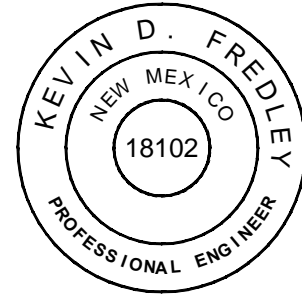


ALTO LAKES WATER DISTRIBUTION IMPROVEMENTS B

AUGUST, 2014

ALTO LAKES WATER & SANITATION DISTRICT BOARD MEMBERS

DAN KNORR	-	CHAIRMAN
DAVID WINANS	-	VICE-CHAIRMAN
GARY PARKER	-	SECRETARY
PHILIP BISHOP	-	TREASURER
ROBERT DECKER	-	MEMBER

Kevin D. Fredeley

 08/06/2014

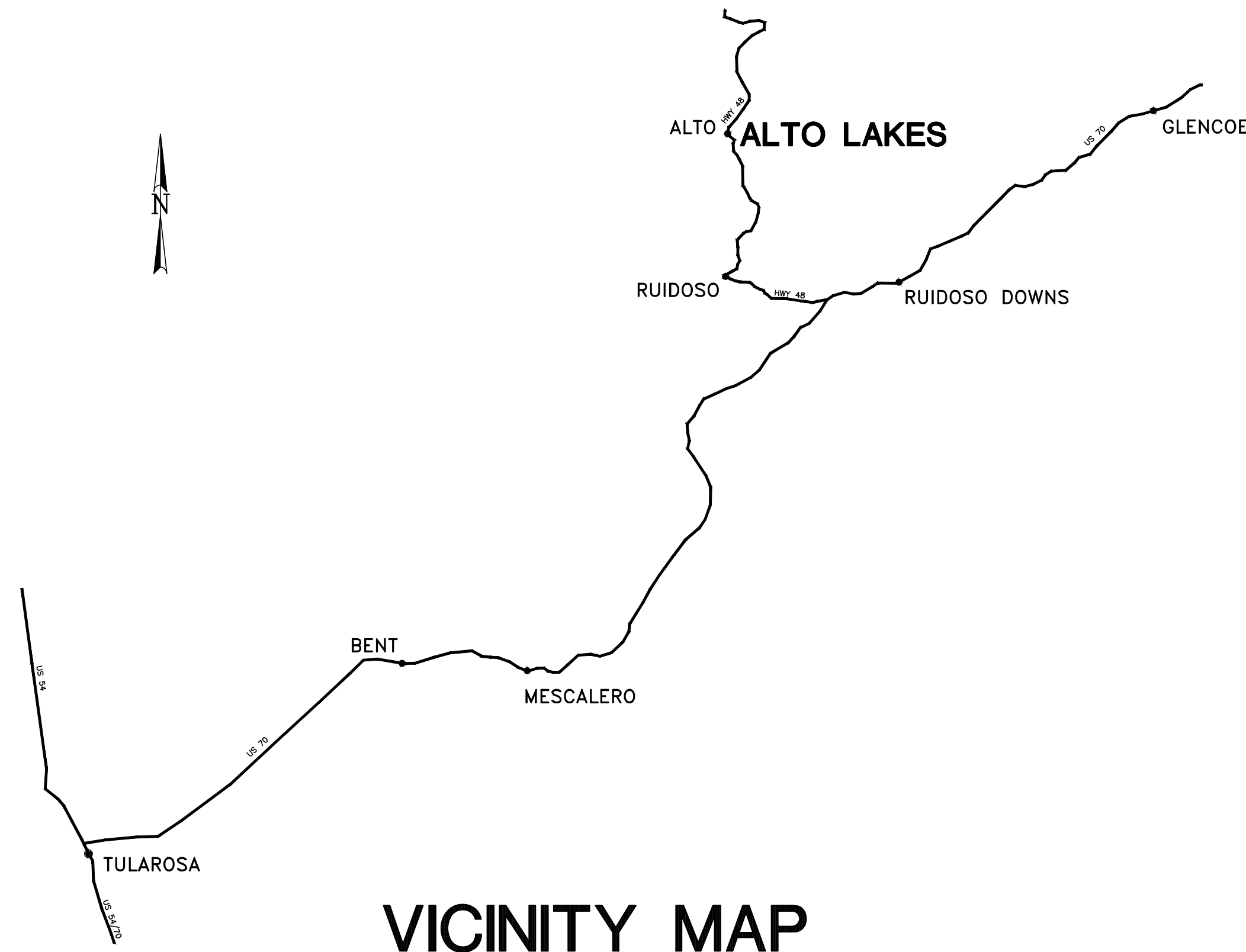
PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS AFTER PRESENTATION OF THE APPLICATION FOR PAYMENT TO THE OWNER WITH ENGINEER'S RECOMMENDATION, THE AMOUNT RECOMMENDED WILL BECOME DUE, AND WHEN DUE, WILL BE PAID BY THE OWNER TO THE CONTRACTOR.

Alto Lakes Water &
Sanitation District 

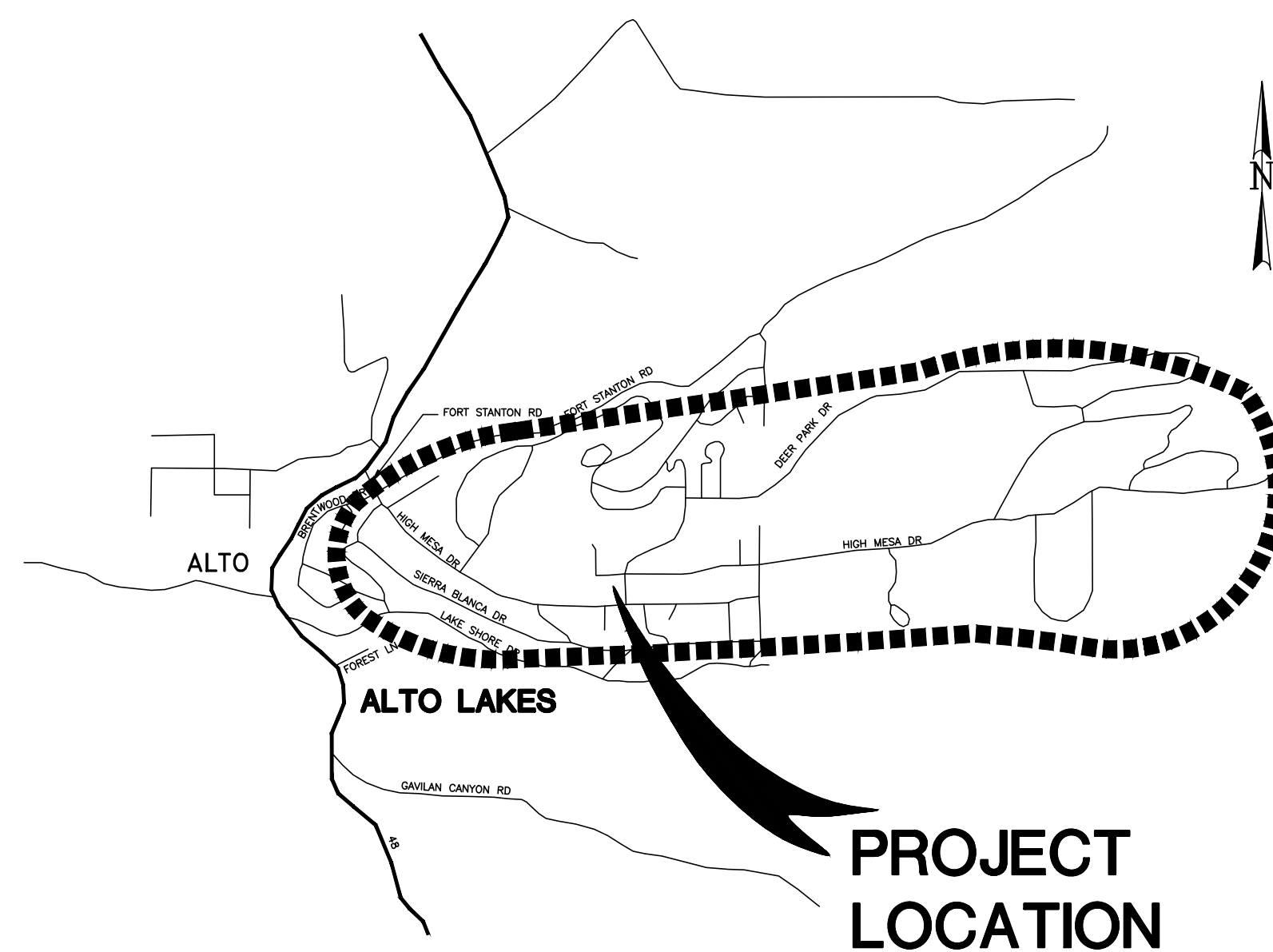


PARKHILL SMITH & COOPER

501 West San Antonio
El Paso, Texas 79901
915.533.6811



VICINITY MAP



LOCATION MAP

LEGEND

EXISTING

	VEGETATION		3815 CONTOURS
	PAVEMENT		EASEMENT
	STRUCTURES		ROW LINE
	MAIL BOXES		ROCK WALL
	TRAFFIC SIGNAL		GUARDRAIL
	POLE MOUNTED LIGHT		FENCE
	PEDESTAL MOUNTED LIGHT		OHE OVERHEAD ELECTRIC
	CITY MONUMENT		UGT UNDERGROUND TELEPHONE LINE
	SANITARY SEWER MANHOLE		UTE UNDERGROUND TRAFFIC ELEC
	ELECTRICAL MANHOLE		UGE UNDER GROUND ELECTRIC
	ELECTRICAL TRANSFORMER		E UNDER GROUND ELECTRIC
	TELEPHONE MANHOLE		UGC UNDERGROUND CABLE
	WATER VALVE VAULT		UGT & TV UNDERGROUND TELE. & TV CABLE
	WATER METER		com UNDERGROUND COMMUNICATION
	FIRE HYDRANT		G 2 GAS PIPELINE
			G 6 HP HIGH PRESSURE GAS PIPELINE
			W 12 WATER PIPELINE
			sas SANITARY SEWER
			W-O-W GATE VALVE
			SS SANITARY SEWER
			-SS-O-SS SANITARY SEWER MAN HOLE
			ENCASED PIPE
			BUTTERFLY VALVE
			CULVERT
			INLET BOX

PROPOSED

	CROSS		FIRE HYDRANT
	TEE		COMB AIR VALVE W/ MANHOLE (OR METER BOX, AS INDICATED)
	REDUCER		AIR RELEASE VALVE W/ METER BOX
	90° BEND		GATE VALVE W/ VALVE BOX
	45° BEND		WATER LINE
	PIPE PLUG		LIMITS OF EXCAVATION AND/OR PAVEMENT REPLACEMENT
	CUT AND PLUG EXISTING LINE		MARKER POST
	PERMANENT EASEMENT		CEMENT STABILIZED BACKFILL MATERIAL
	CONSTRUCTION EASEMENT		

GENERAL NOTES

- ALL EXISTING UTILITIES CURRENTLY IN SERVICE MUST REMAIN IN SERVICE THROUGHOUT CONSTRUCTION OF THE PROJECT EXCEPT AS NOTED IN THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES FROM DAMAGE AS RESULT OF CONSTRUCTION ACTIVITIES.
- ALTHOUGH ALL EFFORTS HAVE BEEN MADE TO INDICATE ALL MAJOR EXISTING UTILITIES ON PLANS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL SAID UTILITIES AS WELL AS SERVICE CONNECTIONS (WHETHER OR NOT INDICATED ON PLANS) PRIOR TO AND DURING CONSTRUCTION. WATER SERVICE CONNECTIONS ARE SHOWN ON THE PLANS.
- PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO VERIFY LOCATION OF EXISTING UTILITIES & CONTRACTOR SHALL CALL THE RESPECTIVE "1-CALL" NUMBER FOR SUCH UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH GAS, OIL, ELECTRIC, TELEPHONE, FIBER OPTIC, CABLE TV, SEWER AND WATER UTILITIES OWNERS ETC. FOR ANY RELOCATION AND/OR PROTECTION OF EXISTING LINES OR CABLES AS REQUIRED, DUE TO CONSTRUCTION ACTIVITIES.
- UNLESS OTHERWISE INDICATED, ALL EXISTING ROADWAYS, SIDEWALKS, & SURFACE GRADING AFFECTED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ORIGINAL CONDITION AND ELEVATION BY CONTRACTOR.
- CONTRACTOR SHALL KEEP ALL DEBRIS & SPOIL OUT OF DRAINS, CULVERTS, AND DROP INLETS AND ENSURE THAT THEY DO NOT BECOME CLOGGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
- CONTROL BASED ON THE STATE PLANE COORDINATES AND HAVE BEEN CONVERTED TO GROUND DISTANCES AND AZIMUTHS.
- ALL PIPE SHALL HAVE A MINIMUM OF 3 FEET OF COVER UNLESS OTHERWISE INDICATED.
- CONTRACTOR TO NOTIFY RESIDENTS AT LEAST 72 HOURS PRIOR TO CONSTRUCTION IN THE AREA.
- CONTRACTOR TO POST TRAFFIC MONITORS/FLAGPERSON AS NEEDED WHILE WORKING IN ANY STREET.
- CONTRACTOR TO MAINTAIN ACCESS FOR RESIDENTS DURING NON WORKING HOURS, STANDARD WORKING HOURS TO BE 7AM-5PM
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.
- CONTRACTOR SHALL NOTIFY POLICE DEPARTMENT, SHERIFF & FIRE DEPARTMENT 48 HOURS PRIOR TO ANY CONSTRUCTION.
- CONTRACTOR TO PASS PRESSURE TEST AND BAC-T TEST PRIOR TO ANY TIE-INS TO EXISTING LINES OR SERVICE CONNECTIONS IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL SPOIL TO BE REMOVED FROM ROADWAY BY THE END OF THE DAYS ACTIVITY.
- CONTRACTOR TO PROTECT ALL EXISTING LANDSCAPING. ANY DAMAGED LANDSCAPING TO BE REPLACED BY CONTRACTOR AT CONTRACTORS EXPENSE
- GAS SERVICE LINES NOT SHOWN. CONTRACTOR TO LOCATE ALL SERVICE LINES PRIOR TO EXCAVATION.
- SHOULD FIRE HYDRANTS NEED TO BE RELOCATED DUE TO EXISTING UTILITIES OR OTHER ITEMS, CONTRACTOR TO NOTIFY FIELD ENGINEER PRIOR TO MOVING.
- RESTORE ALL SERVICE CONNECTIONS TO EXISTING GRADE AND CONDITION.
- CONTRACTOR TO VERIFY SIZES OF EXISTING WATERLINES PRIOR TO ORDERING MATERIALS FOR ALL TIE-IN WORK.
- ALL 2-SACK COST TO BE SUBSIDIARY TO PIPE INSTALLATION. CONTRACTOR CAN MIX 2-SACK ON SITE. MIX WILL USE CLEAN SAND AND BE FLOWABLE. SHOULD THE CONTRACTOR CHOOSE TO USE FLOWABLE FILL IN LIEU OF HMA FOR THE 4-INCH CAP, THE FLOWABLE FILL WILL NOT BE MIXED ON-SITE AND MUST BE SUPPLIED BY A SUPPLIER.
- CHANGE IN DIRECTION OF PIPE TO BE ACCOMPLISHED BY USING STANDARD FITTINGS.
- CONTRACTOR TO SUBMIT TRAFFIC CONTROL PLAN TO LINCOLN COUNTY 3 WEEKS PRIOR TO CONSTRUCTION FOR REVIEW AND APPROVAL. SEE SPECIFICATION 01010-3.5
- CONTRACTOR TO PROVIDE AN EROSION CONTROL (BEST MANAGEMENT PRACTICES) PLAN IN ACCORDANCE WITH STATE AND FEDERAL RULES AND REGULATIONS.
- CONTRACTOR TO COORDINATE LOCATION OF PROPOSED CUT-IN VALVES AND VALVE REPLACEMENT WITH OWNER DURING CONSTRUCTION. LOCATIONS NOT CURRENTLY SHOWN ON PLANS.
- CONTRACTOR TO COORDINATE EXACT LOCATION OF PROPOSED STUBOUTS OF 3-INCH CONDUIT WITH OTERO COUNTY ELECTRIC. DRAWINGS ONLY SHOW GENERAL LOCATIONS.

SHEET INDEX

SHEET No.	DESCRIPTION
G-001	COVER
G-002	GENERAL NOTES, LEGEND, CONTACT LIST & SHEET INDEX
G-003	SHEET MAP
CP-101	DEER VALLEY DR. PLAN AND PROFILE STA. 1+00 TO 8+00
CP-102	DEER VALLEY DR. PLAN AND PROFILE STA. 8+00 TO 15+00
CP-103	DEER VALLEY DR. PLAN AND PROFILE STA. 15+00 TO 22+00
CP-201	SADDLEBACK RD. FIRE HYDRANT LOCATIONS
CP-202	ANTLER DR. FIRE HYDRANT LOCATIONS
CP-203	ANTLER DR. FIRE HYDRANT LOCATIONS
CP-204	DEER VALLEY DR. FIRE HYDRANT LOCATIONS
CP-205	EAST HIGH MESA FIRE HYDRANT LOCATIONS
CP-206	EAST HIGH MESA FIRE HYDRANT LOCATIONS
CP-207	WEST HIGH MESA FIRE HYDRANT LOCATIONS
CP-300	DEER VALLEY DR. EXISTING IRRIGATION PUMP STATION RELOCATION
CP-301	DEER VALLEY DR. IRRIGATION PUMP STATION PIPING AND FOUNDATION DETAILS
CP-302	DEER VALLEY DR. AND OSO LOOP INTERSECTION DETAILS
CP-303	DEER VALLEY DR. AND ANTLER DR. INTERSECTION DETAILS
C-501	FIRE HYDRANT, SERVICE CONNECTIONS AND CUT-IN GATE VALVE DETAILS
C-502	VALVES, METER BOX, AND C.A.V. DETAILS
C-503	PIPELINE TRENCHING, BACKFILL, BEDDING AND PAVEMENT DETAILS
C-504	PRESSURE REDUCING STATION DETAILS
C-505	DRIVEWAY, PAVEMENT REPLACEMENT CUT-AND PLUG DETAILS.
C-601	EROSION CONTROL (BEST MANAGEMENT PRACTICES)
E-101	DEER VALLEY DR. EXISTING IRRIGATION PUMP STATION ELECTRICAL RELOCATION

LIST OF UTILITIES AND AGENCIES

<p>OWNER: ALTO LAKES WATER & SANITATION DISTRICT 214 LAKESHORE ALTO, NM 88312 MR. DAVID EDINGTON (575) 336-4333</p> <p>ELECTRIC: OTERO COUNTY ELECTRIC 1100 MECHEM DR RUIDOSO, NM 88345 MR. MARIO ROMERO (575) 336-4550</p> <p>UTILITY LOCATIONS 1-800-321-2537 WWW.NMONECALL.ORG</p> <p>WINDSTREAM: RUIDOSO, NM 88346 114 MESCALERO TRAIL CHRIS MCGUIRE (575) 257-4436</p>	<p>ZIA NATURAL GAS: P.O. DRAWER 888 RUIDOSO DOWNS, NM 88346 MIKE DVORAK (575) 378-4277</p> <p>LINCOLN COUNTY COUNTY ROAD SUPERINTENDENT CARL PALMER (575)808-1390</p> <p>ENGINEER: PARKHILL, SMITH & COOPER, INC. 501 WEST SAN ANTONIO EL PASO, TX 79901 MR. KEVIN FREDLEY, P.E. (915) 533-6811</p> <p>BAJA CABLE: 510 24TH ST. ALAMOGORDO, NM 88310 JOHNNY RODRIGUEZ (575) 442-0259</p>
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ABBREVIATIONS

APPR.	APPROVED	L.R.	LONG RADIUS BEND
PROP.	PROPOSED	PRV	PRESSURE REDUCING VALVE
EXIST.	EXISTING	GV	GATE VALVE
MH	MANHOLE	S/V	SERVICE CONNECTION
DIA.	DIAMETER	CTS	COPPER TUBING SIZE
LF	LINEAR FEET	S.S.	SANITARY SEWER
STL	STEEL	2FH	EXISTING 2" FIRE HYDRANT.
AC	ASBESTOS CEMENT	TBA	TO BE ABANDONED
DIP	DUCTILE IRON PIPE	TRS	TO REMAIN IN SERVICE
PP	POWER POLE		
F	FLANGE		
MP	MARKER POST		
BOP	BEGINNING OF PIPE		
EOP	END OF PIPE		
VCP	VITRIFIED CLAY PIPE		
CONC.	CONCRETE		
RCP	REINFORCED CONCRETE PIPE		
CMP	CORRUGATED METAL PIPE		
ROW	RIGHT OF WAY		
W	WATERLINE		
S.R.	SHORT RADIUS BEND		

ALTO LAKES WATER DISTRIBUTION IMPROVEMENTS B

214 LAKESHORE
ALTO, NM 88312
(575) 336-4333

PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS AFTER PRESENTATION OF THE APPLICATION FOR PAYMENT TO THE OWNER WITH ENGINEER'S RECOMMENDATION, THE AMOUNT RECOMMENDED WILL BECOME DUE, AND WHEN DUE, WILL BE PAID BY THE OWNER TO THE CONTRACTOR.

NO DATE DESCRIPTION
ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

GENERAL NOTES, LEGEND, CONTACT LIST & SHEET INDEX

G-002



PARKHILL SMITH & COOPER

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11/14/2013

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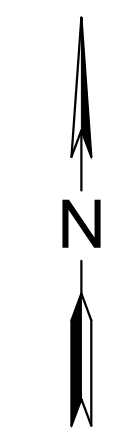
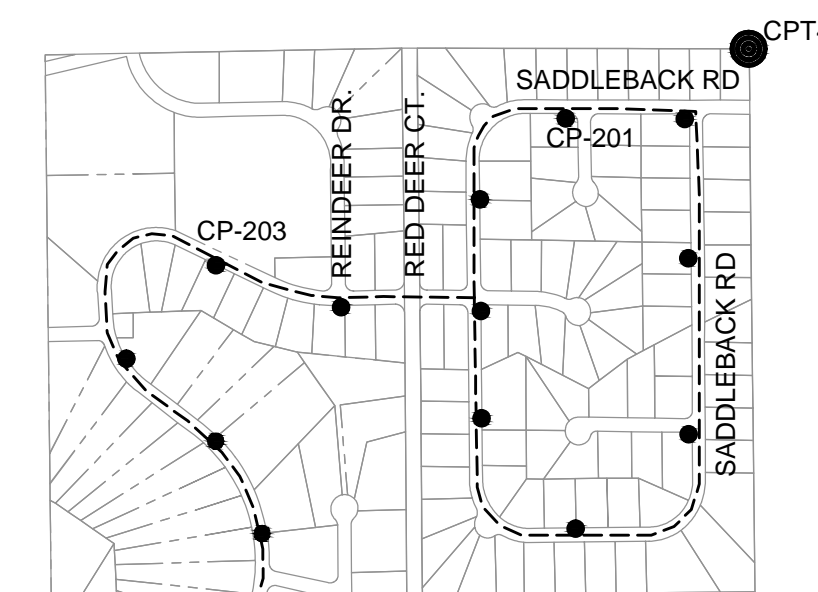
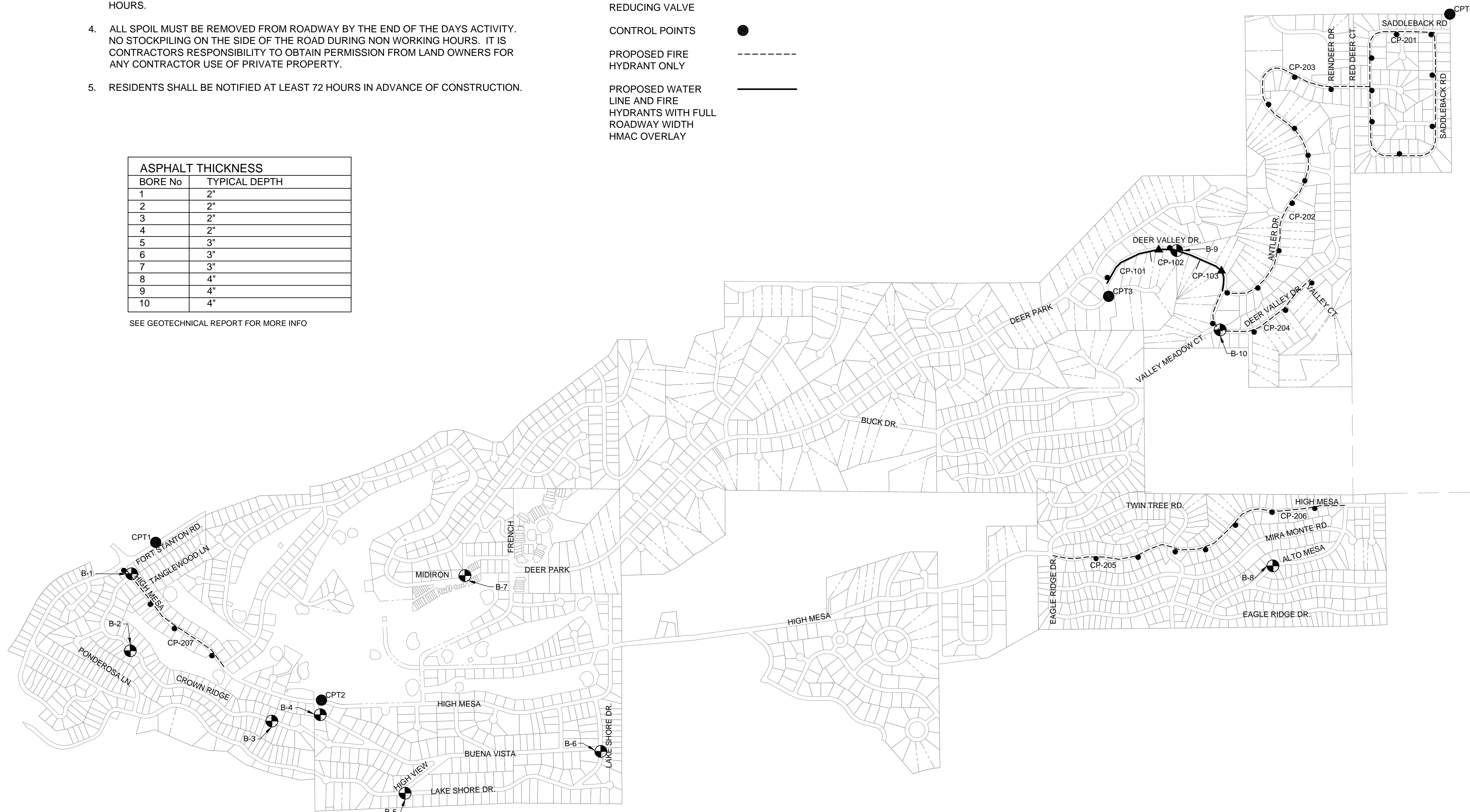
- NO TWO CONSECUTIVE INTERSECTIONS CAN BE CLOSED AT THE SAME TIME.
- ALL TRENCH SHALL BE BACKFILLED TO EXISTING GRADE AT THE END OF THE DAY ACTIVITIES.
- ACCESS MUST BE MAINTAINED TO RESIDENTIAL DRIVE WAYS DURING NON WORKING HOURS.
- ALL SPOIL MUST BE REMOVED FROM ROADWAY BY THE END OF THE DAYS ACTIVITY. NO STOCKPILING ON THE SIDE OF THE ROAD DURING NON WORKING HOURS. IT IS CONTRACTORS RESPONSIBILITY TO OBTAIN PERMISSION FROM LAND OWNERS FOR ANY CONTRACTOR USE OF PRIVATE PROPERTY.
- RESIDENTS SHALL BE NOTIFIED AT LEAST 72 HOURS IN ADVANCE OF CONSTRUCTION.

LEGEND:

- BORE LOCATIONS
- PROPOSED FIRE HYDRANTS
- PROPOSED PRESSURE REDUCING VALVE
- CONTROL POINTS
- PROPOSED FIRE HYDRANT ONLY
- PROPOSED WATER LINE AND FIRE HYDRANTS WITH FULL ROADWAY WIDTH HMAC OVERLAY

ASPHALT THICKNESS	
BORE No	TYPICAL DEPTH
1	2"
2	2"
3	2"
4	2"
5	3"
6	3"
7	3"
8	4"
9	4"
10	4"

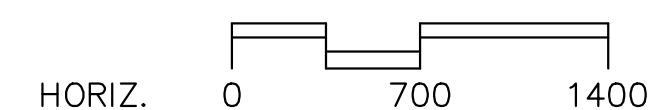
SEE GEOTECHNICAL REPORT FOR MORE INFO



ALTO LAKES WATER DISTRIBUTION IMPROVEMENTS B

214 LAKESHORE ALTO, NM 88312 (575) 336-4333

PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS AFTER PRESENTATION OF THE APPLICATION FOR PAYMENT TO THE OWNER WITH ENGINEER'S RECOMMENDATION, THE AMOUNT RECOMMENDED WILL BECOME DUE, AND WHEN DUE, WILL BE PAID BY THE OWNER TO THE CONTRACTOR.



SCALE IN FEET

NO	DATE	DESCRIPTION

ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

SHEET MAP

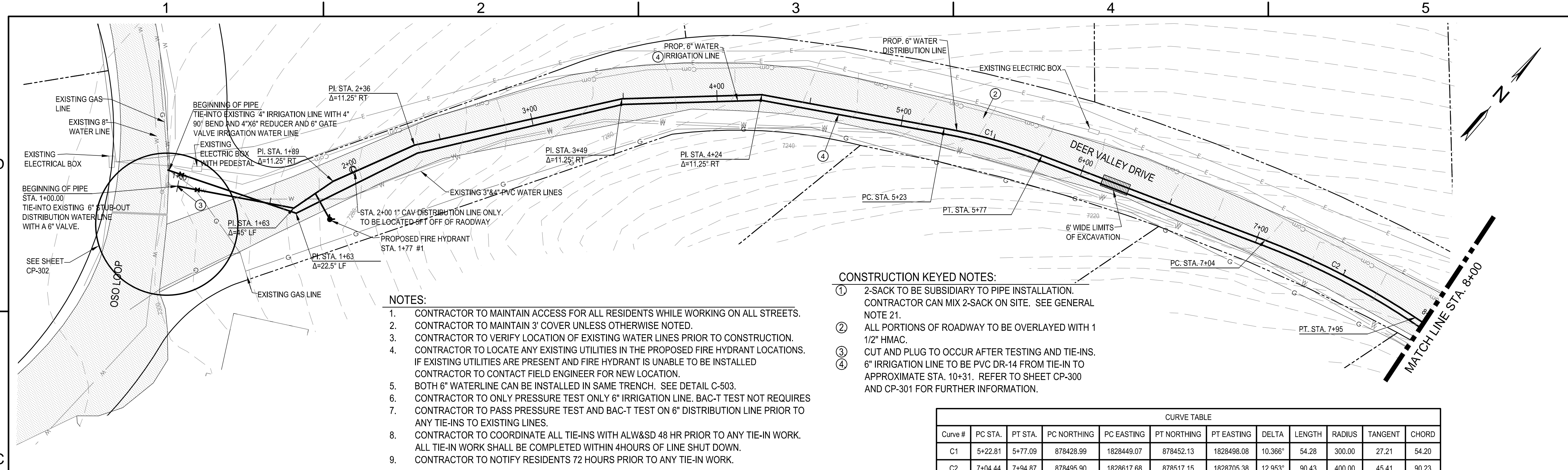
CPT1	875101.62	1816486.77	7419.85	ALUM. CAP LS 4971	FOUND- 730 FEET NE OF FORT STANTON-BRENTWOOD-HIGH MESA INTERSECTION, NORTH OF FORT STANTON ROAD.
CPT2	872960.59	1818294.07	7537.07	PLASTIC CAP LS 8487	SET- 70 FEET NE OF HIGH MESA BUENA VISTA INTERSECTION ON THE EDGE OF A GRAVEL AREA BESIDE THE GOLF COURSE.
CPT3	877963.38	1828204.15	7303.82	ALUM. CAP LS 4971	NE PROPERTY CORNER OF LOT 119, DEER PARK WOODS, UNIT 4. SOUTH CORNER OF OSO LOOP-DOE COURT INTERSECTION (AKA DEER PARK CIRCLE-DOE DRIVE) FOUND IN NE CORNER OF LOT 192, DEER PARK VALLEY, UNIT 8. OFF SADDLEBACK ROAD.
CPT4	881430.81	1832555.52	6941.31	ALUM. CAP LS 4971	

G-003

KEVIN D. FREDLEY
NEW MEXICO
18102
PROFESSIONAL ENGINEER
08/06/2014

PARKHILL SMITH & COOPER

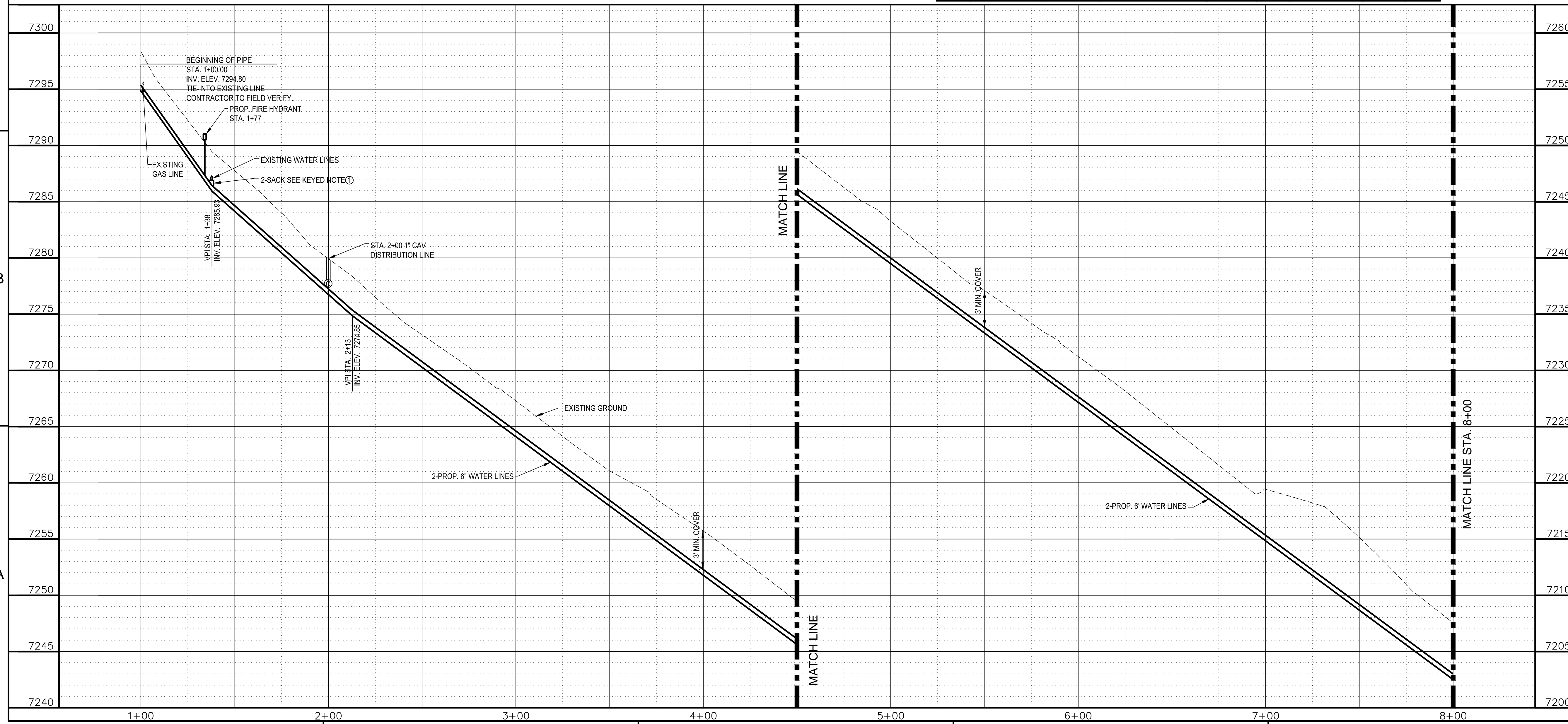
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 1/22/2014



- NOTES:**
- CONTRACTOR TO MAINTAIN ACCESS FOR ALL RESIDENTS WHILE WORKING ON ALL STREETS.
 - CONTRACTOR TO MAINTAIN 3" COVER UNLESS OTHERWISE NOTED.
 - CONTRACTOR TO VERIFY LOCATION OF EXISTING WATER LINES PRIOR TO CONSTRUCTION.
 - CONTRACTOR TO LOCATE ANY EXISTING UTILITIES IN THE PROPOSED FIRE HYDRANT LOCATIONS. IF EXISTING UTILITIES ARE PRESENT AND FIRE HYDRANT IS UNABLE TO BE INSTALLED CONTRACTOR TO CONTACT FIELD ENGINEER FOR NEW LOCATION.
 - BOTH 6" WATERLINE CAN BE INSTALLED IN SAME TRENCH. SEE DETAIL C-503.
 - CONTRACTOR TO ONLY PRESSURE TEST ONLY 6" IRRIGATION LINE. BAC-T TEST NOT REQUIRES
 - CONTRACTOR TO PASS PRESSURE TEST AND BAC-T TEST ON 6" DISTRIBUTION LINE PRIOR TO ANY TIE-INS TO EXISTING LINES.
 - CONTRACTOR TO COORDINATE ALL TIE-INS WITH ALW&SD 48 HR PRIOR TO ANY TIE-IN WORK. ALL TIE-IN WORK SHALL BE COMPLETED WITHIN 4HOURS OF LINE SHUT DOWN.
 - CONTRACTOR TO NOTIFY RESIDENTS 72 HOURS PRIOR TO ANY TIE-IN WORK.

