

2024 CDBG NEW JOHNSONVILLE COLLECTION SYSTEM REHABILITATION

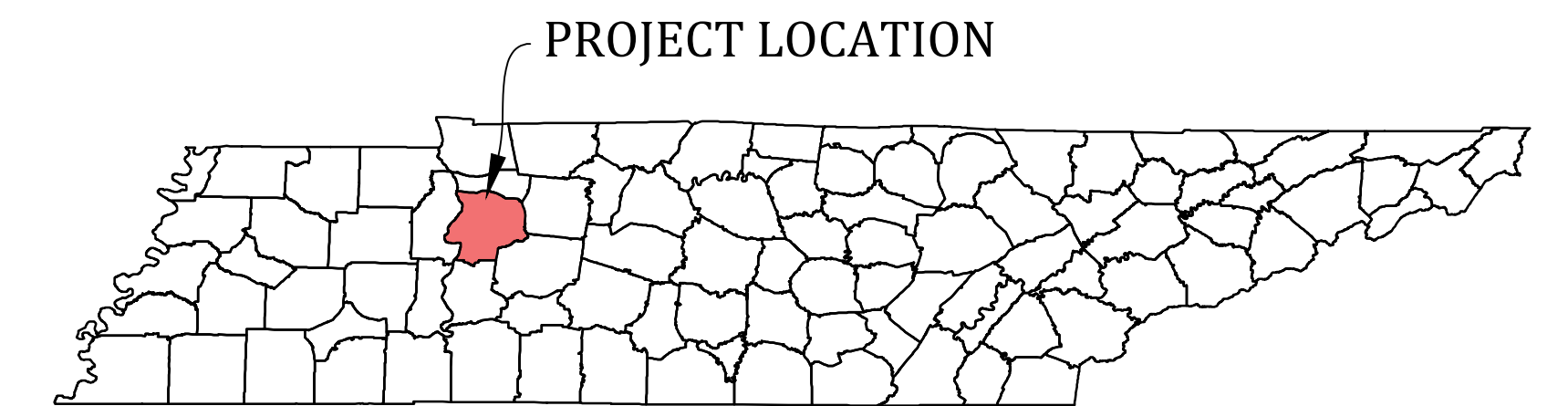
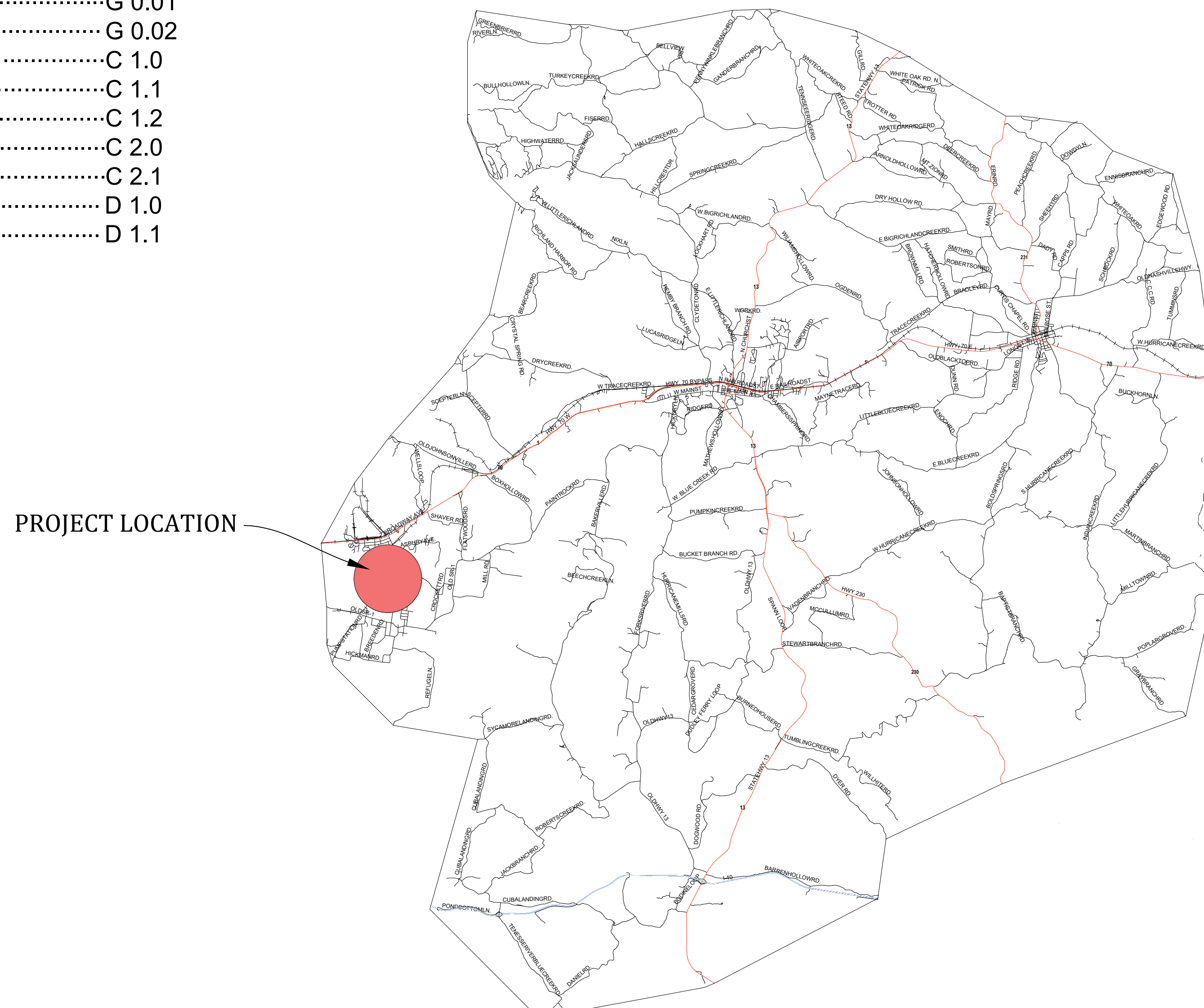
THE CITY OF NEW JOHNSONVILLE, TENNESSEE

WAYNE WOODS - MAYOR
LARRY BRADFORD - VICE MAYOR
KRYSTAL BEASLEY - COUNCIL MEMBER
RON GINGERICH - COUNCIL MEMBER
JAMES CORBITT - COUNCIL MEMBER
CHRIS BROWNING - COUNCIL MEMBER
CODY KESLINGER - COUNCIL MEMBER
MICHAEL U. KING - CITY ATTORNEY
BRANDY VANN - CITY RECORDER

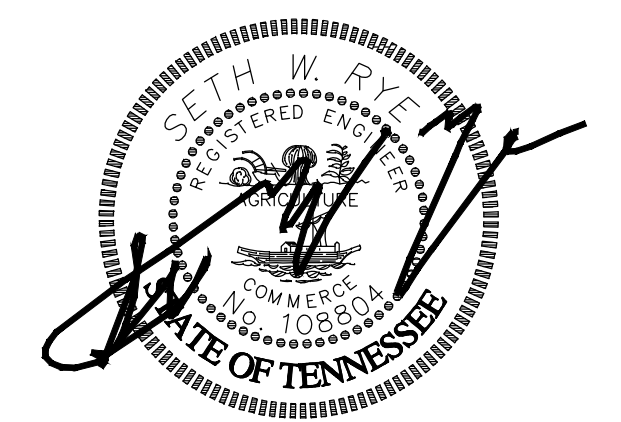
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HUMPHREYS COUNTY, TENNESSEE



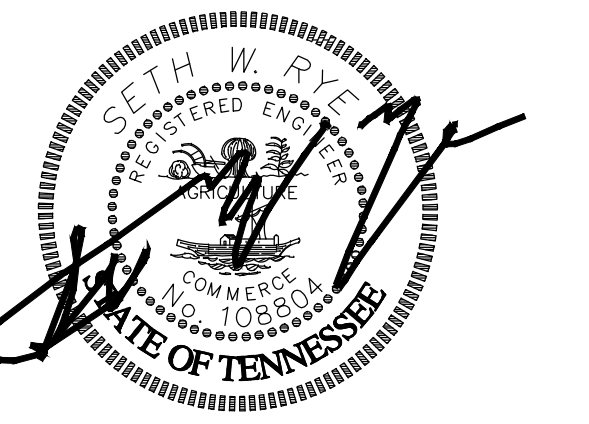
RYE
ENGINEERING PLC
CONSULTING ENGINEERS & SYSTEM OPERATORS
4210 W MAIN STREET, ERIN TN 37061
OFFICE (931) 289-2300 FAX (931) 289-2313



DATE: 10/21/2025

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GENERAL NOTES

G 0.01

2

GENERAL NOTES:

