

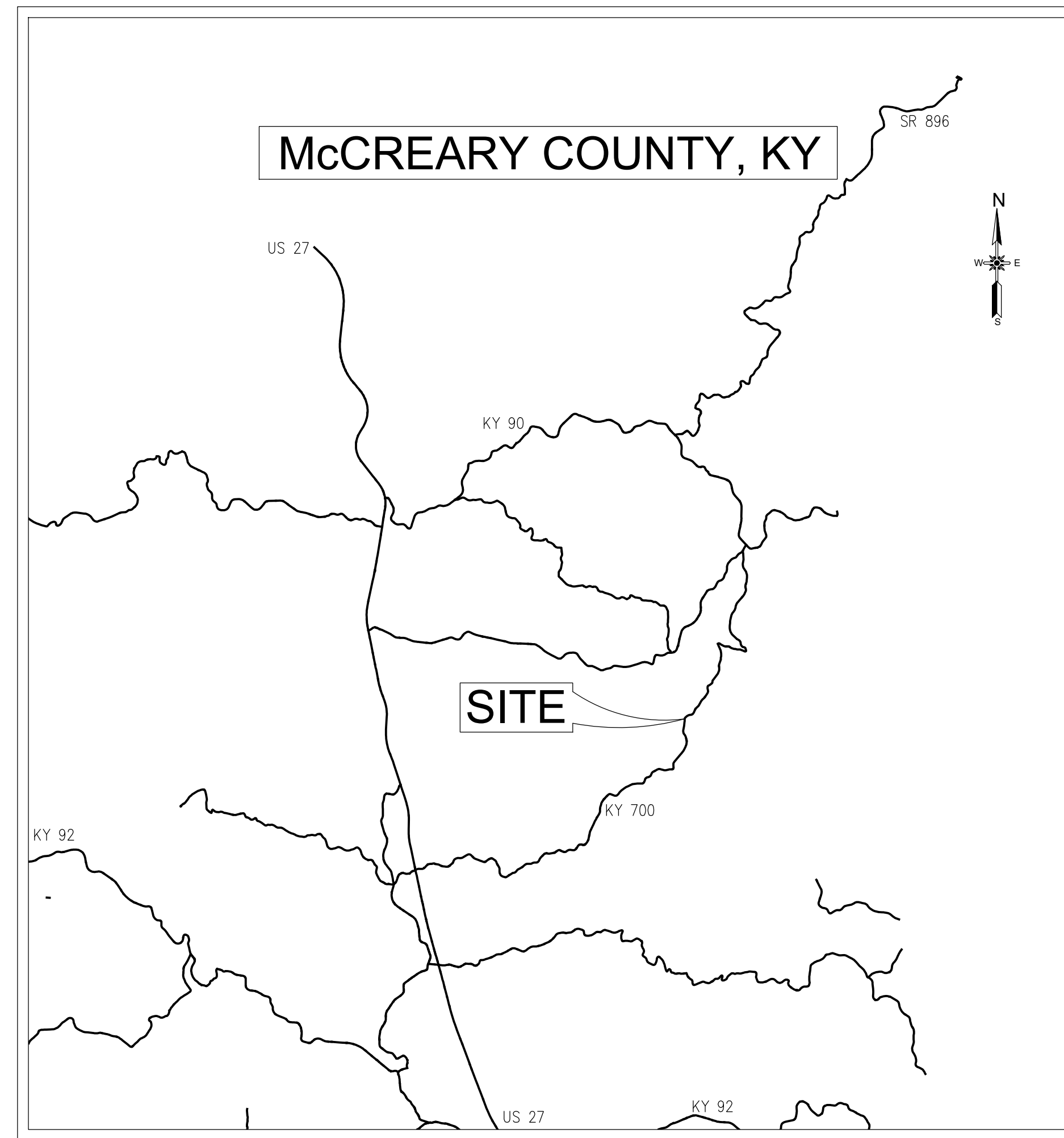
CONTRACT NO. 40

CATRON - NEEDLE ROAD WATERLINE EXTENSION

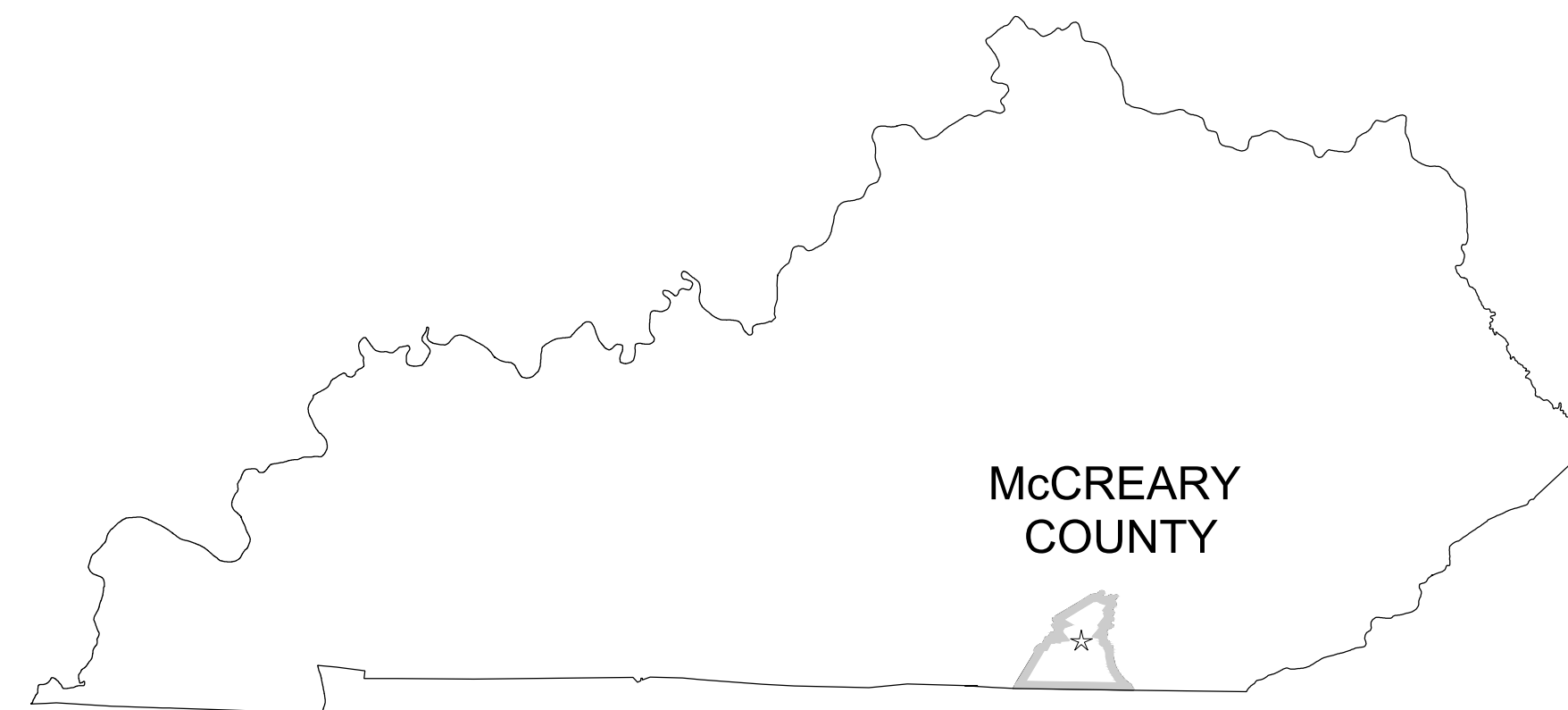
OCTOBER 2021

Prepared For:
McCREARY COUNTY WATER DISTRICT
 456 N. HWY 27
 WHITLEY CITY, KENTUCKY 42653

VICINITY



SCALE: 1"=10,000'

