WHICH THE SHUTDOWN WAS NEEDED.

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY GENERAL NOTES

- 1. ALL CONSTRUCTION WITHIN FLOOD CONTROL DISTRICT (DISTRICT) RIGHTS—OF—WAY JURISDICTION SHALL CONFORM TO THE LATEST DISTRICT STANDARDS AND SPECIFICATIONS AS PUBLISHED ON THE DISTRICT'S WEB SITE.
- 2. CONTRACTOR MUST OBTAIN NECESSARY DISTRICT PERMIT PRIOR TO COMMENCEMENT OF CONSTRUCTION WITHIN DISTRICT RIGHT—OF—WAY AND MAINTAIN A COPY OF THE PERMIT ON THE PROJECT SITE AT ALL TIMES.
- 3. NOTIFY THE DISTRICT'S PERMITS INSPECTOR AT 602-525-7913 OR IF WORKING AT A DISTRICT DAM CALL 602-506-4722 AT LEAST 48 HRS PRIOR TO ANY WORK BEING PERFORMED IN THE DISTRICT'S RIGHTS-OF-WAY.
- 4. CONTRACTOR PERFORMING EXCAVATION OPERATIONS IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES.
- 5. ANY DAMAGE TO DISTRICT'S STRUCTURES, EQUIPMENT, MATERIALS, VEGETATION, AND/OR PROPERTY SHALL BE REPLACED AND/OR REPAIRED IN—KIND TO THE SATISFACTION OF THE DISTRICT.
- 6. IN THE EVENT THE TERMS AND CONDITIONS IN THE DISTRICT'S PERMIT ARE NOT CONSISTENT WITH THE DISTRICT—APPROVED PLANS, THE DISTRICT'S PERMIT WILL HAVE PRIORITY.
- 7. IN ORDER TO CLOSE THE DISTRICT'S PERMIT AND RELEASE BONDS, THE WORK ON THE PROJECT SITE WILL HAVE TO BE COMPLETE AS DETERMINED BY THE DISTRICT'S INSPECTOR, CERTIFIED AS-BUILT PLANS ALONG WITH REQUIRED QUALITY ASSURANCE TESTS WILL HAVE TO BE PROVIDED AND ACCEPTED BY THE DISTRICT, AND ALL EASEMENTS REQUIRED BY THE PROJECT RECORDED.

CITY OF PHOENIX PLANNING AND DEVELOPMENT DEPT. WATER PLAN GENERAL NOTES

- 1. ALL WATER VALVE BOXES SHALL BE PER CITY OF PHOENIX SUPPLEMENT TO M.A.G. SPECIFICATIONS AND DETAILS P1391, TYPE A ONLY.
- 2. 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.
- 3. ALL DUCTILE IRON PIPE WATER MAIN VALVES, FITTINGS, AND BENDS SHALL BE RESTRAINED. RESTRAINED JOINT REQUIREMENTS AND APPROVED RESTRAINING SYSTEM ARE SHOWN IN CITY OF PHOENIX SUPPLEMENT TO M.A.G. SPECIFICATIONS, SECTION 750.3. THE LENGTH OF THE RESTRAINTS MUST BE PER M.A.G. STANDARD DETAIL 303-1 AND 303-2. THRUST BLOCKS ARE NOT ALLOWED TO BE USED IN LIEU OF APPROVED RESTRAINED JOINT SYSTEMS. THRUST BLOCKS CAN BE USED IN ADDITION TO THE APPROVED RESTRAINED JOINT SYSTEMS WHERE A SPECIFIC CITY OF PHOENIX SUPPLEMENT TO M.A.G. STANDARD DETAIL CALLS OUT FOR THRUST BLOCKING, SUCH AS CURRENT DETAILS, P1343, P1351, AND P1360 OR WHEN OTHERWISE APPROVED BY THE WATER SERVICES DEPARTMENT.
- 4. THE FOLLOWING M.A.G. DETAILS ARE SPECIFICALLY NOT APPROVED:

2-1 JOINT RESTRAINT WITH TIE RODS

2-2 JOINT RESTRAINT WITH TIE RODS - ANCHOR BLOCKS
1 STANDARD WATER METER VAULT

321 STANDARD WATER METER VAULT 345-1 3", 4", AND 6" WATER METER

345-2 4" AND 6" WATER METER WITH ON-SITE FIRE HYDRANTS

370 VERTICAL REALIGNMENT OF WATER MAINS 381 ANCHOR BLOCKS FOR VERTICAL BENDS

390 CURB STOP WITH FLUSHING PIPE 391-1 VALVE BOX INSTALLATION

- 5. COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601 & CITY OF PHOENIX SUPPLEMENTS.
- 6. NEW WATER LINES ARE TO BE BUILT IN ACCORDANCE WITH THE CITY OF PHOENIX "STANDARD UTILITY LOCATIONS".
- 7. 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 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.
- 8. PIPE DEFLECTION SHALL BE PER MANUFACTURERS' RECOMMENDATIONS.
- 9. ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE CURRENT CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL".
- 10. THE CONTRACTOR IS TO NOTIFY THE PUBLIC THAT WILL BE AFFECTED BY ANY SHUTDOWNS A MINIMUM OF 48 HOURS IN ADVANCE.
- 11. 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 UTILITY.
- 12. 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.
- 13. 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 M.A.G. STANDARD DETAIL 404 FOR ADDITIONAL INFORMATION AND/OR PROVISIONS FOR CLEARANCE.
- 14. 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.
- 15. ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- 16. WATER SERVICES SHALL BE INSTALLED PERPENDICULAR TO THE WATER MAIN. WATER SERVICES AT THE END OF CUL—DE—SACS MAY VARY AS NECESSARY, BUT WILL BE APPROVED ON A CASE BY CASE BASIS.
- 17. ALL SERVICES SHALL RUN IN A STRAIGHT LINE FROM THE WATER MAIN TO THE METER BOX.
- 18. NEITHER WATER SERVICE METER BOX NOR ANY PORTION OF A WATER SERVICE SHALL BE INSTALLED UNDER AN EXISTING OR PROPOSED DRIVEWAY OR SIDEWALK
- 19. CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION.
- 20. RECORD DRAWING SUBMITTALS MUST COMPLY PER THE WATER SERVICES
 DEPARTMENT ENGINEERING POLICY P-68 AND P-85. A COPY OF THE POLICY CAN
 BE OBTAINED IN THE DEPARTMENT'S WEBSITE:
 HTTP://PHOENIX.GOV/WATERSERVICES/DESIGN/ENGPOLICIES/INDEX.HTML
- 21. IN ACCORDANCE WITH AAC R-18-4-213, ALL MATERIALS ADDED AFTER JANUARY 1, 1993 WHICH MAY COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARDS 60 AND 61.
- 22. IN ACCORDANCE WITH TRT 00164 AND ORDINANCE G-6308, IF A PAVEMENT CUT OF ANY SIZE IS MADE TO A STREET OTHER THAN A NEW STREET, THE PERMITTEE MUST APPLY A SLURRY SEAL PAVEMENT TREATMENT TO THE HALF WIDTH OF AN ARTERIAL OR COLLECTOR STREET, OR THE FULL WIDTH OF A LOCAL STREET. THE TREATMENT MUST EXTEND A MINIMUM OF 25 FEET IN BOTH DIRECTIONS FROM THE PAVEMENT CUT(S). FOR PURPOSES OF THIS SECTION, THE PERMITTEE MUST APPLY TYPE IV SLURRY SEAL TO AN ARTERIAL OR COLLECTOR STREET, OR TYPE III SLURRY SEAL TO A LOCAL STREET.

REMARKS

ENGINEER'S WATER PLAN GENERAL NOTES

- 1. THE FOLLOWING NOTES ARE GENERAL AND APPLY TO ALL SHEETS OF THESE CONTRACT DOCUMENTS AS IF THEY WERE WRITTEN IN THEIR ENTIRETY ON EACH SHEFT
- 2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS INCLUDING LOCATION AND DIMENSIONS OF ALL EXISTING CONSTRUCTION AND UTILITIES. CONTRACTOR SHALL NOTIFY ENGINEER IF THERE IS A CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONSTRUCTION BEFORE PROCEEDING WITH WORK.
- 3. UNLESS DETAILED, SPECIFIED, OR OTHERWISE INDICATED ON THE DRAWINGS, CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE TYPICAL DETAILS AND GENERAL NOTES. TYPICAL DETAILS SHALL APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS ON DRAWINGS.
- 4. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF WORK. DETAILS SHALL BE IN THE SAME AS FOR OTHER SIMILAR WORK.
- 5. CONTRACTOR SHALL COMPLY WITH LOCAL CONSTRUCTION STORM WATER DISCHARGE REGULATIONS AND REQUIREMENTS.
- 6. ALL PIPELINES 12" AND LARGER SHALL HAVE A MINIMUM COVER OF 48" UNLESS THE COVER DEPTH IS SPECIFICALLY INDICATED ON THE DRAWINGS. PIPE SMALLER THAN 12" SHALL HAVE A MINIMUM COVER OF 36" UNLESS NOTED OTHERWISE. PIPES SHALL BE ROUTED AS SHOWN UNLESS MINOR REVISIONS ARE NECESSARY TO MISS EXISTING PIPES, STRUCTURES, ETC. CONTRACTOR SHALL CLEARLY NOTE ANY MINOR REVISIONS FROM THE DRAWINGS ON AS-BUILT RECORDS. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL FITTINGS AND ADAPTERS REQUIRED TO MAKE THE ROUTING CHANGES AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL INCLUDE COST FOR THIS IN THE BID.
- 7. EXISTING FACILITY AND UTILITY INFORMATION SHOWN ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS, ELECTRONIC FILES, OR POTHOLING. WHERE NO ELEVATIONS ARE SHOWN, NO INFORMATION WAS AVAILABLE DURING THE DESIGN PERIOD. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR FACILITIES AND UTILITIES NOT SHOWN OR NOT IN THE LOCATION SHOWN. THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, SIZES, MATERIAL TYPES, AND ELEVATIONS SHOWN AROUND OR NEAR AREAS OF NEW CONSTRUCTION PRIOR TO START OF CONSTRUCTION.
- 8. SOME UTILITY SERVICES MAY NOT BE SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO LOCATE AND PROTECT SERVICE DURING CONSTRUCTION.
- 9. EXISTING UTILITIES IN THE PROJECT MAY BE IN A FRAGILE CONDITION. THE CONTRACTOR SHALL EXERCISE NECESSARY CAUTION WHEN WORKING NEAR EXISTING UTILITIES.
- 10. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT FROM DAMAGE EXISTING FACILITIES AND UTILITIES SHOWN OR NOT SHOWN THAT ARE TO REMAIN IN PLACE. ALL FACILITIES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED TO THE ORIGINAL OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.
- 11. CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING PIPE, EQUIPMENT, ETC. AS REQUIRED AND SHALL PROVIDE ALL FITTINGS, ADAPTERS, AND APPURTENANCES REQUIRED TO MAKE THE CONNECTIONS. PROVIDE ALL SUPPORTS REQUIRED FOR A RIGIDLY SUPPORTED COMPLETE AND WORKING SYSTEM.
- 12. ADJUST ALL VALVE BOXES, VAULTS, PULL BOXES, AND MANHOLES TO FINISHED GRADE UNLESS OTHER—WISE SHOWN OR DIRECTED.
- 13. THE CONTRACTOR SHALL CONTACT ARIZONA 811 (FORMERLY BLUE STAKE) AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION TO LOCATE AND MARK EXISTING UTILITIES.
- 14. ARIZONA 811 PHONE NUMBERS:
 - 1-602-263-1100 (IF CALLING FROM WITHIN ARIZONA)
 1-800-782-5348 (IF CALLING FROM OUTSIDE ARIZONA)
- 15. CONTRACTOR SHALL VERIFY THAT PIPING SHOWN AS PREVIOUSLY ABANDONED ARE NO LONGER IN SERVICE AND COORDINATE WITH THE UTILITY OWNER BEFORE CUTTING OR REMOVING.
- 16. PROVIDE ALL SHEETING/SHORING REQUIRED TO PROTECT EXISTING STRUCTURES, PIPES AND FACILITIES.
- 17. CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 6 FEET HORIZONTAL AND 3 FEET VERTICAL BETWEEN EXISTING SEWER, STORM DRAIN, OR IRRIGATION LINES AND THE PROPOSED WATER LINES.
- 18. REFER TO THE GEOTECHNICAL REPORT LOCATED IN THE APPENDIX OF THE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON THE GEOTECHNICAL CONDITIONS AND BORING INFORMATION.
- 19. IN ALL LOCATIONS WHERE TRENCH PLATE IS USED FOR VEHICULAR OR PEDESTRIAN TRAFFIC, THE CONTRACTOR SHALL APPLY SKID RESISTANT COATING ON THE TRENCH PLATES AND COLD MIX ASPHALT CONCRETE AT THE EDGES. THE TRENCH PLATES SHALL BE NOTCHED INTO THE ASPHALT, CONCRETE, OR TRAVELED SURFACE TO PREVENT SLIPPAGE AND ROCKING UNDER TRAFFIC.
- 20. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES ADJACENT TO THE WORK, THROUGHOUT THE CONSTRUCTION PERIOD.
- 21. ALL OPEN TRENCHES, WORK AREAS AND SHAFTS SHALL HAVE A SHORING SYSTEM IN ACCORDANCE WITH OSHA, STATE AND LOCAL REQUIREMENTS.
- 22. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, COUNTY, AND LOCAL LAWS AND ORDINANCES RELATING TO THE SAFETY AND CHARACTER OF WORK, EQUIPMENT AND PERSONNEL. THIS INCLUDES BUT IS NOT LIMITED TO SHEETING, SHORING, BRACING, VENTILATION, CONFORMANCE WITH TRAFFIC CONTROL AND MAINTENANCE OF BARRICADES AND WARNING DEVICES.
- 23. CONTRACTOR SHALL TAKE ALL PRACTICAL PRECAUTIONS TO MINIMIZE DISTURBANCES TO STREAMS, VEGETATION, TREES AND CROP LANDS. WHEREVER PRACTICAL LEAVE EXISTING TREES AND VEGETATED AREAS UNDISTURBED.
- 24. ALL PIPES, FITTINGS, VALVES, FIRE HYDRANTS AND OTHER APPURTENANCES SHALL CONFORM TO CURRENT AWWA, ASTM, AND NSF STANDARDS. (PER ADEQ ENGINEERING BULLETIN 10, CHAP. 7, SECTION B).
- 25. ALL MATERIAL THAT COMES INTO CONTACT WITH WATER SHALL CONFORM TO ANSI/NSF STANDARD 61. (PER ARIZONA ADMINISTRATIVE CODE R18-4-213.B)