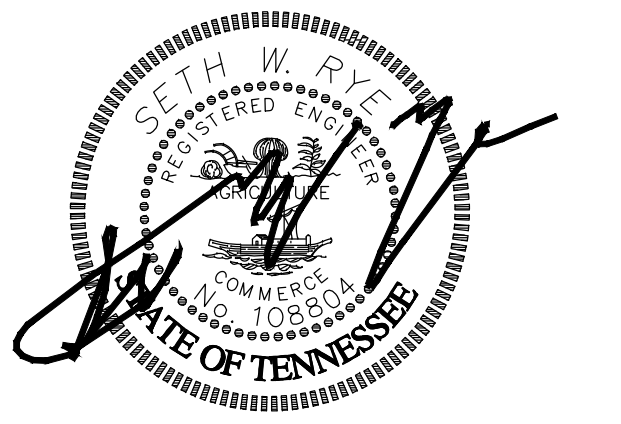
1. ALL UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES AND IS RESPONSIBLE FOR DAMAGE TO PRIVATE OR PUBLIC UTILITIES SHOWN HEREON OR NOT SHOWN HEREON. CONTRACTOR SHALL VERIFY THE EXISTENCE OF, THE ACTUAL LOCATION OF, AND AVAILABILITY OF ALL EXISTING UTILITIES IN THE FIELD PRIOR TO GROUNDBREAKING. CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT ALL POINTS OF CROSSING AND COMMENCEMENT TO IDENTIFY CONFLICTS AND VERIFY LINE SIZE BEFORE BEGINNING CONSTRUCTION. CONTRACTOR SHALL INFORM THE ENGINEER OF ANY CONFLICTS IMMEDIATELY.
2. UTILITY CONSTRUCTION SHALL BE MADE IN ACCORDANCE WITH THE SPECIFICATIONS OF THIS CONTRACT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE CITY OF NEW JOHNSONVILLE AND ENGINEER.
3. THE CONTRACTOR SHALL COORDINATE WITH THE MERIWETHER LEWIS ELECTRIC COOPERATION (MLEC) AND AT&T FOR MARKING LOCATIONS OF UTILITIES BEFORE BEGINNING CONSTRUCTION.
4. CONTRACTOR SHALL MAINTAIN PROPER TRAFFIC CONTROL AT ALL TIMES. CONTRACTOR SHALL ALLOW FULL ACCESS TO PROPERTIES AFFECTED BY UTILITY CONSTRUCTION.
5. CONTRACTOR SHALL PROVIDE SHEETING, SHORING, AND BRACING AS NECESSARY TO PROTECT WORKERS AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE A TRENCH SAFETY SYSTEM TO MEET ALL APPROPRIATE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.
6. PIPE TRENCHES SHALL NOT BE EXCAVATED MORE THAN 200 FEET AHEAD OF PIPE INSTALLATION.
7. ALL REUSABLE MATERIAL (VALVES, FITTINGS, ETC.) REMOVED OR REPLACED SHALL BE RETURNED TO THE OWNER UPON REQUEST. OTHERWISE, CONTRACTOR IS TO DISPOSE OF MATERIAL IN AN APPROVED MANNER.
8. ROUTE OF NEW UTILITIES SHOWN IS APPROXIMATE. ADJUSTMENTS TO ALIGNMENT SHALL BE MADE IN THE FIELD WITH PERMISSION FROM ENGINEER IF FIELD CONDITIONS VARY FROM THE PLANS. NO CHANGE ORDERS SHALL BE ISSUED FOR MINOR ALIGNMENT CHANGES OR EXPLORATORY DIGGING.
9. CONTRACTOR SHALL RESTORE ALL AFFECTED STRUCTURES AND PROPERTY TO EQUAL OR BETTER CONDITION TO THE SATISFACTION OF PROPERTY OWNERS AND CITY.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE GOVERNING STREET OR HIGHWAY DEPARTMENT FOR PAVEMENT PATCHING AND REPAIR OF ANY STREET OR ROAD.
11. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH ALL NECESSARY INFORMATION TO COMPLETE AS-BUILT DRAWINGS. THIS INFORMATION SHALL INCLUDE BUT BE NOT LIMITED TO TWO LOCATION TIES FOR ALL SEWER SERVICES, TWO LOCATION TIES FOR ALL APPURTENANCES (VALVES, ELBOWS, ETC). THIS INFORMATION SHALL BE PROVIDED IN A VERY CLEAR AND CONCISE MANNER AND THE ACCURACY THEREOF SHALL BE CERTIFIED TO THE ENGINEER BY THE CONTRACTOR BEFORE ACCEPTANCE.
12. ALL PROPERTY DISTURBED AS A RESULT OF CONSTRUCTION OF THIS PROJECT SHALL BE RESTORED TO A PRE-CONSTRUCTION CONDITION, OR AS NEAR POSSIBLE, AT THE DISCRETION OF THE ENGINEER.
13. THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL AND LEGALLY DISPOSE OF SAID MATERIAL AT AN APPROPRIATE OFF-SITE LOCATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE, LOCATE, AND SECURE RIGHTS TO ANY SITE THAT RECEIVES EXCESS MATERIAL.
14. CONTRACTOR TO PERFORM PRE-CONSTRUCTION VIDEO SURVEY ON ENTIRE PROJECT AREA.
15. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS, MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIRED, IF NECESSARY, AFTER RAINFALL.
16. ALL SURFACE WATER FLOWING TOWARD THE EXCAVATIONS OR FILL WORK SHALL BE DIVERTED, PIPED, OR FLUMED TO THE DOWN STREAM SIDE OF THE WORK. THIS CAN BE ACCOMPLISHED THROUGH UTILIZATION OF COFFERDAMS OR CONSTRUCTED BERMS IN CONJUNCTION WITH THE PIPE OR FLUME. COFFERDAMS SHALL BE CONSTRUCTED OF SAND BAGS, CLEAN ROCK, STEEL, OR OTHER NON-ERODIBLE MATERIAL.
17. SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE / U.S. SILT FENCE MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG STREAM BANKS IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS. SILT FENCE SHALL BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTENDED THE WIDTH OF THE AREA TO BE CLEARED.
18. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND BE TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS AND DOES NOT MIGRATE INTO WATERS OF THE STATE.
19. SLURRY SEWER PUMPED FROM WORK AREAS AND EXCAVATIONS MUST BE HELD IN SETTLING BASINS OR TREATED BY FILTRATION PRIOR TO DISCHARGE INTO SURFACE WATERS. SEDIMENT BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SEDIMENT BASINS AND TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF SEWER TO BE TREATED.
20. CHECK DAMS SHALL BE UTILIZED WHERE RUNOFF IS CONCENTRATED. CHECK DAMS CONSTRUCTED OF CLEAN ROCK, SEDIMENT LOGS, OR SANDBAGS SHALL BE PROPERLY CONSTRUCTED TO DETAIN RUNOFF AND TRAP SEDIMENT.
21. CLEARING, GRUBBING, AND OTHER DISTURBANCES TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR LINE OR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED. ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE.
22. ALL SPILLS OF PETROLEUM PRODUCTS OR OTHER POLLUTANTS MUST BE REPORTED TO THE EMERGENCY MANAGEMENT AGENCY AND MEASURES TAKEN IMMEDIATELY TO PREVENT POLLUTION OF WATERS OF THE STATE, INCLUDING GROUNDWATER.
23. INSPECTIONS OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DONE BEFORE ANTICIPATED STORM EVENTS (OR SERIES OF STORM EVENTS SUCH AS INTERMITTENT SHOWERS OVER ONE OR MORE DAYS) AND WITHIN 24 HOURS AFTER THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER, AND AT LEAST TWICE PER WEEK.
24. UPON CONCLUSION OF INSPECTIONS, EROSION AND SEDIMENT CONTROL MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONDITION IS IDENTIFIED.
25. TEMPORARY OR PERMANENT SOIL STABILIZATION SHALL BE ACCOMPLISHED WITHIN 15 DAYS AFTER FINAL GRADING OR EARTHWORK. PERMANENT SOIL STABILIZATION SHALL REPLACE TEMPORARY STABILIZATION AS SOON AS PRACTICABLE. PERMANENT SOIL STABILIZATION SHALL INCLUDE SEEDING AND MULCHING. MULCH MATERIALS SHALL CONSIST OF HAY OR STRAW AT THE APPROPRIATE RATE OF 75 POUNDS PER 1000 SQUARE FEET, HELD IN PLACE BY THE USE OF A MULCH BINDER.

PROJECT SPECIFIC NOTES:

26. THE LOCATION AND CLOSE PROXIMITY OF THIS PROJECT TO EXISTING STRUCTURES AND INFRASTRUCTURE MAKES CONSTRUCTION OF THE SEWER LINE COMPLICATED. IT IS EXPECTED THAT THE CONTRACTOR HAS FAMILIARIZED THEMSELVES WITH THE PROJECT AND HAS INCORPORATED EACH POTENTIAL CONFLICT IN THEIR BID.
27. THE SECTION OF CONSTRUCTION THAT IS IN EXTREMELY CLOSE PROXIMITY TO THE EXISTING HOUSE LOCATION ON 091H A 001.00 SHALL BE INSTALLED USING FLOWABLE FILL AS SHOWN IN THE PLANS. THIS SECTION ALSO REQUIRES A SHORING SUBMITTAL TO BE SUBMITTED AND THE SHORING PLAN BE STAMPED BY A LICENSED ENGINEER IN THE STATE OF TN.
28. AN ACCESS ROAD WILL BE REQUIRED TO ALLOW TRAFFIC ALONG SUNSET DR & LAKESIDE DR. THIS ACCESS DRIVE IS SHOWN ON THE PLANS AND ALL TRAFFIC CONTROL MEASURES, INCLUDING: DELINEATION, WARNING SIGNS, FLAGGING, TEMPORARY GRAVEL, CULVERTS, & RESTORATION SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
29. SEVERAL TREES MUST BE REMOVED PRIOR TO CONSTRUCTION IMPROVEMENTS. THESE ITEMS SHALL BE REFLECTED IN THE BID ITEMS IN THE PLANS. ANY TREES DAMAGED DURING CONSTRUCTION, NOT DENOTED FOR REPLACEMENT, SHALL BE REPLACED BY THE CONTRACTOR WITH NO ADDITIONAL COST.
30. THERE IS A STORAGE BUILDING THAT SHALL BE DEMOLISHED & REMOVED. ALL ITEMS IN IT SHALL BE REMOVED AS WELL.
31. THERE IS A CARPORT THAT SHALL BE RELOCATED & ALL ITEMS IN THE CARPORT REMOVED AND DISPOSED OF.
32. THERE IS A SECTION OF SMALL MATS / TREES / OLD BRUSH & EXISTING CONCRETE ROCK THAT SHALL BE REMOVED, GRADED TO PROMOTE POSITIVE DRAINAGE & RESEEDED WITH SEED & STRAW.

