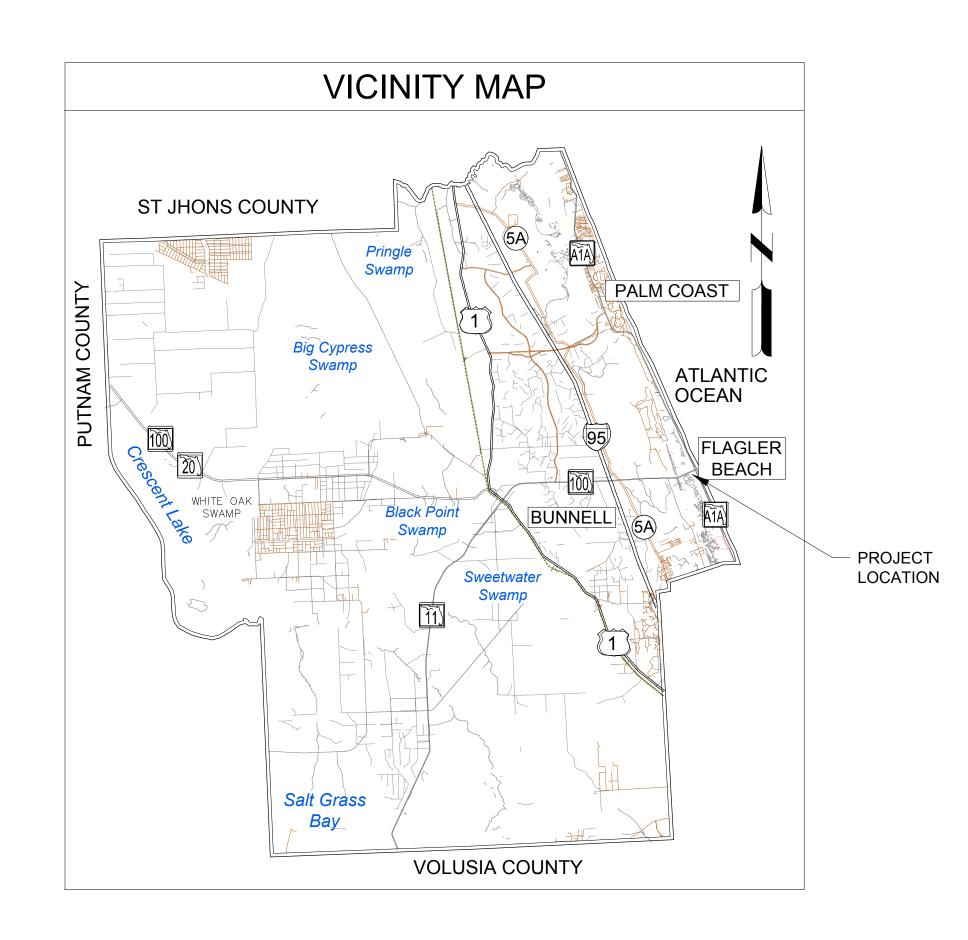
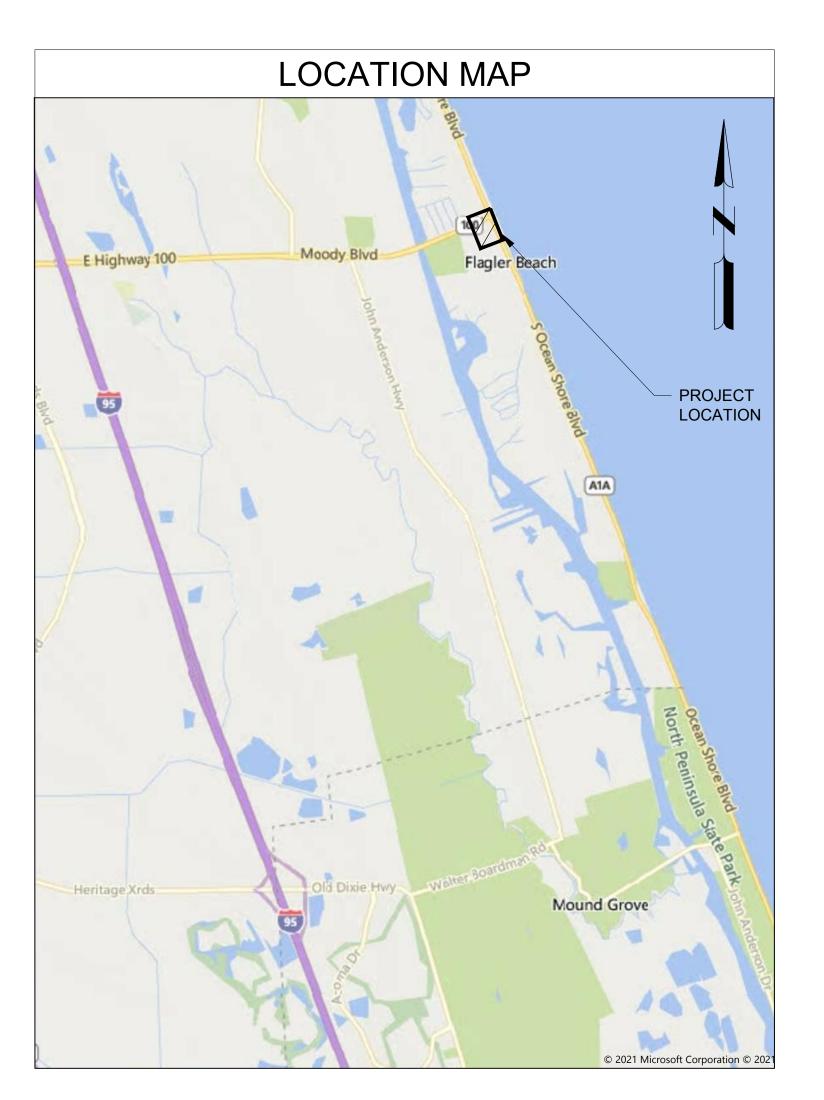


FLAGLER COUNTY



CITY OF FLAGLER BEACH S. CENTRAL WATER MAIN REPLACEMENT **BID SET** BID NO. 24-1021



OCTOBER 2024

Sheet Number G-001 G-002 G-003 G-021 C-001 C-002 C-003 C-101 C-501 C-502 C-503

OWNER:

CITY OF FLAGLER BEACH CONTACT: CHRIS NOVAK 105 S SECOND STREET FLAGLER BEACH, FLORIDA 32136 PHONE: (386) 517-2000 FAX: (386) 517-2008

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- STANDARD DETAILS
- STANDARD DETAILS

PROJECT TEAM:

CIVIL ENGINEER:

MEAD AND HUNT, INC. CONTACT: CASSANDRA CISSELL, P.E. 4401 EASTPORT PARKWAY PORT ORANGE, FLORIDA 32127 PHONE: (386) 761-6810 FAX: (386) 761-3977



Know what's below.



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RID, Ō m FLAGLER

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M&H NO.: DATE: DESIGNED BY: CMC DRAWN BY: MRM CHECKED BY: DAK

1000709-231849.01 August 16, 2024 DO NOT SCALE DRAWINGS

SHEET CONTENTS COVER SHEET

SHEET NO.

G-001

LEGEND & ABBREVIATIONS:

☐ = WATER METER

X = "X" CUT

□ = MAIL BOX

 $-\Delta$ - = VINYL FENCE

•	= IRON ROD	

- = CONCRETE MONUMENT
- \odot = NAIL & DISC
- IRON PIPE
- $|A_{C}| = AIR CONDITIONING$
- \prec = POWER POLE
- 🖬 = SIGN
- (TN) = TANK

· · · · = TREE/HEDGE LINE

- ([∩]) = BUSH
- C = FIRE HYDRANT
- = WATER VALUE
- = CLEANOUT
- STA = STATION
- LT = LEFT
- RT = RIGHT

T = TELEPHONE PEDESTAL	-X-	= CHAINLINK FENCE
	-0-	= WOOD FENCE
LSA = LANDSCAPE AREA	ABS	= ACRYLONITRILE BUTADIENE STYRENE PIPE
	PVC	= POLYVINYL CHLORIDE PIPE
② = DRAINAGE MANHOLE	INV	= INVERT
(Ŝ) = SANITARY MANHOLE	FF	= FINISH FLOOR ELEVATION
▲ = TRAFFIC SIGN	LB	= LICENSED BUSINESS
FLAT GRATE INLET	LS	= LICENSED SURVEYOR
COMBINATION POLE	NAVD	= NORTH AMERICAN VERTICAL DATUM

I UTILITY METER

-OHL- = OVERHEAD UTILITY LINE

- TRAV.PT. = TRAVERSE POINT
- SSMC = SOUTHEASTERN SURVEYING & MAPPING CORPORATION

SIZE SHOWN IS TRUNK DIAMETER IN INCHES MEASURED AT CHEST HEIGHT

= PALM C = CABBAGE

= TREE O = OAK

UTILITY TYPE WATER/WASTEWATER FIBER FIBER ELECTRIC TELEPHONE COMMUNICATION GAS

GENERAL NOTES

1. UTILITIES & STRUCTURES AS SHOWN ON PLANS HAVE BEEN LOCATED FROM AVAILABLE RECORDS, HOWEVER IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE LOCATION OF ALL UTILITIES AND STRUCTURES TO BE ENCOUNTERED IN THE WORK AND TO AVOID CONFLICT WITH EXISTING FACILITIES.

2. THE OWNER AND/OR THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR INACCURACIES OR OMISSIONS IN THE LOCATION, ELEVATION AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER EXISTING FEATURES.

3. THE CONTRACTOR SHALL CONTACT THE ENGINEER'S OFFICE IMMEDIATELY UPON ANY CONFLICTS ARISING DURING CONSTRUCTION OF ANY PROPOSED IMPROVEMENTS SHOWN ON THESE DRAWINGS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO, AND REPLACEMENT OF, EXISTING UTILITIES. REPLACEMENT SHALL BE TO THE COMPLETE SATISFACTION OF THE ENGINEER.

5. THE CONTRACTOR SHALL PRESERVE FROM DAMAGE, ALL PROPERTY ALONG THE LINE OF WORK, OR THAT IS IN THE VICINITY THEREOF, OR IS IN ANY WAY AFFECTED BY THE WORK; THE REMOVAL OF OR DESTRUCTION OF WHICH IS NOT CALLED FOR BY THE PLANS. WHEREVER SUCH PROPERTY IS DAMAGED DUE TO CONSTRUCTION ACTIVITIES OF THE CONTRACTOR, IT SHALL BE IMMEDIATELY RESTORED TO ITS ORIGINAL CONDITION BY THE CONTRACTOR AT NO COST TO THE OWNER.

6. THE CONTRACTOR SHALL PROVIDE FORTY EIGHT (48) HOURS NOTICE TO THE VARIOUS UTILITY OWNERS PRIOR TO CONSTRUCTION.

7. ALL UTILITY OUTAGES SHALL BE COORDINATED WITH AND APPROVED BY THE SUPERINTENDENT OF THE DEPARTMENT AFFECTED, PRIOR TO OUTAGE.

8. THE CONTRACTOR SHALL CONDUCT HIS WORK AS TO INSURE LEAST POSSIBLE IMPACTS TO TRAFFIC AND INCONVENIENCE TO THE GENERAL PUBLIC AND THE RESIDENTS IN THE VICINITY OF THE WORK AND TO INSURE THE PROTECTION OF PERSONS AND PROPERTY. NO ROAD SHALL BE CLOSED TO THE PUBLIC WITHOUT PRIOR APPROVAL OF THE ENGINEER AND THE PROPER GOVERNMENTAL AUTHORITY.

9. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR, REGISTERED IN THE STATE OF FLORIDA, TO REFERENCE AND RESTORE PROPERTY CORNERS AND LAND MARKERS WHICH MAY BE DISTURBED BY CONSTRUCTION AND TO ASSURE ACCURATE HORIZONTAL AND VERTICAL CONTROLS DURING CONSTRUCTION.

10. THE CONTRACTOR SHALL DO ALL THAT IS POSSIBLE TO AVOID TREES, PARTICULARLY TREES 6" DIAMETER OR LARGER. NO TREE SHALL BE REMOVED UNLESS IN DIRECT CONFLICT WITH CONSTRUCTION AND DESIGNATED FOR REMOVAL BY THE ENGINEER.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EFFECTIVE DRAINAGE AND EROSION CONTROL DURING CONSTRUCTION AND RESTORATION. TEMPORARY PROVISIONS SHALL BE MADE TO INSURE THE PROPER FUNCTIONING OF ALL GUTTERS, STORM INLETS AND DRAINAGE DITCHES. EROSION AND SILTATION CONTROL MEASURES ARE TO BE PROVIDED AND INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THESE MEASURES ARE TO BE MAINTAINED OR REPAIRED ON AN IMMEDIATE BASIS AS REQUIRED. REFER TO THE "FLORIDA EROSION AND SEDIMENT CONTROL MANUAL" FOR ADDITIONAL REQUIREMENTS FOR EROSION CONTROL AND SURFACE DRAINAGE.

12. RIGHT-OF-WAY RESTORATION IS TO BE CONDUCTED CONCURRENTLY WITH CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE ENGINEER SHALL HAVE AUTHORITY TO SUSPEND CONSTRUCTION WORK WHEN RESTORATION IS NOT BEING ADEQUATELY PERFORMED. ALL DISTURBED AREAS ARE TO BE RESTORED TO EXISTING OR BETTER CONDITION. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SODDED TO MATCH EXISTING SPECIES AND VARIETY OF GRASS. PIPE INSTALLATION UNIT PRICE SHALL INCLUDE RESTORATION AND SODDING TO EQUAL OR BETTER CONDITION.

13. THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL AND SAFETY DEVICES IN ACCORDANCE WITH THE "U.S. DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," THE LATEST "FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS" AND CITY OF FLAGLER BEACH STANDARDS. CONTRACTOR SHALL PROVIDE CITY, F.D.O.T. AND COUNTY WITH DRAWINGS FOR APPROVAL OF TRAFFIC CONTROL PLANS. DEVICES SHALL BE IN ACCORDANCE WITH SECTION 102 (MAINTENANCE OF TRAFFIC) PER F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).

14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND AT THE CONTRACTOR'S EXPENSE TO PROVIDE THE CONSULTING ENGINEER WITH "AS-BUILT" DRAWINGS OF CONSTRUCTION. DRAWINGS SHALL CONTAIN SPECIFIC LOCATION OF ALL RECLAIMED WATER MAINS, VALVES, SERVICES, AND OTHER WORK PERFORMED BY THE CONTRACTOR. REFER TO THE CONTRACT DOCUMENTS FOR FURTHER INFORMATION ON THE AS-BUILT REQUIREMENTS.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER APPLICATION OF THRUST RESTRAINT SYSTEM PER D.I.P.R.A. TO PREVENT MOVEMENT OF PIPE AND FITTINGS. CONCRETE THRUST BLOCKS SHALL NOT BE ALLOWED.

16. NO FLANGED PIPE SHALL BE INSTALLED UNDERGROUND UNLESS SPECIFICALLY NOTED ON PLAN OR IN SPECIFICATIONS.

17. PIPE BEDDING SHALL BE CLASS I SOIL COMPACTED IN 6" LAYERS TO A HEIGHT OF 18" ABOVE PIPE, 12" LAYERS ARE ACCEPTABLE FROM 18" ABOVE PIPE TO FINISH GRADE, COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY. (AASHTO-T-180) PIPE TO BE LAID ON FIRM FOUNDATION.

- FINISH GRADE AND AT HORIZONTAL SPACING OF THREE HUNDRED (300) FEET.
- AND HEALTH ADMINISTRATION (O.S.H.A.).
- PIPE BEING INSTALLED.
- FIFI D
- 22. WATER LINE TO BE HYDROSTATICALLY TESTED AND FLUSHED.
- THE SCHEDULE OF UNIT PRICES.
- PROPERTY OWNER AND/OR CITY REPRESENTATIVE.

- MAINTAINED.
- PUBLIC.
- ANY TRAFFIC CONTROL DEVICES.
- VEHICLES.
- PERMITS RELATED TO TRAFFIC CONTROL WITHIN CITY AND COUNTY RIGHT-OF -WAYS.
- DIMENSIONING.

UTILITY INFORMATION PROVIDED TO OR COLLECTED BY MEAD & HUNT DURING DESIGN									
UTILITY COMPANY CONTACT		PHONE EMAIL PLAT	PRELIMINARY PLANS PROVIDED INFORMATION QUALITY LEVEL AND DATE REC			E RECEIVED	FINAL PLANS PROVIDED TO		
				TO UTILITY	LEVEL A/4	LEVEL A/4 LEVEL B/3 LE		LEVEL D/1	UTILITY
CITY OF FLAGER BEACH	JENNIFER CREWS	(386)517-2000	JCrews@cityofflaglerbeach.com						
CHARTER	KEN ROBBINS	(386) 414-5076	Kenneth. Robbins@charter.com	8/21/2024				9/5/2024	10/7/2024
UNITI FIBER LLC	ZACH OLIVER	(251) 214-7059	ZACH.OLIVER@UNITI.COM	8/21/2024				9/20/2024	10/7/2024
FPL	JAMIE PURNELL	(386) 586-6403	JAMIE.PURNELL@FPL.COM	8/21/2024					10/7/2024
AT&T	DINO FARRUGGIO		<u>G27896@ATT.COM</u>	8/21/2024				9/5/2024	10/7/2024
MCI	INVESTIGATIONS TEAM	(800) 624-9675	INVESTIGATIONS@VERIZON.COM	8/21/2024					10/7/2024
TECO PEOPLES GAS- DAYTONA	CHEYENNE THOMPSON	(813) 743-7164	CTHOMPSON@TECOENERGY.COM	8/21/2024				8/26/2024	10/7/2024

18. COMPACTION TEST TO BE TAKEN AT POINTS ONE (1) FOOT ABOVE PIPE AND TWO (2) FOOT VERTICAL INTERVALS TO

19. ADEQUATE EXCAVATION, SHEETING, SHORING AND BRACING SHALL BE PROVIDED AND SHALL CONFORM TO CONSTRUCTION REQUIREMENTS AS SET FORTH BY THE FEDERAL DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY

20. PROVISIONS FOR DEWATERING SHALL BE MADE TO KEEP GROUNDWATER ELEVATION A MINIMUM OF 6" BELOW THE

21. LENGTHS OF PIPE SHOWN IN THESE PLANS ARE APPROXIMATE. EXACT LENGTHS ARE TO BE DETERMINED IN THE

23. DOUBLE STRAP/CORPORATION STOP, POLYETHYLENE TUBING AND CURB STOP ARE REQUIRED FOR TESTING.

24. ALL DRIVEWAYS TO BE REPAIRED TO EXISTING OR BETTER CONDITION. ALL ASPHALT DRIVEWAYS SHALL BE SAWCUT AND REPAIRED. OVERLAY ASPHALT DRIVES FROM EDGE OF ROAD OR BACK OF CURB TO RIGHT OF WAY LINE. ALL CONCRETE DRIVES TO BE REPLACED FROM R/W LINE AND/OR NEAREST CONSTRUCTION JOINT TO EDGE OF ROAD OR BACK OF CURB. ALL REPAIRS/OVERLAYS SHALL BE CONCRETE. CONCRETE DRIVES ARE 6" THICK 3000 PSI CONCRETE UNLESS OTHERWISE NOTED. ADDITIONAL HOUSES, DRIVEWAYS AND SIDEWALKS MAY HAVE BEEN CONSTRUCTED SINCE THE SURVEY WAS COMPLETED. NEW CONSTRUCTION IS NOT SHOWN ON THESE PLANS. PAYMENT WILL BE MADE FOR REPAIR OF DRIVEWAYS AND SIDEWALKS ACCORDING TO THE LINE ITEM AMOUNT IN

25. ALL NEW WATER SERVICE LOCATIONS SHALL BE FIELD LOCATED AND THE EXACT LOCATION APPROVED BY THE

26. THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE PLANS, U.S. DEPARTMENT OF TRANSPORTATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE FLORIDA DEPARTMENT OF TRANSPORTATION'S "STANDARD PLANS" (ALL LATEST EDITIONS). CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL.

27. THE CONTRACTOR SHALL SUBMIT A COMPREHENSIVE TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO BEGINNING ANY WORK ON THE SITE. IF WORK WILL ADVANCE IN SECTIONS OR STAGES, THE TRAFFIC CONTROL PLAN SHALL REFLECT THE REQUIRED TRAFFIC CONTROL AND MAINTENANCE ASSOCIATED WITH EACH STAGE.

28. CONTRACTOR SHALL NOTE THAT THERE ARE SIDEWALKS ADJACENT TO THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL PEDESTRIAN TRAFFIC ON THESE SIDEWALKS IS SAFELY

29. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN EFFECTIVE BARRICADES, DANGER SIGNALS, SIGNS AND PEDESTRIAN DETOURS IN ALL AREAS WHERE REQUIRED FOR THE PROTECTION OF THE WORK AND SAFETY OF THE

30. CAUTION SHALL BE TAKEN WHEN PLACING SIGNAGE TO AVOID BLOCKING SIGHT DISTANCES AT INTERSECTIONS OR

31. CONTRACTOR WILL BE RESPONSIBLE FOR ADEQUATELY BARRICADING AND SECURING AREAS WITHIN THE CONSTRUCTION ZONE THAT ARE HAZARDOUS FOR VEHICULAR ARE PEDESTRIAN ACCESS.

32. VEHICULAR AND PEDESTRIAN ACCESS SHALL BE MAINTAINED FOR ALL RESIDENTS AND EMERGENCY RESPONSE

33. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE SUBMITTALS AND OBTAIN ALL NECESSARY

34. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE A REVIEW OF THE SITE TO DETERMINE EXISTING CONDITIONS AND ANYTHING NOT SHOWN ON THESE DRAWINGS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL NOT CONSTITUTE AN EXTRA UNLESS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND OTHER FEATURES AFFECTING THE WORK PRIOR TO CONSTRUCTION.

