

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, PE
 KELLYDIANA@STANLEYGROUP.COM



ADOT LOOP 303 - PACKAGE 1

LATERALS 6, 7 & 7WW

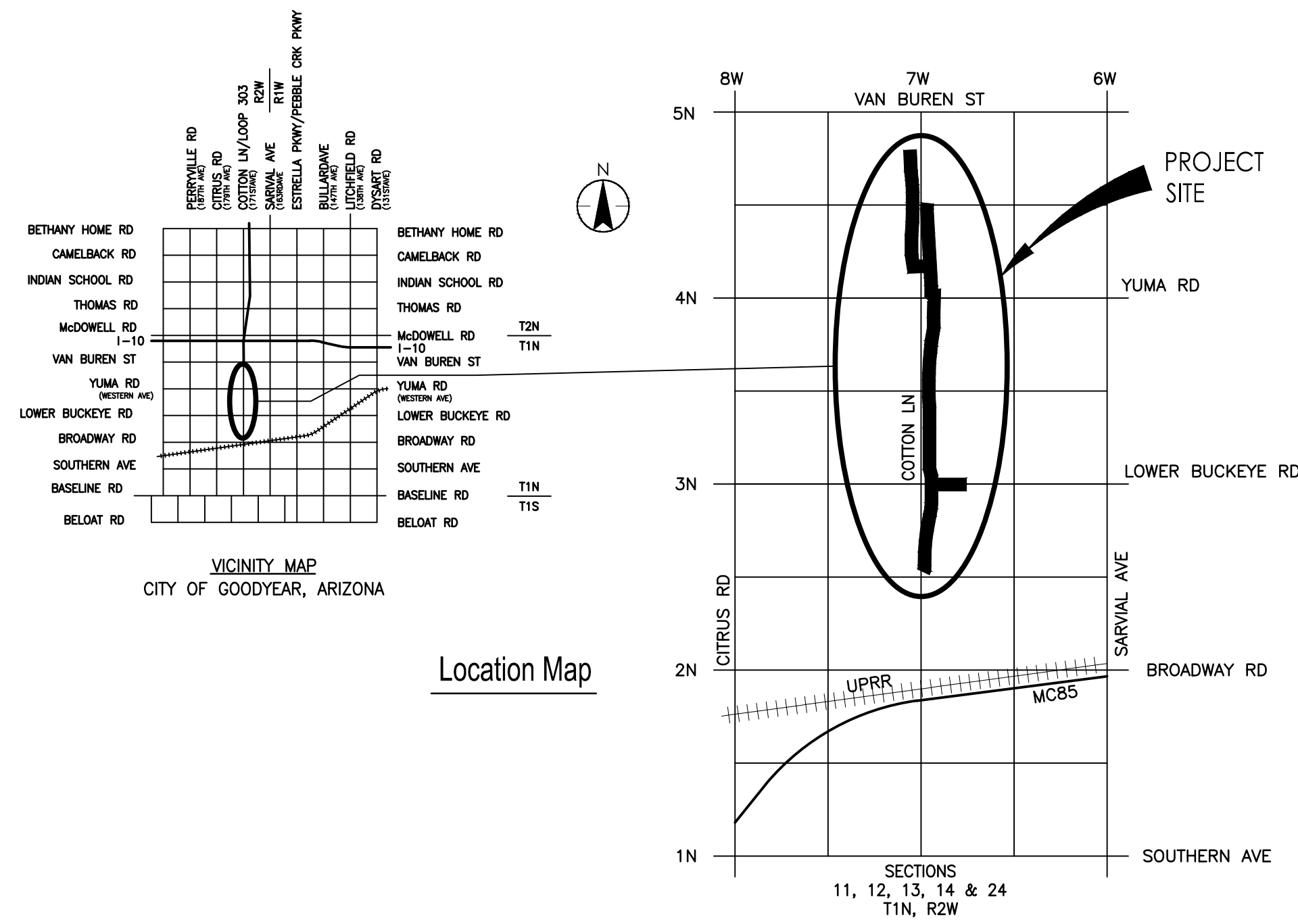
2 1/2 N - 7 W TO 4 7/8 N - 7 W

FACILITIES RELOCATION

SECTIONS 11, 12, 13, 14, & 24 T1N, R2W

MARCH 2026

PROJECT NUMBER: 181301643



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

3/20/2026
 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.

70263 CAMERON T. SMITH
 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.

Stantec
 Copyright Reserved
 The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
 The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: G_1643.DWG
 HARUBH GGB CTS 03.20.26
 Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal
 70263 CAMERON T. SMITH
 EXPIRES 12/31/2028

Client/Project
 ROOSEVELT IRRIGATION DISTRICT
 LATERALS 6, 7 & 7WW
 ADOT LOOP 303
 PACKAGE 1
 Goodyear, Arizona

Title
 COVER SHEET

Project No. 181301643
 Scale NONE
 Drawing No. G-1
 Sheet 1 of 61
 Revision 0

U:\181301643\Drawings\civil\181301643.dwg 2026/03/20 11:45 AM By: Harl. Bryan

181301643 ROOSEVELT IRRIGATION DISTRICT LATERALS 6, 7 & 7WW - FACILITIES RELOCATION - ADOT LOOP 303 - PACKAGE 1

RID SHEETS FOR ADOT SR303L - MC 85 TO VAN BUREN ST (COTTON LANE PORTION ONLY)

SHEET No	DWG No	SHEET TITLE
1	G-1	COVER SHEET
2	G-2	LIST OF DRAWINGS
3	G-3	SHEET KEY MAP
4	G-4	GEOMETRIC CONTROL
5	G-5	HORIZONTAL ALIGNMENT CONTROL (1 OF 2)
6	G-6	HORIZONTAL ALIGNMENT CONTROL (2 OF 2)
7	G-7	HORIZONTAL CONSTRUCTION CONTROL - ALIGNMENT LINE & CURVE TABLES
8	G-8	GENERAL NOTES & ABBREVIATIONS
9	R-1	LATERAL 7 - REMOVALS
10	R-2	LATERAL 7 - REMOVALS
11	R-3	LATERALS 7 & 7WW - REMOVALS
12	R-4	LATERALS 7 & 7WW - REMOVALS
13	R-5	LATERALS 7WW & 7WW REACH - REMOVALS
14	R-6	LATERALS 7WW & 7WW REACH - REMOVALS
15	R-7	LATERAL 7WW - REMOVALS
16	P-1	LATERAL 7 - PLAN & PROFILE
17	P-2	LATERAL 7 - PLAN & PROFILE
18	P-3	LATERAL 7 - PLAN & PROFILE
19	P-4	LATERAL 7 - PLAN & PROFILE
20	P-5	LATERAL 7 - PLAN & PROFILE
21	P-6	LATERAL 7 - PLAN & PROFILE
22	P-7	LATERAL 7 - PLAN & PROFILE
23	P-8	LATERAL 7 - PLAN & PROFILE
24	P-9	LATERAL 7 - PLAN & PROFILE
25	P-10	LATERAL 7 - PLAN & PROFILE
26	P-11	LATERAL 7 - PLAN & PROFILE
27	P-12	LATERAL 7 - PLAN & PROFILE
28	P-13	LATERALS 7 & 7WW REACH - PLAN & PROFILE
29	P-14	LATERAL 7WW REACH - PLAN & PROFILE
30	P-15	LATERAL 7WW REACH - PLAN & PROFILE
31	P-16	LATERAL 7WW REACH - PLAN & PROFILE
32	P-17	LATERAL 6 - PLAN & PROFILE
33	P-18	LATERAL 6 - PLAN & PROFILE
34	P-19	LATERAL 7WW - PLAN & PROFILE
35	P-20	LATERAL 7WW - PLAN & PROFILE
36	P-21	LATERAL 7WW - PLAN & PROFILE
37	P-22	LATERAL 7WW - PLAN & PROFILE
38	P-23	LATERAL 7WW - PLAN & PROFILE
39	P-24	LATERAL 7WW - PLAN & PROFILE
40	SP-1	LATERAL 7 - SITE PLAN 1
41	SP-2	LATERAL 7 - SITE PLAN 2
42	UT-1	LATERAL 7 - UTILITY CONFLICTS - LOWER BUCKEYE RD
43	UT-2	LATERAL 7 - UTILITY CONFLICTS - YUMA RD
44	UT-3	LATERAL 7WW REACH - UTILITY CONFLICTS - CANYON TRAILS BLVD
45	S-1	CONCRETE DETAILS
46	S-2	MANHOLE DETAILS
47	S-3	MANHOLE SCHEDULE
48	S-4	5-SIDED MANHOLE DETAILS
49	S-5	FIELD DRAIN HEADWALL DETAILS
50	S-6	HEADWALL / TRASHRACK DETAILS
51	S-7	DIVISION STRUCTURE
52	S-8	DELIVERY STRUCTURE - 7-10S
53	S-8.1	DELIVERY STRUCTURE - 7-10S - SLIDE COVER & GUIDE DETAILS
54	S-9	OUTLET HEADWALL DETAILS
55	S-10	STRUCTURAL HEADWALL DETAILS
56	D-1	TYPICAL SECTIONS & DETAILS I
57	D-2	TYPICAL SECTIONS & DETAILS II
58	D-3	MANHOLE ADJUSTMENT DETAILS
59	D-4	CONTROL GATE DETAILS
60	D-5	DELIVERY STRUCTURE - ACCESS STEP, MANTEL AND GUIDE DETAILS
61	D-6	DELIVERY STRUCTURE - MANTEL EXTENSION DETAILS

U:\181301643\Drawings\civil\181301643.dwg 2/26/2025 11:46 AM By: Hart, Bryan



Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.6100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: G2_1643.DWG HARUBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

Expires 12/31/2028

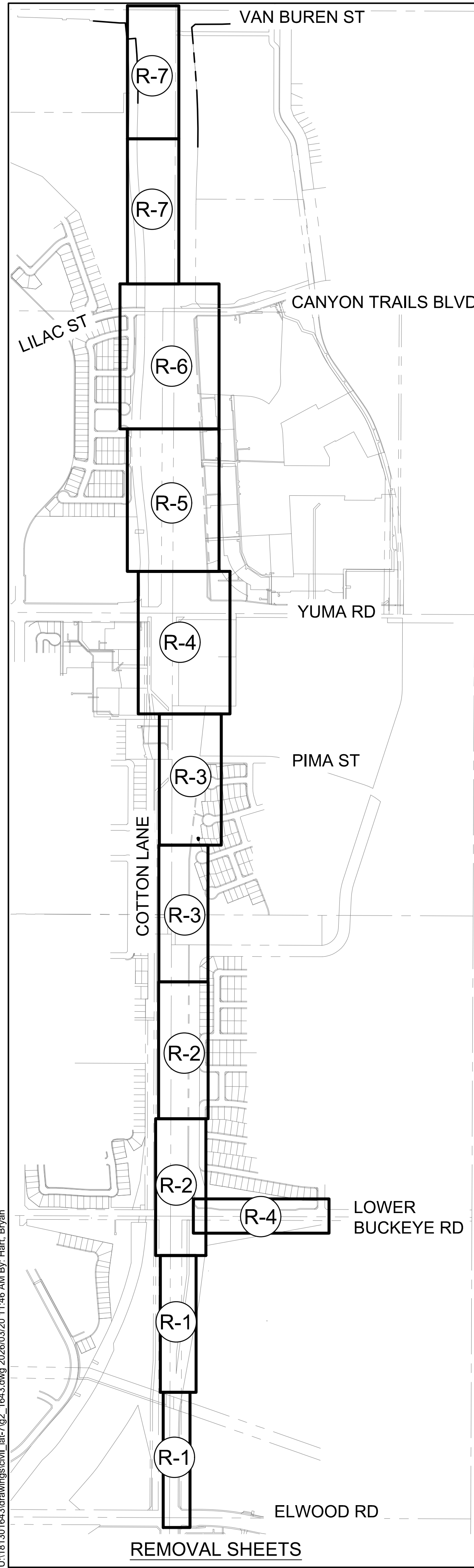
Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW

ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

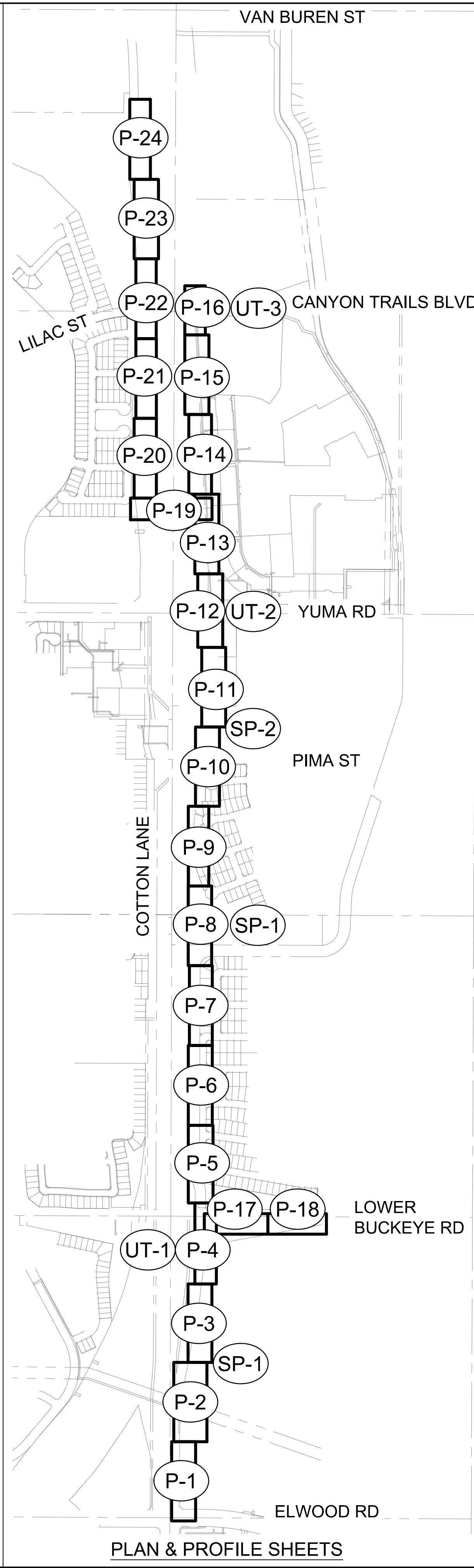
Title

LIST OF DRAWINGS

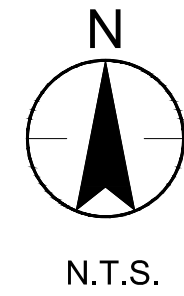
Project No.	Scale	
181301643	AS SHOWN	
Drawing No.	Sheet	Revision
G-2	2 of 61	0



REMOVAL SHEETS



PLAN & PROFILE SHEETS

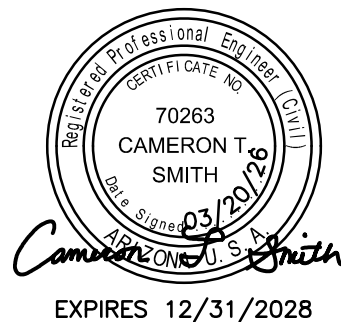


Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.6100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name:	G2_1643.DWG	HARUBH	GGB	CTS	03.20.26
Dwn.	Chkd.	Dsgn.	MM.DD.YY		

Permit-Seal

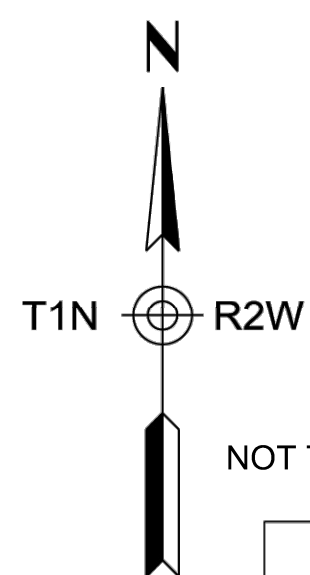


Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

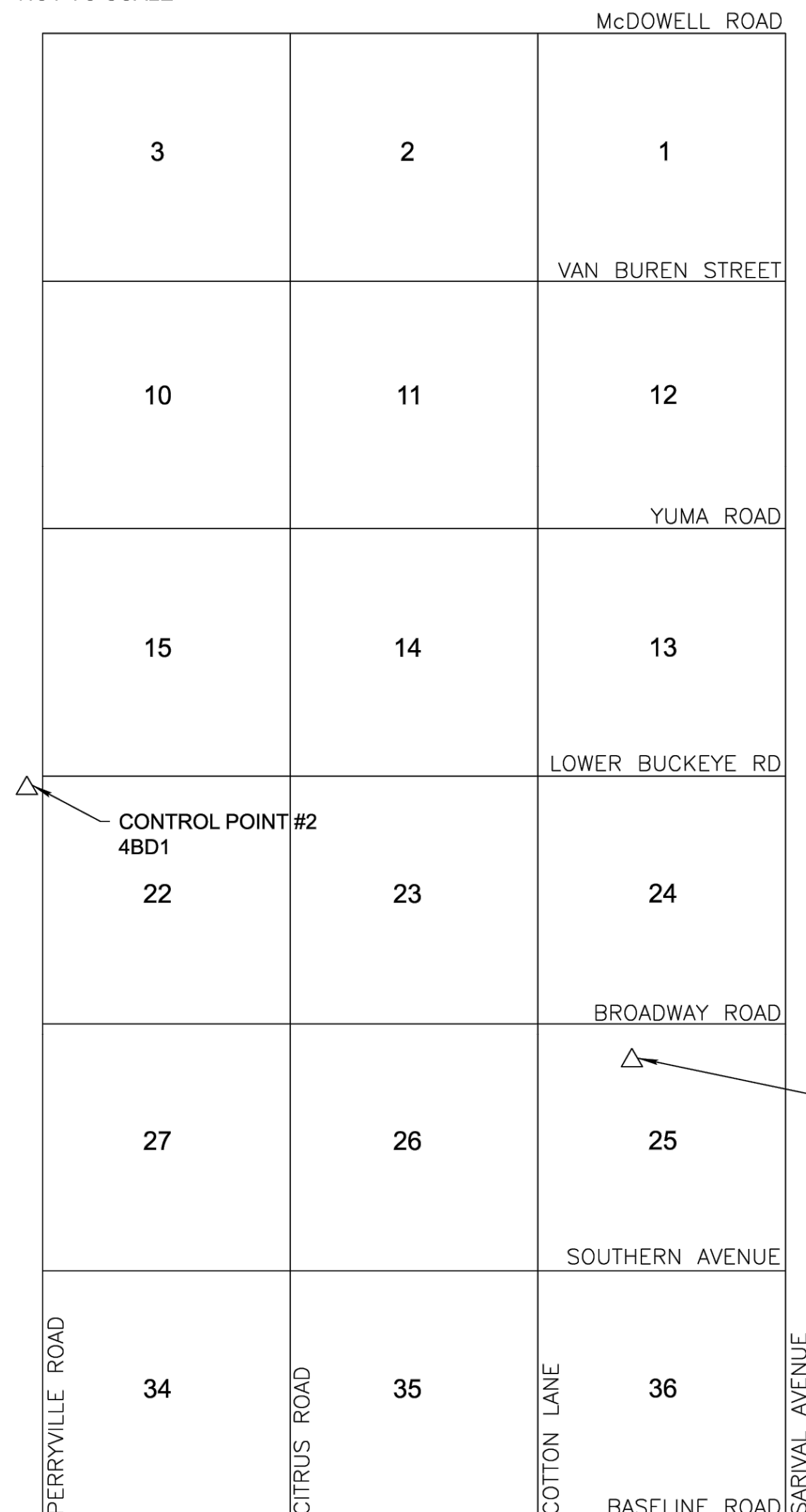
Title
SHEET KEY MAP

Project No.	Scale	
181301643	NONE	
Drawing No.	Sheet	Revision
G-3	3 of 61	0

U:\181301643\Drawings\civil\lat-7\2_1643.dwg 2/26/2026 11:46 AM By: Hart, Bryan



NOT TO SCALE



SECONDARY BENCHMARKS

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
MONUMENT TYPE METAL ROD
NAD 83(92) LAT 33° 27' 41.02666"N
NAD 83(92) LONG 112° 24' 33.04914"W
E. HT. 923.33 FT.
GROUND NORTHING 895903.5712
GROUND EASTING 549885.9692
NAVD 88 O. HT. 1023.00 FT.

4CA4
METAL ROD
33° 27' 33.82380"N
112° 18' 22.47609"W
921.39 FT.
895042.1928
581281.1862
1021.00 FT.

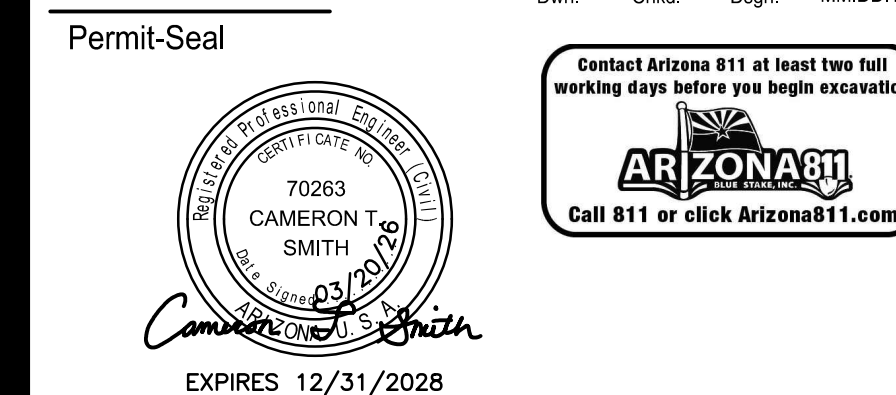
SEE DWG'S G-5 THROUGH G-7 FOR
LATERAL 7, LATERAL 7WW & LATERAL 6
HORIZONTAL CONSTRUCTION CONTROL
ALIGNMENT, LINE & CURVE TABLES



Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.8100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

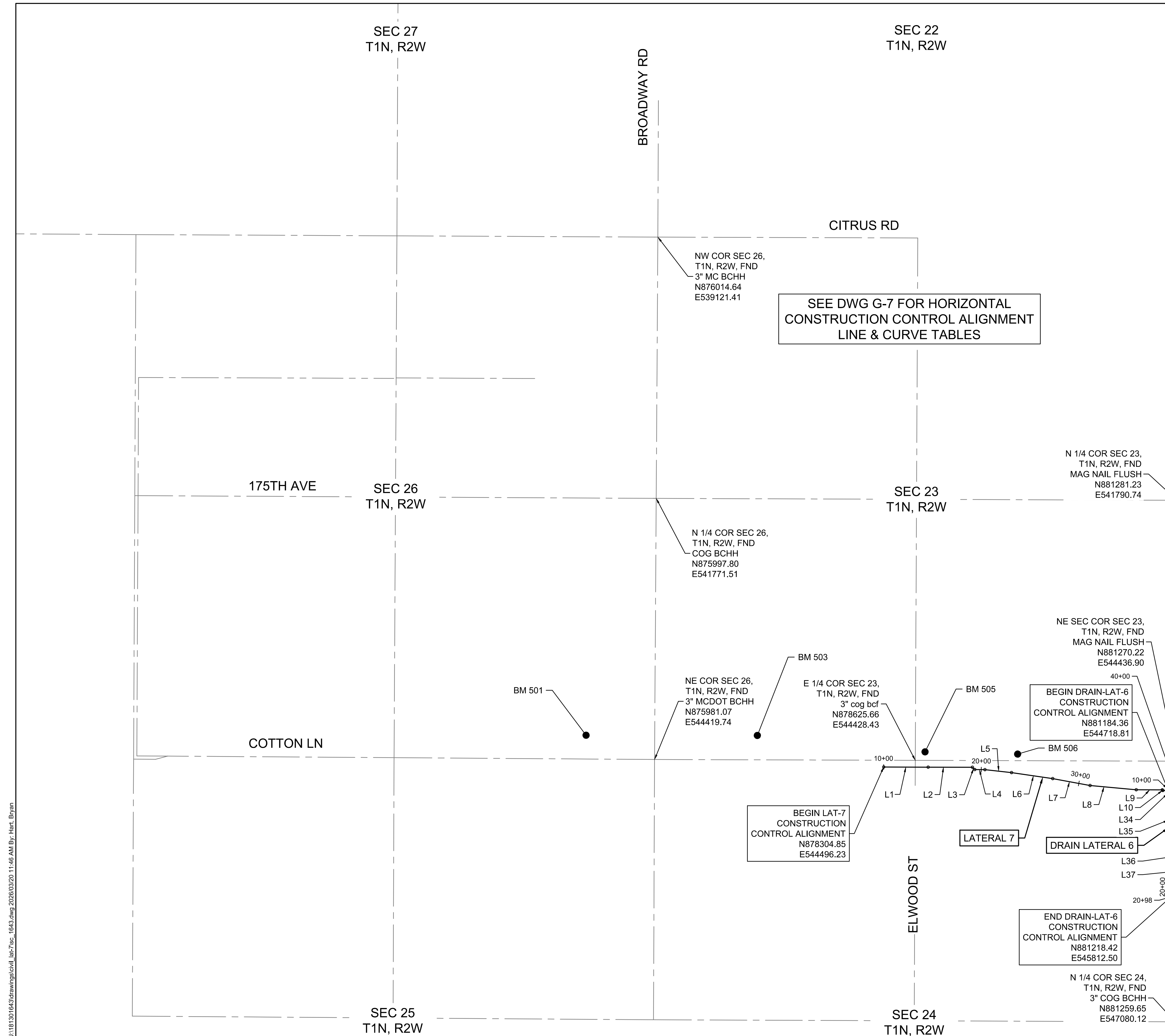
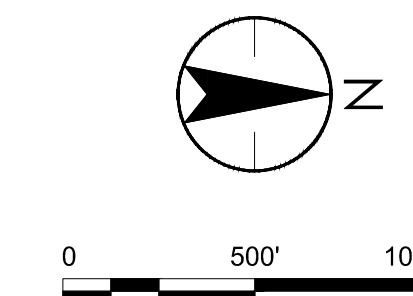
File Name: SC_1643.DWG HARUBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY



Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
GEOMETRIC CONTROL

Project No. 181301643 Scale AS SHOWN
Drawing No. G-4 Sheet 4 of 61 Revision 0



LOWER BUCKEYE RD
MATCH LINE SEE DWG G-6

Stantec
 Copyright Reserved
 The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
 The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Stantec Consulting Services Inc.
 3133 West Frye Road, Suite 300
 Chandler, AZ 85226 USA
 Tel: 480.687.6100
 www.stantec.com

File Name: SC_1643.DWG
 HARUBH GGB CTS 03.20.26
 Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

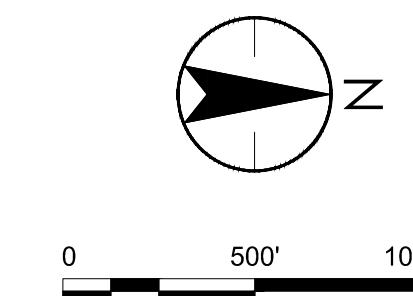
Expires 12/31/2028

Client/Project
 ROOSEVELT IRRIGATION DISTRICT
 LATERALS 6, 7 & 7WW
 ADOT LOOP 303
 PACKAGE 1
 Goodyear, Arizona

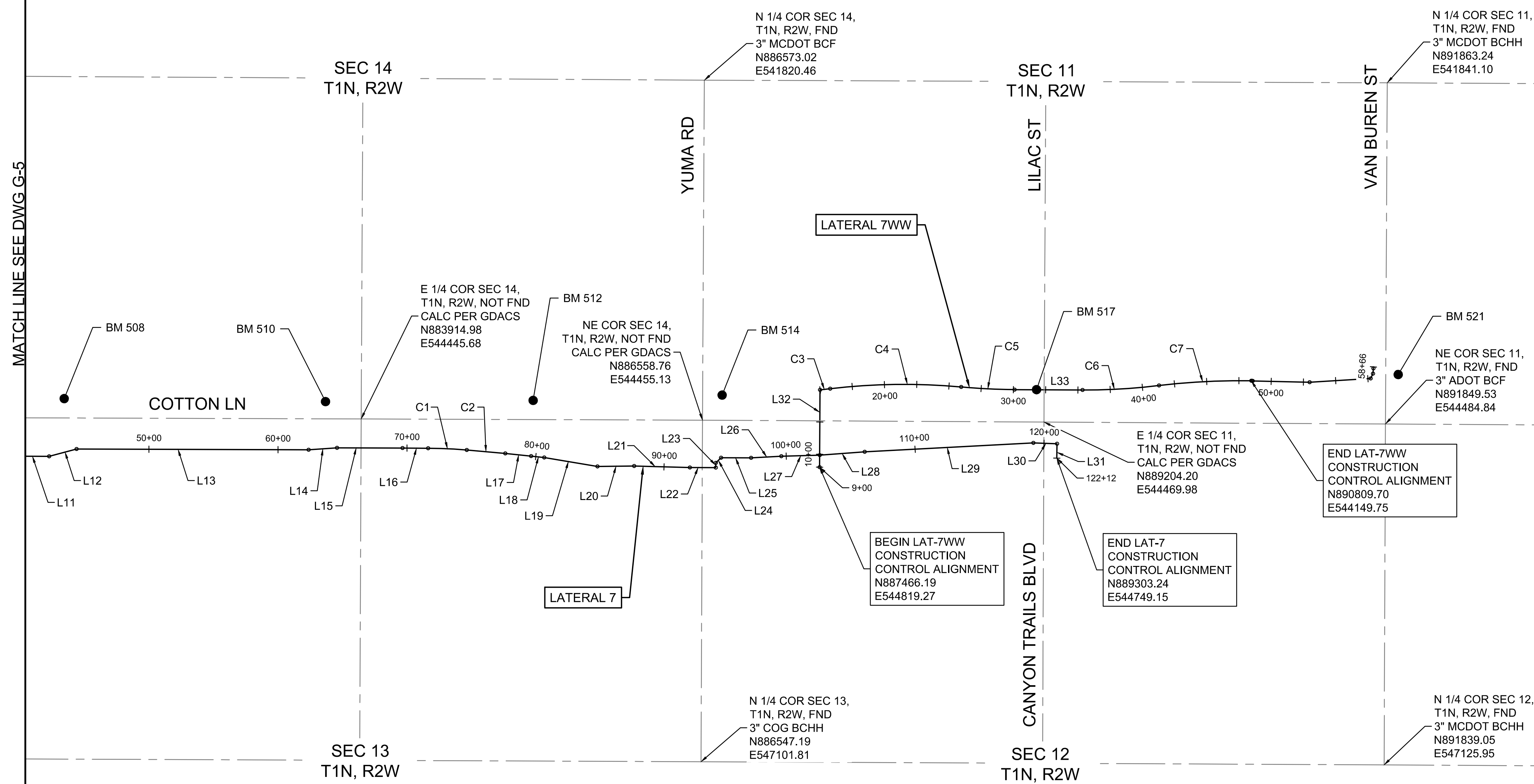
Title
 HORIZONTAL ALIGNMENT CONTROL
 (1 OF 2)

Project No. 181301643	Scale 1" = 500'
Drawing No. G-5	Sheet 5 of 61
	Revision 0

L:\181301643\Drawings\civil_lat-7\sc_1643.dwg, 2026/03/20 11:46 AM By: Hart, Bryan



SEE DWG G-7 FOR HORIZONTAL
CONSTRUCTION CONTROL ALIGNMENT
LINE & CURVE TABLES



MATCH LINE SEE DWG G-5



Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.6100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: SC_1643.DWG HARUBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal



Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
HORIZONTAL ALIGNMENT CONTROL
(2 OF 2)

Project No. 181301643	Scale 1" = 500'
Drawing No. G-6	Sheet 6 of 61
	Revision 0

HORIZONTAL CONSTRUCTION CONTROL ALIGNMENT LAT-7											
LINE/CURVE	BEARING	LENGTH	START NORTHING	START EASTING	END NORTHING	END EASTING	DELTA	ARC LENGTH	RADIUS	CHORD DIRECTION	CHORD LENGTH
L1	N00°09'32"E	450.84	878304.85	544496.23	878755.68	544497.48					
L2	N00°11'18"E	449.17	878755.68	544497.48	879204.85	544498.95					
L3	N45°08'39"E	33.02	879204.85	544498.95	879228.14	544522.36					
L4	N00°11'01"E	103.43	879228.14	544522.36	879331.57	544522.69					
L5	N06°17'43"E	272.12	879331.57	544522.69	879602.05	544552.53					
L6	N08°21'26"E	421.17	879602.05	544552.53	880018.75	544613.75					
L7	N10°23'58"E	385.48	880018.75	544613.75	880397.90	544683.33					
L8	N05°18'54"E	470.85	880397.90	544683.33	880866.72	544726.94					
L9	N00°13'45"E	263.84	880866.72	544726.94	881130.56	544728.00					
L10	N45°26'06"E	8.60	881130.56	544728.00	881136.60	544734.13					
L11	N00°11'25"E	360.44	881136.60	544734.13	881497.04	544735.32					
L12	N14°55'19"W	220.53	881497.04	544735.32	881710.13	544678.54					
L13	N00°11'25"E	1797.58	881710.13	544678.54	883507.70	544684.50					
L14	N03°53'35"W	220.59	883507.70	544684.50	883727.78	544669.53					
L15	N00°12'55"E	506.89	883727.78	544669.53	884234.67	544671.43					
L16	N00°26'16"E	198.62	884234.67	544671.43	884433.29	544672.95					
C1			884433.29	544672.95	884732.48	544685.98	004°06'51"	299.55	4171.70	N02°29'41"E	299.48
C2			884732.48	544685.98	885030.71	544713.40	001°23'58"	299.49	12261.89	N05°15'06"E	299.48
L17	N05°43'37"E	201.43	885030.71	544713.40	885231.14	544733.50					
L18	N06°05'26"E	101.57	885231.14	544733.50	885332.13	544744.27					
L19	N09°33'07"E	418.92	885332.13	544744.27	885745.25	544813.79					
L20	N00°35'18"W	284.07	885745.25	544813.79	886029.30	544810.87					
L21	N01°29'18"E	431.69	886029.30	544810.87	886460.85	544822.08					
L22	N00°19'28"E	200.81	886460.85	544822.08	886661.65	544823.22					
L23	N89°44'58"W	36.62	886661.65	544823.22	886661.81	544786.60					
L24	N44°42'50"W	57.56	886661.81	544786.60	886702.72	544746.10					
L25	N00°19'18"E	232.10	886702.72	544746.10	886934.82	544747.41					
L26	N03°01'43"W	235.09	886934.82	544747.41	887169.58	544734.99					
L27	N01°37'59"W	297.15	887169.58	544734.99	887466.61	544726.52					
L28	N04°12'56"W	349.27	887466.61	544726.52	887814.93	544700.84					
L29	N03°01'43"W	1308.74	887814.93	544700.84	889121.84	544631.70					
L30	N01°53'56"E	183.59	889121.84	544631.70	889305.34	544637.78					
L31	S88°55'15"E	111.39	889305.34	544637.78	889303.24	544749.15					

HORIZONTAL CONSTRUCTION CONTROL ALIGNMENT DRAIN-LAT-6											
LINE/CURVE	BEARING	LENGTH	START NORTHING	START EASTING	END NORTHING	END EASTING	DELTA	ARC LENGTH	RADIUS	CHORD DIRECTION	CHORD LENGTH
L34	N87°00'00"E	106.21	881184.36	544718.81	881189.92	544824.88					
L35	N88°47'49"E	553.78	881189.92	544824.88	881201.55	545378.53					
L36	N70°34'51"E	69.19	881201.55	545378.53	881224.55	545443.78					
L37	S89°02'53"E	368.77	881224.55	545443.78	881218.42	545812.50					

HORIZONTAL CONSTRUCTION CONTROL ALIGNMENT LAT-7WWW											
LINE/CURVE	BEARING	LENGTH	START NORTHING	START EASTING	END NORTHING	END EASTING	DELTA	ARC LENGTH	RADIUS	CHORD DIRECTION	CHORD LENGTH
L32	N89°44'23"W	598.44	887466.19	544819.27	887468.91	544220.84					
C3			887468.91	544220.84	887547.39	544211.61	000°14'02"	79.02	19362.52	N06°42'35"W	79.02
C4			887547.39	544211.61	888562.28	544198.14	012°16'18"	1016.92	4747.95	N00°45'37"W	1014.98
C5			888562.28	544198.14	888976.15	544218.62	005°05'06"	414.51	4670.53	N02°49'59"E	414.37
L33	N00°17'26"E	526.47	888976.15	544218.62	889502.61	544221.29					
C6			889502.61	544221.29	890095.22	544186.56	007°17'15"	594.03	4670.37	N03°21'13"W	593.63
C7			890095.22	544186.56	890809.70	544149.75	007°33'17"	715.95	5429.81	N02°56'58"W	715.43



Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.
File Name: SC_1643.DWG HARUBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

Expires 12/31/2028

Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WWW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
HORIZONTAL
CONSTRUCTION CONTROL
ALIGNMENT LINE & CURVE TABLES

Project No. 181301643 Scale NONE
Drawing No. G-7 Sheet 7 of 61 Revision 0

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

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. STATIONS SHOWN ARE APPROXIMATE AND MAY BE VARIED AS DIRECTED BY THE OWNER'S ENGINEER.
9. 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.
10. 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".
11. 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.
12. THE CONTRACTOR SHALL CONTACT THE OWNER'S CONSTRUCTION OBSERVER AS NOTED ON DRAWING G-1 FOR IRRIGATION SYSTEM DRY-UP SCHEDULING.
13. 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.
14. 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.
15. ALL EXISTING IRRIGATION FACILITIES DISTURBED BY NEW CONSTRUCTION SHALL BE RECONSTRUCTED TO CURRENT RID STANDARDS.
16. 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.
17. UPON COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT OWNERS'S CONSTRUCTION OBSERVER TO OBTAIN A LETTER OF ACCEPTANCE.
18. 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.
19. 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):**

1. 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.
2. THE EXISTING UTILITIES IDENTIFIED ON THE PLANS MAY NOT REPRESENT ALL EXISTING AND/OR CONFLICTING UTILITIES WITHIN THE PROJECT LIMITS.
3. THE OWNER DOES NOT GUARANTEE THE LOCATION OR ELEVATION OF UTILITIES AND WILL NOT BE RESPONSIBLE FOR THEIR RELOCATION.
4. 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.
5. 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).
6. 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.
7. 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.
8. 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):**

1. THE CONTRACTOR SHALL PROVIDE SMOOTH AND EVENLY GRADED FINISHED GROUND SURFACES ABOUT ALL RID FACILITIES WITHIN THE PROJECT AREA.
2. 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.
3. 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.
4. FINISHED SURFACES SHALL BE GRADED TO DIRECT DRAINAGE AWAY FROM RID FACILITIES.
5. O&M ROADS SHALL BE CONSTRUCTED WITH A MINIMUM ELEVATION 6" ABOVE ADJACENT FIELDS AND A 2% CROSS SLOPE UNLESS OTHERWISE NOTED.
6. 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):**

- A. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION.
- B. 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.
- C. 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.
- D. THE CITY DOES NOT WARRANT ANY QUANTITIES SHOWN ON THESE PLANS.
- E. 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.
- F. AN APPROVED SET OF PLANS SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES.
- G. 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.
- H. 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.
- I. RIGHT-OF-WAY IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL "AS-BUILT" PLANS HAVE BEEN SUBMITTED AND APPROVED BY THE CITY. (SEE AS-BUILT REQUIREMENTS)
- J. THE DEVELOPER IS RESPONSIBLE FOR THE REMOVAL OR RELOCATION OF ALL OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY PRIOR TO STARTING NEW CONSTRUCTION.
- K. 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.
- L. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING OR DEDICATING ALL REQUIRED RIGHTS-OF-WAY AND EASEMENTS TO THE CITY PRIOR TO ISSUANCE OF PERMITS.
- M. 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.
- N. 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.
- O. 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.
- P. 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).
- Q. 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.
- R. 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.)
- S. 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.
- T. ALL IMPROVEMENTS DAMAGED OR REPLACED DURING CONSTRUCTION SHALL BE REPLACED WITH IMPROVEMENTS THAT MEET THE CURRENT CITY STANDARDS.

**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 BUCKEYE
CON	CITY OF GOODYEAR
COP	CONDUIT
COR	CITY OF PHOENIX
CST	CORNER
DET	CONSTRUCTION
Ø	DETAILS
DWLS	DIAMETER
D/S	DOWELS
D/W	DOWNSTREAM
ELL	DRIVEWAY
E/P	ELLIPITICAL
ESMT	EDGE OF PAVEMENT
EW	EASEMENT
EXIST	EACH WAY
EXP	EXISTING
FG	EXPANSION
FL	FINISHED GRADE
FLG	FLOW LINE
FUT	FLANGE
GR	FUTURE
GB	GRADE
HYD	GRADE BREAK
HGL	HYDRAULIC
IC	HYDRAULIC GRADE LINE
IRR	INTERCONNECT
ITS	IRRIGATION
LG	INTELLIGENT TRANSPORTATION SYSTEMS
LPSCo	LONG
MAX	LITCHFIELD PARK SERVICE COMPANY
MC	MAXIMUM
MCDOT	MARICOPA COUNTY
MEAND	MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION
MFG	MEANDERING
MI	MANUFACTURER
MJ	MINER'S INCHES
MW	MECHANICAL JOINT
n	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
SF	SLIP FORM
SP	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



Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name:	G8_1643.DWG	HARUBH	GGG	CTS	03.20.26
Dwn:		Chkd:		Dsgn:	MM.DD.YY

Permit-Seal

Expires 12/31/2028



Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**

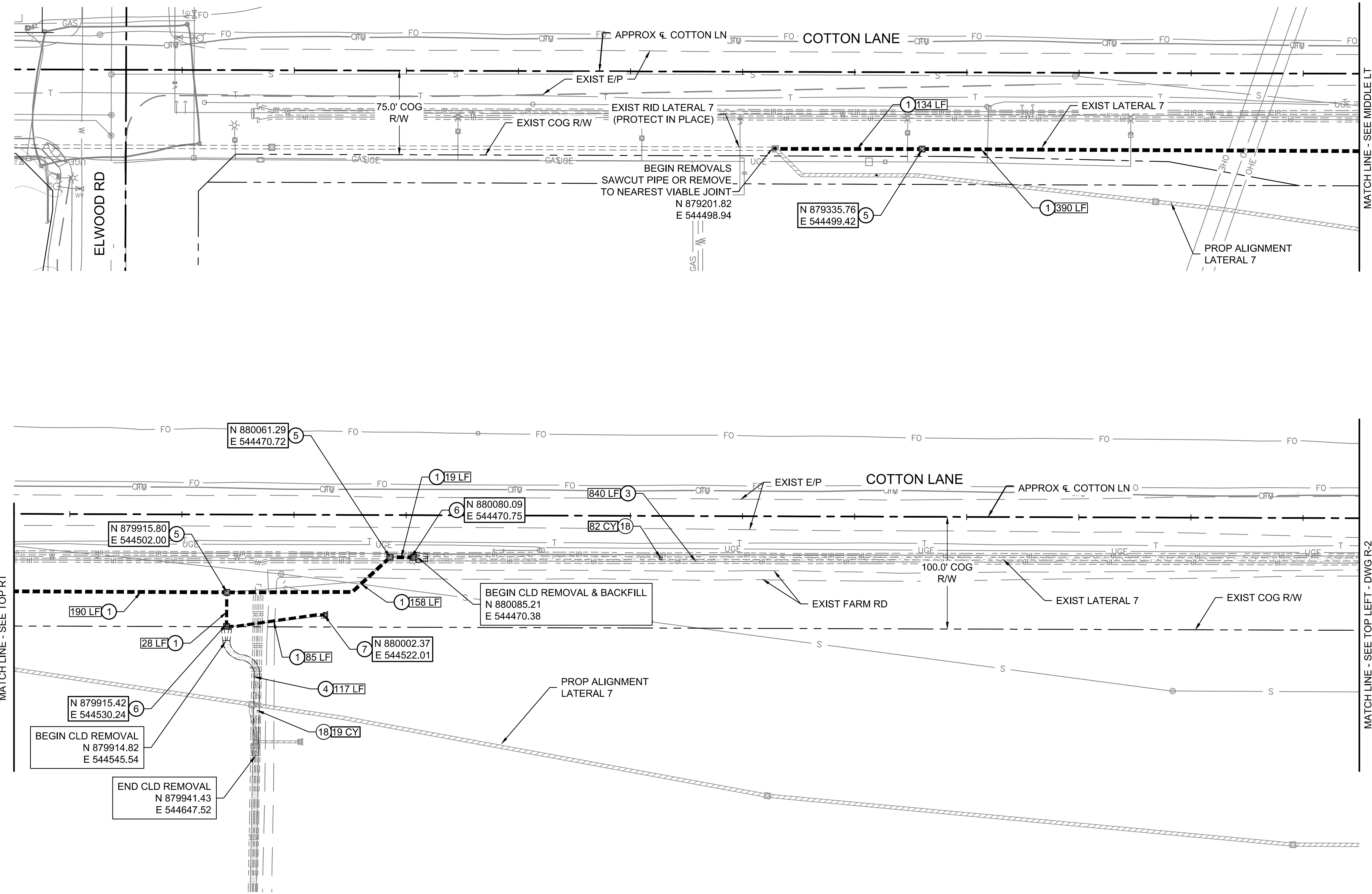
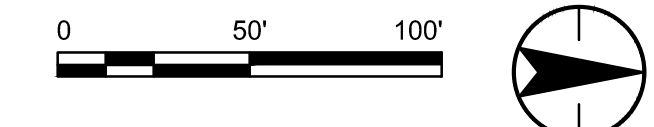
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title

GENERAL NOTES & ABBREVIATIONS

Project No.	Scale	
181301643	AS SHOWN	
Drawing No.	Sheet	Revision
G-8	8 of 61	0

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.	1004	LF
3	REMOVE & DISPOSE OF EXISTING RID LATERAL CONCRETE LINING. BACKFILL & COMPACT PER MAG STD SPECIFICATIONS SECTION 211.	840	LF
4	REMOVE & DISPOSE OF EXISTING PRIVATE DITCH CONCRETE LINING. BACKFILL & COMPACT PER MAG STD SPECIFICATIONS SECTION 211.	117	LF
5	REMOVE & DISPOSE OF EXISTING IRRIGATION MANHOLE. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE MANHOLE COVER.	3	EA
6	REMOVE & DISPOSE OF EXISTING IRRIGATION HEADWALL. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE HEADWALL TRASHRACK.	2	EA
7	REMOVE & DISPOSE OF EXISTING IRRIGATION FIELD DRAIN HEADWALL. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE HEADWALL TRASHRACK.	1	EA
18	BACKFILL & COMPACT EXISTING CANAL PRISM PER MAG STD SPECIFICATION SECTION 211.	101	CY

Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

File Name: 181301643-REMOVALS_LAT-7.DWG HARUBH GGB CTS 03.20.26
Dwn Chkd Dsgn MM.DD.YY

Permit-Seal

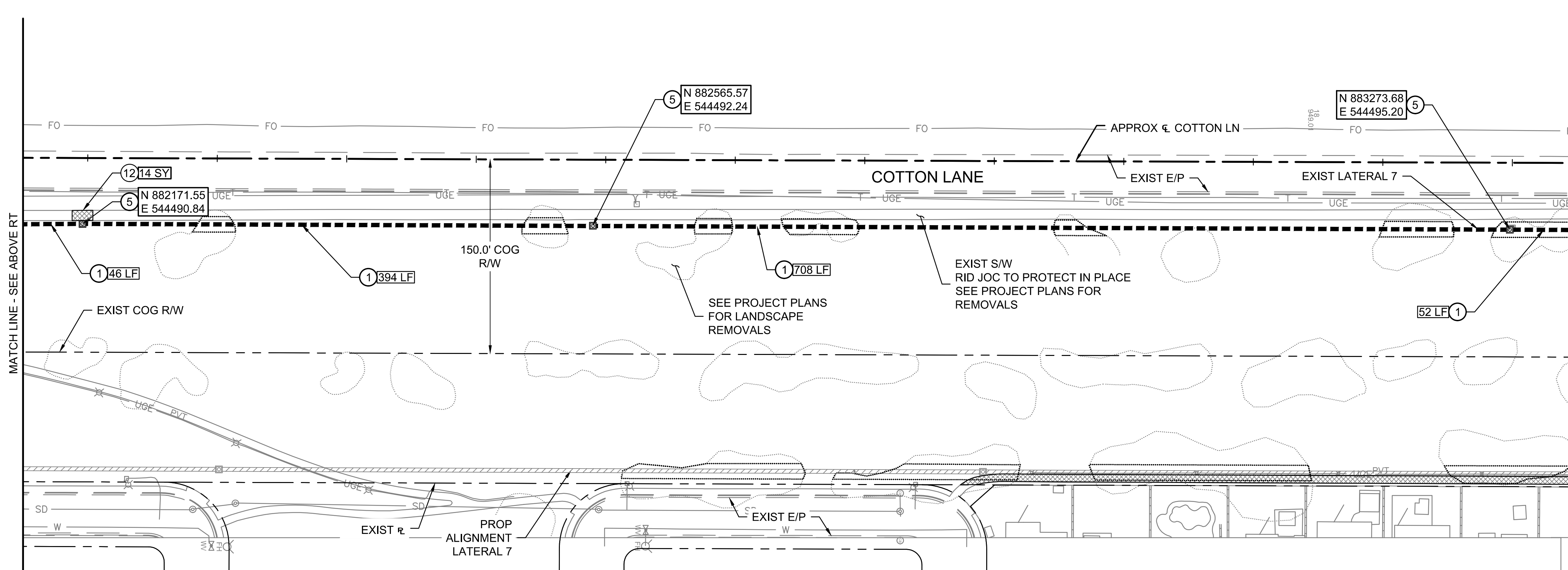
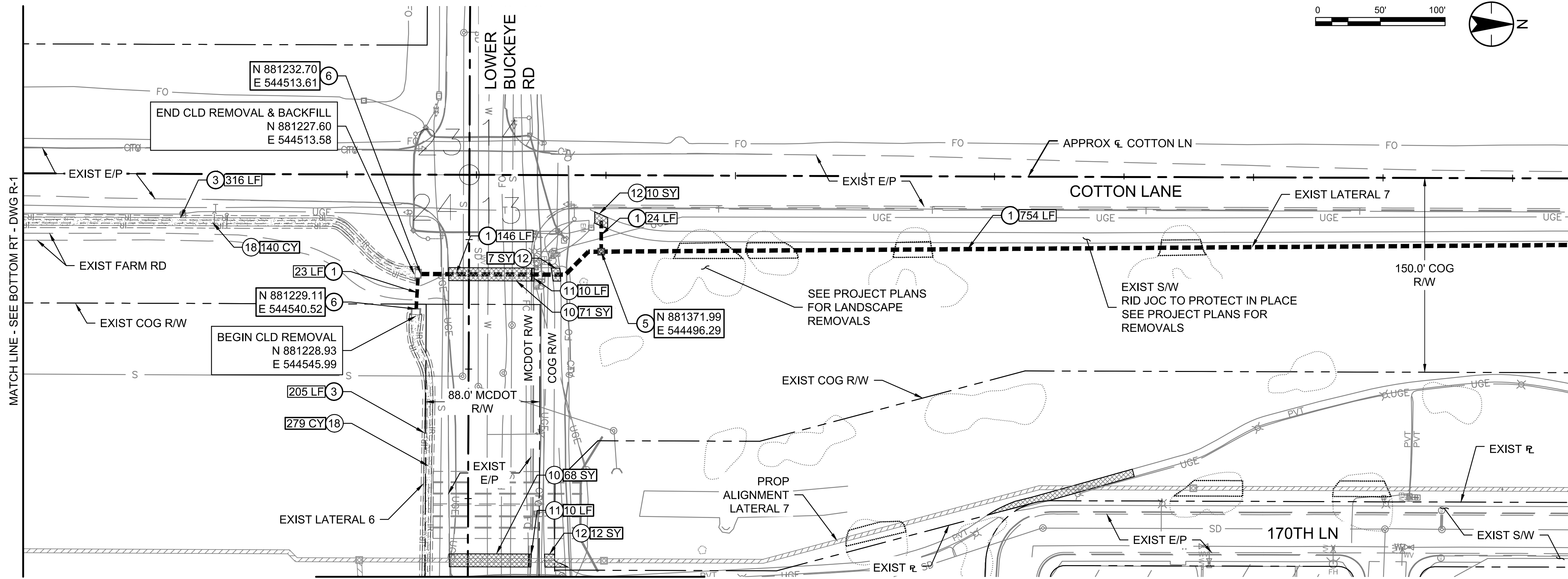
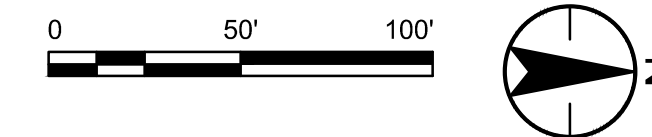
Expires 12/31/2028

Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
LATERAL 7
REMOVALS

Project No.	Scale	
181301643	1" = 50'	
Drawing No.	Sheet	Revision
R-1	9 of 61	0

U:\181301643\Drawings\civil_lat-7\181301643-REMOVALS_LAT-7.dwg 2026/03/20 11:48 AM By: Hart, Bryan



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.	2147	LF
3	REMOVE & DISPOSE OF EXISTING RID LATERAL CONCRETE LINING. BACKFILL & COMPACT PER MAG STD SPECIFICATIONS SECTION 211.	521	LF
5	REMOVE & DISPOSE OF EXISTING IRRIGATION MANHOLE. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE MANHOLE COVER.	4	EA
6	REMOVE & DISPOSE OF EXISTING IRRIGATION HEADWALL. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE HEADWALL TRASHRACK.	2	EA
10	PAVEMENT CUT, TRENCH BACKFILL & SURFACE REPLACEMENT PER MAG STD DET 200-1 & 200-2 ('T-TOP' TRENCH REPAIR) WITH 1/2 SACK CLSM BACKFILL. MATCH EX PAVEMENT.	139	SY
11	SAWCUT & REMOVE EXISTING CURB & GUTTER AS REQUIRED FOR RELOCATION OF RID FACILITIES. REPLACE CURB & GUTTER PER MAG STD DETAIL 220, 6" VERTICAL CURB & GUTTER (TYPE A).	20	LF
12	SAWCUT & REMOVE EXISTING SIDEWALK AS REQUIRED FOR RELOCATION OF RID FACILITIES. REPLACE SIDEWALK PER MAG STD DETAIL 230.	43	SY
18	BACKFILL & COMPACT EXISTING CANAL PRISM PER MAG STD SPECIFICATION SECTION 211.	419	CY

Stantec
Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.8100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643-REMOVALS_LAT-7.DWG HAR/UBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

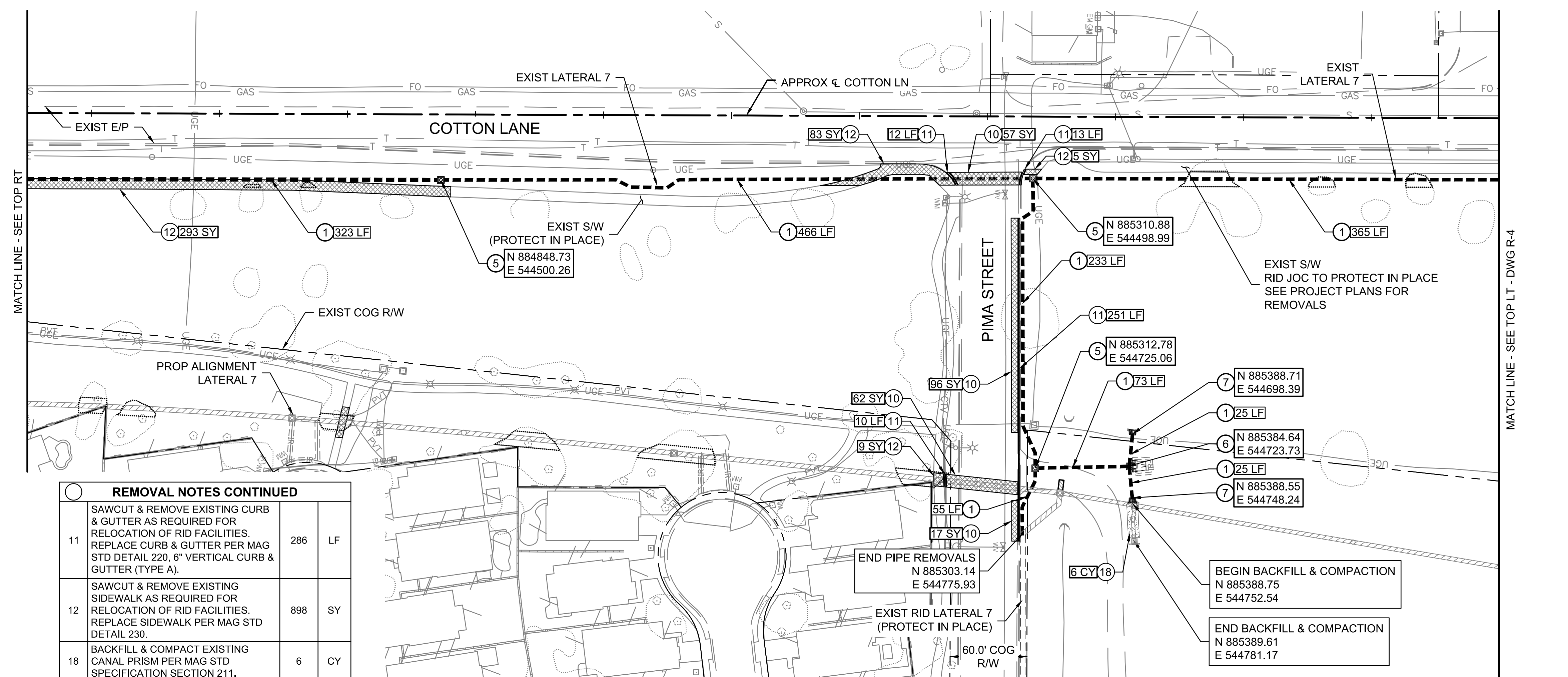
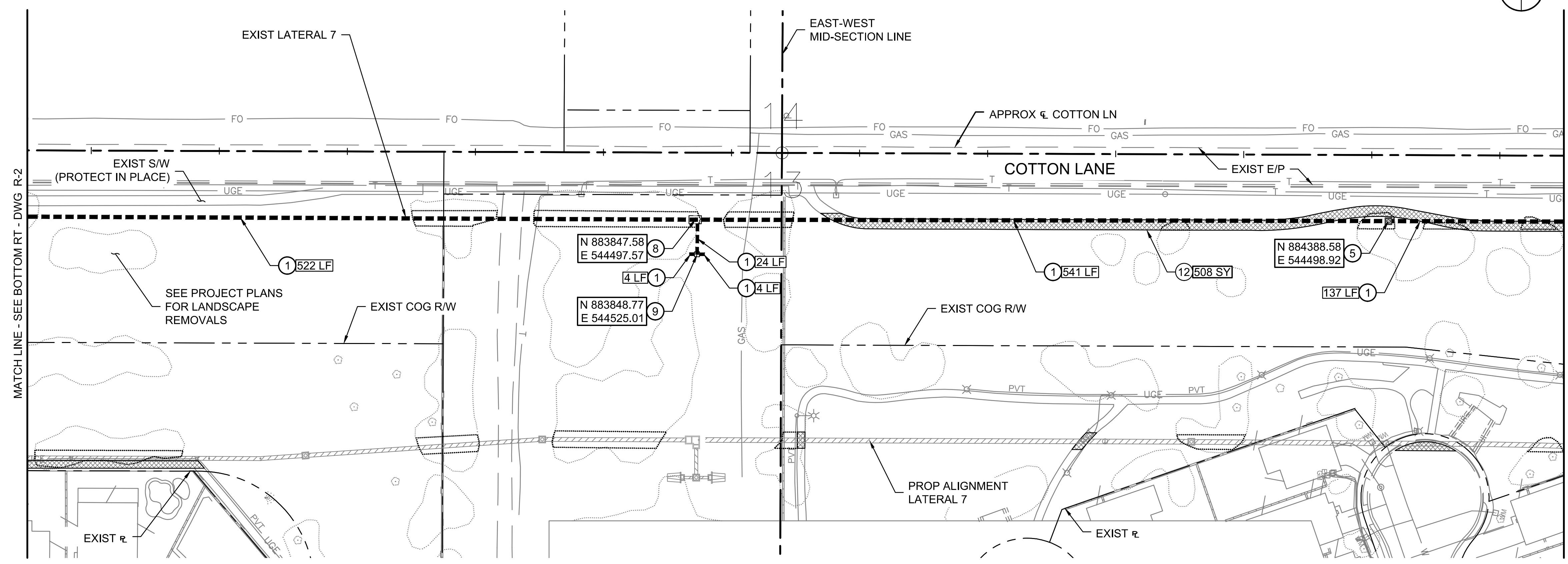
 Expires 12/31/2028

Client/Project
 ROOSEVELT IRRIGATION DISTRICT
 LATERALS 6, 7 & 7WW
 ADOT LOOP 303
 PACKAGE 1
 Goodyear, Arizona

Title
**LATERAL 7
 REMOVALS**

Project No.	Scale
181301643	1" = 50'
Drawing No.	Sheet
R-2	10 of 61
	Revision
	0

U:\181301643\Drawings\civil_lat-7\181301643-REMOVALS_LAT-7.dwg 2026/03/20 11:48 AM By: Hant, Bryan



REMOVAL NOTES CONTINUED		
11	SAWCUT & REMOVE EXISTING CURB & GUTTER AS REQUIRED FOR RELOCATION OF RID FACILITIES. REPLACE CURB & GUTTER PER MAG STD DETAIL 220, 6" VERTICAL CURB & GUTTER (TYPE A).	286 LF
12	SAWCUT & REMOVE EXISTING SIDEWALK AS REQUIRED FOR RELOCATION OF RID FACILITIES. REPLACE SIDEWALK PER MAG STD DETAIL 230.	898 SY
18	BACKFILL & COMPACT EXISTING CANAL PRISM PER MAG STD SPECIFICATION SECTION 211.	6 CY

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.	2797	LF
5	REMOVE & DISPOSE OF EXISTING IRRIGATION MANHOLE. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE MANHOLE COVER.	4	EA
6	REMOVE & DISPOSE OF EXISTING IRRIGATION HEADWALL. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE HEADWALL TRASHRACK.	1	EA
7	REMOVE & DISPOSE OF EXISTING IRRIGATION FIELD DRAIN HEADWALL. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE HEADWALL TRASHRACK.	2	EA
8	REMOVE & DISPOSE OF EXISTING IRRIGATION DELIVERY STRUCTURE. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE GRATE COVERS, GATES, & ANCILLARY METALWORK.	1	EA
9	REMOVE & DISPOSE OF EXISTING IRRIGATION DIVISION STRUCTURE. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE GRATE COVERS, GATES, & ANCILLARY METALWORK.	1	EA
10	PAVEMENT CUT, TRENCH BACKFILL & SURFACE REPLACEMENT PER MAG STD DET 200-1 & 200-2 ("T-TOP" TRENCH REPAIR) WITH 1/2 SACK CLSM BACKFILL. MATCH EX PAVEMENT.	232	SY

Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.

File Name: 181301643-REMOVALS_LAT-7.DWG HAR/UBH GGB CTS 03.20.26
Dwn Chkd Dsgn MM.DD.YY

Permit-Seal

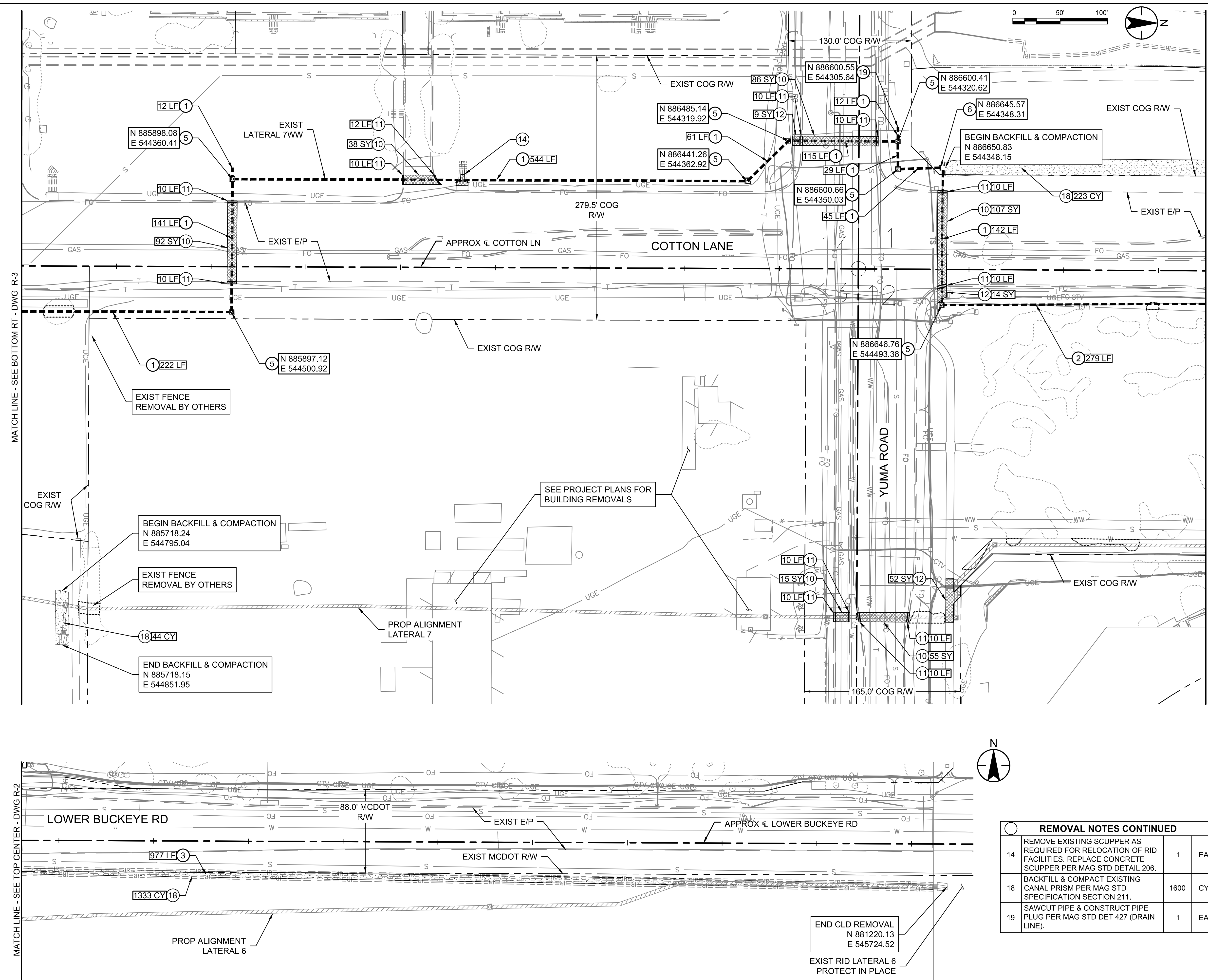
 Expires 12/31/2028

Client/Project
**ROOSEVELT IRRIGATION DISTRICT
 LATERALS 6, 7 & 7WW**
 ADOT LOOP 303
 PACKAGE 1
 Goodyear, Arizona

Title
**LATERALS 7 & 7WW
 REMOVALS**

Project No. 181301643 Scale 1" = 50'
 Drawing No. R-3 Sheet 11 of 61 Revision 0

U:\181301643\Drawings\civil_lat-7\181301643-REMOVALS_LAT-7.dwg 2026/03/20 11:49 AM By: Hart, Bryan



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.	1323	LF
2	REMOVE & DISPOSE OF EXISTING 24" HDPE. BACKFILL & COMPACT PER MAG STD SPECIFICATIONS SECTION 601.	279	LF
3	REMOVE & DISPOSE OF EXISTING RID LATERAL CONCRETE LINING. BACKFILL & COMPACT PER MAG STD SPECIFICATIONS SECTION 211.	977	LF
5	REMOVE & DISPOSE OF EXISTING IRRIGATION MANHOLE. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE MANHOLE COVER.	7	EA
6	REMOVE & DISPOSE OF EXISTING IRRIGATION HEADWALL. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE HEADWALL TRASHRACK.	1	EA
10	PAVEMENT CUT, TRENCH BACKFILL & SURFACE REPLACEMENT PER MAG STD DET 200-1 & 200-2 ("T-TOP" TRENCH REPAIR) WITH 1/2 SACK CLSM BACKFILL. MATCH EX PAVEMENT.	393	SY
11	SAWCUT & REMOVE EXISTING CURB & GUTTER AS REQUIRED FOR RELOCATION OF RID FACILITIES. REPLACE CURB & GUTTER PER MAG STD DETAIL 220, 6" VERTICAL CURB & GUTTER (TYPE A).	122	LF
12	SAWCUT & REMOVE EXISTING SIDEWALK AS REQUIRED FOR RELOCATION OF RID FACILITIES. REPLACE SIDEWALK PER MAG STD DETAIL 230.	75	SY

Stantec
Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.6100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643-REMOVALS_LAT-7.DWG HARUBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

Expires 12/31/2028

Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
LATERALS 7 & 7WW
REMOVALS

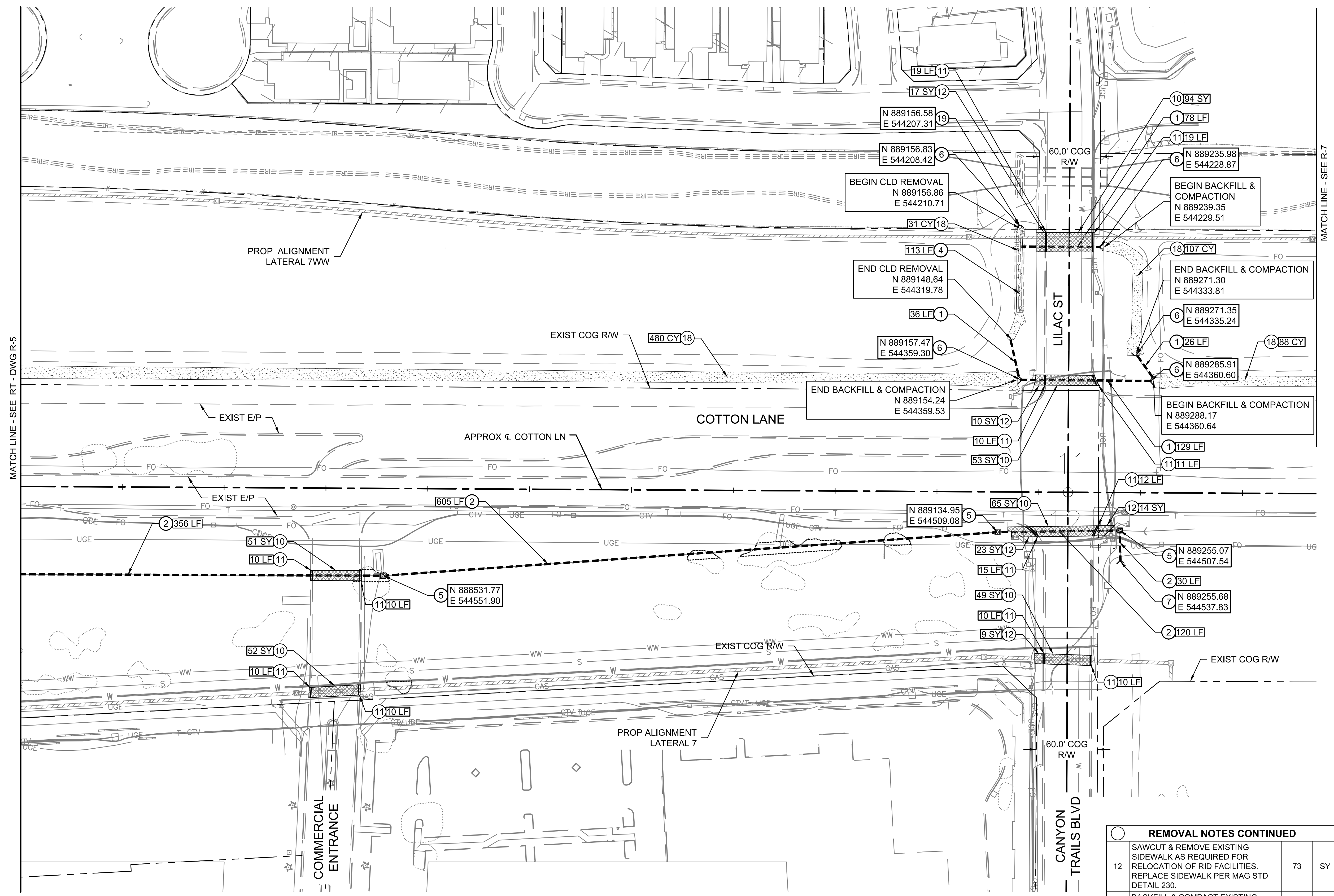
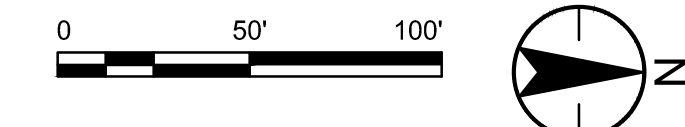
Project No. 181301643 Scale 1" = 50'
Drawing No. R-4 Sheet 12 of 61 Revision 0

REMOVAL NOTES CONTINUED

14	REMOVE EXISTING SCUPPER AS REQUIRED FOR RELOCATION OF RID FACILITIES. REPLACE CONCRETE SCUPPER PER MAG STD DETAIL 206.	1	EA
18	BACKFILL & COMPACT EXISTING CANAL PRISM PER MAG STD SPECIFICATION SECTION 211.	1600	CY
19	SAWCUT PIPE & CONSTRUCT PIPE PLUG PER MAG STD DET 427 (DRAIN LINE).	1	EA

U:\181301643\Drawings\civil_lat-7\181301643-REMOVALS_LAT-7.dwg 2026/03/20 11:49 AM By: Hant, Bryan

ROOSEVELT RID IRRIGATION DISTRICT



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

Item	Description	Quantity	Unit
1	REMOVE & DISPOSE OF EXISTING 24" - 36" RGRCP. BACKFILL & COMPACT PER MAG STD SPECIFICATIONS SECTION 601.	269	LF
2	REMOVE & DISPOSE OF EXISTING 24" HDPE. BACKFILL & COMPACT PER MAG STD SPECIFICATIONS SECTION 601.	1111	LF
4	REMOVE & DISPOSE OF EXISTING PRIVATE DITCH CONCRETE LINING. BACKFILL & COMPACT PER MAG STD SPECIFICATIONS SECTION 211.	113	LF
5	REMOVE & DISPOSE OF EXISTING IRRIGATION MANHOLE. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE MANHOLE COVER.	3	EA
6	REMOVE & DISPOSE OF EXISTING IRRIGATION HEADWALL. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE HEADWALL TRASHRACK.	5	EA
7	REMOVE & DISPOSE OF EXISTING IRRIGATION FIELD DRAIN HEADWALL. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE HEADWALL TRASHRACK.	1	EA
10	PAVEMENT CUT, TRENCH BACKFILL & SURFACE REPLACEMENT PER MAG STD DET 200-1 & 200-2 ("T-TOP" TRENCH REPAIR) WITH 1/2 SACK CLSM BACKFILL. MATCH EX PAVEMENT.	364	SY
11	SAWCUT & REMOVE EXISTING CURB & GUTTER AS REQUIRED FOR RELOCATION OF RID FACILITIES. REPLACE CURB & GUTTER PER MAG STD DETAIL 220, 6" VERTICAL CURB & GUTTER (TYPE A).	146	LF

REMOVAL NOTES CONTINUED

12	SAWCUT & REMOVE EXISTING SIDEWALK AS REQUIRED FOR RELOCATION OF RID FACILITIES. REPLACE SIDEWALK PER MAG STD DETAIL 230.	73	SY
18	BACKFILL & COMPACT EXISTING CANAL PRISM PER MAG STD SPECIFICATION SECTION 211.	706	CY
19	SAWCUT PIPE & CONSTRUCT PIPE PLUG PER MAG STD DET 427 (DRAIN LINE).	1	EA

Stantec
Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.8100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643-REMOVALS_LAT-7.DWG HAR/UBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

Expires 12/31/2028

Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW

ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
LATERAL 7WW & 7WW REACH
REMOVALS

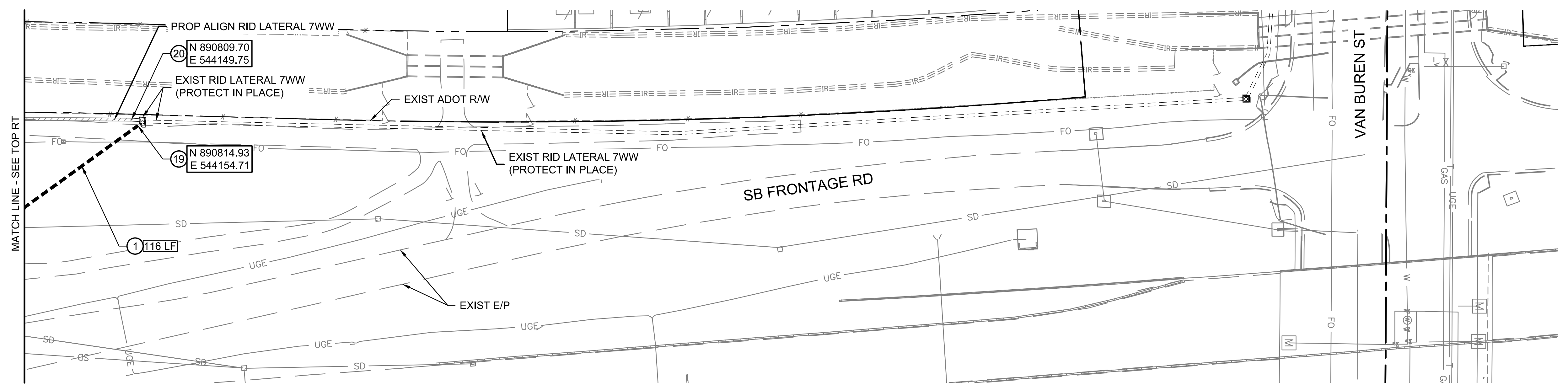
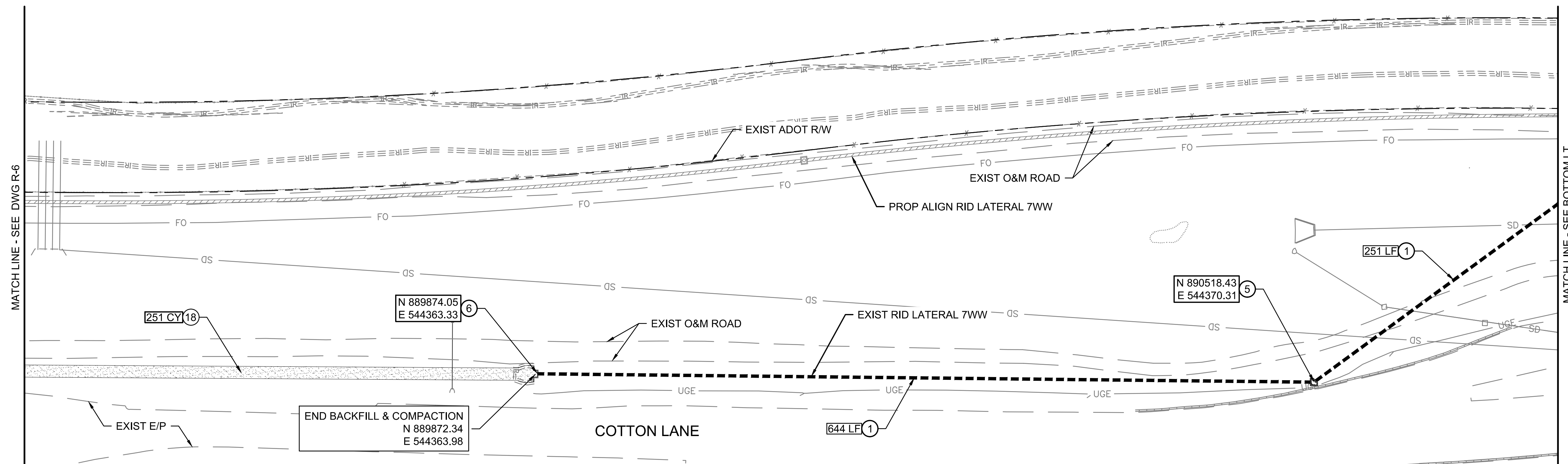
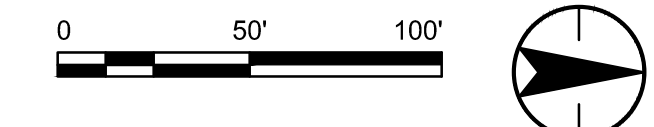
Project No. 181301643
Drawing No. R-6

Scale 1" = 50'
Sheet 14 of 61

Revision 0

U:\181301643\Drawings\civil_lat-7\181301643-REMOVALS_LAT-7.dwg 2026/03/20 11:49 AM By: Hart, Bryan

ROOSEVELT RID IRRIGATION DISTRICT



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

Item	Description	Quantity	Unit
1	REMOVE & DISPOSE OF EXISTING 24" - 36" RGRCP. BACKFILL & COMPACT PER MAG STD SPECIFICATIONS SECTION 601.	1011	LF
5	REMOVE & DISPOSE OF EXISTING IRRIGATION MANHOLE. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE MANHOLE COVER.	1	EA
6	REMOVE & DISPOSE OF EXISTING IRRIGATION HEADWALL. BACKFILL AND COMPACT PER MAG STD SPECIFICATIONS SECTION 211. SALVAGE HEADWALL TRASHRACK.	1	EA
18	BACKFILL & COMPACT EXISTING CANAL PRISM PER MAG STD SPECIFICATION SECTION 211.	251	CY
19	SAWCUT PIPE & CONSTRUCT PIPE PLUG PER MAG STD DET 427 (DRAIN LINE).	1	EA
20	REMOVE AND DISPOSE OF PIPE PLUG	1	EA



Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643-REMOVALS_LAT-7.DWG HARUBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

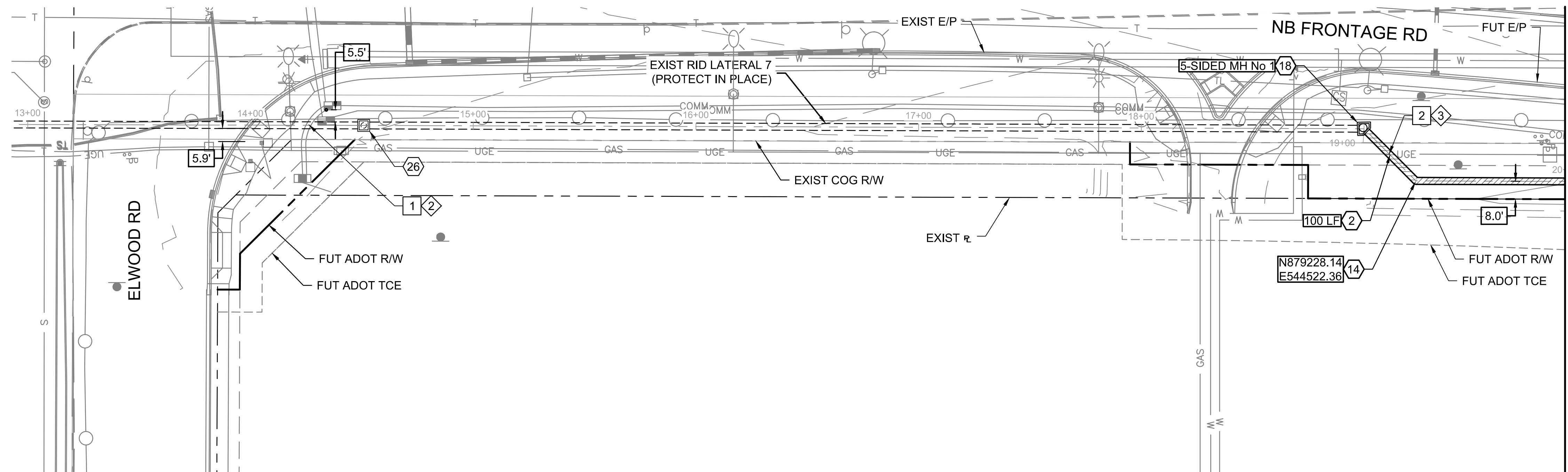
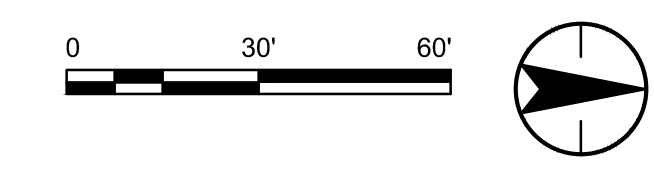
Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW

ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
LATERAL 7WW
REMOVALS

Project No. 181301643	Scale 1" = 50'
Drawing No. R-7	Sheet 15 of 61
	Revision 0

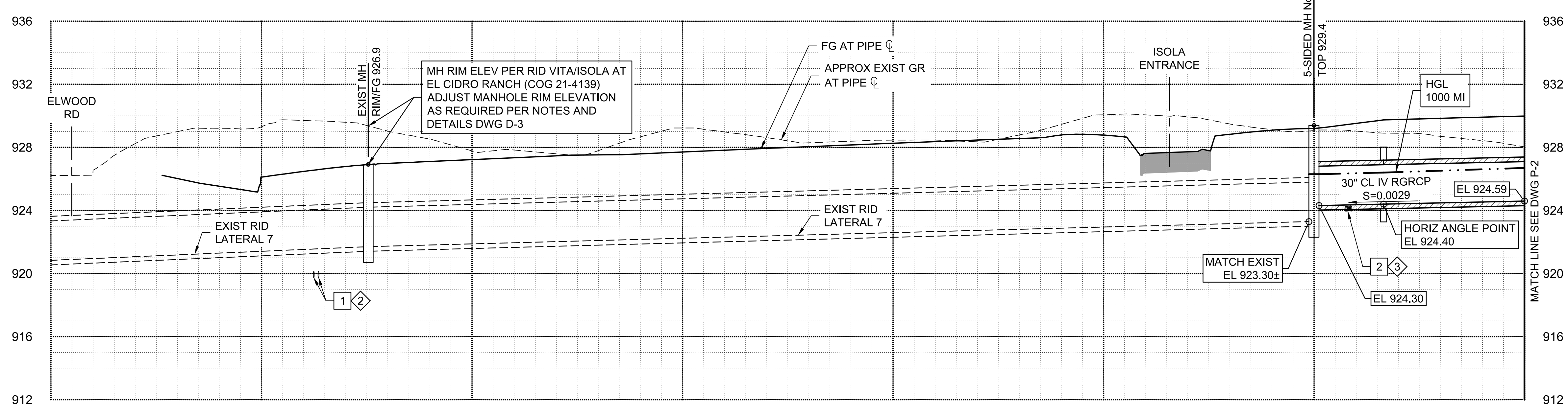
U:\181301643\Drawings\civil_lat-7\181301643-REMOVALS_LAT-7.dwg 2026/03/20 11:49 AM By: Hant, Bryan



UTILITY TABLE					
KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POT HOLE	PROPOSED	MIN FOR CLEARANCE
1	COMM (2)	878730.81 544497.54	-	920.15	1'-0"
2	UGE	879215.88 544510.33	POT HOLE: 924.23	-	1'-0"

CONSTRUCTION NOTES			
2	FURNISH AND INSTALL 30" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	100	LF
14	CONSTRUCT PIPE COLLAR PER DETAIL 8, DWG D-1.	1	EA
18	CONSTRUCT 5-SIDED MANHOLE SEE DWG S-4, DIM H UNDER 10-FT.	1	EA
26	ADJUST MANHOLE TOP ELEVATION TO MATCH FINISH GRADE SEE DWG D-3 FOR MANHOLE ADJUSTMENT NOTES & DETAILS.	1	EA

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.		
3	EXISTING UTILITY IN CONFLICT WITH PROPOSED RID FACILITIES. REFER TO UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.		