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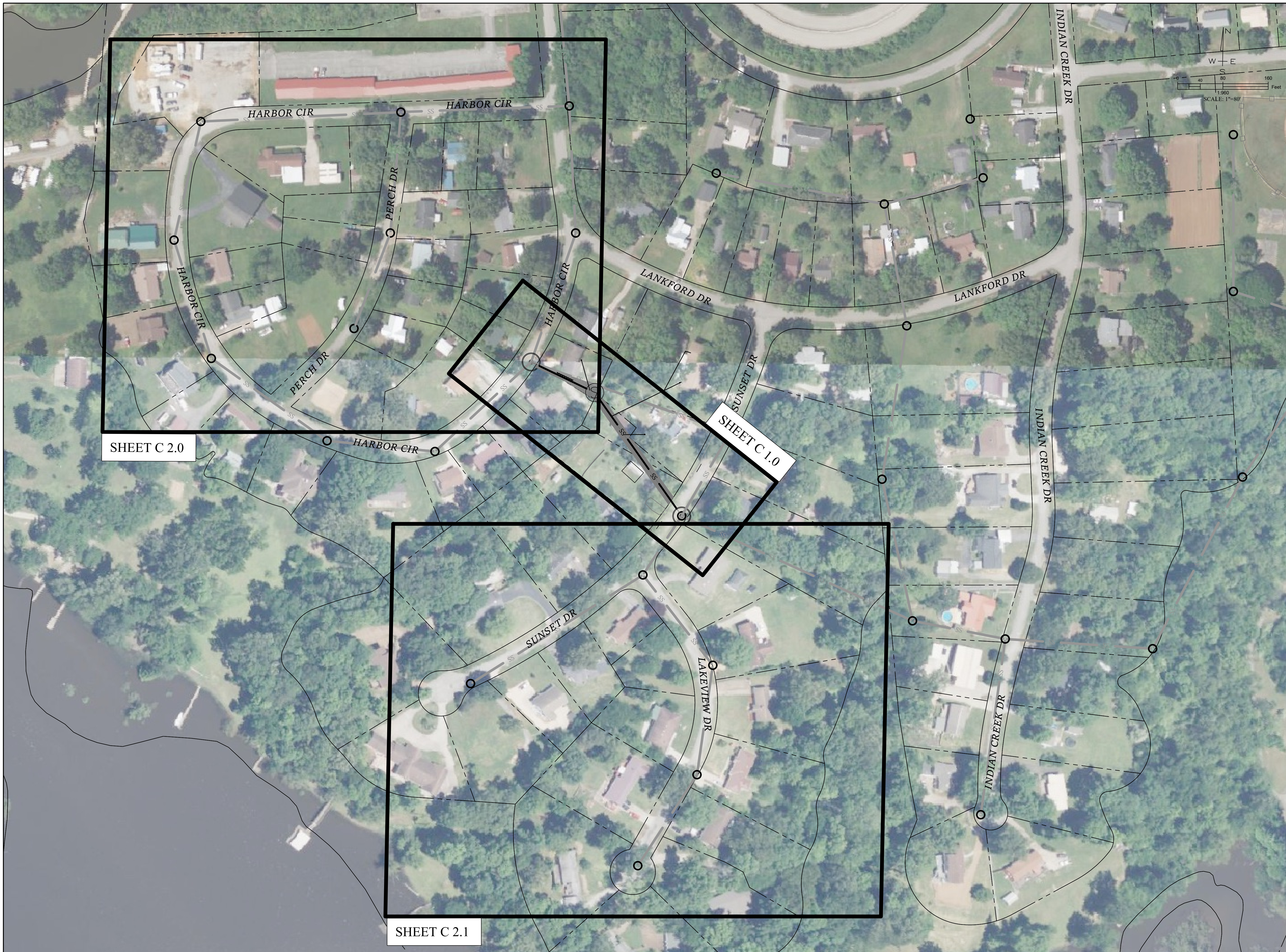
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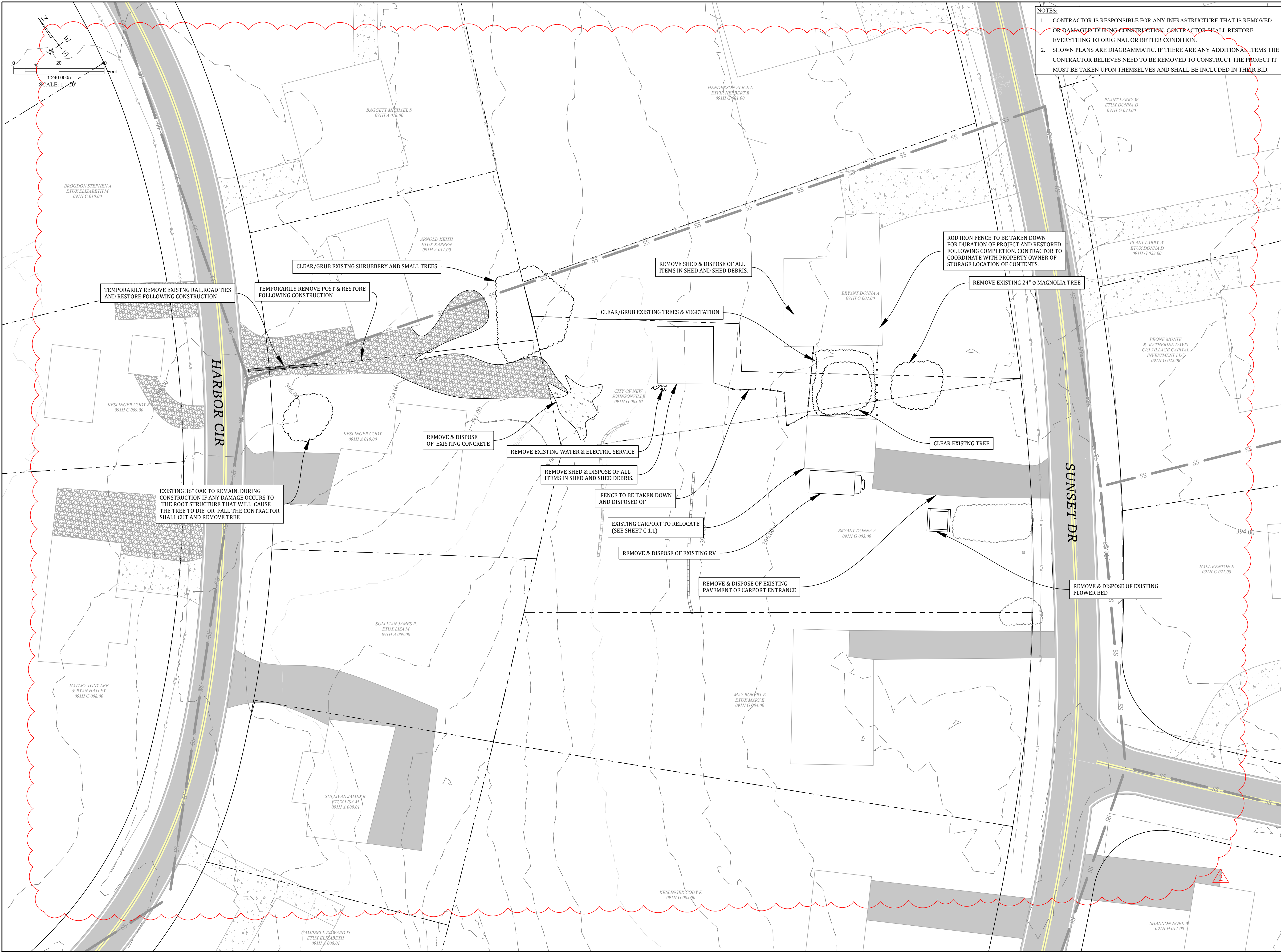
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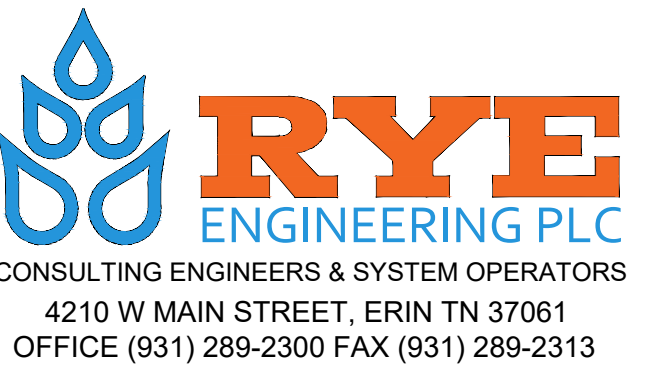
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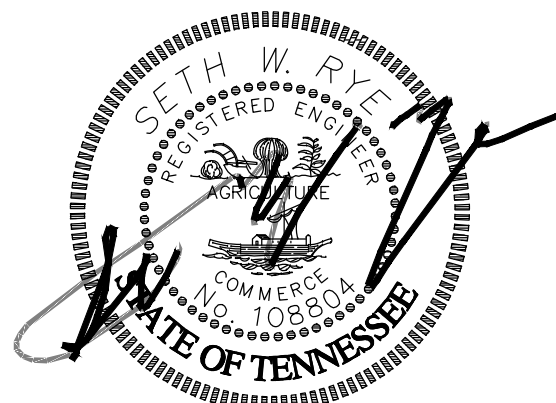


NOTES:
 1. CONTRACTOR IS RESPONSIBLE FOR ANY INFRASTRUCTURE THAT IS REMOVED OR DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL RESTORE EVERYTHING TO ORIGINAL OR BETTER CONDITION.
 2. SHOWN PLANS ARE DIAGRAMMATIC. IF THERE ARE ANY ADDITIONAL ITEMS THE CONTRACTOR BELIEVES NEED TO BE REMOVED TO CONSTRUCT THE PROJECT IT MUST BE TAKEN UPON THEMSELVES AND SHALL BE INCLUDED IN THEIR BID.



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LEGEND

--- EXISTING PROPERTY LINE



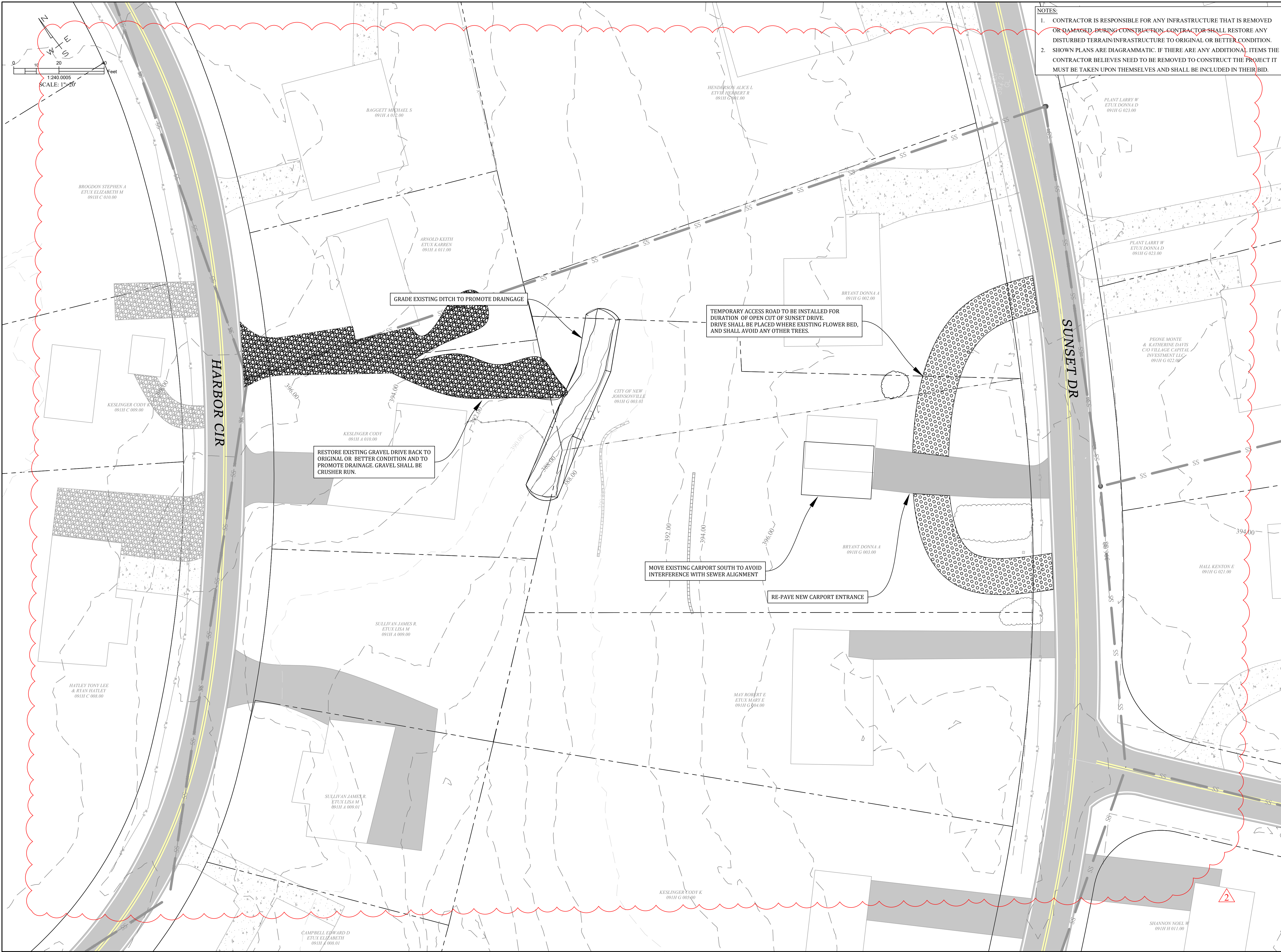
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DEMOLITION PLAN

