

PETTWAY WATERMAIN EXPANSION HOBE SOUND, FLORIDA

MARTIN COUNTY

JUNE 2025

SOUTH MARTIN REGIONAL UTILITY (SMRU)



LOCATION MAPS (NTS)

INDEX OF PLANS

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C-8	ENGINEERING PLANS
C-9	ENGINEERING PLANS
C-10	ENGINEERING PLANS
C-11	DETAILS
C-12	DETAILS
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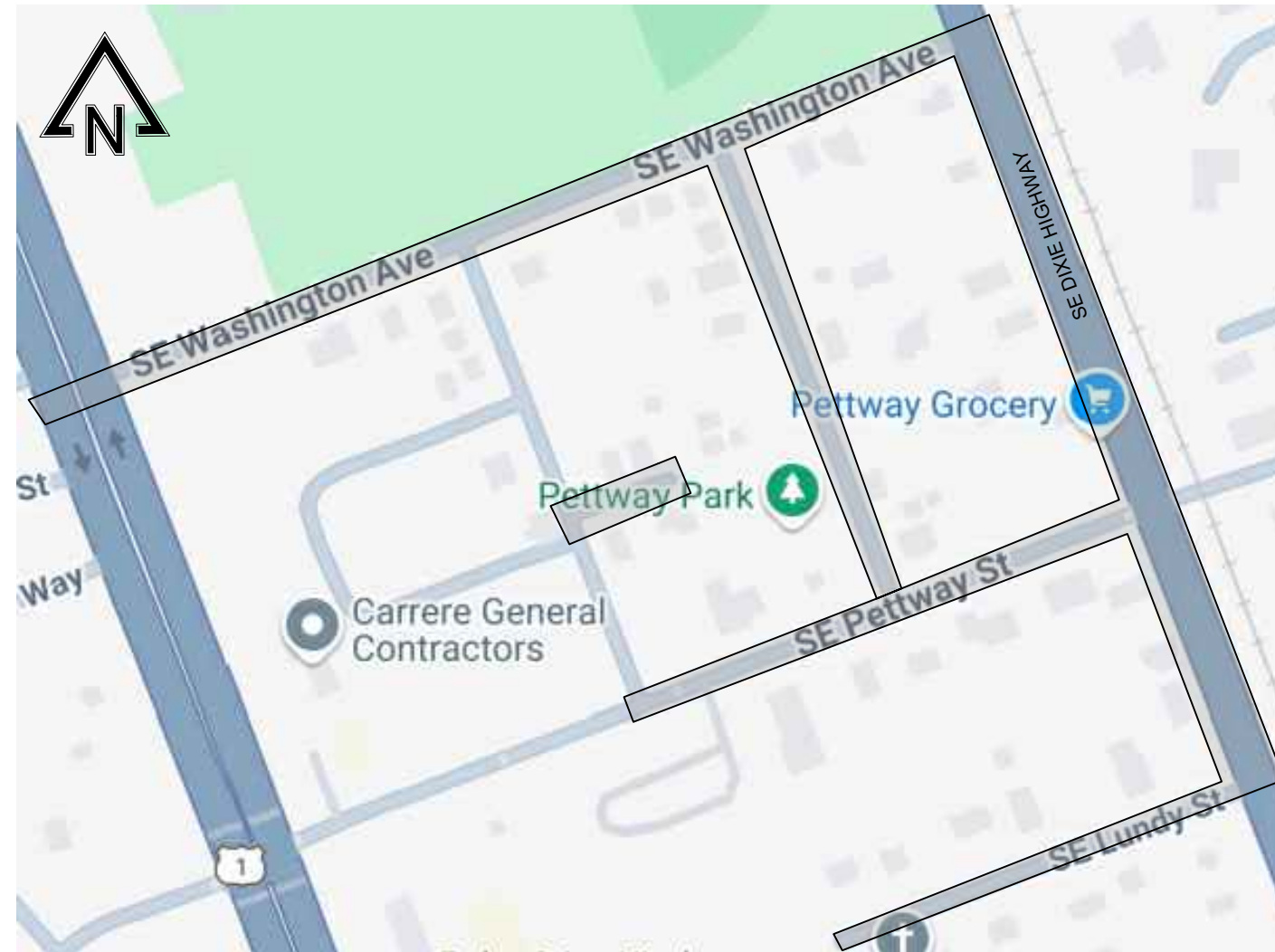
TOTAL NO OF SHEETS - 13



SE ROHL WAY

SE PETTWAY ST

SE PAGE ST



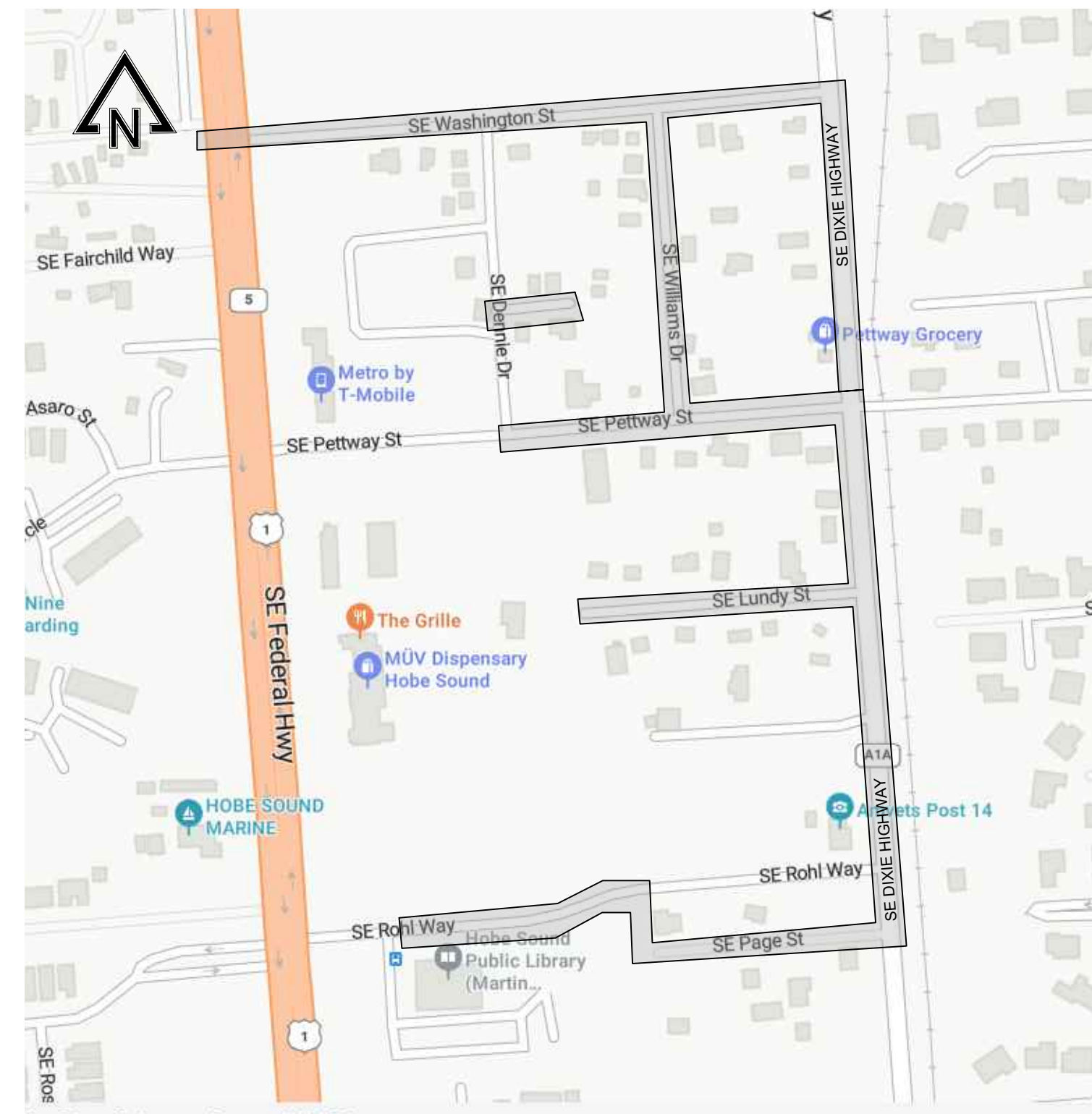
SE WASHINGTON AVE

SE PETTWAY ST

SE DIXIE HWY

SE RICH WAY

SE WILLIAMS DR



OVERALL SITE

PERMIT SET SUBMITTAL



Know what's **below**.
Call before you dig.

