

**CITY OF PHOENIX  
STREET TRANSPORTATION DEPARTMENT  
DESIGN & CONSTRUCTION MANAGEMENT DIVISION  
AMERICAN RESCUE PLAN ACT  
LOCAL DRAINAGE MITIGATION PROJECT PACKAGE 1**

**7TH ST & MINNEZONA  
ST83140119**

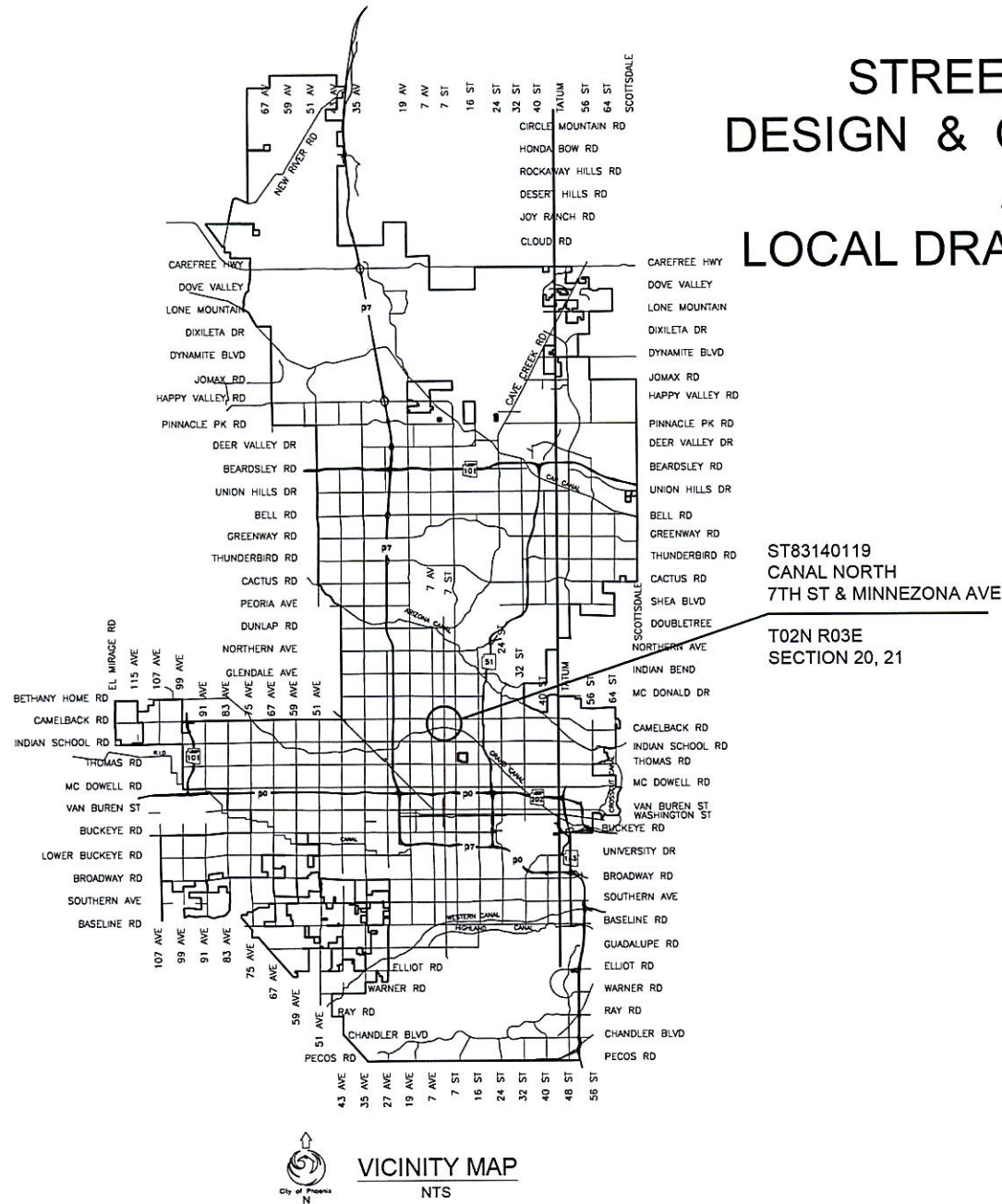
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST83140119	1	50	
<b>AZTEC</b>					
DRAWN: LNB   DESIGN: CJR   CHECKED: TMM   DATE: 11/23					

**MAYOR**  
KATE GALLEGO  
**CITY MANAGER**  
JEFFREY BARTON  
**CITY COUNCIL**

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

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**2024**

**CITY BENCHMARKS**

SRP ALUMINUM CAP ON SOUTH END OF SOUTHWEST WINGWALL OF BRIDGE OVER GRAND CANAL, AT THE INTERSECTION OF 7TH ST AND CAMPBELL ROAD  
EL 1127.319 (NGVD-29)

COP FLUSH BRASS CAP, AT THE INTERSECTION OF 12TH ST AND CAMPBELL ROAD  
EL 1127.304 (NGVD-29)

COP BRASS CAP IN HAND HOLE, AT THE INTERSECTION OF 16TH ST AND CAMPBELL ROAD  
EL 1135.800 (NGVD-29)

LENGTH OF PROJECT: 7TH STREET = 367 LF  
8TH STREET = 336 LF  
MEADOWBROOK AVENUE = 715 LF  
MINNEZONA AVENUE = 319 LF

AREA OF DISTURBANCE = 0.42 ACRES



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

APPROVED Danish Heb 6/4/2024  
WATER SERVICES DEPARTMENT DATE

APPROVED Nazar Nabaty 6/4/2024  
NAZAR NABATY, P.E., FLOODPLAIN ADMINISTRATOR DATE

APPROVED Eric J Froberg 6/4/2024  
ERIC J FROBERG, P.E., CITY ENGINEER DATE

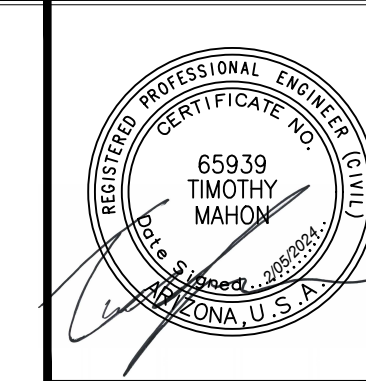
ST83140119: 7TH ST & MINNEZONA

AMERICAN RESCUE PLAN ACT  
LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS – MARICOPA CO.

**LEGEND AND NOTES**

**ABBREVIATIONS**

PC = PIPE CONNECTION  
MH = MANHOLE  
CB = CATCH BASIN



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140119	2	50	
12/23		DATE:			
DRAWN: LNB		DESIGN: CJR		CHECKED: TMM	

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

**LEGEND**

- ▲ BENCHMARK
- NEW SURVEY MONUMENT – M.A.G. DETAIL 120-1 TYPE "B"
- ◻ NEW SURVEY MONUMENT – M.A.G. DETAIL 120-1 TYPE "A"
- ===== COMBINED CURB & GUTTER – M.A.G. DETAIL 220 TYPE "A"
- █ BACKFILL TYPE & SQ. YD. PVMT. REPLACEMENT – C.O.P. DETAIL P1200
- ▨ EXISTING CONCRETE PAVEMENT OR SIDEWALK
- ▩ NEW CONCRETE SIDEWALK – STD. DETAIL P1230
- ▩ NEW CONCRETE DRIVEWAY OR ALLEY ENT. PER DETAIL NO. ON PLANS
- ▩ NEW CONCRETE SIDEWALK RAMP PER DETAIL ON PLANS
- ∇ AVERAGE GROUND ELEVATION AT R/W LINE
- ◊ BACKFILL COMPACTION TYPE
- EXISTING DITCH
- 24" IRR (SRP) EXISTING IRRIGATION LINE W/SIZE (NOTE PRIVATE, SALT RIVER OR R.I.D.)
- EXISTING IRRIGATION STRUCTURE
- EXISTING IRRIGATION STANDPIPE
- NEW IRRIGATION STANDPIPE – M.A.G. DETAIL 503
- NEW IRRIGATION VALVE – M.A.G. DETAIL 506 W/ CONC. SCOURING BASIN
- IRRIGATION BERM
- NEW IRRIGATION STRUCTURE PER DETAIL ON PLANS
- 12" DIP W EXISTING WATER LINE W/SIZE & TYPE (12" AND SMALLER)
- 36" DIP W EXISTING WATER LINE W/SIZE & TYPE (GREATER THAN 12")
- ADJUST EXIST. WATER VALVE BOX – C.O.P. DETAIL P1391
- 3/4" W — WATER SERVICE W/SIZE AND WATER METER BOX
- EXISTING FIRE HYDRANT
- NEW OR RELOCATED FIRE HYDRANT BY CONTRACTOR
- T.N. — EXISTING WATER VALVE W/TOP OF OPERATING NUT ELEVATION
- 8" VCP S EXISTING SANITARY SEWER LINE W/SIZE & TYPE (12" AND SMALLER)
- 30" VCP S EXISTING SANITARY SEWER LINE W/SIZE & TYPE (GREATER THAN 12")
- EXISTING MANHOLE
- M — NEW MANHOLE
- CATCH BASIN, GUTTER INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB & GUTTER INLET (LENGTH TO SCALE)
- SD — EXISTING STORM DRAIN LINE W/SIZE & TYPE (GREATER THAN 12")
- NEW PIPE FOR STORM DRAIN OR IRRIGATION LINE
- 4" G EXISTING GAS LINE W/SIZE
- E — EXISTING UNDERGROUND ELECTRIC CABLE OR SINGLE CONDUIT
- E-40 — EXISTING UNDERGROUND ELECTRIC DUCT (SPECIFY NUMBER)
- T — EXISTING TELEPHONE BURIED CABLE OR SINGLE CONDUIT
- T-40 — EXISTING UNDERGROUND TELEPHONE DUCT (SPECIFY NUMBER)
- CATV — EXISTING UNDERGROUND CABLE TV
- FO — EXISTING UNDERGROUND FIBER OPTIC LINE
- EXISTING TRAFFIC SIGNAL POLE W/MAST ARM & SIGNAL INDICATIONS
- ▲ EXISTING STREET OR TRAFFIC SIGN
- EXISTING UTILITY POLE W/LINE INDICATING WIRE DIRECTION
- EXISTING WIRE FENCE
- EXISTING BLOCK FENCE
- EXISTING WOOD FENCE
- MAIL BOX
- EXISTING POWER POLE DOWN GUY ANCHOR
- EXISTING STREET LIGHT & POLE
- ⊗ EXISTING TREE OR STUMP TO BE REMOVED – MORE THAN 12" DIA.
- ⊙ EXISTING TREE TO BE TRANSPLANTED BY CONTRACTOR
- EASEMENT LINE
- EXISTING OR NEW R/W LINE
- PAVEMENT CENTER LINE OR MONUMENT LINE
- ⊙ EXISTING TREE OR STUMP TO BE REMOVED 12" DIA. OR LESS (NON PAY ITEM)
- ⊙ EXISTING TREE TO REMAIN

**NOTES**

- 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.
- ALL STORM SEWER MANHOLES ARE TO BE CONSTRUCTED WITHOUT STEPS.
- NEW MANHOLE COVERS LOCATED IN SIDEWALK SHALL BE GROUND TO OBLITERATE RAISED LETTERING, AND PROVIDE A SMOOTH SURFACE FLUSH WITH THE ADJACENT SIDEWALK.
- PIPE CONNECTIONS TO EXISTING CONCRETE PIPE MAINS SHALL BE MADE IN ACCORDANCE WITH DETAILS CALLED OUT ON THE PLANS. CONNECTION TO MAINS SHALL NOT BE CLOSER THAN 5', CENTER TO CENTER.
- PIPE CONNECTIONS TO NEW PRECAST CONCRETE PIPE MAINS SHALL BE MADE WITH FACTORY MADE WYES OR TEES. THE DETAIL OF THE FITTINGS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE. PIPE CONNECTIONS TO NEW CAST IN PLACE CONCRETE PIPE MAINS SHALL BE MADE PER COP DETAIL P1576.
- CATCH BASIN CONNECTOR PIPES SHALL BE LAID ON A STRAIGHT ALIGNMENT AND SLOPE UNLESS OTHERWISE SPECIFIED. IF BREAKS IN ALIGNMENT OR SLOPE ARE NECESSARY TO MEET FIELD CONDITIONS. THE MAXIMUM DEFLECTION SHALL BE 22-1/2". THE BEND SHALL BE COLLARED ACCORDING TO COP DETAIL P1505. ANY ANGLE BENDS GREATER THAN 22-1/2" SHALL BE PREFABRICATED.
- CONNECTOR PIPES SHALL CONNECT TO CATCH BASIN WALLS AT AN ANGLE NOT TO EXCEED 22-1/2 FROM PERPENDICULAR.
- FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND HORIZONTAL CONTROLS, ARE LOCATED ONLY APPROXIMATELY AND TO THE BEST AVAILABLE INFORMATION PROVIDED BY VARIOUS OWNERS OF THE FACILITIES AND SUPPLEMENTED BY VISUAL SURFACE INFORMATION WHERE APPROPRIATE. ACCURACY, LOCATION AND COMPLETENESS OF THIS INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO INITIATION OF CONSTRUCTION.
- A ONE (1) FOOT MINIMUM VERTICAL SEPARATION FROM DRY UTILITIES CROSSINGS SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAIN, OR WATER SERVICE TO OUTSIDE UNDERGROUND UTILITY.
- AT LEAST TWO WORKING DAYS BEFORE CONSTRUCTION, THE CONTRACTOR SHALL CONTACT BLUESTAKE TO FIND AND FLAG UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT OTHER APPROPRIATE UTILITIES DIRECTLY IF THEY ARE NOT ON BLUESTAKE SYSTEM.
- VERTICAL CONTROL IS BASED ON NATIONAL GEODETIC SURVEY, NGVD 29.
- UNLESS OTHERWISE NOTED, STATIONS SHOWN ON PIPE PROFILES ARE ALONG CENTERLINE OF PIPE.
- UNLESS OTHERWISE NOTED, PIPE SHALL BE BEDDED IN ACCORDANCE WITH CITY OF PHOENIX DETAIL P1200.
- CATCH BASINS ARE STATIONED PERPENDICULAR TO THE CENTERLINE OF THE STREET AT THE CENTERLINE OF THE MAINTENANCE BASIN.
- SANITARY SEWER MAINS AND TAPS CROSSING OVER STORM DRAIN MAINS SHALL BE SUPPORTED PER MAG DETAIL 403-1, 403-2, OR 403-3.
- ALL EXISTING PRECAST CONCRETE SAFETY CURBS AND ALL EXISTING WOODEN PARKING CURBS WHICH ARE INSIDE THE RIGHT OF WAY AND APPROXIMATELY PARALLEL TO THE NEW CURB LINE SHALL BE RESET ON THE RIGHT OF WAY DIRECTLY OPPOSITE THEIR EXISTING LOCATION, WITH THE BACK EDGE ON THE RIGHT OF WAY LINE. ALL OTHER PRECAST CONCRETE SAFETY CURBS INSIDE THE STREET RIGHT OF WAY SHALL BE SALVAGED AND STOCK PILED FOR THE OWNER AT THE RIGHT OF WAY LINE.
- EXISTING PRECAST CONCRETE SAFETY CURBS OUTSIDE THE RIGHT OF WAY WHICH ARE DISTURBED BY NEW CONSTRUCTION SHALL BE RESET IN THEIR ORIGINAL POSITION BY THE CONTRACTOR. THERE WILL BE NO SEPARATE MEASUREMENT OR PAYMENT FOR THIS WORK, THE COST BEING CONSIDERED INCLUDED.
- ALL EXISTING DRIVEWAYS AND ALL EXISTING ALLEYS SHALL BE GRADED TO MATCH THE NEW WORK IN ACCORDANCE WITH STD DETAIL P1164, UNLESS OTHERWISE SPECIFIED. EXISTING SURFACING SHALL BE REMOVED AND REPLACED AS NECESSARY.

**NOTES (CONT)**

- CONTACT INSPECTOR IF LESS THAN 6 INCHES OR COVER WILL BE MAINTAINED BELOW SCARIFICATION DEPTH CONTRACTOR TO FIELD VERIFY DEPTH AT LOCATION OF NEW AC AND SIDEWALK.
- IN HISTORIC PRESERVATION ZONES, THE CONTRACTOR SHALL DISTURB AS LITTLE OF HISTORIC SIDEWALK AS POSSIBLE. UNLESS OTHERWISE PROVIDED ON THE PLANS:  
  
THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING AC DRIVEWAYS SHALL BE FILLED WITH A MINIMUM OF 3" ACSC ON 100% COMPACTED NATIVE SOIL. WHERE EXISTING PAVEMENT AND BASE THICKNESS EXCEED THE MINIMUMS, MATCH THE EXISTING.  
  
THE SPACE BETWEEN THE BACK OF NEW SIDEWALKS AND EXISTING PRIVATE SIDEWALKS, AND THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING PCC DRIVEWAYS SHALL BE FILLED WITH PCC. THE THICKNESS AND CLASS SHALL MATCH THAT OF THE NEW SIDEWALK OR DRIVEWAY ENTRANCE.  
  
THE SPACE BETWEEN THE BACK OF THE SIDEWALKS AND EXISTING AC PARKING LOTS, WHICH FALL WITHIN OR ABUT THE R/W SHALL BE FILLED WITH 2" ACSC ON 100% COMPACTED NATIVE SOIL.
- EXISTING IRRIGATION BERMS DISTURBED BY NEW CONSTRUCTION SHALL BE RECONSTRUCTED AS SHOWN ON PLANS.
- CATCH BASIN ACCESS FRAME AND COVERS SHALL BE CONSTRUCTED PER COP DETAIL P1561.
- DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DRIVEWAY ACCESS REMOVAL SHALL BE APPROVED BY THE ENGINEER.

**STRUCTURAL NOTES**

- "CLEAR" DIMENSIONS FOR DEPTH OF REINFORCING STEEL ARE FROM FACE OF CONCRETE TO FACE OF BARS.
- ALL EXPOSED EDGES OF CONCRETE SHALL BE BEVELED OR ROUNDED.
- ALL EXPOSED CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) STANDARD SPECIFICATION 505.9 – FINISHING CONCRETE, UNLESS OTHERWISE SPECIFIED.

**PAVING NOTES**

- COMPACTION SHALL COMPLY WITH MAG SECTION 601.
- CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST APPLICABLE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS.
- THE CITY OF PHOENIX PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTION GROUP, 602-262-7811 VOICE OR 7-1-1 TTY, SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONSTRUCTION WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- 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.
- ALL NEW OR RELOCATED UTILITIES SHALL BE PLACED UNDERGROUND.
- THE ACTUAL POINT OF PAVEMENT MATCHING, AND/OR TERMINATION, SHALL BE DETERMINED IN THE FIELD BY THE PLANNING AND DEVELOPMENT DEPARTMENT CIVIL/SITE INSPECTOR.
- AN APPROVED PAVING PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDEDBY AN APPROVED PLAN REVISION.
- OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- 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.

**PAVING NOTES (CONT)**

- 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 CITY OF PHOENIX STANDARD DETAIL P1391.
- GRADING BETWEEN BACK OF CURB AND PROPERTY LINE SHALL BE LIMITED TO 4:1 SLOPE.
- THE PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR MUST CONTACT STREET TRANSPORTATION DEPARTMENT, TRAFFIC SERVICES DIVISION AT 602-495-0205 VOICE OR 7-1-1 TTY TWO (2) WEEKS PRIOR TO COMPLETION OF PAVING WORK FOR SIGNING & STRIPING.
- AUTHORIZATION TO RESTRICT OR CLOSE THE RIGHT-OF-WAY CAN ONLY BE OBTAINED THROUGH THE TRAFFIC SERVICES DIVISION, RIGHT- OF- WAY MANAGEMENT (ROWM) SECTION. TRACS PERMITS MUST BE OBTAINED FOR EACH INDIVIDUAL PROJECT THROUGH ROWM. TRACS PERMITS ARE APPROVED BASED ON THE PHASING OF THE PROJECT AND THE SCOPE OF WORK. PERMISSION TO RESTRICT CITY STREETS, SIDEWALKS AND ALLEYS (STREET CLOSURE PERMITS) SHALL BE REQUESTED AS SPECIFIED IN CHAPTER 2 OF THE TRAFFIC BARRICADE MANUAL, CURRENT VERSION AND ADDENDUMS THEREOF -STREETS DEPARTMENT: RIGHT-OF-WAY MANAGEMENT OFFICE
- ASPHALT RESTORATION IS REQUIRED FOR ANY STREET CUT. REFER TO STREET PAVEMENT CUT POLICY (TRT 00164 AND ORDINANCE G-6308).
- PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER MAG. SECTION 336 AND CITY DETAIL P1200 -TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER MAG STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER C.O.P. DETAIL P1230.
- TREES AND SHRUBBERY IN THE R/W THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT A PPROVAL OF THE CITY LANDSCAPE ARCHITECT OR HIS ASSIGNEES. THE PERMITTEE SHALL BE RESPONSIBLE FOR OBTAINING AUTHORIZATION TO REMOVE AND/OR RELOCATE SAID TREES OR SHRUBBERY BY CALLING THE PARKS AND RECREATION DEPARTMENT AT (602)262-6501 AND TRANSPORTATION DEPARTMENT AT (602)534-9898.
- PER THE STREET PAVEMENT CUT POLICY (TRT 00164) AND CITY ORDINANCE G-6308, ALL STREET PAVEMENT CUTS WILL REQUIRE ASPHALT RESURFACING TREATMENTS BASED ON THE AGE OF THE PAVEMENT. FOR STREETS LESS THAN TWO (2) YEARS OLD, THE PERMITTEE MUST APPLY AN ASPHALT MILL AND OVERLAY PAVEMENT TREATMENT. FOR STREETS GREATER THAN TWO (2) YEARS OLD, THE PERMITTEE MUST APPLY A SLURRY SEAL AND/OR MICROSEAL TREATMENT.
- ALL RAMPS MUST MEET 2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN AND CITY OF PHOENIX SUPPLEMENT TO MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS; 2% MAX CROSS SLOPES AND 12:1 MAX LONGITUDINAL SLOPES.

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

**LEGEND & NOTES**

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

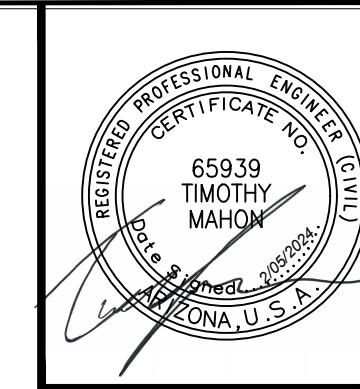
**CANAL NORTH**  
**7TH ST & MINNEZONA**  
**ST83140119**

DR: LNB	DES: CJR	CHK: TMM	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	G-1.01
SCALE: NONE			

AMERICAN RESCUE PLAN ACT  
LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS – MARICOPA CO.

**WATER GENERAL NOTES**

**WATER NOTES (CONT.)**



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140119	3	50	
12/23					
DATE:					
DRAWN: LNB		DESIGN: CJR		CHECKED: TMM	

**WATER NOTES (CONT.)**

REVISION BY	DESCRIPTION	NO.	DATE

REVISION BY	DESCRIPTION	NO.	DATE

REVISION BY	DESCRIPTION	NO.	DATE

- ALL WATER VALVE BOXES SHALL BE PER CITY OF PHOENIX SUPPLEMENT TO MAG. SPECIFICATIONS AND DETAILS P1391, TYPE A ONLY.
- ALL CONSTRUCTION IN THE 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.
- 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 305-1 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.
- THE FOLLOWING M.A.G. DETAILS ARE SPECIFICALLY NOT APPROVED:
  - 302-1 JOINT RESTRAINT WITH TIE RODS
  - 302-2 JOINT RESTRAINT WITH TIE RODS – ANCHOR BLOCKS
  - 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
- COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601 AND CITY OF PHOENIX SUPPLEMENTS.
- NEW WATER LINES ARE TO BE BUILT IN ACCORDANCE WITH THE CITY OF PHOENIX "STANDARD UTILITY LOCATIONS".
- 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.
- PIPE DEFLECTION SHALL BE PER MANUFACTURERS' RECOMMENDATIONS.
- ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE CURRENT CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL".
- THE CONTRACTOR IS TO NOTIFY THE PUBLIC THAT WILL BE AFFECTED BY ANY SHUTDOWNS A MINIMUM OF 48 HOURS IN ADVANCE.
- 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.
- 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.
- A TWO (2) FOOT MINIMUM VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN ANY SEWER 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.
- EXCEPTIONS OR DEVIATIONS FROM THE ABOVE MINIMUM CLEARANCES MUST BE APPROVED AND SHOWN ON THE APPROVED WATER SEWER PLANS. WHEN UTILITY CONFLICTS ARE FOUND DURING CONSTRUCTION, ALL CHANGES AND REVISIONS MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- 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.
- ALL SERVICES SHALL RUN IN A STRAIGHT LINE FROM THE WATER MAIN TO THE METER BOX.
- NEITHER WATER SERVICE METER BOX NOR ANY PORTION OF A WATER SERVICE SHALL BE INSTALLED UNDER AN EXISTING OR PROPOSED DRIVEWAY OR SIDEWALK RAMP.
- CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION.

- RECORD DRAWING SUBMITTALS MUST COMPLY PER THE WATER SERVICES DEPARTMENT ENGINEERING POLICY P-68 AND P-69. A COPY OF THE POLICY CAN BE OBTAINED IN THE DEPARTMENT'S WEBSITE: [HTTP://PHOENIX.GOV/WATERSERVICES/DESIGN/ENGPOLICIES/INDEX.HTML](http://PHOENIX.GOV/WATERSERVICES/DESIGN/ENGPOLICIES/INDEX.HTML)
- 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.
- 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.
- A PAVEMENT CUT SURCHARGE SHALL BE ASSESSED ON THIS PROJECT FOR ANY TRENCHING OR POTHOLING IN NEW ASPHALT PAVEMENT THAT IS LESS THAN 30 MONTHS OLD. SURCHARGE FEES ASSESSED ARE IN ADDITION TO THE REGULAR PERMIT FEES AND ARE OVER AND ABOVE ANY SPECIAL BACKFILL, COMPACTION, AND PAVEMENT REPLACEMENT STIPULATIONS THAT MAY BE IMPOSED AS A CONDITION OF PERMITTING. PAVEMENT CUT SURCHARGE FEES ARE ASSESSED IN ACCORDANCE WITH SECTION 31-38 OF THE PHOENIX CITY CODE.
- 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.
- 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 ACCESSIBILITY TO THE VALVE OPERATING NUT FOR ALL VALVES, WITHIN THE PROJECT BOUNDARIES. FAILURE TO MAINTAIN ACCESSIBILITY TO VALVES SHALL BE CAUSE FOR CANCELING THE SHUTDOWN AND THE CONTRACTOR MUST PROPERLY REQUEST A SCHEDULE REVISION.  
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.
- VALVE BOX REMOVAL – AFTER ACCEPTANCE OF THE NEW WATERLINES, FIRE HYDRANTS AND SERVICE CONNECTIONS THE CONTRACTOR SHALL SHUT THE VALVE, REMOVE THE BOX AND COVER, BACKFILL AND COMPACT THE VOID WITH ABC AS APPLICABLE, COVER WITH 2-INCH AC (C ¾) PAVEMENT, OR AS REQUIRED TO MATCH EXISTING GROUND.
- CUT AND PLUG –THE CONTRACTOR SHALL CUT AND PLUG EXISTING WATERLINES AS NOTED ON THE APPROVED PLANS AFTER ALL EXISTING WATER SERVICES HAVE BEEN TIED OVER TO THE NEW WATERLINE.
- SWING CONNECTIONS – AFTER THE NEW WATERLINE IS ACCEPTED FOR SERVICE, THE CONTRACTOR SHALL MAKE "SWING CONNECTIONS" TO EXISTING WATERLINES AS INDICATED ON THE APPROVED PLANS. "SWING CONNECTIONS" SHALL INCLUDE ALL PIPING AND APPURTENANCES (OFFSETS, BENDS, ETC.) REQUIRED TO AFFECT A CONNECTION.
- WATER SERVICES – THE CONTRACTOR SHALL REPLACE EXISTING WATER SERVICES AS INDICATED ON THE APPROVED PLANS WITH NEW SERVICE PIPE AND CURB STOP FOR THE RELOCATED EXISTING WATER METERS. (ALL SERVICE CONNECTIONS MUST BE AT MINIMUM 1-INCH. FOR 3/4-INCH METERS, A 3/4-INCH REDUCER MUST BE INSTALLED TO ACCOMMODATE THE METER).
- METER AND BOX – THE CONTRACTOR SHALL RELOCATE THE EXISTING METERS AND METER BOXES, AND CONNECT THEM AS INDICATED ON THE APPROVED PLANS AFTER THE NEW WATERLINE HAS BEEN ACCEPTED FOR SERVICE.
- NEW WATER METERS AND SERVICES WILL BE INSTALLED AFTER THE CONTRACTOR MAKES PROPER APPLICATION AND PAYS THE PREVAILING FEES. APPLICATION AND PAYMENT OF FEES CAN BE MADE AT THE FOLLOWING ADDRESS: CITY OF PHOENIX, WATER SERVICES DEPARTMENT, INFRASTRUCTURE RECORD SERVICES DIVISION, 200 WEST WASHINGTON STREET, 8TH FLOOR, PHOENIX, AZ 85003.
- SURPLUS ABANDONED FIRE HYDRANTS (BARREL PORTION ONLY) TO THE CITY OF PHOENIX WATER DEPARTMENT – SUPPORT SERVICES, 4436 N. 35TH AVENUE, PHOENIX. CONTACT THE WATER DEPARTMENT – SUPPORT SERVICES BY CALLING 602-262-5077 FOR ANY ADDITIONAL INFORMATION.
- CITY OF PHOENIX WATER DEPARTMENT PERSONNEL SHALL REMOVE ALL PROPOSED EXISTING WATER METERS THAT ARE TO BE ABANDONED ONCE ALL REQUIRED FEES HAVE BEEN PAID BY THE APPLICANT AT COUNTER 8 – CIVIL PERMITS, ON THE SECOND FLOOR OF CITY OF PHOENIX CITY HALL, LOCATED AT 200 W. WASHINGTON STREET.
- ALL CONSTRUCTION ACTIVITIES SHALL BE CONTAINED WITHIN THE PUBLIC RIGHT OF WAY OR IN EASEMENTS GRANTED FOR THE WATER AND/OR SEWER MAIN INSTALLATION.
- TRAFFIC CONTROL SHALL CONFORM TO THE RIGHT-OF-WAY MANAGEMENT PROGRAM (RMP), ADOPTED BY THE CITY OF PHOENIX AND SHALL ALSO BE SUBJECT TO CITY REVIEW AND APPROVAL.
- ALL DIMENSIONS SHOWN ARE TO THE MONUMENT LINE OTHERWISE. IN RIGHT OF WAY, UNLESS NOTED OTHERWISE.
- WHEN RELOCATING WATER METERS WHICH UTILIZE EITHER GALVANIZED OR POLYETHYLENE SERVICE PIPE (OR ANY OTHER NON STANDARD SERVICE PIPE) THE ENTIRE SERVICE PIPING SHALL BE REPLACED USING THE APPROVED SERVICE PIPE MATERIAL FOR THAT PARTICULAR METER SIZE. THE EXISTING CORPORATION STOP CAN BE USED PROVIDED AND APPROVED COPPER PIPE ADAPTER IS USED. APPROVED ADAPTERS ARE THE FORD C04-43 AND C04-54 CONVERSION ASSEMBLY OR EQUAL.

- BIDDERS ARE ADVISED THAT THE LOCATION, NUMBER, AND TYPE OF UTILITIES SHOWN ON THESE PLANS AND SPECIFICATIONS ARE ONLY AS ACCURATE AS THE BEST INFORMATION AVAILABLE FROM PUBLIC UTILITIES, OWNERS, AND USERS AT THE TIME THESE PLANS AND SPECIFICATIONS WERE PREPARED. UNDERGROUND UTILITIES MAY BE PRESENT ON THIS PROJECT WHICH WERE NOT DISCLOSED TO THE ENGINEER. NO REPRESENTATION IS MADE THAT THE UTILITIES LOCATIONS INDICATED ON THESE PLANS ARE ACCURATE, COMPLETE, OR EXCLUSIVE. BIDDERS ARE ADVISED TO UNDERTAKE THEIR OWN INVESTIGATIONS OF EXISTING CONDITIONS BEFORE SUBMITTING A PROPOSAL ON THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ALL TEST PITS OR THE PRE-CONSTRUCTION INVESTIGATION OF UNDERGROUND UTILITIES OR STRUCTURE. PURSUANT TO ARIZONA REVISED STATUTE 40-360.21, THE CONTRACTOR MUST CONTACT "BLUE STAKE" AT (602)261-1100 OR THE APPROPRIATE PUBLIC UTILITY FOR ASSISTANCE IN LOCATING UNDERGROUND FACILITIES, LINES, AND APPURTENANCES PRIOR TO CONSTRUCTION.
- BY SUBMITTING A PROPOSAL ON THIS PROJECT, BIDDERS ARE REPRESENTING THAT THEY HAVE CONSIDERED THE POTENTIAL IMPACT OF TEMPORARY OR PERMANENT RELOCATION OF EXISTING UNDERGROUND UTILITIES LOCATED WITHIN THE PROJECT ON THEIR COSTS, AND THAT THEY HAVE INCLUDED IN THEIR PROPOSALS THE COST OF FINDING, PROTECTING, AND RELOCATING ALL EXISTING UTILITIES WITHIN THE PROJECT. NO ADDITIONAL COMPENSATION FOR DAMAGES WILL BE PAID FOR ANY COST, LOSS, DAMAGE, HINDRANCE, OR DELAY INCURRED BY A CONTRACTOR OR SUBCONTRACTOR DUE TO CONFLICTS WITH EXISTING UTILITIES; REGARDLESS OF WHETHER OR NOT THOSE UTILITIES ARE INDICATED ON THE PLANS OR SPECIFICATIONS FOR THIS PROJECT.
- THE SOLE AND EXCLUSIVE REMEDY FOR ANY COST, HINDRANCE, OR DELAY CAUSED BY ANY UTILITIES LOCATED WITHIN THE PROJECT (WHETHER OR NOT INDICATED ON THE PLANS OR SPECIFICATIONS) SHALL BE AN EXTENSION OF THE CONTRACT TIME; THE NEED FOR OR DURATION OF WHICH SHALL BE DETERMINED BY THE ENGINEER IN ITS SOLE DISCRETION.
- PER MAG SECTION 630, THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS AND TECHNICAL DATA REQUIRED FOR EVALUATING AND APPROVAL OF EACH TYPE OF VALVE. TAPPING SLEEVE AND VALVE AND BUTTERFLY VALVE. SHOP DRAWINGS MUST BE SUBMITTED TO WATER SERVICES AFTER THE ENGINEER OF RECORD HAS PROVIDED THEIR RECOMMENDATION OR APPROVAL.
- THE CONTRACTOR SHALL 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 UNLESS NOTED OTHERWISE. POLE BRACING MAY BE REQUIRED WHEN EXCAVATING NEAR POWER POLES.
- THE CONTRACTOR SHALL SUPPORT AND PROTECT IN PLACE ALL EXISTING UTILITIES WITHIN THE EXCAVATION AS REQUIRED BY THE MAG SPECIFICATIONS.
- 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.
- THE CONTRACTOR MUST PROTECT THE ADJACENT PROPERTY AND IMPROVEMENTS THERETO FROM ANY DAMAGE DURING CONSTRUCTION. ANY DAMAGE TO ADJACENT PROPERTY OR IMPROVEMENTS MUST BE REPAIRED OR REPLACED, TO THE PROPERTY OWNER'S SATISFACTION, AT THE CONTRACTOR'S EXPENSE.
- 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. THE CONTRACTOR SHALL SUBMIT THE DESIGN TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

**PAVEMENT MARKING NOTES**

- ALL PAVEMENT MARKINGS SHALL BE INSTALLED BY CITY OF PHOENIX FORCES. THE CITY OF PHOENIX INSPECTOR SHALL NOTIFY THE CITY OF PHOENIX TRAFFIC SERVICES FIELD INVESTIGATOR UNIT (602) 262-4684 A MINIMUM OF FIFTEEN (15) BUSINESS DAYS PRIOR TO HAVING TRAFFIC SIGN AND PAVEMENT MARKING WORK COMMENCE.

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

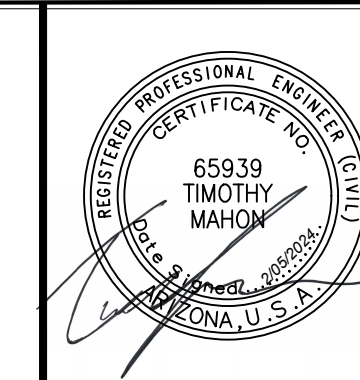
**LEGEND & NOTES**

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

**CANAL NORTH**  
**7TH ST & MINNEZONA**  
**ST83140119**

DR: LNB	DES: CJR	CK: TMM	DRAWING SERIES NO.
DATE: 12/23/23	DATE: 12/23/23	DATE: 12/23	
SCALE: NONE	HORIZONTAL		G-1.02

LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS - MARICOPA CO.

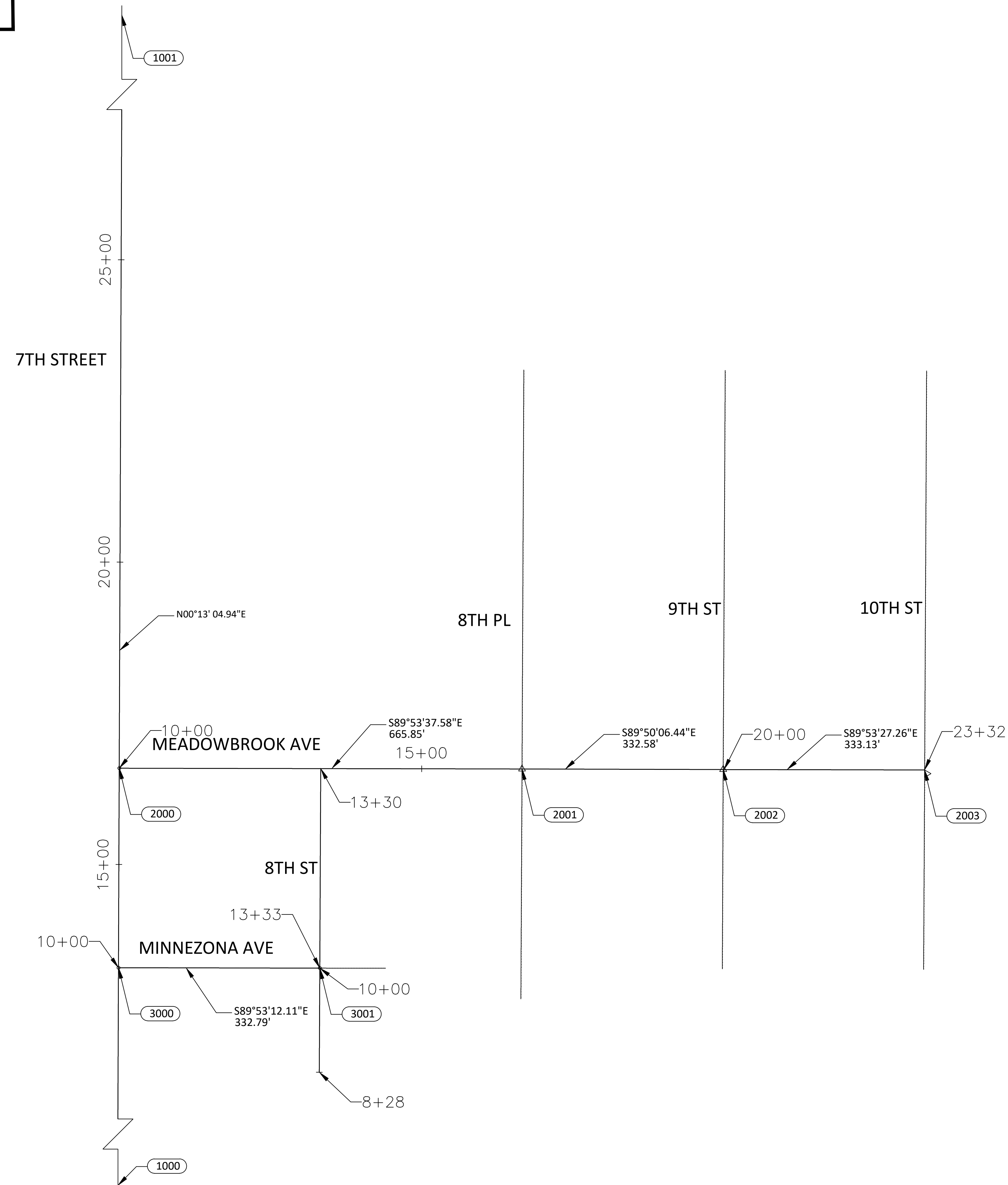


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140119	4	50	
DATE: 12/23					
DRAWN: LNB					
DESIGN: CJR					
					CHECKED: TMM

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



**CONTROL NOTE:**  
 THE HORIZONTAL DATUM IS NAD83(HARN) STATE PLANE, ARIZONA CENTRAL ZONE, ADJUSTED FROM GRID TO GROUND USING A COMBINED SCALE FACTOR OF 1.00016 WITH A SCALE POINT OF X=0.00, Y=0.00.  
 THE BASIS OF BEARING IS GRID NORTH NAD 83 STATE PLANE, ARIZONA CENTRAL ZONE  
 ELEVATIONS ARE ON THE NGVD29 VERTICAL DATUM

POINT	STATION	NORTHING	EASTING
1000	10+00.00	910,348.1512	654,879.8767
1001	36+38.79	912,986.9235	654,889.9186
2000	10+00.00	911,007.3026	654,882.5222
2001	16+65.85	911,006.0681	655,548.3727
2002	19+98.43	911,005.1110	655,880.9511
2003	23+31.56	911,004.4767	656,214.0832
3000	10+00.00	910,677.3926	654,881.2283
3001	13+32.79	910,676.7345	655,214.0198



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**GEOMETRIC CONTROL**

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

**CANAL NORTH**  
**7TH ST & MINNEZONA**  
**ST83140119**

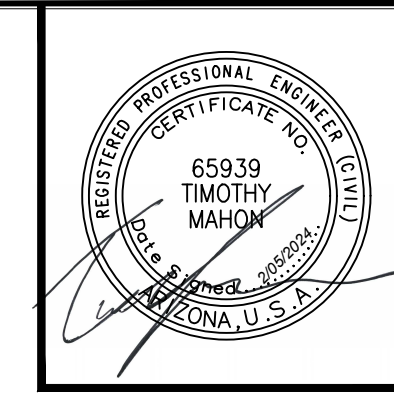
DR: LNB	DES: CJR	CHK: TMM	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	
SCALE: 1"=100'		HORIZONTAL	

G-2.01

AMERICAN RESCUE PLAN ACT  
 LOCAL DRAINAGE MITIGATION PROGRAM  
 PHOENIX STREETS - MARICOPA CO.

QUANTITY SUMMARY

ITEM No.	DESCRIPTION	UNIT	SHEET NUMBERS			TOTAL QTY (TOTAL QTY)
			SD-1.01	SD-1.02	SD-1.03	
M#####	(DESCRIPTION)	(UNIT)				
M3001001	SAWCUT, REMOVE, & REPLACE AC PAVEMENT PER MAG DTL 200-1, TYPE A	SY	28	426	0	454
M3001002	SAWCUT & REMOVE EXISTING CURB AND GUTTER	LF	155	510	17	682
M3010001	SUBGRADE PREPARATION	SY	0	561	0	561
M3360224	SAWCUT, REMOVE, AND REPLACE AC PAVEMENT, COP STD DET P1200	SY	425	521	163	1109
M3362100	MICROSEAL COAT	SY	1591	0	0	1591
M3400240	CONCRETE VALLEY GUTTER & APRON, MAG STD DTL 240	SF	0	1213	0	1213
M3400400	CONCRETE SIDEWALK, COP STD DTL P1230	SF	305	800	69	1174
M3400485	CONCRETE CURB RAMP, STD DETAILS P-1237, R = 20'	SF	219	925	0	1144
M3400486	CONCRETE CURB RAMP, STD DETAILS P-1240-1, R = 20'	SF	0	493	0	493
M3400487	CONCRETE CURB RAMP, STD DETAILS P-1241-1, MIDBLOCK	SF	0	309	0	309
M3400555	CONCRETE DRIVEWAY ENTRANCE, STD. DETAIL P-1255-1	SF	354	434	0	788
M3402201	CONCRETE CURB AND GUTTER, MAG STD DTL 220, TYPE A H=6"	LF	63	173	7	243
M3402203	CONCRETE ROLL CURB AND GUTTER, MAG STD DETAIL 220, TYPE "C"	LF	0	40	0	40
M3402243	ROLL CURB AND GUTTER TRANSITION MAG STD DETAIL 221	LF	0	21	0	21
M3500025	REMOVE CONCRETE SIDEWALK	SF	968	2877	69	3914
M4004505	PAVEMENT MARKING (YELLOW PAINT) (15 MILS) 4"	LF	705	0	0	705
M4004506	PAVEMENT MARKING (WHITE PAINT) (15 MILS) 4"	LF	940	0	0	940
M5051524	CONCRETE CATCH BASIN, TYPE M, COP STD DTL P1569-1	EA	4	5	1	10
M6012000	WATERLINE RELOCATION PER C.O.P STANDARD P1370	EA	2	5	0	7
M6012100	WATERLINE REPLACEMENT WITH DUTILE IRON PIPE	EA	0	0	1	1
M6101805	WATERLINE SERVICE CONNECTION (MAIN TO METER)	EA	0	3	0	3
M6108010	RELOCATE FIRE HYDRANT, DET. P1360 AND P1362 AND P1359, P1361, AND MAG SPECIFICATION 610 AND COP SUPPLEMENTAL 756	EA	1	1	0	2
M6108015	RELOCATE WATER VALVE	EA	2	4	0	6
M6180015	15" CLASS V RGRCP STORM SEWER PIPE	LF	49	37	8	94
M6180018	18" CLASS V RGRCP STORM SEWER PIPE	LF	262	56	65	383
M6180024	24" CLASS V RGRCP STORM SEWER PIPE	LF	0	611	108	719
M6180119	19"x30" ELLIPTICAL STORM SEWER PIPE, CLASS V RGRCP	LF	76	0	0	76
M6180520	STORM SEWER LATERAL CONNECTION PER DETAIL P1577	EA	1	0	1	2
M6250005	STORM SEWER MANHOLE, MAG STD DETAIL 522, COP DTL P1520	EA	3	4	1	8
M6307102	6" x 6" x 6" TEE, FURNISH & INSTALL	EA	0	1	0	1



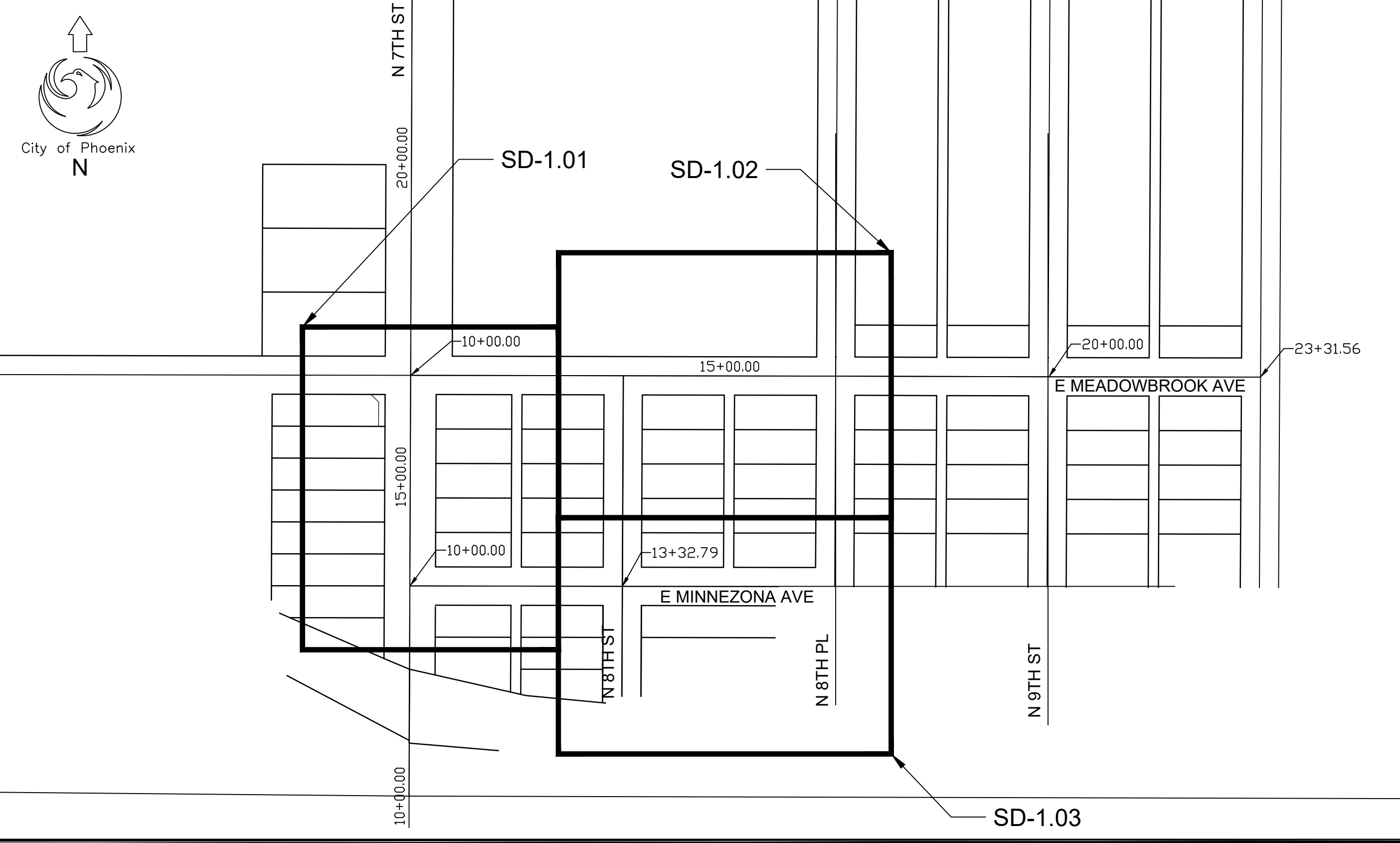
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140119	5	50	
DATE: 12/23		<b>AZTEC</b>			
DRAWN: LNB		DESIGN: CJR	CHECKED: TMM		

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

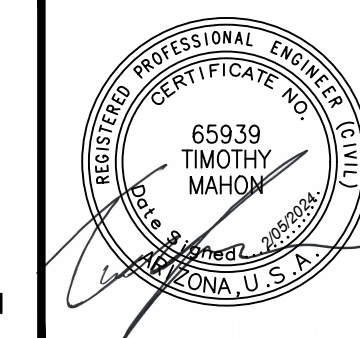
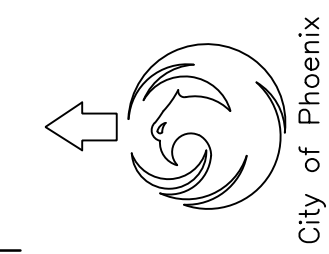
KEY MAP



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

<b>QUANTITY SUMMARY</b>	
<b>CITY OF PHOENIX, ARIZONA</b> STREET TRANSPORTATION DEPARTMENT	
<b>CANAL NORTH</b> <b>7TH ST AND MINNEZONA AVE</b> <b>ST83140119</b>	
DR: LNB	DES: CJR
DATE: 12/23	DATE: 12/23
SCALE: NONE	DRAWING SERIES NO. G-3.01

AMERICAN RESCUE PLAN ACT  
LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS - MARICOPA CO.



