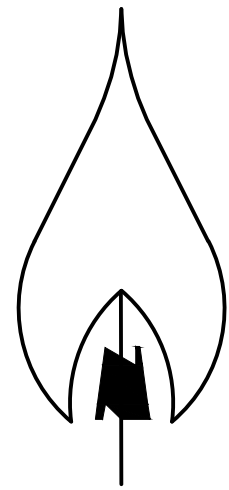
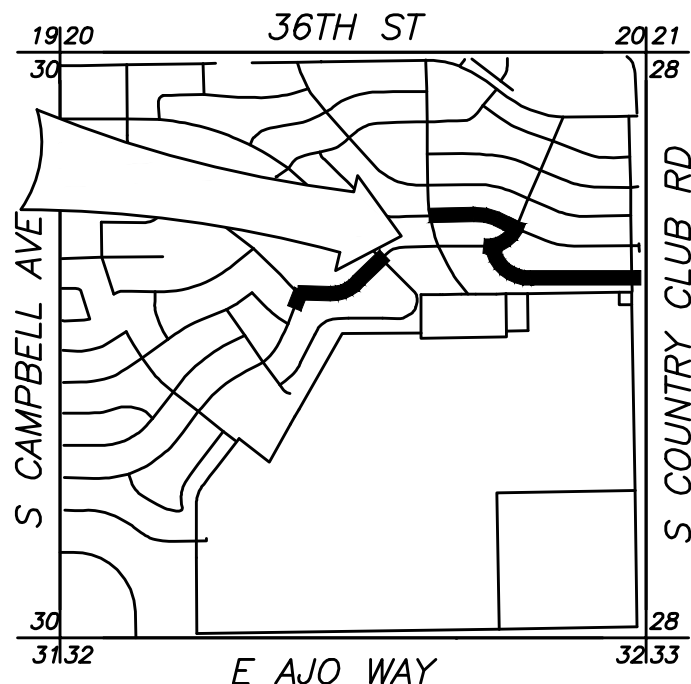


LAS VISTAS NEIGHBORHOOD MAIN REPLACEMENT PHASE II

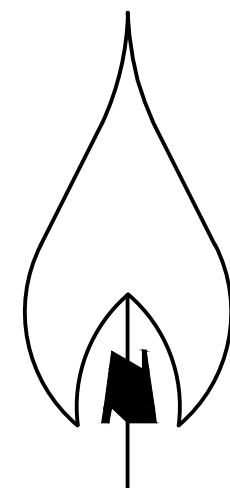
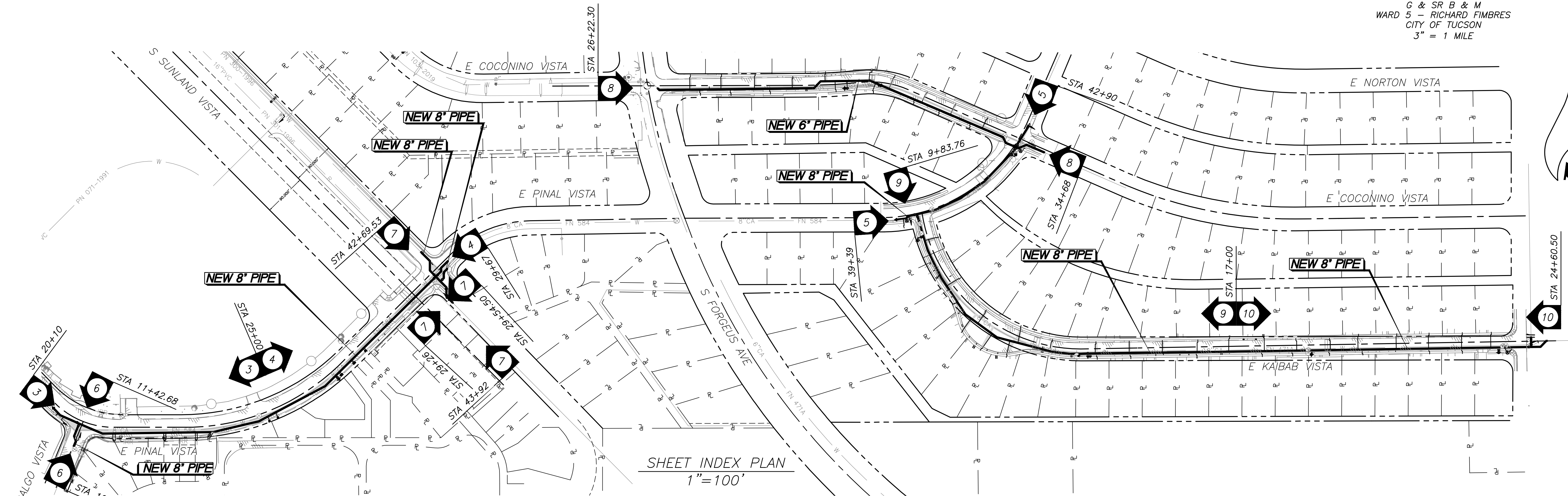
CIP No. PRJ000305

THIS PROJECT



LOCATION MAP

SEC 29, T14S, R14E
LATITUDE -110.93°N, LONGITUDE 32.18°W
G & SR B & M
WARD 5 - RICHARD FIMBRES
CITY OF TUCSON
3" = 1 MILE



SHEET INDEX PLAN
1"=100'

SHEET INDEX

SHT #	TITLE	
1	COVER SHEET & SHEET INDEX	
2	NOTES & LEGEND	
3	PINAL VISTA 1	STA 20+10 TO STA 25+00
4	PINAL VISTA 2	STA 25+00 TO STA 29+67
5	PINAL VISTA 3	STA 39+39 TO STA 42+90
6	HILDALGO VISTA	STA 10+95 TO STA 11+42.68
7	SUNLAND VISTA	STA 42+69.53 TO STA 43+92
8	COCONINO VISTA	STA 26+22.30 TO STA 34+68
9	KAIBAB VISTA 1	STA 9+83.76 TO STA 17+00
10	KAIBAB VISTA 2	STA 17+00 TO STA 24+60.50
11	PINAL VISTA METER SHEET	
12	COCONINO VISTA METER SHEET	
13	KAIBAB VISTA METER SHEET	
14	STORMWATER POLLUTION PREVENTION PLAN NOTES	
15	STORMWATER POLLUTION PREVENTION DETAILS	
16	SWPPP TOPOGRAPHIC MAP	
17	SURVEY CONTROL SHEET	

INSPECTOR'S RECORD DRAWING COMMENTS

INSPCT.: _____

CONTR.: _____

START: _____ FINAL: _____

PIPE: _____ DI/CI PVC/CI

SVC LINE MAT.: _____

B.F.'S.: _____

GATES: _____

F.H.'S BRAND: _____ MAT.: _____

MAGNETIC TAPE INST. YES NO

TRACER WIRE INST. YES NO

ALL VALVES WERE INSTALLED PER PLAN

Signature: _____

Date: _____

GPS LAT/LONG: YES NO

P24PW00197

UPC-2023-070

FOR ENGINEERING AS-BUILT RECORD DRAWING STAMP	 TUCSON WATER	APPROVED: John Van Winkle CHIEF ENGINEER DATE: 10/02/2024	CITY OF TUCSON LAS VISTAS NEIGHBORHOOD MAIN REPLACEMENT PH II
		Digitally signed by Scott Schladweiler Date: 2024.10.08 09:39:43 -0700 DEPUTY DIRECTOR DATE: 10/8/2024	COVER SHEET & SHEET INDEX
		DESIGNED BY: ROGELIO G-P DATE: 10/24 DRAWN BY: K PENDERGAST DATE: 10/24 CHECKED BY: G WRIGHT DATE: 10/24	SHEET 1 of 17 PLAN NO. 1-016-2023



NO.	BY	DATE	REVISION	APPR.	DATE

GENERAL CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE FOLLOWING: THE CONTRACT DOCUMENTS; TUCSON WATER STANDARD SPECIFICATIONS AND DETAILS, 2017 EDITION WITH LATEST REVISIONS; AND PAG STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS VOLUME 1, 2015 EDITION; AND DRAWINGS VOLUME 2, 2015 EDITION: A COPY OF THE ABOVE REFERENCES SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES. IF A CONFLICT EXISTS BETWEEN THE SPECIAL PROVISIONS IN THE CONTRACT SPECIFICATIONS AND THE STANDARD SPECIFICATIONS AND DETAILS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
2. ALL WORK SHALL BE PERFORMED BY A CONTRACTOR LICENSED BY THE STATE OF ARIZONA, AS DETERMINED BY THE ARIZONA REGISTRAR OF CONTRACTORS (A, A-12, A-16, CR-80, AND KA).
3. ALL NOTES IN TUCSON WATER STANDARD DETAIL (SD) SD-105, GENERAL CONSTRUCTION NOTES, SHALL APPLY TO AND BECOME AN INTEGRAL PART OF THIS PROJECT.
4. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF THE PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
5. THE OWNER/ENGINEER DOES NOT WARRANT THE LOCATION OF EXISTING UTILITIES SHOWN ON THE DRAWINGS TO BE EXACT, NOR IS IT WARRANTED THAT ALL EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS IN THE CITY OF TUCSON/PIMA COUNTY STANDARD SPECIFICATIONS SECTION 107-21, PAG STANDARD SPECIFICATIONS SECTION 107-21, AND WITH THE REQUIREMENTS OF ARIZONA REVISED STATUTES TITLE 40, INCLUDING PROVISIONS FOR DETERMINING THE LOCATION OF ALL UTILITIES IN THE WORK AREA PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY IMPROVEMENTS ENCOUNTERED IN THE COURSE OF THE WORK.
6. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS OF ALL TIE-IN LOCATIONS PRIOR TO THE START OF ANY CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE DRAWINGS INCLUDING CONFLICTS THAT MAY NOT SHOWN.
7. ANY SURVEY MONUMENT OR PROPERTY CORNER DISTURBED BY THIS CONSTRUCTION SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE BY A LAND SURVEYOR REGISTERED TO PRACTICE IN THE STATE OF ARIZONA, AND A RECORD OF SURVEY SHALL BE REQUIRED.
8. PIPELINE STATIONING AND OFFSETS FOR THIS PROJECT ARE FROM THE SURVEY CONTROL LINE, UNLESS OTHERWISE NOTED. ALL STATIONING IS ALONG THE SURVEY CONTROL LINE WITH OFFSETS TO THE PIPELINE.
9. NEW WATER MAIN SHALL BE INSTALLED WITH 44 INCHES MINIMUM COVER UNLESS OTHERWISE NOTED ON THE DRAWINGS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WATER METERS AND METER BOXES IN THE CONSTRUCTION AREA. THIS SHALL INCLUDE AND NOT BE LIMITED TO:

- A. REMOVAL:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF THE EXISTING METERS FROM THE METER BOXES, ALONG WITH THE REMOVAL OF THE EXISTING METER BOXES AND CAPPING/PLUGGING OF THE EXISTING SERVICE CONNECTION.
- B. RELOCATION/INSTALLATION:
DURING THIS OPERATION, METERS SHALL BE TAGGED WITH THE CORRECT ADDRESS TO VERIFY THEIR REINSTALLATION AT THE SAME LOCATION IF THE EXISTING METER IS AN AUTOMATED METER READER (AMR) WATER METER. IF THE EXISTING METER IS NOT AN AMR THE METER IS EXCHANGED/RETURNED TO TUCSON WATER FOR A NEW AMR TO BE INSTALLED AT THAT LOCATION.
- C. PROTECTION OF METERS:
AT ALL TIMES THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID ANY DAMAGE TO METERS. THE CONTRACTOR SHALL PROVIDE FOR THEIR SAFE STORAGE AND THE PROPER EQUIPMENT FOR THEIR HANDLING.
- D. ACCESS TO METERS:
THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL IN-SERVICE METERS DURING CONSTRUCTION. AT THE CLOSE OF THE PROJECT, THE CONTRACTOR SHALL CONFIRM THAT ALL METERS AND ALL METER BOXES ARE LEFT ACCESSIBLE AND THAT ALL METER BOXES ARE ADJUSTED TO FINAL GRADE.
- E. MATERIALS:
TUCSON WATER SHALL SUPPLY ALL NEW AMR MODEL WATER METERS AND METER BOXES TO BE INSTALLED AS PART OF THIS PROJECT.
- F. DISPOSAL OF EXISTING METER BOXES:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DISPOSAL OF ALL EXISTING METER BOXES NOT SUITABLE FOR REUSE/REINSTALLATION.

11. IF ANY EXISTING DETECTABLE MARKING TAPE IS DISTURBED OR DESTROYED DURING CONSTRUCTION, THE CONTRACTOR SHALL FURNISH AND INSTALL APPROPRIATE NEW TAPE. THERE SHALL BE NO ADDITIONAL CHARGE FOR THIS REINSTALLATION.
12. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPE, FITTINGS, APPURTENANCES OR ANY OTHER MATERIALS TO BE IN CONTACT WITH POTABLE WATER IN ACCORDANCE WITH THE LEAD-FREE REQUIREMENTS DEFINED BY THE "REDUCTION OF LEAD IN DRINKING WATER ACT OF 2011" AMENDING SECTION 1417 OF THE SAFE DRINKING WATER ACT.

SEWER CONSTRUCTION NOTES

1. ALL DESIGN STANDARDS, MATERIAL AND WORKMANSHIP FOR PUBLIC SANITARY SEWERS SHALL BE IN ACCORDANCE WITH PCRWDR ENGINEERING DESIGN STANDARDS AND PIMA COUNTY STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (CURRENT ADOPTED EDITIONS) SAID DOCUMENTS ARE AVAILABLE THROUGH THE PCRWDR WEBSITE (WWW.PIMA.GOV/WASTEWATERRECLAMATION).
2. THE CONTRACTOR SHALL CONTACT "ARIZONA 811" (DIAL 811 OR 1-800-782-5348) A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL KEEP ALL UNDERGROUND FACILITY LOCATION REQUESTS UP-TO-DATE AND COMPLY WITH ARIZONA REVISED STATUTES (A.R.S.), TITLE 40, CHAPTER 1, ARTICLE 6.3, SECTION 40-360.22. CONCERNS REGARDING THE ACCURACY BETWEEN THE UNDERGROUND FACILITY MARKINGS AND THE PROJECT PLANS SHALL BE IMMEDIATELY REPORTED TO THE DESIGN ENGINEER OR CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL

- PCRWDR MANHOLES AND CLEANOUTS LISTED IN THE PROJECT DOCUMENT HAVE BEEN IDENTIFIED BY ARIZONA 811 (FORMERLY BLUESTAKE). CONTACT THE PCRWDR FIELD ENGINEERING OFFICE AT (520) 724-2651 IF ADDITIONAL ASSISTANCE IS REQUIRED IN LOCATION MANHOLES AND CLEANOUTS.
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SANITARY SEWER MANHOLES AND CLEANOUTS AT ALL TIMES.
4. THE CONTRACTOR SHALL FIELD VERIFY EXISTING SEWER LINE ELEVATIONS AND ALIGNMENTS PRIOR TO CONSTRUCTION. VERIFICATION MAY REQUIRE POT-HOLING.
5. ANY HOUSE CONNECTION SEWER (HCS) OR BUSINESS CONNECTION SEWER (BCS) LINES ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED, REPAIRED, OR REROUTED, AS THE SITUATION DICTATES, PER PCRWDR STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. DETAIL NO. RWDR 400 AND AT NO EXPENSE TO THE PROPERTY OWNER OR PCRWDR. HCS AND BCS LINES ARE NOT OWNED OR MAINTAINED BY PCRWDR. PRIVATE CONNECTION SEWERS CONSTRUCTED PRIOR TO JANUARY 2006 ARE NOT REQUIRED TO BE LOCATED AND MARKED.
6. IMMEDIATELY REPORT ANY OF THE FOLLOWING TO THE PCRWDR OPERATIONS CONTROL CENTER (OCC) AT (520) 724-6047: ANY RELEASE OF SEWAGE, ANY DAMAGE TO THE PUBLIC SANITARY SEWER SYSTEM, OR THE DROPPING OF DEBRIS INTO A PUBLIC SANITARY SEWER MANHOLE. A PCRWDR REPRESENTATIVE WILL BE DISPATCHED TO THE SITE. THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION TO CONTAIN A SANITARY SEWAGE OVERFLOW (SSO). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS TO REPAIR THE SYSTEM, MITIGATE THE RELEASE OF SEWAGE, DISINFECT THE RELEASE AREAS, AND ANY REGULATORY PENALTIES LEVIED ON PCRWDR FOR SEWAGE ENTERING A NATURAL DRAINAGE WAY OR STORM WATER DRAINAGE SYSTEM. THE CONTRACTOR SHALL REPAIR ALL DAMAGE AS DIRECTED AND APPROVED BY THE PCRWDR FIELD REPRESENTATIVE.
7. MODIFICATION TO OR ADJUSTMENT OF EXISTING PIMA COUNTY SEWER FACILITIES SHALL NOT COMMENCE UNTIL: A) THE CONTRACTOR HAS OBTAINED A PCRWDR PUBLIC SEWER CONSTRUCTION PERMIT (CONTACT THE PCRWDR PERMIT SECTION AT (20)724-6649 FOR APPLICATION REQUIREMENTS); B) THE CONTRACTOR'S FLOW MANAGEMENT PLAN HAS BEEN SUBMITTED THIRTY (30) CALENDAR DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING AND APPROVED BY PCRWDR FIELD ENGINEERING; C) A PRE-CONSTRUCTION MEETING WITH THE ASSIGNED PIMA COUNTY PROJECT FIELD INSPECTOR IS SCHEDULED AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO THE COMMENCING WITH SEWER CONSTRUCTION.
8. THE CONTRACTOR SHALL SUBMIT A FLOW MANAGEMENT PLAN (FMP) TO PCRWDR FIELD ENGINEERING FOR APPROVAL BEFORE PROCEEDING WITH ANY WORK THAT MAY AFFECT LIVE SEWERS. THE FMP SHALL IDENTIFY AND INCLUDE ALL FLOW MANAGEMENT COSTS IN THE CONSTRUCTION BID. THE FMP SHALL BE SUBMITTED THIRTY (30) CALENDAR DAYS PRIOR TO THE SEWER PRE-CONSTRUCTION MEETING. FIELD ENGINEERING WILL REVIEW THE FMP WITHIN TEN (10) BUSINESS DAYS TO ACCOMMODATE REVIEW AND REVISION CYCLES. REFER TO PCRWDR STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, SECTION 2 FOR FMP REQUIREMENTS. PLEASE CONTACT PCRWDR FIELD ENGINEERING AT (520) 724-2654 FOR ANY QUESTIONS REGARDING FLOW MANAGEMENT.
9. ANY WORK INSIDE OR AROUND AN EXISTING SANITARY SEWER MANHOLE INCLUDING MANHOLES THAT ARE LOCATED WITHIN THE ROUGH GRADING LIMITS FOR A PROJECT, SHALL BE PROTECTED FROM FALLING DEBRIS BY INSTALLING FLOW CHANNEL COVER PER PCRWDR STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, DETAIL RWDR-306. THE CONTRACTOR SHALL REMOVE ANY DEBRIS THAT ENTERS A MANHOLE DURING CONSTRUCTION. FAILURE BY THE CONTRACTOR TO PROMPTLY REMOVE DEBRIS FROM A MANHOLE SHALL RESULT IN PCRWDR TAKING CORRECTIVE ACTION THAT WILL THEN BE BILLED TO THE CONTRACTOR.

CITY OF TUCSON DEPARTMENT OF TRANSPORTATION AND MOBILITY NOTES (DTM)

1. CONTRACTOR MUST OBTAIN AN EXCAVATION AND BARRICADING PERMITS FROM DTM ENGINEERING DIVISION PRIOR TO ANY WORK IN CITY PUBLIC RIGHT-OF-WAYS.
2. PRIOR TO STARTING WORK, WITHIN THE PUBLIC RIGHTS-OF-WAY, THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE CITY OF TUCSON DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY INSPECTOR.
3. THE EXTENT AND TYPE OF SURFACE TREATMENTS/REPAIRS INDICATED ON THE PLANS MAY NOT BE ALL INCLUSIVE OF THE WORK THAT IS NEEDED. DEPENDING ON FIELD CONDITIONS, ADDITIONAL WORK MAY BE REQUIRED.
4. ALL BACKFILL, WITHIN CITY OF TUCSON RIGHT-OF-WAY, ABOVE THE UTILITY SHADING SHALL BE CONDUCTED IN ACCORDANCE TO PAG (2015) STANDARD SPECIFICATIONS AND DETAILS, PUBLIC UTILITY ADMINISTRATIVE MANUAL AND AS DIRECTED BY CITY OF TUCSON RIGHT-OF-WAY INSPECTOR AND CITY ENGINEER.
5. ALL PERMANENT PAVEMENT PATCHING, WITHIN CITY OF TUCSON RIGHT-OF-WAY, SHALL BE CONDUCTED IN ACCORDANCE TO THE PAG (2015) STANDARD SPECIFICATIONS AND DETAILS, PUBLIC UTILITY ADMINISTRATIVE MANUAL AND AS DIRECTED BY CITY OF TUCSON RIGHT-OF-WAY INSPECTOR AND CITY ENGINEER.
6. IN ACCORDANCE TO CITY OF TUCSON TECHNICAL STANDARD MANUAL SEC. 10-02.3.3.B.5, PERMANENT PAVEMENT PATCHING SHALL BE WARRANTIED FOR 5-YEARS; PAVEMENT PATCH'S FAILING WITHIN THIS PERIOD SHALL BE REPAIRED/REPLACED AT NO COST TO THE CITY OF TUCSON.
7. CONTRACTOR/APPLICANT/ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR COMPLYING WITH FLOOD, EROSION AND STORM WATER POLLUTION PREVENTION REQUIREMENTS, AND IF REQUIRED, OBTAINING NOI/NOT/STORMWATER, FLOODPLAIN, PERMITS AS REQUIRED BY STATE AND LOCAL AGENCIES FOR THE WORK SHOWN ON THESE PLANS.
8. ASPHALTIC CONCRETE SHALL CONFORM TO PAG REPLACEMENT SPECIFICATION FOR SECTION 406 ASPHALTIC CONCRETE MIX NO. 2, DATED DECEMBER 19, 2020.
9. CONTRACTOR SHALL MAINTAIN SITE SAFETY AND PEDESTRIAN ACCESS THROUGH OR AROUND THE WORK SITE, PURSUANT TO MUTCD RECOMMENDATIONS. FOR WORK ON MAJOR OR COLLECTOR ROADWAYS (>25MPH), PEDESTRIAN CIRCULATION SHALL BE PROVIDED THROUGH OR AROUND THE WORK SITE AND NOT DETOURED TO THE OTHER SIDE OF THE STREET.

