

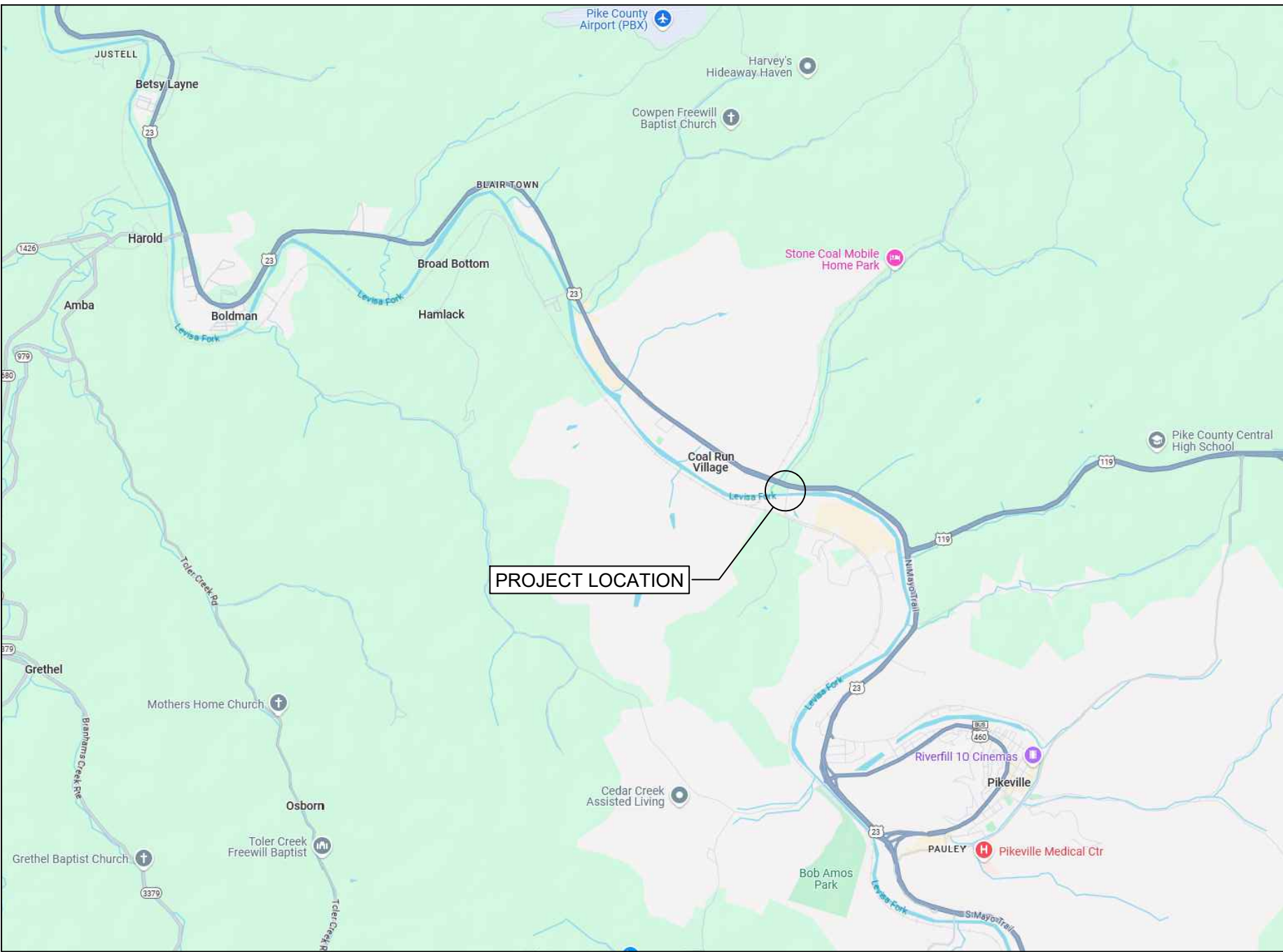
PROJECT:

Stonecoal Bridge Utility Relocation
KYTC Item No. 12-8705.00

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FOR INFORMATION
ONLY



VICINITY MAP

PROJECT TEAM

ARCHITECT / CIVIL ENGINEER	OWNER					
SUMMIT ARCHITECTS+ENGINEERS 3205 Summit Square Place Lexington, KY 40509 859-264-9860 160 Lanks Branch Pikeville, KY 41501 606-432-1447 300 Technology Drive Charleston, WV 25303 304-744-6410 summit-ae.com						

GENERAL NOTES

1) IDENTIFICATION OF PARTIES

OWNER:
CITY OF PIKEVILLE

OWNER'S SITE REPRESENTATIVE :
THE PERSON, FIRM, OR CORPORATION NAMED, EMPLOYED OR DESIGNATED AS SUCH BY THE OWNER TO ACT AS SUCH AND DESIGNATED TO OBSERVE THE WORK ACTING DIRECTLY OR THROUGH DULY AUTHORIZED REPRESENTATIVES

ENGINEER:
THE REGISTERED PROFESSIONAL ENGINEER DESIGNATED BY THE **OWNER** TO PROVIDE DESIGN SERVICES.

CONTRACTOR:
THE ENTITY RESPONSIBLE UNDER CONTRACT TO **OWNER** TO FURNISH LABOR, EQUIPMENT, ETC. TO COMPLETE THE WORK SPECIFIED HEREIN.

2) GENERAL PROJECT REQUIREMENTS

IN THE EVENT OF A CONFLICT BETWEEN ANY PORTION OF THE CONTRACT DOCUMENTS, **THE MORE STRINGENT REQUIREMENT SHALL GOVERN.**

3) BASE MAPPING

SITE TOPOGRAPHIC MAP PREPARED FROM PUBLICLY AVAILABLE LIDAR FROM KYAPED.

PROPERTY CORNERS HAVE NOT BEEN SET IN FIELD AT THIS TIME.

4) PROJECT COMMUNICATIONS / INSPECTION

ALL COMMUNICATION FROM THE **CONTRACTOR**, AND TO THE **CONTRACTOR**, SHALL BE THROUGH THE **OWNER'S** SITE REPRESENTATIVE.

5) SAFETY

THE **CONTRACTOR** SHALL BE SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE **CONTRACTOR** SHALL SELECT THE MEANS, METHODS, SEQUENCES, AND TECHNIQUES OF CONSTRUCTION HE DEEMS APPROPRIATE FOR ACCOMPLISHING THE WORK IN A SAFE MANNER. THE **CONTRACTOR** SHALL BE RESPONSIBLE FOR ALL DAMAGE TO PERSONS AND PROPERTY RESULTING FROM HIS ACTIVITIES.

6) EMERGENCY SHUTOFF

THE **CONTRACTOR** SHALL LOCATE EXISTING WATER AND GAS VALVES PRIOR TO STARTING WORK SO THAT IN THE EVENT OF AN EMERGENCY THE UTILITY SERVICE MAY BE QUICKLY SHUT-OFF.

7) CONSTRUCTION SURVEYS

THE **CONTRACTOR** SHALL RETAIN THE SERVICES OF A SURVEYOR TO ESTABLISH THE PROJECT LIMITS,STAKE THE WORK, AND VERIFY THAT THE PROJECT IS CONSTRUCTED ON GRADE. ALL SURVEYS BY THE **CONTRACTOR'S** SURVEYOR SHALL BE SUBJECT TO PERIODIC CHECKS BY THE **ENGINEER**. THIS CHECKING SHALL IN NO WAY RELIEVE THE **CONTRACTOR** OF HIS OBLIGATION TO ACCURATELY LAYOUT THE WORK.

THE PLANS PROVIDE THE LOCATION OF HORIZONTAL CONTROL POINTS AND BENCH MARKS TO BE UTILIZED FOR CONSTRUCTION SURVEYS. THE **ENGINEER** HAS ADDITIONAL SURVEY INFORMATION WHICH WILL BE SUPPLIED TO THE SUCCESSFUL BIDDER.

8) EASEMENTS AND RIGHT-OF-WAY

THE **OWNER** IS RESPONSIBLE FOR THE PROCUREMENT OF ALL PERMANENT EASEMENTS NECESSARY OR REQUIRED FOR THE PROJECT. THE **CONTRACTOR** IS RESPONSIBLE FOR TEMPORARY EASEMENTS FOR HIS STAGING AREAS. IT IS THE **CONTRACTOR'S** RESPONSIBILITY TO OBSERVE THE CONDITIONS OF THESE AGREEMENTS AND CONFINE HIS ACTIVITIES TO THE LIMITS OF THE EASEMENTS.