ADOT GENERAL NOTES

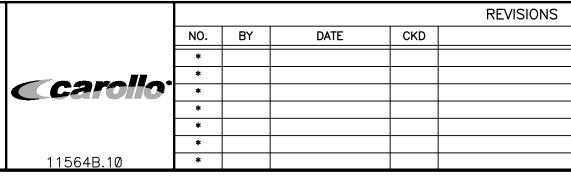
- ALL WORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH A.D.O.T. 2008 EDITION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND CURRENT EDITION OF THE CONSTRUCTION STANDARD DRAWINGS AND SIGNING & MARKING STANDARD DRAWINGS WITH CURRENT REVISIONS.
- 2. TRAFFIC SHALL BE PROTECTED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION WITH REVISIONS 1 & 2 DATED MAY 2012, THE ARIZONA SUPPLEMENTS TO THE MUTCD 2009 EDITION, AND THE A.D.O.T. TRAFFIC CONTROL GUIDELINES. ALL SIGNS, PLACEMENT OF SIGNS, THE NECESSITY OF FLAG PERSONS AND UNIFORMED OFFICERS ARE THE RESPONSIBILITY OF THE PERMITTEE.
- 3. THE CONTRACTOR SHALL STRIPE THE PROJECT ROADWAY IN ACCORDANCE WITH THE CURRENT EDITION OF THE SIGNING AND MARKING STANDARD DRAWINGS (M&S SFRIFS).
- 4. EXISTING UTILITY LOCATIONS ARE APPROXIMATE; THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND DEPTH OF ALL UNDERGROUND FACILITIES.
- 5. ALL RIGHT OF WAY MARKERS, DISTURBED, DESTROYED, OR REMOVED SHALL BE REPLACED BY A R.L.S. PER CONSTRUCTION STANDARD DRAWING C-21.10.
- 6. ALL WORK NOT IN CONFORMANCE WITH THESE PLANS AND A.D.O.T. SPECIFICATIONS SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE.
- 7. ALL DISTURBED AREA SHALL BE SEEDED PER A.D.O.T. SPECIFICATIONS.