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REVISIONS		
NO.	DATE	REMARKS BY

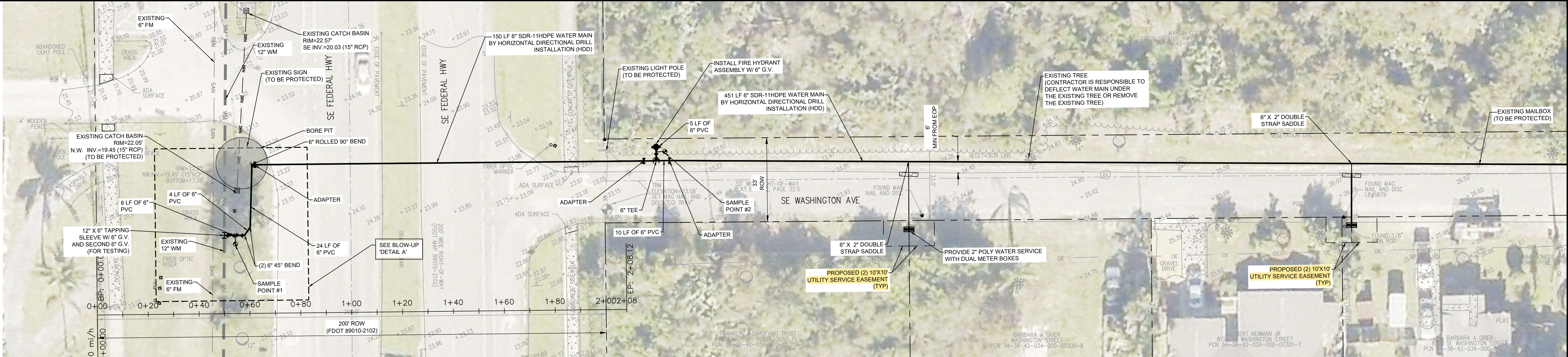
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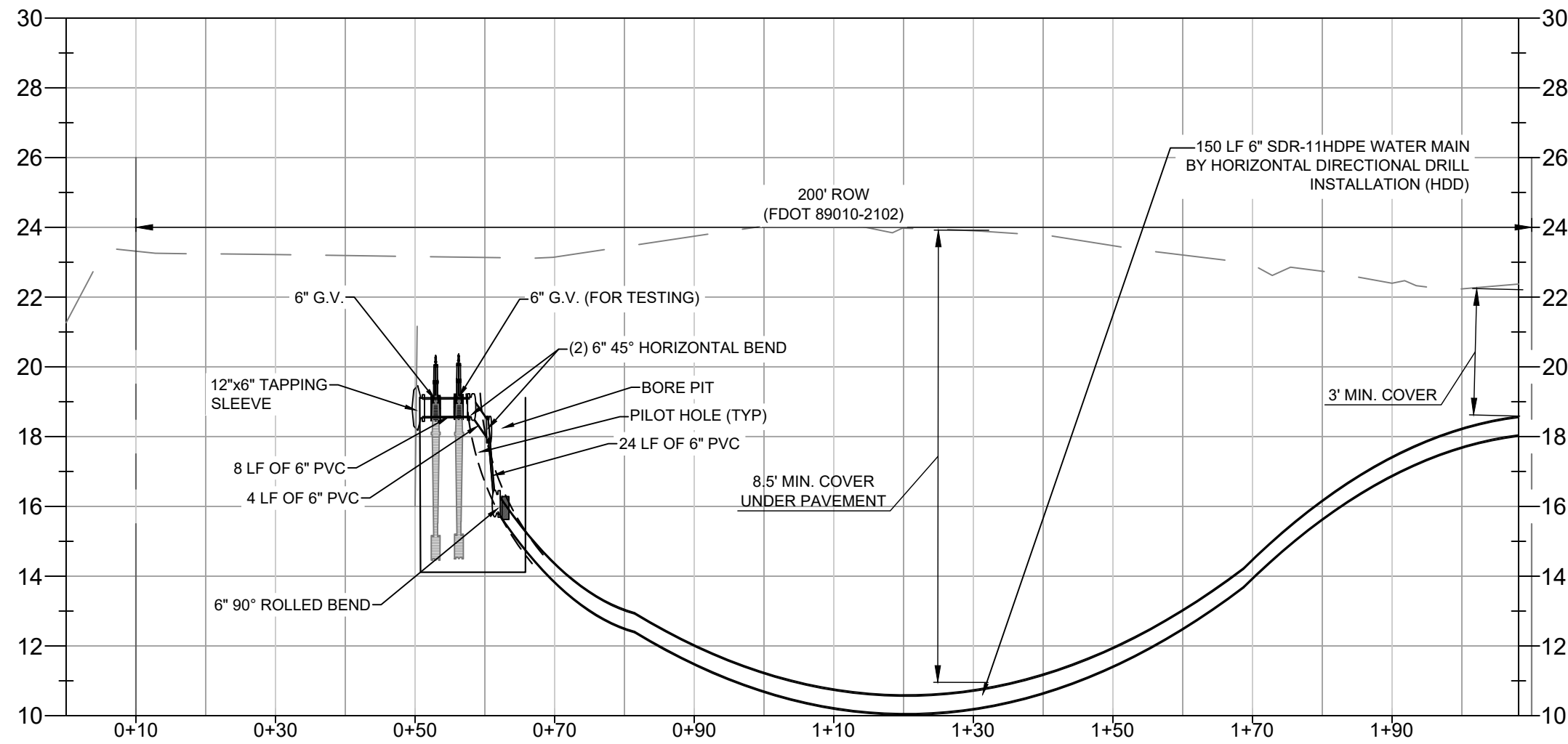
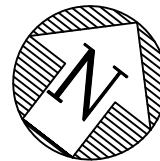
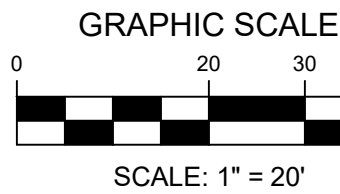
PETTWAY WATERMAIN EXPANSION
 HOBE SOUND, FLORIDA
 MARTIN COUNTY
 COVER



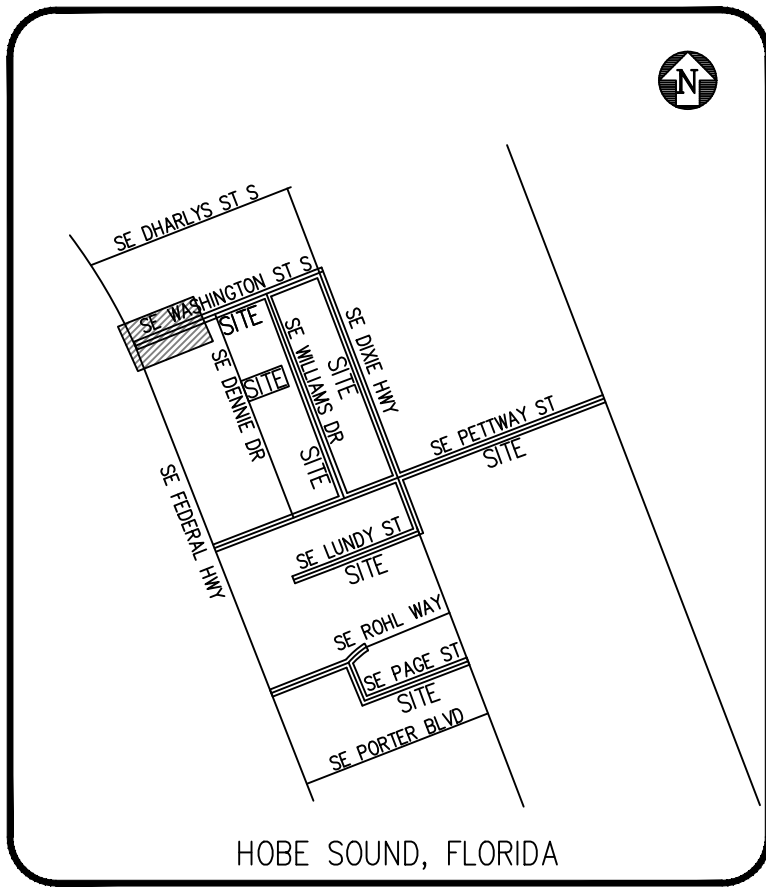
17120.23 JOB NO.	 C-1 13	DATE	JUNE 2025
		DRAWN	KG
		PROJECT ENGINEER	ACS
		PROJECT MANAGER	ACS
		CHECKED	ACS



MATCHLINE A-A (SEE SHEET C-3)



HORIZONTAL SCALE 1"=20'
VERTICAL SCALE 1"=4'



LOCATION MAP
N.T.S.