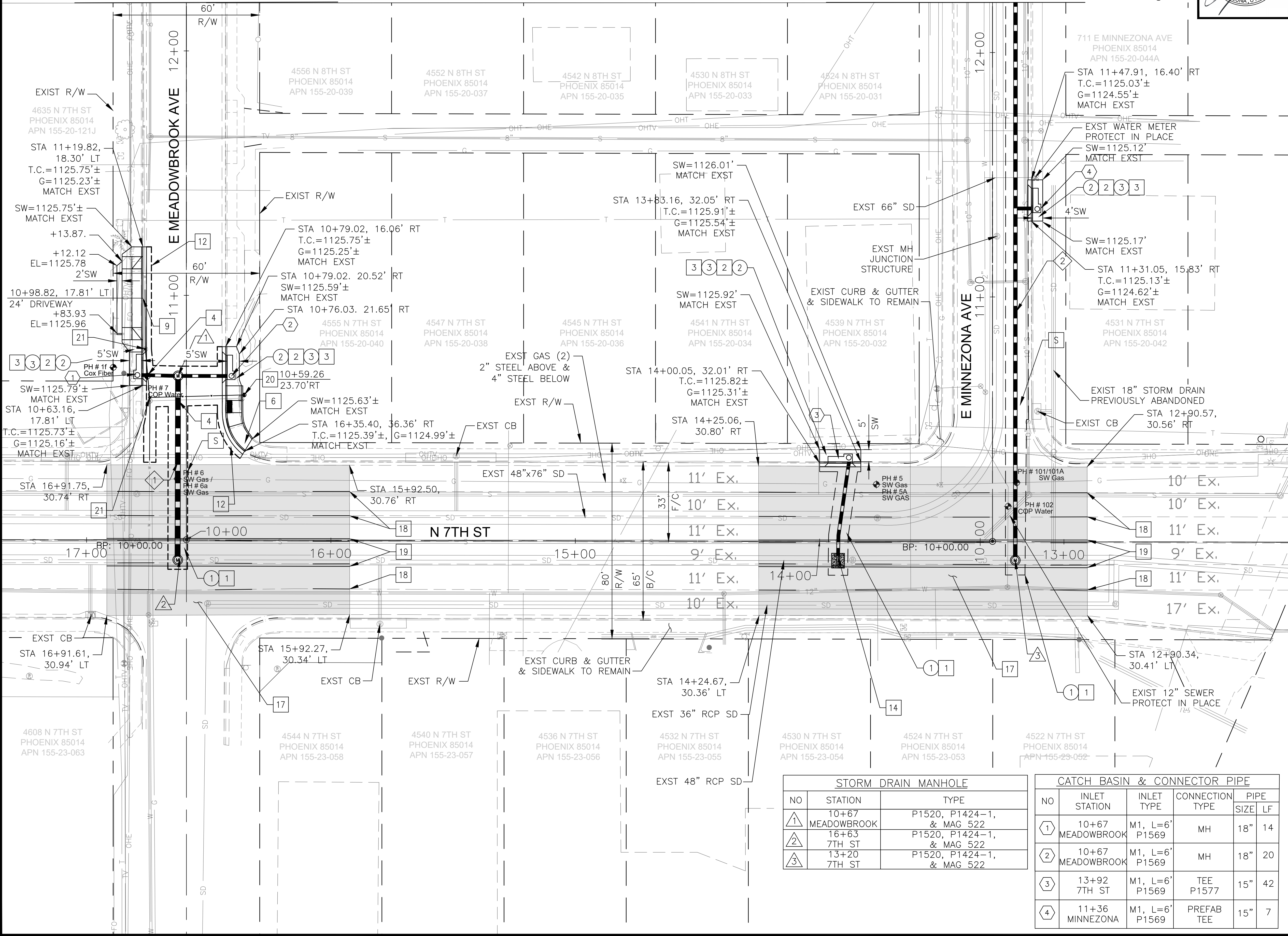
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140119	6	50	

12/23  
DATE: 12/23/23  
DRAWN: LNB DESIGN: CJR CHECKED: TMM



MATCH LINE SD-1.02

MATCH LINE SD-1.03



REMOVAL/RELOCATION NOTES				
NO	DESCRIPTION	UNIT	QTY	
1	REMOVE ASPHALT CONCRETE PAVEMENT	SY	425	
2	REMOVE PORTLAND CEMENT CONCRETE CURB AND GUTTER	LF	155	
3	REMOVE CONCRETE SIDEWALK	SF	968	

CONSTRUCTION NOTES				
NO	DESCRIPTION	UNIT	QTY	
1	TRENCH REPAIR REPLACEMENT PER COP SPEC 336 & COP STD DET P1200	SY	425	
2	CONCRETE CURB AND GUTTER, MAG STD DTL 220, TYPE A H-6"	LF	63	
3	CONCRETE SIDEWALK, COP STD DTL P1230	SF	305	
4	WATER RELOCATION PER COP STD DET P-1370; INSTALLATION OF 6" D.I.P. CLASS 350. POLYETHYLENE WRAP, PER COP SPECIFICATIONS 750.2 & MAG SPECIFICATIONS SECTION 610.6.2 & 610.6.3	EA	2	
6	20'R - LIMITED ROW CURB RAMP, COP STD DTL P1237	SF	219	
9	DRIVEWAY ENTRANCE - TYPE 1, COP STD DTL P1255-1	SF	354	
12	SAWCUT, REMOVE, AND REPLACE AC PAVEMENT PER MAG DET 200-1, TYPE A	SY	28	
14	TEE CONNECTION PER COP STD DET P-1577	EA	1	
17	MICROSEAL COAT	SY	1591	
18	PAVEMENT MARKING PAINT (4" WHITE, 15' STRIPE/25' GAP)	LF	705	
19	PAVEMENT MARKING PAINT (4" DOUBLE YELLOW, 15' STRIPE/25' GAP)	LF	940	
20	RELOCATE FIRE HYDRANT, DET. P1360 AND P1362 AND P1359, P1361, AND MAG SPECIFICATION 610 AND COP SUPPLEMENTAL 756	EA	1	
21	RELOCATE WATER VALVE	EA	2	

STORM DRAIN PIPE			
NO	STA TO STA	SIZE	LF
1	9+92 TO 10+68 MEADOWBROOK	19"X30"	76
2	9+93 TO 12+21 MINNEZONA	18"	228

S SAWCUT

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

**DRAINAGE PLANS**

CITY OF PHOENIX, ARIZONA  
STREET TRANSPORTATION DEPARTMENT

**CANAL NORTH**  
7TH ST AND MINNEZONA AVE  
ST83140119

DR: LNB DES: CJR CK: TMM DATE: 12/23/23 DATE: 12/23/23 DRAWING SERIES NO.  
SCALE: 1"=20' HORIZONTAL SD-1.01

STORM DRAIN MANHOLE		
NO	STATION	TYPE
1	10+67 MEADOWBROOK	P1520, P1424-1, & MAG 522
2	16+63 7TH ST	P1520, P1424-1, & MAG 522
3	13+20 7TH ST	P1520, P1424-1, & MAG 522

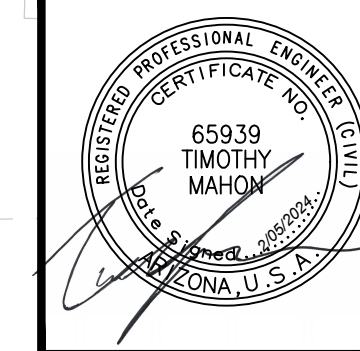
CATCH BASIN & CONNECTOR PIPE				
NO	INLET STATION	INLET TYPE	CONNECTION TYPE	PIPE SIZE LF
1	10+67 MEADOWBROOK	M1, L=6', P1569	MH	18" 14
2	10+67 MEADOWBROOK	M1, L=6', P1569	MH	18" 20
3	13+92 7TH ST	M1, L=6', P1569	TEE P1577	15" 42
4	11+36 MINNEZONA	M1, L=6', P1569	PREFAB TEE	15" 7

REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION

AMERICAN RESCUE PLAN ACT  
LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS - MARICOPA CO.

CATCH BASIN & CONNECTOR PIPE					
NO	INLET STATION	INLET TYPE	CONNECTION TYPE	PIPE SIZE	LF
5	12+99 MEADOWBROOK	M1, L=6' P1569	MH	18"	19
6	14+08 MEADOWBROOK	M1, L=6' P1569	MH	18"	17
7	14+08 MEADOWBROOK	M1, L=17' P1569	MH	18"	20
8	17+17 MEADOWBROOK	M1, L=6' P1569	MH	15"	17
9	17+17 MEADOWBROOK	M1, L=17' P1569	MH	15"	20

STORM DRAIN MANHOLE		
NO	STATION	TYPE
4	11+48 8TH ST	P1520, P1424-1, & MAG 522
5	13+30 8TH ST	P1520, P1424-1, & MAG 522
6	14+08 MEADOWBROOK	P1520, P1424-1, & MAG 522
7	17+17 MEADOWBROOK	P1520, P1424-1, & MAG 522

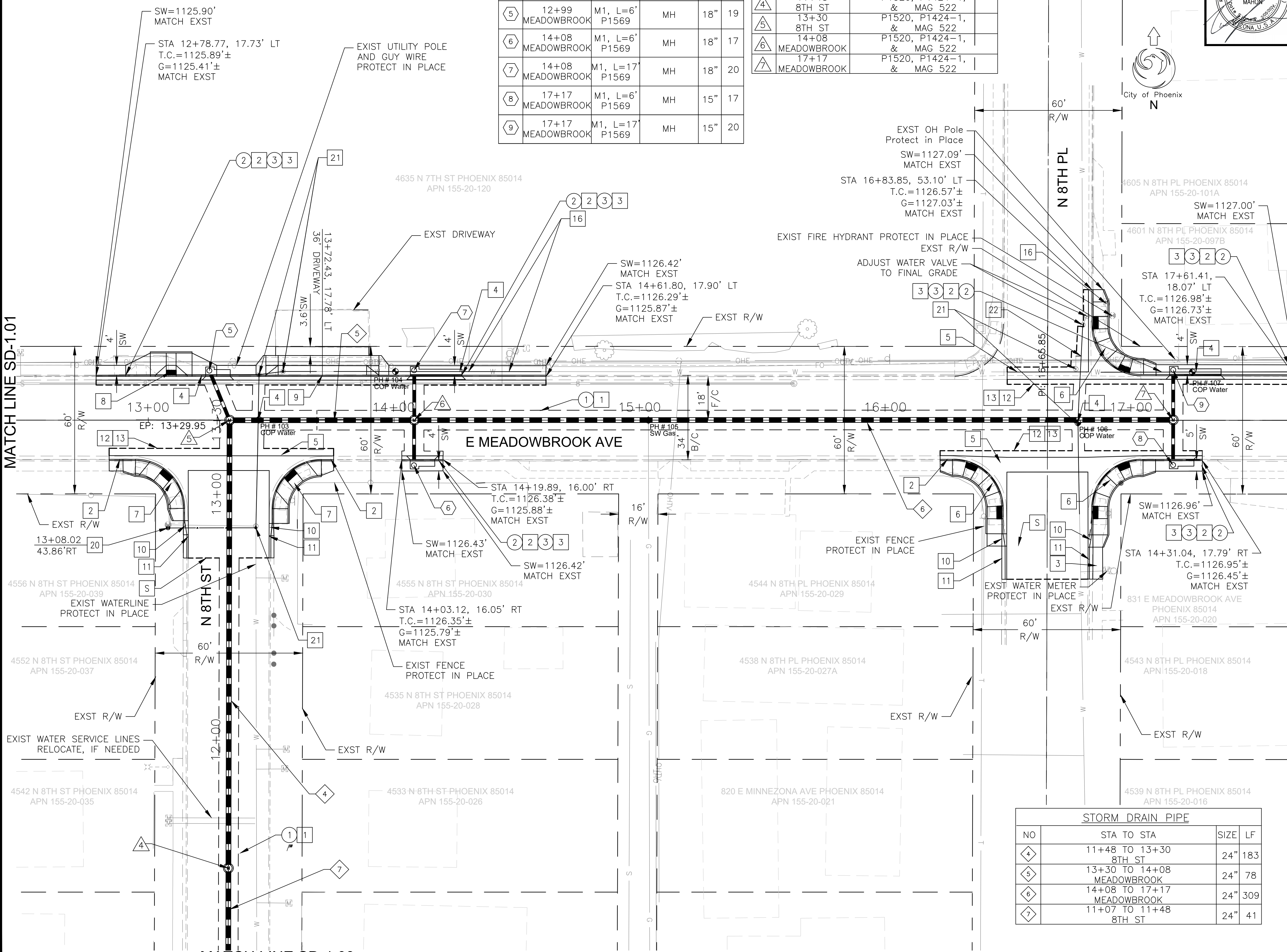


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140119	7	50	

DATE: 12/23  
DRAWN: LNB DESIGN: CJR CHECKED: TMM

REMOVAL/RELOCATION NOTES			
NO	DESCRIPTION	UNIT	QTY
1	REMOVE ASPHALT CONCRETE PAVEMENT	SY	593
2	REMOVE PORTLAND CEMENT CONCRETE CURB AND GUTTER	LF	505
3	REMOVE CONCRETE SIDEWALK	SF	2857

CONSTRUCTION NOTES			
NO	DESCRIPTION	UNIT	QTY
1	TRENCH REPAIR REPLACEMENT PER COP SPEC 336 & COP STD DET P1200	SY	521
2	CONCRETE CURB AND GUTTER, MAG STD DTL 220-1, TYPE A H-6"	LF	168
3	CONCRETE SIDEWALK, COP STD DTL P1230	SF	780
4	WATER RELOCATION PER COP STD DET P-1370; INSTALLATION OF 6" D.I.P. CLASS 350. POLYETHYLENE WRAP, per COP SPECIFICATIONS 750.2 AND MAG SPECIFICATIONS SECTION 610.6.2 & 610.6.3	EA	5
5	CONCRETE VALLEY GUTTER & APRON, M.A.G. DET. 240	SF	1213
6	20'R - RADIAL COMBINATION CURB RAMP, COP STD DTL P1237	SF	925
7	20'R - RADIAL PARALLEL CURB RAMP, COP STD DTL P1240-1	SF	493
8	MIDBLOCK CURB RAMP, COP STD DTL P1241-1	SF	309
9	DRIVEWAY ENTRANCE - TYPE 1, COP STD DTL P1255-1	SF	434
10	ROLL CURB AND GUTTER TRANSITION, M.A.G. DET. 221	LF	21
11	CONCRETE CURB AND GUTTER, MAG STD DTL 220-1, TYPE C H-4"	LF	40
12	SAWCUT, REMOVE, AND REPLACE AC PAVEMENT PER MAG DET 200-1, TYPE A	SY	426
13	SUBGRADE PREPARATION	SY	561
16	WATER SERVICE CONNECTION (MAIN TO METER)	EA	3
20	RELOCATE FIRE HYDRANT, DET. P1360 AND P1362 AND P1359, P1361, AND MAG SPECIFICATION 610 AND COP SUPPLEMENTAL 756	EA	1
21	RELOCATE WATER VALVE	EA	4
22	INSTALL 6" X 6" TEE PER MAG DET 303-1 AND 303-2 MECHANICAL JOINT RESTRAINT	EA	1



STORM DRAIN PIPE			
NO	STA TO STA	SIZE	LF
4	11+48 TO 13+30 8TH ST	24"	183
5	13+30 TO 14+08 MEADOWBROOK	24"	78
6	14+08 TO 17+17 MEADOWBROOK	24"	309
7	11+07 TO 11+48 8TH ST	24"	41

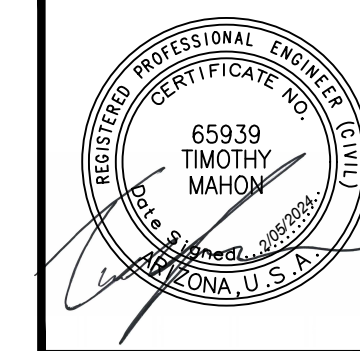
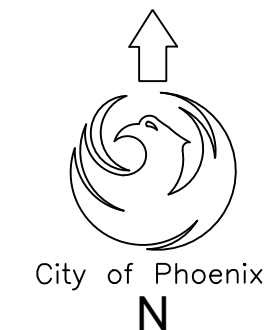
REVISION BY	DESCRIPTION	DATE

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

**DRAINAGE PLANS**  
CITY OF PHOENIX, ARIZONA  
STREET TRANSPORTATION DEPARTMENT  
CANAL NORTH  
7TH ST AND MINNEZONA AVE  
ST83140119

DR: LNB DES: CJR CK: TMM  
DATE: 12/23 DATE: 12/23 DATE: 12/23  
SCALE: 1"=20' HORIZONTAL DRAWING SERIES NO. SD-1.02

AMERICAN RESCUE PLAN ACT  
 LOCAL DRAINAGE MITIGATION PROGRAM  
 PHOENIX STREETS - MARICOPA CO.



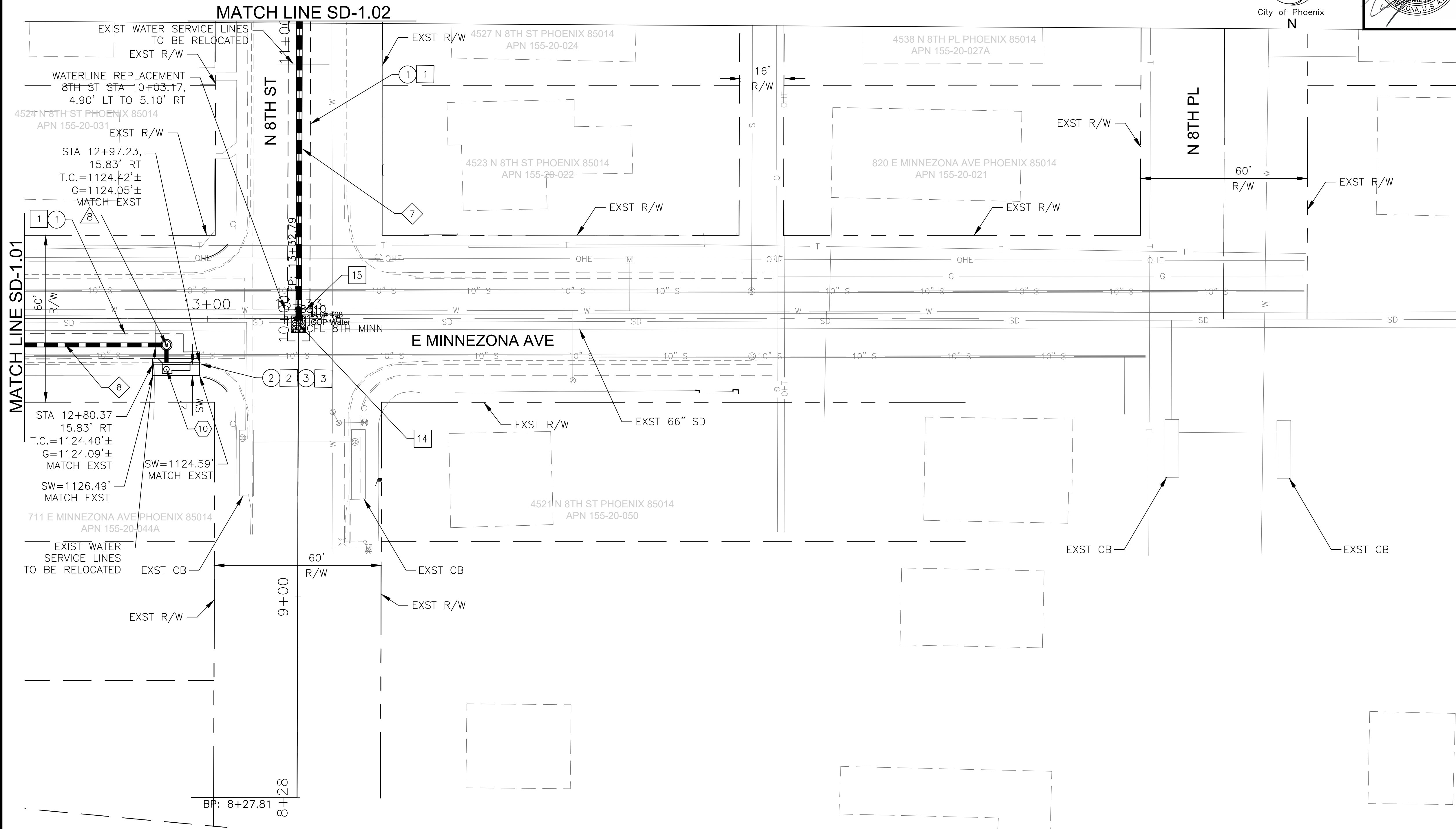
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140119	8	50	
DATE: 12/23		DRAWN: LNB		DESIGN: CJR	CHECKED: TMM



NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



REMOVAL/RELOCATION NOTES				
NO	DESCRIPTION	UNIT	QTY	
1	REMOVE ASPHALT CONCRETE PAVEMENT	SY	163	
2	REMOVE PORTLAND CEMENT CONCRETE CURB AND GUTTER	LF	17	
3	REMOVE CONCRETE SIDEWALK	SF	69	

CONSTRUCTION NOTES				
NO	DESCRIPTION	UNIT	QTY	
1	TRENCH REPAIR REPLACEMENT PER COP SPEC 336 & COP STD DET P1200	SY	163	
2	CONCRETE CURB AND GUTTER, MAG STD DTL 220, TYPE A H-6"	LF	7	
3	CONCRETE SIDEWALK, COP STD DTL P1230	SF	69	
14	TEE CONNECTION PER COP STD DET P-1577	EA	1	
15	WATER REPLACEMENT; INSTALLATION OF 6" D.I.P. CLASS 350. POLYETHYLENE WRAP, PER COP SPECIFICATIONS 750.2 AND MAG SPECIFICATIONS SECTION 610.6.2 & 610.6.3	EA	1	

STORM DRAIN PIPE			
NO	STA TO STA	SIZE	LF
7	9+99 TO 11+07 8TH ST	24"	108
8	12+21 TO 12+86 MINNEZONA	18"	65

STORM DRAIN MANHOLE		
NO	STATION	TYPE
8	12+86 MINNEZONA	P1520, P1424-1, & MAG 522

CATCH BASIN & CONNECTOR PIPE					
NO	INLET STATION	INLET TYPE	CONNECTION TYPE	PIPE SIZE	LF
10	12+86 MINNEZONA	M1, L=6' P1569	MH	15"	8

S SAWCUT

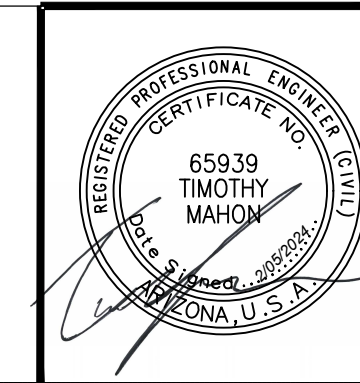
"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

**DRAINAGE PLANS**  
 CITY OF PHOENIX, ARIZONA  
 STREET TRANSPORTATION DEPARTMENT  
 CANAL NORTH  
 7TH ST AND MINNEZONA AVE  
 ST83140119

DR: LNB	DES: CJR	CK: TMM	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	SD-1.03
SCALE: 1"=20' HORIZONTAL			

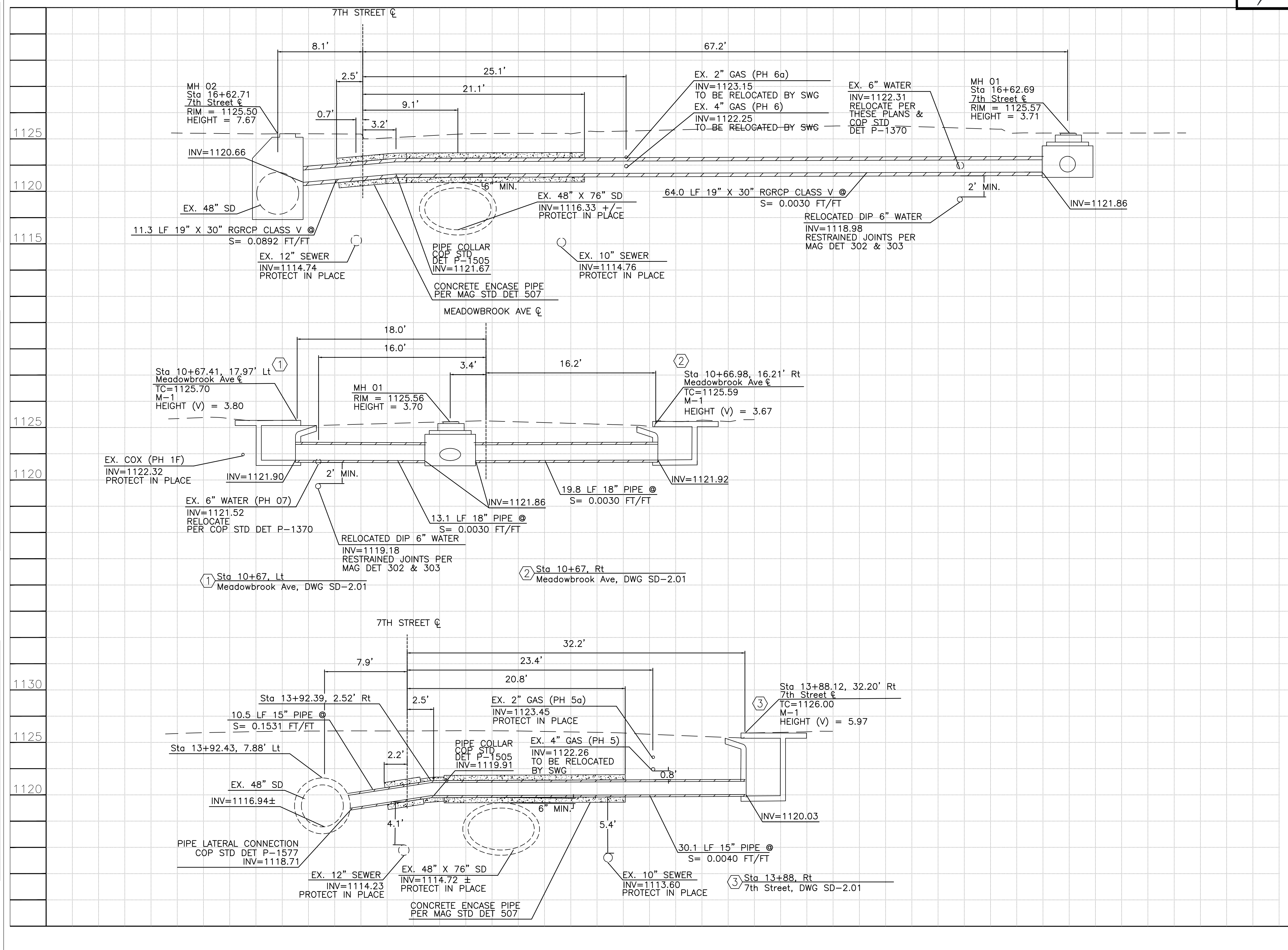


CANAL NORTH  
7TH ST AND MINNEZONA AVE  
PHOENIX STREET - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140119	9	50	
DATE: 11/23		<b>AZTEC</b>		501 N. 44TH ST PHOENIX, AZ 85008 TEL: 602-434-0402 WWW.AZTEC.COM	
DRAWN: JER		DESIGN: CJR		CHECKED: TM	

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



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

**CONNECTOR PIPE PROFILES**

CITY OF PHOENIX, ARIZONA  
STREET TRANSPORTATION DEPARTMENT

**CANAL NORTH  
7TH ST AND MINNEZONA AVE  
ST83140119**

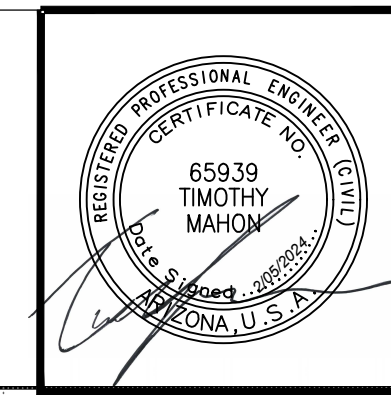
DR: JER | DES: CJR | CK: TM  
DATE: 11/23 | DATE: 11/23 | DATE: 11/23

SCALE: 1"=5' HORIZONTAL  
1"=5' VERTICAL

DRAWING SERIES NO. SD-2.01

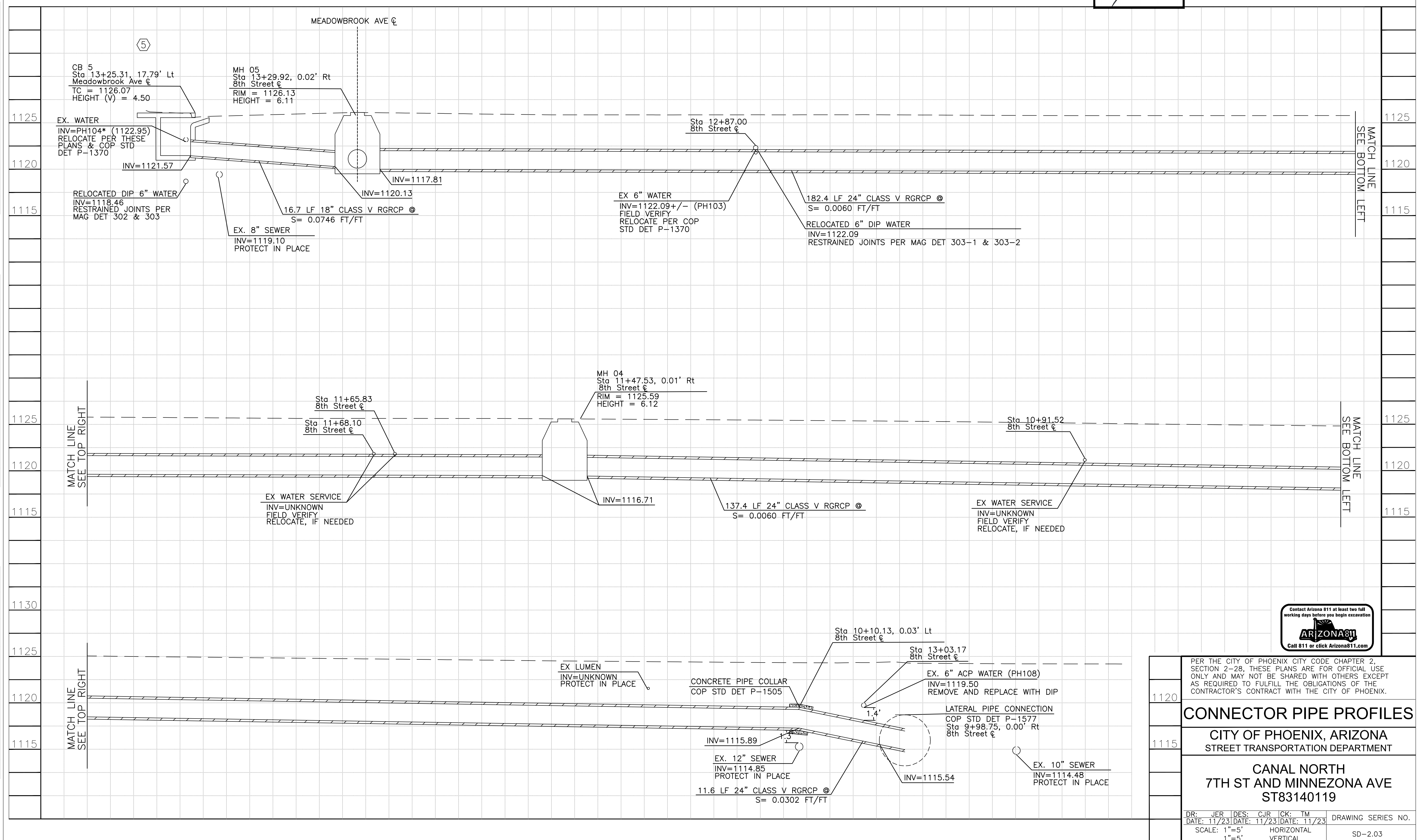


CANAL NORTH  
7TH ST AND MINNEZONA AVE  
PHOENIX STREET - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140119	11	50	
DATE: 11/23					<b>AZTEC</b>
DRAWN: JER					
DESIGN: CJR					CHECKED: TM

NO.	DESCRIPTION	REV BY	CHK BY	DATE



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

**CONNECTOR PIPE PROFILES**

CITY OF PHOENIX, ARIZONA  
STREET TRANSPORTATION DEPARTMENT

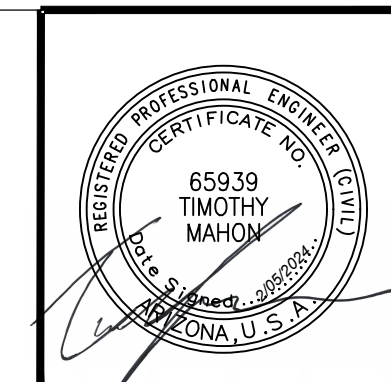
**CANAL NORTH  
7TH ST AND MINNEZONA AVE  
ST83140119**

DR: JER | DES: CJR | CK: TM  
DATE: 11/23 | DATE: 11/23 | DATE: 11/23

SCALE: 1"=5' HORIZONTAL  
1"=5' VERTICAL

DRAWING SERIES NO.  
SD-2.03

CANAL NORTH  
 7TH ST AND MINNEZONA AVE  
 PHOENIX STREET - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
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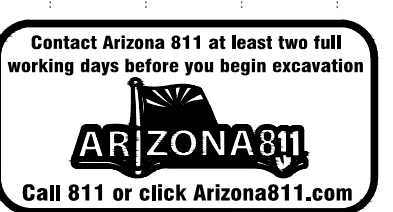
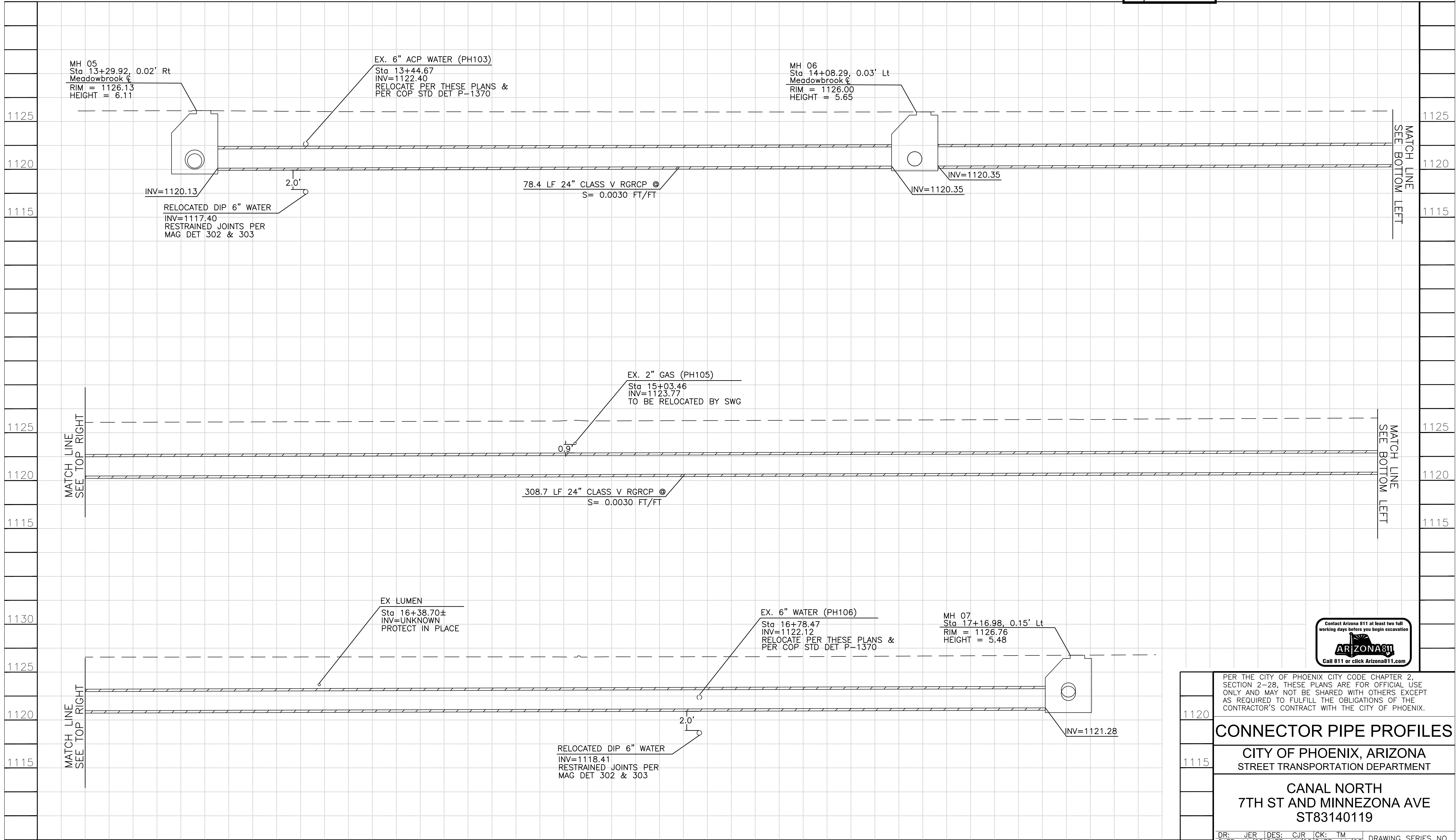
DATE: 11/23	<b>AZTEC</b> 501 N. 44TH ST PHOENIX, AZ 85008 PH: 602-454-4002 www.aztec.com
DRAWN: JER	

DESIGN: CJR	CHECKED: TM
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REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION

REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION

REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION



1120	PER THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.
<b>CONNECTOR PIPE PROFILES</b>	
CITY OF PHOENIX, ARIZONA STREET TRANSPORTATION DEPARTMENT	
CANAL NORTH 7TH ST AND MINNEZONA AVE ST83140119	
DR: JER	DES: CJR
DATE: 11/23	DATE: 11/23
SCALE: 1"=5'	SCALE: 1"=5'
HORIZONTAL	VERTICAL
DRAWING SERIES NO. SD-2.04	

CANAL NORTH  
7TH ST AND MINNEZONA AVE  
PHOENIX STREET - MARICOPA CO.

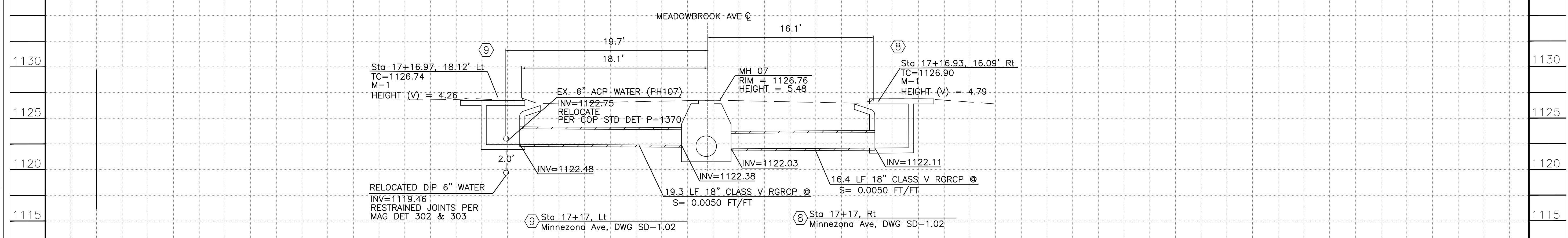
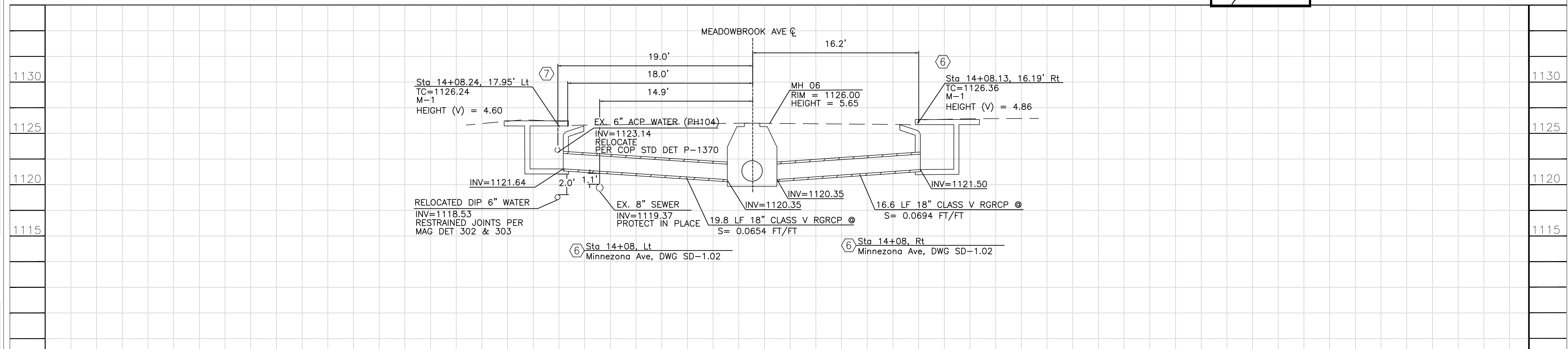


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
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11/23					
DATE:					
DRAWN: JER		DESIGN: CJR		CHECKED: TM	

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



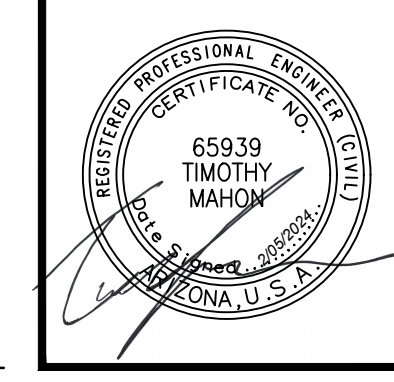
PER THE CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX.

**CONNECTOR PIPE PROFILES**  
CITY OF PHOENIX, ARIZONA  
STREET TRANSPORTATION DEPARTMENT

**CANAL NORTH**  
**7TH ST AND MINNEZONA AVE**  
**ST83140119**

DR: JER	DES: CJR	CHK: TM	DRAWING SERIES NO.
DATE: 11/23	DATE: 11/23	DATE: 11/23	SD-2.05
SCALE: 1"=5'	HORIZONTAL	VERTICAL	
1"=5'			

LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140119	14	50	

12/23  
DATE: 12/23/23  
DRAWN: YED DESIGN: YED CHECKED: JCF

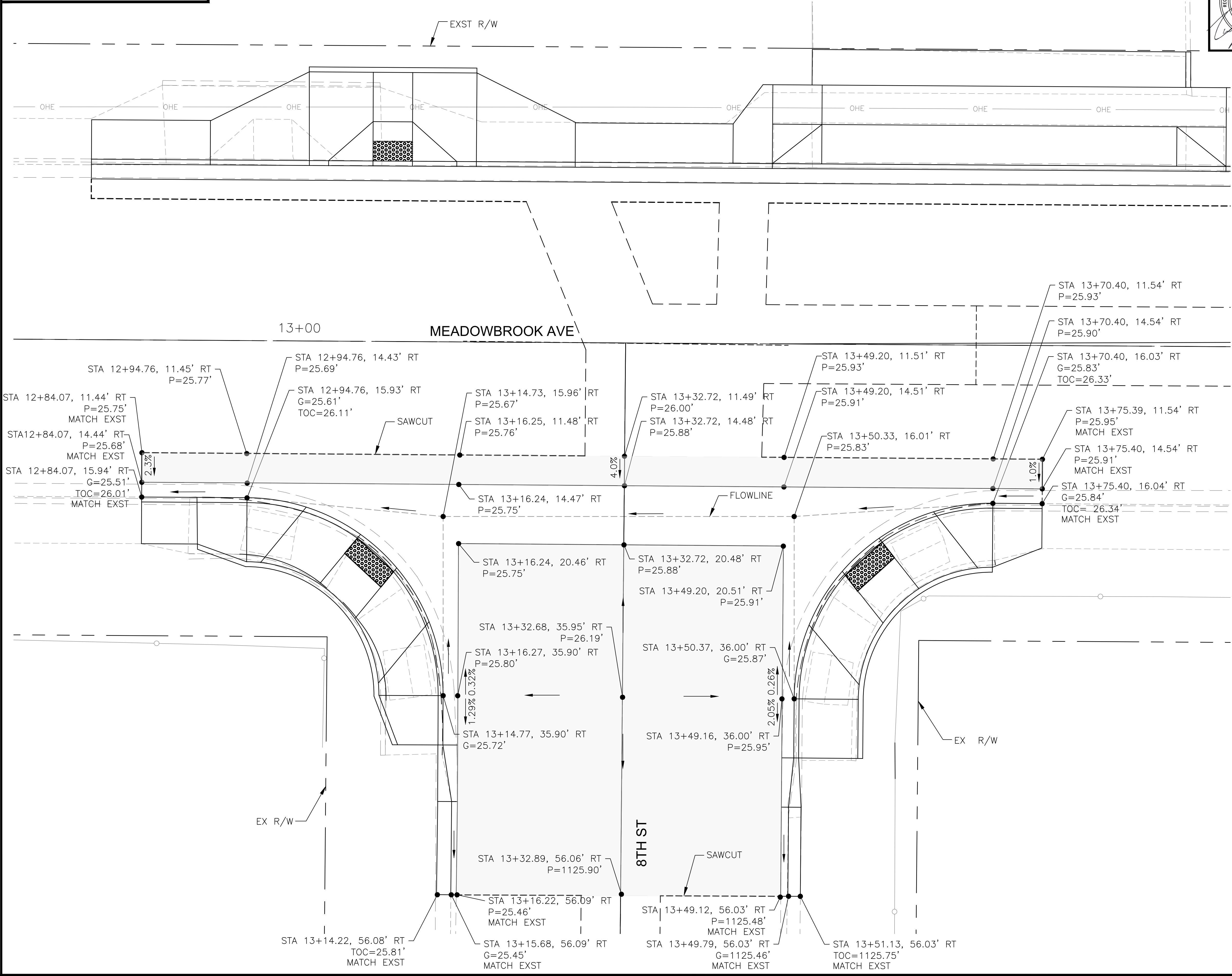
**AZTEC**  
501 N. 44TH ST  
SUITE 300  
PHOENIX, AZ 85008  
PH: 602-454-9402  
WWW.AZTEC.COM



NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

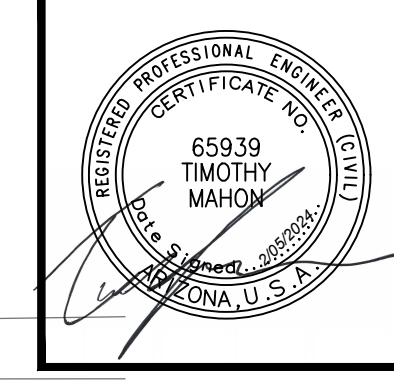


"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

**STAKING DETAIL**  
CITY OF PHOENIX, ARIZONA  
STREET TRANSPORTATION DEPARTMENT  
  
CANAL NORTH  
8TH ST AND MEADOWBROOK AVE  
ST83140119

DR: YED	DES: YED	CHK: JCF	DRAWING SERIES NO.
DATE: 12/23/23	DATE: 12/23/23	DATE: 12/23/23	
SCALE: 1"=5'	HORIZONTAL		DT-1.01

LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140119	15	50	

12/23  
DATE: 12/23/23  
DRAWN: YED DESIGN: YED CHECKED: JCF

REVISION BY CITY OF PHOENIX

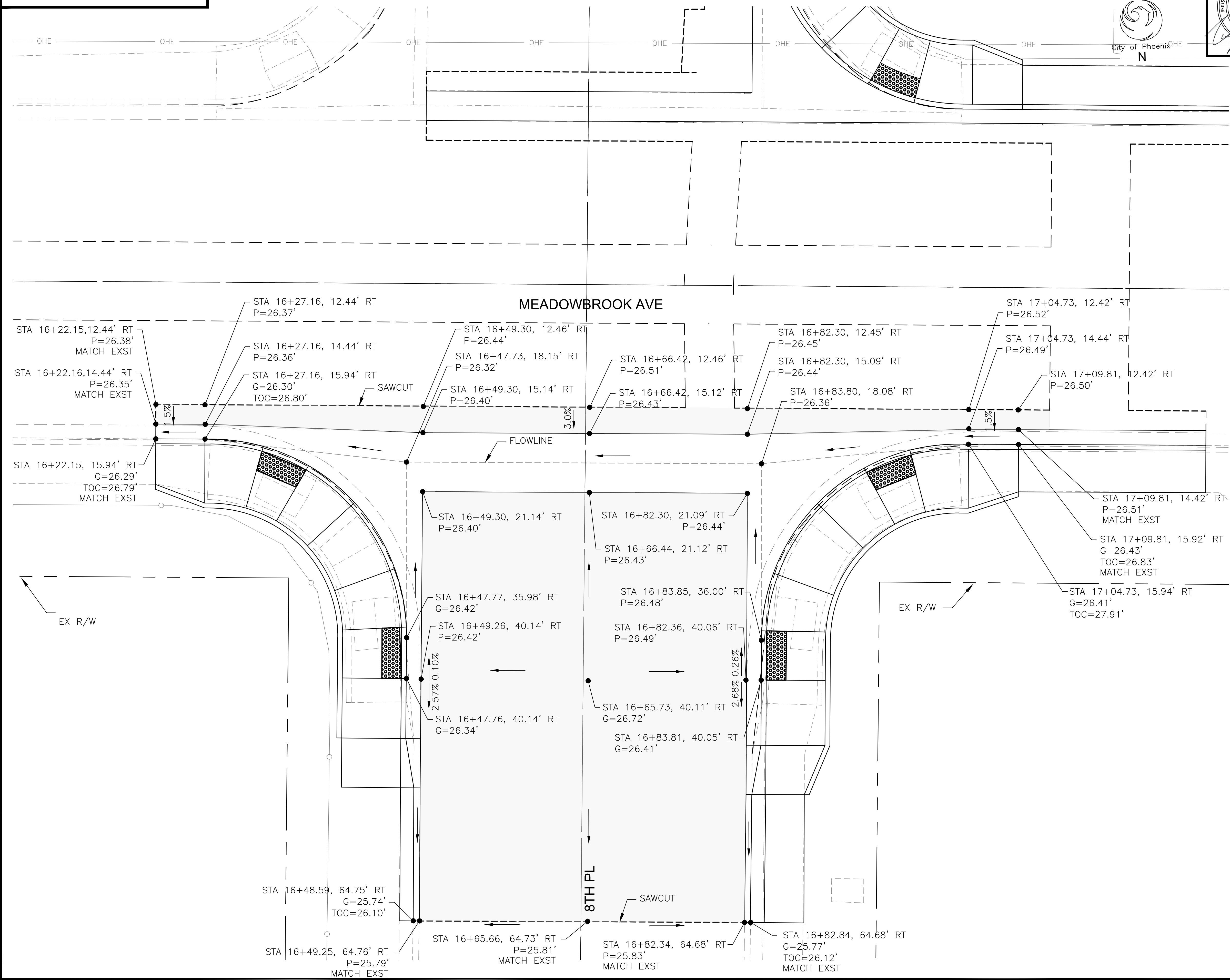
NO.	DESCRIPTION	REV BY	CHK BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE

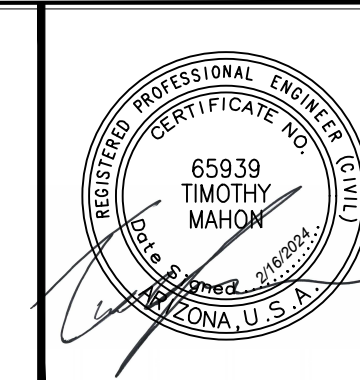


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**STAKING DETAIL**  
CITY OF PHOENIX, ARIZONA  
STREET TRANSPORTATION DEPARTMENT  
**CANAL NORTH**  
**8TH PL AND MEADOWBROOK AVE**  
**ST83140119**

DR: YED	DES: YED	CHK: JCF	DRAWING SERIES NO.
DATE: 12/23/23	DATE: 12/23/23	DATE: 12/23/23	DT-1.02
SCALE: 1"=5' HORIZONTAL			

AMERICAN RESCUE PLAN ACT  
 LOCAL DRAINAGE MITIGATION PROGRAM  
 PHOENIX STREETS - MARICOPA CO.