C 1.0



NOTES:
 1. CONTRACTOR IS RESPONSIBLE FOR ANY INFRASTRUCTURE THAT IS REMOVED OR DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL RESTORE ANY DISTURBED TERRAIN/INFRASTRUCTURE TO ORIGINAL OR BETTER CONDITION.
 2. SHOWN PLANS ARE DIAGRAMMATIC. IF THERE ARE ANY ADDITIONAL ITEMS THE CONTRACTOR BELIEVES NEED TO BE REMOVED TO CONSTRUCT THE PROJECT IT MUST BE TAKEN UPON THEMSELVES AND SHALL BE INCLUDED IN THEIR BID.



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LEGEND

--- EXISTING PROPERTY LINE

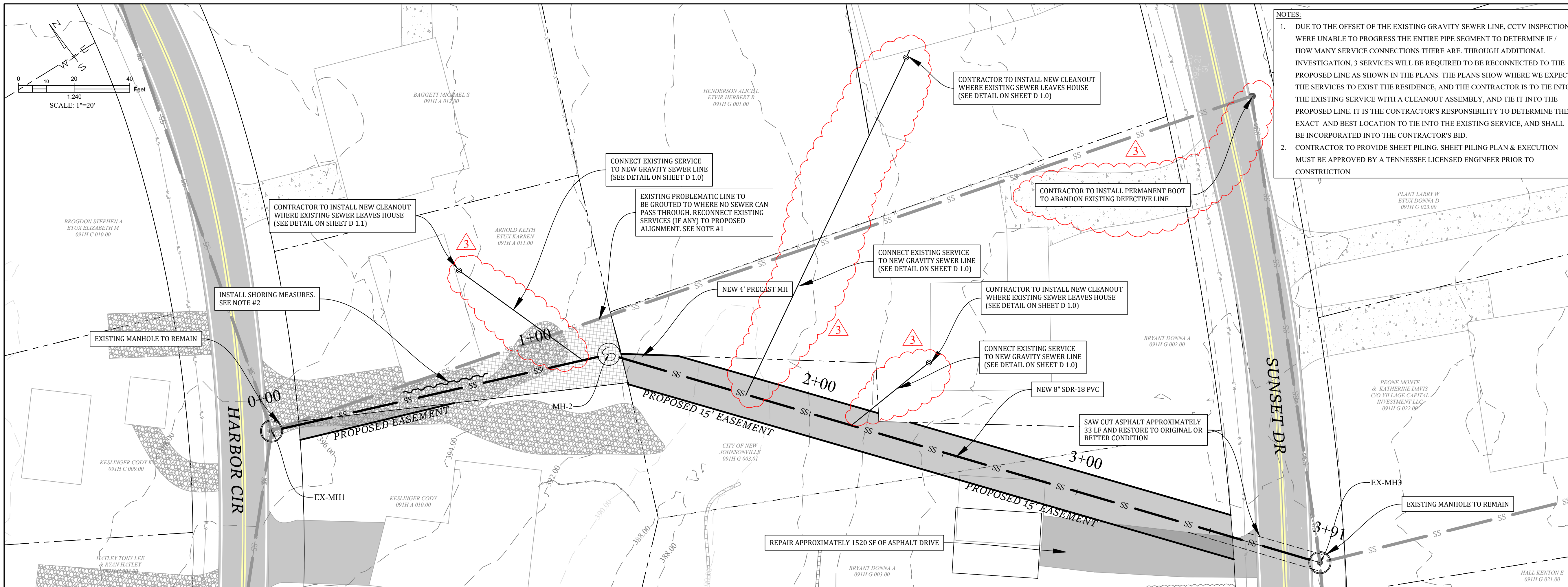


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SITE IMPROVEMENT PLAN

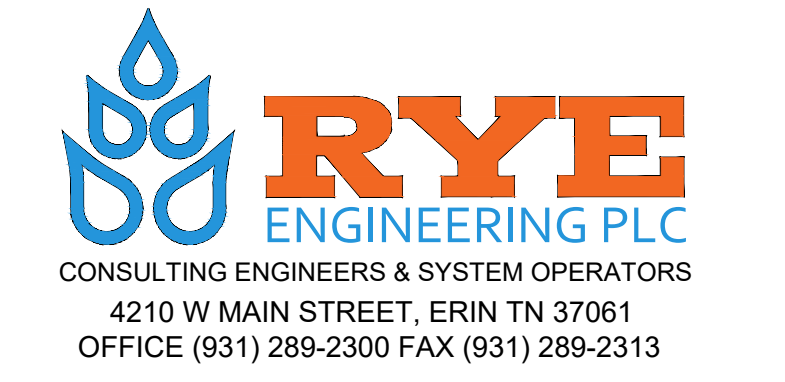
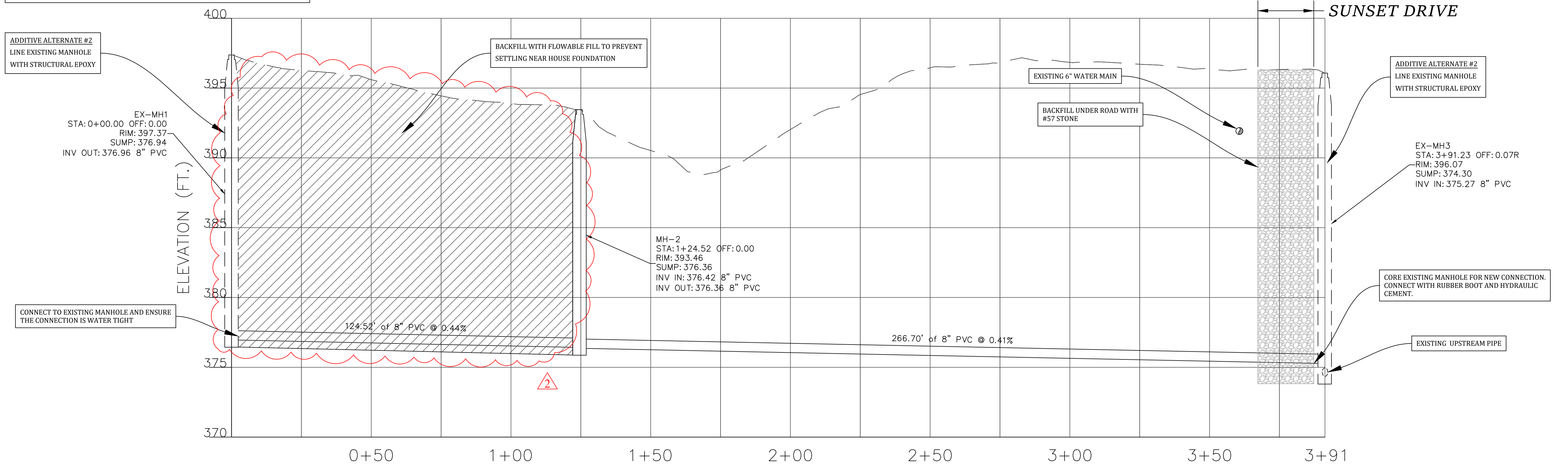


NOTES:

1. DUE TO THE OFFSET OF THE EXISTING GRAVITY SEWER LINE, CCTV INSPECTIONS WERE UNABLE TO PROGRESS THE ENTIRE PIPE SEGMENT TO DETERMINE IF / HOW MANY SERVICE CONNECTIONS THERE ARE. THROUGH ADDITIONAL INVESTIGATION, 3 SERVICES WILL BE REQUIRED TO BE RECONNECTED TO THE PROPOSED LINE AS SHOWN IN THE PLANS. THE PLANS SHOW WHERE WE EXPECT THE SERVICES TO EXIST THE RESIDENCE, AND THE CONTRACTOR IS TO TIE INTO THE EXISTING SERVICE WITH A CLEANOUT ASSEMBLY, AND TIE IT INTO THE PROPOSED LINE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT AND BEST LOCATION TO TIE INTO THE EXISTING SERVICE, AND SHALL BE INCORPORATED INTO THE CONTRACTOR'S BID.
2. CONTRACTOR TO PROVIDE SHEET PILING, SHEET PILING PLAN & EXECUTION MUST BE APPROVED BY A TENNESSEE LICENSED ENGINEER PRIOR TO CONSTRUCTION

NOTES:

1. ANY SECTION OF NEW SEWER SHALL BE BACKFILLED COMPLETELY WITH #57 STONE WHERE UNDERNEATH DRIVES/ROADS.
2. OFFSET CORE DRILL AS NEEDED TO AVOID CONTACT WITH EXISTING LINE



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LEGEND

- EXISTING PROPERTY LINE
- SS --- PROPOSED 8" SDR-26 SEWER
- EXISTING MANHOLE
- PERMANENT 15' EASEMENT
- Ⓢ NEW 4' PRECAST MANHOLE
- EXISTING GRAVITY SEWER
- ▨ EXISTING SEWER EASEMENT



