

SANTA ROSA COUNTY

AREA MAP 

SOUNDSIDE SEPTIC TANK ELIMINATION PROGRAM - PHASE B

CITY OF GULF BREEZE
SANTA ROSA COUNTY, FLORIDA



BDI Project No. 20410.46
FEBRUARY 2022

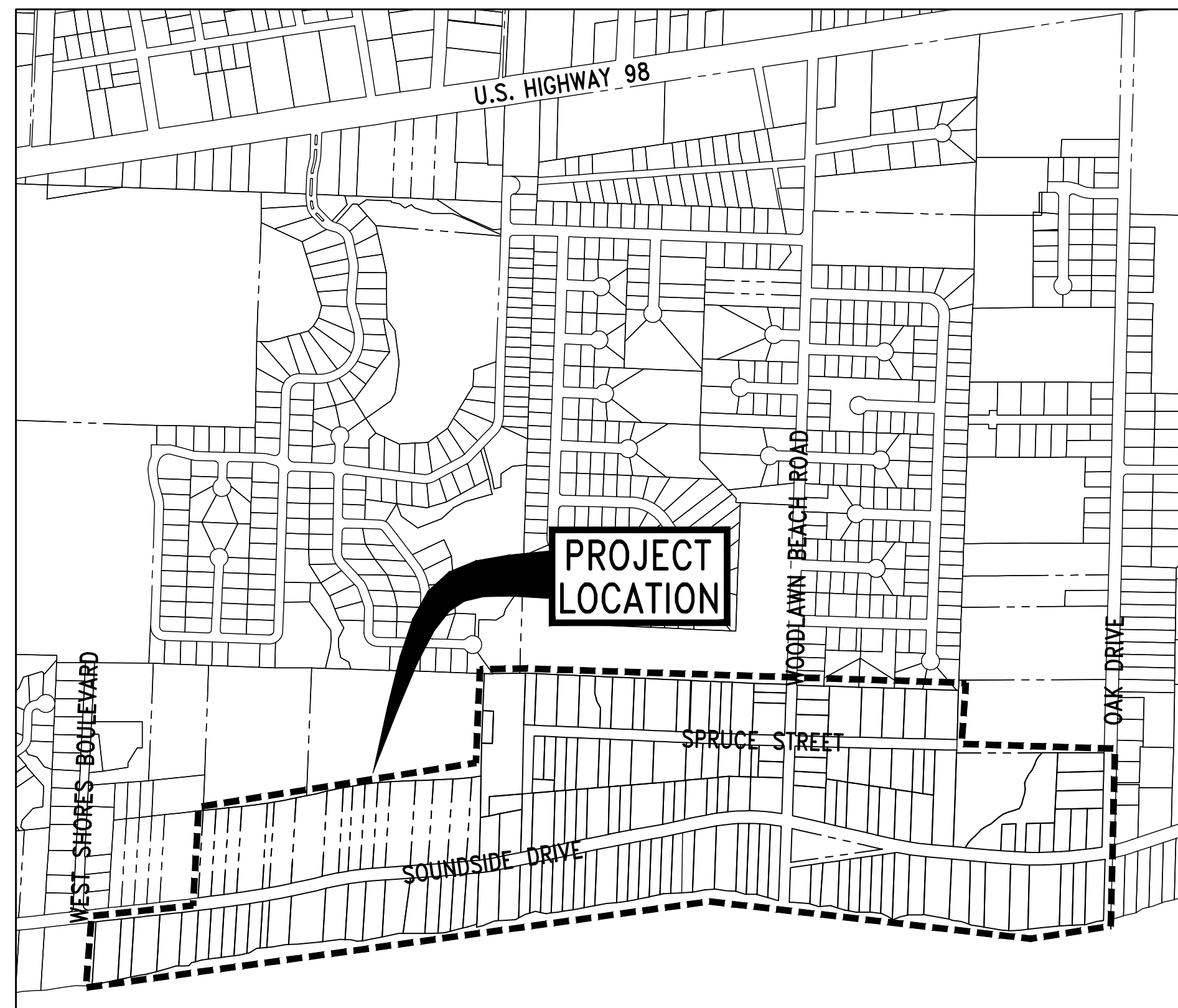
PREPARED BY

 **BASKERVILLE-DONOVAN, INC.**
Innovative Infrastructure Solutions

449 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9661
ENGINEERING BUSINESS: EB-0000340

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VICINITY MAP 

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF ALL GOVERNING AUTHORITIES INCLUDING, BUT NOT LIMITED TO, THE LATEST FDOT STANDARDS, THE LATEST FDEP STANDARDS (INCLUDING THOSE FOR SEPARATION), AND CITY OF GULF BREEZE DESIGN AND CONSTRUCTION STANDARDS.
2. THE CITY SHALL OBTAIN AN FDEP PERMIT FOR THE CONSTRUCTION OF A SANITARY COLLECTION SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NPDES PERMITS FOR ALL GROUND WATER DISCHARGE, ALL COUNTY RIGHT-OF-WAY PERMITS, AND ANY BUILDING PERMITS ASSOCIATED WITH THE CONSTRUCTION OF THE LIFT STATION.
3. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
4. THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE BASED ON INFORMATION PROVIDED BY THE UTILITIES AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGED UTILITIES.
5. THE CONTRACTOR SHALL NOTIFY THE SUNSHINE STATE ONE CALL OF FLORIDA, SUPERINTENDENTS OF THE WATER, SANITARY SEWER, GAS, TELEPHONE, CABLE TELEVISION AND POWER COMPANIES 14 DAYS IN ADVANCE THAT HE INTENDS TO START WORK IN A SPECIFIC AREA. THE OWNER DISCLAIMS ANY RESPONSIBILITY FOR THE SUPPORT AND PROTECTION OF SEWERS, DRAINS, WATER PIPES, GAS PIPES, CONDUITS OF ANY KIND, UTILITIES OR OTHER STRUCTURES OWNED BY THE CITY, COUNTY, STATE OR BY PRIVATE OR PUBLIC UTILITIES OCCUPYING ANY STREET, ALLEY, PUBLIC PLACE OR RIGHT-OF-WAY.
6. PROPERTY OBSTRUCTIONS WHICH ARE TO REMAIN IN PLACE, SUCH AS BUILDINGS, SEWER DRAINS, WATER OR GAS PIPES, CONDUITS, CABLES, POLES, WALLS, POSTS, ETC., ARE TO BE CAREFULLY PROTECTED. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO REMOVING ANY OBSTRUCTIONS NOT SPECIFICALLY NOTED ON THE PLANS.
7. RELOCATION OF OBSTRUCTIONS OWNED BY PRIVATE PROPERTY OWNERS SUCH AS MAIL BOXES AND FENCING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WHO MUST COORDINATE WITH THE PROPERTY OWNER.
8. CONTRACTOR SHALL MAINTAIN TRAFFIC CONTROL IN ACCORDANCE WITH FDOT STANDARD INDEX 600 (LATEST EDITION), FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND CITY OF GULF BREEZE REQUIREMENTS.
9. THE CONTRACTOR SHALL PLACE AND MAINTAIN ADEQUATE BARRICADES, CONSTRUCTION SIGNS, FLASHING LIGHTS, TORCHES, RED LANTERNS AND GUARDS DURING PROGRESS OF CONSTRUCTION WORK IN ACCORDANCE WITH APPLICABLE FDOT MUTCD INDEX.
10. THE CONTRACTOR SHALL CONDUCT ALL WORK WITHIN SANTA ROSA COUNTY RIGHT-OF-WAY IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION) AND THE FDOT UTILITY ACCOMMODATION GUIDE (LATEST EDITION). CUTTING OF PAVEMENT CANNOT BE DONE WITHOUT APPROVAL OF COUNTY ENGINEER.
11. ALL ROADWAY, SIDEWALKS, CURBS AND BASE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE CITY OF GULF BREEZE AND FDOT STANDARD SPECIFICATIONS (LATEST EDITION). MATCH EXISTING CURB TYPE.
12. ALL EXCESS FILL FROM SITE SHALL BE STOCKPILED BY THE CONTRACTOR IN A LOCATION DETERMINED BY THE OWNER OR THE OWNER'S REPRESENTATIVE AND THE ENGINEER.
13. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR CONTROL OF ALL EROSION AND SEDIMENTATION.
14. CONSTRUCTION AROUND TREES SHALL BE DONE IN A MANNER TO CAUSE MINIMUM DAMAGE TO THE TREE AND ITS ROOT SYSTEM.
15. PRIOR TO BID SUBMISSION, CONTRACTOR SHALL VISIT SITE TO FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS AND THE EXTENT OF CLEARING AND GRUBBING REQUIRED.
16. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
17. CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR THE LAYOUT OF THE WORK. ANY DEVIATION NOT NOTED ON THESE PLANS FROM THE PRESCRIBED ALIGNMENT, NECESSARY TO AVOID CONFLICTS, SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER OR OWNER. ALL DEVIATIONS SHALL BE DOCUMENTED BY THE CONTRACTOR ON THE "AS-BUILT" DRAWINGS. ALL MEASUREMENTS ARE TAKEN FROM THE CENTERLINE OF THE PIPE.
18. CONTRACTOR TO COORDINATE WITH RESPONSIBLE UTILITY FOR PROTECTION/HOLDING OF UTILITY POLES, GUY WIRES AND GUY ANCHORS IN AREAS OF CONSTRUCTION.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR AND COMPLY WITH ANY TESTING REQUIRED BY THE LOCAL GOVERNING AGENCY IN ADDITION TO THE TESTING REQUIREMENTS OUTLINED IN THE SPECIFICATIONS.
19. THE ENGINEER AND OWNER'S REPRESENTATIVE SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF THE PRESSURE AND LEAKAGE TEST. THE PRESSURE TEST SHALL BE PERFORMED IN ACCORDANCE WITH AWWA STANDARDS.
20. CONTRACTOR TO MAINTAIN ACCESS TO ALL PROPERTIES WITHIN PROJECT AREA AT ALL TIMES.
21. MINIMUM GROUND COVER OVER PROPOSED SEWER IS 36" UNLESS OTHERWISE NOTED OR APPROVED.
22. MAINTENANCE OF EXISTING AND SETTING OF NEW HORIZONTAL AND VERTICAL CONTROLS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

ABBREVIATION LEGEND

# & @	NUMBER AND AT	MAX MES MFR MH MIN MJ NTS NO	MAXIMUM MITERED END SECTION MANUFACTURER MANHOLE MINIMUM MECHANICAL JOINT NOT TO SCALE NUMBER
APPROX ARV AVE	APPROXIMATE (LY) AIR RELEASE VALVE AVENUE		
B/BLDG BM	BOTTOM OF BUILDING BENCHMARK	OC OD OHE	ON CENTER OUTSIDE DIAMETER OVERHEAD ELECTRIC
CAP CLR CMP CO CONC CTR	CAPACITY CLEAR CORRUGATED METAL PIPE CLEAN OUT CONCRETE CENTER (ED)	PS PVC PVMT PW	PUMP STATION POLYVINYL CHLORIDE PIPE PAVEMENT POTABLE WATER
DEPT DI DIA DIP DSU	DEPARTMENT DUCTILE IRON DIAMETER DUCTILE IRON PIPE DOUBLE SOLID YELLOW LINE	R/W RCP RED REQ'D RT	RIGHT-OF-WAY REINFORCED CONCRETE PIPE REDUCER REQUIRED RIGHT
E ECP EL ELEC EOP EQV ERCP EX, EXIST	EAST REINFORCED CONCRETE PIPE ELEVATION ELECTRIC(AL) EDGE OF PAVEMENT EQUIVALENT ELLIPTICAL REINFORCED CONCRETE PIPE EXISTING	SAN SBW SBY SD SHT SS SSW ST STA STD	SANITARY SEWER SINGLE BROKEN WHITE LINE SINGLE BROKEN YELLOW LINE STORM DRAIN SHEET STAINLESS STEEL OR SANITARY SEWER SINGLE SOLID WHITE LINE STORM INLET STATION STANDARD
FDOT FF FH FLG FM FT	FLORIDA DEPARTMENT OF TRANSPORTATION FINISH FLOOR FIRE HYDRANT FLANGE FORCE MAIN FEET/FOOT	T/TBM TEMP TOS TOW TYP	TOP OF TEMPORARY BENCH MARK TEMPORARY TOP OF SLAB TOP OF WALL TYPICAL
GA G	GAUGE GAS	VERT VOL	VERTICAL VOLUME
H	HORIZONTAL	W W/O WM WWF	WIDTH OR WATER WITH WITHOUT WATER MAIN WELDED WIRE FABRIC
ID IN INW	INSIDE DIAMETER INCH INVERT		
L LBS LF LG LR LT	LENGTH POUNDS LINEAR FEET LONG LONG RADIUS LEFT		

23. CONTRACTOR SHALL PROVIDE TO EACH PROPERTY OWNER AND THE CITY OF GULF BREEZE 2 WEEKS WRITTEN NOTICE PRIOR TO THE START OF CONSTRUCTION ADJACENT TO, OR WITHIN, THEIR PROPERTY. NOTICE SHALL INCLUDE CONTRACTOR'S NAME, ADDRESS, PHONE NUMBER AND SITE SUPERINTENDENT'S NAME AND CELL PHONE NUMBER FOR EMERGENCY CONTACT.
24. CONTRACTOR SHALL REINSTALL/REPLACE/REPAIR ALL FENCES AND LANDSCAPING TEMPORARILY REMOVED OR DAMAGED DURING CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. VARIATIONS FROM RESTORATION TO ORIGINAL CONDITION SHALL BE APPROVED BY RESIDENT AND DOCUMENTED FOR THE CITY.
25. SEPTIC TANK/GREY WATER TANK ABANDONMENT:
 - A. CONTRACTOR SHALL OBTAIN APPROPRIATE PERMITS FROM SANTA ROSA COUNTY DEPARTMENT OF HEALTH. DOCUMENTATION OF PERMIT AND FINAL INSPECTION BY THE HEALTH DEPARTMENT SHALL BE PROVIDED TO THE CITY.
 - B. CONTRACTOR SHALL HAVE EACH SEPTIC TANK PUMPED OUT AND CONTENTS PROPERLY DISPOSED OF.
 - C. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF SEPTIC TANK TOP SECTIONS.
 - D. CONTRACTOR SHALL BREAK OUT THE BOTTOM OF EACH SEPTIC TANK.
 - E. CONTRACTOR SHALL BREAK OUT THE TOP 3' OF THE SEPTIC TANK WALL AND REMOVE.
 - F. CONTRACTOR SHALL BACKFILL ALL VOIDS AND COMPACT IN 12" LIFTS. WET SOIL AS REQUIRED BY GEOTECHNICAL REPORT TO ACHIEVE COMPACTION.
 - G. CONTRACTOR SHALL SOD AS REQUIRED TO MATCH EXISTING YARD.
26. ALL VALVE BOXES SHALL BE SET FLUSH AND TO FINISH GRADE. ALL BOXES SHALL BE MARKED AS "SEWER".
27. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE LOCATION OF SEPTIC TANKS WITH EACH PROPERTY OWNER OR THEIR DESIGNATED REPRESENTATIVE AND IDENTIFY THE BEST ROUTE TO INSTALL SEWER LATERAL FROM HOUSE TO RIGHT-OF-WAY. SEWER LATERAL STUB-OUTS ARE SHOWN ON THE DRAWING BUT SHALL BE FIELD LOCATED BASED ON CONTRACTOR'S NEGOTIATION WITH THE PROPERTY OWNER.
28. ALL DISTURBED DRIVEWAYS SHALL BE REMOVED TO THE NEAREST EXPANSION JOINT OR SAW CUT TO BEYOND THE APRON. MINIMUM WIDTH OF SAW CUT SHALL BE 5'. DRIVEWAYS SHALL BE RESTORED WITH LIKE MATERIALS. TRANSITION FROM DRIVEWAY TO ASPHALT ROADWAY SHALL BE FLUSH. FOR OVERLAYS AT UNDISTURBED DRIVEWAYS, CONTRACTOR SHALL SAW CUT APRON BACK MINIMUM 2' FROM EDGE OF PAVEMENT. AFTER ROAD OVERLAY, CONTRACTOR SHALL RESTORE DRIVEWAY WITH LIKE MATERIALS SO THAT JOINT WITH ASPHALT IS FLUSH.
29. CONTRACTOR TO REPAIR/REPLACE ALL DAMAGED DRIVEWAY CULVERTS.
30. CONTRACTOR IS REQUIRED TO COMMUNICATE ROAD CLOSURES TO EMERGENCY SERVICES, THE SCHOOL SYSTEM FOR BUS ROUTING AND SANITATION SERVICES.
31. EXISTING STORMWATER IMPROVEMENTS, INCLUDING STORMWATER PIPE WITH GRAVEL BED AND SOCK SHALL BE PROTECTED. DAMAGED SECTIONS SHALL BE REPAIRED/REPLACED INCIDENTAL TO THE PROJECT.
32. CONTRACTOR SHALL PROVIDE 12 GAUGE LOCATOR WIRE FOR ALL BELOW GRADE PIPING. WHERE APPLICABLE, ALL TAPE SHALL BE MANUFACTURED BY THOR ENTERPRISES, INC. SUN PRAIRIE, WI, OR SETON NAMEPLATE CORPORATION, NEW HAVEN, CT, OR APPROVED EQUIVALENT.
33. NO WORK SHALL BE PERFORMED ON SATURDAY OR SUNDAY WITHOUT WRITTEN APPROVAL FROM THE CITY.
34. CONTRACTOR TO PROVIDE PRE-CONSTRUCTION VIDEO BEFORE CONSTRUCTION BEGINS. CONTRACTOR SHALL ALSO PROVIDE A POST CONSTRUCTION VIDEO WITH REQUEST FOR FINAL PAYMENT.
35. CONTRACTOR TO PROVIDE ENGINEER WITH A COMPLETE SET OF "RECORD DRAWINGS", INCLUDING BUT NOT LIMITED TO, FINISHED GRADES, LOCATION AND INVERTS OF ALL STRUCTURES AND UTILITIES.
36. CONSTRUCTION INSPECTION WILL BE PROVIDED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL NOTIFY THE OWNER AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND AT LEAST 48 HOURS BEFORE REQUIRING INSPECTION ON EACH AND EVERY PHASE OF WORK. NO FINAL TESTING OR PRESSURE TESTING WILL BE ACCEPTED UNLESS WITNESSED BY THE OWNER'S REPRESENTATIVE.
37. ANY SURVEY MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE REPLACED UPON COMPLETION OF THE WORK BY A REGISTERED LAND SURVEYOR.
38. PLANS AND SPECIFICATIONS REQUIRE THAT COMPACT BACKFILL BE PLACED ALONG SIDE OF AND OVER ALL UTILITIES. THE ENGINEER MAY REQUIRE THAT COMPACTION TESTS BE TAKEN TO VERIFY BACKFILL COMPACTION. THE COST OF SUCH COMPACTION TESTS WILL BE BORNE BY THE CONTRACTOR.
39. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL TREES, MONITORING WELLS, STRUCTURES AND UTILITIES NOT MARKED FOR REMOVAL OR DEMOLITION AND SHALL PROMPTLY REPAIR ANY DAMAGE AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.
40. CONTRACTOR SHALL REMOVE ALL UNSALVAGEABLE MATERIALS AND YARD WASTE FROM THE SITE IMMEDIATELY AND DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

BASKERVILLE-DONOVAN, INC.
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 Panama City Beach, Tallahassee - Mobile
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JAMES E. ANDERSON, P.E.
 FL Reg. Engineer #67494

SSRUS SOUNDSIDE
 SEPTIC TANK
 ELIMINATION PROGRAM
 PHASE B
 SANTA ROSA COUNTY, FLORIDA

PROJECT NO.	DESIGNED BY	DRAWN BY	CHK'D BY	PROJ. MGR.	DATE
20410.46	RMS	THO	JEA	RWD	FEBRUARY 2022

NO.	DATE	APPR.	REVISION/ACTION TAKEN
1	02/22	JEA	RELEASED FOR BID

GENERAL NOTES AND ABBREVIATION LEGEND

G-001

K:\204 Gulf Breeze and SSRUS\20410.46 Soundside STEP\DWG\G-001.dwg, Mar 09, 2022 - 10:36:47AM, toverton

