

UTILITY PERMIT

PERMIT NO: 2023-H-194-00154

STATE ROAD INFORMATION

County: Manatee	Section: 13040000	State Road No: SR 684	Beginning Mile Post: 0.011	Ending Mile Post: 0.750
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APPLICANT INFORMATION

The Utility Agency Owner (UAO) shall be identified in this Applicant Information Box. When the UAO is a City or County and desires to have the Utility Builder make a joint permit applicant, as prescribed in Section 2.1(4) of the 2017 Utility Accommodation Manual (UAM), the Utility Builder shall also be identified in this Applicant Information Box. A Utility Builder alone cannot apply for a utility permit without the City or County adding them as a joint applicant.

<u>Utility Agency/Owner (UAO)</u>		<u>Utility Builder (only applicable when the UAO is a City or County)</u>	
Name:	<u>Manatee County</u>	Name:	_____
Contact Person:	<u>Manatee County</u>	Contact Person:	_____
Address:	<u>1022 26th Avenue East</u>	Address:	_____
City:	<u>Bradenton</u>	City:	_____
State:	<u>Florida</u>	State:	_____
Zip:	<u>34208</u>	Zip:	_____
Telephone:	<u>(941) 708-7450 ext. _____</u>	Telephone:	_____
Email:	<u>scott.may@mymanatee.org</u>	Email:	_____

WORK DESCRIPTION

The Applicant(s) requests permission from the Florida Department of Transportation (FDOT) to construct, operate, and maintain the utilities as described below and as depicted in the incorporated documentation.

The SR 684 (Cortez Road) Water and Force Main Intracoastal Crossing project consists of relocating the 24-inch water main and 20-inch force main, via horizontal directional drill (HDD), to the south side of the existing Cortez Bridge, outside of the proposed bridge alignment. The water main is approximately 3250 LF of 24' HDPE DR 9 and the force main is approximately 3250 LF of 20' HDPE DR 9. An additional ITS Conduit will be installed along with the force main via HDD.

Utility Work No: _____

Additional sheets are attached and are incorporated into this permit Yes No

For FDEP certification, the FDOT agency report is attached in accordance with UAM Section 2.4.1 (13) Yes No

TRAFFIC CONTROL (TCP)

The TCP will comply with the following 600 series index(es) 601, 602, 603, 605, 660

A TCP has been attached and incorporated into this permit application in compliance with UAM Section 2.4.2.

MOT Technician's contact information (may be supplied at the two (2) business day notification to FDOT):

Name: _____ Telephone: _____ Email: _____

COMMENCEMENT OF WORK

The UAO and/or Utility Builder shall commence actual construction in good faith within sixty (60) calendar days after approval of the permit application. If the beginning date is more than sixty (60) calendar days from the date of approval, the UAO and/or Utility Builder must review the permit with the FDOT Approving Engineer listed to make sure no changes have occurred to the transportation facility that would affect the permit's continued approval. The UAO and/or Utility Builder shall make good faith efforts to expedite the work and complete the work within the calendar days indicated.

Anticipated Start Date: 9/18/2023

Calendar days needed to completed: 730

Approved
2023-H-194-00154
Dan Rose
10/4/2023

Florida Department of Transportation
UTILITY PERMIT

PERMIT NO: 2023-H-194-00154

APPLICANT SIGNATURE

By the below signature(s) the UAO and/or Utility Builder agree(s) to construct, operate, and maintain the work as noted in the above Work Description, shown in plans and incorporated documents, in compliance with the UAM, all instructions noted in the FDOT Special Instructions Box, and special instructions incorporated into this permit. The UAO and/or Utility Builder declares, the location of all existing utilities that it owns or has an interest in, both aerial and underground, are accurately shown on the plans of the work areas. In accordance with UAM Section 2.8, the UAO and/or Utility Builder further declares that a letter of notification was delivered to the owners of other facilities within the work areas and that those listed below are the only facility owners known to be involved or potentially impacted by the proposed work.

Date Notified:	Name of other facility owners (attach additional sheets if necessary).
<u>5/2/2022</u>	<u>Brighthouse Networks</u>
<u>5/2/2022</u>	<u>FPL</u>
<u>5/2/2022</u>	<u>MCI (Verizon)</u>
<u>5/2/2022</u>	<u>Manatee County (IT)</u>
<u>5/2/2022</u>	<u>Manatee County Utility Operations</u>

Utility Agency/Owner

Utility Builder (when applicable)

Signature: SCOTT MAY (digital signature) Date: 5/9/2023
 Name (printed): SCOTT MAY
 Title: _____

Signature: _____ Date: _____
 Name (printed): _____
 Title: _____

FDOT PROJECT INFORMATION

Pursuant to UAM Section 2.1(10), the utility work is within FDOT projects listed below and must have a Utility Work Schedule for each project approved prior to commencement of work within the FDOT project limits:
FDOT construction is proposed or underway. Refer to Financial Project Id: 440120-1, 435038-2, 449116-1, 430204-2 and 430204-1
 This work is related to an approved Utility work schedule.

FDOT SPECIAL INSTRUCTIONS

In accordance with UAM Section 2.7, FDOT incorporates the below and attached special instructions into this permit.
1. Your project falls within the limits of the Manatee County Advanced Traffic Management System (ATMS). The Manatee County ATMS is owned and operated by the FDOT while the County maintains the system as part of the Traffic Signal Maintenance and Compensation Agreement. The ATMS infrastructure within this project's limits includes underground fiber optic communication infrastructure along SR 684. The PDF file attached to this comment shows the approximat ... (see special instructions cont. page)

Additional FDOT Special Instructions are attached and incorporated into this permit. Yes No

PERMIT APPROVAL

By signature below, FDOT gives permission to the UAO and /or Utility Builder to construct, operate, and maintain the utilities indicated in this Utility Permit in compliance with the UAM, all incorporated documents, and special instructions. Any changes to the approved work must be approved by the FDOT's Approving Engineer and attached and incorporated into this permit in accordance with UAM Section 2.11.

Approving Engineer: Dan Rose (digital signature) Date: 10/4/2023
 Name: Dan Rose
 Title: Consultant Staff

Notification of Utility Work to be provided to: Telephone (941) 708-4400 ext. _____ or Email: curtis.vilt@dot.state.fl.us

An FDOT Representative is required to be present on the worksite prior to commencement of work. Yes No

Rep. Name: _____ Telephone _____ Email: _____

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 2023-H-194-00154
 Dan Rose
 10/4/2023

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CERTIFICATION

I, the undersigned UAO and/or Utility Builder, hereby CERTIFY that the utilities were constructed and inspected in compliance with the UAM all incorporated documents, and special instructions. Pursuant to UAM Section 2.11, all changes have been approved by the FDOT's Approving Engineer and incorporated into this permit along with all other material certifications, test results, bore logs, approved plans changes, as-built plans or other required documentation.

I also CERTIFY that work began on _____ and was completed on _____ and that the area was left in as good or better condition than when the work began.

Utility Agency/Owner

Utility Builder (when applicable)

Signature: _____ Date _____

Signature: _____ Date _____

Name (printed): _____

Name (printed): _____

Title: _____

Title: _____

FINAL INSPECTION OF WORK

The work was inspected and found to be in non-compliance as noted below:

All issues of non-compliance listed above have been brought into compliance and/or FDOT has no outstanding issues that need to be addressed by the UAO and/or Utility Builder. However, this final inspection does not release the UAO and/or Utility Builder of their continuing responsibilities pursuant to Rule 14-46.001, the UAM, all incorporated documents, and special instructions.

FDOT Inspector: _____ Date: _____

Name: _____

Title: _____

Approved
2023-H-194-00154
Dan Rose
10/4/2023

PERMIT NO.: 2023-H-194-00154

STATE ROAD INFORMATION:

NAME OF OTHER FACILITY OWNERS / DATE NOTIFIED:

Facility Name: Spectrum, Date Notified: 5/2/2022, Facility Name: TECO / Peoples Gas, Date Notified: 5/2/2022

FDOT PROJECT INFORMATION:

FDOT construction is proposed or underway. Refer to Financial Project Id: 440120-1, 435038-2, 449116-1, 430204-2 and 430204-1

This work is related to an approved Utility Work Schedule.

THE WORK WAS INSPECTED AND FOUND TO BE IN NON-COMPLIANCE AS NOTED BELOW:

Approved
2023-H-194-00154
Dan Rose
10/4/2023

The complete special instructions could not fit in the space allotted on Page 2 of the Utility Permit so they are displayed below.

Special FDOT Instructions

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2. Based on the permit plans, it appears this project will be installing underground infrastructure near the existing ATMS infrastructure. It is the responsibility of this project's contractor to avoid conflicts with the existing underground ATMS infrastructure by, at minimum, locating the facilities prior to installing the new underground infrastructure. Any impacts to the existing ATMS infrastructure that were not identified in this review are the responsibility of the permittee to resolve within this project.
3. Permit shall be rendered void if the Manatee Ops Permits Office is not notified (i.e. Phone and/or Email) a minimum of TWO (2) BUSINESS DAYS PRIOR TO STARTING WORK, that NO LANE CLOSURES ARE REQUIRED and again immediately upon COMPLETION OF WORK. Phone No: 941-708-4400, Email: curtis.vilt@dot.state.fl.us. (Upon notifying provide: Permit Number, Contact Information, Location, General Scope and Timeframe of the Work)
4. If LANE CLOSURE(S) for this Permit are required, the Permittee MUST notify the Department (Valerie Everts, Phone No: 941-708-4433, Email: valerie.everts@dot.state.fl.us) two (2) weeks prior to starting the LANE CLOSURE(S) to inform the motoring public. FAILURE TO COMPLY WILL RESULT IN DELAY TO START WORK.
5. Permit work is being proposed during FPN 435038-2 and it will be the RESPONSIBILITY OF THE PERMITTEE TO COORDINATE with the FDOT's contractor, Oceanik, US, Inc. Please contact FDOT's PM, Steve Nappi @ O: 941-979-5476, M: 239-229-5853 or Email: snappi@hardestyhanover.com for COORDINATION efforts.
6. All portions of disturbed ROW shall be restored with sod within seventy-two (72) hours of completion of work.

Approved
2023-H-194-00154
Dan Rose
10/4/2023

Manatee County ATMS Infrastructure



Approved
2023-11-19 4:00 PM
Dan Rose
10/4/2023

400 ft



CONSTRUCTION PLANS FOR SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING

MANATEE COUNTY, FLORIDA

SEPTEMBER 2023

MANATEE COUNTY PROJECT #6093070



PROJECT TEAM:

OWNER:
MANATEE COUNTY
1022 26TH AVE. E.
BRADENTON, FL 34208
CONTACT: ALBERT ROSENSTEIN, P.E., C.P.M.
941-708-7450 EXT. 7219

HYATT SURVEY SERVICES, INC
2012 LENA ROAD
BRADENTON, FL 34211
CONTACT: RUSSELL HYATT, P.S.M.
941-748-4693

ENGINEER:
KIMLEY-HORN AND ASSOCIATES, INC.
100 2ND AVENUE SOUTH, SUITE 105N
ST. PETERSBURG, FL 33701
CONTACT: JORDAN WALKER, P.E.
727-302-4320

SURVEYOR:
McKIM & CREED
1365 HAMLET AVE
CLEARWATER, FL 33756
CONTACT: CHRIS BOSSHART, P.S.M.
813-549-3740

UTILITY CONTACTS:

COMPANY	CONTACT	TELEPHONE NUMBER
BRIGHTHOUSE NETWORKS	TOM WRIGHT	941-345-1348
FPL	GREG COKER	941-723-4430
MCI (VERIZON)	JAMES BARRA	813-928-9881
MANATEE COUNTY (IT)	BILL KERSEY	941-708-4501 EXT. 5801
MANATEE COUNTY UTILITY OPERATIONS	MICHAEL STURM	941-708-7450 EXT. 7323
SPECTRUM	JAMES CRUZAN	727-329-2846
TECO/PEOPLES GAS	ANTHONY BAUBLITZ SR.	941-342-4025

GEORGE E. ROLAND, PROFESSIONAL ENGINEER,
STATE OF FLORIDA, LICENSE NO. 62338

JORDAN W. WALKER, PROFESSIONAL ENGINEER,
STATE OF FLORIDA, LICENSE NO. 78652

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12740 GRAN BAY PARKWAY
SUITE 2350
JACKSONVILLE, FL 32258
REGISTRY 35106
GEORGE E. ROLAND, P.E. NO. 62338

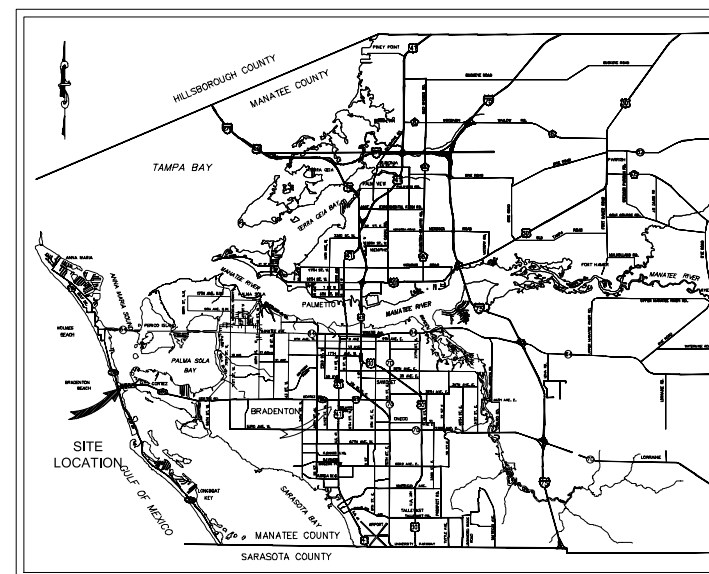
KIMLEY-HORN AND ASSOCIATES, INC.
200 CENTRAL AVENUE
SUITE 600
ST PETERSBURG, FL 33701
REGISTRY 35106
JORDAN W. WALKER, P.E. NO. 78652

THE ABOVE NAMED PROFESSIONAL ENGINEER
SHALL BE RESPONSIBLE FOR THE FOLLOWING
SHEETS IN ACCORDANCE WITH RULE
61G15-23.004, F.A.C.

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SHALL BE RESPONSIBLE FOR THE FOLLOWING
SHEETS IN ACCORDANCE WITH RULE
61G15-23.004, F.A.C.

SHEETS 22-23

SHEETS 1-21 AND 24-27



PROJECT VICINITY MAP
N.T.S.

**100% SUBMITTAL
PERMIT #2023-H-194-00154,
SR 684/US 41 CORTEZ RD W,
SECTION #13040000,
BMP #0.011, EMP #0.750**

PREPARED BY
Kimley»Horn

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200 CENTRAL AVENUE, SUITE 600
ST. PETERSBURG, FL 33701
PHONE (727) 547-3999
WWW.KIMLEY-HORN.COM Registry No. 35106

THE SITE CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR. AUTOCAD FILES WILL BE FURNISHED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN AUTOCAD FILES AND SITE CONSTRUCTION PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO THAT STAKEOUT.

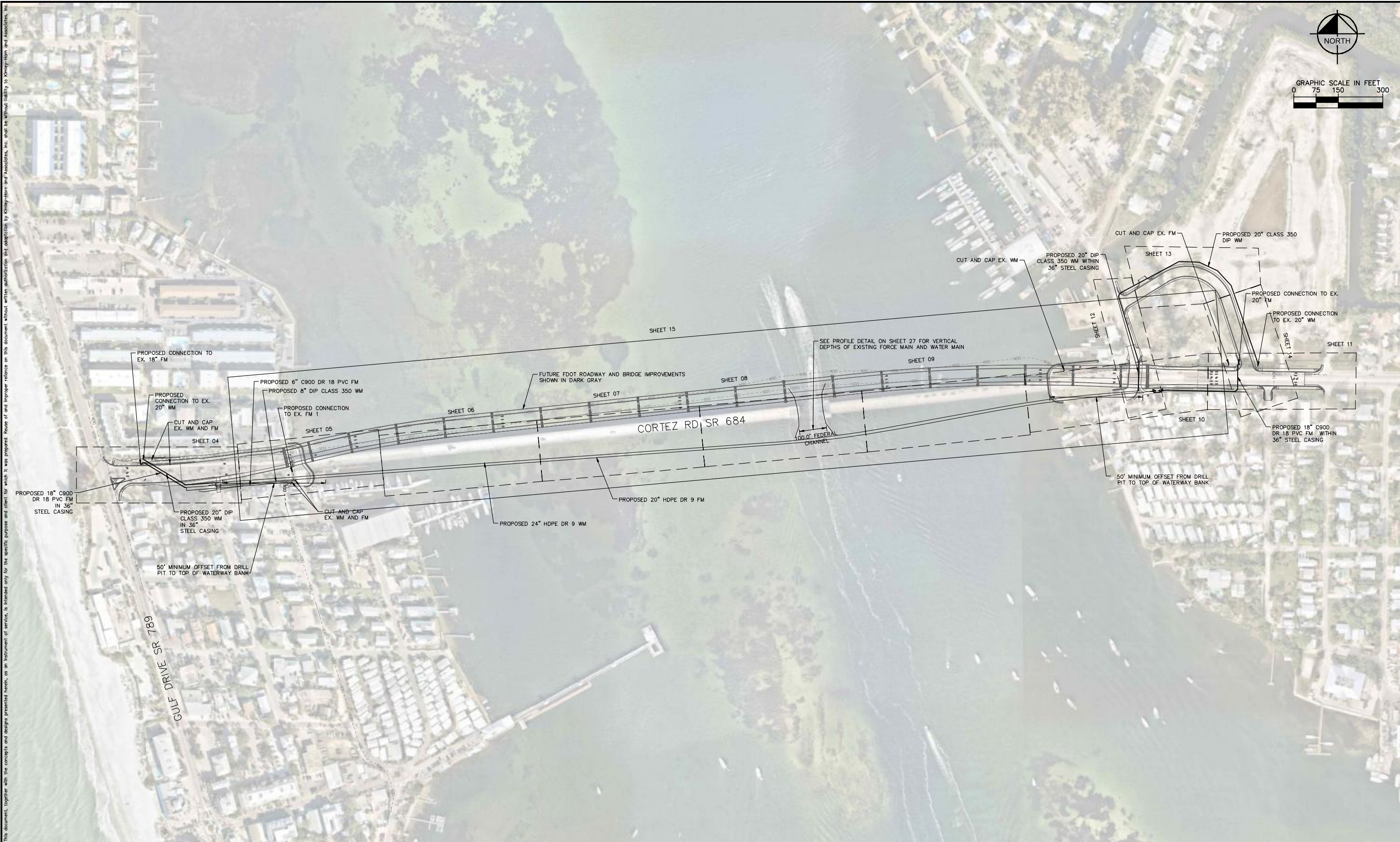
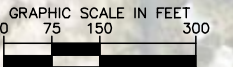
SHEET LIST	
Sheet Number	Sheet Title
01	COVER SHEET
02	GENERAL NOTES
03	KEY SHEET
04	WEST APPROACH
05	WEST APPROACH
06	INTRACOASTAL CROSSING
07	INTRACOASTAL CROSSING
08	INTRACOASTAL CROSSING
09	INTRACOASTAL CROSSING
10	EAST APPROACH
11	EAST APPROACH
12	EAST APPROACH
13	EAST APPROACH
14	EAST APPROACH
15	OVERALL DRILL PLAN
16	FORCE MAIN RELOCATION
17	WATER MAIN RELOCATION
18	EAST APPROACH CORTEZ RD CROSS SECTIONS
19	MAINTENANCE OF DRILL PLAN - WEST APPROACH
20	MAINTENANCE OF DRILL PLAN - EAST APPROACH
21	MAINTENANCE OF DRILL PLAN - LAY DOWN AREA
22	MAINTENANCE OF TRAFFIC - PEDESTRIAN / BICYCLE
23	MAINTENANCE OF TRAFFIC - VEHICLES
24	DETAILS 01
25	DETAILS 02
26	DETAILS 03
27	DETAILS 04

No.	REVISIONS	DATE	BY

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APPROVED
DATE: 2023-09-14
PROJECT NO.: 148400081
SHEET NUMBER: 01

JORDAN WALKER, PE
FLORIDA LICENSE NUMBER: 78652
DATE: 10/9/2023



No.	REVISIONS	DATE	BY

Kimley»Horn

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 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT 148400081
DATE SEPTEMBER 2023
SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY SLB
CHECKED BY KMS

 **SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING**

MANATEE COUNTY

LICENSED PROFESSIONAL
 JORDAN W. WALKER, P.E.
 FL LICENSE NUMBER
 78652

KEY SHEET

Approved
 2023-H-194-00154
 Dan Rose
 10/4/2023

SHEET NUMBER
03

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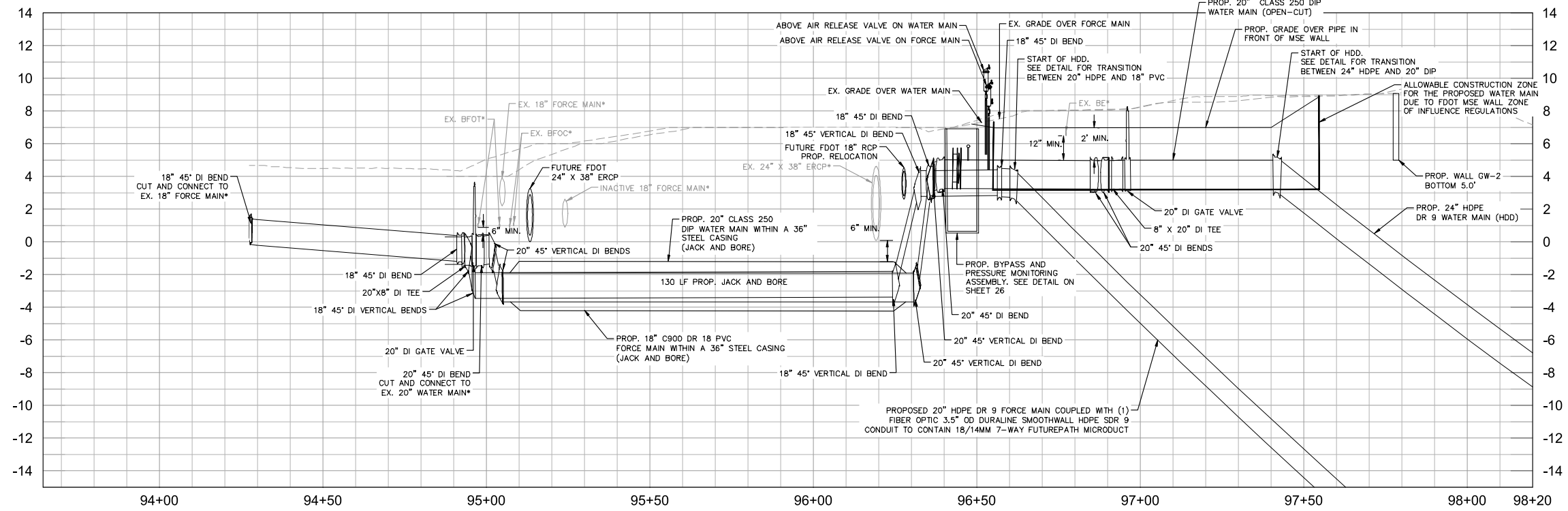
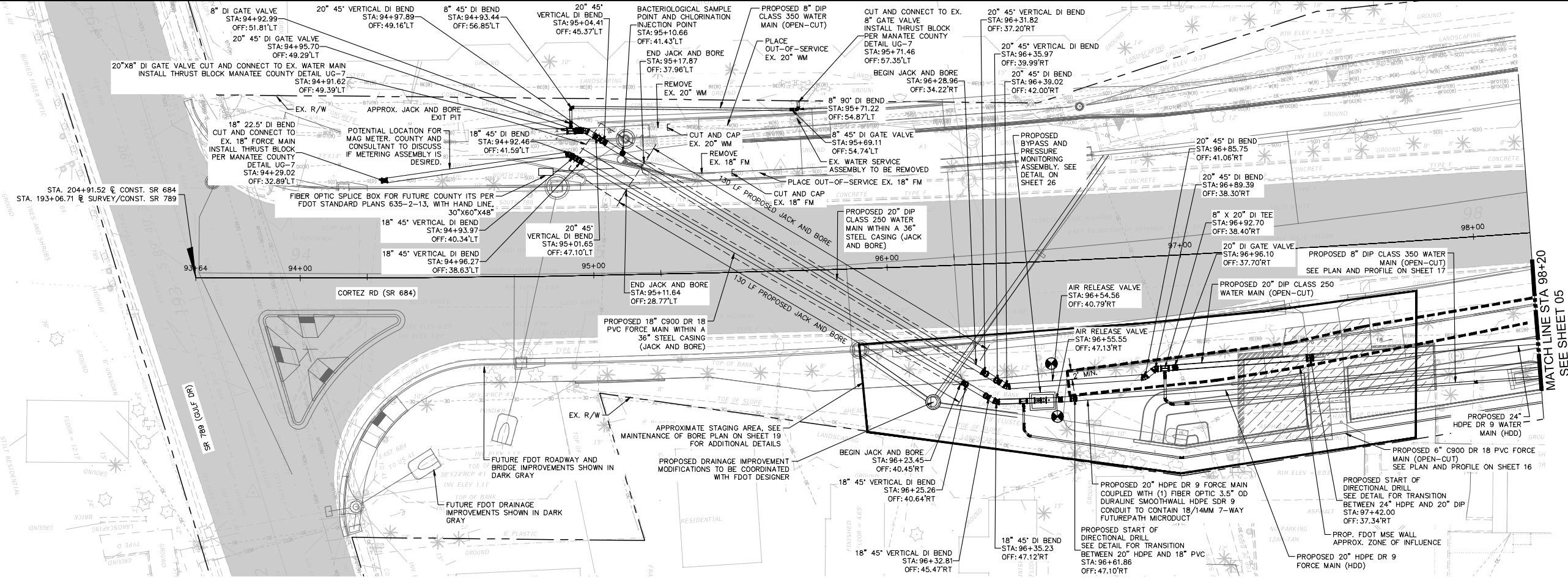
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 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 4'

- LEGEND
- SIDEWALK/CONCRETE DRIVEWAY RESTORATION
 - FULL ROADWAY RESTORATION
 - MILLING AND RESURFACING
 - REMOVE & REPLACE CURB

NOTES:
 THE ELEVATIONS OF THE UTILITIES MARKED WITH AN ASTERISK (*) HAVE BEEN ASSUMED ON THE BASIS OF TYPICAL ANTICIPATED SOIL COVERAGE. CONTRACTOR SHALL NOT RELY ON THIS INFORMATION FOR CONSTRUCTION, BUT SHALL BE RESPONSIBLE FOR FIELD LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL UTILITIES CROSSING THE PROPOSED PIPELINES. CONTRACTOR SHALL INCLUDE IN THE UNIT COST OF THE SUBJECT FORCE MAIN CONSTRUCTION, THE COST OF UTILITY ADJUSTMENTS NECESSARY TO ATTAIN DESIGN MINIMUM SEPARATION FOR UTILITIES CONFLICTING WITH THE CONSTRUCTION OF THE PROPOSED FORCE MAIN. INTERRUPTIONS OF ANY EXISTING UTILITY SERVICES SHALL BE NOTICED TO EFFECTED CUSTOMERS A MINIMUM OF 48 HOURS IN ADVANCE AND SHALL NOT EXCEED 4 HOURS IN DURATION.
 WHERE CONCRETE REPAIRS ARE NECESSARY AND EXPANSION JOINTS ARE PRESENT, CONTRACTOR TO REMOVE AND REPLACE CONCRETE UP TO THE NEXT EXPANSION JOINT; OTHERWISE, REPLACE CONCRETE AS NECESSARY.

- NOTES:
- CONTRACTOR SHALL RESTRAIN PIPE PER RESTRAIN LENGTHS TABLE ON DETAIL SHEET 24
 - CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC)
 - EXISTING 2" GAS LINE AND BURIED ELECTRIC TO BE FIELD LOCATED WHERE NECESSARY PRIOR TO CONSTRUCTION
 - WHERE LESS THAN 6" MINIMUM SEPARATION IS SHOWN ALL JOINTS SHALL BE RESTRAINED IN ORDER TO MEET FDEP SEPARATION REQUIREMENTS.

GROUNDWATER / DEWATERING NOTE:
 THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



No.	REVISIONS	DATE	BY

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KHA PROJECT
 148400081

DATE
 SEPTEMBER 2023

SCALE AS SHOWN

DESIGNED BY JWW

DRAWN BY SLB

CHECKED BY KMS

Manatee County

SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING

MANATEE COUNTY

LICENSED PROFESSIONAL

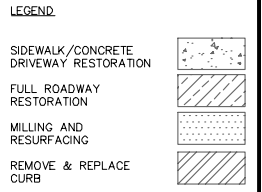
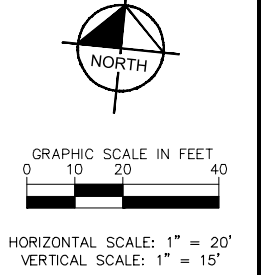
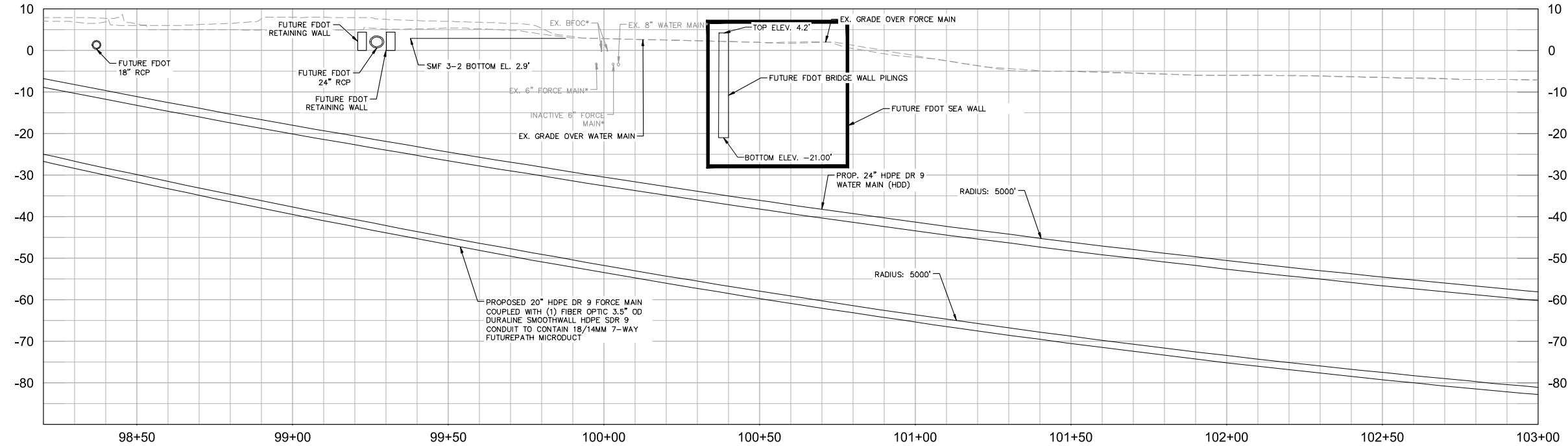
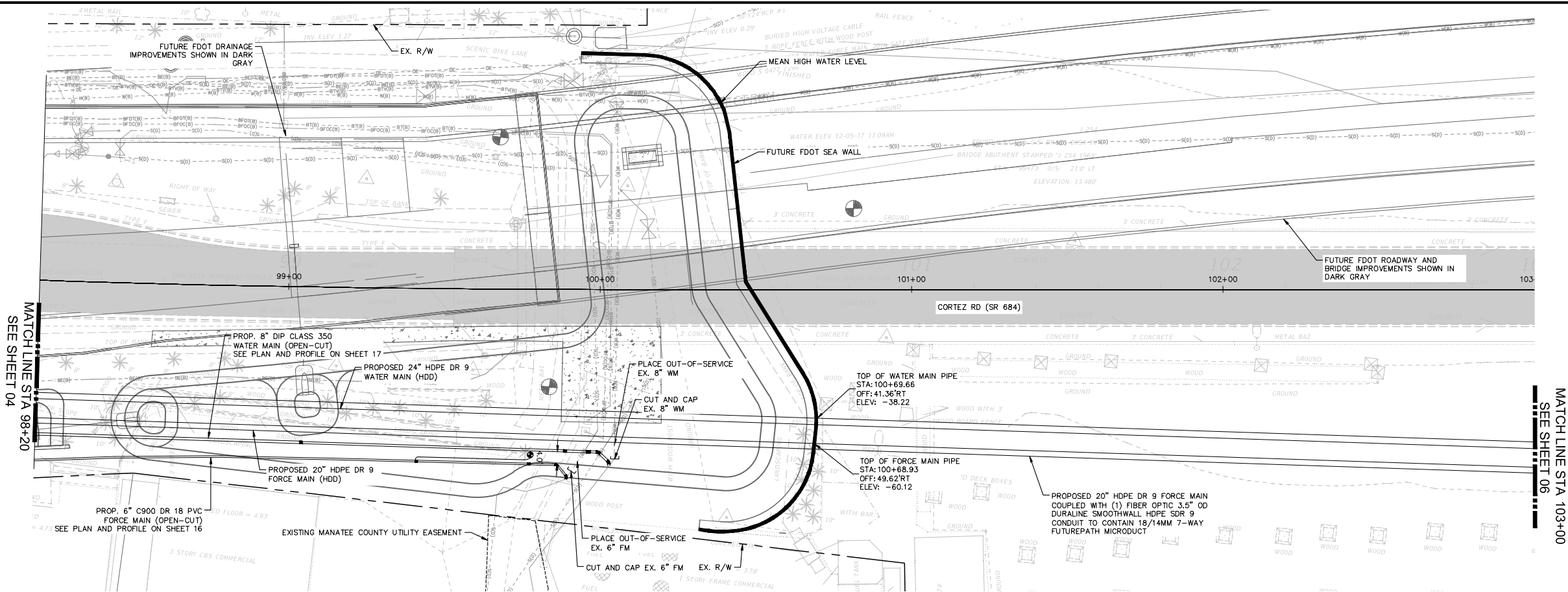
JORDAN W. WALKER, P.E.

