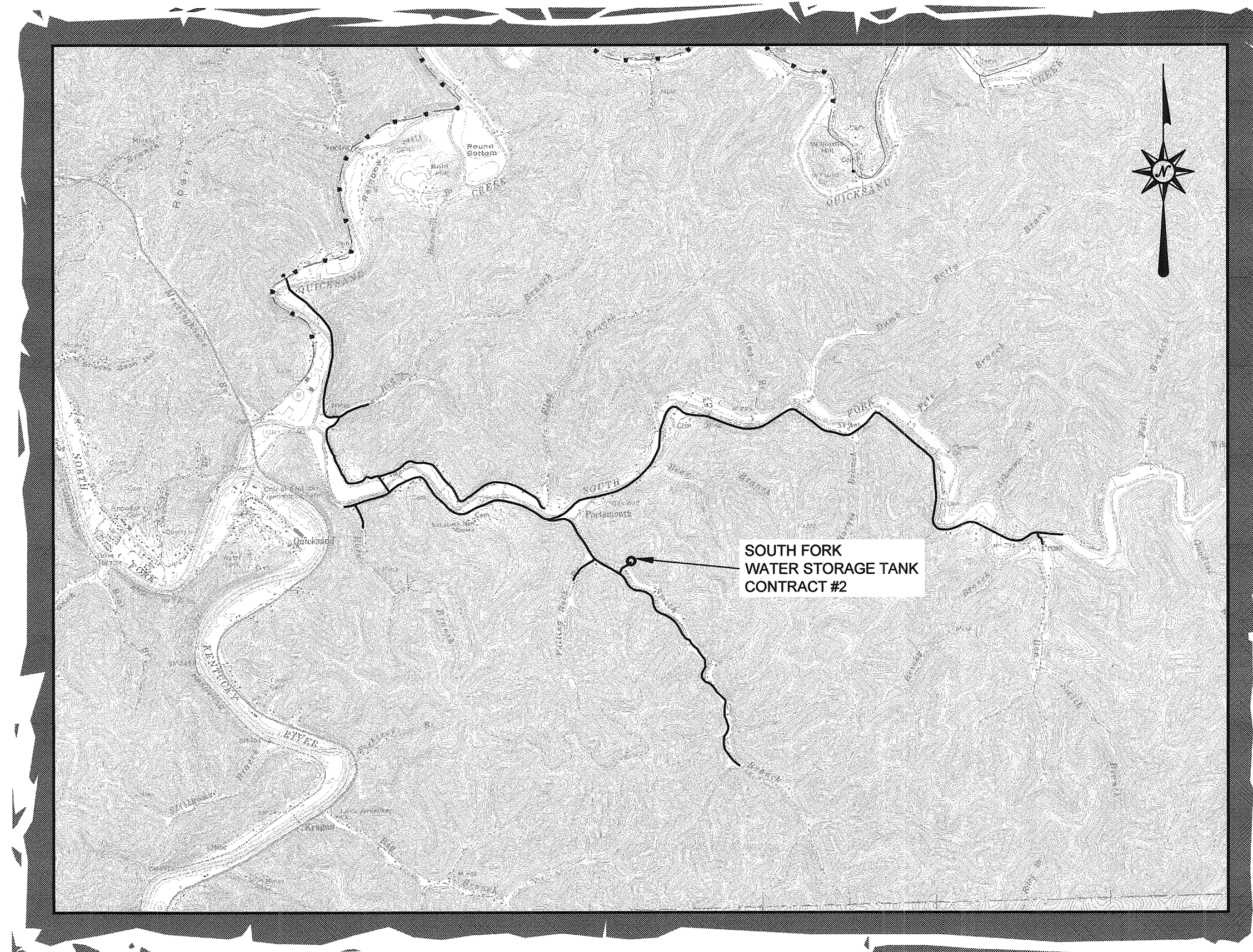


KENTUCKY



VICINITY MAP  
1" = 3000'

ABBREVIATIONS

A.F.F. ABOVE FINISHED FLOOR	EXT EXTERIOR	PRV PRESSURE RELIEF VALVE
ALUM ALUMINUM	F.D FLOOR DRAIN	PRESS PRESSURE
APPROX. APPROXIMATE	F.F. FINISHED FLOOR	REDUC REDUCING
BIT BITUMINOUS	FLG FLANGE	RED REDUCER
BLDG BUILDING	FL FENCELINE	REINF. REINFORCING
BLK BLOCK	FLOC FLOCCULATOR	REFRIG. REFRIGERATOR
B.M. BENCH MARK	GD GRADE	RM ROOM
B'FLY BUTTERFLY	DIP DUCTILE IRON PIPE	SM SANITARY
BOTT BOTTOM	H.B. HOSE BIBB	SCH. SCHEDULE
CHEM CHEMICAL	H HEIGHT	SECT SECTION
C.I. CAST IRON	H.W. HOT WATER	SED SEDIMENTATION
C.I.S.P. CAST IRON SOIL PIPE	INFL INFLUENT	SEW SEWER
C CENTERLINE	INV. INVERT	SHT SHEET
CONC. CONCRETE	LAV LAVATORY	SOL SOLUTION
CHLOR CHLORINE	L LENGTH	SPEC'S. SPECIFICATION'S
CL CLEARANCE	LOAD'G. LOADING	SQ. SQUARE
C.W. COLD WATER	LNG LONG	S.S. STAINLESS STEEL
CU COPPER	MH MANHOLE	ST STEEL TUBE
C.O. CLEANOUT	M.J. MECHANICAL JOINT	STL. STEEL
CONT CONTINUATION	MIN. MINIMUM	STN. STAINLESS
DGA DENSE GRADED AGGRAGATE	MTD. MOUNTED	SURF SURFACE
D.I. DUCTILE IRON	MAX. MAXIMUM	SVCS SERVICES
DISCH DISCHARGE	NO. NUMBER	T THICK
D.I.M.J. DUCTILE IRON MECHANICAL JOINT	NRS NONRISING STEM	T.O.C. TOP OF CONCRETE
D.I.P.E. DUCTILE IRON PLAIN END	N.T.S. NOT TO SCALE	TYP. TYPICAL
D.I.P. DUCTILE IRON PIPE	O.C. ON CENTER	TRANS TRANSITION
DEMO DEMOLITION	O.D. OVERALL DIMENSION	VAC VACUUM
DIAG DIAGONAL	OPER OPERATOR	VAL VALVE
EFTL EFFLUENT	OP'NG OPENING	VTR VENT THRU ROOF
E.F. EACH FACE	PE POLYETHYLENE	VERT VERTICAL
ELC ELECTRICAL	P.E. PLAIN END	WD WOOD
EL ELEVATION	PLATE PLATE	W.C. WATER CLOSET
EQUIP EQUIPMENT	PROP PROPOSED	W/ WITH
E.W. EACH WAY	PVC POLYVINYL CHLORIDE	W.L. WATER LEVEL
EXIST EXISTING	PRV PRESSURE RELIEF VALVE	W.S.E. WATER SURFACE ELEVATION
	PRESS PRESSURE	WWF WOVEN WIRE FENCE

**CALL THE KENTUCKY ONE CALL BEFORE DIGGING:**  
**KENTUCKY UNDERGROUND PROTECTION, INC. 1-800-752-6007**  
 A FEDERAL LAW NOW IN EFFECT STATES THAT ANY PERSON WHO ENGAGES IN EXCAVATION ACTIVITIES WITHOUT FIRST USING AN AVAILABLE ONE-CALL NOTIFICATION SYSTEM TO DETERMINE LOCATIONS OF UNDERGROUND FACILITIES; OR WITHOUT HEEDING LOCATION INFORMATION OR MARKINGS AND SUBSEQUENTLY DAMAGES A PIPELINE FACILITY SHALL BE SUBJECT TO A FINE, IMPRISONMENT, OR BOTH. THE LAW ALSO STATES THAT OSHA MAY BE NOTIFIED OF ANY ACCIDENT CAUSED BY AN EXCAVATOR.  
**NATIONAL ONE-CALL REFERRAL NUMBER 1-800-258-0808**

GENERAL NOTES:

- DIMENSIONS OF EXISTING STRUCTURES, EQUIPMENT, ETC. SHALL BE FIELD CONFIRMED BY THE CONTRACTOR. WHERE CRITICAL DIMENSIONS FOR INSTALLATION OF PROPOSED EQUIPMENT ARE INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL CONFIRM THESE DIMENSIONS FOR ACTUAL EQUIPMENT FURNISHED. ALL KNOWN DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- THE CONTRACTOR SHALL USE ALL POSSIBLE CARE DURING EXCAVATION ON THIS PROJECT SO AS NOT TO DISTURB ANY EXISTING UTILITY WHETHER SHOWN ON PLANS OR NOT. ANY UTILITY DISTURBED OR DAMAGED BY THE CONTRACTOR DURING HIS CONSTRUCTION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- THE CONTRACTOR SHALL CONFINE ALL CONSTRUCTION ACTIVITY TO THE AREA WITHIN EXISTING EASEMENTS AND CONSTRUCTION LIMITS, UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER.
- THE CONTRACTOR WILL BE SOLELY LIABLE FOR ANY WORK HE PERFORMS OUTSIDE OF LEGAL EASEMENTS OR CONSTRUCTION LIMITS.
- THE CONTRACTOR MUST CONTACT ALL UTILITY OWNERS AND HAVE THEM FIELD LOCATE THEIR EXISTING LINES PRIOR TO ANY CONSTRUCTION ACTIVITY.
- EFFORTS HAVE BEEN MADE TO INDICATE ACCURATE LOCATIONS OF SOME EXISTING STRUCTURES, PIPING AND UTILITIES. HOWEVER THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE AND OTHER EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN INFORMATION DEPICTED BY THE CONSTRUCTION DRAWINGS AND ACTUAL FIELD CONDITIONS WHICH WOULD SIGNIFICANTLY ALTER THE DESIGN INTENT OF THE CONSTRUCTION DRAWINGS PRIOR TO COMMENCING HIS CONSTRUCTION OPERATIONS. DIMENSIONS OF EXISTING STRUCTURES AND/OR SITE RESTRICTIONS ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND CONFIRM ALL DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES AND TOPOGRAPHY IN THE FIELD NECESSARY FOR HIS CONSTRUCTION OPERATION.
- THE CONTRACTOR SHALL USE ALL POSSIBLE CARE DURING EXCAVATION ON THIS PROJECT SO AS NOT TO DISTURB OR DAMAGE ANY EXISTING UTILITY OR STRUCTURE NOT SCHEDULED FOR DEMOLITION WHETHER DEPICTED OR NOT IN THE CONSTRUCTION DRAWINGS. ANY DAMAGE TO THE AFORE MENTIONED ITEMS CAUSED DIRECTLY OR INDIRECTLY BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO BEING DAMAGED.
- THE CONTRACTOR SHALL CONTACT AND OBTAIN THE PERMISSION OF EXISTING UTILITY OWNERS 48 HOURS (MIN.) PRIOR TO ANY CONSTRUCTION ACTIVITY INTERRUPTING OPERATION OF SAID UTILITY.
- UNLESS OTHERWISE NOTED, ALL BURIED PIPES SHALL HAVE 30" (MIN.) COVER AS MEASURED FROM FINISHED GRADE TO THE OUTSIDE SURFACE OF THE PIPE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO WORK ALL APPLICABLE DRAWINGS AND THE APPROPRIATE SPECIFICATIONS AS A UNIT. ANY OMISSIONS, DELETIONS, OR CONFLICTS ARISING AS A RESULT OF FAILURE TO INCORPORATE ALL DRAWINGS AND SPECIFICATIONS WHICH APPLY SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDED COST TO THE OWNER.

CONSTRUCTION ON STATE RIGHT-OF-WAY NOTES:

- WATER MAIN/SEWER LINES TO BE CONSTRUCTED WITHIN THE KENTUCKY TRANSPORTATION CABINET RIGHT-OF-WAY. TRENCHES SHALL BE OF A DEPTH SUFFICIENT TO PROVIDE A MINIMUM COVER OF 42" FROM THE EXISTING GROUND SURFACE TO THE TOP OF THE PIPE AND BE LOCATED APPROXIMATELY AS SHOWN UNLESS OTHERWISE NOTED. SEE INDIVIDUAL SHEETS FOR DETAILS.
- ALL BORES UNDER STATE HIGHWAYS RIGHT-OF-WAY SHALL BE A MINIMUM OF 42" DEPTH UNDER BOTTOM OF DITCH LINE TO TOP OF THE PROPOSED BORE AND/OR CASING PIPE ON BOTH SIDES OF THE HIGHWAY.
- ROCK BLASTING: THERE SHALL BE NO BLASTING WITHIN STATE RIGHT-OF-WAY WITHOUT WRITTEN CONSENT FROM THE KENTUCKY TRANSPORTATION CABINET.
- PROTECTION OF EXISTING PAVING: CARE SHALL BE TAKEN BY THE CONTRACTOR TO AVOID CRACKING OR BREAKING THE BITUMINOUS PAVING. ALL DAMAGE TO THE EXISTING PAVING CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER. PAVING PROTECTION SHALL BE ACCOMPLISHED BY THE USE OF RUBBER AND STREET PADDED MACHINERY OR OTHER APPROVED EQUIPMENT WELL SUITED FOR THIS TYPE OF CONSTRUCTION.
- BANK AND DITCH PROTECTION EXCAVATION: DURING CONSTRUCTION, ALL EMBANKMENTS, REFILLS AND EXCAVATIONS SHALL BE KEPT SHAPED AND DRAINED BY THE CONTRACTOR. DITCHES AND DRAINS ALONG THE HIGHWAYS SHALL BE MAINTAINED IN SUCH A MANNER AS TO DRAIN EFFECTIVELY AT ALL TIMES.
- PRIVATE ENTRANCE ROAD: ALL ROADWAYS AND DRIVEWAYS WITHIN THE WORK LIMITS OF STATE RIGHT-OF-WAYS SHALL BE REFILLED TO THE NATURAL SURFACE OF THE GROUND WITH APPROVED MATERIAL. THE MATERIAL SHALL BE PLACED AND COMPACTED TO A SMOOTHNESS SUITABLE FOR TRAFFIC. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR MAINTAINING THESE ROADWAYS UNTIL THE RESTORATION IS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL NOTE THAT ALL PRIVATE BUSINESSES AND RESIDENCES ALONG THE ROUTE OF THE PROPOSED WATER MAIN/SEWER LINE CONSTRUCTION MUST HAVE ACCESS TO THEIR PROPERTIES AT ALL TIMES DURING CONSTRUCTION.
- PROTECTION OF EXISTING DRAINAGE CULVERTS: ALL LOCATIONS WHERE THE PROPOSED WATER MAIN/SEWER LINE IS PARALLEL WITH OR CROSSING AN EXISTING STORM SEWER, THE COST OF RELAYING EXISTING CULVERT PIPES OR THE EXTRA DEPTH REQUIRED TO AVOID THE EXISTING CULVERT IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND IS NOT A PAY ITEM.
- SOME EXISTING UTILITIES HAVE NOT BEEN SHOWN: THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE REPRESENTATIVES OF THE VARIOUS UTILITIES WHEN WORKING NEAR ANY EXISTING UTILITY. NO ADDITIONAL PAYMENT TO THE CONTRACTOR WILL BE MADE FOR EXTRA DEPTH REQUIRED TO AVOID ANY EXISTING UTILITY.

SHEET INDEX

- C-1 SOUTH FORK STORAGE TANK ACCESS ROAD
- C-2 SOUTH FORK STORAGE TANK PLAN & SECTIONS
- C-3 VALVE VAULT DETAILS
- C-4 WATER STORAGE TANK DETAILS
- C-5 WATER STORAGE TANK DETAILS
- C-6 SCADA DIAGRAM
- C-7 STANDARD DETAILS
- C-8 STANDARD DETAILS

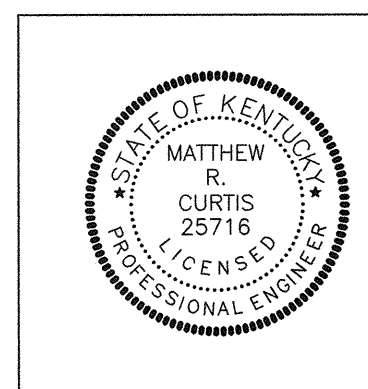


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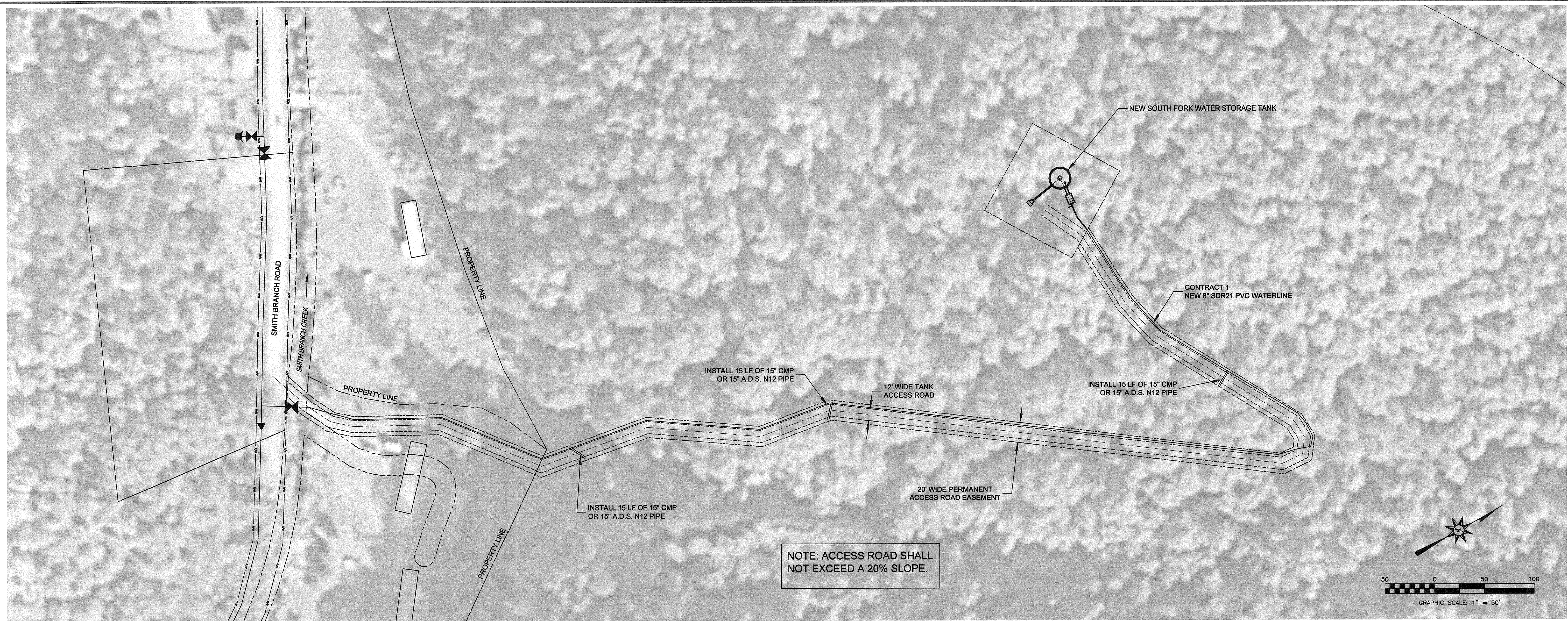
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 Lexington, Kentucky  
 40507-1016  
 Tel (859) 233-3111  
 Fax (859) 259-2717

111

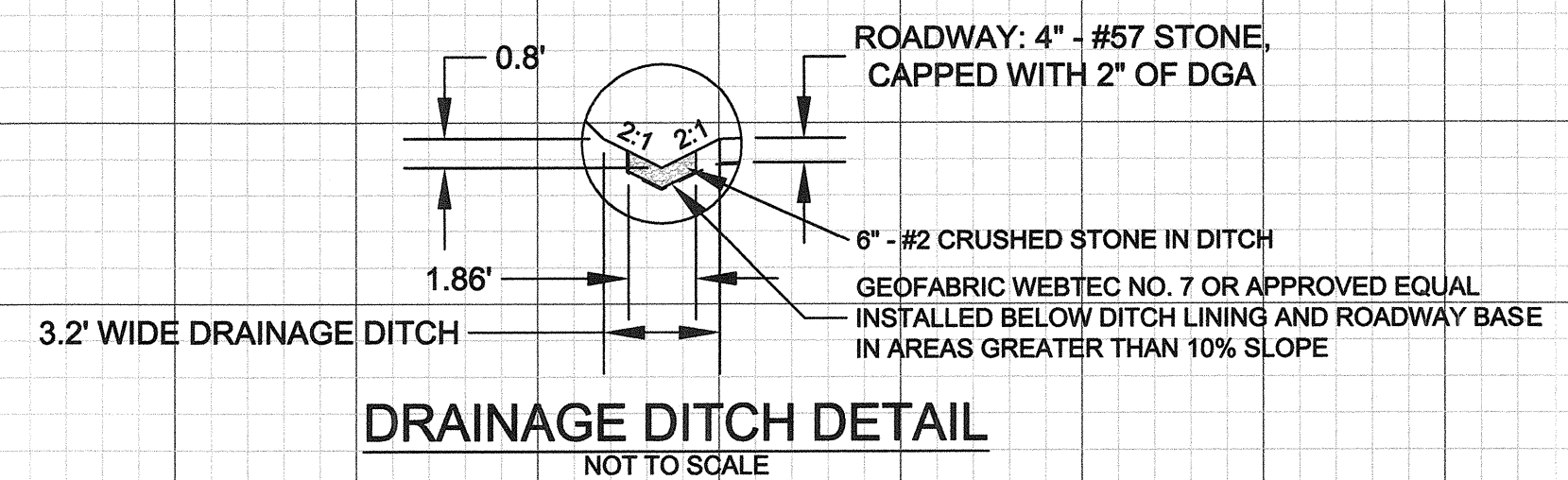
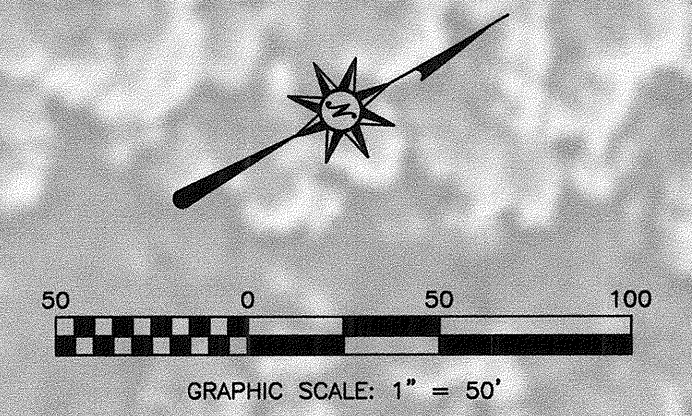
174 North Arnold Ave.  
 Prestonsburg, Kentucky  
 41653-1272  
 Tel (606) 886-8863  
 Fax (606) 886-1219



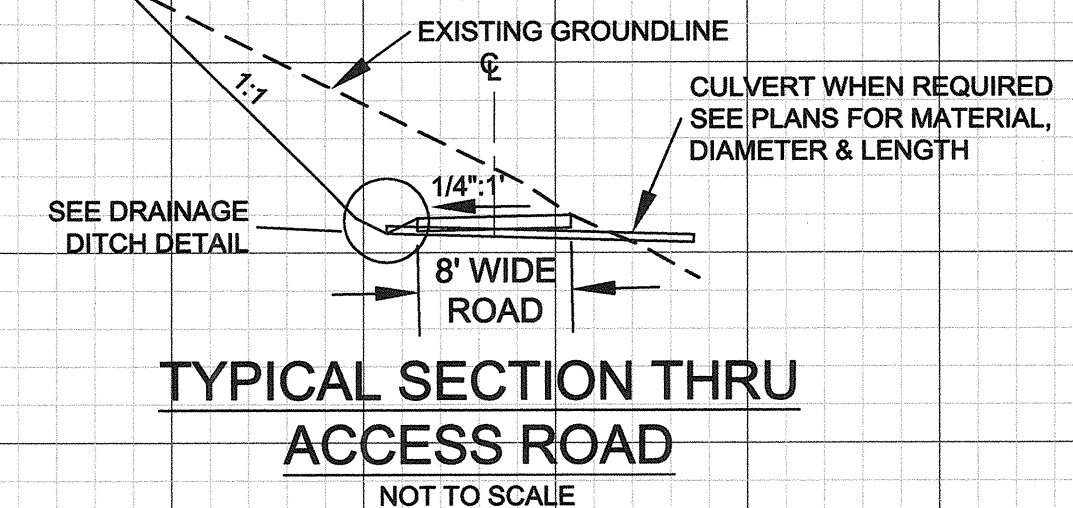
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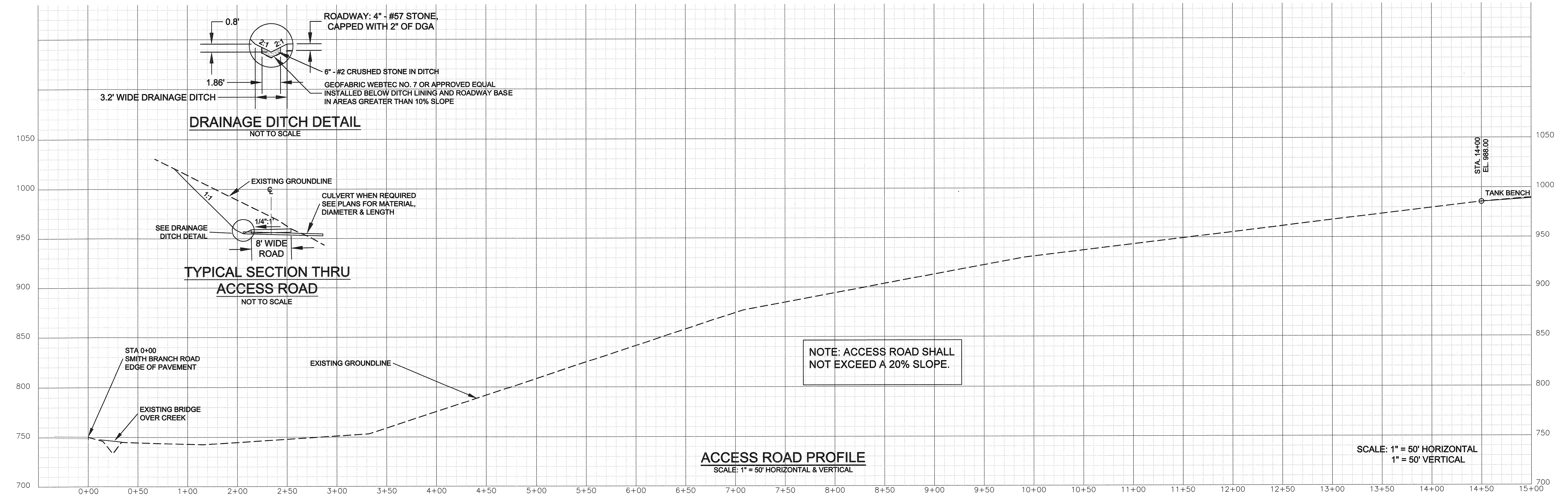
NOTE: ACCESS ROAD SHALL NOT EXCEED A 20% SLOPE.