35. STATIONING DISCLAIMER: THE BASELINE STATIONING SHOWN ON THE PROJECT PLANS IS FOR REFERENCE AND INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE USED FOR PROJECT SITE SURVEY LAYOUT OR





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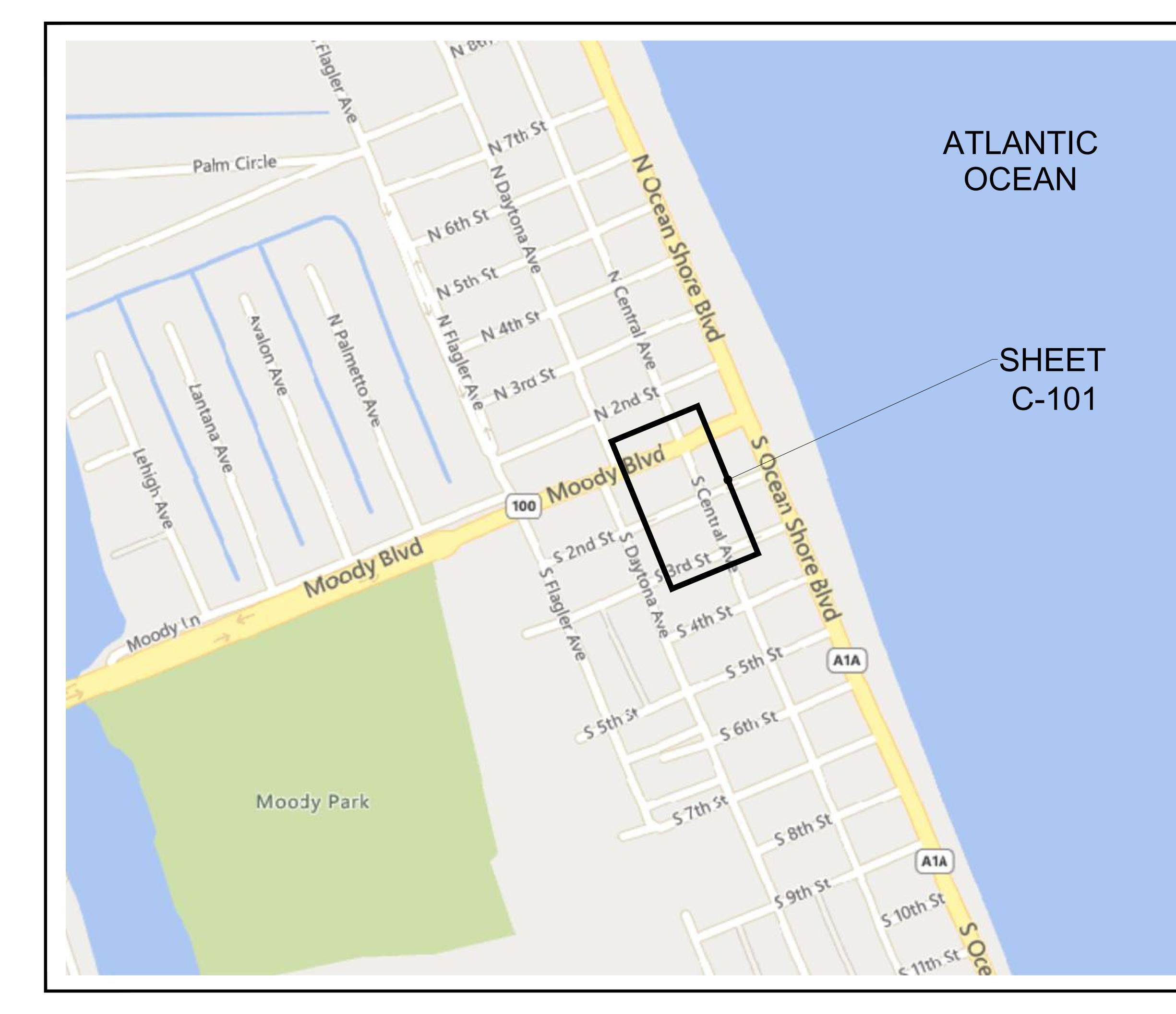
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SHEET CONTENTS GENERAL NOTES, SYMBOLS & **ABBREVIATIONS**

G-002





BEACH	R MAIN	
FLAGLER	- WATE	ENT
ЦО	ENTRAL	REPLACEMENT
CITY	S. CEI	REPI

FLORIDA BEACH, FLAGLER

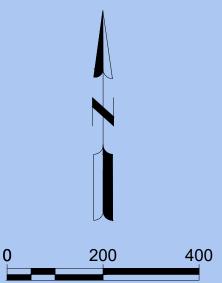
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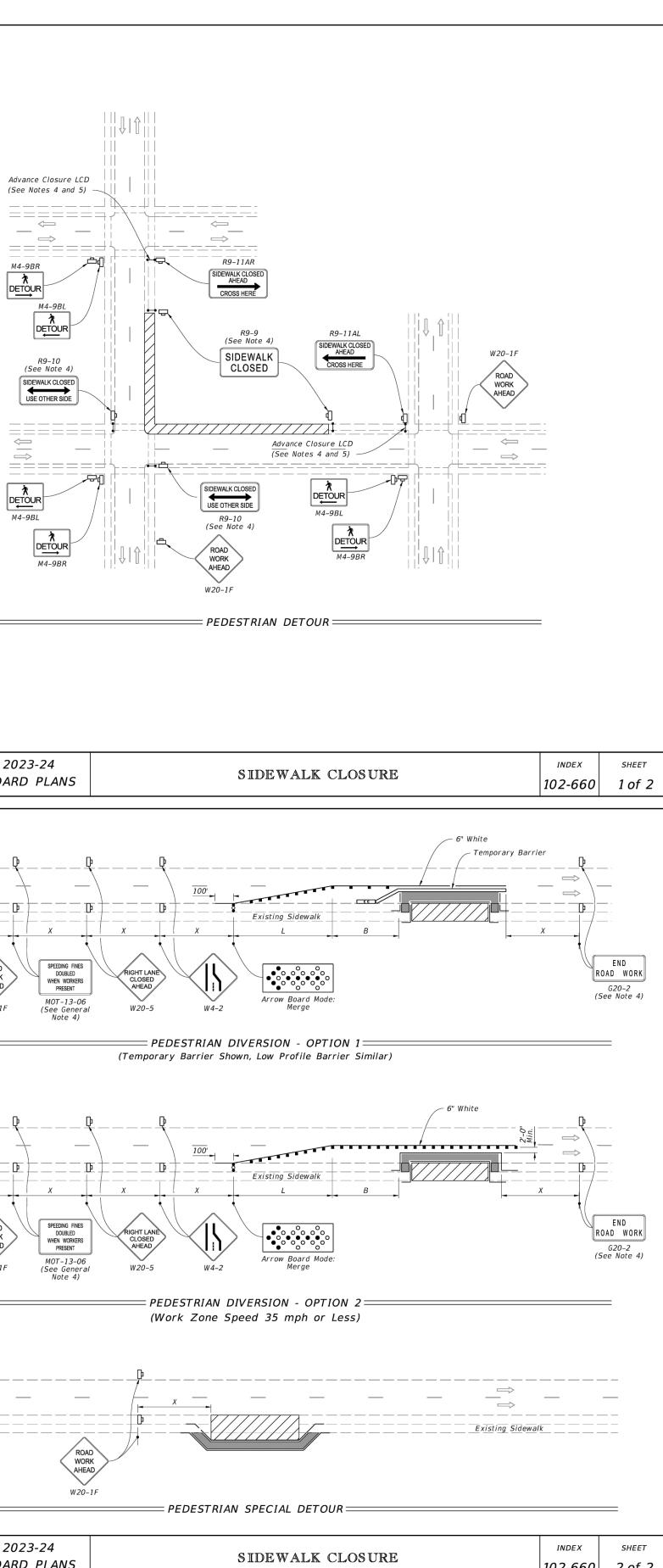
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G-021

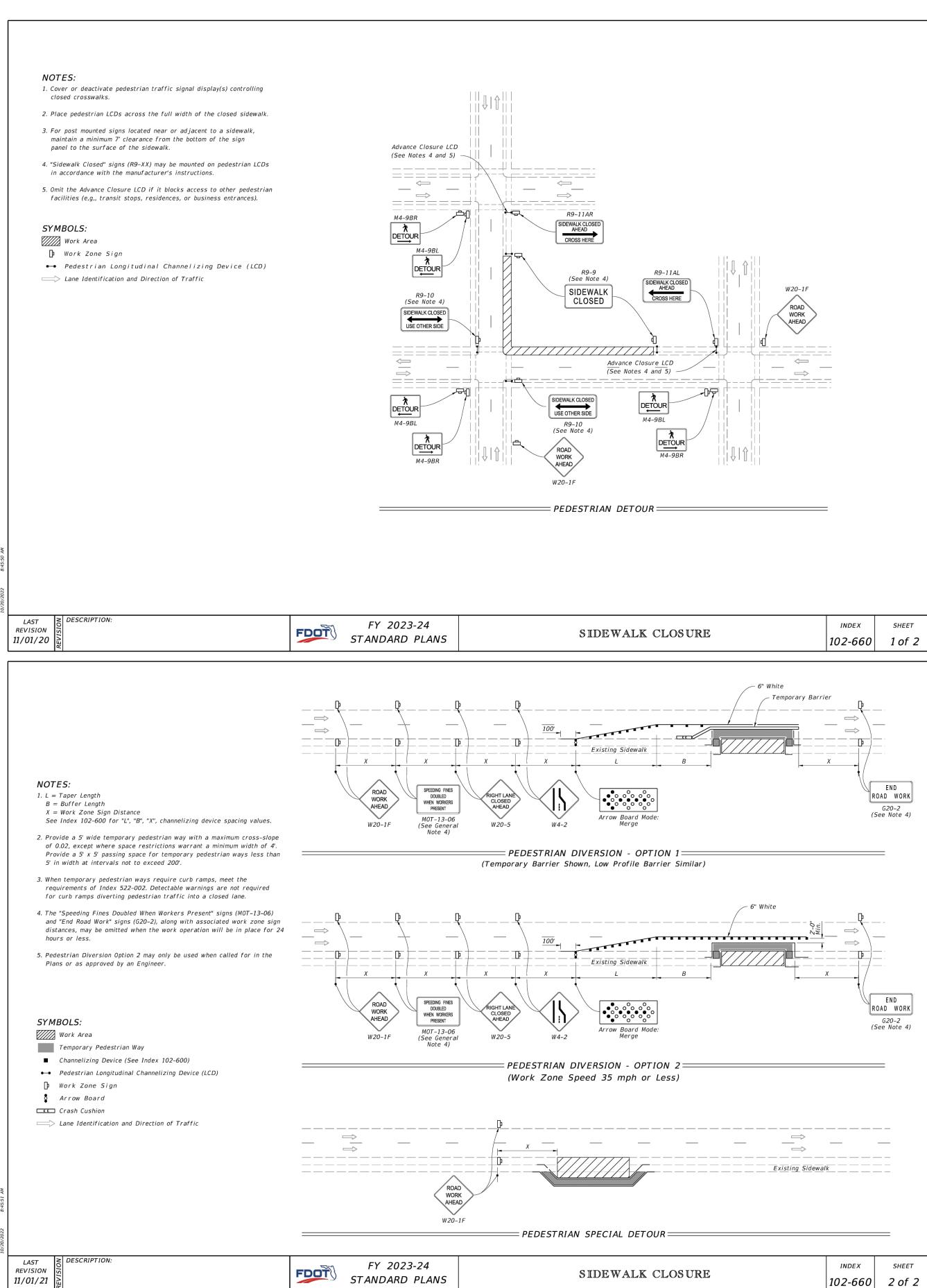
SHEET CONTENTS KEY MAP



- maintain a minimum 7' clearance from the bottom of the sign
- facilities (e,q,, transit stops, residences, or business entrances).