- CONSTRUCTION KEYED NOTES:**
- 2-SACK TO BE SUBSIDIARY TO PIPE INSTALLATION. CONTRACTOR CAN MIX 2-SACK ON SITE. SEE GENERAL NOTE 21.
 - ALL PORTIONS OF ROADWAY TO BE OVERLAYED WITH 1 1/2" HMAC.
 - CUT AND PLUG TO OCCUR AFTER TESTING AND TIE-INS.
 - 6" IRRIGATION LINE TO BE PVC DR-14 FROM TIE-IN TO APPROXIMATE STA. 10+31. REFER TO SHEET CP-300 AND CP-301 FOR FURTHER INFORMATION.

CURVE TABLE											
Curve #	PC STA.	PT STA.	PC NORTHING	PC EASTING	PT NORTHING	PT EASTING	DELTA	LENGTH	RADIUS	TANGENT	CHORD
C1	5+22.81	5+77.09	878428.99	1828449.07	878452.13	1828498.08	10.366°	54.28	300.00	27.21	54.20
C2	7+04.44	7+94.87	878495.90	1828617.68	878517.15	1828705.38	12.953°	90.43	400.00	45.41	90.23

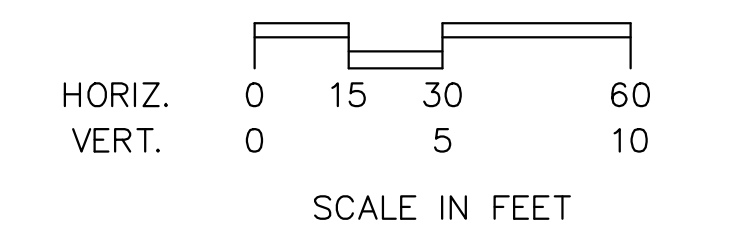


PSC & COOPER
 PARKHILL SMITH & COOPER
Kevin D. Fredley
 KEVIN D. FREDLEY
 NEW MEXICO
 18102
 PROFESSIONAL ENGINEER
 08/06/2014

ALTO LAKES WATER DISTRIBUTION IMPROVEMENTS B

214 LAKESHORE
ALTO, NM 88312
(575) 336-4333

PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS AFTER PRESENTATION OF THE APPLICATION FOR PAYMENT TO THE OWNER WITH ENGINEER'S RECOMMENDATION, THE AMOUNT RECOMMENDED WILL BECOME DUE, AND WHEN DUE, WILL BE PAID BY THE OWNER TO THE CONTRACTOR.



NO.	DATE	DESCRIPTION

ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

DEER VALLEY DR
PLAN AND PROFILE
STA 1+00 TO 8+00

CP-101

14.52:10
Xrefs: X:SRVY-PH-5256, XTB-5256.13
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12/12/2014

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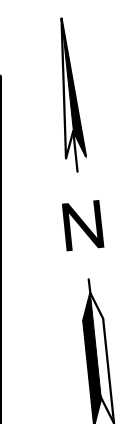
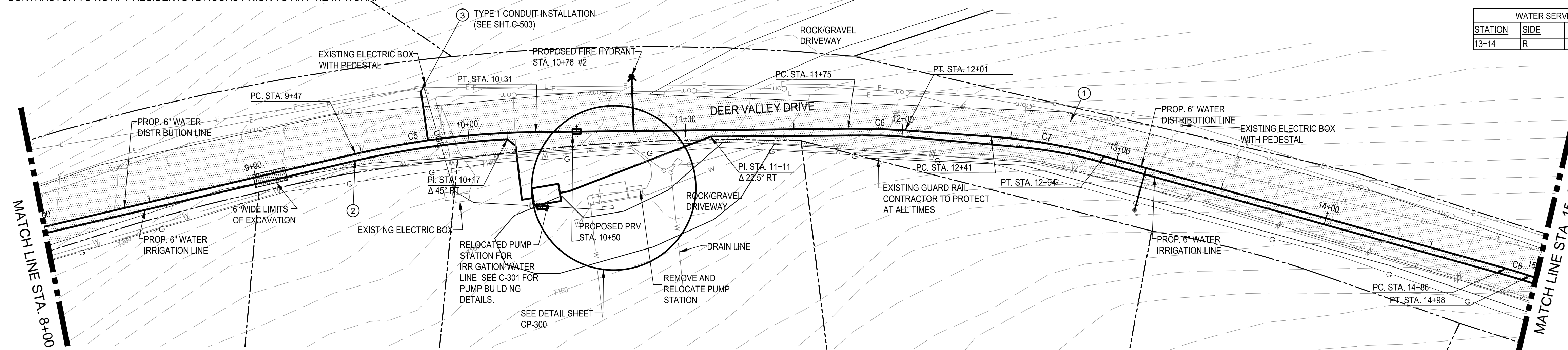
1. CONTRACTOR TO MAINTAIN ACCESS FOR ALL RESIDENTS WHILE WORKING ON ALL STREETS.
2. CONTRACTOR TO MAINTAIN 3' COVER UNLESS OTHERWISE NOTED.
3. CONTRACTOR TO VERIFY LOCATION OF EXISTING WATER LINES PRIOR TO CONSTRUCTION.
4. CONTRACTOR TO LOCATE ANY EXISTING UTILITIES IN THE PROPOSED FIRE HYDRANT LOCATIONS. IF EXISTING UTILITIES ARE PRESENT AND FIRE HYDRANT IS UNABLE TO BE INSTALLED CONTRACTOR TO CONTACT FIELD ENGINEER FOR NEW LOCATION.
5. BOTH 6" WATERLINE CAN BE INSTALLED IN SAME TRENCH. SEE DETAIL C-503.
6. CONTRACTOR TO ONLY PRESSURE TEST ONLY 6" IRRIGATION LINE. BAC-T TEST NOT REQUIRES
7. CONTRACTOR TO PASS PRESSURE TEST AND BAC-T TEST ON 6" DISTRIBUTION LINE PRIOR TO ANY TIE-INS TO EXISTING LINES.
8. CONTRACTOR TO COORDINATE ALL TIE-INS WITH ALW&SD 48 HR PRIOR TO ANY TIE-IN WORK. ALL TIE-IN WORK SHALL BE COMPLETED WITHIN 4 HOURS OF LINE SHUT DOWN.
9. CONTRACTOR TO NOTIFY RESIDENTS 72 HOURS PRIOR TO ANY TIE-IN WORK.

CONSTRUCTION KEYED NOTES:

- ① ALL PORTIONS OF ROADWAY TO BE OVERLAPPED WITH 1 1/2" HMAC.
- ② 6" IRRIGATION LINE TO BE PVC DR-14 FROM TIE-IN TO APPROXIMATE STA. 10+31. REFER TO SHEET CP-300 AND CP-301 FOR FURTHER INFORMATION.
- ③ COORDINATE EXACT LOCATION WITH OTERO COUNTY ELECTRIC PRIOR TO INSTALLATION.

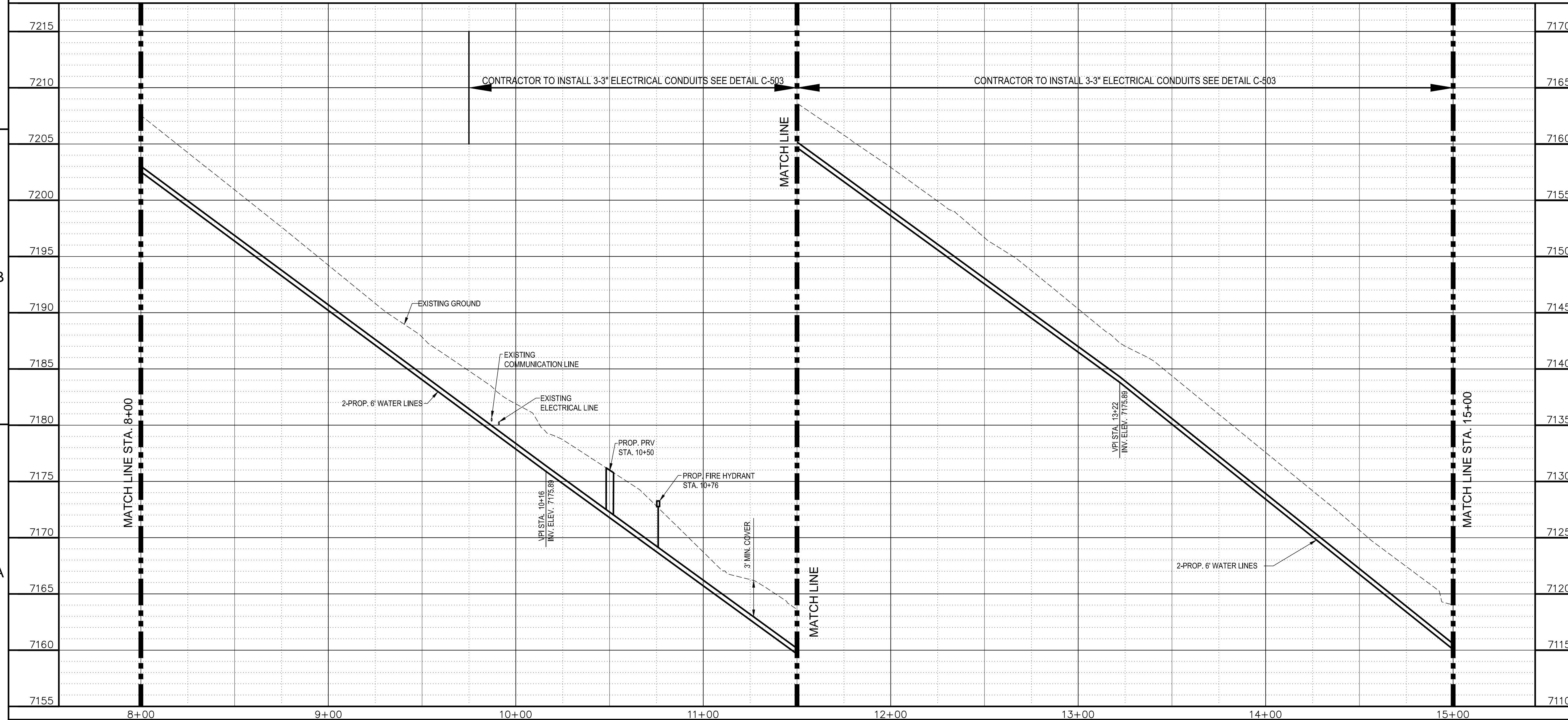
CURVE TABLE											
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C6	11+74.93	12+01.19	878523.95	1829083.44	878520.42	1829109.46	4.739°	26.26	317.56	13.14	26.26
C7	12+40.91	12+94.04	878513.44	1829148.56	878498.95	1829199.58	11.486°	53.13	265.03	26.66	53.04
C8	14+86.23	14+97.72	878428.20	1829378.28	878423.69	1829388.84	3.071°	11.49	214.33	5.75	11.49

WATER SERVICE			
STATION	SIDE	EXIST.	NEW
13+14	R	X	



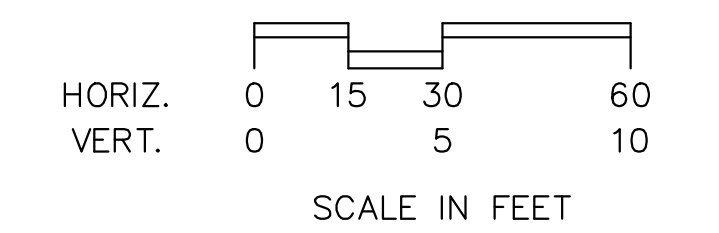
PARKHILL SMITH & COOPER

ALTO LAKES WATER DISTRIBUTION IMPROVEMENTS B



**214 LAKESHORE
ALTO, NM 88312
(575) 336-4333**

PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS AFTER PRESENTATION OF THE APPLICATION FOR PAYMENT TO THE OWNER WITH ENGINEER'S RECOMMENDATION, THE AMOUNT RECOMMENDED WILL BECOME DUE, AND WHEN DUE, WILL BE PAID BY THE OWNER TO THE CONTRACTOR.



NO.	DATE	DESCRIPTION

ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

**DEER VALLEY DR
PLAN AND PROFILE
STA 8+00 TO 15+00**

CP-102

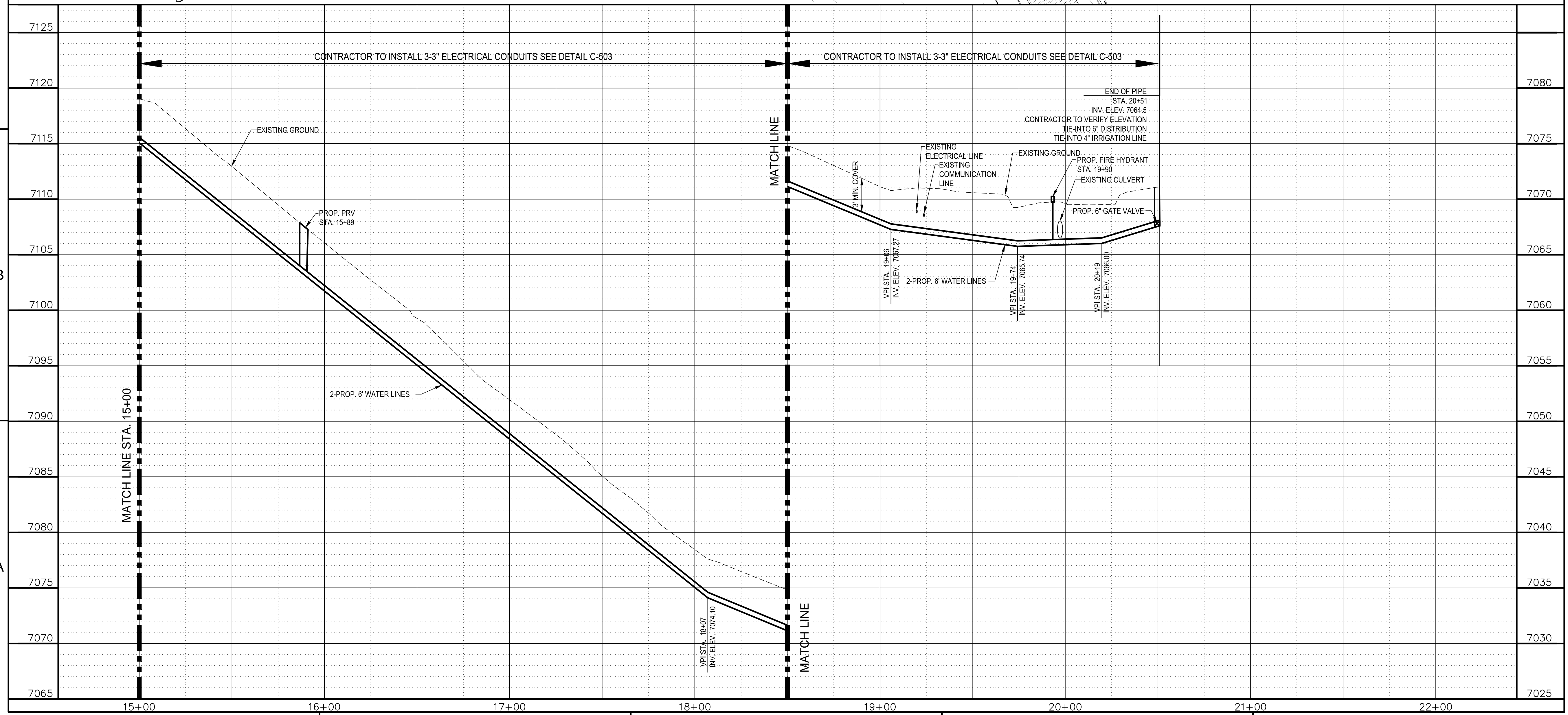
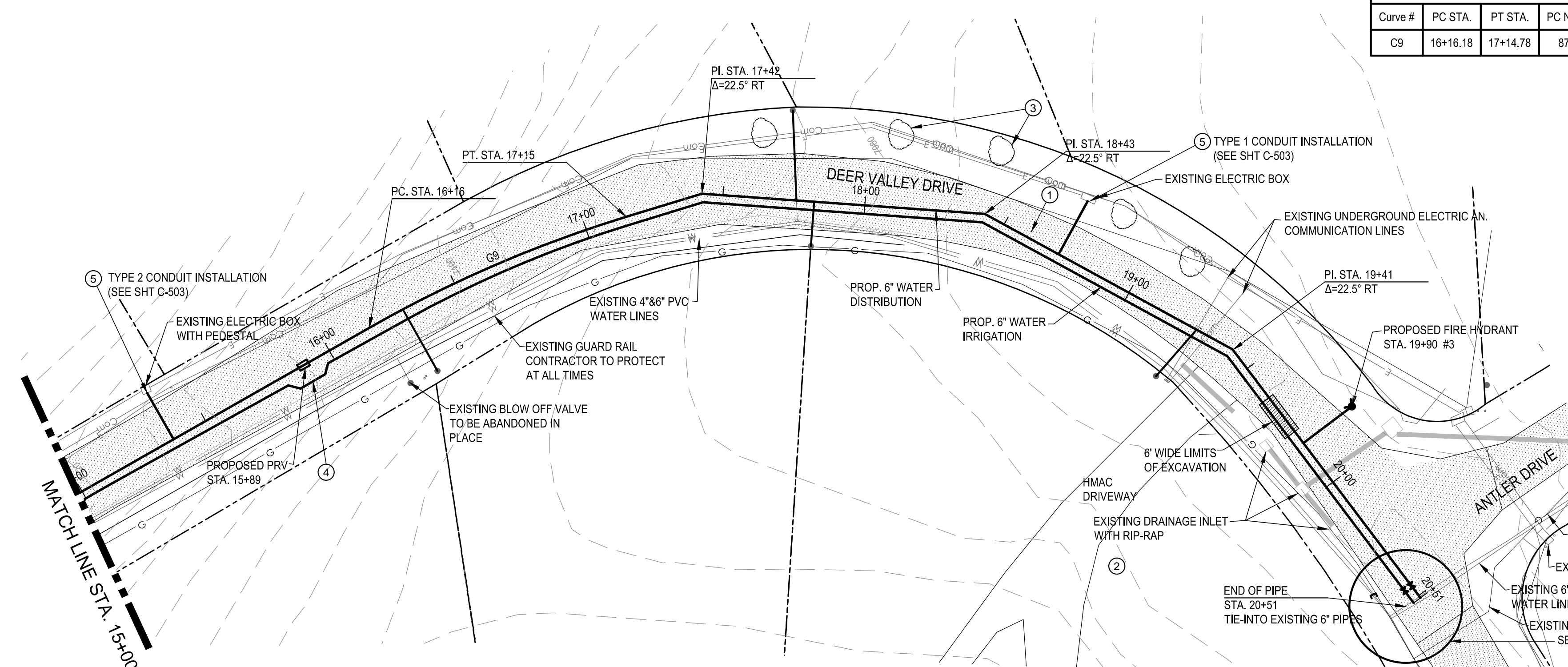
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12/1/2014

CURVE TABLE											
Curve #	PC STA.	PT STA.	PC NORTHING	PC EASTING	PT NORTHING	PT EASTING	DELTA	LENGTH	RADIUS	TANGENT	CHORD
C9	16+16.18	17+14.78	878374.25	1829496.49	878323.58	1829580.84	12.649°	98.59	446.59	49.50	98.39

- NOTES:**
- CONTRACTOR TO MAINTAIN ACCESS FOR ALL RESIDENTS WHILE WORKING ON ALL STREETS.
 - CONTRACTOR TO MAINTAIN 3' COVER UNLESS OTHERWISE NOTED.
 - CONTRACTOR TO VERIFY LOCATION OF EXISTING WATER LINES PRIOR TO CONSTRUCTION.
 - CONTRACTOR TO LOCATE ANY EXISTING UTILITIES IN THE PROPOSED FIRE HYDRANT LOCATIONS. IF EXISTING UTILITIES ARE PRESENT AND FIRE HYDRANT IS UNABLE TO BE INSTALLED CONTRACTOR TO CONTACT FIELD ENGINEER FOR NEW LOCATION.
 - BOTH 6" WATERLINE CAN BE INSTALLED IN SAME TRENCH. SEE DETAIL C-503.
 - CONTRACTOR TO ONLY PRESSURE TEST ONLY 6" IRRIGATION LINE. BAC-T TEST NOT REQUIRES CONTRACTOR TO PASS PRESSURE TEST AND BAC-T TEST ON 6" DISTRIBUTION LINE PRIOR TO ANY TIE-INS TO EXISTING LINES.
 - CONTRACTOR TO COORDINATE ALL TIE-INS WITH ALW&SD 48 HR PRIOR TO ANY TIE-IN WORK. ALL TIE-IN WORK SHALL BE COMPLETED WITHIN 4 HOURS OF LINE SHUT DOWN.
 - CONTRACTOR TO NOTIFY RESIDENTS 72 HOURS PRIOR TO ANY TIE-IN WORK.

- CONSTRUCTION KEYED NOTES:**
- ALL PORTIONS OF ROADWAY TO BE OVERLAYED WITH 1 1/2" HMAC. CUT AND PLUGS TO OCCUR AFTER TESTING AND TIE-INS
 - CONTRACTOR TO PROTECT EXISTING PINE TREES IN THIS AREA
 - CONTRACTOR SHALL BEGIN TO DEFLECT THE IRRIGATION LINE TO ALLOW FOR PLACEMENT OF PRV VALVE VAULT.
 - COORDINATE EXACT LOCATION WITH OTERO COUNTY ELECTRIC PRIOR TO INSTALLATION.

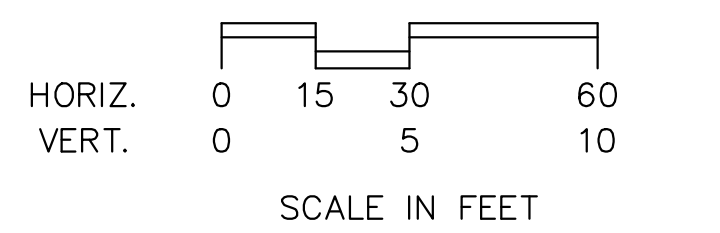
WATER SERVICE			
STATION	SIDE	EXIST.	NEW
16+30	R		X
17+76	L	X	
17+82	R		X
19+27	R	X	



ALTO LAKES WATER DISTRIBUTION IMPROVEMENTS B

214 LAKESHORE ALTO, NM 88312 (575) 336-4333

PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS AFTER PRESENTATION OF THE APPLICATION FOR PAYMENT TO THE OWNER WITH ENGINEER'S RECOMMENDATION, THE AMOUNT RECOMMENDED WILL BECOME DUE, AND WHEN DUE, WILL BE PAID BY THE OWNER TO THE CONTRACTOR.



NO.	DATE	DESCRIPTION

ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

DEER VALLEY DR PLAN AND PROFILE STA 15+00 TO 20+51

CP-103

PARKHILL SMITH & COOPER

Kevin D. Fredley

13:41:35

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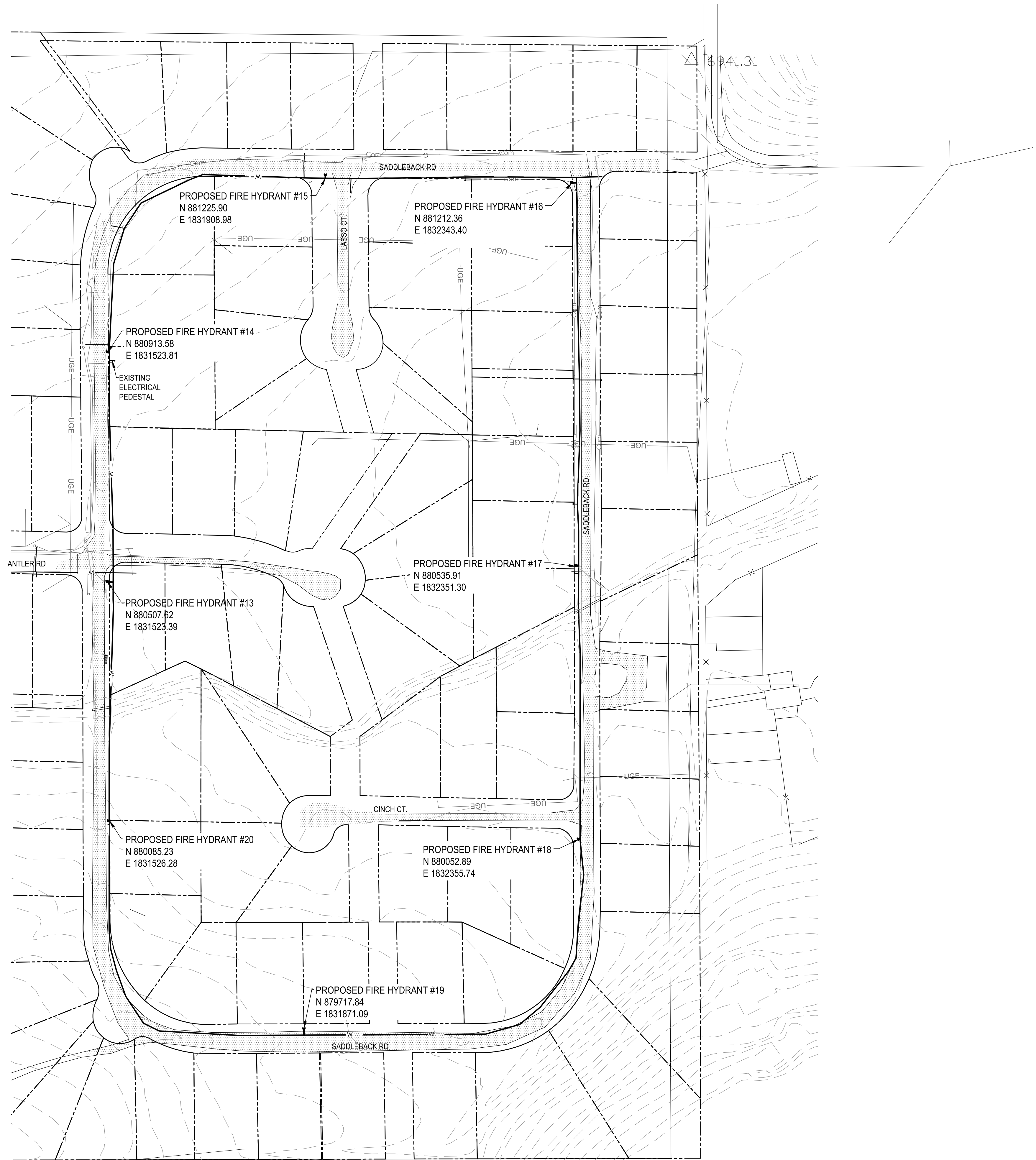
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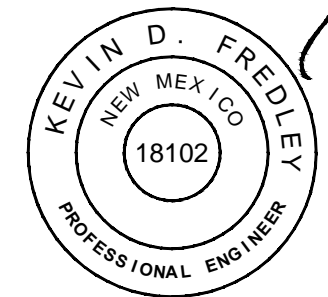
GENERAL NOTES:

1. CONTRACTOR TO LOCATE ANY EXISTING UTILITIES IN THE PROPOSED FIRE HYDRANT LOCATIONS. IF EXISTING UTILITIES ARE PRESENT AND FIRE HYDRANT IS UNABLE TO BE INSTALLED CONTRACTOR TO CONTACT FIELD ENGINEER FOR NEW LOCATION.
2. ALL FIRE HYDRANTS TO BE CONNECTED TO THE EXISTING 6" DISTRIBUTION LINE, TO BE FIELD LOCATED BY CONTRACTOR.
3. CONTRACTOR TO VERIFY THAT THERE IS SUFFICIENT ROOM TO INSTALL THE FIRE HYDRANT AT THE PROPOSED LOCATION BASED ON LOCATION OF EXISTING WATER LINE AND PROPERTY LINE. IF THERE IS NOT ENOUGH ROOM TO INSTALL CONTRACTOR TO CONTACT FIELD ENGINEER FOR NEW LOCATION.
4. CONTRACTOR TO BE AWARE THERE ARE NUMEROUS UTILITIES IN THE AREA.
5. IN SOME LOCATIONS FIRE HYDRANTS MAY NEED TO BE RAISED DUE TO EXISTING CONDITIONS.
6. ALL FIRE HYDRANTS TO BE RED IN COLOR.



PARKHILL SMITH & COOPER

Kevin D. Fredeley

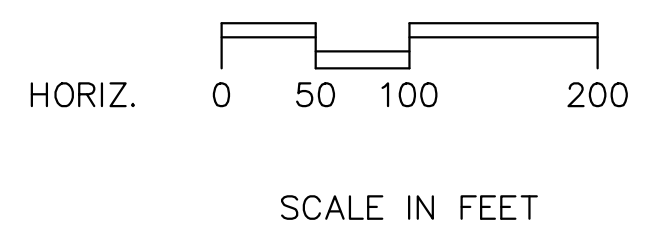


08/06/2014

ALTO LAKES WATER DISTRIBUTION IMPROVEMENTS B

214 LAKESHORE ALTO, NM 88312 (575) 336-4333

PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS AFTER PRESENTATION OF THE APPLICATION FOR PAYMENT TO THE OWNER WITH ENGINEER'S RECOMMENDATION, THE AMOUNT RECOMMENDED WILL BECOME DUE, AND WHEN DUE, WILL BE PAID BY THE OWNER TO THE CONTRACTOR.



NO.	DATE	DESCRIPTION

ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

FIRE HYDRANT LOCATIONS SADDLEBACK RD

CP-201

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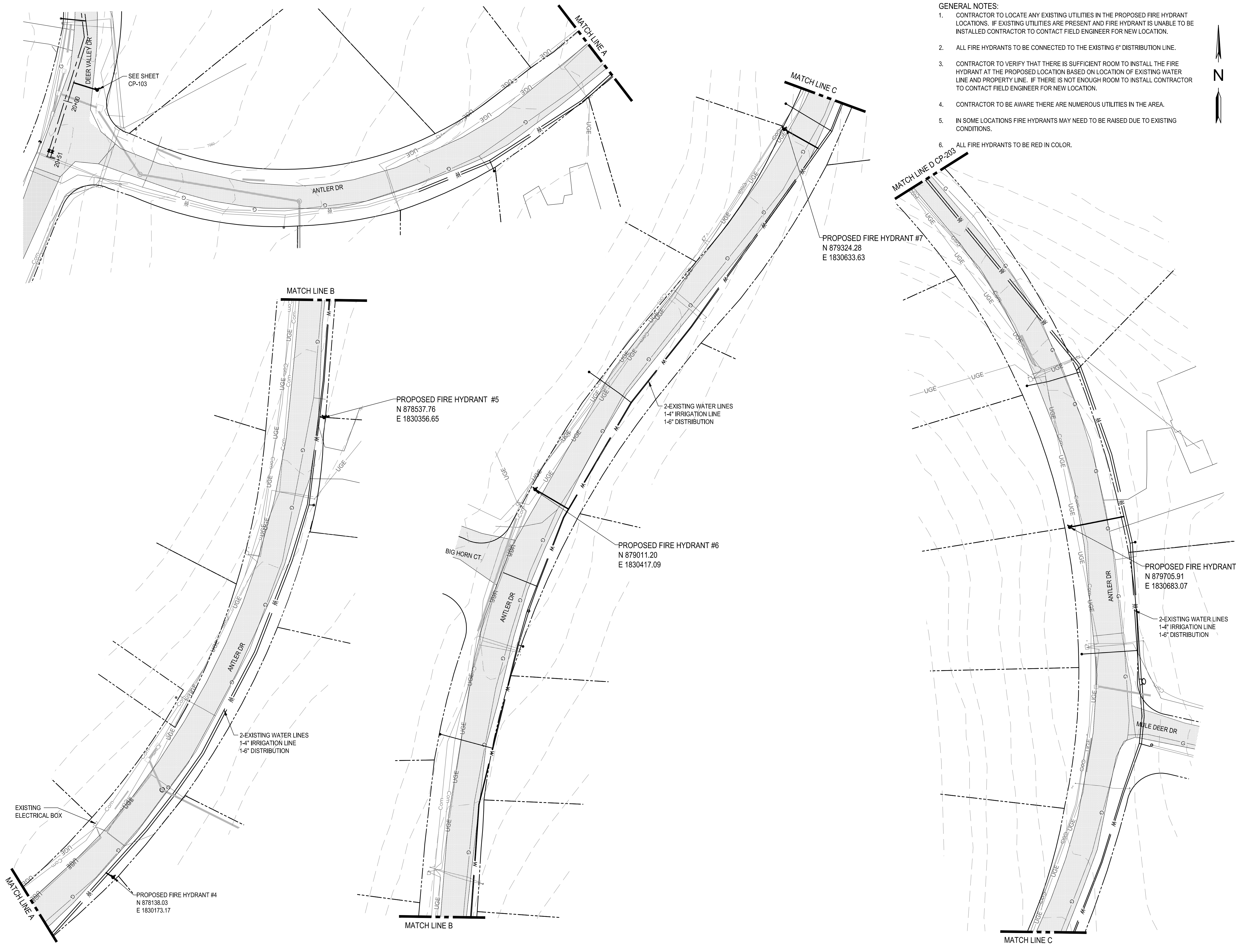
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- GENERAL NOTES:
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 2. ALL FIRE HYDRANTS TO BE CONNECTED TO THE EXISTING 6" DISTRIBUTION LINE.
 3. CONTRACTOR TO VERIFY THAT THERE IS SUFFICIENT ROOM TO INSTALL THE FIRE HYDRANT AT THE PROPOSED LOCATION BASED ON LOCATION OF EXISTING WATER LINE AND PROPERTY LINE. IF THERE IS NOT ENOUGH ROOM TO INSTALL CONTRACTOR TO CONTACT FIELD ENGINEER FOR NEW LOCATION.
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 6. ALL FIRE HYDRANTS TO BE RED IN COLOR.



PSC

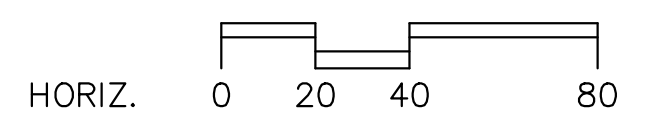
Kevin D. Fredeley

PARKHILL SMITH & COOPER

**ALTO LAKES
WATER DISTRIBUTION
IMPROVEMENTS B**

**214 LAKESHORE
ALTO, NM 88312
(575) 336-4333**

PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS
AFTER PRESENTATION OF THE APPLICATION FOR
PAYMENT TO THE OWNER WITH ENGINEER'S
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WILL BECOME DUE, AND WHEN DUE, WILL BE PAID
BY THE OWNER TO THE CONTRACTOR.



