

OWNER  
 ROOSEVELT IRRIGATION DISTRICT  
 103 W BASELINE ROAD  
 BUCKEYE, ARIZONA 85326  
 623.386.2046  
 ATTN: DONOVAN NEESE  
 EMAIL: DNEESE@ROOSEVELTIRRIGATION.ORG  
 OWNER'S ENGINEER

STANTEC CONSULTING SERVICES INC.  
 3133 W FRYE ROAD, SUITE 300  
 CHANDLER, ARIZONA 85226  
 480.687.6100  
 ATTN: CAMERON SMITH, PE  
 EMAIL: CAMERON.SMITH@STANTEC.COM  
 OWNER'S CONSTRUCTION OBSERVER

STANTEC CONSULTING SERVICES, INC.  
 3133 W FRYE ROAD, SUITE 300  
 CHANDLER, ARIZONA 85226  
 602.284.7017

SPONSOR  
 ARIZONA DEPARTMENT OF TRANSPORTATION  
 205 S 17TH AVE, MD 614E  
 PHOENIX, AZ 85007  
 602.712.4046  
 ATTN: TRICIA BROWN, PE  
 TBROWN2@ADOT.GOV

SPONSOR'S ENGINEER  
 STANLEY CONSULTANTS  
 3133 E CAMELBACK RD, SUITE 100  
 PHOENIX, AZ 85016  
 602.228.5378  
 ATTN: DIANA KELLY  
 KELLYDIANA@STANLEYGROUP.COM



# ADOT LOOP 303 - PACKAGE 2

## LATERAL 8EL & 8WW

### 1 5/8 N-8W TO 2 1/4 N-7 1/2W

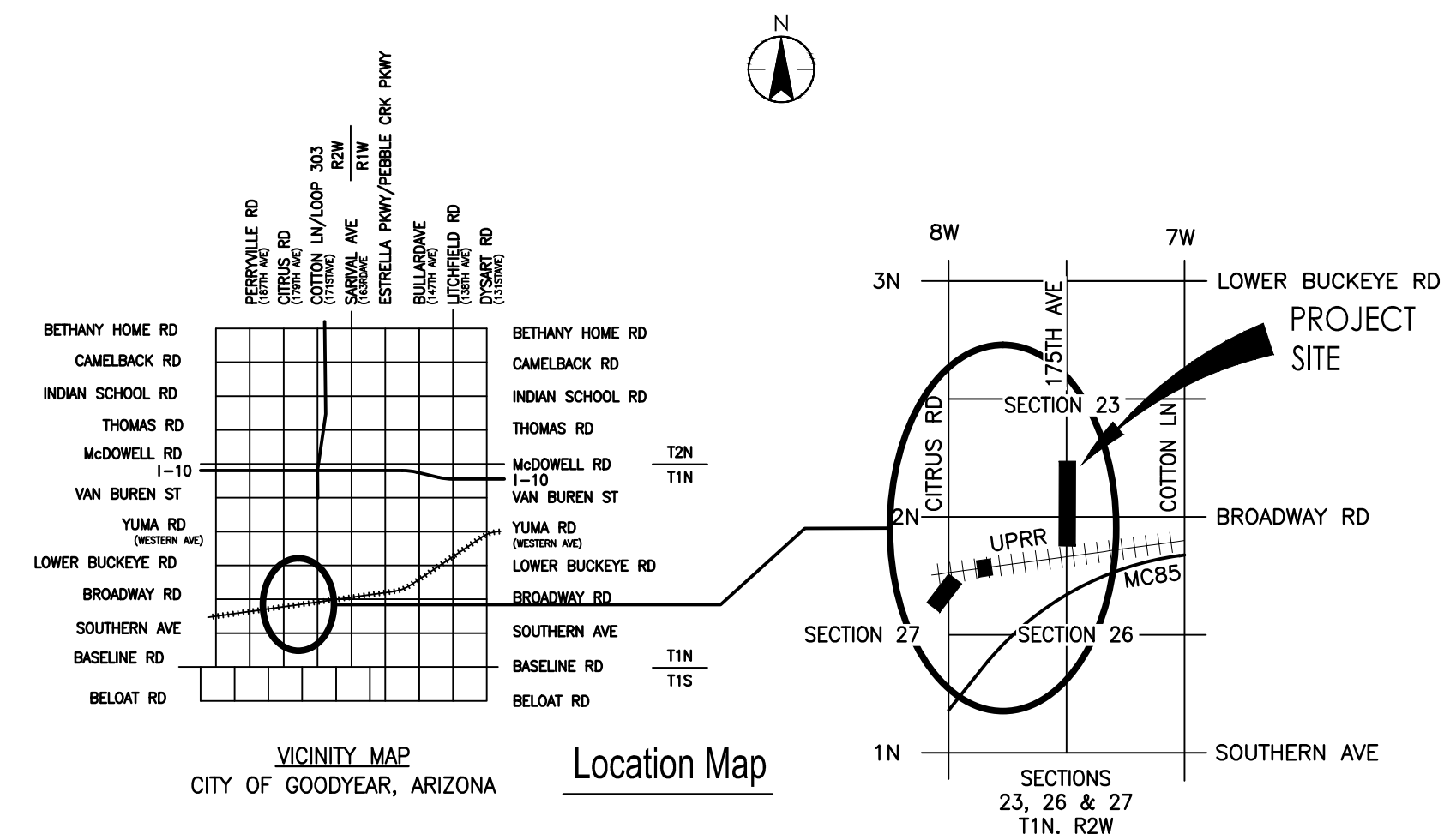
## FACILITIES RELOCATION

### SECTIONS 23, 26 & 27 T1N, R2W

## MARCH 2026

## PROJECT NUMBER: 181301643

DRAWING No	SHEET No	SHEET TITLE
1	G-1	COVER
2	G-2	OVERALL KEY MAP
3	G-3	GEOMETRIC SURVEY CONTROL
4	G-4	HORIZONTAL ALIGNMENT CONTROL
5	G-5	HORIZONTAL CONSTRUCTION CONTROL - ALIGNMENT LINE & CURVE TABLES
6	G-6	GENERAL NOTES & ABBREVIATIONS
7	R-1	LATERAL 8WW - REMOVALS
8	R-2	LATERAL 8EL - REMOVALS
9	R-3	LATERAL 8EL - REMOVALS
10	P-1	LATERAL 8WW - PLAN & PROFILE
11	P-2	LATERAL 8WW - PLAN & PROFILE
12	P-3	LATERAL 8EL - PLAN & PROFILE
13	P-4	LATERAL 8EL - PLAN & PROFILE
14	P-5	LATERAL 8EL - PLAN & PROFILE
15	S-1	CONCRETE DETAILS
16	S-2	MANHOLE DETAILS
17	S-3	5-SIDED MANHOLE DETAILS
18	D-1	TYPICAL SECTIONS & DETAILS I
19	D-2	TYPICAL SECTIONS & DETAILS II



VICINITY MAP  
 CITY OF GOODYEAR, ARIZONA  
 Location Map

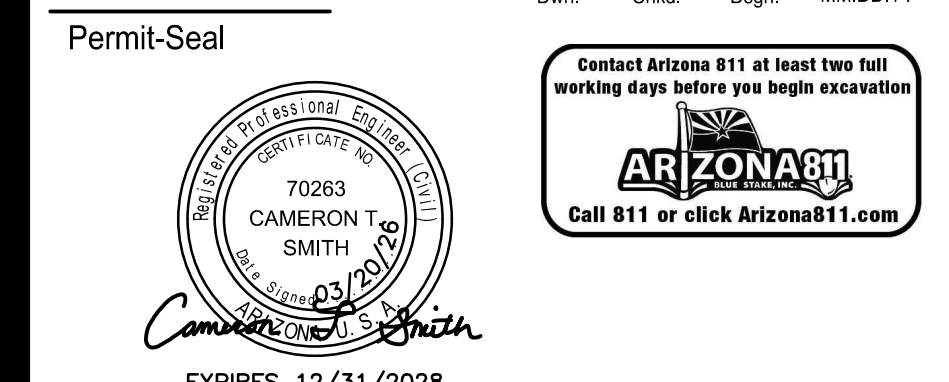
ROOSEVELT IRRIGATION DISTRICT APPROVAL  
 THE DISTRICT APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS OR OMISSIONS  
  
 CAMERON T. SMITH  
 ROOSEVELT IRRIGATION DISTRICT  
 03/20/2026  
 DATE

**DATA CERTIFICATION**  
 I HEREBY CERTIFY THAT THIS DESIGN IS BASED ON ACCURATE FIELD DATA WHICH HAS BEEN CHECKED IN THE FIELD PRIOR TO SUBMISSION OF THESE PLANS TO THE CITY FOR APPROVAL.  
  
 EXPIRES 12/31/2028

**AS-BUILT CERTIFICATION**  
 I HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION SHOWN HEREON WAS OBTAINED UNDER MY DIRECT SUPERVISION AND IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.



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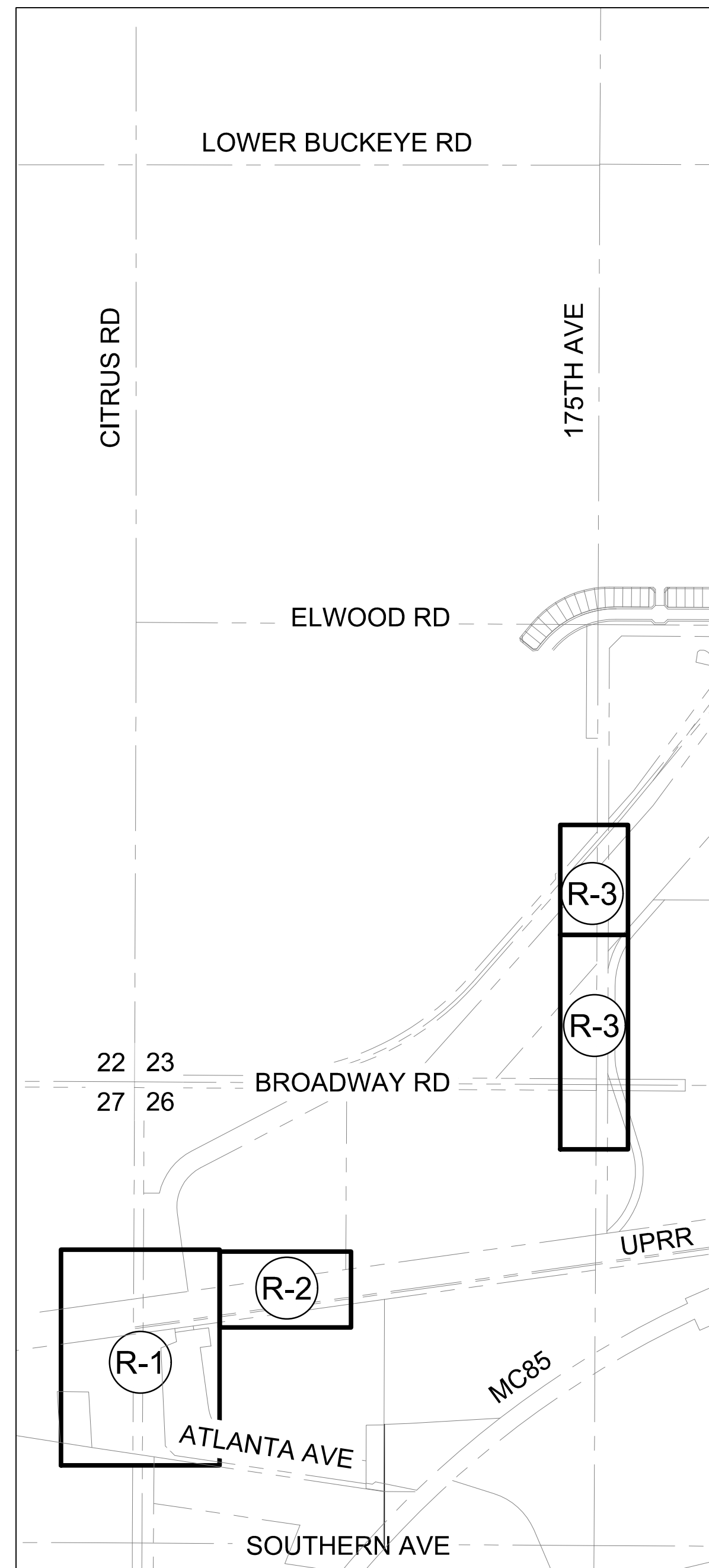
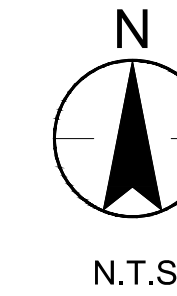


Client/Project  
 ROOSEVELT IRRIGATION DISTRICT  
 LATERAL 8EL & 8WW  
 ADOT LOOP 303  
 PACKAGE 2  
 Goodyear, Arizona

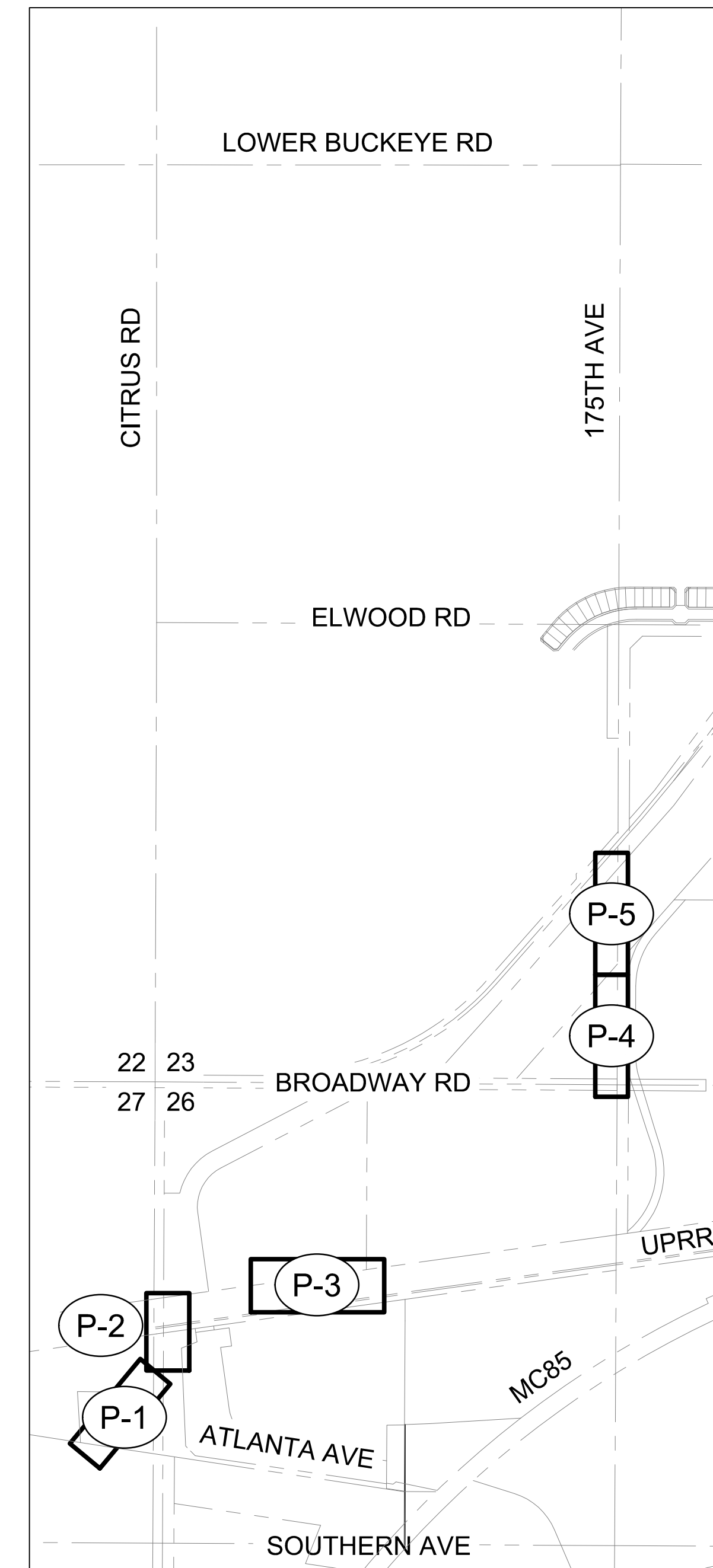
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 COVER  
 Project No. 181301643  
 Scale NONE  
 Drawing No. G-1  
 Sheet 1 of 19  
 Revision 0

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181301643 ROOSEVELT IRRIGATION DISTRICT LATERAL 8EL & 8WW - FACILITIES RELOCATION - ADOT LOOP 303-PACKAGE 2



REMOVAL SHEETS



PLAN & PROFILE SHEETS

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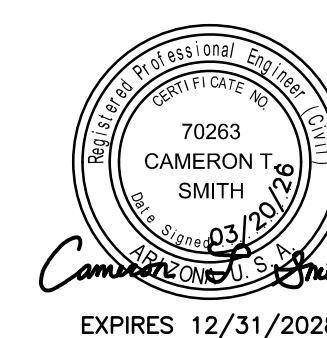


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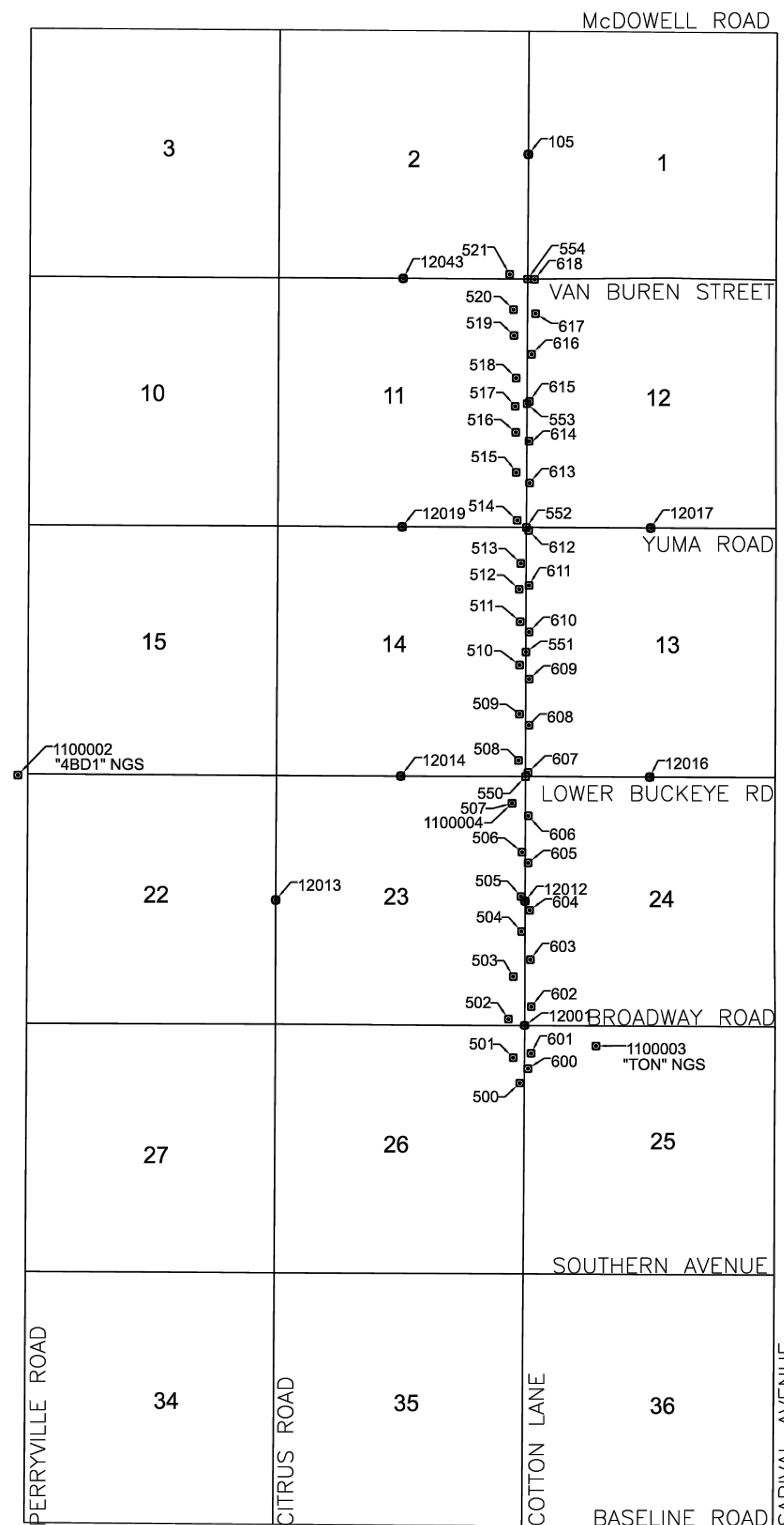
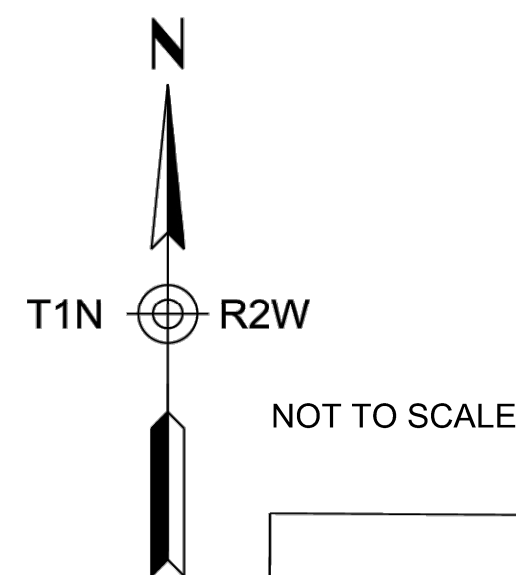
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Client/Project  
 ROOSEVELT IRRIGATION DISTRICT  
 LATERAL 8EL & 8WW  
 ADOT LOOP 303  
 PACKAGE 2  
 Goodyear, Arizona

Title  
 OVERALL KEY MAP

Project No. 181301643	Scale NONE
Drawing No. G-2	Sheet 2 of 19
	Revision 0



### SECONDARY BENCHMARKS - GROUND COORDINATES

105	894496.984	544500.063	1008.810	BCHH
500	874747.898	544315.342	907.529	SCR X CPT
501	875286.394	544173.842	910.094	AC CPT
502	876120.287	544074.354	917.870	AC CPT
503	877023.567	544175.983	920.245	AC CPT
504	877980.294	544350.613	922.716	AC CPT
505	878724.815	544342.204	927.117	AC CPT
506	879663.936	544364.755	931.211	AC CPT
507	880703.599	544151.967	935.907	AC CPT
508	881614.405	544288.100	942.037	AC CPT
509	882598.394	544309.134	949.557	AC CPT
510	883638.841	544311.359	950.568	AC CPT
511	884559.605	544323.503	957.072	AC CPT
512	885247.076	544302.084	960.867	AC CPT
513	885796.094	544337.368	960.606	AC CPT
514	886711.067	544260.820	967.697	AC CPT
515	887727.057	544238.115	971.423	AC CPT
516	888592.602	544230.122	976.183	AC CPT
517	889146.655	544218.558	980.447	AC CPT
518	889745.504	544237.401	983.173	AC CPT
519	890647.266	544192.724	988.120	AC CPT
520	891198.944	544182.656	990.405	AC CPT
521	891948.127	544101.393	991.487	AC CPT
550	881270.263	544436.697	938.270	BC 1.5' DN
551	883914.985	544445.681	951.960	CALCULATED
552	886558.759	544455.131	966.020	CALCULATED
553	889204.203	544469.978	979.540	CALCULATED
554	891849.534	544484.841	991.320	CALCULATED
600	875054.797	544487.774	912.522	CPT AC
601	875377.839	544554.645	912.281	CPT AC
602	876383.770	544559.037	913.835	CPT AC
603	877382.492	544539.238	919.853	CPT AC
604	878431.781	544523.858	925.004	CPT AC
605	879436.409	544492.747	931.143	CPT AC
606	880437.205	544495.464	933.300	CPT AC
607	881356.541	544490.263	940.261	CPT AC
608	882360.197	544508.667	944.998	CPT AC
609	883338.773	544514.150	949.406	CPT AC
610	884340.410	544513.164	954.474	CPT AC
611	885328.526	544511.346	962.644	CPT AC
612	886498.527	544502.298	965.580	CPT AC
613	887502.682	544522.688	971.848	CPT AC
614	888405.063	544512.379	975.337	CPT AC
615	889250.409	544522.157	980.074	CPT AC
616	890250.515	544564.705	981.470	CPT AC
617	891115.855	544650.495	989.076	CPT AC
618	891841.306	544632.395	993.788	CPT AC
12001	875981.159	544419.645	914.519	BCHH
12012	878625.731	544428.368	926.538	BCFL
12013	878651.128	539130.030	925.303	BCFL
12014	881281.157	541790.680	951.072	MAG WSHR
12016	881259.949	547080.051	946.595	BCHH
12017	886547.317	547101.996	965.351	BCHH
12019	886573.162	541820.435	976.658	BCFL
12043	891863.440	541841.048	998.484	BCFL
1100002	881302.06	533647.81	944.75	"4BD1" NGS
1100003	875534.92	545935.20	910.29	"TON" NGS

### CONTROL NOTES

- ALL COORDINATES LISTED ARE 1983 (1992 EPOCH) STATE PLANE GROUND COORDINATES ARIZONA CENTRAL ZONE, STANDARD TRANSVERSE MERCATOR PROJECTION, WITH A SCALE OF ORIGIN POINT OF X=0.0000 Y=0.0000, USING A GRID ADJUSTMENT FACTOR OF 1.00016. THESE COORDINATES CAN BE UTILIZED AS GROUND DATUM. TO CONVERT BACK TO GRID COORDINATES DIVIDE EACH COORDINATE VALUE BY 1.00016.
- UNITS = INTERNATIONAL FEET  
1 FOOT = 0.3048 METER EXACTLY
- ALL BEARINGS ARE GRID BEARINGS; DISTANCES ARE GROUND DISTANCES AND COORDINATES ARE GROUND COORDINATES.
- THE COORDINATES PRESENTED ON THIS SURVEY ARE SHOWN TO FOUR DECIMAL PLACES FOR CALCULATION PURPOSES AND ARE NOT REPRESENTATIVE OF THE PRECISION OF THE SURVEY MEASUREMENTS.
- THE FIELD PORTION OF THIS SURVEY WAS PERFORMED DURING THE MONTH OF APRIL 2024.
- THE BASIS OF COORDINATES AND ELEVATIONS FOR THIS PROJECT ARE FROM NATIONAL GEODETIC SURVEY DATASHEETS PUBLISHED FOR THE FOLLOWING MONUMENTS:

Name	CONTROL POINT #1 - TON
Monument Type	SURVEY DISK
NAD 83 (2011) Lat	33° 24' 19.34711" (N)
NAD 83 (2011) Long	112° 25' 18.50842" (W)
Ground Northing	875534.92
Ground Easting	545935.20
NAVD88 Elev.	910.00

Name	CONTROL POINT #2 - 4BD1
Monument Type	METAL ROD
NAD 83 (2011) Lat	33° 25' 15.78267" (N)
NAD 83 (2011) Long	112° 27' 43.78834" (W)
Ground Northing	881301.92
Ground Easting	533647.81
NAVD88 Elev.	944.72

NAME	4CC4	4CA4
MONUMENT TYPE	METAL ROD	METAL ROD
NAD 83(92) LAT	33° 27' 41.02666"N	33° 27' 33.82380"N
NAD 83(92) LONG	112° 24' 33.04914"W	112° 18' 22.47609"W
E. HT.	923.33 FT.	921.39 FT.
GROUND NORTHING	895903.5712	895042.1928
GROUND EASTING	549885.9692	581281.1862
NAVD 88 O. HT.	1023.00 FT.	1021.00 FT.