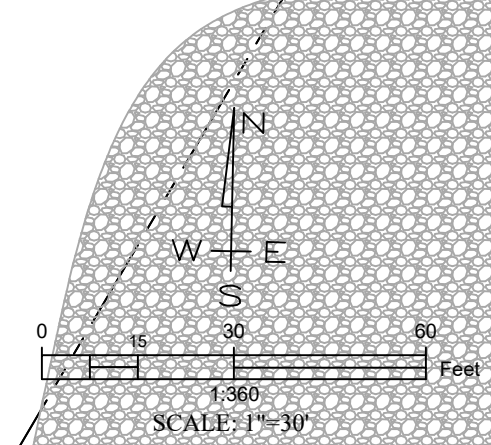
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GRAVITY SEWER POINT REPAIR

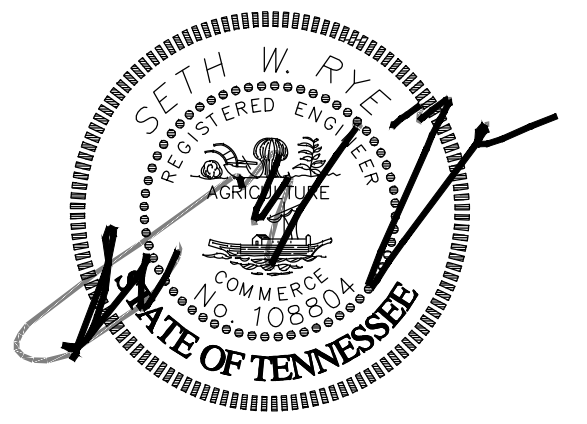
C 1.2



CIPP SCHEDULE				
PIPE SEGMENT	DIAMETER	SLOPE	EXISTING PIPE MATERIAL	DISTANCE
A1-A2	6"	0.55%	ASBESTOS	180 - LF

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LEGEND

- EXISTING PROPERTY LINE
- EXISTING SEWER LINE (CIPP LINING PERFORMED IN 2022)
- EXISTING MANHOLE
- PROPOSED CIPP LINING



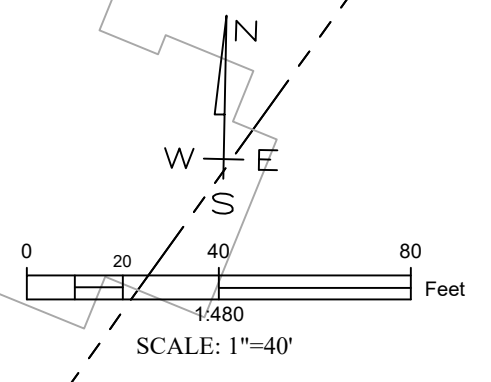
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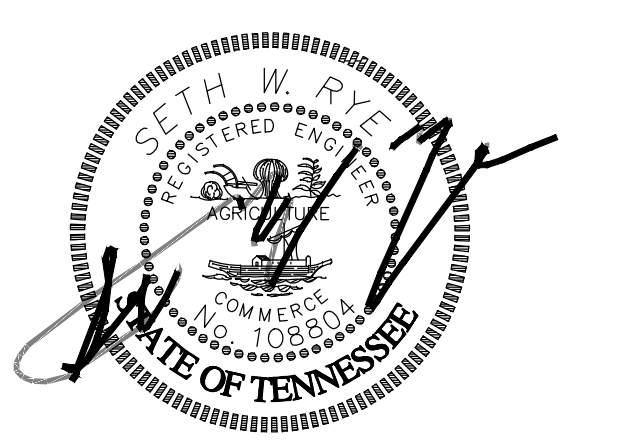
**ALTERNATE #1
GRAVITY SEWER CIPP LINING**

C 2.0



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- EXISTING PROPERTY LINE
- EXISTING SEWER LINES
- EXISTING MANHOLE
- PROPOSED CIPP LINING



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CIPP SCHEDULE				
PIPE SEGMENT	DIAMETER	SLOPE	EXISTING PIPE MATERIAL	DISTANCE
B1-B2	8"	1.38%	CLAY	360 - LF
B3-B4	8"	3.22%	CLAY	450 - LF
B5-B6	8"	0.52%	CLAY	192 - LF
B6-B7	8"	0.51%	CLAY	195 - LF

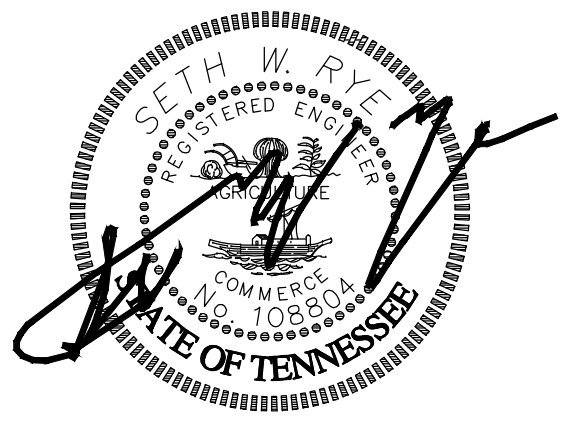
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**ALTERNATE #1
GRAVITY SEWER CIPP LINING**

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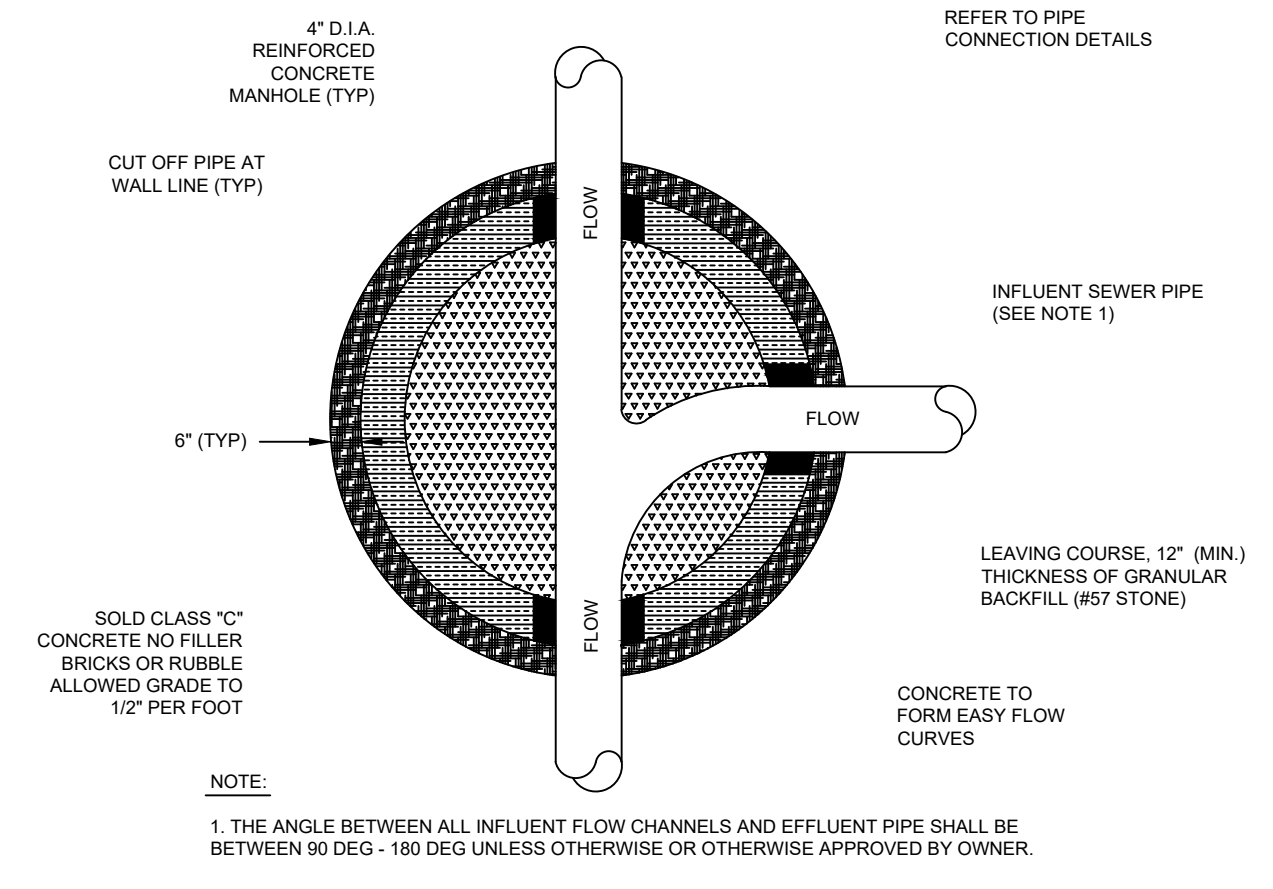
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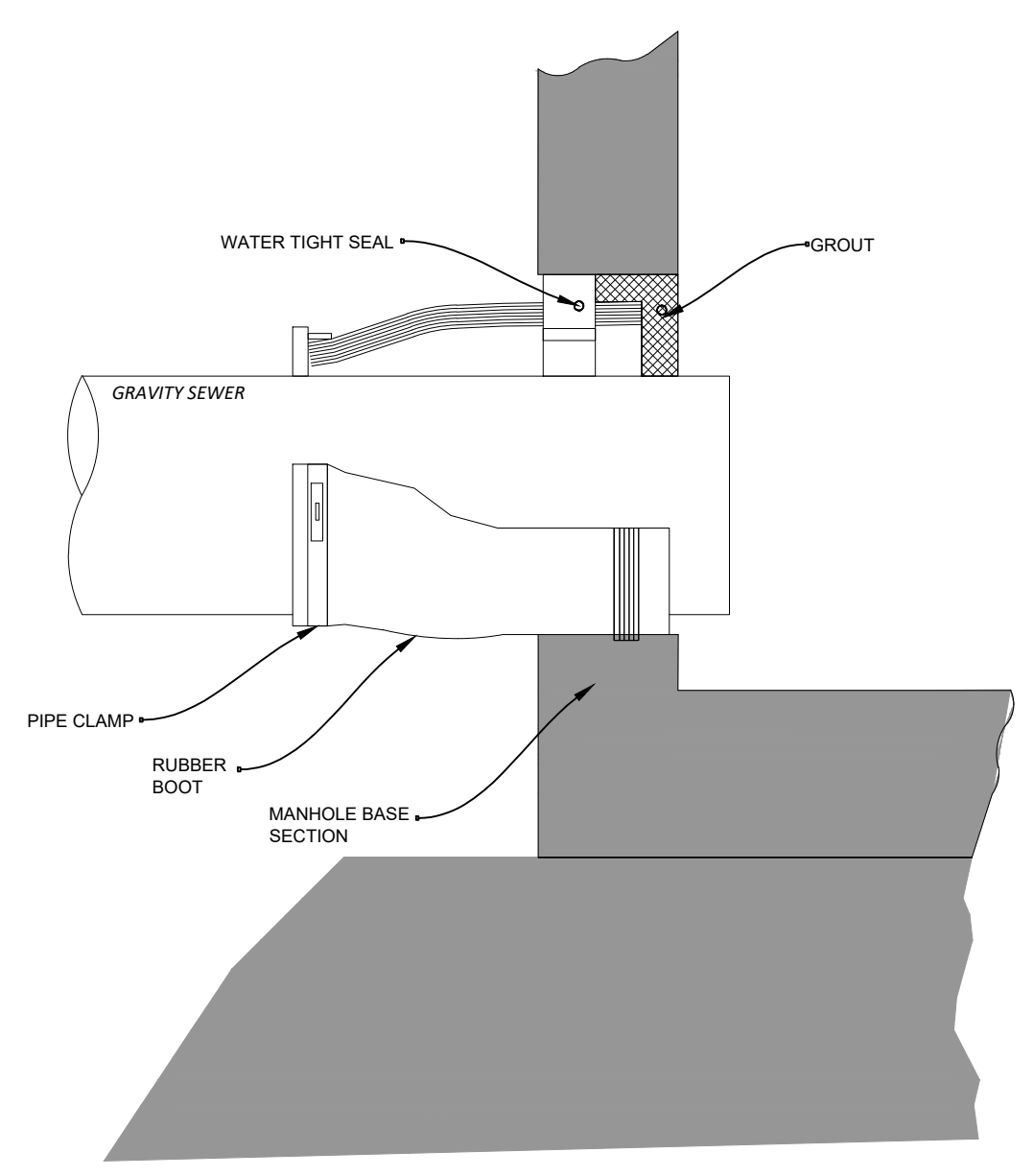