SCALE IN FEET

NO.	DATE	DESCRIPTION

ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

**FIRE HYDRANT LOCATIONS
ANTLER DR.**

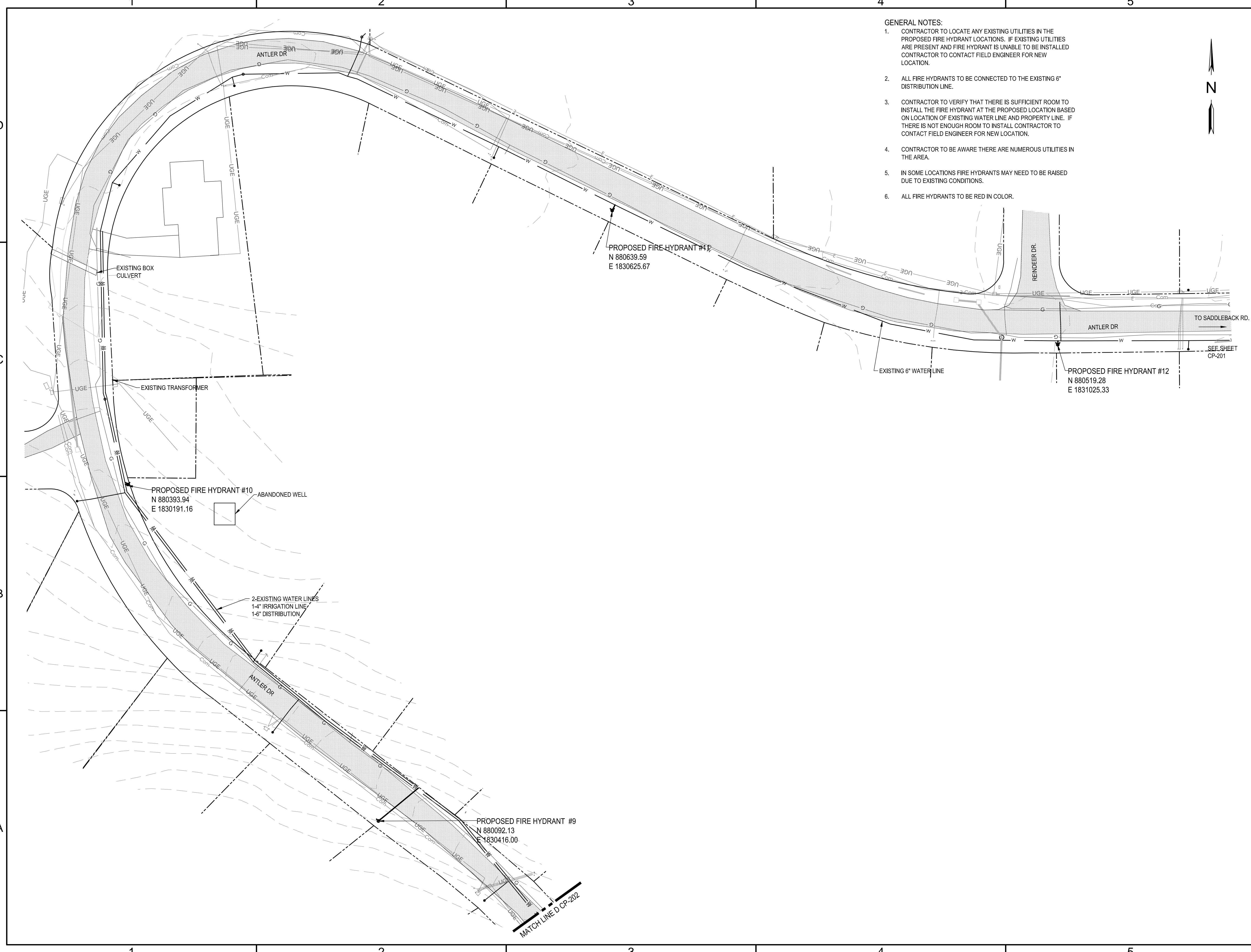
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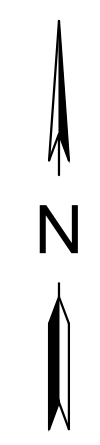
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11/1/2013



- GENERAL NOTES:**
1. CONTRACTOR TO LOCATE ANY EXISTING UTILITIES IN THE PROPOSED FIRE HYDRANT LOCATIONS. IF EXISTING UTILITIES ARE PRESENT AND FIRE HYDRANT IS UNABLE TO BE INSTALLED CONTRACTOR TO CONTACT FIELD ENGINEER FOR NEW LOCATION.
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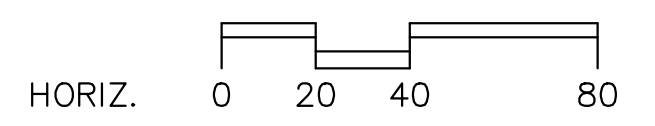
Kevin D. Fredley
 KEVIN D. FREDLEY
 NEW MEXICO
 18102
 PROFESSIONAL ENGINEER
 08/06/2014

PSC
PARKHILL SMITH & COOPER

**ALTO LAKES
 WATER DISTRIBUTION
 IMPROVEMENTS B**

**214 LAKESHORE
 ALTO, NM 88312
 (575) 336-4333**

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SCALE IN FEET

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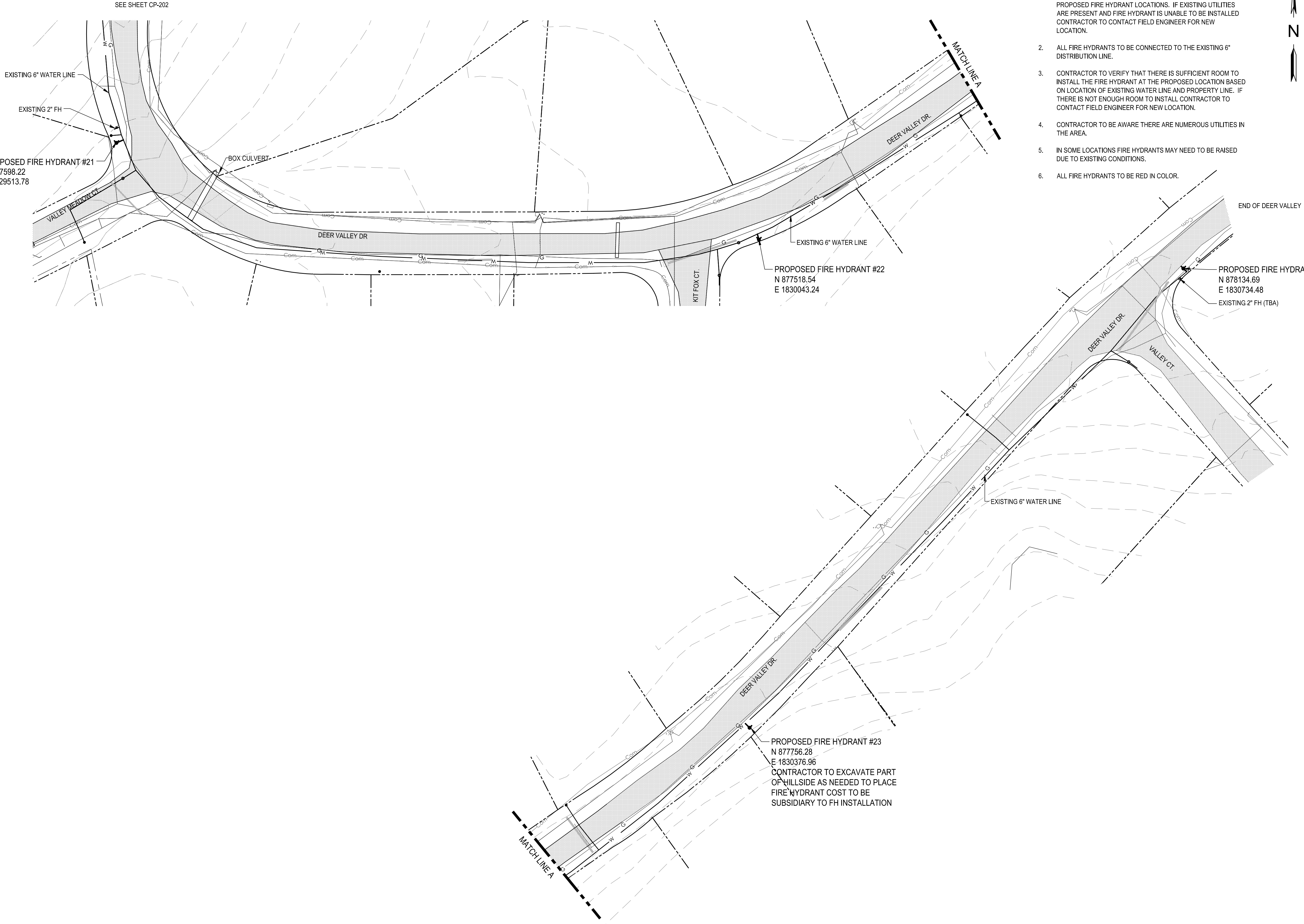
ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

**FIRE HYDRANT LOCATIONS
 ANTLER DR.**

CP-203

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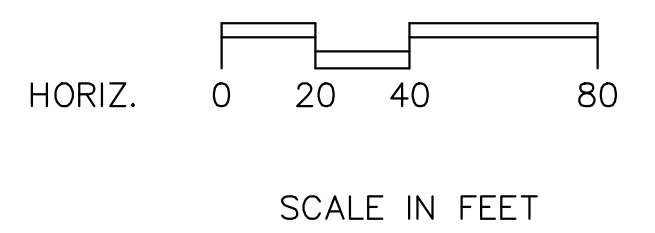
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 6. ALL FIRE HYDRANTS TO BE RED IN COLOR.



**ALTO LAKES
 WATER DISTRIBUTION
 IMPROVEMENTS B**

**214 LAKESHORE
 ALTO, NM 88312
 (575) 336-4333**

PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS
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NO.	DATE	DESCRIPTION

ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

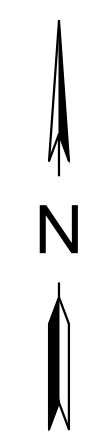
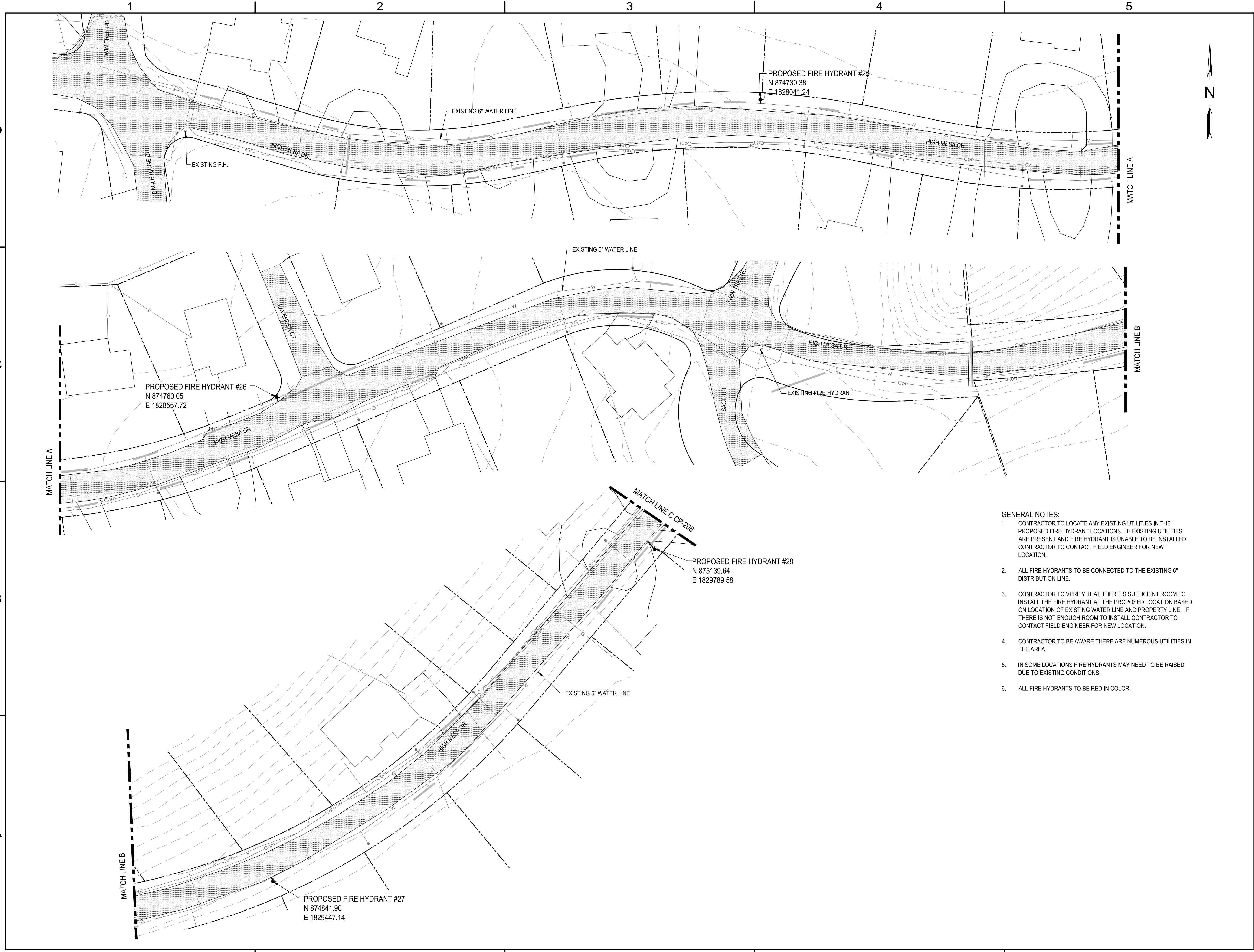
**FIRE HYDRANT LOCATIONS
 DEER VALLEY DR.**

CP-204

PSC

Kevin D. Fredeley

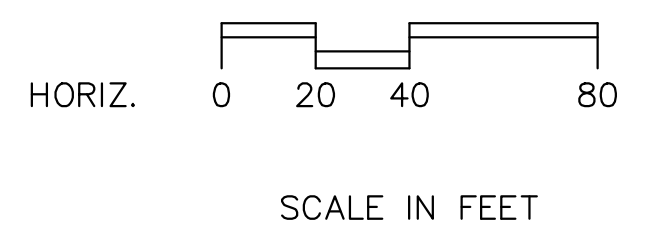
PARK HILL SMITH & COOPER



**ALTO LAKES
WATER DISTRIBUTION
IMPROVEMENTS B**

**214 LAKESHORE
ALTO, NM 88312
(575) 336-4333**

PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS
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NO.	DATE	DESCRIPTION

ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

**FIRE HYDRANT LOCATIONS
EAST HIGH MESA**

CP-205

- GENERAL NOTES:**
1. CONTRACTOR TO LOCATE ANY EXISTING UTILITIES IN THE PROPOSED FIRE HYDRANT LOCATIONS. IF EXISTING UTILITIES ARE PRESENT AND FIRE HYDRANT IS UNABLE TO BE INSTALLED CONTRACTOR TO CONTACT FIELD ENGINEER FOR NEW LOCATION.
 2. ALL FIRE HYDRANTS TO BE CONNECTED TO THE EXISTING 6" DISTRIBUTION LINE.
 3. CONTRACTOR TO VERIFY THAT THERE IS SUFFICIENT ROOM TO INSTALL THE FIRE HYDRANT AT THE PROPOSED LOCATION BASED ON LOCATION OF EXISTING WATER LINE AND PROPERTY LINE. IF THERE IS NOT ENOUGH ROOM TO INSTALL CONTRACTOR TO CONTACT FIELD ENGINEER FOR NEW LOCATION.
 4. CONTRACTOR TO BE AWARE THERE ARE NUMEROUS UTILITIES IN THE AREA.
 5. IN SOME LOCATIONS FIRE HYDRANTS MAY NEED TO BE RAISED DUE TO EXISTING CONDITIONS.
 6. ALL FIRE HYDRANTS TO BE RED IN COLOR.

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GENERAL NOTES:

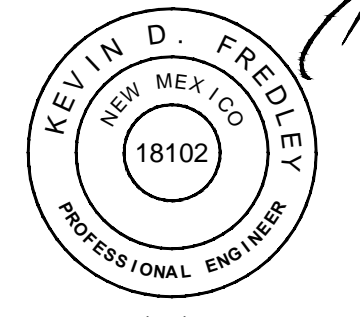
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PSC

PARKHILL SMITH & COOPER

Kevin D. Fredeley

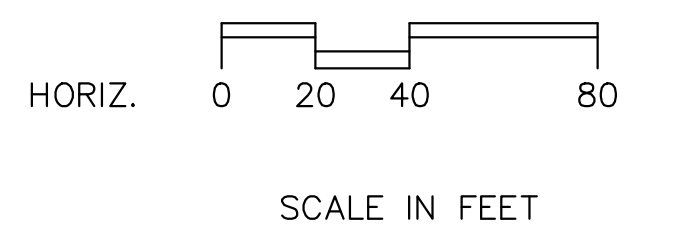


08/06/2014

**ALTO LAKES
WATER DISTRIBUTION
IMPROVEMENTS B**

**214 LAKESHORE
ALTO, NM 88312
(575) 336-4333**

PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS AFTER PRESENTATION OF THE APPLICATION FOR PAYMENT TO THE OWNER WITH ENGINEER'S RECOMMENDATION, THE AMOUNT RECOMMENDED WILL BECOME DUE, AND WHEN DUE, WILL BE PAID BY THE OWNER TO THE CONTRACTOR.



NO.	DATE	DESCRIPTION

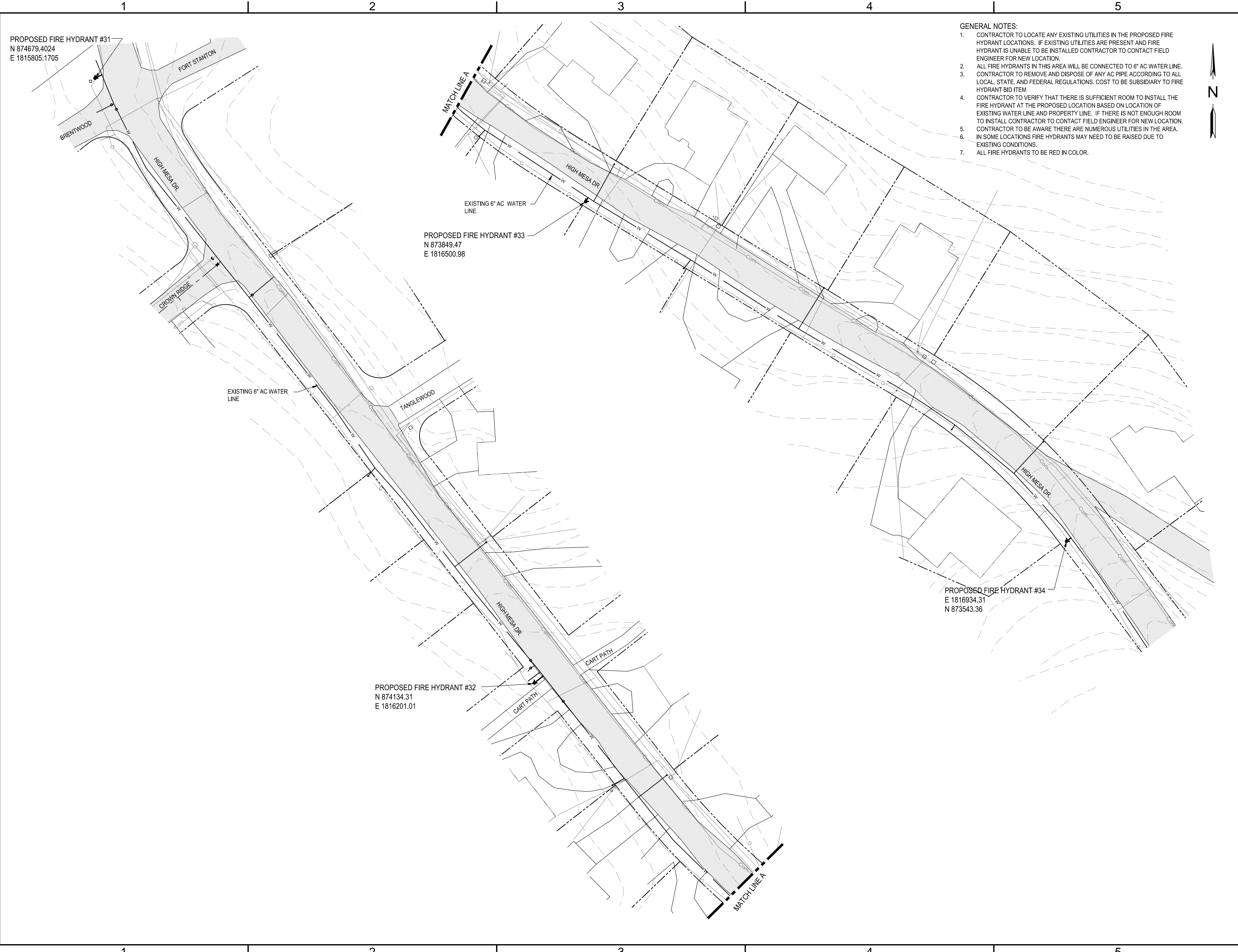
ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

**FIRE HYDRANT LOCATIONS
EAST HIGH MESA**

CP-206



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- GENERAL NOTES:**
1. CONTRACTOR TO LOCATE ANY EXISTING UTILITIES IN THE PROPOSED FIRE HYDRANT LOCATIONS. IF EXISTING UTILITIES ARE PRESENT AND FIRE HYDRANT IS UNABLE TO BE INSTALLED CONTRACTOR TO CONTACT FIELD ENGINEER FOR NEW LOCATION.
 2. ALL FIRE HYDRANTS IN THIS AREA WILL BE CONNECTED TO 6" AC WATER LINE.
 3. CONTRACTOR TO REMOVE AND DISPOSE OF ANY AC PIPE ACCORDING TO ALL LOCAL, STATE, AND FEDERAL REGULATIONS. COST TO BE SUBSIDIARY TO FIRE HYDRANT BID ITEM
 4. CONTRACTOR TO VERIFY THAT THERE IS SUFFICIENT ROOM TO INSTALL THE FIRE HYDRANT AT THE PROPOSED LOCATION BASED ON LOCATION OF EXISTING WATER LINE AND PROPERTY LINE. IF THERE IS NOT ENOUGH ROOM TO INSTALL CONTRACTOR TO CONTACT FIELD ENGINEER FOR NEW LOCATION.
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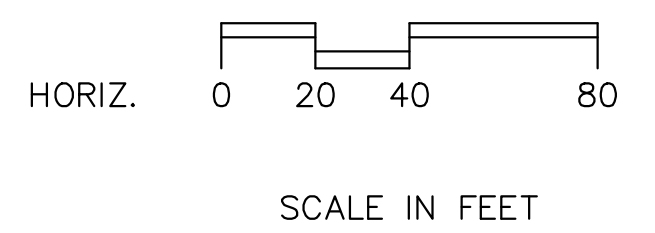
PSC
PARKHILL SMITH & COOPER

Kevin D. Fredley
 KEVIN D. FREDLEY
 NEW MEXICO
 18102
 PROFESSIONAL ENGINEER
 08/06/2014

**ALTO LAKES
 WATER DISTRIBUTION
 IMPROVEMENTS B**

**214 LAKESHORE
 ALTO, NM 88312
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PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS
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NO.	DATE	DESCRIPTION

ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

**FIRE HYDRANT LOCATIONS
 WEST HIGH MESA**

CP-207

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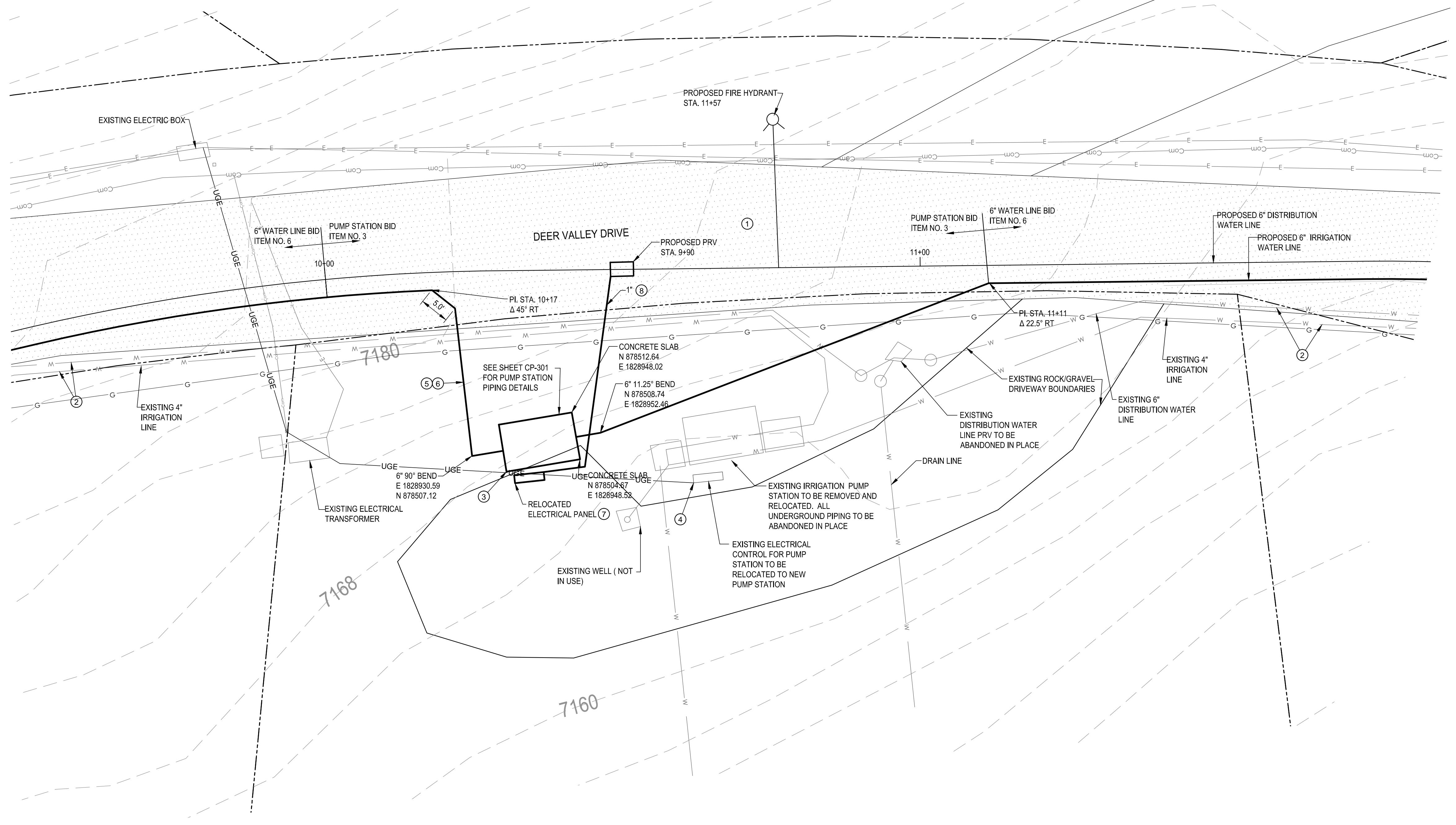
1/22/2014

NOTES:

1. CONTRACTOR TO MAINTAIN ACCESS TO ALL RESIDENTS WHILE WORKING ON ALL STREETS.
2. CONTRACTOR TO MAINTAIN 3" COVER UNLESS OTHERWISE NOTED.
3. CONTRACTOR TO VERIFY LOCATION OF EXISTING WATER LINES.
4. CONTRACTOR TO FIELD LOCATE FIRE HYDRANT. LOCATION CAN BE ADJUSTED AS NEEDED. HYDRANT SPACING TO NOT EXCEED 500 LF.
5. BOTH 6" WATERLINE CAN BE INSTALLED IN SAME TRENCH. SEE DETAIL C-503.
6. CONTRACTOR TO PASS PRESSURE TEST AND BAC-T TEST PRIOR TO ANY TIE-INS TO EXISTING LINES.
7. CONTRACTOR TO COORDINATE ALL TIE-INS WITH ALW&SD 48 HR PRIOR TO ANY TIE-IN WORK. ALL TIE-IN WORK SHALL BE COMPLETED WITHIN 4 HOURS OF LINE SHUT DOWN.
8. CONTRACTOR TO NOTIFY RESIDENTS 48 HOURS PRIOR TO ANY TIE-IN WORK.
9. EXISTING PUMP STATION PIPING IS SHOWN AS APPROXIMATE LOCATIONS. CONTRACTOR TO POT HOLE AND VERIFY AS NEEDED.
10. CONTRACTOR TO COORDINATE WITH OTERO COUNTY ELECTRICAL WITH RELOCATING ELECTRICAL PANEL.

CONSTRUCTION NOTES:

- ① ALL PORTIONS OF ROADWAY TO BE OVERLAYED WITH 1 1/2" HMAc.
- ② EXISTING 6" DISTRIBUTION AND 4" IRRIGATION LINES TO BE ABANDONED IN PLACE.
- ③ NEW CONCRETE SLAB FOR BUILDING TO HAVE 6" CLEARANCE ALL SIDES FROM BUILDING. CONTRACTOR TO VERIFY SIZE.
- ④ RELOCATE ELECTRICAL PANELS TO NEW ELECTRICAL PANEL LOCATION.
- ⑤ ALL UNDERGROUND PVC PIPING WEST OF THE RELOCATED PUMP STATION SHALL BE PVC DR-14
- ⑥ ALL UNDERGROUND PIPING WEST OF THE RELOCATED PUMP STATION SHALL BE RESTRAINED BETWEEN PUMP STATION AND STA. 9+67.
- ⑦ CONTRACTOR TO HAVE ALL ELECTRICAL AND PIPING IN PLACE AND READY PRIOR TO COORDINATING TIE-IN.
- ⑧ CONTRACTOR TO INSTALL 1" PVC CONDUIT FROM THE PRV VAULT TO THE RELOCATED ELECTRICAL PANEL. CONTRACTOR TO STUB-OUT AND CAP FOR FUTURE USE.



PARKHILL SMITH & COOPER

Kevin D. Fredeley

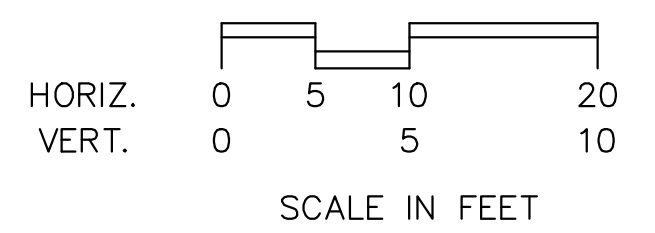


08/06/2014

ALTO LAKES WATER DISTRIBUTION IMPROVEMENTS B

214 LAKESHORE ALTO, NM 88312 (575) 336-4333

PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS AFTER PRESENTATION OF THE APPLICATION FOR PAYMENT TO THE OWNER WITH ENGINEER'S RECOMMENDATION, THE AMOUNT RECOMMENDED WILL BECOME DUE, AND WHEN DUE, WILL BE PAID BY THE OWNER TO THE CONTRACTOR.

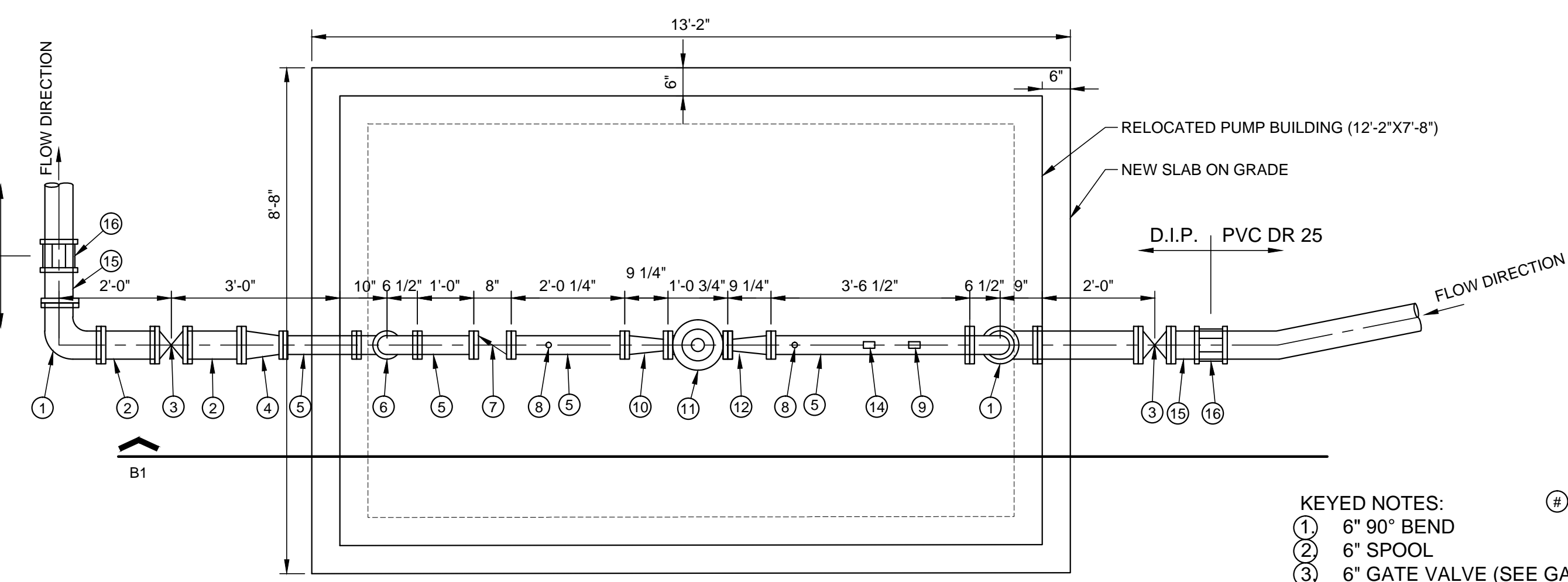


NO.	DATE	DESCRIPTION

ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

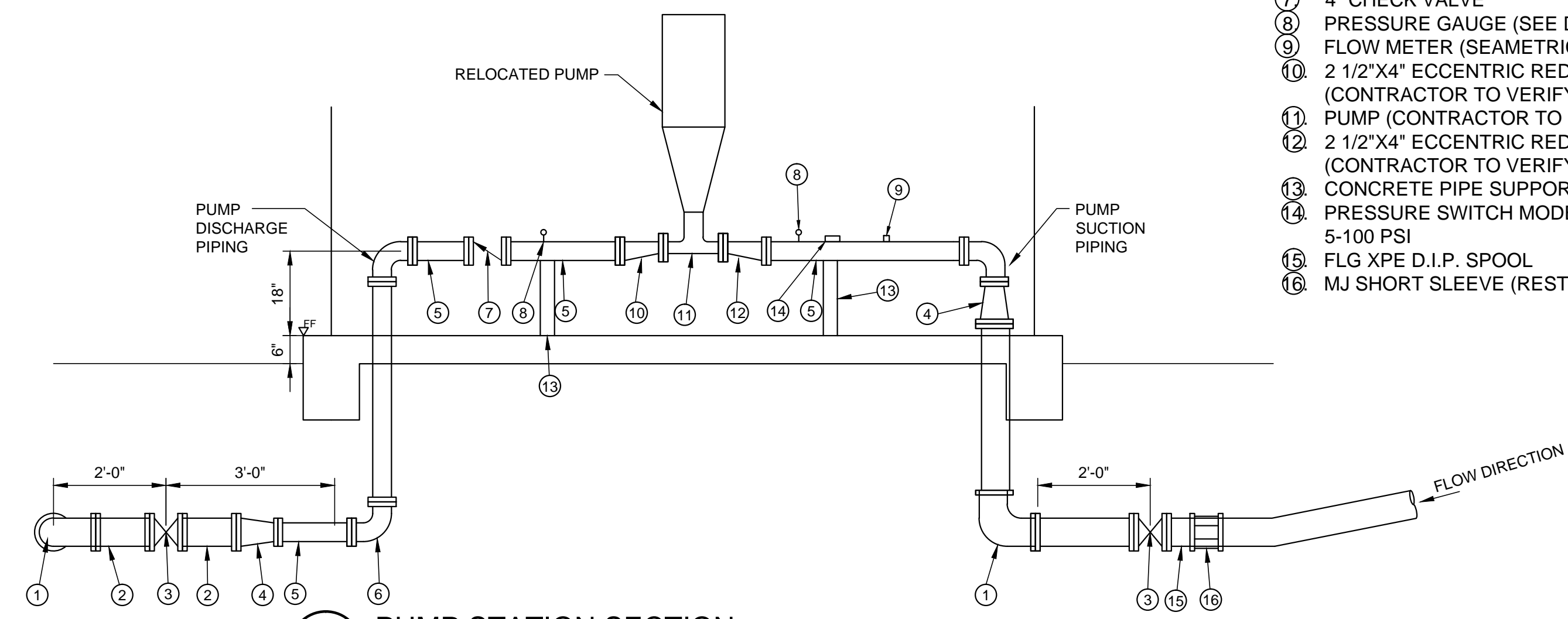
DEER VALLEY DR EXISTING IRRIGATION PUMP STATION RELOCATION

CP-300

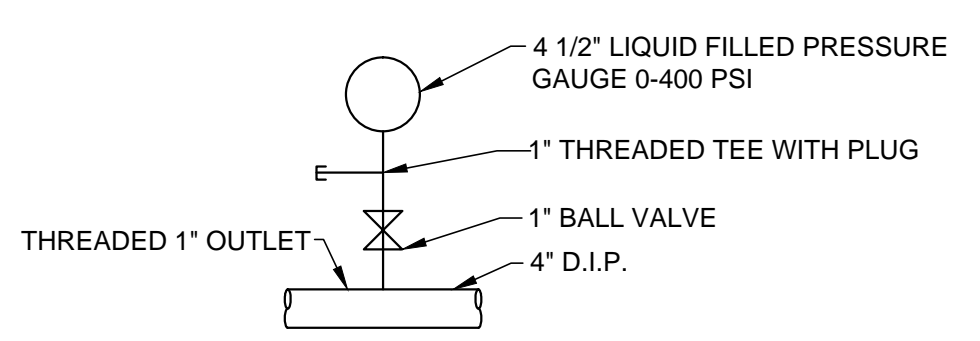


C1 PUMP STATION PLAN
1/2"=1'-0"

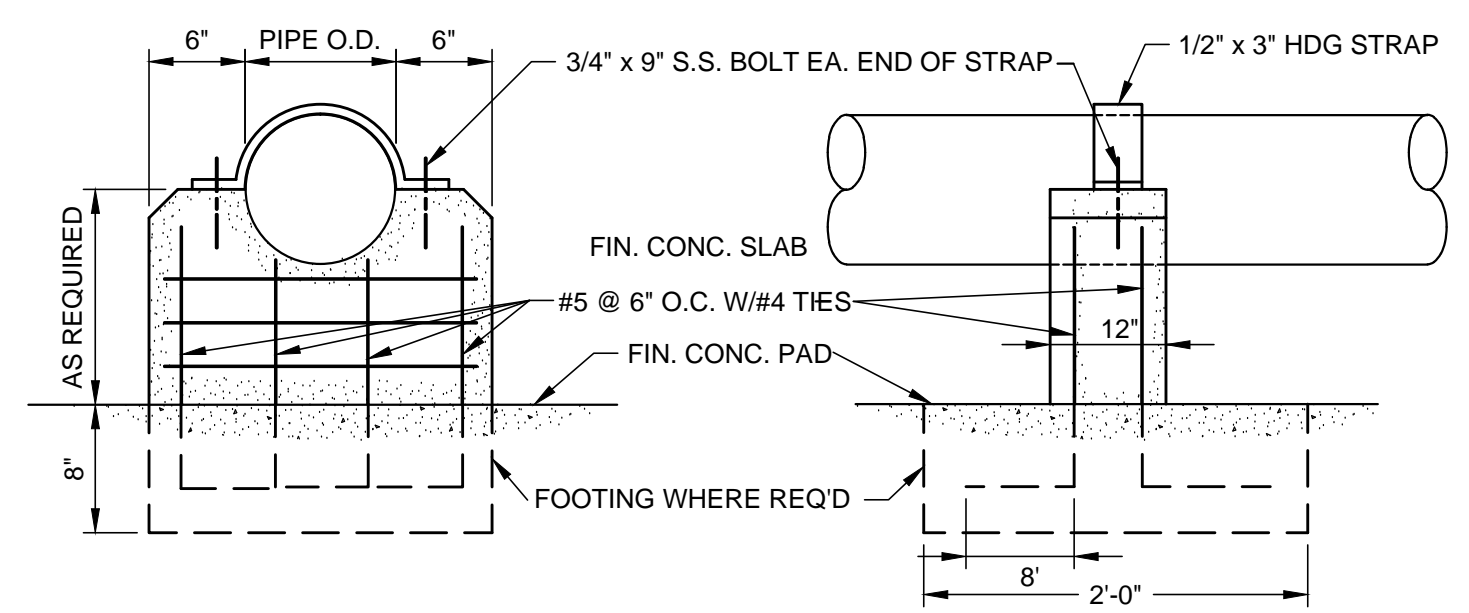
- KEYED NOTES:**
- ① 6" 90° BEND
 - ② 6" SPOOL
 - ③ 6" GATE VALVE (SEE GATE VALVE DETAIL SHT C-502)
 - ④ 6"x4" CONCENTRIC REDUCER
 - ⑤ 4" SPOOL
 - ⑥ 4" 90° BEND
 - ⑦ 4" CHECK VALVE
 - ⑧ PRESSURE GAUGE (SEE DETAIL THIS SHEET)
 - ⑨ FLOW METER (SEAMETRICS FT420)
 - ⑩ 2 1/2"x4" ECCENTRIC REDUCER FLAT SIDE ON TOP (CONTRACTOR TO VERIFY SIZES)
 - ⑪ PUMP (CONTRACTOR TO RELOCATE EXISTING PUMP)
 - ⑫ 2 1/2"x4" ECCENTRIC REDUCER FLAT SIDE ON TOP (CONTRACTOR TO VERIFY SIZES)
 - ⑬ CONCRETE PIPE SUPPORT
 - ⑭ PRESSURE SWITCH MODEL MERCORD DA-31-153-6 RANGE 5-100 PSI
 - ⑮ FLG XPE D.I.P. SPOOL
 - ⑯ MJ SHORT SLEEVE (RESTRAINED)



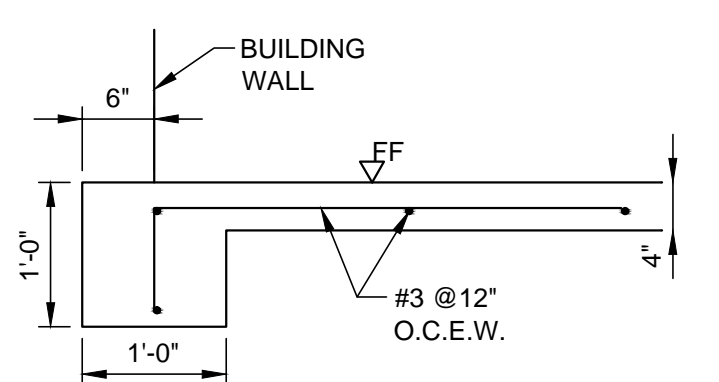
B1 PUMP STATION SECTION
1/2"=1'-0"



A4 PRESSURE GAUGE
NTS



D3 CONCRETE PIPE SUPPORT
NTS



A2 FOUNDATION DETAIL
3/4"=1'-0"

- GENERAL NOTES:**
- CONTRACTOR TO BASE MEASUREMENTS ON EXISTING BUILDING APPROXIMATELY 8'X10'
 - CONTRACTOR TO LEAVE CUTOUTS FOR ALL NEEDED ELECTRICAL AND PIPING AS NEEDED.
 - CONTRACTOR TO GROUT ALL OPENINGS OF CONDUIT AND PIPING WITH NON SHRINK GROUT.