9) CLASSIFICATION

IT SHALL BE DISTINCTLY UNDERSTOOD THAT ANY REFERENCE TO ROCK, EARTH, OR ANY OTHER MATERIALS ON THE PLANS OR CROSS-SECTIONS WHETHER IN NUMBERS, WORDS, LETTERS OR LINES, IS SOLELY FOR THE **OWNER'S** INFORMATION AND IS NOT TO BE TAKEN AS AN INDICATION OF CLASSIFIED EXCAVATION OR THE QUANTITY OF EITHER ROCK, EARTH, OR ANY OTHER MATERIAL INVOLVED. THE **BIDDER** MUST DRAW HIS OWN CONCLUSIONS AS TO THE CONDITIONS TO BE ENCOUNTERED. THE **OWNER** DOES NOT GIVE ANY GUARANTEE AS TO THE ACCURACY OF THE DATA. PAYMENT SHALL BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.

10) TOTAL SITE RESPONSIBILITY

IN OCCUPYING THE SITE AND COMMENCING WORK IN ACCORDANCE WITH THE NOTICE TO PROCEED, THE **CONTRACTOR** ASSUMES TOTAL AND COMPLETE RESPONSIBILITY FOR THE WORK UNTIL FINAL PAYMENT AND RELEASE OF CLAIMS. ANY PORTION OF THE WORK DAMAGED IN THIS TIME PERIOD SHALL BE CORRECTED, REPAIRED, OR REPLACED BY THE **CONTRACTOR** AT **NO** ADDITIONAL COST TO THE **OWNER**.

11) ACCESS TO WORK

THE **ENGINEER**, HIS REPRESENTATIVES, AND REPRESENTATIVES OF THE **OWNER** SHALL HAVE FULL ACCESS TO THE WORK AT ALL TIMES.

12) BLASTING

BLASTING ON THIS PROJECT SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE, & FEDERAL ORDINANCES. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.

13) BURNING

BURNING ON THIS PROJECT SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE, & FEDERAL ORDINANCES. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.

14) WASTE AREAS

THE **CONTRACTOR** WILL NECESSARILY GENERATE WASTE MATERIALS IN THE FORM OF BRUSH CHIPPINGS, OVERSIZE BOULDERS, MUCK, ETC. **THE CONTRACTOR SHALL SUBMIT A WRITTEN PLAN DETAILING THE MANNER IN WHICH WASTE MATERIALS WILL BE HANDLED. THE CONTRACTOR** SHALL STRICTLY COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS PERTAINING TO THE DISPOSITION OF CONSTRUCTION RELATED WASTE PRODUCTS. IN NO EVENT SHALL WASTE MATERIALS BE PLACED ON SITE.

15) SILT CONTROL

THE **CONTRACTOR** SHALL CONDUCT HIS WORK IN AN ENVIRONMENTALLY SOUND MANNER AND SHALL UTILIZE"BEST MANAGEMENT PRACTICES" TO MINIMIZE EROSION. THE **CONTRACTOR** SHALL HOLD HARMLESS THE **OWNER** FROM ANY VIOLATIONS ASSOCIATED WITH THE CLEAN WATER ACT (ALSO SEE PERMITS NOTE HEREON).

16) EROSION CONTROL

EROSION CONTROL MEASURES DEPICTED ON THE DRAWINGS SHALL BE CONSIDERED THE MINIMUM REQUIRED. CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES AS NECESSARY TO PERMIT SEDIMENT FROM LEAVING THE SITE OR NEGATIVELY AFFECTING THE OWNER'S OPERATION OF THE EXISTING FACILITY.

17) DRAINAGE

THE **CONTRACTOR** SHALL MAINTAIN DRAINAGE OF THE SITE DURING ALL PHASES OF CONSTRUCTION. THE **OWNER** MAY DIRECT THE **CONTRACTOR** TO CONSTRUCT DITCHES OR BERMS TO ALLEVIATE SITE DRAINAGE PROBLEMS. CONSTRUCTION AND MAINTENANCE OF MINOR DRAINAGE WORKS SHALL BE CONSIDERED AN INTEGRAL PART OF THE OVERALL ACCOMPLISHMENT OF THE PROJECT AND SHALL NOT BE MEASURED FOR SEPARATE PAYMENT.

18) ADHERENCE TO PERMITS

THE CONTRACTOR SHALL CONDUCT HIS ACTIVITIES IN STRICT ACCORDANCE WITH ALL PERMIT TERMS AND CONDITIONS.

SITE CIVIL PERMITS TO BE ACQUIRED BY THE **OWNER** INCLUDE:

1) DOW CONSTRUCTION PERMIT FOR DRINKING WATER DISTRIBUTION LINES

SITE CIVIL PERMITS TO BE ACQUIRED BY THE **CONTRACTOR** INCLUDE:

THE CONTRACTOR SHALL OBTAIN THESE PERMITS PRIOR TO INITIATION OF SITE CONSTRUCTION. THE **CONTRACTOR** SHALL CONDUCT HIS ACTIVITIES IN STRICT ACCORDANCE WITH ALL PERMIT TERMS AND CONDITIONS.

1) KPDES STORMWATER GENERAL PERMIT

KPDES PERMITS ARE ISSUED BY:
SECTION SUPERVISOR
INVENTORY & DATA MANAGEMENT SECTION
KPDES BRANCH - DIVISION OF WATER
14 REILLY ROAD
FRANKFORT, KY 40601

19) UTILITIES

The **CONTRACTOR'S** attention is called to the presence of existing utilities. THE CONTRACTOR SHALL MAKE A DILIGENT EFFORT TO MAINTAIN THE SERVICE OF EXISTING UTILITIES. The following agencies have utilities on, or adjacent to, the Work.

WATER & GAS

DONNIE SLONE
UMG
287 ISLAND CREEK ROAD
PIKEVILLE, KY 41501
(606) 437-5114

ELECTRIC

DEREK COLEMAN
AEP/KENTUCKY POWER
3249 N. MAYO TRAIL
PIKEVILLE, KY 41501
(606) 437-3812

CABLE/PHONE

JACK SALTER
AT&T
102 WATERS ROAD
PIKEVILLE, KY 41501
(606) 437-9032

CABLE/PHONE

MARK STUMBO
SOUTHEAST TELEPHONE
106 SCOTT AVENUE
PIKEVILLE, KY 41501
(606) 794-6432

TV & FIBER OPTIC

JOE AUSTIN
SUDDEN LINK
MT. GAY, WV 25361
CELL: (304) 687-4707

FIBER OPTIC

ROY HARLOW
INTER MOUNTAIN CABLE
P.O. BOX 159
HAROLD, KY 41635
(606) 478-9406

20) DEMOLITION

CONTRACTOR SHALL REMOVE OR RELOCATE WHEN APPLICABLE ALL EXISTING BUILDINGS, FOUNDATIONS, BASEMENTS, AND CONNECTING IMPROVEMENTS, DRAIN PIPES, SANITARY SEWER PIPES, SEPTIC TANKS, POWER POLES AND GUY WIRES, WATER METERS, WATER LINES, WELLS, SIDEWALKS, SIGN POLES, AND ASPHALT, SHOWN OR NOT SHOWN,WITHIN CONSTRUCTION LIMITS WHERE NEEDED TO FACILITATE EARTHWORK ACTIVITIES. ALL MATERIALS SHALL BE DISPOSED OF IN A MANNER CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SOLID WASTE REGULATIONS. WORK SHALL BE CONSIDERED INCIDENTAL TO SITE PREPARATION.

21) REPLACEMENT OF EXISTING FACILITIES

THE **CONTRACTOR** SHALL REPLACE EXISTING RETAINING WALLS, CATCH BASINS, DITCHES, ETC. THAT ARE DAMAGED BY CONSTRUCTION UNLESS SAID FACILITIES ARE SPECIFICALLY SHOWN TO BE REMOVED. IN PARTICULAR, ALL DRAINAGE DITCHES SHALL BE RESTORED TO A CONDITION EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION. UNLESS SAID FACILITY REPLACEMENT IS IDENTIFIED AS A PAY ITEM IN THE DESIGN DRAWINGS OR TECHNICAL SPECIFICATIONS, THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE WORK AND SHALL NOT BE MEASURED FOR PAYMENT.

22) DAMAGE TO GUARDRAIL, SIGNS, FENCES, ETC.

ALL GUARDRAIL, SIGNS, FENCES, ETC. DAMAGED AS A RESULT OF THE CONSTRUCTION SHALL BE RESTORED IN LIKE KIND AND CHARACTER TO THE SATISFACTION OF THE **OWNER**. UNLESS SAID REPLACEMENT IS IDENTIFIED AS A PAY ITEM IN THE DESIGN DRAWINGS OR TECHNICAL SPECIFICATIONS, THIS WORK SHALL BE CONSIDERED INCIDENTAL TO SITE PREPARATION AND SHALL NOT BE MEASURED FOR PAYMENT.

23) STORED MATERIALS

REQUEST FOR PAYMENT FOR STORED MATERIALS **MUST** BE PREPARED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.

