### **LATIGO TRAILS - FILING NO. 9**

A PARCEL OF LAND LOCATED IN THE SOUTH QUARTER OF SECTION S17 TOWNSHIP 12 SOUTH, RANGE 64 WEST OF P.M., EL PASO COUNTY, STATE OF COLORADO

SITE

#### STANDARD NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS PUBLIC UTILITY PLAN

- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MARUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITE

- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.

- 9. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS, PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- 10. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- 11. SIGHT MISIBILITY TRIANGLES ARE IDENTIFIED IN THE PLANS SHALL BE PROMODED AT ALL INTERSECTIONS, OBSTRUCTIONS GREATER THAN 16 INCHES ABOVE FLOWLINE ARE NOT ALLOWED IN SIGHT TRIANGLES.
- 12. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS AND MUTCO CRITERIA.
- 13. CONTRACTOR SHALL OBTAIN ANY PERHITS REQUIRED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERHITS.
- THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWENER/DEVELOPER SHALL OUTAIN WRITTEN PERMISSION AND EXCELENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.
- 15. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.

#### **ABBREVIATIONS**

AC	ACRE ALGEBRAIC DIFFERENCE	FIL	FLOWLINE FILING	R
AD		FO	FIBER OPTIC CABLE	5
AH	AHEAD	GB	GRADE BREAK	S
ARCH	ARCHITECT			5
ASCE	AMERICAN SOCIETY OF CIVIL	GE.	GAS EASEMENT GEOGRAPHIC INFORMATION	51
	ENGINEERS	CIS		5
ASSY	ASSEMBLY	-	SYSTEM	5
AVE	AVENUE	CL.	GAS LINE	
DD	BOX BASE	CPS	GLOBAL POSITIONING SYSTEM	
BK	BACK	CV	GATE VALVE	5
YCOM	HOUNDARY	HHP	HOT HITUMINOUS PAVEMENT	11
BOP	BOTTOM OF PIPE	HC	HANDICAP	TI
DOA	DLOW OFF VALVE	HDC	HIGH DEFLECTION COUPLING	TE
HFV	HUTTERFLY VALVE	HDPC	HIGH DENSITY POLYETHYLENE	Tt.
BLVD	BOULEVARD	HGL.	HYDRAULIC GRADE LINE	Th
DW	DOTTOM OF WALL	HMA	HOT MIX ASPHALT	TC
CAG	CURB & GUTTER	HOA	HOME OWNERS ASSOCIATION	10
CATV	CABLE TELEVISION	HP	HIGH POINT	TO
CB	CATCH BASIN	HR	HOUR	TC
CHC	CONCRETE HOX CULVERT	1_	INLET	10
CDOT	COLORADO DEPARTMENT OF	IC.	IRRIGATION EASEMENT	TV
	TRANSPORTATION	INT	INTERSECTION	n
CDS	CUL-DE-SAC	INV	INVERT	U
CF	CUBIC FOOT	IRR	IRRIGATION	
CFS	CUBIC FEET PER SECOND	KD	KICK (THRUST) BLOCK	U
CIP	COMPLETE IN PLACE	LH	POUND	U
CL	CENTER LINE	LE	LANDSCAPE EASEMENT	U
CLOMR	CONDITIONAL LETTER OF MAP	L	LINEAR FOOT	VC
	REVISION	LN	LANE.	V
CLR	CLEAR	LOMR	LETTER OF MAP REVISION	VF
CMP	CORRUGATED METAL PIPE	LP	LOW POINT	vi
co	CLEAN OUT	LS	LUMP SUM	
cocs	CITY OF COLORADO SPRINGS	LT	LEFT	W
CONC	CONCRETE	MAX M/D	MAXIMUM MOISTURE DENSITY	w
CSP	CIRCLE' CORRUGATED STEEL PIPE	MDOP	MASTER DEVELOPMENT	w
CSU	COLORADO SPRINGS UTILITIES	MUUI	DRAINAGE PLAN	W
CT	COURT SPRINGS UTILITIES	мн	MANHOLE PLAN	W
CTRB	CONCRETE THRUST REDUCER	MIN	MINIMUM	W
CIND	BLOCK	MS	MOUNTABLE SIDEWALK	w
CY	CUHIC YAND	N	NORTH	w
DDPS	DRAINAGE BASIN PLANNING	NRCP	NON-REINFORCED CONCRETE	Y
00. 0	STUDY		PIPE.	
DE	DRAINAGE EASEMENT	900	OFFICIAL DEVELOPMENT PLAN	
DIA	DIAMETER	OHE	OVERHEAD ELECTRIC	
DIP	DUCTILE IRON PIPE	OHU	OVERHEAD UTILITY	
DK	DRIVE:	PC	POINT OF CURVATURE	
DRC	DESIGN REVIEW COMMITTEE	PCC	POINT OF COMPOUND	
DU	DWELLING UNITS		CURVATURE	
DY	DAY	PCR	POINT OF CURR RETURN	
E	EAST	POP	PRELIMINARY DEVELOPMENT	
	EACH		PLAN	
		PE	PROFESSIONAL ENGINEER	
E.CL.	ENERGY GRADE LINE	Pt		
ECL	ELEVATION	PI	POINT OF INTERSECTION	
ELEC ELEC	ELECTRIC	PKWY	PARKWAY	
ELEC ELEC	ELEVATION ELECTRIC EDGE OF ASPHALT	PKWY PL	PARKWAY PROPERTY LINE	
EA ECL ELEC EDA EPC	ELEVATION ELECTRIC FDGE OF ASPHALT EL PASO COUNTY	PKWY PL PR	PARKWAY PROPERTY LINE PROPOSED	
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MERIDIAN SERVICE METROPOLITAN DISTRICT. cotection District 7030 Old Meridian Road Falcon, CO. 80831 WATER INSTALLATION CORROSION CONTROL REQUIREMENTS: SEE PLAN FOR PLACEMENT 719-495-4050  $\mathfrak{M}$ 

Call before you dig.

CONTACTS:

UNTL SUCH TWE AS THESE CRAMMASS ARE APPROPRIE ENFERNO APPROPRIE ENFERNO APPROPRIE NOR USE CRESCHATTO BY WHITEN AUTH-ROZATOR.

BRJW, LLC 101 N. CASCADE, SUITE 2 COLORADO SPRINGS, CO 80 ATTN: BO3 IRWN P~(719)-475-7474

J-R ENGINEERING

Cortamisl 338-740-9353 • Cobrash Springs Fort Colors 970-456-5555 • mm/progreeing

ENGINEER ASSESSED

FALCON FIRE FPD 7030 N MERIDIAN RD FALCON, CD 80831 P~719-494-4050

DISTRICT / WATER PROVIDER:

PLANNING AND COUNTY DEVELOPMENT ATTN: BRAD WALTERS 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINCS, COLORADO 80910 P ~ (719) 520-6819

DEPARTMENT OF PUBLIC WORKS 3257 AKERS DR COLORADO SPRINGS, CO 80910 P ~ (719) 529-6460

ELECTRIC COMPANY

#### BASIS OF BEARING

THE SOUTH LINE OF SECTION 17, TOWNSHIP 12 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MINIBIAN, HINDS MONUMENTED AT THE SOUTHEAST CONNER BY A 3-1/4" ALUMINIUM CAP STAMPED TS 29404 2000° FLUCH WITH THE GROUND AND AT THE SOUTHEST CONNER BY A 2-1/2" ALUMINIUM CAP STAMPED "LS 25955 1996" 0.35" RELOW GROUND, HARMING MINISTSS'SS'S.

#### BENCHMARK

PP-07: NO. 4 REHAR LOCATED 1615' SOUTH OF INTERSECTION OF EASTONVILLE ROAD AND LATIGO BOULEVARD. 19' WEST OF 28508.7293//18266.5893, WEST OF RIGHT-07-WAY LINE OF CASTONVILLE ROAD. EL = 7076.92

#### OWNER/DEVELOPER STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND

09/09/22

AND ACQUACY OF THE DESIGN, DIMENSIONS, AND/OR CLEVATIONS

L BE CONFIRMED AT THE JOB SITE. THE DISTRICT THROUGH THE
OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR
LES AND/OR ACCURACY OF THE DOCUMENT.

1- 17th

DISTRICT ENGINEER

PCD FILE NO. SF-21-036

09/19/2022 DATE

9/19/2022

09/19/2022

PROJECT NUMBER:\_

#### EL PASO COUNTY STATEMENT

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR CENERAL CONFORMANCE WITH COUNTY DESIGN CRITICIA. THE COUNTY IS NOT RESPONSIBLE FOR PICK ACCURACY PAN ADSCRIPCT OF THE CECOLS, MICKEROLOGIS, AND/OR ELEVATIONS, WHICH SHALL RE CONFIRMED AT THE CIDE SHE. THE COUNTY THROUGH THE APPROVA OF THIS COOLDINAT ACCURACY OF THIS COUNTY OF THE CONFIRMED AND OR ACCURACY OF THIS COUNTY OF THE COUNTY THROUGH THE APPROVA OF THIS COUNTY OF THE COUNTY OF THE COUNTY OF THE CONFIRMED AND/OR ACCURACY OF THIS COCKNEY.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENCINERING CRITERIA MANUAL AS AMENDED.

NA CORROBANCE WITH COLLISCON 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE OAT SOMED OF THE CL. PASO CONTY DIGNOSTER CONSTRUCTION FOR A PERIOD OF 2 YEARS, THE PLANS WITH A PERIOD OF THE CL. PASO CONTY DIGNOSTER PLANS WILL NOT DO THE OFFIDIANT TO FOR APPROVAL, INCLUDING PAYMENT OF REVIEW PLES AT THE PLANSING AND COMMUNITY DEVILOPMENT.

JOSHUA PALMER, P.L.