LEGEND

WATER SYMBOLS

FEATURE	NEW
WATER MAIN	
WATER MAIN (LATERAL)	
RECLAIMED WATER MAIN	
BEND (SOLID SLEEVE, 11.25, 22.5, 45, 90)	
TEE, CROSS, VERTICAL BEND PLAN VIEW	
REDUCER/INCREASER	
COMBINATION ARV RELEASE AND VACUUM VALVE ASSEMBLY AND SIZE (ARV)	
BACKFLOW PREVENTION DEVICE	
DRAIN VALVE ASSEMBLY, RECLAIMED	
MODIFIED DRAIN VALVE ASSEMBLY, RECLAIMED	
FIRE HYDRANT	
WATER POTABLE WELL	
WATER QUALITY SAMPLING	
WATER METER	
GATE VALVE (PROFILE)	
METER RELOCATION SERVICE LINE RENEWAL	
SERVICE LINE RENEWAL	
WATER SERVICE STUB	
ABANDONMENT (CUT & PLUG)	

UTILITY SYMBOLS

FEATURE	SYMBOL
EXIST SANITARY SEWER	
EXIST GAS	
EXIST UNDERGROUND ELECTRIC	
EXIST OVERHEAD ELECTRIC	
EXIST UNDERGROUND COMMUNICATION	
EXIST OVERHEAD COMMUNICATION	
EXIST UNDERGROUND FIBER OPTIC	
EXIST OVERHEAD FIBER OPTIC	
EXIST SEWER MANHOLE	
EXIST SEWER CLEAN-OUT	
EXIST GAS METER	
EXIST GAS VALVE	
EXIST ELECTRIC BOX	
EXIST POWER POLE W/GUY	
EXIST ELECTRIC PEDESTAL	
EXIST ELECTRIC PULLBOX	
EXIST ELECTRIC TRANSFORMER	
EXIST STREET LIGHT	
EXIST TELEPHONE PEDESTAL	
EXIST TELEPHONE POST	
EXIST CABLE TV PEDESTAL	
EXIST COMMUNICATION PULLBOX	
POST UTILITY MARKER (WATER, RECLAIMED WATER, GAS FIBER OPTIC)	

BOUNDARY AND MARKER SYMBOLS

EXIST FENCE LINE	
EXIST CHAIN LINK FENCE LINE	
EXIST WROUGHT IRON FENCE LINE	
EASEMENT	
PROPERTY LINE	
RIGHT-OF-WAY (R/W)	
SECTION LINE	
SURVEY CONTROL LINE	
SURVEY BRASS OR ALUMINUM MONUMENTS	
SURVEY IRON PINS	
SURVEY NAILS	
SURVEY PIPES	

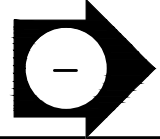
CULTURE

NEW PAVEMENT REPLACEMENT	
EXIST PAVED ROADWAY WITH CURB	
EXIST TREE(MESQ, PALO VERDE, PALM, PINE, STUMP)	
EXIST BUSH	
EXIST SAGUARO/ CACTUS	
EXIST ROAD SIGNS	
BOLLARD	
MAILBOX	
POLE	
POST	

ABBREVIATIONS

& L AHD ARV ASM B & C BK BSM BTWN CA CALC CAV CONC CTS G DET DIP ECC ELEC ELEV FH FLG G GM GV HDPE HORIZ INVERT LF MAX MH MIN N NPI NTS OHE PAG PC PCDOT PCFCD PCRWDR PE PN PP PT PVC R/W RB RCP RED RO S SD-XXX SHT SMH SQ SS ST STA STL THK UNK VCP VERT W WO YD	AND PROPERTY LINE AHEAD AIR RELEASE VALVE ALUMINUM SURVEY MONUMENT BOX & COVER BACK BRASS SURVEY MONUMENT BETWEEN CEMENT ASBESTOS CALCULATED COMBINATION AIR RELEASE VALVE CONCRETE CORROSION TEST STATION CENTER LINE DETAIL DUCTILE IRON PIPE ECCENTRIC ELECTRIC ELEVATION FIRE HYDRANT FLANGE NATURAL GAS GAS METER GATE VALVE HIGH DENSITY POLYETHYLENE HORIZONTAL INVERT LINEAR FEET MAXIMUM MAN HOLE MINIMUM NORTH NON PAY ITEM NOT TO SCALE OVERHEAD ELECTRIC PIMA ASSOCIATION OF GOVERNMENTS POINT OF CURVATURE PIMA COUNTY DEPT. OF TRANSPORTATION PIMA COUNTY FLOOD CONTROL DISTRICT PIMA COUNTY REGIONAL WASTEWATER RECLAMATION DEPARTMENT PLAIN END OR POLYETHYLENE PLAN NUMBER POWER POLE POINT OR POINT OF TANGENCY POLYVINYL CHLORIDE RIGHT-OF-WAY REBAR REINFORCED CONCRETE PIPE REDUCER ROTATED SOUTH STANDARD DETAIL SHEET SANITARY MANHOLE SQUARE STAINLESS STEEL OR SANITARY SEWER (PCWMMD) STREET OR SPIRAL TO TANGENT STATION STEEL THICK UNKNOWN VITRIFIED CLAY PIPE VERTICAL WEST WORK ORDER YARD
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SHEET NUMBER IDENTIFIER:



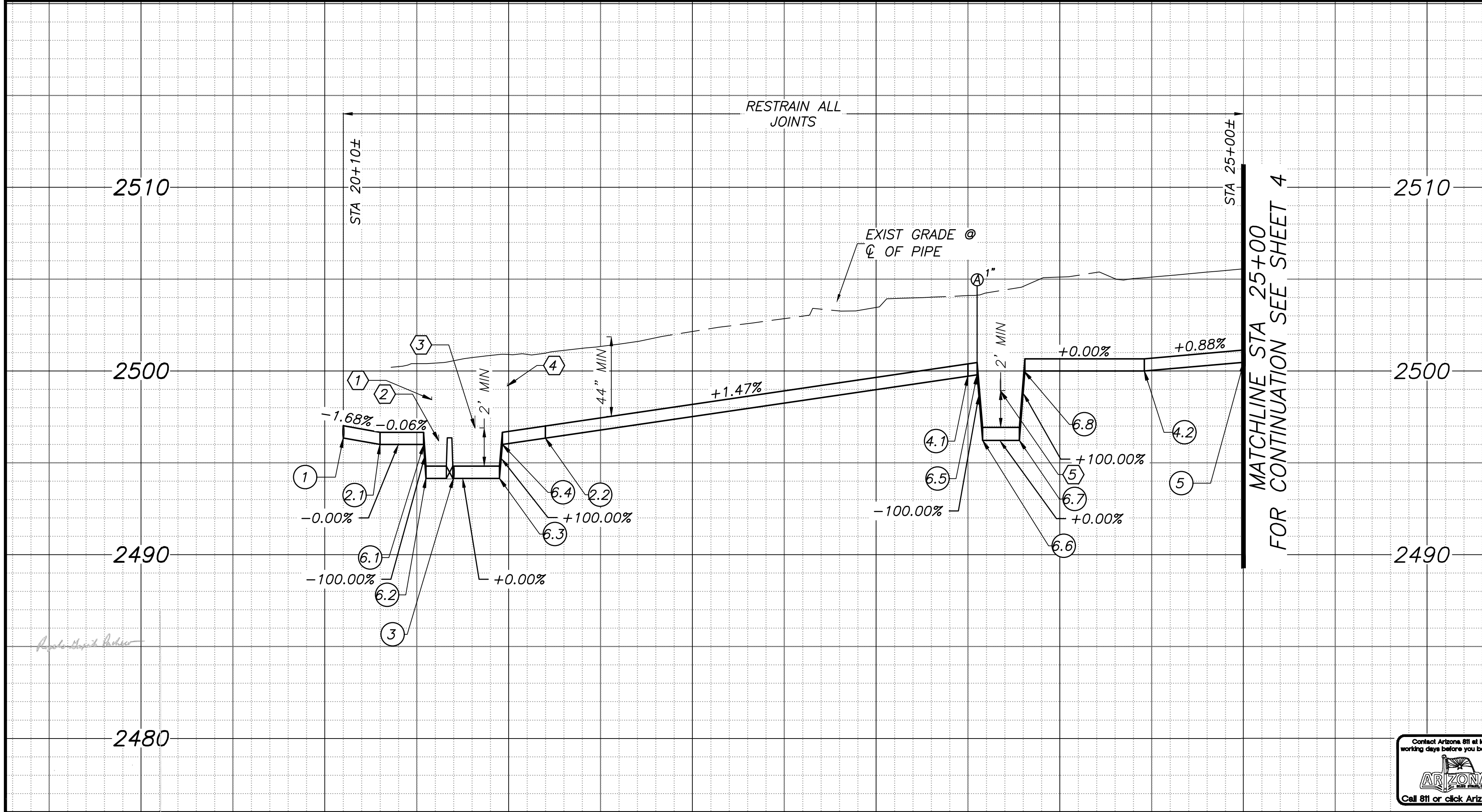
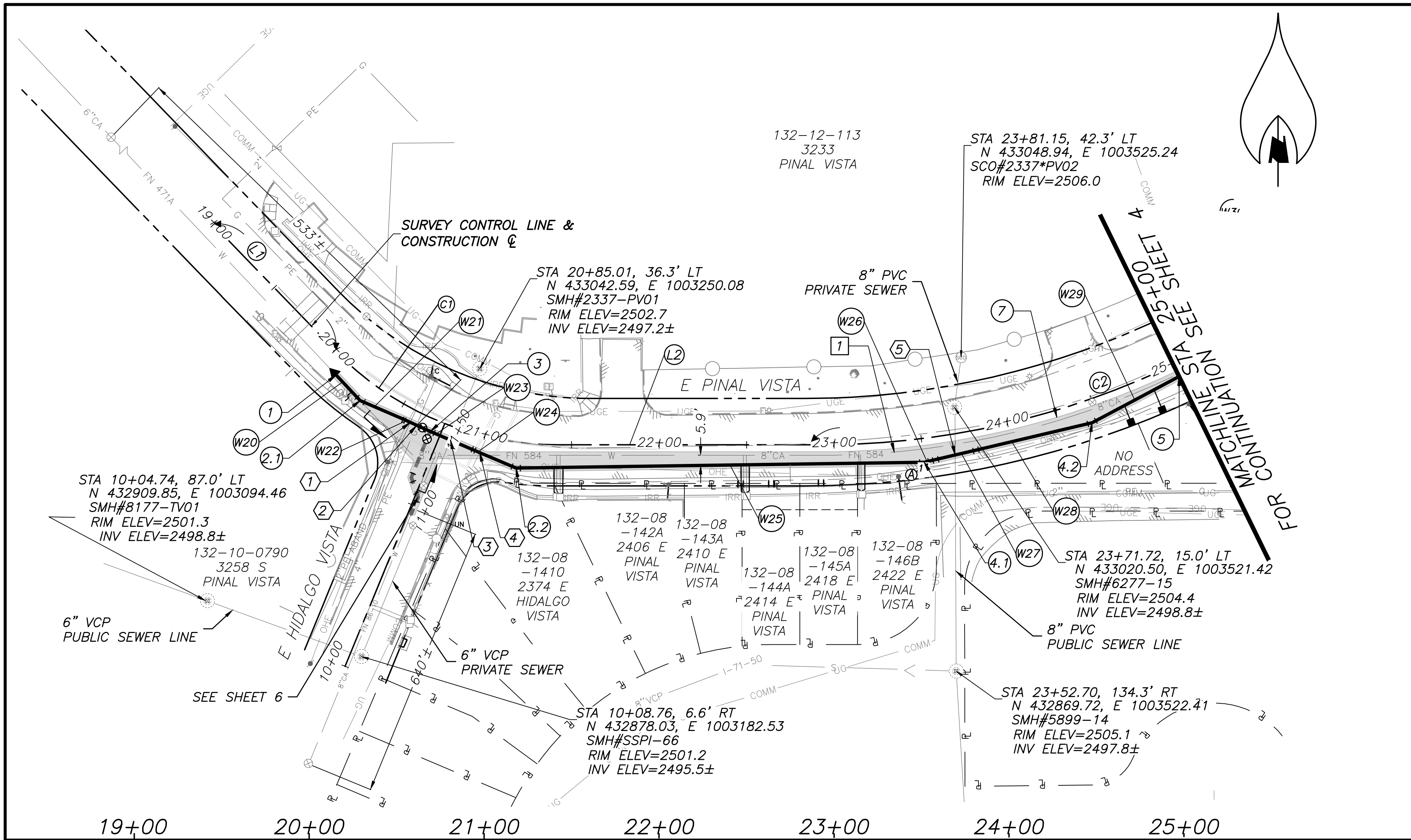
NO.	BY	DATE	REVISION	APPR.	DATE



LAS VISTAS NEIGHBORHOOD
MAIN REPLACEMENT PH II

NOTES & LEGEND

DESIGNED BY: ROGELIO G-P	DATE: 10/24	SURVEY REQUEST NO. SR3545	SHEET 2 of 17
DRAWN BY: K PENDERGAST	DATE: 10/24	SCALE: VERT: NO SCALE HORIZ: NO SCALE	PLAN NO.
CHECKED BY: G. WRIGHT	DATE: 10/24		1-016-2023



- REFERENCE NOTES
- 1 STA 20+58.16, 7.6' RT
N 433011.72, E 1003210.39
INV ELEV=2498.44
ABANDONED IN PLACE 2" PE GAS
 - 2 STA 20+61.93, 7.5' RT
N 433010.03, E 1003213.94
INV ELEV=2496.20
EXIST 4" PE GAS
 - 3 STA 20+82.13, 7.7' RT
N 433001.77, E 1003233.32
BOTTOM OF SEWER = 2496.90, TOP OF WATER = 2494.90
REPLACE EXIST 6" VCP WITH 6" PVC PER SD-106,
WHERE SD-106 NOTE 2 "APPROVED EQUAL" PIPE
MATERIAL IS AWWA C900 DR25 OR D3034 DR26 PVC
PIPE. DUCTILE IRON IS NOT ACCEPTABLE FOR SEWER
PIPE REPLACEMENT.
 - 4 STA 20+99.36, 9.8' RT
N 432994.67, E 1003250.06
INV ELEV=2499.19
EXIST UNDERGROUND COMMUNICATION
 - 5 STA 23+67.68, 12.0' RT
N 432993.24, E 1003521.89
INV ELEV=2498.94
BOTTOM OF SEWER = 2498.93, TOP OF WATER 2491.09
REPLACE EXIST 6" VCP WITH 6" PVC PER SD-106,
WHERE SD-106 NOTE 2 "APPROVED EQUAL" PIPE
MATERIAL IS AWWA C900 DR25 OR D3034 DR26 PVC
PIPE. DUCTILE IRON IS NOT ACCEPTABLE FOR SEWER
PIPE REPLACEMENT.

WATER LINE TABLE			
LINE #	BEARING	LENGTH	SIZE/MATL
W20	S43°22'01"E	20.01	8" DIP
W21	S66°35'02"E	26.75	8" DIP
W22	S65°34'20"E	16.94	8" DIP
W23	S66°54'16"E	27.88	8" DIP
W24	S66°54'16"E	25.58	8" DIP
W25	N89°11'34"E	233.30	8" DIP
W26	N76°42'56"E	5.13	8" DIP
W27	N76°42'56"E	26.80	8" DIP
W28	N76°42'56"E	66.65	8" DIP
W29	N62°01'42"E	55.44	8" DIP

CURVE TABLE			
CURVE #	RADIUS	LENGTH	DELTA
C1	176.90	141.87	45°57'00"
C2	465.60	381.43	46°56'18"

LINE TABLE		
LINE #	BEARING	LENGTH
L1	S44°03'00"E	100.00
L2	N90°00'00"E	145.20

- REMOVE/ ABANDON NOTES
- 1 STA 20+10.00, 13.4' RT TO STA 25+00, 6.0' RT
REMOVE & DISPOSE 10" CA AND SMALLER PIPE
UNDER PAVEMENT TO NEAREST JOINT PER SD-350 490 ± LF
- CONSTRUCTION NOTES
- 1 BEGIN CONSTRUCTION
STA 20+10.00, 9.6' RT
N 433038.91, E 1003167.98
INV ELEV=2496.35
CONNECT TO EXIST 6" CA (FN 584) 1 EA
8" X 6" REDUCER 1 EA
 - 2.1 STA 20+28.72, 12.03' RT (HORIZ)
Δ=23°13'01" (LT)
N 433024.37, E 1003181.72
INV ELEV=2496.00
 - 2.2 STA 21+20.00, 14.75' RT (HORIZ)
Δ=23°54'10" (LT)
N 432985.77, E 1003270.86
INV ELEV=2496.34
8" x 22 1/2" BEND 2 EA
 - 3 STA 20+70.00, 7.3' RT
N 433006.73, E 1003221.69
INV ELEV=2494.16
8" X 8" TEE 1 EA
8" GATE VALVE B&C (S, W) 2 EA
 - 4.1 STA 23+50.00, 13.60' RT (HORIZ)
Δ=12°28'38" (LT)
N 432989.05, E 1003504.14
INV ELEV=2499.72
 - 4.2 STA 24+46.00, 13.03' RT (HORIZ)
Δ=14°41'13" (LT)
N 433011.70, E 1003600.08
INV ELEV=2500.00
8" x 11 1/2" BEND 2 EA
 - 5 STA 25+00.00, 7.4' RT
N 433037.71, E 1003649.04
INV ELEV=2500.48
MATCHLINE 1 EA
 - 6.1 STA 20+53.75, 7.8' RT (VERT)
N 433013.74, E 1003206.26
INV ELEV=2496.00
 - 6.2 STA 20+54.96, 7.6' RT (VERT)
N 433013.24, E 1003207.42
INV ELEV=2494.16
 - 6.3 STA 20+95.00, 9.1' RT (VERT)
N 432996.45, E 1003245.78
INV ELEV=2494.16
 - 6.4 STA 20+96.58, 9.3' RT (VERT)
N 432995.80, E 1003247.33
INV ELEV=2496.00
 - 6.5 STA 23+54.96, 13.1' RT (VERT)
N 432990.23, E 1003509.13
INV ELEV=2499.80
STA 23+54.96, 13.1' RT (LOCATION OF TAP)
N 432990.23, E 1003509.13
INV ELEV=2499.80
STA 23+42.08, 19.9' RT (LOCATION OF ARV)
N 432981.90, E 1003496.71
ARV PER SD-330 1 EA
 - 6.6 STA 23+57.98, 12.8' RT (VERT)
N 432990.95, E 1003512.17
INV ELEV=2496.22
 - 6.7 STA 23+78.00, 11.4' RT (VERT)
N 432995.61, E 1003532.22
INV ELEV=2496.22
 - 6.8 STA 23+81.00, 11.2' RT (VERT)
N 432996.37, E 1003535.20
INV ELEV=2500.00
8" X 45" BEND 8 EA
 - 7 TYPE I PAVEMENT REPLACEMENT PER SD-650 583 SY

CITY OF TUCSON
TUCSON WATER

**LAS VISTAS NEIGHBORHOOD
MAIN REPLACEMENT PH II**

**PINAL VISTA 1
STA 20+10 TO STA 25+00**

DESIGNED BY: ROGELIO G-P	DATE: 10/24	SURVEY REQUEST NO: SR3545	SHEET 3 OF 17
DRAWN BY: K PENDERGAST	DATE: 10/24	SCALE: VERT: 1"=4' HORIZ: 1"=40'	PLAN NO: 1-016-2023
CHECKED BY: G WRIGHT	DATE: 10/24		

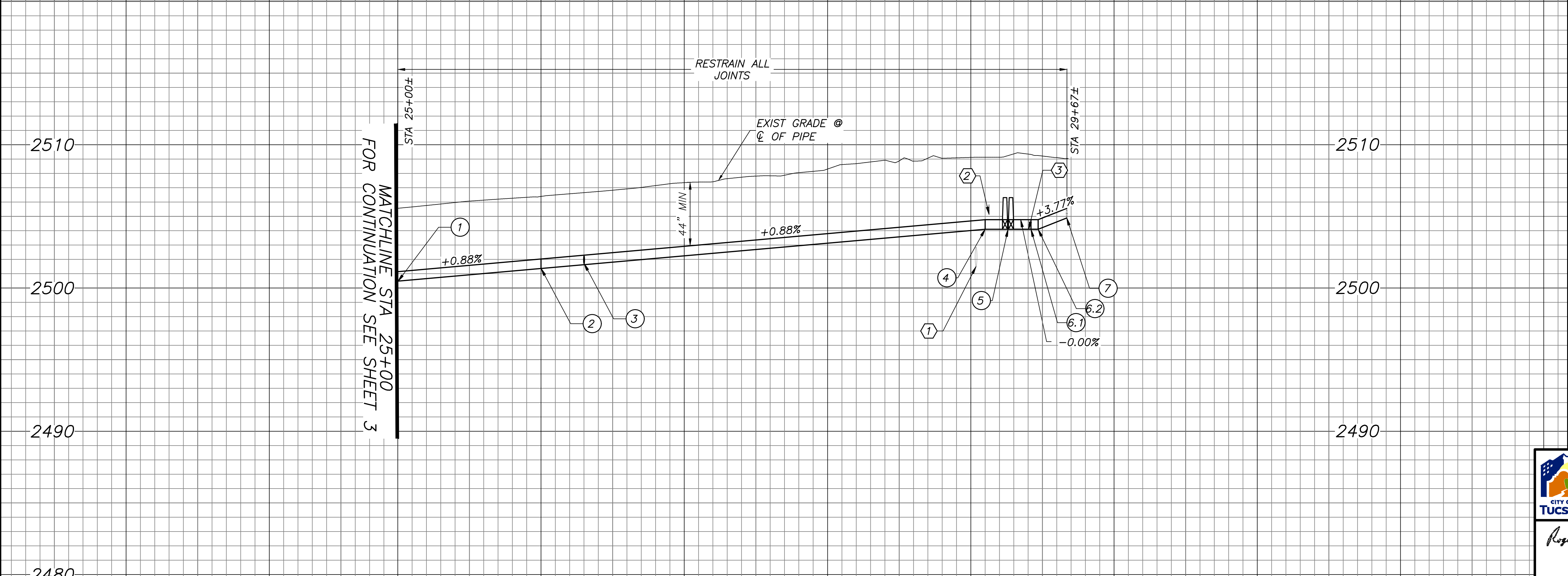
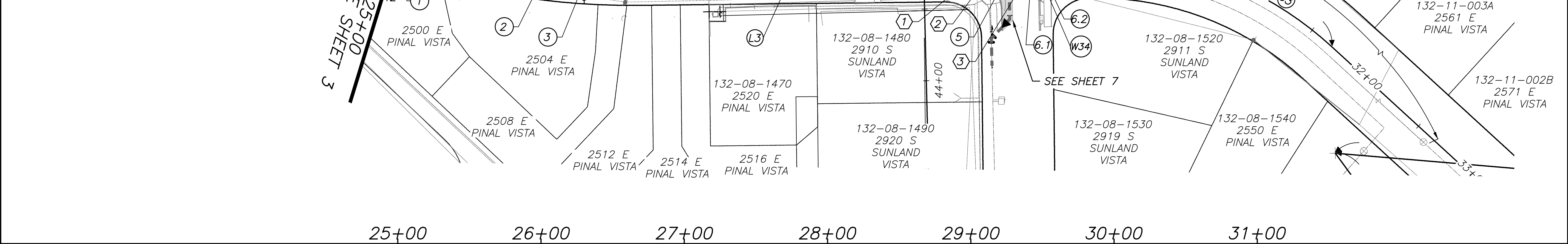
Professional Engineer
No. 42739
ROGELIO GAXIOLA JR.
State of Arizona



WATER LINE TABLE			
LINE #	BEARING	LENGTH	SIZE/MATL
W30	N62°01'42"E	102.33	8" DIP
W31	N45°19'07"E	30.93	8" DIP
W32	N45°19'07"E	296.63	8" DIP
W33	N45°21'40"E	16.01	8" DIP
W34	N01°39'29"W	7.31	8" DIP
W35	N45°08'54"E	20.00	8" DIP

CURVE TABLE			
CURVE #	RADIUS	LENGTH	DELTA
C2	465.60	381.43	46°56'18"
C3	242.83	185.91	43°52'00"

LINE TABLE		
LINE #	BEARING	LENGTH
L3	N45°12'13"E	198.15
L4	N45°12'07"E	115.00



REMOVE/ ABANDON NOTES	
1	STA 25+00.00, 9.1' RT TO STA 29+67.00 9.1' RT REMOVE & DISPOSE 10" CA AND SMALLER PIPE UNDER PAVEMENT TO NEAREST JOINT PER SD-350 467 ± LF
CONSTRUCTION NOTES	
1	STA 25+00.00, 7.4' RT N 433037.71, E 1003649.04 INV ELEV=2500.48 MATCHLINE 1 EA
2	STA 26+00.00, 14.07' RT (HORIZ) Δ=16°42'35" (LT) N 433085.70, E 1003739.41 INV ELEV=2501.36 8" X 1 1/4" BEND 1 EA
3	STA 26+30.00, 11.4' RT N 433107.42, E 1003761.43 INV ELEV=2501.71 FIRE HYDRANT ASSEMBLY PER SD-500 1 EA
4	STA 29+10.00, 11.3' RT N 433304.78, E 1003960.94 INV ELEV=2504.10 GRADE BREAK 1 EA
5	STA 29+26.00, 11.3' RT N 433316.05, E 1003972.30 INV ELEV=2504.10 8" X 8" CROSS 8" GATE VALVE, B&C (N, S, W) 1 EA
6.1	STA 29+42.00, 11.37' RT (HORIZ) Δ=47°01'08" (LT) N 433327.28, E 1003983.71 INV ELEV=2504.10 3 EA
6.2	STA 29+47.00, 6.03' RT (RO) Δ=46°48'22" (RT) N 433334.59, E 1003983.49 INV ELEV=2504.10 8" X 45" BEND 2 EA
7	END CONSTRUCTION STA 29+67.00, 6.0' RT N 433348.69, E 1003997.67 INV ELEV=2504.89 CONNECT TO EXISTING 8" CA (PN 081-1971) 1 EA
8	TYPE I PAVEMENT REPLACEMENT PER SD-650 391 SY

REFERENCE NOTES	
1	STA 29+03.62, 11.3' RT N 433300.30, E 1003956.40 INV ELEV=2501.51 EXIST 16" RECLAIMED WATER (PN 301-1996) 1 EA
2	STA 29+12.70, 11.3' RT N 433306.68, E 1003962.87 INV ELEV=2505.15 EXIST 6" CA WATER (PN 081-1971) 1 EA
3	STA 29+40.46, 11.4' RT N 433326.20, E 1003982.60 INV ELEV=2504.10 EXIST 8" CA WATER (PN 300-1996) 1 EA

CITY OF TUCSON
TUCSON WATER

Professional Engineer
42739
ROGELIO GAXIOLA JR.
Date Signed: 10/24/24
ARIZONA, U.S.A.