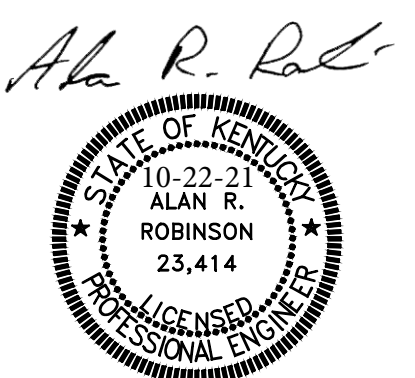


BOARD OF COMMISSIONERS

RANDY KIDD, CHAIRMAN
 MAYNARD NEW
 DOUG SEXTON
 COY TAYLOR
 RAYMOND TAYLOR
 STEPHEN WHITAKER, SUPERINTENDENT

INDEX OF DRAWINGS

1		COVER - LOCATION & VICINITY MAPS, INDEX OF DRAWINGS
2		GENERAL NOTES, ABBREVIATIONS, LEGEND AND UTILITIES
3-8		PLAN VIEW - LINE A
9		PRESSURE REDUCING VALVE VAULT DETAILS
10		STANDARD DETAILS



GENERAL NOTES

- MINIMUM COVER OVER WATER PIPE SHALL BE 30" UNLESS NOTED OTHERWISE.
- MINIMUM COVER OVER VALVE NUT TO BE 12". MAXIMUM COVER OVER VALVE NUTS TO BE 48". WHERE VALVES ARE BURIED DEEPER THAN 48", A 3/4" OR 1" SOLID STEEL VALVE OPERATING NUT EXTENSION SHALL BE REQUIRED AND SECURED TO VALVE OPERATING NUT.
- CONTRACTOR SHALL HAVE THE OWNER'S PERSONNEL ON SITE WHEN DIGGING OVER OR AROUND THE OWNER'S UTILITY LINES. CONTRACTOR SHALL SCHEDULE EXCAVATION WITH RESIDENT OBSERVER.
- EXACT SIZES, DEPTHS, MATERIALS AND LOCATIONS OF EXISTING UTILITIES ARE UNKNOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF THESE FAR ENOUGH IN ADVANCE OF THE PIPELINE OPERATION SO AS NOT TO CAUSE ANY UNNECESSARY DELAYS. RELOCATION OF EXISTING UTILITIES FOUND TO BE IN DIRECT CONFLICT AND UNAVOIDABLE PER THE ENGINEER'S DISCRETION WITH THIS CONTRACT SHALL BE ACCOMPLISHED BY THE OWNER OF THE UTILITIES INVOLVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UTILITY COMPANIES HAVING UTILITIES IN THE AREA PRIOR TO EXCAVATION. CONTINUOUS COMMUNICATIONS ON A DAY TO DAY BASIS WILL BE REQUIRED. THE UTILITY COMPANIES ARE LISTED BELOW.
- KENTUCKY STATUTES (KRS 367.4901 THRU 367.4917) REQUIRE THAT ALL EXCAVATORS PLANNING EXCAVATION OR DEMOLITION WORK SHALL CALL ALL UTILITY COMPANIES IN THE AREA AND AN UNDERGROUND PROTECTION SERVICE SUCH AS "BUD" (1-800-752-6007) AT LEAST TWO (2) WORKING DAYS BEFORE COMMENCING WORK TO NOTIFY UTILITY COMPANIES IN THE AREA WITH UNDERGROUND UTILITIES OF THE PLANNED EXCAVATION OR DEMOLITION ACTIVITIES.
- FITTINGS SHALL BE RESTRAINED JOINT (RJ) WHERE NOTED ON PLANS UNLESS NOTED OTHERWISE.
- WHEREVER POSSIBLE, FIRE HYDRANTS SHALL BE LOCATED FOR MINIMUM DEPTH OF BURY. EXTENSIONS SHALL BE REQUIRED FOR DEEPER INSTALLATIONS.
- ALL TIE-IN LOCATIONS SHALL BE UNCOVERED PRIOR TO CONSTRUCTION TO MAINTAIN PROPER ALIGNMENT AND ELEVATION OF NEW CONNECTIONS.
- CONTRACTOR SHALL INVENTORY REQUIRED MATERIALS, TRENCH DEWATERING EQUIPMENT, AND ASSEMBLE IF NECESSARY ALL REQUIRED FITTINGS PRIOR TO CUT-INS SO TO ENSURE MINIMUM DOWN TIME FOR CONNECTION.
- SURFACE DRAINAGE SHALL BE MAINTAINED ON A DAY-BY-DAY BASIS.
- THE CONTRACTOR WILL BE REQUIRED TO DISPOSE OF ALL EXCESS EXCAVATED MATERIAL FROM WATER LINE AND SERVICE LINE CONSTRUCTION THAT IS NOT PERMITTED TO BE BACKFILLED OVER THE PIPE.
- EXACT SIZES, DEPTHS, MATERIALS AND LOCATIONS OF OTHER UTILITIES SUCH AS SEWER SERVICES AND BRANCH SEWERS ARE UNKNOWN. THE CONTRACTOR SHALL ACCURATELY DETERMINE THESE AHEAD OF HIS/HER TRENCHING OPERATION, SO AS TO AVOID DELAYING THE PIPE LAYING PROGRESS. THE PROPOSED WATERLINE SHALL BE CONSTRUCTED SUCH THAT THE MINIMUM DISTANCE OVER OR UNDER THE OUTSIDE DIAMETER TO THE OUTSIDE DIAMETER OF ANY EXISTING UTILITY IS A MINIMUM OF 6 INCHES. FOR SEWER CROSSINGS THIS MINIMUM DISTANCE SHALL BE 18 INCHES.
- NO SEPARATE PAY ITEM HAS BEEN ESTABLISHED FOR FITTINGS AND NO DETERMINATION OF THE NUMBER OF FITTINGS REQUIRED ON THE JOB HAS BEEN MADE. THE CONTRACTOR, DURING THE BIDDING PHASE, SHALL DETERMINE THE NUMBER OF FITTINGS REQUIRED ON THE JOB AND INCLUDE THE COST OF THE FITTINGS AND INSTALLATION IN THE CONTRACT UNIT PRICE PER LF OF PIPE.
- EXCAVATION IN ALL STREETS, DRIVEWAYS AND PAVED PARKING AREAS SHALL BE BACKFILLED PER THE SPECIFIED TOP OF TRENCH SURFACE.
- ALL ROCKS, EARTH CLOUDS AND OTHER LARGE MATERIAL SHALL BE REMOVED FROM THE TRENCH BOTTOM PRIOR TO PLACEMENT OF THE BEDDING.
- ALL CULVERTS AND CROSS DRAINS AT STREETS, DRIVES AND ENTRANCES NEAR THE WORK AREA SHALL BE PROTECTED. IF IN THE PATH OF THE WORK, THE RESIDENT OBSERVER SHALL BE NOTIFIED, AND THE CONTRACTOR SHALL AVOID THESE UTILITIES WITH ADDITIONAL FITTINGS IF NECESSARY.
- ELEVATIONS SHOWN ARE BASED ON USGS CONTOURING AND/OR OBTAINED ELEVATIONS ON NAVD 88.
- PROPERTY LINES, IF SHOWN, ARE APPROXIMATE. PROPERTY INFORMATION WAS TAKEN FROM THE COUNTY PVA MAPS AND SHALL NOT BE CONSIDERED A TRUE BOUNDARY.
- EXCAVATION IS UNCLASSIFIED; NO SEPARATE PAYMENT SHALL BE MADE FOR ROCK REMOVAL.
- THE CONTRACTOR SHALL MAINTAIN CONTINUOUS ACCESS TO ALL COMMERCIAL ESTABLISHMENTS AND RESIDENTIAL DWELLINGS.
- BENCHMARKS/CONTROL POINTS ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL USE THESE POINTS FOR LAYOUT OF THE PROPOSED WORK.
- ELEVATIONS SHOWN ARE BASED ON FEET ABOVE MEAN SEA LEVEL FROM THE U.S. GEOLOGICAL SURVEY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DIFFERENCES IN FIELD CONDITIONS AND THE MAPPING.
- SILT CHECKS/FENCES SHALL BE PROVIDED TO PREVENT SEDIMENT RUNOFF FROM ENTERING DRAINAGE SYSTEMS. SILT CHECKS SHALL BE INSTALLED PER SPECS.
- CONTRACTOR SHALL REPAIR OR REPLACE AREAS OF ROADS AND DRIVEWAYS DAMAGED DURING CONSTRUCTION.
- EXISTING SANITARY SEWER LATERALS, IN GENERAL, CONNECT TO THE TRUNK SYSTEM PERPENDICULARLY FROM EACH HOUSE OR BUSINESS INTO THE STREET. THE EXACT LOCATION OF THE LATERALS ARE NOT KNOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO AVOID THESE LATERALS BY EXCAVATING FAR ENOUGH IN ADVANCE TO MOVE THE WATERLINE UP OR DOWN TO AVOID THE CONFLICT. ANY DAMAGE TO AN EXISTING SANITARY SEWER LATERAL SHALL BE PAID FOR AT THE CONTRACTOR'S EXPENSE.
- ALL NON-PAVED DISTURBED AREAS SHALL BE REVEGETATED AFTER WORK IN THE IMMEDIATE VICINITY HAS BEEN COMPLETED IN ACCORDANCE WITH THE SPECIFICATIONS. REVEGETATION SHALL BE COMPLETED NO LATER THAN TWO (2) WEEKS FOLLOWING COMPLETION OF WORK IN THE IMMEDIATE VICINITY.
- ANY ADJUSTMENT OR RELOCATIONS OF EXISTING UTILITIES, OUTSIDE THE SCOPE OF THIS WORK SHALL BE PERFORMED BY OTHERS. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PROTECT EXISTING UTILITIES TO THE MAXIMUM EXTENT PRACTICABLE. THE CONTRACTOR SHALL COORDINATE WORK WITH THE OWNER TO MINIMIZE DISRUPTION OF EXISTING SERVICES. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER 2 DAYS IN ADVANCE OF ANY WORK WHICH REQUIRES EXISTING UTILITIES TO BE TAKEN OUT OF SERVICE.
- MUD, SEDIMENT, AND OTHER CONSTRUCTION DEBRIS TRACKED FROM ACTIVE CONSTRUCTION AREAS ONTO ROADWAYS ARE TO BE SWEEPED FROM THE ROADWAY AT THE END OF EACH WORK DAY.
- UNLESS NOTED OTHERWISE, CONTRACTOR SHALL REPLACE ALL DAMAGED SIDEWALKS PER THE DETAIL SHOWN.