24) THRUST BLOCKS

CONCRETE THRUST OR "KICKER" BLOCKS SHALL BE INSTALLED IN ALL PRESSURIZED LINES AT INTERSECTIONS AND CHANGES OF DIRECTION TO RESIST FORCES ACTING UPON THE PIPELINE. THRUST BLOCKS ARE CONSIDERED INCIDENTAL TO PIPELINE INSTALLATION.

25) SEPARATION OF WATER AND SEWER

HORIZONTAL - SEWERS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THIS DISTANCE SHALL BE MEASURED EDGE TO EDGE. IF FIELD CONDITIONS DO NOT ALLOW THIS SEPARATION, THE SEWER SHALL BE LOCATED SUCH THAT THE CROWN OF THE SEWER PIPE IS 18 INCHES BELOW THE INVERT OF THE WATER LINE. IF FIELD CONDITIONS DO NOT ALLOW THIS CONDITION TO BE MET - THEN THE SEWER SHALL BE CONSTRUCTED OF MECHANICAL JOINT DUCTILE IRON PIPE (PRESSURE TESTED TO 150 PSI) AND ENCASED IN CONCRETE.

CROSSING - SEWERS SHALL CROSS UNDER WATER MAINS WITH A MINIMUM OF 18 INCHES OF SEPARATION BETWEEN THE CROWN OF THE SEWER AND THE INVERT OF THE WATER MAIN. IF FIELD CONDITIONS ARE SUCH THAT THIS SEPARATION CAN NOT BE MAINTAINED, THE SEWER SHALL BE CONSTRUCTED OF MECHANICAL JOINT DUCTILE IRON PIPE WHICH SHALL BE PRESSURE TESTED TO 150 PSI. THE DUCTILE IRON PIPE MUST BE CENTERED ON THE CROSSING SO THAT THE JOINTS ARE AT LEAST 5 FEET ON EITHER SIDE OF THE CROSSING.

NO SEPARATE PAYMENT SHALL BE MADE FOR WORK TO INSURE COMPLIANCE WITH THIS SEPARATION CRITERION. MAINTENANCE OF ADEQUATE SEPARATION SHALL BE CONSIDERED AN INTEGRAL PART OF THE UNIT PRICE BID FOR SEWER PIPE.

26) TESTING

ALL COMPLETED UTILITY LINES SHALL BE SUBJECTED TO THE ACCEPTANCE TESTS DESCRIBED IN THE SPECIFICATIONS AND THE CURRENT UMG STANDARDS RELATING TO DESIGN, MATERIALS / EQUIPMENT & CONSTRUCTION. UTILITY LINES SHALL INCLUDE BUT ARE NOT LIMITED TO, NATURAL GAS, SANITARY SEWER, STORM SEWER, WATER, ELECTRIC, AND ALL COMMUNICATION UTILITIES.

27) TRAFFIC CONTROL

THE **CONTRACTOR'S** MAINTENANCE OF TRAFFIC IS CONSIDERED INCIDENTAL TO CONSTRUCTION ACTIVITIES.

28) SEEDING

ALL DISTURBED AREAS NOT DESIGNATED TO RECEIVE A PAVEMENT OR BUILDING SHALL BE SEEDED IN ACCORDANCE WITH THE PLANS AND TECHNICAL SPECIFICATIONS.

29) TRACK VEHICLES

TRACK VEHICLES MUST BE ISOLATED FROM PAVEMENT WITH AN EARTH CUSHION OR PROTECTIVE MAT. IN NO EVENT SHALL TRACK VEHICLES BE OPERATED DIRECTLY ON PAVED SURFACES.

30) RELOCATION OF UTILITIES

IN GENERAL ALL UTILITY RELOCATIONS MUST BE PERFORMED BY THE RESPECTIVE UTILITY COMPANY, ITS AUTHORIZED, AND APPROVED CONTRACTOR. THE OWNER'S CONTRACTOR SHALL NOT PERFORM WORK INVOLVING UTILITIES WITHOUT WRITTEN AUTHORIZATION FROM THE UTILITY OWNER. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE THE RELOCATION/CONSTRUCTION OF ALL UTILITIES AS INDICATED HEREIN. APPLIES TO GAS, ELECTRIC, TELEPHONE, CABLE, AND FIBER OPTIC ONLY.

31) PROPOSED UTILITIES AND EXISTING CULVERTS

WHEN CROSSING EXISTING CULVERT PIPES, PROPOSED UTILITIES MUST GO UNDER OR AROUND EXISTING CULVERT PIPES. UTILITIES **SHALL NOT** BE PLACED OVER EXISTING CULVERTS.

MINIMUM SEPARATION BETWEEN CULVERT PIPE AND NEAREST POINT OF FORCE MAINS IS 5 (FIVE) FEET.

FOR INFORMATION
ONLY

ABBREVIATIONS

MISCELLANEOUS

B. WALL	BOTTOM OF WALL (TOP OF FOUNDATION)
FL	FLOW LINE
IE	INLET ELEVATION
OE	OUTLET ELEVATION
TC	TOP OF CONCRETE
TG	TOP OF GRATE
TOT	TOP OF TANK
TP	TOP OF PAVEMENT
TS	TOP OF SIDEWALK
TW	TOP OF WALL

APPURTENANCES

CBI	CURB BOX INLET
CO	CLEAN OUT
DBI	DROP BOX INLET
DS	DOWN SPOUT
FH	FIRE HYDRANT
MH	MAN HOLE

PIPE

BCCMP	Bituminous Coated Corrugated Metal Pipe
CMP	Corrugated Metal Pipe
CPEP	Corrugated Polyethylene Pipe
DI	Ductile Iron
PVC	Polyvinyl Chloride Pipe
RCP	Reinforced Concrete Pipe
SICPEP	Smooth Interior Corrugated Polyethylene Pipe
HDPE	High Density Polyethylene Pipe

Utilities

PP	Power Pole
SS	Sanitary Sewer
ST	Storm Sewer

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Stonecoal Bridge Utility Relocation
KYTC Item No. 12-8705.00

General Notes & Legend

REVISIONS	NO.	DESCRIPTION	DATE:		

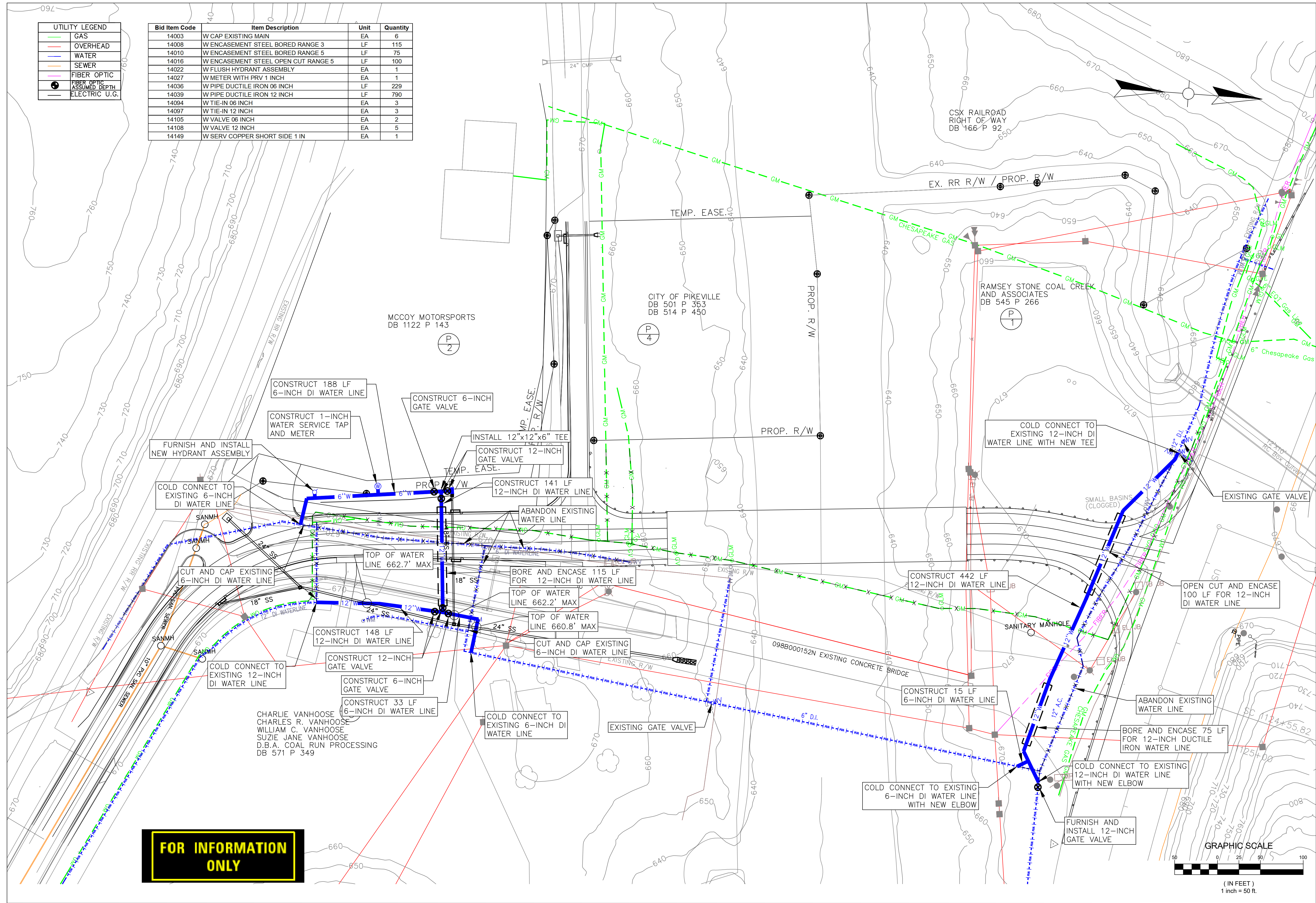
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DATE: 03/31/2025
JOB STATUS: BID
DRAWN BY: MDJ
CHECKED: MDJ
PROJECT NO: 12-8705.00
SHEET:

U2

UTILITY LEGEND	
---	GAS
---	OVERHEAD
---	WATER
---	SEWER
---	FIBER OPTIC
---	FIBER OPTIC ASSUMED DEPTH
---	ELECTRIC U.G.