COUNTY ENGINEER/ECM ADMINISTRATOR ENGINEER'S STATEMENT

ENGINEER'S STATEMENT

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IN PREPARATION OF THESE DETABLED PLANS AND SPECIALIONS.

BRYAN T. LAW, P.E. COLORADO P.C. 25043 FOR AND ON BEHALF OF JR ENGINEERING, LIGHT

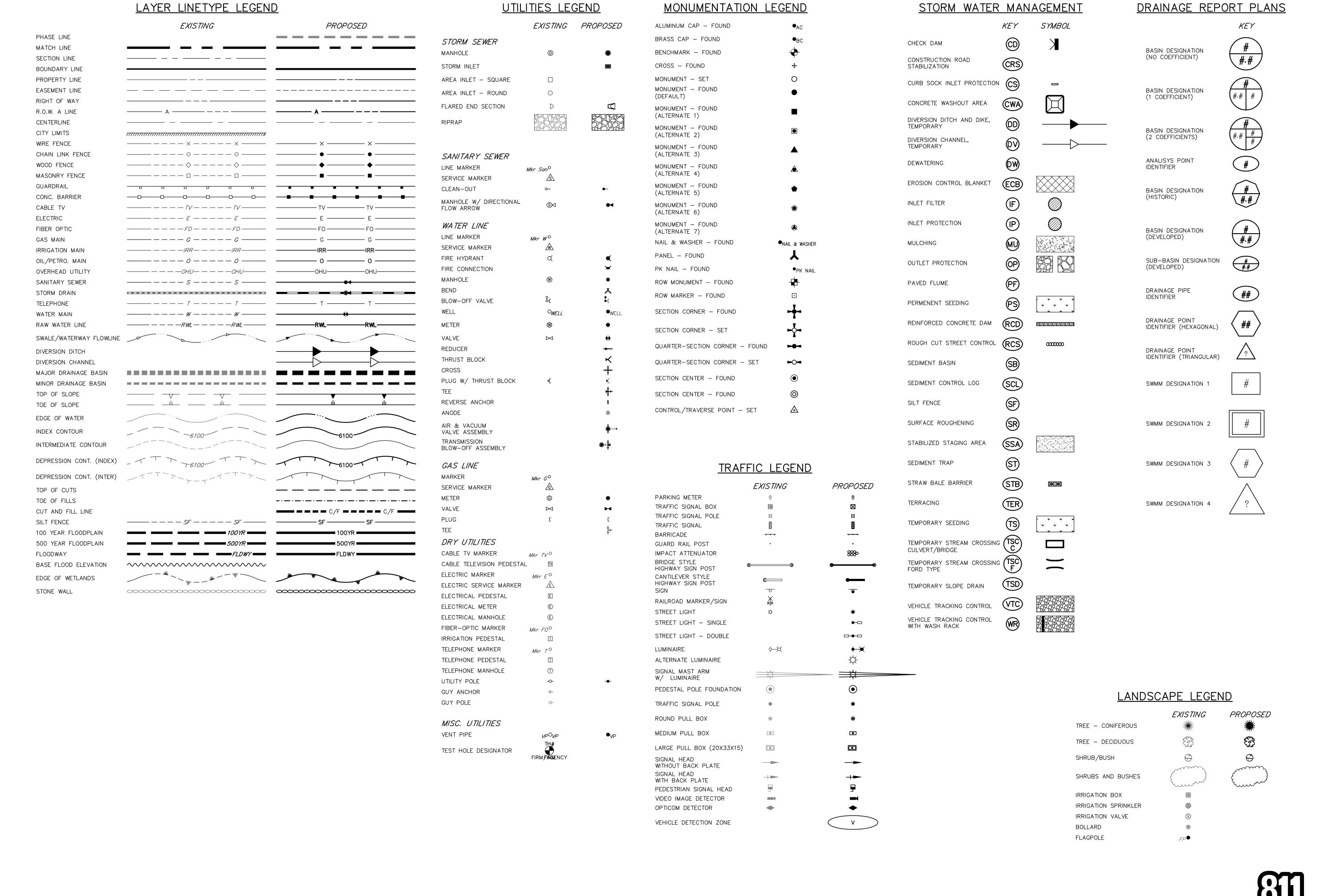
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TRAILS 9

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Know what's **below. Call** before you dig.

TRAIL TIGO SHEET 2 OF 9 JOB NO. **25175.02** 

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# METROPOLITAN DISTRICT GENERAL UTILITY NOTES FOR MERIDIAN SERVICE METROPOLITAN DISTRICT

## GENERAL NOTES

1.MERIDIAN SERVICE METROPOLITAN DISTRICT (MSMD) CONTACT TELEPHONE NUMBERS:

FALCON, CO 80831 PHONE 719-495-6567

- . ALL SANITARY SEWER, POTABLE WATER, RECLAIMED WATER, RAW WATER AND STORM DRAIN SYSTEMS SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE CURRENT MERIDIAN SERVICE METROPOLITAN DISTRICT (MSMD) SPECIFICATIONS. MSMD SPECIFICATIONS HEREINAFTER SHALL BE CONSISTENT WITH THE COLORADO SPRINGS UTILITIES SPECIFICATIONS (CSUS) FOR WASTEWATER LINE EXTENSION & SERVICE STANDARDS, 2010 EDITION AND THE WATER LIND EXTENSION & SERVICE STANDARDS, 2014 EDITION, UNLESS OTHERWISE NOTED AND APPROVED.
- 2. ALL PLANS ON THE JOB SITE SHALL BE SIGNED AND APPROVED BY MSMD AND MSMD'S ENGINEER. ANY REVISION TO THE PLANS SHALL BE APPROVED BY MSMD AND
- 3. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY MSMD. MSMD RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO MSMD STANDARDS AND SPECIFICATIONS.
- 4. ALL PIPE MATERIAL, BACKFILL, AND INSTALLATION SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE EL PASO COUNTY DEVELOPMENT SERVICES, COLORADO SPRINGS UTILITIES, MSMD, DISTRICT ENGINEER AND THE SOILS ENGINEER.
- 5. ALL UTILITY TRENCH BACKFILL SHALL BE PLACED PER THE APPROVED SOILS REPORT RECOMMENDATIONS AND UNDER THE DIRECTION OF THE SOILS ENGINEER TRENCH BACKFILL SHALL BE MOISTURE CONDITIONED TO WITHIN 2 PERCENT OF OPTIMUM AND COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM MODIFIED PROCTOR DRY DENSITY (ASTM D 1557) OR HIGHER STANDARD AS REQUIRED BY THE EL PASO COUNTY DEVELOPMENT SERVICES OR THE SOILS ENGINEER RECOMMENDATION. THIS SHALL INCLUDE ALL MAIN LINE, VALVES, FIRE HYDRANT RUNS, WATER & SEWER SERVICE LINES, CLEAN OUTS, INLET BOXES, MANHOLES, ETC. A QUALIFIED SOILS ENGINEER SHALL OBSERVE AND TEST THE BACKFILL AND COMPACTION OF ALL TRENCHES AND ALL REPORTS SHALL BE SUBMITTED TO
- 6. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT THE REVISIONS OF THE CONSTRUCTION DRAWINGS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE
- 7. ALL WATER AND SANITARY SEWER SERVICE LATERAL LOCATIONS SHALL BE CLEARLY MARKED BY STAMPING AN "S" FOR SEWER AND A "W" FOR WATER ON THE CURB FACE AT EACH SERVICE LATERAL LOCATION. ALL SLEEVE LOCATIONS SHALL BE CLEARLY MARKED BY STAMPING AN "X" ON THE CURB FACE. ALL PRIVATE IRRIGATION SLEEVES SHALL BE MARKED BY STAMPING AN "I" ON THE TOP OF THE SIDEWALK.
- 8. BENDS, DEFLECTIONS & CUT PIPE LENGTHS SHALL BE USED TO HOLD HORIZONTAL ALIGNMENT OF SEWER AND WATER LINES TO NO MORE THAN 0.5' FROM THE
- 9. AT ALL LOCATIONS WHERE CAP AND STUB IS NOTED ON DRAWINGS, PROVIDE A PLUG AT THE END OF THE PIPE JOINT NEAREST THE SPECIFIED STATION. PROVIDE A
- 10. ALL EXISTING UTILITY MAINS SHALL BE SUPPORTED AND PROTECTED IN PLACE AND FUNCTION CONTINUOUSLY DURING ALL CONSTRUCTION OPERATIONS. SHOULD A MSMD UTILITY FAIL OR BE DAMAGED AS A RESULT OF THE CONSTRUCTION OPERATION, IT SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR PER ALL MSMD SPECIFICATIONS. IN THE EVENT THE CONTRACTOR CANNOT IMMEDIATELY MAKE THE REPAIRS TO THE FAILED OR DAMAGED MSMD UTILITY TO THE SATISFACTION OF MSMD, MSMD MAY REPAIR OR CAUSE THE REPAIR AND BACK CHARGE ALL SUCH COSTS TO THE CONTRACTOR.
- 11. THE CONTRACTOR SHALL REPLACE OR REPAIR ANY AND ALL DAMAGE CAUSED BY THE CONTRACTOR DURING CONSTRUCTION ACTIVITIES TO ALL ABOVE OR BELOW GROUND IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO FENCES, LANDSCAPING, CURB, GUTTER, SIDEWALK, ASPHALT, ELECTRIC SYSTEMS, GAS SYSTEMS, TELEPHONE/TELEVISION SYSTEMS, ETC.
- 12. A PRECONSTRUCTION CONFERENCE MEETING SHALL BE HELD AT THE PROJECT SITE A MINIMUM OF 7 DAYS BEFORE CONSTRUCTION BEGINS AND SHALL BE ATTENDED BY ALL REPRESENTATIVES RESPONSIBLE FOR CONSTRUCTION, INSPECTION, SUPERVISION, TESTING AND ALL OTHER ASPECTS OF THE WORK, THE CONTRACTOR SHALL NOTIFY MSMD AND ALL AFFECTED UTILITY COMPANIES ADJACENT TO THE PROPOSED UTILITY CONSTRUCTION A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION FOR SCHEDULING. THE CONTRACTOR SHALL SCHEDULE BI-WEEKLY CONSTRUCTION MEETINGS AT THE PROJECT SITE OR MORE FREQUENTLY AS DEEMED NECESSARY BY MSMD.
- 13. PRELIMINARY ACCEPTANCE SHALL BE DEFINED AS THE POINT IN TIME THAT MSMD ACCEPTS THE FACILITY FOR USE AND ALL SURFACE IMPROVEMENTS AND
- 14. FINAL ACCEPTANCE BY MSMD OF ANY UTILITY LINE OR SYSTEM SHALL NOT OCCUR UNTIL COMPLETION OF FINAL ASPHALT LAYERS AND/OR FINAL COMPLETION AND/OR RESTORATION OF ALL SURFACE IMPROVEMENTS. THE WARRANTY PERIOD FOR ALL FACILITIES SHALL BE 12 MONTHS COMMENCING WITH FINAL ACCEPTANCE. MSMD MAY REQUIRE RETESTING OF THE UTILITY SYSTEM PRIOR TO FINAL ACCEPTANCE.
- 15. INSPECTION FEES: CALL MSMD FOR FEE SCHEDULE, OR VIEW AT WWW.MERIDIANRANCHMETRO.ORG.
- 16. ALL COMMERCIAL/BUSINESS DEVELOPMENTS SHALL HAVE A MINIMUM EIGHT INCH DIAMETER WATER MAIN LOOPED THROUGH THE PROPOSED PROPERTY WITH GATE VALVES LOCATED WHERE THE MAIN ENTERS AND EXITS THE PROPERTY AND A MINIMUM EIGHT INCH SANITARY SEWER MAIN WITH A MANHOLE IN THE STREET WHERE THE MAIN ENTERS THE PROPERTY. THE EXTENT OF THE MAINS SHALL BE MARKED WITH THE APPROPRIATELY COLORED CARSONITE MARKERS AND
- 17. AFTER REVIEW AND APPROVAL OF PLANS FOR THE EXTENSION OF LINES, FACILITIES, AND/OR SERVICES, CONSTRUCTION MUST BE COMPLETED WITHIN 18 MONTHS FOR RESIDENTIAL SUBDIVISIONS AND 12 MONTHS FOR ANY COMMERCIAL INSTALLATIONS. IF WORK IS NOT COMPLETED WITHIN THIS TIME FRAME AND NO EXTENSION HAS BEEN GIVEN, THEN ALL PLANS MUST BE RE-SUBMITTED TO MSMD FOR REVIEW (WITH NEW FEES PAID) AND APPROVAL.
- 18. PUMPING OR BYPASS OPERATIONS SHALL BE REVIEWED AND APPROVED BY MSMD AND THE ENGINEER OF RECORD PRIOR TO EXECUTION.
- 19. ANY FACILITIES OUTSIDE OF PAVED ROADS MUST BE MARKED APPROPRIATELY WITH CARSONITE MARKERS AT EACH VALVE, MANHOLE, TEST STATION, AND ANY OTHER FACILITIES MSMD DEEMS NECESSARY.

