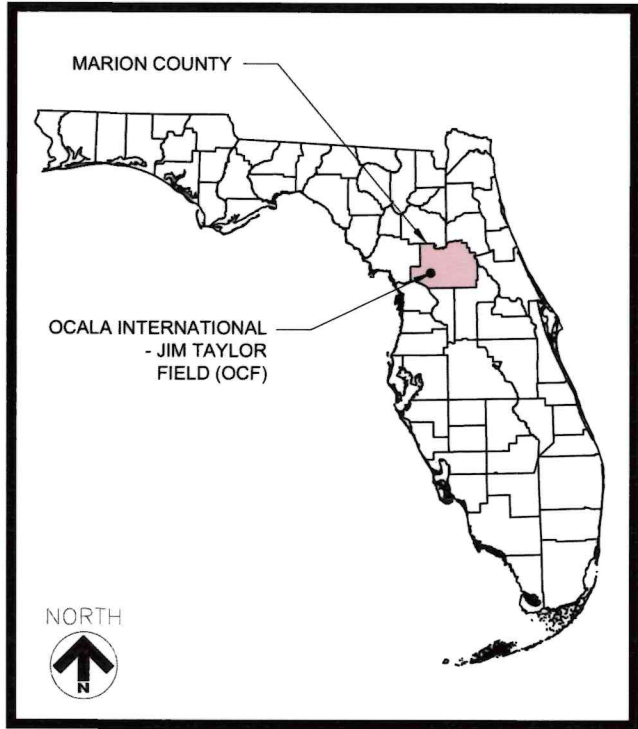
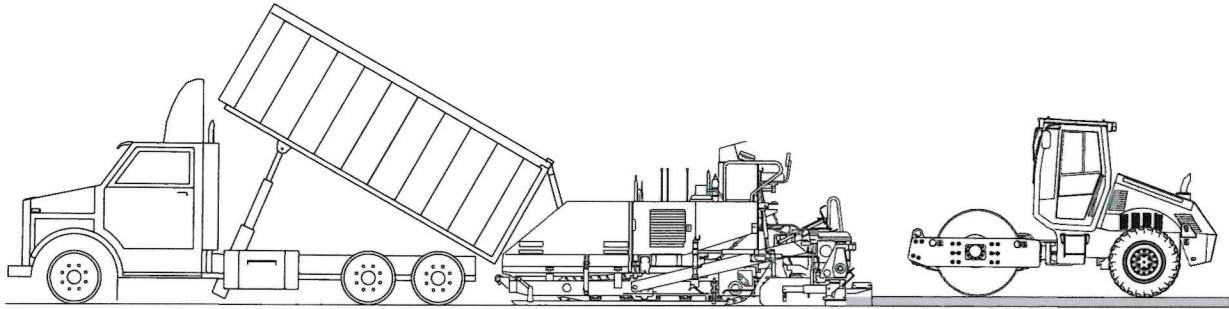
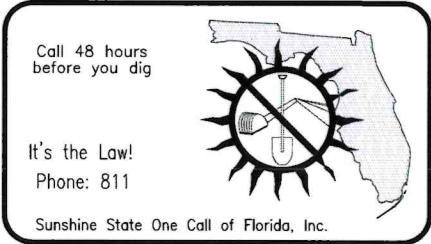


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LOCATION MAP

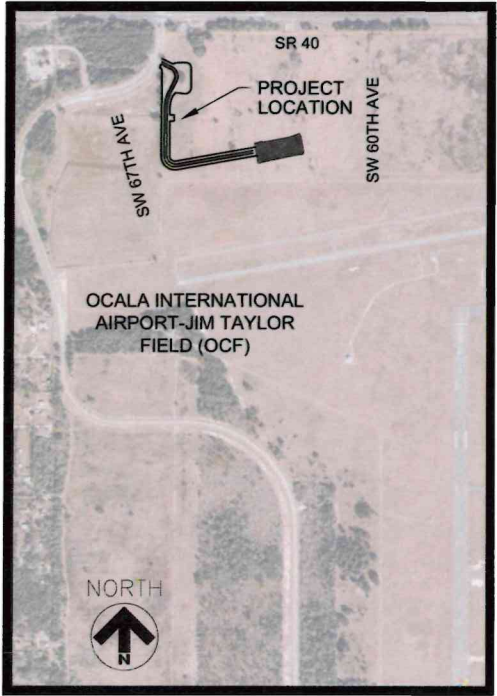
DRAWING INDEX	
DRAWING No.	DESCRIPTION
G0.0	COVER SHEET
G1.1	PROJECT LAYOUT PLAN
G1.2	SITE PLAN
G2.1	GENERAL NOTES
G3.1-G3.5	BORINGS LOGS
C1.1-C1.2	TYPICAL SECTION
C2.0	KEY SHEET
C2.1-C2.5	EXISTING CONDITIONS AND DEMOLITION PLANS
C3.1-C3.5	STAKING AND GEOMETRY PLANS
C4.1-C4.5	DRAINAGE AND GRADING PLANS
C4.6-C4.9	CONSTRUCTION DETAILS
C4.10-C4.11	DRAINAGE DETAILS
C5.1-C5.2	PLAN AND PROFILE PLANS
C6.1-C6.11	CROSS SECTIONS
C7.1	SWPPP PLAN
C7.2	SWPPP NOTES
C8.1	MARKING PLAN
C9.1-C9.3	MARKING DETAILS
C10.1-C10.4	FENCE AND GATE DETAILS
C11.1	PCC PAVEMENT JOINTS LAYOUT



BID DOCUMENTS
MARCH 2024

PREPARED BY:
IE INFRASTRUCTURE
CONSULTING & ENGINEERING
5550 W. IDLEWILD AVENUE, SUITE 115
TAMPA, FL 33634
(813) 330-2701
CERTIFICATE OF AUTHORIZATION NO.: 30862

REVISIONS			
No.	Description	Date	By



VICINITY MAP
N.T.S.

DRAWING INDEX	
DRAWING No.	DESCRIPTION
UP-01	UTILITY PLAN AND PROFILE (SHEET 1 OF 3)
UP-02	UTILITY PLAN AND PROFILE (SHEET 2 OF 3)
UP-03	UTILITY PLAN AND PROFILE (SHEET 3 OF 3)
UP-04	FORCE MAIN PLAN AND PROFILE
UP-05	UTILITY KEY PLAN
UP-06	LIFT STATION PLAN
UP-07	UTILITY DETAILS (SHEET 1 OF 8)
UP-08	UTILITY DETAILS (SHEET 2 OF 8)
UP-09	UTILITY DETAILS (SHEET 3 OF 8)
UP-10	UTILITY DETAILS (SHEET 4 OF 8)
UP-11	UTILITY DETAILS (SHEET 5 OF 8)
UP-12	UTILITY DETAILS (SHEET 6 OF 8)
UP-13	UTILITY DETAILS (SHEET 7 OF 8)
UP-14	UTILITY DETAILS (SHEET 8 OF 8)
UP-15	FDOT STANDARDS DETAILS (SHEET 1 OF 2)
UP-16	FDOT STANDARDS DETAILS (SHEET 2 OF 2)
UP-17	LIFT STATION DETAILS
EL-01	ELECTRICAL SITE PLAN
EL-02	INSTALLATION DETAILS

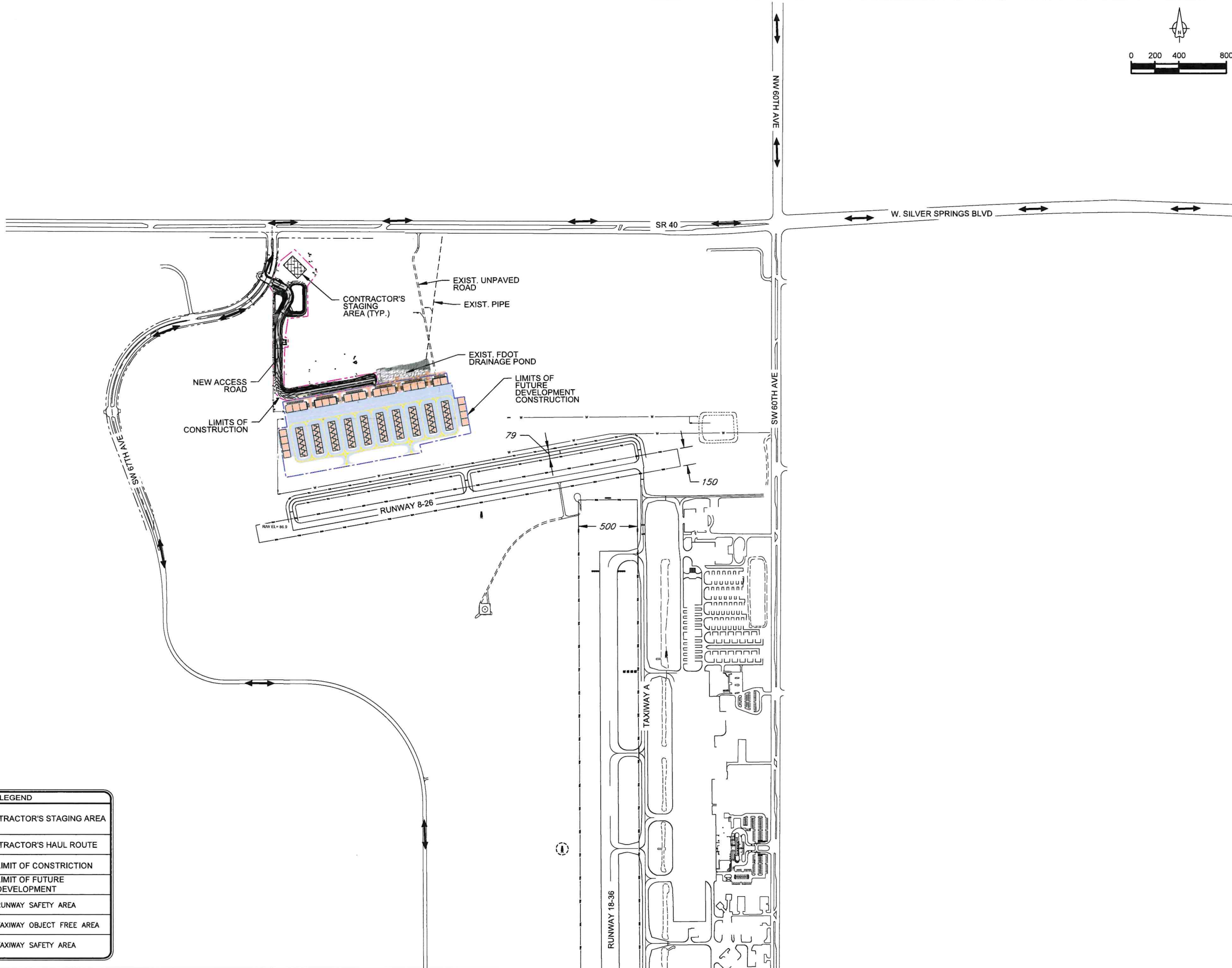
ENGINEER OF RECORD:



PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

NOT FOR CONSTRUCTION

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LEGEND	
	CONTRACTOR'S STAGING AREA
	CONTRACTOR'S HAUL ROUTE
	LIMIT OF CONSTRUCTION
	LIMIT OF FUTURE DEVELOPMENT
	RSA RUNWAY SAFETY AREA
	TOFA TAXIWAY OBJECT FREE AREA
	TSA TAXIWAY SAFETY AREA



Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

Technician:

AM

ICE Project Name:

23-024

Engineer of Record:



NOTES:

REVISIONS			
NO.	DESCRIPTION	DATE	BY

Drawing Name:

PROJECT LAYOUT PLAN

FAA A.I.P. Project No.:

-

FDOT Project No.:

449858-94-01

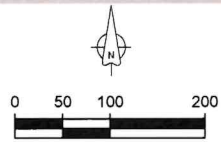
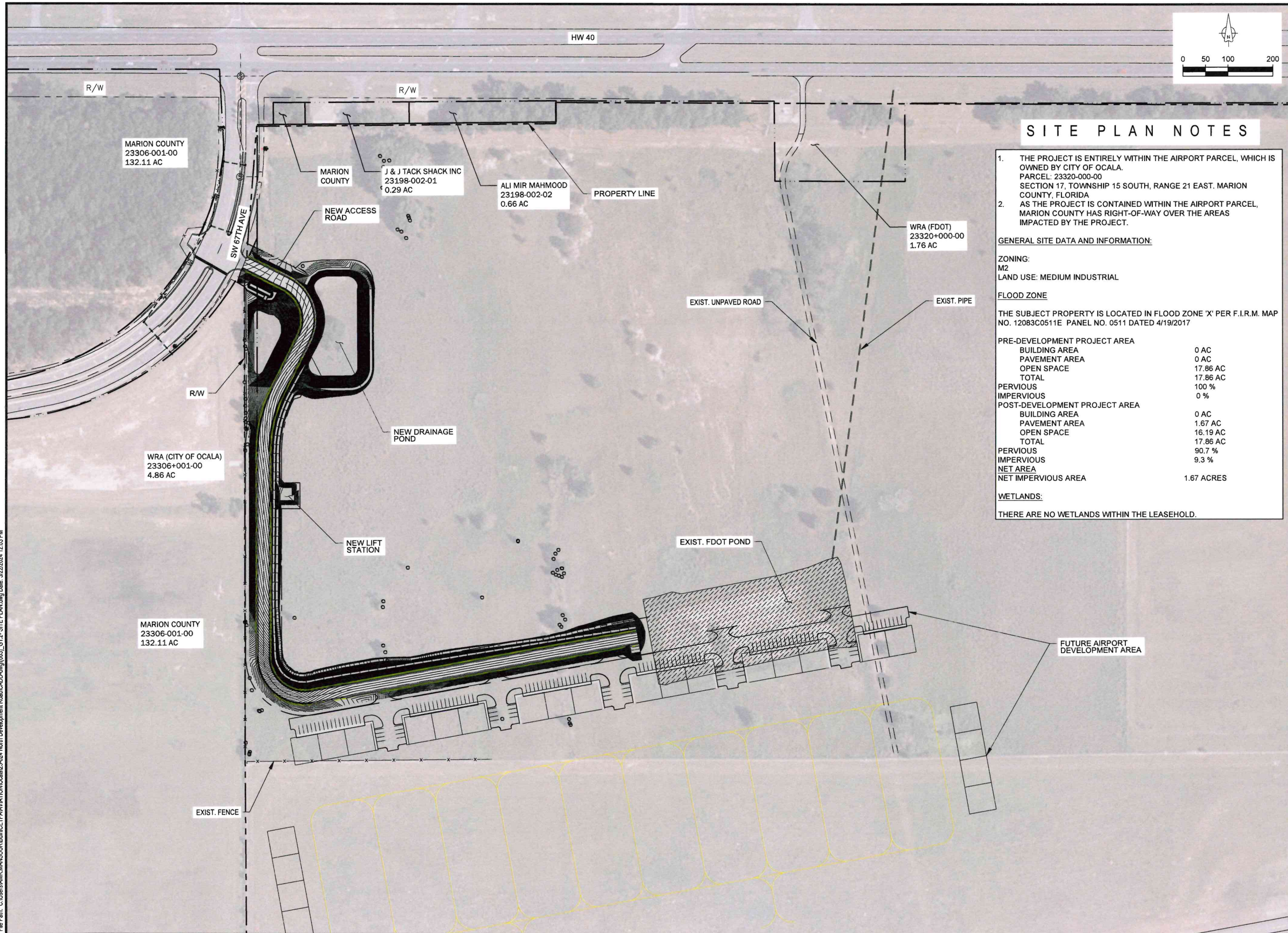
Date:

MARCH 2024

Sheet Number:

G1.1

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SITE PLAN NOTES

1. THE PROJECT IS ENTIRELY WITHIN THE AIRPORT PARCEL, WHICH IS OWNED BY CITY OF OCALA.
PARCEL: 23320-000-00
SECTION 17, TOWNSHIP 15 SOUTH, RANGE 21 EAST, MARION COUNTY, FLORIDA
2. AS THE PROJECT IS CONTAINED WITHIN THE AIRPORT PARCEL, MARION COUNTY HAS RIGHT-OF-WAY OVER THE AREAS IMPACTED BY THE PROJECT.

GENERAL SITE DATA AND INFORMATION:

ZONING:
M2
LAND USE: MEDIUM INDUSTRIAL

FLOOD ZONE

THE SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE 'X' PER F.I.R.M. MAP NO. 12083C0511E PANEL NO. 0511 DATED 4/19/2017

PRE-DEVELOPMENT PROJECT AREA	
BUILDING AREA	0 AC
PAVEMENT AREA	0 AC
OPEN SPACE	17.86 AC
TOTAL	17.86 AC
PERVIOUS	100 %
IMPERVIOUS	0 %
POST-DEVELOPMENT PROJECT AREA	
BUILDING AREA	0 AC
PAVEMENT AREA	1.67 AC
OPEN SPACE	16.19 AC
TOTAL	17.86 AC
PERVIOUS	90.7 %
IMPERVIOUS	9.3 %
NET AREA	
NET IMPERVIOUS AREA	1.67 ACRES

WETLANDS:

THERE ARE NO WETLANDS WITHIN THE LEASEHOLD.



Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

Technician:

AM

ICE Project Name:

23-024

Engineer of Record:



NOTES:

REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

SITE PLAN

FAA A.I.P. Project No.:

FDOT Project No.:

449858-94-01

Date:

MARCH 2024

Sheet Number:

G1.2

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1. CONSTRUCTION STANDARDS SHALL BE IN ACCORDANCE WITH THE FDOT 2023-24 STANDARD PLANS, FDOT GREENBOOK 2018 EDITION AND FDOT STANDARD SPECIFICATIONS (DIVISION II AND III) FOR ROAD AND BRIDGE CONSTRUCTION DATES FY 2023-24, CITY OF OCALA SPECIFICATIONS AS AMENDED BY CONTRACT DOCUMENTS.
2. ALL CONSTRUCTION COVERED IN THESE PLANS SHALL COMPLY WITH THE MATERIAL REQUIREMENTS AND QUALITY CONTROL STANDARDS CONTAINED IN THE CITY OF OCALA STANDARDS SPECIFICATIONS FOR CONSTRUCTION. IN CASE OF CONFLICTS, THE HIERARCHY OF SPECIFICATIONS SHALL BE:
1- CONTRACT DOCUMENTS.
2- FDOT STANDARDS SPECIFICATIONS FOR ROADS AND BRIDGE CONSTRUCTION FY 2023-24 (DIVISION II AND III), FDOT 2023-24 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION.
3. ALL WORK MUST BE CONDUCTED OUTSIDE THE AOA FENCE. IF ANY WORK IS REQUIRED INSIDE THE AOA FENCE ESCORT SHALL BE REQUIRED.
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE CLEANUP AND DISPOSAL OF ALL TRASH AND DEBRIS CREATED BY HIS WORK OR PERSONNEL. NO BURNING IS ALLOWED ON SITE. ALL TRASH AND DEBRIS MUST BE DISPOSED OF OFFSITE.
5. THE CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS FOR ASPHALT AND OR CONCRETE BATCH PLANT LOCATIONS WHICH MUST BE LOCATED OFF AIRPORT PROPERTY.
6. THE CONTRACTOR SHALL VISIT SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. THE CONTRACTOR SHALL REPORT TO THE ENGINEER ANY VARIATIONS FROM THE INFORMATION SHOWN ON THE CONSTRUCTION PLANS.
7. APPROVED CUTS IN PAVEMENT OR CONCRETE SHALL BE MADE USING A PAVEMENT SAW, AND SHALL BE PATCHED TO MATCH THE EXISTING SURFACE IN A MANNER APPROVED BY THE ENGINEER.
8. EXISTING EASEMENTS TO OTHER PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
9. AIRFIELD PAVEMENTS SHALL BE KEPT FREE OF ALL DEBRIS, DIRT, ETC., AT ALL TIMES. ANY SPILLAGE OF EXCAVATION OR OTHER MATERIAL SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR WITH A MOTOR DRIVEN SWEEPER OR VACUUM AS REQUIRED BY THE ENGINEER. A PROGRAM OF REGULAR AIRFIELD PAVEMENT INSPECTION WILL BE PLANNED BY THE CONTRACTOR, AIRPORT OPERATIONS AND THE OWNER'S REPRESENTATIVE. SWEEPERS ARE TO BE EQUIPPED WITH NON-METALLIC BROOMS.
10. ALL NON-PAVED AREAS OUTSIDE THE LIMITS OF CONSTRUCTION WHICH ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS, SUCH AS THE CONTRACTOR'S ACCESS ROAD, STAGING AREA, HAUL ROUTES, ETC., SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND SODDING AT THE CONTRACTOR'S EXPENSE PER FDOT SPEC 570 UPON COMPLETION OF THE PROJECT.
11. ANY DAMAGES DONE TO AIRPORT PROPERTY OR UTILITIES (SUCH AS RUNWAY, TAXIWAYS, APRONS, FENCING, EXISTING CABLES) WILL BE REPAIRED BY THE CONTRACTOR TO THE APPROVAL OF THE OWNER OF THE FACILITY IN A SATISFACTORY MANNER. THE CONTRACTOR WILL BEAR ALL COSTS FOR REPAIRS.
12. THE CONTRACTOR SHALL MAINTAIN SECURITY WITHIN THE PROJECT SITE AT ALL TIMES. NO UNAUTHORIZED PERSONNEL SHALL BE ALLOWED ON THE SITE.
13. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS NECESSARY FOR THE COMPLETION OF THIS PROJECT.
14. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL ENVIRONMENTAL RULES AND REGULATIONS OF THE CITY, COUNTY, STATE, ARMY CORPS OF ENGINEERS, AND ANY OTHER JURISDICTIONAL AGENCIES, AND ALL CONDITIONS SET FORTH IN ENVIRONMENTAL PERMITS.
15. ALL DISPUTES ARISING FROM THE CONTRACTOR SHALL BE DECIDED BY THE ENGINEER, WHOSE DECISION SHALL BE FINAL.
16. ALL DEMOLISHED MATERIALS BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SHOWN IN THE CONTRACT DOCUMENTS. CONSTRUCTION AND DEMOLITION DEBRIS SHALL BE LEGALLY DISPOSED OF OFF AIRPORT PROPERTY.
17. THE CONTRACTOR SHALL KEEP A WATER TRUCK ONSITE AT ALL TIMES FOR THE PURPOSE OF CONTROLLING DUST AS REQUIRED BY THE CONTRACT DOCUMENTS.

HAUL ROUTE / STAGING

18. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE STORAGE AND SECURITY OF HIS MATERIAL AND EQUIPMENT AND SHALL ERECT STORAGE FACILITIES AND FENCING AS NECESSARY. THE CONTRACTOR'S STORAGE AND STAGING AREA SHALL BE IN THE LOCATION SHOWN ON DRAWING G1.1.
19. THE CONTRACTOR'S STAGING AREA(S) AND HAUL ROUTES SHOWN ON THE PLANS ARE GENERAL AND FOR INFORMATIONAL PURPOSES ONLY. THE ACTUAL SIZE AND LOCATION OF STAGING AREAS AND HAUL ROUTES WILL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION.
20. CONTRACTOR WILL NOT BE ALLOWED TO USE ANY OF THE EXISTING RUNWAYS OR TAXIWAYS AS PART OF THE HAUL ROAD UNLESS SPECIFICALLY AUTHORIZED BY THE OWNER'S REPRESENTATIVE. UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR CROSS ANY RUNWAY AT ANY TIME WITH CONSTRUCTION VEHICLES OR EQUIPMENT.
21. THE EXISTING PAVEMENTS ACCESS ROADS AND HAUL ROUTES MAY NOT BE CAPABLE OF SUPPORTING CERTAIN TYPES OF CONSTRUCTION EQUIPMENT. PRIOR TO BIDDING, THE CONTRACTOR SHALL FULLY SATISFY HIMSELF AS TO THE ABILITY OF THE EXISTING AIRPORT PAVEMENTS TO SATISFACTORILY SUSTAIN THE TYPE OF EQUIPMENT HE PLANS TO USE. CONTRACTOR SHALL SIZE THE EQUIPMENT USED FOR CONSTRUCTION ACCORDINGLY. ANY DAMAGE CAUSED BY HAULING OR ANY OTHER CONSTRUCTION ACTIVITY TO EXISTING PAVEMENT SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

22. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING ALL PERMANENT AND TEMPORARY UTILITY CONNECTIONS TO THE STAGING AREA.

QUALITY CONTROL NOTES

23. CONTRACTOR SHALL BE REQUIRED TO SUBMIT A QUALITY CONTROL PLAN FOR ALL WORK ITEMS THAT REQUIRE QUALITY CONTROL, QUALITY ASSURANCE, MATERIAL VERIFICATION, DENSITY TESTS, AND ALL FIELD AND LABORATORY TESTS REQUIRED BY THE CONTRACT SPECIFICATIONS. CONTRACTOR SHALL PROVIDE FULL QUALITY CONTROL TESTING BY CERTIFIED FIRMS/INDIVIDUALS.
24. WITHIN 10 DAYS OF NOTIFICATION OF INTENT TO AWARD, THE CONTRACTOR SHALL SUBMIT THREE (3) COPIES OF A WRITTEN QUALITY CONTROL PLAN. THE CONTRACTOR SHALL DESIGNATE A QUALITY CONTROL OFFICER RESPONSIBLE FOR THE QUALITY OF CONSTRUCTION AND SHALL INCLUDE AN ORGANIZATIONAL CHART DESIGNATING QUALITY CONTROL RESPONSIBILITIES. THE PLAN SHALL ENCOMPASS A PROGRAM OF QUALITY CONTROL ACTIVITIES FOR THE PROJECT AS A WHOLE, AS WELL AS SPECIFIED PROCEDURES FOR EACH ELEMENT OF WORK.
25. FOR EACH MAJOR ELEMENT OF WORK, THE CONTRACTOR SHALL DESCRIBE IN THE QUALITY CONTROL PLAN PRELIMINARY INSPECTION PROCEDURES TO BE ACCOMPLISHED PRIOR TO START UP, PROGRESS INSPECTION PROCEDURES TO MONITOR THE WORK IN PROGRESS, AS WELL AS FINAL INSPECTIONS TO VERIFY ALL TESTS HAVE BEEN PERFORMED AND ARE PASSING, AND ALL CONDITIONS OF THE SPECIFICATIONS HAVE BEEN MET.
26. THE CONTRACTOR SHALL BEAR THE COST OF, AND BE RESPONSIBLE FOR ALL "QUALITY CONTROL". OWNER WILL PROVIDE "QUALITY ASSURANCE" TESTING.

PERMITS REQUIRED

REQUIRED PERMITS FOR THIS PROJECT BUT NOT LIMITED TO ARE AS FOLLOWS:

- FEDERAL AVIATION ADMINISTRATION 7460-1 PERMIT
- FDEP NOTICE OF INTENT
- SWFWMD PERMIT
- GOPHER TORTOISE RELOCATION

PAVEMENT MARKINGS

1. PAVEMENT SURFACE SHALL BE DRY, NO FOG, RAIN, OR DRIZZLE.
2. WIND VELOCITY SHOULD NOT AFFECT UNIFORM APPLICATION.
3. CONTRACTOR TO ACCOUNT FOR WIND DRIFT, COVER EXISTING NEAR BUILDINGS, STRUCTURES, ALL NECESSARY LIGHTS AND IN-PAVEMENT MARKERS.
4. CEASE APPLICATION WHEN EXCESSIVE DUST OR SAND IS BLOWING.
5. CEASE APPLICATION WHEN RAIN IS ANTICIPATED WITHIN EIGHT (8) HOURS OF APPLICATION COMPLETION.
6. THE ATMOSPHERIC TEMPERATURE AND THE PAVEMENT SURFACE TEMPERATURE SHALL BOTH BE ABOVE 60F AND RISING.

SURVEY

1. DATE OF FIELD SURVEY: MARCH 23, 2023 BY R.M. BARRINEAU AND ASSOCIATES.
2. SUBJECT TO RIGHTS OF WAY, RESTRICTIONS, EASEMENTS AND RESERVATIONS OF RECORD.
3. UNLESS OTHERWISE SHOWN, UNDERGROUND IMPROVEMENTS NOT LOCATED.
4. PUBLIC RECORDS NOT SEARCHED BY R.M. BARRINEAU & ASSOCIATES, INC.
5. BEARINGS AND STATE PLANE COORDINATES DEPICTED HEREON ARE GRID, WEST FLORIDA ZONE, NAD-83 (CORS96) EPOCH:2002.0000), BASED ON TRIMBLE VIRTUAL REFERENCE STATION NETWORK AND REFERENCED TO CITY OF OCALA ENGINEERING DEPARTMENT CONTROL POINT 0011.
6. VERTICAL DATUM BASED ON CITY OF OCALA ENGINEERING DEPARTMENT CONTROL POINT 0011WITH AN ELEVATION OF 85.20', NAVD-88.
7. ORIENTATION FOR THE IMPROVEMENTS SHOWN HEREON SHOULD NOT BE USED TO RECONSTRUCT BOUNDARY LINES.
8. ADDITIONS OR DELETIONS TO SURVEY MAPS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
9. THIS SURVEY DEPICTS THE PROPERTY AS IT EXISTED ON THE SURVEY DATE, NOT NECESSARILY THE SIGNATURE DATE.
10. THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE BENEFIT OF THE PARTY(IES) NAMED HEREON, AND SHALL NOT BE DUPLICATED OR RELIED UPON BY ANY OTHER INDIVIDUAL OR ENTITY WITHOUT AUTHORIZATION FROM R.M. BARRINEAU & ASSOCIATES, INC.

BURIED UTILITIES

36. PRIOR TO DIGGING ANY TRENCHES, THE CONTRACTOR SHALL NOTIFY ALL UTILITIES (ELECTRIC, GAS, TELEPHONE, WATER, SEWER) AND OBTAIN LOCATIONS OF UNDERGROUND UTILITIES.
37. CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND IDENTIFICATION OF ALL EXISTING UTILITIES AND UNDERGROUND PIPELINES IN CONSTRUCTION AREA. ANY DAMAGES TO EXISTING UTILITIES OR UNDERGROUND PIPELINES ON OR OFF AIRPORT PROPERTY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL REPAIR WORK SHALL MEET THE APPROVAL OF THE OWNER OF THE DAMAGED UTILITY. NO REIMBURSEMENT WILL BE ALLOWED FOR UTILITY/PIPE REPAIR OR REPLACEMENT.
38. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES, AIRFIELD LIGHTING AND NAVAIDS NOT CALLED OUT TO BE REMOVED OR ABANDONED. ANY DAMAGES DONE TO AIRPORT PROPERTY OR UTILITIES (INCLUDING, BUT NOT LIMITED TO RUNWAYS, TAXIWAYS, APRONS, FENCING, EXISTING CABLES, LIGHTING, SIGNS, NAVAIDS) WILL BE REPAIRED BY THE CONTRACTOR TO THE APPROVAL OF THE OWNER OF THE FACILITY IN A SATISFACTORY MANNER. THE CONTRACTOR WILL BEAR ALL COSTS FOR REPAIRS.
39. ANY UNPLANNED, UNAPPROVED, OR ACCIDENTAL SHUTDOWN OR INTERRUPTION OF SERVICE TO ANY LIGHTING CIRCUIT OR NAVIGATIONAL AID REQUIRES IMMEDIATE NOTIFICATION OF AIRPORT OPERATIONS AND THE OWNER'S REPRESENTATIVE BY THE CONTRACTOR. THE COST OF MATERIALS AND LABOR REQUIRED TO REPAIR THE LIGHTING CIRCUIT SHALL BE BORNE BY THE CONTRACTOR.



Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

Technician:

AM

ICE Project Name:

23-024

Engineer of Record:



NOTES:

REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

GENERAL NOTES

FAA A.I.P. Project No.:

-

FDOT Project No.:


449858-94-01

Date:

MARCH 2024

Sheet Number:

G2.1



Cal-Tech Testing, Inc.
3309 SR 247
Lake City, FL 32024
Telephone: 386-755-3633
Fax: 386-755-3633

BORING NUMBER B1

PAGE 1 OF 1

CLIENT Infrastructure Consulting & Engineering

PROJECT NUMBER 23-00114-01

DATE STARTED 3/30/23 COMPLETED 3/30/23

DRILLING CONTRACTOR Cal-Tech Testing, Inc.

DRILLING METHOD SPT

LOGGED BY B.S. CHECKED BY I.M.

NOTES Elev. referred to ground surface

PROJECT NAME Ocala Int'l Airport-Northwest Access Road

PROJECT LOCATION Ocala, Florida

GROUND ELEVATION 0 ft HOLE SIZE 2-in dia. x 10 ft. depth

GROUND WATER LEVELS:

AT TIME OF DRILLING —

AT END OF DRILLING — Not encountered

AFTER DRILLING —

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA				REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	RECOVERY (%) (ROD) %	BLOW COUNTS (N VALUE)	
	(SP) Yellowish brown SAND		1	1	SS	67	1-5-5-5 (10)	Boring Location Coordinates: N29°11'05.7" W82°13'54.0" SS=Split Spoon sampler
	(SP) Reddish yellow SAND		2	2	SS	67	3-3-2-4 (5)	
			4	3	SS	67	1-1-2-2 (3)	
			6	4	SS	71	1-1-2-1 (3)	
			8	5	SS	63	1-1-2-5 (3)	
-10	(SM) Reddish yellow SILTY SAND		10					
	Bottom of borehole at 10.0 feet.							

Cal-Tech Testing, Inc. 3309 SR 247 Lake City, FL 32024 Telephone: 386-755-3633 Fax: 386-755-3633			<h1 style="margin: 0;">BORING NUMBER B2</h1> <p>PAGE 1 OF 1</p>				
CLIENT Infrastructure Consulting & Engineering			PROJECT NAME Ocala Int'l Airport-Northwest Access Road				
PROJECT NUMBER 23-00114-01			PROJECT LOCATION Ocala, Florida				
DATE STARTED 3/30/23 COMPLETED 3/30/23			GROUND ELEVATION 0 ft HOLE SIZE 2-in dia. x 10 ft. depth				
DILLING CONTRACTOR Cal-Tech Testing, Inc.			GROUND WATER LEVELS:				
DILLING METHOD SPT			AT TIME OF DILLING --				
LOGGED BY B.S. CHECKED BY J.M.			AT END OF DILLING -- Not encountered				
NOTES Elev. referred to ground surface			AFTER DILLING --				
ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA			REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	BLOW COUNTS (N VALUE)	
	(SP) Reddish brown SAND		1	SS	63	1-2-2-2 (4)	Boring Location Coordinates: N29°10'57.3" W82°13'54.2" SS=Split Spoon sampler
-5	(SP) Yellowish red DSAND		2	SS	67	1-1-1-1 (2)	
			3	SS	63	1-3-5-9 (8)	
	(SM) Gray and yellowish red SILTY SAND		4	SS	67	12-12-18- 16 (30)	
-10			5	SS	71	20-22-22- 21 (44)	
Bottom of borehole at 10.0 feet.							

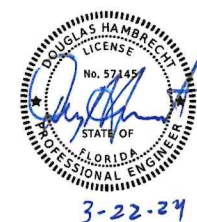


Project Name:	
NORTH DEVELOPMENT ROAD	
Designer: MA	Checked By: TL
Technician: AM	ICE Project Name: 23-024
Engineer of Record:	


[illegible]

Drawing Name:	
GENERAL NOTES	
FAA A.I.P. Project No.: --	
FDOT Project No.: 449858-94-01	
Date:	Sheet Number:
MARCH 2024	G2.1

Project Name:	
NORTH DEVELOPMENT ROAD	
Designer: MA	Checked By: TL
Technician: AM	ICE Project Name: 23-024
Engineer of Record:	

[illegible]

Drawing Name:	
GENERAL NOTES	
FAA A.I.P. Project No.:	
-	
FDOT Project No.:	
449858-94-01	
Date:	Sheet Number:
MARCH 2024	G2.1



Cal-Tech Testing, Inc.
3309 SR 247
Lake City, FL 32024
Telephone: 386-755-3633
Fax: 386-755-3633

BORING NUMBER B3

PAGE 1 OF 1

CLIENT Infrastructure Consulting & Engineering

PROJECT NUMBER 23-00114-01

DATE STARTED 3/30/23 COMPLETED 3/30/23

DRILLING CONTRACTOR Cal-Tech Testing, Inc.