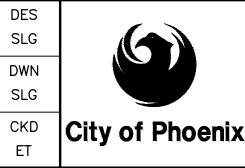
<u>CITY OF GLENDALE GENERAL NOTES</u>

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST MAG STANDARD DETAILS AND SPECIFICATIONS AND THE CITY'S CURRENT ENGINEERING DESIGN AND CONSTRUCTION STANDARDS.
- 2. THIS SET OF PLANS HAS BEEN REVIEWED FOR COMPLIANCE WITH CITY REQUIREMENTS PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS. HOWEVER, SUCH REVIEW AND ACCEPTANCE SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN SAID PLANS AND/OR CONSTRUCTION WHEN IN VIOLATION OF ANY LAWS, ORDINANCES, CODES OR STANDARDS THAT ARE IN EFFECT. REVIEW AND ACCEPTANCE OF PLANS DOES NOT RELEASE A DEVELOPER OR ENGINEER FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS ON SAID PLANS.
- 3. THE CITY DOES NOT WARRANT ANY QUANTITIES SHOWN ON THESE PLANS.
- 4. THE CITY PLANS ACCEPTANCE IS FOR GENERAL LAYOUT IN THE RIGHT-OF-WAY ONLY. THIS ACCEPTANCE IS VALID FOR A PERIOD OF SIX MONTHS. CONSTRUCTION PERMITS SHALL BE OBTAINED DURING THIS PERIOD OR THE PLANS SHALL BE RESUBMITTED FOR REVIEW.
- 5. A CITY ACCEPTED SET OF PLANS SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES.
- 6. THE CITY SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONSTRUCTION WORK. CONSTRUCTION WORK CONCEALED WITHOUT INSPECTION BY THE CITY SHALL BE SUBJECT TO EXPOSURE AT THE CONTRACTOR'S EXPENSE.
- 7. A RIGHT-OF-WAY CONSTRUCTION PERMIT IS REQUIRED FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY OR WITHIN A CITY EASEMENT. A 100% PERFORMANCE BOND OR EQUIVALENT FORM OF FINANCIAL SURETY MAY BE REQUIRED FOR ALL WORK WITHIN THE RIGHT-OF-WAY PRIOR TO THE ISSUANCE OF ANY RIGHT-OF-WAY CONSTRUCTION PERMIT(S). ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE INSPECTED AND APPROVED BY THE CITY'S ENGINEERING DIVISION.
- 8. IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL "AS-BUILT" PLANS AND ELECTRONIC (AUTOCAD) FILES HAVE BEEN SUBMITTED AND APPROVED BY THE CITY.
- 9. THE DEVELOPER IS RESPONSIBLE FOR ALL COSTS AND WORK RELATED TO THE REMOVAL, RELOCATION OR ABANDONMENT OF ALL OBSTRUCTIONS AND/OR UTILITIES WITHIN THE RIGHT-OF-WAY THAT CONFLICT WITH THE NEW IMPROVEMENTS.
- 10. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING OR DEDICATING ALL REQUIRED RIGHTS—OF—WAY AND EASEMENTS TO THE CITY PRIOR TO ISSUANCE OF THE BUILDING'S CERTIFICATE OF OCCUPANCY.
- 11. THE CONTRACTOR SHALL CONTACT ARIZONA 811 (602-263-1100) 48 HOURS PRIOR TO CONSTRUCTION.
- 12. THE CONTRACTOR SHALL BARRICADE CONSTRUCTION SITES AT ALL TIMES PER THE CITY OF PHOENIX TRAFFIC BARRICADE MANUAL. WHEN REQUIRED BY THE CITY, A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED FOR APPROVAL A MINIMUM OF 72 HOURS IN ADVANCE OF CONSTRUCTION.
- 13. THE CONTRACTOR MAY OBTAIN A FIRE HYDRANT METER FOR CONSTRUCTION WATER FROM THE CITY WATER SERVICES DEPARTMENT. THE UNLAWFUL REMOVAL OF WATER FROM A FIRE HYDRANT IS A VIOLATION OF THE MUNICIPAL CODE, PUNISHABLE BY FINE AND/OR IMPRISONMENT.
- 14. DAMAGE CAUSED BY THE DEVELOPER DURING CONSTRUCTION TO CITY INFRASTRUCTURE OR FACILITIES SHALL BE REPAIRED OR REPLACED BY THE DEVELOPER, AT HIS EXPENSE, IN A MANNER ACCEPTABLE TO THE CITY.
- 15. THERE SHALL BE NO DIRT RAMPS OVER SIDEWALKS DURING CONSTRUCTION.
- 16. AN AZPDES PERMIT IS REQUIRED FOR ALL CONSTRUCTION THAT DISTURBS LAND OVER ONE (1) ACRE IN SIZE. PRIOR TO START OF ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A NOTICE OF INTENT (NOI) TO THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) AND A COPY TO THE CITY OF GLENDALE AND HAVE A COPY OF THE SWPPP ON SITE AT ALL TIMES.

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CITY OF PHOENIX WATER SERVICES DEPARTMENT

HEDGEPETH WATERLINE IMPROVEMENT DISTRICT

GENERAL

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CITY PROJECT NO. WS85503001-2