FL LICENSE NUMBER
 78652

FL DATE:

Approved SHEET NUMBER
 2023-H-194-00154
 Dan Rose 04
 10/4/2023

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***NOTES:**
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No.	REVISIONS	DATE	BY

Kimley-Horn

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 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT
148400081

DATE
SEPTEMBER 2023

SCALE AS SHOWN

DESIGNED BY JWW

DRAWN BY SLB

CHECKED BY KMS

Manatee County

SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING

MANATEE COUNTY

LICENSED PROFESSIONAL

JORDAN W. WALKER, P.E.

FL LICENSE NUMBER
78652

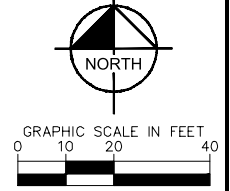
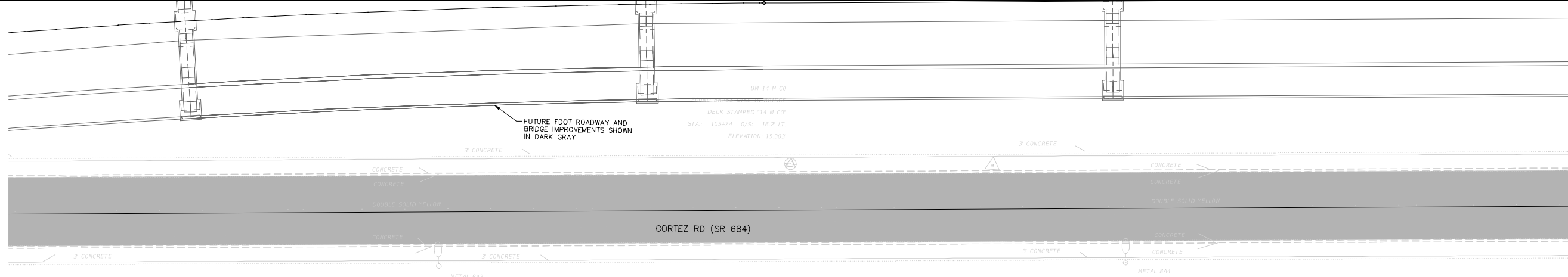
FL DATE:

WEST APPROACH

Approved
 2023-H-194-00154
 Dan Rose
 10/4/2023

SHEET NUMBER
05

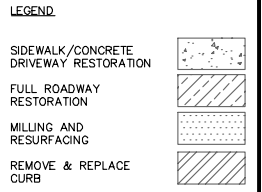
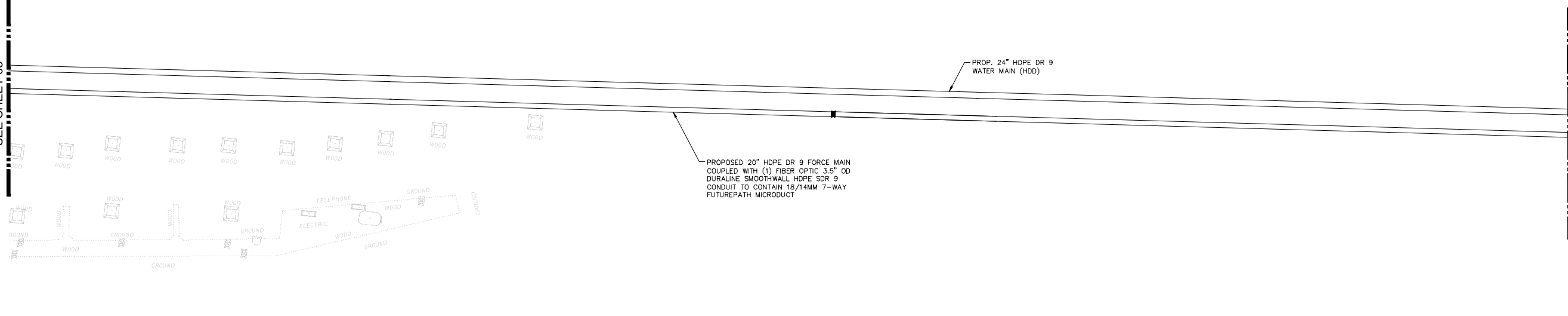
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HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

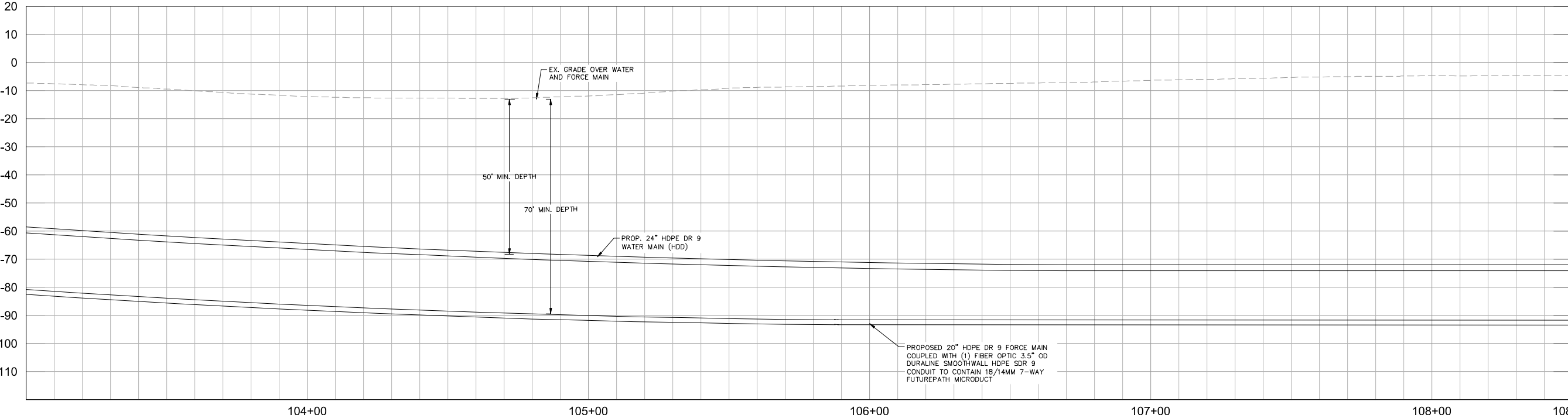
MATCH LINE STA 103+00
SEE SHEET 05

MATCH LINE STA 108+50
SEE SHEET 07



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No.	REVISIONS	DATE	BY

Kimley-Horn

© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
200 CENTRAL AVENUE, SUITE 600, ST. PETERSBURG, FL 33701
PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT 148400081
DATE SEPTEMBER 2023
SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY SLB
CHECKED BY KMS

Manatee County FLORIDA

SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING

MANATEE COUNTY

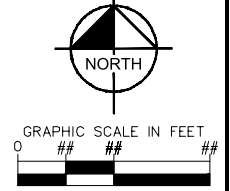
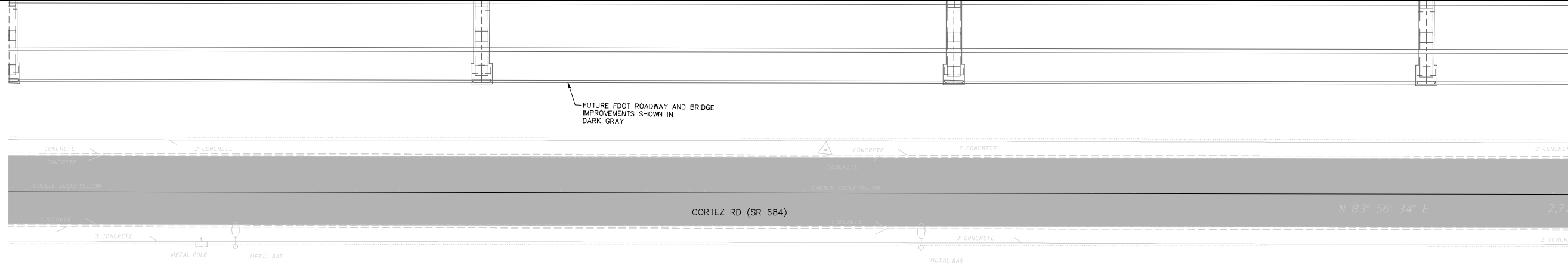
LICENSED PROFESSIONAL JORDAN W. WALKER, P.E.
FL LICENSE NUMBER 78652
FL DATE:

INTRACOASTAL CROSSING

Approved
2023-H-194-00154
Dan Rose
10/4/2023

SHEET NUMBER
06

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MATCH LINE STA 108+50
SEE SHEET 06

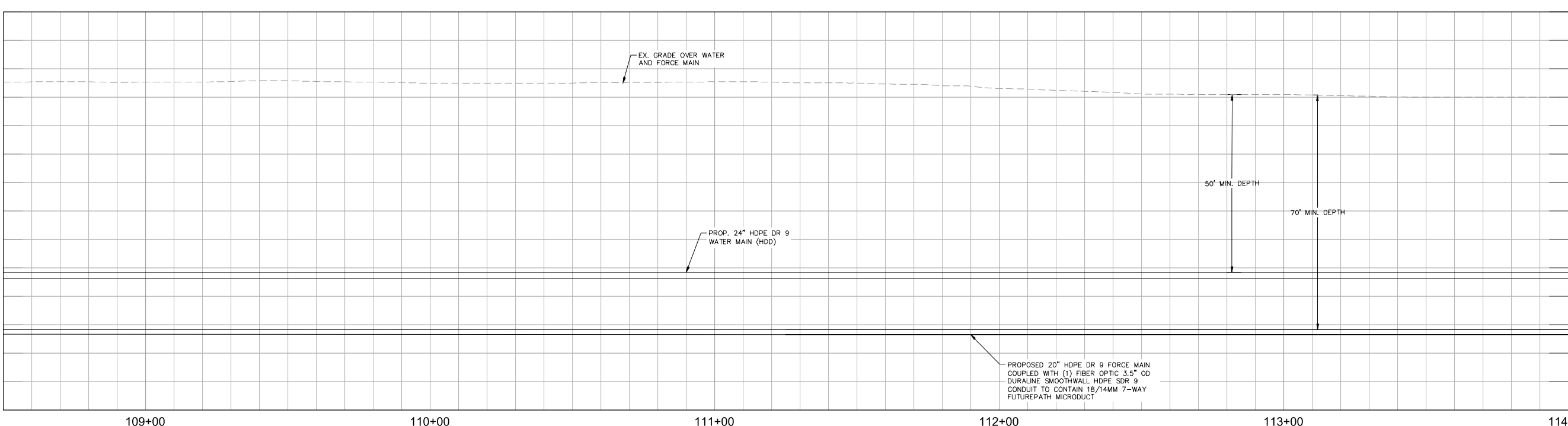
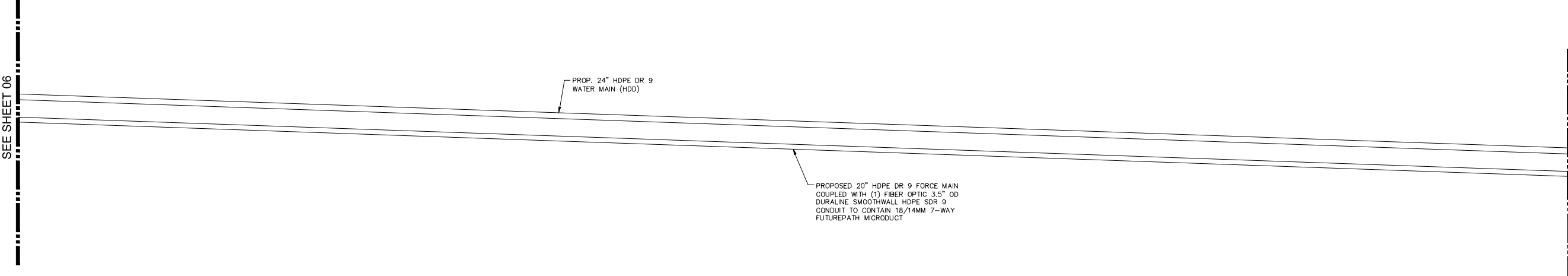
MATCH LINE STA 114+00
SEE SHEET 08

LEGEND

SIDEWALK/CONCRETE DRIVEWAY RESTORATION	
FULL ROADWAY RESTORATION	
MILLING AND RESURFACING	
REMOVE & REPLACE CURB	

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Kimley»Horn

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200 CENTRAL AVENUE, SUITE 600, ST. PETERSBURG, FL 33701
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WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT 148400081
DATE SEPTEMBER 2023
SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY SLB
CHECKED BY KMS

SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING

MANATEE COUNTY

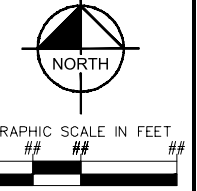
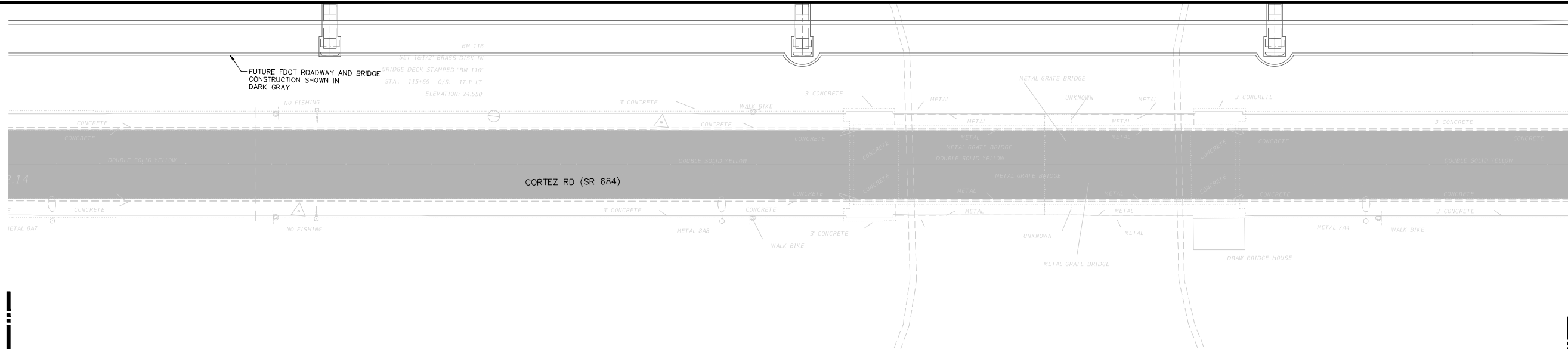
LICENSED PROFESSIONAL
JORDAN W. WALKER, P.E.
FL LICENSE NUMBER
78652

INTRACOASTAL CROSSING

APPROVED
2023-H-194-00154
Dan Rose
10/4/2023

SHEET NUMBER
07

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VERTICAL SCALE: 1" = 20'

MATCH LINE STA 114+00
SEE SHEET 07

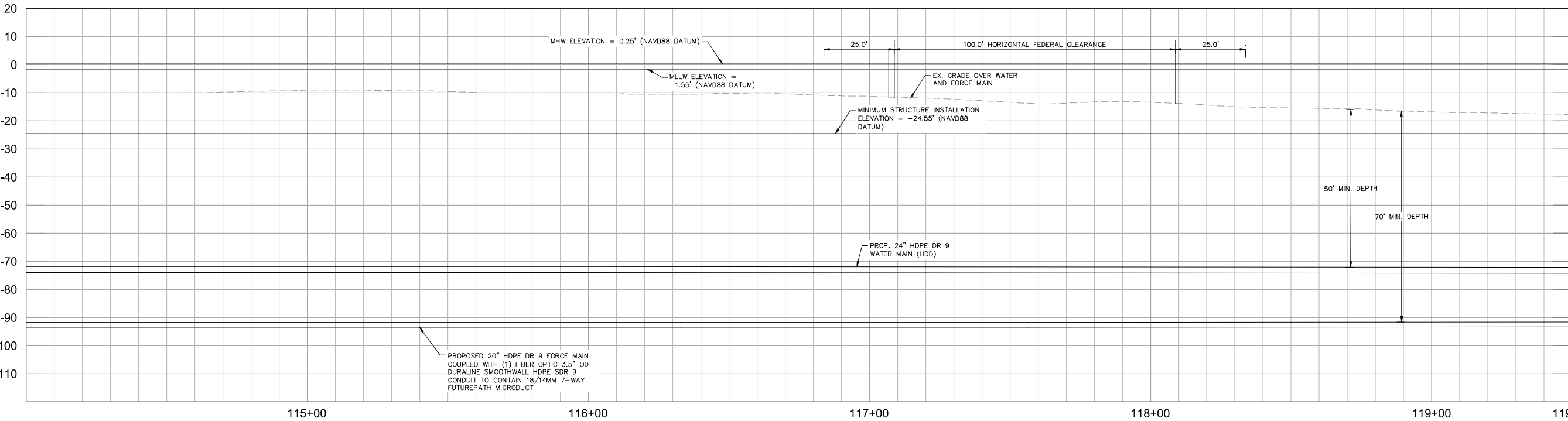
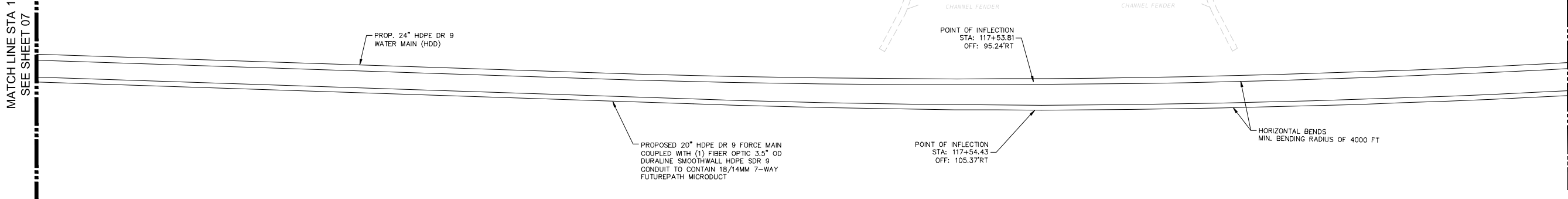
MATCH LINE STA 119+50
SEE SHEET 09

LEGEND

SIDEWALK/CONCRETE DRIVEWAY RESTORATION	
FULL ROADWAY RESTORATION	
MILLING AND RESURFACING	
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PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT 148400081
DATE SEPTEMBER 2023
SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY SLB
CHECKED BY KMS

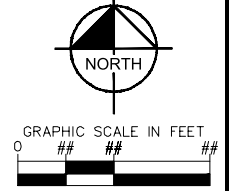
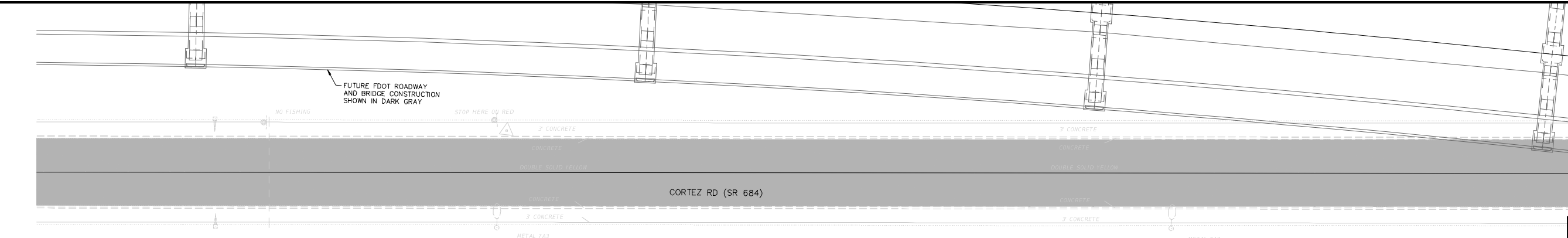
Manatee County FLORIDA
SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING
MANATEE COUNTY

LICENSED PROFESSIONAL JORDAN W. WALKER, P.E.
FL LICENSE NUMBER 78652
FL DATE:

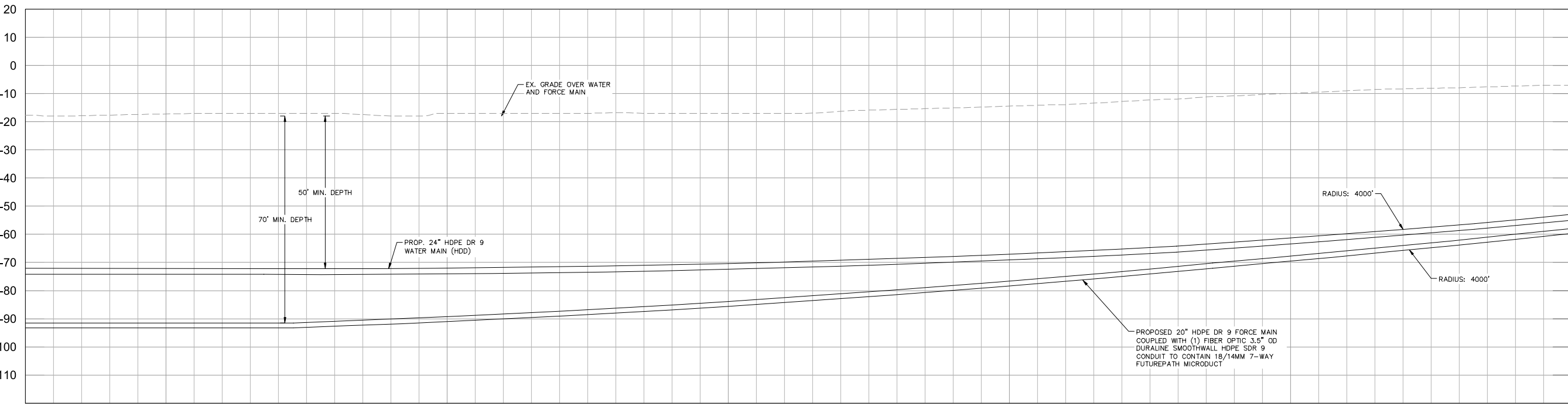
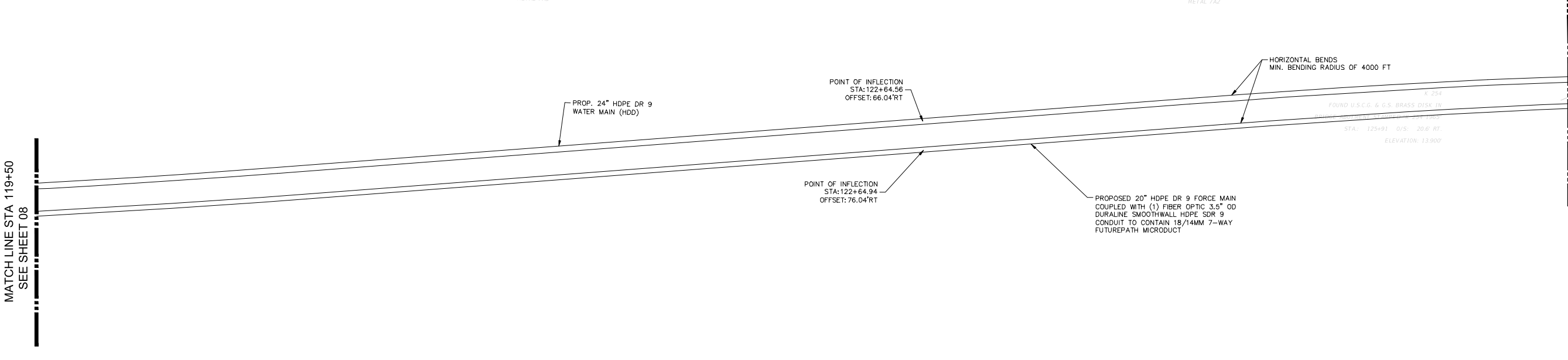
Approved
2023-H-194-00154
Dan Rose
10/4/2023

SHEET NUMBER
08

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



LEGEND

SIDEWALK/CONCRETE DRIVEWAY RESTORATION	
FULL ROADWAY RESTORATION	
MILLING AND RESURFACING	
REMOVE & REPLACE CURB	

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Kimley»Horn
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PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT 148400081
DATE SEPTEMBER 2023
SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY SLB
CHECKED BY KMS

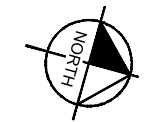
Manatee County FLORIDA
SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING
MANATEE COUNTY

LICENSED PROFESSIONAL
JORDAN W. WALKER, P.E.
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INTRACOASTAL CROSSING
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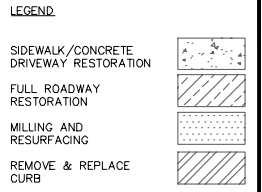
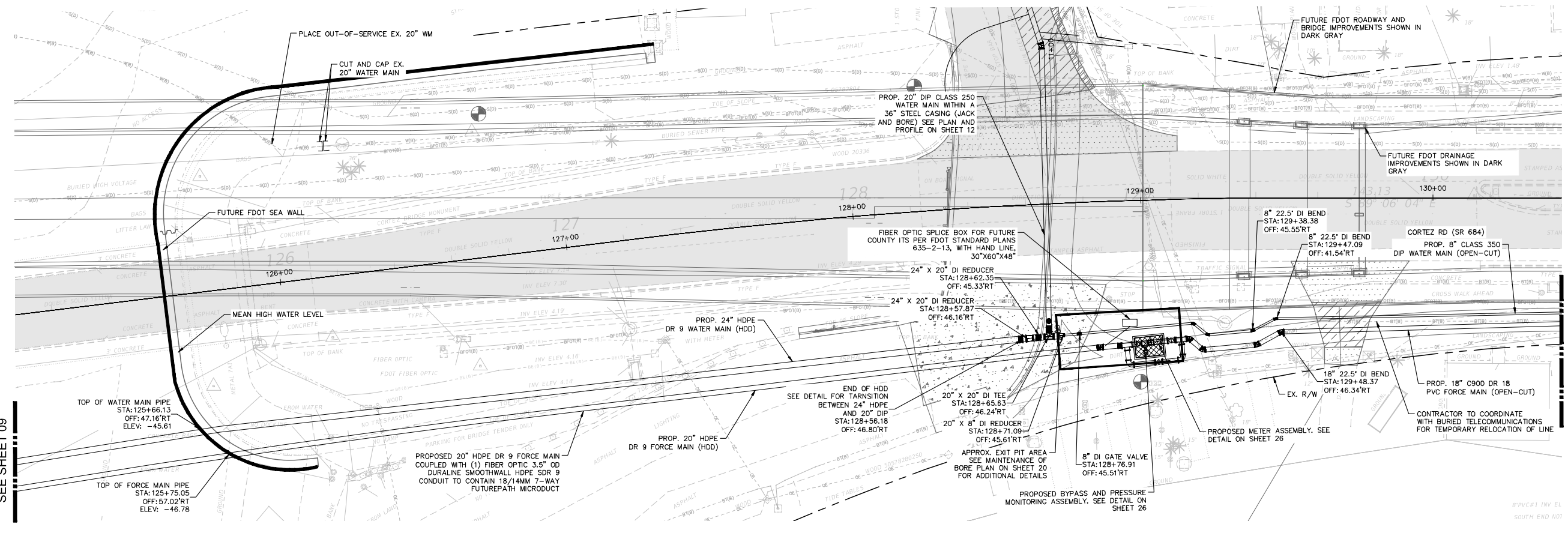
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GRAPHIC SCALE IN FEET
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 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 15'

MATCH LINE AT STA 125+00
SEE SHEET 09

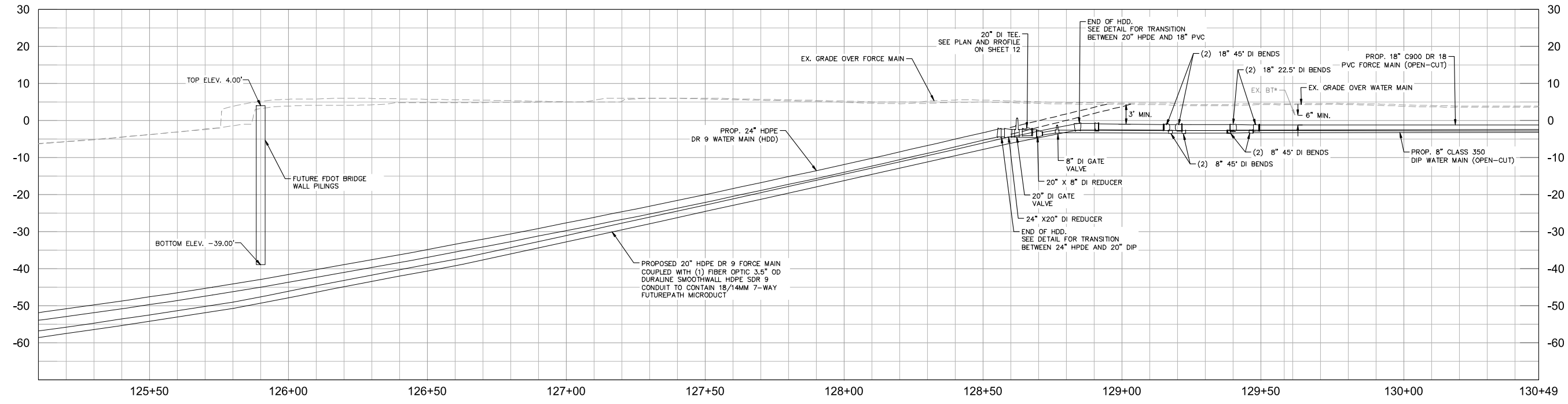
MATCH LINE AT STA 130+50
SEE SHEET 11



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Manatee County

SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING

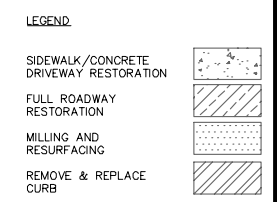
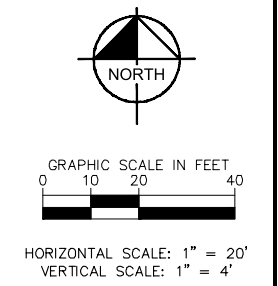
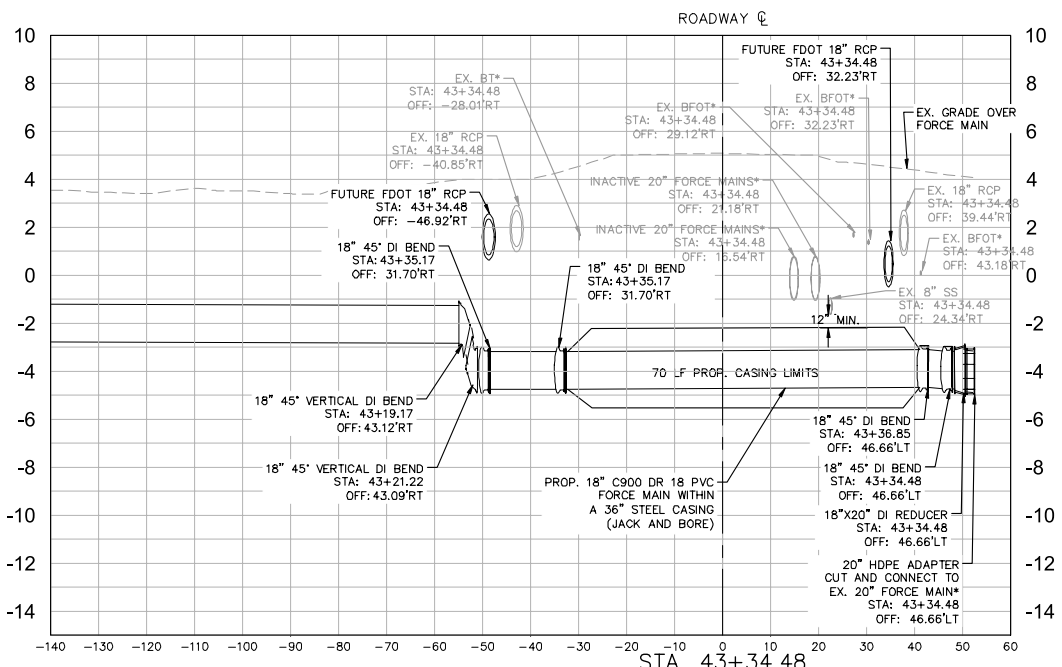
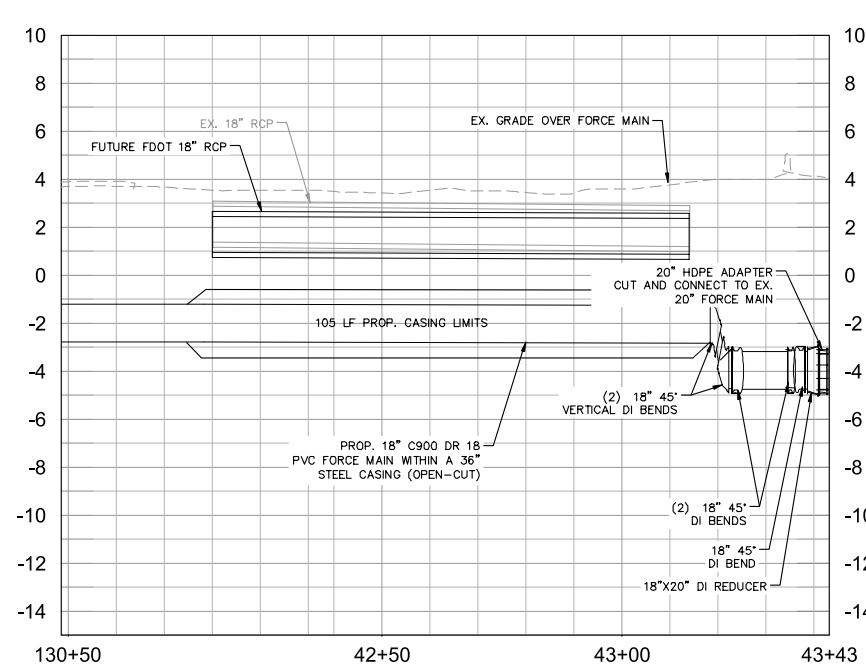
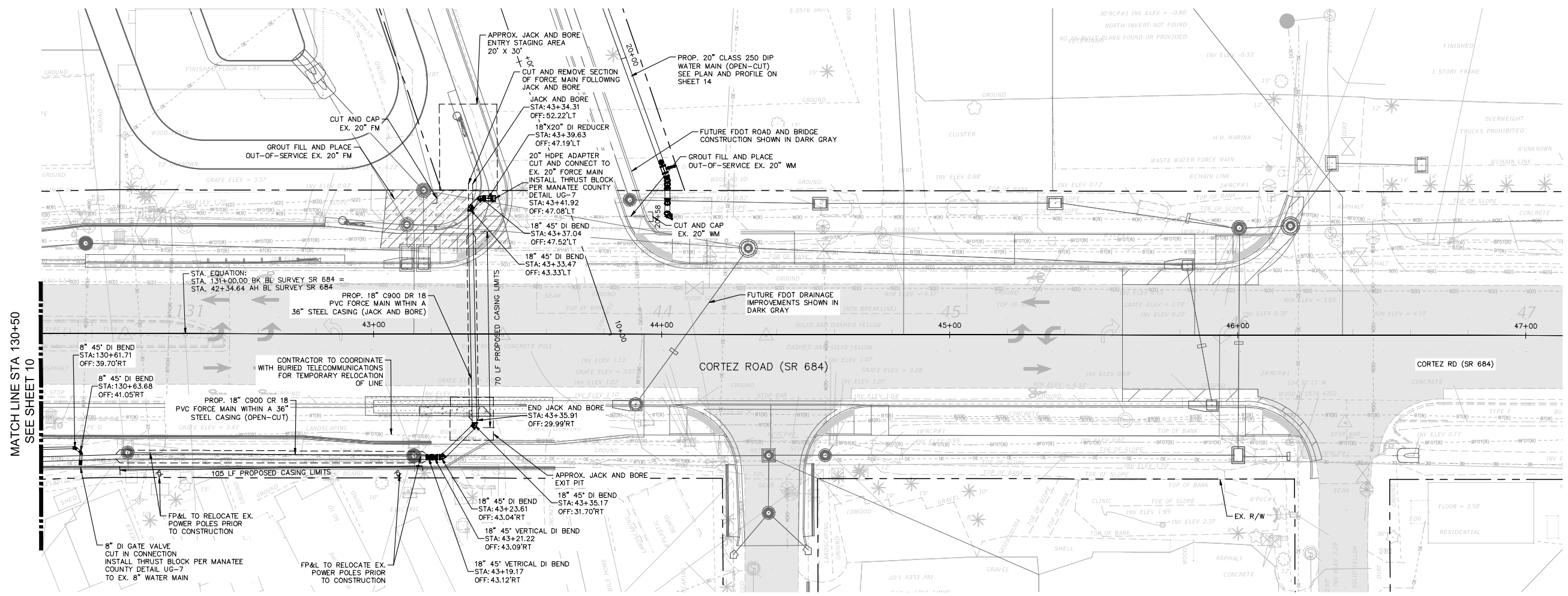
MANATEE COUNTY