Stantec
 Copyright Reserved
 The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
 The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.
 File Name: 181301643.LAT7PP.DWG
 HARUBH GGB CTS 03.20.26
 Dwn. Chkd. Dsgn. MM.DD.YY

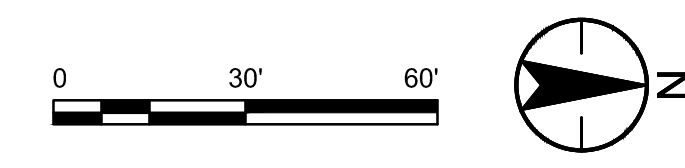
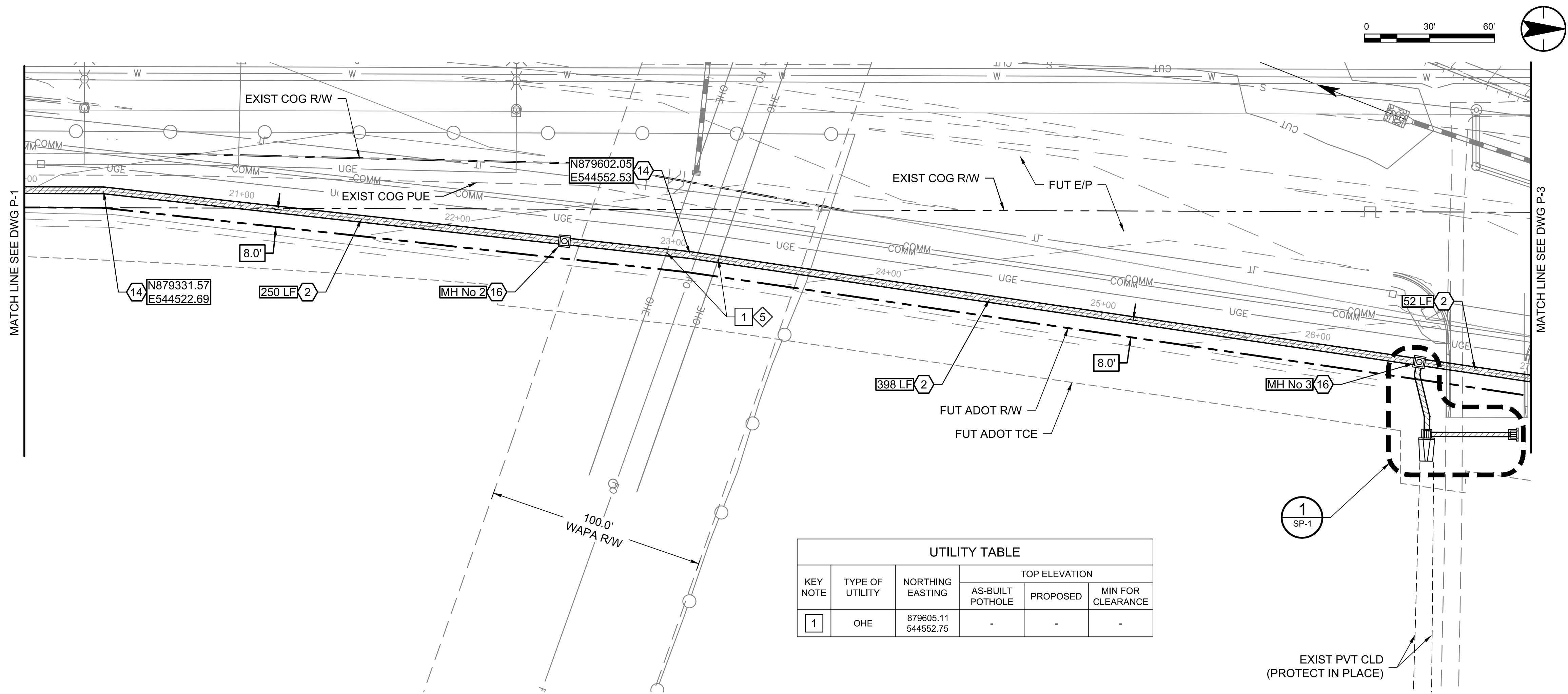
Permit-Seal
 70263 CAMERON T SMITH
 03/20/26
 EXPIRES 12/31/2028

Client/Project
ROOSEVELT IRRIGATION DISTRICT
 LATERALS 6, 7 & 7WW
 ADOT LOOP 303
 PACKAGE 1
 Goodyear, Arizona

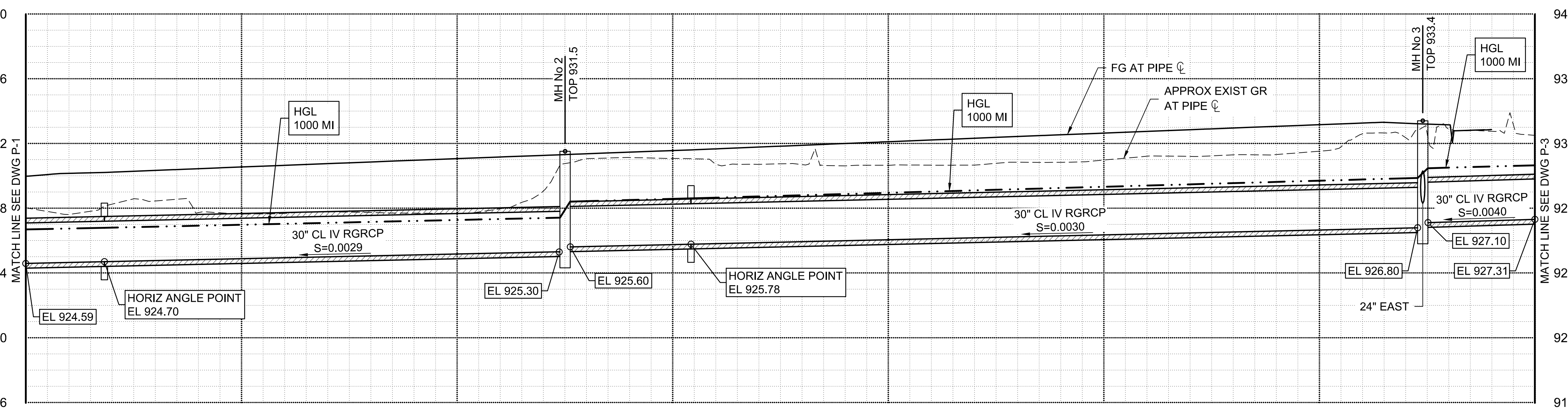
Title
LATERAL 7
PLAN & PROFILE

Project No. 181301643 Scale 1"=30' HOR 1"=4' VERT
 Drawing No. P-1 Sheet 16 of 61 Revision 0

U:\181301643\Drawings\civil_lat-7\181301643.LAT7PP.dwg 2026/03/20 11:52 AM By: Harb. Bryan



UTILITY TABLE					
KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POT HOLE	PROPOSED	MIN FOR CLEARANCE
1	OHE	879605.11 544552.75	-	-	-



- CONSTRUCTION NOTES**
- 2 FURNISH AND INSTALL 30" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL. 700 LF
 - 14 CONSTRUCT PIPE COLLAR PER DETAIL 8, DWG D-1. 2 EA
 - 16 CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT. 2 EA
- UTILITY NOTES**
- 5 CAUTION! OVERHEAD ELECTRIC LINES, PROTECT IN PLACE.

Stantec
 Copyright Reserved
 The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
 The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP.DWG
 HARUBH GGB CTS 03.20.26
 Dwn Chkd Dsgn MM.DD.YY

Permit-Seal

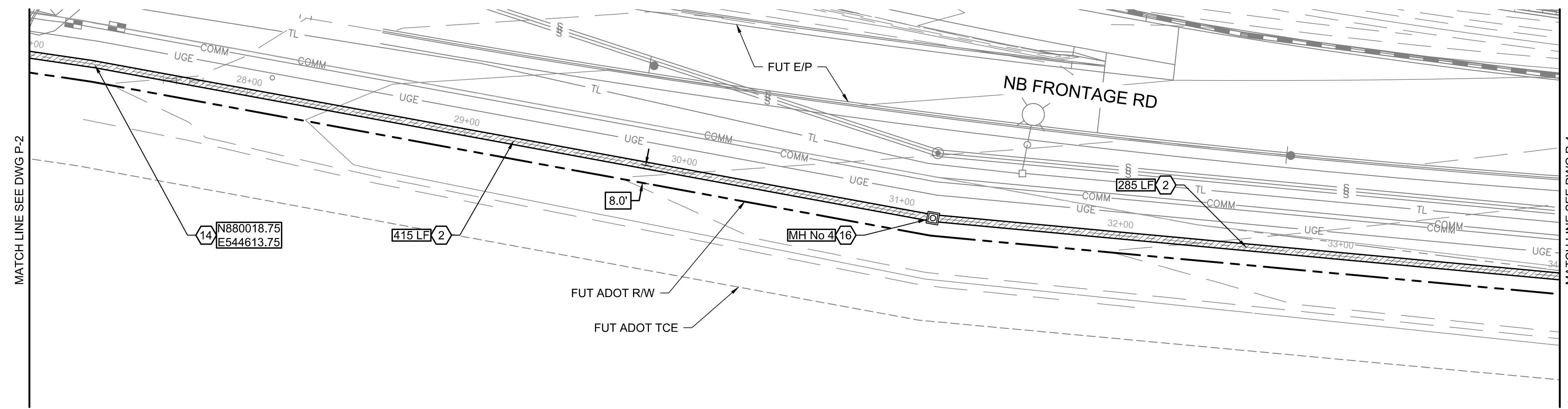
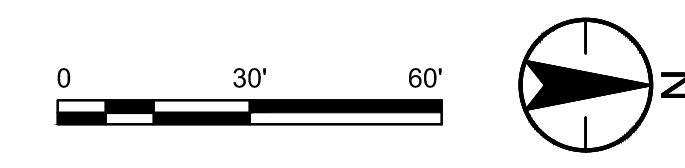
Expires 12/31/2028

Client/Project
**ROOSEVELT IRRIGATION DISTRICT
 LATERALS 6, 7 & 7WW**
 ADOT LOOP 303
 PACKAGE 1
 Goodyear, Arizona

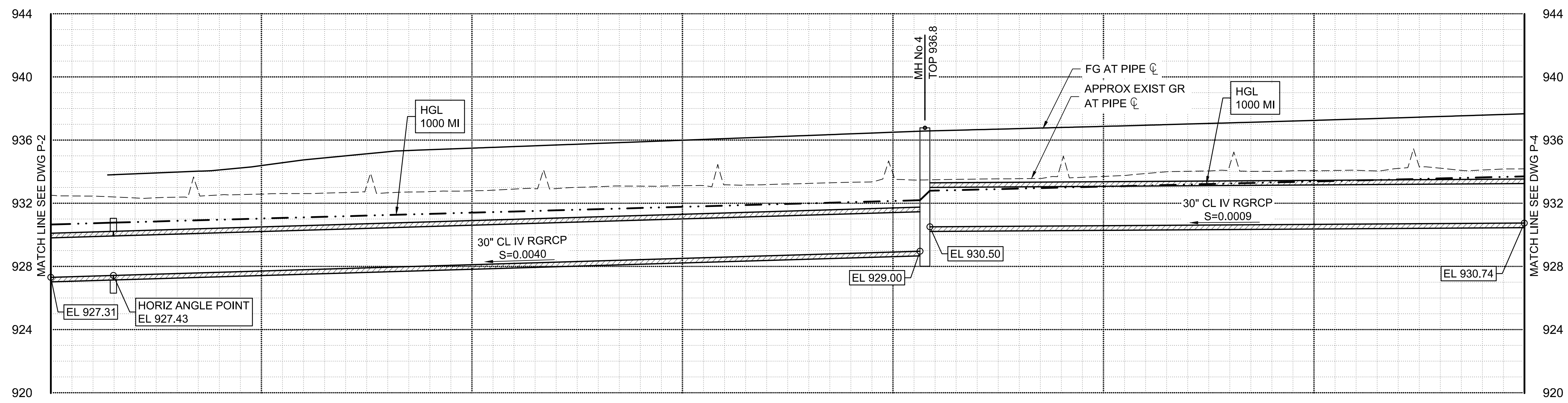
Title
**LATERAL 7
 PLAN & PROFILE**

Project No. 181301643 Scale 1"=30' HOR 1"=4' VERT
 Drawing No. P-2 Sheet 17 of 61 Revision 0

U:\181301643\Drawings\civil\lat-7\181301643.LAT7PP.dwg 2026/03/20 11:52 AM By: Harl Bryan



CONSTRUCTION NOTES			
2	FURNISH AND INSTALL 30" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	700	LF
14	CONSTRUCT PIPE COLLAR PER DETAIL 8, DWG D-1.	1	EA
16	CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT.	1	EA



Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP.DWG
Dwn: HARUBH Chkd: GGB Dsgn: CTS
Date: 03.20.26
MM.DD.YY

Permit-Seal

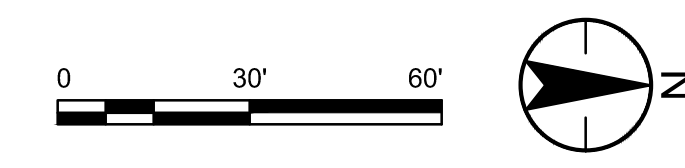
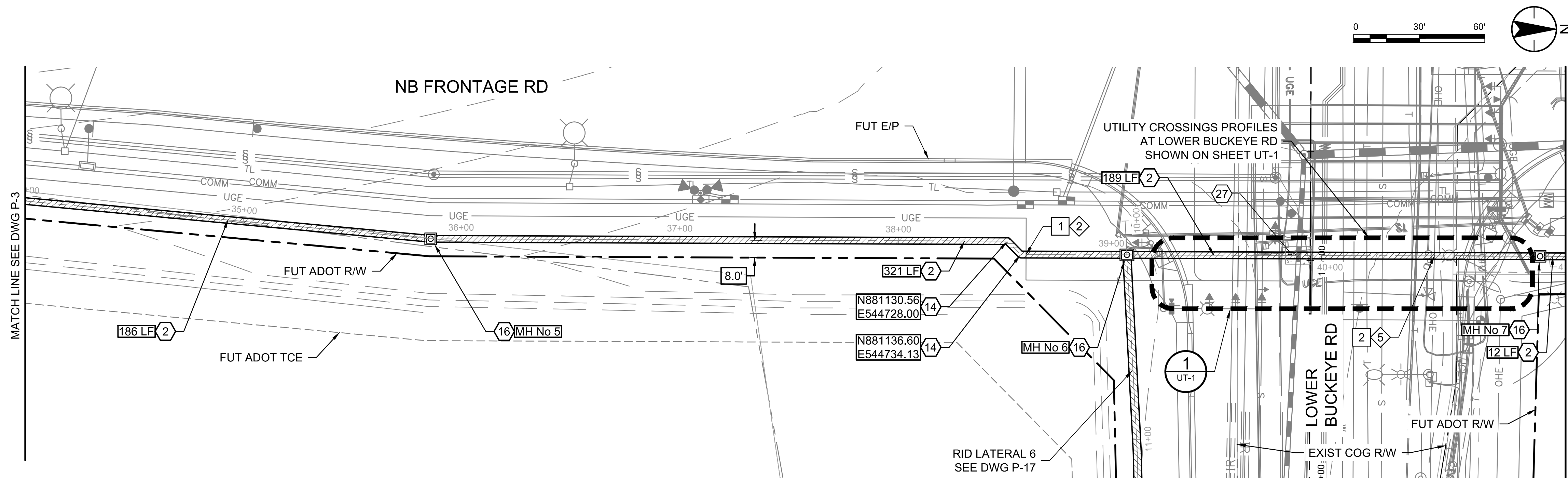
Expires 12/31/2028

Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
**LATERAL 7
PLAN & PROFILE**

Project No. 181301643 Scale 1"=30' HOR 1"=4' VERT
Drawing No. P-3 Sheet 18 of 61 Revision 0

U:\181301643\Drawings\civil_lat-7\181301643.LAT7PP.dwg 2026/03/20 11:52 AM By: Harit, Bryan

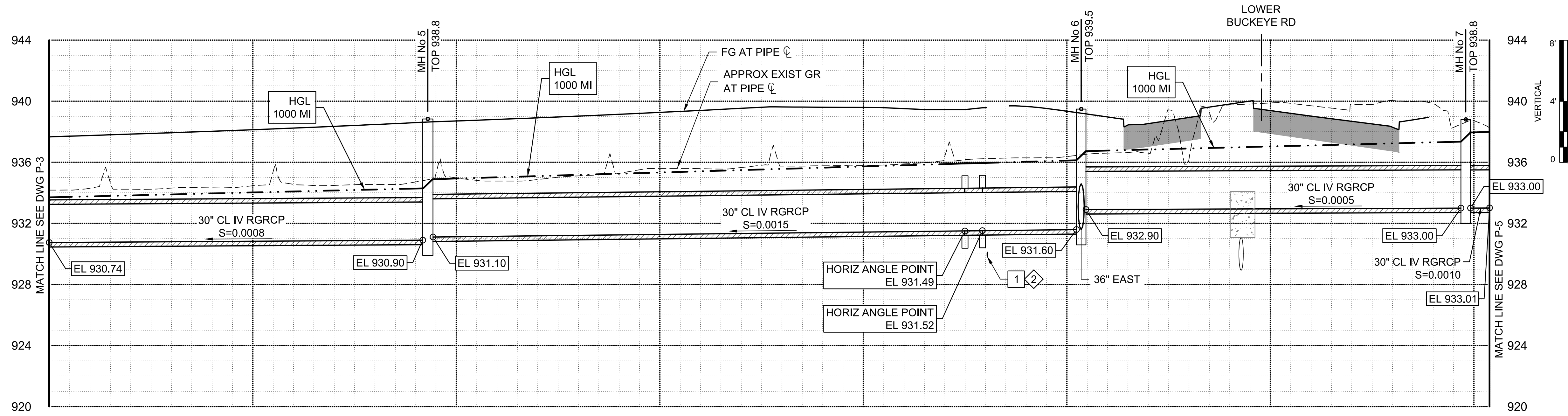


MATCH LINE SEE DWG P-3

MATCH LINE SEE DWG P-5

CONSTRUCTION NOTES			
2	FURNISH AND INSTALL 30" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	708	LF
14	CONSTRUCT PIPE COLLAR PER DETAIL 8, DWG D-1.	2	EA
16	CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT.	3	EA
27	SLURRY BACKFILL REQUIRED IN PIPE CROSSINGS WHERE 1-FT CLEARANCE IS NOT ACHIEVABLE. CENTERED ON CROSSING PIPE.	12	LF
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.		
5	CAUTION! OVERHEAD ELECTRIC LINES, PROTECT IN PLACE.		

KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POTHOLE	PROPOSED	MIN FOR CLEARANCE
1	UGE	881139.03 544734.14	-	930.10	1'-0"
2	OHE	881325.79 544734.76	-	-	-



Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name:	181301643.LAT7PP.DWG	HARUBH	GGB	CTS	03.20.26
Dwn.	Chkd.	Dsgn.	MM.DD.YY		

Permit-Seal

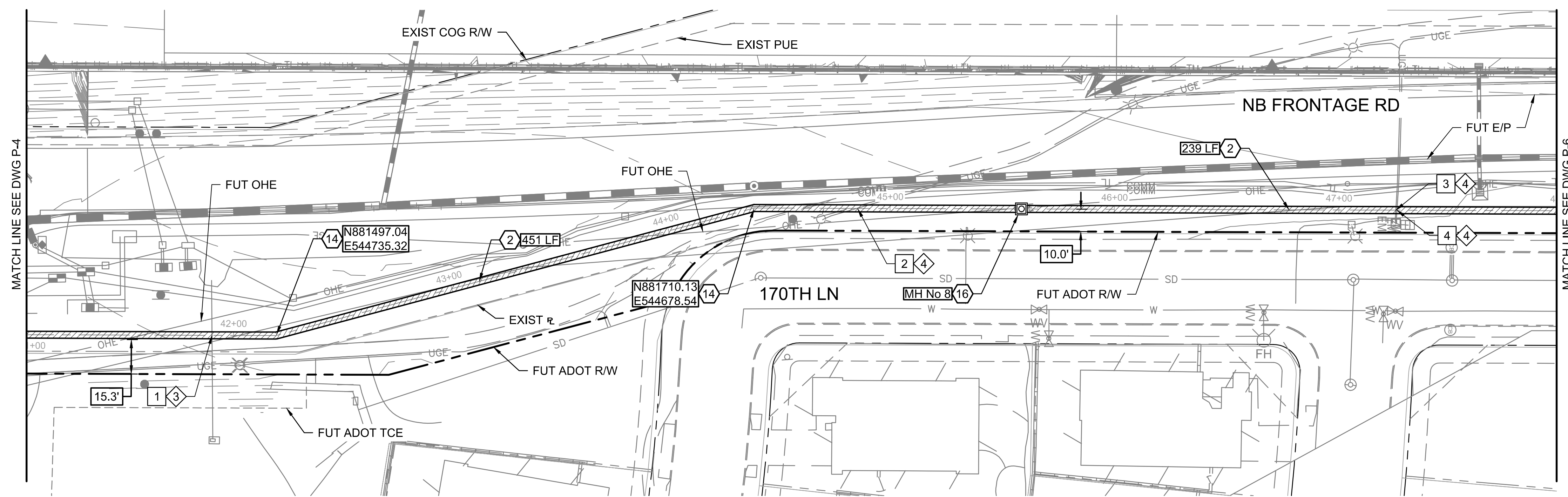
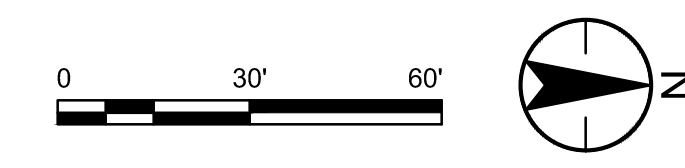
Expires 12/31/2028

Client/Project
**ROOSEVELT IRRIGATION DISTRICT
 LATERALS 6, 7 & 7WW**
 ADOT LOOP 303
 PACKAGE 1
 Goodyear, Arizona

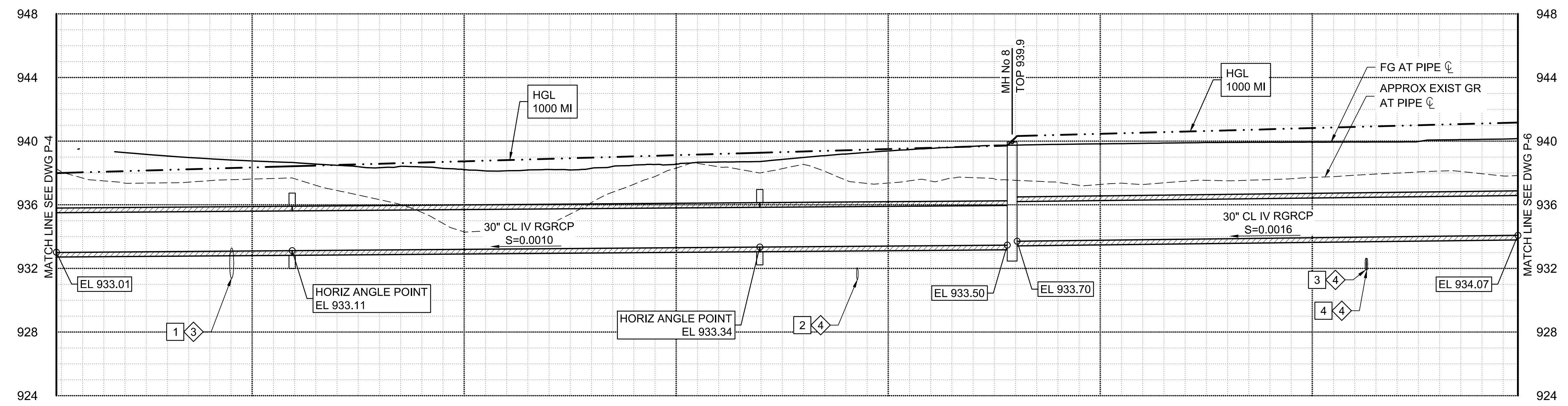
Title
**LATERAL 7
 PLAN & PROFILE**

Project No.	181301643	Scale	1"=30' HOR 1"=4' VERT
Drawing No.	P-4	Sheet	19 of 61
Revision	0		

U:\181301643\Drawings\civil_lat-7\181301643.LAT7PP.dwg 2026/03/20 11:53 AM By: Harit, Bryan



KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POTHOLE	PROPOSED	MIN FOR CLEARANCE
1	STORM	881468.50 544735.23	SURVEY: 933.30	-	1'-0"
2	UGE	881755.83 544678.69	NOT POTHOLED	-	1'-0"
3	UGE	881996.01 544679.49	NOT POTHOLED	-	1'-0"
4	UGE	881996.50 544679.49	NOT POTHOLED	-	1'-0"



- CONSTRUCTION NOTES**
- 2 FURNISH AND INSTALL 30" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL. 690 LF
 - 14 CONSTRUCT PIPE COLLAR PER DETAIL 8, DWG D-1. 2 EA
 - 16 CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT. 1 EA
- UTILITY NOTES**
- 3 EXISTING UTILITY IN CONFLICT WITH PROPOSED RID FACILITIES. REFER TO UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.
 - 4 UNLOCATED EXISTING UNDERGROUND UTILITY. CONTRACTOR TO VERIFY SIZE AND DEPTH PRIOR TO CONSTRUCTION. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.

Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP.DWG
Dwn: HARUBH Chkd: GGB Dsgn: CTS
MM.DD.YY 03.20.26

Permit-Seal

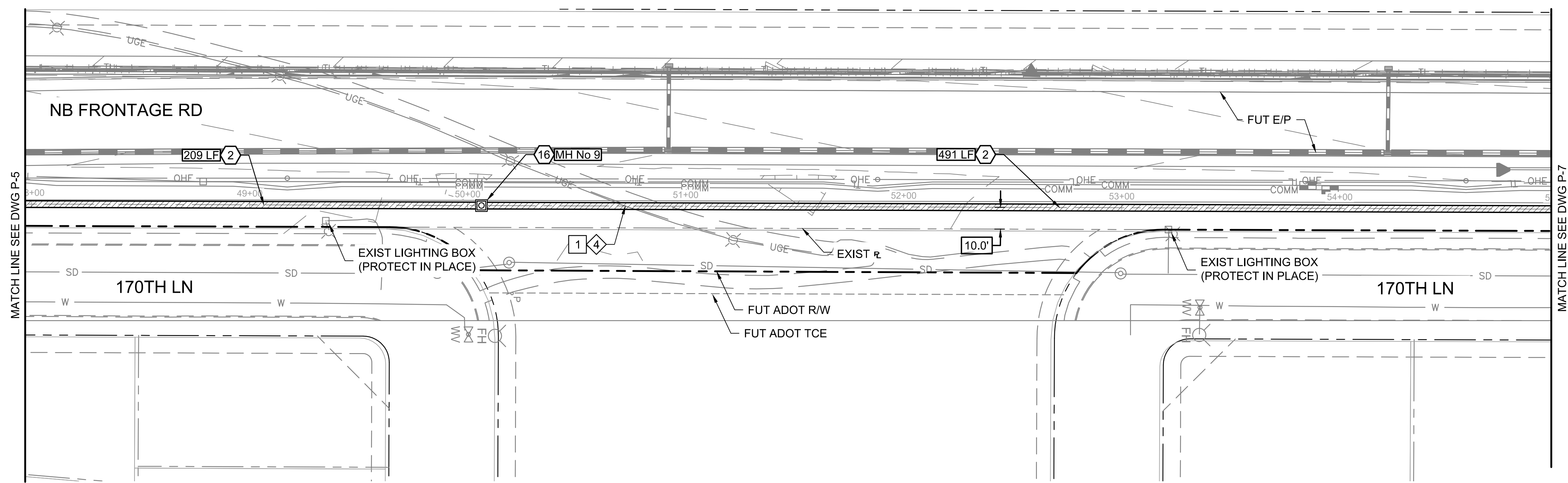
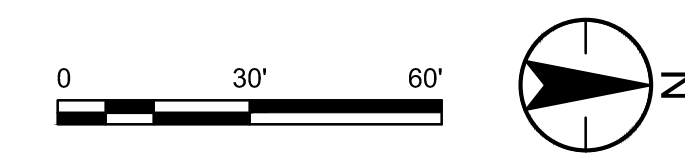
Expires 12/31/2028

Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
LATERAL 7
PLAN & PROFILE

Project No. 181301643 Scale 1"=30' HOR 1"=4' VERT
Drawing No. P-5 Sheet 20 of 61 Revision 0

U:\181301643\Drawings\civil_lat-7\181301643.LAT7PP.dwg 2026/03/20 11:53 AM By: Harit, Bryan



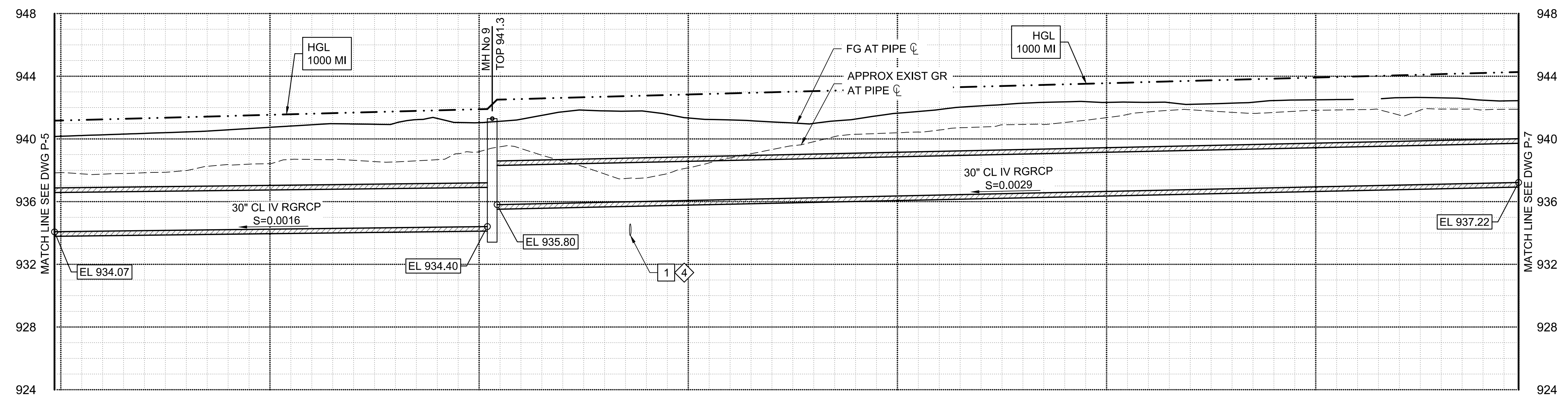
MATCH LINE SEE DWG P-5

MATCH LINE SEE DWG P-7

UTILITY TABLE					
KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POT HOLE	PROPOSED	MIN FOR CLEARANCE
1	UGE	882342.98 544680.64	NOT POT HOLED	-	1'-0"

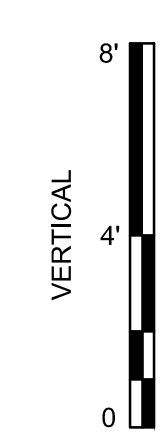
CONSTRUCTION NOTES			
2	FURNISH AND INSTALL 30" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	700	LF
16	CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT.	1	EA

UTILITY NOTES			
4	UNLOCATED EXISTING UNDERGROUND UTILITY. CONTRACTOR TO VERIFY SIZE AND DEPTH PRIOR TO CONSTRUCTION. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.		



MATCH LINE SEE DWG P-5

MATCH LINE SEE DWG P-7



Stantec
Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.6100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP.DWG HARUBH GGB CTS 03.20.26
Dwn Chkd Dsgn MM.DD.YY

Permit-Seal

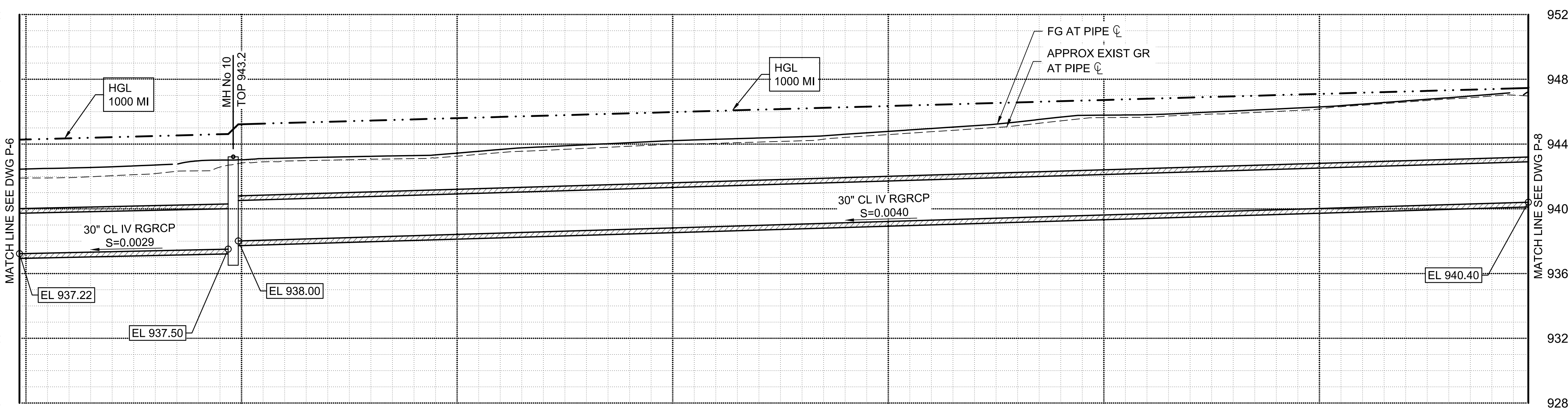
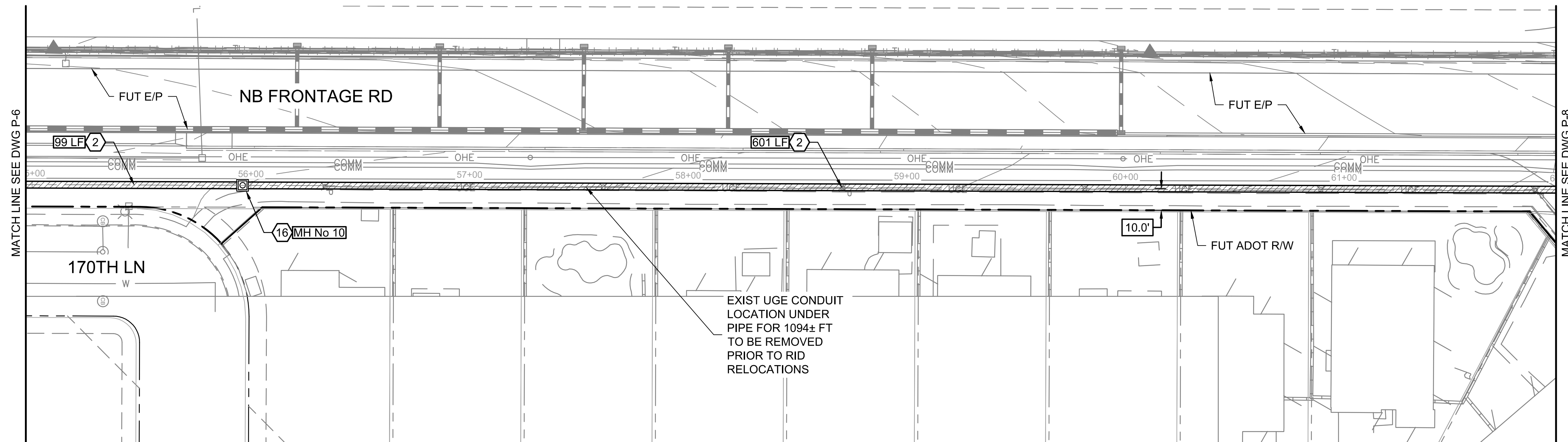
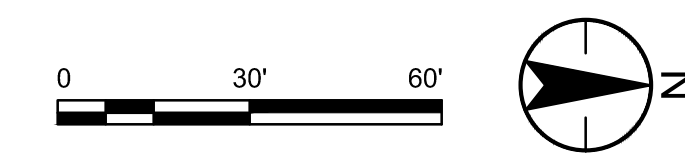
Expires 12/31/2028

Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**

ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
**LATERAL 7
PLAN & PROFILE**

Project No. 181301643	Scale 1"=30' HOR 1"=4' VERT
Drawing No. P-6	Sheet 21 of 61
	Revision 0



CONSTRUCTION NOTES			
2	FURNISH AND INSTALL 30" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	700	LF
16	CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT.	1	EA

Stantec
 Copyright Reserved
 The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
 The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP.DWG
 Dwn: HARUBH GGB CTS 03.20.28
 Chkd: Dsgn: MM.DD.YY

Permit-Seal

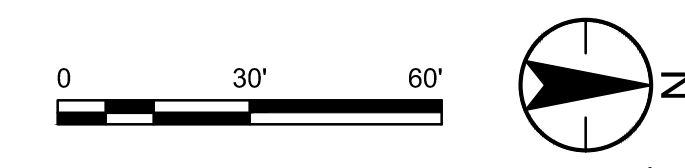
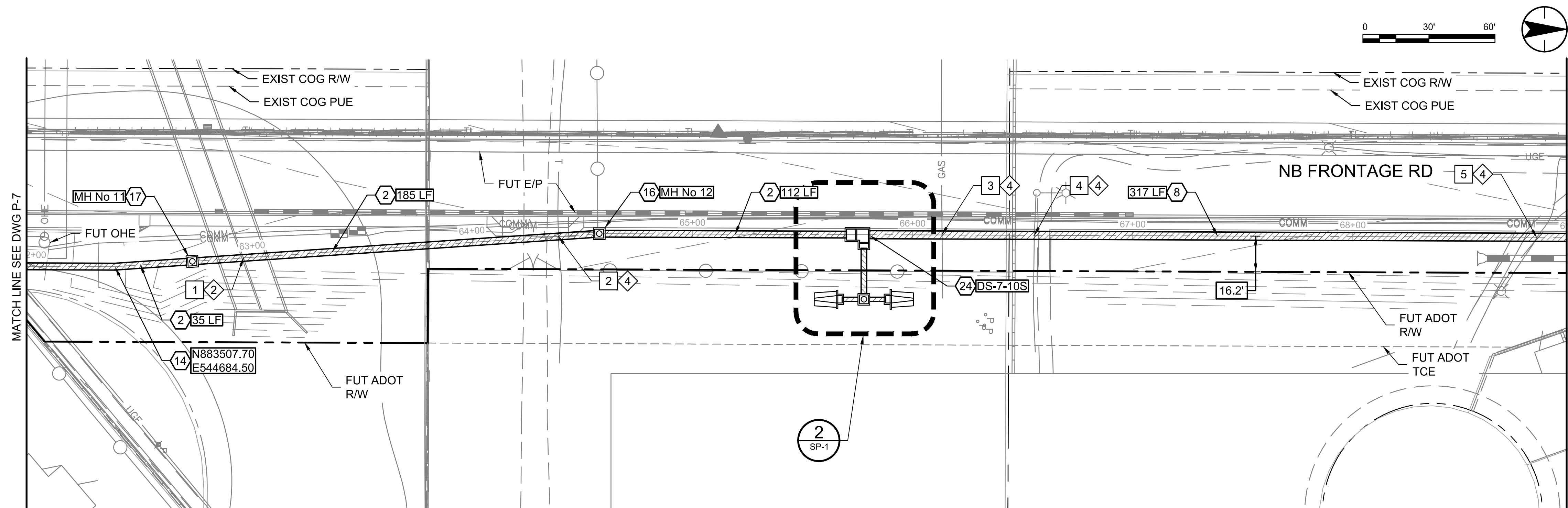
Expires 12/31/2028

Client/Project
 ROOSEVELT IRRIGATION DISTRICT
 LATERALS 6, 7 & 7WW
 ADOT LOOP 303
 PACKAGE 1
 Goodyear, Arizona

Title
**LATERAL 7
 PLAN & PROFILE**

Project No. 181301643 Scale 1"=30' HOR 1"=4' VERT
 Drawing No. P-7 Sheet 22 of 61 Revision 0

U:\181301643\Drawings\civil_lat-7\181301643.LAT7PP.dwg 2026/03/20 11:53 AM By: Harit, Bryan



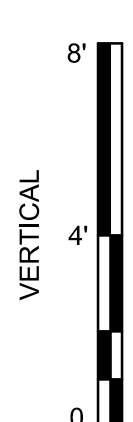
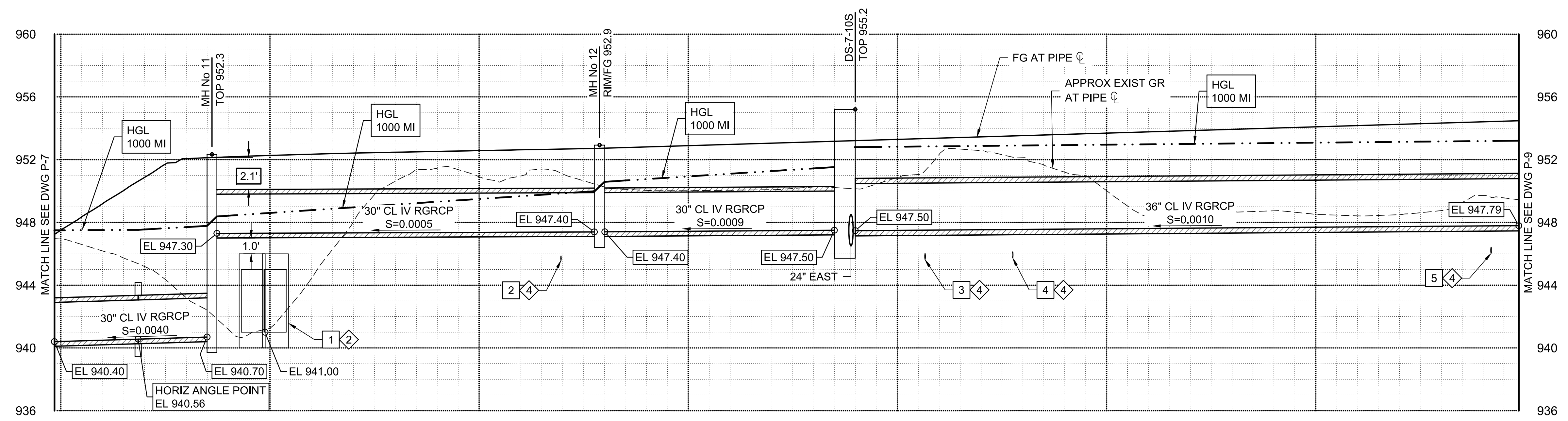
MATCH LINE SEE DWG P-7

MATCH LINE SEE DWG P-9

CONSTRUCTION NOTES			
2	FURNISH AND INSTALL 30" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	372	LF
8	FURNISH AND INSTALL 36" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	317	LF
14	CONSTRUCT PIPE COLLAR PER DETAIL 8, DWG D-1.	1	EA
16	CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT.	1	EA
17	CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C 10-FT AND OVER.	1	EA
24	CONSTRUCT PIPED LATERAL TURNOUT STRUCTURE 7-10S SEE DWG S-8.	1	EA

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.		
4	UNLOCATED EXISTING UNDERGROUND UTILITY. CONTRACTOR TO VERIFY SIZE AND DEPTH PRIOR TO CONSTRUCTION. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.		

UTILITY TABLE					
KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POTHOLE	PROPOSED	MIN FOR CLEARANCE
1	SD	883566.15 544680.53	-	946.00	1'-0"
2	TEL	883709.26 544670.79	NOT POTHOLED	-	1'-0"
3	GAS	883883.43 544670.11	NOT POTHOLED	-	1'-0"
4	UGE	883925.45 544670.27	NOT POTHOLED	-	1'-0"
5	UGE	884153.67 544671.27	NOT POTHOLED	-	1'-0"



Stantec
Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.6100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP.DWG
Dwn: HARUBH GGB CTS 03.20.26
Chkd: Dsgn: MM.DD.YY

Permit-Seal

Expires 12/31/2028

Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**

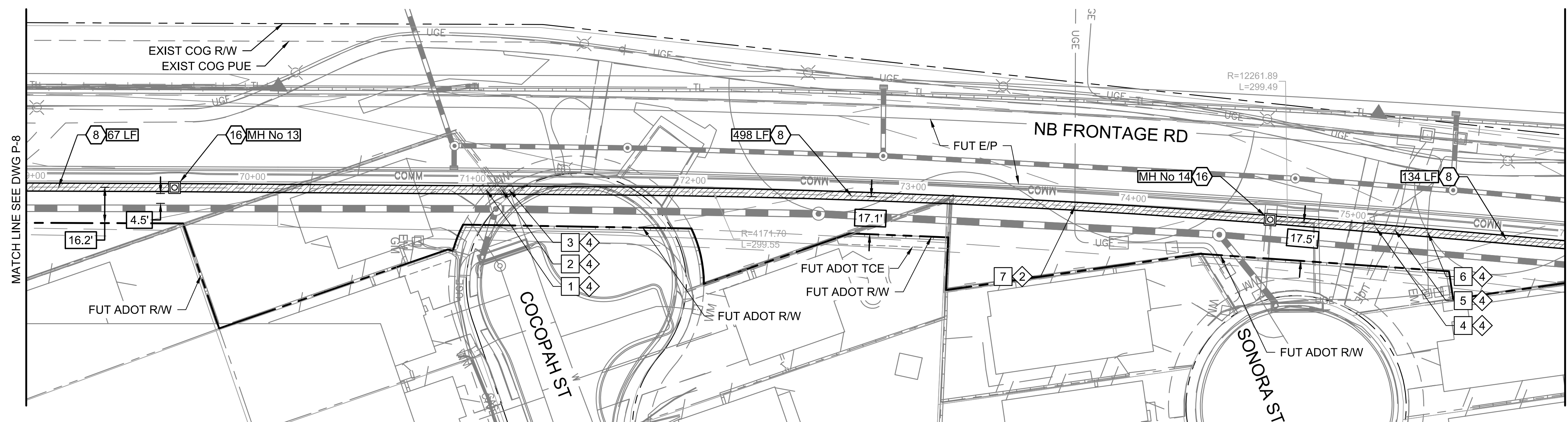
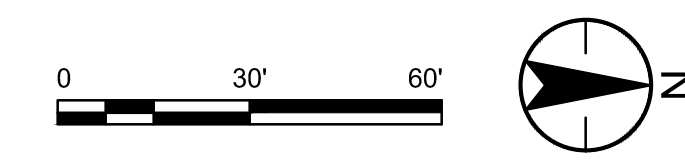
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
**LATERAL 7
PLAN & PROFILE**

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

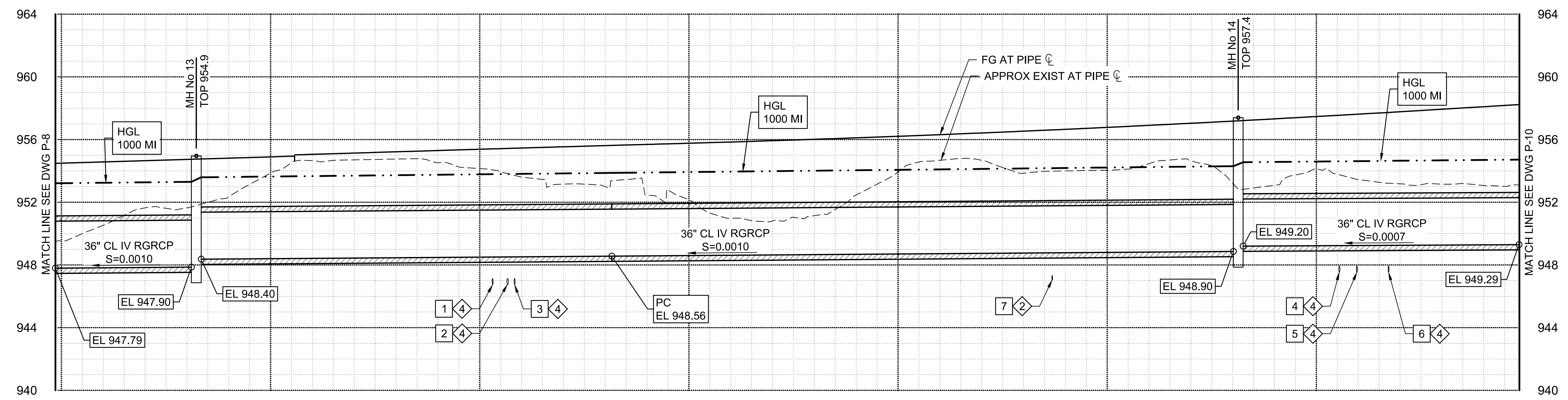
Drawing No. P-8
Sheet 23 of 61
Revision 0

U:\181301643\Drawings\civil_lat-7\181301643.LAT7PP.dwg 2026/03/20 11:53 AM By: Harit, Bryan



KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POTHOLE	PROPOSED	MIN FOR CLEARANCE
1	W	884376.33 544672.51	NOT POTHOLED	-	1'-0"
2	UGE	884383.53 544672.57	NOT POTHOLED	-	1'-0"
3	W	884386.86 544672.59	NOT POTHOLED	-	1'-0"
4	UGE	884780.68 544689.92	NOT POTHOLED	-	1'-0"
5	UGE	884789.04 544690.62	NOT POTHOLED	-	1'-0"
6	UGE	884804.01 544691.89	NOT POTHOLED	-	1'-0"
7	UGE	884643.75 544679.87	-	947.30	1'-0"

- CONSTRUCTION NOTES**
- 8 IV FURNISH AND INSTALL 36" RGRCP CL TRENCH DETAIL. 699 LF
 - 16 CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT. 2 EA
- 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.
 - 4 UNLOCATED EXISTING UNDERGROUND UTILITY. CONTRACTOR TO VERIFY SIZE AND DEPTH PRIOR TO CONSTRUCTION. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.



Stantec
Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.6100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP.DWG HARUBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

Expires 12/31/2028

Contact Arizona 811 at least two full working days before you begin excavation.
ARIZONA811
Call 811 or click Arizona811.com

Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**

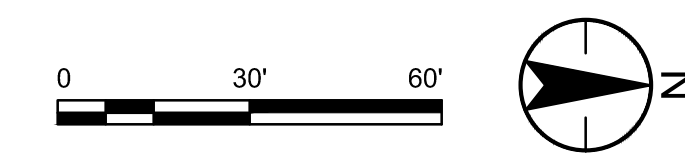
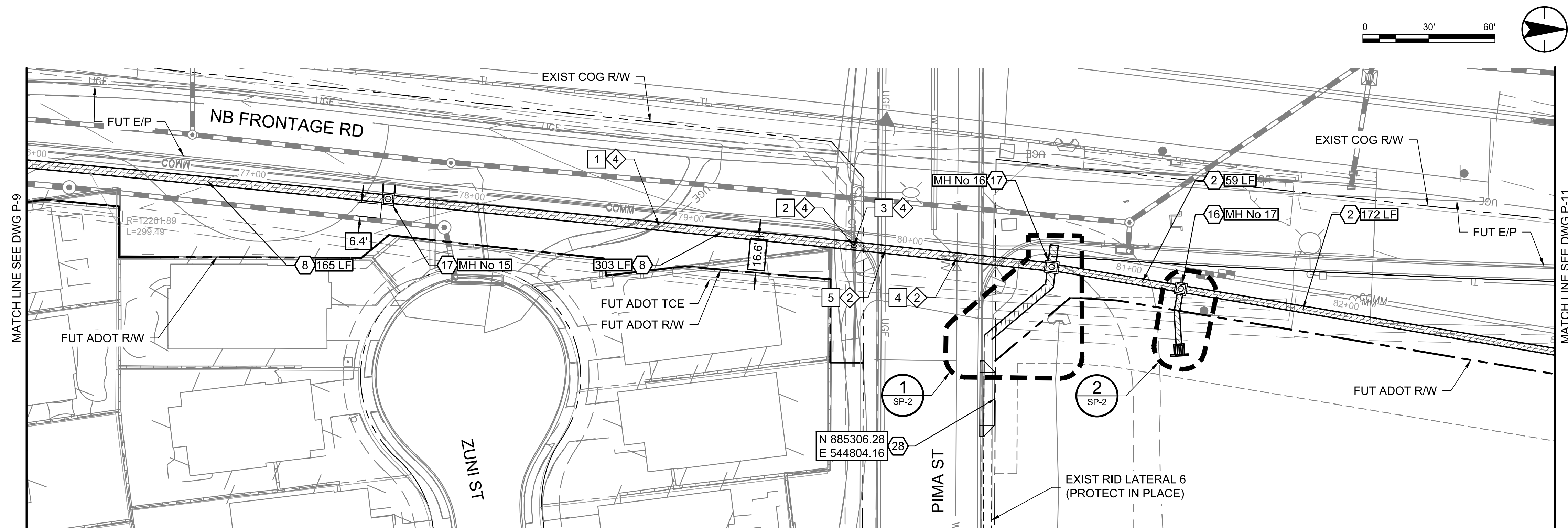
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
**LATERAL 7
PLAN & PROFILE**

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

Drawing No. P-9 Sheet 24 of 61 Revision 0

U:\181301643\Drawings\civil_lat-7\181301643.LAT7PP.dwg 2026/03/20 11:53 AM By: Harb, Bryan



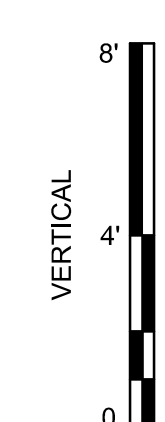
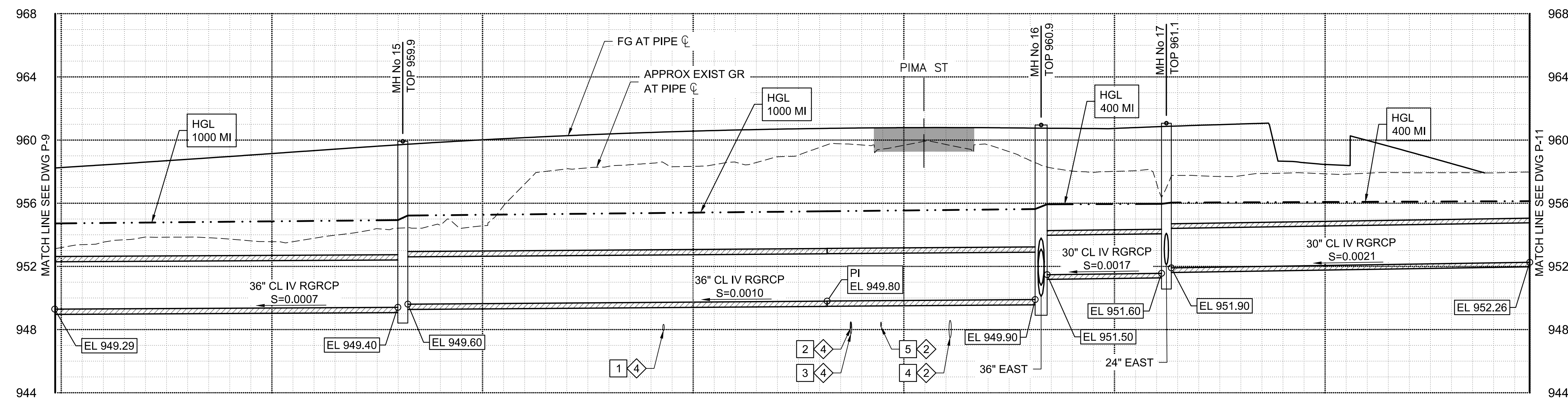
MATCH LINE SEE DWG P-9

MATCH LINE SEE DWG P-11

CONSTRUCTION NOTES			
2	FURNISH AND INSTALL 30" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	231	LF
8	FURNISH AND INSTALL 36" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	468	LF
16	CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT.	1	EA
17	CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C 10-FT AND OVER.	2	EA
28	CONSTRUCT 16-FT MINIMUM DRIVEWAY PER MAG STD DET 250 FOR OPERATION AND MAINTENANCE ROAD ACCESS.	1	EA

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.		
4	UNLOCATED EXISTING UNDERGROUND UTILITY. CONTRACTOR TO VERIFY SIZE AND DEPTH PRIOR TO CONSTRUCTION. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.		

UTILITY TABLE					
KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POTHOLE	PROPOSED	MIN FOR CLEARANCE
1	UGE	885153.88 544725.75	NOT POTHOLED	-	1'-0"
2	UGE	885242.25 544734.68	NOT POTHOLED	-	1'-0"
3	CTV	885242.38 544734.70	NOT POTHOLED	-	1'-0"
4	WAT	885289.24 544740.10	-	948.60	1'-0"
5	UGE	885256.58 544736.21	-	948.50	1'-0"



Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP.DWG
Dwn: HARUBH GGB CTS 03.20.26
Dwn: Chkd: Dsgn: MM.DD.YY

Permit-Seal

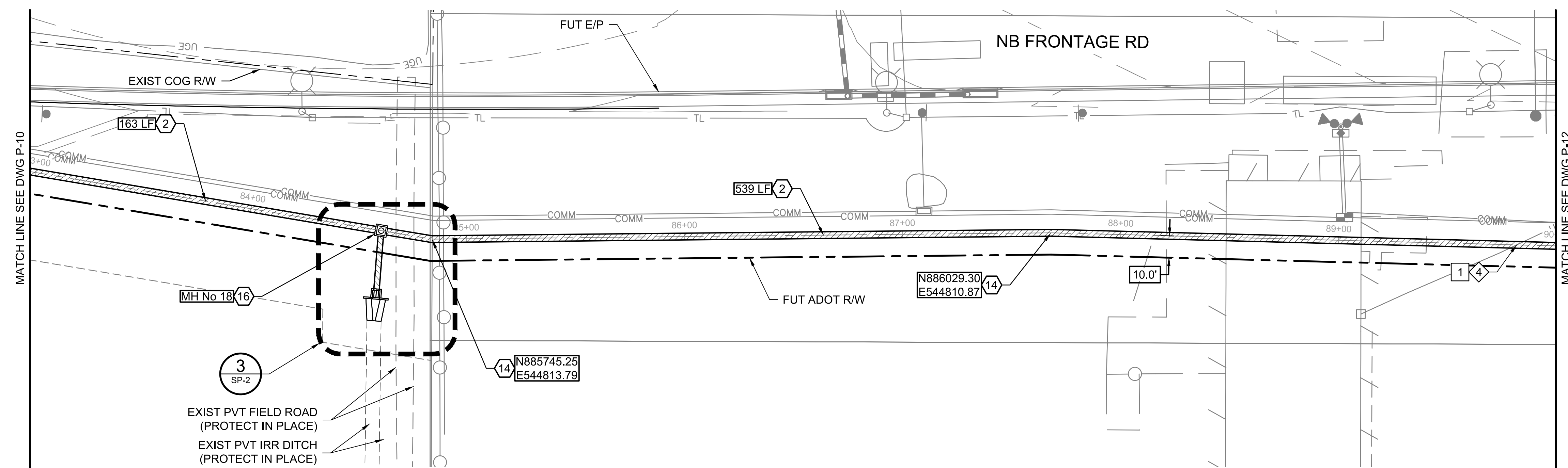
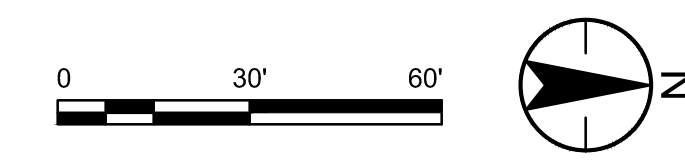
Expires 12/31/2028

Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
**LATERAL 7
PLAN & PROFILE**

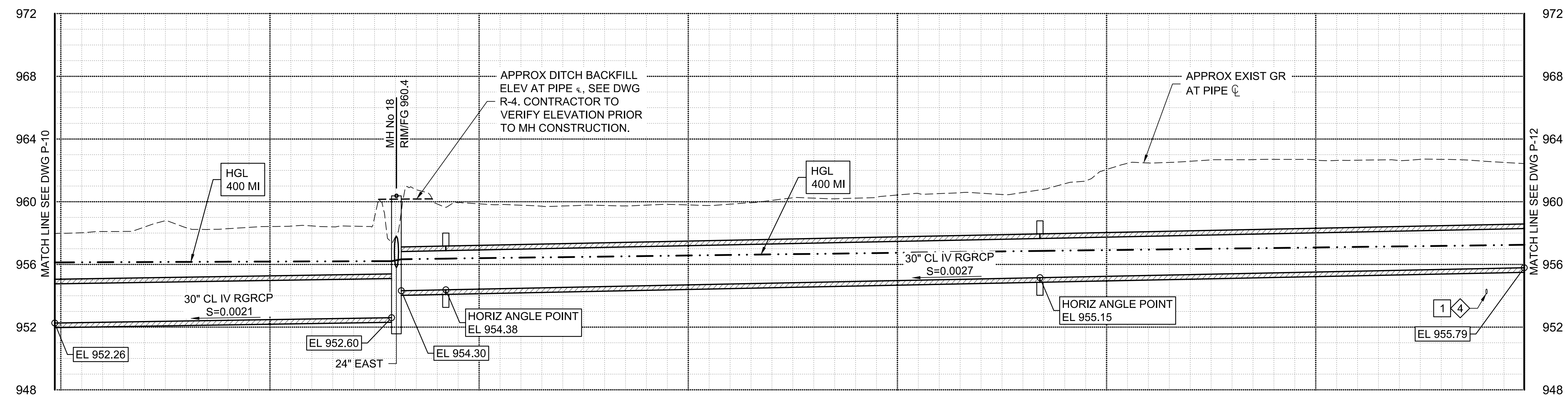
Project No. 181301643
Drawing No. P-10
Scale 1"=30' HOR 1"=4' VERT
Sheet 25 of 61
Revision 0

U:\181301643\Drawings\civil_lat-7\181301643.LAT7PP.dwg 2026/03/20 11:54 AM By: Haib, Bryan



CONSTRUCTION NOTES			
2	FURNISH AND INSTALL 30" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	702	LF
14	CONSTRUCT PIPE COLLAR PER DETAIL 8, DWG D-1.	2	EA
16	CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT.	1	EA
UTILITY NOTES			
4	UNLOCATED EXISTING UNDERGROUND UTILITY. CONTRACTOR TO VERIFY SIZE AND DEPTH PRIOR TO CONSTRUCTION. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.		

UTILITY TABLE					
KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POT HOLE	PROPOSED	MIN FOR CLEARANCE
1	UGE	886242.83 544816.42	NOT POT HOLED	-	1'-0"



Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP-2.DWG
Dwn: HARUBH GGB CTS 03.20.26
Chkd: Dsgn: MM.DD.YY

Permit-Seal

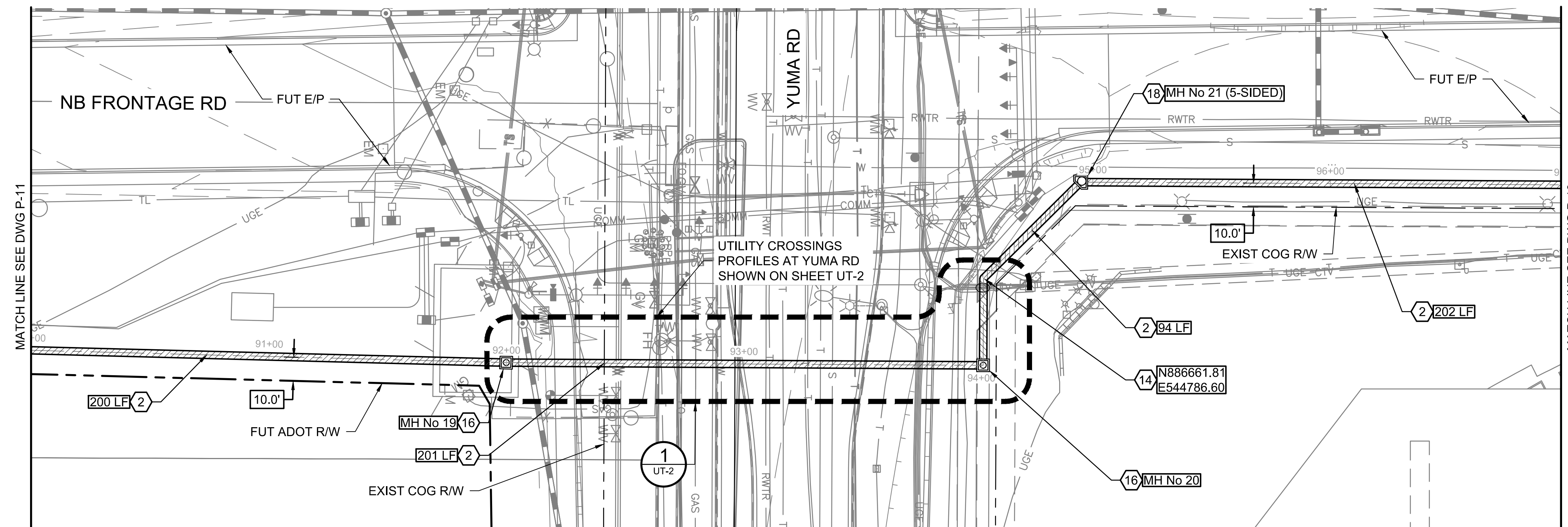
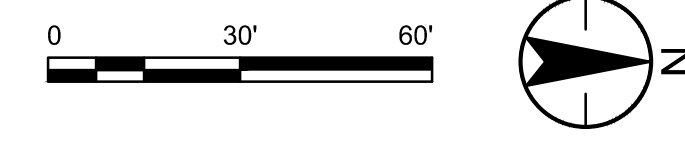
Expires 12/31/2028

Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

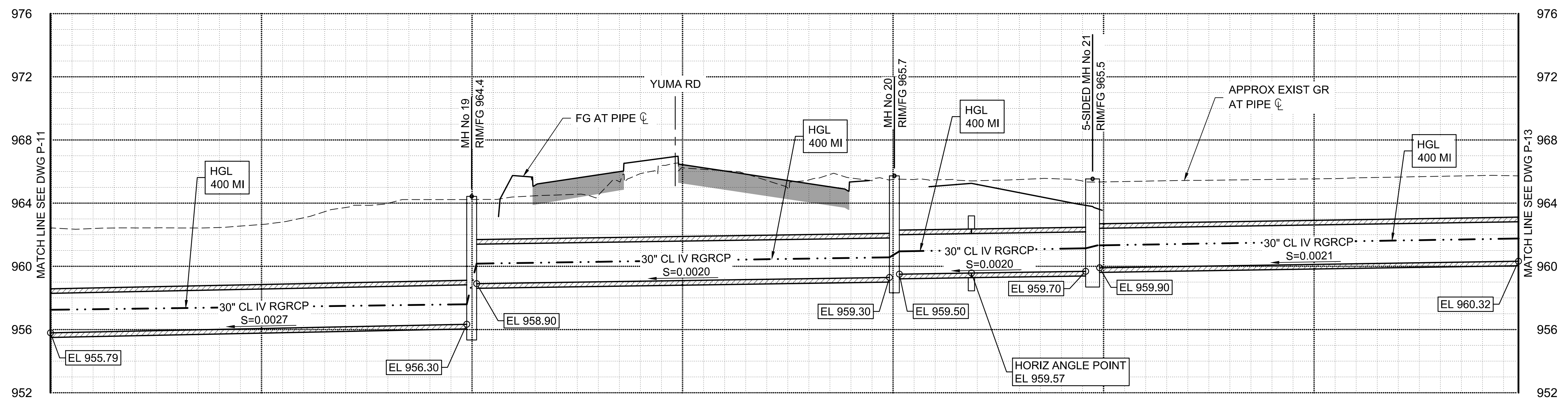
Title
**LATERAL 7
PLAN & PROFILE**

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

U:\181301643\Drawings\dwg\lat-7\181301643.LAT7PP-2.dwg 2025/09/20 11:57 AM By: Hant, Bryan



CONSTRUCTION NOTES			
2	FURNISH AND INSTALL 30" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	697	LF
14	CONSTRUCT PIPE COLLAR PER DETAIL 8, DWG D-1.	1	EA
16	CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT.	2	EA
18	CONSTRUCT 5-SIDED MANHOLE SEE DWG S-4, DIM H UNDER 10-FT.	1	EA



Stantec
 Copyright Reserved
 The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
 The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP-2.DWG
 HARUBH GGB CTS 03.20.26
 Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

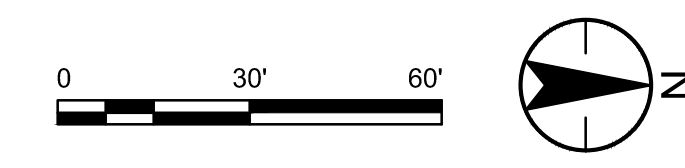
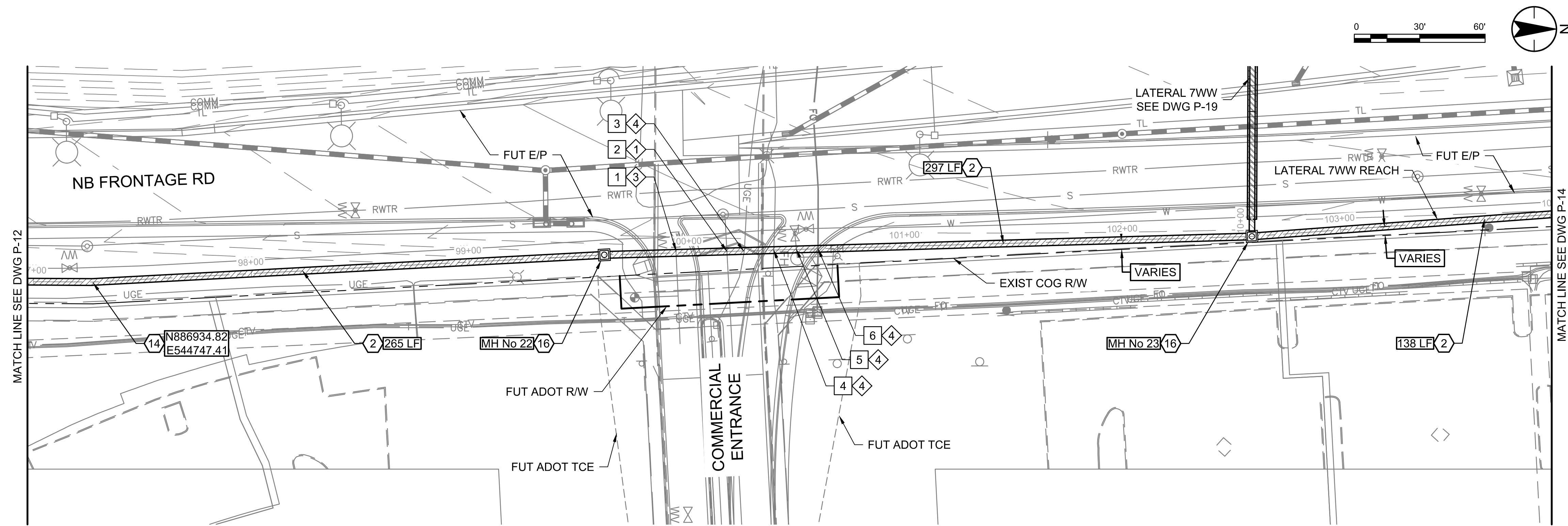
Expires 12/31/2028

Client/Project
**ROOSEVELT IRRIGATION DISTRICT
 LATERALS 6, 7 & 7WW**
 ADOT LOOP 303
 PACKAGE 1
 Goodyear, Arizona

Title
**LATERAL 7
 PLAN & PROFILE**

Project No. 181301643 Scale 1"=30' HOR 1"=4' VERT
 Drawing No. Sheet 27 of 61 Revision 0

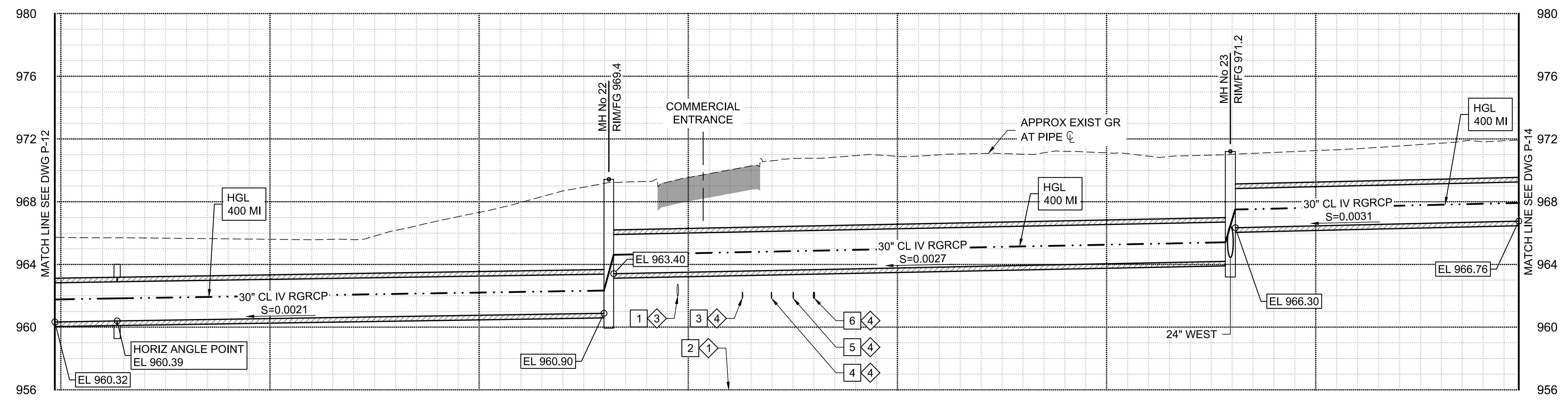
U:\181301643\Drawings\civil_lat-7\181301643.LAT7PP-2.dwg 2025/03/20 11:57 AM By: Harit, Bryan



CONSTRUCTION NOTES			
2	FURNISH AND INSTALL 30" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	700	LF
14	CONSTRUCT PIPE COLLAR PER DETAIL 8, DWG D-1.	1	EA
16	CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT.	2	EA

UTILITY NOTES			
1	EXISTING UTILITY. PROTECT IN PLACE. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.		
3	EXISTING UTILITY IN CONFLICT WITH PROPOSED FACILITIES. REFER TO UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.		
4	UNLOCATED EXISTING UNDERGROUND UTILITY. CONTRACTOR TO VERIFY SIZE AND DEPTH PRIOR TO CONSTRUCTION. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.		

UTILITY TABLE					
KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POT HOLE	PROPOSED	MIN FOR CLEARANCE
1	W	887202.47 544733.24	POT HOLE: 962.69	-	1'-0"
2	S	887225.83 544733.38	SURVEY: 952.23	-	1'-0"
3	UGE	887233.45 544733.16	NOT POTHOLED	-	1'-0"
4	UGE	887247.31 544732.77	NOT POTHOLED	-	1'-0"
5	W	887257.73 544732.47	NOT POTHOLED	-	1'-0"
6	CTV (2)	887267.62 544732.21	NOT POTHOLED	-	1'-0"



Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP-2.DWG
Dwn: HARUBH GGB CTS 03.20.26
Chkd: M.M.DD.YY

Permit-Seal

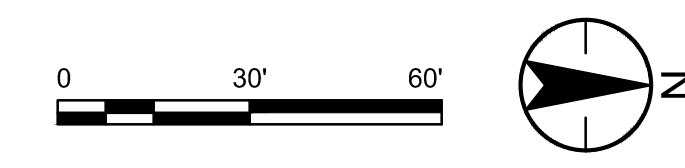
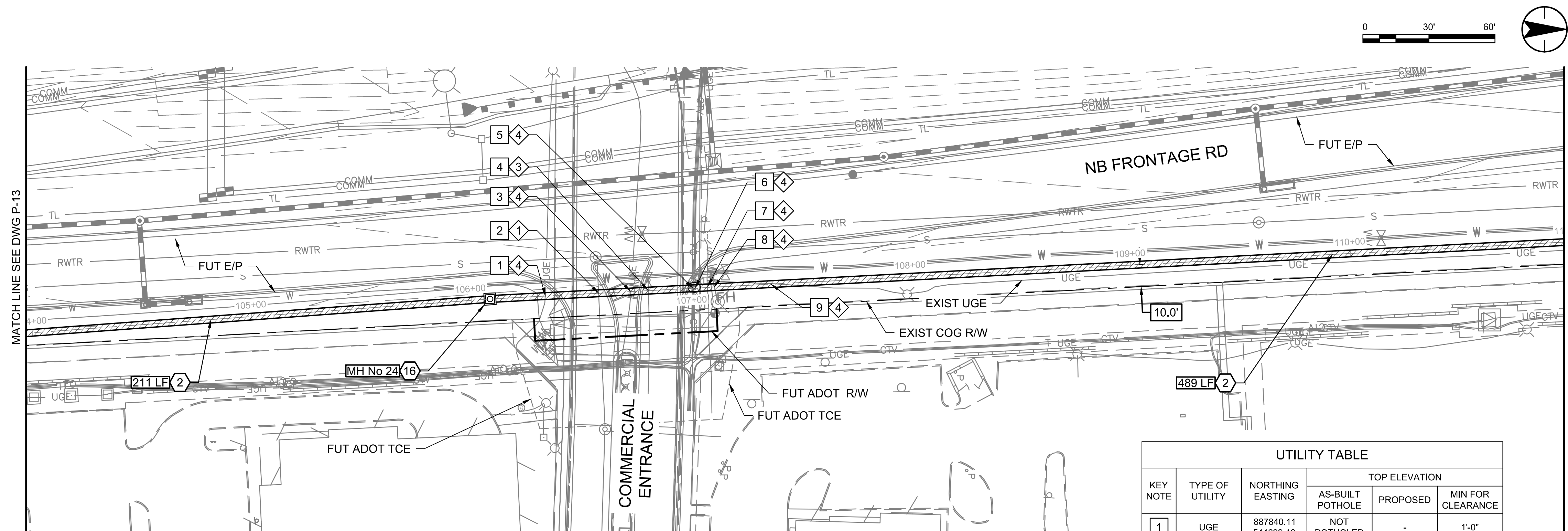
Expires 12/31/2028

Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

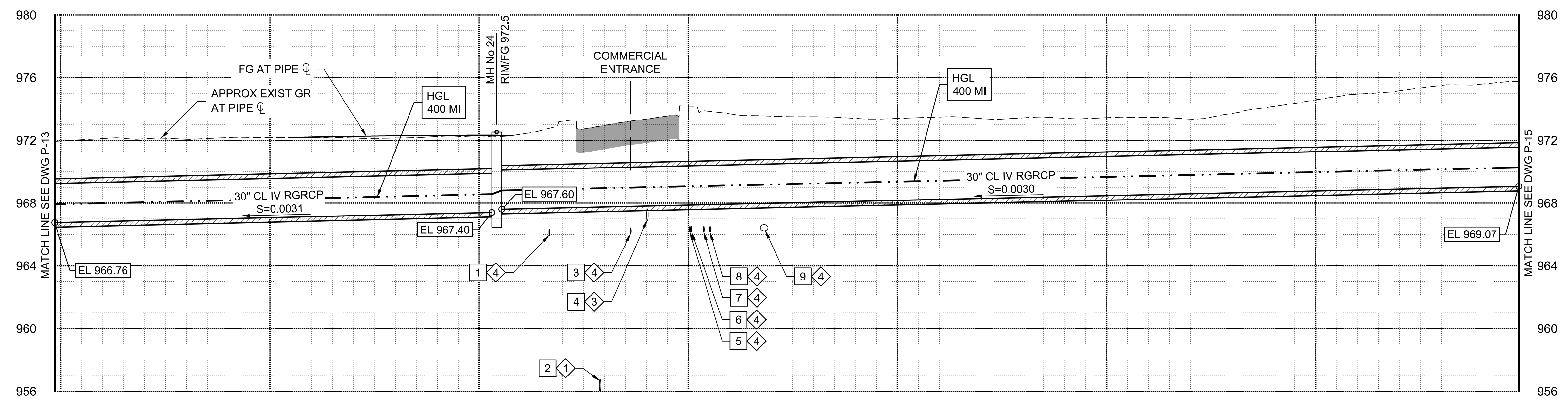
Title
**LATERALS 7 & 7WW REACH
PLAN & PROFILE**

Project No. 181301643
Drawing No. P-13
Scale 1"=30' HOR 1"=4' VERT
Sheet 28 of 61
Revision 0

U:\181301643\Drawings\civil_lat-7\181301643.LAT7PP-2.dwg 2025/09/20 11:57 AM By: Hant, Bryan



KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POTHOLE	PROPOSED	MIN FOR CLEARANCE
1	UGE	887840.11 544699.46	NOT POTHOLED	-	1'-0"
2	S	887864.32 544698.28	SURVEY: 956.75	-	1'-0"
3	UGE	887878.92 544697.46	NOT POTHOLED	-	1'-0"
4	WAT	887886.85 544697.03	POTHOLE: 967.59	-	1'-0"
5	FO	887907.14 544695.96	NOT POTHOLED	-	1'-0"
6	CTV	887908.10 544695.91	NOT POTHOLED	-	1'-0"
7	UGE	887913.79 544695.61	NOT POTHOLED	-	1'-0"
8	WAT	887916.83 544695.45	NOT POTHOLED	-	1'-0"
9	UGE	887942.60 544694.09	NOT POTHOLED	-	1'-0"



- CONSTRUCTION NOTES**
- 2 FURNISH AND INSTALL 30" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL. 700 LF
 - 16 CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT. 1 EA
- UTILITY NOTES**
- 1 EXISTING UTILITY. PROTECT IN PLACE. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.
 - 3 EXISTING UTILITY IN CONFLICT WITH PROPOSED RID FACILITIES. REFER TO UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.
 - 4 UNLOCATED EXISTING UNDERGROUND UTILITY. CONTRACTOR TO VERIFY SIZE AND DEPTH PRIOR TO CONSTRUCTION. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.

Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP-2.DWG
Dwn: HARUBH Chkd: GGB Dsgn: CTS
Date: 03.20.26
MM.DD.YY

Permit-Seal

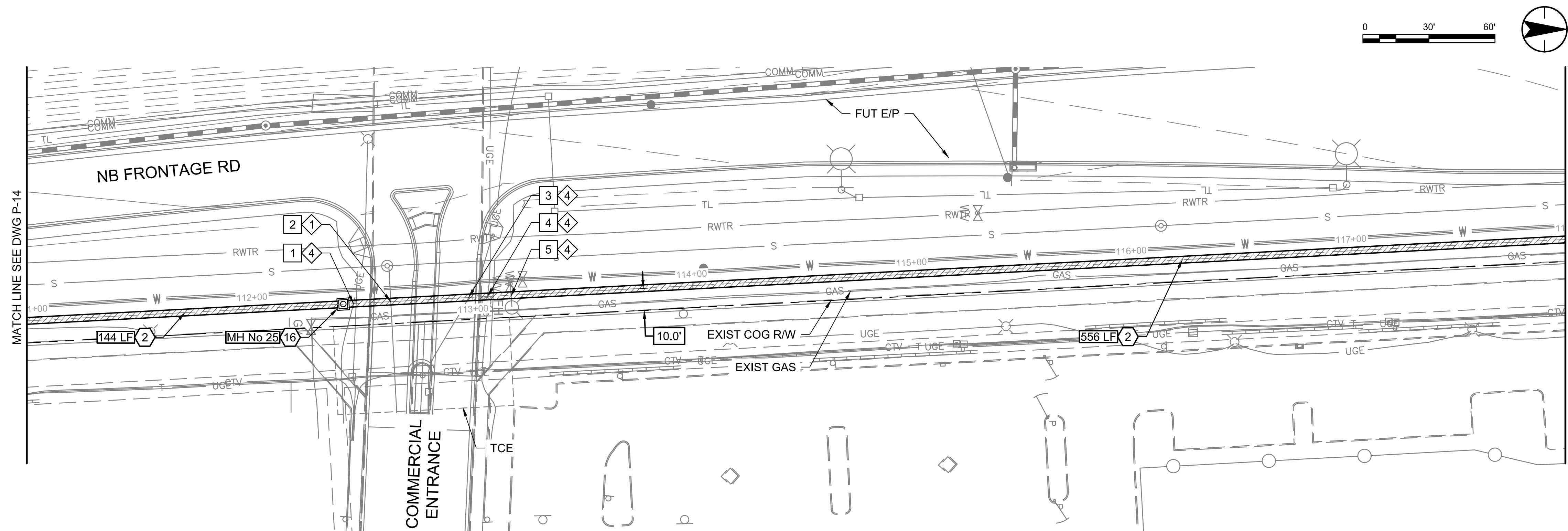
Expires 12/31/2028

Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
LATERAL 7WW REACH
PLAN & PROFILE

Project No. 181301643 Scale 1"=30' HOR 1"=4' VERT
Drawing No. P-14 Sheet 29 of 61 Revision 0

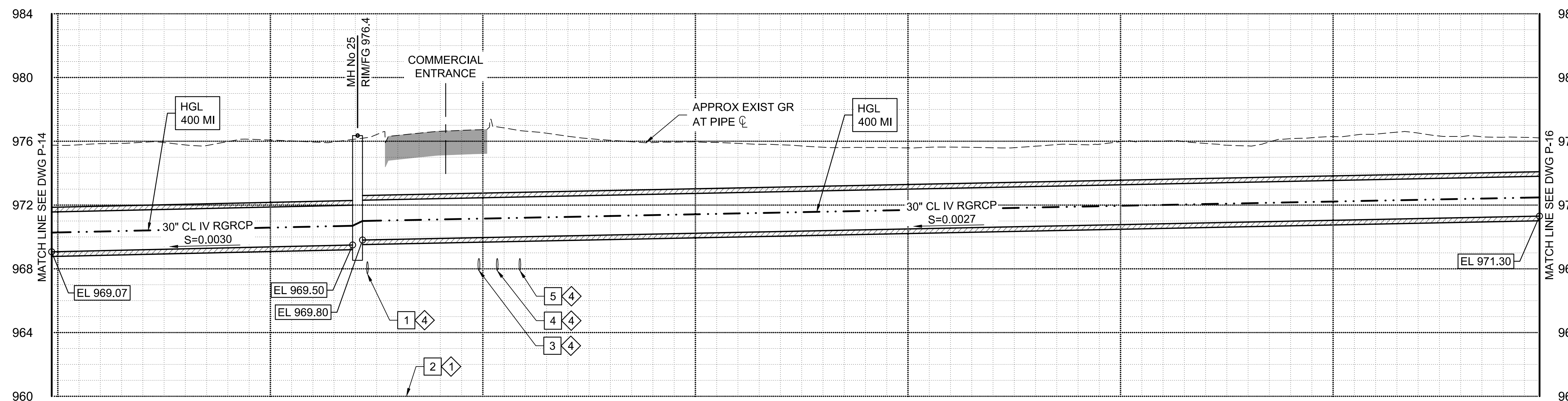
U:\181301643\Drawings\civil_lat-7\181301643.LAT7PP-2.dwg 2025/03/20 11:57 AM By: Harit, Bryan



MATCH LINE SEE DWG P-14

MATCH LINE SEE DWG P-16

KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POTHOLED	PROPOSED	MIN FOR CLEARANCE
1	UGE	888451.32 544667.19	NOT POTHOLED	-	1'-0"
2	S	888468.39 544666.27	SURVEY: 957.31	-	1'-0"
3	UGE	888503.68 544664.40	NOT POTHOLED	-	1'-0"
4	UGE	888512.28 544663.95	NOT POTHOLED	-	1'-0"
5	W	888522.94 544663.62	NOT POTHOLED	-	1'-0"



MATCH LINE SEE DWG P-14

MATCH LINE SEE DWG P-16



- CONSTRUCTION NOTES**
- 2 FURNISH AND INSTALL 30" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL. 700 LF
 - 16 CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT. 1 EA
- UTILITY NOTES**
- 1 EXISTING UTILITY. PROTECT IN PLACE. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.
 - 4 UNLOCATED EXISTING UNDERGROUND UTILITY. CONTRACTOR TO VERIFY SIZE AND DEPTH PRIOR TO CONSTRUCTION. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.

Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP-2.DWG
Dwn: HARUBH GGB CTS 03.20.26
Chkd: Dsgn: MM.DD.YY

Permit-Seal

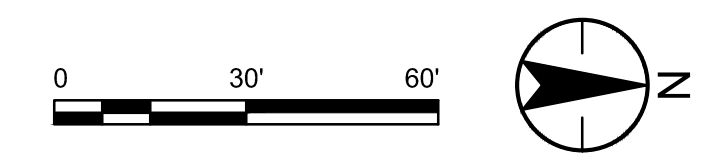
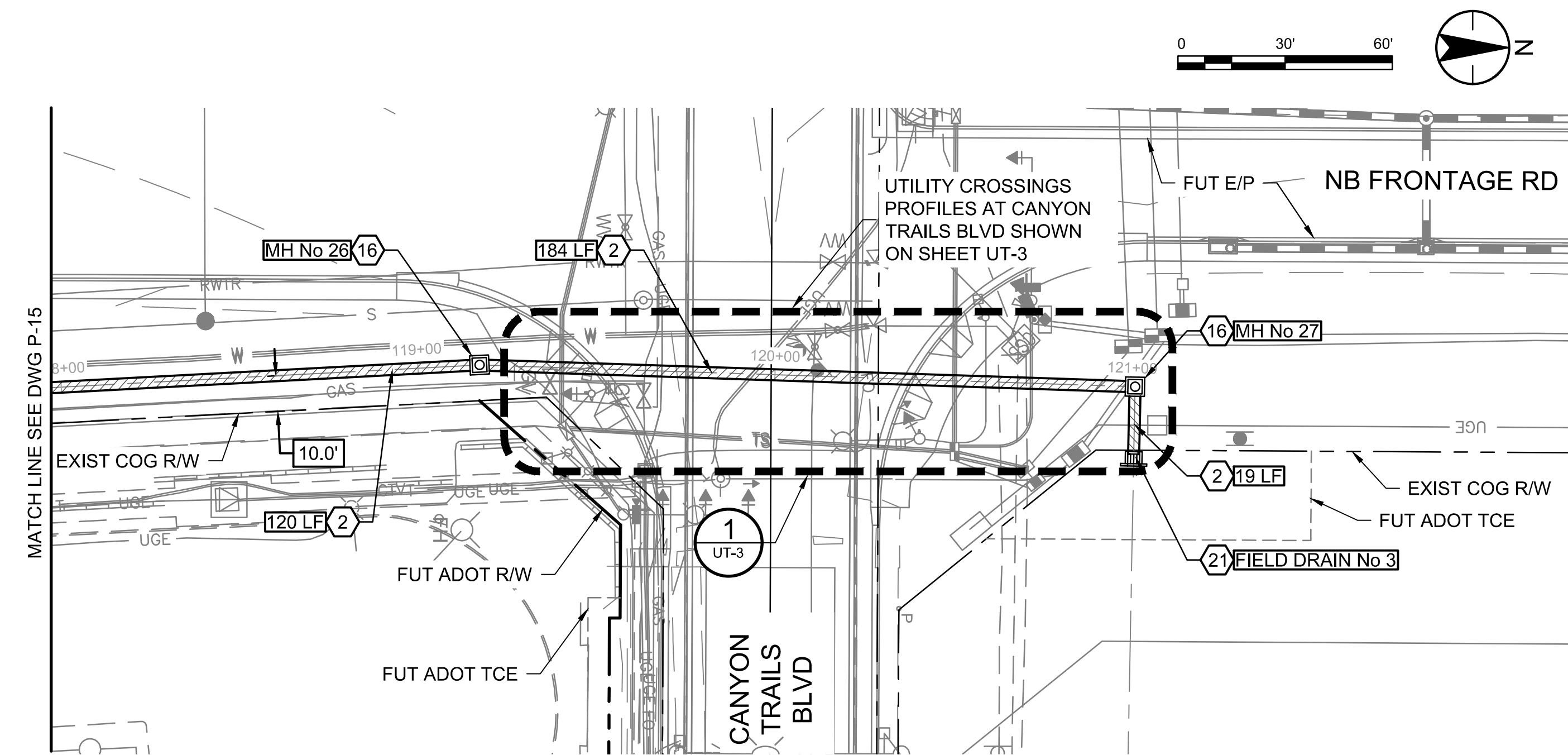
Expires 12/31/2028

Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

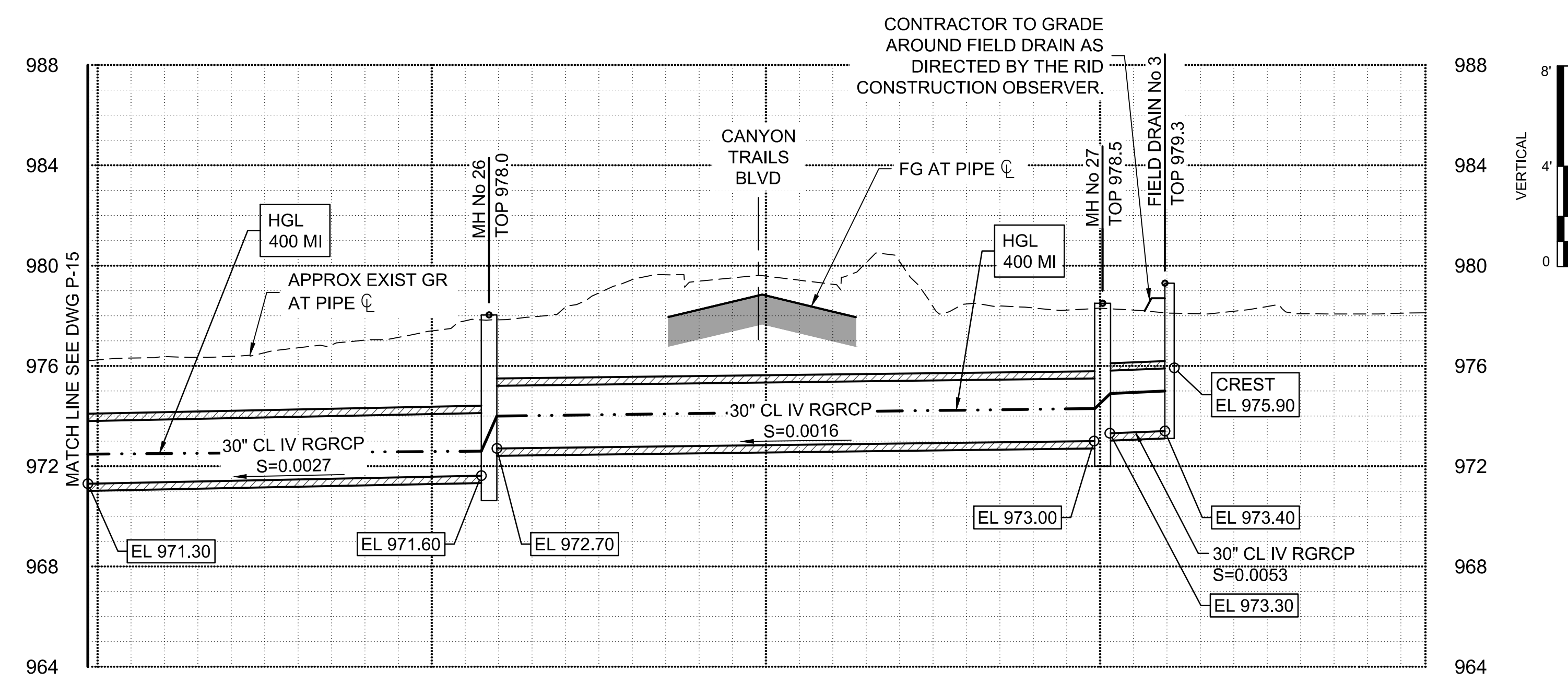
Title
LATERAL 7WW REACH
PLAN & PROFILE

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

U:\181301643\Drawings\civil_lat-7\181301643.LAT7PP-2.dwg 2025/03/20 11:57 AM By: Hnt. Bryan



CONSTRUCTION NOTES			
2	FURNISH AND INSTALL 30" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	323	LF
16	CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT.	2	EA
21	CONSTRUCT FIELD DRAIN HEADWALL SEE DWG S-5.	1	EA



Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP-2.DWG
Dwn: HARUBH Chkd: GGB Dsgn: CTS MM.DD.YY
03.20.26

Permit-Seal

Expires 12/31/2028

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

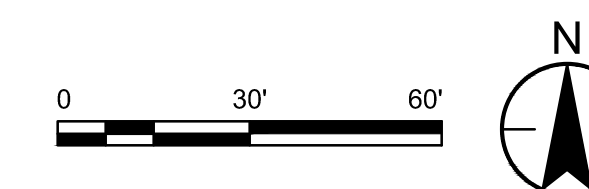
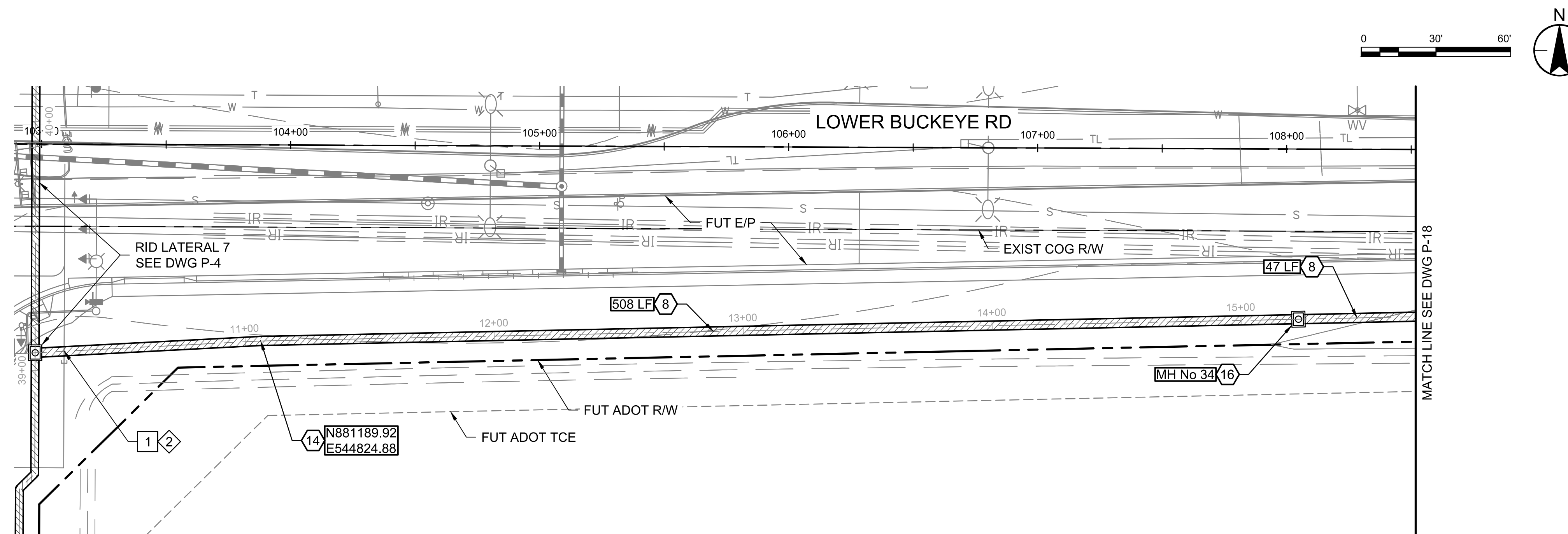
Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
LATERAL 7WW REACH
PLAN & PROFILE

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

P-16 31 of 61 0

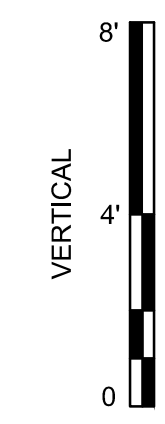
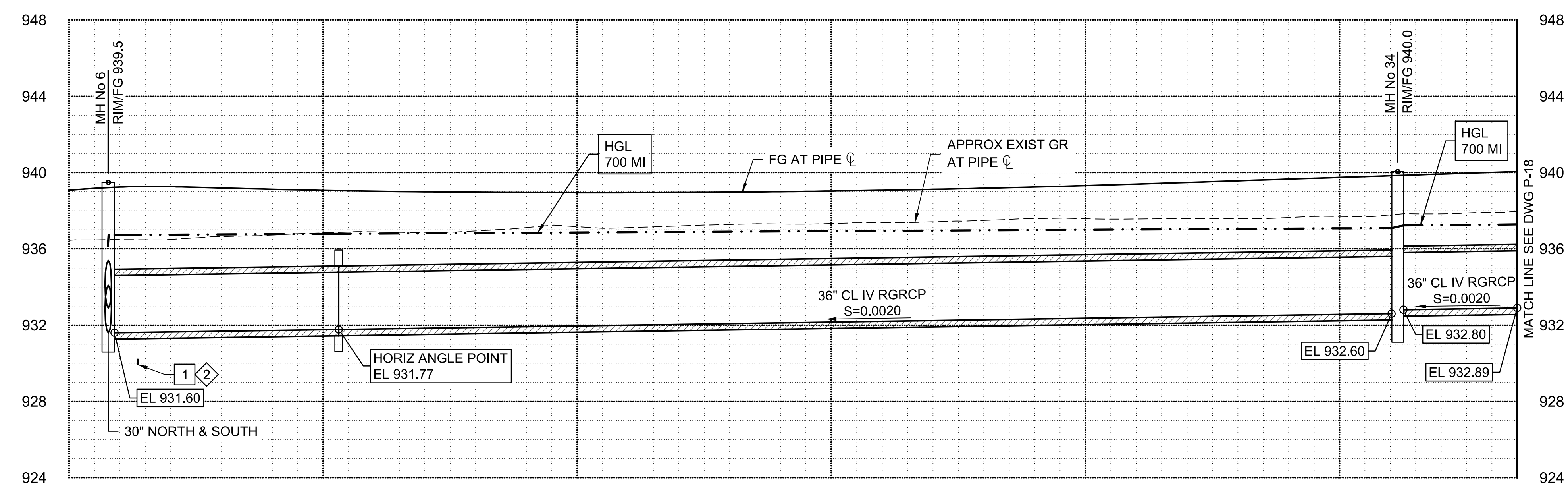
U:\181301643\Drawings\civil_lat-7\181301643.LAT7PP-2.dwg 2025/02/20 11:58 AM By: Hant, Bryan



CONSTRUCTION NOTES			
8	IV	FURNISH AND INSTALL 36" RGRCP CL SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	555 LF
14		CONSTRUCT PIPE COLLAR PER DETAIL 8, DWG D-1.	1 EA
16		CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT.	1 EA

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.	

UTILITY TABLE					
KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POTHOLE	PROPOSED	MIN FOR CLEARANCE
1	UGE	881185.78 544745.95	-	930.21	1'-0"



Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP-2.DWG
Dwn: HARUBH GGB CTS 03.20.26
Chkd: Dsgn: MM.DD.YY

Permit-Seal

Expires 12/31/2028

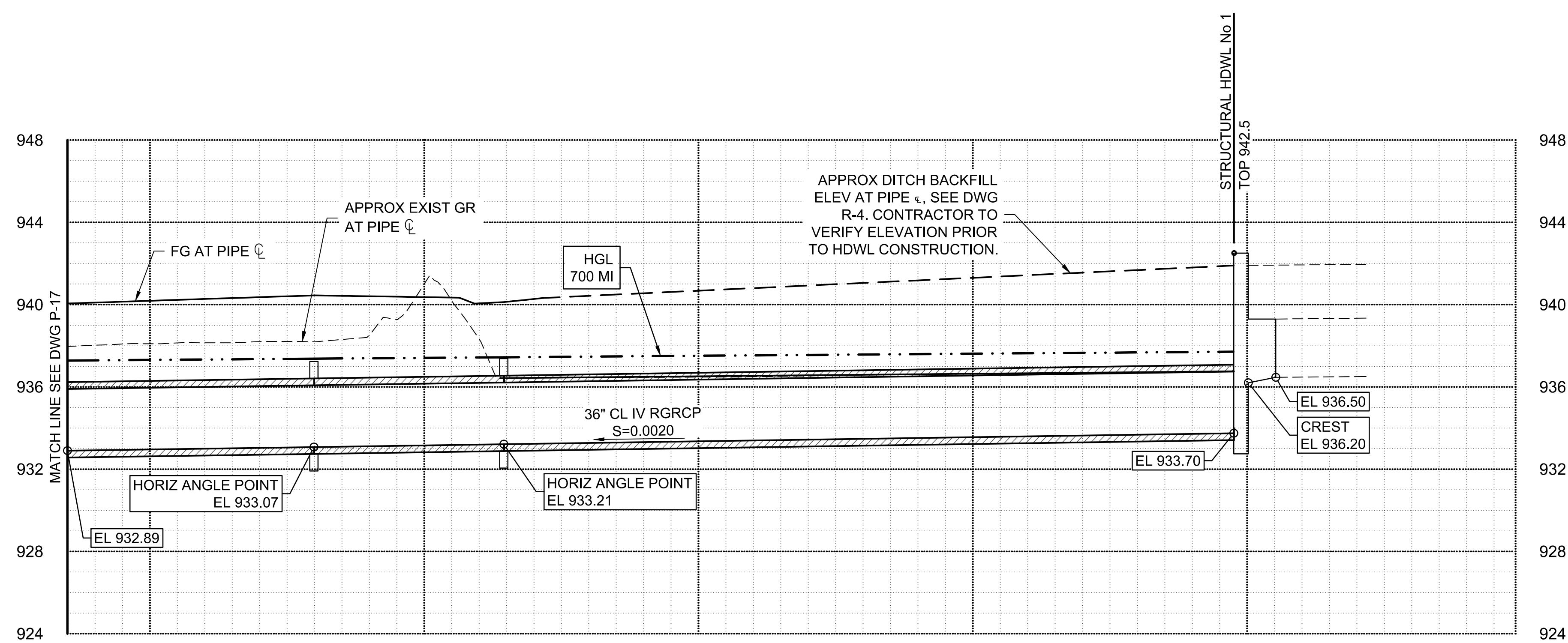
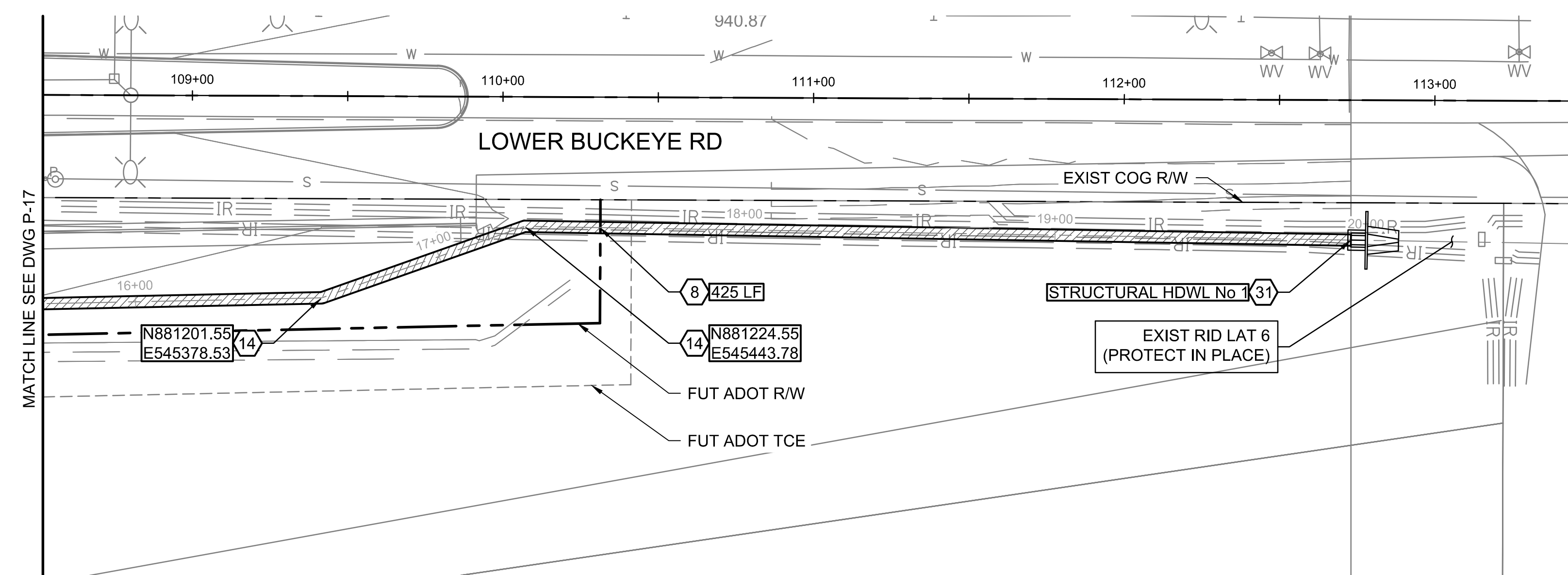
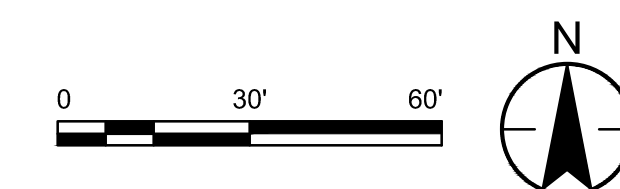
Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**

ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
**LATERAL 6
PLAN & PROFILE**

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

L:\181301643\Drawings\civil_lat-7\181301643.LAT7PP-2.dwg 2025/03/20 11:58 AM By: Harit, Bryan



CONSTRUCTION NOTES			
8	FURNISH AND INSTALL 36" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	425	LF
14	CONSTRUCT PIPE COLLAR PER DETAIL 8, DWG D-1.	2	EA
31	CONSTRUCT STRUCTURAL HEADWALL SEE DWG S-10.	1	EA

Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP-2.DWG
Dwn: HARUBH Chkd: GGB Dsgn: CTS
MM.DD.YY 03.20.26

Permit-Seal

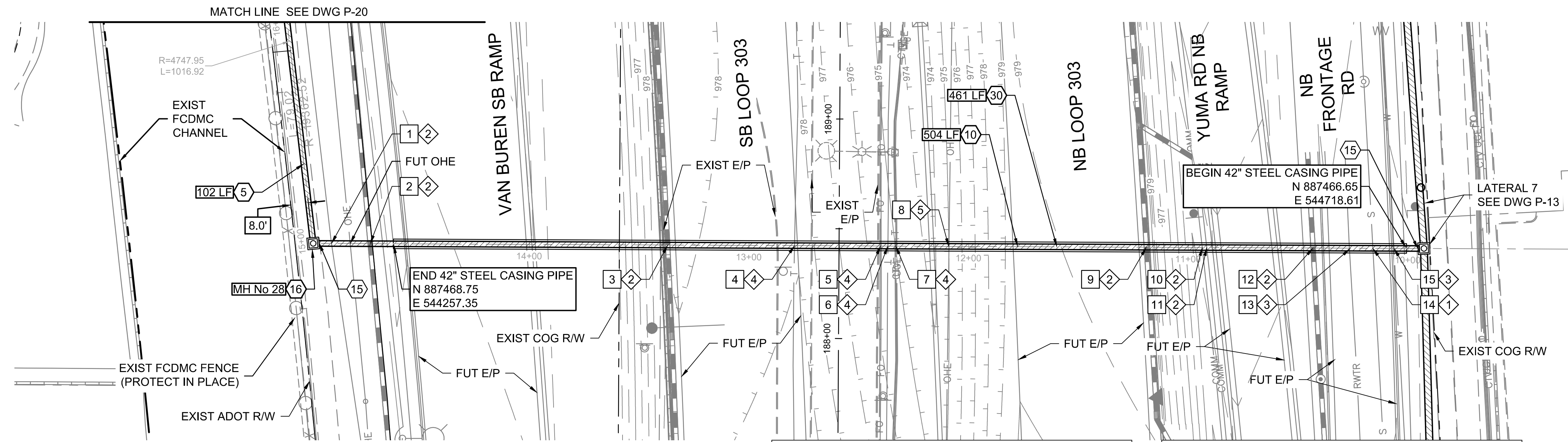
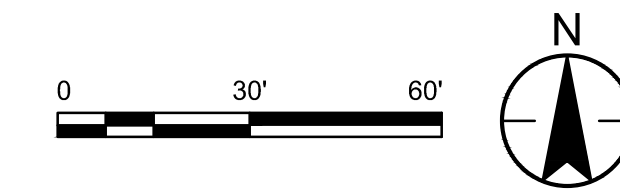
Expires 12/31/2028

Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
**LATERAL 6
PLAN & PROFILE**

Project No. 181301643 Scale 1"=30' HOR 1"=4' VERT
Drawing No. P-18 Sheet 33 of 61 Revision 0

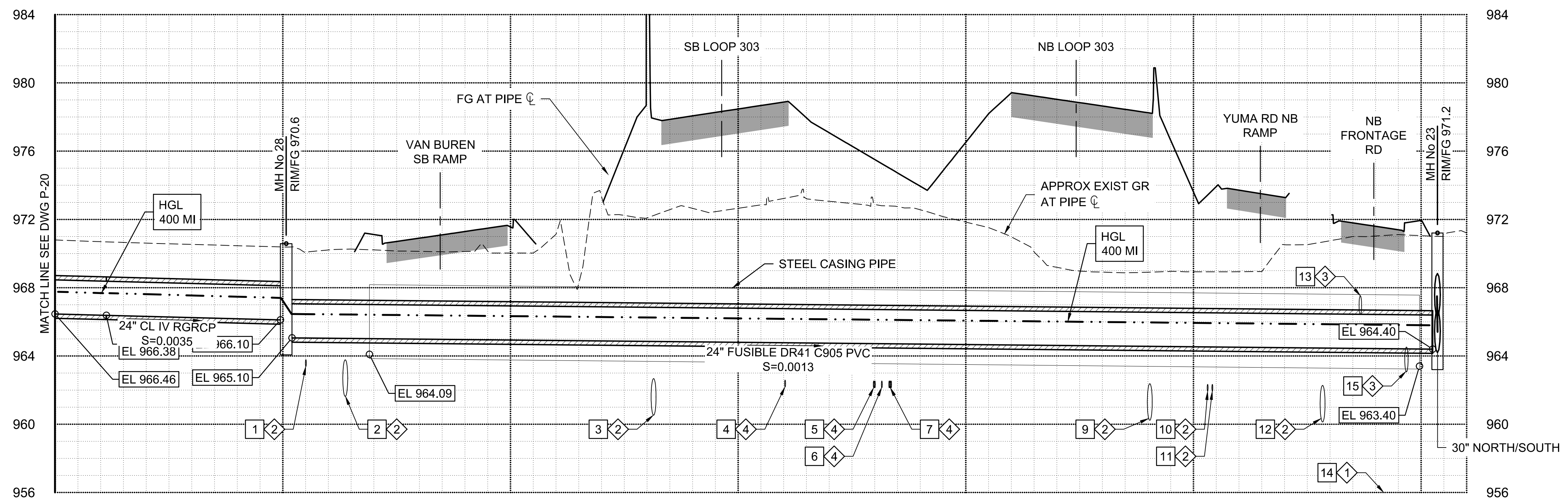
U:\181301643\Drawings\civil_lat-7\181301643.LAT7PP-2.dwg 2025/03/20 11:58 AM By: Harit, Bryan



UTILITY TABLE					
KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POT HOLE	PROPOSED	MIN FOR CLEARANCE
1	COMM	887468.87 544229.18	-	963.70	1'-0"
2	SD	887468.79 544246.77	-	963.70	1'-0"
3	SD	887468.18 544382.21	-	962.60	1'-0"
4	FO	887467.92 544439.99	NOT POTHOLED	-	1'-0"
5	FO (2)	887467.74 544479.16	NOT POTHOLED	-	1'-0"
6	TEL	887467.72 544482.47	NOT POTHOLED	-	1'-0"
7	FO, CTV, UGE (3)	887467.71 544486.13	NOT POTHOLED	-	1'-0"

UTILITY TABLE					
KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POT HOLE	PROPOSED	MIN FOR CLEARANCE
8	OHE	887467.49 544510.23	-	-	1'-0"
9	SD	887467.08 544600.10	962.30	-	1'-0"
10	COMM	887466.82 544625.61	962.30	-	1'-0"
11	COMM	887467.04 544627.65	962.30	-	1'-0"
12	SD	887466.84 544676.06	962.20	-	1'-0"
13	RECL	887466.77 544692.60	POT HOLE: 967.47	-	1'-0"
14	S	887466.72 544703.27	SURVEY: 953.87	-	1'-0"
15	W	887466.68 544712.98	POT HOLE: 964.42	-	1'-0"

- CONSTRUCTION NOTES**
- FURNISH AND INSTALL 24" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL. 102 LF
 - FURNISH AND INSTALL 24" FUSIBLE DR41 C905 PVC PIPE SEE DWG D-2 FOR JACK AND BORE NOTES AND DETAILS. 504 LF
 - CONSTRUCT PIPE CONTAINMENT COLLAR PER DETAIL 2, DWG D-2. 2 EA
 - CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT. 1 EA
 - FURNISH AND INSTALL 42" WELDED STEEL CASING PIPE SCH 40 SEE DWG D-2 FOR JACK AND BORE NOTES AND DETAILS. 461 LF
- UTILITY NOTES**
- EXISTING UTILITY, PROTECT IN PLACE. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-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.
 - EXISTING UTILITY IN CONFLICT WITH PROPOSED RID FACILITIES. REFER TO UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.
 - UNLOCATED EXISTING UNDERGROUND UTILITY. CONTRACTOR TO VERIFY SIZE AND DEPTH PRIOR TO CONSTRUCTION. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.
 - CAUTION! OVERHEAD ELECTRIC LINES, PROTECT IN PLACE.



Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7WPP.DWG HARUBH GGB CTS 03.20.26
Dwn Chkd Dsgn MM.DD.YY

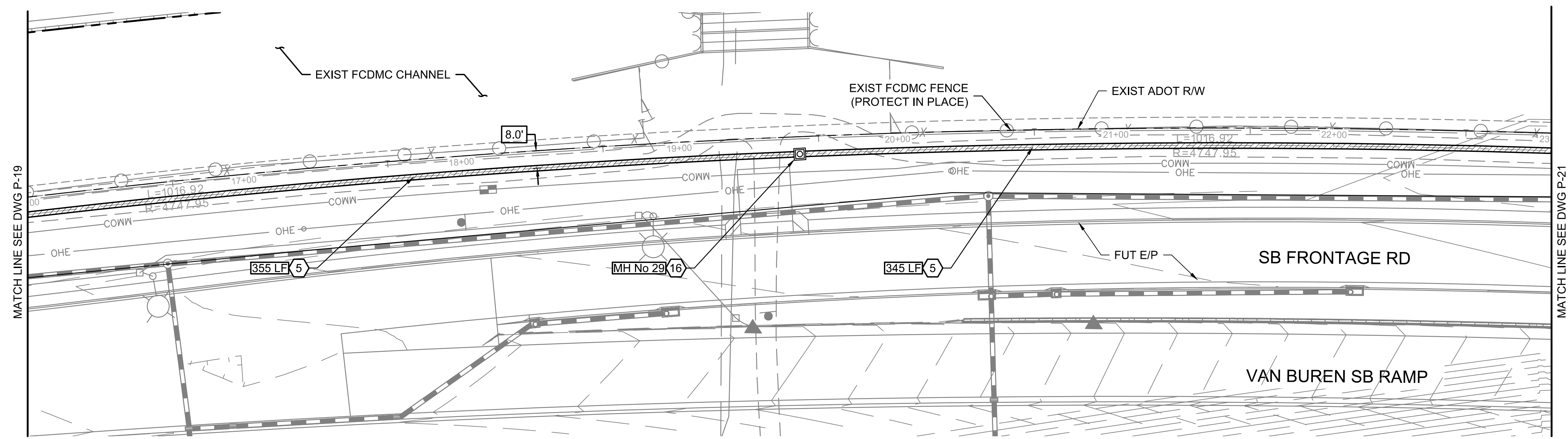
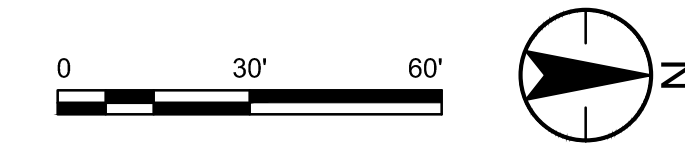
Permit Seal
70263 CAMERON T. SMITH
Expires 12/31/2028
Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

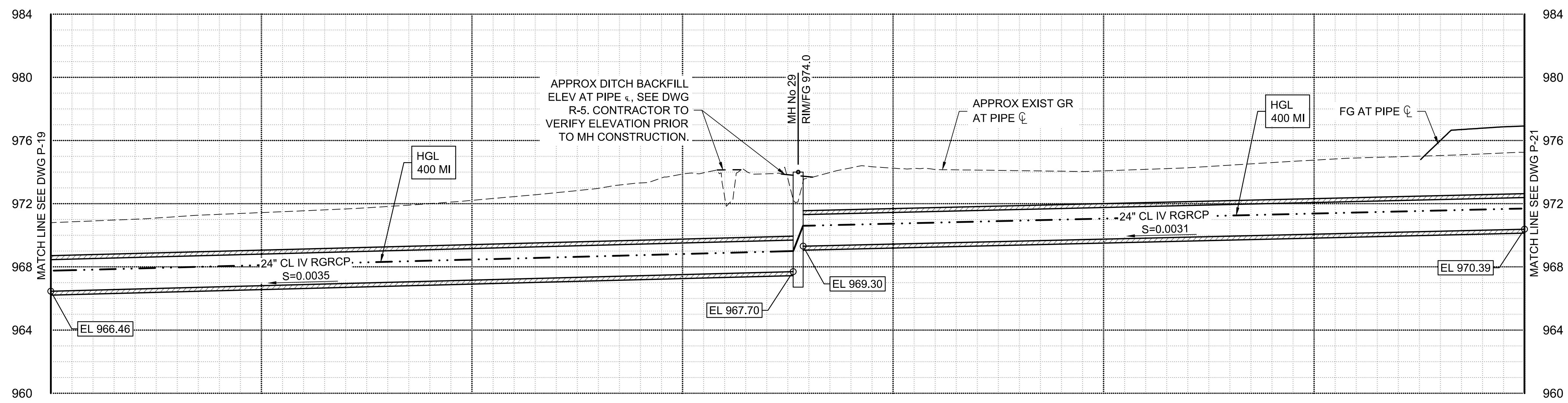
Title
LATERAL 7WW
PLAN & PROFILE

Project No. 181301643 Scale 1"=30' HOR 1"=4' VERT
Drawing No. Sheet 34 of 61 Revision 0

U:\181301643\Drawings\civil_lat-7\181301643.LAT7WPP.dwg 2026/03/20 11:59 AM By: Matt Bryan



CONSTRUCTION NOTES			
5	FURNISH AND INSTALL 24" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	700	LF
16	CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT.	1	EA



Stantec
Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.6100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7WVPP.DWG HARUBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

Expires 12/31/2028

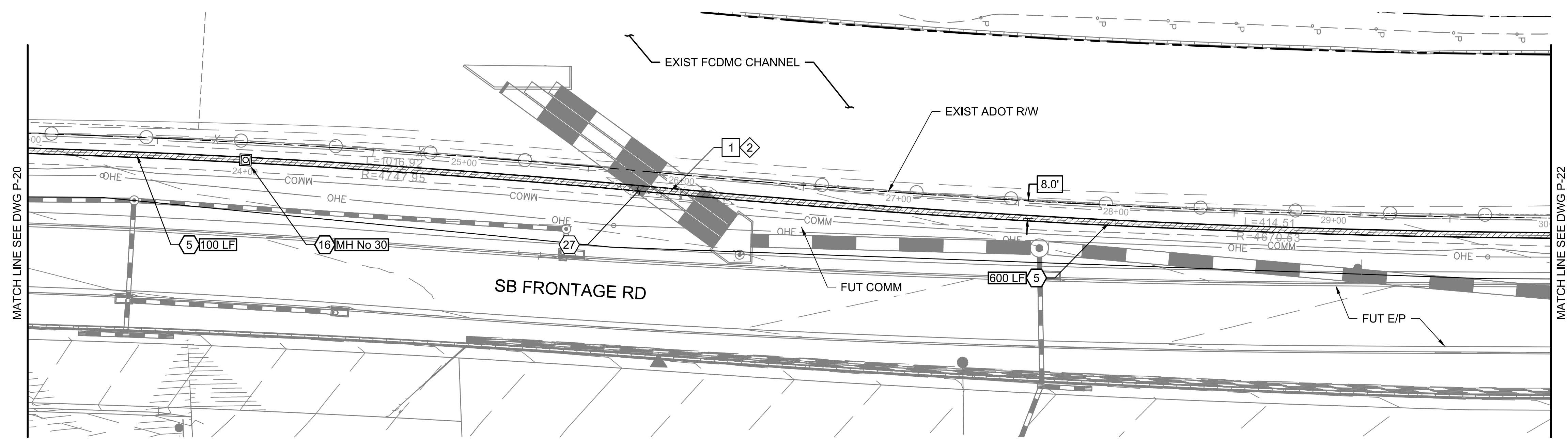
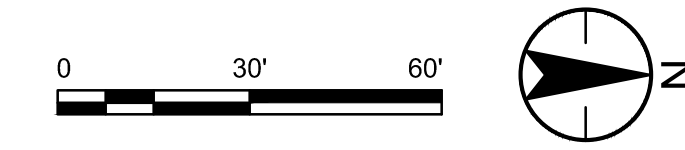
Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
**LATERAL 7WW
PLAN & PROFILE**

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

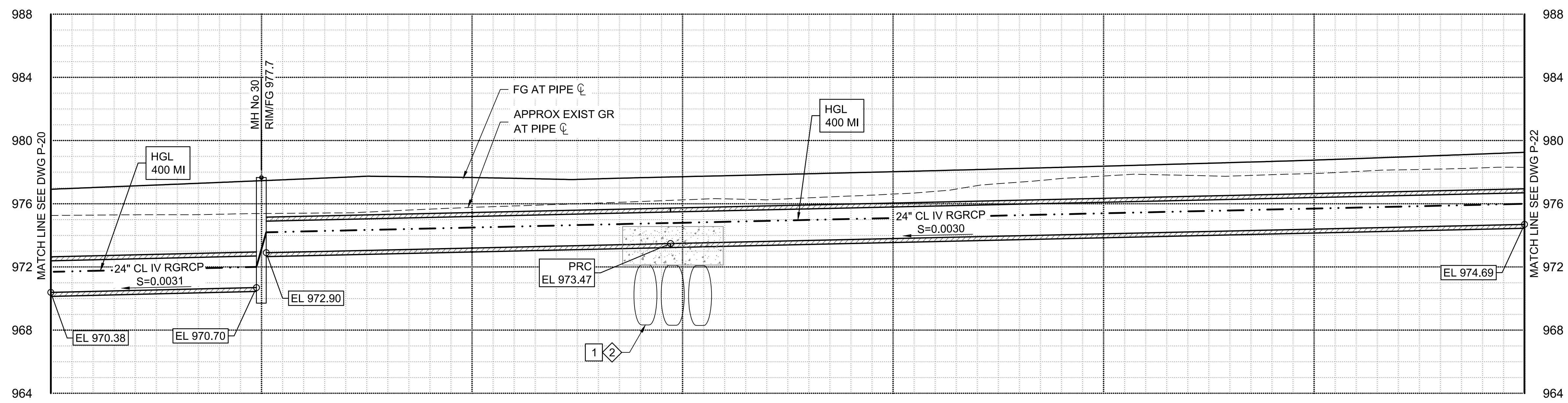
P-20 35 of 61 0

U:\181301643\Drawings\civil_lat-7\181301643.LAT7WVPP.dwg 2026/03/20 11:59 AM By: Matt Bryan



CONSTRUCTION NOTES			
5	FURNISH AND INSTALL 24" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	700	LF
16	CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT.	1	EA
27	SLURRY BACKFILL REQUIRED IN PIPE CROSSINGS WHERE 1-FT CLEARANCE IS NOT ACHIEVABLE. CENTERED ON CROSSING PIPE.	48	LF
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.		

UTILITY TABLE					
KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POT HOLE	PROPOSED	MIN FOR CLEARANCE
1	SD (3)	888563.33 544198.23	-	ADOT DWGS 968.53	1'-0"



Stantec
Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.6100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.
File Name: 181301643.LAT7WVWP.DWG HARUBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

Expires 12/31/2028

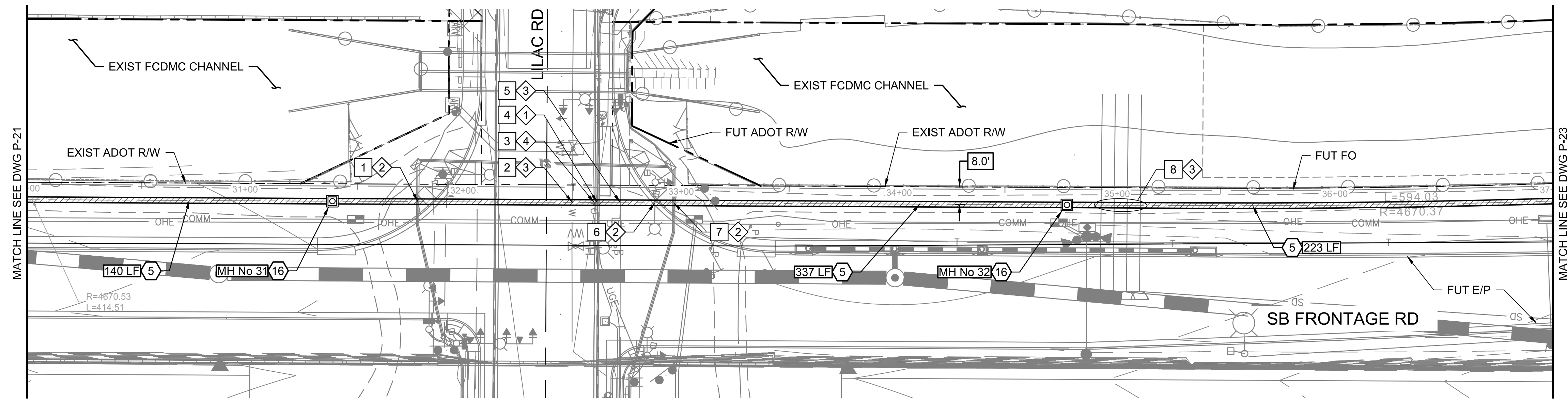
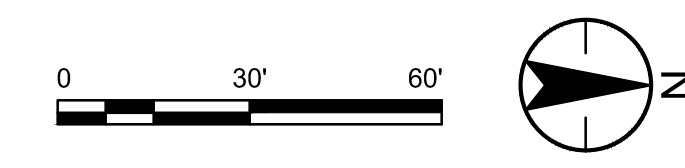
Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
**LATERAL 7WW
PLAN & PROFILE**

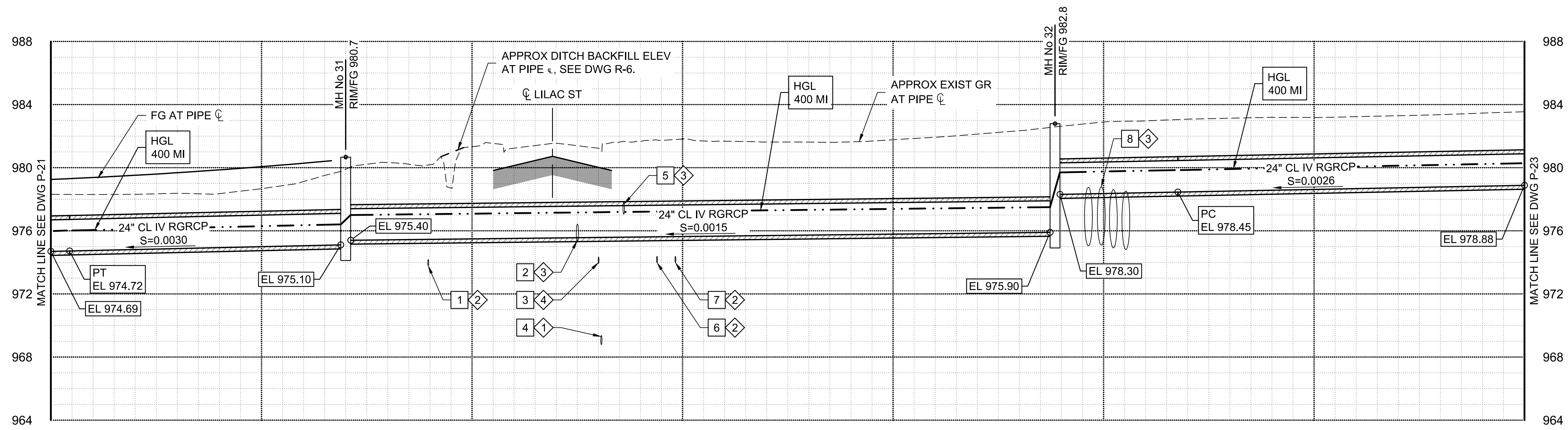
Project No. 181301643 Scale 1"=30' HOR 1"=4' VERT
Drawing No. Sheet 36 of 61 Revision 0

U:\181301643\Drawings\civil_lat-7\181301643.LAT7WVWP.dwg 2026/03/20 11:59 AM By: Matt Bryan



CONSTRUCTION NOTES			
5	FURNISH AND INSTALL 24" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	700	LF
16	CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT.	2	EA
UTILITY NOTES			
1	EXISTING UTILITY. PROTECT IN PLACE. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.		
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.		
3	EXISTING UTILITY IN CONFLICT WITH PROPOSED RID FACILITIES. REFER TO UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.		
4	UNLOCATED EXISTING UNDERGROUND UTILITY. CONTRACTOR TO VERIFY SIZE AND DEPTH PRIOR TO CONSTRUCTION. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.		

KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POTHOLE	PROPOSED	MIN FOR CLEARANCE
1	TS	889146.49 544219.48	-	974.15	1'-0"
2	W	889217.63 544229.68	POTHOLE: 976.37	-	1'-0"
3	FO	889227.40 544229.61	POTHOLE: NOT FOUND	-	1'-0"
4	UGE	889228.90 544229.45	POTHOLE: 969.33	-	1'-0"
5	TEL	889239.10 544221.21	POTHOLE: 977.76	-	1'-0"
6	TS	889255.21 544220.03	-	974.35	1'-0"
7	TS	889263.95 544220.08	-	974.35	1'-0"
8	SD (4)	889469.26 544221.07	SURVEY: 978.80	-	1'-0"



Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7MWP.dwg
Dwn: HARUBH
Chkd: GGB
Dsgn: CTS
MM.DD.YY: 03.20.26

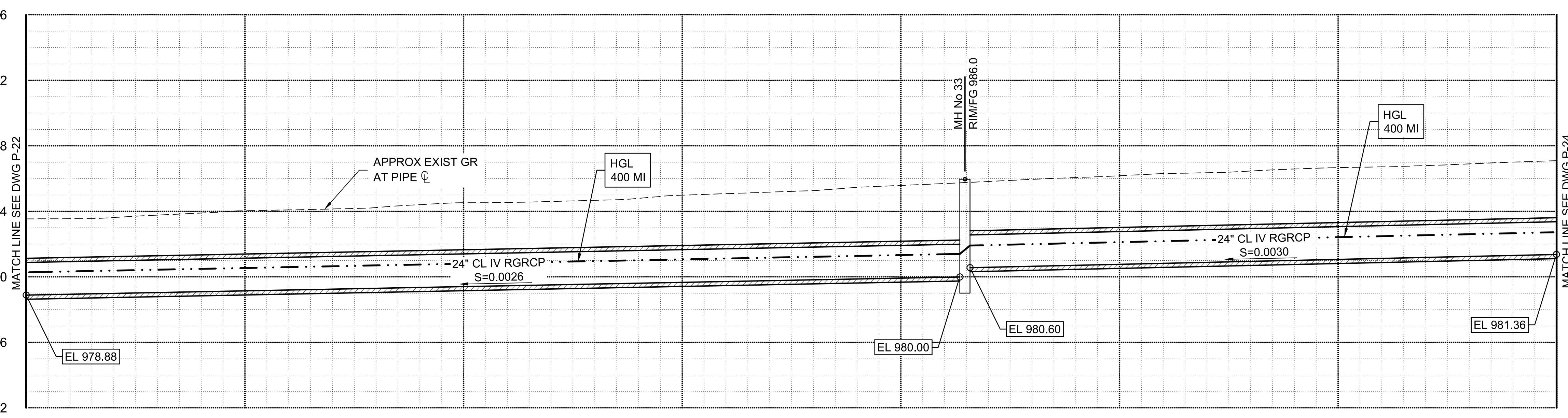
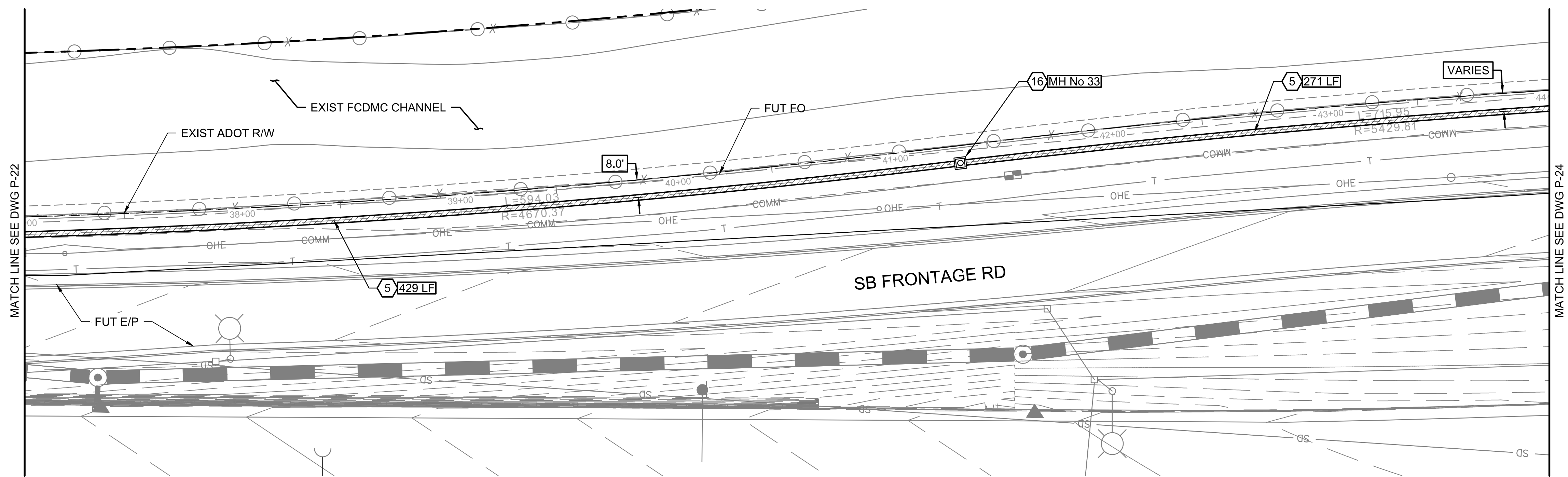
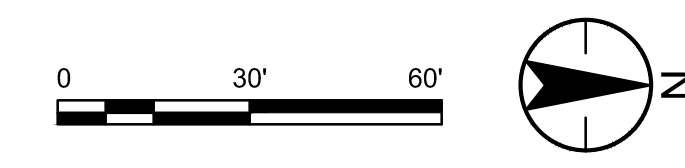
Permit-Seal
70263 CAMERON T SMITH
Expires 12/31/2028
Contact Arizona 811 at least two full working days before you begin excavation
Call 811 or click Arizona811.com

Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
LATERAL 7WW
PLAN & PROFILE

Project No. 181301643
Scale 1"=30' HOR 1"=4' VERT
Drawing No. Sheet 37 of 61
Revision 0

U:\181301643\Drawings\civil_lat-7\181301643.LAT7MWP.dwg 2026/03/20 11:59 AM By: Matt Bryan



CONSTRUCTION NOTES			
5	FURNISH AND INSTALL 24" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	700	LF
16	CONSTRUCT STANDARD MANHOLE SEE DWGS S-2 & S-3, DIM C UNDER 10-FT.	1	EA

Stantec
 Copyright Reserved
 The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
 The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7WVWP.DWG
 HARUBH GGB CTS 03.20.26
 Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

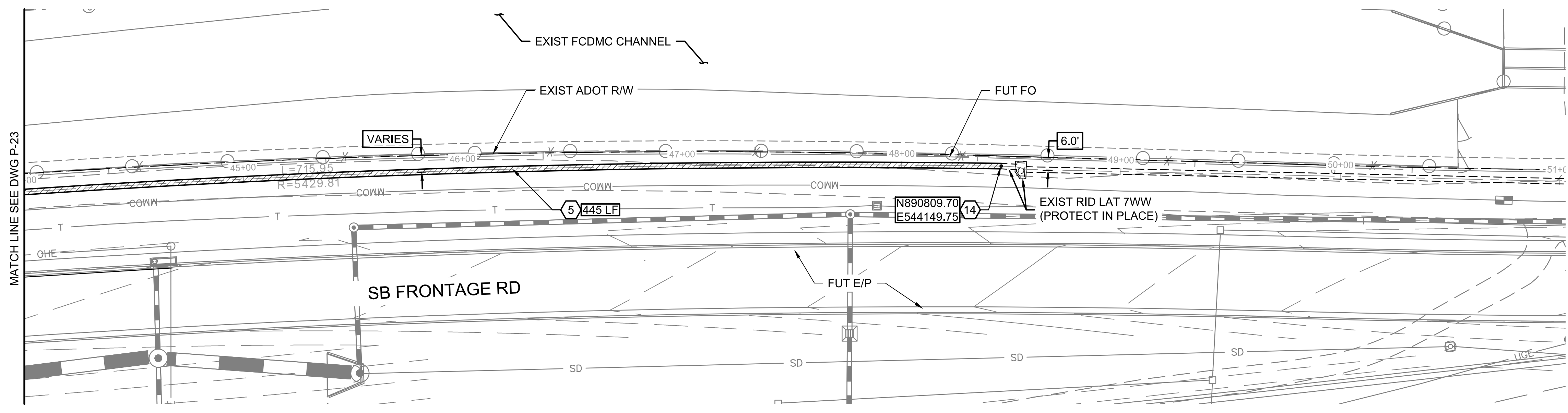
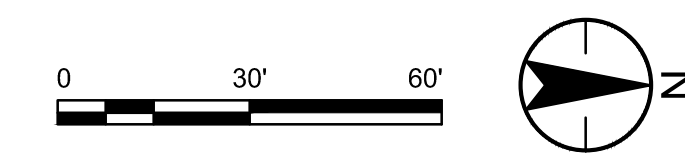
Expires 12/31/2028

Client/Project
 ROOSEVELT IRRIGATION DISTRICT
 LATERALS 6, 7 & 7WW
 ADOT LOOP 303
 PACKAGE 1
 Goodyear, Arizona

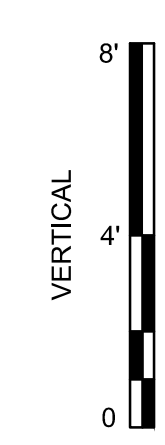
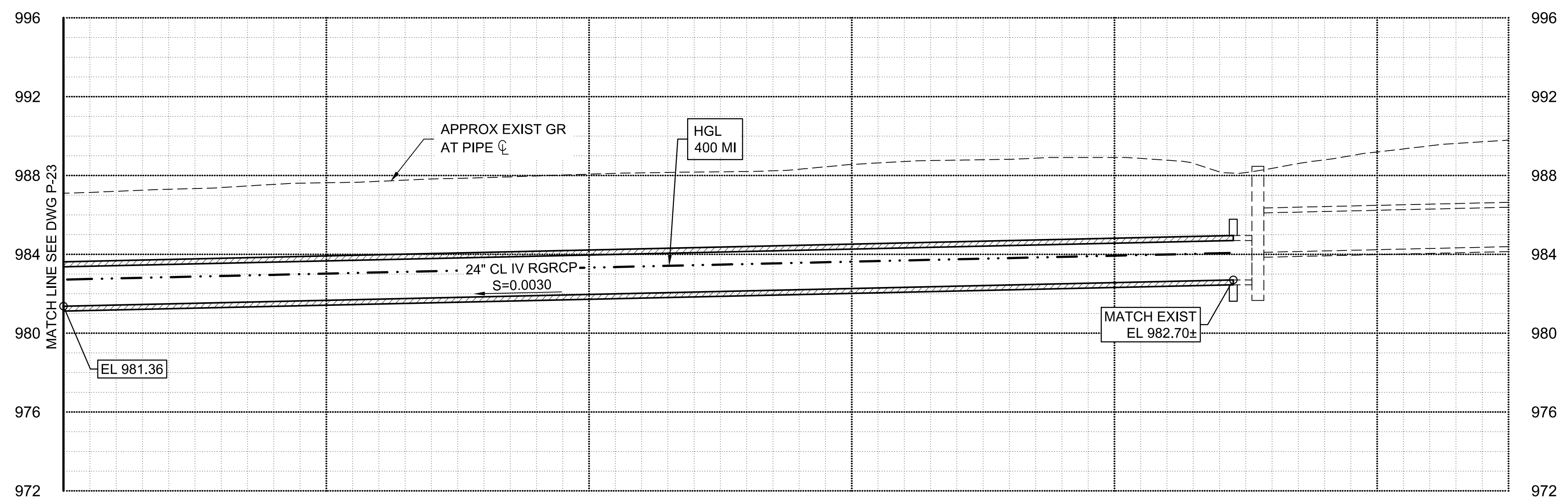
Title
 LATERAL 7WW
 PLAN & PROFILE

Project No. 181301643 Scale 1"=30' HOR 1"=4' VERT
 Drawing No. Sheet 38 of 61 Revision 0

U:\181301643\Drawings\civil\lat-7\181301643.LAT7WVWP.dwg 2026/03/20 11:59 AM By: Matt Bryan



CONSTRUCTION NOTES			
5	FURNISH AND INSTALL 24" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	445	LF
14	CONSTRUCT PIPE COLLAR PER DETAIL 8, DWG D-1.	1	EA



Stantec
 Copyright Reserved
 The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
 The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name:	181301643.LAT7WWPP.DWG	HARUBH	GGB	CTS	03.20.26
Dwn.	Chkd.	Dsgn.	MM.DD.YY		

Permit-Seal

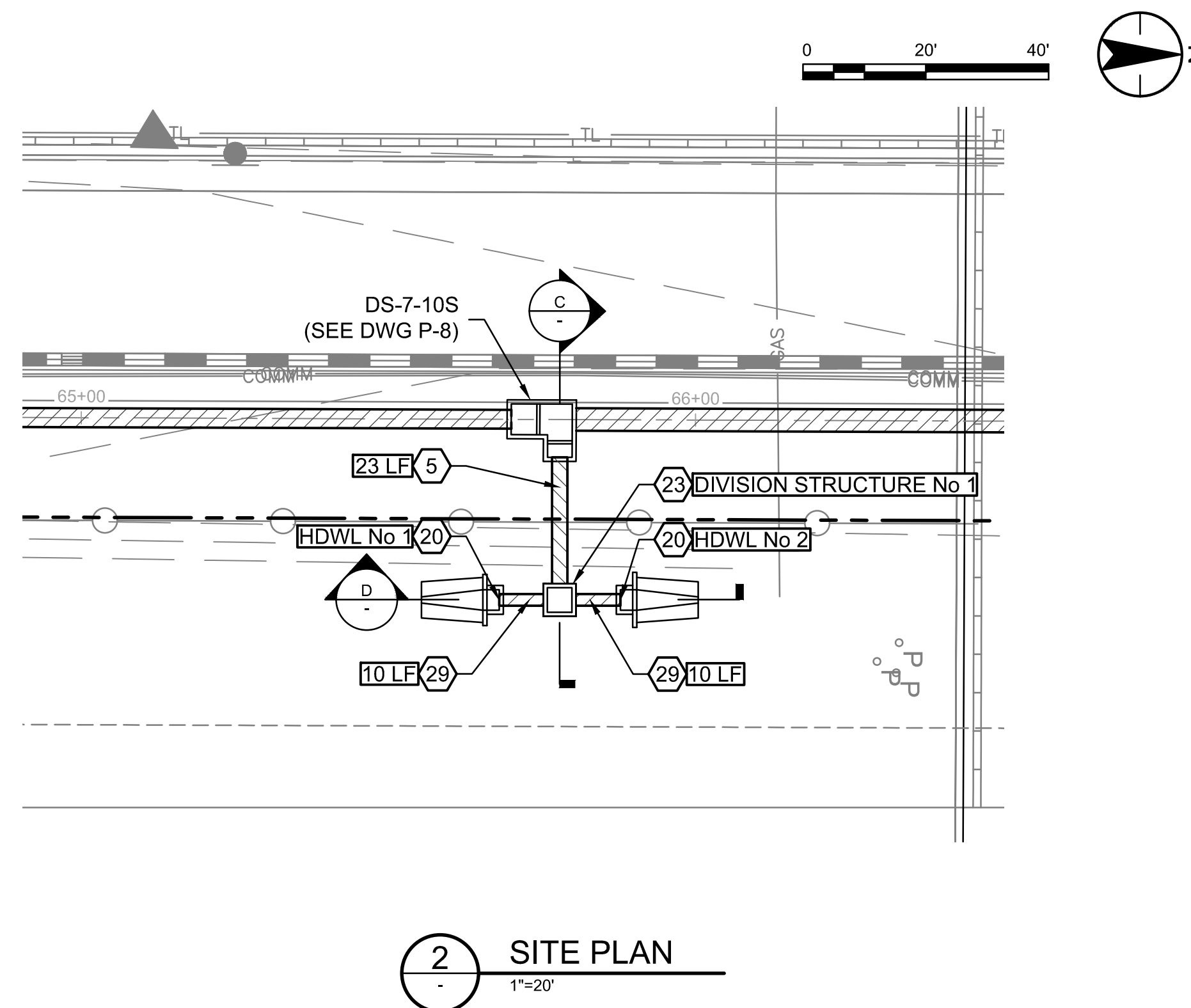
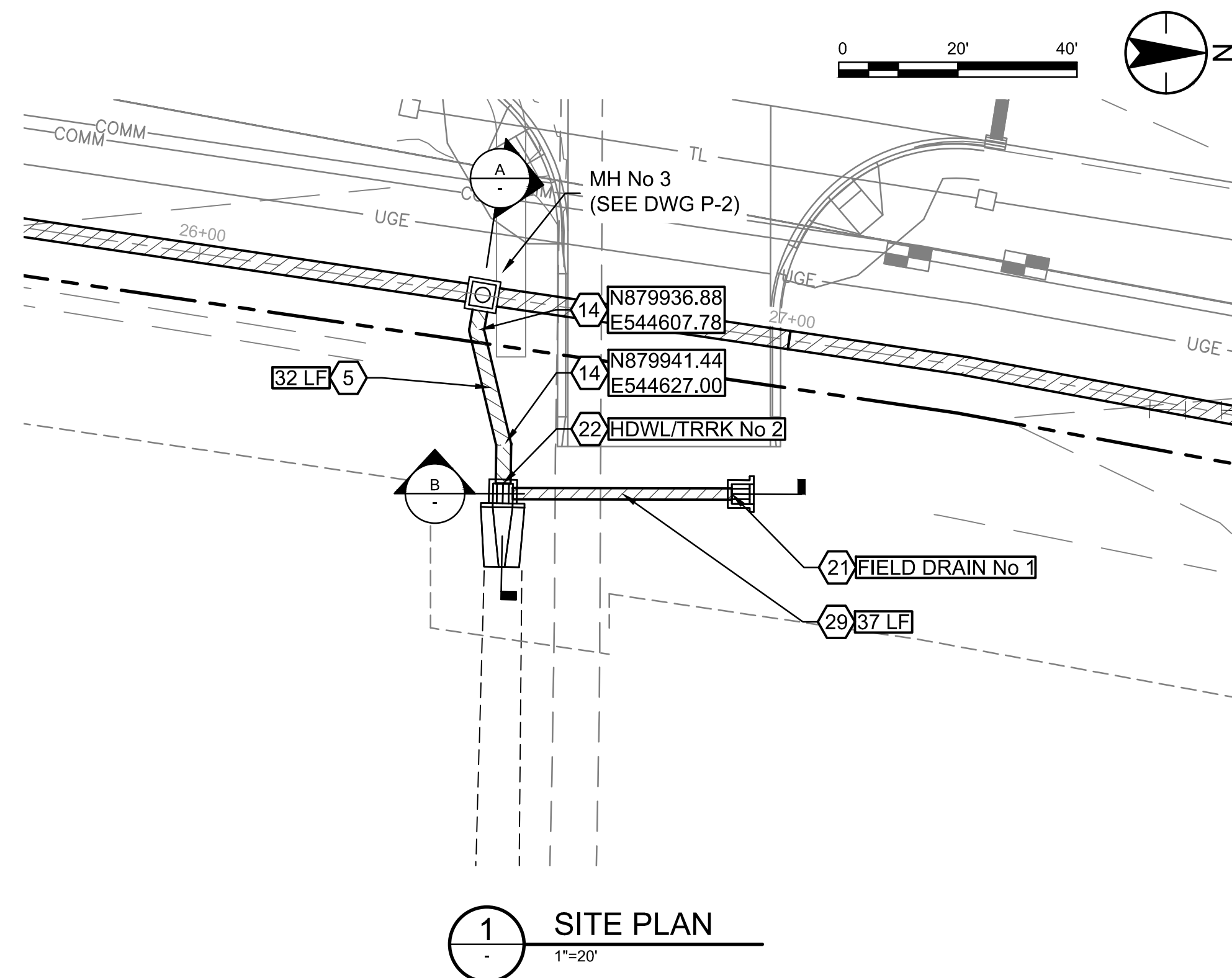
Expires 12/31/2028

Client/Project
**ROOSEVELT IRRIGATION DISTRICT
 LATERALS 6, 7 & 7WW**
 ADOT LOOP 303
 PACKAGE 1
 Goodyear, Arizona

Title
**LATERAL 7WW
 PLAN & PROFILE**

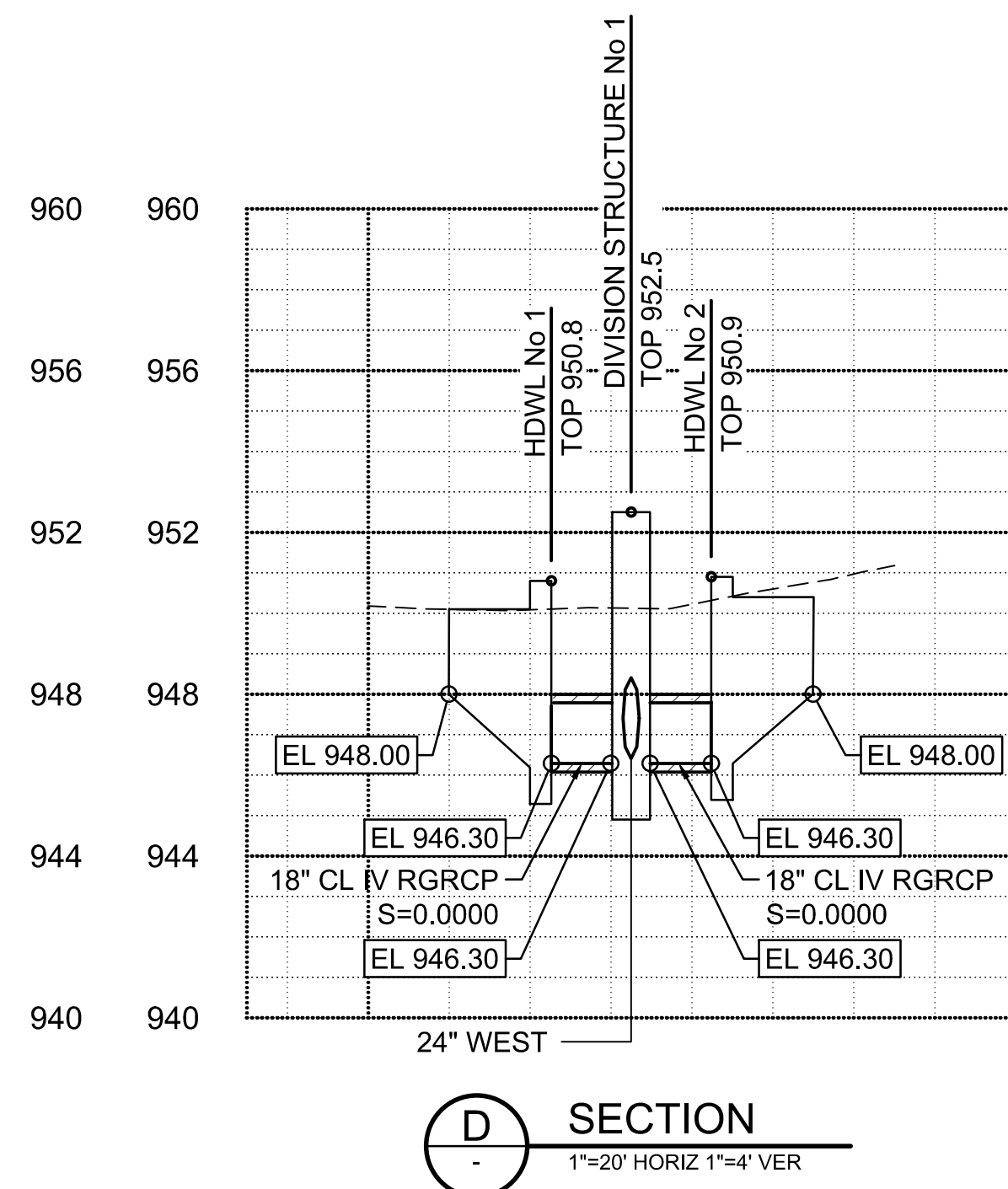
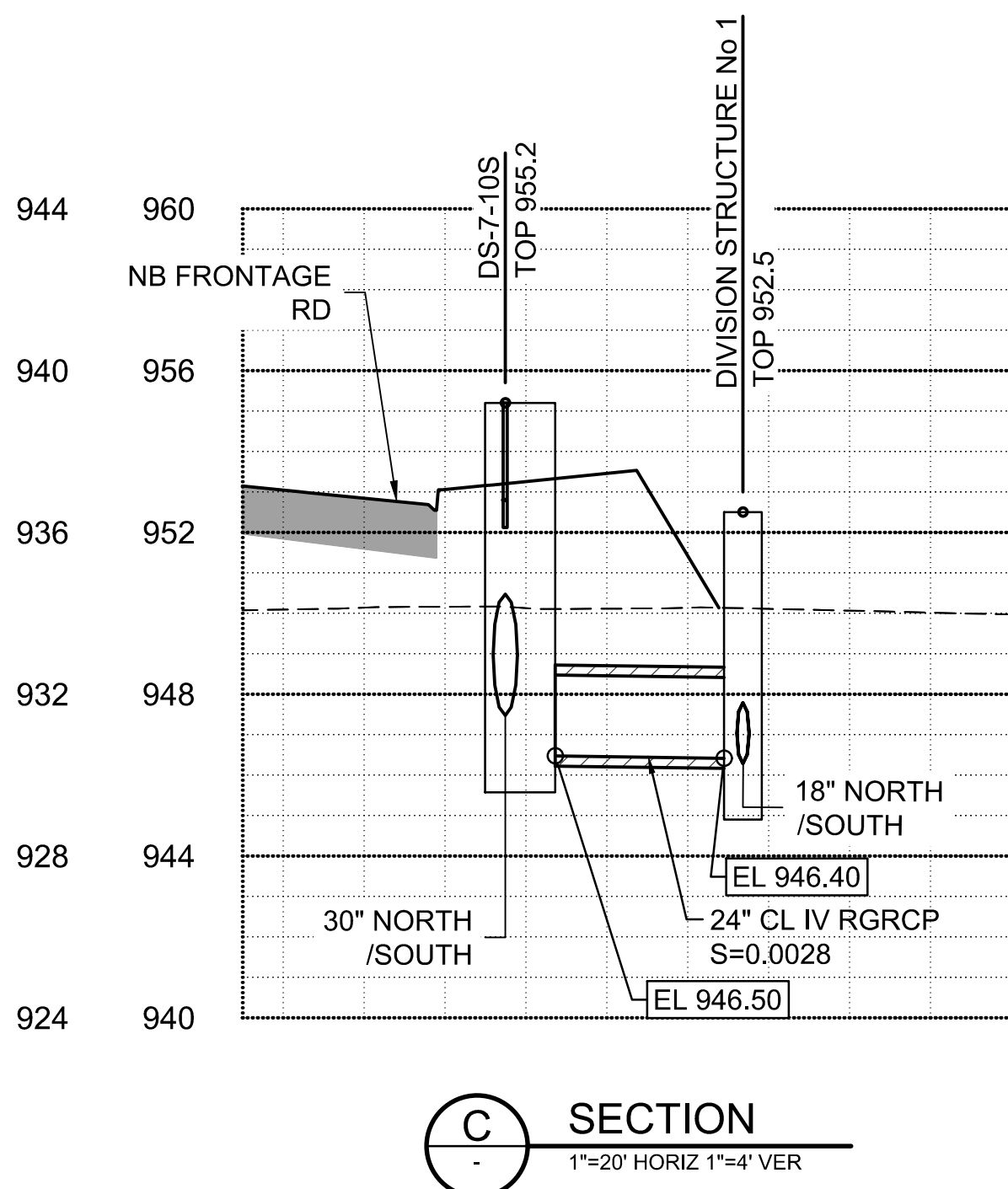
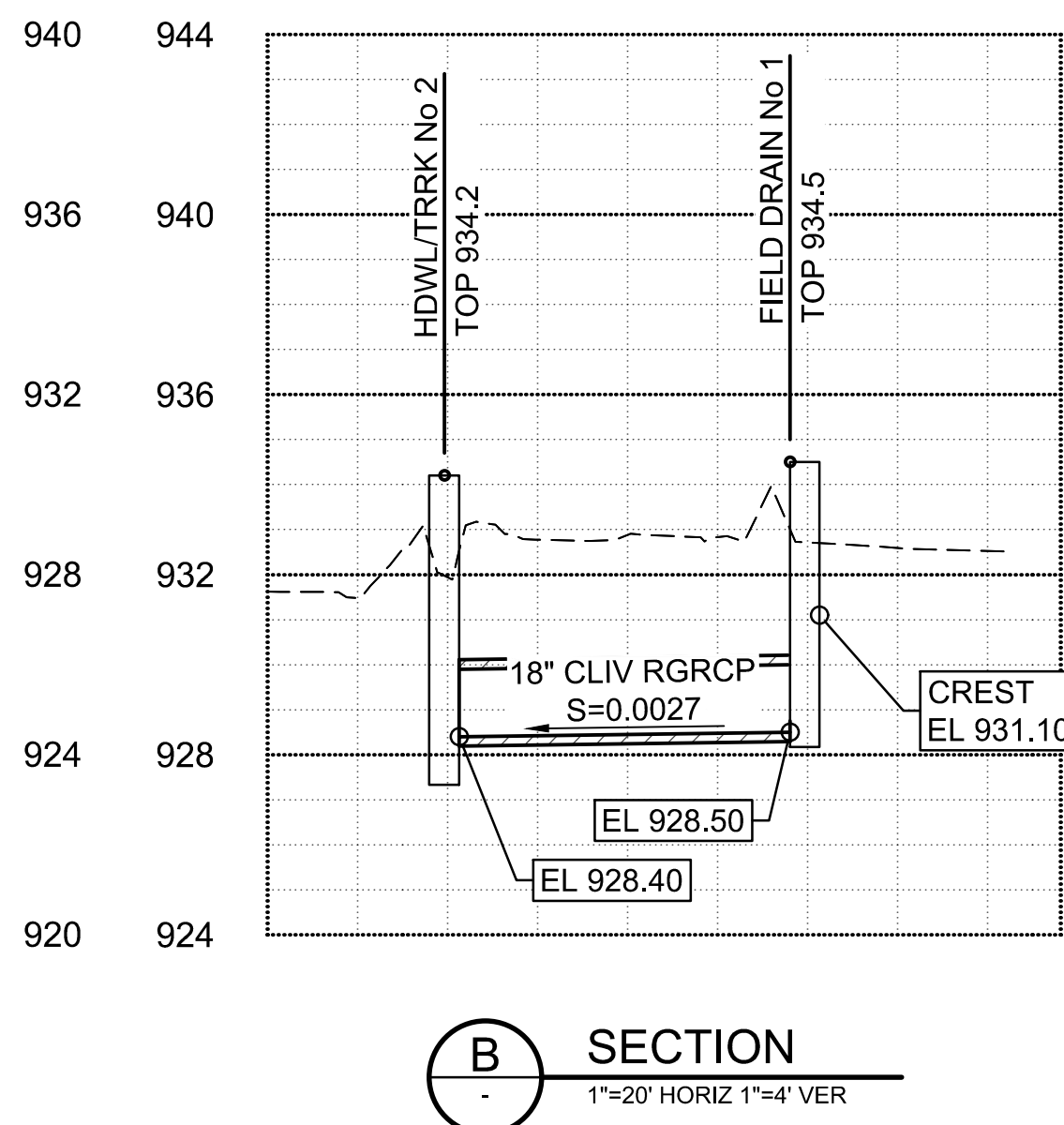
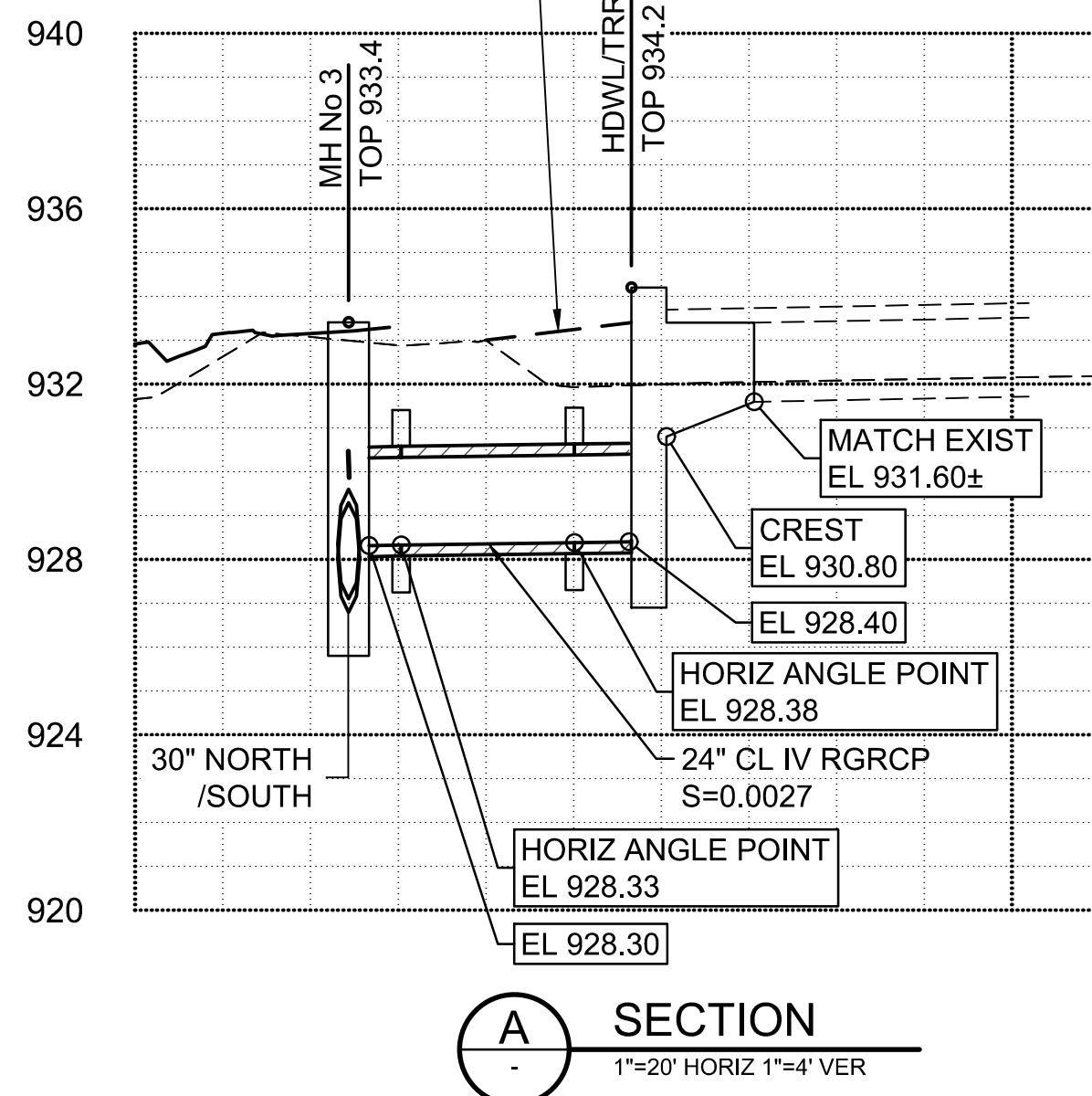
Project No.	181301643	Scale	1"=30' HOR 1"=4' VERT
Drawing No.	P-24	Sheet	39 of 61
Revision	0		

U:\181301643\Drawings\civil_lat-7\181301643.LAT7WWPP.dwg 2026/03/20 12:00 PM By: Mark Bryan



CONSTRUCTION NOTES			
5	FURNISH AND INSTALL 24" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	55	LF
14	CONSTRUCT PIPE COLLAR PER DETAIL 8, DWG D-1.	2	EA
20	CONSTRUCT OUTLET HEADWALL SEE DWG S-9.	2	EA
21	CONSTRUCT FIELD DRAIN HEADWALL SEE DWG S-5.	1	EA
22	CONSTRUCT INLET HEADWALL/TRASHRACK SEE DWG S-6.	1	EA
23	CONSTRUCT FLOW DIVISION STRUCTURE SEE DWG S-7.	1	EA
29	FURNISH AND INSTALL 18" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	57	LF

APPROX DITCH BACKFILL ELEV AT PIPE c, SEE DWG R-1. CONTRACTOR TO VERIFY ELEVATION PRIOR TO HDWL CONSTRUCTION.



Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.6100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP-2.DWG HARUBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

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

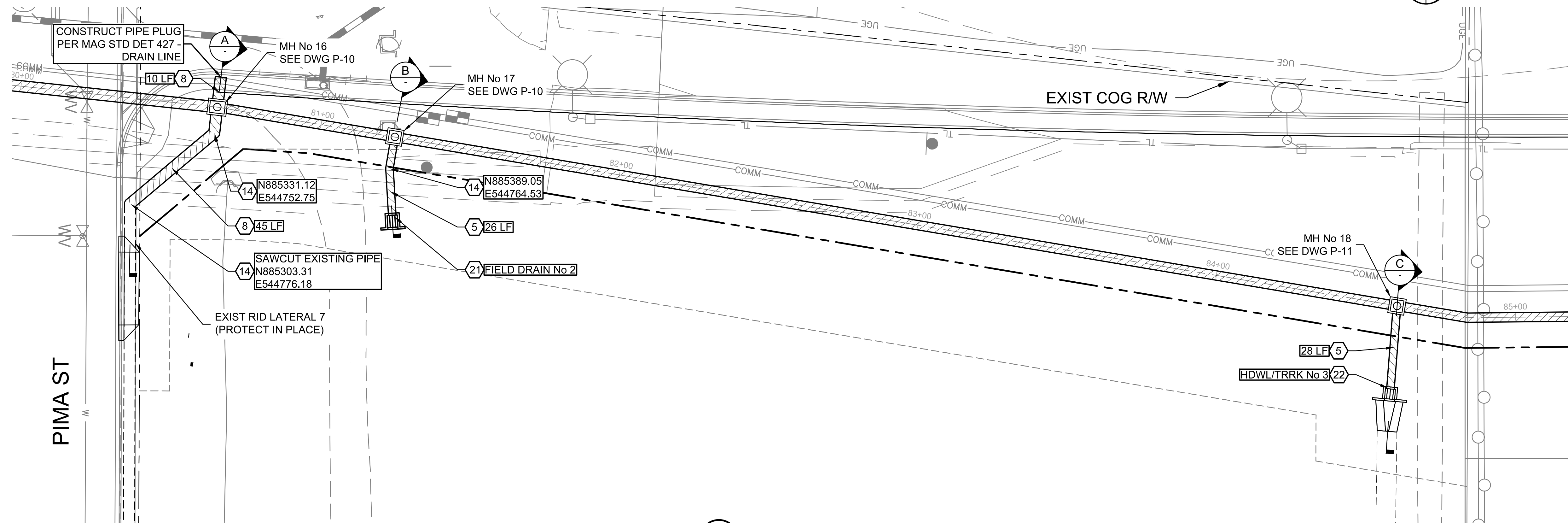
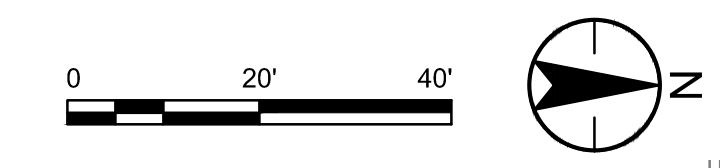
Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**

ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
**LATERAL 7
SITE PLAN 1**

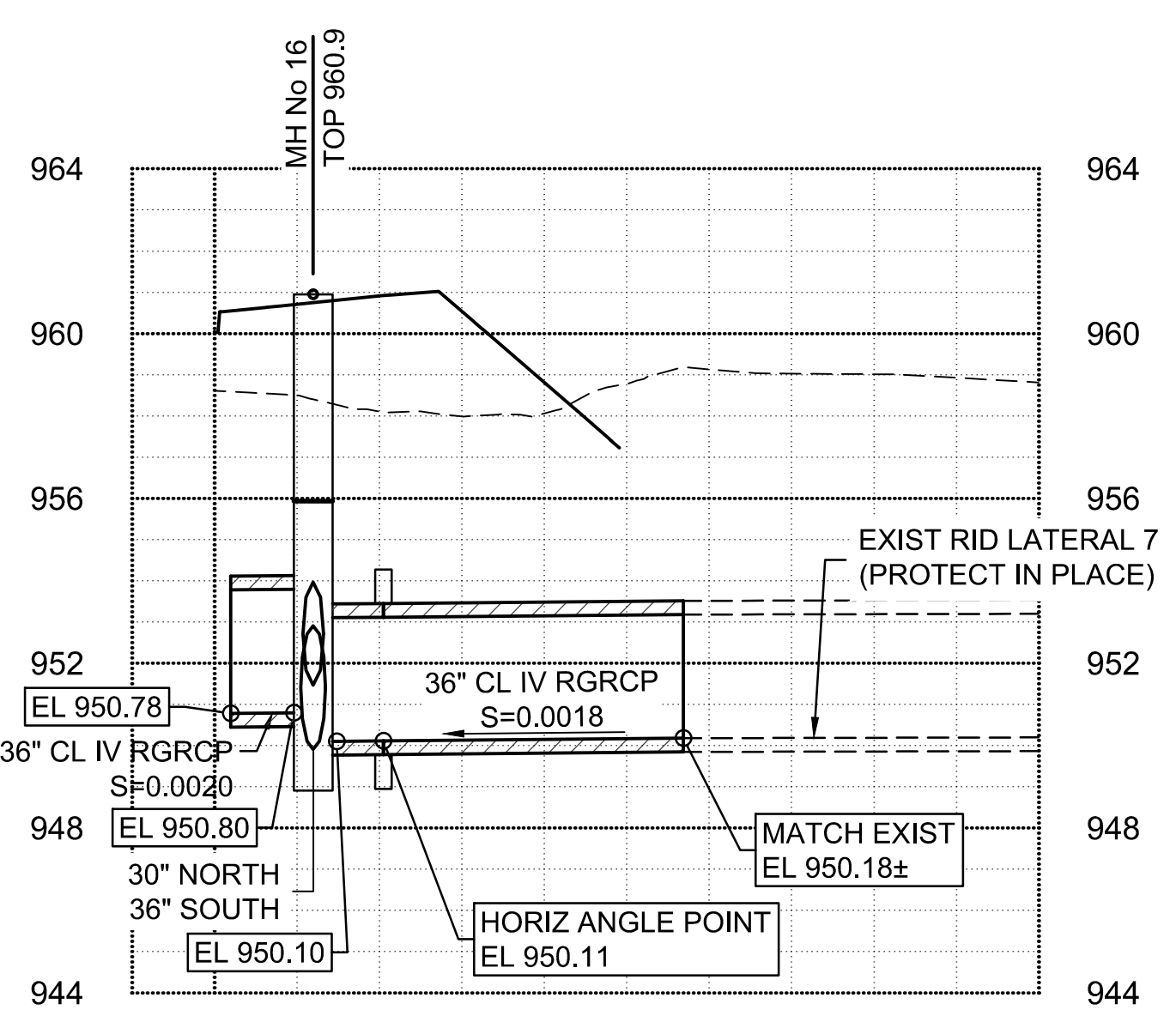
Project No. 181301643	Scale AS SHOWN
Drawing No. SP-1	Sheet 40 of 61
	Revision 0

U:\181301643\Drawings\civil_lat-7\181301643.LAT7PP-2.dwg 2025/03/20 12:00 PM By: Hant, Bryan

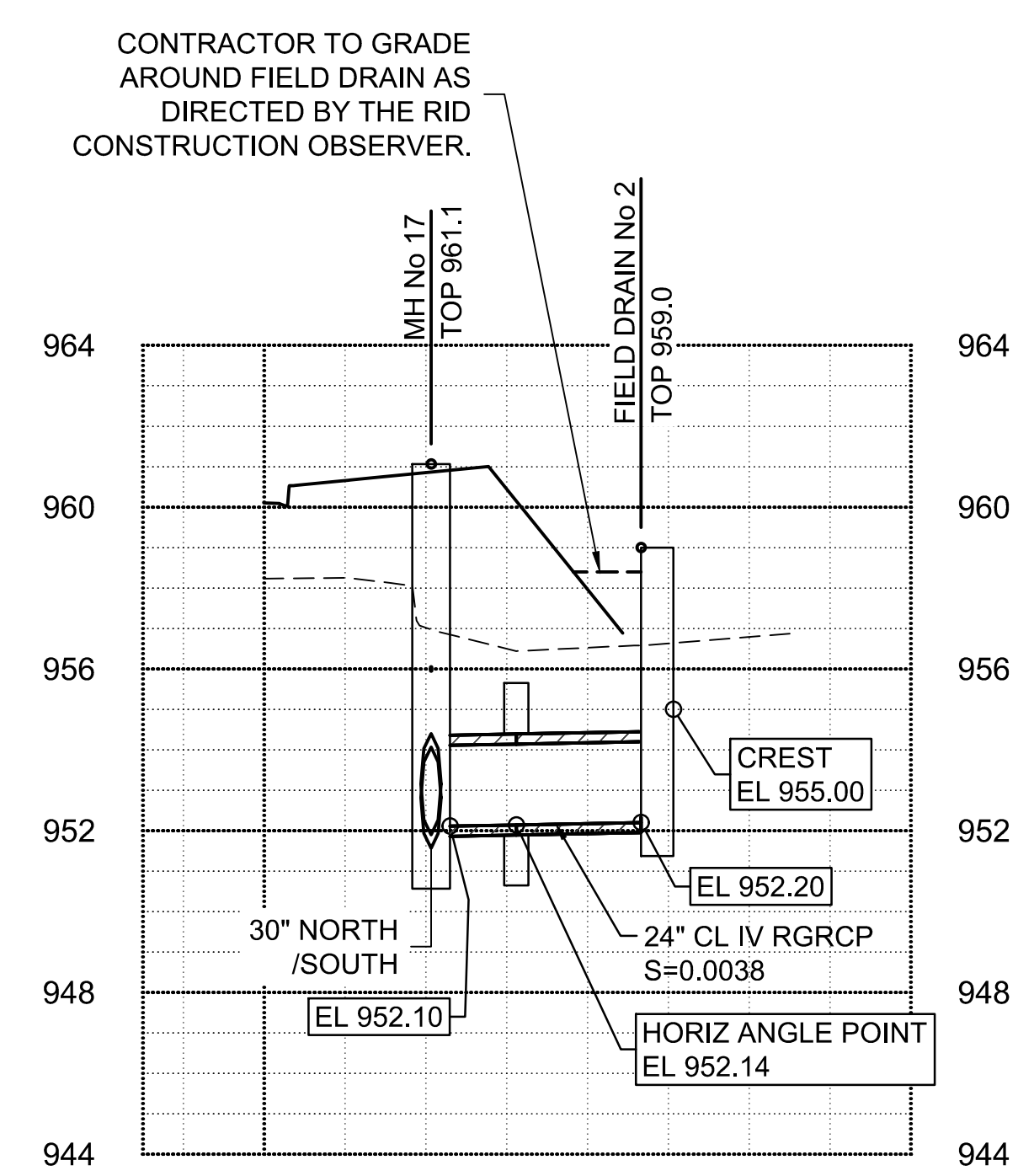


CONSTRUCTION NOTES			
5	FURNISH AND INSTALL 24" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	54	LF
8	FURNISH AND INSTALL 36" RGRCP CL IV SEE DETAIL 9, DWG D-1 FOR PIPE TRENCH DETAIL.	55	LF
14	CONSTRUCT PIPE COLLAR PER DETAIL 8, DWG D-1.	3	EA
21	CONSTRUCT FIELD DRAIN HEADWALL SEE DWG S-5.	1	EA
22	CONSTRUCT INLET HEADWALL/TRASHRACK SEE DWG S-6.	1	EA

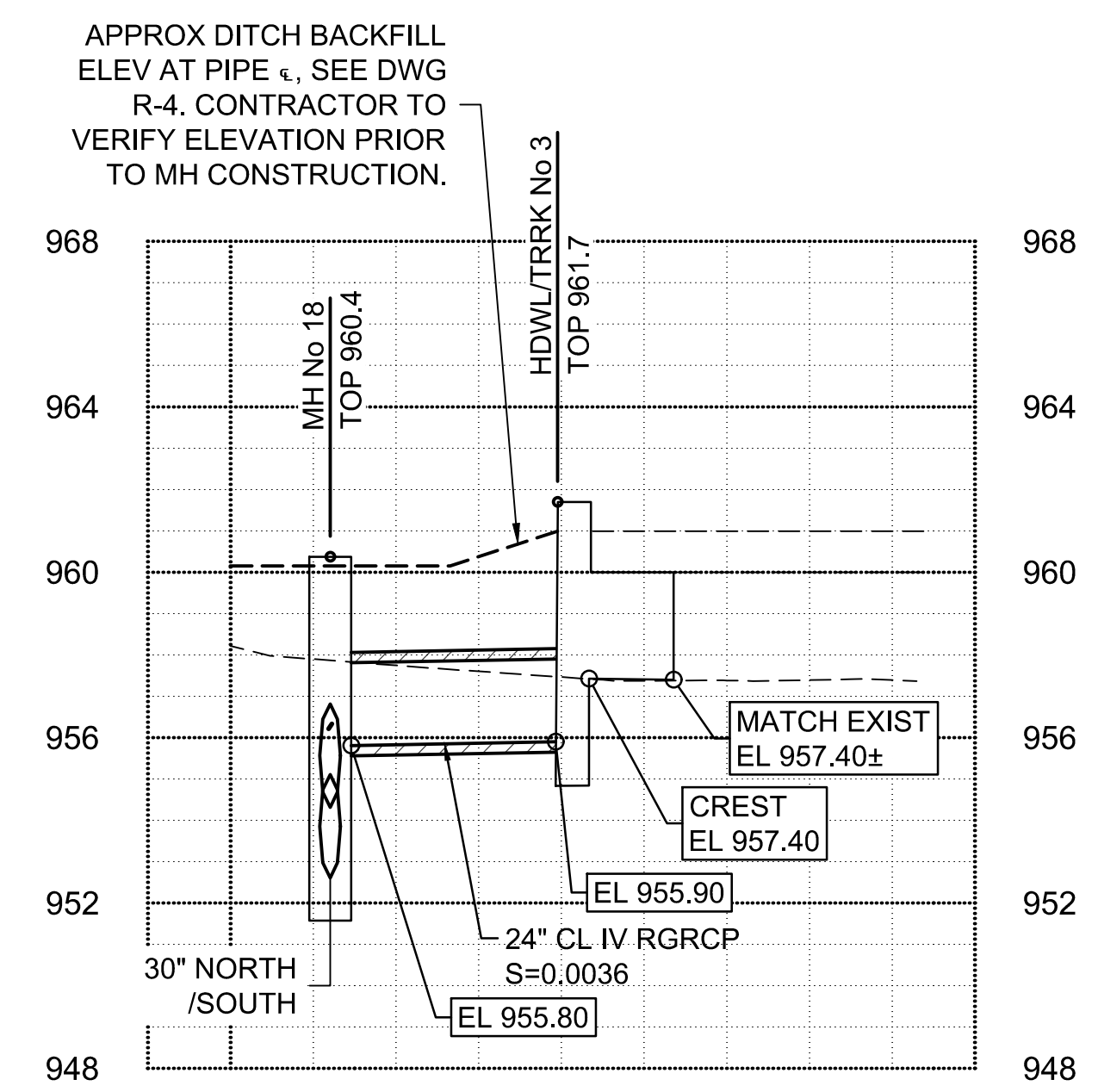
1 SITE PLAN
1"=20'



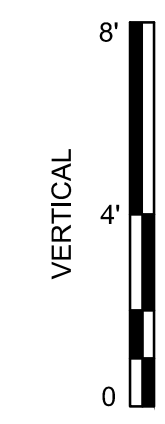
A SECTION
1"=20' HORIZ 1"=4' VER



B SECTION
1"=20' HORIZ 1"=4' VER



C SECTION
1"=20' HORIZ 1"=4' VER



Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP-2.DWG
Dwn: HARUBH Chkd: GGB Dsgn: CTS
Date: 03/20/26
MM.DD.YY

Permit-Seal

Expires 12/31/2028

Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

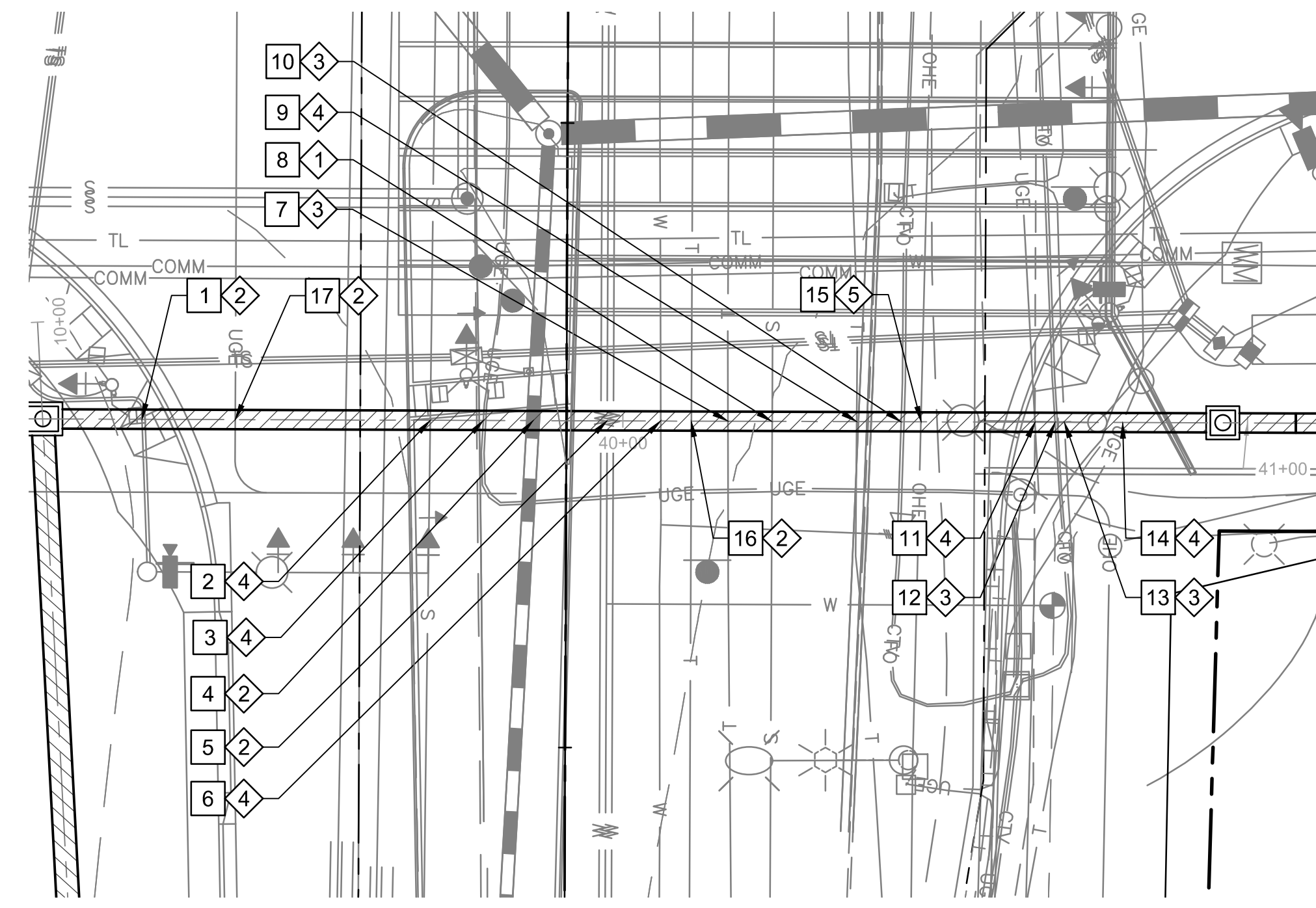
Title
**LATERAL 7
SITE PLAN 2**

Project No. 181301643
Drawing No. SP-2
Scale AS SHOWN
Sheet 41 of 61
Revision 0

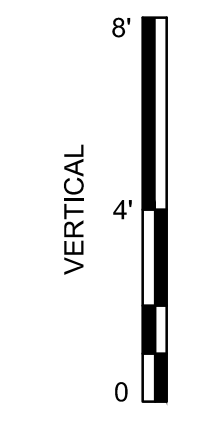
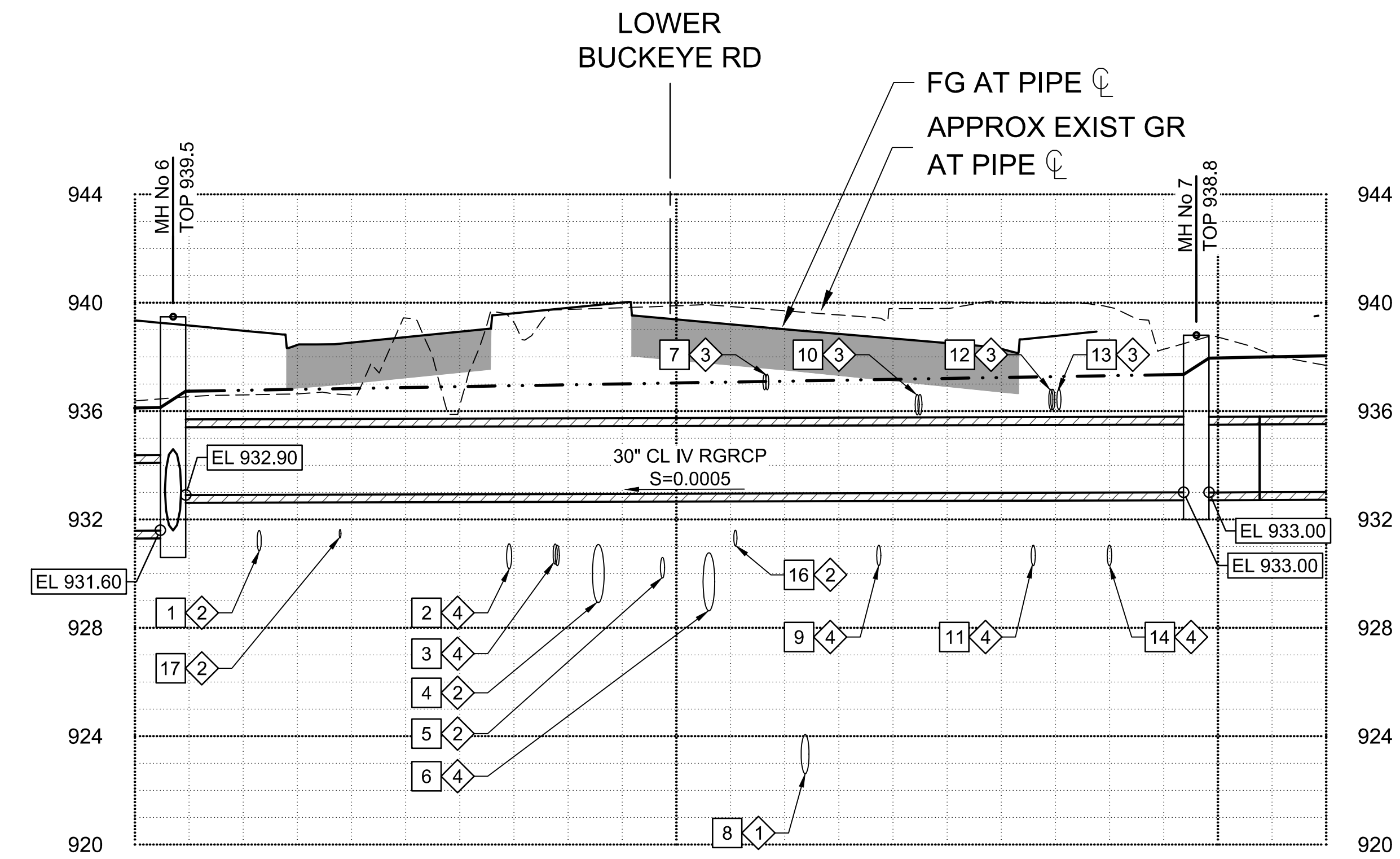
U:\181301643\Drawings\civil_lat-7\181301643.LAT7PP-2.dwg 2025/03/20 12:01 PM By: Harit, Bryan



KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POTHOLE	PROPOSED	MIN FOR CLEARANCE
1	TS	881201.08 544734.34	-	931.60	1'-0"
2	S	881247.23 544734.50	SURVEY: NOT PROVIDED	-	1'-0"
3	UGE	881263.28 544748.35	POTHOLE: NOT FOUND	-	1'-0"
4	SD	881263.70 544734.55	-	CRD MTG: 931.00	1'-0"
5	W	881275.55 544734.59	-	930.60	2'-0"
6	W	881284.28 544739.30	POTHOLE: NOT FOUND	-	2'-0"
7	TEL/FO	881295.53 544734.54	POTHOLE: 937.32	-	1'-0"
8	S	881301.98 544734.68	SURVEY: 922.80	-	1'-0"
9	TEL/FO (2)	881315.31 544734.17	POTHOLE: NOT FOUND SLURRY AT ELEV: 938.99	-	1'-0"
10	FO/CTV	881322.71 544734.27	POTHOLE: 936.57	-	1'-0"
11	UGE	881344.02 544734.91	POTHOLE: NOT FOUND	-	1'-0"
12	TEL/CTV (2)	881347.54 544732.98	POTHOLE: 936.76	-	1'-0"
13	TEL	881347.54 544732.98	POTHOLE: 936.76	-	1'-0"
14	UGE	881357.94 544735.24	POTHOLE: NOT FOUND	-	1'-0"
15	OHE	881325.81 544734.76	-	-	-
16	TEL	881289.01 544734.63	-	931.60	1'-0"
17	UGE	881216.02 544734.39	-	931.60	1'-0"



1 UTILITY PLAN
1" = 20'



- GENERAL NOTES**
- SEE DWG P-4 FOR LATERAL 7 PLAN & PROFILE.
- UTILITY NOTES**
- EXISTING UTILITY. PROTECT IN PLACE. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-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.
 - EXISTING UTILITY IN CONFLICT WITH PROPOSED RID FACILITIES. REFER TO UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.
 - UNLOCATED EXISTING UNDERGROUND UTILITY. CONTRACTOR TO VERIFY SIZE AND DEPTH PRIOR TO CONSTRUCTION. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.
 - CAUTION! OVERHEAD ELECTRIC LINES, PROTECT IN PLACE.

Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
File Name: 181301643.LAT7PP-2.DWG

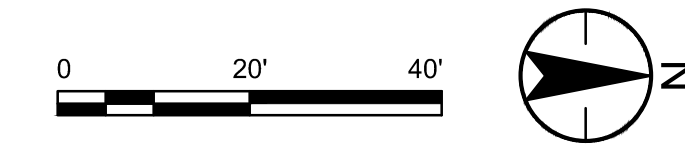
Permit Seal
70263 CAMERON T SMITH
SMITH
03/20/20
Expires 12/31/2028

Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

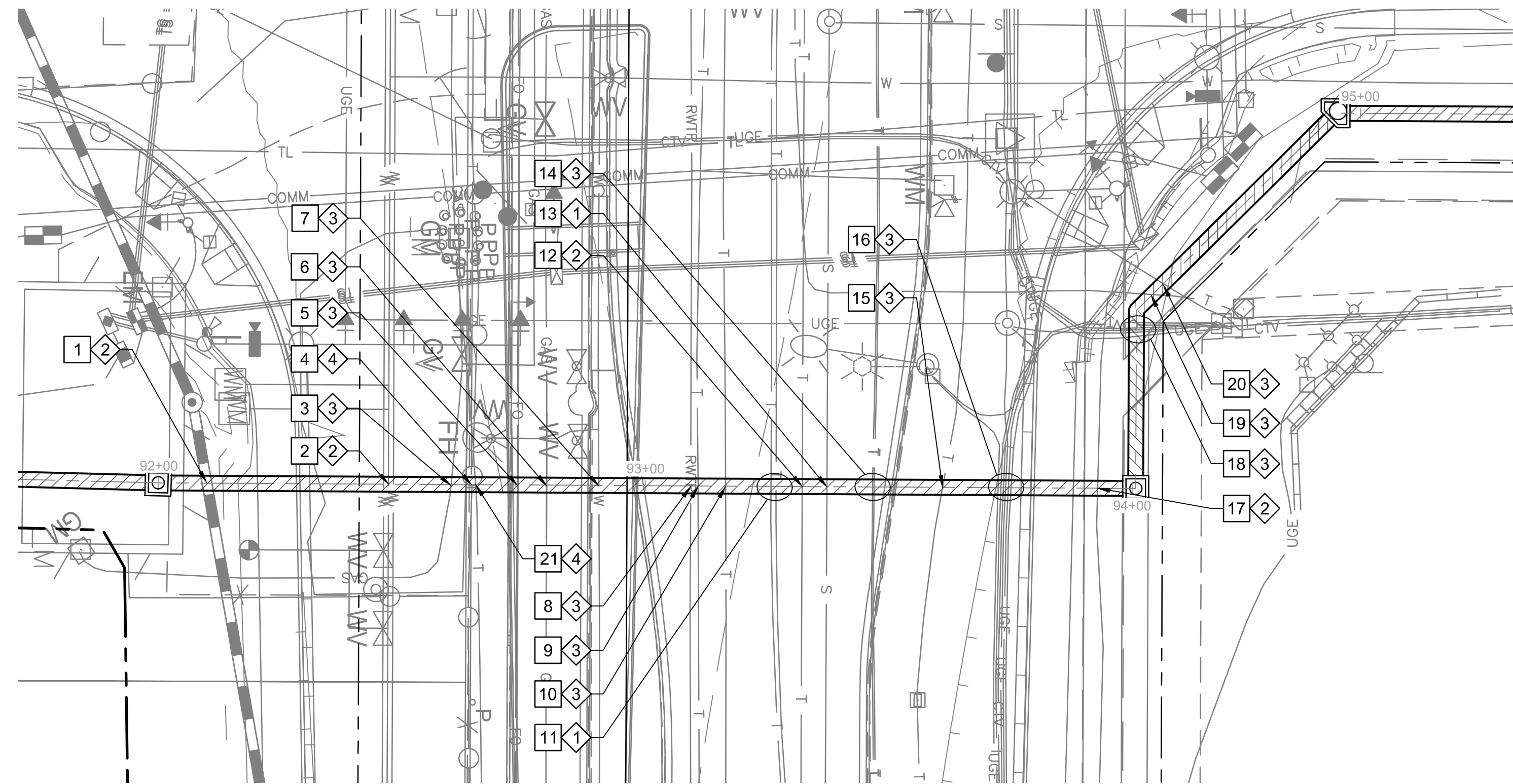
Title
LATERAL 7
UTILITY CONFLICTS
LOWER BUCKEYE RD

Project No. 181301643
Drawing No. UT-1
Scale 1"=20' HOR 1"=4' VERT
Sheet 42 of 61
Revision 0

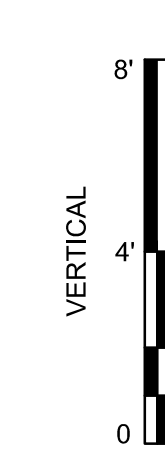
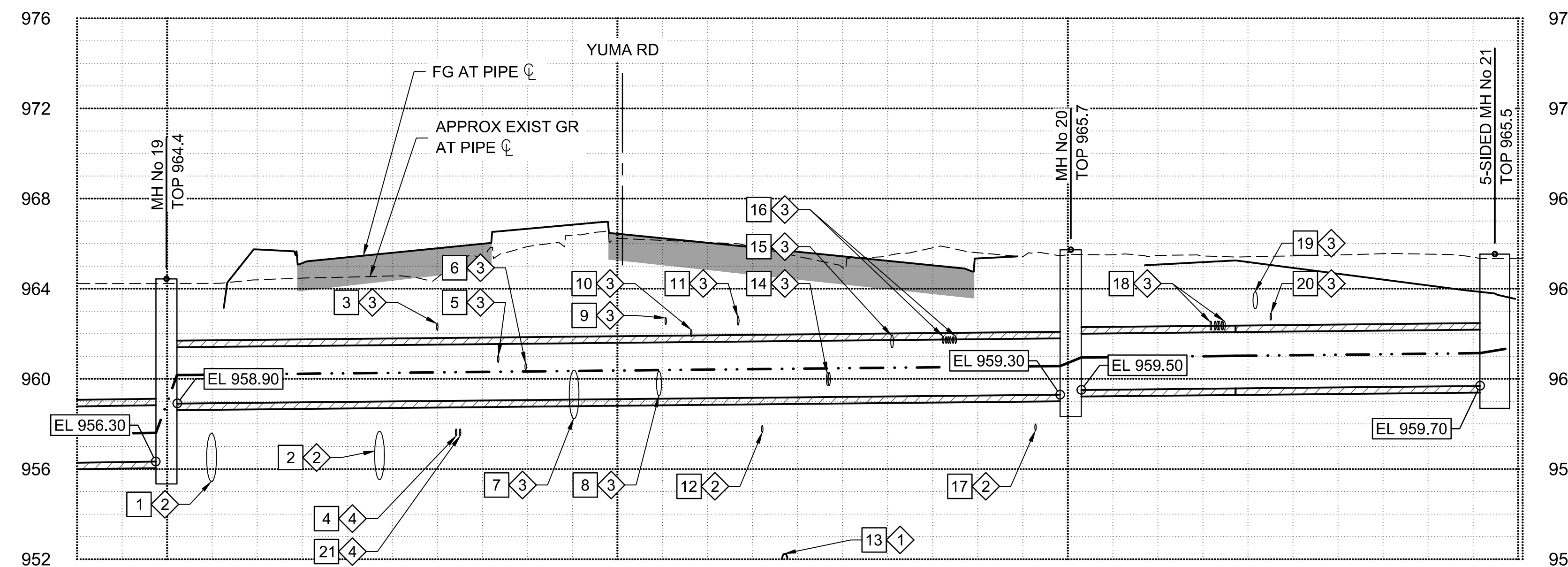
U:\181301643\Drawings\civil_lat-7\181301643.LAT7PP-2.dwg 2025/02/20 12:01 PM By: Hant, Bryan



KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POT HOLE	PROPOSED	MIN FOR CLEARANCE
1	SD	886470.80 544822.02	-	957.60	1'-0"
2	W	886508.15 544822.35	-	957.65	1'-0"
3	GAS	886520.59 544823.33	POTHOLE: 962.43	-	1'-0"
4	FO	886525.32 544822.70	POTHOLE: NOT FOUND	-	1'-0"
5	FO	886535.67 544822.79	POTHOLE: 961.01	-	1'-0"
6	GAS	886540.11 544822.86	POTHOLE: 960.67	-	1'-0"
7	W	886550.79 544822.78	POTHOLE: 960.31	-	1'-0"
8	RECL	886569.82 544822.93	POTHOLE: 960.29	-	1'-0"
9	TEL	886572.54 544822.89	POTHOLE: 962.69	-	1'-0"
10	TEL	886577.12 544822.91	POTHOLE: 962.15	-	1'-0"
11	TEL	886587.61 544823.04	POTHOLE: 962.75	-	1'-0"
12	TEL	886593.15 544822.83	-	957.90	1'-0"
13	S	886598.22 544822.94	SURVEY: 952.28	-	1'-0"
14	TEL	886608.01 544823.15	POTHOLE: 960.24	-	1'-0"
15	TEL	886622.55 544821.62	POTHOLE: 961.91	-	1'-0"
16	UGE, CTV, TEL	886635.03 544823.47	POTHOLE: 961.85	-	1'-0"
17	COMM	886653.83 544823.18	-	958.00	1'-0"
18	UGE, CTV, TEL	886662.26 544790.06	-	962.53	1'-0"
19	TEL	886668.18 544783.16	POTHOLE: 963.82	-	1'-0"
20	CTV	886668.18 544783.16	POTHOLE: 962.89	-	1'-0"
21	FO	886525.73 544823.17	POTHOLE: NOT FOUND	-	1'-0"



1 UTILITY PLAN
1" = 20'



- GENERAL NOTES**
- SEE DWG P-12 FOR LATERAL 7WW PLAN & PROFILE.
- UTILITY NOTES**
- EXISTING UTILITY. PROTECT IN PLACE. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-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.
 - EXISTING UTILITY IN CONFLICT WITH PROPOSED RID FACILITIES. REFER TO UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.
 - UNLOCATED EXISTING UNDERGROUND UTILITY. CONTRACTOR TO VERIFY SIZE AND DEPTH PRIOR TO CONSTRUCTION. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.

Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP-2.DWG HAR/UBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

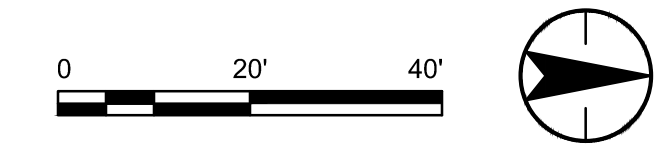
Expires 12/31/2028

Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW

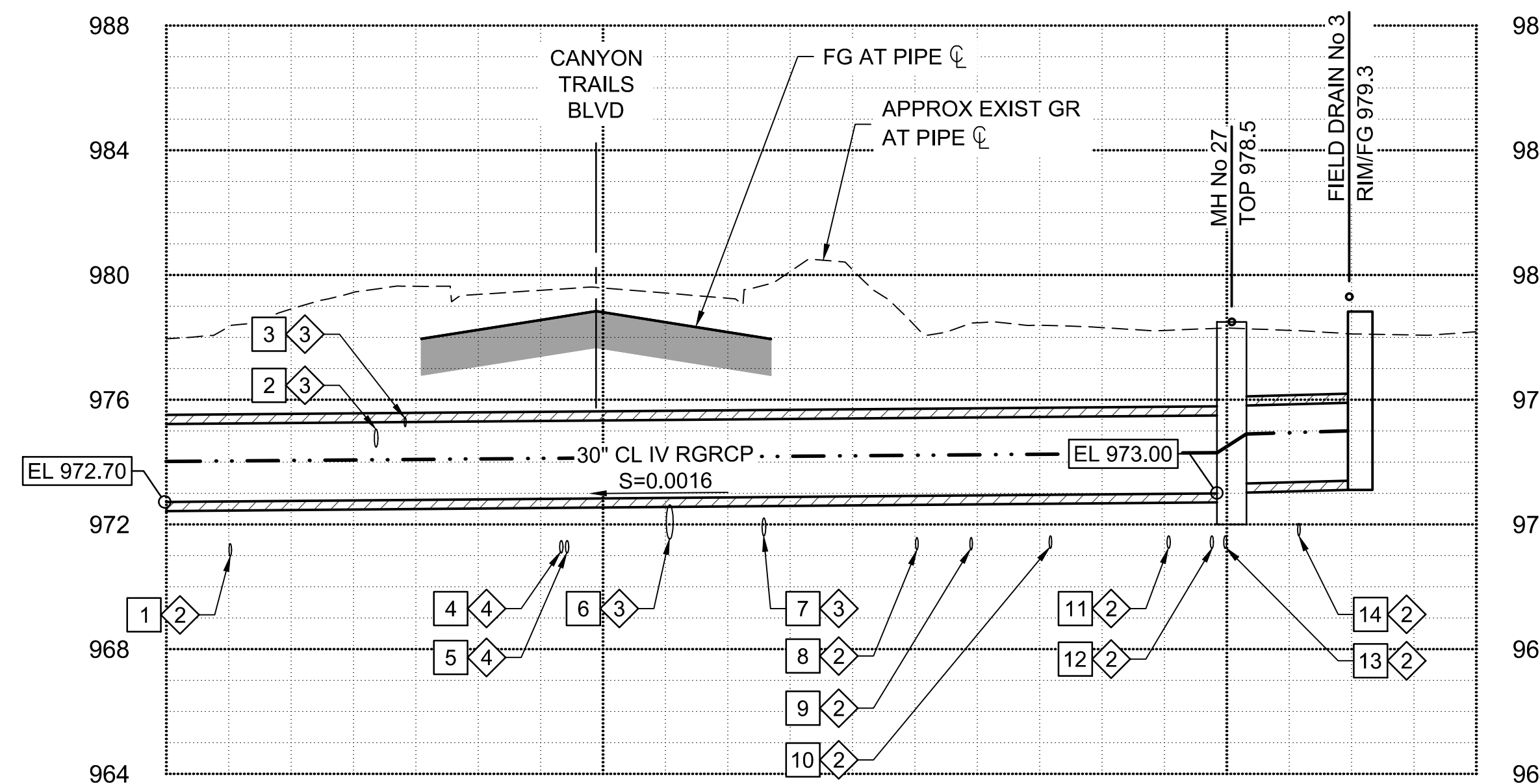
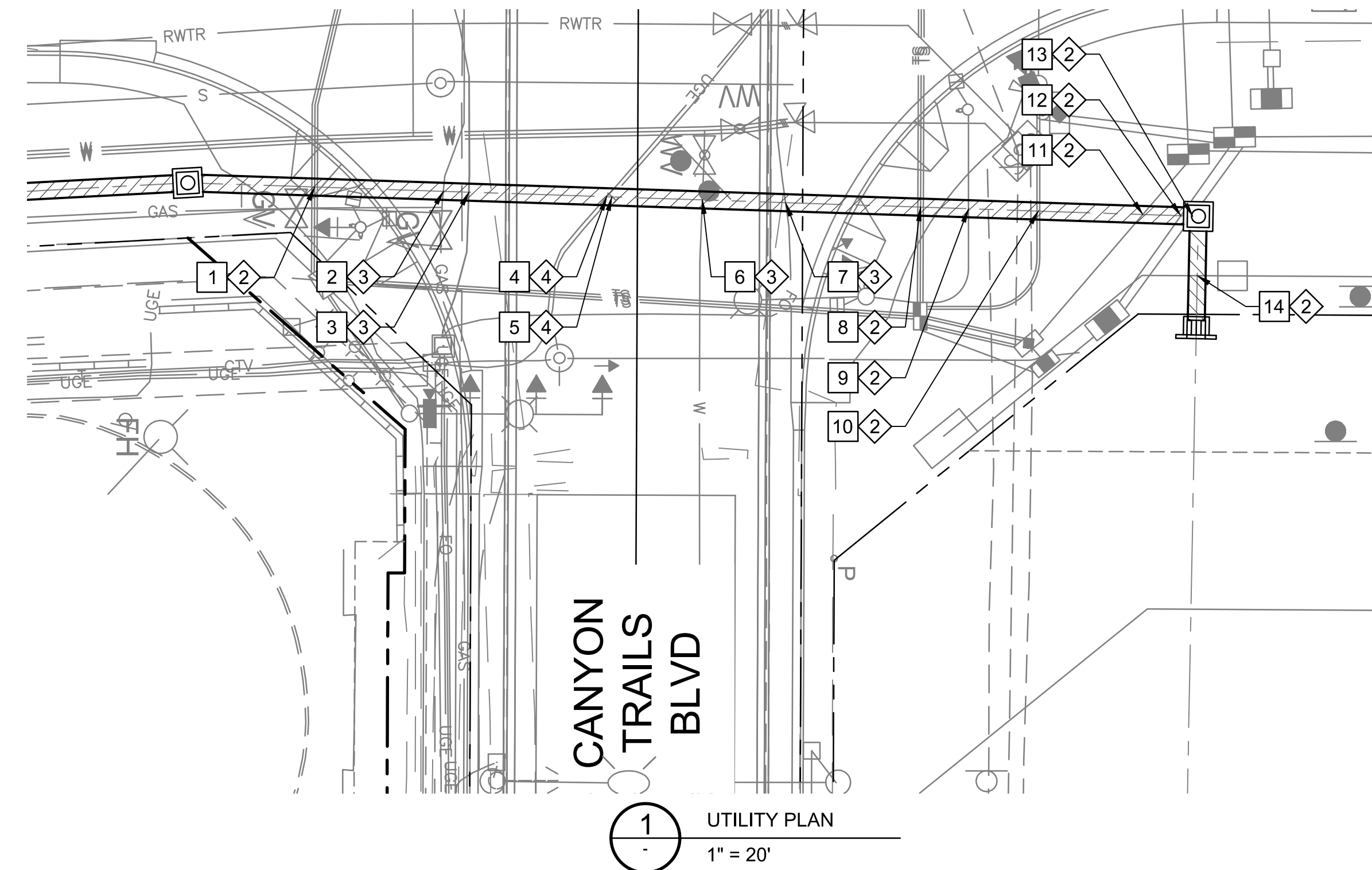
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
LATERAL 7
UTILITY CONFLICTS
YUMA RD

Project No. 181301643 Scale 1"=20' HOR 1"=4' VERT
Drawing No. UT-2 Sheet 43 of 61 Revision 0



KEY NOTE	TYPE OF UTILITY	NORTHING EASTING	TOP ELEVATION		
			AS-BUILT POTHOLE	PROPOSED	MIN FOR CLEARANCE
1	TS	889144.62 544632.47	-	971.35	1'-0"
2	GAS	889172.80 544620.97	POTHOLE: 975.02	-	1'-0"
3	CTV	889168.19 544630.99	POTHOLE: 975.41	-	1'-0"
4	UGE	889197.93 544634.22	NOT POTHOLED	-	1'-0"
5	UGE	889198.86 544634.25	NOT POTHOLED	-	1'-0"
6	WAT	889215.56 544631.19	POTHOLE: 972.58	-	1'-0"
7	FO	889229.15 544633.13	POTHOLE: 972.17	-	1'-0"
8	TS	889254.90 544636.11	-	971.55	1'-0"
9	TS	889263.59 544636.40	-	971.55	1'-0"
10	TS	889276.30 544636.82	-	971.60	1'-0"
11	COMM	889295.24 544637.45	-	971.60	1'-0"
12	COMM	889302.16 544637.67	-	971.60	1'-0"
13	COMM	889304.30 544637.75	-	971.60	1'-0"
14	UGE	889305.13 544648.55	-	972.00	1'-0"



- GENERAL NOTES**
- SEE DWG P-16 FOR LATERAL 7WW PLAN & PROFILE.
- UTILITY NOTES**
- 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.
 - EXISTING UTILITY IN CONFLICT WITH PROPOSED RID FACILITIES. REFER TO UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.
 - UNLOCATED EXISTING UNDERGROUND UTILITY. CONTRACTOR TO VERIFY SIZE AND DEPTH PRIOR TO CONSTRUCTION. REFER TO RID UTILITY LOCATION/RELOCATION NOTES ON DWG G-2.

Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: 181301643.LAT7PP-2.DWG
Dwn. Chkd. Dsgn. MM.DD.YY
HARUBH GGB CTS 03.20.26

Permit-Seal
70263 CAMERON T. SMITH
Professional Engineer
EXPIRES 12/31/2028

Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
LATERAL 7WW REACH
UTILITY CONFLICTS
CANYON TRAILS BLVD

Project No. 181301643
Scale 1"=20' HOR 1"=4' VERT

Drawing No. UT-3
Sheet 44 of 61
Revision 0

Concrete Notes

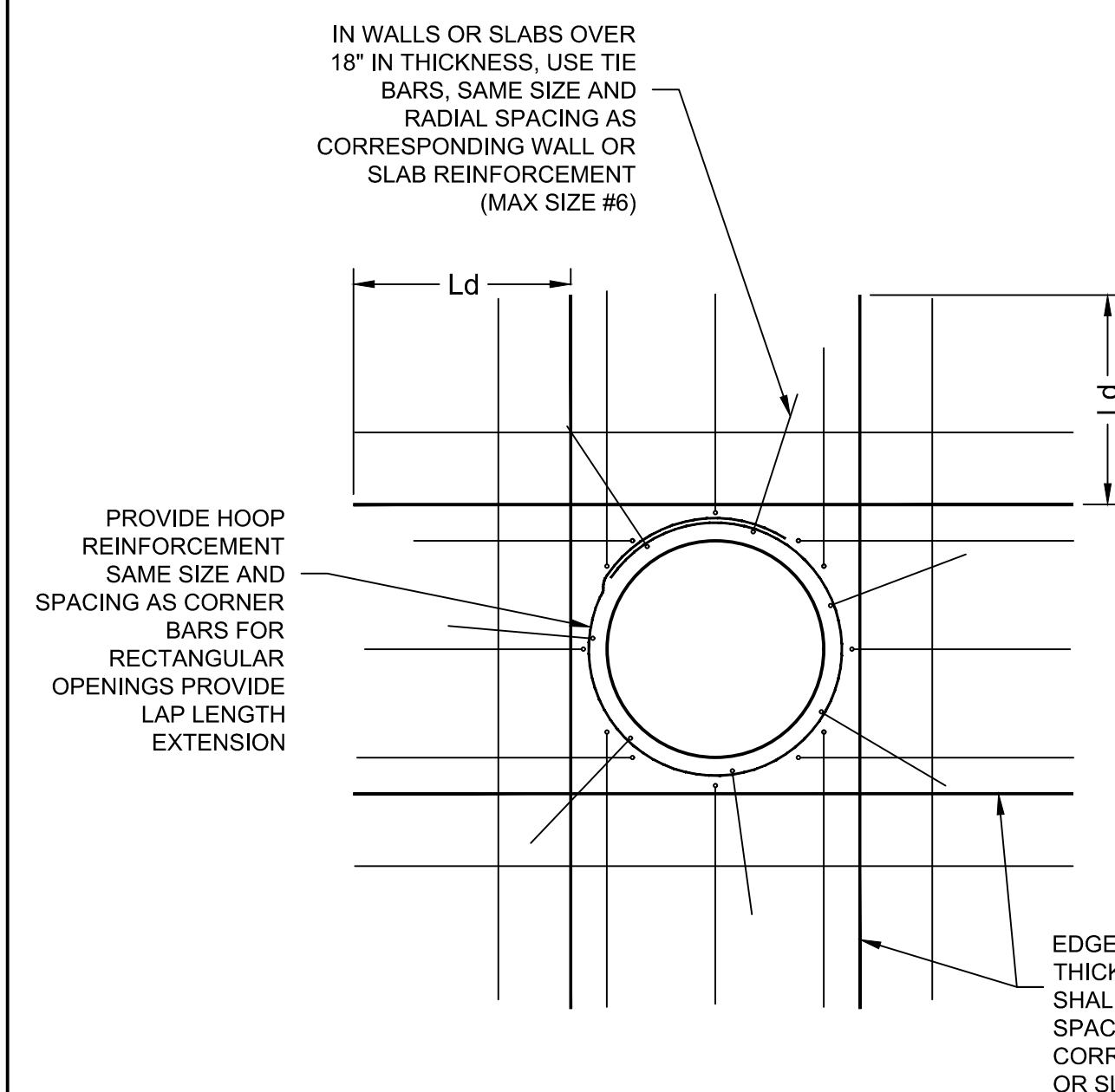
- SAWCUT END OF PIPE AND PLACE 2" BACK FROM INSIDE FACE OF WALL. BLAST CLEAN TO ROUGHEN CUT PIPE AND COAT WITH EPOXY COATING (SIKADUR 31, HI-MOD GEL (OAE).
- CHAMFER EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES OF ALL STRUCTURES WITH A 45° BEVEL, 3/4"x3/4".
- ALL DIMENSIONS TO A JOINT ARE TO THE CENTERLINE 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)

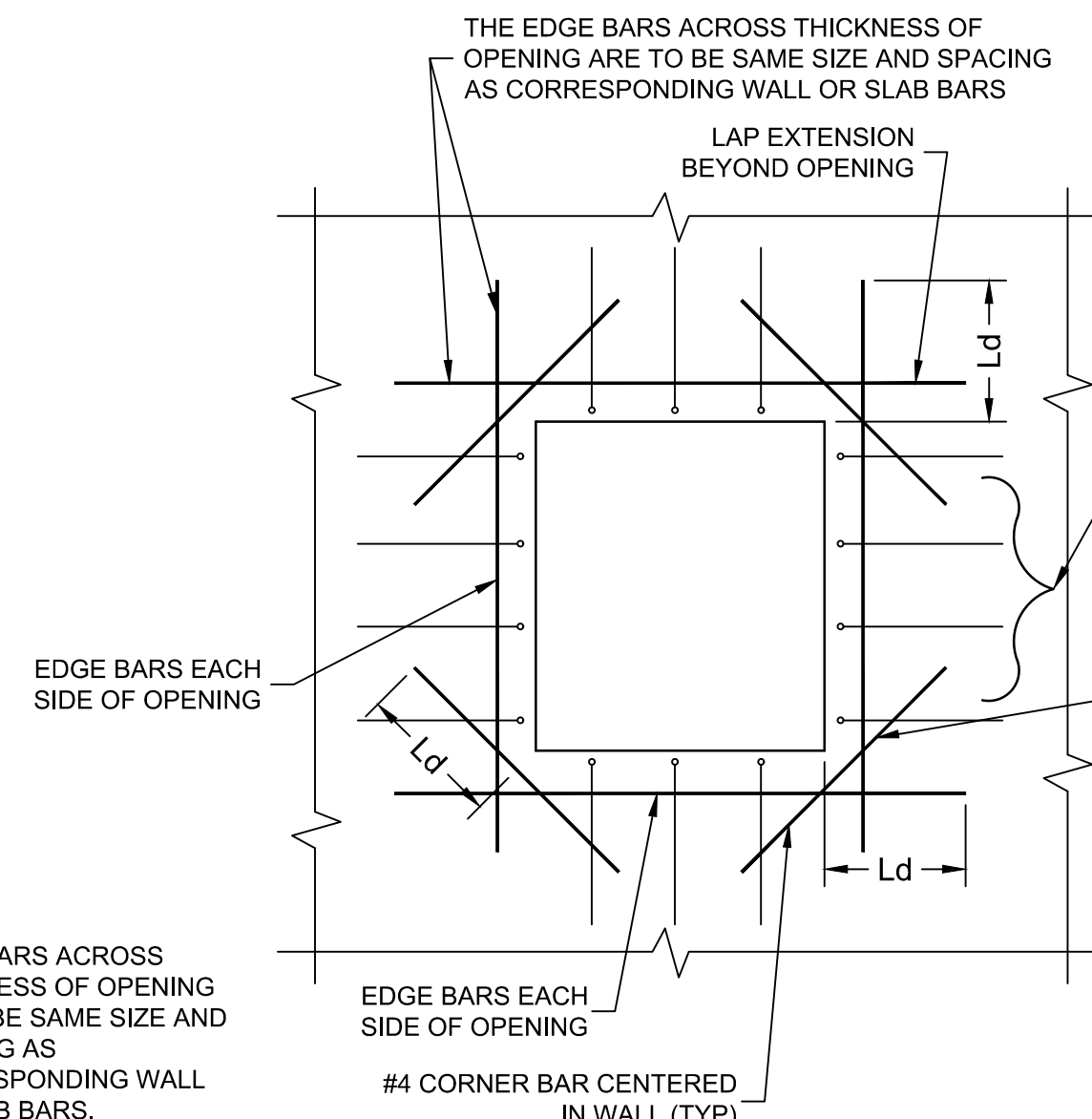
OMIT EDGE AND TIE BARS ALONG SIDES OF OPENINGS LESS THAN 18". OMIT CORNER BARS AT SIDES OF OPENINGS ADJACENT TO FLOORS, WALLS, OR BEAMS. OMIT CORNER BARS IF BOTH DIMENSIONS OF OPENINGS ARE LESS THAN 18". RECESSES: USE CORNER BARS IN FACE OF RECESSES DEEPER THAN 4" IF EITHER DIMENSION OF RECESS IS EQUAL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



REINFORCEMENT AROUND CIRCULAR OPENINGS



REINFORCEMENT AROUND RECTANGULAR OPENINGS FOR WALLS LESS THAN 10" THICK

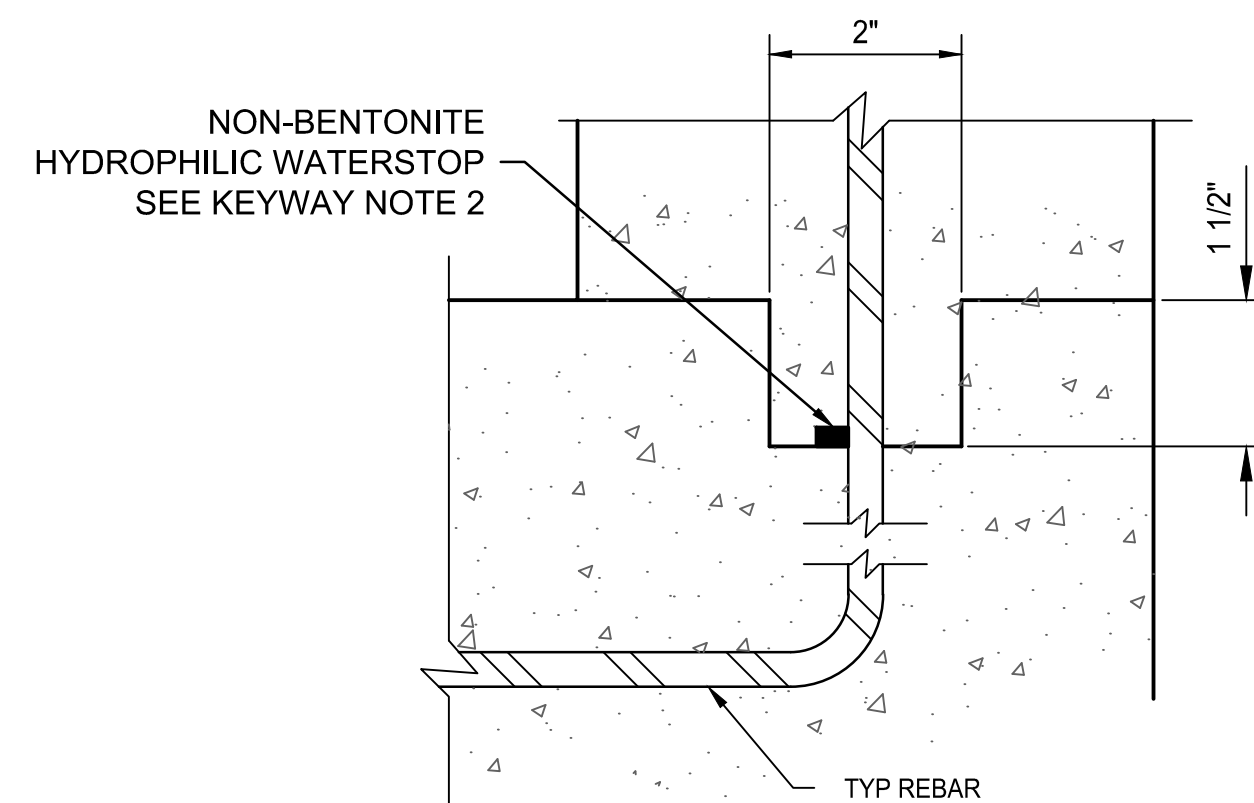
IN WALLS OR SLABS OVER 18" IN THICKNESS, USE TIE BARS, SAME SIZE AND SPACING AS CORRESPONDING WALL OR SLAB REINFORCEMENT (MAX SIZE #6)

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

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).

ADDITIONAL REINFORCEMENT AT OPENING IN CONCRETE SLAB OR WALL



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).

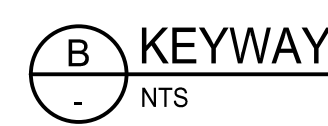
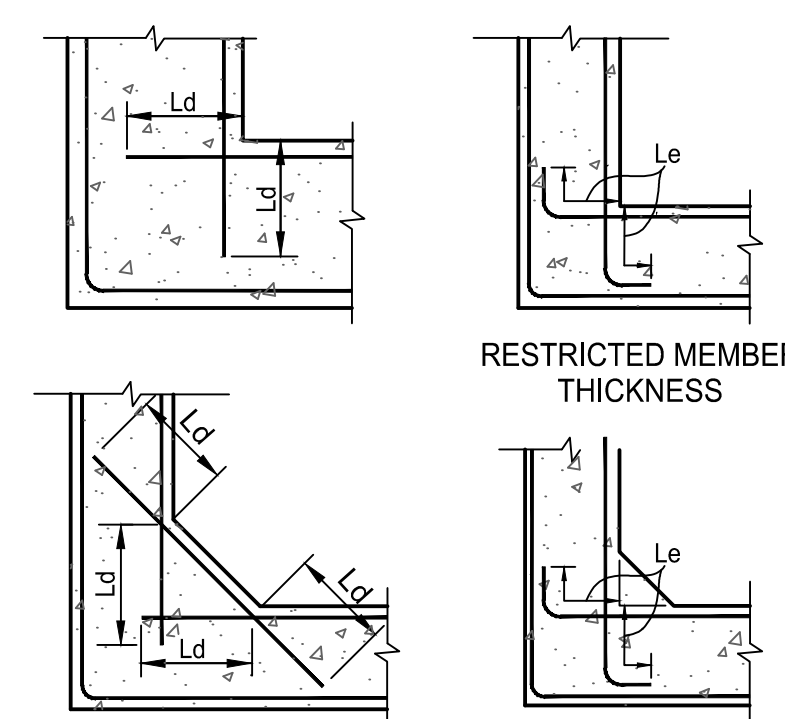
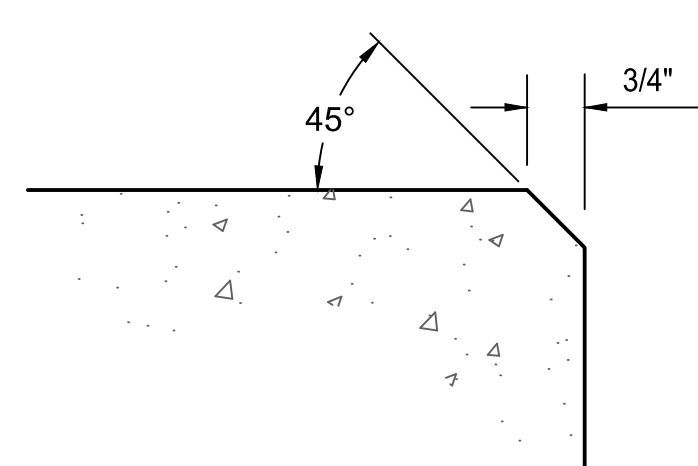


TABLE OF SPLICE AND EMBEDMENT LENGTHS						
FOR CONCRETE WITH $f_c = 4000$ PSI						
BAR #	MIN CENTER TO CENTER BAR SPACING (INCHES)	LENGTH l_e OF LAPPED SPLICE (INCHES)		DEVELOPMENT LENGTH l_d (INCHES)		REBAR f_s PSI
		TOP BARS*	OTHER BARS	TOP BARS*	OTHER BARS	
3	1 1/8	24	19	19	15	24,000 (GRADE 60)
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						
FOR CONCRETE WITH $f_c = 3000$ PSI						
BAR #	MIN CENTER TO CENTER BAR SPACING (INCHES)	LENGTH l_e OF LAPPED SPLICE (INCHES)		DEVELOPMENT LENGTH l_d (INCHES)		REBAR f_s PSI
		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	-	-	-	



Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.6100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: S1_1643.DWG
Dwn: CHld. Dsgn: MM.DD.YY

Permit-Seal

Expires 12/31/2028

Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW

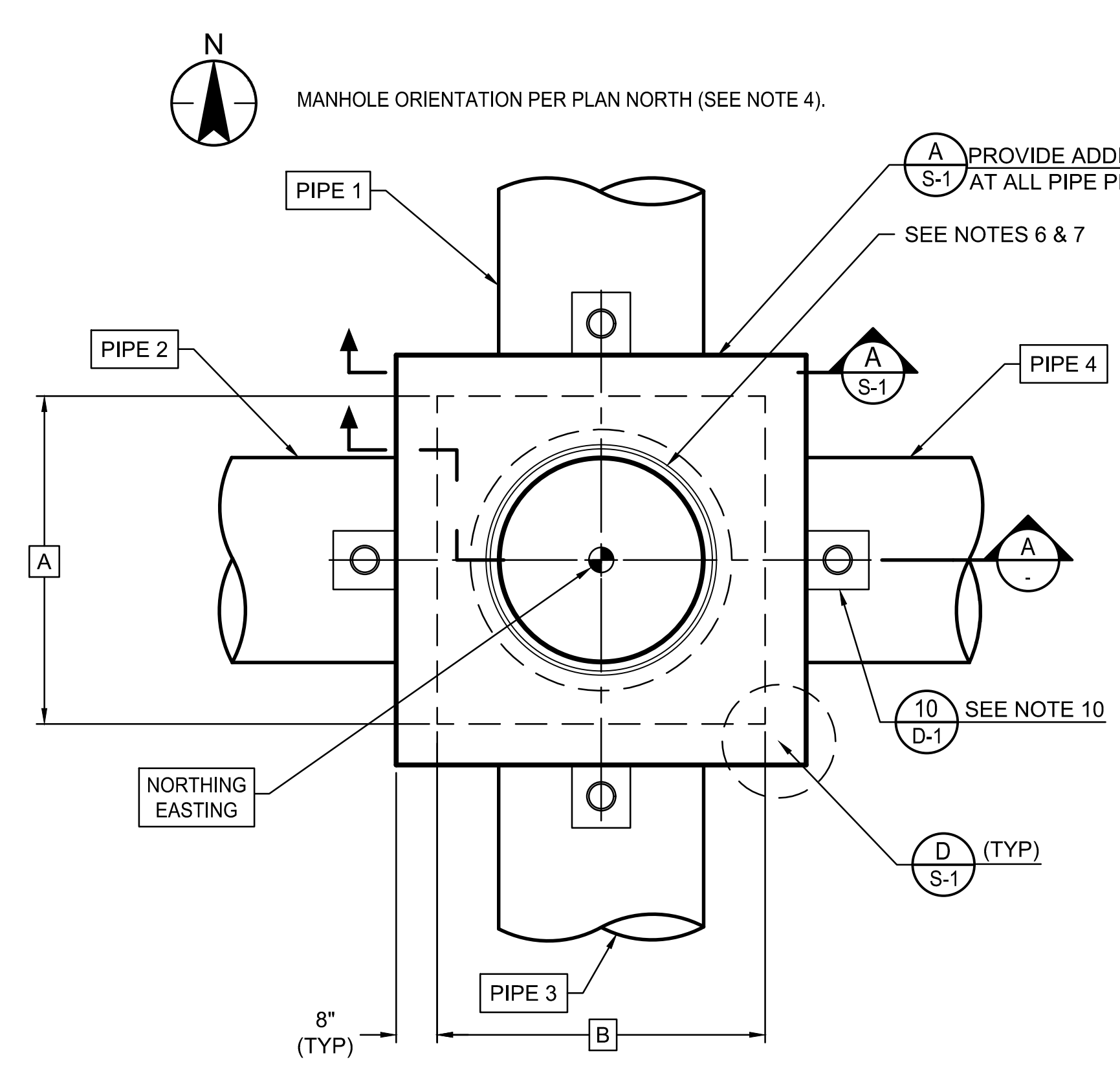
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
CONCRETE DETAILS

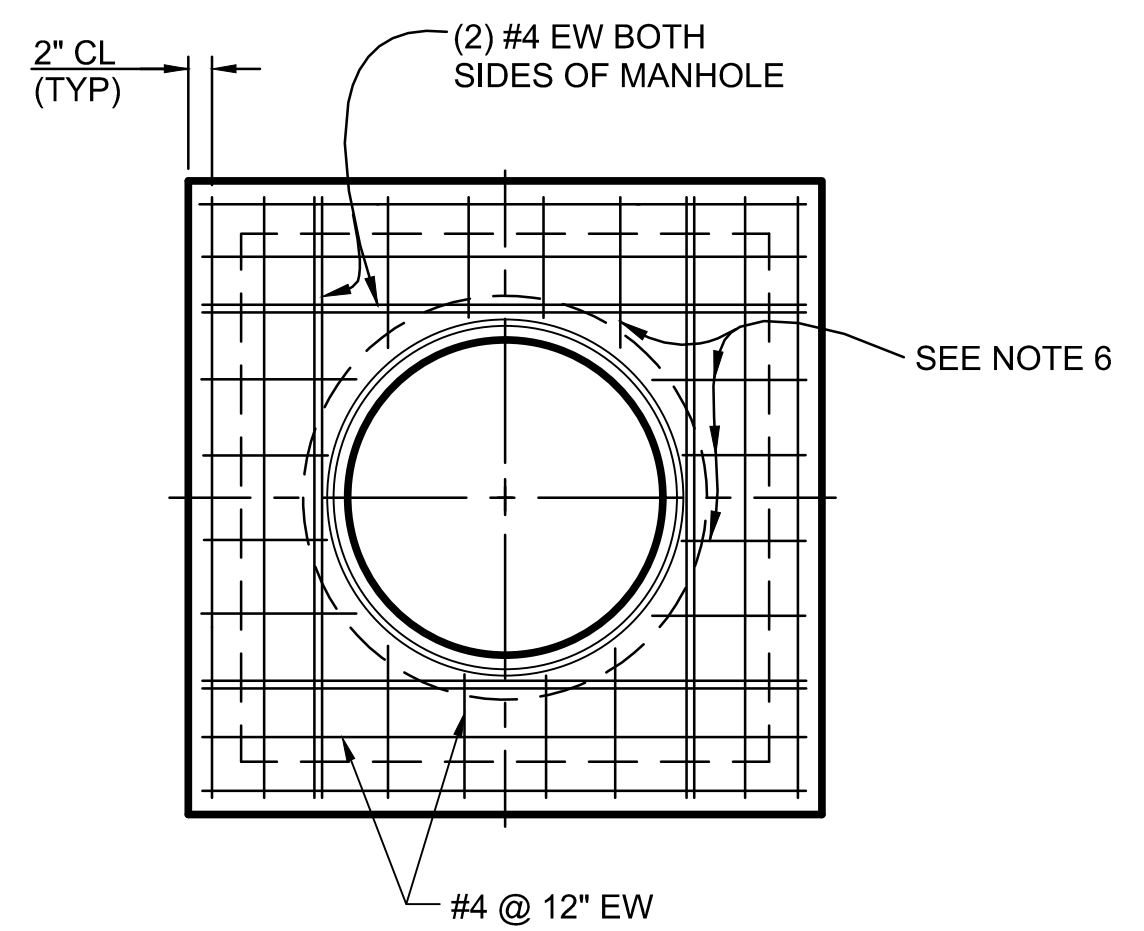
Project No. 181301643
Scale AS SHOWN

Drawing No. Sheet
Revision

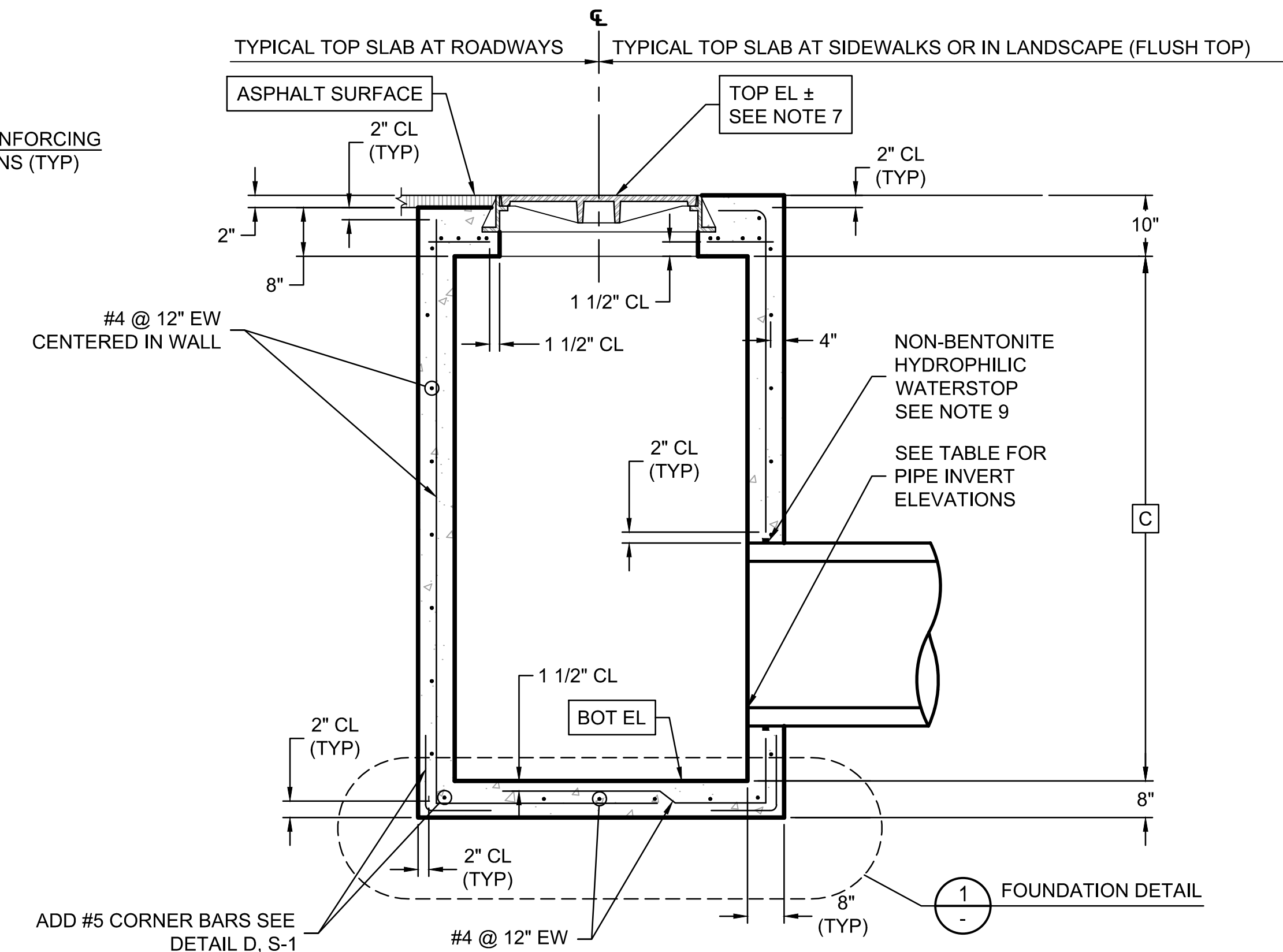
U:\181301643\Drawings\civil\lat-7\1_1643.dwg, 2/26/2012 12:02 PM By: Hart, Bryan



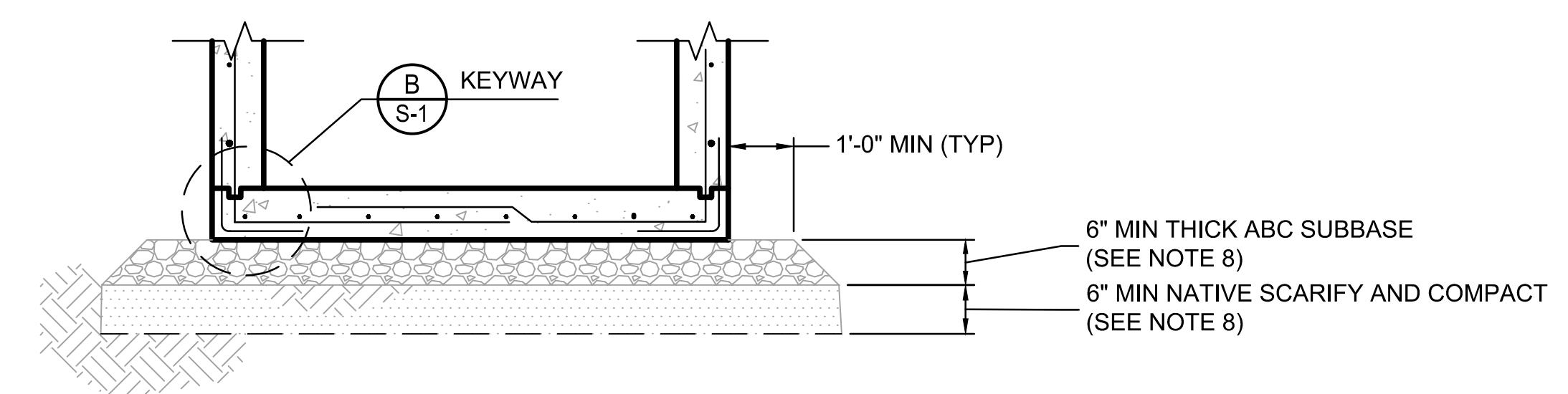
MANHOLE PLAN
NTS



TOP SLAB REINFORCING PLAN
NTS



A SECTION
NTS



1 FOUNDATION DETAIL
NTS

Notes

1. ALL STRUCTURAL CONCRETE SHALL BE CLASS AA (4,000 PSI) PER MAG SPECIFICATION SECTION 725.
2. REINFORCING STEEL BARS SHALL CONFORM TO ASTM A-615 GRD 60.
3. CONCRETE SHALL BE PLACED WITH NO COLD JOINTS. ALL CONCRETE SHALL BE VIBRATED DURING PLACEMENT.
4. SEE PLAN AND PROFILE DRAWING FOR CORRECT ORIENTATION OF MANHOLE.
5. 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 DIMENSIONS AS REQUIRED TO MATCH THE APPROPRIATE ADJACENT FINISHED GRADE.
6. FIELD CUT REBAR AT MANHOLE AT FRAME AND PIPE PENETRATIONS.
7. 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.
8. 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.
9. 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).
10. 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.

Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: S2_1643.DWG	Dwn: HARUBH	Chkd: GGB	Dsgn: CTS	MM.DD.YY: 03.20.26
------------------------	-------------	-----------	-----------	--------------------

Permit-Seal

Expires 12/31/2028

Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title MANHOLE DETAILS	
Project No. 181301643	Scale AS SHOWN
Drawing No. S-2	Sheet 46 of 61
	Revision 0

U:\181301643\Drawings\civil_lat-7\2_1643.dwg, 2/26/2026 12:03 PM By: Hart, Bryan

MANHOLE SCHEDULE

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
2	879543.99 544546.13	P-2	931.5	924.3	30" RGRCP CL IV	925.6	-	-	30" RGRCP CL IV	925.3	-	-	4'-0 0/8"	4'-0 0/8"	6'-4 3/8"	-	X
3	879937.87 544601.86	P-2	933.4	925.8	30" RGRCP CL IV	927.1	-	-	30" RGRCP CL IV	926.8	24" RGRCP CL IV	928.3	4'-0 0/8"	4'-0 0/8"	6'-9 2/8"	-	X
4	880397.90 544683.33	P-3	936.8	928.0	30" RGRCP CL IV	930.5	-	-	30" RGRCP CL IV	929.0	-	-	4'-0 0/8"	4'-0 0/8"	7'-11 5/8"	-	X
5	880866.72 544726.94	P-4	938.8	929.9	30" RGRCP CL IV	931.1	-	-	30" RGRCP CL IV	930.9	-	-	4'-0 0/8"	4'-0 0/8"	8'-0 6/8"	-	X
6	881185.17 544734.29	P-4	939.5	930.6	30" RGRCP CL IV	932.9	-	-	30" RGRCP CL IV	931.6	36" RGRCP CL IV	931.6	5'-0 0/8"	4'-0 0/8"	8'-0 6/8"	-	X
7	881374.12 544734.92	P-4	938.8	932.0	30" RGRCP CL IV	933.0	-	-	30" RGRCP CL IV	933.0	-	-	4'-0 0/8"	4'-0 0/8"	5'-11 5/8"	-	X
8	881829.18 544678.93	P-5	939.9	932.5	30" RGRCP CL IV	933.7	-	-	30" RGRCP CL IV	933.5	-	-	4'-0 0/8"	4'-0 0/8"	6'-6 6/8"	-	X
9	882276.96 544680.42	P-6	941.3	933.4	30" RGRCP CL IV	935.8	-	-	30" RGRCP CL IV	934.4	-	-	4'-0 0/8"	4'-0 0/8"	7'-0 6/8"	-	X
10	882866.85 544682.38	P-7	943.2	936.5	30" RGRCP CL IV	938.0	-	-	30" RGRCP CL IV	937.5	-	-	4'-0 0/8"	4'-0 0/8"	5'-10 3/8"	-	X
11	883542.90 544682.11	P-8	952.3	939.7	30" RGRCP CL IV	947.3	-	-	30" RGRCP CL IV	940.7	-	-	4'-0 0/8"	4'-0 0/8"	11'-9 2/8"	-	X
12	883727.78 544669.53	P-8	952.9	946.4	30" RGRCP CL IV	947.4	-	-	30" RGRCP CL IV	947.4	-	-	4'-0 0/8"	4'-0 0/8"	5'-8 0/8"	-	X
13	884234.67 544671.43	P-9	954.9	946.9	36" RGRCP CL IV	948.4	-	-	36" RGRCP CL IV	947.9	-	-	4'-0 0/8"	4'-0 0/8"	7'-2 0/8"	-	X
14	884732.48 544685.98	P-9	957.4	947.9	36" RGRCP CL IV	949.2	-	-	36" RGRCP CL IV	948.9	-	-	4'-0 0/8"	4'-0 0/8"	8'-8 0/8"	-	X
15	885030.71 544713.40	P-10	959.9	948.4	36" RGRCP CL IV	949.6	-	-	36" RGRCP CL IV	949.4	-	-	4'-0 0/8"	4'-0 0/8"	10'-8 0/8"	-	X
16	885332.13 544744.27	P-10	960.9	948.9	30" RGRCP CL IV	951.5	36" RGRCP CL IV	950.8	36" RGRCP CL IV	949.9	36" RGRCP CL IV	950.1	5'-0 0/8"	4'-0 0/8"	11'-2 0/8"	-	X
17	885390.80 544754.14	P-10	961.1	950.6	30" RGRCP CL IV	951.9	-	-	30" RGRCP CL IV	951.6	24" RGRCP CL IV	952.1	4'-0 0/8"	4'-0 0/8"	9'-8 0/8"	-	X
18	885721.97 544809.91	P-11	960.4	951.6	30" RGRCP CL IV	954.3	-	-	30" RGRCP CL IV	952.6	24" RGRCP CL IV	955.8	4'-0 0/8"	4'-0 0/8"	7'-11 5/8"	-	X
19	886460.85 544822.08	P-12	964.4	955.3	30" RGRCP CL IV	958.9	-	-	30" RGRCP CL IV	956.3	-	-	4'-0 0/8"	4'-0 0/8"	8'-3 2/8"	-	X
20	886661.65 544823.22	P-12	965.7	958.3	-	-	30" RGRCP CL IV	959.5	30" RGRCP CL IV	959.3	-	-	4'-0 0/8"	4'-0 0/8"	6'-6 6/8"	-	X
22	887169.58 544734.99	P-13	969.4	959.9	30" RGRCP CL IV	963.4	-	-	30" RGRCP CL IV	960.9	-	-	4'-0 0/8"	4'-0 0/8"	8'-8 0/8"	-	X
23	887466.61 544726.52	P-13	971.2	963.2	30" RGRCP CL IV	966.3	24" DR41 C905 PVC	964.4	30" RGRCP CL IV	964.2	-	-	4'-0 0/8"	4'-0 0/8"	7'-2 0/8"	-	X
24	887814.93 544700.84	P-14	972.5	966.4	30" RGRCP CL IV	967.6	-	-	30" RGRCP CL IV	967.4	-	-	4'-0 0/8"	4'-0 0/8"	5'-3 2/8"	-	X
25	888446.66 544667.42	P-15	976.4	968.5	30" RGRCP CL IV	969.8	-	-	30" RGRCP CL IV	969.5	-	-	4'-0 0/8"	4'-0 0/8"	7'-0 6/8"	-	X
26	889121.84 544631.70	P-16	978.0	970.6	30" RGRCP CL IV	972.7	-	-	30" RGRCP CL IV	971.6	-	-	4'-0 0/8"	4'-0 0/8"	6'-6 6/8"	-	X
27	889305.34 544637.78	P-16	978.5	972.0	-	-	-	-	30" RGRCP CL IV	973.0	30" RGRCP CL IV	973.3	4'-0 0/8"	4'-0 0/8"	5'-8 0/8"	-	X
28	887468.91 544220.84	P-19	970.6	964.1	24" RGRCP CL IV	966.1	-	-	-	-	24" DR41 C905 PVC	965.1	4'-0 0/8"	4'-0 0/8"	5'-8 0/8"	-	X
29	887923.61 544181.22	P-20	974.0	966.7	24" RGRCP CL IV	969.3	-	-	24" RGRCP CL IV	967.7	-	-	4'-0 0/8"	4'-0 0/8"	6'-5 5/8"	-	X
30	888368.44 544183.89	P-21	977.7	969.7	24" RGRCP CL IV	972.9	-	-	24" RGRCP CL IV	970.7	-	-	4'-0 0/8"	4'-0 0/8"	7'-2 0/8"	-	X
31	889107.33 544219.28	P-22	980.7	974.1	24" RGRCP CL IV	975.4	-	-	24" RGRCP CL IV	975.1	-	-	4'-0 0/8"	4'-0 0/8"	5'-9 2/8"	-	X
32	889444.25 544220.99	P-22	982.8	974.9	24" RGRCP CL IV	978.3	-	-	24" RGRCP CL IV	975.9	-	-	4'-0 0/8"	4'-0 0/8"	7'-0 6/8"	-	X
33	890095.22 544186.56	P-23	986.0	979.0	24" RGRCP CL IV	980.6	-	-	24" RGRCP CL IV	980.0	-	-	4'-0 0/8"	4'-0 0/8"	6'-2 0/8"	-	X
34	881198.67 545241.59	P-17	940.0	931.6	-	-	36" RGRCP CL IV	932.6	-	-	36" RGRCP CL IV	932.8	5'-0 0/8"	4'-0 0/8"	7'-6 6/8"	-	X

U:\181301643\Drawings\civil\lat-7\ss_1643.dwg 2/26/2020 12:03 PM By: Hart, Bryan



Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.8100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: S3_1643.DWG
Dwn. Chkd. Dsgn. MM.DD.YY
HARUBH GGB CTS 03.20.26

Permit-Seal



Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
MANHOLE SCHEDULE

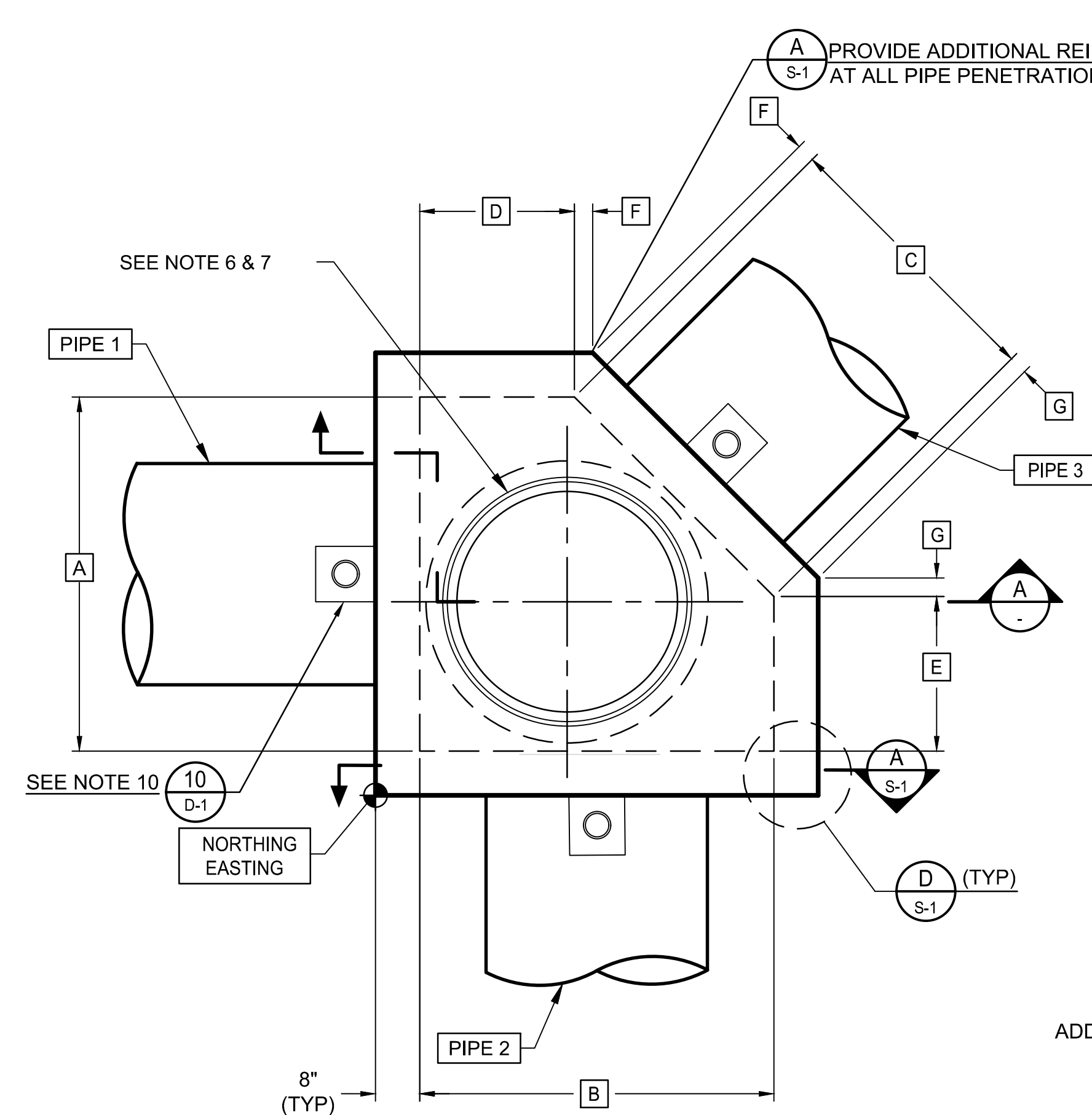
Project No. 181301643 Scale AS SHOWN
Drawing No. S-3 Sheet 47 of 61 Revision 0

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
1	879201.81 544496.07	P-1	929.40	922.30	-	-	EXIST 30" RGRCP	923.3	30" RGRCP CL IV	924.3	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'-3 2/8"	-	X
21	886705.69 544743.16	P-12	965.50	958.70	30" RGRCP CL IV	959.9	-	-	30" RGRCP CL IV	959.7	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"	5'-11 5/8"	-	X

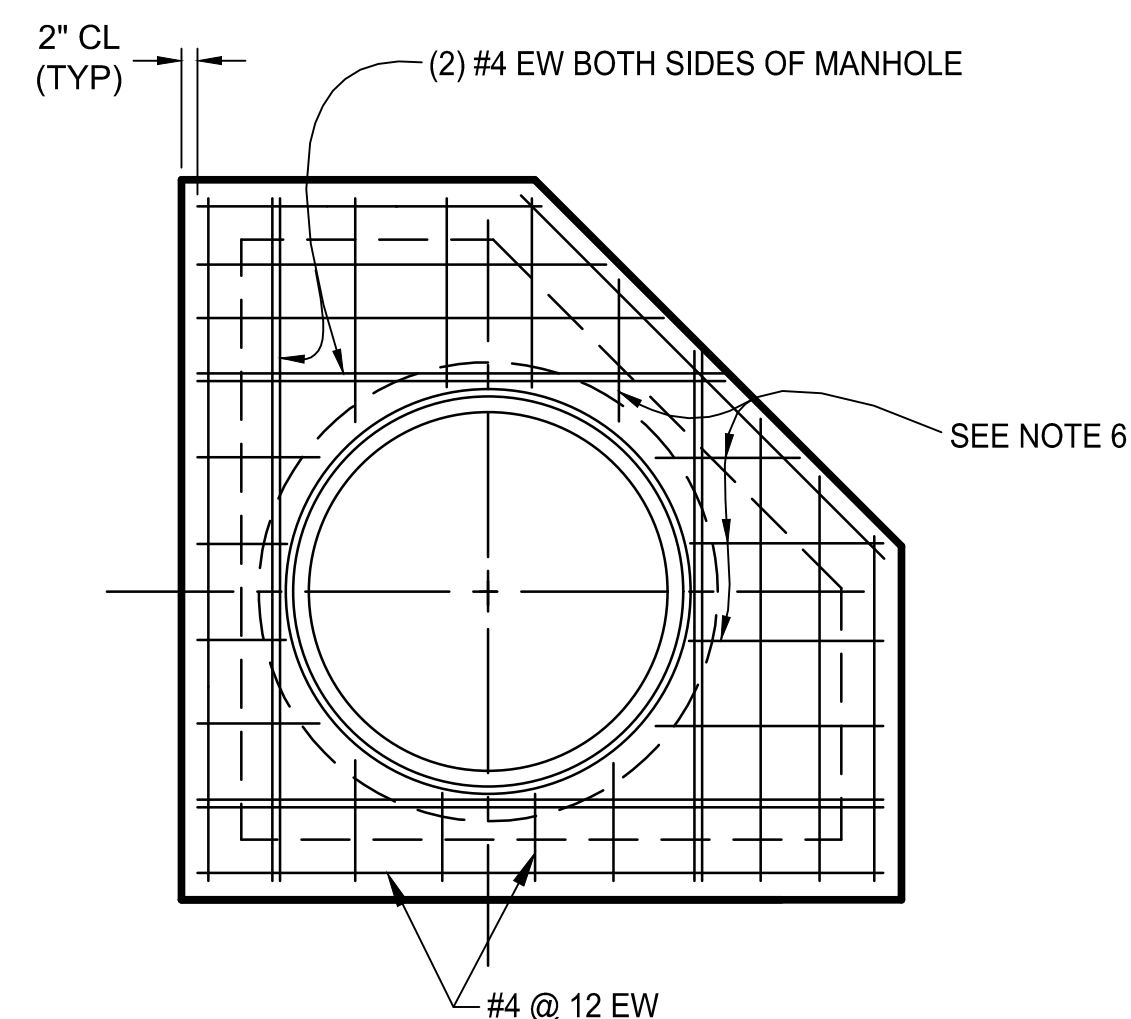
Notes

- 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 [H] AS 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.



