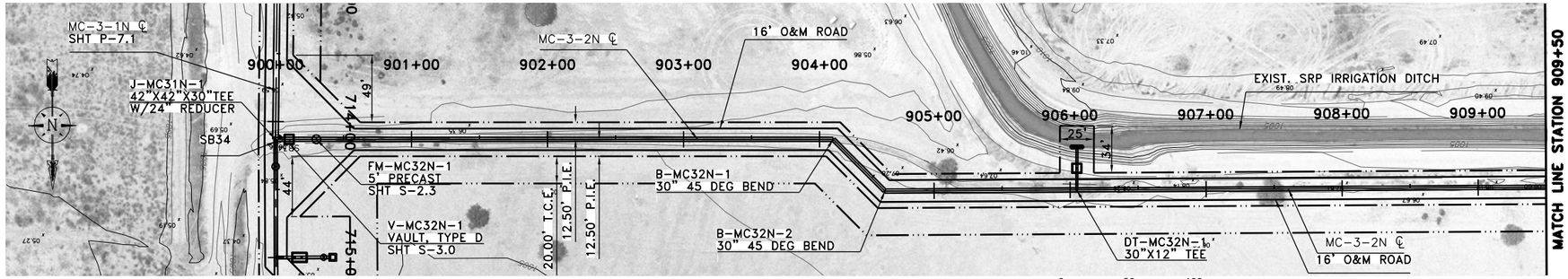

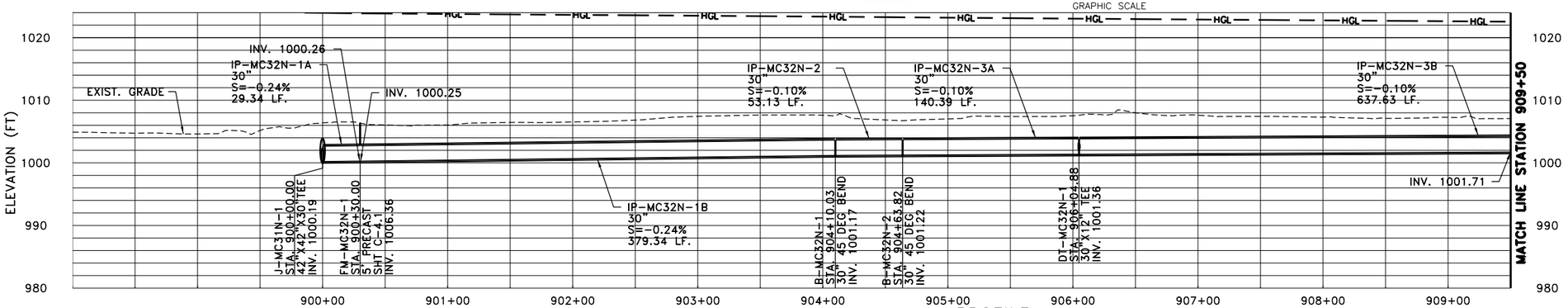

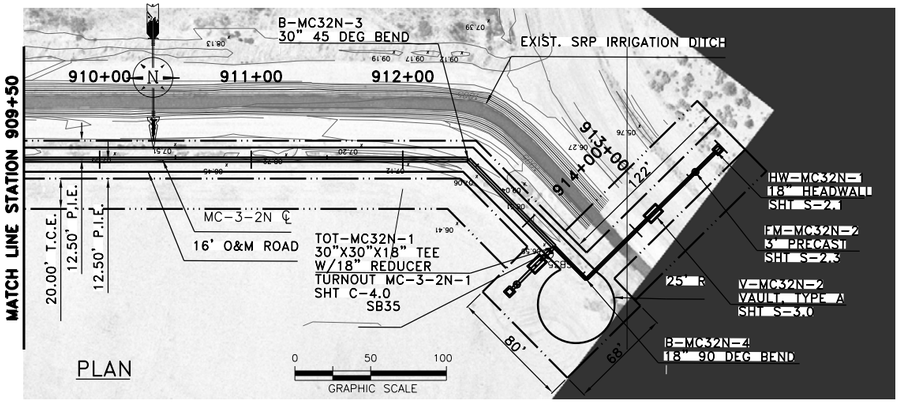

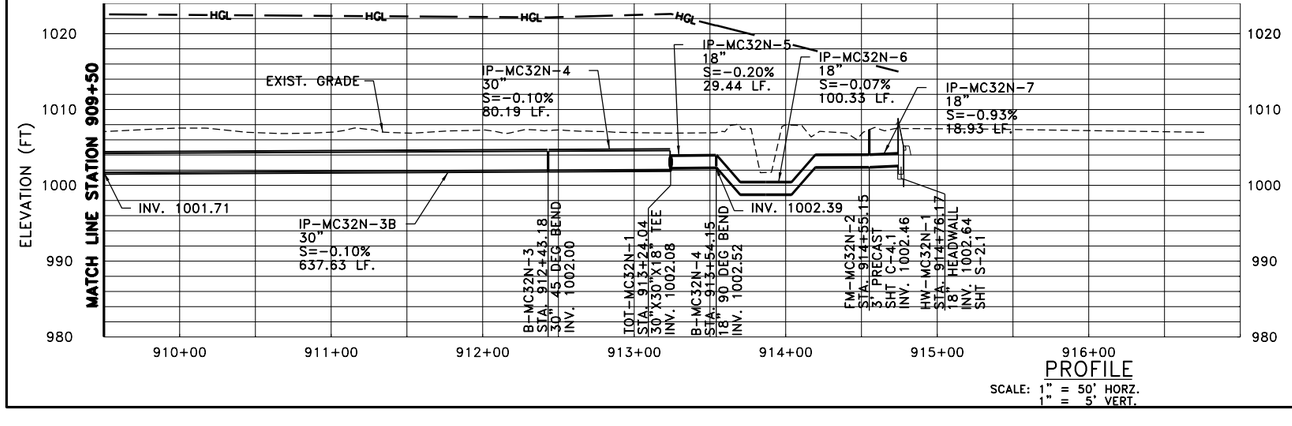

Rev	Date	Description	By

Job No. 647979
Designed MFM
Drawn JD
Checked JZ
Reviewed JZ
Approved JZ
Reg. No. 25118
Plot Date 12-18-14

60% SUBMITTAL
NOT FOR
CONSTRUCTION

PREPARED BY:
PARSONS
222 SOUTH MILL AVENUE
SUITE #220
TEMPE, ARIZONA 85281
(602)852-9195
(602)952-9303 fax

GILA RIVER INDIAN COMMUNITY ARIZONA

PIMA MARICOPA IRRIGATION PROJECT
P.O. BOX C
192-A SOUTH ROUTE A STREET
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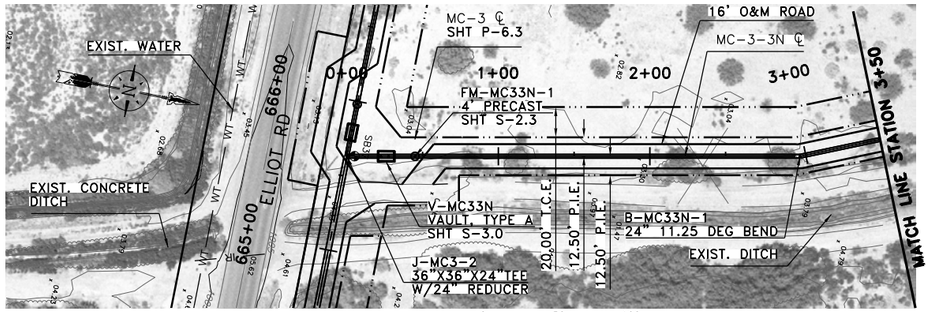
REACHES WS-1E AND WS-1F

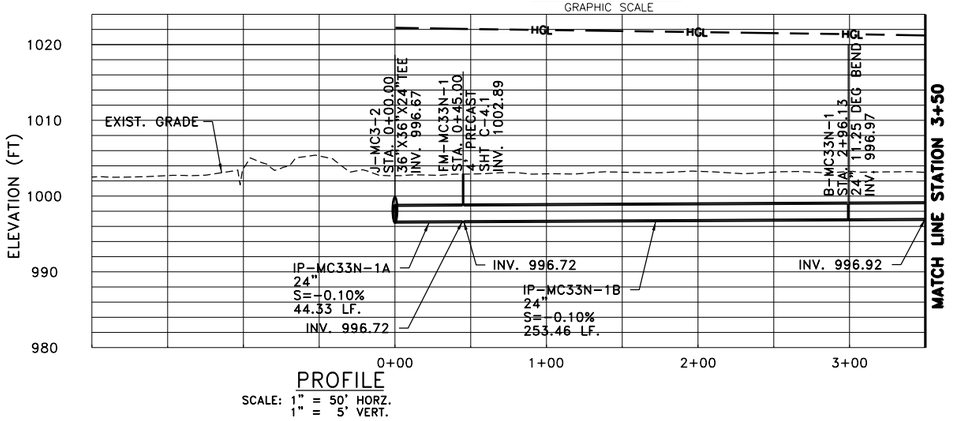
PLAN AND PROFILE
MC-3-2N STA. 900+00 TO STA. 913+22

DRAWING NAME
P-9.1



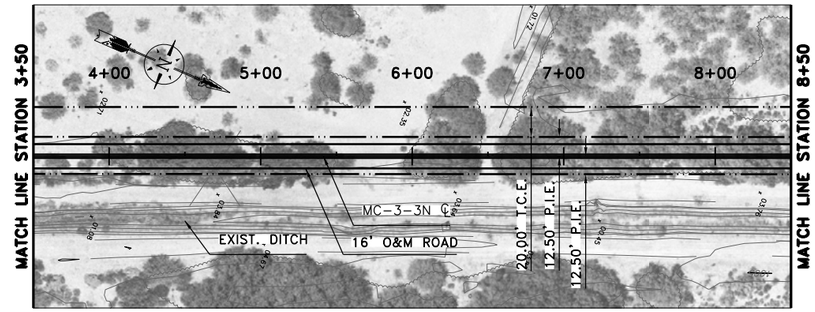
PLAN

GRAPHIC SCALE 0 50 100



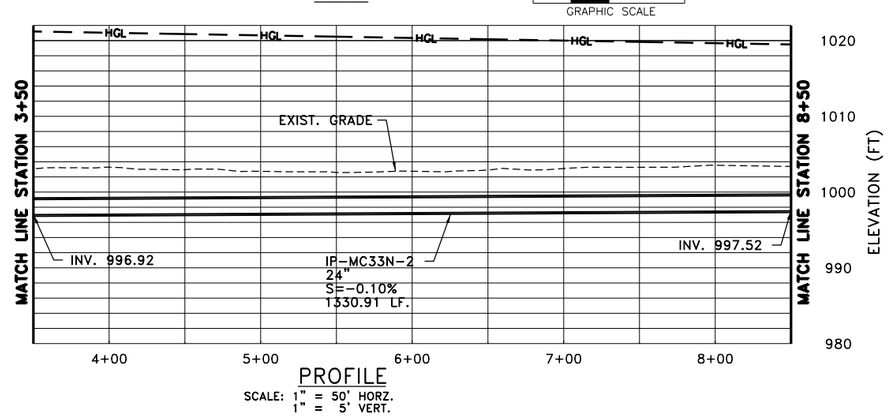
PROFILE

SCALE: 1" = 50' HORZ.
1" = 5' VERTICAL



PLAN

GRAPHIC SCALE 0 50 100



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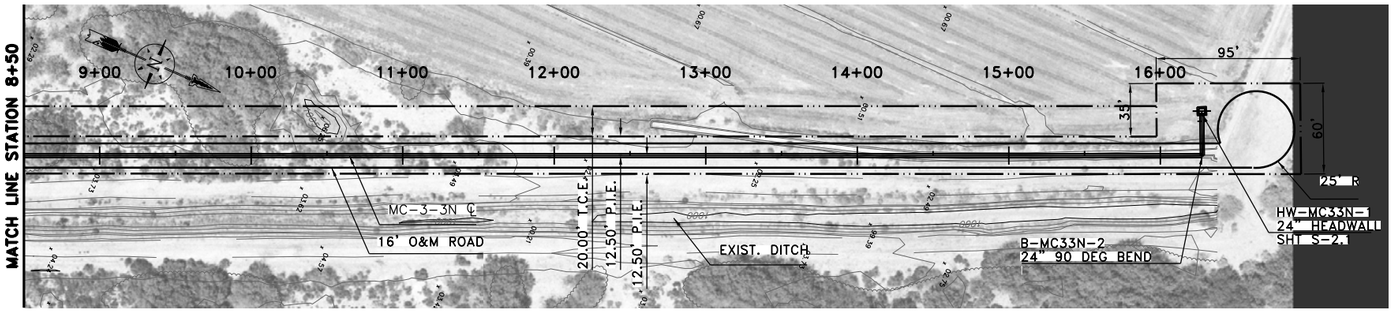
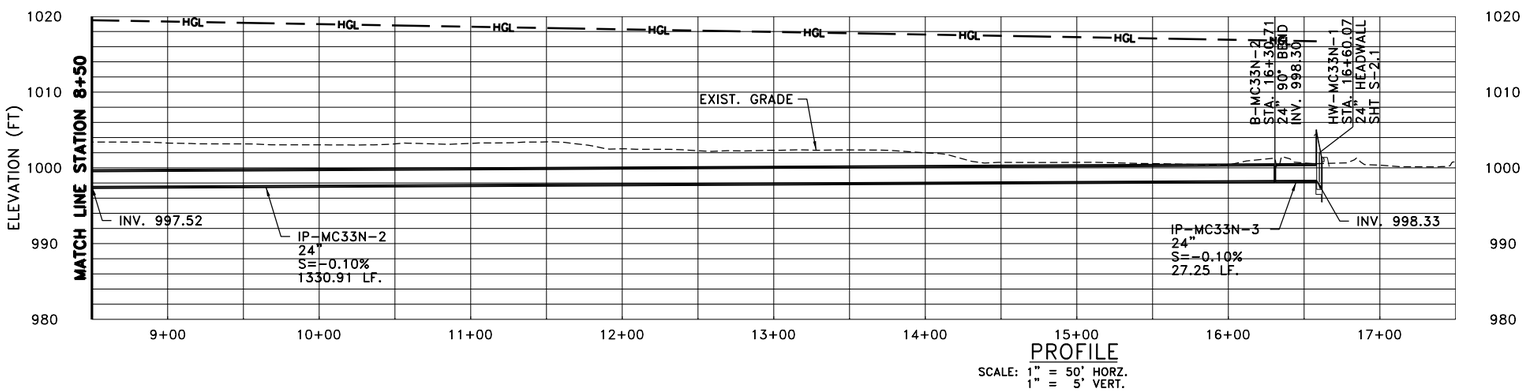


PLAN

GRAPHIC SCALE 0 50 100



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REACHES WS-1E AND WS-1F

PLAN AND PROFILE
MC-3-3N STA. 0+00 TO STA. 16+00

DRAWING NAME
P-10.1

TRENCH NOTES FOR ADOT, MARICOPA COUNTY AND GRIC PAVED ROADS:

1. PROVIDE A FULL DEPTH SAWCUT OF THE PAVEMENT FOR THE TRENCH. PROVIDE 6" OF AGGREGATE PIPE BEDDING UNDER THE PIPE. SLURRY BEDDING FROM THE BOTTOM OF THE PIPE TO THE SPRING LINE IS REQUIRED FOR ALL PIPE SIZES. SLURRY BEDDING IS REQUIRED TO SET FOR A MINIMUM OF 24-HOURS BEFORE PLACEMENT OF THE PIPE BACKFILL ABOVE. SLURRY BACKFILL IS REQUIRED FROM THE SPRINGLINE UP TO THE BOTTOM OF THE PAVEMENT INSIDE THE ROADWAY PRISM IN A TRENCHED CONDITION. OUTSIDE OF THE ROADWAY PRISM SLURRY OR AGRREGATE PIPE BACKFILL AND TRENCH BACKFILL MAY BE PLACED FROM THE SPRINGLINE AND ABOVE. SLURRY BACKFILL IS REQUIRED TO SET A MINIMUM OF 24-HOURS BEFORE PLACEMENT OF AC ABOVE.

2. STEEL PLATES MEETING H20 TRAFFIC LOADING REQUIREMENTS SHALL BE PLACED OVER THE TRENCH AND SLURRY ALLOWED SETTING A MINIMUM OF 24-HOURS WITHOUT A DISTURBANCE. FOUR FEET WIDE COLD MIX AC WEDGES SHALL BE USED TO HOLD STEEL PLATES IN PLACE. IF PROPER PLATES ARE NOT AVAILABLE A PAVED DETOUR SHALL BE CONSTRUCTED. ONCE THE SLURRY IS SET, AC MEETING THE REQUIREMENTS OF ADOT STANDARD SPECIFICATIONS SECTION 409 SHALL BE PLACED IN THE TRENCH IN TWO 3" LIFTS OF AC (6" TOTAL) AND PROPERLY COMPACTED TO THE SURFACE OF THE EXISTING PAVEMENT.

3. ONCE THE AC PATCH IS COMPLETED, ALL TRAVELED LANES AND SHOULDERS WHERE THE PATCH WAS PLACED SHALL BE MILLED IN COMPLIANCE WITH ADOT STANDARD SPECIFICATION 202-3.03(C) TO A DEPTH OF TWO INCHES FOR A LENGTH OF 100', (50' ON EACH SIDE OF THE PATCH). THE MILLED TRENCH SHALL BE PROPERLY CLEANED AND A TACK COAT PLACED ON ALL SURFACES, INCLUDING THE EDGES, WHICH MEET THE REQUIREMENTS OF ADOT STANDARD SPECIFICATION 404-3.12. THE ENTITRE MILED SURFACE IS THEN OVERLAID WITH TWO INCHES OF AC MEETING THE REQUIREMENTS OF ADOT STANDARD SPECIFICATIONS SECTION 409.

GENERAL NOTES FOR DRAINAGE PIPE:

4. TRENCH SLOPES AND/OR SHORING SHALL COMPLY WITH ALL APPLICABLE OSHA REQUIREMENTS.

5. BEDDING OF GRANULAR MATERIAL FOR ALL PIPE SHALL BE GRADED TO PROVIDE UNIFORM SUPPORT FOR THE ENTIRE LENGTH OF THE PIPE.

6. W = O.D. +36".

7. COVER SHOWN IS MINIMUM ALLOWABLE. SEE PLANS FOR ACTUAL PIPE INVERT ELEVATIONS AND EARTH COVER.

8. WATER SETTLING AND BACKFILL JETTING IS NOT ALLOWED. MECHANICAL COMPACTION ONLY.

9. ALL TRENCHES MUST BE OBSERVED BY THE ENGINEER PRIOR TO PLACEMENT OF THE GRANULAR BEDDING MATERIAL, TRENCH BACKFILL MATERIAL OR SLURRY BACKFILL.

10. 1-1/2 SACK CEMENT SLURRY PER SPECIFICATIONS SECTION 02221-2.01.

11. GRANULAR BEDDING SHALL BE COARSE AGGREGATE PER TABLE PER SPECIFICATIONS SECTION 02221-2.01.

12. SUBGRADES SHALL BE EXCAVATED OR OVER EXCAVATED, IF NECESSARY, TO PROVIDE A UNIFORM FOUNDATION FREE OF ANY DELETERIOUS MATERIAL.

13. ADDITIONAL EXCAVATION MAY BE REQUIRED PER SPECIFICATIONS SECTION 02221.

14. 12" MAXIMUM LIFT FOR PIPE UNLESS SMALLER LIFTS ARE REQUIRED TO PREVENT FLOTATION.

15. 1-1/2 SACK CEMENT SLURRY PER SPEC. SECTION 02221-2.01E MAY BE USED IN LIEU OF EARTHEN PIPE AND TRENCH BACKFILL.

GENERAL NOTES FOR FLEXIBLE IRRIGATION PIPE:

16. TRENCH SLOPES AND/OR SHORING SHALL COMPLY WITH ALL APPLICABLE OSHA REQUIREMENTS.

17. BEDDING OF GRANULAR MATERIAL FOR ALL PIPE SHALL BE GRADED TO PROVIDE UNIFORM SUPPORT OF ENTIRE LENGTH OF THE PIPE.

18. COVER SHOWN IS MINIMUM ALLOWABLE. SEE PLANS FOR THE ACTUAL PIPE INVERT ELEVATIONS AND EARTH COVER

19. WATER SETTLING AND BACKFILL JETTING IS NOT ALLOWED. MECHANICAL COMPACTION ONLY.

20. ALL TRENCHES MUST BE OBSERVED BY THE ENGINEER PRIOR TO PLACEMENT OF THE GRANULAR BEDDING MATERIAL, TRENCH BACKFILL MATERIAL OR SLURRY BACKFILL.

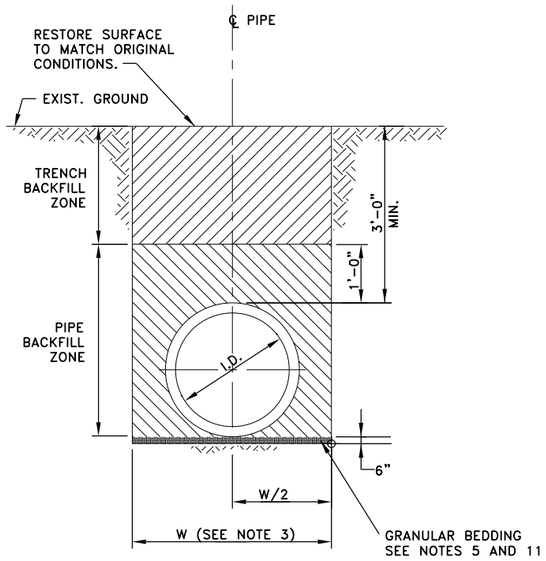
21. 1-1½ SACK CEMENT SLURRY REQUIRED IN PIPE ZONE PER SPEC. SEC. 2221-2.01C.