UTILITIES

CALL BEFORE YOU DIG!
1-800-752-6007

TELEPHONE :
HIGHLAND TELEPHONE CO-OP
28 CRIT KING ROAD
WHITLEY CITY, KENTUCKY 42653
PHONE (606) 376-5311

FIBER OPTIC :
AT&T
131 AMESBURY AVE.
MIDDLESBORO, KENTUCKY 41965
MR. ODELL KEENE
PHONE (606) 248-7243

CABLE :
SPECTRUM
5026 SOUTH HIGHWAY 27
SOMERSET, KENTUCKY 42501
MR. DARRELL NAVE
OFFICE (606) 678-9215, EXT. 404
CELL : (606) 271-2501

POWER :
SOUTH KENTUCKY RECC
51 CENTERS AVENUE
WHITLEY CITY, KY 42653
PHONE (800) 264-5112

WATER :
MCCREARY COUNTY WATER DISTRICT
456 N. HWY 27
WHITLEY CITY, KENTUCKY 42653
MR. STEPHEN WHITAKER
PHONE: 606-376-2540

SANITARY SEWER :
MCCREARY COUNTY WATER DISTRICT
456 N. HWY 27
WHITLEY CITY, KENTUCKY 42653
MR. STEPHEN WHITAKER
PHONE: 606-376-2540

GAS :
CITIPOWER
37 COURTHOUSE SQUARE
WHITLEY CITY, KY 42653
MR. BILL WEBB
PHONE: (606) 376-8373

ABBREVIATIONS

AV _____ AIR/VACUUM VALVE	MH _____ MANHOLE
B _____ BOTTOM	MAX. _____ MAXIMUM
C.I. _____ CAST IRON	M.J. _____ MECHANICAL JOINT
C _____ CENTERLINE	MIN. _____ MINIMUM
CMP _____ CORRUGATED METAL PIPE	OC _____ OPEN CUT
CO _____ CLEAN OUT	O.D. _____ OUTSIDE DIAMETER
CONC. _____ CONCRETE	P.E. _____ POLYETHYLENE
CONST. _____ CONSTRUCT	PROP. _____ PROPOSED
CPP _____ CORRUGATED PLASTIC PIPE	PV _____ PLUG VALVE
D _____ DRAIN	PVC _____ POLYVINYL CHLORIDE
DB _____ DIRECTIONAL BORE	RCP _____ REINFORCED CONC. PIPE
DIA. Ø _____ DIAMETER	REINF. _____ REINFORCE(D)
D.I. _____ DUCTILE IRON	REQ. _____ REQUIRED
D.I.P. _____ DUCTILE IRON PIPE	R.J. _____ RESTRAINT JOINT
DIST. _____ DISTURBED	RW _____ RAW WATER
EL. , ELEV. _____ ELEVATION	SCHED. _____ SCHEDULE
EOP _____ EDGE OF PAVEMENT	S.S. _____ SANITARY SEWER
EX. , EXIST. _____ EXISTING	ST _____ SEPTIC TANK
FH _____ FIRE HYDRANT	STL. _____ STEEL
FLH _____ FLUSHING HYDRANT	T _____ TOP
FM _____ FORCE MAIN	T.B.A. _____ TO BE ABANDONED
F.V. _____ FIELD VERIFY	T.B.R. _____ TO BE REMOVED
FC _____ FLUSHING CONNECTION	T.R. _____ TO REMAIN
GAL. _____ GALLON	TS & V-TAPPING SLEEVE AND VALVE
GALV _____ GALVANIZED	TYP. _____ TYPICAL
GL _____ GAS LINE	U.N.O. _____ UNLESS NOTED OTHERWISE
GM _____ GAS METER	VCP _____ VITRIFIED CLAY PIPE
GS _____ GAS SERVICE LINE	VERT. _____ VERTICAL
GV _____ GATE VALVE	W _____ WATER LINE
HDPE _____ HIGH-DENSITY POLYETHYLENE	WLM _____ WATER LINE MARKER
I.E. _____ INVERT ELEVATION	WM _____ WATER METER
INV. _____ INVERT	WS _____ WATER SERVICE LINE
KDOH _____ KENTUCKY DEPARTMENT OF HIGHWAYS	UE _____ UNDERGROUND ELECTRIC
LA _____ LATERAL ASSEMBLY	DB _____ DIRECTIONAL BORE

LEGEND

EXISTING FEATURES	PROPOSED FEATURES
----- EX. PROPERTY LINES/RIGHT-OF-WAY	----- PROP. RIGHT-OF-WAY
--- UGT --- EX. UNDERGROUND TELEPHONE LINE	--- PROP. WATER LINES
--- GAS --- EX. GAS LINE	--- PROP. VALVE
--- W --- EX. WATERLINE	--- PROP. REDUCER
--- EX. GUARDRAIL	--- PROP. SANITARY SEWER MANHOLE
--- EX. ROAD	--- PROP. WATER METER
--- SS --- EX. GRAVITY SEWER	--- PROP. WATER VALVE
--- FM --- EX. SANITARY SEWER FORCE MAIN	--- PROP. FIRE HYDRANT
--- EX. STORM SEWER PIPE	--- PROP. REDUCER
--- X --- EX. FENCE	--- PROP. LINE CAP
--- EX. STREAM	--- PROP. RIGHT-OF-WAY
--- BENCHMARK/CONTROL POINT	--- PROP. KDOH DISTURBED LIMITS
--- EX. SANITARY SEWER MANHOLE	--- PROP. GAS LINE (BY OTHERS)
--- EX. AIR RELEASE VALVE	
--- EX. SANITARY SEWER CLEANOUT	
--- EX. HEADWALL	
--- EX. TREES	
--- EX. POWER POLE	
--- EX. GUY WIRE	
--- EX. GAS METER	
--- EX. FIRE HYDRANT	
--- EX. GAS VALVE	
--- EX. WATER METER	
--- EX. WATER VALVE	

ECLIPSE ENGINEERS, PLLC

113 WEST MT. VERNON STREET
BUNNELL, MISSOURI 64618
PHONE: 606-461-0959

SCALE:	DESIGNED BY:	1"=50'	ARR	DATE:
DRAWN BY:	CHECKED BY:	WBD	ARR	BY:
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		JOB 20019/VL		