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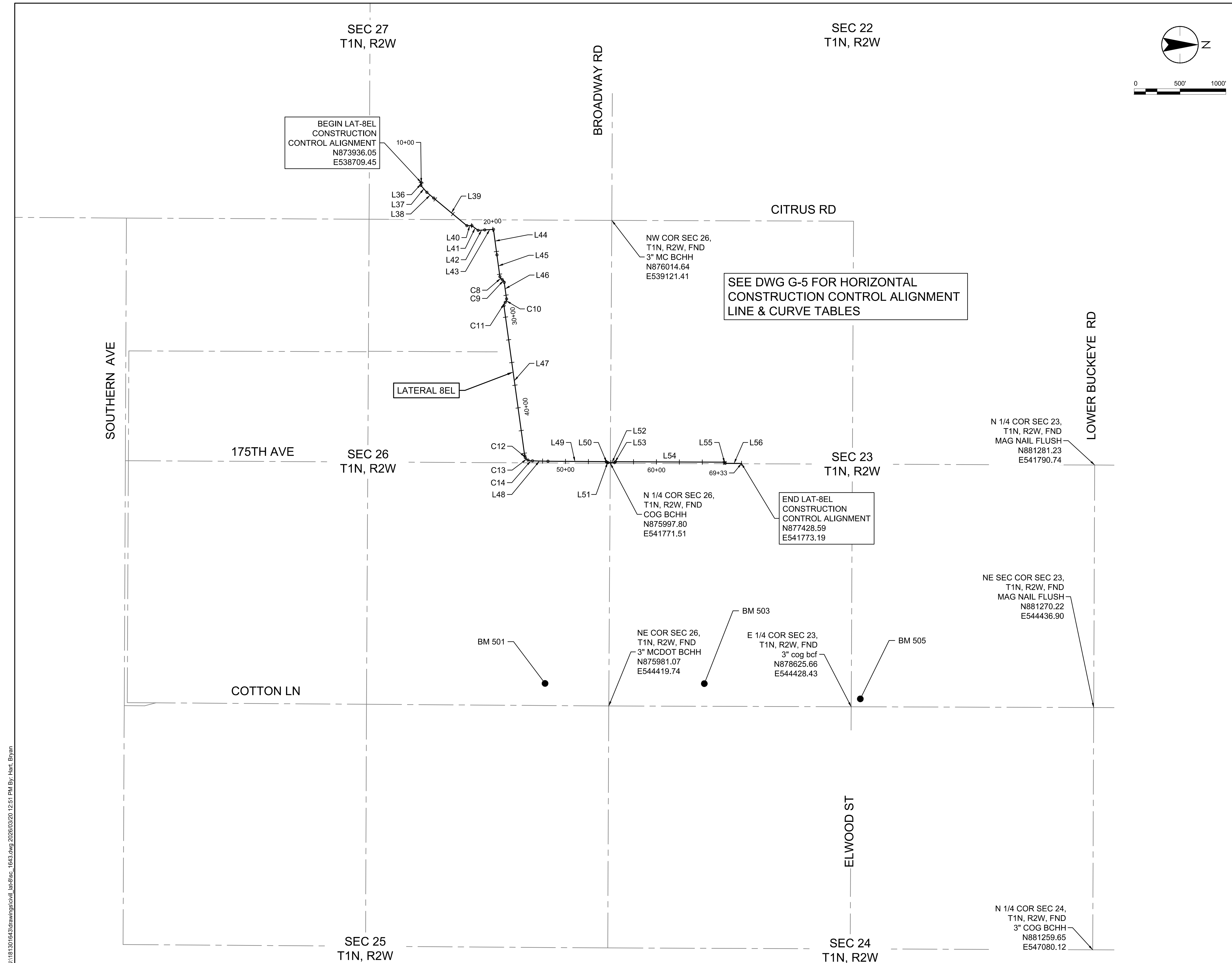
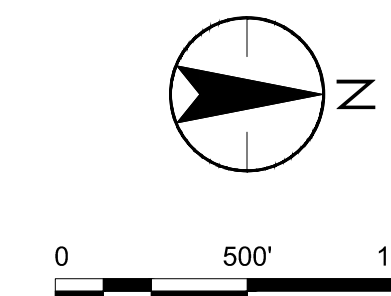
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Expires 12/31/2028

Client/Project  
ROOSEVELT IRRIGATION DISTRICT  
LATERAL 8EL & 8WW

ADOT LOOP 303  
PACKAGE 2  
Goodyear, Arizona

Title GEOMETRIC SURVEY CONTROL			
Project No.	Scale		
181301643	AS SHOWN		
Drawing No.	Sheet	Revision	
G-3	3 of 19	0	



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CAMERON T.  
SMITH  
03/20/26  
Expires 12/31/2028

Client/Project  
ROOSEVELT IRRIGATION DISTRICT  
LATERAL 8EL & 8WW  
ADOT LOOP 303  
PACKAGE 2  
Goodyear, Arizona

Title  
HORIZONTAL ALIGNMENT CONTROL

Project No. 181301643	Scale 1" = 500'
Drawing No. G-4	Sheet 4 of 19
	Revision 0

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HORIZONTAL CONSTRUCTION CONTROL ALIGNMENT LAT-8EL											
LINE/CURVE	BEARING	LENGTH	START NORTHING	START EASTING	END NORTHING	END EASTING	DELTA	ARC LENGTH	RADIUS	CHORD DIRECTION	CHORD LENGTH
L36	S81°21'47"E	29.21	873936.05	538709.45	873931.67	538738.32					
L37	N49°39'55"E	100.86	873931.67	538738.32	873996.95	538815.21					
L38	N39°50'56"E	97.22	873996.95	538815.21	874071.59	538877.50					
L39	N39°47'55"E	470.62	874071.59	538877.50	874433.16	539178.74					
L40	N00°16'40"E	54.45	874433.16	539178.74	874487.61	539179.00					
L41	N36°55'09"E	85.95	874487.61	539179.00	874556.33	539230.63					
L42	N04°28'01"W	71.92	874556.33	539230.63	874628.03	539225.03					
L43	N03°24'39"W	96.18	874628.03	539225.03	874724.04	539219.31					
L44	N82°24'21"E	280.93	874724.04	539219.31	874761.16	539497.78					
L45	N82°07'49"E	239.70	874761.16	539497.78	874793.98	539735.22					
C8			874793.98	539735.22	874817.69	539766.44	058°41'02"	40.97	40.00	N52°47'18"E	39.20
C9			874817.69	539766.44	874841.40	539797.64	058°38'49"	40.94	40.00	N52°46'12"E	39.18
L46	N82°05'37"E	182.63	874841.40	539797.64	874866.52	539978.53					
C10			874866.52	539978.53	874852.12	540015.08	058°49'10"	41.06	40.00	S68°29'49"E	39.28
C11			874852.12	540015.08	874837.71	540051.60	058°46'57"	41.04	40.00	S68°28'42"E	39.26
L47	N82°06'37"E	1655.16	874837.71	540051.60	875064.91	541691.09					
C12			875064.91	541691.09	875071.43	541711.88	017°51'55"	21.87	70.14	N72°35'17"E	21.78
C13			875071.43	541711.88	875099.81	541736.91	044°28'45"	38.82	50.00	N41°24'23"E	37.85
C14			875099.81	541736.91	875148.53	541745.73	017°48'02"	49.71	160.00	N10°16'00"E	49.51
L48	N01°16'02"E	169.84	875148.53	541745.73	875318.33	541749.49					
L49	N00°24'30"E	634.99	875318.33	541749.49	875953.31	541754.02					
L50	N49°23'16"E	9.43	875953.31	541754.02	875959.45	541761.17					
L51	N11°37'39"E	15.01	875959.45	541761.17	875974.15	541764.20					
L52	N00°15'57"E	69.63	875974.15	541764.20	876043.78	541764.52					
L53	N44°44'03"W	14.34	876043.78	541764.52	876053.96	541754.43					
L54	N00°15'47"E	1185.54	876053.96	541754.43	877239.49	541759.87					
L55	N45°00'00"E	17.15	877239.49	541759.87	877251.62	541772.00					
L56	N00°23'03"E	177.97	877251.62	541772.00	877429.59	541773.19					

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70263  
CAMERON T.  
SMITH  
03/20/26  
EXPIRES 12/31/2028

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

Call 811 or click Arizona811.com

Client/Project  
 ROOSEVELT IRRIGATION DISTRICT  
 LATERAL 8EL & 8WW

ADOT LOOP 303  
 PACKAGE 2  
 Goodyear, Arizona

Title  
 HORIZONTAL  
 CONSTRUCTION CONTROL ALIGNMENT  
 LINE & CURVE TABLES

Project No. 181301643	Scale NONE
Drawing No. G-5	Sheet 5 of 19
	Revision 0

**ROOSEVELT IRRIGATION DISTRICT (RID)  
GENERAL NOTES (revised 12-20-23):**

- THE CONSTRUCTION CONTRACT SPECIFICATIONS FOR ALL PORTIONS OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SPONSORED AND DISTRIBUTED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) (LATEST EDITION), EXCEPT AS NOTED, INCLUDING REVISIONS AND CORRECTIONS.
- ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN THE DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE OWNER'S ENGINEER, IN WRITING, WHO WILL PROMPTLY REVIEW AND RESPOND IN WRITING. WITHOUT NOTIFICATION, WORK DONE BY THE CONTRACTOR AFTER THE DISCOVERY OF SUCH DISCREPANCIES, WILL BE DONE AT THE CONTRACTOR'S RISK.
- THE OWNER'S ENGINEER AND/OR OWNER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO.
- THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE TO THE OWNER'S ENGINEER FOR APPROVAL AND IS TO NOTIFY THE OWNER'S ENGINEER 14 CALENDAR DAYS IN ADVANCE OF EACH CONSTRUCTION PHASE SO AS TO FACILITATE CONSTRUCTION OBSERVATION SCHEDULING.
- THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW BY THE OWNER'S ENGINEER, AS MAY BE NECESSARY FOR THE EXECUTION OF THE WORK AND AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.
- THE DEVELOPER'S ENGINEER AND/OR CONTRACTOR SHALL STAKE CONSTRUCTION AND/OR STREET(S) CENTERLINE, BACK OF CURBS, AND RIGHT-OF-WAY LINES REQUIRED FOR PROPER EXECUTION AND VERIFICATION OF THE WORK. REFERENCE STAKING SHALL BE MAINTAINED BY THE DEVELOPER'S ENGINEER AND/OR CONTRACTOR FOR THE DURATION OF RID FACILITIES CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL PERMIT(S) REQUIRED FOR WORK WITHIN PUBLIC AGENCY RIGHT-OF-WAY PRIOR TO THE START OF CONSTRUCTION.
- STATIONS SHOWN ARE APPROXIMATE AND MAY BE VARIED AS DIRECTED BY THE OWNER'S ENGINEER.
- ALL LOW HEAD IRRIGATION PIPE SHALL BE RGRCP IN ACCORDANCE WITH ASTM C-76 CLASS III, WALL B AND ASTM C-443 UNLESS OTHERWISE NOTED.
- PRIOR TO THE BACKFILLING OF ALL IRRIGATION FACILITIES, THE CONTRACTOR SHALL CONDUCT TESTING PER MAG STD SPECIFICATION 611.4. ACCEPTABLE PIPE TESTING METHODS ARE AS FOLLOWS:  
MAG SEC 611.4(A) - LOW PRESSURE AIR TEST  
MAG SEC 611.4(B) - HYDROSTATIC TEST MODIFIED AS FOLLOWS:  
REVISE NOTE (3) OF THE TESTING PROCEDURE IN MAG SEC 611.4(B) TO READ:  
"(3) A PERIOD OF AT LEAST 24 HOURS WILL BE ALLOWED FOR ABSORPTION TIME BEFORE MAKING THE TEST".
- GENERALLY, CONTRACTOR SHALL SCARIFY, ADD MOISTURE, AND COMPACT SUBGRADE BEFORE ADDITIONAL SOIL LIFTS OR STRUCTURE BASE COURSE. HOWEVER, UNEXPECTED OR UNSUITABLE SUBGRADE CONDITIONS FOUND SHALL BE COORDINATED AND ADDRESSED WITH THE PROJECT SPONSOR'S GEOTECHNICAL ENGINEER FOR APPROVAL PRIOR TO SUBGRADE PREPARATION AND BACKFILL ACTIVITIES.
- THE CONTRACTOR SHALL CONTACT THE OWNER'S CONSTRUCTION OBSERVER AS NOTED ON DRAWING G-1 FOR IRRIGATION SYSTEM DRY-UP SCHEDULING.
- EXISTING RID FACILITIES MUST REMAIN OPERATIONAL AND SHALL NOT BE DISTURBED OR RENDERED INACCESSIBLE TO RID OPERATIONS AND MAINTENANCE STAFF UNTIL THE CONSTRUCTION OF THE NEW RID FACILITIES HAS BEEN COMPLETED AND ACCEPTED BY RID.
- THE USE OF TEMPORARY IRRIGATION BYPASS FACILITIES TO FACILITATE THE DEMOLITION OF EXISTING RID FACILITIES PRIOR TO THE COMPLETION OF THE NEW FACILITIES REQUIRES PRIOR APPROVAL FROM RID. RID MAY REQUIRE THE CONTRACTOR TO SUBMIT SEALED ENGINEERING PLANS FOR THE BYPASS. THE TEMPORARY BYPASS SHALL PROCEED ONLY AFTER THE CONSTRUCTED BYPASS HAS BEEN FIELD VERIFIED AND ACCEPTED BY RID.
- ALL EXISTING IRRIGATION FACILITIES DISTURBED BY NEW CONSTRUCTION SHALL BE RECONSTRUCTED TO CURRENT RID STANDARDS.
- THE CONTRACTOR SHALL MAINTAIN AND SUBMIT A REVISED SET OF THE PROJECT DRAWING(S) THAT REFLECT "AS-BUILT" CONDITION OF THE PROJECT CONSTRUCTION UPON COMPLETION OF THE PROJECT OR A PARTICULAR JOB AND AS-BUILTS SHALL BE SUBMITTED WITHIN TWO WEEKS OF SUBSTANTIAL COMPLETION/COMMISSIONING. THE AS-BUILTS SHALL REFLECT ALL CHANGES MADE IN THE WORKING DRAWINGS AND/OR SPECIFICATION VARIANCES DURING THE CONSTRUCTION PROCESS, AND SHALL SHOW THE EXACT DIMENSIONS, GEOMETRY, LOCATION AND ELEVATION OF ALL ELEMENTS OF THE WORK COMPLETED UNDER CONTRACT. AS-BUILTS AS DEFINED INCLUDE PROVIDING THE OWNER WITH A PDF SET OF AS-BUILT DRAWINGS AND ANY NOTES REGARDING VARIANCES TO MAG SPECIFICATIONS. AS-BUILTS MAY BE PDF EDITOR VERSIONS OF THE FIELD DOCUMENTS, BUT MAY ALSO BE PDF COPIES OF HAND-EDITED DRAWINGS, PROVIDED THEY ARE CLEAR AND LEGIBLE.
- UPON COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT OWNER'S CONSTRUCTION OBSERVER TO OBTAIN A LETTER OF ACCEPTANCE.
- TRACER WIRE SHALL BE 12-AWG SOLID, PRO-TRACE HF-CCS PE30, SHALL BE COLOR PURPLE AND RATED FOR DIRECT BURIAL USE. NO SPLICING ALLOWED. SEE DRAWING D-1.
- ANY LOCATION SHOWING CONFLICT BETWEEN RID STRUCTURE AND SIDEWALK TO BE ADDRESSED IN PROJECT SPONSOR'S PLANS TO MEANDER AROUND RID STRUCTURE.

**ROOSEVELT IRRIGATION DISTRICT  
UTILITY LOCATION / RELOCATION  
NOTES (revised 03-20-23):**

- ATTENTION IS CALLED TO THE EXISTENCE OF UTILITY LINES INCLUDING, BUT NOT LIMITED TO BURIED/OVERHEAD GAS, WATER, TELEPHONE, AND ELECTRICAL WITHIN THE PROJECT LIMITS. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE LOCATION AND PROTECTION OF ALL EXISTING FACILITIES, BURIED OR OVERHEAD, DURING THE CONSTRUCTION OPERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES OR INJURY OF ANY NATURE DONE BY EXECUTION OF THE WORK AND SHALL RESTORE SUCH UTILITIES TO A CONDITION SIMILAR OR EQUAL TO THEIR CONDITION BEFORE SUCH DAMAGE OR INJURY WAS DONE BY REPAIR AND/OR REPLACEMENT IN AN ACCEPTABLE MANNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ANY AFFECTED UTILITY.
- THE EXISTING UTILITIES IDENTIFIED ON THE PLANS MAY NOT REPRESENT ALL EXISTING AND/OR CONFLICTING UTILITIES WITHIN THE PROJECT LIMITS.
- THE OWNER DOES NOT GUARANTEE THE LOCATION OR ELEVATION OF UTILITIES AND WILL NOT BE RESPONSIBLE FOR THEIR RELOCATION.
- THE CONTRACTOR SHALL CONTACT BLUE STAKE, (602)263-1100, AND SUCH OTHER LOCATORS/UTILITIES AS NEEDED TO LOCATE AND FLAG ALL EXISTING UNDERGROUND UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE LOCATION AND ELEVATION OF ALL FLAGGED UTILITIES ARE TO BE FIELD VERIFIED PRIOR TO THE CONSTRUCTION OF RID FACILITIES.
- ANY EXISTING UTILITY THAT IS IN CONFLICT WITH PROPOSED RID FACILITIES MUST BE RELOCATED PRIOR TO CONSTRUCTION OF THE RID FACILITIES TO PROVIDE A MINIMUM CLEARANCE OF ONE FOOT VERTICALLY (BELOW) AND TWO FEET HORIZONTALLY (OUTSIDE DIAMETER TO OUTSIDE DIAMETER).
- THE DEVELOPER IS SOLELY RESPONSIBLE FOR THE COORDINATION AND COST OF RELOCATION OF THE UTILITY AND SHALL CONTACT THE UTILITY OWNER DIRECTLY FOR INFORMATION REGARDING RELOCATION REQUIREMENTS.
- ALL PROPOSED UTILITIES MUST PROVIDE A MINIMUM CLEARANCE OF ONE FOOT VERTICALLY (BELOW) AND TWO FEET HORIZONTALLY (OUTSIDE DIAMETER TO OUTSIDE DIAMETER) FROM PROPOSED RID FACILITIES.
- POTABLE WATER AND STORM DRAINAGE UTILITIES CROSSING BENEATH RID FACILITIES SHALL FOLLOW M.A.G. STD. DTL. 404.

**ROOSEVELT IRRIGATION DISTRICT  
GRADING NOTES (revised 10-01-24):**

- THE CONTRACTOR SHALL PROVIDE SMOOTH AND EVENLY GRADED FINISHED GROUND SURFACES ABOUT ALL RID FACILITIES WITHIN THE PROJECT AREA.
- ALL FINISHED GRADING ABOUT RID FACILITIES SHALL BE COMPLETED TO THE SATISFACTION OF THE OWNER'S ENGINEER. AT THE DIRECTION OF THE OWNER'S ENGINEER, THE CONTRACTOR SHALL REGRADE FINISHED SURFACES TO MEET THIS REQUIREMENT.
- THE CONTRACTOR SHALL IMPORT ADDITIONAL FILL MATERIAL OR EXPORT EXCESS CUT MATERIAL AS REQUIRED TO PROVIDE SATISFACTORY FINISHED GRADING ABOUT THE RID FACILITIES AS SHOWN ON THESE DRAWINGS AND/OR AS DIRECTED BY THE OWNER'S CONSTRUCTION OBSERVER AND/OR ENGINEER.
- FINISHED SURFACES SHALL BE GRADED TO DIRECT DRAINAGE AWAY FROM RID FACILITIES.
- O&M ROADS SHALL BE CONSTRUCTED WITH A MINIMUM ELEVATION 6" ABOVE ADJACENT FIELDS AND A 2% CROSS SLOPE UNLESS OTHERWISE NOTED.
- O&M ROADS ADJACENT TO CANAL PRISM SHALL BE CONSTRUCTED WITH A MINIMUM ELEVATION 6" ABOVE ADJACENT FIELD AND A 2% CROSS SLOPE AWAY FROM CANAL PRISM AREA UNLESS OTHERWISE NOTED.

**CITY OF GOODYEAR GENERAL NOTES FOR  
CONSTRUCTION (08-2017) CONTINUED:**

- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
- ALL CONSTRUCTION SHALL CONFORM TO THE CITY ENGINEERING DESIGN STANDARDS AND POLICIES MANUAL (EDS&PM), CITY STANDARD DETAILS, AND CURRENT MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION.
- THIS SET OF PLANS HAS BEEN REVIEWED FOR COMPLIANCE WITH CITY REQUIREMENTS PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS. HOWEVER, SUCH REVIEW SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN PLANS FOUND TO BE IN VIOLATION OF ANY LAW OR ORDINANCE.
- THE CITY DOES NOT WARRANT ANY QUANTITIES SHOWN ON THESE PLANS.
- THE CITY APPROVAL IS FOR GENERAL LAYOUT IN THE RIGHT-OF-WAY ONLY. THIS APPROVAL IS VALID FOR A PERIOD OF ONE YEAR. CONSTRUCTION PERMITS SHALL BE OBTAINED DURING THIS PERIOD OR THE PLANS SHALL BE RESUBMITTED FOR REVIEW AND APPROVAL.
- AN APPROVED SET OF PLANS SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES.
- THE CITY CONSTRUCTION INSPECTOR SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONSTRUCTION WORK AND INSPECTIONS (623-932-3004). CONSTRUCTION WORK CONCEALED WITHOUT INSPECTION BY THE CITY CONSTRUCTION INSPECTOR SHALL BE SUBJECT TO EXPOSURE AT THE CONTRACTOR'S EXPENSE.
- ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE CITY ENGINEER, OR DESIGNEE, AND ANY WORK/MATERIAL NOT IN CONFORMANCE WITH CITY ENGINEERING STANDARDS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- RIGHT-OF-WAY IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL "AS-BUILT" PLANS HAVE BEEN SUBMITTED AND APPROVED BY THE CITY. (SEE AS-BUILT REQUIREMENTS)

**CITY OF GOODYEAR GENERAL NOTES FOR  
CONSTRUCTION (08-2017) CONTINUED:**

- THE DEVELOPER IS RESPONSIBLE FOR THE REMOVAL OR RELOCATION OF ALL OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY PRIOR TO STARTING NEW CONSTRUCTION.
- THE DEVELOPER IS RESPONSIBLE FOR ARRANGING THE RELOCATION AND ASSOCIATED COSTS OF ALL UTILITIES. A UTILITY RELOCATION SCHEDULE SHALL BE SUBMITTED PRIOR TO THE ISSUANCE OF PERMITS.
- THE DEVELOPER IS RESPONSIBLE FOR OBTAINING OR DEDICATING ALL REQUIRED RIGHTS-OF-WAY AND EASEMENTS TO THE CITY PRIOR TO ISSUANCE OF PERMITS.
- THE CONTRACTOR SHALL CONTACT BLUE STAKE (602-263-1100) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL LOCATE ALL CONFLICTS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BARRICADE CONSTRUCTION SITES AT ALL TIMES PER THE CITY OF PHOENIX TRAFFIC BARRICADE MANUAL. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY FOR APPROVAL IN ADVANCE OF CONSTRUCTION.
- POTABLE WATER IS NOT AVAILABLE FOR CONSTRUCTION USE OTHER THAN THE FILLING AND TESTING OF NEW LINES. THE UNLAWFUL REMOVAL OF WATER FROM A FIRE HYDRANT OR ANY OTHER SOURCE IS A VIOLATION OF THE MUNICIPAL CODE, PUNISHABLE BY FINE AND/OR IMPRISONMENT.
- PRIOR TO MOVING OR DESTROYING PROTECTED NATIVE PLANT SPECIES, THE CONTRACTOR SHALL FILE A FORMAL NOTICE OF INTENT (NOI) WITH THE ARIZONA DEPARTMENT OF AGRICULTURE (602-542-6408).
- THE CONTRACTOR SHALL COMPLY WITH THE ENVIRONMENTAL PROTECTION AGENCY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER REQUIREMENTS ESTABLISHED FOR CONSTRUCTION SITES, ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) GENERAL PERMIT FOR DISCHARGE FROM CONSTRUCTION ACTIVITIES, AND THE CITY OF GOODYEAR STORM WATER MANAGEMENT PLAN.
- NO PERSON SHALL USE ANY MECHANICAL EQUIPMENT FOR LAND LEVELING OR CLEARING, ROAD CONSTRUCTION, TRENCHING, EXCAVATING, DEMOLITION, NOR ENGAGE IN ANY EARTHMOVING ACTIVITY WITHOUT FIRST OBTAINING A PERMIT FROM THE MARICOPA COUNTY AIR QUALITY DEPARTMENT (MCAQD) (602-506-6010), 3800 N. CENTRAL AVENUE, SUITE 1400, PHOENIX, AZ 85012. (THIS NOTICE IS ISSUED PURSUANT TO ARIZONA REVISED STATUTES (ARS) 36-779.07, NOTICE OF BUILDING AGENCIES.)
- THESE PLANS REFLECT CONDITIONS AS THEY EXIST AT THE TIME OF DESIGN. IF EXISTING CONDITIONS HAVE CHANGED BY THE TIME OF CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE CITY AND THESE PLANS MAY HAVE TO BE AMENDED PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.
- ALL IMPROVEMENTS DAMAGED OR REPLACED DURING CONSTRUCTION SHALL BE REPLACED WITH IMPROVEMENTS THAT MEET THE CURRENT CITY STANDARDS.

**FCDMC GENERAL CONSTRUCTION NOTES**

- ALL WORK PERFORMED WITHIN FLOOD CONTROL DISTRICT OF MARICOPA COUNTY (DISTRICT) RIGHTS-OF-WAY (ROW) SHALL CONFORM TO THE LATEST DISTRICT STANDARD PROCEDURES AND DETAILS AS PUBLISHED ON THE DISTRICT'S WEB SITE.
- THE PERMITTEE SHALL OBTAIN A COPY OF THE EXECUTED DISTRICT ROW USE PERMIT PRIOR TO COMMENCEMENT OF WORK WITHIN DISTRICT RIGHT-OF-WAY, MAINTAIN A COPY OF THE PERMIT AND STAMPED APPROVED PLANS ON THE PROJECT SITE AT ALL TIMES, AND SHALL BE AVAILABLE UPON REQUEST.
- THE PERMITTEE SHALL NOTIFY THE DISTRICT'S ASSIGNED OPERATIONS AND MAINTENANCE (O&M) INSPECTOR OR DAM SAFETY INSPECTOR AT LEAST 48 HOURS IN ADVANCE PRIOR TO ANY EXCAVATION, BACKFILL, SLURRY, CONCRETE, AND/OR RIPRAP PLACEMENT BEING PERFORMED WITHIN THE DISTRICT'S ROW. REFER TO THE EXECUTED DISTRICT PERMIT FOR THE O&M INSPECTOR'S CONTACT INFORMATION. IF WORK IS IMPACTING A DISTRICT LEVEE, DAM OR FLOOD RETARDING STRUCTURE (FRS), REFER TO THE EXECUTED DISTRICT PERMIT FOR THE LEVEE/DAM SAFETY INSPECTOR'S CONTACT INFORMATION.
- THE PERMITTEE PERFORMING EXCAVATION OPERATIONS IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES. TO EXPEDITE THIS PROCESS, THE PERMITTEE SHALL CALL ARIZONA 811 (FORMALLY ARIZONA BLUE STAKE) AT 811 OR 1-800-782-5348 TO IDENTIFY UNDERGROUND UTILITIES AT LEAST 48 HOURS IN ADVICE PRIOR TO START OF THE WORK.
- ANY DAMAGE OR DISTURBANCE TO DISTRICT STRUCTURES, EQUIPMENT, MATERIALS, VEGETATION, OR SURROUNDING DISTRICT ROW SHALL BE REPLACED OR REPAIRED, IN-KIND, TO THE SATISFACTION OF THE DISTRICT'S O&M INSPECTOR OR LEVEE/DAM SAFETY INSPECTOR.
- IN THE EVENT THE TERMS AND CONDITIONS IN THE DISTRICT'S PERMIT ARE NOT CONSISTENT WITH THE DISTRICT-APPROVED PLANS, THE DISTRICT'S PERMIT WILL HAVE PRECEDENCE.
- IN ORDER TO CLOSE OUT THE DISTRICT'S PERMIT AND RELEASE PERFORMANCE BONDS, ALL WORK (INCLUDED ASSOCIATED PUNCH-LIST ITEMS) MUST BE COMPLETED IN FULL TO THE SATISFACTION OF THE DISTRICT'S INSPECTOR AND ENGINEER. CERTIFIED AS-BUILT PLANS ALONG WITH REQUIRED QUALITY ASSURANCE TESTS MUST BE PROVIDED AND ACCEPTED BY THE DISTRICT, AND ALL EASEMENTS REQUIRED BY THE PROJECT MUST BE RECORDED PRIOR TO PERMIT CLOSEOUT. IF THE WORK ONLY INVOLVES GEOTECHNICAL ANALYSIS, SITE INVESTIGATIONS, SURVEYS, OR FLOOD RELATED STUDIES, THEN FINALIZED REPORTS, STUDIES AND/OR SURVEY PLANS MUST BE PROVIDED AND ACCEPTED BY THE DISTRICT PRIOR TO PERMIT CLOSEOUT.