**DRAINAGE DITCH DETAIL**  
NOT TO SCALE



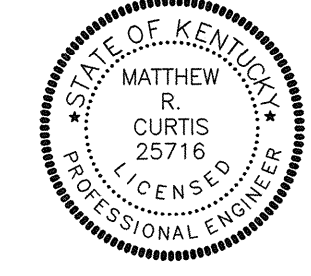
**TYPICAL SECTION THRU ACCESS ROAD**  
NOT TO SCALE



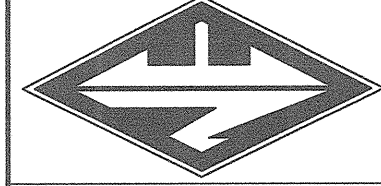
**ACCESS ROAD PROFILE**  
SCALE: 1" = 50' HORIZONTAL & VERTICAL

SCALE: 1" = 50' HORIZONTAL  
1" = 50' VERTICAL

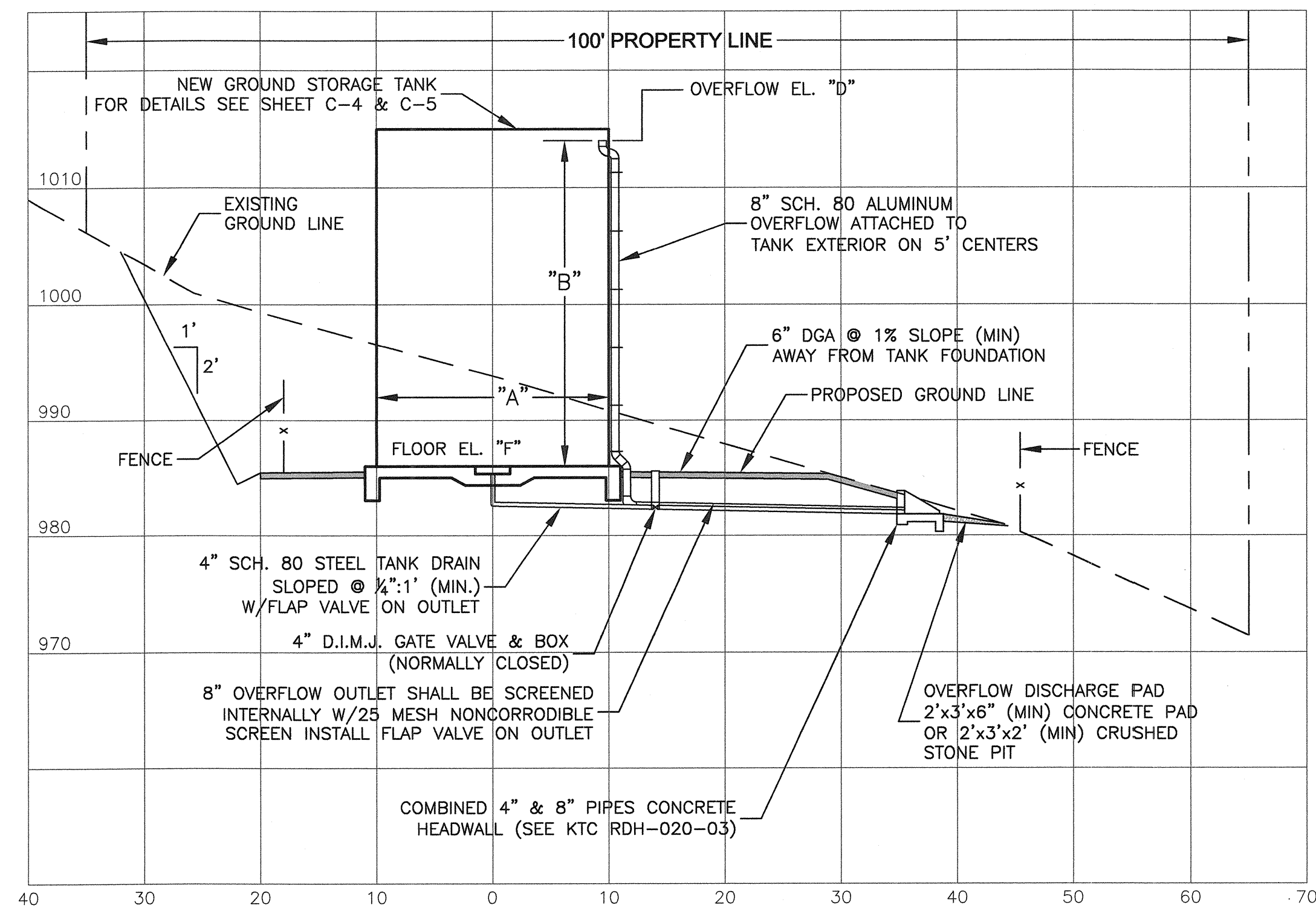
BREATHITT COUNTY WATER DISTRICT  
1137 MAIN STREET  
JACKSON, KENTUCKY 41339  
CONTRACT 2 - KY 1098 SOUTH FORK TANK  
SOUTH FORK STORAGE TANK ACCESS ROAD



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CONTRACT 2 - KY 1098 SOUTH FORK TANK  
scale: AS SHOWN  
job no.: 998-27  
file name: \03 design\Contract 2\DESIGN\site\_plan.dwg  
class: 11-04-11  
drawn by: AMJ

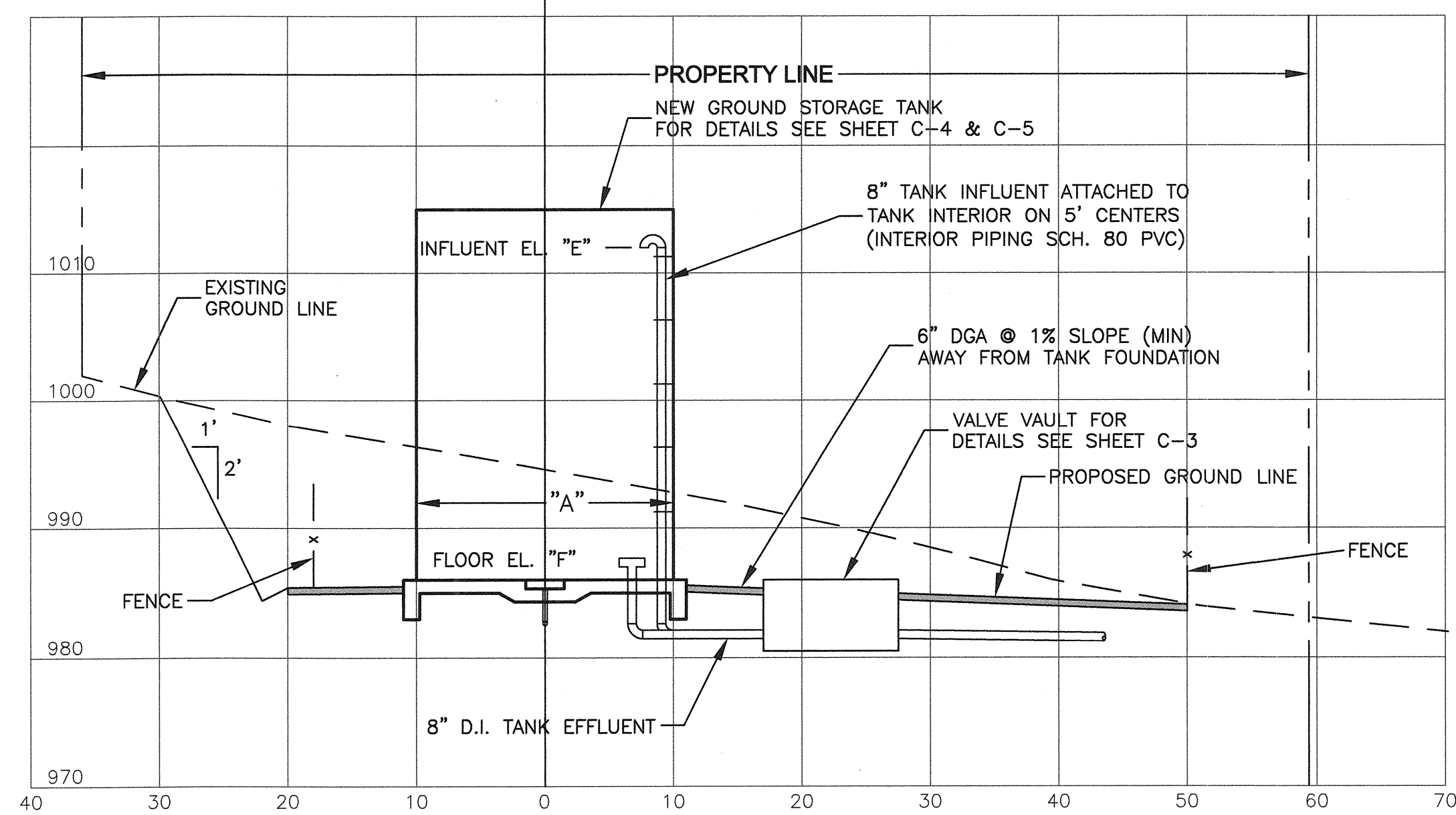


sheet no. C-1



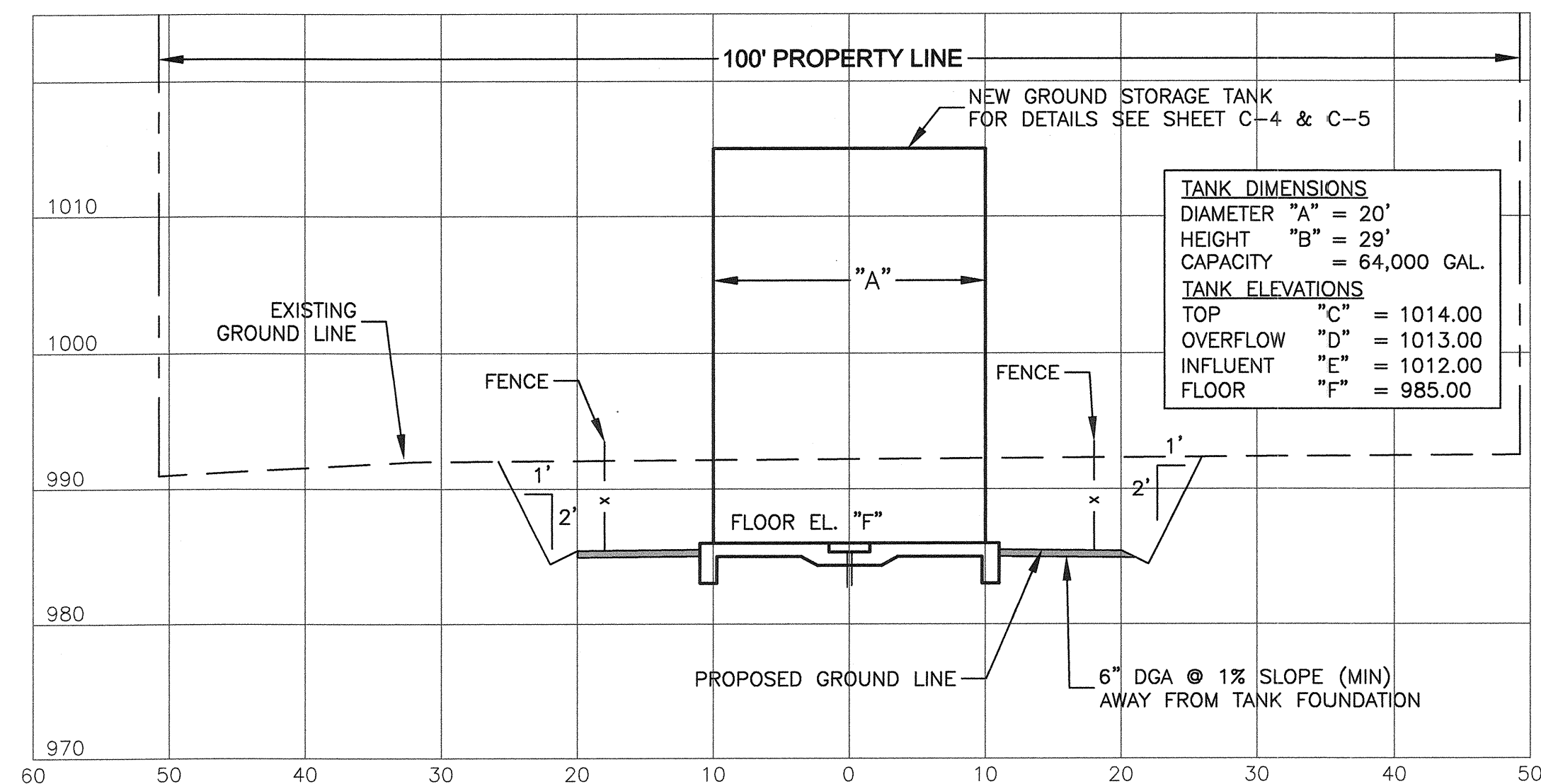
SECTION A THRU TANK DRAIN & OVERFLOW PIPING

SCALE: 1" = 10' HORIZONTAL & VERTICAL



SECTION B THRU VALVE VAULT

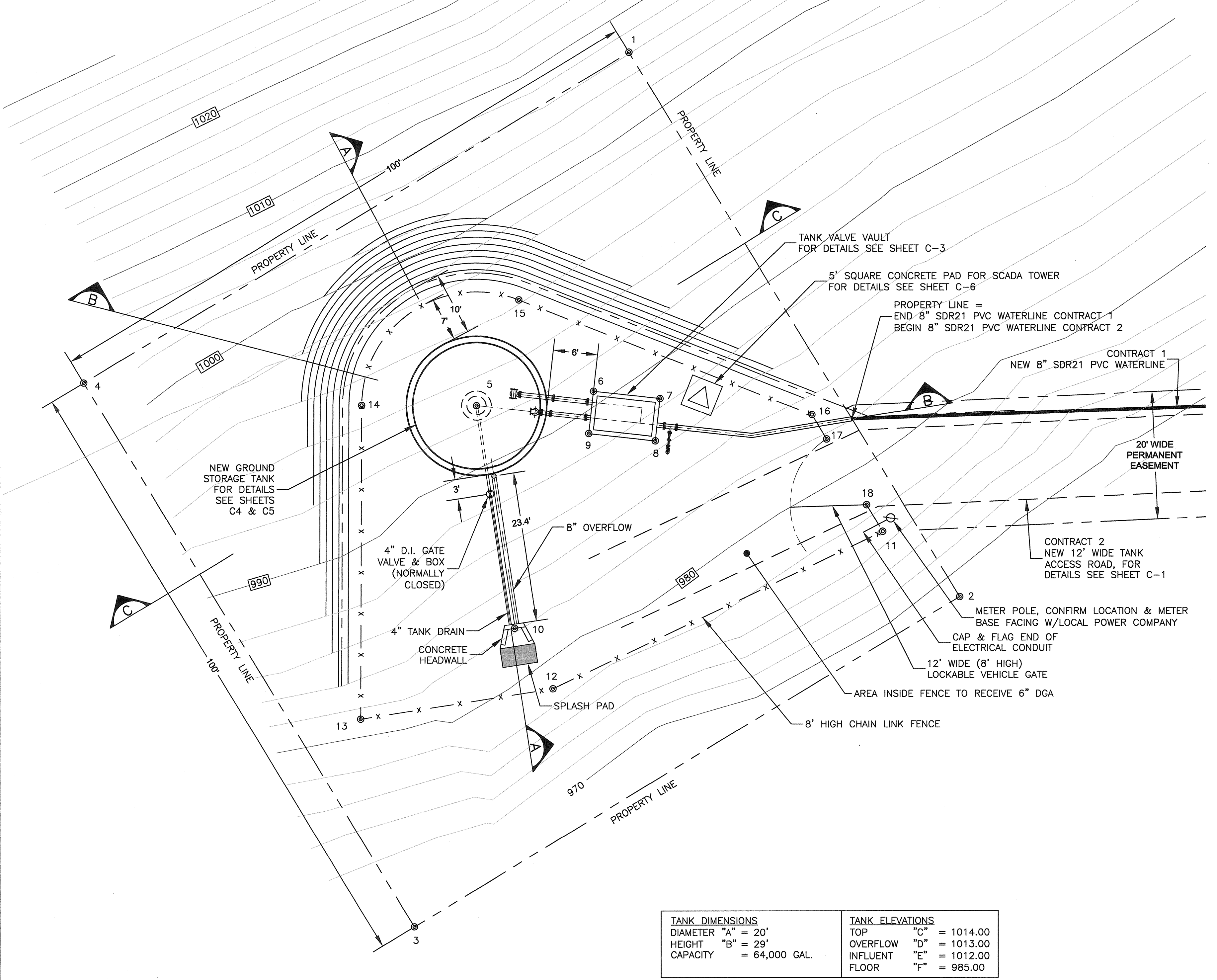
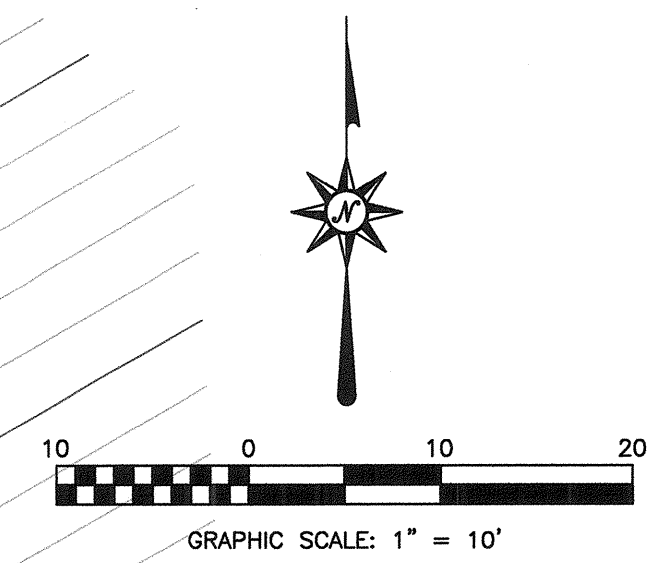
SCALE: 1" = 10' HORIZONTAL & VERTICAL



SECTION C THRU TANK

SCALE: 1" = 10' HORIZONTAL & VERTICAL

KENTUCKY STATE PLANE COORDINATE SYSTEM NAD 83			
PT	EASTING	NORTHING	DESCRIPTION
1	2347350.4014	2084650.6084	P.L. CORNER
2	2347402.2288	2084565.0870	P.L. CORNER
3	2347316.7073	2084513.2596	P.L. CORNER
4	2347284.8799	2084598.7810	P.L. CORNER
5	2347326.4700	2084595.1188	C.L. TANK
6	2347344.8201	2084597.3708	VALVE VAULT CORNER
7	2347355.2549	2084596.2030	VALVE VAULT CORNER
8	2347354.5042	2084589.4949	VALVE VAULT CORNER
9	2347344.0694	2084590.6627	VALVE VAULT CORNER
10	2347332.4238	2084560.1658	HEADWALL C.L. @ OUTLET
11	2347390.1786	2084575.3238	FENCE CORNER
12	2347338.4393	2084550.5899	FENCE CORNER
13	2347308.2804	2084545.8503	FENCE CORNER
14	2347308.4701	2084595.1881	FENCE CORNER
15	2347333.1199	2084611.8454	FENCE CORNER
16	2347379.0793	2084593.5735	FENCE CORNER
17	2347381.3897	2084589.7396	FENCE CORNER @ GATE
18	2347387.6475	2084579.5005	FENCE CORNER @ GATE



TANK DIMENSIONS		TANK ELEVATIONS	
DIAMETER "A"	= 20'	TOP "C"	= 1014.00
HEIGHT "B"	= 29'	OVERFLOW "D"	= 1013.00
CAPACITY	= 64,000 GAL.	INFLUENT "E"	= 1012.00
		FLOOR "F"	= 985.00

SOUTH FORK TANK SITE PLAN

SCALE: 1" = 10'