GENERAL M.O.T. NOTES

- 1. ALL SIGNS AND BARRICADES SHALL BE FABRICATED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 2. CAUTION SHALL BE EXERCISED IN SIGN PLACEMENT TO AVOID BLOCKING SIGHT DISTANCE AT INTERSECTIONS OR ANY EXISTING TRAFFIC CONTROL SIGNS OR DEVICES.
- 3. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE NOTED. FLASHING BEACONS TO BE INSTALLED AS SHOWN.
- 4. DURING LANE CLOSURE, FLAGGERS SHALL USE STOP/SLOW PADDLES. THE USE OF FLAGS IS NOT PERMITTED.
- 5. NO CHANGES SHALL BE MADE TO THIS TRAFFIC CONTROL PLAN WITHOUT THE PRIOR CONSENT OF THE FLAGLER COUNTY TRAFFIC ENGINEERING DEPARTMENT AND THE FDOT (AS APPLICABLE).
- 6. CONTRACTOR WILL BE RESPONSIBLE FOR ADEQUATELY BARRICADING ALL AREAS DEEMED HAZARDOUS FOR VEHICULAR ACCESS INSIDE CONSTRUCTION ZONE.
- 7. LOCAL RESIDENTS AND EMERGENCY RESPONSE VEHICLES WILL BE PERMITTED ACCESS AT ALL TIMES.

FDOT RIGHT-OF-WAY CONSTRUCTION NOTES

- 1. ALL CONSTRUCTION WITHIN FDOT RIGHT-OF-WAY SHALL CONFORM TO THE LATEST EDITIONS OF THE FDOT STANDARD PLANS INDICES. THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE FDOT UTILITY ACCOMMODATIONS MANUAL.
- 2. IF REQUIRED FOR CONSTRUCTION OR REPAIR, SAW CUT SIDEWALK(S) AT EXISTING JOINTS REMOVE AND REPLACE FULL SECTIONS.
- 3. ALL SIDEWALK REPLACEMENT WITHIN FDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF FDOT INDEX 310.
- 4. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND FDOT A MINIMUM OF TWO (2) BUSINESS DAYS IN ADVANCE OF WORKING WITHIN THE FDOT **RIGHT-OF-WAY.**

IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR DEPLOYING THE MAINTENANCE OF TRAFFIC PLAN HEREIN WILL AT ALL TIMES, ASSUME ANY AND ALL RISK OF AND INDEMNIFY, DEFEND, AND HOLD HARMLESS THE ENGINEER AND THE OWNER FROM AND AGAINST ANY AND ALL LOSSES, DAMAGES, COSTS, AND EXPENSES ARISING IN ANY MANNER WHATSOEVER ON ACCOUNT OF IN ANY WAY RESULTING FROM THE ACTS OR OMISSIONS OF THE CONTRACTOR OR ITS OFFICERS, EMPLOYEES OR AGENTS IN IMPLEMENTING AND MAINTAINING THE MAINTENANCE OF TRAFFIC PLAN. THE CONTRACTOR AGREES TO ITS ASSUMPTIONS OF RISKS AND OBLIGATIONS TO INDEMNIFY THE ENGINEER AND THE OWNER RELATED TO CONTRACTORS ACTIVITIES.

POSTED SPEED LIMITS:

SR A1A 25 MPH

CITY WIDE 20 MPH



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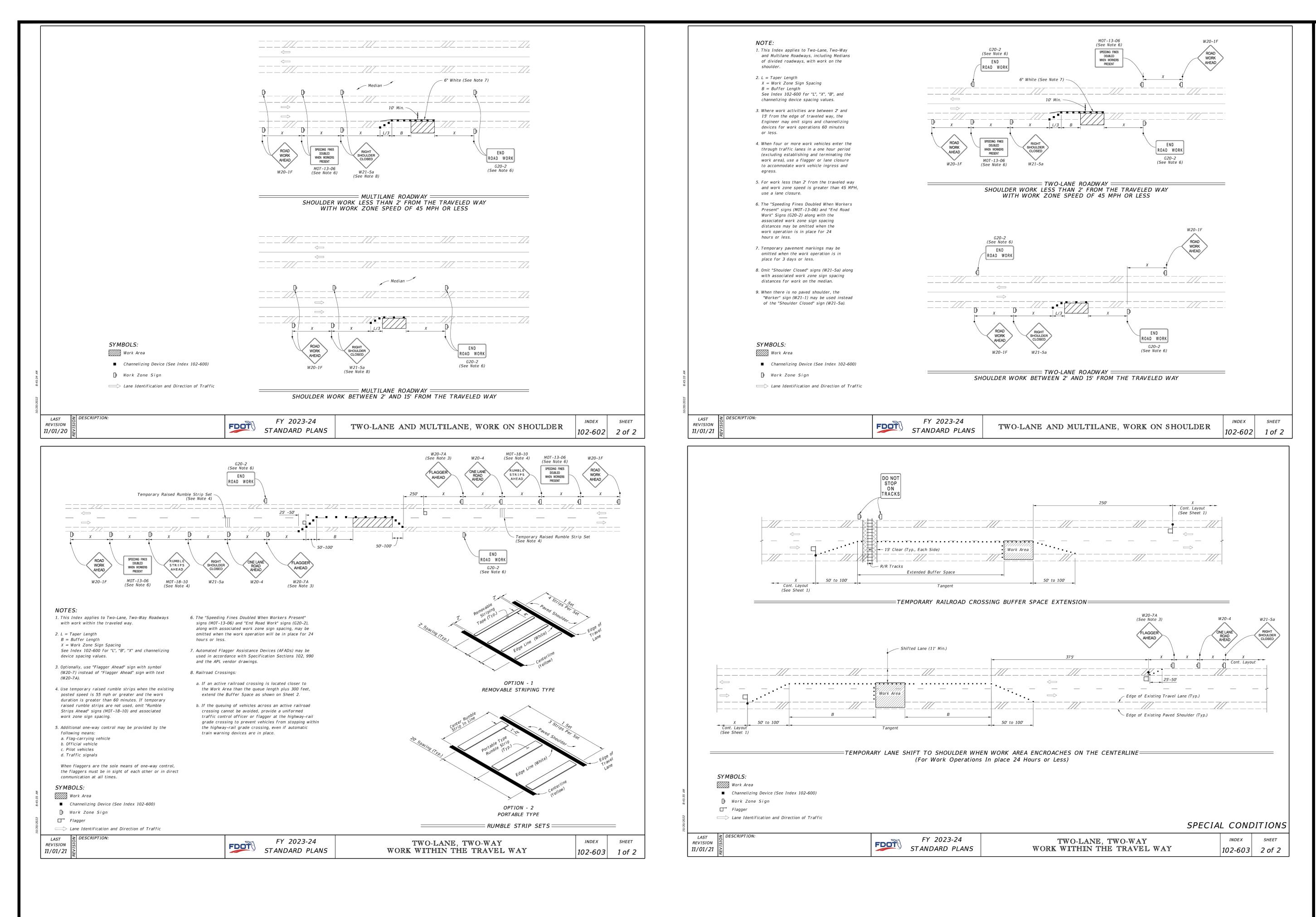
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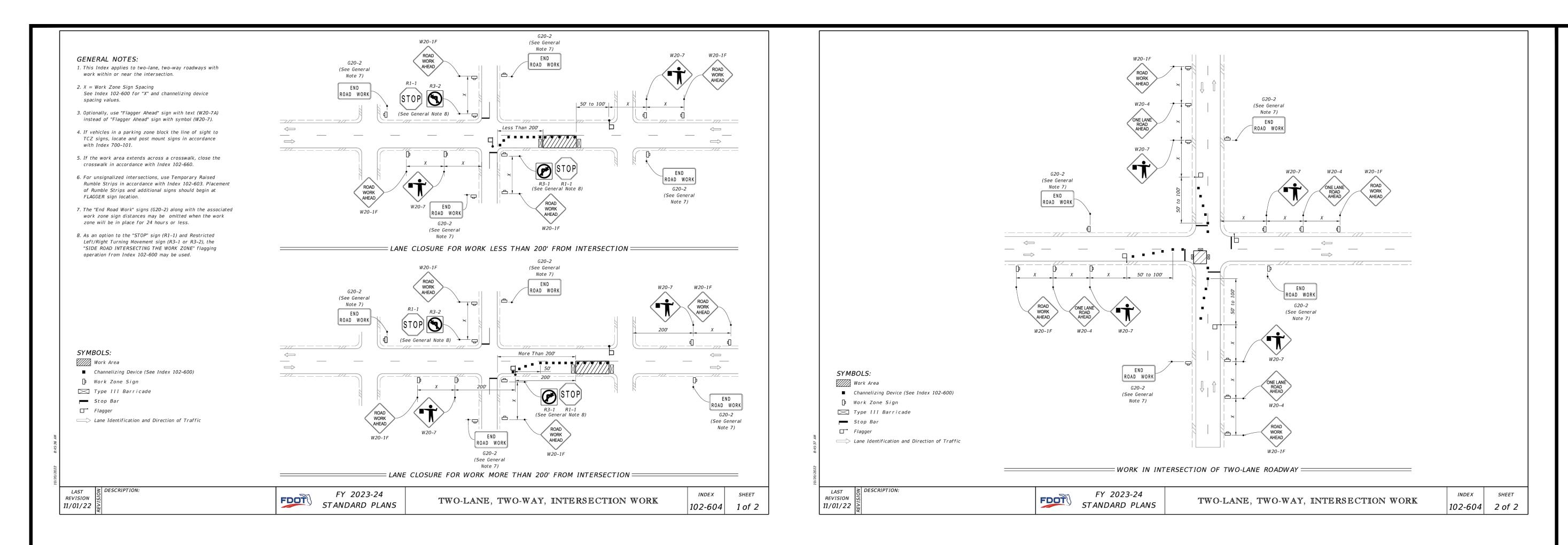
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SHEET CONTENTS TRAFFIC DETAILS