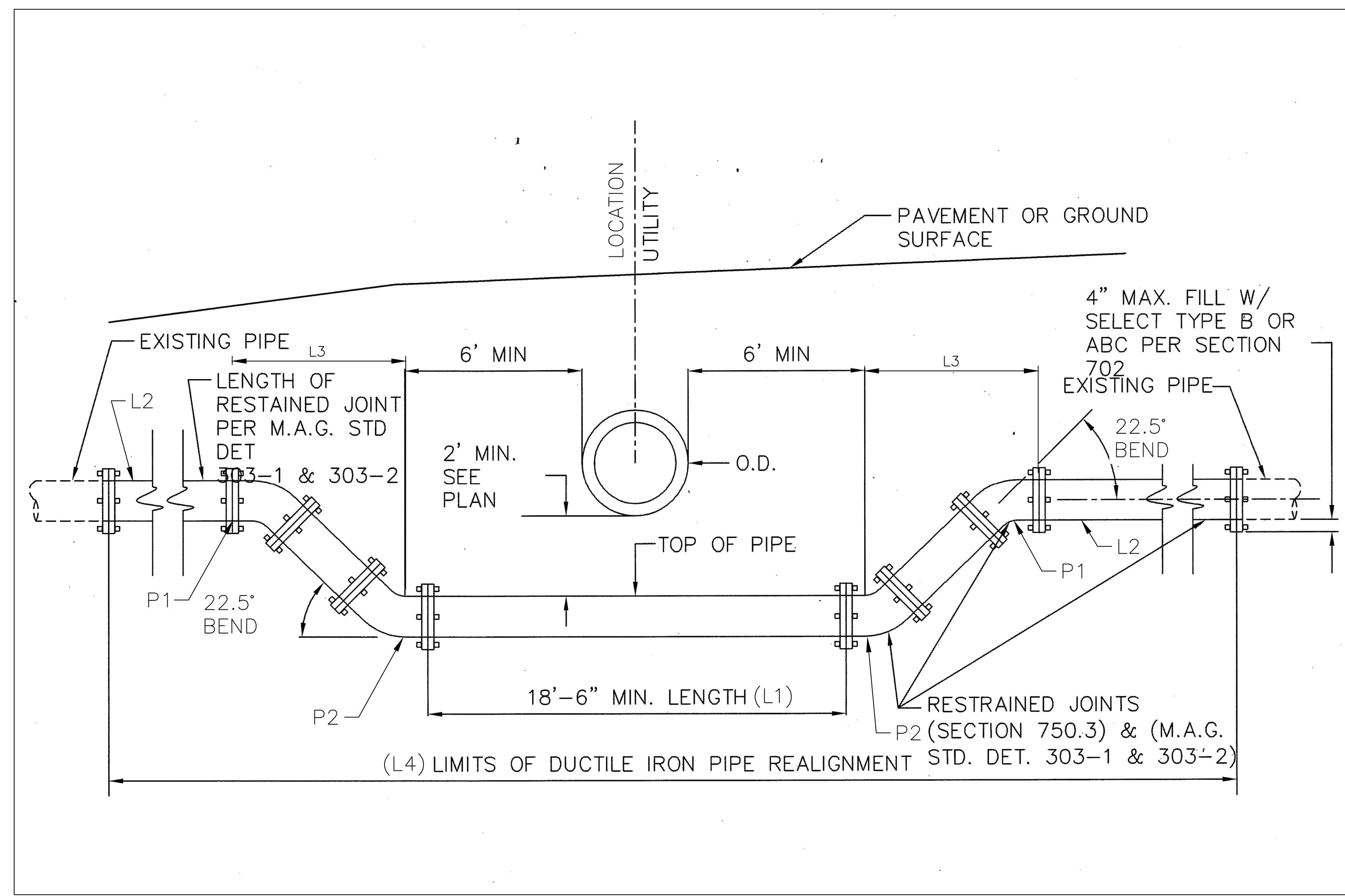


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140119	16	50	
DATE: 12/23		<b>AZTEC</b>		501 N. 44TH ST SUITE 300 PHOENIX, AZ 85008 PH: 602-454-0402 www.Aztec.us	
DRAWN: LNB	DESIGN: CJR	CHECKED: TMM			

NO.	DESCRIPTION	REV BY	CHK BY	DATE

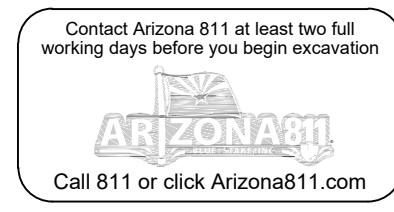
NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



MODIFIED P-1370 WATERLINE REALIGNMENT (22.5 DEGREE ANGLE)

Location	P1 Elevation (ft)	P2 Elevation (ft)	L1 (ft)	L2 (ft)	L3 (ft)	L4 (ft)
MEADOWBROOK &						
Sta 10+67.33, 15.84' Lt	1121.52±	1119.18±	18.50	20.00	5.65	74.58
Sta 13+28.33, 18.42' Lt	1122.95±	1118.46±	18.50	20.00	10.84	80.18
Sta 13+44.67, 0.03' Rt	1122.40±	1117.40±	18.50	20.00	12.07	59.86
Sta 14+15.07, 19.77' Lt	1123.14±	1118.53±	21.00	20.00	11.13	83.26
Sta 16+78.23, 0.07' Lt	1122.12±	1118.41±	18.50	20.00	8.96	76.42
Sta 17+25.97, 19.62' Lt	1122.75±	1119.46±	21.00	20.00	7.94	76.88



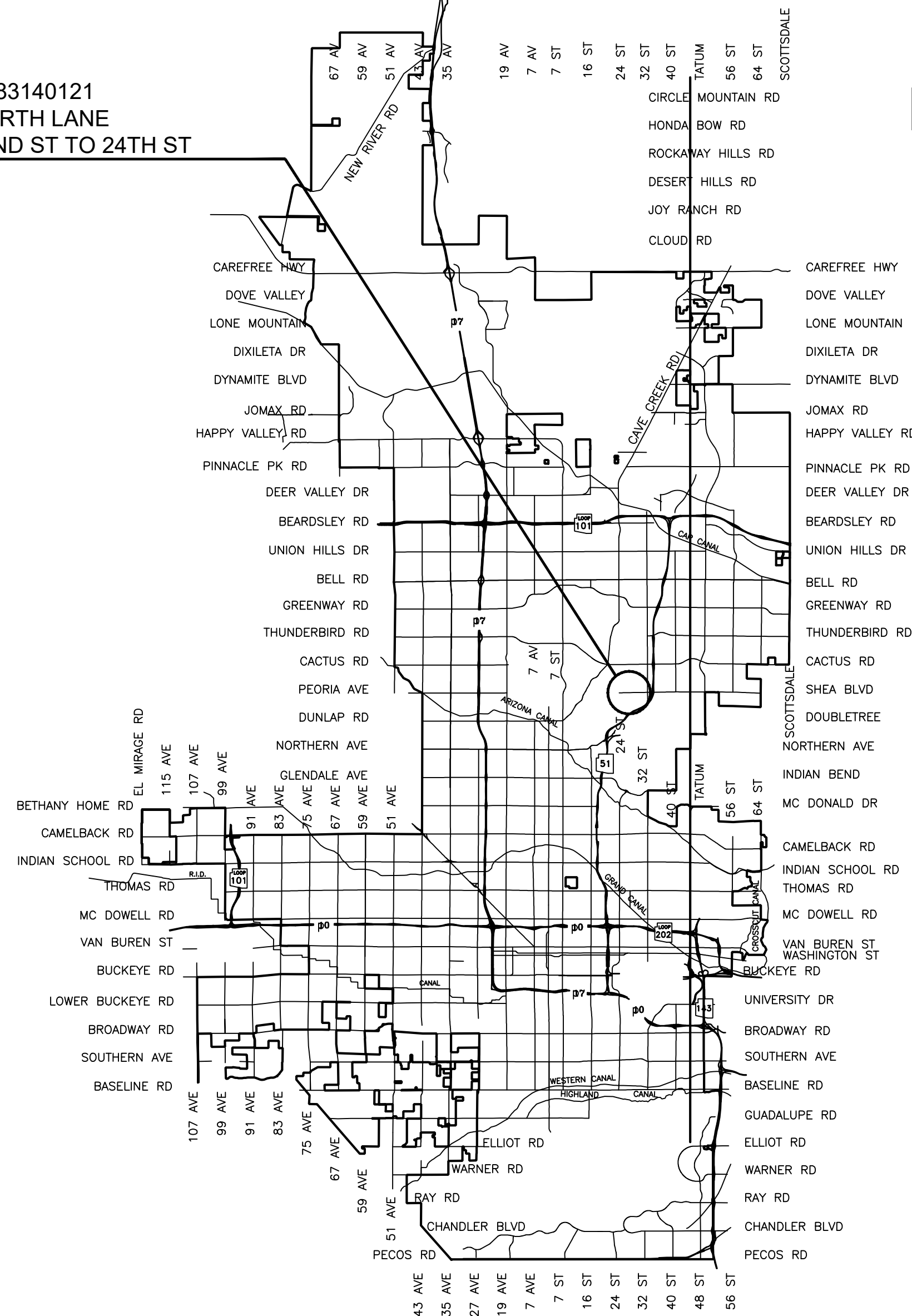
"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

**WATERLINE RELOCATION**  
**CITY OF PHOENIX, ARIZONA**  
 STREET TRANSPORTATION DEPARTMENT  
**CANAL NORTH**  
 4TH ST AND MINNEZONA AVE  
 ST8314011

DR: LNB	DES: CJR	CHK: TMM	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	SDD-1.01
SCALE: HORIZONTAL			



ST83140121  
NORTH LANE  
22ND ST TO 24TH ST



 **VICINITY MAP**  
NTS

**CITY OF PHOENIX**  
**STREET TRANSPORTATION DEPARTMENT**  
**DESIGN CONSTRUCTION MANAGEMENT DIVISION**  
**AMERICAN RESCUE PLAN ACT**  
**LOCAL DRAINAGE MITIGATION PROJECT PACKAGE 1**

**NORTH LANE**  
**22ND STREET TO 24TH STREET**  
**ST83140121**

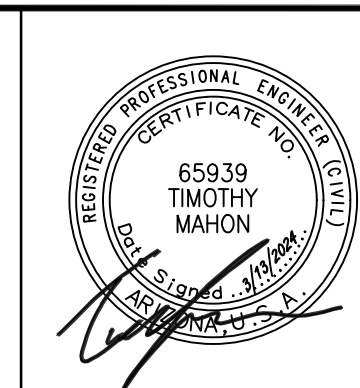


**2024**

**CITY BENCHMARKS**

▲ COP BRASS CAP IN HAND HOLE, AT THE INTERSECTION OF 24TH ST AND SHEA BOULEVARD  
EL 1 86.33 NGVD 2

LENGTH OF PROJECT: MOUNTAIN PRESERVE = 1727 LF  
AREA OF DISTURBANCE = 1.65 ACRES



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST83140121	17	50	

**AZTEC**  
501 N. 44TH ST  
SUITE 300  
PHOENIX, AZ 85008  
PH: 602-498-0402  
WWW.AZTEC.COM

DRAWN: LNB | DESIGN: CJR | CHECKED: TMM | DATE: 12/23

**MAYOR**  
KATE GALLEGO  
**CITY MANAGER**  
JEFFREY BARTON  
**CITY COUNCIL**

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

**INDEX OF SHEET**

SHEET NO.	DWG. SERIES NO.	SHEET TITLE
1	G 0.01	COVER
2	G 1.01	LEGEND AND NOTES
3 4	G 2.01 G 2.02	GEOMETRIC CONTROL SHEET
	G 3.01	ANTITY S MMARY
6	GD 1.01 GD 1.04	GRADING AND DRAINAGE PLAN SHEETS
10	SDD 1.01	DRAINAGE DETAIL SHEET
11 14	LS 1.01 LS 1.04	PLANT SALVAGE PLAN
1 16	LS 2.01 LS 2.02	PLANT DATA TABLES

APPROVED *Nazar Nabaty* 6/4/2024  
NAZAR NABATY, FLOODPLAIN ADMINISTRATOR DATE

APPROVED *Eric Froberg* 6/4/2024  
ERIC FROBERG, P.E., CITY ENGINEER DATE

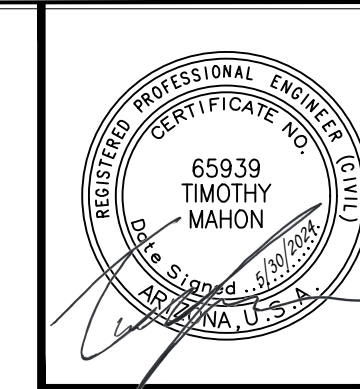


"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2.28, THESE PLANS ARE FOR OFFICIAL USE ONLY. MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX."

ST83140121 NORTH LANE 22ND ST TO 24TH ST 100 S BMITTAL

**LEGEND AND NOTES**

**NOTES**



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140121	18	50	
12/23		<b>AZTEC</b>		501 N. 44th ST SUITE 200 PHOENIX, AZ 85008 PH: 602-454-9402 www.Aztec.com	
DATE:		DRAWN: LNB		DESIGN: CJR	CHECKED: TMM

REVISION BY	DESCRIPTION	DATE

REVISION BY	DESCRIPTION	DATE

REVISION BY	DESCRIPTION	DATE

- LEGEND**
- ▲ BENCHMARK
  - NEW SURVEY MONUMENT – M.A.G. DETAIL 120-1 TYPE "B"
  - ◻ NEW SURVEY MONUMENT – M.A.G. DETAIL 120-1 TYPE "A"
  - ===== COMBINED CURB & GUTTER – M.A.G. DETAIL 220 TYPE "A"
  - ▭ BACKFILL TYPE & SQ. YD. PVMT. REPLACEMENT – C.O.P. DETAIL P1200
  - ▨ EXISTING CONCRETE PAVEMENT OR SIDEWALK
  - ▩ NEW CONCRETE SIDEWALK – STD. DETAIL P1230
  - ▩ NEW CONCRETE DRIVEWAY OR ALLEY ENT. PER DETAIL NO. ON PLANS
  - ▭ NEW CONCRETE SIDEWALK RAMP PER DETAIL ON PLANS
  - ∇ AVERAGE GROUND ELEVATION AT R/W LINE
  - ◇ BACKFILL COMPACTION TYPE
  - EXISTING DITCH
  - 24" IRR (SRP)— EXISTING IRRIGATION LINE W/SIZE (NOTE PRIVATE, SALT RIVER OR R.I.D.)
  - EXISTING IRRIGATION STRUCTURE
  - EXISTING IRRIGATION STANDPIPE
  - NEW IRRIGATION STANDPIPE – M.A.G. DETAIL 503
  - NEW IRRIGATION VALVE – M.A.G. DETAIL 506 W/ CONC. SCOURING BASIN
  - IRRIGATION BERM
  - NEW IRRIGATION STRUCTURE PER DETAIL ON PLANS
  - 12" DIP W— EXISTING WATER LINE W/SIZE & TYPE (12" AND SMALLER)
  - 36" DIP W— EXISTING WATER LINE W/SIZE & TYPE (GREATER THAN 12")
  - ADJUST EXIST. WATER VALVE BOX – C.O.P. DETAIL P1391
  - 3/4" W— WATER SERVICE W/SIZE AND WATER METER BOX
  - EXISTING FIRE HYDRANT
  - NEW OR RELOCATED FIRE HYDRANT BY CONTRACTOR
  - T.N.— EXISTING WATER VALVE W/TOP OF OPERATING NUT ELEVATION
  - 8" VCP S— EXISTING SANITARY SEWER LINE W/SIZE & TYPE (12" AND SMALLER)
  - 30" VCP S— EXISTING SANITARY SEWER LINE W/SIZE & TYPE (GREATER THAN 12")
  - EXISTING MANHOLE
  - M— NEW MANHOLE
  - CATCH BASIN, GUTTER INLET (LENGTH TO SCALE)
  - CATCH BASIN, CURB INLET (LENGTH TO SCALE)
  - CATCH BASIN, CURB & GUTTER INLET (LENGTH TO SCALE)
  - SD— EXISTING STORM DRAIN LINE W/SIZE & TYPE (GREATER THAN 12")
  - NEW PIPE FOR STORM DRAIN OR IRRIGATION LINE
  - 4" G— EXISTING GAS LINE W/SIZE
  - E— EXISTING UNDERGROUND ELECTRIC CABLE OR SINGLE CONDUIT
  - E-40— EXISTING UNDERGROUND ELECTRIC DUCT (SPECIFY NUMBER)
  - EXISTING TELEPHONE BURIED CABLE OR SINGLE CONDUIT
  - EXISTING UNDERGROUND TELEPHONE DUCT (SPECIFY NUMBER)
  - CATV— EXISTING UNDERGROUND CABLE TV
  - FO— EXISTING UNDERGROUND FIBER OPTIC LINE
  - EXISTING TRAFFIC SIGNAL POLE W/MAST ARM & SIGNAL INDICATIONS
  - EXISTING STREET OR TRAFFIC SIGN
  - EXISTING UTILITY POLE W/LINE INDICATING WIRE DIRECTION
  - EXISTING WIRE FENCE
  - EXISTING BLOCK FENCE
  - EXISTING WOOD FENCE
  - MAIL BOX
  - EXISTING POWER POLE DOWN GUY ANCHOR
  - EXISTING STREET LIGHT & POLE
  - EXISTING TREE OR STUMP TO BE REMOVED – MORE THAN 12" DIA.
  - EXISTING TREE TO BE TRANSPLANTED BY CONTRACTOR
  - EASEMENT LINE
  - EXISTING OR NEW R/W LINE
  - PAVEMENT CENTER LINE OR MONUMENT LINE
  - EXISTING TREE OR STUMP TO BE REMOVED 12" DIA. OR LESS (NON PAY ITEM)
  - EXISTING TREE TO REMAIN

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 FIND 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 1929.
5. ALL EXISTING DRIVEWAYS AND ALL EXISTING ALLEYS SHALL BE GRADED TO MATCH THE NEW WORK IN ACCORDANCE WITH STD DETAIL P1164, UNLESS OTHERWISE SPECIFIED. EXISTING SURFACING SHALL BE REMOVED AND REPLACED AS NECESSARY.
6. NO ENCROACHMENT INTO PRIVATE PROPERTY SHALL OCCUR FOR CONSTRUCTION, CONSTRUCTION ACCESS, OR OTHER CONSTRUCTION ACTIVITIES.
7. THE CONTRACTOR SHALL PROTECT IN PLACE EXISTING CACTI AND TREES WITHIN THE PROJECT LIMITS.
8. ALL WORK SHALL BE STABILIZED WITH REQUIRED STORMWATER PROTECTION MEASURES AND EROSION PROTECTION MEASURES PER THE CITY OF PHOENIX STANDARD SPECIFICATIONS.
9. NO FOREIGN DIRT, BORROW, OR ROCK SHALL BE USED ON THE PROJECT. ALL GRADING SHALL USE NATIVE MATERIALS DEVELOPED FROM GRADING OF DITCHES AND BERMS.
10. DRAINAGE BERMS SHALL BE COMPACTED TO 95% DENSITY.
11. NO DEBRIS, ORGANICS, OR LARGE ROCK SHALL BE USED IN BERM. ROCK SHALL BE CRUSHED TO 3" MINUS FOR USE IN BERM CONSTRUCTION.
12. CONTRACTOR SHALL RESTORE LANDSCAPING TO EXISTING CONDITION TO ALL WORK AREAS ON THE PROJECT.
13. A GRADING PERMIT IS REQUIRED UNDER PCC CHAPTER 32A.
14. WHEN HAUL PERMITS ARE REQUIRED, THEY MUST BE OBTAINED PRIOR TO OR CONCURRENTLY WITH THE G&D PERMIT.
15. EXCAVATING CONTRACTOR MUST GIVE LOCATION FOR WASTING EXCESS EXCAVATION AND A LETTER FROM OWNER GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ON-SITE CONSTRUCTION. IF EXCESS EXCAVATION EXCEEDS 100 CUBIC YARDS, THE DISPOSAL SITE WILL ALSO REQUIRE A G&D PERMIT.
16. PLANNING & DEVELOPMENT DEPARTMENT FIELD INSPECTION GROUP SHALL BE NOTIFIED 48 HOURS BEFORE ANY ON-SITE AND/OR OFF-SITE CONSTRUCTION BEGINS, TELEPHONE (602) 262-7811 OR 7-1-1 (TTY).
17. STAKING BUILDING PAD ELEVATIONS IS THE RESPONSIBILITY OF THE OWNER AND HIS PROFESSIONAL ENGINEER. THE OWNER'S PROFESSIONAL ENGINEER SHALL SUBMIT THREE SEALED COPIES OF THIS GRADING AND DRAINAGE PLAN DESIGNATED AS "RECORD DRAWING" (BEARING AN ORIGINAL SIGNATURE) PRIOR TO THE REQUEST FOR FINAL INSPECTION.
18. STAKING FINISH FLOOR ELEVATIONS IS THE RESPONSIBILITY OF THE OWNER AND HIS PROFESSIONAL ENGINEER. THE OWNER'S PROFESSIONAL ENGINEER SHALL SUBMIT THREE SEALED COPIES OF THIS GRADING AND DRAINAGE PLAN DESIGNATED AS "RECORD DRAWING" (BEARING AN ORIGINAL SIGNATURE) PRIOR TO THE REQUEST FOR FINAL INSPECTION.
19. A FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) ELEVATION CERTIFICATE BASED ON FINISHED CONSTRUCTION MUST BE REVIEWED AND APPROVED BY FLOODPLAIN MANAGEMENT FOR EACH NEW AND SUBSTANTIAL IMPROVEMENT STRUCTURE CONSTRUCTED IN A SPECIAL FLOOD HAZARD AREA (SFHA) PRIOR TO ISSUING A CERTIFICATE OF OCCUPANCY. A COPY OF THE ELEVATION CERTIFICATE MUST BE SUBMITTED TO THE GENERAL OR STRUCTURAL INSPECTOR.
20. BUILDING PAD CERTIFICATIONS WILL BE REQUIRED ON ALL LOTS WITHIN THE SUBDIVISION AND SUBMITTED TO THE CIVIL/SITE INSPECTOR PRIOR TO ANY CONCRETE CONSTRUCTED IN THE R/W. BUILDING PAD CERTIFICATION CAN BE SUBMITTED TO THE CIVIL/SITE INSPECTOR BY EITHER SUBMITTING ONE APPROVED BLACK-LINE AS-BUILT GRADING AND DRAINAGE PLAN OR IN LETTER FORMAT SHOWING THE DESIGN AND AS-BUILT BUILDING PAD ELEVATIONS AS SHOWN ON THE APPROVED GRADING AND DRAINAGE PLAN. IT IS REQUIRED THAT THE AS-BUILT PLAN AND LETTER BE SEALED BY A CIVIL PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA.
21. A SEPARATE PERMIT IS NECESSARY FOR ANY OFFSITE CONSTRUCTION. AN APPROVED G&D PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
22. G&D PLAN APPROVAL INCLUDES THE CONSTRUCTION OF ALL SURFACE IMPROVEMENTS SHOWN ON THE APPROVED PLAN, INCLUDING, BUT NOT LIMITED TO, RETENTION AREAS, SEDIMENTATION BASINS, AND/OR OTHER DRAINAGE FACILITIES, DRAINAGE PATTERNS, WALLS, CURBS, ASPHALT PAVEMENT, AND BUILDING FLOOR ELEVATION.
23. GRADES SHOWN IN RETENTION BASINS ARE DESIGN FINISHED GRADES. SHOULD THE CONTRACTOR OR ANY SUB- CONTRACTOR PLAN TO PLACE SPOIL DIRT FROM FOOTINGS, UTILITY TRENCHES, LANDSCAPING, SWIMMING POOLS, ETC. IN THE BASINS, THE BASINS SHOULD BE SUFFICIENTLY OVER-EXCAVATED DURING THE ROUGH GRADING OPERATION TO ALLOW FOR THE PLACEMENT OF THE FILL OR LANDSCAPING MATERIALS.
24. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING DEPTHS OF ALL THE EXISTING UTILITY LINES WITHIN PROPOSED RETENTION BASIN AREAS. IF THE BASIN CANNOT BE CONSTRUCTED PER PLAN BECAUSE OF CONFLICTS, THE CONTRACTOR SHOULD DISCUSS MODIFICATION OF BASIN CONFIGURATION WITH THE CITY INSPECTOR TO DETERMINE IF A PLAN REVISION OR A FIELD CHANGE IS REQUIRED.
25. ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTOR DITCHES, PIPES, PROTECTIVE BERMS, BARRIER WALLS, CONCRETE CHANNELS, OR OTHER MEASURES DESIGNED TO PROTECT ADJACENT BUILDINGS OR PROPERTY FROM STORM RUNOFF MUST BE COMPLETED PRIOR TO BUILDING CONSTRUCTION.
26. PER SECTION 6.8.7 OF THE CITY STORM WATER POLICIES AND STANDARDS, SIDE SLOPES OF STORM WATER STORAGE FACILITIES SHALL BE NO STEEPER THAN 5:1 FOR IRRIGATED GRASS AREAS AND 3:1 FOR LANDSCAPE AREAS. SLOPE STABILIZATION MEASURES ARE REQUIRED FOR ALL SLOPES GREATER THAN 5:1. THE SLOPE STABILIZATION MEASURES MUST BE READILY MAINTAINABLE USING COMMON MAINTENANCE EQUIPMENT AND BE DESIGNED WITH CONSIDERATION TO AESTHETICS. THE SLOPE STABILIZATION MEASURES SHALL BE CONSISTENT WITH COMMONLY USED ENGINEERING PRACTICES. UN-STABILIZED DECOMPOSED GRANITE IS NOT ALLOWED ON SLOPES GREATER THAN 5:1.
27. ALL RETAINING WALLS ARE TO BE REVIEWED, PERMITTED, AND INSPECTED BY THE BUILDING SAFETY BRANCH OF THE PLANNING & DEVELOPMENT DEPARTMENT. ALL RETAINING WALLS ARE TO BE IN ACCORDANCE WITH SECTION 703 OF THE ZONING ORDINANCE AND SECTION 32-32 OF THE SUBDIVISION ORDINANCE FOR SPECIFIC WALL HEIGHT REQUIREMENTS. NOTE: USE PERMIT FOR IS REQUIRED FOR ALL OVER-HEIGHT RETAINING WALLS.
28. ALL RAMPS MUST MEET 2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN AND CITY OF PHOENIX SUPPLEMENT TO MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS; 2% MAX CROSS SLOPES AND 12:1 MAX LONGITUDINAL SLOPES.
29. CERTIFICATE OF OCCUPANCY (C OF O) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS DENIED UNTIL ALL G&D IMPROVEMENTS ARE COMPLETED.
30. EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE R/W SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
31. 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.
32. 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.
33. CONSTRUCTION WITHIN THE R/W SHALL CONFORM TO THE LATEST APPLICABLE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS.
34. OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE R/W SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
35. THE ACTUAL POINT OF PAVEMENT MATCHING AND/OR TERMINATION SHALL BE DETERMINED IN THE FIELD BY THE CITY PLANNING & DEVELOPMENT DEPARTMENT FIELD INSPECTOR.
36. TREES AND SHRUBBERY IN THE R/W THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE CITY LANDSCAPE ARCHITECT OR HIS ASSIGNEES. THE PERMITTEE SHALL BE RESPONSIBLE FOR OBTAINING AUTHORIZATION TO REMOVE AND/OR RELOCATE SAID TREES OR SHRUBBERY BY CALLING THE PARKS AND RECREATION DEPARTMENT AT (602) 262-6501 AND TRANSPORTATION DEPARTMENT AT (602) 534-9898.
37. PER THE STREET PAVEMENT CUT POLICY (TRT 00164) AND CITY ORDINANCE G-6308, ALL STREET PAVEMENT CUTS WILL REQUIRE ASPHALT RESURFACING TREATMENTS BASED ON THE AGE OF THE PAVEMENT. FOR STREETS LESS THAN TWO (2) YEARS OLD, THE PERMITTEE MUST APPLY AN ASPHALT MILL AND OVERLAY PAVEMENT TREATMENT. FOR STREETS GREATER THAN TWO (2) YEARS OLD, THE PERMITTEE MUST APPLY A SLURRY SEAL AND/OR MICROSEAL TREATMENT.
38. CONSTRUCTION MUST BE PHASED SO THE NEWLY ALIGNED CHANNEL IS FULLY OPERATIONAL BEFORE THE EXISTING DRAINAGE CHANNEL IS FILLED. FLOOD WATER CONVEYANCE MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
39. BEFORE GRADING IN AREAS CONTAINING NATIVE DESERT VEGETATION, THE CONTRACTOR MUST OBTAIN A PERMIT FROM ARIZONA DEPARTMENT OF AGRICULTURE. FOR INFORMATION, PHONE (602) 542-3578.
40. IF PROPERTY IS ADJACENT TO THE PHOENIX MOUNTAIN PRESERVE, NO DISTURBANCE OF PRESERVE PROPERTY FOR ACCESS, GRADING, OR OTHER CONSTRUCTION PURPOSES WILL BE ALLOWED. THE CONTRACTOR IS REQUIRED TO DELINEATE THE MOUNTAIN PRESERVE BOUNDARY WITH A TEMPORARY FENCE OR OTHER ACCEPTABLE METHODS.
41. IF SITE HAS SPECIAL PRESERVATION OR HILLSIDE ISSUES, THE GRADING PLAN MUST SHOW ALL LANDSCAPE PRESERVATION EASEMENTS, CONSTRUCTION FENCING LOCATIONS, AND APPROPRIATE AREAS LABELED. PRIOR TO ANY CLEARING, GRUBBING, OR GRADING OPERATIONS, CONSTRUCTION FENCING SHALL BE SHOWN ON APPROVED PLANS, PERMITTED AND INSPECTED AND SALVAGE OPERATIONS PERMITTED, INSPECTED, AND COMPLETED.

**ABBREVIATIONS**

- PC = PIPE CONNECTION
- MH = MANHOLE
- CB = CATCH BASIN
- P/L = PRIVATE PROPERTY LINE

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

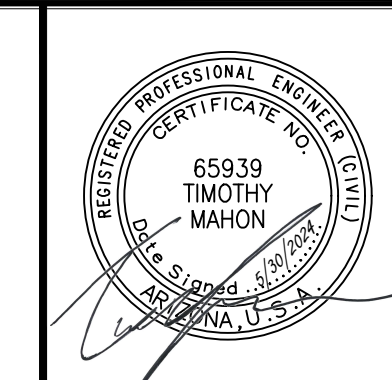
**LEGEND NOTES**

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

**NORTH LANE**  
**22ND ST TO 24TH ST**  
**ST83140121**

DR: LNB	DES: CJR	CHK: TMM	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	G-1.01
SCALE: NONE			

LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140121	19	50	
12/23					
DATE: 12/23					
DRAWN: LNB		DESIGN: CJR		CHECKED: TMM	



REVISION BY CITY OF PHOENIX

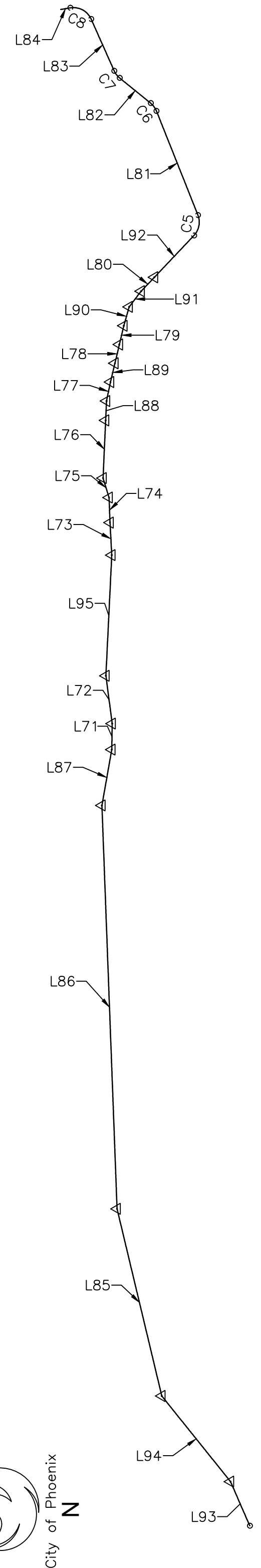
NO.	DESCRIPTION	REV BY	CHK BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHK BY	DATE



WEST DITCH

WEST DITCH ALIGNMENT DATA						
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	START	PI STATION	END
L93		25.064	N66° 26' 14.90"E	N 938775.4748 E 663839.8561 STA 20+00.00		N 938785.4941 E 663862.8304 STA 20+25.06
L94		57.060	N51° 14' 12.12"E	N 938785.4941 E 663862.8304 STA 20+25.06		N 938821.2196 E 663907.3222 STA 20+82.12
L85		99.928	N76° 32' 44.26"E	N 938821.2196 E 663907.3222 STA 20+82.12		N 938844.4699 E 664004.5077 STA 21+82.05
L86		209.636	N87° 50' 55.91"E	N 938844.4699 E 664004.5077 STA 21+82.05		N 938852.3387 E 664213.9964 STA 23+91.69
L87		29.449	S79° 58' 59.69"E	N 938852.3387 E 664213.9964 STA 23+91.69		N 938847.2165 E 664242.9965 STA 24+21.14
L71		13.495	S89° 01' 52.81"E	N 938847.2165 E 664242.9965 STA 24+21.14		N 938846.9883 E 664256.4899 STA 24+34.63
L72		25.046	N82° 27' 32.51"E	N 938846.9883 E 664256.4899 STA 24+34.63		N 938850.2752 E 664281.3188 STA 24+59.68
L95		62.748	S87° 12' 32.15"E	N 938850.2752 E 664281.3188 STA 24+59.68		N 938847.2197 E 664343.9921 STA 25+22.43
L73		16.908	N86° 55' 53.86"E	N 938847.2197 E 664343.9921 STA 25+22.43		N 938848.1248 E 664360.8754 STA 25+39.33
L74		13.044	N87° 43' 28.66"E	N 938848.1248 E 664360.8754 STA 25+39.33		N 938848.6426 E 664373.9093 STA 25+52.38
L75		10.545	N72° 55' 23.87"E	N 938848.6426 E 664373.9093 STA 25+52.38		N 938851.7392 E 664383.9895 STA 25+62.92
L76		30.000	S87° 26' 47.99"E	N 938851.7392 E 664383.9895 STA 25+62.92		N 938850.4027 E 664413.9594 STA 25+92.92
L88		10.074	S87° 23' 21.09"E	N 938850.4027 E 664413.9594 STA 25+92.92		N 938849.9439 E 664424.0228 STA 26+03.00
L77		10.071	S78° 13' 42.15"E	N 938849.9439 E 664424.0228 STA 26+03.00		N 938847.8893 E 664433.8817 STA 26+13.07
L89		10.032	S76° 38' 54.35"E	N 938847.8893 E 664433.8817 STA 26+13.07		N 938845.5728 E 664443.6422 STA 26+23.10
L78		10.000	S76° 38' 43.80"E	N 938845.5728 E 664443.6422 STA 26+23.10		N 938843.2630 E 664453.3717 STA 26+33.10
L79		9.992	S76° 38' 43.95"E	N 938843.2630 E 664453.3717 STA 26+33.10		N 938840.9552 E 664463.0931 STA 26+43.09
L90		10.208	S74° 12' 32.42"E	N 938840.9552 E 664463.0931 STA 26+43.09		N 938838.1774 E 664472.9156 STA 26+53.30
L91		10.247	S52° 32' 42.03"E	N 938838.1774 E 664472.9156 STA 26+53.30		N 938831.9461 E 664481.0497 STA 26+63.54
L80		10.006	S46° 23' 54.70"E	N 938831.9461 E 664481.0497 STA 26+63.54		N 938825.0457 E 664488.2954 STA 26+73.55

WEST DITCH ALIGNMENT DATA						
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	START	PI STATION	END
L92		29.903	S46° 31' 24.51"E	N 938825.0457 E 664488.2954 STA 26+73.55		N 938804.4705 E 664509.9950 STA 27+03.45
C5	10.000	11.382	S79° 07' 50.57"E	STA 27+03.45	STA 27+09.85	STA 27+14.84
L81		58.175	N68° 15' 43.36"E	N 938802.4382 E 664520.5792 STA 27+14.84		N 938823.9840 E 664574.6171 STA 27+73.01
C6	10.000	5.103	N53° 38' 34.63"E	STA 27+73.01	STA 27+78.12	STA 27+78.11
L82		20.799	N39° 01' 25.90"E	N 938826.9764 E 664578.6823 STA 27+78.11		N 938843.1352 E 664591.7786 STA 27+98.91
C7	10.000	4.712	N52° 31' 18.79"E	STA 27+98.91	STA 28+01.31	STA 28+03.62
L83		29.470	N66° 01' 11.67"E	N 938845.9756 E 664595.4832 STA 28+03.62		N 938857.9526 E 664622.4093 STA 28+33.09
C8	10.000	13.240	N28° 05' 21.51"E	STA 28+33.09	STA 28+40.89	STA 28+46.33
L84		4.999	N09° 50' 28.65"W	N 938868.7987 E 664628.1980 STA 28+46.33		N 938873.7239 E 664627.3436 STA 28+51.33

NOTES ADD:  
THE HORIZONTAL DATUM IS NAD83(HARN) STATE PLANE, ARIZONA CENTRAL ZONE ADJUSTED FROM GRID TO GROUND USING A COMBINATION SCALE FACTOR OF 1.000164 WITH A SCALE POINT OF X=0.0, Y=0.0  
THE BASIS OF BEARING IS GEODETIC DENSIFICATION AND CADASTRAL SURVEY  
ELEVATIONS ARE ON THE NGVD29 VERTICAL DATUM



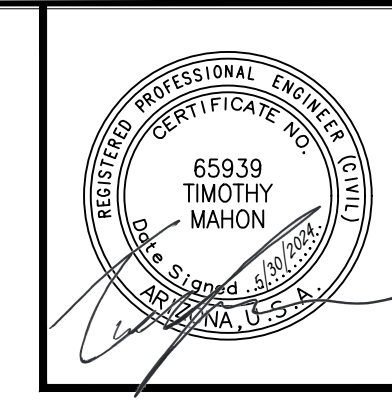
"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

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

**NORTH LANE**  
**22ND ST TO 24TH ST**  
**ST83140121**

DR: LNB | DES: CJR | CK: TMM  
DATE: 12/23 | DATE: 12/23 | DATE: 12/23  
SCALE: 1"=100' HORIZONTAL  
DRAWING SERIES NO. G-2.01

LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140121	20	50	
DATE: 12/23					
DRAWN: LNB					

NOTES ADD:

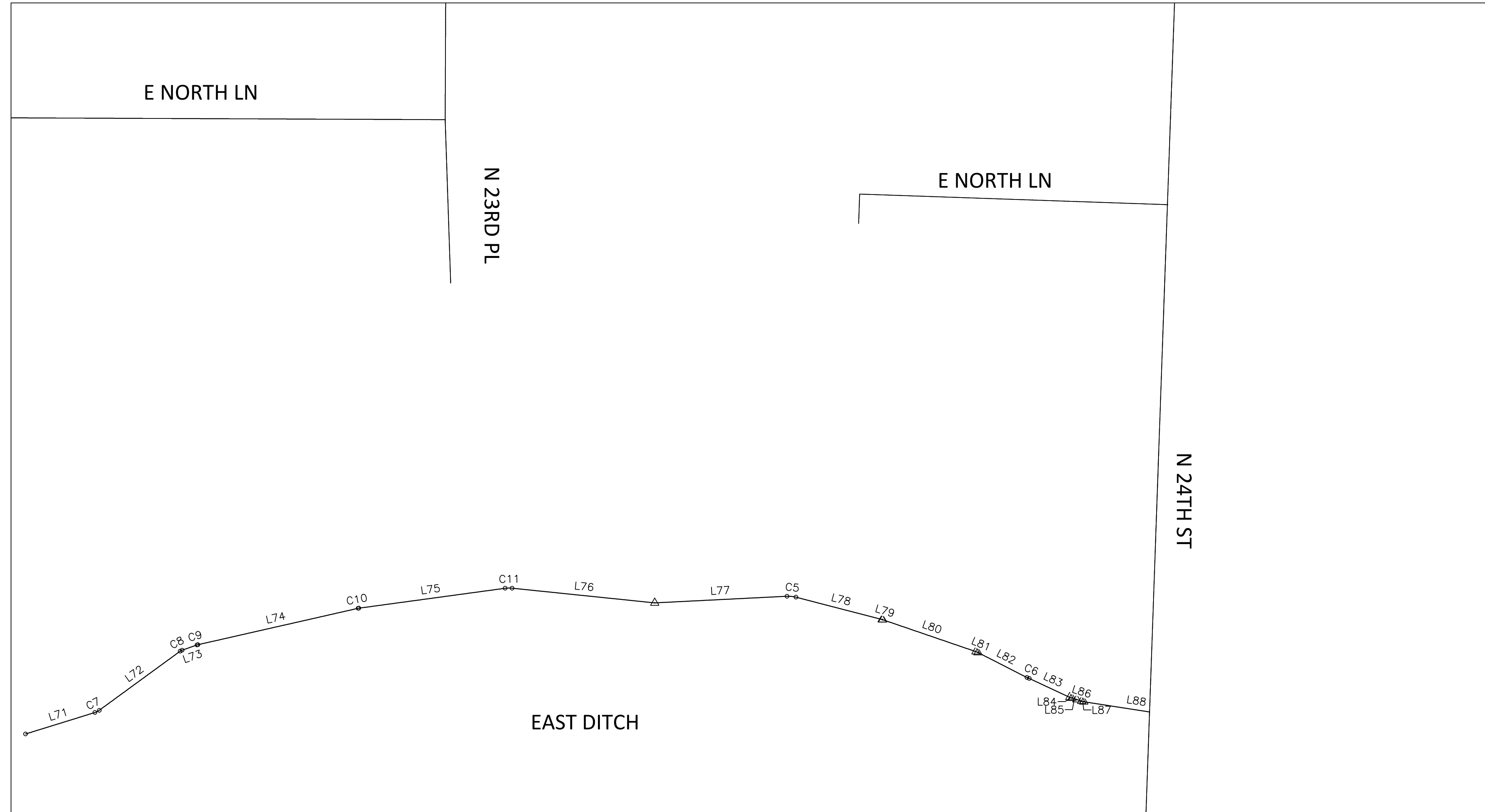
THE HORIZONTAL DATUM IS NAD83(HARN) STATE PLANE, ARIZONA CENTRAL ZONE ADJUSTED FROM GRID TO GROUND USING A COMBINATION SCALE FACTOR OF 1.000164 WITH A SCALE POINT OF X=0.0, Y=0.0

THE BASIS OF BEARING IS GEODETIC DENSIFICATION AND CADASTRAL SURVEY

ELEVATIONS ARE ON THE NGVD29 VERTICAL DATUM



EAST DITCH ALIGNMENT DATA						
NUMBER	RADIUS	LENGTH	LINE/CHORD DIRECTION	START	PI STATION	END
L71		49.535	N72° 46' 45.26"E	N 938827.6809 E 664640.7968 STA 30+00.00		N 938842.3459 E 664688.1110 STA 30+49.53
C7	10.000	3.306	N63° 18' 34.02"E	STA 30+49.53	STA 30+51.20	STA 30+52.84
L72		68.314	N53° 50' 22.79"E	N 938843.8239 E 664691.0509 STA 30+52.84		N 938884.1323 E 664746.2054 STA 31+21.15
C8	5.000	1.470	N62° 15' 50.60"E	STA 31+21.15	STA 31+21.89	STA 31+22.62
L73		10.805	N70° 41' 18.40"E	N 938884.8141 E 664747.5022 STA 31+22.62		N 938888.3875 E 664757.6995 STA 31+33.43
C9	5.000	0.568	N73° 56' 28.32"E	STA 31+33.43	STA 31+33.71	STA 31+34.00
L74		111.947	N77° 11' 38.24"E	N 938888.5445 E 664758.2448 STA 31+34.00		N 938913.3578 E 664867.4076 STA 32+45.95
C10	5.000	0.441	N79° 43' 06.52"E	STA 32+45.95	STA 32+46.17	STA 32+46.39
L75		100.533	N82° 14' 34.79"E	N 938913.4364 E 664867.8410 STA 32+46.39		N 938927.0055 E 664967.4538 STA 33+46.92
C11	20.000	4.761	N89° 03' 46.21"E	STA 33+46.92	STA 33+49.31	STA 33+51.68
L76		97.742	S84° 07' 02.38"E	N 938927.0832 E 664972.2030 STA 33+51.68		N 938917.0654 E 665069.4303 STA 34+49.42
L77		90.146	N87° 07' 44.85"E	N 938917.0654 E 665069.4303 STA 34+49.42		N 938921.5804 E 665159.4630 STA 35+39.57
C5	20.000	6.130	S84° 14' 20.79"E	STA 35+39.57	STA 35+42.66	STA 35+45.70
L78		60.709	S75° 27' 32.66"E	N 938920.9675 E 665165.5378 STA 35+45.70		N 938905.7252 E 665224.3023 STA 36+06.41
L79		0.382	S73° 16' 03.22"E	N 938905.7252 E 665224.3023 STA 36+06.41		N 938905.6151 E 665224.6685 STA 36+06.79
L80		67.142	S71° 04' 33.23"E	N 938905.6151 E 665224.6685 STA 36+06.79		N 938883.8399 E 665288.1816 STA 36+73.93
L81		1.419	S67° 00' 24.97"E	N 938883.8399 E 665288.1816 STA 36+73.93		N 938883.2855 E 665289.4880 STA 36+75.35
L82		37.466	S62° 56' 16.66"E	N 938883.2855 E 665289.4880 STA 36+75.35		N 938866.2400 E 665322.8525 STA 37+12.82
C6	10.000	1.754	S67° 57' 47.66"E	STA 37+12.82	STA 37+13.70	STA 37+14.57
L83		30.482	S64° 58' 14.42"E	N 938865.5826 E 665324.4764 STA 37+14.57		N 938852.6861 E 665352.0961 STA 37+45.05
L84		1.512	S72° 10' 21.30"E	N 938852.6861 E 665352.0961 STA 37+45.05		N 938852.2234 E 665353.5351 STA 37+46.56
L85		3.504	S72° 31' 06.83"E	N 938852.2234 E 665353.5351 STA 37+46.56		N 938851.1709 E 665356.8769 STA 37+50.07
L86		3.494	S72° 40' 05.56"E	N 938851.1709 E 665356.8769 STA 37+50.07		N 938850.1300 E 665360.2125 STA 37+53.56
L87		1.489	S73° 01' 13.77"E	N 938850.1300 E 665360.2125 STA 37+53.56		N 938849.6953 E 665361.6361 STA 37+55.05
L88		45.352	S81° 10' 29.74"E	N 938849.6953 E 665361.6361 STA 37+55.05		N 938842.7375 E 665406.4507 STA 38+00.40



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



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

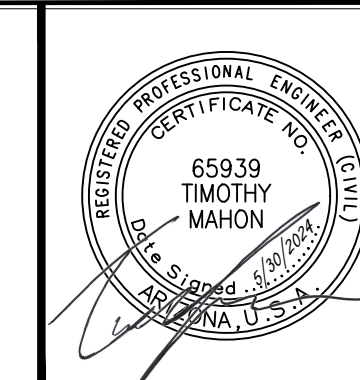
**GEOMETRIC CONTROL**

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

**NORTH LANE**  
22ND ST TO 24TH ST  
ST83140121

DR: LNB	DES: CJR	CHK: TMM	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	G-2.02
SCALE: 1"=100' HORIZONTAL			

AMERICAN RESCUE PLAN ACT  
 LOCAL DRAINAGE MITIGATION PROGRAM  
 PHOENIX STREETS - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140121	21	50	
DATE: 12/23		<b>AZTEC</b>			
DRAWN: LNB		DESIGN: CJR	CHECKED: TMM		

**QUANTITY SUMMARY**

ITEM No.	DESCRIPTION	NIT	SHEET NUMBERS								TOTAL QUANTITY
			GD 1.01	GD 1.02	GD 1.03	GD 1.04	LS 1.01	LS 1.02	LS 1.03	LS 1.04	
M#####	(DESCRIPTION)	NIT									TOTAL QUANTITY
M1042007	LANDSCAPE RESTORATION	OB	1	1	1	1	0	0	0	0	1
M2152001	CHANNEL EXCAVATION	CY	61	192	110	55	0	0	0	0	418
M2200007	RIP RAP, D 0 6"	CY	0	21	0	9	0	0	0	0	30
M3001002	SAWC T REMOVE EXISTING CURB GUTTER	LF	0	0	0	9	0	0	0	0	9
M300100	SAWC T REMOVE EXISTING SIDEWALK	SF	0	0	0	54	0	0	0	0	54
M3360224	SAWC T, REMOVE AND REPLACE A.C. PAVEMENT, C.O.P. STANDARD DETAIL P 1200	SY	0	0	0	2	0	0	0	0	2
M3362002	SLURRY SEAL COAT	SY	0	0	0	268	0	0	0	0	268
M30010	REMOVE TREE 6 INCH CALIPER OR LARGER	EA	2	4	0	4	0	0	0	0	10
M41 310	SAFETY RAIL, MAG DETAIL 14	LF	0	0	0	10	0	0	0	0	10
M4200008	TEMPORARY FENCE DISTANCE LIMIT FENCE	LF	1,237	893	1,108	778	0	0	0	0	4,016
M430 00	HYDROSEED, TYPE A SONORAN DESERT MIX	SF	19,944	19,768	18,540	13,617	0	0	0	0	71,869
M430 800	CACTI, TRANSPLANT	EA	0	0	0	0	2	0	23	2	27
M430 820	SAGUARO, TRANSPLANTING	EA	0	0	0	0	1	0	0	0	1
M 0 1 02	CONCRETE CATCH BASIN, TYPE "F", MAG DETAIL 3	EA	0	0	0	1	0	0	0	0	1
M 0 2063	CONCRETE SCOPER, MAG STANDARD DETAIL 206	EA	0	0	0	1	0	0	0	0	1
M 0 008	HEADWALL FOR 1" PIPE, MAG STANDARD DETAILS 011 AND 012	EA	0	0	0	1	0	0	0	0	1
M621001	1" C.M.P., 12 GAUGE	LF	0	0	0	37	0	0	0	0	37

NO.	DESCRIPTION	REV BY	CHK BY	DATE

**KEY MAP**



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

**QUANTITY SUMMARY**  
**CITY OF PHOENIX, ARIZONA**  
**STREET TRANSPORTATION DEPARTMENT**  
**NORTH LANE**  
**22ND ST TO 24TH ST**  
**ST83140121**

DR: LNB | DES: CJR | CK: TMM | DRAWING SERIES NO.  
 DATE: 12/23 | DATE: 12/23 | DATE: 12/23  
 SCALE: NONE | G-3.01

AMERICAN RESCUE PLAN ACT  
LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS - MARICOPA CO.