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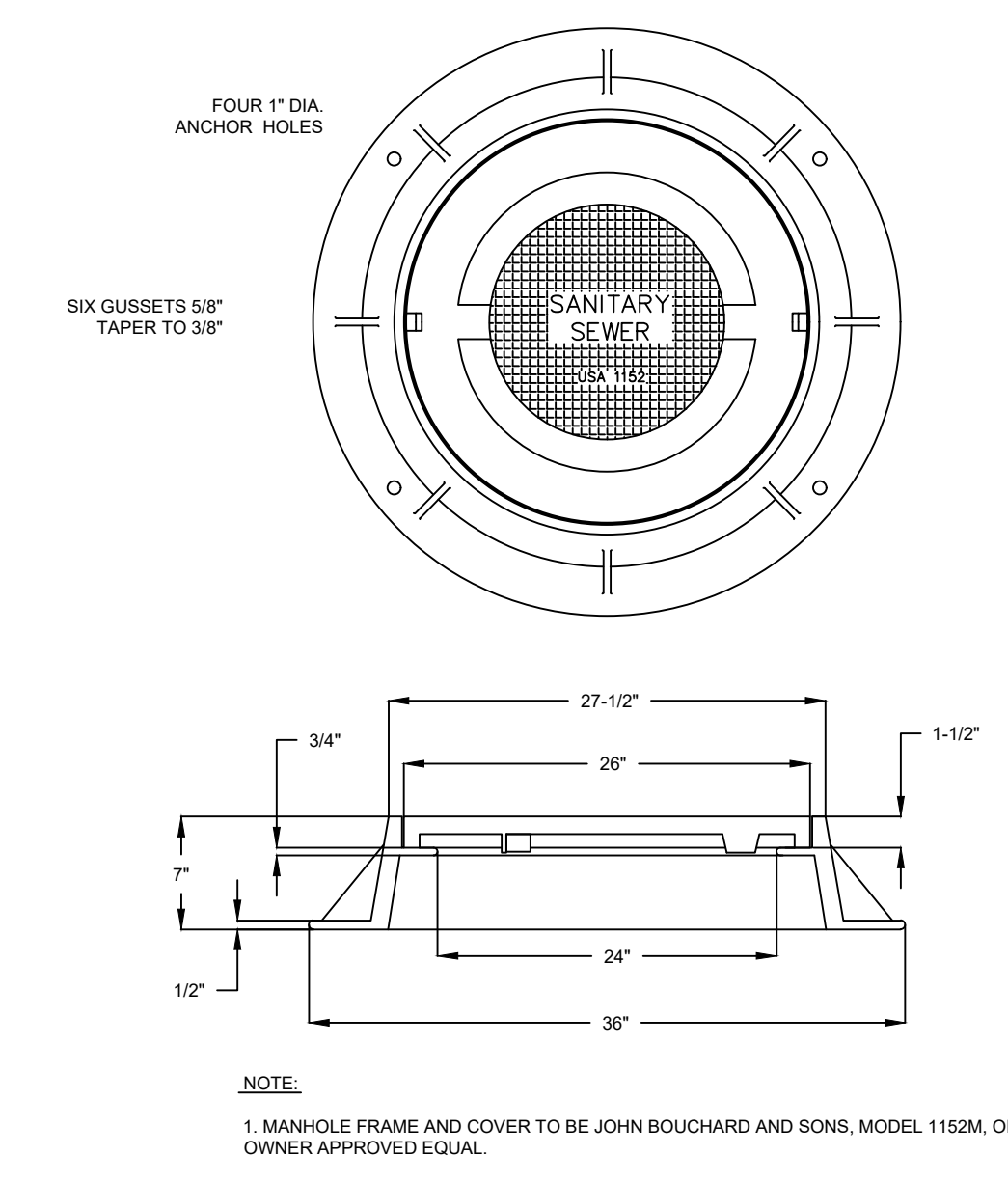
**STANDARD MANHOLE
PLAN VIEW**



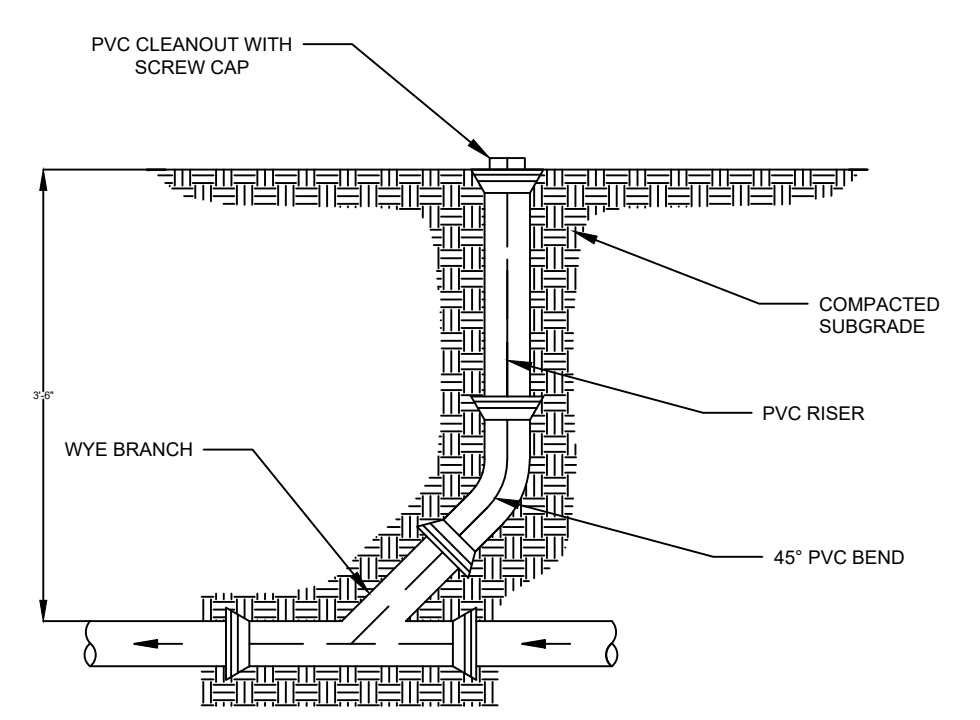
**RUBBER BOOT FOR PIPE
CONNECTION AT MANHOLE**