C-001

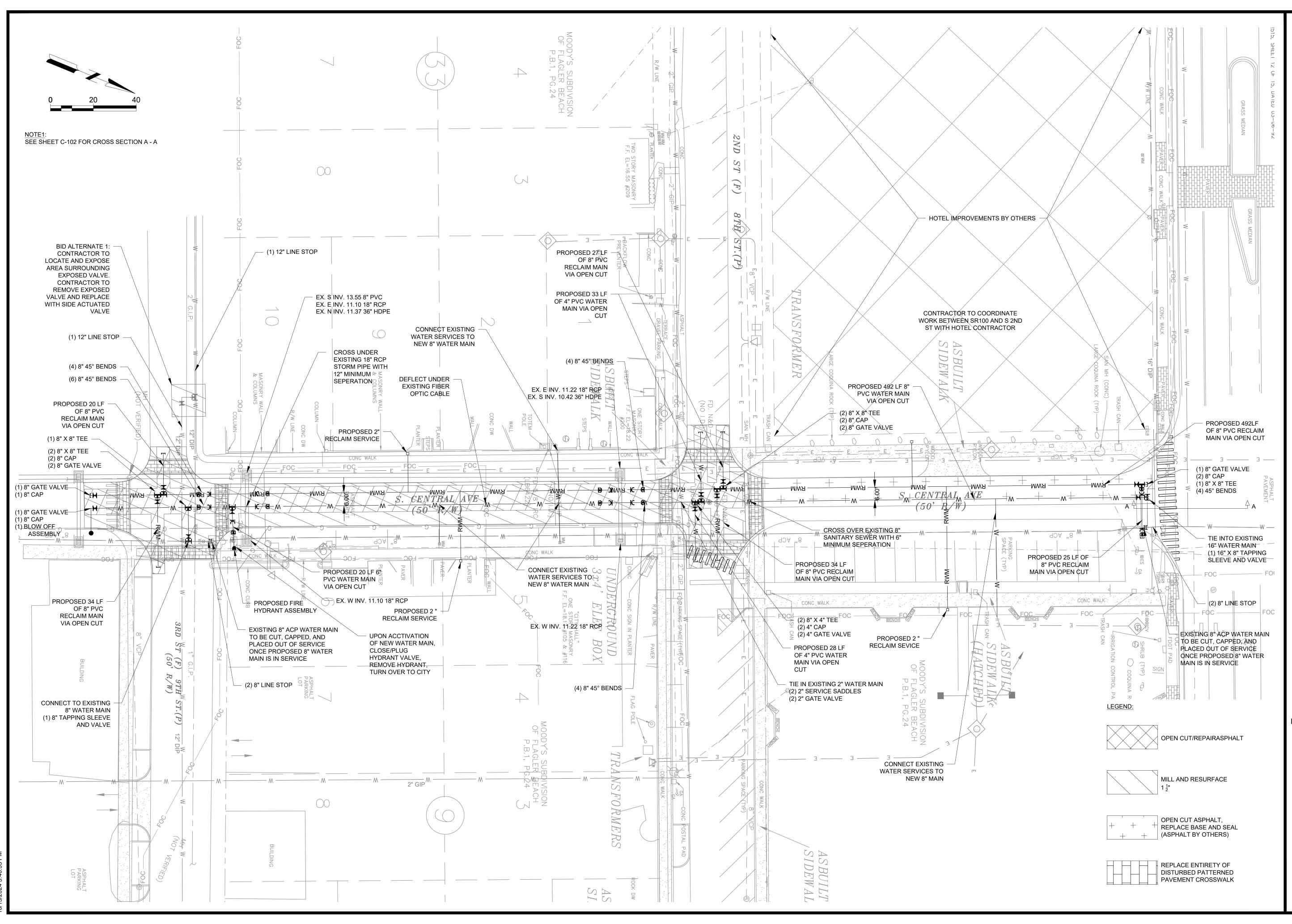


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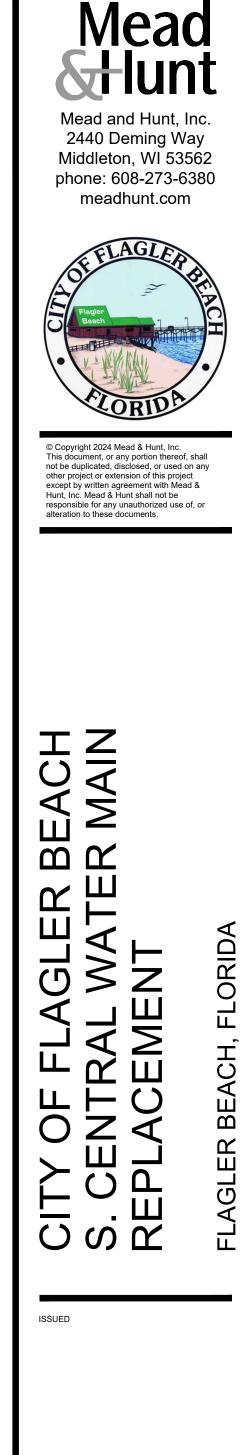




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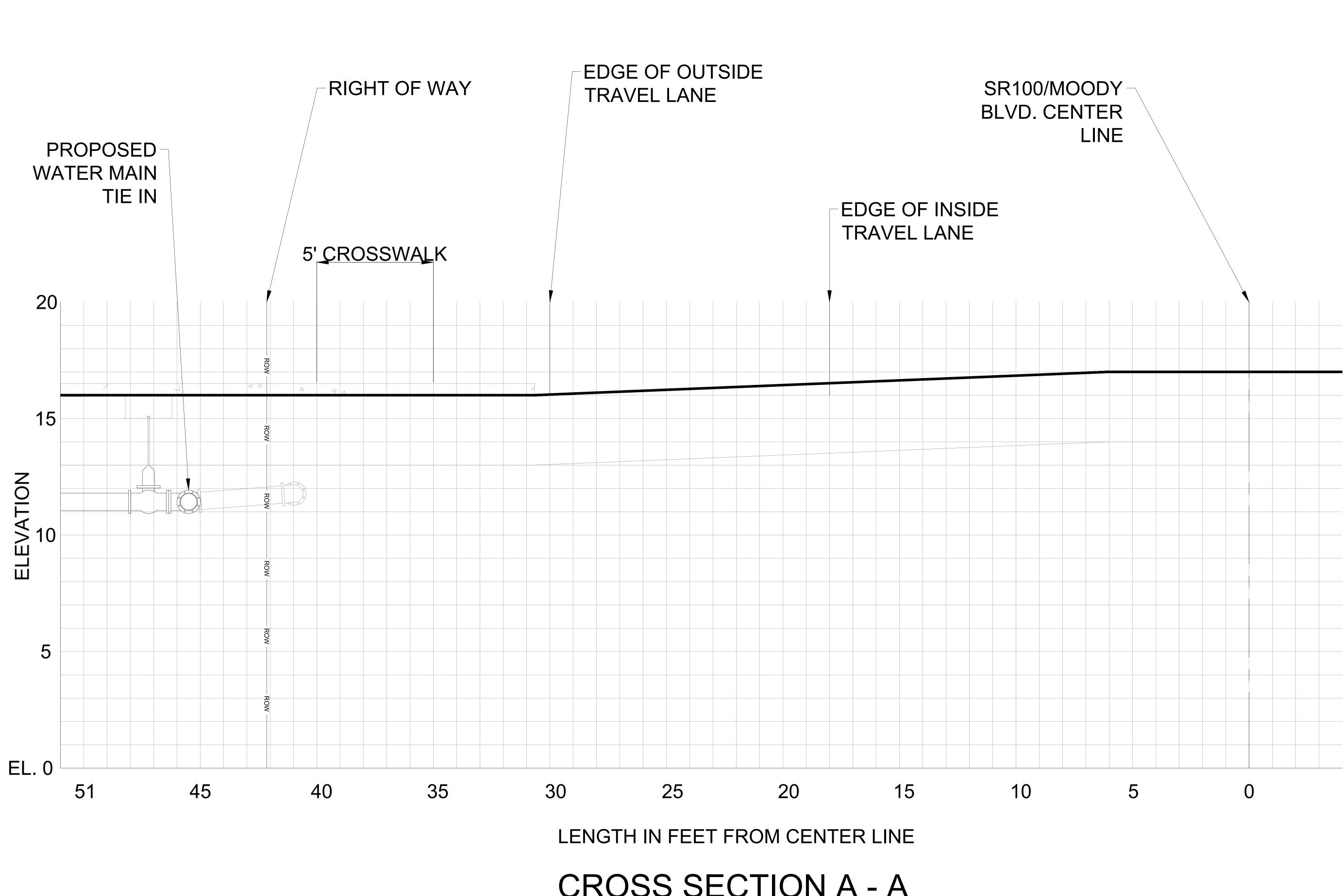


000709/231849.01/TECH\CAD\DRAWINGS\231849.01 SITE PLAN.DW(



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CROSS SECTION A - A 1" = 2'