NO.	DESCRIPTION	REV BY	CHKD BY	DATE

NO.	DESCRIPTION	REV BY	CHKD BY	DATE

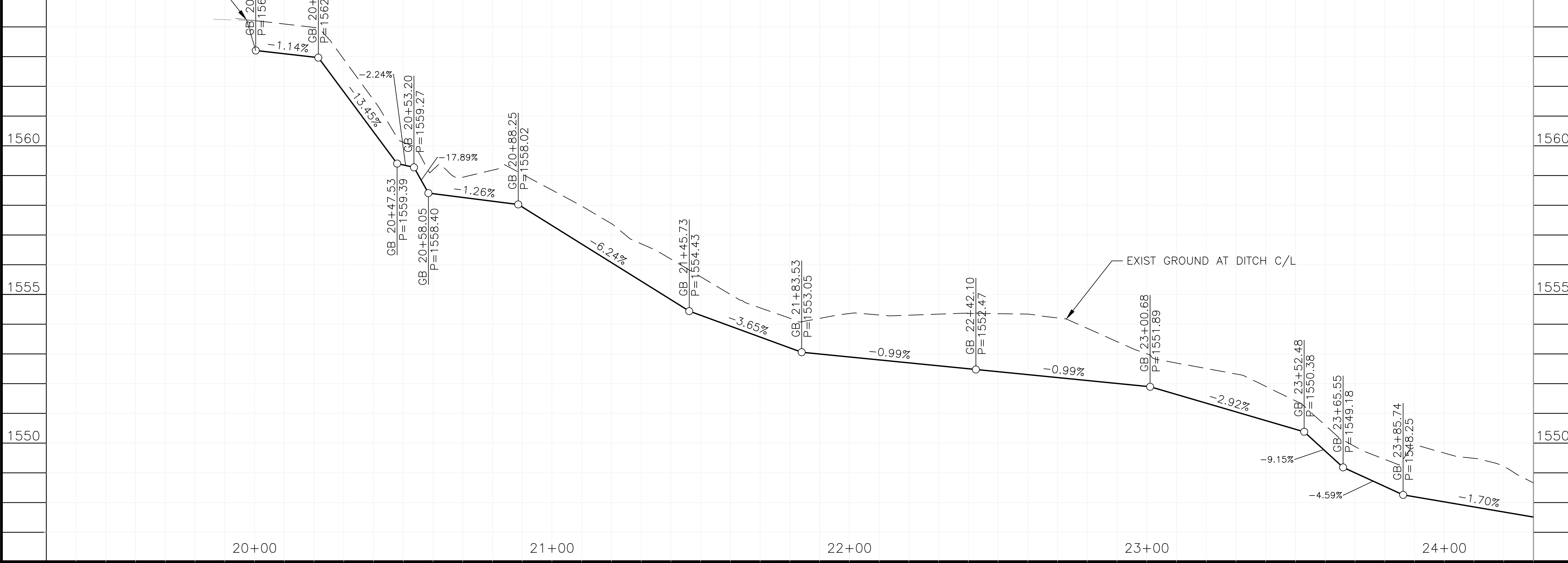
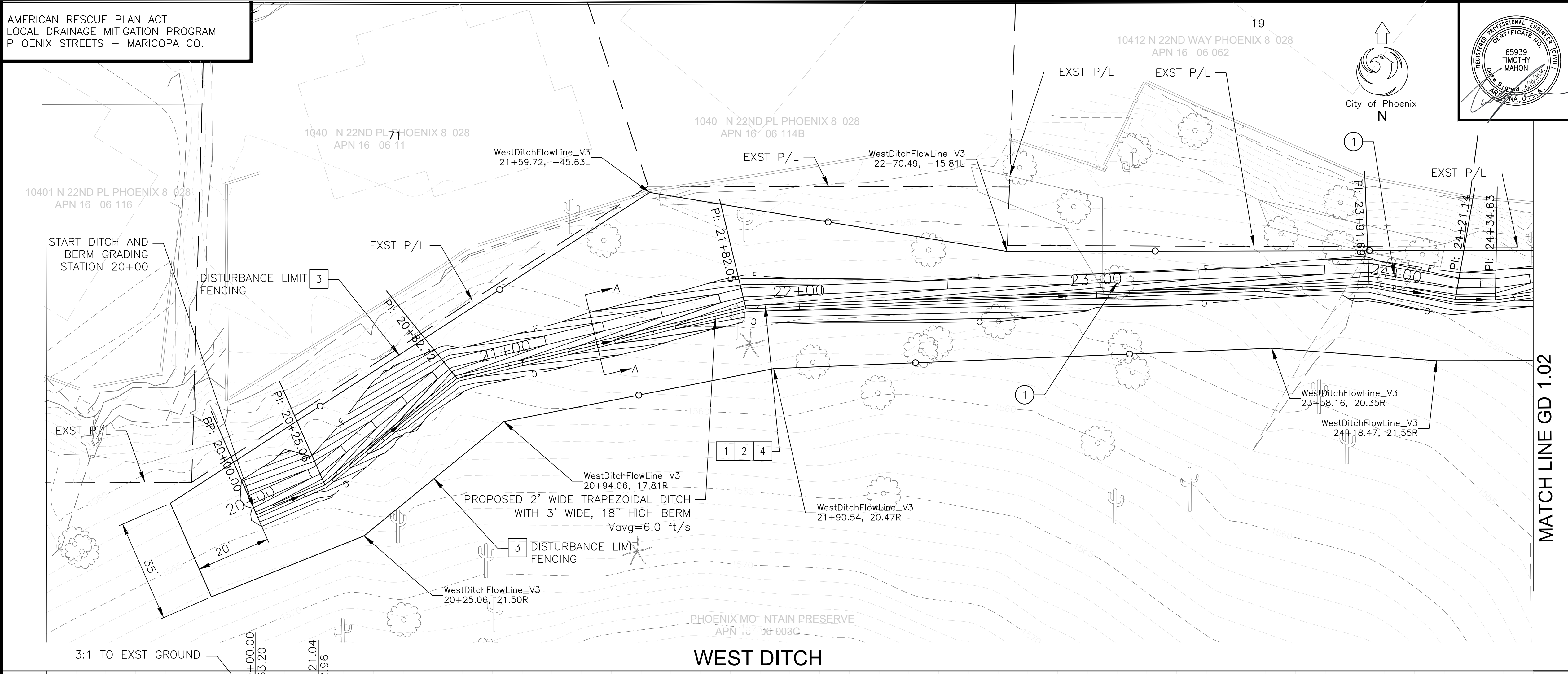
NO.	DESCRIPTION	REV BY	CHKD BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140121	22	50	
DATE: 12/23		<b>AZTEC</b>			
DRAWN: LNB		DESIGN: CJR	CHECKED: TMM		

NO	DESCRIPTION	UNIT	QTY
1	REMOVE TREE	EA	2

NO	DESCRIPTION	UNIT	QTY
1	CHANNEL EXCAVATION	CY	61
2	LANDSCAPE RESTORATION	JOB	1
3	DISTURBANCE LIMIT FENCING	LF	1237
4	SONORAN DESERT SEED MIX ALL DISTURBED AREAS	SF	19,944



MATCH LINE GD 1.02

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

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

**GRADING DRAINAGE PLAN**

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

**NORTH LANE**  
22ND ST TO 24TH ST  
ST83140121

DR: LNB DES: CJR CK: TMM DATE: 12/23  
DRAWING SERIES NO. GD-1.01

AMERICAN RESCUE PLAN ACT  
LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS - MARICOPA CO.

10401 N 22ND WAY PHOENIX 8 028  
APN 16 06 063

10402 N 23RD ST PHOENIX 8 028  
APN 16 06 06

10401 N 23RD ST PHOENIX 8 02831+24.44, -8.23L



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140121	23	50	
12/23					
DATE: 12/23					
DRAWN: LNB DESIGN: CJR CHECKED: TMM					

REMOVAL/RELOCATION NOTES			
NO	DESCRIPTION	UNIT	QTY
1	REMOVE TREE	EA	4

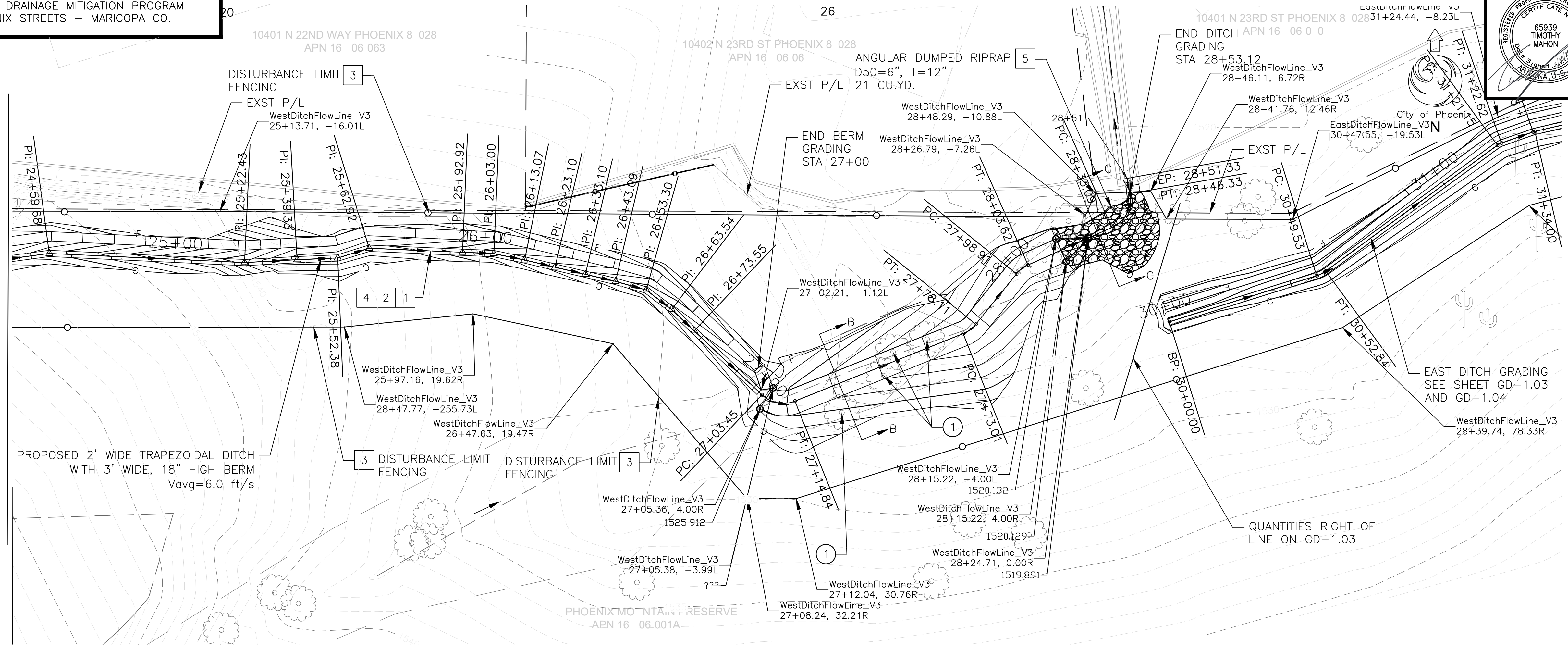
CONSTRUCTION NOTES			
NO	DESCRIPTION	UNIT	QTY
1	CHANNEL EXCAVATION	CY	192
2	LANDSCAPE RESTORATION	JOB	1
3	DISTURBANCE LIMIT FENCING	LF	893
4	SONORAN DESERT SEED MIX ALL DISTURBED AREAS	SF	19,768
5	ANGULAR DUMPED RIPRAP, D50=6"	CY	21

REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION

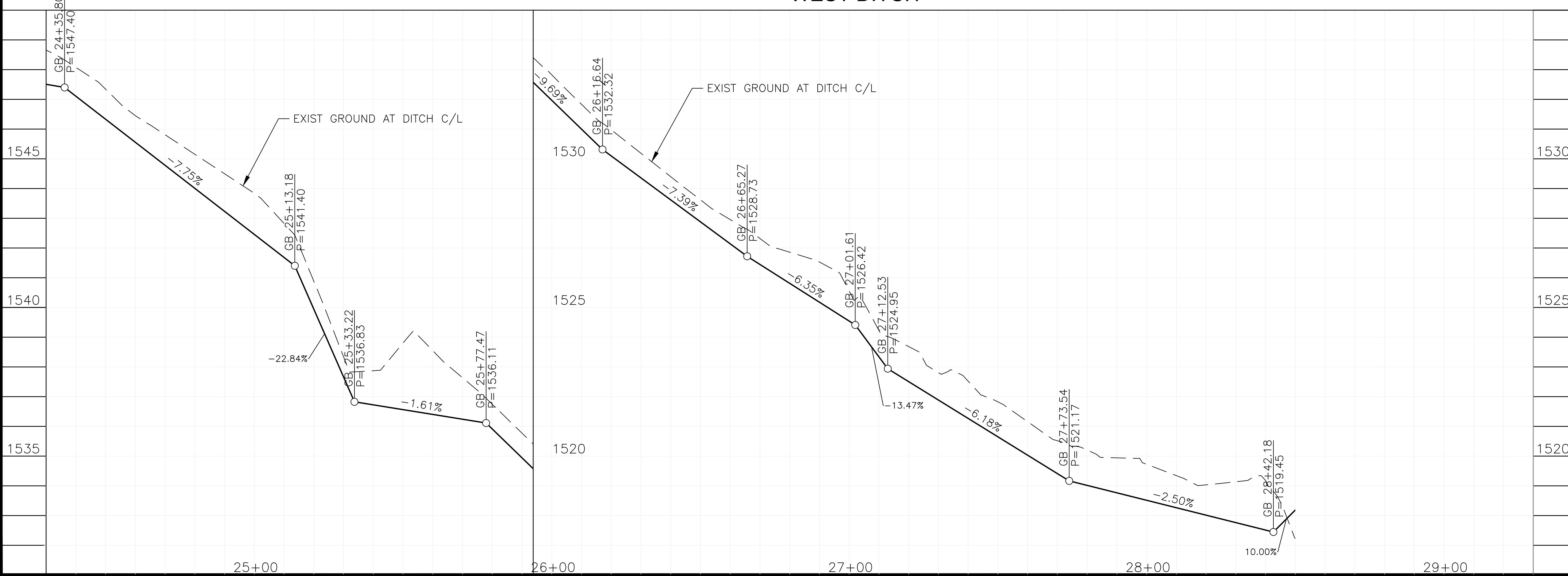
REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION

REVISION BY CITY OF PHOENIX	
NO.	DESCRIPTION

MATCH LINE GD 1.01



WEST DITCH



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

GRADING DRAINAGE PLAN

CITY OF PHOENIX, ARIZONA  
STREET TRANSPORTATION DEPARTMENT

NORTH LANE  
22ND ST TO 24TH ST  
ST83140121

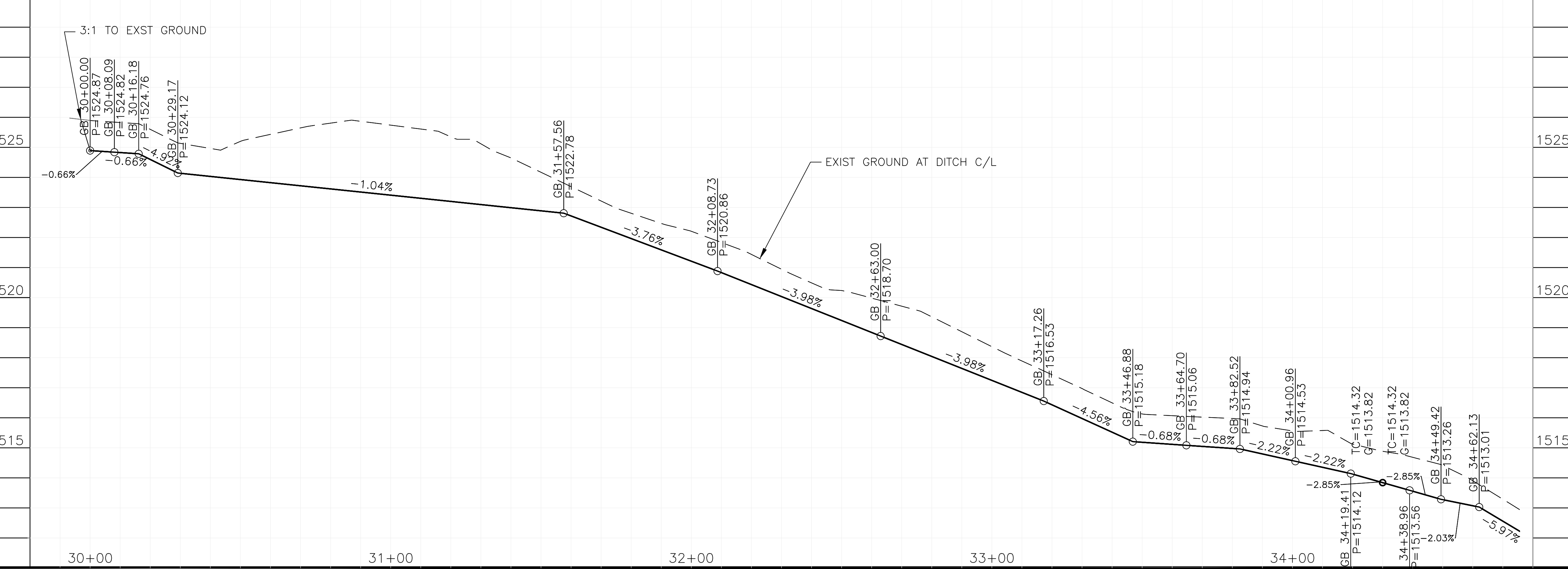
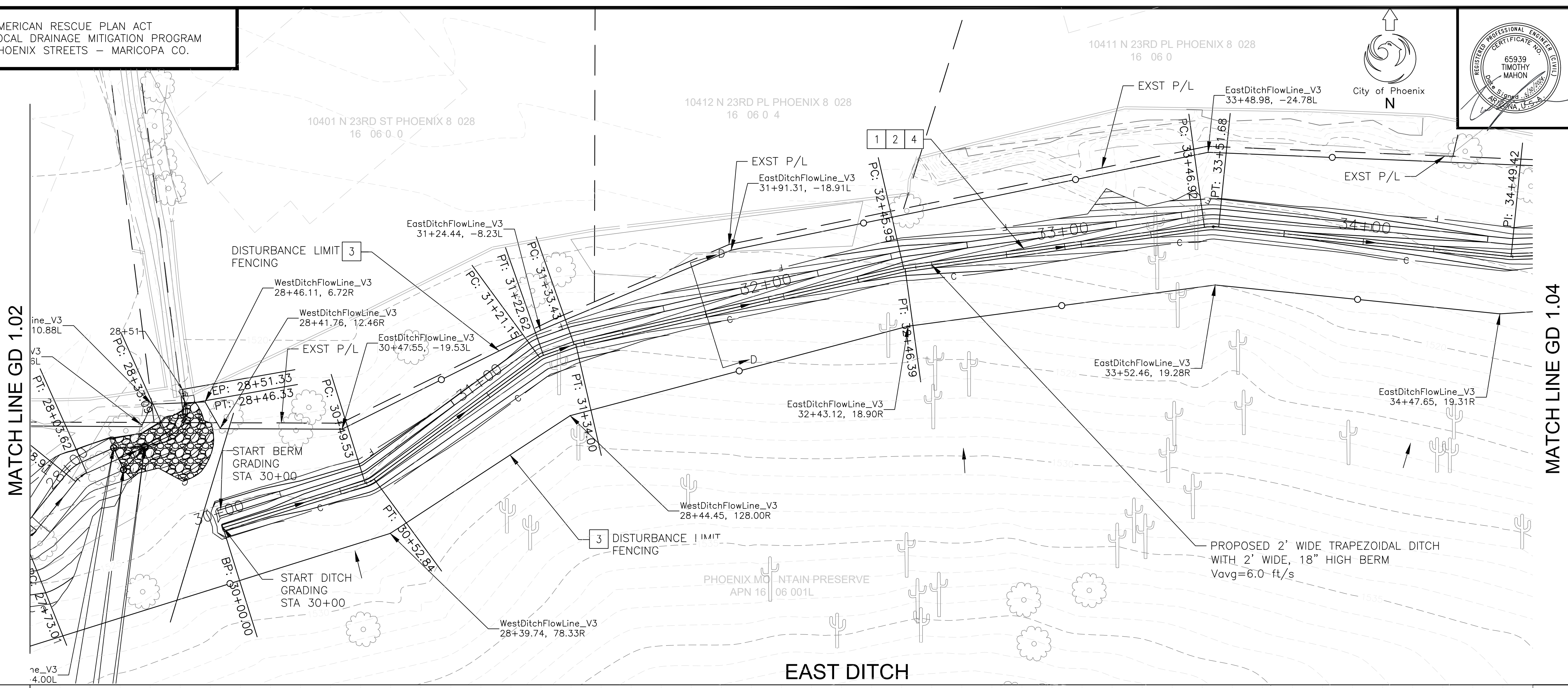
DR: LNB	DES: CJR	CK: TMM	DRAWING SERIES NO.
DATE: 12/23			GD-1.02
SCALE: 1"=20' HORIZONTAL			
1"=2' VERTICAL			

AMERICAN RESCUE PLAN ACT  
LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS - MARICOPA CO.

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140121	24	50	

DATE: 12/23  
DRAWN: LNB DESIGN: CJR CHECKED: TMM



CONSTRUCTION NOTES			
NO	DESCRIPTION	UNIT	QTY
1	CHANNEL EXCAVATION	CY	110
2	LANDSCAPE RESTORATION	JOB	1
3	DISTURBANCE LIMIT FENCING	LF	1,108
4	SONORAN DESERT SEED MIX ALL DISTURBED AREAS	SF	18,540

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

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**GRADING DRAINAGE PLAN**

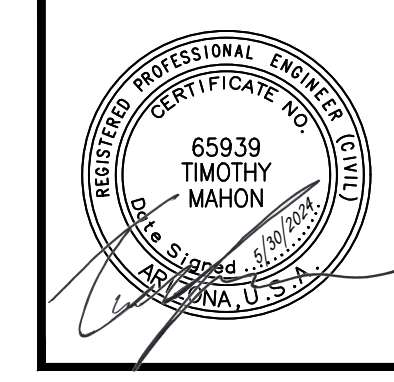
**CITY OF PHOENIX, ARIZONA**  
STREET TRANSPORTATION DEPARTMENT

**NORTH LANE**  
22ND ST TO 24TH ST  
ST83140121

DR: LNB DES: CJR CK: TMM DRAWING SERIES NO.  
DATE: 12/23/23 DATE: 12/23/23 DATE: 12/23/23  
SCALE: 1"=20' HORIZONTAL  
1"=2' VERTICAL GD-1.03



AMERICAN RESCUE PLAN ACT  
LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS - MARICOPA CO.

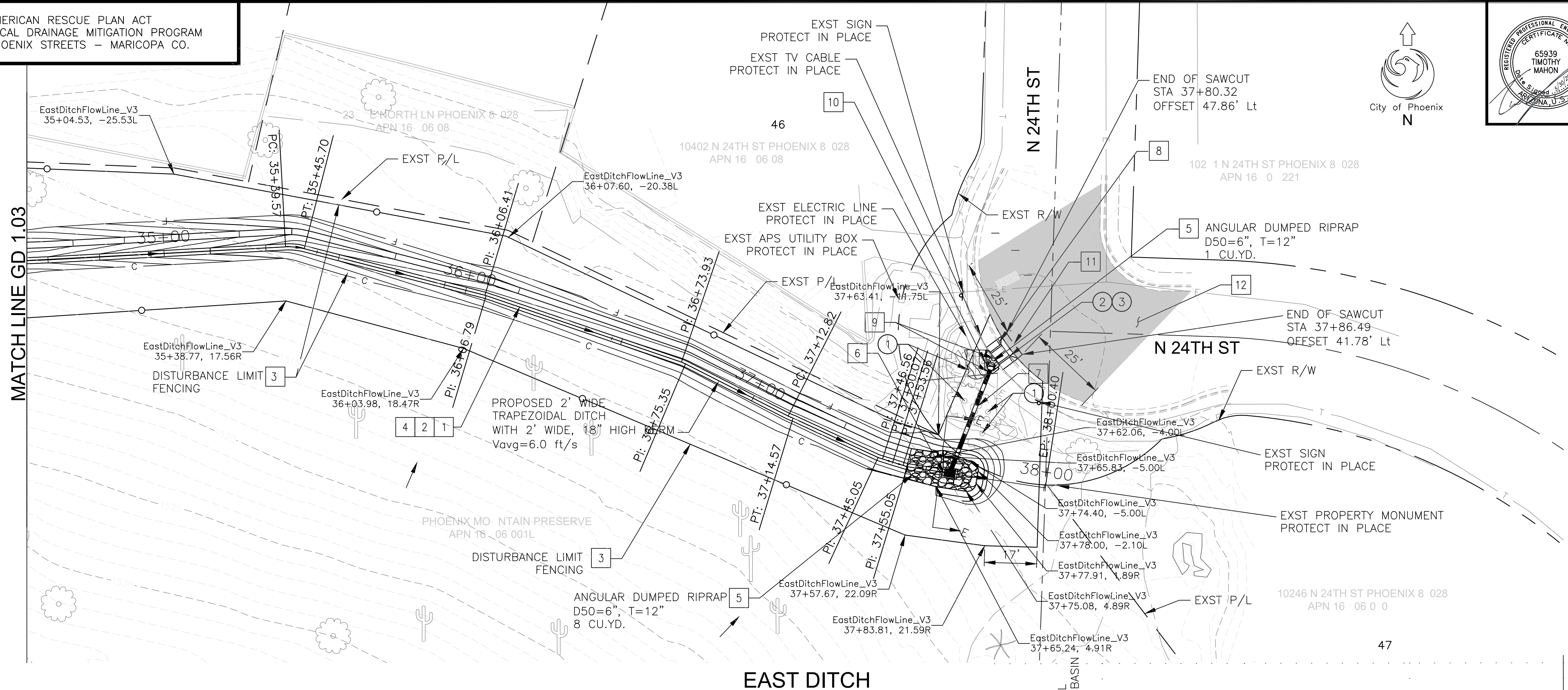


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140121	25	50	
DATE: 12/23		DESIGN: CJR		CHECKED: TMM	
DRAWN: LNB		DESIGN: CJR		CHECKED: TMM	

NO.	DESCRIPTION	REV BY	CHK BY	DATE

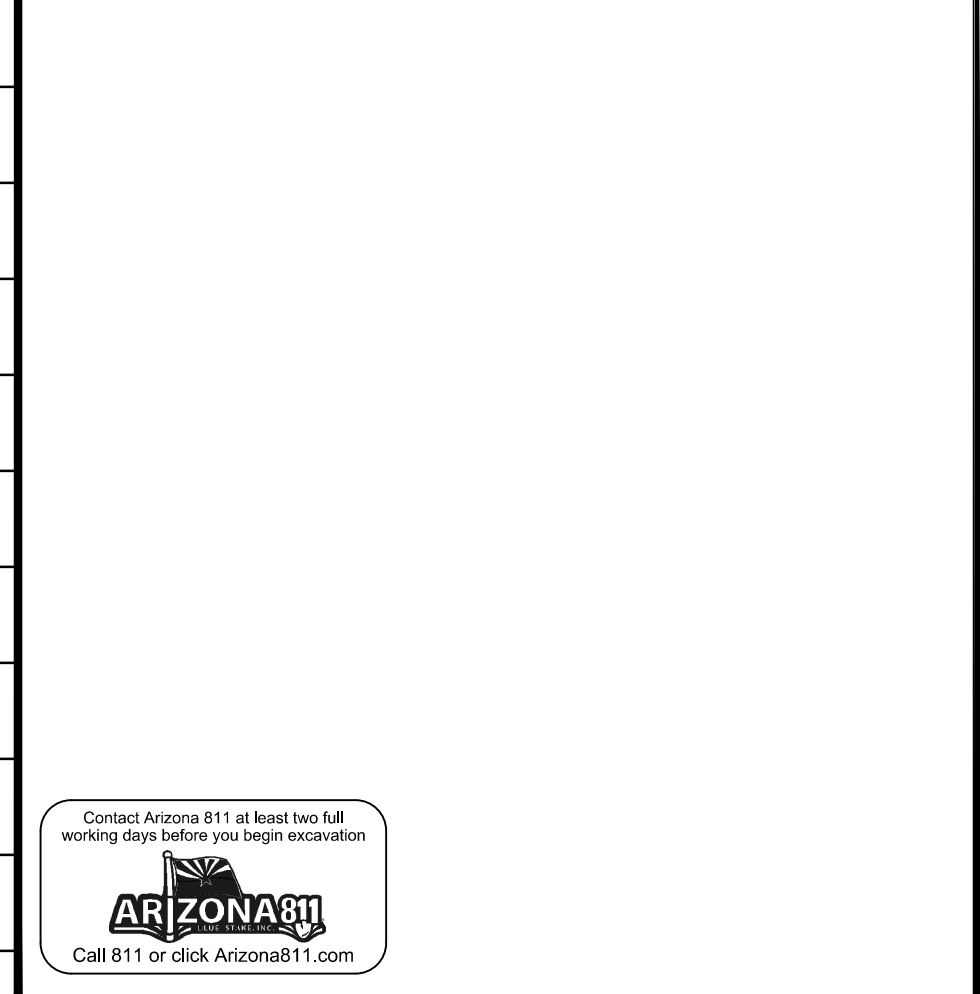
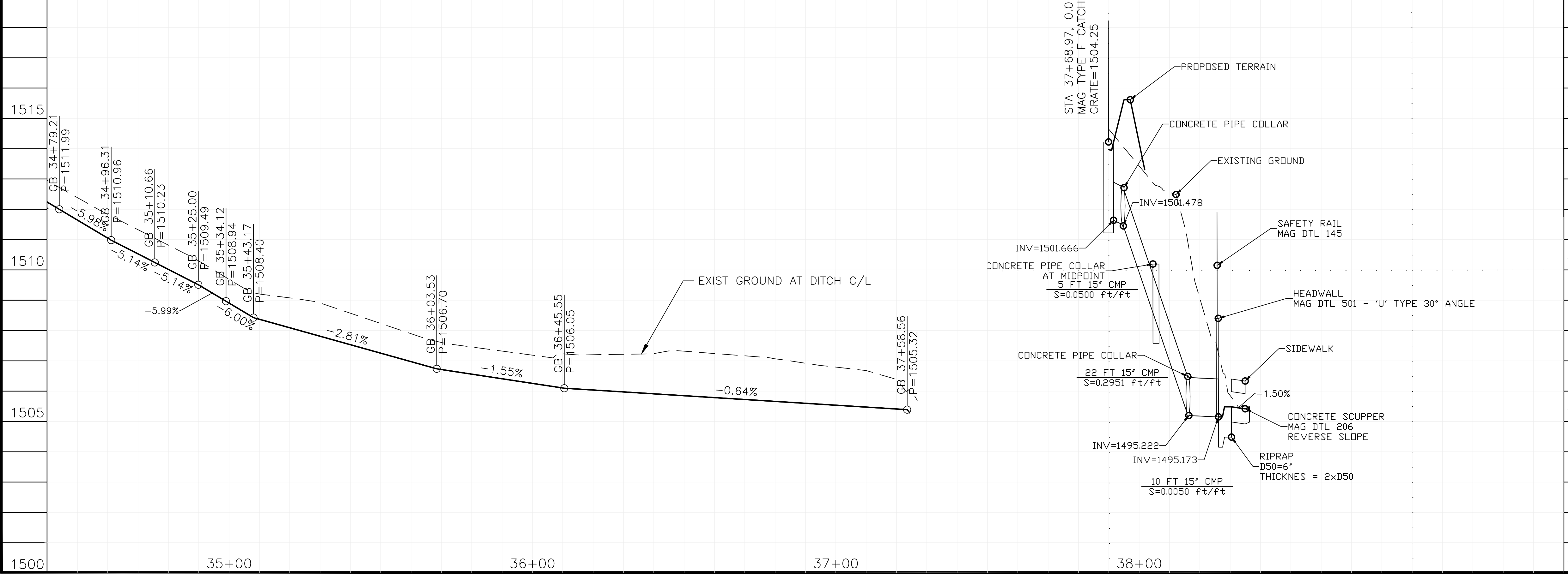
NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



REMOVAL/RELOCATION NOTES				
NO	DESCRIPTION	UNIT	QTY	
1	REMOVE TREE	EA	4	
2	SAWCUT & REMOVE EXISTING CURB & GUTTER	LF	9	
3	SAWCUT & REMOVE EXISTING SIDEWALK	SF	54	

CONSTRUCTION NOTES				
NO	DESCRIPTION	UNIT	QTY	
1	CHANNEL EXCAVATION	CY	55	
2	LANDSCAPE RESTORATION	JOB	1	
3	DISTURBANCE LIMIT FENCING	LF	778	
4	SONORAN DESERT SEED MIX ALL DISTURBED AREAS	SF	13,617	
5	ANGULAR DUMPED RIPRAP, D50=6"	CY	9	
6	CATCH BASIN TYPE F MAG DTL 535	EA	1	
7	15" CMP STORM DRAIN	LF	37	
8	CONCRETE SCUPPER MAG DTL 206	EA	1	
9	SAFETY RAIL MAG DTL 145	LF	10	
10	HEADWALL, TYPE 'U' MAG DTL 501-1	EA	1	
11	SAWCUT, REMOVE, & REPLACE PAVEMENT PER COP STD 1200 & MAG SPEC 336	SY	2	
12	SLURRY SEAL COAT	SY	268	



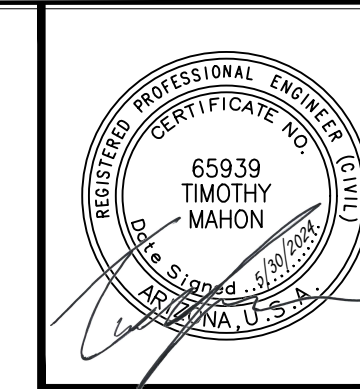
"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

**GRADING DRAINAGE PLAN**

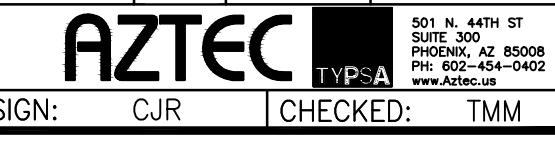
**CITY OF PHOENIX, ARIZONA**  
STREET TRANSPORTATION DEPARTMENT

**NORTH LANE**  
22ND ST TO 24TH ST  
ST83140121

DR: LNB DES: CJR CK: TMM DATE: 12/23 DATE: 12/23 DATE: 12/23 DRAWING SERIES NO. GD-1.04



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140121	26	50	
12/23					
DATE: 12/23					
DRAWN: LNB		DESIGN: CJR		CHECKED: TMM	



**GENERAL NOTES**

- ALL MATERIAL TO CONSTRUCT THE DITCH AND BERM WILL ONLY CONSIST OF MATERIALS ON-SITE.
- EXCAVATED MATERIAL IS TO BE SIEVED FOR LARGER DIAMETER ROCKS TO ARMOR THE OUTER LAYER OF THE BERM.
- THE BERM SHALL BE COMPACTED TO 95% COMPACTION RATIO AFTER PLACEMENT.
- ALL VEGETATION ON-SITE SHALL BE PROTECTED IN PLACE, ALL EXISTING TREES AND CACTUS FAUNA SHALL BE PROTECTED IN PLACE. NOTIFY ENGINEER PRIOR TO ANY TREE OR CACTUS REMOVALS.

**DUMPED RIPRAP GRADATION**

Riprap Gradation, $d_{50}=6"$	
Thickness = 12"	
% Passing	Size (in)
100	9
85	8
50	6
15	3

**SONORAN DESERT SEED MIX:**

**Type A: General Use**

SPECIES	COMMON NAME	LBS/ACRE
<i>Oleña tesota</i>	Ironwood	3.0
<i>Prosopis velutina</i>	Velvet Mesquite	1.0
<i>Parkinsonia microphylla</i>	Foothills Palo Verde	4.0
<i>Parkinsonia floridum</i>	Blue Palo Verde	4.0
<i>Ambrosia deltoidei</i>	Bursage	4.0
<i>Baileya multiradiata</i>	Desert Marigold	1.0
<i>Cassia covesii</i>	Desert Senna	1.5
<i>Encelia farinose</i>	Brittle Bush	1.0
<i>Eriogonum fasciculatum</i>	Buckwheat, var. Polifolium	1.0
<i>Erioneuron pulchellus (1)</i>	Fluff Grass	1.0
<i>Larrea tridentata</i>	Creosote Bush	3.0
<i>Lupinus sparsiflorus</i>	Desert Lupine	2.0
<i>Phacelia crenulate</i>	-	2.0
<i>Plantago insularis</i>	Indian Wheat	5.0
<i>Sphaeralcea ambigua</i>	Desert Globe Mallow	1.5

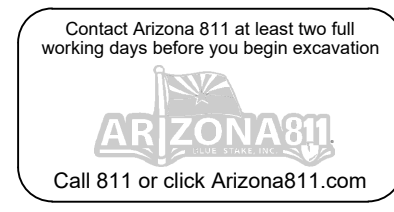
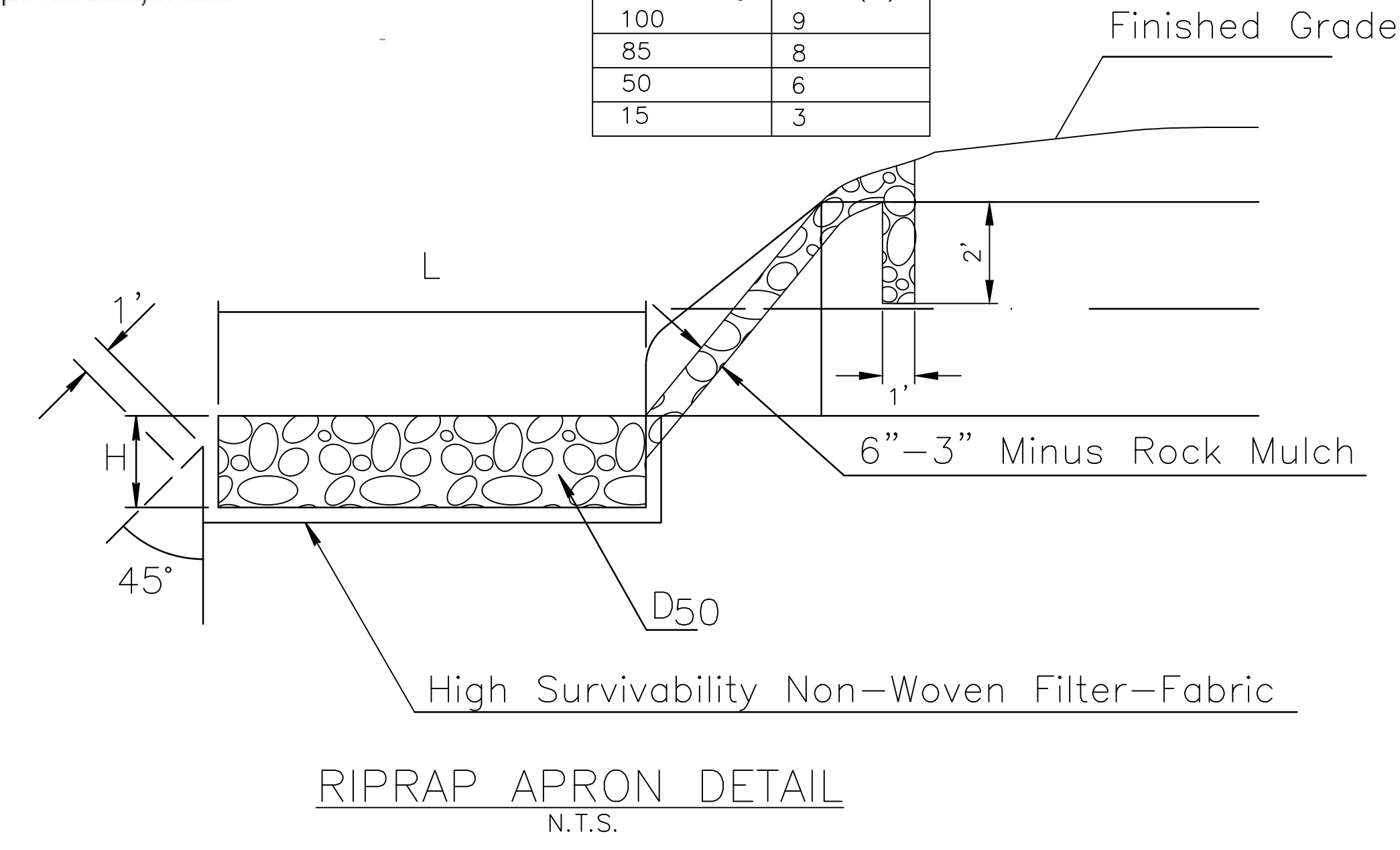
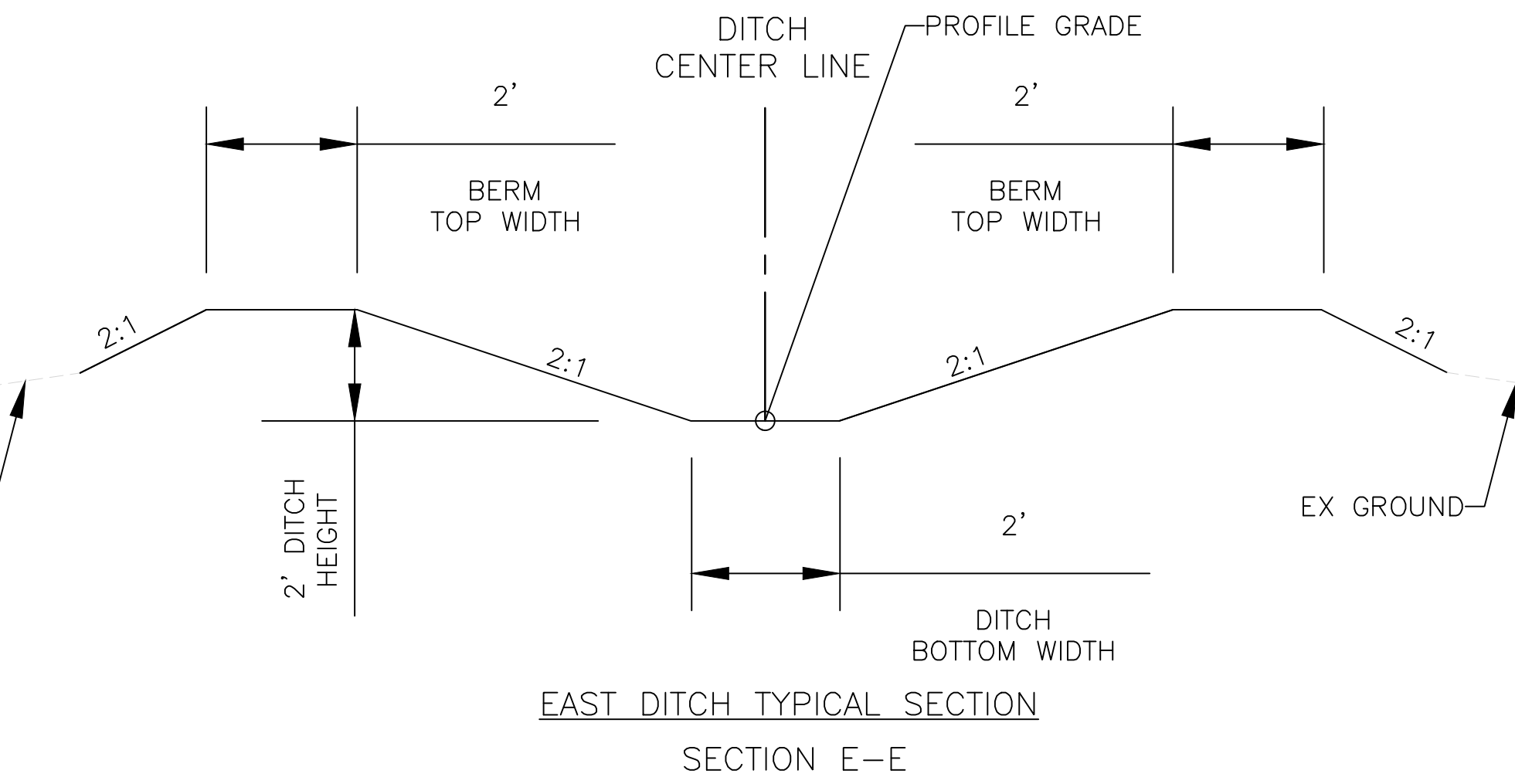
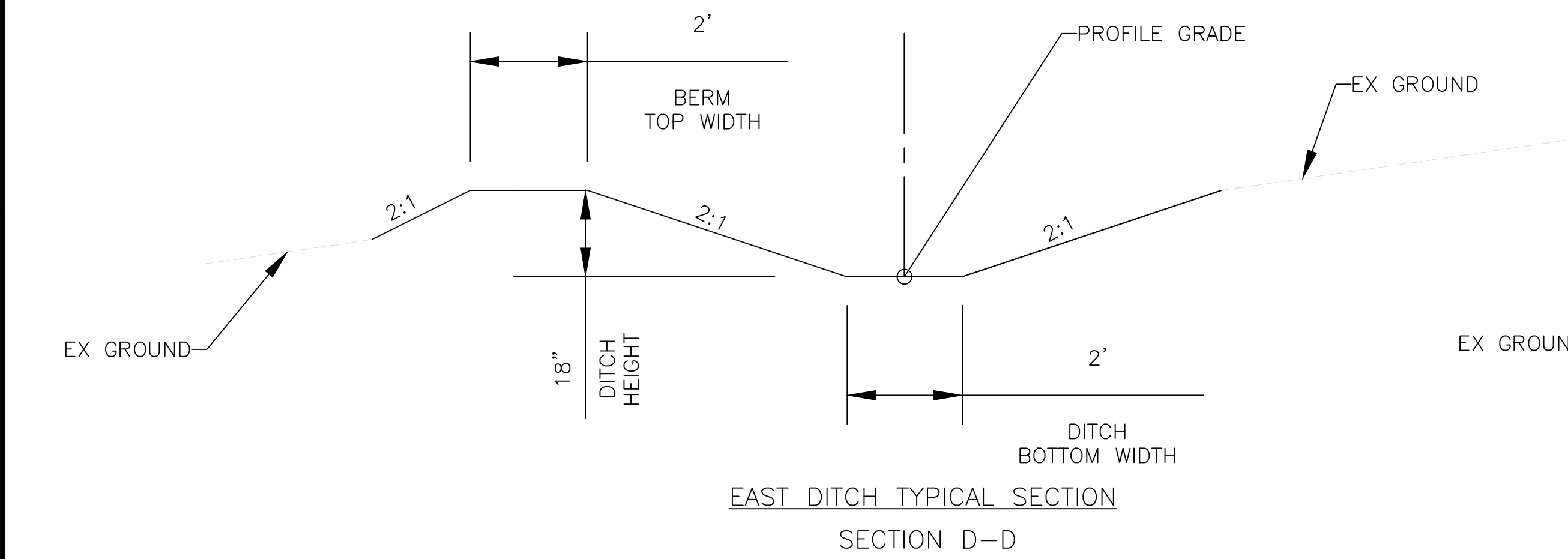
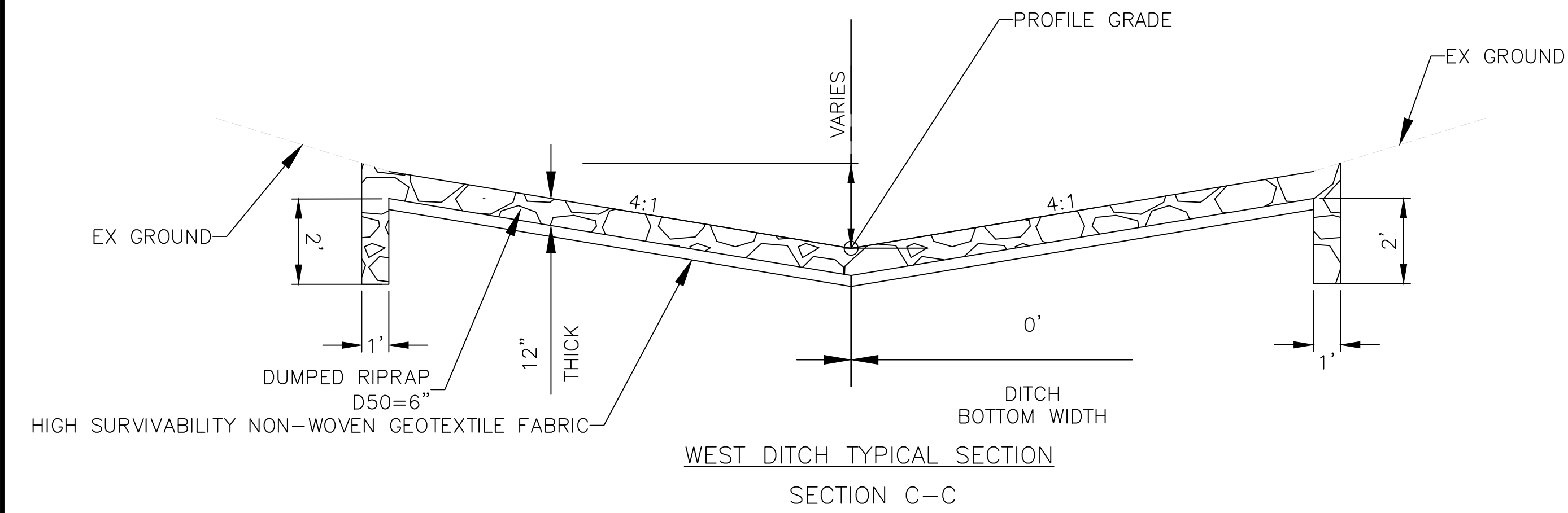
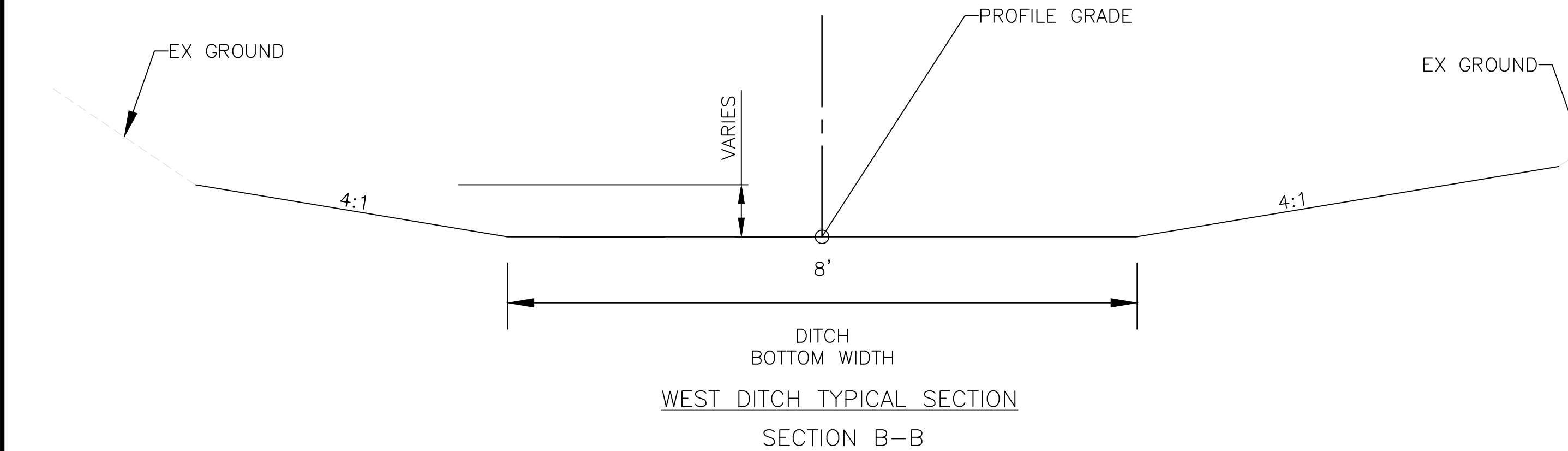
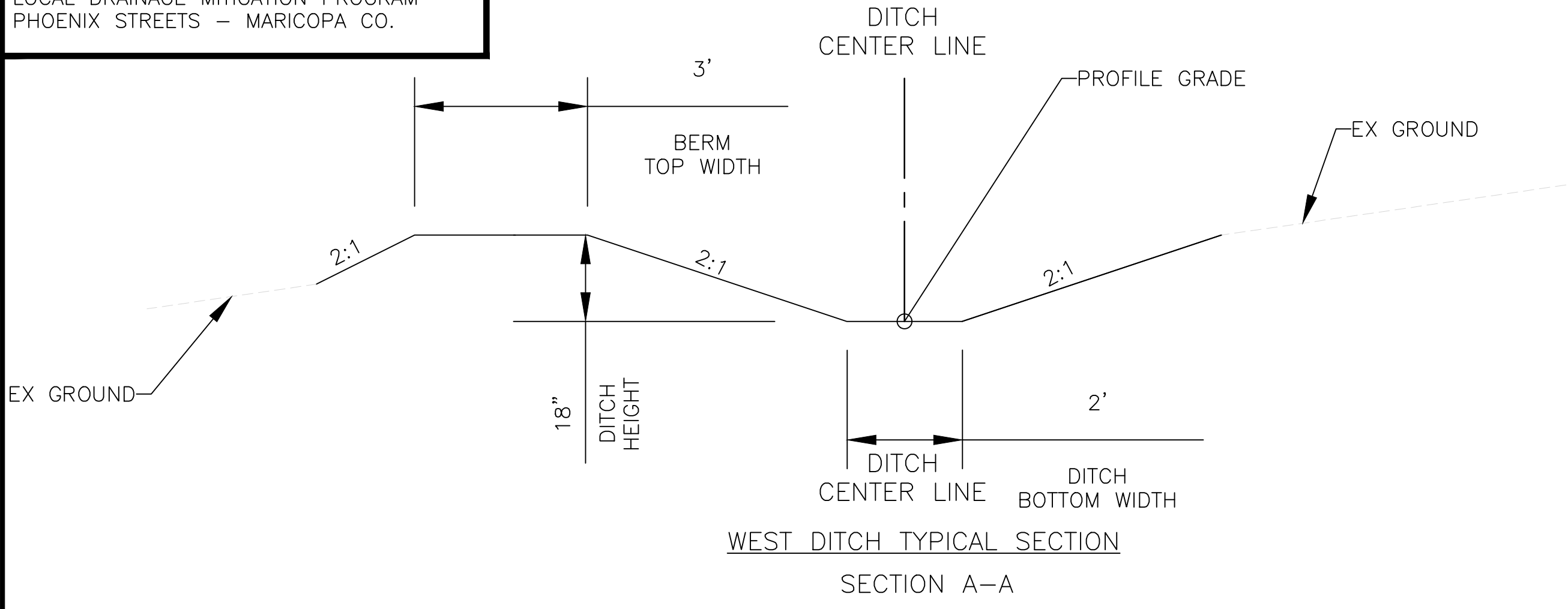
Total Weight Per Acre 35.0

(1) If unavailable, substitute with *Aristida pupurea* (Purple Threeawn) in same proportion

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



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

**DRAINAGE DETAIL SHEET**

CITY OF PHOENIX, ARIZONA  
STREET TRANSPORTATION DEPARTMENT

**NORTH LANE  
22ND ST TO 24TH ST  
ST83140121**

DR: LNB	DES: CJR	CHK: TMM	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	
SCALE: HORIZONTAL		SDD-1.01	

AMERICAN RESCUE PLAN ACT  
 LOCAL DRAINAGE MITIGATION PROGRAM  
 PHOENIX STREETS - MARICOPA CO.