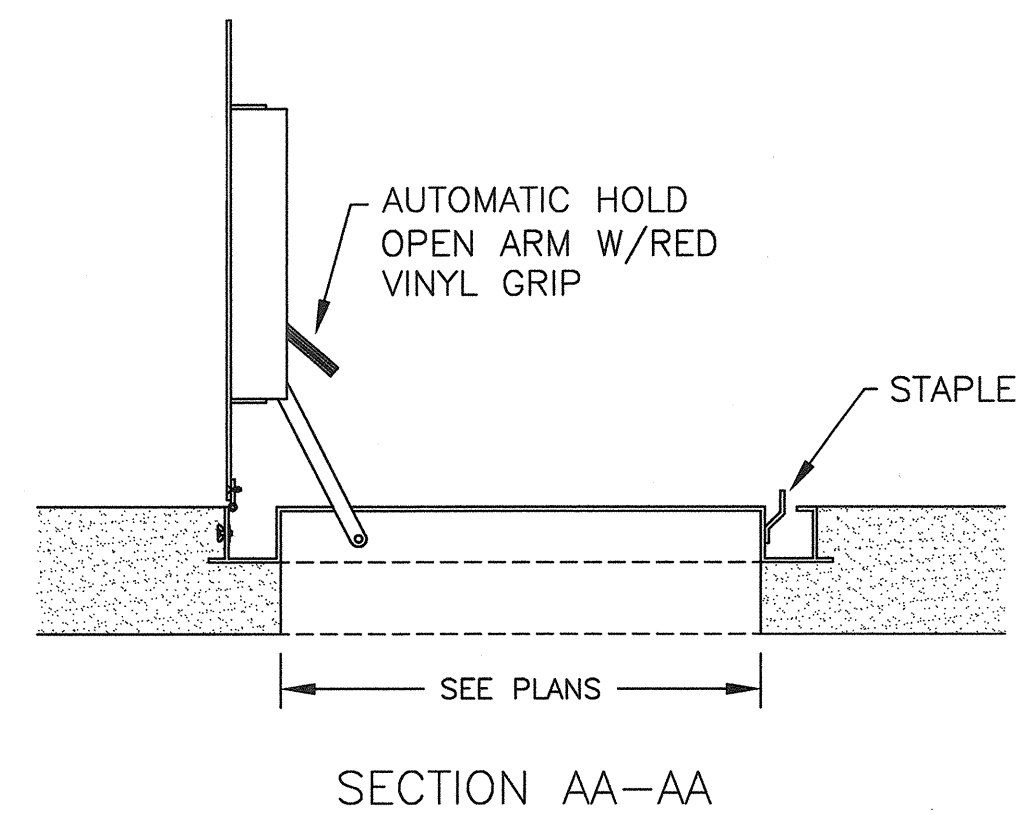
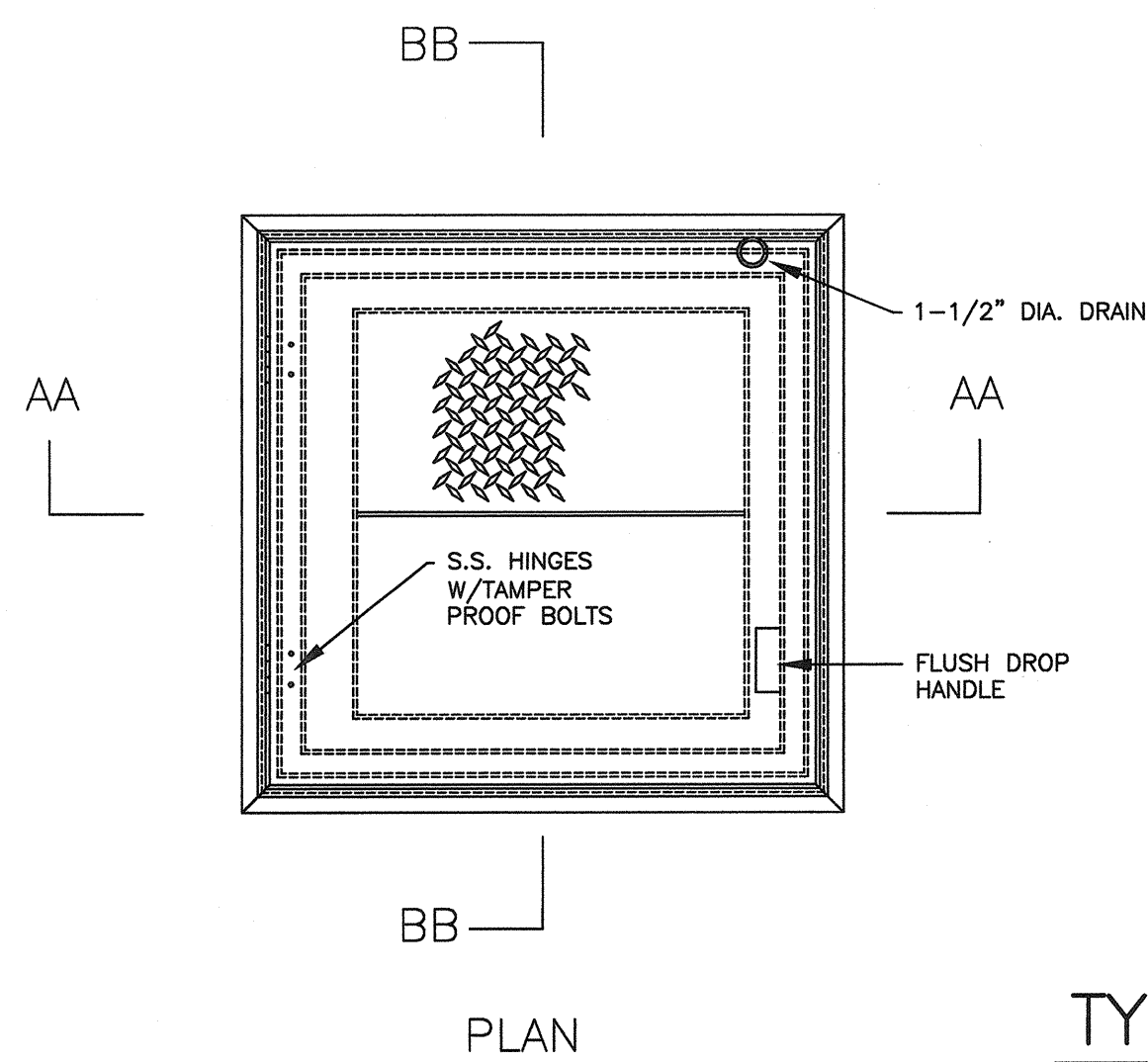
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BREATHITT COUNTY WATER DISTRICT  
1137 MAIN STREET  
JACKSON, KENTUCKY 41339  
CONTRACT 2 - KY 1098 SOUTH FORK TANK  
SOUTH FORK STORAGE TANK PLAN & SECTIONS

STATE OF KENTUCKY  
MATTHEW R. CURTIS  
25716  
PROFESSIONAL ENGINEER

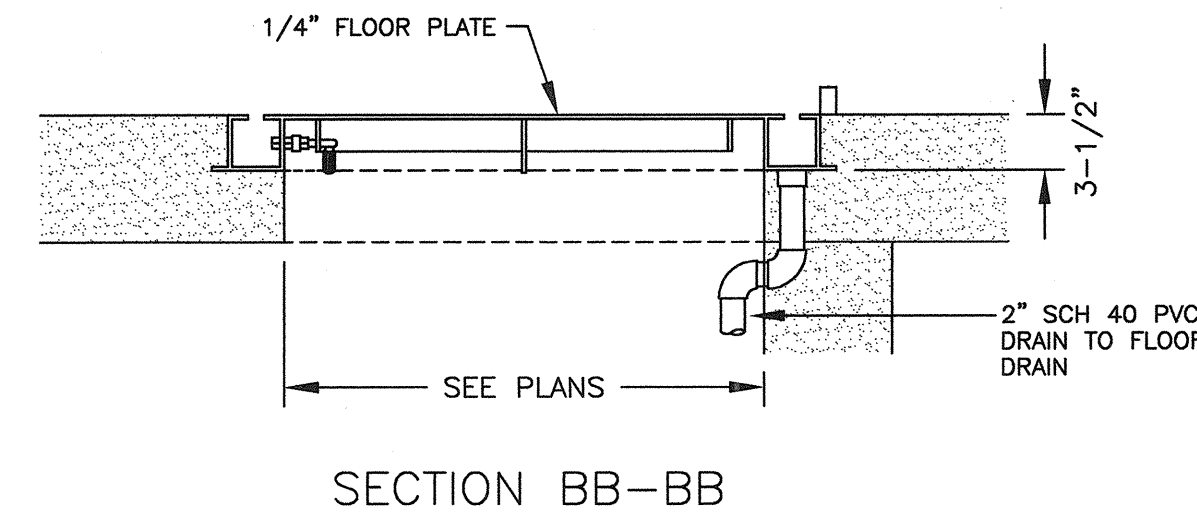
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BREATHITT COUNTY WATER DISTRICT  
KY 1098 SOUTH FORK WATERLINE PROJECT  
JOB NO.: 988-27  
DATE: 11-04-11  
DRAWN BY: JCW  
CHECKED BY: AS SHOWN  
FILE NAME: \03 design\Contract 2\DESIGN\site plan.dwg

Sheet No. C-2



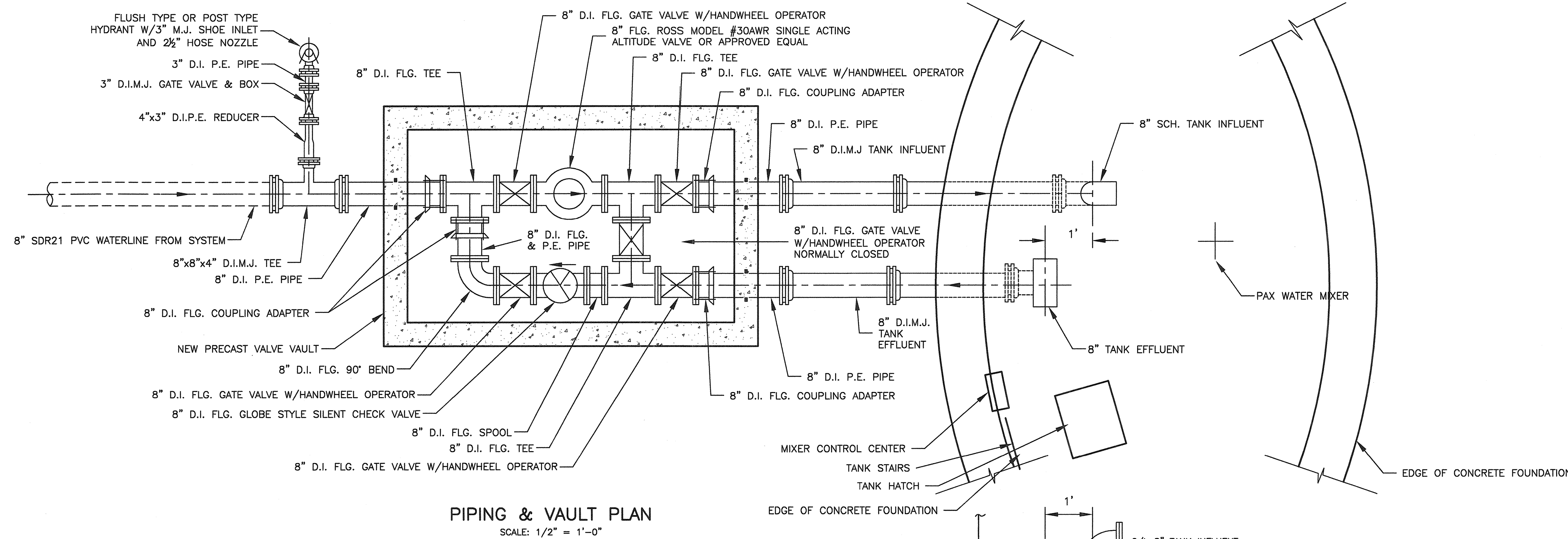
NOTES:

1. MATERIAL: ALUMINUM WITH STAINLESS STEEL NUTS AND HINGES
2. LOADING: 300 LBS. PER SQ. FOOT
3. BILCO TYPE J OR EQUAL

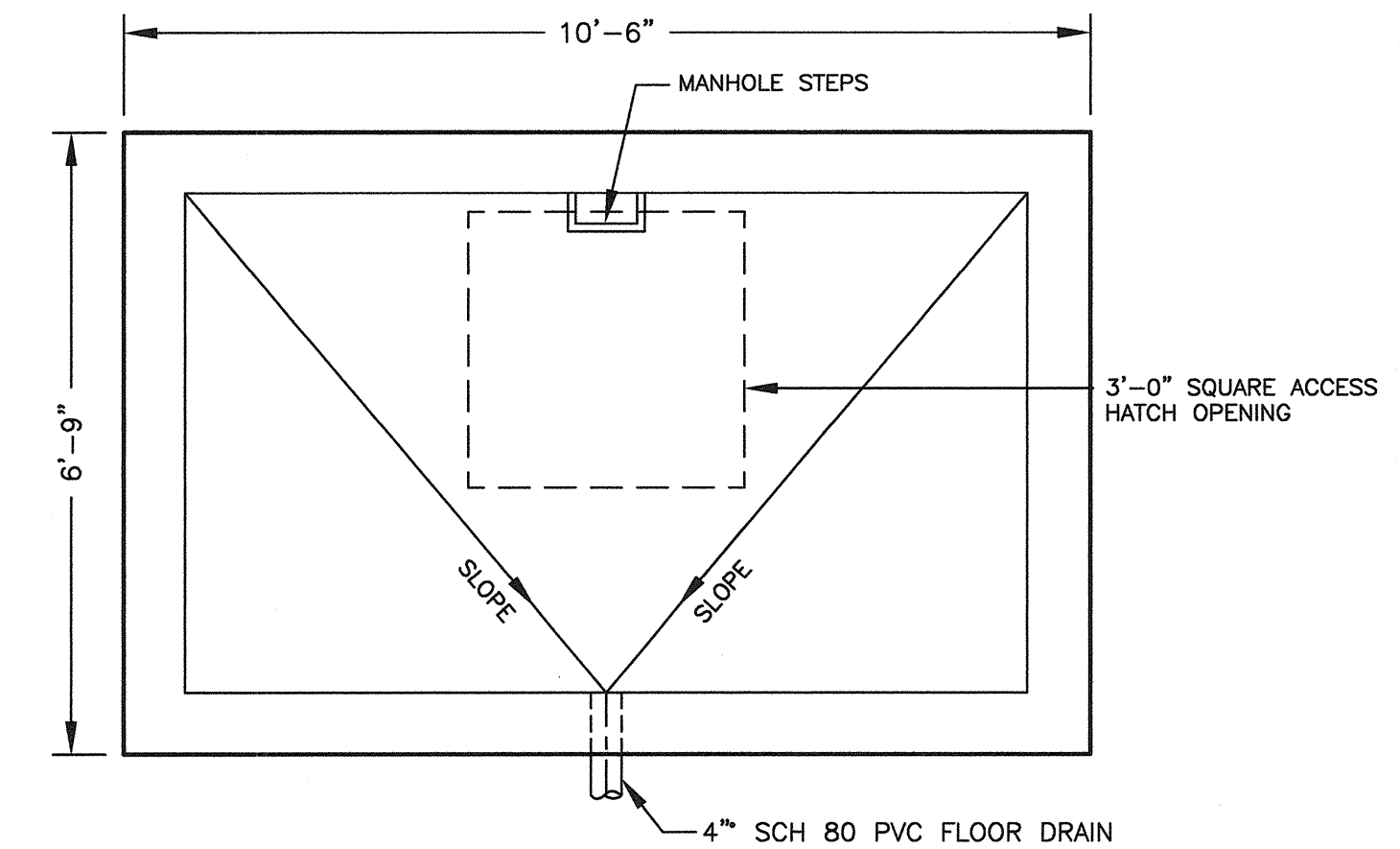


TYPICAL WATERPROOF ACCESS HATCH DETAILS

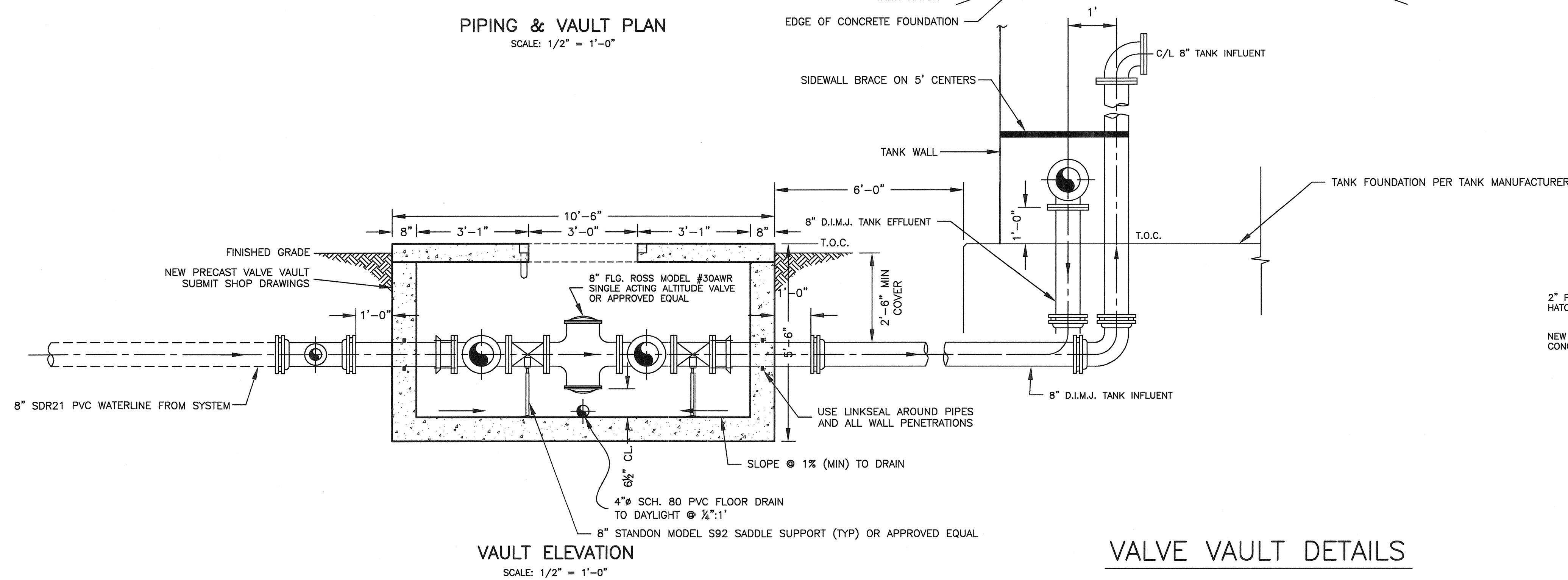
NOT TO SCALE



PIPING & VAULT PLAN  
SCALE: 1/2" = 1'-0"

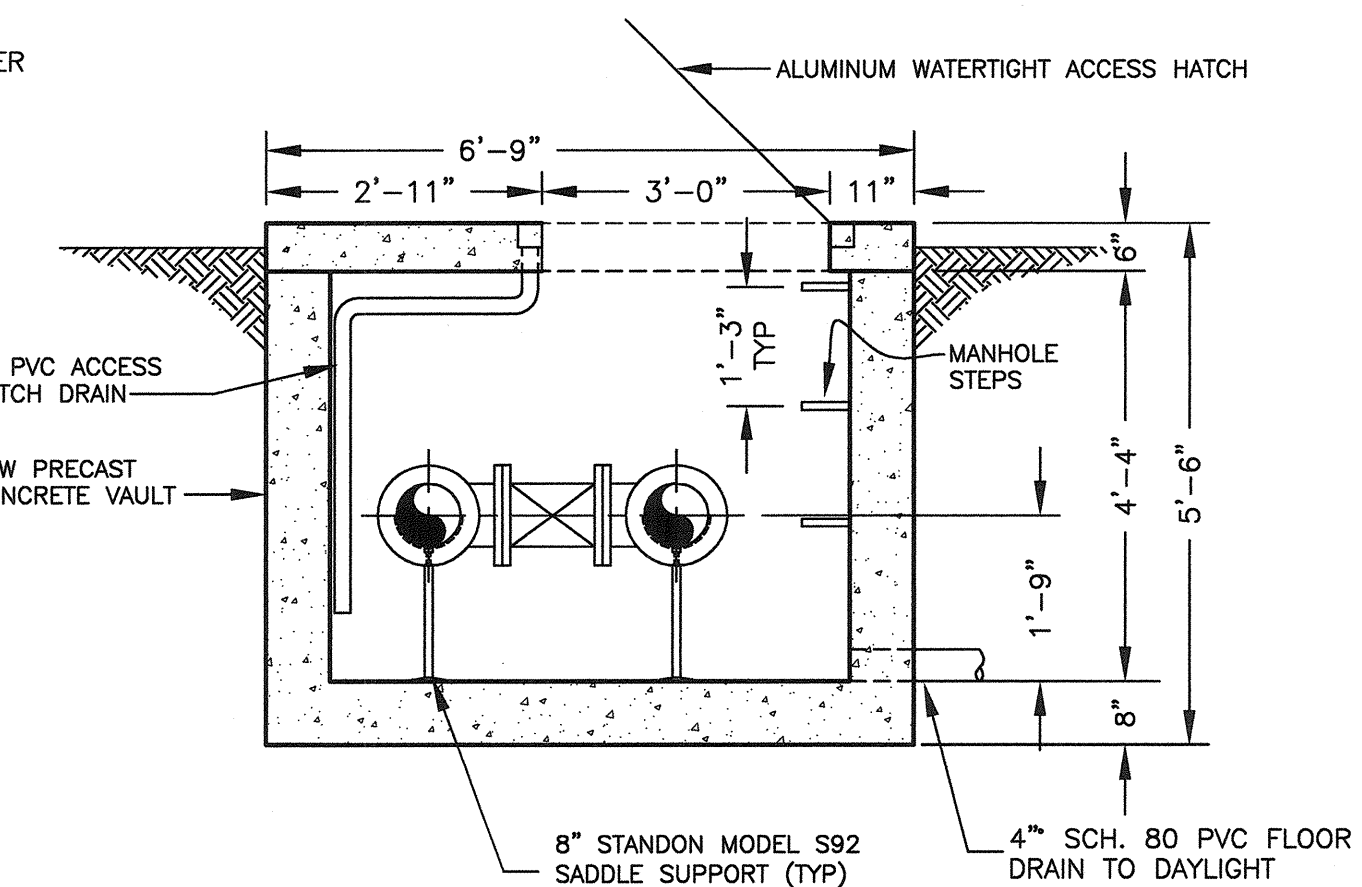


VAULT PLAN  
SCALE: 1/2" = 1'-0"



VAULT ELEVATION  
SCALE: 1/2" = 1'-0"

VALVE VAULT DETAILS



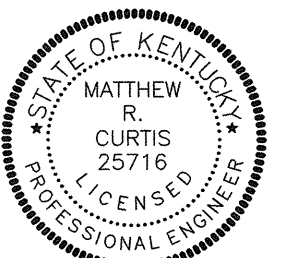
VAULT SECTION  
SCALE: 1/2" = 1'-0"

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REVISIONS:

BREATHITT COUNTY WATER DISTRICT  
1137 MAIN STREET  
JACKSON, KENTUCKY 41339  
CONTRACT 2 - KY1098 SOUTH FORK TANK  
VALVE VAULT DETAILS

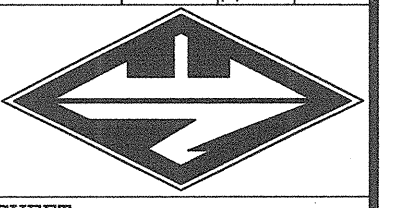


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CONTRACT 2 - SOUTH FORK TANK

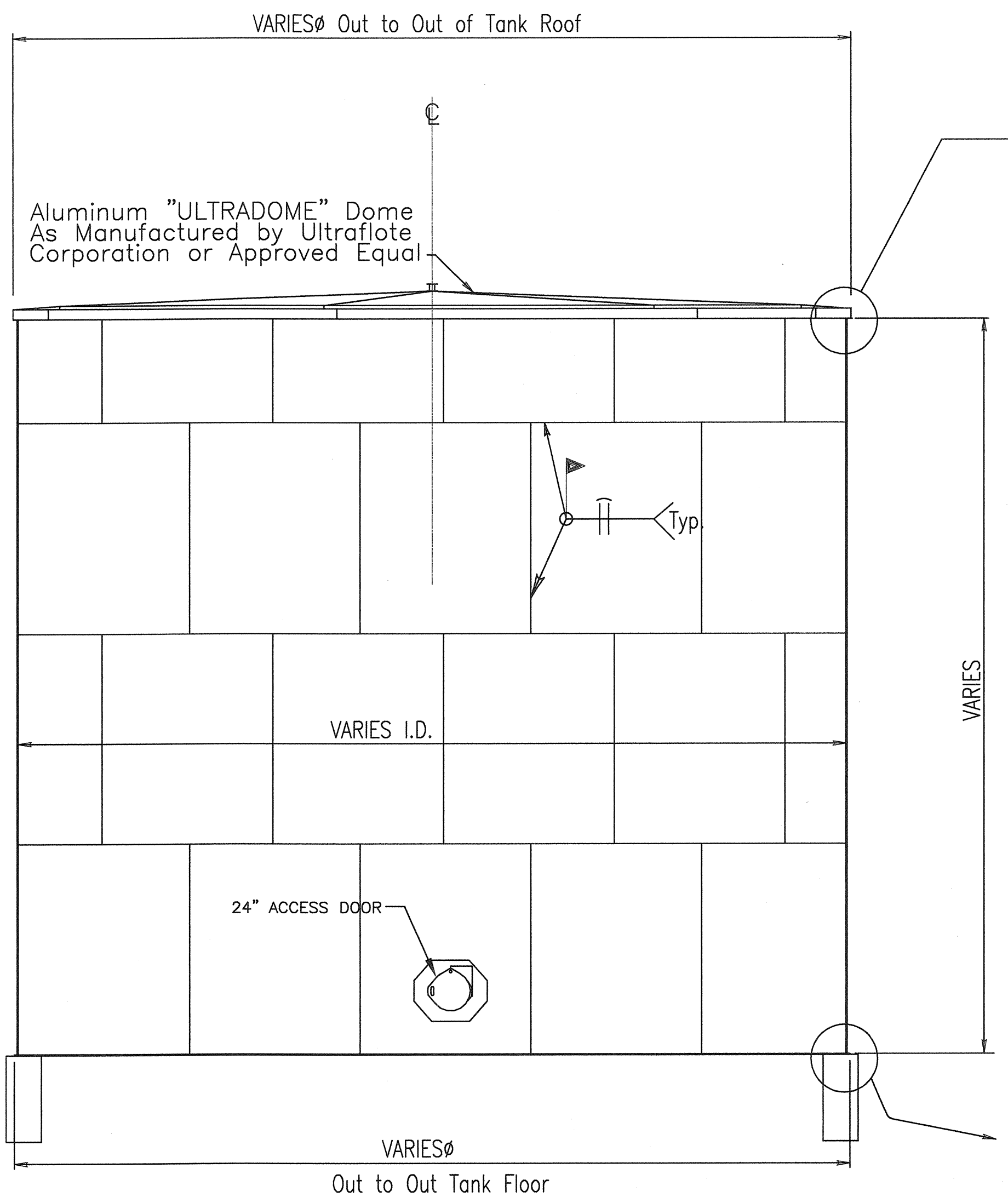
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DATE: 11-04-11  
JOB NO.: 998-27  
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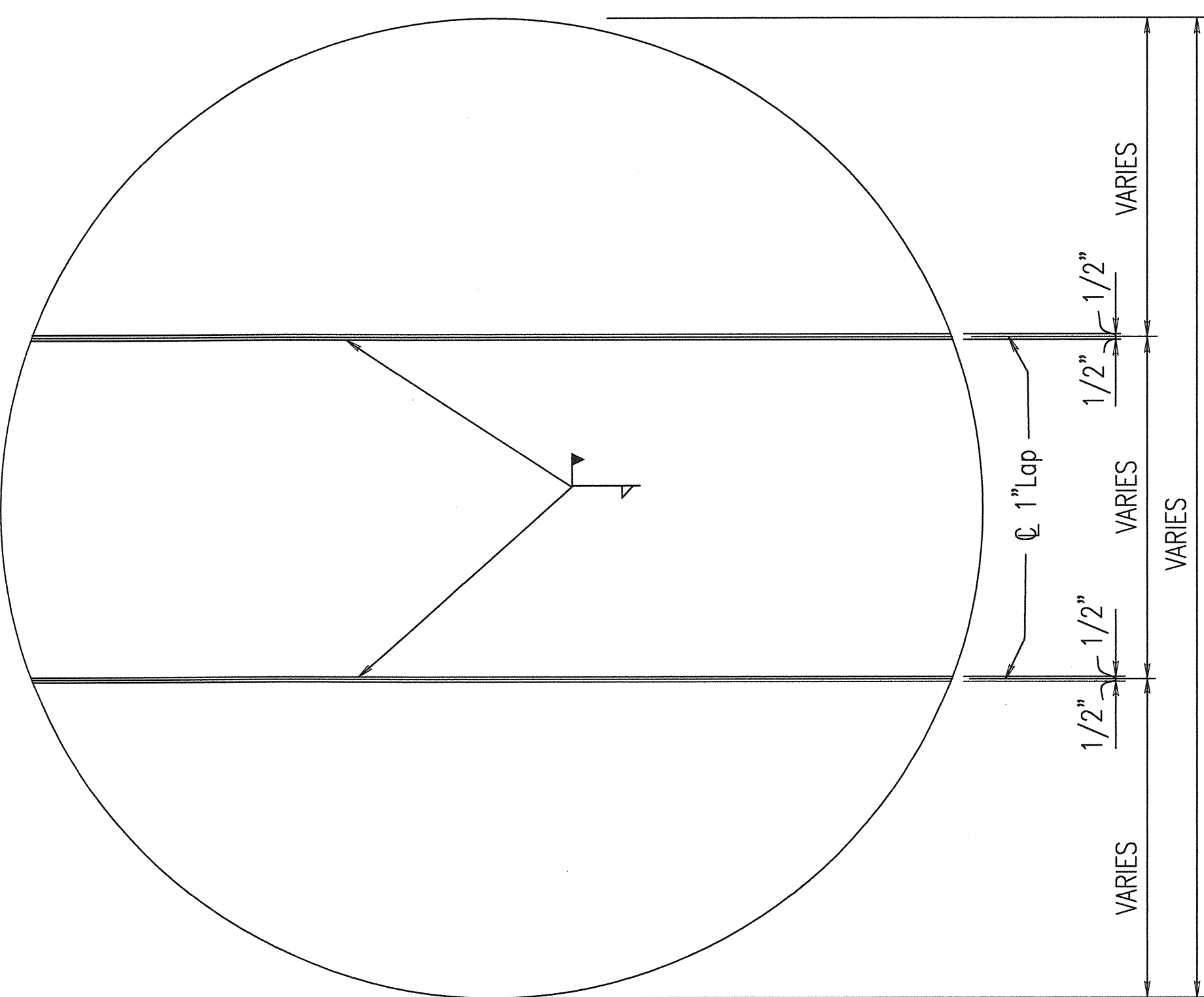