DRILLING METHOD SPT

LOGGED BY B.S. CHECKED BY I.M.

NOTES Elev. referred to ground surface

PROJECT NAME Ocala Int'l Airport-Northwest Access Road

PROJECT LOCATION Ocala, Florida


GROUND ELEVATION 0 ft HOLE SIZE 2-in dia. x 10 ft. depth

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING --- Not encountered

AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA			REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	BLOW COUNTS (N VALUE)	
-5	(SP) Yellowish red SAND		1	SS	58	1-1-2-2 (3)	Boring Location Coordinates: N29°10'58.5" W82°13'45.1" SS=Split Spoon sampler
			2				
			2	SS	67	1-2-1-1 (3)	
			3	SS	71	1-1-1-2 (2)	
			4	SS	75	1-2-1-1 (3)	
-10			5	SS	75	1-2-2-2 (4)	
Bottom of borehole at 10.0 feet.							

386-755-3633

386-755-3633

3309 SR 247

Lake City, FL 32024

Cal-Tech Testing, Inc.

BORING NUMBER B3

PAGE 1 OF 1

CLIENT Infrastructure Consulting & Engineering

PROJECT NUMBER 23-00114-01

DATE STARTED 3/30/23 COMPLETED 3/30/23

DRILLING CONTRACTOR Cal-Tech Testing, Inc.

DRILLING METHOD SPT

LOGGED BY B.S. CHECKED BY I.M.

NOTES Elev. referred to ground surface

PROJECT NAME Ocala Int'l Airport-Northwest Access Road

PROJECT LOCATION Ocala, Florida


GROUND ELEVATION 0 ft HOLE SIZE 2-in dia. x 10 ft. depth

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING --- Not encountered

AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA			REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	BLOW COUNTS (N VALUE)	
-5	(SP) Yellowish red SAND		1	SS	58	1-1-2-2 (3)	Boring Location Coordinates: N29°10'58.5" W82°13'45.1" SS=Split Spoon sampler
			2				
			2	SS	67	1-2-1-1 (3)	
			3	SS	71	1-1-1-2 (2)	
			4	SS	75	1-2-1-1 (3)	
-10			5	SS	75	1-2-2-2 (4)	
Bottom of borehole at 10.0 feet.							

386-755-3633

386-755-3633

3309 SR 247

Lake City, FL 32024

Cal-Tech Testing, Inc.

BORING NUMBER B3

PAGE 1 OF 1

CLIENT Infrastructure Consulting & Engineering

PROJECT NUMBER 23-00114-01

DATE STARTED 3/30/23 COMPLETED 3/30/23

DRILLING CONTRACTOR Cal-Tech Testing, Inc.

DRILLING METHOD SPT

LOGGED BY B.S. CHECKED BY I.M.

NOTES Elev. referred to ground surface

PROJECT NAME Ocala Int'l Airport-Northwest Access Road

PROJECT LOCATION Ocala, Florida


GROUND ELEVATION 0 ft HOLE SIZE 2-in dia. x 10 ft. depth

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING --- Not encountered

AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA			REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	BLOW COUNTS (N VALUE)	
-5	(SP) Yellowish red SAND		1	SS	58	1-1-2-2 (3)	Boring Location Coordinates: N29°10'58.5" W82°13'45.1" SS=Split Spoon sampler
			2				
			2	SS	67	1-2-1-1 (3)	
			3	SS	71	1-1-1-2 (2)	
			4	SS	75	1-2-1-1 (3)	
-10			5	SS	75	1-2-2-2 (4)	
Bottom of borehole at 10.0 feet.							

386-755-3633

386-755-3633

3309 SR 247

Lake City, FL 32024

Cal-Tech Testing, Inc.

BORING NUMBER B3

PAGE 1 OF 1

CLIENT Infrastructure Consulting & Engineering

PROJECT NUMBER 23-00114-01

DATE STARTED 3/30/23 COMPLETED 3/30/23

DRILLING CONTRACTOR Cal-Tech Testing, Inc.

DRILLING METHOD SPT

LOGGED BY B.S. CHECKED BY I.M.

NOTES Elev. referred to ground surface

PROJECT NAME Ocala Int'l Airport-Northwest Access Road

PROJECT LOCATION Ocala, Florida

GROUND ELEVATION 0 ft HOLE SIZE 2-in dia. x 10 ft. depth

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING --- Not encountered

AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA			REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
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GEOTECH BH COLUMNS - DATA ENTRY LATEST UPDATE.GDT - 4/3/23 15:30 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\UCALA INTERNATIONAL AIRPORT-NORTHWEST ACCESS ROAD & FUTURE DEVELOPMENT, OCALA, FLORIDA.GPJ

Cal-Tech Testing, Inc.
3309 SR 247
Lake City, FL 32024
Telephone: 386-755-3633
Fax: 386-755-3633

BORING NUMBER B4
PAGE 1 OF 1

CLIENT Infrastructure Consulting & Engineering
PROJECT NUMBER 23-00114-01
DATE STARTED 3/30/23 **COMPLETED** 3/30/23
DRILLING CONTRACTOR Cal-Tech Testing, Inc.
DRILLING METHOD SPT
LOGGED BY B.S. **CHECKED BY** I.M.
NOTES Elev. referred to ground surface

PROJECT NAME Ocala Int'l Airport-Northwest Access Road
PROJECT LOCATION Ocala, Florida
GROUND ELEVATION 0 ft **HOLE SIZE** 2-in dia. x 5 ft. depth
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING --- Not encountered
AFTER DRILLING ---

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA			REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	BLOW COUNTS (N VALUE)	
0	(SP) Yellowish red SAND		1	1	SS	58	Boring Location Coordinates: N29°10'59.9" W82°13'43.6" SS=Split Spoon sampler
			2				
			4	2	SS	67	
				3	SS	83	
	Bottom of borehole at 5.0 feet.						



PAGE 1 OF 1

CLIENT <u>Infrastructure Consulting & Engineering</u>	PROJECT NAME <u>Ocala Int'l Airport-Northwest Access Road</u>
PROJECT NUMBER <u>23-00114-01</u>	PROJECT LOCATION <u>Ocala, Florida</u>
DATE STARTED <u>3/30/23</u> COMPLETED <u>3/30/23</u>	GROUND ELEVATION <u>0 ft</u> HOLE SIZE <u>2-in dia. x 5 ft. depth</u>
DRILLING CONTRACTOR <u>Cal-Tech Testing, Inc.</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>SPT</u>	AT TIME OF DRILLING <u>—</u>
LOGGED BY <u>B.S.</u> CHECKED BY <u>I.M.</u>	AT END OF DRILLING <u>— Not encountered</u>
NOTES <u>Elev. referred to ground surface</u>	AFTER DRILLING <u>—</u>

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA			REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	RECOVERY (%) (ROD) %	
	(SP) Reddish brown SAND		1	SS	58	1-1-3-2 (4)	Boring Location Coordinates: N29°10'59.1" W82°13'47.5" SS=Split Spoon sampler
			2				
	(SP) Reddish yellow SAND		2	SS	63	1-2-1-2 (3)	
			4				
			3	SS	50	1-1	

Bottom of borehole at 5.0 feet.



PAGE 1 OF 1

CLIENT <u>Infrastructure Consulting & Engineering</u>	PROJECT NAME <u>Ocala Int'l Airport-Northwest Access Road</u>
PROJECT NUMBER <u>23-00114-01</u>	PROJECT LOCATION <u>Ocala, Florida</u>
DATE STARTED <u>3/30/23</u> COMPLETED <u>3/30/23</u>	GROUND ELEVATION <u>0 ft</u> HOLE SIZE <u>2-in dia. x 5 ft. depth</u>
DRILLING CONTRACTOR <u>Cal-Tech Testing, Inc.</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>SPT</u>	AT TIME OF DRILLING <u>--</u>
LOGGED BY <u>B.S.</u> CHECKED BY <u>J.M.</u>	AT END OF DRILLING <u>-- Not encountered</u>
NOTES <u>Elev. referred to ground surface</u>	AFTER DRILLING <u>--</u>

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL	LOG	DEPTH SCALE (ft)	SAMPLE DATA				REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
					NUMBER	TYPE	RECOVERY (%) (ROD) %	BLOWS COUNT (N VALUE)	
-5	(SP) Yellowish red SAND			2	1	SS	63	1-2-4-3 (6)	Boring Location Coordinates: N29°10'59.0" W82°13'49.5" SS=Split Spoon sampler
				2	2	SS	67	2-2-2-2 (4)	
				4	3	SS	83	1-1	

Bottom of borehole at 5.0 feet.



INFRASTRUCTURE
CONSULTING & ENGINEERING
5550 WEST IDLEWILD AVE., SUITE 115
TAMPA, FLORIDA 33634 (813) 330-2700
CERTIFICATE OF AUTHORIZATION NO.: 30

Project Name:

NORTH
DEVELOPMENT
ROAD

Designer: MA	Checked By: TL
Technician: AM	ICE Project N 23-02

Engineer of Record:



NOTES:

REVISIONS

[illegible]

Drawing Name:

GENERAL NOTES


FAA A.I.P. Project No.

FDOT Project No.:

449858-94-01

Date:	Sheet Number
MARCH 2024	G2.

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Cal-Tech Testing, Inc.
3309 SR 247
Lake City, FL 32024
Telephone: 386-755-3633
Fax: 386-755-3633

BORING NUMBER B7

PAGE 1 OF 1

CLIENT Infrastructure Consulting & Engineering

PROJECT NAME Ocala Int'l Airport-Northwest Access Road

PROJECT NUMBER 23-00114-01

PROJECT LOCATION Ocala, Florida

DATE STARTED 3/30/23

COMPLETED 3/30/23

GROUND ELEVATION 0 ft

HOLE SIZE 2-in dia. x 5 ft. depth

DRILLING CONTRACTOR Cal-Tech Testing, Inc.

GROUND WATER LEVELS:

DRILLING METHOD SPT

AT TIME OF DRILLING --

LOGGED BY B.S.

CHECKED BY I.M.


AT END OF DRILLING -- Not encountered

NOTES Elev. referred to ground surface

AFTER DRILLING --

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA				REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	RECOVERY (%) (ROD) %	BLOW COUNTS (N VALUE)	
	(SP) Yellowish red SAND			1	SS	42	1-1-1-1 (2)	Boring Location Coordinates: N29°11'0.2" W82°13'51.4" SS=Split Spoon sampler
			2					
			2	SS	63	1-1-1-1 (2)		
			4					
				3	SS	92	1-1	
-5	Bottom of borehole at 5.0 feet.							

GEOTECH BH COLUMNS - DATA ENTRY LATEST UPDATE.GDT - 4/3/23 15:30 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\OCALA INTERNATIONAL AIRPORT-NORTHWEST ACCESS ROAD & FUTURE DEVELOPMENT, OCALA, FLORIDA.GPJ



Cal-Tech Testing, Inc.
3309 SR 247
Lake City, FL 32024
Telephone: 386-755-3633
Fax: 386-755-3633

BORING NUMBER B8

PAGE 1 OF 1

CLIENT Infrastructure Consulting & Engineering

PROJECT NAME Ocala Int'l Airport-Northwest Access Road

PROJECT NUMBER 23-00114-01

PROJECT LOCATION Ocala, Florida

DATE STARTED 3/30/23

COMPLETED 3/30/23

GROUND ELEVATION 0 ft

HOLE SIZE 2-in dia. x 5 ft. depth

DRILLING CONTRACTOR Cal-Tech Testing, Inc.

GROUND WATER LEVELS:

DRILLING METHOD SPT

AT TIME OF DRILLING --

LOGGED BY B.S.

CHECKED BY I.M.

AT END OF DRILLING -- Not encountered

NOTES Elev. referred to ground surface

AFTER DRILLING --

ELEV. (ft)	MATERIAL DESCRIPTION	SYMBOL LOG	DEPTH SCALE (ft)	SAMPLE DATA				REMARKS (DRILLING FLUID, DEPTH OF CASING, FLUID LOSS, DRILLING RESISTANCE, ETC.)
				NUMBER	TYPE	RECOVERY (%) (ROD) %	BLOW COUNTS (N VALUE)	
	(SP) Yellowish red SAND			1	SS	67	1-3-3-4 (6)	Boring Location Coordinates: N29°11'7.7" W82°13'53.9" SS=Split Spoon sampler
			2					
			2	SS	71	2-2-1-2 (3)		
			4					
				3	SS	58	1-1	
-5	Bottom of borehole at 5.0 feet.							



Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

Technician:

AM

ICE Project Name:

23-024

Engineer of Record:



NOTES:

REVISIONS			
NO.	DESCRIPTION	DATE	BY

Drawing Name:

GENERAL NOTES

FAA A.I.P. Project No.:

FDOT Project No.:

449858-94-01

Date:

MARCH 2024

Sheet Number:

G2.1

[illegible]

Project Name:

NORTH
DEVELOPMENT
ROAD

Designer: MA

Checked By:	TI
-------------	----

Technician: AM

ICE Project Name:
23-024

Engineer of Record:



NOTES:

REVISIONS

[illegible]

Drawing Name:

GENERAL NOTES

FAA A.I.P. Project No.:

FDOT Project No.:

449858-94-01

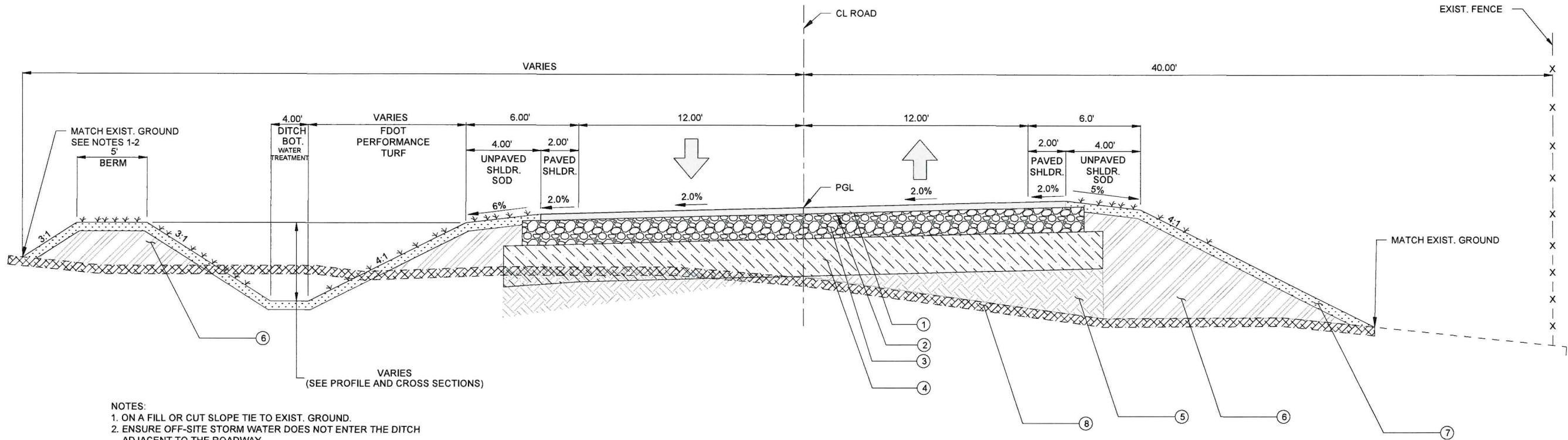
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MARCH 2024

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TYPICAL ACCESS ROAD SECTION

N.T.S.
STATION 0+60 TO STATION 19+40
DESIGN SPEED: 25 MPH

PAVEMENT SECTIONS LEGEND	
①	2" SP 12.5 ASPHALT SURFACE COURSE
②	PRIME COAT, WITH SAND APPLICATION, FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION. APPLIED AT A MIN. RATE OF 0.1 GALLON PER SQUARE YARD
③	8" LIMEROCK BASE COURSE, LBR 100 COMPACTED TO AT LEAST 98% MAXIMUM DENSITY MODIFIED PROCTOR FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION
④	12" STABILIZED SUBGRADE TYPE 'B', LBR 40 MINIMUM COMPACTED TO AT LEAST 98% OF MAXIMUM DENSITY PER AASHTO T-180, FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION.
⑤	COMPACTED SUBGRADE, COMPACT 12" OF EXIST. SUBGRADE TO AT LEAST 95% STANDARD PROCTOR. FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION.
⑥	EMBANKMENT
⑦	4" TOPSOIL FROM EXIST. STOCKPILED STRIPPINGS. NO ADDITIONAL PAYMENT WILL BE MADE FOR RE-HANDLING THE MATERIAL.
⑧	EXIST. SITE TO BE STRIPPED 4" AND STOCKPILED TO BE REUSED FOR TOPSOIL. TO BE PAID AS UNCLASSIFIED EXCAVATION



Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:
MA

Checked By:
TL

Technician:
AM

ICE Project Name:
23-024

Engineer of Record:



NOTES:

REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

TYPICAL SECTIONS

FAA A.I.P. Project No.:

FDOT Project No.:

449858-94-01

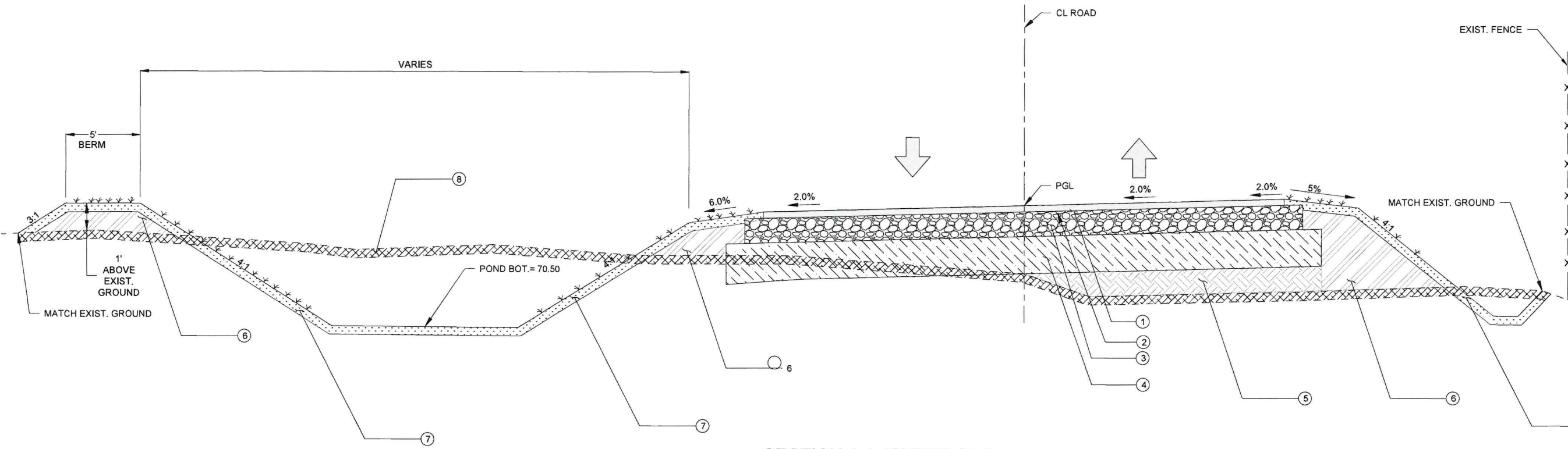
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MARCH 2024

Sheet Number:

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SECTION A-A (SHEET C4.2)
N.T.S.
DESIGN SPEED: 25 MPH

PAVEMENT SECTIONS LEGEND	
①	2" SP 12.5 ASPHALT SURFACE COURSE
②	PRIME COAT, WITH SAND APPLICATION, FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION. APPLIED AT A MIN. RATE OF 0.1 GALLON PER SQUARE YARD
③	8" LIMEROCK BASE COURSE, LBR 100 COMPACTED TO AT LEAST 98% MAXIMUM DENSITY MODIFIED PROCTOR FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION
④	12" STABILIZED SUBGRADE TYPE 'B', LBR 40 MINIMUM COMPACTED TO AT LEAST 98% OF MAXIMUM DENSITY PER AASHTO T-180, FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION.
⑤	COMPACTED SUBGRADE, COMPACT 12" OF EXIST. SUBGRADE TO AT LEAST 95% STANDARD PROCTOR FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION.
⑥	EMBANKMENT
⑦	4" TOPSOIL FROM EXIST. STOCKPILED STRIPPINGS. NO ADDITIONAL PAYMENT WILL BE MADE FOR RE-HANDLING THE MATERIAL.
⑧	EXIST. SITE TO BE STRIPPED 4" AND STOCKPILED TO BE REUSED FOR TOPSOIL. TO BE PAID AS UNCLASSIFIED EXCAVATION



Project Name:
NORTH DEVELOPMENT ROAD

Designer: MA	Checked By: TL
Technician: AM	ICE Project Name: 23-024

Engineer of Record:



NOTES:

REVISIONS			
NO.	DESCRIPTION	DATE	BY

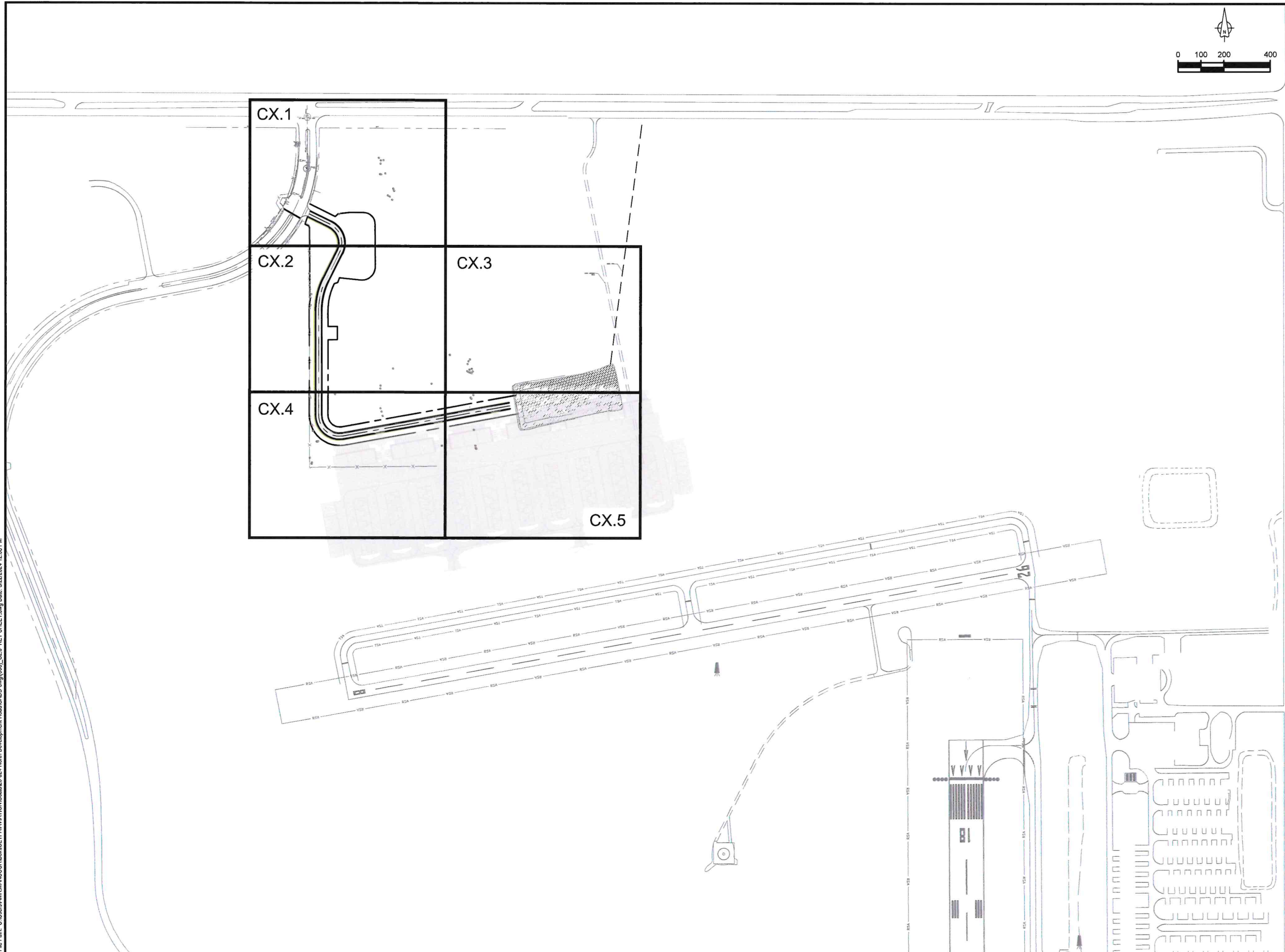
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TYPICAL SECTIONS

FAA A.I.P. Project No.:
-

FDOT Project No.:
449858-94-01

Date: MARCH 2024	Sheet Number: C1.2
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Ocala
International
Airport



Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

Technician:

AM

ICE Project Name:

23-024

Engineer of Record:



NOTES:

REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

KEY SHEET

FAA A.I.P. Project No.:

FDOT Project No.:

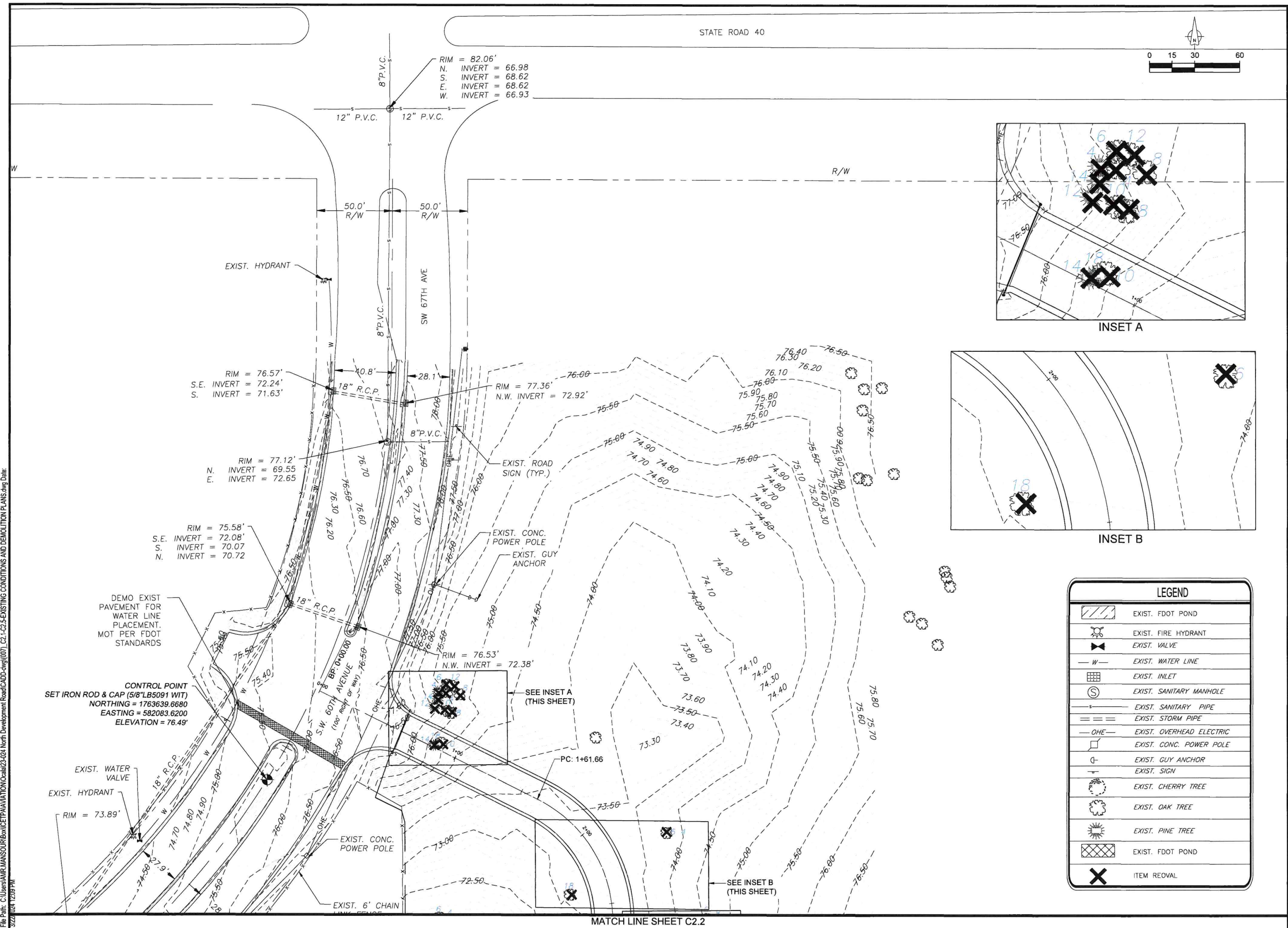
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Date:

MARCH 2024

Sheet Number:

C2.0



Project Name:

NORTH
DEVELOPMENT
ROAD

Designer: MA

Checked By:
TL

Technician: AM

CE Project Name:
23-024

Engineer of Record:



NOTES:

[illegible]

Drawing Name

EXISTING CONDITIONS AND
DEMOLITION PLANS (1 OF 5)

FAA A.I.P. Project No.:

FDOT Project No.:

449858-94-01

Date: _____

Sheet Number:

MARCH 2024

C2.1



Project Name:

NORTH
DEVELOPMENT
ROAD

Designer: MA

Checked By:	TL
-------------	----

Technician: AM

ICE Project Name:
23-024

Engineer of Record:



NOTES:

REVISIONS

[illegible]

Drawing Name:

EXISTING CONDITIONS AND
DEMOLITION PLANS (3 OF 5)

FAA A.I.P. Project No.:

FDOT Project No.:

449858-94-01

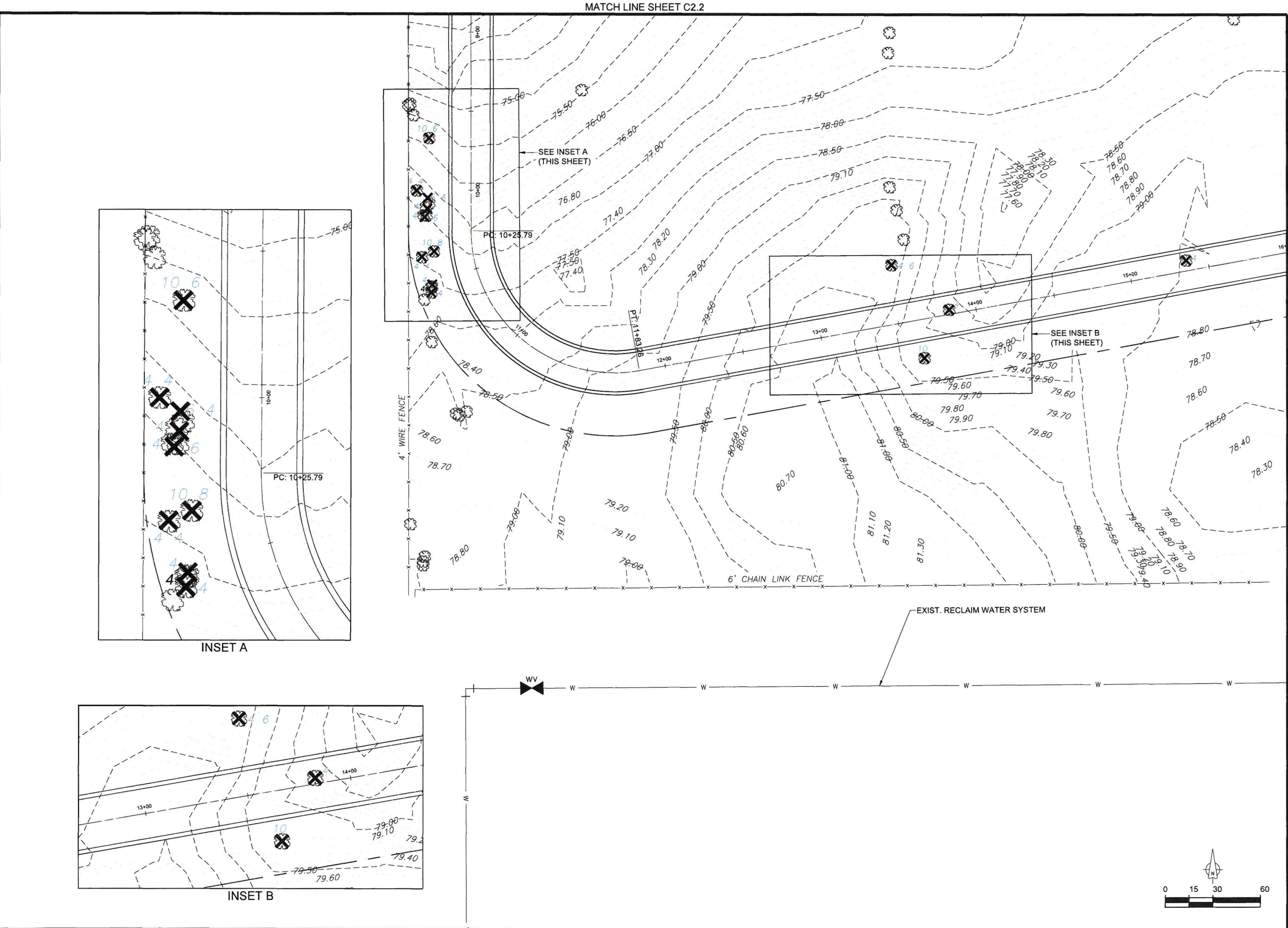
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MARCH 2024

C2.3

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OCALA

INFRASTRUCTURE
CONSULTING & ENGINEERING
5550 WEST IDLEWILD AVE, SUITE 115
TAMPA, FLORIDA 33634 (813) 330-2701
CERTIFICATE OF AUTHORIZATION NO.: 30862

Project Name:

**NORTH
DEVELOPMENT
ROAD**

Designer:

MA

Checked By:

TL

Technician:

AM

ICE Project Name:

23-024

Engineer of Record:



NOTES:

REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

**EXISTING CONDITIONS AND
DEMOLITION PLANS (4 OF 5)**

FAA A.I.P. Project No.:

FDOT Project No.:

449858-94-01

Date:

MARCH 2024

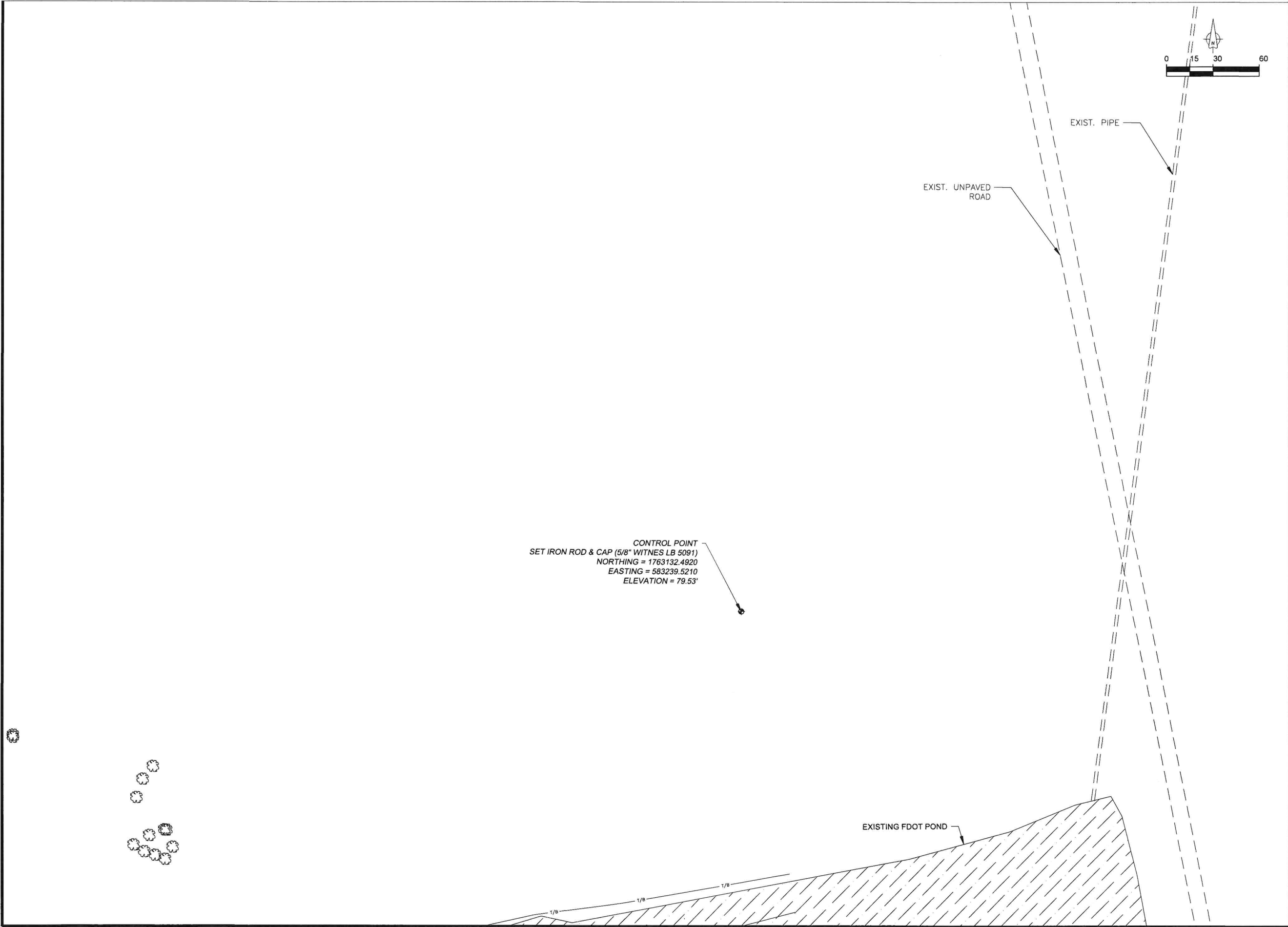
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MATCH LINE SHEET C3.2

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MATCH LINE SHEET C3.2



Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:
MA

Checked By:
TL

Technician:
AM

ICE Project Name:
23-024

Engineer of Record:



NOTES:

REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

STAKING AND GEOMETRY
PLANS (3 OF 5)

FAA A.I.P. Project No.:

-

FDOT Project No.:

449858-94-01

Date:

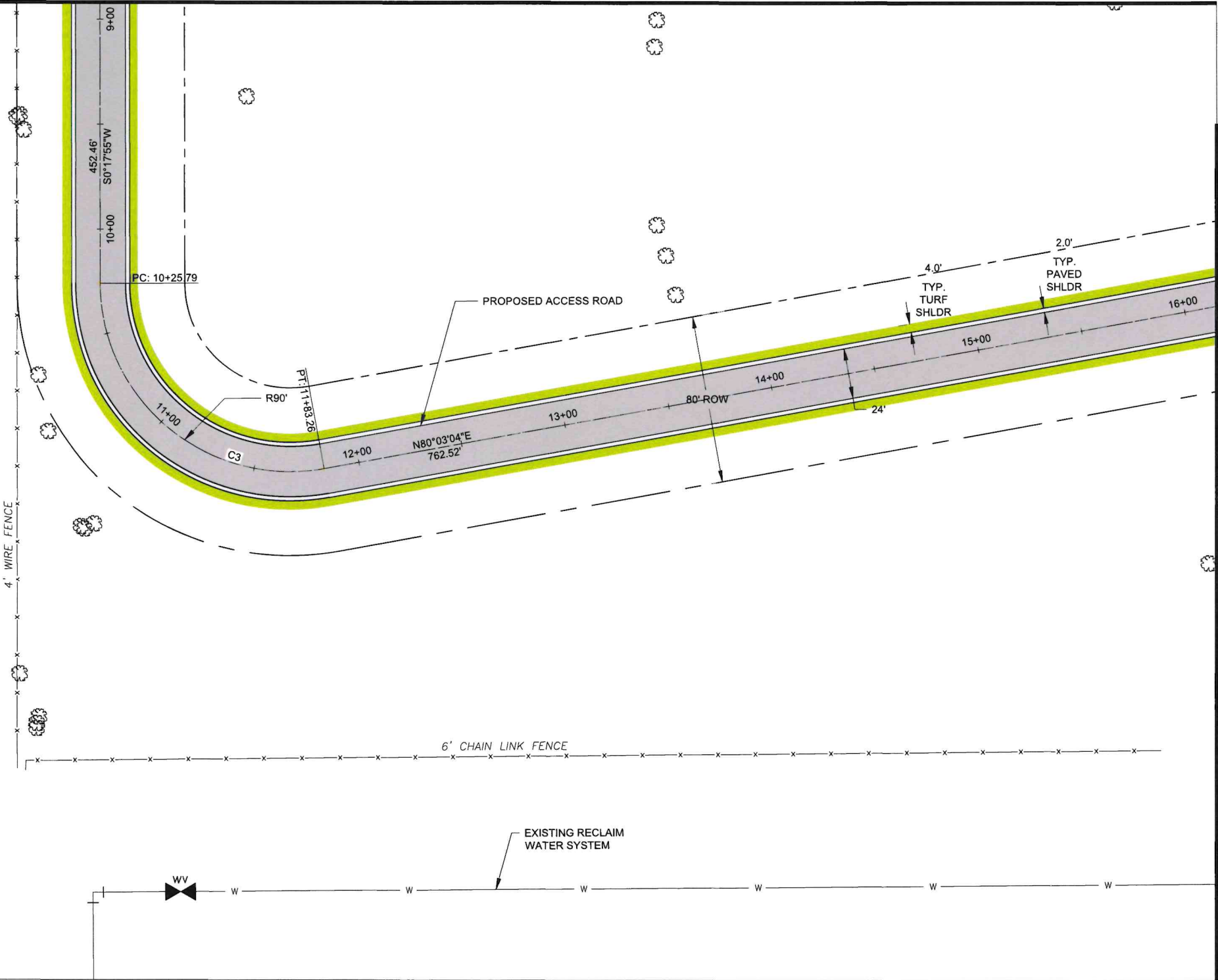
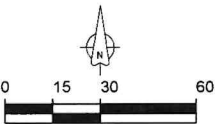
MARCH 2024

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C3.3

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MATCH LINE SHEET C3.2



Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

Technician:

AM

ICE Project Name:

23-024

Engineer of Record:



NOTES:

REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

STAKING AND GEOMETRY
PLANS (4 OF 5)

FAA A.I.P. Project No.:

FDOT Project No.:

449858-94-01

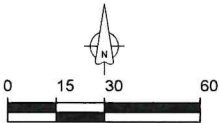
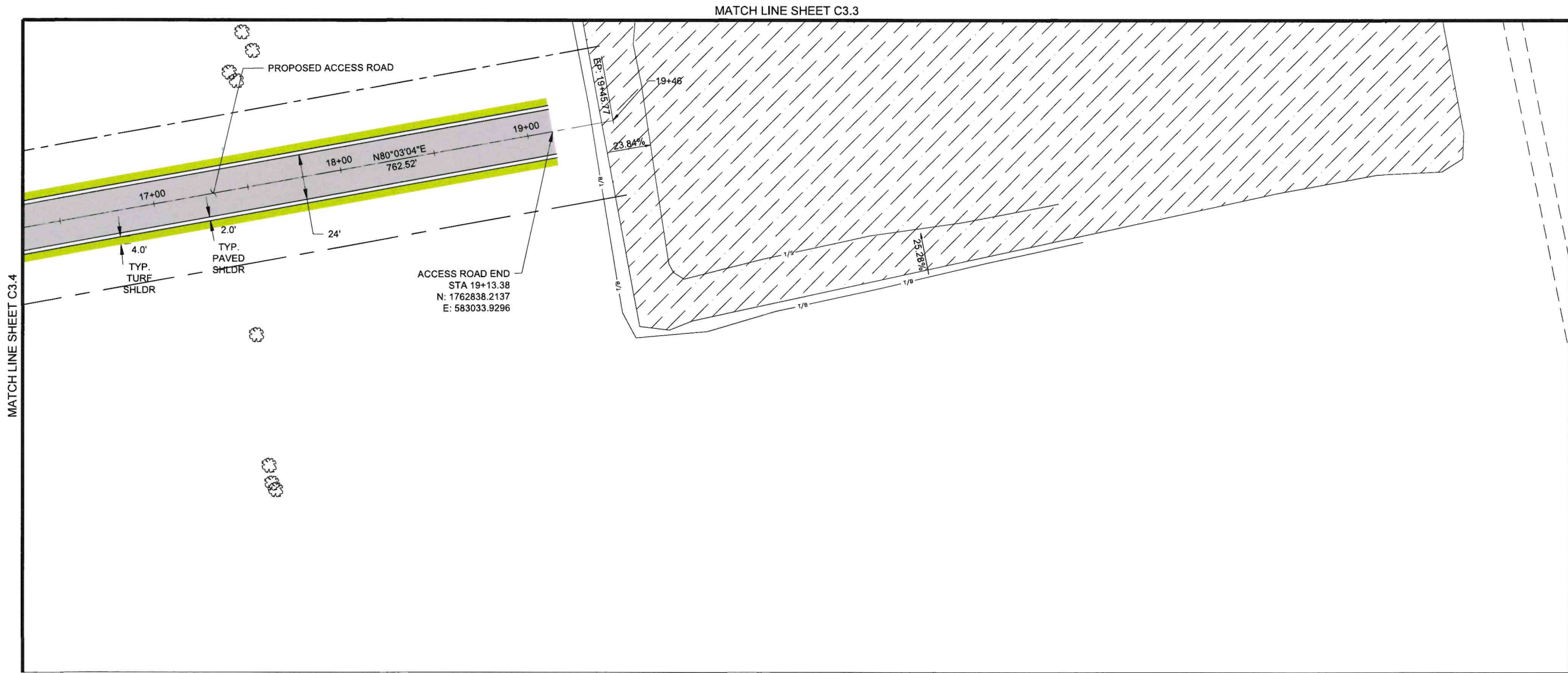
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Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:
MA

Checked By:
TL

Technician:
AM

ICE Project Name:
23-024

Engineer of Record:



NOTES:

REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

STAKING AND GEOMETRY
PLANS (5 OF 5)

FAA A.I.P. Project No.:

FDOT Project No.:

449858-94-01

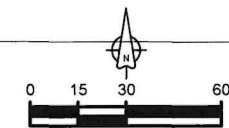
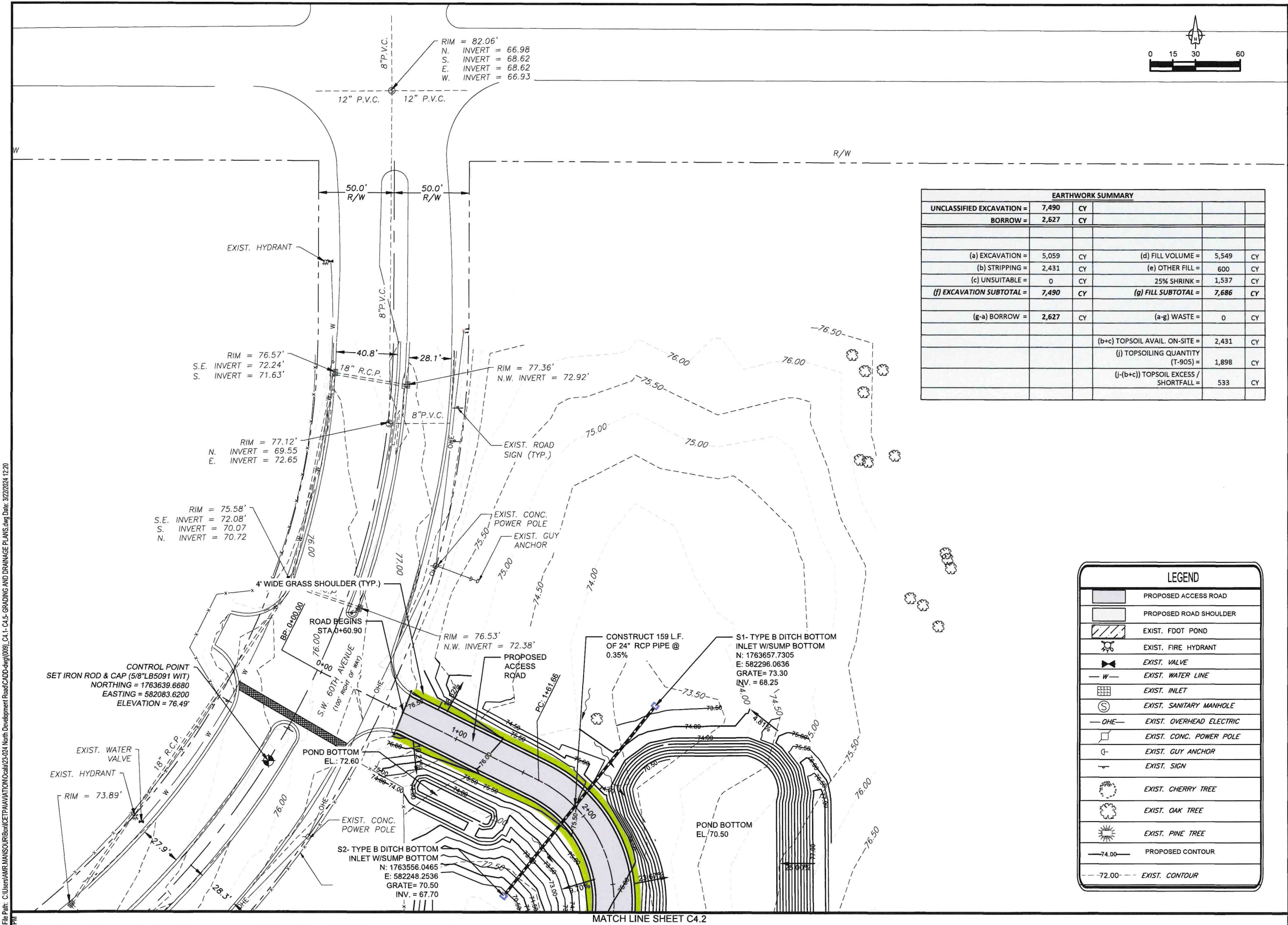
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C3.5

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Project Name:
**NORTH
DEVELOPMENT
ROAD**

Designer: MA Checked By: TL

Technician: AM ICE Project Name: 23-024

Engineer of Record:



NOTES:

REVISIONS			
NO.	DESCRIPTION	DATE	BY

Drawing Name:
**GRADING AND DRAINAGE
PLANS (1 OF 5)**

FAA A.I.P. Project No.: -

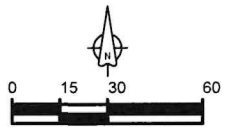
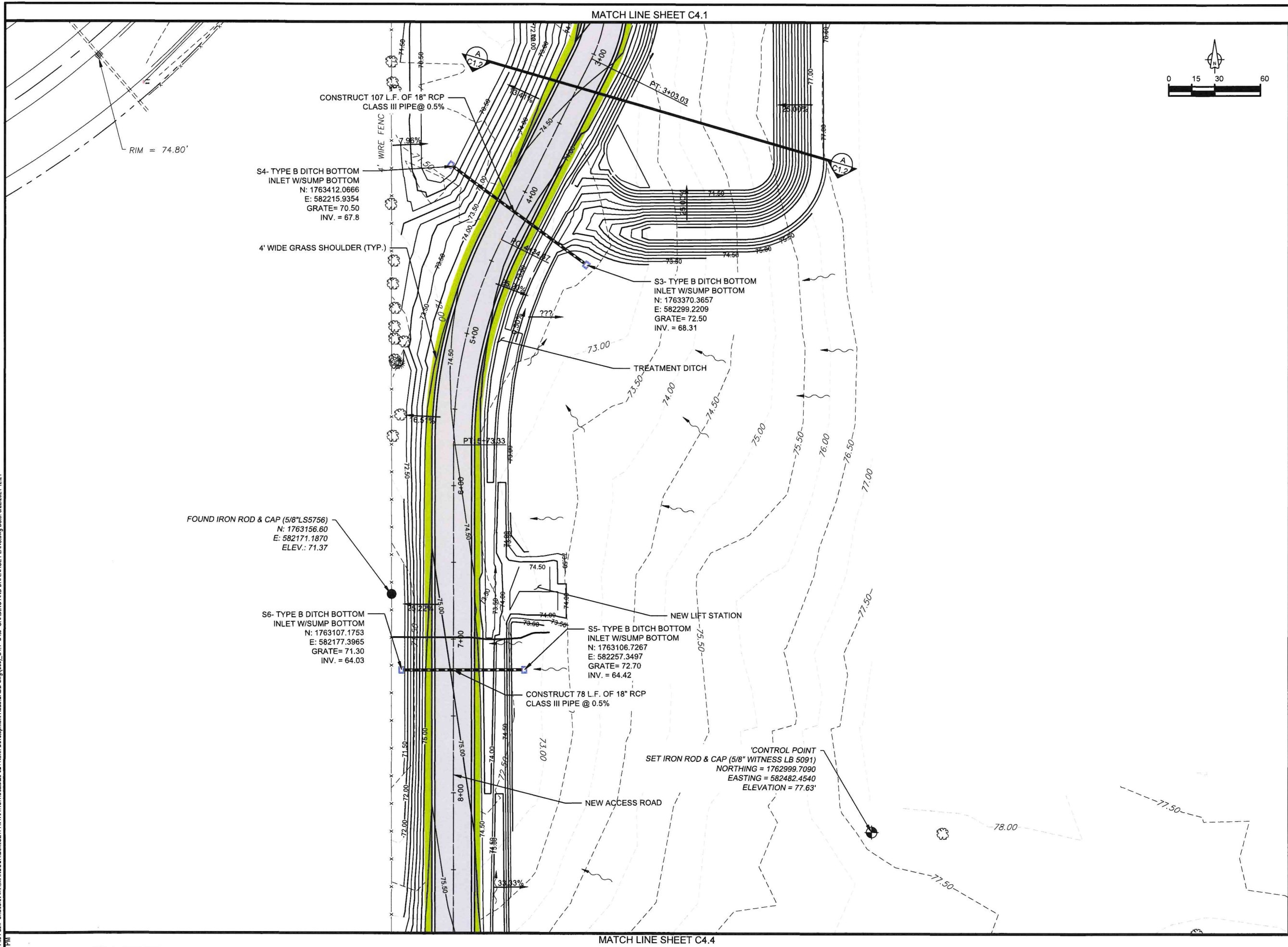
FDOT Project No.: 449858-94-01

Date: MARCH 2024 Sheet Number: C4.1

EARTHWORK SUMMARY					
UNCLASSIFIED EXCAVATION =	7,490	CY			
BORROW =	2,627	CY			
(a) EXCAVATION =	5,059	CY	(d) FILL VOLUME =	5,549	CY
(b) STRIPPING =	2,431	CY	(e) OTHER FILL =	600	CY
(c) UNSUITABLE =	0	CY	25% SHRINK =	1,537	CY
(f) EXCAVATION SUBTOTAL =	7,490	CY	(g) FILL SUBTOTAL =	7,686	CY
(g-a) BORROW =	2,627	CY	(a-g) WASTE =	0	CY
			(b+c) TOPSOIL AVAIL. ON-SITE =	2,431	CY
			(j) TOPSOILING QUANTITY (T-905) =	1,898	CY
			(j-(b+c)) TOPSOIL EXCESS / SHORTFALL =	533	CY

LEGEND	
	PROPOSED ACCESS ROAD
	PROPOSED ROAD SHOULDER
	EXIST. FOOT POND
	EXIST. FIRE HYDRANT
	EXIST. VALVE
	EXIST. WATER LINE
	EXIST. INLET
	EXIST. SANITARY MANHOLE
	EXIST. OVERHEAD ELECTRIC
	EXIST. CONC. POWER POLE
	EXIST. GUY ANCHOR
	EXIST. SIGN
	EXIST. CHERRY TREE
	EXIST. OAK TREE
	EXIST. PINE TREE
	PROPOSED CONTOUR
	EXIST. CONTOUR

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NORTH DEVELOPMENT ROAD	
Designer:	Checked By:
MA	TL
Technician:	ICE Project Name:
AM	23-024
Engineer of Record:	



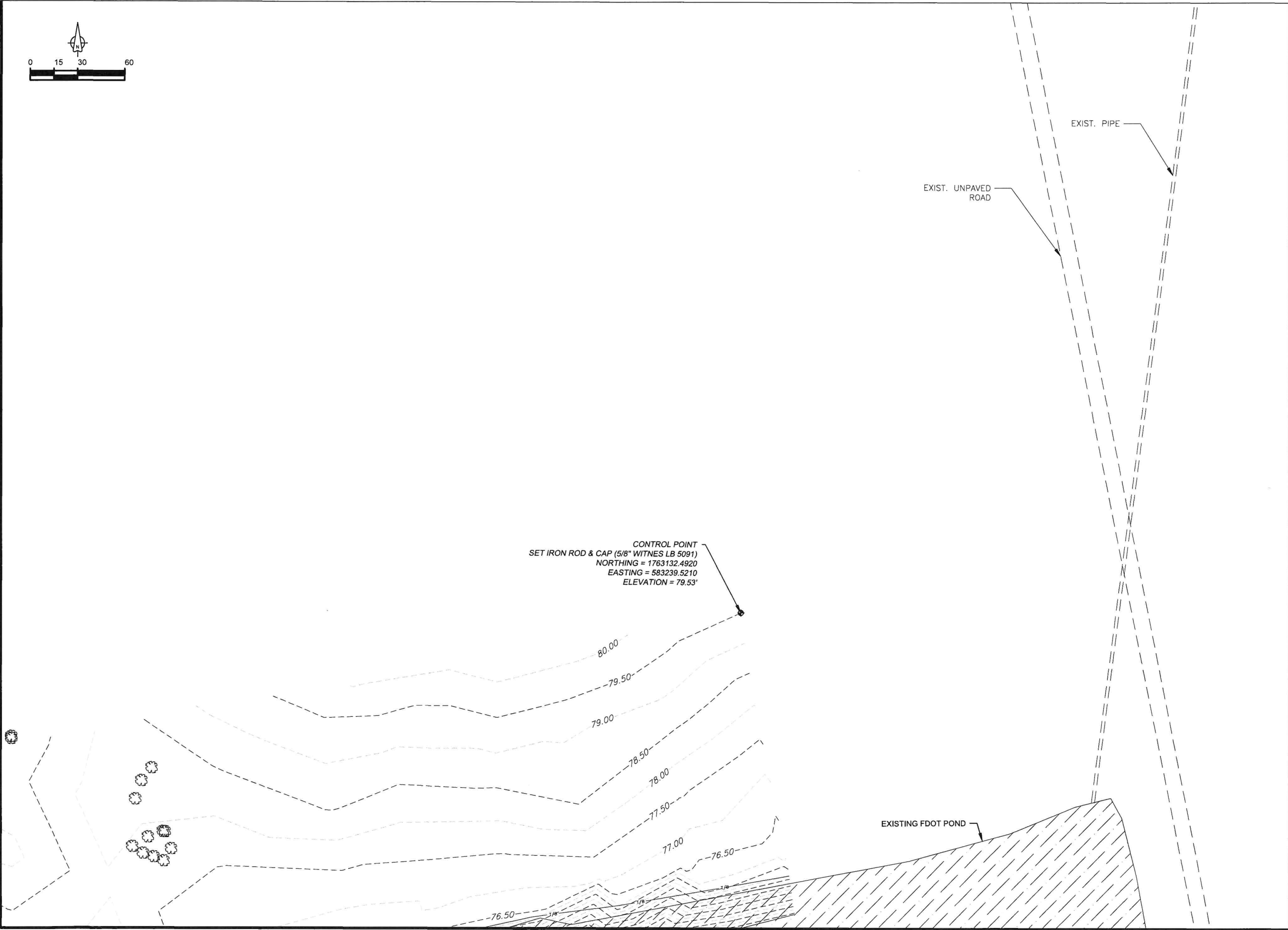
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FAA A.I.P. Project No.:	
-	
FDOT Project No.:	
449858-94-01	
Date:	Sheet Number:
MARCH 2024	C4.2

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MATCH LINE SHEET C4.2



MATCH LINE SHEET C4.5



Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:
MA

Checked By:
TL

Technician:
AM

ICE Project Name:
23-024

Engineer of Record:



NOTES:

1. SEE SHEET C4.1 FOR LEGEND

REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

GRADING AND DRAINAGE
PLANS (3 OF 5)

FAA A.I.P. Project No.:

FDOT Project No.:

449858-94-01

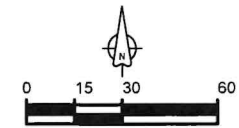
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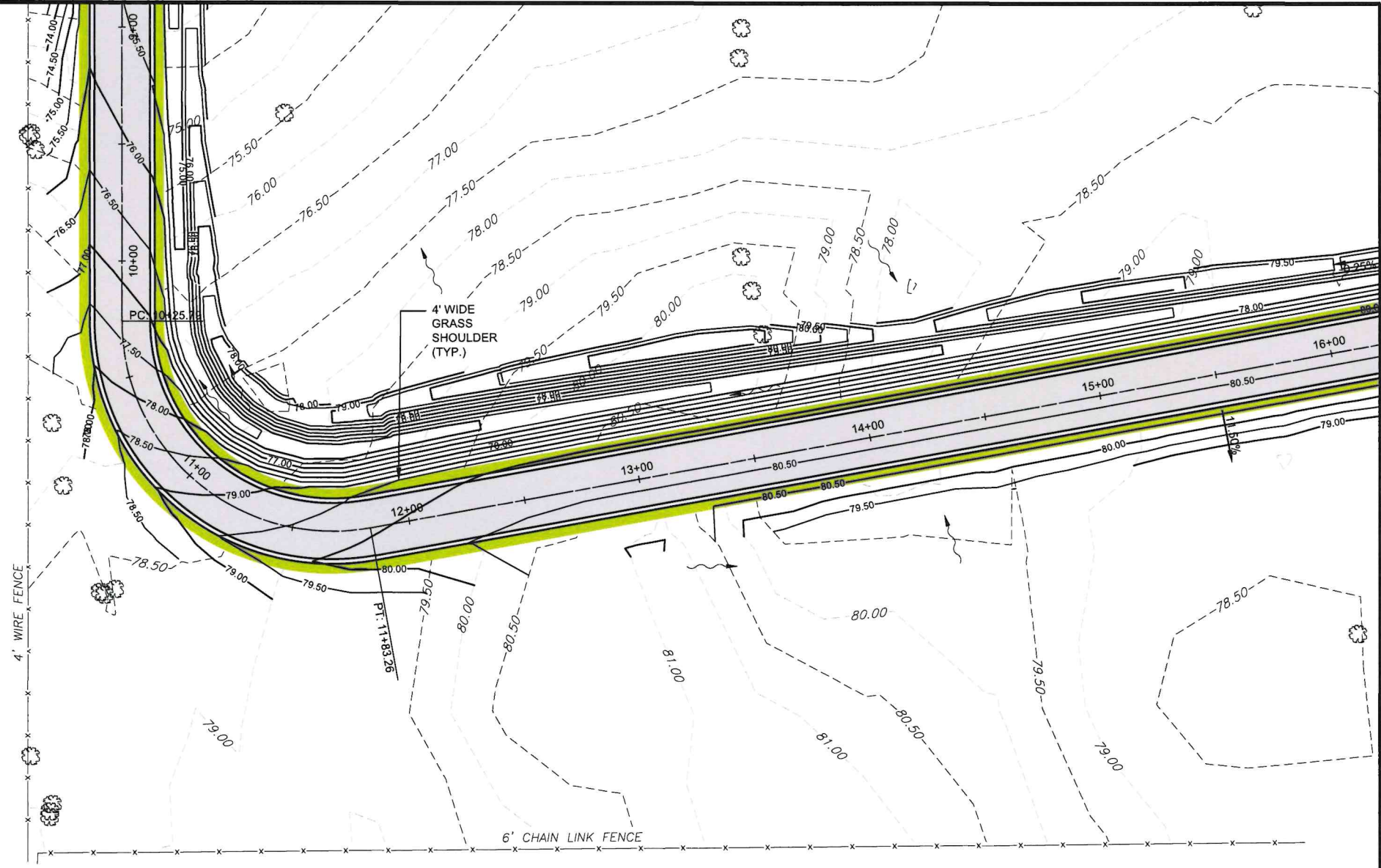
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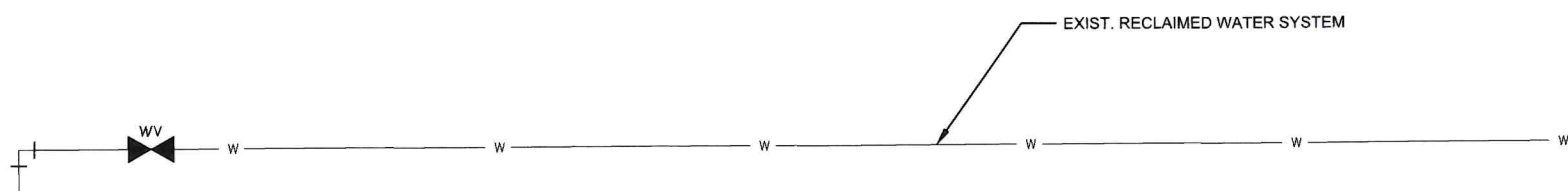
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MATCH LINE SHEET C4.2



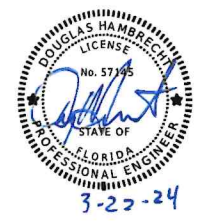
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Project Name:
NORTH DEVELOPMENT ROAD

Designer: MA	Checked By: TL
Technician: AM	ICE Project Name: 23-024

Engineer of Record:



NOTES:
1. SEE SHEET C4.1 FOR LEGEND

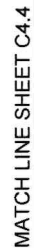
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Drawing Name:
GRADING AND DRAINAGE PLANS (4 OF 5)

FAA A.I.P. Project No.:
-

FDOT Project No.:
449858-94-01

Date: MARCH 2024	Sheet Number: C4.4
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NORTH
DEVELOPMENT
ROAD

Checked By:	TL
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ICE Project Name:
23-024

SEE SHEET C4.1 FOR LEGEND

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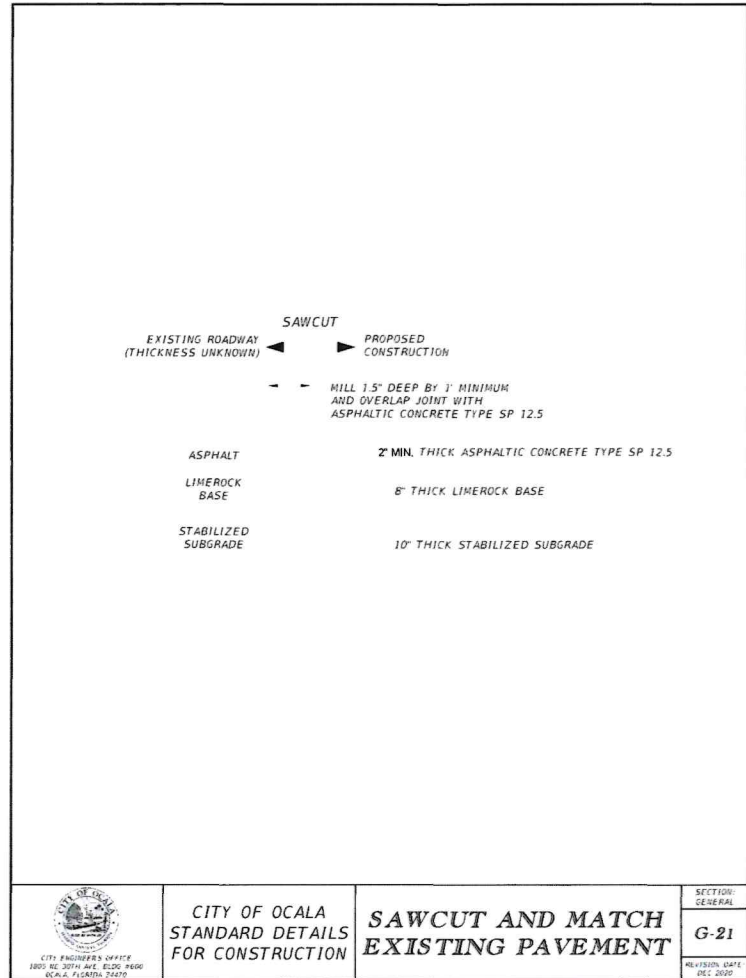
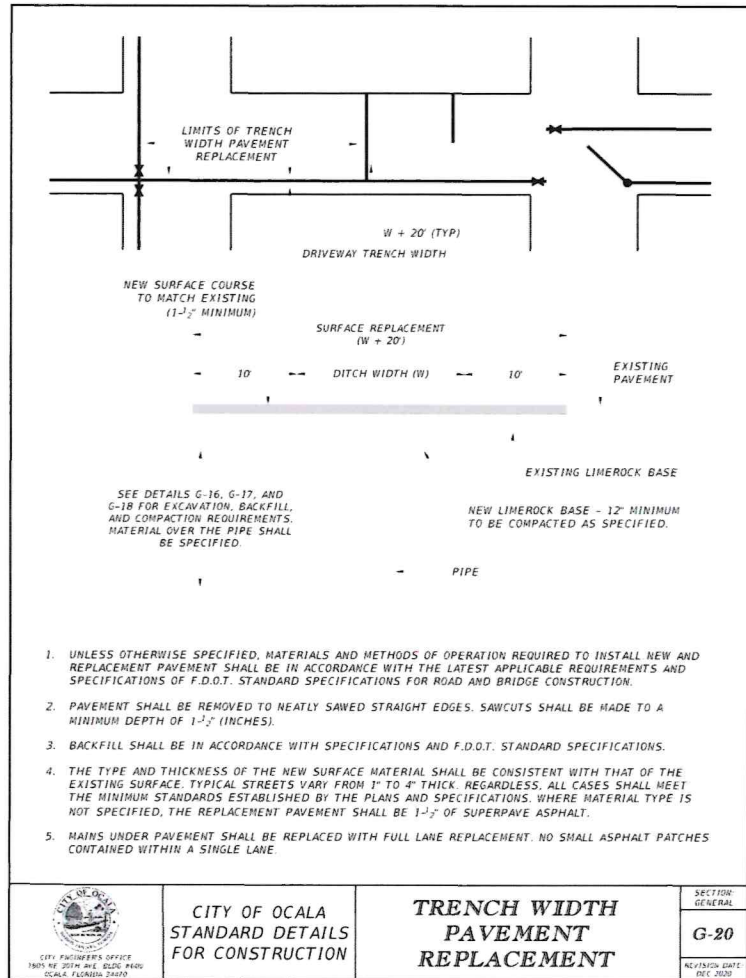
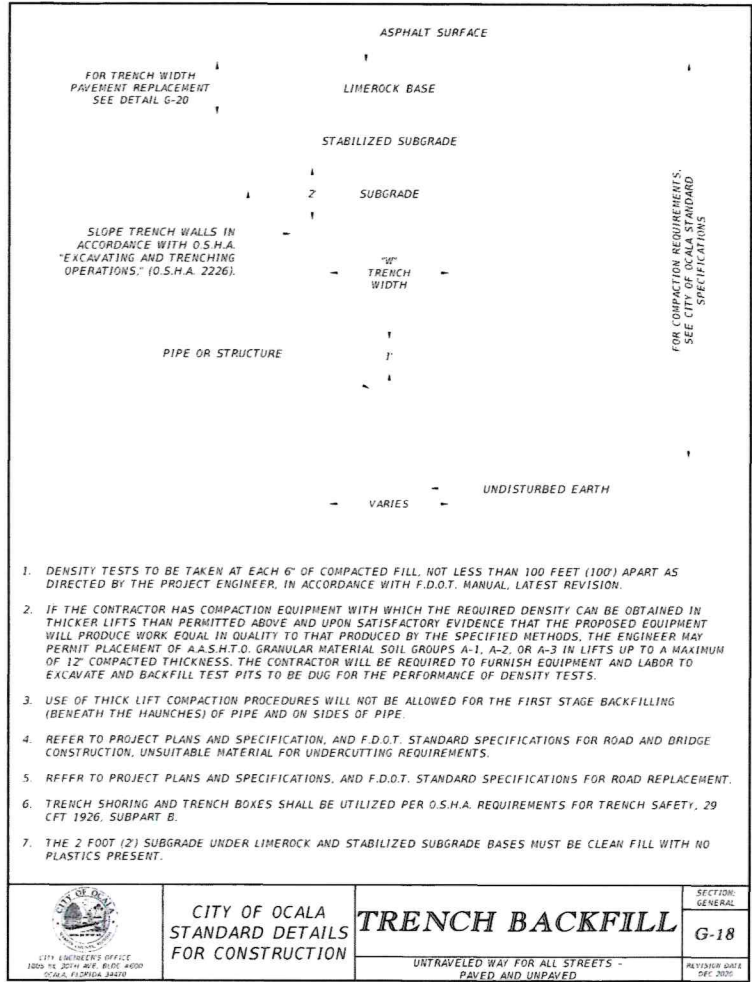
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PLANS (5 OF 5)