CITY OF TUCSON

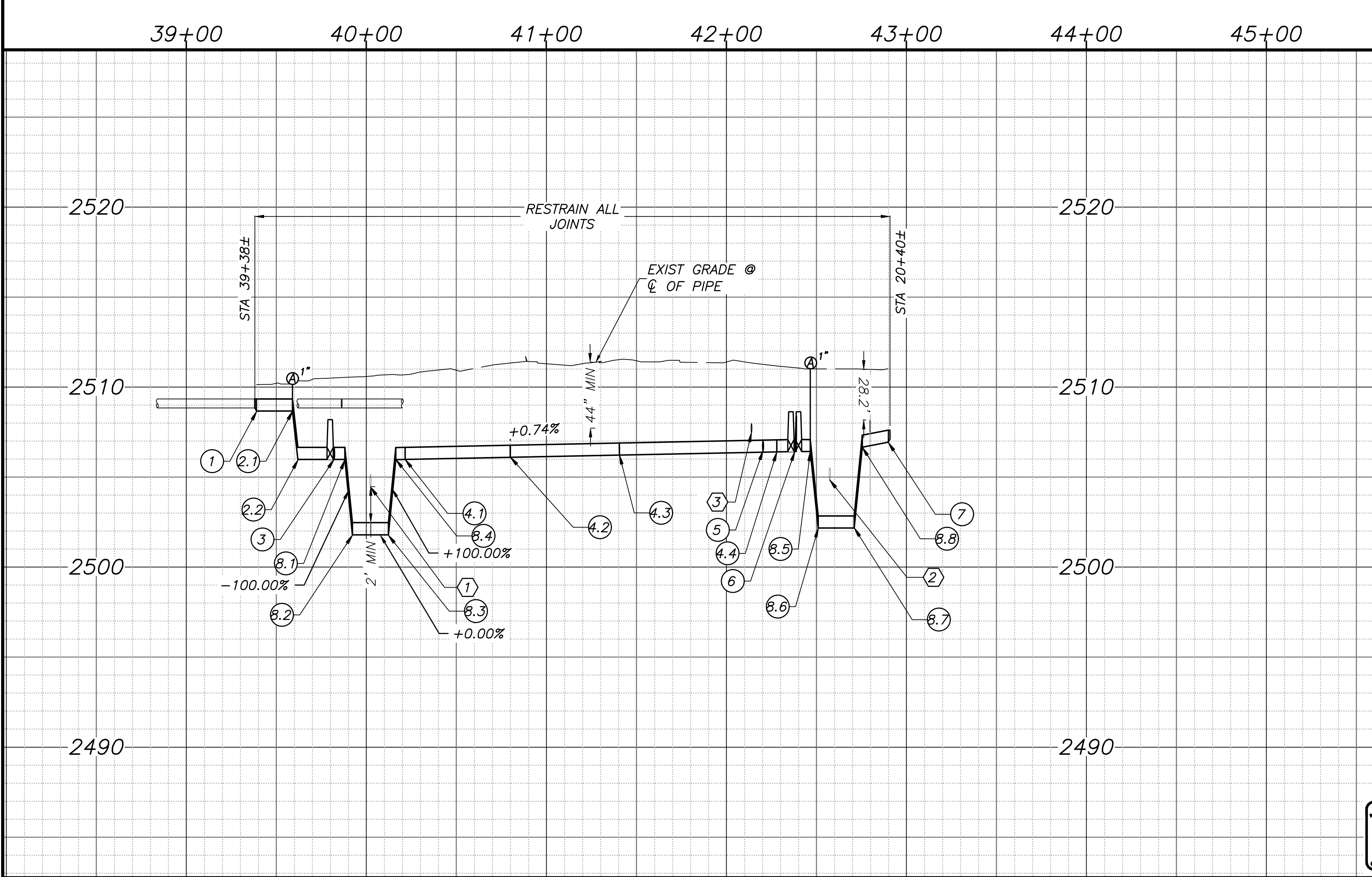
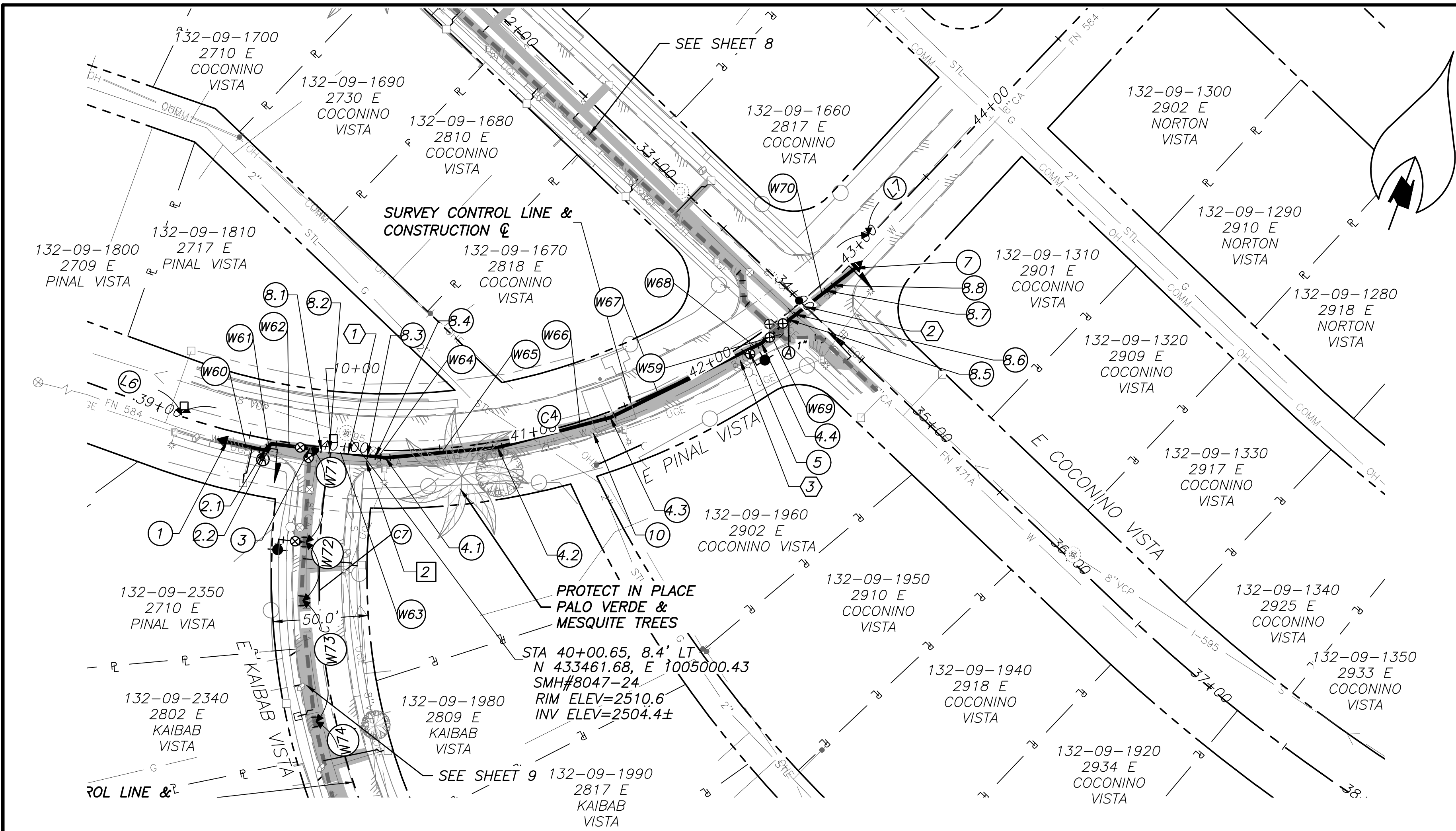
LAS VISTAS NEIGHBORHOOD
MAIN REPLACEMENT PH II

PINAL VISTA 2
STA 25+00 TO STA 29+67

DESIGNED BY: ROGELIO G-P	DATE 10/24	SURVEY REQUEST NO. SR3545	SHEET 4 of 17
DRAWN BY: K PENDERGAST	DATE 10/24	SCALE: VERT. 1"=4' HORIZ. 1"=40'	
CHECKED BY: G WRIGHT	DATE 10/24	PLAN NO. 1-016-2023	



NO.	BY	DATE	REVISION	APPR.	DATE



- 8.6) STA 42+51.08, 3.3' RT (VERT)
N 433600.45, E 1005200.12
INV ELEV=2502.17
- 8.7) STA 42+71.08, 4.1' RT (VERT)
N 433617.60, E 1005210.86
INV ELEV=2502.17
- 8.8) STA 42+75.53, 4.5' RT (VERT)
N 433621.42, E 1005213.26
INV ELEV=2506.66
8" X 45" BEND
- 9) TYPE 1 PAVEMENT REPLACEMENT PER SD-650

8 EA
304 SY

REFERENCE NOTES

- 1) STA 40+02.21, 2.0' RT
N 433452.15, E 1005004.83
8" VCP
BOTTOM OF SEWER=2504.47, TOP OF WATER=2502.47
REPLACE EXIST 8" VCP WITH 8" PVC PER SD-106,
WHERE SD-106 NOTE 2 "APPROVED EQUAL" PIPE
MATERIAL IS AWWA C900 DR25 OR D3034 DR26 PVC
PIPE. DUCTILE IRON IS NOT ACCEPTABLE FOR SEWER
PIPE REPLACEMENT.
- 2) STA 42+57.56, 3.4' RT
N 433606.00, E 1005203.59
8" VCP
TOP OF WATER=2504.84, BOTTOM OF SEWER=2505.51
REPLACE EXIST 8" VCP WITH 8" PVC PER SD-106,
WHERE SD-106 NOTE 2 "APPROVED EQUAL" PIPE
MATERIAL IS AWWA C900 DR25 OR D3034 DR26 PVC
PIPE. DUCTILE IRON IS NOT ACCEPTABLE FOR SEWER
PIPE REPLACEMENT.

1 EA

1 EA

WATER LINE TABLE

LINE #	BEARING	LENGTH	SIZE/MATL
W60	N82°34'32"E	20.35	8" DIP
W61	N27°52'02"E	5.02	8" DIP
W62	N77°00'10"E	20.09	8" DIP
W63	N77°00'10"E	28.58	8" DIP
W64	N77°00'10"E	5.26	8" DIP
W65	N64°48'51"E	58.98	8" DIP
W66	N55°05'27"E	61.05	8" DIP
W67	N43°49'00"E	80.32	8" DIP
W68	N43°36'08"E	7.86	8" DIP
W69	N29°38'07"E	18.75	8" DIP
W70	N32°05'38"E	44.16	8" DIP

CURVE TABLE

CURVE #	RADIUS	LENGTH	DELTA
C4	338.54	394.66	66°47'38"

LINE TABLE

LINE #	BEARING	LENGTH
L7	N23°41'31"E	290.00

REMOVE/ ABANDON NOTES

- 1) STA 39+39.00, 6' RT TO STA 42+90, 6' RT
REMOVE & DISPOSE OF EXIST 6" CA (FN 584)
- 2) STA 40+11.72, 6.0' RT
N 433451.20, E 1005015.20
INV ELEV=2508.84
EXIST TEE & VALVES (TO BE REMOVED AFTER NEW
KAIBAB VISTA CONNECTION BECOMES ACTIVE)
- 3) STA 42+13.96, 6.0' RT
REMOVE & DISPOSE EXIST FIRE HYDRANT
ASSEMBLY & APPURTENANCES

351± LF

1 EA

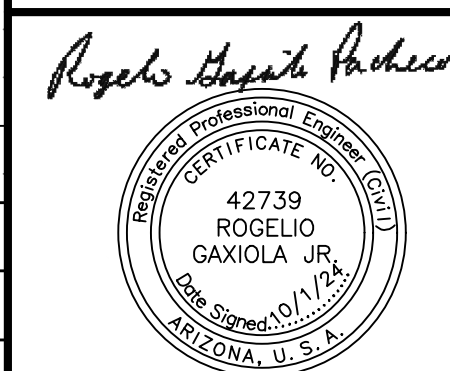
CONSTRUCTION NOTES

- BEGIN CONSTRUCTION
- 1) STA 39+39.00, 6.0' RT
N 433435.99, E 1004942.92
INV ELEV=2508.67
8" X 6" REDUCER
CONNECT TO EXIST 6" CA WATER (FN 471A)
- 2.1) STA 39+59.00, 6.00' RT (RO)
Δ=54°42'30" (LT)
N 433438.62, E 1004963.10
INV ELEV=2508.67
8" x 45" BEND
STA 39+59.00, 6.0' RT (LOCATION OF TAP)
N 433438.62, E 1004963.10
STA 39+59.00, 11.0' RT (LOCATION OF ARV)
N 433433.68, E 1004963.89
ARV PER SD-330
- 2.2) STA 39+62.00, 2.00' RT (RO)
Δ=49°08'09" (RT)
N 433443.06, E 1004965.44
INV ELEV=2505.98
8" x 45" BEND
- 3) STA 39+81.98, 1.4' RT
N 433447.57, E 1004985.02
INV ELEV=2505.98
8" x 8" TEE
8" GATE VALVE B&C (W, S)
- 4.1) STA 40+21.55, 3.75' RT (HORIZ)
Δ=12°11'19" (LT)
N 433456.55, E 1005023.91
INV ELEV=2505.99
- 4.2) STA 40+80.00, 3.20' RT (HORIZ)
Δ=9°43'24" (LT)
N 433481.65, E 1005077.28
INV ELEV=2506.10
- 4.3) STA 41+40.58, 3.00' RT (HORIZ)
Δ=11°16'27" (LT)
N 433516.59, E 1005127.35
INV ELEV=2506.22
- 4.4) STA 42+28.00, 4.62' RT (HORIZ)
Δ=13°58'01" (LT)
N 433580.23, E 1005188.37
INV ELEV=2506.40
8" x 11 1/4" BEND
- 5) STA 42+20.30, 3.6' RT
N 433574.54, E 1005182.95
INV ELEV=2506.47
FIRE HYDRANT ASSEMBLY PER SD-500
- 6) STA 42+46.61, 3.3' RT
N 433596.64, E 1005197.71
INV ELEV=2506.42
8" x 8" CROSS
8" GATE VALVE, B&C (N,S,W)
END CONSTRUCTION
- 7) STA 42+90.00, 6.0' RT
N 433633.94, E 1005221.11
INV ELEV=2506.94
8" x 6" REDUCER
CONNECT TO EXIST 6" CA (FN 584)
- 8.1) STA 39+81.72, 28.9' RT (VERT)
N 433420.70, E 1004990.93
INV ELEV=2503.16
- 8.2) STA 39+92.26, 1.5' RT (VERT)
N 433449.96, E 1004995.05
INV ELEV=2501.79
- 8.3) STA 40+20.14, 19.9' LT (VERT)
N 433478.41, E 1005014.67
INV ELEV=2505.97
- 8.4) STA 40+24.59, 19.4' LT (VERT)
N 433479.35, E 1005018.78
INV ELEV=2501.79
- 8.5) STA 42+46.61, 3.3' RT (VERT)
N 433596.63, E 1005197.71
INV ELEV=2506.42
STA 42+46.61, 3.3' RT (LOCATION OF TAP)
N 433596.63, E 1005197.71
STA 42+36.29, 17.0' RT (LOCATION OF ARV)
N 433580.25, E 1005203.39
ARV PER SD-330
- 8.6) STA 42+51.08, 3.3' RT (VERT)
N 433600.45, E 1005200.12
INV ELEV=2502.17

1 EA



LAS VISTAS NEIGHBORHOOD
MAIN REPLACEMENT PH II

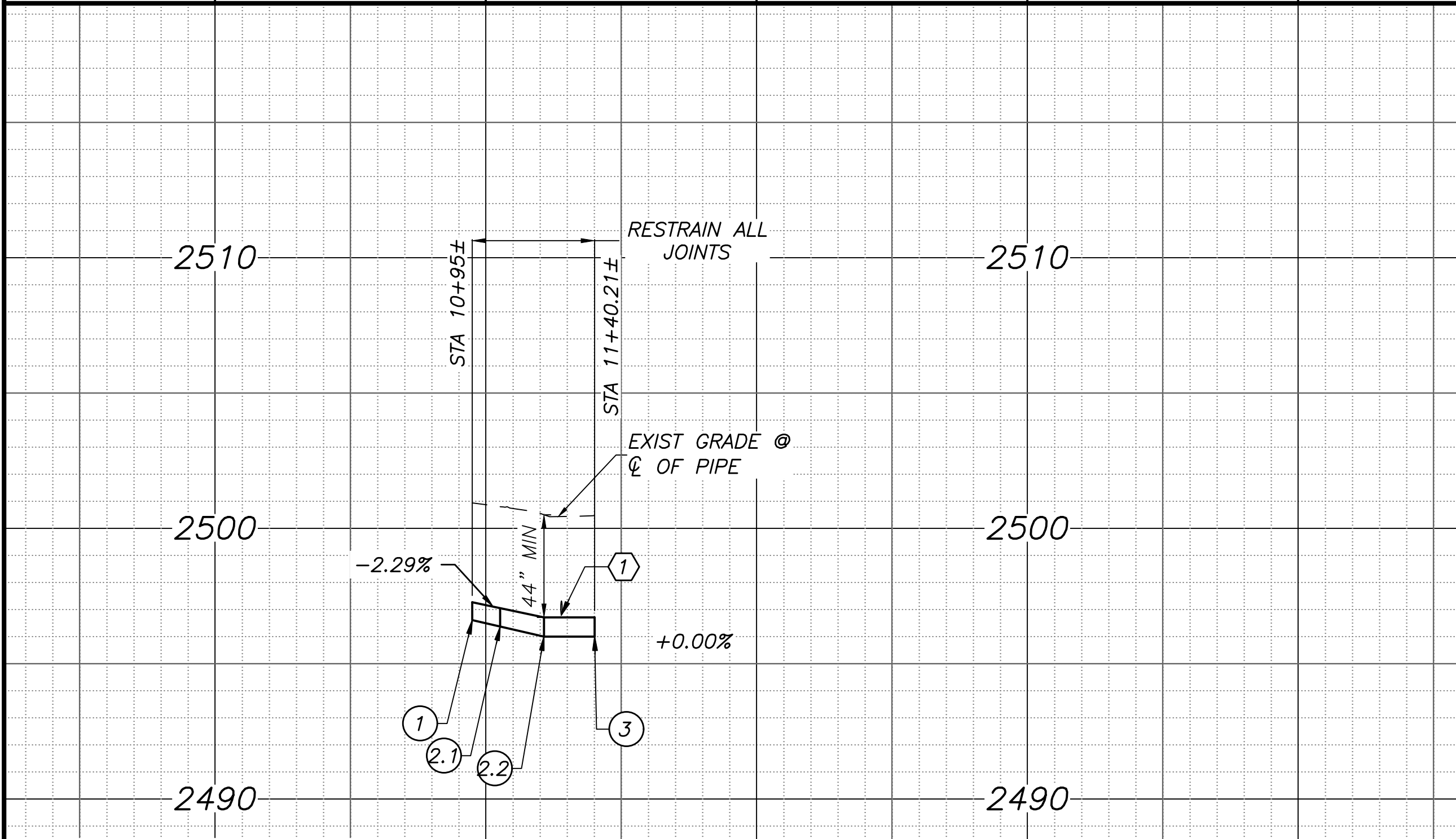
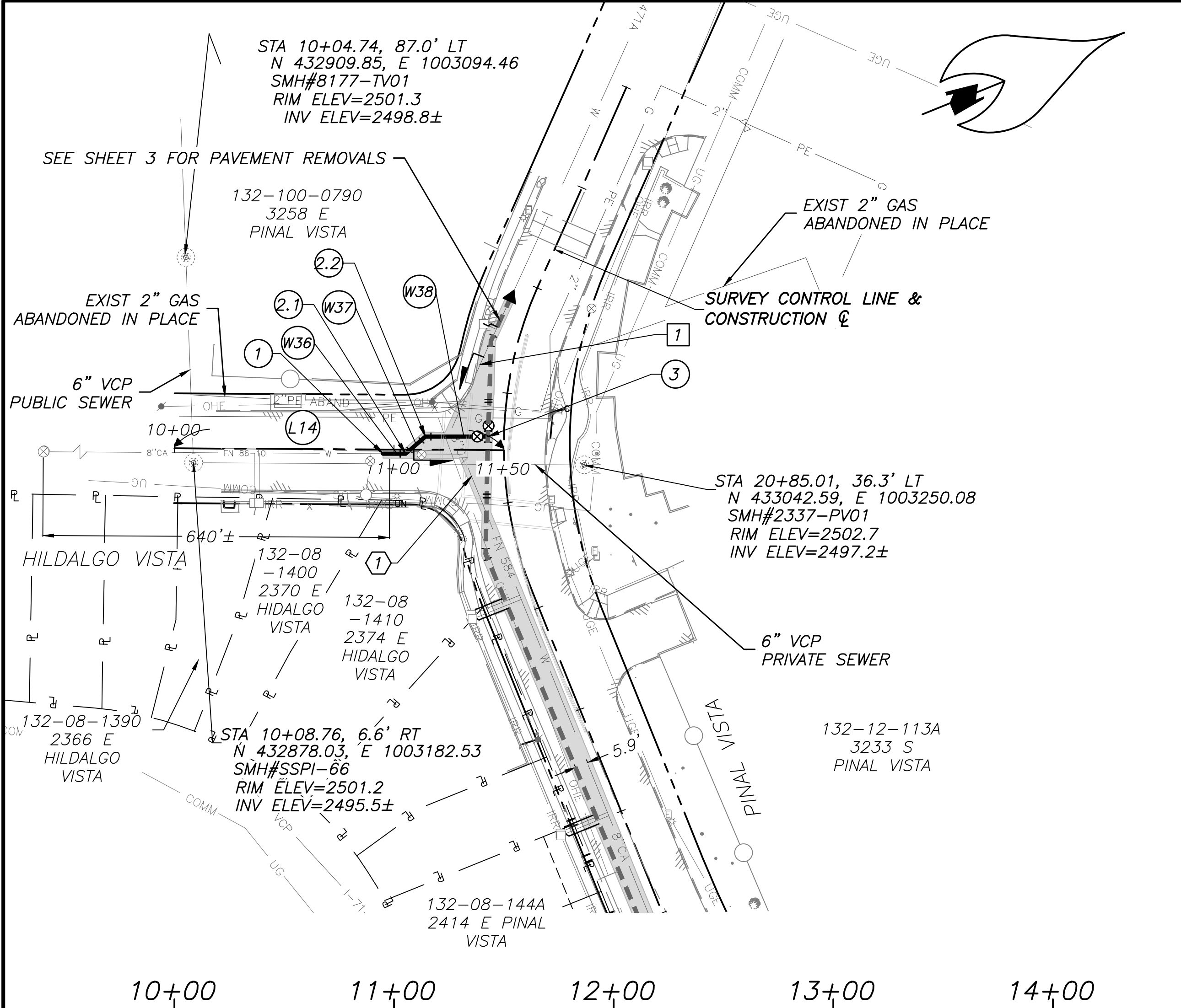