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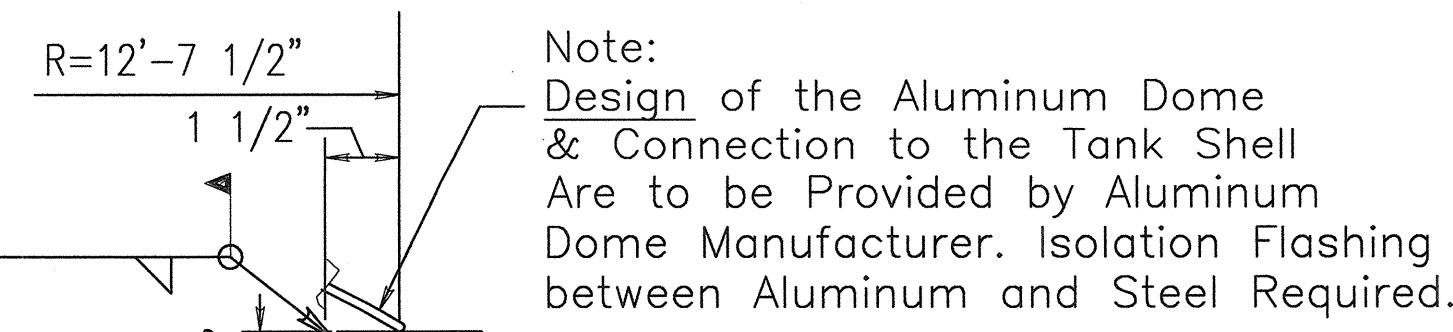
C-3



ELEVATION



PLAN TANK BOTTOM

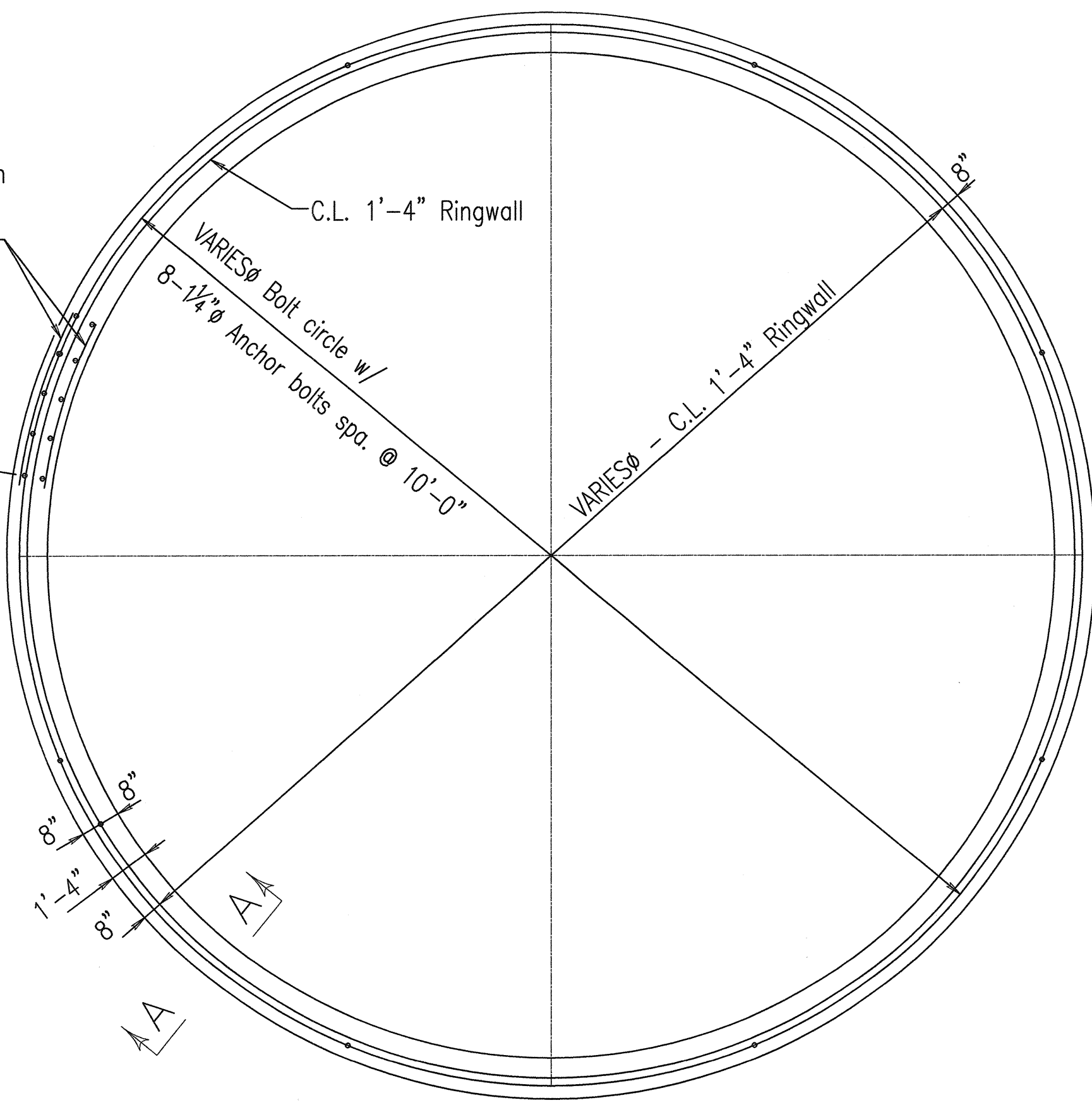


Note:  
Design of the Aluminum Dome  
& Connection to the Tank Shell  
Are to be Provided by Aluminum  
Dome Manufacturer. Isolation Flashing  
between Aluminum and Steel Required.

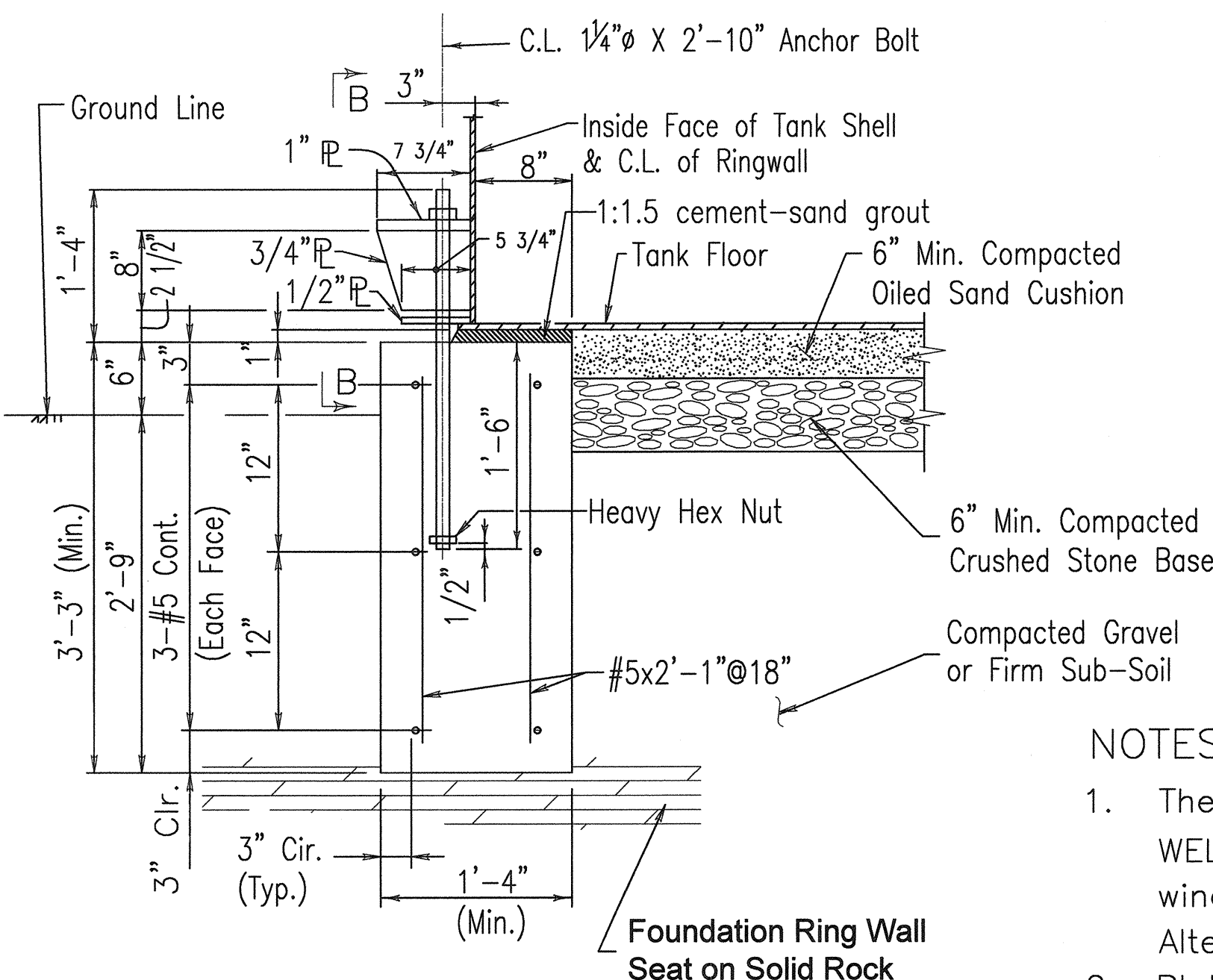
TANK SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY.  
TANKS TO BE CONSTRUCTED ARE AS FOLLOWS:

DESCRIPTION	KY 1098 SOUTH FORK TANK
CAPACITY	64,000 GALLON
DIAMETER	20'
HEIGHT	29'
FLOOR ELEV.	985'
OVERFLOW EL.	1013'

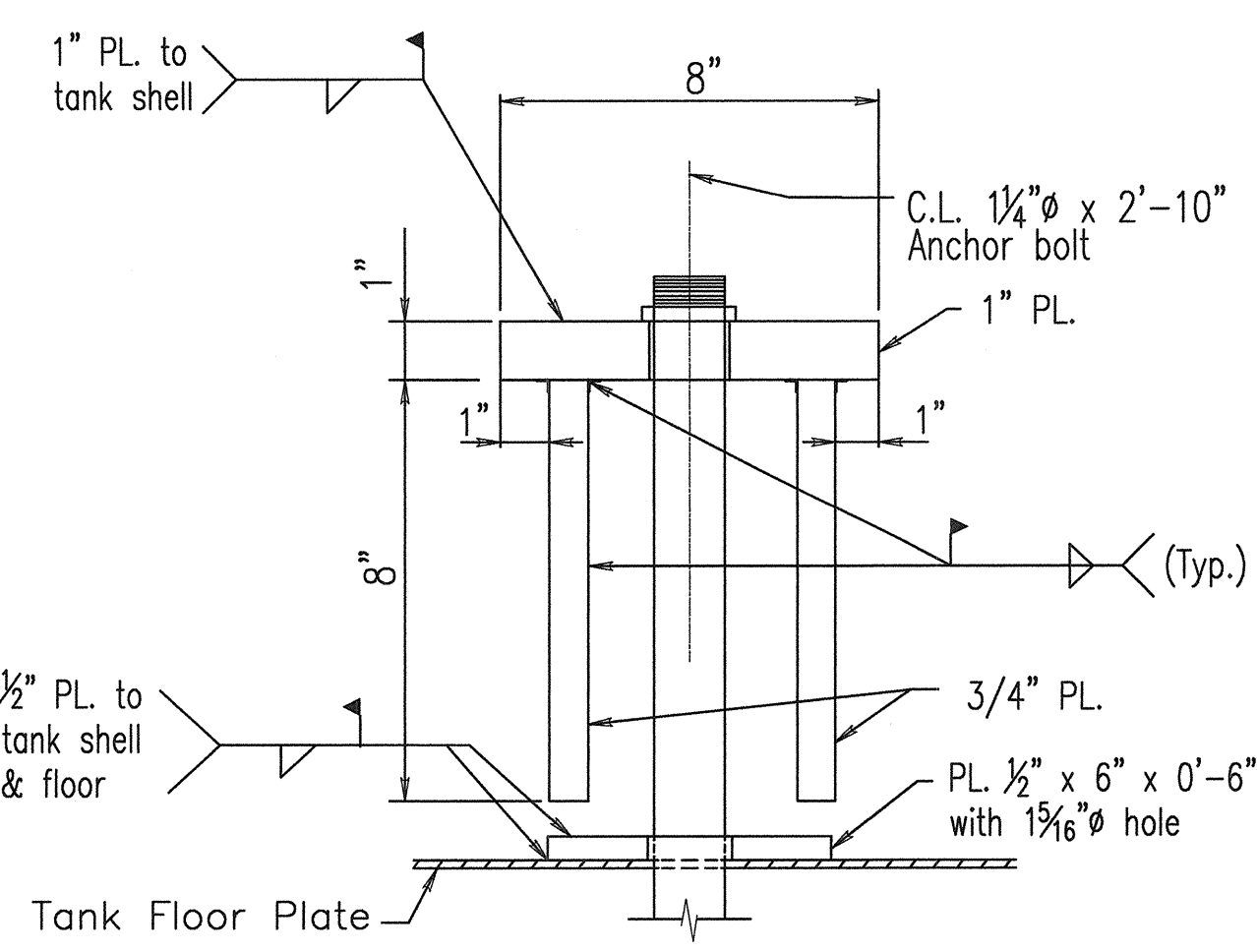
3 - #5 Cont. Each  
Face of ringwall  
(min. 2'-0" lap)  
#5 x 2'-1" Sp. @18" Max  
Each face of ringwall



RINGWALL FOUNDATION PLAN



SECTION A-A



VIEW B-B

NOTES

- The tank and tank foundation are designed in accordance with AWWA STANDARD for WELDED STEEL TANKS FOR WATER STORAGE; (ANSI/AWWA D-100-96). The design wind loads are based on a 100 mile per hour wind and Zone 1 earthquake. Alternate bidding shall be used for glass lined tanks.
- Plate material for tank shell and tank bottom shall conform to the requirements of ASTM A36.
- Concrete shall have a minimum compressive strength of  $f'_c=4000$  psi at 28 days.
- Reinforcing steel shall be ASTM A615, A616 or A617, Grade 60.
- Reinforcing steel for concrete cast against earth shall have a minimum cover of 3". All other reinf. steel shall have a min. cover of 2".
- Lap splices for #5 continuous bars shall be staggered and shall be a minimum of 2'-0".
- Foundations are designed for a max. bearing pressure of 3000 psf. If any portion of the footing is founded on solid rock the entire footing must be founded on solid rock. Approval of the bearing pressure must be obtained from a Geotechnical Engineer familiar with the conditions of the site before proceeding with construction.
- All work shall be performed in accordance with AWWA Standard for Welded Steel Tanks for WATER STORAGE (ANSI-AWWA D100-96).
- Anchor Bolts shall be threaded rods conforming to the requirements of ASTM-A36.
- This Drawing is Not to Scale and shows a Welded Steel Water Storage Tank Foundation. Glass Lined, Bolted Steel, Water Storage Tank Foundation information may be Submitted as an Alternate, as Required.
- The Contractor shall submit a Final Foundation Design and Detail Plan Stamped by an ENGINEER REGISTERED IN KENTUCKY.

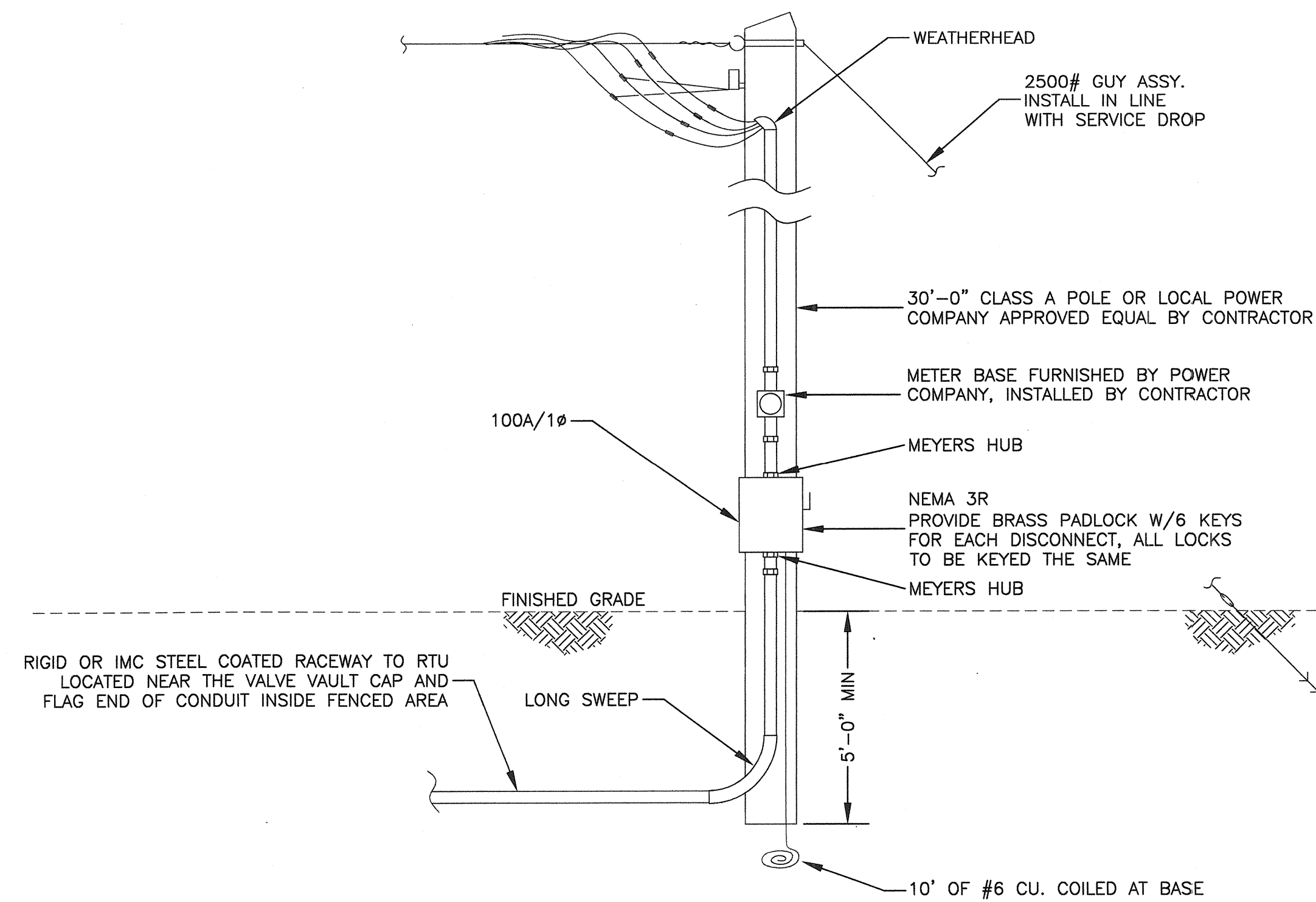
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CONTRACT 2 - KY1098 SOUTHFORK TANK  
WATER STORAGE TANK DETAILS

STATE OF KENTUCKY  
MATTHEW R. CURTIS  
25716  
LICENSED PROFESSIONAL ENGINEER

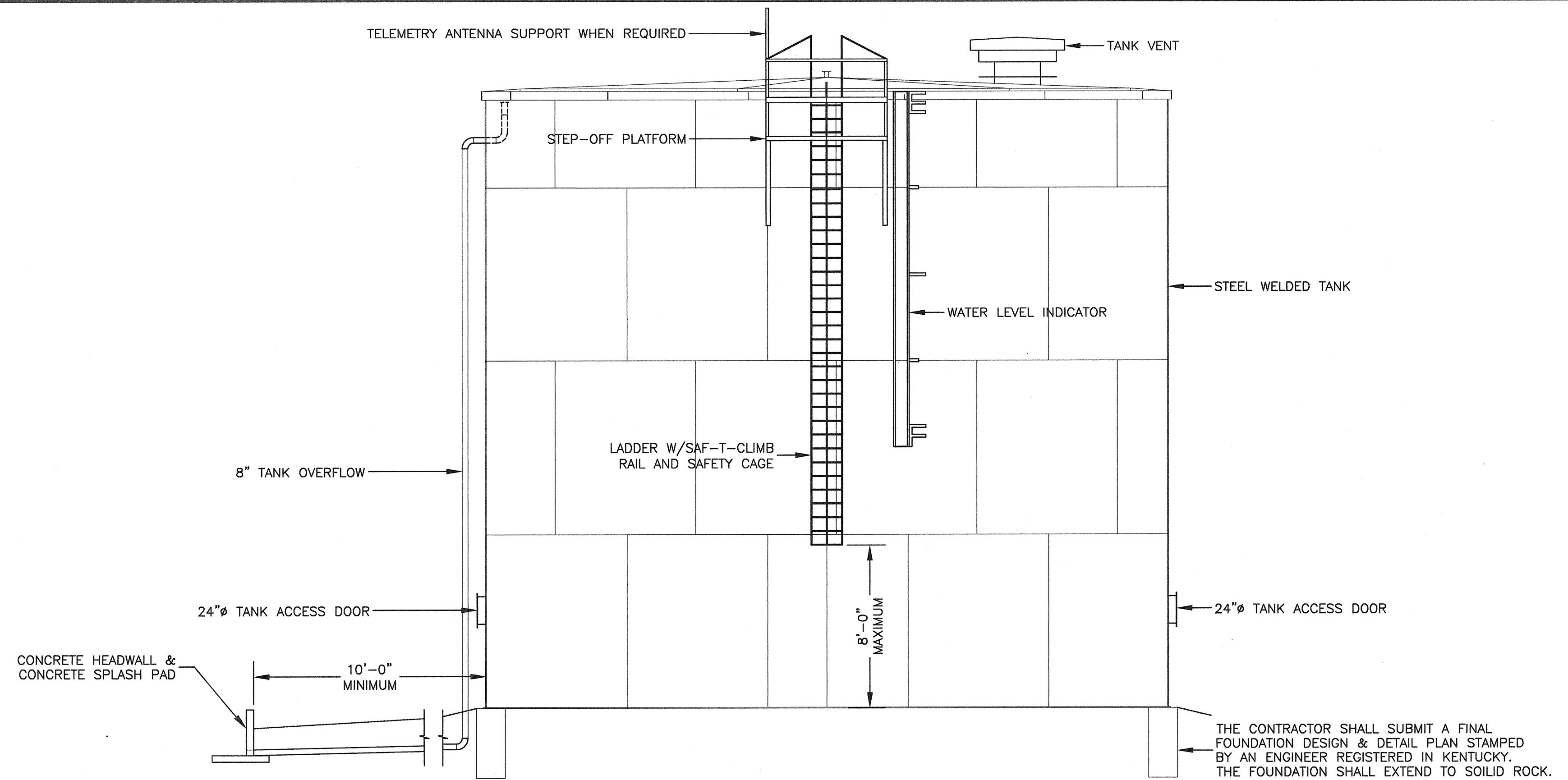
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providing proven solutions since 1976  
BREATHITT COUNTY WATER DISTRICT  
CONTRACT 2 - KY1098 SOUTHFORK TANK  
DESIGNER: JCW  
DATE: 11-04-11  
JOB NO.: 998.27  
SCALE: NOT TO SCALE  
FILE NAME: 03 design/Contract 2/DESIGN/TANK DETAILS.dwg

SHEET NO. C-4



NOTE: CONTRACTOR SHALL CONTACT LOCAL POWER COMPANY AND MAKE NECESSARY ARRANGEMENTS FOR NEW SERVICE. ANY INSTALLATION COST REQUIRED BY THE POWER COMPANY SHALL BE THE CONTRACTOR'S RESPONSIBILITY AS PART OF THE BID PRICE.