22. SUBGRADES SHOULD BE EXCAVATED OR OVER EXCAVATED, IF NECESSARY, SO A UNIFORM FOUNDATION FREE OF ANY DELETERIOUS MATERIAL MAY BE PROVIDED.

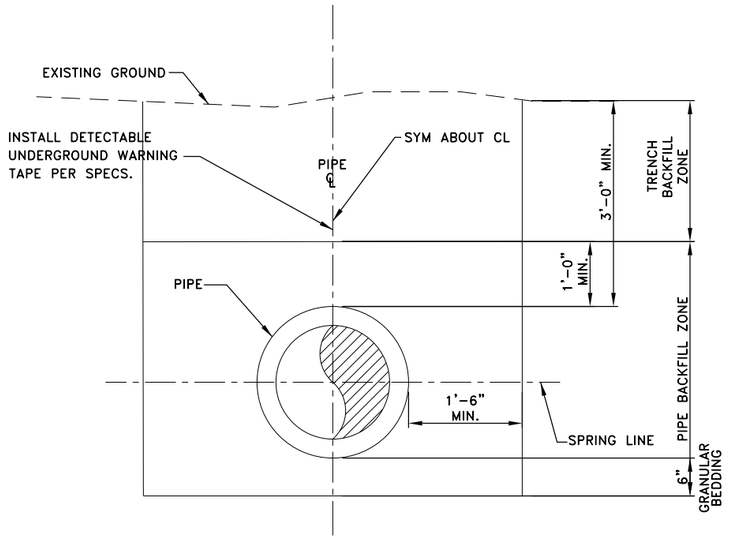
23. ADDITIONAL EXCAVATION MAY BE REQUIRED PER SPECIFICATIONS SECTION 02221 OR 02201.

24. PLUG ENDS OF PIPE WITH REMOVABLE PLUGS AS APPROVED BY ENGINEER.

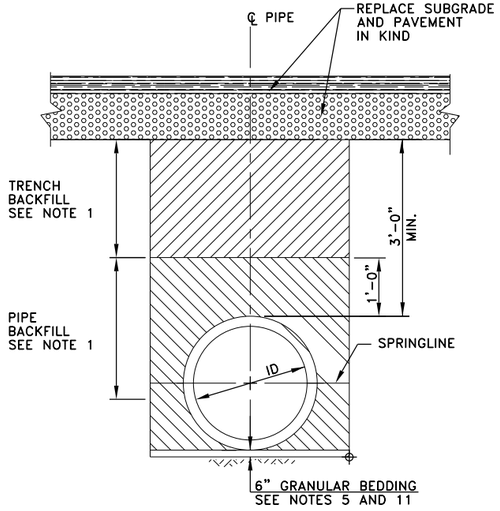
25. SEE SPECS FOR SUITABLE SELECT NATIVE BACKFILL



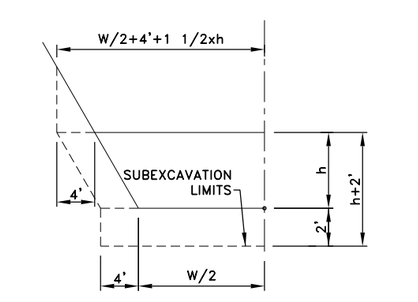
1 — PIPE TRENCH DETAIL FOR ALL DRAINAGE PIPE
NOT TO SCALE



3 — TYPICAL TRENCH SECTION
NOT TO SCALE



2 — TRENCH DETAIL FOR ALL PIPE UNDER ALL PAVED ROADS
NOT TO SCALE



4 — UNSUITABLE MATERIAL REMOVAL DETAIL
NOT TO SCALE

UNSUITABLE MATERIAL REMOVAL NOTES:

1. DETERMINE h AFTER EXCAVATING TO PROFILE GRADE.
2. RECORD h (HEIGHT OF UNSUITABLE MATERIAL) TO THE NEAREST 0.1 ft. @ 50 ft. INTERVALS AND PROVIDE TO THE ENGINEER.
3. REPLACE THE UNSUITABLE MATERIAL WITH SUITABLE MATERIAL FROM THE EXCAVATED CANAL PRISM & COMPACT.
4. COMPACT ANY DISTURBED AREAS REMOVED UNDER THE CANAL BY UNSUITABLE MATERIAL EXCAVATION.

By	Description	Date	Rev

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Drawn JD
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Plot Date 12-18-14

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PREPARED BY:
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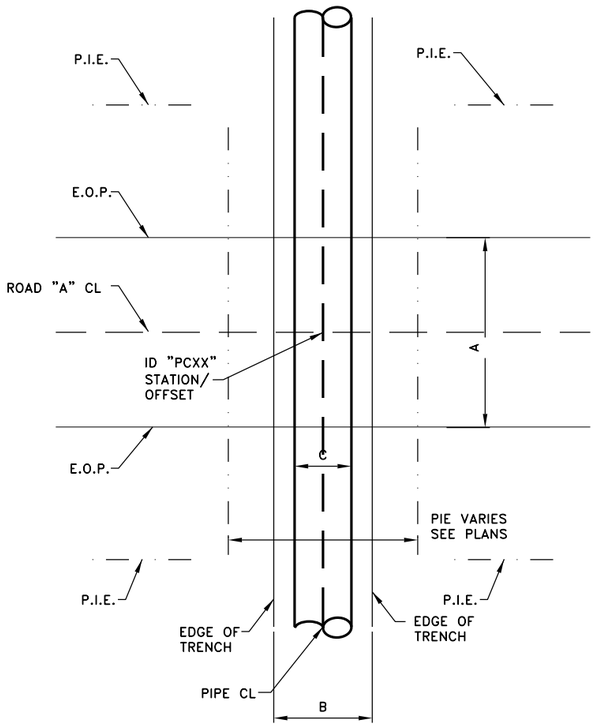
REACHES WS-1E AND WS-1F

TYPICAL SECTIONS

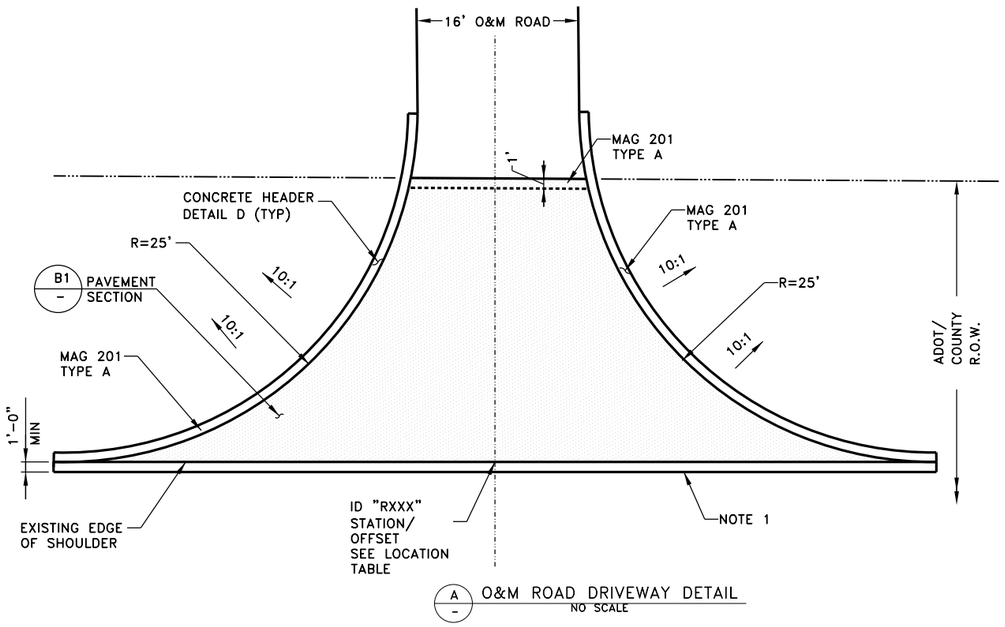
DRAWING NAME
C-1.0



E – PAVEMENT REMOVAL/REPLACEMENT DETAIL
NO SCALE

ID	Align.	Northing	Easting	Approx. Sta./Location	Offset	Lt/Rt	Road Name	Dim "A" (Ft)	Dim "B" (Ft)	Dim "C" (IN)	Removal (SY)	Aggregate Base (CY)	Asphalt Concrete (CY)	Notes
PC01	WS-1E	849115.10	620046.16	1054+54.83	0	RT	Estrella	28	32	54	100	28	8	SKEWED AT 50 DEGREES
PC02	WS-1E	854427.84	615350.77	1126+35.72	0	RT	Elliot	25	10.5	54	29	8	2	
PC03	WS-1E	859742.23	607310.66	1232+11	0	RT	Dobbins	30	9.5	42	32	9	3	
PC04	MC-2	849171.10	615945.82	195+55	0	RT	Estrella	24	9.5	42	25	7	2	
PC05	MC-2	849180.26	612376.61	232+58.97	0	RT	Estrella	26	9.5	42	27	8	2	
PC06	MC-2-1N	849172.40	609879.08	513+40	0	RT	Estrella	24	9	36	24	7	2	
PC07	MC-2-1N	850206.93	609829.79	524+27	0	RT	Unknown	16	8.5	30	15	4	1	PRIVATE DRIVEWAY
PC08	MC-3-1N	854454.27	611141.66	700+80	0	RT	Elliot	24	9.5	42	25	7	2	
PC09	MC-3	854456.48	609938.01	655+04	0	RT	Elliot	24	10	48	27	7	2	
PC10	MC-3	854453.96	608548.56	670+00	0	RT	Elliot	24	8	24	21	6	2	
PC11	MC-2	849163.33	617520.90	179+31.00	45	RT	Estrella	24	7.5	18	20	6	2	
PC12	MC-2-1S	849177.08	611154.27				Estrella	24	7.5	18	20	6	2	
PC13	MC-3	854201.21	609856.66				Barehand	26	7.5	18	22	6	2	
PC14	MC-2	849179.50	612154.47	235+38.27	57.9	RT	Estrella	26	7.5	18	22	6	2	
PC15	MC-3	854387.68	607212.81	689+67			75th Ave	26	8	24	23	6	2	

ID	Align.	Northing	Easting	Approx. Sta./Location	Offset	Lt/Rt	Road Name	Face	Removal (SY)	Aggregate Base (CY)	Asphalt Concrete (CY)	Notes
RX01	WS-1E	849103.39	620050.13	1054+43.24	4.4	LT	Estrella	South		25	8	
RX02	WS-1E	849126.95	620041.93	1054+66.69	4.11	RT	Estrella	North		25	8	
RX03	WS-1E	854415.3	615349.92	1126+23.15	0.01	RT	Elliot	South		25	8	
RX04	WS-1E	854440.39	615315.16	1126+45.81	36.38	LT	Elliot	North		25	8	
RX05	WS-1E	859669.62	607258.01	1231+39.01	54.37	LT	75th AVe	South		25	8	
RX06	WS-1E	859757.55	607310.29	1232+26.79	0.27	LT	Dobbins	North		25	8	
RX07	MC-2	849159.15	615945.82	195+43.49	0.01	RT	Estrella	South		25	8	
RX08	MC-2	849183.06	615945.81	195+67.40	0	RT	Estrella	North		25	8	
RX09	MC-2	849167.03	612379.41	232+72.20	2.79	LT	Estrella	South		25	8	
RX10	MC-2	849193.44	612376.61	232+45.79	0	RT	Estrella	North		25	8	
RX11	MC-2-1N	849190.45	611133.44	500+28	71.16	RT	Estrella	North		25	8	
RX12	MC-2-1N	849160.62	609879.05	513+28			Estrella	South		25	8	
RX13	MC-2-1N	849184.43	609879.12	513+50			Estrella	North		25	8	
RX14	MC-3	854442.59	611026.03	643+38	67.52	RT	Elliot	South		25	8	
RX15	MC-3	854414.68	609937.97	655+00	0	RT	Elliot	South		25	8	
RX16	MC-3	854467.7	609977.97	655+15	40	RT	Elliot	North		25	8	
RX17	MC-3	854441.46	608548.5	669+85	16	LT	Elliot	North		25	8	
RX18	MC-3	854466.24	608564.62	670+10	0	RT	Elliot	South		25	8	
RX19	MC-3	854392.71	607224.59	689+56	5	RT	75th Ave	East		25	8	
RX20	MC-3	854392.73	607201.29	689+80	5	RT	75th Ave	West		25	8	

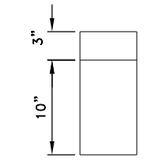


A – O&M ROAD DRIVEWAY DETAIL
NO SCALE

LEGEND

ASPHALT CONCRETE
ADOT STD.
SPEC. SEC. 409

AGGREGATE BASE
CLASS 2
ADOT STD. SPEC.
SEC 303-1



BI – PAVEMENT SECTION
NO SCALE

NOTES:

1. MATCH EXISTING GRADE AT INTERESECTION OF PAVED AND UNPAVED SECTIONS TO ALLOW GATES TO OPEN FREELY
2. MILL 2" AND REPLACE EXISTING PAVEMENT WITH ADOT 409 MIX
3. SEE NOTE 6 DWG. DRN-S-4.0

By	Description	Date	Rev

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REACHES WS-1E AND WS-1F

O&M ROAD DRIVEWAYS AND PAVING DETAILS

DRAWING NAME
C-2.0

TO BE DEVELOPED

FOR 90% SUBMITTAL

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REACHES WS-1E AND WS-1F

LEVEL TOP CANAL 1 OF 2 PIPE CONNECTION

DRAWING NAME
C-3.0

TO BE DEVELOPED

FOR 90% SUBMITTAL

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REACHES WS-1E AND WS-1F

LEVEL TOP CANAL 1 OF 3 SPILLWAY

DRAWING NAME
C-3.1

TO BE DEVELOPED

FOR 90% SUBMITTAL

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REACHES WS-1E AND WS-1F

LEVEL TOP CANAL 2 OF 3 SPILLWAY

DRAWING NAME
C-3.2

TO BE DEVELOPED

FOR 90% SUBMITTAL

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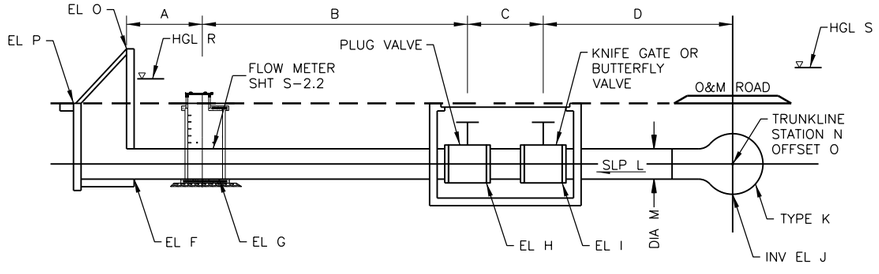
REACHES WS-1E AND WS-1F

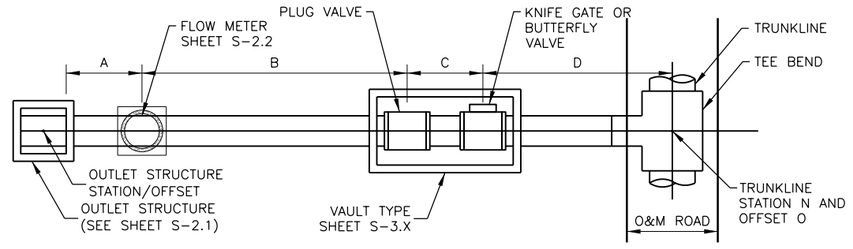
LEVEL TOP CANAL 3 OF 3 SPILLWAY

DRAWING NAME
C-3.3

TURNOUT ID	ALG	A (ft)	B (ft)	C (ft)	D (ft)	E (Elev)	Outlet Structure Station	Outlet Structure Offset	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	Notes
		(ft)	(ft)	(ft)	(ft)	(Elev)			(Elev)	(Elev)	(Elev)	(Elev)	(Elev)	(Type)	(%)	(in)			(Elev)	(Elev)	(Elev)	(Elev)	
WSIE-2	WSIE	5	17.5	5	12.5	1035.65	1015+25.00	41.75	1029.40	1029.42	1029.47	1029.46	1027.99	54"X18" TEE	0.20	18	1015+25.00	0	1035.65	1037.65	1041.69	1047.32	Type 'A' Vault
WSIE-3	WSIE	5	17.5	5	12.5	1034.21	1028+00.00	41.75	1027.87	1027.89	1027.94	1027.93	1026.46	54"X18" TEE	0.20	18	1028+00.00	0	1034.21	1036.21	1039.57	1045.20	Type 'A' Vault
WSIE-4	WSIE	5	17.5	5	12.5	1032.98	1041+50.00	41.75	1026.52	1026.54	1026.59	1026.58	1025.11	54"X18" TEE	0.20	18	1041+50.00	0	1032.98	1034.98	1037.32	1042.95	Type 'A' Vault
WSIE-5	WSIE	5	17.5	5	12.5	1030.93	1056+45.75	41.75	1024.35	1024.36	1024.41	1024.40	1022.93	54"X18" TEE	0.20	18	1056+47.05	0	1030.93	1032.93	1034.77	1040.40	Type 'A' Vault
WSIE-6	WSIE	5	17.5	5	12.5	1019.58	1093+35.00	41.75	1013.41	1013.43	1013.48	1013.47	1012.07	54"X18" TEE	0.20	18	1093+35.01	0	1019.58	1021.58	1029.50	1035.13	Type 'A' Vault
WSIE-7	WSIE	5	17.5	5	12.5	1016.70	1121+86.51	41.75	1010.61	1010.63	1010.68	1010.67	1009.20	54"X18" TEE	0.20	18	1121+86.56	0	1016.70	1018.70	1025.58	1031.21	Type 'A' Vault
WSIE-8	WSIE	5	17.5	5	12.5	1016.66	1130+97.05	41.75	1009.72	1009.73	1009.78	1009.77	1008.30	54"X18" TEE	0.20	18	1130+97.05	0	1016.66	1018.66	1023.74	1029.37	Type 'A' Vault
WSIE-9	WSIE	5	17.5	5	12.5	1014.15	1153+97.05	41.75	1007.43	1007.45	1007.50	1007.49	1006.02	54"X18" TEE	0.20	18	1153+97.05	0	1014.15	1016.15	1021.19	1026.82	Type 'A' Vault
WSIE-10	WSIE	5	17.5	5	12.5	1013.29	1171+97.05	41.75	1005.63	1005.65	1005.70	1005.69	1004.22	54"X18" TEE	0.20	18	1171+97.05	0	1013.29	1015.29	1019.33	1024.96	Type 'A' Vault
WSIE-11	WSIE	5	17.5	5	12.5	1012.19	1194+19.09	41.75	1003.40	1003.43	1003.48	1003.47	1002.00	54"X54"X18"TEE	0.20	18	1194+19.07	0	1012.19	1014.19	1016.97	1022.60	Type 'A' Vault
WSIE-12	WSIE	5	17.5	5	12.5	1009.66	1206+47.05	41.75	1001.68	1001.70	1001.75	1001.74	1000.77	48"X48"X18" TEE	0.20	18	1206+47.05	0	1009.66	1011.66	1014.88	1020.51	Type 'A' Vault
WSIE-13	WSIE	5	17.5	5	12.5	1004.35	1219+47.05	41.75	997.98	998.00	998.05	998.04	997.07	42"X18" TEE	0.20	18	1219+47.05	0	1004.35	1006.35	1010.69	1016.32	Type 'A' Vault
WSIF-1	WSIF	5	17.5	5	12.5	1021.87	127+91.27	41.75	1018.06	1017.82	1017.84	1017.83	1017.15	48"X48"X18" TEE	0.09	18	127+91.27	0	1021.87	1023.87	1041.34	1046.97	Type 'A' Vault
WSIF-2	WSIF	5	17.5	5	12.5	1021.09	140+11.27	41.75	1016.85	1016.86	1016.91	1016.90	1015.93	42"X18" TEE	0.20	18	140+11.27	0	1021.09	1023.09	1038.80	1044.43	Type 'A' Vault
WSIF-3	WSIF	5	17.5	5	12.5	1022.15	146+41.27	41.75	1016.21	1016.23	1016.28	1016.27	1015.30	42"X18" TEE	0.20	18	146+41.27	0	1022.15	1024.15	1037.43	1043.06	Type 'A' Vault
WSIF-4	WSIF	5	17.5	5	12.5	1021.55	159+41.27	41.75	1014.91	1014.93	1014.98	1014.97	1014.00	42"X18" TEE	0.20	18	159+41.27	0	1021.55	1023.55	1034.72	1040.35	Type 'A' Vault
WSIF-5	WSIF	5	17.5	5	12.5	1022.62	165+86.27	41.75	1014.27	1014.29	1014.34	1014.33	1013.36	42"X18" TEE	0.20	18	165+86.27	0	1022.62	1024.62	1033.32	1038.95	Type 'A' Vault
WSIF-6	WSIF	5	17.5	5	12.5	1021.71	175+91.27	41.75	1013.27	1013.29	1013.33	1013.32	1012.36	42"X18" TEE	0.20	18	175+91.27	0	1021.71	1023.71	1031.20	1036.83	Type 'A' Vault
MC2-1	MC2	5	134	5	16.5	1021.67	179+31.24	162.35	1012.83	1012.84	1012.90	1012.90	1012.03	42"X18" TEE	0.04	18	179+30.86	0	1021.67	1023.67	1028.73	1035.54	Type 'A' Vault
MC2-2	MC2	5	17.5	5	12.5	1018.62	196+71.28	41.75	1010.93	1010.97	1011.02	1011.01	1010.28	42"X24" TEE	0.20	24	196+71.18	0	1018.62	1020.62	1030.50	1032.24	Type 'A' Vault
MC2-3	MC2	5	17.5	5	12.5	1018.52	206+41.27	41.75	1009.96	1009.98	1010.03	1010.02	1009.31	42"X24" TEE	0.20	24	206+41.27	0	1018.52	1020.52	1028.39	1030.13	Type 'A' Vault
MC2-4	MC2	5	17.5	5	12.5	1014.60	219+41.27	41.75	1008.68	1008.69	1008.74	1008.73	1008.01	42"X18" TEE	0.20	24	219+41.27	0	1014.60	1016.60	1025.69	1027.43	Type 'A' Vault
MC2-5	MC2	5	17.5	5	12.5	1006.30	233+66.39	41.75	1000.85	1000.92	1000.96	1000.95	999.93	42"X18" TEE	0.20	18	233+66.28	0	1006.30	1008.30	1017.90	1023.53	Type 'A' Vault
MC1-1	MC1	6	27.5	5	12.5	1045.62	309+83.47	52.75	1036.66	1036.66	1036.73	1036.72	1036.00	48"X30" TEE	0.20	30	309+83.50	0	1045.62	1047.62	1048.20	1048.84	Type 'B' Vault
MC1-2	MC1	6	27.5	5	12.5	1051.06	314+93.56	52.75	1036.95	1036.94	1037.00	1036.99	1036.51	48"X36" TEE	0.20	36	314+93.56	0	1051.06	1053.06	1048.36	1048.66	Type 'B' Vault
MC1-3	MC1	6	27.5	5	12.5	1046.54	342+32.06	52.75	1039.65	1039.66	1039.73	1039.72	1039.25	48"X48"X36" TEE	0.20	36	342+32.03	0	1046.54	1048.54	1047.41	1047.71	Type 'B' Vault
MC21N-1	MC21N	5	23.5	5	6.5	1002.82	536+83.99	41.75	996.87	996.89	996.95	996.94	996.71	30"X30"X 18" TEE	0.20	18	537+49.99	0	1002.82	1004.82	1012.32	1017.95	Type 'A' Vault
MC21S-2	MC21S	5	23.5	5	6.5	1001.53	400+50.00	41.75	998.66	998.68	998.74	998.73	997.99	36"X36"X 24"TEE	0.20	18	400+50.00	0	1001.53	1003.53	1017.09	1021.45	Type 'A' Vault
MC22N-1	MC22N	5	17.5	5	12.5	1014.10	N/A	N/A	1009.40	1009.42	1009.47	1009.46	1008.74	42"X42"X42" Tee	0.20	24	N/A	0	1014.10	1016.10	1020.14	1021.88	Type 'A' Vault
MC22N-2	MC22N	5	17.5	5	12.5	1013.33	N/A	N/A	1009.40	1009.42	1009.47	1009.46	1008.74	42"X42"X42" Tee	0.20	24	N/A	0	1013.33	1015.33	1020.14	1021.88	Type 'A' Vault
MC22N-3	MC22N	5	17.5	5	13.2	1015.06	824+85.00	41.75	1009.15	1009.18	1009.23	1009.22	1008.40	42"X24" TEE	0.20	24	824+85.01	0	1015.06	1017.06	1020.80	1022.54	Type 'A' Vault
MC3-1	MC3	5	17.5	5	12.5	1014.51	604+00.00	41.75	1008.71	1008.73	1008.78	1008.77	1007.55	54"X54"X18"TEE	0.20	18	604+00.00	0	1014.51	1016.51	1024.79	1030.42	Type 'A' Vault
MC3-3	MC3	5	17.5	5	12.5	1011.57	655+66.23	41.75	1004.75	1004.77	1004.82	1004.81	1004.09	48"X48"X 18" TEE	0.20	18	655+66.26	0	1011.57	1013.57	1018.84	1024.47	Type 'A' Vault
MC3-4	MC3	5	17.5	5	12.5	1008.27	656+72.20	41.75	1002.66	1002.68	1002.73	1002.72	1002.00	36"X18" TEE	0.20	18	656+72.20	0	1008.27	1010.27	1018.53	1024.16	Type 'A' Vault
MC3-5	MC3	5	17.5	5	12.5	999.96	674+35.90	41.75	995.27	995.29	995.34	995.33	995.11	24"X18" TEE	0.20	18	674+35.90	0	999.96	1001.96	1012.23	1017.86	Type 'A' Vault
MC3-6	MC3	5	17.5	5	12.5	991.98	690+20.14	41.75	987.16	987.17	987.22	987.22	986.99	24"X24"X18" TEE	0.20	18	690+20.14	0	991.98	993.98	1004.79	1010.42	Type 'A' Vault
MC3-7	MC3	5	17.5	5	12.5	992.24	690+20.14	41.75	987.15	987.17	987.22	987.21	986.99	24"X24"X18" TEE	0.20	18	690+20.14	0	992.24	994.24	1004.79	1010.42	Type 'A' Vault
MC31N-1	MC31N	5	19.3	5	12.5	1005.95	706+99.99	43.51	1000.39	1000.41	1000.46	1000.45	999.33	42"X18" TEE	0.20	18	707+00.00	0	1005.95	1007.95	1019.82	1025.45	Type 'A' Vault
MC31N-2	MC31N	5	16.3	5	13.7	1005.19	715+00.03	41.75	1000.43	1000.45	1000.49	1000.49	1000.28	24"X18" TEE	0.20	18	715+00.00	0	1005.19	1007.19	1018.15	1023.78	Type 'A' Vault
MC32N-1	MC32N	5	17.5	5	12.5	1004.93	913+24.40	41.75	1002.42	1002.40	1002.35	1002.35	1002.08	30"X30"X18" TEE	0.20	18	913+24.03	0	1004.93	1006.93	1016.97	1022.60	Type 'A' Vault