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BEACH, FLORIDA FLAGLER

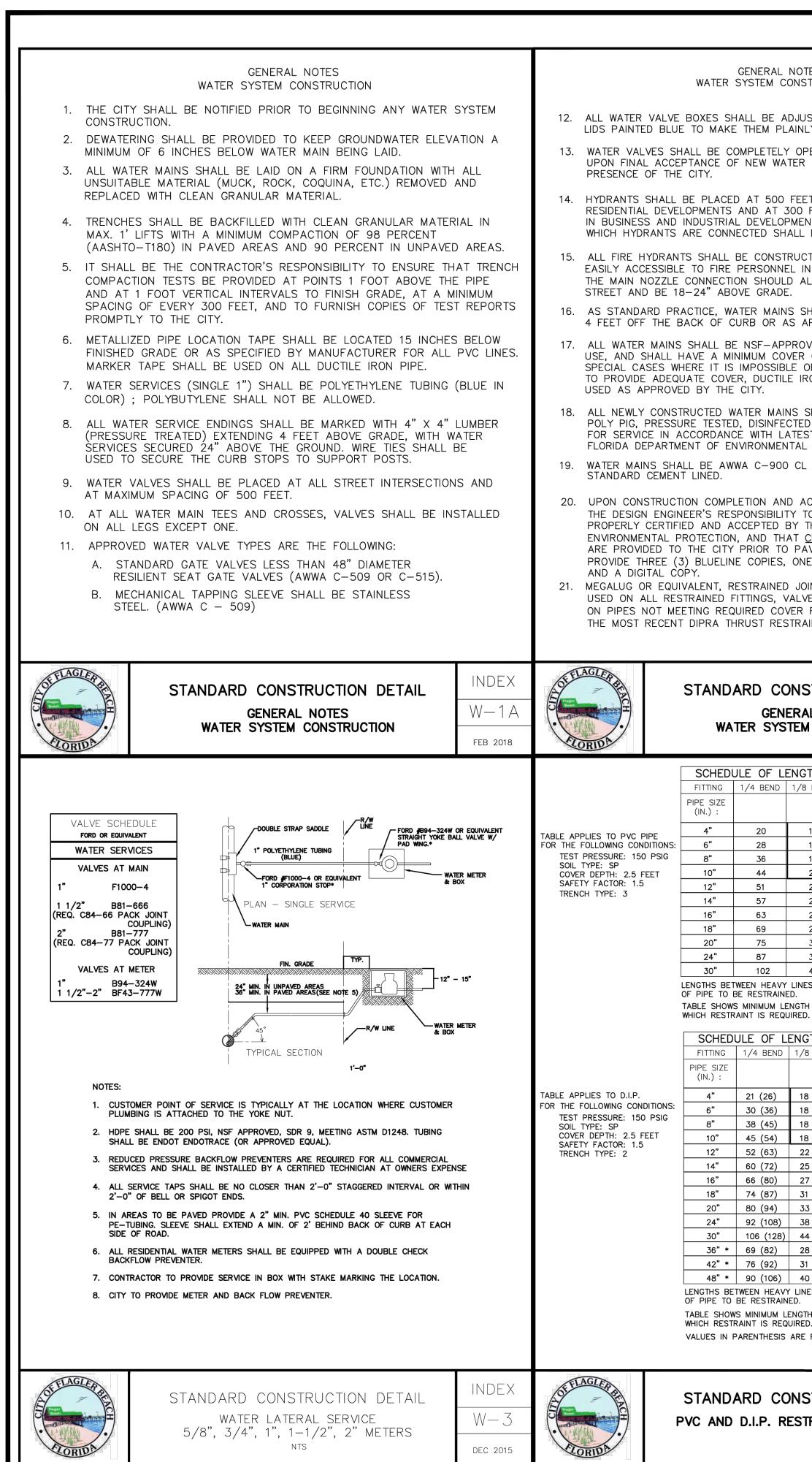
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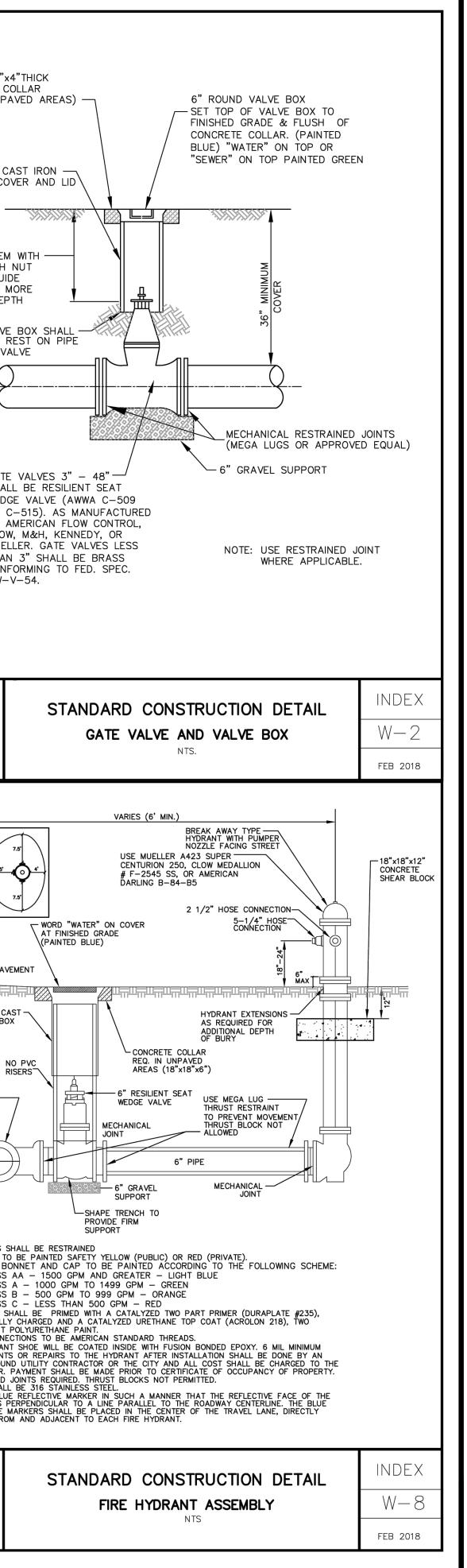
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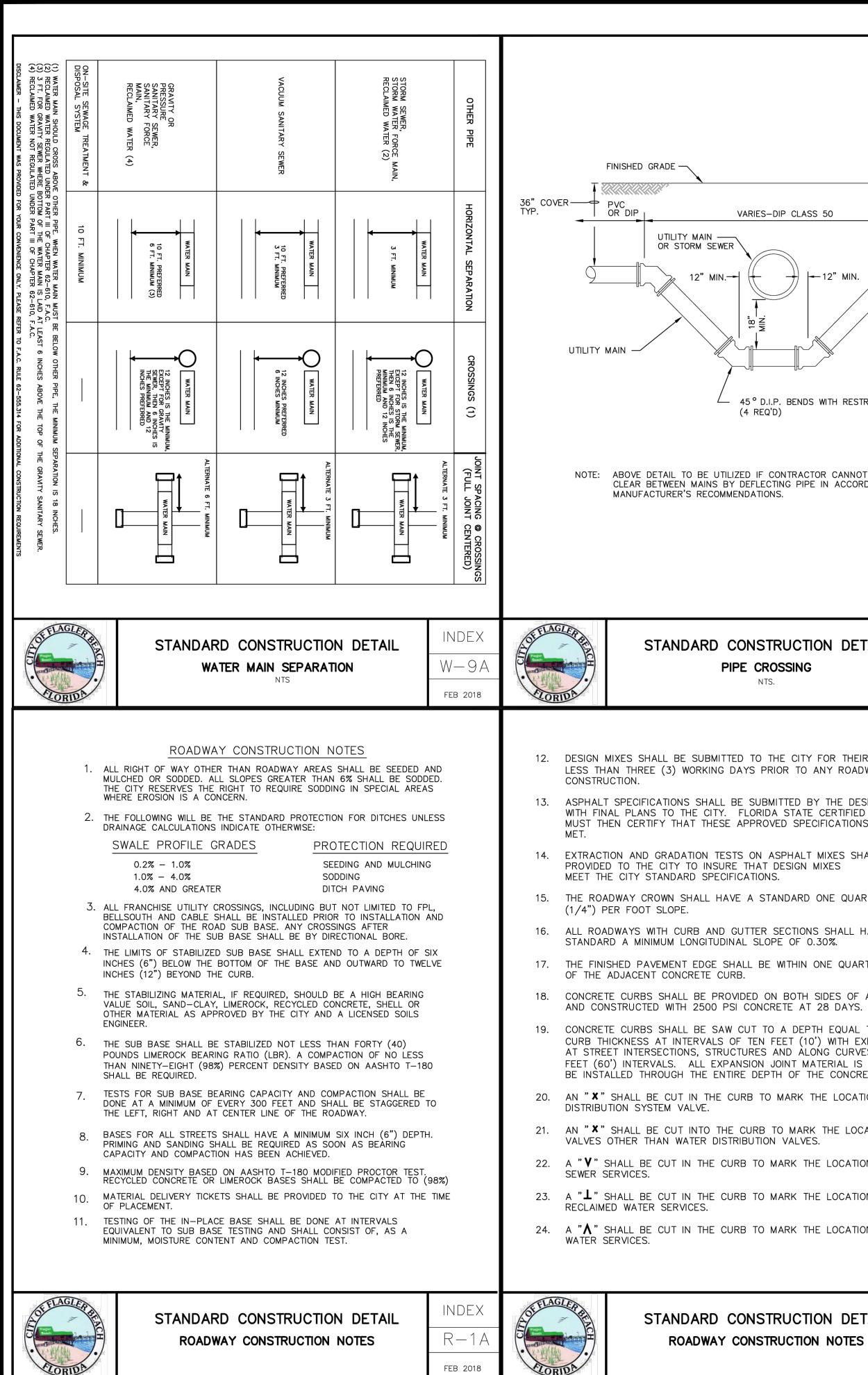


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	NOTES		
	DINSTRUCTION	22. WATER SYSTEMS SHALL BE PRESSURE TESTED AT 150 PSI STATIC PRESSURE FOR A PERIOD OF 2 HOURS PER AWWA STANDARDS. TESTS	CONC. CO
List Production Stratements Applied Stratements Production	OPENED BY THE CONTRACTOR	23. All water services shall be marked with a " $lacksymbol{\Lambda}$ " saw cut into the	(IN UNPA)
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NSTRUCTION DETAIL RAL NOTES EN CONSTRUCTION INDEX W——E STANDARD CONSTRUCTION DETAIL GENERAL NOTES water system construction INDEX W——C W——C NOTHS OF RESTRAINED PVC PIPE (TT) // FERIO // CE BING 1/22 BIOL FROM FROM THE OF RAL BIOL 22 BIOL 1/2 BIOL FROM THE OF RAL BIOL 22 BIOL 1/2 BIOL 1/2 BIOL FROM THE OF RAL BIOL 22 BIOL 1/2	L IN CASE OF FIRE. ALWAYS FACE THE S SHALL BE INSTALLED S APPROVED BY THE CITY. ROVED FOR POTABLE WATER YER OF 36 INCHES. IN E OR INAPPROPRIATE TIRON CLASS 350 MAY BE S SHALL BE FLUSHED, CLEANED WITH A S SHALL PROTECTION REQUIREMENTS S ALL PROTECTION REQUIREMENTS SHALL FOLLOW	APPROVED EQUAL MAY BE USED AS APPROPRIATE FOR RESTRAINING IN-LINE PRESSURE PIPE EACH SIDE OF PIPE JOINT. AS REQUIRED BY RESTRAINT TABLE. 26. TRACING WIRE SHALL BE INSTALLED IN ACCORDANCE WITH UTILITY PIPE LOCATION MATERIALS DETAIL. 27. NO GALVANIZED PIPE, FITTINGS, ETC. ARE ACCEPTED. 28. UNLESS APPROVED BY THE CITY, ALL WATER METERS SHALL BE INSTALLED AT THE RIGHT OF WAY LINE ONLY REGARDLESS OF SIZE. 29. SUBMIT ASSEMBLY CERTIFICATION FOR ALL BACKFLOW PREVENTERS TO THE CITY BEFORE FINAL INSPECTION. 30. PIPING FOR RAW WATER SHALL BE OLIVE GREEN FOR ABOVE GROUND LIOCATOR TAPE PLACED DIRECTLY ON TOP OF THE PIPE AND AT 12" TO 18" ABOVE THE PIPE. THE TAPE SHALL CONTINUOUSLY READ "CAUTION – RAW WATER MAIN BURIED PVC PIPING SHALL BE BLUE WITH WHITE COLOR BACKGROUND LOCATOR TAPE PLACED DIRECTLY ON TOP OF THE PIPE AND AT 12" TO 18" ABOVE THE PIPE. THE TAPE SHALL CONTINUOUSLY READ "CAUTION – RAW WATER MAIN BURIED BELOW" OR WHITE WITH LOCATOR TAPE PLACED 12" TO 18" ABOVE THE TOP OF THE PIPE. 31. SEE CHART BELOW FOR WATER MAIN SIZE AND MATERIALS. Image: Additional Content of the pipe cass 280 Image: Additional Content of the pipe case 190 Image: Additional Content of the pipe case 190 Image: Additional Content of the pipe case 190 Image: Additing the pime case 280 Image: Add	2" SQ. WRENCH N AND UPPER GUIDE REQUIRED FOR MO THAN 3 FT. DEPT VALVE NOT RE OR VAL PRESSURE MAIN GATE SHALL WEDGE OR C- BY AN CLOW, MUELL THAN
C/4 COND T/4 COND </td <td>RAL NOTES W-1B</td> <td>STANDARD CONSTRUCTION DETAIL GENERAL NOTES WATER SYSTEM CONSTRUCTION INDEX W-1C</td> <td>OF FLAGLER BE</td>	RAL NOTES W-1B	STANDARD CONSTRUCTION DETAIL GENERAL NOTES WATER SYSTEM CONSTRUCTION INDEX W-1C	OF FLAGLER BE
INDEX INDEX	1/8 BEND 1/16 BEND 1/32 BEND TEE <or< td=""> DEAD END 18 18 18 18 18 63 18 18 18 18 63 18 18 18 18 98 21 18 18 116 24 18 18 116 24 18 18 148 29 18 18 163 31 18 18 208 42 20 18 248 LINES INDICATE ONE FULL LENGTH (18' MIN.) D. 0. NGTH OF PIPE EACH WAY FROM FITTING FOR RED. 1/16 BEND 1/32 BEND TEE OR DEAD END 18 18 18 18 18 52 78 18 18 18 18 132 26 18 18 18 18 18 122 18 18 18 18 18 122 22 18 18 1</or<>	CONBRACO (APOLLO) MODEL 40-100-A2T Image: Constraint of the second state of the s	NOTES: 1. ALL JOINTS SH ADJUSTABLE CAS IRON VALVE BOX AND LID MECHANICAL JOINT ANCHORING TEE (MUELLER) AND VALVE OR APPROVED EQUAL NO RIS NOTES: 1. ALL JOINTS SH 2. HYDRANTS TO 3. HYDRANTS TO 3. HYDRANTS TO 3. HYDRANTS SH CLASS A CLASS SH CLASS S
	INSTRUCTION DETAIL	STANDARD CONSTRUCTION DETAIL INDEX DOUBLE CHECK BACKFLOW PREVENTER 3/4", 1", 1–1/2", OR 2" NTS.	STELAGLER BERT