LICENSED PROFESSIONAL
 JORDAN W. WALKER, P.E.
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 Dan Rose 10
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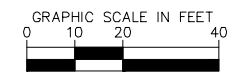
Kimley-Horn
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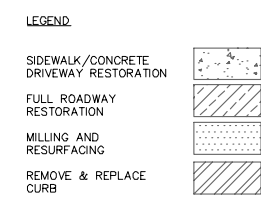
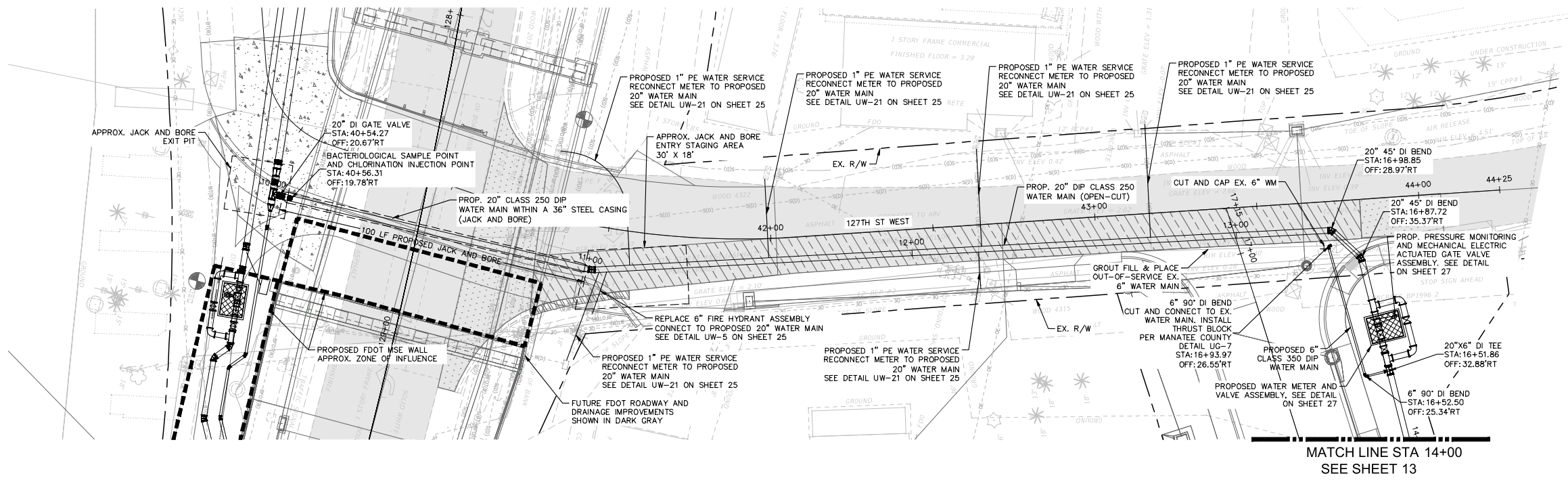
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FL LICENSE NUMBER	78652
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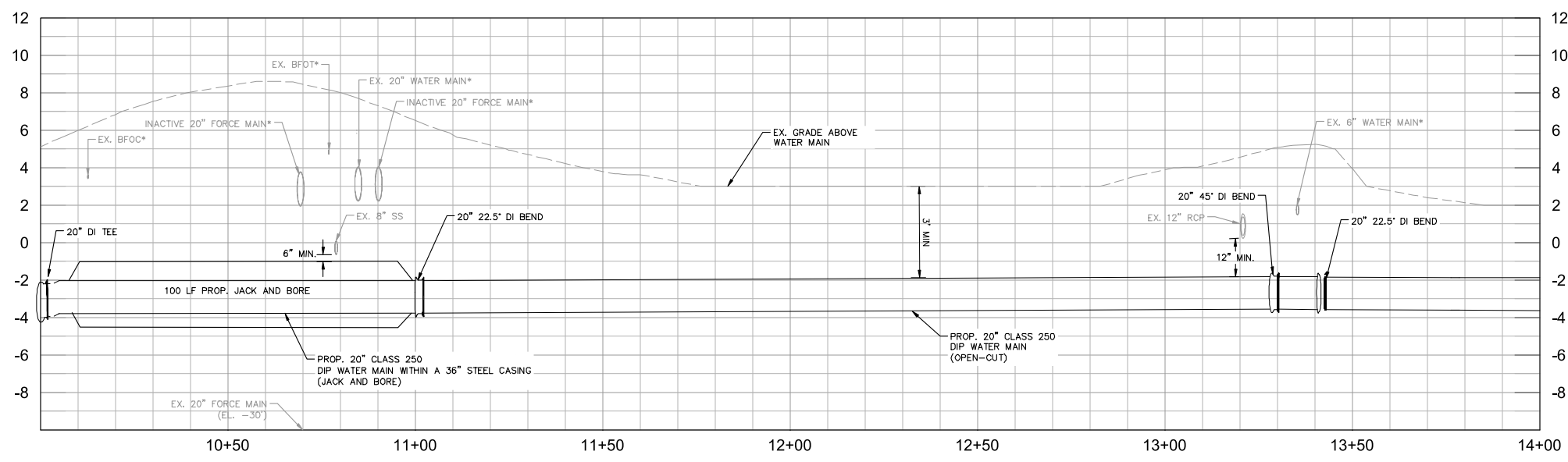
Approved SHEET NUMBER
 2023-H-194-00154
 Dan Rose 11
 10/4/2023



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



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200 CENTRAL AVENUE, SUITE 600, ST. PETERSBURG, FL 33701
PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

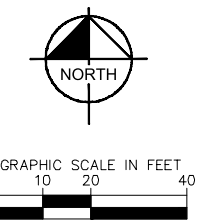
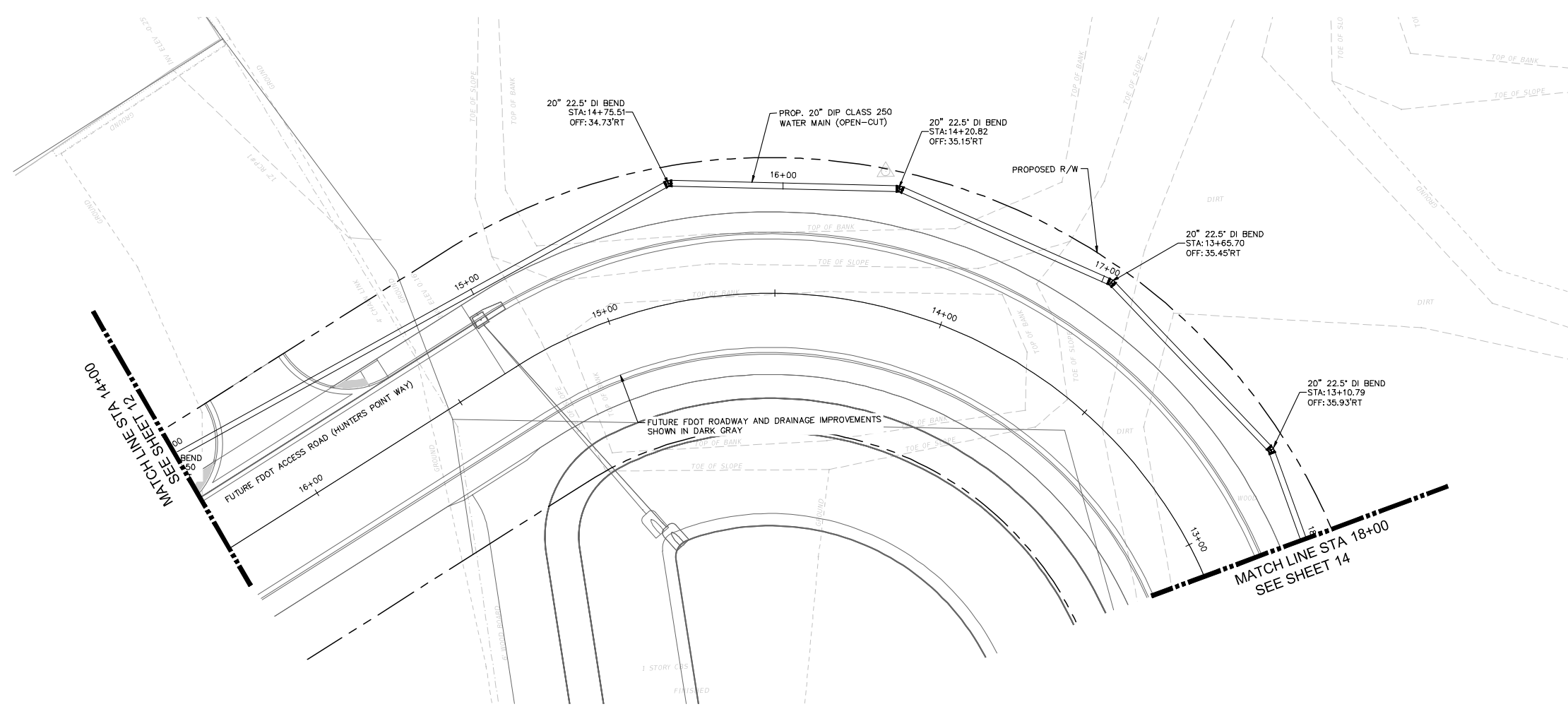
KHA PROJECT 148400081
DATE SEPTEMBER 2023
SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY SLB
CHECKED BY KMS

Manatee County
SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING
MANATEE COUNTY

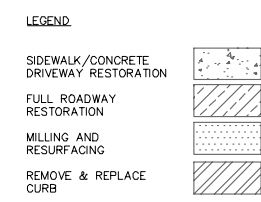
LICENSED PROFESSIONAL JORDAN W. WALKER, P.E. FL LICENSE NUMBER 78652

APPROVED
2023-H-194-00154
Dan Rose
10/4/2023
SHEET NUMBER
12

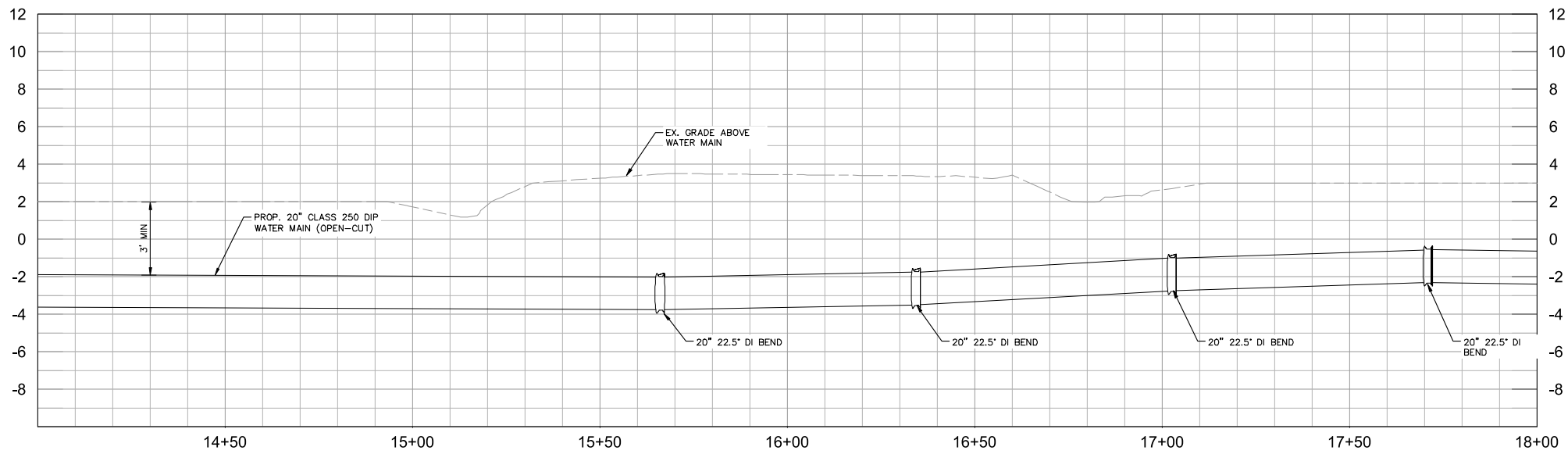
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KHA PROJECT 148400081
DATE SEPTEMBER 2023
SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY SLB
CHECKED BY KMS

Manatee County
SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING
MANATEE COUNTY

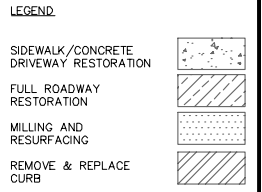
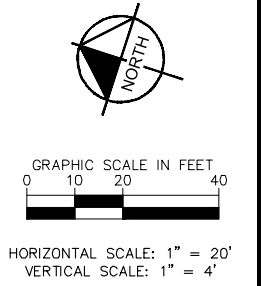
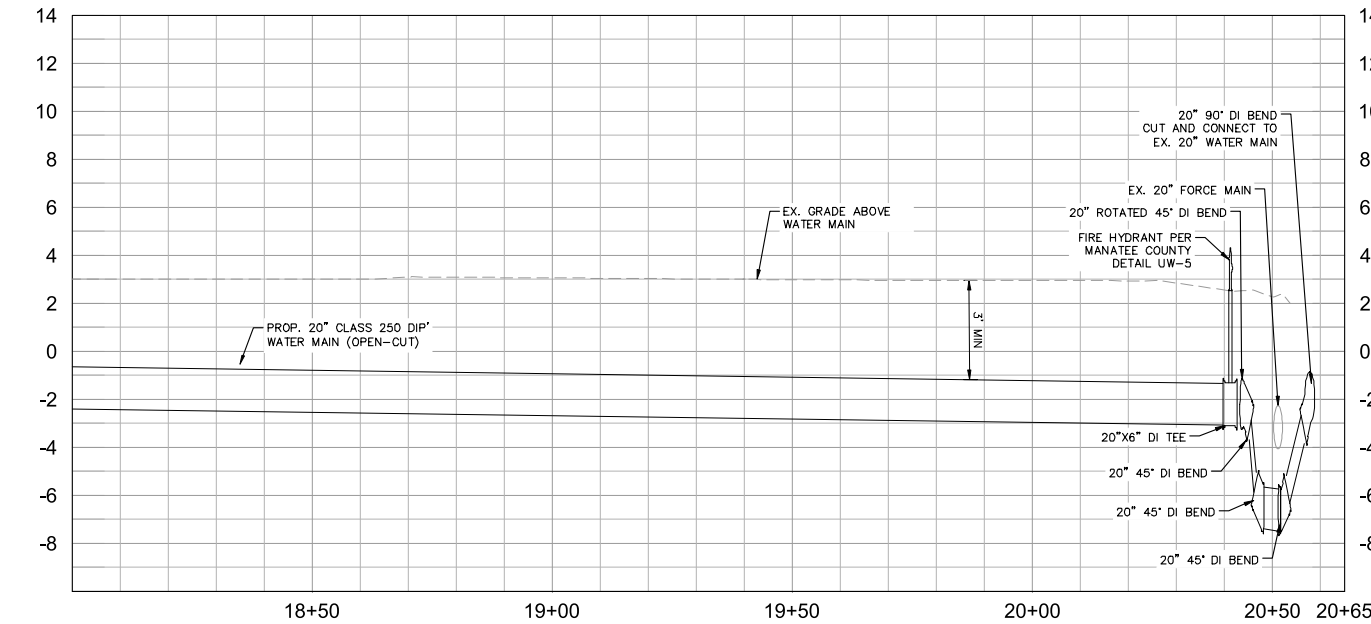
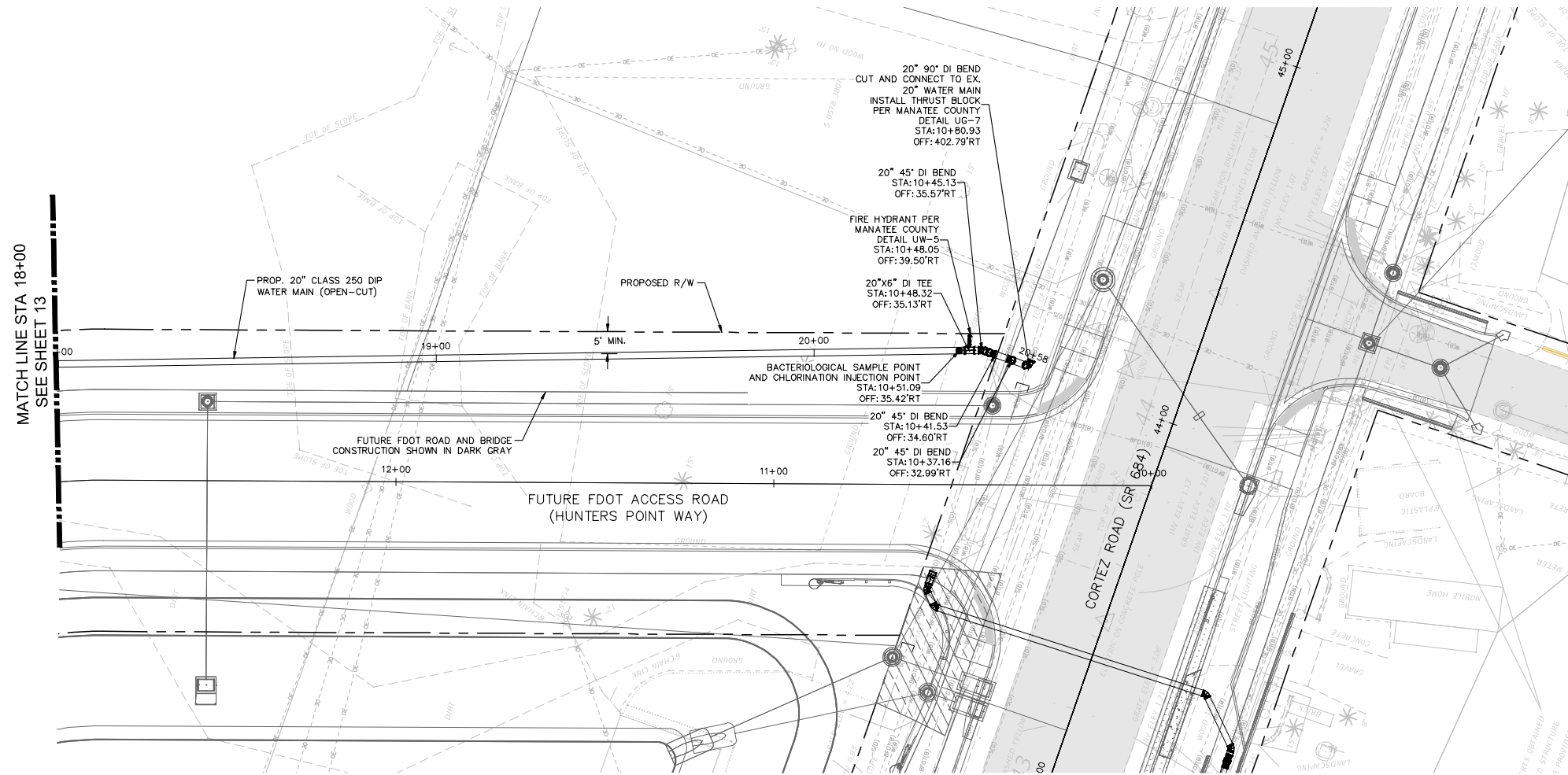
LICENSED PROFESSIONAL
JORDAN W. WALKER, P.E.
FL LICENSE NUMBER
78652
FL DATE:

EAST APPROACH

Approved
2023-H-194-00154
Dan Rose
10/4/2023

SHEET NUMBER
13

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KHA PROJECT	148400081
DATE	SEPTEMBER 2023
SCALE	AS SHOWN
DESIGNED BY	JWW
DRAWN BY	SLB
CHECKED BY	KMS

Manatee County

SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING

MANATEE COUNTY

LICENSED PROFESSIONAL

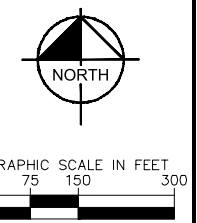
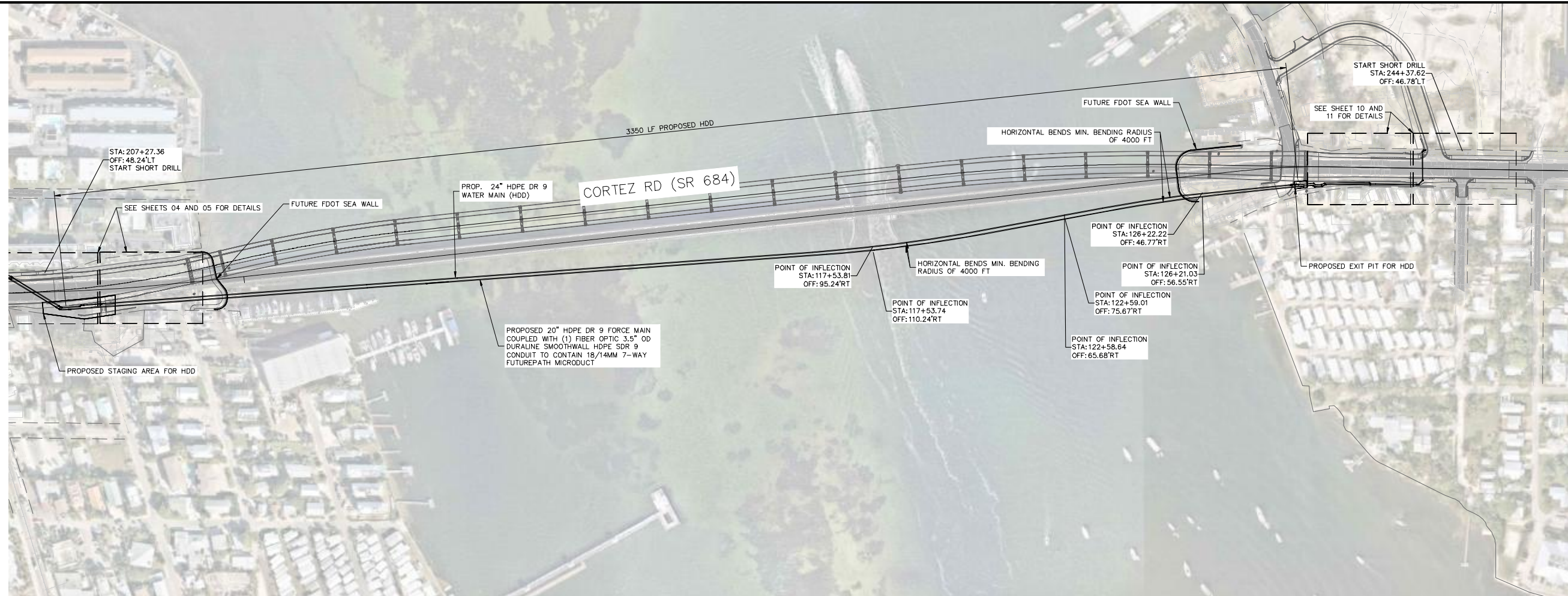
JORDAN W. WALKER, P.E.

FL LICENSE NUMBER
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DATE:

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

LEGEND

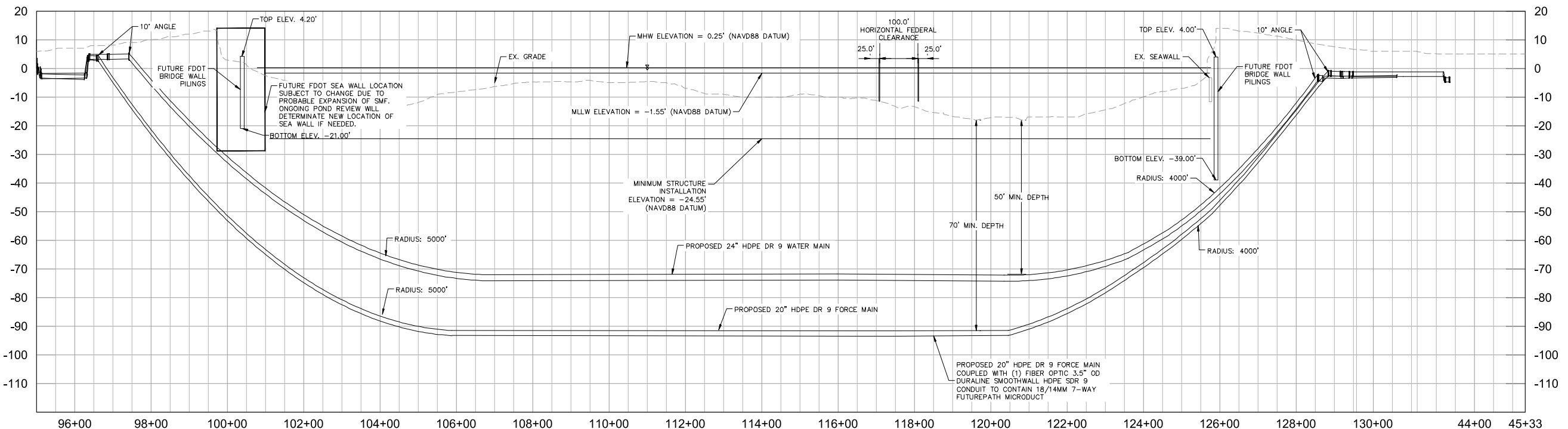
SIDEWALK/CONCRETE DRIVEWAY RESTORATION	
FULL ROADWAY RESTORATION	
MILLING AND RESURFACING	
REMOVE & REPLACE CURB	

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Manatee County FLORIDA

SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING

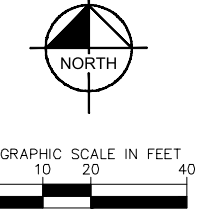
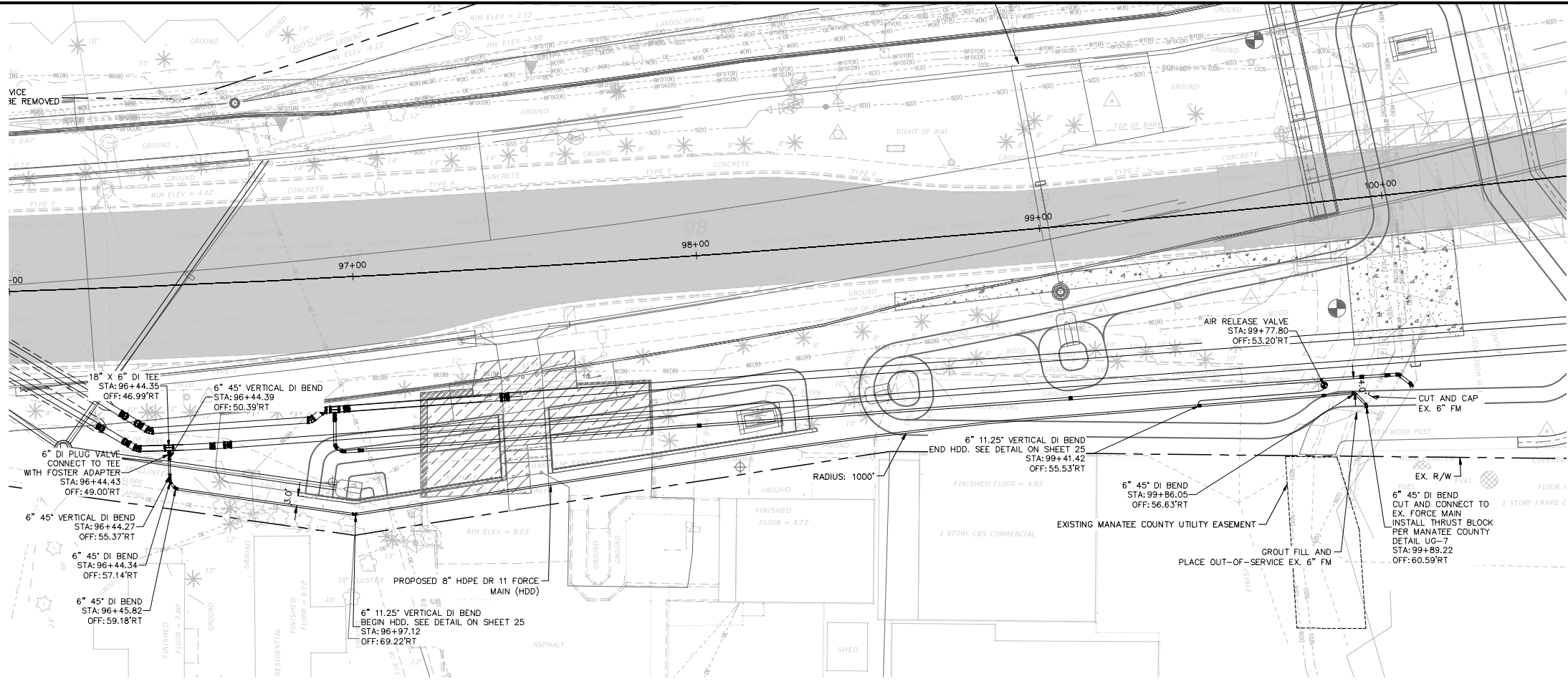
MANATEE COUNTY

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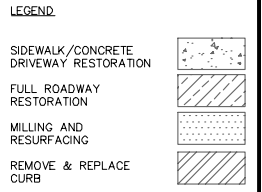
Approved SHEET NUMBER
2023-H-194-00154
Dan Rose 15
10/4/2023

OVERALL DRILL PLAN

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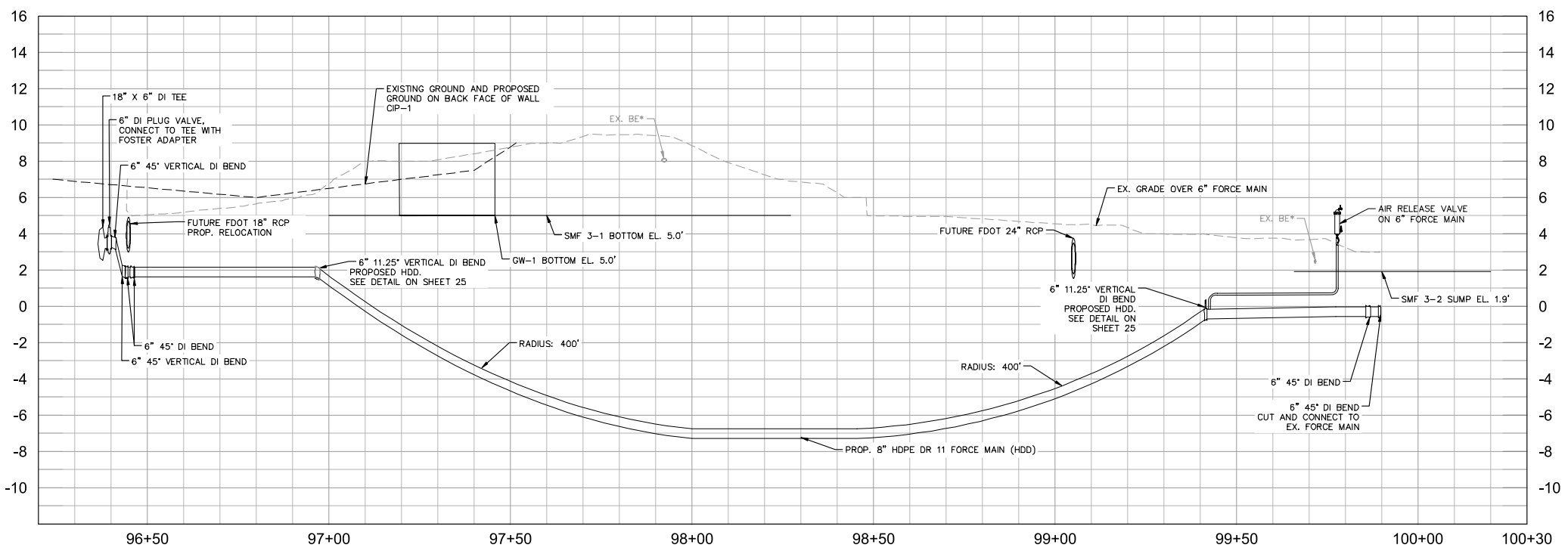
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Manatee County

SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING

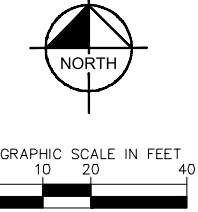
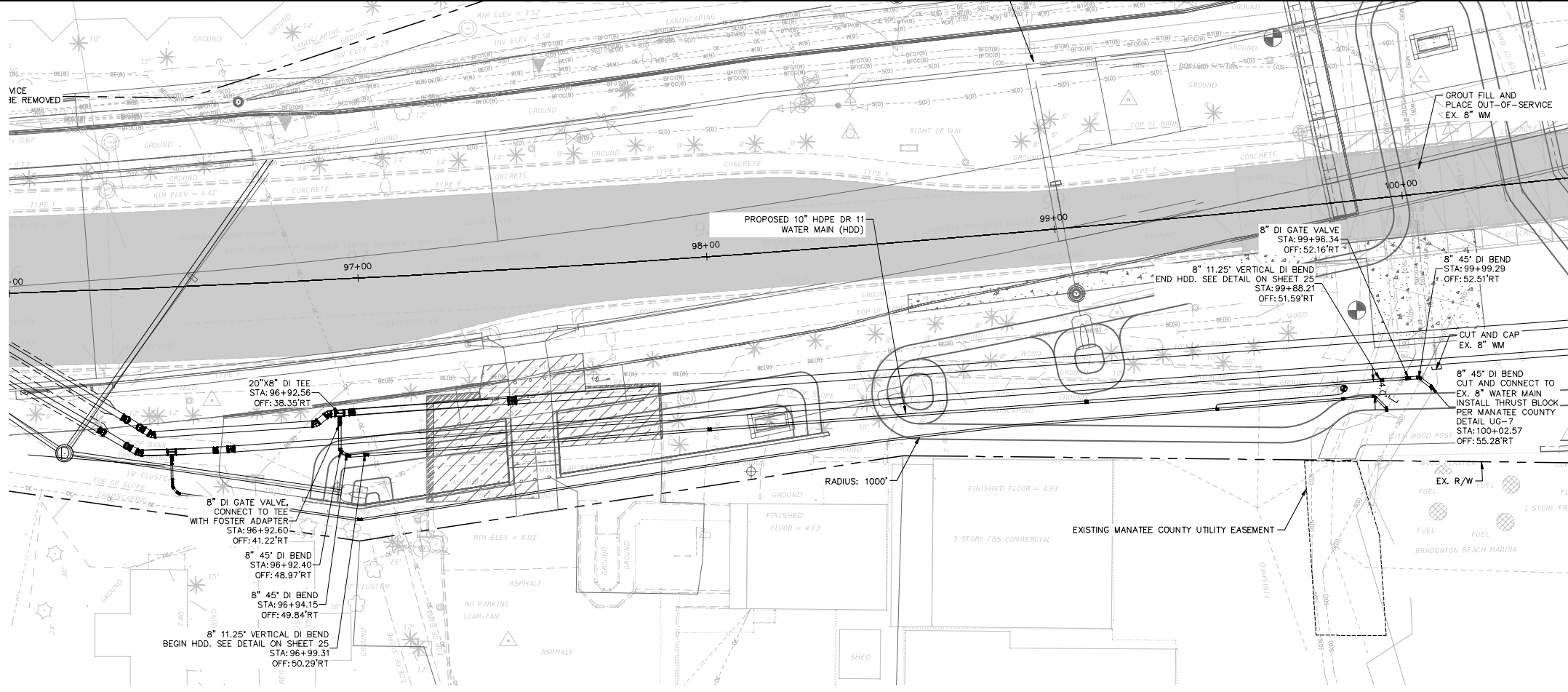
MANATEE COUNTY

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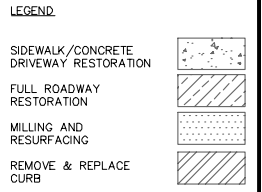
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FORCE MAIN RELOCATION

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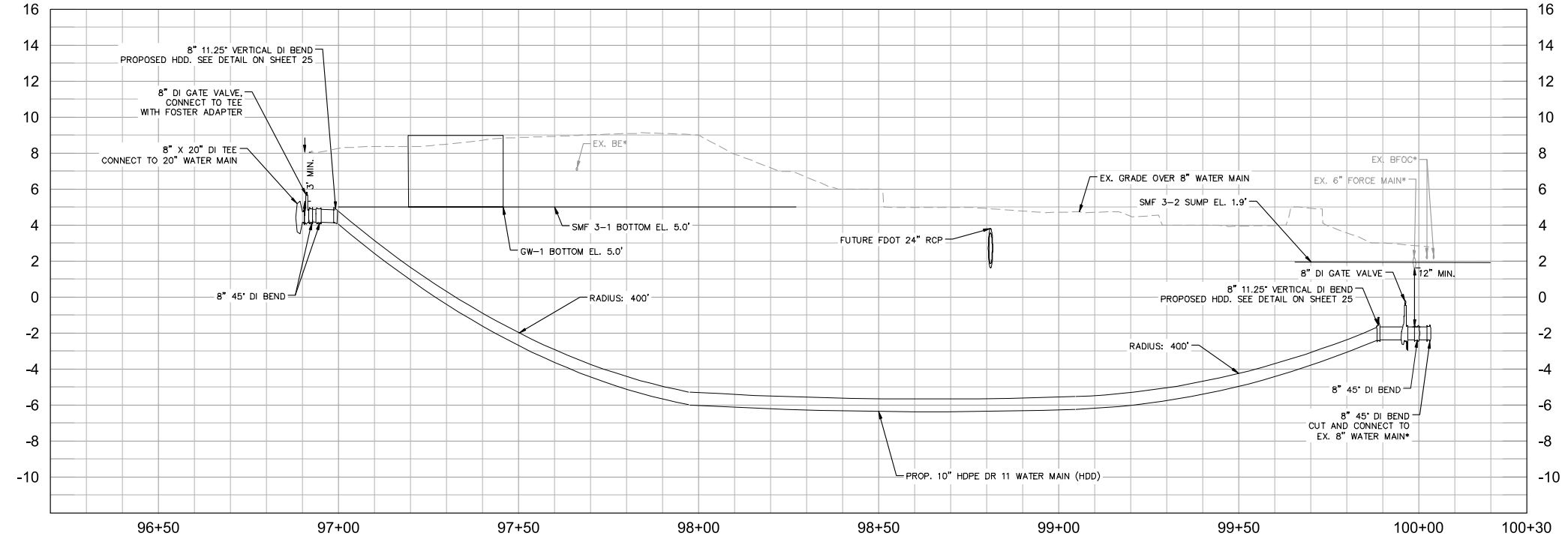


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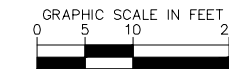
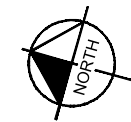
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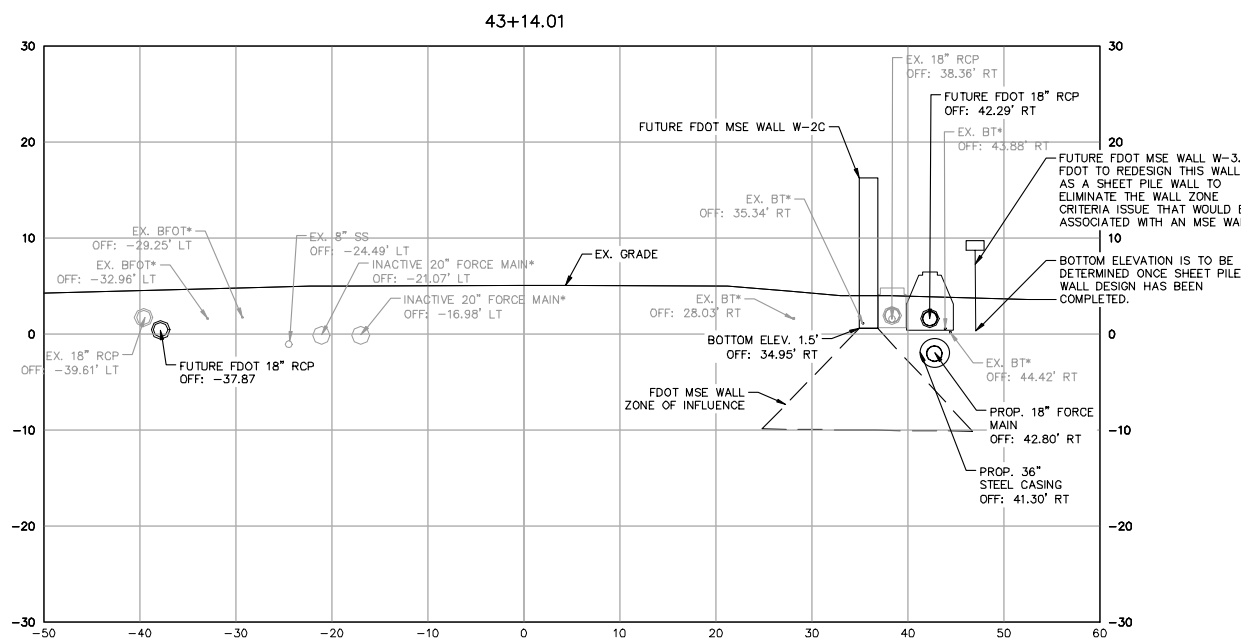
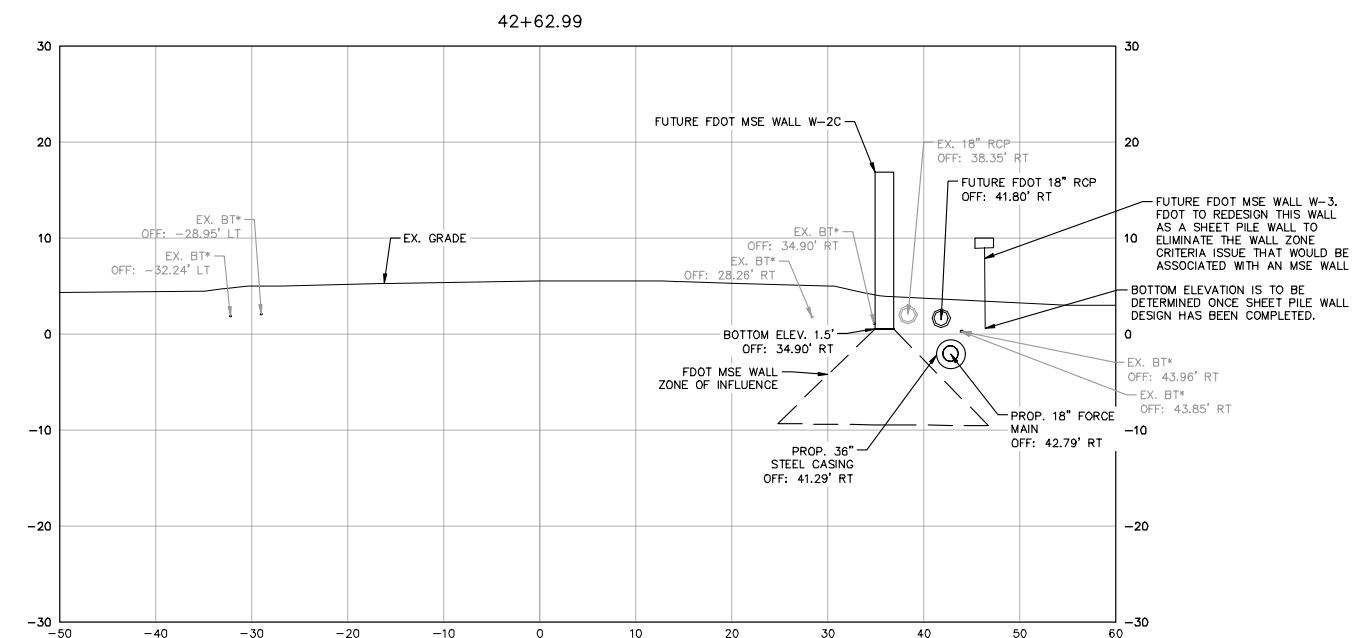
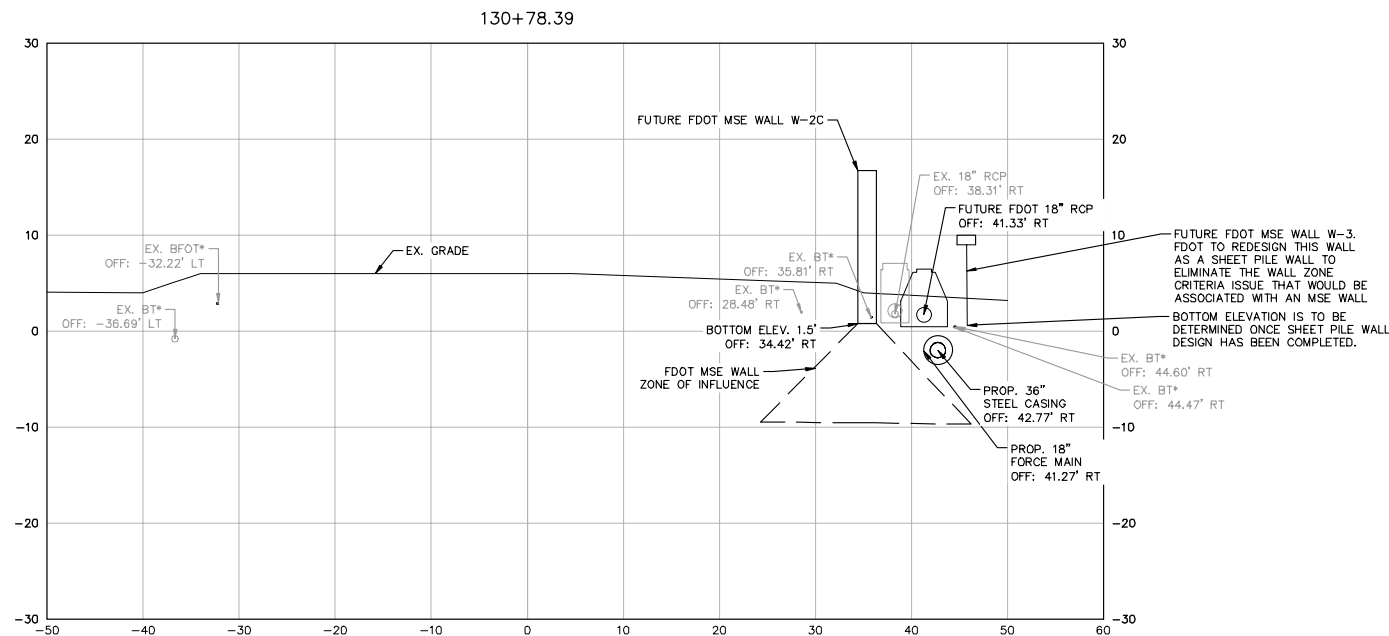
FL DATE:

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2023-H-194-00154
Dan Rose 17
10/4/2023

WATER MAIN RELOCATION



HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 10'



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NOTES:

1. CONTRACTOR SHALL RESTRAIN PIPE PER RESTRAIN LENGTHS TABLE ON DETAIL SHEET 24
2. CONSTRUCTION DEWATERING SHALL BE CONDUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO CHAPTERS 62-621.300 AND 62-620 OF THE FLORIDA ADMINISTRATIVE CODE (FAC)
3. EXISTING 2" GAS LINE AND BURIED ELECTRIC TO BE FIELD LOCATED WHERE NECESSARY PRIOR TO CONSTRUCTION
4. WHERE LESS THAN 6" MINIMUM SEPARATION IS SHOWN ALL JOINTS SHALL BE RESTRAINED IN ORDER TO MEET FDEP SEPARATION REQUIREMENTS.

GROUNDWATER / DEWATERING NOTE:

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR THIS ISSUE. WHEN PERFORMING GRADING OPERATIONS DURING PERIODS OF WET WEATHER, PROVIDE ADEQUATE DEWATERING, DRAINAGE AND GROUND WATER MANAGEMENT TO CONTROL MOISTURE OF SOILS.



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No.	REVISIONS	DATE	BY

Kimley-Horn

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PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT	148400081
DATE	SEPTEMBER 2023
SCALE	AS SHOWN
DESIGNED BY	JWW
DRAWN BY	SLB
CHECKED BY	KMS

Manatee County

SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING

MANATEE COUNTY

LICENSED PROFESSIONAL

JORDAN W. WALKER, P.E.

FL LICENSE NUMBER 78652

EAST APPROACH CORTEZ RD CROSS SECTIONS

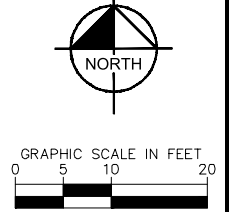
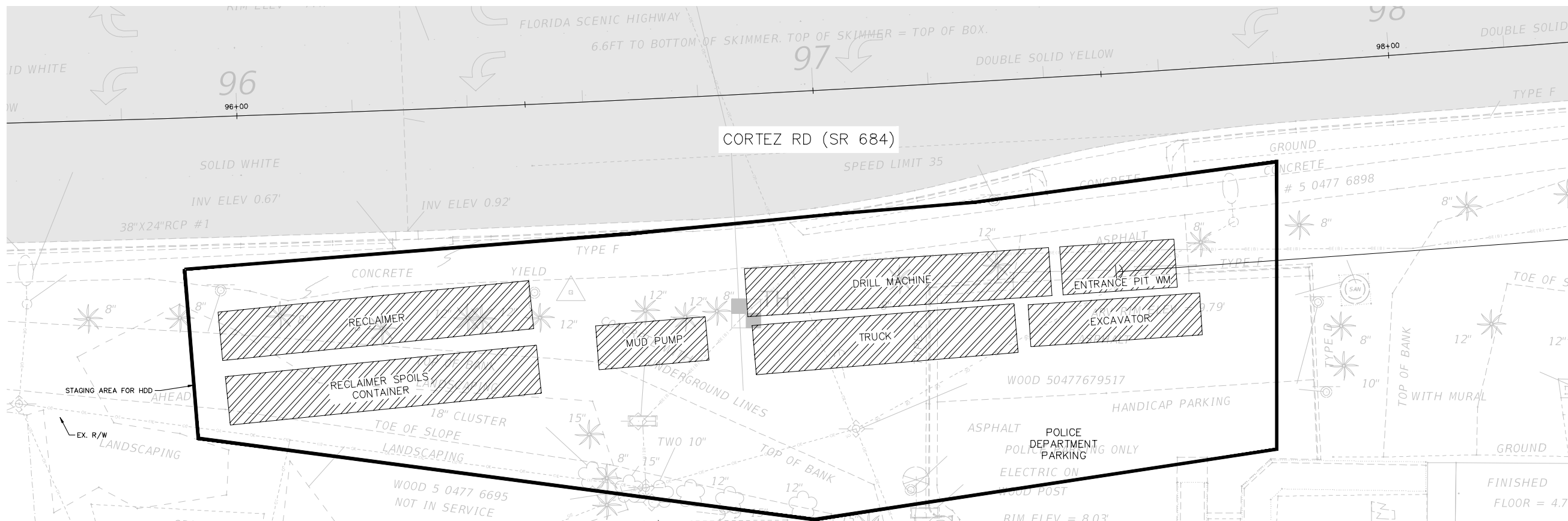
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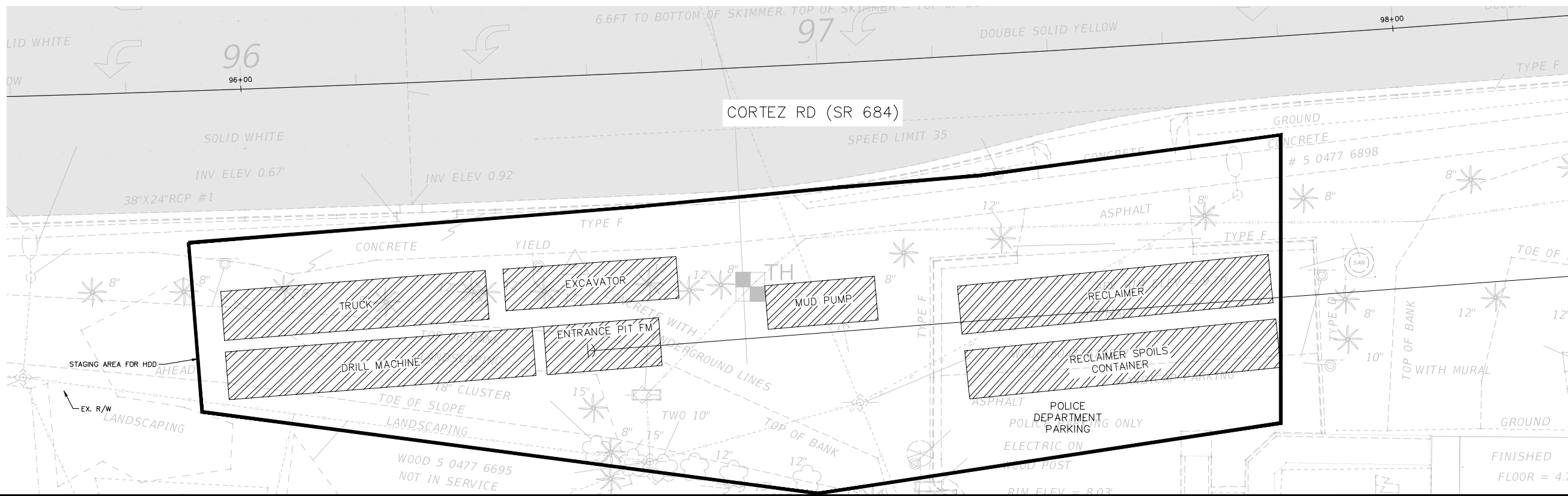
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MAINTENANCE OF DRILL PLAN FOR WATER MAIN – ENTRY



MAINTENANCE OF DRILL PLANS SHOWN ONLY AS AN APPROXIMATION FOR CONTRACTOR INFORMATION. THE CONTRACTOR SHALL SUBMIT THEIR OWN DIRECTIONAL DRILL PLAN PRIOR TO MOBILIZATION AND USE THEIR OWN MEANS AND METHODS FOR THE CONSTRUCTION OF THE PIPELINES.

MAINTENANCE OF DRILL PLAN FOR FORCE MAIN – ENTRY



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KHA PROJECT 148400081
DATE SEPTEMBER 2023
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Manatee County FLORIDA
 SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING
 MANATEE COUNTY

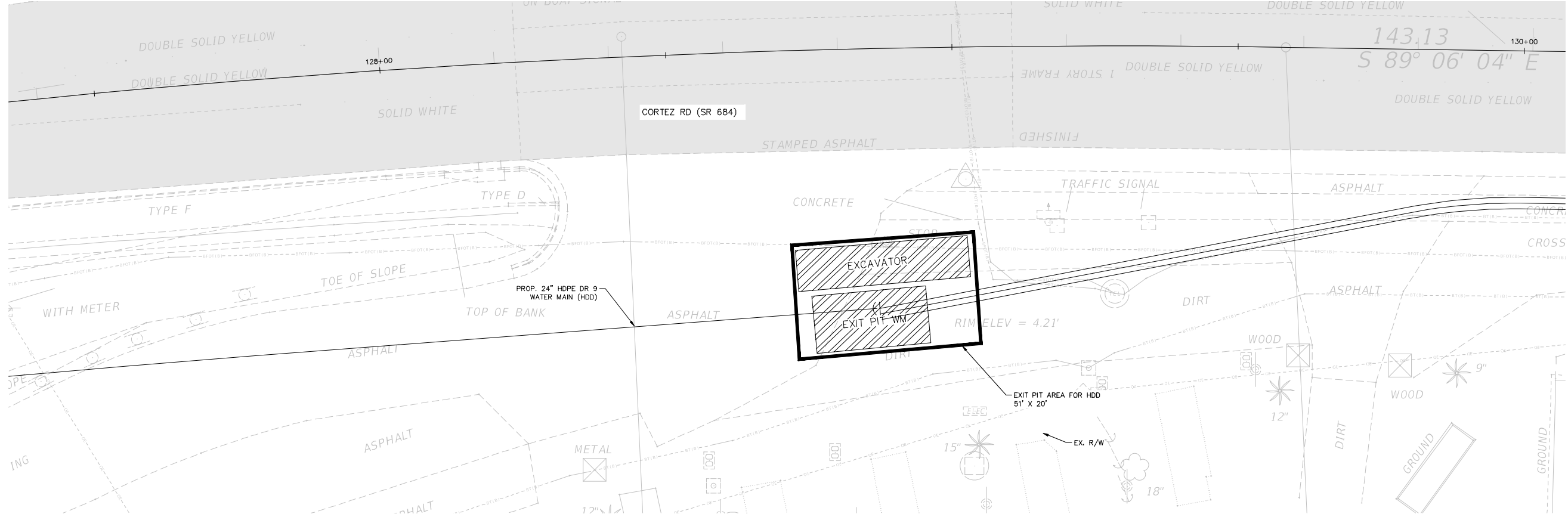
LICENSED PROFESSIONAL JORDAN W. WALKER, P.E. FL LICENSE NUMBER 78652

MAINTENANCE OF DRILL PLAN - WEST APPROACH

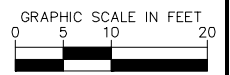
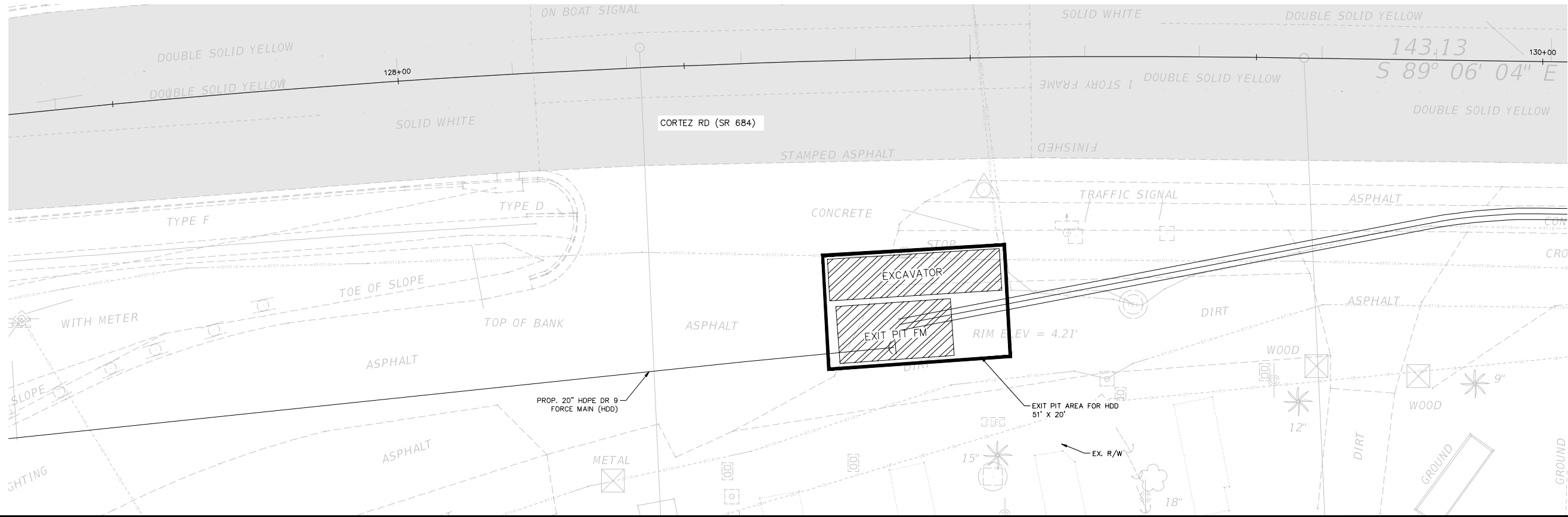
Approved: **Dan Rose**
 SHEET NUMBER: **19**
 DATE: **10/4/2023**

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MAINTENANCE OF DRILL PLAN FOR WATER MAIN – EXIT



MAINTENANCE OF DRILL PLAN FOR FORCE MAIN – EXIT



MAINTENANCE OF DRILL PLANS SHOWN ONLY AS AN APPROXIMATION FOR CONTRACTOR INFORMATION. THE CONTRACTOR SHALL SUBMIT THEIR OWN DIRECTIONAL DRILL PLAN PRIOR TO MOBILIZATION AND USE THEIR OWN MEANS AND METHODS FOR THE CONSTRUCTION OF THE PIPELINES.