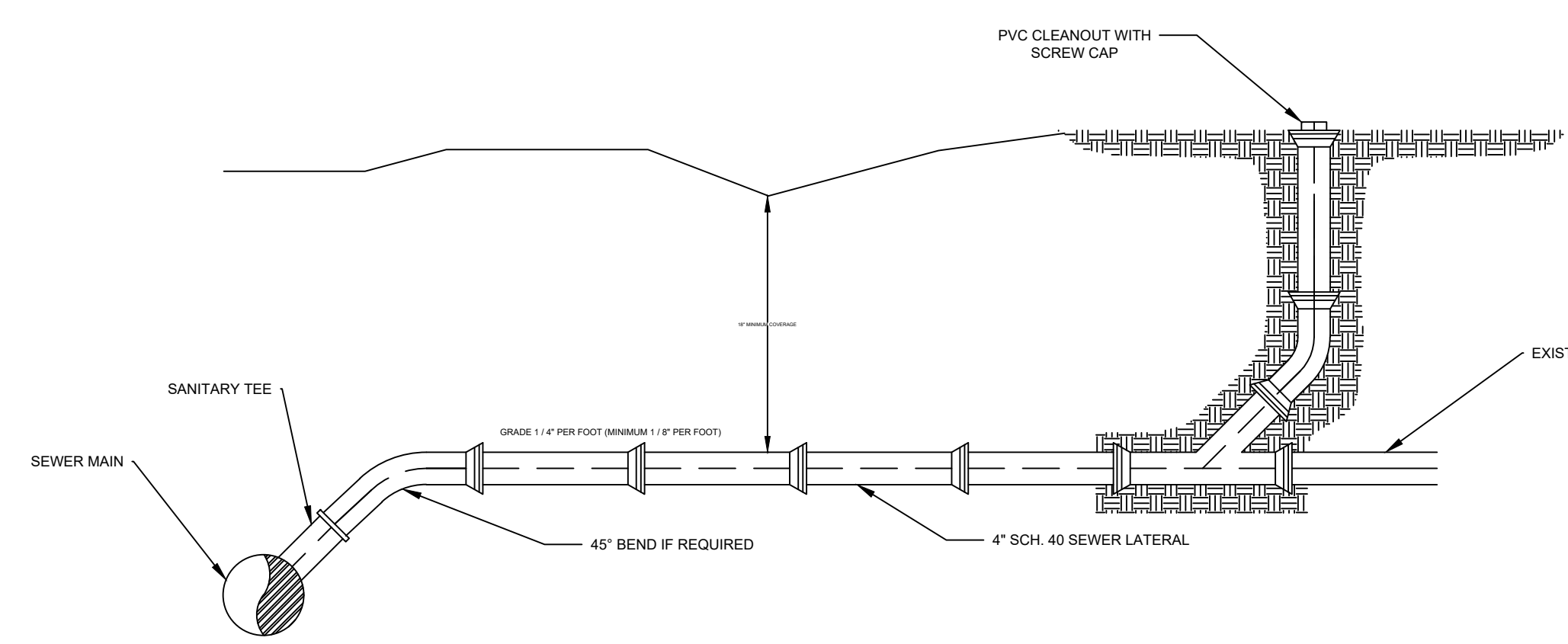
**MANHOLE FRAME AND
COVER (CASTING)**



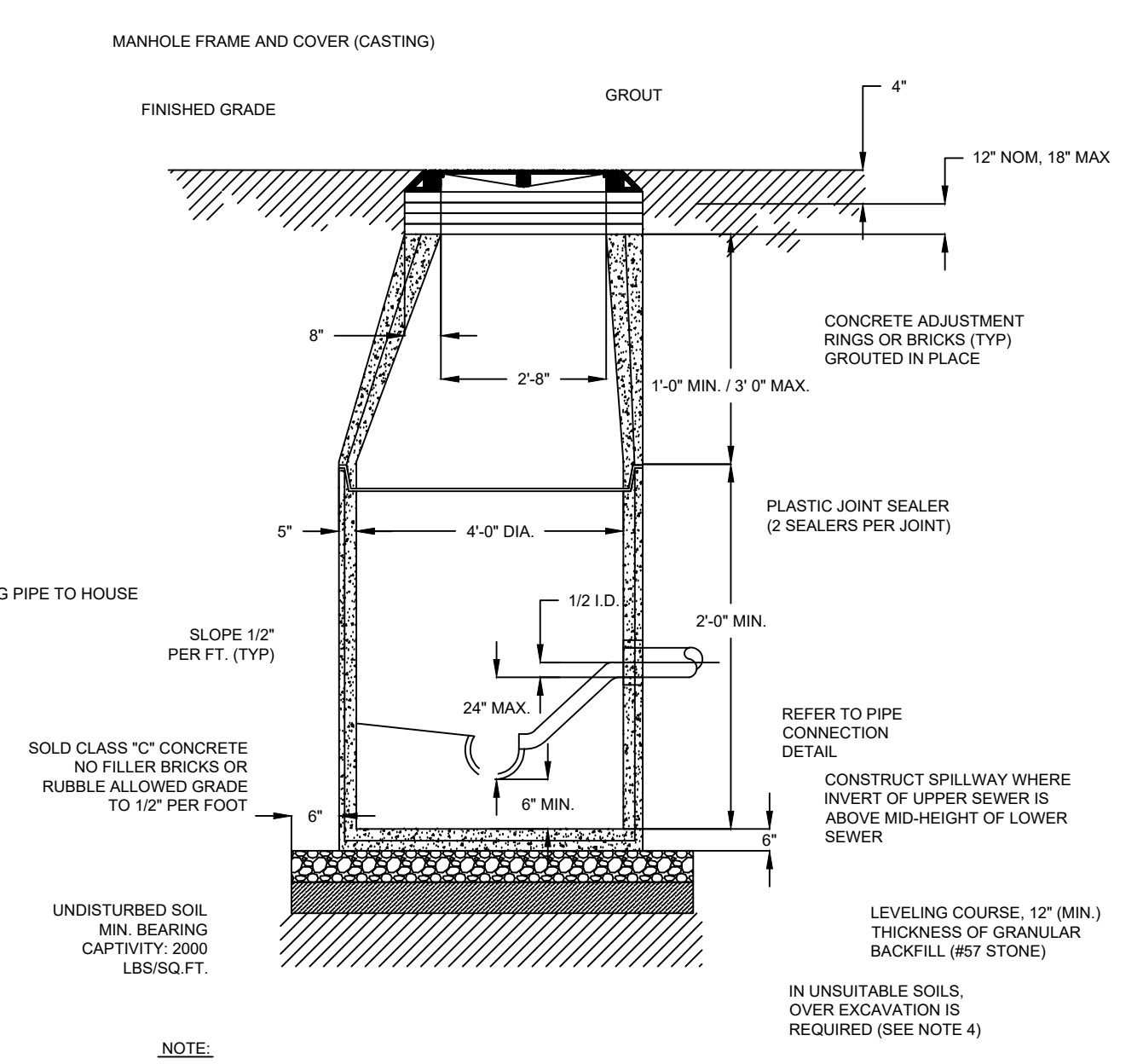
**STANDARD CLEANOUT
SECTION VIEW**



**STANDARD LATERAL
SECTION VIEW**



**STANDARD MANHOLE
SECTION VIEW**



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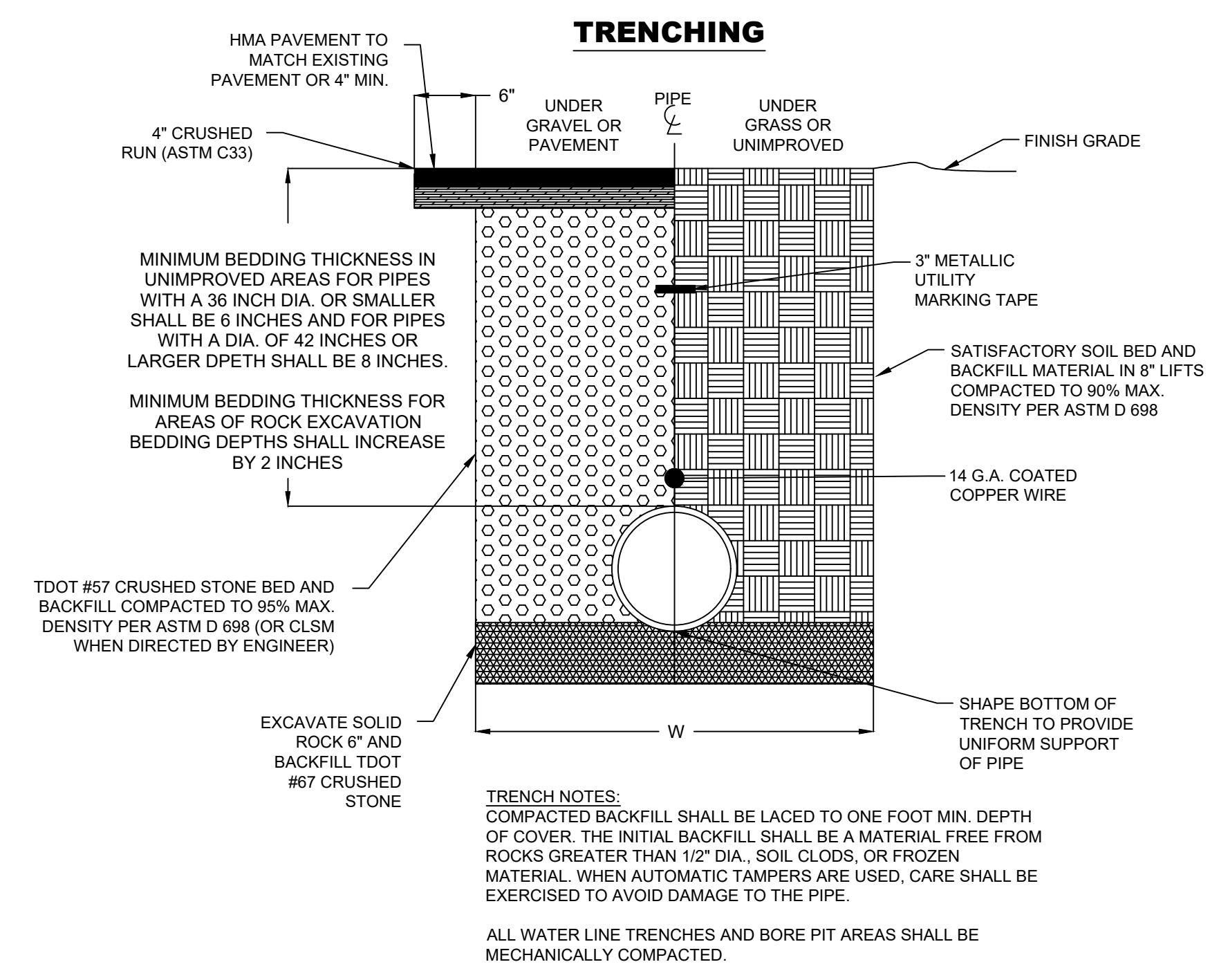
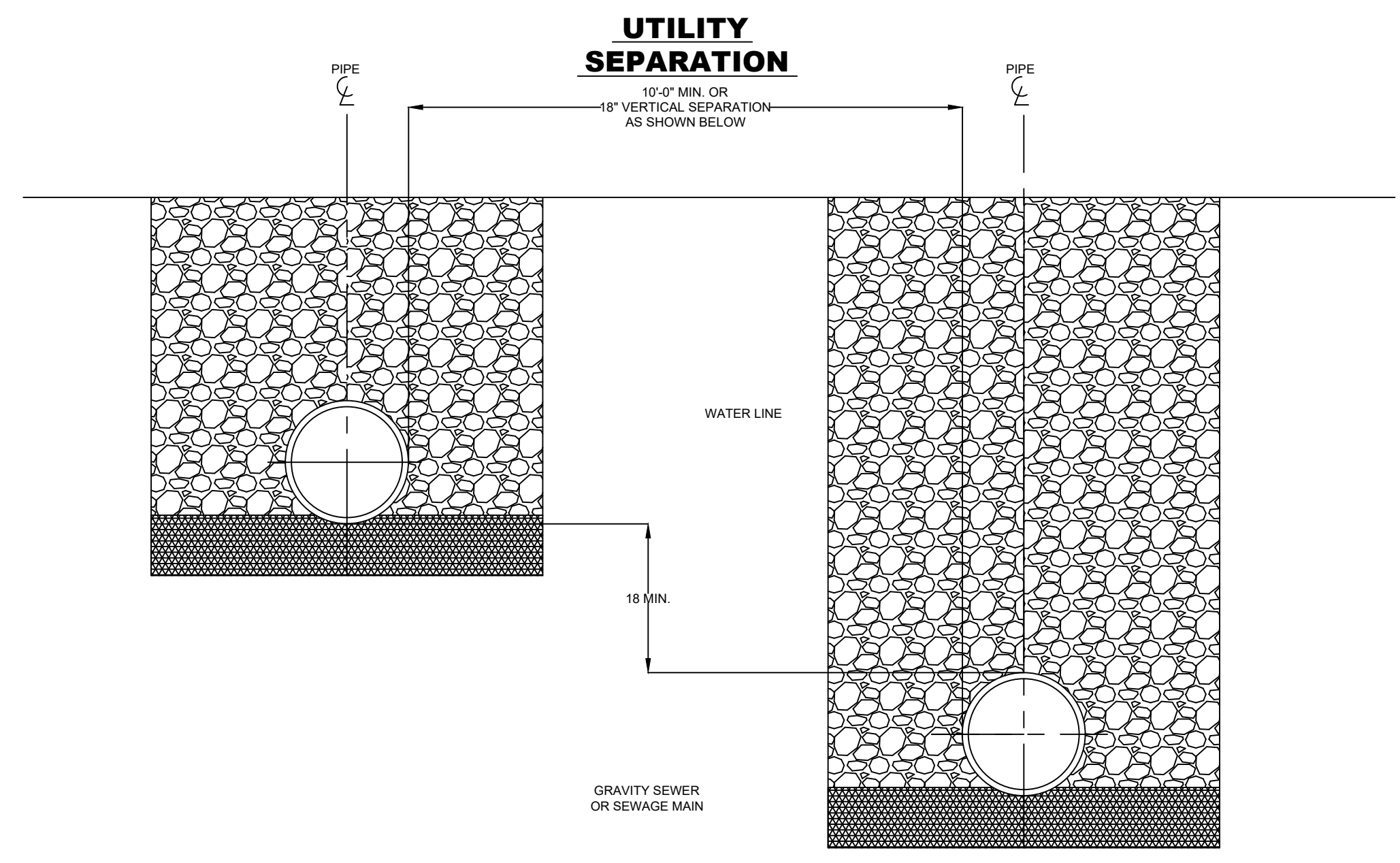
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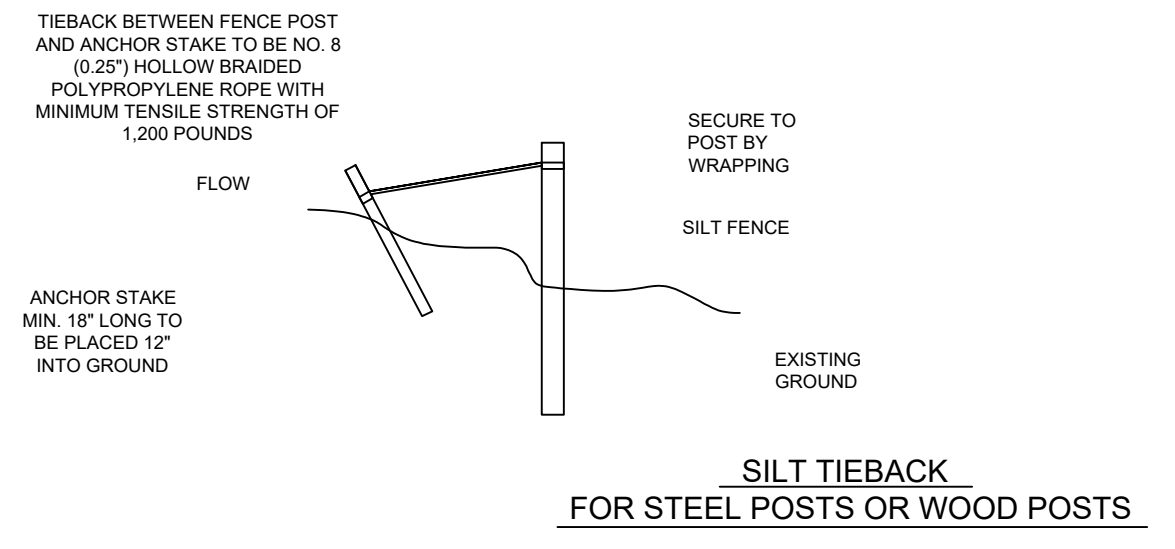