Bid Item Code	Item Description	Unit	Quantity
14003	W CAP EXISTING MAIN	EA	6
14008	W ENCASEMENT STEEL BORED RANGE 3	LF	115
14010	W ENCASEMENT STEEL BORED RANGE 5	LF	75
14016	W ENCASEMENT STEEL OPEN CUT RANGE 5	LF	100
14022	W FLUSH HYDRANT ASSEMBLY	EA	1
14027	W METER WITH PRV 1 INCH	EA	1
14036	W PIPE DUCTILE IRON 06 INCH	LF	229
14039	W PIPE DUCTILE IRON 12 INCH	LF	790
14094	W TIE-IN 06 INCH	EA	3
14097	W TIE-IN 12 INCH	EA	3
14105	W VALVE 06 INCH	EA	2
14108	W VALVE 12 INCH	EA	5
14149	W SERV COPPER SHORT SIDE 1 IN	EA	1



SUMMIT

ARCHITECTS + ENGINEERS

3205 Summit Square Place
Lexington, KY 40509
606-254-9880

300 Technology Drive
Pikeville, KY 41501
606-432-3333
304-744-6510

summit-ae.com

Stonecoal Bridge Utility Relocation

KYTC Item No. 12-8705.00

Water Relocation Plans

REVISIONS

NO.	DESCRIPTION	DATE

DATE: 03/31/2025

JOB STATUS: BID

DRAWN BY: MDJ

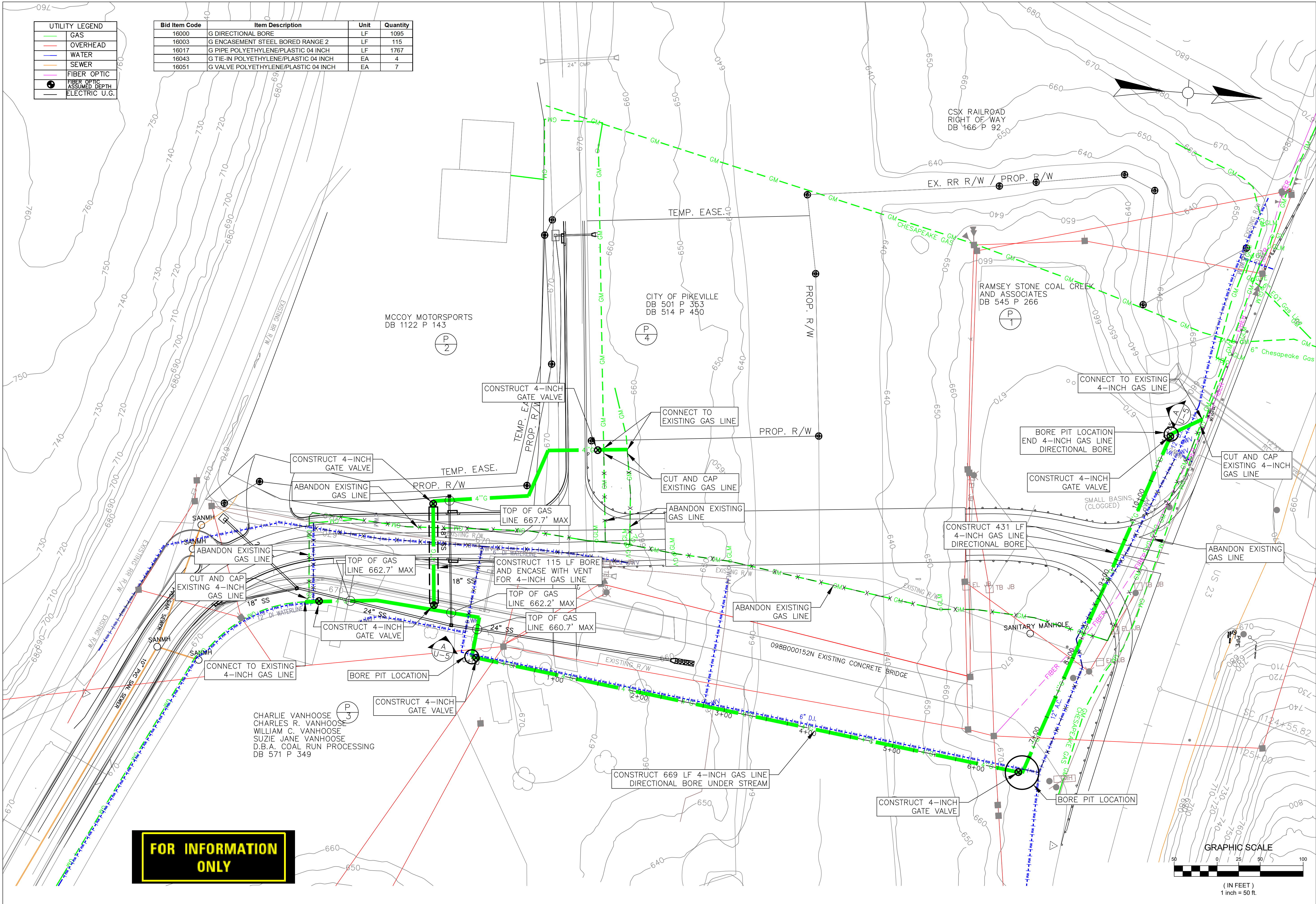
CHECKED: MDJ

PROJECT NO: 12-8705.00

SHEET: U3

UTILITY LEGEND	
---	GAS
---	OVERHEAD
---	WATER
---	SEWER
---	FIBER OPTIC
---	FIBER OPTIC ASSUMED DEPTH
---	ELECTRIC U.G.

Bid Item Code	Item Description	Unit	Quantity
16000	G DIRECTIONAL BORE	LF	1095
16003	G ENCASEMENT STEEL BORED RANGE 2	LF	115
16017	G PIPE POLYETHYLENE/PLASTIC 04 INCH	LF	1767
16043	G TIE-IN POLYETHYLENE/PLASTIC 04 INCH	EA	4
16051	G VALVE POLYETHYLENE/PLASTIC 04 INCH	EA	7



Stonecoal Bridge Utility Relocation
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Gas Relocation Plans

REVISIONS	NO.	DESCRIPTION	DATE:

DATE: 03/31/2025
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SHEET:

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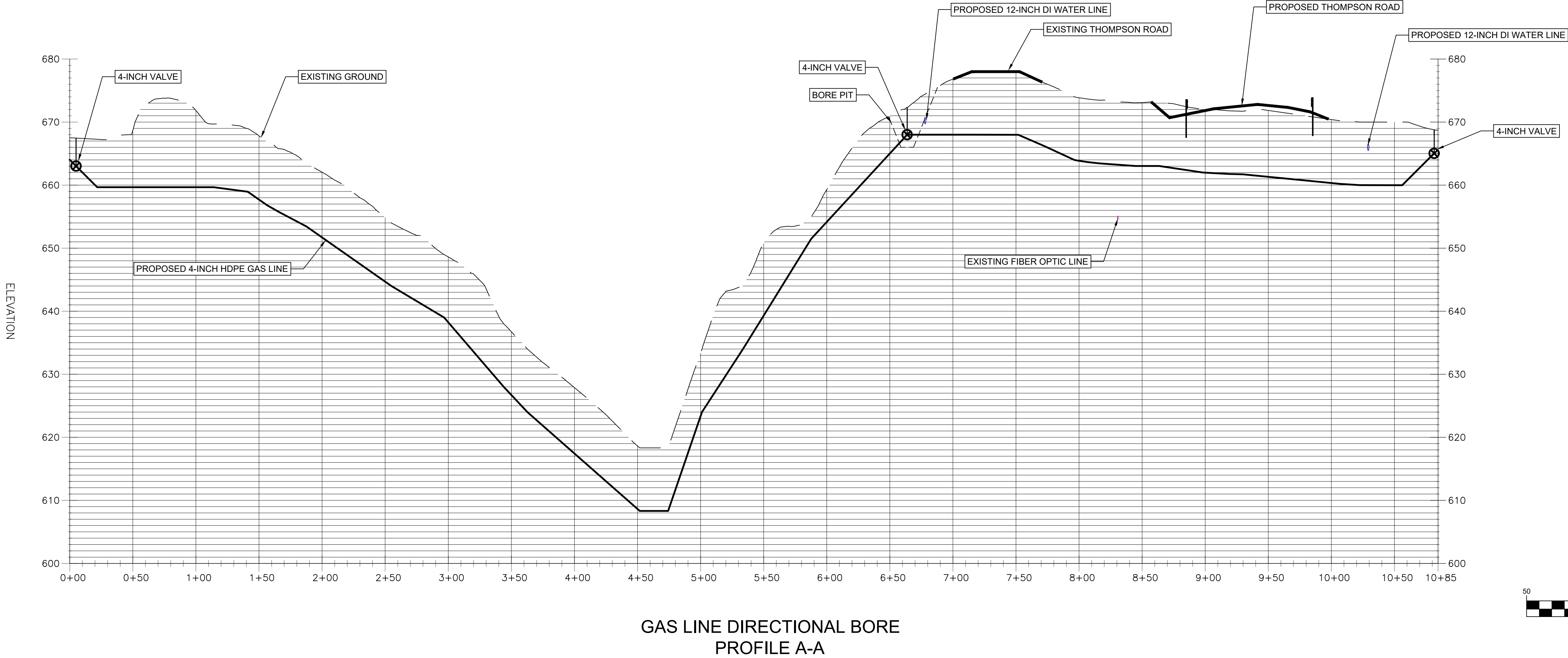
Profiles

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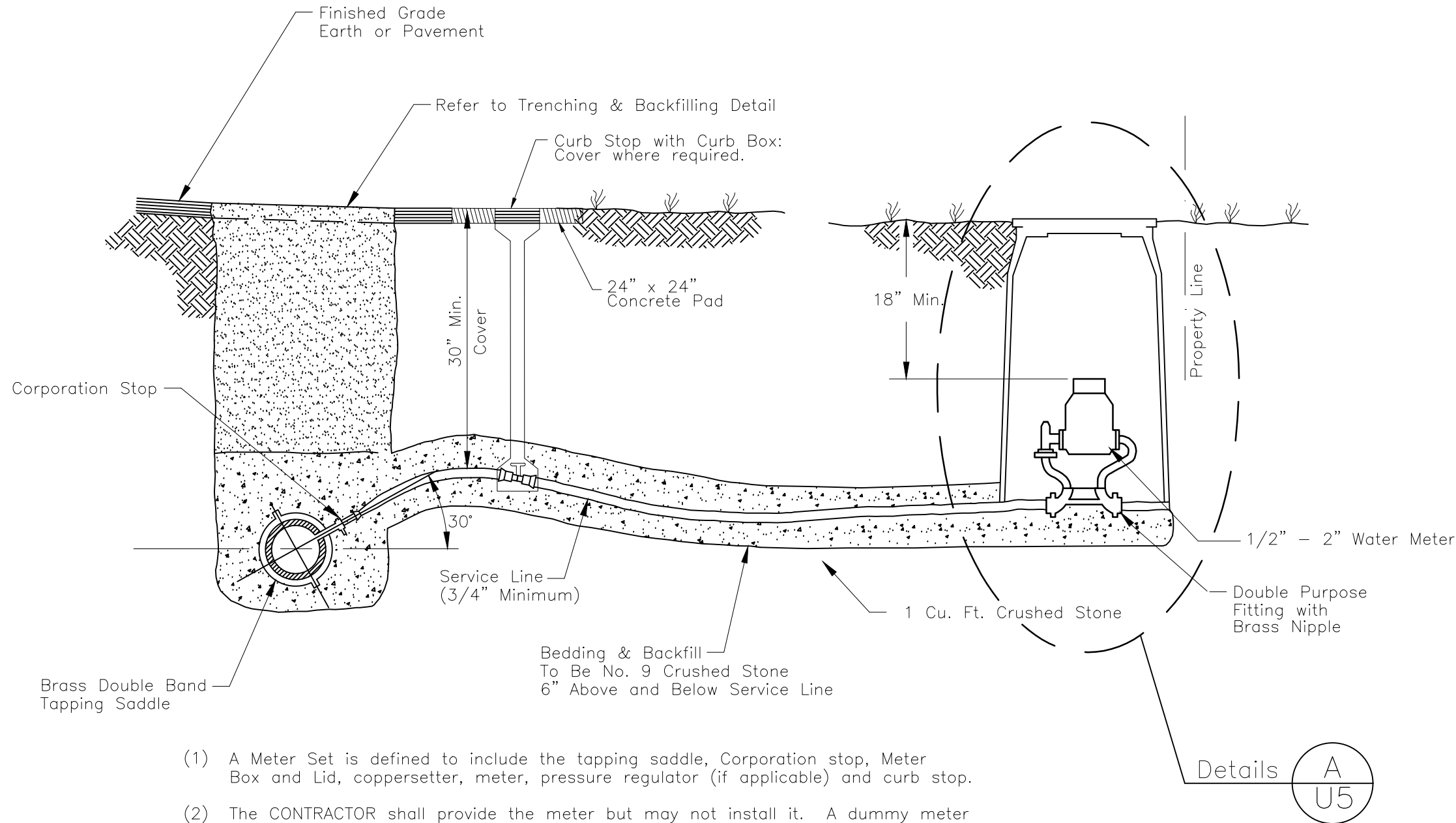
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U5