PINAL VISTA 3
STA 39+39 TO STA 42+90

DESIGNED BY: ROGELIO G-P	DATE: 10/24	SURVEY REQUEST NO: SR3545	SHEET 5	OF 17
DRAWN BY: K PENDERGAST	DATE: 10/24	SCALE: VERT: 1"=4' HORIZ: 1"=40'	PLAN NO.:	
CHECKED BY: G. WRIGHT	DATE: 10/24			



NO.	BY	DATE	REVISION	APPR.	DATE



LINE TABLE		
LINE #	BEARING	LENGTH
L14	N22°19'22\"E	150.00

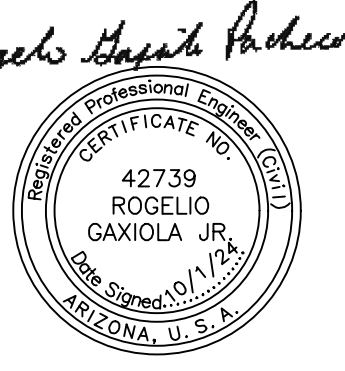
WATER LINE TABLE			
LINE #	BEARING	LENGTH	SIZE/MATL
W36	N22°19'22\"E	10.31	8\" DIP
W37	N19°10'42\"W	11.94	8\" DIP
W38	N22°05'35\"E	28.43	8\" DIP

E HILDALGO VISTA			
REMOVE/ ABANDON NOTES			
1	STA 10+95.00, 2.3' RT TO STA 11+40.21± 10.60' LT	46± LF	
REMOVE & DISPOSE 10\" CA AND SMALLER PIPE UNDER PAVEMENT TO NEAREST JOINT PER SD-350			
CONSTRUCTION NOTES			
1	BEGIN CONSTRUCTION STA 10+95.00, 1.9' RT N 432959.57, E 1003211.01 INV ELEV=2496.61 CONNECT TO EXIST 8\" PVC (FN 584)	1 EA	
2.1	STA 11+05.31, 1.92' RT (HORIZ) Δ=41°30'04\" (LT) N 432969.11, E 1003214.92 INV ELEV=2496.37		
2.2	STA 11+14.25, 5.99' LT (HORIZ) Δ=41°16'17\" (RT) N 432980.39, E 1003210.99 INV ELEV=2496.00 8\" X 45\" BEND	2 EA	
3	END CONSTRUCTION STA 11+42.68, 6.1' LT N 433006.73, E 1003221.69 INV ELEV=2496.00 CONNECT TO 8\" GATE VALVE SEE SHEET 3	1 EA	
REFERENCE NOTES			
1	STA 11+27.92, 6.0' LT N 432993.06, E 1003216.13 INV ELEV=2496.80± EXIST 6\" CA (FN 471A)	1 EA	



CITY OF TUCSON

LAS VISTAS NEIGHBORHOOD
MAIN REPLACEMENT PH II

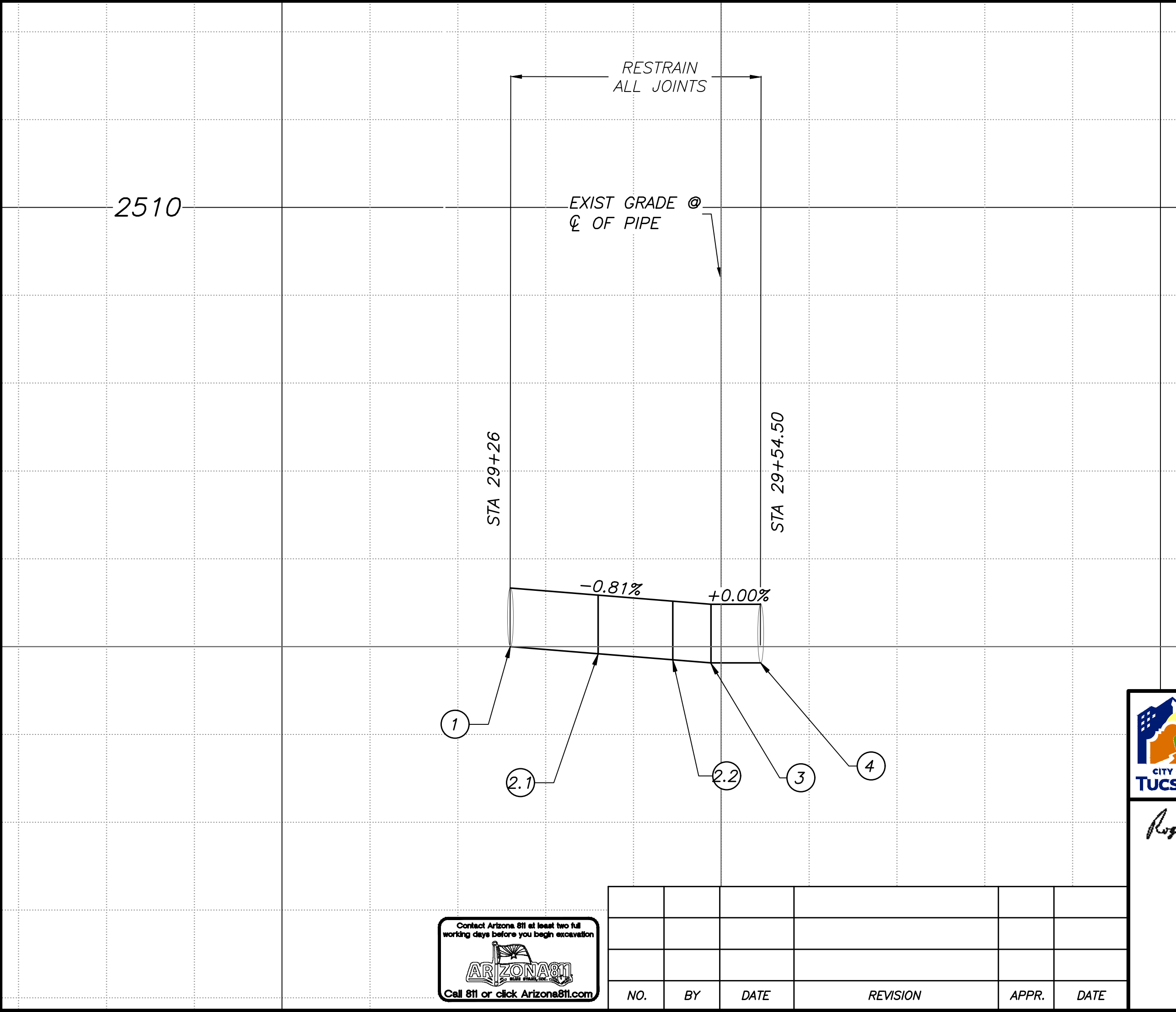
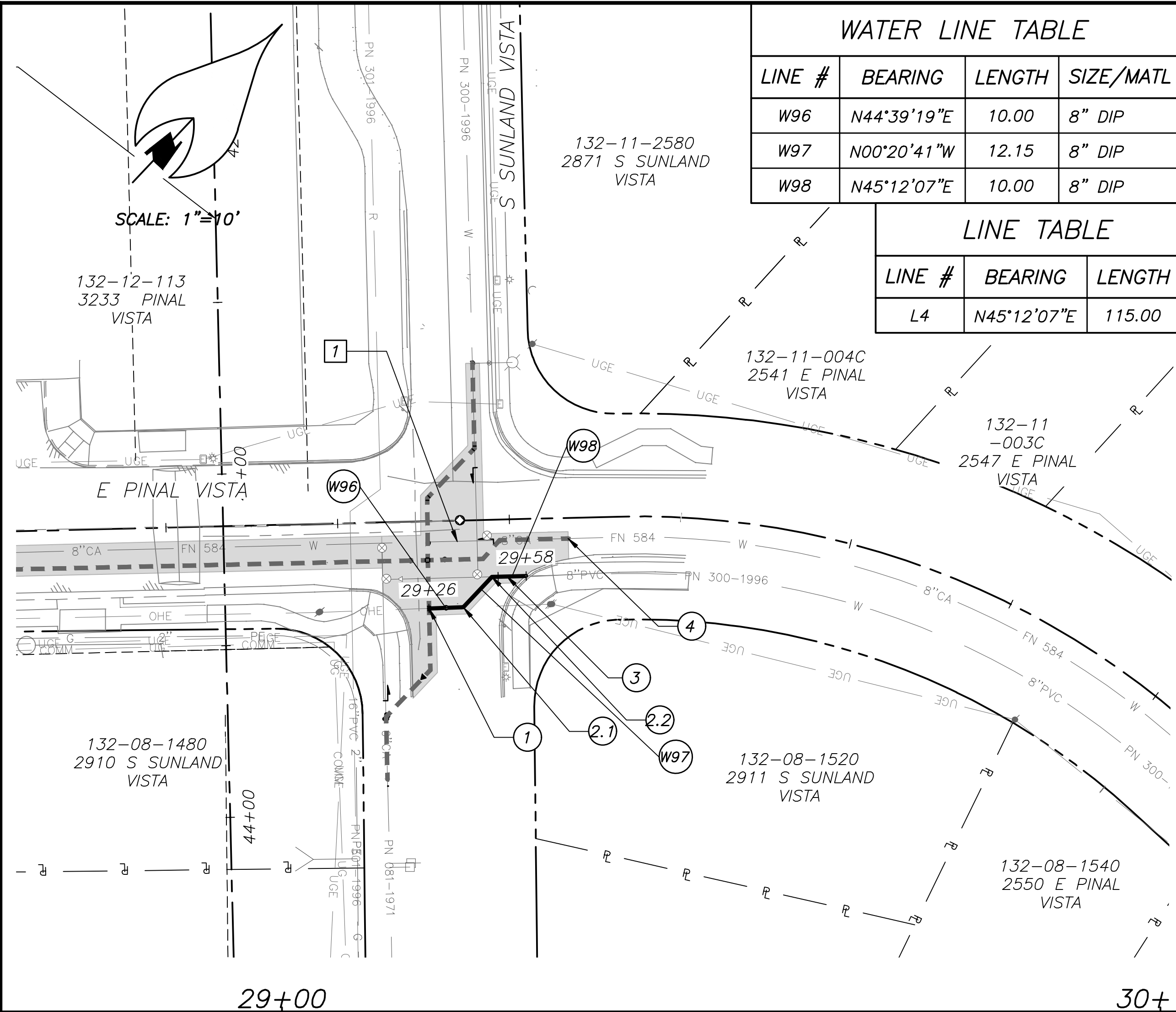
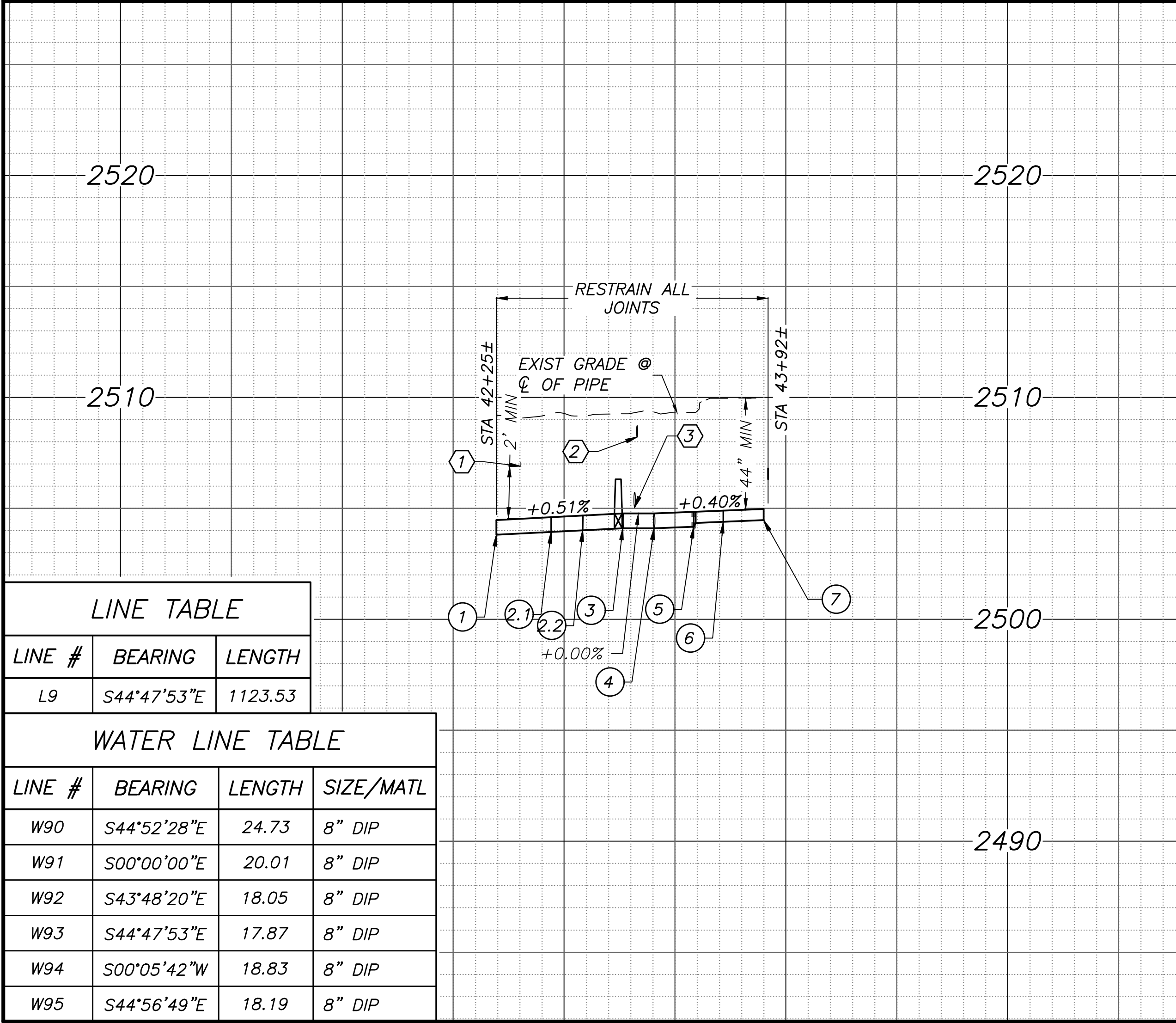
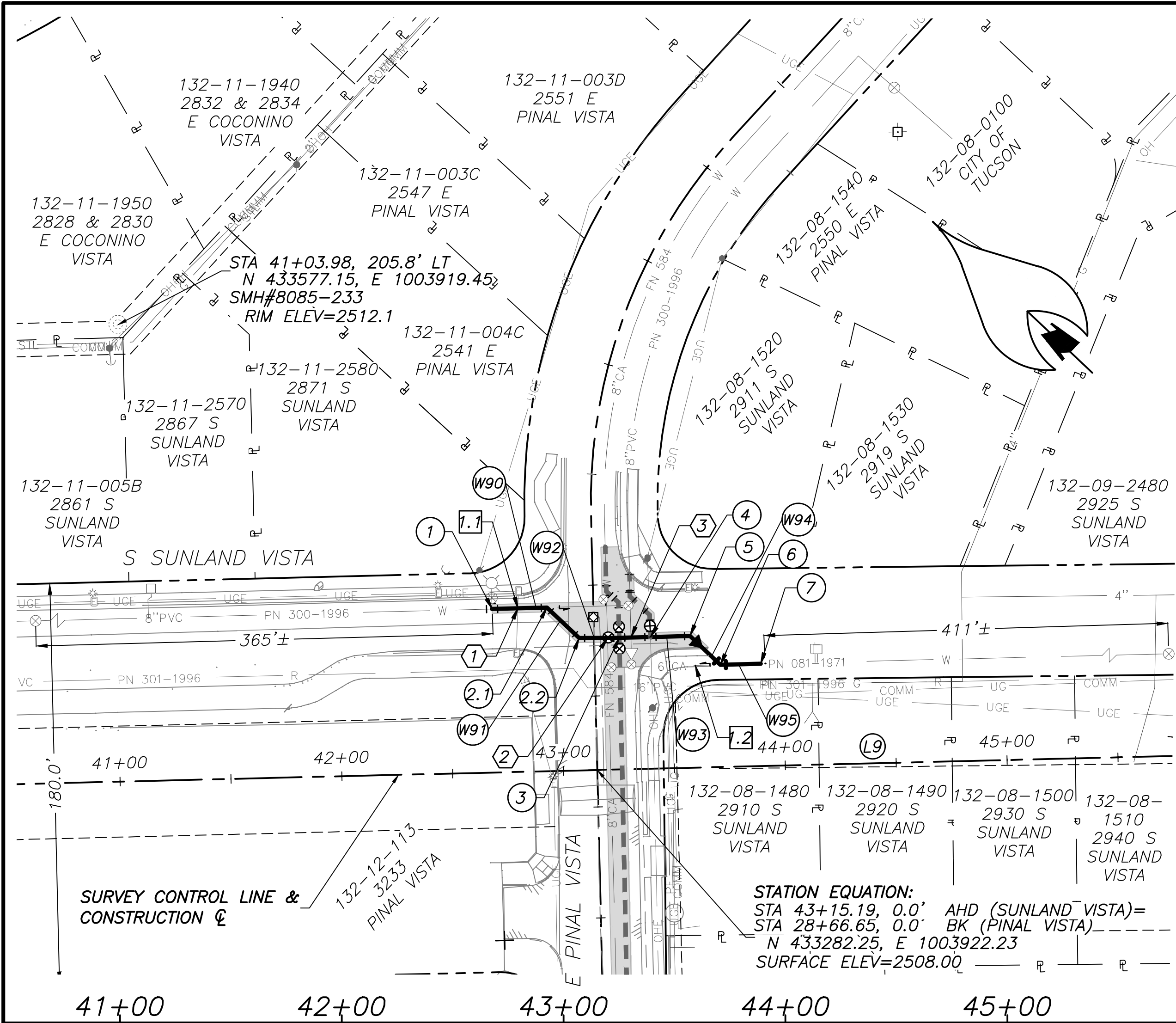


HILDALGO VISTA
STA 10+95 TO STA 11+42.68

DESIGNED BY: ROGELIO G-P	DATE: 10/24	SURVEY REQUEST NO: SR3545	SHEET 6	OF 17
DRAWN BY: K PENDERGAST	DATE: 10/24	SCALE: VERT: 1\"=4' HORIZ: 1\"=40'	PLAN NO: 1-016-2023	
CHECKED BY: G. WRIGHT	DATE: 10/24			



NO.	BY	DATE	REVISION	APPR.	DATE



WATER LINE TABLE			
LINE #	BEARING	LENGTH	SIZE/MATL
W96	N44°39'19"E	10.00	8" DIP
W97	N00°20'41"W	12.15	8" DIP
W98	N45°12'07"E	10.00	8" DIP

LINE TABLE		
LINE #	BEARING	LENGTH
L4	N45°12'07"E	115.00

REMOVE/ ABANDON NOTES

1.1

STA 42+69.53, 73.72' LT TO STA 43+33.19 73.6' LT
REMOVE & DISPOSE 10" CA AND SMALLER PIPE UNDER
PAVEMENT TO NEAREST JOINT PER SD-350

64± LF

1.2

STA 43+21.25, 46.1' LT TO STA 43+91.81, 46.1' LT
REMOVE & DISPOSE 10" CA AND SMALLER PIPE
UNDER PAVEMENT TO NEAREST JOINT PER SD-350

72± LF

CONSTRUCTION NOTES

1

BEGIN CONSTRUCTION
STA 42+69.53, 73.7' LT
N 433366.58, E 1003942.36
INV ELEV=2503.81
CONNECT TO EXIST FIRE HYDRANT (PN 103-2019)

1 EA

2.1

STA 42+94.27, 73.75' LT (HORIZ)
Δ=44°52'28" (RT)
N 433349.06, E 1003959.82
INV ELEV=2503.94

2 EA

2.2

STA 43+08.46, 59.65' LT (HORIZ)
Δ=43°48'20" (LT)
N 433329.06, E 1003959.82
INV ELEV=2504.02

2 EA

3

STA 43+26.49, 59.4' LT
N 433316.05, E 1003972.30
INV ELEV=2504.10
CONNECT TO CROSS

1 EA

4

STA 43+40.59, 59.4' LT
N 433306.05, E 1003982.24
INV ELEV=2504.10

1 EA

5

8" TEE
8" GATE VALVE B&C (E)
STA 43+58.47, 59.34' LT (HORIZ)
Δ=44°53'35" (RT)
N 433293.35, E 1003994.83
INV ELEV=2504.17

1 EA

6

8" X 45° BEND
8" X 6" REDUCER
STA 43+71.81, 46.05' LT (HORIZ)
Δ=45°02'30" (LT)
N 433274.53, E 1003994.80
INV ELEV=2504.39

1 EA

7

END CONSTRUCTION
STA 43+90.00, 46.1' LT
N 433261.65, E 1004007.65
INV ELEV=2504.47
CONNECT TO EXIST 6" CA (PN 081-1971)

1 EA

REFERENCE NOTES

1

STA 42+81.18, 73.7' LT
N 433358.34, E 1003950.58
INV ELEV=2506.90
EXISTING UNDERGROUND ELECTRIC

1 EA

2

STA 43+21.24, 59.4' LT
N 433319.83, E 1003968.66
INV ELEV=2508.21
EXISTING 6" CA (FN 584)

1 EA

3

STA 43+31.81, 59.3' LT
N 433312.27, E 1003976.04
INV ELEV=2505.05
EXISTING 8" PVC (PN 300-1996)

1 EA

REMOVE/ ABANDON NOTES

1

STA 29+12.70, 16.62' RT TO STA 29+54.50, 16.53' RT 42± LF
REMOVE & DISPOSE OF EXIST 8" PVC (PN 300-1996)

CONSTRUCTION NOTES

1

BEGIN CONSTRUCTION
STA 29+26.00, 25.4' RT
N 433306.05, E 1003982.24
INV ELEV=2505.00
CONNECT TO EXIST 8" PVC (PN 300-1996)

1 EA

2.1

STA 29+35.99, 25.29' RT (HORIZ)
Δ=45°00'00" (LT)
N 433313.16, E 1003989.25
INV ELEV=2504.92

2 EA

2.2

STA 29+44.50, 16.62' RT (HORIZ)
Δ=45°32'48" (RT)
N 433325.31, E 1003989.18
INV ELEV=2504.85

2 EA

3

STA 29+48.88, 16.6' RT
N 433328.40, E 1003992.29
INV ELEV=2504.81

1 EA

4

GRADE BREAK
END CONSTRUCTION
STA 29+54.50, 16.6' RT
N 433332.36, E 1003996.27
INV ELEV=2504.81
CONNECT TO EXIST 8" PVC (PN 300-1996)

1 EA

CITY OF TUCSON

TUCSON WATER

Rogelio Gaxiola Jr.

Professional Engineer

42739

GAXIOLA JR.

10/24

ARIZONA, U.S.A.