GROUNDWATER / DEWATERING NOTE:
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DATE SEPTEMBER 2023
SCALE AS SHOWN
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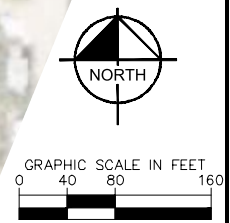
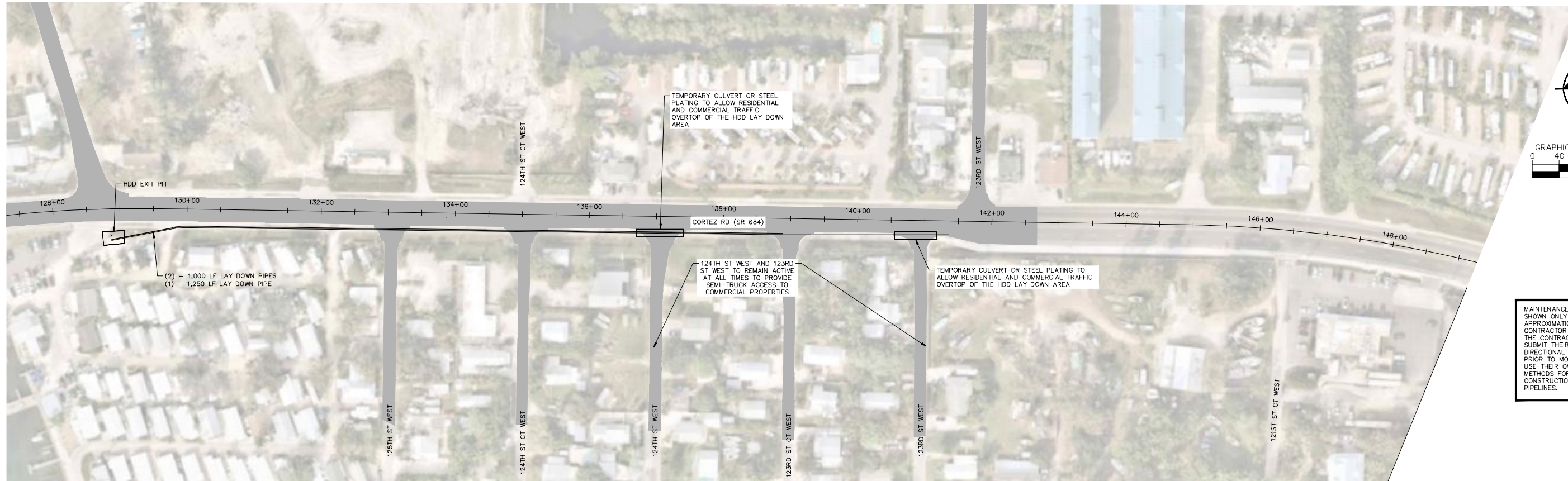
Manatee County FLORIDA
SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING
MANATEE COUNTY

LICENSED PROFESSIONAL
JORDAN W. WALKER, P.E.
FL LICENSE NUMBER
78652
DATE:

MAINTENANCE OF DRILL PLAN - EAST APPROACH

Approved
2023-11-19
194-00154
Dan Rose
10/4/2023
SHEET NUMBER
20

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 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT 148400081
DATE SEPTEMBER 2023
SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY SLB
CHECKED BY KMS

Manatee County FLORIDA
 SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING
 MANATEE COUNTY

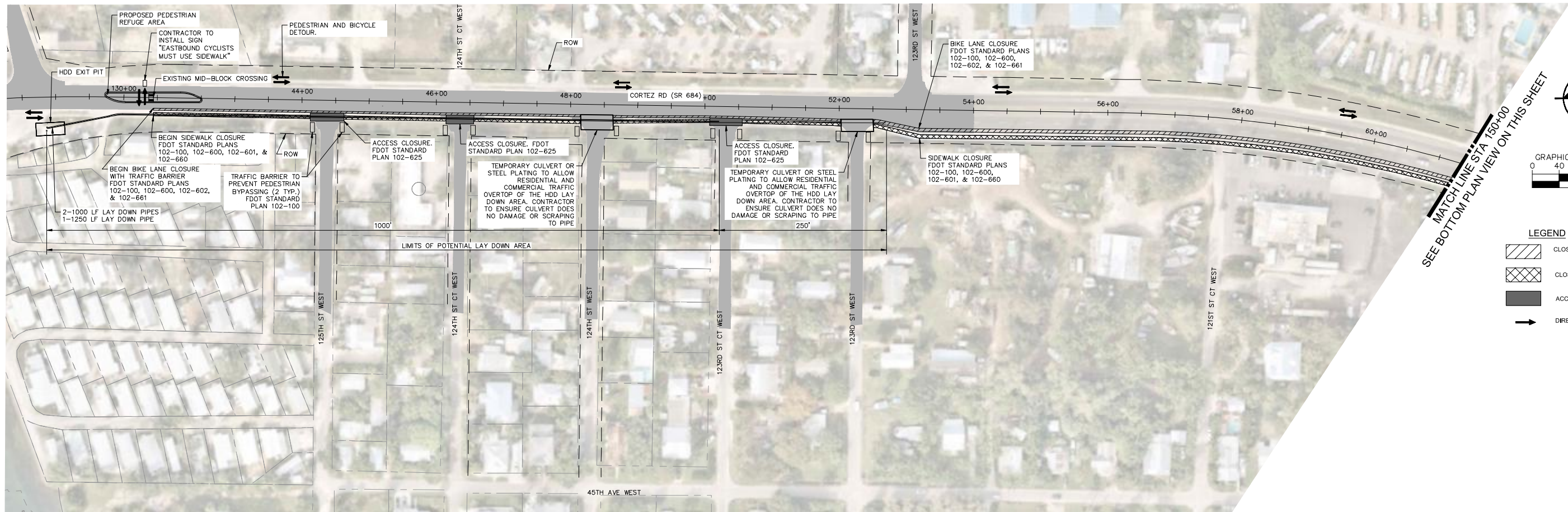
LICENSED PROFESSIONAL
 JORDAN W. WALKER, P.E.
 FL LICENSE NUMBER
 78652

MAINTENANCE OF DRILL PLAN - LAY DOWN AREA

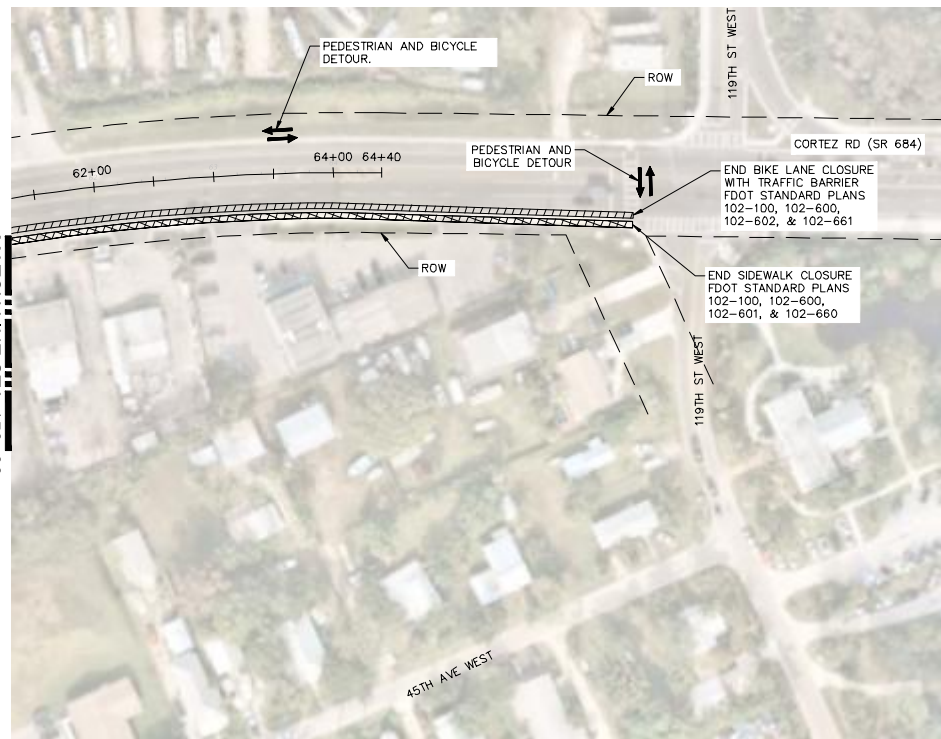
Approved: **Dan Rose**
 10/4/2023

SHEET NUMBER
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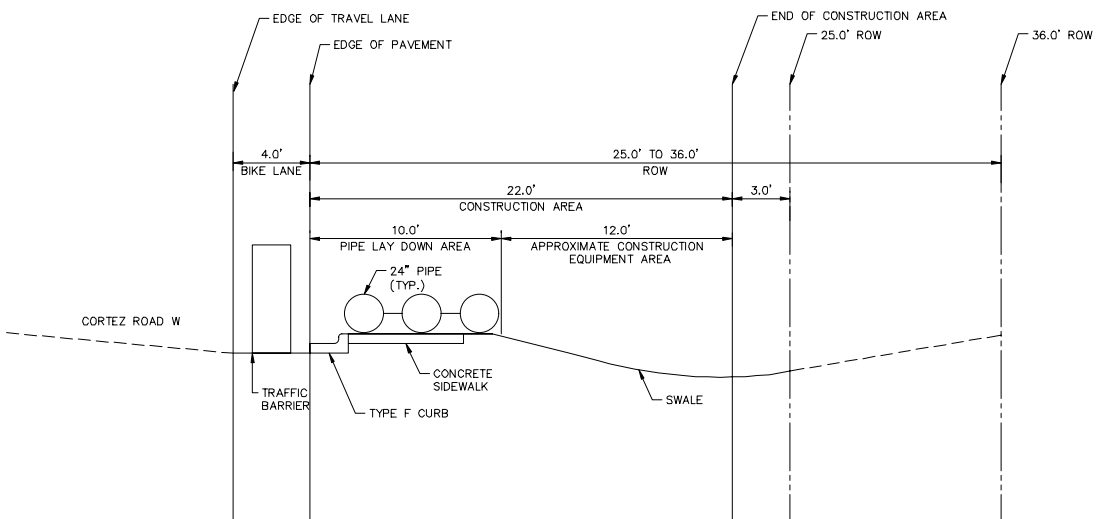
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MATCH LINE STA 150+00
SEE BOTTOM PLAN VIEW ON THIS SHEET



MATCH LINE STA 150+00
SEE TOP PLAN VIEW ON THIS SHEET



TYPICAL SECTION OF PIPE LAY DOWN AREA
1"=5'

GROUNDWATER / DEWATERING NOTE:
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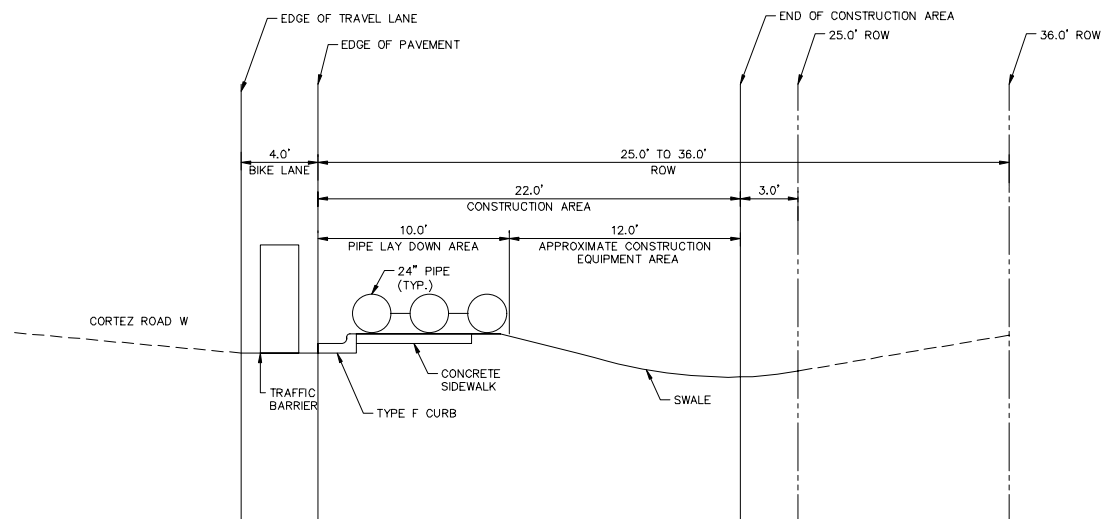
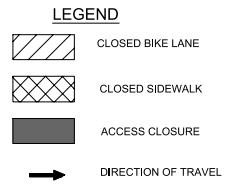
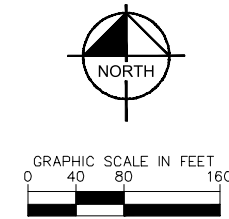
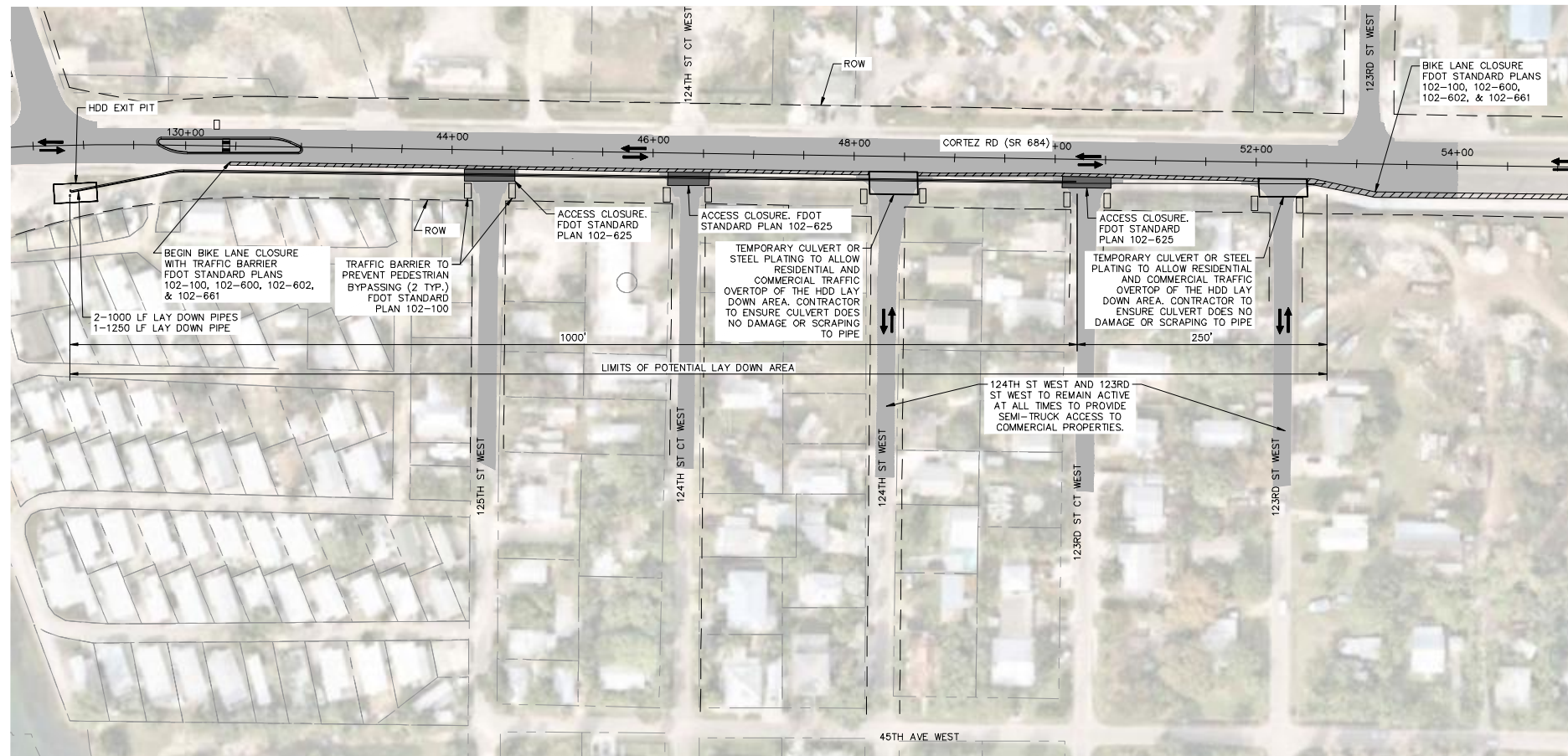
KHA PROJECT	148400081
DATE	MAY 2023
SCALE	AS SHOWN
DESIGNED BY	JWW
DRAWN BY	SLB
CHECKED BY	KMS

Manatee County FLORIDA
SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING
MANATEE COUNTY

LICENSED PROFESSIONAL
GEORGE E. ROLAND, P.E.
FL LICENSE NUMBER
62338
FL DATE:

MAINTENANCE OF TRAFFIC / PEDESTRIAN / BICYCLE
APPROVED: 2023-04-194-00154
Dan Rose
10/4/2023
SHEET NUMBER
22

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TYPICAL SECTION OF PIPE LAY DOWN AREA
1"=5'

GROUNDWATER / DEWATERING NOTE:
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Kimley»Horn

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PHONE: 727-547-3999
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT 148400081
DATE MAY 2023
SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY SLB
CHECKED BY KMS

SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING

MANATEE COUNTY

LICENSED PROFESSIONAL
GEORGE E. ROLAND, P.E.
FL LICENSE NUMBER 62338
DATE:

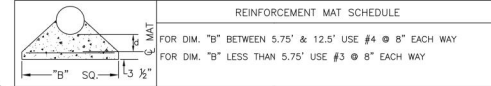
MAINTENANCE OF TRAFFIC - VEHICLE

Approved: **Dan Rose**
10/4/2023

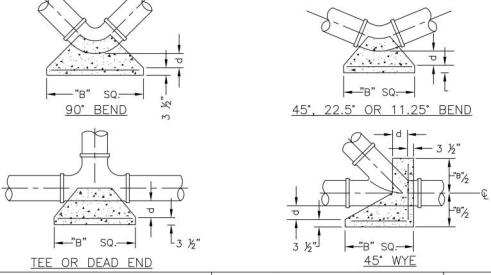
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PIPE SIZE (IN.)	THRUST BLOCK DIMENSIONS B ft. x d inches											
	90° BEND		45° BEND		22.5° BEND		11.25° BEND		DEAD END & TEE		45° WYE	
	B	d	B	d	B	d	B	d	B	d	B	d
4	1.5	3 1/2	1.1	3 1/2	0.8	3 1/2	0.6	3 1/2	1.3	3 1/2	1.1	3 1/2
6	2.2	5 1/2	1.6	3 3/4	1.2	3 3/4	0.8	3 3/4	1.9	4 1/2	1.6	3 3/4
8	2.9	7	2.1	5	1.5	3 1/2	1.1	3 1/2	2.4	5 1/2	2.0	4 3/4
10	3.5	8 1/2	2.6	6 1/4	1.9	4 1/2	1.3	3 1/2	3.0	7 1/2	2.5	6
12	4.2	10	3.1	7 1/2	2.2	5 1/4	1.6	3 3/4	3.5	8 1/4	3.0	7 1/4
14	4.9	11 3/4	3.6	8 3/4	2.6	6 1/4	1.8	4 1/4	4.1	9 3/4	3.4	8 1/4
16	5.5	13 1/4	4.1	9 3/4	2.9	7	2.1	5	4.7	11 1/4	3.9	9 1/4
18	6.2	15	4.6	11	3.3	8	2.3	5 1/2	5.2	12 1/2	4.4	10 1/2
20	6.9	16 1/2	5.0	12	3.6	8 3/4	2.6	6 1/4	5.8	14	4.9	11 3/4
24	8.2	19 1/4	6.0	14 1/2	4.3	10 1/2	3.1	7 1/2	6.9	16 1/2	5.8	14
30	10.1	24 1/4	7.5	18	5.3	12 3/4	3.8	9	8.5	20 1/2	7.2	17 1/4
36	12.1	29	8.9	21 1/4	6.4	15 1/4	4.5	10 3/4	10.2	24 1/2	8.6	20 3/4

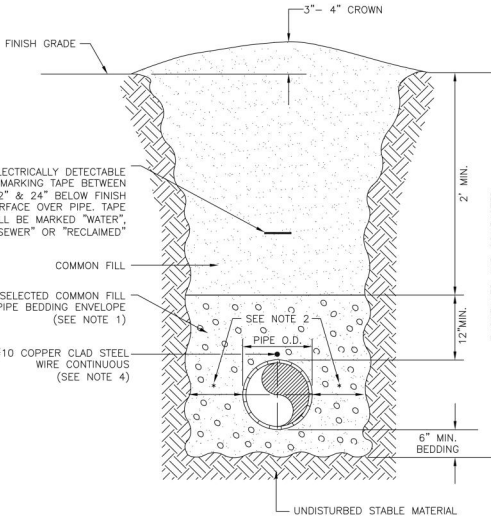


- NOTES:
- ALL THRUST BLOCKS SHALL BE CAST IN PLACE. FITTINGS ADJACENT TO THRUST BLOCKS SHALL BE WRAPPED IN POLYETHYLENE.
 - THIS TABLE IS BASED ON WATER PRESSURE=180 PSI WITH AN ALLOWABLE SOIL BEARING PRESSURE=2000 PSF. CONCRETE STRENGTH f_c =3000 PSI, REINFORCEMENT f_y =60,000 KSI. THRUST BLOCK SHALL BE CAST AGAINST FIRM UNDISTURBED SOIL.
 - FOR LARGER "b" DIMENSIONS IT IS NECESSARY TO CHECK THAT PIPE IS SUFFICIENTLY DEEP TO ALLOW 15" MIN. SOIL COVER OVER TOP EDGE OF THRUST BLOCK.
 - RESTRAINED JOINTS MAY BE USED IN LIEU OF THRUST BLOCKS TO SAVE SPACE. HOWEVER, WHERE THRUST BLOCKS AND RESTRAINED JOINTS ARE CALLED OUT/ILLUSTRATED IN THE DETAILS, BOTH SHALL BE INSTALLED.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		CONCRETE THRUST BLOCKS	UG-7
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

- NOTES:
- USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
 - PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH UNIMPROVED SURFACE TYPE A-1 PIPE BEDDING	UG-11
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

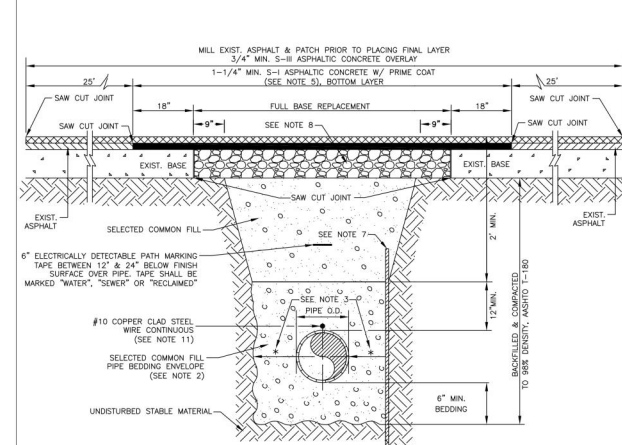
REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR C900-16 PVC PIPE (DR-18)

MAIN PIPE SIZE	HORIZ. BENDS	TEES		REDUCERS		PLUGS & VALVES
		SIZE	LENGTH	SIZE	LENGTH	
4	90°	45°	22.5°			
24	90°	38	18	X24	X20	214
20	78	32	16	X20	X16	184
16	66	27	13	X16	X12	151
12	52	22	10	X12	X8	118
10	44	18	9	X10	X8	100
8	37	15	7	X8	X6	83
6	29	12	6	X6	X4	63
4	21	8	4	X4	X3	45

- NOTES:
- RESTRAIN 11.25° BENDS 50% OF LENGTH FOR 22.5° BENDS.
 - ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.
 - ALL ISOLATION VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI TEST PRESSURE IN EITHER DIRECTION.
 - PIPE SIZES ARE GIVEN IN INCHES.
 - RESTRAINED PIPE LENGTHS ARE GIVEN IN FEET.
 - LENGTHS SHOWN ARE FOR A TEST PRESSURE OF 180 PSI.
 - THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON SOIL CLASSIFICATION SP WITH AWWA TYPE 3 TRENCH CONDITIONS, 180 PSI TEST PRESSURE, 3 FEET OF COVER AND 1.5 FACTOR OF SAFETY. ACTUAL BURY CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY.
 - RESTRAINED LENGTHS TO BE APPLIED TO PIPELINES PER DETAIL UG-10 RESTRAINED LENGTHS FOR PIPE.
 - ALL RESTRAINED JOINT HARDWARE SHALL CONFORM TO 1.11.17 OF THE PUBLIC WORKS UTILITIES STANDARDS MANUAL.
 - ALL THREE "LEGS" OF TEES SHALL BE RESTRAINED PER THE STATED LENGTH IN THE TABLE.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		RESTRAINED LENGTHS FOR PVC PIPE	UG-8
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

- NOTES:
- BITUMINOUS PAVEMENT SHALL BE REMOVED IN CLEAN STRAIGHT LINES BY SAW CUTTING. WHERE BITUMINOUS PAVEMENT ADJACENT TO A TRENCH, THE EDGES ADJACENT TO THE TRENCH SHALL BE TRIMMED TO A NEAT STRAIGHT LINE BEFORE RESURFACING TO ENSURE THAT ALL AREAS TO BE RESURFACED ARE ACCESSIBLE TO ROLLERS OR TAMPERS USED TO COMPACT THE SUB-GRADE OR PAVING MATERIALS.
 - USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
 - PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - ASPHALTIC CONCRETE STRUCTURE COURSE WITH PRIME COAT SHALL BE THE SAME DEPTH AND TYPE AS EXISTING OR A MINIMUM OF 1-1/4 INCH 5-1, WHICHEVER IS GREATER.
 - MILL 25' BACK FROM TRENCH CROSSING SAW CUTS. ADJUST MILLING PER INDIVIDUAL SITE TO NOT IMPACT BASE. BUTT JOINT TO EXIST ASPHALT. FINAL OVERLAY TO MATCH EXISTING WITH NO DISCERNABLE "BUMP" AT JOINT. MILLING LIMITS THAT IMPACT INTERSECTION SHALL BE ADDRESSED ON A CASE BY CASE BASIS AND APPROVED BY MANATEE COUNTY.
 - SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
 - NEW BASE SHALL MATCH EXISTING; OR BE CRUSHED CONCRETE, 8" MIN. THICKNESS, LBR ≥150, WHICHEVER IS GREATER.
 - TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
 - RESTORE SIGNAGE & MARKING WITH THERMOPLASTIC PER FDOT STANDARDS, LATEST EDITION.
 - TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.
 - NOTES 5, 7 THRU 10, ARE MINIMUM REQUIREMENTS FOR A TRENCH IN A LOCAL ROAD. REFER TO LATEST EDITION OF MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING (CROSSING)	UG-12
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

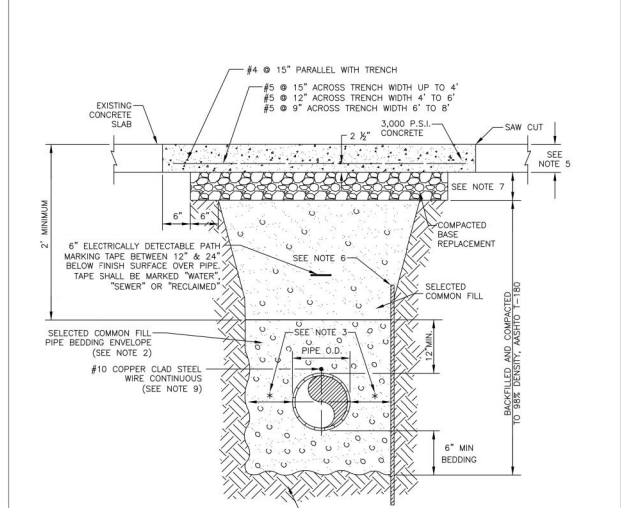
REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DIP (POLY-WRAPPED)

MAIN PIPE SIZE	HORIZ. BENDS	TEES		REDUCERS		PLUGS & VALVES
		SIZE	LENGTH	SIZE	LENGTH	
36	142	59	28	X36	X30	453
30	124	51	25	X30	X24	391
24	106	44	21	X24	X20	327
20	92	38	18	X20	X16	280
16	77	32	15	X16	X12	231
12	61	25	12	X12	X10	181
10	52	22	10	X10	X8	153
8	44	18	9	X8	X6	128
6	34	14	7	X6	X4	98
4	24	10	5	X4	X3	69

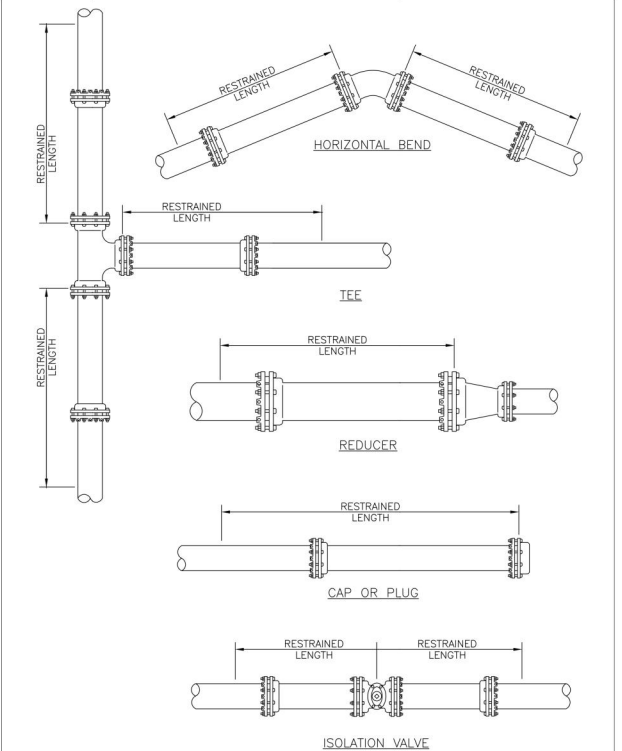
- NOTE:
- SEE UG-8, RESTRAINED LENGTHS FOR PVC PIPE DETAIL FOR NOTES 1 THROUGH 9 THAT ARE ALSO APPLICABLE TO RESTRAINED LENGTHS FOR DIP.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		RESTRAINED LENGTHS FOR DIP	UG-9
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

- NOTES:
- CONCRETE PAVEMENT SHALL BE REMOVED WITH SAWED EDGES AND CUT AT A MINIMUM DEPTH OF ONE AND ONE-HALF (1-1/2"). IF A SAW CUT IN CONCRETE PAVEMENT FALLS WITHIN THREE FEET (3') OF A CONTRACTION JOINT, COLD JOINT, EXPANSION JOINT OR EDGE, THE CONCRETE SHALL BE REMOVED TO THE JOINT OR EDGE. THE EDGES OF EXISTING CONCRETE PAVEMENT ADJACENT TO TRENCHES, WHICH HAD BEEN DAMAGED SUBSEQUENT TO SAW CUTTING OF PAVEMENT, SHALL BE SAW CUT TO NEAT STRAIGHT LINES FOR THE PURPOSE OF REMOVING THE DAMAGED PAVEMENT AREAS.
 - USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
 - PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - THICKNESS TO MATCH EXISTING OR BE 8" MINIMUM, WHICHEVER IS GREATER.
 - SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
 - BASE SHALL BE CRUSHED CONCRETE, 8" MIN. THICKNESS, LBR ≥150.
 - TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
 - TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.
 - NOTES 5 THRU 8 ARE MINIMUM REQUIREMENTS. REFER TO MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.



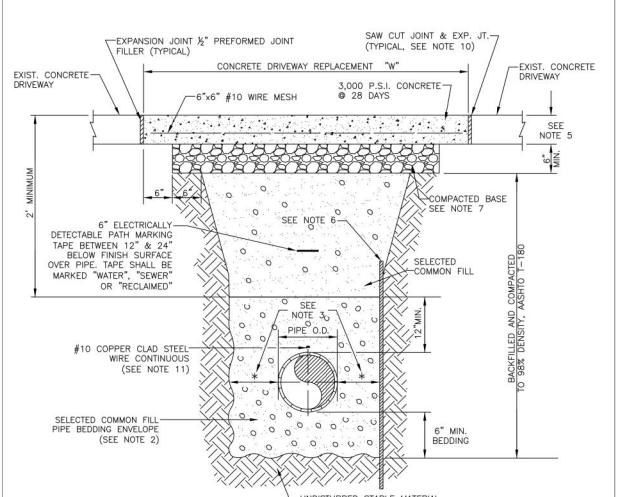
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE PAVEMENT SURFACE TYPE A-1 PIPE BEDDING	UG-13
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



- NOTE:
- SEE DETAIL UG-8 RESTRAINED LENGTHS FOR PVC PIPE FOR NOTES 1 THROUGH 9 THAT ARE ALSO APPLICABLE TO RESTRAINED LENGTHS FOR PIPE.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		RESTRAINED LENGTHS FOR PIPE	UG-10
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

- NOTES:
- CONCRETE PAVEMENT SHALL BE REMOVED WITH SAWED EDGES AND CUT AT A MINIMUM DEPTH OF ONE AND ONE-HALF (1-1/2"). IF A SAW CUT IN CONCRETE PAVEMENT FALLS WITHIN THREE FEET (3') OF A CONTRACTION JOINT, COLD JOINT, EXPANSION JOINT OR EDGE, THE CONCRETE SHALL BE REMOVED TO THE JOINT OR EDGE. THE EDGES OF EXISTING CONCRETE PAVEMENT ADJACENT TO TRENCHES, WHICH HAD BEEN DAMAGED SUBSEQUENT TO SAW CUTTING OF PAVEMENT, SHALL BE SAW CUT TO NEAT STRAIGHT LINES FOR THE PURPOSE OF REMOVING THE DAMAGED PAVEMENT AREAS.
 - USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
 - PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - THICKNESS TO MATCH EXISTING OR BE 6" MINIMUM, WHICHEVER IS GREATER.
 - SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISH GRADE OR 12" BELOW SUBGRADE.
 - BASE SHALL BE COMPACTED 6" MINIMUM THICKNESS OF APPROVED MATERIAL.
 - DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADOPTED CONSTRUCTION STANDARDS OF THE MANATEE COUNTY TRANSPORTATION DEPARTMENT.
 - IF THE DRIVEWAY IS 12' OR WIDER, SAWCUT AN EXPANSION JOINT ALONG THE CENTER OF THE DRIVEWAY (1/4" WIDE AND 1/2" DEEP) AFTER THE CONCRETE HAS SET.
 - IF THERE IS AN EXISTING EXPANSION JOINT WITHIN 3' OF THE PROPOSED JOINT, EXTEND DRIVEWAY REPLACEMENT TO THE EXISTING JOINT.
 - TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE DRIVEWAY SURFACE TYPE A-1 PIPE BEDDING	UG-14
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

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 PHONE: 727-547-3999
 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT 148400081
DATE SEPTEMBER 2023
SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY SLB
CHECKED BY KMS