FAA A.I.P. Project No.:

FDOT Project No.:	449858-94-01
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Project Name:

NORTH DEVELOPMENT ROAD

Designer: MA Checked By: TL

Technician: AM ICE Project Name: 23-024

Engineer of Record:



NOTES:

NO.	DESCRIPTION	DATE	BY

Drawing Name:
CONSTRUCTION DETAILS (1 OF 4)

FAA A.I.P. Project No.: -

FDOT Project No.:
449858-94-01

Date: MARCH 2024 Sheet Number: C4.6

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Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

Technician:

AM

ICE Project Name:

23-024

Engineer of Record:



NOTES:

REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

CONSTRUCTION
DETAILS (2 OF 4)

FAA A.I.P. Project No.:

FDOT Project No.:

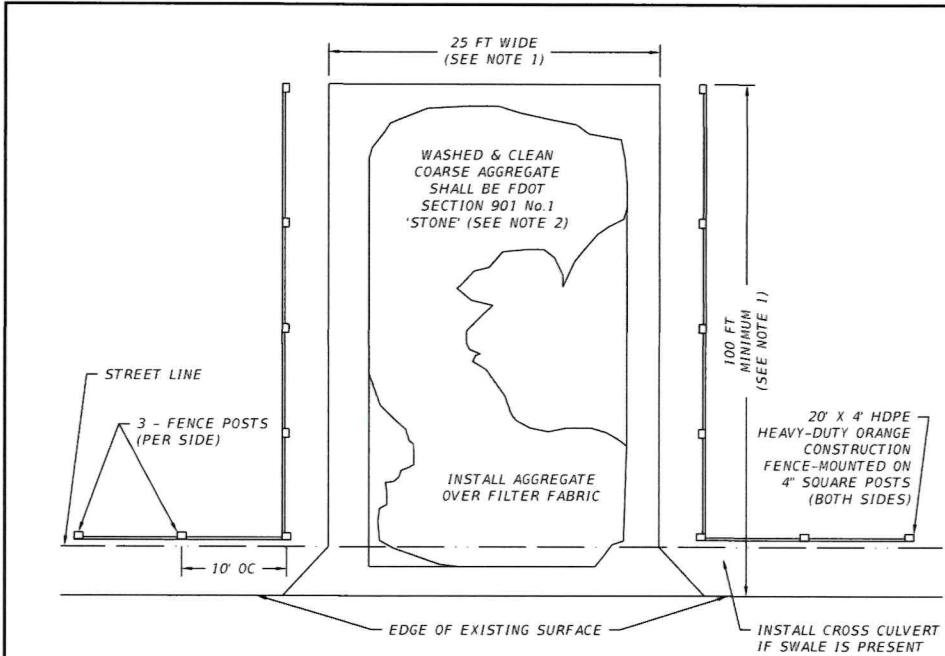
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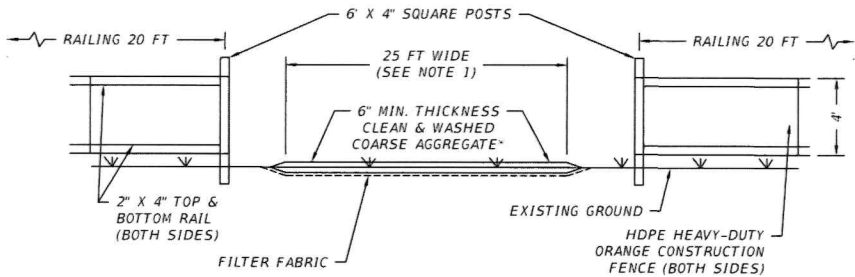
MARCH 2024

Sheet Number:

C4.7



PLAN



ELEVATION

NOTES:

1. CITY MAY REDUCE OR EXTEND THIS DIMENSION IF CONDITIONS PERMIT AND IF REQUESTED BY THE CONTRACTOR.
2. CITY MAY ALLOW NO. 57 STONE, OR CLEAN, WASHED RECYCLED CONCRETE MEETING THE MINIMUM SIZE OF NO. 1 STONE AS AN ALTERNATE IF REQUESTED BY THE CONTRACTOR.



CITY ENGINEER'S OFFICE
1805 NE 30TH AVE, BLDG #600
OCALA, FLORIDA 34470

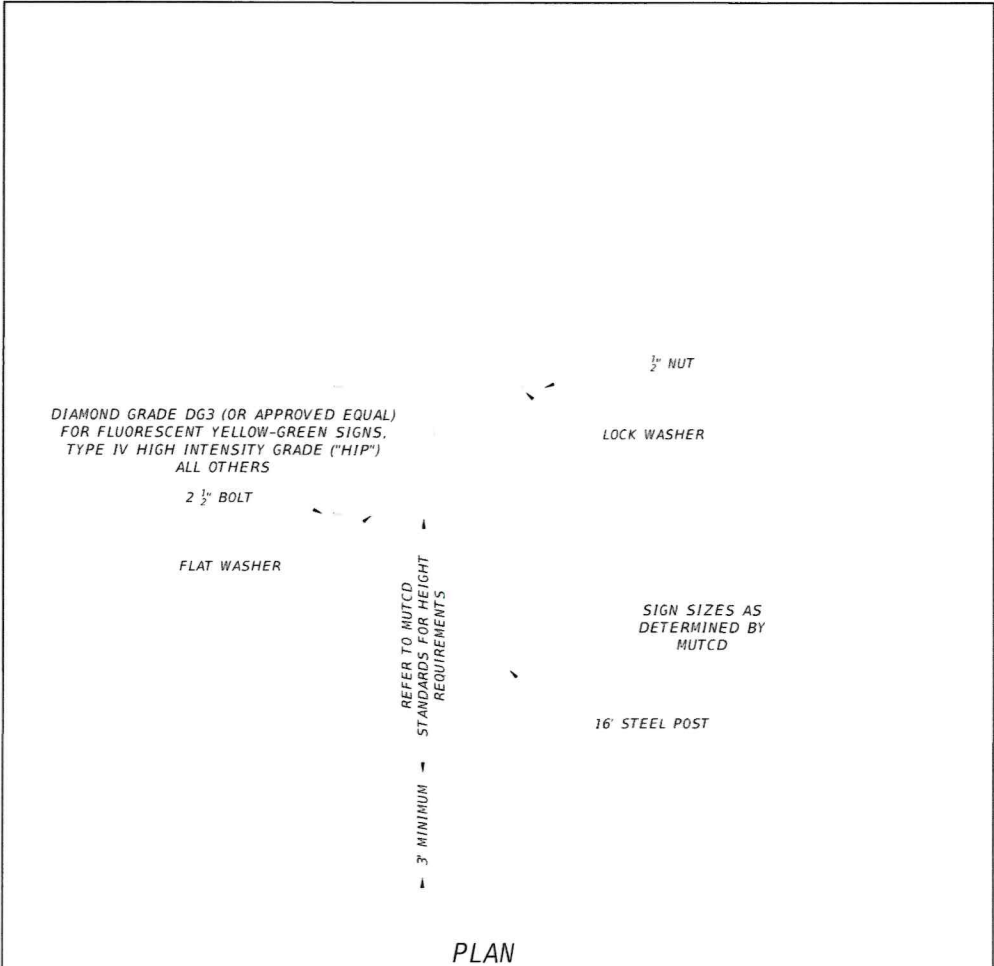
CITY OF OCALA
STANDARD DETAILS
FOR CONSTRUCTION

TYPICAL CONSTRUCTION
ENTRANCE TRACKING
PAD

SECTION:
GENERAL

G-22

REVISION DATE:
JAN 2022



PLAN



CITY ENGINEER'S OFFICE
1805 NE 30TH AVE, BLDG #600
OCALA, FLORIDA 34470

CITY OF OCALA
STANDARD DETAILS
FOR CONSTRUCTION

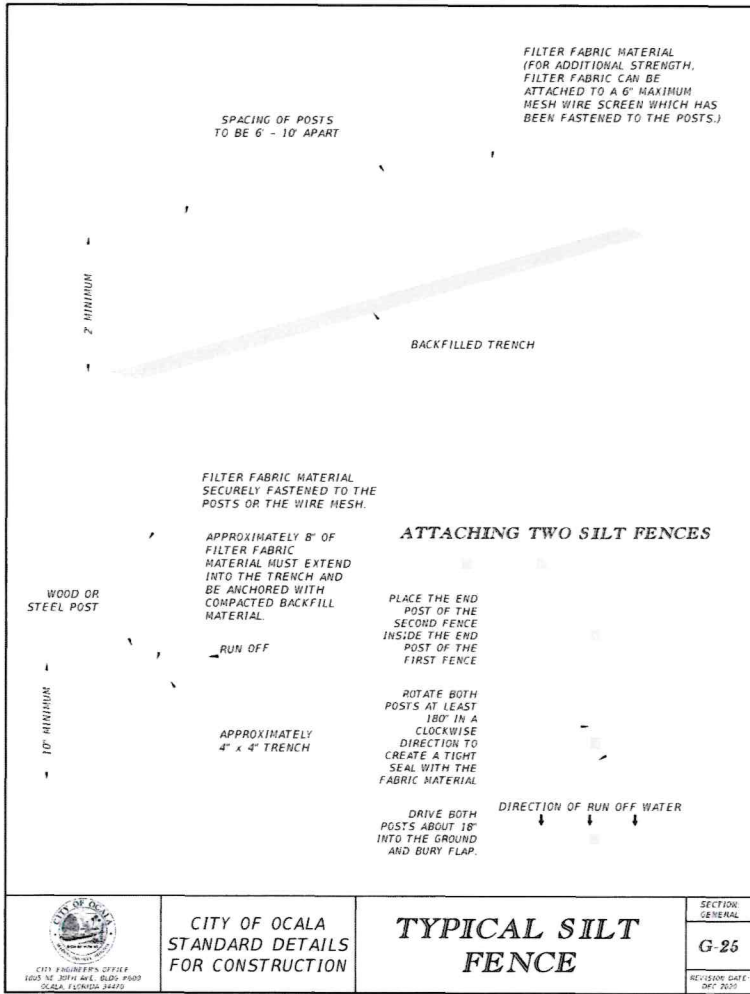
STANDARD SIGN
AND POST

SECTION:
TRANSPORTATION

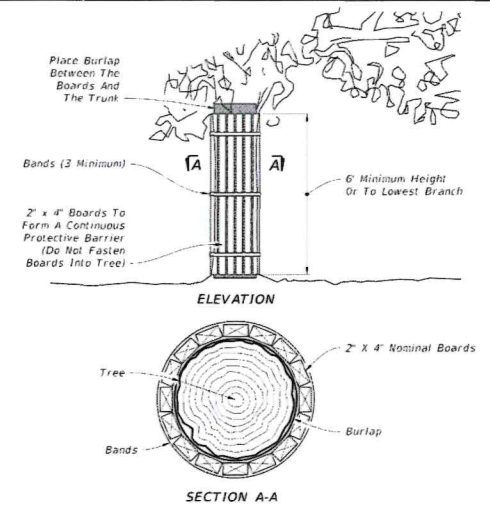
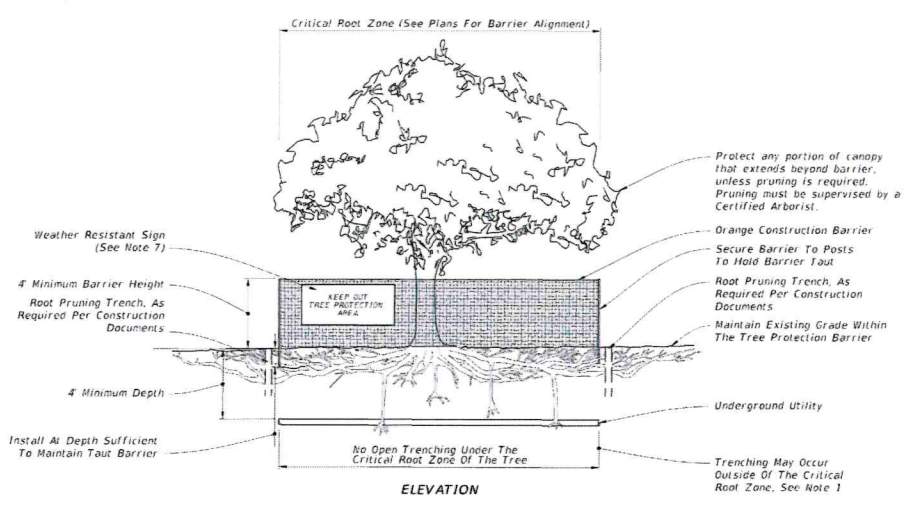
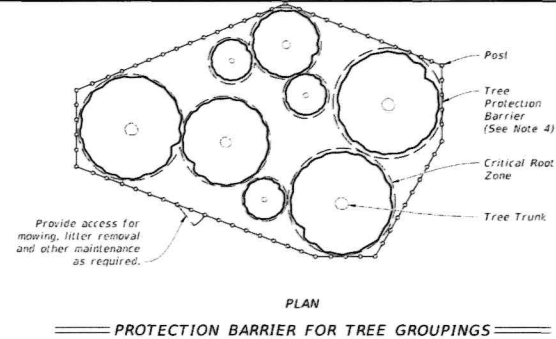
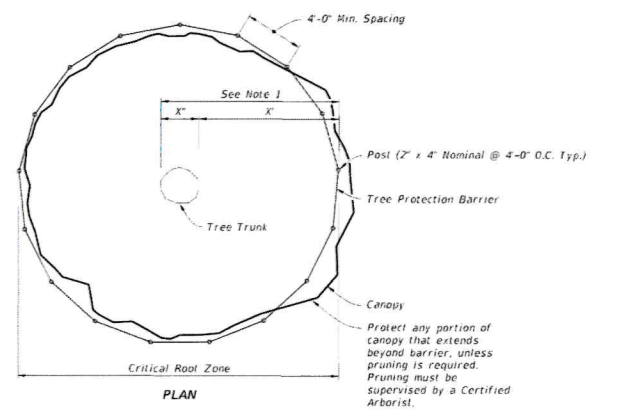
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REVISION DATE:
DEC. 2021

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- NOTES:
1. Critical Root Zone: Extends in all directions from trunk of tree to a distance equal to one foot per inch of trunk diameter at breast height.
 2. Staging, storage, dumping, washing and operation of equipment is not permitted within the limits of the tree protection barrier, including during barrier installation.
 3. Install all tree protection prior to commencement of construction and remove when directed by the Engineer. Maintain protection at all times.
 4. For closely spaced groups of trees, place the tree protection barrier around the entire group.
 5. Inspect trunk protection and tree quarterly to prevent girdling. Adjust bands to allow tree growth as needed.
 6. See plans for any additional requirements or modifications within the tree protection area.
 7. Place weather resistant sign every 50' along the barrier, with 6' minimum text height and provide text in English and Spanish. Sign should read "Keep Out Tree Protection Area".
 8. Alternate tree protection systems approved by the Engineer may be used in lieu of the tree protection barrier detailed on this index as long as the critical root zone is protected.
 9. The Critical Root Zone may be reduced, in the field, by a certified Arborist or Landscape Architect.



- NOTES:
1. Trunk protection may be used when Tree Protection Barrier can not be reasonably erected, when approved by Engineer.
 2. See Selective Clearing and Grubbing Plan for location of trunk protection, when applicable.
 3. Adjust bands to allow tree growth (inspect quarterly to prevent girdling).
- TRUNK PROTECTION

10/16/2021 1:29:54 PM

LAST REVISION	DESCRIPTION	FY 2023-24 STANDARD PLANS	INDEX	SHEET
11/01/18			110-100	1 of 1



Project Name:	
NORTH DEVELOPMENT ROAD	
Designer: MA	Checked By: TL
Technician: AM	ICE Project Name: 23-024
Engineer of Record:	

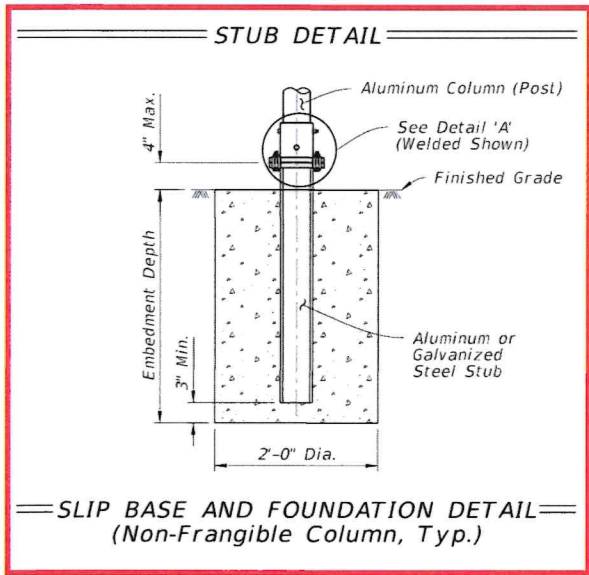
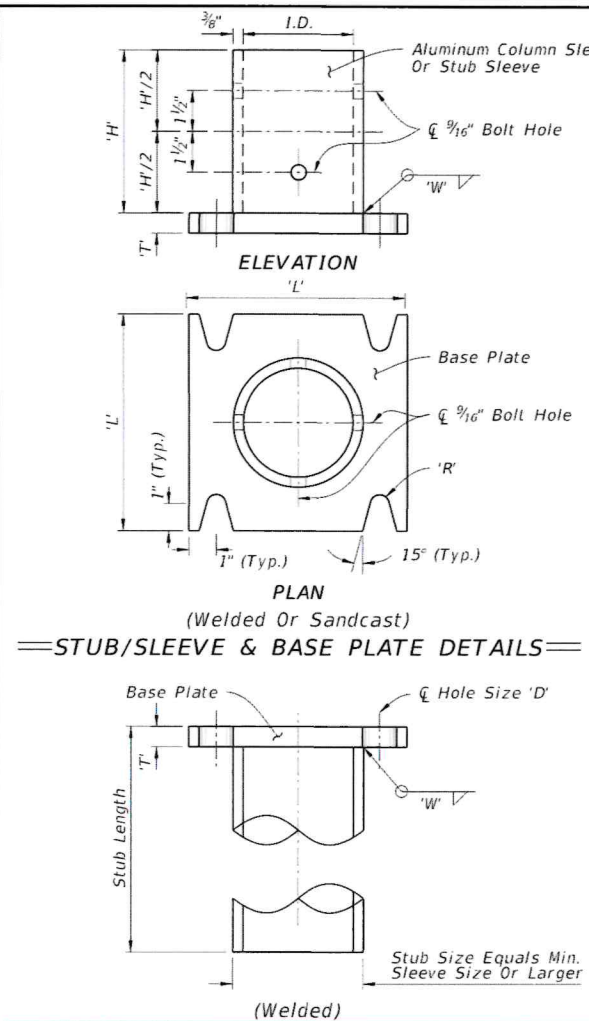


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NO.	DESCRIPTION	DATE	BY

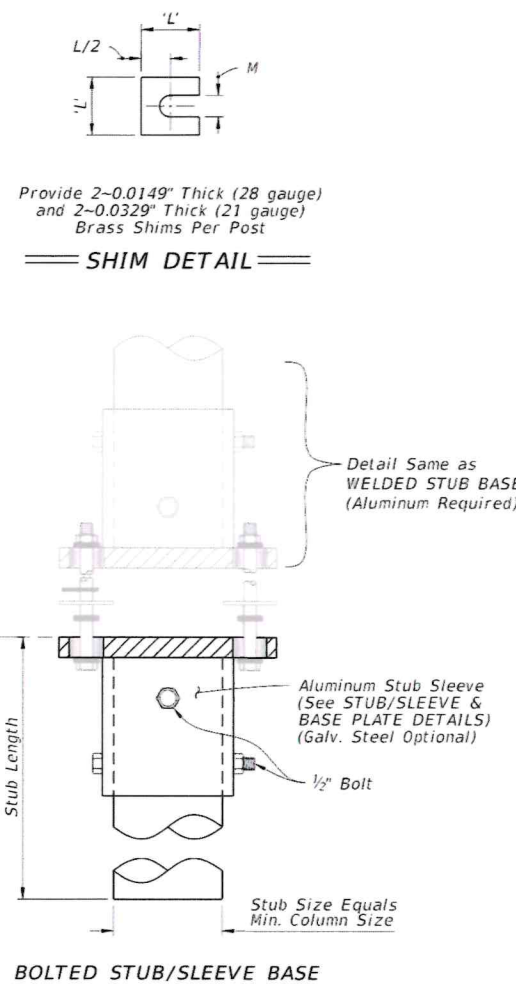
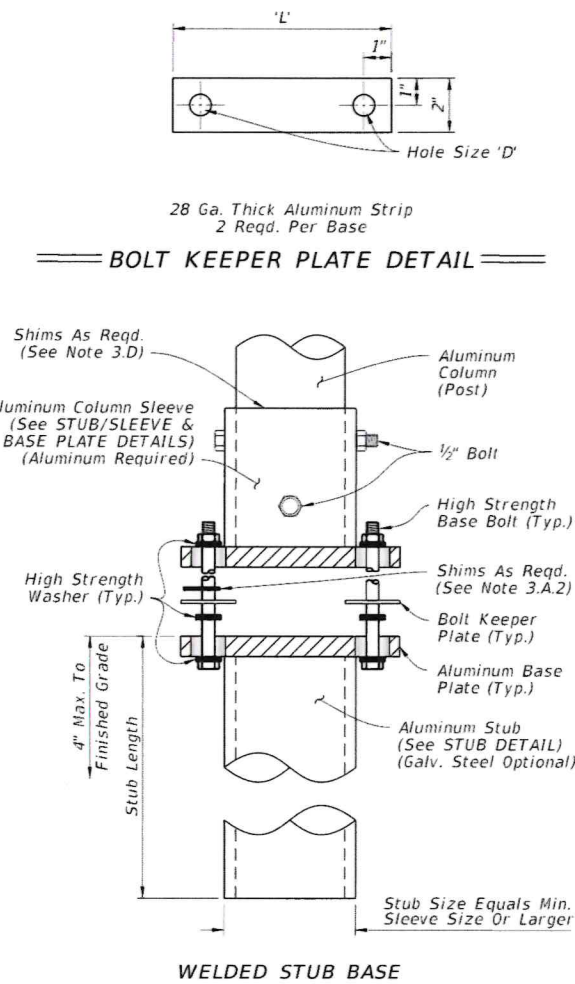
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CONSTRUCTION DETAILS (3 OF 4)	
FAA A.I.P. Project No.:	
-	
FDOT Project No.:	
449858-94-01	
Date:	Sheet Number:
MARCH 2024	C4.8

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SLIP BASE AND FOUNDATION DETAIL IN CONCRETE
(Non-Frangible Column In Crossovers, Medians & Sidewalks)



NOTES:

- Foundation Notes for Slip Base:**
 - See **FOUNDATION TABLE** on Sheet 3 for foundation embedment depth and stub length.
- Slip Base Fabrication Notes:**
 - The difference between the O.D. of the post and I.D. of the Sleeve must be 1/16" or less.
 - The **WELDED STUB BASE** and lower **STUB/SLEEVE BASE PLATE** may be fabricated using galvanized steel as an option to aluminum. The upper portion of the **SLIP BASE** must be aluminum.
 - Either a **Welded Stub Base** or **Bolted Stub/Sleeve Base** may be used in **Slip Base**.
 - For cast base plates bolted to foundation stubs, use a foundation stub the same size as the sign column (Post).
- Slip-Base Assembly Instructions:**
 - Assemble the Slip Base as follows:
 - Insert Post into Sleeve and connect using 2 - 1/2" diameter Sleeve Bolts.
 - Assemble top base plate to bottom Base Plate using Base Bolts (High strength) with 3 washers per bolt. (See Detail 'A'):
 - Place one washer on each Base Bolt between the bottom Base Plate and the Base Bolt head.
 - Place the next washer between the Bottom Base Plate and the Bolt Keeper Plate.
 - Use brass or galvanized steel shims to plumb the post.
 - Add the top base plate section.
 - Place the third washer between the Top Base Plate and the Nut.
 - Orient the Bolt Keeper Plates in the Direction of Traffic.
 - Tighten Base Bolts as follows:
 - Tighten Base Bolts to the maximum possible with a 12" to 15" wrench (this will bed the washers and shims and clear the bolt threads).
 - Loosen each Base Bolt one turn.
 - Under the supervision of the Engineer, use a calibrated wrench to tighten bolts to the torque prescribed in the **SLIP BASE DETAILS** Table. Over tightened Base Bolts are not permitted.
 - Distort bolt threads at the junction with nuts to prevent loosening. Repair damaged galvanizing.
 - Obtain a tight sleeve connection by placing 4 galvanized steel shims between the column (post) and sleeve. Space the shims evenly around the perimeter of the column (1 between each bolt hole, 4 total). Use shims that are 1" shorter than the height of the sleeve.

Column (Post) Size		SLIP BASE DETAILS										
Outside Dia.	Wall Thickness	Sleeve I.D. (Max.)	Sleeve Height 'H'	Weld 'W'	Base Plate 'L' 'T'	Radius 'R'	Base Bolt Size	Base Bolt Length	Base Plate Torque ft.-lbs	Base Plate Torque in.-lbs	Hole Size 'D'	SHIM L M
4"	1/4"	4 1/16"	6"	1/4"	8" 3 1/4"	1 1/32"	5/8"	3"	29	345	1 1/16"	1 3/8" 1 1/16"
4 1/2"	1/4"	4 9/16"	6"	1/4"	8" 7/8"	1 1/32"	5/8"	3 1/2"	29	345	1 1/16"	1 3/8" 1 1/16"
5"	1/4"	5 1/16"	7"	1/4"	8" 7/8"	1 1/32"	5/8"	3 1/4"	29	345	1 1/16"	1 3/8" 1 1/16"
6"	1/4"	6 1/16"	8"	1/4"	9" 1"	1 3/32"	3/4"	3 1/2"	46	554	1 3/16"	1 3/4" 1 3/16"
8"	1/4"	8 1/16"	10"	1/4"	11" 1"	1 3/32"	7/8"	3 3/4"	53	640	1 5/16"	2 3/8" 1 1/16"

SLIP BASE AND FOUNDATION DETAILS

LAST REVISION
11/01/22

DESCRIPTION:



FY 2023-24
STANDARD PLANS

SINGLE COLUMN GROUND SIGNS

INDEX
700-010

SHEET
4 of 11



Project Name:

**NORTH
DEVELOPMENT
ROAD**

Designer:

MA

Checked By:

TL

Technician:

AM

ICE Project Name:

23-024

Engineer of Record:



NOTES:

REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

**CONSTRUCTION
DETAILS (4 OF 4)**

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FDOT Project No.:

449858-94-01

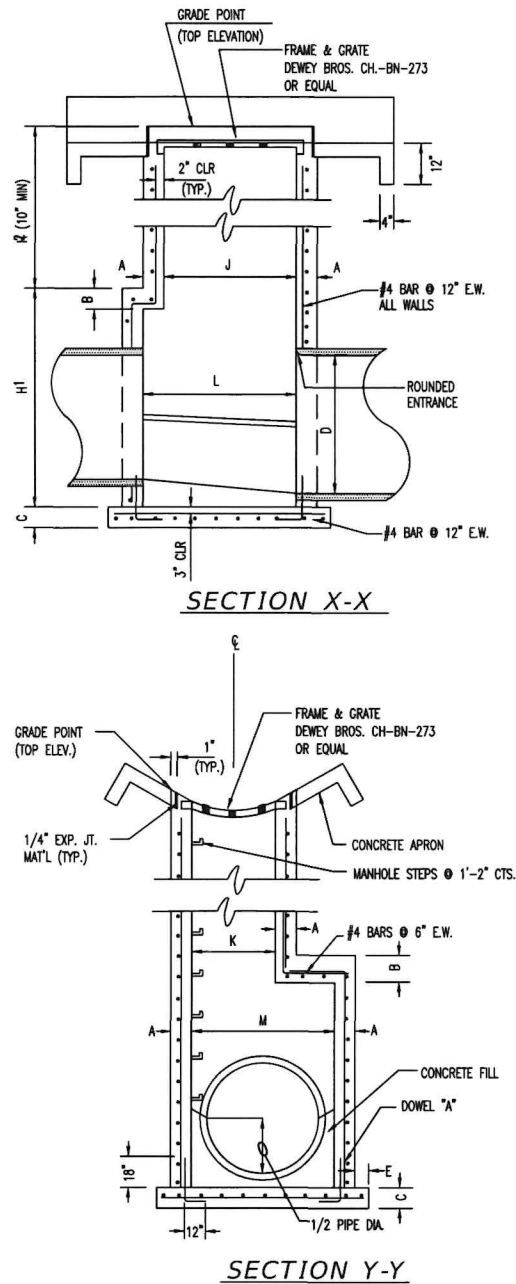
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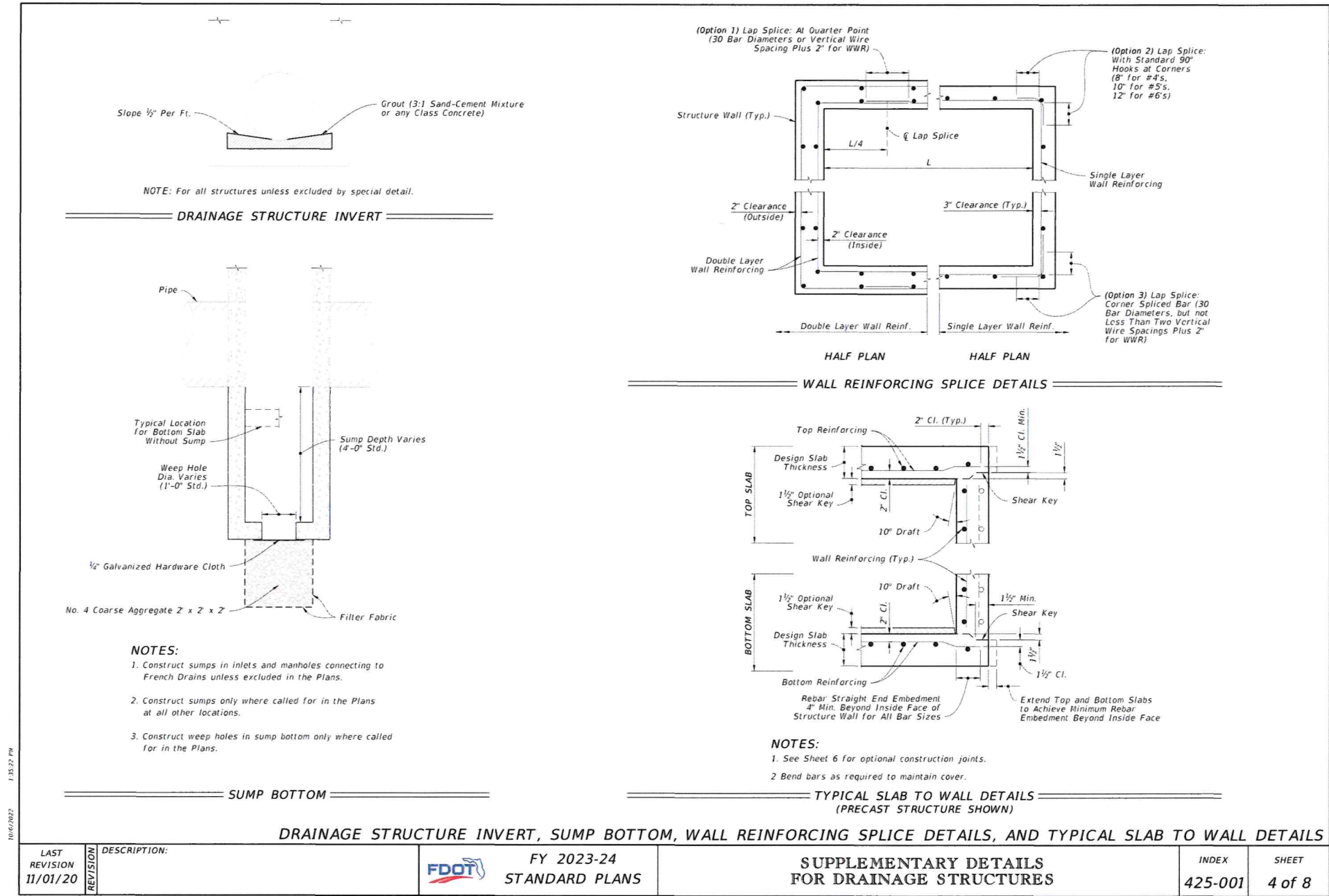
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TYPE "B" DROP INLET



Project Name:

**NORTH
DEVELOPMENT
ROAD**

Designer: MA Checked By: TL

Technician: AM ICE Project Name: 23-024

Engineer of Record:



NOTES:

REVISIONS			
NO.	DESCRIPTION	DATE	BY

Drawing Name:

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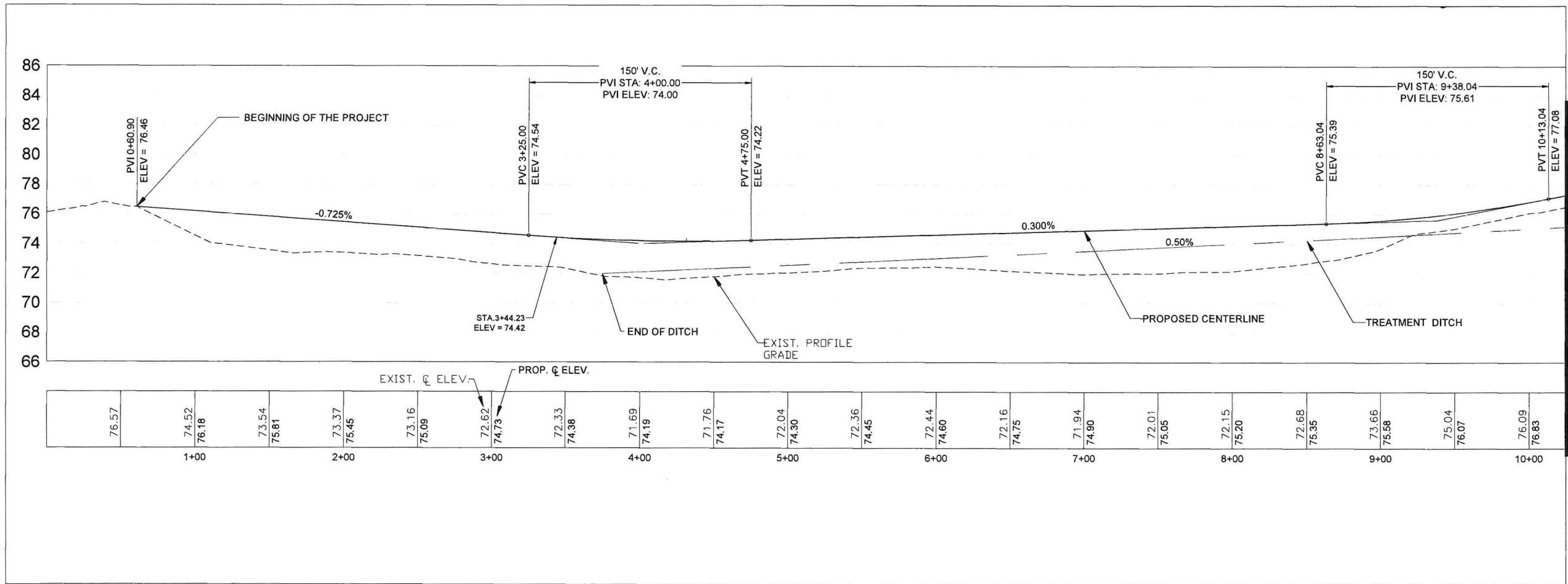
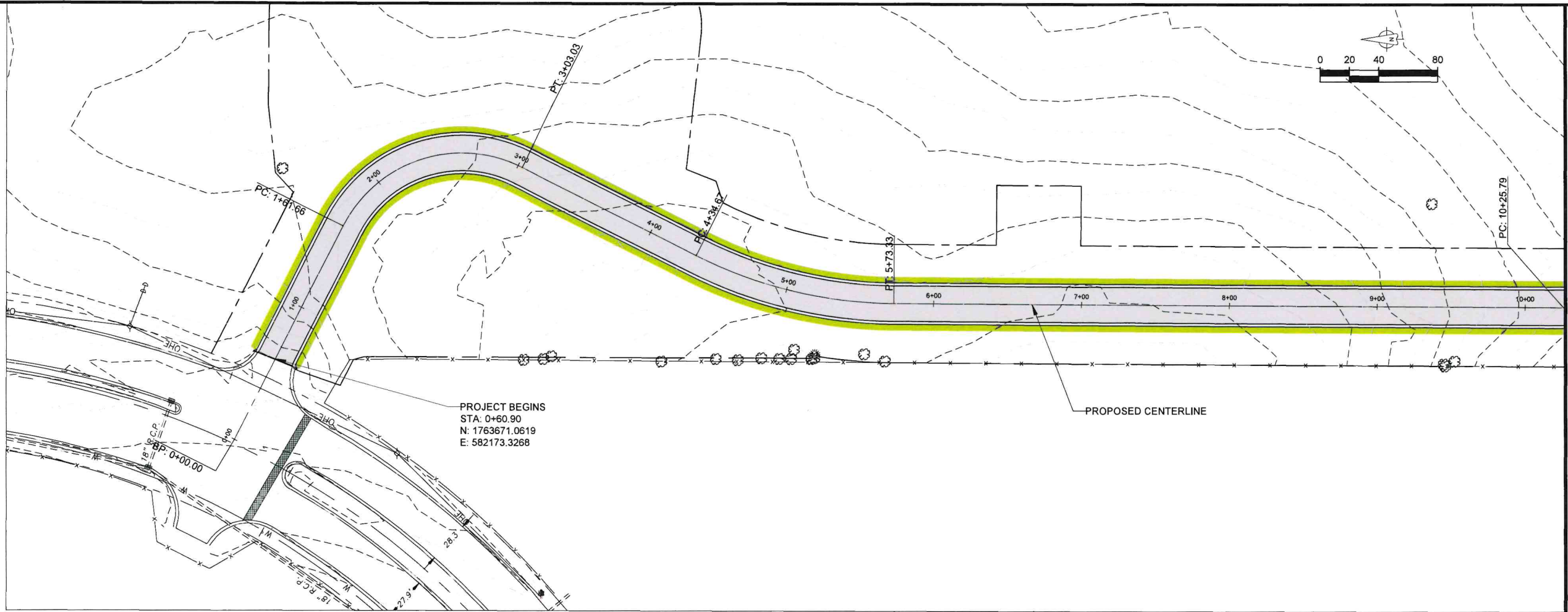
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MATCH LINE SHEET C5.2 STA. 10+25.00



Project Name:
NORTH DEVELOPMENT ROAD

Designer: MA Checked By: TL

Technician: AM ICE Project Name: 23-024

Engineer of Record:



NOTES:

HOR. SCALE 0 20 40 80

VER. SCALE 0 5 10 20

REVISIONS			
NO.	DESCRIPTION	DATE	BY

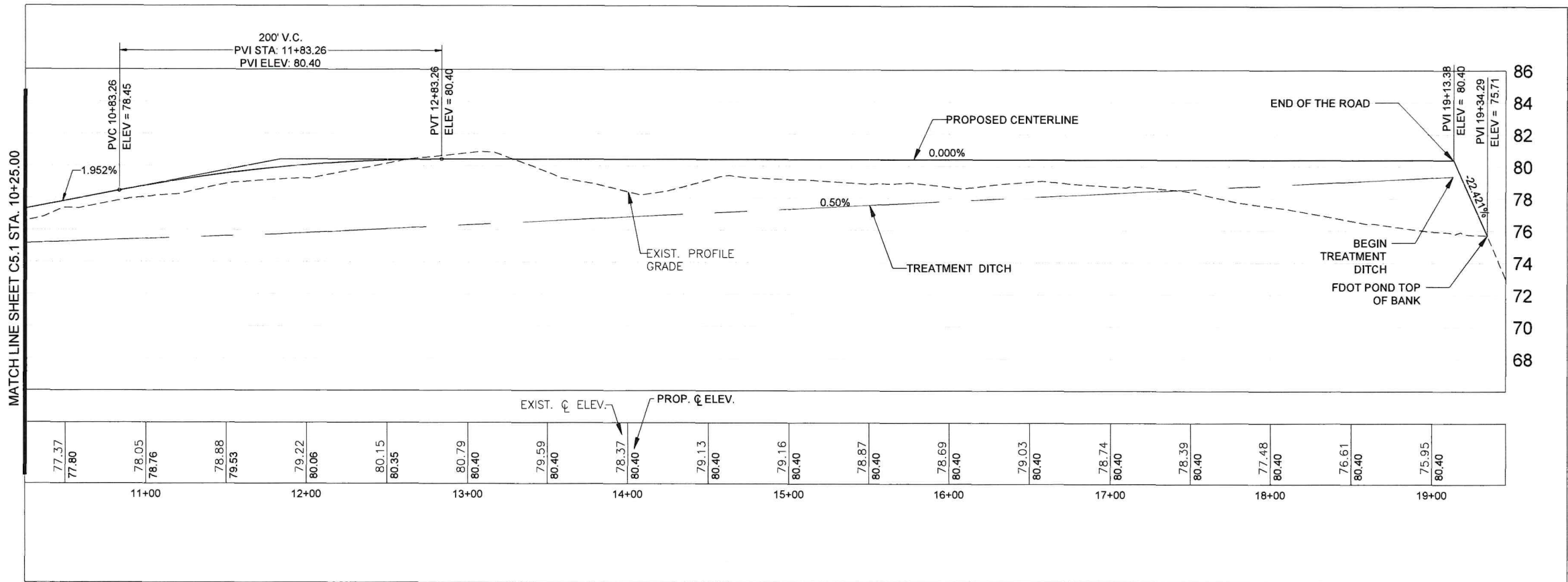
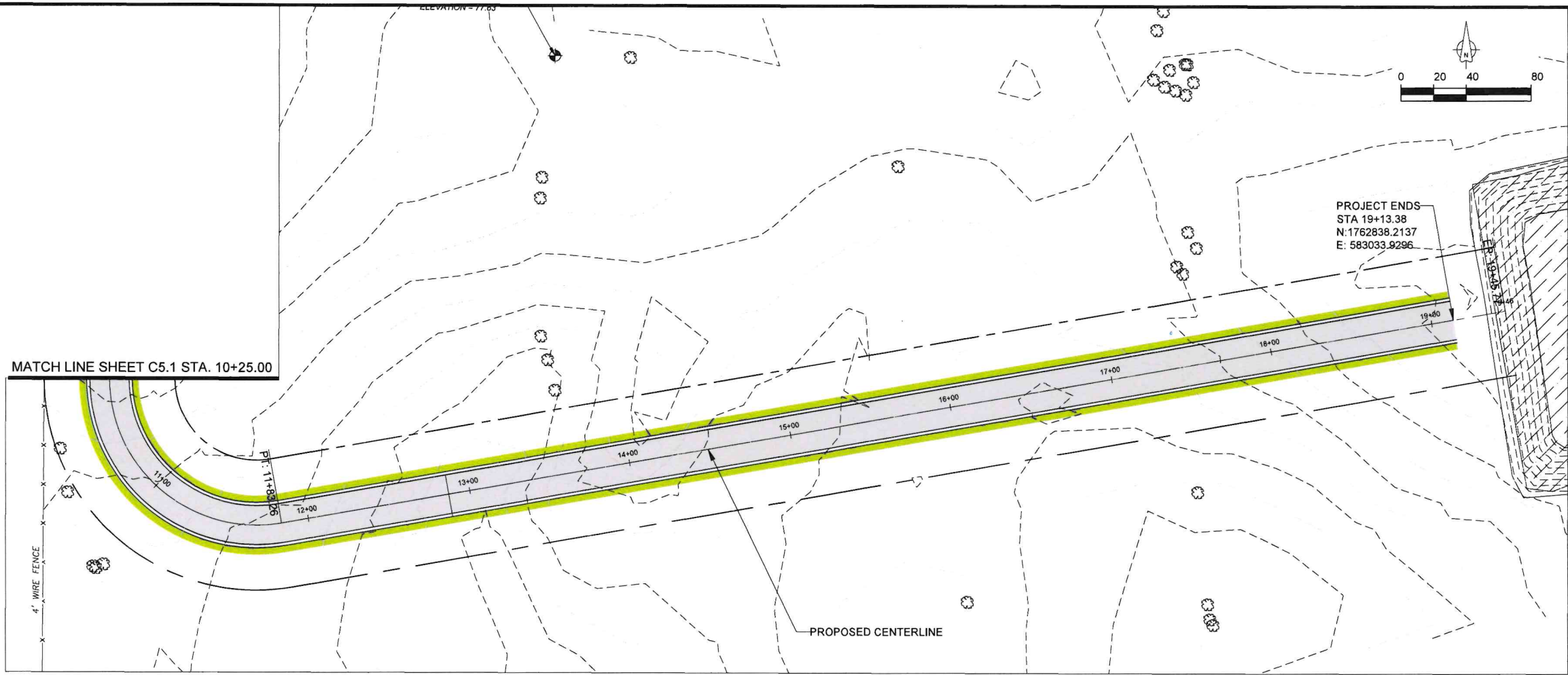
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OCALA



INFRASTRUCTURE
CONSULTING & ENGINEERING
5550 WEST IDLEWILD AVE, SUITE 115
TAMPA, FLORIDA 33634 (813) 330-2701
CERTIFICATE OF AUTHORIZATION NO.: 30862

Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:
MA

Checked By:
TL

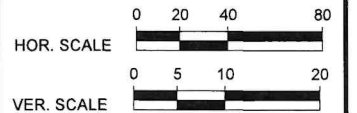
Technician:
AM

ICE Project Name:
23-024

Engineer of Record:



NOTES:



REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

PLAN & PROFILE (2 OF 2)

FAA A.I.P. Project No.:

FDOT Project No.:

449858-94-01

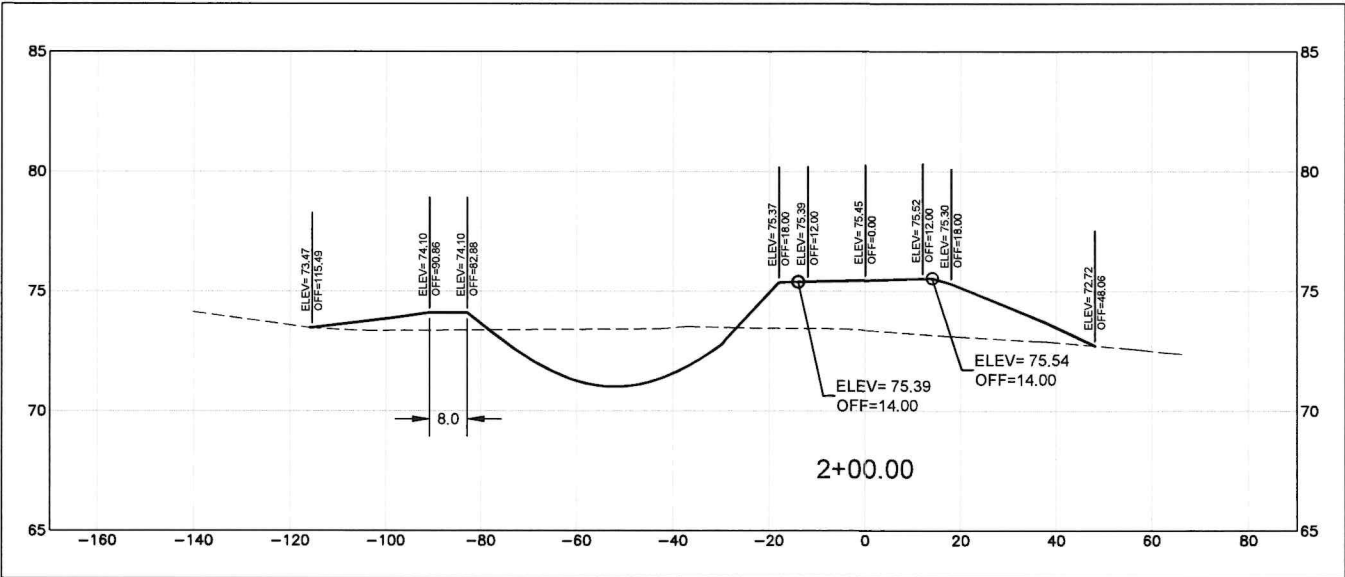
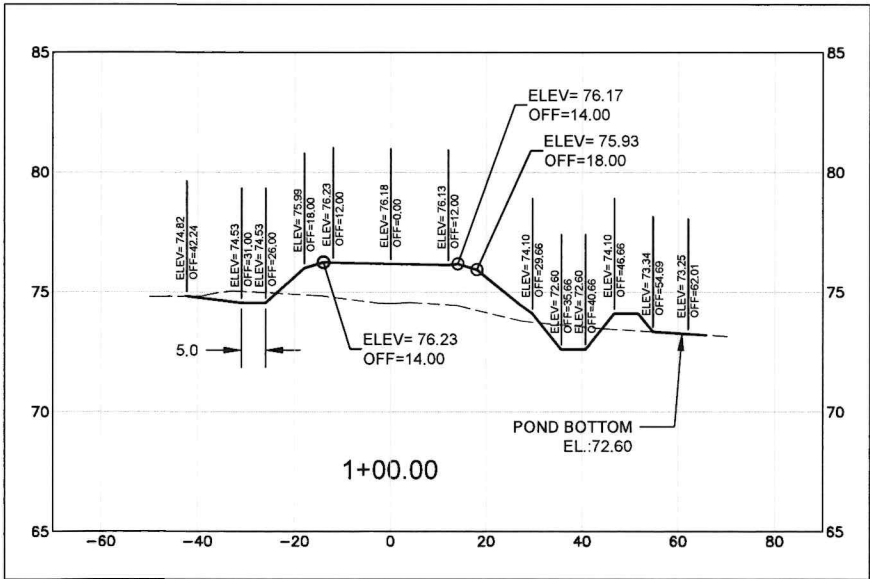
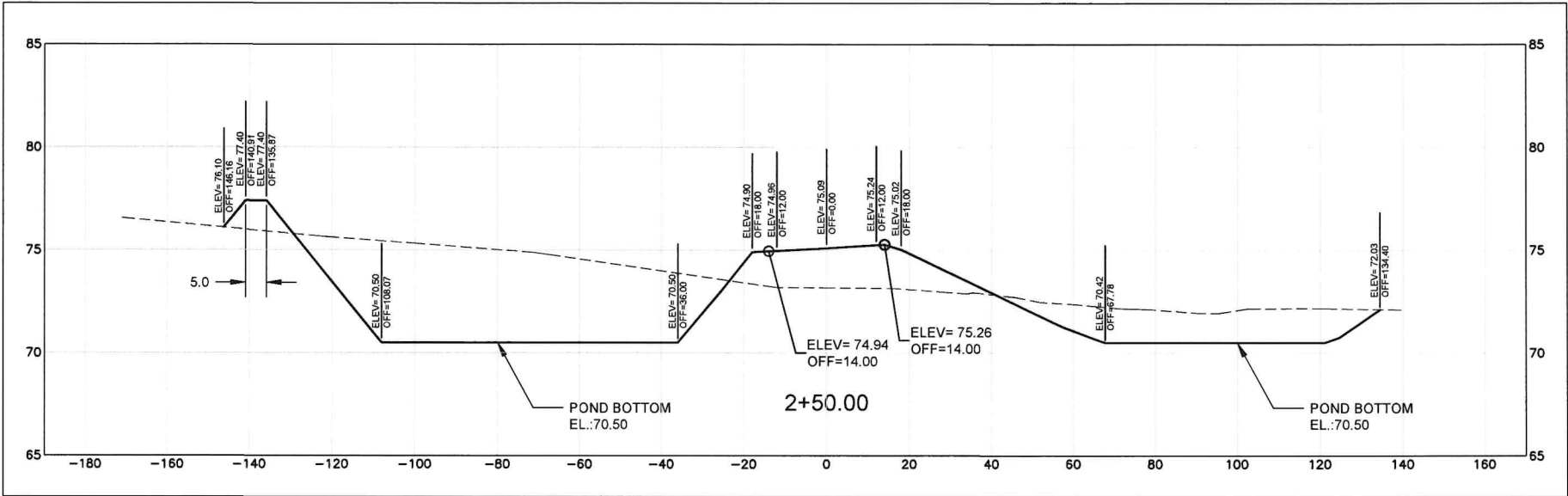
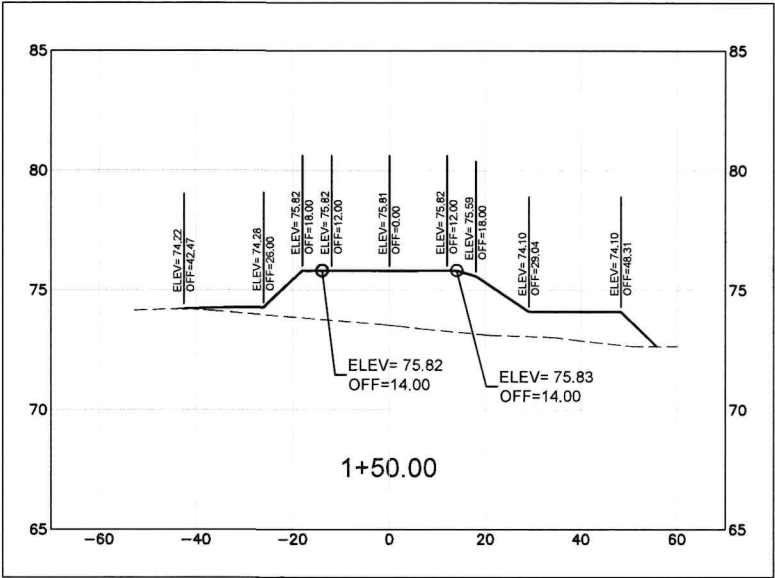
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Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

Technician:

AM

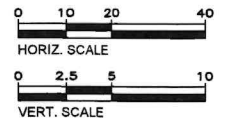
ICE Project Name:

23-024

Engineer of Record:



NOTES:



REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

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FDOT Project No.:

449858-94-01

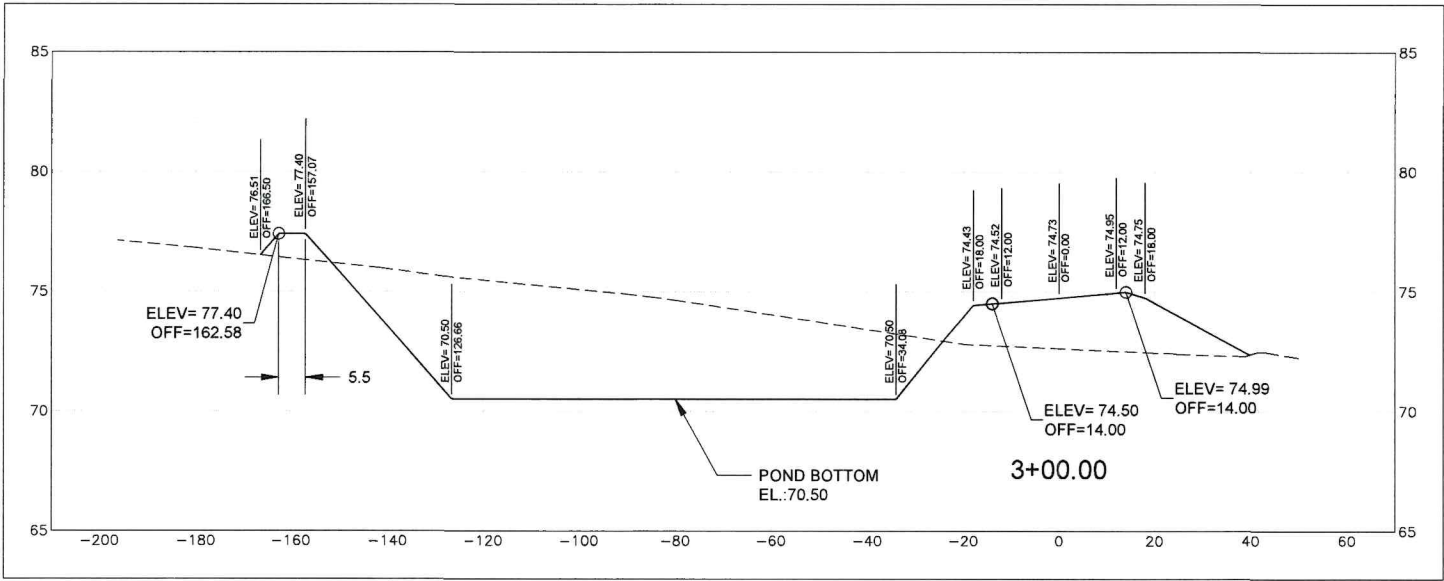
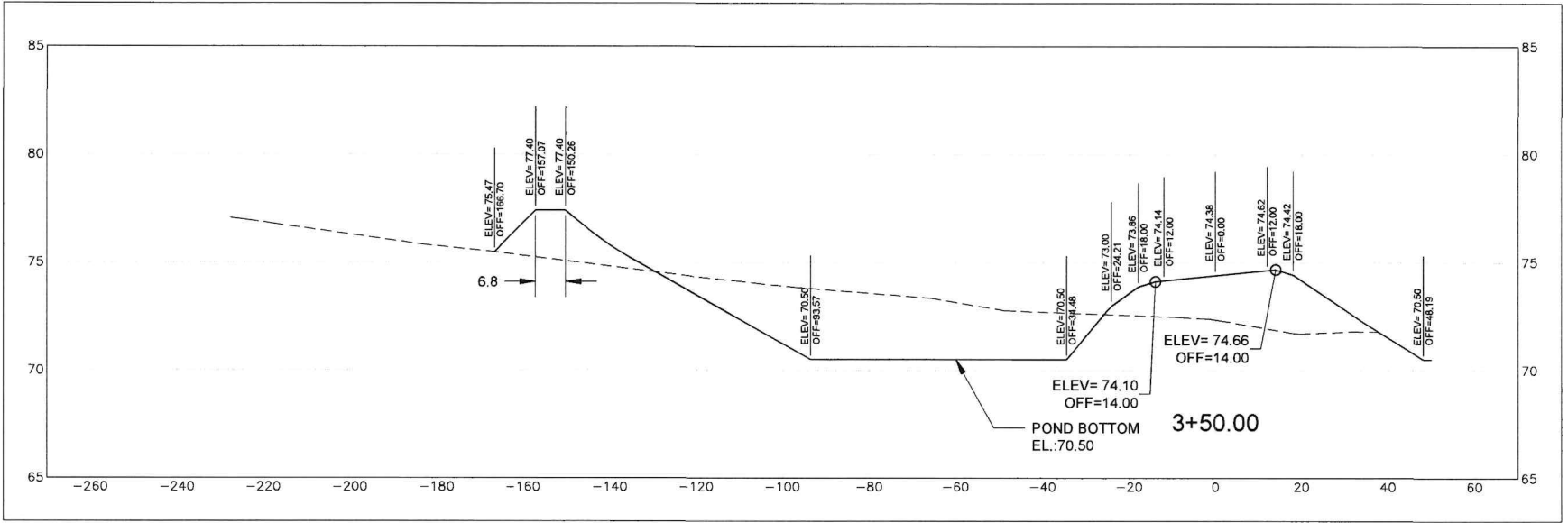
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Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

Technician:

AM

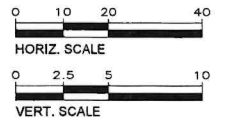
ICE Project Name:

23-024

Engineer of Record:



NOTES:



REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

CROSS SECTIONS (2 OF 11)

FAA A.I.P. Project No.:

FDOT Project No.:

449858-94-01

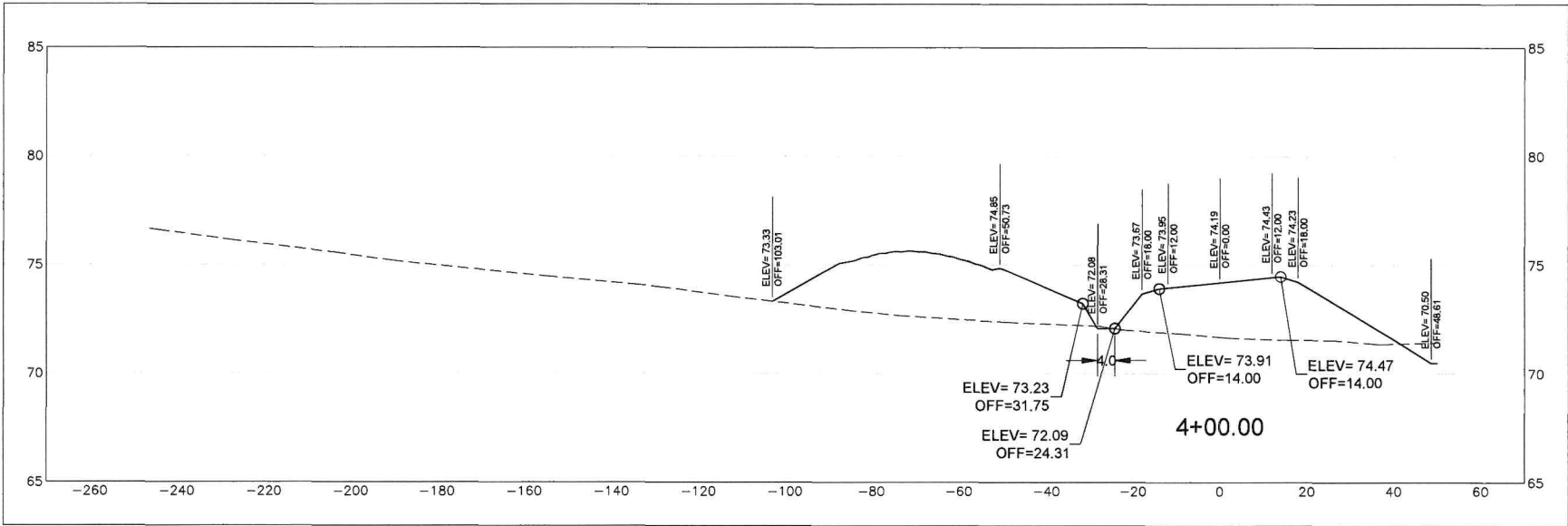
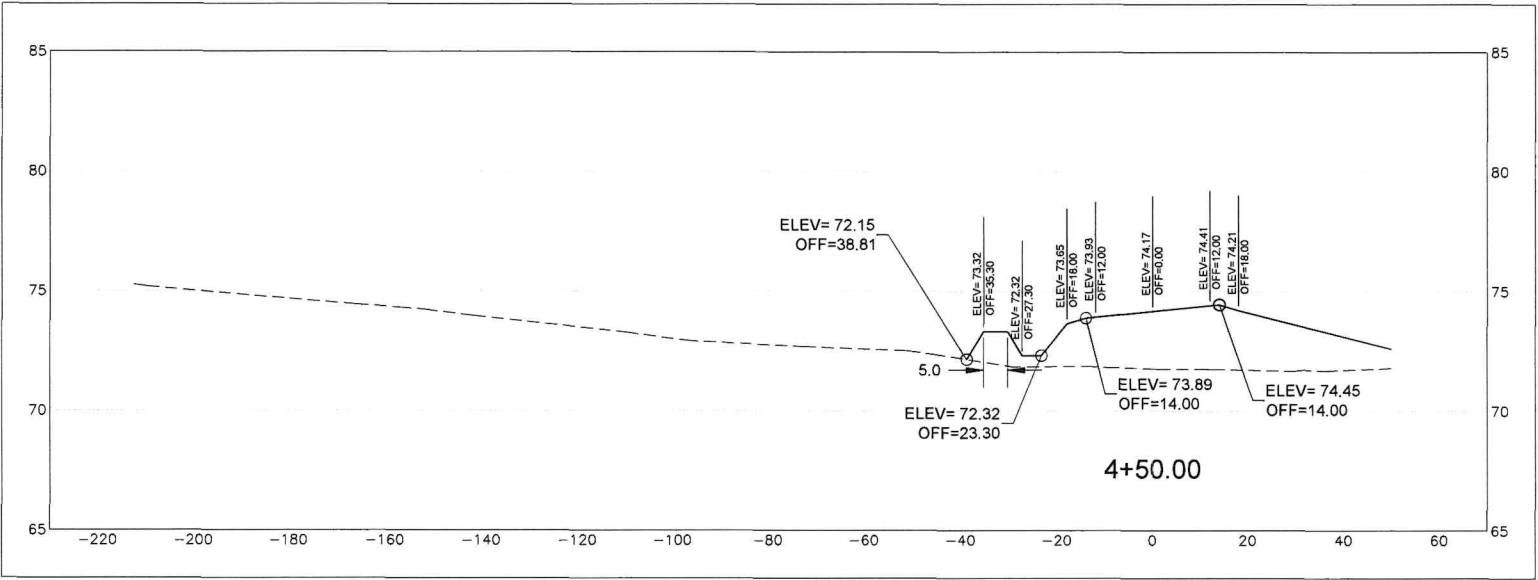
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MARCH 2024

Sheet Number:

C6.2

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Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

Technician:

AM

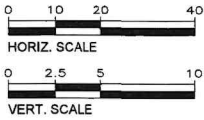
ICE Project Name:

23-024

Engineer of Record:



NOTES:



REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

CROSS SECTIONS (3 OF 11)

FAA A.I.P. Project No.:

FDOT Project No.:

449858-94-01

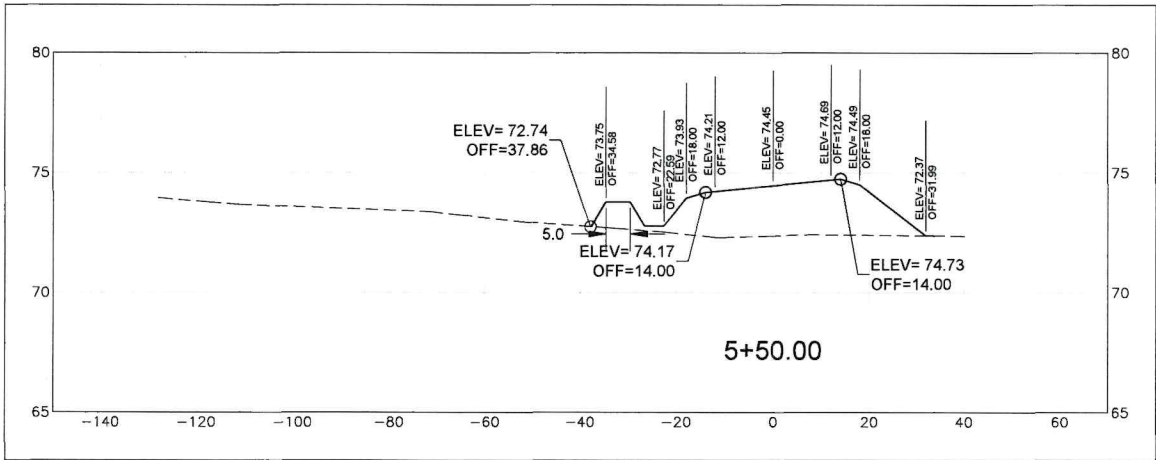
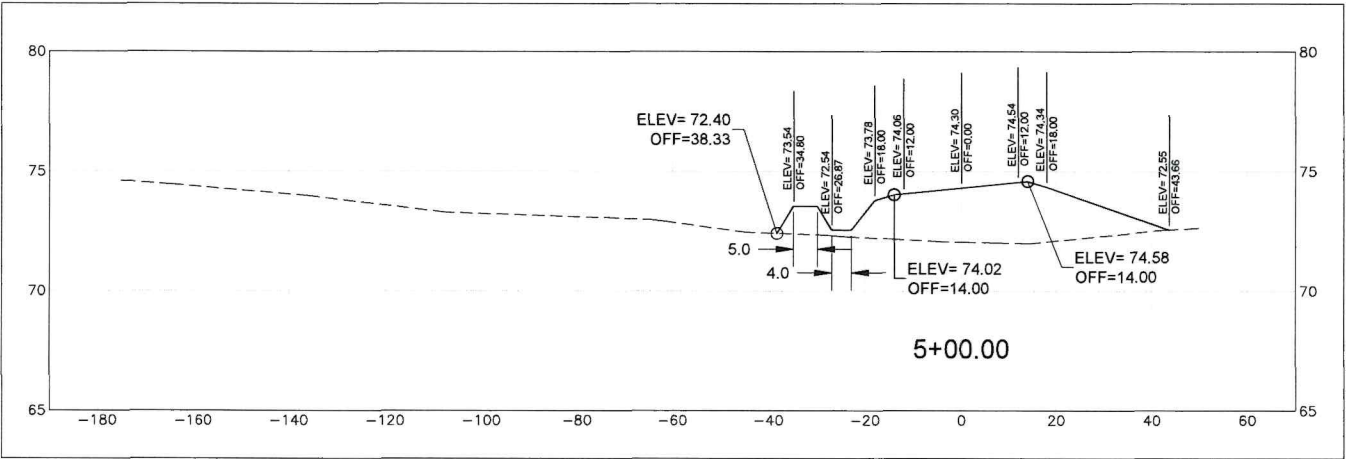
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MARCH 2024

Sheet Number:

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Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

Technician:

AM

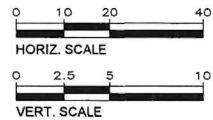
ICE Project Name:

23-024

Engineer of Record:



NOTES:



REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

CROSS SECTIONS (4 OF 11)

FAA A.I.P. Project No.:

FDOT Project No.:

449858-94-01

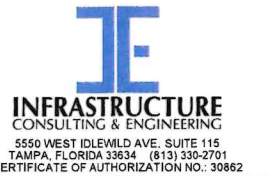
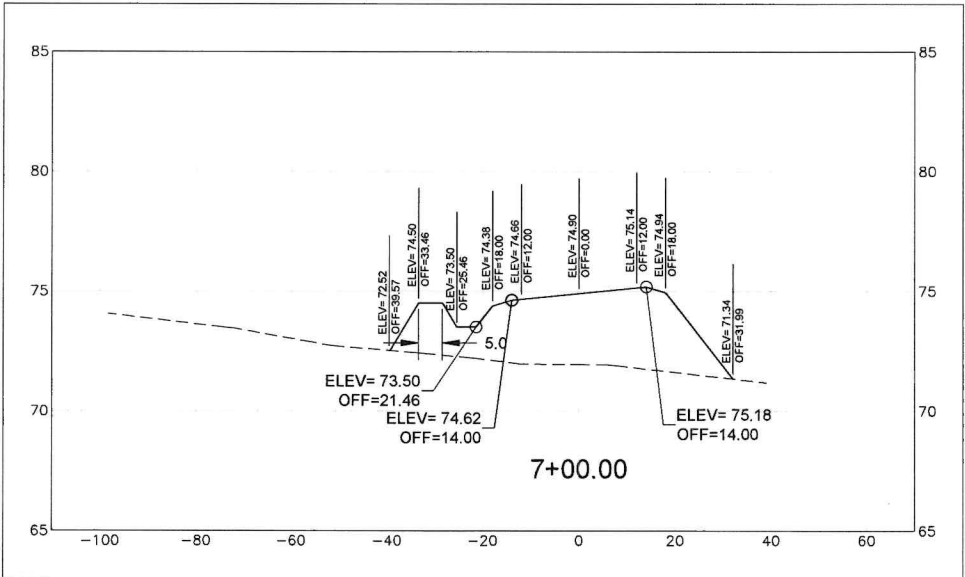
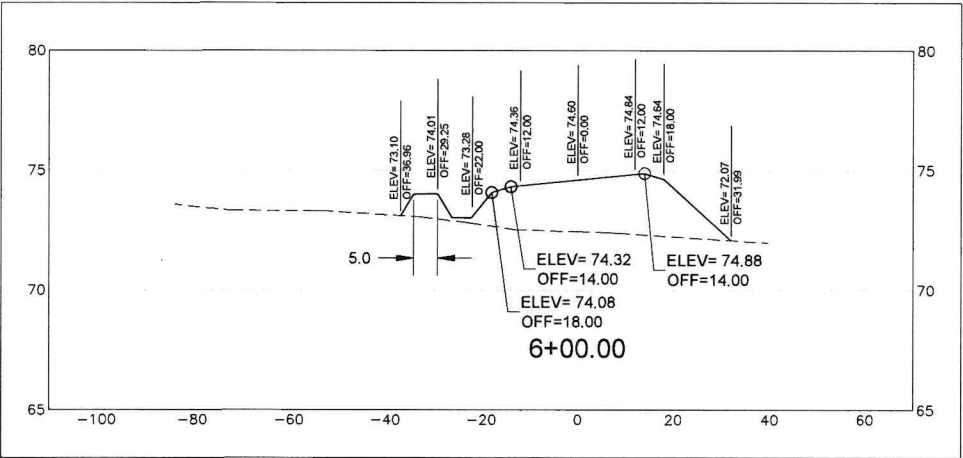
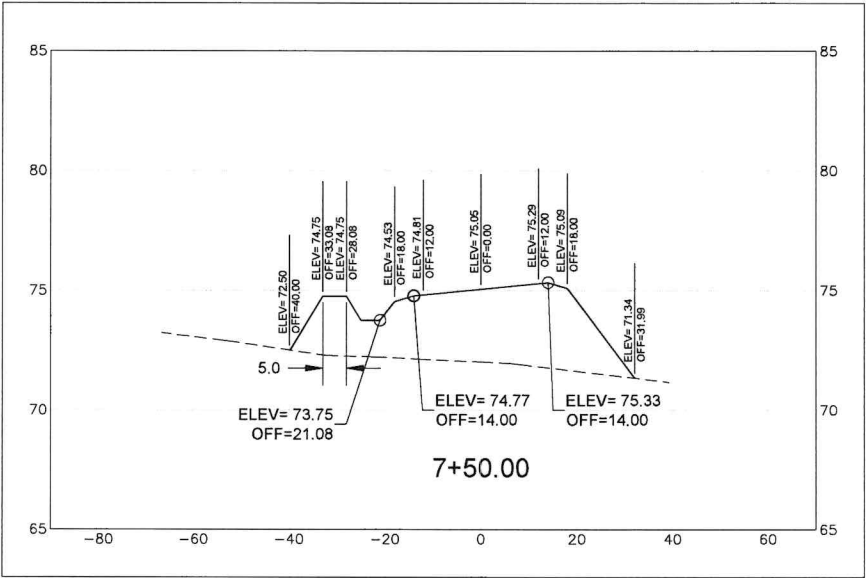
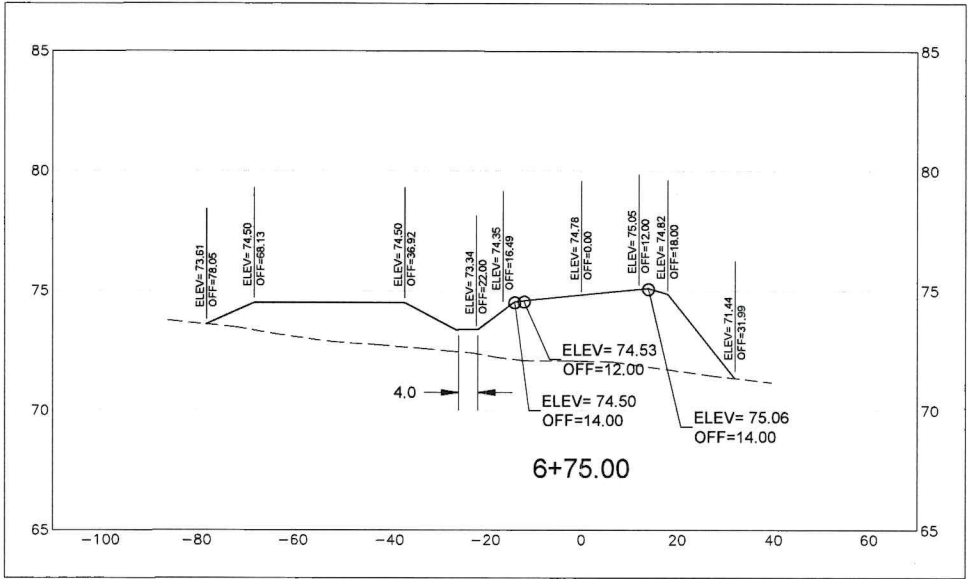
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MARCH 2024

Sheet Number:

C6.4

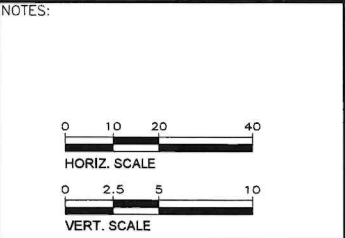
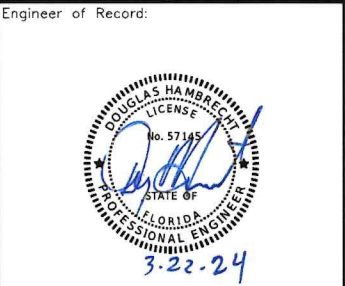
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Project Name:
NORTH DEVELOPMENT ROAD

Designer: MA Checked By: TL

Technician: AM ICE Project Name: 23-024



REVISIONS			
NO.	DESCRIPTION	DATE	BY

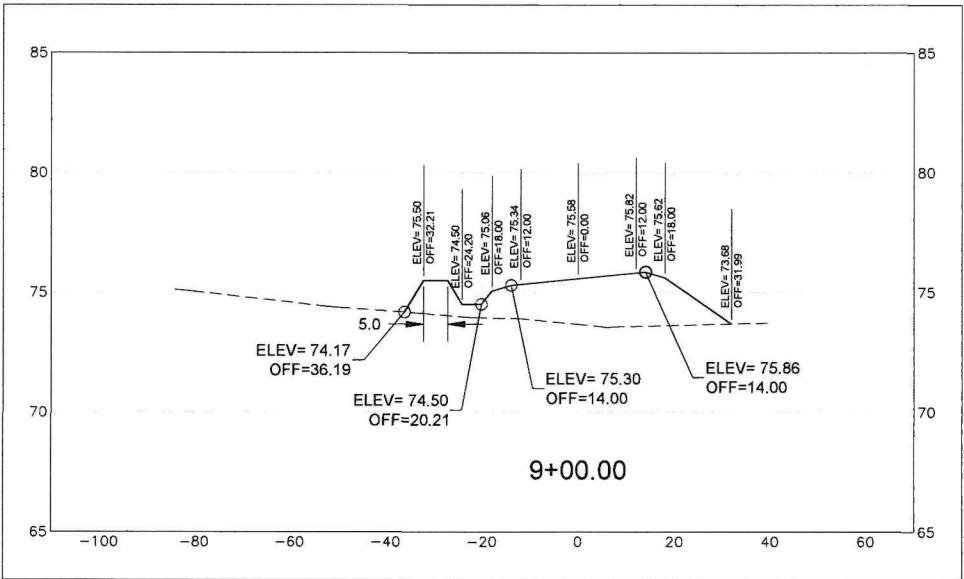
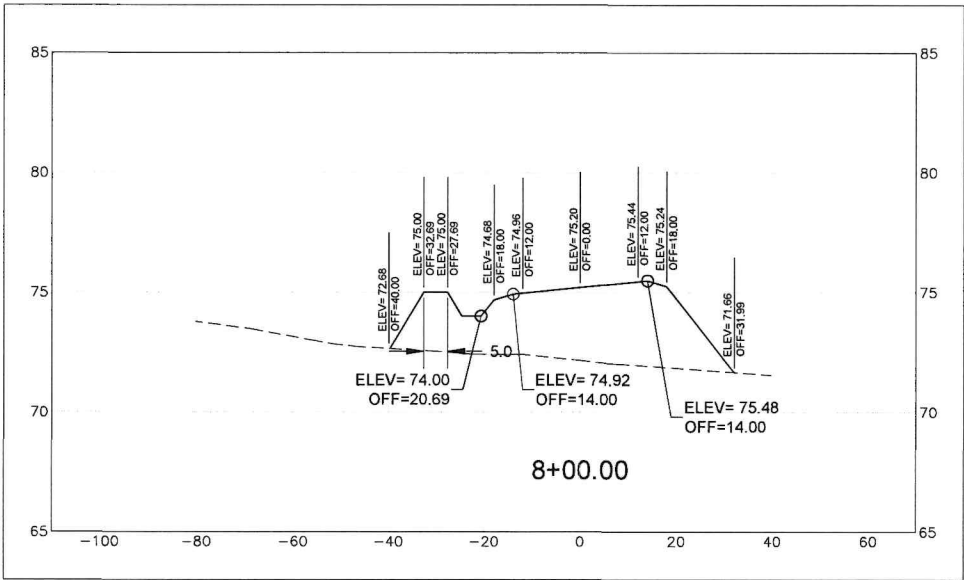
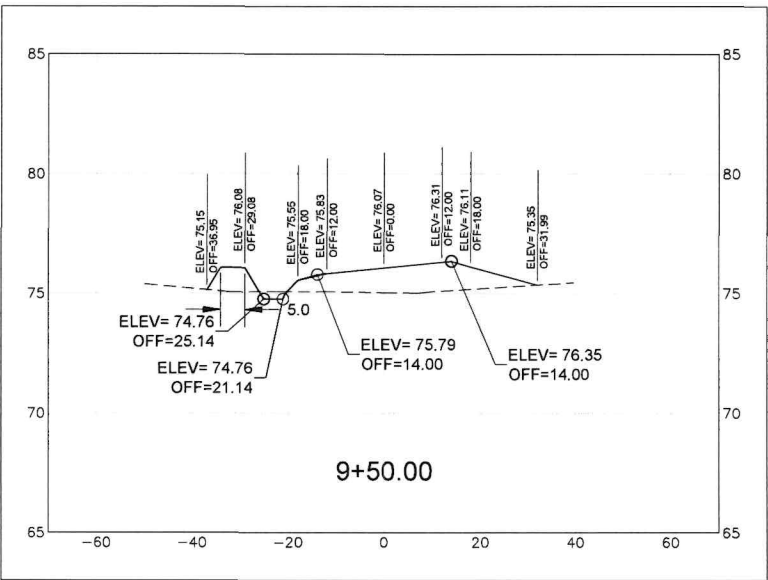
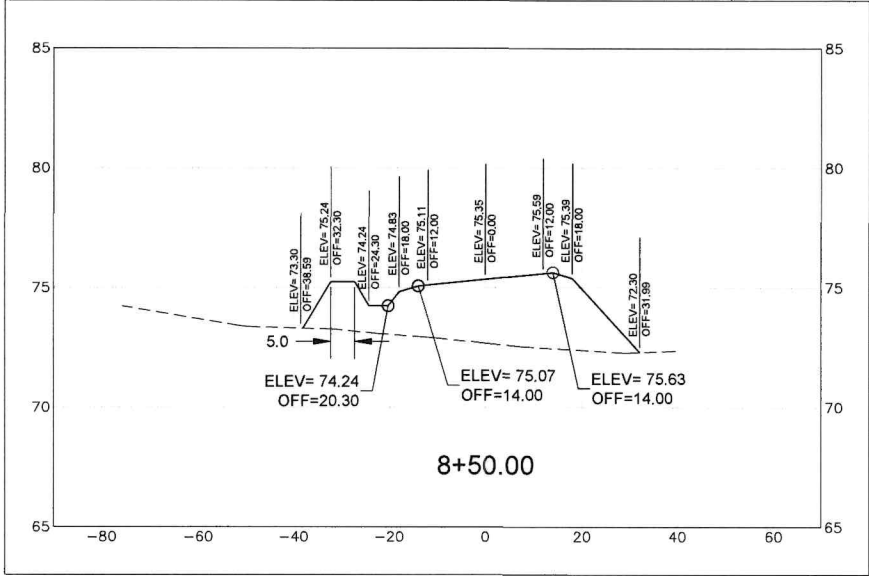
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CROSS SECTIONS (5 OF 11)

FAA A.I.P. Project No.: -

FDOT Project No.: 449858-94-01

Date: MARCH 2024 Sheet Number: C6.5

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Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

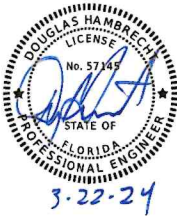
Technician:

AM

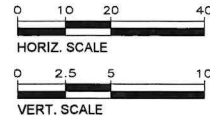
ICE Project Name:

23-024

Engineer of Record:



NOTES:



REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

CROSS SECTIONS (6 OF 11)

FAA A.I.P. Project No.:

FDOT Project No.:

449858-94-01

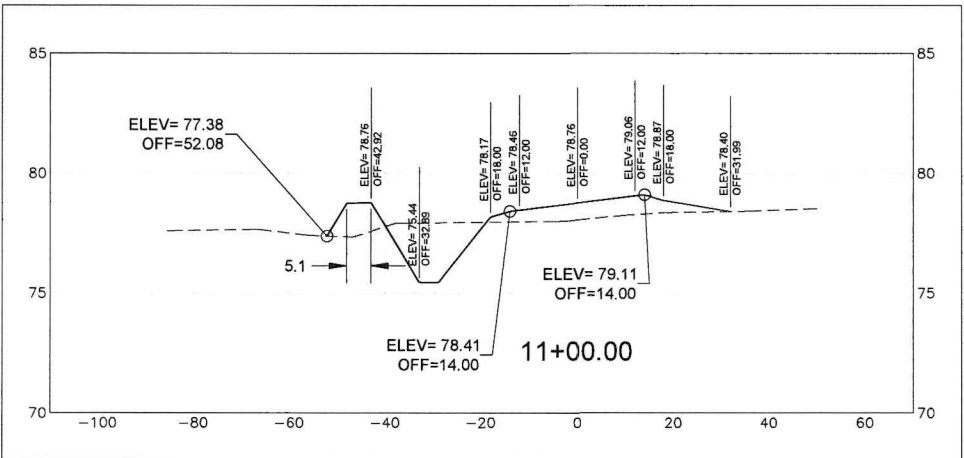
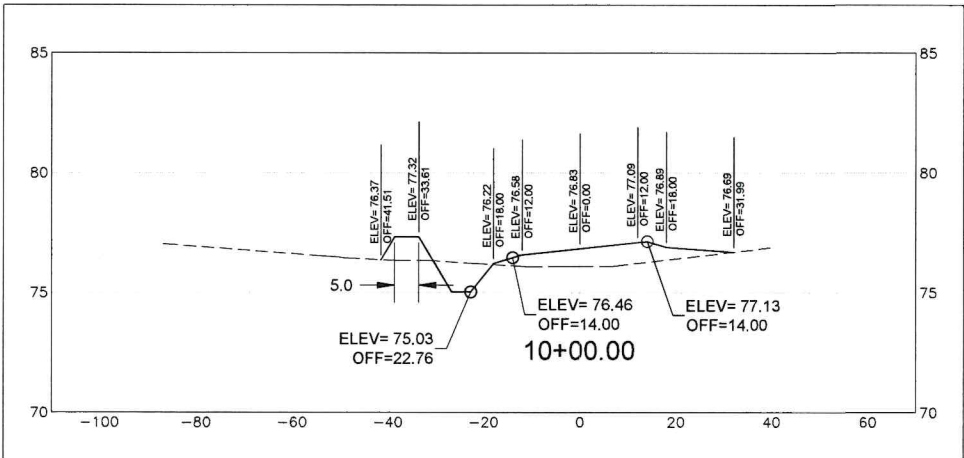
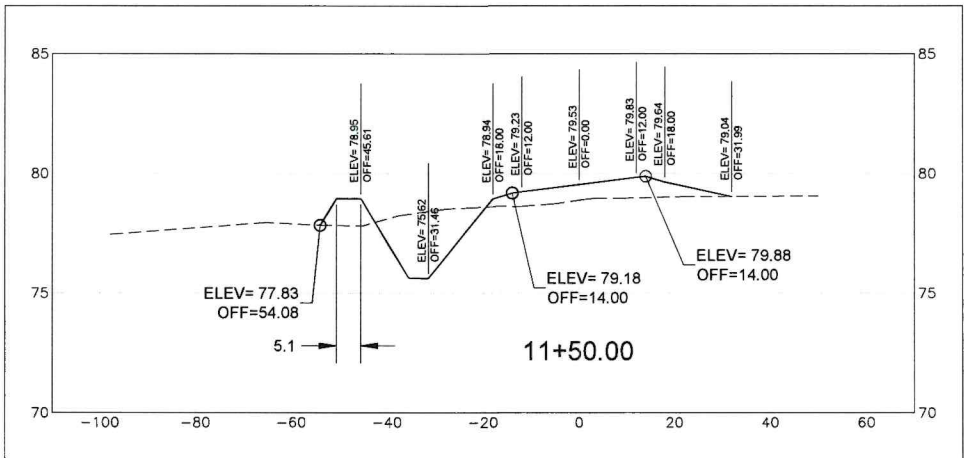
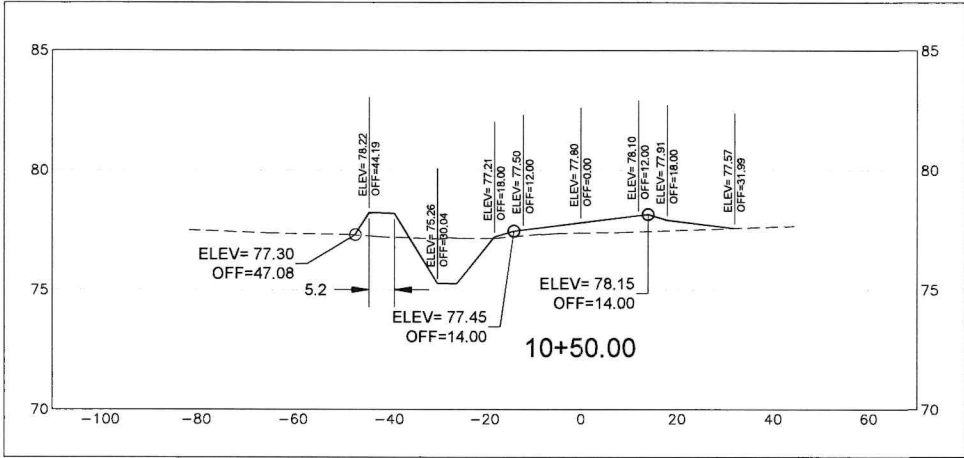
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MARCH 2024

Sheet Number:

C6.6

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Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

Technician:

AM

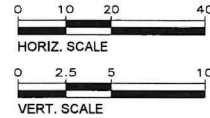
ICE Project Name:

23-024

Engineer of Record:



NOTES:



REVISIONS			
NO.	DESCRIPTION	DATE	BY

Drawing Name:

CROSS SECTIONS (7 OF 11)

FAA A.I.P. Project No.:

FDOT Project No.:

449858-94-01

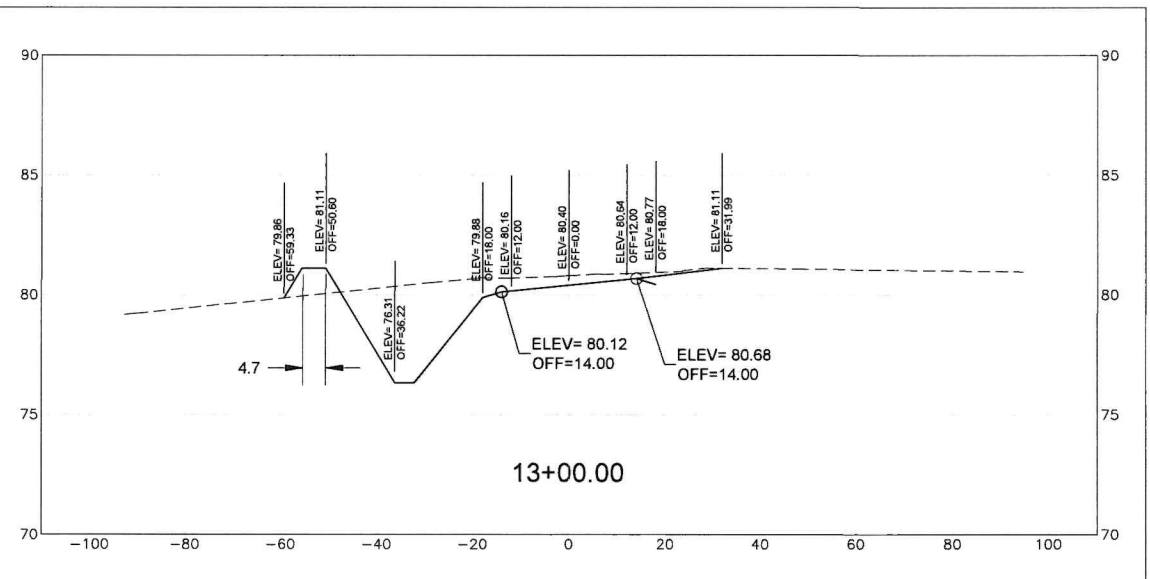
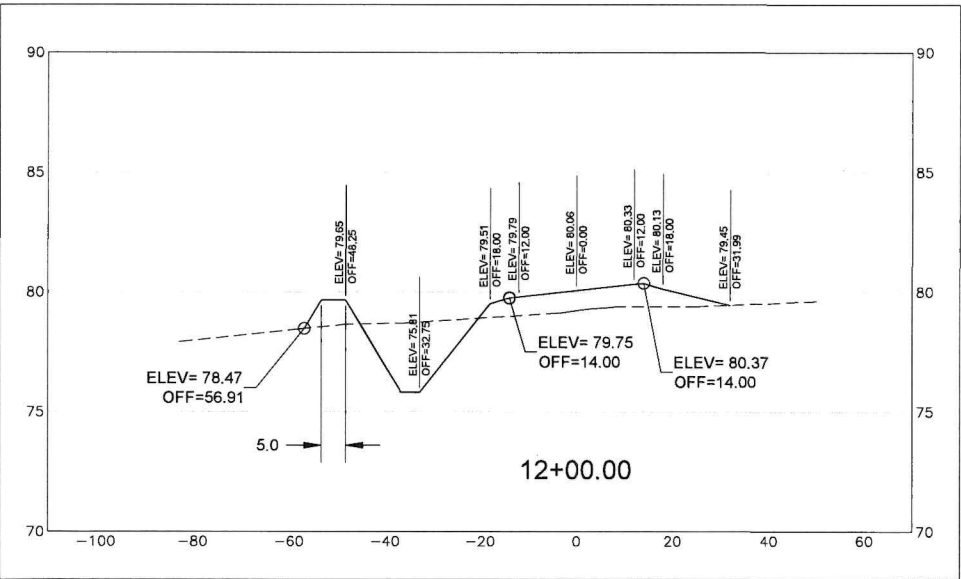
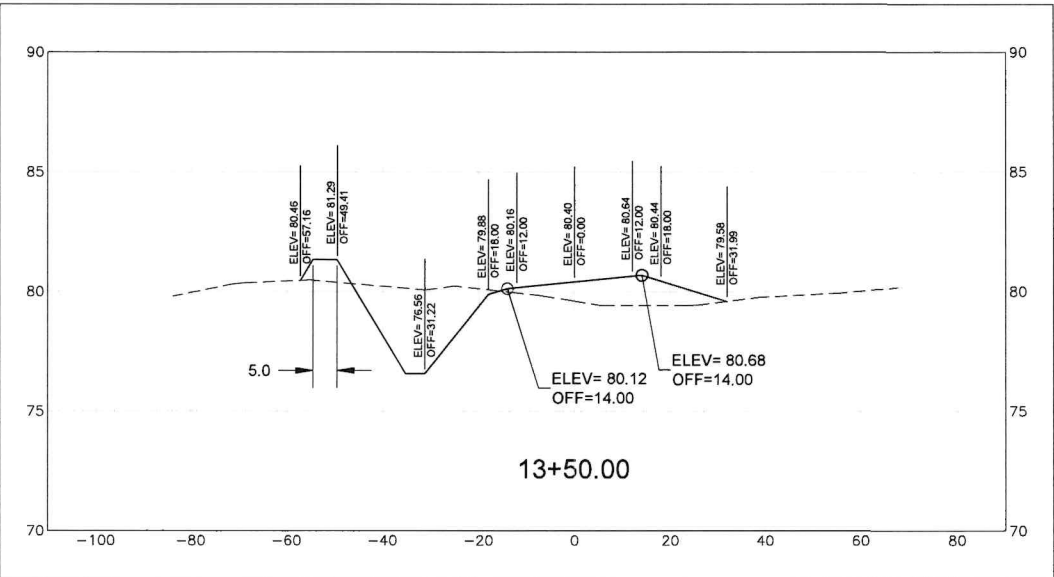
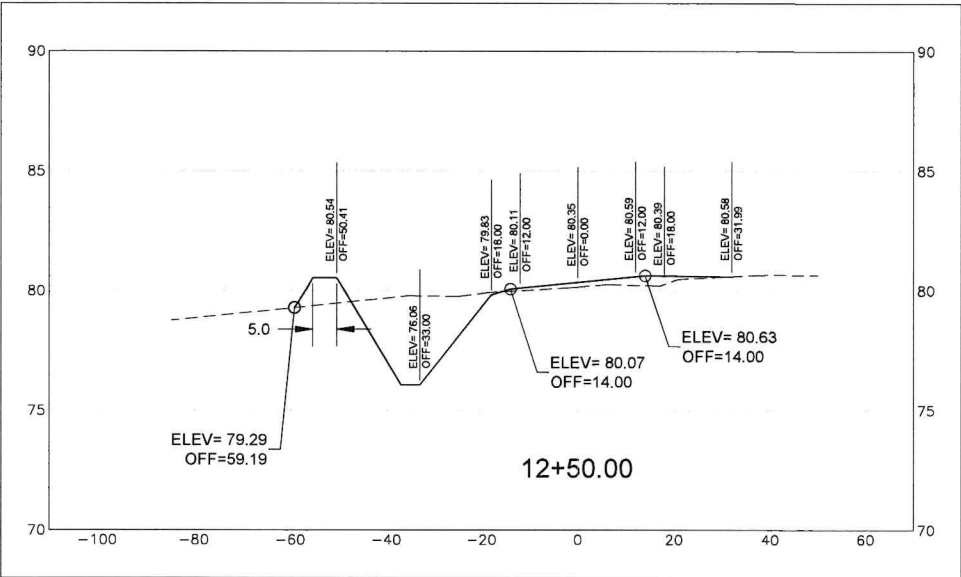
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MARCH 2024

Sheet Number:

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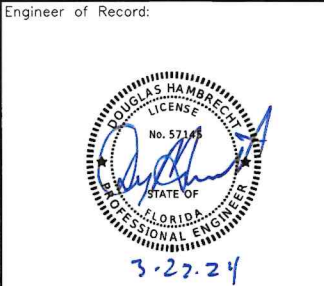
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Project Name:
NORTH DEVELOPMENT ROAD

Designer: MA Checked By: TL

Technician: AM ICE Project Name: 23-024



NOTES:

0 10 20 40
HORIZ. SCALE

0 2.5 5 10
VERT. SCALE

REVISIONS			
NO.	DESCRIPTION	DATE	BY

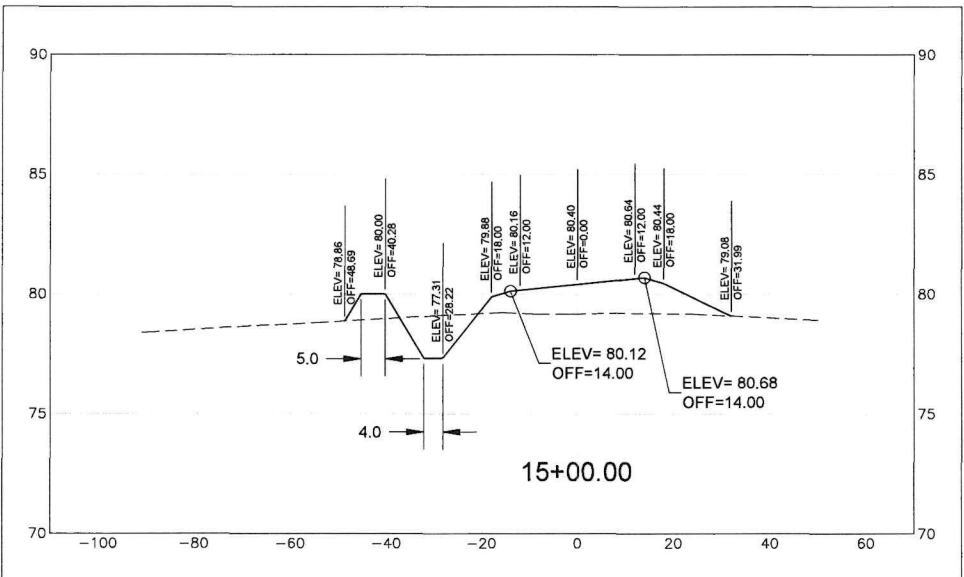
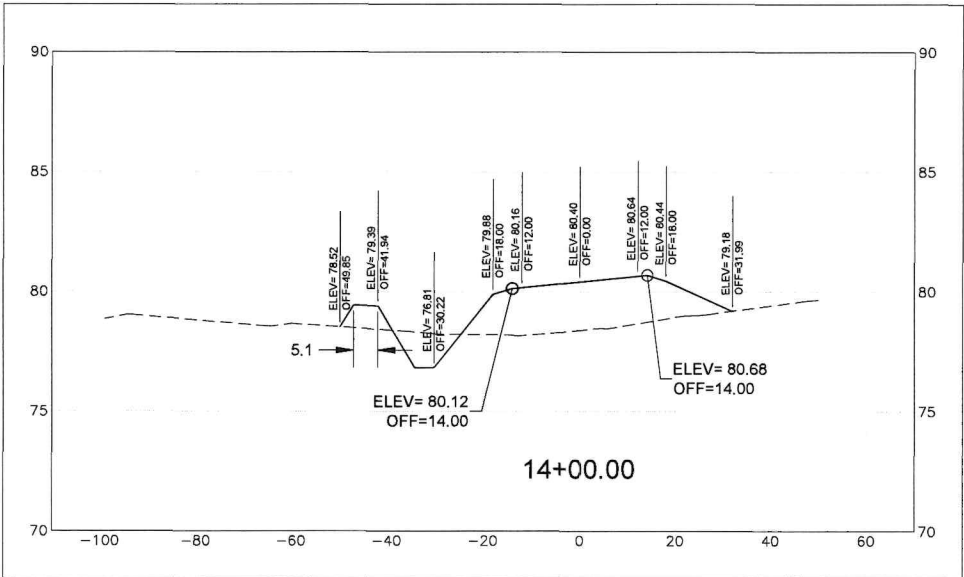
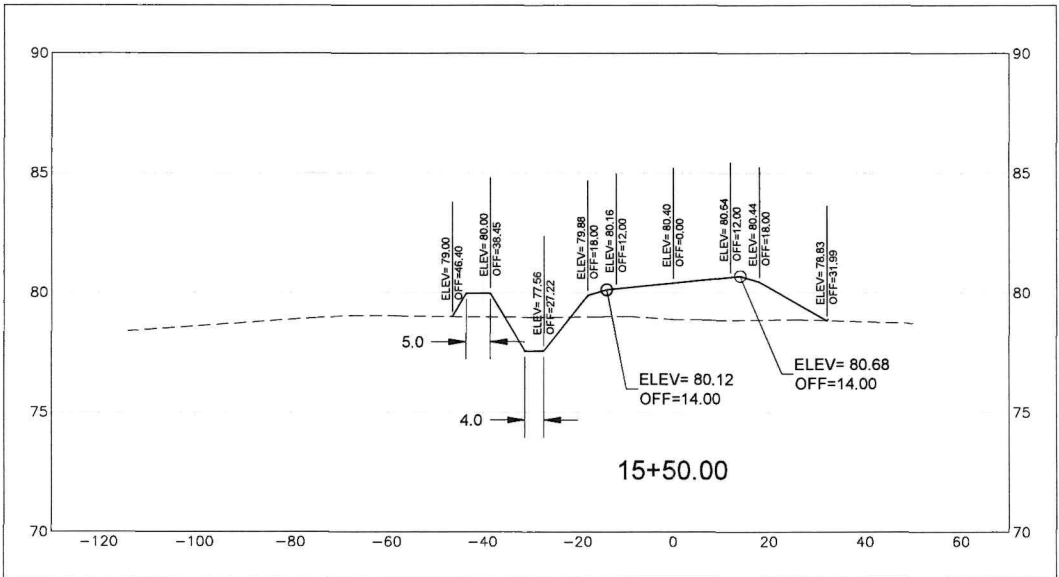
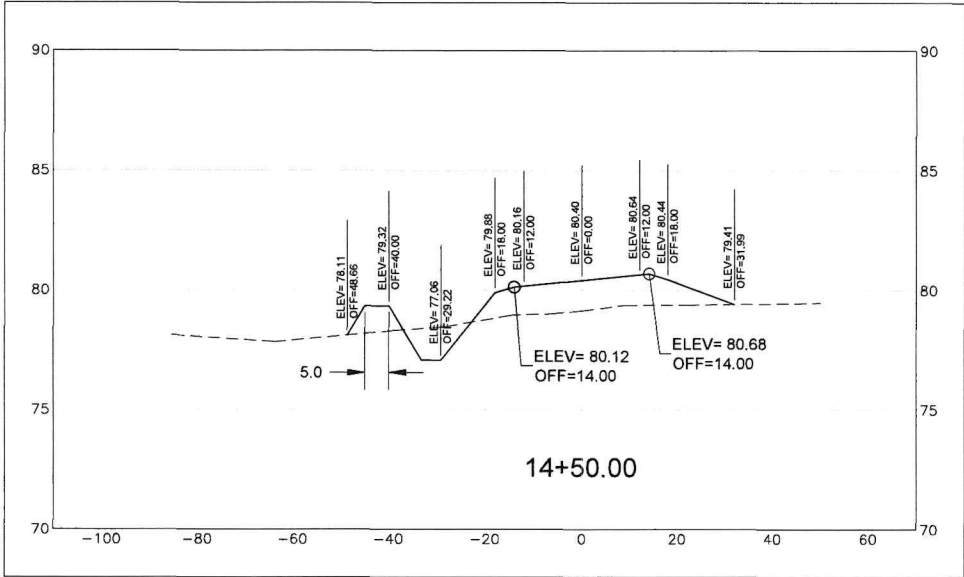
Drawing Name:
CROSS SECTIONS (8 OF 11)