PERMIT SET
SUBMITTAL

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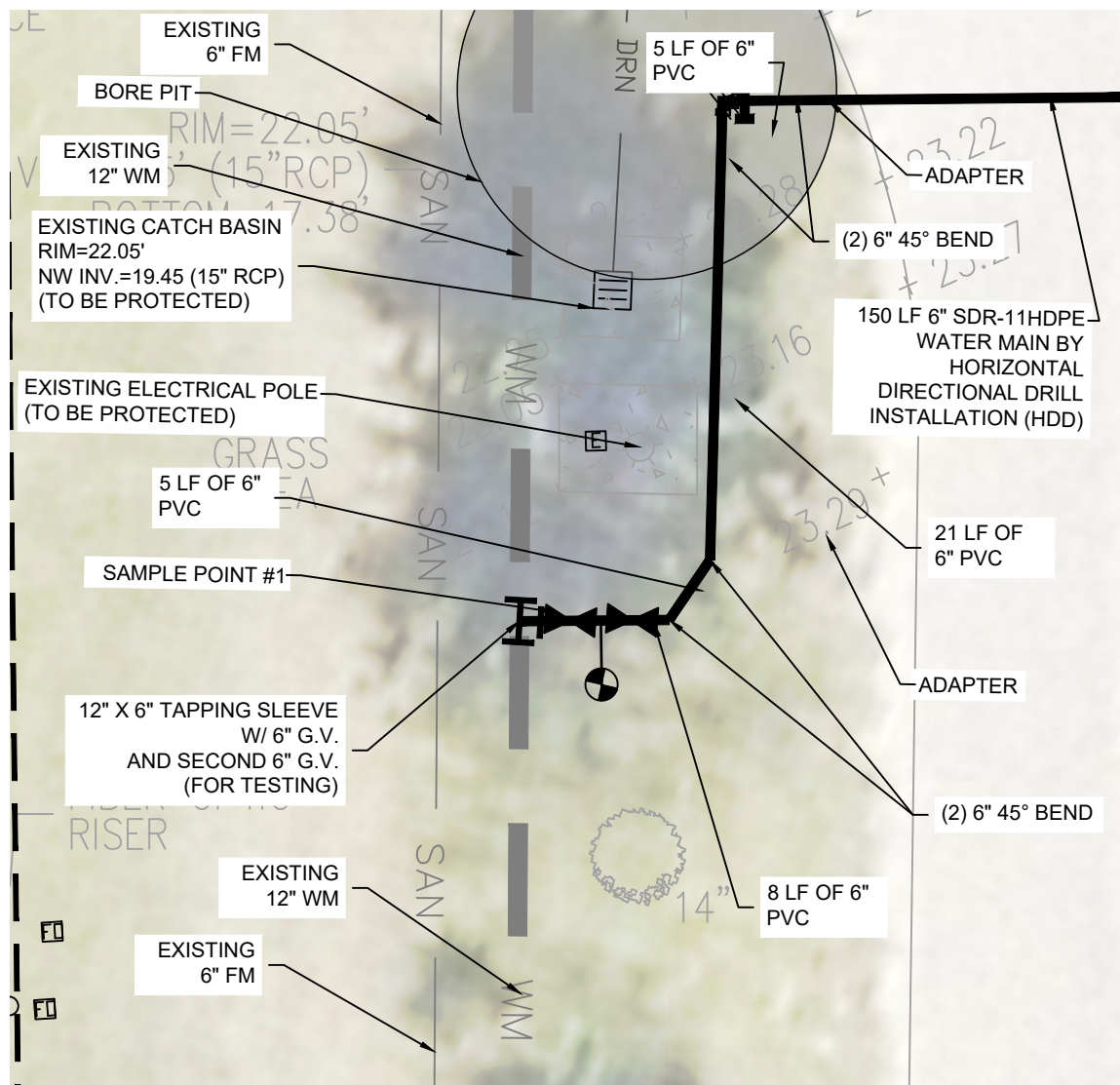
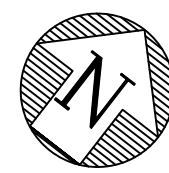
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PROPOSED ENGINEERING LEGEND:	
	FIRE HYDRANT ASSEMBLY
	FIRE DEPARTMENT CONNECTION
	GATE VALVE
	PROPOSED ELEVATION
	SINGLE WATER METER
	DOUBLE WATER METER
	MILLING & RESURFACE
	CONCRETE REPLACEMENT
	ASPHALT REPLACEMENT
	PVC/HDPE ADAPTER WATERMAIN
	BORE PIT

EXISTING LEGEND:	
	MEASURED ELEVATION
	CONCRETE
	CATCH BASIN
	FIRE HYDRANT
	WATER VALVE
	WATER METER
	REDUCER
	EXISTING WATER
	EXISTING SANITARY SEWER
	EXISTING FORCE MAIN
	EXISTING IRRIGATION MAIN
	EXISTING OVERHEAD ELECTRIC
	CENTERLINE WITH STATIONING

GENERAL NOTES:

- ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD.88) AND REFERENCE THE FOLLOWING BENCHMARK: L-LN (SEE SURVEY).
- ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
- TOPOGRAPHIC SURVEY PERFORMED BY ENGENUITY GROUP, INC. DATED 04/04/2022.
- ALL REMOVED DEBRIS & DEMOLISHED MATERIAL TO BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF.
- TRENCHES ARE TO BE DRY WHILE ALL PIPING IS BEING INSTALLED. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AND SHALL OBTAIN A DEWATERING WATER USE PERMIT FROM THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT PRIOR TO COMMENCING DEWATERING UNLESS THE WORK QUALIFIES FOR A 'NO-NOTICE' AUTHORIZATION AS DESCRIBED IN RULE 40E-20.302(3) OF THE FLORIDA ADMINISTRATIVE CODE.
- IF ISOLATION OF THE EXISTING WATER MAIN IS PROHIBITED/UNOBTAINABLE, AN INSERTION VALVE SHALL BE USED IN PLACE OF A GATE VALVE.
- EXISTING WATER MAIN WAS NOT LOCATED VIA SURVEY, AND WILL NEED TO BE FIELD VERIFIED.
- ALL UTILITY LOCATIONS MAY DEVIATE IN FIELD AND FROM THE PLAN. CONTRACTOR TO CALL 811 AND VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION. POTHOLES OF UTILITY CROSSINGS AND ENGINEER SHALL BE ADVISED OF ALL UTILITY CROSSING CLEARANCES/POTENTIAL CONFLICTS IS REQUIRED.
- CONTRACTOR SHALL PROVIDE SIGN AND SEALED RECORD DRAWINGS AND BORING LOGS.
- CONTRACTOR TO VERIFY WATER SERVICE HAS BEEN RE-SUPPLIED TO ALL AFFECTED PROPERTIES.
- CONTRACTOR IS RESPONSIBLE FOR ALL MAINTENANCE OF TRAFFIC AND WILL BE REQUIRED TO PROVIDE A MAINTENANCE OF TRAFFIC PLAN PREPARED BY A CERTIFIED FDOT MOT DESIGN FOR APPROVAL BY THE RELEVANT ENTITIES (ENGINEER, SMRU, MARTIN COUNTY, ETC).
- THE FOLLOWING UTILITY SERVICE PROVIDERS HAVE BEEN CONTACTED - FLORIDA POWER & LIGHT, COMCAST, AT&T, SPRINT AND THE MARTIN COUNTY TRAFFIC DIVISION. THESE PROVIDERS HAVE INDICATED THAT THEIR UNDERGROUND UTILITIES ARE NOT WITHIN THE IMPROVEMENT AREAS SHOWN ON THESE PLANS. HOWEVER, THIS INFORMATION DOES NOT ELIMINATE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY UTILITY LOCATIONS AND CONTACT 811 BEFORE CONSTRUCTION COMMENCEMENT.
- MINIMUM COVER: HDPE = 36"; PVC = 36".
- CONTRACTOR RESPONSIBLE FOR SHORING OF ALL OPEN CUT AREAS TO AVOID DAMAGE TO EXISTING ROADS, INCLUDING USE OF TRENCH BOX, IF NECESSARY.
- TOTAL OF 8 SAMPLE POINTS TO BE INSTALLED. REFER TO PLANS FOR SAMPLE POINT LOCATIONS.