PROFILE



PLAN

Rev	Date	Description	By

Job No. 647979
Designed MFM
Drawn JD
Checked JZ
Reviewed JZ
Approved JZ
Reg. No. 25118
Plot Date 12-18-14

60% SUBMITTAL NOT FOR CONSTRUCTION

PREPARED BY:
PARSONS
222 SOUTH MILL AVENUE
SUITE #220
TEMPE, ARIZONA 85281
(602)852-9195
(602)952-9303 fax

GILA RIVER INDIAN COMMUNITY

PIMA MARICOPA IRRIGATION PROJECT
P.O. BOX C
192-A SOUTH ROUTE A STREET
SACATON, AZ 85147
(520)562-6700
(520)562-6791 FAX

REACHES WS-1E AND WS-1F

TURNOUT TABLE

DRAWING NAME
C-4.0

TO BE DEVELOPED

FOR 90% SUBMITTAL

PREPARED BY:
PARSONS
222 SOUTH MILL AVENUE
SUITE #220
TEMPE, ARIZONA 85281
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GILA RIVER INDIAN COMMUNITY ARIZONA 1933

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1302 A SOUTH ROUTE A STREET
SACATON, AZ 85147
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60% SUBMITTAL NOT FOR CONSTRUCTION

Job No.	647979
Designed	MFM
Drawn	JD
Checked	JZ
Reviewed	JZ
Approved	JZ
Reg. No.	25118
Plot Date	12-18-14

Rev	Date	Description	By

REACHES WS-1E AND WS-1F

EXISTING WELL CONNECTION 1 OF 2

DRAWING NAME
C-5.0

TO BE DEVELOPED

FOR 90% SUBMITTAL

PREPARED BY:
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222 SOUTH MILL AVENUE
SUITE #220
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60% SUBMITTAL NOT FOR CONSTRUCTION

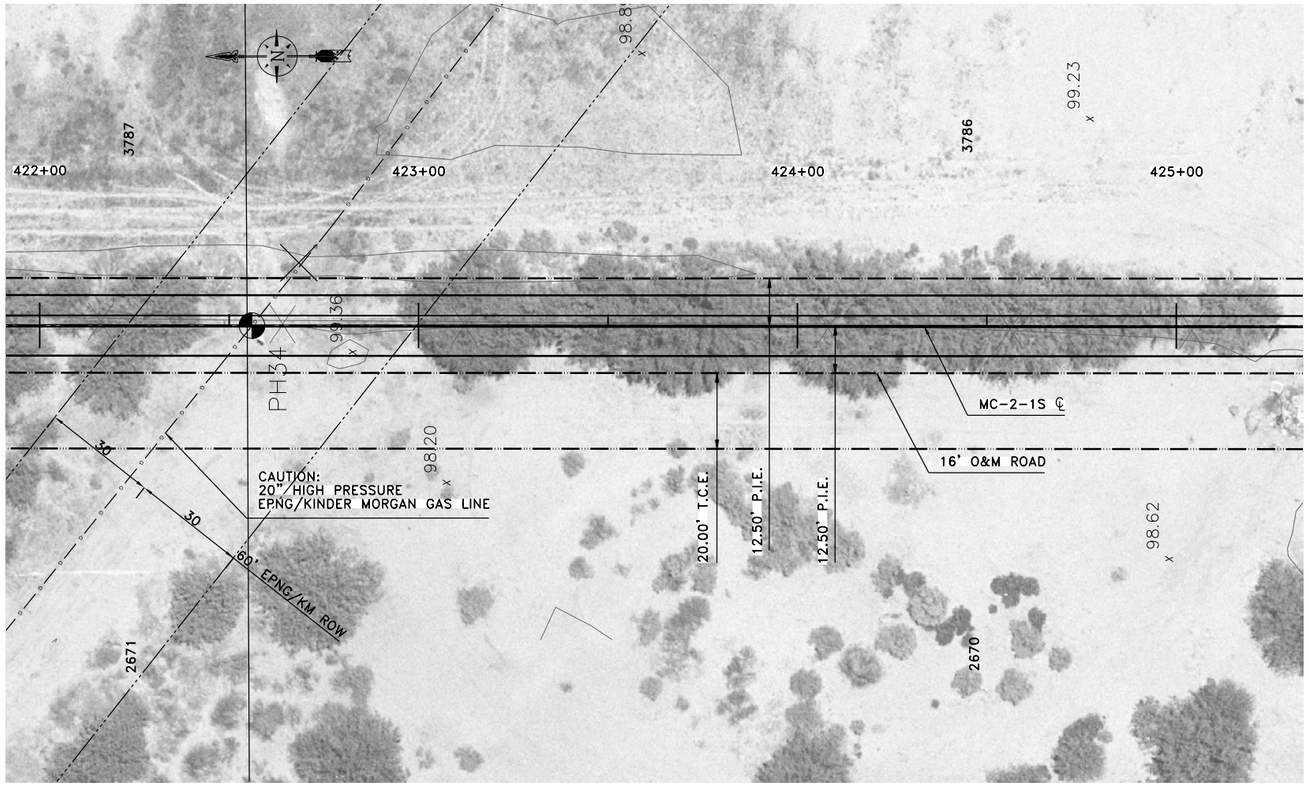
Job No.	647979
Designed	MFM
Drawn	JD
Checked	JZ
Reviewed	JZ
Approved	JZ
Reg. No.	25118
Plot Date	12-18-14

Rev	Date	Description	By

REACHES WS-1E AND WS-1F

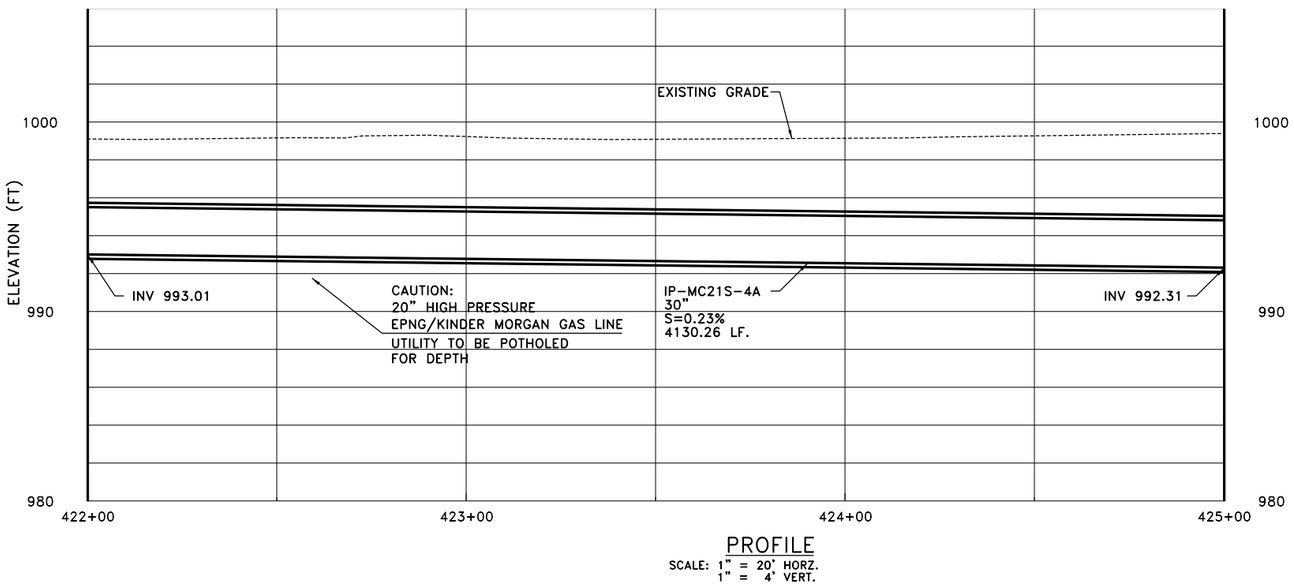
EXISTING WELL CONNECTION 2 OF 2

DRAWING NAME
C-5.1



PLAN

0 20 40
GRAPHIC SCALE



PROFILE

SCALE: 1" = 20' HORZ.
1" = 4' VERT.

NOTES

1. PIPE SHALL BE FIBERGLASS OR HDPE PER SHEET G-5.0.
2. "CAUTION HIGH PRESSURE GAS LINE" CONTACT (RUSSELL WILLIAMS DAMAGE PREVENTION SUPERVISOR AT 602-438-4249) AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY NEAR THE EPNG/KINDER MORGAN GAS PIPELINE.
3. CONTRACTOR MUST MEET WITH KINDER MORGAN REPRESENTATIVES PRIOR TO CONSTRUCTION TO PROVIDE AND RECEIVE NOTIFICATION LISTINGS FOR APPROPRIATE AREA OPERATIONS AND EMERGENCY PERSONNEL. KM'S ON-SITE REPRESENTATIVE WILL REQUIRE DISCONTINUATION OF ANY WORK THAT, IN HIS OPINION, ENDANGERS THE OPERATIONS OR SAFETY OF PERSONNEL, PIPELINES OR FACILITIES.
4. CONTRACTOR MUST EXPOSE ALL KM PIPELINES PRIOR TO CROSSING TO DETERMINE THE EXACT ALIGNMENT AND DEPTH OF THE LINES. A KM REPRESENTATIVE MUST BE PRESENT. IN THE EVENT OF PARALLEL LINES, ONLY ONE PIPELINE CAN BE EXPOSED AT A TIME.
5. KM WILL NOT ALLOW PIPELINES TO REMAIN EXPOSED OVERNIGHT WITHOUT CONSENT OF KM DESIGNATED REPRESENTATIVE. CONTRACTOR MAY BE REQUIRED TO BACKFILL PIPELINES AT THE END OF EACH DAY.
6. A KM REPRESENTATIVE SHALL DO ALL LINE LOCATING. A KM REPRESENTATIVE SHALL BE PRESENT FOR HYDRAULIC EXCAVATION. THE USE OF PROBING RODS FOR PIPELINE LOCATING SHALL BE PERFORMED BY KM REPRESENTATIVES ONLY, TO PREVENT UNNECESSARY DAMAGE TO THE PIPELINE COATING.
7. NOTIFICATION SHALL BE GIVEN TO KM AT LEAST 72 HOURS BEFORE START OF CONSTRUCTION. A SCHEDULE OF ACTIVITIES FOR THE DURATION OF THE PROJECT MUST BE MADE AVAILABLE AT THAT TIME TO FACILITATE THE SCHEDULING OF KINDER MORGAN, INC.'S WORK SITE REPRESENTATIVE. ANY CONTRACTOR SCHEDULE CHANGES SHALL BE PROVIDED TO KINDER MORGAN, INC.'S IMMEDIATELY.
8. CONTRACTOR IS REQUIRED TO OBTAIN WRITTEN APPROVAL FOR USE OF ANY HEAVY EQUIPMENT DIRECTLY OVER KM PIPELINES OR IN KM ROW. HEAVY EQUIPMENT SHALL ONLY BE ALLOWED TO CROSS KM PIPELINES AT LOCATIONS DESIGNATED BY KINDER MORGAN, INC. CONTRACTOR SHALL COMPLY WITH ALL PRECAUTIONARY MEASURES REQUIRED BY KM TO PROTECT ITS PIPELINES. WHEN INCLEMENT WEATHER EXISTS, PROVISIONS MUST BE MADE TO COMPENSATE FOR SOIL DISPLACEMENT DUE TO SUBSIDENCE OF TIRES. EQUIPMENT EXCAVATING WITHIN TEN (10) FEET OF KM PIPELINES WILL HAVE A PLATE GUARD INSTALLED OVER THE TEETH TO PROTECT THE PIPELINE.
9. EXCAVATING OR GRADING WHICH MIGHT RESULT IN EROSION OR WHICH COULD RENDER THE KM ROW INACCESSIBLE SHALL NOT BE PERMITTED UNLESS THE CONTRACTOR AGREES TO RESTORE THE AREA TO ITS ORIGINAL CONDITION AND PROVIDE PROTECTION TO KM'S FACILITY.
10. A KM REPRESENTATIVE SHALL BE ON-SITE TO OBSERVE ANY CONSTRUCTION ACTIVITIES WITHIN TEN (10) FEET OF A KM PIPELINE OR ABOVEGROUND APPURTENANCE. THE CONTRACTOR SHALL NOT WORK WITHIN THIS DISTANCE WITHOUT A KM REPRESENTATIVE BEING ON SITE. ONLY HAND EXCAVATION SHALL BE PERMITTED WITHIN TWO (2) FEET OF KM PIPELINES, VALVES AND FITTINGS UNLESS STATE REQUIREMENTS ARE MORE STRINGENT. HOWEVER, PROCEED WITH EXTREME CAUTION WHEN WITHIN THREE (3) FEET OF THE PIPE.
11. A KM REPRESENTATIVE WILL MONITOR CONSTRUCTION ACTIVITY WITHIN 25 FEET OF KM FACILITIES DURING AND AFTER THE ACTIVITIES TO VERIFY THE INTEGRITY OF THE PIPELINE AND TO ENSURE THE SCOPE AND CONDITIONS AGREED TO HAVE NOT CHANGED. MONITORING MEANS TO CONDUCT SITE INSPECTIONS ON A PRE-DETERMINED FREQUENCY BASED ON ITEMS SUCH AS: SCOPE OF WORK, DURATION OF EXPECTED EXCAVATOR WORK, TYPE OF EQUIPMENT, POTENTIAL IMPACT ON PIPELINE, COMPLEXITY OF WORK AND/OR NUMBER OF EXCAVATORS INVOLVED.
12. RIPPING IS ONLY ALLOWED WHEN THE POSITION OF THE PIPE IS KNOWN AND NOT WITHIN TEN (10) FEET OF KM FACILITY UNLESS COMPANY REPRESENTATIVE IS PRESENT.
13. TEMPORARY SUPPORT OF ANY EXPOSED KM PIPELINE BY CONTRACTOR MAY BE NECESSARY IF REQUIRED BY KM'S ON-SITE REPRESENTATIVE. BACKFILL BELOW THE EXPOSED LINES AND 12" ABOVE THE LINES SHALL BE REPLACED WITH SAND OR OTHER SELECTED MATERIAL AS APPROVED BY KM'S ON-SITE REPRESENTATIVE AND THOROUGHLY COMPACTED IN 12" LIFTS TO 95% OF STANDARD PROCTOR DRY DENSITY MINIMUM OR AS APPROVED BY KM'S ON-SITE REPRESENTATIVE. THIS IS TO ADEQUATELY PROTECT AGAINST STRESSES THAT MAY BE CAUSED BY THE SETTLING OF THE PIPELINE.
14. ANY CONTACT WITH ANY KM FACILITY, PIPELINE, VALVE SET, ETC. SHALL BE REPORTED IMMEDIATELY TO KM. IF REPAIRS TO THE PIPE ARE NECESSARY, THEY WILL BE MADE AND INSPECTED BEFORE THE SECTION IS RE-COATED AND THE LINE IS BACK-FILLED.
15. KM PERSONNEL SHALL INSTALL ALL TEST LEADS ON KM FACILITIES AS NEEDED.
16. BURNING OF TRASH, BRUSH, ETC. IS NOT PERMITTED WITHIN THE KM ROW.