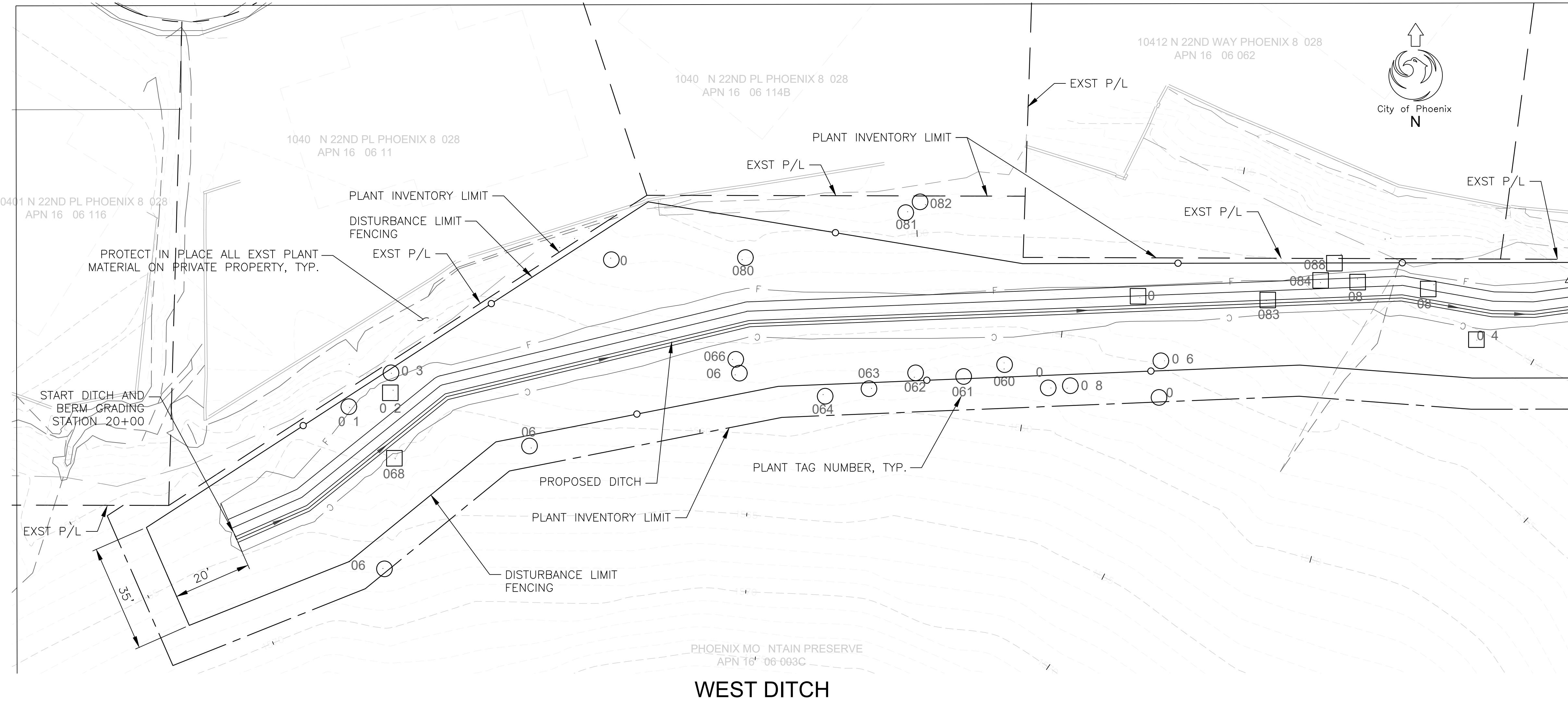


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140121	27	50	
DATE: 12/23		<b>AZTEC</b>		501 N. 44TH ST SUITE 200 PHOENIX, AZ 85008 PH: 602-454-9402 WWW.AZTEC.COM	
DRAWN: KA/JP		DESIGN: SEL	CHECKED: SEL		

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



MATCH LINE LS 1.02

- PLANT INVENTORY/SAVAGE LEGEND**
- Plant to be Removed\*
  - Plant to be Protected in Place\*\*
  - △ Plant to be Salvaged\*\*\*
- \* Remove as needed for construction, when possible plant shall be protected in place
- \*\* All plants on private property shall be protected in place
- \*\*\* Salvaged plant material is property of City of Phoenix and shall be managed at the direction of the City.

- NOTES**
- All plant material located on private property shall be protected in place, this is all inclusive and without exception.
  - See data tables, Sheet LS-2.01 and LS-2.02, for plant information per plant tag number.
  - Refer to Civil Grading and Drainage Plans for areas to be seeded.

**SONORAN DESERT SEED MIX:**  
 Type A: General Use

SPECIES	COMMON NAME	LBS/ACRE
Oleña tesota	Ironwood	3.0
Prosopis velutina	Velvet Mesquite	1.0
Parkinsonia microphylla	Foothills Palo Verde	4.0
Parkinsonia floridum	Blue Palo Verde	4.0
Ambrosia deltoidei	Bursage	4.0
Baileya multiradiata	Desert Marigold	1.5
Cassia covesii	Desert Senna	1.5
Encelia farinosa	Brittle Bush	1.0
Eriogonum fasciculatum	Buckwheat, var Patifolium	1.0
Erioneuron pulchellus(1)	Fluff Grass	1.0
Larrea tridentata	Creosote Bush	3.0
Lupinus sparsiflorus	Desert Lupine	2.0
Phacelia crenulate	-	2.0
Plantago insularis	Indian Wheat	5.0
Sphaeralcea ambigua	Desert Globe Mallow	1.5
<b>Total Weight Per Acre</b>		<b>35.0</b>

(1) If unavailable, substitute with Aristida purpurea (Purple Threeawn) in same proportion



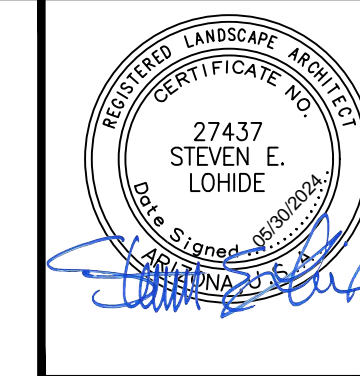
"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

**PLANT SALVAGE PLAN**  
 CITY OF PHOENIX, ARIZONA  
 STREET TRANSPORTATION DEPARTMENT

**NORTH LANE**  
 22ND ST TO 24TH ST  
 ST83140121

DR: KA/JP	DES: SEL	CHK: SEL	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	LS-1.01
SCALE: 1"=20' HORIZONTAL			

AMERICAN RESCUE PLAN ACT  
 LOCAL DRAINAGE MITIGATION PROGRAM  
 PHOENIX STREETS - MARICOPA CO.

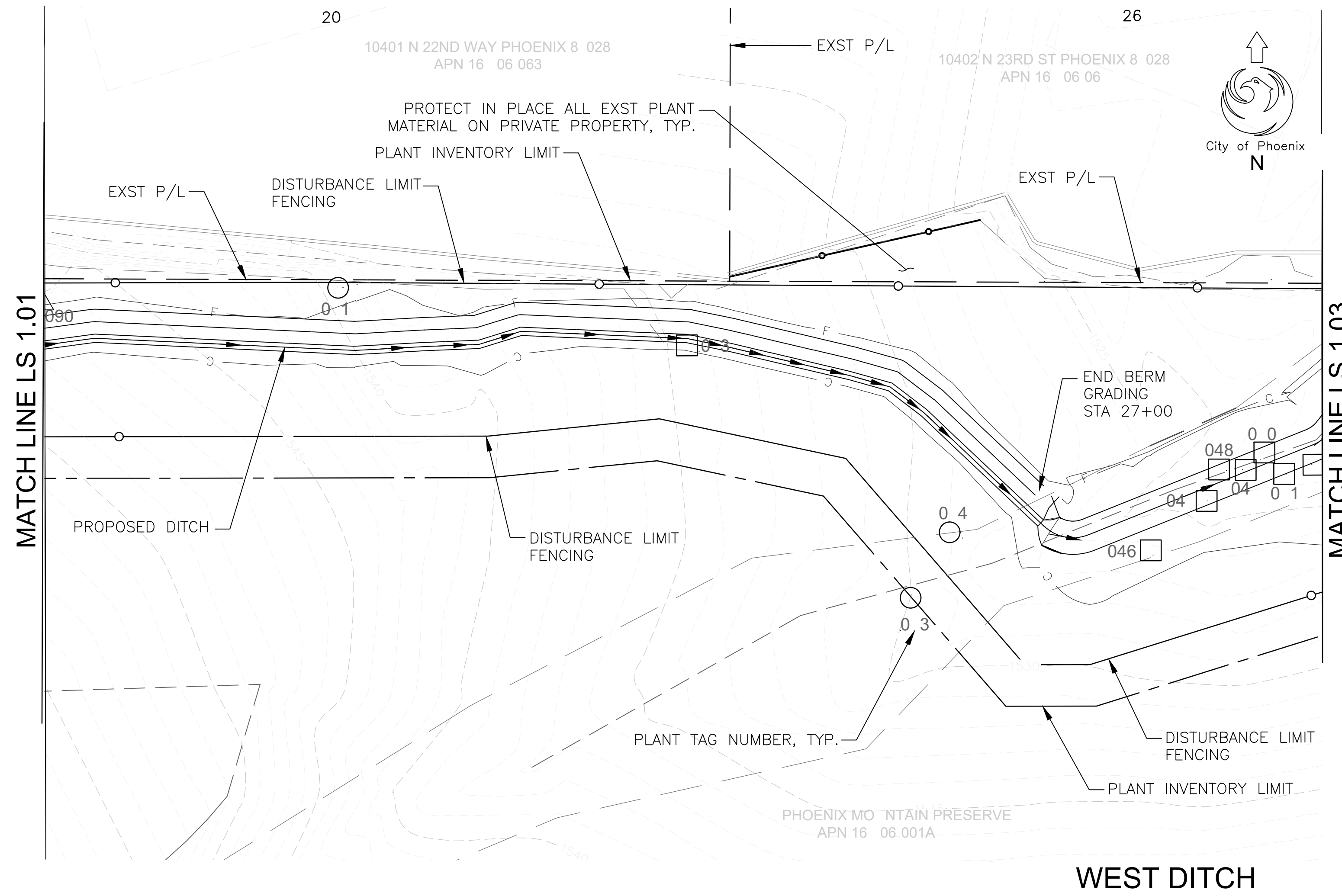


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140121	28	50	
DATE: 12/23		<b>AZTEC</b>		501 N. 44TH ST SUITE 300 PHOENIX, AZ 85008 PH: 602-454-9402 WWW.AZTEC.COM	
DRAWN: KA/JP		DESIGN: SEL	CHECKED: SEL		

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



**PLANT INVENTORY/SAVAGE LEGEND**

- Plant to be Removed\*
  - Plant to be Protected in Place\*\*
  - △ Plant to be Salvaged\*\*\*
- \* Remove as needed for construction, when possible plant shall be protected in place
- \*\* All plants on private property shall be protected in place
- \*\*\* Salvaged plant material is property of City of Phoenix and shall be managed at the direction of the City.

**NOTES**

1. All plant material located on private property shall be protected in place, this is all inclusive and without exception.
2. See data tables, Sheet LS-2.01 and LS-2.02, for plant information per plant tag number.
3. Refer to Civil Grading and Drainage Plans for areas to be seeded.

**SONORAN DESERT SEED MIX:**  
 Type A: General Use

SPECIES	COMMON NAME	LBS/ACRE
Oleña tesota	Ironwood	3.0
Prosopis velutina	Velvet Mesquite	1.0
Parkinsonia microphylla	Foothills Palo Verde	4.0
Parkinsonia floridum	Blue Palo Verde	4.0
Ambrosia deltoidei	Bursage	4.0
Baileya multiradiata	Desert Marigold	1.5
Cassia covesii	Desert Senna	1.5
Encelia farinose	Brittle Bush	1.0
Eriogonum fasciculatum	Buckwheat, var Patifolium	1.0
Eriogonum pulchellus(1)	Fluff Grass	1.0
Larrea tridentata	Creosote Bush	3.0
Lupinus sparsiflorus	Desert Lupine	2.0
Phacelia crenulate	-	2.0
Plantago insularis	Indian Wheat	5.0
Sphaeralcea ambigua	Desert Globe Mallow	1.5

Total Weight Per Acre 35.0

(1) If unavailable, substitute with Aristida purpurea (Purple Threeawn) in same proportion



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

**PLANT SALVAGE PLAN**

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

**NORTH LANE**  
**22ND ST TO 24TH ST**  
**ST83140121**

DR: KA/JP	DES: SEL	CHK: SEL	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	LS-1.02
SCALE: 1"=20' HORIZONTAL			

AMERICAN RESCUE PLAN ACT  
 LOCAL DRAINAGE MITIGATION PROGRAM  
 PHOENIX STREETS - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140121	29	50	
12/23					
DATE: 12/23					
DRAWN: KA/JP DESIGN: SEL CHECKED: SEL					

- PLANT INVENTORY/SAVAGE LEGEND**
- Plant to be Removed\*
  - Plant to be Protected in Place\*\*
  - △ Plant to be Salvaged\*\*\*
- \* Remove as needed for construction, when possible plant shall be protected in place
- \*\* All plants on private property shall be protected in place
- \*\*\* Salvaged plant material is property of City of Phoenix and shall be managed at the direction of the City.

- NOTES**
- All plant material located on private property shall be protected in place, this is all inclusive and without exception.
  - See data tables, Sheet LS-2.01 and LS-2.02, for plant information per plant tag number.
  - Refer to Civil Grading and Drainage Plans for areas to be seeded.

**SONORAN DESERT SEED MIX:**  
 Type A: General Use

SPECIES	COMMON NAME	LBS/ACRE
Oleña tesota	Ironwood	3.0
Prosopis velutina	Velvet Mesquite	1.0
Parkinsonia microphylla	Foothills Palo Verde	4.0
Parkinsonia floridum	Blue Palo Verde	4.0
Ambrosia deltoidei	Bursage	4.0
Baileya multiradiata	Desert Marigold	1.5
Cassia covesii	Desert Senna	1.5
Encelia farinosa	Brittle Bush	1.0
Eriogonum fasciculatum	Buckwheat, var Patifolium	1.0
Eriogonum pulchellus(1)	Fluff Grass	1.0
Larrea tridentata	Creosote Bush	3.0
Lupinus sparsiflorus	Desert Lupine	2.0
Phacelia crenulate	-	2.0
Plantago insularis	Indian Wheat	5.0
Sphaeralcea ambigua	Desert Globe Mallow	1.5

Total Weight Per Acre 35.0

(1) If unavailable, substitute with Aristida purpurea (Purple Threeawn) in same proportion

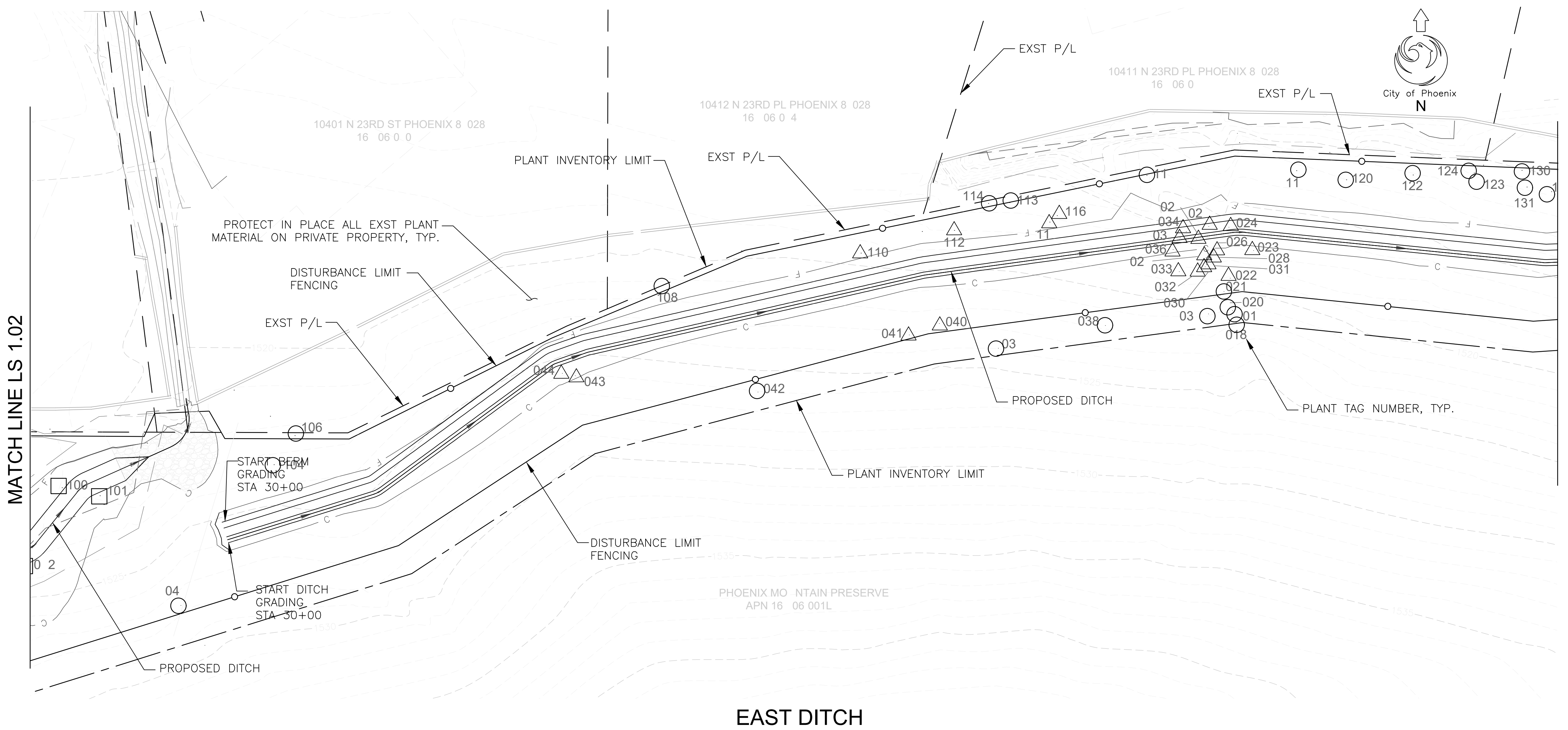


"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

**PLANT SALVAGE PLAN**  
 CITY OF PHOENIX, ARIZONA  
 STREET TRANSPORTATION DEPARTMENT

**NORTH LANE**  
 22ND ST TO 24TH ST  
 ST83140121

DR: KA/JP	DES: SEL	CK: SEL	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	LS-1.03
SCALE: 1"=20' HORIZONTAL			

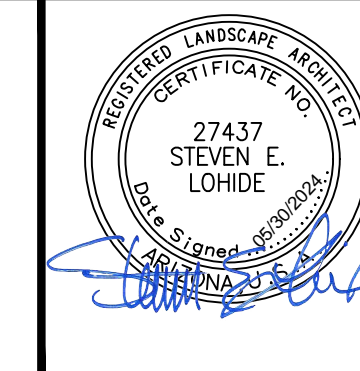


NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

AMERICAN RESCUE PLAN ACT  
 LOCAL DRAINAGE MITIGATION PROGRAM  
 PHOENIX STREETS - MARICOPA CO.



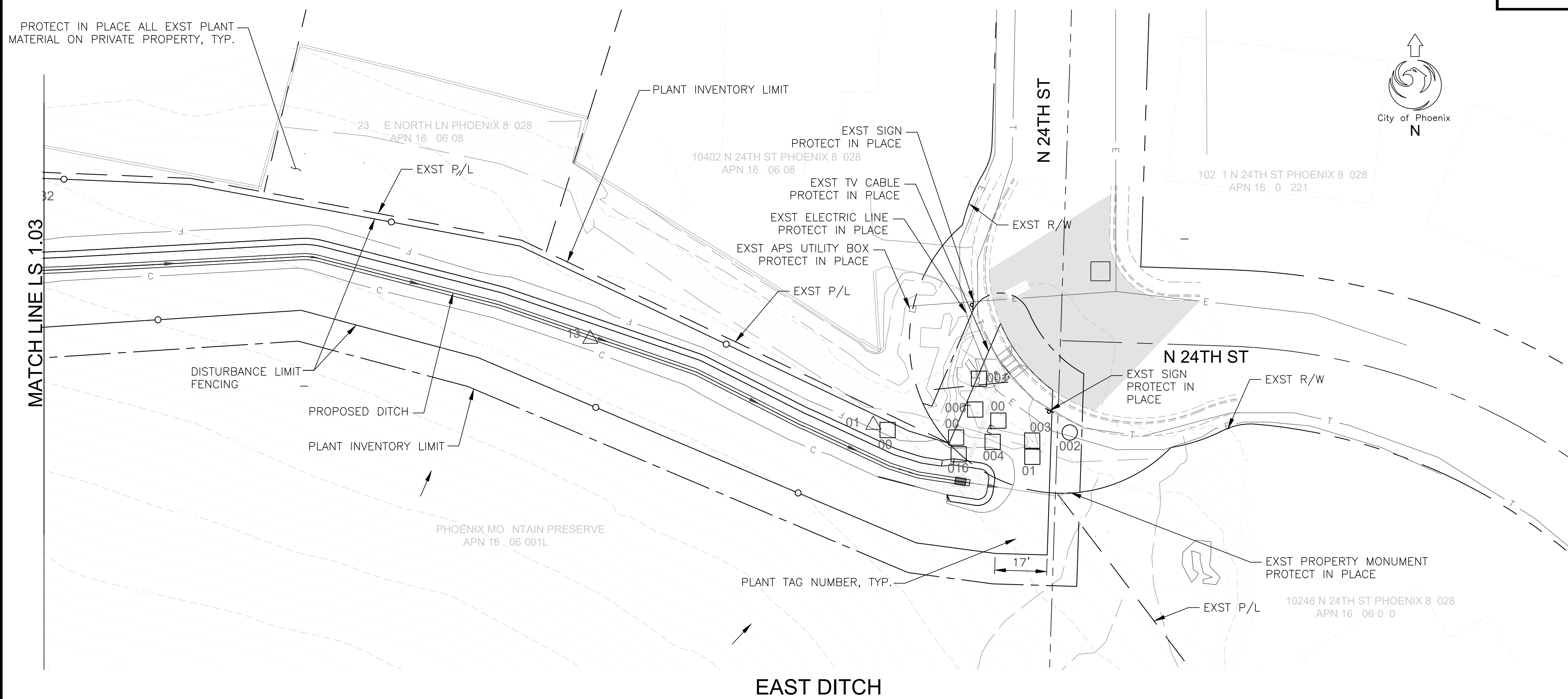
F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140121	30	50	
DATE: 12/23		<b>AZTEC</b>		501 N. 44TH ST SUITE 300 PHOENIX, AZ 85008 PH: 602-454-9492 www.aztec.com	
DRAWN: KA/JP	DESIGN: SEL	CHECKED: SEL			

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

PROTECT IN PLACE ALL EXST PLANT MATERIAL ON PRIVATE PROPERTY, TYP.



**PLANT INVENTORY/SAVAGE LEGEND**

- Plant to be Removed\*
  - Plant to be Protected in Place\*\*
  - △ Plant to be Salvaged\*\*\*
- \* Remove as needed for construction, when possible plant shall be protected in place
- \*\* All plants on private property shall be protected in place
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**NOTES**

1. All plant material located on private property shall be protected in place, this is all inclusive and without exception.
2. See data tables, Sheet LS-2.01 and LS-2.02, for plant information per plant tag number.
3. Refer to Civil Grading and Drainage Plans for areas to be seeded.

**SONORAN DESERT SEED MIX:**

Type A: General Use

SPECIES	COMMON NAME	LBS/ACRE
Oleaya tesota	Ironwood	3.0
Prosopis velutina	Velvet Mesquite	1.0
Parkinsonia microphylla	Foothills Palo Verde	4.0
Parkinsonia floridum	Blue Palo Verde	4.0
Ambrosia deltoidei	Bursage	4.0
Baileya multiradiata	Desert Marigold	1.5
Cassia covesii	Desert Senna	1.5
Encelia farinosa	Brittle Bush	1.0
Eriogonum fasciculatum	Buckwheat, var Patifolium	1.0
Eriogonum pulchellus(1)	Fluff Grass	1.0
Larrea tridentata	Creosote Bush	3.0
Lupinus sparsiflorus	Desert Lupine	2.0
Phacelia crenulate	-	2.0
Plantago insularis	Indian Wheat	5.0
Sphaeralcea ambigua	Desert Globe Mallow	1.5
<b>Total Weight Per Acre</b>		<b>35.0</b>

(1) If unavailable, substitute with Aristida purpurea (Purple Threeawn) in same proportion



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

**PLANT SALVAGE PLAN**

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

**NORTH LANE**  
**22ND ST TO 24TH ST**  
**ST83140121**

DR: KA/JP	DES: SEL	CHK: SEL	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	LS-1.04
SCALE: 1"=20' HORIZONTAL			

AMERICAN RESCUE PLAN ACT  
LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140121	31	50	
DATE: 12/23					
DRAWN: KA/JP					

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.				

TagNo	PlantType	Species	CommonName	Caliper*	Width*	Height	Condition	Status	Reason**	Notes
001	Tree	Parkinsonia spp	Palo Verde	6	20	15	Fair	NS	PRX	
002	Tree	Parkinsonia spp	Palo Verde	5	10	12	Fair	PIP		
003	Tree	Parkinsonia spp	Palo Verde	3	10	10	Good	NS	RS	
004	Tree	Parkinsonia spp	Palo Verde	6	10	12	Good	NS	RS	
005	Tree	Parkinsonia spp	Palo Verde	6	10	12	Good	NS	RS	
006	Tree	Parkinsonia spp	Palo Verde	6	10	12	Good	NS	RS	
007	Tree	Parkinsonia spp	Palo Verde	2	5	6	Fair	NS	RS	
008	NUMBER NOT USED									
009	Tree	Parkinsonia spp	Palo Verde	3	5	8	Good	NS	RS	
010	NUMBER NOT USED									
011	NUMBER NOT USED									
012	NUMBER NOT USED									
013	NUMBER NOT USED									
014	NUMBER NOT USED									
015	Tree	Prosopis spp	Mesquite	1	2	2	Fair	NS	RS PF	
016	Tree	Parkinsonia spp	Palo Verde	2	3	3	Fair	NS	RS	
017	Cactus	Echinocactus spp	Barrel Cactus	0	0	2.5	Fair	S		
018	Cactus	Cylindropuntia spp	Cholla	0	0	1	Fair	PIP		
019	Cactus	Cylindropuntia spp	Cholla	0	0	1	Fair	PIP		
020	Cactus	Cylindropuntia spp	Cholla	0	0	3.5	Fair	PIP		
021	Cactus	Cylindropuntia spp	Cholla	0	0	1	Fair	PIP		
022	Cactus	Cylindropuntia spp	Cholla	0	0	3	Fair	S		
023	Cactus	Cylindropuntia spp	Cholla	0	0	2	Fair	S		
024	Cactus	Cylindropuntia spp	Cholla	0	0	3.5	Fair	S		
025	Cactus	Cylindropuntia spp	Cholla	0	0	6.5	Fair	S		
026	Cactus	Cylindropuntia spp	Cholla	0	0	5	Fair	S		
027	Cactus	Cylindropuntia spp	Cholla	0	0	5.5	Fair	S		
028	Cactus	Cylindropuntia spp	Cholla	0	0	1.5	Fair	S		
029	Cactus	Cylindropuntia spp	Cholla	0	0	2	Fair	S		
030	Cactus	Cylindropuntia spp	Cholla	0	0	2	Fair	S		
031	Cactus	Cylindropuntia spp	Cholla	0	0	1.5	Fair	S		
032	Cactus	Cylindropuntia spp	Cholla	0	0	1.5	Fair	S		
033	Cactus	Cylindropuntia spp	Cholla	0	0	2.5	Fair	S		
034	Cactus	Cylindropuntia spp	Cholla	0	0	2.5	Fair	S		
035	Cactus	Cylindropuntia spp	Cholla	0	0	2	Fair	S		
036	Cactus	Cylindropuntia spp	Cholla	0	0	1.5	Fair	S		
037	Cactus	Cylindropuntia spp	Cholla	0	0	5	Fair	PIP		Multiple pups
038	Cactus	Cylindropuntia spp	Cholla	0	0	4	Fair	PIP		
039	Cactus	Echinocactus spp	Barrel Cactus	0	0	3	Good	PIP		
040	Cactus	Cylindropuntia spp	Cholla	0	0	2	Fair	S		
041	Cactus	Cylindropuntia spp	Cholla	0	0	2	Fair	S		
042	Cactus	Echinocereus spp	Hedgehog Cactus	0	0	1	Fair	PIP		
043	Cactus	Echinocactus spp	Barrel Cactus	0	0	2	Fair	S		
044	Cactus	Echinocereus spp	Hedgehog Cactus	0	0	1	Fair	S		
045	Tree	Parkinsonia spp	Palo Verde	12	20	15	Fair	PIP		
046	Tree	Parkinsonia spp	Palo Verde	6	12	12	Fair	NS	RS PF	
047	Tree	Parkinsonia spp	Palo Verde	8	12	12	Fair	NS	RS PF	
048	Tree	Parkinsonia spp	Palo Verde	8	15	15	Fair	NS	RS ER	
049	Tree	Parkinsonia spp	Palo Verde	4	10	10	Fair	NS	RS PF	
050	Tree	Parkinsonia spp	Palo Verde	10	15	12	Fair	NS	RS	
051	Tree	Acacia spp	Acacia	2	6	8	Poor	NS	RS PH	
052	Tree	Parkinsonia spp	Palo Verde	4	12	10	Fair	NS	RS ER	
053	Tree	Parkinsonia spp	Palo Verde	8	14	12	Fair	PIP		
054	Cactus	Echinocereus spp	Hedgehog Cactus	0	0	2.5	Fair	S	DEAD	
055	Tree	Parkinsonia spp	Palo Verde	6	12	10	Fair	PIP		
056	Tree	Parkinsonia spp	Palo Verde	6	15	15	Fair	PIP		
057	Tree	Parkinsonia spp	Palo Verde	8	18	12	Fair	NS	RS PF	
058	Tree	Parkinsonia spp	Palo Verde	6	8	8	Fair	PIP		

TagNo	PlantType	Species	CommonName	Caliper*	Width*	Height	Condition	Status	Reason**	Notes
059	Tree	Parkinsonia spp	Palo Verde	2	3	5	Fair	PIP		
060	Tree	Parkinsonia spp	Palo Verde	6	16	10	Fair	PIP		
061	Tree	Parkinsonia spp	Palo Verde	6	10	10	Fair	PIP		
062	Tree	Parkinsonia spp	Palo Verde	6	8	10	Fair	PIP		
063	Tree	Parkinsonia spp	Palo Verde	7	8	10	Fair	PIP		
064	Tree	Parkinsonia spp	Palo Verde	5	12	10	Poor	PIP		
065	Other	Fouquieria splendens	Ocotillo	0	0	10	Fair	PIP		20+ canes
066	Cactus	Echinocactus spp	Barrel Cactus	0	0	2.5	Good	PIP		
067	Tree	Parkinsonia spp	Palo Verde	2	3	5	Poor	PIP		
068	Tree	Parkinsonia spp	Palo Verde	1	2	4	Fair	NS	RS	
069	Cactus	Echinocactus spp	Barrel Cactus	0	0	1.5	Fair	PIP		
070	NUMBER NOT USED									
071	Tree	Parkinsonia spp	Palo Verde	6	12	10	Fair	PIP		
072	Tree	Parkinsonia spp	Palo Verde	1	2	3	Fair	NS	PRX	
073	Tree	Parkinsonia spp	Palo Verde	3	6	6	Fair	PIP		
074	NUMBER NOT USED									
075	NUMBER NOT USED									
076	NUMBER NOT USED									
077	NUMBER NOT USED									
078	NUMBER NOT USED									
079	Tree	Parkinsonia spp	Palo Verde	3	10	8	Fair	PIP		
080	Cactus	Echinocactus spp	Barrel Cactus	0	0	2	Fair	PIP		
081	Cactus	Echinocactus spp	Barrel Cactus	0	0	1.5	Fair	PIP		
082	Tree	Parkinsonia spp	Palo Verde	12	18	15	Fair	PIP		
083	Tree	Parkinsonia spp	Palo Verde	5	10	10	Fair	NS	RS PRX	
084	Tree	Parkinsonia spp	Palo Verde	2	2	4	Fair	NS	RS CD	
085	Tree	Parkinsonia spp	Palo Verde	5	10	14	Fair	NS	RS	
086	NUMBER NOT USED									
087	NUMBER NOT USED									
088	Tree	Parkinsonia spp	Palo Verde	3	4	6	Fair	NS	RS	
089	Tree	Parkinsonia spp	Palo Verde	8	14	12	Fair	NS	RS	
090	Cactus	Carnegiea gigantea	Saguaro	0	0	3	Good	S		
091	Tree	Parkinsonia spp	Palo Verde	4	6	8	Fair	PIP		
092	Tree	Prosopis spp	Mesquite	3	8	10	Good	PIP		
093	Tree	Parkinsonia spp	Palo Verde	1	4	3	Fair	NS	RS	
094	Tree	Parkinsonia spp	Palo Verde	1	3	4	Fair	PIP		
095	NUMBER NOT USED									
096	NUMBER NOT USED									
097	NUMBER NOT USED									
098	NUMBER NOT USED									
099	NUMBER NOT USED									
100	Tree	Parkinsonia spp	Palo Verde	3	8	8	Fair	NS	RS PF	
101	Tree	Parkinsonia spp	Palo Verde	5	10	14	Fair	NS	RS	
102	NUMBER NOT USED									

NOTES:

- \* Data collected for cactus plant size includes height only
- \*\* Reason pertains to no salvage (NS) plant material only

- Abbreviation Key:
- CD - Cambium Damage
  - DW - Dead Wood
  - ER - Exposed Roots
  - NS - No Salvage
  - PF - Poor Form
  - PH - Poor Health
  - PIP - Protect In Place
  - PRX - Proximity To Plant or Structure
  - RS - Rock Slope
  - S - Salvage



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

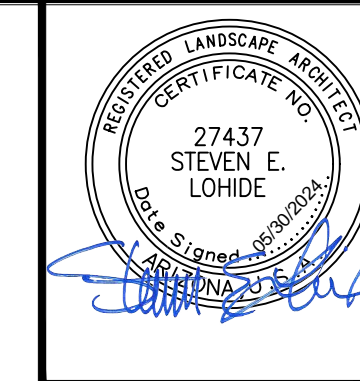
**PLANT DATA TABLES**

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

**NORTH LANE**  
22ND ST TO 24TH ST  
ST83140121

DR: KA/JP | DES: SEL | CK: SEL  
DATE: 12/23 | DATE: 12/23 | DATE: 12/23  
SCALE: N/A HORIZONTAL  
DRAWING SERIES NO. LS-2.01

AMERICAN RESCUE PLAN ACT  
LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140121	32	50	
DATE: 12/23		<b>AZTEC</b>		501 N. 44TH ST SUITE 200 PHOENIX, AZ 85008 PH: 602-454-9422 www.aztec.com	
DRAWN: KA/JP		DESIGN: SEL	CHECKED: SEL		

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

TagNo	PlantType	Species	CommonName	Caliper*	Width*	Height	Condition	Status	Reason**	Notes
103	NUMBER NOT USED									
104	Tree	Parkinsonia spp	Palo Verde	1	4	4	Fair	PIP		
105	NUMBER NOT USED									
106	Tree	Parkinsonia spp	Palo Verde	8	20	25	Fair	PIP		PP
107	NUMBER NOT USED									
108	Cactus	Opuntia spp	Bunny Ear Cactus	0	0	1	Fair	S		mass Half/Half
109	Cactus	Opuntia spp	Bunny Ear Cactus	0	0	1	Fair	PIP		mass Half/Half
110	Cactus	Opuntia spp	Bunny Ear Cactus	0	0	0	Fair	S		mass Half/Half
111	NUMBER NOT USED									
112	Cactus	Opuntia spp	Bunny Ear Cactus	0	0	1	Fair	S		
113	Cactus	Cylindropuntia spp	Cholla	0	0	7	Fair	PIP		
114	Cactus	Cylindropuntia spp	Cholla	0	0	3	Fair	PIP		
115	Cactus	Cylindropuntia spp	Cholla	0	0	2.5	Fair	S		
116	Cactus	Opuntia spp	Bunny Ear Cactus	0	0	1	Fair	S		
117	Cactus	Opuntia spp	Bunny Ear Cactus	0	0	1	Fair	PIP		
118	NUMBER NOT USED									
119	Cactus	Opuntia spp	Prickly Pear Cactus	0	0	1	Fair	PIP		mass Half/Half
120	Cactus	Opuntia spp	Bunny Ear Cactus	0	0	1	Fair	PIP		mass Half/Half
121	NUMBER NOT USED									
122	Cactus	Opuntia spp	Bunny Ear Cactus	0	0	1	Fair	PIP		mass Half/Half
123	Tree	Parkinsonia spp	Palo Verde	2	2	6	Fair	PIP		
124	Tree	Parkinsonia spp	Palo Verde	3	3	6	Fair	PIP		
125	NUMBER NOT USED									
126	NUMBER NOT USED									
127	NUMBER NOT USED									
128	NUMBER NOT USED									
129	NUMBER NOT USED									
130	Tree	Parkinsonia spp	Palo Verde	6	15	18	Fair	PIP		
131	Tree	Parkinsonia spp	Palo Verde	5	15	10	Poor	PIP		
132	Tree	Parkinsonia spp	Palo Verde	9	15	10	Poor	PIP		
133	NUMBER NOT USED									
134	NUMBER NOT USED									
135	Cactus	Cactaceae spp	Mammillaria Cactus	0	0	0	Fair	S		

NOTES:

- \* Data collected for cactus plant size includes height only
- \*\* Reason pertains to no salvage (NS) plant material only

Plants 109–110 and 119–122 are plant groupings of cactus, any part of plant located on private property shall be protected in place, any part of plant on City of Phoenix property that will be disturbed by construction activity shall be salvaged. If construction activity will have no impact, protect in place all parts of plant.

Abbreviation Key:

- CD – Cambium Damage
- DW – Dead Wood
- ER – Exposed Roots
- NS – No Salvage
- PF – Poor Form
- PH – Poor Health
- PIP – Protect In Place
- PRX – Proximity To Plant or Structure
- RS – Rock Slope
- S – Salvage



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

**PLANT DATA TABLES**

CITY OF PHOENIX, ARIZONA  
STREET TRANSPORTATION DEPARTMENT

NORTH LANE  
22ND ST TO 24TH ST  
ST83140121

DR: KA/JP | DES: SEL | CK: SEL | DRAWING SERIES NO.  
DATE: 12/23 | DATE: 12/23 | DATE: 12/23  
SCALE: N/A HORIZONTAL LS-2.02

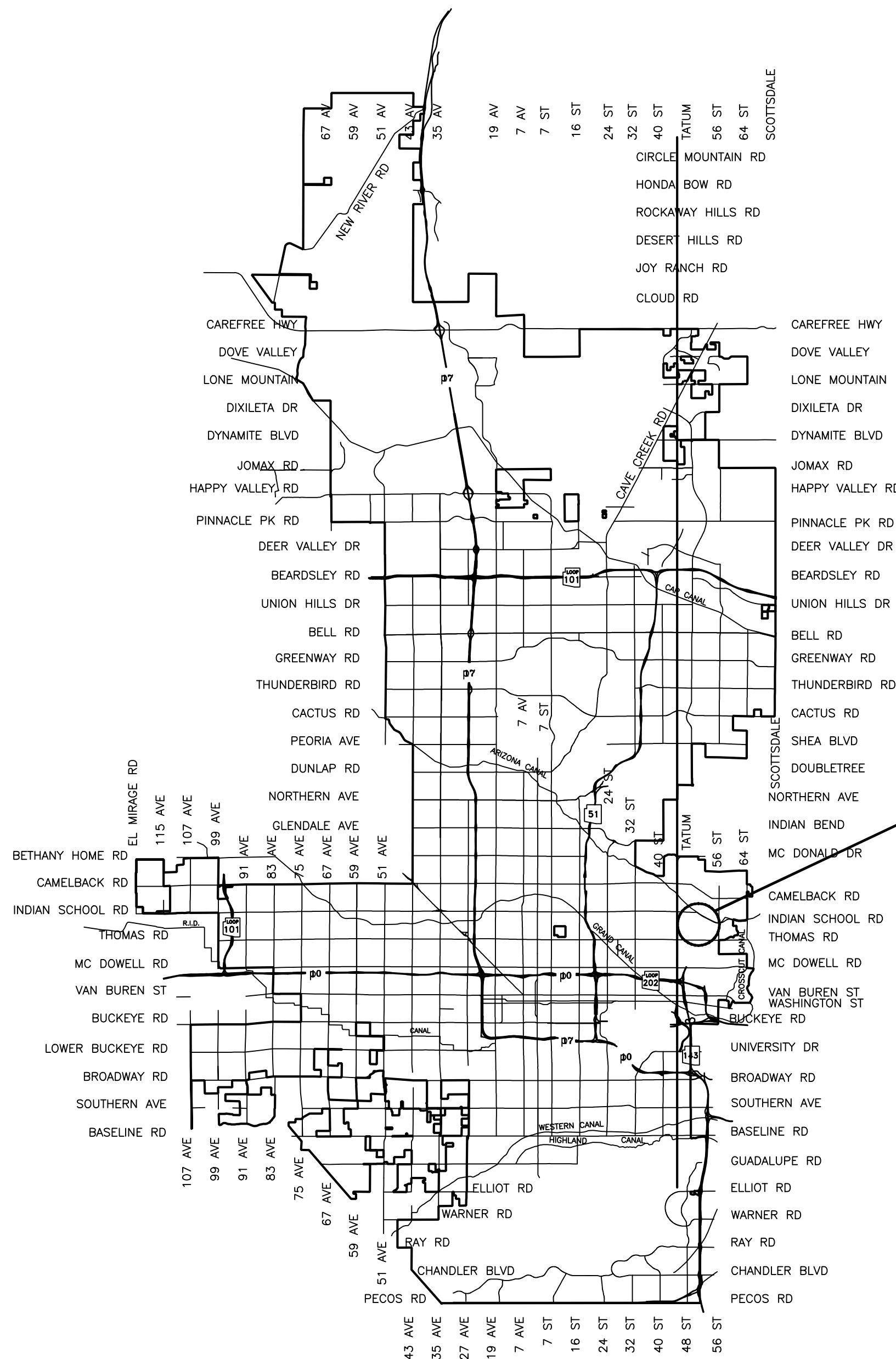


CITY OF PHOENIX  
STREET TRANSPORTATION DEPARTMENT  
DESIGN & CONSTRUCTION MANAGEMENT DIVISION  
AMERICAN RESCUE PLAN ACT  
LOCAL DRAINAGE MITIGATION PROJECT PACKAGE 1

50TH PLACE & CLARENDON  
ST83140122

FINAL DESIGN SUBMITTAL

ST83140122  
CLARENDON AVENUE  
50TH PLACE & CLARENDON AVE



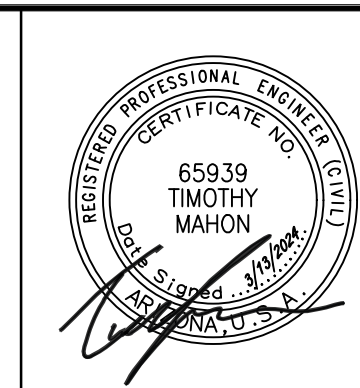
 VICINITY MAP  
NTS  
City of Phoenix



2024

**CITY BENCHMARKS**

- ▲ COP BRASS CAP IN HAND HOLE, AT THE MIDPOINT OF E CLARENDON AVE BETWEEN 49TH PLACE AND N 50TH STREET  
EL 1238.92 (NGVD-29)



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST83140122	33	50	

**AZTEC**  
501 N. 44TH ST  
SUITE 300  
PHOENIX, AZ 85008  
PH: 602-444-0402  
www.aztec.com

DRAWN: LNB | DESIGN: CJR | CHECKED: TMM | DATE: 12/23

**MAYOR**  
KATE GALLEGO  
**CITY MANAGER**  
JEFFREY BARTON  
**CITY COUNCIL**

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

**INDEX OF SHEET**

SHEET NO.	DWG. SERIES NO.	SHEET TITLE
1	G-0.01	COVER
2-3	G-1.01-1.02	LEGEND AND NOTES
4	G-2.01	GEOMETRIC CONTROL
5	G-3.01	QUANTITY SUMMARY
6	SD-1.01	DRAINAGE PLAN
7-8	SDD-1.01-1.02	DRAINAGE DETAIL
9	SDD-1.03	STAKING DETAIL
10	SDD-1.04	VALLEY GUTTER DETAIL

LENGTH OF PROJECT: CLARENDON AVENUE = 283 LF  
AREA OF DISTURBANCE = 2672 SQ.FT. = 0.06 ACRES

APPROVED  6/4/2024  
NAZAR NABATY, FLOODPLAIN ADMINISTRATOR DATE

APPROVED  6/4/2024  
ERIC J. FROBERG, P.E., CITY ENGINEER DATE



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

ST83140122: 50TH PLACE & CLARENDON

AMERICAN RESCUE PLAN ACT  
LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS – MARICOPA CO.