FAA A.I.P. Project No.: -

FDOT Project No.: 449858-94-01

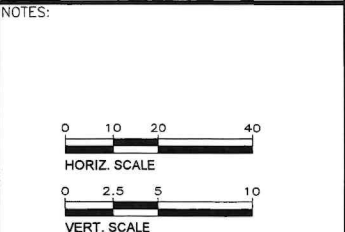
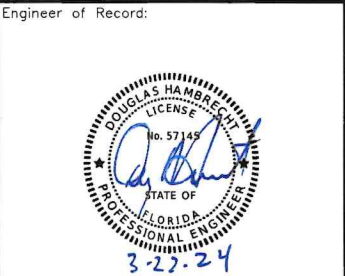
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Project Name:
NORTH DEVELOPMENT ROAD

Designer: MA	Checked By: TL
Technician: AM	ICE Project Name: 23-024



REVISIONS			
NO.	DESCRIPTION	DATE	BY

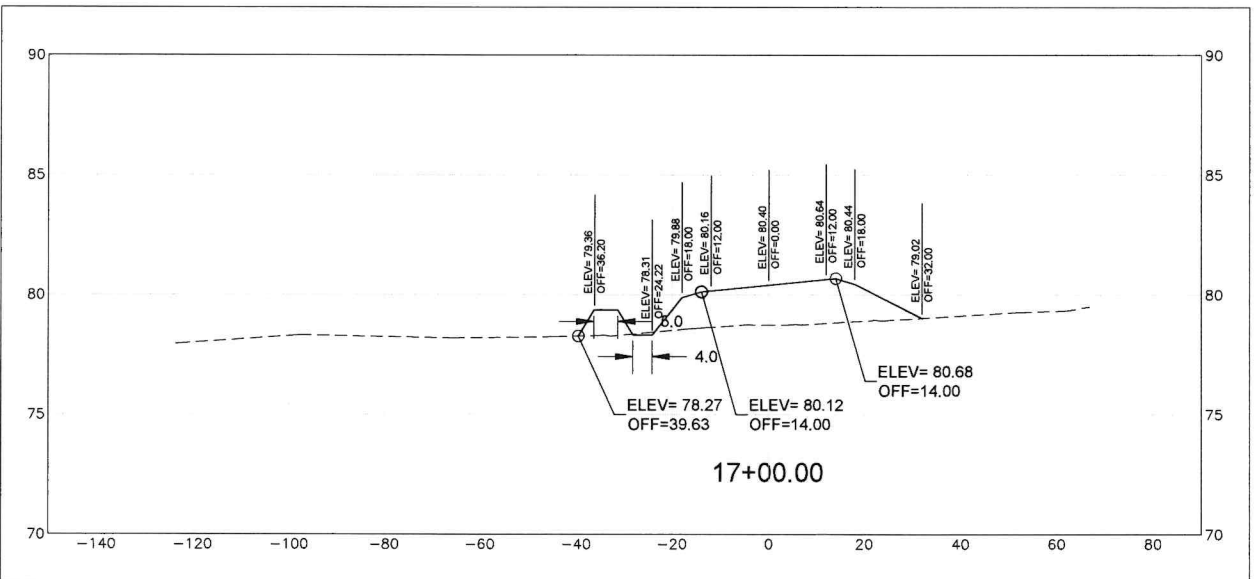
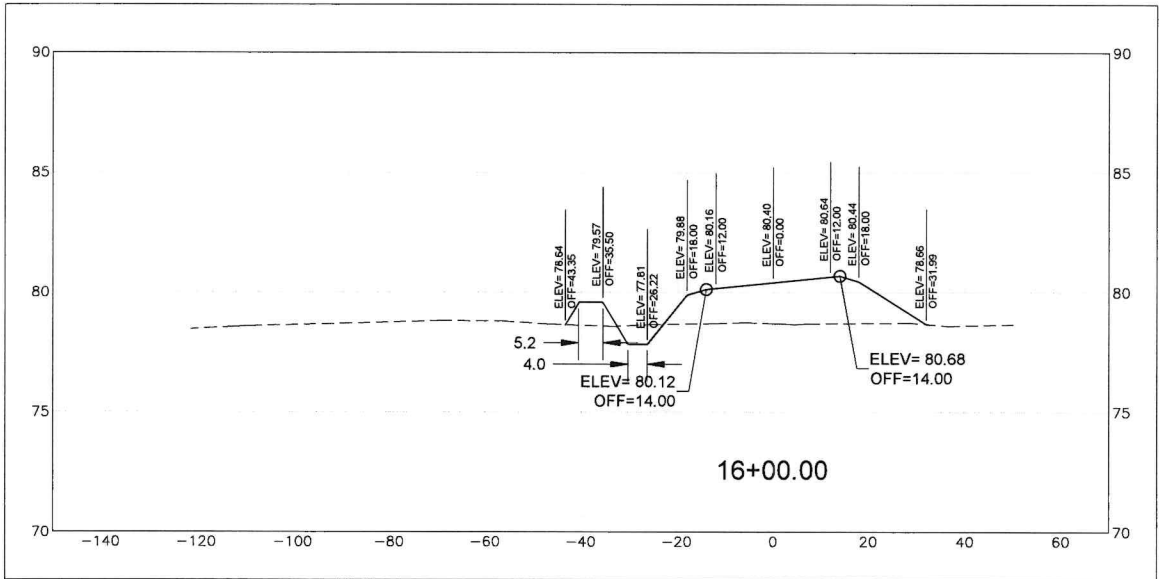
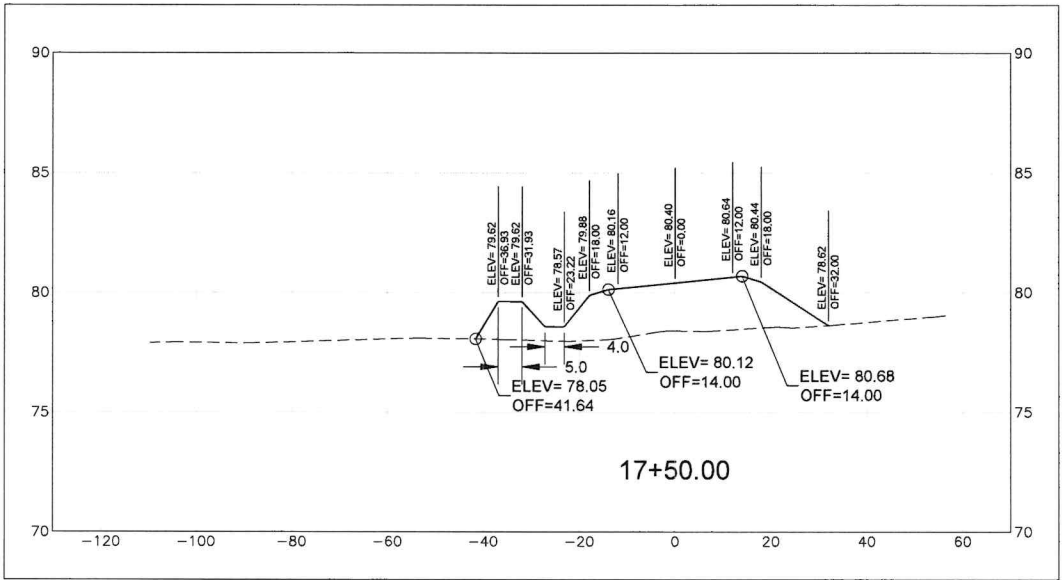
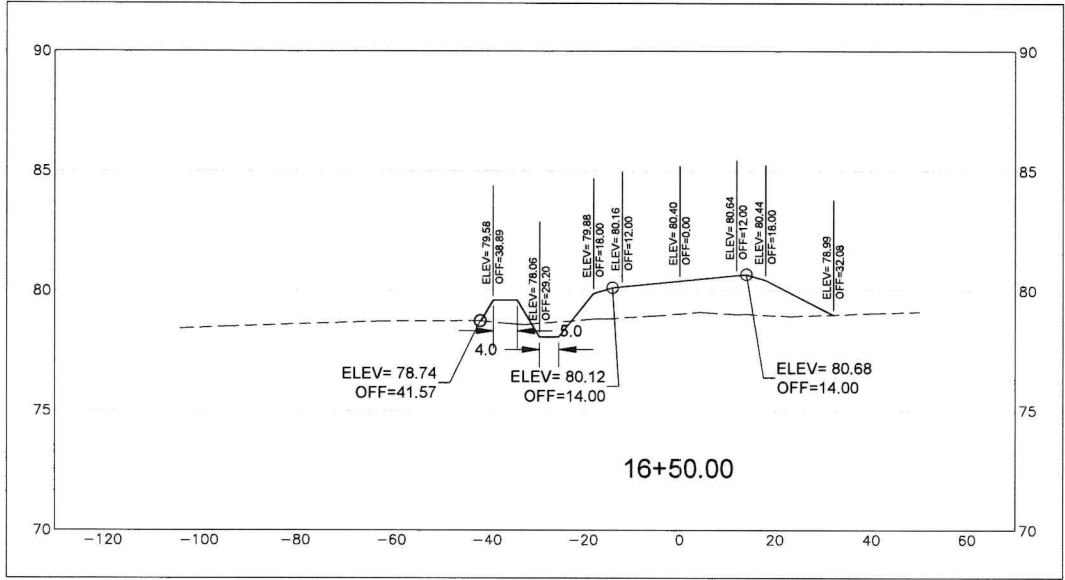
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CROSS SECTIONS (9 OF 11)

FAA A.I.P. Project No.:
-

FDOT Project No.:
449858-94-01

Date: MARCH 2024	Sheet Number: C6.9
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Project Name:
NORTH DEVELOPMENT ROAD

Designer: **MA** Checked By: **TL**

Technician: **AM** ICE Project Name: **23-024**

Engineer of Record:



NOTES:

0 10 20 40
HORIZ. SCALE

0 2.5 5 10
VERT. SCALE

REVISIONS			
NO.	DESCRIPTION	DATE	BY

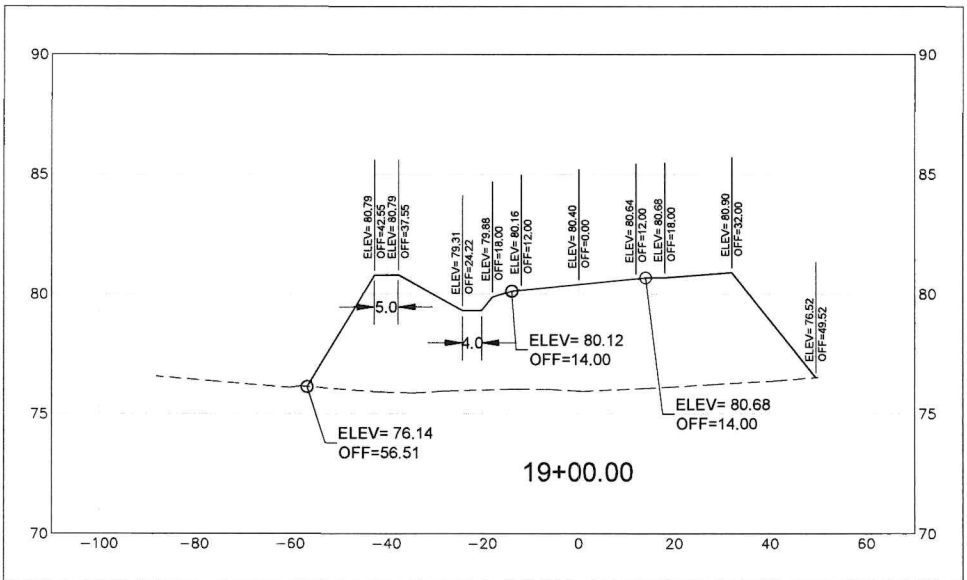
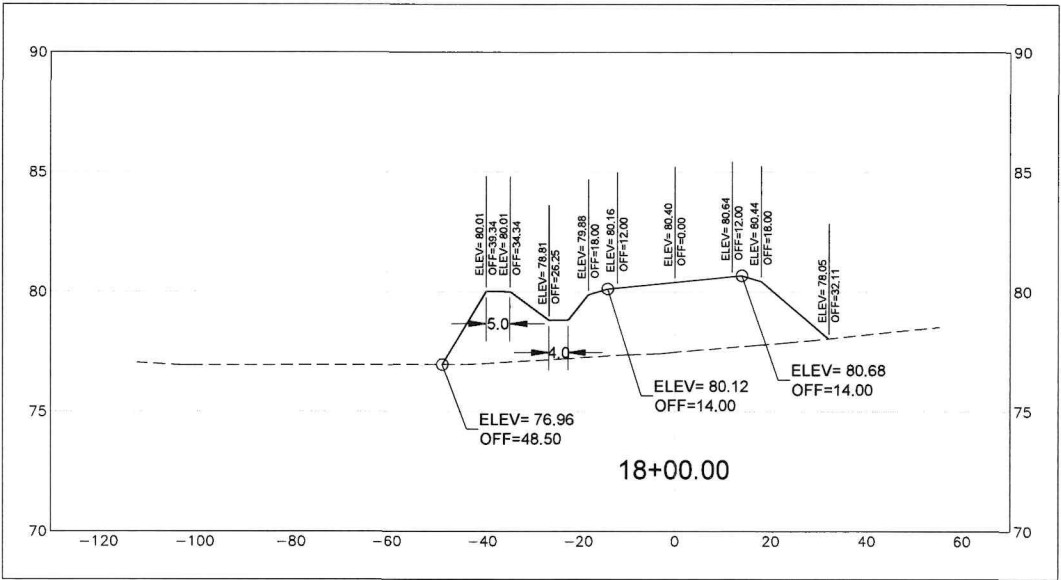
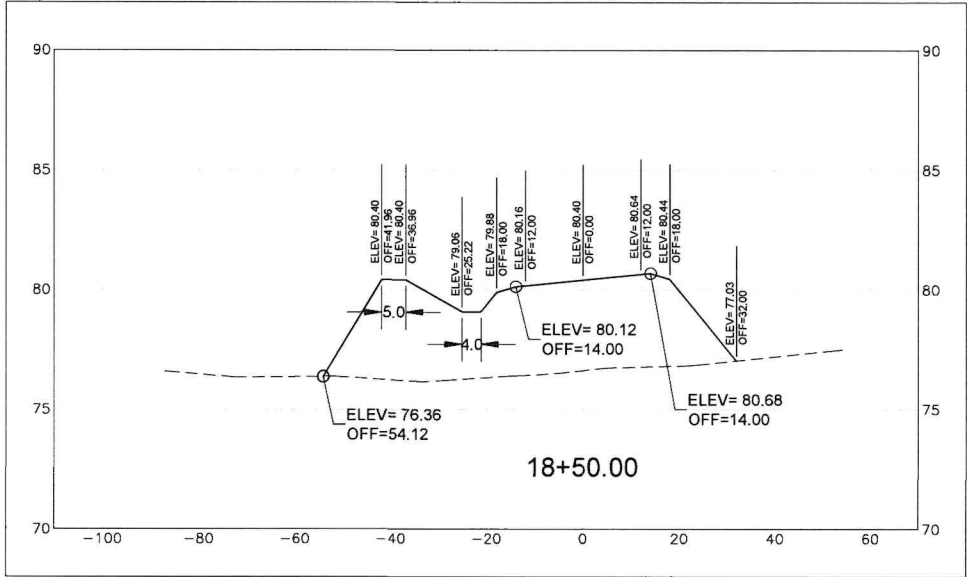
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CROSS SECTIONS (10 OF 11)

FAA A.I.P. Project No.:
-

FDOT Project No.:
449858-94-01

Date: **MARCH 2024** Sheet Number: **C6.10**

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Project Name:
NORTH DEVELOPMENT ROAD

Designer: **MA** Checked By: **TL**

Technician: **AM** ICE Project Name: **23-024**



NOTES:

HORIZ. SCALE: 1" = 40'

VERT. SCALE: 1" = 10'

REVISIONS			
NO.	DESCRIPTION	DATE	BY

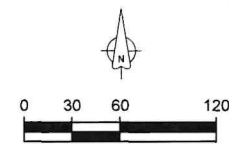
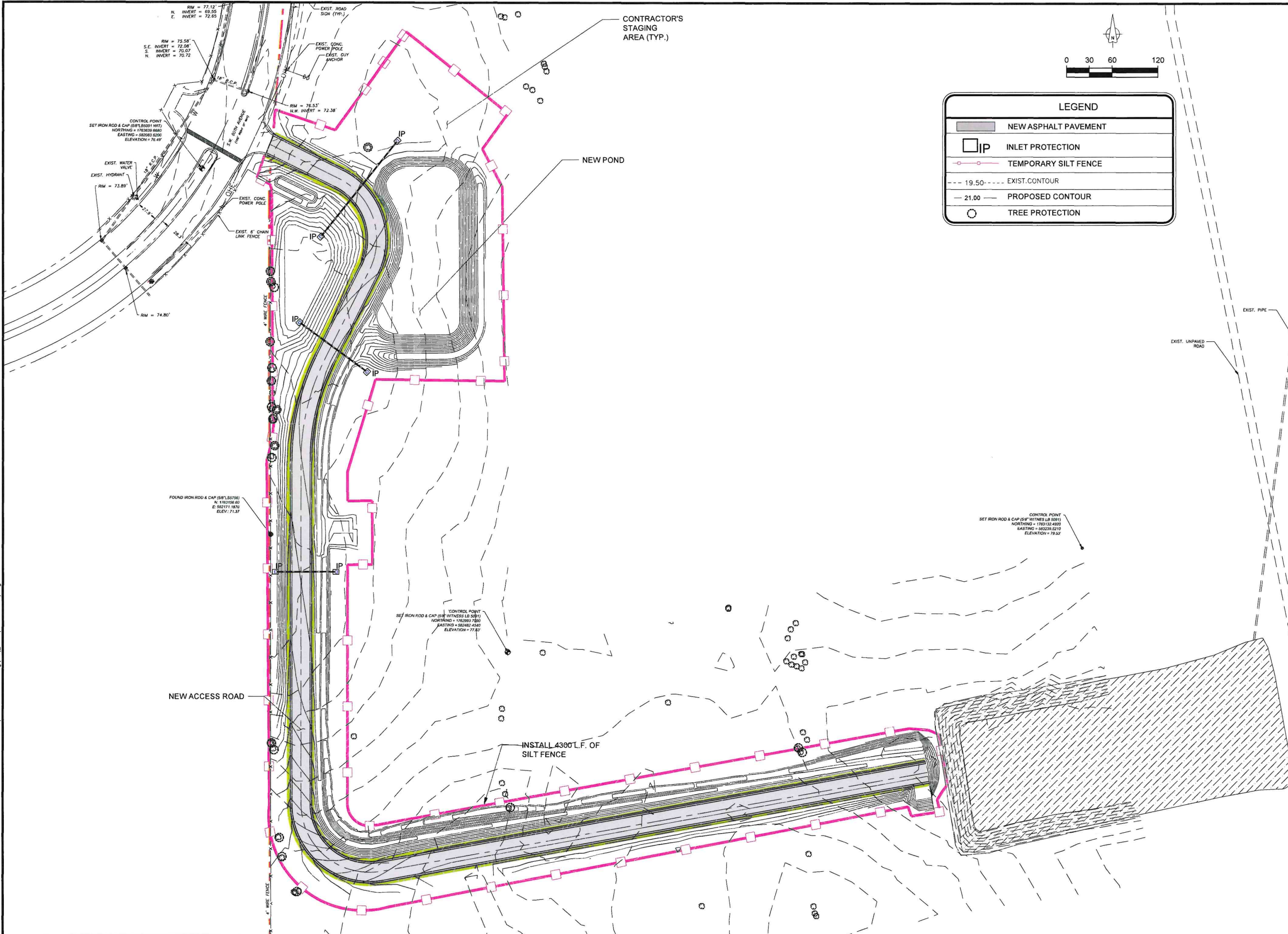
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CROSS SECTIONS (11 OF 11)

FAA A.I.P. Project No.:
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FDOT Project No.:
449858-94-01

Date: **MARCH 2024** Sheet Number: **C6.11**

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LEGEND	
	NEW ASPHALT PAVEMENT
	INLET PROTECTION
	TEMPORARY SILT FENCE
	19.50 EXIST. CONTOUR
	21.00 PROPOSED CONTOUR
	TREE PROTECTION



INFRASTRUCTURE
CONSULTING & ENGINEERING
5550 WEST IDLEHOLD AVE. SUITE 115
TAMPA, FLORIDA 33634 (813) 330-2701
CERTIFICATE OF AUTHORIZATION NO.: 30862

Project Name:	
NORTH DEVELOPMENT ROAD	
Designer:	Checked By:
MA	TL
Technician:	ICE Project Name:
AM	23-024
Engineer of Record:	



NOTES:

REVISIONS			
NO.	DESCRIPTION	DATE	BY

Drawing Name:	
(SWPPP PLAN)	
FAA A.I.P. Project No.:	
-	
FDOT Project No.:	
449858-94-01	
Date:	Sheet Number:
MARCH 2024	C7.1

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STORMWATER POLLUTION PREVENTION PLAN

1. SILT FENCING AND ROCK CHECK STRUCTURES WILL BE REQUIRED TO CONTROL EROSION AS SHOWN ON THE PLANS OR AT LOCATIONS DETERMINED BY THE ENGINEER. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THESE MEASURES THROUGHOUT CONSTRUCTION. ALL EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY EXCAVATION OR CLEARING AND GRUBBING WORK. THE QUANTITY OF TEMPORARY EROSION AND SEDIMENTATION CONTROL DEVICE MAY BE INCREASED OR DECREASED FROM THAT SHOWN IN THE DRAWINGS BASED ON WEATHER, CONSTRUCTION PROCEDURES AND ACTUAL SITE CONDITIONS THAT OCCUR DURING CONSTRUCTION. SUCH VARIATIONS WILL NOT BE CONSIDERED AS ALTERATIONS IN THE DETAILS OF CONSTRUCTION OR A CHANGE IN THE CHARACTER OF WORK.
2. SILT FENCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. FILTER FABRIC FOR SILT FENCE AND INLET PROTECTION SHALL BE IN ACCORDANCE WITH SECTION 985 OF THE FDOT STANDARD SPECIFICATIONS.
3. ALL DISTURBED AREAS ARE TO BE SODDED IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 570 WITHIN 14 DAYS OF THE COMPLETION OF GRADING OPERATIONS AND WITHIN THE PRESCRIBED PHASING SCHEDULE.
4. ANY FINES, PENALTIES, OR OTHER COSTS ASSESSED BY STATE, LOCAL OR OTHER GOVERNMENTAL AGENCIES FOR NON-PERFORMANCE OF THE EROSION CONTROL REQUIREMENTS OF THIS PROJECT AGAINST THE AIRPORT AUTHORITY SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR, AND ANY SUCH ASSESSMENTS, IF NOT PAID BY THE CONTRACTOR, WILL BE DEDUCTED FROM MONIES DUE AT THE COMPLETION OF THE PROJECT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING AN NPDES NOTICE OF INTENT (NOI) TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES FROM FDEP. THE CONTRACTOR WILL ALSO BE REQUIRED TO FILE A NOTICE OF TERMINATION (NOT) AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL BE NAMED AS THE OPERATOR IN THE (NOI) AND MAY ENTER A STATEMENT ON THE FORM THAT "THERE ARE NO ATTACHMENTS SUBMITTED WITH THIS DOCUMENT" TO ADDRESS THAT THE CONTRACTOR DID PREPARE THE STORMWATER POLLUTION PROTECTION PLAN.

MAINTENANCE PLAN

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. SEDIMENT WILL BE REMOVED FROM THE INLET PROTECTION DEVICES WHEN STORAGE CAPACITY HAS BEEN APPROXIMATELY 50% FILLED OR AS DIRECTED BY THE ENGINEER. GRAVEL WILL BE CLEANED OR REPLACED WHEN SEDIMENT POOL NO LONGER DRAINS PROPERLY.
3. SEDIMENT WILL BE REMOVED FROM BEHIND THE TEMPORARY SILT FENCE WHEN IT BECOMES 0.5 FT. DEEP AT THE FENCE. THE TEMPORARY SILT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. TEMPORARY DIVERSION SWALES WILL BE CHECKED AFTER EVERY RAINFALL AND ANY SIGNIFICANT SEDIMENT BUILD UP WILL BE REMOVED AS DIRECTED BY THE ENGINEER.
4. ANY ACCUMULATIONS OF SEDIMENT IN EXISTING STORMWATER BASINS SHALL BE REMOVED AT THE END OF THE PROJECT AND THE AREA SODDED AS DIRECTED BY THE ENGINEER.



Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

Technician:

AM

ICE Project Name:

23-024

Engineer of Record:



NOTES:

REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

(SWPP NOTES)

FAA A.I.P. Project No.:

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FDOT Project No.:

449858-94-01

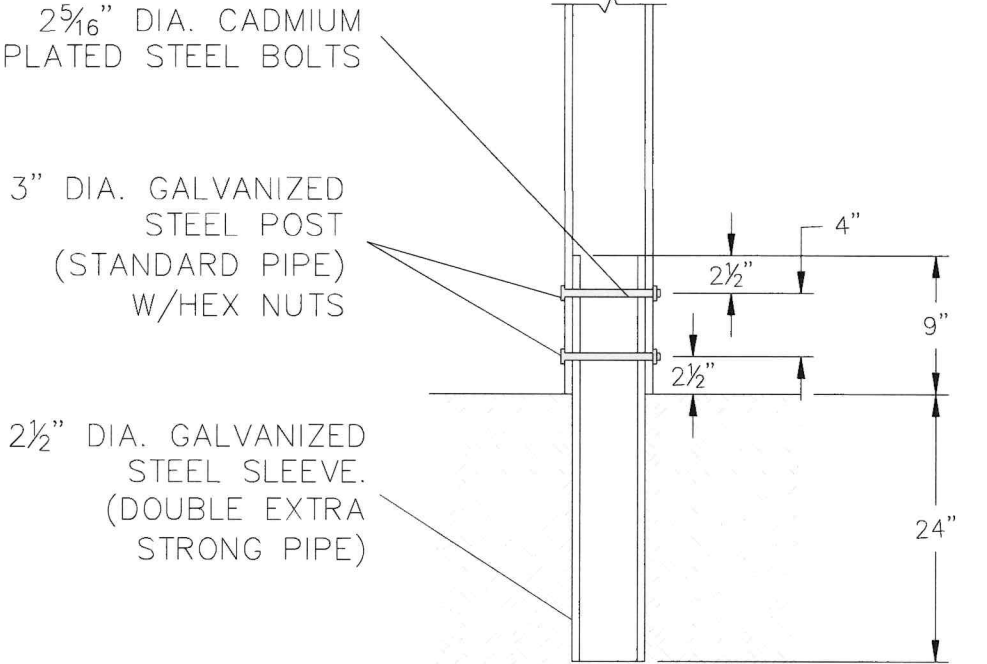
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MARCH 2024

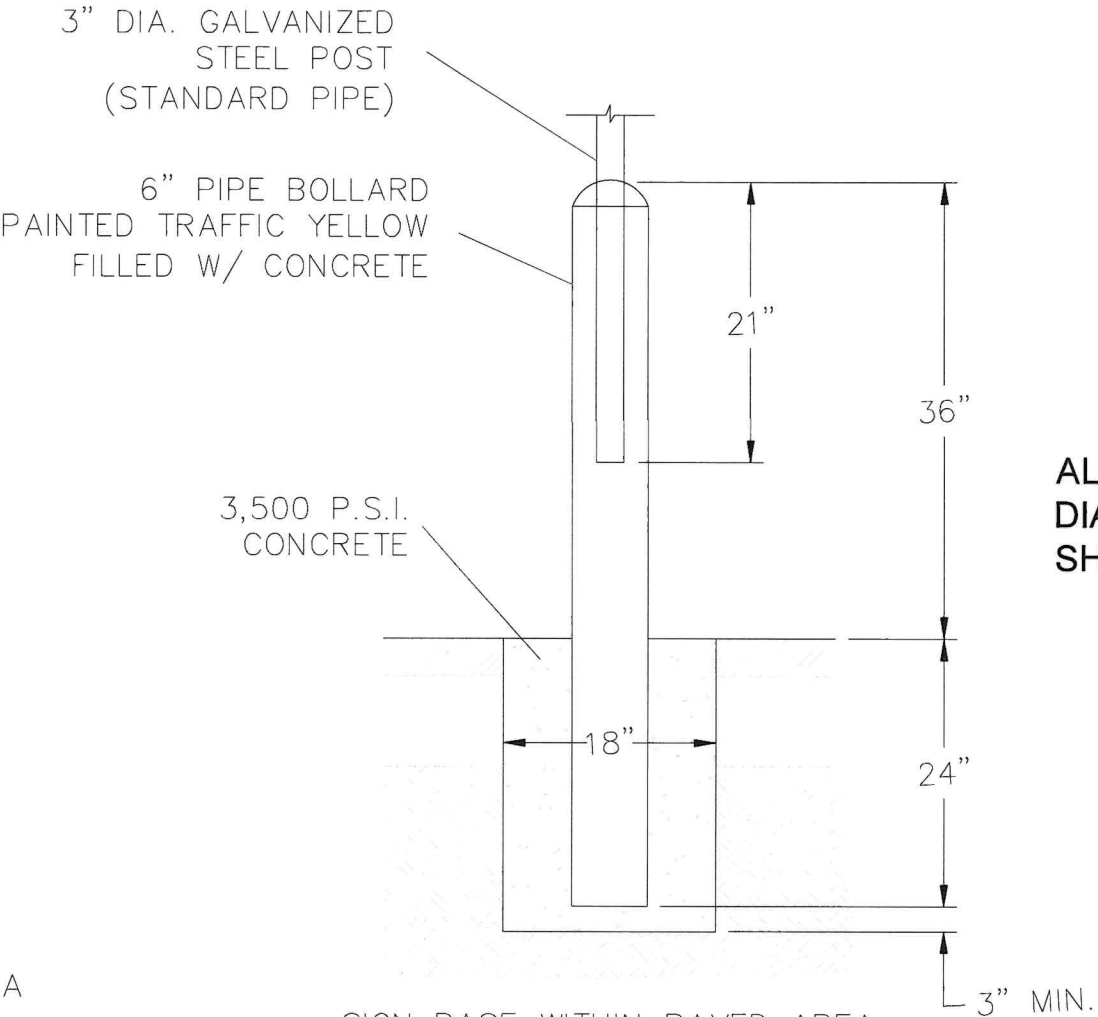
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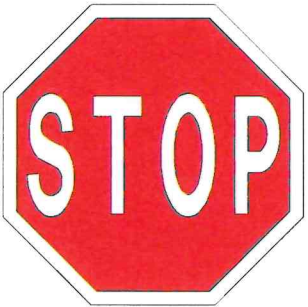
NOTE:
SIGNS INSTALLED WITHIN SIDEWALKS
SHALL BE SET DIRECTLY IN THE
CONCRETE AND SHALL UTILIZE A 3"
DIAMETER SIGN POST PER THE
SPECIFICATIONS.