DATE: 04/12/2022

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CAD FILE: 11564B_G-04

GENERAL NOTES

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POTHOLE #	UTILITY TYPE	OWNER	SURFACE ELEV	TOP DEPTH (FT)	TOP ELEV	BOTTOM DEPTH (FT)	BOTTOM ELEV	51ST AVE STATION	51ST AVE OFFSET	NORTHING	EASTING	MATERIAL	UTILITY WIDTH	COMMENTS
Ø1	12" WATER	PHOENIX	1302.21	4.53	1297.68	5.53	1296.68	18+97.96	24.67'RT	970439.85	623274.73	DIP	12"	12" METAL PIPE RUNNING N/S - MARKED AS WATER
Ø 2	ELEC	APS	1302.33	_	_	_	_	18+99.91	21.29'LT	970450.63	623228.49	_	_	DUG 9.44' DEEP 2' WIDE & DID NOT LOCATE UTILITY - COULD NOT GO DEEPER DUE TO HARD & ROCKY SOIL CONDITIONS. MARKED AS ELECTRIC
Ø 3	ELEC	APS	1302.85	9.11	1293.74	10.6	1292.25	21+52.77	25.27'LT	970703.31	623218.12	PVC	13"	(4) 5.5" PLASTIC CONDUIT PIPES LAID 13" WIDE RUNNING E/W — MARKED AS ELECTRIC — BOTTOM OF UTILITY IS APPARENT BOTTOM; ADDITIONAL MATERIAL AND/OR UTILITIES MAY EXIST BELOW APPARENT BOTTOM
04	ELEC	ADOT	1302.14	2.42	1299.72	2.71	1299.43	0+27.80	24.81' LT	971217.75	623205.93	PVC	3.5"	3.5" PLASTIC CONDUIT PIPE RUNNING E/W - MARKED AS ELECTRIC
Ø 5	COMMS	CENTURYLINK	1302.20	4.96	1297.24	_	_	0+53.11	24.64'LT	971243.06	623205.79	PVC	6.5"	3.5" & 2" PLASTIC CONDUIT PIPES LAID 6.5" WIDE RUNNING E/W — MARKED AS FMS COMMUNICATIONS — A THIRD PIPE BELOW — DUE TO SOIL CONDITIONS WAS UNABLE TO DETERMINE SIZE AND BOTTOM — BOTTOM OF UTILITY IS APPARENT BOTTOM; ADDITIONAL MATERIAL AND/OR UTILITIES MAY EXIST BELOW APPARENT BOTTOM
Ø 6	ELEC	APS	1302.14	1.69	1300.45	_	_	1+10.71	21.75'LT	971300.69	623207.96	CONC ENC	24"	EXPOSED 24" OF CONCRETE ENCASEMENT MARKED AS ELECTRIC — UNABLE TO EXPOSE NORTH EDGE OR THE BOTTOM DUE TO SIZE OF ENCASEMENT
Ø 7	COMMS	CENTURYLINK	1302.06	_	_	_	_	1+24.34	21.7'LT	971314.32	623207.84	_	1	NO CONFLICT PER USIC LOCATOR — SWEPT AREA WITH NO SIGNAL DETECTED
Ø8	ELEC	APS	1301.97	_	_	_	_	1+74.28	20.06'LT	971364.27	623208.86	_	_	NO CONFLICT - NO BLUE STAKE - SWEPT AREA WITH NO SIGNAL DETECTED
Ø 9	12" WATER	GLENDALE	1301.12	4.93	1296.19	5.93	1295.19	3+69.37	20.72'LT	971559.34	623205.79	DIP	12"	12" METAL PIPE RUNNING N/S - MARKED AS WATER
10	12" WATER	GLENDALE	1300.90	4.92	1295.98	5.92	1294.98	4+68.06	13.22' LT	971658.12	623212.06	DIP	12"	12" METAL PIPE RUNNING N/S - MARKED AS WATER
11	COMMS	COX	1300.83	_	_	_	_	4+95.75	16.98' RT	971686.18	623241.92	_	_	NO CONFLICT - PER BLUE STAKE - SWEPT ARE ELECTRONICALLY WITH NO SIGNAL DETECTED
12	12" WATER	GLENDALE	1300.50	3.06	1297.44	4.06	1296.44	6+11.99	18.34'RT	971802.43	623241.84	DIP	12"	12" WRAPPED METAL PIPE RUNNING E/W - MARKED AS WATER
13	ELEC	APS	1300.39	8.12	1292.27	8.54	1291.85	0+33.94	3.96'LT	971854.18	623256.83	PVC		2", 5", & 4" PLASTIC CONDUIT PIPES LAID 14" WIDE RUNNING N/S — MARKED AS ELECTRIC — BOTTOM OF UTILITY IS APPARENT BOTTOM; ADDITIONAL MATERIAL AND/OR UTILITIES MAY EXIST BELOW APPARENT BOTTOM
14	12" WATER	PHOENIX	1301.16	4.12	1297.04	5.12	1296.04	0+87.62	2.75'LT	971853.33	623310.52	DIP	12"	12" METAL PIPE RUNNING N/S - MARKED AS WATER

	◆ TONOPAH DRIVE UTILITY POTHOLE TABLE													
POTHOLE #	UTILITY TYPE	OWNER	SURFACE ELEV	TOP DEPTH (FT)	TOP ELEV	BOTTOM DEPTH (FT)		TONOPAH DRIVE STATION	TONOPAH DRIVE OFFSET	NORTHING	EASTING	MATERIAL	UTILITY WIDTH	COMMENTS
15	12" WATER	PHOENIX	1310.21	4.48	1305.73	5.48	1304.73	14+46.33	5.48' LT	971865.23	624669.17	DIP	12"	12" METAL PIPE RUNNING E/W — MARKED AS WATER
16	12" WATER	PHOENIX	1318.82	_	_	_	_	26+18.84	14.61'LT	971882.26	625841.59	_	_	DRY HOLE - DUG ON BLUE STAKE AND HIT CONCRETE AT 8.36' - UNABLE TO BREAK THROUGH - MARKED AS WATER
17	ELEC	APS	1318.41	6.43	1311.98	8.11	1310.30	26+27.30	11.85'LT	971879.56	625850.07	CONC ENC	36"	36" CONCRETE ENCASEMENT RUNNING N/S — MARKED AS ELECTRIC — SEE 17.1 AND 17.2 FOR ADDITIONAL UTILITIES FOUND IN HOLE — BOTTOM OF UTILITY IS APPARENT BOTTOM; ADDITIONAL MATERIAL AND/OR UTILITIES MAY EXIST BELOW APPARENT BOTTOM
17.1	UNKNOWN	UNKNOWN	1318.39	6.03	1312.36	6.11	1312.28	26+26.02	11.89'LT	971879.59	625848.80	PVC	1"	1" PLASTIC PIPE RUNNING N/S — UNKN UTILITY — FOUND WITH HOLE #17 BOTTOM OF UTILITY IS APPARENT BOTTOM; ADDITIONAL MATERIAL AND/OR UTILITIES MAY EXIST BELOW APPARENT BOTTOM
17.2	42" WATER	PHOENIX	1318.47	5.75	1312.72	9.25	1309.22	26+24.71	11.99'LT	971879.68	625847.48	CONC PIPE	42"	42" (PER RECORD) CONCRETE PIPE RUNNING N/S — MARKED AS WATER — COULD ONLY EXPOSE 26" — FOUND IN HOLE #17 — BOTTOM OF UTILITY IS APPARENT BOTTOM; ADDITIONAL MATERIAL AND/OR UTILITIES MAY EXIST BELOW APPARENT BOTTOM

NOTES:
1. UTILITY LOCATING PERFORMED BY CARDNO FOR THE CITY OF PHOENIX PROJECT # WS85503001-2. UTILITY LOCATING RESULTS DATA PROVIDED ON 05/05/2020.