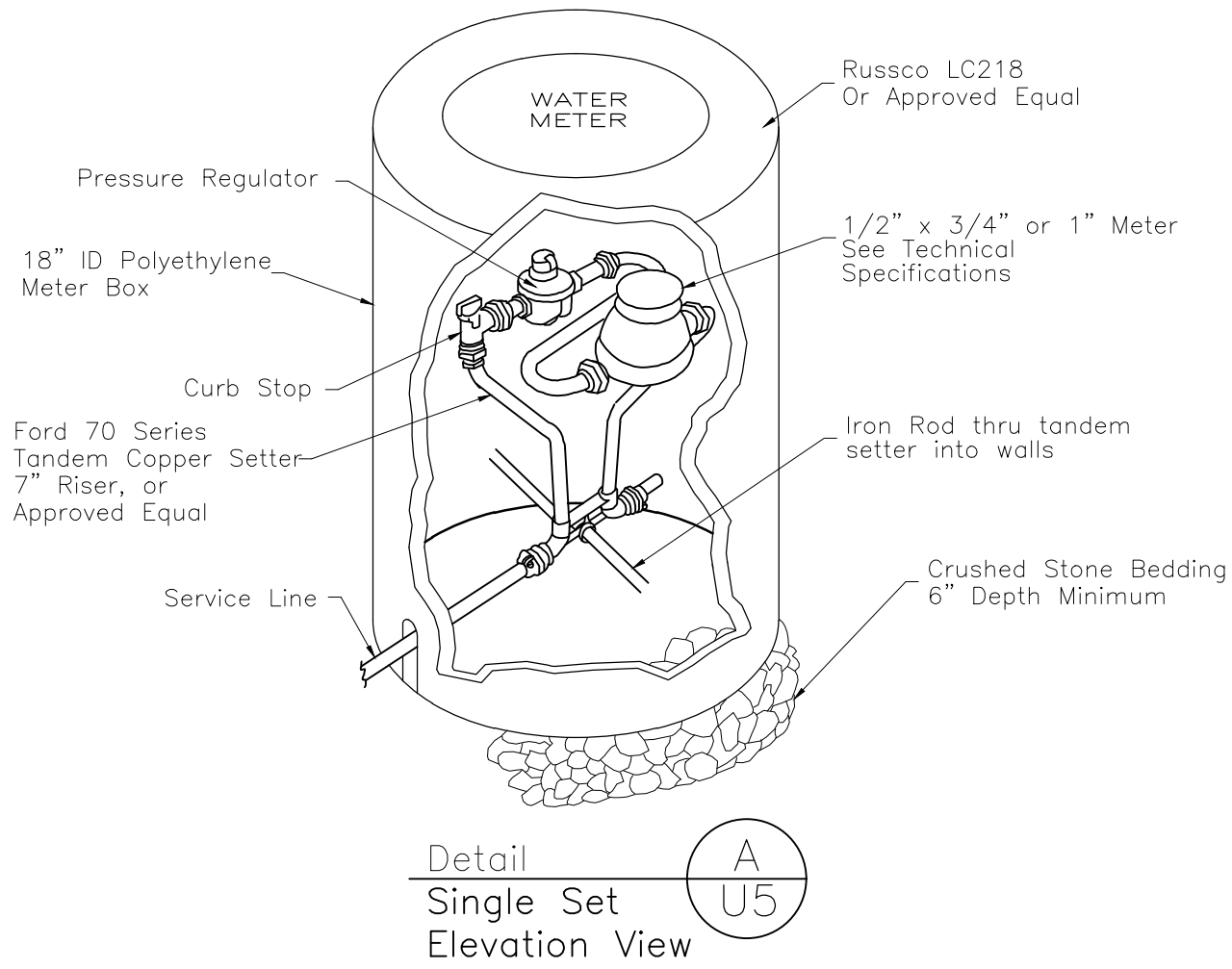


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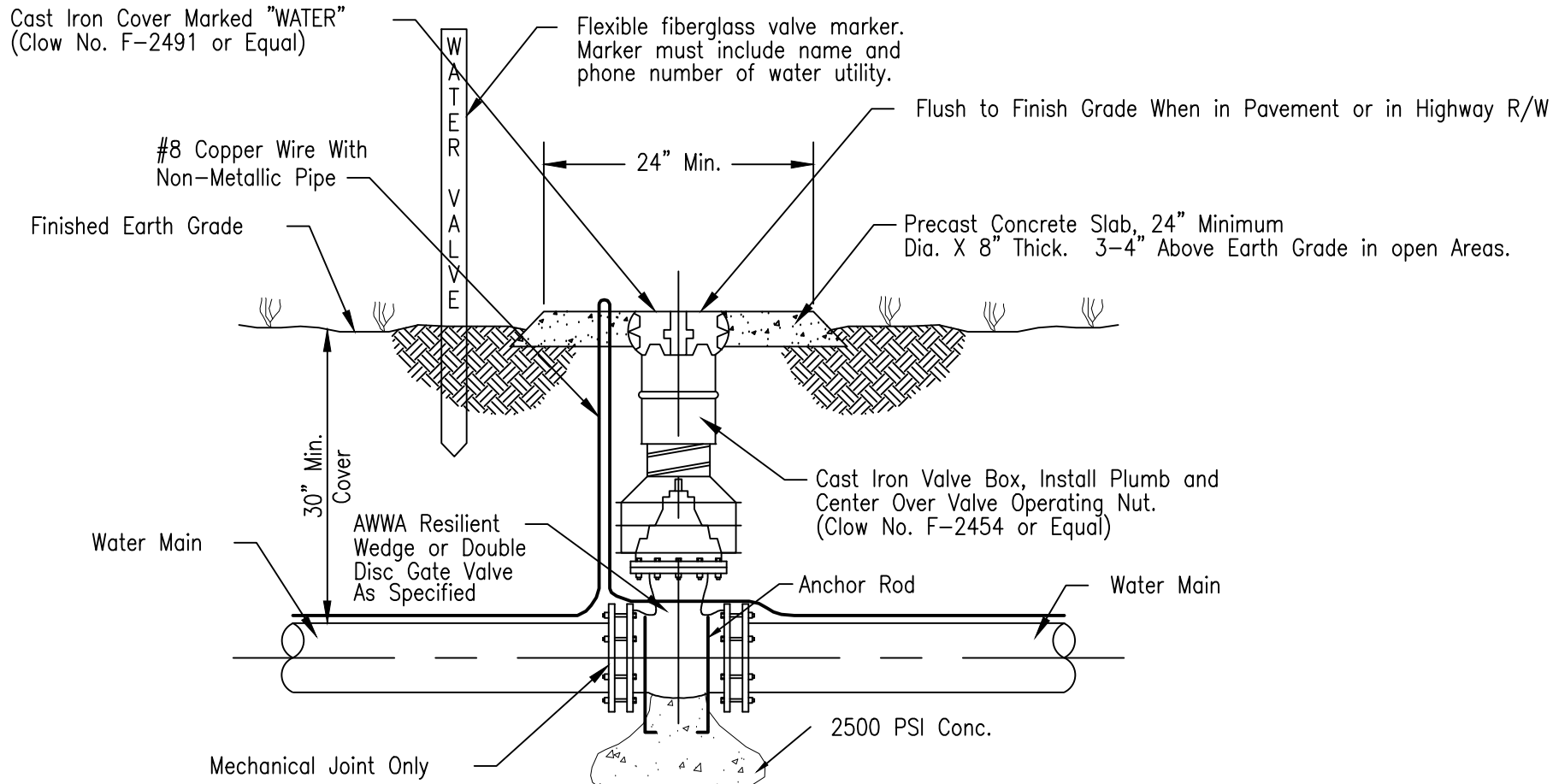
- (1) A Meter Set is defined to include the tapping saddle, Corporation stop, Meter Box and Lid, coppersetter, meter, pressure regulator (if applicable) and curb stop.
- (2) The CONTRACTOR shall provide the meter but may not install it. A dummy meter shall be used to check connections. The meter shall be delivered to the OWNER's Operations Manager.
- (3) Lid shall be flush with paved surfaced, 1/2" above grade in lawn areas, and 2" above grade in unimproved areas.

SERVICE CONNECTION

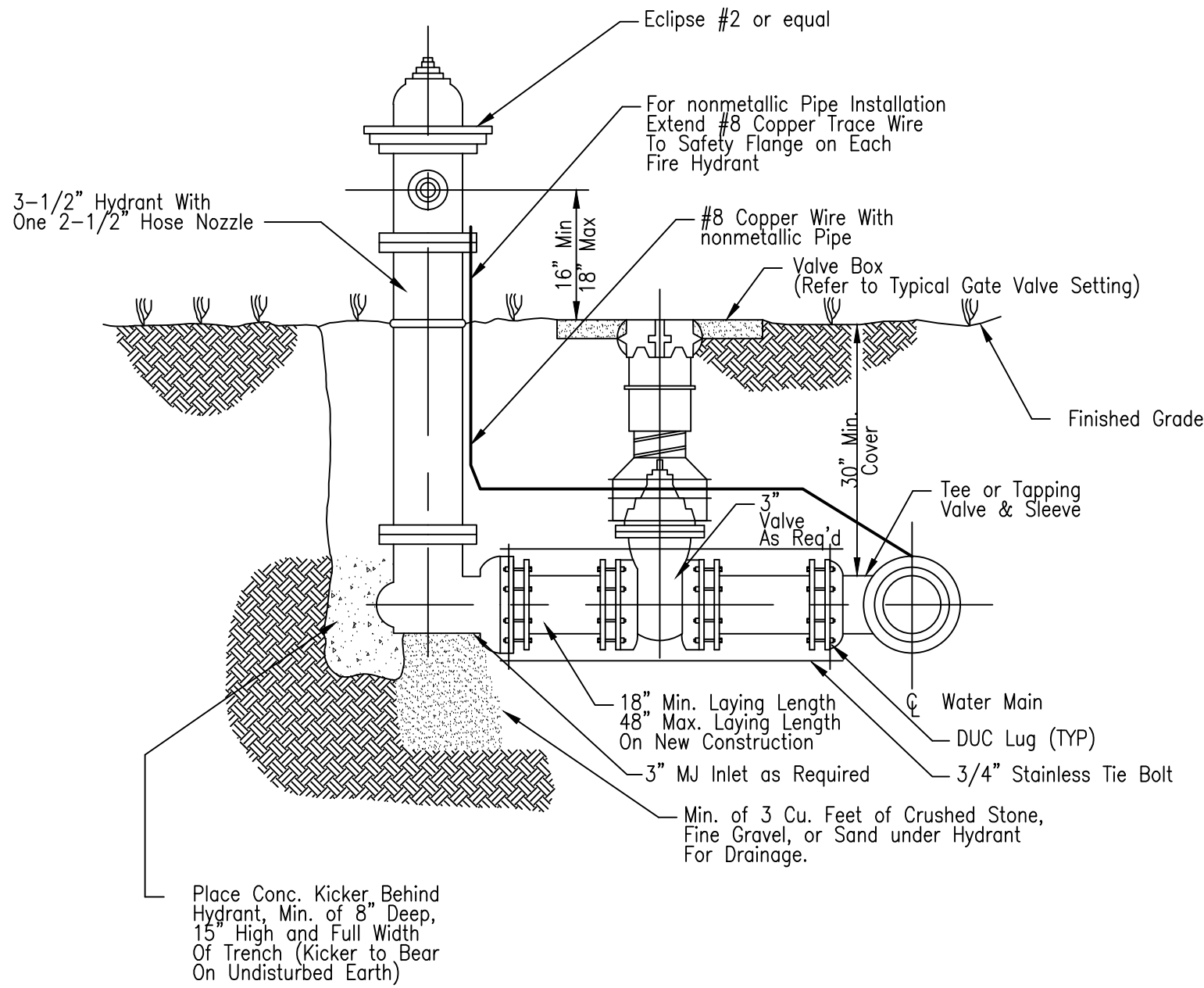


NOTE: A double seated check valve swivel type shall be installed on the customer side of the meter