EXISTING PUMP
(TO BE RELOCATED)



EXISTING ELECTRICAL PANEL
(TO BE RELOCATED)

CONSTRUCTION NOTES

- CONTRACTOR TO COORDINATE ALL WORK WITH ALW&SD
- CONTRACTOR TO REMOVE EXISTING BUILDING AND RELOCATE TO NEW LOCATION.
- ALL ABOVE GROUND PIPING SHALL BE FLANGED D.I.P.
- ALL BELOW GROUND D.I.P. SHALL BE DOUBLE WRAPPED WITH POLYETHYLENE FILM CONSISTING OF 16 MILS OF LOW DENSITY OR 8 MILS HIGH DENSITY.
- CONTRACTOR TO CLEAR AND GRUB AS NEEDED TO GET FROM NEW LOCATION OF PUMP STATION TO BE ABLE TO INSTALL PIPING UP THE HILL TO THE ROADWAY.
- CONTRACTOR TO TURN OVER ALL EXISTING PIPING, FITTINGS, AND ANY MISCELLANEOUS ITEMS TO OWNER.
- CONTRACTOR TO SECURE BLDG TO SLAB. CONTRACTOR TO PLACE THE SAME NUMBER OF HOLD DOWNS AS IN THE CURRENT BLDG.
- ALL PIPING, FITTINGS, VALVES, METER AND PIPING APPURTENANCES SHALL BE NEW.
- ALL PUMP DISCHARGE UNDERGROUND PIPING, FITTINGS AND VALVES SHALL BE MECHANICALLY RESTRAINED CONTINUOUSLY TO STA. 9+67 SEE SHEET CP-300 FOR FURTHER INFORMATION.
- CONTRACTOR TO VERIFY ALL DIMENSIONS.



EXISTING CONDITIONS

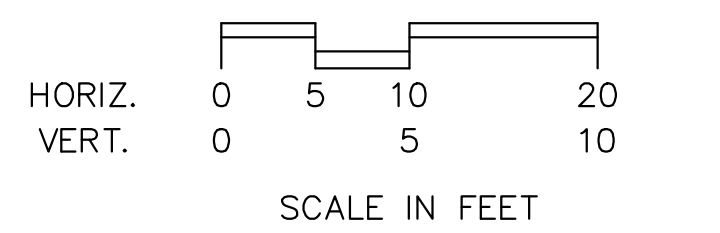


EXISTING CONDITIONS

ALTO LAKES WATER DISTRIBUTION IMPROVEMENTS B

**214 LAKESHORE
ALTO, NM 88312
(575) 336-4333**

PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS AFTER PRESENTATION OF THE APPLICATION FOR PAYMENT TO THE OWNER WITH ENGINEER'S RECOMMENDATION, THE AMOUNT RECOMMENDED WILL BECOME DUE, AND WHEN DUE, WILL BE PAID BY THE OWNER TO THE CONTRACTOR.



NO.	DATE	DESCRIPTION	PROJECT NO.
			5256.13

**DEER VALLEY DR
IRRIGATION PUMP STATION
PIPING AND FOUNDATION
DETAILS**

CP-301

15/3/22

Xrefs: X:SRV(X:PH)5256.XTB:5256.13

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1/22/2014

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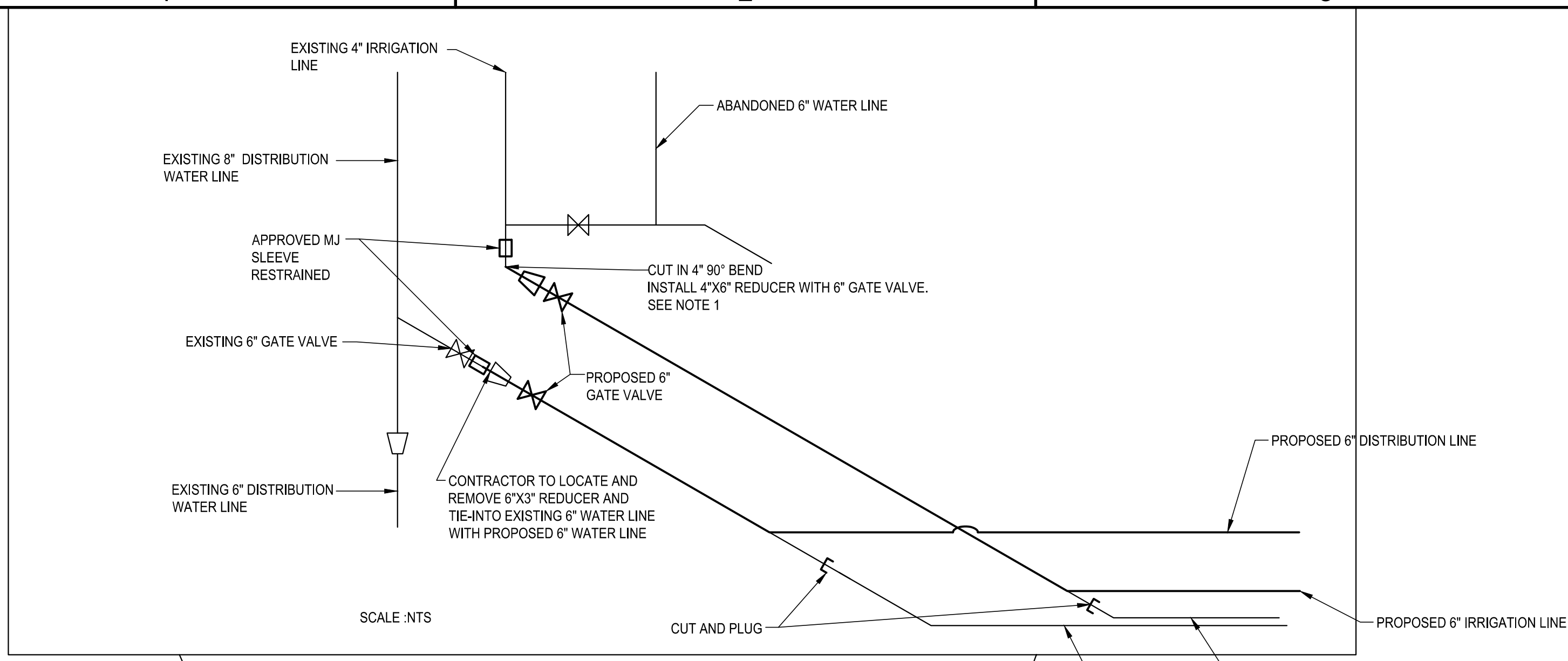
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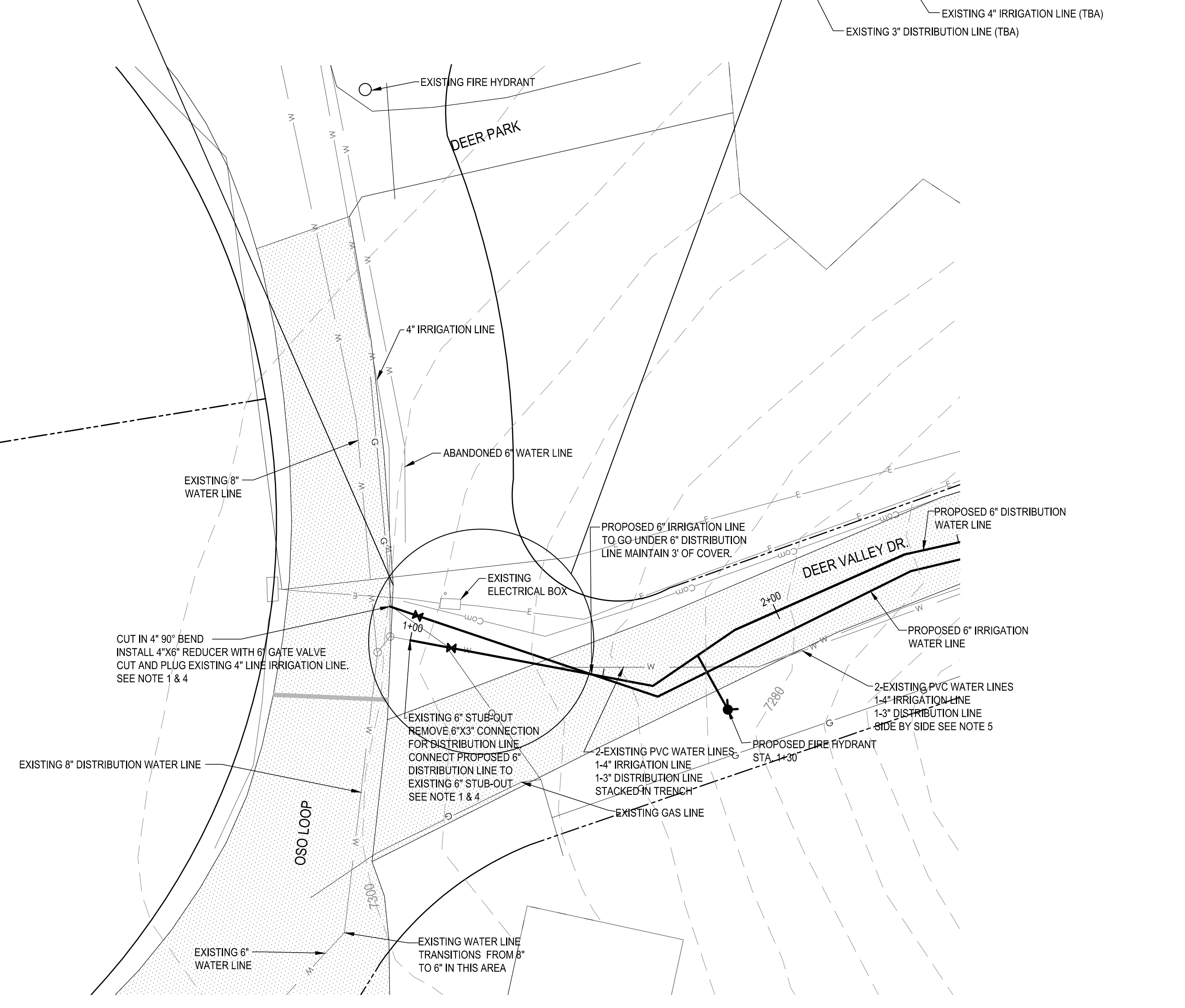
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B

A



- NOTES:
1. CONTRACTOR TO VERIFY EXISTING PIPE SIZE PRIOR ORDERING MATERIALS FOR TIE-INS.
 2. CONTRACTOR TO CUT AND PLUG EXISTING 6" IRRIGATION WATER LINE.
 3. CONTRACTOR TO VERIFY DEPTH OF EXISTING STORM DRAIN AND COORDINATE TO ALLOW PIPE INSTALLATION WITHOUT FITTINGS
 4. CONTRACTOR TO POT HOLE AS NEEDED TO LOCATE EXISTING DISTRIBUTION AND IRRIGATION WATER LINES.
 5. PROPOSED LINE IS APPROXIMATELY FOLLOWING SAME ALIGNMENT AND ELEVATION AS EXISTING WATER LINE. CONTRACTOR TO REMOVE AND DISPOSE EXISTING PIPE AS NEEDED TO BE ABLE TO INSTALL PROPOSED 6" LINE.

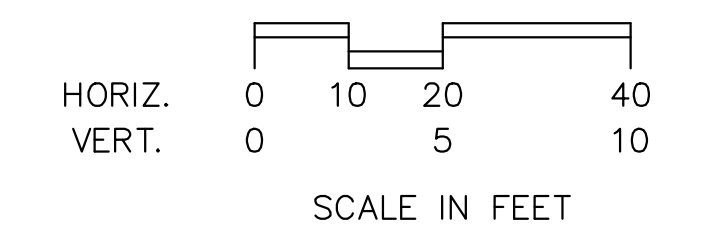


(A1) DEER VALLEY DR. AND OSO LOOP CP-101
1:20

**ALTO LAKES
WATER DISTRIBUTION
IMPROVEMENTS B**

**214 LAKESHORE
ALTO, NM 88312
(575) 336-4333**

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BY THE OWNER TO THE CONTRACTOR.



NO.	DATE	DESCRIPTION

ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

**DEER VALLEY DR
AND OSO LOOP
INTERSECTION DETAILS**

CP-302

PARKHILL SMITH & COOPER

Kevin D. Fredley

15/03/22
 D
 C
 B
 A
 1/22/2014

1 2 3 4 5

NOTES:

1. CONTRACTOR TO VERIFY EXISTING PIPE SIZE PRIOR ORDERING MATERIALS FOR TIE-INS.
2. CONTRACTOR TO CUT AND PLUG EXISTING 6" IRRIGATION WATER LINE.
3. CONTRACTOR TO VERIFY DEPTH OF EXISTING STORM DRAIN AND COORDINATE TO ALLOW PIPE INSTALLATION WITHOUT FITTINGS
4. CONTRACTOR TO POT HOLE AS NEEDED TO LOCATE EXISTING DISTRIBUTION AND IRRIGATION WATER LINES.
5. BOTH EXISTING WATER LINES ARE TO BE AT THE SAME ELEVATION AND NEXT TO ONE ANOTHER. CONTRACTOR TO REMOVE EXISTING PIPE AS NEEDED TO BE ABLE TO INSTALL PROPOSED 6" LINE.

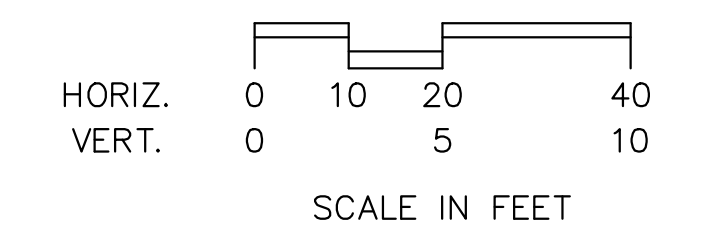
PSC & COOPER
 PARKHILL SMITH & COOPER

Kevin D. Fredley
 KEVIN D. FREDLEY
 NEW MEXICO
 18102
 PROFESSIONAL ENGINEER
 08/06/2014

**ALTO LAKES
 WATER DISTRIBUTION
 IMPROVEMENTS B**

**214 LAKESHORE
 ALTO, NM 88312
 (575) 336-4333**

PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS
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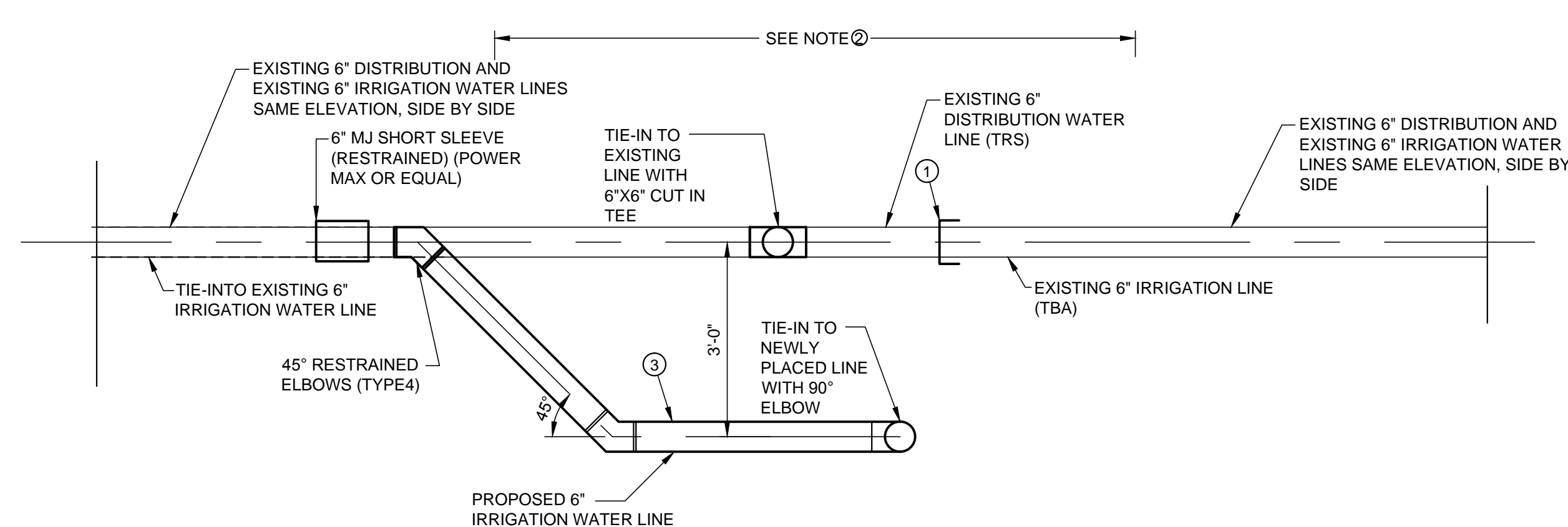
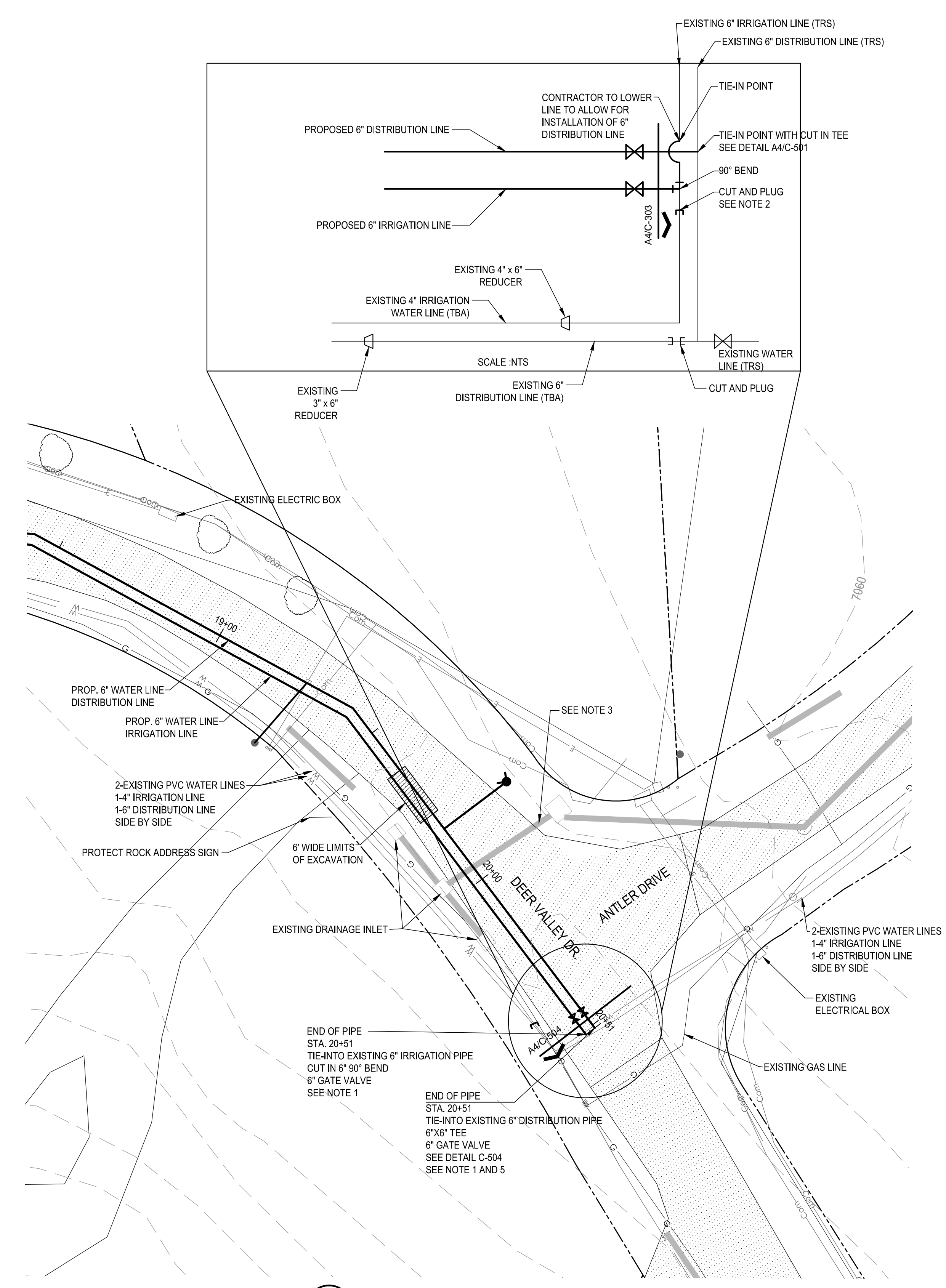


NO.	DATE	DESCRIPTION

ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

**DEER VALLEY DR
 AND ANTLER DR.
 INTERSECTION DETAILS**

CP-303

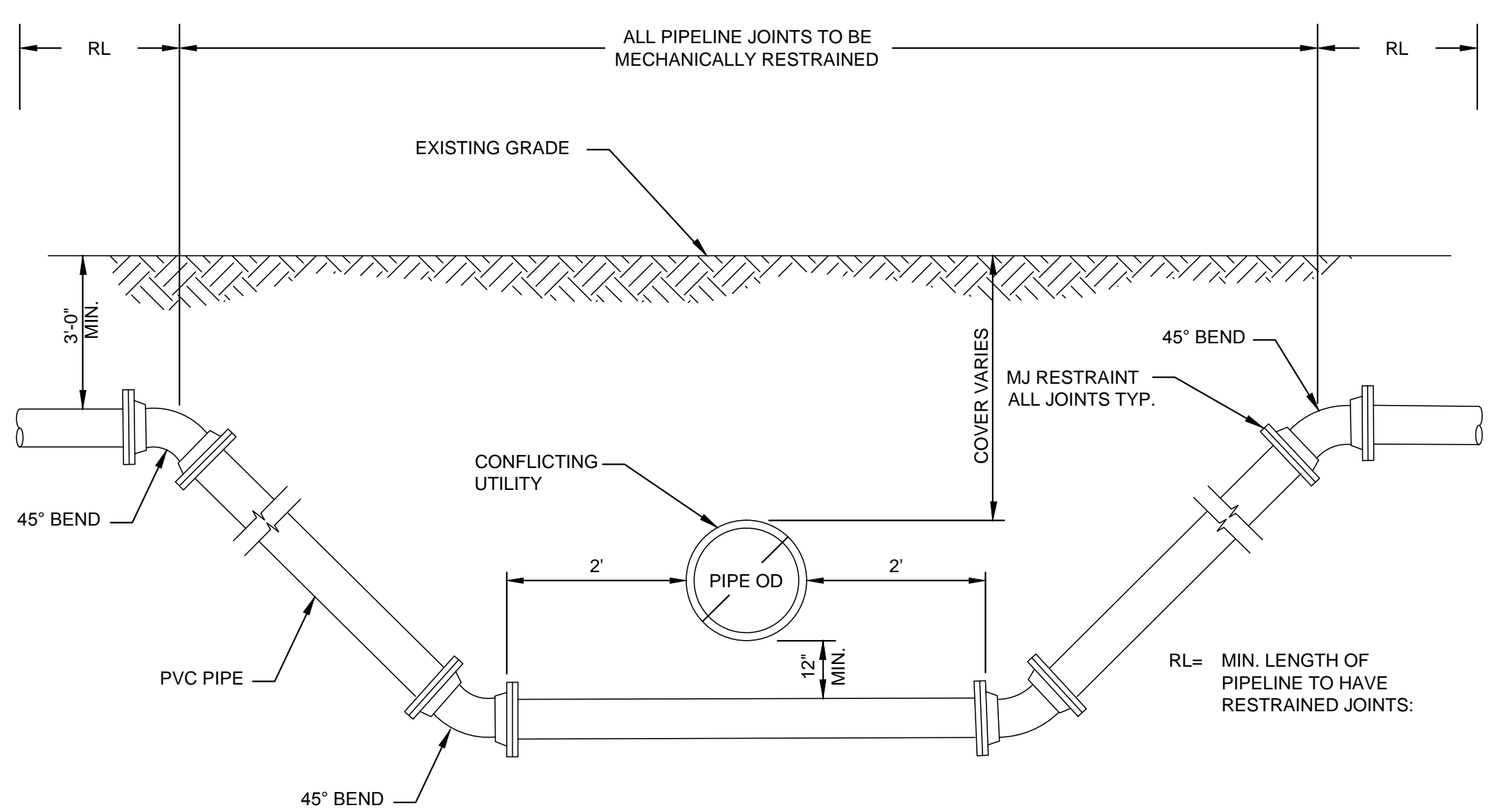


- CONSTRUCTION KEYED NOTES:**
- ① CUT AND PLUG EXISTING 6" IRRIGATION LINE.
 - ② REMOVE EXISTING 6" IRRIGATION LINE AS NECESSARY TO CONNECT TO NEW 6" DISTRIBUTION LINE TO EXISTING DISTRIBUTION LINE.
 - ③ CONTRACTOR TO LOWER THE 6" IRRIGATION LINE TO ALLOW TIE-IN TO EXISTING 6" DISTRIBUTION LINE

A4 TIE-IN DEER VALLEY AND ANTLER DR.
 NTS

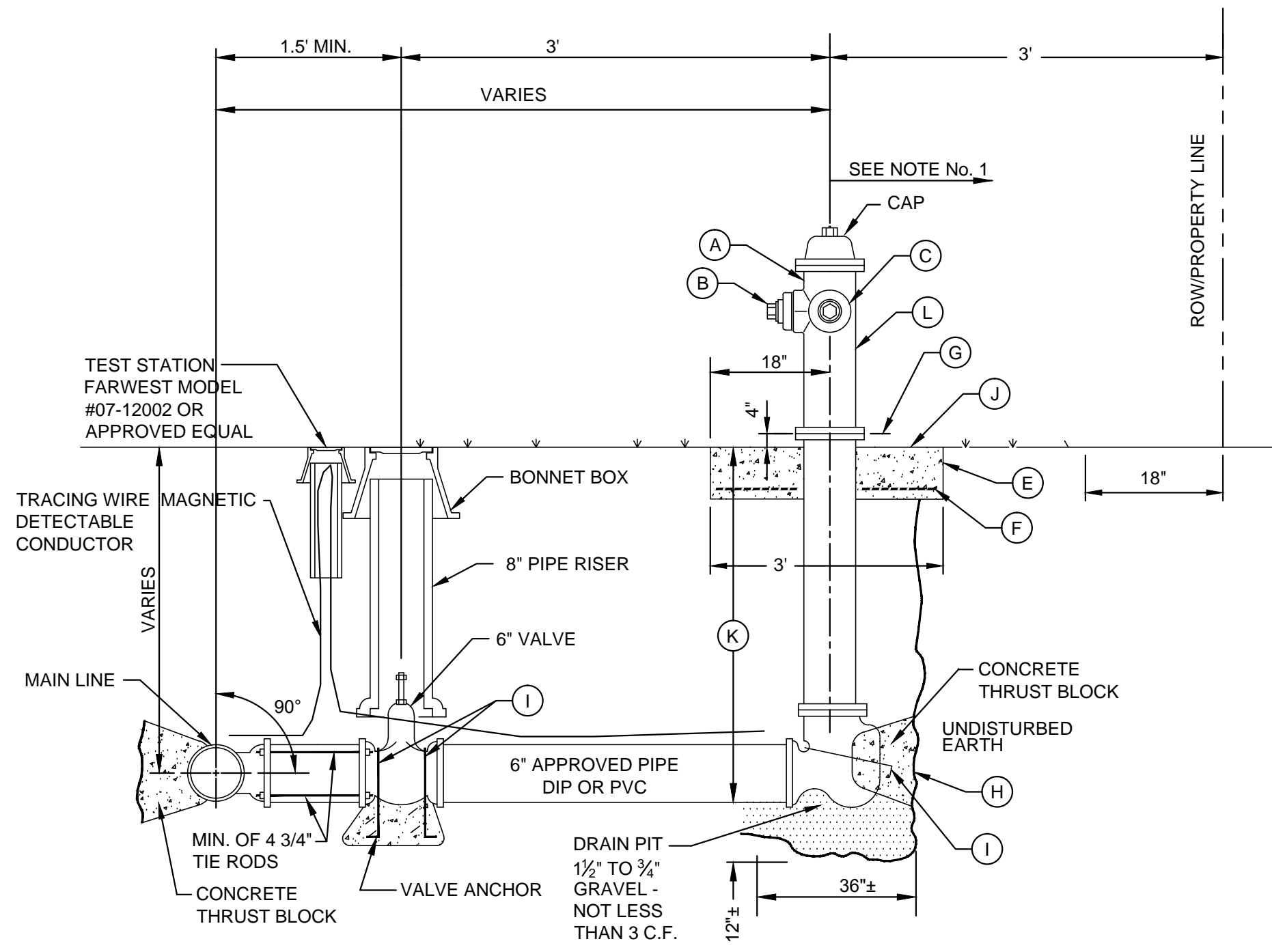
A1 DEER VALLEY DR. AND ANTLER DR. CP-103
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A1 TYPICAL UTILITY CROSSING
NO SCALE

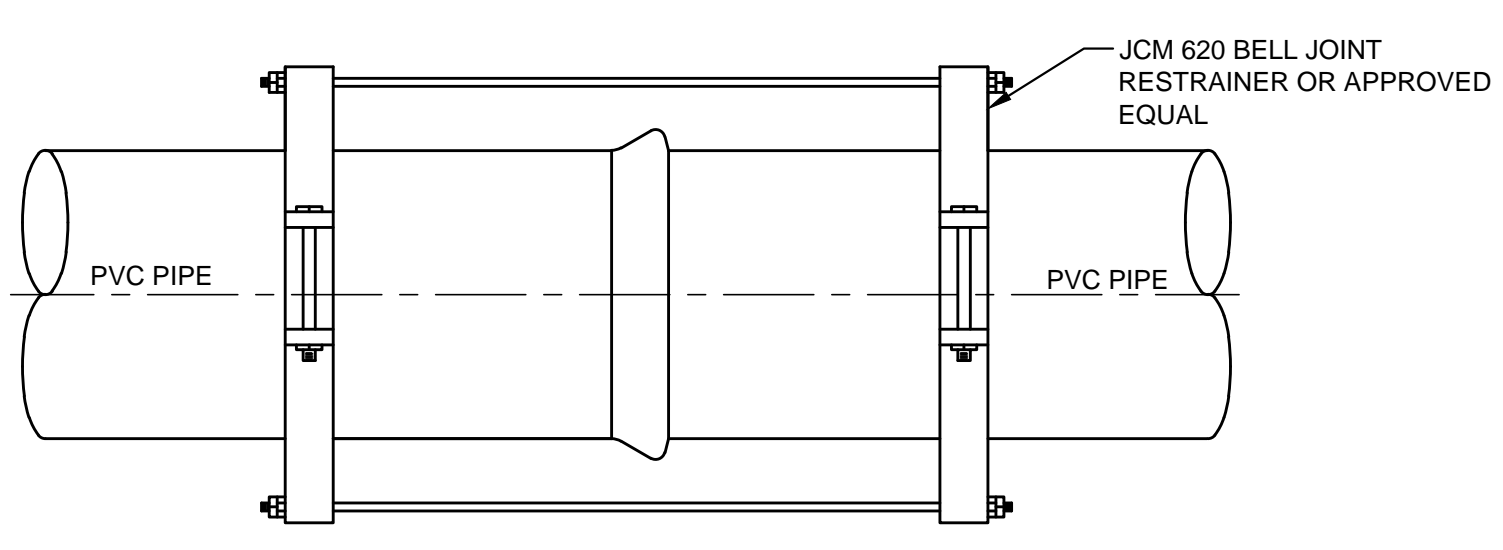
TEST PRESSURE	
150 PSI	300 PSI
RL (FT)	RL (FT)
26	51



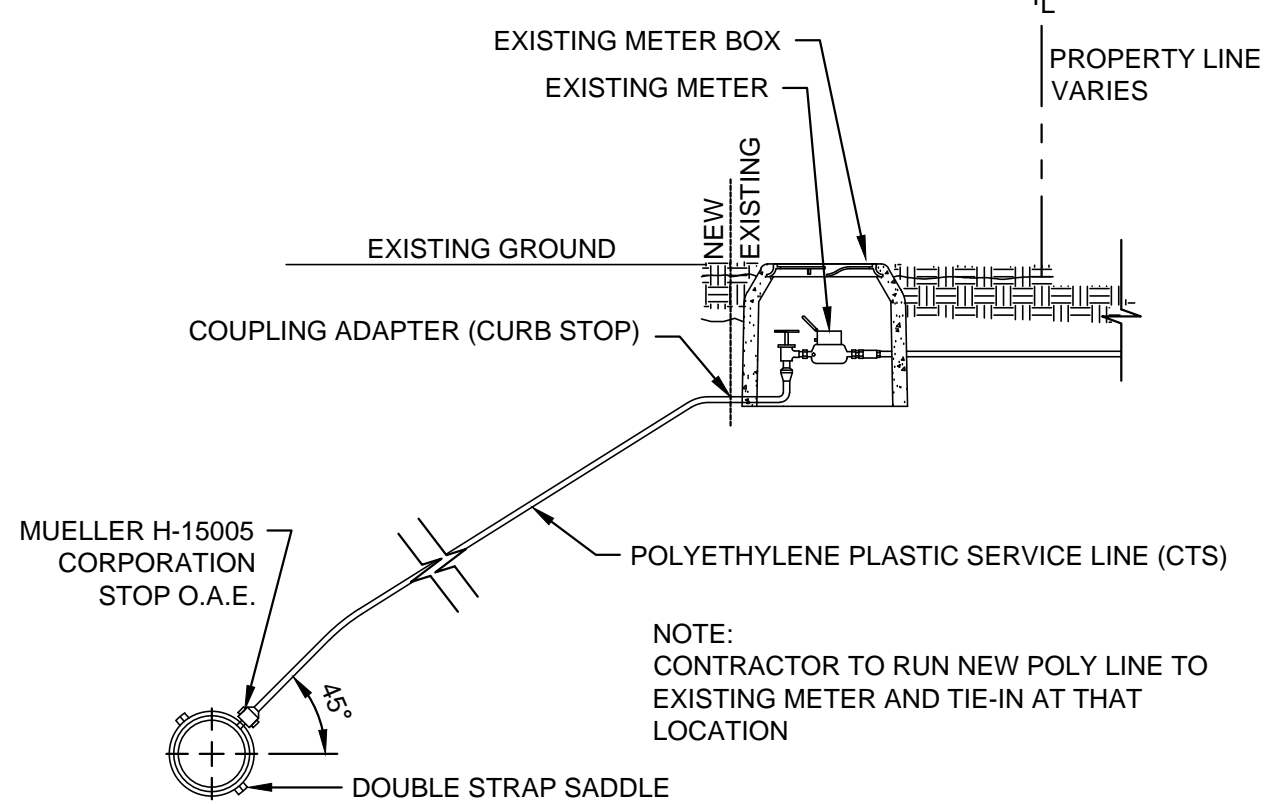
A2 FIRE HYDRANT INSTALLATION ON NEW MAIN
NO SCALE

- GENERAL NOTES:**
- NO OBSTRUCTIONS WILL BE PERMITTED WITHIN 5 FT. IN ALL DIRECTIONS OF FIRE HYDRANT. FIRE HYDRANT SHALL NOT BE PLACED IN WHEEL CHAIR RAMP OR DRIVEWAY.
 - FIRE HYDRANT SHALL BE LOCATED AT THE BEGINNING OF CURB RETURN OR AT THE PROPERTY LINE COMMON TO ADJOINING LOTS, UNLESS OTHERWISE SHOWN ON PLANS.
 - VALVE MAY BE CONNECTED TO TEE AT MAIN LINE. USE FLANGED MECHANICAL JOINT ENDS. WHERE SPOOL IS REQUIRED BETWEEN TEE AND VALVE, USE FLANGED MECHANICAL ENDS WITH 3/4" DIAMETER TIE RODS.
 - COMPLY WITH REQUIREMENTS OF AWWA C-502, DRY BARREL FIRE HYDRANTS AND AWWA C-550, PROTECTIVE EPOXY INTERIOR COATINGS FOR VALVES AND HYDRANTS.
 - BOLLARDS NOT SHOWN SEE DETAIL A7 THIS SHEETS FOR LAYOUT.