CITY OF TUCSON

LAS VISTAS NEIGHBORHOOD

MAIN REPLACEMENT PH II

SUNLAND VISTA

STA 42+69.53 TO STA 43+92

STA 29+26 TO STA 29+54.50

DESIGNED BY: ROGELIO G-P

DATE: 10/24

DRAWN BY: K PENDERGAST

DATE: 10/24

CHECKED BY: G. WRIGHT

DATE: 10/24

SURVEY REQUEST NO: SR3545

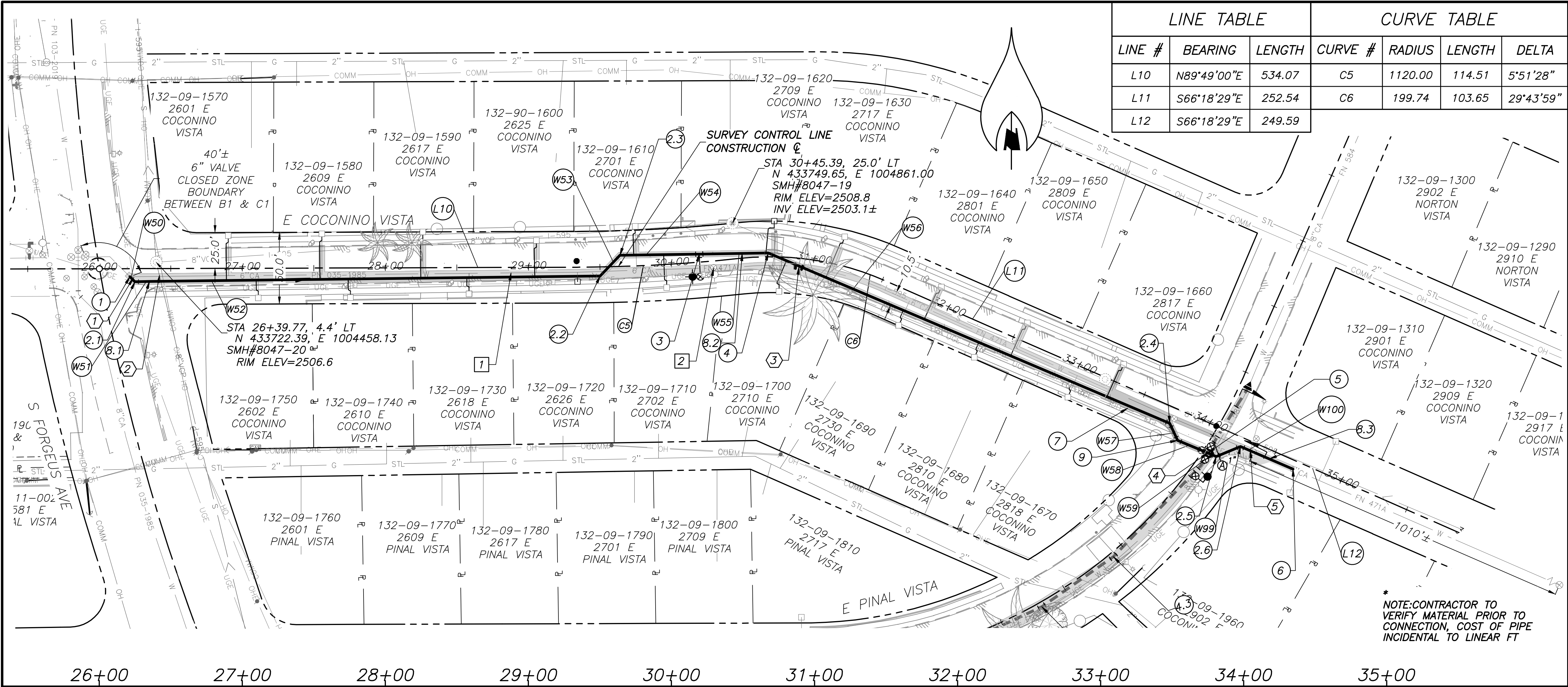
SCALE: 1"=4'

VERT: 1"=4'

HORIZ: 1"=40'

SHEET 7 OF 17

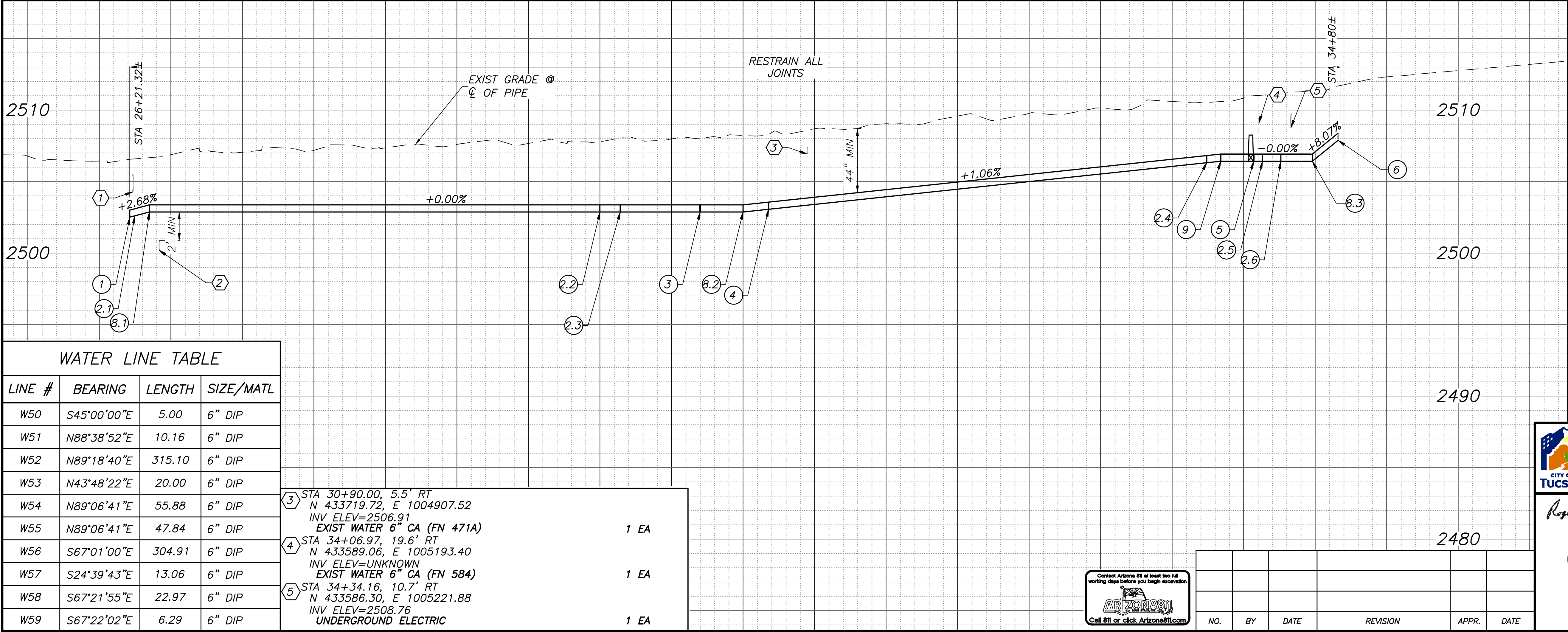
1-016-2023



LINE TABLE			CURVE TABLE			
LINE #	BEARING	LENGTH	CURVE #	RADIUS	LENGTH	DELTA
L10	N89°49'00"E	534.07	C5	1120.00	114.51	5°51'28"
L11	S66°18'29"E	252.54	C6	199.74	103.65	29°43'59"
L12	S66°18'29"E	249.59				

REMOVE/ ABANDON NOTES		
1	STA 26+22.30, 5.6' RT TO STA 34+81.21, 6.1' RT REMOVE & DISPOSE 10" CA AND SMALLER PIPE UNDER PAVEMENT TO NEAREST JOINT PER SD-350	860± LF
2	STA 30+29.14, 4.5' RT REMOVE & DISPOSE EXIST FIRE HYDRANT ASSEMBLY & APPURTENANCES	1 EA

CONSTRUCTION NOTES		
1	BEGIN CONSTRUCTION STA 26+21.32, 5.6' RT N 433712.29, E 1004439.71 INV ELEV=2502.50 CONNECT TO EXISTING 6" PVC (PN 103-2019)	1 EA
2.1	STA 26+24.84, 9.16' RT (HORIZ) Δ=46°21'08" (LT) N 433708.76, E 1004443.25 INV ELEV=2502.60	
2.2	STA 29+50.00, 6.28' RT (HORIZ) Δ=45°30'18" (LT) N 433712.79, E 1004768.48 INV ELEV=2502.87	1 EA
2.3	STA 29+64.19, 7.82' LT (HORIZ) Δ=45°18'19" (RT) N 433727.22, E 1004782.33 INV ELEV=2502.87	
2.4	STA 33+74.24, 11.37' RT (HORIZ) Δ=42°21'17" (RT) N 433609.77, E 1005166.74 INV ELEV=2506.32	
2.5	STA 34+13.26, 19.51' RT (HORIZ) Δ=45°00'00" (LT) N 433586.64, E 1005199.20 INV ELEV=2506.42	
2.6	STA 34+26.00, 6.28' RT (HORIZ) Δ=45°40'11" (RT) N 433593.63, E 1005216.19 INV ELEV=2506.42 6" x 45° BEND	6 EA
3	STA 30+20.00, 5.6' LT N 433728.05, E 1004837.83 INV ELEV=2502.87 FIRE HYDRANT ASSEMBLY PER SD-500	1 EA
4	STA 30+67.94, 2.61' LT (HORIZ) Δ=23°52'19" (RT) N 433728.83, E 1004886.04 INV ELEV=2503.06 6" x 22 1/2° BEND	1 EA
5	STA 34+07.00, 19.6' RT N 433589.07, E 1005193.43 INV ELEV=2506.42 6"X6" CROSS 6" GATE VALVE, B&C (N, S, W)	1 EA 3 EA
6	END CONSTRUCTION STA 34+66.00, 6.0' RT N 433577.81, E 1005252.92 INV ELEV=2507.87 CONNECT TO EXISTING 6" DIP (WO 2935)	
7	TYPE I PAVEMENT REPLACEMENT PER SD-650	805 SY
8.1	STA 26+35.00, 8.9' RT N 433709.00, E 1004453.40 INV ELEV=2502.87	
8.2	STA 30+50.00, 3.3' LT N 433728.54, E 1004867.82 INV ELEV=2502.87	
8.3	STA 34+48.00, 6.1' RT N 433584.96, E 1005236.40 INV ELEV=2506.42 GRADE BREAK	3 EA
9	STA 33+84.00, 20.05' RT (RO) Δ=42°42'12" (LT) N 433597.90, E 1005172.19 INV ELEV=2506.42	1 EA

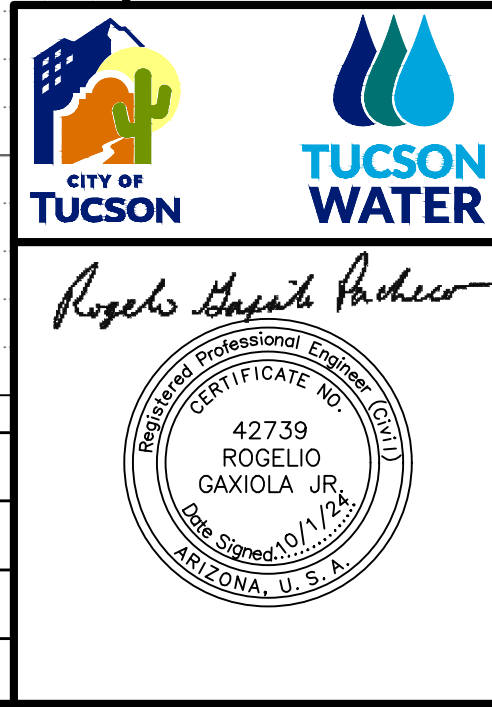


WATER LINE TABLE			
LINE #	BEARING	LENGTH	SIZE/MATL
W50	S45°00'00"E	5.00	6" DIP
W51	N88°38'52"E	10.16	6" DIP
W52	N89°18'40"E	315.10	6" DIP
W53	N43°48'22"E	20.00	6" DIP
W54	N89°06'41"E	55.88	6" DIP
W55	N89°06'41"E	47.84	6" DIP
W56	S67°01'00"E	304.91	6" DIP
W57	S24°39'43"E	13.06	6" DIP
W58	S67°21'55"E	22.97	6" DIP
W59	S67°22'02"E	6.29	6" DIP

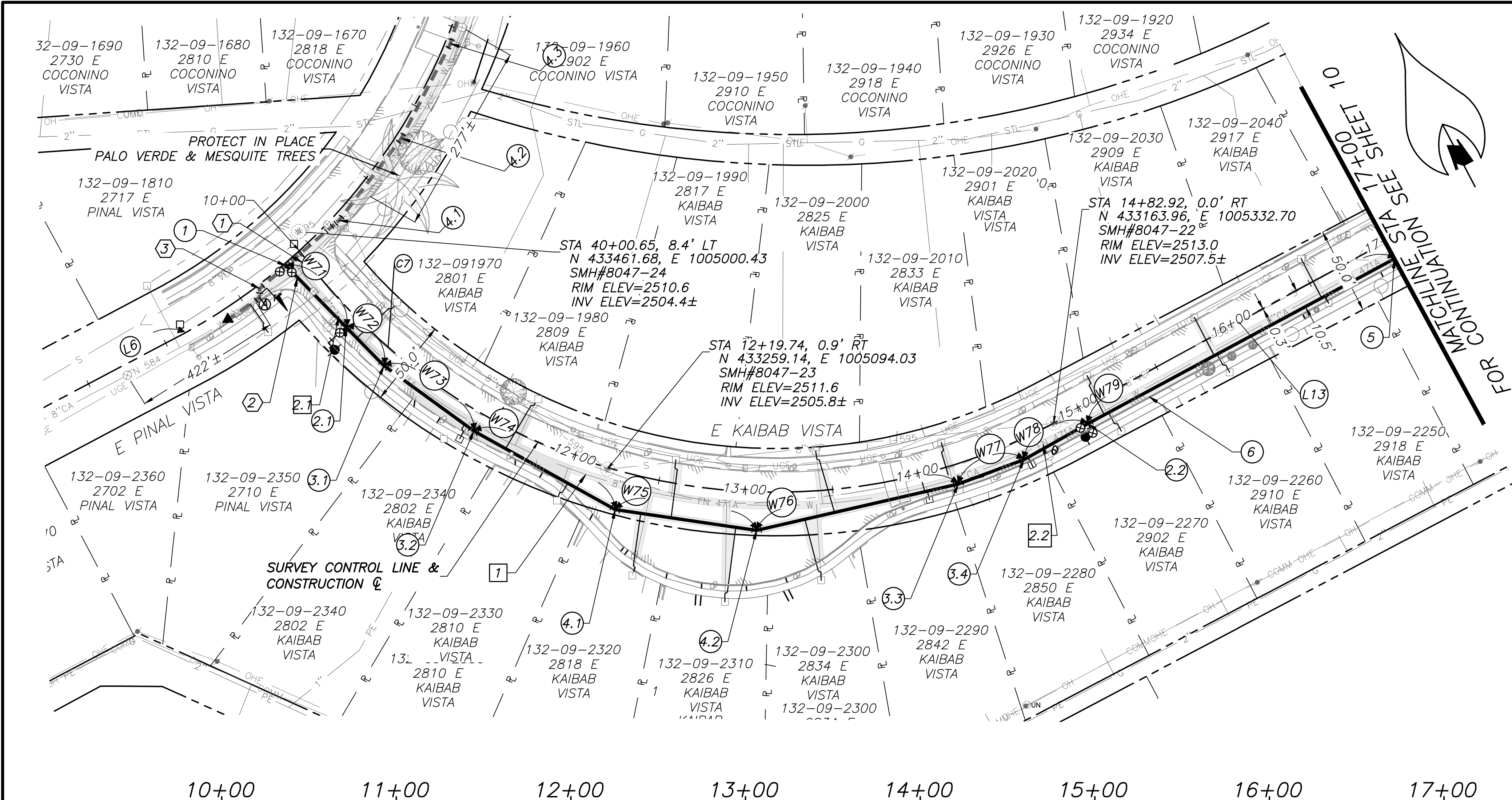
3	STA 30+90.00, 5.5' RT N 433719.72, E 1004907.52 INV ELEV=2506.91 EXIST WATER 6" CA (FN 471A)	1 EA
4	STA 34+06.97, 19.6' RT N 433589.06, E 1005193.40 INV ELEV=UNKNOWN EXIST WATER 6" CA (FN 584)	1 EA
5	STA 34+34.16, 10.7' RT N 433586.30, E 1005221.88 INV ELEV=2508.76 UNDERGROUND ELECTRIC	1 EA



NO.	BY	DATE	REVISION	APPR.	DATE



LAS VISTAS NEIGHBORHOOD MAIN REPLACEMENT PH II			
COCONINO VISTA STA 26+18.78 TO STA 34+68			
DESIGNED BY: ROGELIO G-P	DATE: 10/24	SURVEY REQUEST NO: SR3545	SHEET 8 OF 17
DRAWN BY: K PENDERGAST	DATE: 10/24	SCALE: VERT: 1"=4' HORIZ: 1"=40'	PLAN NO: 1-016-2023
CHECKED BY: G. WRIGHT	DATE: 10/24		

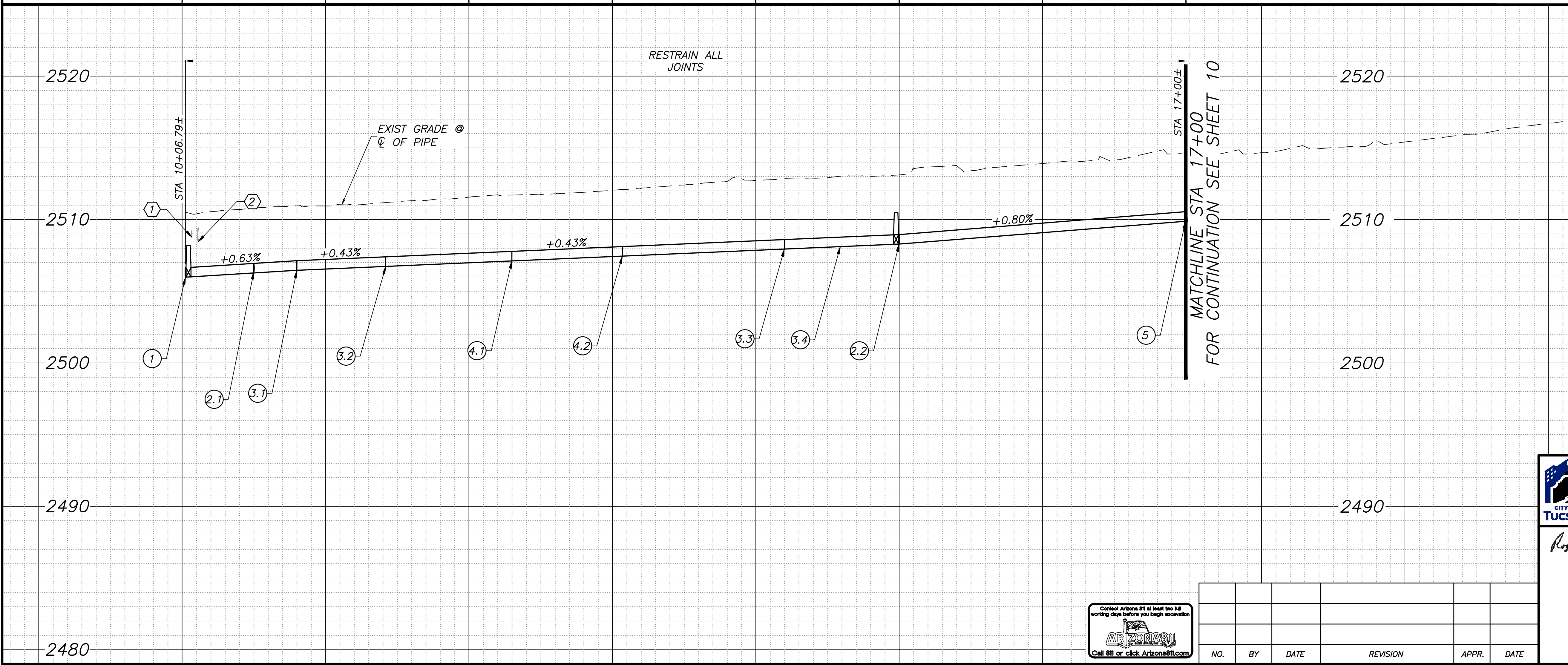


WATER LINE TABLE			
LINE #	BEARING	LENGTH	SIZE/MATL
W71	S16°45'39"E	49.04	8" DIP
W72	S16°48'50"E	30.81	8" DIP
W73	S26°20'06"E	63.80	8" DIP
W74	S33°21'36"E	92.65	8" DIP
W75	S54°00'57"E	81.81	8" DIP
W76	S75°16'07"E	118.47	8" DIP
W77	S82°52'13"E	40.20	8" DIP
W78	N88°20'14"E	41.98	8" DIP
W79	N89°20'58"E	199.96	8" DIP

CURVE TABLE			
CURVE #	RADIUS	LENGTH	DELTA
C7	339.06	480.41	81°10'48"

LINE TABLE		
LINE #	BEARING	LENGTH
L6	N89°49'30"E	419.28
L13	N89°00'31"E	1000.00

REMOVE/ ABANDON NOTES		
1	STA 10+06.80, 6.6' RT TO STA 17+00, 8.3' RT REMOVE & DISPOSE 10" CA AND SMALLER PIPE UNDER PAVEMENT TO NEAREST JOINT PER SD-350	694± LF
2.1	STA 10+35.56, 4.7' RT N 433415.69, E 1004998.37	
2.2	STA 14+72.01, 0.2' RT N 433163.89, E 1005321.78 REMOVE & DISPOSE EXIST FIRE HYDRANT ASSEMBLY & APPURTENANCES	2 EA
CONSTRUCTION NOTES		
1	BEGIN CONSTRUCTION STA 10+02.37, 11.2' RT N 433447.57, E 1004985.02 INV ELEV=2505.98 CONNECT TO EXISTING 8" GATE VALVE	1 EA
2.1	STA 10+50.00, 8.1' RT N 433400.61, E 1004999.16 INV ELEV=2506.36	
2.2	STA 15+00.00, 9.7' RT N 433154.60, E 1005349.94 INV ELEV=2508.28 FIRE HYDRANT ASSEMBLY PER SD-500	2 EA
3.1	STA 10+80.00, 9.63' RT (HORIZ) Δ=9°31'16" (LT) N 433371.12, E 1005008.07 INV ELEV=2506.46	
3.2	STA 11+42.00, 10.89' RT (HORIZ) Δ=7°01'30" (LT) N 433313.94, E 1005036.37 INV ELEV=2506.73	
3.3	STA 14+20.00, 11.24' RT (HORIZ) Δ=7°36'06" (LT) N 433158.37, E 1005268.09 INV ELEV=2507.94	
3.4	STA 14+58.93, 11.31' RT (HORIZ) Δ=8°47'34" (LT) N 433153.38, E 1005307.98 INV ELEV=2508.11 8" X 11 1/4" BEND	4 EA
4.1	STA 12+30.00, 21.91' RT (HORIZ) Δ=20°39'22" (LT) N 433236.56, E 1005087.32 INV ELEV=2507.11	
4.2	STA 13+07.00, 22.00' RT (HORIZ) Δ=21°15'10" (LT) N 433188.49, E 1005153.52 INV ELEV=2507.44 8" X 22 1/2" BEND	2 EA
5	STA 17+00.00, 10.8' RT N 433156.94, E 1005549.93 INV ELEV=2509.88 MATCHLINE	2 EA
6	TYPE I PAVEMENT REPLACEMENT PER SD-650	1 EA 421 SY

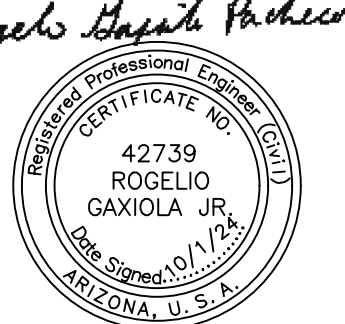


REFERENCE NOTES		
1	STA 10+06.79, 10.6' RT N 433443.17, E 1004986.34 INV ELEV=2508.77 EXIST 6" WATER (FN 584)	
2	STA 10+11.16, 10.1' RT N 433438.83, E 1004987.65 INV ELEV=2508.45 EXIST UNDERGROUND ELECTRIC	
3	SEE SHEET 5	