## WATER NOTES

- 27. ALL WATER MAIN PIPES SHALL BE AWWA C900 PVC, PRESSURE CLASS 200 OR MSMD APPROVED EQUAL, INSTALLED PER MANUFACTURERS' SPECIFICATIONS. ALL WATER MAIN FITTINGS SHALL HAVE MECHANICAL RESTRAINTS AND THRUST BLOCKS. ALL WATER MAIN PIPES SHALL HAVE A MINIMUM COVER DEPTH OF 5'-6" INSTALLED WITH A COATED 12 GAUGE U.F. TRACER WIRE.
- 28. ALL LOTS SHALL RECEIVE A MINIMUM 3/4 " DIAMETER HDPE OR COPPER WATER SERVICE INSTALLED PER APPROVED PLANS CSUS AND MSMD SPECIFICATIONS. HDPE WATER SERVICE SHALL BE HDPE SIDR-7 PE4710 RATED FOR 200 PSI WITH THE MARKING SIDR-7, AWWA C901, NSF61 PE4710. WATER SERVICES SHALL BE INCREASED IN SIZE TO 1" DIAMETER WHERE THE RESIDENTIAL SERVICE WATER PRESSURE IS LESS THAN 40 PSI AT 10 GPM DEMAND AND ALL 1/3 ACRE OR GREATER LOTS SHALL RECEIVE A MINIMUM 1" DIAMETER WATER SERVICE AS INDICATED ON THE PLANS. THE CURB STOP VALVE AND BOX AT THE END OF EACH WATER SERVICE SHALL BE "LOCATED" WITH A 2" X 4" PIECE OF WOOD EXTENDED 4' ABOVE FINISH GRADE, PAINTED BLUE, DIRECTLY BEHIND THE CURB STOP VALVE AND BOX. ALL TRACER WIRE CONNECTIONS SHALL BE MADE WITH DBY (DIRECT BURY YELLOW) WATER TIGHT STYLE ELECTRICAL CONNECTORS OR EQUAL.
- 29. IF HDPE WATER SERVICES ARE TO BE USED THEY SHALL INCLUDE A ROMAC 202 NS OR EQUAL TAPPING SADDLE AND A CURB STOP VALVE INSIDE A CURB STOP BOX AT THE END OF THE WATER SERVICE. ALL CORPORATION STOPS SHALL BE AY MCDONALD MODEL NUMBER 74701B-33 FOR SIDR HDPE SAME SIZE AS THE WATER SERVICE, ALL CURB STOP VALVES SHALL BE 3/4" AY MCDONALD MODEL NUMBER 76100 (FLARE X FLARE) OR EQUIVALENT WITH A MAIN SIDE ONE PACK JOINT (PEP) ADAPTOR AY MCDONALD MODEL NUMBER 74755-33 UNLESS OTHERWISE NOTED ON THE PLANS. ALL 1" DIAMETER WATER SERVICES SHALL RECEIVE A 1" INLET BY 34" OUTLET CURB STOP VALVE.
- 30. IF COPPER WATER SERVICES ARE TO BE USED THEY SHALL INCLUDE A ROMAC 202 BS OR EQUAL TAPPING SADDLE AND A CURB STOP VALVE INSIDE A CURB STOP BOX AT THE END OF THE WATER SERVICE. ALL CURB STOP VALVES SHALL BE ¾" UNLESS OTHERWISE NOTED ON THE PLANS. ALL 1" DIAMETER WATER SERVICES SHALL RECEIVE A 1" INLET BY ¾" OUTLET CURB STOP VALVE MANUFACTURED BY AY MCDONALD MODEL NUMBER 6104 (FLARE X FLARE) OR EQUIVALENT.
- AND RAW WATER VALVES NOT WITHIN PAVED STREETS SHALL BE MARKED WITH CARSONITE MARKERS. ALL RAW WATER VALVES SHALL OPEN COUNTERCLOCKWISE
- 32. ALL POTABLE WATER, RAW WATER AND NON-POTABLE WATER VALVES 14" OR GREATER SHALL BE BUTTERFLY VALVES WITH A SIDE OPERATING NUT. THE
- 34. FIRE HYDRANTS SHALL BE AVK MODEL 2780 NOSTALGIC (PART # 27ND-023XX-0010B-AN) OPEN RIGHT WITH A  $1\frac{1}{2}$ " PENTAGON OPERATING NUT AND SERVICE CAPS, STANDARD  $4\frac{1}{7}$ " PUMPER NOZZLE WITH A THREAD PATTERN OF  $5-\frac{3}{8}$ " - 6 TPI (THREAD PER INCH) ALONG WITH TWO SANDARD  $2\frac{1}{2}$ " NST (NATIONAL STANDARD
- 35. ALL DUCTILE IRON PIPES, FITTINGS, VALVES AND FIRE HYDRANTS SHALL BE WRAPPED WITH POLYETHYLENE TUBING, DOUBLE BONDED AT EACH JOINT AND
- 36. ALL DUCTILE IRON PIPE AND FITTINGS LESS THAN 12 INCHES IN DIAMETER SHALL HAVE CATHODIC PROTECTION USING TWO NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 400 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING. ALL DUCTILE IRON PIPE AND FITTINGS 12 INCHES AND GREATER SHALL HAVE CATHODIC PROTECTION USING TWO NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 300 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING. CATHODIC
- 37. ALL EXISTING WATER UTILITY MATERIAL REMOVED AS PART OF THE WORK ON THESE DRAWINGS SHALL BE RETURNED TO MSMD AS REQUESTED.

A.THE CONTRACTOR SHALL NOTIFY MSMD A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF ANY TESTING TO ALLOW MSMD

B.ALL SECTIONS OF WATER LINES MUST FIRST PASS A CHLORINE TEST WITH A MINIMUM OF 50 PARTS PER MILLION OF RESIDUAL AFTER 24 HOURS. THE WHOLE SECTION OF LINE BEING TESTED MUST BE RE-CHLORINATED AND RE-TESTED IF IT DOES NOT PASS. ONCE THE SECTION OF LINE BEING TESTED PASSES THE CHLORINE TEST THE LINE MUST BE FLUSHED AND BAC-T TESTED PER CSUS. ONCE THE BAC-T TEST PASSES, THE SECTION OF LINE MAY BE PRESSURE TESTED. WATER FLUSHED

C.ALL SECTIONS OF WATER LINES MUST PASS A TWO HOUR 200 PSI HYDROSTATIC PRESSURE TEST. THE PRESSURE SHALL NOT DECREASE BY MORE THAN 5 PSI DURING THE DURATION OF THE TEST. NO WATER SHALL BE ADDED DURING THE PRESSURE TEST. IF THE PRESSURE TEST FAILS, THE SECTIONS OF LINE THAT FAILED MUST AGAIN PASS THE CHLORINE TEST, BE FLUSHED, AND PASS THE BAC-T TEST PRIOR TO CONDUCTING A NEW PRESSURE TEST.