**LEGEND AND NOTES**



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140122	34	50	
12/23					<b>AZTEC</b>
DATE:					
DRAWN: LNB		DESIGN: CJR		CHECKED: TMM	

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

**LEGEND**

- ▲ BENCHMARK
- NEW SURVEY MONUMENT – M.A.G. DETAIL 120-1 TYPE "B"
- ◻ NEW SURVEY MONUMENT – M.A.G. DETAIL 120-1 TYPE "A"
- ===== COMBINED CURB & GUTTER – M.A.G. DETAIL 220 TYPE "A"
- ⊠ BACKFILL TYPE & SQ. YD. PVMT. REPLACEMENT – C.O.P. DETAIL P1200
- ▨ EXISTING CONCRETE PAVEMENT OR SIDEWALK
- ▨ NEW CONCRETE SIDEWALK – STD. DETAIL P1230
- ▨ NEW CONCRETE DRIVEWAY OR ALLEY ENT. PER DETAIL NO. ON PLANS
- ▲ NEW CONCRETE SIDEWALK RAMP PER DETAIL ON PLANS
- ∇ AVERAGE GROUND ELEVATION AT R/W LINE
- ◇ BACKFILL COMPACTION TYPE
- EXISTING DITCH
- 24" IRR (SRP) EXISTING IRRIGATION LINE W/SIZE (NOTE PRIVATE, SALT RIVER OR R.I.D.)
- EXISTING IRRIGATION STRUCTURE
- EXISTING IRRIGATION STANDPIPE
- NEW IRRIGATION STANDPIPE – M.A.G. DETAIL 503
- NEW IRRIGATION VALVE – M.A.G. DETAIL 506 W/ CONC. SCOURING BASIN
- IRRIGATION BERM
- NEW IRRIGATION STRUCTURE PER DETAIL ON PLANS
- 12" DIP W EXISTING WATER LINE W/SIZE & TYPE (12" AND SMALLER)
- 36" DIP W EXISTING WATER LINE W/SIZE & TYPE (GREATER THAN 12")
- ADJUST EXIST. WATER VALVE BOX – C.O.P. DETAIL P1391
- 3/4" W □ WATER SERVICE W/SIZE AND WATER METER BOX
- ⊗ EXISTING FIRE HYDRANT
- ⊗ NEW OR RELOCATED FIRE HYDRANT BY CONTRACTOR
- T.N. EXISTING WATER VALVE W/TOP OF OPERATING NUT ELEVATION
- 8" VCP S EXISTING SANITARY SEWER LINE W/SIZE & TYPE (12" AND SMALLER)
- 30" VCP S EXISTING SANITARY SEWER LINE W/SIZE & TYPE (GREATER THAN 12")
- EXISTING MANHOLE
- ⊙ NEW MANHOLE
- CATCH BASIN, GUTTER INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB & GUTTER INLET (LENGTH TO SCALE)
- SD EXISTING STORM DRAIN LINE W/SIZE & TYPE (GREATER THAN 12")
- NEW PIPE FOR STORM DRAIN OR IRRIGATION LINE
- 4" G EXISTING GAS LINE W/SIZE
- E EXISTING UNDERGROUND ELECTRIC CABLE OR SINGLE CONDUIT
- E-40 EXISTING UNDERGROUND ELECTRIC DUCT (SPECIFY NUMBER)
- T EXISTING TELEPHONE BURIED CABLE OR SINGLE CONDUIT
- T-40 EXISTING UNDERGROUND TELEPHONE DUCT (SPECIFY NUMBER)
- CATV EXISTING UNDERGROUND CABLE TV
- FO EXISTING UNDERGROUND FIBER OPTIC LINE
- EXISTING TRAFFIC SIGNAL POLE W/MAST ARM & SIGNAL INDICATIONS
- ▲ EXISTING STREET OR TRAFFIC SIGN
- EXISTING UTILITY POLE W/LINE INDICATING WIRE DIRECTION
- EXISTING WIRE FENCE
- EXISTING BLOCK FENCE
- EXISTING WOOD FENCE
- MAIL BOX
- EXISTING POWER POLE DOWN GUY ANCHOR
- EXISTING STREET LIGHT & POLE
- ⊗ EXISTING TREE OR STUMP TO BE REMOVED – MORE THAN 12" DIA.
- ⊙ EXISTING TREE TO BE TRANSPLANTED BY CONTRACTOR
- EASEMENT LINE
- EXISTING OR NEW R/W LINE
- PAVEMENT CENTER LINE OR MONUMENT LINE
- ⊙ EXISTING TREE OR STUMP TO BE REMOVED 12" DIA. OR LESS (NON PAY ITEM)
- ⊙ EXISTING TREE TO REMAIN

**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. ALL STORM SEWER MANHOLES ARE TO BE CONSTRUCTED WITHOUT STEPS.
3. NEW MANHOLE COVERS LOCATED IN SIDEWALK SHALL BE GROUND TO OBLITERATE RAISED LETTERING, AND PROVIDE A SMOOTH SURFACE FLUSH WITH THE ADJACENT SIDEWALK.
4. PIPE CONNECTIONS TO EXISTING CONCRETE PIPE MAINS SHALL BE MADE IN ACCORDANCE WITH DETAILS CALLED OUT ON THE PLANS. CONNECTION TO MAINS SHALL NOT BE CLOSER THAN 5', CENTER TO CENTER.
5. PIPE CONNECTIONS TO NEW PRECAST CONCRETE PIPE MAINS SHALL BE MADE WITH FACTORY MADE WYES OR TEES. THE DETAIL OF THE FITTINGS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE. PIPE CONNECTIONS TO NEW CAST IN PLACE CONCRETE PIPE MAINS SHALL BE MADE PER COP DETAIL P1576.
6. CATCH BASIN CONNECTOR PIPES SHALL BE LAID ON A STRAIGHT ALIGNMENT AND SLOPE UNLESS OTHERWISE SPECIFIED. IF BREAKS IN ALIGNMENT OR SLOPE ARE NECESSARY TO MEET FIELD CONDITIONS. THE MAXIMUM DEFLECTION SHALL BE 22-1/2". THE BEND SHALL BE COLLARED ACCORDING TO COP DETAIL P1505. ANY ANGLE BENDS GREATER THAN 22-1/2" SHALL BE PREFABRICATED.
7. CONNECTOR PIPES SHALL CONNECT TO CATCH BASIN WALLS AT AN ANGLE NOT TO EXCEED 22-1/2 FROM PERPENDICULAR.
8. 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.
9. A ONE (1) FOOT MINIMUM VERTICAL SEPARATION FROM DRY UTILITIES CROSSINGS SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAIN, OR WATER SERVICE TO OUTSIDE UNDERGROUND UTILITY.
10. AT LEAST TWO WORKING DAYS BEFORE CONSTRUCTION, THE CONTRACTOR SHALL CONTACT BLUESTAKE TO FIND AND FLAG UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT OTHER APPROPRIATE UTILITIES DIRECTLY IF THEY ARE NOT ON BLUESTAKE SYSTEM.
11. VERTICAL CONTROL IS BASED ON NATIONAL GEODETIC SURVEY.
12. UNLESS OTHERWISE NOTED, STATIONS SHOWN ON PIPE PROFILES ARE ALONG CENTERLINE OF PIPE.
13. UNLESS OTHERWISE NOTED, PIPE SHALL BE BEDDED IN ACCORDANCE WITH CITY OF PHOENIX DETAIL P1200.
14. CATCH BASINS ARE STATIONED PERPENDICULAR TO THE CENTERLINE OF THE STREET AT THE CENTERLINE OF THE MAINTENANCE BASIN.
15. SANITARY SEWER MAINS AND TAPS CROSSING OVER STORM DRAIN MAINS SHALL BE SUPPORTED PER MAG DETAIL 403-1, 403-2, OR 403-3.
16. ALL EXISTING PRECAST CONCRETE SAFETY CURBS AND ALL EXISTING WOODEN PARKING CURBS WHICH ARE INSIDE THE RIGHT OF WAY AND APPROXIMATELY PARALLEL TO THE NEW CURB LINE SHALL BE RESET ON THE RIGHT OF WAY DIRECTLY OPPOSITE THEIR EXISTING LOCATION, WITH THE BACK EDGE ON THE RIGHT OF WAY LINE. ALL OTHER PRECAST CONCRETE SAFETY CURBS INSIDE THE STREET RIGHT OF WAY SHALL BE SALVAGED AND STOCK PILED FOR THE OWNER AT THE RIGHT OF WAY LINE.
17. EXISTING PRECAST CONCRETE SAFETY CURBS OUTSIDE THE RIGHT OF WAY WHICH ARE DISTURBED BY NEW CONSTRUCTION SHALL BE RESET IN THEIR ORIGINAL POSITION BY THE CONTRACTOR. THERE WILL BE NO SEPARATE MEASUREMENT OR PAYMENT FOR THIS WORK, THE COST BEING CONSIDERED INCLUDED.
18. ALL EXISTING DRIVEWAYS AND ALL EXISTING ALLEYS SHALL BE GRADED TO MATCH THE NEW WORK IN ACCORDANCE WITH STD DETAIL P1164, UNLESS OTHERWISE SPECIFIED. EXISTING SURFACING SHALL BE REMOVED AND REPLACED AS NECESSARY.

**NOTES CONT**

19. CONTACT INSPECTOR IF LESS THAN 6 INCHES OR COVER WILL BE MAINTAINED BELOW SCARIFICATION DEPTH CONTRACTOR TO FIELD VERIFY DEPTH AT LOCATION OF NEW AC AND SIDEWALK.
20. IN HISTORIC PRESERVATION ZONES, THE CONTRACTOR SHALL DISTURB AS LITTLE OF HISTORIC SIDEWALK AS POSSIBLE. UNLESS OTHERWISE PROVIDED ON THE PLANS:
  - THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING AC DRIVEWAYS SHALL BE FILLED WITH A MINIMUM OF 3" ACSC ON 100% COMPACTED NATIVE SOIL. WHERE EXISTING PAVEMENT AND BASE THICKNESS EXCEED THE MINIMUMS, MATCH THE EXISTING.
  - THE SPACE BETWEEN THE BACK OF NEW SIDEWALKS AND EXISTING PRIVATE SIDEWALKS, AND THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING PCC DRIVEWAYS SHALL BE FILLED WITH PCC. THE THICKNESS AND CLASS SHALL MATCH THAT OF THE NEW SIDEWALK OR DRIVEWAY ENTRANCE.
  - THE SPACE BETWEEN THE BACK OF THE SIDEWALKS AND EXISTING AC PARKING LOTS, WHICH FALL WITHIN OR ABUT THE R/W SHALL BE FILLED WITH 2" ACSC ON 100% COMPACTED NATIVE SOIL.
21. EXISTING IRRIGATION BERMS DISTURBED BY NEW CONSTRUCTION SHALL BE RECONSTRUCTED AS SHOWN ON PLANS.
22. CATCH BASIN ACCESS FRAME AND COVERS SHALL BE CONSTRUCTED PER COP STANDARD DETAIL.

**STR CT RAL NOTES**

1. "CLEAR" DIMENSIONS FOR DEPTH OF REINFORCING STEEL ARE FROM FACE OF CONCRETE TO FACE OF BARS.
2. ALL EXPOSED EDGES OF CONCRETE SHALL BE BEVELED OR ROUNDED.
3. ALL EXPOSED CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) STANDARD SPECIFICATION 505.9 – FINISHING CONCRETE, UNLESS OTHERWISE SPECIFIED.

**ABBREVIATIONS**

PC = PIPE CONNECTION  
MH = MANHOLE  
CB = CATCH BASIN

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

**LEGEND NOTES**

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

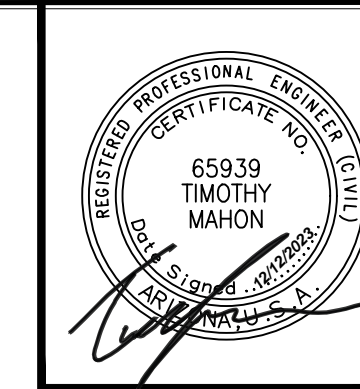
**0TH PLACE AND CLARENDON AVE**  
**ST83140122**

DR: LNB	DES: CJR	CHK: TMM	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	
SCALE: NONE	HORIZONTAL	G-1.01	

AMERICAN RESCUE PLAN ACT  
LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS – MARICOPA CO.

**WATER GENERAL NOTES**

**WATER NOTES CONT.**



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140122	35	50	
12/23		<b>AZTEC</b>		501 N. 44th ST SUITE 200 PHOENIX, AZ 85008 PH: 602-454-0402 www.aztec.com	
DATE:		DRAWN: LNB		DESIGN: CJR	CHECKED: TMM

REVISION BY	CITY OF PHOENIX	DESCRIPTION	NO.	DATE

REVISION BY	CITY OF PHOENIX	DESCRIPTION	NO.	DATE

REVISION BY	CITY OF PHOENIX	DESCRIPTION	NO.	DATE

- ALL WATER VALVE BOXES SHALL BE PER CITY OF PHOENIX SUPPLEMENT TO MAG. SPECIFICATIONS AND DETAILS P1391, TYPE A ONLY.
- ALL CONSTRUCTION IN THE 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.
- 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 305-1 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.
- THE FOLLOWING M.A.G. DETAILS ARE SPECIFICALLY NOT APPROVED:
  - 302-1 JOINT RESTRAINT WITH TIE RODS
  - 302-2 JOINT RESTRAINT WITH TIE RODS – ANCHOR BLOCKS
  - 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
- COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601 AND CITY OF PHOENIX SUPPLEMENTS.
- NEW WATER LINES ARE TO BE BUILT IN ACCORDANCE WITH THE CITY OF PHOENIX "STANDARD UTILITY LOCATIONS".
- 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.
- PIPE DEFLECTION SHALL BE PER MANUFACTURERS' RECOMMENDATIONS.
- ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE CURRENT CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL".
- THE CONTRACTOR IS TO NOTIFY THE PUBLIC THAT WILL BE AFFECTED BY ANY SHUTDOWNS A MINIMUM OF 48 HOURS IN ADVANCE.
- 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.
- 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.
- A TWO (2) FOOT MINIMUM VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN ANY SEWER 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.
- EXCEPTIONS OR DEVIATIONS FROM THE ABOVE MINIMUM CLEARANCES MUST BE APPROVED AND SHOWN ON THE APPROVED WATER SEWER PLANS. WHEN UTILITY CONFLICTS ARE FOUND DURING CONSTRUCTION, ALL CHANGES AND REVISIONS MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- 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.
- ALL SERVICES SHALL RUN IN A STRAIGHT LINE FROM THE WATER MAIN TO THE METER BOX.
- NEITHER WATER SERVICE METER BOX NOR ANY PORTION OF A WATER SERVICE SHALL BE INSTALLED UNDER AN EXISTING OR PROPOSED DRIVEWAY OR SIDEWALK RAMP.
- CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION AT NO COST TO THE CITY.

- RECORD DRAWING SUBMITTALS MUST COMPLY PER THE WATER SERVICES DEPARTMENT ENGINEERING POLICY P-68 AND P-69. A COPY OF THE POLICY CAN BE OBTAINED IN THE DEPARTMENT'S WEBSITE: [HTTP://PHOENIX.GOV/WATERSERVICES/DESIGN/ENGPOLICIES/INDEX.HTML](http://PHOENIX.GOV/WATERSERVICES/DESIGN/ENGPOLICIES/INDEX.HTML)
- 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.
- 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.
- A PAVEMENT CUT SURCHARGE SHALL BE ASSESSED ON THIS PROJECT FOR ANY TRENCHING OR POTHOLING IN NEW ASPHALT PAVEMENT THAT IS LESS THAN 30 MONTHS OLD. SURCHARGE FEES ASSESSED ARE IN ADDITION TO THE REGULAR PERMIT FEES AND ARE OVER AND ABOVE ANY SPECIAL BACKFILL, COMPACTION, AND PAVEMENT REPLACEMENT STIPULATIONS THAT MAY BE IMPOSED AS A CONDITION OF PERMITTING. PAVEMENT CUT SURCHARGE FEES ARE ASSESSED IN ACCORDANCE WITH SECTION 31-38 OF THE PHOENIX CITY CODE.
- 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.
- 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 ACCESSIBILITY TO THE VALVE OPERATING NUT FOR ALL VALVES, WITHIN THE PROJECT BOUNDARIES. FAILURE TO MAINTAIN ACCESSIBILITY TO VALVES SHALL BE CAUSE FOR CANCELING THE SHUTDOWN AND THE CONTRACTOR MUST PROPERLY REQUEST A SCHEDULE REVISION.  
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.
- VALVE BOX REMOVAL – AFTER ACCEPTANCE OF THE NEW WATERLINES, FIRE HYDRANTS AND SERVICE CONNECTIONS THE CONTRACTOR SHALL SHUT THE VALVE, REMOVE THE BOX AND COVER, BACKFILL AND COMPACT THE VOID WITH ABC AS APPLICABLE, COVER WITH 2-INCH AC (C ) PAVEMENT, OR AS REQUIRED TO MATCH EXISTING GROUND.
- CUT AND PLUG –THE CONTRACTOR SHALL CUT AND PLUG EXISTING WATERLINES AS NOTED ON THE APPROVED PLANS AFTER ALL EXISTING WATER SERVICES HAVE BEEN TIED OVER TO THE NEW WATERLINE.
- SWING CONNECTIONS – AFTER THE NEW WATERLINE IS ACCEPTED FOR SERVICE, THE CONTRACTOR SHALL MAKE "SWING CONNECTIONS" TO EXISTING WATERLINES AS INDICATED ON THE APPROVED PLANS. "SWING CONNECTIONS" SHALL INCLUDE ALL PIPING AND APPURTENANCES (OFFSETS, BENDS, ETC.) REQUIRED TO AFFECT A CONNECTION.
- WATER SERVICES – THE CONTRACTOR SHALL REPLACE EXISTING WATER SERVICES AS INDICATED ON THE APPROVED PLANS WITH NEW SERVICE PIPE AND CURB STOP FOR THE RELOCATED EXISTING WATER METERS. (ALL SERVICE CONNECTIONS MUST BE AT MINIMUM 1-INCH. FOR 3/4-INCH METERS, A 3/4-INCH REDUCER MUST BE INSTALLED TO ACCOMMODATE THE METER).
- METER AND BOX – THE CONTRACTOR SHALL RELOCATE THE EXISTING METERS AND METER BOXES, AND CONNECT THEM AS INDICATED ON THE APPROVED PLANS AFTER THE NEW WATERLINE HAS BEEN ACCEPTED FOR SERVICE.
- NEW WATER METERS AND SERVICES WILL BE INSTALLED AFTER THE CONTRACTOR MAKES PROPER APPLICATION AND PAYS THE PREVAILING FEES. APPLICATION AND PAYMENT OF FEES CAN BE MADE AT THE FOLLOWING ADDRESS: CITY OF PHOENIX, WATER SERVICES DEPARTMENT, INFRASTRUCTURE RECORD SERVICES DIVISION, 200 WEST WASHINGTON STREET, 8TH FLOOR, PHOENIX, AZ 85003.
- SURPLUS ABANDONED FIRE HYDRANTS (BARREL PORTION ONLY) TO THE CITY OF PHOENIX WATER DEPARTMENT – SUPPORT SERVICES, 4436 N. 35TH AVENUE, PHOENIX. CONTACT THE WATER DEPARTMENT – SUPPORT SERVICES BY CALLING 602-262-5077 FOR ANY ADDITIONAL INFORMATION.
- CITY OF PHOENIX WATER DEPARTMENT PERSONNEL SHALL REMOVE ALL PROPOSED EXISTING WATER METERS THAT ARE TO BE ABANDONED ONCE ALL REQUIRED FEES HAVE BEEN PAID BY THE APPLICANT AT COUNTER 8 – CIVIL PERMITS, ON THE SECOND FLOOR OF CITY OF PHOENIX CITY HALL, LOCATED AT 200 W. WASHINGTON STREET.
- ALL CONSTRUCTION ACTIVITIES SHALL BE CONTAINED WITHIN THE PUBLIC RIGHT OF WAY OR IN EASEMENTS GRANTED FOR THE WATER AND/OR SEWER MAIN INSTALLATION.
- TRAFFIC CONTROL SHALL CONFORM TO THE RIGHT-OF-WAY MANAGEMENT PROGRAM (RMP), ADOPTED BY THE CITY OF PHOENIX AND SHALL ALSO BE SUBJECT TO CITY REVIEW AND APPROVAL.
- ALL DIMENSIONS SHOWN ARE TO THE MONUMENT LINE OTHERWISE. IN RIGHT OF WAY, UNLESS NOTED OTHERWISE.

- BIDDERS ARE ADVISED THAT THE LOCATION, NUMBER, AND TYPE OF UTILITIES SHOWN ON THESE PLANS AND SPECIFICATIONS ARE ONLY AS ACCURATE AS THE BEST INFORMATION AVAILABLE FROM PUBLIC UTILITIES, OWNERS, AND USERS AT THE TIME THESE PLANS AND SPECIFICATIONS WERE PREPARED. UNDERGROUND UTILITIES MAY BE PRESENT ON THIS PROJECT WHICH WERE NOT DISCLOSED TO THE ENGINEER. NO REPRESENTATION IS MADE THAT THE UTILITIES LOCATIONS INDICATED ON THESE PLANS ARE ACCURATE, COMPLETE, OR EXCLUSIVE. BIDDERS ARE ADVISED TO UNDERTAKE THEIR OWN INVESTIGATIONS OF EXISTING CONDITIONS BEFORE SUBMITTING A PROPOSAL ON THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ALL TEST PITS OR THE PRE-CONSTRUCTION INVESTIGATION OF UNDERGROUND UTILITIES OR STRUCTURE. PURSUANT TO ARIZONA REVISED STATUTE 40-360.21, THE CONTRACTOR MUST CONTACT "BLUE STAKE" AT (602)261-1100 OR THE APPROPRIATE PUBLIC UTILITY FOR ASSISTANCE IN LOCATING UNDERGROUND FACILITIES, LINES, AND APPURTENANCES PRIOR TO CONSTRUCTION.
- BY SUBMITTING A PROPOSAL ON THIS PROJECT, BIDDERS ARE REPRESENTING THAT THEY HAVE CONSIDERED THE POTENTIAL IMPACT OF TEMPORARY OR PERMANENT RELOCATION OF EXISTING UNDERGROUND UTILITIES LOCATED WITHIN THE PROJECT ON THEIR COSTS, AND THAT THEY HAVE INCLUDED IN THEIR PROPOSALS THE COST OF FINDING, PROTECTING, AND RELOCATING ALL EXISTING UTILITIES WITHIN THE PROJECT. NO ADDITIONAL COMPENSATION FOR DAMAGES WILL BE PAID FOR ANY COST, LOSS, DAMAGE, HINDRANCE, OR DELAY INCURRED BY A CONTRACTOR OR SUBCONTRACTOR DUE TO CONFLICTS WITH EXISTING UTILITIES; REGARDLESS OF WHETHER OR NOT THOSE UTILITIES ARE INDICATED ON THE PLANS OR SPECIFICATIONS FOR THIS PROJECT.
- THE SOLE AND EXCLUSIVE REMEDY FOR ANY COST, HINDRANCE, OR DELAY CAUSED BY ANY UTILITIES LOCATED WITHIN THE PROJECT (WHETHER OR NOT INDICATED ON THE PLANS OR SPECIFICATIONS) SHALL BE AN EXTENSION OF THE CONTRACT TIME; THE NEED FOR OR DURATION OF WHICH SHALL BE DETERMINED BY THE ENGINEER IN ITS SOLE DISCRETION.
- PER MAG SECTION 630, THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS AND TECHNICAL DATA REQUIRED FOR EVALUATING AND APPROVAL OF EACH TYPE OF VALVE. TAPPING SLEEVE AND VALVE AND BUTTERFLY VALVE. SHOP DRAWINGS MUST BE SUBMITTED TO WATER SERVICES AFTER THE ENGINEER OF RECORD HAS PROVIDED THEIR RECOMMENDATION OR APPROVAL.
- THE CONTRACTOR SHALL 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 UNLESS NOTED OTHERWISE. POLE BRACING MAY BE REQUIRED WHEN EXCAVATING NEAR POWER POLES.
- THE CONTRACTOR SHALL SUPPORT AND PROTECT IN PLACE ALL EXISTING UTILITIES WITHIN THE EXCAVATION AS REQUIRED BY THE MAG SPECIFICATIONS.
- 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.
- THE CONTRACTOR MUST PROTECT THE ADJACENT PROPERTY AND IMPROVEMENTS THERETO FROM ANY DAMAGE DURING CONSTRUCTION. ANY DAMAGE TO ADJACENT PROPERTY OR IMPROVEMENTS MUST BE REPAIRED OR REPLACED, TO THE PROPERTY OWNER'S SATISFACTION, AT THE CONTRACTOR'S EXPENSE.
- 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. THE CONTRACTOR SHALL SUBMIT THE DESIGN TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

**WATER NOTES CONT.**

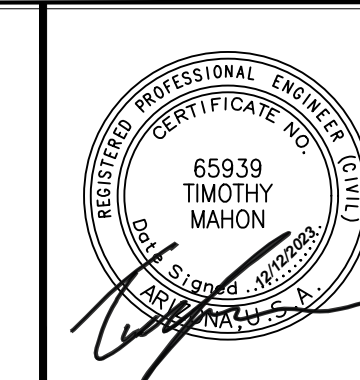
"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

**LEGEND NOTES**

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

**0TH PLACE AND CLARENDON AVE**  
**ST83140122**

DR: LNB	DES: CJR	CK: TMM	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	
SCALE: NONE	HORIZONTAL		G-1.02



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140122	36	50	
DATE: 12/23					
DRAWN: LNB		DESIGN: CJR		CHECKED: TMM	



**CONTROL NOTE:**

THE HORIZONTAL DATUM IS NAD83(HARN) STATE PLANE, ARIZONA CENTRAL ZONE, ADJUSTED FROM GRID TO GROUND USING A COMBINED SCALE FACTOR OF 1.00016 WITH A SCALE POINT OF X=0.00, Y=0.00.

THE BASIS OF BEARING IS GRID NORTH NAD 83 STATE PLANE, ARIZONA CENTRAL ZONE

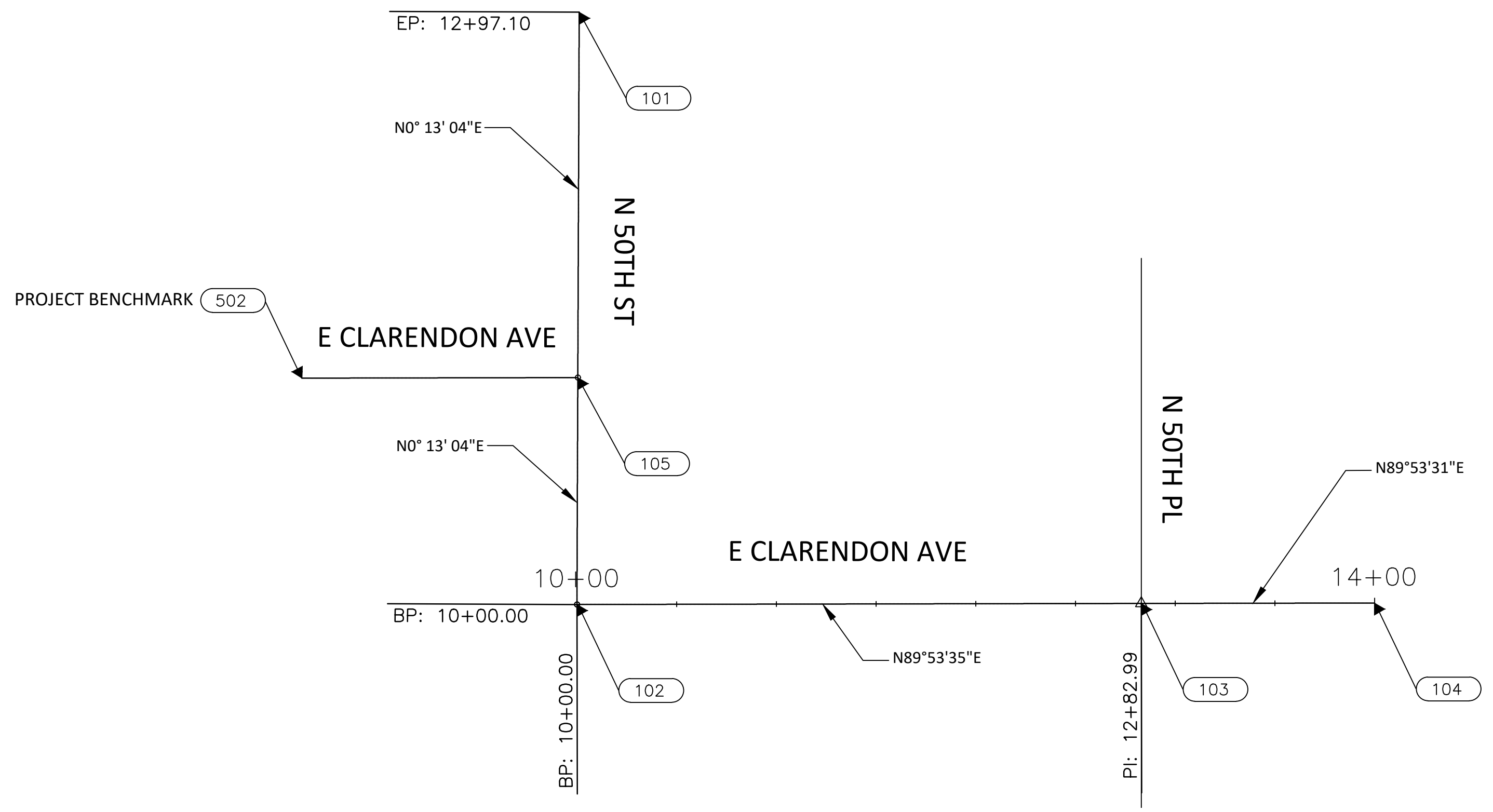
ELEVATIONS ARE ON THE NGVD29 VERTICAL DATUM

POINT	STATION	NORTHING	EASTING	DESCRIPTION
101	12+97.10	906466.9239	682826.3373	N 50TH ST
102	10+00.00	906169.8235	682825.2082	N 50TH ST/ E CLARENDON AVE
103	12+82.99	906170.3519	683108.2013	E CLARENDON AVE & N 50TH PL
104	14+00.00	906170.5644	683225.2113	E CLARENDON AVE
105	11+13.80	906283.6227	682825.6379	N 50TH ST/ E CLARENDON AVE
502	11+83.40	906283.3636	682687.2395	COP BENCHMARK

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



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

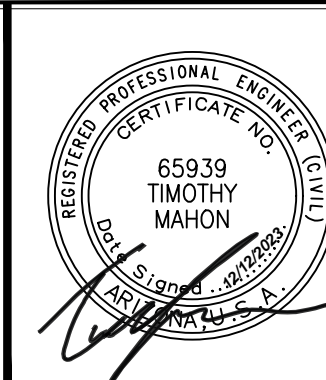
**GEOMETRIC CONTROL**

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

**0TH PLACE AND CLARENDON AVE**  
**ST83140122**

DR: LNB	DES: CJR	CHK: TMM	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	G-2.01
SCALE: 1"=50' HORIZONTAL			

AMERICAN RESCUE PLAN ACT  
 LOCAL DRAINAGE MITIGATION PROGRAM  
 PHOENIX STREETS - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140122	37	50	
12/23		<b>AZTEC</b>			
DATE:		501 N. 44TH ST SUITE 200 PHOENIX, AZ 85008 PH: 602-454-0402 WWW.AZTEC.COM			
DRAWN:	LNB	DESIGN:	CJR	CHECKED:	TMM

NO.	DESCRIPTION	REV BY	CHK BY	DATE

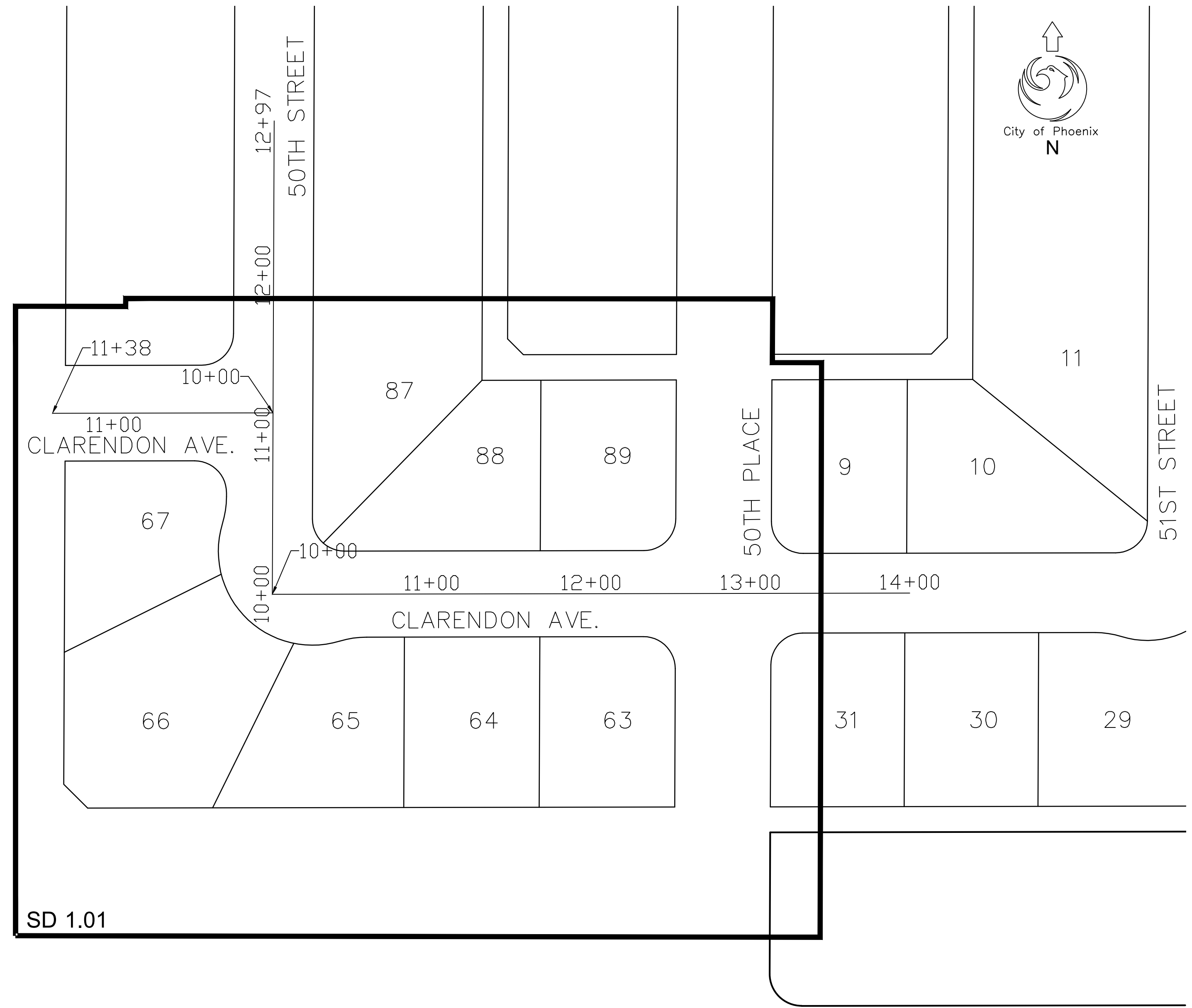
NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

**A N T I T Y S M M A R Y**

ITEM No.	DESCRIPTION	NIT	SHEET NUMBERS	TOTAL TY
M#####	(DESCRIPTION)	NIT	SD 1.01	TOTAL TY
M3001002	SAWCUT & REMOVE PORTLAND CEMENT CONCRETE CURB AND GUTTER	LF	138	138
M3010001	SUBGRADE PREPARATION	SY	282	282
M3360224	SAWCUT & REMOVE A.C. PAVEMENT, COP STD DTL P-1200 & MAG Spec 336	SY	2	2
M3360224	PAVEMENT REPLACEMENT, COP STD DTL P-1200 & MAG Spec 336	SY	18	18
M3362002	SLURRY SEAL COAT	SY	10	10
M3400240	CONSTRUCT VALLEY GUTTER AND APRON STD DET 240	SF	120	120
M3402203	CONCRETE ROLL CURB AND GUTTER, MAG STD DETAIL 220, TYPE "C"	LF	138	138
M3402240	CONCRETE VALLEY GUTTER & APRON, PER SDD-1.04	SF	643	643
M34 3001	ADJUST EXISTING TYPE "A" WATER VALVE, STANDARD DETAIL P-1391 AND P-1391-1	EA	1	1
M3 00020	REMOVE EXISTING VALLEY GUTTER	SF	13	13
M 0 11	TRENCH DRAIN, PER SDD 1.01 SDD 1.02	EA	1	1

**KEY MAP**



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

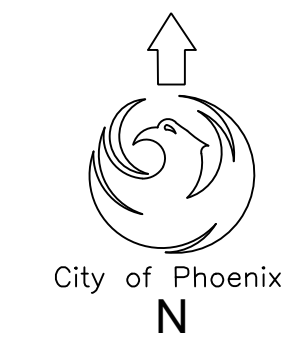
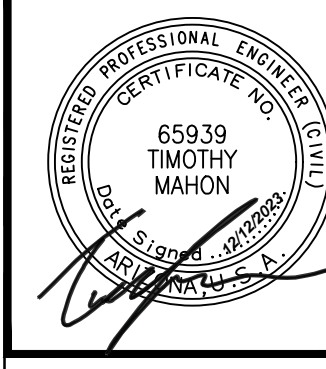
**ANTITY S M M A R Y**

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

**0TH PLACE AND CLARENDON AVE**  
**ST83140122**

DR: LNB | DES: CJR | CK: TMM | DRAWING SERIES NO.  
 DATE: 12/23 | DATE: 12/23 | DATE: 12/23  
 SCALE: NONE | HORIZONTAL | G-3.01

AMERICAN RESCUE PLAN ACT  
LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS - MARICOPA CO.

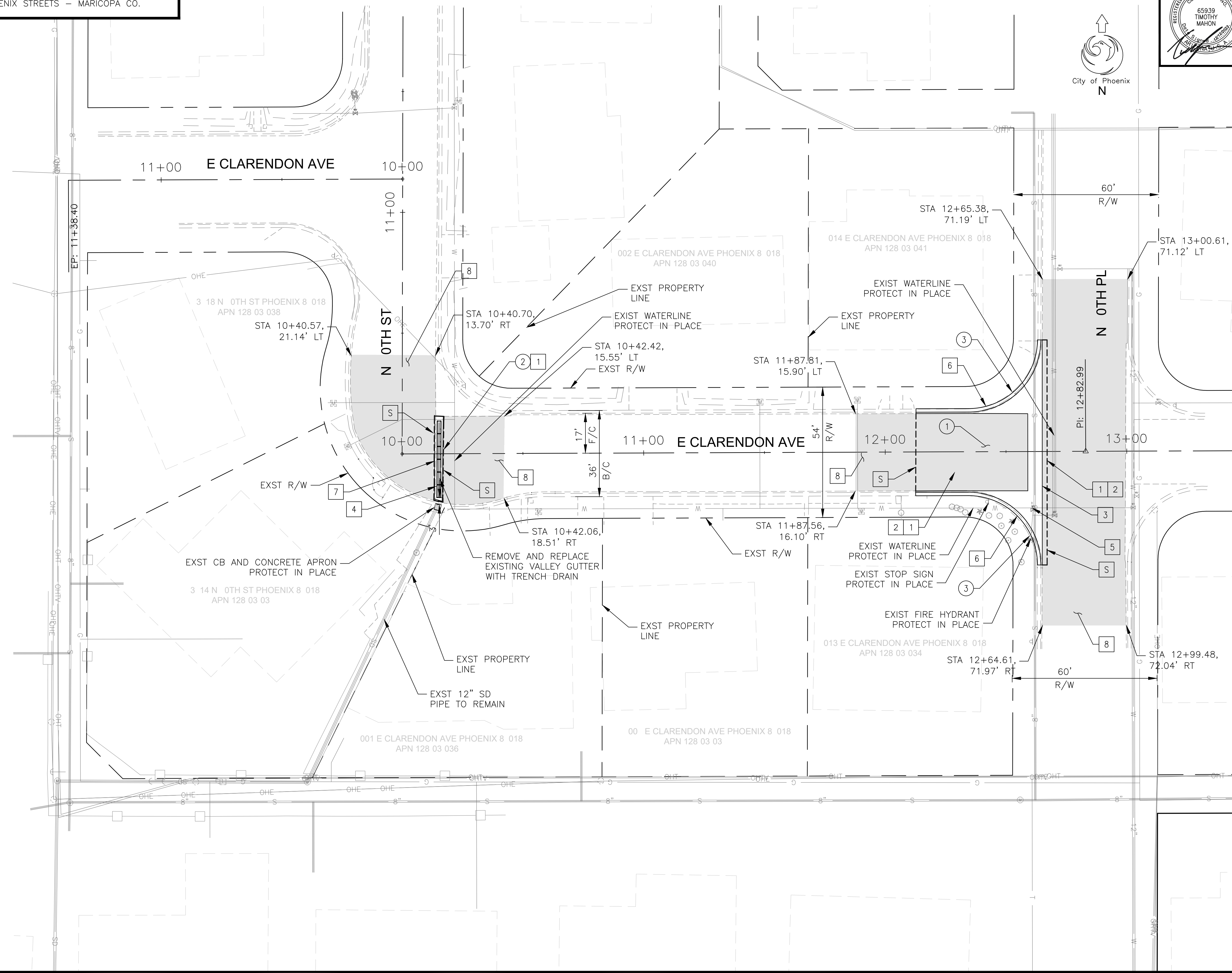


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140122	38	50	
DATE: 12/23					
DRAWN: LNB DESIGN: CJR CHECKED: TMM					

NO	DESCRIPTION	UNIT	QTY
1	SAWCUT & REMOVE AC PAVEMENT PER COP STD DET P-1200 AND MAG SPEC 336	SY	255
2	REMOVE EXISTING VALLEY GUTTER	SF	135
3	SAWCUT & REMOVE EXISTING CURB & GUTTER	LF	138

NO	DESCRIPTION	UNIT	QTY
1	PAVEMENT REPLACEMENT COP STD DET P-1200 AND MAG SPEC 336	SY	187
2	SUBGRADE PREPARATION	SY	282
3	CONCRETE VALLEY GUTTER & APRON, DWG NO. SDD-1.04	SF	643
4	TRENCH DRAIN, DWG NO. SDD-1.01 & SDD-1.02	EA	1
5	ADJUST WATER VALVE, TYPE "A", COP STD DET P1391 & P1391-1	EA	1
6	CONCRETE CURB & GUTTER, MAG STD DTL 220-1, TYPE C	LF	138
7	CONCRETE VALLEY GUTTER MAG STD DTL 240, W=3.5'	SF	120
8	SLURRY SEAL COAT	SY	1097

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



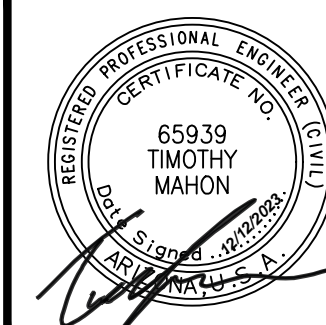
S SAWCUT

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

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

**0TH PLACE AND CLARENDON AVE**  
ST83140122

DR: LNB	DES: CJR	CK: TMM	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	
SCALE: 1"=20' HORIZONTAL			SD-1.01

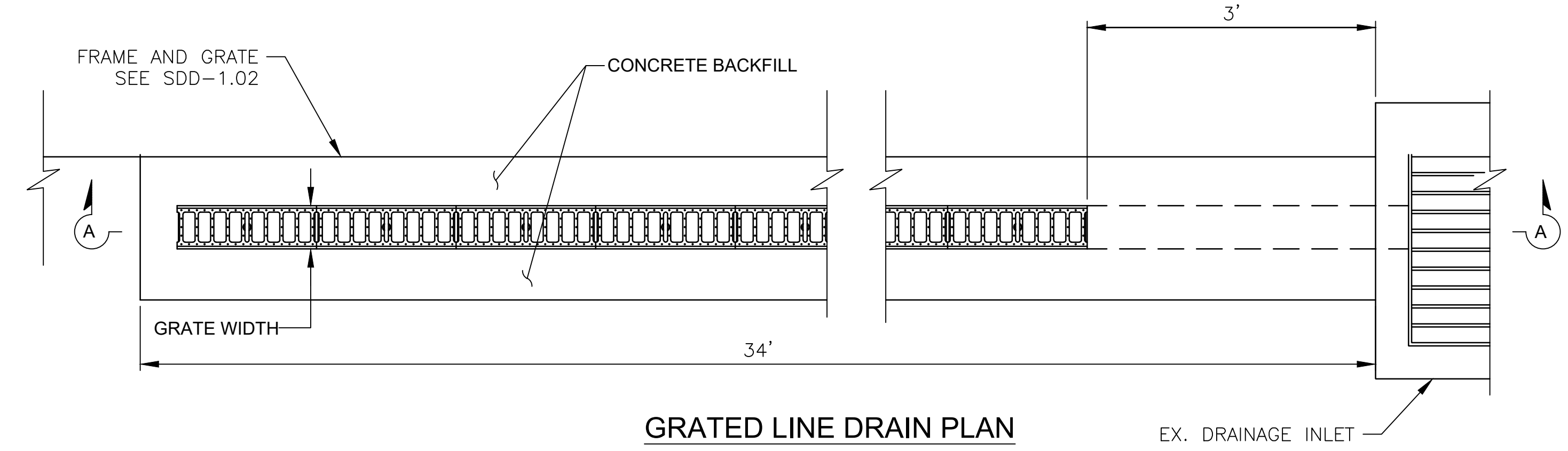


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
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DATE: 12/23		AZTEC		501 N. 44TH ST PHOENIX, AZ 85008 PH: 602-454-0402 www.Aztec.com	
DRAWN: LNB	DESIGN: CJR	CHECKED: TMM			

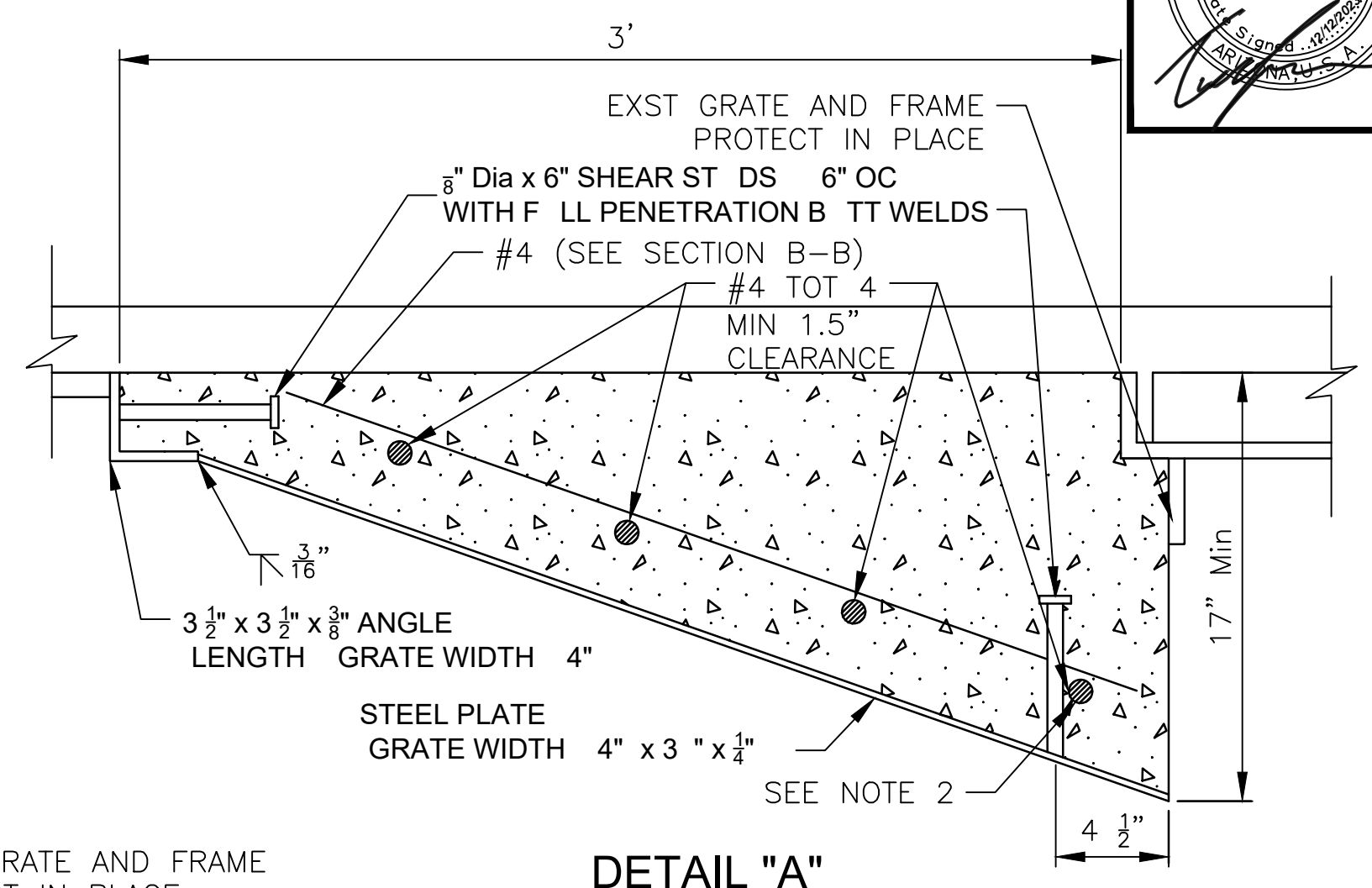
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				

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

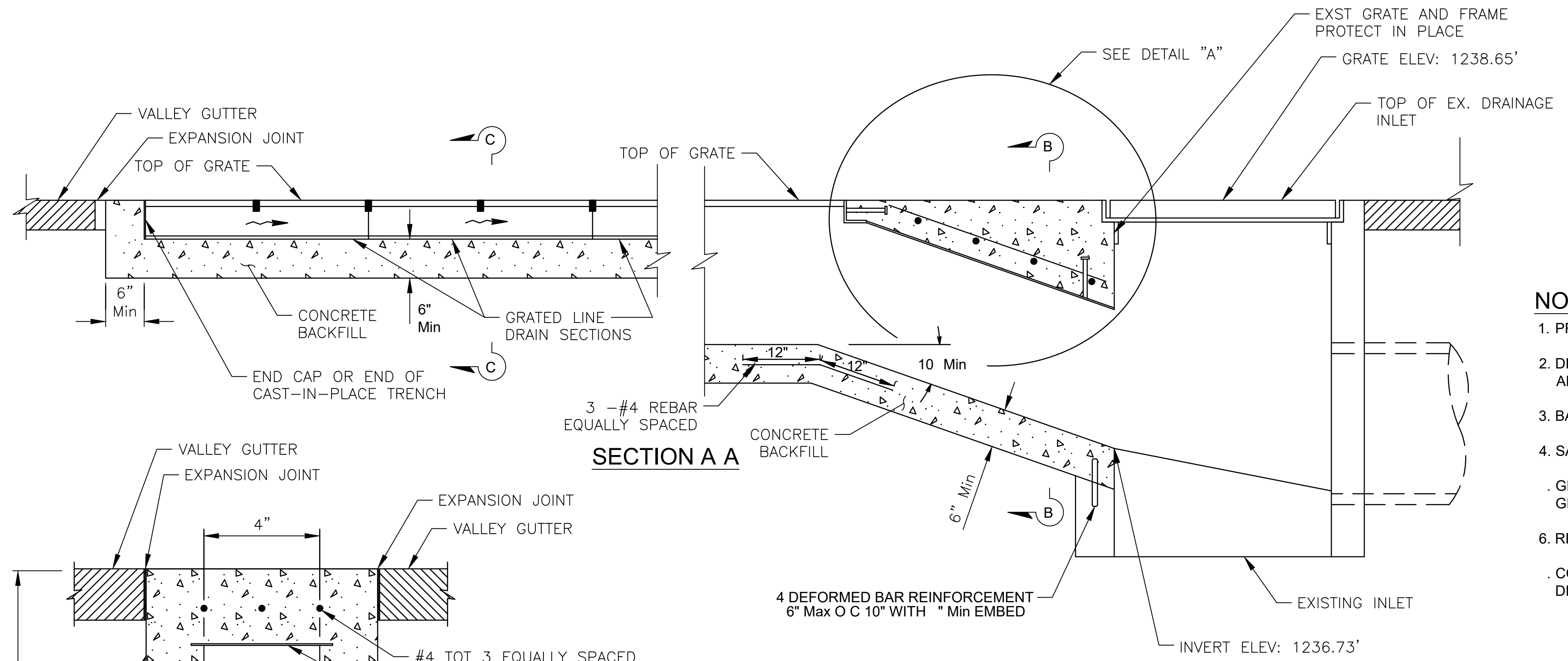
REVISION BY CITY OF PHOENIX	DESCRIPTION	REV BY	CHK BY	DATE
NO.				