By	Description	Date	Rev

Job No. 647979
Designed MFM
Drawn JD
Checked JZ
Reviewed JZ
Approved JZ
Reg. No. 25118
Plot Date 12-18-14

60% SUBMITTAL
NOT FOR
CONSTRUCTION

PREPARED BY:
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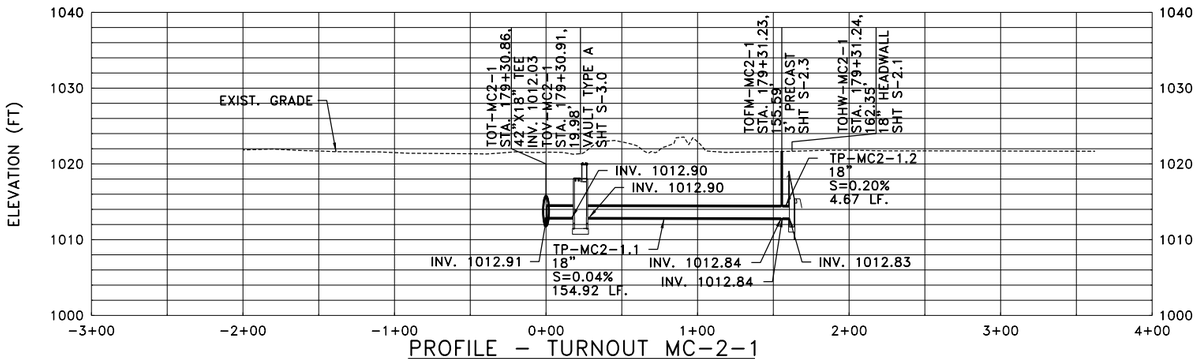
REACHES WS-1E AND WS-1F

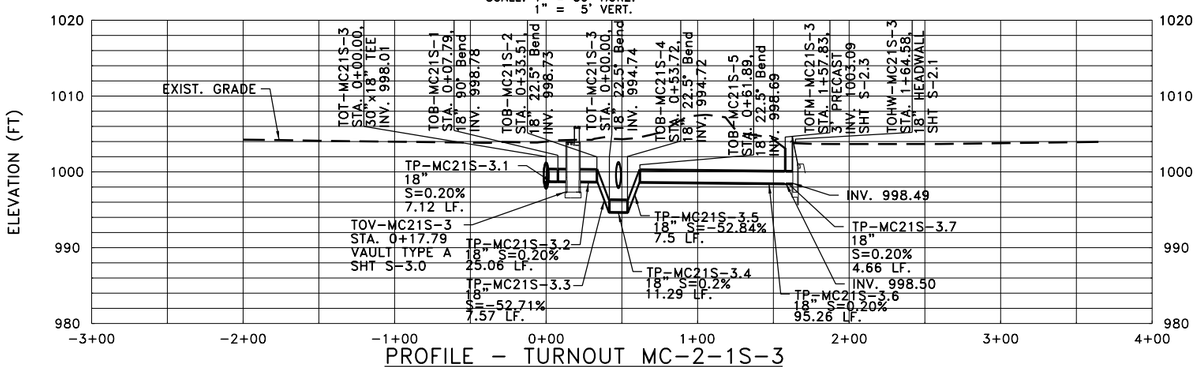
EPNG/KINDER MORGAN GAS LINE CROSSING DETAIL

DRAWING NAME
C-6.0



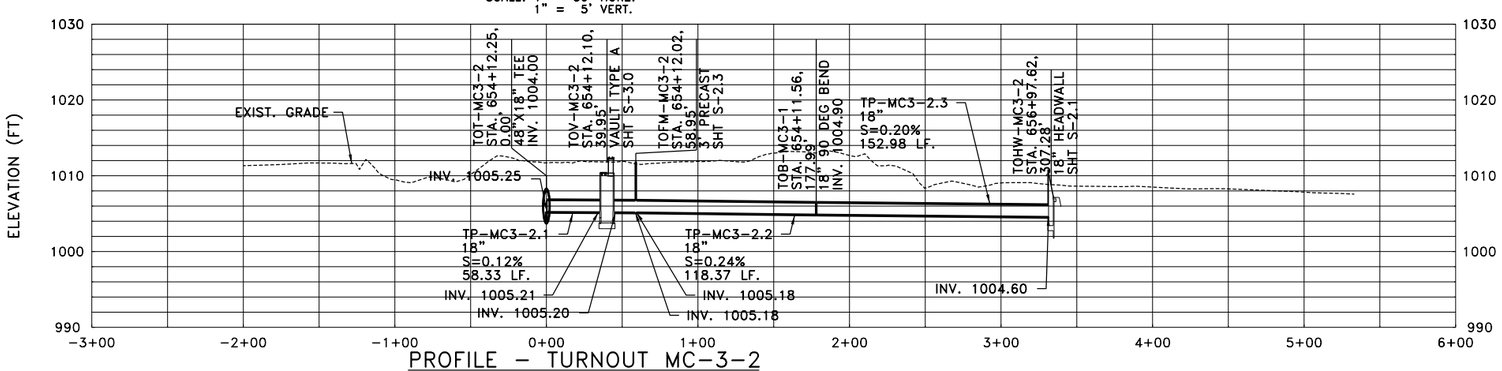
PROFILE – TURNOUT MC-2-1

SCALE: 1" = 50' HORZ.
1" = 5' VERT.



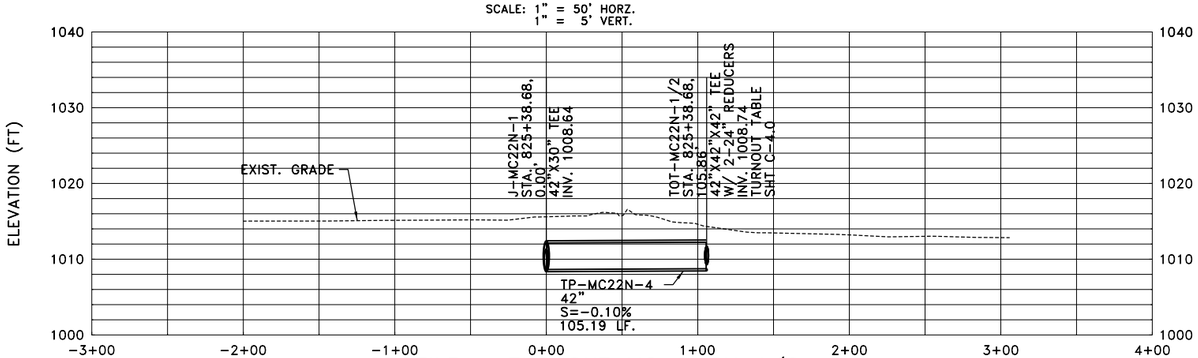
PROFILE – TURNOUT MC-2-1S-3

SCALE: 1" = 50' HORZ.
1" = 5' VERT.



PROFILE – TURNOUT MC-3-2

SCALE: 1" = 50' HORZ.
1" = 5' VERT.



PROFILE – TURNOUT MC-2-2N 1/2

SCALE: 1" = 50' HORZ.
1" = 5' VERT.

Rev	Date	Description	By

Job No. 647979
Designed MFM
Drawn JD
Checked JZ
Reviewed JZ
Approved JZ
Reg. No. 25118
Plot Date 12-18-14

60% SUBMITTAL
NOT FOR
CONSTRUCTION

PREPARED BY:
PARSONS
222 SOUTH MILL AVENUE
SUITE #220
TEMPE, ARIZONA 85281
(602)852-9195
(602)952-9303 fax

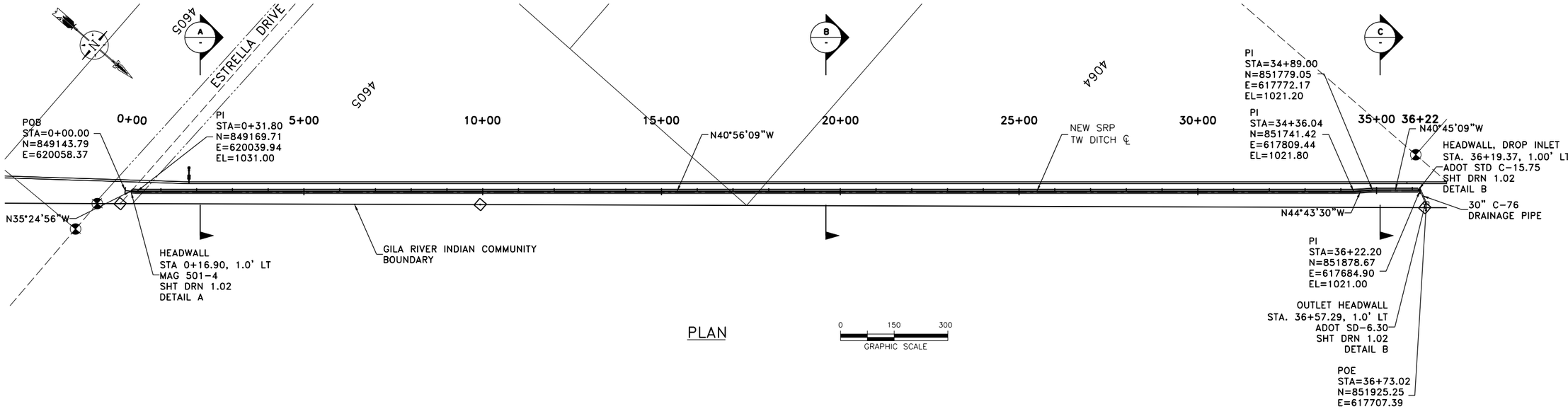
GILA RIVER INDIAN COMMUNITY
ARIZONA
1939

PIMA MARICOPA IRRIGATION PROJECT
P.O. BOX C
192-A SOUTH ROUTE A STREET
SACATON, AZ 85147
(520)562-3311 (520)562-6791 FAX

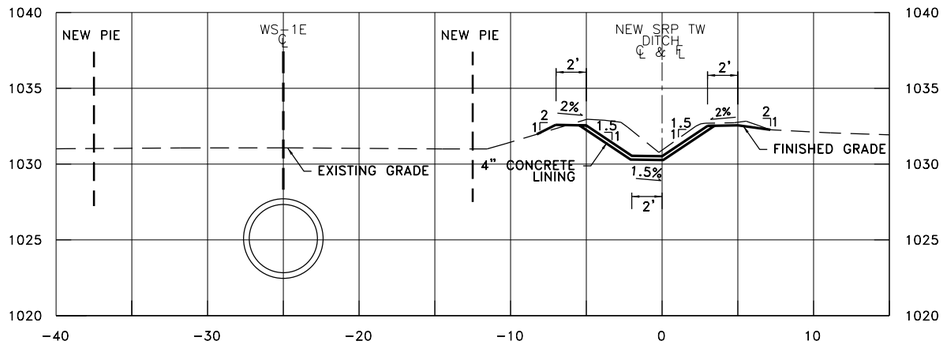
REACHES WS-1E AND WS-1F

TURNOUT OUTLET PROFILES

DRAWING NAME
C-7.0

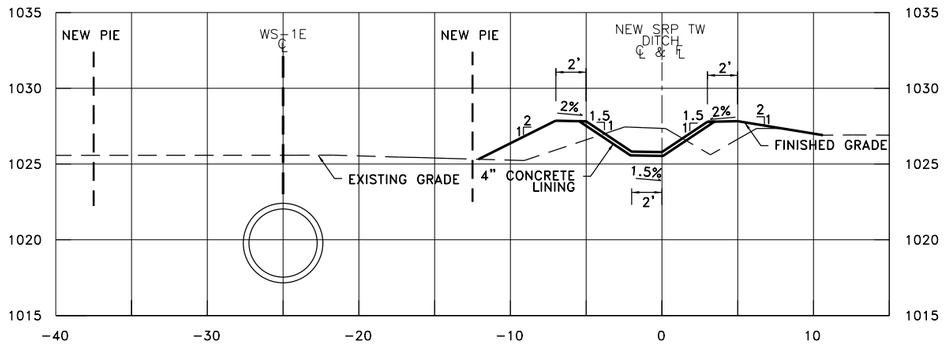


PLAN



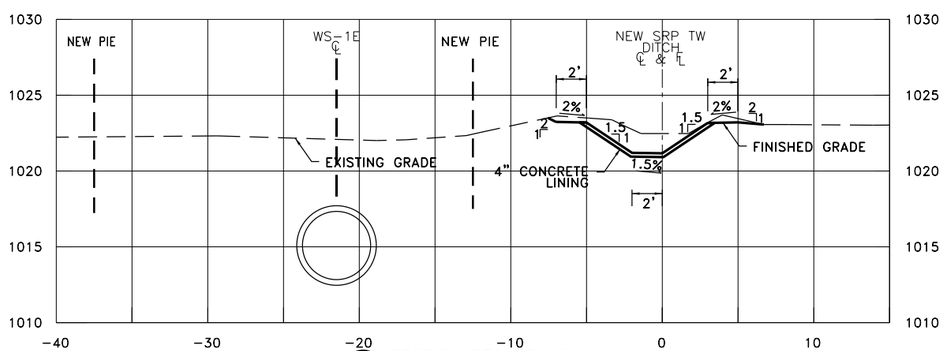
A SECTION STA 2+10

SCALE: 1" = 5' HORZ.
1" = 5' VERT.



B SECTION STA 19+60

SCALE: 1" = 5' HORZ.
1" = 5' VERT.



C SECTION STA 35+10

SCALE: 1" = 5' HORZ.
1" = 5' VERT.

LEGEND:

E.P.N.G.	EL PASO NATURAL GAS/KINDER MORGAN
A.D.O.T.	ARIZONA DEPARTMENT OF TRANSPORTATION/MARICOPA COUNTY
P.O.B.	POINT OF BEGINNING
P.O.E.	POINT OF ENDING
R.O.W.	RIGHT-OF-WAY
P.I.E.	PERMANENT IRRIGATION EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
	ROW BOUNDARY
	TCE BOUNDARY
	SECTION LINE
	ALIGNMENT CENTERLINE
	ALLOTMENT LINE/GRIC BOUNDARY LINE
3798	ALLOTMENT NUMBER
	MONUMENT FOUND
	CALCULATED SECTION CORNER OR 1/4 CORNER

BEARINGS, DISTANCES AND CURVE DATA ARE ALONG CONTROL LINE UNLESS OTHERWISE NOTED

By	Description	Date	Rev

Job No. 647979
Designed MFM
Drawn JD
Checked JZ
Reviewed JZ
Approved JZ
Reg. No. 25118
Plot Date 12-18-14

60% SUBMITTAL
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PREPARED BY:
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GILA RIVER INDIAN COMMUNITY ARIZONA 1939

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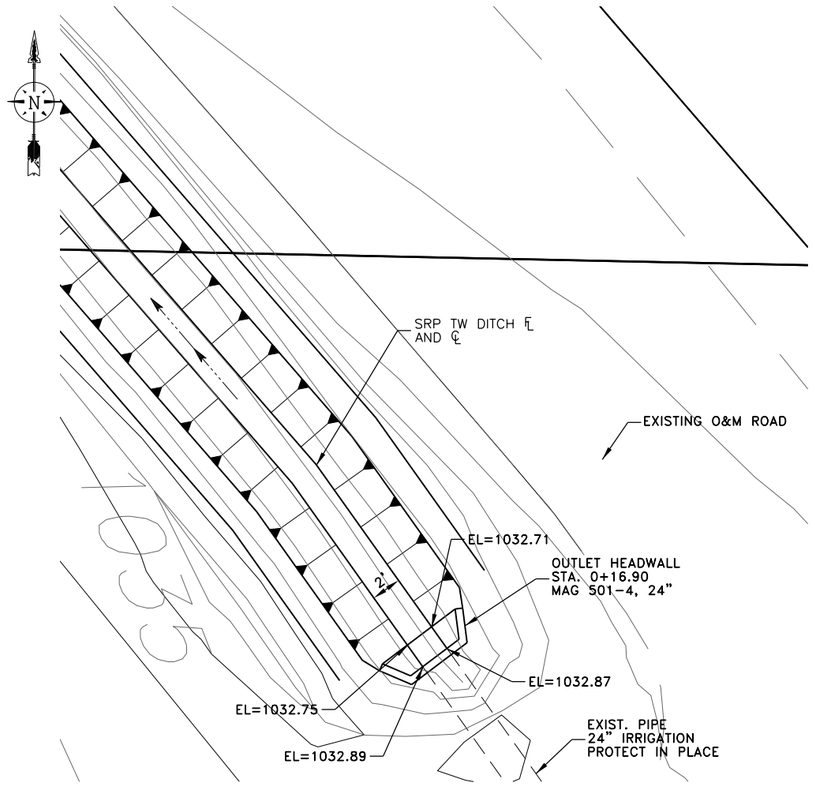
(520)562-6700
(520)562-6791 FAX

REACHES WS-1E AND WS-1F

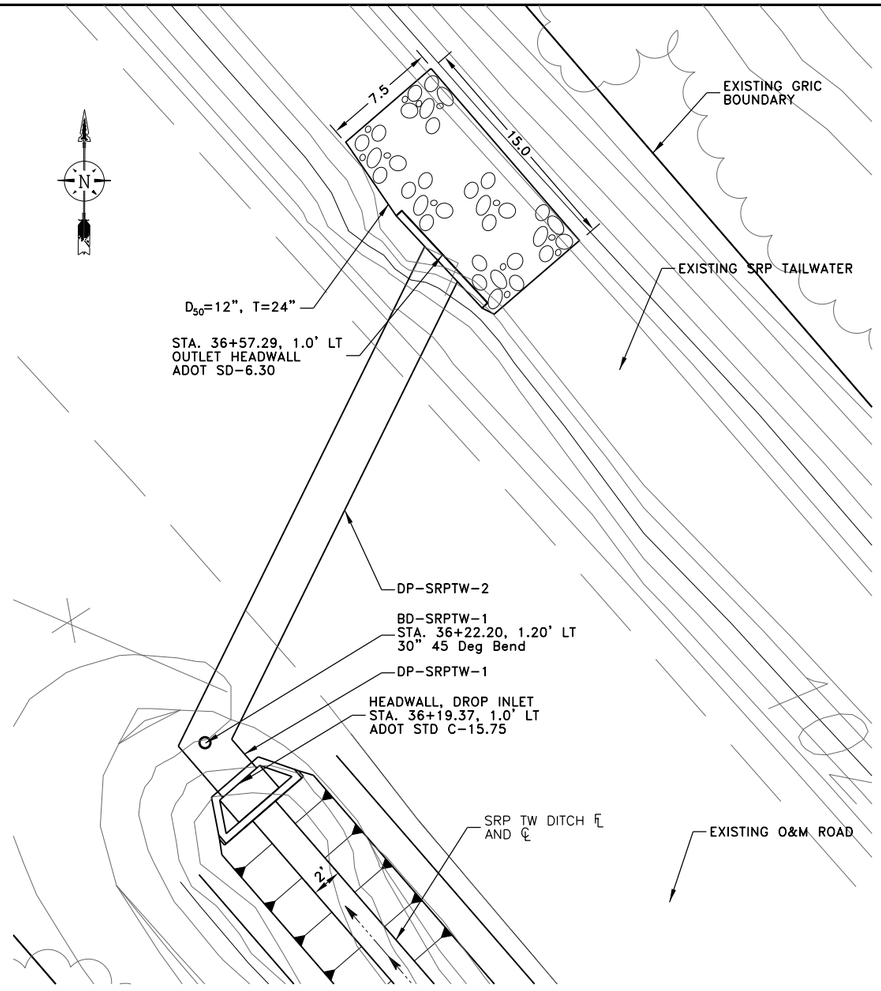
PLAN AND PROFILE
SRP IRRIGATIN DITCH STA. 00+00 TO STA. 36+22

DRAWING NAME
DRN-1.01



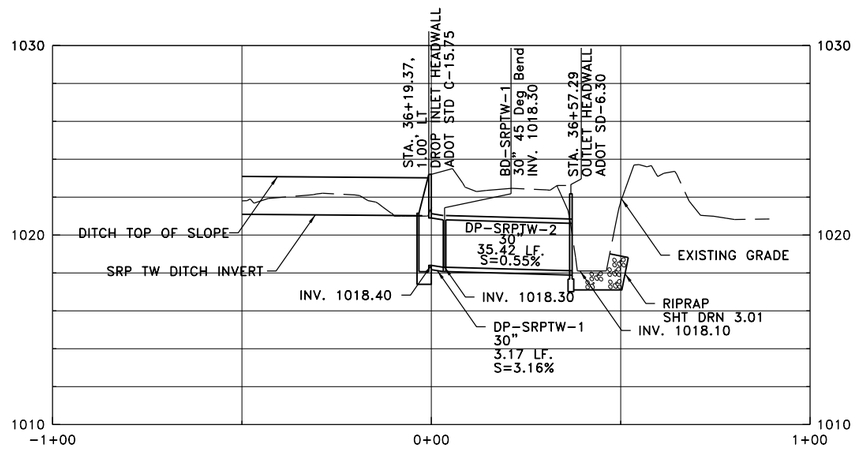
DETAIL A

0 5 10
GRAPHIC SCALE



DETAIL B

0 5 10
GRAPHIC SCALE



PROFILE

SCALE: 1" = 20' HORZ.
1" = 4' VERT.