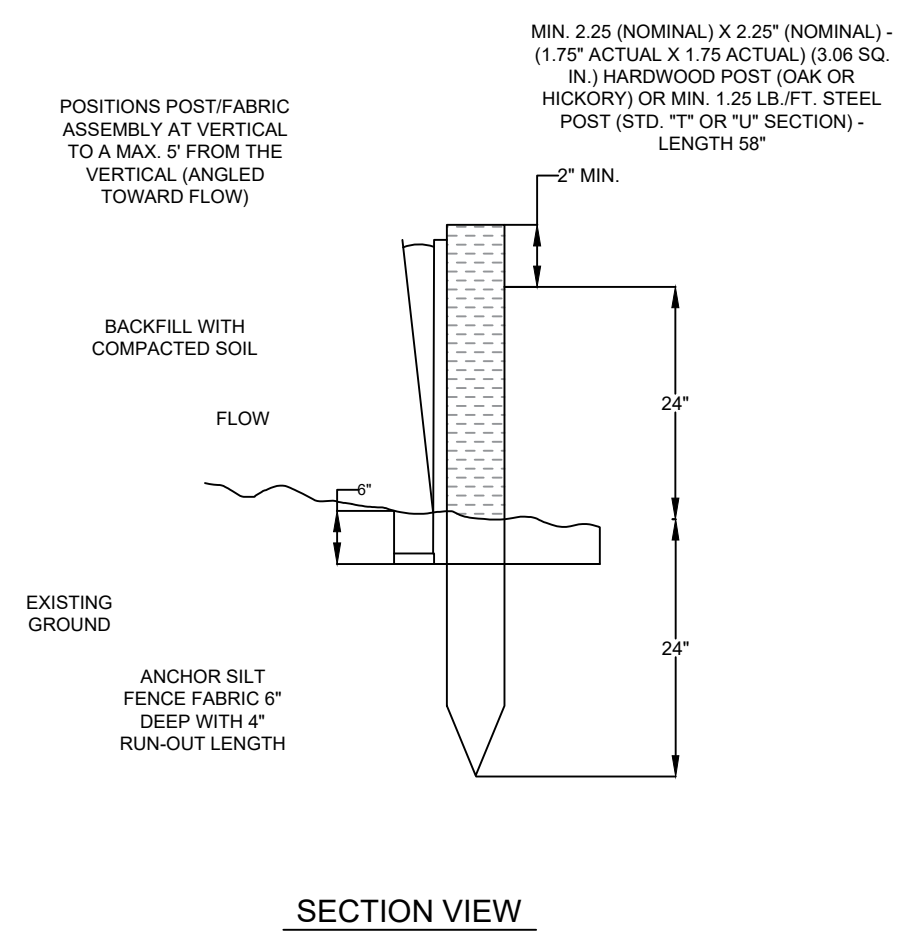
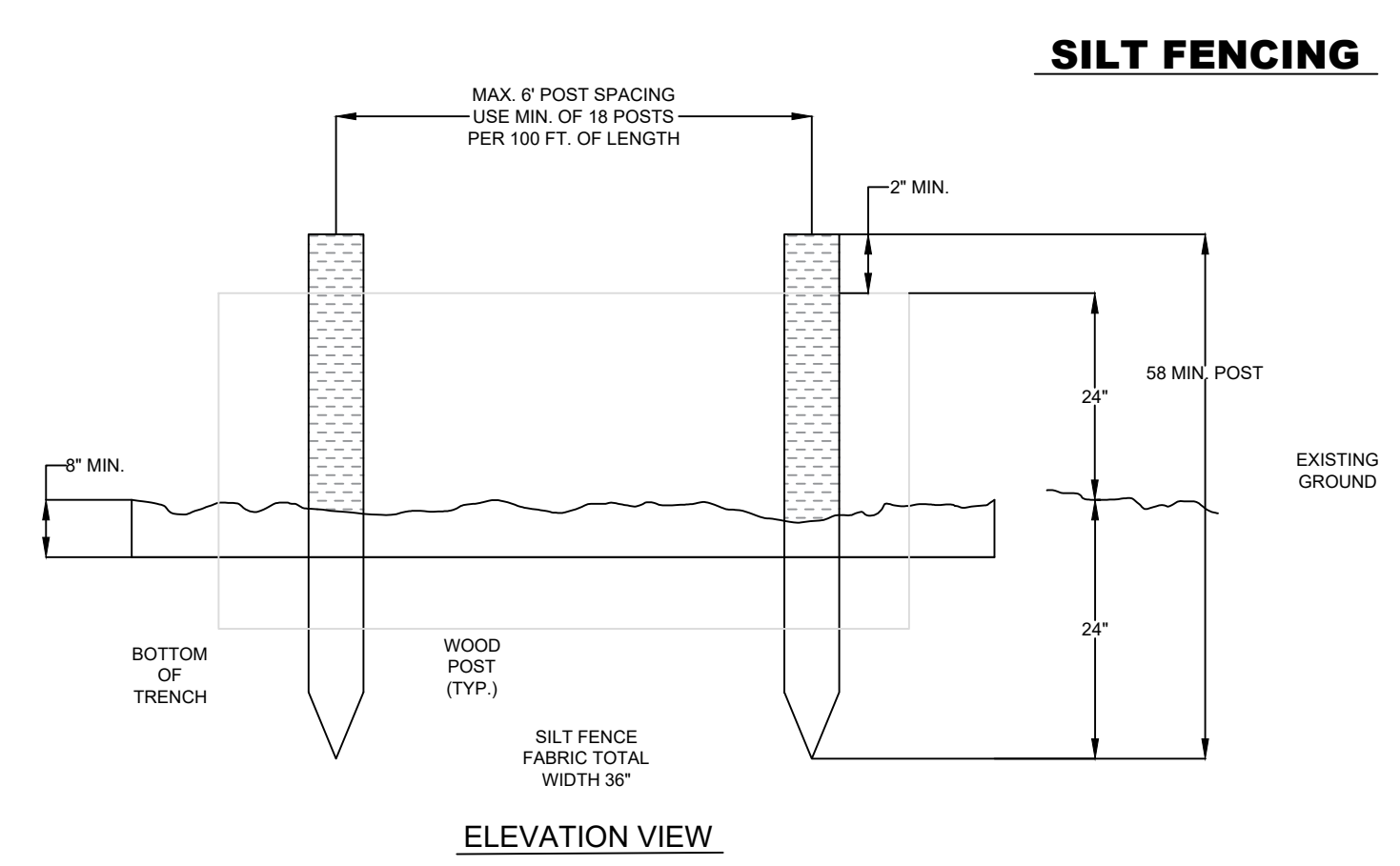
DETAILS

D 1.1



PIPE NOMINAL DIAMETER	TRENCH WIDTH (W)	
	MIN.	MAX.
4"	4"	48"
6"	6"	48"
8"	8"	48"
10"	10"	48"
12"	12"	48"
16"	16"	48"
18"	18"	54"
24"	24"	60"
30"	30"	74"
36"	36"	80"
42"	42"	86"
48"	48"	92"
54"	54"	98"
60"	60"	104"
72"	72"	116"

W= TRENCH WIDTH AT BOTTOM OF PIPE. TRENCH SIDE SLOPES SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS



DETAILS

D 1.1