BLOW-UP
DETAIL A
SCALE: 1"=10'

PETWAY WATERMAIN EXPANSION
HOBE SOUND, FLORIDA
MARTIN COUNTY
ENGINEERING PLANS



J:\Land Projects\RD17120-23 Expanded Petway Watermain\DWG17120-23 Eng_recover_recover.dwg DATE: 10/31/2025 11:17 AM

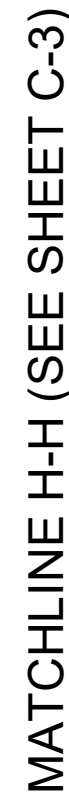
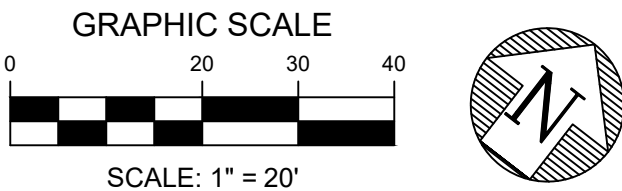
DATE	JUNE 2025	DRAWN	KG	PROJECT	ACS	ENGINEER	ACS	CHECKED	ACS
C-2									13
JOB NO.									17120.23

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NO. 72235

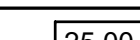
REVISIONS		
NO.	DATE	REMARKS

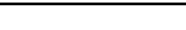




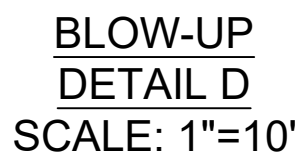
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ENGINEERING LEGEND:	
	FIRE HYDRANT ASSEMBLY
	FIRE DEPARTMENT CONNECTION
	GATE VALVE
	PROPOSED ELEVATION
	SINGLE WATER METER
	DOUBLE WATER METER
	GROUT EXISTING

EXISTING LEGEND:	
	MEASURED ELEVATION
	CONCRETE
	CATCH BASIN
	FIRE HYDRANT
	WATER VALVE
	WATER METER
	REDUCER
	EXISTING WATER
	EXISTING SANITARY SEWER
	EXISTING FORCE MAIN
	EXISTING IRRIGATION MAIN
	EXISTING OVERHEAD ELECTRIC
	CENTERLINE, WITH STATIONING

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3. ALL REMOVED DEBRIS & DEMOLISHED MATERIAL TO BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF.
4. TRENCHES ARE TO BE DRY WHILE ALL PIPING IS BEING INSTALLED. CONTRACTOR IS RESPONSIBLE FOR ALL DRAINAGE, EROSION, AND DETAILED DRAINAGE WATER USE PERMIT FROM THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT PRIOR TO COMMENCING DRAINAGE UNLESS THE WORK QUALIFIES FOR A 'NO-NOTICE' AUTHORIZATION AS DESCRIBED IN RULE 40E-20.30(2) OF THE FLORIDA ADMINISTRATIVE CODE.
5. IF ISOLATION OF THE EXISTING WATER MAIN IS PROHIBITED/UNOBTAINABLE, AN INSERTION VALVE SHALL BE USED IN PLACE OF A GATE VALVE.
6. EXISTING WATER MAIN WAS NOT LOCATED VIA SURVEY, AND WILL NEED TO BE FIELD VERIFIED.
7. ALL UTILITY LOCATIONS MAY DEViate IN FIELD AND FROM THE PLAN. CONTRACTOR TO CALL 811 AND VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION. POTHOLING OF UTILITY CROSSINGS AND ENGINEER SHALL BE ADVISED OF ALL UTILITY CROSSING CLEARANCES/POTENTIAL CONFLICTS IS REQUIRED.
8. CONTRACTOR SHALL PROVIDE SIGN AND SEALED RECORD DRAWINGS AND BORING LOGS.
9. CONTRACTOR TO VERIFY WATER SERVICE HAS BEEN RE-SUPPLIED TO ALL AFFECTED PROPERTIES.
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11. THE FOLLOWING UTILITY SERVICE PROVIDERS HAVE BEEN CONTACTED - FLORIDA POWER & LIGHT, COMCAST, AT&T, SPRINT AND THE MARTIN COUNTY TRAFFIC DIVISION. THESE PROVIDERS HAVE INDICATED THAT THEIR UNDERGROUND UTILITIES ARE NOT WITHIN THE IMPROVEMENT AREAS SHOWN ON THESE PLANS. HOWEVER, THIS INFORMATION DOES NOT ELIMINATE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY UTILITY LOCATIONS AND CONTACT 811 BEFORE CONSTRUCTION COMMENCEMENT.
12. MINIMUM COVER: HDPE = 36"; PVC = 36".
13. CONTRACTOR RESPONSIBLE FOR SHORINGS OF ALL OPEN CUT AREAS TO AVOID DAMAGE TO EXISTING ROADS, INCLUDING USE OF TRENCH BOX, IF NECESSARY.
14. TOTAL OF 8 SAMPLE POINTS TO BE INSTALLED. REFER TO PLANS FOR SAMPLE POINT LOCATIONS.



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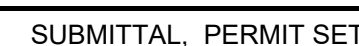
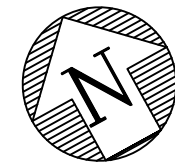
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**PETTWAY WATERMAIN EXPANSION
HOBE SOUND, FLORIDA
MARTIN COUNTY
ENGINEERING PLANS**

ENGINEERING PLANS

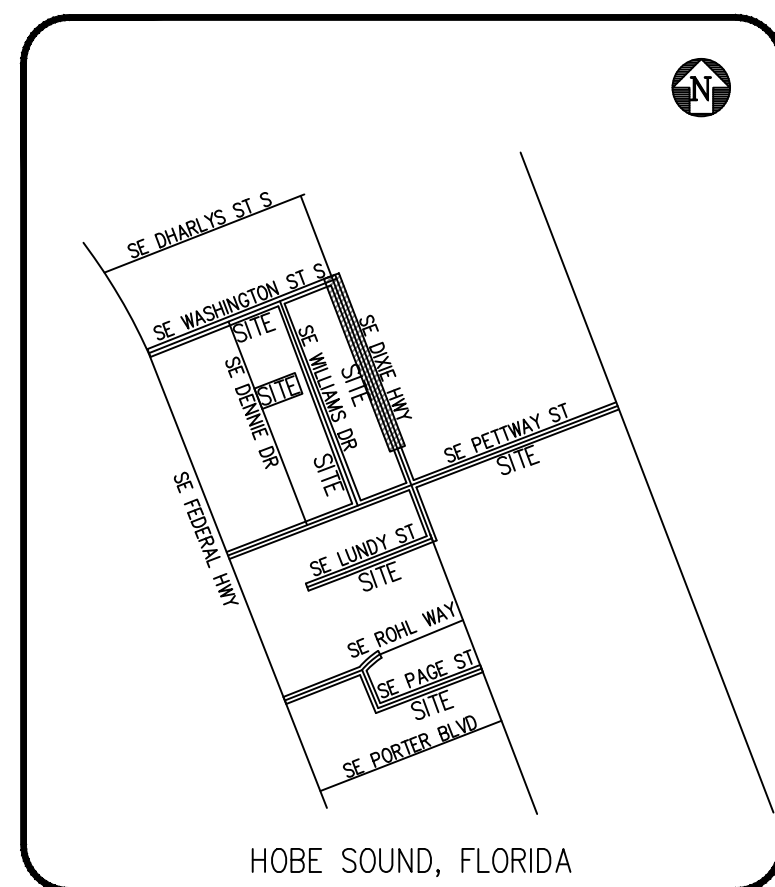
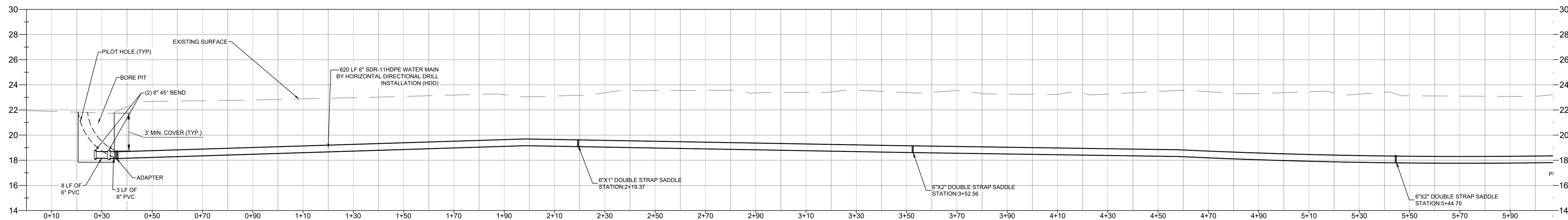


C-4 13		JUNE 2025
	DRAWN	KG
	PROJECT ENGINEER	ACS
	PROJECT MANAGER	ACS
	CHECKED	ACS
JOB NO. 17120.23		



MATCHLINE C-C (SEE SHEET C-3)

SE DIXIE HIGHWAY PROFILE



LOCATION MAP
N.T.S.