CIVIL LEGEND

UTILITY SYMBOLS

FEATURE	SYMBOL
UNSIZE D STORM DRAIN	---SD---SD---
UNSIZE D SAN. SEWER MAIN	---SAN---SAN---
IDENTIFIED SAN. SEWER MAIN	---8" SAN---
UNSIZE D FORCE MAIN	---FM---FM---
IDENTIFIED FORCE MAIN	---3" FM---
UNSIZE D GAS MAIN	---G---G---
IDENTIFIED GAS MAIN	---4" G---4" G---
IDENTIFIED WATER LINE	---4" W---4" W---
WATER CONNECTION LINE	---W---W---
OVERHEAD ELECTRIC	---O/E---
FIBER OPTIC CABLE	---FOC---
BURIED TELEPHONE	---BT---BT---
BURIED ELECTRIC	---BE---BE---
ABANDON-IN-PLACE	---/---/---

MISCELLANEOUS SYMBOLS

FEATURE	SYMBOL
MAILBOX	
SIGN	
STREET NAME SIGN	
BLDG OR STRUCTURE FOOTPRINT	
CONTOUR LINE	---27---
PROJECT ADDRESS OR NAME	4671

PIPING SYMBOLS

NEW	FEATURE	EXISTING
	DIRECTION OF FLOW	
	90° BEND	
	90° BEND TURNED DOWN	
	90° BEND TURNED UP	
	45° BEND	
	45° BEND TURNED DOWN	
	45° BEND TURNED UP	
	22 1/2° BEND	
	22 1/2° BEND TURNED DOWN	
	22 1/2° BEND TURNED UP	
	CONCENTRIC REDUCER	
	ECCENTRIC REDUCER	
	PLUG OR BLIND FLANGE	
	TEE	
	TEE TURNED DOWN	
	TEE TURNED UP	
	WYE	
	WYE TURNED UP	

PAVEMENT SYMBOLS

	ASPHALT PAVEMENT
	CONCRETE OR ASPHALT PATCH
	ASPHALT OVERLAY
	DIRT/GRAVEL PATCH
	CONCRETE PAVEMENT
	GRAVEL

BOUNDARY AND MARKER SYMBOLS

FEATURE	SYMBOL
WIRE FENCE	---<>---
CHAIN LINK FENCE	---x---x---
WOOD FENCE	---//---//---
PROPERTY LINE	---R---
RIGHT OF WAY (R/W)	---- - - - ----
CENTERLINE	---C---
FOUND 4"x4" CONCRETE MONUMENT WITH NUMBER	#2433
FOUND 4"x4" CONCRETE MONUMENT, UNNUMBERED	
FOUND 3" DIA. CONCRETE MONUMENT (UNNUMBERED)	
FOUND FDOT CONCRETE MONUMENT	
FOUND 1/2" CAPPED IRON ROD WITH NUMBER	#6112
FOUND 1/2" IRON ROD (UNNUMBERED)	
FOUND 1" IRON PIPE, UNNUMBERED	
FOUND 2" IRON PIPE (GULF POWER)	

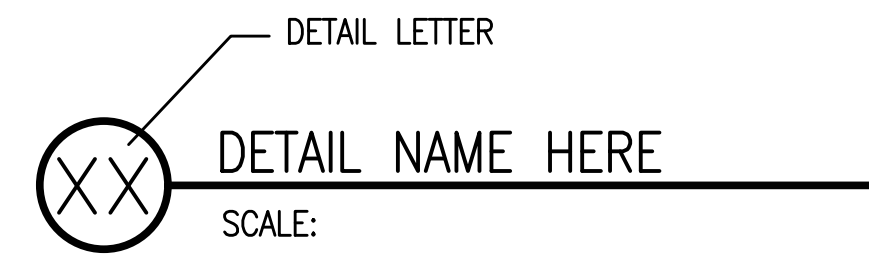
UTILITY POLE	
UTILITY POLE W/ GUY	
CONCRETE POWER POLE	
TELEPHONE PEDESTAL	
FIBER OPTIC BOX	
FIBER OPTIC MARKER	
LIGHT POLE	
CABLE TV JUNCTION BOX	
ELECTRICAL JUNCTION BOX	
TRAFFIC SIGNAL CONTROL BOX	
FUSEBOX	
SEWER VALVE	
GAS VALVE	
WATER VALVE	
EXIST. FIRE HYDRANT ASSEMBLY	
WATER METER	
SANITARY SEWER MANHOLE	
STORM DRAIN MANHOLE	
STORMWATER PIPE; SIZE & TYPE	

12" CMP

NOTE:

SANITARY SEWER MANHOLES ARE SHOWN LARGER THAN SCALE ON PLANS FOR CLARITY

DRAWING, SECTION AND DETAIL TITLES



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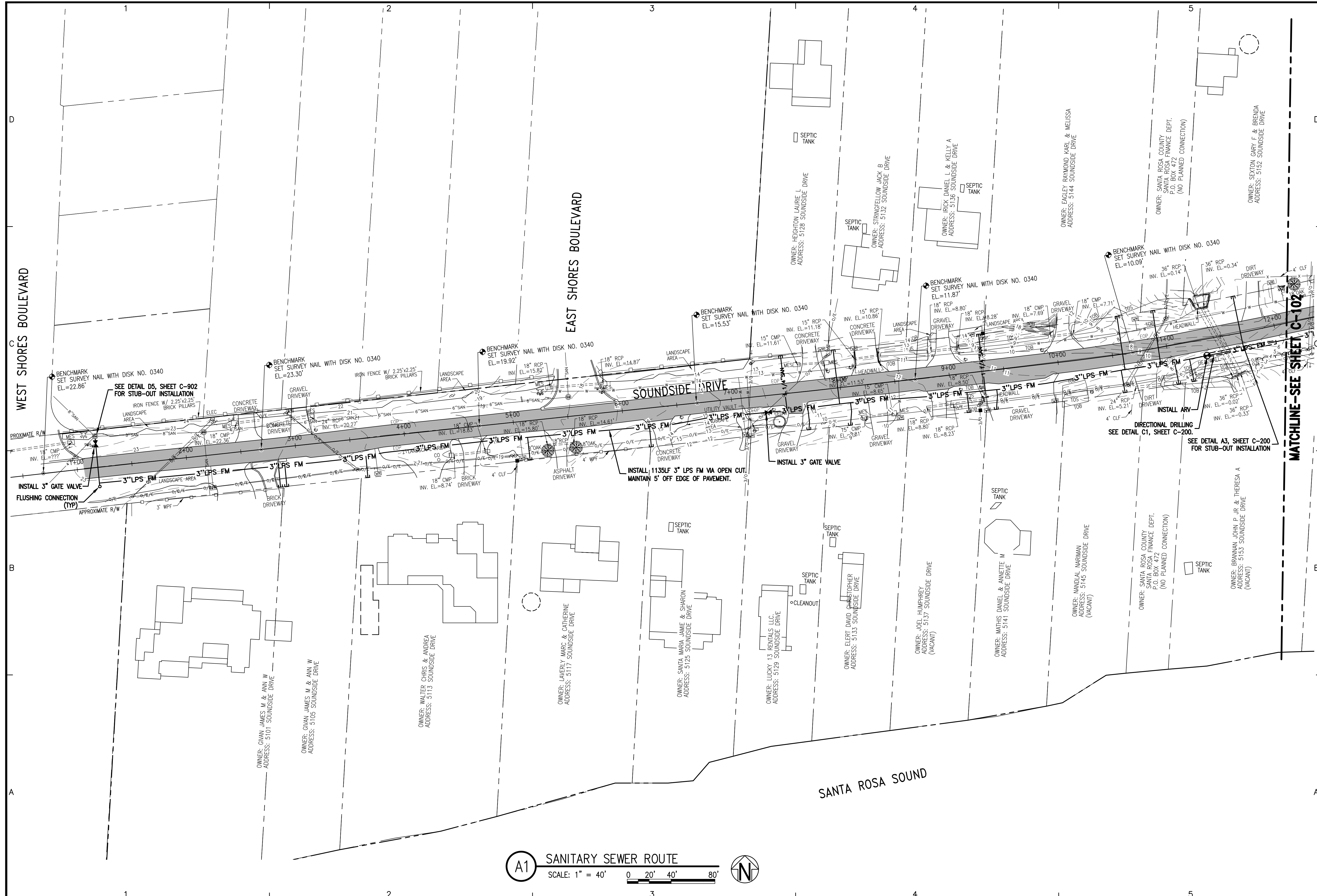
SSRUS SOUNDSIDE
 SEPTIC TANK
 ELIMINATION PROGRAM
 PHASE B
 SANTA ROSA COUNTY, FLORIDA

PROJECT NO.	NO.	DATE	APPR.	REVISION/ACTION TAKEN
20410.46	1	01/22	JEA	RELEASED FOR BID
DESIGNED BY: KMS				
DRAWN BY: THO				
CHK'D BY: JEA				
PROJ. MGR: RMD				
DATE: JANUARY 2022				

CIVIL LEGEND

C-001

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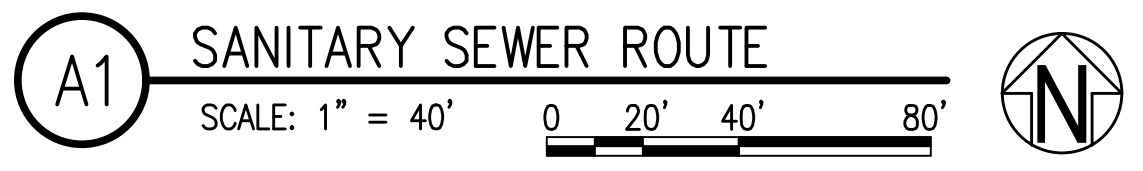
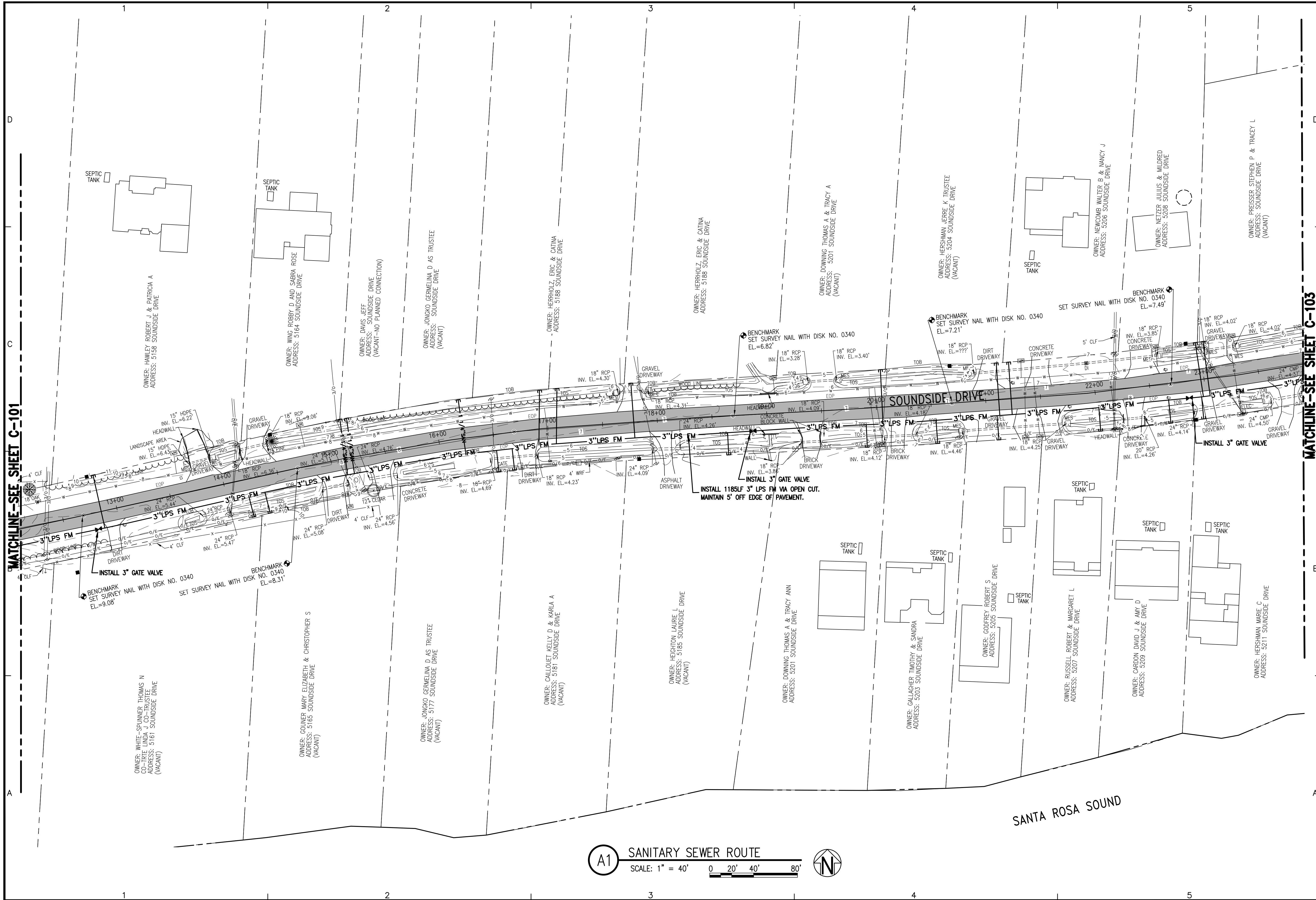
(A1) SANITARY SEWER ROUTE
 SCALE: 1" = 40'
 0 20' 40' 80'

SANITARY SEWER ROUTE		SSRUS SOUNDSIDE SEPTIC TANK ELIMINATION PROGRAM PHASE B	
SOUNDSIDE DRIVE		SANTA ROSA COUNTY, FLORIDA	
PROJECT NO:	20410.46	NO.	1
DESIGNED BY:	KMS	DATE:	02/22
DRAWN BY:	THO	APPR:	JEA
CHKD BY:	JEA	REVISION/ACTION TAKEN	RELEASED FOR BID
PROJ. MGR:	RWD	NOT RELEASED FOR CONSTRUCTION BY:	DATE
DATE:	FEBRUARY 2022		

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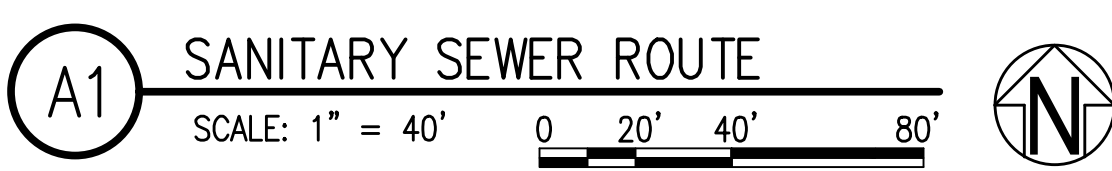
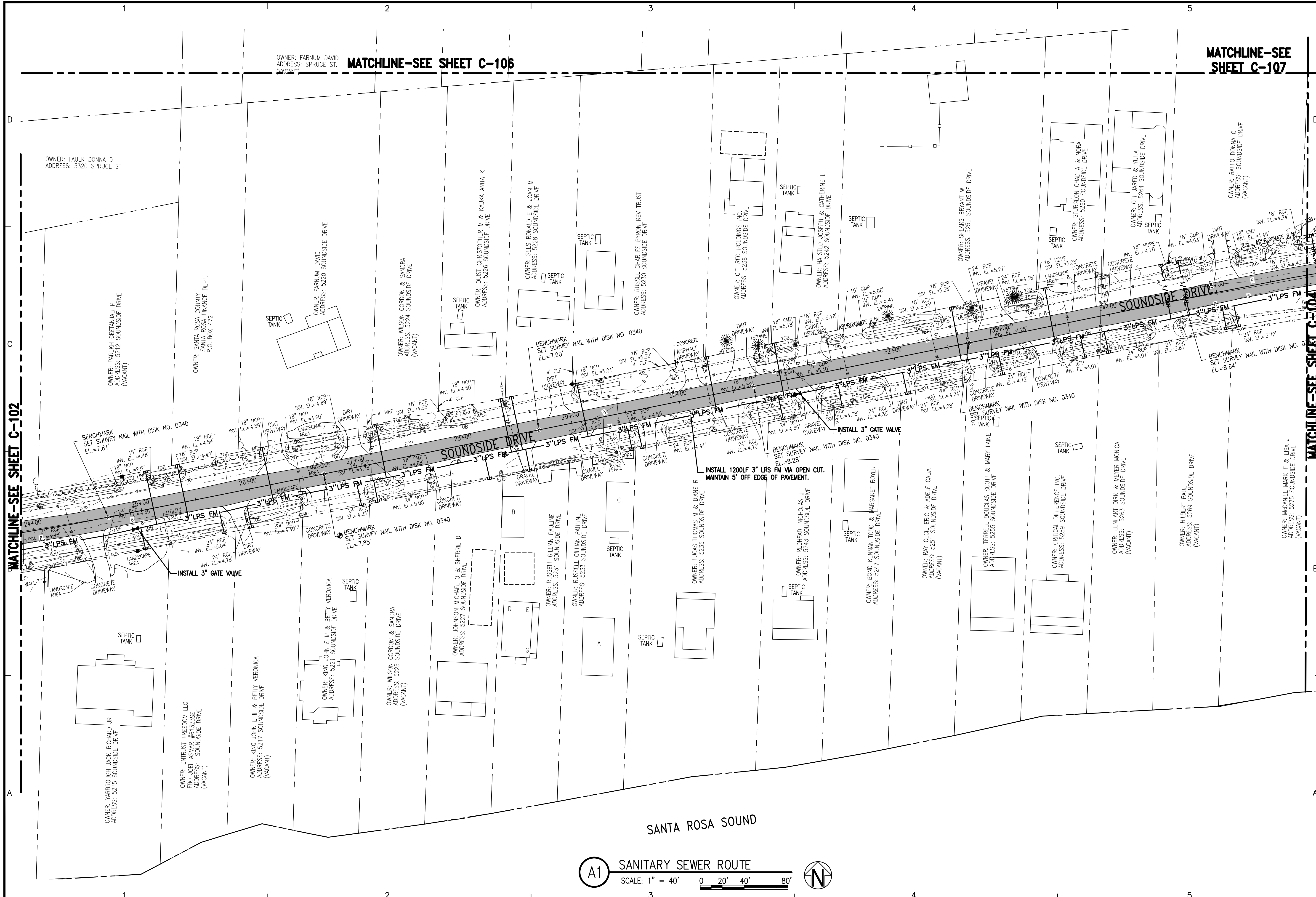


MATCHLINE-SEE SHEET C-101

MATCHLINE-SEE SHEET C-103

SANITARY SEWER ROUTE SOUND SIDE DRIVE	PROJECT NO:	20410.46	NO.	1	DATE:	02/22	APPR.	JEA	REVISION/ACTION TAKEN	RELEASED FOR BID
	DESIGNED BY:	KMS	DRAWN BY:	THO	CHKD BY:	JEA	PROJ. MGR:	RWD	DATE:	FEBRUARY 2022
C-102	NOT RELEASED FOR CONSTRUCTION BY DATE									
	SANTA ROSA COUNTY, FLORIDA									
SSRUS SOUND SIDE SEPTIC TANK ELIMINATION PROGRAM PHASE B										
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JAMES E. ANDERSON, P.E. FL Reg. Engineer #167494										
BASKERVILLE-DONOVAN, INC. Innovative Infrastructure Solutions 448 W. MAIN ST., PENSACOLA, FL 32502 (850) 438-9661 ENGINEERING BUSINESS: EB-0000340 Pensacola - Panama City Beach - Tallahassee - Mobile This drawing is the property of BASKERVILLE-DONOVAN, INC. and is not to be reproduced in whole or in part. It is not to be used on any other project and is to be returned upon request.										