**SUPPLEMENTAL ABBREVIATIONS TO MAG  
(2023 edition)**

AB	AS-BUILT
BOT	BOTTOM
B/C	BACK OF CURB
BCHH	BRASS CAP IN HAND HOLE
BWDCD	BUCKEYE WATER CONSERVATION AND DRAINAGE DISTRICT
C	STRUCTURAL STEEL C CHANNEL
C/G	CURB AND GUTTER
CL	CENTERLINE
CLD	CLEAR
CLSM	CONCRETE LINED DITCH
COB	CONTROLLED LOW-STRENGTH MATERIAL
COG	CITY OF GOODYEAR
CON	CITY OF BUCKEYE
COP	CITY OF PHOENIX
COR	CORNER
CST	CONSTRUCTION
DET	DETAILS
Ø	DIAMETER
DWLS	DOWELS
D/S	DOWNSTREAM
D/W	DRIVEWAY
ELL	ELLIPTICAL
E/P	EDGE OF PAVEMENT
ESMT	EASEMENT
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
FG	FINISHED GRADE
FL	FLOW LINE
FLG	FLANGE
FUT	FUTURE
GR	GRADE
GB	GRADE BREAK
HYD	HYDRAULIC
HGL	HYDRAULIC GRADE LINE
IC	INTERCONNECT
IRR	IRRIGATION
ITS	INTELLIGENT TRANSPORTATION SYSTEMS
LG	LONG
LPSCo	LITCHFIELD PARK SERVICE COMPANY
MAX	MAXIMUM
MC	MARICOPA COUNTY
MCDOT	MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION
MEAND	MEANDERING
MFG	MANUFACTURER
MI	MINER'S INCHES
MJ	MECHANICAL JOINT
MW	MONITOR WELL
n	MANNING'S N
ML	MONUMENT LINE
N/A	NOT APPLICABLE
OAE	OR APPROVED EQUAL
OCEW	ON CENTER EACH WAY
OHE	OVERHEAD ELECTRIC
O&M	OPERATIONS AND MAINTENANCE
OHW	OPERATING HIGH WATER
OLTO	OPEN LATERAL TURNOUT STRUCTURE
PH	POTHOLE
PL	STEEL PLATE, BAR, OR PROPERTY LINE
PLTO	PIPE LINE TURNOUT STRUCTURE
PROP	PROPOSED
PUE	PUBLIC UTILITY EASEMENT
PVT	PRIVATE
RGRCP	RUBBER GASKET REINFORCED CONCRETE PIPE
RID	ROOSEVELT IRRIGATION DISTRICT
R/W	RIGHT-OF-WAY
S	SEWER
SCH	SCHEDULE
SP	SLIP FORM
SF	SPACE(S)
SRVWUA	SALT RIVER VALLEY WATER USERS ASSOCIATION
STR	STRUCTURE
S/W	SIDEWALK
T&B	TOP AND BOTTOM
TBR	TO BE REMOVED
TCE	TEMPORARY CONSTRUCTION EASEMENT
TO	TURNOUT
TOC	TOP OF CURB
TS	STRUCTURAL TUBE STEEL
UNC	UNIFIED NATIONAL COARSE-THREAD SERIES
U/S	UPSTREAM
W	WATER
WSE	WATER SURFACE ELEVATION
WDS	WELL DISCHARGE STRUCTURE



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Client/Project  
**ROOSEVELT IRRIGATION DISTRICT  
LATERAL 8EL & 8WW**

ADOT LOOP 303  
PACKAGE 2

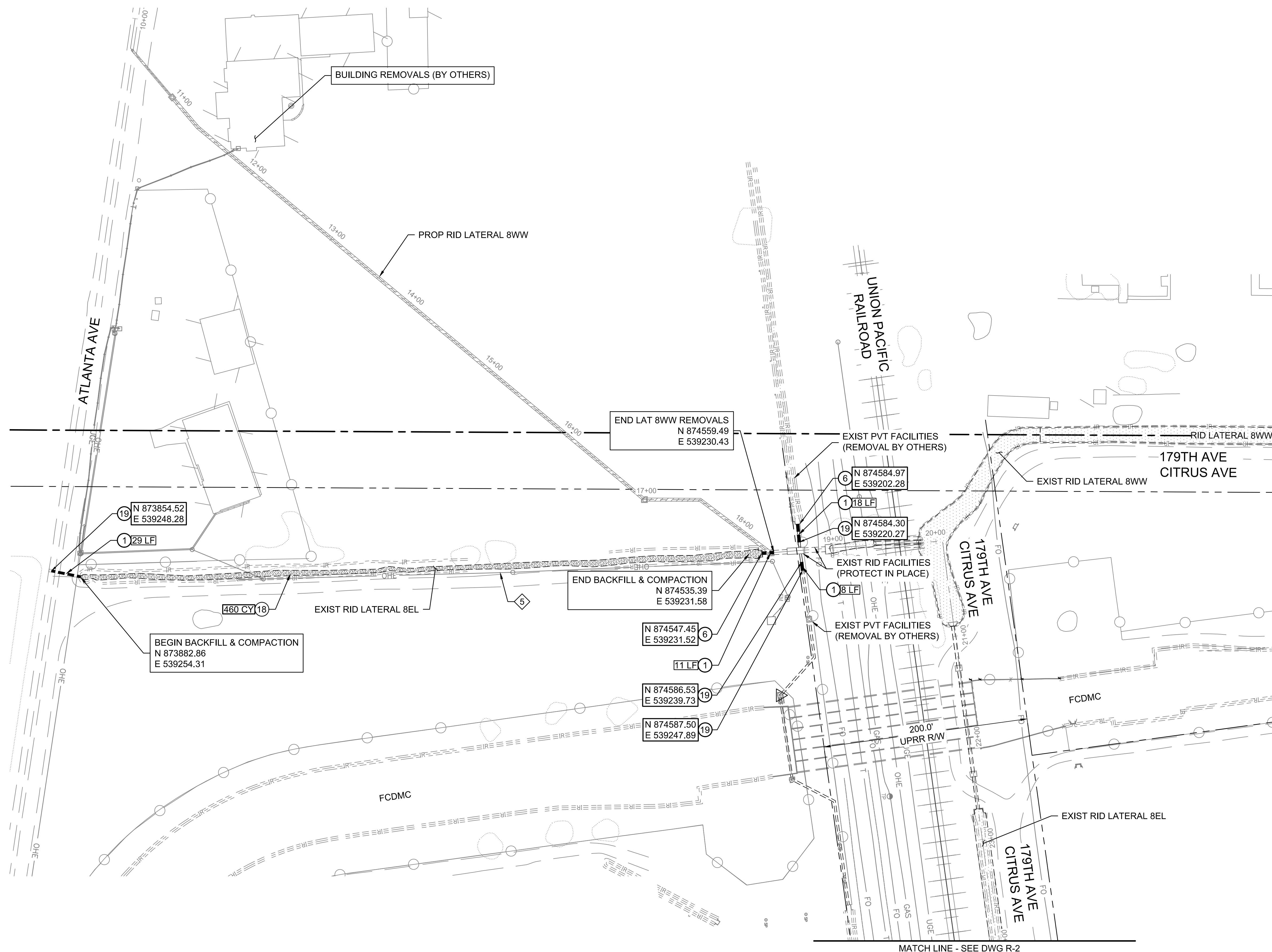
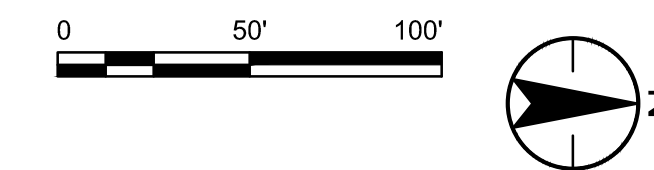
Goodyear, Arizona

**GENERAL NOTES & ABBREVIATIONS**

Project No.	Scale	
181301643	AS SHOWN	
Drawing No.	Sheet	Revision

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# ROOSEVELT RID IRRIGATION DISTRICT



### GENERAL NOTES

- 1 CONTRACTOR TO PROTECT IN PLACE ALL EXIST UTILITIES WHEN REMOVING RID FACILITIES.
- 2 ALL RELOCATION, REMOVAL & DEMOLITION OF NON-RID FACILITIES ALONG THE PROPOSED ALIGNMENTS TO BE COMPLETED BY THE ADOT CONTRACTOR PRIOR TO RID RELOCATIONS.

### REMOVAL NOTES

1	REMOVE & DISPOSE OF EXISTING 24" - 36" RGRCP. BACKFILL & COMPACT PER MAG STD SPECIFICATIONS SECTION 601.	66	LF
6	REMOVE & DISPOSE OF EXISTING IRRIGATION HEADWALL. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE HEADWALL TRASHRACK.	2	EA
18	CLEAR, GRUB, SCARIFY 6", BACKFILL & COMPACT EXISTING CANAL PRISM PER MAG STD SPECIFICATION SECTION 211.	460	CY (NET FILL)
19	SAWCUT PIPE & CONSTRUCT PIPE PLUG PER MAG STD DET 427 (DRAIN LINE).	4	EA

### UTILITY NOTES

- 5 CAUTION! OVERHEAD ELECTRIC LINES, PROTECT IN PLACE.

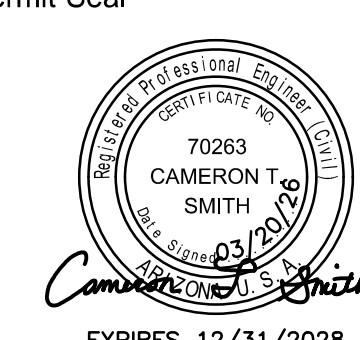


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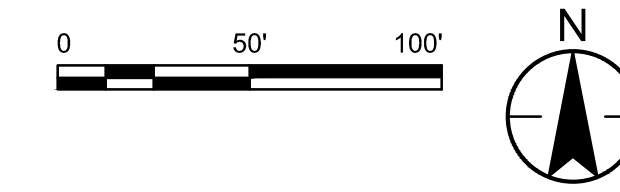


Client/Project  
ROOSEVELT IRRIGATION DISTRICT  
LATERAL 8EL & 8WW  
ADOT LOOP 303  
PACKAGE 2  
Goodyear, Arizona

Title  
LATERALS 8WW  
REMOVALS

Project No. 181301643 Scale 1"=50'  
Drawing No. R-1 Sheet 7 of 19 Revision 0

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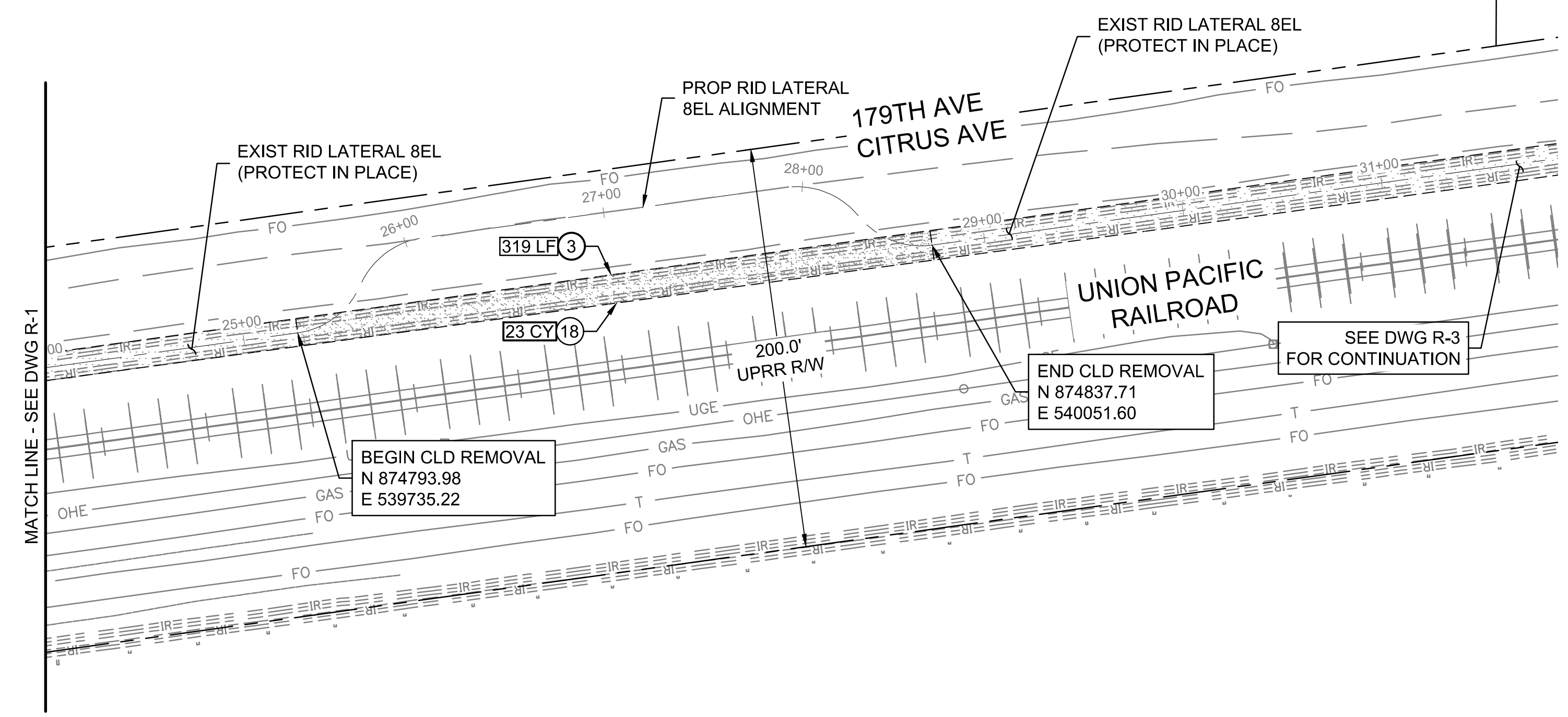
# ROOSEVELT RID IRRIGATION DISTRICT

### GENERAL NOTES

- 1 CONTRACTOR TO PROTECT IN PLACE ALL EXIST UTILITIES WHEN REMOVING RID FACILITIES.
- 2 ALL RELOCATION, REMOVAL & DEMOLITION OF NON-RID FACILITIES ALONG THE PROPOSED ALIGNMENTS TO BE COMPLETED BY THE ADOT CONTRACTOR PRIOR TO RID RELOCATIONS.

### REMOVAL NOTES

3	REMOVE & DISPOSE OF EXISTING RID LATERAL CONCRETE LINING. CLEAR, GRUB, SCARIFY 6", BACKFILL & COMPACT PER MAG STD SPECIFICATIONS SECTION 211.	319	LF
18	CLEAR, GRUB, SCARIFY 6", BACKFILL & COMPACT EXISTING CANAL PRISM PER MAG STD SPECIFICATION SECTION 211.	23	CY (NET FILL)



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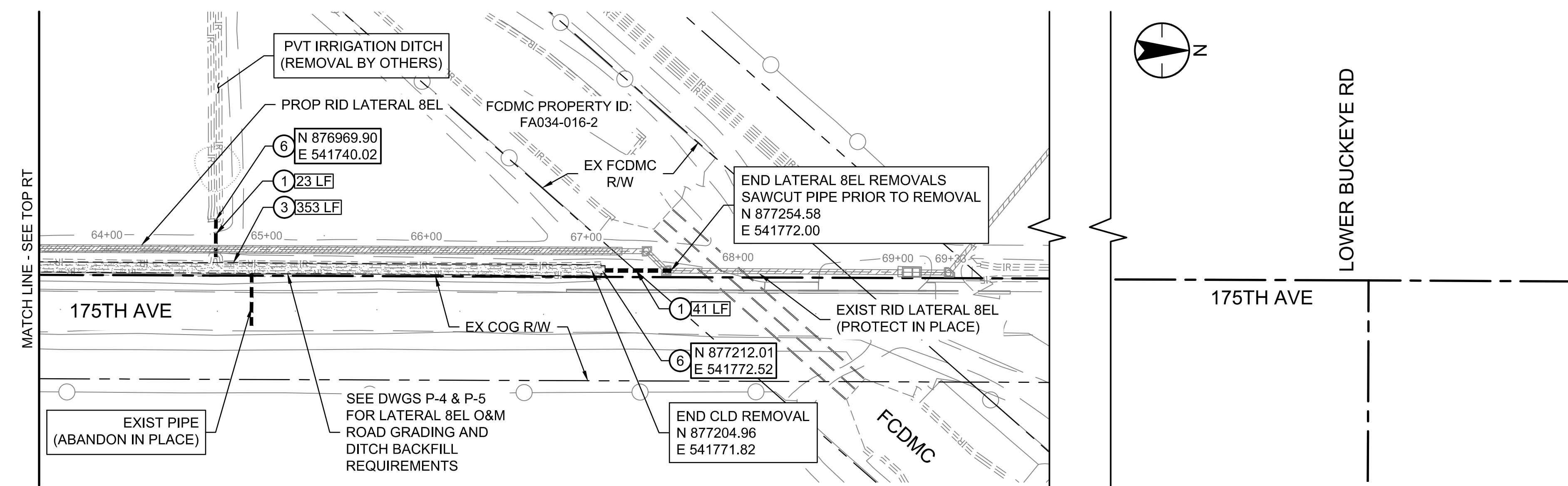
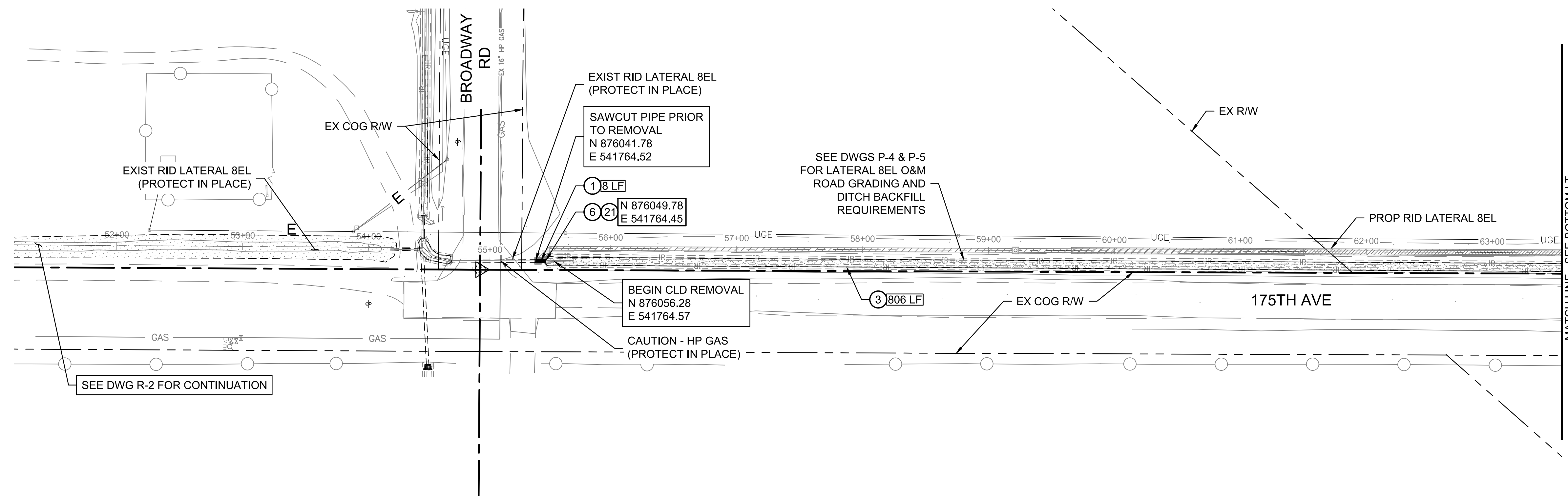
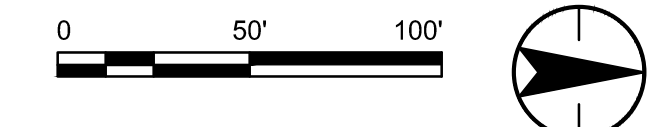
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Client/Project  
 ROOSEVELT IRRIGATION DISTRICT  
 LATERAL 8EL & 8WW  
 ADOT LOOP 303  
 PACKAGE 2  
 Goodyear, Arizona

Title  
 LATERAL 8EL  
 REMOVALS

Project No. 181301643	Scale 1"=50'
Drawing No. R-2	Sheet 8 of 19
	Revision 0



**GENERAL NOTES**

- CONTRACTOR TO PROTECT IN PLACE ALL EXIST UTILITIES WHEN REMOVING RID FACILITIES.
- ALL RELOCATION, REMOVAL & DEMOLITION OF NON-RID FACILITIES ALONG THE PROPOSED ALIGNMENTS TO BE COMPLETED BY THE ADOT CONTRACTOR PRIOR TO RID RELOCATIONS.

**REMOVAL NOTES**

1	REMOVE & DISPOSE OF EXISTING 24" - 36" RGRCP. BACKFILL & COMPACT PER MAG STD SPECIFICATIONS SECTION 601.	72	LF
3	REMOVE & DISPOSE OF EXISTING RID LATERAL CONCRETE LINING. CLEAR, GRUB, SCARIFY 6", BACKFILL & COMPACT PER MAG STD SPECIFICATIONS SECTION 211.	1159	LF
6	REMOVE & DISPOSE OF EXISTING IRRIGATION HEADWALL. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE HEADWALL TRASHRACK.	3	EA
21	SALVAGE GRATE COVERS, GATES, & ANCILLARY METALWORK.	-	-

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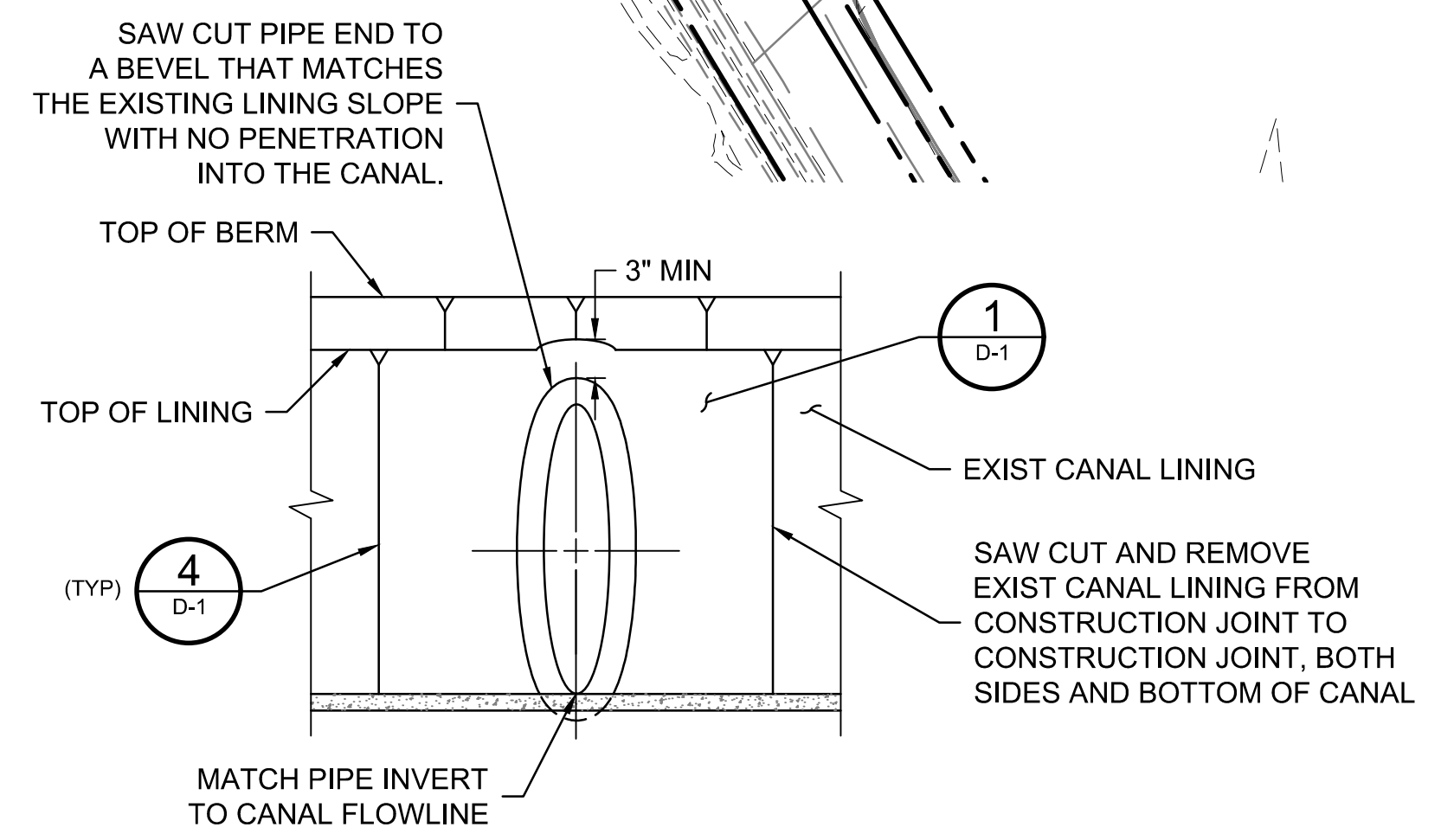
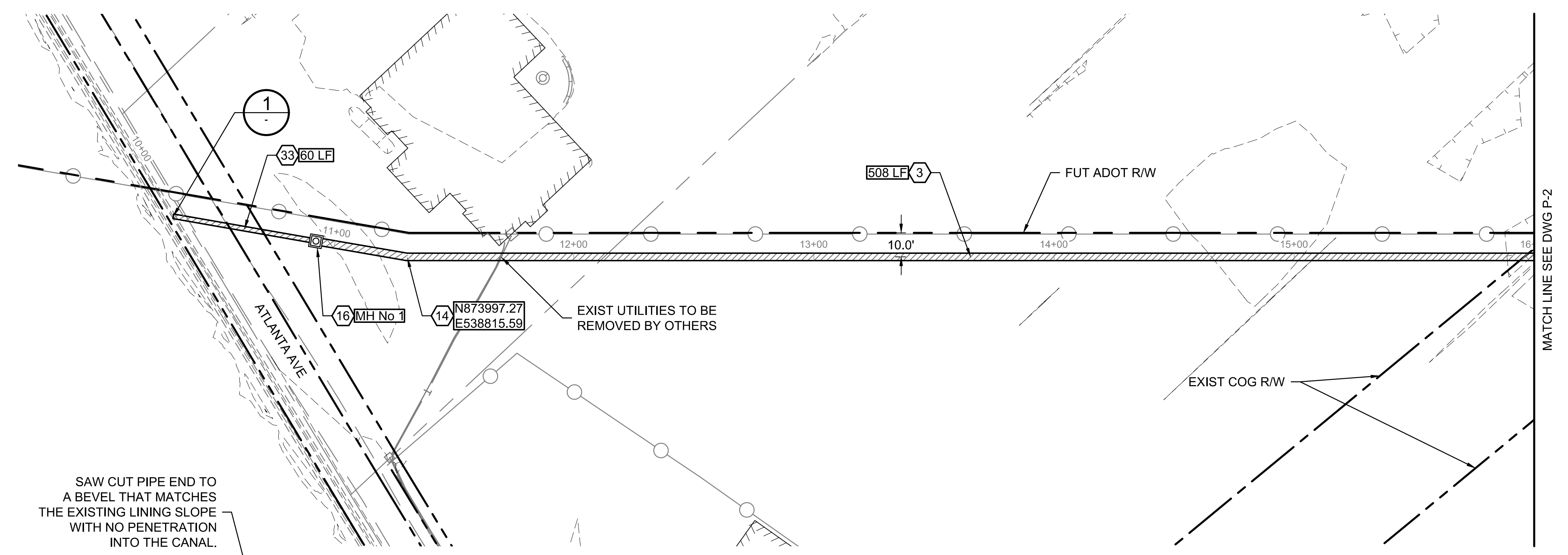
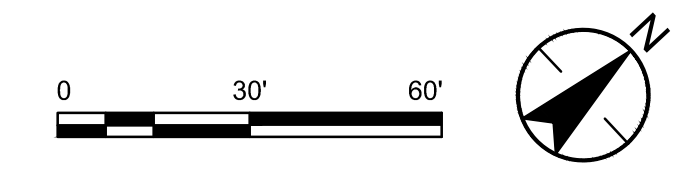
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LATERAL 8EL & 8WW

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PACKAGE 2  
Goodyear, Arizona

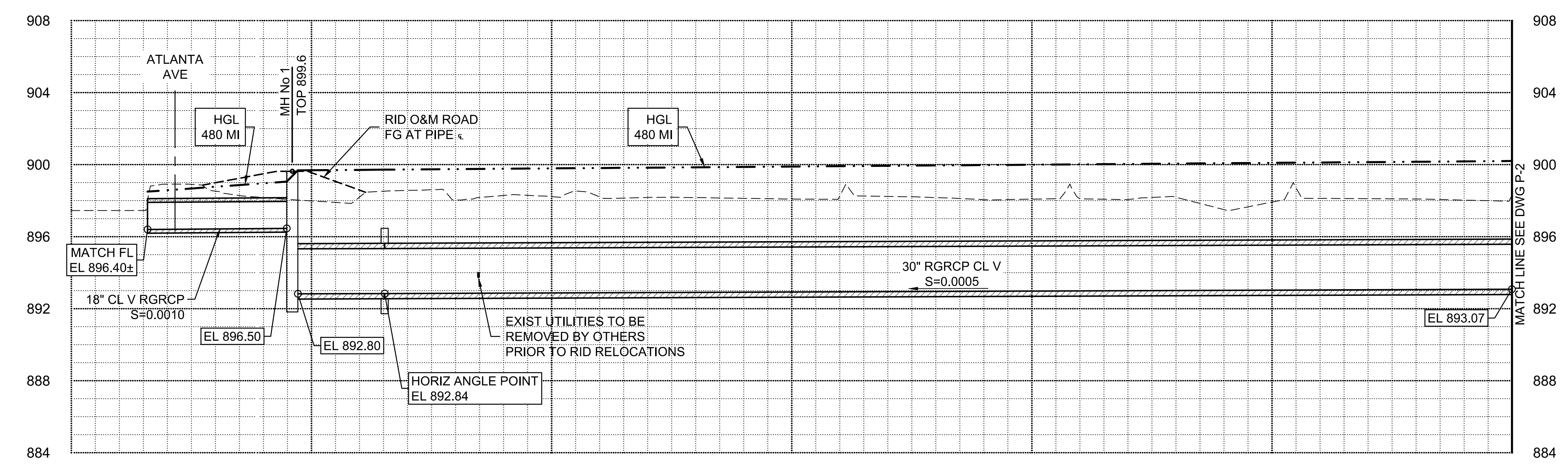
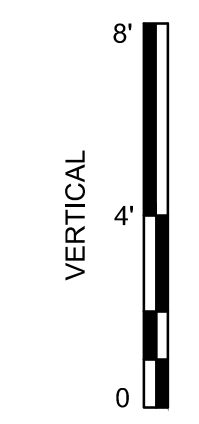
Title  
LATERAL 8EL  
REMOVALS