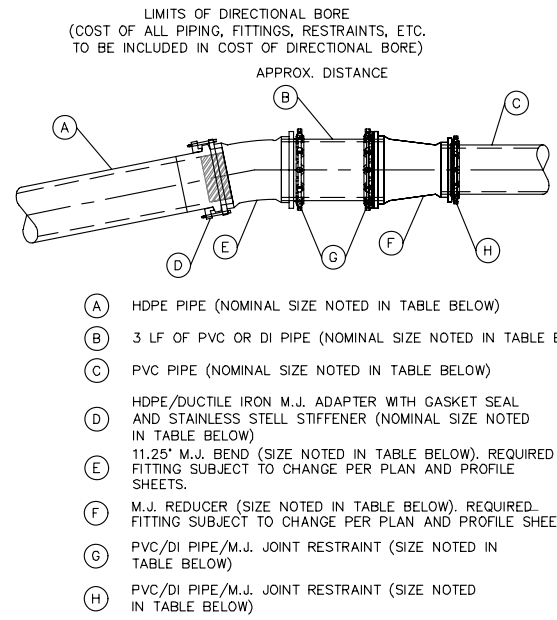
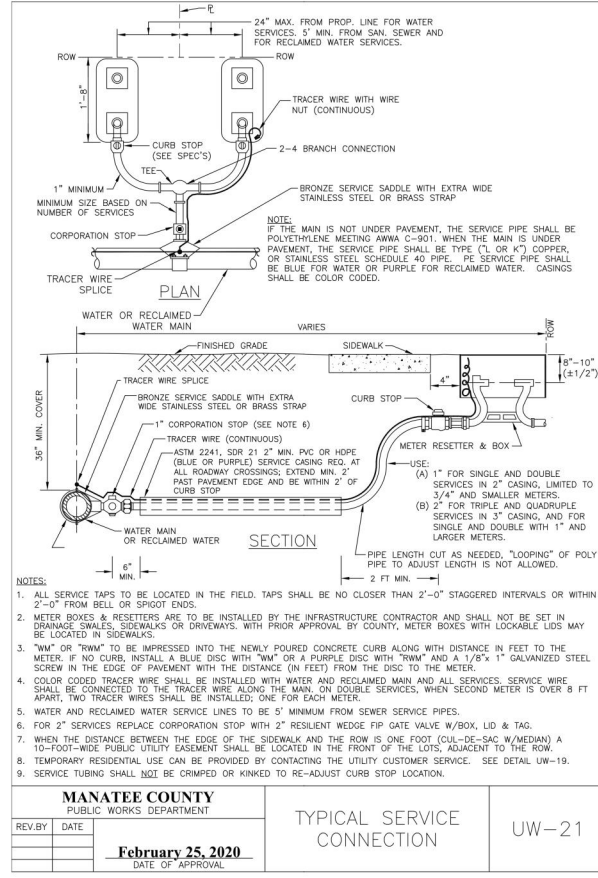
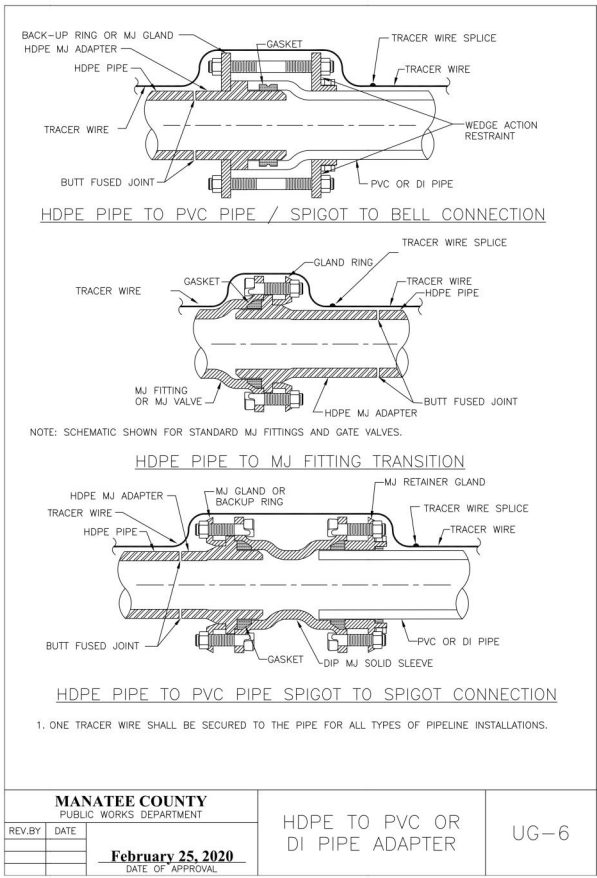
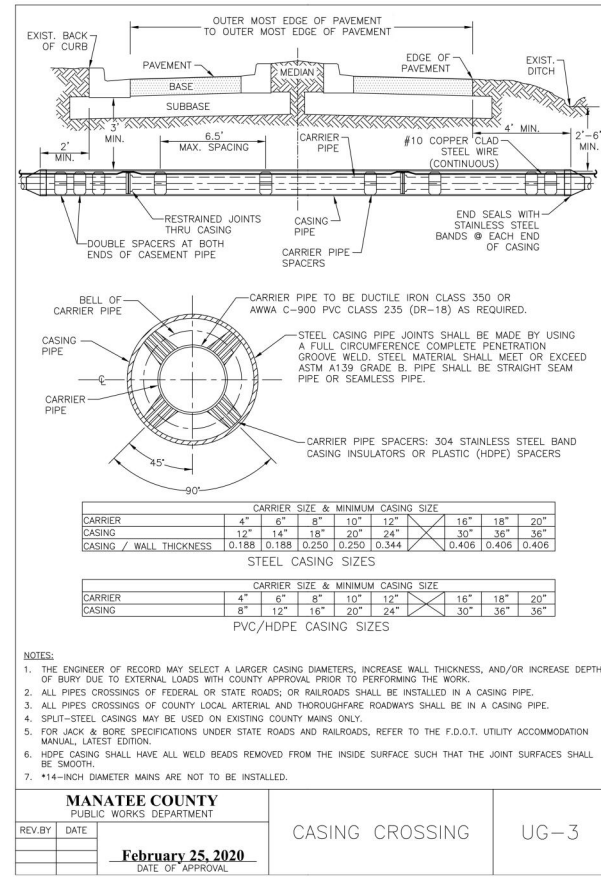
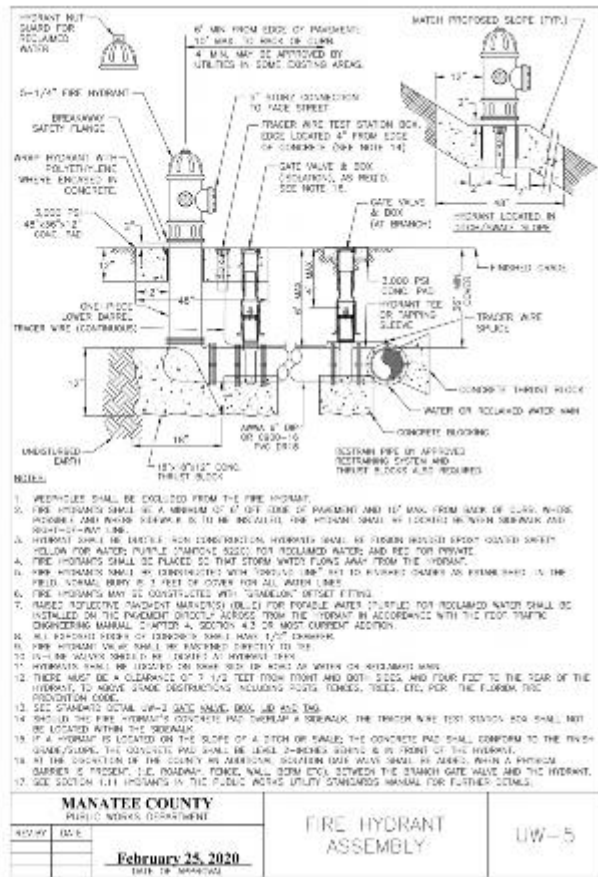
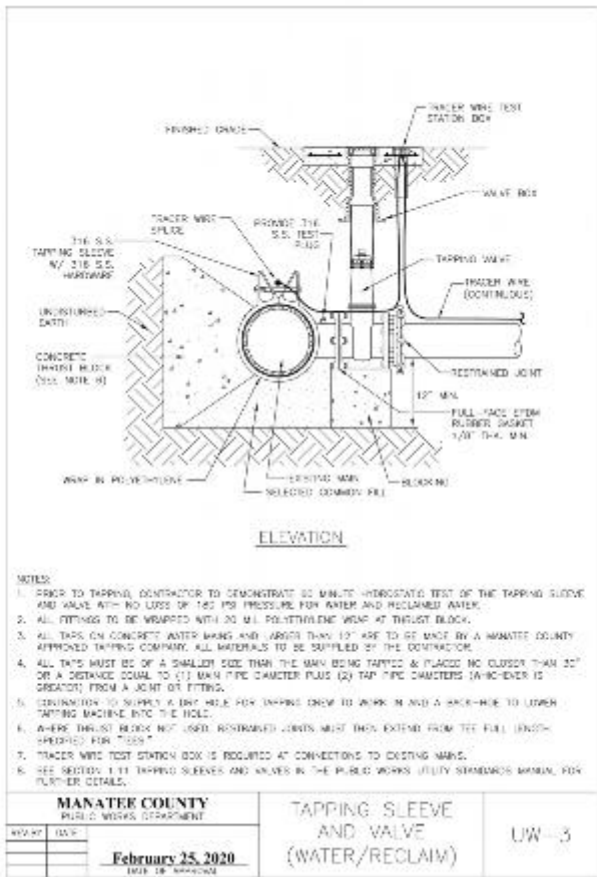
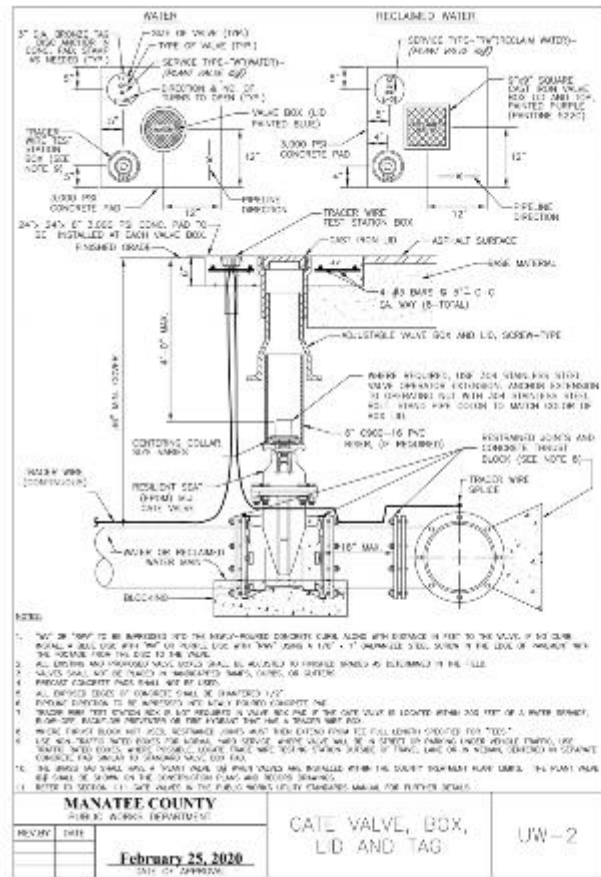
SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING
 MANATEE COUNTY

LICENSED PROFESSIONAL
 JORDAN W. WALKER, P.E.
 FL LICENSE NUMBER
 78652

DETAILS
 Approved SHEET NUMBER
 2023-H-194-00154
 Dan Rose 24
 10/4/2023

No.	REVISIONS	DATE	BY

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DIAMETER OF DRILL PIPE	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
6"	6"	6"	4"	6"	6"	6"x4"	6"	4"
8"	8"	8"	6"	8"	8"	8"x6"	8"	6"
10"	10"	10"	8"	10"	10"	10"x8"	10"	8"
12"	12"	12"	10"	12"	12"	12"x10"	12"	10"
16"	16"	16"	12"	16"	16"	16"x12"	16"	12"
18"	18"	18"	16"	18"	18"	18"x16"	18"	16"
20"	20"	20"	18"	20"	20"	20"x18"	20"	18"
24"	24"	24"	20"	24"	24"	24"x20"	24"	20"

HDPE TO PVC/DIP TRANSITION DETAIL
N.T.S.

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KHA PROJECT 148400081
DATE SEPTEMBER 2023
SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY SLB
CHECKED BY KMS

Manatee County
FLORIDA

SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING
MANATEE COUNTY

LICENSED PROFESSIONAL
JORDAN W. WALKER, P.E.
FL LICENSE NUMBER 78652

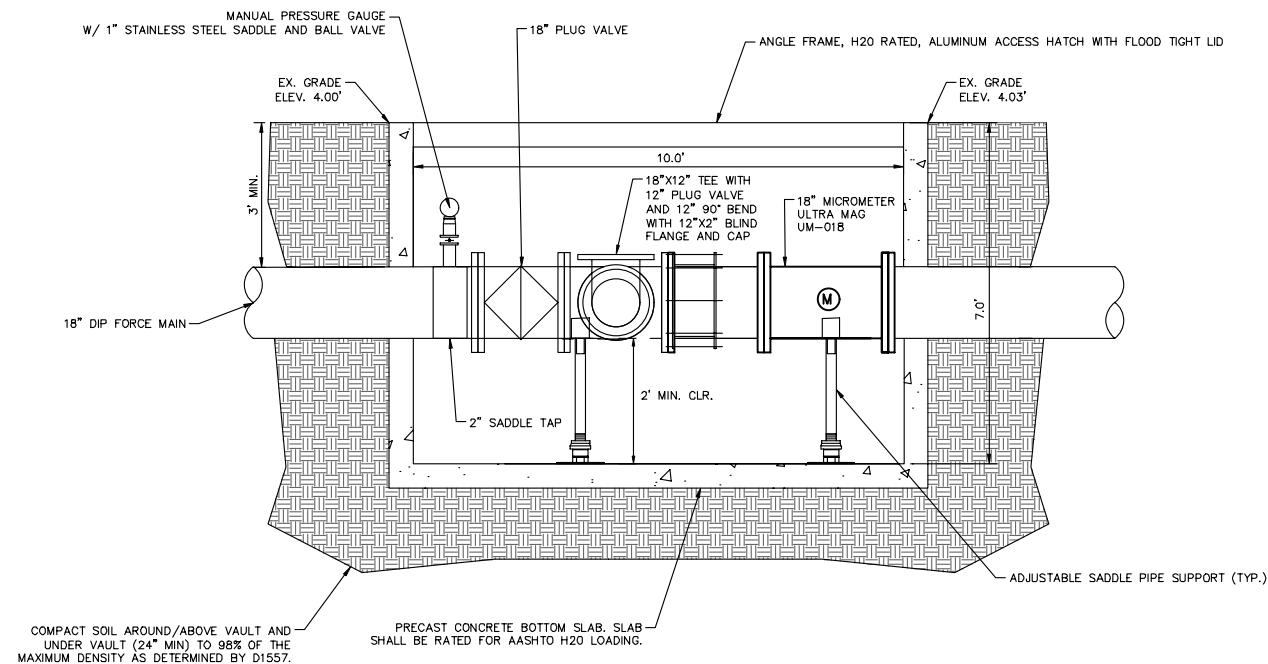
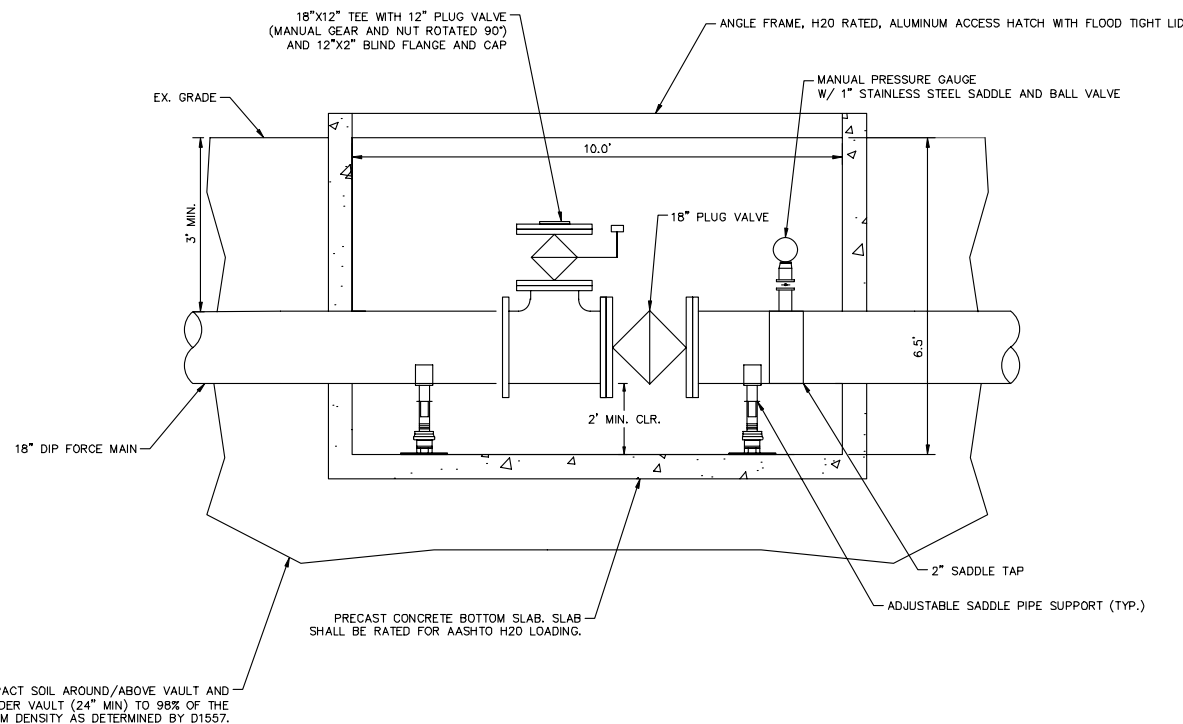
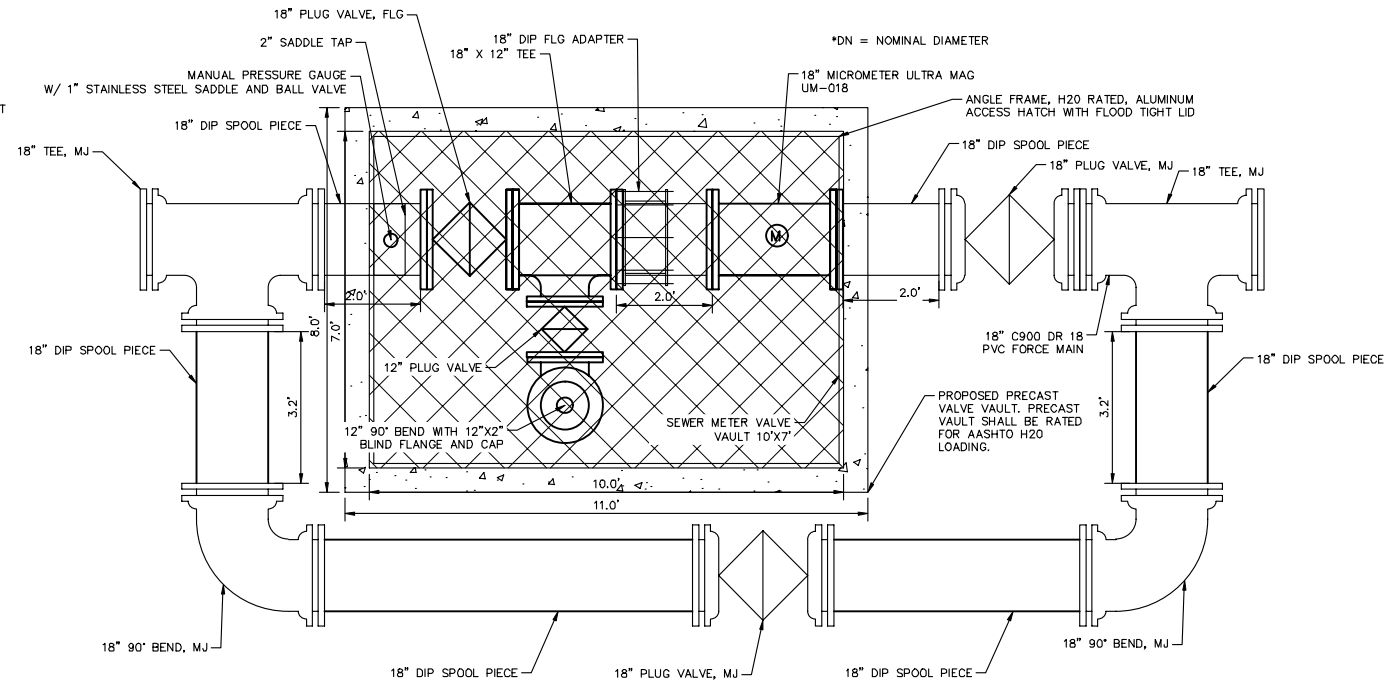
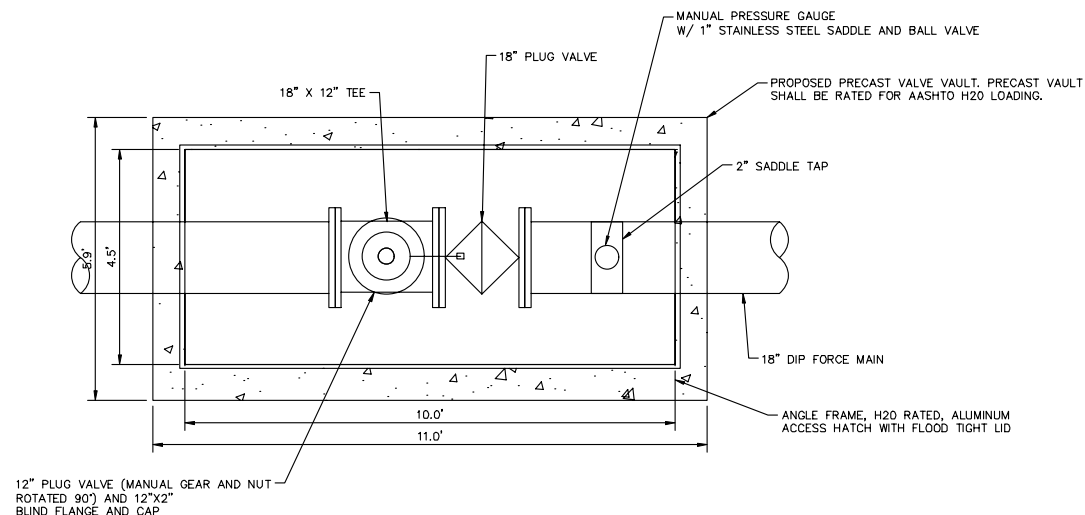
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10/4/2023

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FORCE MAIN BYPASS ASSEMBLY
WEST APPROACH DETAIL
N.T.S.

FORCE MAIN PRESSURE MONITORING
AND BYPASSING ASSEMBLY EAST
APPROACH DETAIL
N.T.S.

No.	REVISIONS	DATE	BY

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Manatee County
FLORIDA

SR 684 (CORTEZ ROAD) WATER MAIN AND
FORCE MAIN INTRACOASTAL CROSSING
MANATEE COUNTY

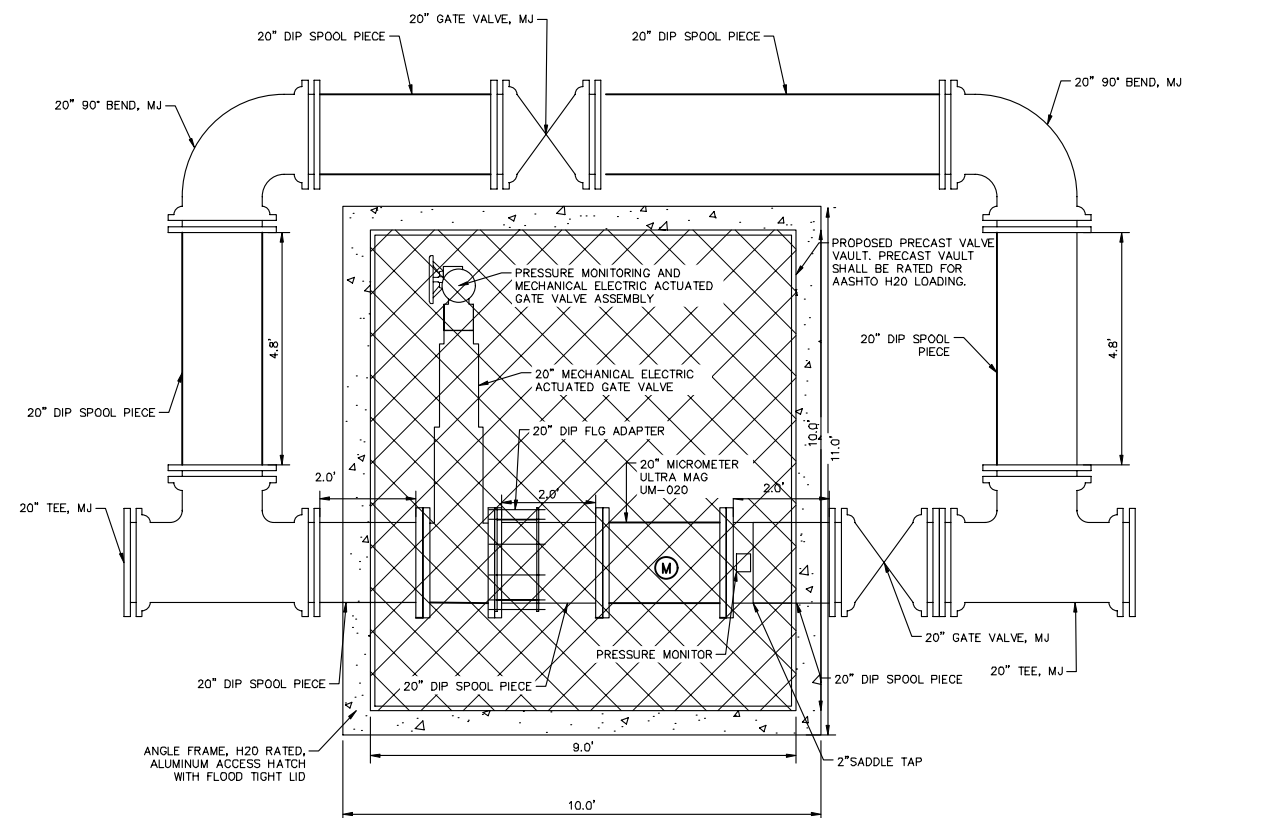
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26

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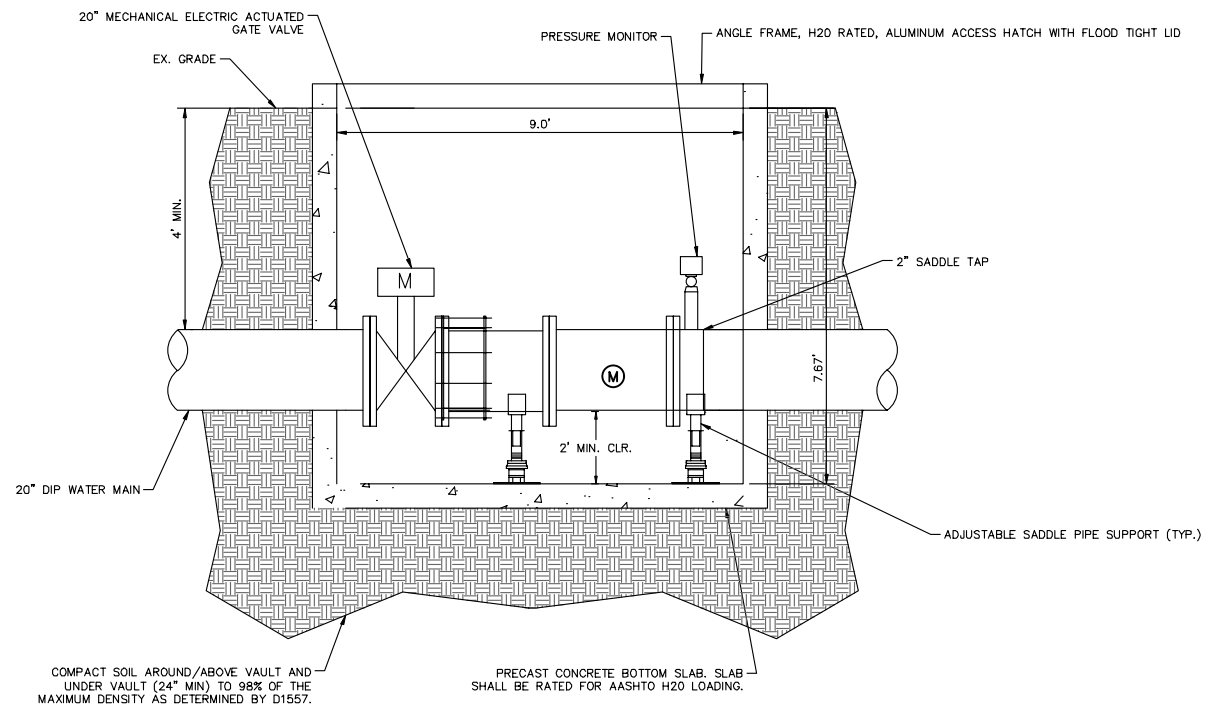


ELECTRICAL & INSTRUMENTATION APPROACH:

- POWER:**
- KIMLEY-HORN RECOMMENDS UTILIZING AN ELECTRICAL SERVICE FOR POWER FOR REMOTE MONITORING OF PRESSURE AND FLOW ON THE WATER MAIN WITH THE ADDITION OF A MOTOR OPERATED VALVE AND REMOTE MANUAL CONTROL.
 - KIMLEY-HORN RECOMMENDS UTILIZING AN ELECTRICAL SERVICE FOR POWER FOR REMOTE MONITORING OF THE FLOW FOR THE FORCE MAIN.
 - THE ELECTRICAL UTILITY SUPPLYING THIS AREA IS FLORIDA POWER & LIGHT COMPANY (FPL).
 - FPL ELECTRIC SERVICE STANDARDS ALLOW 115V SINGLE PHASE MOTORS UP TO 1/2 HP AND RECOMMENDS SINGLE PHASE MOTORS 3/4 HP AND ABOVE BE 230V. SINGLE PHASE MOTORS ABOVE 5 HP ARE NOT ALLOWED.
 - THE APPROACH WOULD BE TO OBTAIN TWO (2) OVERHEAD OR UNDERGROUND 120/240VAC, 1Ø SERVICES FROM FPL OVERHEAD DISTRIBUTION SYSTEM IN THE VICINITY. ONE SERVICE WOULD SUPPLY THE WATER MAIN ASSEMBLY AND THE OTHER SUPPLY THE FORCE MAIN ASSEMBLY. EACH SERVICE WILL TERMINATE IN A CONTRACTOR FURNISHED SELF-CONTAINED METER SOCKET WITH REVENUE METER FURNISHED AND INSTALLED BY FPL.

INSTRUMENTATION:
PROPOSED INSTRUMENTATION SHALL BE INTEGRATED WITH THE CURRENT MANATEE COUNTY SYSTEM.

INSTRUMENT	MANUFACTURER	COMMENTS
PRESSURE INDICATING TRANSMITTER	1. ENDRESS & HAUSER 2. ROSEMOUNT	SPECIFY WITH DIAPHRAM SEAL AND MAINTENANCE SHUTOFF VALVE FOR WASTEWATER FORCE MAIN; SPECIFY AS FDA AND/OR NSF 61 FOR WATER MAIN



WATER MAIN PRESSURE MONITORING AND VALVE ASSEMBLY EAST APPROACH DETAIL
N.T.S.

27

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KHA PROJECT 148400081
DATE SEPTEMBER 2023
SCALE AS SHOWN
DESIGNED BY JWW
DRAWN BY SLB
CHECKED BY KMS

Manatee County FLORIDA

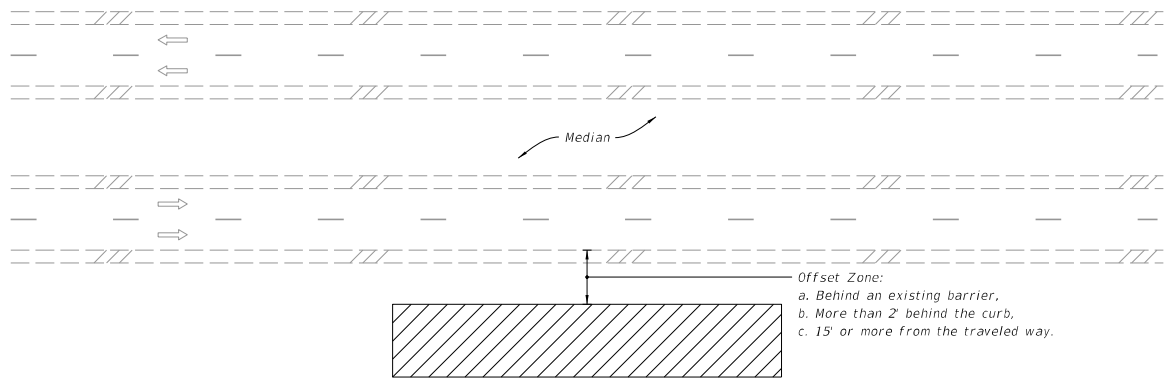
SR 684 (CORTEZ ROAD) WATER MAIN AND FORCE MAIN INTRACOASTAL CROSSING
MANATEE COUNTY

LICENSED PROFESSIONAL JORDAN W. WALKER, P.E. FL LICENSE NUMBER 78652

Approved
2023-H-194-00154
Dan Rose
10/4/2023

DETAILS

SHEET NUMBER
27



=====**MULTILANE ROADWAY SHOWN, TWO-LANE ROADWAY SIMILAR**=====

- NOTES:**
1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work beyond the shoulder.
 2. Use Index 102-602 when 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 period.
 3. Use Index 102-660 when Work Area encroaches a Sidewalk.

- SYMBOLS:**
- Work Area
 - Lane Identification and Direction of Traffic

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

LAST REVISION 11/01/20	REVISION	DESCRIPTION:	FY 2023-24 STANDARD PLANS	TWO-LANE AND MULTILANE ROADWAY, WORK BEYOND THE SHOULDER	INDEX 102-601	SHEET 1 of 1
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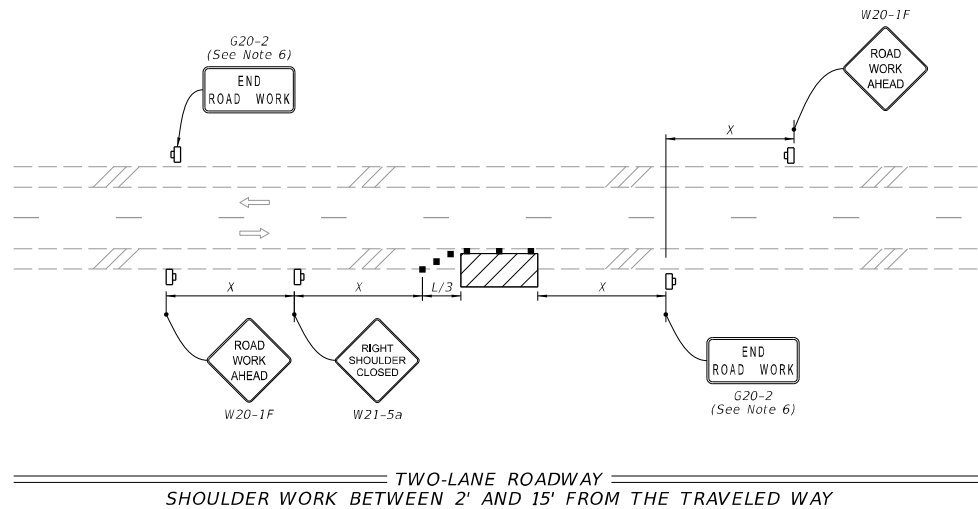
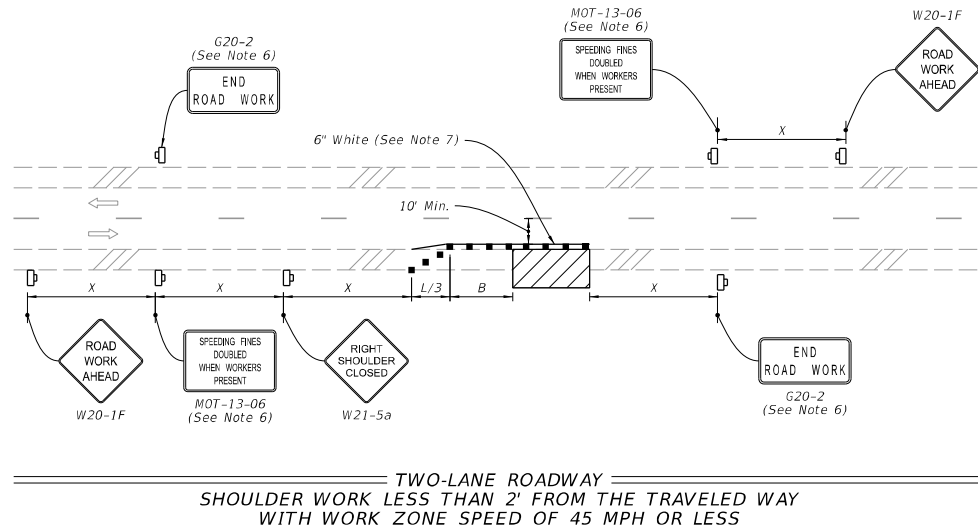
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 Dan Rose
 10/4/2023

NOTE:


1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.
2. L = Taper Length
X = Work Zone Sign Spacing
B = Buffer Length
See Index 102-600 for "L", "X", "B", and channelizing device spacing values.
3. Where work activities are between 2' and 15' from the edge of traveled way, the Engineer may omit signs and channelizing devices for work operations 60 minutes or less.
4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.
5. For work less than 2' from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.
6. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the work operation is in place for 24 hours or less.
7. Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.
8. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median.
9. When there is no paved shoulder, the "Worker" sign (W21-1) may be used instead of the "Shoulder Closed" sign (W21-5a).