By	Description	Date	Rev

Job No. 647979
Designed MFM
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GILA RIVER INDIAN COMMUNITY ARIZONA 1939

PIMA
MARICOPA
IRRIGATION
PROJECT
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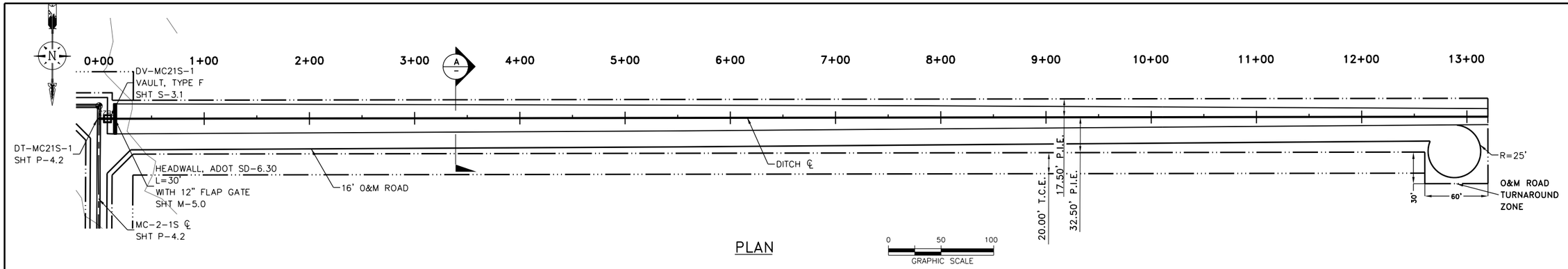
REACHES WS-1E AND WS-1F

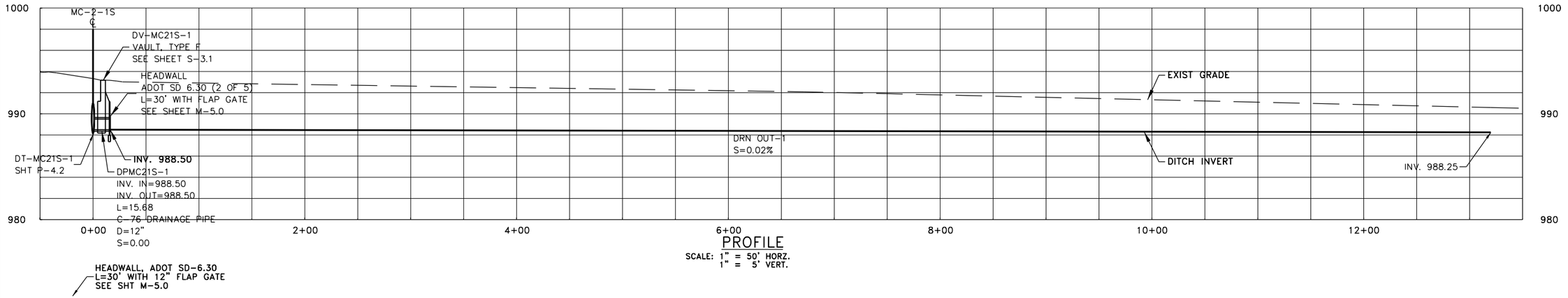
PLAN AND PROFILE
SRP IRRIGATIN DITCH DETAIL

DRAWING NAME
DRN-1.02



PLAN

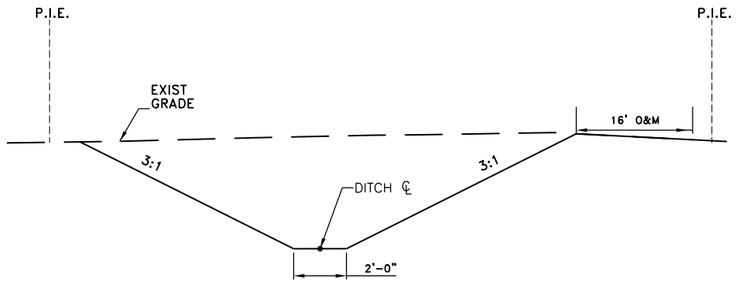
GRAPHIC SCALE 0 50 100



PROFILE

SCALE: 1" = 50' HORZ.
1" = 5' VERT.

HEADWALL, ADOT SD-6.30
L=30' WITH 12" FLAP GATE
SEE SHT M-5.0



A SECTION

By	Description	Date	Rev

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Drawn JD
Checked JZ
Reviewed JZ
Approved JZ
Reg. No. 25118
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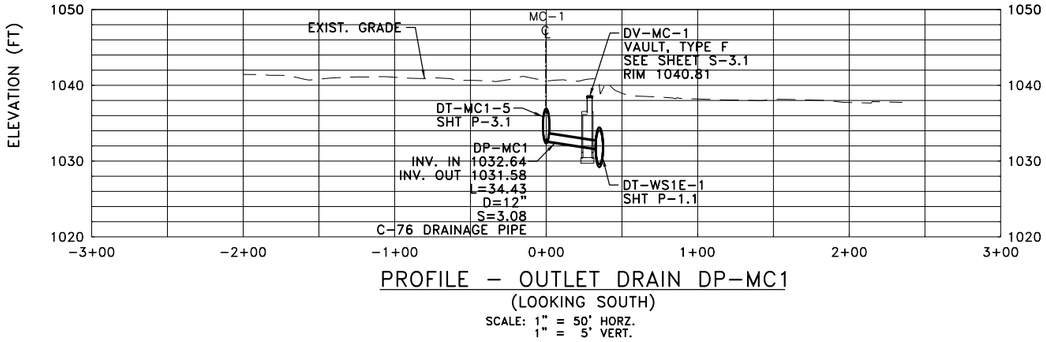
REACHES WS-1E AND WS-1F

IRRIGATION OUTLET DITCH - MC-2-1S

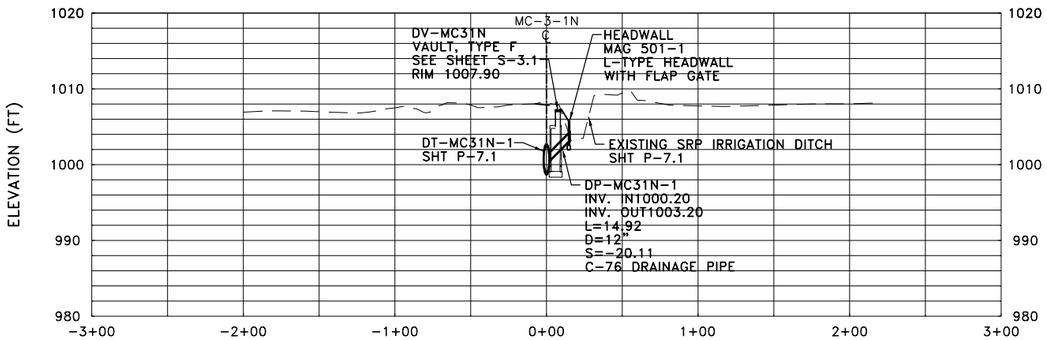
DRAWING NAME
DRN 2.01



PROFILE – OUTLET DRAIN DP-MC1

(LOOKING SOUTH)

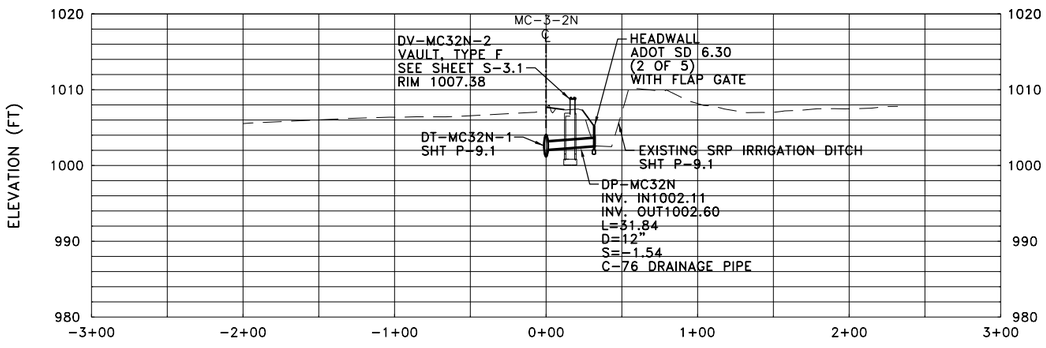
SCALE: 1" = 50' HORZ.
1" = 5' VERT.



PROFILE – OUTLET DRAIN DP-MC31N-1

(LOOKING SOUTH)

SCALE: 1" = 50' HORZ.
1" = 5' VERT.



PROFILE – OUTLET DRAIN DP-MC32N

(LOOKING EAST)

SCALE: 1" = 50' HORZ.
1" = 5' VERT.

Rev	Date	Description	By

Job No. 647979
Designed MFM
Drawn JD
Checked JZ
Reviewed JZ
Approved JZ
Reg. No. 25118
Plot Date 12-18-14

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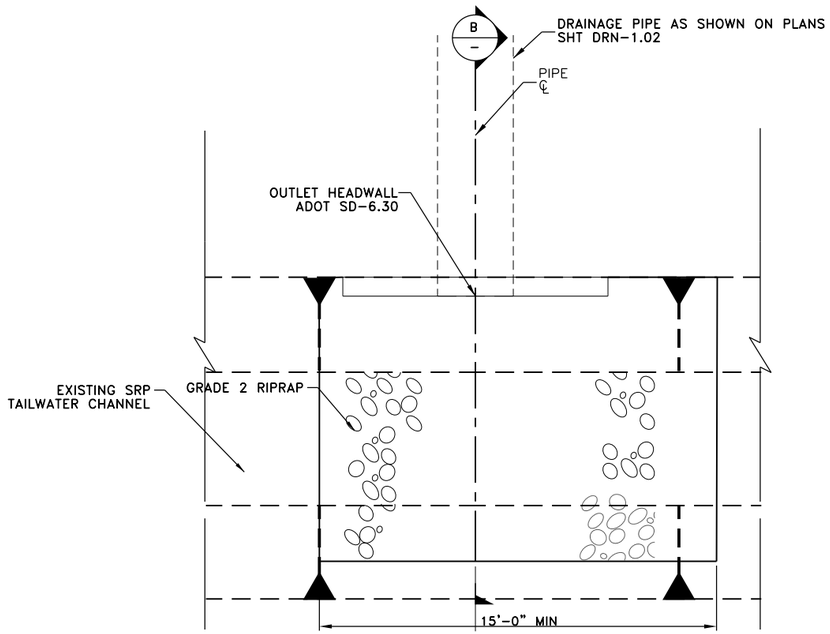
REACHES WS-1E AND WS-1F

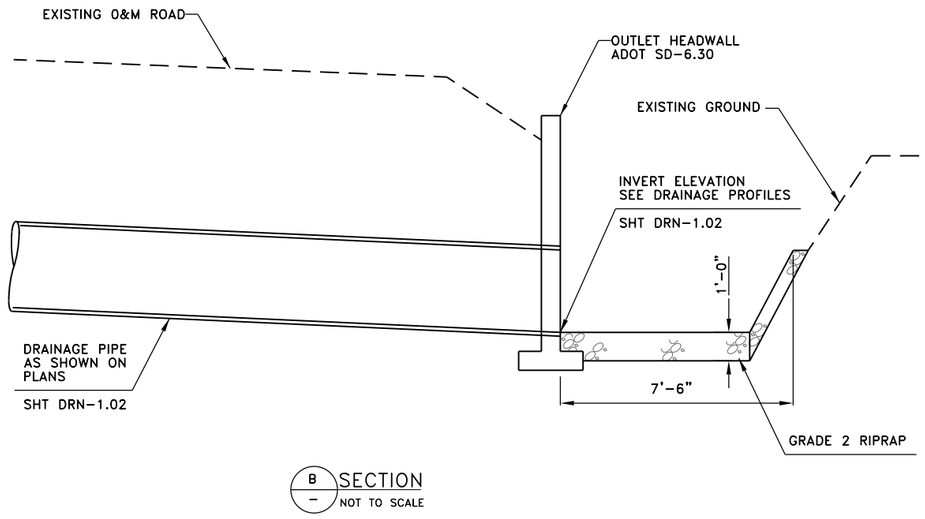
IRRIGATION OUTLET DRAIN

DRAWING NAME
DRN 2.03



PLAN VIEW

NOT TO SCALE



B – SECTION

NOT TO SCALE

NOTES:

1. CONCRETE SHALL BE CLASS A (f'c = 3,000 PSI).
2. REINFORCING STEEL SHALL CONFORM TO ASTM A615/A615M–96A, GRADE 60.
3. SEE ADOT SD–6.30 FOR STRUCTURAL DETAILS.

Rev	Date	Description	By

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Drawn JD
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Reviewed JZ
Approved JZ
Reg. No. 25118
Plot Date 12–18–14

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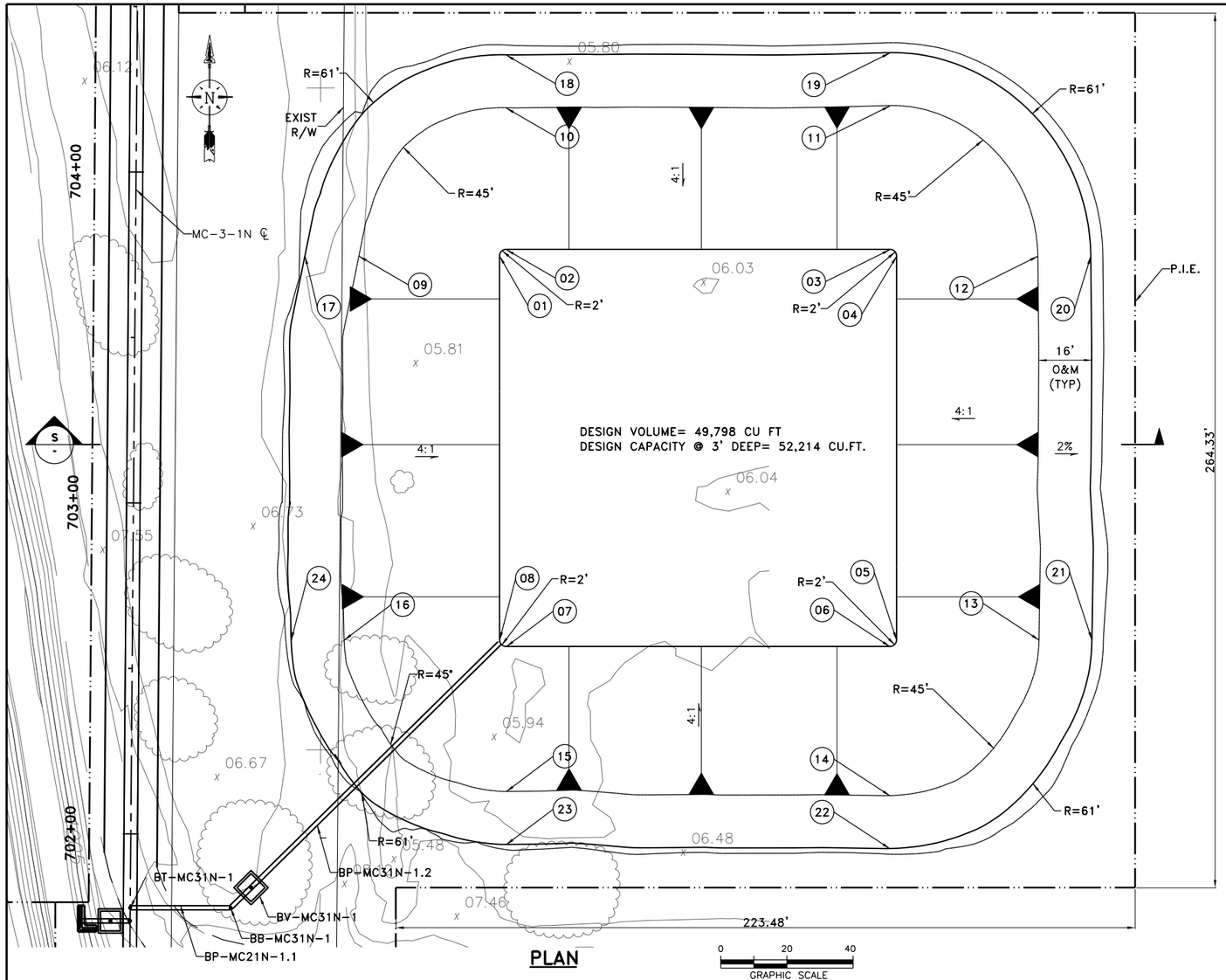
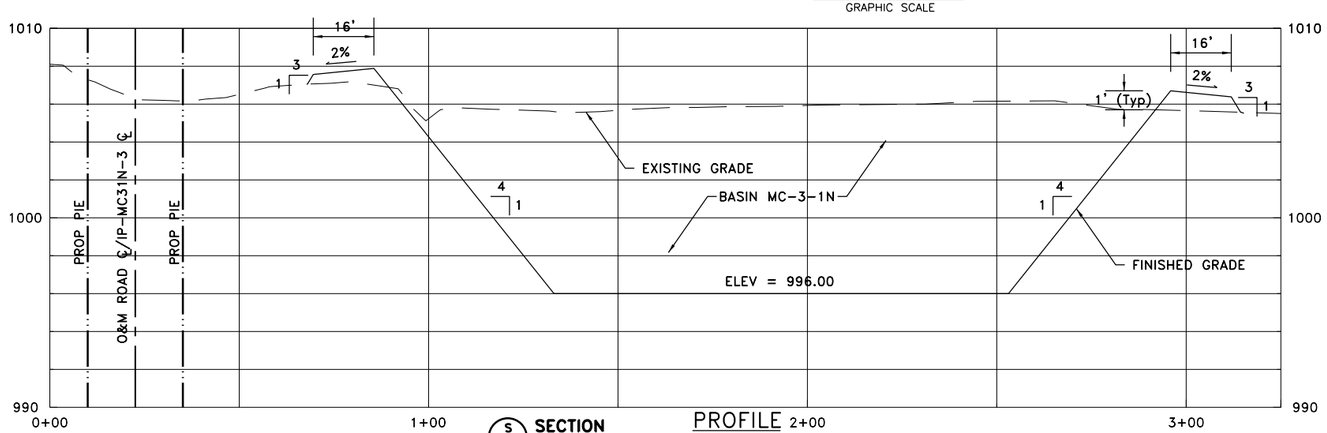
REACHES WS-1E AND WS-1F

RIPRAP DETAIL

DRAWING NAME
DRN–3.01



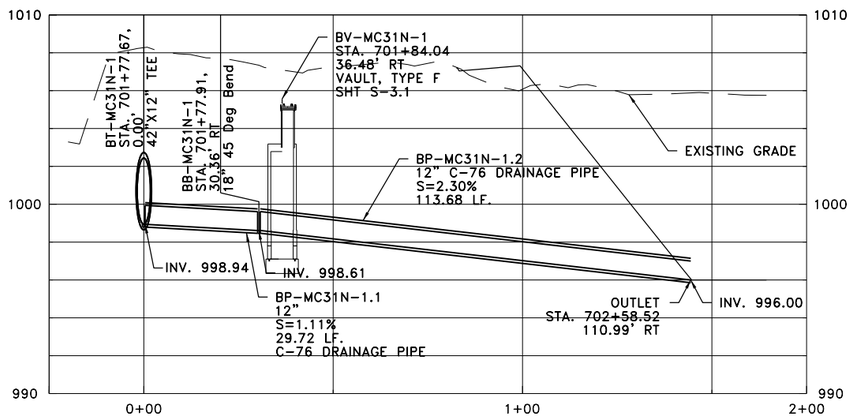
PLAN



S - SECTION NTS

PROFILE
SCALE: 1" = 20' HORZ.
1" = 4' VERT.

BASIN GRADING DATA			
POINT NO.	NORTHING	EASTING	ELEVATION
01	854749.24	611254.09	996.00
02	854751.24	611256.09	996.00
03	854751.24	611372.10	996.00
04	854749.24	611374.10	996.00
05	854633.24	611374.10	996.00
06	854631.24	611372.10	996.00
07	854631.24	611256.09	996.00
08	854633.24	611254.09	996.00
09	854749.24	611211.59	1006.83
10	854794.02	611256.09	1006.70
11	854794.67	611372.10	1006.86
12	854749.24	611416.80	1006.68
13	854633.24	611417.16	1006.77
14	854586.17	611372.10	1007.27
15	854587.43	611256.09	1006.95
16	854633.24	611207.11	1007.75
17	854749.24	611195.26	1006.65
18	854810.02	611256.09	1006.38
19	854810.67	611372.10	1006.54
20	854749.24	611432.80	1006.36
21	854633.24	611433.16	1006.45
22	854570.17	611372.10	1006.95
23	854571.43	611256.09	1006.63
24	854633.24	611191.10	1007.43



MANHOLE TO PIPE OUTLET

PROFILE
SCALE: 1" = 20' HORZ.
1" = 4' VERT.