Project No. 181301643	Scale 1"=50'
Drawing No. R-3	Sheet 9 of 19
	Revision 0

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**1 SECTION - CONCRETE LINED DITCH PIPE PENETRATION**  
NTS



CONSTRUCTION NOTES			
3	FURNISH AND INSTALL 30" RGRCP CL V SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	508	LF
14	CONSTRUCT PIPE COLLAR PER DETAIL 8, DWG D-1	1	EA
16	CONSTRUCT STANDARD MANHOLE SEE DWG S-2, DIM C UNDER 10-FT	1	EA
33	FURNISH AND INSTALL 18" RGRCP CL V SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	60	LF

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Chkd: GGB  
Dsgn: CTS  
MM.DD.YY: 03.20.26

Permit-Seal

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Client/Project  
**ROOSEVELT IRRIGATION DISTRICT  
LATERAL 8EL & 8WW**

ADOT LOOP 303  
PACKAGE 2  
Goodyear, Arizona

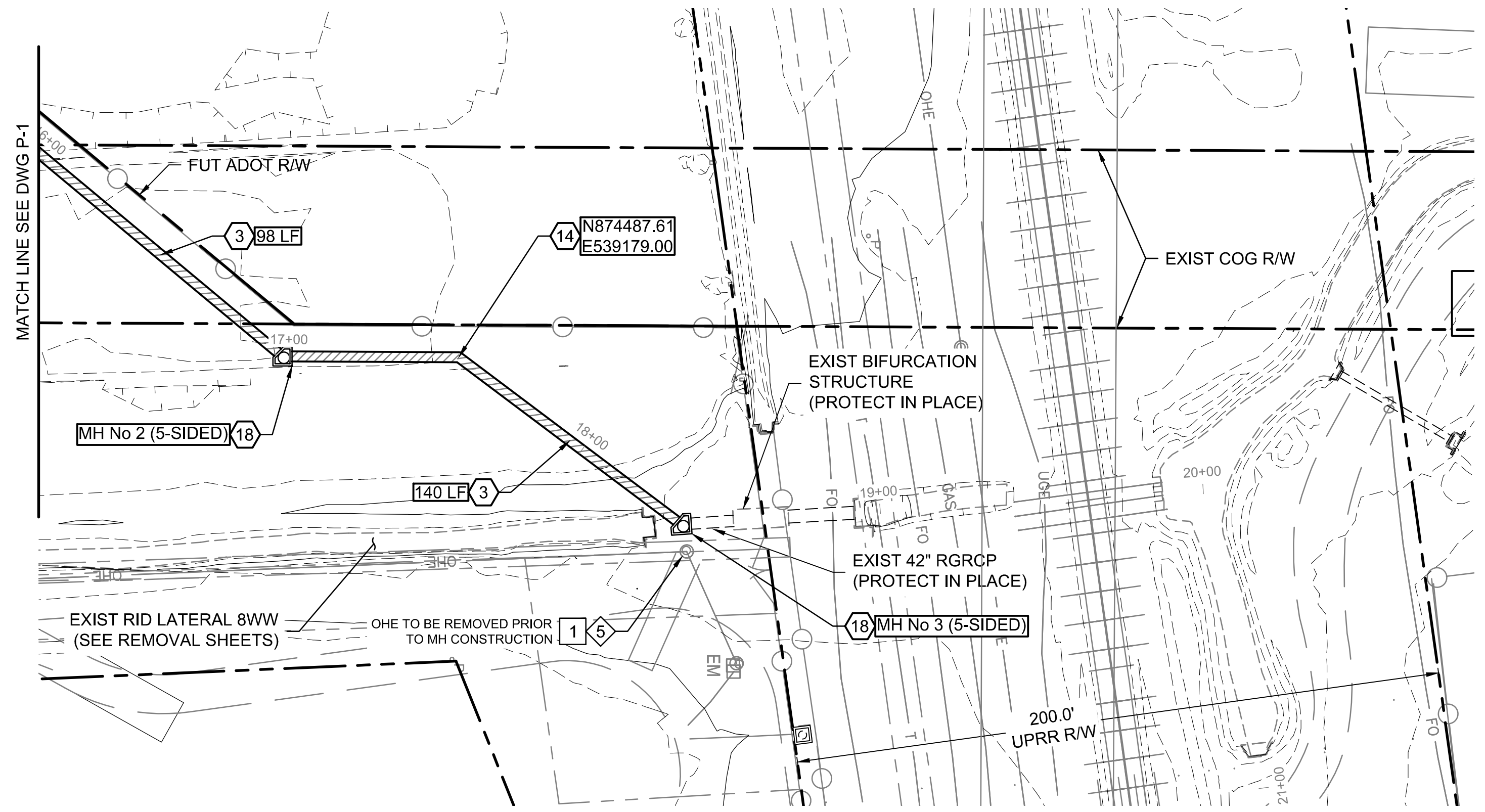
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**LATERAL 8WW  
PLAN & PROFILE**

Project No. 181301643  
Scale 1"=30' HOR 1"=4' VERT  
Drawing No. P-1  
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Revision 0

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# ROOSEVELT RID IRRIGATION DISTRICT

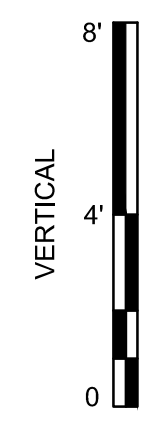
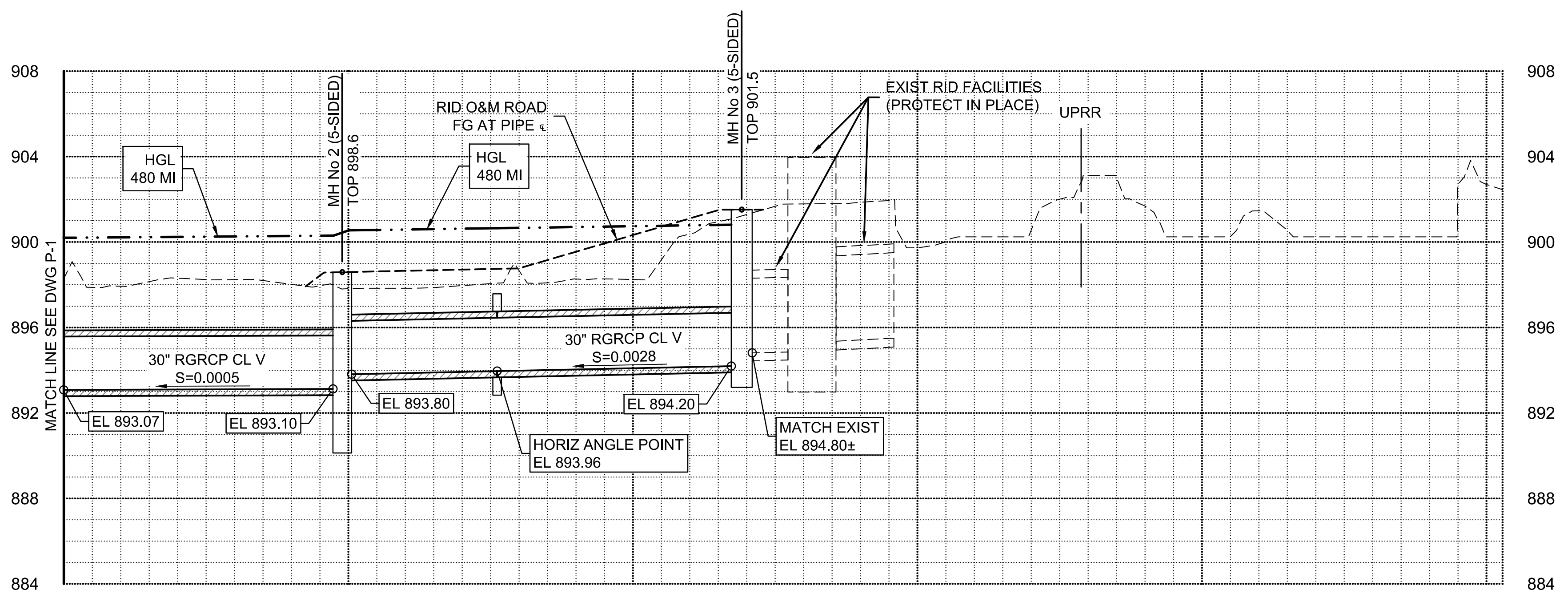


UTILITY TABLE					
KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POTHOLE	PROPOSED	MIN FOR CLEARANCE
1	OHE	874558.09 539239.06	-	-	-

CONSTRUCTION NOTES			
3	FURNISH AND INSTALL 30\"/>	238	LF
14	CONSTRUCT PIPE COLLAR PER DETAIL 8, DWG D-1	1	EA
18	CONSTRUCT 5-SIDED MANHOLE SEE DWG S-3, DIM H UNDER 10-FT	2	EA

UTILITY NOTES			
5	CAUTION! OVERHEAD ELECTRIC LINES, PROTECT IN PLACE.		



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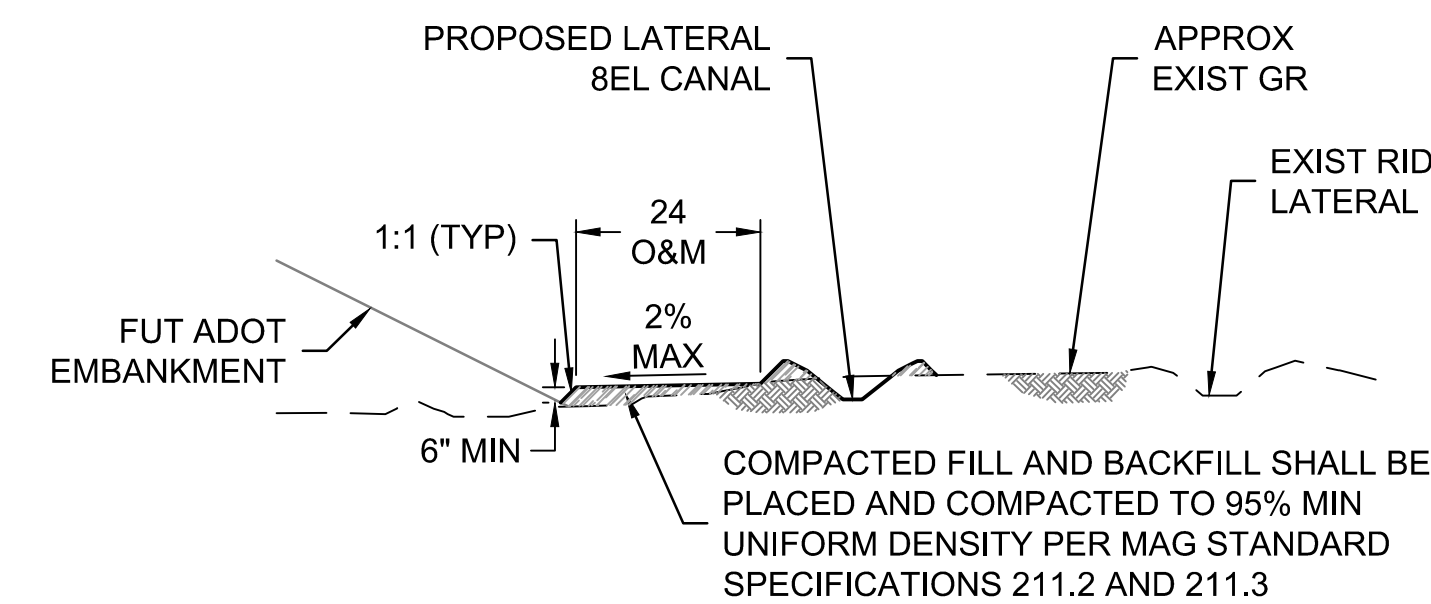
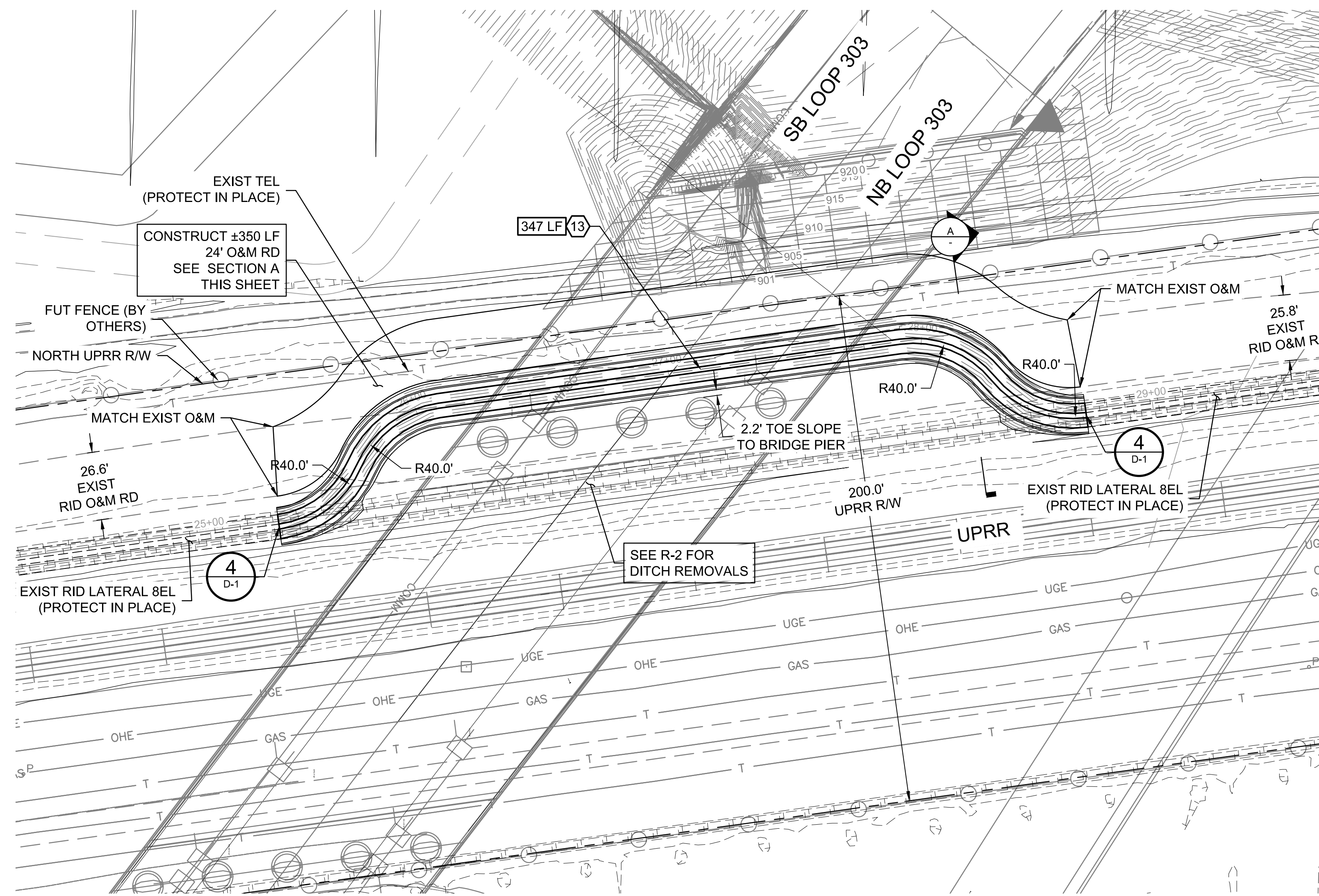
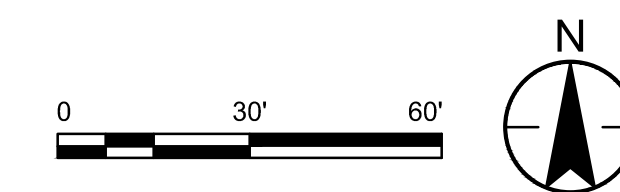
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Client/Project  
**ROOSEVELT IRRIGATION DISTRICT  
LATERAL 8EL & 8WW**  
ADOT LOOP 303  
PACKAGE 2  
Goodyear, Arizona

Title  
**LATERAL 8WW  
PLAN & PROFILE**

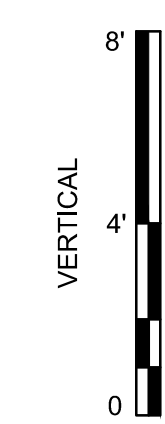
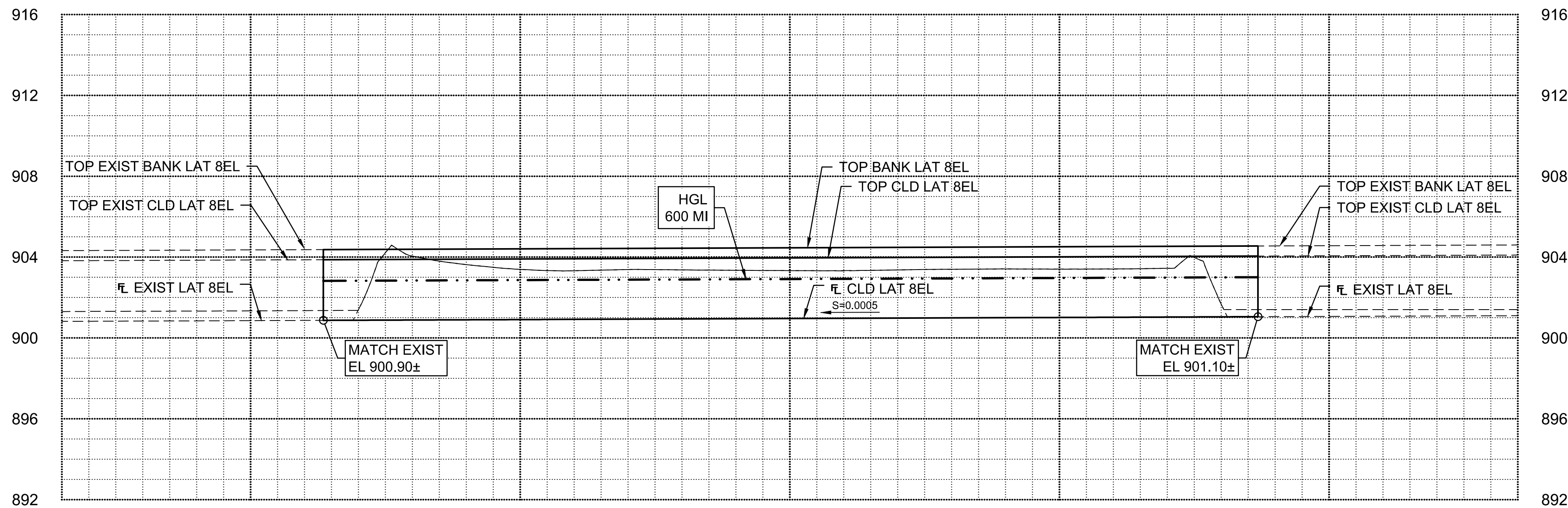
Project No. 181301643  
Drawing No. P-2  
Scale 1"=30' HOR 1"=4' VERT  
Sheet 11 of 19  
Revision 0



**A** SECTION  
NTS

LAT 8EL CONCRETE LINED CANAL PROPERTIES					
Q (cfs)	B (ft)	H (ft)	S (ft/ft)	S:S	Ht (ft)
15	2.0	3.0	0.0005	1.25:1	0.5

CONSTRUCTION NOTES		
13	CONSTRUCT CONCRETE LINED LATERAL 8EL CANAL SEE DETAIL A, DWG D-1 FOR TYPICAL HAND-PLACED LINING SECTION & LATERAL 8EL CANAL PROPERTIES, THIS SHEET	LF



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**Stantec**  
Stantec Consulting Services Inc.  
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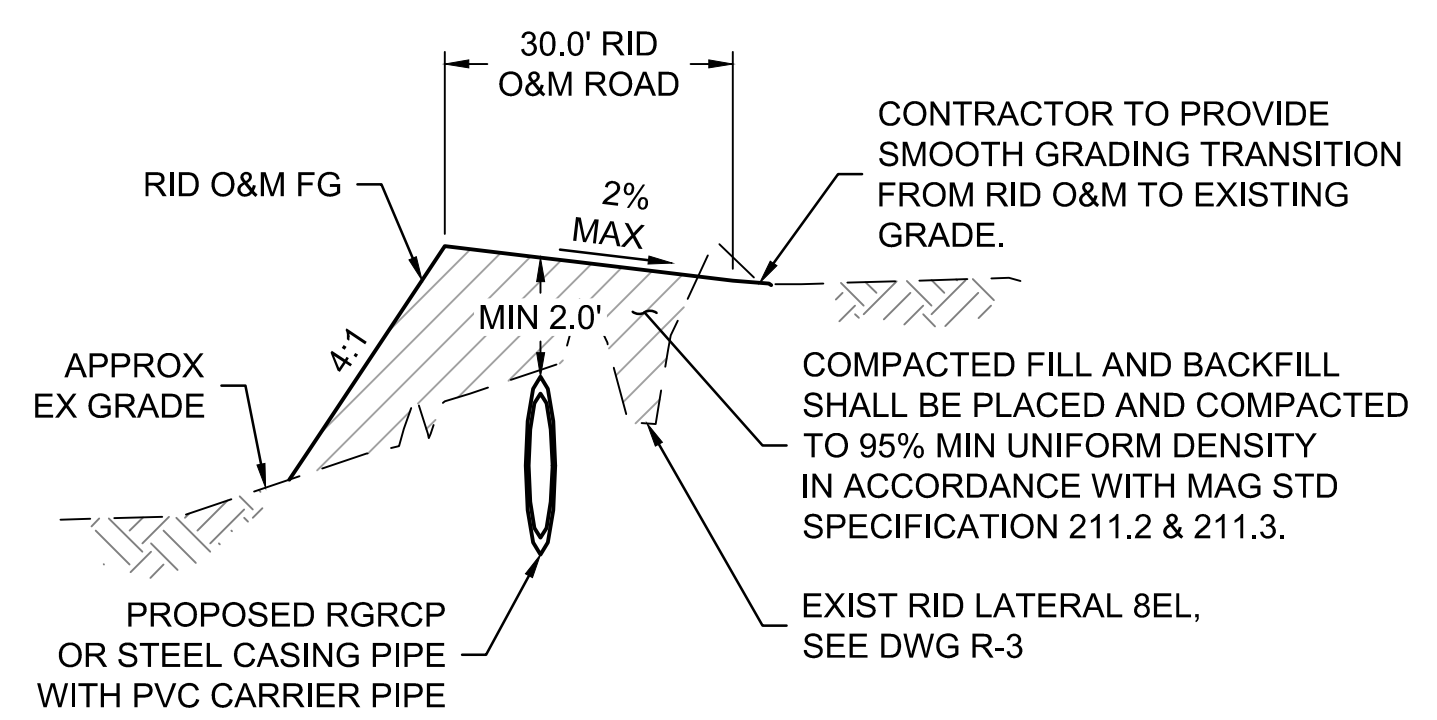
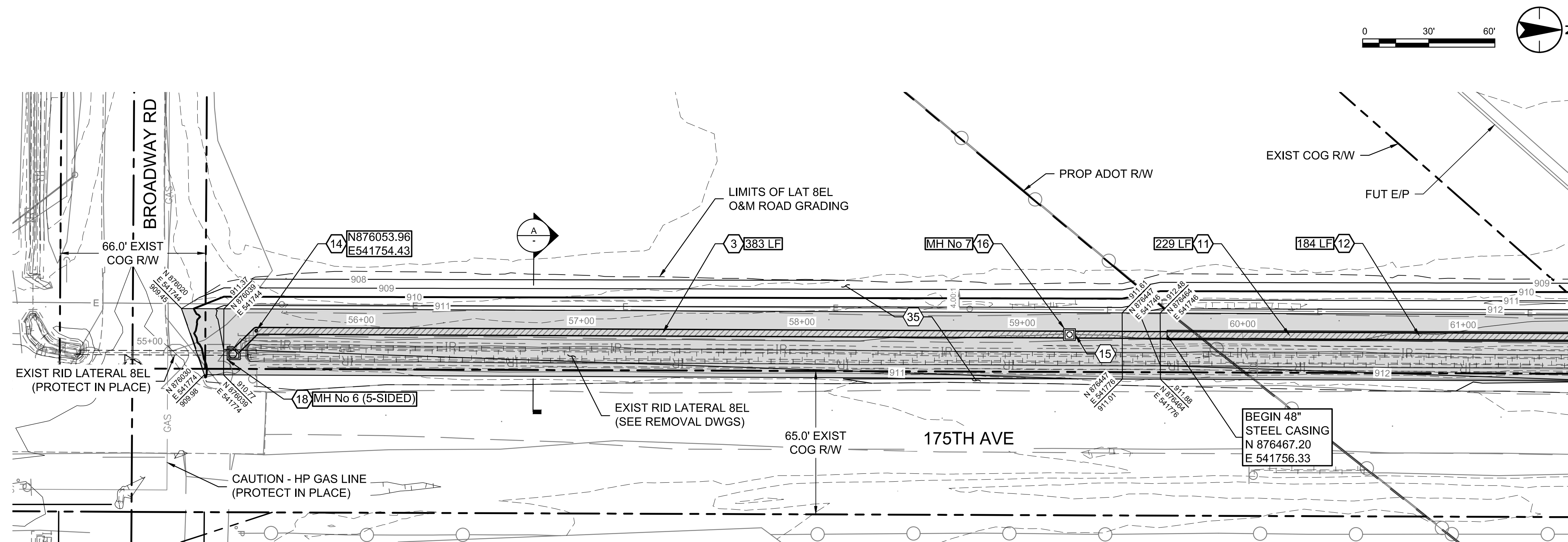
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Contact Arizona 811 at least two full working days before you begin excavation

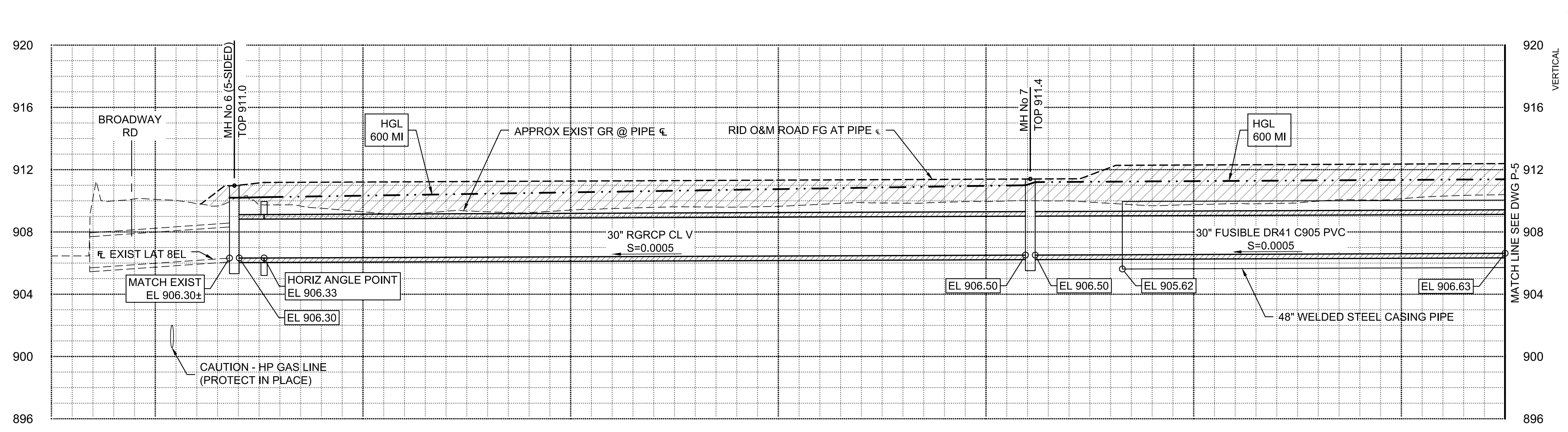
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 ROOSEVELT IRRIGATION DISTRICT  
 LATERAL 8EL & 8WW  
 ADOT LOOP 303  
 PACKAGE 2  
 Goodyear, Arizona

Title  
 LATERAL 8EL  
 PLAN & PROFILE

Project No. 181301643    Scale 1"=30' HOR 1"=4' VERT  
 Drawing No. P-3    Sheet 12 of 19    Revision 0



**A** LATERAL 8EL O&M ROAD TYPICAL SECTION  
NTS



CONSTRUCTION NOTES			
3	FURNISH AND INSTALL 30" RGRCP CL V SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	383	LF
11	FURNISH AND INSTALL 30" FUSIBLE DR41 C905 PVC PIPE SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL & DWG D-2 FOR JACK & BORE NOTES AND DETAILS.	229	LF
12	FURNISH AND INSTALL 48" WELDED STEEL CASING PIPE SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL & DWG D-2 FOR JACK & BORE NOTES AND DETAILS.	184	LF
14	CONSTRUCT PIPE COLLAR PER DETAIL 8, DWG D-1	1	EA
15	CONSTRUCT PIPE CONTAINMENT COLLAR PER DETAIL 2, DWG D-2	1	EA
16	CONSTRUCT STANDARD MANHOLE SEE DWG S-2, DIM C UNDER 10-FT	1	EA
18	CONSTRUCT 5-SIDED MANHOLE SEE DWG S-3, DIM H UNDER 10-FT	1	EA
35	GRADE RID O&M ROAD & BACKFILL EXISTING LATERAL. COMPACT FILL MATERIAL FOR O&M ROAD TO 95% OF ASTM D698.	1656	CY