PERMIT SET SUBMITTAL

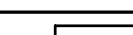
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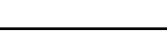


Know what's below.
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PROPOSED

	CONCRETE SIDEWALK REPLACEMENT
	PAVEMENT REPLACEMENT
	BORE PIT
	PVC/HDPE ADAPTER WATERMAIN

ENGINEERING LEGEND:	
	FIRE HYDRANT ASSEMBLY
	FIRE DEPARTMENT CONNECTION
	GATE VALVE
	PROPOSED ELEVATION
	SINGLE WATER METER
	DOUBLE WATER METER
	GROUT EXISTING

EXISTING LEGEND:	
	MEASURED ELEVATION
	CONCRETE
	CATCH BASIN
	FIRE HYDRANT
	WATER VALVE
	WATER METER
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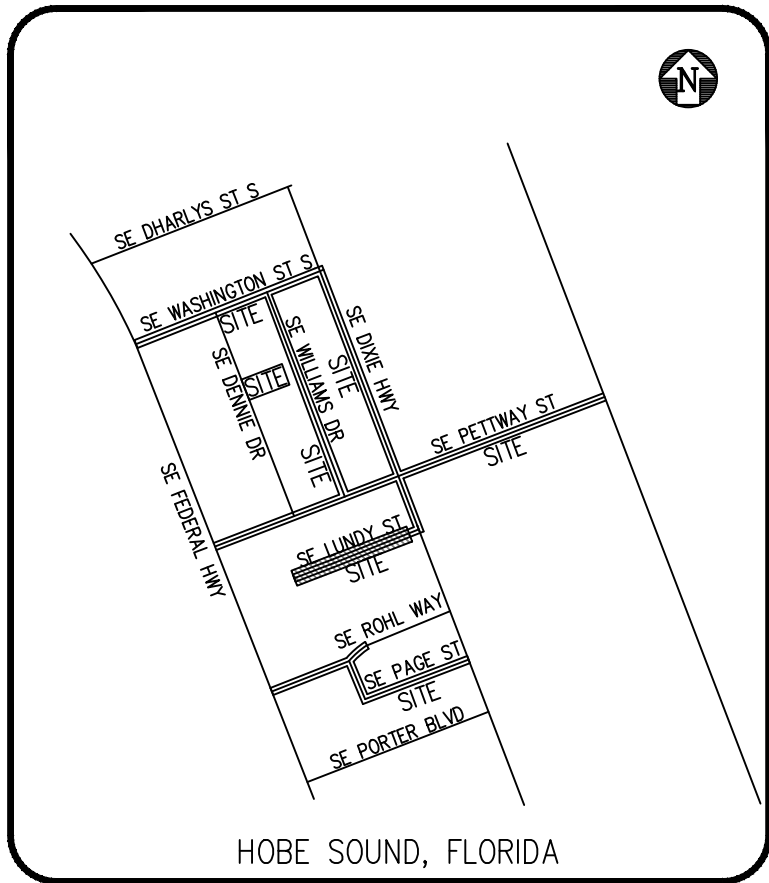
**PETTWAY WATERMAIN EXPANSION
HOBE SOUND, FLORIDA
MARTIN COUNTY
ENGINEERING PLANS**

ENGINEERING PLANS



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WWW.ENGINEITYGROUP.COM CERTIFICATE OF AUTHORIZATION #70995

JUNE 2025		DATE
C-6 13	DRAWN	KG
	PROJECT ENGINEER	ACS
	PROJECT MANAGER	ACS
	CHECKED	ACS



LOCATION MAP
N.T.S.

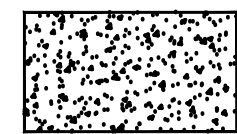
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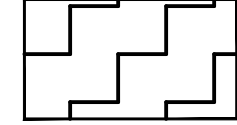


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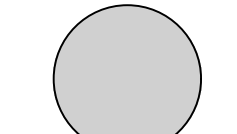
PROPOSED



CONCRETE SIDEWALK REPLACEMENT



PAVEMENT REPLACEMENT



BORE PIT



PVC/HDPE ADAPTER WATERMAIN

ENGINEERING LEGEND:

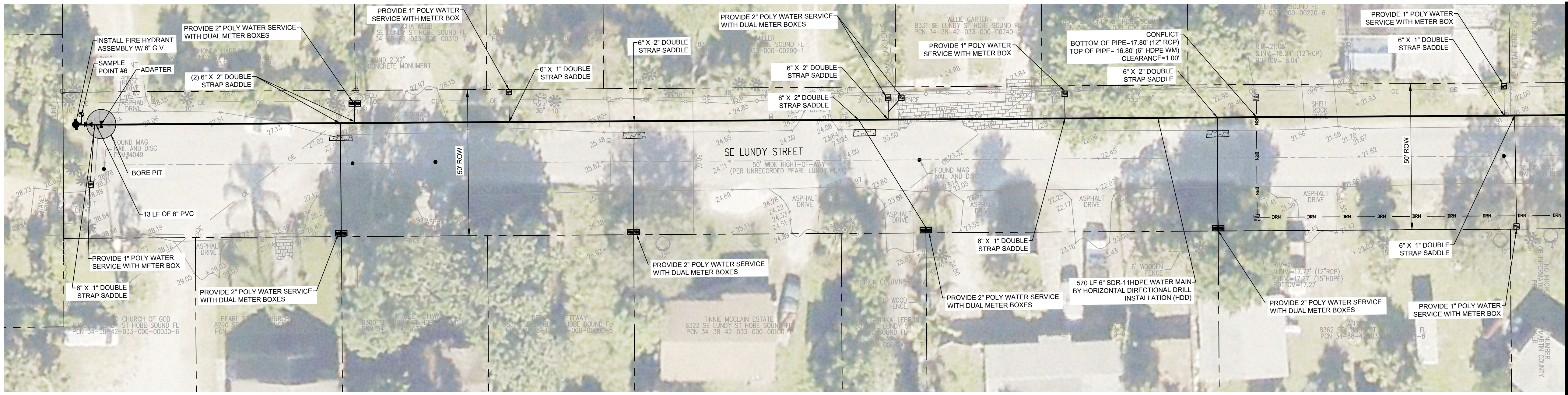
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	DOUBLE WATER METER
	GROUT EXISTING

EXISTING LEGEND:

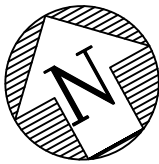
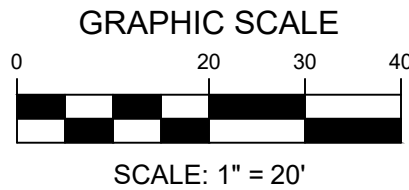
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- MINIMUM COVER: HDPE = 36"; PVC = 36".
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- TOTAL OF 8 SAMPLE POINTS TO BE INSTALLED. REFER TO PLANS FOR SAMPLE POINT LOCATIONS.



MATCHLINE 1-I (SEE SHEET C-7)



J:\Land Projects\RT17120.23 Expanded Pettway Watermain\DWG17120.23 Eng_recover_recover.dwg DATE: 10/31/2025 11:17 AM



1280 N CONGRESS AVE, SUITE 101
WEST PALM BEACH, FLORIDA 33409
PH (561)655-1151 • FAX (561)832-5390
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PROJECT ENGINEER	ACS
PROJECT MANAGER	ACS
CHECKED	ACS
JOB NO.	17120.23