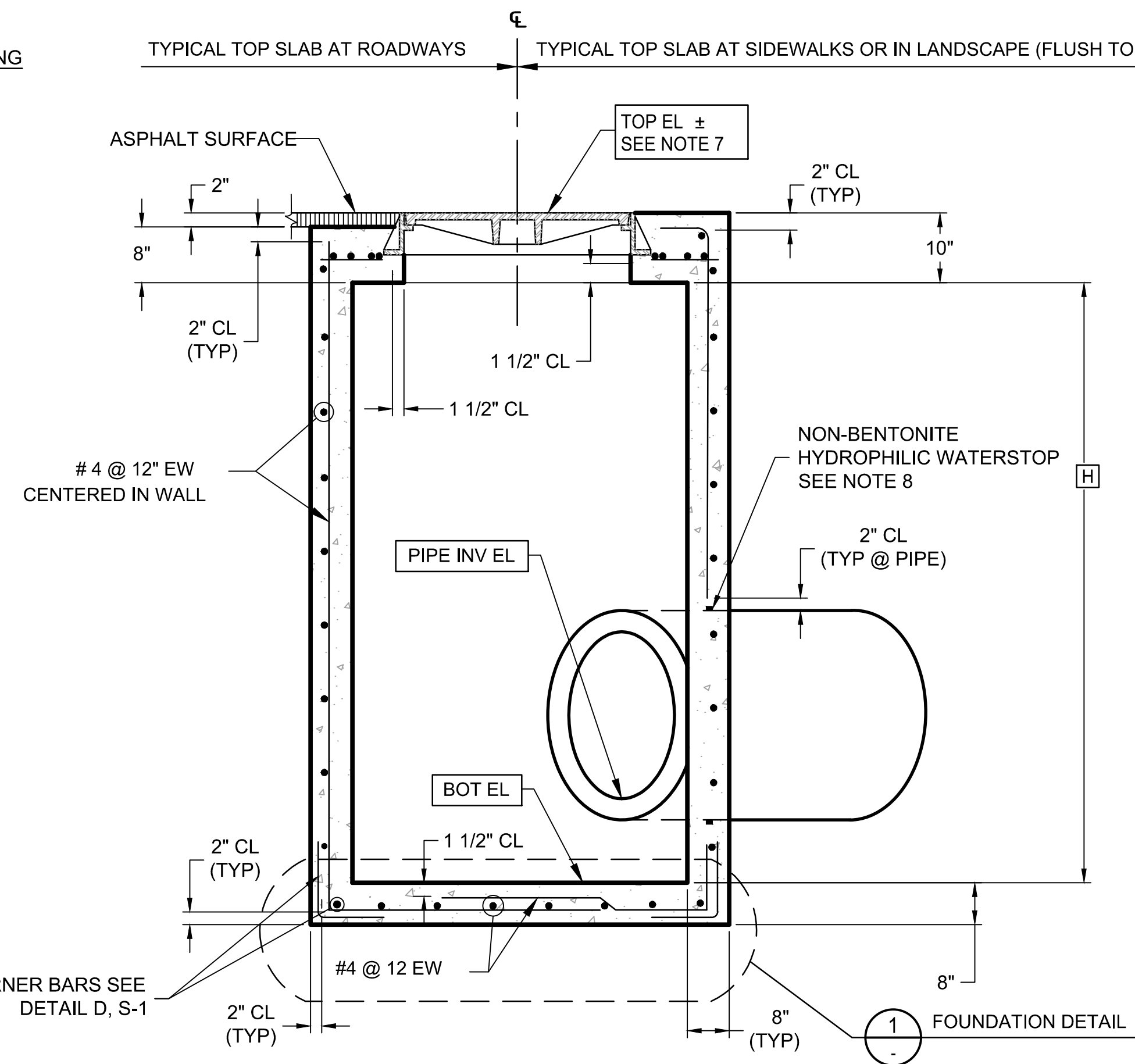
5-SIDED MANHOLE PLAN

NTS



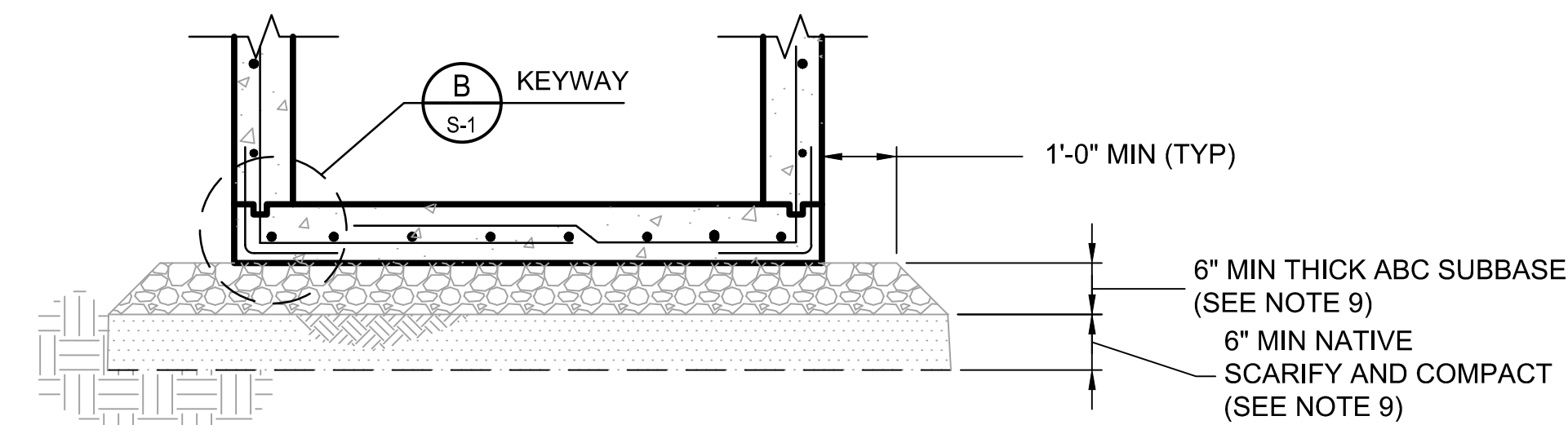
TOP SLAB REINFORCING PLAN

NTS



SECTION A

NTS



FOUNDATION DETAIL 1

NTS

Stantec
Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.6100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: S4_1643.DWG
Dwn: HARUBH GGB CTS 03.20.26
Chkd: Dsgn: MM.DD.YY

Permit-Seal



Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title

5-SIDED MANHOLE DETAILS

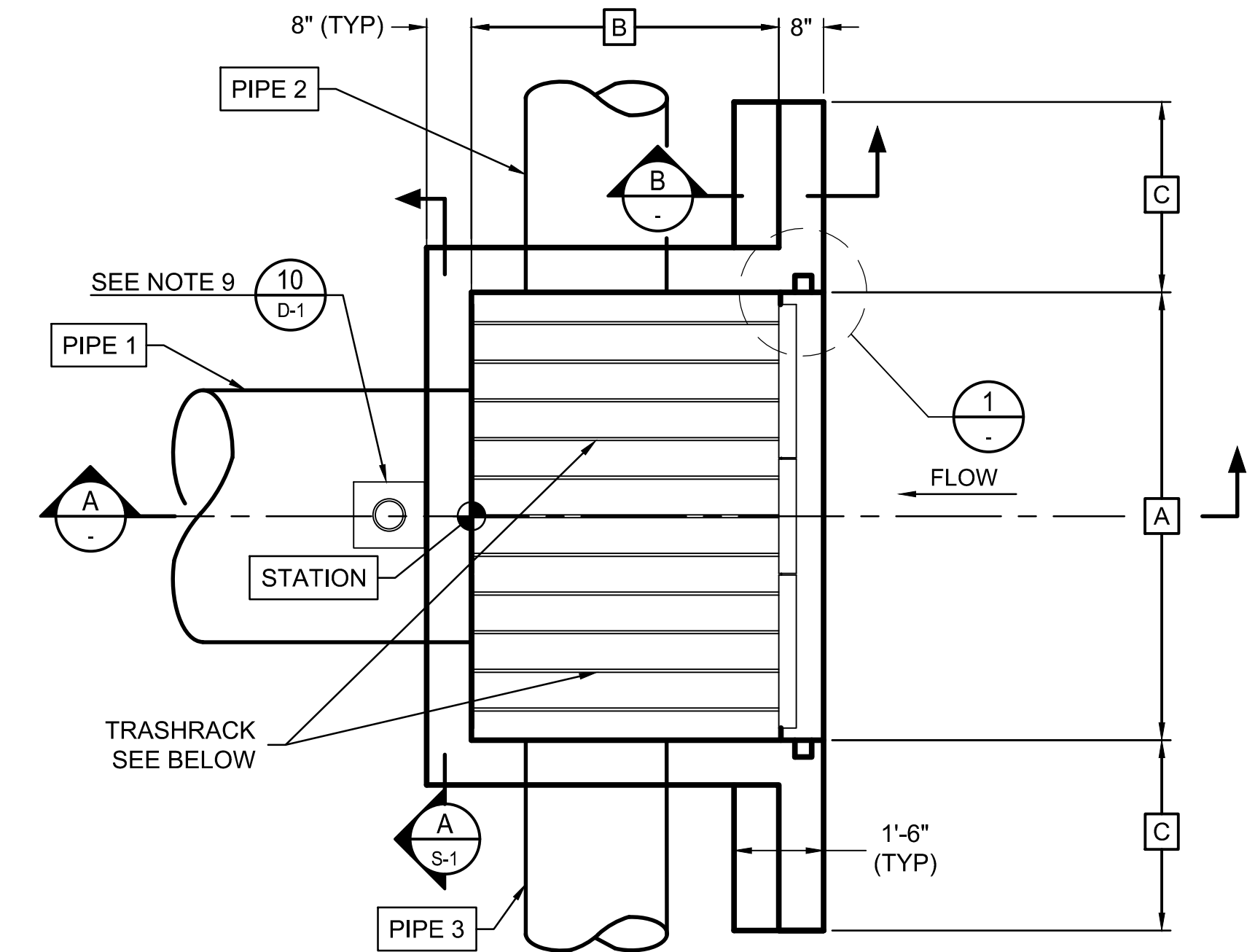
Project No. 181301643 Scale AS SHOWN

Drawing No. S-4 Sheet 48 of 61 Revision 0

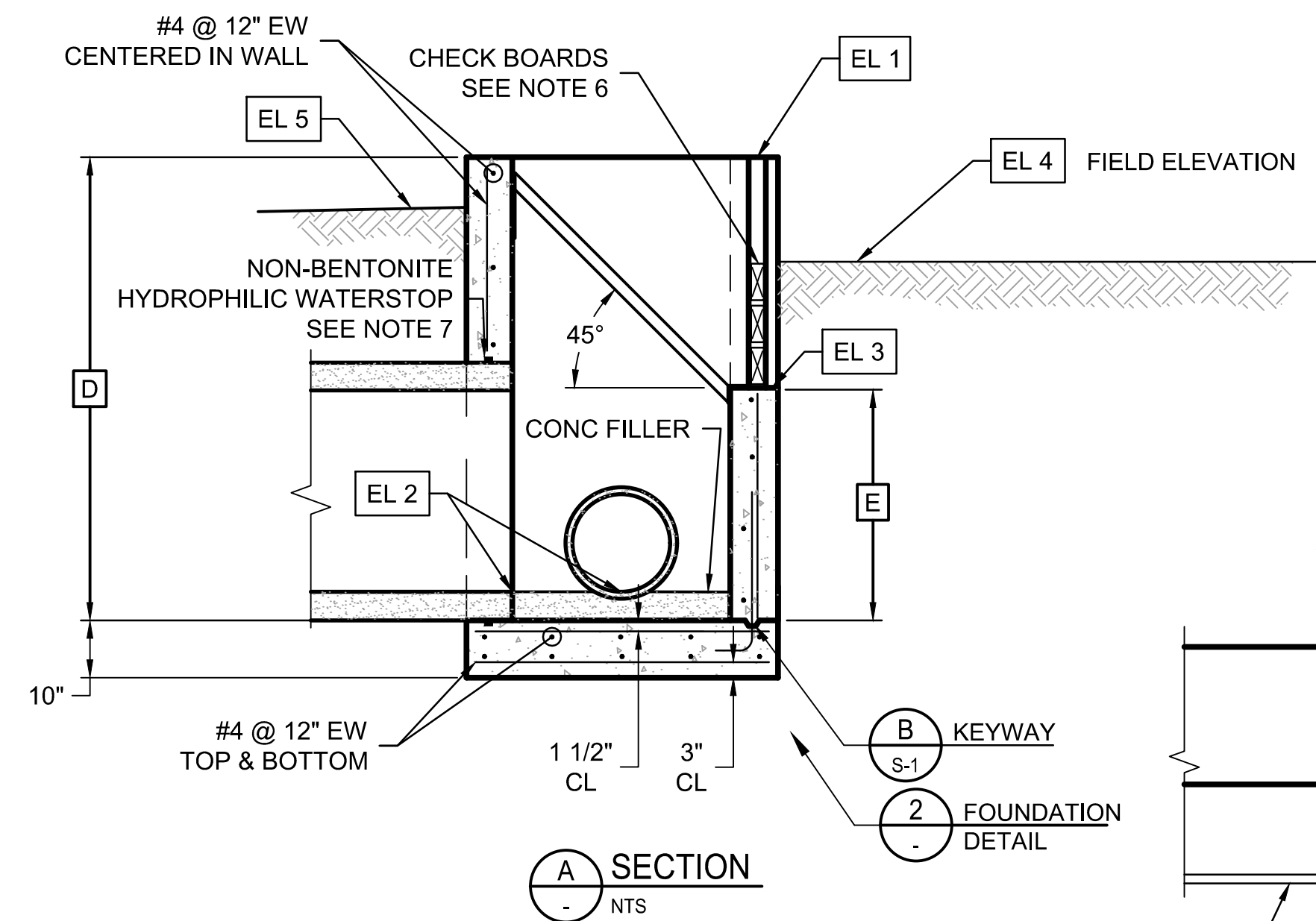
STRUCTURE SCHEDULE															TRASHRACK SCHEDULE						
FIELD DRAIN HDWL No	NORTHING EASTING	REF SHEET NO	PIPE 1	PIPE 2	PIPE 3	EL 1	EL 2	EL 3	EL 4	EL 5±	A	B	C	D	E	CHECK BOARDS		BAR LENGTH	NUMBER OF PANELS REQUIRED		
																QUANTITY	LENGTH		TYPE 1	TYPE 2	TYPE 3
1	879979.72 544635.26	SP-1	18" CL IV RGRCP	-	-	934.50	928.50	931.10	932.50	933.80	3'-4"	3'-4"	1'-6"	6'-2"	2'-9 5/8"	4	3'-8"	4'-9 7/8"	-	-	1
2	885389.94 544779.96	SP-2	24" CL IV RGRCP	-	-	959.00	952.20	955.00	956.50	958.40	3'-4"	4'-0"	2'-4"	7'-0"	3'-0 1/2"	5	3'-8"	5'-9 3/16"	-	-	1
3	889304.96 544656.64	P-16	30" CL IV RGRCP	-	-	979.30	973.40	975.90	978.10	978.70	4'-0"	3'-4"	2'-4"	6'-2"	2'-9 1/2"	7	4'-4"	4'-9 7/8"	1	1	-

Notes

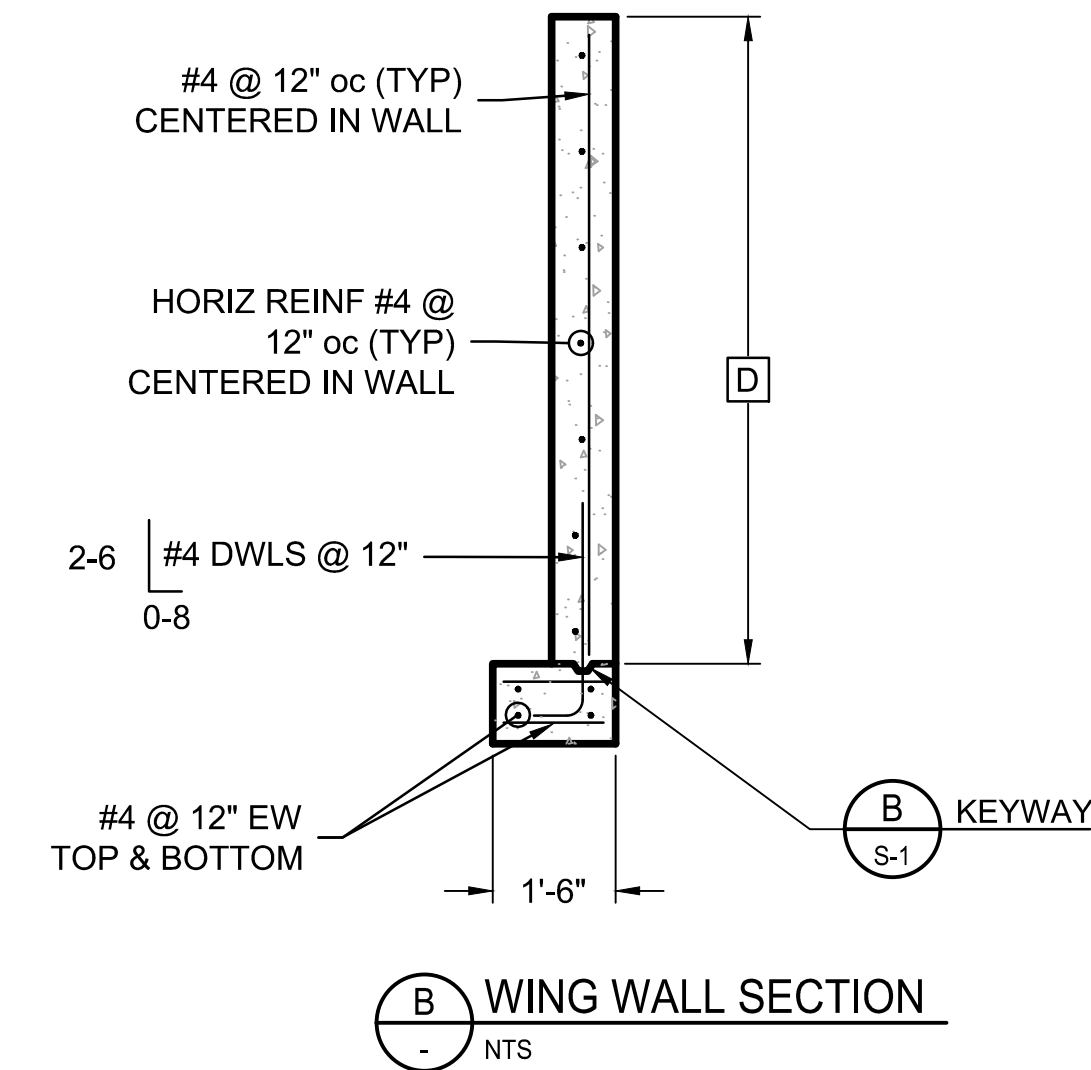
- SEE PLAN AND PROFILE DRAWING(S) FOR ORIENTATION OF HEADWALL(S).
- ALL STRUCTURAL CONCRETE SHALL BE CLASS AA (4,000 PSI) PER MAG SPECIFICATION SECTION 725.
- REINFORCING STEEL TO BE ASTM A615 GRADE 60.
- CONCRETE FILLER TO MATCH INVERT ELEVATION AT [EL 2] AND MATCH SLOPE OF PIPE.
- CHAMFER EDGES OF PERMANENTLY EXPOSED CONC SURFACES WITH A 45° BEVEL, 3/4" X 3/4".
- PROVIDE LUMBER CHECK BOARDS (2"X6" REDWOOD, WITH NO KNOTS), SEE SCHEDULE FOR CUT LENGTH AND QUANTITY.
- 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 SUB-BASE SHALL BE 95% OF MAX DENSITY PER ASTM D698 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 [EL 3] SEE DETAIL 10, DWG D-1.



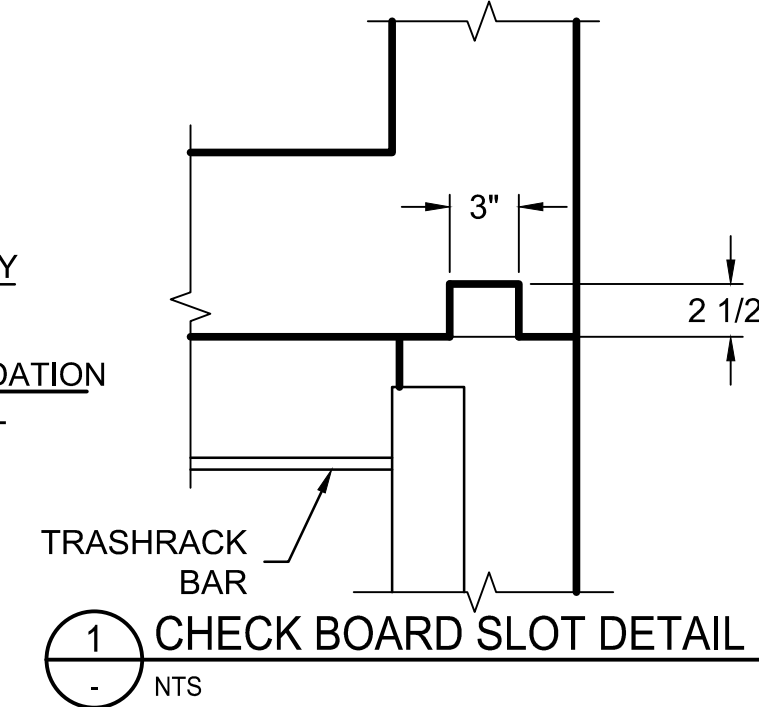
FIELD DRAIN HEADWALL PLAN
NTS



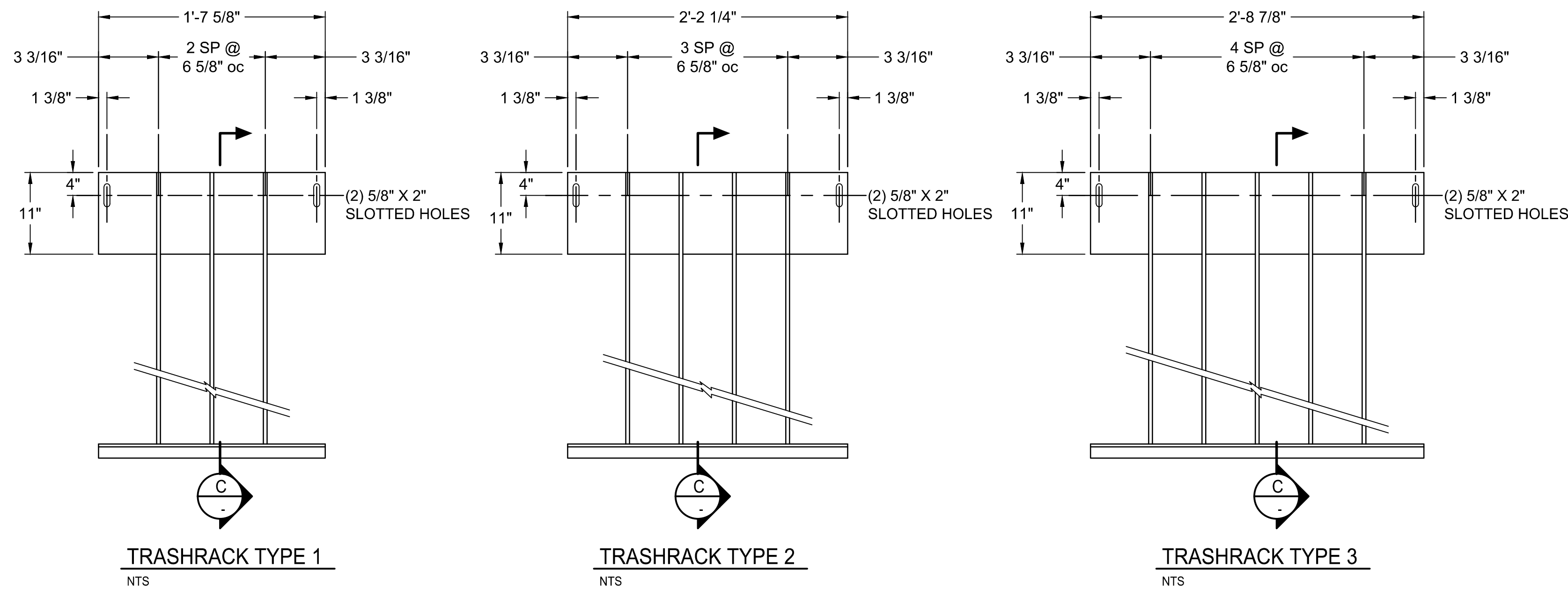
SECTION
A
NTS



WING WALL SECTION
B
NTS



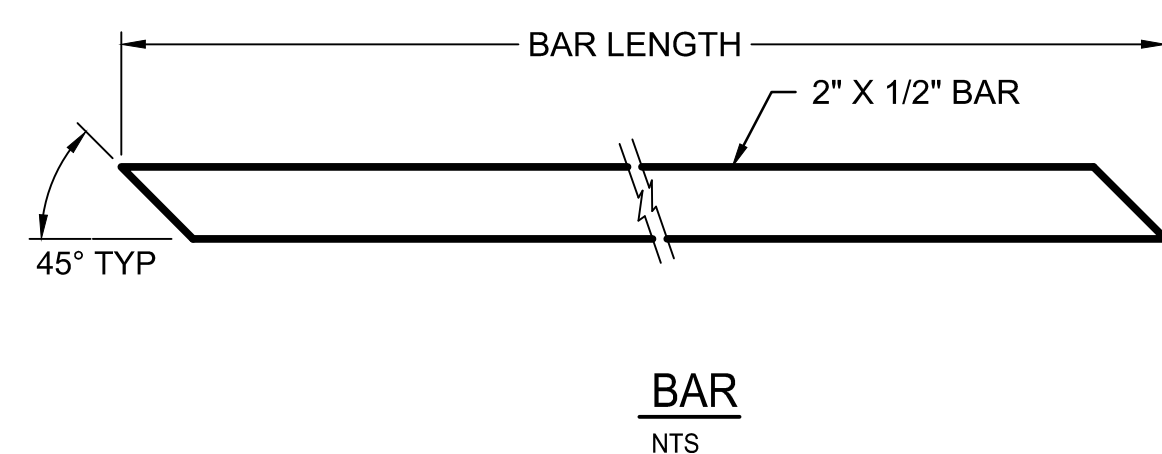
CHECK BOARD SLOT DETAIL
1
NTS



TRASHRACK TYPE 1
NTS

TRASHRACK TYPE 2
NTS

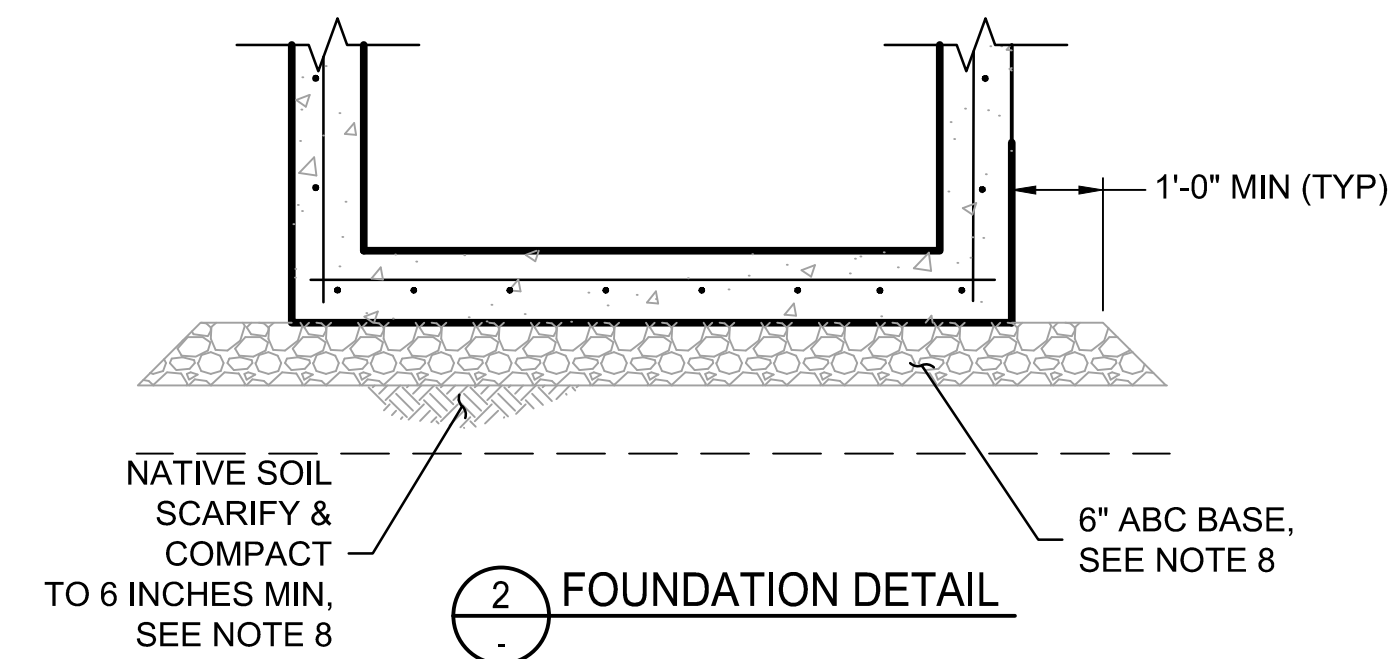
TRASHRACK TYPE 3
NTS



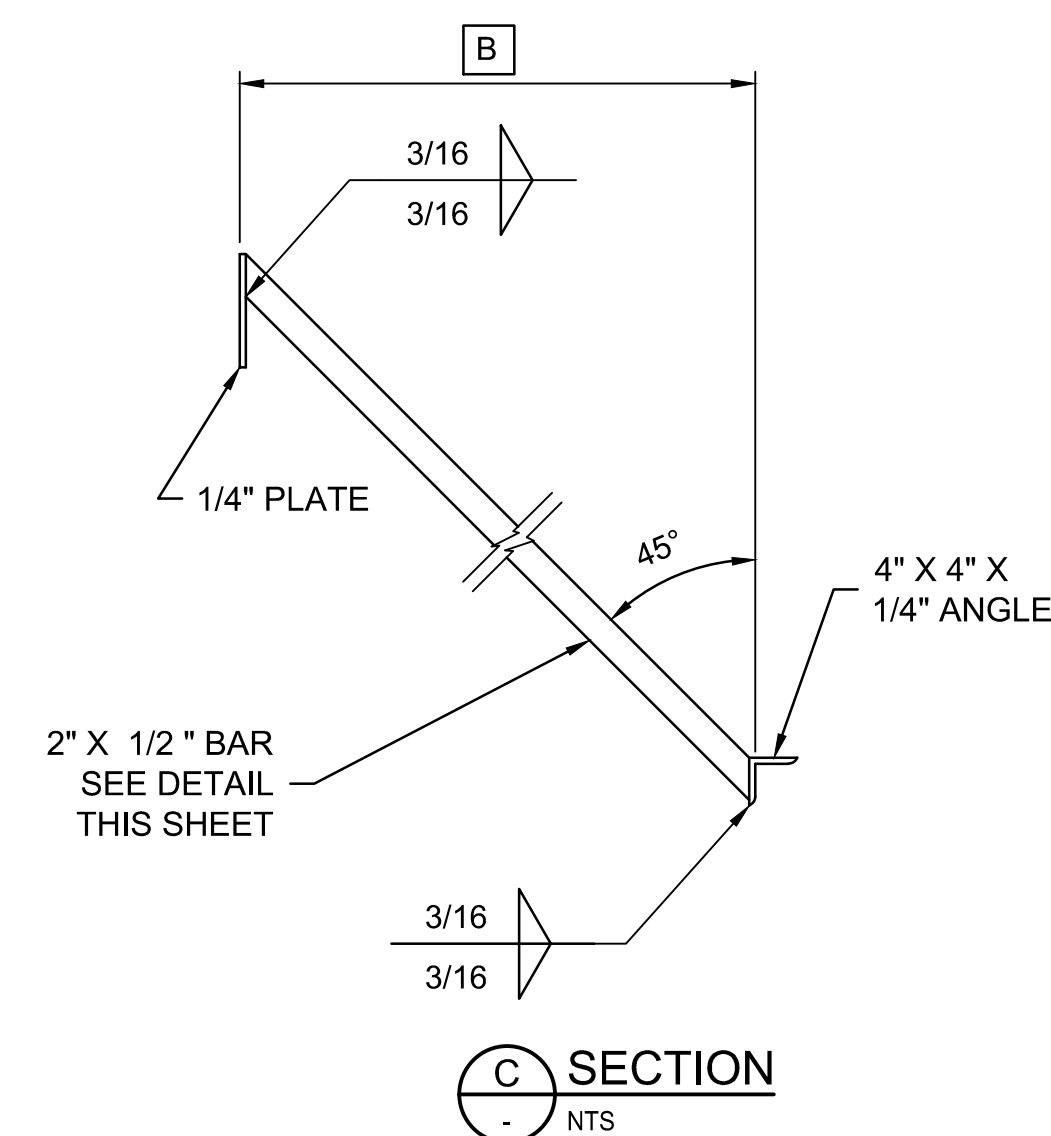
BAR
NTS

Trashrack Notes

- UNLESS OTHERWISE SPECIFIED, TOLERANCE DIMENSIONS SHALL BE ± 1/16".
- ALL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED.
- SANDBLAST TO NEAR WHITE, HOT DIP GALVANIZE 5-7 MILS AFTER FABRICATION.
- TRASHRACK PANEL(S) MAY BE INSTALLED IN ANY ORDER MAINTAINING THE 6 5/8" SPACING BETWEEN BARS OF ADJACENT PANELS AND EQUAL DISTANCE FROM EACH SIDE OF THE HEADWALL.
- INSTALL TRASHRACK PANEL(S) USING 1/2" DIA X 3 3/4" STAINLESS STEEL EXPANSION ANCHORS USING THE SLOTTED HOLES AS A TEMPLATE. EMBEDMENT OF THE ANCHOR SHALL BE TO THE FULL LENGTH OF THE ANCHOR.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE TRASHRACK PANEL(S) FOR REVIEW AND APPROVAL BY THE ENGINEER. SHOP DRAWINGS ARE NOT REQUIRED FOR PANELS MANUFACTURED BY SRP MECHANICAL CONSTRUCTION AND MAINTENANCE DIVISION.



FOUNDATION DETAIL
2
NTS



SECTION
C
NTS

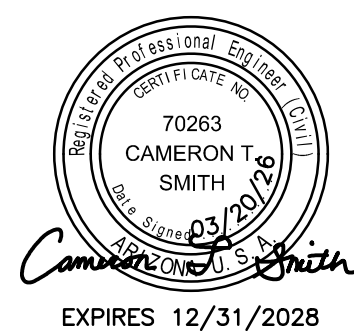


Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.8100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: SS_1643.DWG HAR/UBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal



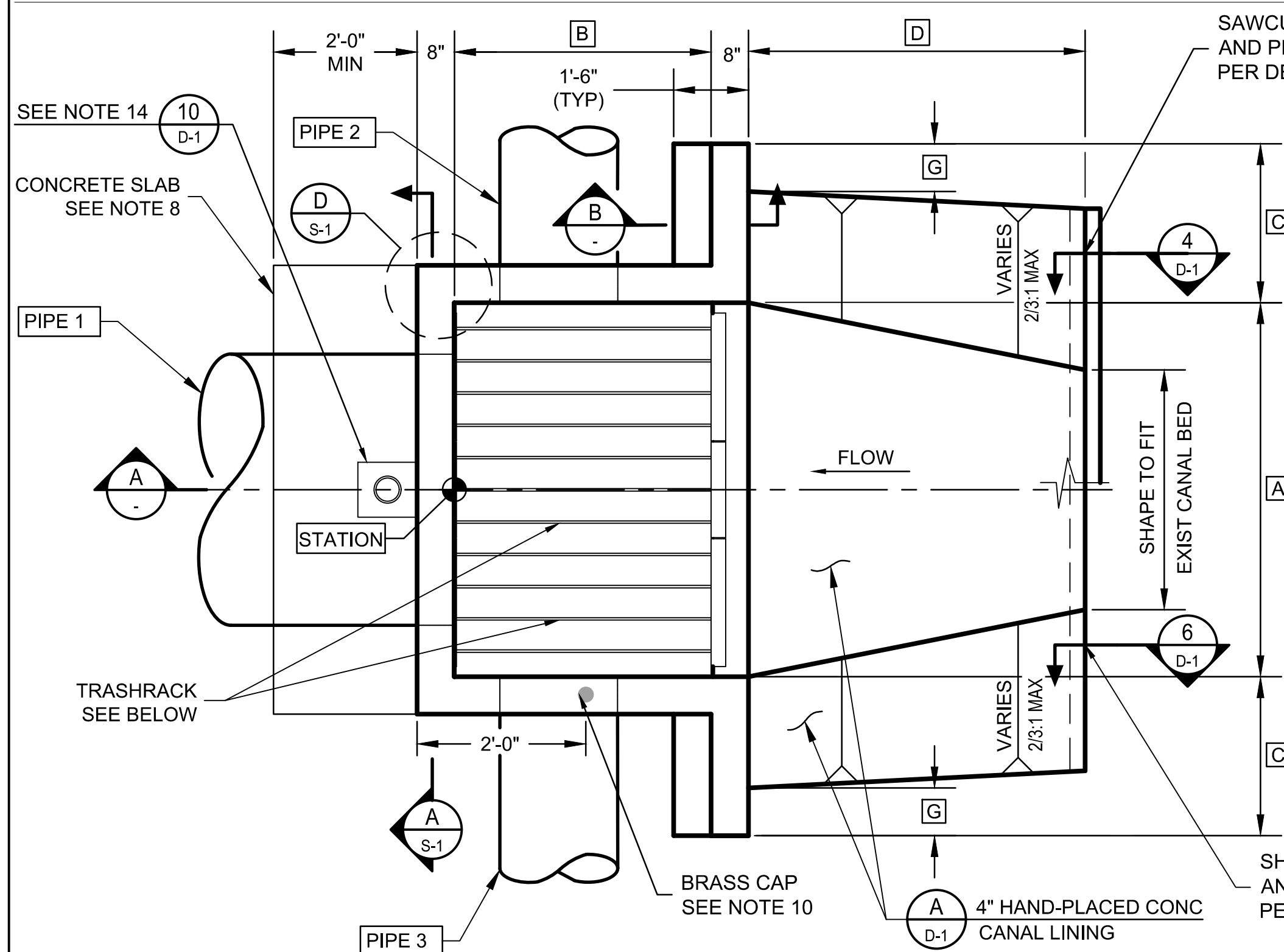
Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
FIELD DRAIN
HEADWALL DETAILS

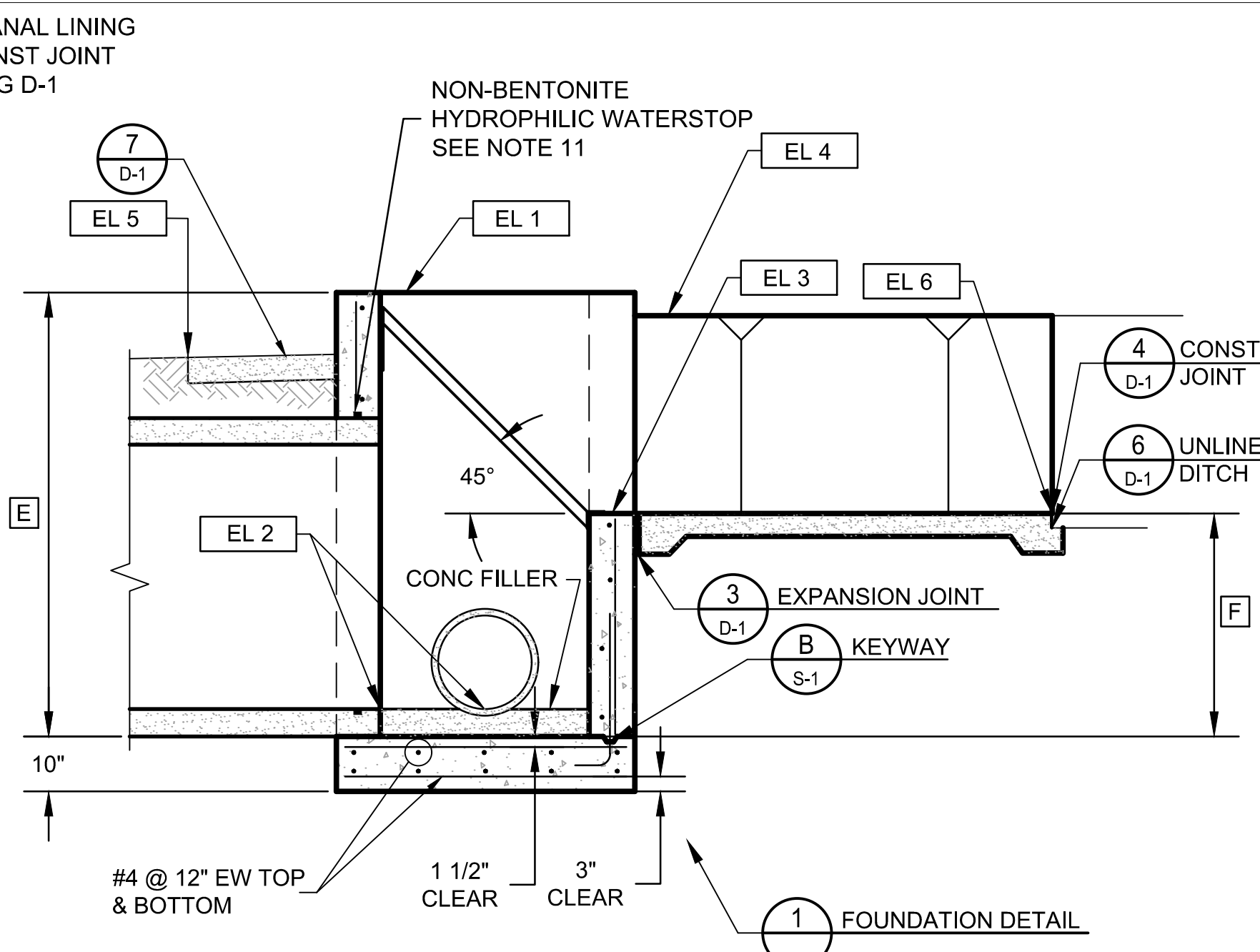
Project No. 181301643 Scale AS SHOWN
Drawing No. S-5 Sheet 49 of 61 Revision 0

STRUCTURE SCHEDULE

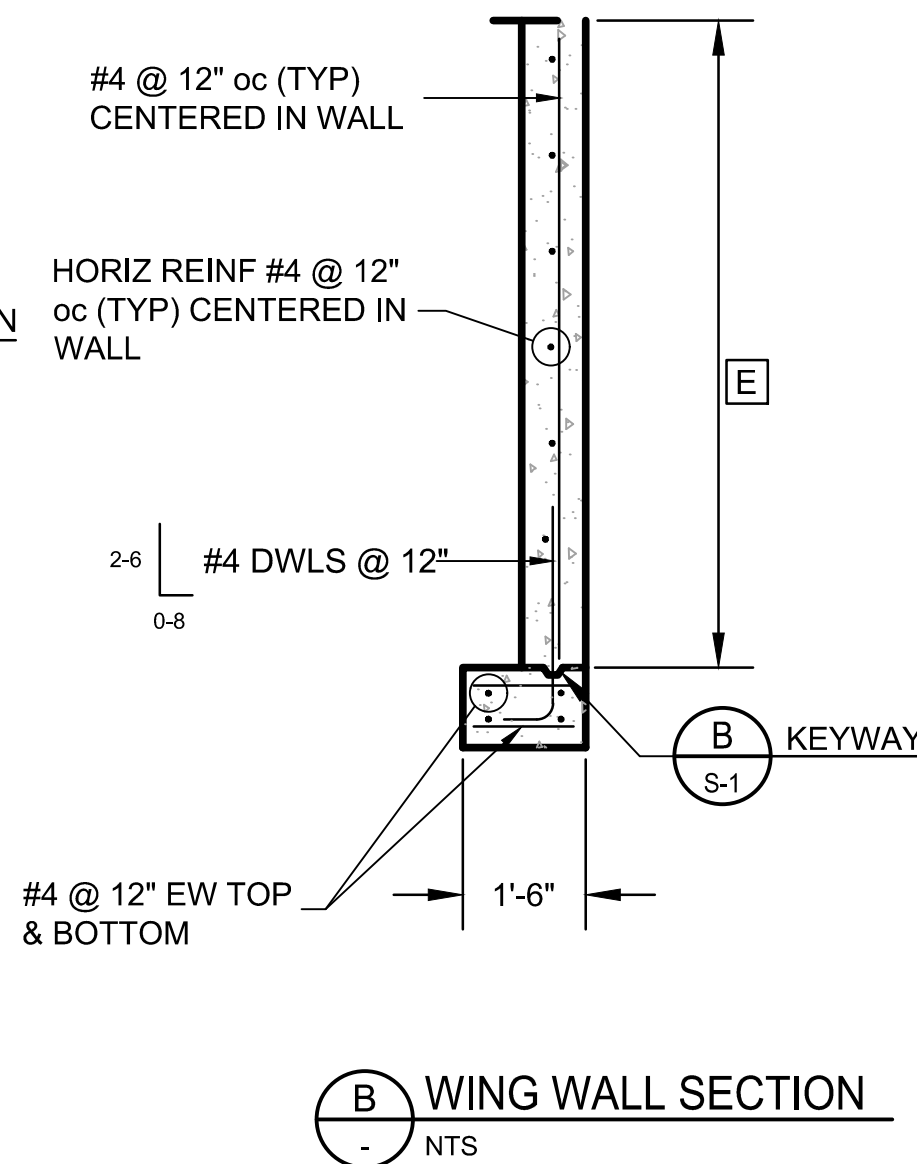
HWL NO	NORTHING EASTING	REF DWG NO	PIPE 1	PIPE 2	PIPE 3	EL 1	EL 2	EL 3	EL 4	EL 5±	EL 6	A	B	C	D	E	F	G	BAR LENGTH	NUMBER OF PANELS REQUIRED		
																				TYPE 1	TYPE 2	TYPE 3
2	879941.32 544633.50	SP-1	24" CL IV RGRCP	18" CL IV RGRCP	-	934.20	928.40	930.80	933.40	933.50	931.60	3'-4"	3'-4"	2'-0"	10'-0"	6'-0"	2'-7 3/4"	0'-1 3/4"	4'-9 7/8"	-	-	1
3	885719.80 544837.33	SP-2	24" CL IV RGRCP	-	-	961.70	955.90	957.40	960.00	961.00	957.40	3'-4"	3'-4"	4'-0"	10'-0"	6'-0"	1'-9"	2'-1 1/8"	4'-9 7/8"	-	-	1



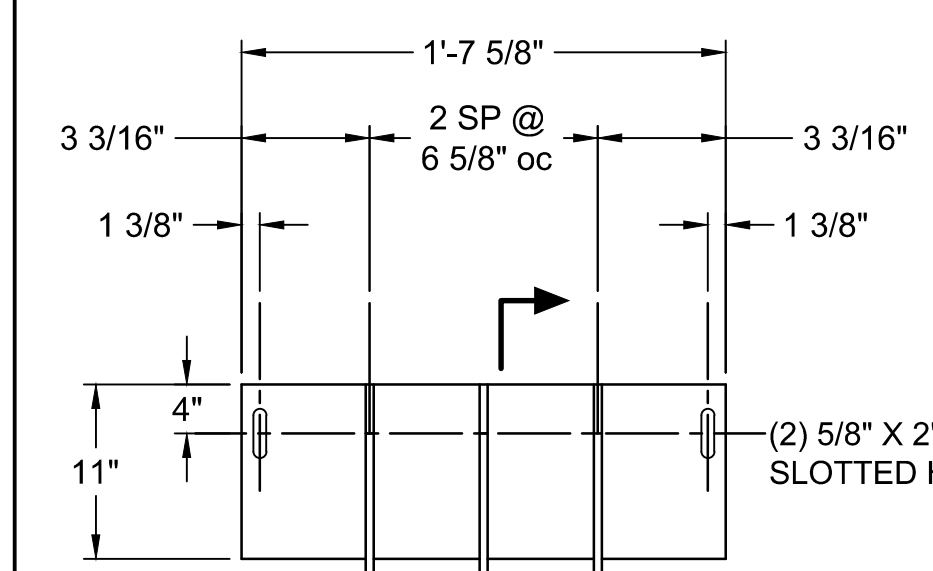
HEADWALL/TRASHRACK PLAN
NTS



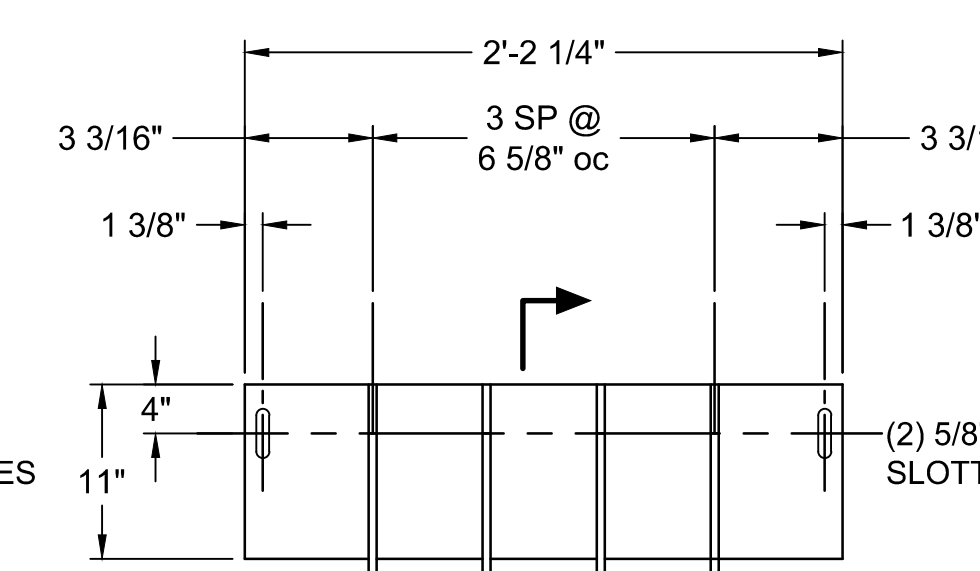
SECTION A
NTS



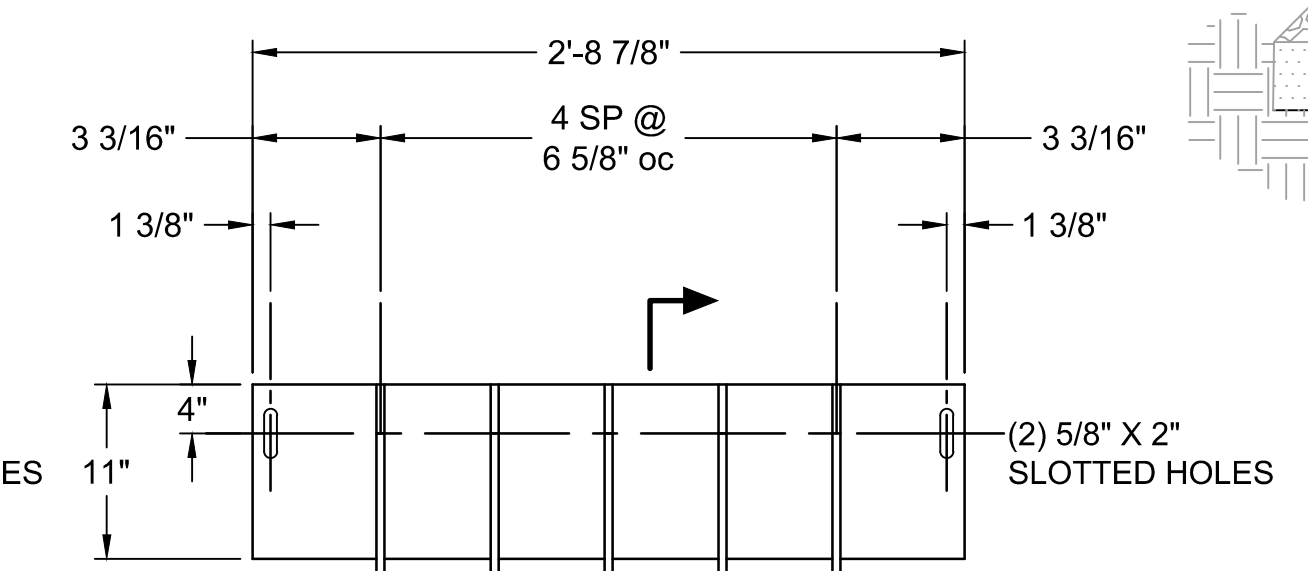
WING WALL SECTION B
NTS



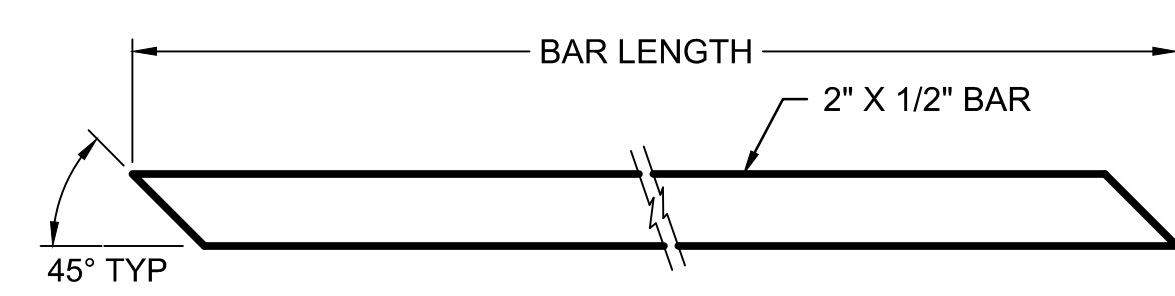
TRASHRACK TYPE 1
NTS



TRASHRACK TYPE 2
NTS

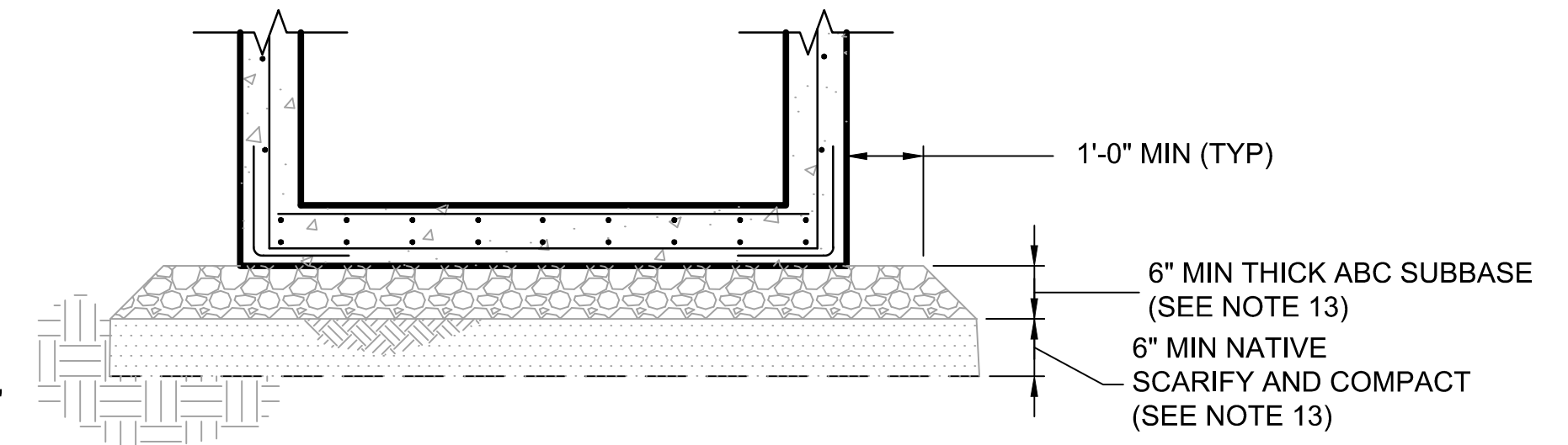


TRASHRACK TYPE 3
NTS



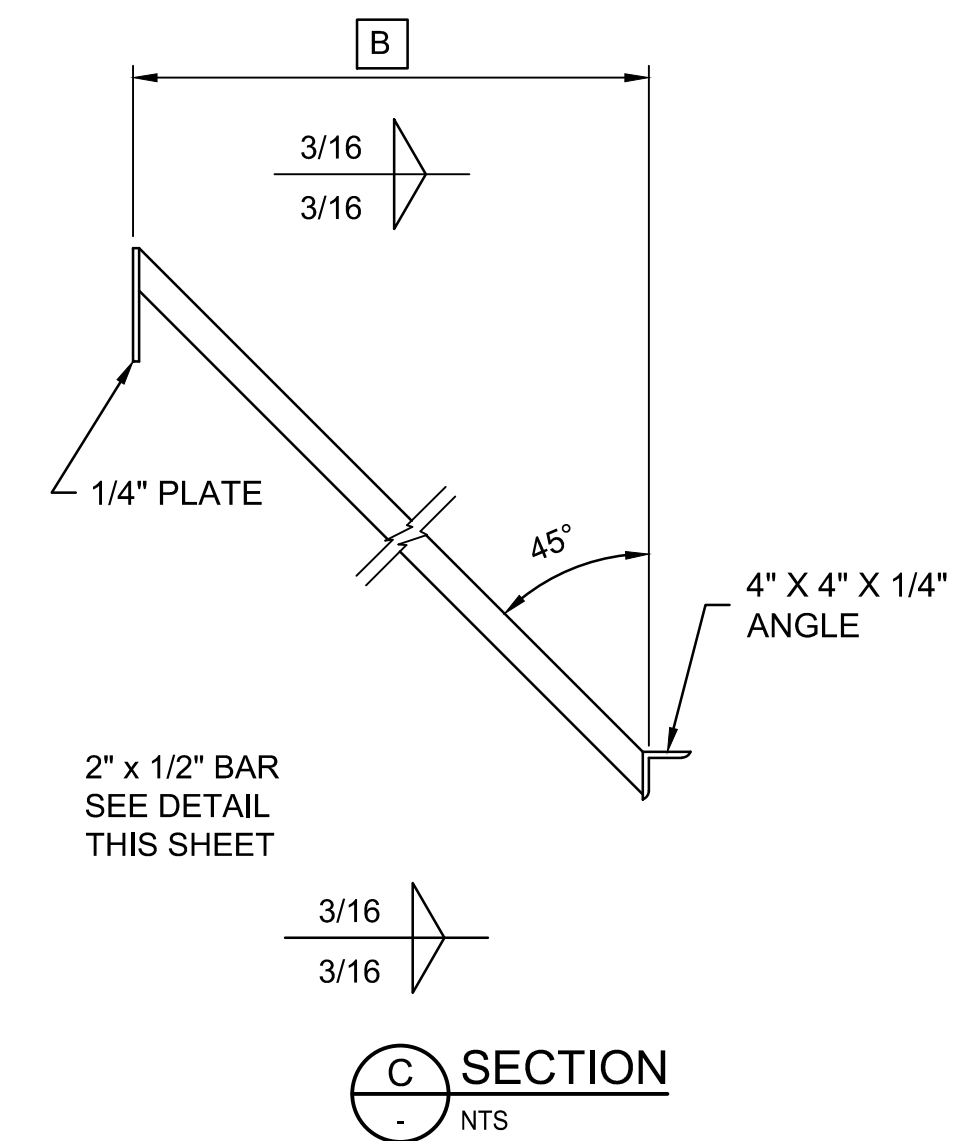
BAR
NTS

- Trashrack Notes
- UNLESS OTHERWISE SPECIFIED, TOLERANCE DIMENSIONS SHALL BE ± 1/16".
 - ALL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED.
 - SANDBLAST TO NEAR WHITE, HOT DIP GALVANIZE 5-7 MILS AFTER FABRICATION.
 - TRASHRACK PANEL(S) MAY BE INSTALLED IN ANY ORDER MAINTAINING THE 6 5/8" SPACING BETWEEN BARS OF ADJACENT PANELS AND EQUAL DISTANCE FROM EACH SIDE OF THE HEADWALL.
 - INSTALL TRASHRACK PANEL(S) USING 1/2" DIA X 3 3/4" STAINLESS STEEL EXPANSION ANCHORS USING THE SLOTTED HOLES AS A TEMPLATE. EMBEDMENT OF THE ANCHOR SHALL BE TO THE FULL LENGTH OF THE ANCHOR.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE TRASHRACK PANEL(S) FOR REVIEW AND APPROVAL BY THE ENGINEER. SHOP DRAWINGS ARE NOT REQUIRED FOR PANELS MANUFACTURED BY SRP MECHANICAL CONSTRUCTION AND MAINTENANCE DIVISION.



FOUNDATION DETAIL 1
NTS

14. INSTALL TRACER WIRE BOX WHEN PIPE RUNS EXCEED 50' OR AT THE DIRECTION OF THE CONSTRUCTION OBSERVER. FLUSH WITH EL 3. SEE DETAIL 10, DWG D-1.



SECTION C
NTS

- Notes
- SEE PLAN AND PROFILE DRAWING(S) FOR ORIENTATION OF HEADWALL(S).
 - ALL STRUCTURAL CONCRETE SHALL BE CLASS AA (4,000 PSI) PER MAG SPECIFICATION SECTION 725.
 - REINFORCING STEEL TO BE ASTM A615 GRADE 60.
 - CONCRETE FILLER TO MATCH INVERT ELEVATION AT EL 2 AND MATCH SLOPE OF PIPE.
 - MATCH HAND-PLACED LINING TRANSITION TO WIDTH, ELEVATION & SLOPE OF EXIST DITCH.
 - SHAPE AND COMPACT TRANSITION SUBGRADE FROM HEADWALL TO 36" PAST UNDISTURBED UNLINED DITCH OR TO UPSTREAM END OF TRANSITION, WHICHEVER IS GREATER.
 - EXTEND TRANSITION LINING FROM EL 4 TO EXIST DITCH OR CONCRETE LINING BY LENGTH D AND MATCH FINISH WITH EXIST SLIPFORM LINING (IF APPLICABLE).
 - CONCRETE SLAB - 4" THICK, MIN 24" WIDE. LENGTH TO MATCH HEADWALL, BROOM FINISH. SLOPE SLAB TO DRAIN AWAY FROM HEADWALL. TOP OF SLAB TO BE LEVEL WITH ADJACENT FINISHED GRADE.
 - CHAMFER EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES WITH A 45° BEVEL, 3/4" X 3/4".
 - 3" DIA BRASS CAP SURVEY MARKER, SOKKIA PART NUMBER 8134-08 OR APPROVED EQUIVALENT. CENTERED IN WALL. INSTALL PER MFG INSTRUCTIONS.
 - 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 SUB-BASE SHALL BE 95% OF MAX DENSITY PER ASTM D698 AT +2% TO -4% OF OPTIMUM MOISTURE CONTENT.

Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: S6_1643.DWG	HARUBH	GGB	CTS	03.20.26
Dwn:	Chkd:	Dsgn:	MM.DD.YY	

Permit-Seal
70263 CAMERON T SMITH
EXPIRES 12/31/2028
Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
HEADWALL / TRASHRACK DETAILS

Project No. 181301643	Scale AS SHOWN
Drawing No. S-6	Sheet 50 of 61
Revision 0	

U:\181301643\Drawings\civil\lat-7\ss_1643.dwg, 2/26/2026 12:03 PM By: Hart, Bryan

Concrete Notes

- ALL STRUCTURAL CONCRETE SHALL BE CLASS AA (4,000 PSI) PER MAG SPECIFICATION SECTION 725.
- REINFORCING STEEL BARS SHALL BE ASTM A615, GRADE 60.
- CHAMFER EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES WITH A 45° BEVEL, 3/4" X 3/4". SEE DWG S-1, DETAIL.

General Notes

- PIPE TO BE CENTERED HORIZONTALLY IN WALL.
- MINIMUM COMPACTION FOR ABC BASE AND NATIVE SUB-BASE SHALL BE 95% OF MAX DENSITY PER ASTM D698 AT +2% TO -4% OF OPTIMUM MOISTURE CONTENT.
- INSTALL TRACER WIRE ACCESS VAULT WHEN PIPE RUNS EXCEED 50' OR AT THE DIRECTION OF THE CONSTRUCTION OBSERVER. FLUSH WITH FINISH GRADE. SEE DETAIL 10, DWG D-1.
- 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).

Cover & Guide Notes

- ALL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE SPECIFIED, TOLERANCE DIMENSIONS SHALL BE ± 1/32".
- AFTER FABRICATION, ALL ASSEMBLIES SHALL BE SANDBLASTED TO NEAR WHITE AND COATED TO A THICKNESS OF 5-7 MILS WITH ZINC METAL SPRAY OR HOT DIP GALVANIZED.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW & APPROVAL BY ENGINEER.
- METAL GRATING SHALL BE McNICHOLS EXPANDED METAL GRATING, CARBON STEEL, HRPO, 3.14# GRATING (STANDARD/RAISED), 60% OPEN AREA OR APPROVED EQUIVALENT.



Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.6100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: S7_1643.DWG
Dwn: HARUBH
Chkd: GGB
Dsgn: CTS
MM.DD.YY: 03.20.26

Permit-Seal
Expires 12/31/2028



Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW

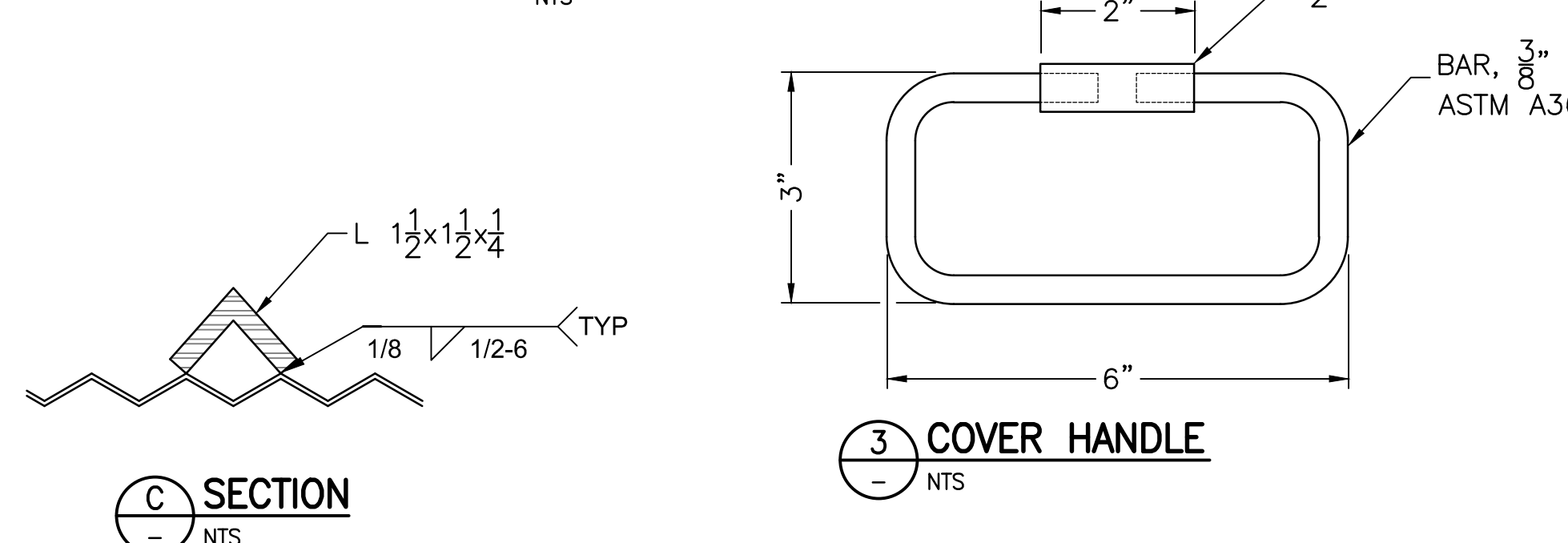
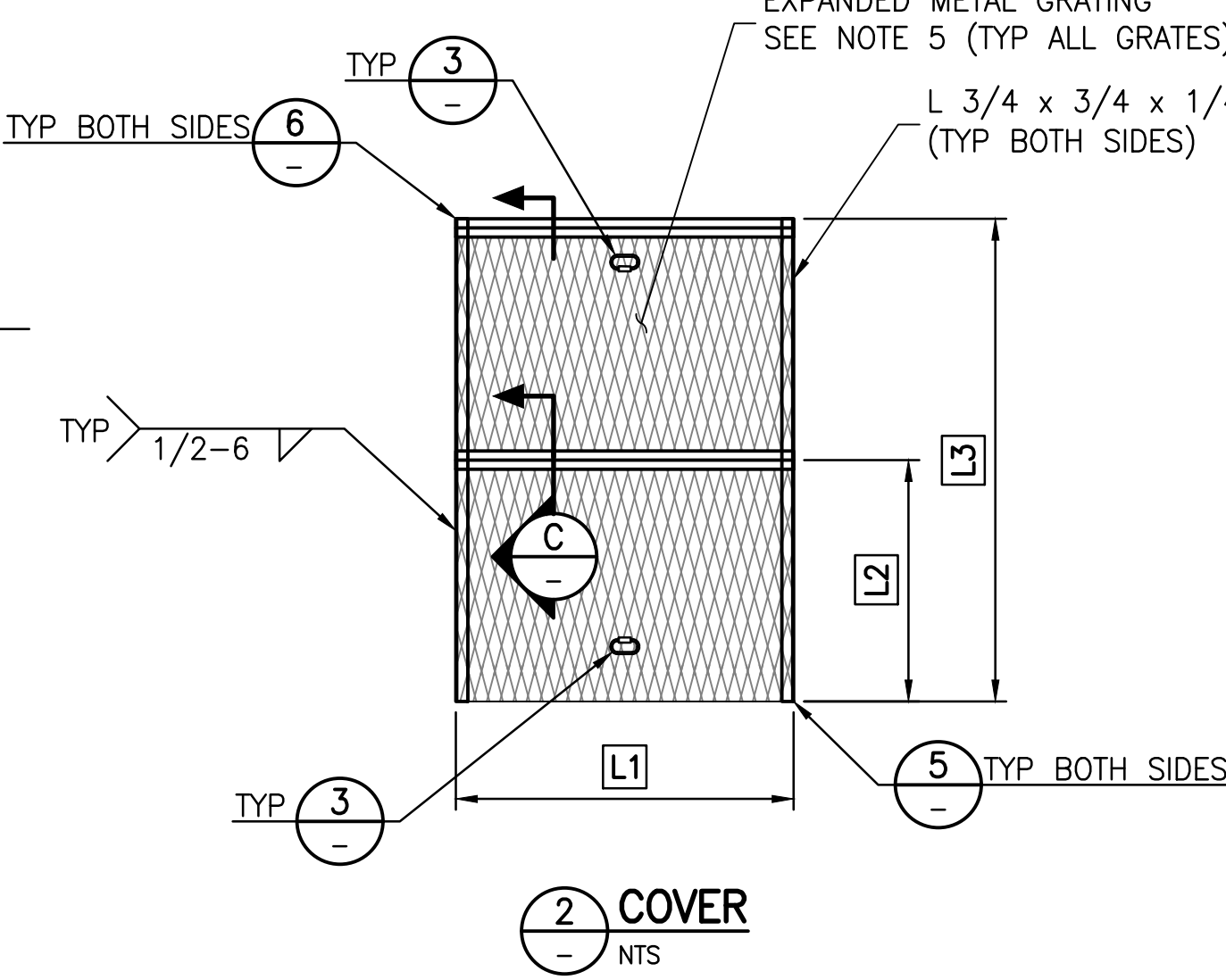
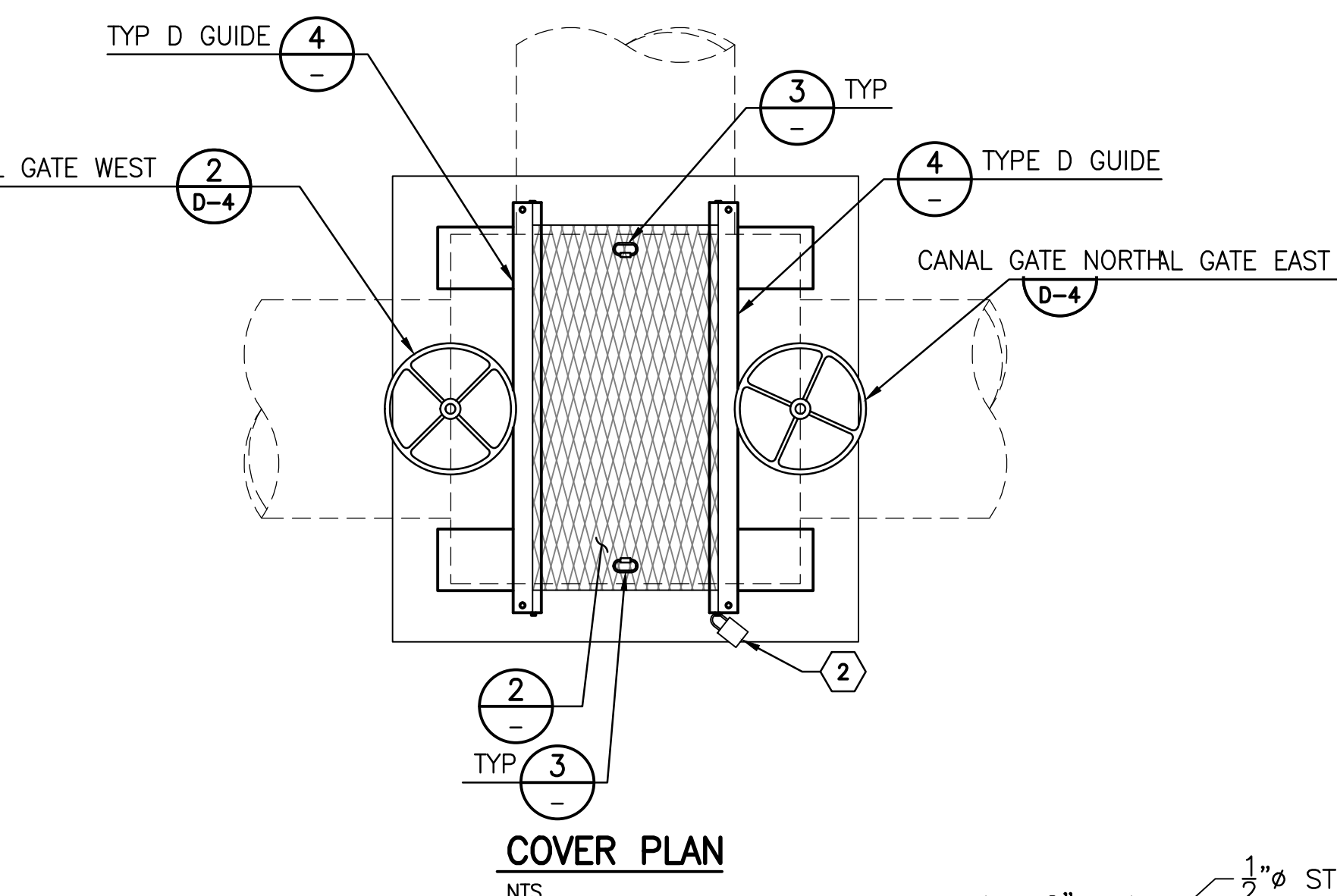
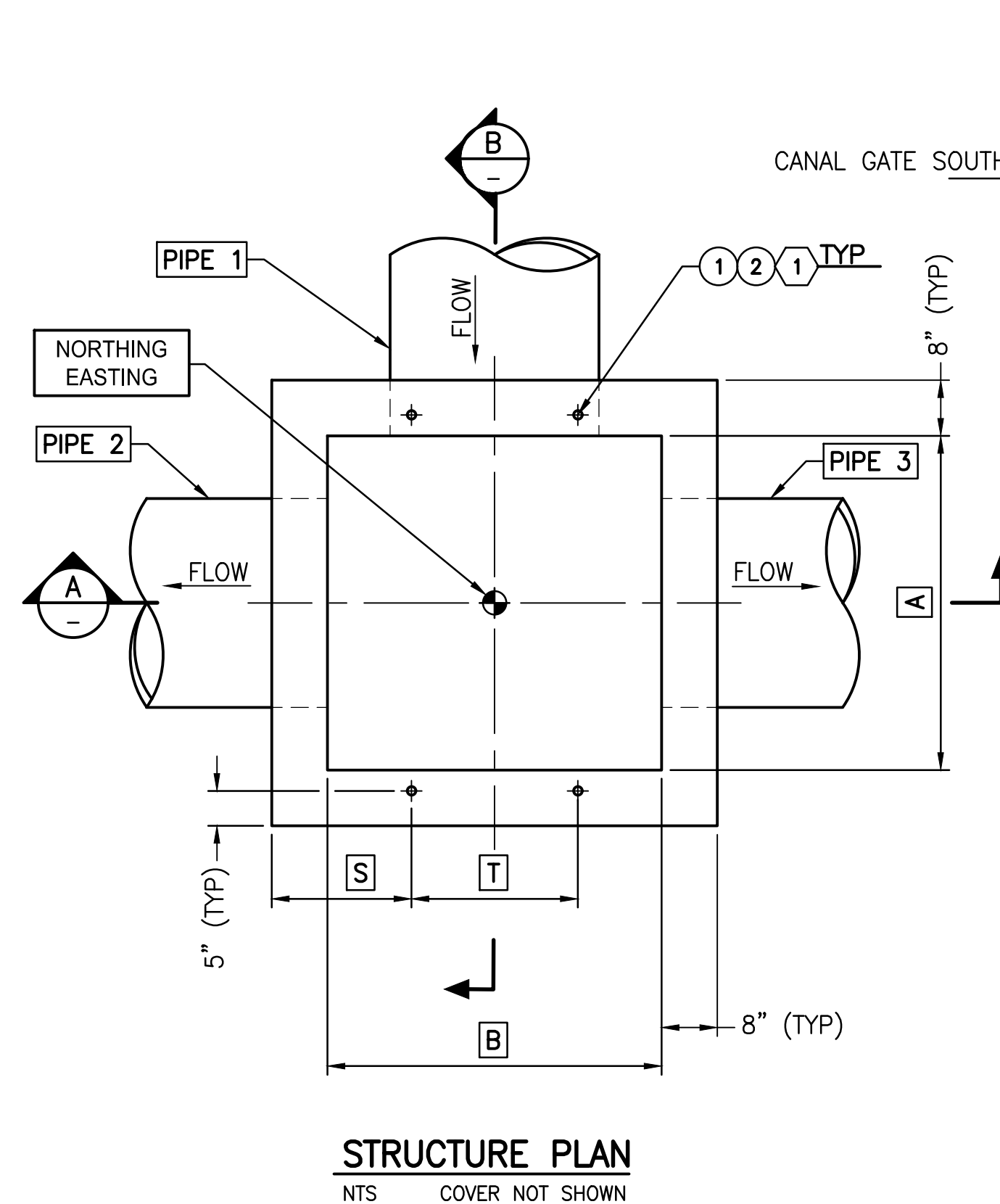
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
DIVISION STRUCTURE