**SERVICE POLE DETAIL**  
NOT TO SCALE



**ELEVATION**

NOTE: COORDINATE WITH CONTRACT 1 CONTRACTOR FOR TELEMETRY ANTENNA AND WATER TANK RTU LOCATION AND INSTALLATION WHEN REQUIRED

**NOTES**

**GENERAL**  
A. THE TANK AND TANK FOUNDATION ARE TO BE DESIGNED IN ACCORDANCE WITH AWWA STANDARD FOR WELDED STEEL TANKS FOR WATER STORAGE (ANSI/AWWA D-100-96).

**DESIGN CRITERIA**  
THIS STRUCTURE IS TO BE DESIGNED ACCORDING TO THE [2002] KENTUCKY BUILDING CODE AND FOR THE SPECIFIC LOADS THAT ARE LISTED BELOW.

**ROOF LOADS**

- DEAD LOAD = ACTUAL WEIGHTS OF MATERIALS & CONSTRUCTION
- LIVE LOAD = 20 PSF
- SNOW LOADS:  
GROUND SNOW LOAD (PG) = 15 PSF  
FLAT-ROOF SNOW LOAD (PF) = 15 PSF  
EXPOSURE FACTOR (CE) = 1.0  
IMPORTANCE FACTOR (IS) = 1.2  
THERMAL FACTOR (CT) = 1.2

**LIVE LOAD**

- SLAB ON GRADE = 3000 PSF

**LATERAL LOADS**

- WIND LOADS:  
BASIC WIND SPEED = 100 MPH  
IMPORTANCE FACTOR (IW) = 1.15  
BUILDING CATEGORY = III  
EXPOSURE = B  
MAIN WINDFORCE DESIGN PRESSURE (P) = 22 PSF  
COMPONENTS AND CLADDING DESIGN PRESSURE PER 2002 KBC FIGURE 1609.6(2):  
  
ZONE 1 = +10.0 PSF OR - 13.3 PSF  
ZONE 2 = +10.0 PSF OR - 15.8 PSF  
ZONE 3 = +10.0 PSF OR - 15.8 PSF  
ZONE 4 = +12.4 PSF OR - 13.6 PSF  
ZONE 5 = +12.4 PSF OR - 15.1PSF
- SEISMIC LOADS:  
SEISMIC USE GROUP = III  
SEISMIC DESIGN CATEGORY = B (ROCK SEAT); C (SOIL FOUNDATION SEAT)  
SITE CLASS TYPE = B (ROCK SEAT); D (SOIL FOUNDATION SEAT)

**UPLIFT LOADING**

- INSTALL AND ANCHOR ROOF DECK UNITS TO RESIST GROSS UPLIFT LOADING OF 35 LBS. PER SQUARE FOOT AT EAVE OVERHANG AND 20 LBS. PER SQUARE FOOT FOR OTHER ROOF AREAS.

**FOUNDATION, FILLING, AND EXCAVATION**

- ALL FILL BELOW SLABS ON GRADE SHALL BE COMPACTED TO 98% OF STANDARD PROCTOR DENSITY, ASTM D698, AT +/- 2% OF OPTIMUM MOISTURE CONTENT (O.M.C.). ALL FILL IN THE BEARING ZONE BELOW FOOTINGS SHALL BE COMPACTED TO 100% OF S.P.D. +/- 2% OF O.M.C.
- A MINIMUM OF ONE FIELD DENSITY TEST SHOULD BE PERFORMED FOR EACH 5,000 SQUARE FEET/THE SLAB AREA WITH A MINIMUM OF TWO TESTS FOR EACH LAYER OF FILL. FOR BACKFILL OF DITCHES OR TRENCHES, ONE DENSITY TEST SHOULD BE PERFORMED FOR EACH 10 CUBIC YARDS (IN PLACE) OF BACKFILL MATERIAL, UNLESS OTHERWISE NOTED.
- FOUNDATIONS ARE DESIGNED FOR AN INTERIOR MINIMUM BEARING PRESSURE OF 3000 PSF. THE ENTIRE RINGWALL MUST BE FOUNDED ON SOLID ROCK, WITH A MINIMUM ALLOWABLE LOADING OF 5000 PSF (MIN.). APPROVAL OF THE BEARING PRESSURE MUST BE OBTAINED FROM A GEOTECHNICAL ENGINEER (REPORT TO BE SUPPLIED BY CONTRACTOR) FAMILIAR WITH THE CONDITIONS OF THE SITE BEFORE PROCEEDING WITH CONSTRUCTION.

**CAST IN PLACE CONCRETE**

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF F'C = 4000 PSI AT 28 DAYS.
- REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.
- REINFORCING STEEL FOR CONCRETE CAST AGAINST EARTH SHALL HAVE A MINIMUM COVER OF 3". ALL OTHER REINF STEEL SHALL HAVE A MINIMUM COVER OF 2". LAP SPLICES FOR #5 CONTINUOUS BARS SHALL BE STAGGERED AND SHALL BE A MINIMUM OF 2'-0".
- PRIOR TO FABRICATION, SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF CONCRETE REINFORCEMENT. COMPLY WITH ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" SHOWING BAR SCHEDULES, STIRRUP SPACING, DIAGRAMS OF BENT BARS, AND ARRANGEMENT OF CONCRETE REINFORCEMENT. INCLUDE SPECIAL REINFORCEMENT REQUIRED AND OPENINGS THROUGH CONCRETE STRUCTURES.
- SUBMIT LAB TEST REPORTS FOR CONCRETE MATERIALS AND MIX DESIGN TEST AS SPECIFIED.

**STEEL MATERIALS**

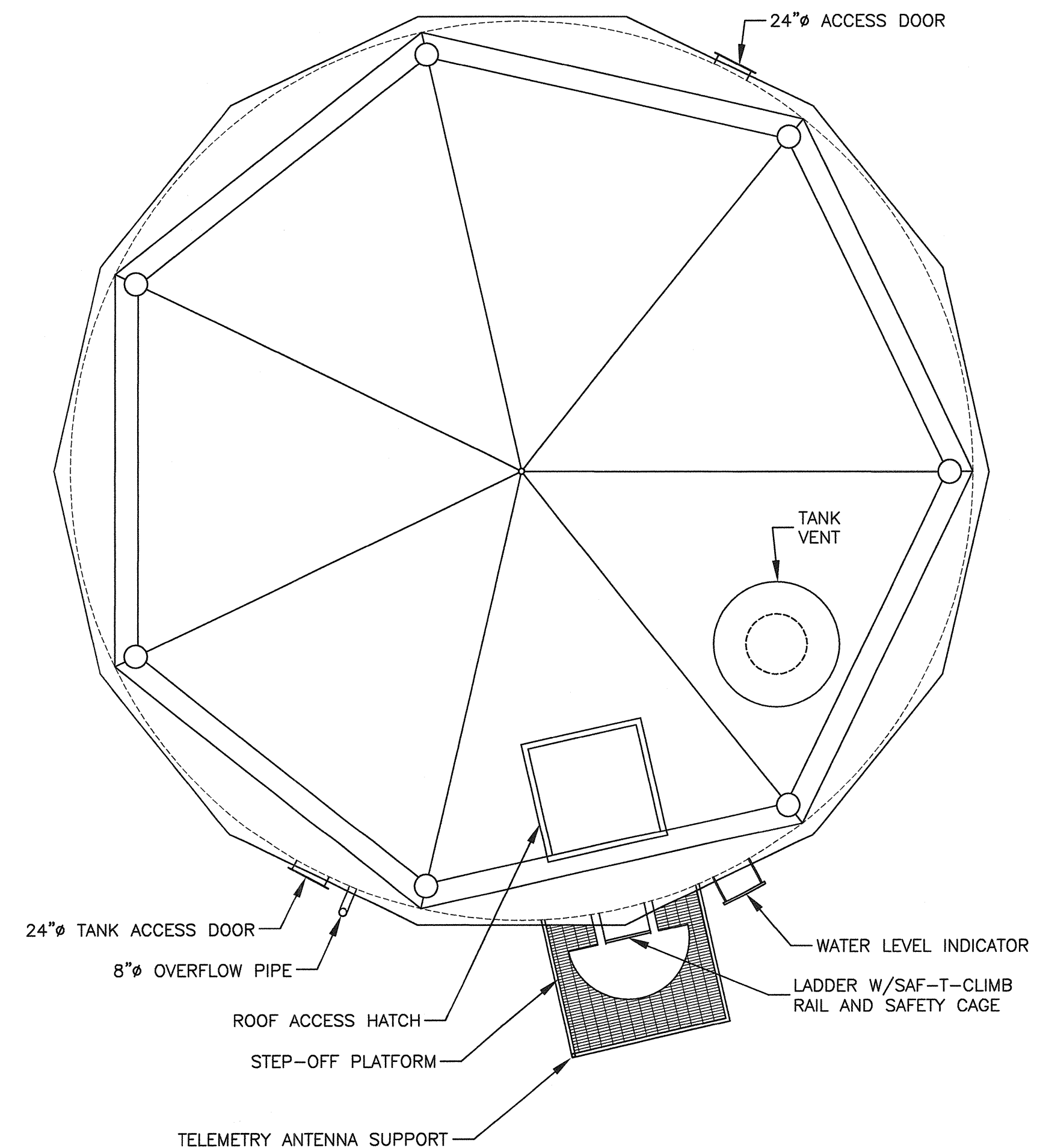
- PLATE MATERIAL FOR TANK SHELL AND TANK BOTTOM SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36. ALL WELDS TO BE MADE WITH E70XX RODS AND WELDING IS TO CONFORM TO LATEST AWS CODE.
- ANCHOR BOLTS SHALL BE THREADED RODS CONFORMING TO THE REQUIREMENTS OF ASTM-A307.

**NOTES**

- If the ringwall must be deeper than shown to reach solid rock, additional #5 ringwall reinforcement must be installed a 12" max. spacing.
- All work shall be performed in accordance with AWWA Standard for Welded Steel Tanks for WATER STORAGE (ANSI-AWWA D100-96).
- This Drawing is Not to Scale and shows a Welded Steel Water Storage Tank Foundation. Class Lined, Bolted Steel, Water Storage Tank Foundation information may be Submitted as an Alternate, as Required.
- The Contractor shall submit a Final Foundation Design and Detail Plan Stamped by an ENGINEER REGISTERED IN KENTUCKY.
- The Contractor shall have conducted at his expence a Geotech Investigation and Report.

TANK SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY. TANKS TO BE CONSTRUCTED ARE AS FOLLOWS:

DESCRIPTION	KY 1098 SOUTH FORK TANK
CAPACITY	64,000 GALLON
DIAMETER	20'
HEIGHT	29'
FLOOR ELEV.	985'
OVERFLOW EL.	1013'



**TANK PLAN**

LAST PLOTTED:  
LAST SAVED:

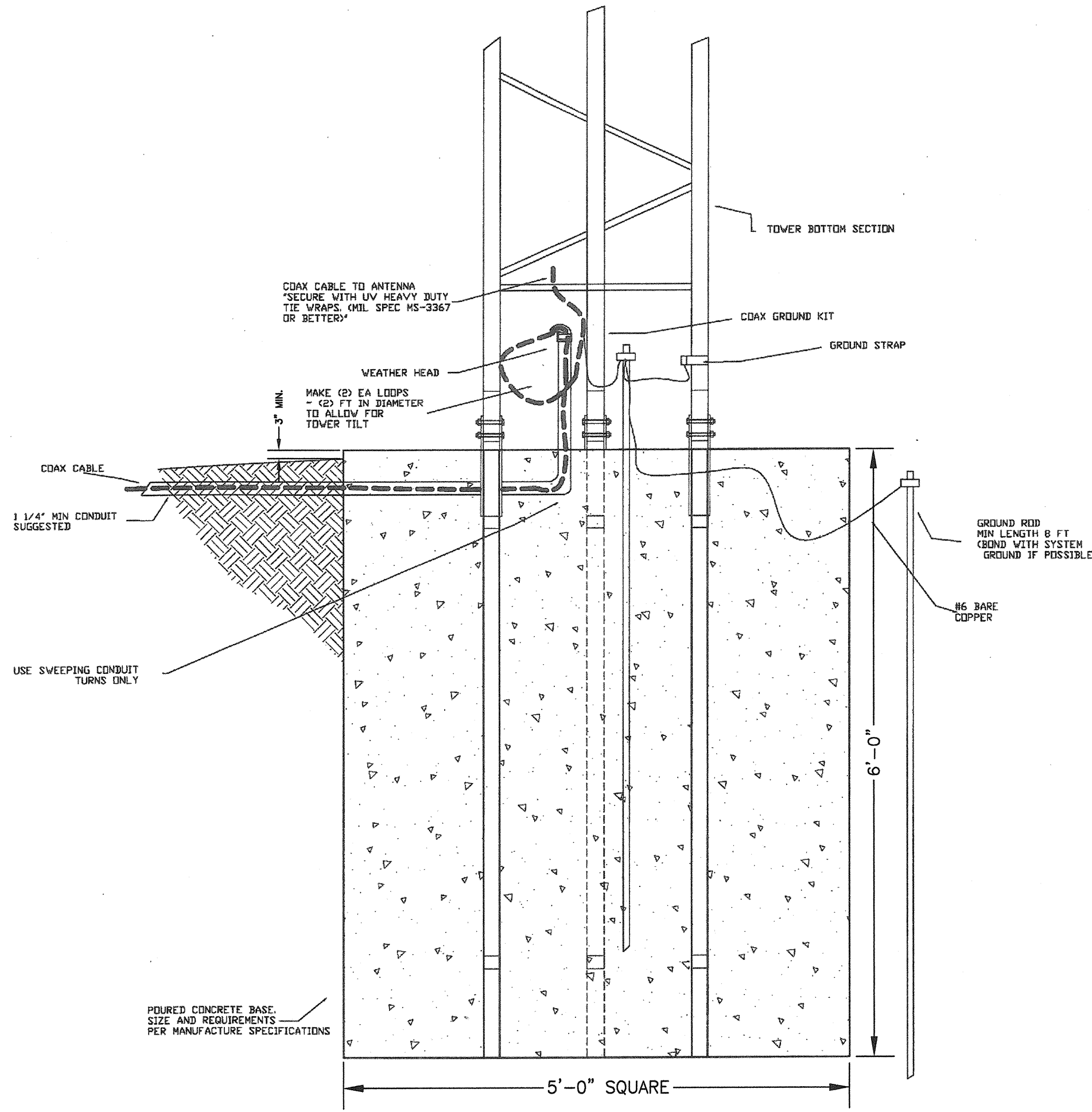
REVISIONS:

BREATHITT COUNTY WATER DISTRICT  
1137 MAIN STREET  
JACKSON, KENTUCKY 41339  
CONTRACT 2 - KY1098 SOUTHFORK TANK  
WATER STORAGE TANK DETAILS

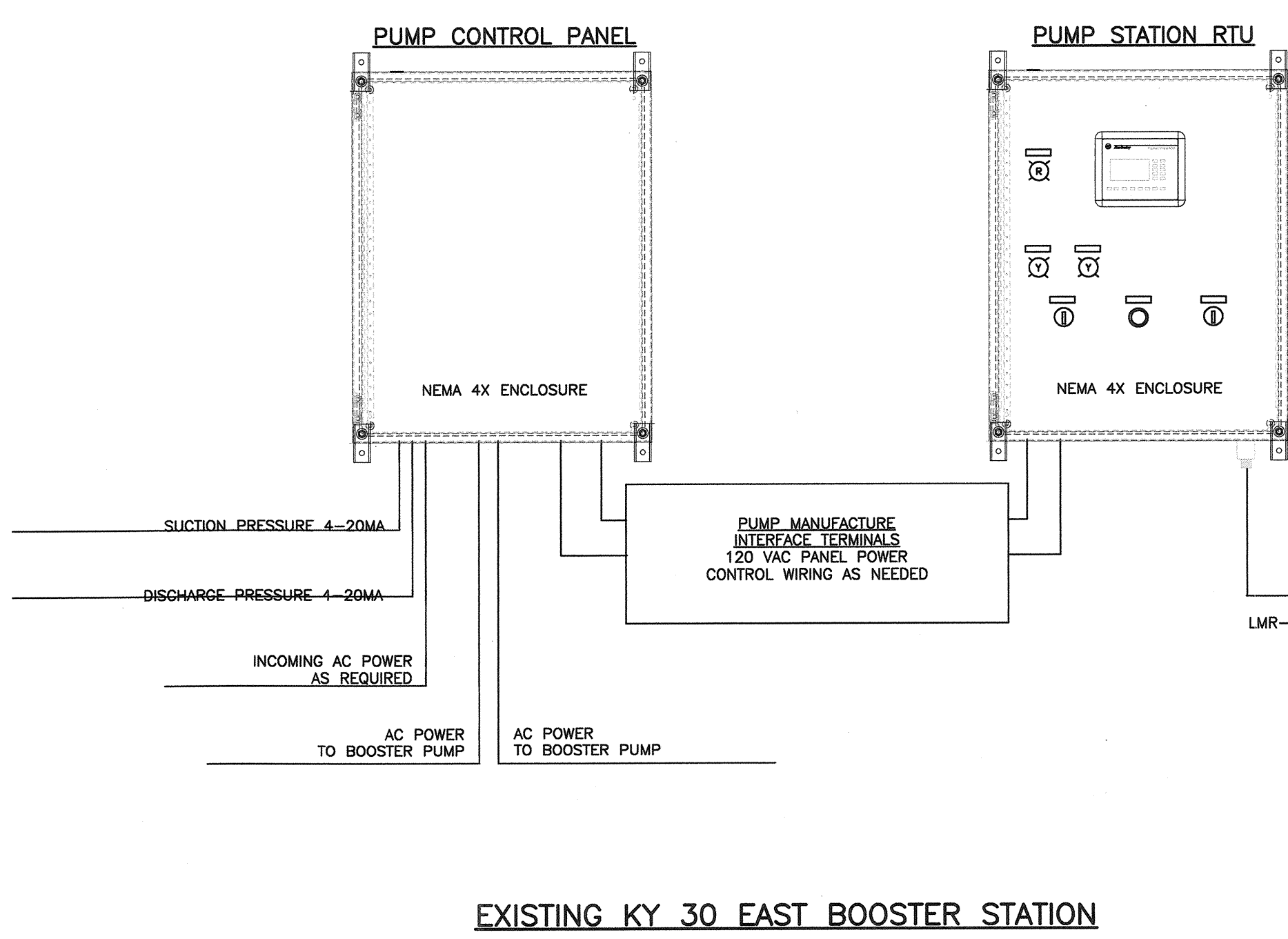
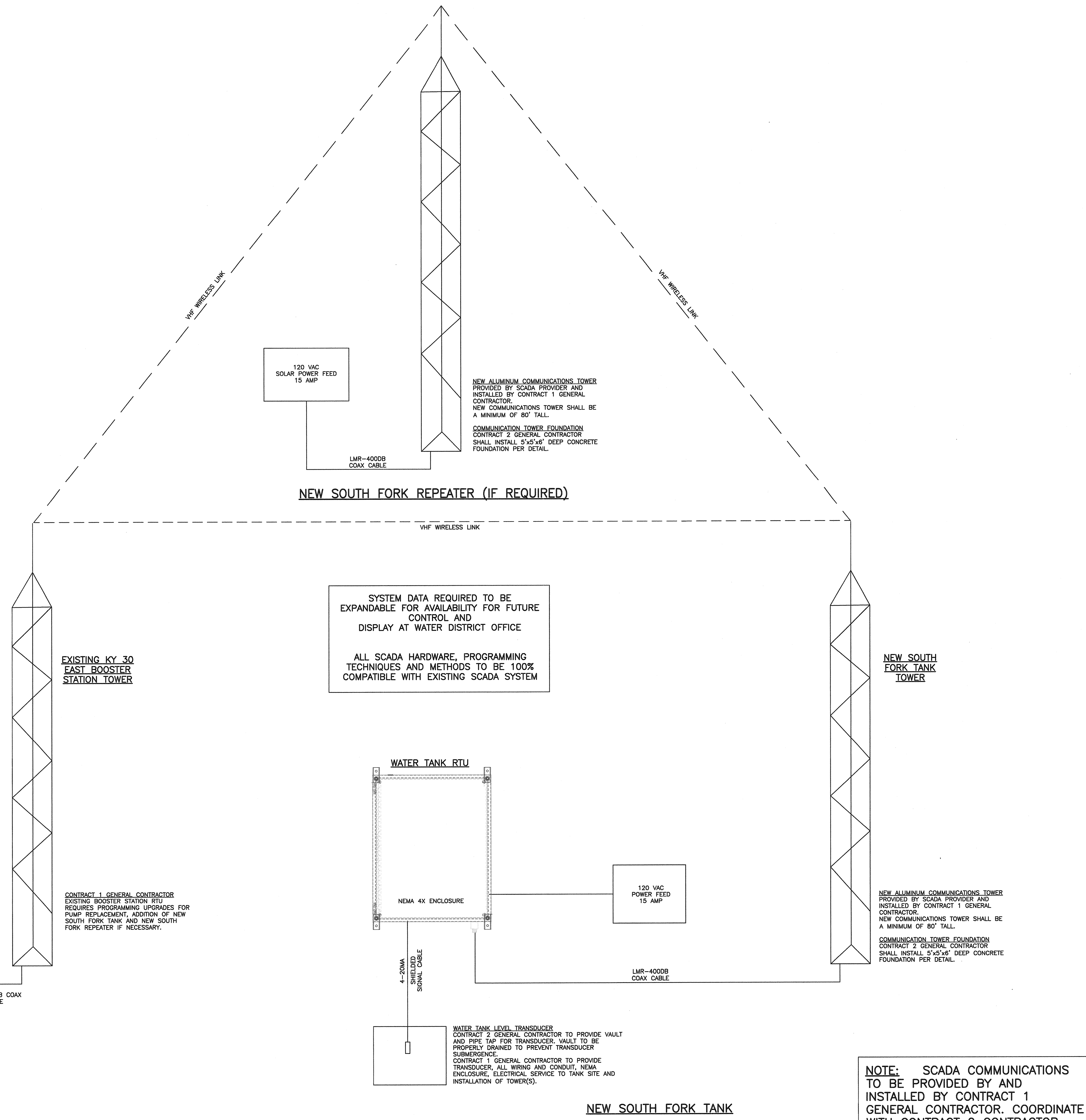
STATE OF KENTUCKY  
MATTHEW R. CURTIS  
25716  
LICENSED PROFESSIONAL ENGINEER

nesbitt engineering, inc.  
providing proven solutions since 1976  
BREATHITT COUNTY WATER DISTRICT  
CONTRACT 2 - KY1098 SOUTHFORK TANK  
DESIGNED BY: JCW  
DATE: 11-04-11  
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SHEET FILE NAME: 03 design\Contract 2\DESIGN TANK DETAILS.DWG  
SCALE: NOT TO SCALE

SHEET NO. C-5



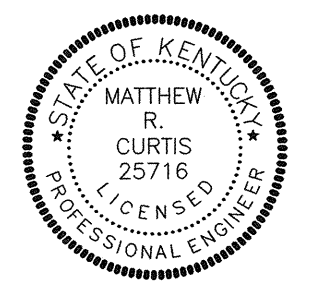
**SHEET NOTES:**  
1. INFORMATION FOR REFERENCE ONLY. ALL LOCAL, STATE AND FEDERAL CODES SHALL SUPERCEDE NOTED DETAILS.  
2. REFER TO TOWER MANUFACTURE INSTALLATION DETAILS FOR INSTALLATION AND ERECTING REQUIREMENTS, INCLUDING BASE SIZE AND EXCAVATION REQUIREMENTS.