E.SECTIONS OF WATER LINES SHALL BE LEFT PRESSURIZED ONCE THE WATER LINES HAVE PASSED ALL TESTING DURING THE REMAINING CONSTRUCTION ACTIVITIES.

39. COMMENCEMENT OF USE OF WATER LINES AND/OR SYSTEMS. NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL:

A.MSMD HAS APPROVED ALL TESTS AND COMPACTION TESTING REPORTS, AND AS-BUILT DRAWINGS ARE SUBMITTED TO AND APPROVED BY MSMD.

B.ALL WATER LINES ARE COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO USE OF THE FACILITY.

- C.ALL EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED TO MSMD, AND RECORDED.
- 40. ANY WATER SHUT DOWNS THAT NEED TO OCCUR ON THE CRITICAL LINES AS DEFINED BY THE MSMD SOP (STANDARD OPERATION PROCEDURE) MANUAL SHALL BE
- 41. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONNECTIONS TO EXISTING WATER MAINS WITHOUT A SHUTDOWN OF THE WATER SYSTEM. IN THE EVENT THAT A SHUTDOWN OF A WATER SYSTEM IS NECESSARY, THE CONTRACTOR SHALL ACQUIRE A PERMIT FROM MSMD.
- 42. ALL NON-POTABLE WATER MAINS SHALL BE AWWA NON-POTABLE STANDARD (PURPLE PIPE) C900 PVC, PRESSURE CLASS 200 OR MSMD APPROVED EQUAL, INSTALLED PER MANUFACTURERS' SPECIFICATIONS. ALL WATER MAIN FITTINGS SHALL HAVE MECHANICAL RESTRAINTS AND THRUST BLOCKS. ALL WATER MAIN PIPES SHALL HAVE A MINIMUM COVER DEPTH OF 5'-6" INSTALLED WITH A COATED 12 GAUGE U.F. TRACER WIRE.
- 44. IRRIGATION SERVICES SHALL HAVE A STOP AND WASTE CURB STOP VALVE INSTALLED ALONG WITH A TRACER WIRE EXTENDING BACK TO THE MAIN LINE.

31. ALL POTABLE WATER VALVES SHALL OPEN CLOCKWISE WITH THE VALVE OPERATING NUT INSTALLED LOW NEAR THE MAIN LINE AND PAINTED RED. ALL POTABLE WITH THE VALVE OPERATING NUT INSTALLED HIGH WITHIN 1' FROM THE SURFACE AND PAINTED BLACK.

OPERATIONAL DEPTH OF THE POTABLE WATER VALVES SHALL NOT EXCEED 6' IN OVERALL DEPTH NOR SHALL IT BE CLOSER TO THE SURFACE THEN 4'

33. FIRE HYDRANT LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE APPLICABLE FIRE DEPARTMENT AUTHORITY.

THREAD) SIZE NOZZLES. HYDRANTS SHALL BE PAINTED WITH RUSTOLEUM SAFETY YELLOW.

ELECTRICALLY ISOLATED. BONDING AND ANODE CONNECTIONS SHALL BE THOROUGHLY COATED WITH BITUMINOUS COATINGS.

PROTECTION AND ANODES SHALL BE INSTALLED PER MSMD SPECIFICATIONS.

38. TESTING OF FACILITIES:

STAFF TO BE PRESENT AT ALL TIMES DURING TESTING. ALL TESTING SHALL BE PER MSMD SPECIFICATIONS OR CSUS, WHICHEVER IS GREATER.

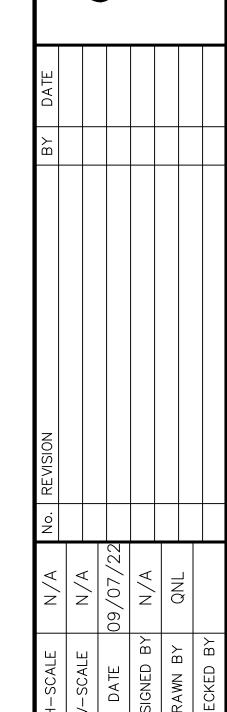
FROM THE WATER SYSTEM MUST BE PROPERLY DE-CHLORINATED DURING THE FLUSHING PROCESS

D.ONCE WATER SERVICES ARE INSTALLED A SECOND WATER PRESSURE TEST MUST BE DONE TO A WORKING PSI OF 150 PSI FOLLOWING THE ABOVE TESTING

COORDINATED WITH MSMD STAFF FOR NIGHT TIME SHUT DOWNS.

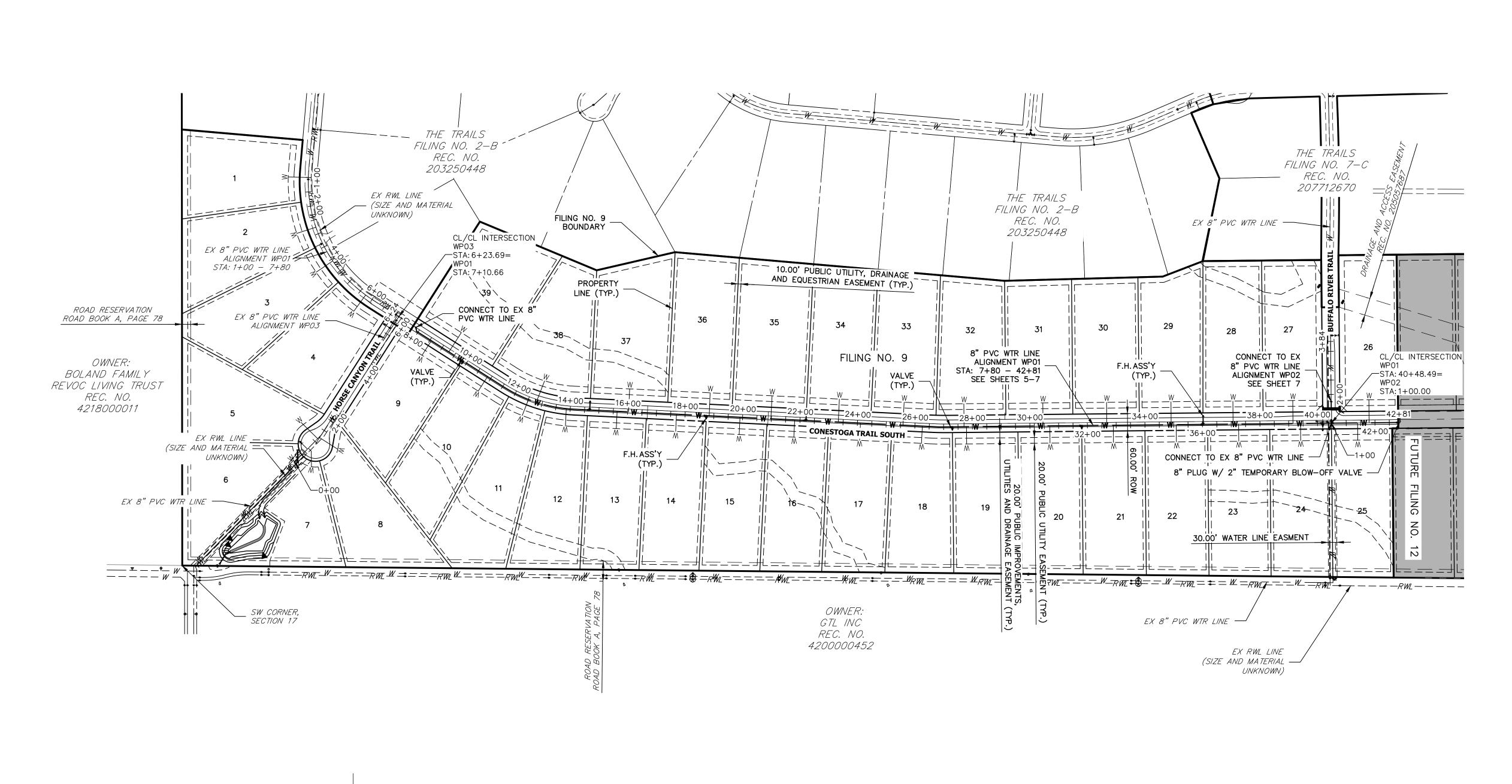
- 43. ALL NON- POTABLE WATER VALVES SHALL OPEN COUNTER CLOCKWISE WITH A VALVE EXTENSION, EXTENDING TO WITHIN 1' OF THE SURFACE AND PAINTED PURPLE
- THE ABOVE GUIDELINES ARE SUBJECT TO CHANGE AT ANY TIME.