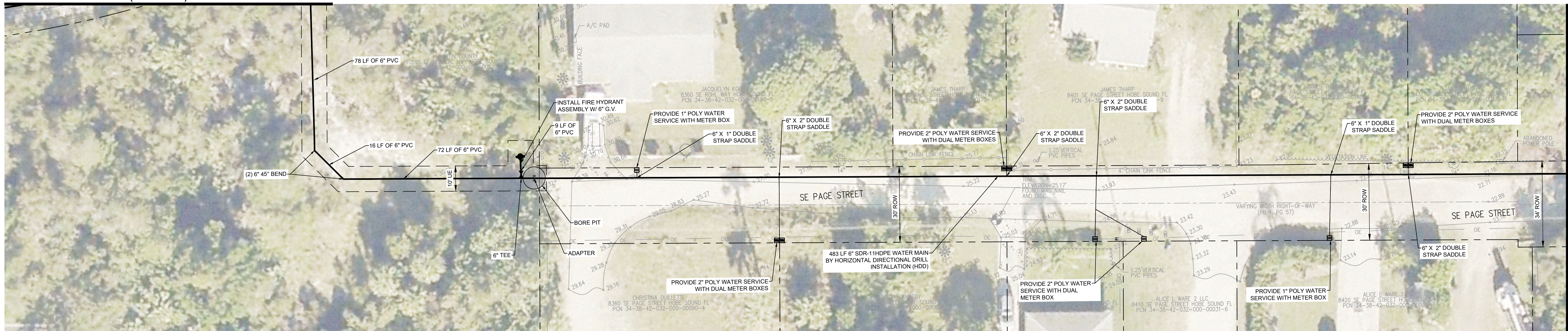
PETTWAY WATERMAIN EXPANSION HOBE SOUND, FLORIDA MARTIN COUNTY ENGINEERING PLANS

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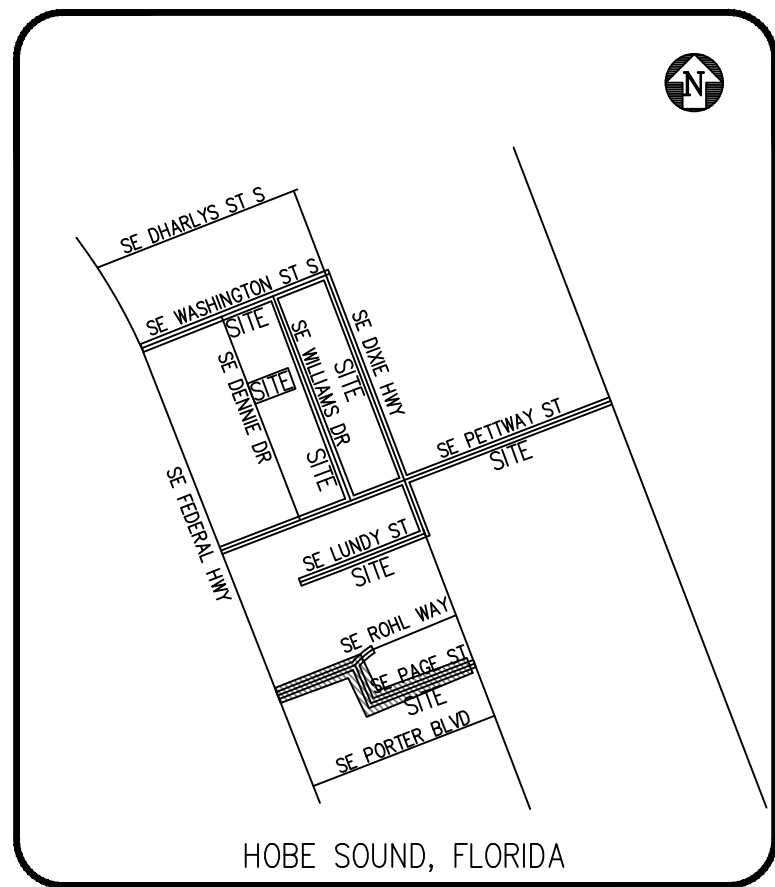
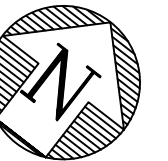
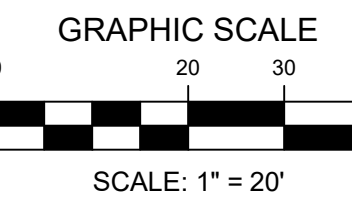
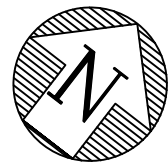
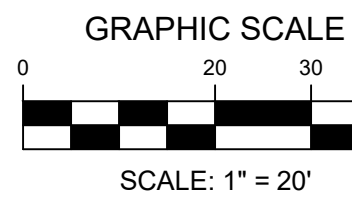
ADAM SWANEY, P.E.
NO. 72235

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MATCHLINE (SEE L-L)



MATCHLINE K-K (SEE SHEET C-8)



LOCATION MAP
N.T.S.

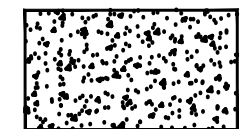
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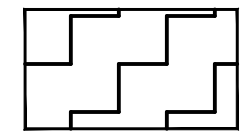


Know what's below.
Call before you dig.

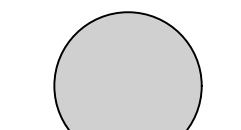
PROPOSED



CONCRETE SIDEWALK REPLACEMENT



PAVEMENT REPLACEMENT



BORE PIT



ENGINEERING LEGEND:

	FIRE HYDRANT ASSEMBLY
	FIRE DEPARTMENT CONNECTION
	GATE VALVE
	PROPOSED ELEVATION
	SINGLE WATER METER
	DOUBLE WATER METER
	GROUT EXISTING

EXISTING LEGEND:

	MEASURED ELEVATION
	CONCRETE
	CATCH BASIN
	FIRE HYDRANT
	WATER VALVE
	WATER METER
	REDUCER
	EXISTING WATER
	EXISTING SANITARY SEWER
	EXISTING FORCE MAIN
	EXISTING IRRIGATION MAIN
	EXISTING OVERHEAD ELECTRIC
	CENTERLINE WITH STATIONING

GENERAL NOTES:

- ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND REFERENCE THE FOLLOWING BENCHMARK: L-1N (SEE SURVEY).
- ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
- TOPOGRAPHIC SURVEY PERFORMED BY ENGENUITY GROUP, INC. DATED 04/04/2022.
- ALL REMOVED DEBRIS & DEMOLISHED MATERIAL TO BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF.
- TRENCHES ARE TO BE DRY WHILE ALL PIPING IS BEING INSTALLED. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING AND SHALL OBTAIN A DEWATERING WATER USE PERMIT FROM THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT PRIOR TO COMMENCING DEWATERING UNLESS THE WORK QUALIFIES FOR A 'NO-NOTICE' AUTHORIZATION AS DESCRIBED IN RULE 40E-20.302(3) OF THE FLORIDA ADMINISTRATIVE CODE.
- IF ISOLATION OF THE EXISTING WATER MAIN IS PROHIBITED/UNOBTAINABLE, AN INSERTION VALVE SHALL BE USED IN PLACE OF A GATE VALVE.
- EXISTING WATER MAIN WAS NOT LOCATED VIA SURVEY, AND WILL NEED TO BE FIELD VERIFIED.
- ALL UTILITY LOCATIONS MAY DEViate IN FIELD AND FROM THE PLAN. CONTRACTOR TO CALL 811 AND VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION. POTHOLES OF UTILITY CROSSINGS AND ENGINEER SHALL BE ADVISED OF ALL UTILITY CROSSING CLEARANCES/POTENTIAL CONFLICTS IS REQUIRED.
- CONTRACTOR SHALL PROVIDE SIGN AND SEALED RECORD DRAWINGS AND BORING LOGS.
- CONTRACTOR TO VERIFY WATER SERVICE HAS BEEN RE-SUPPLIED TO ALL AFFECTED PROPERTIES.
- CONTRACTOR IS RESPONSIBLE FOR ALL MAINTENANCE OF TRAFFIC AND WILL BE REQUIRED TO PROVIDE A MAINTENANCE OF TRAFFIC PLAN PREPARED BY A CERTIFIED FDOT MOT DESIGN FOR APPROVAL BY THE RELEVANT ENTITIES (ENGINEER, SMRU, MARTIN COUNTY, ETC).
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DATE	JUNE 2025	DRAWN	KG	PROJECT	ACS	ENGINEER	ACS	CHECKED	ACS
TIME	11:00	C-10							
JOB NO.									17120.23

PETTWAY WATERMAIN EXPANSION
HOBE SOUND, FLORIDA
MARTIN COUNTY
ENGINEERING PLANS

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NO. 72235

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NO.	DATE	REMARKS	BY

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, SPECIFICATIONS, DETAILS AND THE SOUTH MARTIN REGIONAL UTILITY REGULATIONS, POLICIES AND PROCEDURES.

- WARNING: EXACT LOCATION OF UNDERGROUND UTILITIES IS NOT KNOWN NOR IS THIS DRAWING TO BE CONSTRUED AS DEPICTING THE LOCATION OF ALL UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINATION OF LOCATION PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR IS RESPONSIBLE, THEREFORE, FOR ALL DAMAGE AND REPAIR COSTS.