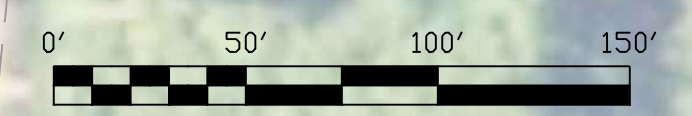
MCCREARY COUNTY WATER DISTRICT
456 N. HWY 27
WHITLEY CITY, KENTUCKY 42653

GENERAL NOTES, ABBREVIATIONS,
LEGEND AND UTILITIES
CATRON - NEEDLE ROAD
WATERLINE EXTENSION

Alan R. Robinson
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10-22-21
ALAN R. ROBINSON
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LICENSED PROFESSIONAL ENGINEER



FSA, USDA, NAIP, DGI



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SCALE:	DESIGNED BY:	CHECKED BY:	DATE:
1"=50'	ARR	ARR	SEPTEMBER 2021
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			SEPTEMBER 2021
			JOB 20019 WL
			CAD DWG ID:

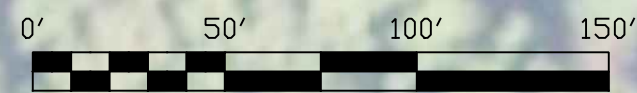
**McCREARY COUNTY
 WATER DISTRICT**
 456 N. HWY 27
 WHITLEY CITY, KENTUCKY 42653

**PLAN - LINE A CATRON - NEEDLE
 CATRON - NEEDLE ROAD
 WATERLINE EXTENSION**

SHEET NUMBER:
3



FSA, USDA, NAIP, DGI



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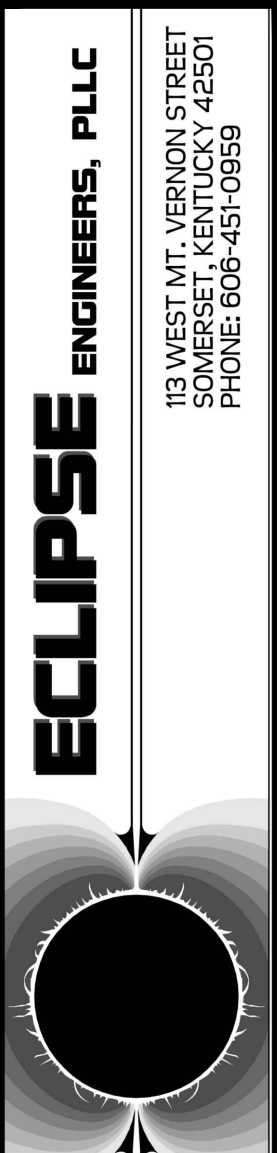
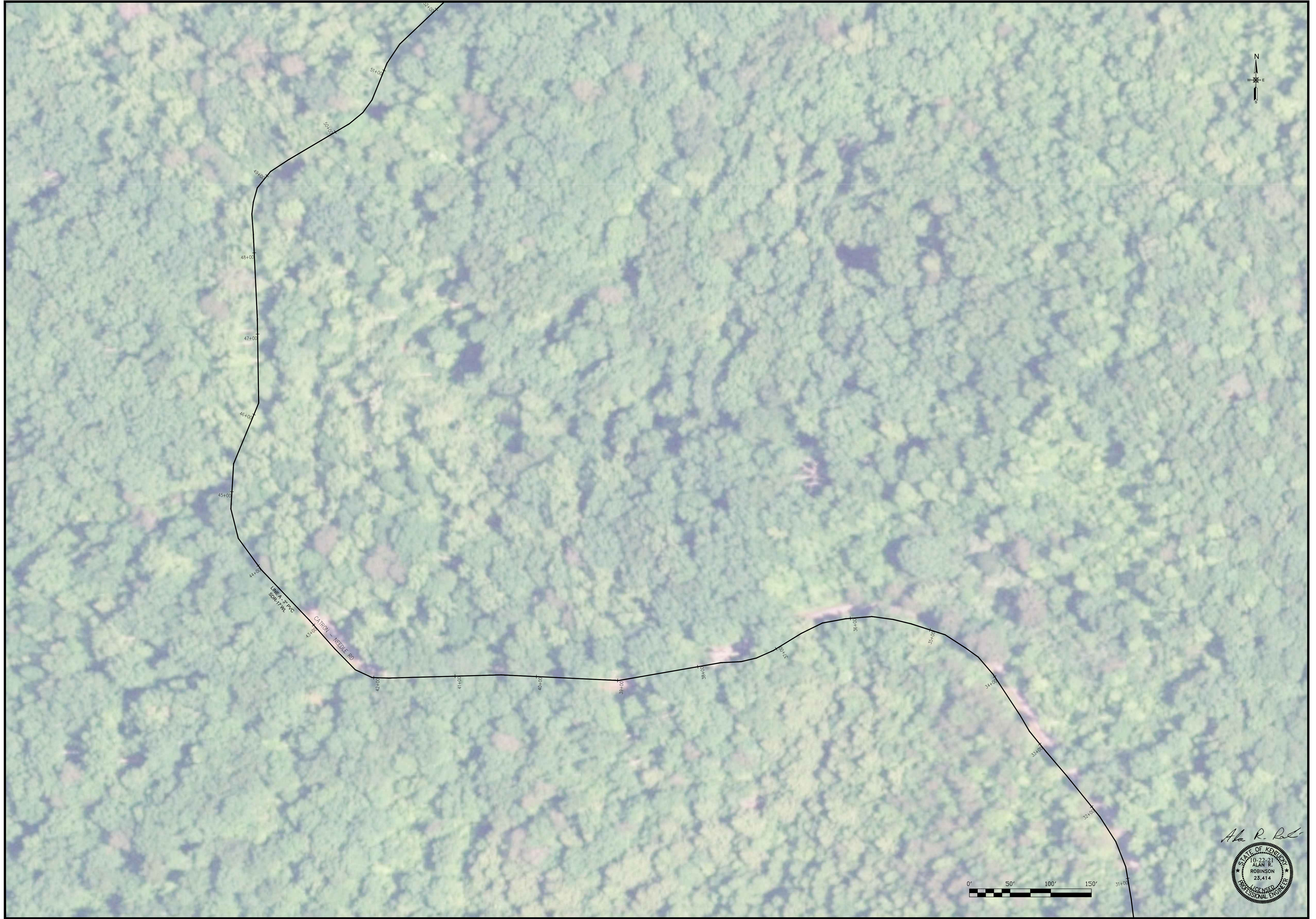
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 113 WEST MT. VERNON STREET
 VERNON, KY 40390
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	JOB 20019 WL	JOB 20019 WL			

**McCREARY COUNTY
 WATER DISTRICT**
 456 N. HWY 27
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**PLAN - LINE A CATRON - NEEDLE
 CATRON - NEEDLE ROAD
 WATERLINE EXTENSION**

SHEET NUMBER:
4



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 42501
 PHONE: 606-451-0559

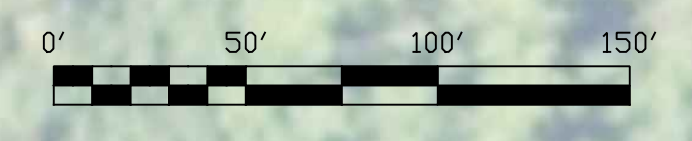
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CAD DWG ID:	SEPTEMBER 2021	SEPTEMBER 2021			
	JOB 20019 WL	JOB 20019 WL			

McCREARY COUNTY
WATER DISTRICT
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PLAN - LINE A CATRON - NEEDLE
CATRON - NEEDLE ROAD
WATERLINE EXTENSION

SHEET NUMBER:
5

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			SEPTEMBER 2021
			JOB 20019 WL

**McCreeary County
 Water District**
 456 N. HWY 27
 WHITLEY CITY, KENTUCKY 42653

PLAN - LINE A CATRON - NEEDLE
 CATRON - NEEDLE ROAD
 WATERLINE EXTENSION

SHEET NUMBER:
6



FSA, U

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42501
PHONE: 606-451-0559

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WBD	WBD	WBD			
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CAD DWG ID:	JOB	CAD DWG ID:	JOB	CAD DWG ID:	JOB
	20019 WL		20019 WL		20019 WL

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WATER DISTRICT**
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WHITLEY CITY, KENTUCKY 42653