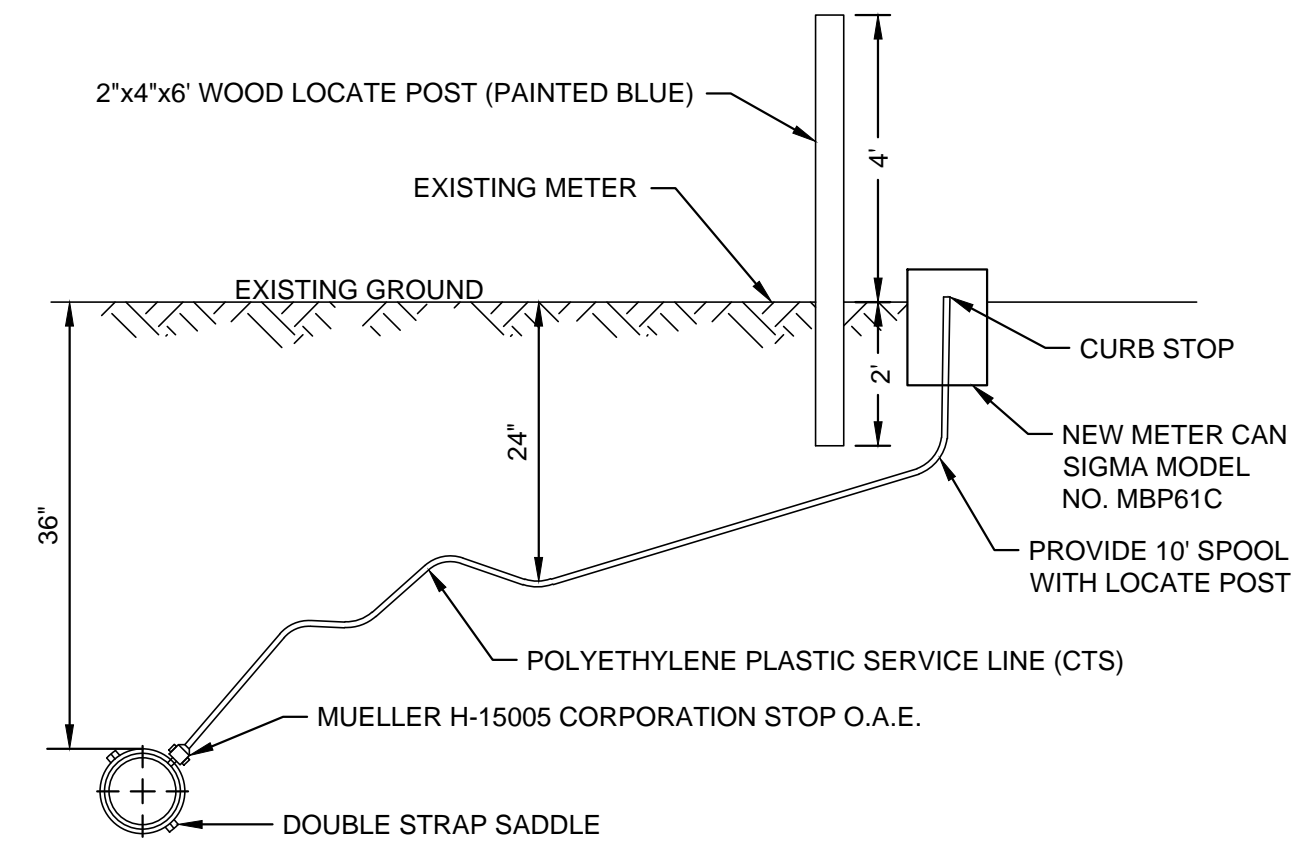
- CONSTRUCTION KEY NOTES:**
- FIRE HYDRANT PER SPEC'S.
 - PUMPER NOZZLE 4 1/2" TO BE FACING THE TRAVELED WAY, UNLESS OTHERWISE NOTED IN THE PLANS.
 - HOSE NOZZLE 2 1/2".
 - 1/2" PREMOLDED EXPANSION JOINT WITH 1" TOP FILLER.
 - 3x3x6" CONC. SQ. PAD, TO BE CONSTRUCTED AROUND FIRE HYDRANT'S CENTER LINE WHEN NOT LOCATED WITHIN SIDEWALK OR CONC. AREA.
 - #10, 6/6 WWF.
 - CONTROLLED ELEVATION LINE, LEVEL IN ALL DIRECTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING TOP FLANGE OF THE HYDRANT TO CONTROLLED ELEVATION.
 - CONC. THRUST BLOCK, APPROX. 2'x2'x3' TO BE POURED AGAINST UNDISTURBED EARTH, F.H. WEEP HOLE MUST BE UNOBSTRUCTED.
 - 2"x1/4" STEEL ANCHOR PINS.
 - TOP OF SLAB SHALL BE AT CURB LEVEL 4" BELOW THE BREAK LINE OF THE HYDRANT. UNDER SPECIAL CONDITIONS THE ENGINEER MAY ALLOW VARIATIONS TO THIS CONSTRUCTION.
 - MAXIMUM OF ONE (1) SPOOL EXTENSION ALLOWED TO MAINTAIN THE CONTROLLED ELEVATION LINE TO TOP OF SLAB. ADDITIONAL ADJUSTMENT MUST BE MADE WITH OFFSETS & FITTINGS AS NEEDED.
 - CONTRACTOR TO HAVE LICENSED N.M. SURVEYOR LOCATE PROPERTY LINE AND PLACE F.H. ACCORDINGLY.



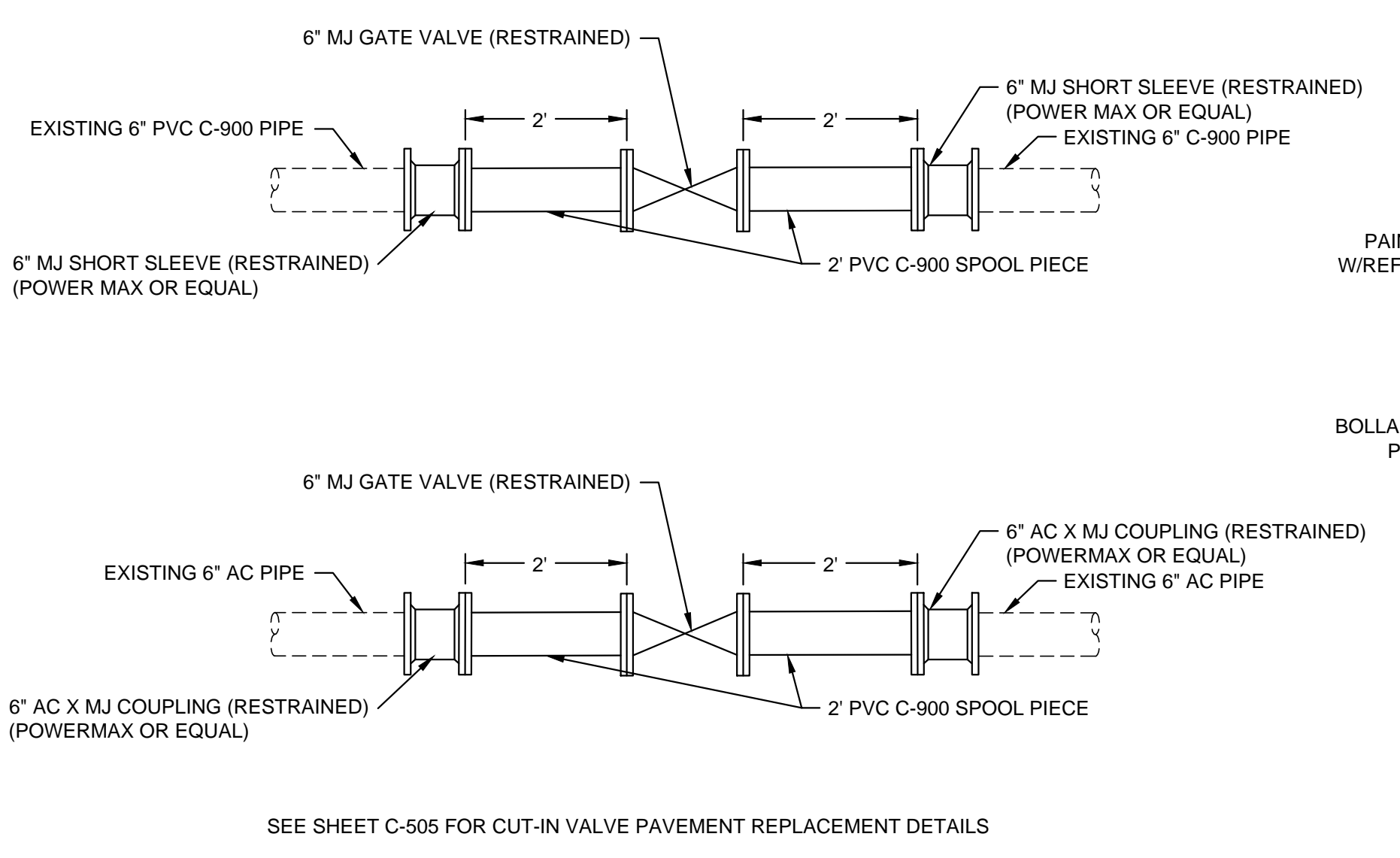
C1 PVC BELL HARNESS
NO SCALE



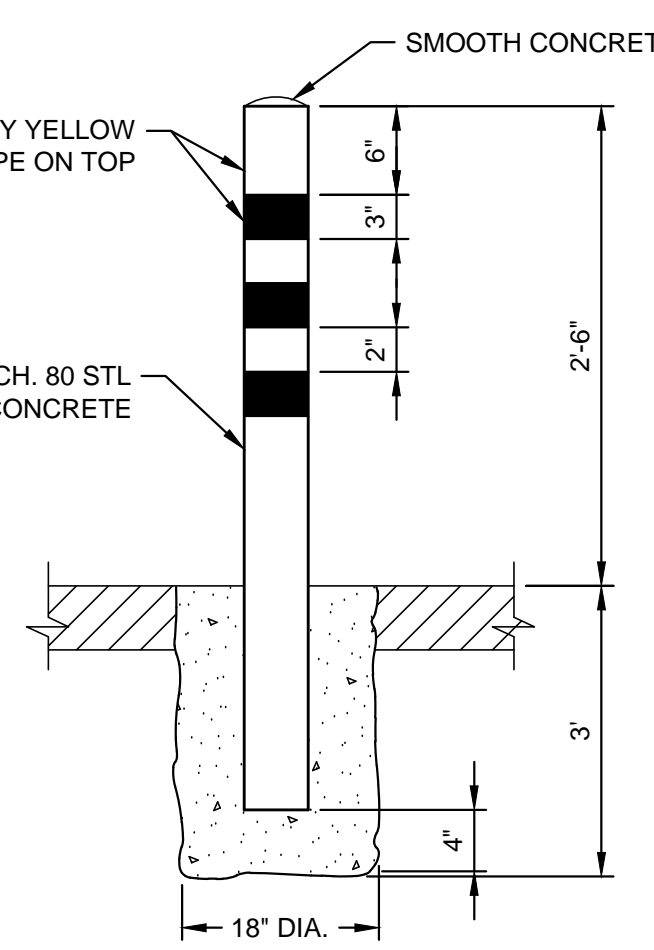
B3 EXISTING METER BOX WITH NEW SERVICE CONNECTION
NO SCALE



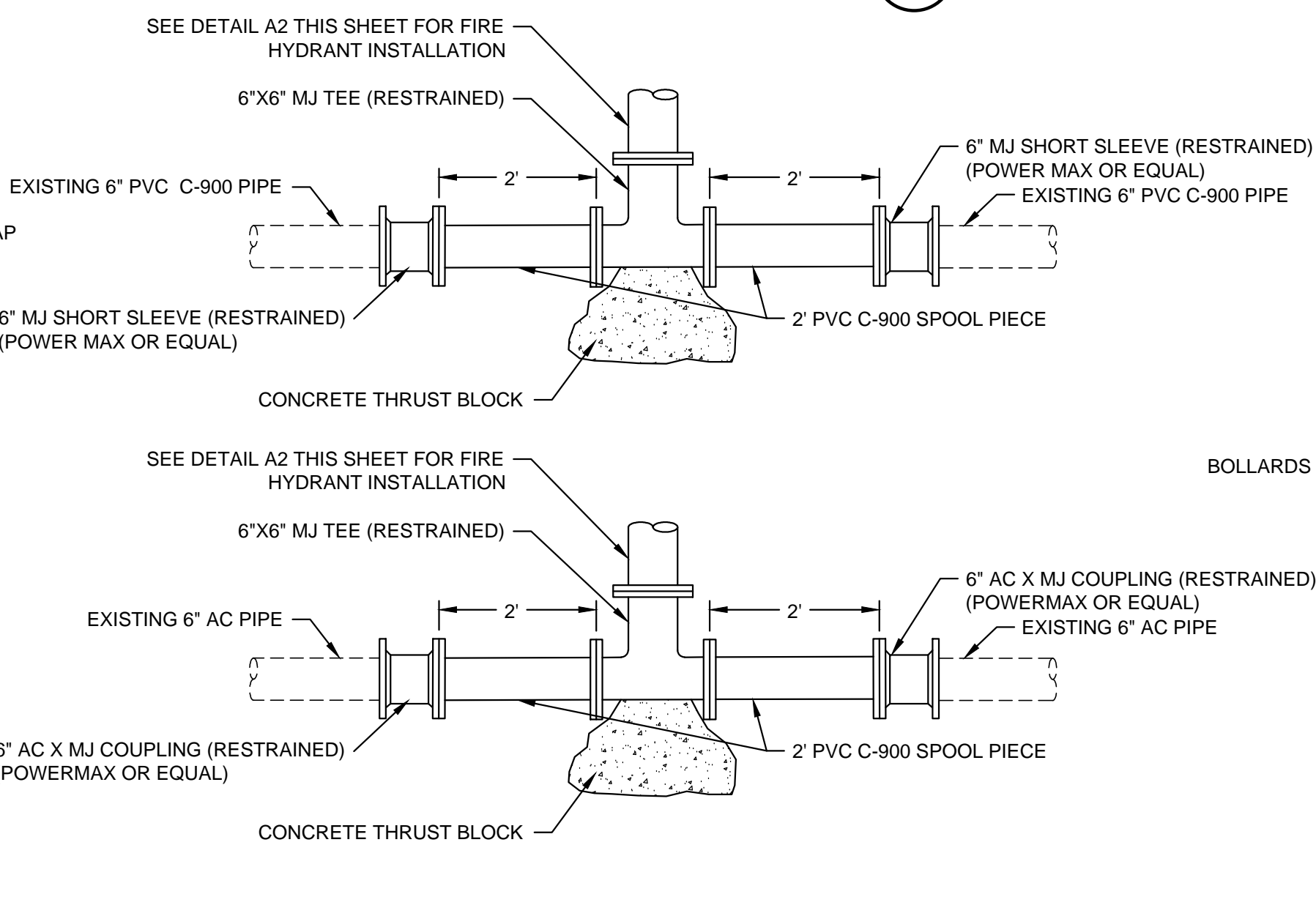
B4 NEW SERVICE CONNECTION WITHOUT METER
NO SCALE



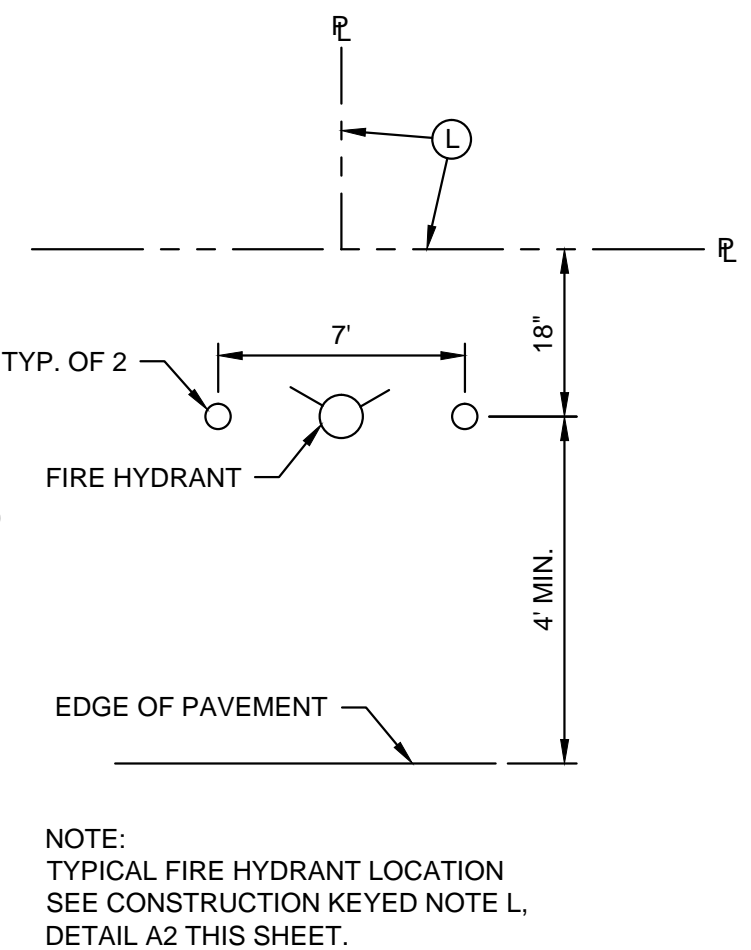
B1 CUT-IN GATE VALVES
NO SCALE



A3 BOLLARD DETAIL
NO SCALE



A4 FIRE HYDRANT INSTALLATION ON EXISTING MAIN (CUT-IN TEE)
NO SCALE



A5 BOLLARD PLACEMENT
NO SCALE

NOTE:
TYPICAL FIRE HYDRANT LOCATION
SEE CONSTRUCTION KEYED NOTE L,
DETAIL A2 THIS SHEET.

**ALTO LAKES
WATER DISTRIBUTION
IMPROVEMENTS B**

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ALTO, NM 88312
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NO.	DATE	DESCRIPTION

ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

**FIRE HYDRANT,
SERVICE CONNECTIONS
AND CUT-IN
VALVE DETAILS**

Refs: XTB-5256.13

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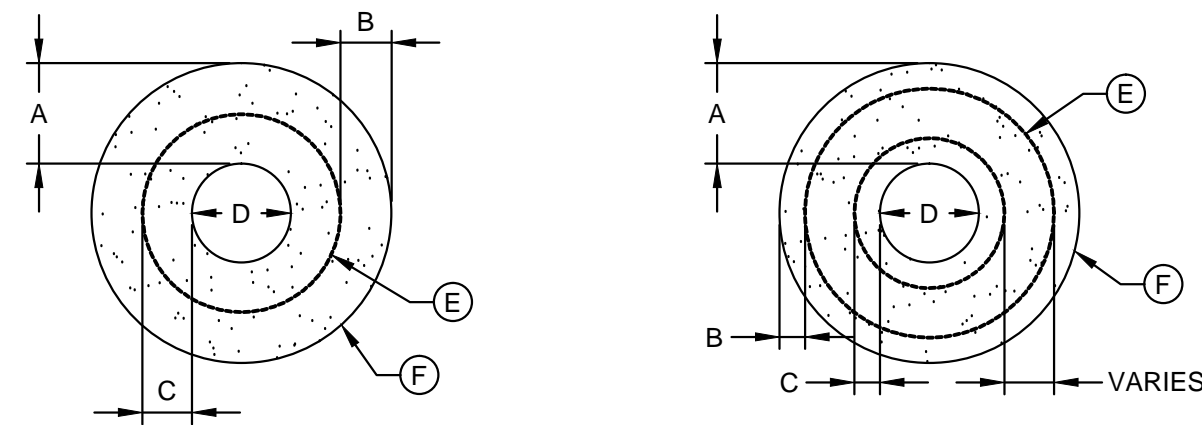
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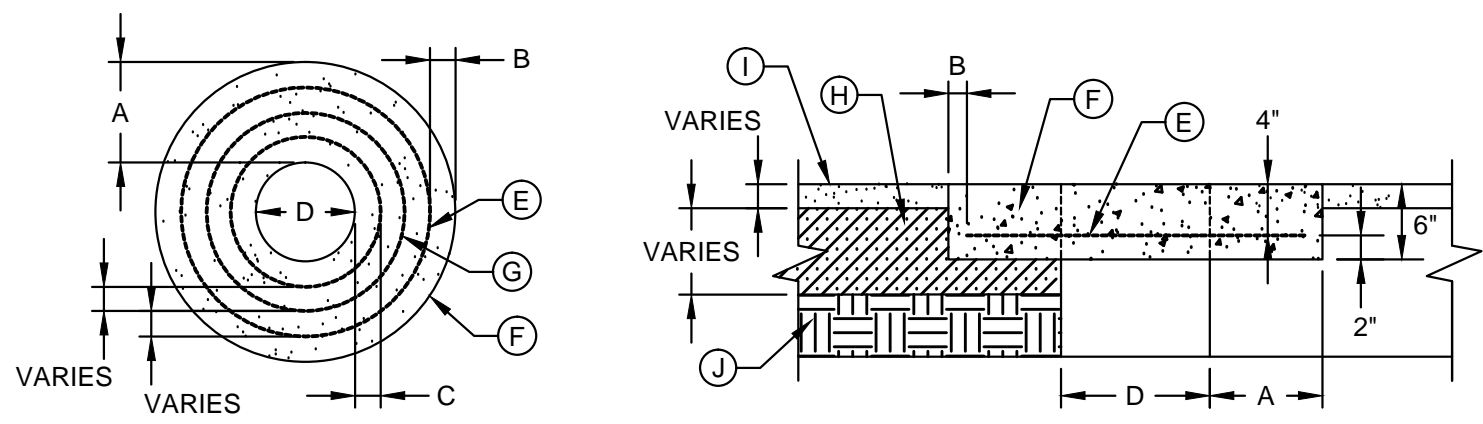
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PLAN VIEW - SINGLE REBAR

PLAN VIEW - TWO REBARS



PLAN VIEW - THREE REBARS

SECTION VIEW - ASPHALT JUNCTURE

SIZING SCHEDULE				
NUMBER OF #3 REINFORCING STEEL BARS	"A" MINIMUM CONCRETE HORIZONTAL DIMENSION FROM PENETRATION	"B" MINIMUM CLEARANCE FROM EDGE OF CONCRETE COLLAR TO CENTER OF NEAREST REBAR	"C" MINIMUM CLEARANCE FROM PENETRATION EDGE TO CENTER OF NEAREST REBAR	"D" DIAMETER OF PENETRATION
1	6"	1 1/2"	4 1/2"	0" TO 6"
2	6"	1 1/2"	1 1/2"	6.1" TO 18"

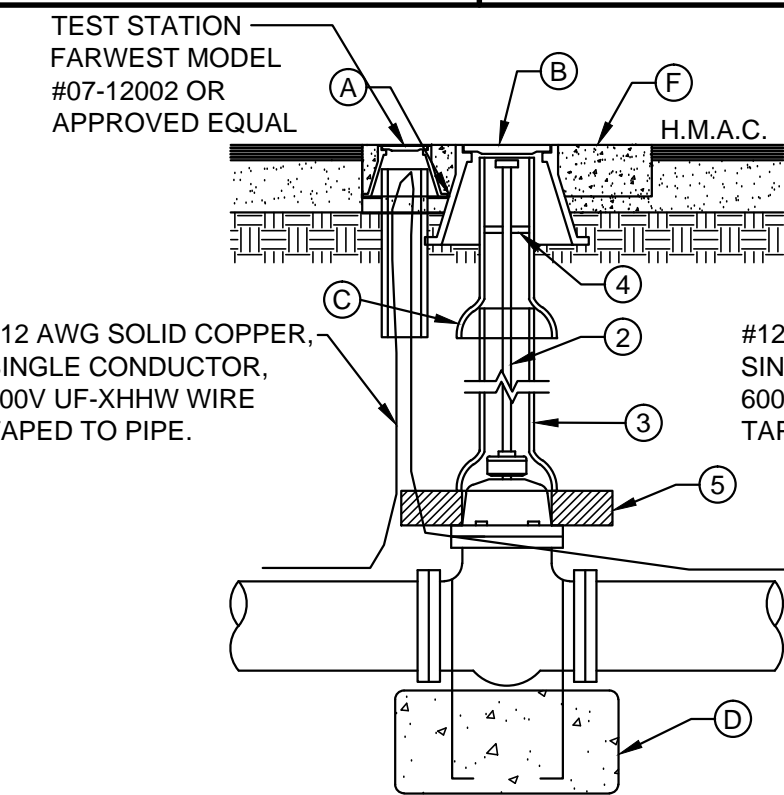
C2 CONCRETE COLLAR NO SCALE

GENERAL NOTES:

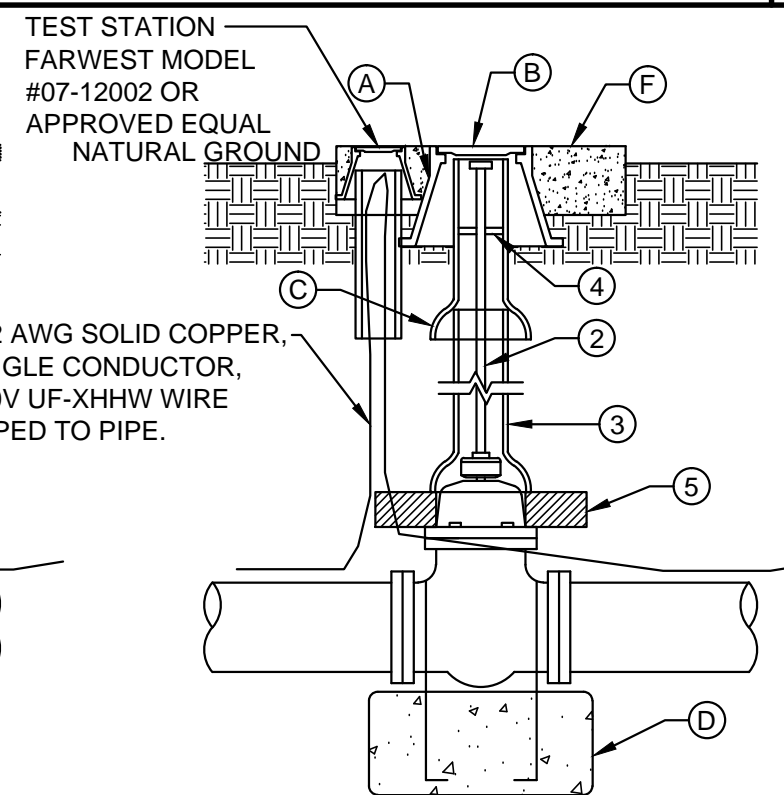
1. THE CONCRETE COLLAR SHOULD BE CAST IN-PLACE CONCRETE. (MINIMUM 28 DAY COMPRESSIVE STRENGTH 4000 PSI. HIGH EARLY CONCRETE IS REQUIRED)
2. TOPS OF CONCRETE COLLAR SHALL BE FLUSH WITH ROADWAY SURFACE OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
3. ANY DISTURBED SUBGRADE UNDER THE CONCRETE COLLAR SHALL BE COMPACTED TO 95% DENSITY ± 3% OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557.
4. ANY DISTURBED BASE COARSE UNDER THE CONCRETE COLLAR SHALL BE COMPACTED TO 100% DENSITY ± 2% OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557.
5. PROVIDE A MINIMUM OF 1 1/2" OF CONCRETE COVER FOR ALL REINFORCEMENT STEEL.
6. REINFORCING SHALL MEET ASTM C-478
7. NO. 3 REINFORCING STEEL HOOPS SHALL BE SPACED EQUALLY.

CONSTRUCTION KEY NOTES:

- A. REFER TO SCHEDULE
- B. REFER TO SCHEDULE
- C. REFER TO SCHEDULE
- D. REFER TO SCHEDULE
- E. #3 REINFORCING STEEL TYP.
- F. CONCRETE COLLAR.
- G. #3 REINFORCING STEEL EQUALLY SPACED.
- H. COMPACTED BASE COARSE.
- I. PAVEMENT.
- J. COMPACTED SUBGRADE.



ASPHALT ROADWAY



UNPAVED AREAS

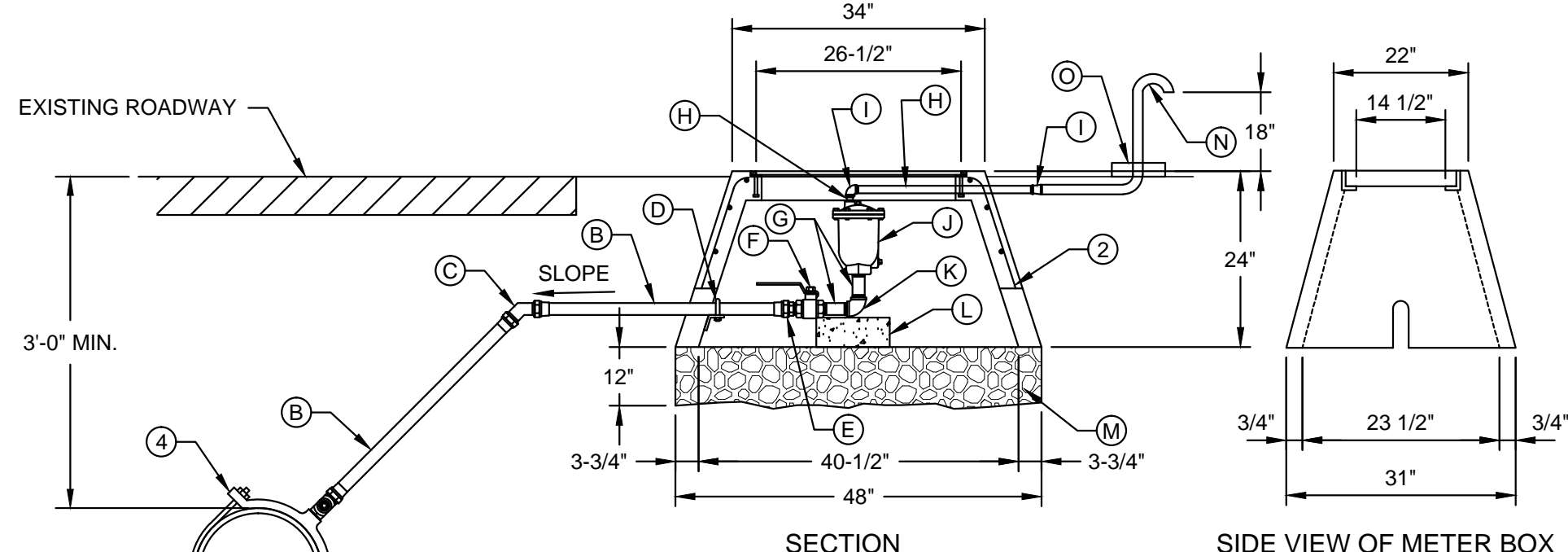
GENERAL NOTES:

1. VALVE TYPE AND VALVE ENDS SHALL BE AS SHOWN ON THE PLANS.
2. ALL VALVES SHALL BE PROVIDED WITH SOLID 2" SQUARE AWWA NUT. NUT IS TO INDICATE DIRECTION OF ROTATION TO OPEN VALVE.
3. 8" DIA. MINIMUM VITRIFIED CLAY OR SDR 35 P.V.C. PIPE, PIPE SHALL NOT REST ON VALVE BODY.
4. 1/4" THICK STEEL TRASH RING VALVE BOX INSIDE DIAMETER MINUS 1/8"
5. MINIMUM 2 1/2" CONCRETE OR BRICK ALL AROUND.
6. CLEAN BONNET BOX OF ALL DEBRIS AND SOIL.
7. VALVE SHALL BE WRAPPED IN POLYETHYLENE

CONSTRUCTION KEY NOTES:

- A. BONNET BOX
- B. BONNET BOX COVER PAINTED BLUE
- C. FINAL EXTENSION TO BONNET BOX SHALL BE WITH BELL AND SPIGOT ENDS (SDR 35 P.V.C. SPOOL).
- D. CONCRETE VALVE ANCHOR
- E. CONCRETE COLLAR FLUSH WITH TOP OF H.M.A.C.
- F. CONCRETE APRON FLUSH WITH BONNET BOX AND 2" ABOVE NATURAL GROUND. PAINTED WHITE

D4 GATE VALVE INSTALLATION NO SCALE



SECTION

SIDE VIEW OF METER BOX

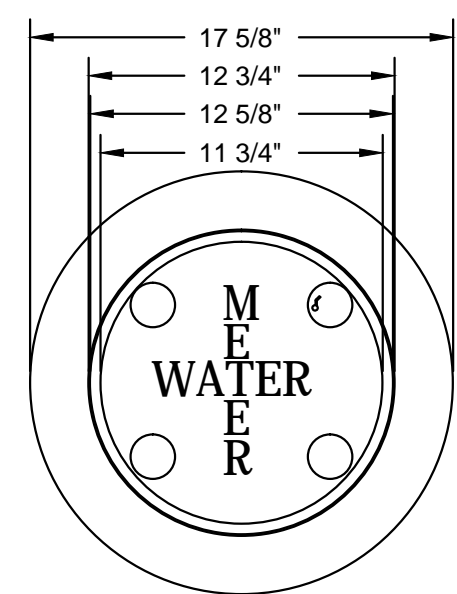
GENERAL NOTES:

1. INSTALLATION SHALL GENERALLY BE FOR A MAIN-LINE 16" AND SMALLER (1" C.A.V.). INSTALLATION OF OTHER SIZED VALVES IS SIMILAR.
2. VALVE VAULT SHALL BE TYPE "SMALL SLOPE METER BOX". AS MANUFACTURED BY WESTERN PRECAST (EL PASO, TX.) OR APPROVED EQUAL. SET TOP OF VAULT SLIGHTLY HIGHER THAN SURROUNDING GROUND OR AT CURB LEVEL.
3. VALVE AND PIPE SIZES AS SPECIFIED.
4. 1" DOUBLE STRAP SERVICE SADDLE.

CONSTRUCTION KEY NOTES:

- A. MAINLINE, SIZE AS SPECIFIED.
- B. 1" COPPER PIPE, (TYPE K)
- C. 1" FLARED BRONZE 45° ELBOW.
- D. ANCHOR PIPING TO VALVE VAULT WITH 3"x3"x1/2" ANGLE & 3/8" STRAP.
- E. 1" FLARED BY MALE THREADED BRONZE COUPLING.
- F. 1" FEMALE THREADED BRASS BALL VALVE.
- G. 1" MALE THREADED BRASS NIPPLE.
- H. 1" MALE THREADED BRASS NIPPLE.
- I. 1" X 2" REDUCER.
- J. 1" COMBINATION AIR VALVE APCO 142 OR APPROVED EQUAL.
- K. 1" FEMALE THREADED BRONZE 90° ELBOW.
- L. VALVES INSTALLED WITH CONCRETE SUPPORTS AS REQUIRED.
- M. GRAVEL FILL.
- N. 2" VENT PIPE WITH S.S. BUG SCREEN. TRANSITION FROM 1" VENT PIPE BELOW GROUND TO 18" VENT PIPE ABOVE GROUND. PAINTED BLUE. PIPE TO BE SCH. 40 STEEL.
- O. 1"x1"x4" CONCRETE COLLAR.