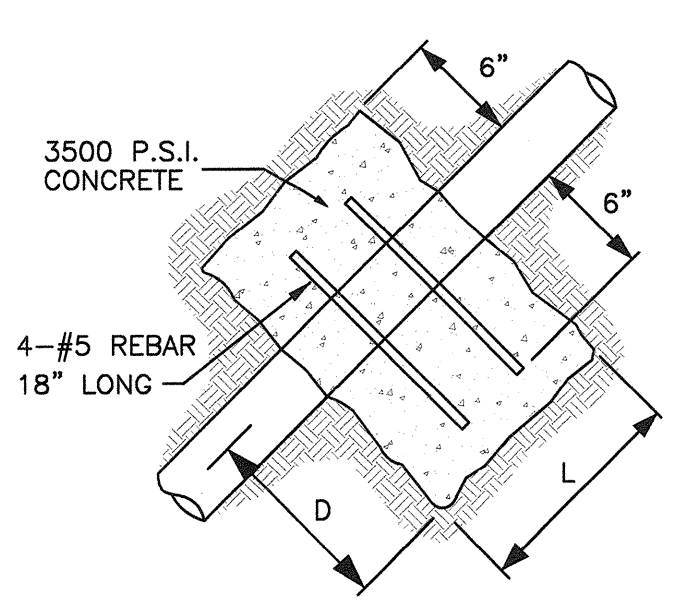
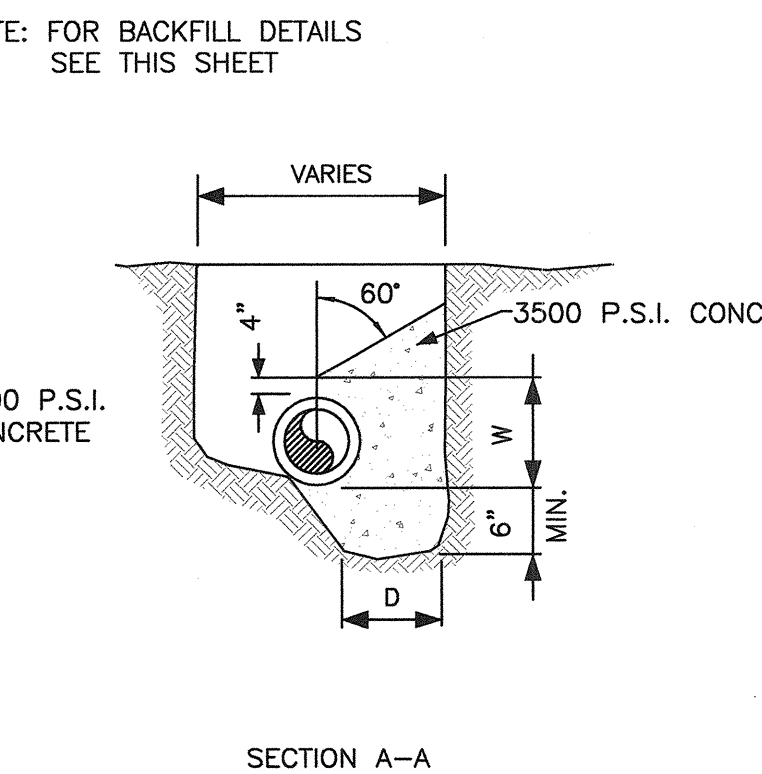
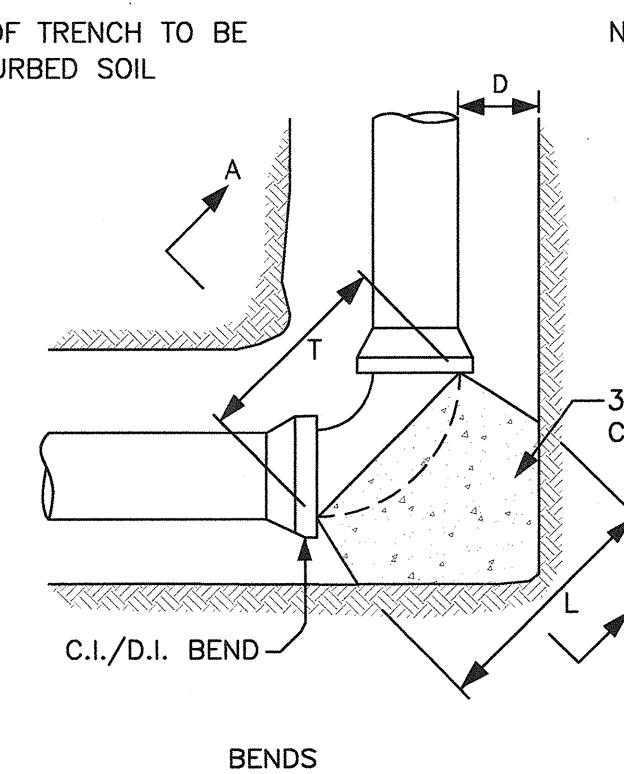
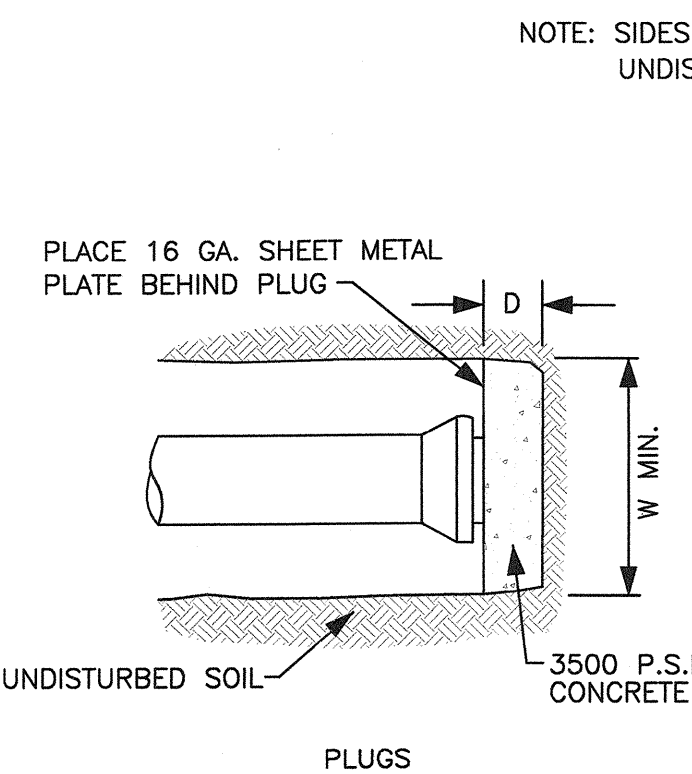
**NOTE:** SCADA COMMUNICATIONS TO BE PROVIDED BY AND INSTALLED BY CONTRACT 1 GENERAL CONTRACTOR. COORDINATE WITH CONTRACT 2 CONTRACTOR FOR LOCATION AND INSTALLATION.

REVISIONS:

BREATHITT COUNTY WATER DISTRICT  
1137 MAIN STREET  
JACKSON, KENTUCKY 41339  
CONTRACT 2 - KY1098 SOUTH FORK TANK  
SCADA DIAGRAM



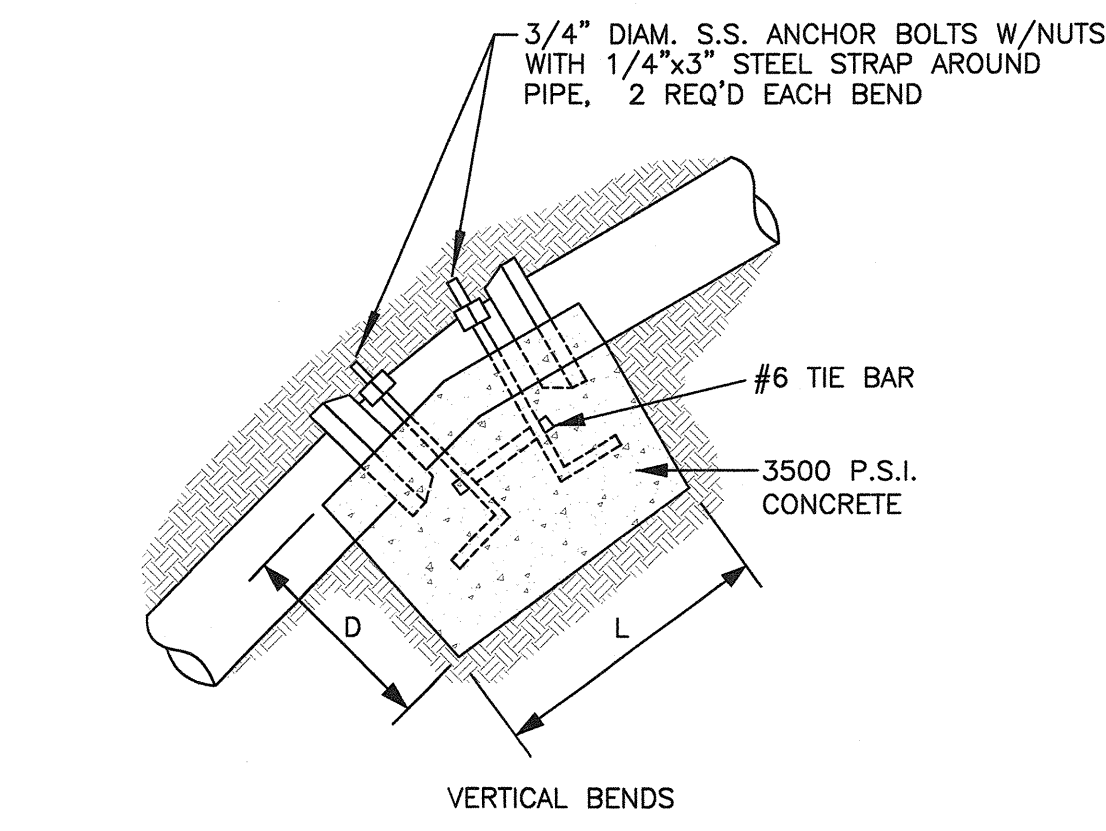
nesbitt engineering, inc.  
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JOB NO.: 998.27  
SCALE: NOT TO SCALE  
DRAWN BY: JCS  
DATE: 11-04-11  
DISK/FILE NAME: \03 design\Contract 2\DESIGN\SCADA DIAGRAM.dwg



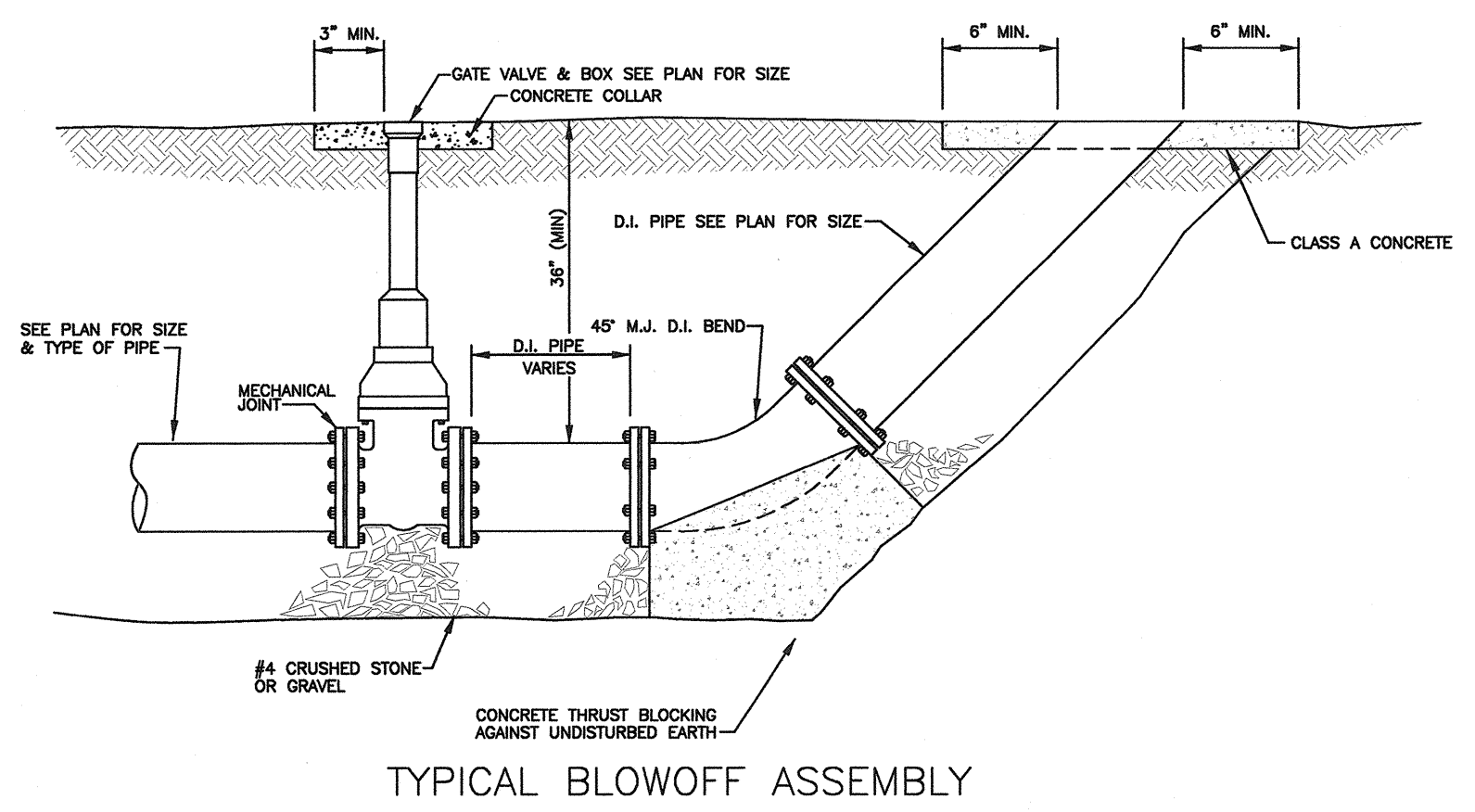
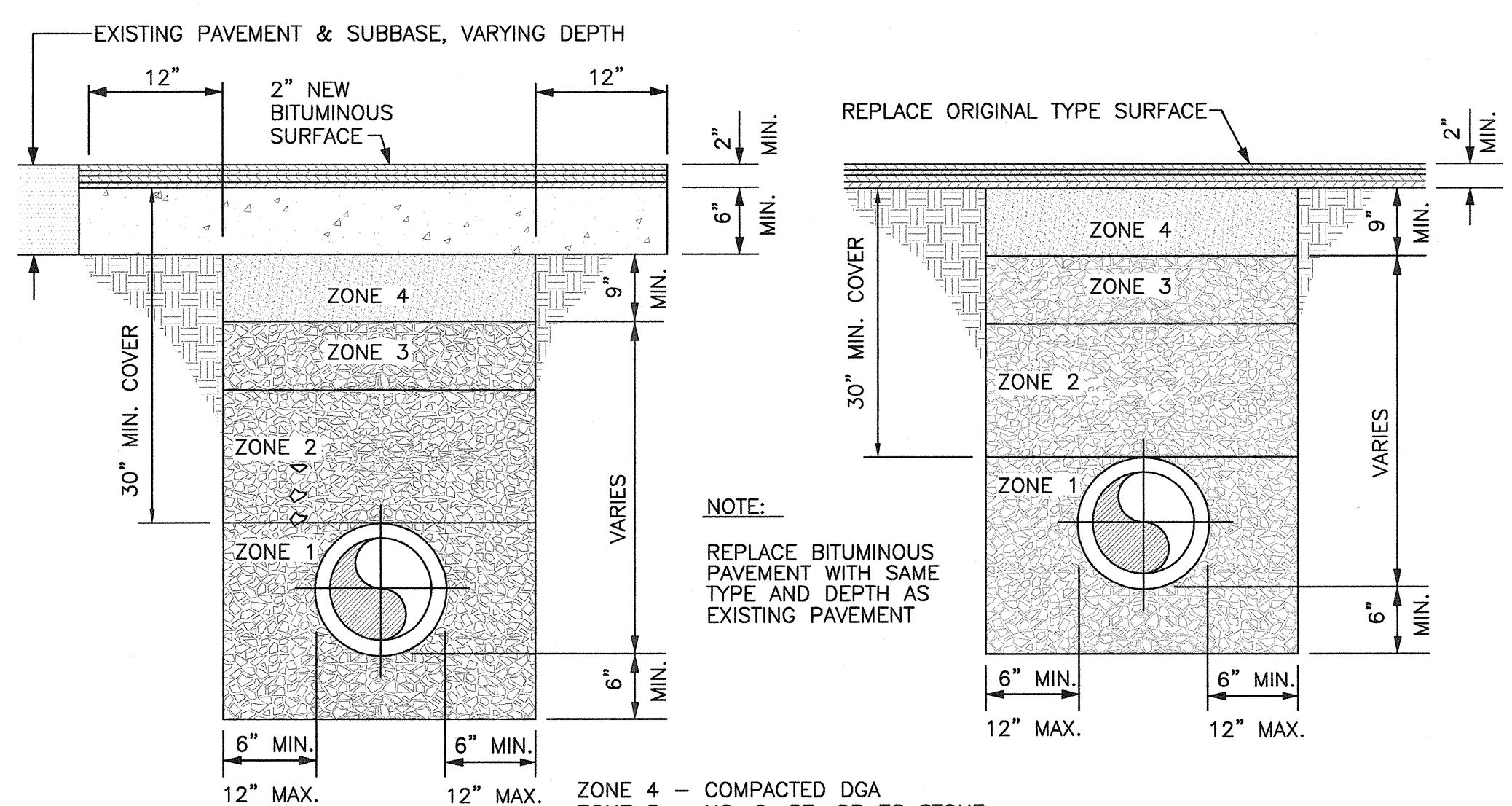
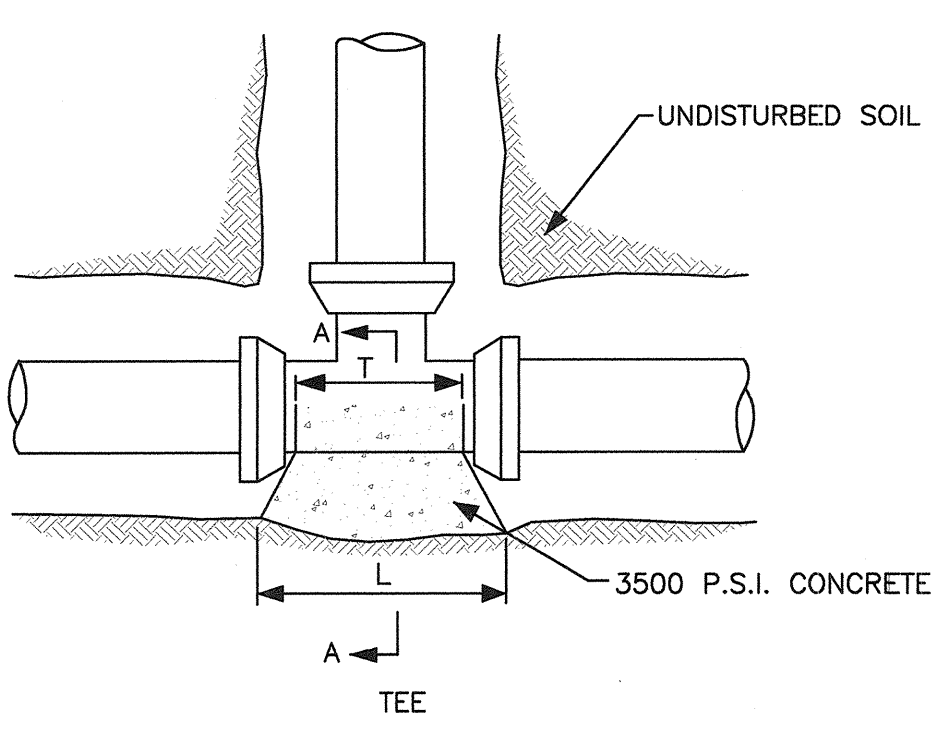
**STRAIGHT PIPE**  
NOTE: DEPTH (D) MAY NOT BE SMALLER THAN SPECIFIED TO ALLOW FOR WORKING SPACE, PIERS SHALL BE PLACED AGAINST UNDISTURBED SOIL, PLACE CONCRETE ANCHORS 25'-0" c/c.

DIMENSIONS FOR THRUST AND ANCHOR BLOCKS									
PIPE SIZE	PLUGS								
	3"	4"	6"	8"	10"	12"	14"	18"	24"
D	6"	6"	6"	6"	6"	6"	6"	6"	6"
L&W	16"	18"	20"	22"	24"	26"	28"	32"	38"
EIGHT BEND (45°), 1/16 BEND (22-1/2°)									
D	6"	6"	6"	6"	6"	6"	6"	6"	6"
L	14"	16"	18"	20"	22"	24"	26"	30"	36"
T	12"	14"	16"	18"	20"	22"	24"	28"	34"
W	6"	8"	12"	14"	16"	18"	20"	24"	30"
QUARTER BEND (90°)									
D	6"	6"	8"	10"	10"	12"	12"	14"	14"
L	18"	21"	24"	27"	30"	33"	36"	38"	44"
T	12"	14"	16"	18"	20"	22"	24"	28"	34"
W	6"	8"	12"	16"	18"	20"	22"	26"	32"
VERTICAL BEND & STRAIGHT PIPE									
D	12"	12"	15"	15"	18"	18"	20"	24"	30"
L	18"	18"	24"	24"	30"	30"	32"	36"	42"
T	12"	14"	16"	18"	20"	22"	24"	28"	34"

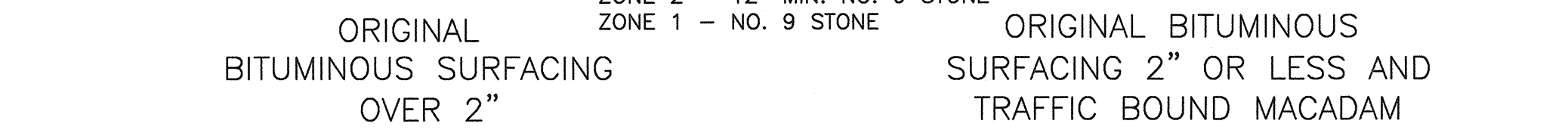
NOTE: SEE PLAN SHEETS FOR SIZE AND LOCATION OF PIPE