**PLAN - LINE A CATRON - NEEDLE
CATRON - NEEDLE ROAD
WATERLINE EXTENSION**

SHEET NUMBER:
7



STA 91+00
 1 - 3/4" SERVICE TAP
 20 LF 3/4" HDPE SERVICE LINE
 1 - WATER METER ASSEMBLY
 1 - 3" GATE VALVE
 1 - FLUSH HYDRANT ASSEMBLY
 1 - 3"x2" REDUCER

STA 90+15
 1 - 3/4" SERVICE TAP
 5 LF 3/4" HDPE SERVICE LINE
 1 - WATER METER ASSEMBLY

STA 84+55
 1 - 3" GATE VALVE

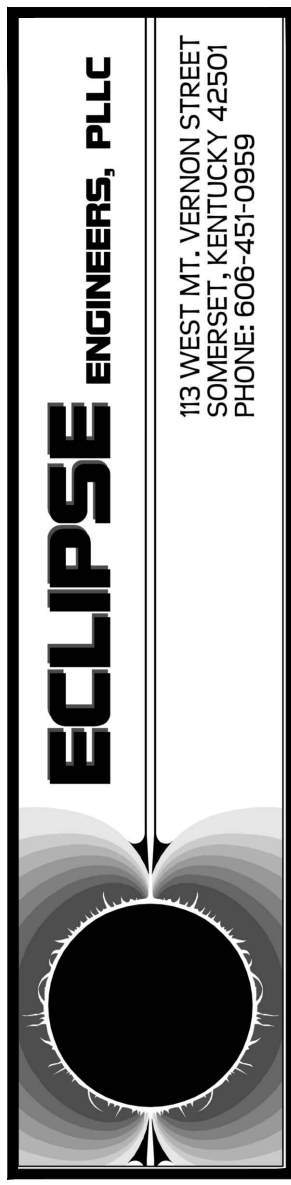
STA 84+10
 1 - 3/4" SERVICE TAP
 25 LF 3/4" HDPE SERVICE LINE
 1 - WATER METER ASSEMBLY

STA 84+50
 1 - 3/4" SERVICE TAP
 30 LF 3/4" HDPE SERVICE LINE
 1 - WATER METER ASSEMBLY

STA 83+90
 1 - 3/4" SERVICE TAP
 15 LF 3/4" HDPE SERVICE LINE
 1 - WATER METER ASSEMBLY

STA 82+32
 1 - 3/4" SERVICE TAP
 30 LF 3/4" HDPE SERVICE LINE
 1 - WATER METER ASSEMBLY

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			SEPTEMBER 2021
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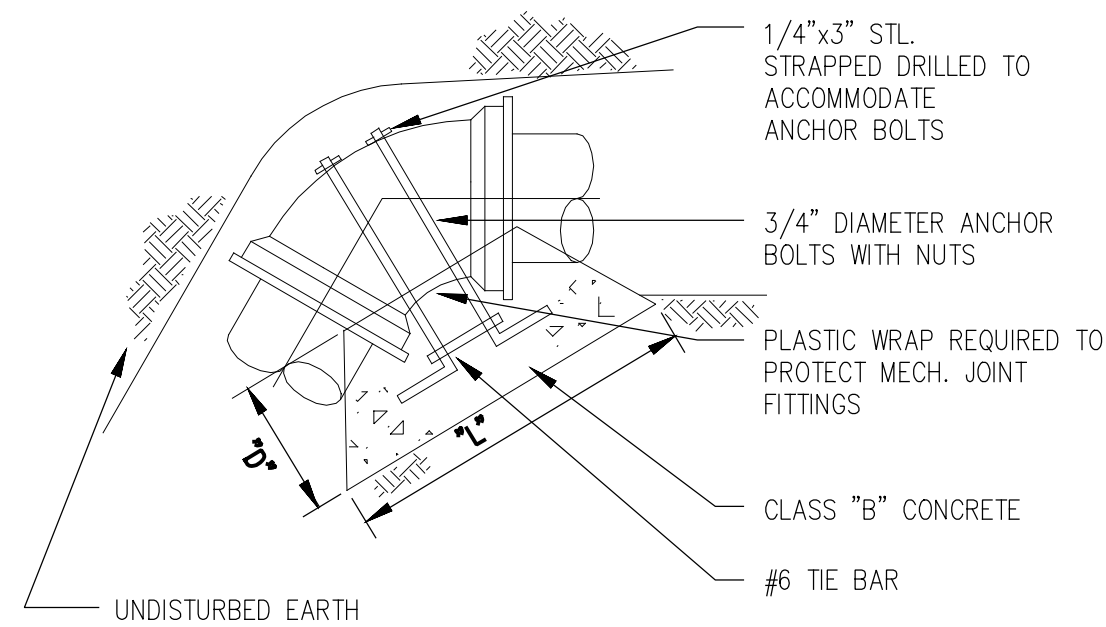
PLAN - LINE A CATRON - NEEDLE
CATRON - NEEDLE ROAD
WATERLINE EXTENSION

SHEET NUMBER:
8

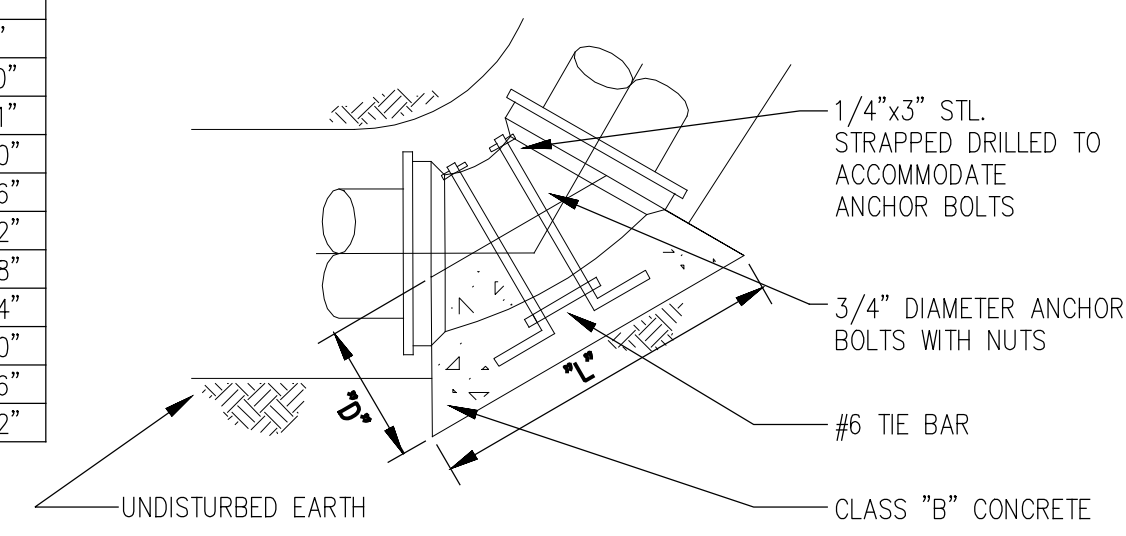
THRUST BLOCK SCHEDULE

SIZE	90° BEND			45° BEND			22 1/2° BEND			11 1/4° BEND			TEE & END MAIN		
	D	W	L	D	W	L	D	W	L	D	W	L	D	W	L
2"	6"	10"	4"	4"	7"	3"	4"	7"	3"	4"	7"	3"	6"	10"	4"
3"	6"	10"	8"	4"	8"	6"	4"	8"	3"	4"	8"	3"	6"	10"	6"
4"	6"	11"	9"	6"	11"	7"	4"	9"	5"	4"	9"	3"	6"	11"	8"
6"	8"	15"	13"	6"	13"	12"	4"	11"	8"	4"	11"	4"	8"	15"	10"
8"	10"	21"	19"	8"	17"	17"	6"	15"	10"	4"	13"	6"	10"	21"	14"
10"	10"	23"	29"	8"	20"	22"	6"	17"	13"	6"	17"	7"	10"	23"	30"
12"	12"	27"	31"	10"	24"	27"	10"	23"	14"	6"	19"	9"	12"	27"	36"
14"	14"	31"	38"	13"	29"	31"	12"	27"	17"	6"	21"	12"	14"	31"	42"
16"	15"	34"	44"	15"	33"	36"	14"	31"	19"	8"	25"	13"	17"	36"	48"
18"	21"	42"	45"	18"	38"	39"	17"	36"	21"	10"	29"	14"	21"	41"	54"
20"	22"	45"	53"	21"	43"	42"	18"	39"	24"	10"	31"	16"	22"	44"	60"
24"	28"	51"	59"	27"	49"	48"	23"	45"	30"	16"	37"	32"	28"	50"	66"
30"	34"	57"	65"	33"	55"	54"	29"	51"	36"	22"	43"	38"	34"	56"	72"