SYMBOLS:

-  Work Area
-  Channelizing Device (See Index 102-600)
-  Work Zone Sign
-  Lane Identification and Direction of Traffic

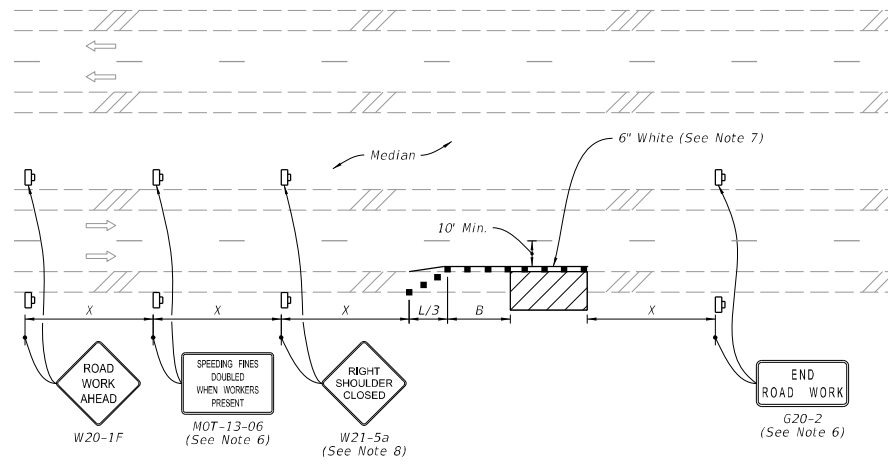


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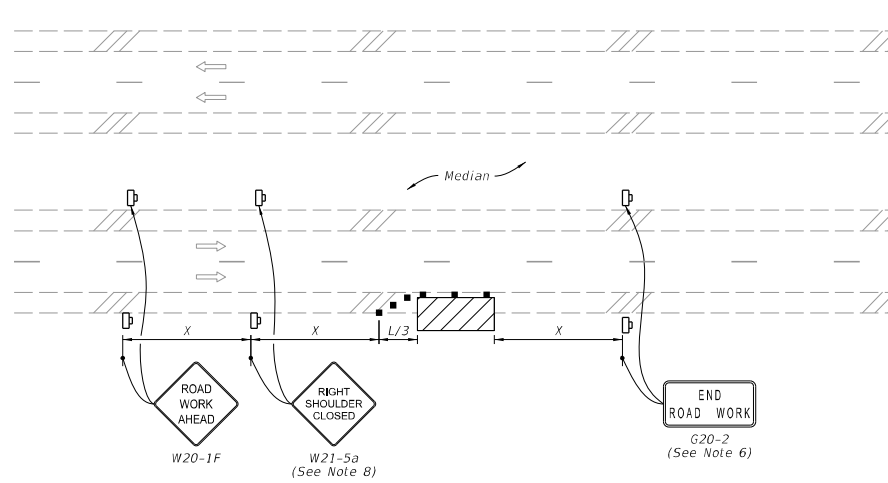
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 10/4/2023

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MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic

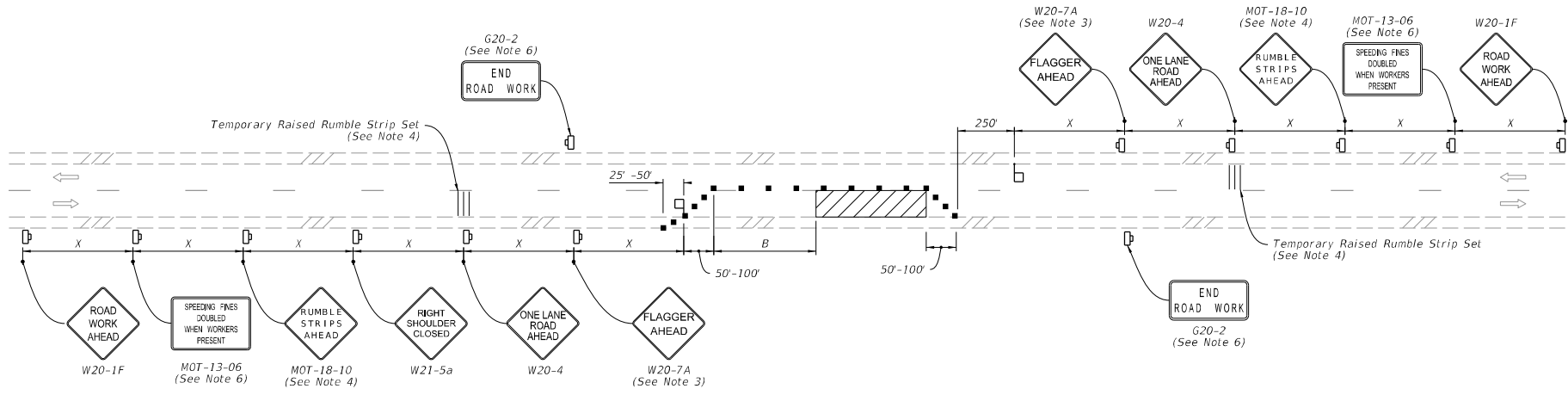
LAST REVISION 11/01/20	REVISION	DESCRIPTION:
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TWO-LANE AND MULTILANE, WORK ON SHOULDER

INDEX 102-602	SHEET 2 of 2
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Dan Rose
10/4/2023

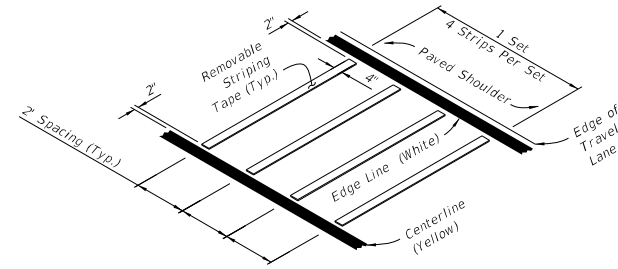


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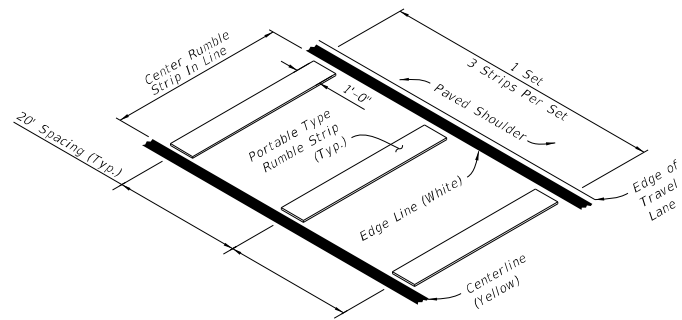
- This Index applies to Two-Lane, Two-Way Roadways with work within the traveled way.
- L = Taper Length
B = Buffer Length
X = Work Zone Sign Spacing
See Index 102-600 for "L", "B", "X" and channelizing device spacing values.
- Optionally, use "Flagger Ahead" sign with symbol (W20-7) instead of "Flagger Ahead" sign with text (W20-7A).
- Use temporary raised rumble strips when the existing posted speed is 55 mph or greater and the work duration is greater than 60 minutes. If temporary raised rumble strips are not used, omit "Rumble Strips Ahead" signs (MOT-18-10) and associated work zone sign spacing.
- Additional one-way control may be provided by the following means:
 - Flag-carrying vehicle
 - Official vehicle
 - Pilot vehicles
 - Traffic signals
- The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign spacing, may be omitted when the work operation will be in place for 24 hours or less.
- Automated Flagger Assistance Devices (AFADs) may be used in accordance with Specification Sections 102, 990 and the APL vendor drawings.
- Railroad Crossings:
 - If an active railroad crossing is located closer to the Work Area than the queue length plus 300 feet, extend the Buffer Space as shown on Sheet 2.
 - If the queuing of vehicles across an active railroad crossing cannot be avoided, provide a uniformed traffic control officer or flagger at the highway-rail grade crossing to prevent vehicles from stopping within the highway-rail grade crossing, even if automatic train warning devices are in place.

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification and Direction of Traffic



**OPTION - 1
REMOVABLE STRIPING TYPE**



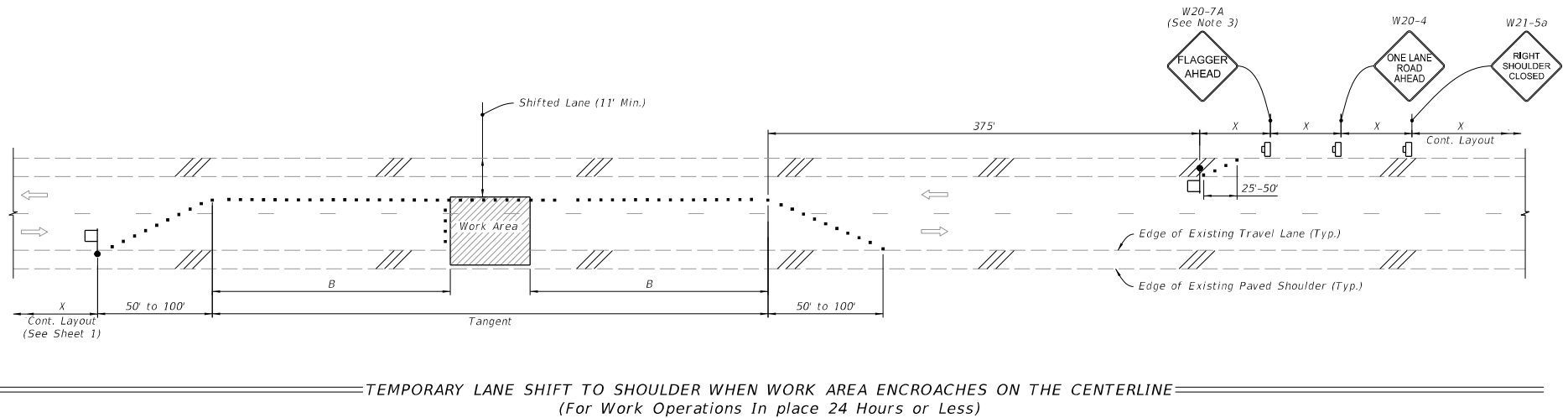
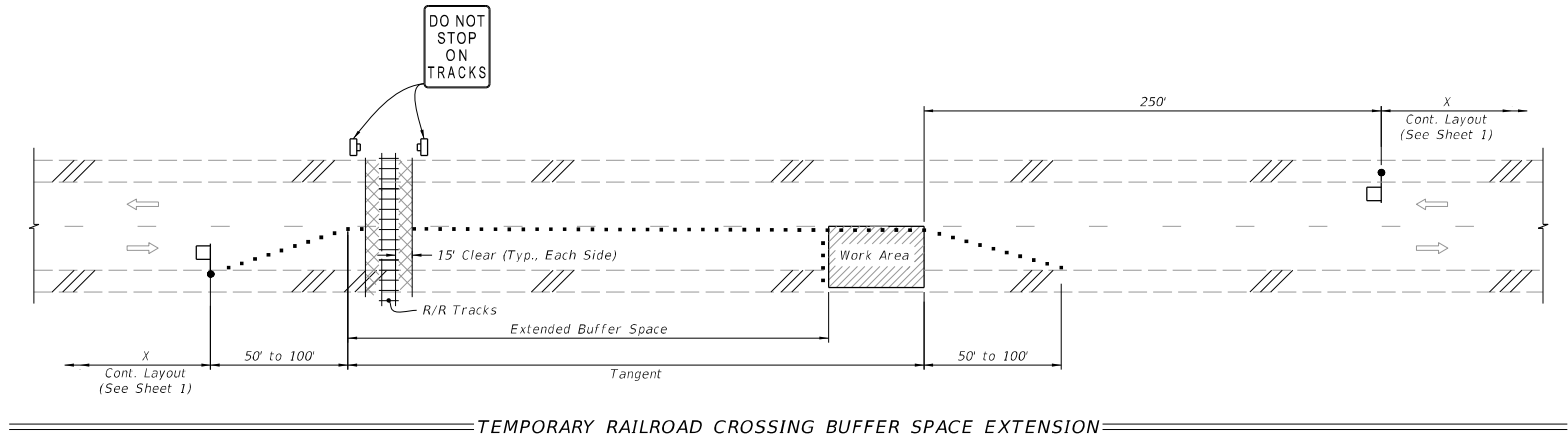
**OPTION - 2
PORTABLE TYPE**

RUMBLE STRIP SETS

10/16/2022 1:24:30 PM

LAST REVISION 11/01/21	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	TWO-LANE, TWO-WAY WORK WITHIN THE TRAVEL WAY	INDEX 102-603	SHEET 1 of 2
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Approved
 2023-H-194-00154
 Dan Rose
 10/4/2023



SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification and Direction of Traffic

SPECIAL CONDITIONS

LAST REVISION 11/01/21	DESCRIPTION:
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**FY 2023-24
STANDARD PLANS**

**TWO-LANE, TWO-WAY
WORK WITHIN THE TRAVEL WAY**



INDEX 102-603	SHEET 2 of 2
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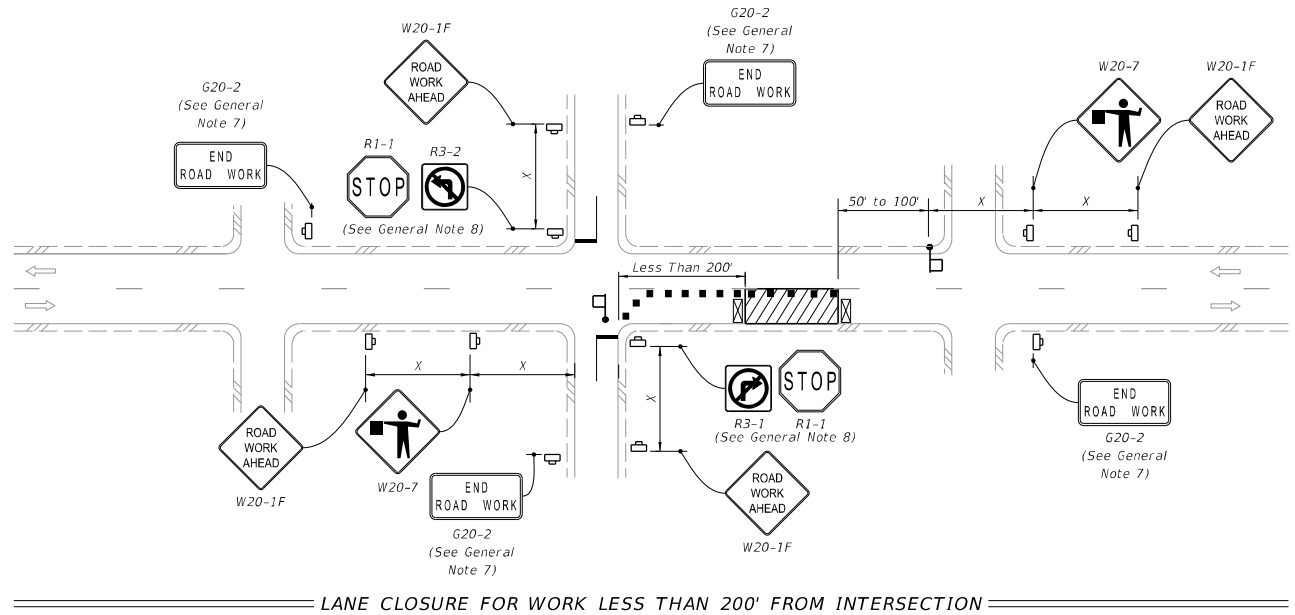
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 2023-H-194-00154
 Dan Rose
 10/4/2023

GENERAL NOTES:

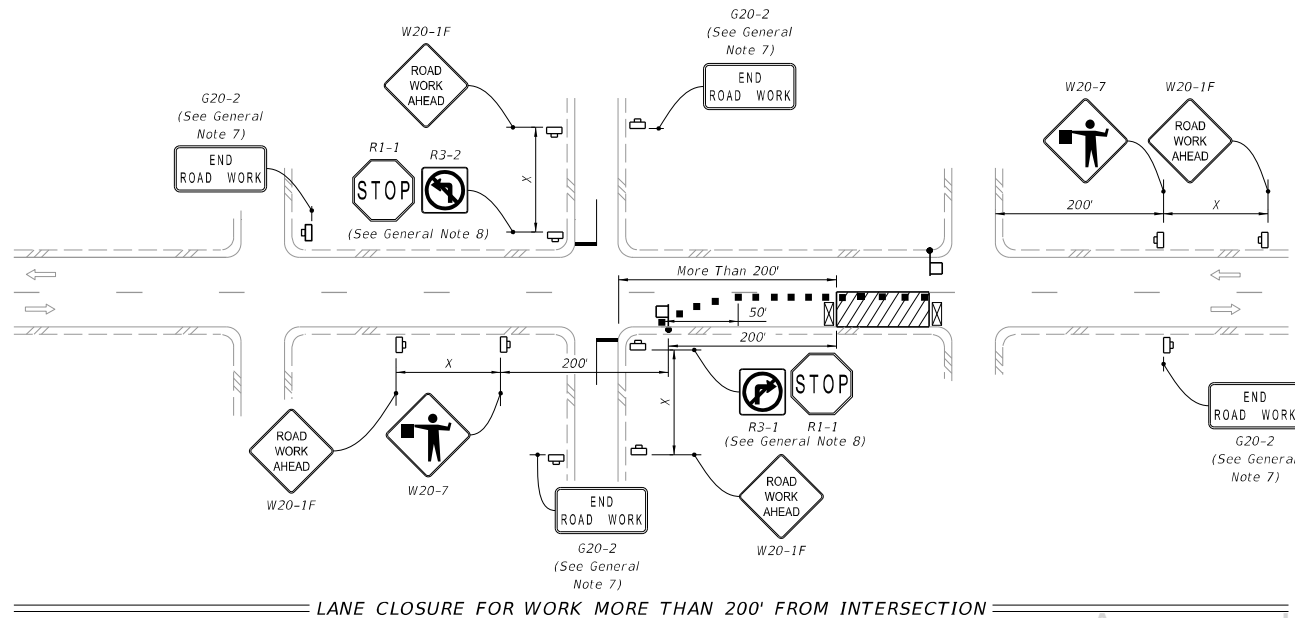
1. This Index applies to two-lane, two-way roadways with work within or near the intersection.
2. X = Work Zone Sign Spacing
See Index 102-600 for "X" and channelizing device spacing values.
3. Optionally, use "Flagger Ahead" sign with text (W20-7A) instead of "Flagger Ahead" sign with symbol (W20-7).
4. If vehicles in a parking zone block the line of sight to TCZ signs, locate and post mount signs in accordance with Index 700-101.
5. If the work area extends across a crosswalk, close the crosswalk in accordance with Index 102-660.
6. For unsignalized intersections, use Temporary Raised Rumble Strips in accordance with Index 102-603. Placement of Rumble Strips and additional signs should begin at FLAGGER sign location.
7. The "End Road Work" signs (G20-2) along with the associated work zone sign distances may be omitted when the work zone will be in place for 24 hours or less.
8. As an option to the "STOP" sign (R1-1) and Restricted Left/Right Turning Movement sign (R3-1 or R3-2), the "SIDE ROAD INTERSECTING THE WORK ZONE" flagging operation from Index 102-600 may be used.

SYMBOLS:

-  Work Area
-  Channelizing Device (See Index 102-600)
-  Work Zone Sign
-  Type III Barricade
-  Stop Bar
-  Flagger
-  Lane Identification and Direction of Traffic




LANE CLOSURE FOR WORK LESS THAN 200' FROM INTERSECTION



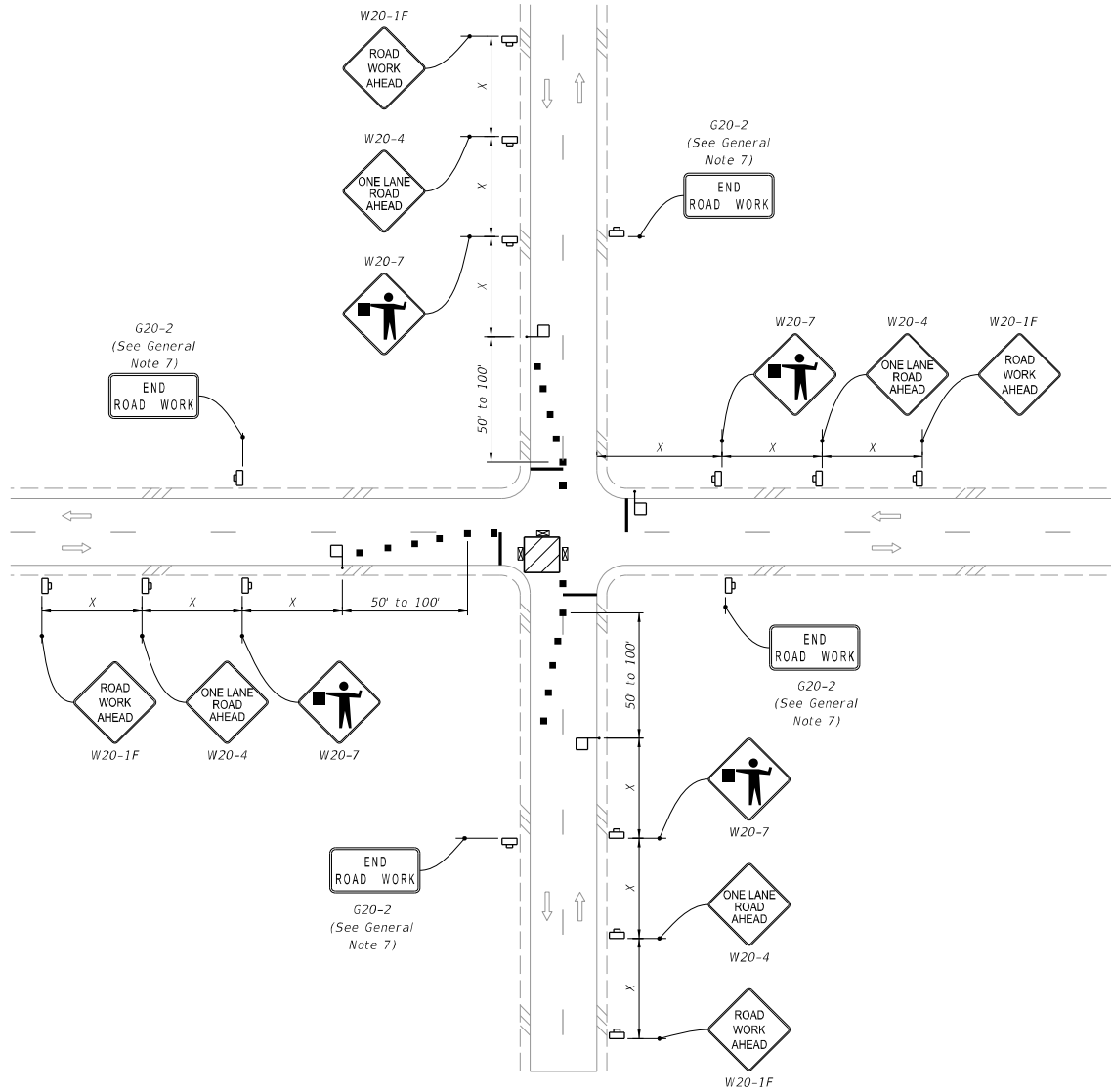
LANE CLOSURE FOR WORK MORE THAN 200' FROM INTERSECTION

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LAST REVISION 11/01/22	REVISION	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	TWO-LANE, TWO-WAY, INTERSECTION WORK INDEX 102-604 SHEET 1 of 2
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 Dan Rose
 10/4/2023

10/16/2022 1:24:46 PM



SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Type III Barricade
- Stop Bar
- Flagger
- Lane Identification and Direction of Traffic

WORK IN INTERSECTION OF TWO-LANE ROADWAY

LAST REVISION 11/01/22	DESCRIPTION:
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FY 2023-24
 STANDARD PLANS

TWO-LANE, TWO-WAY, INTERSECTION WORK








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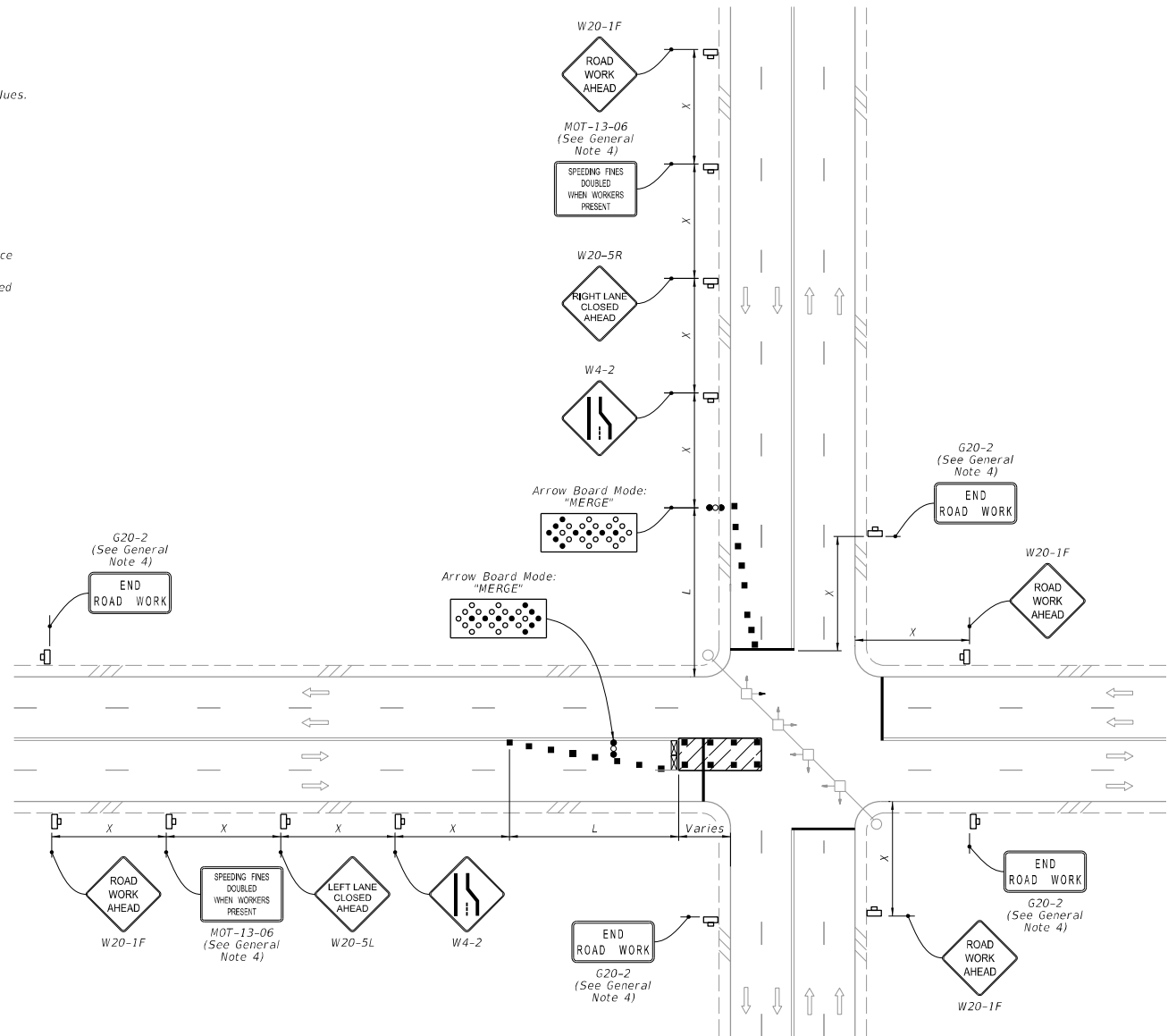
INDEX 102-604	SHEET 2 of 2
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GENERAL NOTES:

1. L = Taper Length
B = Buffer Length
X = Work Zone Sign Distance
See Index 102-600 for "L", "B", "X", and channelizing device spacing values.
2. If vehicles in a parking zone block the line of sight to TCZ signs, locate and post mount signs in accordance with Index 700-101.
3. Use temporary "STOP" sign (R1-1) where the existing stop bar is more than 30' from the taper, remove or cover existing sign.
4. The "Speeding Fines Doubled When Workers Present" sign (MOT-13-06) and "End Road Work" Sign (G20-2), along with associated Work Zone Sign Distances, may be omitted when the work operation will be in place for 24 hours or less. Additionally, arrow boards may be omitted when the work operation will be in place for 60 minutes or less and the speed limit is 45 mph or less.
5. If the work area extends across a crosswalk, close the crosswalk in accordance with Index 102-660.
6. Dual signs are required for divided roadways.


SYMBOLS:

-  Work Area
-  Channelizing Device (See Index 102-600)
-  Work Zone Sign
-  Type III Barricade
-  Arrow Board
-  Stop Bar
-  Lane Identification and Direction of Traffic



WORK IN INTERSECTION OF MULTILANE ROADWAY

10/17/2022 2:45:57 PM

LAST REVISION 11/01/22	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	MULTILANE ROADWAY, INTERSECTION WORK	INDEX 102-615	SHEET 1 of 5
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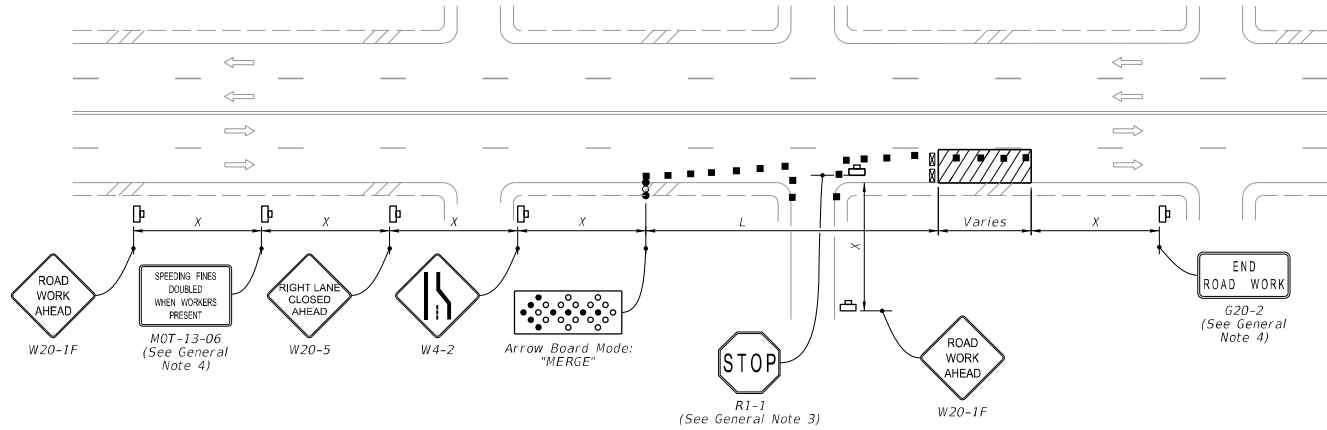
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 Dan Rose
 10/4/2023

NOTE:

Confine work operations to the following lane or lane combinations:

- a. Outside travel lane
- b. Outside auxiliary lane
- c. Outside travel lane and adjoining auxiliary lane
- d. Inside travel lane
- e. Inside auxiliary lane
- f. Inside travel lane and adjoining auxiliary lane

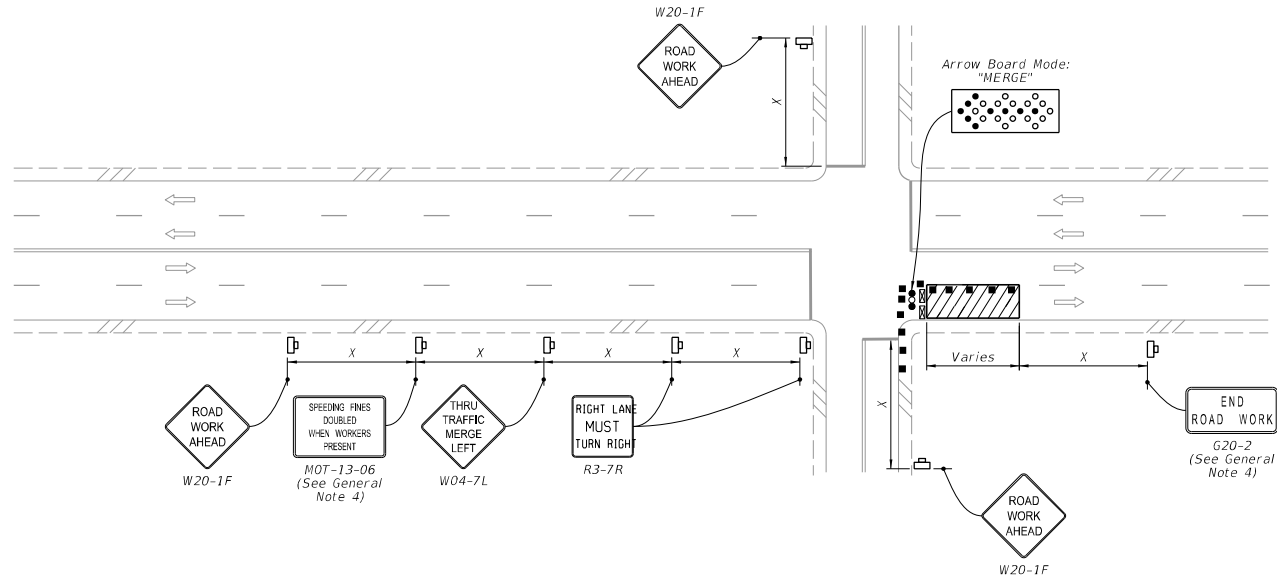
If the work area is confined to an auxiliary lane, the work area must be barricaded. Replace the RIGHT (LEFT) LANE CLOSED AHEAD signs with ROAD WORK AHEAD signs, and omit the merge symbol signs and arrow board.