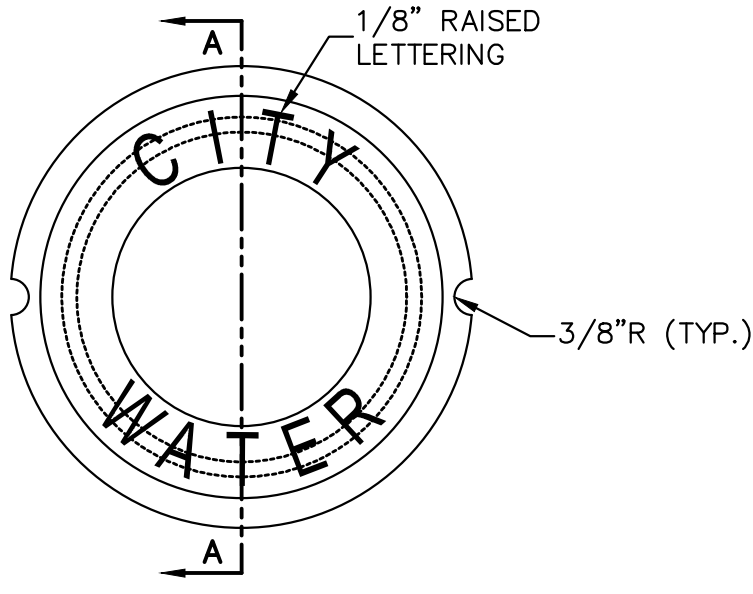
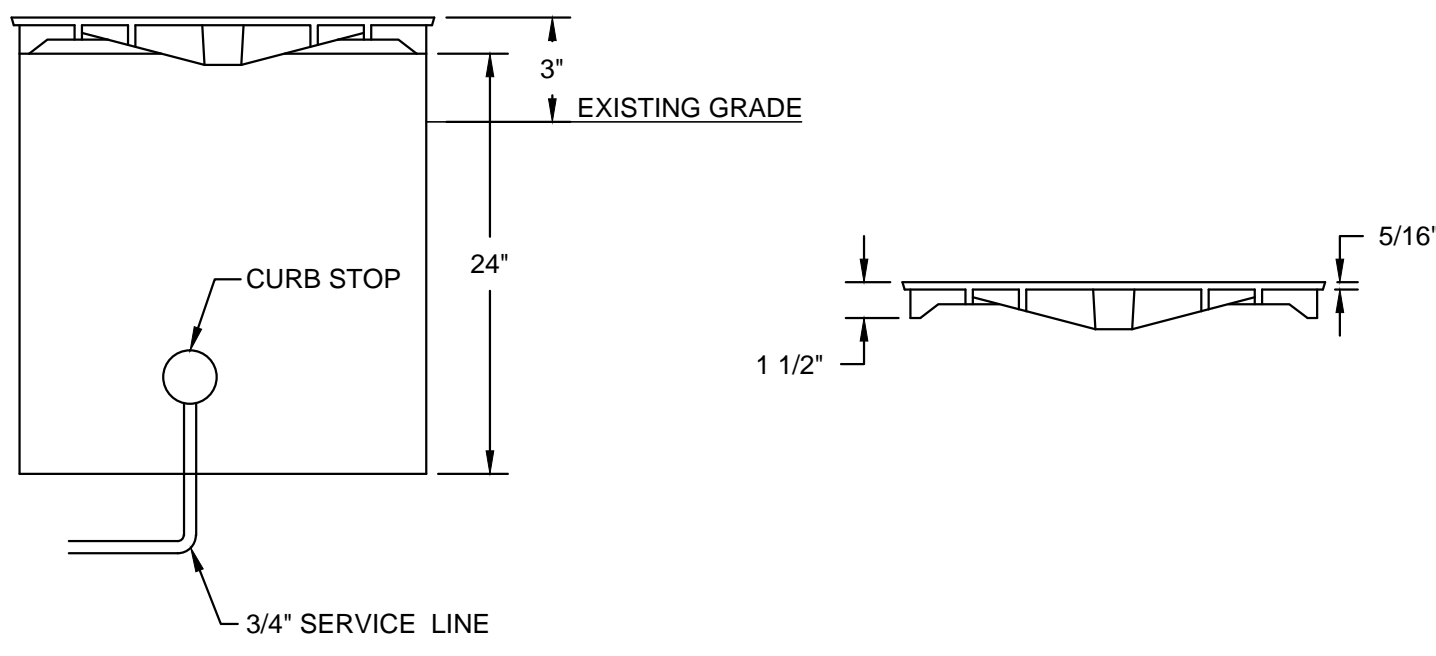
C4 COMBINATION AIR RELEASE VALVE NO SCALE



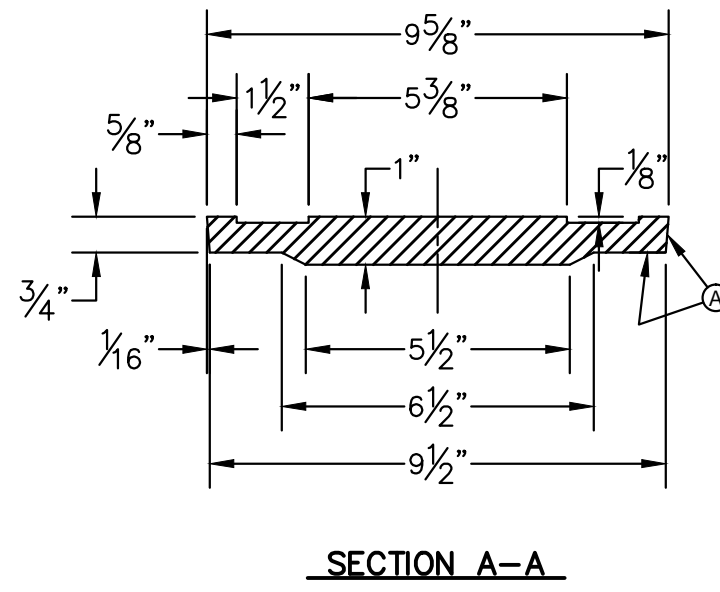
A1 METER BOX TYPE A NO SCALE

GENERAL NOTES:

1. INSTALL TO 3" ABOVE EXISTING GRADE.
2. CURB STOP SHALL BE IN LINE WITH THE INLET/OUTLET PORTS OF THE METER BOX.
3. METER BOXES SHALL NOT BE INSTALLED UNDER SIDEWALKS, DRIVEWAYS, OR PROPOSED ABOVE GROUND STRUCTURES.
4. CONTRACTOR TO COORDINATE PROPOSED LOCATION OF METER BOXES WITH FIELD ENGINEER AND ALW&SD PRIOR TO PLACEMENT
5. METER BOX TO BE SIGMA MBP61

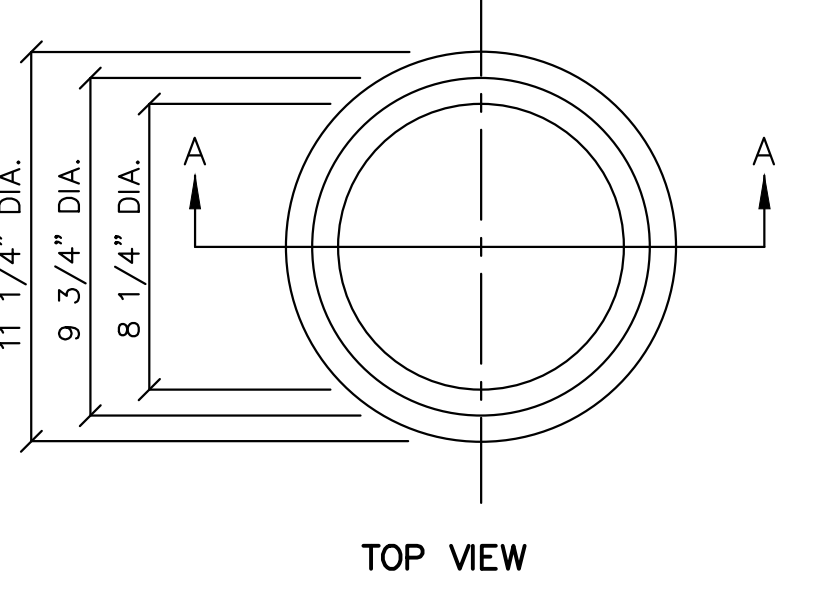


A2 BONNET BOX COVER NO SCALE

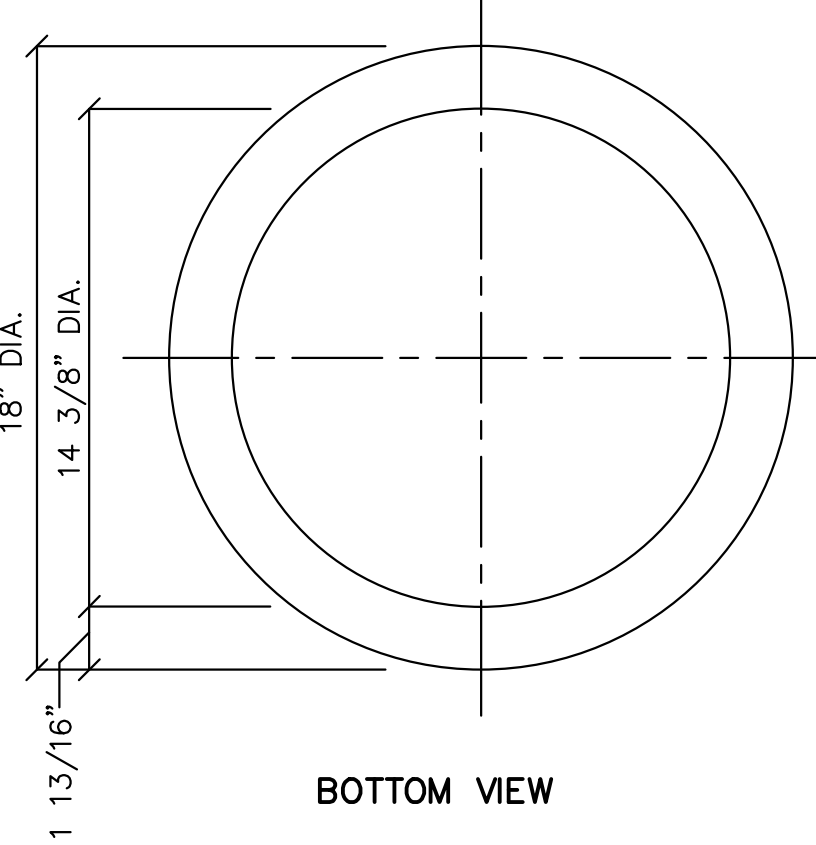


- GENERAL NOTES:
1. CASTINGS TO SMOOTH AND VOID OF AIR HOLES.
 2. WEIGHT OF COVER IS 10 POUNDS.

- CONSTRUCTION KEY NOTES:
- A. TO BE ROUGH GROUND OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.

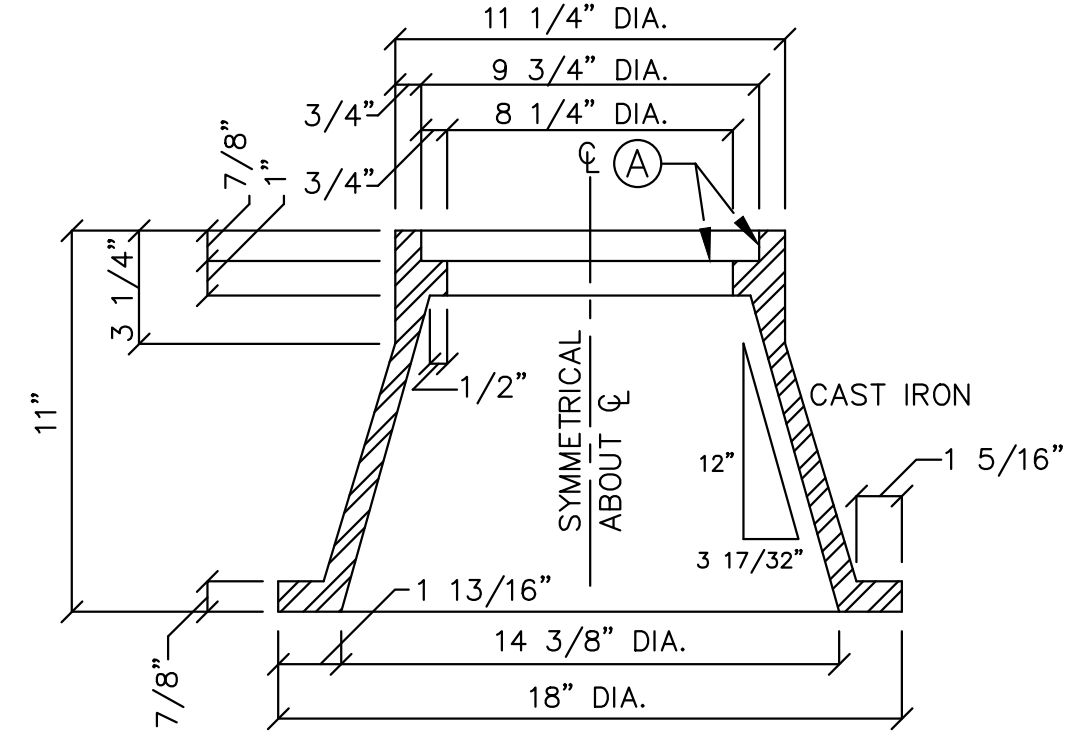


TOP VIEW



BOTTOM VIEW

A3 BONNET BOX NO SCALE



SECTION A-A

GENERAL NOTES:

1. CASTING TO BE SMOOTH AND VOID OF AIR HOLES.
2. WEIGHT OF BONNET BOX IS 95 POUNDS.

CONSTRUCTION KEY NOTES:

- A. TO BE ROUGH GROUND OF ANY IRREGULARITIES THAT WOULD PREVENT A SNUG FIT.

PSC & COOPER

Kevin D. Fredley

KEVIN D. FREDLEY
NEW MEXICO
18102
PROFESSIONAL ENGINEER

08/06/2014

PARKHILL SMITH & COOPER

ALTO LAKES WATER DISTRIBUTION IMPROVEMENTS B

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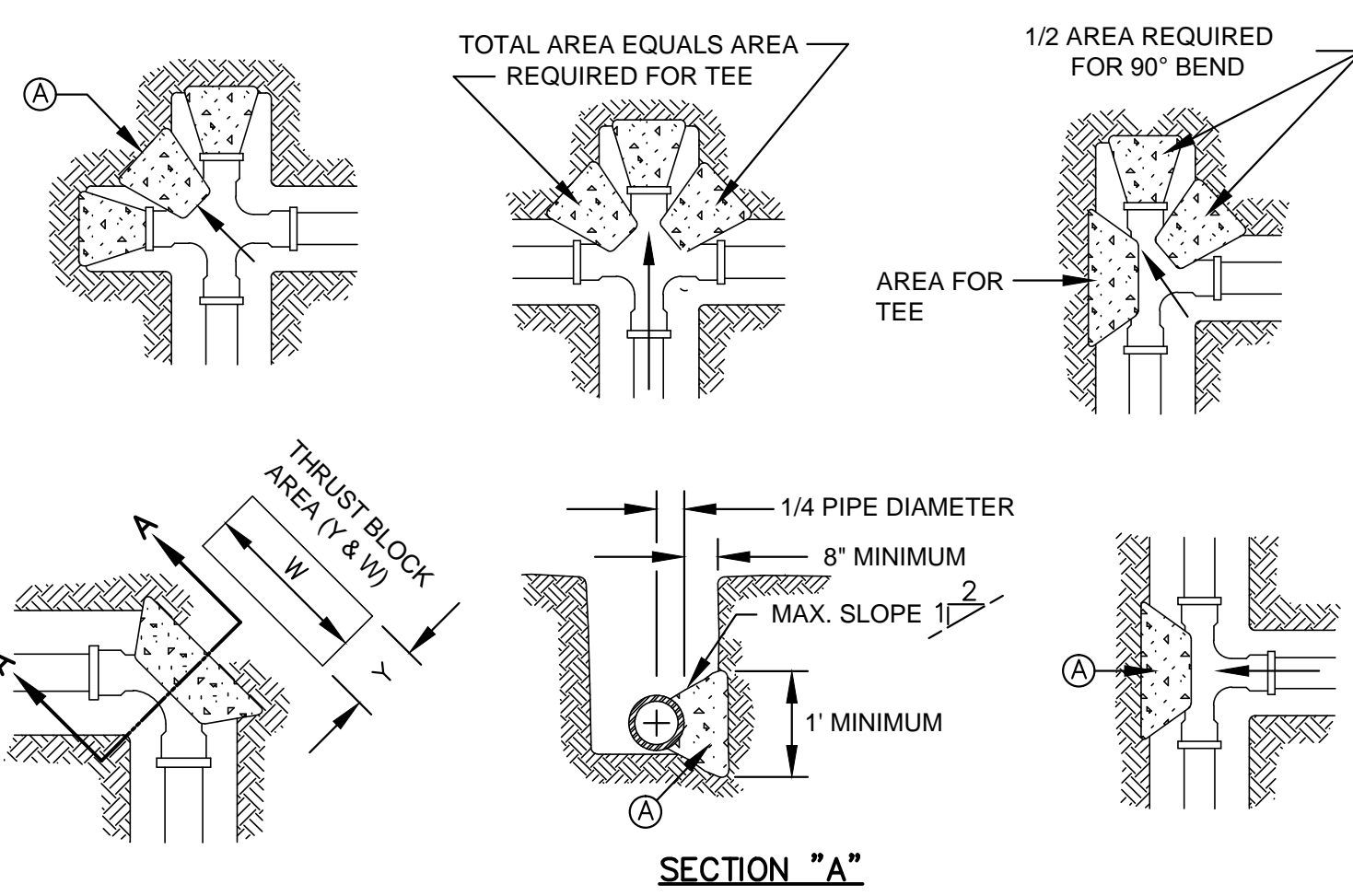
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NO.	DATE	DESCRIPTION

ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

VALVES, METER BOX, AND C.A.V. DETAILS

Xrefs: XTB-5256.13
 1515/29
 4/7/2014
 Drawing File: X:\2013\5256.13\BIM_CAD\00_SHEETS\C-503-5256.13.dwg (ONPFE)
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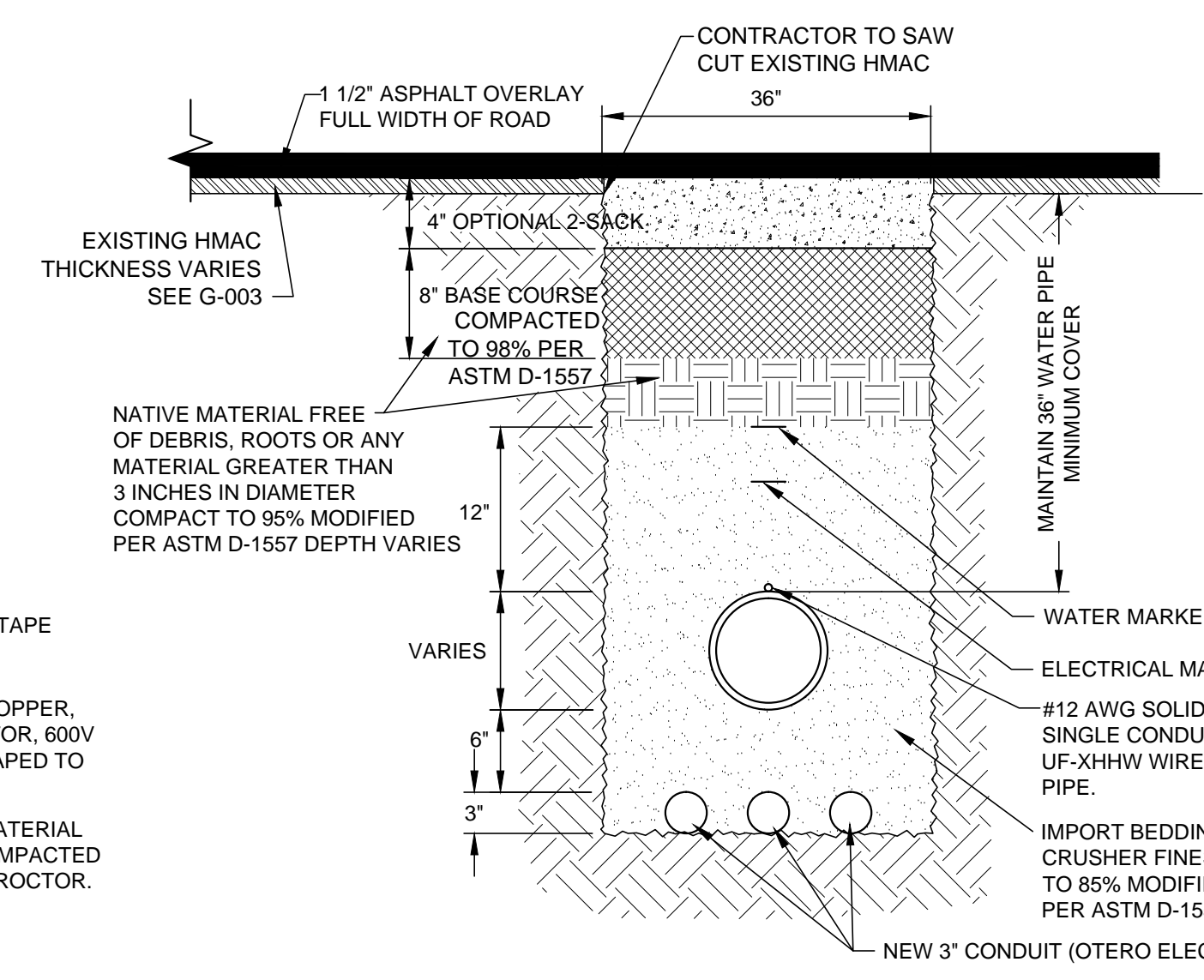
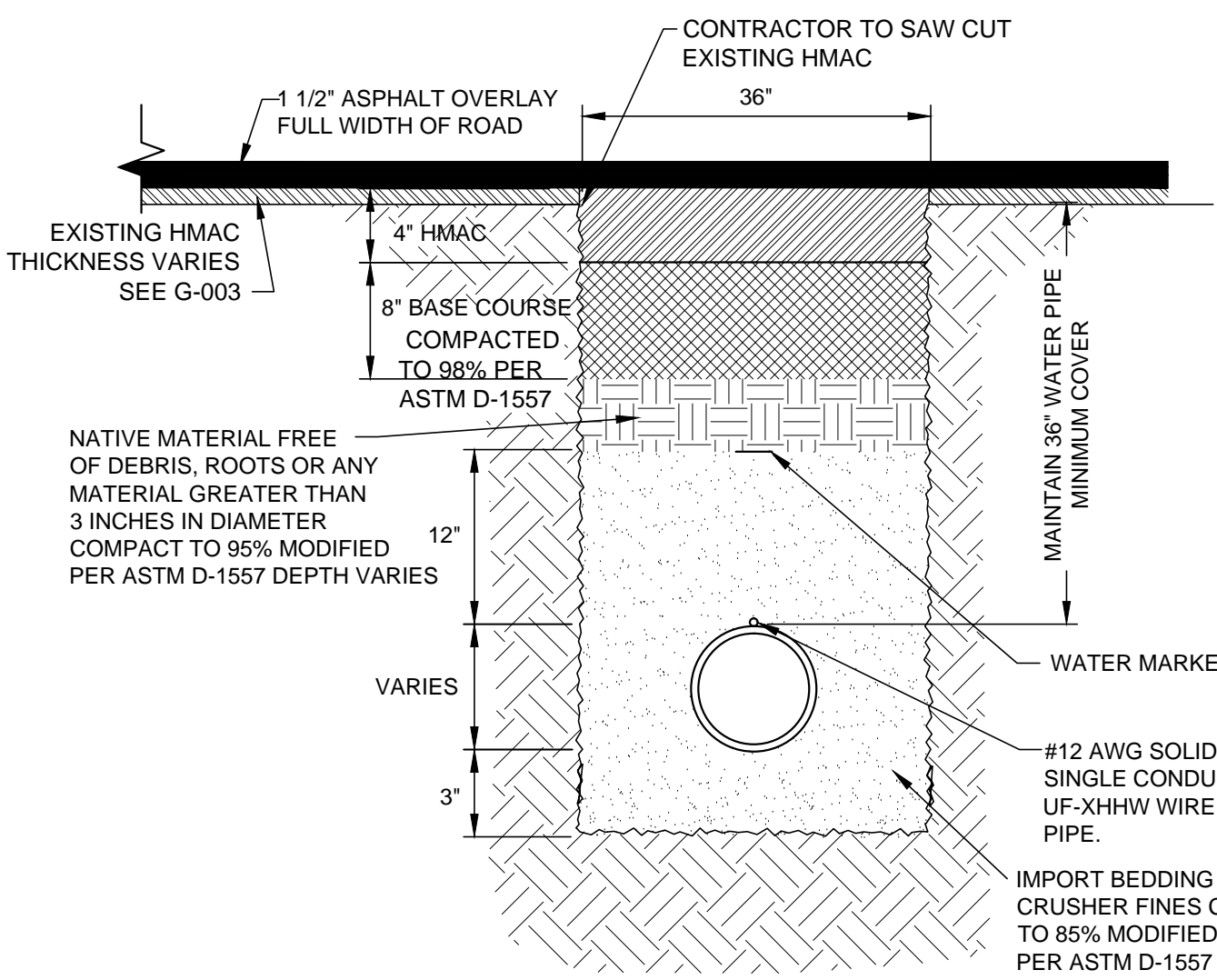
GENERAL NOTES:

1. TABLE IS BASED ON 2000#/SQ. FT. SOIL. IF CONDITIONS ARE FOUND TO INDICATE SOIL BEARING IS LESS, THE AREAS SHALL BE INCREASED ACCORDINGLY.
2. AREAS FOR PIPE LARGER THAN 18" SHALL BE CALCULATED.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSION STRENGTH OF 2500 PSI.
4. THRUST BLOCK IS TO EXTEND TO UNDISTURBED SOIL.
5. SIZE MAY BE DECREASED FOR LESSER DEGREE BENDS AS DETERMINED BY ENGINEER.
6. KEEP CONCRETE CLEAR OF M.J. OR BELL AND SPIGOT JOINTS.
7. BLOCK IN A SIMILAR MANNER AT TEES, HYDRANTS, PLUG OR OTHER LOCATIONS AS REQUIRED.
8. WHEN NECESSARY ADDITIONAL THRUST RESTRAINT METHODS MAY BE USED, SUCH AS MECHANICAL JOINT RESTRAINTS, TIE-RODS (INSTALLED PER MANUFACTURERS' RECOMMENDATIONS) OR OTHER APPROVED METHODS.

PIPE SIZE	WATER PIPE	
	TEE, DEAD END 90° BEND	45° AND 22 1/2° BENDS
4" & LESS	3 SQ. FEET	3 SQ. FEET
6"	4 SQ. FEET	3 SQ. FEET
8"	6 SQ. FEET	3 SQ. FEET
10"	9 SQ. FEET	5 SQ. FEET
12"	13 SQ. FEET	7 SQ. FEET
16"	23 SQ. FEET	12 SQ. FEET
18"	29 SQ. FEET	15 SQ. FEET

CONSTRUCTION KEY NOTES:

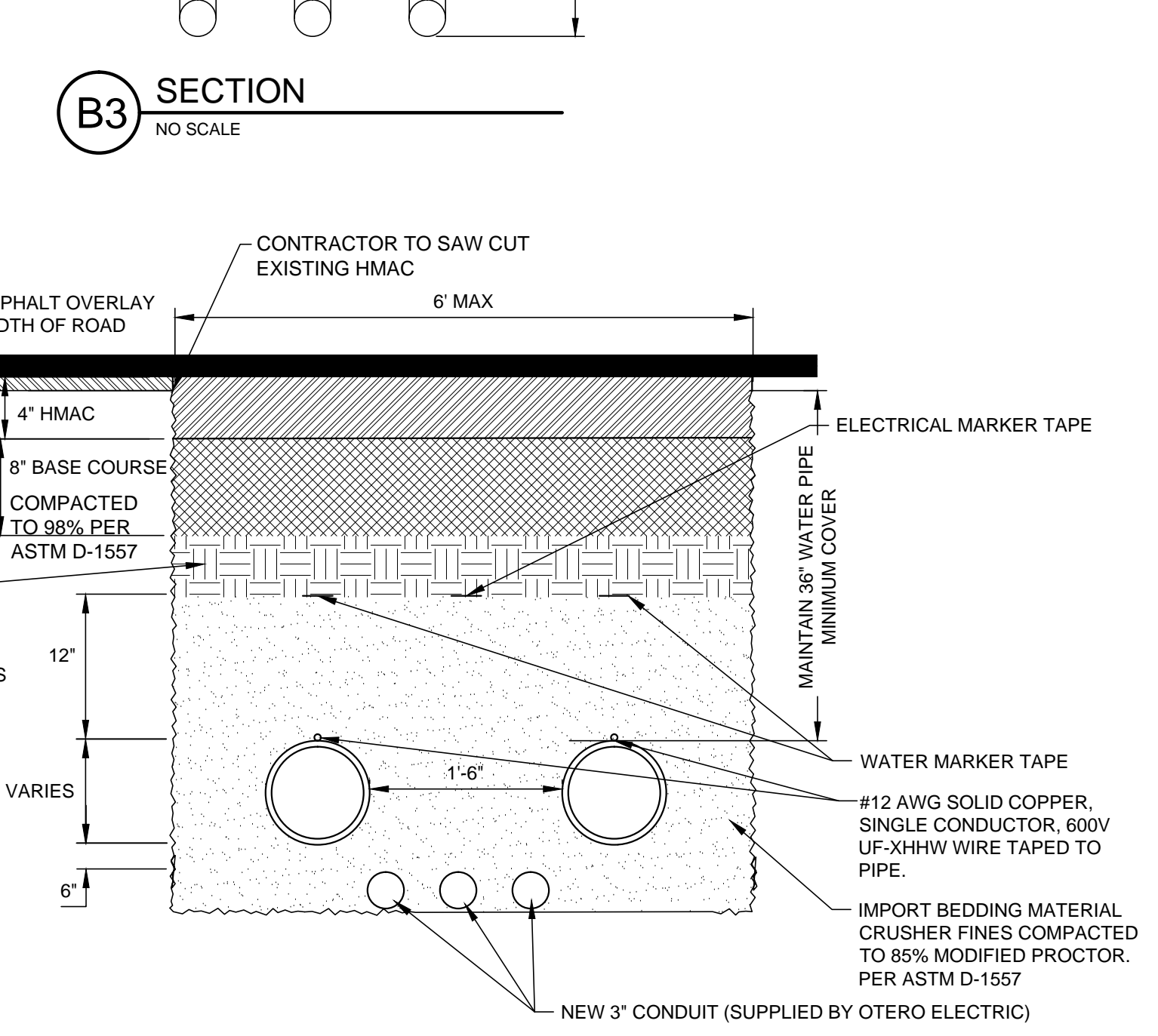
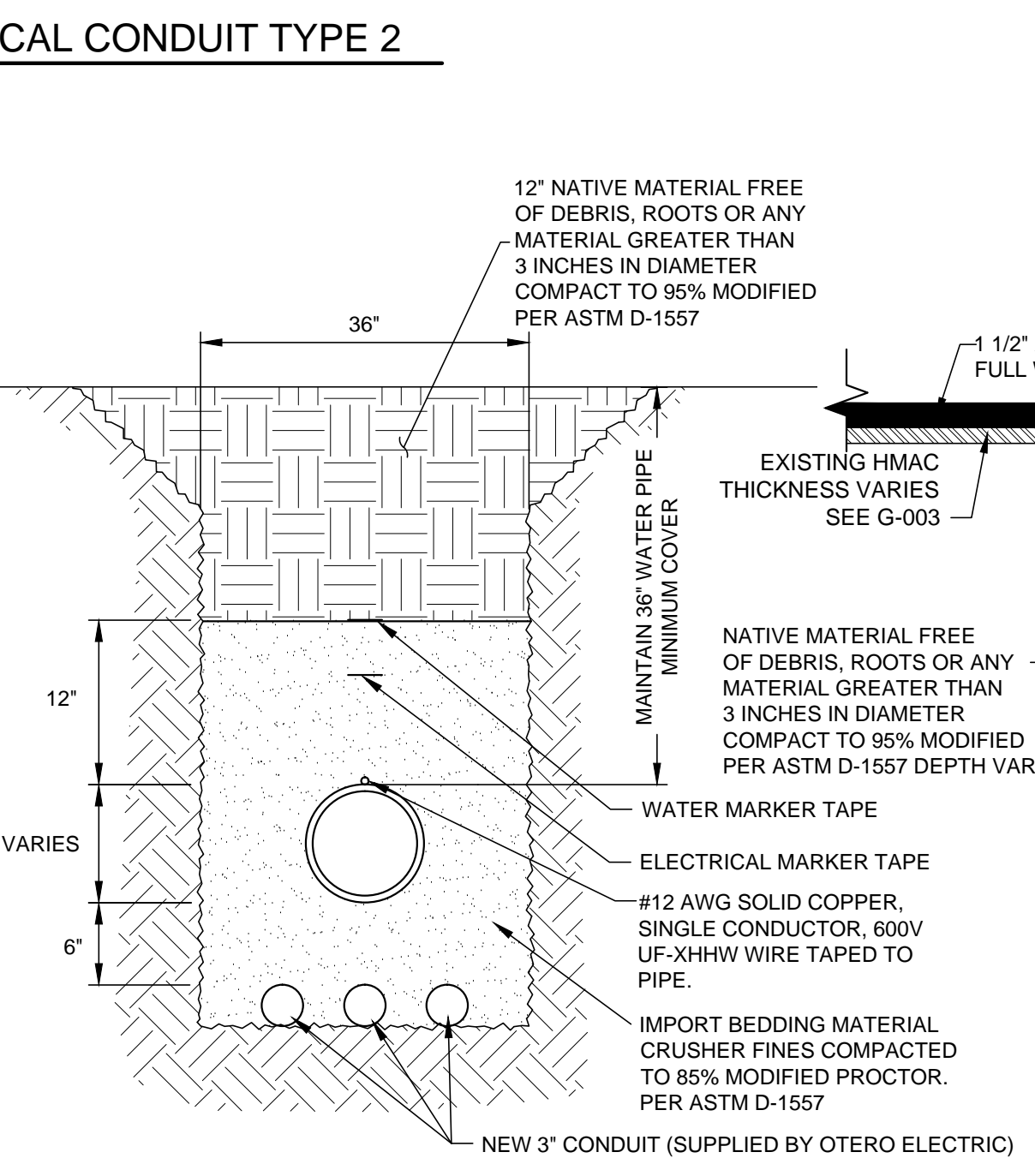
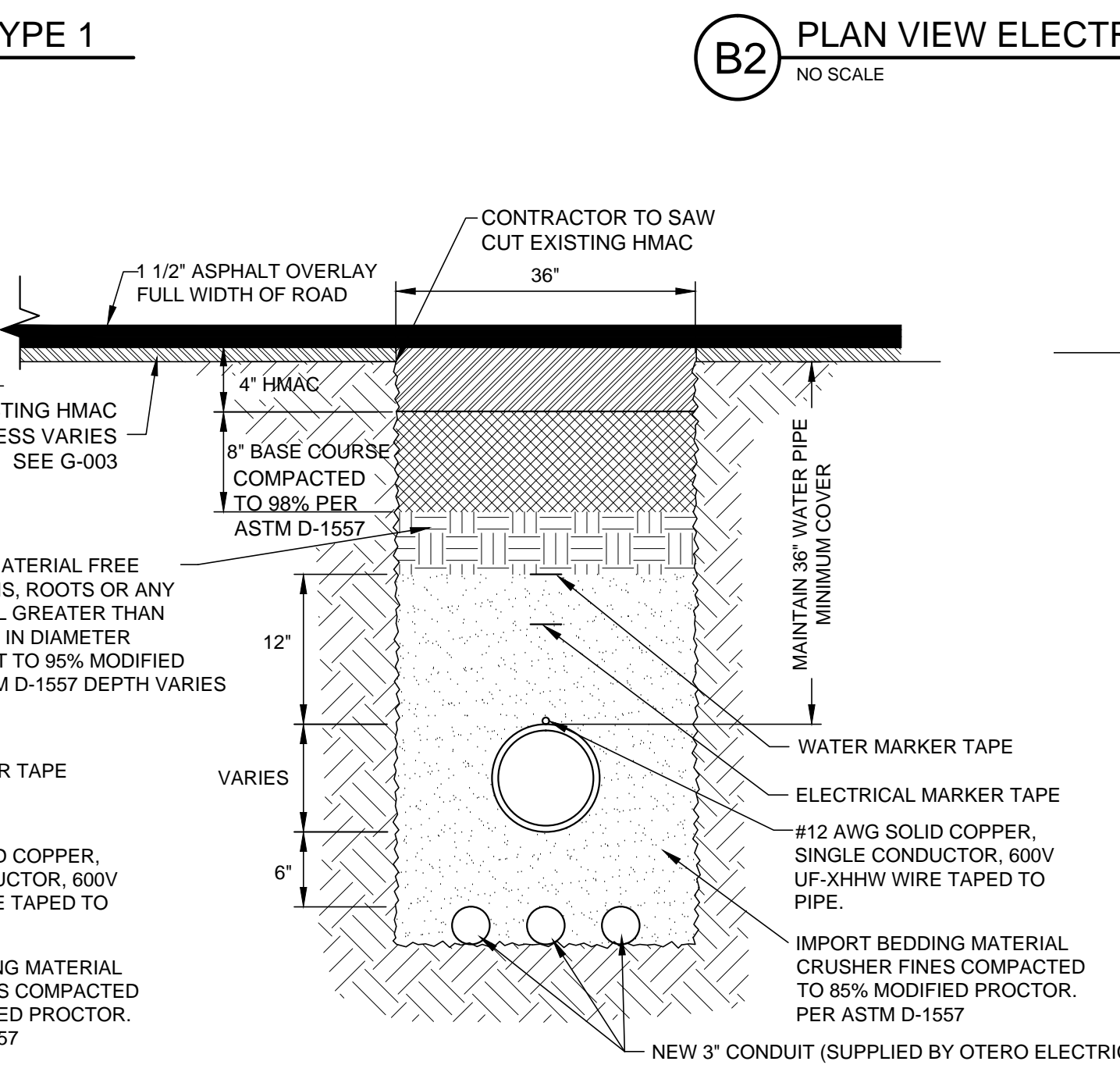
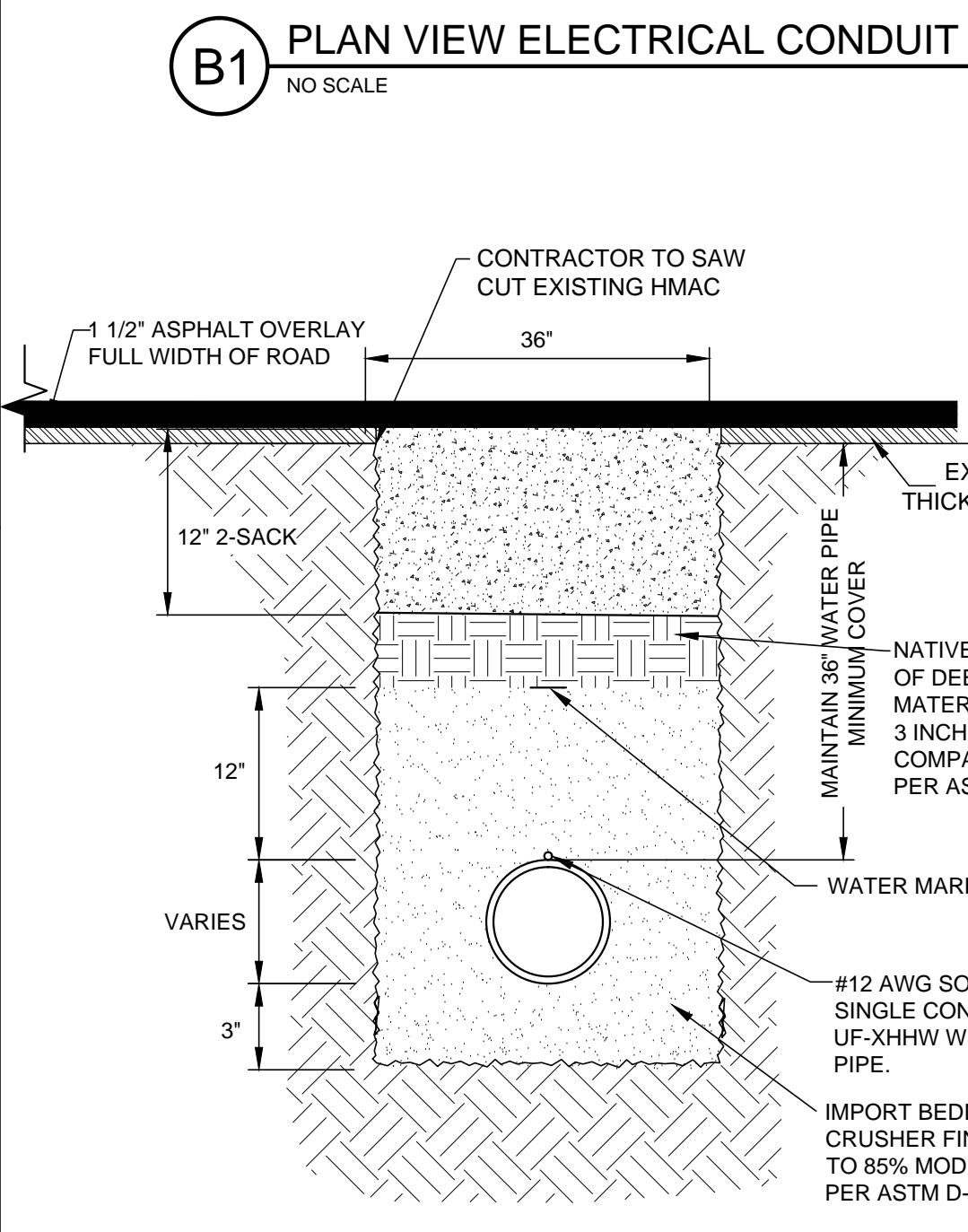
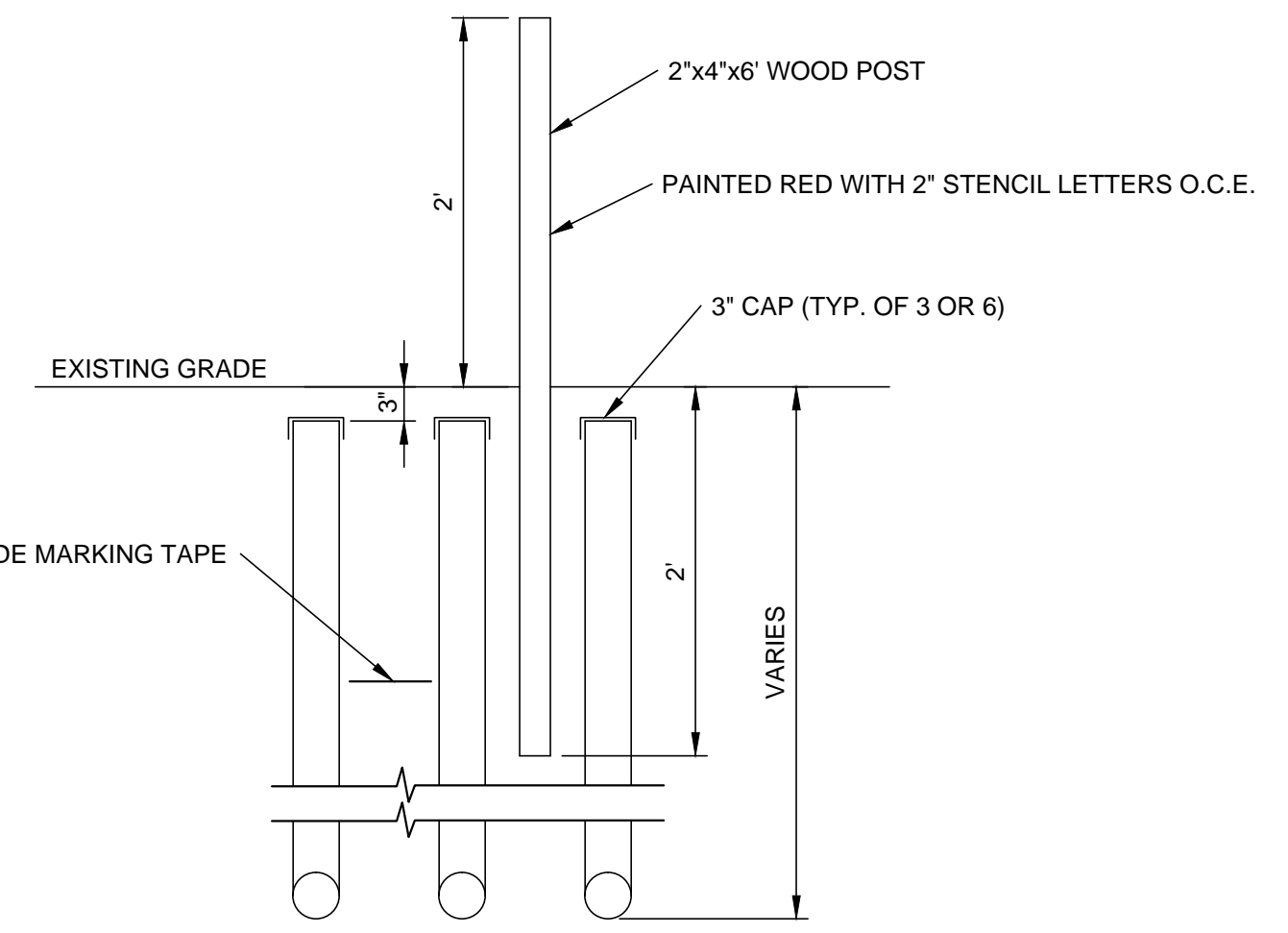
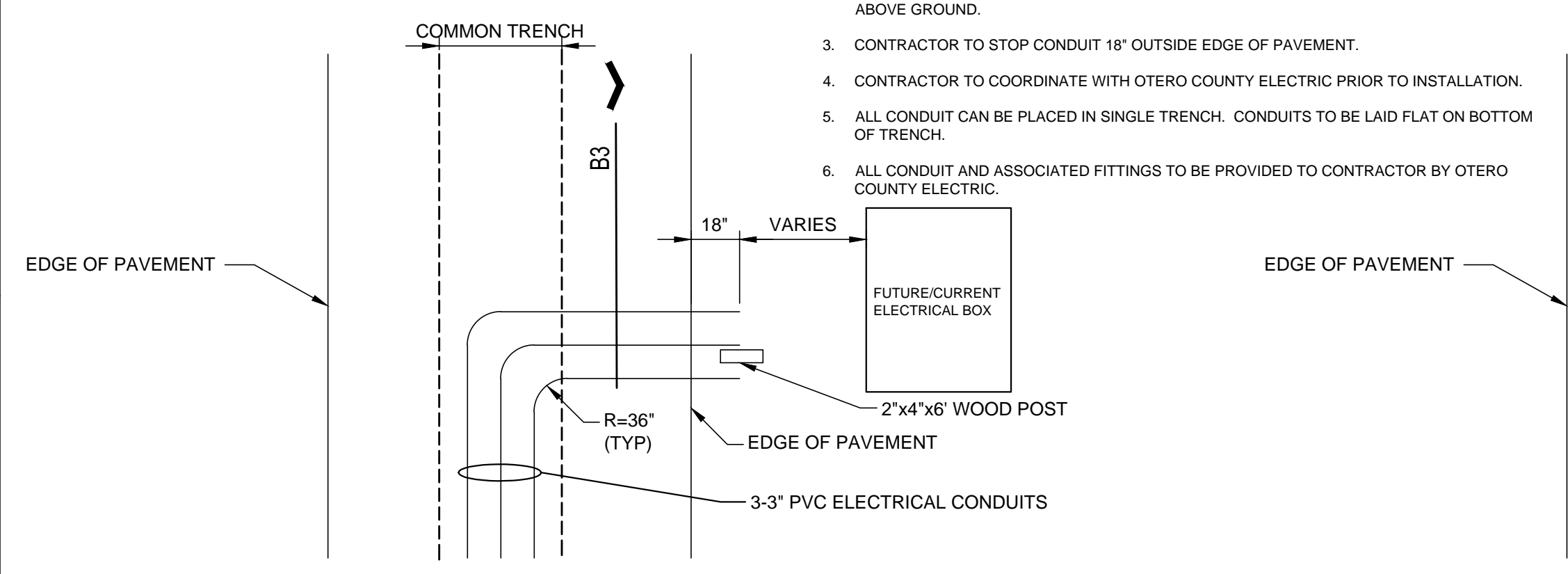
- LENGTH "Y & W" AS REQUIRED TO OBTAIN BEARING AREA AGAINST UNDISTURBED SOIL.
- ADDITIONAL EXCAVATION IF NECESSARY TO OBTAIN REQUIRED BEARING AREA.
- MINIMUM THRUST BLOCK AREA REQUIREMENTS FOR (Y & W) AS FOLLOWS:



C1 CONCRETE THRUST BLOCKING
NO SCALE

GENERAL NOTES:

- CONTRACTOR TO INSTALL ELECTRICAL CONDUITS 18" OUTSIDE OF NEAREST EDGE OF PAVEMENT.
- CONTRACTOR TO CAP AND MARK WITH 2"x4" PAINTED RED, 2"x4" TO EXTEND MIN. 2FT ABOVE GROUND.
- CONTRACTOR TO STOP CONDUIT 18" OUTSIDE EDGE OF PAVEMENT.
- CONTRACTOR TO COORDINATE WITH OTERO COUNTY ELECTRIC PRIOR TO INSTALLATION.
- ALL CONDUIT CAN BE PLACED IN SINGLE TRENCH. CONDUITS TO BE LAID FLAT ON BOTTOM OF TRENCH.
- ALL CONDUIT AND ASSOCIATED FITTINGS TO BE PROVIDED TO CONTRACTOR BY OTERO COUNTY ELECTRIC.



ALTO LAKES WATER DISTRIBUTION IMPROVEMENTS B

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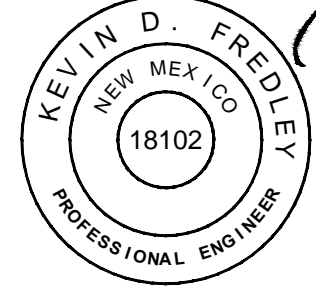
PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS AFTER PRESENTATION OF THE APPLICATION FOR PAYMENT TO THE OWNER WITH ENGINEER'S RECOMMENDATION, THE AMOUNT RECOMMENDED WILL BECOME DUE, AND WHEN DUE, WILL BE PAID BY THE OWNER TO THE CONTRACTOR.

NO.	DATE	DESCRIPTION

ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

PIPELINE TRENCHING, BACKFILL, BEDDING AND PAVEMENT DETAILS

Kevin D. Fredley



08/06/2014

ALTO LAKES WATER DISTRIBUTION IMPROVEMENTS B

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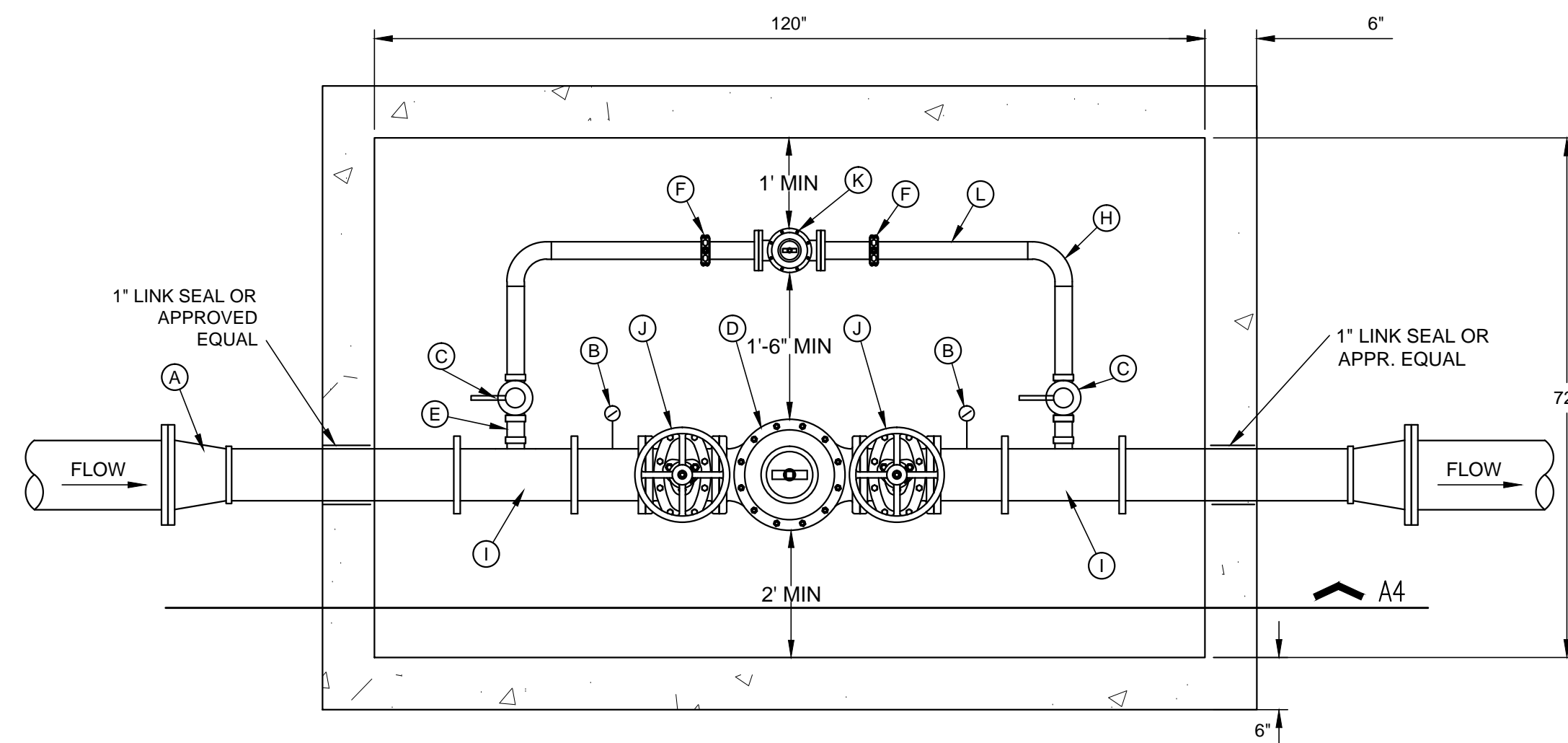
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NO.	DATE	DESCRIPTION

ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

PRESSURE REDUCING STATION DETAILS

C-504



KEY NOTES AS INDICATED BY: (A-L)

- A. 6"X4" ECCENTRIC REDUCER.
- B. PRESSURE GAUGE W/ ISOLATION STOP COCK VALVE, 0-200 PSI (TAP SADDLE AND CORP STOP), MOUNT GAUGE SO IT CAN BE READ FROM TOP OF VAULT.
- C. 1 1/4" BALL VALVE (THREADED).
- D. 4" PRESSURE REDUCING VALVE, CLA-VAL MOD. # 90-01 OR WATTS MOD. #115
- E. 1 1/4" NIPPLE
- F. 1 1/4" UNION.
- G. PRECAST CONCRETE VAULT, 4000PSI REINFORCED CONCRETE, W/200PSF MINIMUM LOAD CAPACITY (HS20)
- H. 1 1/4" ELBOW THREADED.
- I. SPOOL PIECE WITH THREADOLET (4" X 1 1/4").
- J. 4" GATE VALVE WITH PIPE SUPPORT.
- K. 1 1/4" PRESSURE REDUCING VALVE, CLA-VAL MOD. # 90-01 OR WATTS MOD. #115 WITH PIPE SUPPORT
- L. 1 1/4" SCHEDULE 80 PVC

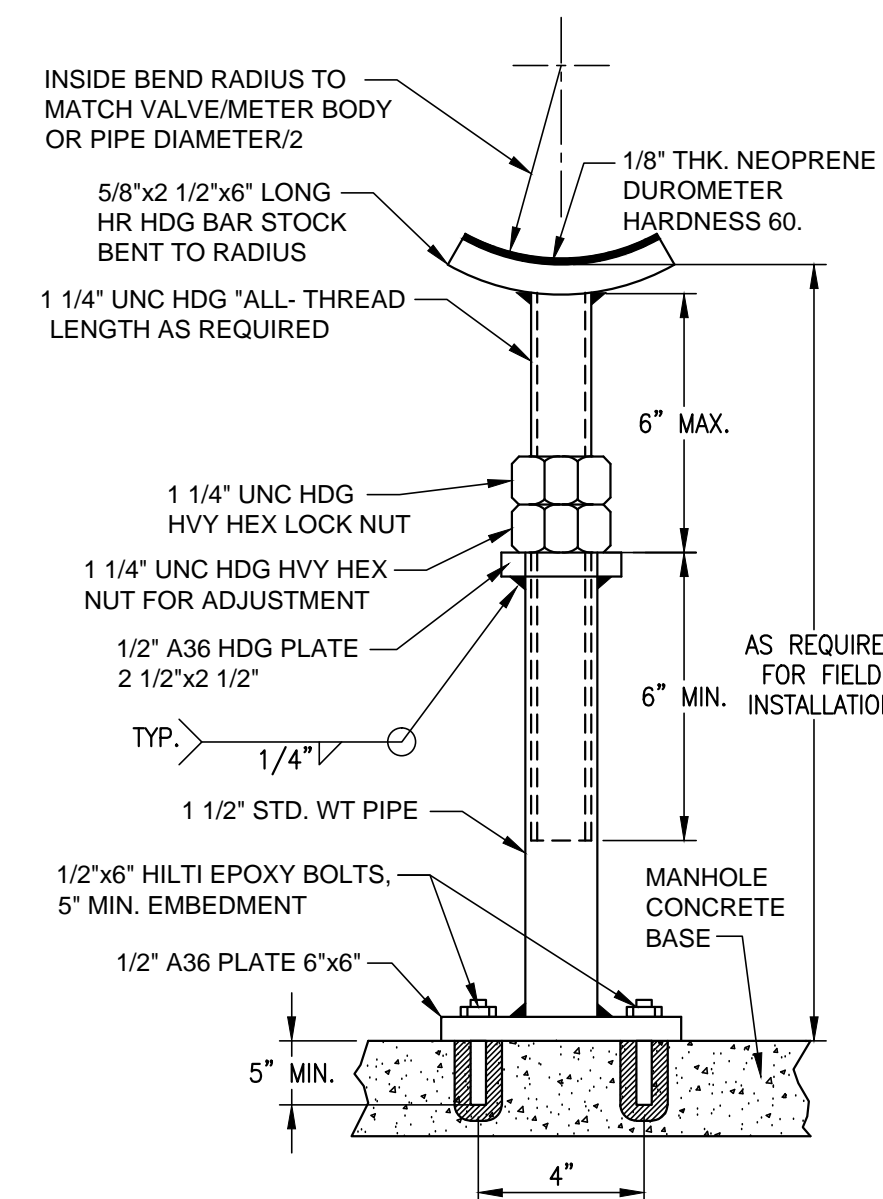
GENERAL NOTES:

- 1. CONTRACTOR TO PLACE VAULT 1.5" ABOVE EXISTING GRADE TO ALLOW FOR 1.5" H/MAC OVERLAY
- 2. CONTRACTOR TO PLACE COLD MIX TRANSITION AROUND VAULT AND TO MAINTAIN UNTIL OVERLAY IS COMPLETE.
- 3. VAULT TO BE MANUFACTURED BY WESTERN PRECAST (EL PASO, TX) OR APPROVED EQUAL.
- 4. CONTRACTOR TO VERIFY ALL PIPING AND VALVES TO FIT WITH PROPER CLEARANCE PRIOR TO ORDERING VAULT.

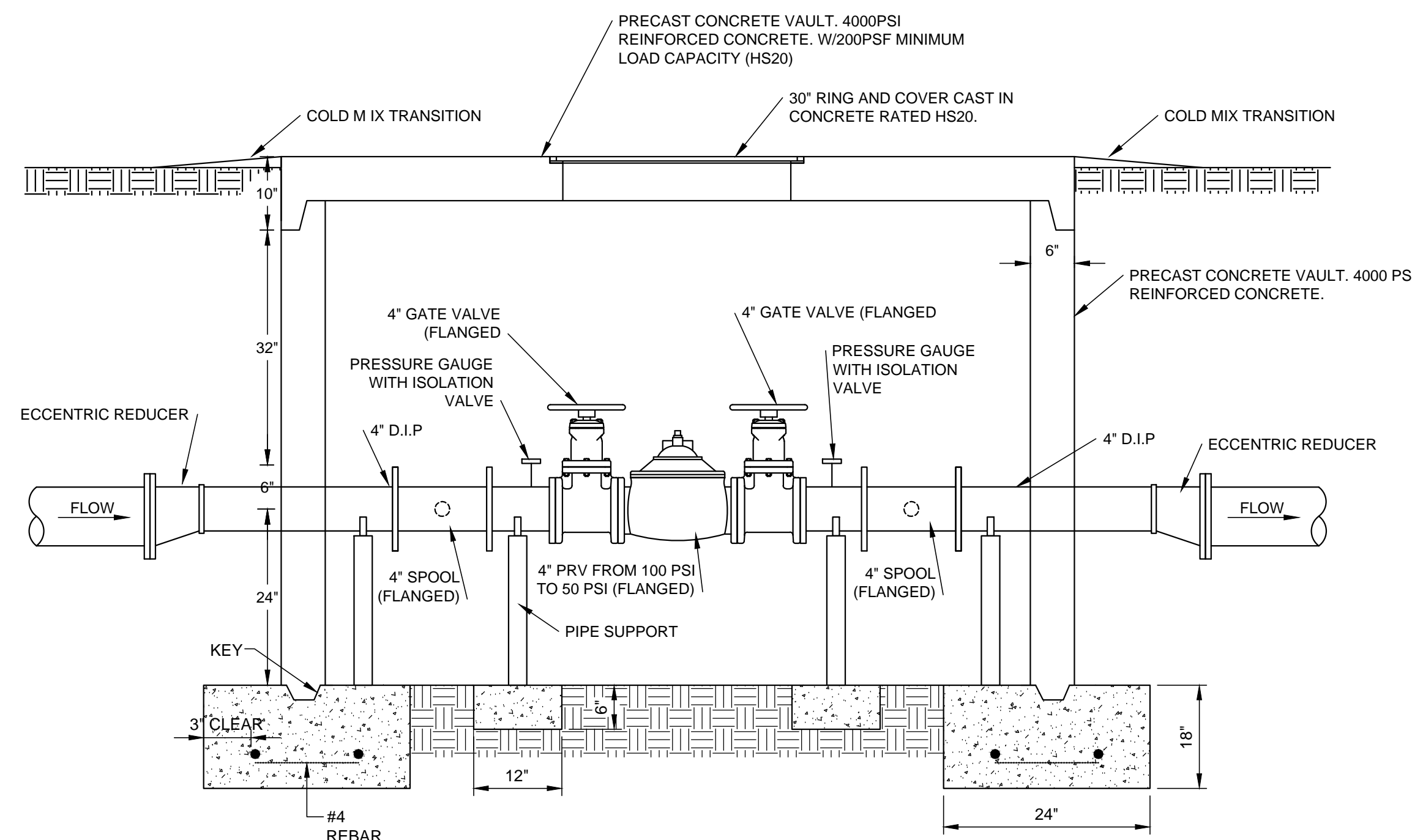
A1 4" PRV DETAIL NTS

GENERAL NOTES:

- 1. CONTRACTOR TO COORDINATE ALL TIE-INS WITH ALW&SD 48 HR PRIOR TO ANY TIE-IN WORK. ALL TIE-IN WORK SHALL BE COMPLETED WITHIN 4 HOURS OF LINE SHUT DOWN.
- 2. CONTRACTOR TO NOTIFY RESIDENTS 48 HOURS PRIOR TO ANY TIE-IN WORK.
- 3. TIE-IN SHALL BE COMPLETED WITHIN 4 HOURS AND SERVICE RESTORED. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER TO RESIDENTS FOR TIE-INS THAT EXCEED 4 HOURS.
- 4. CONTRACTOR TO PASS PRESSURE TEST AND BAC-T TEST ON ALL NEW LINES PRIOR TO ANY TIE-INS TO EXISTING LINES.
- 5. CONTRACTOR SHALL BE PREPARED AND PROVIDE EQUIPMENT TO COMPLETE THE WORK IN A WET CONDITION IF THE EXISTING VALVES CAN NOT BE COMPLETELY SHUT.
- 6. CONTRACTOR SHALL COMPLETE ASSEMBLY OF NEW TIE-IN PRIOR TO SHUTTING DOWN EXISTING LINE. ALL PIPE, FITTINGS AND VALVES SHALL BE CHLORINATED PRIOR TO INSTALLATION.
- 7. ALL FITTINGS AND VALVES SHALL BE RESTRAINED.
- 8. CONTRACTOR CAN INSTALL COPPER TUBING (TYPE K) OR PVC TO EXISTING LINE. CONTRACTOR TO USE EPOXY SOLID SLEEVE COUPLING. (NO PVC MOODYS WILL BE ALLOWED).



C1 PIPE SUPPORT DETAIL NTS



A4 SECTION NTS

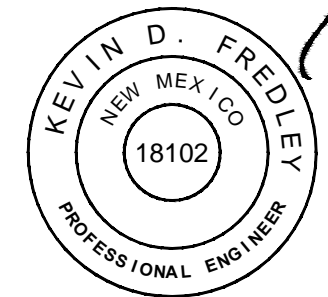
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Kevin D. Fredley



08/06/2014

**ALTO LAKES
WATER DISTRIBUTION
IMPROVEMENTS B**

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(575) 336-4333**

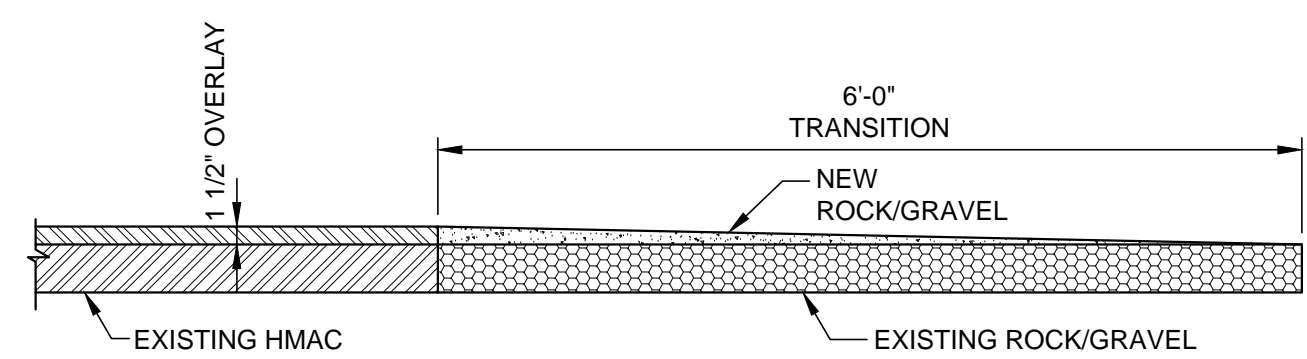
PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS
AFTER PRESENTATION OF THE APPLICATION FOR
PAYMENT TO THE OWNER WITH ENGINEER'S
RECOMMENDATION, THE AMOUNT RECOMMENDED
WILL BECOME DUE, AND WHEN DUE, WILL BE PAID
BY THE OWNER TO THE CONTRACTOR.

NO.	DATE	DESCRIPTION

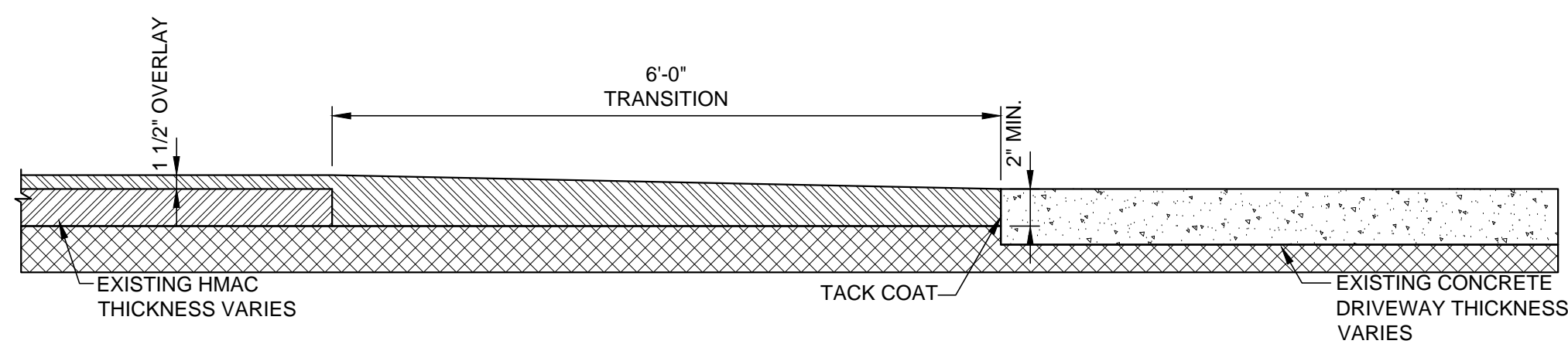
ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

**DRIVEWAY, PAVEMENT
REPLACEMENT CUT AND
PLUG DETAILS**

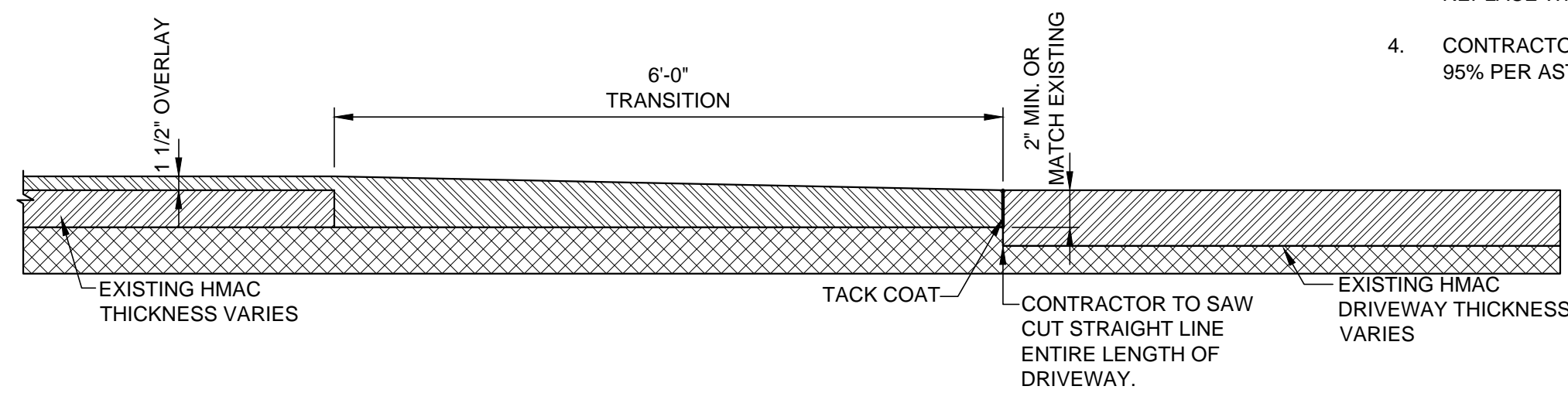
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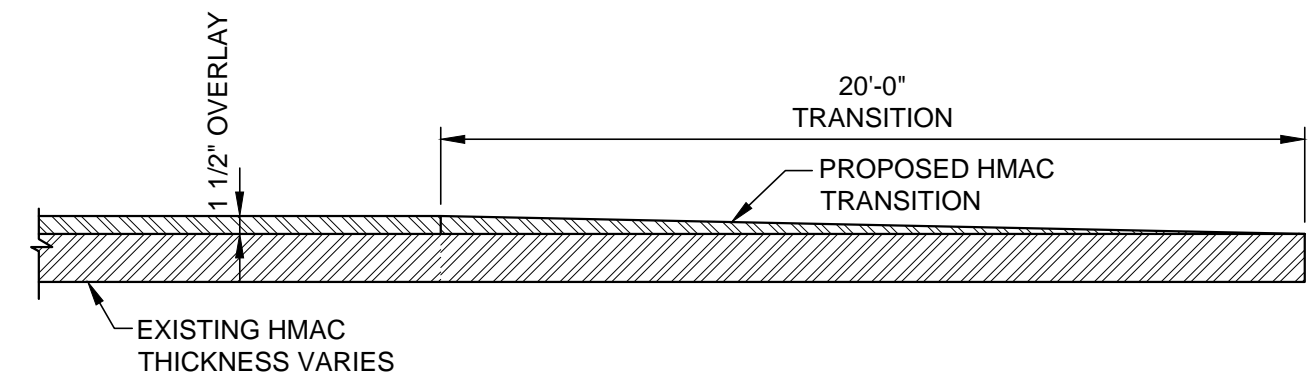
C1 TIE-IN HMAC TO EXISTING ROCK/GRAVEL DRIVEWAY
N.T.S



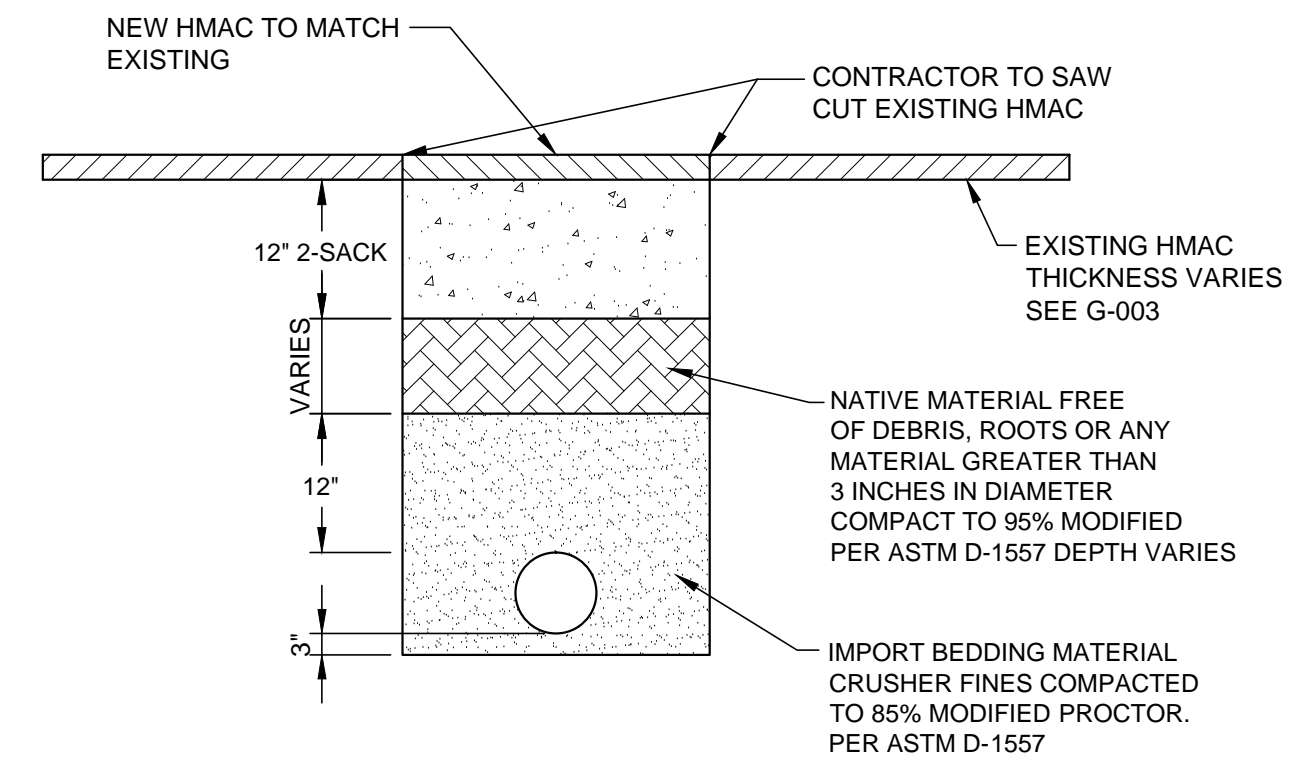
C4 TIE-IN HMAC TO EXISTING CONCRETE DRIVEWAY
N.T.S



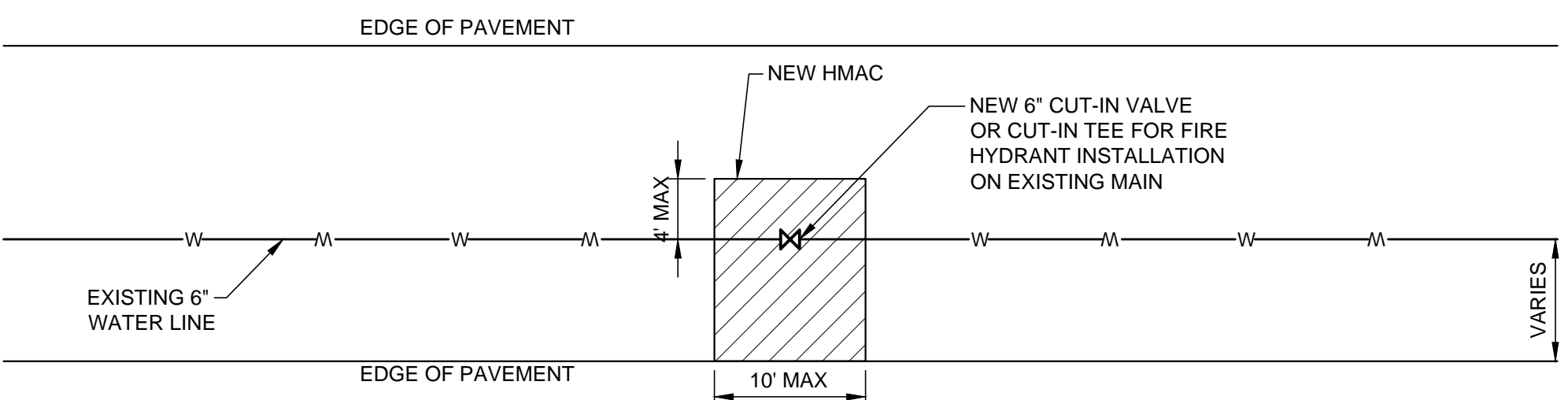
B3 TIE-IN HMAC TO EXISTING HMAC DRIVEWAY
N.T.S