By	Description	Date	Rev

Job No. 647979
Designed MFM
Drawn JD
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Approved JZ
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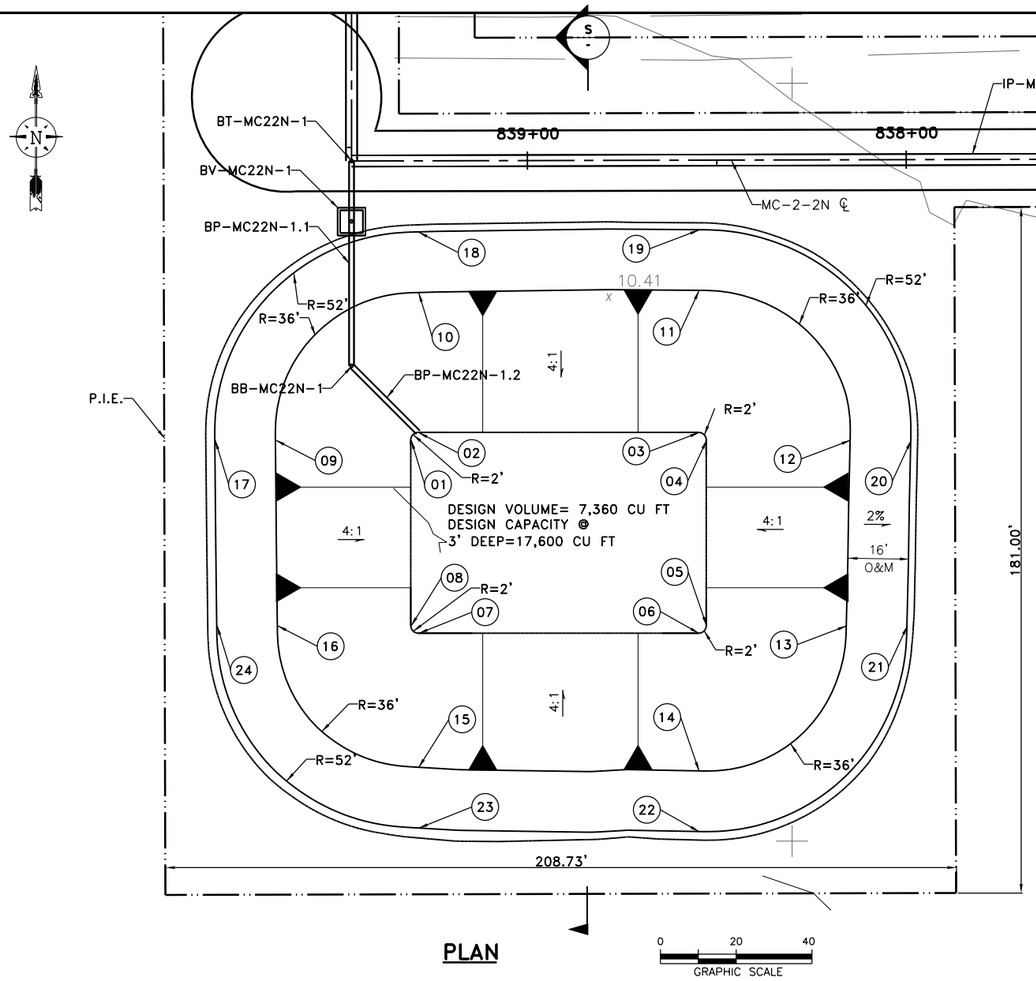
REACHES WS-1E AND WS-1F

PLAN AND PROFILE
BASIN MC-3-1N

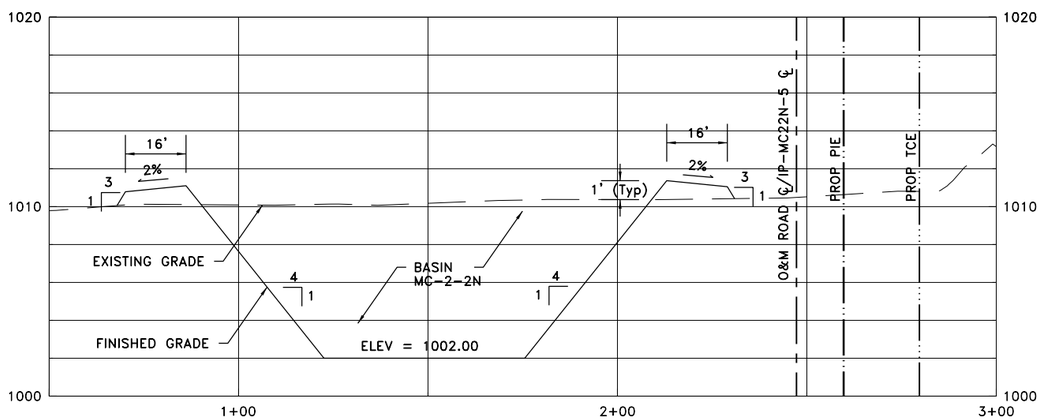
DRAWING NAME
DRN 4.01



PLAN

GRAPHIC SCALE 0 20 40

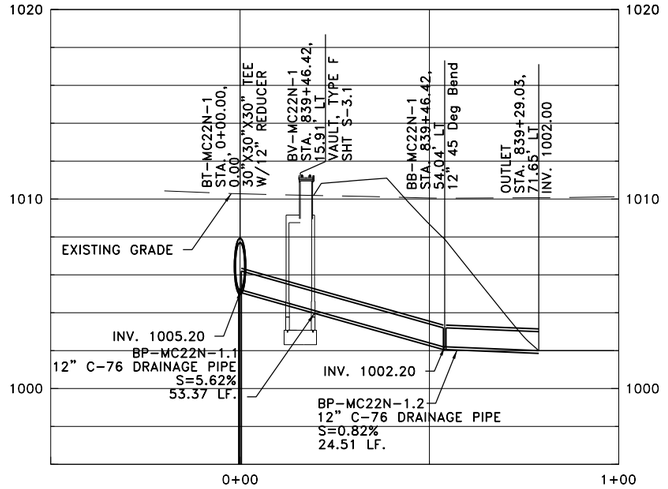
BASIN GRADING DATA			
POINT NO.	NORTHING	EASTING	ELEVATION
01	851705.87	611099.33	1002.00
02	851707.87	611101.33	1002.00
03	851707.87	611175.33	1002.00
04	851705.87	611177.33	1002.00
05	851656.87	611177.33	1002.00
06	851654.87	611175.33	1002.00
07	851654.87	611101.33	1002.00
08	851656.87	611099.33	1002.00
09	851705.87	611063.60	1010.93
10	851744.77	611101.33	1011.22
11	851745.35	611175.33	1011.37
12	851705.87	611215.32	1011.50
13	851656.87	611214.30	1011.24
14	851618.54	611175.33	1011.08
15	851619.50	611101.33	1010.85
16	851656.87	611064.11	1010.81
17	851705.87	611047.60	1010.61
18	851760.77	611101.33	1010.91
19	851761.35	611175.33	1011.05
20	851705.87	611231.32	1011.18
21	851656.87	611230.30	1010.92
22	851602.54	611175.33	1010.76
23	851603.47	611101.33	1010.54
24	851656.87	611048.11	1010.49



S SECTION

PROFILE

SCALE: 1" = 20' HORZ.
1" = 4' VERT.



TEE TO PIPE OUTLET

PROFILE

SCALE: 1" = 20' HORZ.
1" = 4' VERT.

By	Description	Date	Rev

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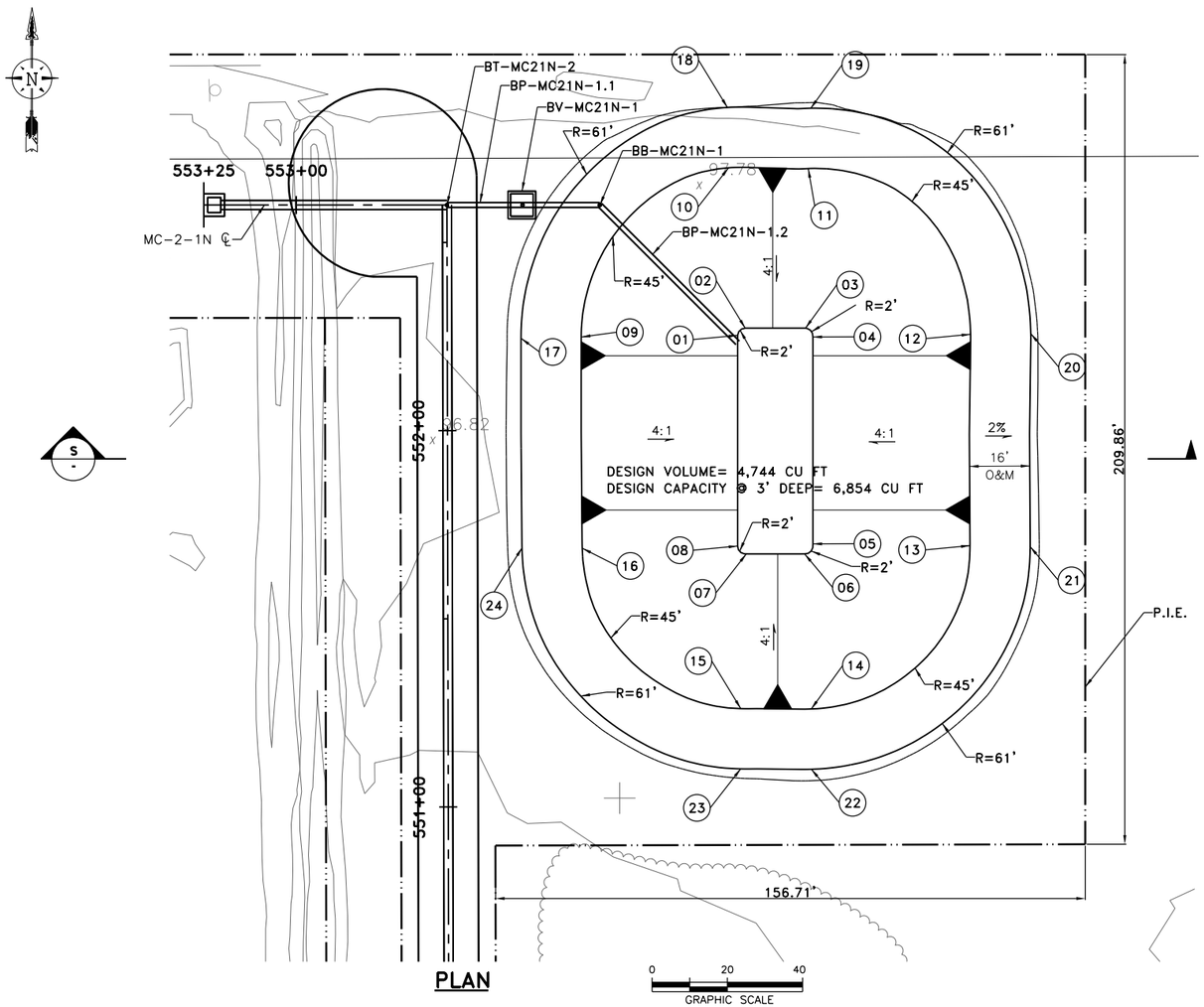
REACHES WS-1E AND WS-1F

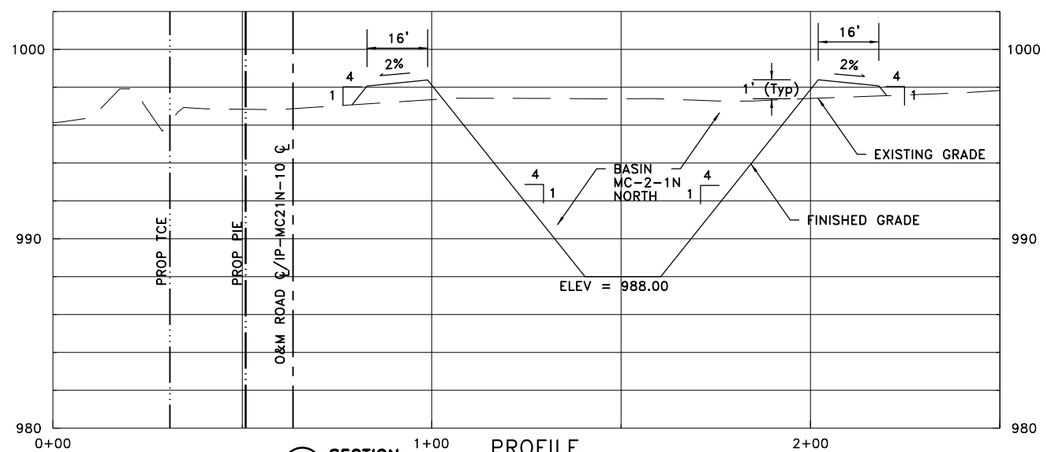
PLAN AND PROFILE
BASIN MC-2-2N

DRAWING NAME
DRN 4.02



PLAN

GRAPHIC SCALE 0 20 40

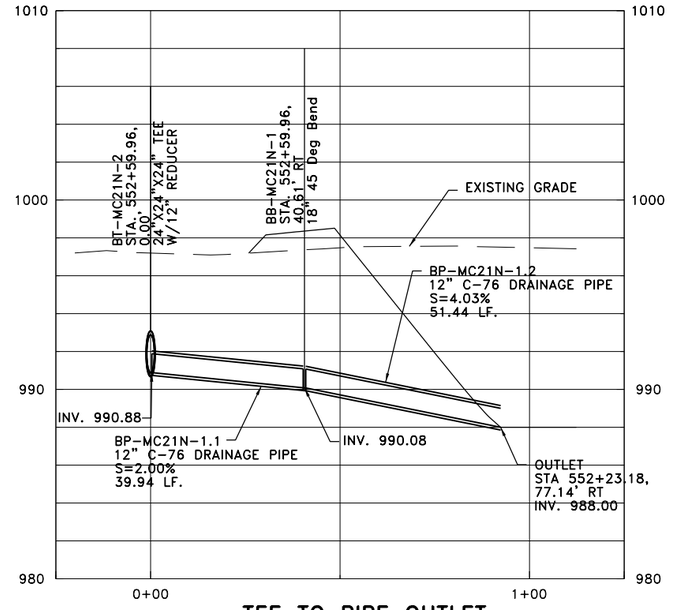


S SECTION

PROFILE

SCALE: 1" = 20' HORZ.
1" = 4' VERT.

BASIN GRADING DATA			
POINT NO.	NORTHING	EASTING	ELEVATION
01	851722.99	608631.34	988.00
02	851724.88	608633.33	988.00
03	851724.88	608649.33	988.00
04	851722.55	608651.32	988.00
05	851667.55	608651.33	988.00
06	851664.88	608648.61	988.00
07	851664.88	608634.11	988.00
08	851667.49	608631.33	988.00
09	851723.24	608589.79	998.39
10	851767.60	608633.33	998.68
11	851767.25	608649.33	998.60
12	851722.89	608693.23	998.48
13	851665.81	608693.04	998.44
14	851623.63	608648.96	998.31
15	851623.76	608633.28	998.28
16	851667.24	608590.03	998.33
17	851723.34	608573.79	998.07
18	851783.60	608633.33	998.37
19	851783.27	608649.33	998.29
20	851723.02	608709.23	998.16
21	851665.14	608709.03	998.12
22	851607.63	608649.10	997.99
23	851607.76	608632.95	997.96
24	851667.15	608574.03	998.01



TEE TO PIPE OUTLET

PROFILE

SCALE: 1" = 20' HORZ.
1" = 4' VERT.

By	Description	Date	Rev

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P.O. BOX C
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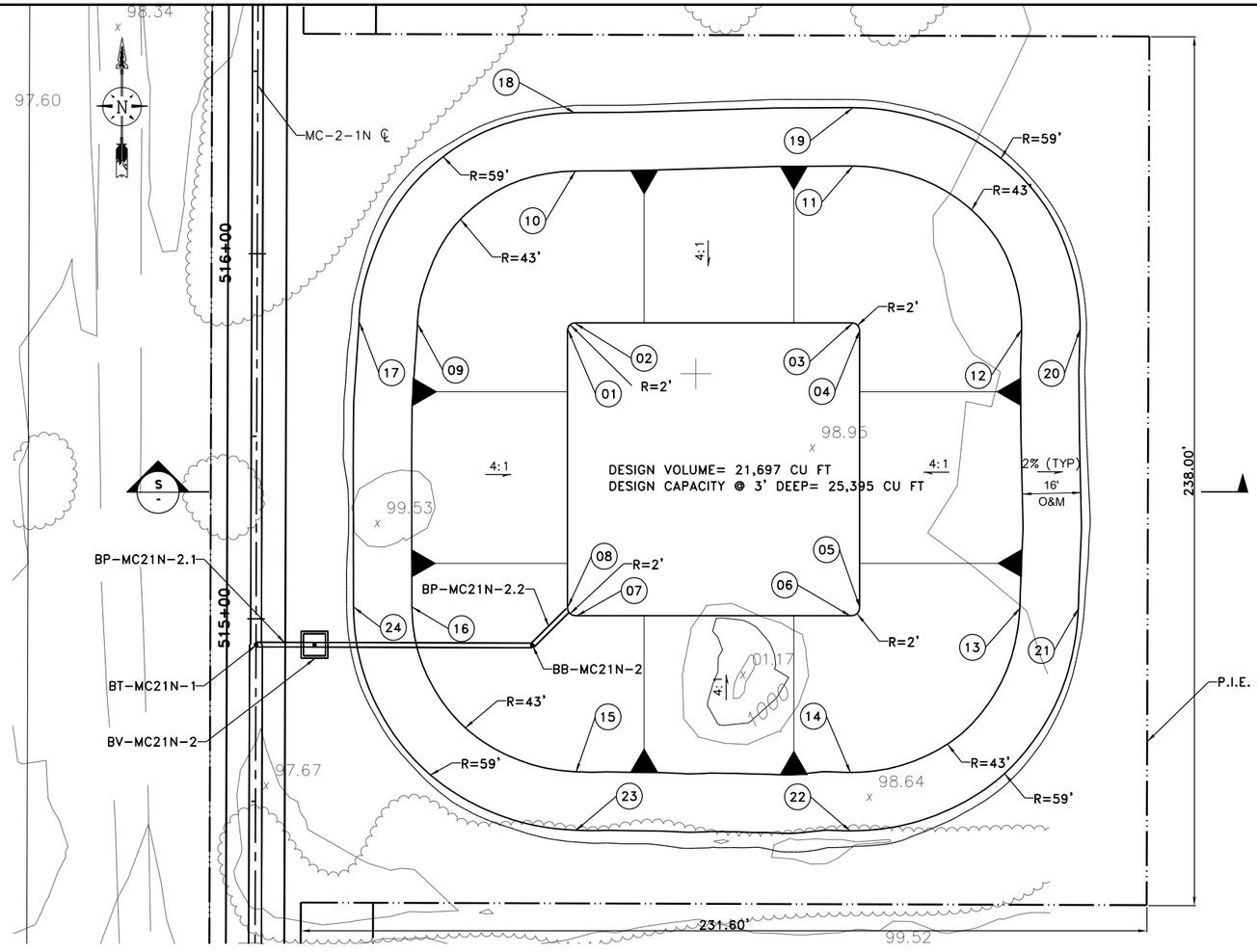
SACATON, AZ 85147
(520)562-6700
(520)562-6791 FAX

REACHES WS-1E AND WS-1F

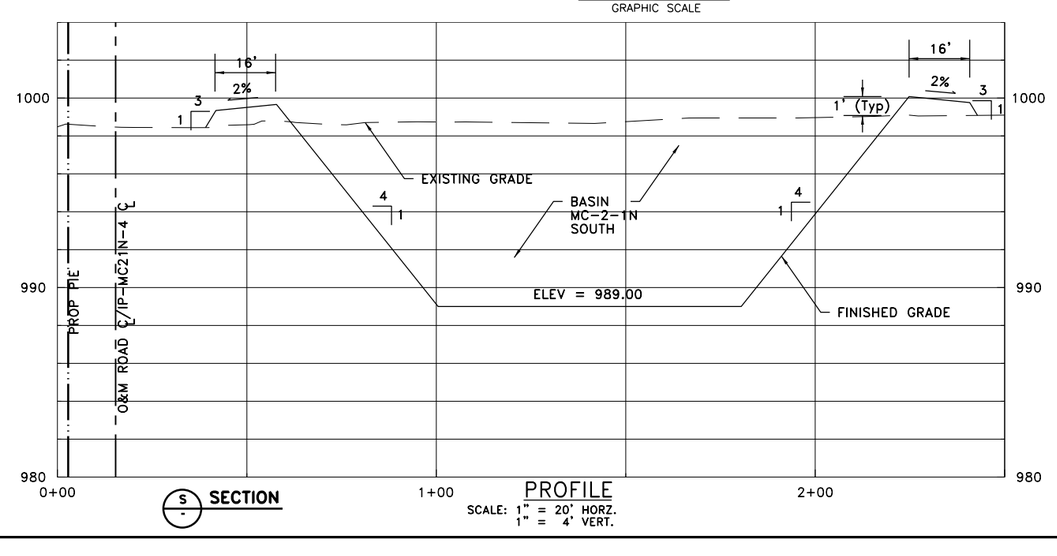
PLAN AND PROFILE
BASIN MC-2-1N NORTH

DRAWING NAME
DRN 4.03



PLAN

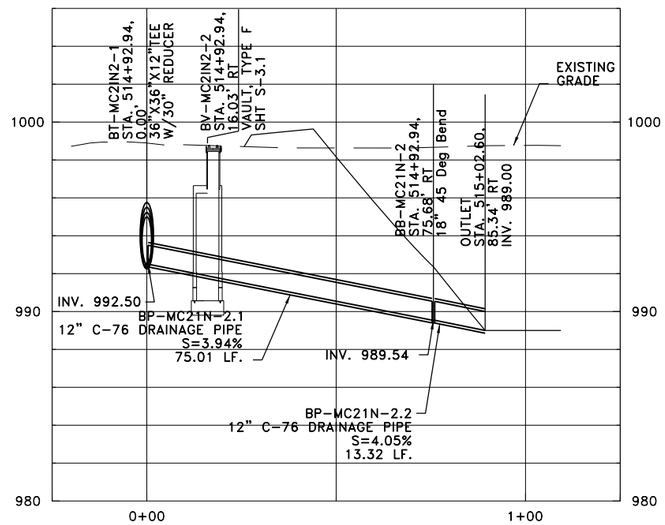
GRAPHIC SCALE 0 20 40



S SECTION

PROFILE
SCALE: 1" = 20' HORZ.
1" = 4' VERT.

BASIN GRADING DATA			
POINT NO.	NORTHING	EASTING	ELEVATION
01	849412.18	609964.89	989.00
02	849413.95	609966.85	989.00
03	849413.95	610042.85	989.00
04	849412.06	610044.85	989.00
05	849336.06	610044.85	989.00
06	849333.73	610042.29	989.00
07	849333.74	609967.29	989.00
08	849336.19	609964.85	989.00
09	849413.65	609923.78	999.29
10	849455.51	609966.85	999.40
11	849456.91	610042.85	999.74
12	849412.33	610089.20	1000.09
13	849335.92	610088.72	999.97
14	849290.79	610042.29	999.74
15	849290.98	609967.12	999.69
16	849336.19	609922.26	999.65
17	849414.21	609907.79	998.97
18	849471.52	609966.85	999.08
19	849472.91	610042.85	999.42
20	849412.43	610105.20	999.77
21	849335.87	610104.73	999.66
22	849274.79	610042.29	999.42
23	849274.96	609967.05	999.38
24	849336.19	609906.26	999.33



TEE TO PIPE OUTLET

PROFILE
SCALE: 1" = 20' HORZ.
1" = 4' VERT.

By	Description	Date	Rev

Job No. 647979
Designed MFM
Drawn JD
Checked JZ
Reviewed JZ
Approved JZ
Reg. No. 25118
Plot Date 12-18-14

60% SUBMITTAL
NOT FOR
CONSTRUCTION

PREPARED BY:
PARSONS
222 SOUTH MILL AVENUE
SUITE #220
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GILA RIVER INDIAN COMMUNITY ARIZONA 1939

PIMA MARICOPA IRRIGATION PROJECT
P.O. BOX C
192-A SOUTH ROUTE A STREET
SACATON, AZ 85147
(520)562-6700
(520)562-6791 FAX

REACHES WS-1E AND WS-1F

PLAN AND PROFILE
BASIN MC-2-1N SOUTH

DRAWING NAME
DRN 4.04

GENERAL NOTES

UNLESS OTHERWISE SHOWN ON THE STRUCTURAL DRAWINGS, DETAILS AND NOTES SHOWN ARE TYPICAL.