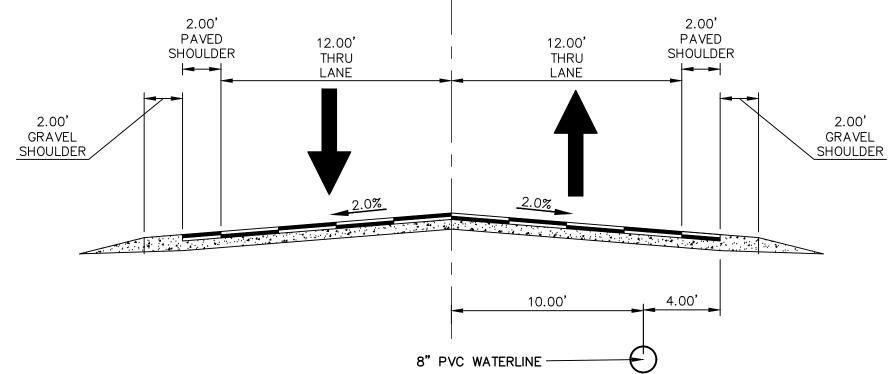


SHEET 3 OF 9

JOB NO. **25175.02** 



WATE	R SERVICE LINE TA	AP LOCATIONS
ID NO.	PIPE & STATION	PIPE ALIGNMENT
LOT 1	1+00.00	WP01
LOT 2	2+75.84	WP01
LOT 3	4+07.31	WP01
LOT 4	5+73.03	WP01
LOT 5	1+13.46	WP03
LOT 6	0+00.00	WP03
LOT 7	0+66.85	WP03
LOT 8	1+20.05	WP03
LOT 9	8+55.14	WP01
LOT 10	10+86.99	WP01
LOT 11	12+50.57	WP01
LOT 12	13+86.19	WP01
LOT 13	15+63.23	WP01
LOT 14	17+69.98	WP01
LOT 15	19+91.08	WP01
LOT 16	21+81.46	WP01
LOT 17	24+10.48	WP01
LOT 18	26+25.89	WP01
LOT 19	27+79.51	WP01
LOT 20	30+69.39	WP01
LOT 21	32+90.14	WP01
LOT 22	35+08.89	WP01
LOT 23	37+25.89	WP01
LOT 24	39+41.19	WP01
LOT 25	41+39.63	WP01
LOT 26	41+79.73	WP01
LOT 27	39+14.92	WP01
LOT 28	37+06.74	WP01
LOT 29	34+91.41	WP01
LOT 30	32+67.39	WP01
LOT 31	30+45.73	WP01
LOT 32	27+71.06	WP01
LOT 33	25+58.58	WP01
LOT 34	23+33.21	WP01
LOT 35	20+98.73	WP01
LOT 36	18+83.91	WP01
LOT 37	16+03.03	WP01
LOT 38	12+79.25	WP01
LOT 39	9+27.69	WP01



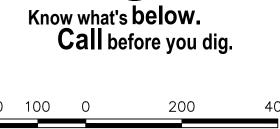
WATER X-SECTION SCALE: 1' = 5'

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

## WATER SERVICE NOTES

1. ALL WATER SERVICE PIPES ARE TO BE HDPE W/ FLARED FITTING. 2. ALL WATER SERVICE CURB STOP BOXES MUST BE RAISED A MINIMUM OF 2" ABOVE FINISHED GRADE WITH 1.5" PVC INSIDE THE STOP BOX AS TO KEEP THE VALVE EASILY ACCESSIBLE.

3. WATER SERVICE SHALL BE 1" MINIMUM DIAMETER.



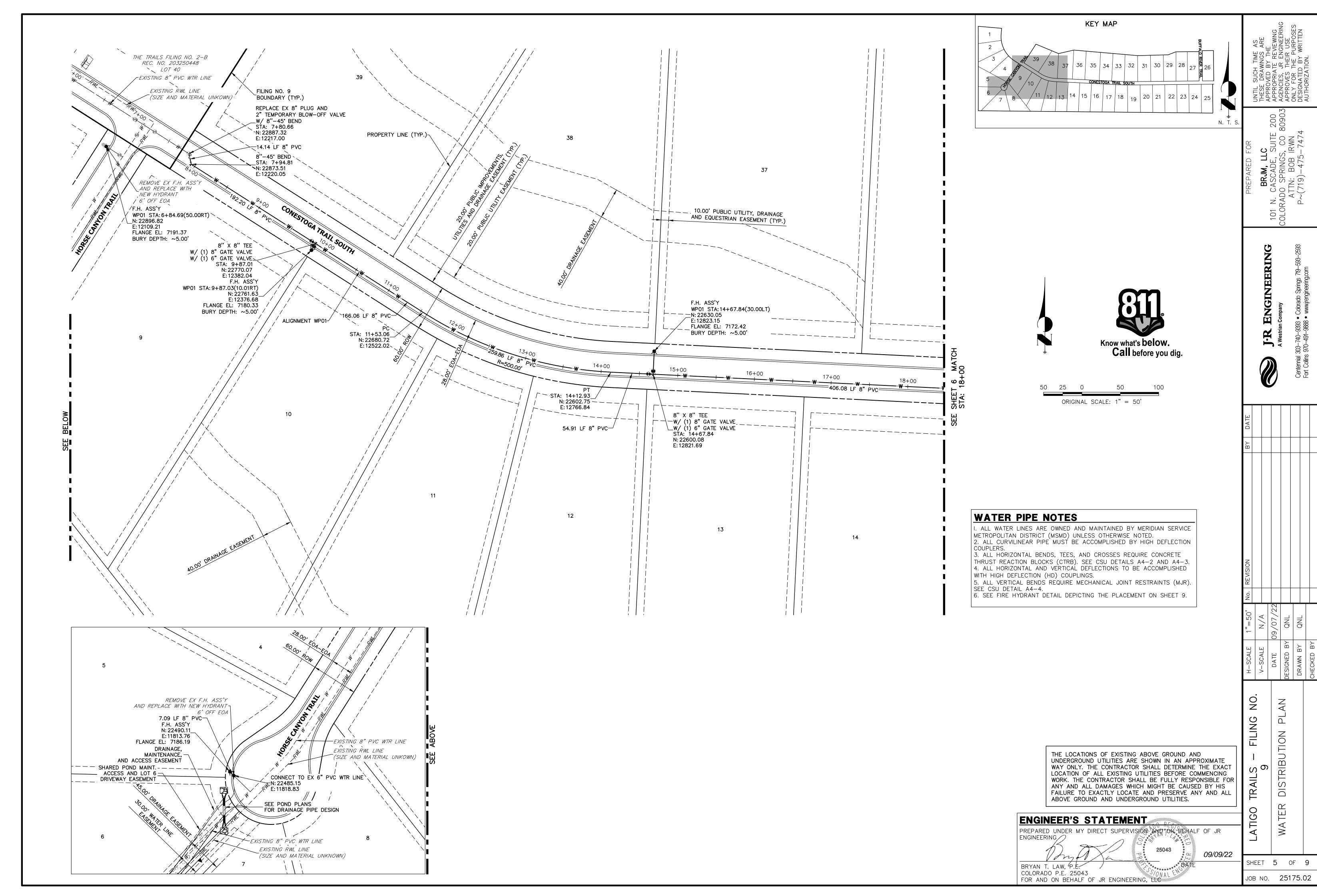
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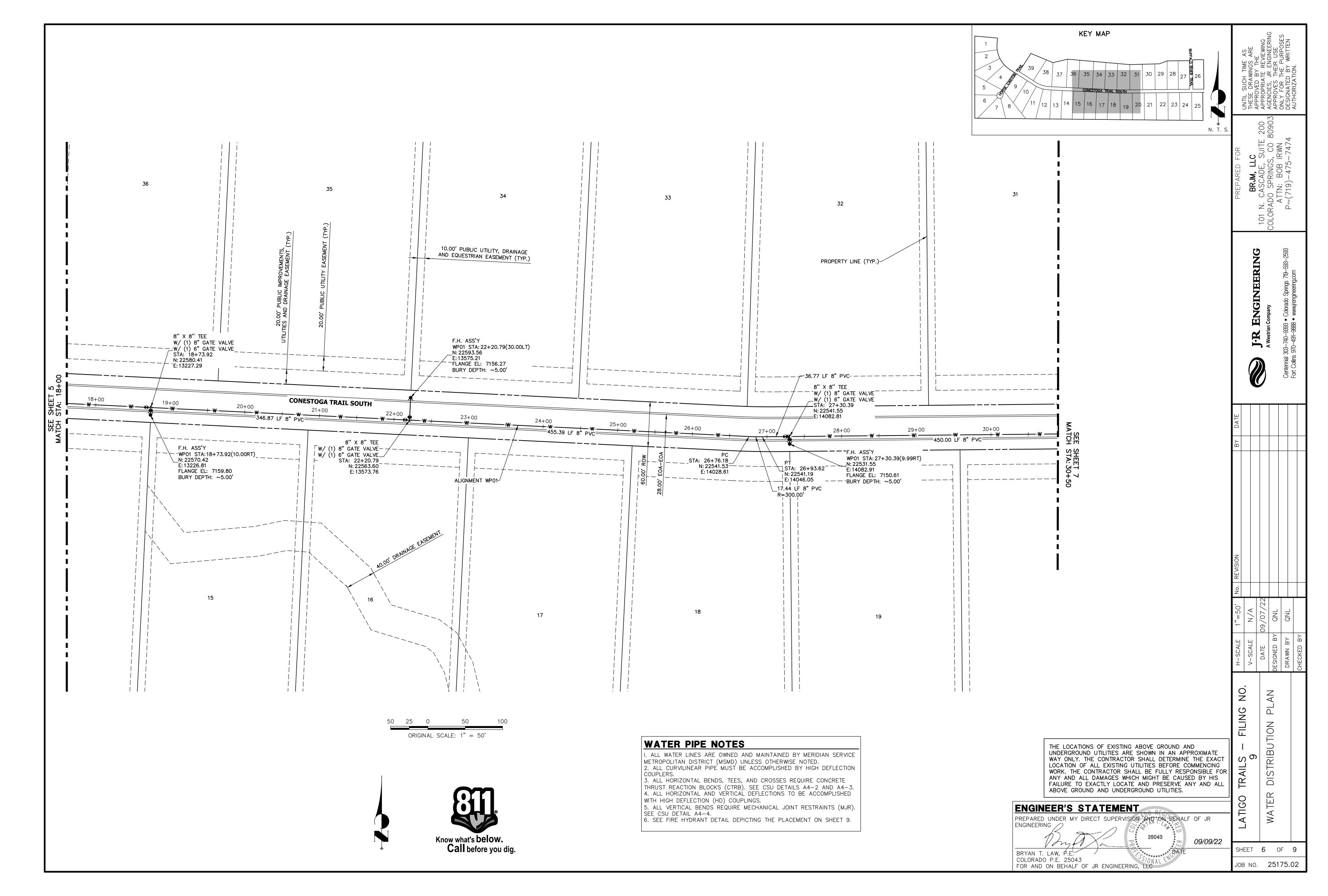
200	100	0		200		400
	ORIG	INAL	SCALE:	1" =	200'	