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CITY OF PHOENIX WATER SERVICES DEPARTMENT

HEDGEPETH WATERLINE IMPROVEMENT DISTRICT

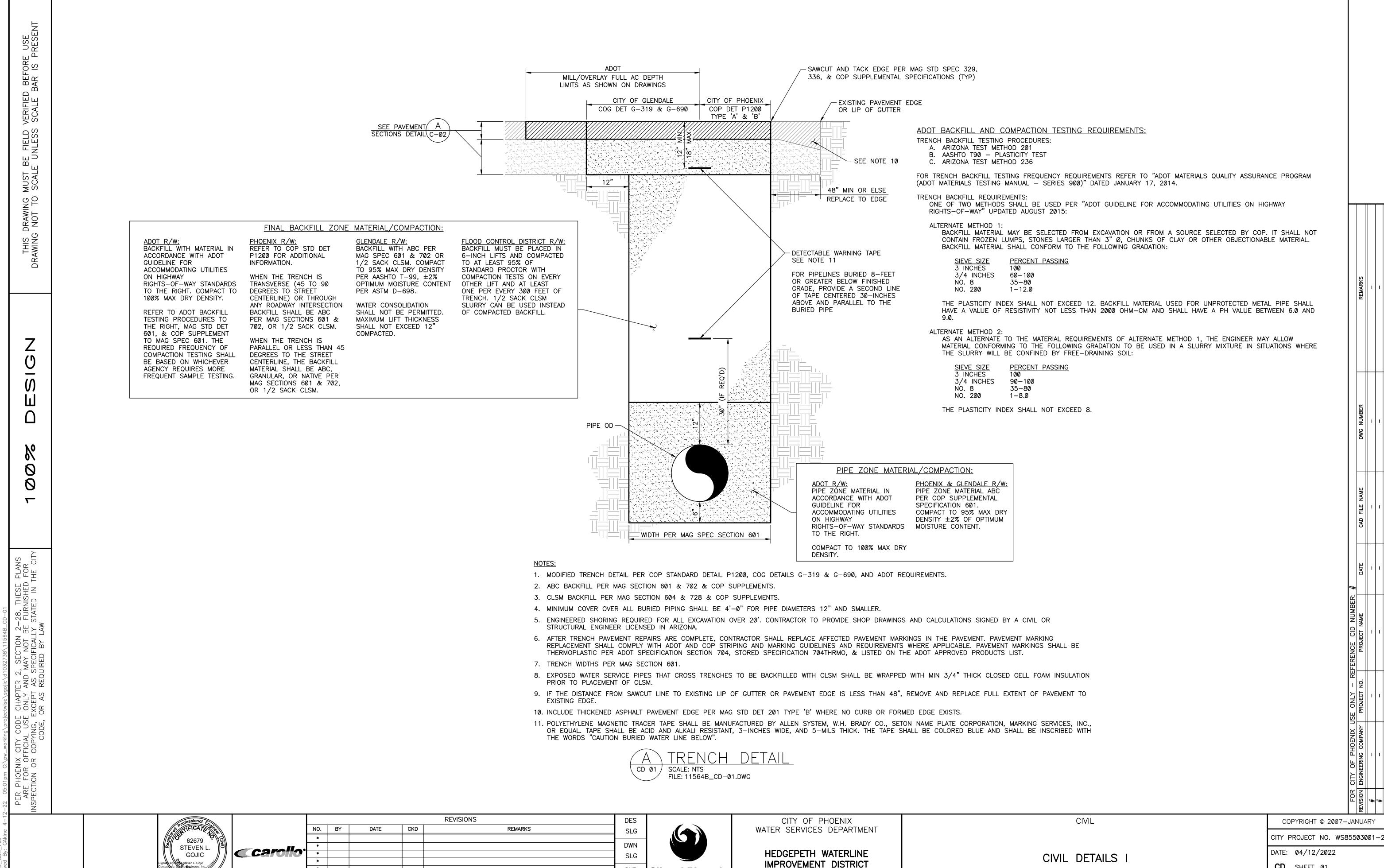
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UTILITY LOCATING TABLE