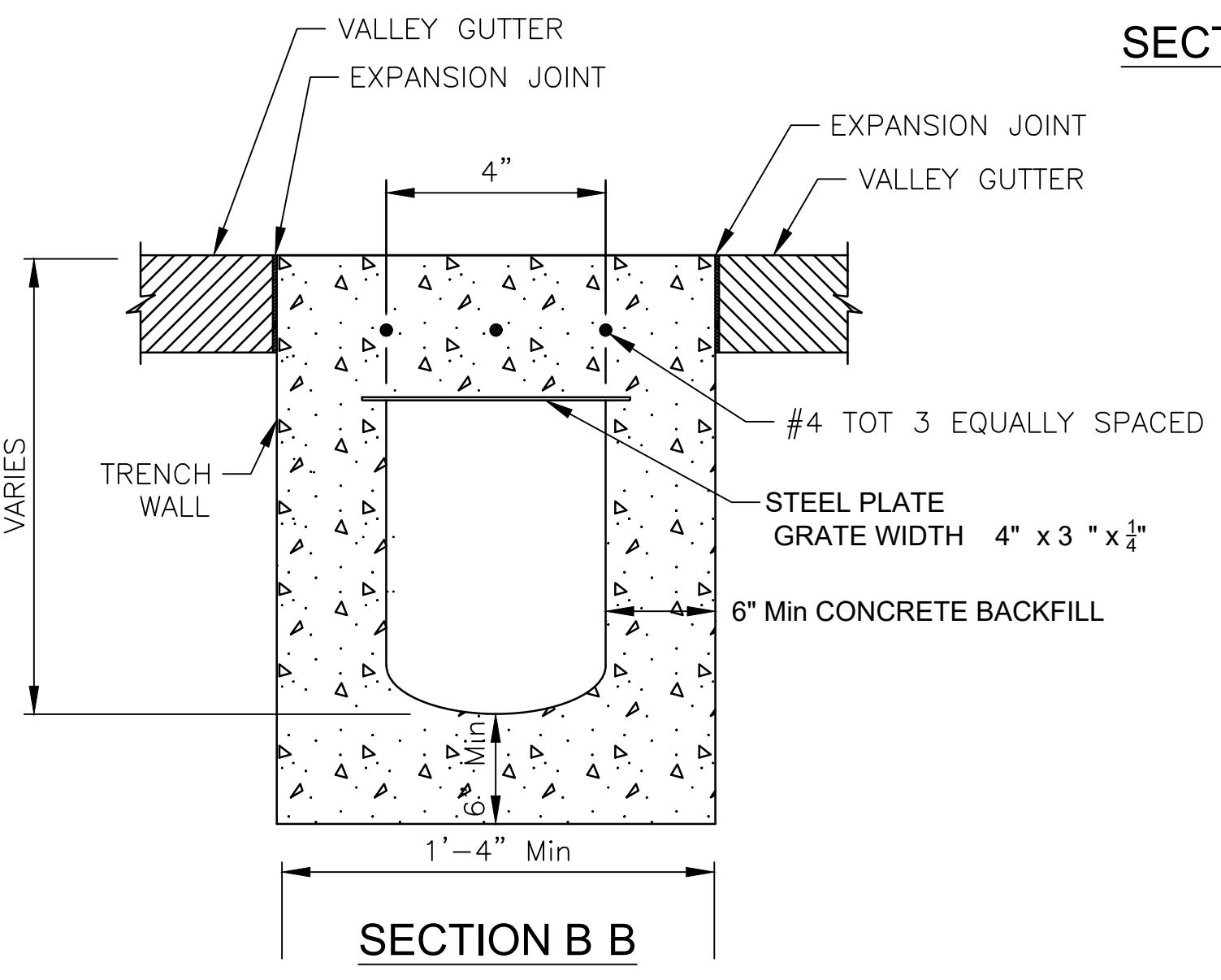
**GRADED LINE DRAIN PLAN**



**DETAIL "A"**



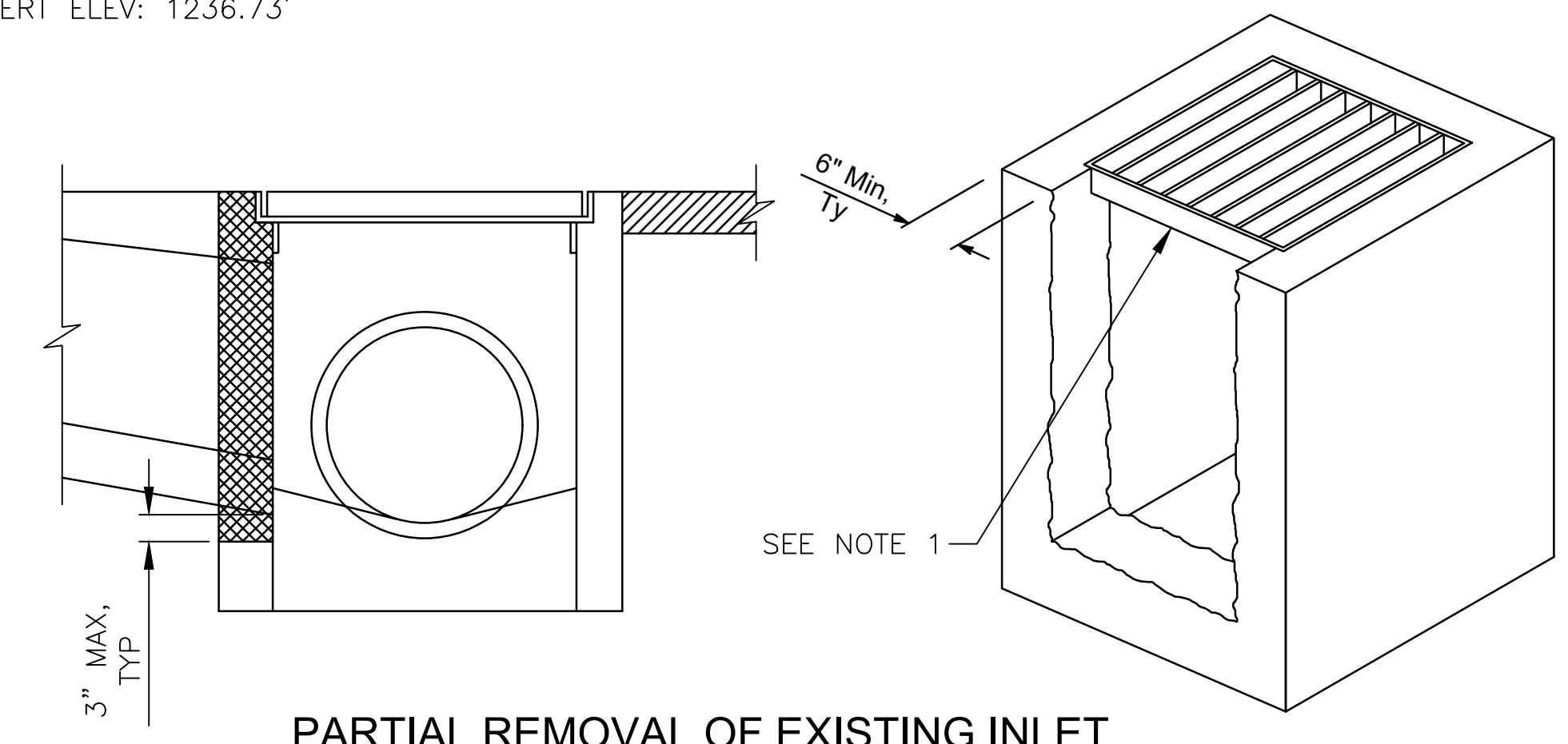
**SECTION A A**



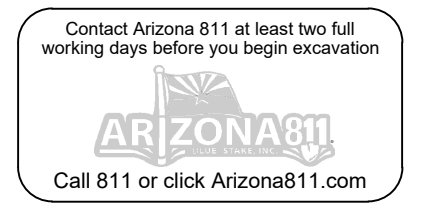
**SECTION B B**

**NOTES**

1. PRESERVE EXISTING FRAME AND GRATE.
2. DRILL REBAR ENDS 3" INTO EXISTING CONCRETE, OVERLAP, AND CONNECT WITH DOUBLE BARREL MECHANICAL COUPLER.
3. BAR REINFORCEMENT
4. SAW CUT AND REMOVAL OF CONCRETE
5. GRATE AND FRAME SHALL BE STEEL, DUCTILE IRON, OR CAST IRON. GRATE AND FRAME SHALL BE H20 LOADING.
6. REBAR MINIMUM CLEARANCE OF 1".
7. CONSTRUCT EXPANSION JOINTS BETWEEN EDGE OF TRENCH DRAIN AND ADJACENT CONCRETE SURFACES.



**PARTIAL REMOVAL OF EXISTING INLET**



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

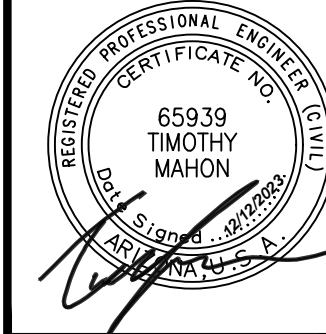
**TRENCH DRAIN DETAIL SHEET 1 OF 2**

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

**0TH PLACE AND CLARENDON AVE**  
**ST83140122**

DR: LNB	DES: CJR	CHK: TMM	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	
SCALE: HORIZONTAL	SDD-1.01		

AMERICAN RESCUE PLAN ACT  
 LOCAL DRAINAGE MITIGATION PROGRAM  
 PHOENIX STREETS – MARICOPA CO.

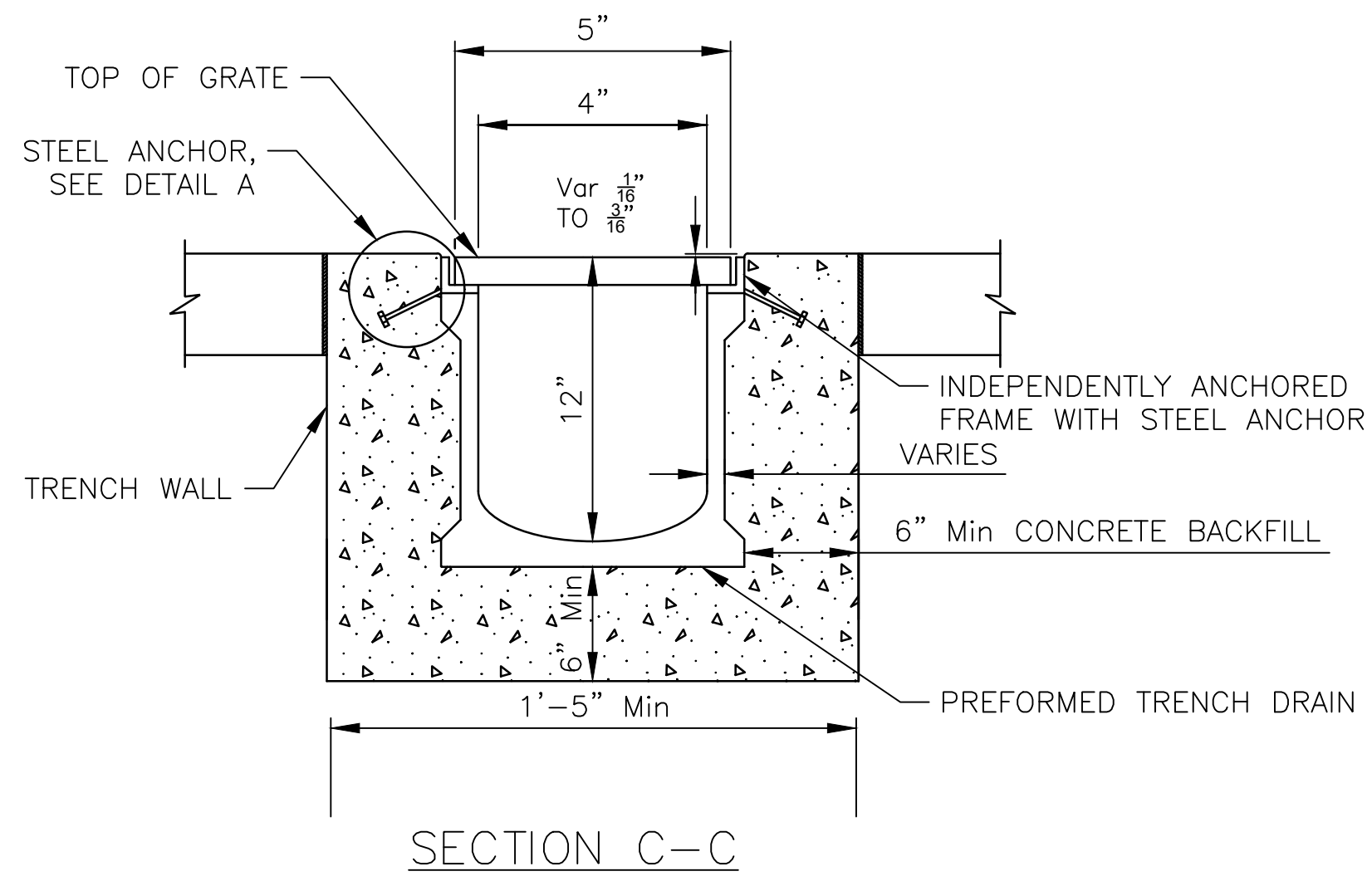


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
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DATE: 12/23		<b>AZTEC</b>		501 N. 44TH ST PHOENIX, AZ 85008 PH: 602-434-4402 WWW.AZTEC.COM	
DRAWN: LNB	DESIGN: CJR	CHECKED: TMM			

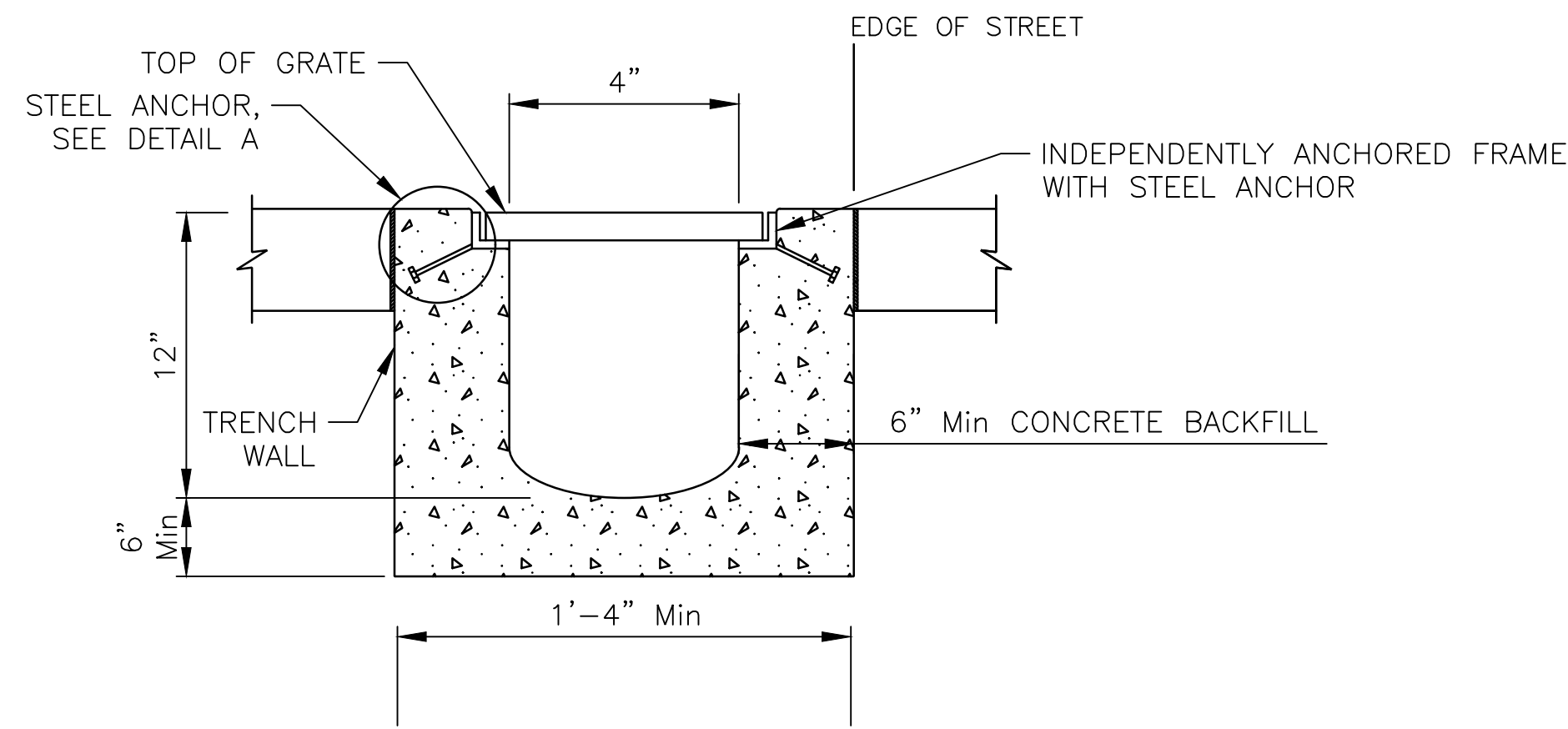
NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

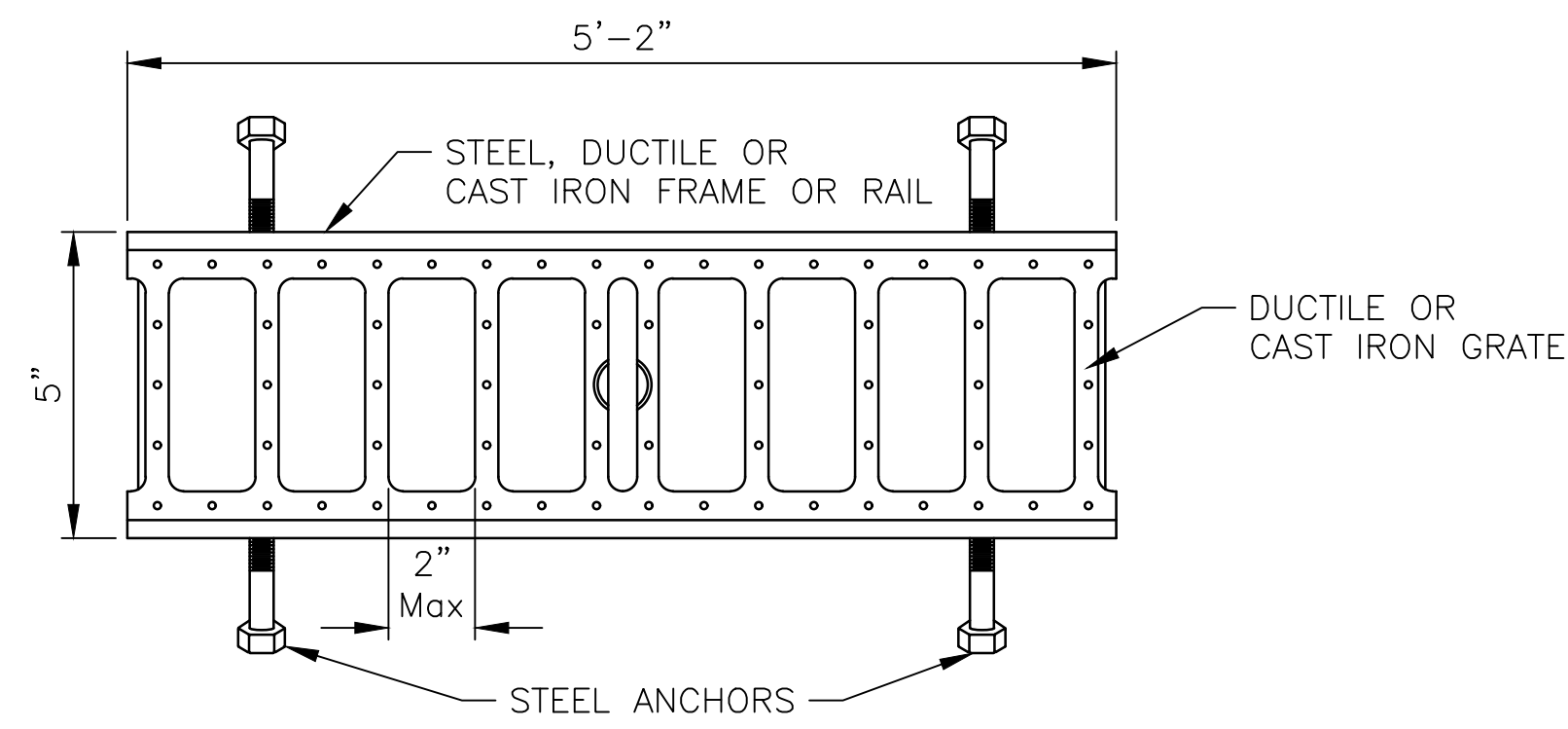


SECTION C-C



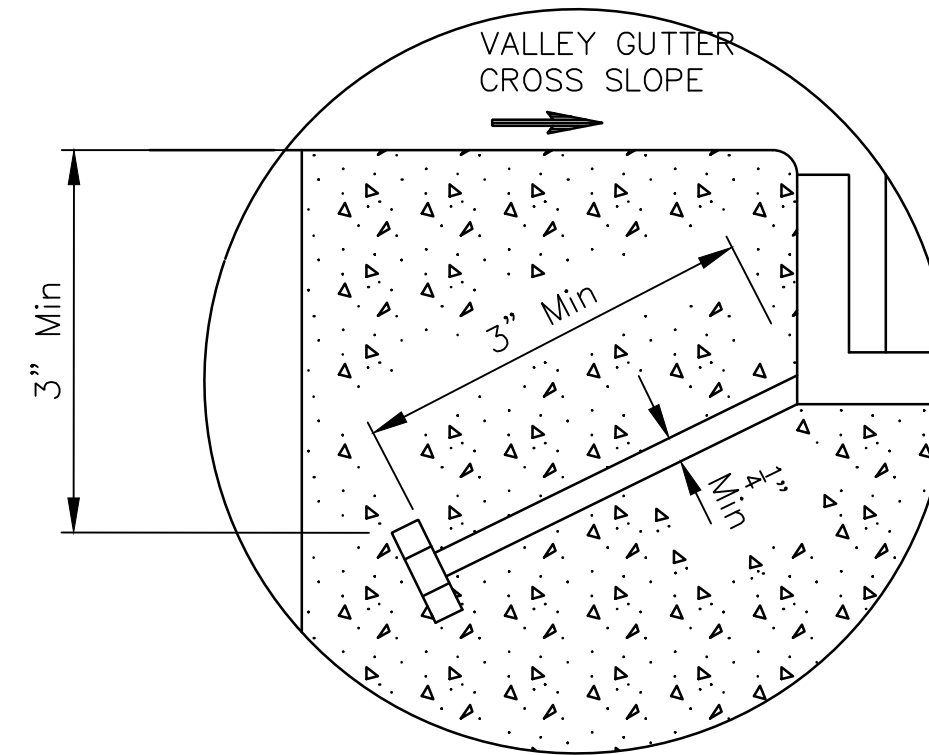
CAST-IN-PLACE ALTERNATIVE  
SECTION C-C

See Note 1 (Previous Page)

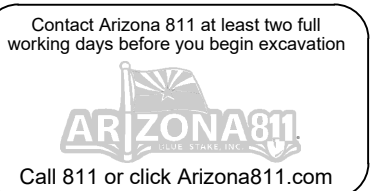


FRAME AND GRATE DETAIL

See Note 1



DETAIL A



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

**TRENCH DRAIN DETAIL  
SHEET 2 OF 2**

CITY OF PHOENIX, ARIZONA  
STREET TRANSPORTATION DEPARTMENT

0TH PLACE AND CLARENDON AVE  
ST83140122

DR: LNB	DES: CJR	CHK: TMM	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	
SCALE: HORIZONTAL	SDD-1.02		

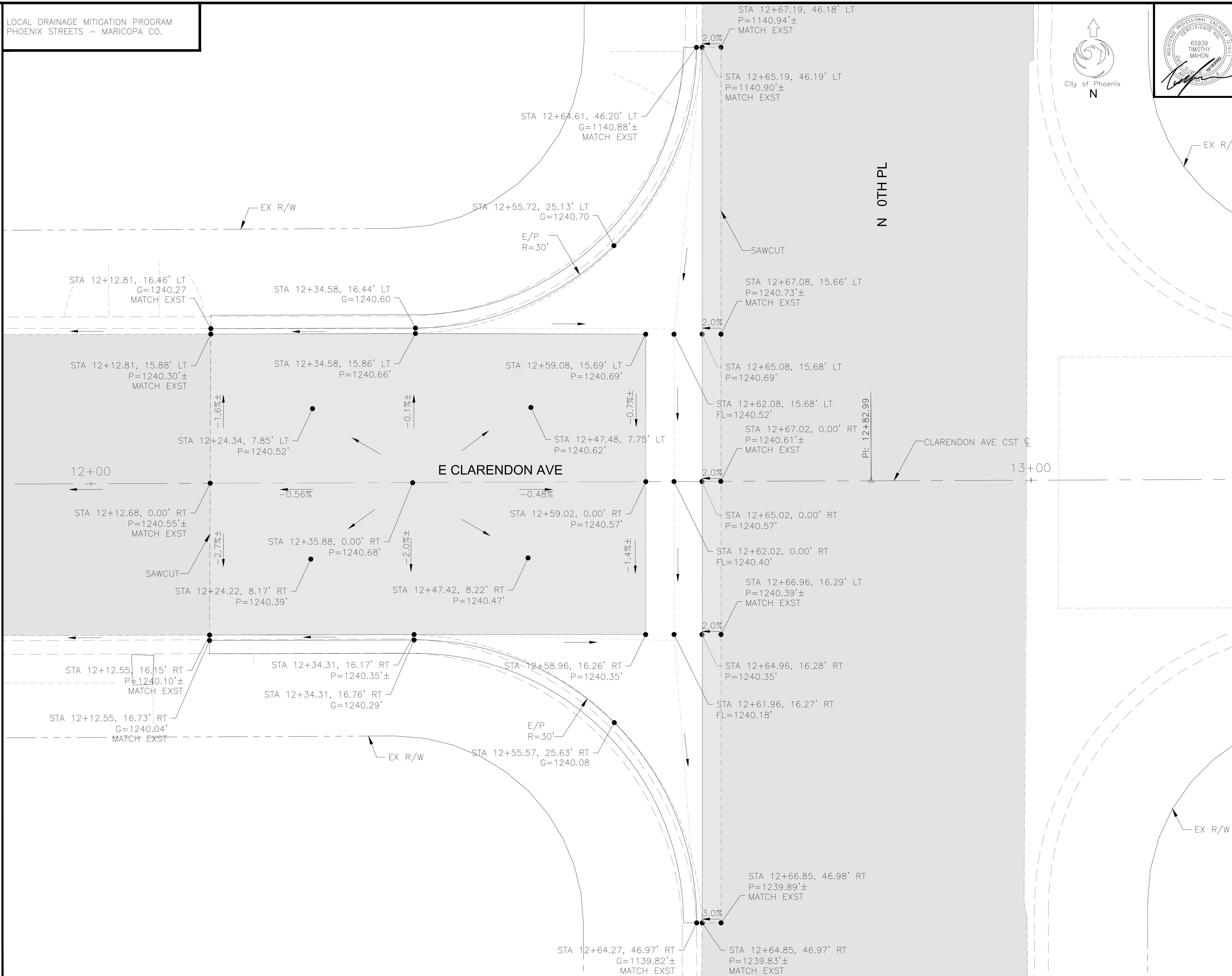


LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS - MARICOPA CO.

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140122	41	50	

12/23  
DATE: 12/23  
DRAWN: YED DESIGN: YED CHECKED: JCF

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

**STAKING DETAIL**

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

**0TH PLACE AND CLARENDON AVE**  
ST83140122

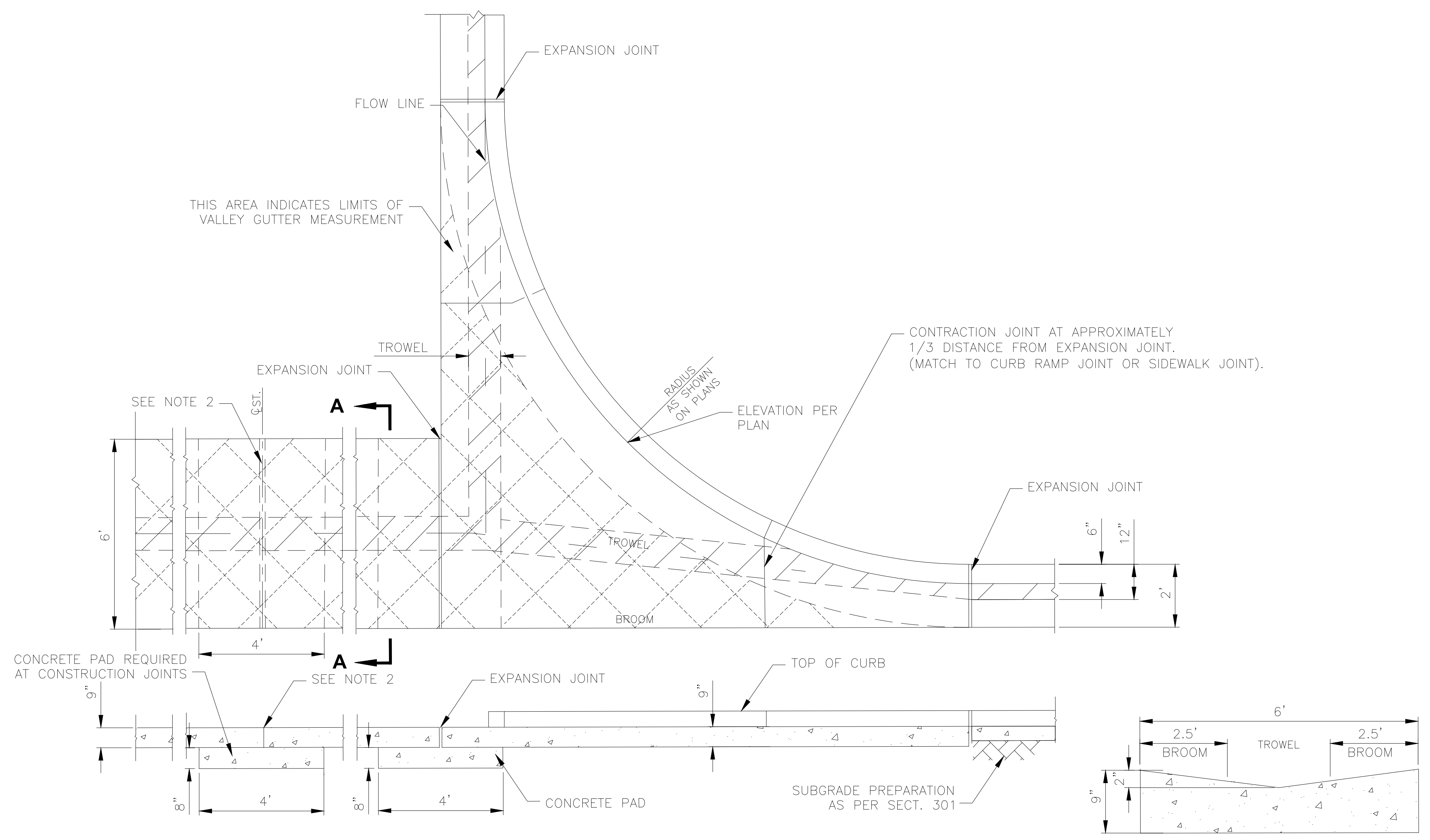
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SCALE: 1"=5' HORIZONTAL

LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS – MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140122	42	50	
12/23					
DATE:					
<b>AZTEC</b>					
DRAWN: YED    DESIGN: YED    CHECKED: JCF					

NO.	DESCRIPTION	REV BY	CHK BY	DATE



- NOTES:
1. ALL CONCRETE TO BE CLASS 'A' UNLESS OTHERWISE APPROVED (SECTION 725)
  2. EITHER A CONSTRUCTION JOINT OR CONTRACTION JOINT IS REQUIRED AT THE STREET CENTERLINE.
  3. A SEPARATE CONCRETE PAD IS REQUIRED AT ALL EXPANSION JOINTS AND ALL CONSTRUCTION JOINTS.
  4. EXPANSION JOINTS SHALL CONFORM TO SECTION 340.
  5. CONTRACTION JOINTS SHALL SEPARATE LARGE AGGREGATE BY MOVING THE AGGREGATE TO EITHER SIDE OF THE JOINT FOR A MINIMUM DEPTH OF 2 1/2 INCHES. THE FINISHED JOINT SHALL HAVE 1/4 INCH MAXIMUM RADII AT THE TOP SURFACE AND BE A MINIMUM OF 3/4 INCHES OF DEPTH.

**SECTION A-A**  
VALLEY GUTTER



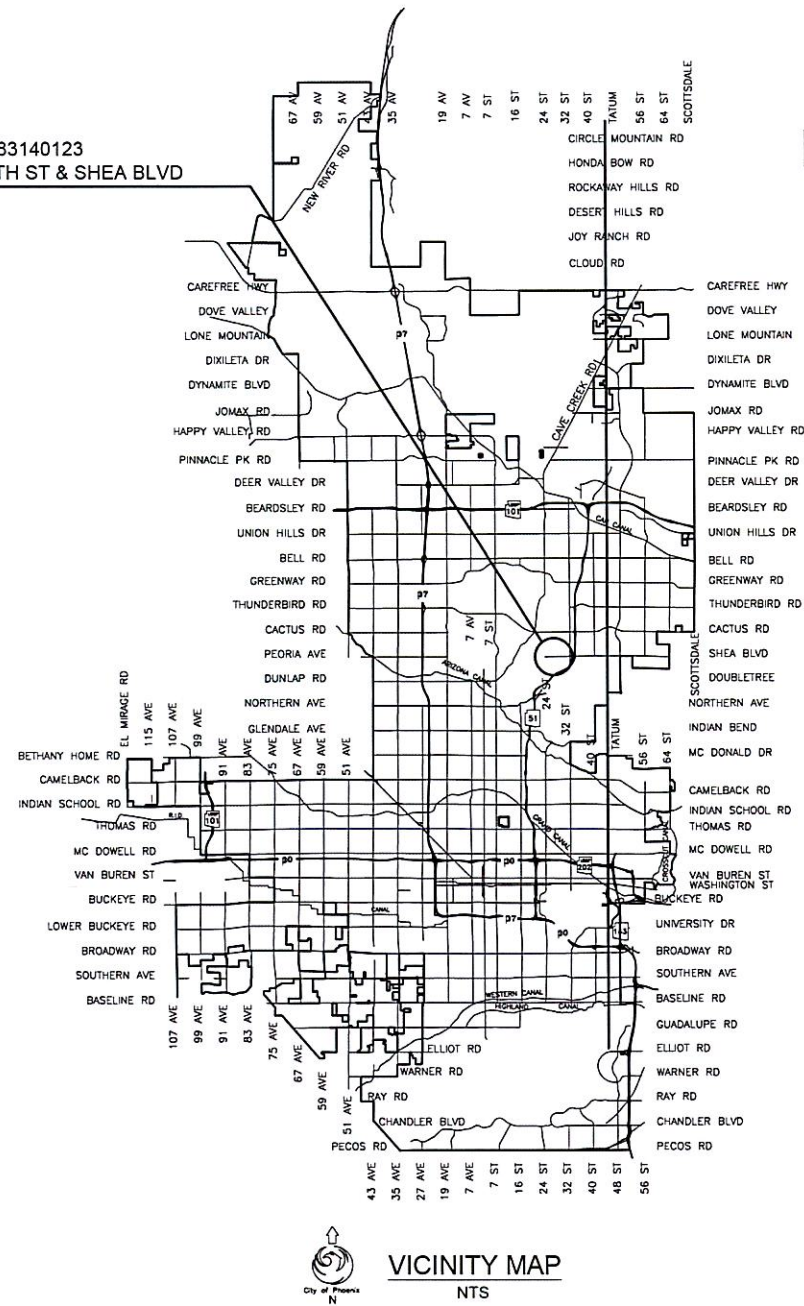
"PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY & MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF THE CONTRACTOR'S CONTRACT WITH THE CITY OF PHOENIX."

**VALLEY GUTTER DETAIL**  
CITY OF PHOENIX, ARIZONA  
STREET TRANSPORTATION DEPARTMENT

**0TH PLACE AND CLARENDON AVE**  
**ST83140122**

DR: YED	DES: YED	CHK: JCF	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	
SCALE: N.T.S.	HORIZONTAL		SDD-1.04

ST83140123  
26TH ST & SHEA BLVD



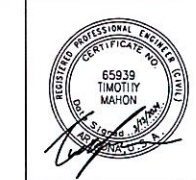
CITY OF PHOENIX  
STREET TRANSPORTATION DEPARTMENT  
DESIGN & CONSTRUCTION MANAGEMENT DIVISION  
AMERICAN RESCUE PLAN ACT  
LOCAL DRAINAGE MITIGATION PROJECT PACKAGE 1

26TH ST & SHEA BLVD  
ST83140123

FINAL DESIGN SUBMITTAL



2024



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.	ST83140123	43	50	

**AZTEC**  
DRAWN: LNB | DESIGN: CJR | CHECKED: TMM | DATE: 12/23

MAYOR  
KATE GALLEGO  
CITY MANAGER  
JEFFREY BARTON  
CITY COUNCIL

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

INDEX OF SHEET

SHEET NO.	DWG. SERIES NO.	SHEET TITLE
1	G-0.01	COVER
2-3	G-1.01-1.02	LEGEND AND NOTES
4	G-2.01	GEOMETRIC CONTROL
5	G-3.01	QUANTITY SUMMARY
6	SD-1.01	DRAINAGE PLANS
7-8	SD-2.01-2.02	CONNECTOR PIPE PROFILES

APPROVED Daniel Hel 6/4/2024  
WATER SERVICES DEPARTMENT DATE

APPROVED Nazar Nabaty 6/4/2024  
NAZAR NABATY, FLOODPLAIN ADMINISTRATOR DATE

APPROVED Eric J Froberg 6/4/2024  
ERIC J FROBERG, P.E., CITY ENGINEER DATE

CITY BENCHMARKS

▲ COP BRASS CAP IN HAND HOLE, AT THE INTERSECTION OF 24TH ST AND SHEA BOULEVARD EL 1486.33 (NGVD-29)

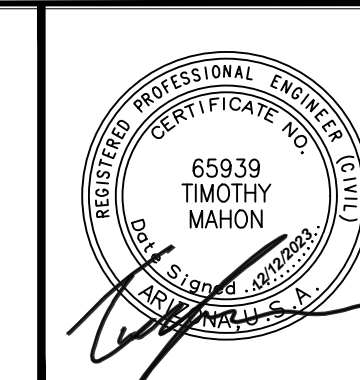
LENGTH OF PROJECT: SHEA BOULEVARD = 212 LF  
26TH STREET = 180 LF  
AREA OF DISTURBANCE = 5714 SQ.FT. = 0.13 ACRES



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

ST83140123: 26TH ST & SHEA BLVD

**LEGEND AND NOTES**



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140123	44	50	
DATE: 12/23		<b>AZTEC</b>		501 N. 44TH ST SUITE 200 PHOENIX, AZ 85008 PH: 602-454-9802 WWW.AZTEC.COM	
DRAWN: LNB		DESIGN: CJR	CHECKED: TMM		

REVISION BY	DESCRIPTION	DATE

REVISION BY	DESCRIPTION	DATE

REVISION BY	DESCRIPTION	DATE

**LEGEND**

- ▲ BENCHMARK
- NEW SURVEY MONUMENT – M.A.G. DETAIL 120-1 TYPE "B"
- ◻ NEW SURVEY MONUMENT – M.A.G. DETAIL 120-1 TYPE "A"
- ===== COMBINED CURB & GUTTER – M.A.G. DETAIL 220 TYPE "A"
- █ BACKFILL TYPE & SQ. YD. PVMT. REPLACEMENT – C.O.P. DETAIL P1200
- ▨ EXISTING CONCRETE PAVEMENT OR SIDEWALK
- ▩ NEW CONCRETE SIDEWALK – STD. DETAIL P1230
- ▩ NEW CONCRETE DRIVEWAY OR ALLEY ENT. PER DETAIL NO. ON PLANS
- ▲ NEW CONCRETE SIDEWALK RAMP PER DETAIL ON PLANS
- ▽ AVERAGE GROUND ELEVATION AT R/W LINE
- ◇ BACKFILL COMPACTION TYPE
- EXISTING DITCH
- 24" IRR (SRP) EXISTING IRRIGATION LINE W/SIZE (NOTE PRIVATE, SALT RIVER OR R.I.D.)
- EXISTING IRRIGATION STRUCTURE
- EXISTING IRRIGATION STANDPIPE
- NEW IRRIGATION STANDPIPE – M.A.G. DETAIL 503
- NEW IRRIGATION VALVE – M.A.G. DETAIL 506 W/ CONC. SCOURING BASIN
- IRRIGATION BERM
- NEW IRRIGATION STRUCTURE PER DETAIL ON PLANS
- 12" DIP W EXISTING WATER LINE W/SIZE & TYPE (12" AND SMALLER)
- 36" DIP W EXISTING WATER LINE W/SIZE & TYPE (GREATER THAN 12")
- ADJUST EXIST. WATER VALVE BOX – C.O.P. DETAIL P1391
- 3/4" W WATER SERVICE W/SIZE AND WATER METER BOX
- EXISTING FIRE HYDRANT
- NEW OR RELOCATED FIRE HYDRANT BY CONTRACTOR
- T.N. EXISTING WATER VALVE W/TOP OF OPERATING NUT ELEVATION
- 8" VCP S EXISTING SANITARY SEWER LINE W/SIZE & TYPE (12" AND SMALLER)
- 30" VCP S EXISTING SANITARY SEWER LINE W/SIZE & TYPE (GREATER THAN 12")
- EXISTING MANHOLE
- M NEW MANHOLE
- CATCH BASIN, GUTTER INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB & GUTTER INLET (LENGTH TO SCALE)
- SD EXISTING STORM DRAIN LINE W/SIZE & TYPE (GREATER THAN 12")
- NEW PIPE FOR STORM DRAIN OR IRRIGATION LINE
- 4" G EXISTING GAS LINE W/SIZE
- E EXISTING UNDERGROUND ELECTRIC CABLE OR SINGLE CONDUIT
- E-40 EXISTING UNDERGROUND ELECTRIC DUCT (SPECIFY NUMBER)
- T EXISTING TELEPHONE BURIED CABLE OR SINGLE CONDUIT
- T-40 EXISTING UNDERGROUND TELEPHONE DUCT (SPECIFY NUMBER)
- CATV EXISTING UNDERGROUND CABLE TV
- FO EXISTING UNDERGROUND FIBER OPTIC LINE
- EXISTING TRAFFIC SIGNAL POLE W/MAST ARM & SIGNAL INDICATIONS
- EXISTING STREET OR TRAFFIC SIGN
- EXISTING UTILITY POLE W/LINE INDICATING WIRE DIRECTION
- EXISTING WIRE FENCE
- EXISTING BLOCK FENCE
- EXISTING WOOD FENCE
- MAIL BOX
- EXISTING POWER POLE DOWN GUY ANCHOR
- EXISTING STREET LIGHT & POLE
- EXISTING TREE OR STUMP TO BE REMOVED – MORE THAN 12" DIA.
- EXISTING TREE TO BE TRANSPLANTED BY CONTRACTOR
- EASEMENT LINE
- EXISTING OR NEW R/W LINE
- PAVEMENT CENTER LINE OR MONUMENT LINE
- EXISTING TREE OR STUMP TO BE REMOVED 12" DIA. OR LESS (NON PAY ITEM)
- EXISTING TREE TO REMAIN

**NOTES**

- 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.
- ALL STORM SEWER MANHOLES ARE TO BE CONSTRUCTED WITHOUT STEPS.
- NEW MANHOLE COVERS LOCATED IN SIDEWALK SHALL BE GROUND TO OBLITERATE RAISED LETTERING, AND PROVIDE A SMOOTH SURFACE FLUSH WITH THE ADJACENT SIDEWALK.
- PIPE CONNECTIONS TO EXISTING CONCRETE PIPE MAINS SHALL BE MADE IN ACCORDANCE WITH DETAILS CALLED OUT ON THE PLANS. CONNECTION TO MAINS SHALL NOT BE CLOSER THAN 5', CENTER TO CENTER.
- PIPE CONNECTIONS TO NEW PRECAST CONCRETE PIPE MAINS SHALL BE MADE WITH FACTORY MADE WYES OR TEES. THE DETAIL OF THE FITTINGS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE. PIPE CONNECTIONS TO NEW CAST IN PLACE CONCRETE PIPE MAINS SHALL BE MADE PER COP DETAIL P1576.
- CATCH BASIN CONNECTOR PIPES SHALL BE LAID ON A STRAIGHT ALIGNMENT AND SLOPE UNLESS OTHERWISE SPECIFIED. IF BREAKS IN ALIGNMENT OR SLOPE ARE NECESSARY TO MEET FIELD CONDITIONS. THE MAXIMUM DEFLECTION SHALL BE 22-1/2". THE BEND SHALL BE COLLARED ACCORDING TO COP DETAIL P1505. ANY ANGLE BENDS GREATER THAN 22-1/2" SHALL BE PREFABRICATED.
- CONNECTOR PIPES SHALL CONNECT TO CATCH BASIN WALLS AT AN ANGLE NOT TO EXCEED 22-1/2" FROM PERPENDICULAR.
- FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND HORIZONTAL CONTROLS, ARE LOCATED ONLY APPROXIMATELY AND TO THE BEST AVAILABLE INFORMATION PROVIDED BY VARIOUS OWNERS OF THE FACILITIES AND SUPPLEMENTED BY VISUAL SURFACE INFORMATION WHERE APPROPRIATE. ACCURACY, LOCATION AND COMPLETENESS OF THIS INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO INITIATION OF CONSTRUCTION.
- A ONE (1) FOOT MINIMUM VERTICAL SEPARATION FROM DRY UTILITIES CROSSINGS SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAIN, OR WATER SERVICE TO OUTSIDE UNDERGROUND UTILITY.
- AT LEAST TWO WORKING DAYS BEFORE CONSTRUCTION, THE CONTRACTOR SHALL CONTACT BLUESTAKE TO FIND AND FLAG UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONTACT OTHER APPROPRIATE UTILITIES DIRECTLY IF THEY ARE NOT ON BLUESTAKE SYSTEM.
- VERTICAL CONTROL IS BASED ON NATIONAL GEODETIC SURVEY.
- UNLESS OTHERWISE NOTED, STATIONS SHOWN ON PIPE PROFILES ARE ALONG CENTERLINE OF PIPE.
- UNLESS OTHERWISE NOTED, PIPE SHALL BE BEDDED IN ACCORDANCE WITH CITY OF PHOENIX DETAIL P1200.
- CATCH BASINS ARE STATIONED PERPENDICULAR TO THE CENTERLINE OF THE STREET AT THE CENTERLINE OF THE MAINTENANCE BASIN.
- SANITARY SEWER MAINS AND TAPS CROSSING OVER STORM DRAIN MAINS SHALL BE SUPPORTED PER MAG DETAIL 403-1, 403-2, OR 403-3.
- ALL EXISTING PRECAST CONCRETE SAFETY CURBS AND ALL EXISTING WOODEN PARKING CURBS WHICH ARE INSIDE THE RIGHT OF WAY AND APPROXIMATELY PARALLEL TO THE NEW CURB LINE SHALL BE RESET ON THE RIGHT OF WAY DIRECTLY OPPOSITE THEIR EXISTING LOCATION, WITH THE BACK EDGE ON THE RIGHT OF WAY LINE. ALL OTHER PRECAST CONCRETE SAFETY CURBS INSIDE THE STREET RIGHT OF WAY SHALL BE SALVAGED AND STOCK PILED FOR THE OWNER AT THE RIGHT OF WAY LINE.
- EXISTING PRECAST CONCRETE SAFETY CURBS OUTSIDE THE RIGHT OF WAY WHICH ARE DISTURBED BY NEW CONSTRUCTION SHALL BE RESET IN THEIR ORIGINAL POSITION BY THE CONTRACTOR. THERE WILL BE NO SEPARATE MEASUREMENT OR PAYMENT FOR THIS WORK, THE COST BEING CONSIDERED INCLUDED.
- ALL EXISTING DRIVEWAYS AND ALL EXISTING ALLEYS SHALL BE GRADED TO MATCH THE NEW WORK IN ACCORDANCE WITH STD DETAIL P1164, UNLESS OTHERWISE SPECIFIED. EXISTING SURFACING SHALL BE REMOVED AND REPLACED AS NECESSARY.