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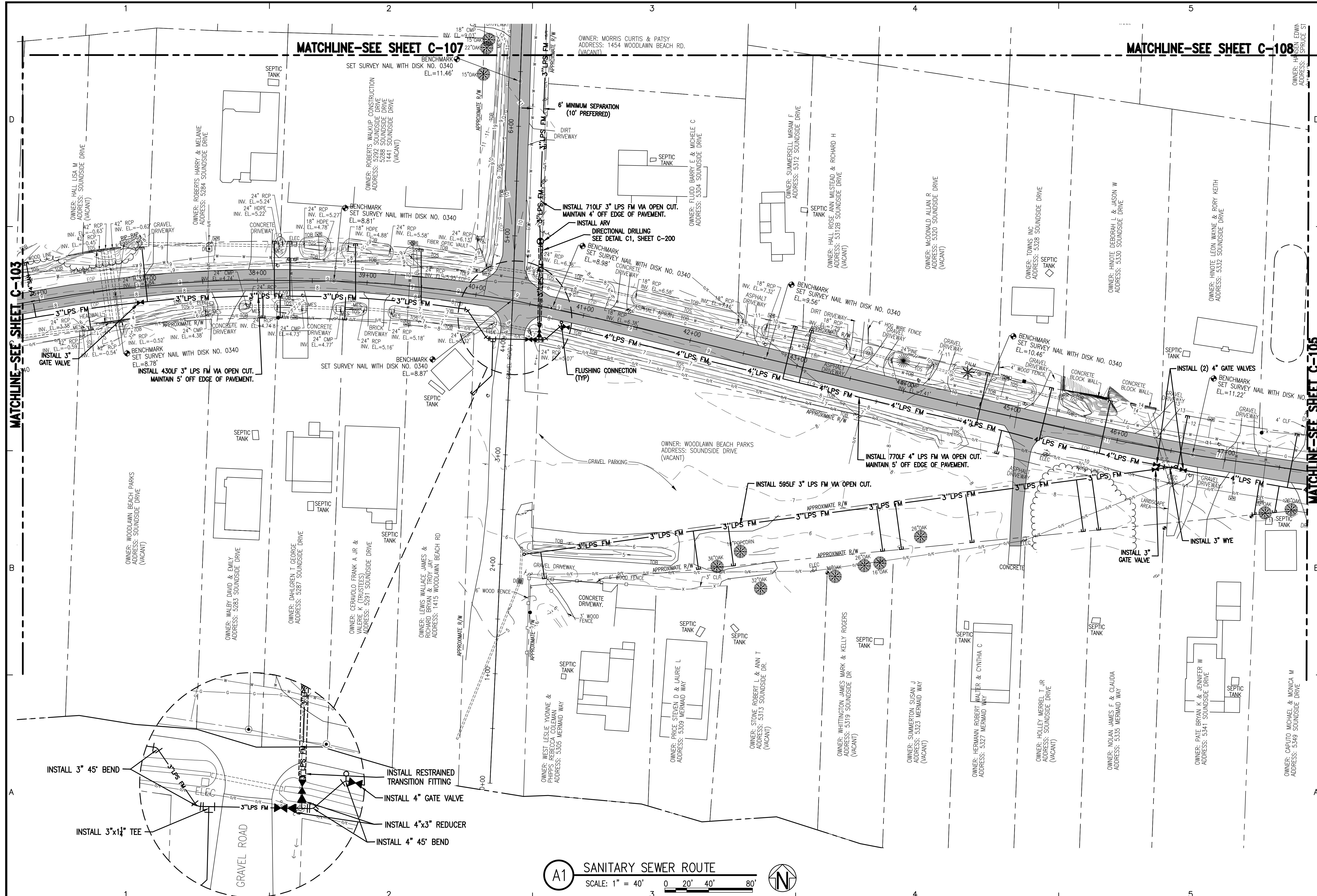
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DESIGNED BY: KMS
 DRAWN BY: THO
 CHK'D BY: JEA
 PROJ. MGR: RMD
 DATE: FEBRUARY 2022

NOT RELEASED FOR CONSTRUCTION BY: DATE

C-103

K:\204 Gulf Breeze and SSRUS\20410.46 Soundside STEP\DWG\C-100.dwg, Mar 09, 2022 - 2:46:33PM, toverton



A1 SANITARY SEWER ROUTE
 SCALE: 1" = 40' 0' 20' 40' 80'

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 SANTA ROSA COUNTY, FLORIDA

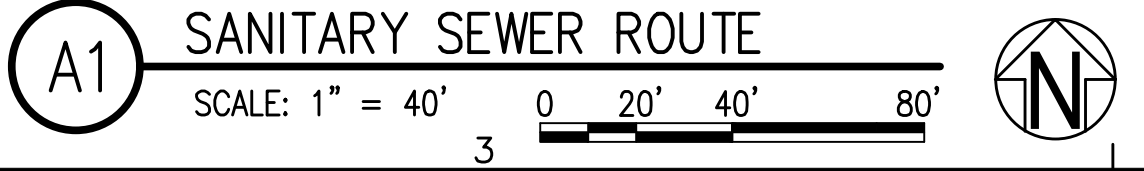
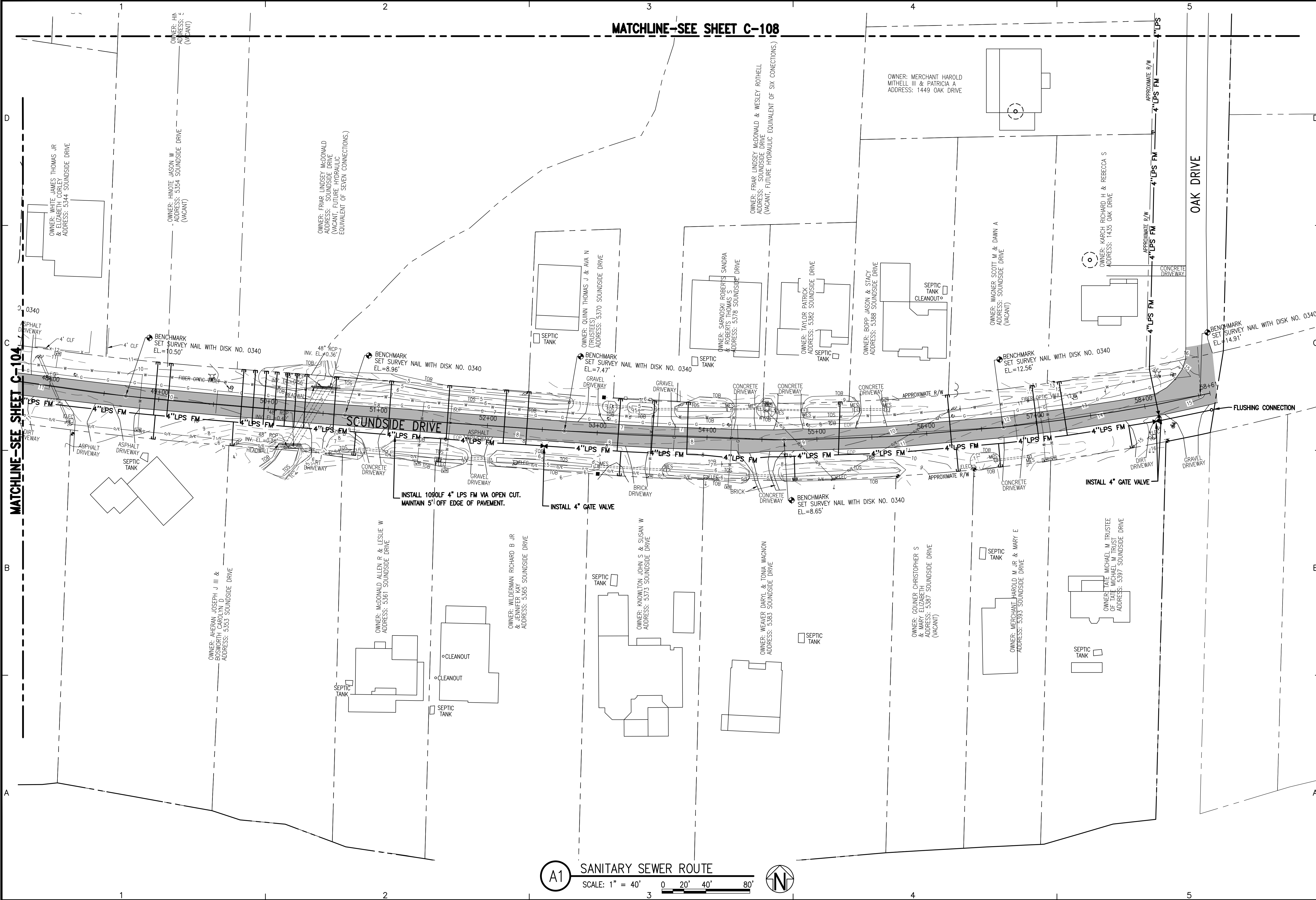
PROJECT NO.	NO.	DATE	APPR.	REVISION/ACTION TAKEN
20410.46	1	02/22	JEA	RELEASED FOR BID

DESIGNED BY: KMS
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 CHK'D BY: JEA
 PROJ. MGR: RMD
 DATE: FEBRUARY 2022

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C-104

MATCHLINE-SEE SHEET C-108



A1 SANITARY SEWER ROUTE

MATCHLINE-SEE SHEET C-104

<p>BASKERVILLE-DONOVAN, INC. Innovative Infrastructure Solutions 449 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9681 ENGINEERING BUSINESS: EB-0000340 Pensacola - Panama City Beach - Tallahassee - Mobile</p>		<p>OWNER: HINOTE, JASON W. ADDRESS: 5354 SOUNDSIDE DRIVE (VACANT)</p>	
		<p>OWNER: FRARR LINDSEY McDONALD ADDRESS: SOUNDSIDE DRIVE (VACANT, FUTURE HYDRAULIC EQUIVALENT OF SEVEN CONNECTIONS.)</p>	
<p>OWNER: WHITE JAMES THOMAS JR & ELIZABETH CORLEY ADDRESS: 5344 SOUNDSIDE DRIVE</p>		<p>OWNER: FRARR LINDSEY McDONALD & WESLEY ROTHELL ADDRESS: SOUNDSIDE DRIVE (VACANT, FUTURE HYDRAULIC EQUIVALENT OF SIX CONNECTIONS.)</p>	
<p>OWNER: QUINN THOMAS J & AVA N (TRUSTEES) ADDRESS: 5370 SOUNDSIDE DRIVE</p>		<p>OWNER: MERCHANT HAROLD MITCHELL III & PATRICIA A ADDRESS: 1449 OAK DRIVE</p>	
<p>OWNER: SARNOOSKI ROBERTS SANDRA ADDRESS: 5378 SOUNDSIDE DRIVE</p>		<p>OWNER: WAGNER SCOTT M & DAWN A ADDRESS: SOUNDSIDE DRIVE (VACANT)</p>	
<p>OWNER: TAYLOR PATRICK ADDRESS: 5382 SOUNDSIDE DRIVE</p>		<p>OWNER: KARCH RICHARD H & REBECCA S ADDRESS: 1435 OAK DRIVE</p>	
<p>OWNER: BOPP JASON & STACY ADDRESS: 5388 SOUNDSIDE DRIVE</p>		<p>OWNER: WAGNER SCOTT M & DAWN A ADDRESS: SOUNDSIDE DRIVE (VACANT)</p>	
<p>OWNER: WILDERMAN RICHARD B JR & JENNIFER KAY ADDRESS: 5365 SOUNDSIDE DRIVE</p>		<p>OWNER: WAGNER SCOTT M & DAWN A ADDRESS: SOUNDSIDE DRIVE (VACANT)</p>	
<p>OWNER: KNOWLTON JOHN S & SUSAN W ADDRESS: 5373 SOUNDSIDE DRIVE</p>		<p>OWNER: WAGNER SCOTT M & DAWN A ADDRESS: SOUNDSIDE DRIVE (VACANT)</p>	
<p>OWNER: WEAVER DARYL & TONIA WAGON ADDRESS: 5383 SOUNDSIDE DRIVE</p>		<p>OWNER: WAGNER SCOTT M & DAWN A ADDRESS: SOUNDSIDE DRIVE (VACANT)</p>	
<p>OWNER: COUNER CHRISTOPHER S & MARY ELIZABETH ADDRESS: 5387 SOUNDSIDE DRIVE (VACANT)</p>		<p>OWNER: WAGNER SCOTT M & DAWN A ADDRESS: SOUNDSIDE DRIVE (VACANT)</p>	
<p>OWNER: MERCHANT HAROLD M JR & MARY E ADDRESS: 5393 SOUNDSIDE DRIVE</p>		<p>OWNER: WAGNER SCOTT M & DAWN A ADDRESS: SOUNDSIDE DRIVE (VACANT)</p>	
<p>OWNER: TATE MICHAEL M TRUSTEE & MICHAEL M TRUST ADDRESS: 5397 SOUNDSIDE DRIVE</p>		<p>OWNER: WAGNER SCOTT M & DAWN A ADDRESS: SOUNDSIDE DRIVE (VACANT)</p>	

SSRUS SOUNDSIDE SEPTIC TANK ELIMINATION PROGRAM PHASE B
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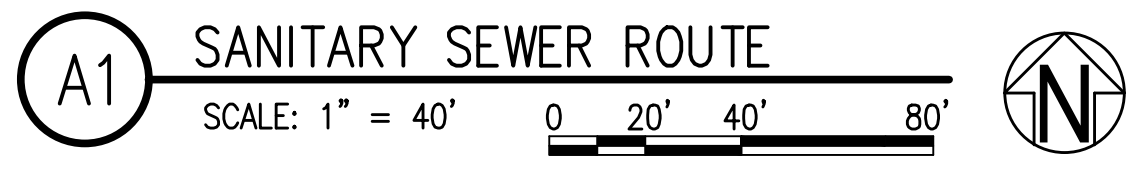
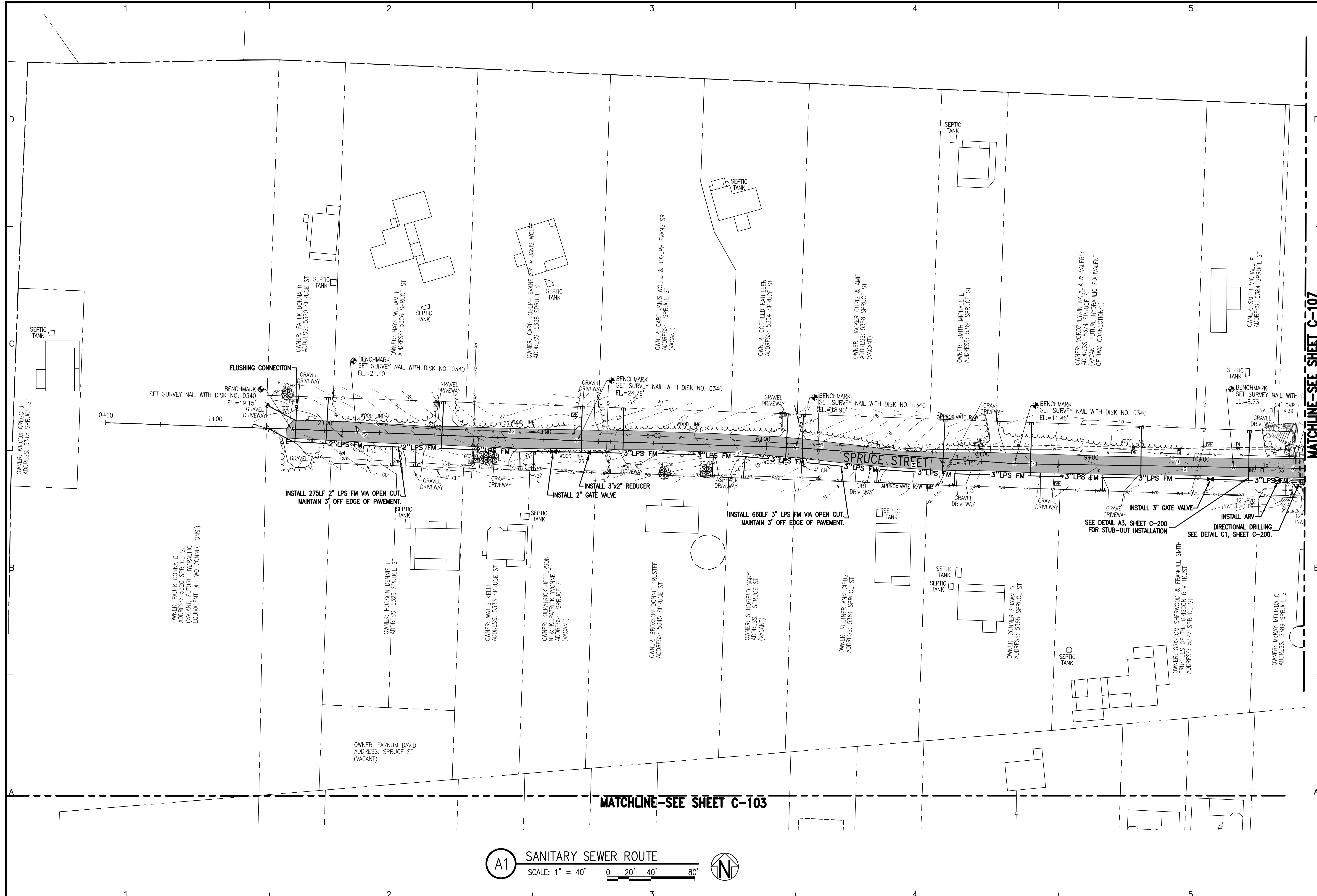
SANITARY SEWER ROUTE
SOUNDSIDE DRIVE

C-105

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JAMES E. ANDERSON, P.E.
FL. Reg. Engineer #67494

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MATCHLINE-SEE SHEET C-107

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 Innovative Infrastructure Solutions
 448 W. MAIN ST., PENSACOLA, FL 32502 (850)438-9861
 ENGINEERING BUSINESS: EB-0000340
 Panama City Beach - Tallahassee - Mobile

JAMES E. ANDERSON, P.E.
 FL. Reg. Engineer #167494

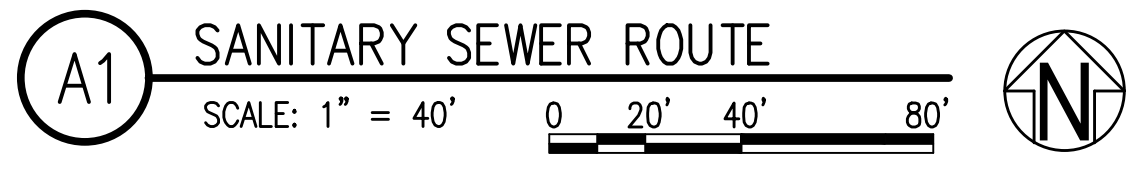
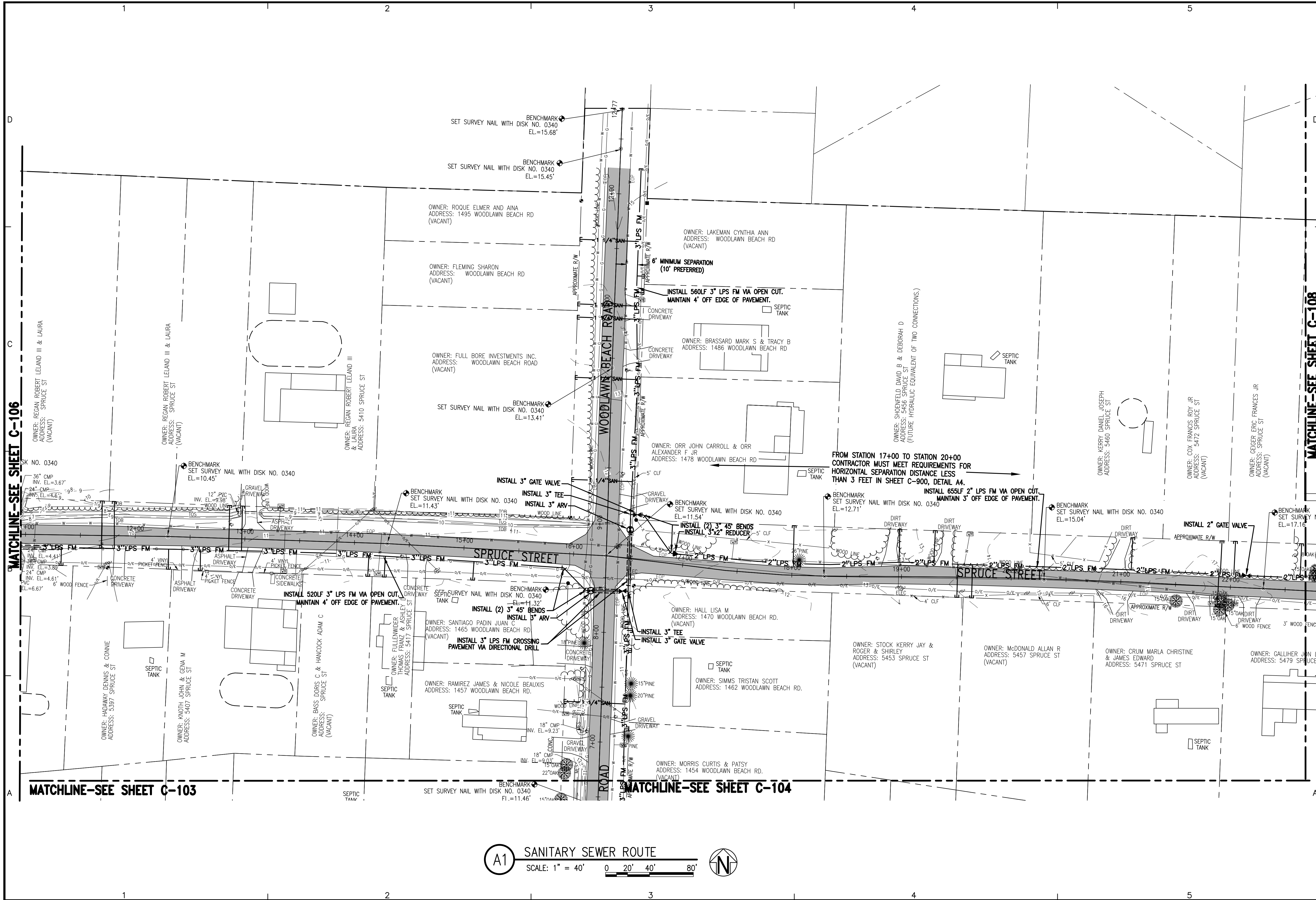
SSRUS SOUNDSIDE
 SEPTIC TANK
 ELIMINATION PROGRAM
 PHASE B
 SANTA ROSA COUNTY, FLORIDA