9. DENSITY TESTS OF TRENCH BACKFILL MATERIAL SHALL BE REQUIRED AT INTERVALS OF NOT MORE THAN 500 FEET. DENSITY TESTS OF PAVEMENT OPEN-CUT AREAS INCLUDING ROADWAYS, DRIVEWAYS, SIDEWALKS, AND PARKING AREAS SHALL BE REQUIRED AT EACH OPEN-CUT AT INTERVALS OF NOT MORE THAN 50 FEET. ALL TESTS SHALL COMMENCE AT THE TOP OF CONDUIT AND EVERY 12 INCHES TO THE FINISH GRADE. COMPACTION SHALL BE IN ACCORDANCE WITH THE NEPADES CONSTRUCTION STANDARD SPECIFICATIONS (FLORIDA DETAIL "ADJUSTABLE PAVEMENT REPLACEMENT DETAIL", FLORIDA BEARING TESTS FOR THE STABILITY OF EXISTING SUBSOIL SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 500 FEET, AND CLOSER AS MIGHT BE NECESSARY IN THE EVENT OF VARIATIONS IN THE STRATA. A CERTIFIED COPY OF THE TESTS SHALL BE PROVIDED TO SMRU AND THE FLORIDA DEPARTMENT OF TRANSPORTATION, JUPITER ISLAND PUBLIC WORKS DEPARTMENT, OR MARTIN COUNTY ENGINEERING DEPARTMENT, DEPENDING ON JURISDICTION.
9. ANY LANDSCAPING DISTURBED, UNLESS OTHERWISE SHOWN ON THE PLANS, SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF SMRU.
10. ANY WALK, CURB AND GUTTER OR PAVEMENT DISTURBED, UNLESS OTHERWISE SHOWN ON PLANS, SHALL BE REPLACED BY THE CONTRACTOR. ALL CONSTRUCTION SHALL MEET ADA REQUIREMENTS.
11. ALL SOD IS TO BE PLACED FOR THE FULL WIDTH DISTURBED AND INSTALLED AT THE SAME ELEVATION EXISTING SOD WITH THE EDGES MATCHING EXISTING ELEVATION. SOD SHALL BE REPLACED TO MATCH EXISTING GROUND UNLESS OTHERWISE SHOWN ON PLANS.
12. CONTRACTOR SHALL PROVIDE PROPER BENCHES TO MAINTAIN REQUIRED DEPTH AND ALIGNMENT OF PIPE.
13. ANY TREES AND/OR SCRUB OR OTHER VEGETATION NOT TO BE REPLACED SHALL BE REMOVED FROM THE PROJECT.
14. ALL RUBBLE AND UNSUITABLE MATERIAL MUST BE REMOVED FROM THE PROJECT AND DISPOSED OF PROPERLY BY THE CONTRACTOR.
15. MAILBOXES MUST BE CAPABLE OF RECEIVING MAIL AT ALL TIMES.
16. DEFLECT PIPE AS NECESSARY TO OBTAIN THE REQUIRED ALIGNMENT. USE APPROPRIATE FITTINGS WHEN DEFLECTION EXCEEDS 75% OF MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION.
17. ALL FITTINGS SHALL BE MECHANICALLY RESTRAINED. RESTRAINTS SHALL BE MEG-A-LUG, TYLER OR UNIFLANGE.
18. ALL CONSTRUCTION DOWATERING (WELL POINTS, PUMPS, ETC.) WILL REQUIRE A DOWATERING PERMIT FROM SMRU PRIOR TO CONSTRUCTION. THE PERMIT SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO BEGINNING OF CONSTRUCTION.
19. THE "TRENCH SAFETY ACT" SHALL BE INCORPORATED INTO THIS CONTRACT AS ENACTED BY THE LEGISLATURE OF THE STATE OF FLORIDA TO BE IN EFFECT AS OF OCTOBER 1, 1990.
20. A MARTIN COUNTY U-2 PERMIT IS REQUIRED FOR ALL WORK WITHIN COUNTY RIGHT-OF-WAY. THIS PERMIT MUST BE OBTAINED BY THE CONTRACTOR FROM THE MARTIN COUNTY ENGINEERING DEPARTMENT. A COPY OF THIS PERMIT MUST BE MAINTAINED ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
21. ALL CONCRETE AND ASPHALT DRIVES MUST BE CUT FROM SAW CUT TO EDGE OF PAVEMENT.
22. LOCATIONS OF FIRE HYDRANTS AND AIR RELEASE VALVES ARE APPROXIMATE ONLY. FINAL LOCATIONS WILL BE APPROVED BY SMRU PERSONNEL IN FIELD.

2. MAXIMUM LENGTH OF WATER MAIN AND FORCE MAIN PRESSURE TEST SHALL BE 2,000 FEET POLY MANUAL 2.2.23. WATER SOURCE FOR FLUSHING, FILLING AND PRESSURE TESTING THE MAIN SHALL BE FROM A TREATED SOURCE APPROVED BY SMRU INCLUDING AN SMRU TEMPORARY METER WITH BACKFLOW PREVENTION DEVICE.
24. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND RESTORATION (IF DAMAGED) OF ALL EXISTING STRUCTURES WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT, INCLUDING BUT NOT LIMITED TO WALLS, FENCES, POWER POLES, MAIL BOXES, DRAINAGE PIPES AND STRUCTURES, ETC.
25. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING WATER SERVICES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROTECT THE EXISTING WATER SERVICES FROM DAMAGE AND REPAIR ANY BREAKS IMMEDIATELY.
26. "RECORD DRAWINGS" SHALL INCLUDE FURNISHING SMRU WITH ALL INFORMATION NECESSARY FOR A COMPLETE SET OF RECORD DRAWINGS AS STIPULATED IN THE SMRU REGULATIONS, POLICIES AND PROCEDURES.
27. MECHANICALLY RESTRAIN THREE (3) FULL LENGTHS EACH SIDE OF ALL BENDS. MECHANICAL RESTRAINTS SHALL BE EITHER MEC-A-LUG, TYLER OR UNIFLANGE. THE CONTRACTORS BID PRICE FOR PIG-GATE VALVES AND FITTINGS SHALL INCLUDE MECHANICAL RESTRAINT.
28. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND SHORE TRENCH AS REQUIRED TO PROTECT AND MAINTAIN EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY EACH UTILITY PRIOR TO ATTEMPTING TO SUPPORT THEIR FACILITIES. THE UTILITY REQUIRES THAT ONLY THEIR CREWS SHALL BE ALLOWED TO SUPPORT THEIR FACILITIES. THEN IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE WORK AND PAY THE UTILITY FOR THEIR EXPENSES IF REQUIRED.
29. ALL PRESSURE TESTS SHALL BE IN ACCORDANCE WITH AWWA STANDARDS.
30. AIR RELEASE VALVE VALVE COVER SHALL BE CONSTRUCTED PER DETAIL "STANDARD ALUMINUM COVER" AS SHOWN IN SMRU CONSTRUCTION STANDARDS & DETAILS. MINIMUM COVER SIZE TO MATCH VALVE INSIDE WALL DIMENSIONS.
31. ALL WATER SERVICES GREATER THAN 1" SHALL BE MECHANICALLY PUSHED UNDER THE EXISTING PAVEMENT. SERVICES 1" OR LESS MAY BE INSTALLED WITHOUT CASING.
32. VALVE STEEL RISER SHALL BE REQUIRED WHERE OPERATING NUT DEPTH EXCEEDS 4 FEET. THE RISER SHALL BE BOLTED TO THE VALVE NUT. METHOD AND MATERIALS SHALL BE APPROVED BY SMRU.
33. THE CONTRACTOR SHALL CLEAN MAINS USING APPROVED POLYURETHANE PIG(S) OR FULL BUSHING. TEMPORARY CLEANING STATIONS SHALL BE CONSTRUCTED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A CLEANING PLAN SHOWING METHOD OF FILLING AND CLEANING MAINS PRIOR TO START OF CONSTRUCTION. THE CLEANING PLAN SHALL BE APPROVED BY SMRU PRIOR TO CONSTRUCTION.
34. A FLORIDA DEPARTMENT OF TRANSPORTATION PERMIT IS REQUIRED FOR ALL WORK WITHIN THE STATE DEPARTMENT OF HIGHWAY. A COPY OF THIS PERMIT MUST BE MAINTAINED ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
35. THE CONTRACTOR SHALL INSTALL TESTING POTS FOR PRESSURE TESTING MAINS. THE CONTRACTOR SHALL INSTALL AND REMOVE AND PLUG CORP. STOPS PER SMRU REGULATIONS, POLICIES AND PROCEDURES "SAMPLE POINT DETAIL". THE LOCATION OF TEST POINTS SHALL BE APPROVED BY SMRU.
36. WATER MAIN DISINFECTION SHALL BE IN ACCORDANCE WITH CURRENT AWWA, BULLETIN C-651.
37. WATER MAINS AND APPURTENANCES SHALL BE IN ACCORDANCE WITH CURRENT AWWA AND NSF STANDARDS.