CITY OF TUCSON
TUCSON WATER

**LAS VISTAS NEIGHBORHOOD
MAIN REPLACEMENT PH II**



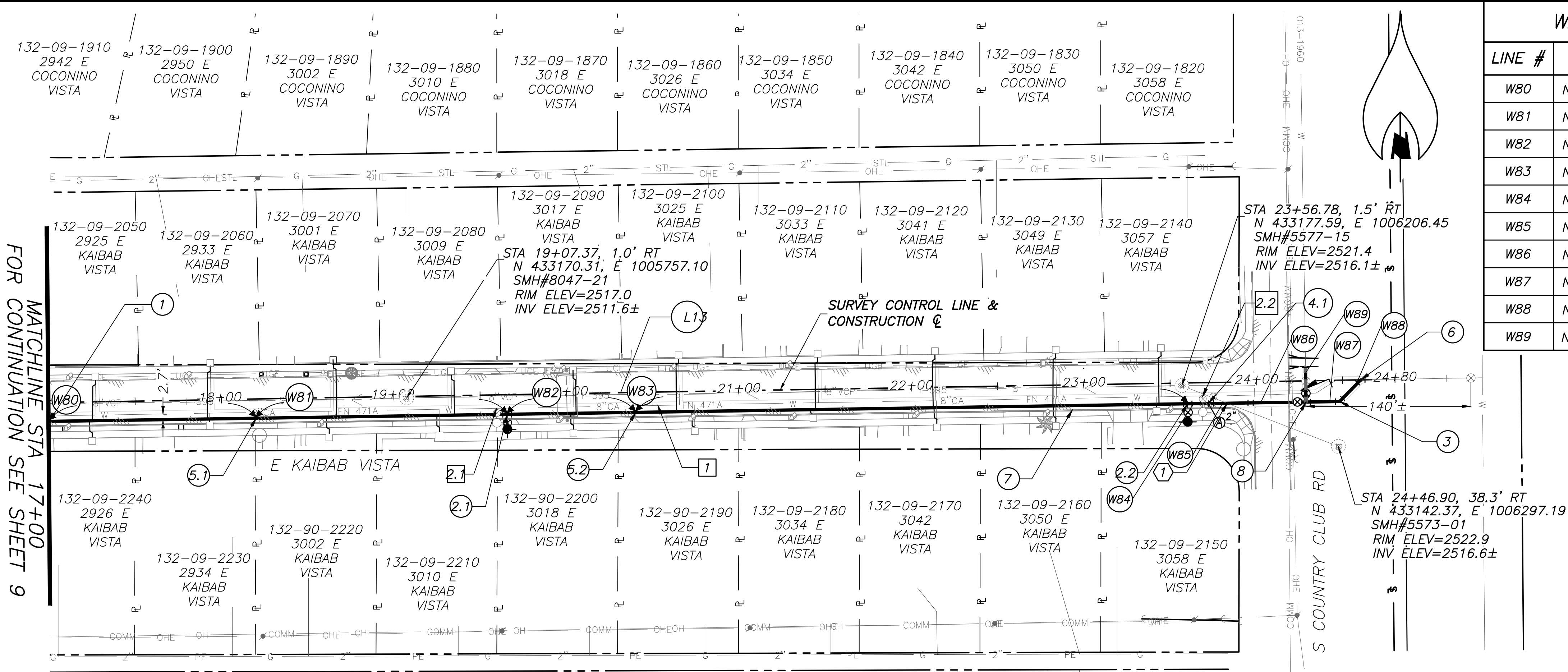
Rogelio Gaxiola Jr.
Professional Engineer
No. 42739
Exp. 10/1/24
Arizona, U.S.A.

KAIBAB VISTA 1
STA 9+83.76 TO STA 17+00

DESIGNED BY: ROGELIO G-P	DATE: 10/24	SURVEY REQUEST NO. SR3545	SHEET 9	OF 17
DRAWN BY: K PENDERGAST	DATE: 10/24	SCALE: VERT.: 1"=4' HORIZ.: 1"=40'	PLAN NO. 1-016-2023	
CHECKED BY: G. WRIGHT	DATE: 10/24			



NO.	BY	DATE	REVISION	APPR.	DATE

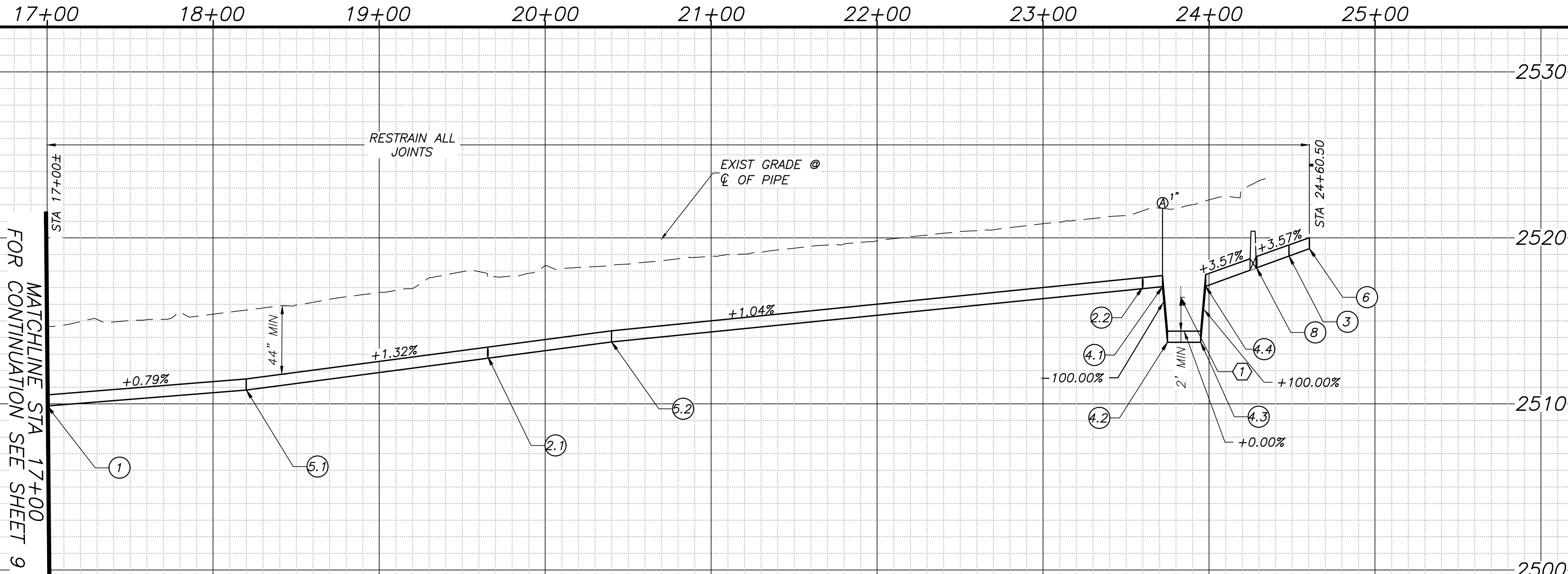


WATER LINE TABLE			
LINE #	BEARING	LENGTH	SIZE/MATL
W80	N89°07'24"E	120.00	8" DIP
W81	N89°07'24"E	145.53	8" DIP
W82	N89°07'24"E	74.47	8" DIP
W83	N89°06'50"E	320.04	8" DIP
W84	N89°08'36"E	12.00	8" DIP
W85	N89°06'53"E	23.00	8" DIP
W86	N89°07'41"E	33.62	8" DIP
W87	N89°07'41"E	19.51	8" DIP
W88	N44°07'41"E	17.46	8" DIP
W89	N00°52'19"W	20.00	8" DIP

LINE TABLE		
LINE #	BEARING	LENGTH
L6	N89°49'30"E	419.28
L13	N89°00'31"E	1000.00

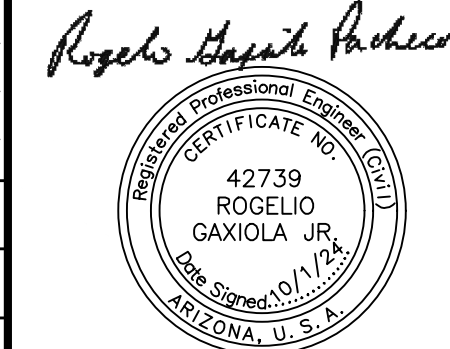
REMOVE/ ABANDON NOTES		
1	STA 17+00.00, 8.3' RT TO STA 24+60.50 13' RT REMOVE & DISPOSE 10" CA AND SMALLER PIPE UNDER PAVEMENT TO NEAREST JOINT PER SD-350	761± LF
2	STA 19+59.41, 8.3' RT REMOVE & DISPOSE EXIST FIRE HYDRANT ASSEMBLY & APPURTENANCES	2 EA
2.2	STA 23+68.63, 8.3' RT REMOVE & DISPOSE EXIST FIRE HYDRANT ASSEMBLY & APPURTENANCES	
CONSTRUCTION NOTES		
1	STA 17+00.00, 10.8' RT N 433156.94, E 1005549.93 INV ELEV=2509.88 MATCHLINE	1 EA
2	STA 19+65.48, 11.4' RT N 433160.93, E 1005815.38 INV ELEV=2512.84	
2.2	STA 23+60.00, 12.1' RT N 433167.02, E 1006209.85 INV ELEV=2517.02 FIRE HYDRANT ASSEMBLY PER SD-500	2 EA
3	STA 24+48.13, 12.32' RT (HORIZ) Δ=45°00'00" (LT) N 433168.36, E 1006297.97 INV ELEV=2518.90 8" X 45° BEND	1 EA
4.1	STA 23+72.00, 12.2' RT (VERT) N 433167.20, E 1006221.85 INV ELEV=2517.06 STA 23+72.00, 12.2' RT (LOCATION OF TAP) N 433167.20, E 1006221.85 INV ELEV=2517.06 STA 23+78.16, 23.4' RT (LOCATION OF ARV) N 433156.03, E 1006228.20 ARV PER SD-330	1 EA
4.2	STA 23+75.00, 12.2' RT (VERT) N 433167.25, E 1006224.85 INV ELEV=2513.72	
4.3	STA 23+95.00, 12.2' RT (VERT) N 433167.55, E 1006244.85 INV ELEV=2513.72	
4.4	STA 23+98.00, 12.2' RT (VERT) N 433167.60, E 1006247.85 INV ELEV=2517.09 8" X 45° BEND	4 EA
5.1	STA 18+20.00, 11.1' RT N 433158.72, E 1005669.92 INV ELEV=2510.83	
5.2	STA 20+40.00, 11.6' RT N 433162.06, E 1005889.89 INV ELEV=2513.74 GRADE BREAK END CONSTRUCTION	2 EA
6	STA 24+60.50, 0.00' RT (HORIZ) Δ=44°52'50" (LT) N 433180.90, E 1006310.13 INV ELEV=2519.35 8"X45° BEND CONNECT TO EXISTING 8" CA (FN 471A)	1 EA
7	TYPE I PAVEMENT REPLACEMENT PER SD-650	799 SY
8	STA 24+28.64, 12.3' RT N 433168.06, E 1006278.48 INV ELEV=2518.20 8" X 8" TEE 8" GATE VALVE, B&C (N, W) CONNECT TO EXIST 8" PVC (PN 128-2004)	1 EA 2 EA

REFERENCE NOTES	
1	SEWER & WATER CROSSING STA 23+82.93, 12.2' RT N 433167.37, E 1006232.78 INV ELEV=2516.43 BOTTOM OF SEWER = 2516.43, TOP OF WATER = 2514.38 1 EA REPLACE EXIST 8" VCP WITH 8" PVC PER SD-106, WHERE SD-106 NOTE 2 "APPROVED EQUAL" PIPE MATERIAL IS AWWA C900 DR25 OR D3034 DR26 PVC PIPE. DUCTILE IRON IS NOT ACCEPTABLE FOR SEWER PIPE REPLACEMENT.





**LAS VISTAS NEIGHBORHOOD
MAIN REPLACEMENT PH II**

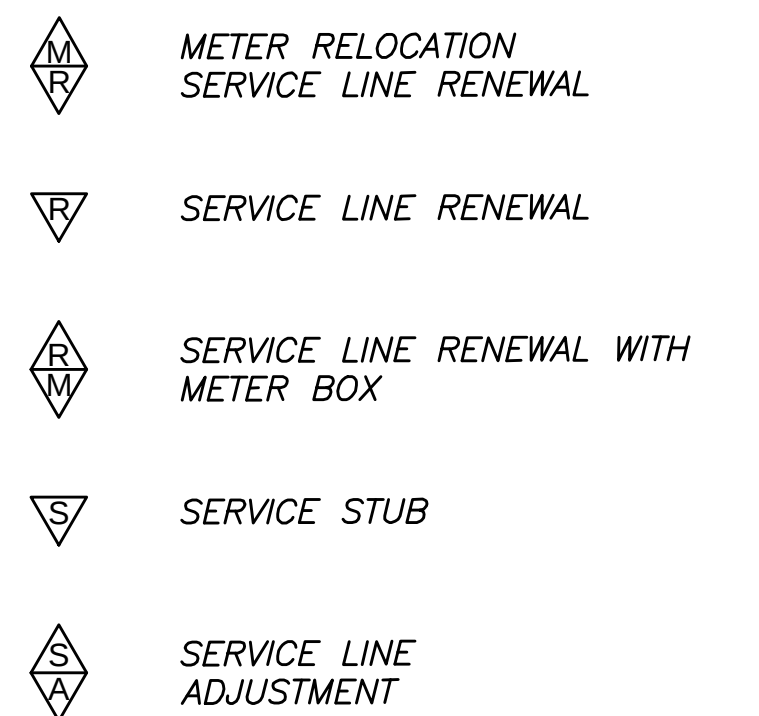


**KAIBAB VISTA 2
STA 17+00 TO STA 24+60.50**

DESIGNED BY: ROGELIO G-P	DATE: 10/24	SURVEY REQUEST NO: SR3545	SHEET 10 OF 17
DRAWN BY: K PENDERGAST	DATE: 10/24	SCALE: VERT: 1"=4' HORIZ: 1"=40'	PLAN NO: 1-016-2023
CHECKED BY: G WRIGHT	DATE: 10/24		



NO.	BY	DATE	REVISION	APPR.	DATE

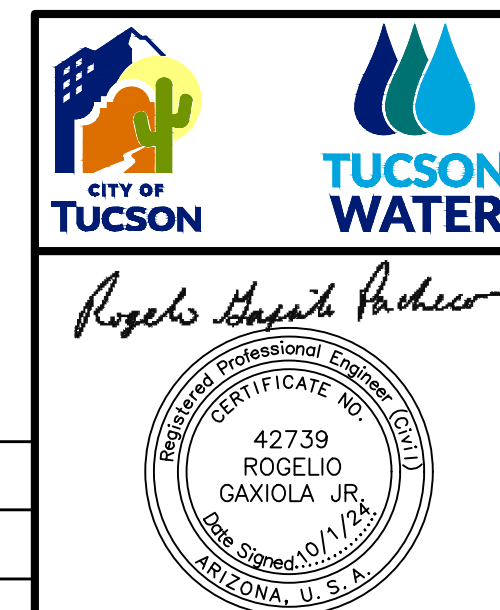


1. METER RELOCATION CAN BE FIELD ADJUSTED WITH APPROVAL FROM TUCSON WATER.
2. TUCSON WATER SHALL SUPPLY ALL NEW WATER METERS (AMR) TO BE INSTALLED AS PART OF THIS PROJECT.
3. CONTRACTOR TO INSTALL MIN 1" CU PIPE TO ALL METERS.

METER SHEET PLAN
NTS



NO.	BY	DATE	REVISION	APPR.	DATE

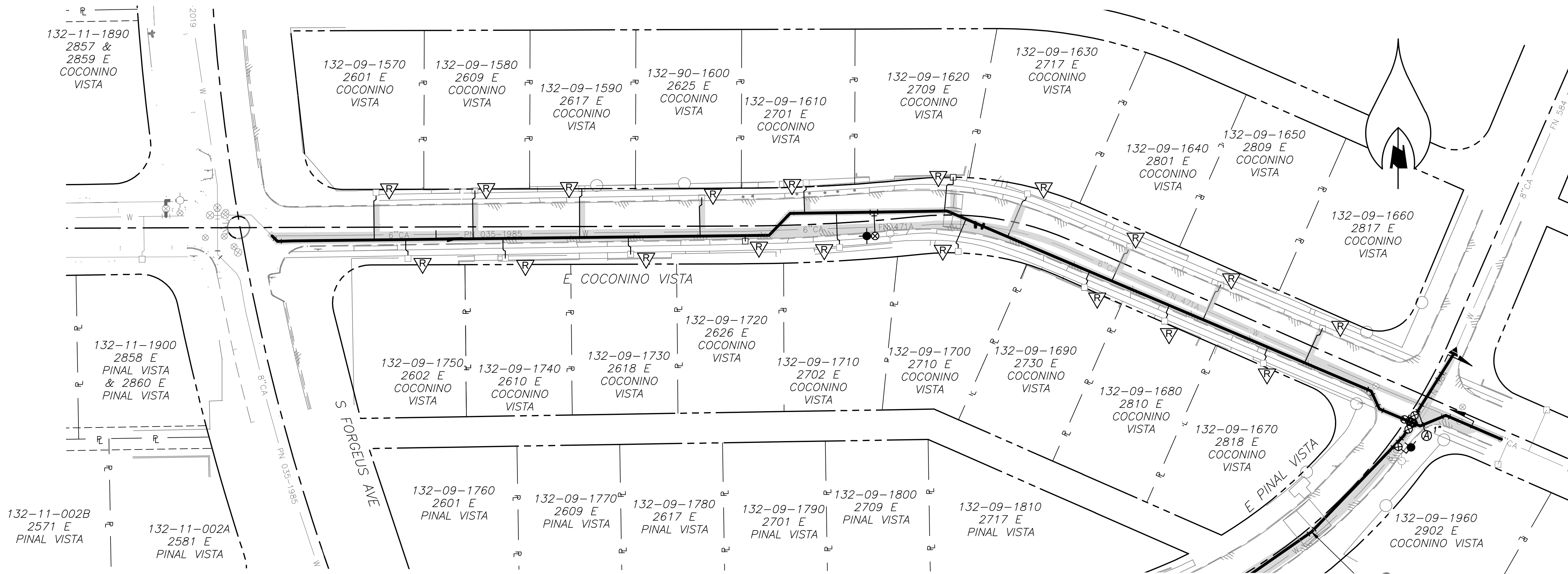


CITY OF TUCSON

***LAS VISTAS NEIGHBORHOOD
MAIN REPLACEMENT PH II***

PINAL VISTA METER SHEET

DESIGNED BY: ROGELIO G-P	DATE: 10/24	SURVEY REQUEST NO. SR3545	SHEET 11 OF 17
DRAWN BY: K PENDERGAST	DATE: 10/24	SCALE: VERT.: NO SCALE	
CHECKED BY: G WRIGHT	DATE: 10/24	HORIZ: 1"=100'	1-016-2023



SERVICE WORK					
#	ADDRESS	EXIST SERV	SERV WORK	EXIST CONN DIA-MATL	NEW CONN DIA-MATL
1	2601 E COCONINO VISTA	M (5/8")	R	3/4 - CU	1"-CU
2	2602 E COCONINO VISTA	M (5/8")	R	3/4 - CU	1"-CU
3	2609 E COCONINO VISTA	M (5/8")	R	3/4 - CU	1"-CU
4	2610 E COCONINO VISTA	M (5/8")	R	3/4 - CU	1"-CU
5	2617 E COCONINO VISTA	M (5/8")	R	3/4 - CU	1"-CU
6	2618 E COCONINO VISTA	M (5/8")	R	3/4 - CU	1"-CU
7	2625 E COCONINO VISTA	M (5/8")	R	3/4 - CU	1"-CU
8	2626 E COCONINO VISTA	M (5/8")	R	3/4 - CU	1"-CU
9	2701 E COCONINO VISTA	M (5/8")	R	3/4 - CU	1"-CU
10	2702 E COCONINO VISTA	M (5/8")	R	3/4 - CU	1"-CU
11	2709 E COCONINO VISTA	M (5/8")	R	3/4 - CU	1"-CU
12	2710 E COCONINO VISTA	M (5/8")	R	3/4 - CU	1"-CU
13	2717 E COCONINO VISTA	M (5/8")	R	3/4 - CU	1"-CU
14	2730 E COCONINO VISTA	M (5/8")	R	3/4 - CU	1"-CU
15	2801 E COCONINO VISTA	M (5/8")	R	3/4 -CU	1" CU
16	2809 E COCONINO VISTA	M (5/8")	R	3/4 - CU	1"-CU
17	2810 E COCONINO VISTA	M (5/8")	R	3/4 - CU	1"-CU
18	2817 E COCONINO VISTA	M (5/8")	R	3/4 -CU	1"-CU
19	2818 E COCONINO VISTA	M (5/8")	R	3/4 - CU	1"-CU

METER SHEET PLAN
NTS

NOTES:

- METER RELOCATION CAN BE FIELD ADJUSTED WITH APPROVAL FROM TUCSON WATER.
- TUCSON WATER SHALL SUPPLY ALL NEW WATER METERS (AMR) TO BE INSTALLED AS PART OF THIS PROJECT.
- CONTRACTOR TO INSTALL MIN 1" CU PIPE TO ALL METERS.