ENGINEER'S STATEMENT	
PREPARED UNDER MY DIRECT SUPERVISION AND ON BEHALF ENGINEERING	OF JR
25043 25043	09/09/2
BRYAN T. LAW, P.E. COLORADO P.E. 25043 FOR AND ON BEHALF OF JR ENGINEERING, LUCINIANIANIANIANIANIANIANIANIANIANIANIANIA	

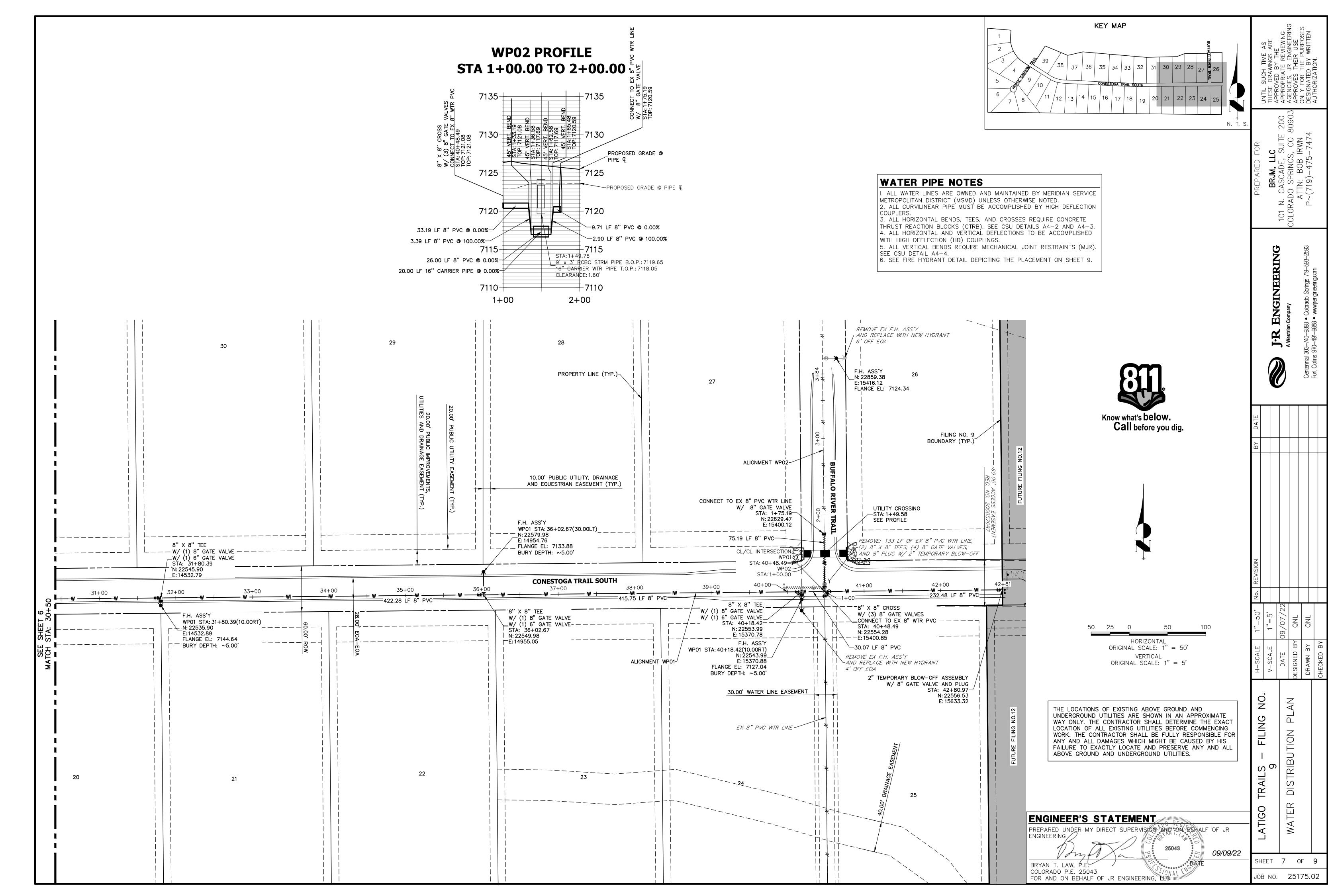
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JOB NO. **25175.02** 



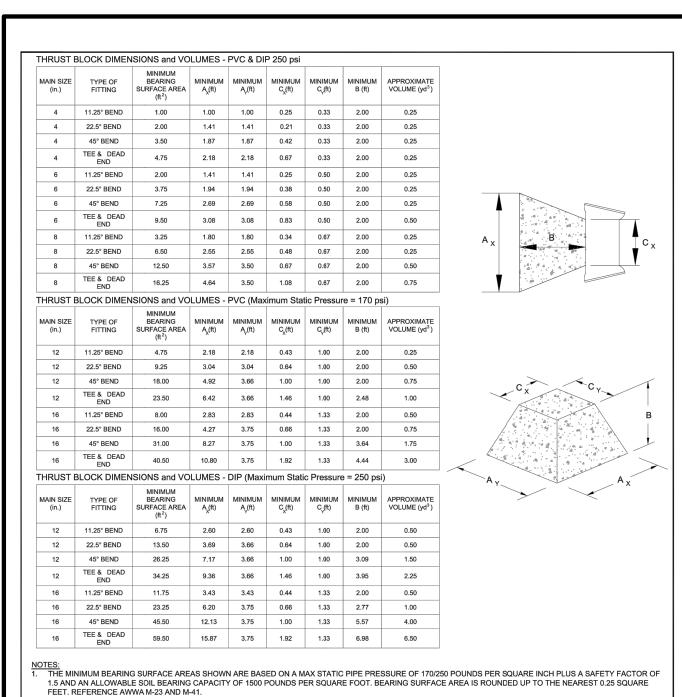


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THE DESIGN ENGINEER IS RESPONSIBLE FOR VERIFYING ASSUMPTIONS BASED ON ACTUAL SITE CONDITIONS. IF SITE CONDITIONS VARY FROM THE ASSUMPTIONS THE DESIGN ENGINEER SHALL PROVIDE A SITE SPECIFIC DESIGN IN ACCORDANCE WITH AWWA M-23, PVC PIPE - DESIGN AND INSTALLATION AND AWWA M-41, DUCTILE-IRON PIPE AND FITTINGS. SITE SPECIFIC DESIGNS INCLUDING GEOTECHNICAL INFORMATION SHALL BE SUBMITTED TO COLORADO SPRINGS UTILITIES FOR

THE MINIMUM BEARING SURFACE AREA AND APPROXIMATE VOLUME OF CONCRETE SHALL BE SHOWN ON THE CONSTRUCTION PLANS FOR ALL CONCRETE THRUST BLOCKS. CONCRETE MIX SHALL BE PER MATERIAL CHAPTER 4.

THE APPROXIMATE VOLUMES SHOWN ARE BASED ON THE MINIMUM BEARING SURFACE AREA AND THE MINIMUM TRENCH DIMENSIONS. THE APPROXIMATE VOLUME

IS ROUNDED UP TO THE NEAREST 0.25 CUBIC YARDS.

THESE CHARTS MAY ONLY BE USED IF THE BLOCK HEIGHT (Ay) IS EQUAL TO OR LESS THAN ONE HALF THE TOTAL DEPTH (Ht) FROM THE FINISHED GRADE TO THE BOTTOM OF THE BLOCK. THE MINIMUM DIMENSIONS SHOWN ARE BASED ON A PIPE DEPTH OF 5 FEET. SEE DETAIL DRAWING A4-3.

A SITE SPECIFIC DESIGN SHALL BE REQUIRED FOR PIPES LARGER THAN 16 INCHES OR MAX STATIC PIPE PRESSURES GREATER THAN 250 POUNDS PER SQUARE

INCH. THE DESIGN ENGINEER HAS THE OPTION OF PROVIDING A SITE SPECIFIC DESIGN FOR PIPES SMALLER THAN 16 INCHES OR MAX STATIC PRESSURES LESS

CONCRETE THRUST REACTION BLOCKS

A4-2

DATED 03/2014

DATED 08/2020

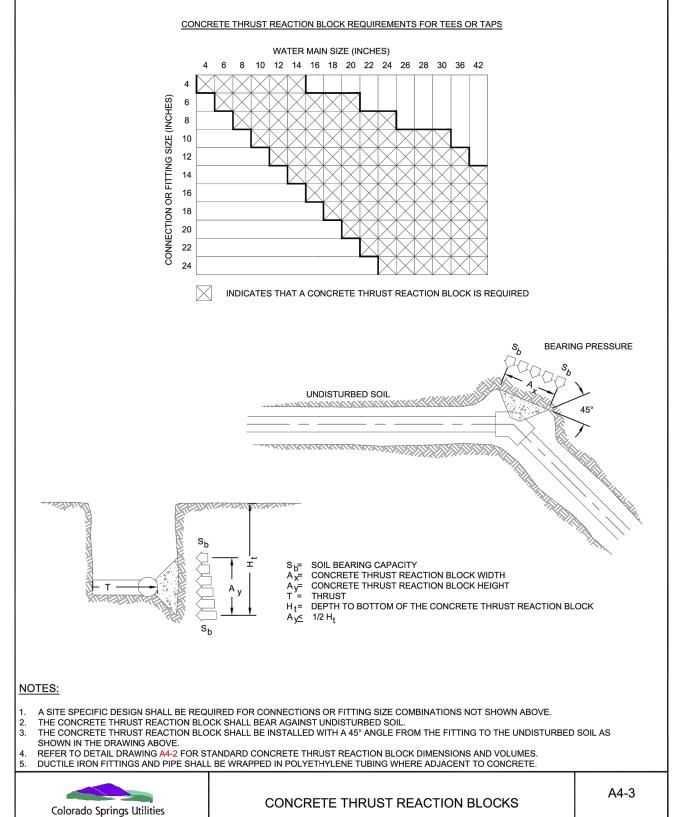
IS ROUNDED UP TO THE NEAREST 0.25 CUBIC YARDS.