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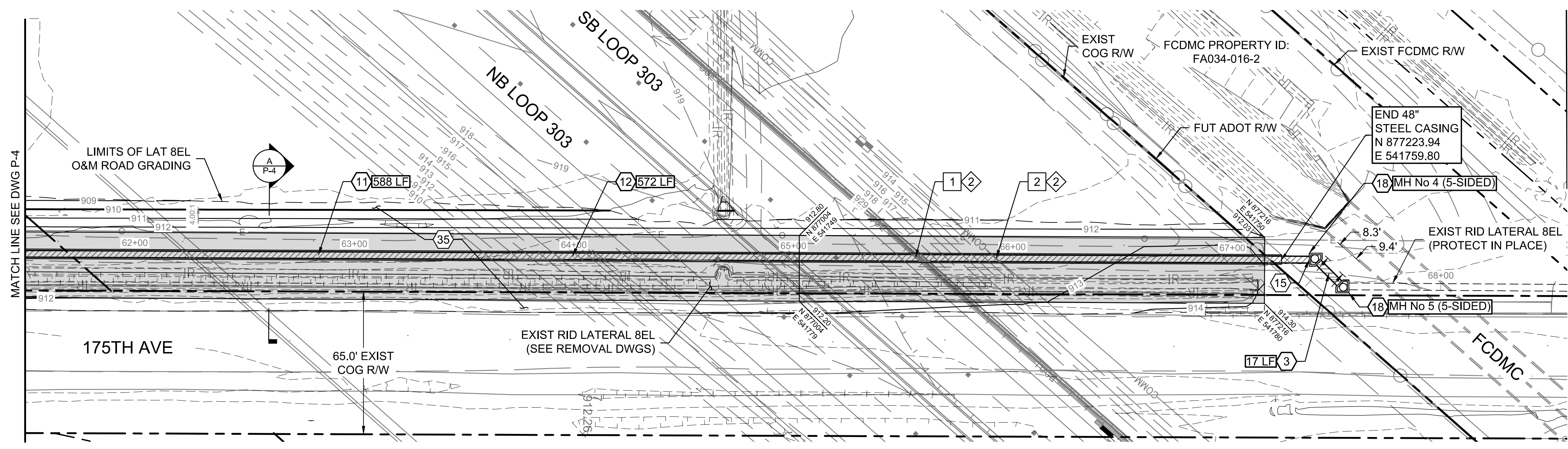
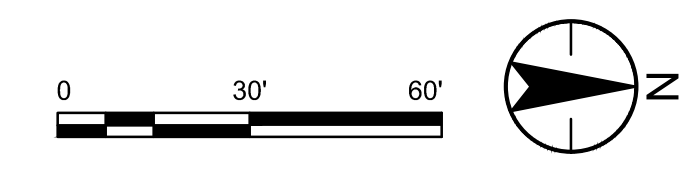
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**ROOSEVELT IRRIGATION DISTRICT  
 LATERAL 8EL & 8WW**  
 ADOT LOOP 303  
 PACKAGE 2  
 Goodyear, Arizona  
 Title  
**LATERAL 8EL  
 PLAN & PROFILE**

Project No. 181301643  
 Scale 1"=30' HOR 1"=4' VERT  
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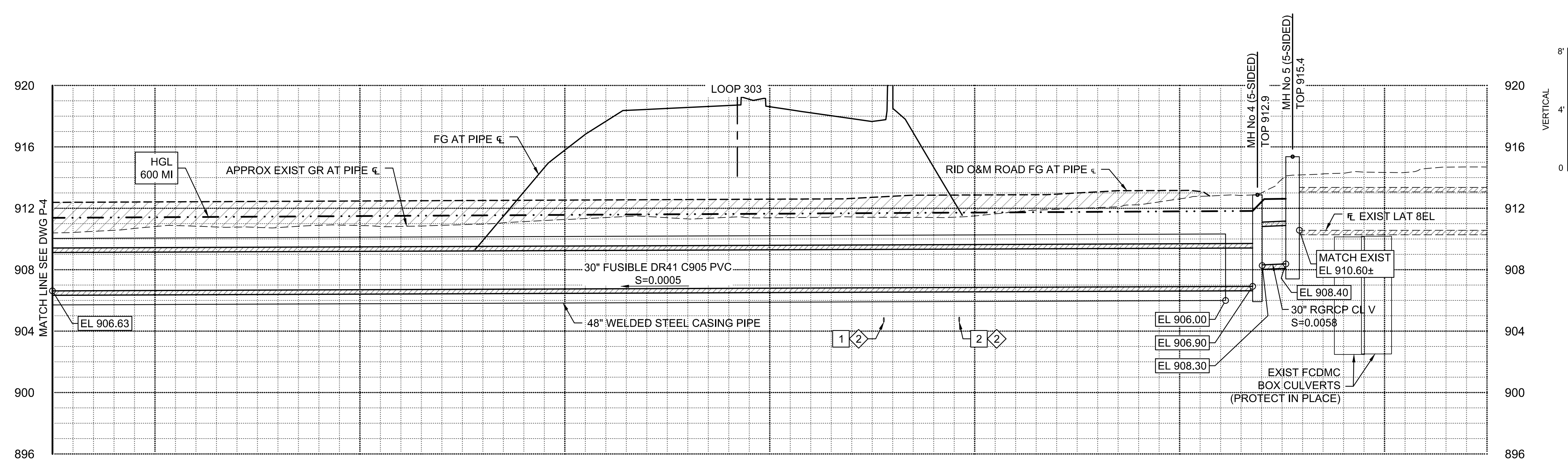


UTILITY TABLE					
KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POT HOLE	PROPOSED	MIN FOR CLEARANCE
1	UGE	877057.15 541759.00	-	904.90	1'-0"
2	COMM	877093.94 541759.16	-	904.90	1'-0"

CONSTRUCTION NOTES			
3	FURNISH AND INSTALL 30" RGRCP CL V SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	17	LF
11	FURNISH AND INSTALL 30" FUSIBLE DR41 C905 PVC PIPE SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL & DWG D-2 FOR JACK & BORE NOTES AND DETAILS.	588	LF
12	FURNISH AND INSTALL 48" WELDED STEEL CASING PIPE SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL & DWG D-2 FOR JACK & BORE NOTES AND DETAILS.	572	LF
15	CONSTRUCT PIPE CONTAINMENT COLLAR PER DETAIL 2, DWG D-2	1	EA
18	CONSTRUCT 5-SIDED MANHOLE SEE DWG S-3, DIM H UNDER 10-FT	2	EA
35	GRADE RID O&M ROAD & BACKFILL EXISTING LATERAL. COMPACT FILL MATERIAL FOR O&M ROAD TO 95% OF ASTM D698.	1063	CY

UTILITY NOTES	
2	PROPOSED UNDERGROUND UTILITY. ELEVATION SHOWN ON PROFILE IS MINIMUM FOR CLEARANCE FROM PROPOSED RID FACILITIES. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.



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 LATERAL 8EL & 8WW**  
 ADOT LOOP 303  
 PACKAGE 2  
 Goodyear, Arizona

Title  
**LATERAL 8EL  
 PLAN & PROFILE**

Project No. 181301643  
 Scale 1"=30' HOR 1"=4' VERT  
 Drawing No. P-5  
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 Revision 0

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Concrete Notes

- SAWCUT END OF PIPE AND PLACE 2" BACK FROM INSIDE FACE OF WALL. BLAST CLEAN TO ROUGHEN CUT PIPE AND COAT WITH EPOXY COATING (SIKADUR 31, HI-MOD GEL (OAE)).
- CHAMFER EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES OF ALL STRUCTURES WITH A 45° BEVEL, 3/4"x3/4".
- ALL DIMENSIONS TO A JOINT ARE TO THE CENTERLINE OF THE JOINT. BEAM AND SLAB DEPTHS SHALL BE MEASURED FROM THE TOP OF THE STRUCTURAL SLAB. DIMENSIONS GIVEN FOR THE DEPTH OF RECESSES ARE FROM THE SURFACE OF THE STRUCTURAL CONCRETE. THICKNESS SHOWN FOR WALLS AND SLABS ADJACENT TO UNDISTURBED SOIL OR ROCK ARE MINIMUM DIMENSIONS.
- BEFORE PLACING CONCRETE, CARE SHALL BE TAKEN THAT ALL EMBEDDED ITEMS ARE IN POSITION AND SECURELY FASTENED IN PLACE.
- FOR LOCATION AND CLASSES OF FINISHES FOR FORMED AND UNFORMED CONCRETE SURFACES, SEE SPECIFICATION.
- ALL CONSTRUCTION JOINTS SPECIFICALLY SHOWN ON THE DRAWINGS SHALL BE PROVIDED. ADDITIONAL CONSTRUCTION JOINTS MAY BE USED SUBJECT TO APPROVAL.

TABLE FOR ADDITIONAL REINFORCEMENT			
MEMBER THICKNESS	TIE BARS	EDGE BARS	CORNER BARS
LESS THAN 10"	NONE	1- @ CENTER	2- #4 @ CTR.
10" THRU 18"	NONE	2- (1 EACH FACE)	4- #4 (2 EACH FACE)
19" THRU 36"	#4 @ 12"	3- EQUALLY SPACED	4- #4 (2 EACH FACE)
OVER 36"	#6 @ 12"	SPACED @ 12"	4- #5 (2 EACH FACE)

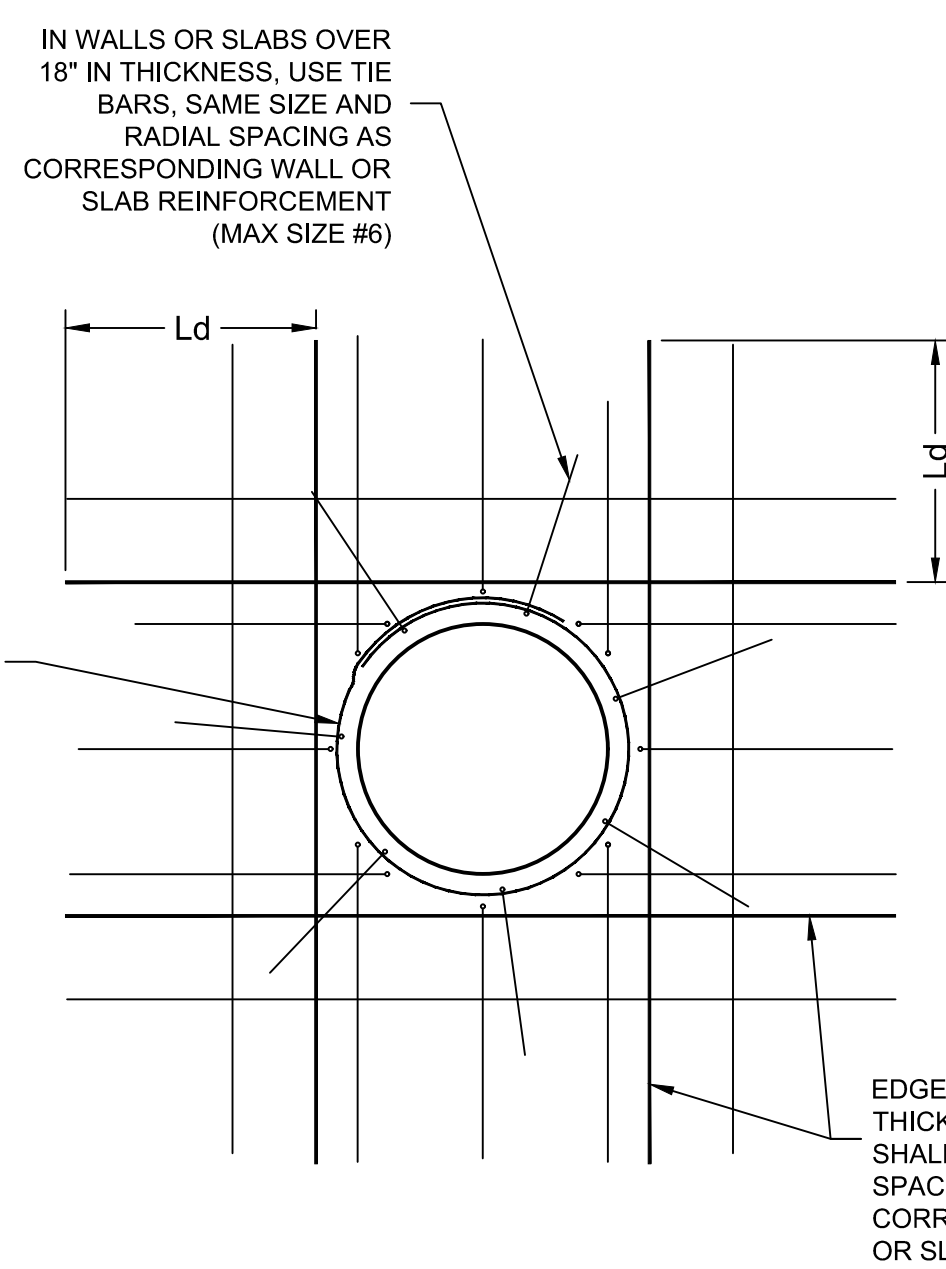
OMIT EDGE AND TIE BARS ALONG SIDES OF OPENINGS LESS THAN 18". OMIT CORNER BARS AT SIDES OF OPENINGS ADJACENT TO FLOORS, WALLS, OR BEAMS. OMIT CORNER BARS IF BOTH DIMENSIONS OF OPENINGS ARE LESS THAN 18". RECESSES: USE CORNER BARS IN FACE OF RECESSES DEEPER THAN 4" IF EITHER DIMENSION OF RECESS IS EQUAL TO OR GREATER THAN 18".

### Additional Reinforcement Notes

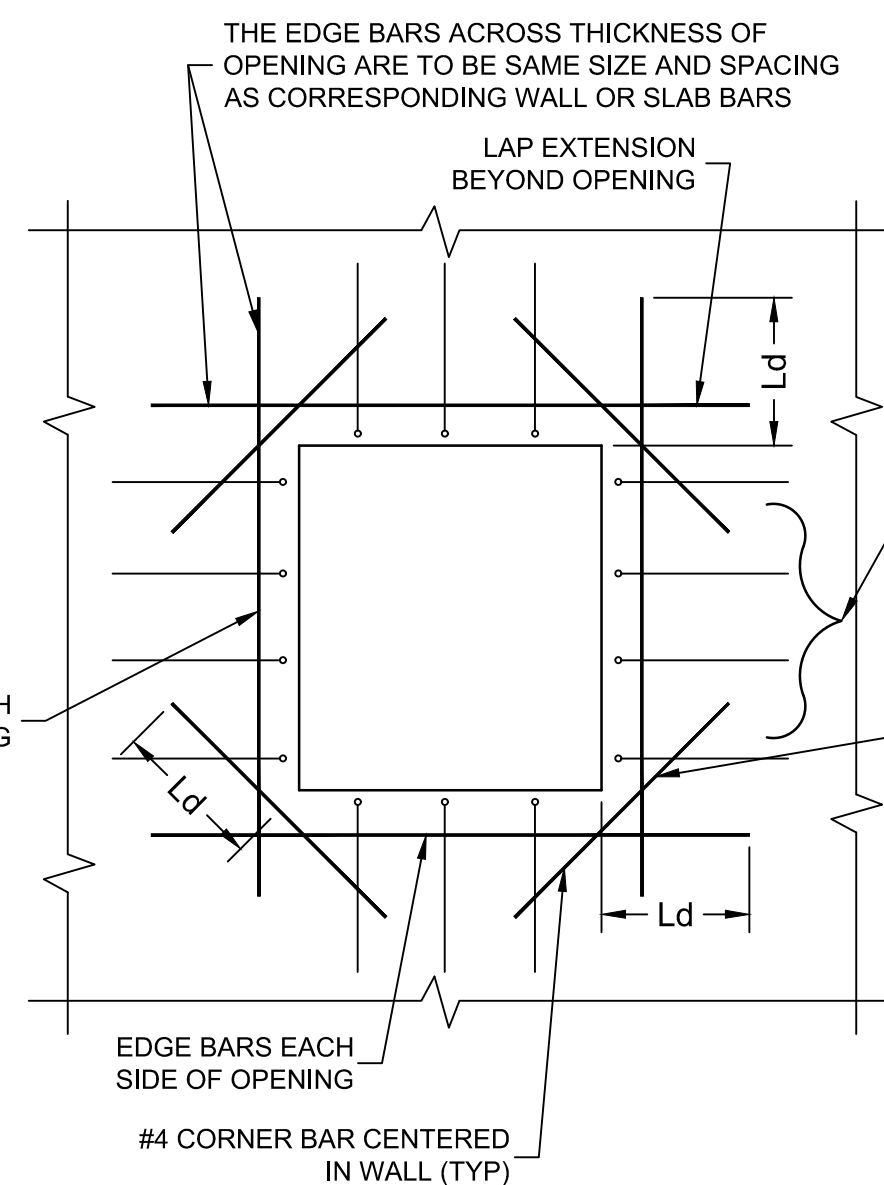
- AREA OF ADDITIONAL BARS AT EACH EDGE OF OPENING IN EACH DIRECTION SHALL MATCH 1/2 THE CROSS SECTIONAL AREA OF THE INTERRUPTED BARS.
- PROVIDE STANDARD ACI HOOK IF STRAIGHT EXTENSION PART OPENING CANNOT BE OBTAINED.
- PLACE ADDITIONAL REINFORCING IN THE SAME PLANE AS THE REINFORCING INDICATED IN THE DETAIL PLANS.
- PROVIDE MINIMUM 2" CLEAR COVER AROUND OPENING.
- DIAMETER OF ADDITIONAL BAR SHALL BE (AT A MINIMUM) THE SAME DIAMETER AS INTERRUPTED BARS.
- TIES, EDGE, AND CORNER BARS NOT REQUIRED FOR OPENINGS 18" OR LESS. FOR A RECESS DEEPER THAN 4", BUT NOT GREATER THAN 1/2 WALL OR SLAB THICKNESS, USE CORNER BARS IN FACE ON RECESS SIDE.

IN WALLS OR SLABS OVER 18" IN THICKNESS, USE TIE BARS, SAME SIZE AND SPACING AS CORRESPONDING WALL OR SLAB REINFORCEMENT (MAX SIZE #6)

SEE CORNER BAR TABLE (OMIT AT SIDE OF OPENINGS ADJACENT TO MASS CONCRETE, FLOORS OR BEAMS)



REINFORCEMENT AROUND CIRCULAR OPENINGS



REINFORCEMENT AROUND RECTANGULAR OPENINGS FOR WALLS LESS THAN 10" THICK

PROVIDE HOOP REINFORCEMENT SAME SIZE AND SPACING AS CORNER BARS FOR RECTANGULAR OPENINGS PROVIDE LAP LENGTH EXTENSION

### ADDITIONAL REINFORCEMENT AT OPENING IN CONCRETE SLAB OR WALL



### Concrete Reinforcement Notes

- PLACE THE REINFORCEMENT SO THAT THE MINIMUM CLEAR DISTANCE BETWEEN FACE OF CONCRETE AND NEAREST REINFORCEMENT IS 2" FOR #6 BARS AND SMALLER, AND 3" FOR #9 THROUGH #11 BARS; EXCEPT PROVIDE A CLEAR DISTANCE FROM FACE OF CONCRETE PLACED AGAINST EARTH OR ROCK OF 3" WHERE MEMBER THICKNESS IS 9" OR LESS, AND 3" WHERE MEMBER THICKNESS IS GREATER THAN 9". THE CLEAR DISTANCE BEING TO THE DESIGN DIMENSION LINE. REINFORCEMENT PARALLELING CONSTRUCTION JOINTS SHALL HAVE A MINIMUM OF 2" CLEAR COVER. PROVIDE 2" MINIMUM CLEAR COVER AROUND OPENING.
- DIMENSIONS ARE TO THE CENTERLINES OF THE BARS UNLESS OTHERWISE SHOWN. CLEAR COVER DIMENSIONS ARE MARKED "CLR".
- REINFORCEMENT AT SMALL OPENINGS (MAX 18") IN WALLS AND SLABS MAY BE SPREAD APART NOT MORE THAN 1 1/2 TIMES THE BAR SPACING. REINFORCEMENT MAY BE ADJUSTED Laterally TO MAINTAIN A CLEAR DISTANCE OF AT LEAST 1" BETWEEN THE REINFORCEMENT AND KEYS, WATERSTOPS, ANCHOR BOLTS, FORM TIES, CONDUITS, AND OTHER EMBEDDED MATERIAL. IN HEAVILY REINFORCED AREAS, RELOCATION OF THE EMBEDDED MATERIAL MUST BE CONSIDERED. IN NO CASE SHOULD BARS BE BENT TO GREATER THAN 6 TO 1 SLOPE. REINFORCEMENT PARALLEL TO ANCHOR BOLTS OR OTHER EMBEDDED MATERIAL SHALL BE PLACED TO MAINTAIN A CLEAR DISTANCE OF AT LEAST 1 1/3 TIMES THE MAXIMUM SIZE AGGREGATE. PLACE ADDITIONAL REINFORCING IN THE SAME PLANE AS THE REINFORCING INDICATED IN THE DETAIL PLANS.
- THE FIRST AND LAST BARS IN WALLS AND SLABS, STIRRUPS IN BEAMS, AND TIES IN COLUMNS ARE TO START AND END AT A MAXIMUM OF ONE-HALF OF THE ADJACENT BAR SPACING.
- PLAIN DOWELS ACROSS CONTRACTION JOINTS SHALL BE SMOOTH BARS UNIFORMLY COATED WITH A FILM OF OIL BEFORE CONCRETE PLACEMENT. VISCOSITY OF THE OIL SHALL HAVE A SAE RATING OF NOT LESS THAN 250.
- BAR SUPPORTS, SPACERS, AND OTHER ACCESSORIES ARE NOT SHOWN ON THE DESIGN DRAWINGS. THE RECOMMENDATIONS OF ACI-315 OR OTHER APPROVED SUPPORTING SYSTEMS MAY BE USED.
- UNLESS OTHERWISE SHOWN, THE MINIMUM LENGTH OF LAP FOR SPlicing PARALLEL BARS SHALL BE GIVEN IN THE TABLE OF SPLICE AND EMBEDMENT LENGTHS. SPLICES SHALL BE STAGGERED TO GIVE 12" CLEAR BETWEEN END OF ADJACENT SPLICES, IF BARS ARE SPACED CLOSER THAN 6" OR 6-BAR DIAMETERS. NON-CONTACT LAP SPLICES SHALL NOT BE SPACED FARTHER APART THAN ONE-FIFTH THE REQUIRED LENGTH OF LAP OR 6" WHEN REINFORCING BARS OF DIFFERENT SIZES ARE TO BE SPLICED, THE LENGTH OF LAP SHALL BE GOVERNED BY THE SMALLER DIAMETER BAR. SPLICES ARE TO BE MADE SO THAT THE GIVEN DISTANCES TO FACE OF CONCRETE WILL BE MAINTAINED. SPLICE LENGTHS SHOWN ON THE TABLE OF SPLICE AND EMBEDMENT LENGTHS ARE FOR CLASS B SPLICES, SPACED AT LEAST 6" ON CENTERS, IN ACCORDANCE WITH ACI-318-02. SPLICES REQUIRING LAP LENGTHS OTHER THAN THOSE FOR CLASS B MUST BE DETAILED ON THE REINFORCEMENT DESIGN DRAWINGS.
- HOOKS SHALL HAVE 180° BENDS AND EXTENSIONS OF 4-BAR DIAMETERS, BUT NOT LESS THAN 2 1/2" PARALLEL TO THE MAIN LEG OF THE BAR OF 90° BENDS AND EXTENSIONS OF AT LEAST 12-BAR DIAMETERS. HOOKS FOR STIRRUPS AND TIE ANCHORAGES ONLY SHALL HAVE EITHER A 90° OR 135° BEND, PLUS AN EXTENSION OF AT LEAST 6-BAR DIAMETERS, BUT NOT LESS THAN 2 1/2" AT THE FREE END OF THE BAR. RADIUS OF BEND TO BE AS SPECIFIED IN THE TABLE OF PIN DIAMETERS. PROVIDE STANDARD ACI HOOK IF STRAIGHT EXTENSION PART OPENING CANNOT BE OBTAINED.
- ONLY BILLET STEEL OR AXLE STEEL SHALL BE USED FOR BARS TO BE BENT. UNLESS OTHER RADIUS BENDS ARE INDICATED ON THE DESIGN DRAWINGS, ALL REINFORCEMENT REQUIRING BENDING SHALL BE BENT AROUND A PIN HAVING THE DIAMETER SHOWN IN THE TABLE OF PIN DIAMETERS. AREA OF ADDITIONAL BARS OF EACH DIRECTIONAL SHALL MATCH 1/2 THE CROSS SECTIONAL AREA OF INTERRUPTED BARS.
- CONCRETE FOR CLASS AA 4000 PSI SHALL MEET THE FOLLOWING TERTIARY REQUIREMENTS:  
CONCRETE,  $f_c = 4000$  PSI AT 28-DAYS. STEEL REINFORCEMENT (CONFORM TO ASTM A-615). BAR,  $f_s = 24,000$  PSI (GRADE 60).
- CONCRETE FOR CLASS A 3000 PSI SHALL MEET THE FOLLOWING TERTIARY REQUIREMENTS:  
CONCRETE,  $f_c = 3000$  PSI AT 28-DAYS. STEEL REINFORCEMENT (CONFORM TO ASTM A-615). BAR,  $f_s = 24,000$  PSI (GRADE 60).

### TABLE OF SPLICE AND EMBEDMENT LENGTHS

BAR #	MIN CENTER TO CENTER BAR SPACING (INCHES)	FOR CONCRETE WITH $f_c = 4000$ PSI				REBAR $f_s$ PSI
		LENGTH $l_e$ OF LAPPED SPLICE (INCHES)		DEVELOPMENT LENGTH $l_d$ (INCHES)		
		TOP BARS*	OTHER BARS	TOP BARS*	OTHER BARS	
3	1 1/8	24	19	19	15	24,000 (GRADE 60)
4	1 1/2	32	25	25	19	
5	1 7/8	40	31	31	24	
6	2 1/4	48	37	37	29	
7	2 5/8	70	54	54	42	
8	3	80	62	62	48	
9	3 3/8	91	70	70	54	

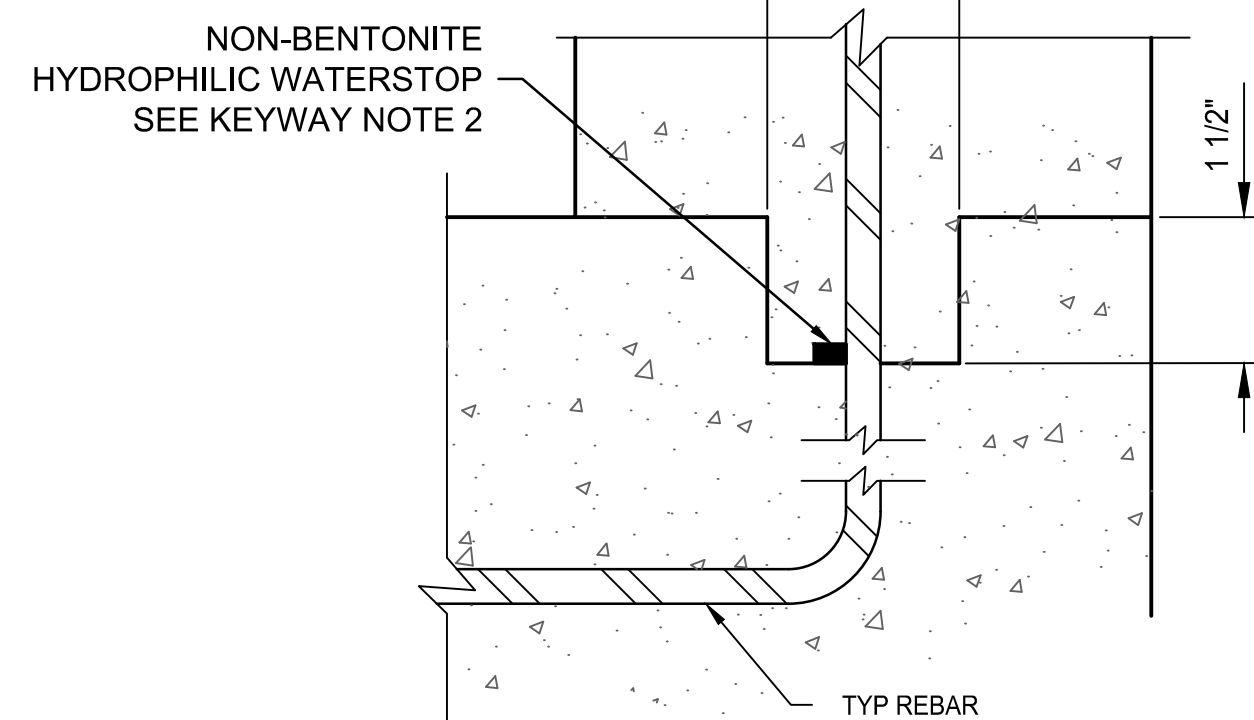
### TABLE OF SPLICE AND EMBEDMENT LENGTHS

BAR #	MIN CENTER TO CENTER BAR SPACING (INCHES)	FOR CONCRETE WITH $f_c = 3000$ PSI				REBAR $f_s$ PSI
		LENGTH $l_e$ OF LAPPED SPLICE (INCHES)		DEVELOPMENT LENGTH $l_d$ (INCHES)		
		TOP BARS*	OTHER BARS	TOP BARS*	OTHER BARS	
3	3	20	16	15	12	24,000 (GRADE 60)
4	3	26	20	20	16	
5	4	33	25	25	20	
6	5	40	31	31	24	
7	6	58	44	44	34	
8	6	66	51	51	39	
9	7	74	57	57	44	

\* TOP BARS ARE HORIZONTAL BARS IN BEAMS AND SLABS SO PLACED THAT MORE THAN 1 FOOT OF CONCRETE IS IN THE MEMBER BELOW THE BAR.