**NOTES CONT**

- CONTACT INSPECTOR IF LESS THAN 6 INCHES OR COVER WILL BE MAINTAINED BELOW SCARIFICATION DEPTH CONTRACTOR TO FIELD VERIFY DEPTH AT LOCATION OF NEW AC AND SIDEWALK.
- IN HISTORIC PRESERVATION ZONES, THE CONTRACTOR SHALL DISTURB AS LITTLE OF HISTORIC SIDEWALK AS POSSIBLE. UNLESS OTHERWISE PROVIDED ON THE PLANS:
  - THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING AC DRIVEWAYS SHALL BE FILLED WITH A MINIMUM OF 3" ACSC ON 100% COMPACTED NATIVE SOIL. WHERE EXISTING PAVEMENT AND BASE THICKNESS EXCEED THE MINIMUMS, MATCH THE EXISTING.
  - THE SPACE BETWEEN THE BACK OF NEW SIDEWALKS AND EXISTING PRIVATE SIDEWALKS, AND THE SPACE BETWEEN THE BACK OF NEW DRIVEWAY ENTRANCES AND EXISTING PCC DRIVEWAYS SHALL BE FILLED WITH PCC. THE THICKNESS AND CLASS SHALL MATCH THAT OF THE NEW SIDEWALK OR DRIVEWAY ENTRANCE.
  - THE SPACE BETWEEN THE BACK OF THE SIDEWALKS AND EXISTING AC PARKING LOTS, WHICH FALL WITHIN OR ABUT THE R/W SHALL BE FILLED WITH 2" ACSC ON 100% COMPACTED NATIVE SOIL.
- EXISTING IRRIGATION BERMS DISTURBED BY NEW CONSTRUCTION SHALL BE RECONSTRUCTED AS SHOWN ON PLANS.
- CATCH BASIN ACCESS FRAME AND COVERS SHALL BE CONSTRUCTED PER COP DETAIL P1561.
- ANY PERSON PERFORMING ACTIVITY OR OPERATING ANY MECHANICAL EQUIPMENT WITHIN 25 FT OF ANY OVERHEAD POWERLINES SHALL CONTACT SAFETY SERVICES AS 602-236-8117 OR EMAIL PUBLICSAFETY@SRPNET.COM TO SCHEDULE AN ONSITE POWERLINE PRECONSTRUCTION CONSULTATION.

**STR CT RAL NOTES**

- "CLEAR" DIMENSIONS FOR DEPTH OF REINFORCING STEEL ARE FROM FACE OF CONCRETE TO FACE OF BARS.
- ALL EXPOSED EDGES OF CONCRETE SHALL BE BEVELED OR ROUNDED.
- ALL EXPOSED CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) STANDARD SPECIFICATION 505.9 – FINISHING CONCRETE, UNLESS OTHERWISE SPECIFIED.

**PAVING NOTES**

- COMPACTION SHALL COMPLY WITH MAG SECTION 601.
- CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST APPLICABLE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS.
- THE CITY OF PHOENIX PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTION GROUP, 602-262-7811 VOICE OR 7-1-1 TTY, SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONSTRUCTION WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- 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.
- ALL NEW OR RELOCATED UTILITIES SHALL BE PLACED UNDERGROUND.
- THE ACTUAL POINT OF PAVEMENT MATCHING, AND/OR TERMINATION, SHALL BE DETERMINED IN THE FIELD BY THE PLANNING AND DEVELOPMENT DEPARTMENT CIVIL/SITE INSPECTOR.
- AN APPROVED PAVING PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDEDBY AN APPROVED PLAN REVISION.
- OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- 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.

**PAVING NOTES CONT**

- 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 CITY OF PHOENIX STANDARD DETAIL P1391.
- GRADING BETWEEN BACK OF CURB AND PROPERTY LINE SHALL BE LIMITED TO 4:1 SLOPE.
- THE PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR MUST CONTACT STREET TRANSPORTATION DEPARTMENT, TRAFFIC SERVICES DIVISION AT 602-495-0205 VOICE OR 7-1-1 TTY TWO (2) WEEKS PRIOR TO COMPLETION OF PAVING WORK FOR SIGNING & STRIPING.
- AUTHORIZATION TO RESTRICT OR CLOSE THE RIGHT-OF-WAY CAN ONLY BE OBTAINED THROUGH THE TRAFFIC SERVICES DIVISION, RIGHT- OF- WAY MANAGEMENT (ROWM) SECTION. TRACS PERMITS MUST BE OBTAINED FOR EACH INDIVIDUAL PROJECT THROUGH ROWM. TRACS PERMITS ARE APPROVED BASED ON THE PHASING OF THE PROJECT AND THE SCOPE OF WORK. PERMISSION TO RESTRICT CITY STREETS, SIDEWALKS AND ALLEYS (STREET CLOSURE PERMITS) SHALL BE REQUESTED AS SPECIFIED IN CHAPTER 2 OF THE TRAFFIC BARRICADE MANUAL, CURRENT VERSION AND ADDENDUMS THEREOF STREETS DEPARTMENT: RIGHT-OF-WAY MANAGEMENT OFFICE
- ASPHALT RESTORATION IS REQUIRED FOR ANY STREET CUT. REFER TO STREET PAVEMENT CUT POLICY (TRT 00164 AND ORDINANCE G-6308).
- PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER MAG. SECTION 336 AND CITY DETAIL P1200 -TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER MAG STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER C.O.P. DETAIL P1230.
- TREES AND SHRUBBERY IN THE R/W THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT A PPROVAL OF THE CITY LANDSCAPE ARCHITECT OR HIS ASSIGNEES. THE PERMITEE SHALL BE RESPONSIBLE FOR OBTAINING AUTHORIZATION TO REMOVE AND/OR RELOCATE SAID TREES OR SHRUBBERY BY CALLING THE PARKS AND RECREATION DEPARTMENT AT (602)262-6501 AND TRANSPORTATION DEPARTMENT AT (602)534-9898.
- PER THE STREET PAVEMENT CUT POLICY (TRT 00164) AND CITY ORDINANCE G-6308, ALL STREET PAVEMENT CUTS WILL REQUIRE ASPHALT RESURFACING TREATMENTS BASED ON THE AGE OF THE PAVEMENT. FOR STREETS LESS THAN TWO (2) YEARS OLD, THE PERMITEE MUST APPLY AN ASPHALT MILL AND OVERLAY PAVEMENT TREATMENT. FOR STREETS GREATER THAN TWO (2) YEARS OLD, THE PERMITEE MUST APPLY A SLURRY SEAL AND/OR MICROSEAL TREATMENT.
- ALL RAMPS MUST MEET 2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN AND CITY OF PHOENIX SUPPLEMENT TO MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS; 2% MAX CROSS SLOPES AND 12:1 MAX LONGITUDINAL SLOPES.

**ABBREVIATIONS**

- PC = PIPE CONNECTION
- MH = MANHOLE
- CB = CATCH BASIN

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

**LEGEND NOTES**

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

**SHEA BLVD**  
**24TH ST TO 26TH ST**  
**ST83140123**

DR: LNB	DES: CJR	CK: TMM	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	
SCALE: NONE	HORIZONTAL	G-1.01	

AMERICAN RESCUE PLAN ACT  
LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS – MARICOPA CO.

**WATER GENERAL NOTES**

**WATER NOTES CONT.**



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140123	45	50	
12/23					
DATE:					
DRAWN: LNB		DESIGN: CJR		CHECKED: TMM	

**WATER NOTES CONT.**

REVISION BY	DESCRIPTION	NO.	DATE

REVISION BY	DESCRIPTION	NO.	DATE

REVISION BY	DESCRIPTION	NO.	DATE

- ALL WATER VALVE BOXES SHALL BE PER CITY OF PHOENIX SUPPLEMENT TO MAG. SPECIFICATIONS AND DETAILS P1391, TYPE A ONLY.
- ALL CONSTRUCTION IN THE 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.
- 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 305-1 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.
- THE FOLLOWING M.A.G. DETAILS ARE SPECIFICALLY NOT APPROVED:
  - 302-1 JOINT RESTRAINT WITH TIE RODS
  - 302-2 JOINT RESTRAINT WITH TIE RODS – ANCHOR BLOCKS
  - 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
- COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601 AND CITY OF PHOENIX SUPPLEMENTS.
- NEW WATER LINES ARE TO BE BUILT IN ACCORDANCE WITH THE CITY OF PHOENIX "STANDARD UTILITY LOCATIONS".
- 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.
- PIPE DEFLECTION SHALL BE PER MANUFACTURERS' RECOMMENDATIONS.
- ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE CURRENT CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL".
- THE CONTRACTOR IS TO NOTIFY THE PUBLIC THAT WILL BE AFFECTED BY ANY SHUTDOWNS A MINIMUM OF 48 HOURS IN ADVANCE.
- 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.
- 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.
- A TWO (2) FOOT MINIMUM VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN ANY SEWER 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.
- EXCEPTIONS OR DEVIATIONS FROM THE ABOVE MINIMUM CLEARANCES MUST BE APPROVED AND SHOWN ON THE APPROVED WATER SEWER PLANS. WHEN UTILITY CONFLICTS ARE FOUND DURING CONSTRUCTION, ALL CHANGES AND REVISIONS MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
- 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.
- ALL SERVICES SHALL RUN IN A STRAIGHT LINE FROM THE WATER MAIN TO THE METER BOX.
- NEITHER WATER SERVICE METER BOX NOR ANY PORTION OF A WATER SERVICE SHALL BE INSTALLED UNDER AN EXISTING OR PROPOSED DRIVEWAY OR SIDEWALK RAMP.
- CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION.

- RECORD DRAWING SUBMITTALS MUST COMPLY PER THE WATER SERVICES DEPARTMENT ENGINEERING POLICY P-68 AND P-69. A COPY OF THE POLICY CAN BE OBTAINED IN THE DEPARTMENT'S WEBSITE: [HTTP://PHOENIX.GOV/WATERSERVICES/DESIGN/ENGPOLICIES/INDEX.HTML](http://PHOENIX.GOV/WATERSERVICES/DESIGN/ENGPOLICIES/INDEX.HTML)
- 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.
- 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.
- A PAVEMENT CUT SURCHARGE SHALL BE ASSESSED ON THIS PROJECT FOR ANY TRENCHING OR POTHOLING IN NEW ASPHALT PAVEMENT THAT IS LESS THAN 30 MONTHS OLD. SURCHARGE FEES ASSESSED ARE IN ADDITION TO THE REGULAR PERMIT FEES AND ARE OVER AND ABOVE ANY SPECIAL BACKFILL, COMPACTION, AND PAVEMENT REPLACEMENT STIPULATIONS THAT MAY BE IMPOSED AS A CONDITION OF PERMITTING. PAVEMENT CUT SURCHARGE FEES ARE ASSESSED IN ACCORDANCE WITH SECTION 31-38 OF THE PHOENIX CITY CODE.
- 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.
- 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 ACCESSIBILITY TO THE VALVE OPERATING NUT FOR ALL VALVES, WITHIN THE PROJECT BOUNDARIES. FAILURE TO MAINTAIN ACCESSIBILITY TO VALVES SHALL BE CAUSE FOR CANCELING THE SHUTDOWN AND THE CONTRACTOR MUST PROPERLY REQUEST A SCHEDULE REVISION.  
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.
- VALVE BOX REMOVAL – AFTER ACCEPTANCE OF THE NEW WATERLINES, FIRE HYDRANTS AND SERVICE CONNECTIONS THE CONTRACTOR SHALL SHUT THE VALVE, REMOVE THE BOX AND COVER, BACKFILL AND COMPACT THE VOID WITH ABC AS APPLICABLE, COVER WITH 2-INCH AC (C ) PAVEMENT, OR AS REQUIRED TO MATCH EXISTING GROUND.
- CUT AND PLUG –THE CONTRACTOR SHALL CUT AND PLUG EXISTING WATERLINES AS NOTED ON THE APPROVED PLANS AFTER ALL EXISTING WATER SERVICES HAVE BEEN TIED OVER TO THE NEW WATERLINE.
- SWING CONNECTIONS – AFTER THE NEW WATERLINE IS ACCEPTED FOR SERVICE, THE CONTRACTOR SHALL MAKE "SWING CONNECTIONS" TO EXISTING WATERLINES AS INDICATED ON THE APPROVED PLANS. "SWING CONNECTIONS" SHALL INCLUDE ALL PIPING AND APPURTENANCES (OFFSETS, BENDS, ETC.) REQUIRED TO AFFECT A CONNECTION.
- WATER SERVICES – THE CONTRACTOR SHALL REPLACE EXISTING WATER SERVICES AS INDICATED ON THE APPROVED PLANS WITH NEW SERVICE PIPE AND CURB STOP FOR THE RELOCATED EXISTING WATER METERS. (ALL SERVICE CONNECTIONS MUST BE AT MINIMUM 1-INCH. FOR 3/4-INCH METERS, A 3/4-INCH REDUCER MUST BE INSTALLED TO ACCOMMODATE THE METER).
- METER AND BOX – THE CONTRACTOR SHALL RELOCATE THE EXISTING METERS AND METER BOXES, AND CONNECT THEM AS INDICATED ON THE APPROVED PLANS AFTER THE NEW WATERLINE HAS BEEN ACCEPTED FOR SERVICE.
- NEW WATER METERS AND SERVICES WILL BE INSTALLED AFTER THE CONTRACTOR MAKES PROPER APPLICATION AND PAYS THE PREVAILING FEES. APPLICATION AND PAYMENT OF FEES CAN BE MADE AT THE FOLLOWING ADDRESS: CITY OF PHOENIX, WATER SERVICES DEPARTMENT, INFRASTRUCTURE RECORD SERVICES DIVISION, 200 WEST WASHINGTON STREET, 8TH FLOOR, PHOENIX, AZ 85003.
- SURPLUS ABANDONED FIRE HYDRANTS (BARREL PORTION ONLY) TO THE CITY OF PHOENIX WATER DEPARTMENT – SUPPORT SERVICES, 4436 N. 35TH AVENUE, PHOENIX. CONTACT THE WATER DEPARTMENT – SUPPORT SERVICES BY CALLING 602-262-5077 FOR ANY ADDITIONAL INFORMATION.
- CITY OF PHOENIX WATER DEPARTMENT PERSONNEL SHALL REMOVE ALL PROPOSED EXISTING WATER METERS THAT ARE TO BE ABANDONED ONCE ALL REQUIRED FEES HAVE BEEN PAID BY THE APPLICANT AT COUNTER 8 – CIVIL PERMITS, ON THE SECOND FLOOR OF CITY OF PHOENIX CITY HALL, LOCATED AT 200 W. WASHINGTON STREET.
- ALL CONSTRUCTION ACTIVITIES SHALL BE CONTAINED WITHIN THE PUBLIC RIGHT OF WAY OR IN EASEMENTS GRANTED FOR THE WATER AND/OR SEWER MAIN INSTALLATION.
- TRAFFIC CONTROL SHALL CONFORM TO THE RIGHT-OF-WAY MANAGEMENT PROGRAM (RMP), ADOPTED BY THE CITY OF PHOENIX AND SHALL ALSO BE SUBJECT TO CITY REVIEW AND APPROVAL.
- ALL DIMENSIONS SHOWN ARE TO THE MONUMENT LINE OTHERWISE. IN RIGHT OF WAY, UNLESS NOTED OTHERWISE.

- BIDDERS ARE ADVISED THAT THE LOCATION, NUMBER, AND TYPE OF UTILITIES SHOWN ON THESE PLANS AND SPECIFICATIONS ARE ONLY AS ACCURATE AS THE BEST INFORMATION AVAILABLE FROM PUBLIC UTILITIES, OWNERS, AND USERS AT THE TIME THESE PLANS AND SPECIFICATIONS WERE PREPARED. UNDERGROUND UTILITIES MAY BE PRESENT ON THIS PROJECT WHICH WERE NOT DISCLOSED TO THE ENGINEER. NO REPRESENTATION IS MADE THAT THE UTILITIES LOCATIONS INDICATED ON THESE PLANS ARE ACCURATE, COMPLETE, OR EXCLUSIVE. BIDDERS ARE ADVISED TO UNDERTAKE THEIR OWN INVESTIGATIONS OF EXISTING CONDITIONS BEFORE SUBMITTING A PROPOSAL ON THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ALL TEST PITS OR THE PRE-CONSTRUCTION INVESTIGATION OF UNDERGROUND UTILITIES OR STRUCTURE. PURSUANT TO ARIZONA REVISED STATUTE 40-360.21, THE CONTRACTOR MUST CONTACT "BLUE STAKE" AT (602)261-1100 OR THE APPROPRIATE PUBLIC UTILITY FOR ASSISTANCE IN LOCATING UNDERGROUND FACILITIES, LINES, AND APPURTENANCES PRIOR TO CONSTRUCTION.
- BY SUBMITTING A PROPOSAL ON THIS PROJECT, BIDDERS ARE REPRESENTING THAT THEY HAVE CONSIDERED THE POTENTIAL IMPACT OF TEMPORARY OR PERMANENT RELOCATION OF EXISTING UNDERGROUND UTILITIES LOCATED WITHIN THE PROJECT ON THEIR COSTS, AND THAT THEY HAVE INCLUDED IN THEIR PROPOSALS THE COST OF FINDING, PROTECTING, AND RELOCATING ALL EXISTING UTILITIES WITHIN THE PROJECT. NO ADDITIONAL COMPENSATION FOR DAMAGES WILL BE PAID FOR ANY COST, LOSS, DAMAGE, HINDRANCE, OR DELAY INCURRED BY A CONTRACTOR OR SUBCONTRACTOR DUE TO CONFLICTS WITH EXISTING UTILITIES; REGARDLESS OF WHETHER OR NOT THOSE UTILITIES ARE INDICATED ON THE PLANS OR SPECIFICATIONS FOR THIS PROJECT.
- THE SOLE AND EXCLUSIVE REMEDY FOR ANY COST, HINDRANCE, OR DELAY CAUSED BY ANY UTILITIES LOCATED WITHIN THE PROJECT (WHETHER OR NOT INDICATED ON THE PLANS OR SPECIFICATIONS) SHALL BE AN EXTENSION OF THE CONTRACT TIME; THE NEED FOR OR DURATION OF WHICH SHALL BE DETERMINED BY THE ENGINEER IN ITS SOLE DISCRETION.
- PER MAG SECTION 630, THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS AND TECHNICAL DATA REQUIRED FOR EVALUATING AND APPROVAL OF EACH TYPE OF VALVE. TAPPING SLEEVE AND VALVE AND BUTTERFLY VALVE. SHOP DRAWINGS MUST BE SUBMITTED TO WATER SERVICES AFTER THE ENGINEER OF RECORD HAS PROVIDED THEIR RECOMMENDATION OR APPROVAL.
- THE CONTRACTOR SHALL 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 UNLESS NOTED OTHERWISE. POLE BRACING MAY BE REQUIRED WHEN EXCAVATING NEAR POWER POLES.
- THE CONTRACTOR SHALL SUPPORT AND PROTECT IN PLACE ALL EXISTING UTILITIES WITHIN THE EXCAVATION AS REQUIRED BY THE MAG SPECIFICATIONS.
- 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.
- THE CONTRACTOR MUST PROTECT THE ADJACENT PROPERTY AND IMPROVEMENTS THERETO FROM ANY DAMAGE DURING CONSTRUCTION. ANY DAMAGE TO ADJACENT PROPERTY OR IMPROVEMENTS MUST BE REPAIRED OR REPLACED, TO THE PROPERTY OWNER'S SATISFACTION, AT THE CONTRACTOR'S EXPENSE.
- 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. THE CONTRACTOR SHALL SUBMIT THE DESIGN TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

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

**LEGEND NOTES**

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

**SHEA BLVD**  
**24TH ST TO 26TH ST**  
**ST83140123**

DR: LNB	DES: CJR	CK: TMM	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	
SCALE: NONE	HORIZONTAL		G-1.02

LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140123	46	50	
DATE: 12/23					
DRAWN: LNB    DESIGN: CJR    CHECKED: TMM					

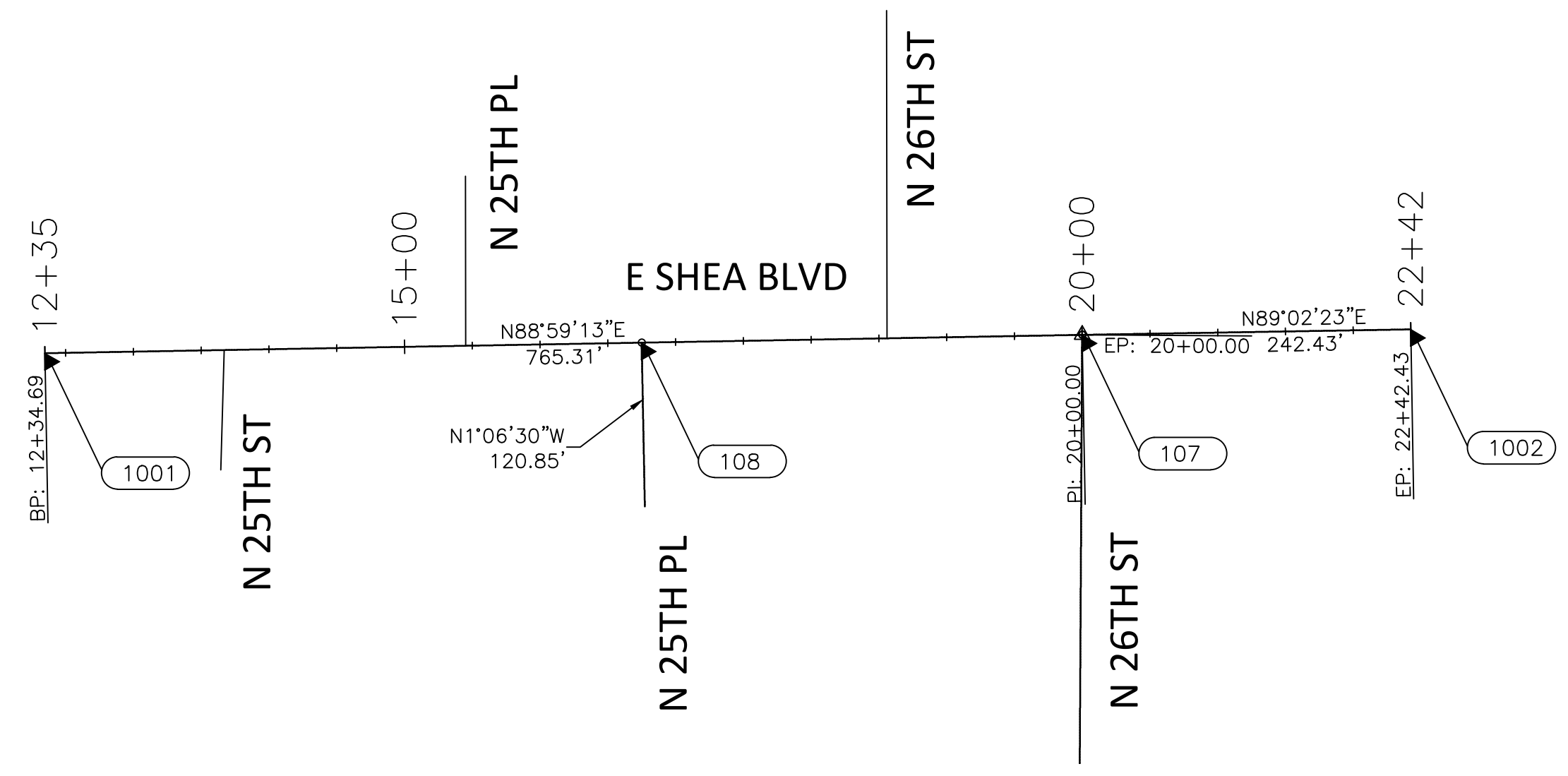
**CONTROL NOTE:**

THE HORIZONTAL DATUM IS NAD83(HARN) STATE PLANE, ARIZONA CENTRAL ZONE, ADJUSTED FROM GRID TO GROUND USING A COMBINED SCALE FACTOR OF 1.00016 WITH A SCALE POINT OF X=0.00, Y=0.00.

THE BASIS OF BEARING IS GRID NORTH NAD 83 STATE PLANE, ARIZONA CENTRAL ZONE

ELEVATIONS ARE ON THE NGVD27 VERTICAL DATUM

POINT	STATION	NORTHING	EASTING	DESCRIPTION
1001	12+34.69	939,545.38	665,994.06	CITY OF PHOENIX BRASS CAP
107	20+00.00	939,558.91	666,759.24	INTERSECTION OF 26TH ST AND SHEA BLVD
1002	22+42.43	939,562.97	667,001.64	CITY OF PHOENIX BRASS CAP
108	16+74.99	939,553.17	666,434.29	INTERSECTION OF 25TH PL AND SHEA BLVD



NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



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

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

**SHEA BLVD**  
24TH ST TO 26TH ST  
ST83140123

DR: LNB	DES: CJR	CHK: TMM	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	G-2.01
SCALE: 1"=100' HORIZONTAL			

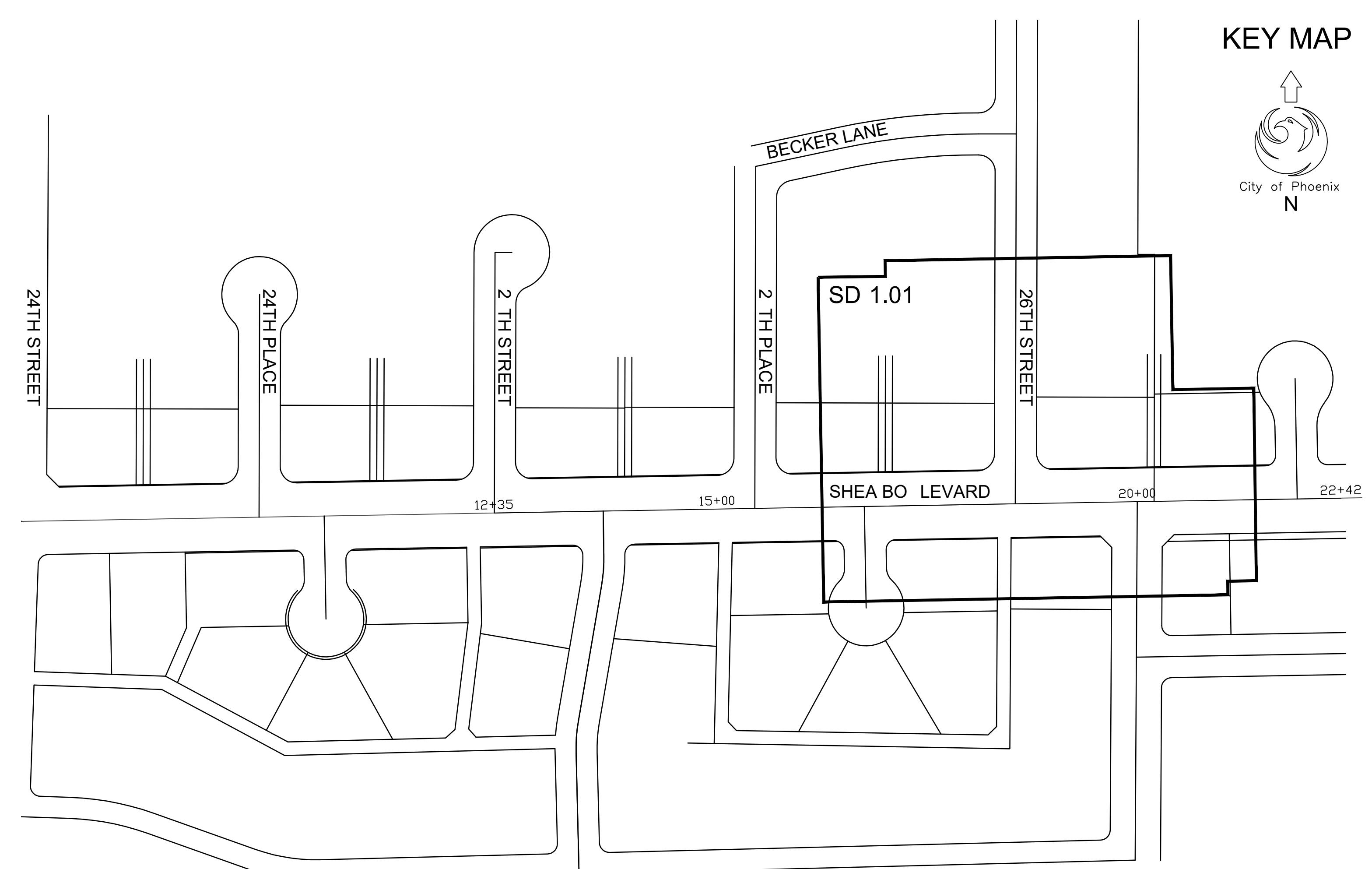
AMERICAN RESCUE PLAN ACT  
 LOCAL DRAINAGE MITIGATION PROGRAM  
 PHOENIX STREETS - MARICOPA CO.



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140123	47	50	
DATE: 12/23		<b>AZTEC</b>			
DRAWN: LNB		DESIGN: CJR	CHECKED: TMM		

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

ITEM No.	DESCRIPTION	QUANTITY SUMMARY		
		NIT	SHEET NUMBERS	TOTAL TY
M#####	(DESCRIPTION)	NIT	SD 4.01	TOTAL TY
M3001002	SAWCUT & REMOVE PORTLAND CEMENT CONCRETE CURB AND GUTTER	LF	248	248
M3001003	SAWCUT & REMOVE CONCRETE SIDEWALK & RAMP	SF	11 4	11 4
M3010001	SBGRADE PREPARATION	SY	14	14
M3360224	SAWCUT, REMOVE, AND REPLACE A.C. PAVEMENT, COP STD DET P-1200 MAG SPEC 336	SY	482	482
M3362002	SLURRY SEAL COAT	SY	608	608
M3400240	CONCRETE VALLEY GUTTER & APRON, MAG STD DTL 240	SF	118	118
M3400400	CONCRETE SIDEWALK, COP STD DTL P1230	SF	11 4	11 4
M3402201	CONCRETE CURB AND GUTTER, MAG STD DTL 220, TYPE A H=6"	LF	83	83
M3402222	CONCRETE SINGLE CURB, MAG STD DTL 222, TYPE "B"	LF	143	143
M3402243	CONCRETE CURB TRANSITION PER MAG STD DET 221	LF	20	20
M3 00020	REMOVE PORTLAND CEMENT VALLEY GUTTER	SF	118	118
M3 00041	REMOVE EXISTING 30" ST B PIPE	LF	8	8
M 0 1 24	CONCRETE CATCH BASIN, TYPE M, COP STD DTL P1569-1	EA		
M6014030	WATERLINE REPLACEMENT 6" & 12"	EA	4	4
M6012100	PERMANENT PIPE SUPPORT, MAG STANDARD DETAILS 403-1, 403-2, OR 403-3	EA	2	2
M61 3000	SANITARY SEWER ENCASEMENT, MAG STD DTL 404 3	LF	12	12
M618001	15" STORM DRAIN PIPE	LF	6	6
M6180018	18" STORM DRAIN PIPE	LF	66	66
M6180024	24" STORM DRAIN PIPE	LF	233	233
M6180036	36" STORM DRAIN PIPE	LF	1 2	1 2
M618042	PIPE PLUG, MAG STD DETAIL 427	EA	1	1
M6180 06	CONCRETE PIPE COLLAR FOR 24" PIPE COP STANDARD DETAIL P 1 0	EA	2	2
M6186004	18" X 18" X 15" PREFABRICATED TEE	EA	1	1
M6186032	36" X 36" X 18" PREFABRICATED TEE	EA	1	1
M62 000	STORM SEWER MANHOLE, MAG STD DETAIL 22, COP DTL P1 20	EA	4	4
M62 000	CONNECT NEW PIPE TO EXISTING MANHOLE	EA	1	1
M631000	WATER SERVICE CONNECTION (MAIN TO METER)	EA	1	1



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

**QUANTITY SUMMARY**

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

**SHEA BO LEVARD**  
**26TH ST AND SHEA BLVD**  
**ST83140123**

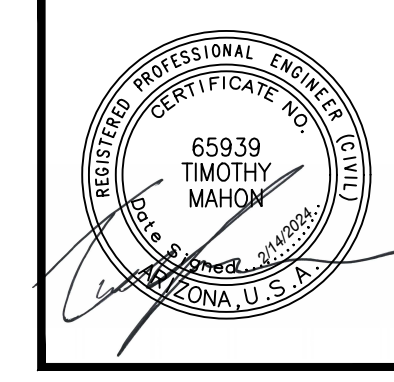
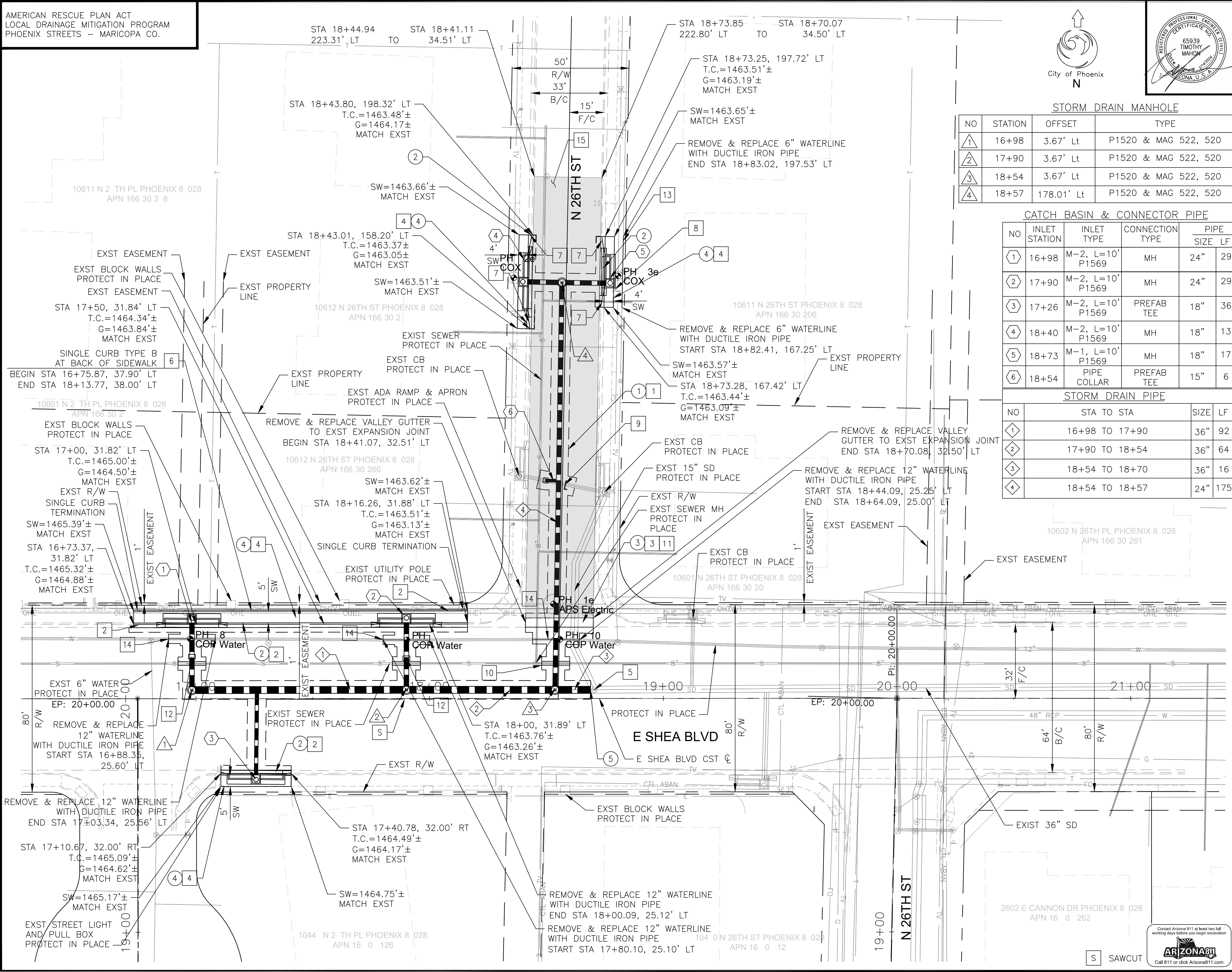
DR: LNB	DES: CJR	CHK: TMM	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	G-3.01
SCALE: NONE	HORIZONTAL		

AMERICAN RESCUE PLAN ACT  
LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS - MARICOPA CO.

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140123	48	50	

DATE: 12/23  
DRAWN: LNB DESIGN: CJR CHECKED: TMM

REMOVAL/RELOCATION NOTES			
NO	DESCRIPTION	UNIT	QTY
1	SAWCUT & REMOVE AC PAVEMENT PER COP STD DET P-1200 AND MAG SPEC 336	SY	482
2	SAWCUT & REMOVE PORTLAND CEMENT CONCRETE CURB AND GUTTER	LF	248
3	REMOVE PORTLAND CEMENT VALLEY GUTTER	SF	118
4	SAWCUT & REMOVE EXISTING CONCRETE SIDEWALK	SF	1,154
5	REMOVE EXIST 30" STUB OUT	LF	8

STORM DRAIN MANHOLE			
NO	STATION	OFFSET	TYPE
1	16+98	3.67' Lt	P1520 & MAG 522, 520
2	17+90	3.67' Lt	P1520 & MAG 522, 520
3	18+54	3.67' Lt	P1520 & MAG 522, 520
4	18+57	178.01' Lt	P1520 & MAG 522, 520

CATCH BASIN & CONNECTOR PIPE				
NO	INLET STATION	INLET TYPE	CONNECTION TYPE	PIPE SIZE LF
1	16+98	M-2, L=10', P1569	MH	24" 29
2	17+90	M-2, L=10', P1569	MH	24" 29
3	17+26	M-2, L=10', P1569	PREFAB TEE	18" 36
4	18+40	M-2, L=10', P1569	MH	18" 13
5	18+73	M-1, L=10', P1569	MH	18" 17
6	18+54	PIPE COLLAR	PREFAB TEE	15" 6

STORM DRAIN PIPE			
NO	STA TO STA	SIZE	LF
1	16+98 TO 17+90	36"	92
2	17+90 TO 18+54	36"	64
3	18+54 TO 18+70	36"	16
4	18+54 TO 18+57	24"	175

CONSTRUCTION NOTES		
NO	DESCRIPTION	UNIT QTY
1	PAVEMENT REPLACEMENT COP STD DET P-1200 AND MAG SPEC 336	SY 482
2	CONCRETE CURB AND GUTTER, MAG STD DTL 220, TYPE A H-6"	LF 83
3	CONCRETE VALLEY GUTTER & APRON, MAG STD DTL 240	SF 118
4	CONCRETE SIDEWALK, COP STD DTL P1230	SF 1,154
5	CONNECT TO EXISTING MANHOLE	EA 1
6	SINGLE CURB, MAG STD DETAIL 222, TYPE "B"	LF 143
7	CONCRETE CURB TRANSITION PER MAG STD DTL 221	LF 20
8	WATER SERVICE CONNECTION (MAIN TO METER)	EA 1
9	PIPE PLUG PER MAG DET 427	EA 1
10	SANITARY SEWER ENCASEMENT, MAG STD DET 404-3	LF 12
11	SUBGRADE PREPARATION	SY 14
12	CONCRETE PIPE COLLAR FOR 24" PIPE COP STD DETAIL P-1505	EA 2
13	WATER REPLACEMENT; INSTALLATION OF 6" D.I.P. CLASS 350. POLYETHYLENE WRAP, PER COP SPECIFICATIONS 750.2 AND MAG SPECIFICATIONS SECTION 610.6.2 & 610.6.3	EA 1
14	WATER REPLACEMENT; INSTALLATION OF 12" D.I.P. CLASS 350. POLYETHYLENE WRAP, PER COP SPECIFICATIONS 750.2 AND MAG SPECIFICATIONS SECTION 610.6.2 & 610.6.3	EA 3
15	SLURRY SEAL COAT	SY 608

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

**SHEA BO LEVARD**  
**26TH ST AND SHEA BLVD**  
**ST83140123**

DR: LNB DES: CJR CK: TMM  
DATE: 12/23/24 DATE: 12/23/24 DATE: 12/23/24  
SCALE: 1"=20' HORIZONTAL DRAWING SERIES NO. SD-1.01



LOCAL DRAINAGE MITIGATION PROGRAM  
PHOENIX STREETS - MARICOPA CO.

F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ	ST83140123	49	50	

12/23  
DATE: 12/23  
DRAWN: LNB DESIGN: CJR CHECKED: TM

**AZTEC**  
501 N. 44TH ST  
SUITE 300  
PHOENIX, AZ 85008  
PH: 602-954-1982  
WWW.AZTEC.COM

REVISION BY CITY OF PHOENIX

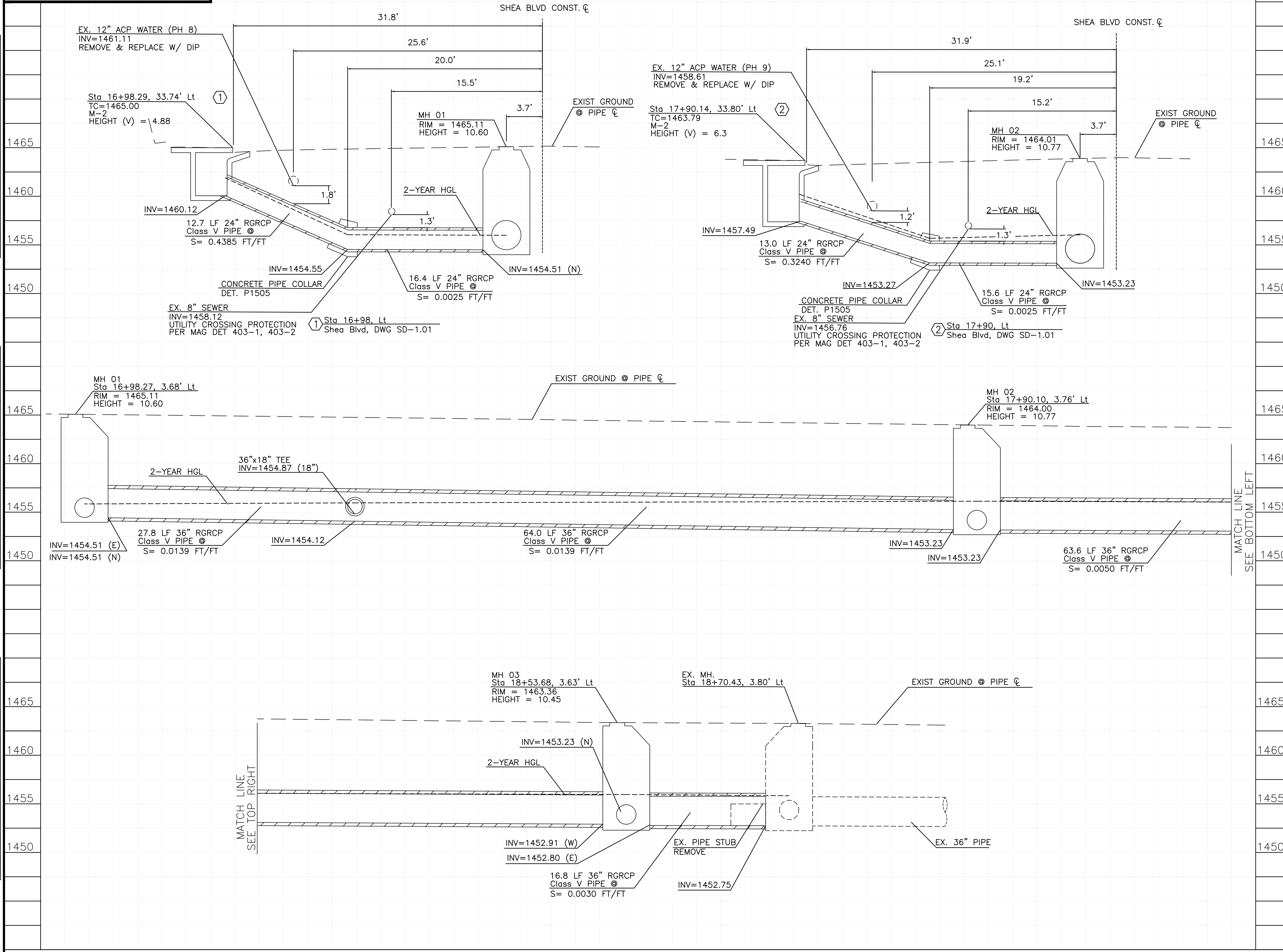
NO.	DESCRIPTION	REV BY	CHKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHKD BY	DATE

REVISION BY CITY OF PHOENIX

NO.	DESCRIPTION	REV BY	CHKD BY	DATE



REGISTERED PROFESSIONAL ENGINEER (CIVIL)  
65939  
TIMOTHY MAHON  
ARIZONA, U.S.A.

Contact Arizona 911 at least two full working days before you begin excavation

**ARIZONA 911**  
Call 911 or click Arizona911.com

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CONNECTOR PIPE PROFILES

CITY OF PHOENIX, ARIZONA  
STREET TRANSPORTATION DEPARTMENT

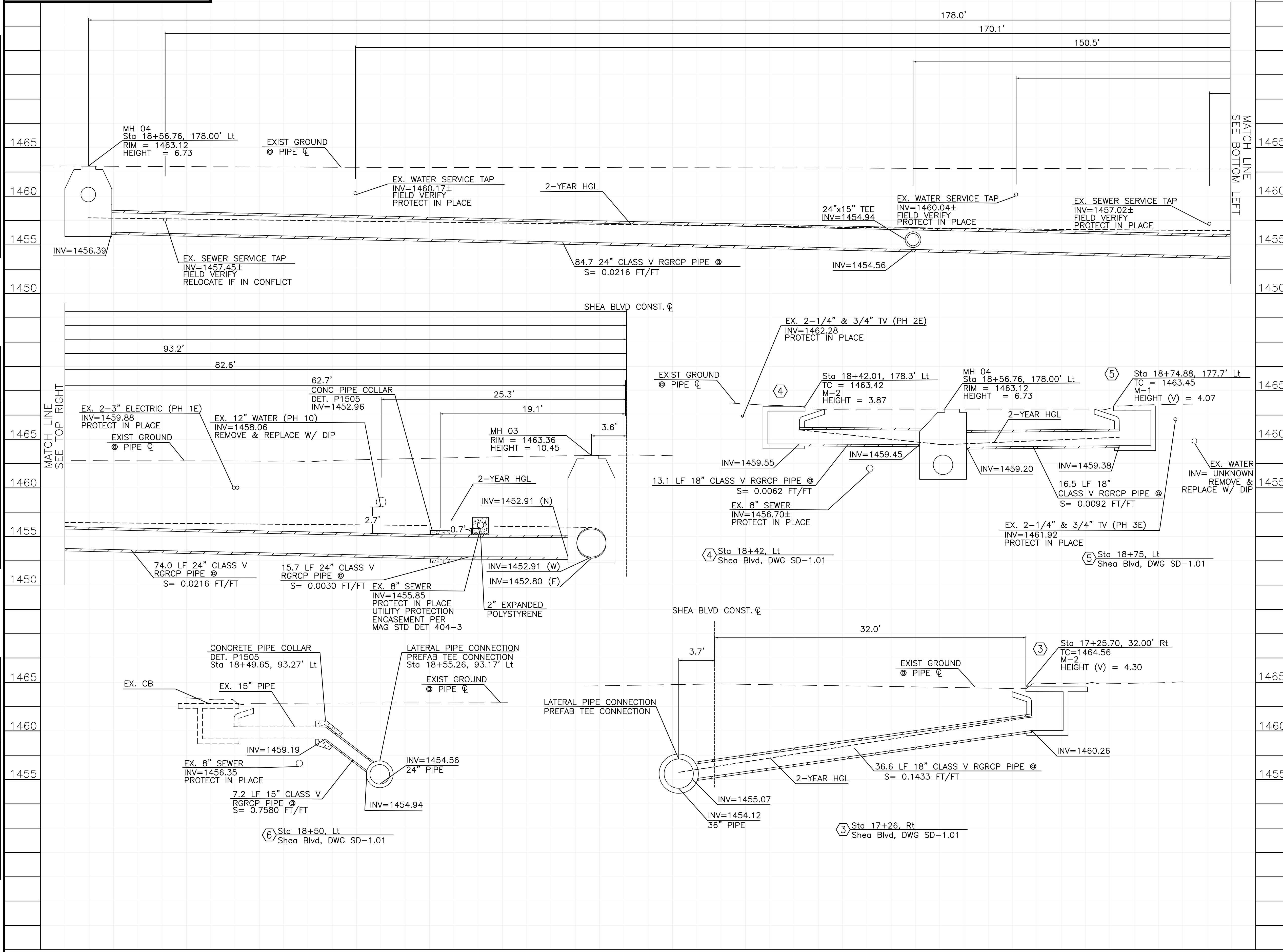
26TH ST AND SHEA BLVD  
ST83140123

DR: LNB	DES: CJR	CHK: TM	DRAWING SERIES NO.
DATE: 12/23	DATE: 12/23	DATE: 12/23	SD-2.01
SCALE: 1"=5'	HORIZONTAL	VERTICAL	

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



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

**CONNECTOR PIPE PROFILES**

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

**26TH ST AND SHEA BLVD**  
ST83140123