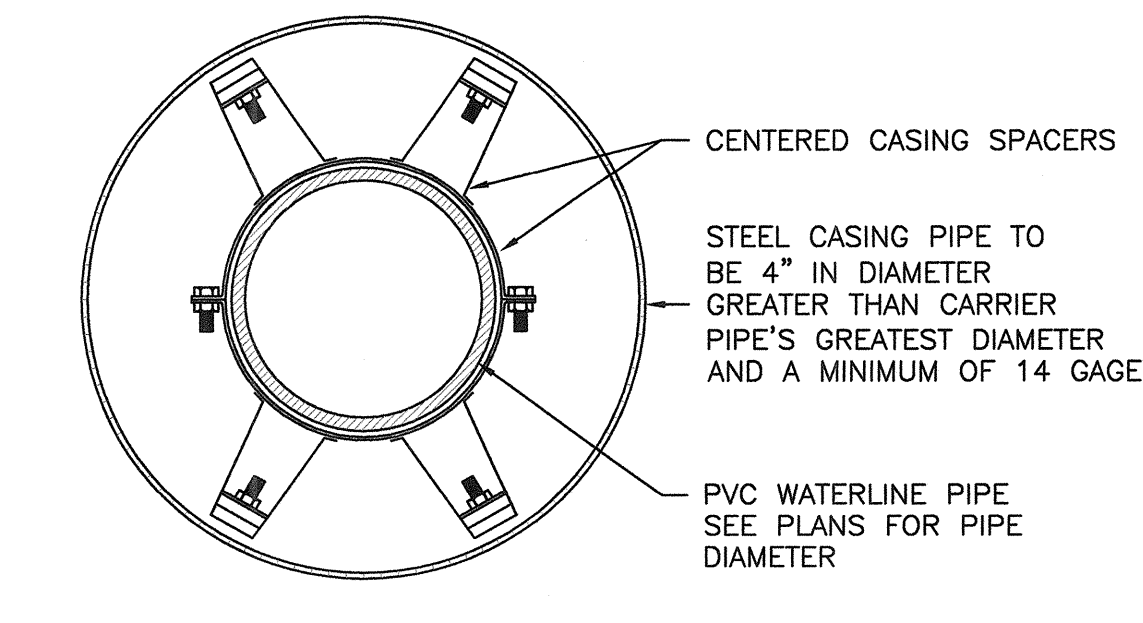
CONCRETE ANCHOR BLOCKS



TYPICAL BLOWOFF ASSEMBLY



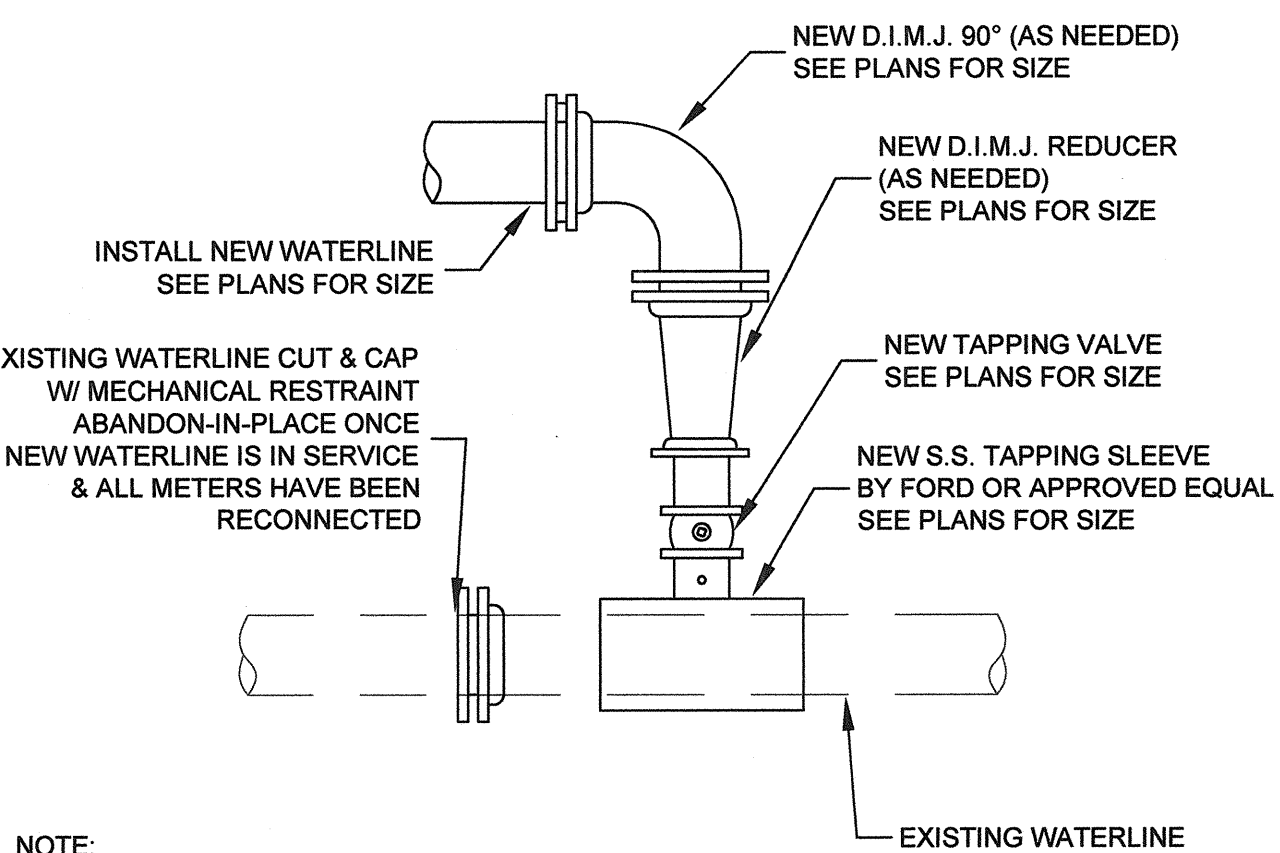
NOTE: RAILROAD BORE CASING PIPE SHALL BE A 16" DIAMETER, API 5L - GRADE B STEEL PIPE WITH A MINIMUM WALL THICKNESS OF 0.25" AS SHOWN ON THE PLANS.



NOTE: CARRIER PIPE SHALL BE INSTALLED WITHIN CASING PIPE USING MODEL CI POLYETHYLENE CASING SPACERS AS MANUFACTURED BY ADVANCE PRODUCT & SYSTEMS, INC. OR ENGINEER APPROVED EQUAL. SIZE AND SPACING PER MANUFACTURERS RECOMMENDATIONS.

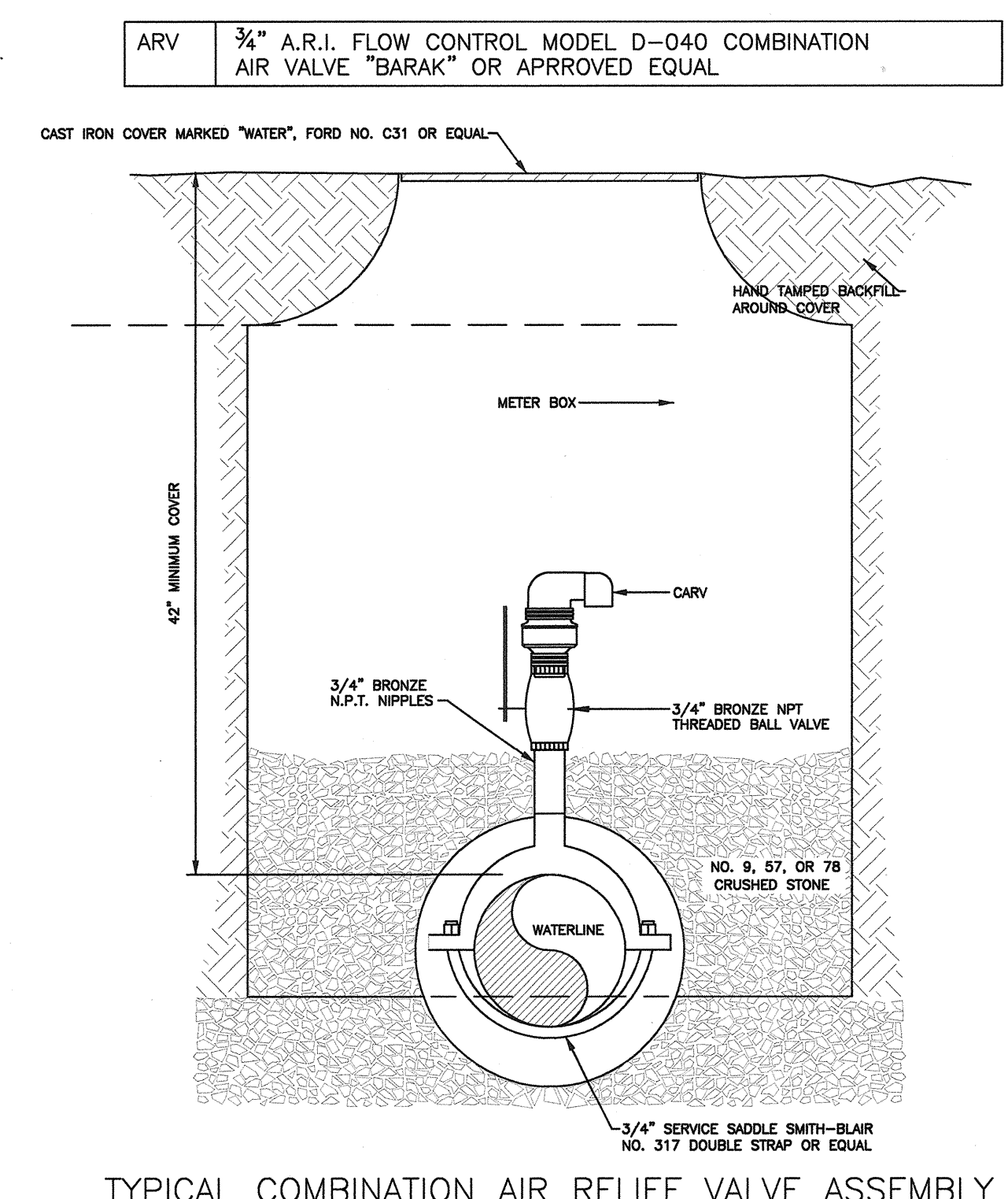
END SEALS SHALL BE MODEL AC PULL-ON OR AW WRAP-AROUND END SEALS AS MANUFACTURED BY ADVANCE PRODUCT & SYSTEMS, INC. OR ENGINEER APPROVED EQUAL.

CASING SPACER DETAIL

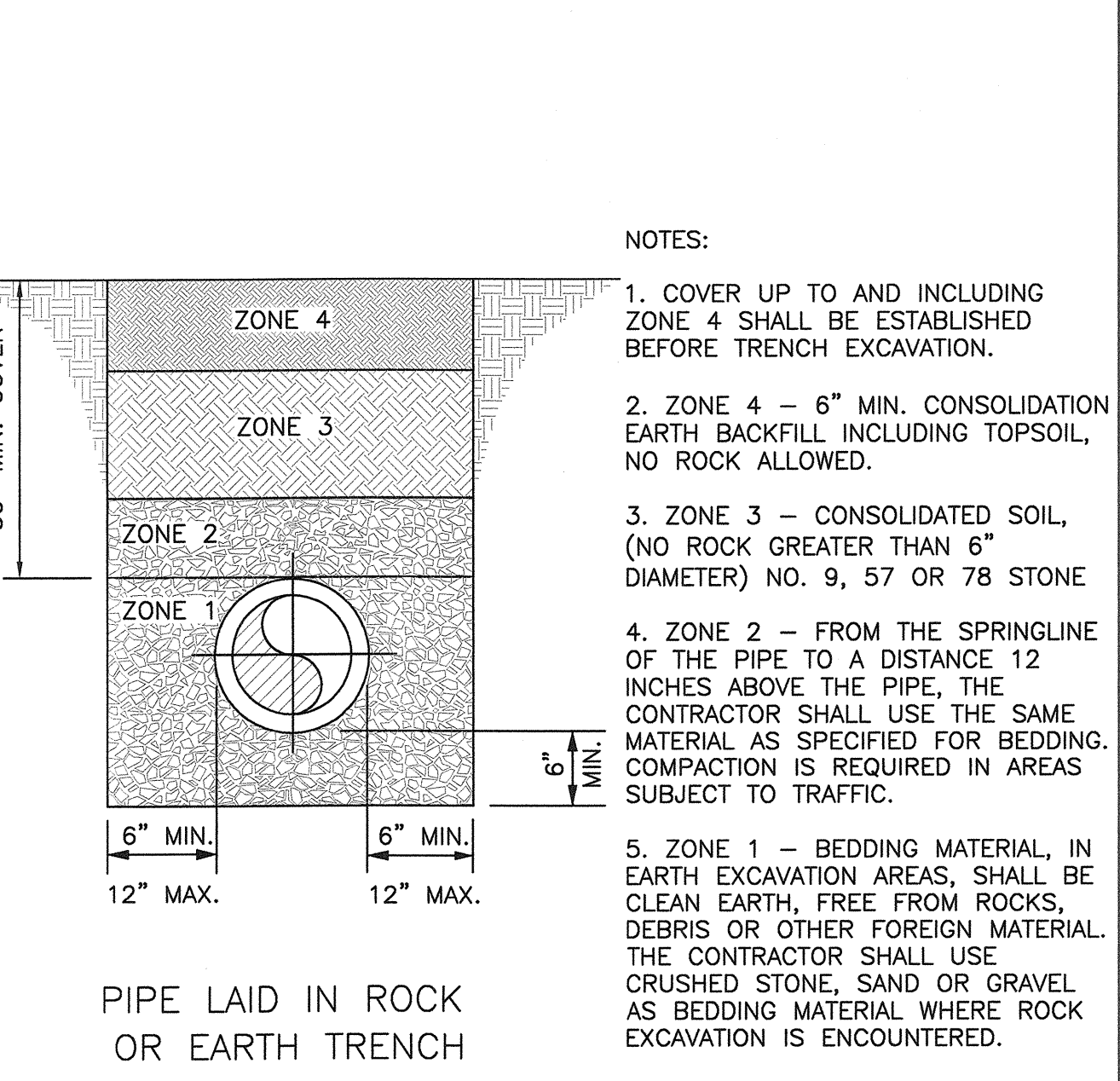


NOTE: USE ALL THREAD RODS TO TIE ALL FITTINGS TOGETHER (TYP.) CONCRETE ANCHORS REQUIRED FOR ALL FITTINGS & BENDS (TYP.)

TIE INTO EXISTING WATERLINE CONNECTION DETAIL - TYPE 1

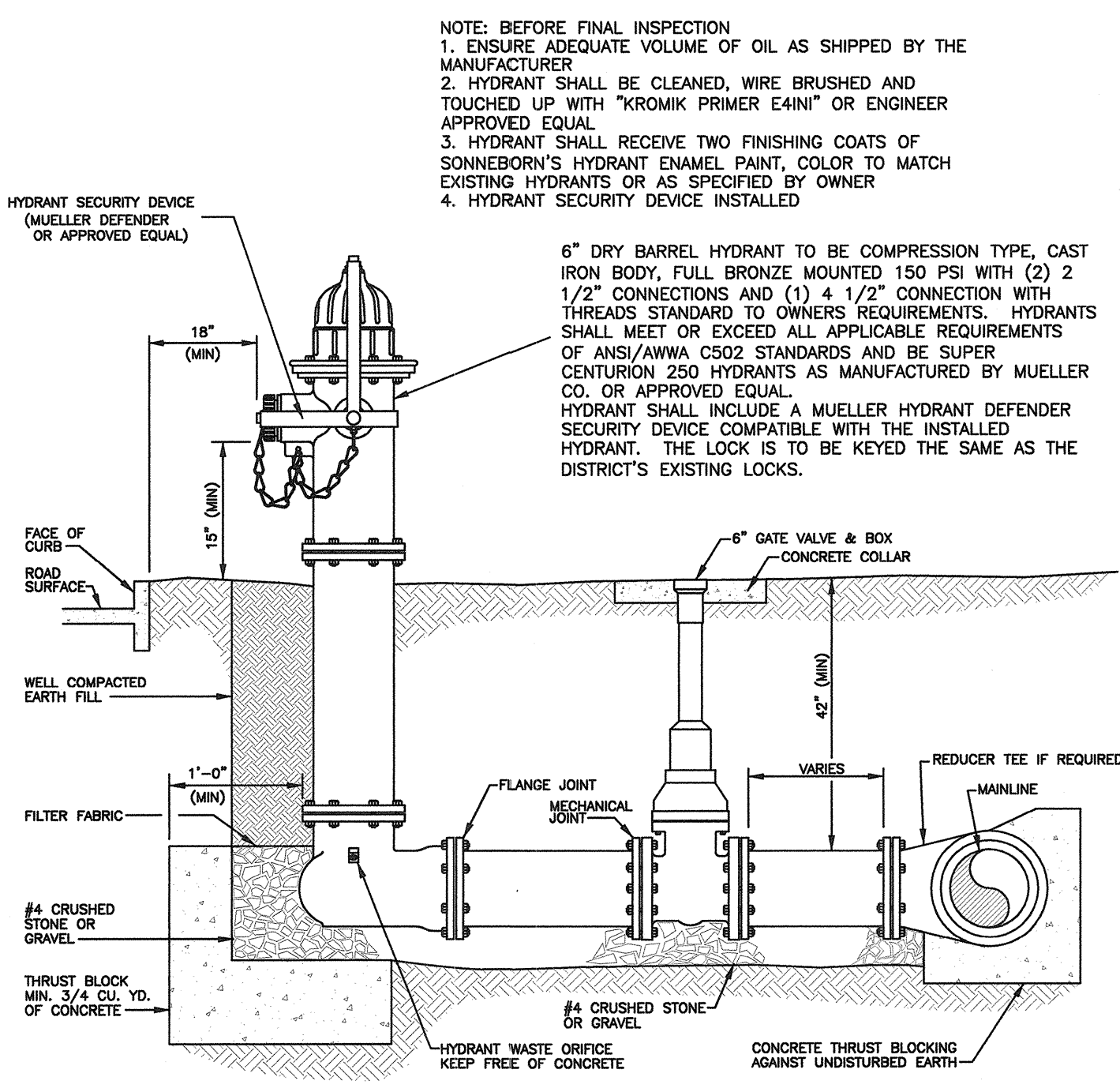


TYPICAL COMBINATION AIR RELIEF VALVE ASSEMBLY

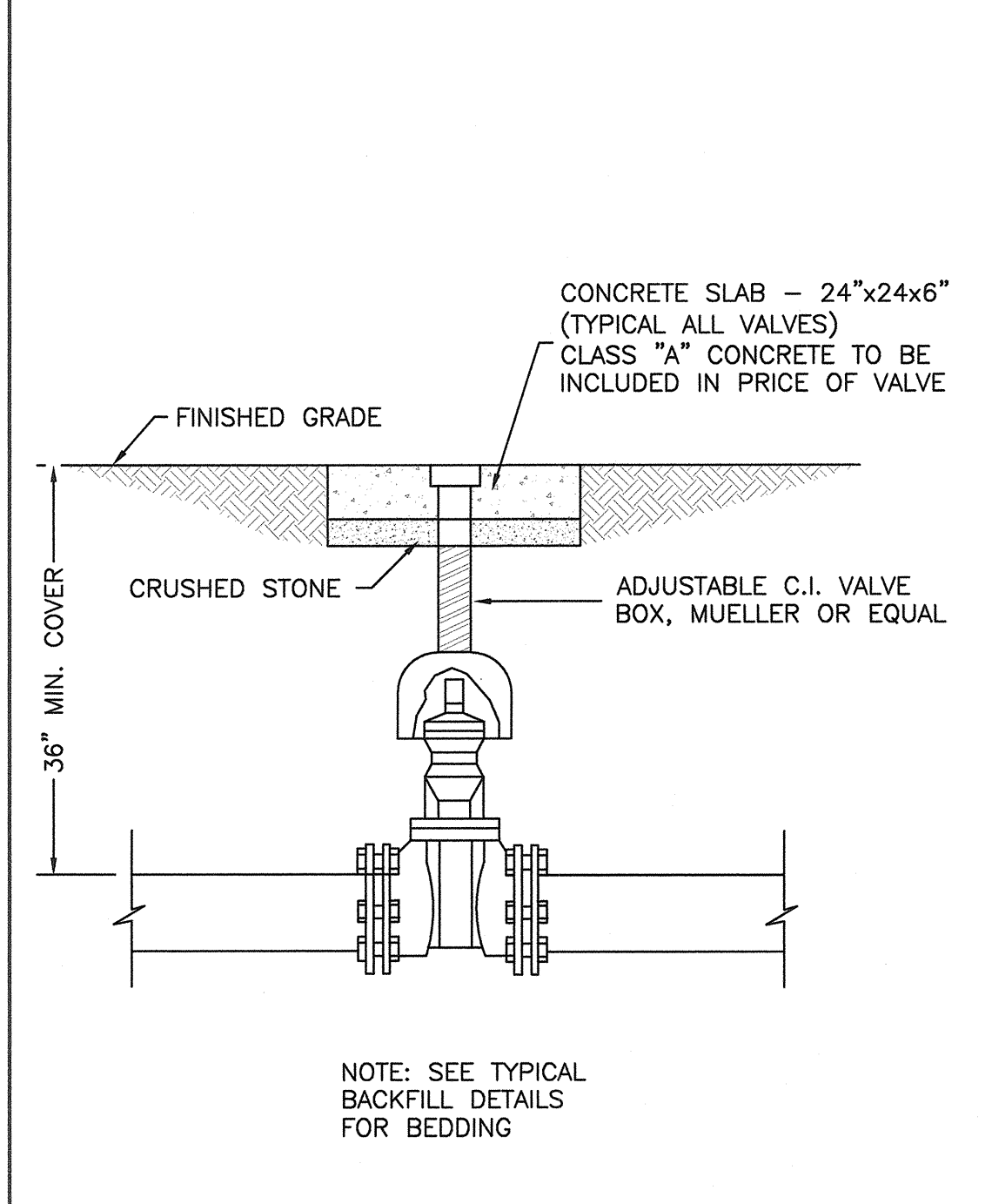


- NOTES:
- COVER UP TO AND INCLUDING ZONE 4 SHALL BE ESTABLISHED BEFORE TRENCH EXCAVATION.
  - ZONE 4 - 6" MIN. CONSOLIDATION EARTH BACKFILL INCLUDING TOPSOIL, NO ROCK ALLOWED.
  - ZONE 3 - CONSOLIDATED SOIL, (NO ROCK GREATER THAN 6" DIAMETER) NO. 9, 57 OR 78 STONE
  - ZONE 2 - FROM THE SPRINGLINE OF THE PIPE TO A DISTANCE 12 INCHES ABOVE THE PIPE, THE CONTRACTOR SHALL USE THE SAME MATERIAL AS SPECIFIED FOR BEDDING. COMPACTION IS REQUIRED IN AREAS SUBJECT TO TRAFFIC.
  - ZONE 1 - BEDDING MATERIAL, IN EARTH EXCAVATION AREAS, SHALL BE CLEAN EARTH, FREE FROM ROCKS, DEBRIS OR OTHER FOREIGN MATERIAL. THE CONTRACTOR SHALL USE CRUSHED STONE, SAND OR GRAVEL AS BEDDING MATERIAL WHERE ROCK EXCAVATION IS ENCOUNTERED.