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CITY OF FLAGLER BEACH S. CENTRAL WATER MAIN REPLACEMENT	FLAGLER BEACH, FLORIDA
M&H NO: 1000709-231 DATE: August 16, 20 DESIGNED BY: CMC DRAWN BY: MRM CHECKED BY: DAK DO NOT SCALE DRAWINGS SHEET CONTENTS STANDARD DETAIL SHEET NO. SHEET NO.	_S



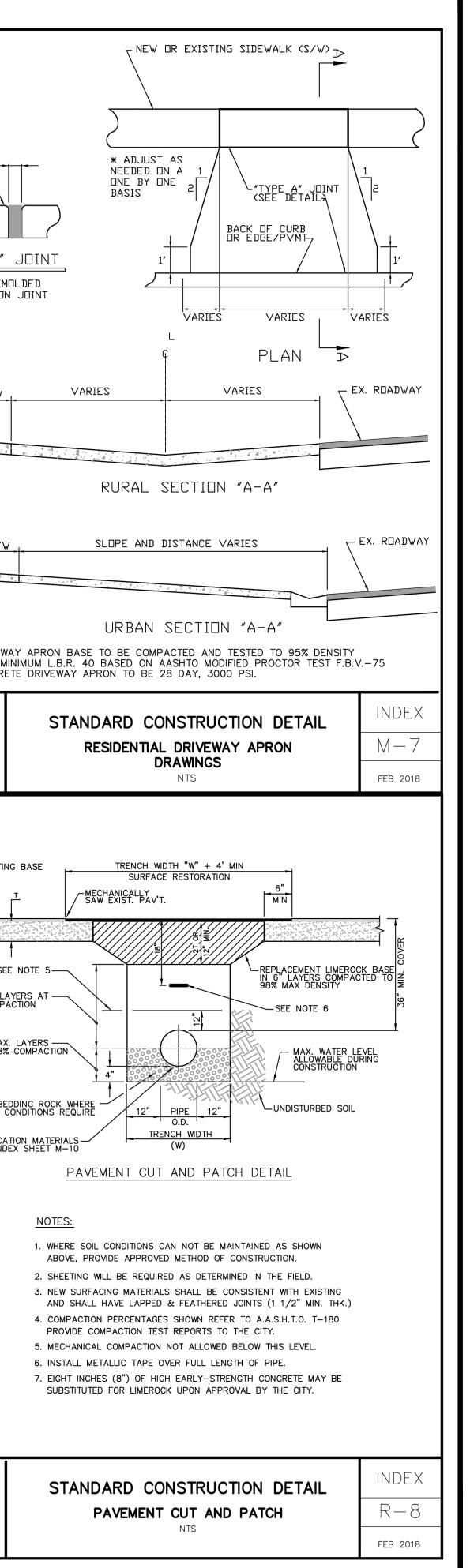
RIES-DIP CLASS 50 PVC OR DIP 12" MIN. 14" PVC OR DIP 14" P		NOTES: 1. STAINLESS S ALL TYPES OF 2. INSTALL REC 3. ALL TAPPING OF A CITY F CONTRACTOF 4. ALL VALVES	OF PIPE MATE QUIRED RESTR G OF MAINS S REPRESENTATI 2" OR GREA	S ONLY WITH 316 STA ERIALS. AINED JOINTS. IN NO I SHALL BE PERFORMED IVE. ALL MATERIALS TO	INLESS STEEL BOLTS ARE PERM NSTANCE SHALL THRUST BLOCK BY THE CONTRACTOR UNDER SI O BE PROVIDED BY DEVELOPER	TO O REDUCE ITING. 6"X16"X6" ((PRECAST BLC E INSTALLED OTATION OF	DCK TO TO REDUCE FITTING.	1/2"- 1/4" ROUND 6 <u>"TYPE A'</u> 1/2" PRE EXPANSION 1/2" PRE EXPANSION 1/2" S/W 6 <u>S/</u> <u>S/</u> UI S/W CONCE	
NSTRUCTION DETAIL	INDEX W—9B feb 2018	ALE CORIDA	STANDARD CONSTRUCTION DETAIL INDEX TAPPING VALVE AND SLEEVE W-17 NTS FEB 2018				OF FLAGLER BRANCH		
TO THE CITY FOR THEIR APPROVAL /S PRIOR TO ANY ROADWAY SUBMITTED BY THE DESIGN ENGINEE ORIDA STATE CERTIFIED BATCH PLA PROVED SPECIFICATIONS HAVE BEEL ON ASPHALT MIXES SHALL BE THAT DESIGN MIXES ATIONS. A STANDARD ONE QUARTER INCH ITER SECTIONS SHALL HAVE AS A SLOPE OF 0.30%. L BE WITHIN ONE QUARTER INCH (1 ED ON BOTH SIDES OF ALL STREETS CONCRETE AT 28 DAYS. JT TO A DEPTH EQUAL TO 1/4 OF TEN FEET (10') WITH EXPANSION JO IRES AND ALONG CURVES AT SIXTY SION JOINT MATERIAL IS REQUIRED TO DEPTH OF THE CONCRETE CURB. B TO MARK THE LOCATION OF WATE URB TO MARK THE LOCATION OF ALL TO MARK THE LOCATION OF ALL TO MARK THE LOCATION OF ALL TO MARK THE LOCATION OF ALL	ER ANTS N 1/4") S DINTS TO ER	ROADWAYITEMROADWAY SUBBASE(BOTTOM OF SUBBASE(BOTTOM OF SUBBASESTABILIZED SUBBASESTABILIZED SUBBASESTABILIZED SUBBASELIMEROCK BASELIMEROCK BASELIMEROCK BASECONCRETE BASECONCRETE BASEASPHALTASPHALTSOIL OP TIMUM MOISTURE/DENSITYCURB SUBBASE (LBR)	COMPA TEST IN-PLACE DENSITY IN-PLACE DENSITY FLORIDA BEARING VALUE (FBV) LIMEROCK BEARING RATIO (LBR) IN-PLACE DENSITY IN-PLACE DENSITY IN-PLACE DENSITY IN-PLACE DENSITY IN-PLACE DENSITY IN-PLACE I	FREQUENCY ONE (1) TEST/300 LF (1) PER VISIBLE CHANGE (1) PER VISIBLE CHANGE (1) PER VISIBLE CHANGE (1) PER JOIL DR (1) PER JOIL OR ONE (1) TEST/300 LF (1) PER SOIL OR ONE (1) TEST/300 LF ONE (1) TEST/300 LF	STANDARD STANDARD STANDARD STANDARD (ASTM D-1557 OR AASHTO T-180) (ASTM D-1557 OR AASHTO T-180) (ASTM D-1557 OR AASHTO T-180) LBR = 40 LBR 100 LBR 100 LBR 100 PER MIX DESIGN PER MIX DESIGN AND PER MIX DESIGN AND SPECS AND JOB SPECS AASHTO T-180) LBR 40	TEST M ASTM C D-2 D-1 ASTM C D-2 D-1 ASTM C D-2 D-1 FM 5 ASTM C D-1	AETHOD -2937 922 556 -2937 922 556 -515 -515 -2937 556 -515 -2937 556 -92937 556 -92937 556 -92937 556 -92937 556 -92937 556 -92937 556 -92937 556 -92937 922 8 NUCLEAR Y ONLY 7 (MODIFIED) 30 (MODIFIED)	G" MAX. 98% COM 4" MA AT 98 3/4" DIA. E EXCAVATION FOR UTILITY PIPE LOO SEE IN	T SEE LAYH IPAC AX. I 8% C
NSTRUCTION DETAIL	INDEX	COLFILAGLER BER	ST	TECHNICAL S	NSTRUCTION DET	AIL	INDEX	OF FLAGLER BER	

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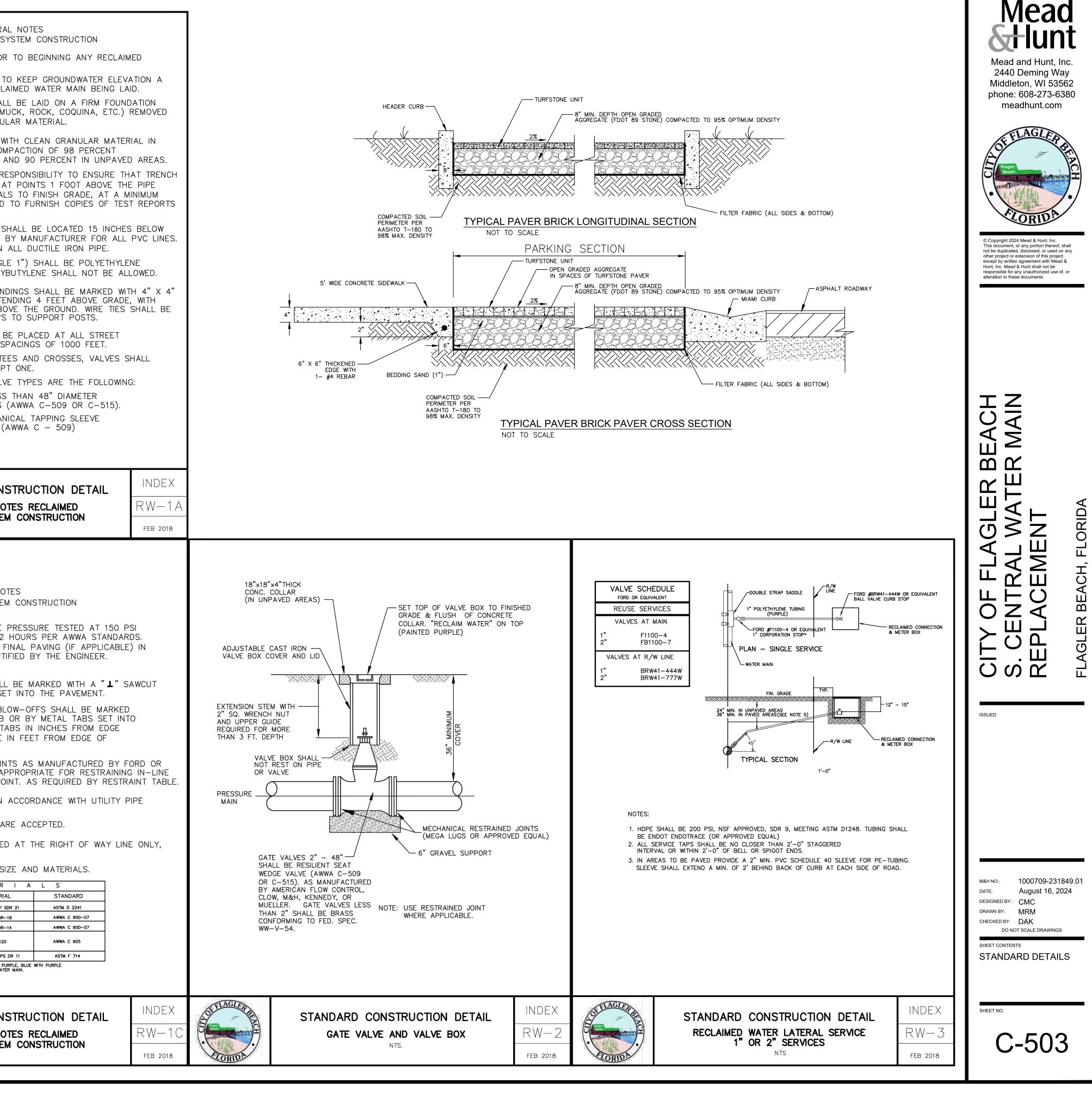
Mead and Hunt, Inc. 2440 Deming Way Middleton, WI 53562 phone: 608-273-6380 meadhunt.com FLAGLER © Copyright 2024 Mead & Hunt, Inc. This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents. ACH \mathbf{O} く Σ Ш Ш Ŷ Ш M 111 4 RID, \geq C Ο Ш М ш CH \triangleleft \bigcirc ШÌ \frown Ш 7 $\mathbf{\mathcal{I}}$ Ш Ш U L GL .ш _ Ш ISSUED 1000709-231849.01 M&H NO.: August 16, 2024 DATE: DESIGNED BY: CMC DRAWN BY: MRM CHECKED BY: DAK DO NOT SCALE DRAWINGS SHEET CONTENTS STANDARD DETAILS