METER WITH PRV

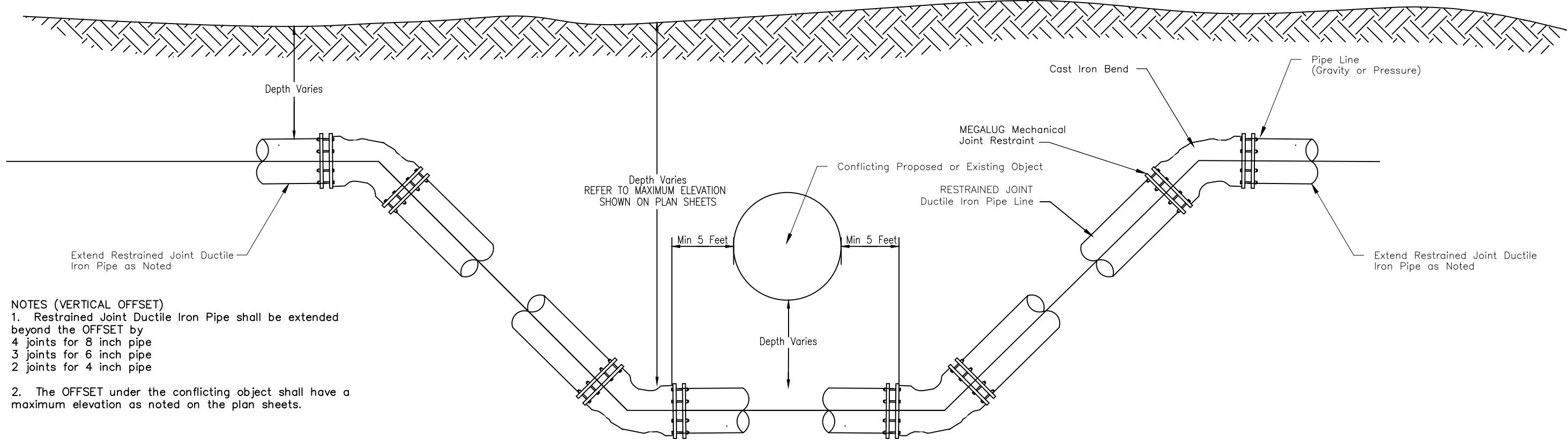


GATE VALVE SETTING



FLUSH HYDRANT ASSEMBLY

N.T.S.



- NOTES (VERTICAL OFFSET)
1. Restrained Joint Ductile Iron Pipe shall be extended beyond the OFFSET by
- 4 joints for 8 inch pipe
- 3 joints for 6 inch pipe
- 2 joints for 4 inch pipe
2. The OFFSET under the conflicting object shall have a maximum elevation as noted on the plan sheets.

COMBINED VERTICAL EQUAL ANGLE "OFFSET" UNDER OBSTRUCTION N.T.S.

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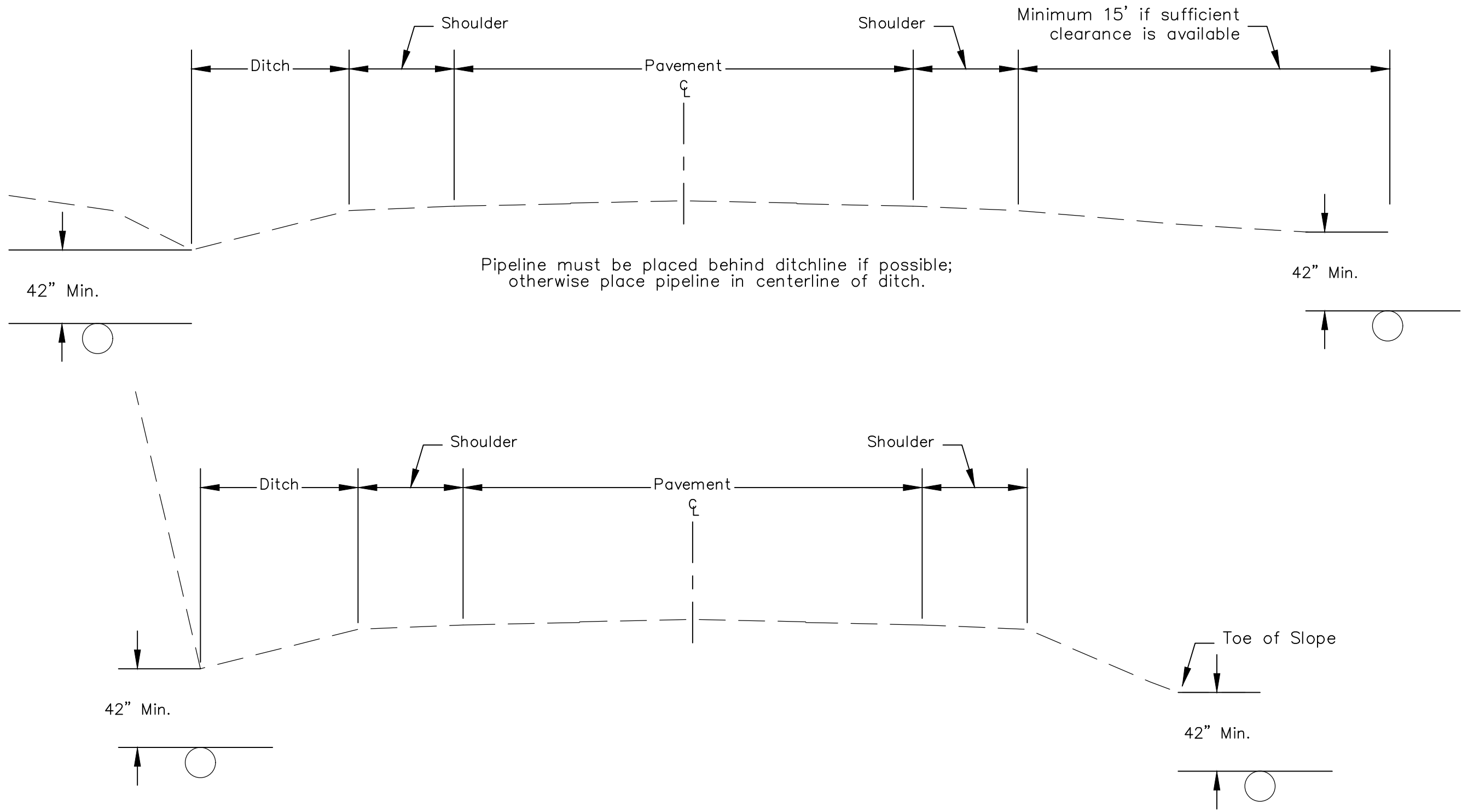
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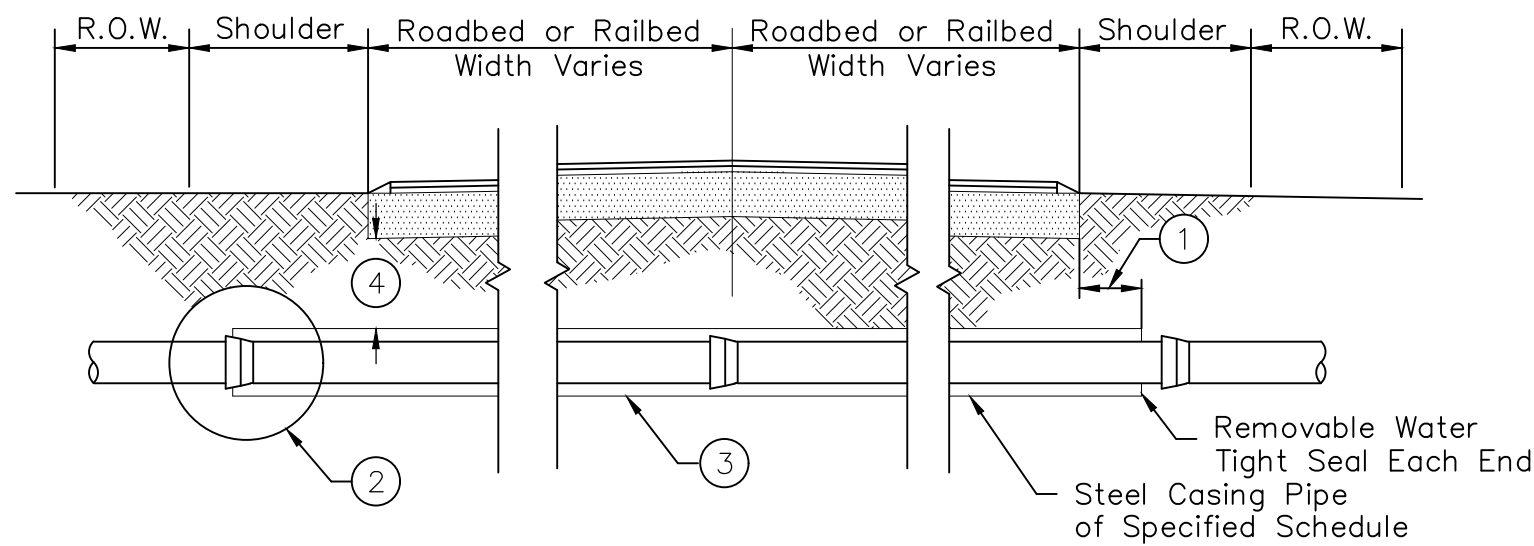
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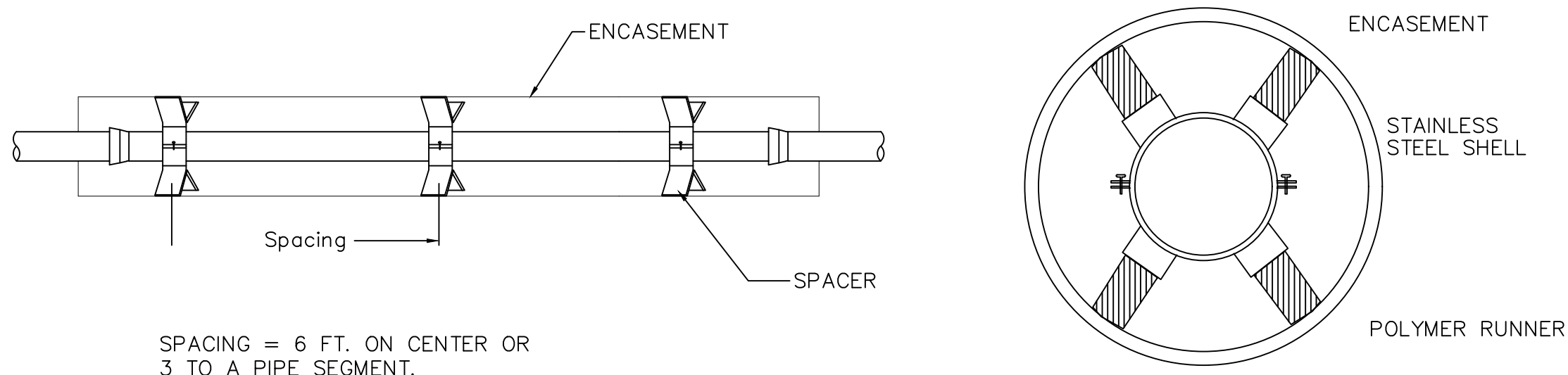