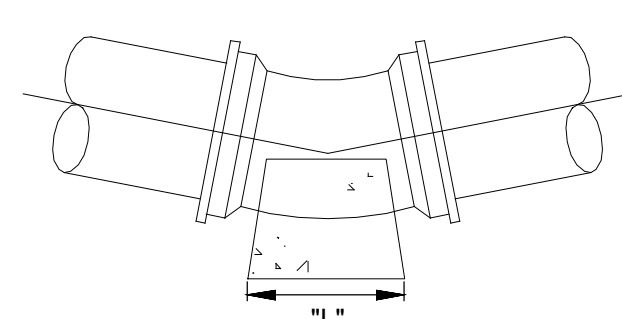
W = WIDTH OF CONCRETE FROM UNDISTURBED TRENCH WALL TO UNDISTURBED TRENCH WALL



INSIDE VERTICAL BEND
NOT TO SCALE
(SEE THRUST BLOCK SCHEDULE FOR DIMENSIONS OF BLOCKING)



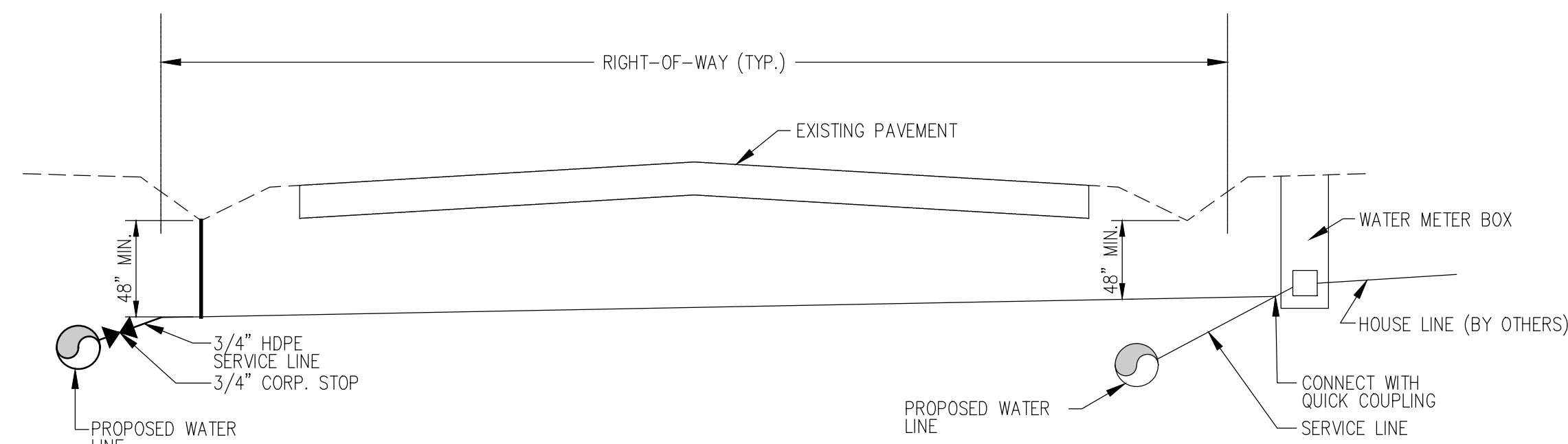
OUTSIDE VERTICAL BEND
NOT TO SCALE
(SEE THRUST BLOCK SCHEDULE FOR DIMENSIONS OF BLOCKING)



11 1/4, 22 1/2 AND 45° BEND
THRUST BLOCKS
NOT TO SCALE
(SEE THRUST BLOCK SCHEDULE FOR DIMENSIONS OF BLOCKING)