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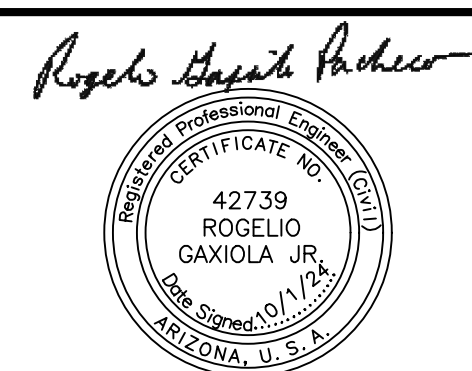
METER RELOCATION
SERVICE LINE RENEWAL
- 

SERVICE LINE RENEWAL
- 

SERVICE LINE RENEWAL WITH
METER BOX
- 

SERVICE STUB
- 

SERVICE LINE
ADJUSTMENT



CITY OF TUCSON

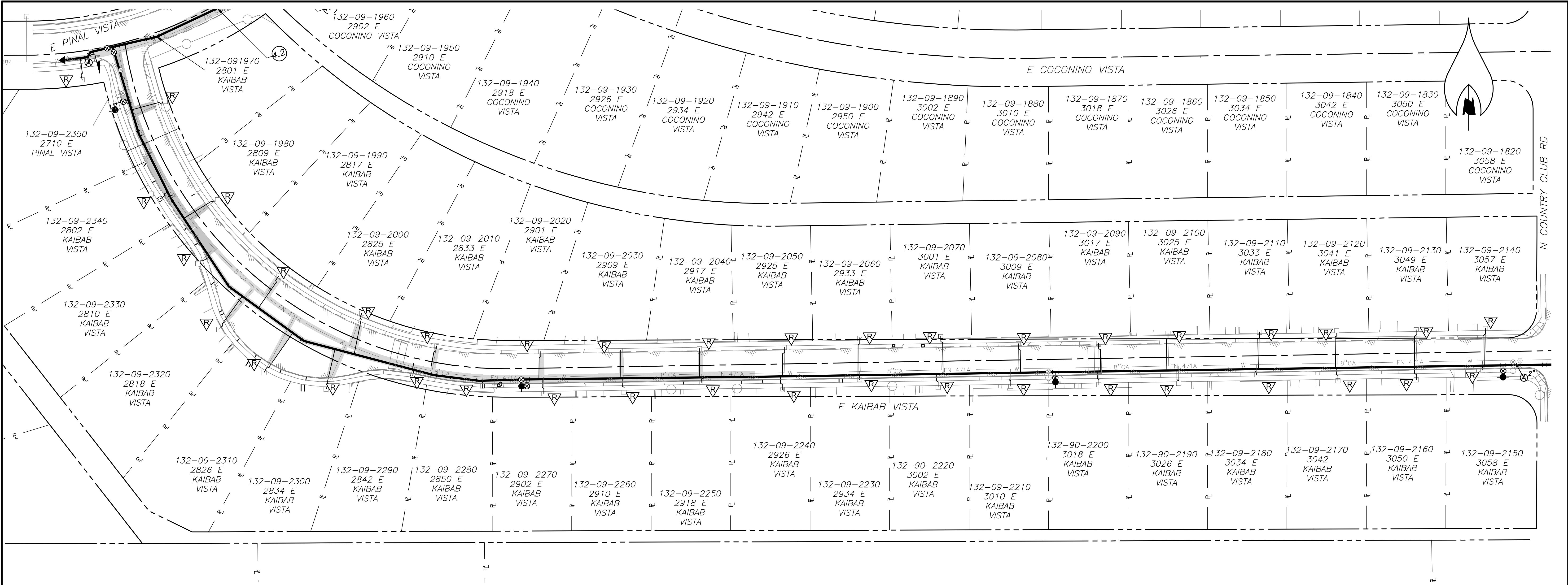
**LAS VISTAS NEIGHBORHOOD
MAIN REPLACEMENT PH II**

COCONINO VISTA METER SHEET

DESIGNED BY: ROGELIO G-P	DATE: 10/24	SURVEY REQUEST NO: SR3545	SHEET 12 of 17
DRAWN BY: K PENDERGAST	DATE: 10/24	SCALE: VERT: NO SCALE HORIZ: 1"=100'	
CHECKED BY: G. WRIGHT	DATE: 10/24	PLAN NO: 1-016-2023	



NO.	BY	DATE	REVISION	APPR.	DATE



METER SHEET PLAN
NTS

SERVICE WORK					
#	ADDRESS	EXIST SERV	SERV WORK	EXIST CONN DIA-MATL	NEW CONN DIA-MATL
1	2710 E PINAL VISTA	M (5/8")	R	3/4 - CU	1"-CU
2	2801 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
3	2802 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
4	2809 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
5	2810 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
6	2817 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
7	2818 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
8	2825 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
9	2826 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
10	2833 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
11	2834 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
12	2842 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
13	2850 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
14	2901 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
15	2902 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
16	2909 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
17	2910 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
18	2917 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
19	2918 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU

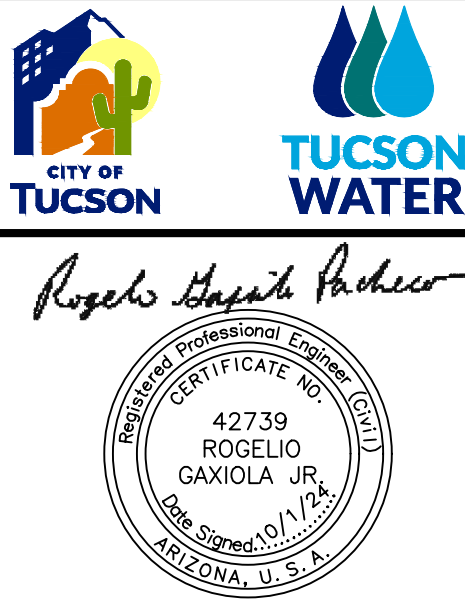
20	2925 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
21	2926 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
22	2933 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
23	2934 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
24	3001 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
25	3002 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
26	3009 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
27	3010 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
28	3017 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
29	3018 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
30	3025 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
31	3026 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
32	3033 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
33	3034 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
34	3041 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
35	3042 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
36	3049 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
37	3050 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
38	3057 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU
39	3058 E KAIBAB VISTA	M (5/8")	R	3/4 - CU	1"-CU

- NOTES:
- METER RELOCATION CAN BE FIELD ADJUSTED WITH APPROVAL FROM TUCSON WATER.
 - TUCSON WATER SHALL SUPPLY ALL NEW WATER METERS (AMR) TO BE INSTALLED AS PART OF THIS PROJECT.
 - CONTRACTOR TO INSTALL MIN 1" CU PIPE TO ALL METERS.

- METER RELOCATION SERVICE LINE RENEWAL
- SERVICE LINE RENEWAL
- SERVICE LINE RENEWAL WITH METER BOX
- SERVICE STUB
- SERVICE LINE ADJUSTMENT



NO.	BY	DATE	REVISION	APPR.	DATE

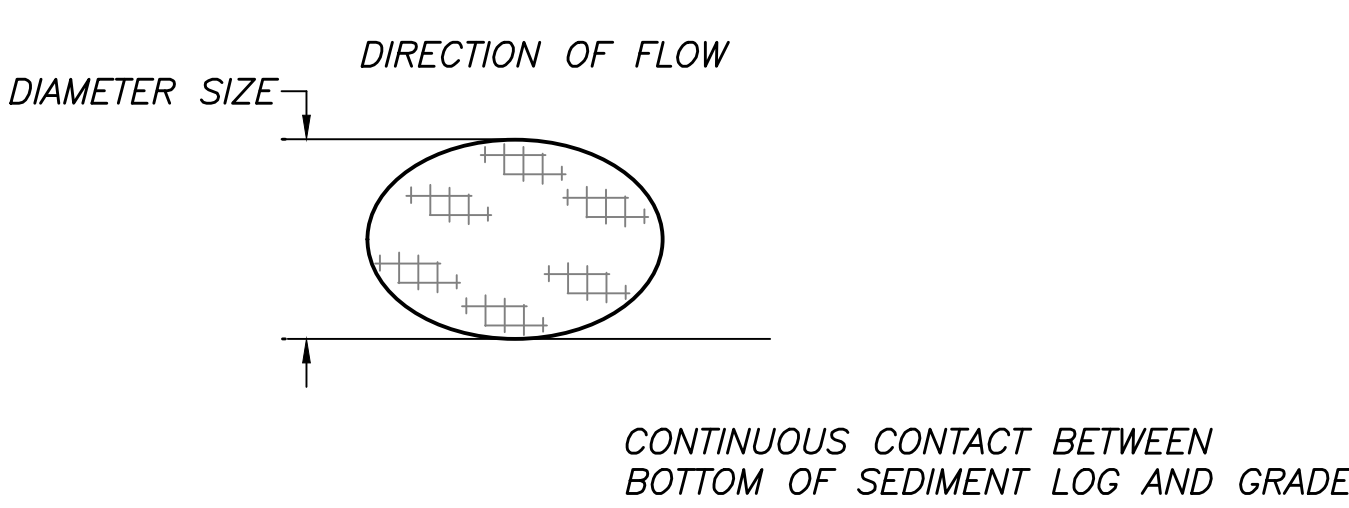
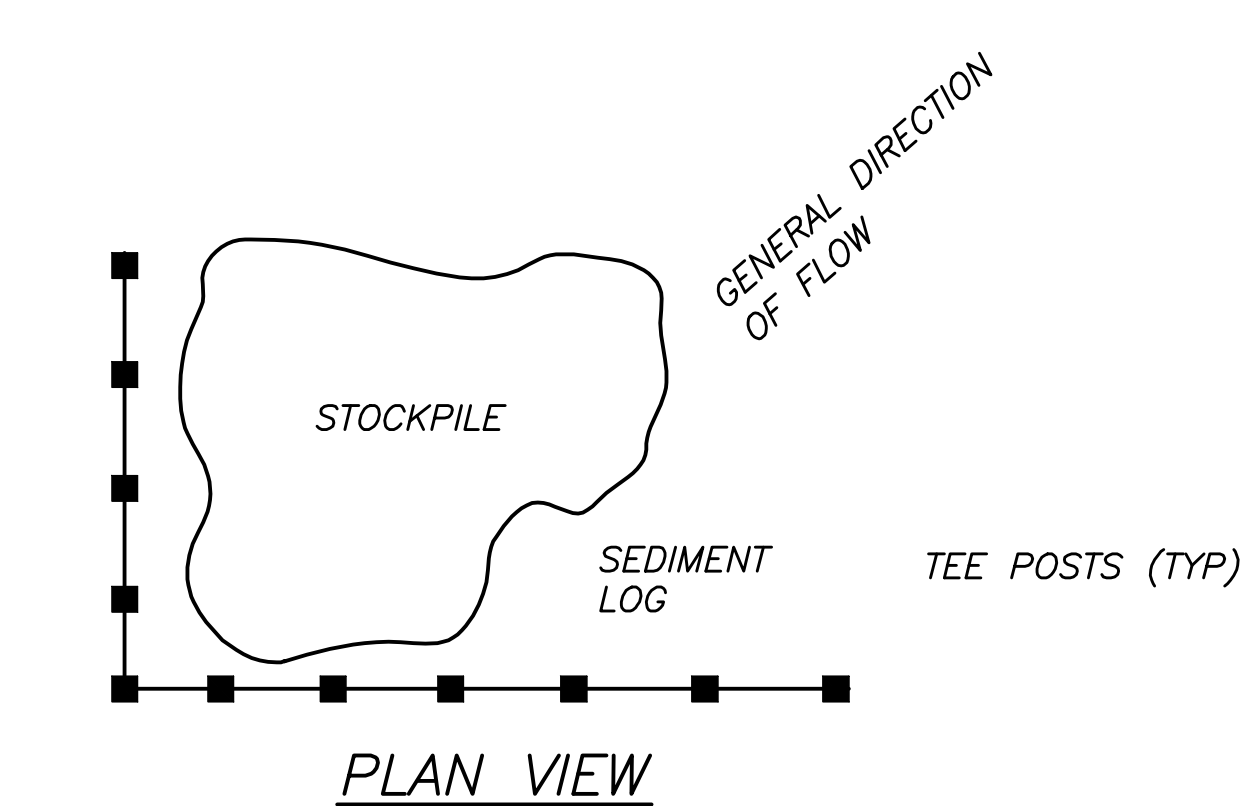


**LAS VISTAS NEIGHBORHOOD
MAIN REPLACEMENT PH II**

KAIBAB VISTA METER SHEET

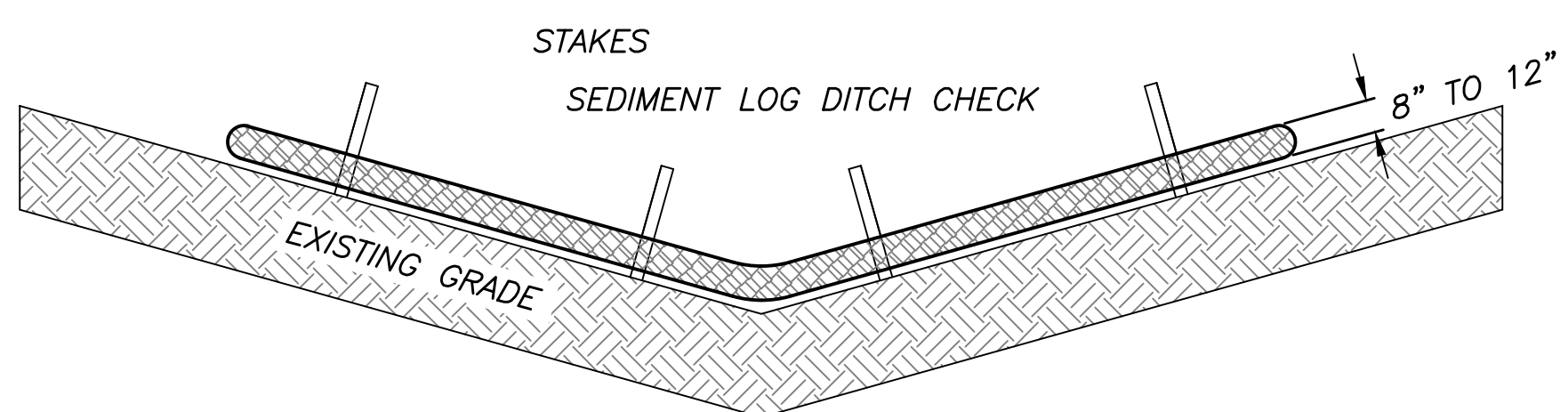
DESIGNED BY: ROGELIO G-P	DATE: 10/24	SURVEY REQUEST NO: SR3545	SHEET 13 of 17
DRAWN BY: K PENDERGAST	DATE: 10/24	SCALE: NO SCALE	
CHECKED BY: G. WRIGHT	DATE: 10/24	SCALE: NO SCALE	

1-016-2023

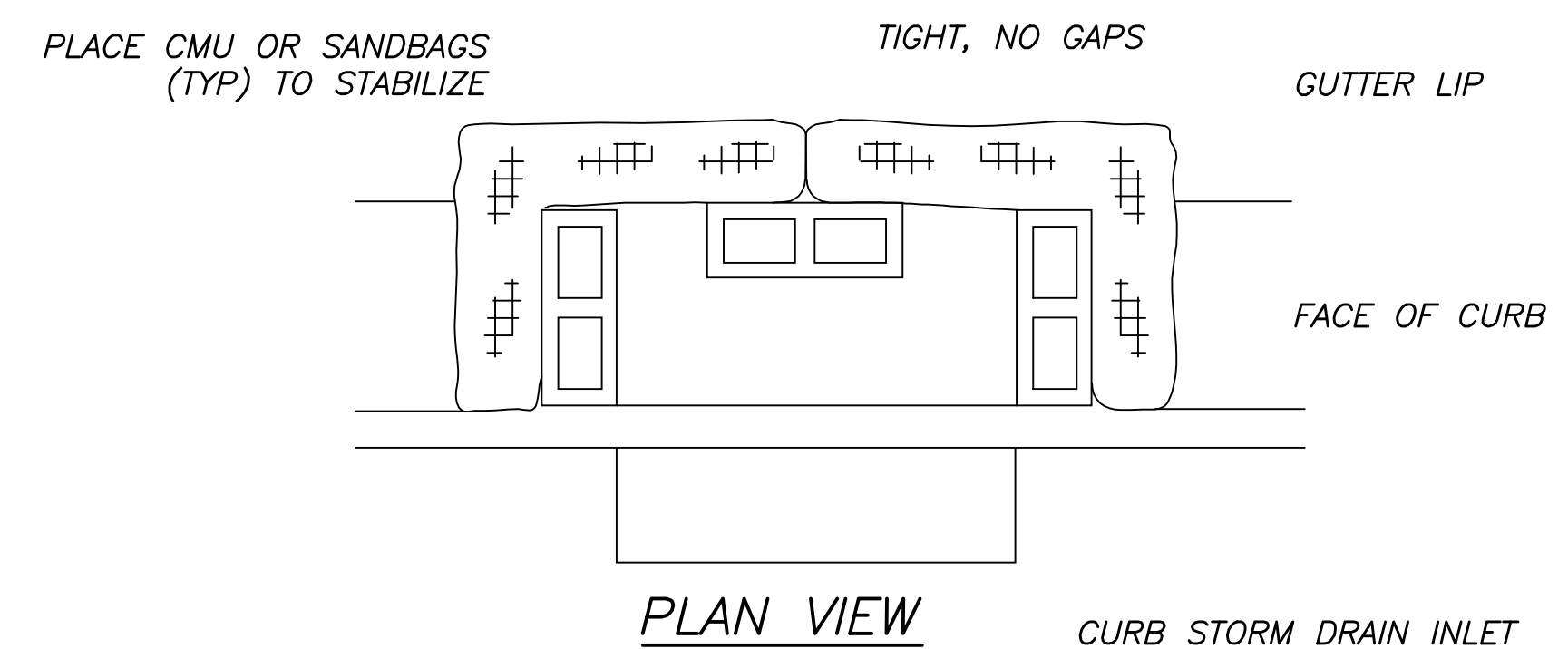


- NOTES:**
1. SEDIMENT LOGS SHALL BE LOCATED AS INDICATED ON SWPPP SITE PLAN OR AS DIRECTED BY THE ENGINEER.
 2. LOGS SHALL BE SELECTED, INSTALLED, AND MAINTAINED WITH MANUFACTURER'S SPECIFICATIONS AND GOOD ENGINEERING PRACTICES.
 3. THE CONTIGUOUS CONTACT BETWEEN THE BOTTOM OF THE LOG AND THE GROUND IS MANDATORY.
 4. REMOVE SEDIMENT ONCE FINAL STABILIZATION REQUIREMENTS ARE MET. CONTRACTOR TO DISPOSE OF SEDIMENT LOGS AND DISPOSE OF TRAPPED SEDIMENT MATERIAL.

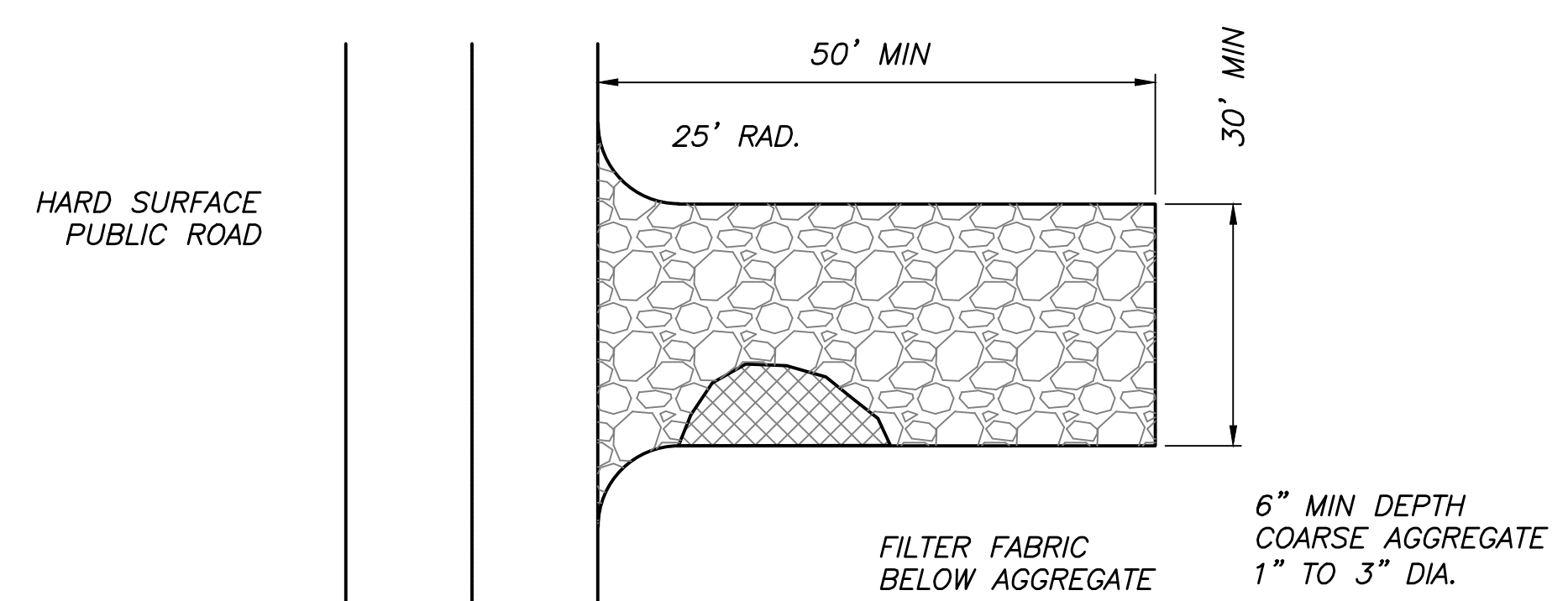
SEDIMENT LOG STOCKPILE PROTECTION DETAIL
N.T.S.



SEDIMENT LOG CHECK/DIKE DETAIL
N.T.S.



SEDIMENT LOG CURB INLET PROTECTION DETAIL
N.T.S.

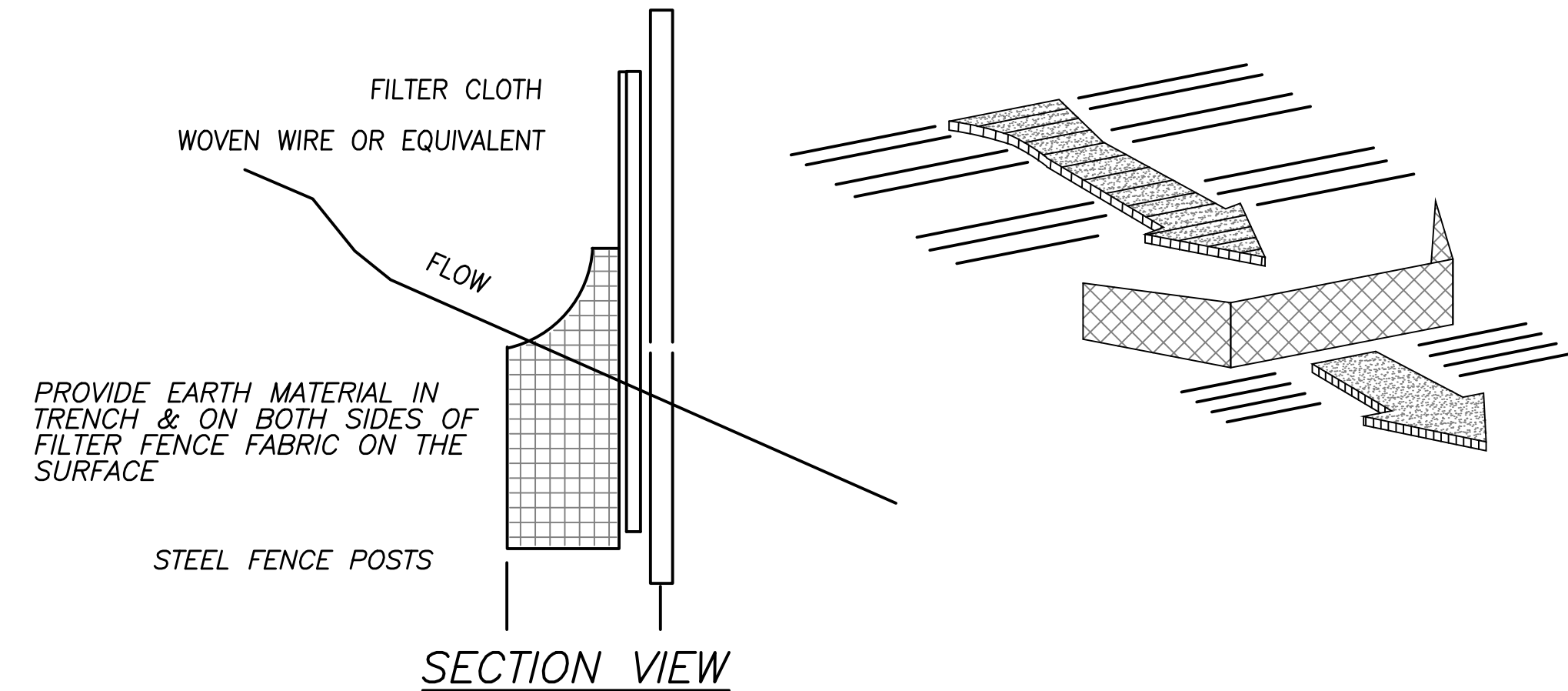


STABILIZED CONSTRUCTION SITE ENTRANCE/EXIT

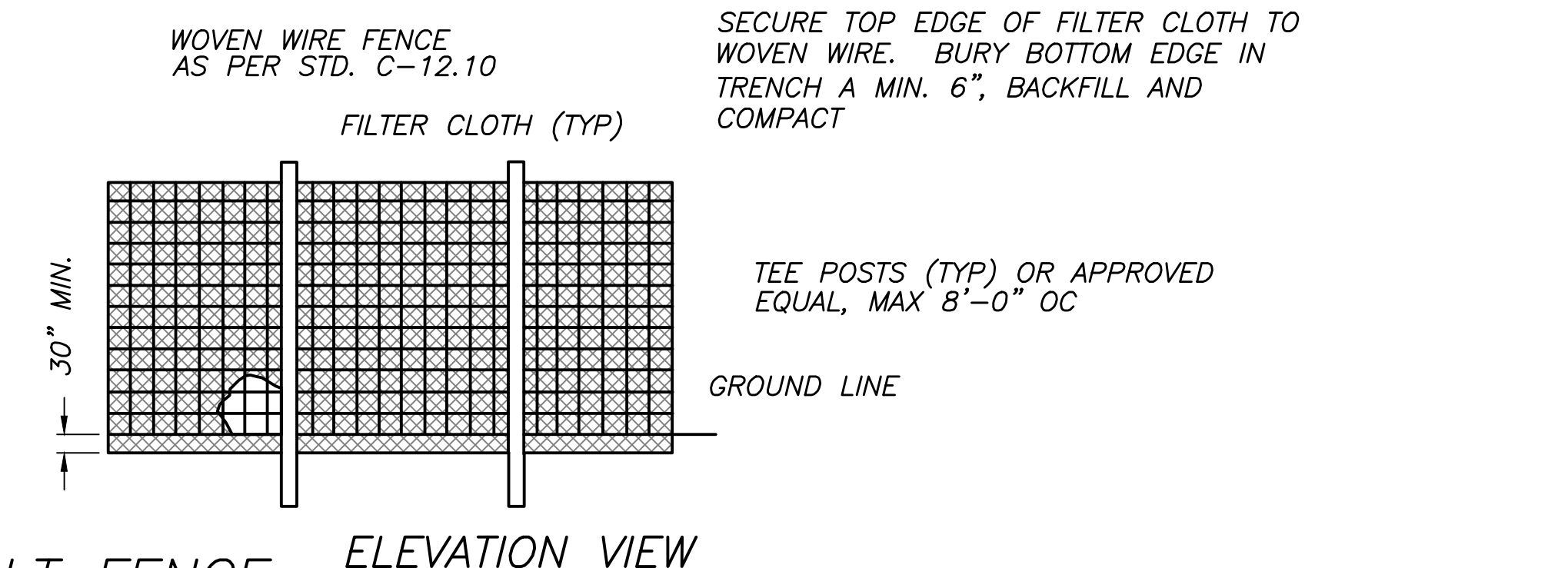
DEFINITION
A STABILIZED PAD OF AGGREGATE UNDERLAIN WITH FILTER CLOTH LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK OR PARKING AREA.