### TABLE OF PIN DIAMETERS (IN INCHES)

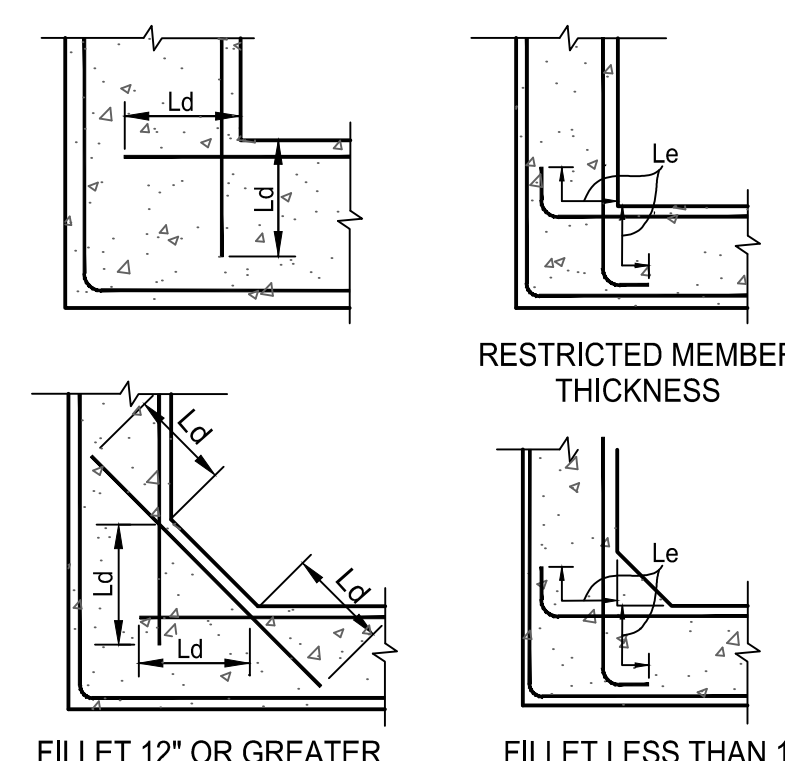
BAR #	3	4	5	6	7	8	9	10	11
STANDARD BENDS	2-1/2	3	3-3/4	4-1/2	5-1/4	6	9-1/2	10-3/4	12
STIRRUP & TIE BENDS	1-1/2	2	2-1/2	4-1/2	5-1/4	6	-	-	-



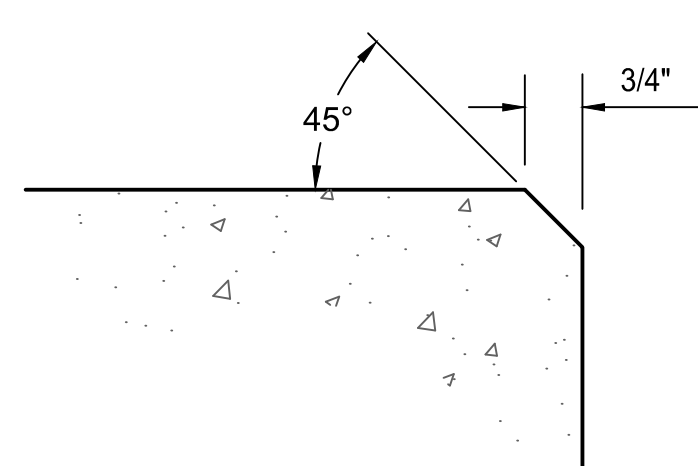
### Keyway Notes

- KEYWAY NOT REQUIRED FOR MONOLITHIC SECTIONS.
- WATERSTOP SHALL BE ADEKA ULTRA SEAL KBA-1510FP OR APPROVED EQUIVALENT (OAE). INSTALL PER MANUFACTURER'S INSTRUCTIONS. CLEAN SURFACE OF PIPE AND ADHERE WITH 3M 2141 RUBBER ADHESIVE (OAE). LAP ENDS 2", AND SEAL WITH P-201 (OAE).

KEYWAY NTS



TYPICAL CORNER DETAILS NTS



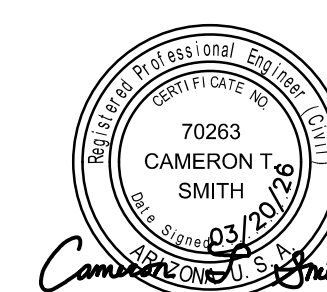
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HAR/BJH GGB CTS 03.20.26

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Client/Project

ROOSEVELT IRRIGATION DISTRICT  
LATERAL 8EL & 8WW

ADOT LOOP 303  
PACKAGE 2

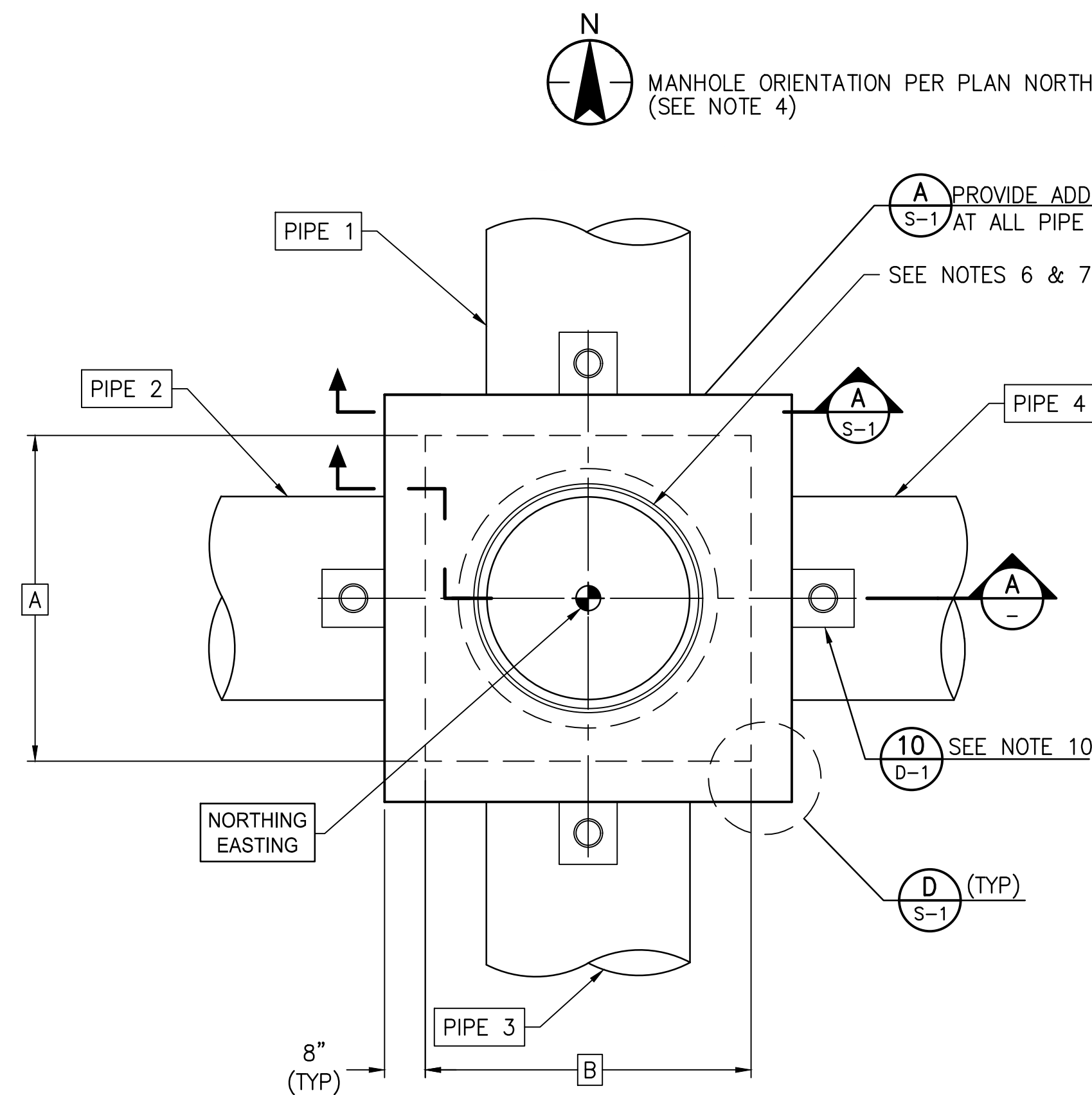
Goodyear, Arizona

Title

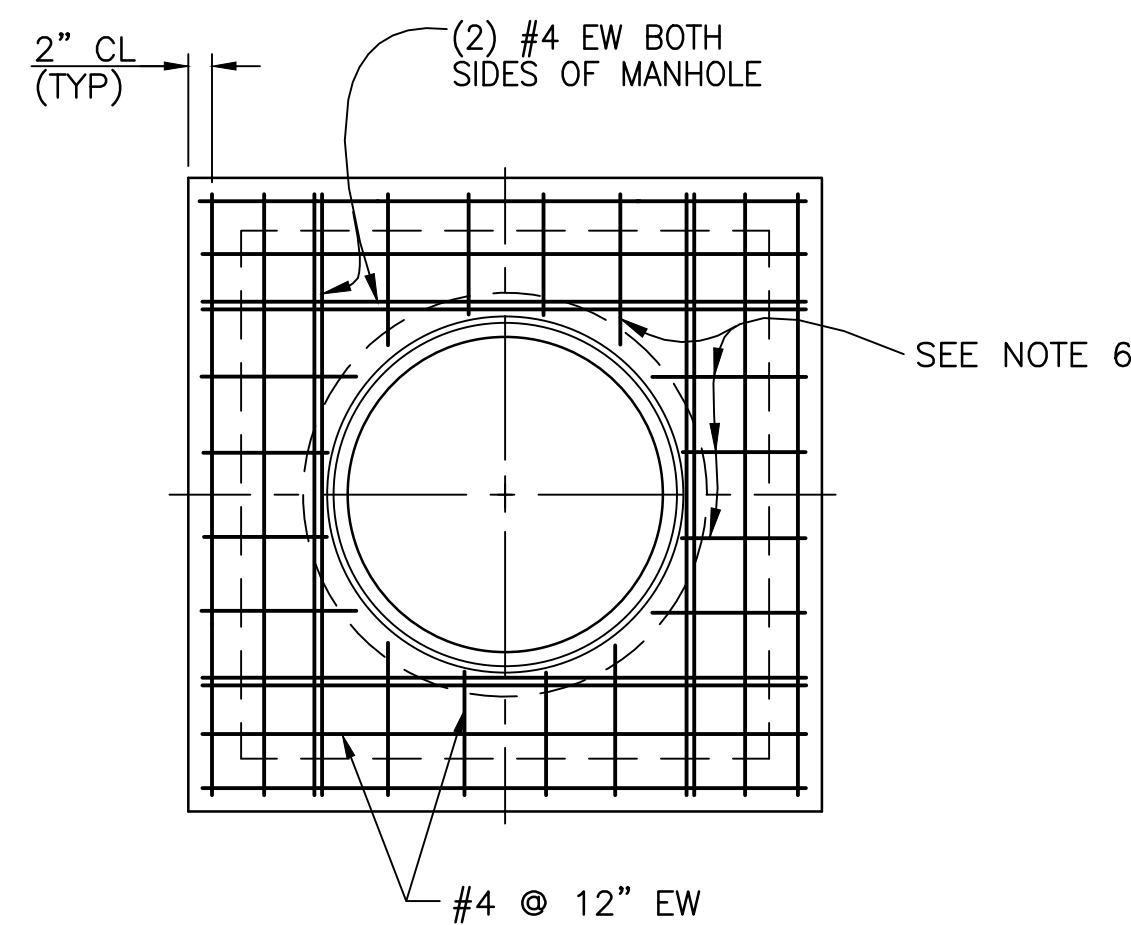
CONCRETE DETAILS

Project No. 181301643 Scale AS SHOWN  
Drawing No. Sheet Revision

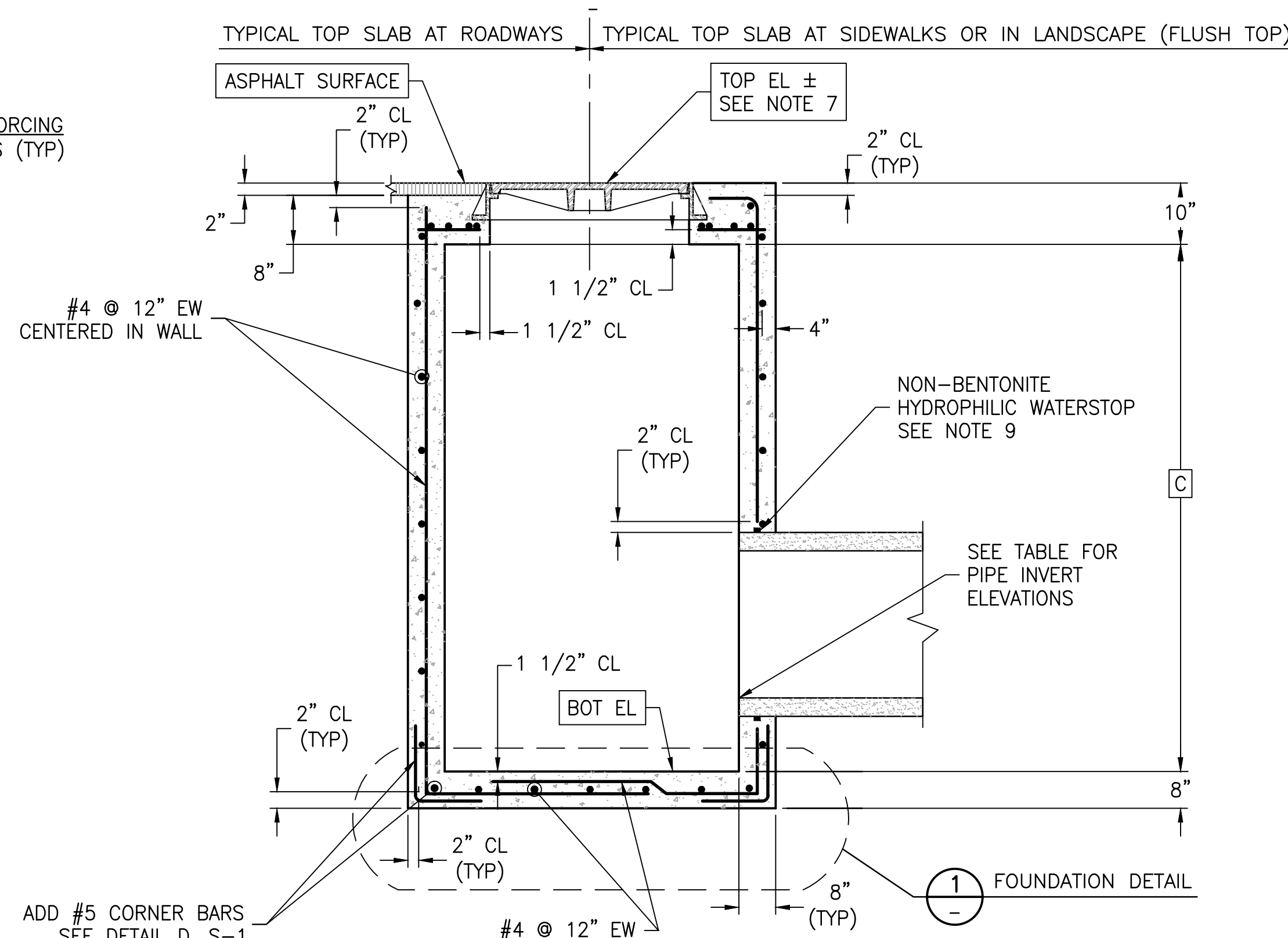
MANHOLE NO	NORTHING EASTING	REF DWG NO	PIPE 1		PIPE 2		PIPE 3		PIPE 4		DIMENSIONS			TOP SLAB			
			TOP EL	BOT EL	TYPE	INV EL	TYPE	INV EL	TYPE	INV EL	TYPE	INV EL	A	B	C	ROADWAY	FLUSH TOP
1	873972.32 538786.28	P-1	899.60	891.80	-	-	18" RGRCP CL V	896.5	-	-	30" RGRCP CL V	892.8	4'-0 0/8"	4'-0 0/8"	6'-11 5/8"	-	X
7	876422.91 541756.12	P-4	911.40	905.50	30" DR41 C905 PVC	906.50	-	-	30" RGRCP CL V	906.50	-	-	4'-0 0/8"	4'-0 0/8"	5'-0 6/8"	-	X



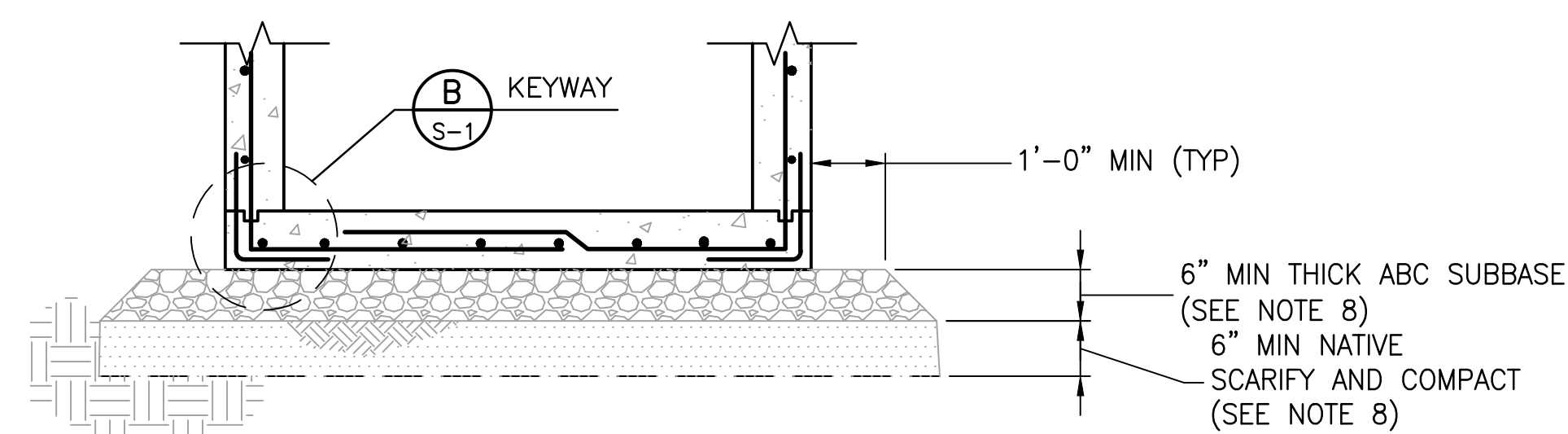
**MANHOLE PLAN**  
NTS



**TOP SLAB REINFORCING PLAN**  
NTS



**A SECTION**  
NTS



**1 FOUNDATION DETAIL**  
NTS

Notes

- ALL STRUCTURAL CONCRETE SHALL BE CLASS AA (4,000 PSI) PER MAG SPECIFICATION SECTION 725.
- REINFORCING STEEL BARS SHALL CONFORM TO ASTM A-615 GRD 60.
- CONCRETE SHALL BE PLACED WITH NO COLD JOINTS. ALL CONCRETE SHALL BE VIBRATED DURING PLACEMENT.
- SEE PLAN AND PROFILE DRAWING FOR CORRECT ORIENTATION OF MANHOLE.
- THE NOTED TOP ELEVATION AT THE CENTER OF THE MANHOLE COVER HAS BEEN DETERMINED FROM THE DEVELOPER'S PAVING AND/OR GRADING PLANS. THE EXACT TOP ELEVATION OF THE MANHOLE SHALL BE ESTABLISHED AND STAKED IN THE FIELD BY THE DEVELOPER'S ENGINEER AND/OR CONTRACTOR TO CONFORM TO FINAL ROADWAY, SIDEWALK, OR FINISHED GROUND SURFACE ELEVATIONS. ADJUST DIMENSION C AS REQUIRED TO MATCH THE APPROPRIATE ADJACENT FINISHED GRADE.
- FIELD CUT REBAR AT MANHOLE AT FRAME AND PIPE PENETRATIONS.
- 30" BOLTED MANHOLE FRAME AND COVER SHALL BE SUPPLIED BY ROOSEVELT IRRIGATION DISTRICT FOR INSTALLATION BY THE CONTRACTOR. THE CONTRACTOR SHALL REIMBURSE THE DISTRICT FOR THE TOTAL INVOICED COST OF THE FRAME AND COVER.
- MINIMUM COMPACTION FOR ABC-BASE AND NATIVE SUBBASE SHALL BE 95% OF MAX DENSITY PER ASTM D-698 AT +2% TO -4% OF OPTIMUM MOISTURE CONTENT.
- WATERSTOP SHALL BE ADEKA ULTRA SEAL KBA-1510FP OR APPROVED EQUIVALENT (OAE), INSTALL PER MANUFACTURER'S INSTRUCTIONS. CLEAN SURFACE OF PIPE AND ADHERE WITH 3M-2141 RUBBER ADHESIVE (OAE). LAP ENDS 2", AND SEAL WITH P-201 (OAE).
- INSTALL TRACER WIRE BOX WHEN PIPE RUNS EXCEED 50' OR AT THE DIRECTION OF THE CONSTRUCTION OBSERVER. FLUSH WITH TOP OF STRUCTURE. SEE DETAIL 10, DWG D-1.

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Chandler, AZ 85226 USA  
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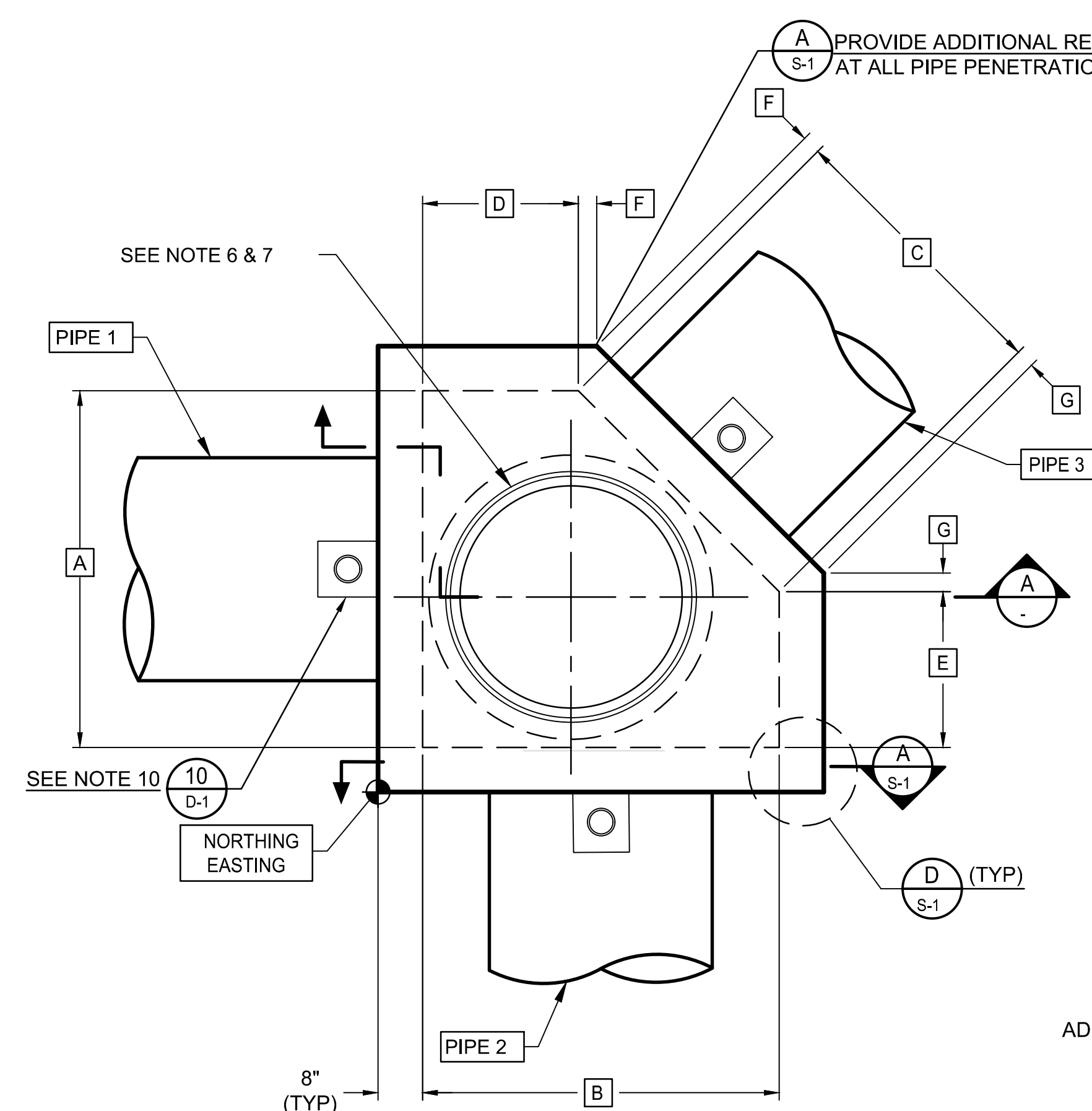
Client/Project  
 ROOSEVELT IRRIGATION DISTRICT  
 LATERAL 8EL & 8WW  
 ADOT LOOP 303  
 PACKAGE 2  
 Goodyear, Arizona

Title  
**MANHOLE DETAILS**

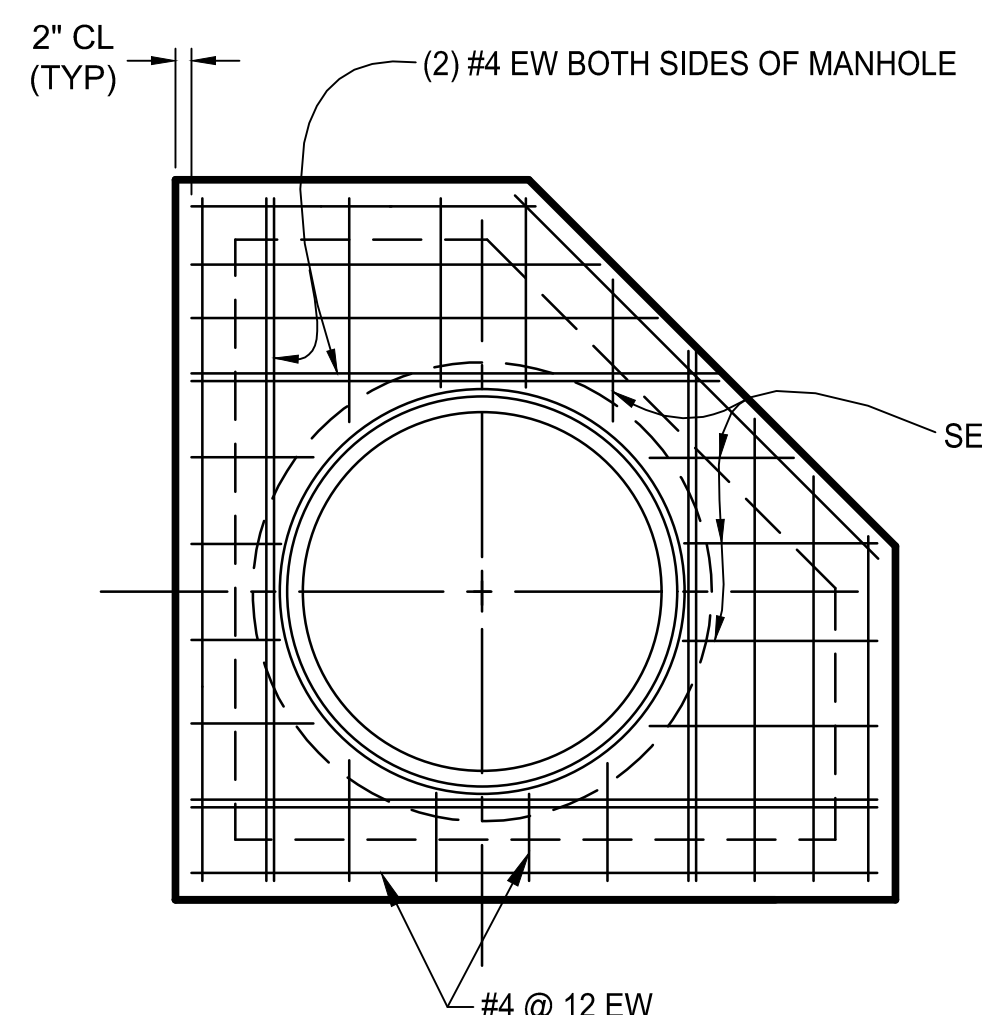
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Drawing No. S-2	Sheet 16 of 19
	Revision 0