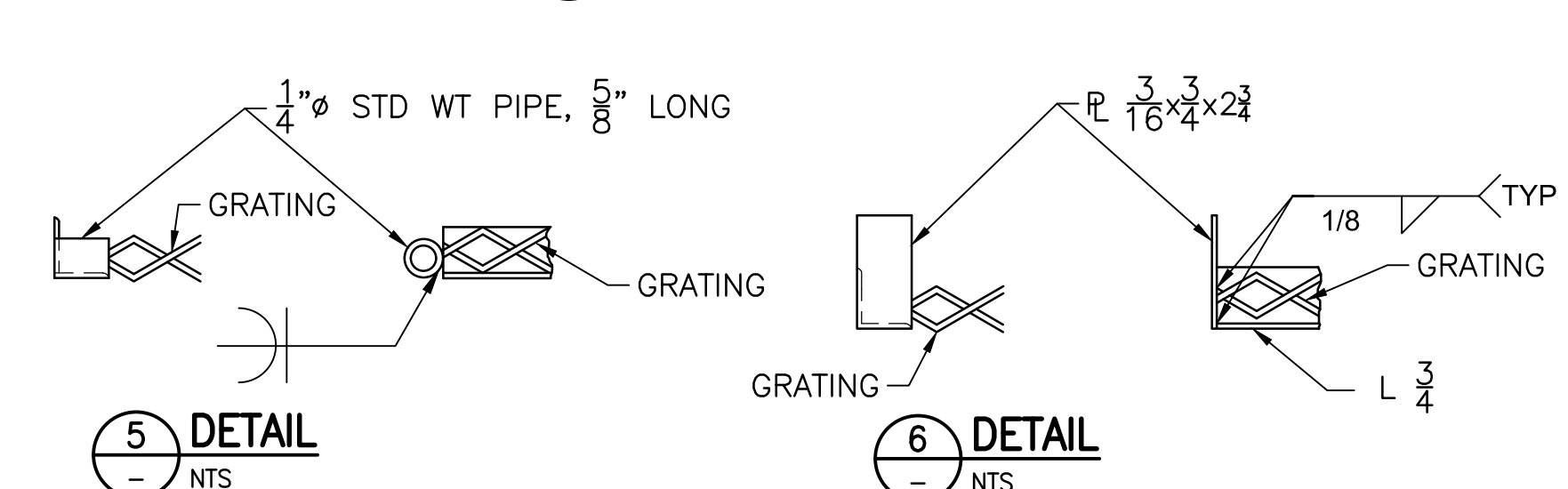
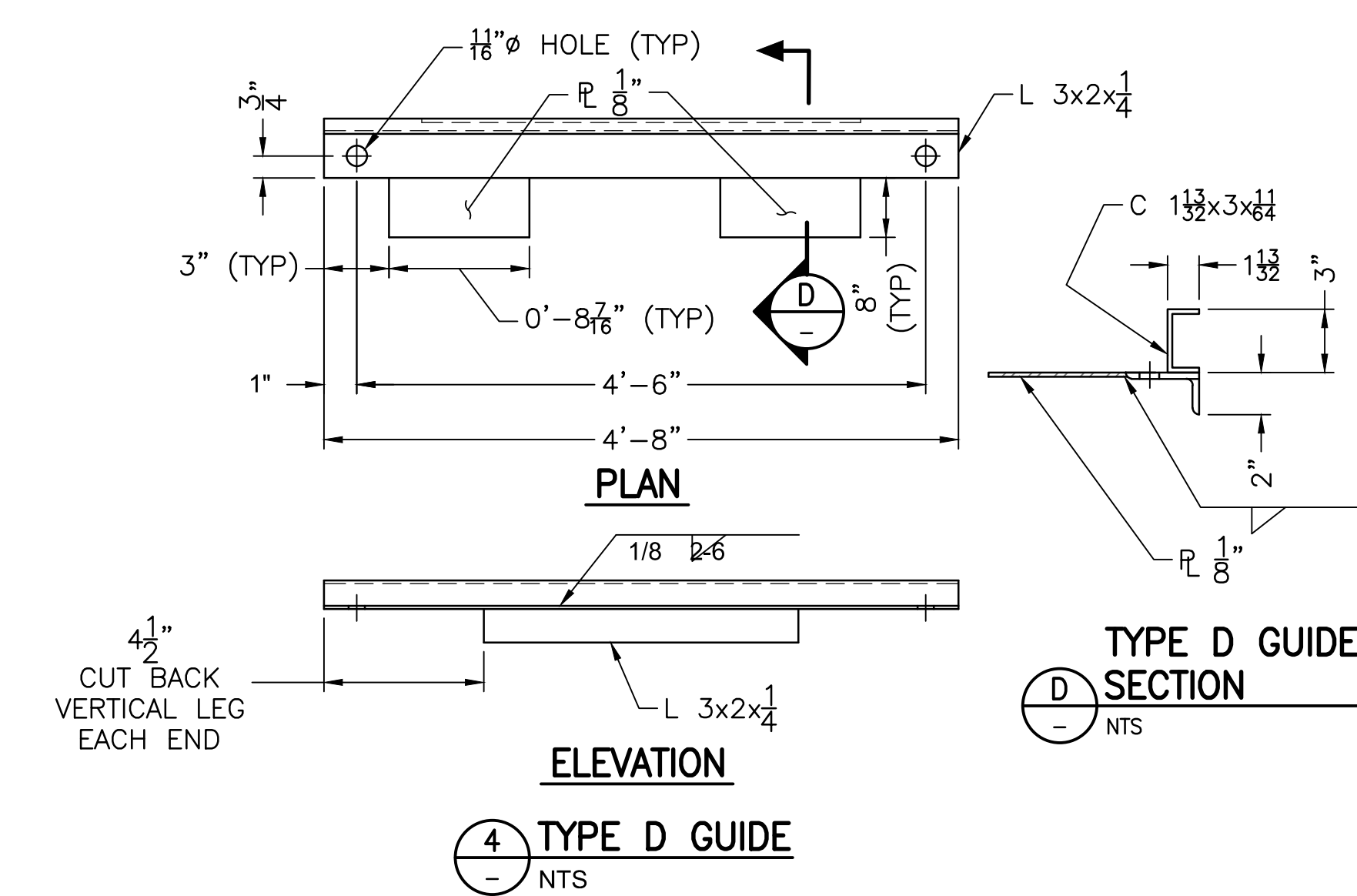
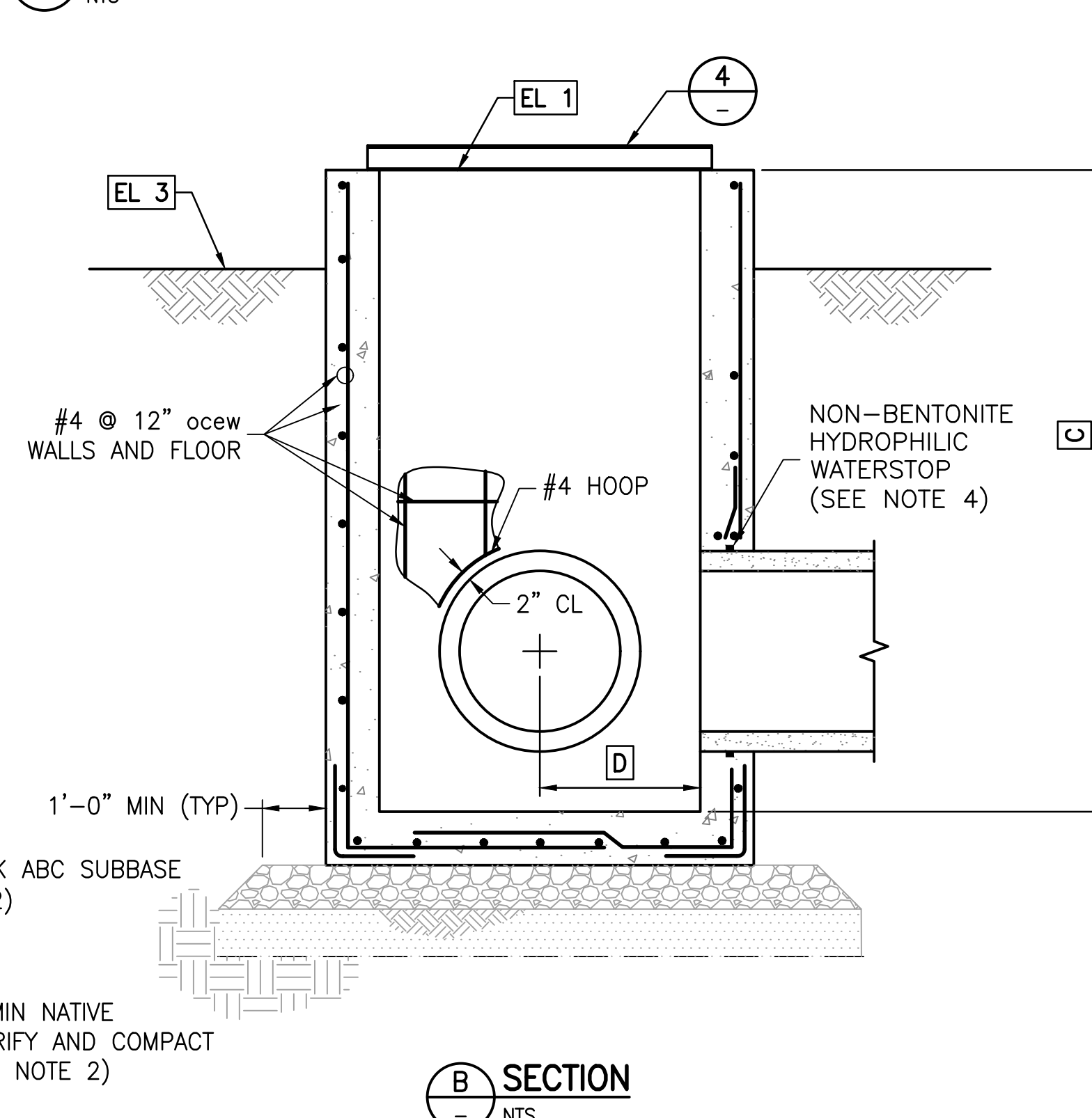
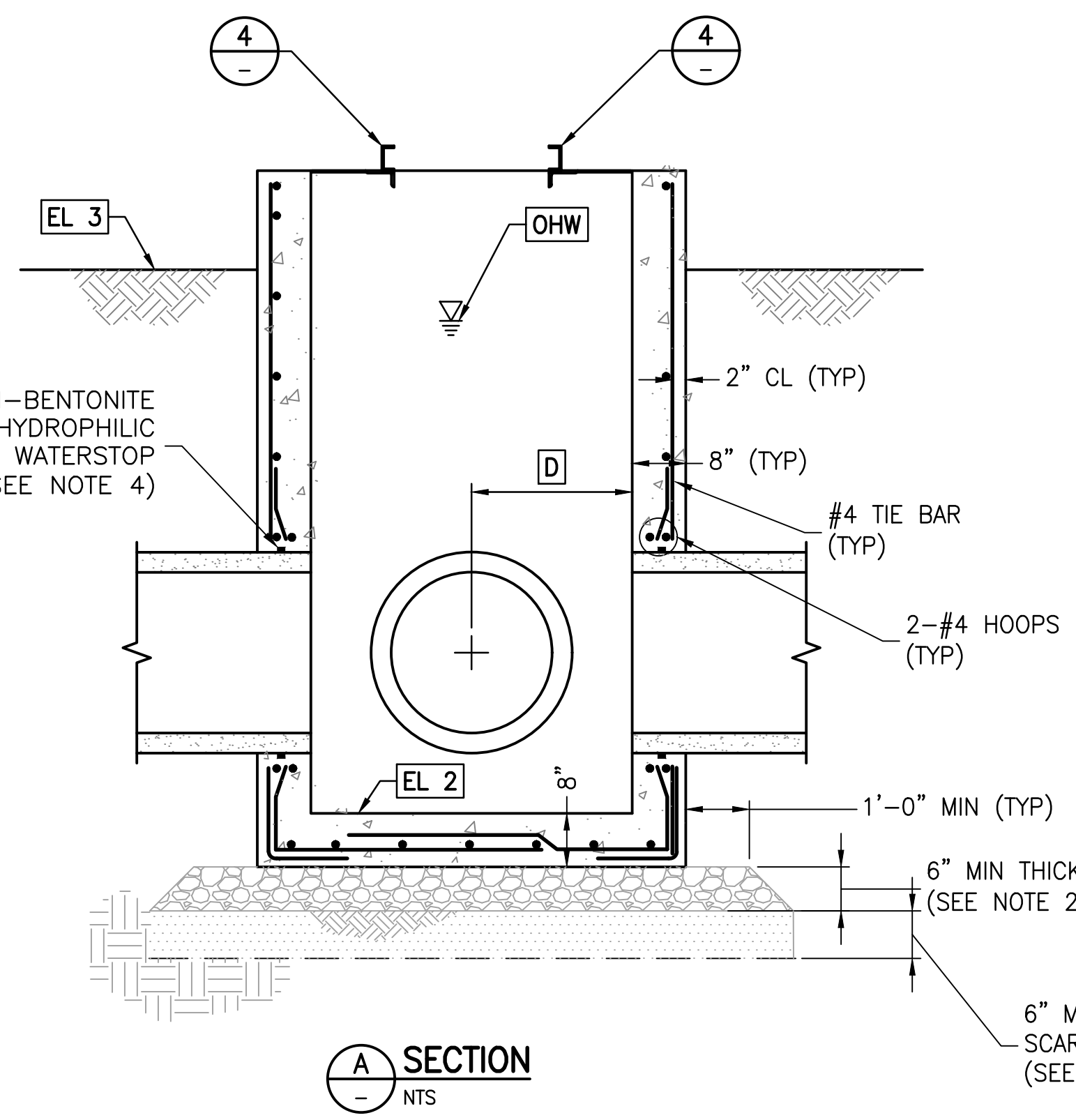
Project No. 181301643
Scale AS SHOWN

Drawing No. S-7
Sheet 51 of 61
Revision 0

STRUCTURE SCHEDULE								COVER AND GUIDE			BOLT SPACING		PIPES								
STRUCTURE	NORTHING EASTING	REF DWG NO	STRUCTURE DIMENSIONS				OHW	EL 1	EL 2	EL 3	DIMENSIONS			PIPE 1		PIPE 2		PIPE 3			
			A	B	C	D					L1	L2	L3	S	T	TYPE	INV EL	TYPE	INV EL	TYPE	INV EL
1	883847.99 544699.35	SP-1	4'-0"	4'-0"	7'-2 3/8"	2'-0"	950.50	952.50	945.30	950.20	2'-6 1/2"	2'-4 1/2"	4'-9"	1'-3 1/2"	2'-9"	24" CL IV RGRCP	946.40	18" CL IV RGRCP	946.30	18" CL IV RGRCP	946.30



- Construction Notes
- DRILL HOLE 1/4" WIDER THAN THE DIAMETER OF THE ANCHOR. APPLY HILTI HIT RE 500 EPOXY OR APPROVED EQUIVALENT PER MANUFACTURER'S INSTRUCTIONS.
 - INSTALL 1/2" DIA EXPANSION ANCHORS USING THE APPROPRIATE COVER GUIDE, MANTEL, OR FIBERGLASS TRANSITION AS A TEMPLATE. EMBEDMENT OF ANCHORS SHALL BE TO THE FULL LENGTH OF THE ANCHOR.
- Materials List
- COVER GUIDE ATTACHMENT: 1/2" DIA HEX HEAD EXP BOLT (3 3/4" LG) WITH FLAT WASHER.
 - PADLOCK. MFG AND KEY OPTIONS AS SPECIFIED BY RID.



U:\181301643\Drawings\civil\lat-7\7-1643.dwg 2/26/2020 12:03 PM By: Hart, Bryan

STRUCTURE SCHEDULE																CHECKBOARDS			
DELIVERY NO	NORTHING EASTING	REF DWG NO	PIPE 1	PIPE 2	PIPE 3	EL 1	EL 2	EL 3	EL 4	EL 5±	EL 6	EL 7	EL 8	ACCESS STEPS	REQUIRED HIGH WATER	DEL LENGTH	DEL QUANTITY	LAT LENGTH	LAT QUANTITY
7-10S	883850.03 544669.98	P-8	36" CL IV RGRCP	30" CL IV RGRCP	24" CL IV RGRCP	947.50	947.50	946.50	945.50	953.20	955.20	951.50	951.50	3	952.80	4'-4"	6	5'-4"	6

- Concrete Notes
- ALL STRUCTURAL CONCRETE SHALL BE CLASS AA (4,000 PSI) PER MAG SPECIFICATION SECTION 725.
 - REINFORCING STEEL BARS SHALL BE ASTM A615, GRADE 60.
 - CHAMFER EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES WITH A 45° BEVEL, 3/4" X 3/4". SEE DWG S-1, DETAIL.

- General Notes
- PIPE TO BE CENTERED HORIZONTALLY IN WALL.
 - MINIMUM COMPACTION FOR ABC BASE AND NATIVE SUB-BASE SHALL BE 95% OF MAX DENSITY PER ASTM D698 AT +2% TO -4% OF OPTIMUM MOISTURE CONTENT.
 - PROVIDE FULL DIMENSION LUMBER CHECKBOARDS (2"x6" PINE OR REDWOOD). SEE SCHEDULE FOR CUT LENGTH AND QUANTITY.
 - INSTALL TRACER WIRE ACCESS VAULT WHEN PIPE RUNS EXCEED 50' OR AT THE DIRECTION OF THE CONSTRUCTION OBSERVER. FLUSH WITH FINISH GRADE. SEE DETAIL 10, DWG D-1.
 - 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).

- Construction Notes
- DRILL HOLE 1/4" WIDER THAN THE DIAMETER OF THE ANCHOR. APPLY HILTI HIT RE 500 EPOXY OR APPROVED EQUIVALENT PER MANUFACTURER'S INSTRUCTIONS.
 - INSTALL 1/2" DIA EXPANSION ANCHORS USING THE APPROPRIATE COVER GUIDE, MANTEL, OR FIBERGLASS TRANSITION AS A TEMPLATE. EMBEDMENT OF ANCHORS SHALL BE TO THE FULL LENGTH OF THE ANCHOR.

- Materials List
- 3" DIA BRASS SURVEY MARKER, SOKKIA PART NUMBER 8134-08 OR APPROVED EQUIVALENT. CENTERED IN WALL. INSTALL PER MFG INSTRUCTIONS.
 - COVER GUIDE ATTACHMENT: 1/2" DIA HEX HEAD EXP BOLT (3 3/4" LG) WITH FLAT WASHER.

Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.8100
www.stantec.com

File Name:	S8_1643.DWG	HARUBH	GGB	CTS	03.20.26
Dwn:	Chkd:	Dsgn:	MM.DD.YY		

Permit Seal

70263
CAMERON T
SMITH
03/20/26

Expires 12/31/2028

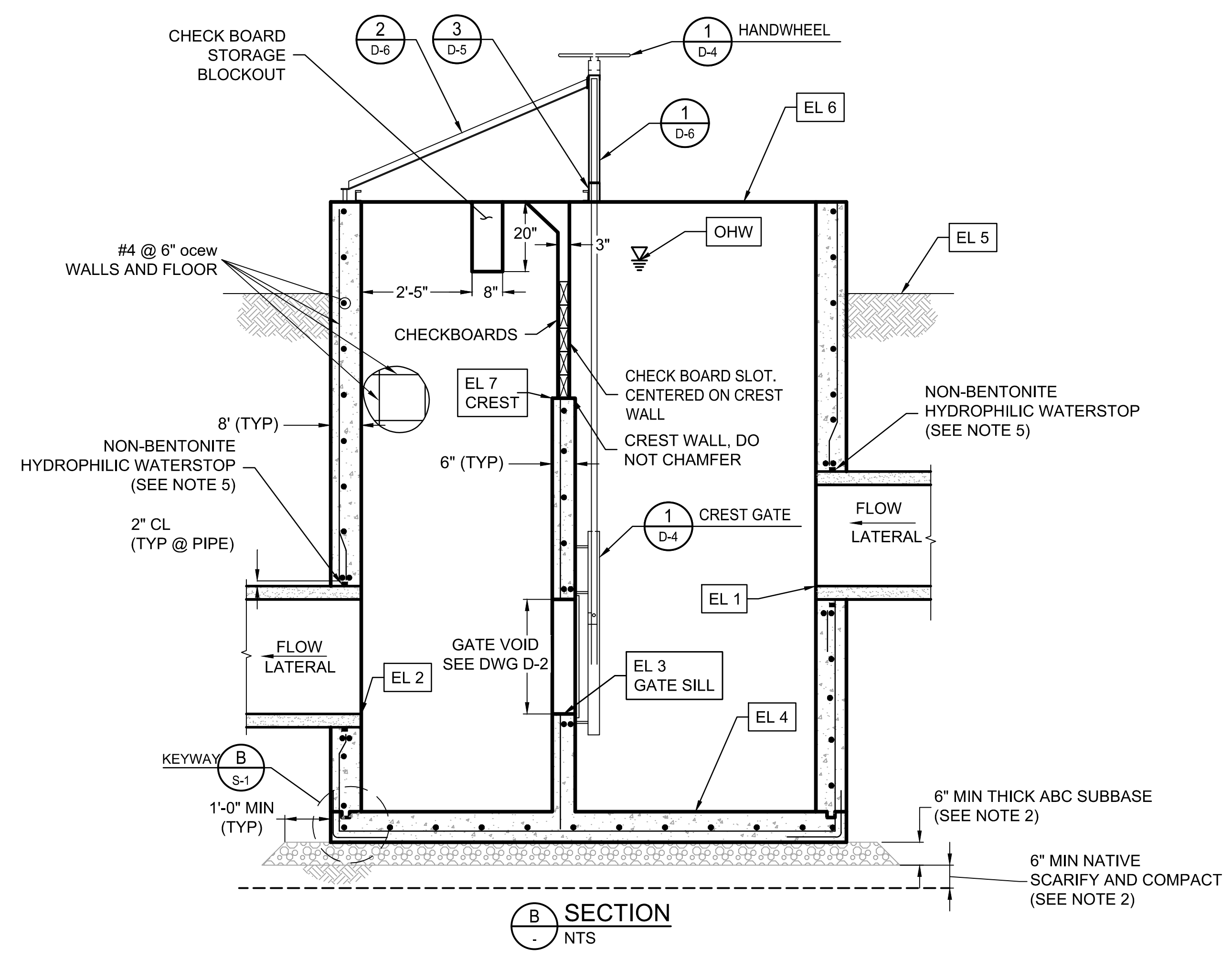
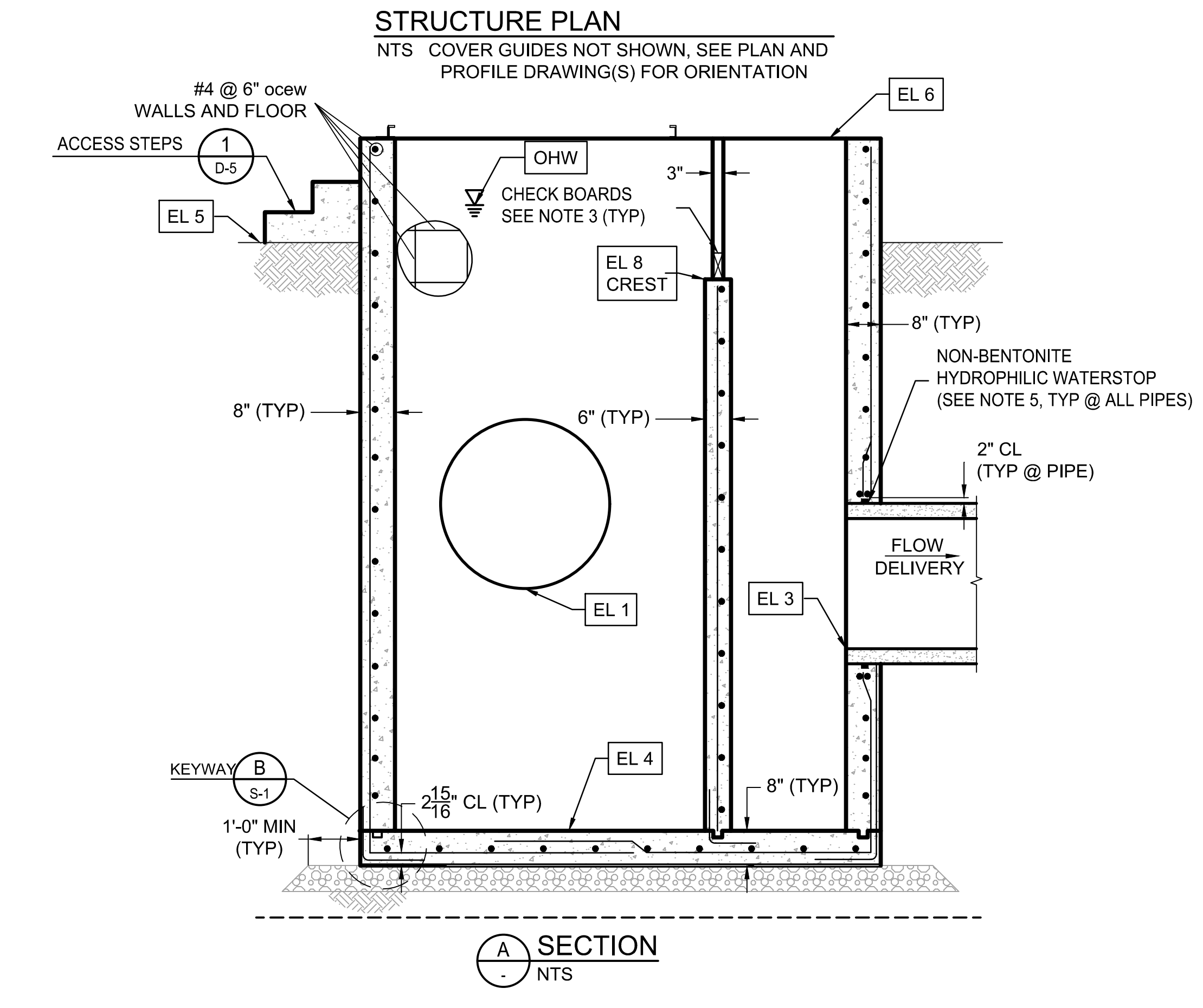
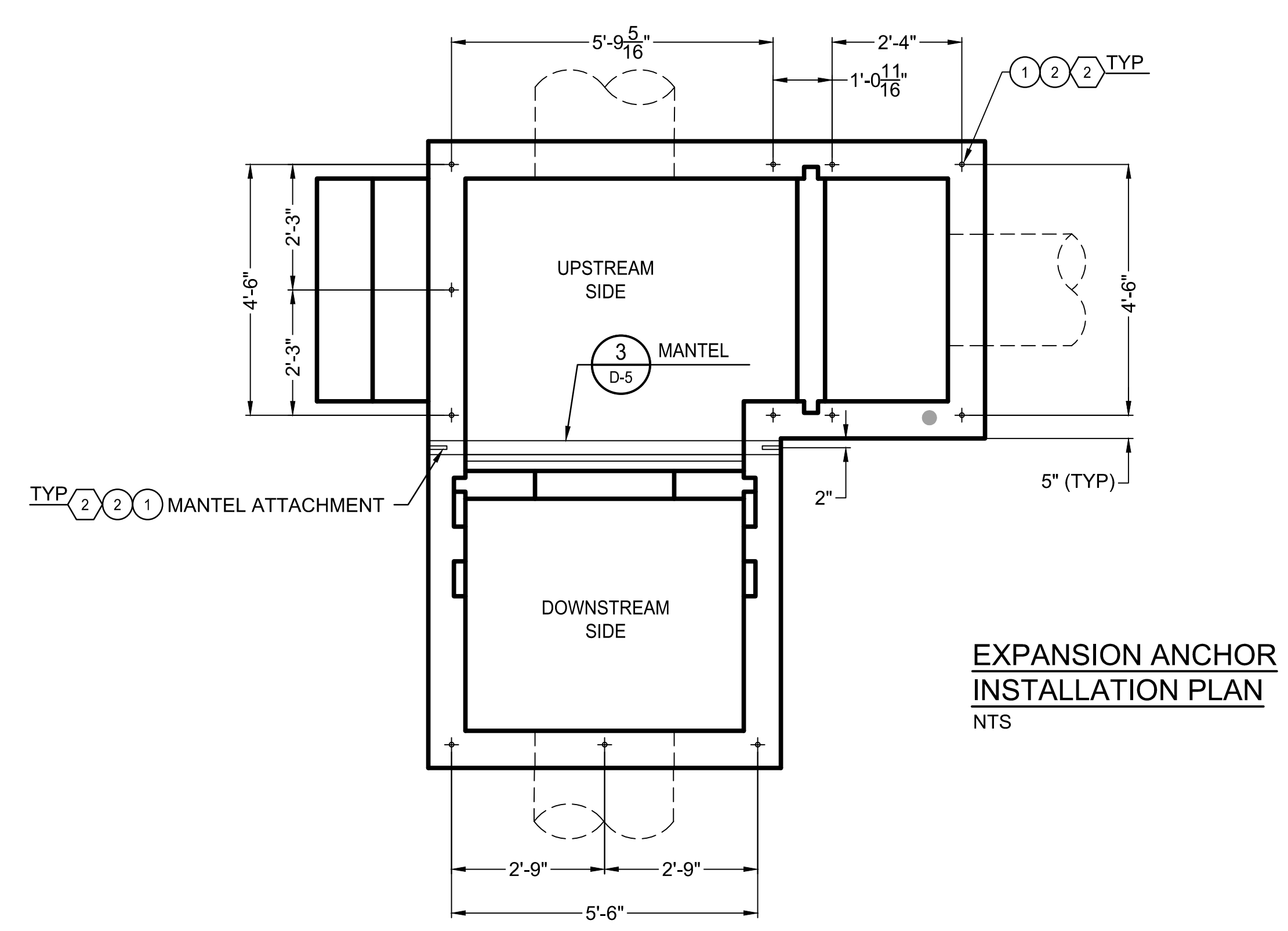
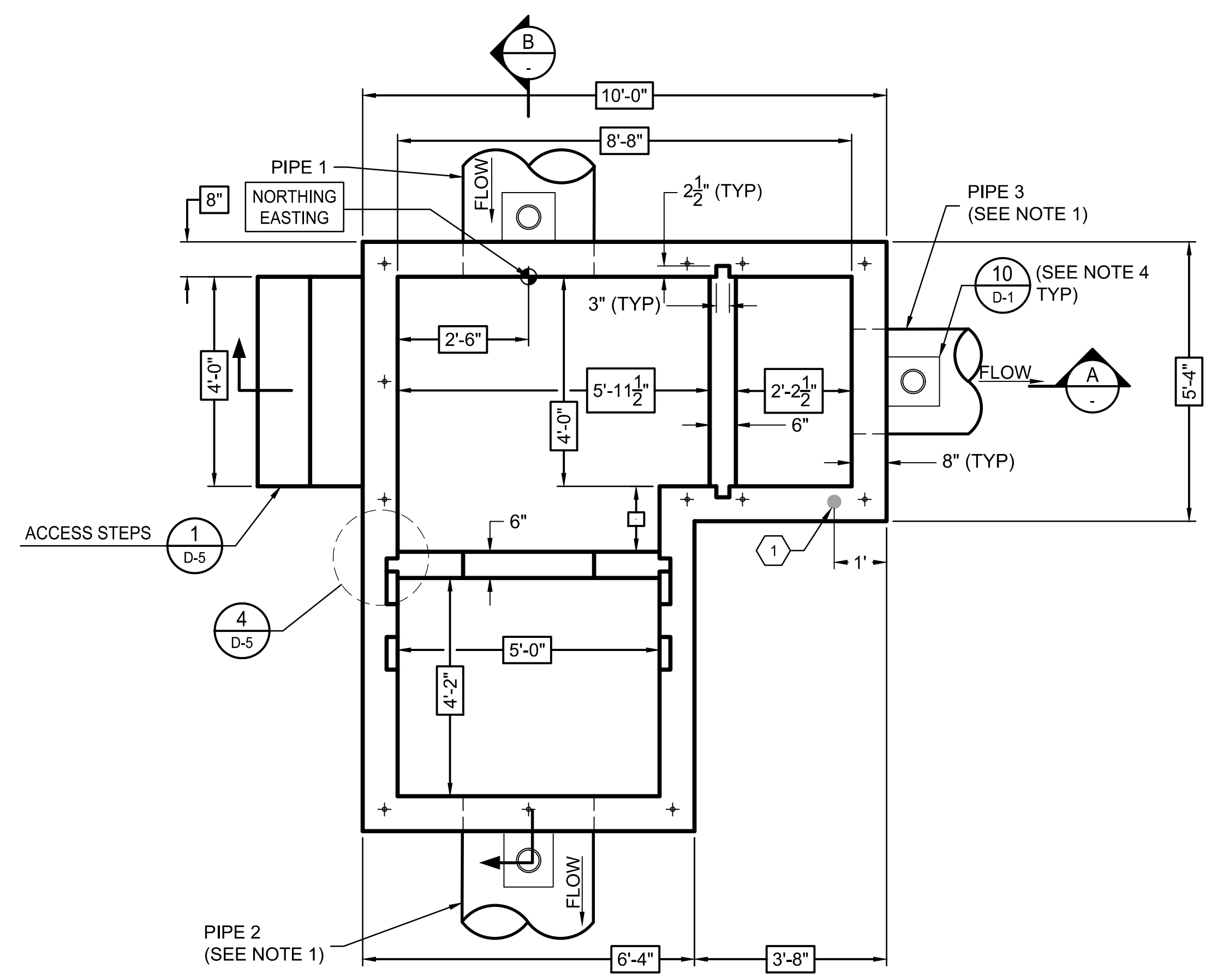
Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**

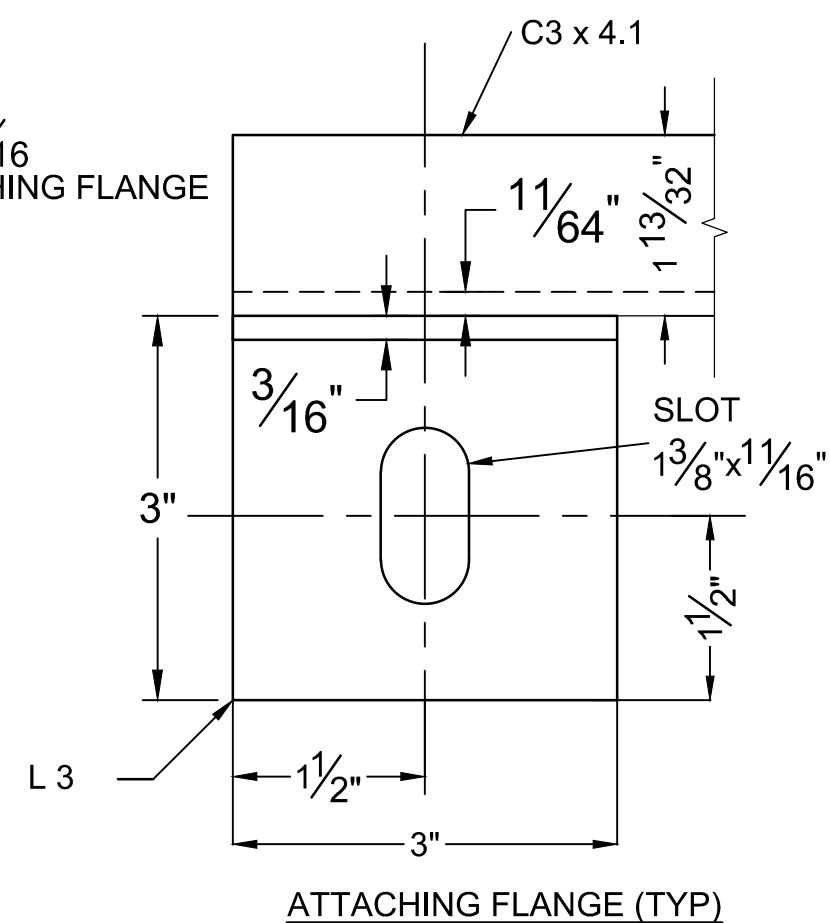
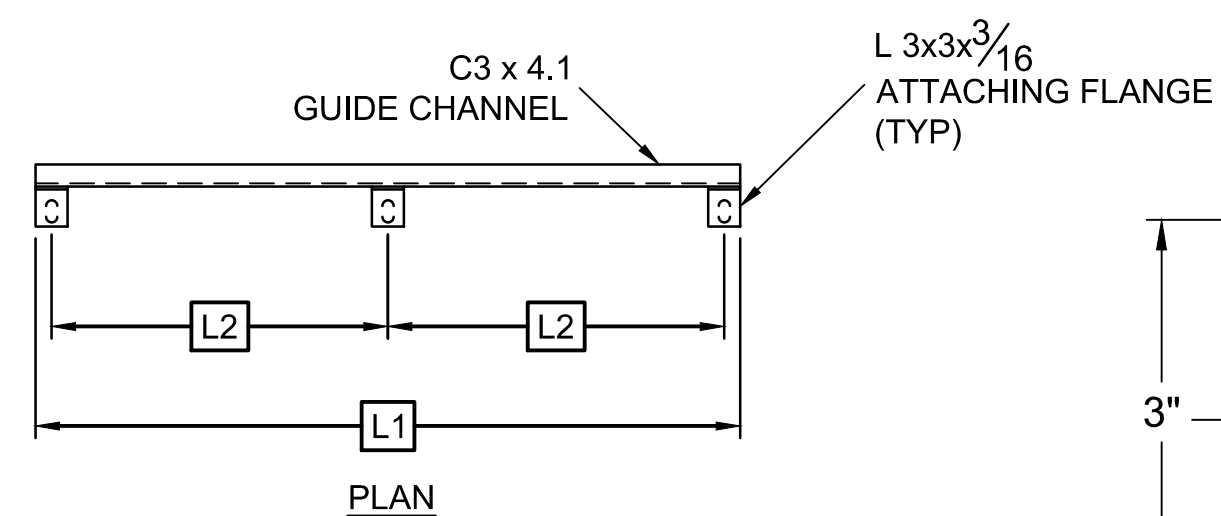
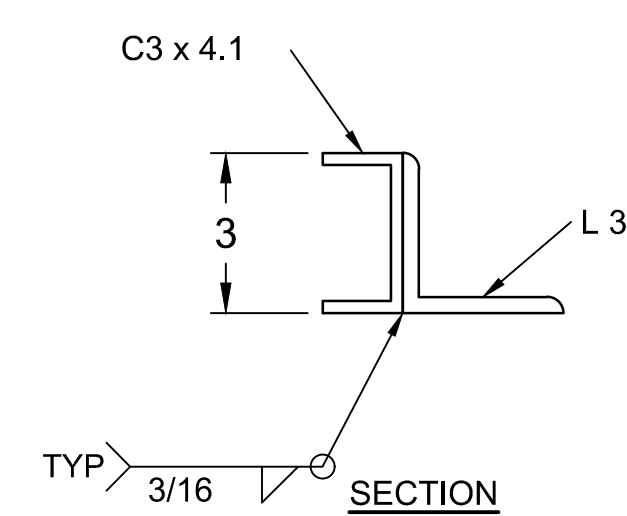
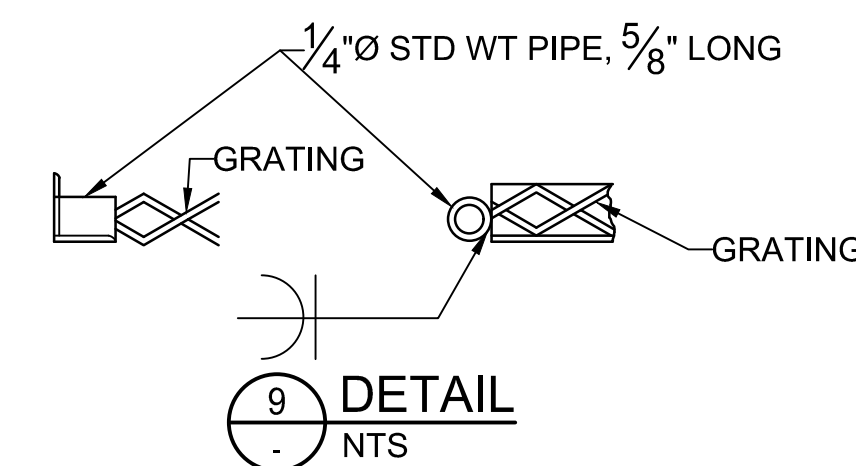
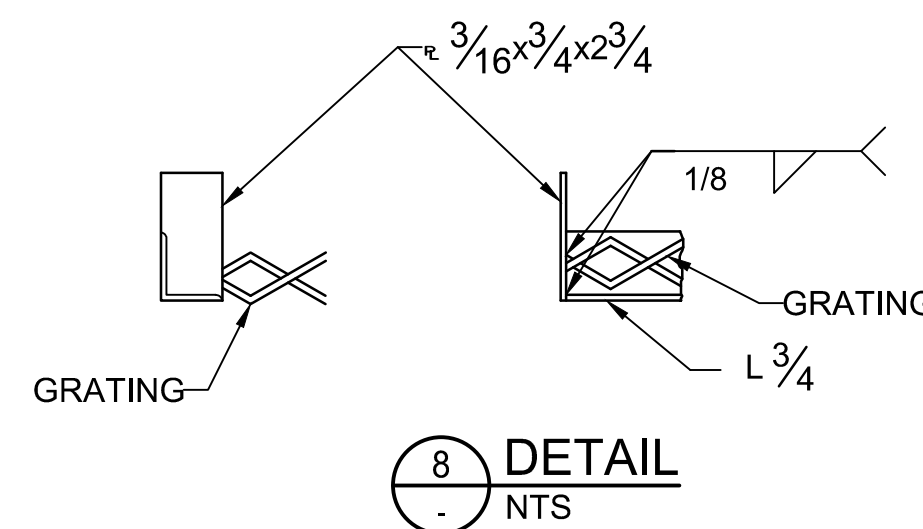
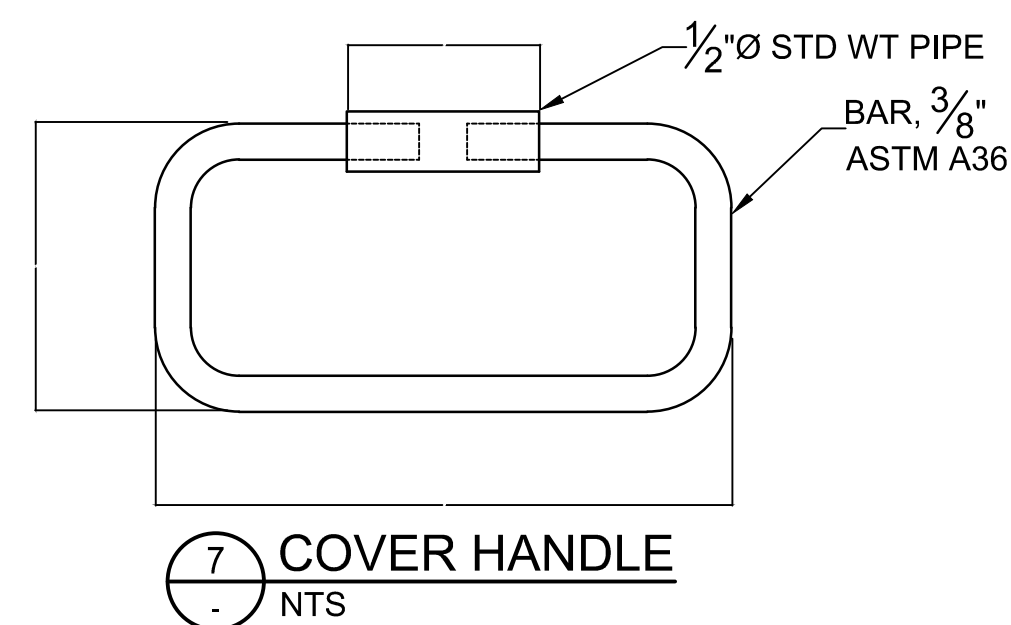
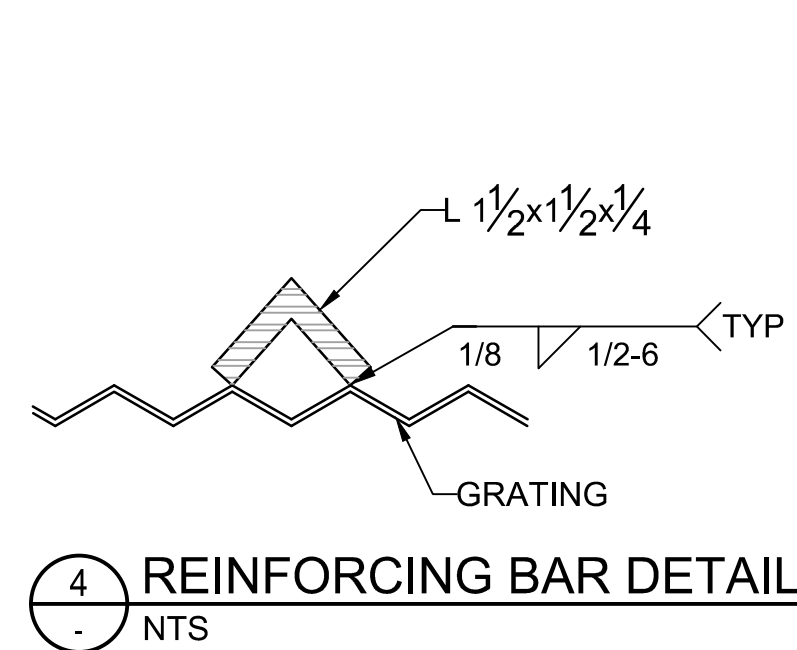
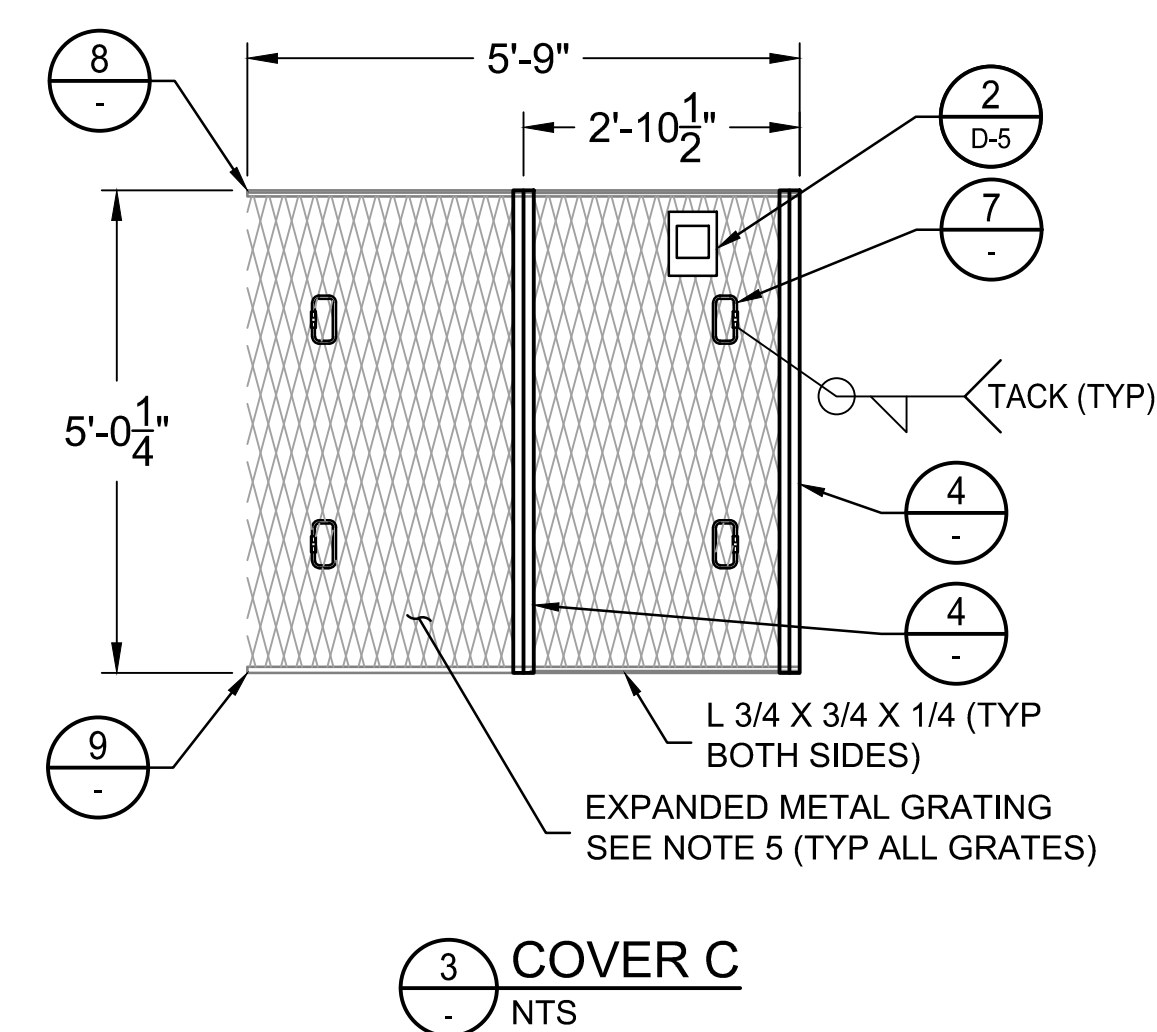
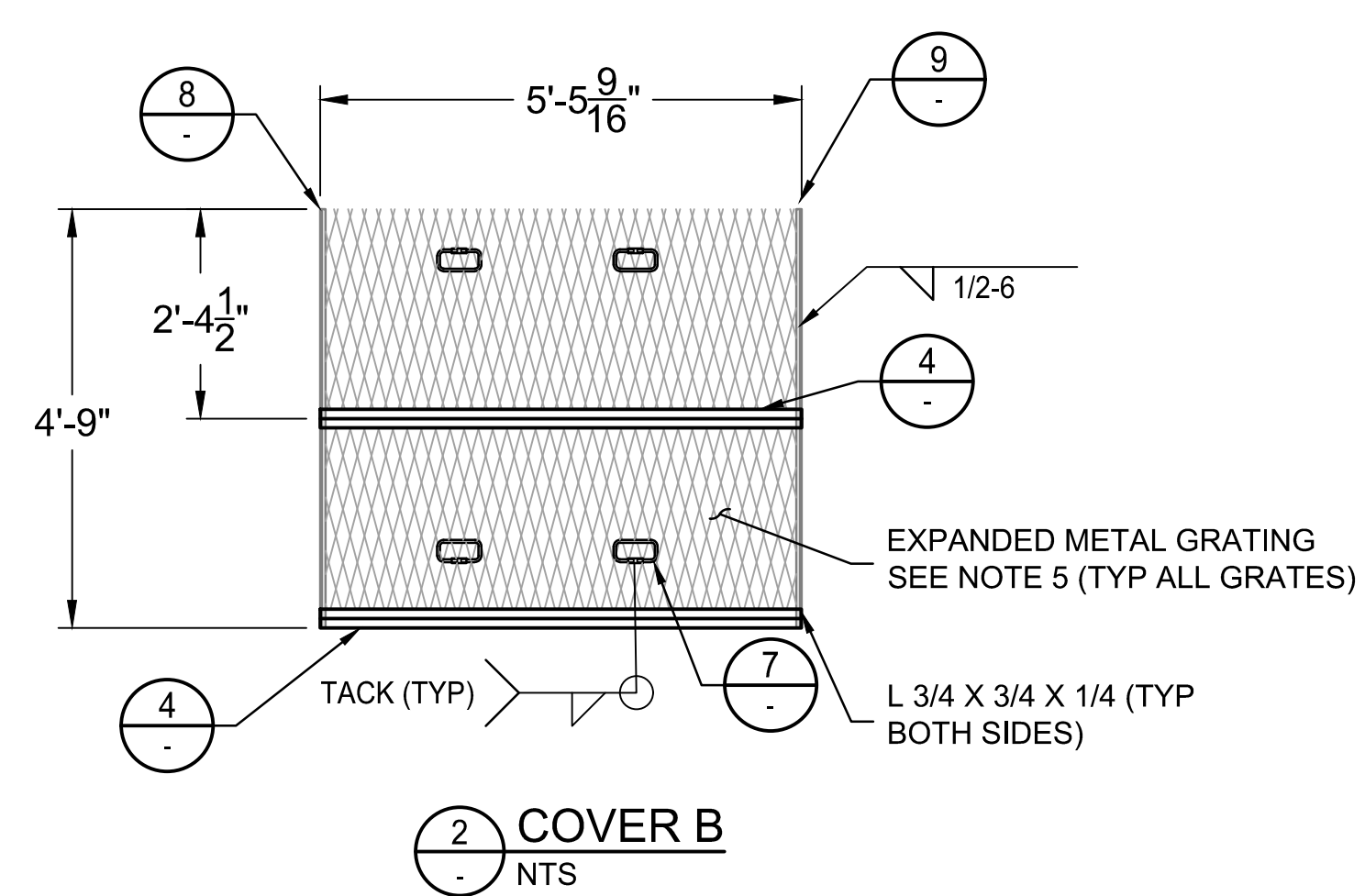
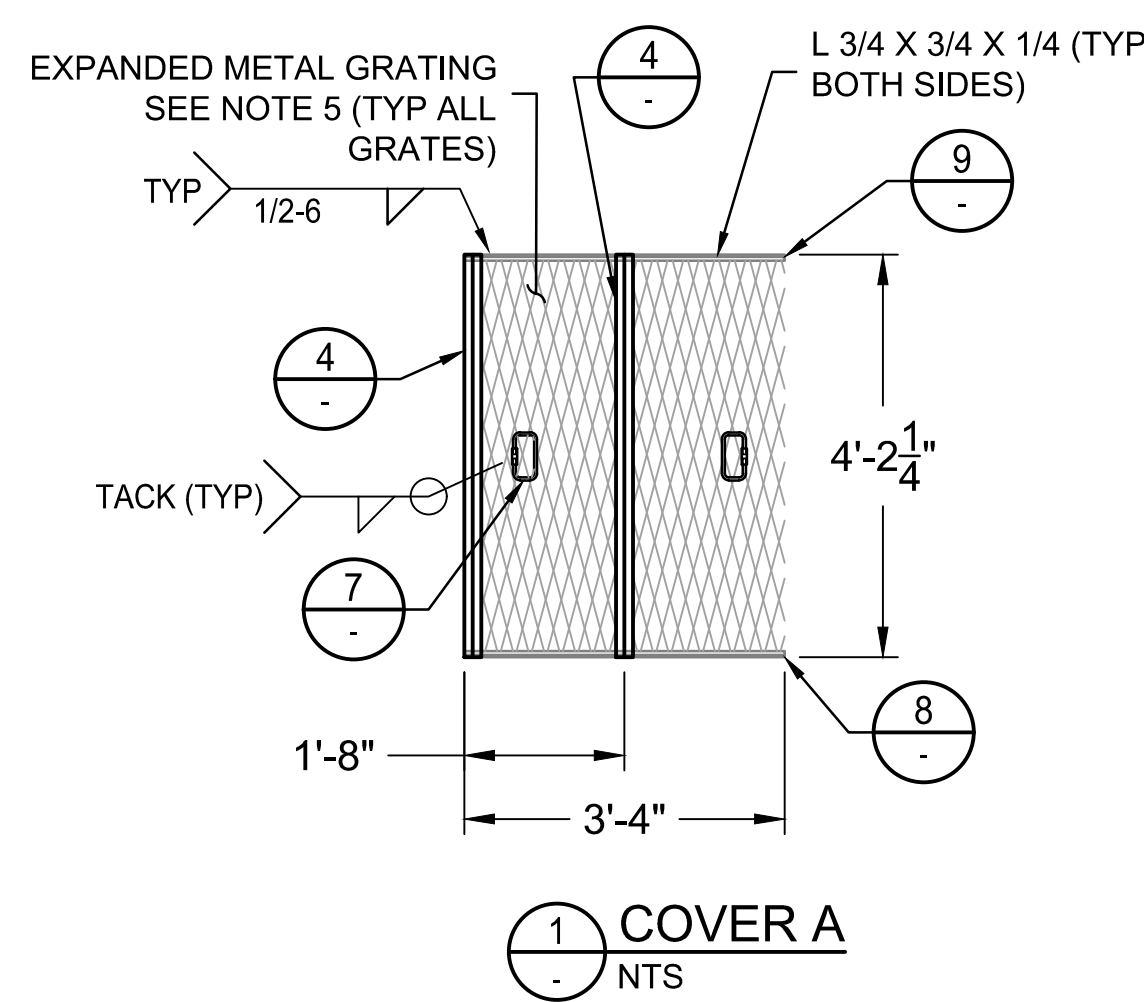
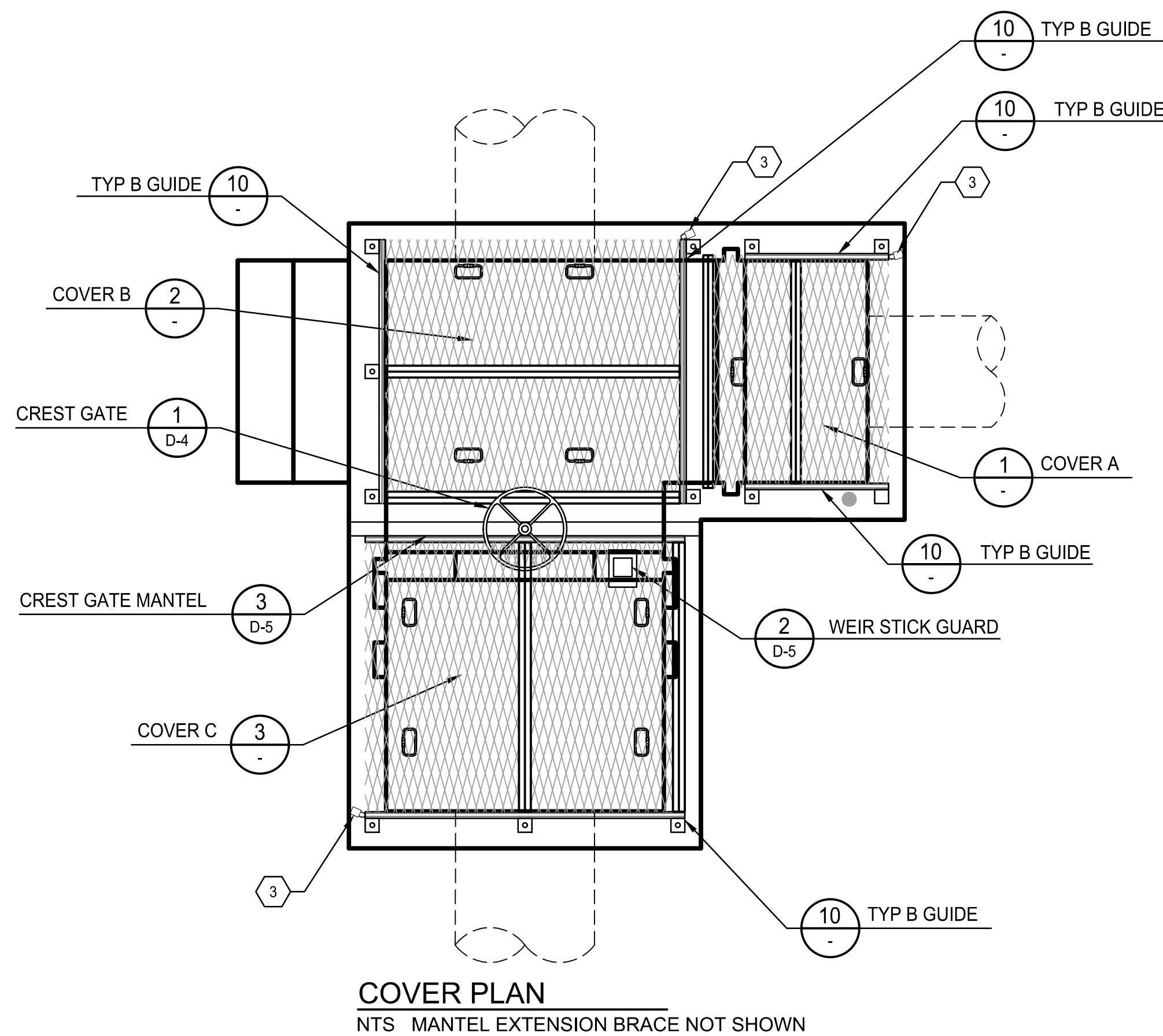
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
DELIVERY STRUCTURE - 7-10S

Project No.	Scale	
181301643	AS SHOWN	
Drawing No.	Sheet	Revision
S-8	52 of 61	0



U:\181301643\Drawings\civil\lat-7-10s_1643.dwg, 2/26/2026 12:04 PM By: Hart, Bryan



TYPE B GUIDE		
COVER	LENGTH (L1)	LENGTH (L2)
A	3'-4"	-
B	4'-9"	2'-3"
C	5'-9"	2'-9"

Cover & Guide Notes

- ALL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE SPECIFIED, TOLERANCE DIMENSIONS SHALL BE $\pm 1/32"$.
- AFTER FABRICATION, ALL ASSEMBLIES SHALL BE SANDBLASTED TO NEAR WHITE AND COATED TO A THICKNESS OF 5-7 MILS WITH ZINC METAL SPRAY OR HOT DIP GALVANIZE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW & APPROVAL BY ENGINEER.
- METAL GRATING SHALL BE McNICHOLS EXPANDED METAL GRATING, CARBON STEEL, HRPO, 3,14# GRATING (STANDARD/RAISED), 60% OPEN AREA OR APPROVED EQUIVALENT.

Materials List

- PADLOCK, MFG AND KEY OPTIONS AS SPECIFIED BY RID.

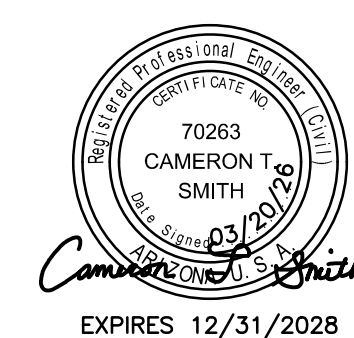


Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.6100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: S8_1643.DWG HARUBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal



Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**

ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
**DELIVERY STRUCTURE
7-10S SLIDE COVER
& GUIDE DETAILS**

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

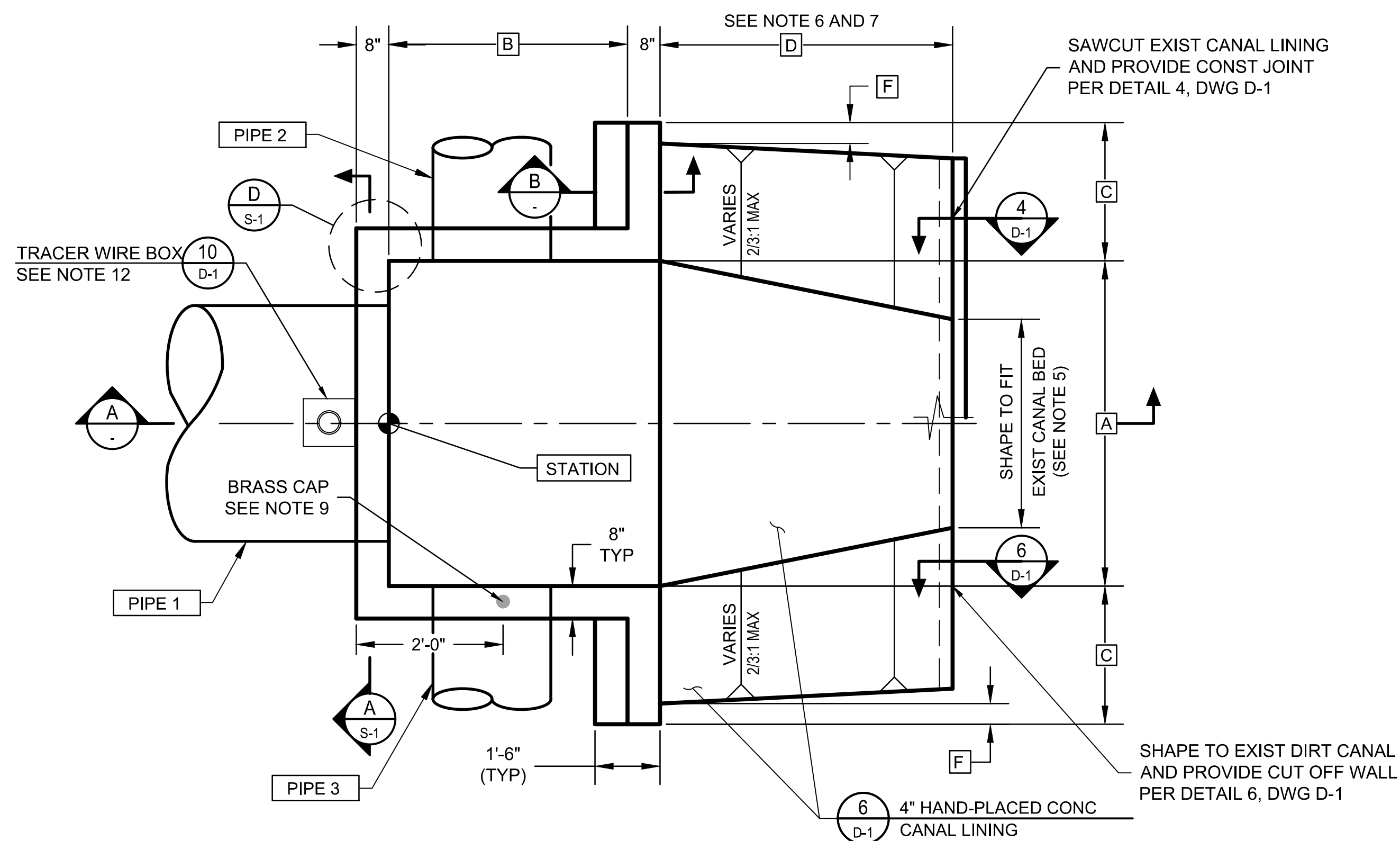
S-8.1 53 of 61 0

STRUCTURE SCHEDULE

HDWL NO	NORTHING EASTING	REF DWG NO	PIPE 1	PIPE 2	PIPE 3	EL 1	EL 2	EL 3±	EL 4	EL 5±	A	B	C	D	E	F
1	883838.16 544699.35	SP-1	18" CL IV RGRCP	-	-	950.80	946.30	948.00	950.20	950.20	3'-4"	2'-0"	2'-6"	10'-0"	4'-8"	-
2	883857.90 544699.35	SP-1	18" CL IV RGRCP	-	-	950.90	946.30	948.00	950.40	950.40	3'-4"	2'-0"	2'-10"	10'-0"	4'-10"	0'-3 1/2"

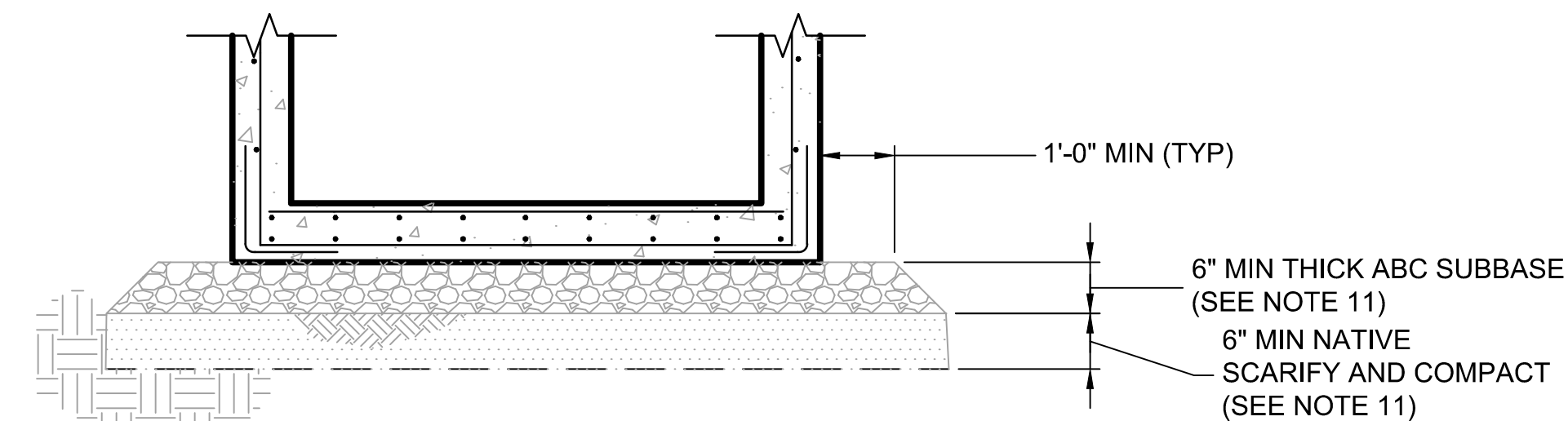
Notes

- SEE PLAN AND PROFILE DRAWING(S) FOR ORIENTATION OF HEADWALL(S).
- ALL STRUCTURAL CONCRETE SHALL BE CLASS AA (4,000 PSI) PER MAG SPECIFICATION SECTION 725.
- REINFORCING STEEL TO BE ASTM A615 GRADE 60.
- CONCRETE FILLER TO MATCH INVERT ELEVATION AT [EL 2] AND MATCH SLOPE OF PIPE.
- MATCH HAND-PLACED LINING TRANSITION TO WIDTH, ELEVATION & SLOPE OF EXIST DITCH.
- SHAPE AND COMPACT TRANSITION SUBGRADE FROM HEADWALL TO 36" PAST UNDISTURBED UNLINED DITCH OR TO UPSTREAM END OF TRANSITION, WHICHEVER IS GREATER.
- EXTEND TRANSITION LINING FROM [EL 4] TO EXIST DITCH OR CONCRETE LINING BY LENGTH [D] AND MATCH FINISH WITH EXIST SLIPFORM LINING (IF APPLICABLE).
- CHAMFER EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES WITH A 45° BEVEL, 3/4" X 3/4".
- 3" DIA BRASS CAP SURVEY MARKER, SOKKIA PART NUMBER 8134-08 OR APPROVED EQUIVALENT. CENTERED IN WALL. INSTALL PER MFG INSTRUCTIONS.
- 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 SUB-BASE SHALL BE 95% OF MAX DENSITY PER ASTM D698 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 [EL 5]. SEE DETAIL 10, DWG D-1.



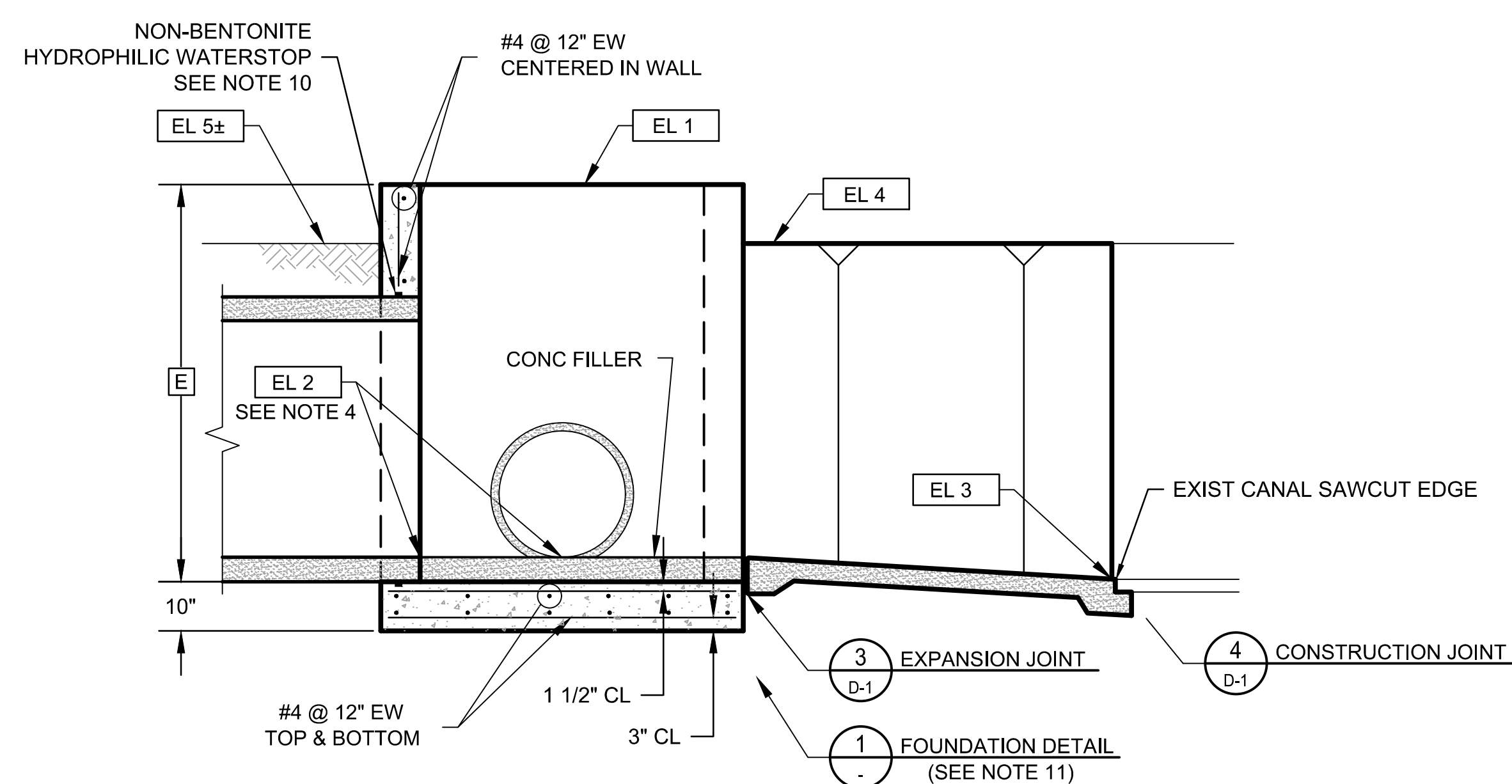
OUTLET HEADWALL PLAN

NTS



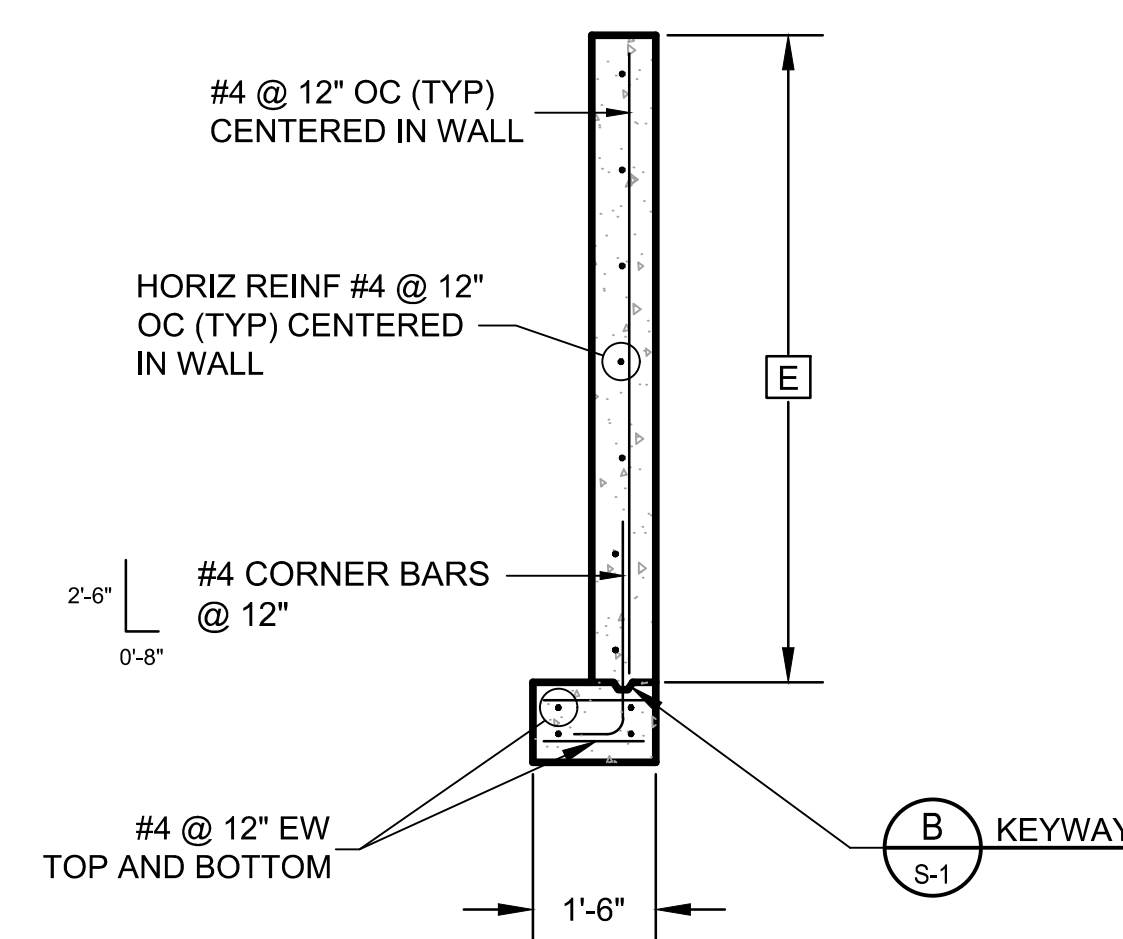
1 FOUNDATION DETAIL

NTS



A SECTION

NTS



B WING WALL SECTION

NTS

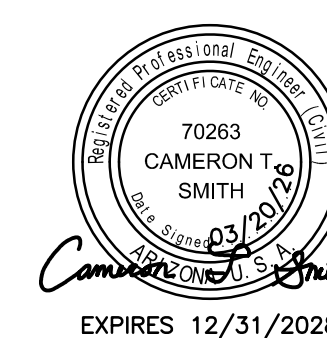


Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.8100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: S9_1643.DWG HARUBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal



Client/Project

ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW

ADOT LOOP 303
PACKAGE 1

Goodyear, Arizona

Title

OUTLET HEADWALL DETAILS

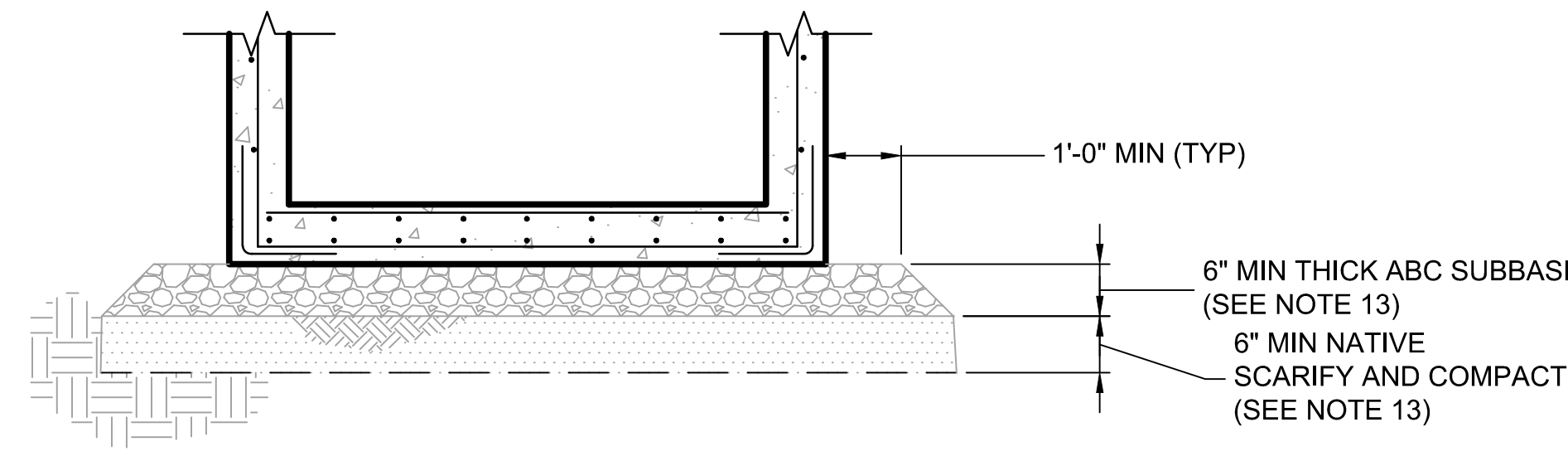
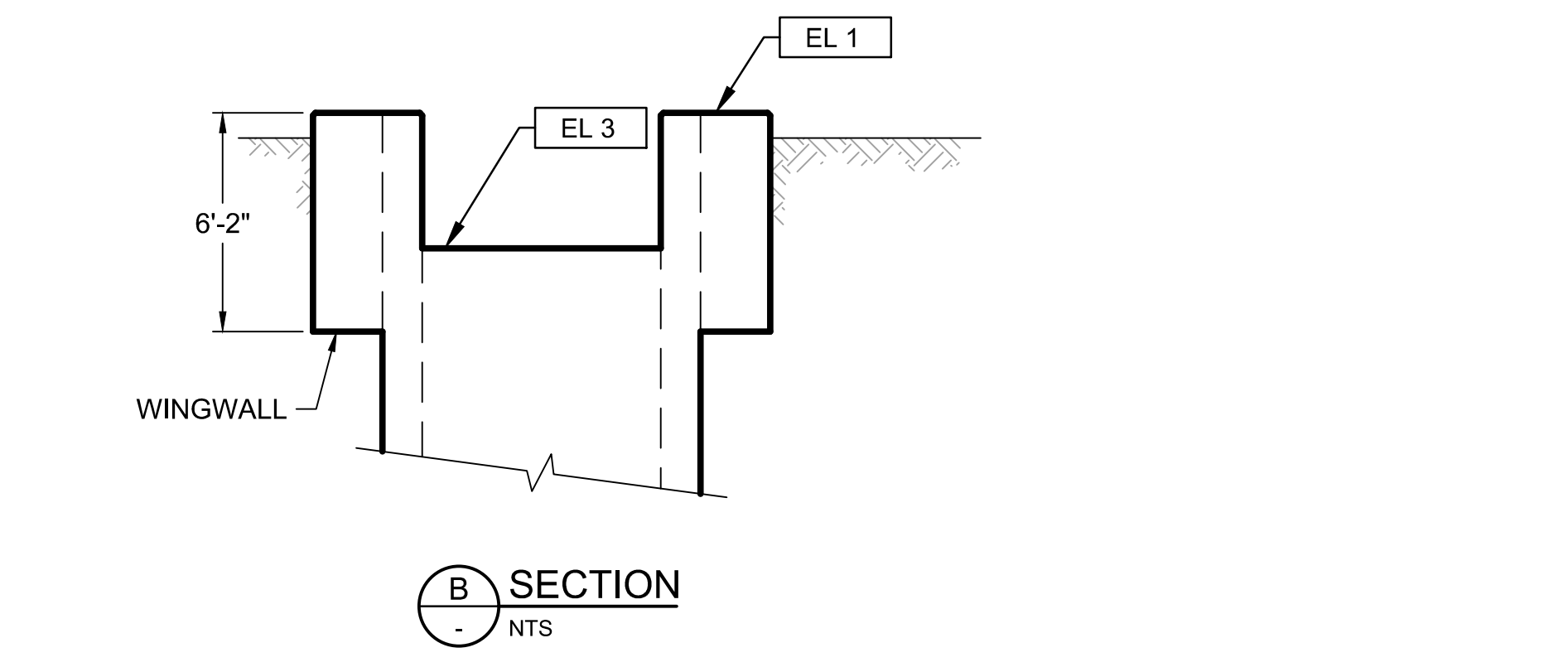
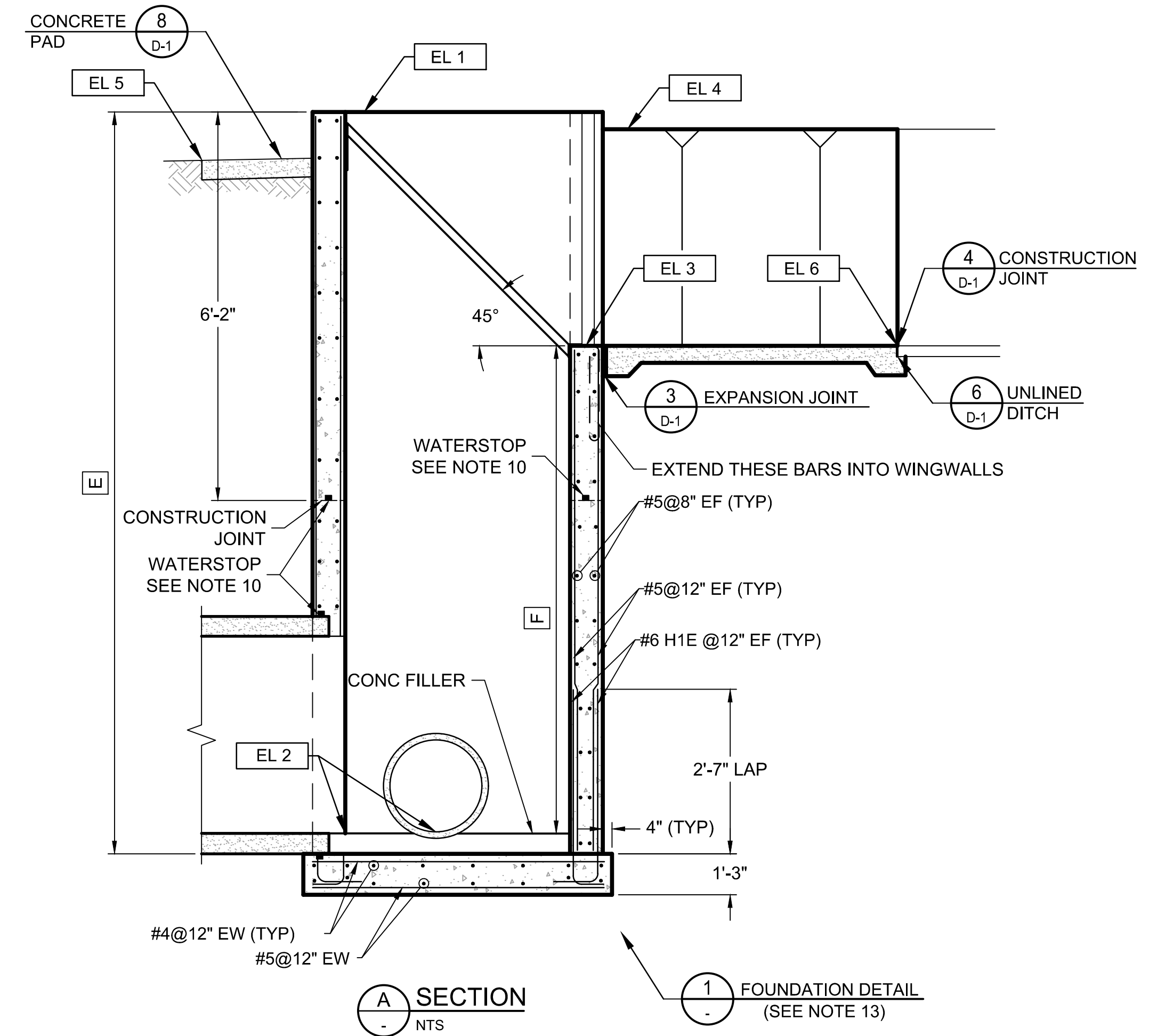
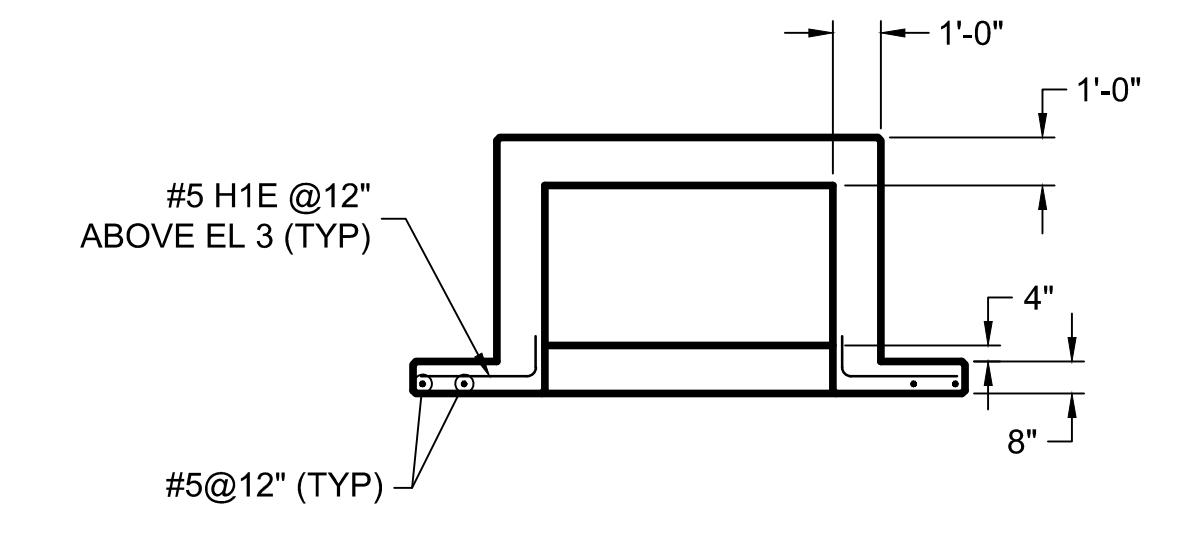
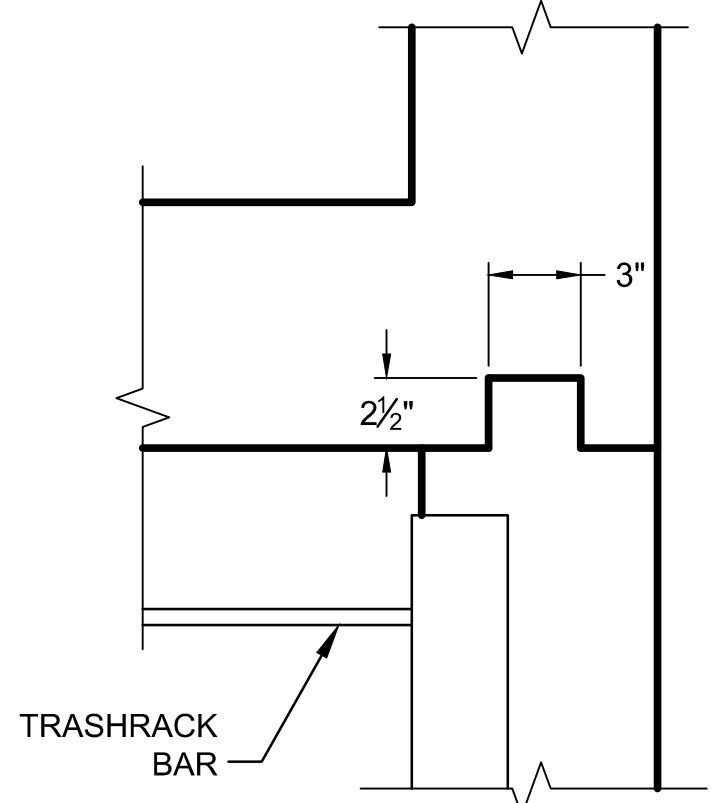
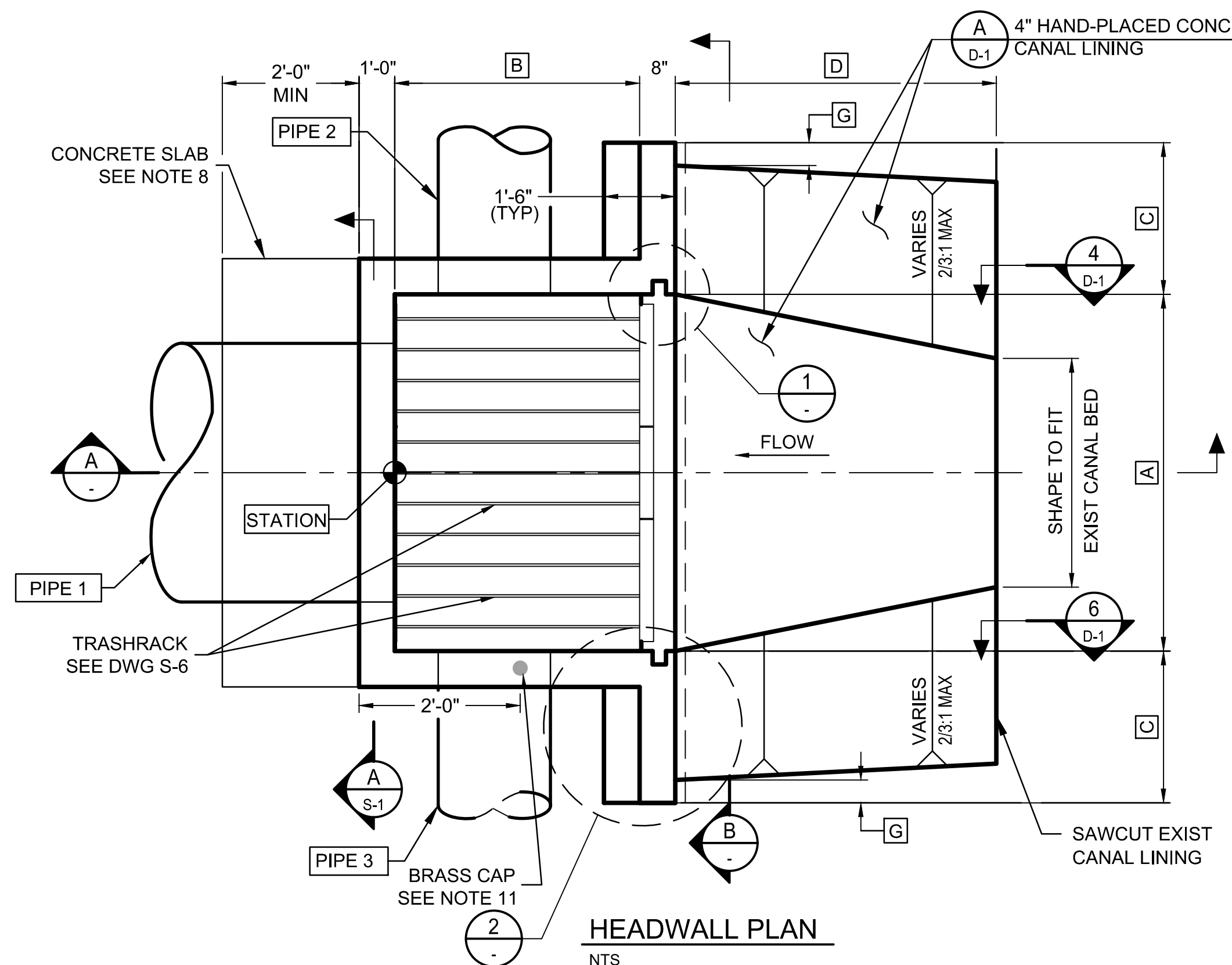
Project No. 181301643 Scale AS SHOWN

Drawing No. S-9 Sheet 54 of 61 Revision 0

STRUCTURE SCHEDULE

HDWL NO	NORTHING EASTING	REF DWG NO	PIPE 1	PIPE 2	PIPE 3	EL 1	EL 2	EL 3	EL 4	EL 5±	EL 6	A	B	C	D	E	F	G	BAR LENGTH	NUMBER OF PANELS REQUIRED		
																				TYPE 1	TYPE 2	TYPE 3
1	881220.13 545709.86	P-18	36" CL IV RGRCP	-	-	942.50	933.70	936.20	939.30	941.90	936.50	4'-6"	4'-8"	7'-0"	10'-0"	9'-1 7/8"	2'-9 7/8"	4'-10 3/4"	6'-8 1/2"	1	1	-

- Notes
- SEE PLAN AND PROFILE DRAWING(S) FOR ORIENTATION OF HEADWALL(S).
 - ALL STRUCTURAL CONCRETE SHALL BE CLASS AA (4,000 PSI) PER MAG SPECIFICATION SECTION 725.
 - REINFORCING STEEL TO BE ASTM A615 GRADE 60.
 - CONCRETE FILLER TO MATCH INVERT ELEVATION AT [EL 2] AND MATCH SLOPE OF PIPE.
 - MATCH HAND-PLACED LINING TRANSITION TO WIDTH, ELEVATION & SLOPE OF EXIST DITCH.
 - SHAPE AND COMPACT TRANSITION SUBGRADE FROM HEADWALL TO 36" PAST UNDISTURBED UNLINED DITCH OR TO UPSTREAM END OF TRANSITION, WHICHEVER IS GREATER.
 - EXTEND TRANSITION LINING FROM [EL 4] TO EXIST DITCH OR CONCRETE LINING BY LENGTH D AND MATCH FINISH WITH EXIST SLIPFORM LINING (IF APPLICABLE).
 - CONCRETE SLAB - 4" THICK, MIN 24" WIDE. LENGTH TO MATCH HEADWALL. BROOM FINISH. SLOPE SLAB TO DRAIN AWAY FROM HEADWALL. TOP OF SLAB TO BE LEVEL WITH ADJACENT FINISHED GRADE.
 - CHAMFER EDGES OF PERMANENTLY EXPOSED CONC SURFACES WITH A 45° BEVEL, 3/4" X 3/4".
 - WATERSTOP SHALL BE ADEKA ULTRA SEAL MC-2005M OR EQUIVALENT PER MANUFACTURER'S INSTRUCTIONS. CLEAN SURFACE AND BOND WATERSTOP TO SURFACE WITH 3M 2141 RUBBER ADHESIVE.
 - 3" DIA BRASS CAP SURVEY MARKER, SOKKIA PART NUMBER 8134-08 OR APPROVED EQUIVALENT, CENTERED IN WALL. INSTALL PER MFG INSTRUCTIONS.
 - CONTRACTOR TO PROVIDE PINE CHECKBOARDS, FULL DIMENSION LUMBER 2"X6", LENGTH=4'-3".
 - MINIMUM COMPACTION FOR ABC BASE AND NATIVE SUB-BASE SHALL BE 95% OF MAX DENSITY PER ASTM D698 AT +2% TO -4% OF OPTIMUM MOISTURE CONTENT.



Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: S10_1643.DWG HARUBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal
70263 CAMERON T. SMITH
Expires 12/31/2028

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

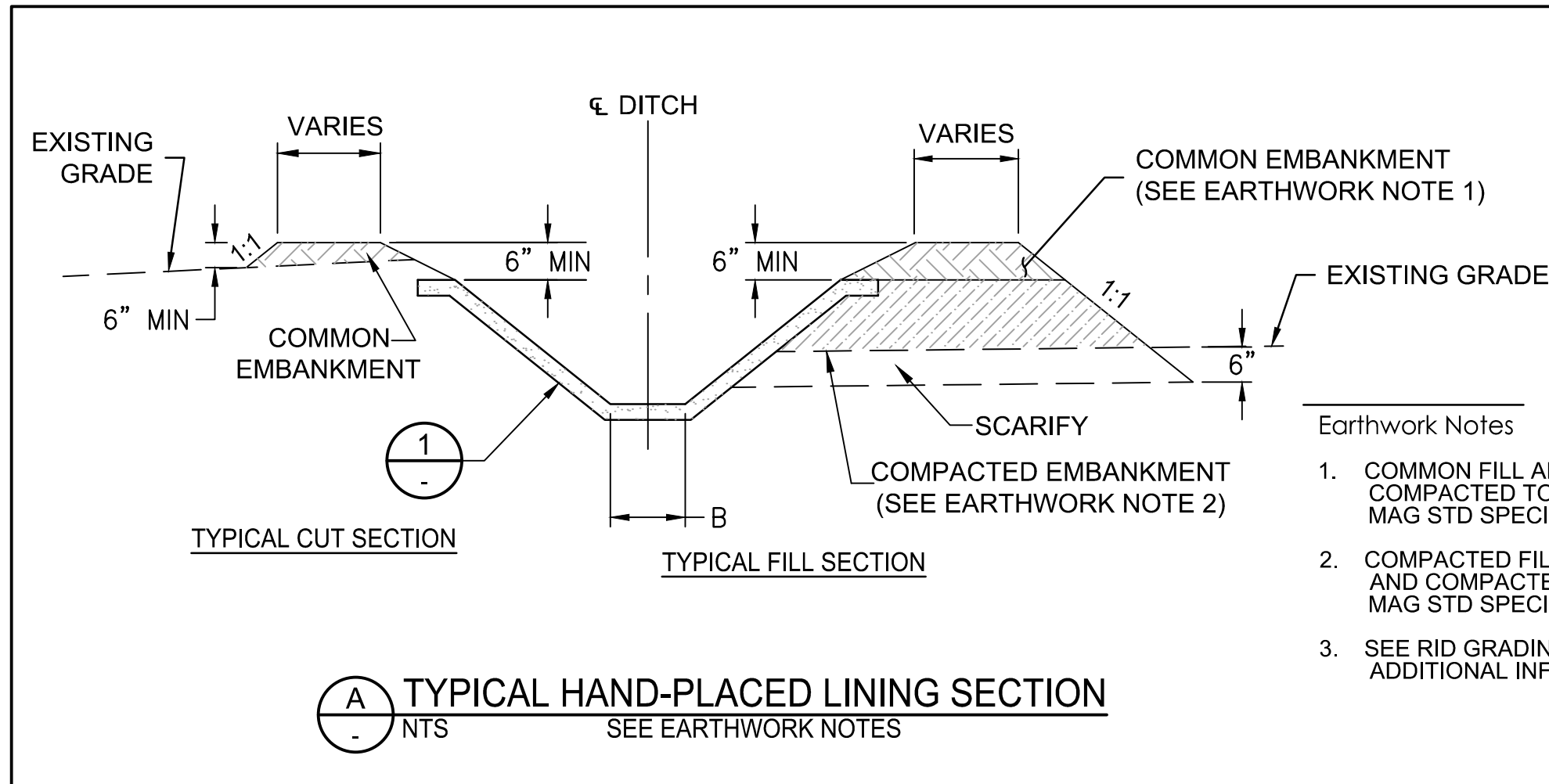
Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**

ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

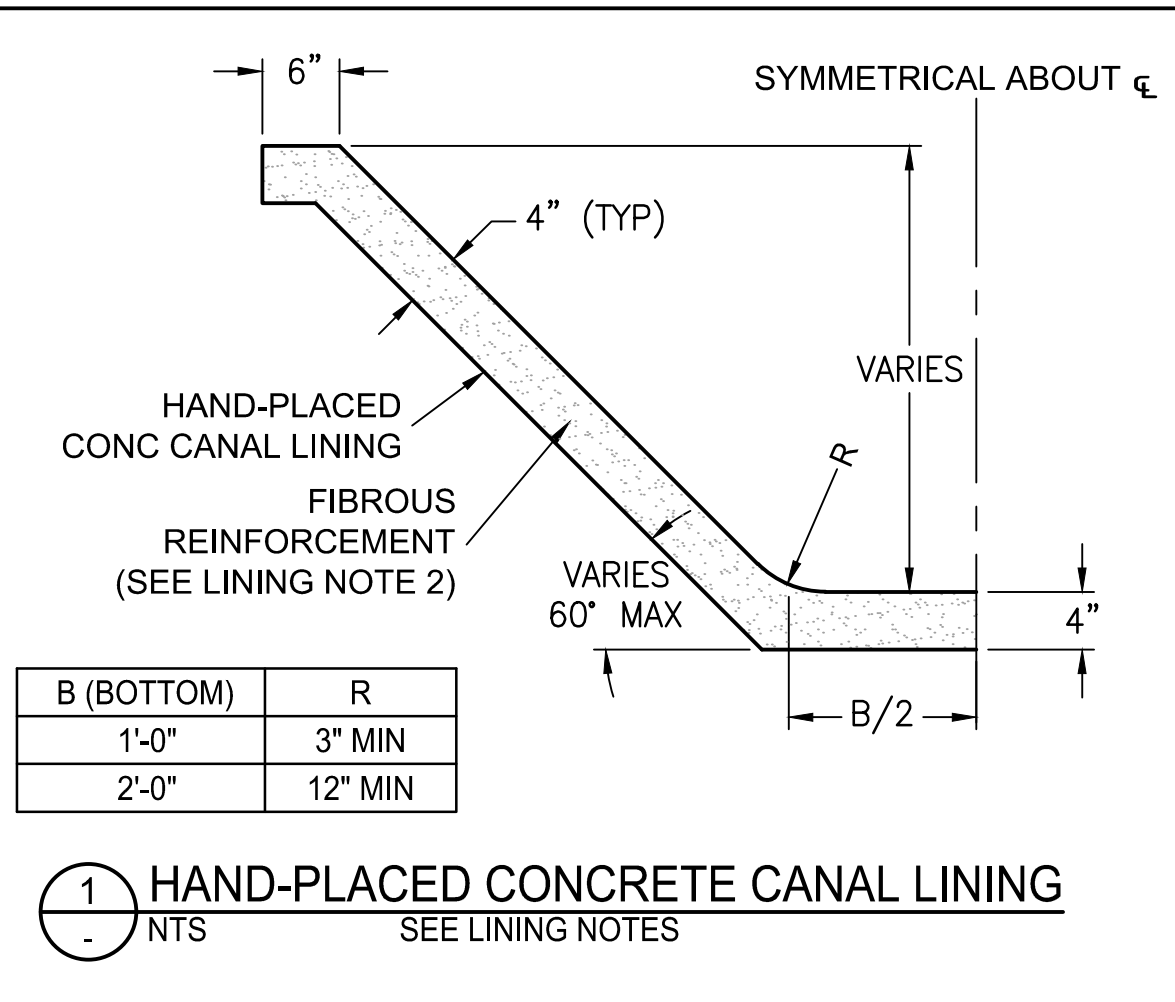
Title
STRUCTURAL HEADWALL DETAILS

Project No. 181301643	Scale AS SHOWN
Drawing No. S-10	Sheet 55 of 61
	Revision 0

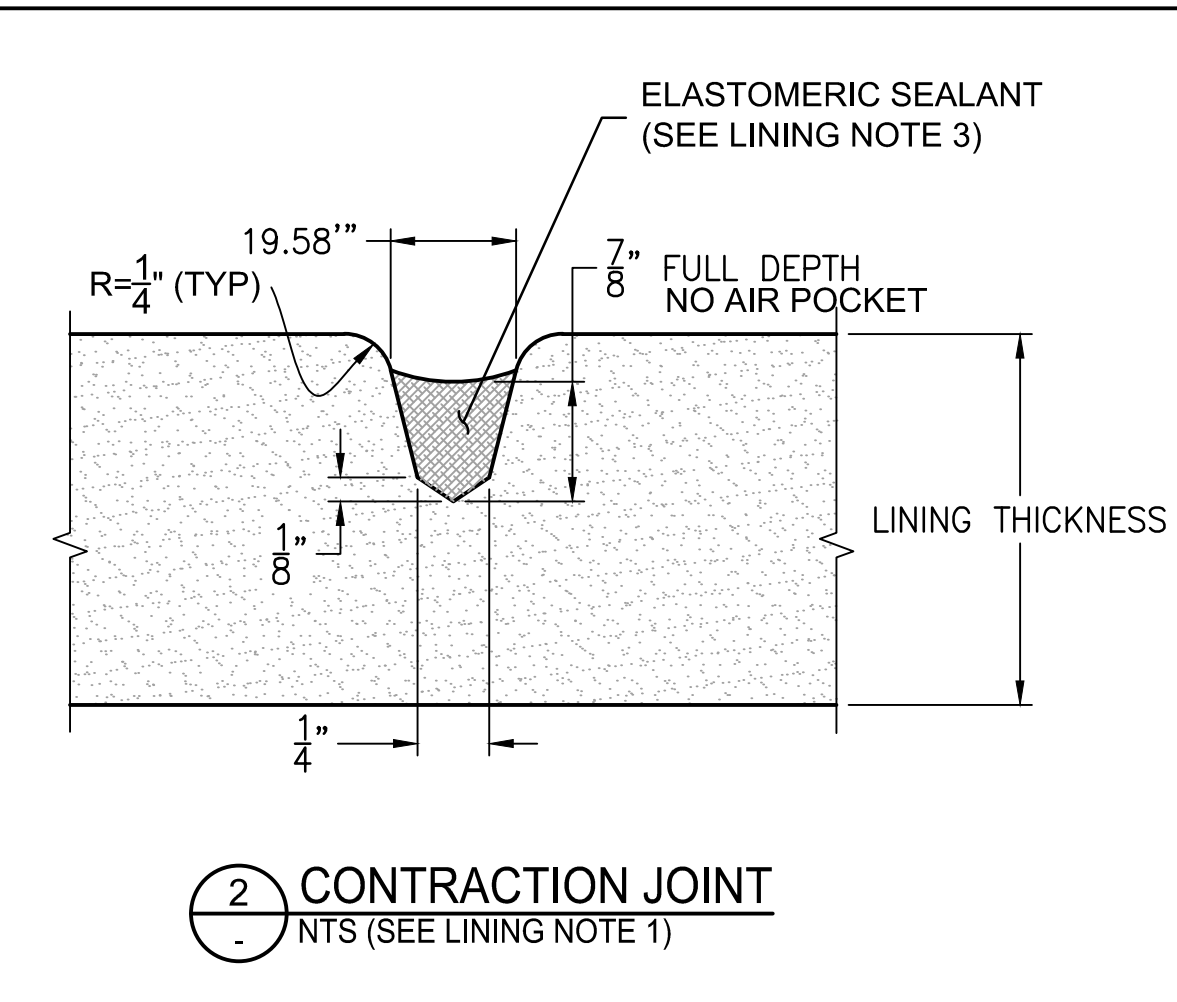
U:\181301643\Drawings\civil\lat-7\10_1643.dwg 2026/03/20 12:04 PM By: Hart, Bryan



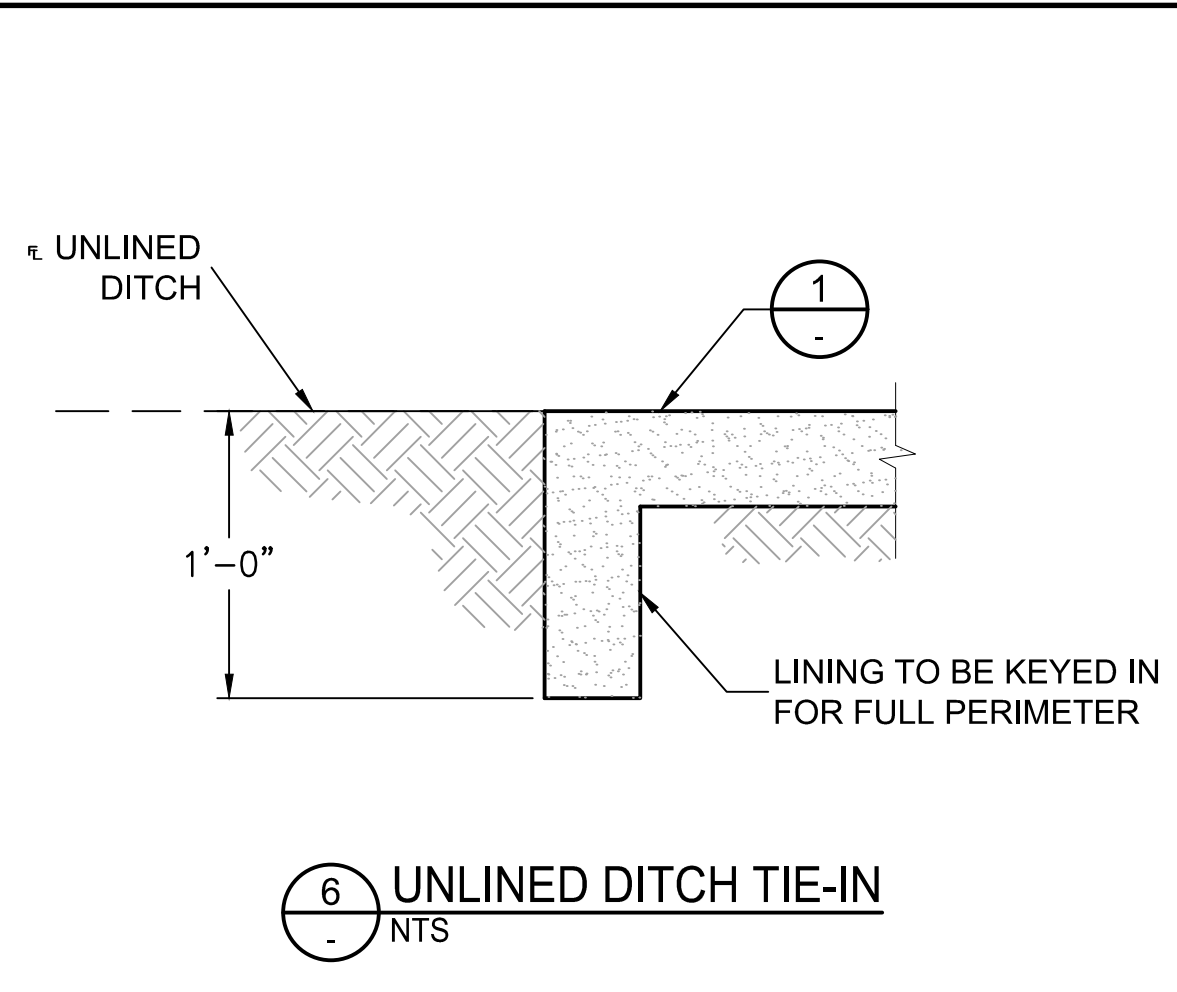
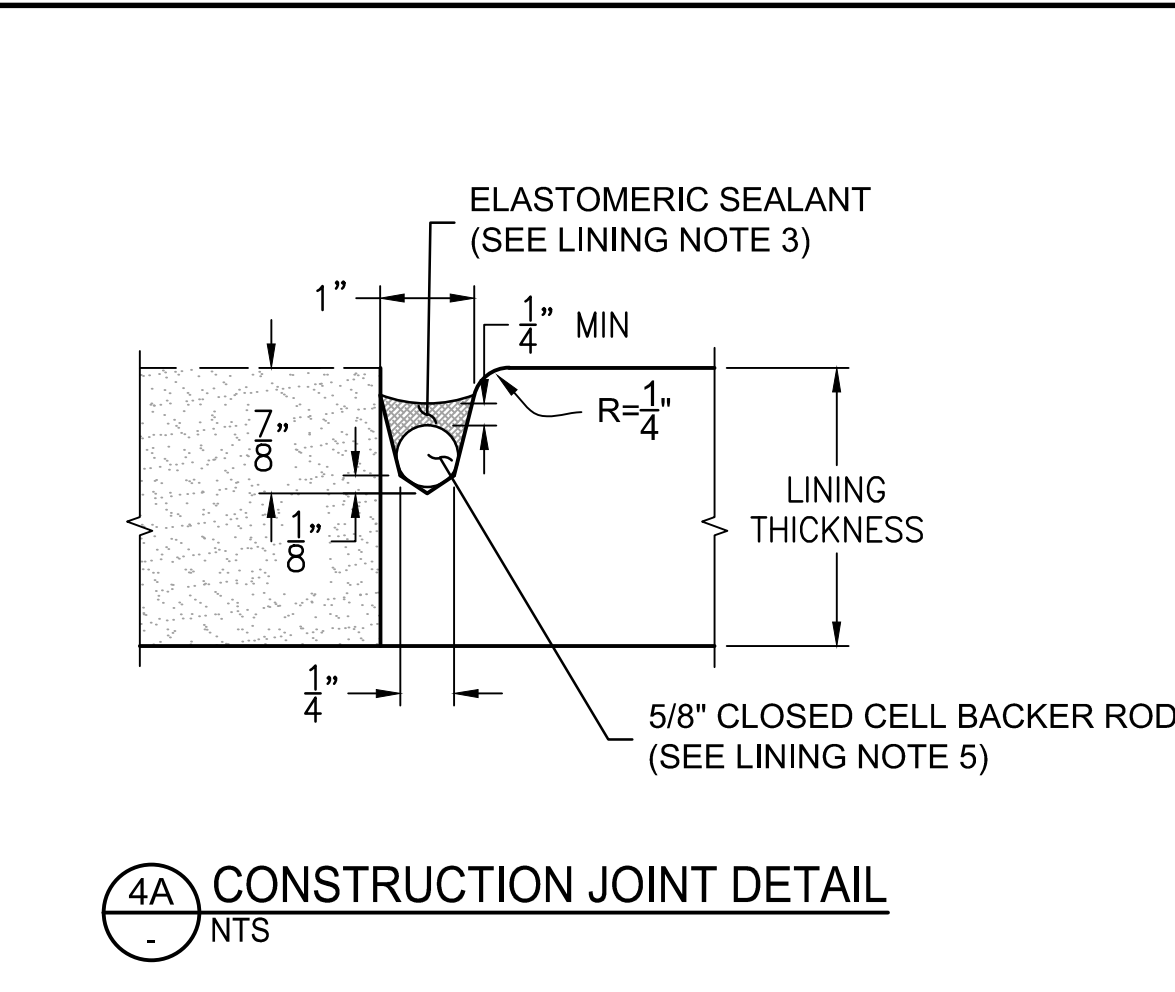
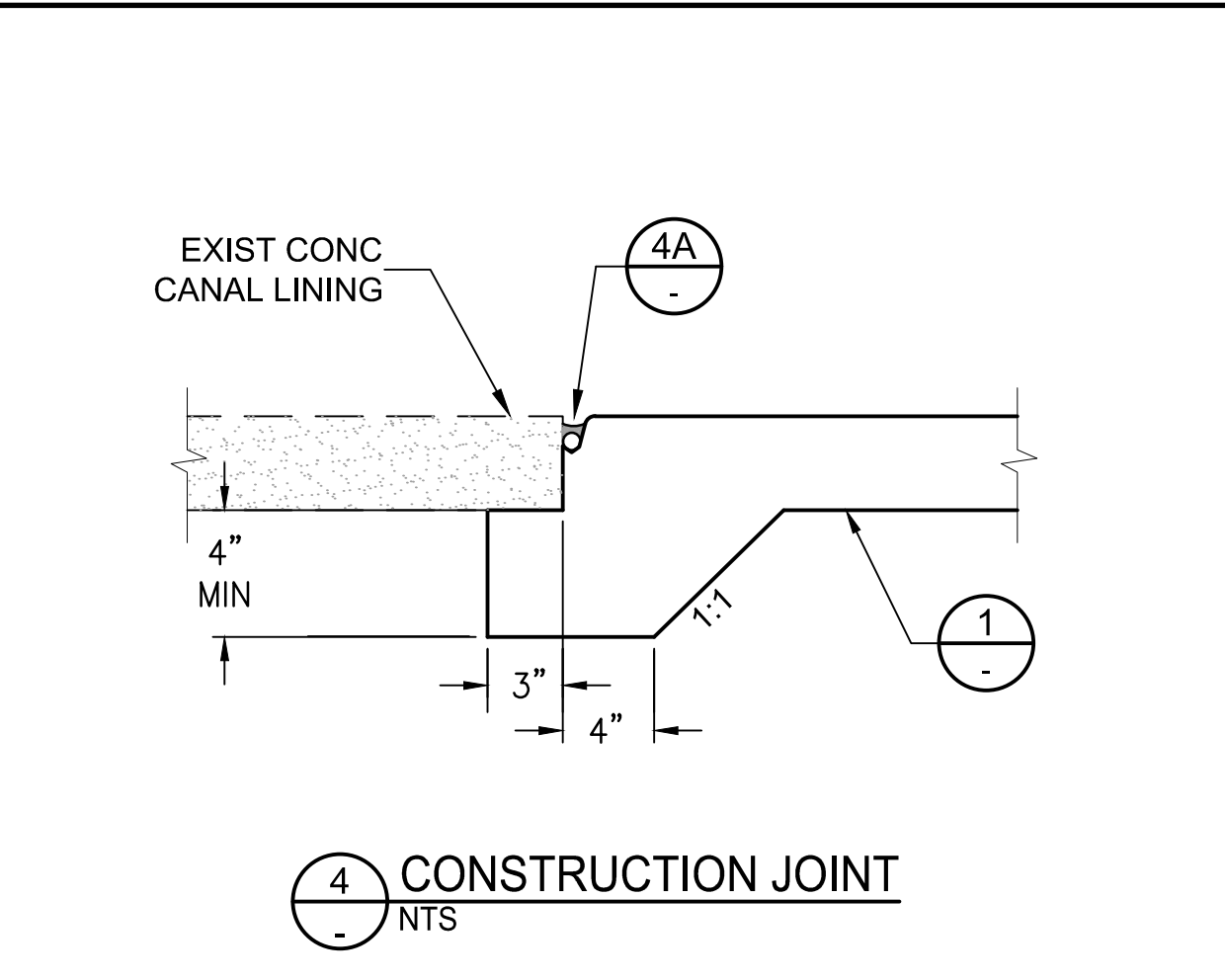
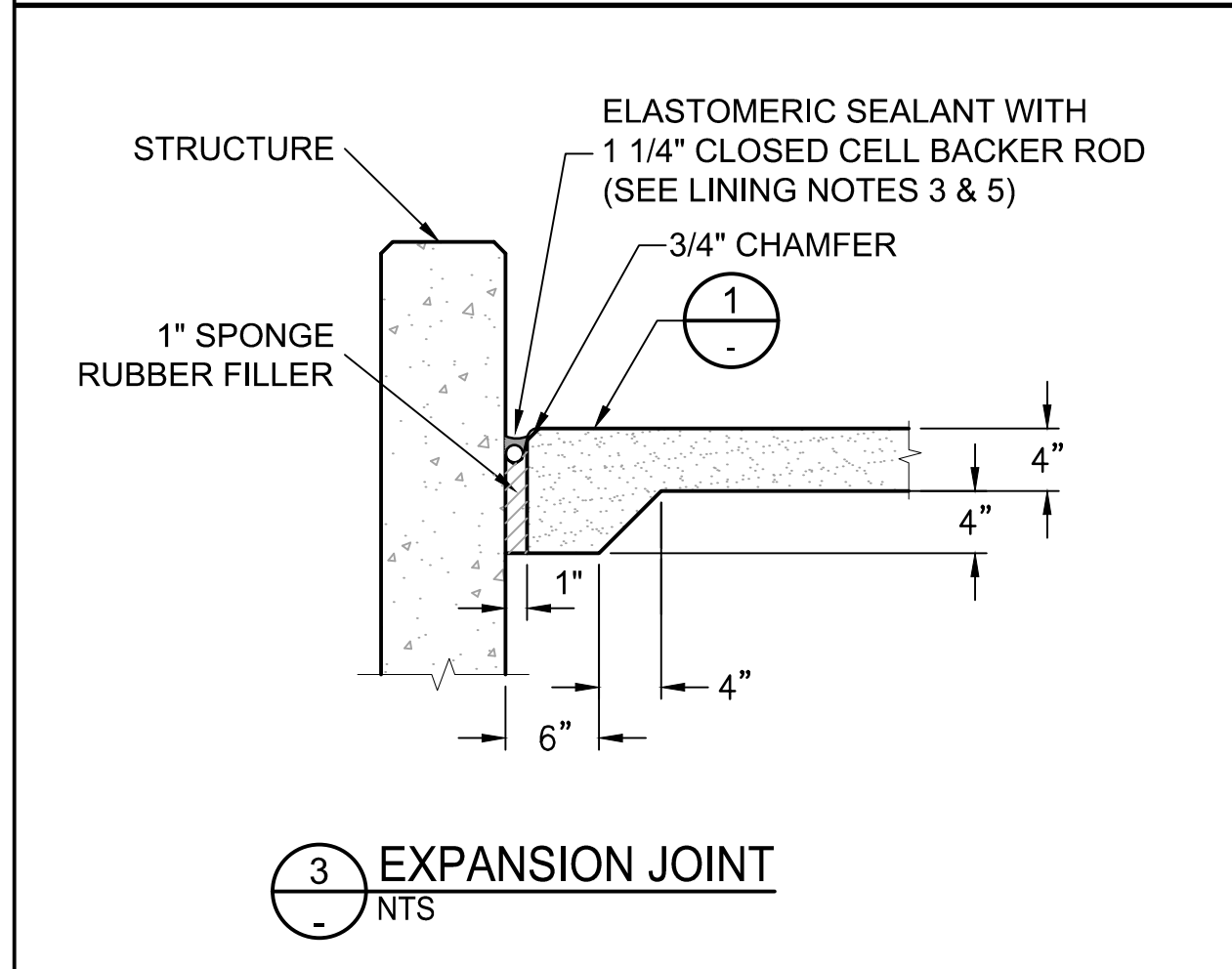
- Earthwork Notes**
- COMMON FILL AND BACKFILL SHALL BE PLACED AND COMPACTED TO 90% MIN UNIFORM DENSITY PER MAG STD SPECIFICATIONS 211.2 AND 211.3.
 - COMPACTED FILL AND BACKFILL SHALL BE PLACED AND COMPACTED TO 95% MIN UNIFORM DENSITY PER MAG STD SPECIFICATIONS 211.2 AND 211.3.
 - SEE RID GRADING NOTES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



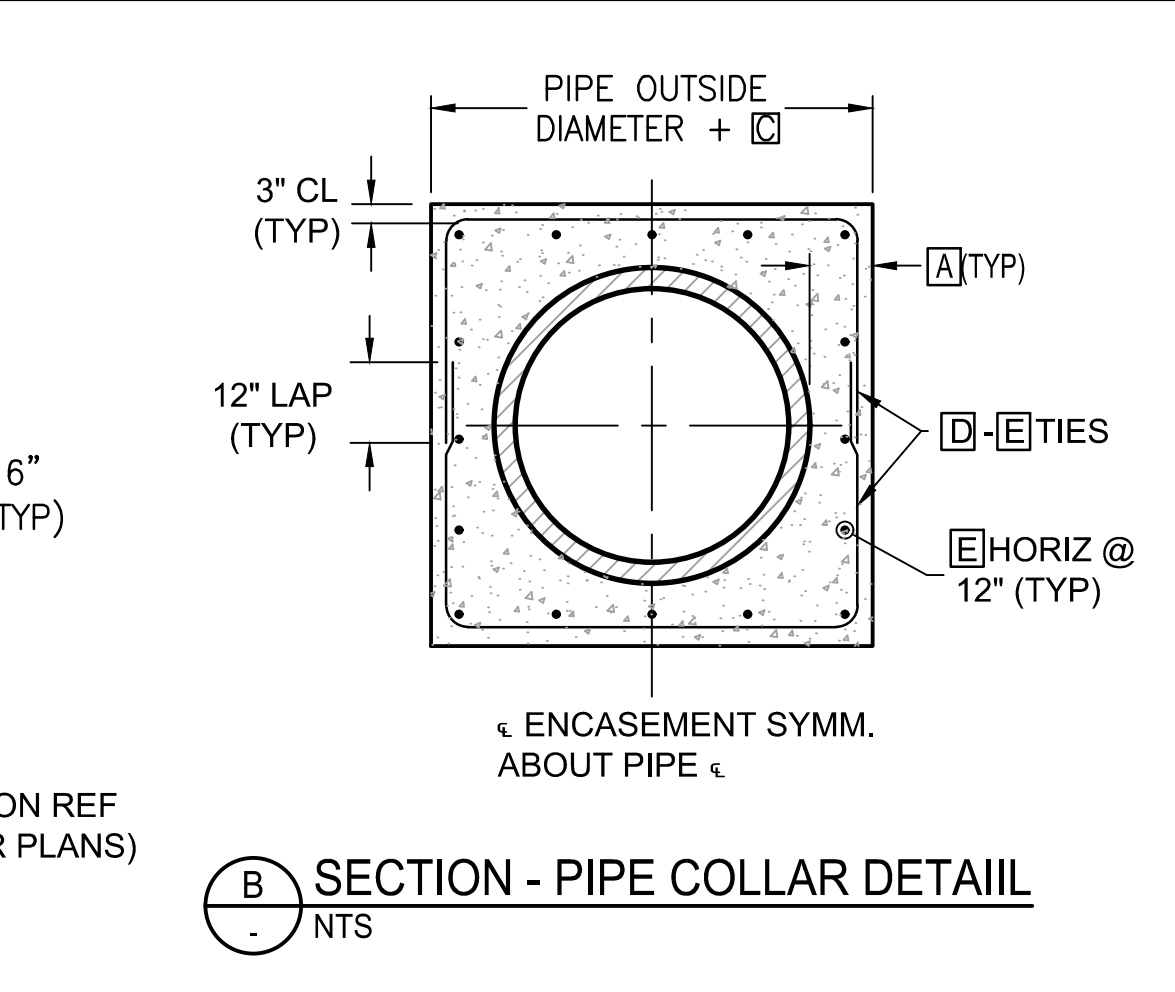
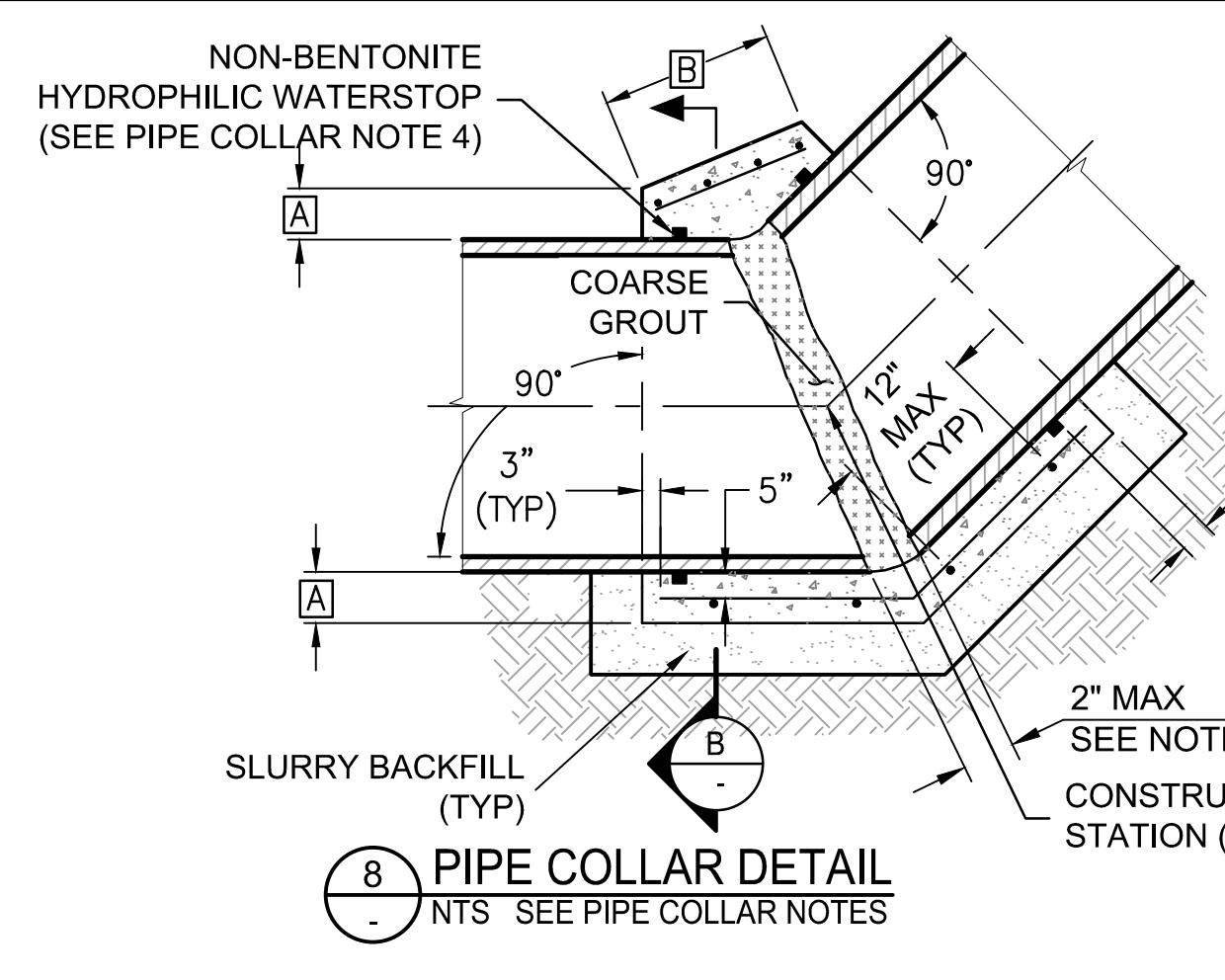
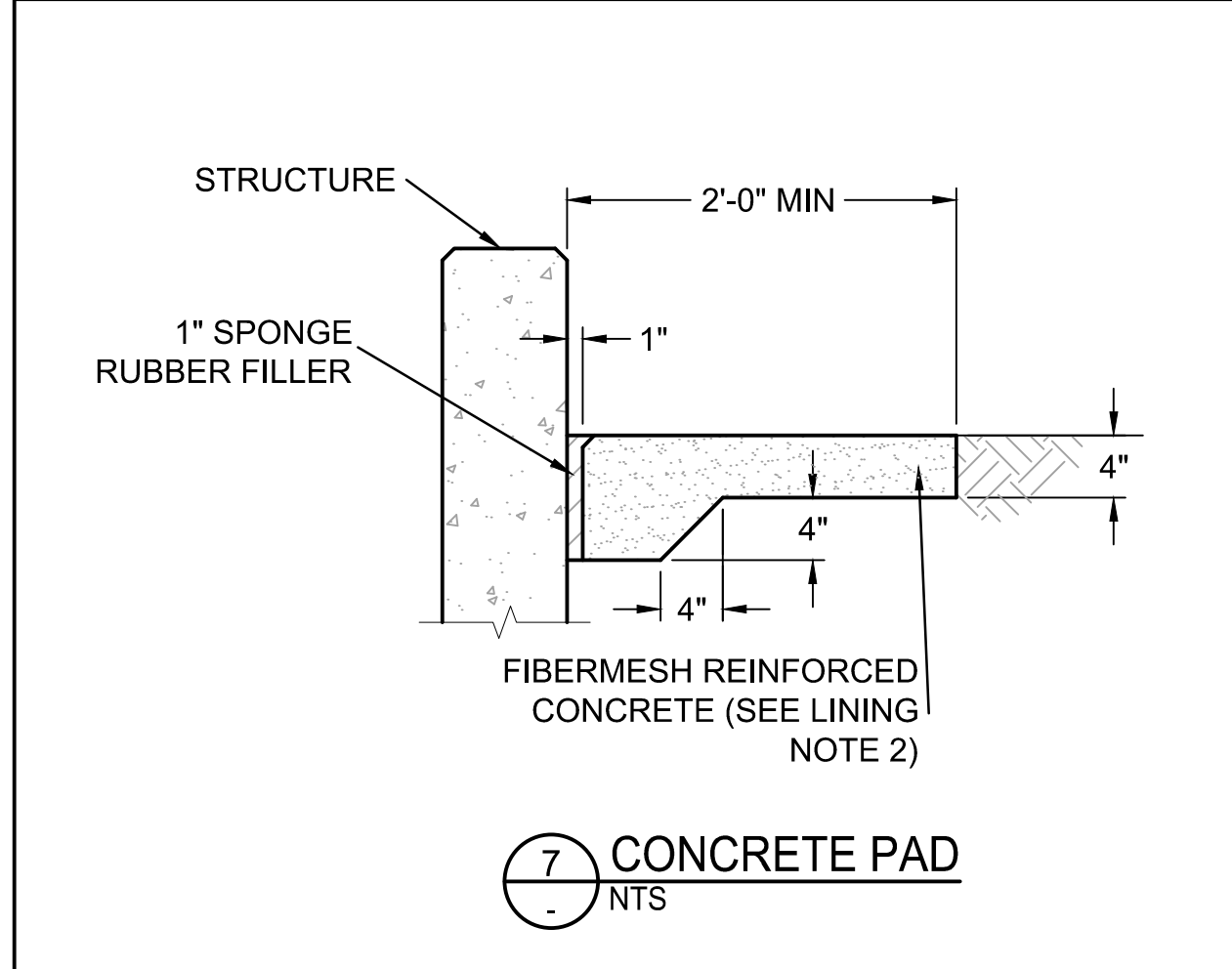
B (BOTTOM)	R
1'-0"	3" MIN
2'-0"	12" MIN



- 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:
 - SPECIFIC GRAVITY 0.91
 - TENSILE STRENGTH 55 ksi
 - 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.

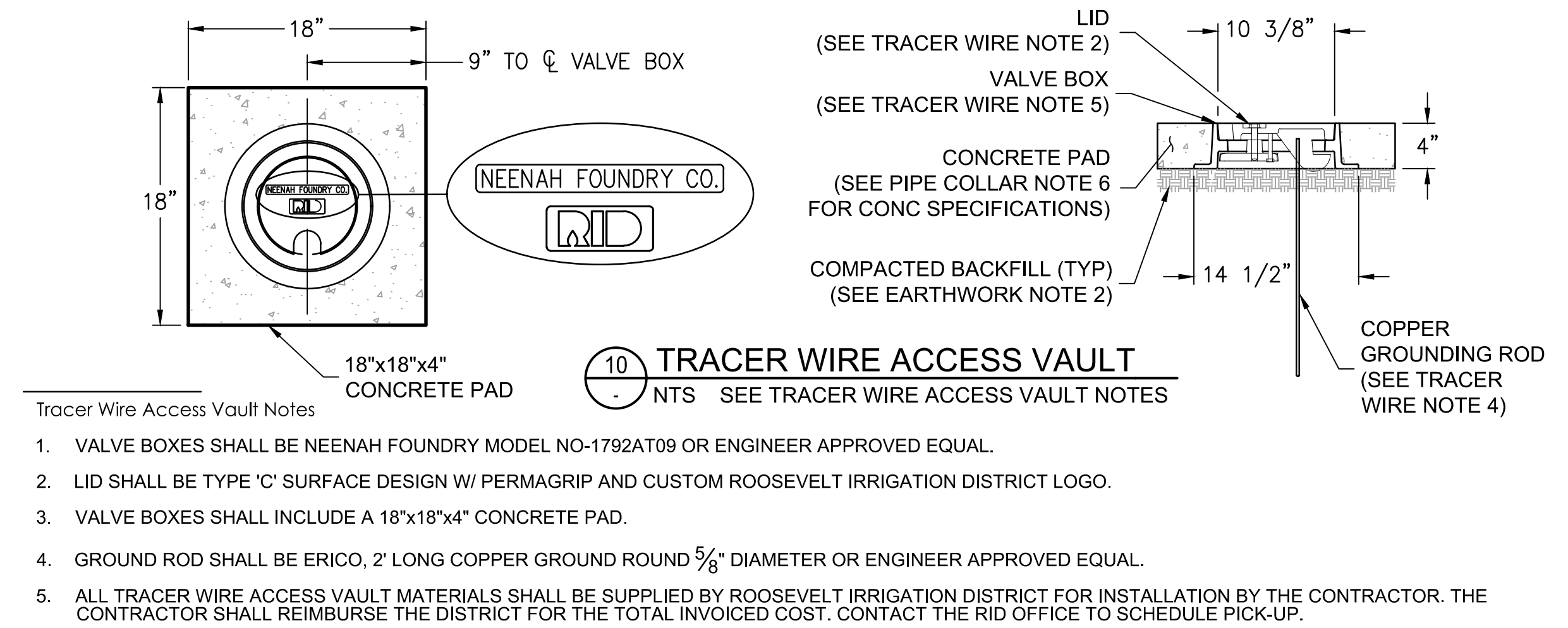
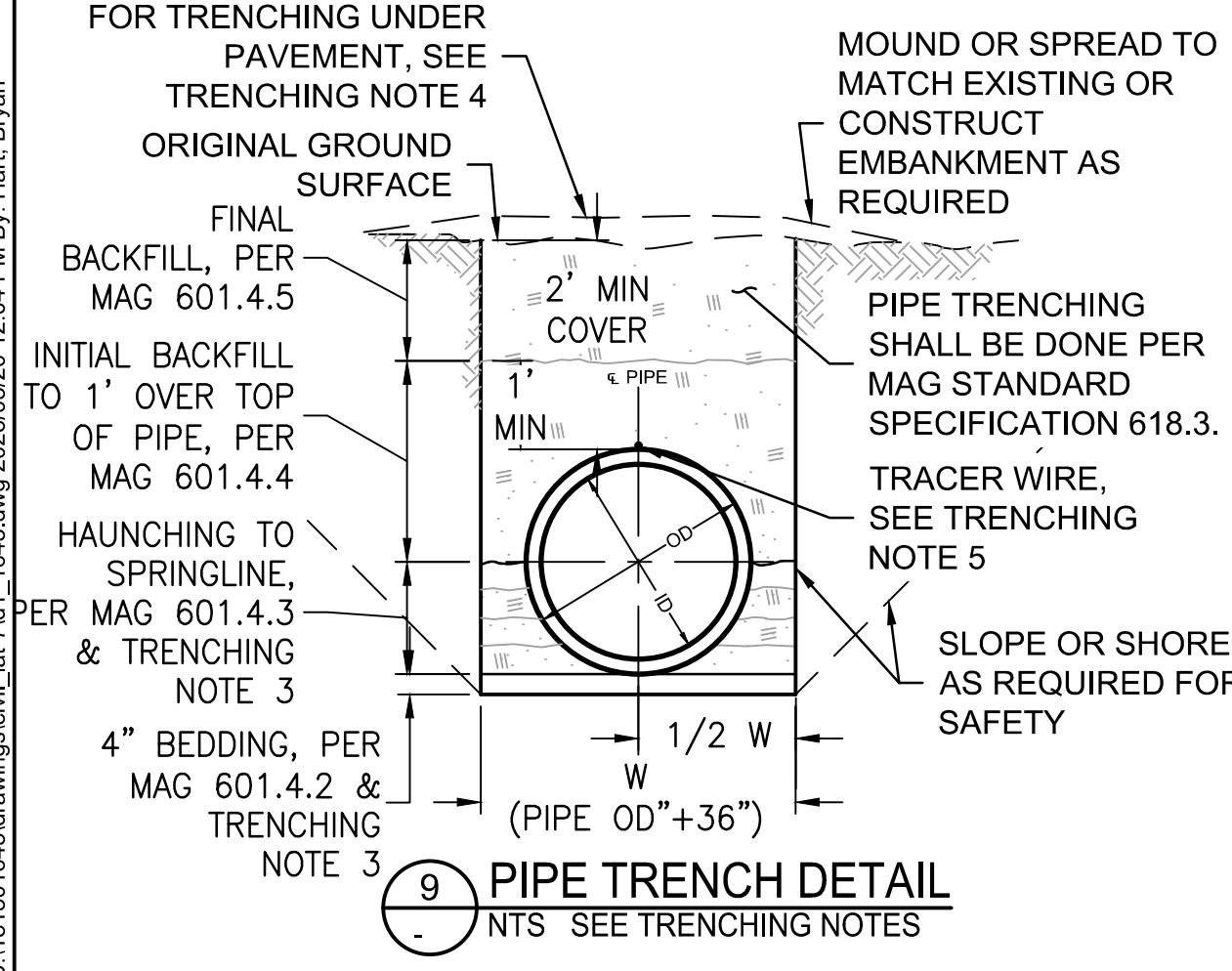


- Trenching Notes**
- CONTRACTOR'S CHOOSING TO COMPACT HAUNCHING AREA BY WATER CONSOLIDATION METHOD SHALL BE REQUIRED TO GIVE PROPER NOTICE TO RID'S CONSTRUCTION OBSERVER SUCH THAT CONFORMANCE TO MAG STD SPEC 601.4.7 IS OBSERVED.
 - BACKFILL MATERIAL SHALL BE PLACED IN LIFTS AS DESIGNATED IN THE PIPE 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:
 - FULL DEPTH ABC-BACKFILL
 - 6" MIN PIPE BEDDING
 - COMPACT PER MAG STD SPEC 601.4-TYPE 1
 - 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.



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.



- Tracer Wire Access Vault Notes**
- VALVE BOXES SHALL BE NEENAH FOUNDRY MODEL NO-1792AT09 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.

Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: D1_1643.DWG
Dwn: HAR/UBH
Chkd: GGB
Dsgn: CTS
MM.DD.YY: 03.20.26

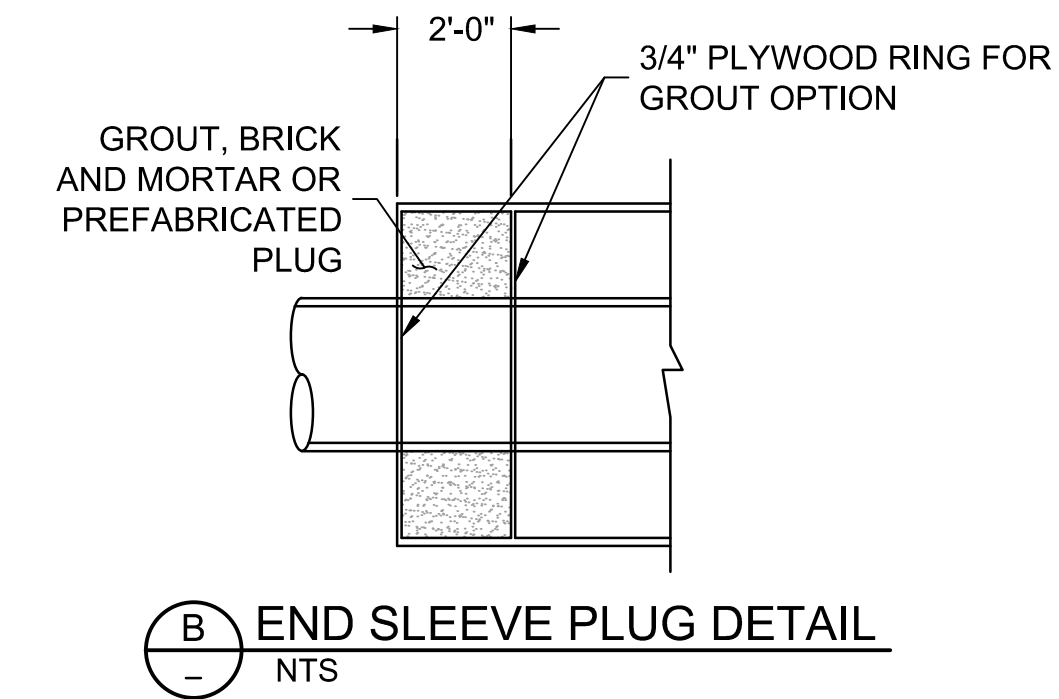
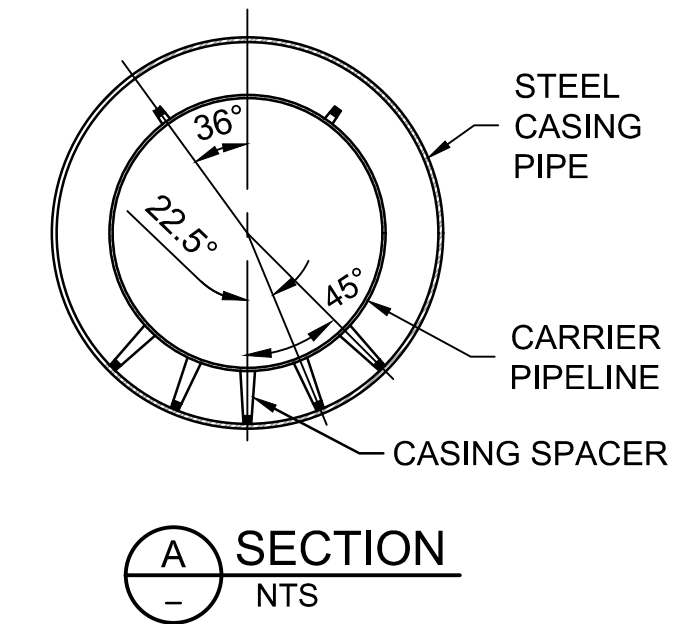
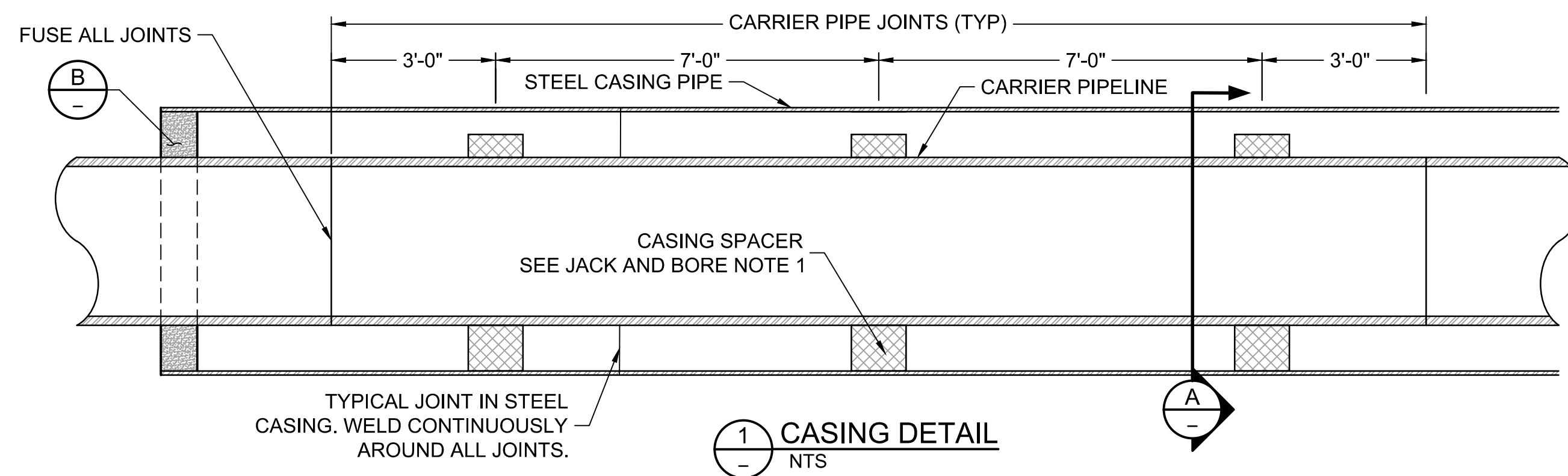
Permit Seal
70263 CAMERON T SMITH
Expires 12/31/2028

Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
TYPICAL SECTIONS & DETAILS I

Project No.	181301643	Scale	AS SHOWN
Drawing No.	D-1	Sheet	56 of 61
		Revision	0

U:\181301643\Drawings\civil\lat-7\1643.dwg, 2/26/2025 12:04 PM By: Harl, Bryan



JACK AND BORE NOTES:

- JACK AND BORE PER MODIFIED MAG STD SPECIFICATION 602 AS NOTED BELOW:
 - ADVANCE CASING SPACER OR APPROVED EQUIVALENT.
 - TWO BLOCK ANGLES VARY TO MAINTAIN REQUIRED CLEARANCES AND PROPER INSTALLATION.
 - CARRIER PIPE SHALL BE FUSIBLE C900 PVC. CARRIER PIPE JOINTS SHALL BE RESTRAINED VIA FUSION.
 - END SLEEVE PLUG SEE DETAIL C THIS SHEET.
 - STEEL CASING PIPE SHALL BE 7/8" MINIMUM WALL PIPE THICKNESS
 - ALL STEEL CASING SHALL BE WELDED CONTINUOUSLY AT ALL JOINTS
 - ALL STEEL CASING PIPE: PROVIDE FUSION BOND EPOXY (FBE) PROTECTIVE COATING THICKNESS OF 14 MIL AND ABRASION RESISTANT OVERLAY (ARO) COATING THICKNESS OF 16 MIL APPLIED FOR A NOMINAL COATING THICKNESS OF 30 MIL.
- BORE AND RECEIVING PITS MUST BE BERMED TO THE TOP OF CANAL ELEVATION. THE SIDESLOPES SPECIFIED WILL NOT BE STEEPER THAN 2:1.

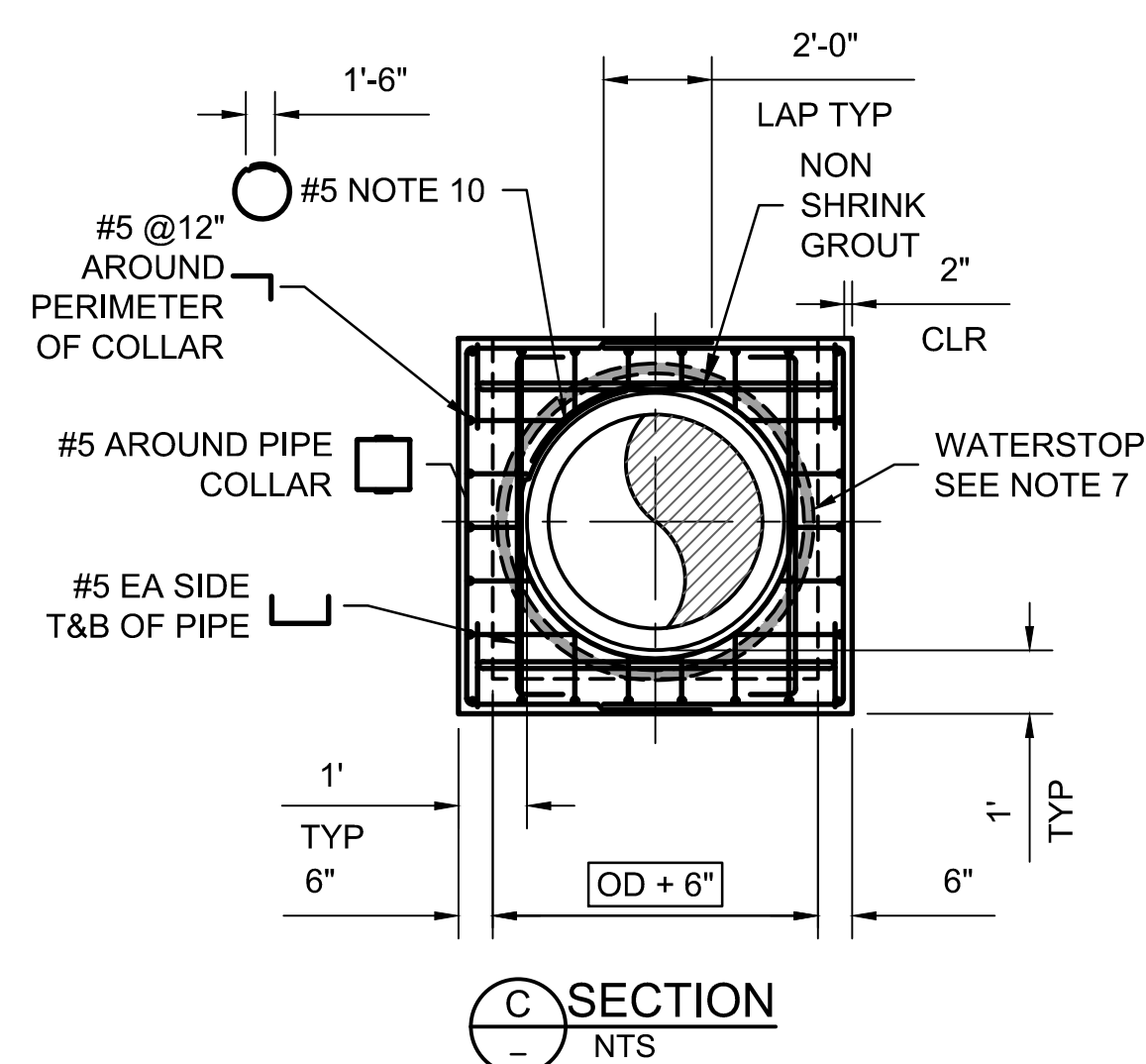
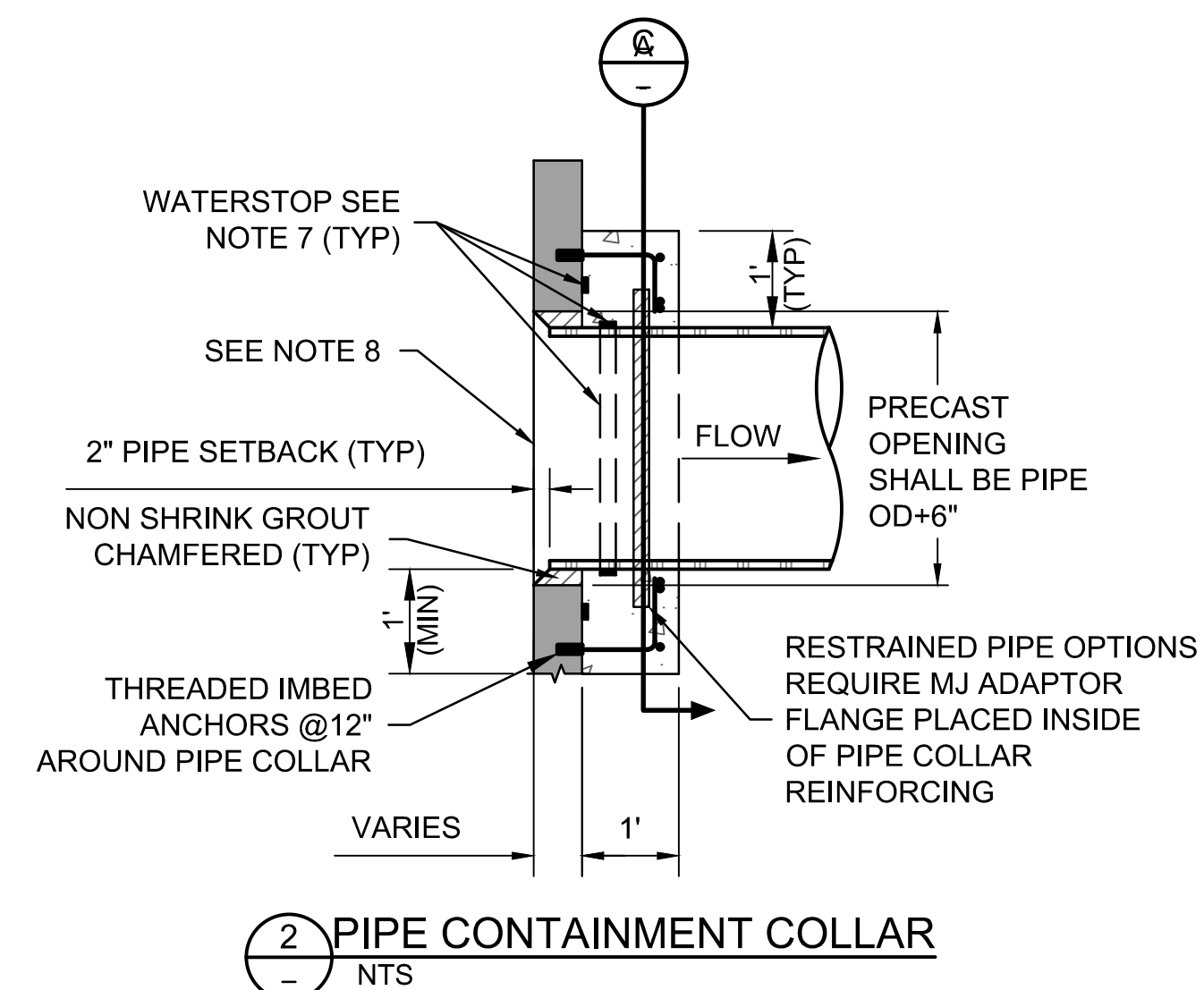
- ALL AFFECTED PORTIONS OF THE DISTRICT'S R/W, INCLUDING ROAD SURFACES, SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER.
- COMPLETELY REMOVE ALL DIRT AND DEBRIS AFTER COMPLETION OF JACK AND BORE CONSTRUCTION.
- ANNULAR SPACES TO BE FILLED PER MAG 602.
- CONTRACTOR SHALL SUBMIT BORING LOGS BEFORE A FINAL ACCEPTANCE CAN BE GRANTED.

EARTHWORK NOTES:

- COMPACTED FILL AND BACKFILL SHALL BE PLACED AND COMPACTED TO 95% MIN UNIFORM DENSITY PER MAG STD SPECIFICATIONS 211.2 THROUGH 211.3.

GENERAL NOTES:

- ALL CONSTRUCTION PLANS MUST BE REVIEWED AND APPROVED BY THE IRRIGATION DISTRICT.
- A DISTRICT "LICENSE TO CONSTRUCT" OR "RIGHT-OF-WAY CROSSING PERMIT" MUST BE OBTAINED BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
- ALL CONSTRUCTION WORK MUST BE SCHEDULED AND COORDINATED WITH THE DISTRICT'S CONSTRUCTION OBSERVER AT (602) 284-7017.
- ALL CONSTRUCTION SCHEDULING WILL BE APPROVED BY THE IRRIGATION DISTRICT. THE DISTRICT MAY REQUIRE JACK AND BORE OPERATIONS TO BE COMPLETED DURING THE ANNUAL DRY-UP.
- EXISTING DISTRICT FACILITIES MUST REMAIN OPERATIONAL, AND SHALL NOT BE DISTURBED OR RENDERED INACCESSIBLE TO DISTRICT OPERATIONS AND MAINTENANCE STAFF UNTIL CONSTRUCTION HAS BEEN COMPLETED AND ACCEPTED AS ADEQUATE BY THE DISTRICT.
- ALL CONSTRUCTION INCLUDING, BUT NOT LIMITED TO: EQUIPMENT, FENCING, SPOILS, ETC. MUST REMAIN OUTSIDE OF DISTRICT R/W UNLESS OTHERWISE APPROVED BY THE DISTRICT.



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.
- 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).
- SAWCUT END OF PIPE AND PLACE 2" BACK FROM INSIDE FACE OF WALL. BLAST CLEAN TO ROUGHEN CUT PIPE AND COAT WITH EPOXY COATING (SIKADOR 31, HI-MOD GEL (OAE).



Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.6100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: D1_1643.DWG HARUBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal

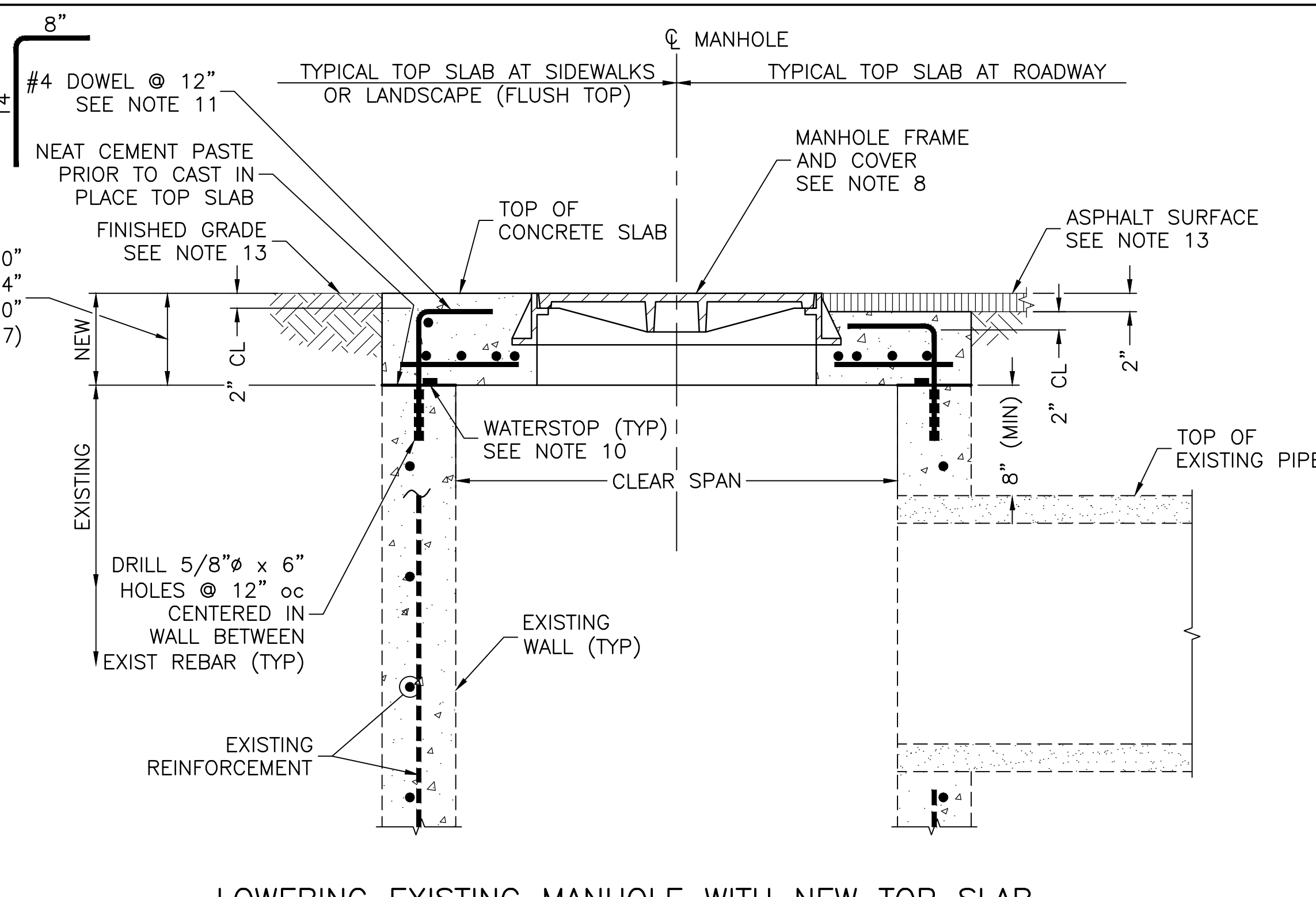
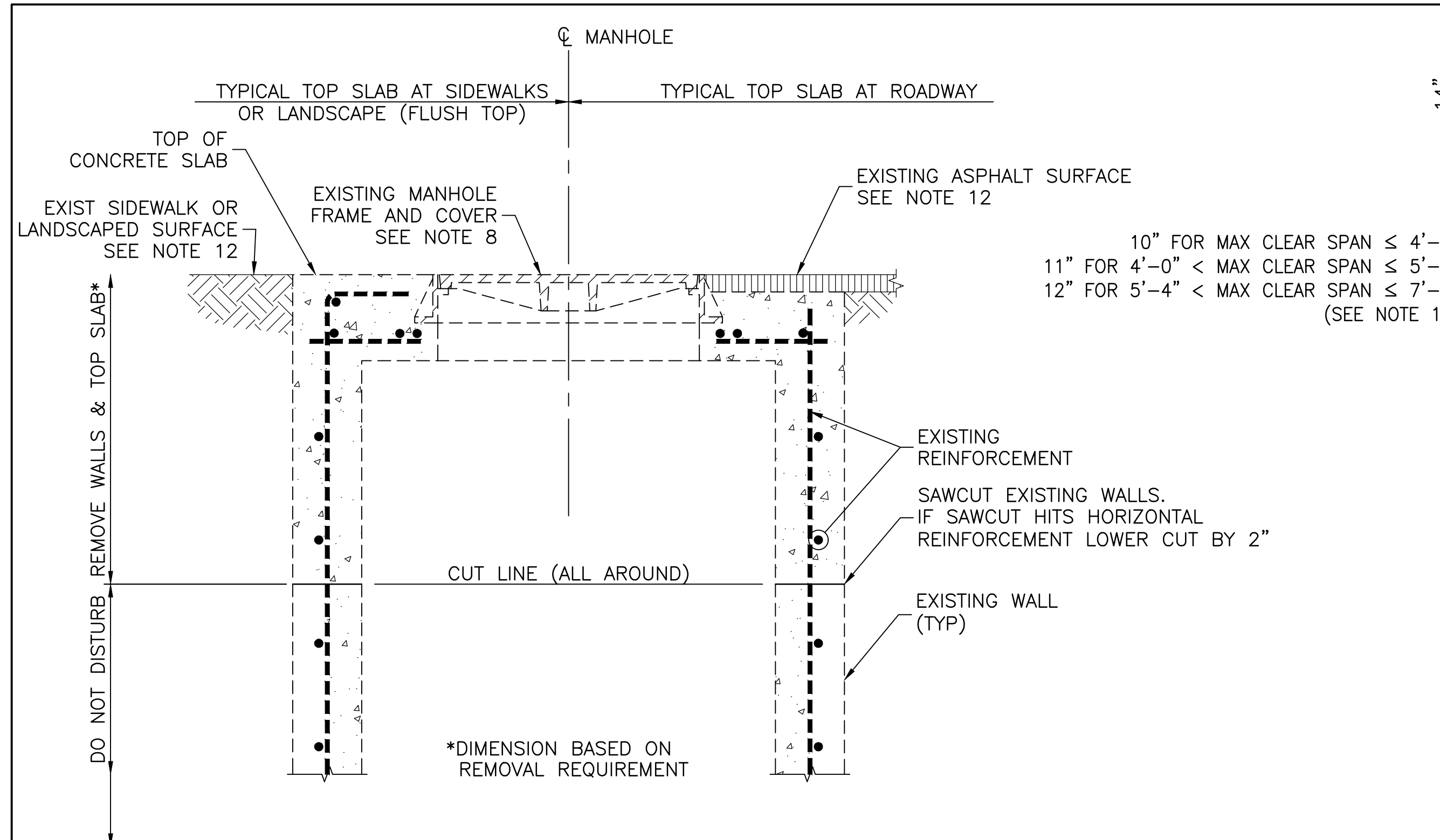


Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**

ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

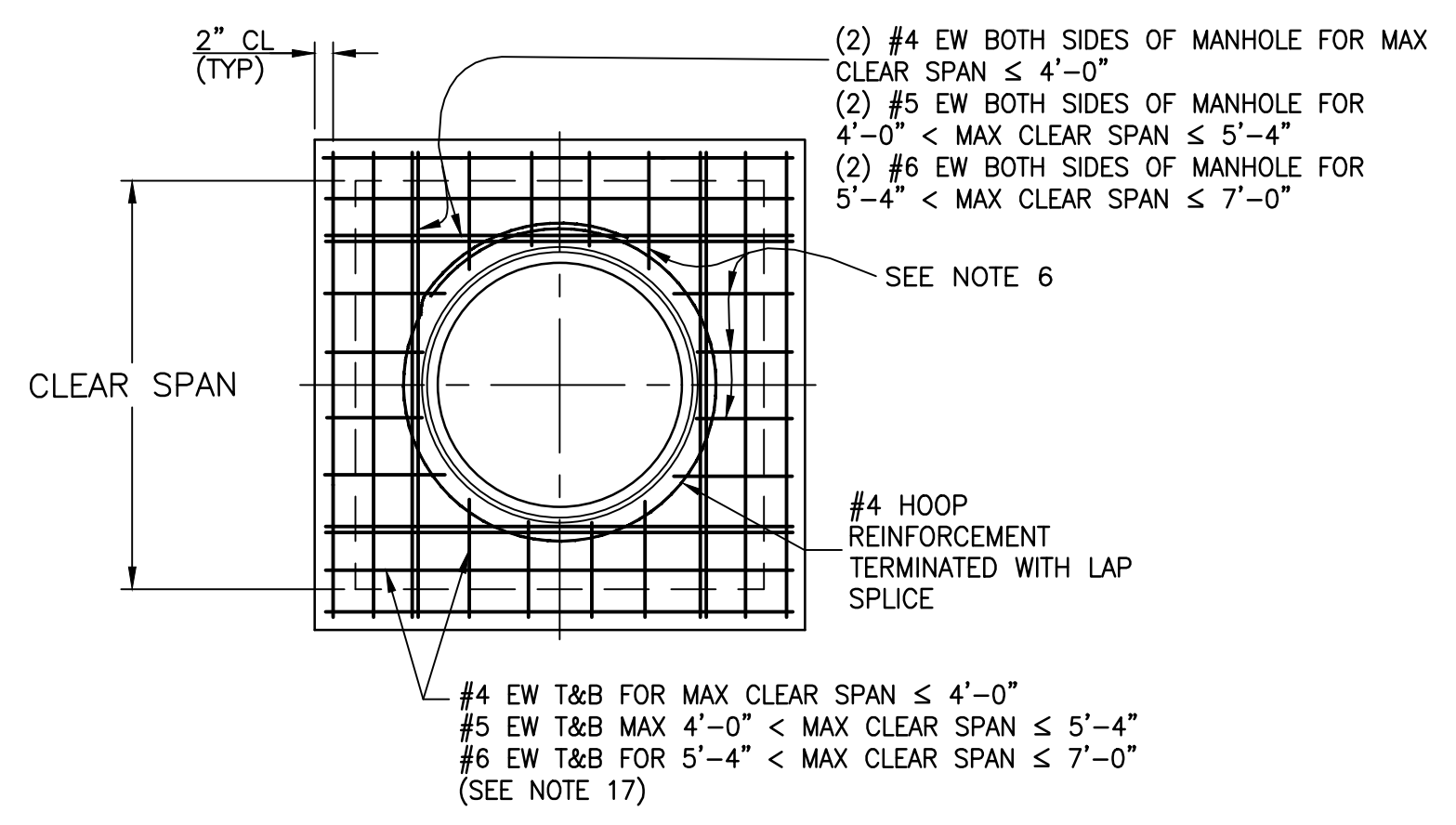
Title
TYPICAL SECTIONS & DETAILS II

Project No. 181301643	Scale AS SHOWN
Drawing No. D-2	Sheet 57 of 61
	Revision 0

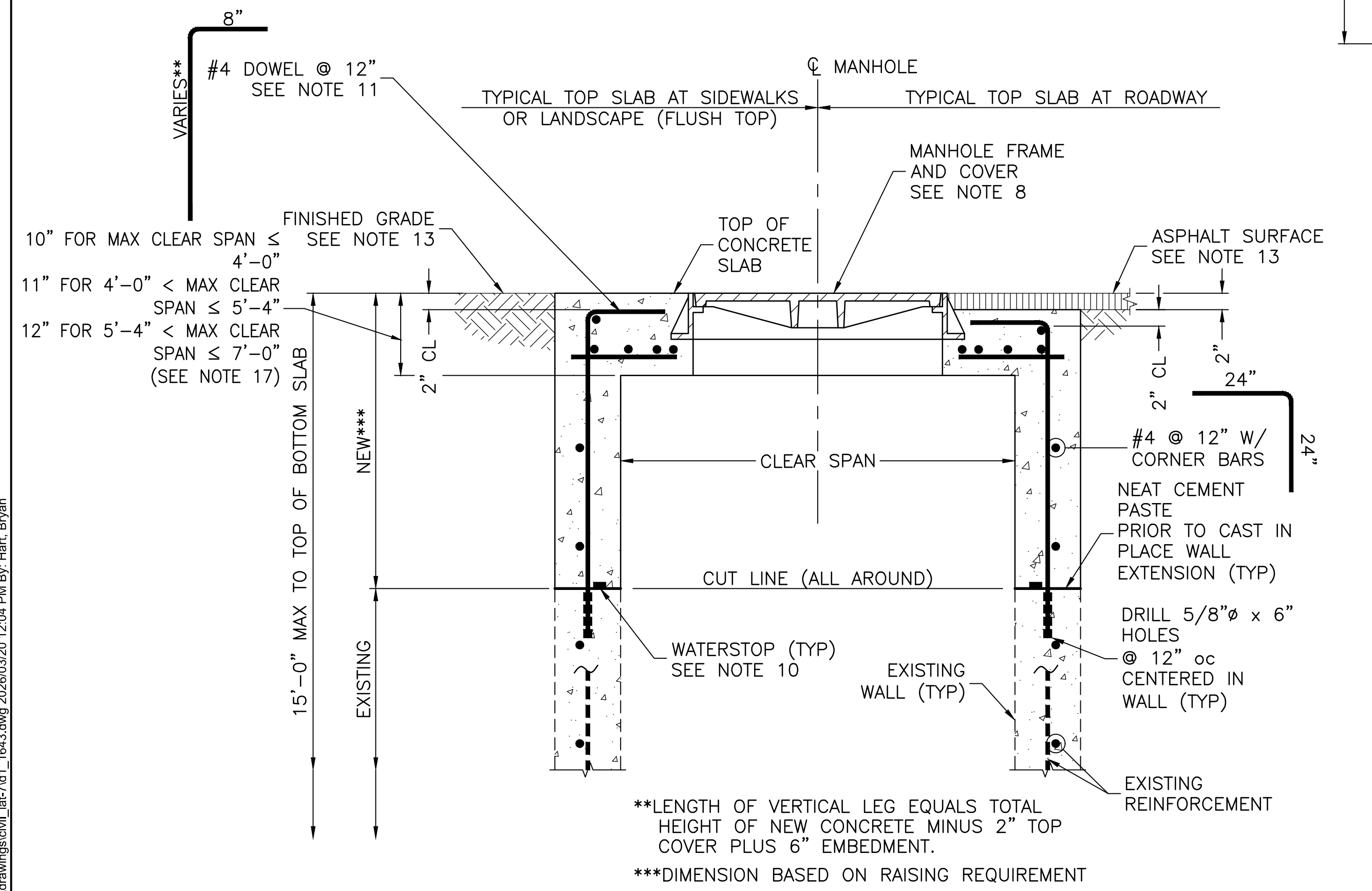


REMOVAL OF WALLS AND TOP SLAB OF EXISTING MANHOLE
NOTE: STANDARD MANHOLE SHOWN. OPEN TOP MANHOLE SIMILAR
NTS

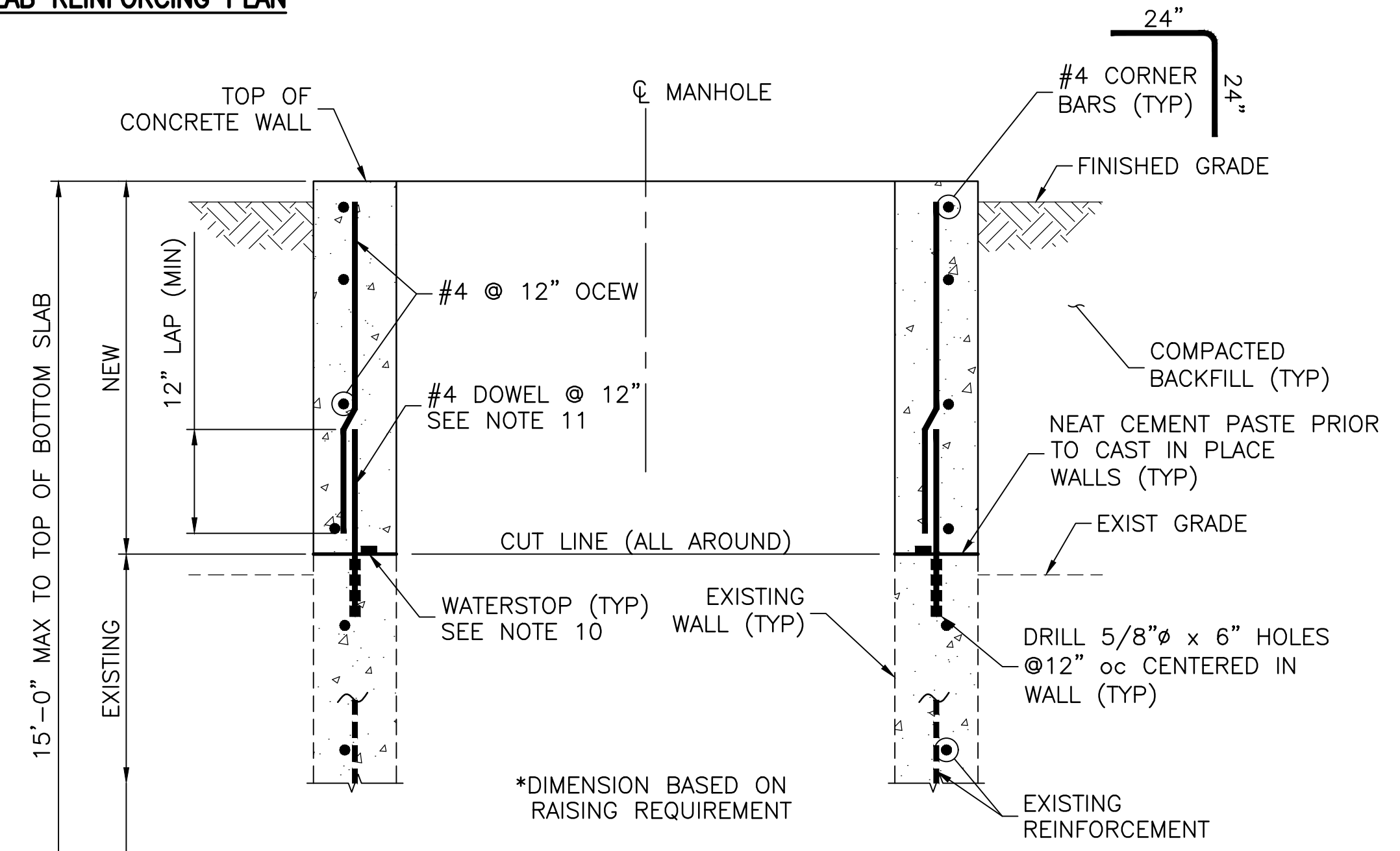
LOWERING EXISTING MANHOLE WITH NEW TOP SLAB
NTS



TOP SLAB REINFORCING PLAN
NTS



RAISING EXISTING MANHOLE WITH NEW TOP SLAB
NTS



RAISING EXISTING MANHOLE WITH OPEN TOP
NTS

- Notes
- ALL STRUCTURAL CONCRETE SHALL BE CLASS AA (4000 PSI) PER MAG SPECIFICATION SECTION 725.
 - REINFORCING STEEL BARS SHALL CONFORM TO ASTM A615 GRD 60.
 - NEW CONCRETE SHALL BE PLACED WITH NO COLD JOINTS. ALL CONCRETE SHALL BE VIBRATED DURING PLACEMENT.
 - CHAMFER EDGES OF PERMANENTLY EXPOSED CONCRETE EDGES WITH A 45° BEVEL, 3/4" x 3/4".
 - EXACT ELEVATION OF ROADWAY SURFACE OR SIDEWALK TO BE SET BY DEVELOPER'S ENGINEER.
 - EXACT ELEVATION OF TOP OF MANHOLE SHALL BE SET BASED UPON FINISHED GRADE ELEVATION.
 - FIELD CUT REBAR AT MANHOLE.
 - USE OF SALVAGED MANHOLE FRAME AND COVER CONTINGENT UPON RID CONSTRUCTION OBSERVER'S APPROVAL. SEE NOTE 16 IF SALVAGED MANHOLE FRAME AND COVER DO NOT MEET RID CONSTRUCTION OBSERVER'S APPROVAL REQUIREMENTS.
 - CENTER MANHOLE COVER IN TOP OF MANHOLE.
 - 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).
 - 6" EMBEDMENT. APPLY SIMPSON SET-3G EPOXY OR EQUIVALENT PER MANUFACTURER'S INSTRUCTIONS.
 - REMOVE EXISTING ASPHALT OR LANDSCAPED SURFACE AS REQUIRED.
 - PROVIDE ASPHALT OR LANDSCAPED SURFACE AS REQUIRED.
 - THE CONTRACTOR SHALL CONTACT STEVE GARCIA AT RID FOR INFORMATION REGARDING AN IRRIGATION OUTAGE FOR CONSTRUCTION. (623)386-2046.
 - THE CONTRACTOR SHALL CONTACT RID'S CONSTRUCTION OBSERVER AT (602)284-7017, 14 DAYS PRIOR TO BEGINNING WORK FOR SCHEDULING OF CONSTRUCTION INSPECTION.
 - 30" 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.
 - FOR RECTANGULAR TOP SLABS, DESIGN BASED ON THE MAXIMUM CLEAR SPAN IN EITHER DIRECTION, WHERE THE MAXIMUM CLEAR SPAN OF NEW MANHOLE TOP SLAB EXCEEDS 7'-0". REVIEW AND ANALYSIS BY A STRUCTURAL ENGINEER SHALL BE REQUIRED.

Stantec
Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.8100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: D1_1843.DWG HARUBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal
70263 CAMERON T. SMITH
03/20/26
Expires 12/31/2028

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**

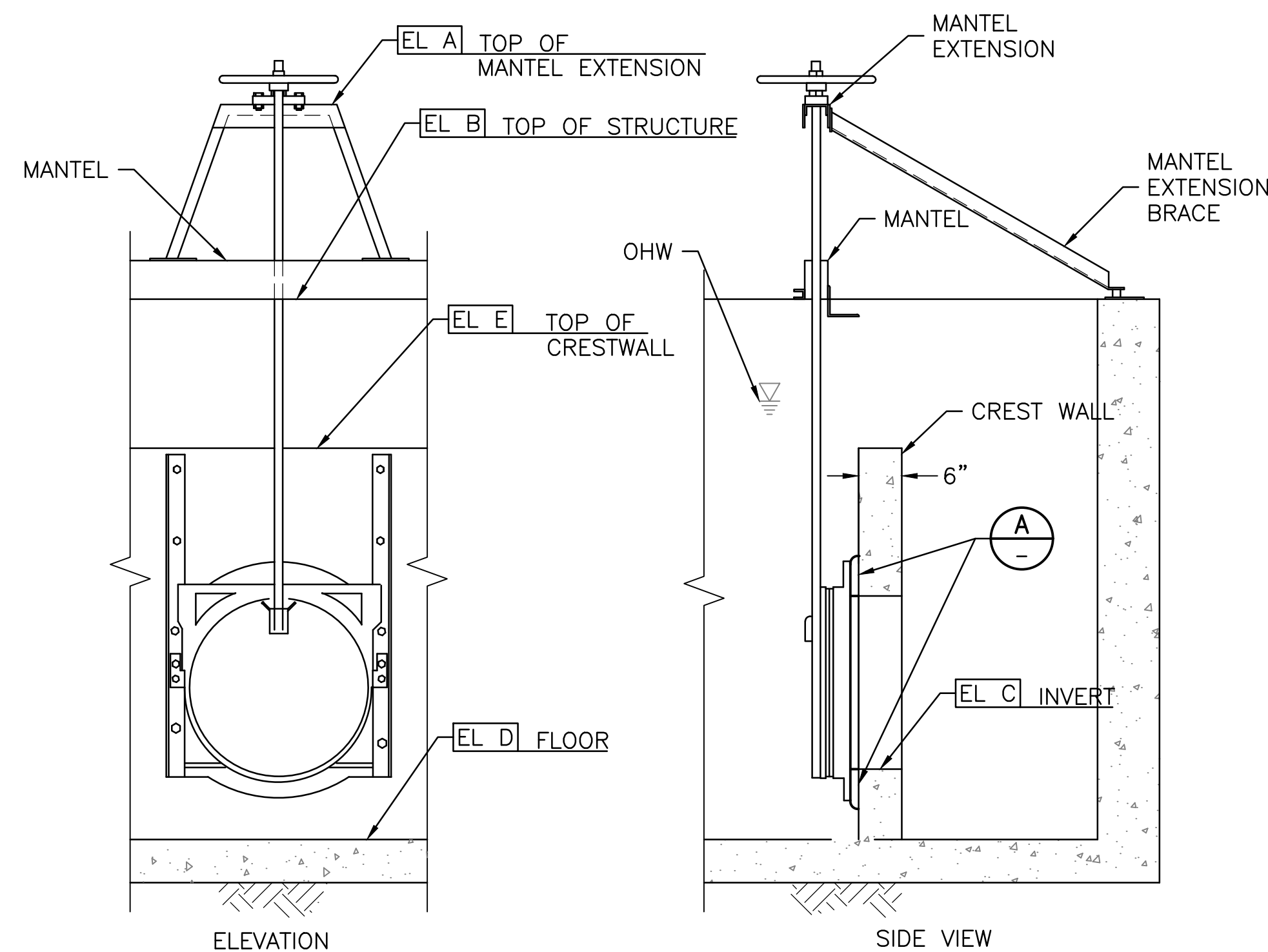
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
MANHOLE ADJUSTMENT DETAILS

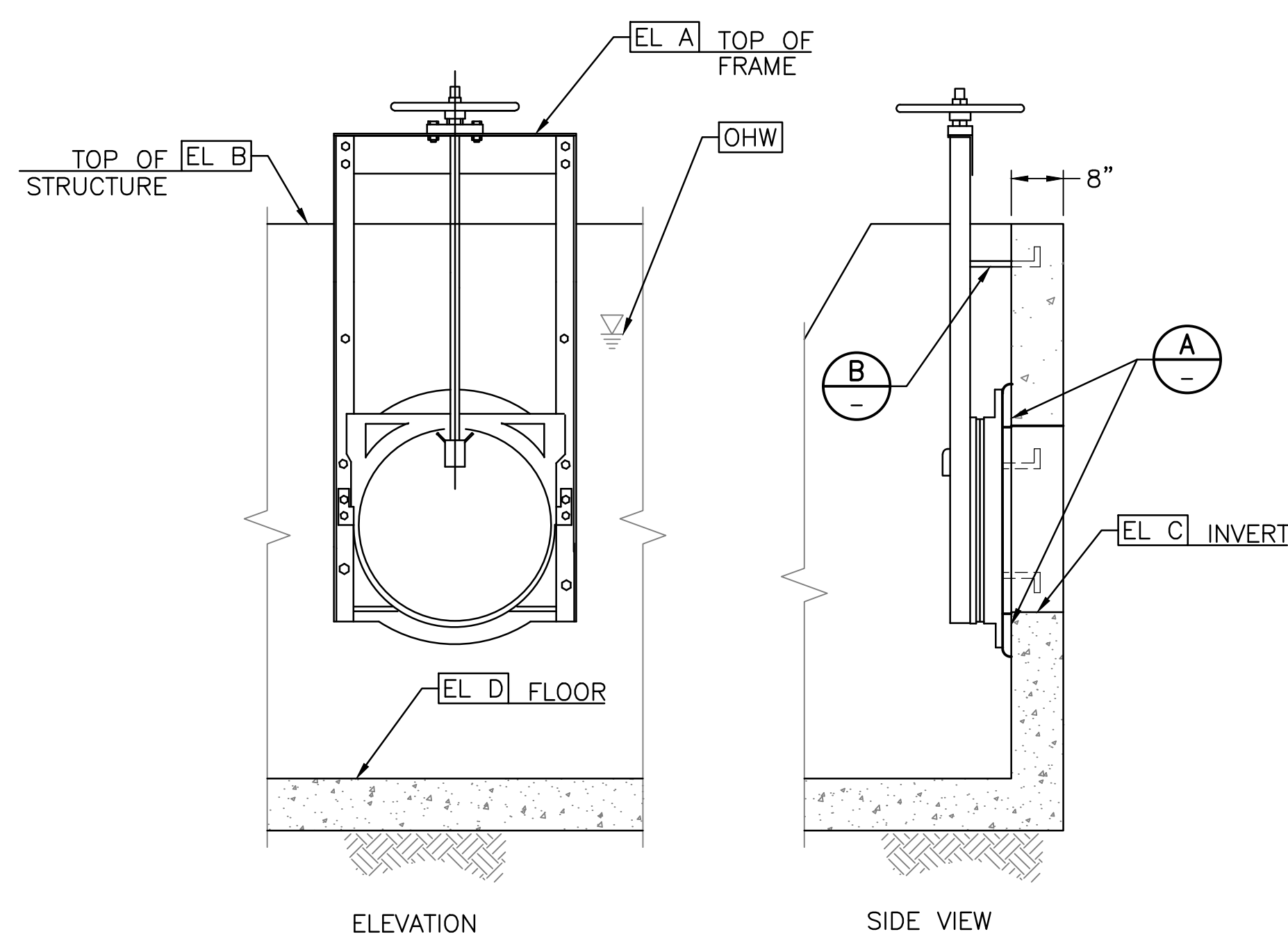
Project No. 181301643 Scale AS SHOWN
Drawing No. Sheet Revision
D-3 58 of 61 0

U:\181301643\Drawings\civil\lat-7\1_1843.dwg 2026/03/20 12:04 PM By: Hart, Bryan

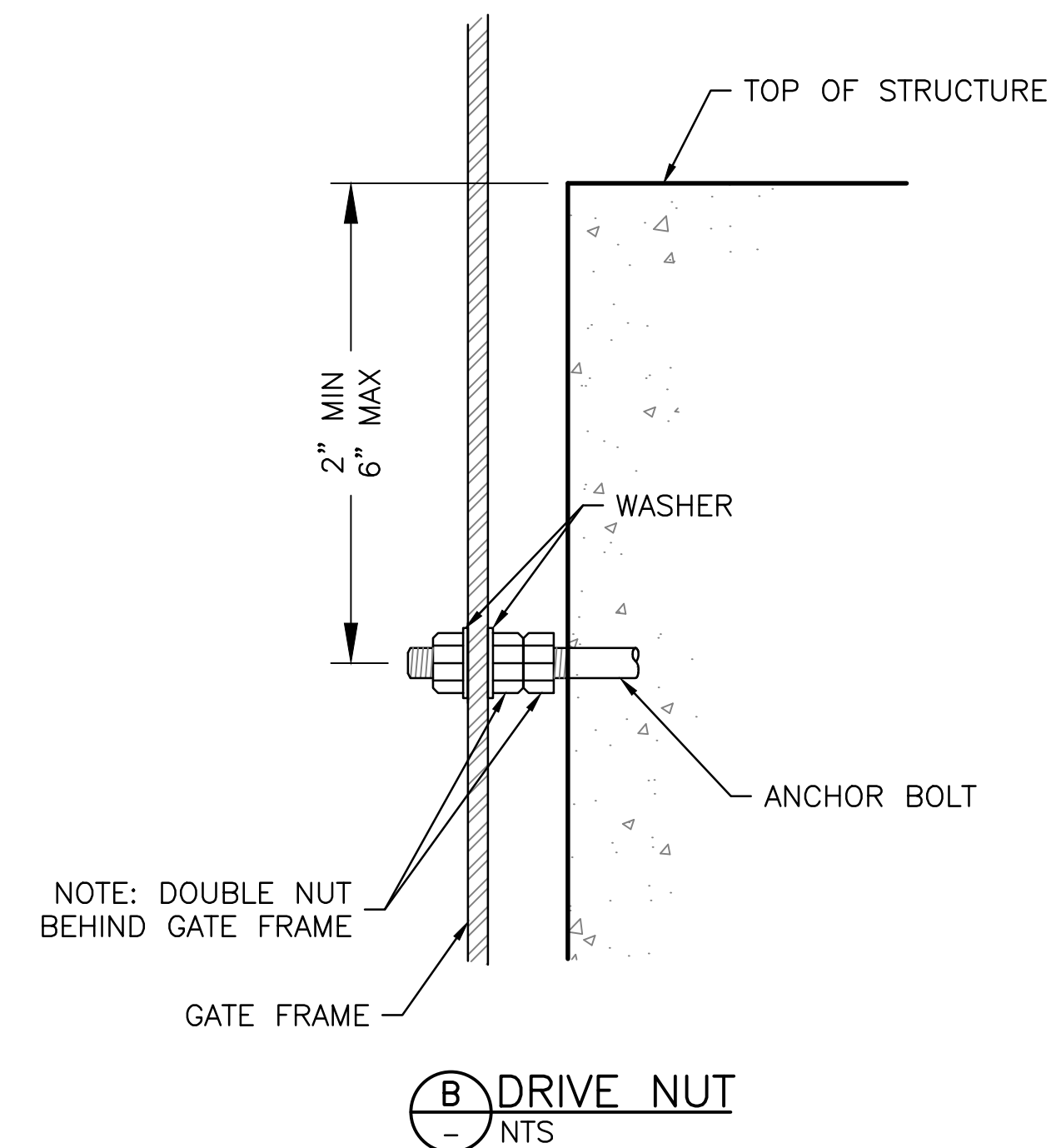
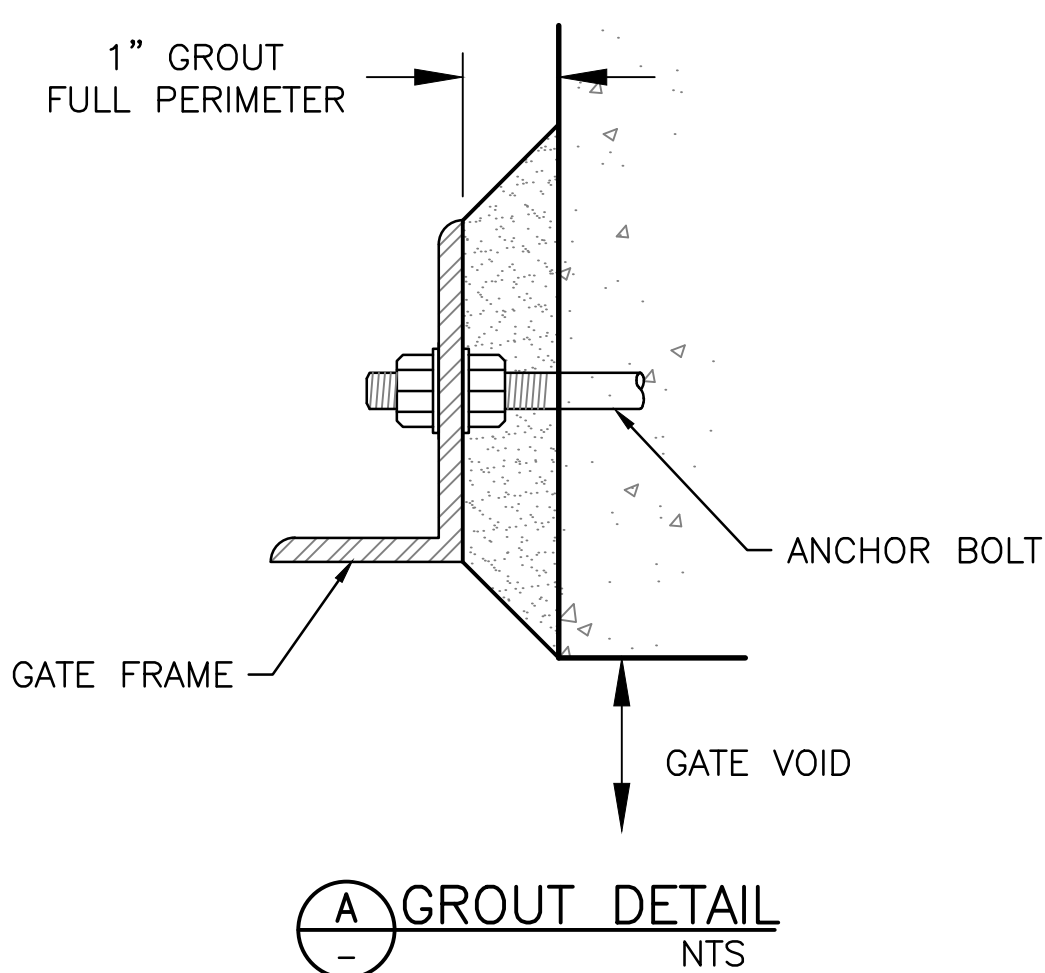
STRUCTURE No	STRUCTURE SHEET No	DELIVERY GATE DESIGNATION	GATE TYPE	GATE SIZE	MINIMUM HANDWHEEL DIAMETER	ELEVATIONS					
						OHW	EL A	EL B	EL C	EL D	EL E
7-10S	S-8	N/A	ROUND	24"	14"	952.80	958.00	955.20	946.50	945.50	951.50
DIVISION STRUCTURE No 1	S-7	NORTH	ROUND	18"	14"	950.50	953.10	952.50	946.30	945.30	-
DIVISION STRUCTURE No 1	S-7	SOUTH	ROUND	18"	14"	950.50	953.10	952.50	946.30	945.30	-



1 CANAL GATE ON CREST WALL
NTS



2 CANAL GATE
NTS



General Notes

- FABRICATED A316 STAINLESS STEEL GATE(S) SHALL BE OBTAINED DIRECTLY FROM THE GATE MANUFACTURER BY THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FROM THE GATE MANUFACTURER TO THE OWNER'S ENGINEER FOR REVIEW AND APPROVAL.
- INSTALL GATES PER MFG RECOMMENDATIONS. EMBEDMENT OF ANCHORS SHALL BE TO THE FULL LENGTH OF THE ANCHOR.
- ALL GATES MUST BE INSTALLED PLUMB, TRUE AND SQUARE. MUST OPERATE WITH EASE.
- ALL GATES TO BE FIELD DRILLED & FASTENED MIN 2" CLR FROM STRUCTURE EDGE. SEE DETAIL A.

Canal Gate Notes

- CANAL GATES SHALL BE FRESNO SERIES 6600 MODEL 101C SLIDE GATE (ROUND - LOW HEAD CAST IRON SLUICE GATE) MEETING THE FOLLOWING MIN SPECIFICATIONS:
 - FINISH: CLEAR EPOXY POWDER COATING
 - MOUNTING: FLATBACK FOR HEADWALL MOUNTING
 - SEATING SURFACES: BRONZE
 - PRESSURE RATING: 20 FOOT MAX SEATING HEAD

Stantec
Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

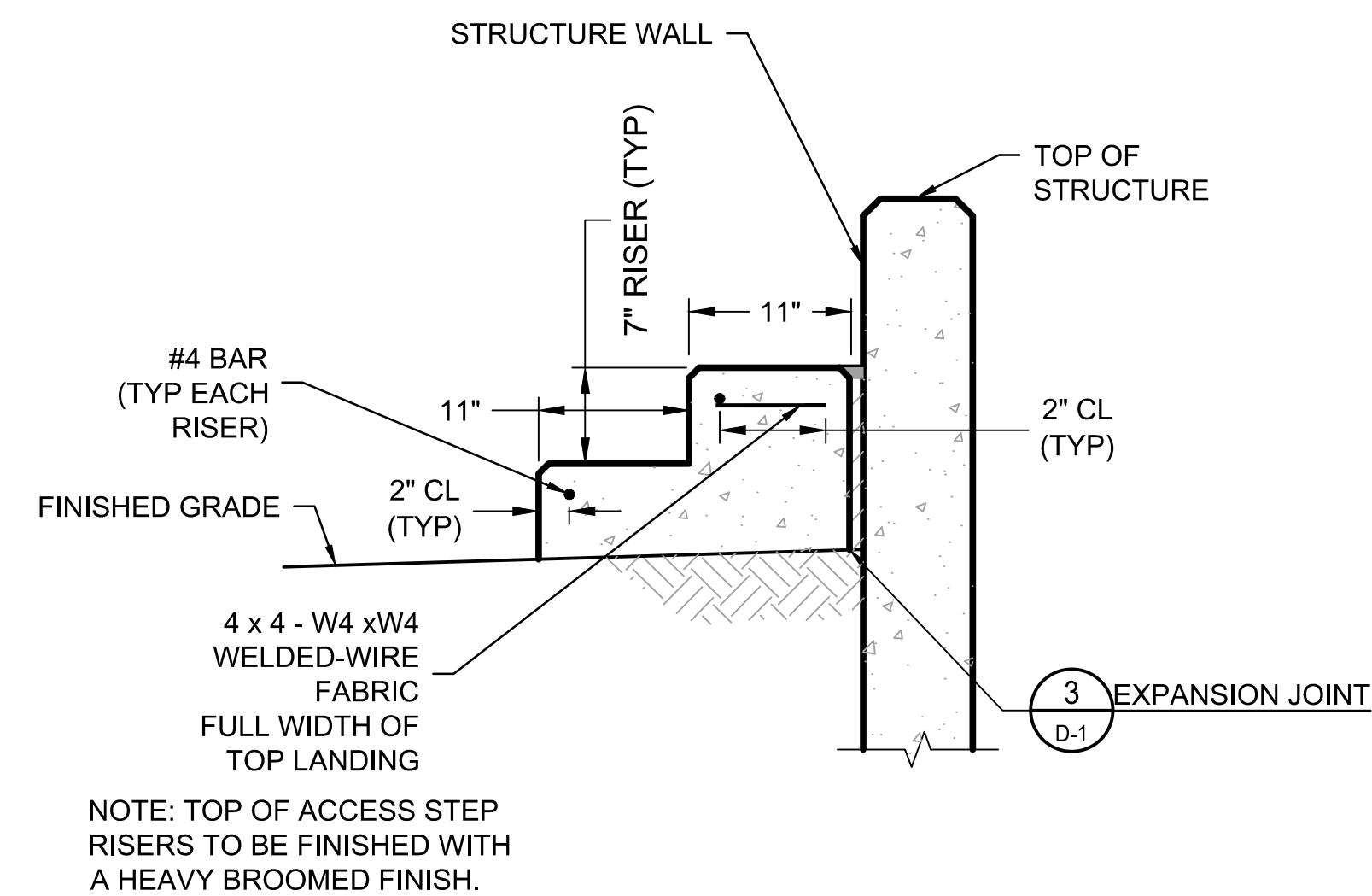
File Name: D4_1643.DWG
Dwn: HARUBH
Chkd: GGB
Dsgn: CTS
MM.DD.YY: 03.20.26

Permit-Seal
70263 CAMERON T. SMITH
03/20/26
Expires 12/31/2028
Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

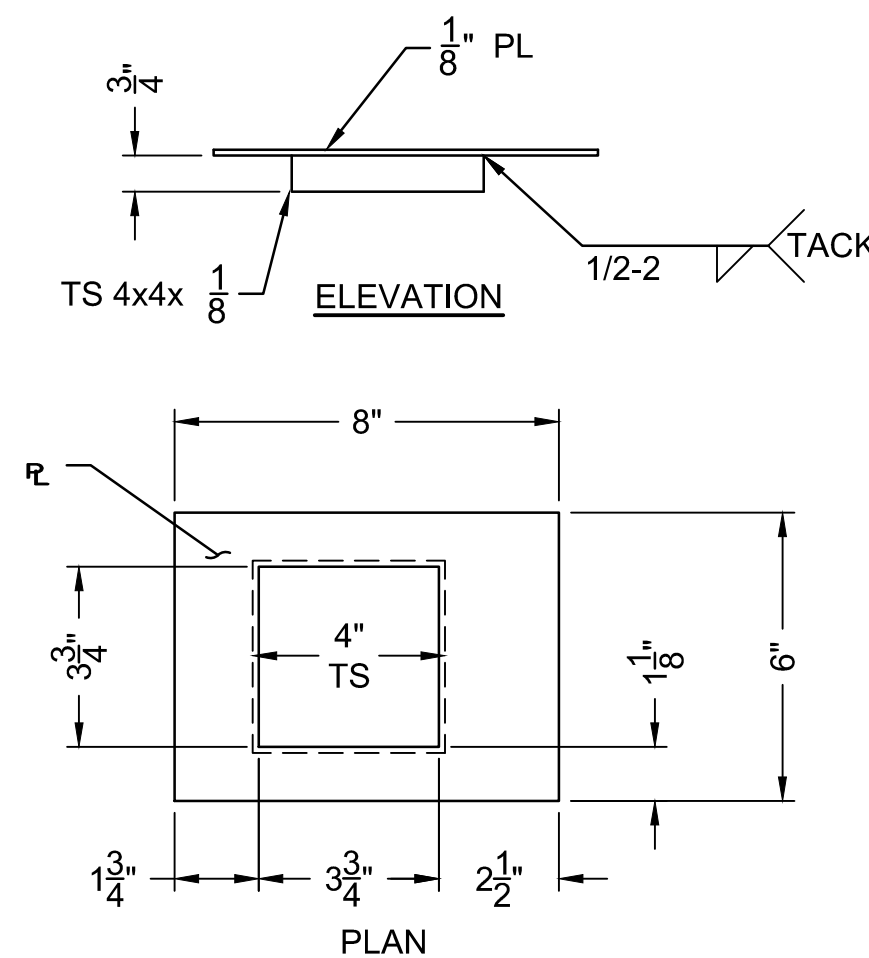
Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
CONTROL GATE DETAILS
Project No. 181301643
Scale AS SHOWN
Drawing No. D-4
Sheet 59 of 61
Revision 0

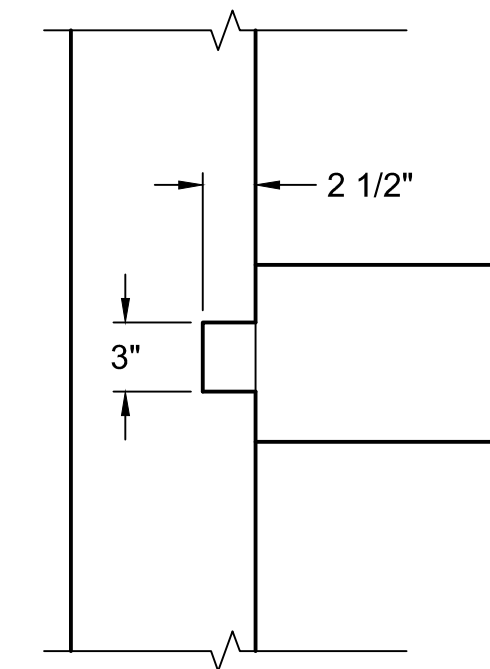
U:\181301643\Drawings\civil\lat-7\44_1643.dwg 2/26/2026 12:04 PM By: Hart, Bryan



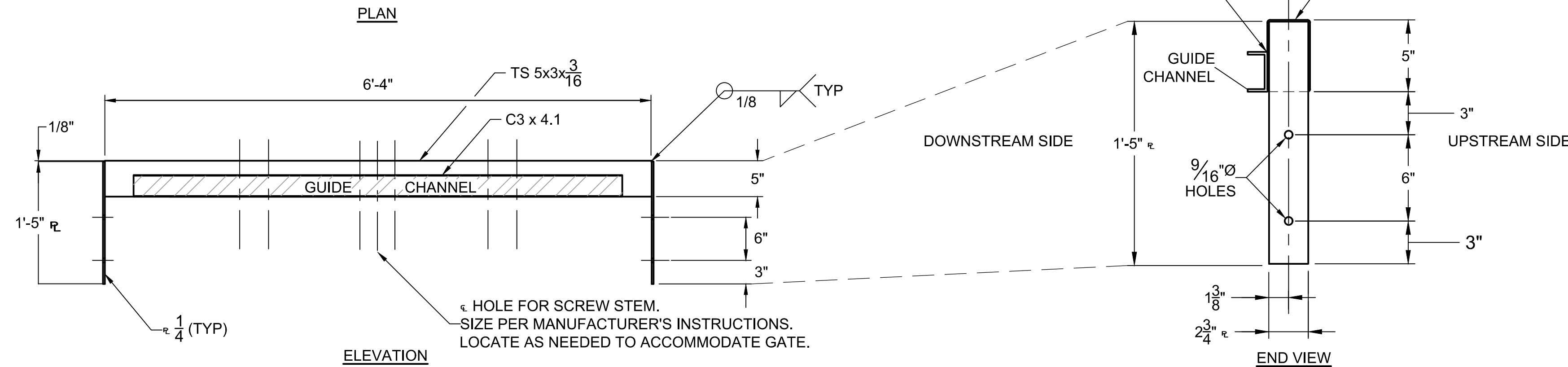
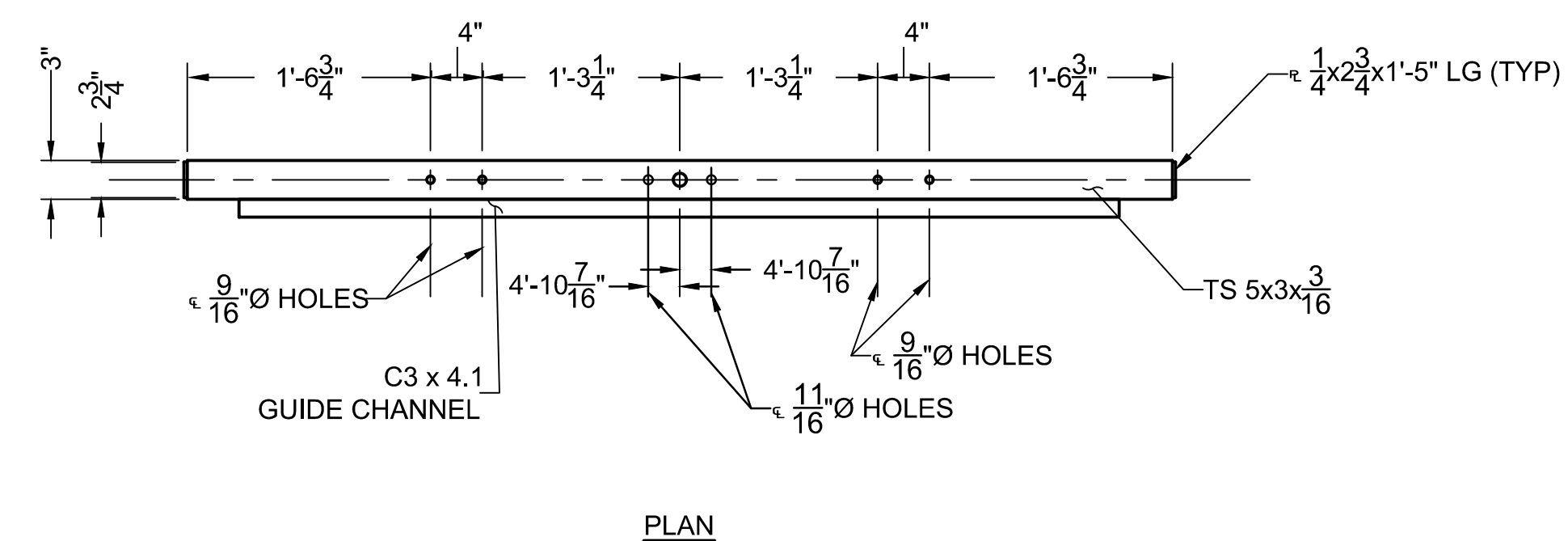
1 ACCESS STEPS
NTS



2 WEIR STICK GUARD
NTS SEE NOTES 3 & 5



4 CHECK BOARD SLOT DETAIL
NTS



3 CREST GATE MANTEL
NTS

Notes

- ALL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE SPECIFIED, TOLERANCE DIMENSIONS SHALL BE ± 1/32".
- AFTER FABRICATION, ALL ASSEMBLIES SHALL BE SANDBLASTED TO NEAR WHITE AND COATED TO A THICKNESS OF 5-7 MILS WITH ZINC METAL SPRAY OR HOT DIP GALVANIZE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW & APPROVAL BY ENGINEER.
- CONTRACTOR SHALL COORDINATE LOCATION OF WEIR STICK GUARD(S) WITH RID. CONTACT RID WATERMASTER AT (623) 386-2046 PRIOR TO INSTALLATION.

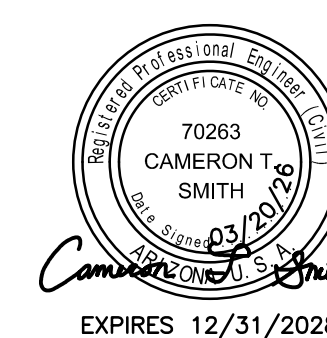


Stantec Consulting Services Inc.
3133 West Frye Road, Suite 300
Chandler, AZ 85226 USA
Tel. 480.687.6100
www.stantec.com

Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: S8_1643.DWG HARUBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY

Permit-Seal



Client/Project
ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW
ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

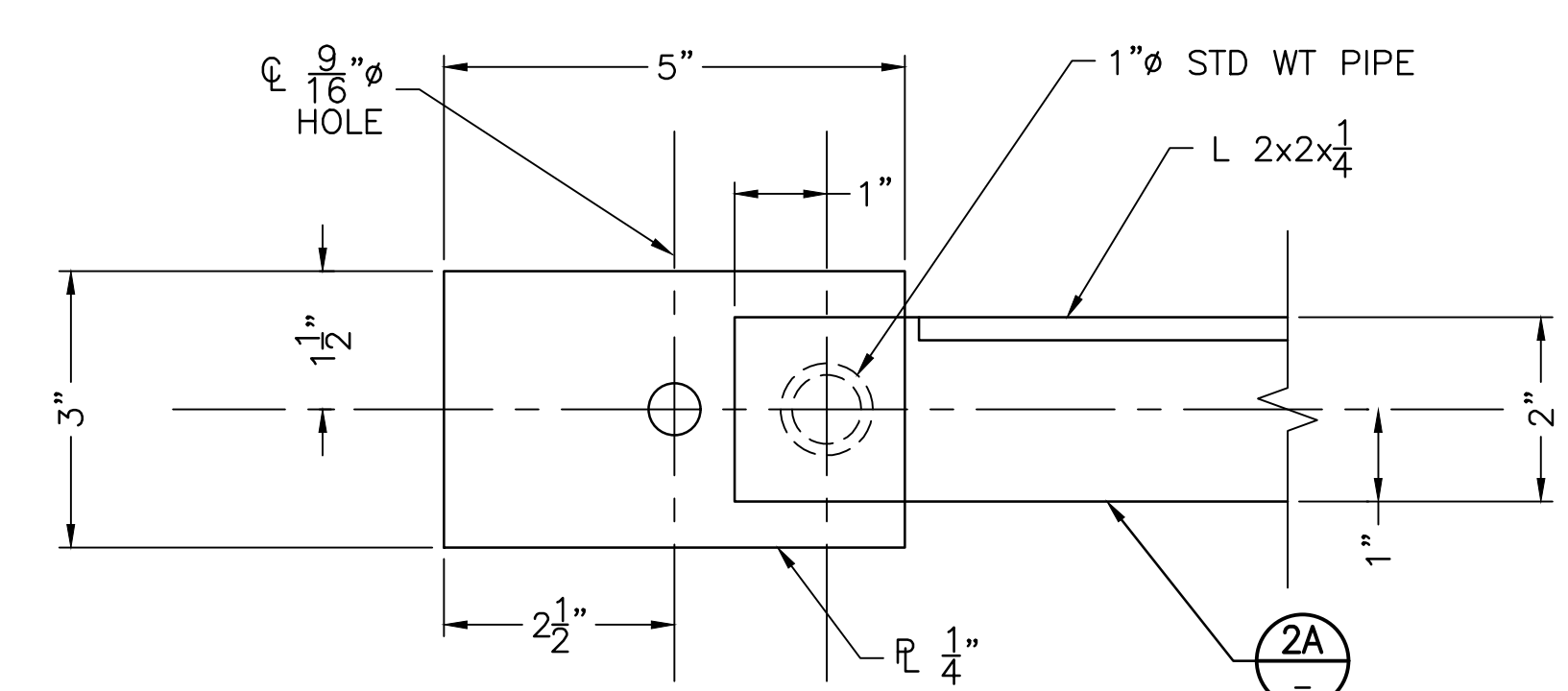
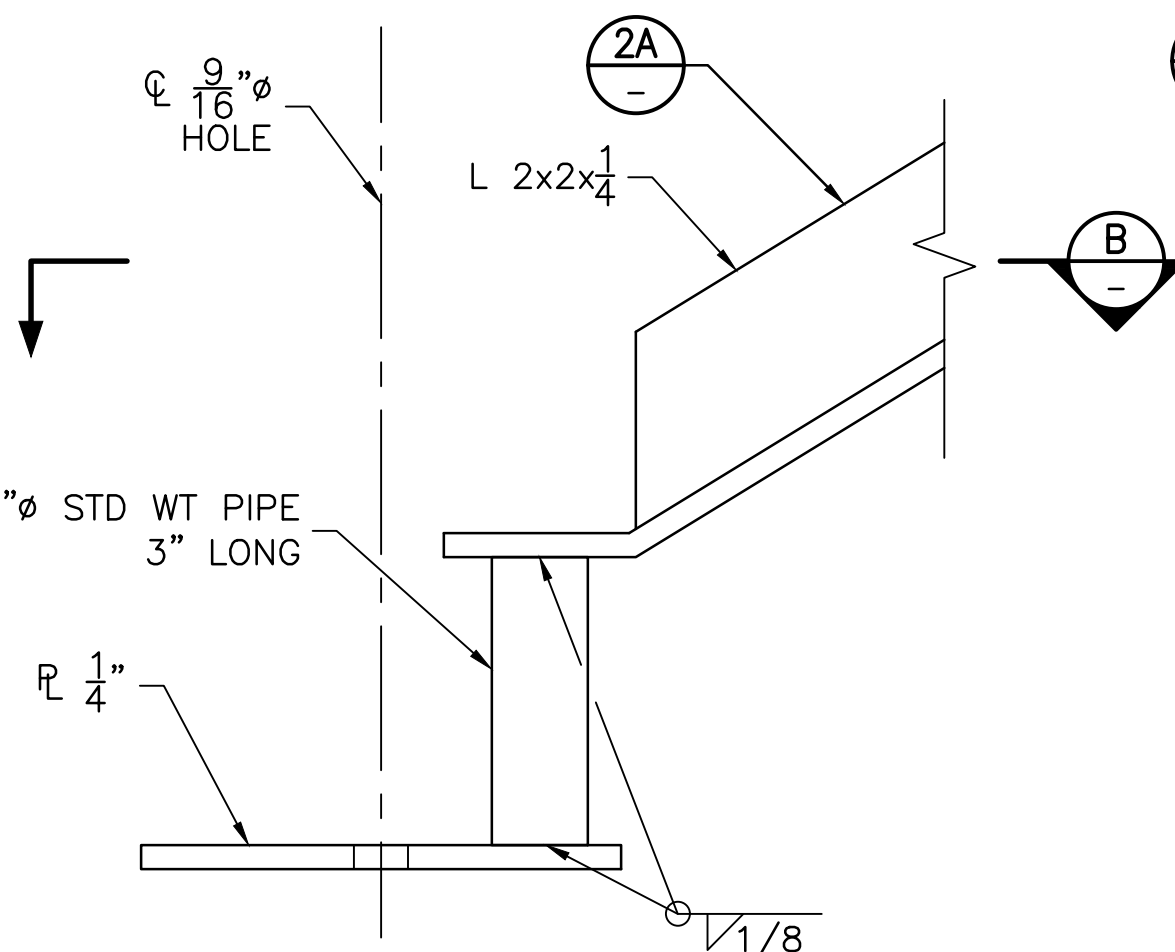
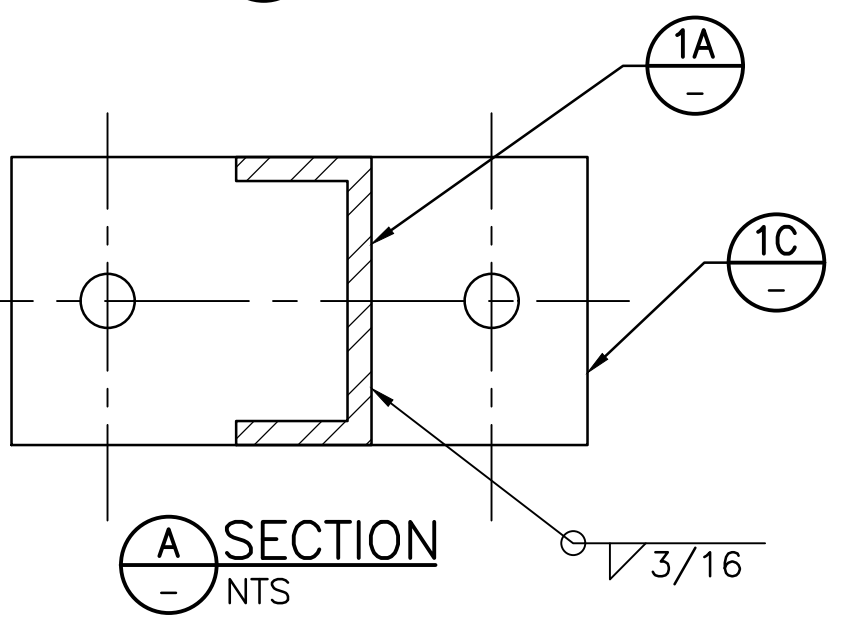
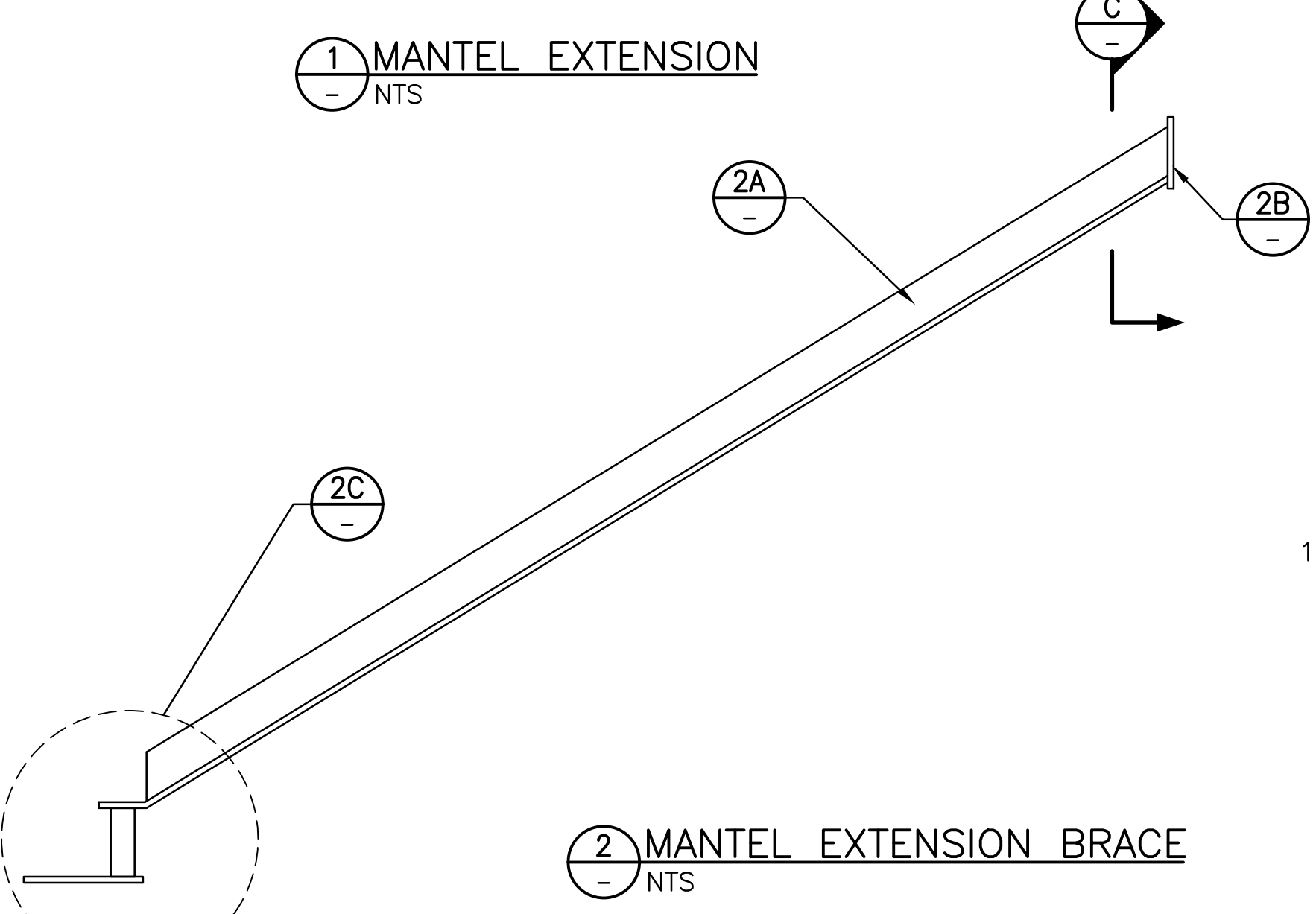
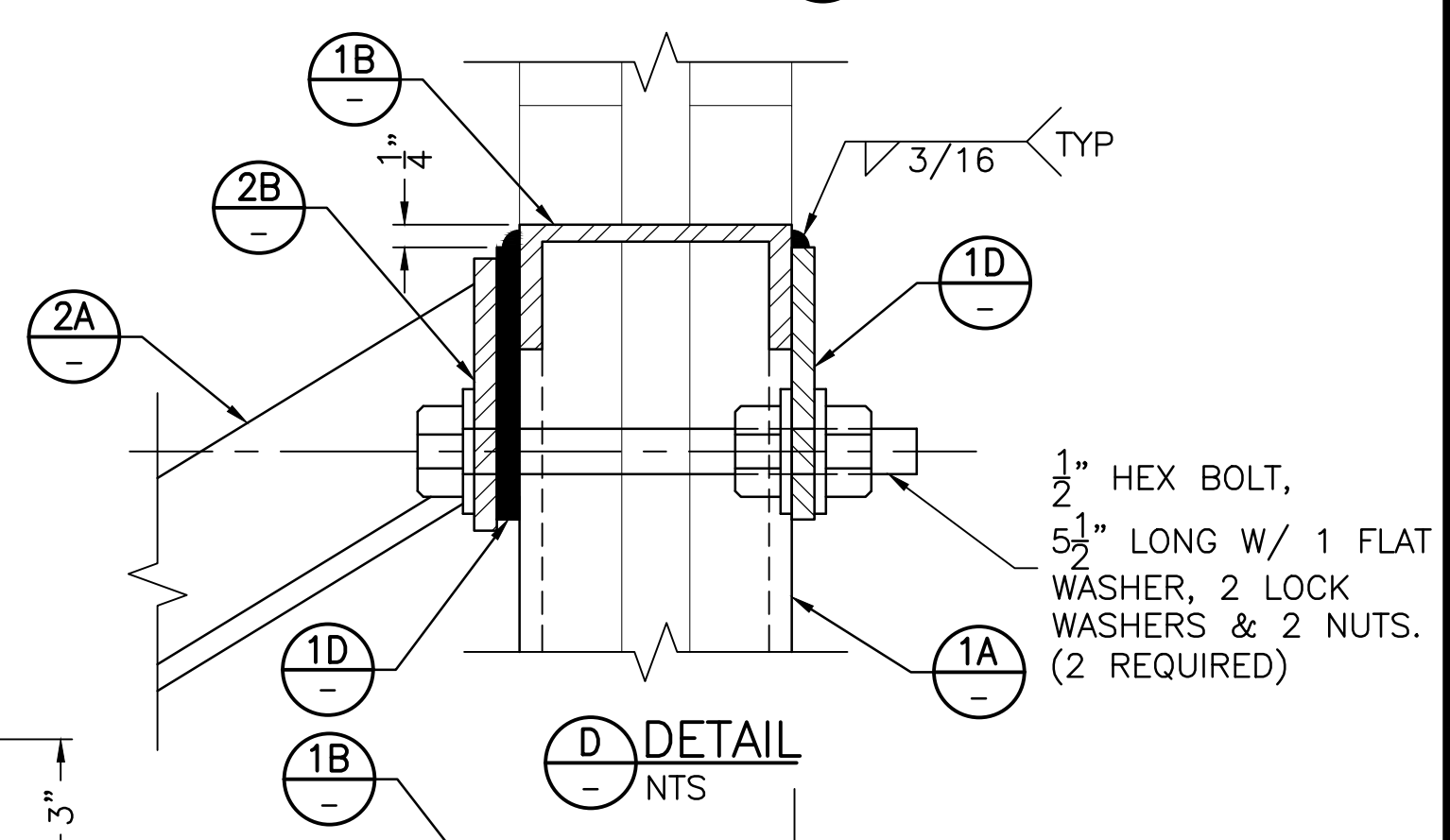
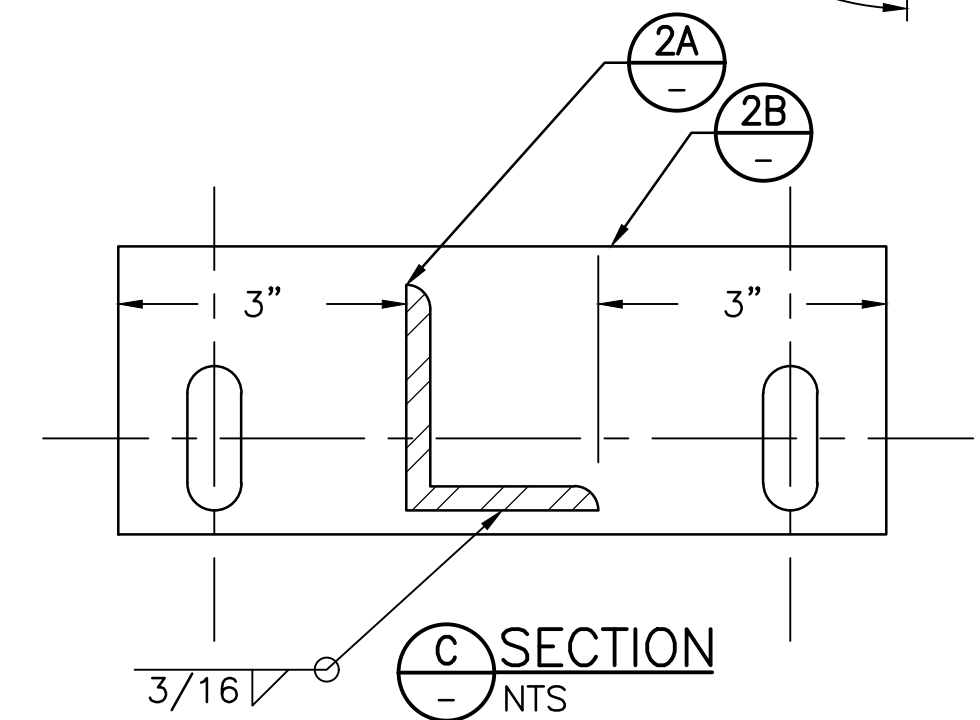
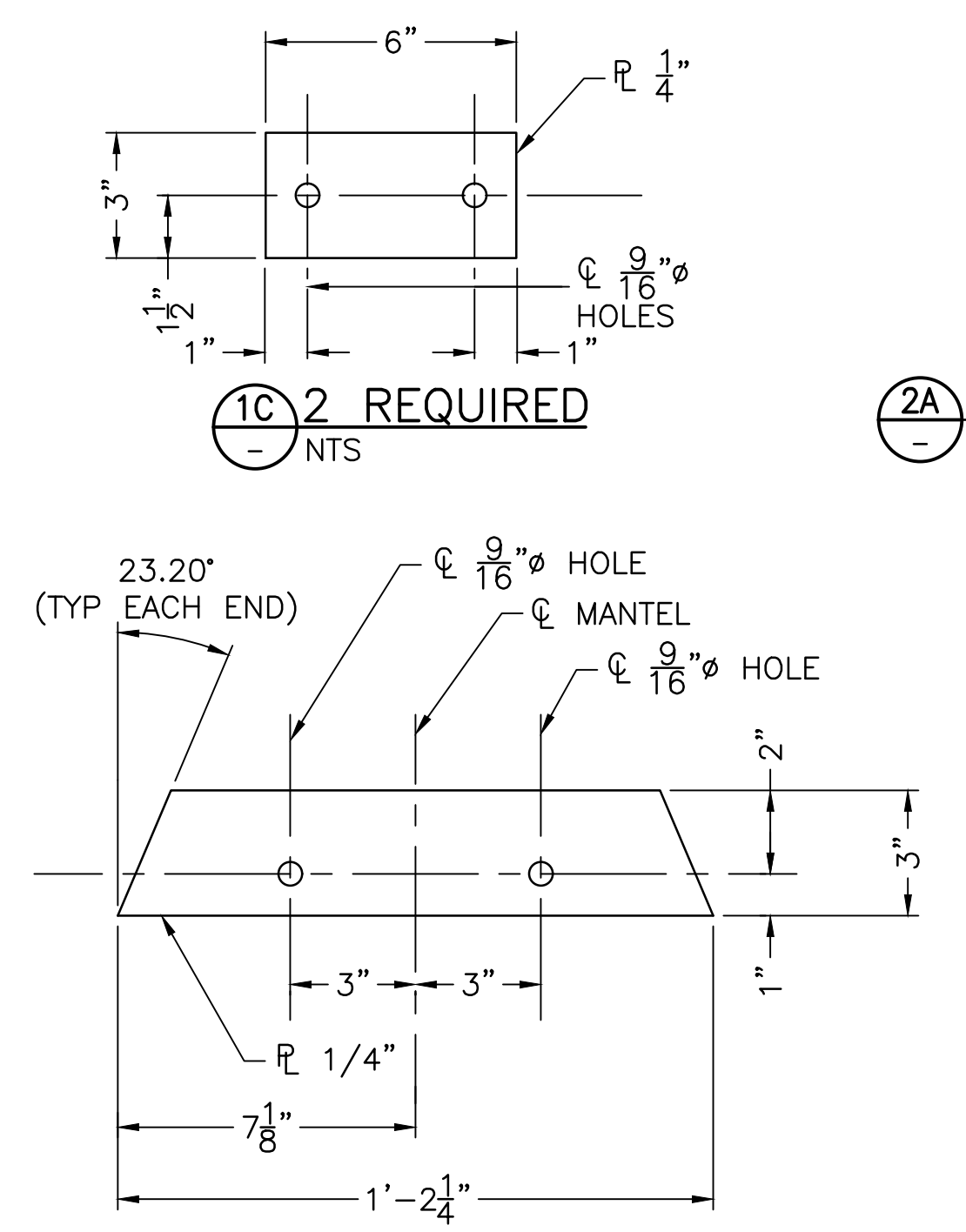
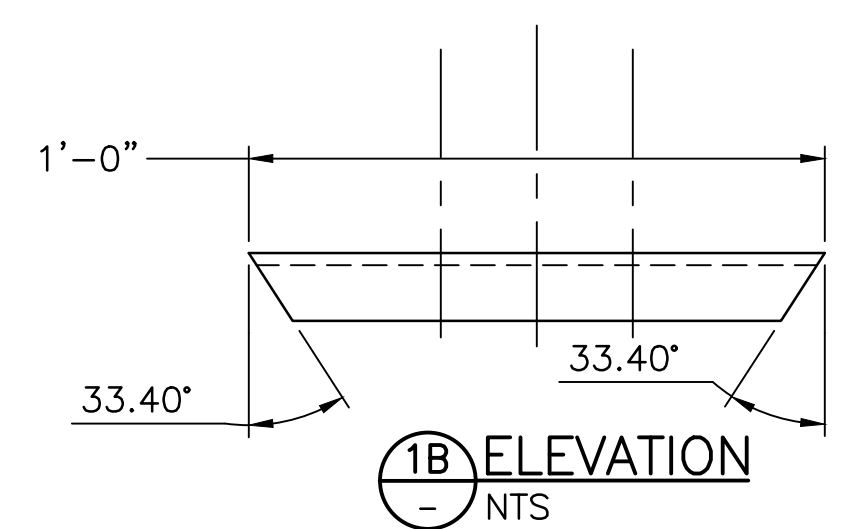
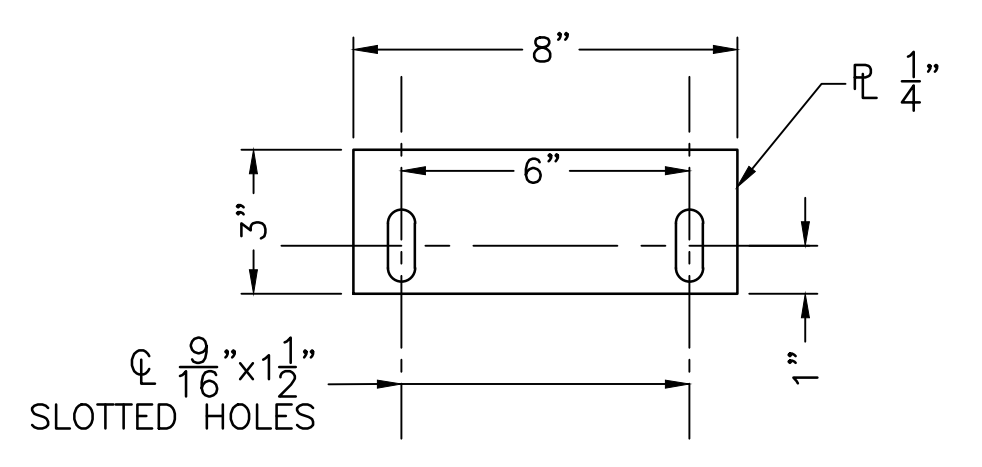
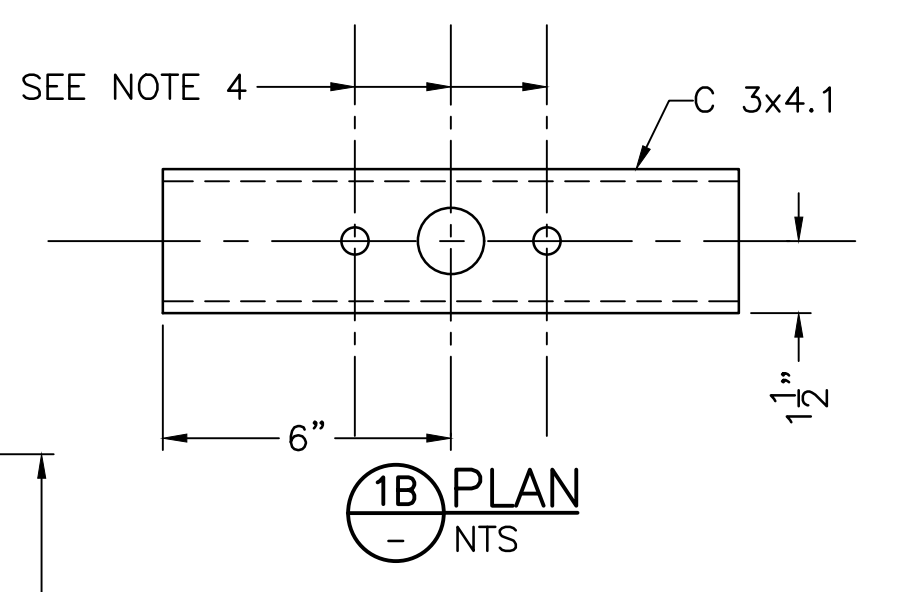
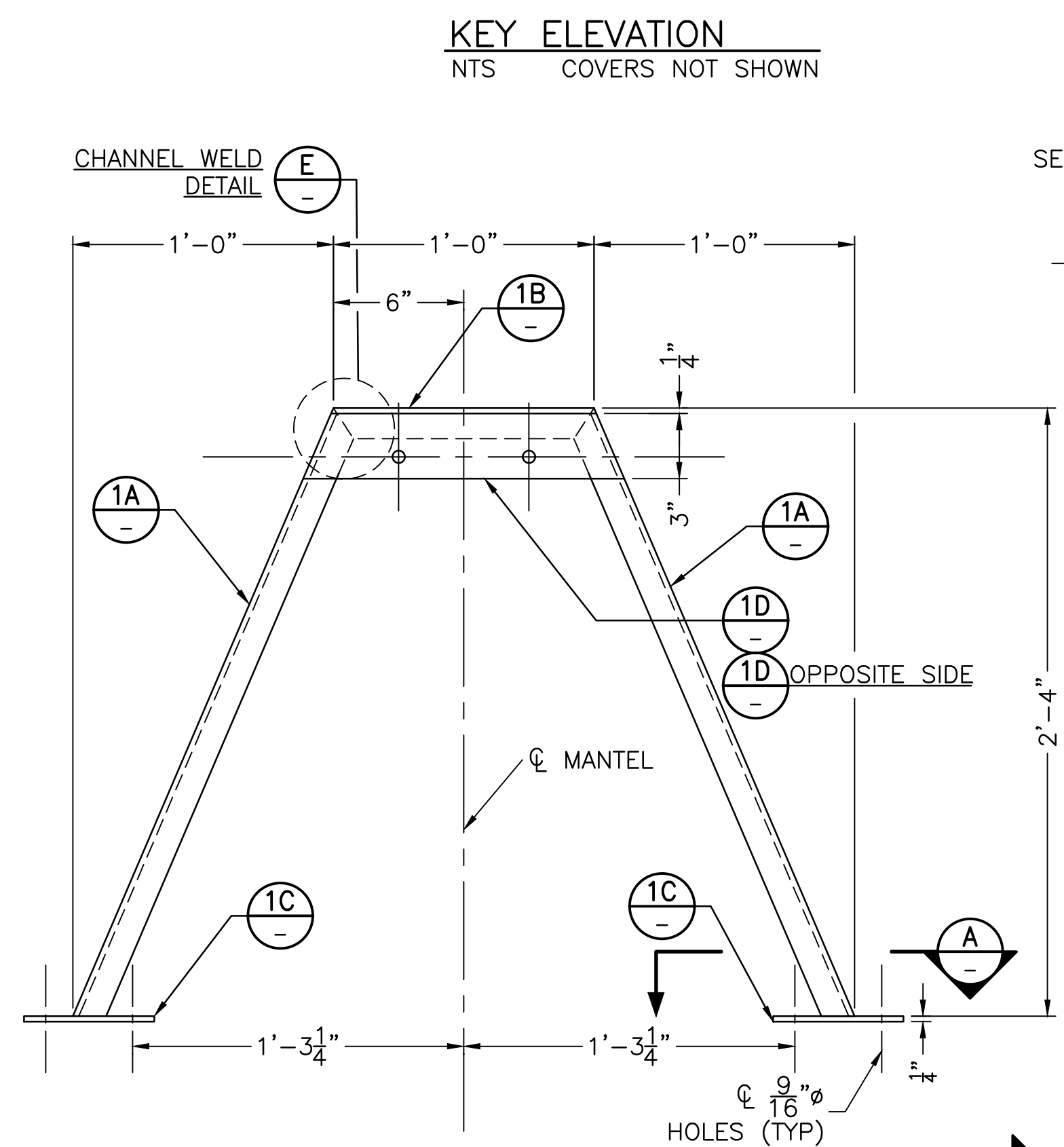
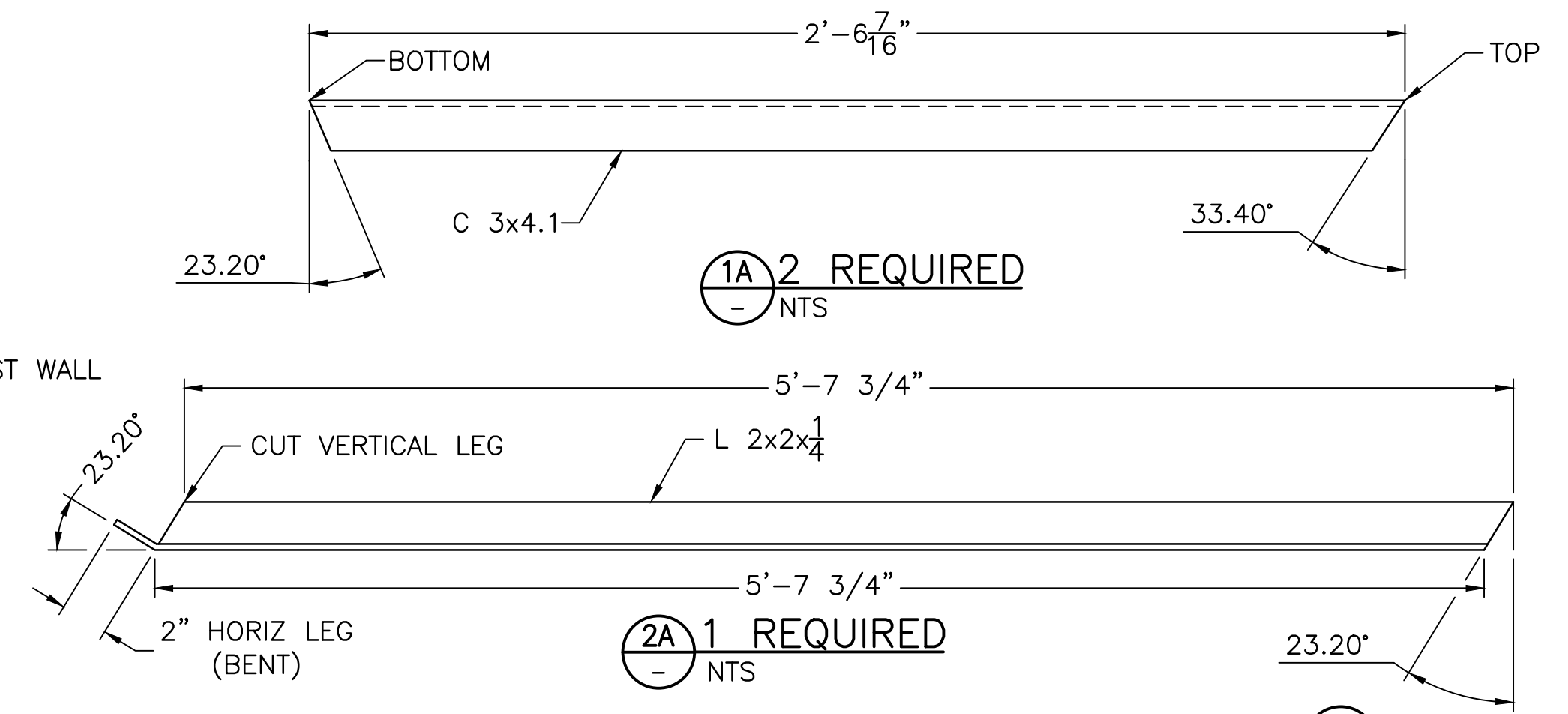
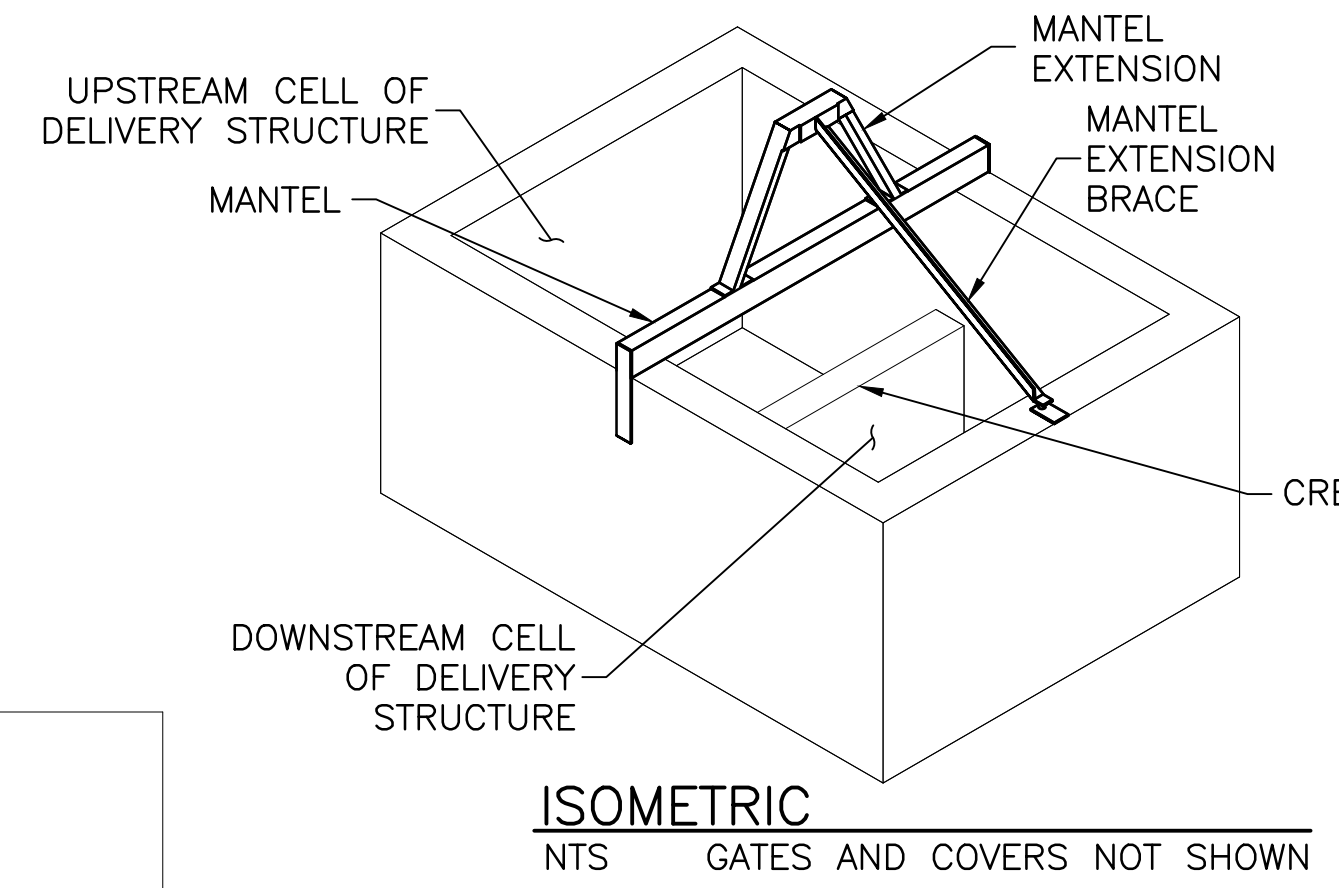
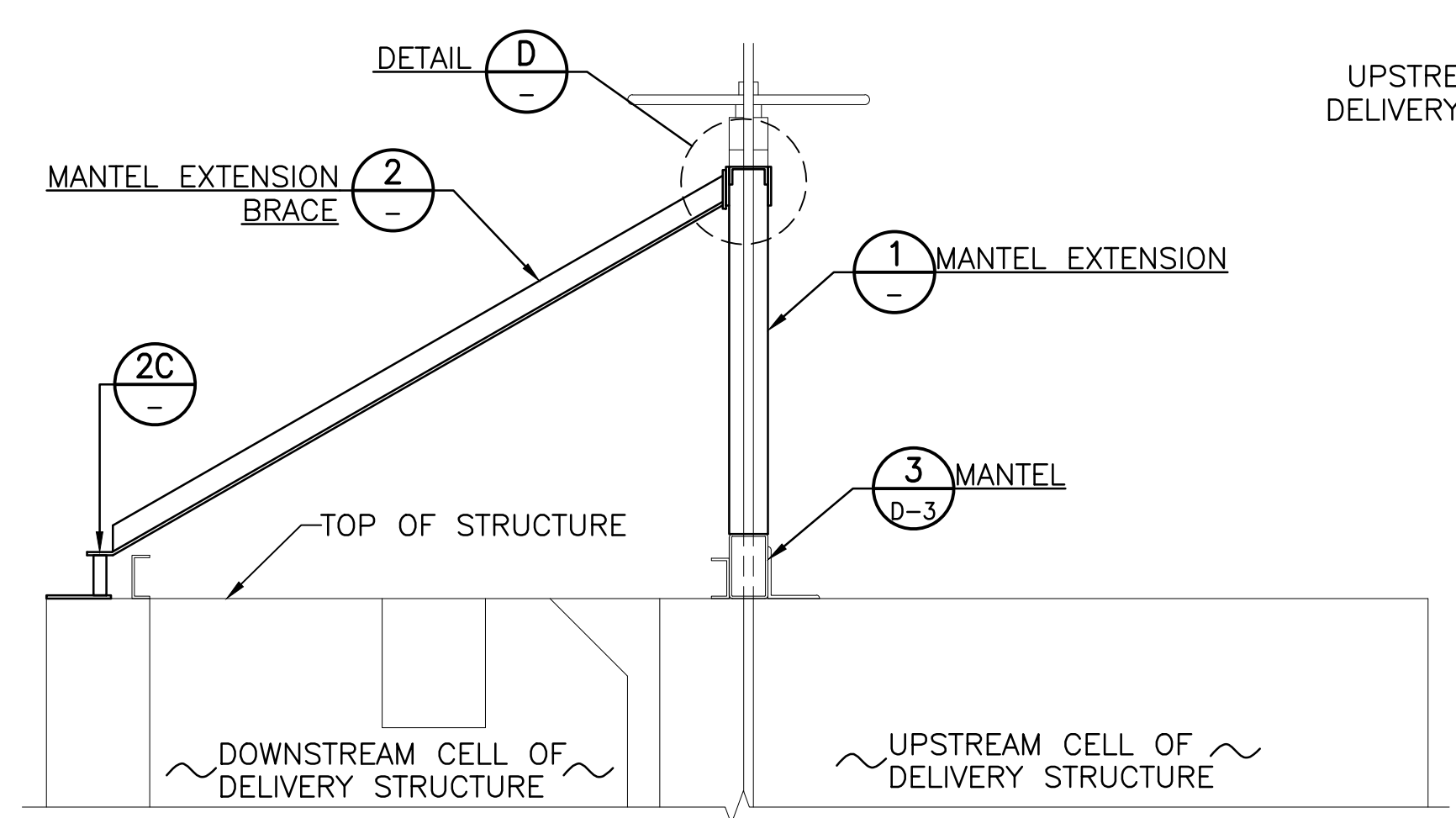
Title
DELIVERY STRUCTURE
ACCESS STEP, MANTEL
AND GUIDE DETAILS

Project No. 181301643 Scale AS SHOWN

Drawing No. D-5 Sheet 60 of 61 Revision 0

Notes

1. DIMENSION TOLERANCE 1/32"±.
2. ALL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED.
3. SANDBLAST TO NEAR WHITE FINISH, ZINC METAL SPRAY OR HOT DIP GALVANIZE 5-7 MILS AFTER FABRICATION.
4. ϕ HOLES FOR GATE LIFTING LOCATE AND DRILL HOLES TO MOUNT GATE LIFTING DEVICE PER MANUFACTURER'S INSTRUCTIONS.

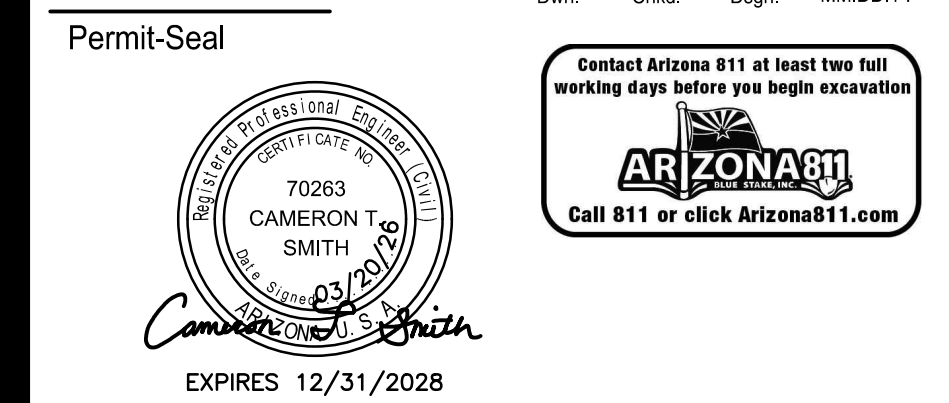


U:\181301643\Drawings\civil\181301643.dwg 2/26/2020 12:05 PM By: Harl, Bryan



Copyright Reserved
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.
The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

File Name: D6_1843.DWG HARUBH GGB CTS 03.20.26
Dwn. Chkd. Dsgn. MM.DD.YY



Client/Project
**ROOSEVELT IRRIGATION DISTRICT
LATERALS 6, 7 & 7WW**

ADOT LOOP 303
PACKAGE 1
Goodyear, Arizona

Title
**DELIVERY STRUCTURE
MANTLE EXTENSION DETAILS**

Project No. 181301643	Scale AS SHOWN
Drawing No. D-6	Sheet 61 of 61
	Revision 0