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City of Phoenix

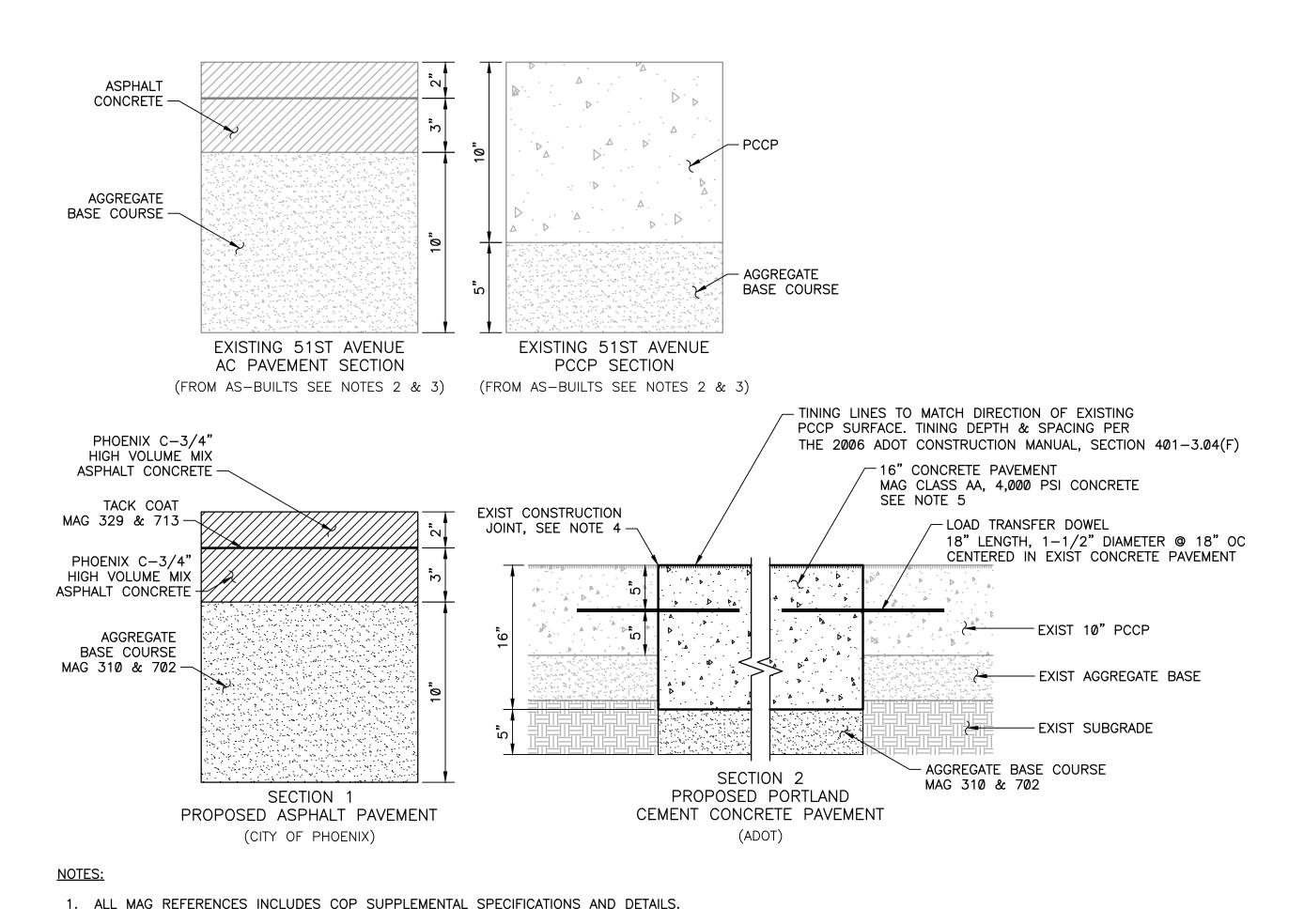
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2. PAVEMENT AND AGGREGATE BASE DEPTHS SHALL BE AS SHOWN OR MATCH EXISTING THICKNESSES, WHICHEVER IS GREATER. CONTRACTOR SHALL

3. THE EXISTING PAVEMENT SECTIONS SHOWN ABOVE IS BASED ON ADOT SR-101 EXPANSION CONSTRUCTION DRAWINGS (RBM-600-0-504). FIELD

4. ANY PCCP REMOVED WILL REQUIRE FULL REPLACEMENT OF THE SLAB TO THE NEAREST EXISTING CONSTRUCTION JOINTS. NEW PCCP SLAB SHALL

5. PORTLAND CEMENT CONCRETE PAVEMENT WILL CONFORM TO SECTION 401 OF THE "STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION HIGHWAYS

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DIVISION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", EXCEPT FOR PAYMENT PROVISION.

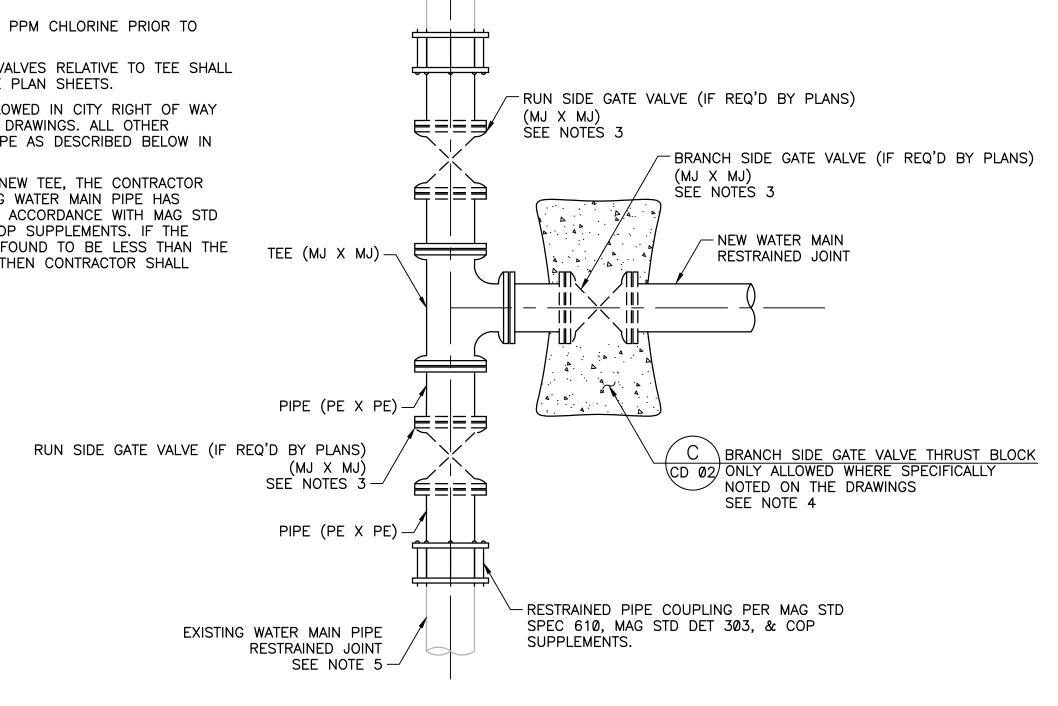
CD 02 / SCALE: NTS

ACCOUNT FOR VARYING PAVEMENT DEPTH IN BID ESTIMATES.

BE A MINIMUM OF 6" GREATER THAN THE EXISTING SLAB THICKNESS.