TYPICAL CONSTRUCTION ON KYTC RIGHTS OF WAY

N.T.S.



- EXTENSION OF ENCASEMENT BEYOND EDGE OF PAVEMENT AS DESCRIBED IN TECHNICAL SPECIFICATIONS OR PLANS. FIVE FEET BEYOND EDGE OF PAVEMENT AND OR BEYOND THE TOE OF SLOPE OR BOTTOM OF DITCH ON KYDOH RIGHT-OF-WAY.
- SEE "TYPICAL PIPE CASING SKIDS" DETAIL HEREON.
- ENCASEMENT PIPE I.D. SHALL BE AT LEAST 4" GREATER THAN THE BELL O.D. OF CARRIER PIPE.
- STATE HIGHWAYS 2'-0" BELOW SUBGRADE OR 36" BELOW GRADE, WHICHEVER IS GREATER. RAILROAD 5'-6" BELOW RAIL.
- WHEN PERFORMING BORE ADJACENT TO SLOPE AREAS, BORE PITS SHALL BE PLACED BEYOND THE TOE OF THE SLOPE. EXCAVATION OF THE SLOPE SHALL NOT BE ALLOWED.
- WHEN PERFORMING BORING ADJACENT TO A DITCHLINE, BORE PITS MUST BE PLACED OUTSIDE OF THE DITCH AND THE ENCASEMENT MUST EXTEND BEYOND THE DITCHLINE.
- WHEN PERFORMING BORES AT RELATIVELY FLAT LOCATIONS, THE BORE PIT MUST BE A MINIMUM OF FIVE (5) FEET BEYOND THE EDGE OF PAVEMENT



SPACING = 6 FT. ON CENTER OR 3 TO A PIPE SEGMENT.

TYPICAL PIPE ENCASEMENT DETAIL

N.T.S.

NOMINAL CARRIER	CARRIER PIPE PVC ASTM D-3034			CARRIER PIPE DUCTILE IRON - PUSH JOINT			CARRIER PIPE DUCTILE IRON - MECHANICAL JOINT			CARRIER PIPE SDR11 HDPE	
PIPE DIAMETER (INCHES)	BELL O.D. (INCHES) (Note 1)	BARREL O.D. (INCHES)	ENCMT I.D. (INCHES) (Note 2)	BELL O.D. (INCHES)	BARREL O.D. (INCHES)	ENCMT I.D. (INCHES) (Note 2)	BELL O.D. (INCHES)	BARREL O.D. (INCHES)	ENCMT I.D. (INCHES) (Note 2)	PIPE O.D. (INCHES)	ENCMT I.D. (INCHES) (Note 2)
4 or Less	5.2	4.22	9.2	6.86	4.8	10.86	9.12	4.8	13.12	4.04	8.04
6	7.5	6.28	11.5	8.75	6.9	12.75	11.12	6.9	15.12	5.95	9.95
8	10.1	8.4	14.1	11.05	9.05	15.05	13.37	9.05	17.37	7.75	11.75
10	12.4	10.5	16.4	13.15	11.1	17.15	15.62	11.1	19.62	9.66	13.66
12	14.5	12.5	18.5	15.3	13.2	19.3	17.88	13.2	21.88	11.45	15.45

TABLE of STEEL PIPE ENCASEMENT SIZES

- NOTES:
- PVC Bell O.D. based on JM Pipe Green Tite. Bell OD may vary with manufacturer.
 - See Table of Minimum Wall Thickness to determine Nominal Casing O.D.

STEEL ENC O.D. (INCHES)	MIN. WALL THICKNESS (INCHES)	PIPE I.D. (INCHES)
6.625	0.188	6.249
8.625	0.188	8.249
10.75	0.188	10.374
12.75	0.188	12.374
14	0.188	13.624
16	0.219	15.562
18	0.250	17.500
20	0.281	19.438
22	0.281	21.438
24	0.312	23.376
26	0.344	25.312
28	0.375	27.250
30	0.406	29.188
32	0.438	31.124
34	0.469	33.062
36	0.469	35.062
38	0.500	37.000
40	0.531	38.938
42	0.563	40.874
44	0.594	42.812
46	0.594	44.812
48	0.625	46.750
50	0.656	48.688

- NOTES
- Casing thickness based on Cooper E80 loading.
 - For casing beneath railways, when casing is installed without the benefit of a protective coating or cathodic protection casing wall thickness shown hereon shall be increased to the next largest standard size.

TABLE of MINIMUM WALL THICKNESS for STEEL PIPE ENCASEMENTS

NOMINAL CARRIER	CARRIER PIPE PVC ASTM D-2241			
	PIPE DIAMETER (INCHES)	BELL O.D. (INCHES) (Note 1)	BARREL O.D. (INCHES)	ENCMT I.D. (INCHES) (Note 2)
4 or Less	5.7	4.5	9.7	R2
6	8.1	6.6	12.1	R3
8	10.4	8.6	12.6	R3
10	12.4	10.8	14.8	R4
12	15.1	12.8	16.8	R4

TABLE of STEEL PIPE ENCASEMENT SIZES (PRESSURE RATED PVC)

- NOTES
- PVC Bell O.D. based on ASTM-D2241. Bell OD may vary with manufacturer.
 - See Table of Minimum Wall Thickness to determine Nominal Casing O.D.

NOMINAL PIPE DIAMETER (INCHES)	COPPER & PE SERVICE TUBING			
	CARRIER PIPE O.D. (INCHES)	RR CROSS (STEEL) (INCHES) (Note 1)	STATE HWY (STEEL) (INCHES) (Note 2)	LOCAL STREET (PVC) (INCHES) (Note 3)
0.75	0.875	5	* 3-	* 3-
1	1.125	5	* 3-	* 3-
1.25	1.375	6	* 3-	* 3-
2	2.125	6	4	4

- NOTES:
- Nominal Steel Pipe Size. Minimum wall 0.188 Inches.
 - Nominal Steel Pipe Size. STD Schedule 40 Steel.
 - Nominal PVC Pipe Size. STD Schedule 40 PVC.
- * Encasement Not Required

TABLE of SERVICE TUBING ENCASEMENT SIZES

FOR INFORMATION ONLY

REVISIONS	NO.	DESCRIPTION	DATE:

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PROJECT NO: 12-8705.00
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