DESIGN:

STRUCTURAL DESIGN IS BASED ON 4,000 PSI MINIMUM COMPRESSIVE CONCRETE STRENGTH OF 28 DAYS WITH A WORKING STRESS OF 1,800 PSI, AND WORKING STRESSES OF 24,000 PSI TENSION IN STEEL REINFORCEMENT WITH A SPECIFIED MINIMUM YIELD STRENGTH OF 60,000 PSI.

ABBREVIATIONS:

BF = BOTTOM FACE	BR = BOTTOM ROW
TF = TOP FACE	TR = TOP ROW
NF = NEAR FACE	NR = NEAR ROW
EF = EACH FACE	FR = FAR ROW
FF = FAR FACE	ER = EACH ROW
IF = INSIDE FACE	IR = INSIDE ROW
OF = OUTSIDE FACE	OR = OUTSIDE ROW
	MR = MIDDLE ROW

SPC= SPACE(S)
EQ SPC = EQUAL SPACE(S), EQUALLY SPACED
D = NOMINAL DIAMETER OF REINFORCING BAR.
UV = UNIFORMLY VARYING LENGTHS OF BARS BETWEEN LENGTHS SHOWN.
CL = CLEAR
CTR = CENTER
L = LENGTH OF LAPPED SPLICE IN INCHES
L_D = DEVELOPMENT LENGTH

SYMBOLS:

○——— AN OPEN CIRCLE AT THE END OF A BAR INDICATES A BEND WITH THE BAR TURNED AWAY FROM THE OBSERVER.

●——— A CLOSED CIRCLE AT THE END OF A BAR INDICATES A BEND WITH THE BAR TURNED TOWARD THE OBSERVER.

SPLICES SHOWN THUS ═══ INDICATE A LAPPED SPLICE, NOT A BEND IN THE BAR.

DIMENSIONS:

DIMENSIONS ARE TO THE CENTER LINES OF THE BARS UNLESS OTHERWISE SHOWN. CLEAR COVER DIMENSIONS ARE MARKED "CL".

STANDARD HOOKS:

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 OR 90° BENDS AND EXTENSIONS OF AT LEAST 12 BAR DIAMETERS.
HOOKS FOR STIRRUP AND TIE ANCHORAGE ONLY SHALL HAVE A 90° BEND PLUS AN EXTENSION OF AT LEAST 6 BAR DIAMETERS FOR #5 BARS AND SMALLER AND AT LEAST 12 BAR DIAMETERS FOR #6 THRU #8 BARS OR A 135° BEND PLUS AN EXTENSION OF AT LEAST 6 BAR DIAMETERS RADIUS OR BEND TO BE AS SPECIFIED IN THE TABLE OF PIN DIAMETERS.

A BAR (⊂———) WITH A STANDARD 180° HOOK ON ONE END IS REFERRED TO AS AN "A" BAR.

A BAR (⊂———⊃) WITH A STANDARD 180° HOOK ON BOTH ENDS IS REFERRED TO AS A "B" BAR.

BENT BARS:

ONLY BILLET STEEL SHALL BE USED FOR BARS BENT TO A RADIUS OF 50 BAR DIAMETERS OR LESS.

UNLESS OTHER RADIUS BENDS ARE INDICATED ON THE DRAWINGS, ALL REINFORCEMENT REQUIRING BENDING SHALL BE BENT AROUND A PIN HAVING THE FOLLOWING DIAMETER.

TABLE A: PIN DIAMETERS (INCHES)

BAR No.	3	4	5	6	7	8	9	10	11	14S	18S
STANDARD BENDS DIA. OF PIN (IN.)	2½	3	3¾	6	7	8	10⅛	11¼	12⅜	17*	22½*
STIRRUP AND TIE BENDS DIA. OF PIN (IN.)	1⅞	2½	3⅛	5¼	7	8	10⅛	11¼	12⅜		

*SPECIAL FABRICATION FOR ALL BENDS.

COVER:

PLACE THE REINFORCEMENT SO THAT THE CLEAR DISTANCE BETWEEN FACE OF CONCRETE AND NEAREST REINFORCEMENT IS 1 1/2" FOR #5 BARS AND SMALLER AND 2" FOR #6 BARS AND LARGER; EXCEPT PROVIDE A CLEAR DISTANCE FROM FACE OF CONCRETE PLACED AGAINST EARTH OR ROCK OF 3". THE CLEAR DISTANCE BEING TO THE DESIGN DIMENSION LINE. REINFORCEMENT PARALLELING CONSTRUCTION JOINTS SHALL HAVE A MIN. OF 2" CLEAR COVER.

PLACING:

REINFORCEMENT AT SMALL OPENINGS (MAX. 18") IN WALLS AND SLABS MAY 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, WATER-STOPS, ANCHOR BOLTS, FORM TIES, CONDUITS AND OTHER EMBEDDED MATERIAL. IN HEAVILY REINFORCED AREAS RELOCATION OF THE EMBEDDED MATERIAL MUST BE CONSIDERED WHEN BARS ARE BENT DUE TO OFFSETS LESS THAN 3" DEEP, THE SLOPE OF THE INCLINED PORTION MUST NOT EXCEED 6 TO 1, OR OTHER EMBEDDED MATERIAL SHALL BE PLACED TO MAINTAIN A CLEAR DISTANCE OF AT LEAST 1 1/3 TIMES THE MAX. SIZE AGGREGATE.

SPACING:

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.

CONCRETE:

CHAMFER ALL EXPOSED CORNERS 3/4"

REINFORCEMENT DOWELS:

DOWELS INDICATED ON THE DRAWING, SUCH AS #8 (D) SHALL HAVE AN EMBEDMENT EQUAL TO L_D AND A PROJECTION EQUAL TO THAT REQUIRED FOR LAP SPLICING A BAR OF THE SAME DIAMETER.

PLAIN DOWELS:

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 AN SAE RATING OF NOT LESS THAN 250.

ACCESSORIES:

BAR SUPPORTS, SPACERS AND OTHER ACCESSORIES ARE NOT SHOWN ON THE DRAWINGS. THE RECOMMENDATIONS OF THE ACI DETAILING MANUAL - LATEST REVISIONS, OR OTHER APPROVED SUPPORTING SYSTEMS SHALL BE USED.

SPLICES:

THE MINIMUM LENGTH OF LAP SPLICING PARALLEL BARS SHALL BE AS GIVEN IN TABLE "B".

SPLICES SHALL BE STAGGERED TO GIVE 12" CLEARANCE BETWEEN ENDS 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 (1/5) THE REQUIRED LENGTH OF LAP OR 6".

WHEN REINFORCING BARS OF DIFFERENT SIZE 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 SHALL BE MAINTAINED.

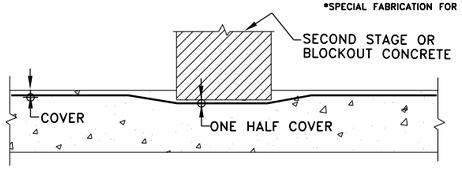
TABLE B*

f'c = 4000 PSI fy = 60,000 PSI

BAR SIZE No.	(L) LENGTH OF LAPPED SPLICE IN INCHES		DEVELOP.	LENGTH $(L_D)_{IN\ INCHES}$
	TOP BARS**	OTHER BARS	TOP BARS**	OTHER BARS
3	18	16	14	12
4	24	19	19	15
5	30	23	23	18
6	36	28	28	22
7	42	33	33	25
8	48	37	37	29
9	55	42	42	32
10	65	50	50	39
11	80	62	62	48

**TOP BARS ARE HORIZONTAL BARS IN BEAMS AND SLABS SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.

*DEVELOPMENT LENGTHS AND SPLICE LENGTHS LISTED IN TABLE "B" ARE CONSISTENT WITH THOSE LISTED FOR CATAGORY 6 CONDITIONS IN THE 1994 ACI DETAILING MANUAL. CATEGORY 6 APPLIES TO BARS PLACED WITH A CONCRETE COVER EQUAL TO OR GREATER THAN 2 BAR DIAMETERS AND CENTER-TO-CENTER SPACING BETWEEN BARS IS EQUAL TO OR GREATER THAN 6 BAR DIAMETERS. IF THESE CONDITIONS ARE NOT SATISFIED, THE LENGTHS LISTED IN TABLE "B" SHALL NOT BE USED.

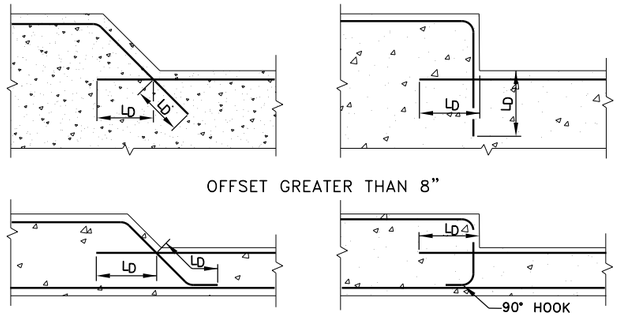


RECESS LESS THAN 3" DEEP

RECESS 3" TO 8" DEEP

RECESS GREATER THAN 8" DEEP

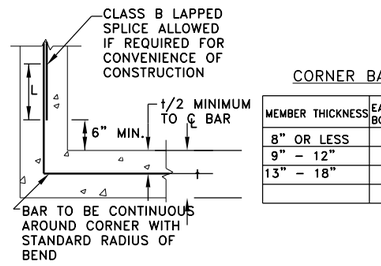
TYPICAL BLOCKOUT RECESS DETAILS
NOT TO SCALE
(SECOND STAGE CONCRETE SHOWN)



OFFSET GREATER THAN 8"

OFFSET GREATER THAN 8"
RESTRICTED MEMBER THICKNESS

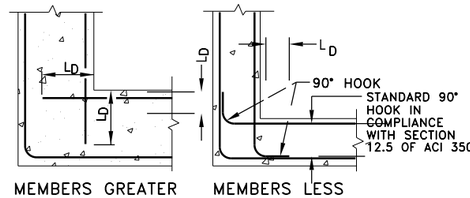
TYPICAL OFFSET DETAILS
NOT TO SCALE



CORNER BARS

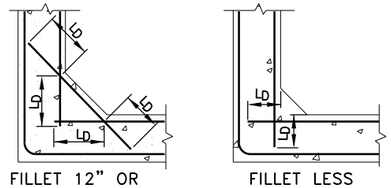
MEMBER THICKNESS	EA CORNER BOTH FACES
8" OR LESS	1-#5
9" - 12"	2-#6
13" - 18"	2-#8

TYPICAL SINGLE LAYER REINFORCEMENT AT CORNERS



MEMBERS GREATER THAN L_D IN THICKNESS

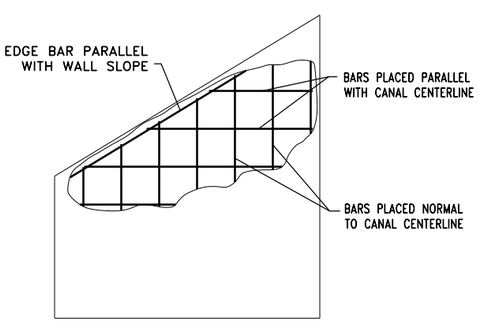
MEMBERS LESS THAN L_D IN THICKNESS



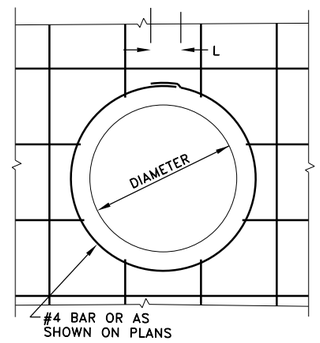
FILLET 12" OR GREATER

FILLET LESS THAN 12"

TYPICAL CORNER DETAILS
NOT TO SCALE



TYPICAL REINFORCEMENT DETAILS FOR TAPERED WALLS AND FLOORS
(UNLESS OTHERWISE SHOWN)



REINFORCEMENT AT CIRCULAR OPENINGS

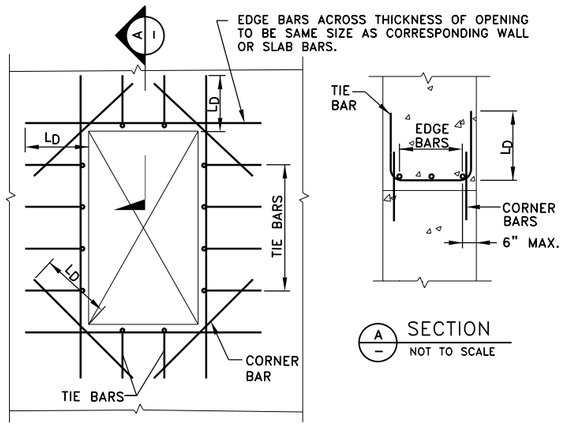


TABLE FOR REINFORCEMENT AROUND OPENINGS

MEMBER THICKNESS	TIE BARS	EDGE BARS	CORNER BARS
LESS THAN 10"	NONE	1-CTR.	1-#4 CTR.
10" THRU 1'-6"	NONE	2-(1-EF)	2-#4 (1-EF)
1'-7" THRU 3'-0"	#4@1'-0"	3 EQ. SPC.	2-#6 (1-EF)
OVER 3'-0"	#6@1'-0"	SPC.@1'-0"	2-#8 (1-EF)

OMIT EDGE AND TIE BARS ALONG SIDE OF OPENINGS WHERE DIMENSION IS LESS THAN 1'-6".
OMIT CORNER BARS AT SIDES OF OPENINGS ADJACENT TO FLOORS, WALLS, OR BEAMS, CORNER BARS REQUIRED IF EITHER DIMENSION OF OPENING IS GREATER THAN 1'-6". USE CORNER BASIN FACE OF RECESSES DEEPER THAN 4" IF EITHER DIMENSION OF RECESS IS GREATER THAN 1'-6".
REINFORCEMENT AROUND CIRCULAR OPENINGS SIMILAR UNLESS SHOWN DIFFERENTLY ON THE PROJECT PLANS.

ADDITIONAL REINFORCEMENT AROUND OPENINGS

By	Description	Rev	Date

Job No. 647979
Designed MFM
Drawn JD
Checked JZ
Reviewed JZ
Approved JZ
Reg. No. 25118
Plot Date 12-18-14

60% SUBMITTAL NOT FOR CONSTRUCTION

PREPARED BY:
PARSONS
225 SOUTH MILL AVENUE
SUITE #220
TEMPE, ARIZONA 85281
(602)852-9195
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GILA RIVER INDIAN COMMUNITY

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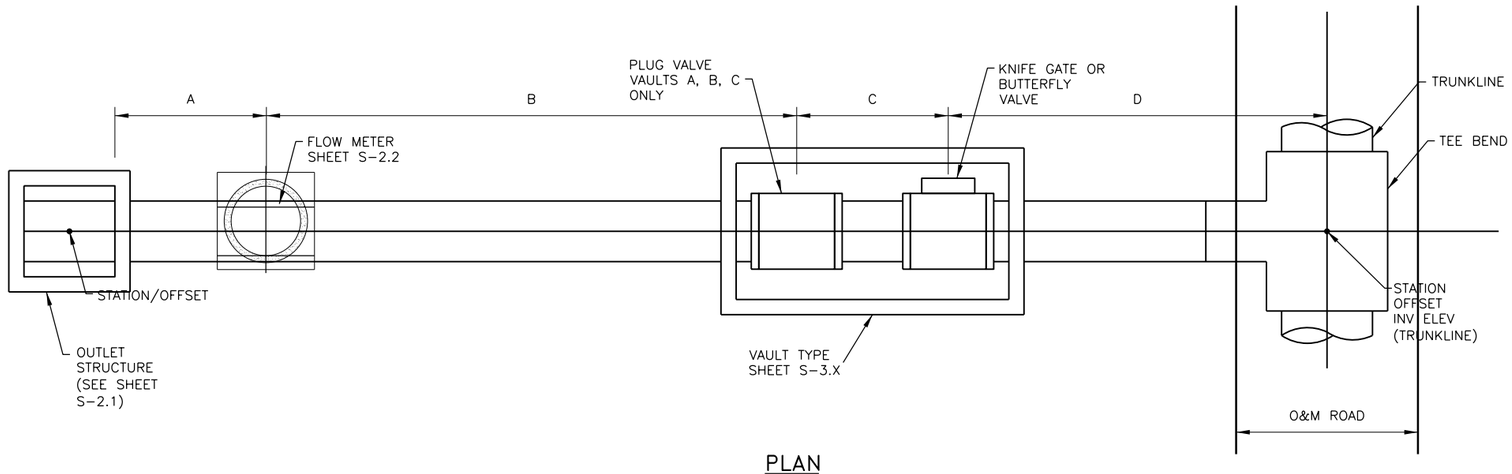
REACHES WS-1E AND WS-1F

GENERAL & MISCELLANEOUS STRUCTURAL DETAILS

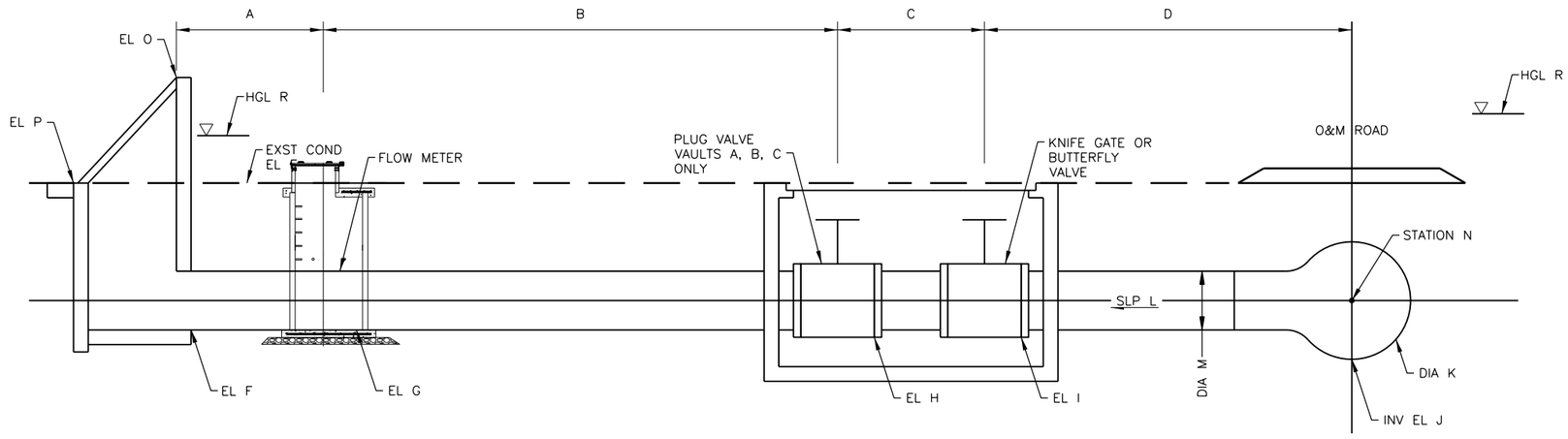
DRAWING NAME
S-1.0



PLAN

NOTES:

1. PLAN AND PROFILE SHOWN ON THIS SHEET ARE SCHEMATIC ONLY.
2. SEE SHTS 3.0 THRU 3.5 FOR VAULT DETAILS.
3. SEE SHT 3.6 VAULT TABLE FOR LOCATION DATA.