Colorado Springs Utilities

Colorado Springs Utilities

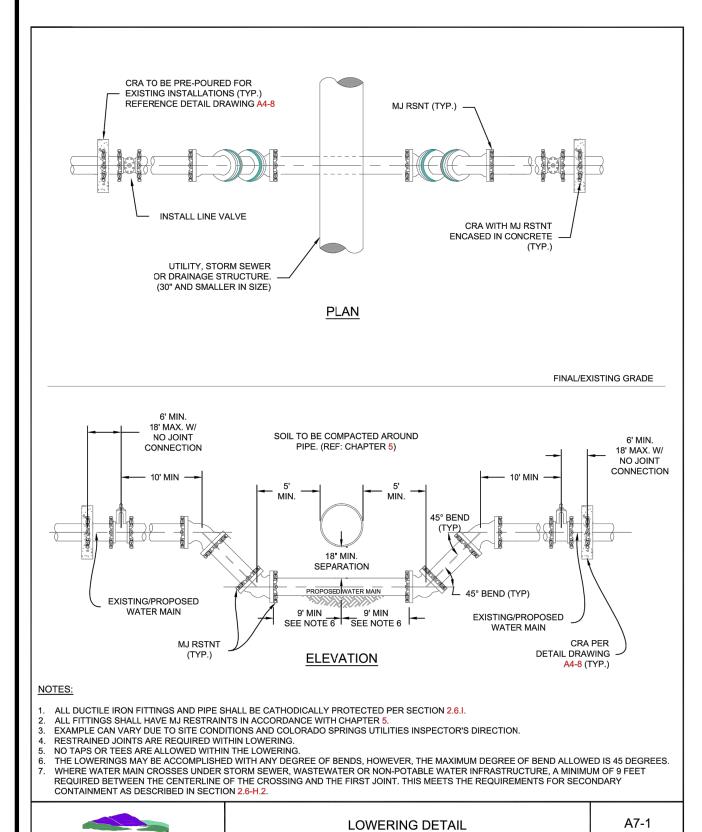
THAN 250 POUNDS PER SQUARE INCH.

ALL CALCULATIONS SHALL BE PROVIDED TO COLORADO SPRINGS UTILITIES FOR REVIEW.

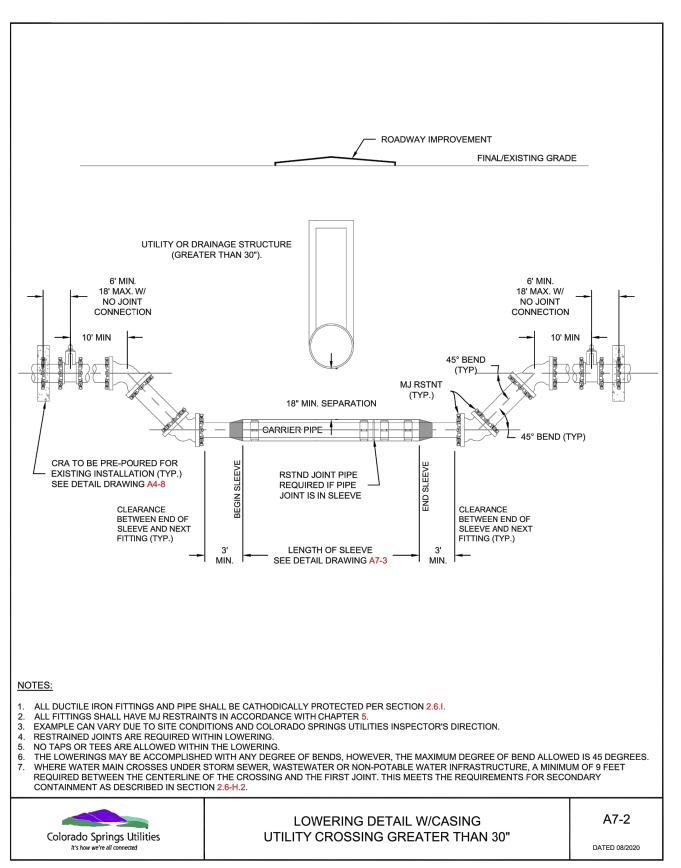


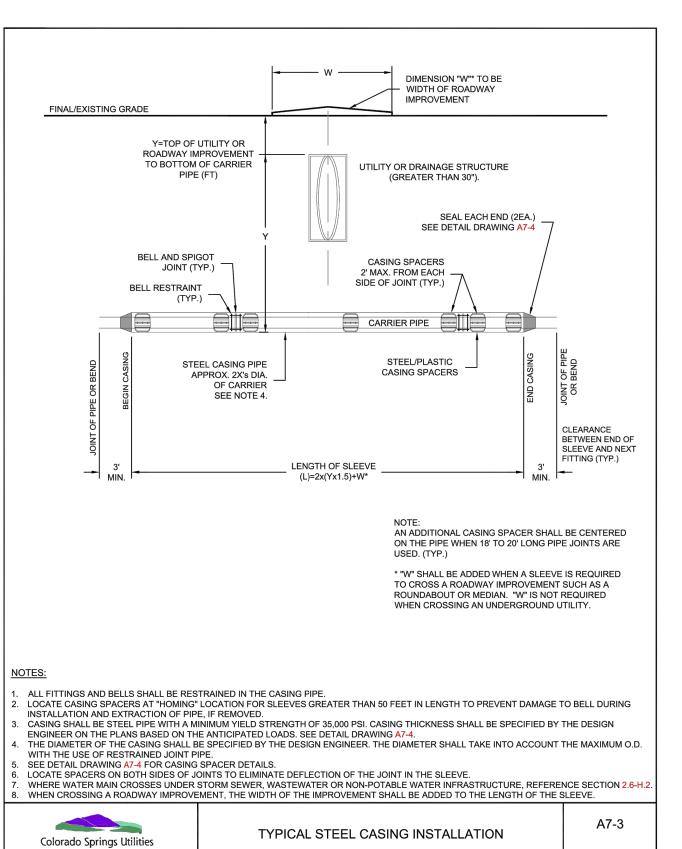
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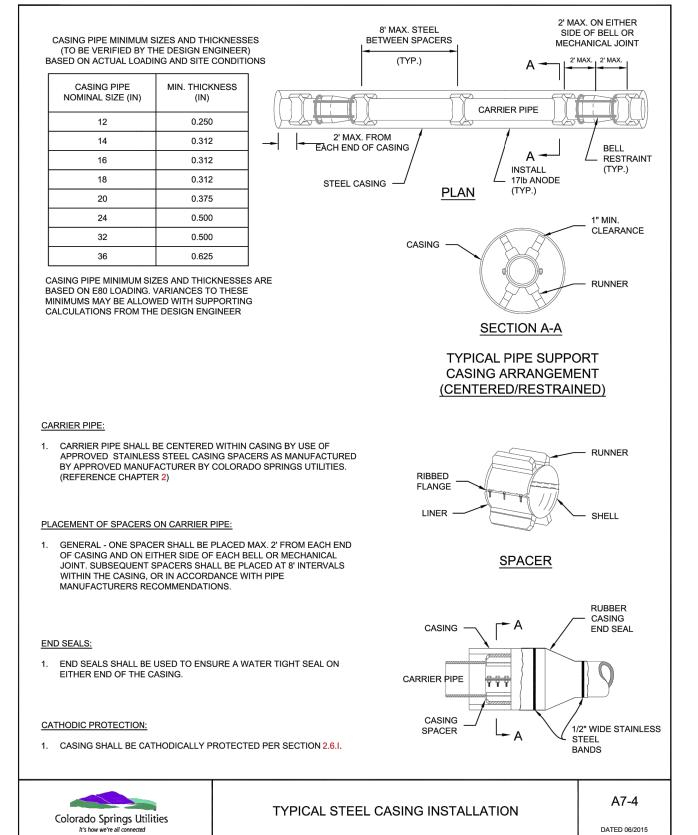
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PIF	E DIAMETER		45° BEND			2-1/2° BEN			1-1/4° BEN			END VALVE O	VALVES
MAX. S	TATIC PRESSURE	<100	100-150	150-200	<100	100-150	150-200	<100	100-150	150-200	<100	100-150	150-200
6 INCH	DUCTILE IRON AND PVC	6	9	12	3	5	6	2	3	3	49	73	97
8 INCH	DUCTILE IRON AND PVC	8	12	16	4	6	8	2	3	4	63	94	125
12 INCH	DUCTILE IRON AND PVC	12	17	23	6	8	11	3	4	6	89	133	177
16 INCH	DUCTILE IRON AND PVC	15	22	29	7	11	14	4	5	7	3SE	3SE	3SE
20 INCH	DUCTILE IRON AND PVC	18	26	35	9	13	17	4	6	8	REVEI	REVEI	REVEI
24 INCH	DUCTILE IRON AND PVC	20	30	40	10	15	20	5	7	10	CONCRETE REVERSE ANCHOR	CONCRETE REVERSE ANCHOR	CONCRETE REVERSE ANCHOR
30 INCH	DUCTILE IRON AND PVC	24	36	48	12	18	24	6	9	12	SONCI	SONC	SONC
36 INCH	DUCTILE IRON AND PVC	28	42	56	14	20	27	7	10	14	USE (	USE	USE
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2. LENGTH IS E DEPTH IS LE 3. APPROVED	GREATER THAN 200 P BASED ON MINIMUM 5 ISS THAN 5 FEET RES METHODS OF RESTR D PIPE LENGTH APPLI	FEET OF G TRAINED LI AINED PIPE	ROUND C ENGTH MU BEYOND	OVER ANI JST BE DE INITIAL FI	D SOIL C ESIGNED TTING SI	OMPACTE BY THE D HALL BE IN	D ACCOR ESIGN EN I ACCORE	DING TO IGINEER. DANCE W	CHAPTER	R 5 OF TH			
	DIPIPE LENGTH APPLI ONS ARE BASED ON A S - "PIPE BEDDED IN S	POORLY (	SRADED S VEL OR C	ANDS, GF	RAVEL AN	ND GRAVE	L-SAND N	IIXTURE,	LITTLE O	R NO FIN			