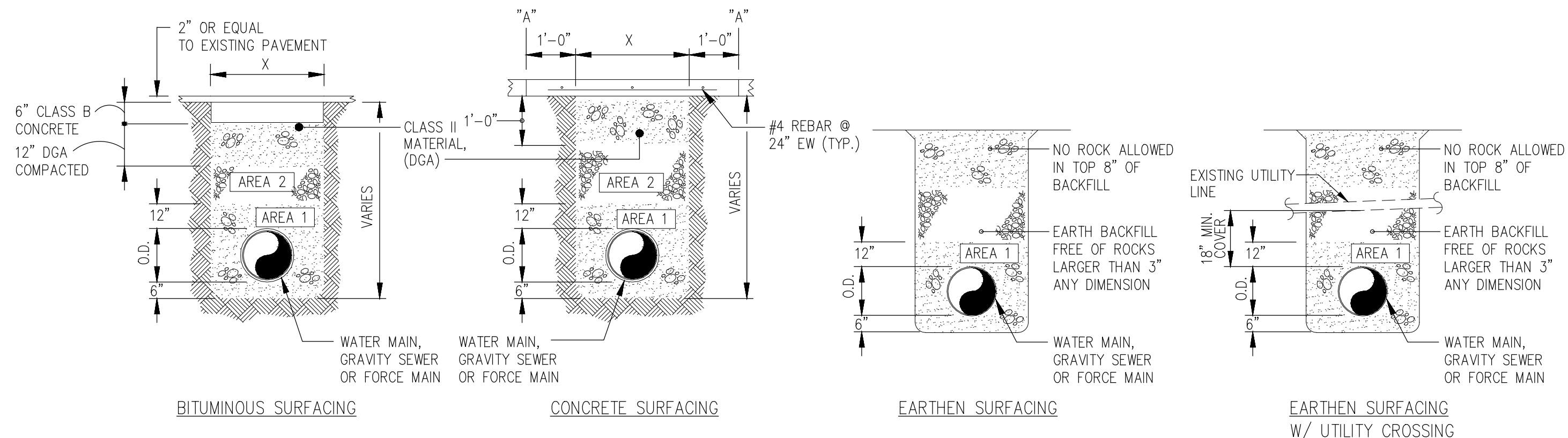
THRUST BLOCKING

NOT TO SCALE



SERVICE CONNECTIONS

NOT TO SCALE

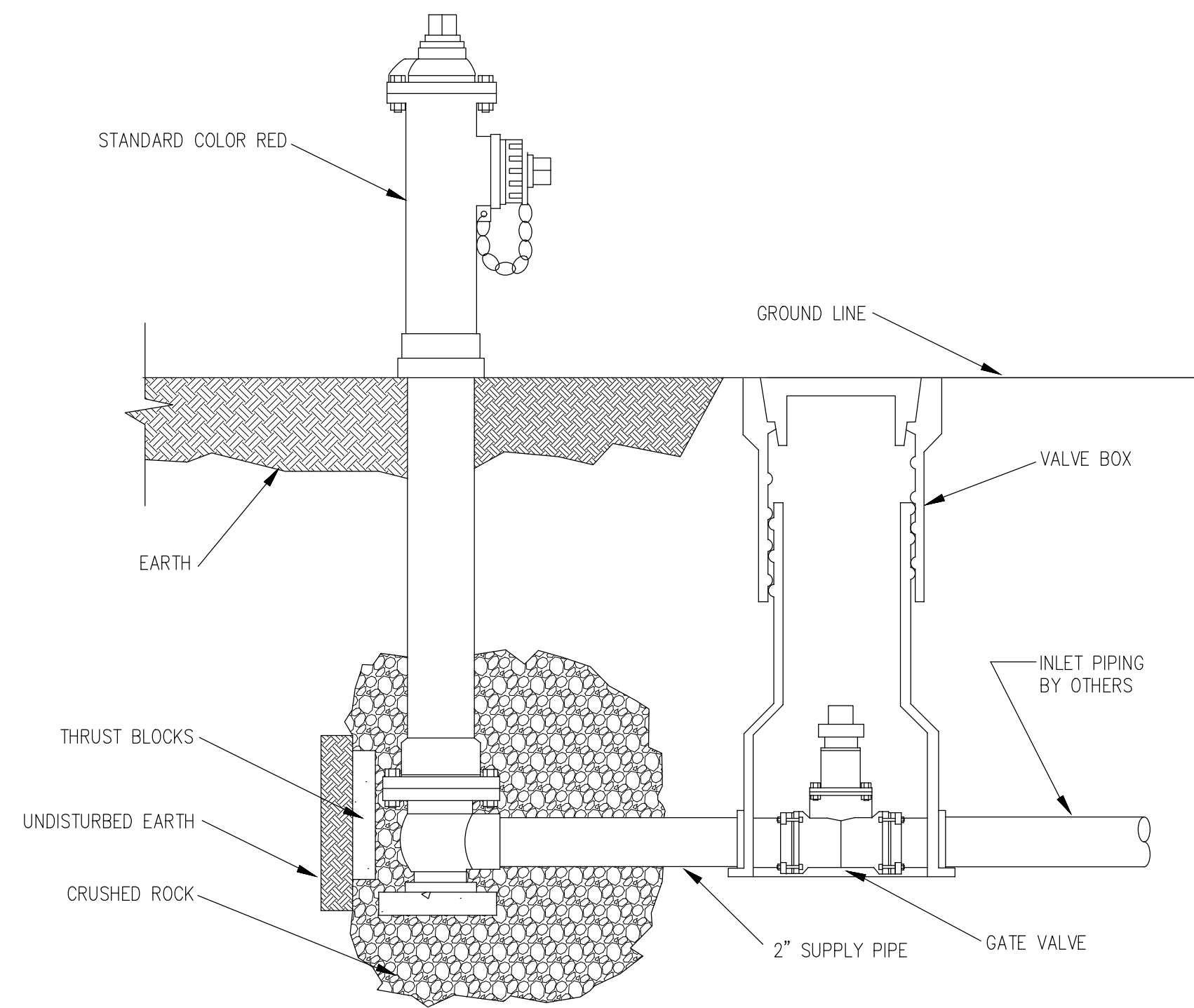


NOTES:

- AREA 1 MATERIAL: WATER MAIN, GRAVITY SEWER AND FORCE MAIN = NO. 9 CRUSHED STONE.
- AREA 2 = NO. 9 CRUSHED STONE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE TRENCH SURFACE IN A CONDITION SUITABLE FOR VEHICULAR TRAFFIC.
- REPLACE BITUMINOUS PAVEMENT WITH SAME TYPE AND THICKNESS (2" MIN.) AS EXISTING PAVEMENT.
- IF ROCK IS ENCOUNTERED, A MINIMUM OF 6" NO. 9 CRUSHED STONE MUST BE PLACED UNDER THE ENCASEMENT PIPE (IF OPEN CUT).
- X = MAX. WIDTH OF TRENCH AT SURFACE UNDER NORMAL CONDITIONS (2 + PIPE O.D.).
- FROM POINTS "A" TO NEAREST JOINT OR BREAK IN PAVEMENT MUST BE AT LEAST SIX (6) FEET OR MORE, IF LESS THAN SIX (6) FEET REMOVE PAVEMENT TO JOINT OR BREAK AND REPLACE ENTIRE SLAB.