PROFILE

By	Description	Date	Rev

Job No. 647979
Designed MFM
Drawn JD
Checked JZ
Reviewed JZ
Approved JZ
Reg. No. 25118
Plot Date 12-18-14

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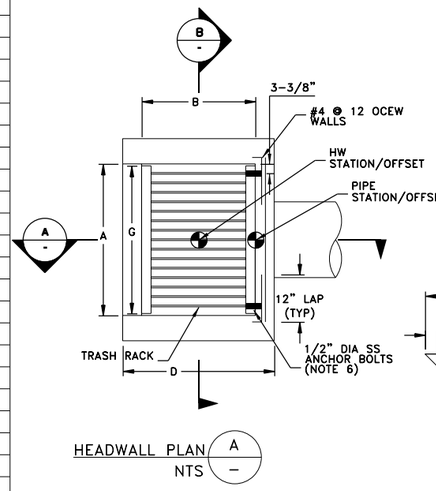
REACHES WS-1E AND WS-1F

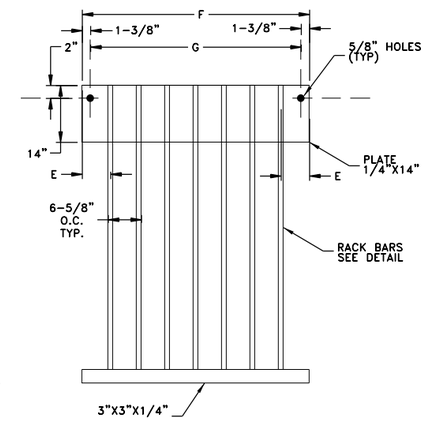
TURNOUT OUTLET DETAILS

DRAWING NAME
S-2.0

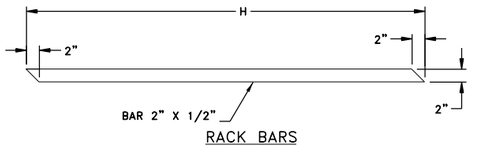
ID	ALG	HW STATION	HW OFFSET	PIPE STATION	PIPE OFFSET	E1	E2	A	B	C	D	E	F	G	H	I	No. BARS
						(ft)	(ft)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	(in)	
TOHW-MC1-1	MC-1	309+83.47	52.74' LT	309+83.47	51' LT	1045.62	1036.66	54	42	42.00	54	2.81	52	51.25	41.6	10	7
TOHW-MC1-2	MC-1	315+78.50	52.75' LT	315+78.50	51' LT	1051.06	1036.95	60	42	47.20	54	2.50	58	57.25	41.6	15.2	8
TOHW-MC1-3	MC-1	341+57.26	52.75' LT	341+57.26	51' LT	1046.54	1039.65	60	42	39.90	54	2.50	58	57.25	41.6	7.9	8
TOHW-MC2-1	WS-1F	179+31.24	162.35' RT	179+31.24	161' RT	1021.67	1012.83	42	42	41.90	54	3.44	40	39.25	41.6	9.9	5
TOHW-MC2-2	WS-1F	196+71.28	41.66' RT	196+71.28	40' RT	1018.62	1010.93	54	42	40.70	54	2.81	52	51.25	41.6	8.7	7
TOHW-MC2-3	WS-1F	206+41.27	41.73' RT	206+41.27	40' RT	1018.52	1009.96	54	42	41.60	54	2.81	52	51.25	41.6	9.6	7
TOHW-MC2-4	WS-1F	219+41.27	41.75' RT	219+41.27	40' RT	1014.60	1008.68	54	42	39.00	54	2.81	52	51.25	41.6	7	7
TOHW-MC2-5	WS-1F	233+66.39	41.68' LT	233+66.39	40' LT	1006.30	1000.85	42	42	38.50	54	3.44	40	39.25	41.6	6.5	5
TOHW-MC21N-1	MC-2-1N	537+50.00	41.75' LT	537+50.00	40' LT	1002.82	996.87	42	42	39.00	54	3.44	40	39.25	41.6	7	5
TOHW-MC21S-2	MC-2-1S	400+49.98	41.77' RT	400+49.98	40' RT	1001.53	998.66	42	42	35.90	54	3.44	40	39.25	41.6	3.9	5
TOHW-MC21S-3	MC-2-1N	500+06.75	116.83' RT	500+06.75	115' RT	1003.77	998.49	42	42	38.30	54	3.44	40	39.25	41.6	6.3	5
TOHW-MC22N-1	MC-2-2N	825+80.17	105.96' RT	825+80.17	104' RT	1014.10	1009.40	54	42	37.80	54	2.81	52	51.25	41.6	5.8	7
TOHW-MC22N-2	MC-2-2N	_	_	_	_	1013.33	1009.40	54	42	37.00	54	2.81	52	51.25	41.6	5	7
TOHW-MC22N-3	MC-2-2N	824+85.00	41.75' LT	824+85.00	40' LT	1015.06	1009.15	54	42	39.00	54	2.81	52	51.25	41.6	7	7
TOHW-MC3-1	MC-3	604+00.00	41.75' LT	604+00.00	40' LT	1014.51	1008.71	42	42	38.80	54	3.44	40	39.25	41.6	6.8	5
TOHW-MC3-2	MC-3	656+97.62	307.28' LT	656+97.62	306' LT	1008.84	1004.60	42	42	37.30	54	3.44	40	39.25	41.6	5.3	5
TOHW-MC3-3	MC-3	655+66.23	41.76' RT	655+66.23	40' RT	1011.57	1004.75	42	42	39.90	54	3.44	40	39.25	41.6	7.9	5
TOHW-MC3-4	MC-3	656+72.20	41.75' RT	656+72.20	40' RT	1008.27	1002.66	42	42	38.70	54	3.44	40	39.25	41.6	6.7	5
TOHW-MC3-5	MC-3	674+35.90	41.75' LT	674+35.90	40' LT	999.96	995.27	42	42	37.70	54	3.44	40	39.25	41.6	5.7	5
TOHW-MC3-6	MC-3	690+14.92	46.95' LT	690+14.92	45' LT	991.98	987.16	42	42	37.90	54	3.44	40	39.25	41.6	5.9	5
TOHW-MC3-7	MC-3	690+20.14	41.75' LT	690+20.14	40' LT	992.24	987.15	42	42	38.10	54	3.44	40	39.25	41.6	6.1	5
TOHW-MC31N-1	MC-3-1N	706+99.99	43.51' LT	706+99.99	42' LT	1005.95	1000.39	42	42	38.60	54	3.44	40	39.25	41.6	6.6	5
TOHW-MC31N-2	MC-3-1N	715+00.03	41.75' LT	715+00.03	40' LT	1005.19	1000.43	42	42	37.80	54	3.44	40	39.25	41.6	5.8	5
TOHW-MC32N-1	MC-3-2N	913+24.40	41.75' RT	913+24.40	40' RT	1004.93	1002.42	42	42	35.60	54	3.44	40	39.25	41.6	3.6	5
TOHW-WS1F-1	WS-1F	127+91.28	41.75' LT	127+91.28	40' LT	1021.87	1018.06	42	42	36.90	54	3.44	40	39.25	41.6	4.9	5
TOHW-WS1F-2	WS-1F	140+11.27	41.66' LT	140+11.27	40' LT	1021.09	1016.85	42	42	37.30	54	3.44	40	39.25	41.6	5.3	5
TOHW-WS1F-3	WS-1F	146+41.27	41.70' LT	146+41.27	40' LT	1022.15	1016.21	42	42	39.00	54	3.44	40	39.25	41.6	7	5
TOHW-WSIF-4	WS-1F	159+41.27	41.75' LT	159+41.27	40' LT	1021.55	1014.91	42	42	39.70	54	3.44	40	39.25	41.6	7.7	5
TOHW-WSIF-5	WS-1F	165+86.27	41.75' LT	165+86.27	40' LT	1022.62	1014.27	42	42	41.40	54	3.44	40	39.25	41.6	9.4	5
TOHW-WSIF-6	WS-1F	175+91.30	41.21' LT	175+91.30	39' LT	1021.71	1013.27	42	42	41.50	54	3.44	40	39.25	41.6	9.5	5
TOHW-WS1E-2	WS-1E	1015+25.00	41.76' LT	1015+25.00	40' LT	1035.65	1029.40	42	42	39.30	54	3.44	40	39.25	41.6	7.3	5
TOHW-WS1E-3	WS-1E	1028+00.00	41.75' LT	1028+00.00	40' LT	1034.21	1027.87	42	42	39.40	54	3.44	40	39.25	41.6	7.4	5
TOHW-WS1E-4	WS-1E	1041+50.00	41.75' LT	1041+50.00	40' LT	1032.98	1026.52	42	42	39.50	54	3.44	40	39.25	41.6	7.5	5
TOHW-WS1E-5	WS-1E	1056+45.75	41.73' LT	1056+45.75	40' LT	1030.93	1024.35	42	42	39.60	54	3.44	40	39.25	41.6	7.6	5
TOHW-WS1E-6	WS-1E	1093+35.00	41.66' LT	1093+35.00	40' LT	1019.58	1013.41	42	42	39.20	54	3.44	40	39.25	41.6	7.2	5
TOHW-WS1E-7	WS-1E	1121+86.51	41.74' LT	1121+86.51	40' LT	1016.70	1010.61	42	42	39.10	54	3.44	40	39.25	41.6	7.1	5
TOHW-WS1E-8	WS-1E	1130+97.05	41.75' LT	1130+97.05	40' LT	1016.66	1009.72	42	42	40.00	54	3.44	40	39.25	41.6	8	5
TOHW-WS1E-9	WS-1E	1153+97.05	41.75' LT	1153+97.05	40' LT	1014.15	1007.43	42	42	39.80	54	3.44	40	39.25	41.6	7.8	5
TOHW-WS1E-10	WS-1E	1171+97.05	41.75' LT	1171+97.05	40' LT	1013.29	1005.63	42	42	40.70	54	3.44	40	39.25	41.6	8.7	5
TOHW-WS1E-11	WS-1E	1194+19.09	41.72' LT	1194+19.09	40' LT	1012.19	1003.40	42	42	41.80	54	3.44	40	39.25	41.6	9.8	5
TOHW-WS1E-12	WS-1E	1206+45.74	41.75' LT	1206+45.74	40' LT	1009.66	1001.68	42	42	41.00	54	3.44	40	39.25	41.6	9	5
TOHW-WS1E-13	WS-1E	1219+51.45	41.75' LT	1219+51.45	40' LT	1004.35	997.98	42	42	39.40	54	3.44	40	39.25	41.6	7.4	5
HW-MC1-1	MC-1	346+31.49	0' RT	346+29.74	0' RT	1044.78	1039.64	54	42	38.20	54	2.81	52	51.25	41.6	6.2	7
HW-MC21N-1	MC-2-1N	553+21.81	0' LT	553+20.06	0' LT	996.40	991.03	54	42	38.40	54	2.81	52	51.25	41.6	6.4	7
HW-MC21S-1	MC-2-1S	455+28.55	0' RT	455+26.80	0' RT	1000.67	995.50	54	42	38.20	54	2.81	52	51.25	41.6	6.2	7
HW-MC22N-1	MC-2-2N	840+51.25	0' RT	840+49.50	0' RT	1013.20	1005.03	54	42	41.20	54	2.81	52	51.25	41.6	9.2	7
HW-MC31N-1	MC-3-1N	730+58.05	0' RT	730+56.30	0' RT	1009.67	1004.81	54	42	37.90	54	2.81	52	51.25	41.6	5.9	7
HW-MC32N-1	MC-3-2N	914+76.16	0' RT	914+74.41	0' RT	1007.49	1002.64	42	42	37.90	54	3.44	40	39.25	41.6	5.9	5
HW-MC33N-1	MC-3N	16+56.72	0' RT	16+54.97	0' RT	1000.55	998.33	54	42	35.30	54	2.81	52	51.25	41.6	3.3	7
HW-WS1E-22	WS-1E	1259+70.46	0' LT	1259+68.71	0' LT	982.00	975.85	66	42	39.20	54	2.19	64	63.25	41.6	7.2	9



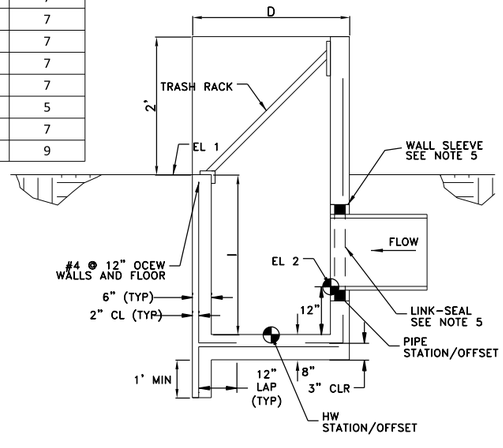
HEADWALL PLAN (A) NTS



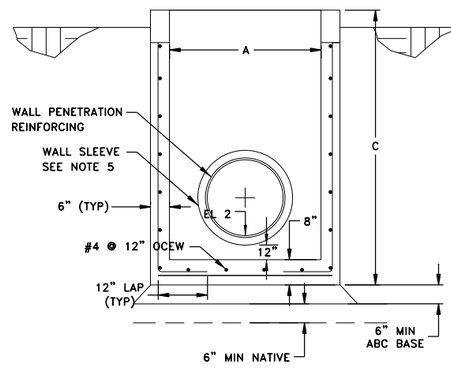
TRASH RACK



RACK BARS



SECTION (A) NTS



SECTION (B) NTS

NOTES:

1. SEE SITE PLAN DRAWING(S) FOR ORIENTATION OF HEADWALLS.
2. ALL STRUCTURAL CONCRETE SHALL MEET GENERAL CONCRETE NOTES (CLASS C, 28 DAY fc=4000psi) AND MINIMUM REQUIREMENTS FOR STEEL REINFORCEMENT & DETAILS.
3. CONCRETE SHALL BE PLACED WITH NO COLD JOINTS. ALL CONCRETE SHALL BEE VIBRATED DURING PLACEMENT
4. MINIMUM COMPACTION FOR ABC BASE AND NATIVE SUB-BASE SHALL BE 95% OF MAX DENSITY PER ASTM D698 AT +2% TO -2% OF OPTIMUM MOISTURE CONTENT.
5. WALL SLEEVE SHALL BE MODEL WS STEEL SLEEVE COMPLETE WITH S-316 LINK-SEAL MODULAR SEAL BY PIPELINE SEAL AND INSULATOR, INC., OF HOUSTON, TX, (OR APPROVED EQUAL).
6. 1/2" DIAMETER SS ANCHOR BOLTS WITH SIMPSON STRONG SET ADHESIVE (ICBO ER-5279) OR EQUAL.

By	Description	Date	Rev

Job No. 647979
Designed MFM
Drawn JD
Checked JZ
Reviewed JZ
Approved JZ
Reg. No. 25118
Plot Date 12-18-14

60% SUBMITTAL NOT FOR CONSTRUCTION

PREPARED BY:
PARSONS
222 SOUTH MILL AVENUE
SUITE #220
TEMPE, ARIZONA 85281
(602)852-9195
(602)952-9303 fax

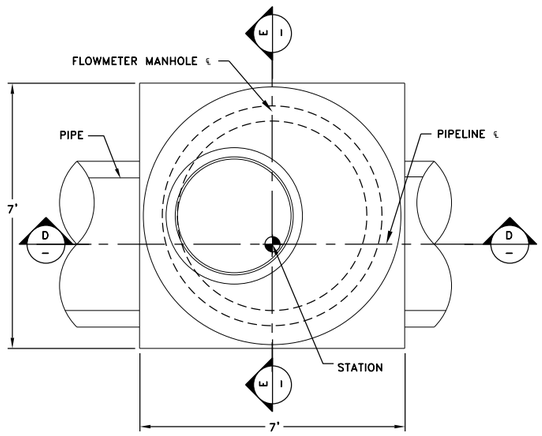
GILA RIVER INDIAN COMMUNITY ARIZONA 1939

PIMA MARICOPA IRRIGATION PROJECT
P.O. BOX C
192-A SOUTH ROUTE A STREET
SACATON, AZ 85147
(520)562-6700
(520)562-6791 FAX

REACHES WS-1E AND WS-1F

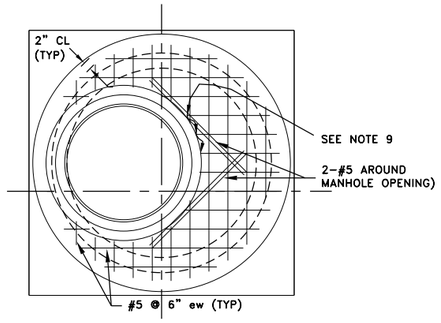
OUTLET HEADWALL DETAILS

DRAWING NAME
S-2.1



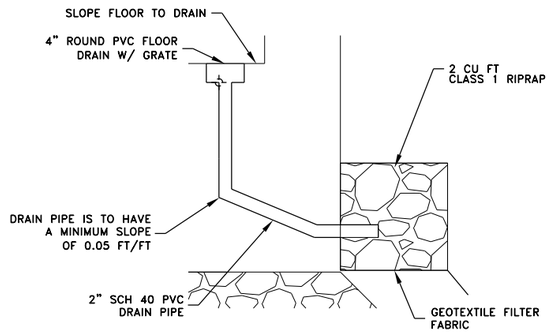
FLOWMETER MANHOLE TOP PLAN (A)

NTS



SLAB REINFORCING PLAN (C)

NTS

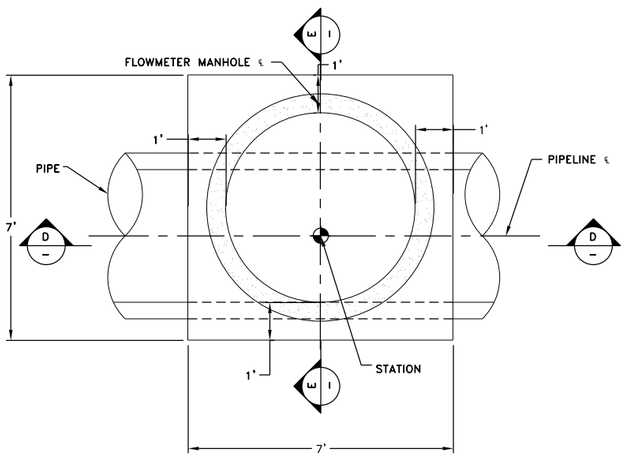


DRAIN PIPE DETAIL (1)

NTS

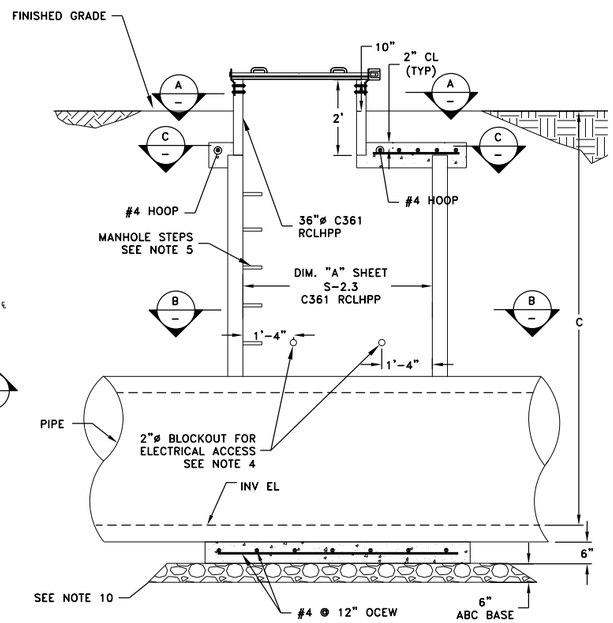
NOTES:

1. INSTALL A MCCROMETER MODEL 282L (2" SPI) ELECTROMAGNETIC FLOWMETER PER SPEC SEC 16724.
2. INSTALL FLOW METER PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE 2" THREADED PIPE TAP AND 2" BRASS GATE VALVE FOR FLOWMETER.
4. PROVIDE BLOCKOUT FOR ELECTRICAL CONDUIT INSTALLATION.
5. MANHOLES DEEPER THAN 56 INCHES SHALL HAVE STEPS. MANHOLE STEPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH AASHTO 199. IF PRECAST SECTIONS ARE USED STEPS SHALL BE INSTALLED AT THE TIME THAT THE SECTIONS ARE CAST. MANHOLE STEPS SHALL BEGIN 2 FT BELOW THE TOP OF THE MANHOLE AND SHALL BE INSTALLED EVERY 12 INCHES UNTIL APPROXIMATELY 2 FT ABOVE THE FLOWMETER MANHOLE FLOOR.
6. SPECIFIED MATERIAL STRENGTH:
   CONCRETE f'c=3000 PSI
   REINFORCING STEEL fy=60,000 PSI
7. CONCRETE SHALL BE PLACED WITH NO COLD JOINTS. ALL CONCRETE SHALL BE VIBRATED DURING PLACEMENT.
8. SEE PLAN AND PROFILE DRAWING FOR CORRECT ORIENTATION OF THE FLOWMETER MANHOLE.
9. FIELD CUT REBAR AT MANHOLE COVER.
10. 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.



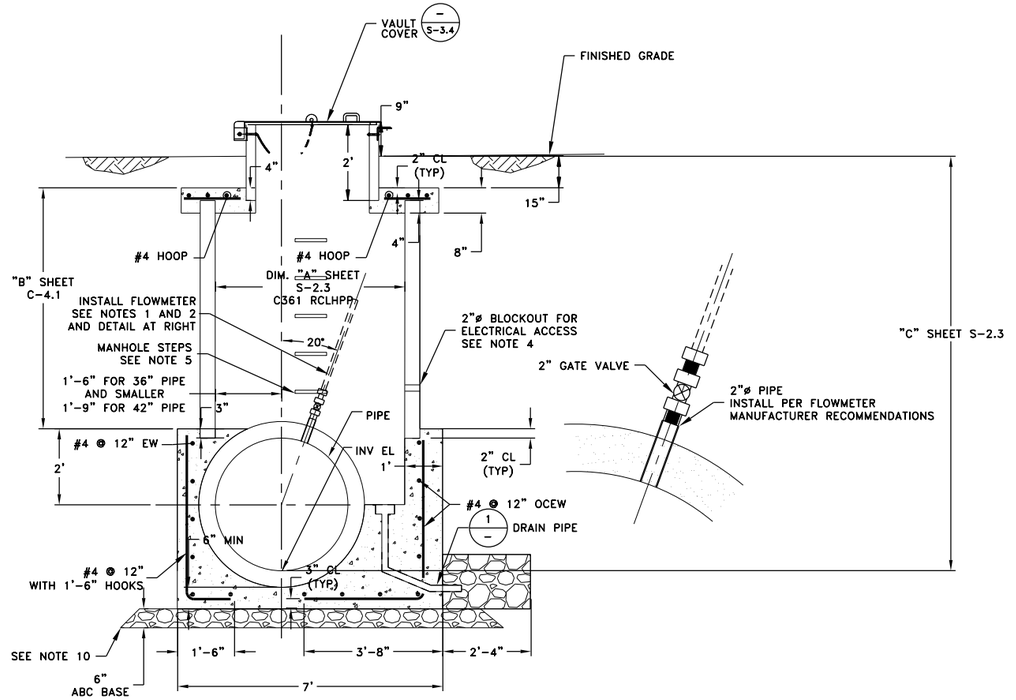
FLOWMETER MANHOLE BOTTOM PLAN (B)

NTS



SECTION (D)

NTS



SECTION (E)

NTS

				By
Rev	Date	Description		

Job No. 647979
Designed MFM
Drawn JD
Checked JZ
Reviewed JZ
Approved JZ
Reg. No. 25118
Plot Date 12-18-14

60% SUBMITTAL NOT FOR CONSTRUCTION

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(520)562-6791 FAX

REACHES WS-1E AND WS-1F

FLOW METER IN MANHOLE SHEET 1 OF 2

DRAWING NAME
S-2.2