PIPE LAID IN ROCK OR EARTH TRENCH



ELEVATION HYDRANT ASSEMBLY

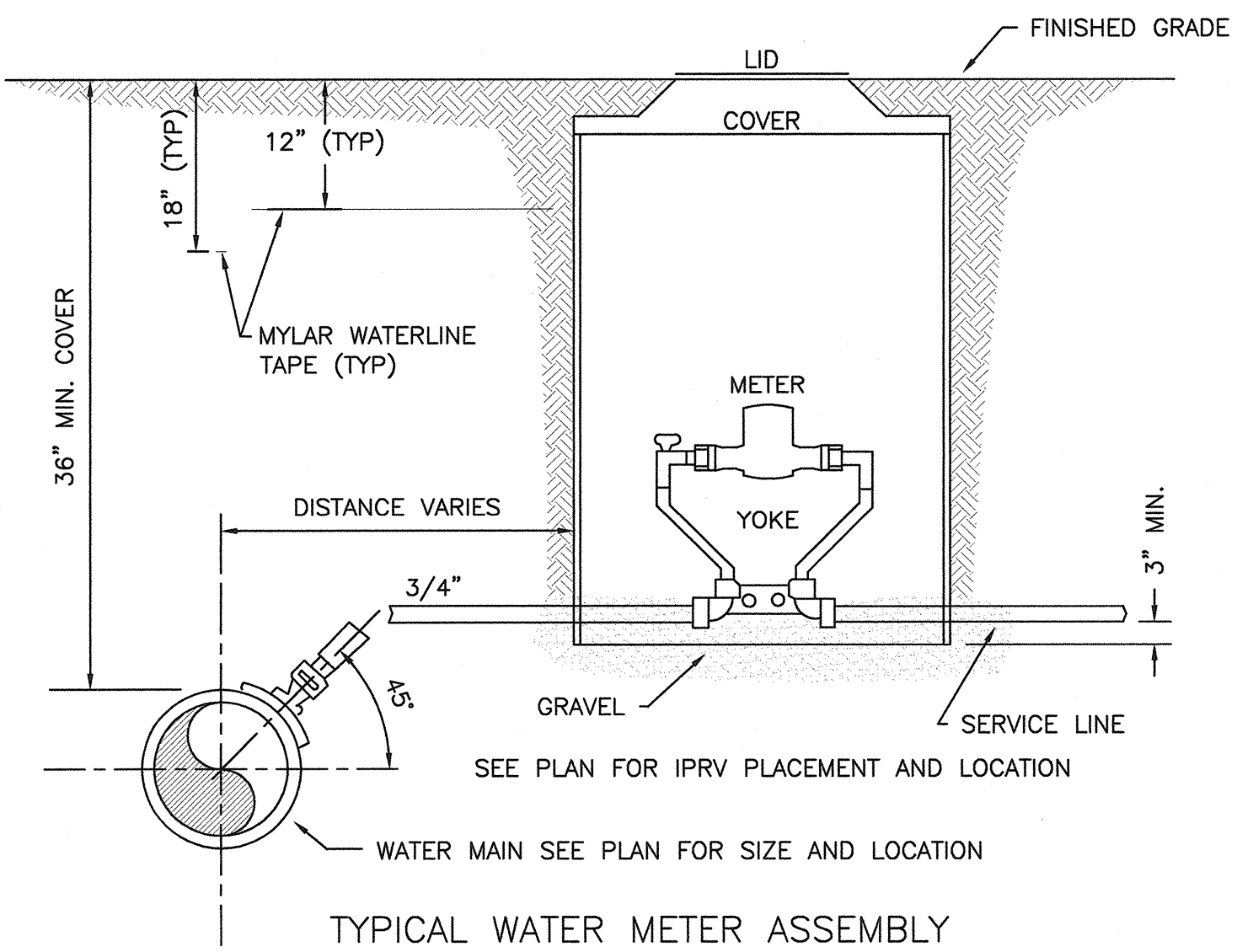


TYPICAL GATE VALVE ASSEMBLY

**METER SETTING**

- YOKE-5/8"x3/4" MUELLER H-1400 WITH METER STOP OR APPROVED EQUAL
- METER BOX-20"x36" DEEP, MID-STATE PLASTICS, INC. ROUND METER BOX, B SERIES OR APPROVED EQUAL
- COVER-20"x36" FORD TYPE C MODEL C3H W/1 1/2" LOCKING LID OR APPROVED EQUAL
- METER-SEE SPECIFICATIONS
- INDIVIDUAL PRESSURE REDUCING VALVE (IPRV) WATTS MODEL 25AUB(2"), WILKENS MODEL 600 (3/4"-1") BOTH W/S.S. STRAINER, ADJUSTABLE PRESSURE RANGE 25-75 P.S.I., OUTLET PRESSURE SET AT 50 P.S.I. OR APPROVED EQUAL

**TIE TO WATER MAIN**  
GROUND KEY CORPORATION STOP-MUELLER H-15000 (3/8"x3/4") OR APPROVED EQUAL  
SERVICE SADDLE-BRONZE DOUBLE STRAP MUELLER H-16000 OR APPROVED EQUAL



TYPICAL WATER METER ASSEMBLY

LAST PLOTTED:  
LAST SAVED:

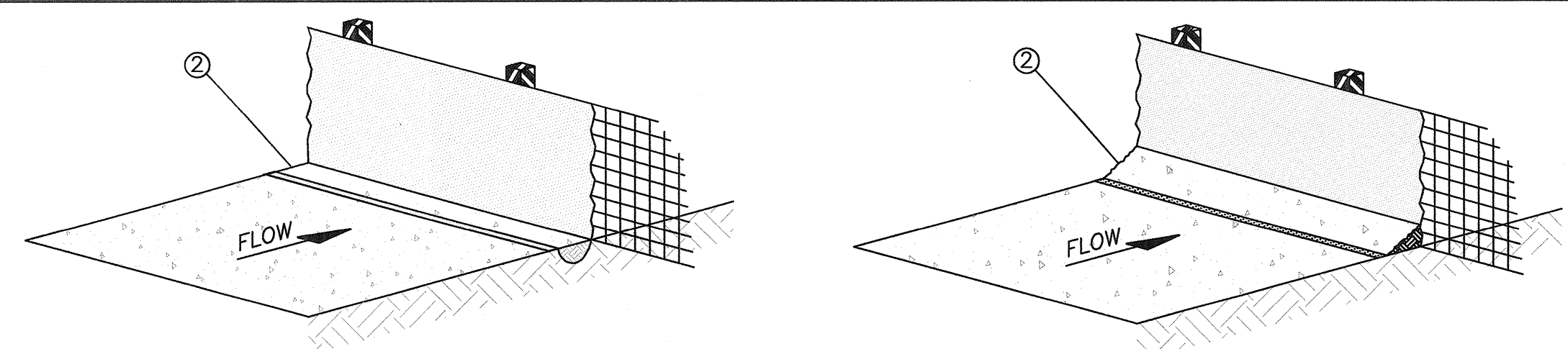
REVISIONS:

BREATHITT COUNTY WATER DISTRICT  
1137 MAIN STREET  
JACKSON, KENTUCKY 41339  
CONTRACT 2 - KY1098 SOUTHFORK TANK  
STANDARD DETAILS

STATE OF KENTUCKY  
MATTHEW R. CURTIS  
25716  
LICENSED PROFESSIONAL ENGINEER

nesbitt engineering, inc.  
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CONTRACT 2 - KY1098 SOUTHFORK TANK  
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DESIGN FILE NUMBER: US design/Contract 2/DESIGN/STANDARD DETAILS 1.dwg  
DATE: 11-04-11  
SHEET NO. C-7





ALTERNATE NO. 1

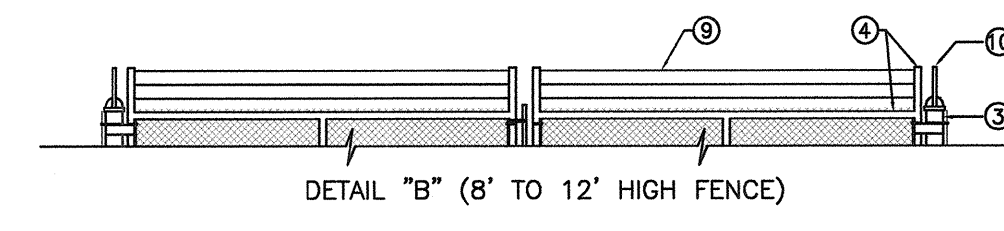
ALTERNATE NO. 2

**NOTES**

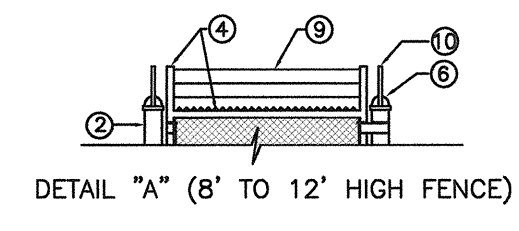
1. MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
2. THE BOTTOM 12 INCHES OF FABRIC SHALL BE BURIED IN A 6 INCH TRENCH CUT INTO THE GROUND OR COVERED BY 6 INCHES OF FILL MATERIAL, TO PREVENT SEDIMENT ESCAPING UNDER FENCE. ALL EARTHWORK SHALL BE ON THE UPSTREAM SIDE OF FENCE.

**SILT CHECK FENCE SEDIMENTATION CONTROL**

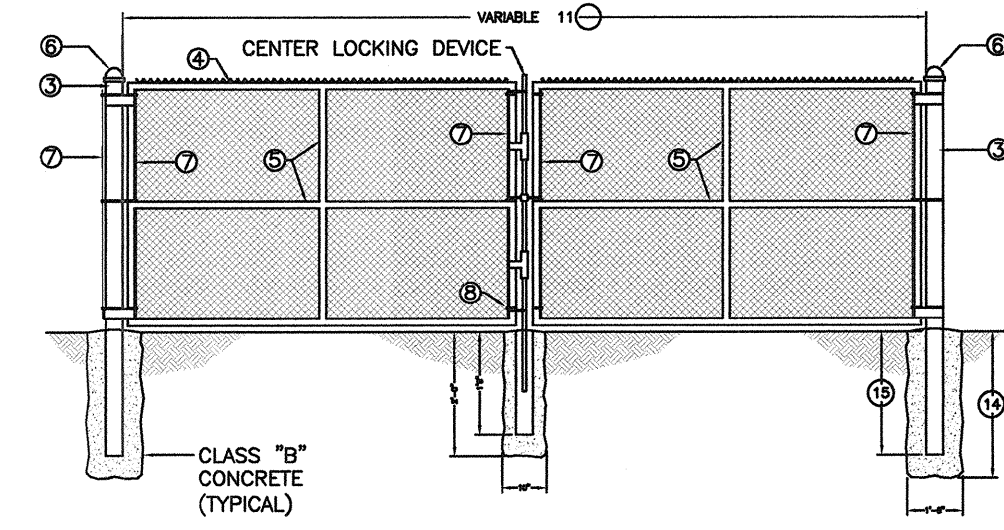
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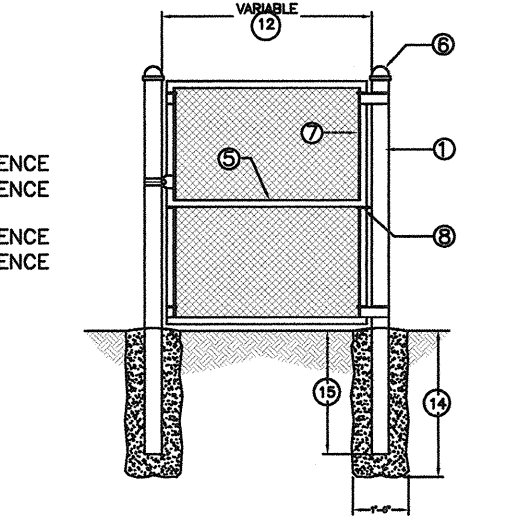
DETAIL "B" (8' TO 12' HIGH FENCE)



DETAIL "A" (8' TO 12' HIGH FENCE)



VEHICULAR GATE (4' AND 6' HIGH FENCE)



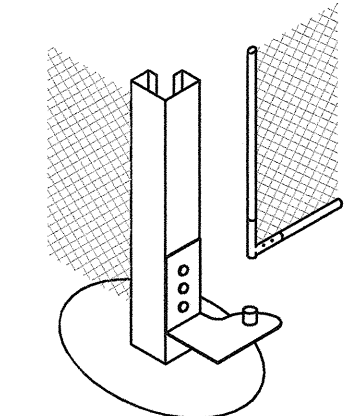
PEDESTRIAN GATE (4' AND 6' HIGH FENCE)

**LEGEND - (ALTERNATIVES)**

TUBULAR	ROLL FORMED
1 END POST 2 1/2" OD @ 3.65#/LF	3.5" x 3.5" @ 5.10#/LF
2 END POST 3" OD @ 5.79#/LF	3.5" x 3.5" @ 5.10#/LF
3 GATE POST 4" OD @ 9.19#/LF	NO ALTERNATIVE
4 GATE FRAME 2" OD @ 2.72#/LF	NO ALTERNATIVE
5 1.5" DIA. @ 2.27#/LF	NO ALTERNATIVE
6 APPROVED CAPS	NOT REQUIRED
7 FLAT TENSION BAR	NOT REQUIRED
8 BRACE BAND AND TENSION BAND	NOT REQUIRED
9 BARBED WIRE	BARBED WIRE
10 BARBED WIRE ARMS	BARBED WIRE ARMS

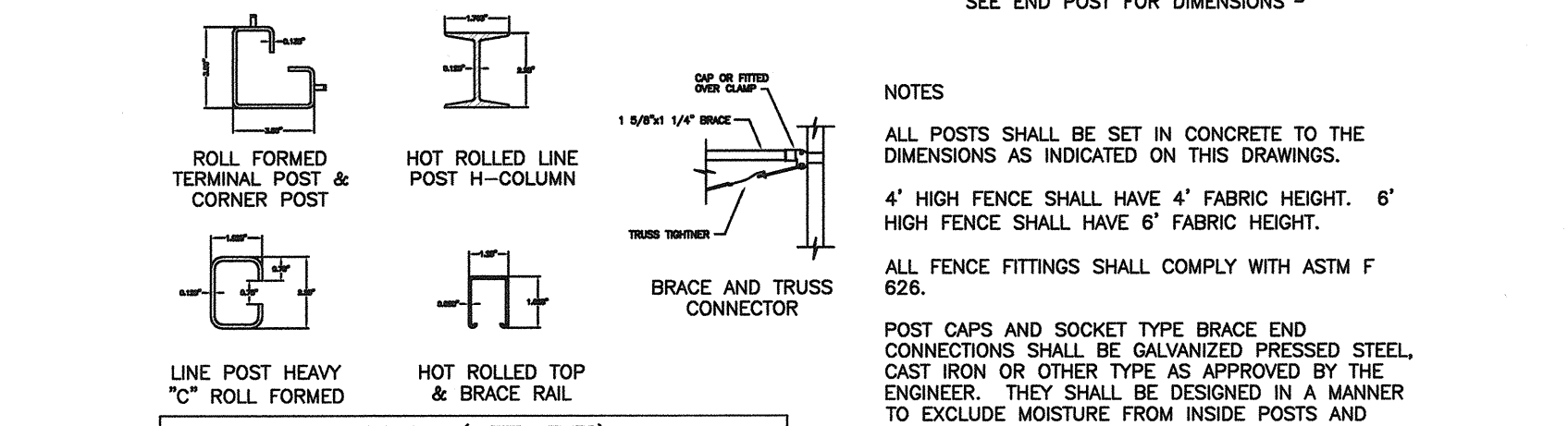
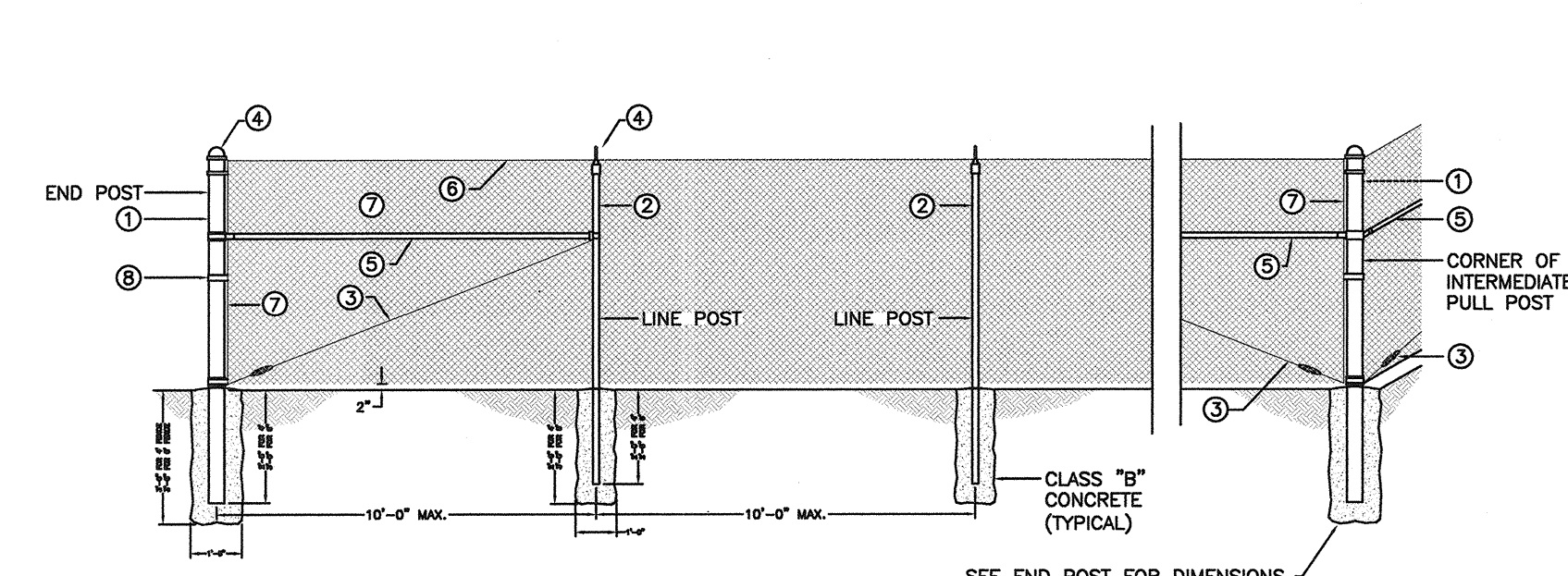
**NOTES**

ALL POSTS SHALL BE SET IN CONCRETE TO THE DIMENSIONS AS INDICATED ON THIS DRAWINGS.  
VEHICULAR AND PEDESTRIAN GATES SHALL HAVE HEAVY PRESSED STEEL CORNERS SECURELY RIVETED OR SHALL BE MACHINE NOTCHED, AND ELECTRICALLY WELDED SO AS TO BE RIGID AND WATER TIGHT; AND EQUIPPED WITH PADLOCKING DEVICE AND GROUND STOP.  
ALL WELDED JOINTS SHALL BE CLEANED AND PAINTED WITH TWO (2) COATS OF ALUMINUM PAINT.  
4' HIGH GATES SHALL HAVE 4' FABRIC HEIGHT. 6' HIGH GATES SHALL HAVE 6' FABRIC HEIGHT.  
8' HIGH GATES SHALL HAVE 8' FABRIC HEIGHT. 9' HIGH GATES SHALL HAVE 9' FABRIC HEIGHT.  
10' HIGH GATES SHALL HAVE 10' FABRIC HEIGHT. 11' HIGH GATES SHALL HAVE 11' FABRIC HEIGHT.  
12' HIGH GATES SHALL HAVE 12' FABRIC HEIGHT.  
BARBED WIRE IS REQUIRED ON 8' TO 12' HIGH GATES. SEE DETAIL "A" AND "B" FOR INSTALLATION.  
THE CONTRACTOR IS NOT TO ORDER GATES UNTIL THEIR NECESSITY AND LOCATION HAVE BEEN CERTIFIED BY THE ENGINEER.  
O.D. DEPICTED FOR TUBULAR POSTS IS NOMINAL - ASTM F 1083 SHALL GOVERN.  
ALL FENCE FITTINGS SHALL COMPLY WITH ASTM F 626.  
1 6' TO 13' WIDTH FOR SINGLE GATE OR 12' TO 26' WIDTH FOR DOUBLE GATE.  
2 4' TO 6' WIDTH.  
THE CONTRACT UNIT PRICE FOR CHAIN LINK GATES SHALL BE:  
1 FEET WIDE SINGLE VEHICULAR CHAIN LINK GATE 13 HIGH.  
2 FEET WIDE DOUBLE VEHICULAR CHAIN LINK GATE 13 HIGH.  
3 FEET WIDE PEDESTRIAN CHAIN LINK GATE 13 HIGH.  
4 AS SHOWN ON PLANS.



ROLL FORMED HINGE DETAIL

**CHAIN LINK GATE DETAIL**



**LEGEND - (ALTERNATIVES)**

TUBULAR	ROLL FORMED
1 2 1/2" OD @ 3.65#/LF	3.5" x 3.5" @ 5.10#/LF
2 2" OD @ 2.72#/LF	2.25" W-COL @ 3.29#/LF
3 3/8" DIA. TRUSS ROD AND TIGHTENER	3/8" DIA. TRUSS ROD AND TIGHTENER
4 APPROVED CAPS	NOT REQUIRED
5 1.5" DIA. @ 2.27#/LF	1.25" x 1.625" @ 1.40#/LF
6 1.5" DIA. @ 2.27#/LF	NOT REQUIRED
7 FLAT TENSION BAR	NOT REQUIRED
8 BRACE BAND AND TENSION BAND	NOT REQUIRED

**NOTES**

ALL POSTS SHALL BE SET IN CONCRETE TO THE DIMENSIONS AS INDICATED ON THIS DRAWINGS.  
4' HIGH FENCE SHALL HAVE 4' FABRIC HEIGHT. 6' HIGH FENCE SHALL HAVE 6' FABRIC HEIGHT.  
ALL FENCE FITTINGS SHALL COMPLY WITH ASTM F 626.  
POST CAPS AND SOCKET TYPE BRACE END CONNECTIONS SHALL BE GALVANIZED PRESSED STEEL, CAST IRON OR OTHER TYPE AS APPROVED BY THE ENGINEER. THEY SHALL BE DESIGNED IN A MANNER TO EXCLUDE MOISTURE FROM INSIDE POSTS AND RAILS.  
O.D. DEPICTED FOR TUBULAR POSTS IS NOMINAL - ASTM F 1083 SHALL GOVERN.  
STRUCTURAL SHAPES SHALL CONFORM TO STD. SPEC. B15.07.01 EXCEPT YIELD SHALL BE A MIN. 45,000 PSI.  
INDISCRIMINATE MIXING OF POSTS WILL NOT BE PERMITTED.  
TENSION WIRE COMPLYING WITH ASTM A 824 SHALL BE SUBSTITUTED FOR THE TOP RAIL WHEN THE FENCE IS TO BE INSTALLED IN THE PATH OF AN ERRANT VEHICLE.

PIPE DIA. OR EQUIV. DIA.	SHAPE	DIMENSIONS							CLASS A CONC.	REINF. STEEL
		C	E	F	L	W	T	C. Y.		
12"	⊙	1'-9"	2'-6"	2'-3"	3'-6"	4'-0"	2"	0.59	7	
15"	⊙	2'-0"	2'-9"	2'-9"	4'-0"	4'-9"	2 1/4"	0.68		
18"	⊙	2'-3"	3'-0"	2'-6"	3'-6"	4'-9"	2 1/2"	0.93	8	
21"	⊙	2'-0"	3'-6"	3'-0"	4'-0"	5'-6"	2 3/4"	0.89		
24"	⊙	2'-6"	3'-3"	4'-0"	5'-0"	6'-0"	1.14	1.14	9	
27"	⊙	2'-3"	3'-0"	3'-6"	4'-6"	6'-0"	1.07	1.35	8	
24"	⊙	2'-9"	3'-6"	4'-6"	5'-6"	6'-6"	3"	1.35	8	
24"	⊙	2'-5"	4'-0"	4'-0"	5'-0"	6'-9"	3 1/4"	1.30	9	
27"	⊙	3'-0"	3'-9"	5'-0"	6'-0"	7'-0"	1.57	1.57	10	
27"	⊙	2'-9"	4'-6"	4'-3"	5'-3"	7'-3"	3 1/2"	1.51	10	

**NOTES**

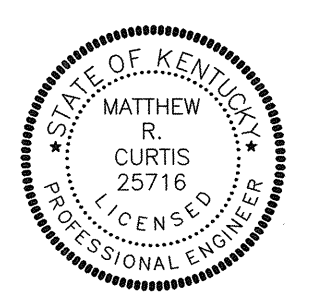
1. DIMENSIONS AND QUANTITIES ARE BASED ON CONCRETE PIPE AND WILL VARY INSIGNIFICANTLY FOR CORRUGATED METAL PIPE.
2. REINFORCING STEEL: MINIMUM GRADE 40, BARS EVENLY SPACED.
- 3 6 - NO. 4 x 1'-0" DOWEL BARS.
- 4 2 - NO. 4 x 16 DIMENSION MINUS 4".
- 5 SLOPES SHALL BE WAPPED TO FIT HEADWALL WHEN PIPE IS SKEWED AND/OR NORMAL. SLOPE VARIES FROM 2:1.
6. VOLUME DISPLACED BY PIPE COMPUTED USING INSIDE DIAMETER OF PIPE.
7. WING ANGLES AND/OR DIMENSIONS MAY BE ALTERED DURING CONSTRUCTION TO ACCOMMODATE FLOW OF WATER.
8. APRON BETWEEN WINGS SHALL BE SLOPED IN DIRECTION OF FLOW EQUAL TO SLOPE OF PIPE. FRONT FACE OF HEADWALL SHALL REMAIN VERTICAL.
- 9 HEADWALLS ARE FOR CIRCULAR, ARCH, AND HORIZONTAL ELLIPTICAL 12" TO 27" EQUIVALENT PIPE SIZES. SEE CURRENT STD. DWG. RDI-016, FOR NON-CIRCULAR PIPE EQUIVALENT SIZES.

**KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD DRAWING RDH-020-03**

DATE: 12-1-83  
APPROVED: J2-1-83

TOE OF SLOPES:  
a. STEEPER THAN 2:1  
b. 2:1  
c. FLATTER THAN 2:1

BREATHITT COUNTY WATER DISTRICT  
1137 MAIN STREET  
JACKSON, KENTUCKY 41339  
CONTRACT 2 - KY1098 SOUTHFORK TANK  
STANDARD DETAILS



**nesbitt engineering, inc.**  
providing proven solutions since 1976

BREATHITT COUNTY WATER DISTRICT  
CONTRACT 2 - KY1098 SOUTHFORK TANK

DESIGNED BY: JCN  
DATE: 11-04-11

JOB NO.: 998.27  
SCALE: NOT TO SCALE

FILE NO.: 03 design/Contract 2/DESIGN STANDARD DETAILS 2.dwg

SHEET NO. C-8

**nesbitt engineering, inc.**

SERVING DEVELOPERS, INDUSTRY, BUSINESS AND GOVERNMENT BY PROVIDING PROVEN SOLUTIONS SINCE 1976

# BREATHITT COUNTY WATER DISTRICT

**KY 1098 SOUTH FORK WATERLINE  
CONTRACT 2 - WATER STORAGE TANK**

**FUNDED BY  
COMMUNITY DEVELOPMENT BLOCK GRANT  
KENTUCKY INFRASTRUCTURE AUTHORITY - STATE REVOLVING FUNDS  
COAL SEVERENCE FUNDS**

**BREATHITT COUNTY, KENTUCKY  
NOVEMBER, 2011**

**BREATHITT COUNTY JUDGE EXECUTIVE  
JASON RICHARDSON**

**WATER COMMISSIONERS**

**BOBBY THORPE JR - CHAIRMAN  
SAMMIE TURNER - VICE CHAIRMAN  
EVA FUGATE - SECRETARY  
KASH NOBLE - TREASURER  
EUGENE TURNER - MEMBER  
ESTILL McINTOSH - SUPERINTENDENT**

**BID SET - NOVEMBER 2011  
DOW APPROVAL - JANUARY 2011**