PROJECT NO.	NO.	DATE	APPR.	REVISION/ACTION TAKEN
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SANITARY SEWER ROUTE
 SOUNDSIDE DRIVE

C-106

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 FL. Reg. Engineer #167494

SSRUS SOUNDSIDE SEPTIC TANK ELIMINATION PROGRAM PHASE B
 SANTA ROSA COUNTY, FLORIDA

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 DATE: FEBRUARY 2022

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C-107

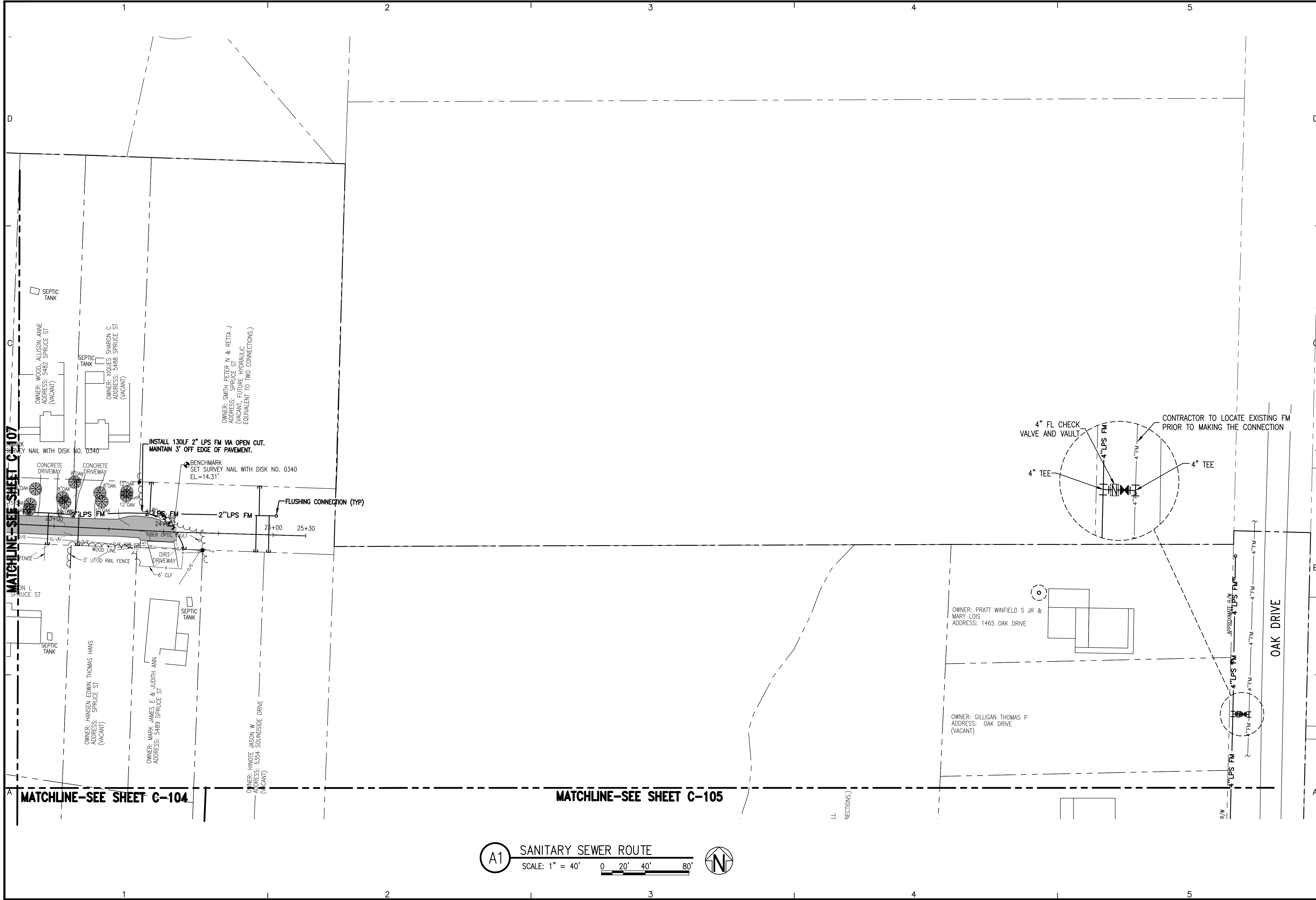
MATCHLINE-SEE SHEET C-106

MATCHLINE-SEE SHEET C-108

MATCHLINE-SEE SHEET C-103

MATCHLINE-SEE SHEET C-104

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A1 SANITARY SEWER ROUTE
 SCALE: 1" = 40' 0 20' 40' 80'



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JAMES E. ANDERSON, P.E.
 FL Reg. Engineer #167494

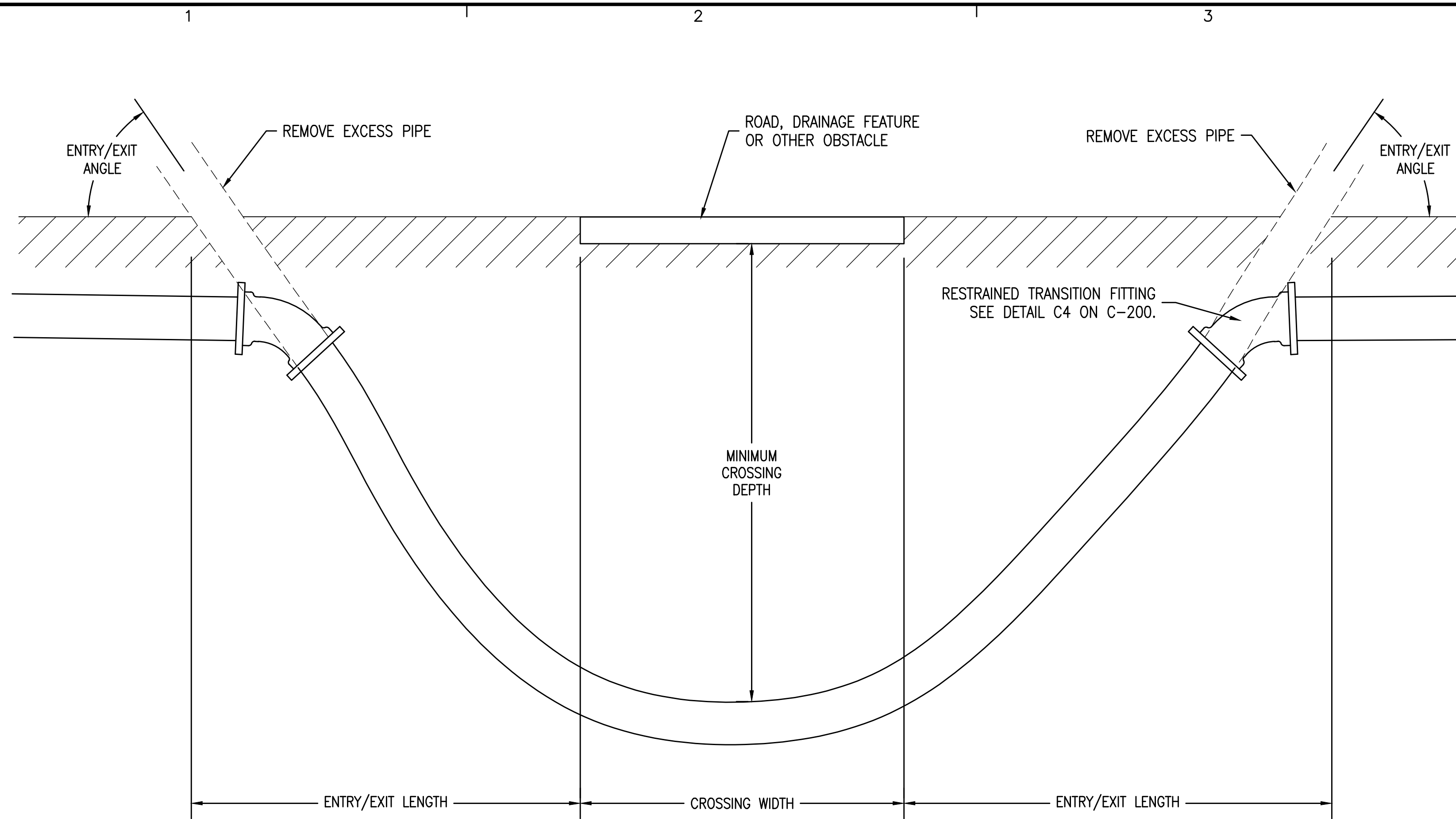
SSRSU SOUND SIDE SEPTIC TANK ELIMINATION PROGRAM PHASE B
 SANTA ROSA COUNTY, FLORIDA

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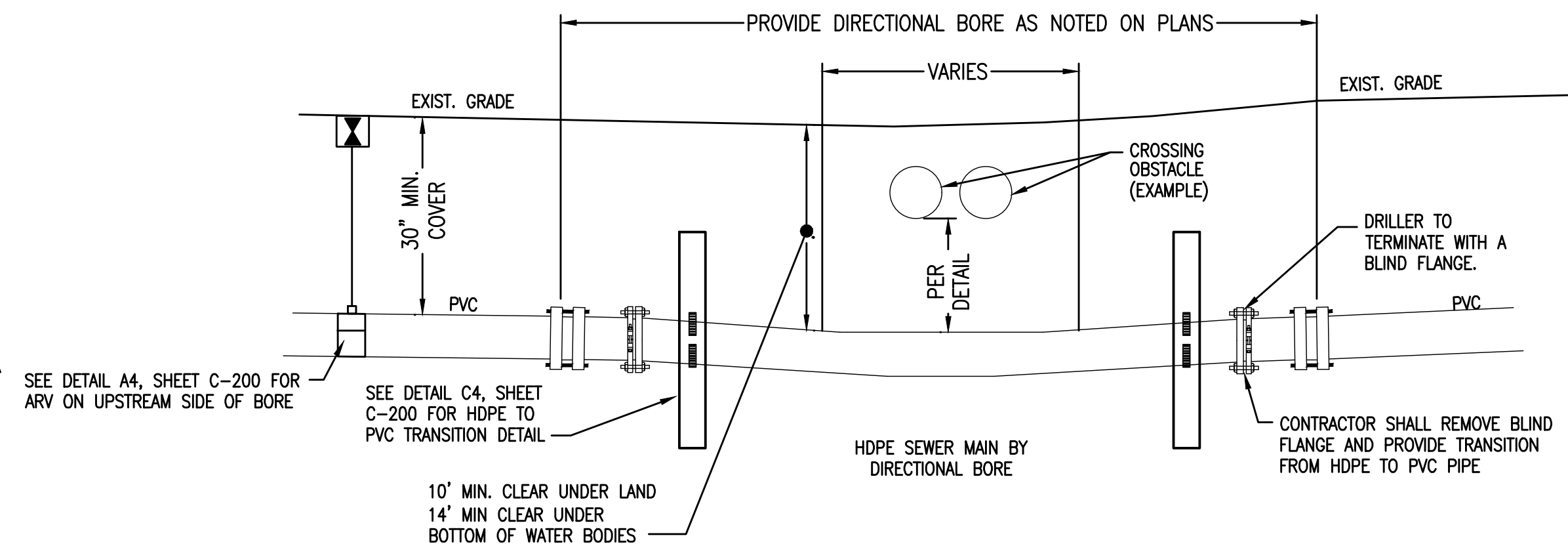


C1 TYPICAL DIRECTIONAL DRILL STANDARD DETAIL
SCALE: N.T.S.

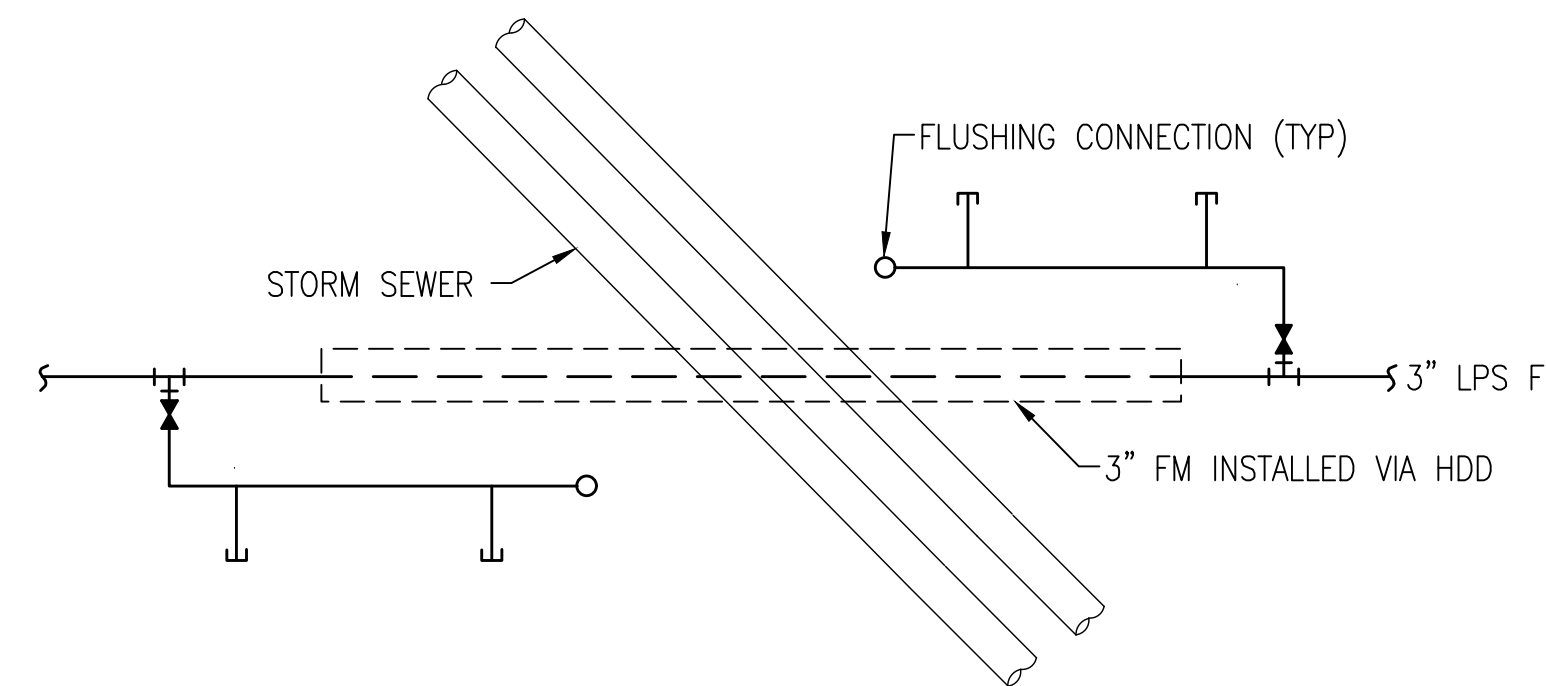
SHEET #	ROAD NAME	APPROX. BEGIN STA	APPROX. END STA	PIPE DIA. (IN)	SERVICE	MATERIAL TYPE	DESIGN ENTRY ANGLE°	ENTRY LENGTH (FT)	DESIGN EXIT ANGLE°	EXIT LENGTH (FT)	CROSSING WIDTH (FT)	TOTAL DRILL LENGTH (FT)	MIN. CROSSING DEPTH (FT)	COMMENTS/ ADDITIONAL CONFLICT INFO
C-101	SOUNDSIDE DRIVE	10+85 RT 15'	12+10 RT 15'	3	FORCE MAIN	HDPE DR11	15	63	15	57	10	130	9	CONTRACTOR TO LOCATE AND PROTECT UTILITIES CROSSING IN SOUNDSIDE DRIVE R/W
C-104	SOUNDSIDE DRIVE AND WOODLAWN BEACH ROAD	40+13 RT 38'	40+13 LT 65'	3	FORCE MAIN	HDPE DR11	15	37	15	33	40	110	6	CONTRACTOR TO LOCATE AND PROTECT UTILITIES CROSSING IN SOUNDSIDE DRIVE AND WOODLAWN BEACH ROAD R/W
C-106	SPRUCE STREET	10+40 RT 12'	11+43 RT 12'	3	FORCE MAIN	HDPE DR11	15	43	15	47	10	100	8	CONTRACTOR TO LOCATE AND PROTECT UTILITIES CROSSING IN SPRUCE STREET R/W

NOTES:

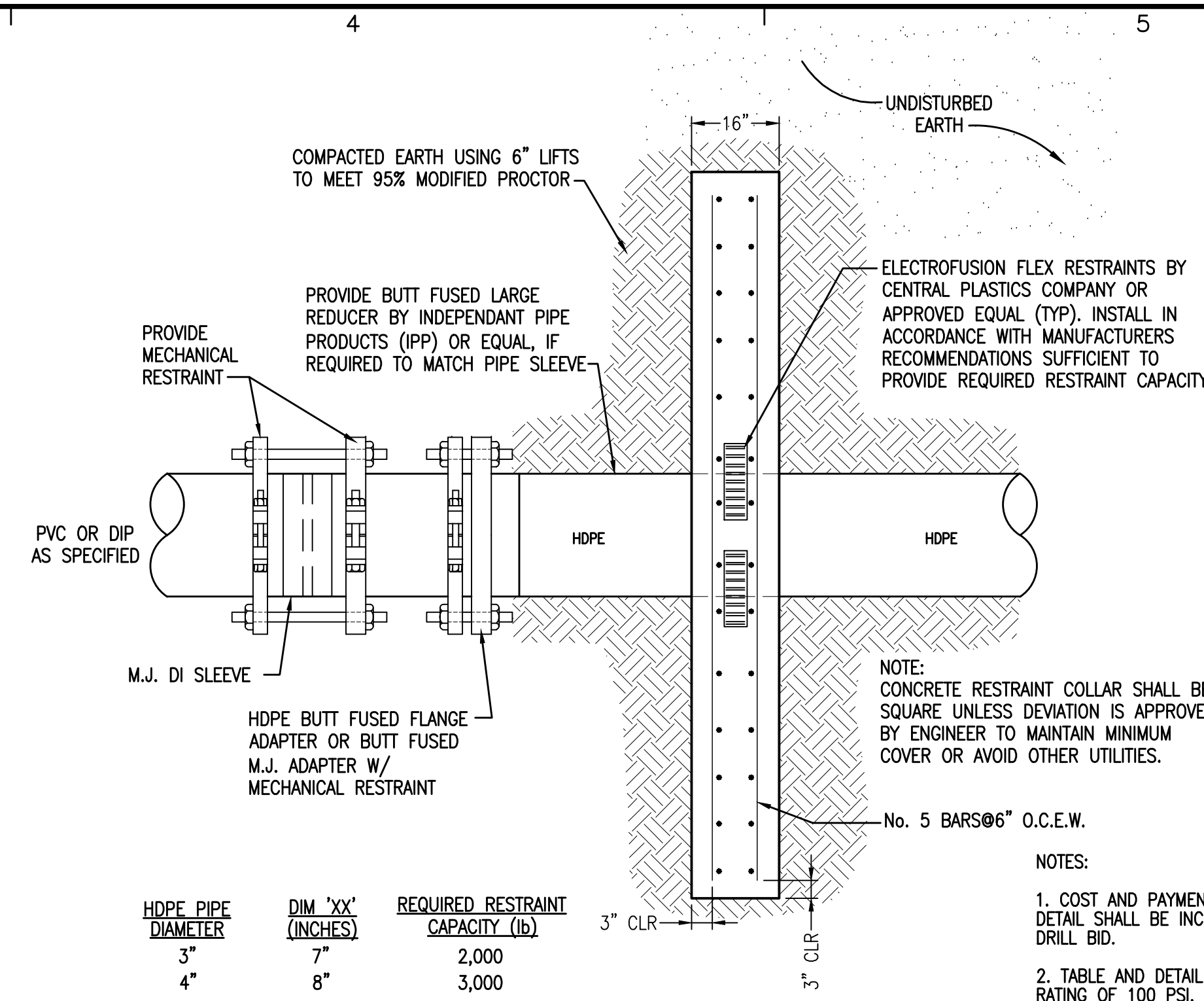
- LENGTHS GIVEN ARE HORIZONTAL DISTANCES AS MEASURED AT SURFACE
- RESTRAINED TRANSITION FITTINGS SHALL BE UTILIZED FOR CONNECTION TO PIPING INSTALLED VIA OTHER METHODS
- MINIMUM DEPTH SHALL BE CONFIRMED OR INCREASED BASED ON DRILLER'S SUBMITTED FRAC-OUT ANALYSIS AND PREVENTION PLAN
- CONTRACTOR SHALL POSITIVELY LOCATE CONFLICTING UTILITIES AND OBSTACLES PRIOR TO BEGINNING DRILLING ACTIVITIES.
- WHERE DIRECTIONAL DRILLS ARE INSTALLED WITHOUT AN UPSTREAM MECHANICAL ARV, CONTRACTOR TO UTILIZE MANUAL ARV FOR AIR PURGING DURING PIPE FILL.
- ALL DIRECTIONAL DRILLS AT WATER CROSSINGS SHOULD HAVE UTILITY MARKER PLACED AT EITHER SIDE OF CROSSING.