## MANHOLE SCHEDULE

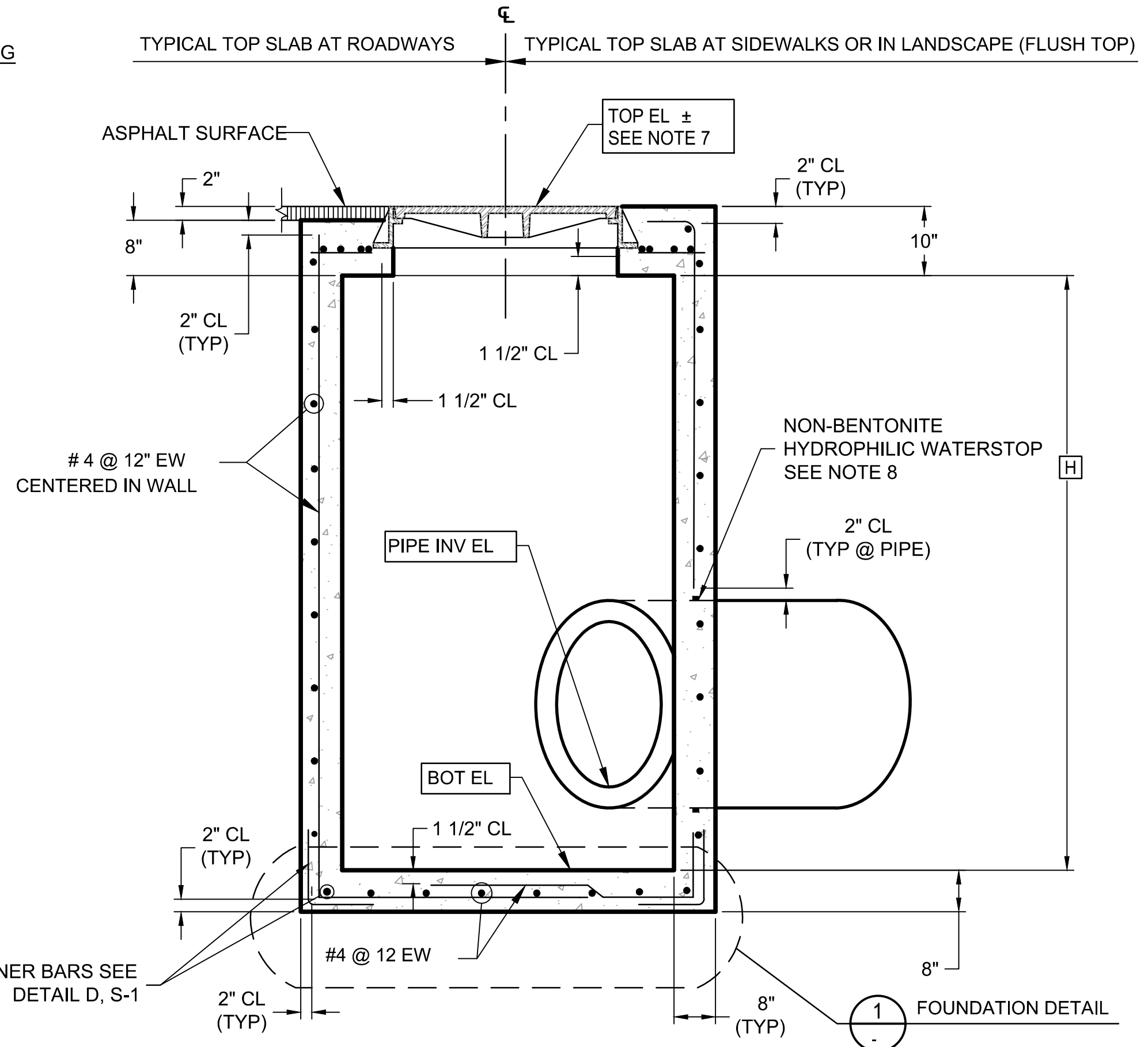
MANHOLE NO	NORTHING EASTING	REF DWG NO	PIPE 1		PIPE 2		PIPE 3		DIMENSIONS								TOP SLAB			
			TOP EL	BOT EL	TYPE	INV EL	TYPE	INV EL	TYPE	INV EL	A	B	C	D	E	F	G	H	ROADWAY	FLUSH TOP
2	874436.12 539181.70	P-2	898.60	890.60	-	-	30" RGRCP CL V	893.80	30" RGRCP CL V	893.10	4'-6 7/8"	4'-6 7/8"	4'-0 0/8"	1'-9 0/8"	1'-9 0/8"	0'-3 2/8"	0'-3 2/8"	7'-2 0/8"	-	X
3	874559.72 539233.56	P-2	901.50	893.20	-	-	EXIST 42" RGRCP	894.80	30" RGRCP CL V	894.20	5'-0 0/8"	5'-0 0/8"	5'-0 0/8"	1'-5 3/8"	1'-5 3/8"	0'-3 2/8"	0'-3 2/8"	7'-5 5/8"	-	X
4	877236.54 541756.91	P-5	912.90	905.90	-	-	30" DR41 C905 PVC	906.90	30" RGRCP CL V	908.30	4'-6 7/8"	4'-6 7/8"	4'-0 0/8"	1'-9 0/8"	1'-9 0/8"	0'-3 2/8"	0'-3 2/8"	6'-2 0/8"	-	X
5	877254.58 541774.96	P-5	915.40	907.40	-	-	EXIST 30" RGRCP	910.60	30" RGRCP CL V	908.40	4'-6 7/8"	4'-6 7/8"	4'-0 0/8"	1'-9 0/8"	1'-9 0/8"	0'-3 2/8"	0'-3 2/8"	7'-2 0/8"	-	X
6	876040.81 541767.47	P-4	911.00	905.30	EXIST 24" RGRCP	906.3	-	-	30" RGRCP CL V	906.30	4'-6 7/8"	4'-6 7/8"	4'-0 0/8"	1'-9 0/8"	1'-9 0/8"	0'-3 2/8"	0'-3 2/8"	4'-10 3/8"	-	X



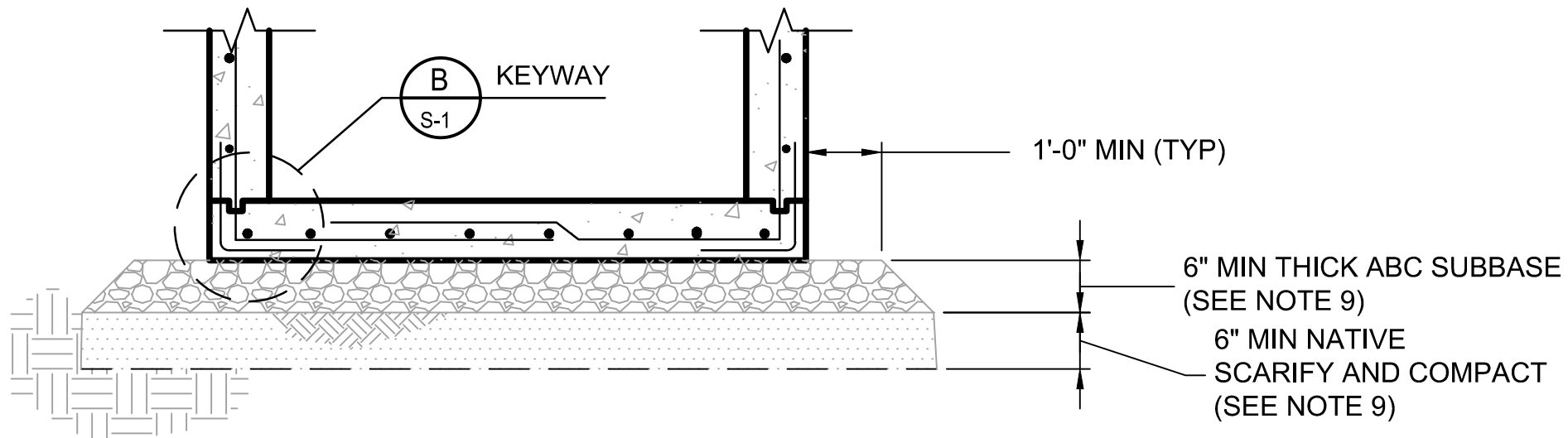
5-SIDED MANHOLE PLAN  
NTS



TOP SLAB REINFORCING PLAN  
NTS



SECTION  
NTS



FOUNDATION DETAIL  
NTS

- Notes
- ALL STRUCTURAL CONCRETE SHALL BE CLASS AA (4,000 PSI) PER MAG SPECIFICATION SECTION 725.
  - REINFORCING STEEL BARS SHALL CONFORM TO ASTM A-615 GRD 60.
  - CONCRETE SHALL BE PLACED WITH NO COLD JOINTS. ALL CONCRETE SHALL BE VIBRATED DURING PLACEMENT.
  - SEE PLAN AND PROFILE DRAWING FOR CORRECT ORIENTATION OF MANHOLE.
  - THE NOTED TOP ELEVATION AT THE CENTER OF THE MANHOLE COVER HAS BEEN DETERMINED FROM THE DEVELOPER'S PAVING AND/OR GRADING PLANS. THE EXACT TOP ELEVATION OF THE MANHOLE SHALL BE ESTABLISHED AND STAKED IN THE FIELD BY THE DEVELOPER'S ENGINEER AND/OR CONTRACTOR TO CONFORM TO FINAL ROADWAY, SIDEWALK OR FINISHED GROUND SURFACE ELEVATIONS. ADJUST DIMENSION HAS REQUIRED TO MATCH THE APPROPRIATE ADJACENT FINISHED GRADE.
  - FIELD CUT REBAR AT MANHOLE FRAME AND PIPE PENETRATIONS.
  - 30" BOLTED MANHOLE FRAME AND COVER SHALL BE SUPPLIED BY ROOSEVELT IRRIGATION DISTRICT FOR INSTALLATION BY THE CONTRACTOR. THE CONTRACTOR SHALL REIMBURSE THE DISTRICT FOR THE TOTAL INVOICED COST OF THE FRAME AND COVER.
  - WATERSTOP SHALL BE ADEKA ULTRA SEAL KBA-1510FP OR APPROVED EQUIVALENT (OAE). INSTALL PER MANUFACTURER'S INSTRUCTIONS. CLEAN SURFACE OF PIPE AND ADHERE WITH 3M-2141 RUBBER ADHESIVE (OAE). LAP ENDS 2", AND SEAL WITH P-201 (OAE).
  - MINIMUM COMPACTION FOR ABC-BASE AND NATIVE SUBBASE SHALL BE 95% OF MAX DENSITY PER ASTM D-698 AT +2% TO -4% OF OPTIMUM MOISTURE CONTENT.
  - INSTALL TRACER WIRE BOX WHEN PIPE RUNS EXCEED 50' OR AT THE DIRECTION OF THE CONSTRUCTION OBSERVER. FLUSH WITH TOP OF STRUCTURE. SEE DETAIL 10, DWG D-1.

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Dwn. Chkd. Dsgn. MM.DD.YY

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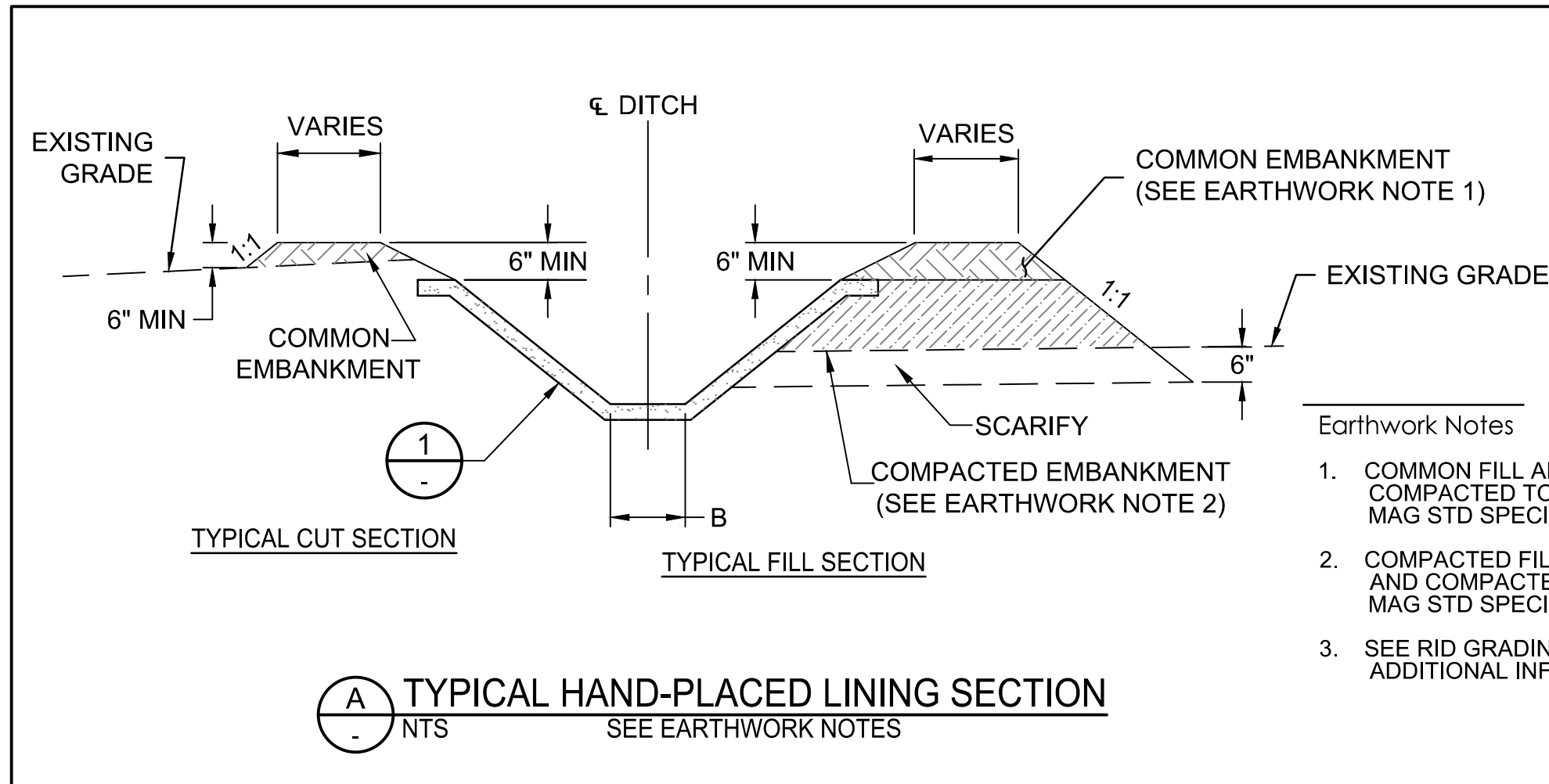
Expires 12/31/2028

Client/Project  
ROOSEVELT IRRIGATION DISTRICT  
LATERAL 8EL & 8WW  
ADOT LOOP 303  
PACKAGE 2  
Goodyear, Arizona

Title  
5-SIDED MANHOLE DETAILS

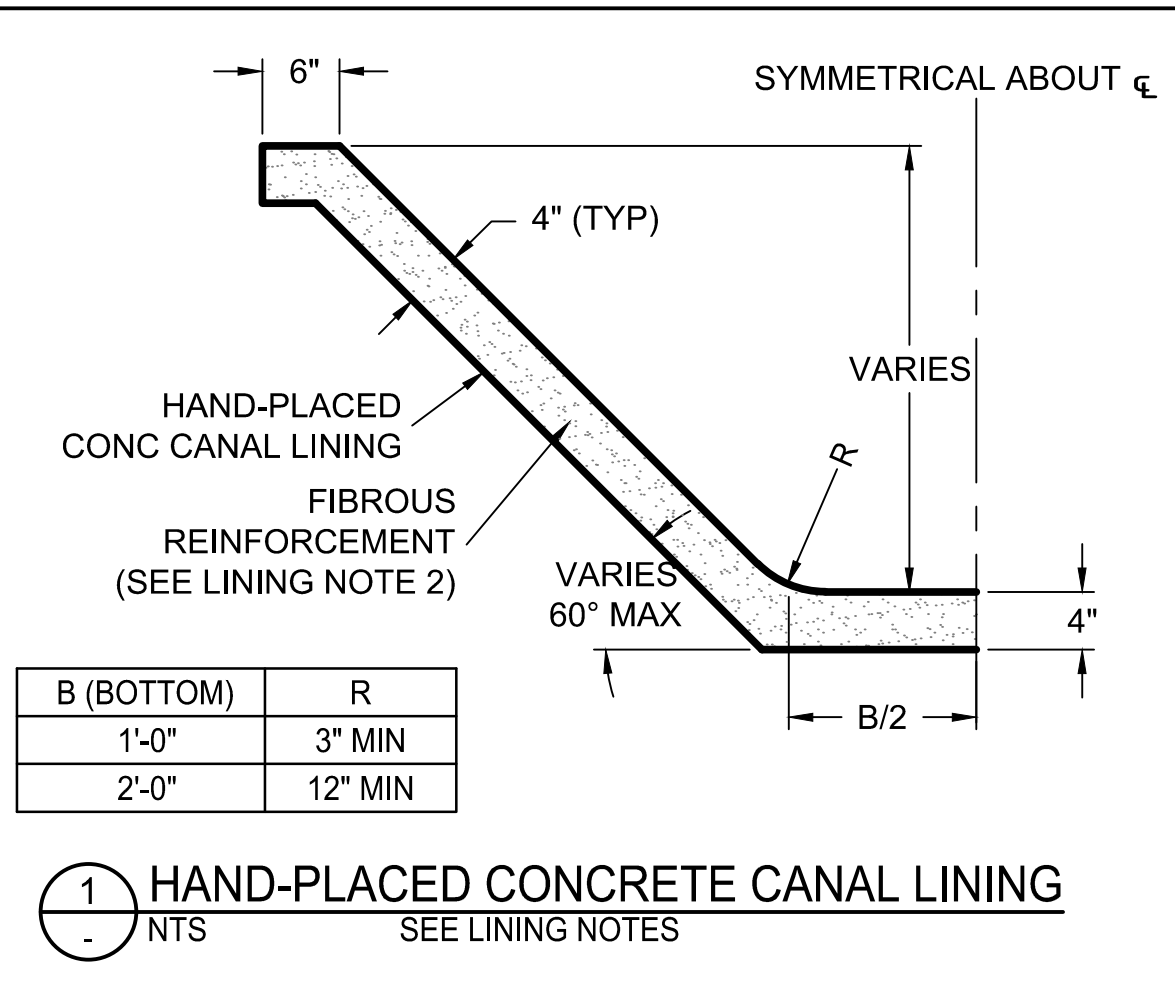
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Drawing No. S-3  
Sheet 17 of 19  
Revision 0

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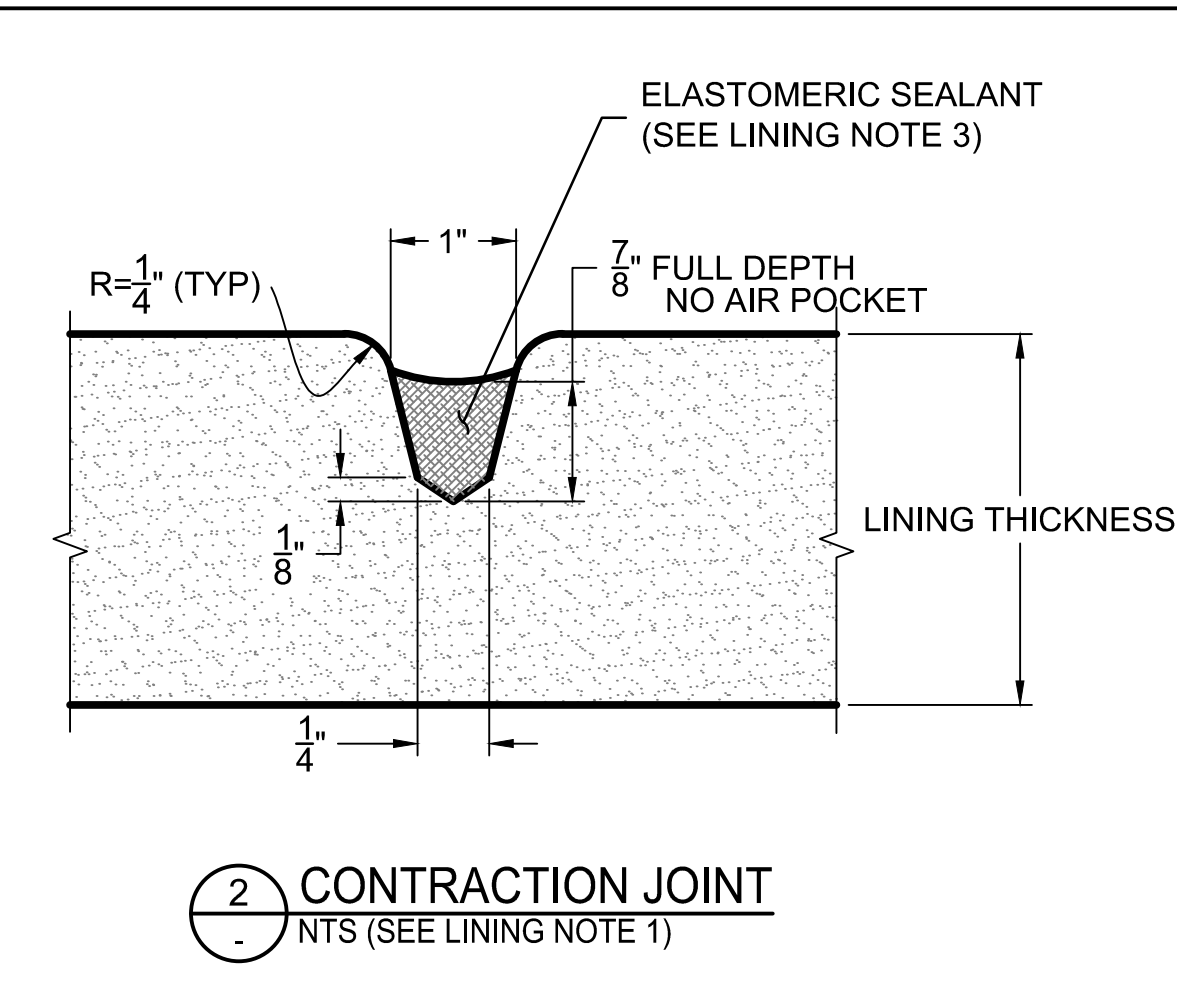
**1** TYPICAL HAND-PLACED LINING SECTION  
NTS SEE EARTHWORK NOTES

- Earthwork Notes**
- COMMON FILL AND BACKFILL SHALL BE PLACED AND COMPACTED TO 90% MIN UNIFORM DENSITY PER MAG STD SPECIFICATIONS 211.2 AND 211.3.
  - COMPACTED FILL AND BACKFILL SHALL BE PLACED AND COMPACTED TO 95% MIN UNIFORM DENSITY PER MAG STD SPECIFICATIONS 211.2 AND 211.3.
  - SEE RID GRADING NOTES ON DWG G-2 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.



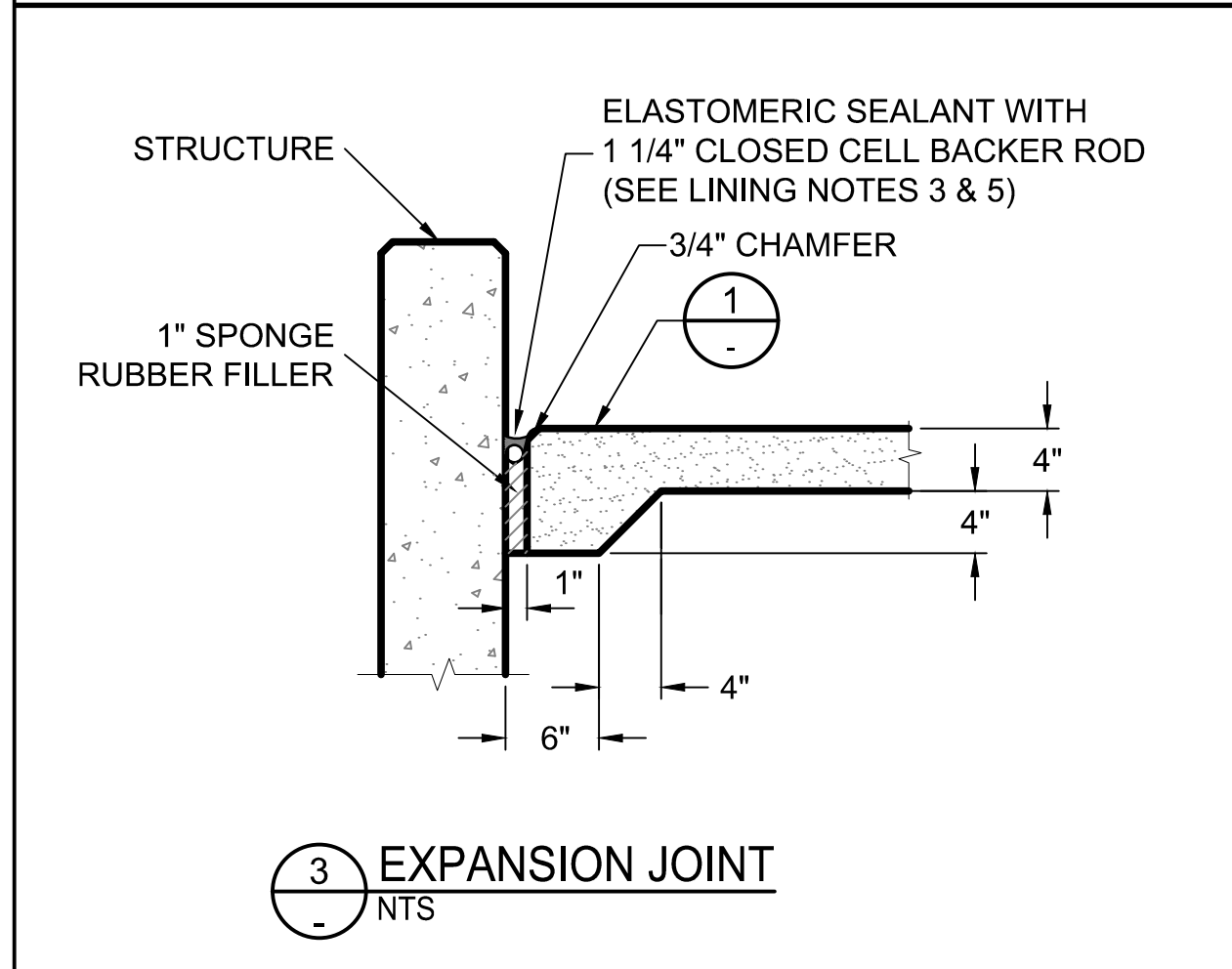
**1** HAND-PLACED CONCRETE CANAL LINING  
NTS SEE LINING NOTES