PURPOSE
THE PURPOSE OF A STABILIZED CONSTRUCTION ENTRANCE IS TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY OR STREETS. REDUCING TRACKOUT OF SEDIMENTS AND OTHER POLLUTANTS ONTO PAVED ROADS HELPS PREVENT DEPOSITION OF SEDIMENTS INTO LOCAL STORM DRAINS AND PRODUCTION OF AIRBORNE DUST.

APPROPRIATE APPLICATIONS
A STABILIZED CONSTRUCTION ENTRANCE SHOULD BE USED AT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS. NPDES PERMITS REQUIRE THAT APPROPRIATE MEASURES BE IMPLEMENTED TO PREVENT TRACKOUT OF SEDIMENTS ONTO ROADWAYS.



— SILT FENCE FILTER FABRIC IN THE INSTALLATION TRENCH SHALL BE BURIED A MINIMUM OF TWENTY INCHES. THE SECTION OF THE TRENCH SHALL BE A MINIMUM OF 6" (DEEP) X 8" (WIDE). FILTER FABRIC IS TO BE BURIED ALONG THE SIDE AND BOTTOM OF THE TRENCH & BACK UP TO THE UPSTREAM SLOPE GRADE SILT FENCE FILTER FABRIC SECTION SHALL BE A "J" TO PREVENT UNDER CUTS AND CARRY STRESS FROM UPSTREAM SEDIMENT LOADING.



SILT FENCE

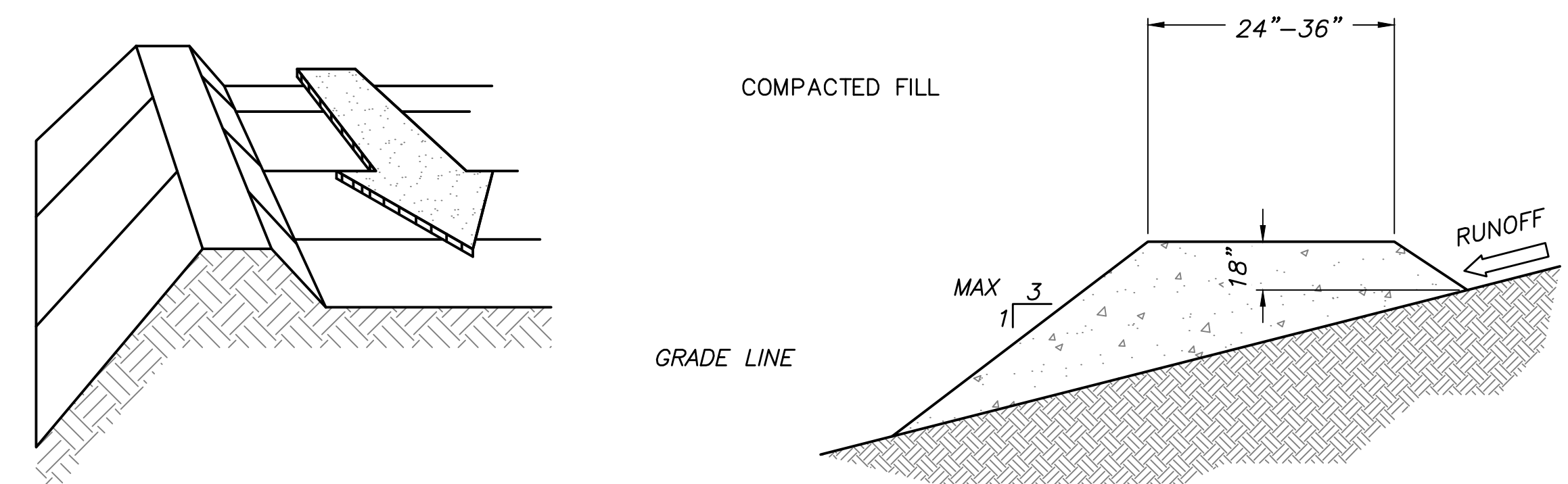
DEFINITION
TEMPORARY SEDIMENT BARRIER CONSISTING OF FILTER FABRIC WITH WIRE FENCE AS NEEDED FOR SUPPORT.

PURPOSE

1. INTERCEPT AND DETAIN SEDIMENT FROM DISTURBED AREAS DURING CONSTRUCTION.
2. DECREASE THE VELOCITY OF SHEET FLOWS AND LOW-TO-MODERATE LEVEL CHANNELS.

APPROPRIATE APPLICATIONS
SILT FENCES MUST BE PROVIDED JUST UPSTREAM OF THE POINT(S) OF DISCHARGE OF RUNOFF FROM THE SITE, BEFORE THE FLOW BECOMES CONCENTRATED. THEY MAY ALSO BE USED:

1. BELOW DISTURBED AREAS WHERE RUNOFF MAY OCCUR IN THE FORM OF SHEET AND RILL EROSION; WHEREVER RUNOFF HAS THE POTENTIAL TO IMPACT DOWNSTREAM RESOURCES.
2. PERPENDICULAR TO MINOR SWALES OR DITCH LINES FOR UP TO ONE ACRE CONTRIBUTING DRAINAGE AREAS.



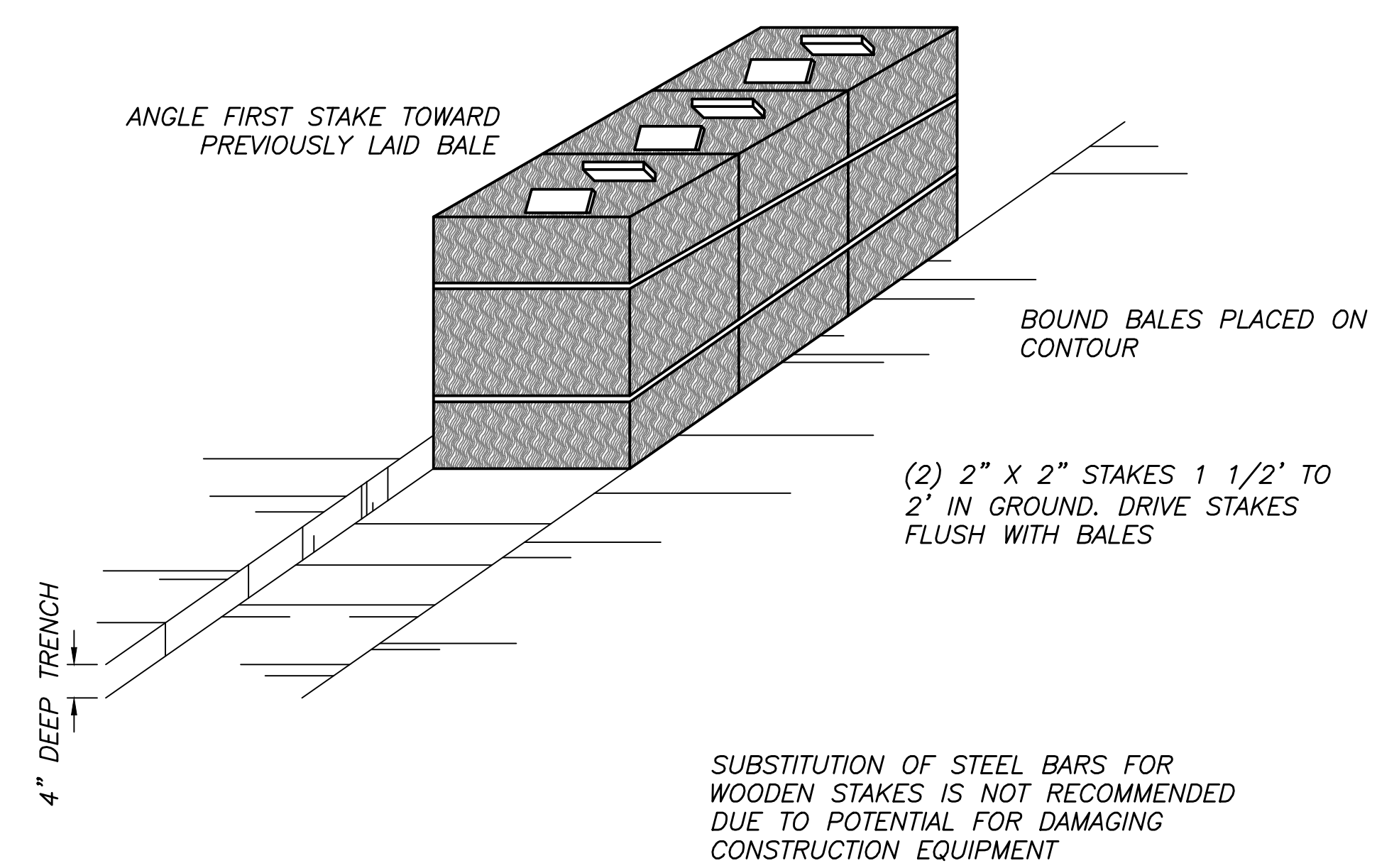
NOTE: SIZE OF DIKE IS BASED ON INDIVIDUAL SITE. DIMENSIONS SHOWN ARE FOR GENERAL INFORMATION ONLY.

TEMPORARY DIVERSION DIKE

DEFINITION
A TEMPORARY BERM OR RIDGE OF COMPACTED SOIL, LOCATED IN SUCH A MANNER AS TO CHANNEL WATER TO A DESIRED LOCATION.

PURPOSE
THE PURPOSE OF A TEMPORARY DIVERSION DIKE IS TO DIRECT RUNOFF TO A SEDIMENT TRAPPING DEVICE OR STABILIZED OUTLET, AND TO REDUCE THE POTENTIAL FOR EROSION. TEMPORARY DIVERSION DIKES CAN ALSO BE USED FOR DIVERTING CLEAN WATER AWAY AND SHEET FLOWS AWAY FROM DISTURBED AREAS AND UNPROTECTED SLOPES.

APPROPRIATE APPLICATIONS
TEMPORARY DIVERSION DIKES ARE OFTEN CONSTRUCTED UPSTREAM OF DISTURBED AREAS AND AROUND CONSTRUCTION SITES. THE DIKES SHOULD REMAIN IN PLACE UNTIL THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. THE DIKES MUST BE ON-SITE AND MAINTAIN THE INFLOW AND OUTFLOW CONDITIONS OF THE HISTORIC DRAINAGE PATTERN.



STRAW BALE DIKE

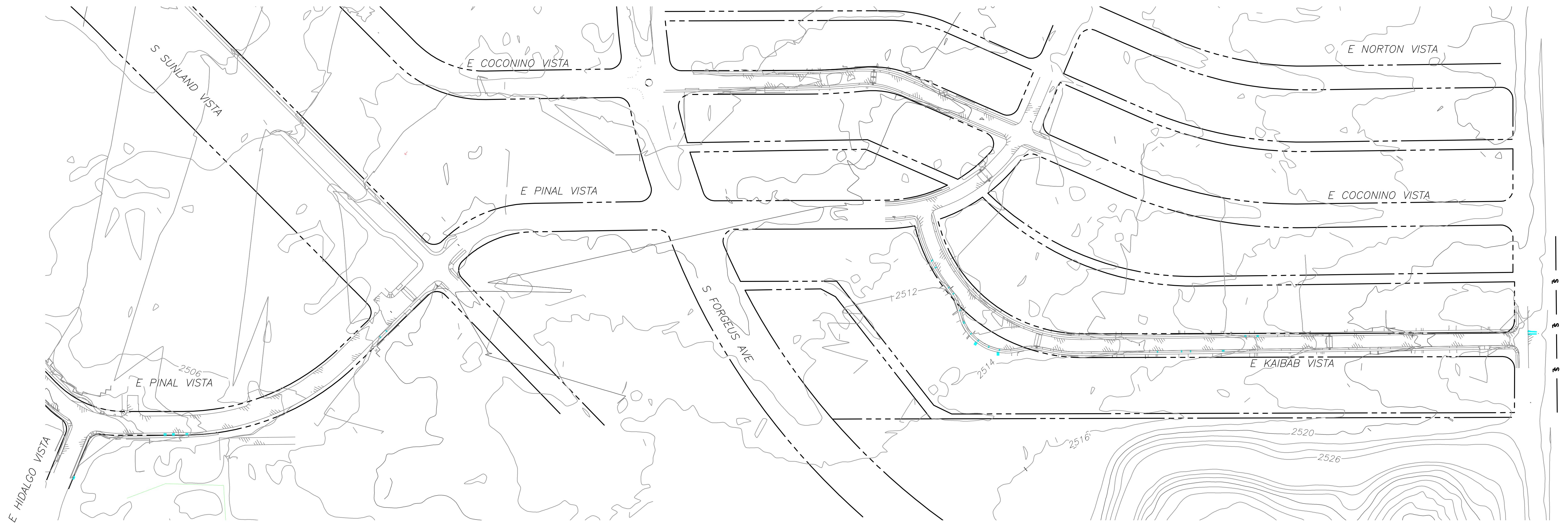
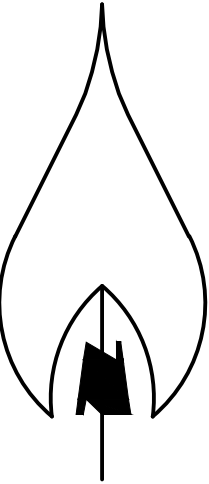
DEFINITION
A TEMPORARY BARRIER OF STRAW BALES OR SIMILAR MATERIAL USED TO INTERCEPT SEDIMENT LADEN RUNOFF FROM SMALL DRAINAGE AREAS OF DISTURBED SOIL.

PURPOSE
THE PURPOSE OF A STRAW BALE DIKE IS TO REDUCE RUNOFF VELOCITY AND CAUSE DEPOSITION OF THE TRANSPORTED SEDIMENT LOAD.

APPROPRIATE APPLICATIONS
THE STRAW BALE DIKE IS USED WHERE THERE ARE NO CONCENTRATIONS OF WATER IN A CHANNEL OR DRAINAGE WAY, AND WHERE EROSION WOULD OCCUR FROM SHEET FLOW. THESE BARRIERS ARE TYPICALLY CONSTRUCTED BELOW DISTURBED AREAS SUBJECT TO SHEET FLOW OF RUNOFF TO INTERCEPT AND DETAIN SEDIMENT.

FOR INFORMATION ONLY	 		CITY OF TUCSON LAS VISTAS NEIGHBORHOOD MAIN REPLACEMENT PH II			
	STORMWATER POLLUTION PREVENTION DETAILS		DESIGNED BY: ROQUELO G-P DATE: 10/24 DRAWN BY: K PENDERGAST DATE: 10/24 CHECKED BY: G. WRIGHT DATE: 10/24			
			SURVEY REQUEST NO: SR3545 SCALE: NO SCALE VERT: NO SCALE HORIZ: NO SCALE			
			SHEET 15 OF 17 PLAN NO: 1-016-2023			

NO.	BY	DATE	REVISION	APPR.	DATE

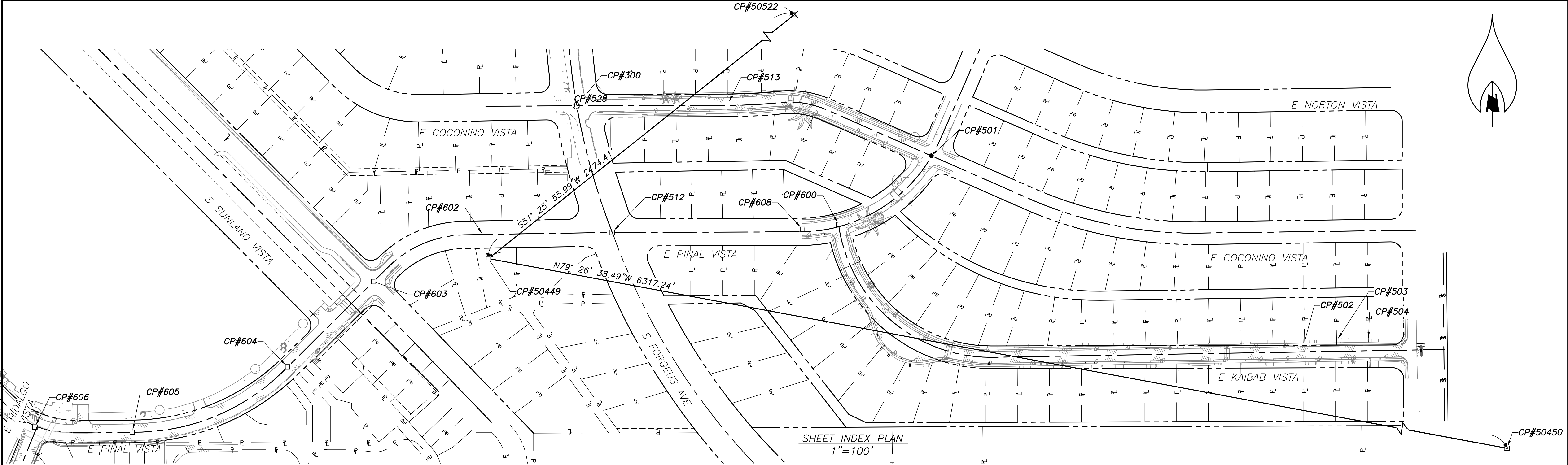


PROJECT VICINITY TOPO MAP
1"=100'



NO.	BY	DATE	REVISION	APPR.	DATE

 FOR INFORMATION ONLY	CITY OF TUCSON LAS VISTAS NEIGHBORHOOD MAIN REPLACEMENT PH II			
	STORMWATER POLLUTION PREVENTION TOPOGRAPHIC MAP			
DESIGNED BY: ROGELIO G-P	DATE: 10/24	SURVEY REQUEST NO. SR3545	SHEET 16 OF 17	
DRAWN BY: K PENDERGAST	DATE: 10/24	SCALE: NO SCALE	PLAN NO. 1-016-2023	
CHECKED BY: G WRIGHT	DATE: 10/24	VERT.: NO SCALE HORIZ.: 1"=100'		



COORDINATES OF CONTROL POINTS

50522 C-003A	50449 C-008B
NORTHING: 433381.483	NORTHING: 434924.131
EASTING: 1004224.134	EASTING: 1006158.806
ELEVATION: 2510.234	ELEVATION: 2515.034

NOTICE

ACCORDING TO ARIZONA STATUTE TITLE 33 § 33-103 IT IS UNLAWFUL TO DESTROY, DISFIGURE, REMOVER OR DISTURB A LAND SURVEY MONUMENT THAT BEARS AN AGENCY'S NAME OR THE REGISTRATION NUMBER OF A LAND SURVEYOR.

BASIS OF BEARINGS

THE BEARINGS FOR THIS PROJECT ARE GRID BASED ON GPS OBSERVATIONS. THE MEASURED DIRECTION BETWEEN CITY OF TUCSON WATER GEODETIC CONTROL POINT 50522 C-003A AND CITY OF TUCSON WATER GEODETIC CONTROL POINT 50449 C-008B IS S51°25'56"W.

BASIS OF ELEVATIONS

THE ELEVATIONS FOR THIS PROJECT ARE BASED ON THE CITY OF TUCSON WATER GEODETIC CONTROL POINT 50522 C-003A. THE ELEVATION OF SAID POINT BEING 2515.034 NAVD88.

BASIS OF COORDINATES

THE COORDINATES FOR THIS PROJECT ARE ARIZONA STATE PLANE-CENTRAL ZONE-INTERNATIONAL FEET (REFERENCE FRAME: NAD83 (2011)(EPOCH:2010.0000) BASED ON CITY OF TUCSON WATER GEODETIC CONTROL POINT 50522 C-003A

50522 C-003A HAS A COMBINED SCALE FACTOR OF 0.999891590 THIS SHOULD BE USED WHEN CONVERTING GROUND VALUES TO ARIZONA STATE PLANE CENTRAL ZONE (NAD83) VALUES.

50522 C-003A HAS A 1/X COMBINED SCALE FACTOR OF 1.000108422 THIS SHOULD BE USED WHEN CONVERTING ARIZONA STATE PLANE CENTRAL ZONE (NAD83) VALUES TO GROUND VALUES.

POINT TABLE				
CP #	NORTHING	EASTING	ELEVATION	DESCRIPTION
300	433717.90	1004418.44	2507.53	CALC
501	433607.91	1005199.27	2510.76	ACP /2IN PUNCH NLY
502	433199.32	1006021.61	2520.83	RB4 /RLS13187
503	433200.30	1006091.68	2521.02	OIP /1INCH RLS13187
504	433201.73	1006161.61	2521.60	RB5 /NO ID
512	433439.10	1004496.49	2507.95	ACP/ 2IN PLS21765
513	433723.20	1004752.04	2507.53	ACP/ 2IN PLS21765
600	433456.64	1004994.88	2510.61	BSM / 2IN COLLINS PE21765
602	433431.94	1004213.10	2509.01	NS / NUMBERS UNREADABLE
603	433330.88	1003971.06	2509.31	BSM / 2IN PUNCH ONLY
604	433142.64	1003781.62	2507.11	BSM / 2IN CITY
605	432999.06	1003439.69	2503.58	BSM / 2IN CITY
606	433010.28	1003225.24	2500.57	BSM / 2IN CITY
608	433445.99	1004915.59	2510.09	BSM / 2IN COLLINS PINA
50449	433381.48	1004224.13	2510.23	GCP /C-008B
50450	432224.19	1010434.46	2556.36	GCP/C-015A
50522	434924.13	1006158.81	2515.03	GCP/C-003A



NO.	BY	DATE	REVISION	APPR.	DATE

**LAS VISTAS NEIGHBORHOOD
MAIN REPLACEMENT PH II**

FOR
INFORMATION

ONLY

SURVEY CONTROL SHEET

DESIGNED BY: ROGELIO G-P	DATE: 10/24	SURVEY REQUEST NO: SR3545	SHEET 17 OF 17
DRAWN BY: K PENDERGAST	DATE: 10/24	SCALE: VERT: NO SCALE HORIZ: 1"=100'	PLAN NO: 1-016-2023
CHECKED BY: G WRIGHT	DATE: 10/24		