CONDITIONS MUST BE VERIFIED.

- 1. FITTINGS & PIPE SIZES AS SHOWN IN DRAWINGS. ALL NEW PIPE AND FITTINGS SHALL HAVE RESTRAINED JOINTS PER MAG STANDARD DETAIL 303-1, 303-2, & CITY OF PHOENIX SUPPLEMENTS TO MAG SPECIFICATION SECTION 750.3.
- 2. CLEAN AND DISINFECT BY SWABBING WITH 75 PPM CHLORINE PRIOR TO CONNECTION.
- 3. THE LOCATION AND QUANTITY OF NEW GATE VALVES RELATIVE TO TEE SHALL BE AS SHOWN ON THE PROPOSED WATERLINE PLAN SHEETS.
- 4. CONCRETE THRUST BLOCKS WILL NOT BE ALLOWED IN CITY RIGHT OF WAY EXCEPT WHERE SPECIFICALLY NOTED ON THE DRAWINGS. ALL OTHER CONNECTIONS MUST BE RESTRAINED JOINT PIPE AS DESCRIBED BELOW IN
- 5. WHEN NO THRUST BLOCK IS NOTED AT THE NEW TEE, THE CONTRACTOR MUST EXPOSE & CONFIRM THAT THE EXISTING WATER MAIN PIPE HAS MINIMUM RESTRAINED JOINT PIPE LENGTHS IN ACCORDANCE WITH MAG STD DET 303, MAG STD SPEC SECTION 610, & COP SUPPLEMENTS. IF THE EXISTING PIPE RESTRAINED JOINT LENGTH IS FOUND TO BE LESS THAN THE DISTANCES SPECIFIED IN MAG STD DET 303, THEN CONTRACTOR SHALL APPLY EXTERNAL JOINT RESTRAINTS.

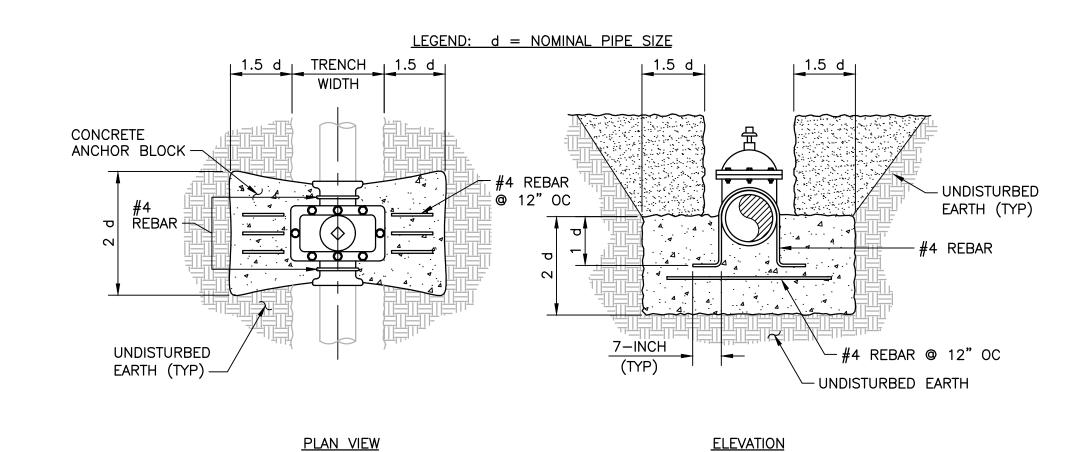


- EXISTING WATER MAIN PIPE

RESTRAINED JOINT

SEE NOTE 5

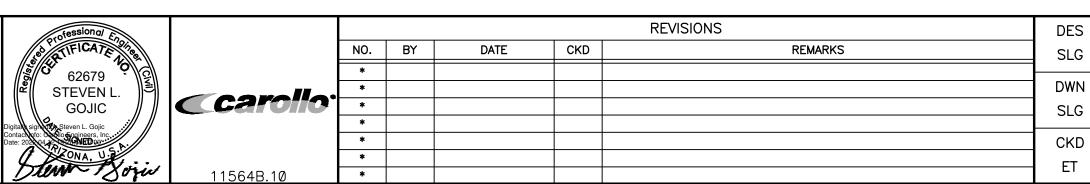
CONNECTION TO EXISTING WATER MAIN DETAIL CD 02 / SCALE: NTS FILE: 11564B_CD-02.DWG



GATE VALVES

- 1. CONCRETE THRUST BLOCKS WILL NOT BE ALLOWED IN CITY RIGHT OF WAY EXCEPT WHERE SPECIFICALLY NOTED ON THE DRAWINGS AND CAN ONLY BE USED IN CONJUNCTION WITH RESTRAINED JOINT FITTINGS AND PIPE. ALL OTHER CONNECTIONS WILL BE RESTRAINED JOINT PIPE LENGTHS IN ACCORDANCE WITH MAG STANDARD DETAIL 303, MAG STANDARD SPECIFICATION SECTION 610, & CITY OF PHOENIX SUPPLEMENTS.
- 2. THRUST BLOCKS TO EXTEND TO UNDISTURBED GROUND, CONCRETE TO BE TYPE C PER MAG STD SPEC 610, MAG STD DET 301, & COP SUPPLEMENTS.
- 3. FORM ALL NON-BEARING VERTICAL SURFACES.
- 4. EXPOSED (NOT ENCASED IN CONCRETE) REBAR SHALL BE WRAPPED IN 10 MIL DIELECTRIC TAPE.
- 5. REBAR SHALL BE FORMED AND INSTALLED TO PROVIDE FULL CONTACT ON THE FITTING TO BE RESTRAINED.
- 6. MINIMUM BEARING AREA FOR 12-INCH VALVE IS 14 SF.





PAVEMENT SECTIONS DETAIL



CITY OF PHOENIX WATER SERVICES DEPARTMENT

> HEDGEPETH WATERLINE IMPROVEMENT DISTRICT

CIVIL

CIVIL DETAILS II

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