B (BOTTOM)	R
1'-0"	3" MIN
2'-0"	12" MIN

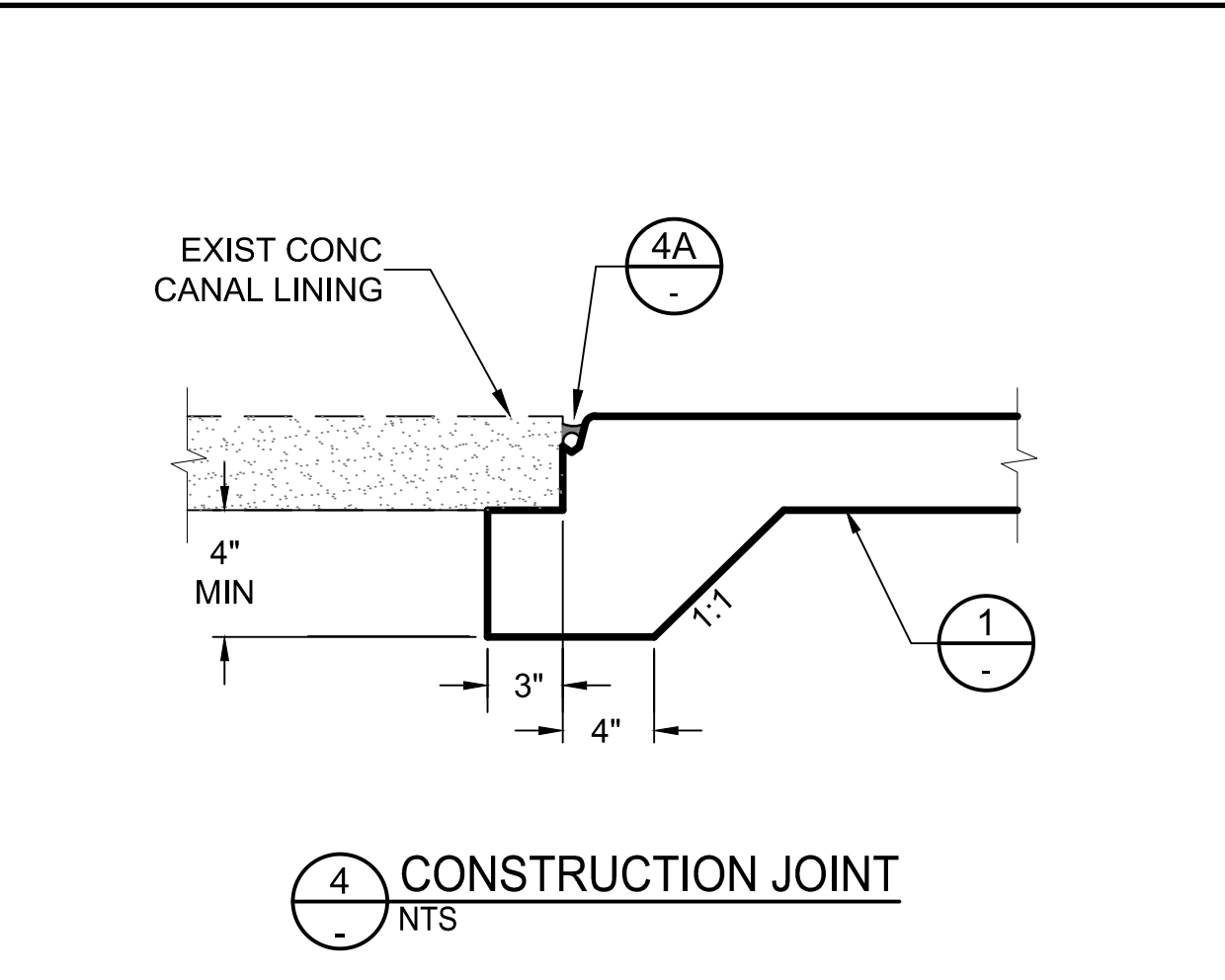


**2** CONTRACTION JOINT  
NTS (SEE LINING NOTE 1)

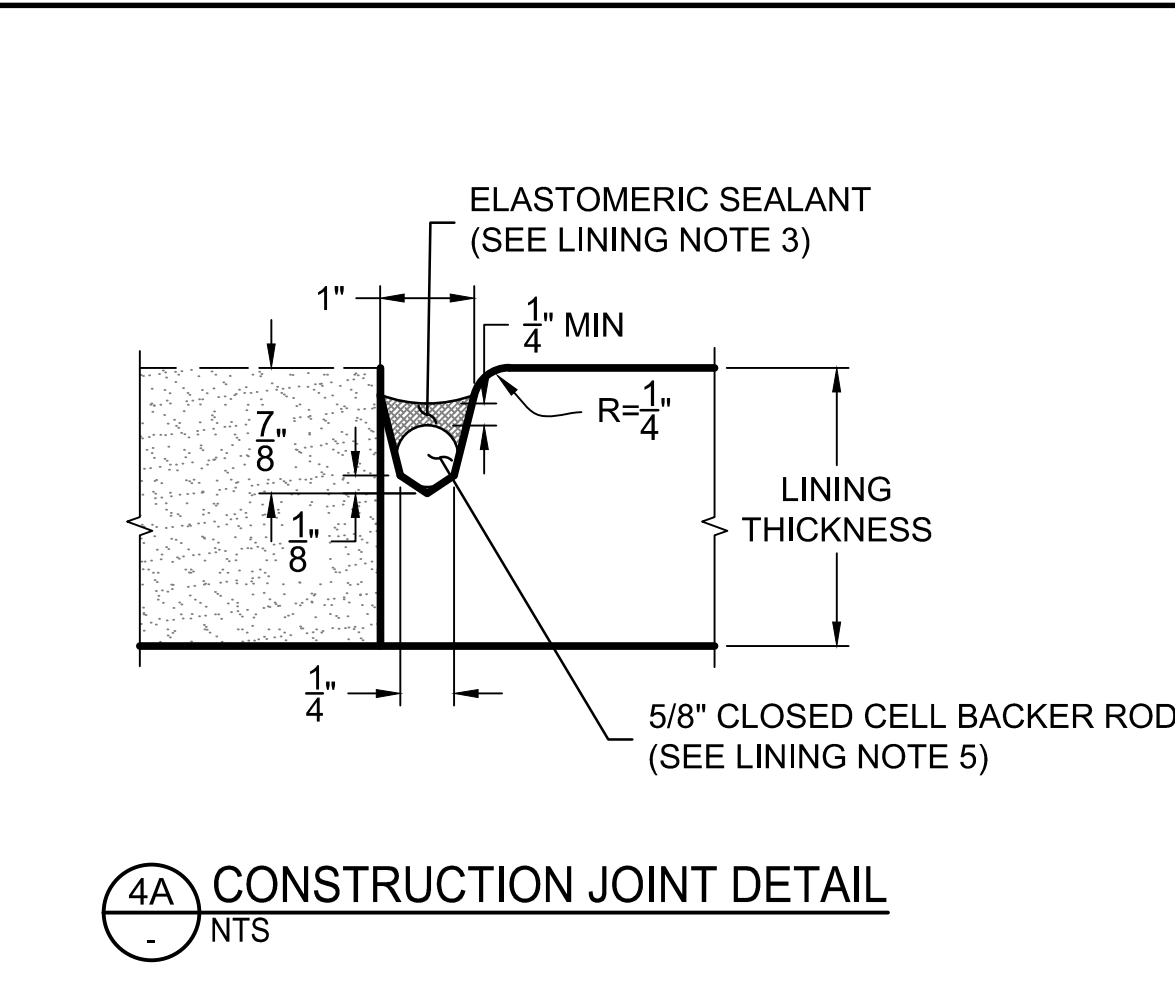
- Lining Notes**
- CONTRACTION JOINTS IN CONCRETE LINING SHALL BE CONSTRUCTED TRANSVERSELY AT 10 FOOT INTERVALS PER DETAIL 2.
  - FIBROUS REINFORCEMENT SHALL HAVE THE FOLLOWING CHARACTERISTICS:
    - a. SPECIFIC GRAVITY 0.91
    - b. TENSILE STRENGTH 55 ksi
    - c. FIBER LENGTH GRADED 1/4" TO 3/4" THE APPLICATION RATE FOR THE FIBERS IS 1.5 POUNDS PER CUBIC YARD.
  - THE ELASTOMERIC SEALANT SHALL BE SIKAFLEX 2C OR APPROVED EQUIVALENT.
  - ALL CONCRETE FOR CANAL LINING SHALL BE CLASS A (3000 PSI) PER MAG STD SPECIFICATION SECTION 725.
  - BACKER ROD SHALL BE HIGHWAY BACKER ROD BY NOMACO, ZEBULON, NORTH CAROLINA OR APPROVED EQUIVALENT. INSTALL BACKER ROD IN JOINT PER MANUFACTURER'S INSTRUCTIONS.



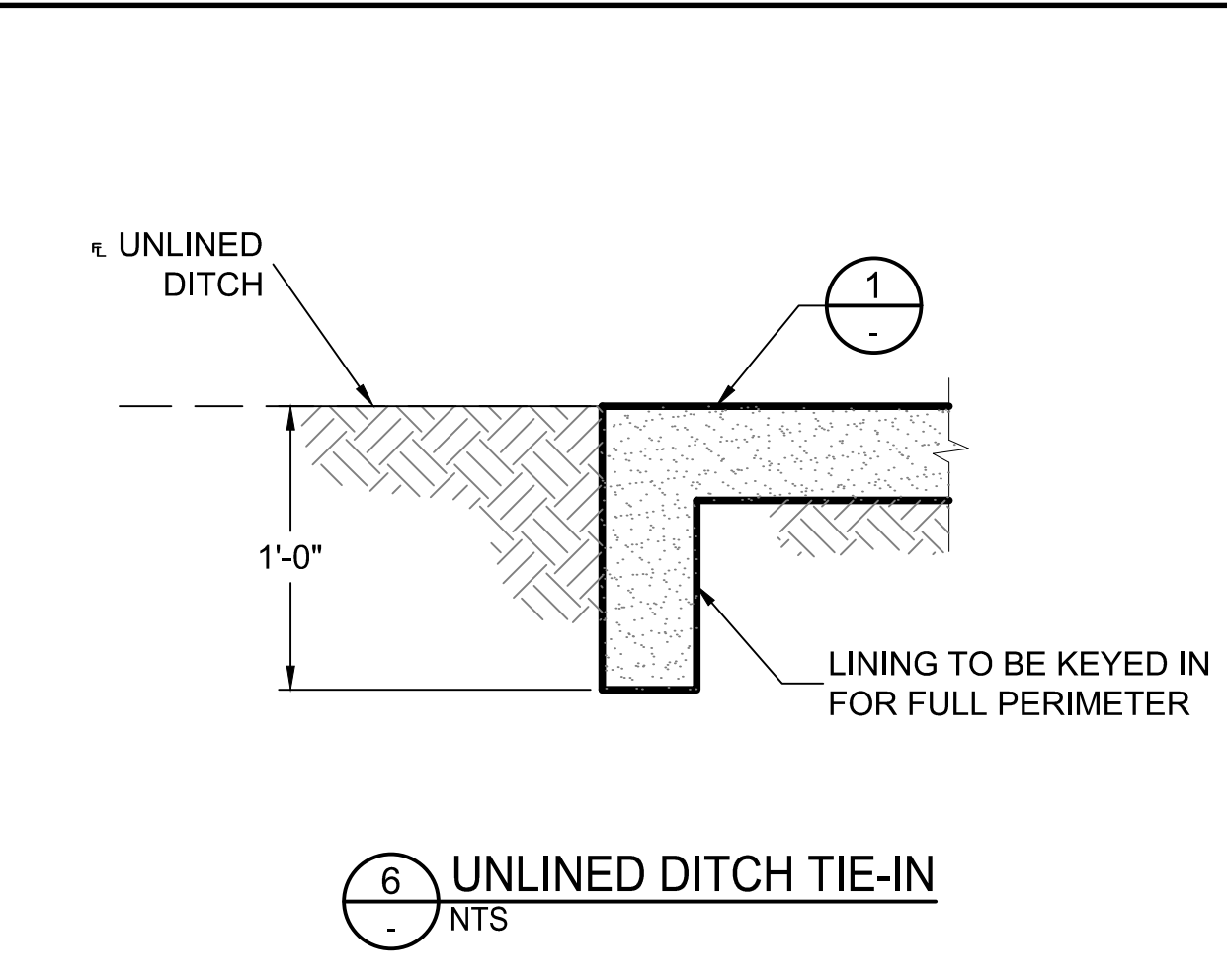
**3** EXPANSION JOINT  
NTS



**4** CONSTRUCTION JOINT  
NTS

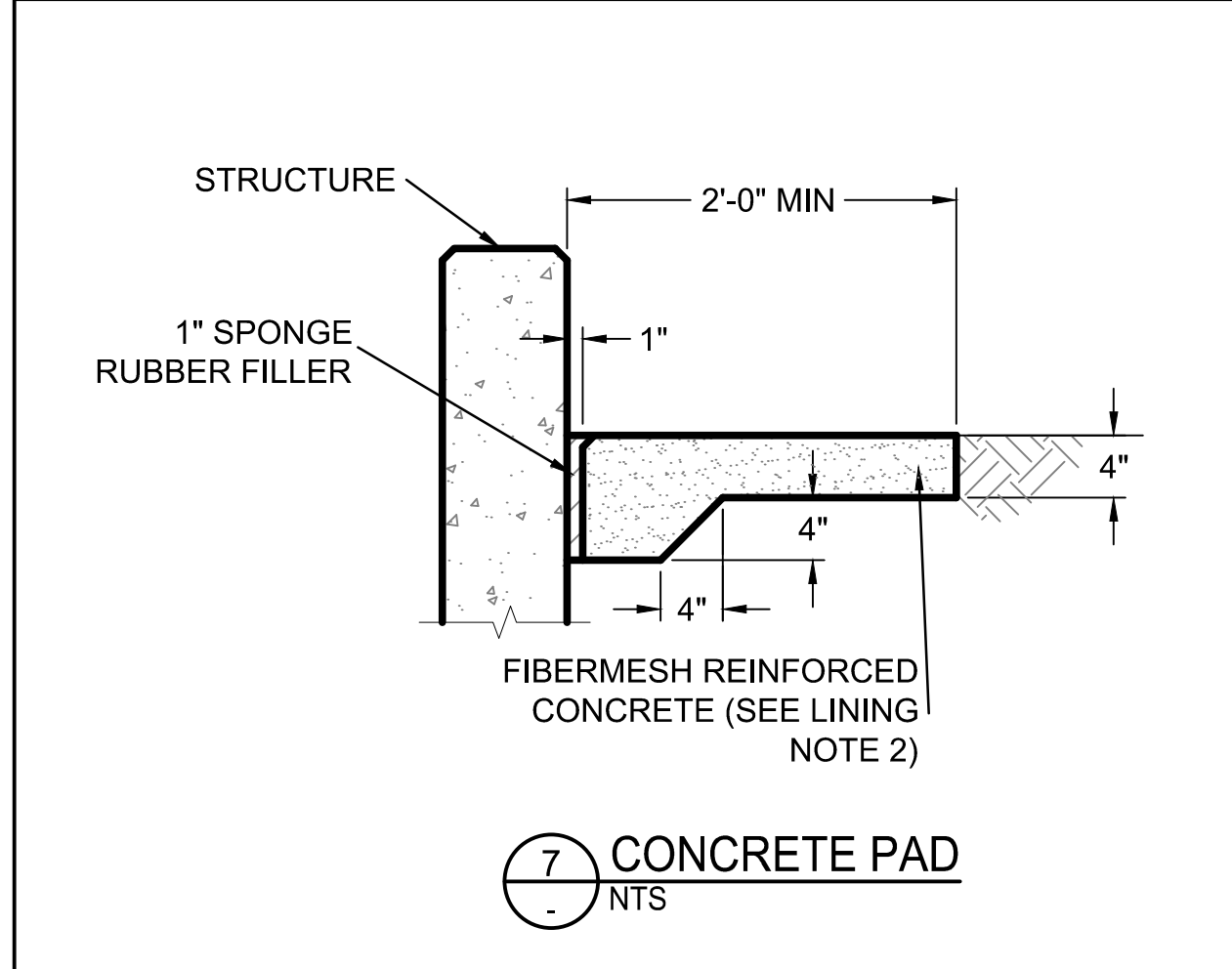


**4A** CONSTRUCTION JOINT DETAIL  
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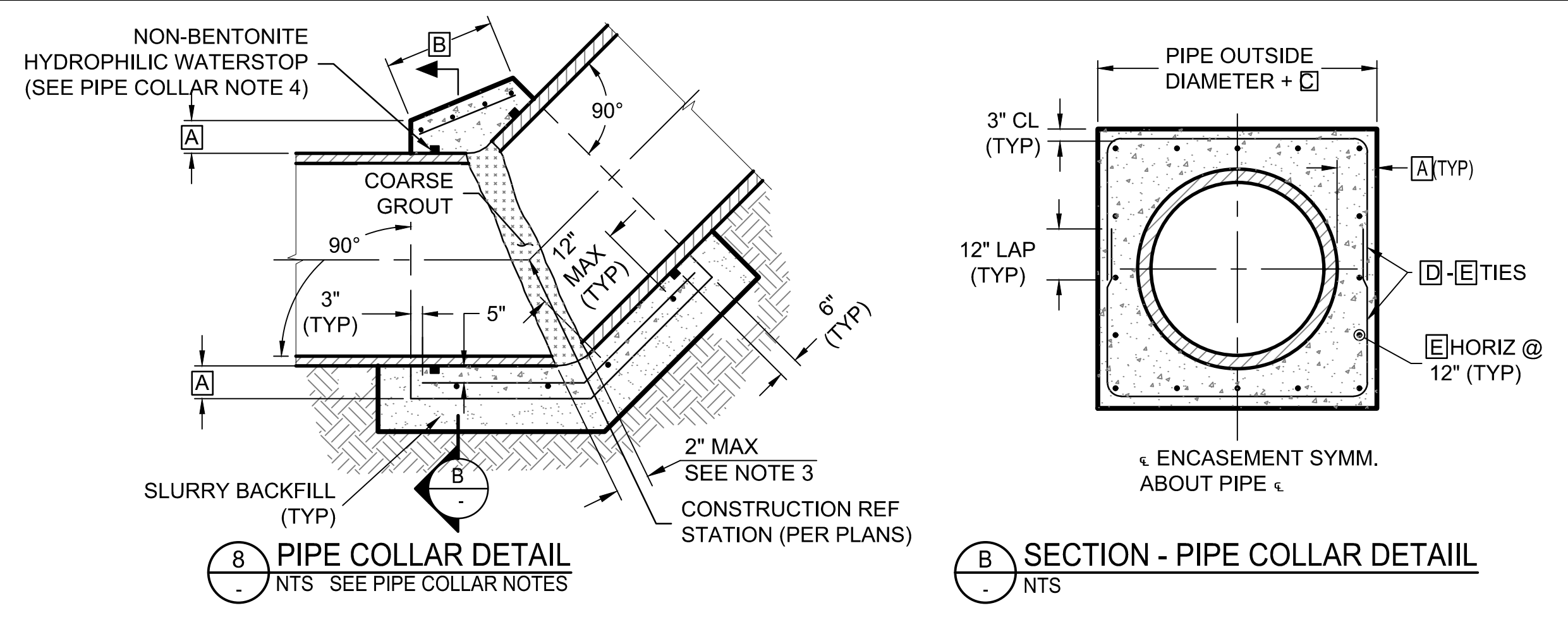


**6** UNLINED DITCH TIE-IN  
NTS

- Trenching Notes**
- CONTRACTORS CHOOSING TO COMPACT HAUNCHING AREA BY WATER CONSOLIDATION METHOD SHALL BE REQUIRED TO GIVE PROPER NOTICE TO RID'S CONSTRUCTION OBSERVER SUCH THAT CONFORMANCE TO MAG STD SPEC 601.4.7 IS OBSERVED.
  - BACKFILL MATERIAL SHALL BE PLACED IN LIFTS AS DESIGNATED IN THE PIPE TRENCH DETAIL AND COMPACTED PER THE DENSITY REQUIREMENTS OF BACKFILL TYPE I SHOWN ON MAG TABLE 601-2.
  - BEDDING AND HAUNCHING MATERIAL SHALL BE ABC PER MAG 702 OR APPROVED NATIVE SOIL. APPROVED NATIVE SOIL MUST PASS A 3/8 INCH SIEVE AND NOT MORE THAN 10 PERCENT OF WHICH PASSES A NO. 200 SIEVE. HAUNCHING AREA REQUIRES 95% COMPACTION (ASTM D698/D6938) SEE TRENCHING NOTE 1.
  - TRENCHING BENEATH EXISTING, PROPOSED AND/OR FUTURE PAVEMENT:
    - a. FULL DEPTH ABC-BACKFILL
    - b. 6" MIN PIPE BEDDING
    - c. COMPACT PER MAG STD SPEC 601.4-TYPE I
    - d. CLSM BACKFILL SHALL BE REQUIRED UNDER ALL PAVEMENT LOCATED WITHIN MCDOT & COG ROW.
  - TRACER WIRE SHALL BE 12-AWG SOLID, PRO-TRACE HF-CCS PE30. TRACER WIRE SHALL BE RATED FOR DIRECT BURIAL USE AND INSTALLED ON OUTSIDE TOP OF PIPE BETWEEN ALL IRRIGATION STRUCTURES. INSTALL ACCESS VAULT PER DETAIL 10 AT ALL IRRIGATION STRUCTURES. TRACER WIRE SHALL BE COLOR PURPLE. NO SPLICING ALLOWED.



**7** CONCRETE PAD  
NTS



**8** PIPE COLLAR DETAIL  
NTS SEE PIPE COLLAR NOTES

**B** SECTION - PIPE COLLAR DETAIL  
NTS

PIPE DIAMETER	PIPE COLLAR TABLE				
	A	B	C	D	E
12" TO 54"	10"	36"	20"	#4	#4
60" & LARGER	15"	48"	30"	#5	#5

- Pipe Collar Notes**
- NO SUBSTITUTIONS AND/OR CHANGES SHALL BE MADE WITHOUT OWNER'S ENGINEER'S APPROVAL.
  - CONCRETE PIPE COLLAR IS REQUIRED TO JOIN TWO PLAIN END PIPES (OF DIFFERENT DIAMETER OR MATERIALS) OR PIPES THAT CHANGE IN ALIGNMENT OR GRADE.
  - PIPE ENDS SHALL BE TRIMMED SUCH THAT THE MAXIMUM DISTANCE BETWEEN PIPES AT ANY POINT IS 2". THE JOINT SHALL BE GROUTED/SEALED AND ALLOWED TO CURE PRIOR TO CONCRETE PLACEMENT.
  - WATERSTOP SHALL BE ADEKA ULTRA SEAL KBA-1510FP OR APPROVED EQUIVALENT (OAE), INSTALL PER MANUFACTURER'S INSTRUCTIONS. CLEAN SURFACE OF PIPE AND ADHERE WITH 3M-2141 RUBBER ADHESIVE (OAE). LAP ENDS 2", AND SEAL WITH P-201 (OAE).
  - CONCRETE COLLARS SHALL BE FINISHED SMOOTH AND FLUSH WITH THE INSIDE SURFACE OF THE PIPE PRIOR TO PLACEMENT OF CONCRETE.
  - CONCRETE SHALL BE CLASS AA (4,000 PSI) PER MAG STD SPECIFICATION SECT 725 AND SHALL BE CONSOLIDATED BY MECHANICAL VIBRATOR OR EQUIVALENT.
  - REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
  - ALL FORMS SHALL BE REMOVED PRIOR TO BACKFILLING.

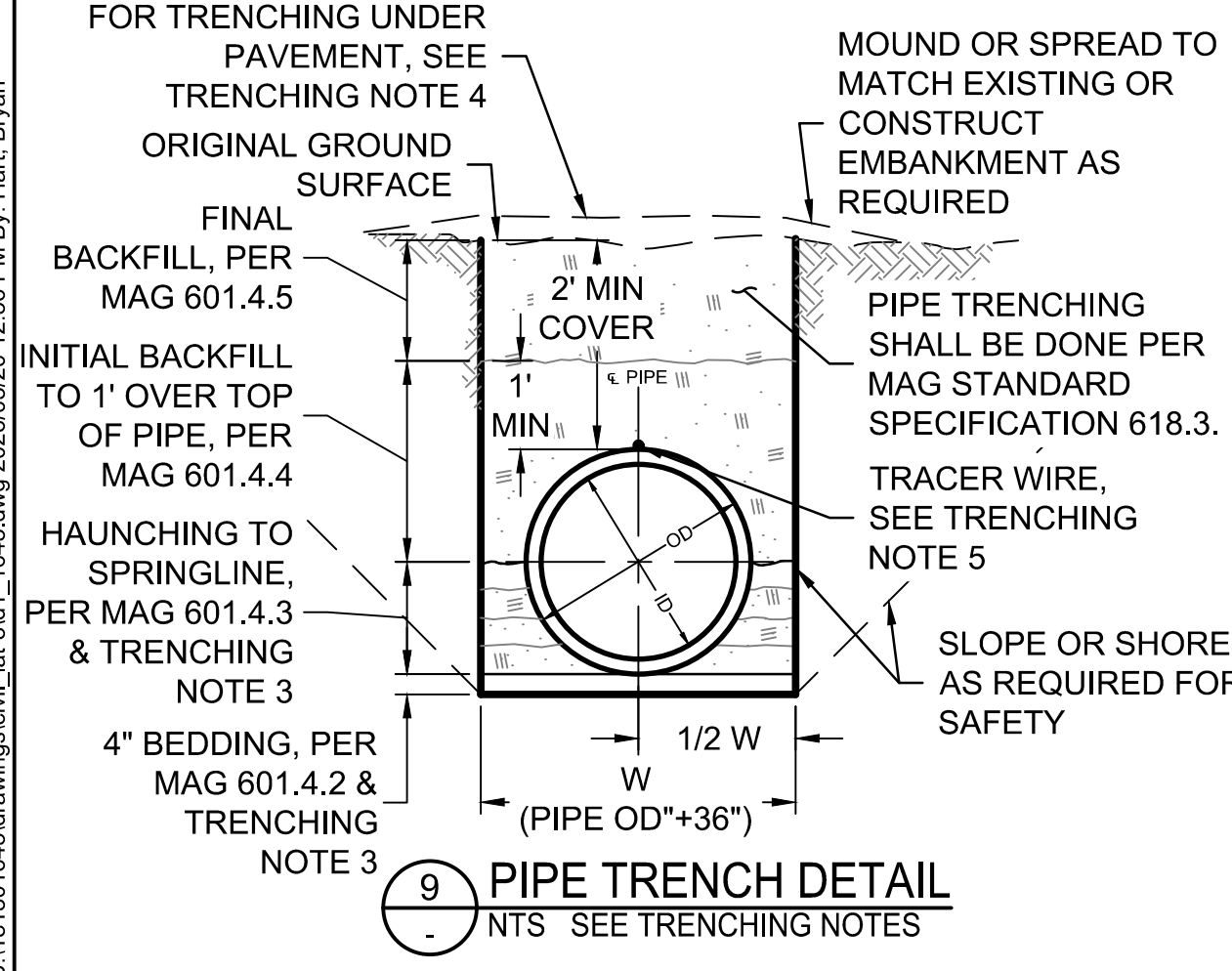
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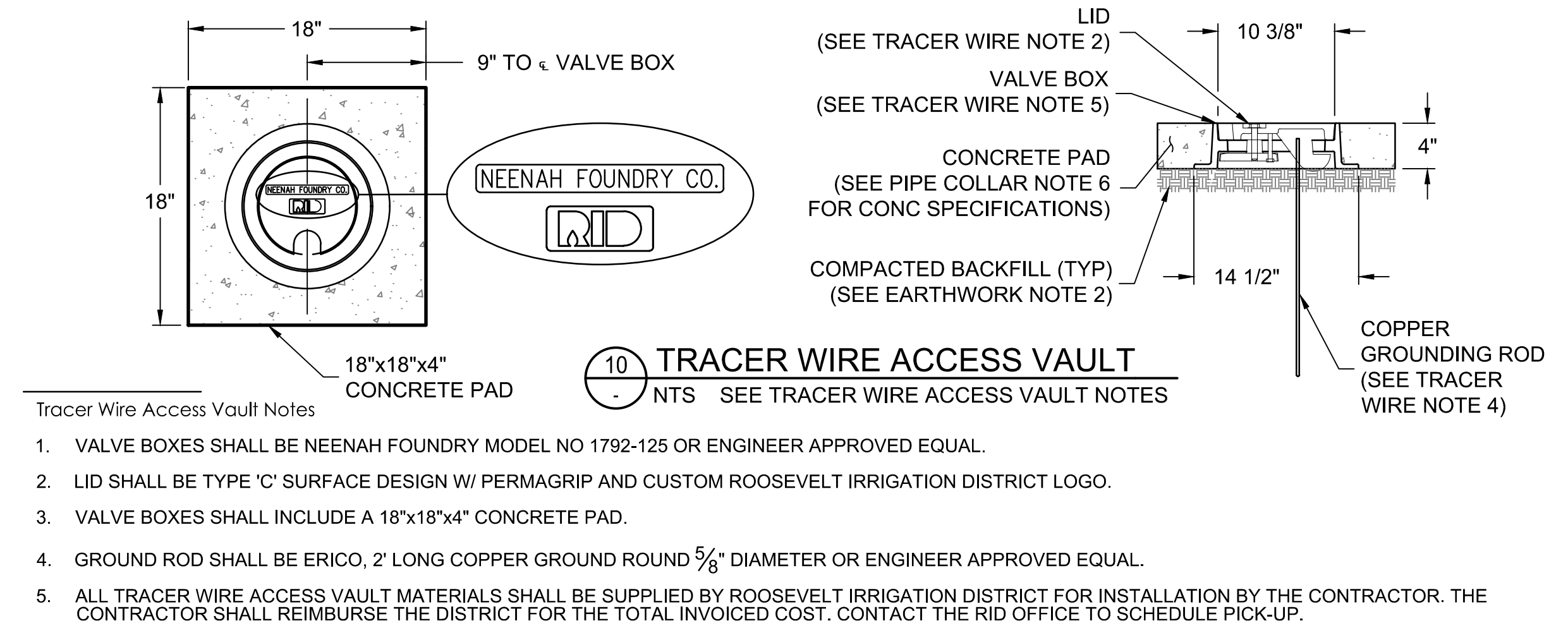
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**9** PIPE TRENCH DETAIL  
NTS SEE TRENCHING NOTES



**10** TRACER WIRE ACCESS VAULT  
NTS SEE TRACER WIRE ACCESS VAULT NOTES

- Tracer Wire Access Vault Notes**
- VALVE BOXES SHALL BE NEENAH FOUNDRY MODEL NO 1792-125 OR ENGINEER APPROVED EQUAL.
  - LID SHALL BE TYPE 'C' SURFACE DESIGN W/ PERMAGRIP AND CUSTOM ROOSEVELT IRRIGATION DISTRICT LOGO.
  - VALVE BOXES SHALL INCLUDE A 18"x18"x4" CONCRETE PAD.
  - GROUND ROD SHALL BE ERICO, 2' LONG COPPER GROUND ROUND 5/8" DIAMETER OR ENGINEER APPROVED EQUAL.
  - ALL TRACER WIRE ACCESS VAULT MATERIALS SHALL BE SUPPLIED BY ROOSEVELT IRRIGATION DISTRICT FOR INSTALLATION BY THE CONTRACTOR. THE CONTRACTOR SHALL REIMBURSE THE DISTRICT FOR THE TOTAL INVOICED COST. CONTACT THE RID OFFICE TO SCHEDULE PICK-UP.

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**Client/Project**  
ROOSEVELT IRRIGATION DISTRICT  
LATERAL 8EL & 8WW  
ADOT LOOP 303  
PACKAGE 2  
Goodyear, Arizona

**Title**  
TYPICAL SECTIONS & DETAILS I

Project No.	Scale	
181301643	AS SHOWN	
Drawing No.	Sheet	Revision
D-1	18 of 19	0