A1 DIRECTIONAL DRILL GENERAL DETAIL
NOT TO SCALE

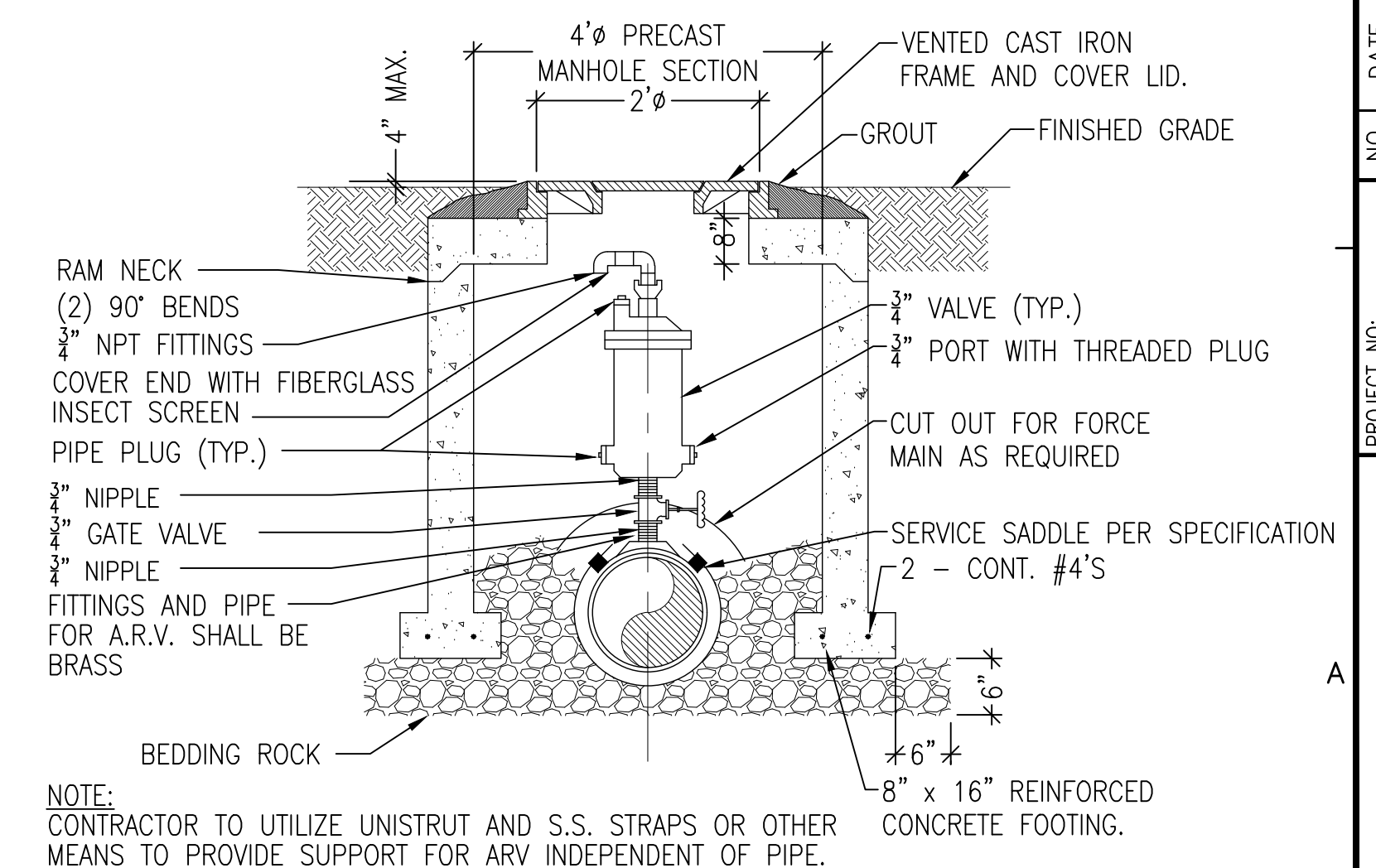


A3 SERVICE CONNECTIONS IN HDD AREAS
NOT TO SCALE



HDPE PIPE DIAMETER	DIM "XX" (INCHES)	REQUIRED RESTRAINT CAPACITY (lb)
3"	7"	2,000
4"	8"	3,000

C4 PVC TO HDPE TRANSITION CONNECTION DETAIL
NOT TO SCALE



A4 AIR/VACUUM RELEASE VALVE IN MANHOLE ON SHOULDER
NOT TO SCALE

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ENGINEERING BUSINESS: EB-00000340
22219 PANAMA CITY BEACH PARKWAY, SUITE 200, PANAMA CITY BEACH, FL 32413 (850) 230-6150
Panama City Beach, Tallahassee, Mobile

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SANTA ROSA COUNTY, FLORIDA

DIRECTIONAL DRILL DETAIL AND SCHEDULE

C-200

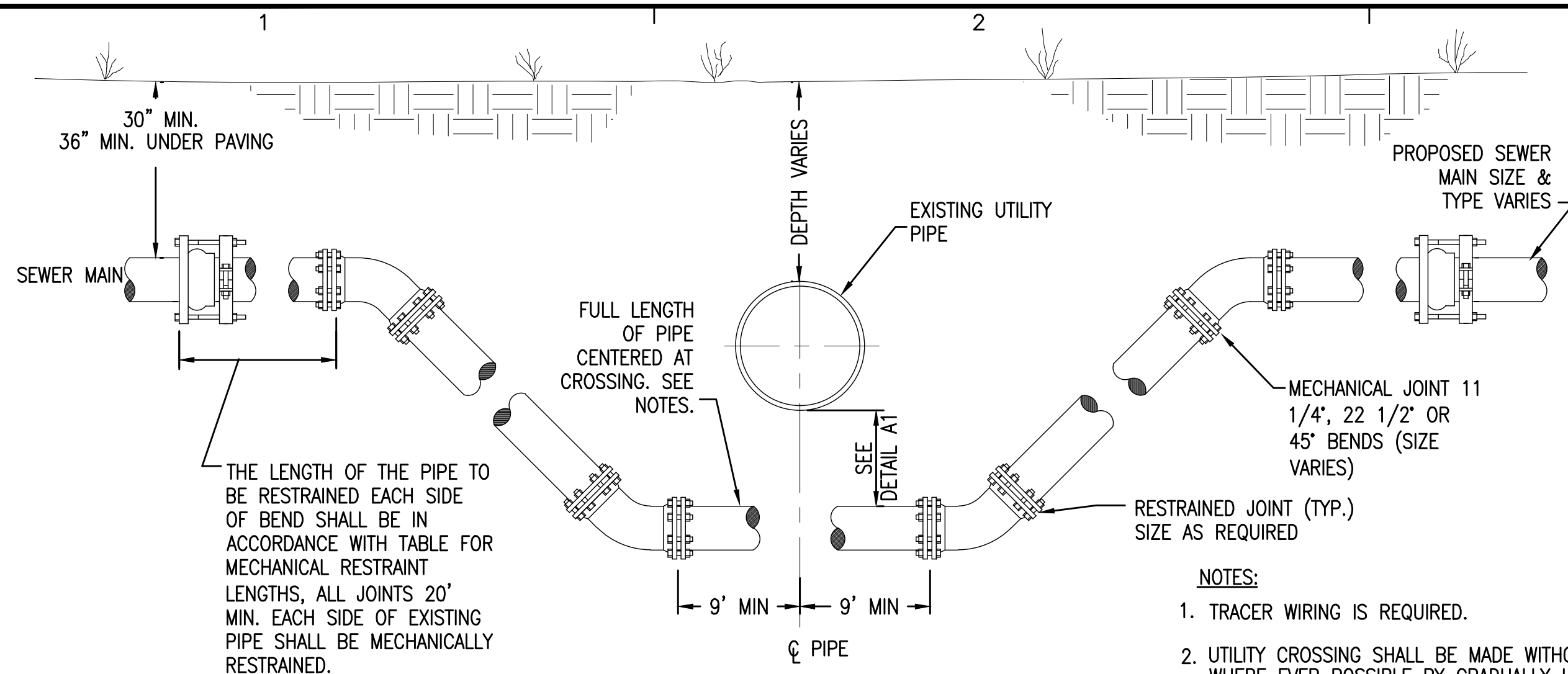
PROJECT NO: 20410.46
DESIGNED BY: JEA
DRAWN BY: THO
CHK'D BY: JEA
PROJ. MGR: RWD
DATE: FEBRUARY 2022

NO. DATE APPR. JEA 02/22

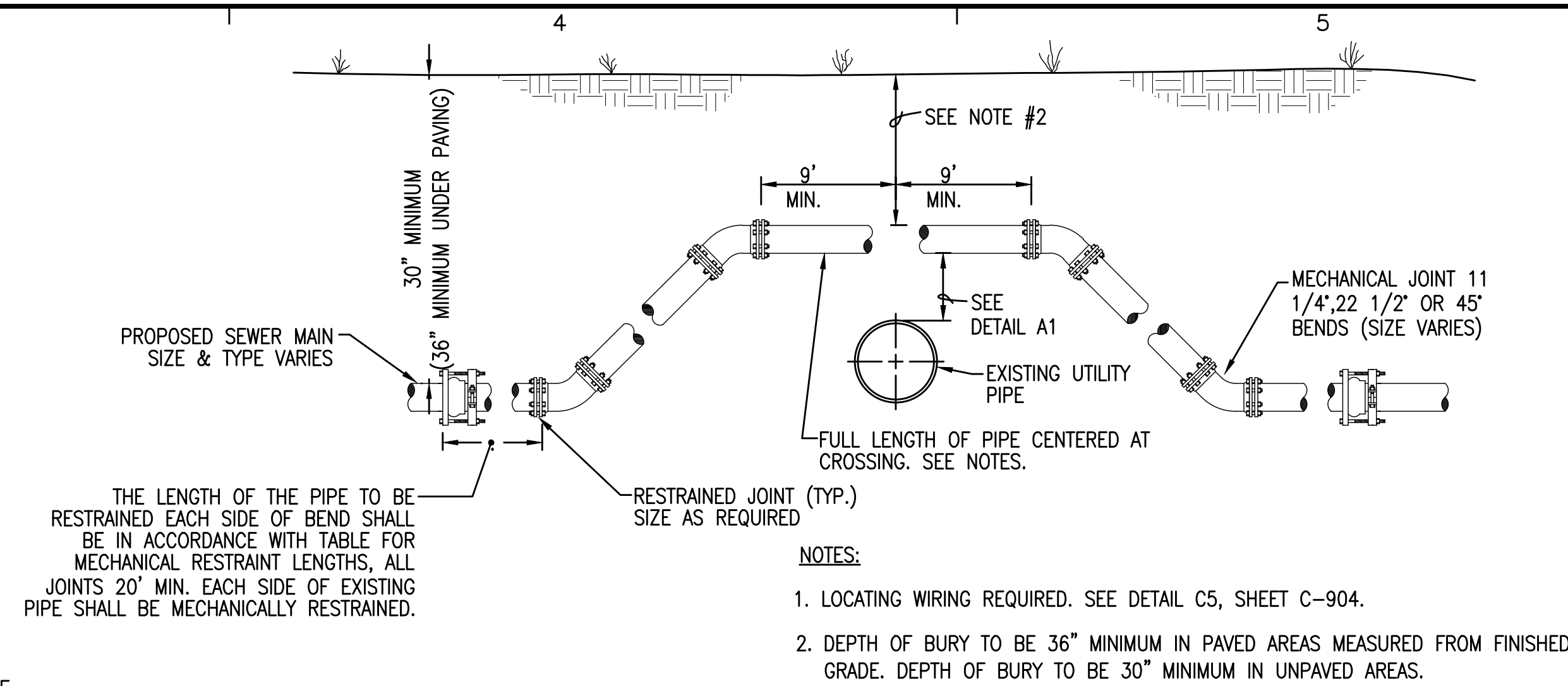
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STATE OF FLORIDA
PROFESSIONAL ENGINEER
JAMES ERIC ANDERSON, P.E.
FL Reg. Engineer #67494



D1 ADJUSTMENT UNDER EXISTING UTILITIES
NOT TO SCALE



D4 ADJUSTMENT OVER EXISTING UTILITIES
NOT TO SCALE

- NOTES:**
1. TRACER WIRING IS REQUIRED.
 2. UTILITY CROSSING SHALL BE MADE WITHOUT USE OF ADDITIONAL FITTINGS WHERE EVER POSSIBLE BY GRADUALLY LOWERING THE CONSTRUCTED PIPE ELEVATION TO CLEAR THE CONFLICTING EXISTING UTILITY.
 3. ALL COST OF UTILITY CROSSINGS SHALL BE INCIDENTAL TO THE PIPE UNIT PRICE AS CALLED FOR ON THE PLANS.
 4. NO ADDITIONAL PAYMENT WILL BE MADE FOR USE OF D.I.P. UNLESS CALLED FOR ON THE PLANS.

- NOTES:**
1. LOCATING WIRING REQUIRED. SEE DETAIL C5, SHEET C-904.
 2. DEPTH OF BURY TO BE 36" MINIMUM IN PAVED AREAS MEASURED FROM FINISHED GRADE. DEPTH OF BURY TO BE 30" MINIMUM IN UNPAVED AREAS.

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH RULE 62-555.314, F.A.C.

The following table summarizes the required separation distances from public water mains to other pipes as provided in Rule 62-555.314, F.A.C. Exceptions to these required distances are addressed on the second page.

Separation Requirements for Public Water System Mains:

Other Pipe	Horizontal Separation (X)	Crossings Vertical Separation (Y)	Joint Spacing (Z) @ Crossings (Full Joint Centered)
<ul style="list-style-type: none"> Storm Sewers Stormwater Force Mains Reclaimed Water Pipelines regulated under Part III of Chapter 62-610, F.A.C. 	3 ft. minimum	For water main installed above other pipe (preferred), 12 inches is the minimum except for storm sewer, then 6 inches is the minimum and 12 inches is preferred 12 inches minimum if water main is below other pipe	Alternate 3 ft. minimum
<ul style="list-style-type: none"> Vacuum Sanitary Sewer 	10 ft. preferred 3 ft. minimum	For water main installed above other pipe, 12 inches preferred and 6 inches minimum 12 inches minimum if water main is below other pipe	Alternate 3 ft. minimum
<ul style="list-style-type: none"> Gravity or Pressure Sanitary Sewer Sanitary Sewer Force Main Reclaimed Water Pipelines not regulated under Part III of Chapter 62-610, F.A.C. 	10 ft. preferred 6 ft. minimum (note - 3 ft. minimum for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer)	For water main installed above other pipe (preferred), 12 inches is the minimum except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred 12 inches minimum if water main is below other pipe	Alternate 6 ft. minimum
<ul style="list-style-type: none"> On-Site Sewage Treatment & Disposal System 	10 ft. minimum	NA	NA

Refer to the next page for exceptions to the minimum separation requirements provided above.

Disclaimer – This document is provided for your convenience only. Please refer to Rule 62-555.314, F.A.C., for additional construction requirements.

EXCEPTIONS TO MINIMUM SEPARATION REQUIREMENTS

Where it is not technically feasible or economically sensible to comply with the requirements of 62-555.314(1) or (2), F.A.C., the Department shall allow exceptions to these requirements if suppliers of water or construction permit applicants provide technical or economic justification for each exception and provide alternative construction features that afford a similar level of reliability and public health protection.

Acceptable alternative construction features include the following:

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH 62-555.314(5)(a), F.A.C.

Figure 1. Horizontal separation distance X less than required but not less than 3 feet

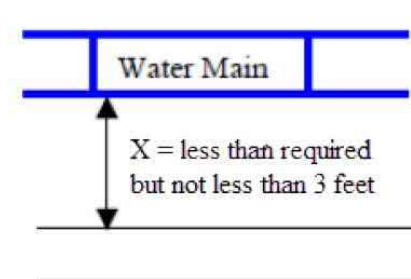
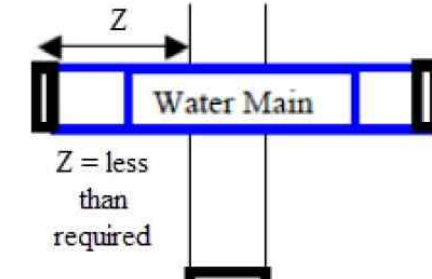


Figure 2. Joint spacing distance Z less than required



Where an underground water main is being laid less than the required minimum horizontal distance from another pipeline and where an underground water main is crossing another pipeline and joints in the water main are being located less than the required minimum distance from joints in the other pipeline:

1. Use of pressure-rated pipe conforming to the American Water Works Association standards incorporated into Rule 62-555.330, F.A.C., for the other pipeline if it is a gravity- or vacuum-type pipeline;
2. Use of welded, fused, or otherwise restrained joints for either the water main or the other pipeline; or
3. Use of watertight casing pipe or concrete encasement at least four inches thick for either the water main or the other pipeline.

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH 62-555.314(5)(b), F.A.C.

Figure 3. Horizontal separation distance X less than 3 feet

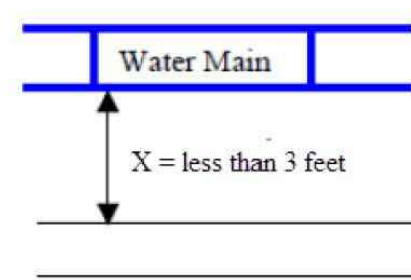
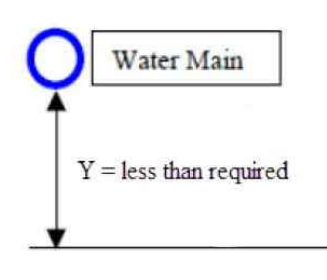


Figure 4. Crossing vertical separation distance Y less than required



Where an underground water main is being laid less than three feet horizontally from another pipeline and where an underground water main is crossing another pipeline and is being laid less than the required minimum vertical distance from the other pipeline:

Use of pipe, or casing pipe, having high impact strength (i.e., having an impact strength at least equal to that of 0.25-inch-thick ductile iron pipe) or concrete encasement at least four inches thick for both the water main and for the other pipeline if it is new and is conveying wastewater or reclaimed water.