38. MINIMUM COVER TO FINISHED GRADE OVER WATER MAINS SHALL BE 30 INCHES (36 INCHES PREFERRED) UP TO 8" DIAMETER; 10" OR LARGER SHALL HAVE 36" COVER OR GREATER TO PROVIDE A MINIMUM 18" COVER OVER OPERATING NUT OF GATE VALVES.

39. ALL MAINS SHALL BE TESTED FOR LEAKAGE. WATER SHALL BE SUPPLIED TO THE MAIN AND PUMPED TO THE REQUIRED 150 PSI. PRESSURE. NEWLY INSTALLED WATER LINES SHALL FIRST BE CLEANED USING EITHER A PIC (ONE SIZE BIGGER THAN THE DIAMETER OF THE WATER LINE) OR TUBULOIR. FIRST DURING THE CLEANING PROCEDURE, THE NEWLY INSTALLED LINE MUST REMAIN OPEN TO ATMOSPHERE TO PREVENT A PRESSURE BUILD UP IN THE NEWLY INSTALLED LINE. FOLLOWING COMPLETION OF THE CLEANING PROCEDURE, THE NEWLY INSTALLED LINE WILL BE CHLORINATED WHICH TIME THE NEWLY INSTALLED LINE MUST REMAIN AT ATMOSPHERIC PRESSURE TO PREVENT BUILDUP OF PRESSURE IN THE NEWLY INSTALLED LINE. FOLLOWING CHLORINATING, THE NEWLY INSTALLED LINE WILL BE FLUSHED OF HIGH CHLORINE BY CLEAN WATER. FOLLOWING FLUSHING, THE NEWLY INSTALLED LINE WILL BE BACTERIOLOGICALLY TESTED AND DURING THIS TESTING THE NEWLY INSTALLED LINE MUST REMAIN OPEN TO ATMOSPHERE TO PREVENT BUILDUP OF PRESSURE IN THE NEWLY INSTALLED LINE. FOLLOWING BACTERIOLOGICALLY COMPLETION OF BACTERIOLOGICALLY TESTING, THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION CLEARANCE AND SMRU APPROVAL, THE NEWLY INSTALLED LINE WILL BE CLOSED AND ALLOW TO REACH SYSTEM PRESSURE.

40. NEWLY CONSTRUCTED FIRE HYDRANTS THROUGHOUT THE PROJECT SHALL HAVE A RED "OUT OF SERVICE" DISK (JOSEPH G. POLLARD CO. OR EQUAL) ATTACHED TO 4" PUMPER NOZZLE CAP OR SHALL BE COVERED WITH BLACK PLASTIC BAG, DISK AND/OR PLASTIC BAG TO BE REMOVED AFTER WATER SYSTEM HAS BEEN APPROVED FOR SERVICE BY SMRU.

SMRU SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY TESTING PROCEDURES. AFTER FLUSHING AND DISINFECTION IS COMPLETED, LINE PRESSURE SHALL BE APPLIED TO THE WATER SYSTEM TO DETERMINE IF ANY MAJOR DEFECTS ARE PRESENT. THE COMPLETE WATER SYSTEM SHALL THEN BE TESTED AT A PRESSURE OF 150 PSI FOR A PERIOD OF NOT LESS THAN TWO HOURS. AFTER DISINFECTION IS COMPLETED, THE PERIOD TO FOUR HOURS. MAXIMUM LENGTH OF LINE TO BE TESTED AT ONE TIME SHALL NOT EXCEED 2000 LINEAR FEET. AN OIL FILLED PRESSURE GAUGE UP TO 200 PSI AT 2 POUND INCREMENTS SHALL BE USED FOR ALL PRESSURE TESTS. NO VISIBLE MOVEMENT OF THE SYSTEM SHALL OCCUR AND LEAKAGE SHALL NOT EXCEED:

$L = \frac{SD \sqrt{P}}{14,000}$

WHERE:

- L= ALLOWABLE LEAKAGE IN GALLONS
- S= LENGTH OF PIPE TO BE TESTED IN FEET
- P= AVERAGE TEST PRESSURE IN PSI
- D= DIAMETER OF PIPE IN INCHES

NOTE: SOUTH MARTIN REGIONAL UTILITY'S MINIMUM DESIGN AND CONSTRUCTION STANDARDS (LATEST EDITION) ARE TO BE ADHERED AND WILL BE ENFORCED TO AT LEAST THESE MINIMUM STANDARDS.

48 HOURS BEFORE DIGGING
CALL TOLL-FREE
1-800-432-4770
SUNSHINE STATE ONE CALL
OF FLORIDA, INC
UNDERGROUND UTILITIES NOTIFICATION CENTER

DSGN.		 SOUTH MARTIN REGIONAL UTILITY (SMRU)
DRW.	MW	
CK.	MES	

CONSTRUCTION STANDARDS AND DETAILS

[illegible]

DSGN	 SOUTH MARTIN REGIONAL UTILITY (SMRU)
DRW. MW	
CK. MES	

CONSTRUCTION STANDARDS AND DETAILS

The drawing consists of two views: a Plan view at the top and an Elevation view at the bottom.

Plan View: A square with dimensions 24" by 24". It shows a central circular opening with a diameter of 8 1/2". There are four smaller circles, each with a diameter of 1 1/2", located at the corners of the square, 1 1/2" from the center of the main circle. The distance from the center of the main circle to the center of each corner circle is 8".

Elevation View: A cross-section showing the vertical assembly. From top to bottom, the components are:

- COVER C.I. OR BRONZE MARKED "WATER" - "SEWER" OR "TRUS"**: The top cover of the box.
- AND SHALL HAVE BOLT DOWN COVER IN TRAFFIC AREAS**: A note indicating the cover should be bolted down.
- POUR CONCRETE TO GRADE**: The concrete base of the box.
- 2" BRASS CLEANOUT TOP AND PVC THREADED BOX**: The vertical pipe section.
- CONTINUOUS 10 GAGE STRANDED COPPER WIRE TERMINATING IN CURB STOP BOX IN PAD**: A wire running vertically through the assembly.
- HALF HITCH (TYP.)**: A detail showing a wire being looped around a post.
- APPROVED MECHANICAL CINT VALVE**: The valve mechanism at the bottom of the box.
- STEM RISER REQUIRED PTHS EXCEEDING 4'**: A note indicating a stem riser is needed for depths greater than 4 feet.
- SQUARE NUT**: A nut on the stem riser.
- JUSTABLE VALVE BOX SCREW TYPE**: The bottom of the valve box.
- TOP OF PAVEMENT**: The ground surface level.

DSGN	 SOUTH MARTIN REGIONAL UTILITY (SMRU)
DRW: MW	
CK: MES	

CONSTRUCTION STANDARDS AND DETAILS

D9GN	 SOUTH MARTIN REGIONAL UTILITY (SMRU)
DRW. MW	
CL. MES	

CONSTRUCTION STANDARDS AND DETAILS

DSGN.		 SOUTH MARTIN REGIONAL UTILITY (SMRU)
CRW.	MW	
CK.	MES	

CONSTRUCTION STANDARDS AND DETAILS

DSGN.	 SOUTH MARTIN REGIONAL UTILITY (SMRU)
DRW. MW	
CK. MES	

CONSTRUCTION STANDARDS AND DETAILS

DSGN.	 SOUTH MARTIN REGIONAL UTILITY (SMRU)
DRW. MW	
CK. MES	

CONSTRUCTION STANDARDS AND DETAILS

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ADAM SWANEY, P.E.

**PETTTWAY WATERMAIN EXPANSION
HOBE SOUND, FLORIDA
MARTIN COUNTY
DETAILS**

1200 N. CONGRESS AVE., SUITE 101
WEST PALM BEACH, FLORIDA 33409
PH (561)655-1151 • FAX (561)832-9390 •
WWW.ENGINEITYGROUP.COM CERTIFICATE OF AUTHORIZATION #7095

DATE	JUNE 2025
DRAWN	KG
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PROJECT MANAGER	ACS
CHECKED	ACS

C-11

13

JOB NO.

17120 23

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