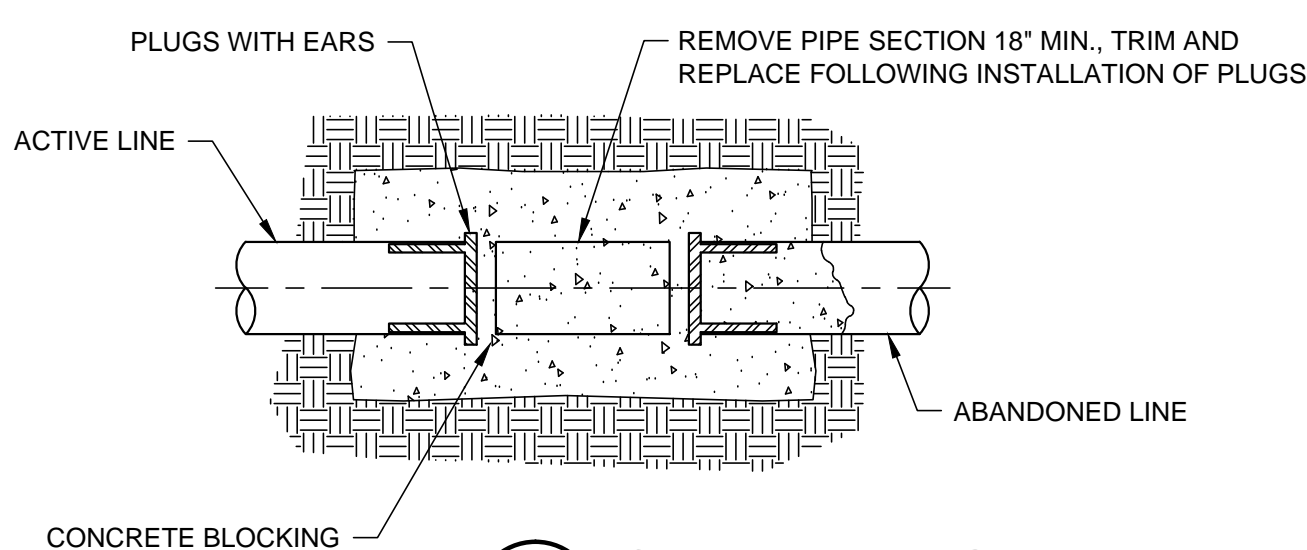
B4 HMAC ROADWAY TRANSITION
N.T.S



- NOTES:**
- CONTRACTOR TO NEAT LINE EXISTING PAVEMENT PRIOR TO PLACEMENT OF NEW HMAC.
 - CONTRACTOR TO PLATE TRENCH DURING NON-WORKING HOURS UNTIL HMAC HAS BEEN PLACED
 - 2-SACK IS SUBSIDIARY TO EITHER VALVE OR FIRE HYDRANT COSTS.
 - EXISTING TIE-INS MAY BE LOCATED OUTSIDE OF THE PAVED AREAS.
 - ANY HMAC ASSOCIATED WITH THIS WORK WILL BE PAID UNDER BID ITEM NO. 8



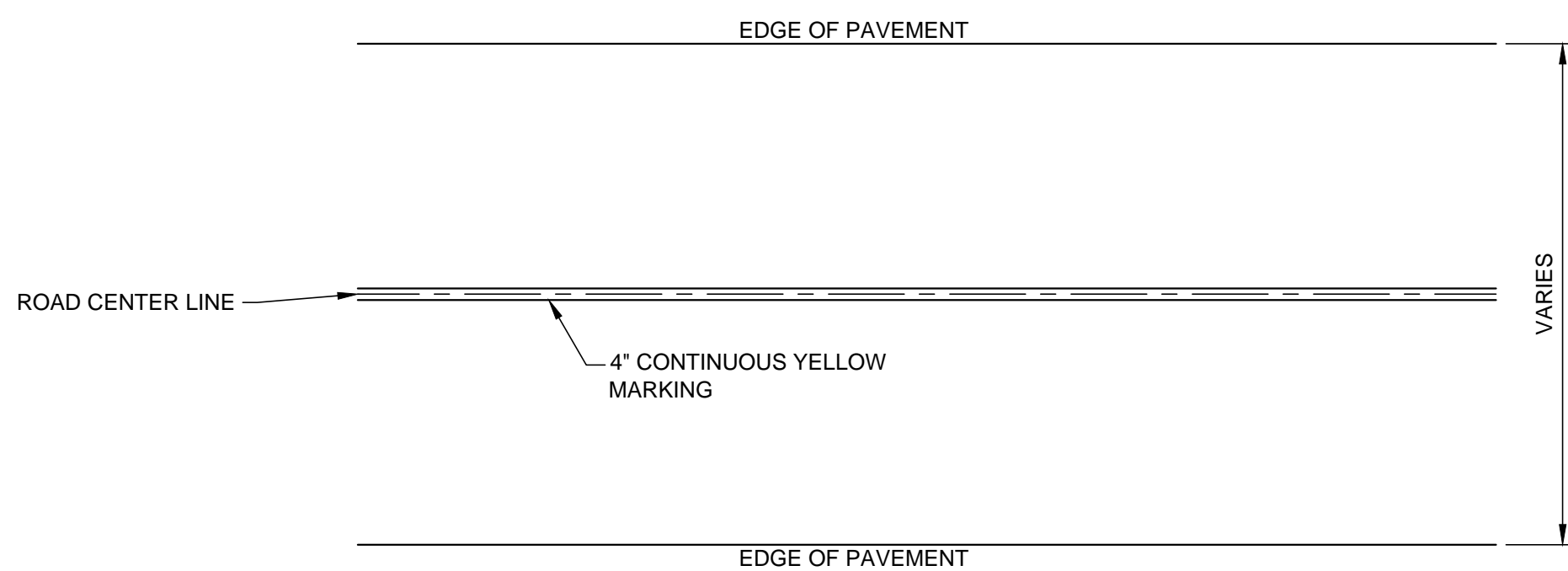
B2 PAVEMENT REPAIR FOR FIRE HYDRANT AND CUT-IN VALVE INSTALLATION
N.T.S



A1 CUT AND PLUG DETAIL
N.T.S

- NOTES:**
- CUT AND PLUG TO BE LOCATED AS CLOSE AS POSSIBLE TO ACTIVE LINES OR EXISTING VALVE.

- NOTES:**
- CONTRACTOR TO PROVIDE TRAFFIC PAINT IN ACCORDANCE WITH LATEST EDITION OF NEW MEXICO DEPARTMENTS SPECIFICATION SECTION 704 (PAVEMENT MARKINGS) FOR WHITE AND YELLOW TRAFFIC LINE PAINTS USED ON CONSTRUCTION PROJECTS (HIGH SOLIDS WATERBASE ACRYLIC) SPECIFICATION M-TPC-WBACR FOR STANDARD ACRYLIC PAINT OR M-TPC-WBACRHB FOR HI-BUILD ACRYLIC PAINT, AVAILABLE FROM TRAFFIC SERVICE ENGINEER.
 - CONTRACTOR TO PROVIDE HIGH PERFORMANCE BEADS FOR IMPROVED RETRO-REFLECTIVE AND DURABILITY FOR HIGHWAY MARKING IN ACCORDANCE WITH TABLE 704.2.2.1 OF THE NEW MEXICO DEPARTMENTS SPECIFICATIONS.
 - CONTRACTOR TO COORDINATE WITH LINCOLN COUNTY PRIOR TO ANY STRIPING.
 - CONTRACTOR TO REPLACE EXISTING STRIPING FROM INTERSECTION OF OSO LOOP AND DEER VALLEY TO INTERSECTION OF DEER VALLEY AND ANTLER DR.



A4 PAVEMENT MARKING DETAIL
N.T.S

SITE DESCRIPTION

PROJECT NAME AND LIMITS: ALTO LAKES WATER DISTRIBUTION IMPROVEMENTS B

PROJECT DESCRIPTION: INSTALLMENT OF 6" WATER LINES AND NEW FIRE HYDRANTS

EXISTING CONDITIONS: PAVED ROAD

MAJOR SOIL DISTURBING ACTIVITIES: INSTALLATION OF 6" PIPE

TOTAL PROJECT AREA: 0.93 ACRES

EROSION AND SEDIMENT CONTROL

SOIL STABILIZATION PRACTICES

- _____ TEMPORARY SEEDING
- _____ PERMANENT PLANTING, SODDING, OR SEEDING
- _____ MULCHING
- _____ SOIL RETENTION
- _____ BUFFER ZONES
- PRESERVATION OF NATURAL RESOURCES

OTHER: _____

STRUCTURAL PRACTICES:

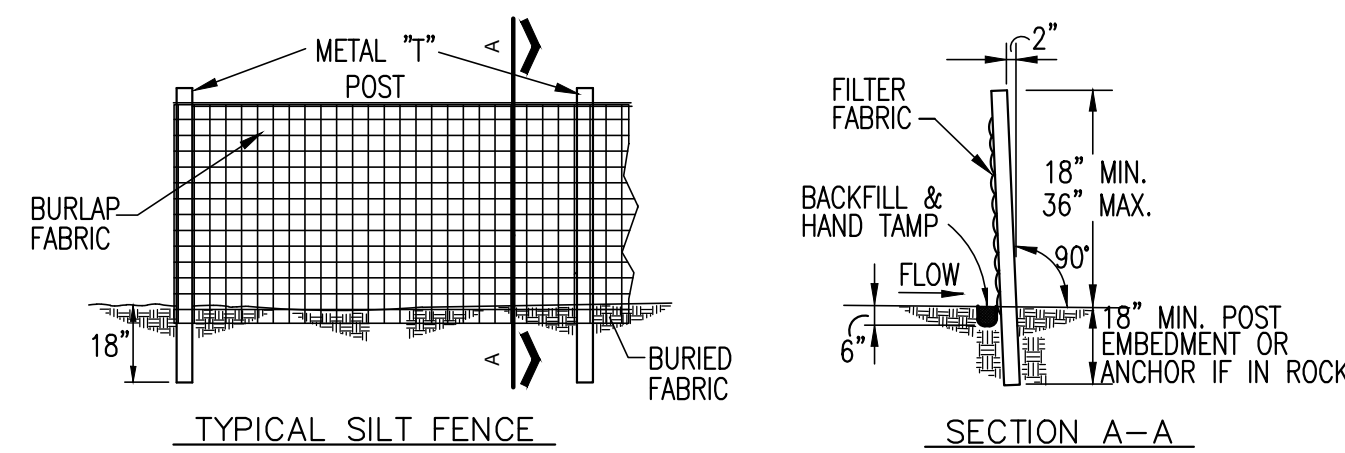
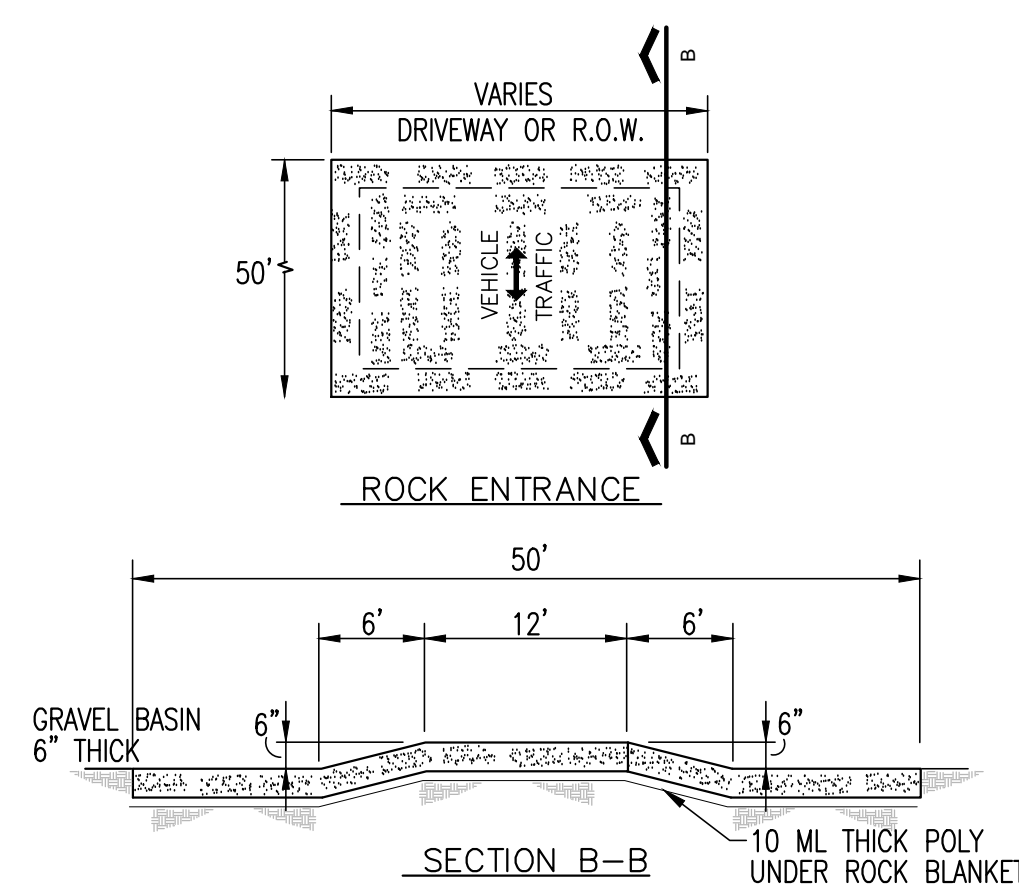
- SILT FENCE (TEMPORARY)
- SEDIMENTATION LOGS (TEMPORARY)
- _____ ROCK BERMS
- _____ DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
- _____ DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
- _____ DIVERSION DIKE AND SWALE COMBINATIONS
- _____ PIPE SLOPE DRAINS
- _____ CONCRETE FLUMES
- ROCK BEDDING AT CONSTRUCTION EXIT (TEMPORARY)
- _____ TIMBER MATTING AT CONSTRUCTION EXIT
- _____ CHANNEL LINERS
- _____ SEDIMENT TRAPS
- _____ SEDIMENT BASINS
- _____ STORM INLET SEDIMENT TRAP
- _____ STONE OUTLET STRUCTURES
- _____ CURBS AND GUTTERS (PERMANENT)
- _____ STORM DRAINS (PERMANENT)
- _____ VELOCITY CONTROL DEVICES
- _____ VEGETATED SWALES & NATURAL DEPRESSIONS

BEST MANAGEMENT PRACTICES CONTROLS

- I WASTE MATERIALS**
ALL WASTE MATERIALS, INCLUDING CONSTRUCTION DEBRIS, SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. NO CONSTRUCTION MATERIAL SHALL BE BURIED ON SITE. THE TRANSIT DUMPSTER SHALL COMPLY WITH ANY LOCAL AND STATE ORDINANCE. THE DUMPSTER SHALL BE EMPTIED AS NECESSARY AND THE TRASH SHALL BE HAULED TO A LICENSED LANDFILL.
- II HAZARDOUS WASTE**
AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES SHALL BE CONSIDERED HAZARDOUS: PAINT, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SPILL STABILIZATION, CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION AND CONTACT THE FIRE DEPT. AND TCEQ.
- III SANITARY WASTE**
ALL SANITARY WASTE SHALL BE COLLECTED FROM THE CONSTRUCTION PORTABLE UNITS AS NECESSARY BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- IV SPILL PREVENTION**
THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURES OF MATERIALS TO STORM WATER RUNOFF.
- V GOOD HOUSEKEEPING**
- A. STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB.
 - B. NEATLY STORE MATERIALS ON-SITE IN AN ORDERLY MANNER.
 - C. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER.
 - D. DO NOT MIX SUBSTANCES WITH ONE ANOTHER, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER.
 - E. USE ENTIRE CONTENTS OF A PRODUCT BEFORE DISPOSING THE CONTAINER.
 - F. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL.
- VI HAZARDOUS PRODUCTS:**
PRACTICES USED TO REDUCE RISKS:
- A. KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER IF AT ALL POSSIBLE.
 - B. RETAIN ORIGINAL LABELS, PRODUCT INFORMATION AND MATERIAL SAFETY DATA SHEETS (MSDS)
 - C. DISPOSE SURPLUS PRODUCT IN ACCORDANCE WITH MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS.
 - D. NON-STORM WATER ALLOWABLE DISCHARGES:
 - 1) FIREHYDRANT AND POTABLE WATER LINE FLUSHING.
 - 2) WATER FOR VEHICLE WASH DOWN.
 - 3) WATER FOR DUST CONTROL.
 - 4) BUILDING AND PAVEMENT WASHDOWN WATER.
 - E. NON ALLOWED DISCHARGES:
 - 1) PETROLEUM PRODUCTS.
 - 2) PAINTS.
 - 3) CONCRETE TRUCK WASHOUT.
 - 4) FERTILIZERS.
- VII PETROLEUM PRODUCTS:**
ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF SPILLS. PETROLEUM SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.
- VIII SPILL CONTROL PRACTICES:**
- A. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES.
 - B. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE.
 - C. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
 - D. SPILL AREA SHALL BE WELL VENTILATED AND APPROPRIATE CLOTHING WILL BE WORN.
 - E. ANY SPILL SHALL BE REPORTED TO THE APPROPRIATE GOVERNMENTAL AGENCY.
 - F. MEASURES SHALL BE TAKEN TO PREVENT A SPILL FROM REOCCURRING.
- IX MAINTENANCE AND INSPECTION PROCEDURES**
ALL POLLUTION PREVENTION MEASURES SHALL BE INSPECTED AT LEAST ONCE A MONTH AND FOLLOWING A STORM EVENT OF 0.5 INCHES OR MORE. BEST MANAGEMENT PRACTICES AND POLLUTION CONTROL PROCEDURES SHALL BE INSPECTED FOR ADEQUACY. A RECORD OF THE RESULT OF THE INSPECTIONS OF THE SITE SHALL BE KEPT ON SITE.
- X REMARKS**
DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS OR STREAMBEDS. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS.
- XI OFFSITE VEHICLE TRACKING** IN ADDITION TO THE STABILIZED CONSTRUCTION ENTRANCES, THE FOLLOWING MEASURES SHALL BE OBSERVED DURING CONSTRUCTION:
- HAUL ROADS SHALL BE DAMPENED FOR DUST CONTROL
 - LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPULIN
 - EXCESS DIRT ON ROAD SHALL BE REMOVED DAILY
 - STABILIZED CONSTRUCTION ENTRANCE
 - OTHER: _____

EROSION CONTROL NOTES

1. SILT FENCING OR TEMPORARY BERMS SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION.
2. TEMPORARY SWALES AND DESILTING BASINS WILL BE PLACED WHERE NECESSARY IN ORDER TO CONVEY STORMWATER RUN-OFF.
3. A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT ALL EROSION CONTROL METHODS ARE INSPECTED ON A WEEKLY BASIS OR AFTER EVERY ERODIBLE RAINFALL (1/2" OR MORE). ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL SHALL BE MADE AT THAT TIME.



EROSION & SEDIMENT CONTROLS TEMPORARY STABILIZATION
SCALE: N.T.S.

ALTO LAKES WATER DISTRIBUTION IMPROVEMENTS B

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ALTO, NM 88312
(575) 336-4333**

PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS AFTER PRESENTATION OF THE APPLICATION FOR PAYMENT TO THE OWNER WITH ENGINEER'S RECOMMENDATION, THE AMOUNT RECOMMENDED WILL BECOME DUE, AND WHEN DUE, WILL BE PAID BY THE OWNER TO THE CONTRACTOR.

NO.	DATE	DESCRIPTION

EROSION CONTROL (BEST MANAGEMENT PRACTICES)

C-601

PSC
PARKHILL SMITH & COOPER

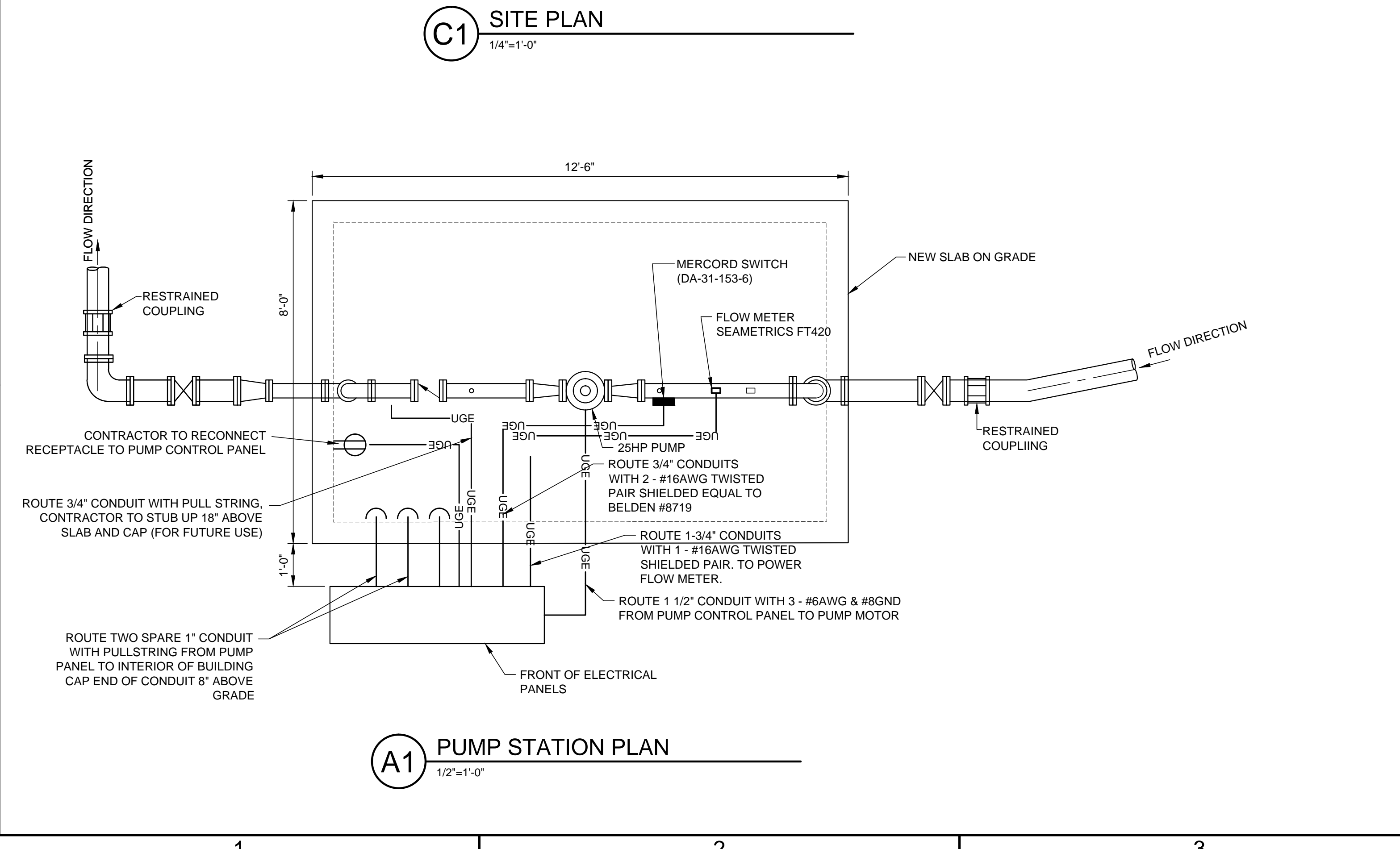
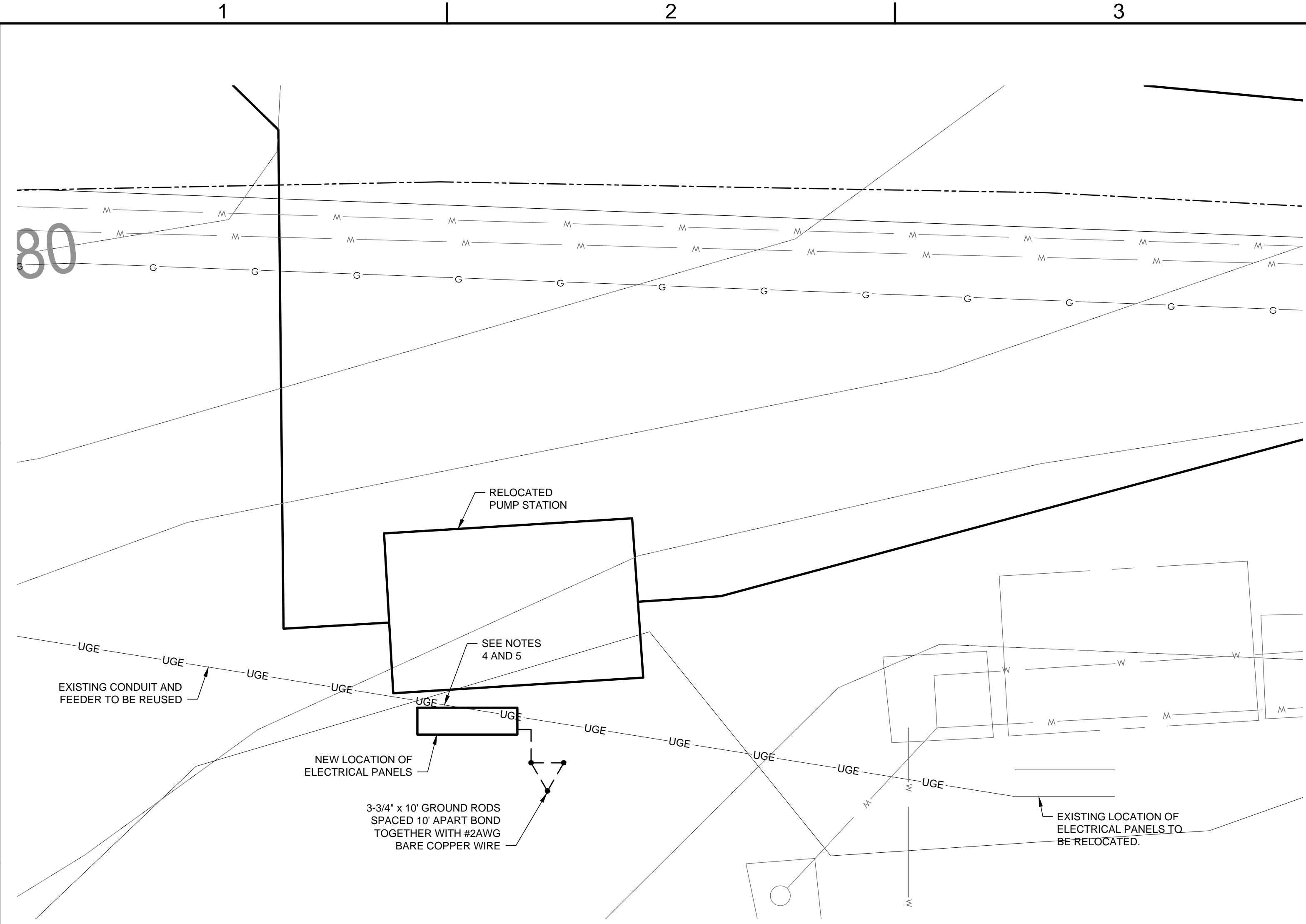
Kevin D. Fredley
KEVIN D. FREDLEY
NEW MEXICO
18102
PROFESSIONAL ENGINEER
08/06/2014

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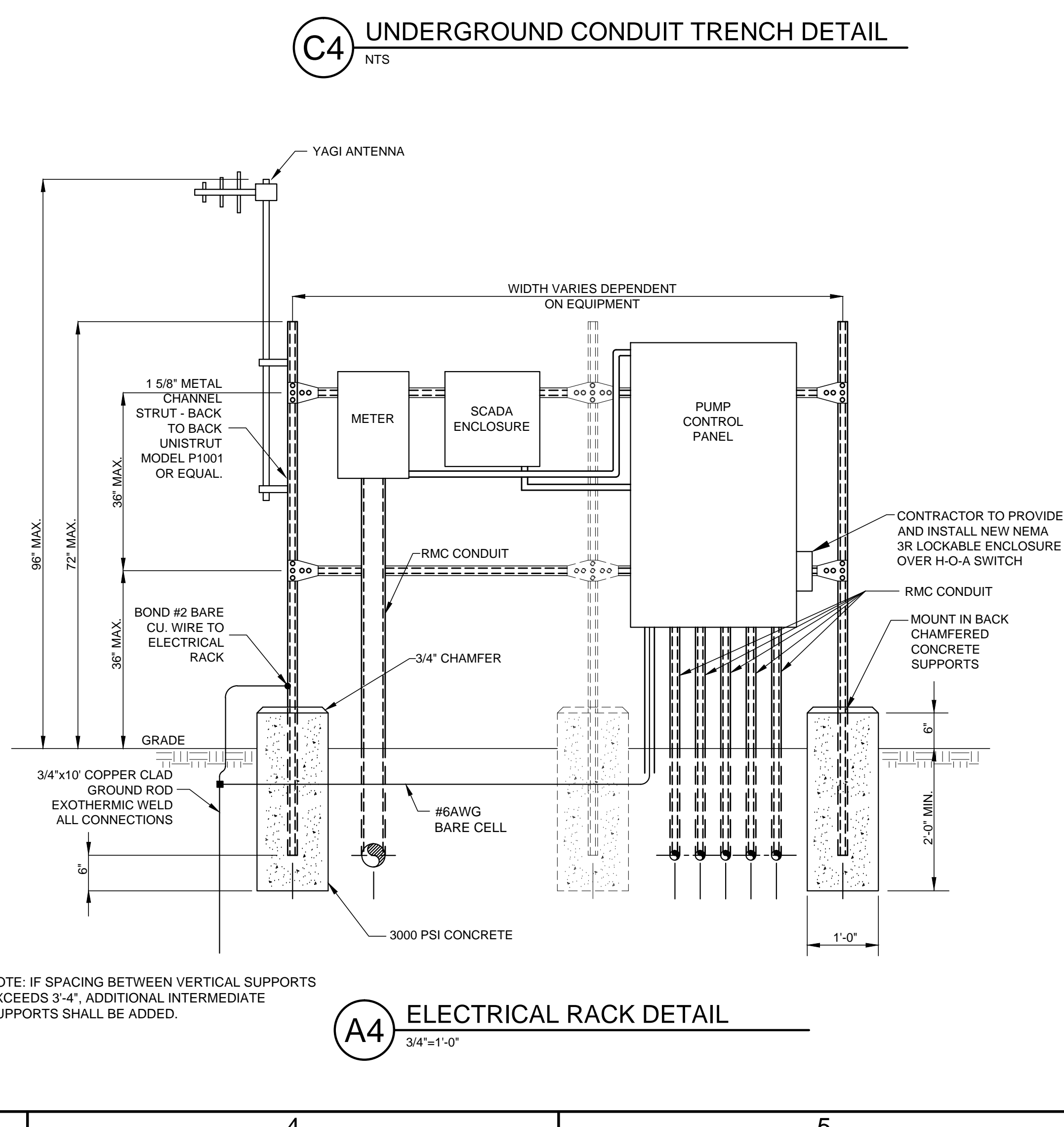
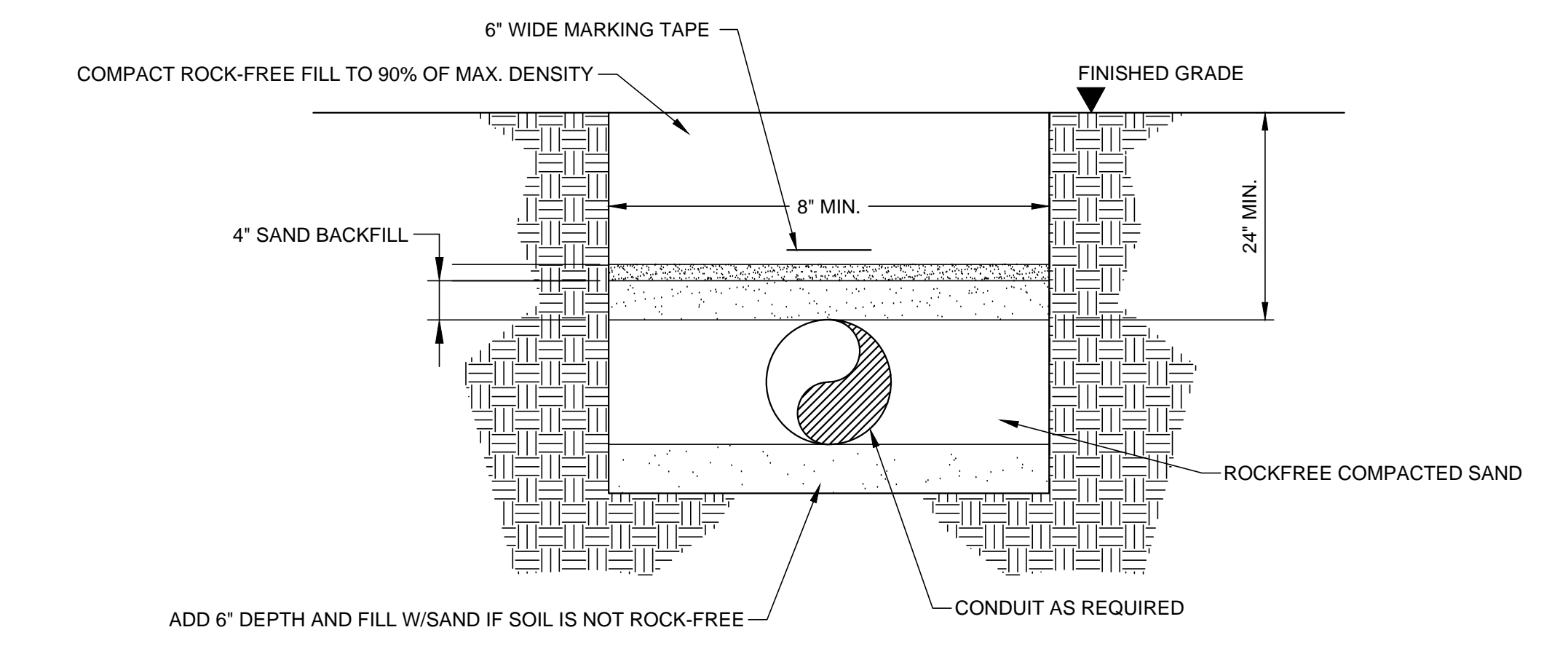
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4/7/2014



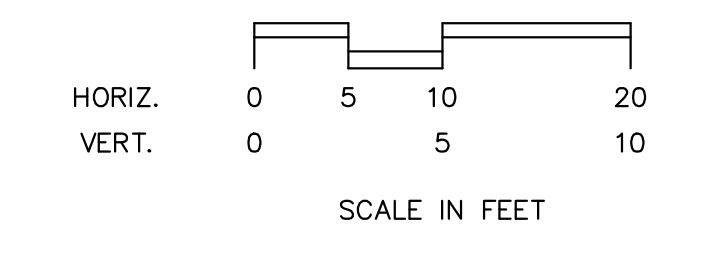
- NOTES:**
- CONTRACTOR SHALL COORDINATE WITH OWNER COUNTRY CLUB AND LOCAL UTILITY PROVIDER TO DEENERGIZE SERVICE PRIOR TO BEGINNING CONSTRUCTION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING EXISTING ELECTRICAL PANEL, SCADA PANEL, METER, AND ANTENNA.
 - A NEW RACK FOR MOUNTING ELECTRICAL PANEL SHALL BE CONSTRUCTED AT THE LOCATION SHOWN ON THE PLANS.
 - CONTRACTOR SHALL INTERCEPT ELECTRICAL FEEDER CONDUIT AT THE NEW PANEL LOCATION. CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING CONDUCTORS. EXISTING CONDUCTORS SHALL BE REUSED TO SUPPLY POWER TO THE PANEL.
 - PROVIDE NECESSARY FITTINGS TO ROUTE CONDUIT TO NEW PANEL LOCATION WHEN TRANSITIONING FROM BELOW GRADE TO ABOVE GRADE, PVC COATED FITTINGS SHALL BE USED.
 - PROVIDE JUNCTION BOXES AT FLOW METER AND PRESSURE TRANSDUCER FOR PERFORMING TERMINATIONS REQUIRED FOR INSTRUMENTS.
 - ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL. UNDERGROUND CONDUIT SHALL BE SCH. 40 PVC. CONDUIT INSTALLED LESS THAN 18" FROM SURFACE OR WHEN TRANSITIONING FROM BELOW GRADE TO ABOVE GRADE SHALL BE PVC COATED RIGID STEEL CONDUIT.
 - SCADA CURRENTLY NOT OPERATIONAL. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL CONNECTIONS AND TERMINATIONS FOR PLUG TO OPERATE AS IT IS CURRENTLY.



ALTO LAKES WATER DISTRIBUTION IMPROVEMENTS B

214 LAKESHORE ALTO, NM 88312 (575) 336-4333

PROMPT PAYMENT ACT-FORTY-FIVE (45) DAYS AFTER PRESENTATION OF THE APPLICATION FOR PAYMENT TO THE OWNER WITH ENGINEER'S RECOMMENDATION, THE AMOUNT RECOMMENDED WILL BECOME DUE, AND WHEN DUE, WILL BE PAID BY THE OWNER TO THE CONTRACTOR.



NO.	DATE	DESCRIPTION

ISSUING OFFICE: EL PASO, TX PROJECT NO: 5256.13

DEER VALLEY DR EXISTING IRRIGATION PUMP STATION ELECTRICAL RELOCATION