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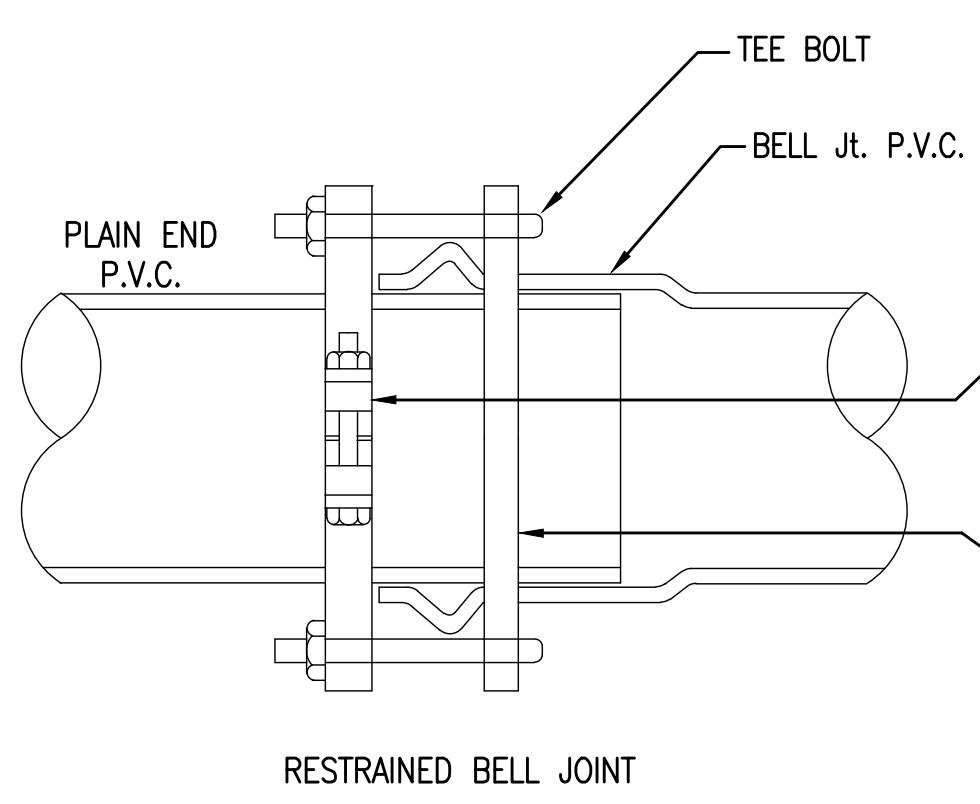
A1 PIPE SEPARATION REQUIREMENTS
SCALE: NO SCALE

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20410.46	KG	THO	JEA	RMD	FEBRUARY 2022

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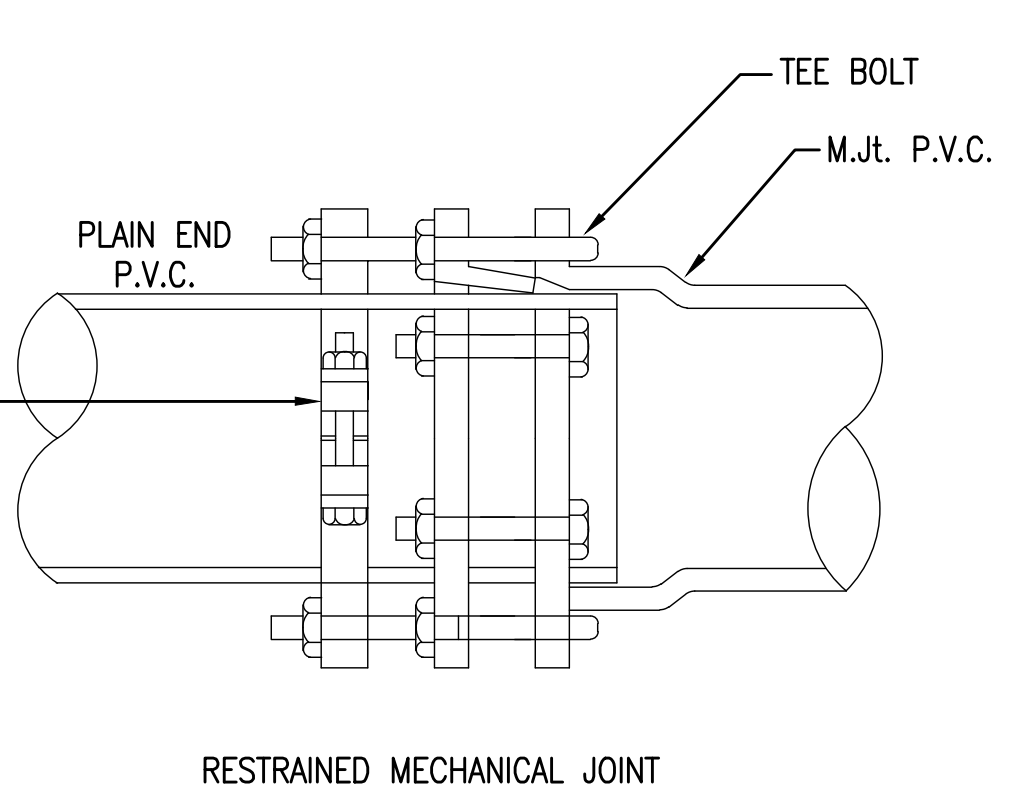
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TYPICAL PROFILE*
BELL Jt. TO PLAIN END
w/MECHANICAL RESTRAINERS

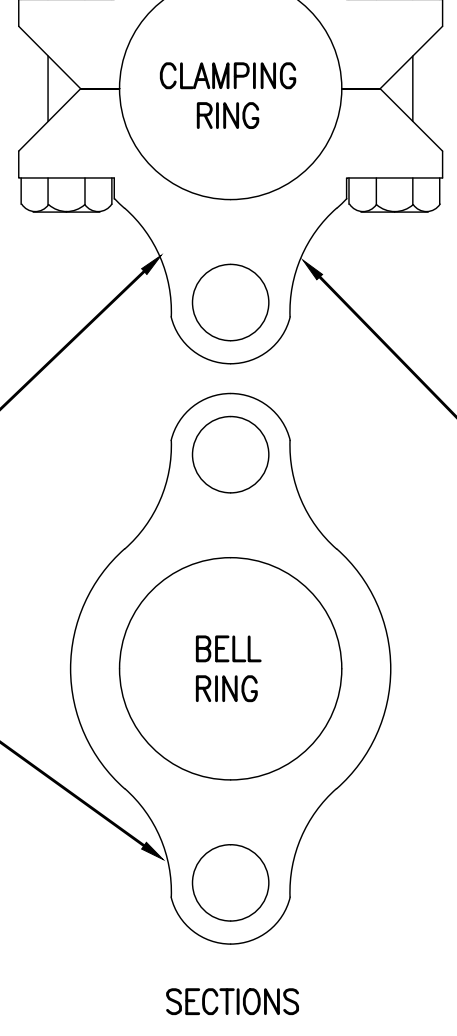


RESTRAINED BELL JOINT

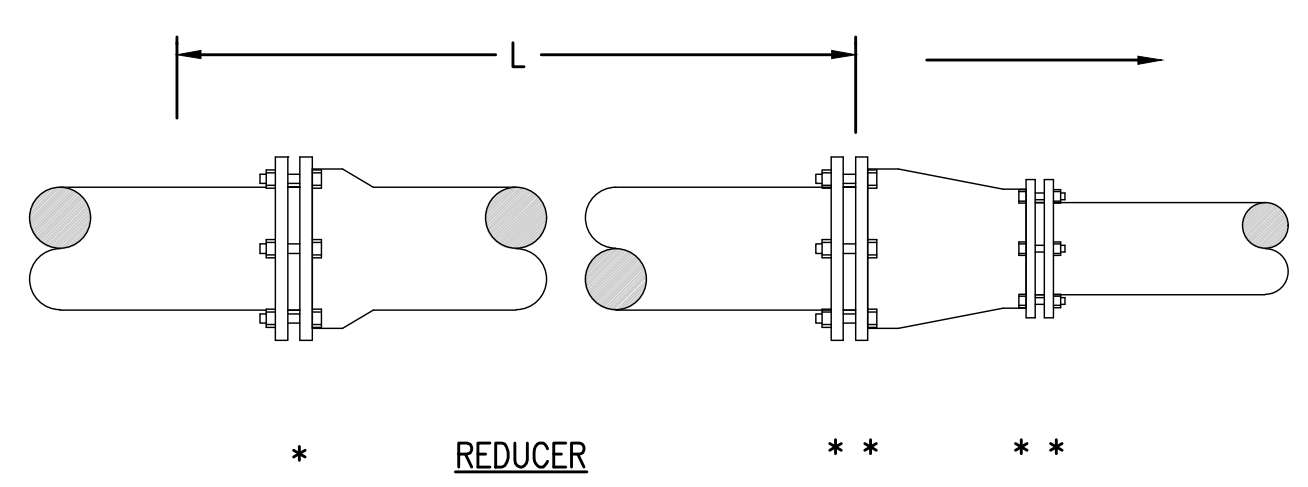
TYPICAL PROFILE**
MECHANICAL Jt. TO PLAIN END
w/MECHANICAL RESTRAINERS



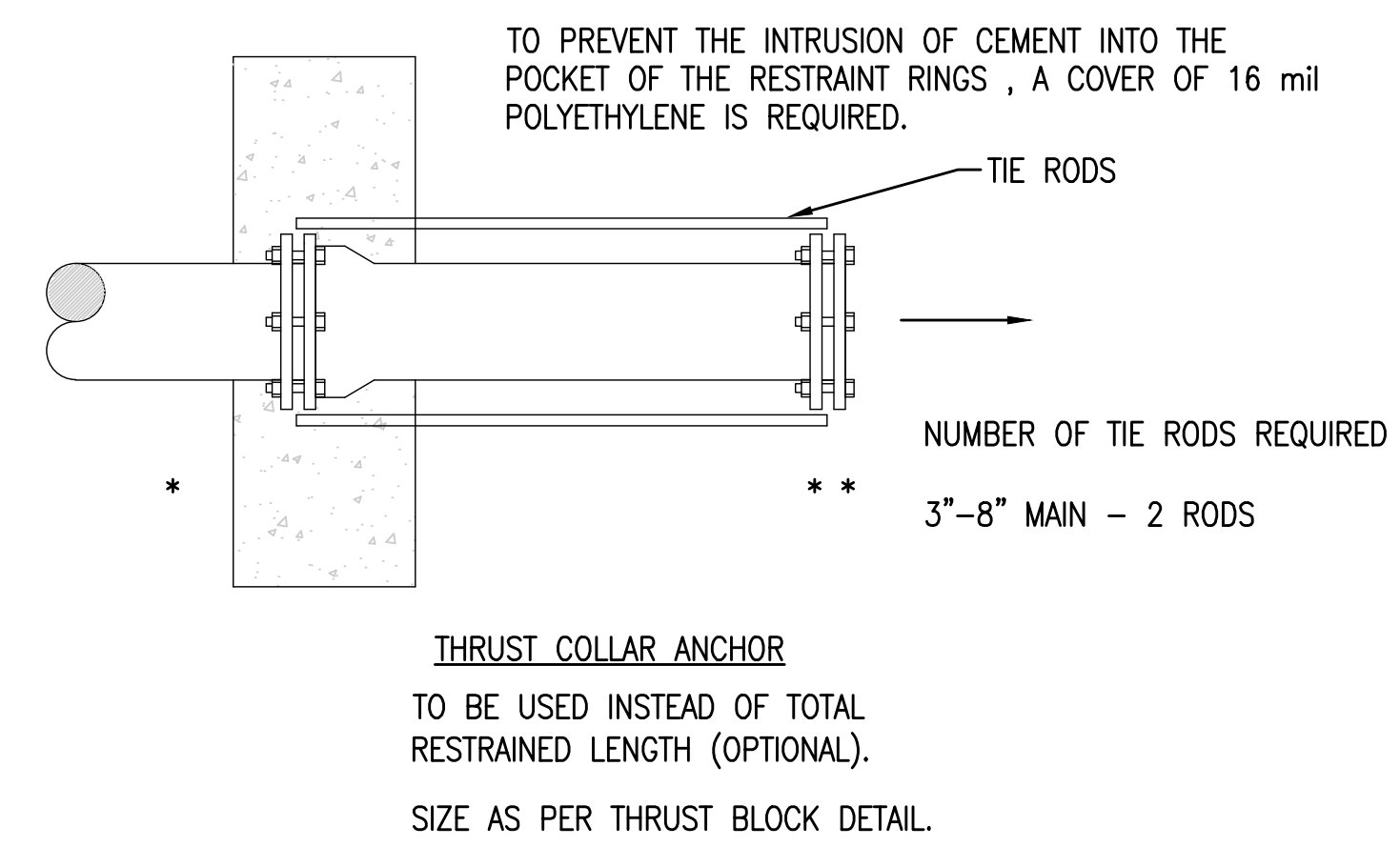
RESTRAINED MECHANICAL JOINT



SECTIONS

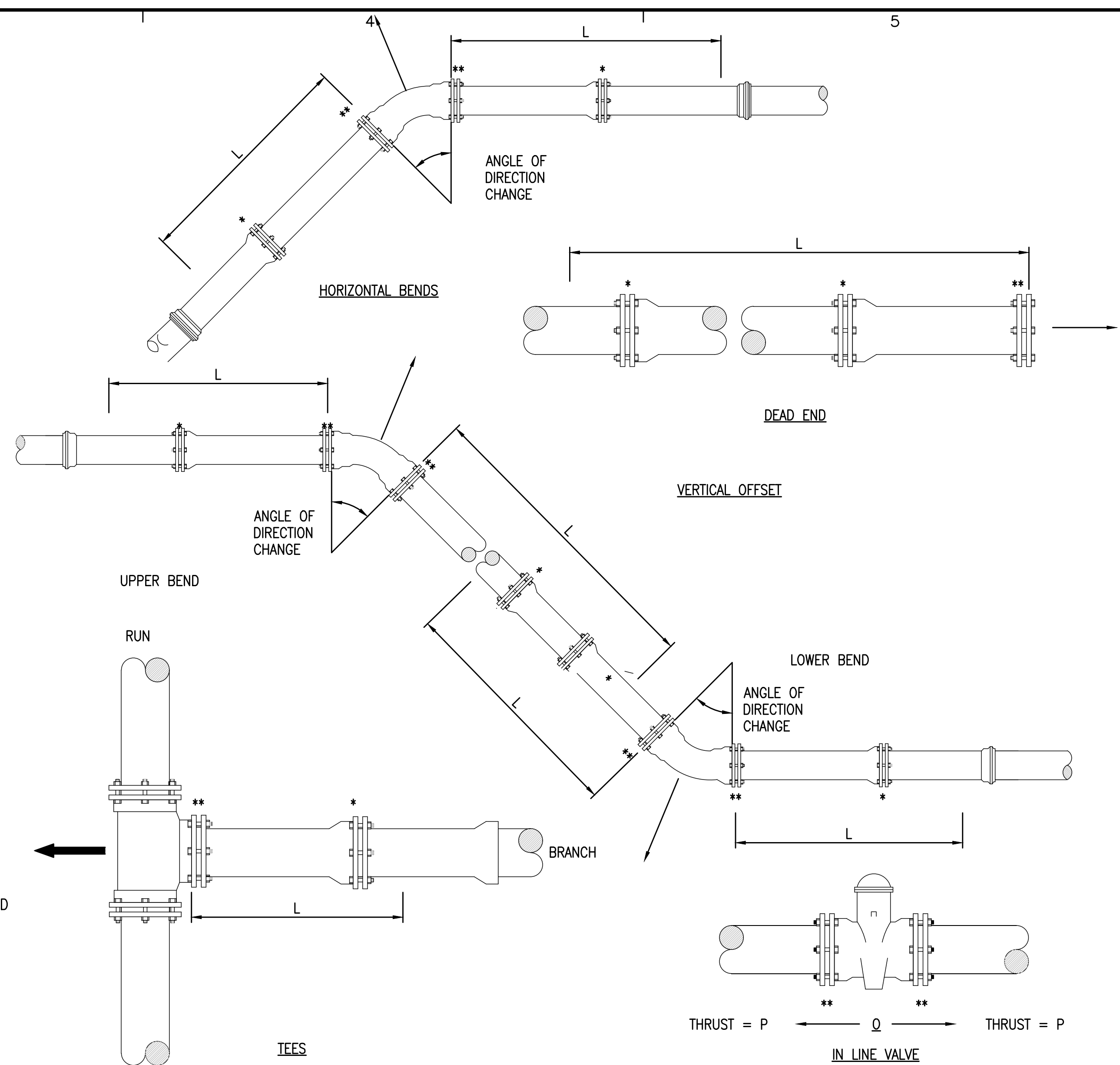


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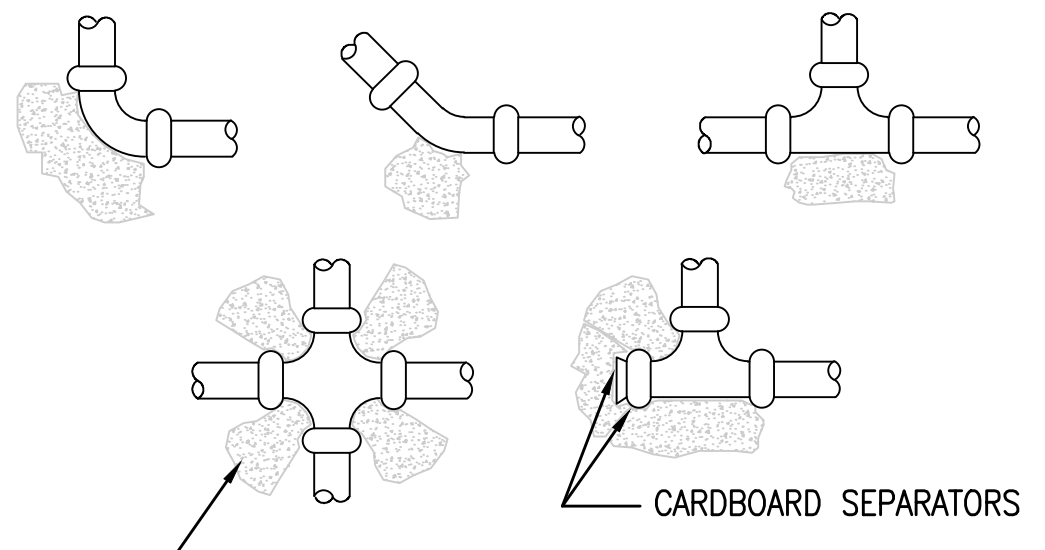


THRUST COLLAR ANCHOR

TO BE USED INSTEAD OF TOTAL RESTRAINED LENGTH (OPTIONAL).
SIZE AS PER THRUST BLOCK DETAIL.



B4 MECHANICAL RESTRAINT JOINT DETAILS
NOT TO SCALE



THRUST BLOCKS TO BE A MIN. THICKNESS OF 12" W/ A THRUST AREA AS SPECIFIED IN SCHEDULE.

A1 THRUST BLOCK SUPPORT DETAIL

NOT TO SCALE

PIPE DIA.	CAP OR TEE	90° BEND	45° BEND	22.5° BEND
2"	1.0	1.0	1.0	1.0
3"	1.1	1.5	1.0	1.0
4"	1.9	2.7	1.4	1.0

AREAS LISTED IN SQUARE FEET

TYPE OF SOIL: SANDY SILT
BEARING CAPACITY: 1,500 PSF
PIPE PRESSURE: 150 PSI
FACTOR OF SAFETY: 1.5

L=MINIMUM LENGTH TO BE RESTRAINED ON EACH SIDE OF FITTING (FEET)

NOMINAL PIPE SIZE (INCHES)	11 1/4" HORIZONTAL ELBOW	22 1/2" HORIZONTAL ELBOW	45° HORIZONTAL ELBOW	90° HORIZONTAL ELBOW	20 - RUN	1 - BRANCH	HORIZONTAL PLUGS & VALVES (SEE NOTE 3)	45° VERTICAL OFFSET UPPER LENGTH	45° VERTICAL OFFSET LOWER LENGTH	22 1/2° VERT. OFFSET UPPER LENGTH	22 1/2° VERT. OFFSET LOWER LENGTH	REDUCER TO 1 SIZE SMALLER LENGTH ON LARGER SIZE SIDE
< 4	2	4	7	18			39	16 / 3		8 / 1		13

NOTES

- TABLE ASSUMPTIONS: PVC PIPE, SAFETY FACTOR = 1.5, TEST PRESSURE = 150PSI SOIL = GM OR SM, 3 FT. BURY DEPTH TO TOP OF PIPE, TRENCH TYPE 3, BRANCH ON TEE IS EQUAL SIZE OR SMALLER THAN RUN OF TEE SIZE AND 20 FEET OF PIPE IS INSTALLED PAST THE TEE ON THE RUN SIDE (SMALLER BRANCH SIZES MUST BE CALCULATED BY THE ENGINEER). VERTICAL OFFSETS ARE 3 FEET DEEP ON TOP AND 8 FEET DEEP ON BOTTOM. REDUCERS ARE CALCULATED FOR ONE SIZE REDUCTION. OTHER CONDITIONS WILL REQUIRE ADDITIONAL CALCULATIONS.
- ALL FITTINGS MUST BE RESTRAINED. ONE OF THE FOLLOWING METHODS MAY BE USED:
A. MECHANICAL RESTRAINTS AT FITTING AND AT ADJACENT JOINTS TO A LENGTH AS SPECIFIED IN CHART.
B. TIE RODS AT FITTING AND THROUGH JOINTS TO A LENGTH AS SPECIFIED IN CHART.