RIGHT LANE CLOSED ON FAR SIDE OF MINOR SIDE STREET

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Type III Barricade
- Arrow Board
- Stop Bar
- Lane Identification and Direction of Traffic



RIGHT LANE CLOSED ON FAR SIDE OF INTERSECTION WITH SIGNIFICANT RIGHT TURNING MOVEMENTS

11/01/2022 1:39:11 PM

LAST REVISION 11/01/22	REVISION	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	MULTILANE ROADWAY, INTERSECTION WORK	INDEX 102-615	SHEET 2 of 5
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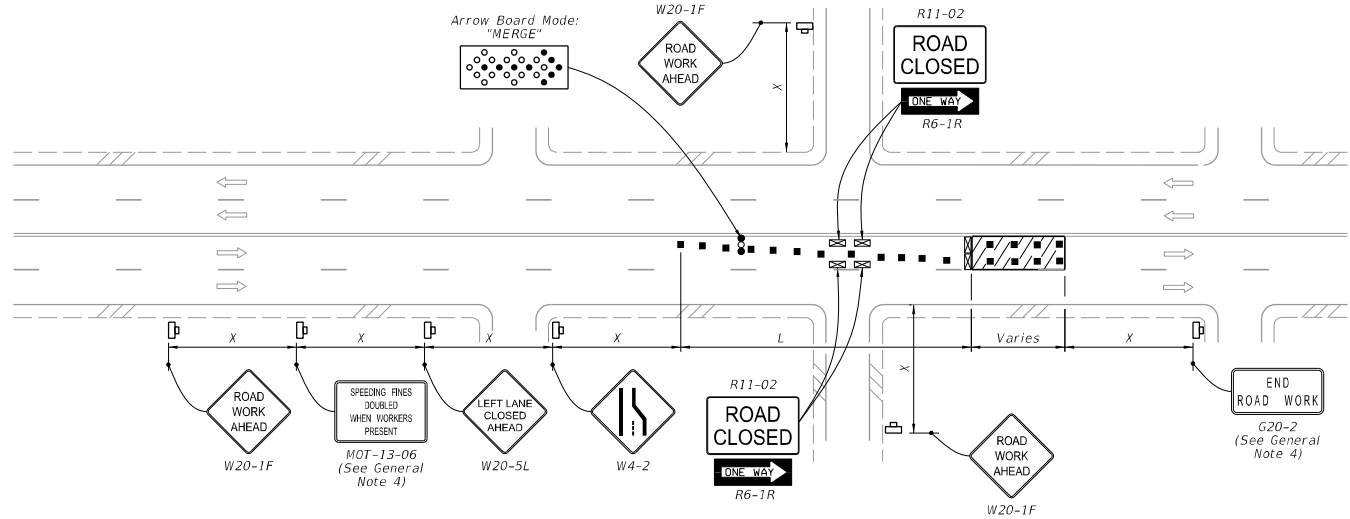
NOTES:

1. Confine work operations to the following lane or lane combinations:

- a. Outside travel lane
- b. Outside auxiliary lane
- c. Outside travel lane and adjoining auxiliary lane
- d. Inside travel lane
- e. Inside auxiliary lane
- f. Inside travel lane and adjoining auxiliary lane

If the work area is confined to an auxiliary lane, the work area must be barricaded. Replace the RIGHT (LEFT) LANE CLOSED AHEAD signs with ROAD WORK AHEAD signs, and omit the merge symbol signs and arrow board.

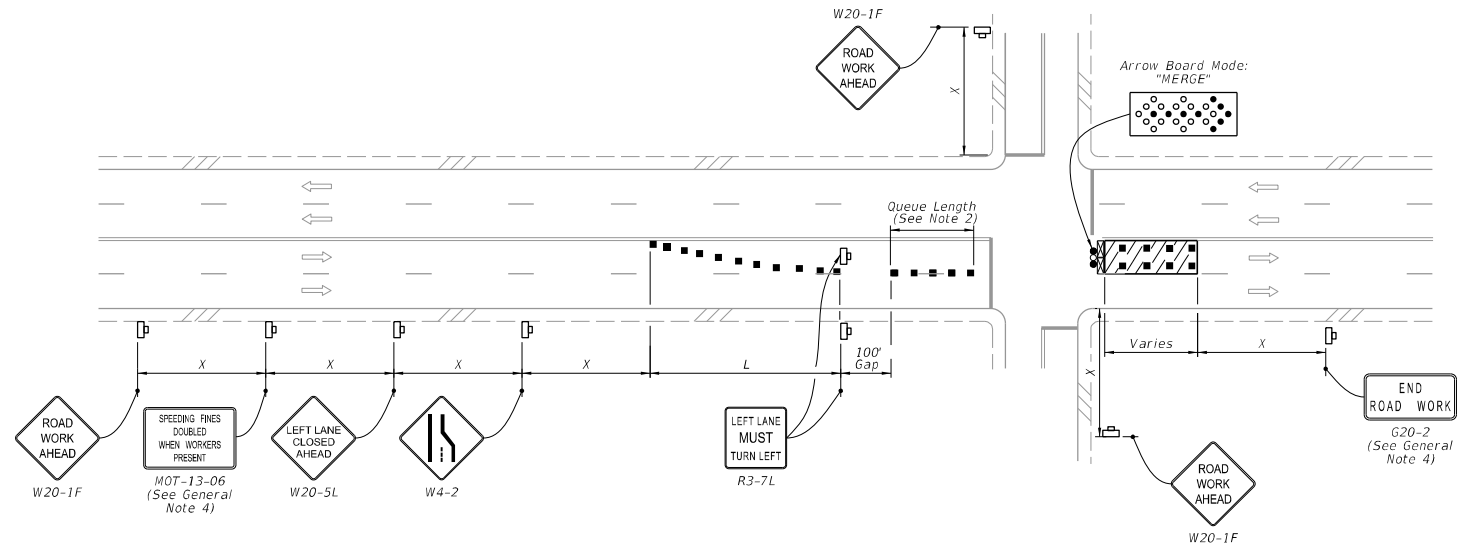
2. Provide sufficient Queue Length so that left-turning vehicles do not block through lanes.



LEFT LANE CLOSED ON FAR SIDE OF MINOR SIDE STREET - RESTRICTED TURNING MOVEMENTS

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Type III Barricade
- Arrow Board
- Stop Bar
- Lane Identification and Direction of Traffic

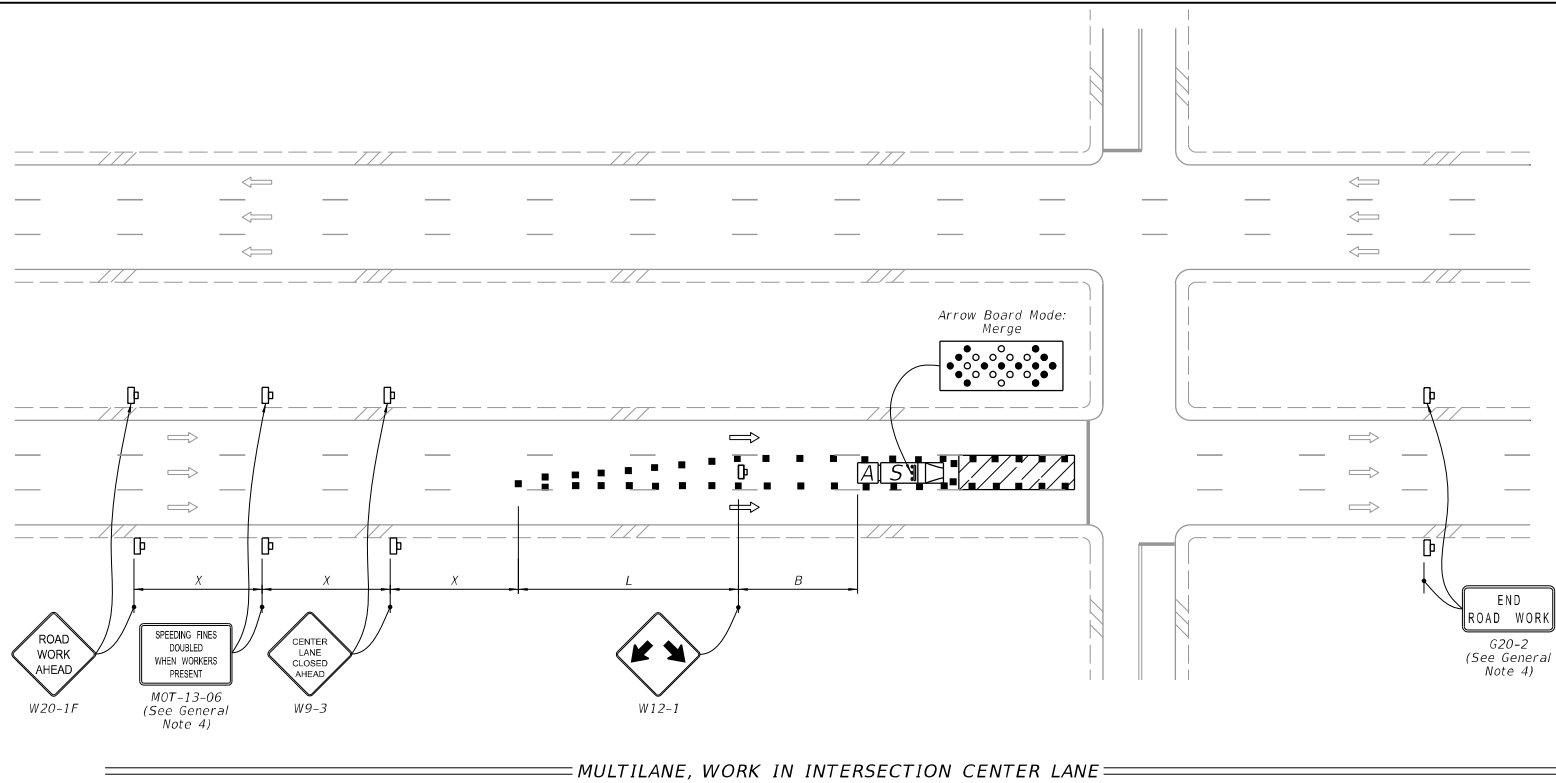


LEFT LANE CLOSED ON FAR SIDE OF INTERSECTION TURNING MOVEMENTS ALLOWED

12/13/2022 8:03:16 AM

LAST REVISION 11/01/22	REVISION	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	MULTILANE ROADWAY, INTERSECTION WORK	INDEX 102-615	SHEET 3 of 5
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 Dan Rose
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MULTILANE, WORK IN INTERSECTION CENTER LANE


NOTES:

1. Confine work operations to one center travel lane and leave the adjacent travel lanes open to traffic.
2. Ensure that the merging taper only directs vehicular traffic into either the right or left lane.

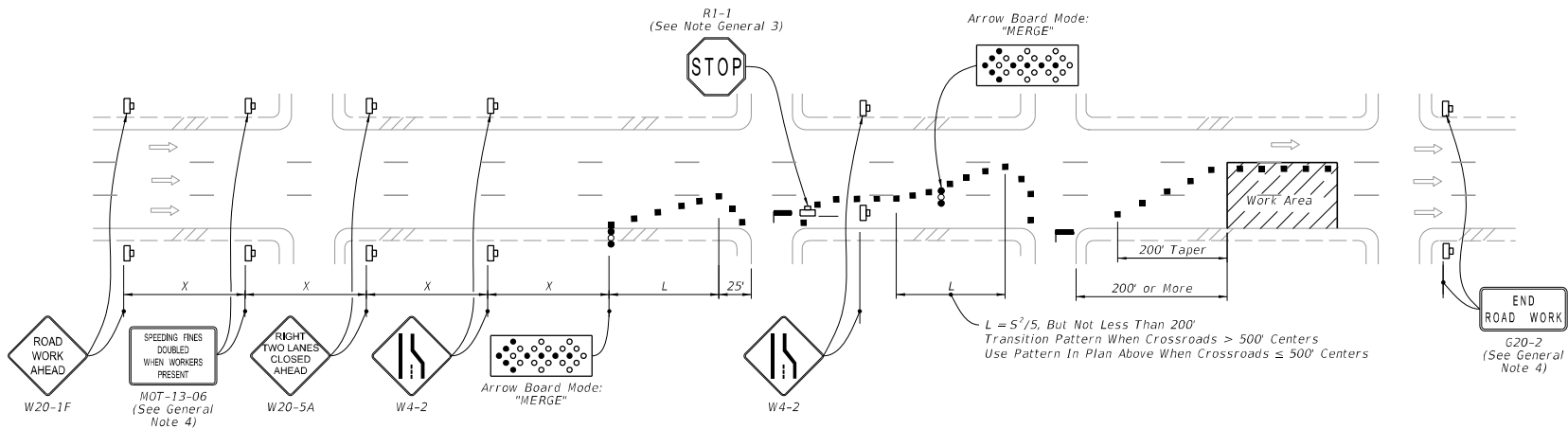
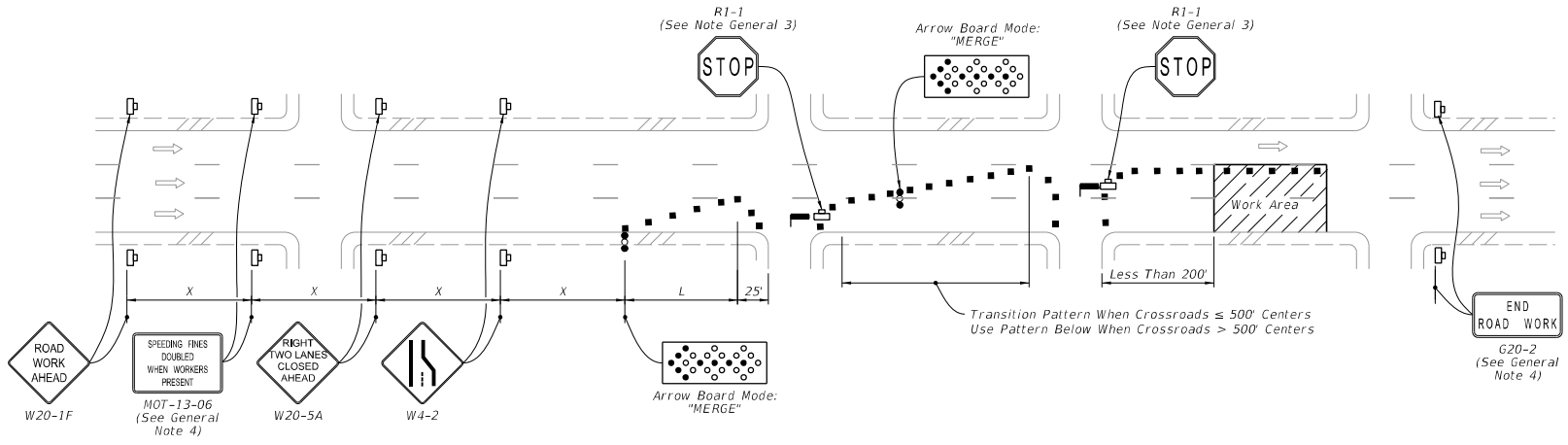
SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Type III Barricade
- Arrow Board
- Stop Bar
- Shadow (S) Vehicle With Warning Lights And Arrow Board
- Truck/Trailer Mounted Attenuator (TMA)
- Lane Identification and Direction of Traffic

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 Dan Rose
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SYMBOLS: (See General Note 5)

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Arrow Board
- Stop Bar
- Lane Identification and Direction of Traffic

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LAST REVISION 11/01/22	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	MULTILANE ROADWAY, INTERSECTION WORK	INDEX 102-615	SHEET 5 of 5
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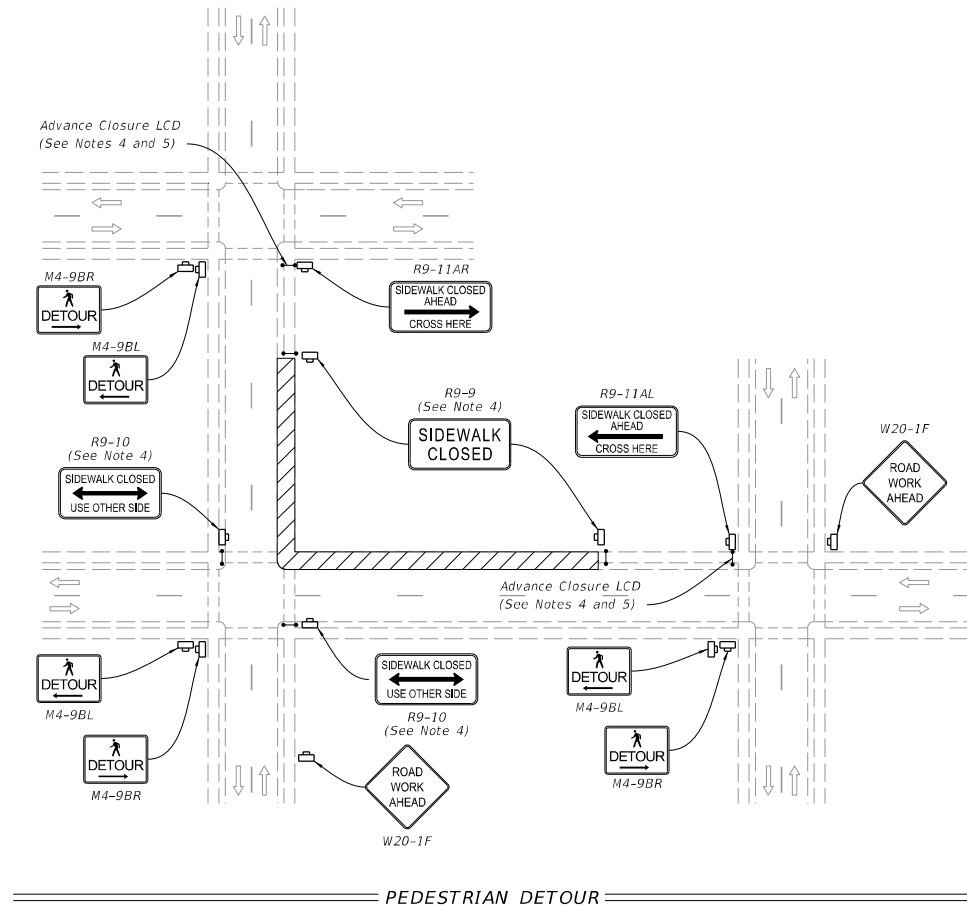
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 Dan Rose
 10/4/2023

NOTES:


1. Cover or deactivate pedestrian traffic signal display(s) controlling closed crosswalks.
2. Place pedestrian LCDs across the full width of the closed sidewalk.
3. For post mounted signs located near or adjacent to a sidewalk, maintain a minimum 7' clearance from the bottom of the sign panel to the surface of the sidewalk.
4. "Sidewalk Closed" signs (R9-XX) may be mounted on pedestrian LCDs in accordance with the manufacturer's instructions.
5. Omit the Advance Closure LCD if it blocks access to other pedestrian facilities (e.g., transit stops, residences, or business entrances).

SYMBOLS:

-  Work Area
-  Work Zone Sign
-  Pedestrian Longitudinal Channelizing Device (LCD)
-  Lane Identification and Direction of Traffic



10/16/2022 1:28:35 PM

LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	SIDEWALK CLOSURE	Approved 2023-H-194-00154 Dan Rose 10/4/2023	INDEX 102-660	SHEET 1 of 2
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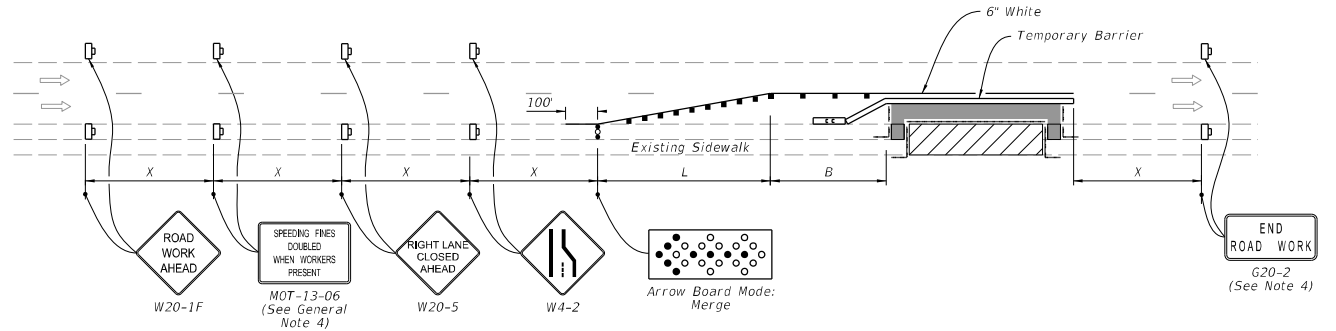
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NOTES:

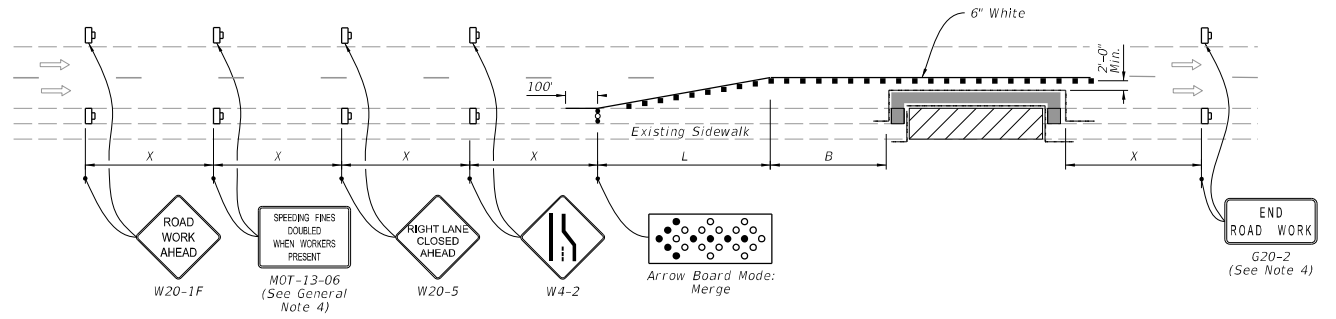
1. L = Taper Length
B = Buffer Length
X = Work Zone Sign Distance
See Index 102-600 for "L", "B", "X", channelizing device spacing values.
2. Provide a 5' wide temporary pedestrian way with a maximum cross-slope of 0.02, except where space restrictions warrant a minimum width of 4'. Provide a 5' x 5' passing space for temporary pedestrian ways less than 5' in width at intervals not to exceed 200'.
3. When temporary pedestrian ways require curb ramps, meet the requirements of Index 522-002. Detectable warnings are not required for curb ramps diverting pedestrian traffic into a closed lane.
4. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign distances, may be omitted when the work operation will be in place for 24 hours or less.
5. Pedestrian Diversion Option 2 may only be used when called for in the Plans or as approved by an Engineer.

SYMBOLS:

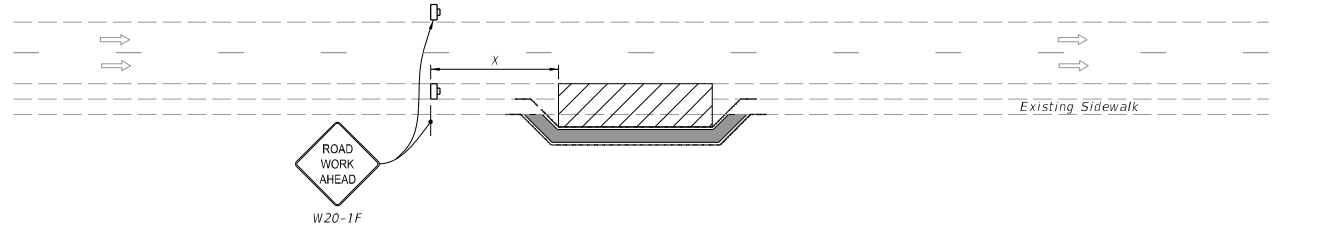
- Work Area
- Temporary Pedestrian Way
- Channelizing Device (See Index 102-600)
- Pedestrian Longitudinal Channelizing Device (LCD)
- Work Zone Sign
- Arrow Board
- Crash Cushion
- Lane Identification and Direction of Traffic



PEDESTRIAN DIVERSION - OPTION 1
(Temporary Barrier Shown, Low Profile Barrier Similar)



PEDESTRIAN DIVERSION - OPTION 2
(Work Zone Speed 35 mph or Less)



PEDESTRIAN SPECIAL DETOUR

LAST REVISION 11/01/21	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	SIDEWALK CLOSURE	INDEX 102-660	SHEET 2 of 2
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 Dan Rose
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GENERAL COMMENT STAMPS

THE FDOT MUST BE NOTIFIED TWO (2) BUSINESS DAYS IN ADVANCE OF STARTING WORK AND THAT NO LANE CLOSURES ARE REQUIRED BY CONTACTING (941)708-4400. FAILURE TO CALL MAY RESULT IN A DELAY TO BEGIN WORK.

IF A LANE CLOSURE IS WITHIN THE PROJECT LIMITS, THE PERMITTEE MUST NOTIFY THE FDOT TWO (2) WEEKS PRIOR TO A LANE CLOSURE TO ALLOW THE FDOT TO INFORM THE MOTORING PUBLIC. FAILURE TO CALL MAY RESULT IN A DELAY TO BEGIN WORK.

LANE CLOSURES AND/OR WORK ACTIVITIES MAY BE RESTRICTED BY THE FDOT DUE TO HEAVY TRAFFIC AND THE POTENTIAL FOR BACKUPS CAUSED BY THESE ACTIVITIES. NIGHT WORK WILL BE REQUIRED AS THE ALTERNATE TIME FOR THESE ACTIVITIES.

THE PERMITTEE IS RESPONSIBLE FOR NOTIFYING OWNERS OF ALL EXISTING AERIAL AND UNDERGROUND UTILITIES OF A PROPOSED DRIVEWAY AND RESOLVING ANY CONFLICTS BEFORE CONSTRUCTION BEGINS.

IN ACCORDANCE WITH FL STATUTE 335.18, THE PERMITTEE SHALL BE REQUIRED TO BEAR THE COST OF FUTURE ACCESS MODIFICATIONS, TRAFFIC CONTROL DEVICES OR OTHER IMPROVEMENTS, WHEN DETERMINED BY THE FDOT TO BE IN CONJUNCTION WITH ACCEPTED ENGINEERING PRACTICES.

ALL LANE CLOSURES, CONSTRUCTION AND MAINTENANCE ACTIVITIES IN FDOT'S RIGHT-OF-WAY SHALL CONFORM TO THE CURRENT FHWA'S MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE CURRENT FDOT'S STANDARD PLANS FOR ROAD CONSTRUCTION.

THE PERMITTEE MUST WAIT AT LEAST FOURTEEN (14) DAYS AFTER CONSTRUCTING THE FINAL ASPHALT SURFACE COURSE TO PLACE THERMOPLASTIC PAVEMENT MARKINGS.

ALL CONTRACTORS/SUBCONTRACTORS OF THE PERMITTEE SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE PERMITTED M.O.T. PLAN.

ALL PORTIONS OF DISTURBED RIGHT-OF-WAY WILL BE SODDED WITHIN SEVENTY-TWO (72) HOURS OF COMPLETION OF WORK.

ALL ABOVE GROUND APPURTENANCES ARE TO BE LOCATED AT FDOT'S RIGHT-OF-WAY LINE.

COMPACTION, DENSITY TESTING AND THEIR REPORTS ARE TO BE COMPLETED, SUBMITTED AND APPROVED BY THE EOR PRIOR TO THE PLACEMENT OF ANY PAVEMENT.

PRIOR TO EXCAVATING, CONTACT THE CLERK OF THE CIRCUIT COURT FOR POSSIBLE GASOLINE CONFLICTS.

THE APPLICANT SHALL NOT, DURING AND AFTER COMPLETION OF PERMITTED CONSTRUCTION, INTRODUCE ANY FORM OR METHOD OF SITE DRAINAGE DISCHARGE INTO THE DRAINAGE FACILITIES ON THE FDOT'S RIGHT-OF-WAY OR EASEMENT. ANY DISCHARGE SHALL BE IN VIOLATION OF THIS PERMIT.

THE PERMITTEE IS CAUTIONED THAT UTILITIES MAY BE LOCATED WITHIN THE CONSTRUCTION AREA.

IT IS THE RESPONSIBILITY OF THE PERMITTEE TO DETERMINE AND COMPLY, IN ADDITION TO FDOT REQUIREMENTS, WITH ALL COUNTY AND MUNICIPAL ORDINANCES THAT ARE RELATIVE TO THE ACTIVITIES DESCRIBED ON THIS PERMIT.

N.P.D.E.S. REQUIRES THAT STORM WATER CONTROL MEASURES BE IMPLEMENTED ON ANY PROJECT ON PUBLIC TRANSPORTATION FACILITY RIGHTS-OF-WAY INCLUDING, BUT NOT LIMITED TO MEASURES DESCRIBED IN THE CURRENT FDOT STANDARD PLANS FOR ROAD CONSTRUCTION.

IF A CONSTRUCTION, RECONSTRUCTION, REPAIR OR MAINTENANCE ACTIVITY NECESSITATES THE CLOSING OF ONE (1) OR MORE TRAVEL LANES OF ANY ROAD ON THE STATE, COUNTY OR CITY ROAD SYSTEMS, FOR A PERIOD OF TIME EXCEEDING TWO (2) HOURS, THE PERMITTEE PERFORMING SUCH WORK WILL BE RESPONSIBLE TO GIVE NOTICE TO THE APPROPRIATE LOCAL LAW ENFORCEMENT AGENCY WITH JURISDICTION OVER SAID ROAD PRIOR TO COMMENCING WORK ON THIS PROJECT.

ADHERE TO ALL INSTRUCTIONS/REQUIREMENTS IN THE CURRENT UTILITY ACCOMODATIONS MANUAL.



FLORIDA DEPARTMENT OF TRANSPORTATION STORMWATER POLLUTION PREVENTION



The Law

The Federal Clean Water Act was established in 1972 to protect our waterways. As a result, the National Pollutant Discharge Elimination System (NPDES) program was developed. The NPDES permit program addresses water pollution by regulating point sources that discharge pollutants to surface waters. The Florida Department of Environmental Protection (FDEP) administers the NPDES program for Municipal Separate Storm Sewer Systems (MS4) and Construction activities.

CONSTRUCTION ACTIVITIES

➤ **Is your construction site regulated?**

Yes, if your construction activity will ultimately disturb one acre or more and has the potential to discharge stormwater to surface waters or into a MS4. Disturbance includes clearing, grading, excavation, and demolition.

➤ **What are you required to do?**

- ✓ Prepare and implement a Stormwater Pollution Prevention Plan (SWPPP)
- ✓ Submit a Notice of Intent (NOI or application) and the appropriate fee to FDEP
- ✓ Submit a Notice of Termination (NOT) to FDEP and to the local MS4 once the site meets the eligibility requirements for termination

For more information on NPDES Stormwater Construction Activities, contact FDEP for more information at (866) 336-6312 or visit <http://www.dep.state.fl.us/water/stormwater/index.htm>.

HOW CAN YOU HELP STOP STORMWATER POLLUTION?

- ✓ Do not pour oil or any chemicals down any storm drain or in the street
- ✓ Use fertilizers and herbicides carefully and only use the recommended amount*
- ✓ Report illicit discharges**
- ✓ Recycle used oil and dispose of chemicals properly. For more information on the proper disposal of wastes contact FDEP at (850) 245-8707 or visit: <http://www.dep.state.fl.us/waste/categories/hwRegulation/>
- ✓ Maintain proper sediment and erosion controls on your construction site



*Contact your County Agricultural Extension Office for answers to your pest and weed problems.				** Illicit Discharges: Report any material other than stormwater being discharged into a storm drain or into the street.	
County Agricultural Extension Office				County / FDOT Environmental Contacts	
Charlotte Co.	(941) 764-4340	Highlands Co.	(863) 402-6540	Charlotte Co.	(941) 575-3632
Collier Co.	(239) 252-4800	Lee Co.	(239) 533-7505	Highlands Co.	(863) 402-6500
DeSoto Co.	(863) 993-4846	Manatee Co.	(941) 722-4524	Lee County	(239) 533-9400
Glades Co.	(863) 946-0244	Okeechobee Co.	(863) 763-6469	Manatee County	(941) 748-4501
Hardee Co.	(863) 773-2164	Polk Co.	(863) 519-8677	Polk County	(863) 534-7377
Hendry Co.	(863) 674-4092	Sarasota Co.	(941) 861-9900	Sarasota County	(941) 861-5000
				FDOT Right of Way	(863) 519-2762
FDOT MAINTENANCE YARDS			SPILL REPORTING	State Watch Office (Spill Report Hotline typically 25 gallons or more)	(800) 320-0519
Arcadia Operations		(863) 993-4634			
Bartow Operations		(863) 519-4100			
Fort Myers Operations		(239) 985-7800			
Labelle Operations		(863) 674-4027			
Manatee Operations		(941) 708-4400			
Sebring Operations		(863) 386-6104			
For more information on NPDES stormwater regulations, please contact, FDOT District Maintenance, at (863) 519-2762					