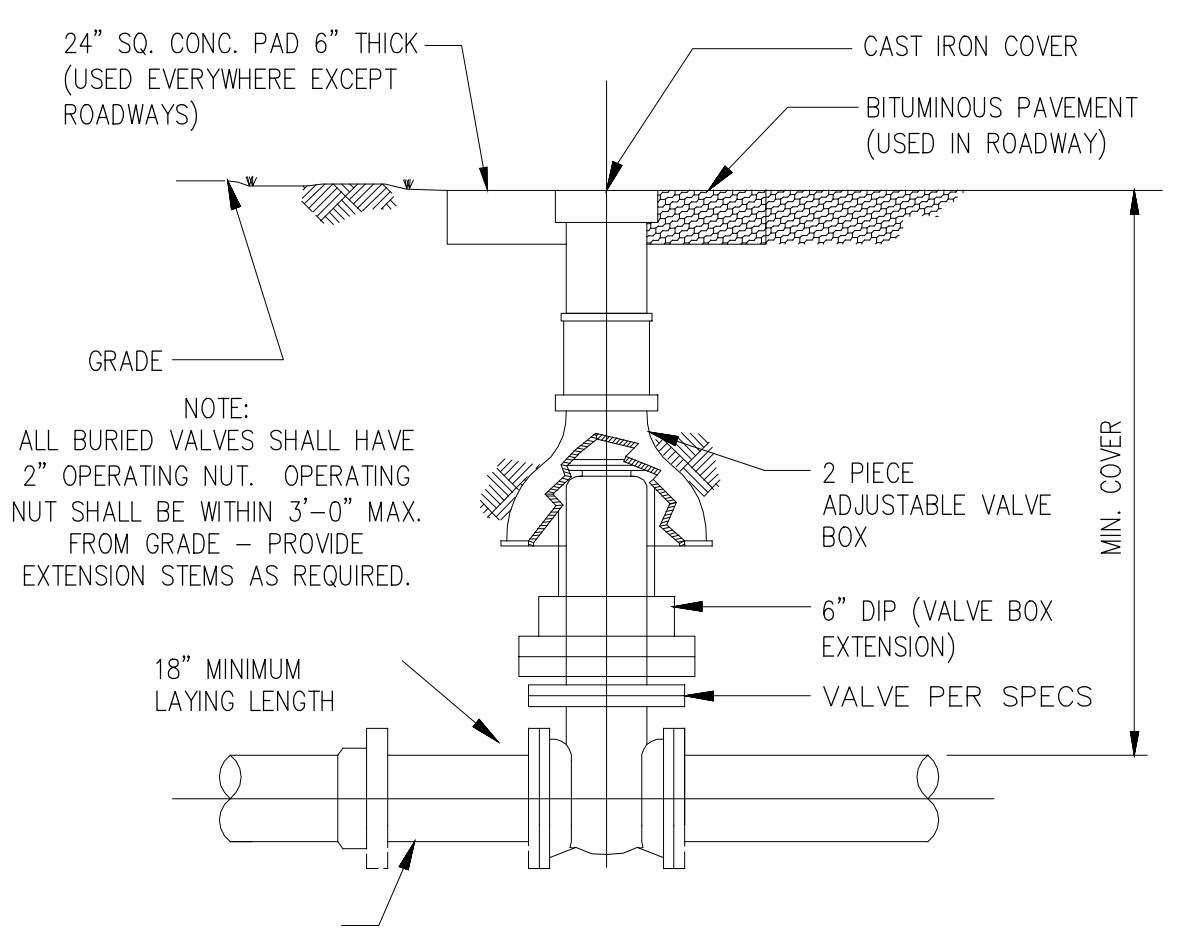
PIPE BEDDING AND BACKFILLING

NOT TO SCALE



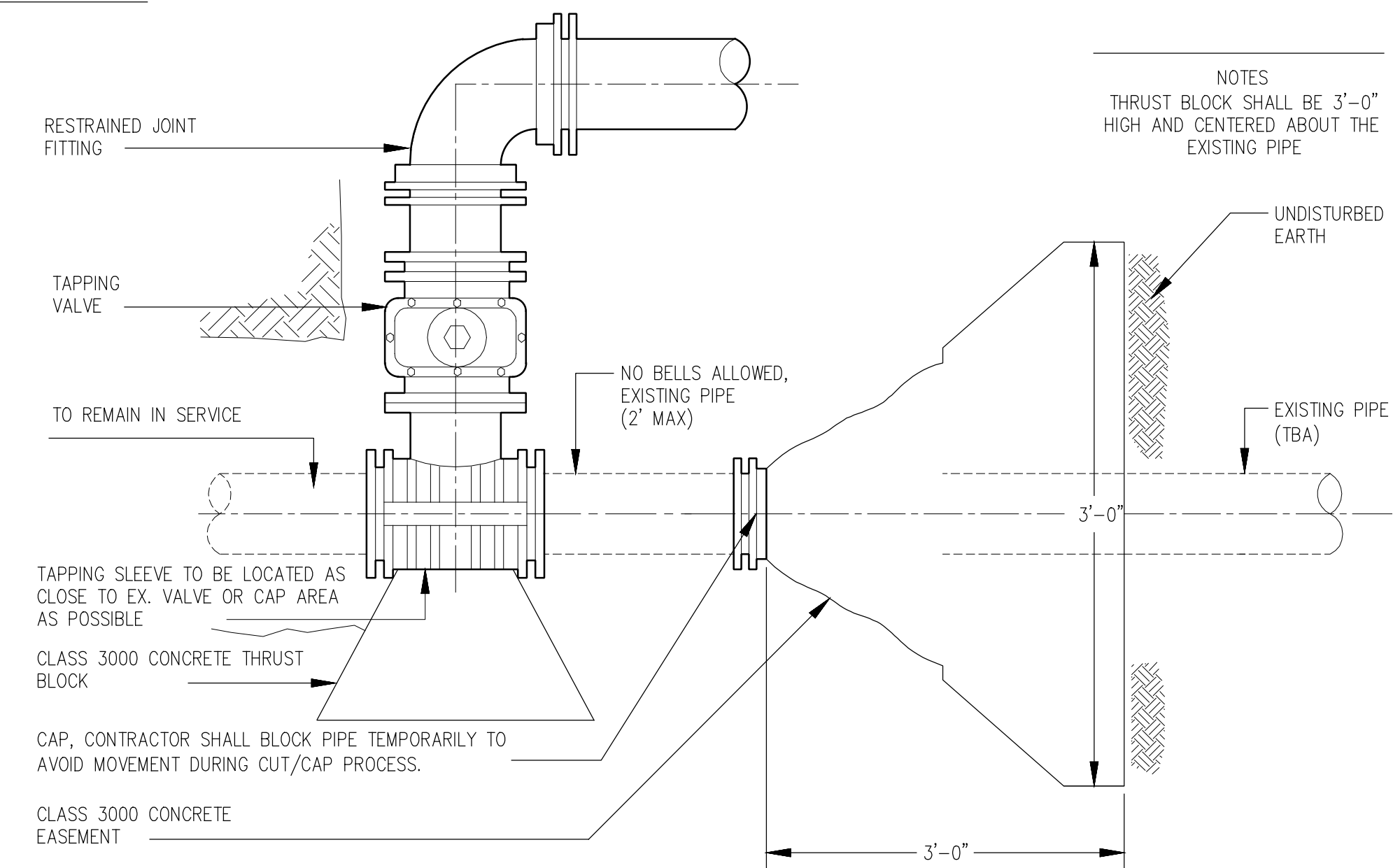
FLUSH HYDRANT

NOT TO SCALE



GATE VALVE

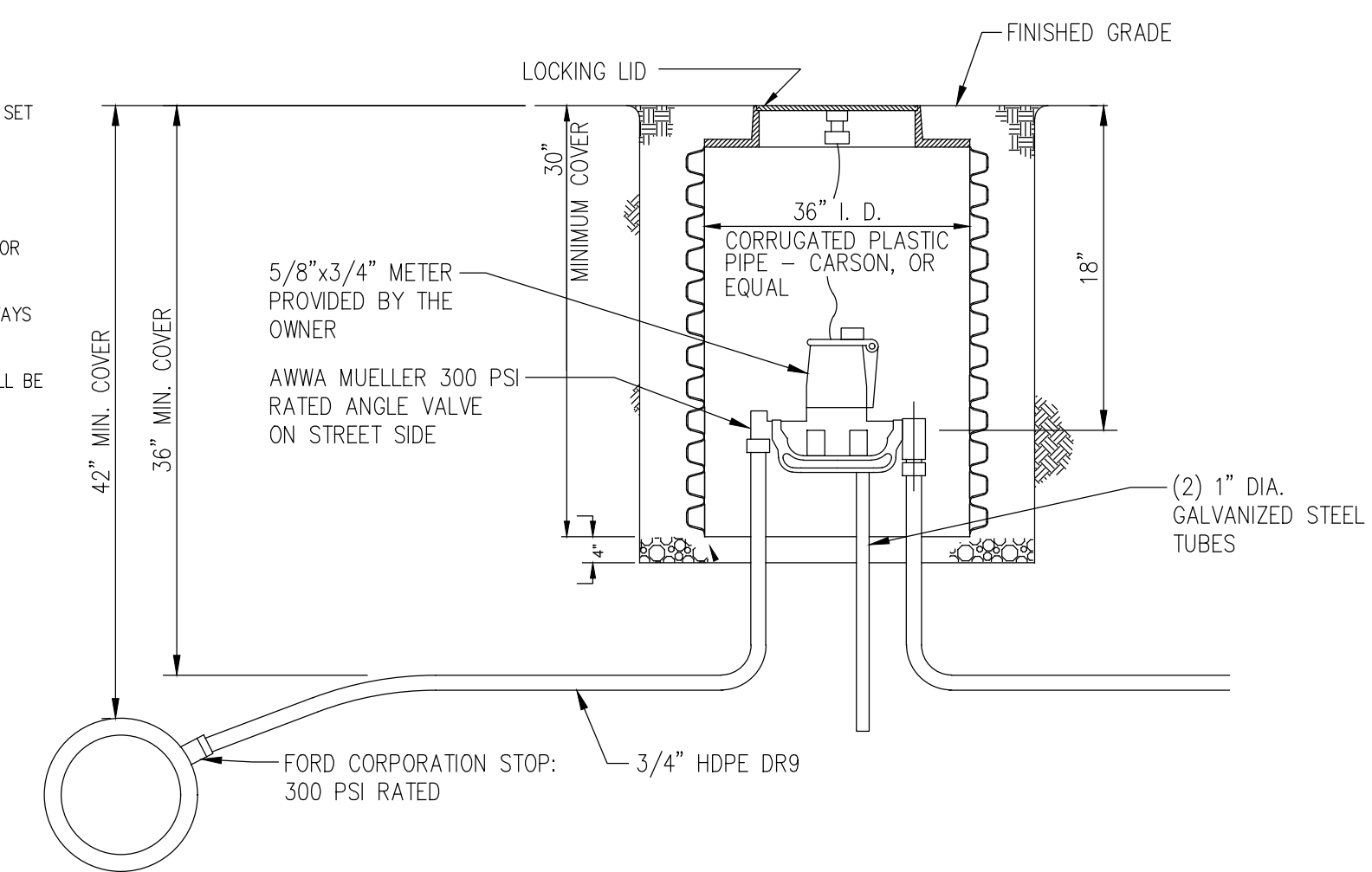
NOT TO SCALE



TAPPING SLEEVE AND VALVE WITH CAP

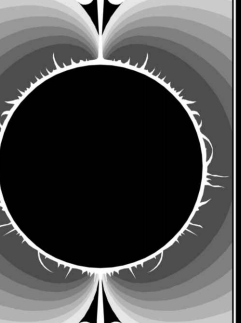
NOT TO SCALE

- ALL WATER METERS SHALL REGISTER IN GALLONS AND BE SET LEVEL - METERS PROVIDED BY OWNER.
- 36" OF COVER SHALL BE REQUIRED OVER SERVICES FROM DISTRIBUTION MAIN TO METER BOX.
- METER BOX SHALL BE ONE PIECE CONSTRUCTION OF PVC OR RIGID FIBERGLASS.
- METER SET BEHIND SIDEWALK - NOT IN DRIVEWAY, WALKWAYS ETC.
- THE SERVICE LINE BETWEEN THE MAIN AND THE METER WILL BE ONE CONTINUOUS PIECE OF PIPE. (NO JOINTS WILL BE PERMITTED.)



WATER METER DETAIL

NOT TO SCALE



SCALE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	PROJECT NO.:	DATE:	CAD DWG ID:
1"=50'	ARR	WBD	ARR	20019	SEPTEMBER 2021	JOB 20019/VL
REVISION:	BY:	DATE:				

**McCREARY COUNTY
WATER DISTRICT**
456 N. HWY 27
WHITLEY CITY, KENTUCKY 42653

STANDARD DETAILS
CATRON - NEEDLE ROAD
WATERLINE EXTENSION

Alan R. Robinson
ALAN R. ROBINSON
25,414
REGISTERED PROFESSIONAL ENGINEER
STATE OF KENTUCKY
0-22-21