A4 MECHANICAL RESTRAINT LENGTH TABLE - PVC
NOT TO SCALE

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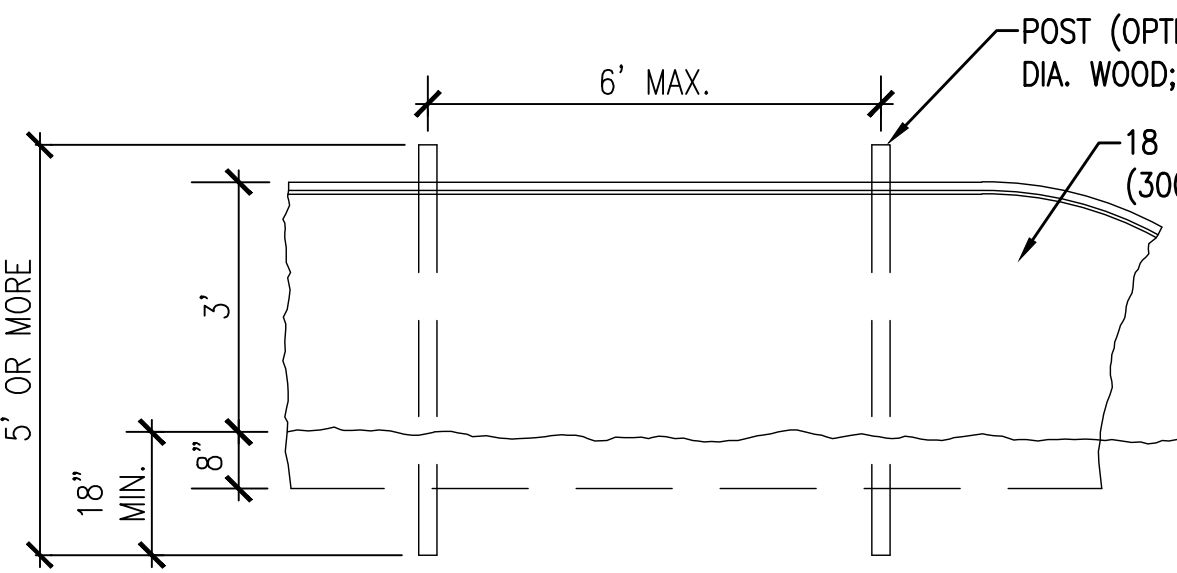
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JAMES E. ANDERSON, P.E.
FL. REG. ENGINEER #67494

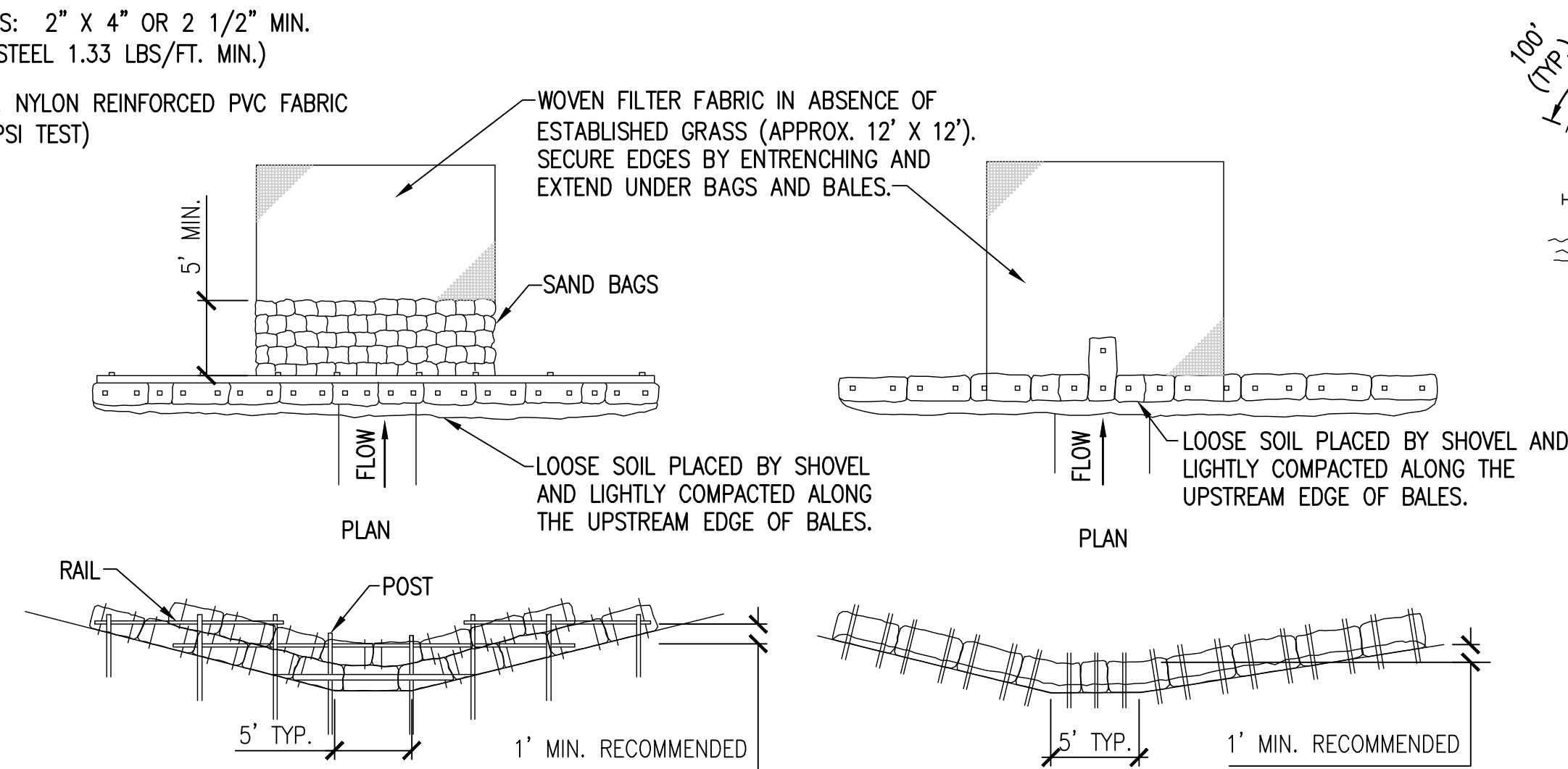
SSRUS SOUNDSIDE
SEPTIC TANK
ELIMINATION PROGRAM
PHASE B
SANTA ROSA COUNTY, FLORIDA

PROJECT NO.	DESIGNED BY	CHK'D BY	PROJ. MGR.	DATE	NO.	DATE	APPR.	REVISION/ACTION TAKEN
20410.46	KG	THO	RMD	FEBRUARY 2022	1	02/22	JEA	RELEASED FOR BID

GENERAL DETAILS
NOT RELEASED FOR CONSTRUCTION BY DATE

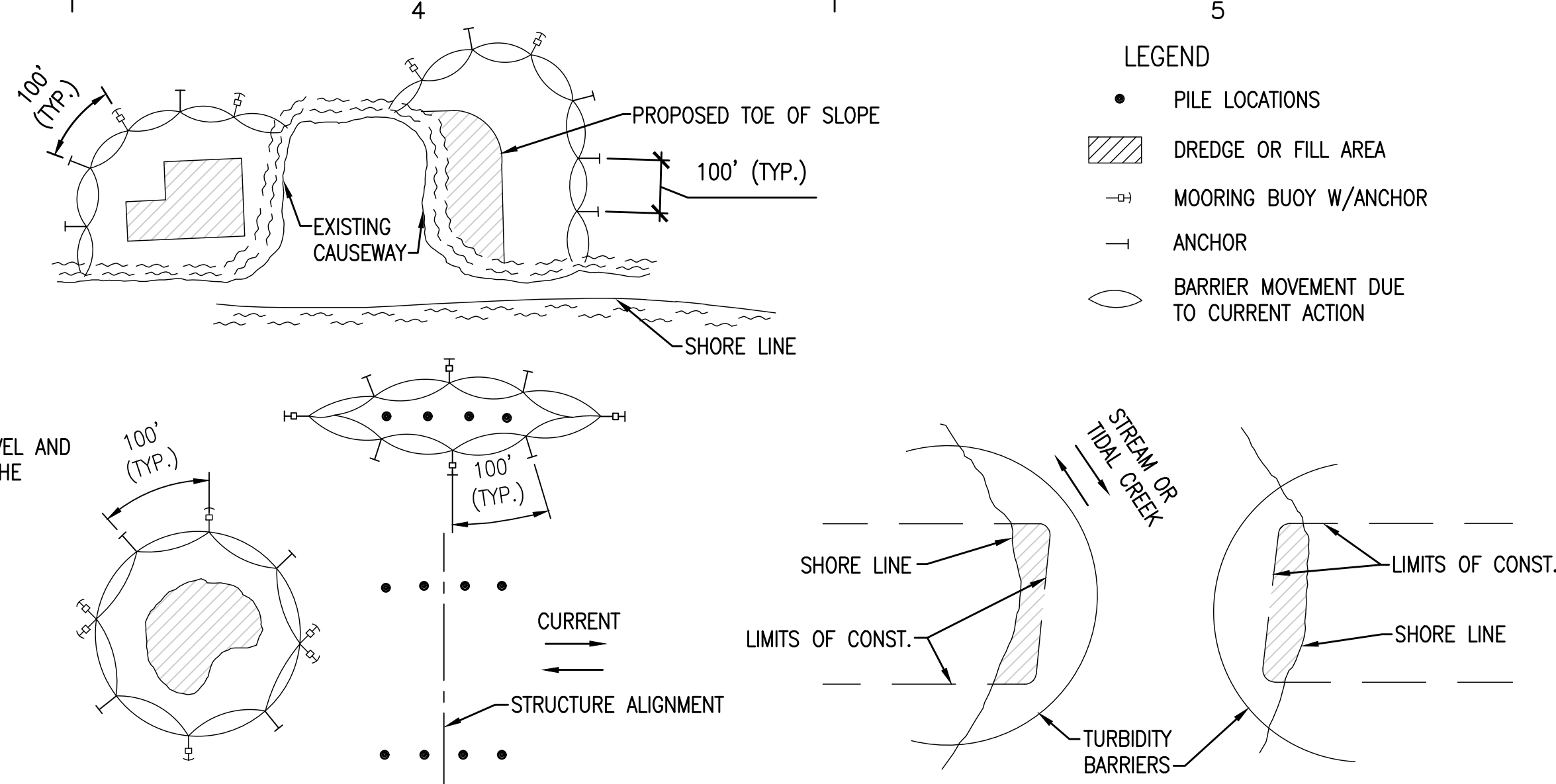


D1 STAKED TURBIDITY BARRIER
NOT TO SCALE



ANCHOR LOWER BALES WITH 2 - 2" X 2" X 4' STAKES PER BALE. ANCHOR TOP BALES TO LOWER BALES WITH 2 - 2" X 2" X 4' STAKES PER BALE.

C2 HAY BALE BARRIER FOR UNPAVED DITCHES
NOT TO SCALE

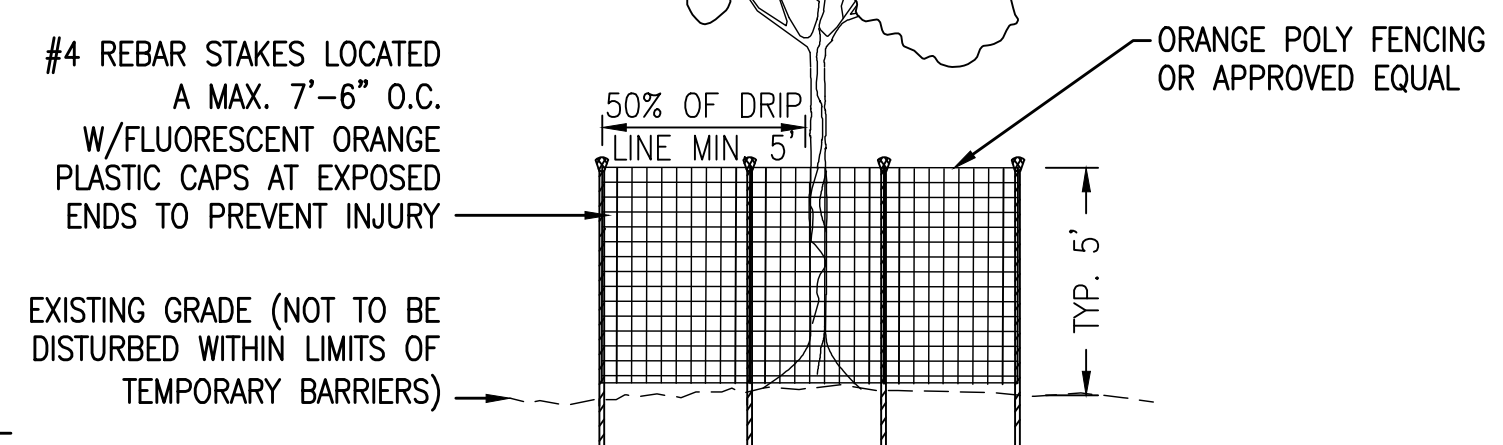


LEGEND
 ● PILE LOCATIONS
 ▨ DREDGE OR FILL AREA
 ○ MOORING BUOY W/ANCHOR
 — ANCHOR
 ○ BARRIER MOVEMENT DUE TO CURRENT ACTION

NOTES:
 1. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
 2. NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
 3. DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
 4. NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.

NOTE:
 TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATIONS OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPE(S) WILL BE AT THE CONTRACTORS OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS, AND/OR STAKED TURBIDITY BARRIER. POSTS IN STAKED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

C4 TURBIDITY BARRIER APPLICATIONS
NOT TO SCALE



C1 TREE PROTECTION DETAIL
NOT TO SCALE

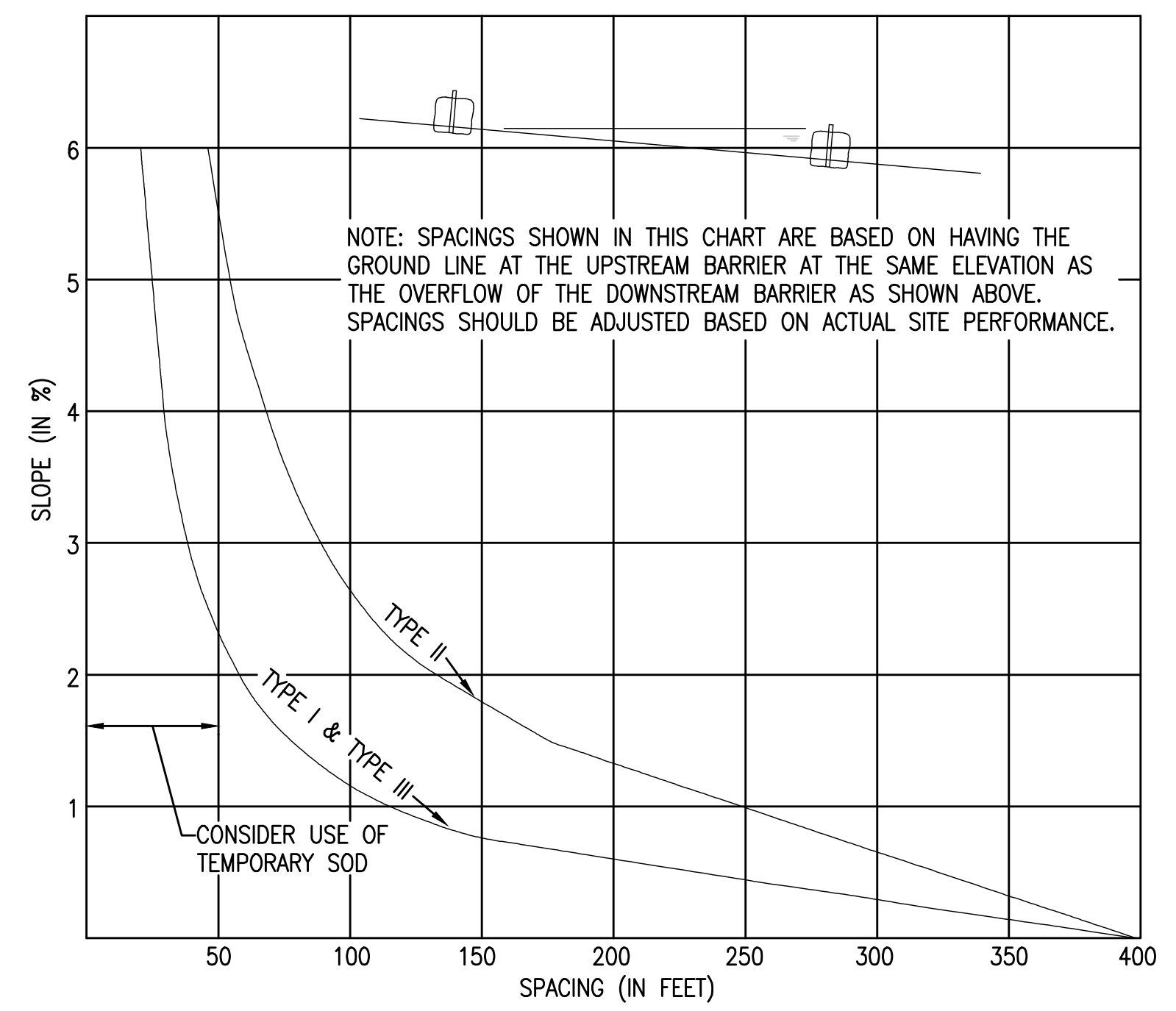
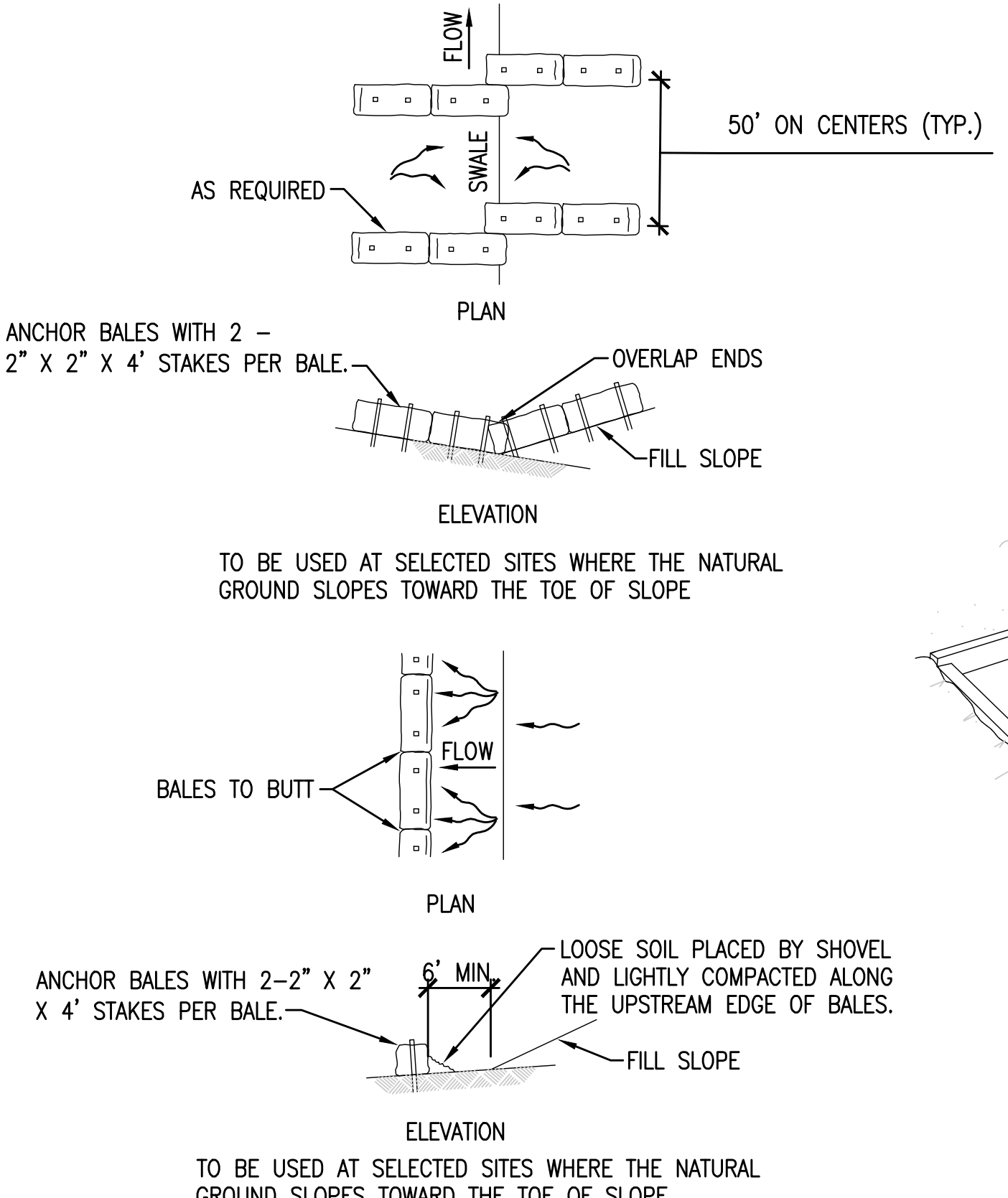
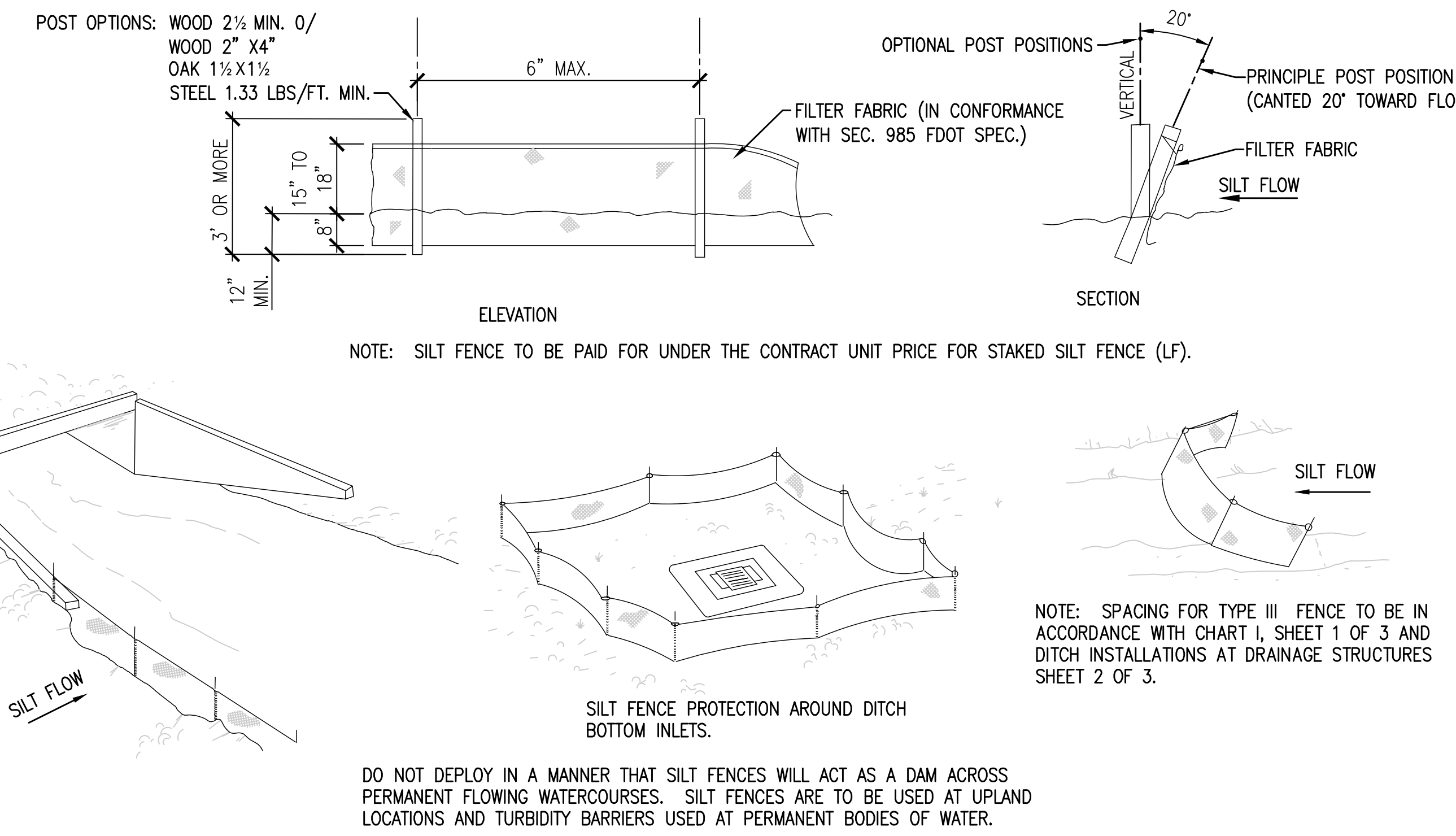