UTILITY CROSSING 30" & SMALLER



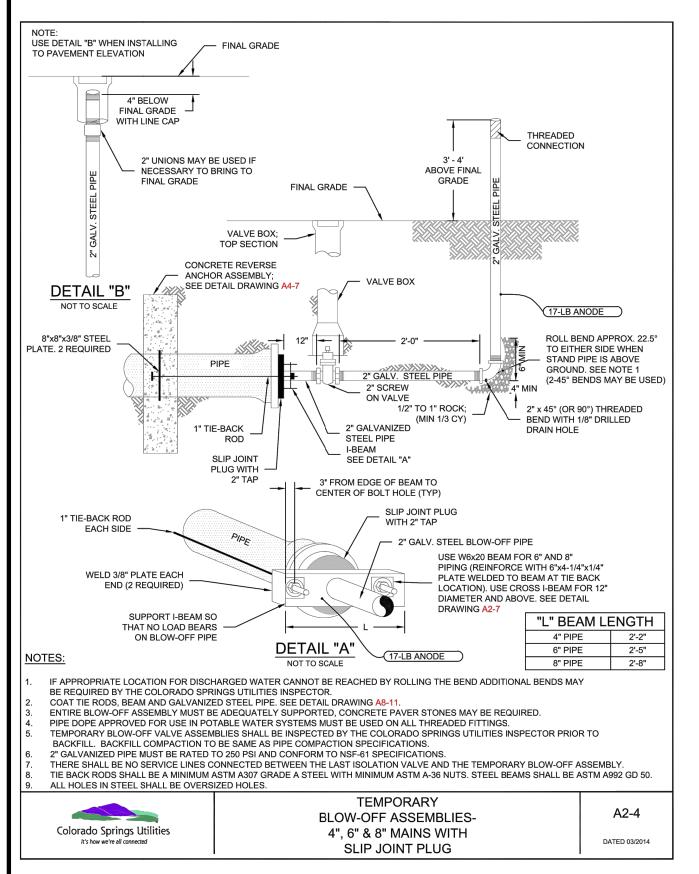


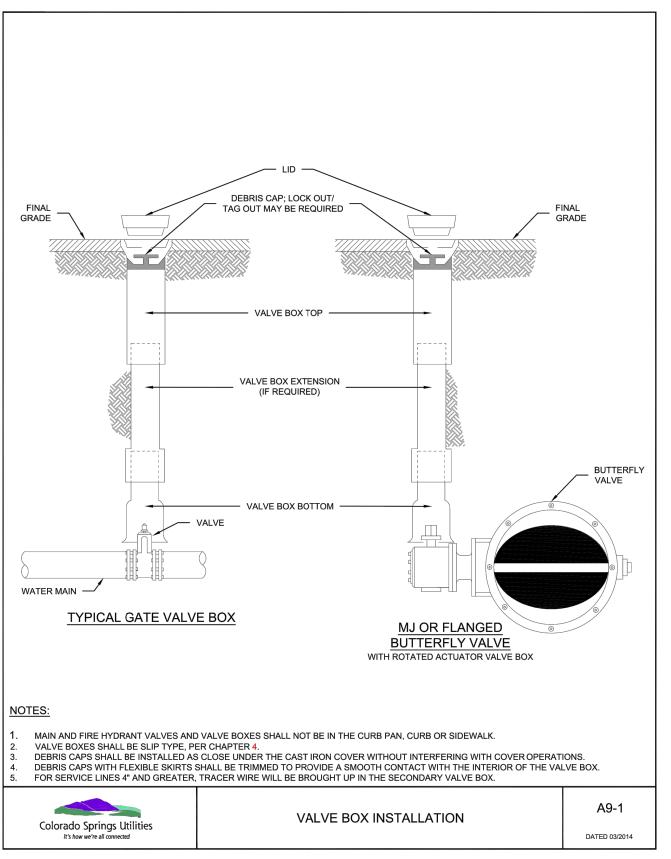


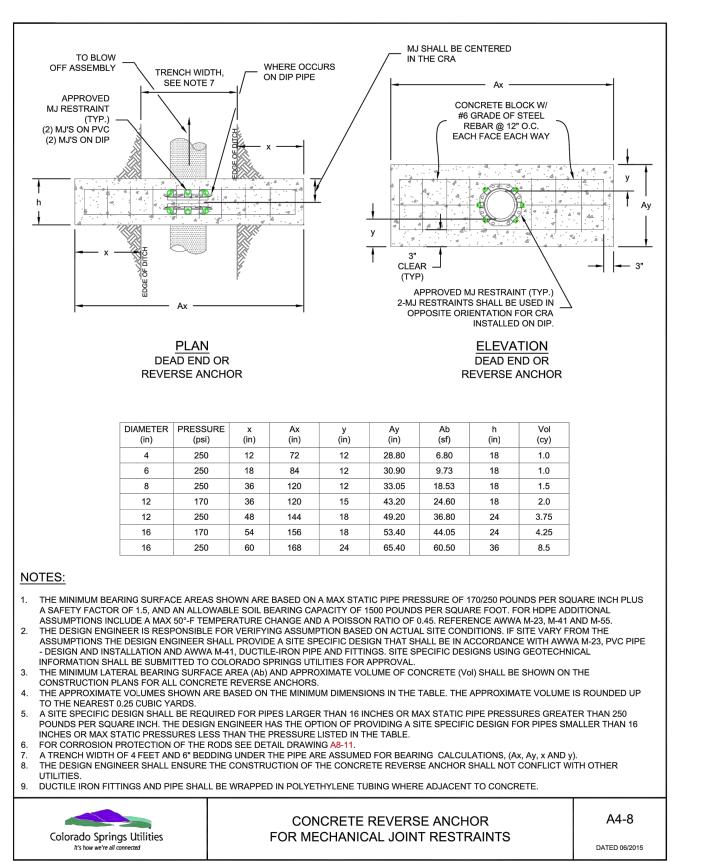


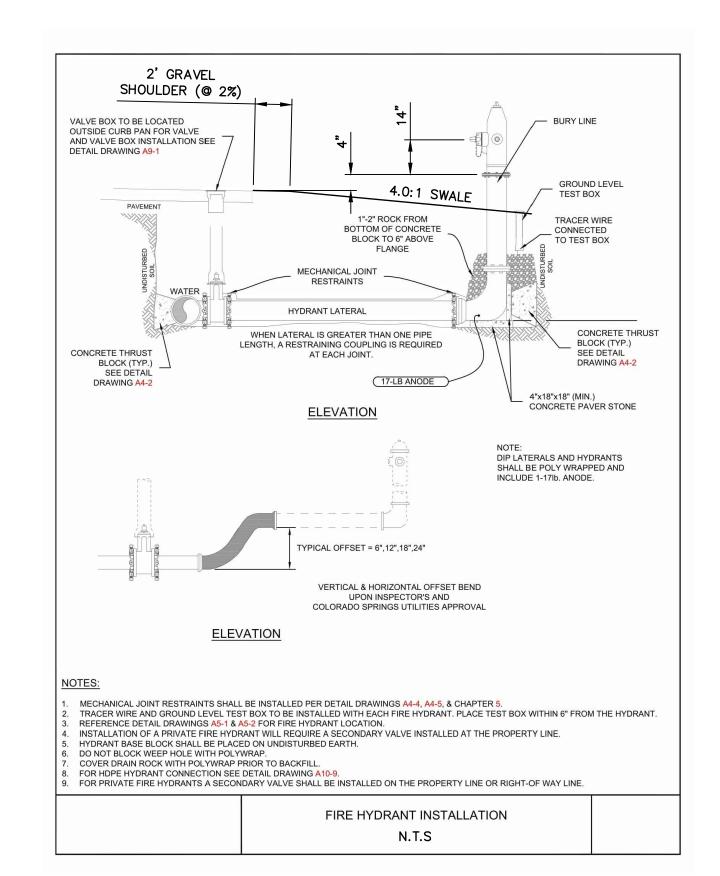
ENGINEER'S STATEMENT	
STANDARD DETAILS SHOWN WERE REVIEWED ON AS TO THEIR APPLICATION ON THIS PROJECT	
25043 09/09/22	
BRYAN T. LAW, P.E.  COLORADO P.E. 25043  FOR AND ON BEHALF OF JR ENGINEERING, PLUCING AND ON BEHALF OF JR ENGINEERING.	

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	N/A No. REVISION								
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ENGINEER'S STATEMENT		
STANDARD DETAILS SHOWN WERE REVIEWED ON AS TO THEIR APPLICATION ON THIS PROJECT  25043		
Know what's below. Call before you dig.  FOR AND ON BEHALF OF JR ENGINEERING, JOHAL ENGIN	9 5.02	

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