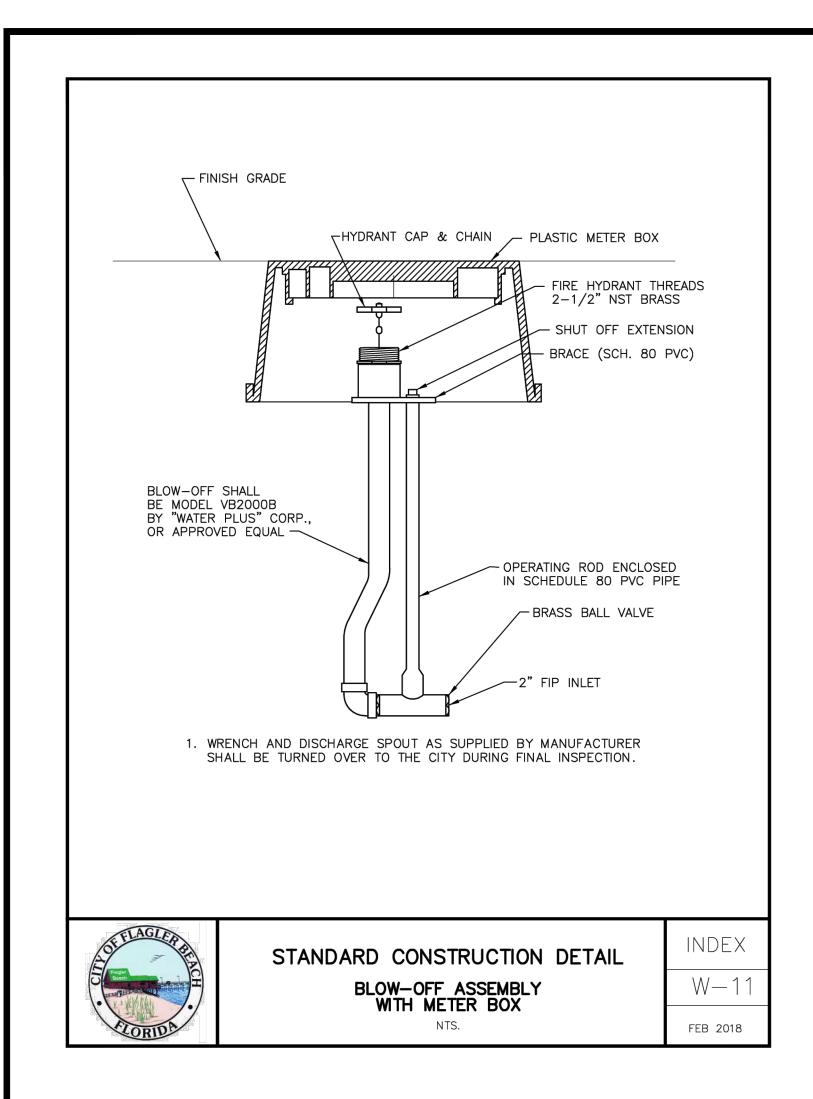
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SHEET NO.

C-502

		│ METALLIC DR VINYL CONTIN │ IDENTIFICATION/WARNING TA			GENERA RECLAIMED WATER S`
GROUND LEVEL 18" MAX. TRACING WIRE 10 THAN SOLID COPPER 1/2" PVC PIPE TYPICAL UTILITY PIPE DEAD END TYPICAL UTILITY PIPE				 THE CITY SHALL BE NOTIFIED PRIOR WATER SYSTEM CONSTRUCTION. DEWATERING SHALL BE PROVIDED T MINIMUM OF 6 INCHES BELOW RECLA ALL RECLAIMED WATER MAINS SHAL WITH ALL UNSUITABLE MATERIAL (MI AND REPLACED WITH CLEAN GRANUL TRENCHES SHALL BE BACKFILLED W MAX. 1' LIFTS WITH A MINIMUM COM (AASHTO-T180) IN PAVED AREAS A IT SHALL BE THE CONTRACTOR'S RE COMPACTION FEET A 	
OF 12" ABOVE GRADE AT EACH INTERVAL AND BE COILED AND PLACED IN A VALVE BOX, METER BOX, MANHOLE, CLEANOUT OR OTHER APPLICABLE STRUCTURE. TRACING WIRE BETWEEN INTERVALS SHALL BE INSTALLED SO AS TO PROVIDE CONTINUOUS CURRENT WHEN LINE LOCATION EQUIPMENT IS CONNECTED TO THE TRACING WIRE. WIRE BRANCHING FROM MAIN LINES SHALL BE LINKED BY A CITY APPROVED CONNECTOR SUCH AS KING # 2011 SAFETY SEALED CONNECTORS OR APPROVED EQUAL. COLOR CODING: POTABLE WATER SYSTEM: RECLAIMED WATER SYSTEM: SANITARY SEWER FORCE MAIN SYSTEM: GREEN				 FINISHED GRADE OR AS SPECIFIED E MARKER TAPE SHALL BE USED ON 7. RECLAIMED WATER SERVICES (SINGL TUBING (PURPLE IN COLOR) ; POLYE 8. ALL RECLAIMED WATER SERVICE ENE LUMBER (PRESSURE TREATED) EXTE WATER SERVICES SECURED 24" ABC USED TO SECURE THE CURB STOPS 	
OF FLAGLER BER		TRUCTION DETAIL	INDEX M—10 feb 2018	ELORIDA	STANDARD CONS GENERAL NO WATER SYSTEM
	GENERAL NOTE RECLAIMED WATER SYSTEM				
12. ALL RECLAIMED WATER VALVE BOXES SHALL BE ADJUSTED TO FINISH GRADE AND THE LIDS PAINTED PURPLE TO MAKE THEM PLAINLY VISIBLE.				GENERAL NO RECLAIMED WATER SYSTEMS SHALL BE STATIC PRESSURE FOR A PERIOD OF 2 TESTS SHALL BE CONDUCTED BEFORE F THE PRESENCE OF THE CITY AND CERTI 22. ALL RECLAIMED WATER SERVICES SHALL INTO THE CURB OR BY METAL TABS SE 23. ALL RECLAIMED WATER VALVES AND BL WITH AN "★" SAWCUT INTO THE CURB THE PAVEMENT. LOCATION OF METAL TA	
 RECLAIMED WATER VALVES SHALL BE COMPLETELY OPENED BY THE CONTRACTOR UPON FINAL ACCEPTANCE OF NEW RECLAIMED WATER SYSTEMS IN THE PRESENCE OF THE CITY. A. HYDRANTS SHALL BE LOCATED AS REQUIRED TO OPTIMIZE 					
 FLUSHING B. ALL HYDRANTS SHALL BE CONSTRUCTED TO MAKE THEM EASILY ACCESSIBLE TO MAINTENANCE PERSONNEL. THE MAIN NOZZLE CONNECTION SHOULD ALWAYS FACE THE STREET AND BE 18"-24" ABOVE GRADE. C. ALL PROPOSED RECLAIMED WATER MAINS SHALL BE FLUSHED AND CLEANED WITH A POLY PIG IN ACCORDANCE WITH LATEST AWWA STANDARDS. 					
15. AS STANDA 4 FEET OFF	5. AS STANDARD PRACTICE, RECLAIMED WATER MAINS SHALL BE INSTALLED 4 FEET OFF THE BACK OF CURB ON OPPOSITE SIDE OF ROADWAY FROM WATER MAIN OR AS APPROVED BY THE CITY.			 OF PAVEMENT SHALL EQUAL DISTANCE PAVEMENT TO VALVE. 24. UNIFLANGE 1300 SERIES PIPE RESTRAIN APPROVED EQUAL MAY BE USED AS AF PRESSURE PIPE EACH SIDE OF PIPE JO 25. TRACING WIRE SHALL BE INSTALLED IN LOCATION MATERIALS DETAIL. 	
16. ALL RECLAI 36 INCHES. INAPPROPRI	16. ALL RECLAIMED WATER MAINS AND SHALL HAVE A MINIMUM COVER OF 36 INCHES. IN SPECIAL CASES WHERE IT IS IMPOSSIBLE OR INAPPROPRIATE TO PROVIDE ADEQUATE COVER, DUCTILE IRON CLASS 350 OR CONCRETE ENCASEMENT MAY BE USED AS APPROVED BY THE				
17. RECLAIMED WATER MAINS SHALL BE AWWA C-900 CL 150, HDPE SDR-11, OR D.I.P. CLASS 350 STANDARD CEMENT LINED.			 26. NO GALVANIZED PIPE, FITTINGS, ETC. AF 27. ALL METER BOXES SHALL BE INSTALLED REGARDLESS OF SIZE. 28. SEE CHART BELOW FOR WATER MAIN SI 		
18. UPON CONSTRUCTION COMPLETION PRIOR TO ACCEPTANCE OF THE SYSTEM, IT SHALL BE THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THAT THE SYSTEM IS PROPERLY FLUSHED, PIGGED, AND PRESSURE TESTED BEFORE PAVING.					
19. MEGALUG OR EQUIVALENT, RESTRAINED JOINT SYSTEM MAY BE USED ON ALL RESTRAINED FITTINGS, VALVES, ETC. MINIMUM DEPTH OF BURY ON PIPES NOT MEETING REQUIRED COVER REQUIREMENTS SHALL FOLLOW THE MOST RECENT DIPRA THRUST RESTRAINT DESIGN GUIDELINES.					DIAMETER MATERIA 2" - 4" PVC 1120 / S > 4" - 12" PVC DR- > 4" - 12" PVC DR-
					14'' - 36'' (16'' - 24'' - DR - 18) PVC 1120
THE MOST 20. <u>CERTIFIED</u> TO PAVING	<u>AS-BUILT DRAWINGS</u> (24"×36") AND ANY USE OF THE SYSTEM. 'LAR, AND ONE (1) DIGITAL COP	. PROVIDE THREE (3) BLUEL			(30"- 36" → DR - 21) ALL SIZES HDPE DIPS NOTE: PVC PIPE COLOR SHALL BE PU LOCATOR TAPE FOR RAW WATE







CITY OF FLAGLER BEACH S. CENTRAL WATER MAIN REPLACEMENT

FLAGLER BEACH, FLORIDA

ISSUED

M&H NO.:1000709-231849.01DATE:August 16, 2024DESIGNED BY:CMCDRAWN BY:MRMCHECKED BY:DAKDO NOT SCALE DRAWINGS

SHEET CONTENTS

C-503