CHART I
RECOMMENDED SPACING FOR BALED HAY BARRIERS AND TYPE III SILT FENCE

A1 EROSION CONTROL BARRIER AND FENCE SPACING GUIDE
NOT TO SCALE



A2 HAY BALE BARRIERS FOR FILL SLOPES
NOT TO SCALE



NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

NOTE: SPACING FOR TYPE III FENCE TO BE IN ACCORDANCE WITH CHART I, SHEET 1 OF 3 AND DITCH INSTALLATIONS AT DRAINAGE STRUCTURES SHEET 2 OF 3.

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

A4 TYPE III SILT FENCE APPLICATIONS
NOT TO SCALE

BASKERVILLE-DONOVAN, INC.
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 449 W. MAIN ST., PENSACOLA, FL 32502 (850) 438-9861
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SSRUS SOUNDSIDE SEPTIC TANK ELIMINATION PROGRAM PHASE B
 SANTA ROSA COUNTY, FLORIDA

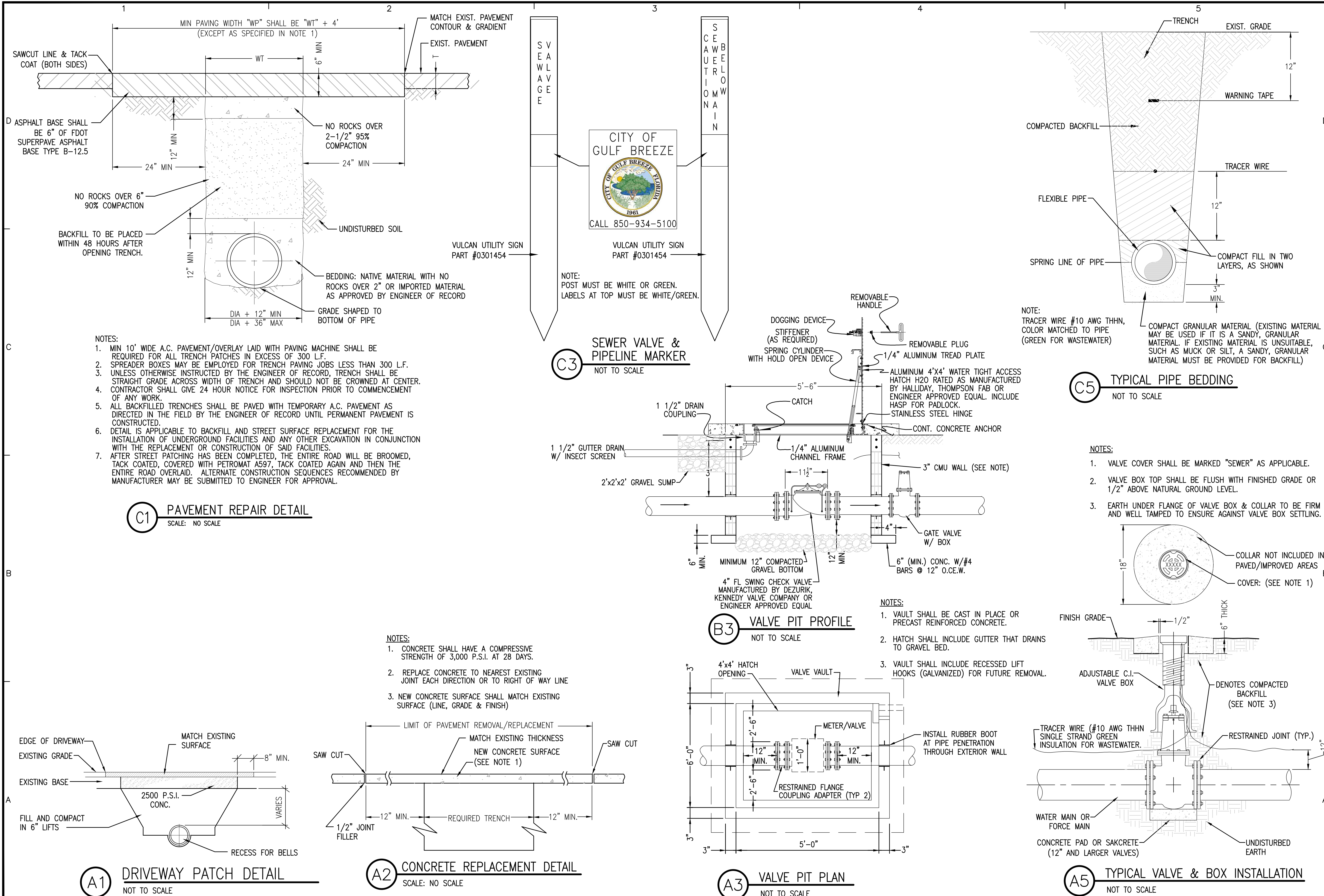
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STANDARD DETAILS

C-903

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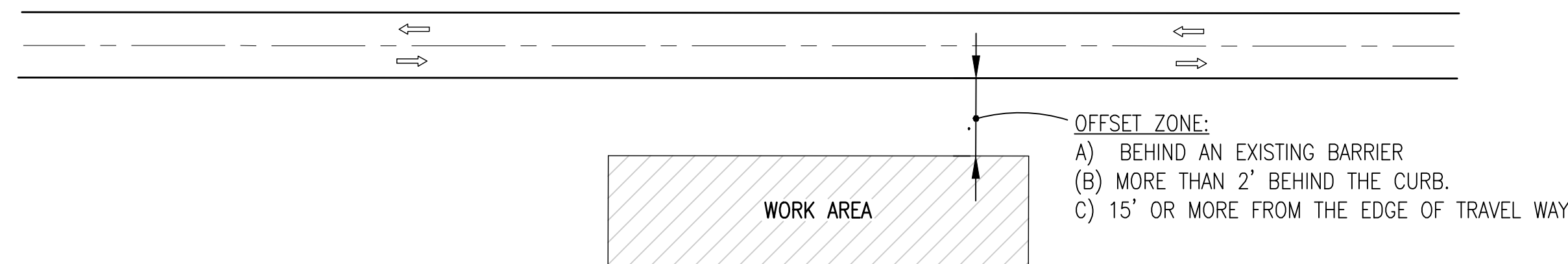


BASKERVILLE-DONOVAN, INC. Innovative Infrastructure Solutions 449 W. MAIN ST., PENSACOLA, FL 32502 (850) 438-9861 ENGINEERING BUSINESS: EE-0000340 Pensacola - Panama City Beach - Tallahassee - Mobile <small>This drawing is the property of BASKERVILLE-DONOVAN, INC. and is not to be reproduced in whole or in part. It is not to be used on any other project and is to be returned upon request.</small>	
SSRS SOUNDSIDE SEPTIC TANK ELIMINATION PROGRAM PHASE B SANTA ROSA COUNTY, FLORIDA	
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DESIGNED BY:	JEA
DRAWN BY:	THO
CHKD BY:	JEA
PROJ. MGR:	RWD
DATE:	FEBRUARY 2022
NO.	1
DATE	02/22
APPR.	JEA
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NOT RELEASED FOR CONSTRUCTION BY	DATE

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CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ARE BEHIND AN EXISTING BARRIER, MORE THAN 2' BEHIND THE CURB, OR 15' OR MORE FROM EDGE OF TRAVEL WAY.



OFFSET ZONE:

- A) BEHIND AN EXISTING BARRIER
- B) MORE THAN 2' BEHIND THE CURB.
- C) 15' OR MORE FROM THE EDGE OF TRAVEL WAY

C1 TRAFFIC CONTROL PLAN – TWO-LANE TWO-WAY, WORK OUTSIDE SHOULDER

NOT TO SCALE

SYMBOLS

- WORK AREA
- LANE IDENTIFICATION + DIRECTION OF TRAFFIC

GENERAL NOTES

1. IF THE WORK OPERATION (EXCLUDING ESTABLISHING AND TERMINATING THE WORK AREA) REQUIRES THAT TWO OR MORE WORK VEHICLES CROSS THE OFFSET ZONE IN ANY ONE HOUR, TRAFFIC CONTROL WILL BE IN CONFORMANCE WITH INDEX NO. 602.
2. NO SPECIAL SIGNING IS REQUIRED.
3. WHEN A SIDE ROAD INTERSECTS THE HIGHWAY WITHIN THE WORK AREA ADDITIONAL TTC DEVICES SHALL BE PLACED IN ACCORDANCE WITH OTHER APPLICABLE TCZ INDEXES.
4. WHEN CONSTRUCTION ACTIVITIES ENCR OACH ON A SIDEWALK REFER TO INDEX NO. 660.
5. FOR GENERAL TCZ REQUIREMENTS AND ADDITIONAL INFORMATION REFER TO INDEX NO. 600.

GENERAL LANE CLOSURE NOTES

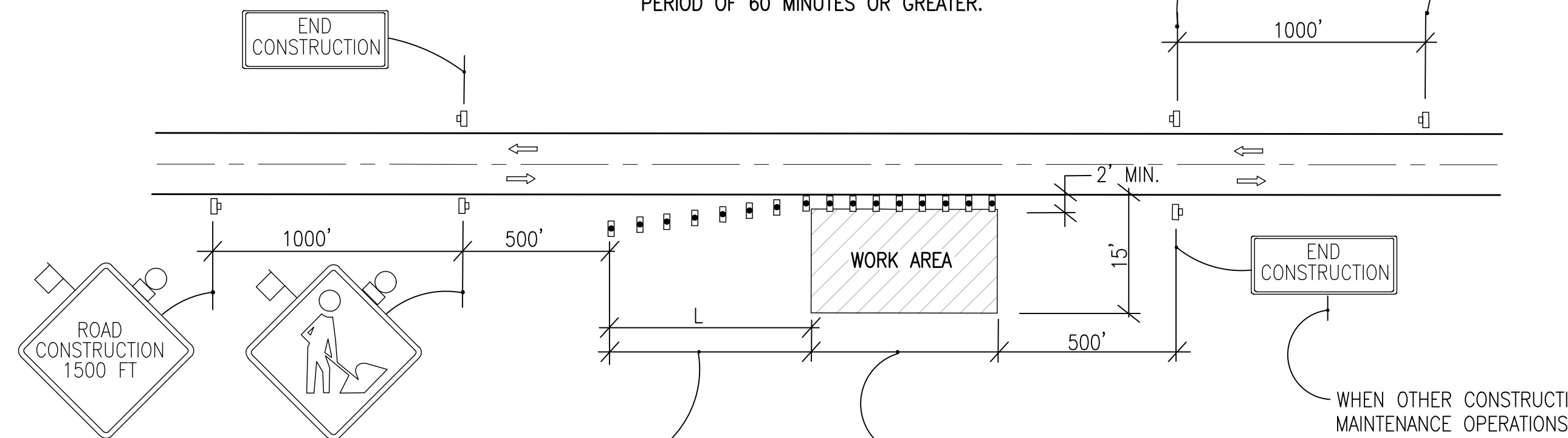
1. WORK OPERATIONS SHALL BE CONFINED TO ONE TRAFFIC LANE, LEAVING THE ADJACENT LANE OPEN TO TRAFFIC.
2. ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS 12 HOURS.
4. WHEN WORK IS BEING PERFORMED ON A MULTILANE UNDIVIDED ROADWAY THE SIGNS NORMALLY MOUNTED IN THE MEDIAN (AS SHOWN) SHALL BE OMITTED.

SYMBOLS

- WORK AREA
- SIGN WITH 18" X 18" (MIN.) ORANGE FLAG AND TYPE B LIGHT
- TYPE I OR TYPE II BARRICADE OR VERTICAL PANEL OR DRUM (W/ STEADY BURNING LIGHT AT NIGHT ONLY). CONES OR TUBULAR MARKERS MAY BE USED DURING DAYLIGHT ONLY.
- WORK ZONE SIGN

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH THE AREA CLOSER THAN 15' BUT NOT CLOSER THAN 2' TO THE EDGE OF PAVEMENT FOR A PERIOD OF 60 MINUTES OR GREATER.



MAXIMUM SPACING BETWEEN DEVICES (FT.) TO BE EQUAL TO THE SPEED LIMIT (MPH) BUT NOT GREATER THAN 25' FOR CONES OR TUBULAR MARKERS OR 50' FOR TYPE I OR TYPE II BARRICADES OR VERTICAL PANELS OR DRUMS.

CONES OR TUBULAR MARKERS AT 25' CENTERS AND TYPE I OR TYPE II BARRICADES OR VERTICAL PANELS OR DRUMS AT 50' CENTERS FOR FIRST 250', THEREAFTER CONES OR TUBULAR MARKERS AT 50' CENTERS AND TYPE I OR TYPE II BARRICADES OR VERTICAL PANELS OR DRUMS AT 100' CENTERS.

WHEN OTHER CONSTRUCTION OR MAINTENANCE OPERATIONS OCCUR WITHIN ONE (1) MILE, SIGN(S) TO BE OMITTED AND SIGNING TO BE COORDINATED IN ACCORDANCE WITH INDEX NO. 600.

C4 TRAFFIC CONTROL PLAN – SINGLE LANE

NOT TO SCALE

GENERAL NOTES

1. ALL VEHICLES, EQUIPMENT, WORKERS (EXCEPT FLAGGERS) AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE ROADWAY.
2. IF THE WORK OPERATION DOES NOT EXCEED 60 MINUTES, TRAFFIC CONTROL WILL BE IN CONFORMANCE WITH INDEX NO. 607.
3. IF THE WORK OPERATION ENCR OACHES ON THE THROUGH TRAFFIC LANES OR WHEN FOUR OR MORE WORK VEHICLES ENTER THE THROUGH TRAFFIC LANES IN A ONE HOUR PERIOD A FLAGGER SHALL BE PROVIDED AND A FLAGGER SIGN SHALL BE SUBSTITUTED FOR THE WORKERS SIGN. THE FLAGGER SHALL BE POSITIONED AT THE POINT OF VEHICLE ENTRY OR DEPARTURE FROM THE WORK AREA.
4. THE FIRST TWO WARNING SIGNS, EACH SIDE, SHALL HAVE A 18" X 18" (MIN.) ORANGE FLAG AND A TYPE B LIGHT ATTACHED AND OPERATING AT ALL TIMES. MESH SIGNS MAY BE USED FOR (DAYLIGHT ONLY) OPERATIONS. TYPE B LIGHTS AND ORANGE FLAGS ARE NOT REQUIRED.
5. THE WORKERS LEGEND SIGN MAY BE SUBSTITUTED FOR THE SYMBOL SIGN.
6. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE EXCEEDS 12 HOURS.
7. $L (MIN) = \frac{WS}{2}$ FOR SPEEDS ≥ 45 MPH
 $= \frac{WS^2}{120}$ FOR SPEEDS ≤ 40 MPH
 WHERE:
 W= WIDTH OF LATERAL TRANSITION IN FEET
 S= POSTED SPEED LIMIT (MPH).
8. ARROWS DENOTE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS.
9. LONGITUDINAL DIMENSIONS ARE TO BE ADJUSTED TO FIT FIELD CONDITIONS. SEE FDOT INDEX NO. 600.
10. WORKERS SIGNS TO BE REMOVED OR FULLY COVERED WHEN NO WORK IS BEING PERFORMED.
11. END CONSTRUCTION SIGNS REQUIRED ONLY WHEN WORK EXCEEDS ONE DAYLIGHT PERIOD.
12. WHEN A SIDE ROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERECTED IN ACCORDANCE WITH OTHER APPLICABLE TCZ INDEXES.
13. FOR GENERAL TCZ REQUIREMENTS AND ADDITIONAL INFORMATION, REFER TO FDOT INDEX 600.

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**MAINTENANCE OF TRAFFIC
 DETAILS**