SIGN BASE WITHIN LANDSCAPED AREA



SIGN BASE WITHIN PAVED AREA



STOP SIGN

N.T.S

ALL STOP SIGNS SHALL BE
DIAMOND GRADE DG3 REFLECTIVE
SHEETING SERIES 4000

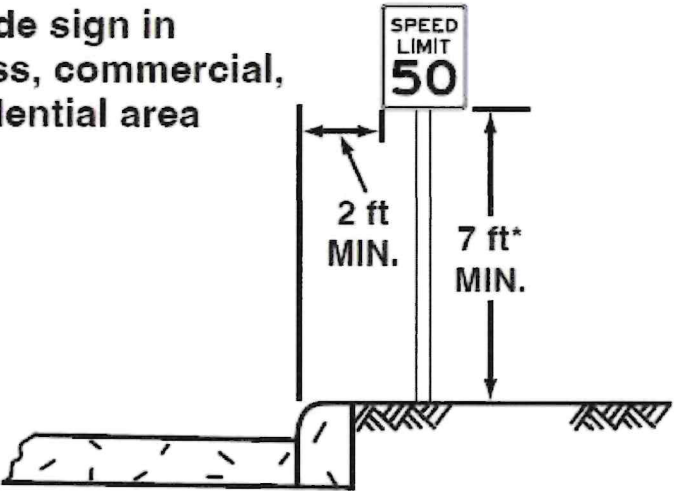
SIGN BASE

N.T.S



PAVEMENT MARKING

**C – Roadside sign in
business, commercial,
or residential area**



*Where parking or pedestrian movements are likely to occur



Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

Technician:

AM

ICE Project Name:

23-024

Engineer of Record:



NOTES:

REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

MARKING DETAILS (10F3)

FAA A.I.P. Project No.:

FDOT Project No.:

449858-94-01

Date:

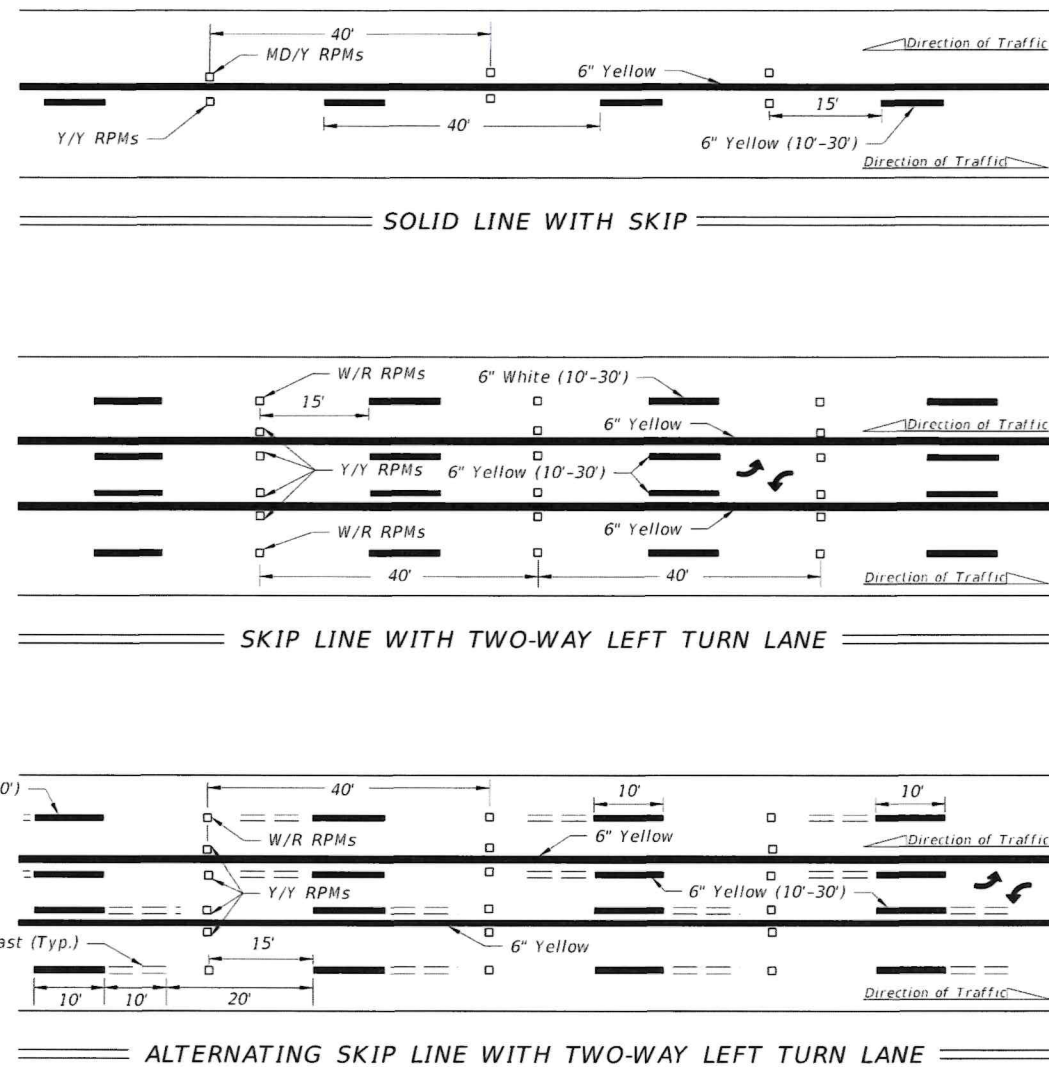
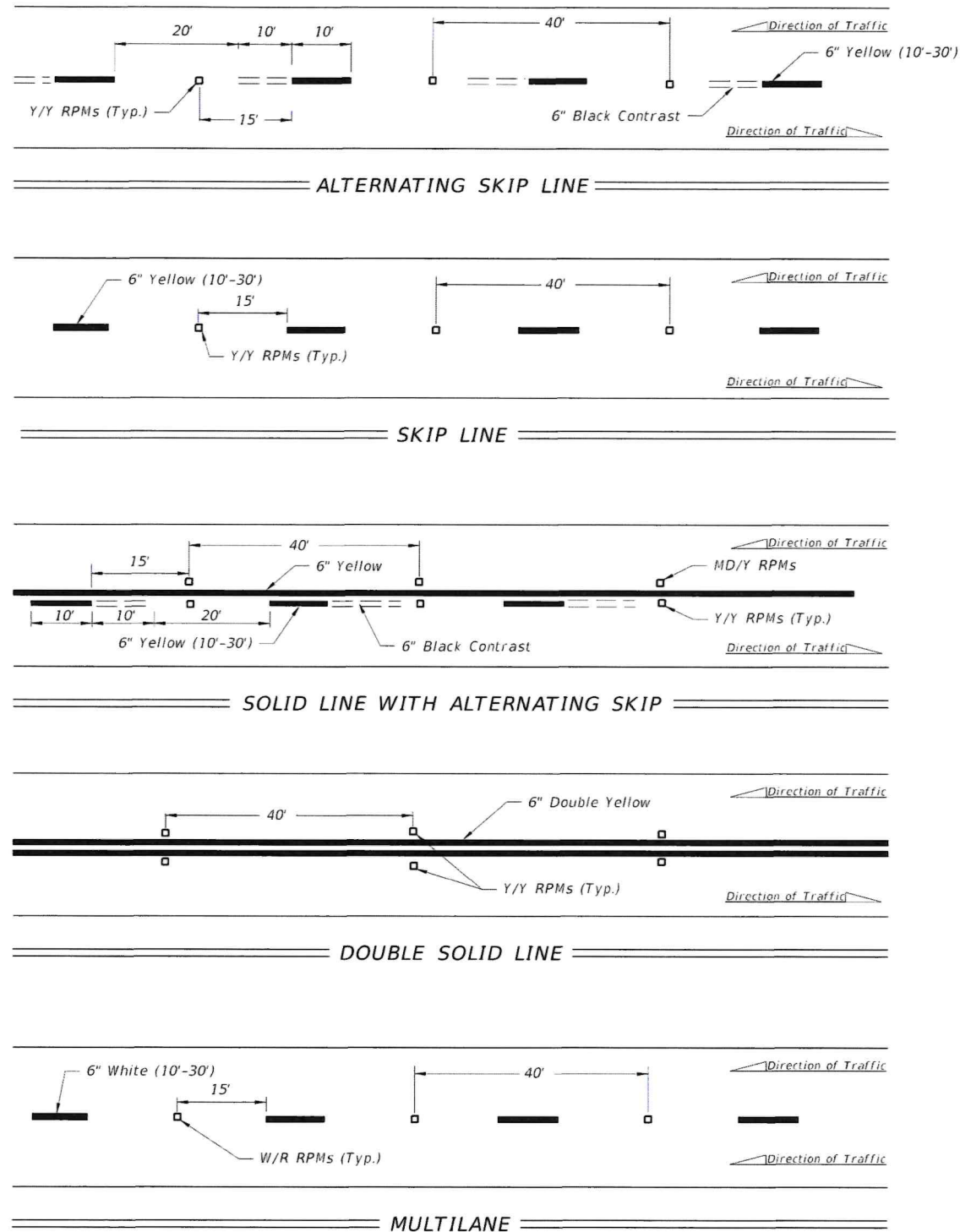
MARCH 2024

Sheet Number:

C9.1

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9/22/2021 3:09:35 PM



NOTES:

- Offset all RPMs 1" from solid longitudinal lines unless otherwise noted or shown.
- Spacing may be reduced for sharp curves if required.
- For placement of RPMs on ramps, see Index 711-003.
- Make the traffic face of the RPM the same color as the pavement marking that it is supplementing.

LEGEND:

B/C = BACK OF CURB
EOP = EDGE OF PAVEMENT
RPM = RAISED PAVEMENT MARKER
W/R = WHITE/RED RPM
Y/Y = YELLOW/YELLOW RPM
Y/R = YELLOW/RED RPM
MD/Y = MONO-DIRECTIONAL YELLOW RPM

LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	TYPICAL PLACEMENT OF RAISED PAVEMENT MARKERS	INDEX	SHEET
11/01/18					706-001	1 of 6



Project Name:
NORTH DEVELOPMENT ROAD

Designer: MA
Checked By: TL

Technician: AM
ICE Project Name: 23-024

Engineer of Record:



NOTES:

REVISIONS			
NO.	DESCRIPTION	DATE	BY

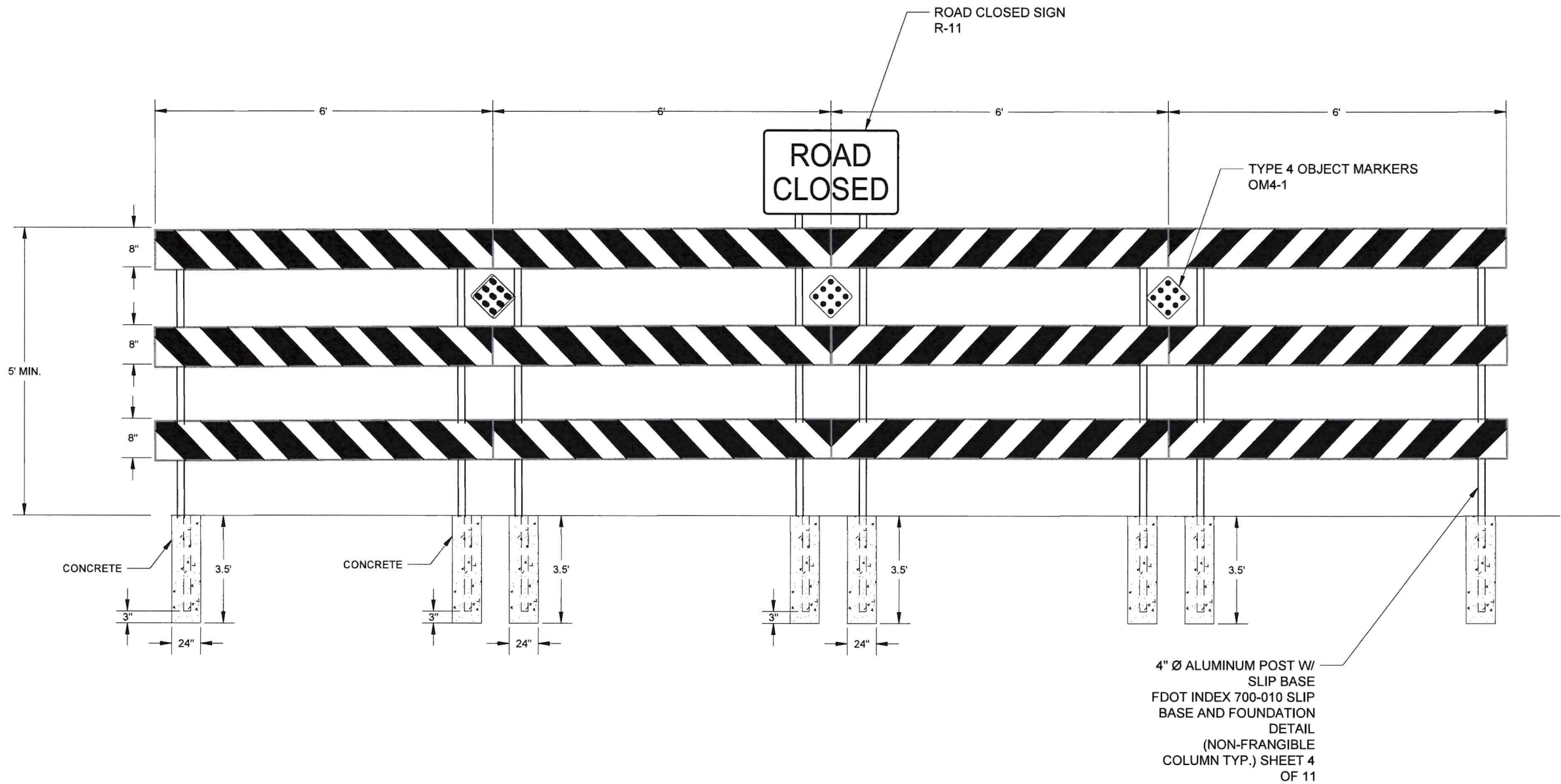
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MARKING DETAILS (20F3)

FAA A.I.P. Project No.:
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FDOT Project No.:
449858-94-01

Date: MARCH 2024
Sheet Number: C9.2

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TYPE 3 BARRICADE

N.T.S.



Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

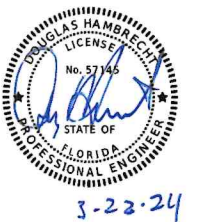
Technician:

AM

ICE Project Name:

23-024

Engineer of Record:



NOTES:

REVISIONS			
NO.	DESCRIPTION	DATE	BY

Drawing Name:

MARKING DETAILS (30F3)

FAA A.I.P. Project No.:

FDOT Project No.:

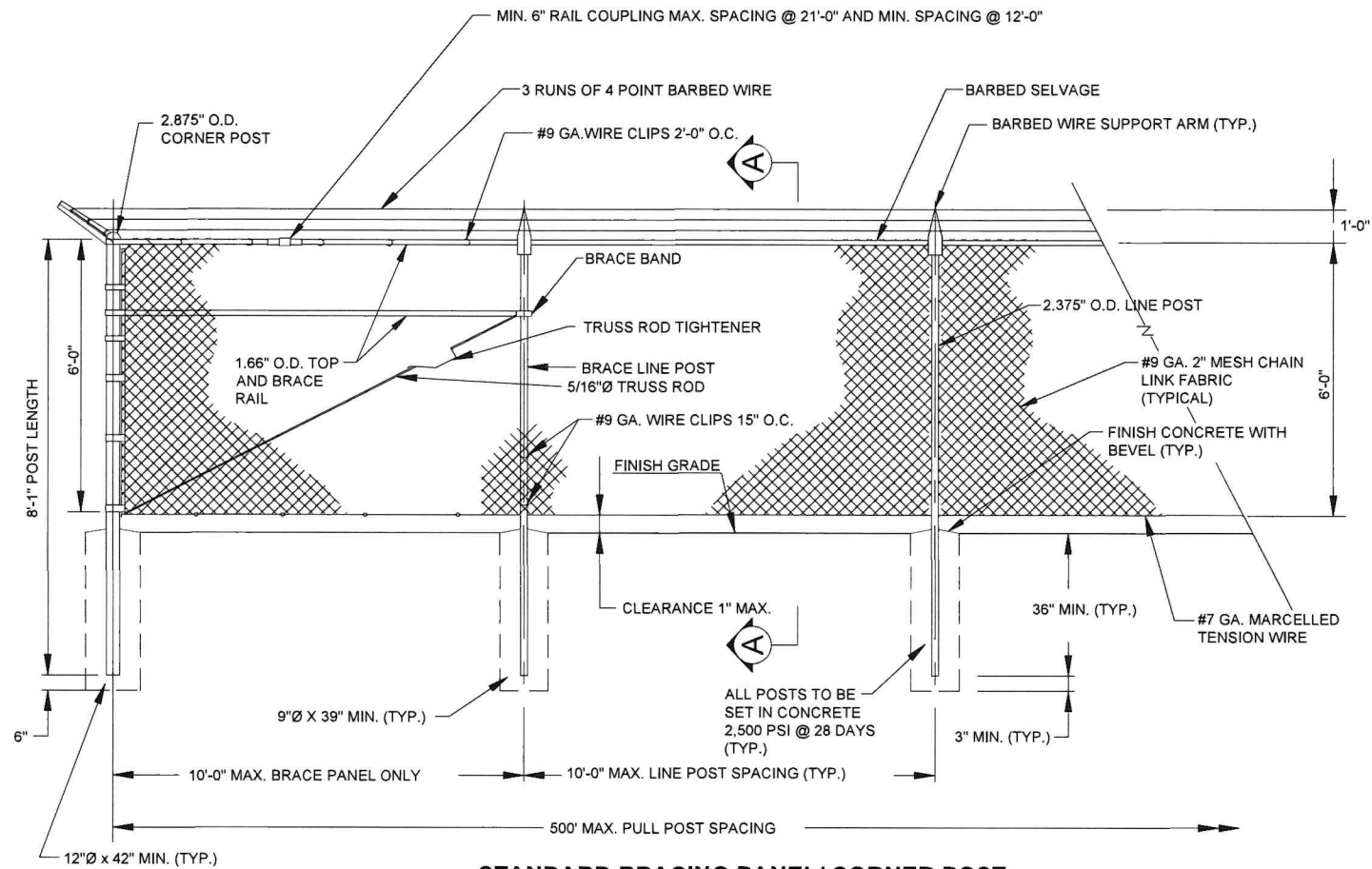
449858-94-01

Date:

MARCH 2024

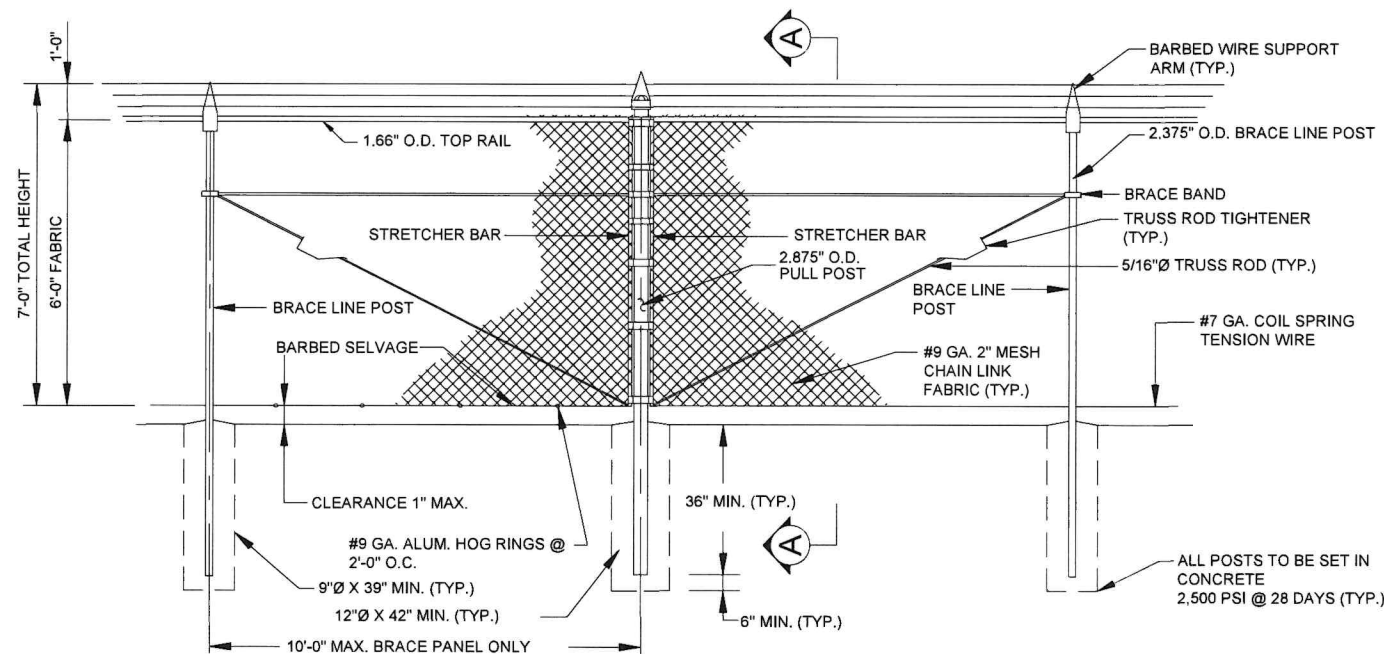
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C9.3



STANDARD BRACING PANEL/ CORNER POST

N.T.S.



STANDARD BRACING/ PULL POST PANEL

N.T.S.



Project Name:

**NORTH
DEVELOPMENT
ROAD**

Designer:

MA

Checked By:

TL

Technician:

AM

ICE Project Name:

23-024

Engineer of Record:



NOTES:

REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

FENCE AND GATE DETAILS

FAA A.I.P. Project No.:

-

FDOT Project No.:

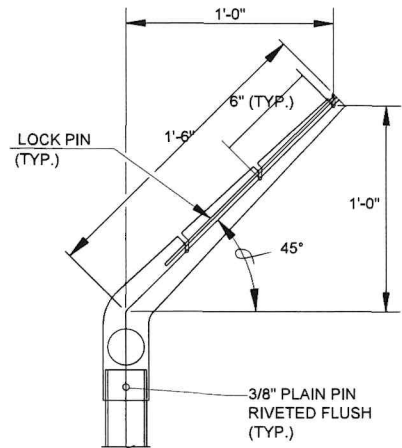
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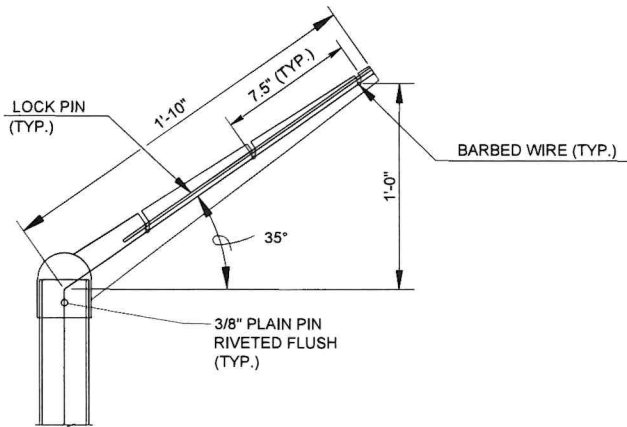
MARCH 2024

Sheet Number:

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LINE POST

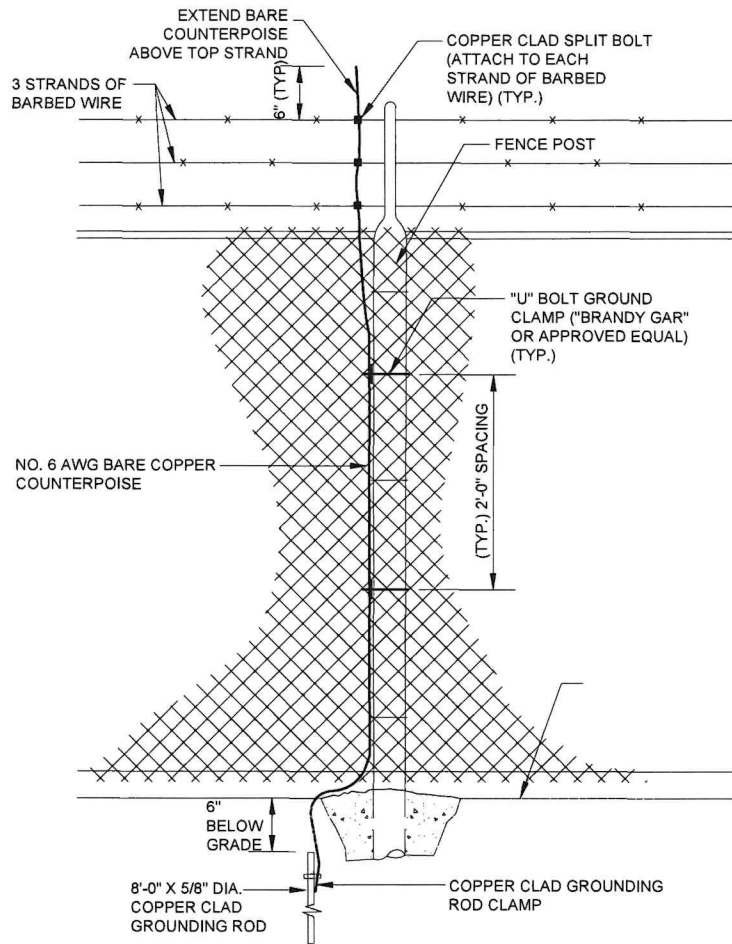


CORNER POST

NOTE: EXTENSION ARMS TO BE ANGLED OUTWARD AND AWAY FROM AIRFIELD SIDE OF FENCING (TYP.)

BARBED WIRE SUPPORT ARM DETAILS

N.T.S.



TYPICAL FENCE GROUNDING DETAIL

N.T.S.

FENCE ELECTRICAL GROUNDING NOTE:

1. ELECTRICAL GROUNDS SHALL BE CONSTRUCTED AT THE FOLLOWING LOCATIONS:
 - A) WHERE A POWER LINE PASSES OVER OR UNDER THE FENCE, THE GROUND SHALL BE INSTALLED DIRECTLY BELOW THE POINT OF CROSSING.
 - B) AT MAXIMUM 500-FOOT INTERVALS ALONG THE FENCE.
 - C) AT EACH GATE LEAF AND EACH GATE POST ON BOTH SIDES OF EACH GATE.
2. THE GROUND SHALL BE ACCOMPLISHED WITH A COPPER-CLAD ROD 8 FEET LONG AND A MINIMUM OF 5/8 INCH IN DIAMETER DRIVEN VERTICALLY UNTIL THE TOP IS 6 INCHES BELOW THE GROUND SURFACE. A NO. 6 SOLID COPPER CONDUCTOR SHALL BE CLAMPED TO THE ROD AND TO THE FENCE IN SUCH A MANNER THAT EACH ELEMENT OF THE FENCE IS GROUNDED.
3. INSTALLATION OF GROUND RODS SHALL NOT CONSTITUTE A PAY ITEM AND SHALL BE CONSIDERED INCIDENTAL TO THE LINE ITEM FOR FENCING.



Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

Technician:

AM

ICE Project Name:

23-024

Engineer of Record:



NOTES:

REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

FENCE AND GATE DETAILS

FAA A.I.P. Project No.:

FDOT Project No.:

449858-94-01

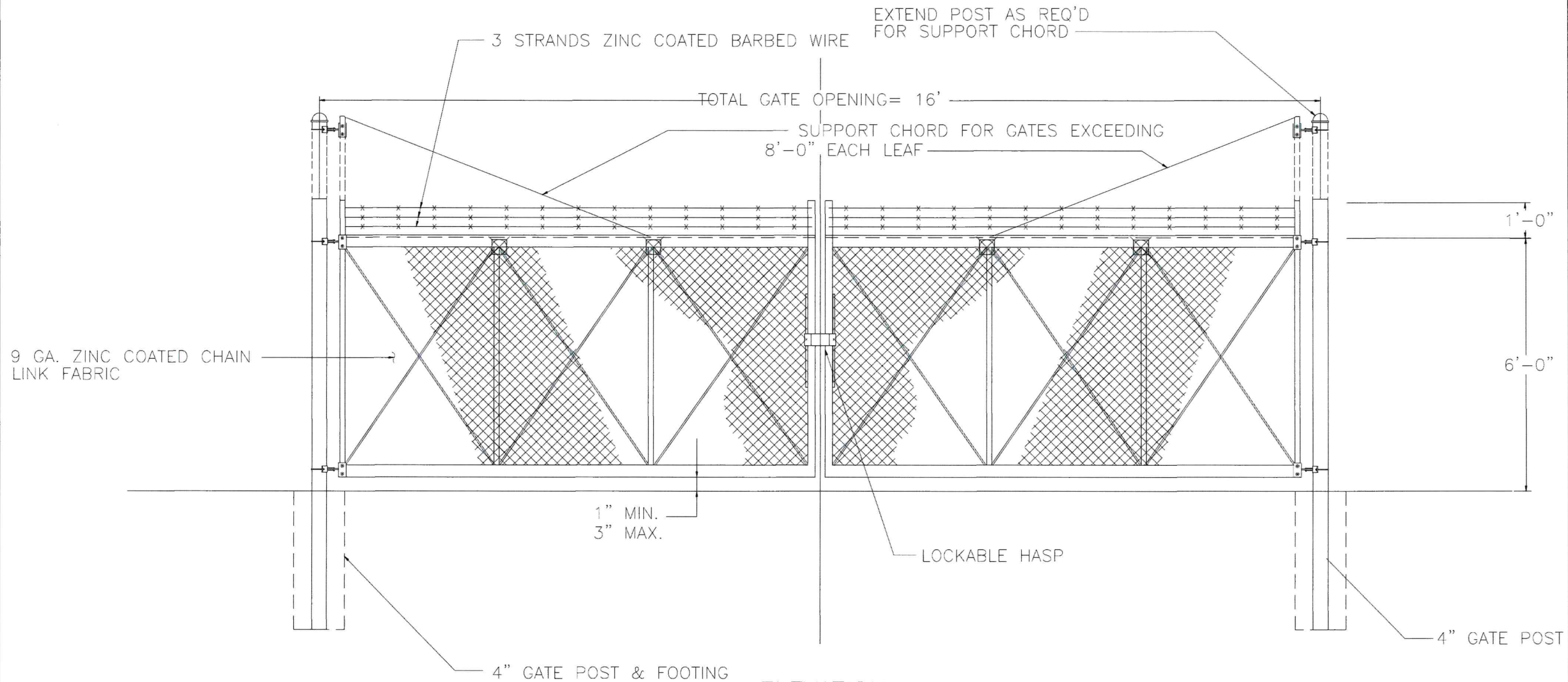
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MARCH 2024

Sheet Number:

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ELEVATION

DUAL SWING GATE DETAIL

N.T.S

LIFT STATION GATE



Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

Technician:

AM

ICE Project Name:

23-024

Engineer of Record:



NOTES:

REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

FENCE AND GATE DETAILS

FAA A.I.P. Project No.:

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FDOT Project No.:

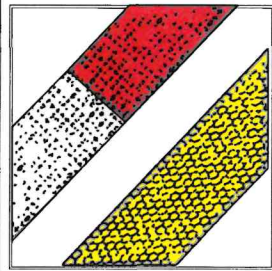
449858-94-01

Date:

MARCH 2024

Sheet Number:

C10.3



NOTE 1:
Barrier
Arm Gate & Post
Safety Tape Kit

- Thickness: 8 Mil.
- MUTCD Compliant
- Red/White & Yellow
- Increases Visibility



Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

Technician:

AM

ICE Project Name:

23-024

Engineer of Record:



NOTES:

REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

FENCE AND GATE DETAILS

FAA A.I.P. Project No.:

FDOT Project No.:

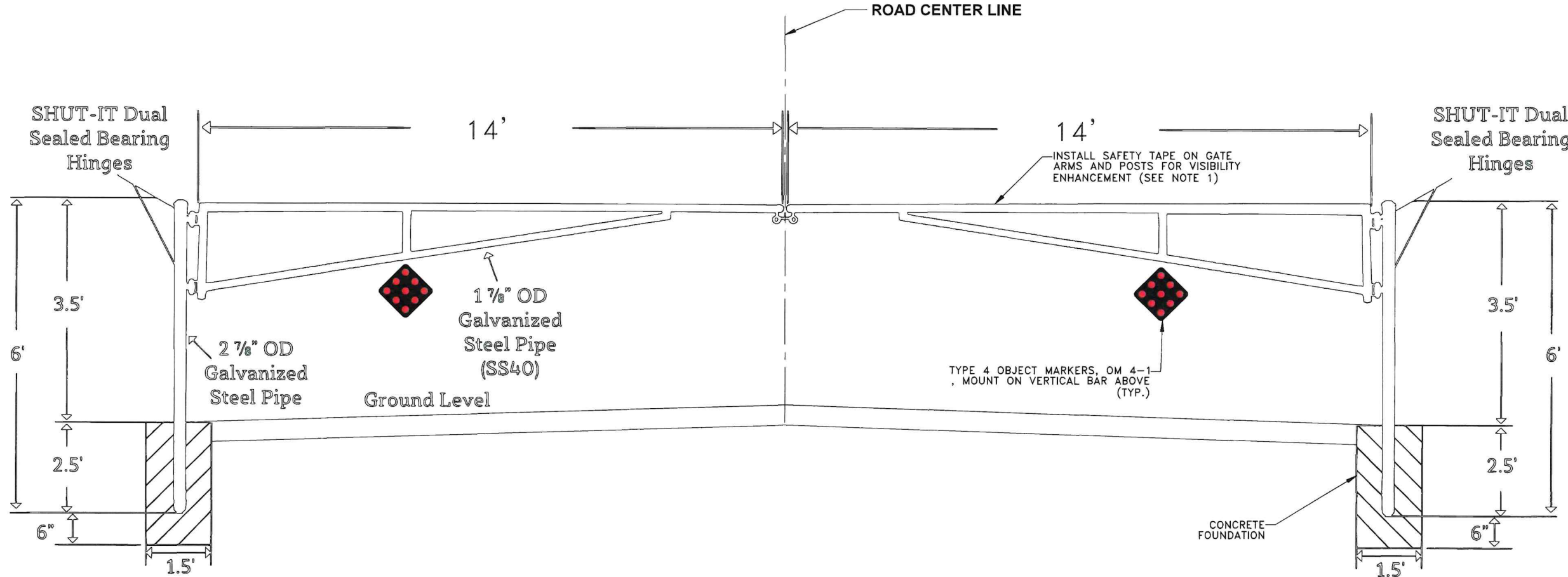
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Date:

MARCH 2024

Sheet Number:

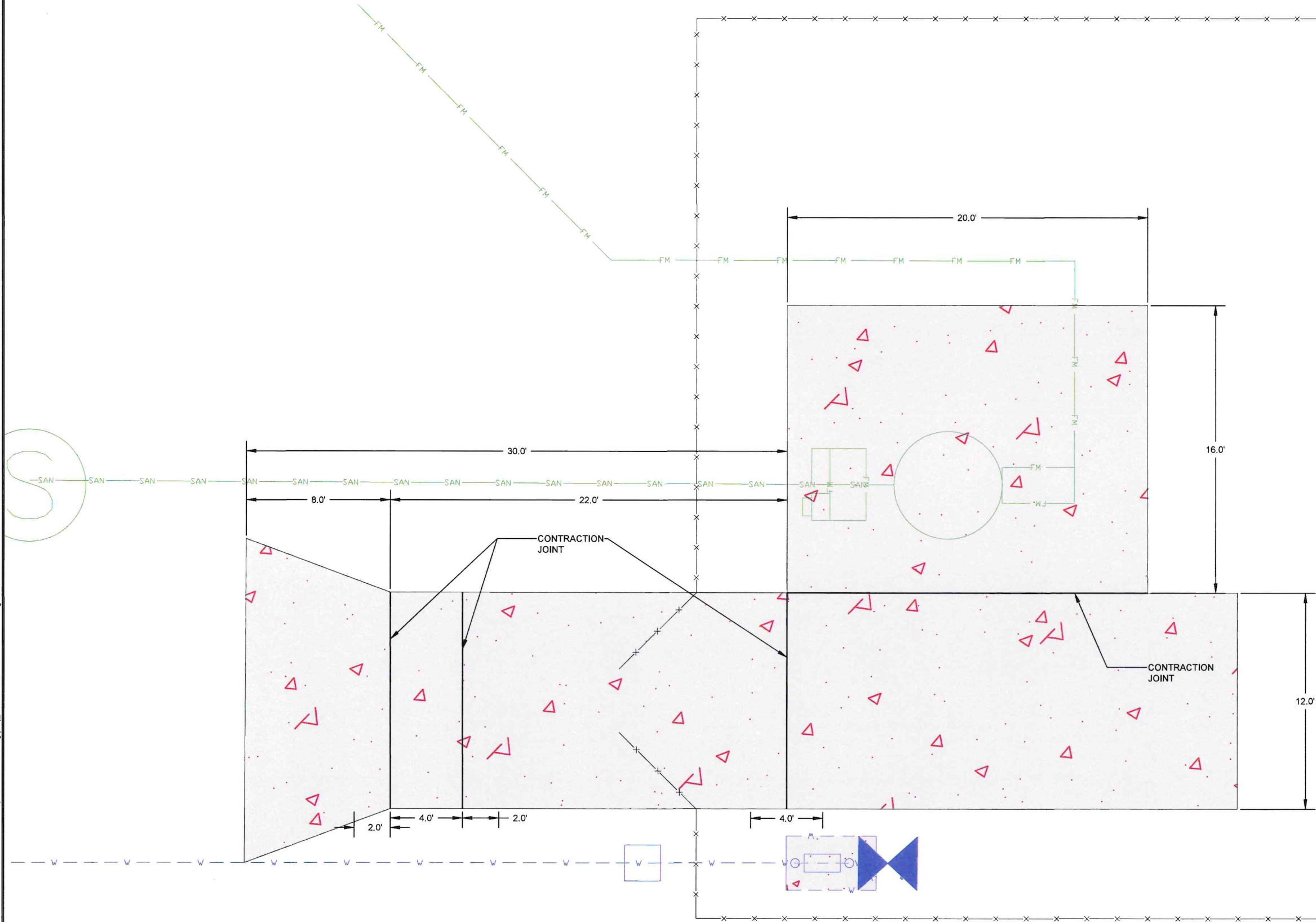
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Contact Information:	Manufacturer:	Part Number:	Product Description:	Product Specifications:
Web: www.TigerTeethStore.com Phone: (800) 878-7829 Email: Sales@TigerTeethStore.com	Barrier Gate Brands™	14010-12	SENTINEL 14 ft. Manual Swing Barrier Gate	<ul style="list-style-type: none">Width: 14 ft.Material: Galvanized SteelInstallation Type: In-GroundBarrier Gate Type: Manual Single Swing Gate

OR APPROVED EQUAL

File Path: C:\Users\AMR.MANSOUR\Box\ICE\TRA\AVIATION\Ocala\23-024 North Development Road\CADD-dwg\016 C11.1 PCC JOINT LAYOUT PLAN.dwg Date: 3/22/2024 1:25 PM



* SEE DETAILS ON SHEET C11.2



Project Name:

NORTH
DEVELOPMENT
ROAD

Designer:

MA

Checked By:

TL

Technician:

AM

ICE Project Name:

23-024

Engineer of Record:



NOTES:

REVISIONS

NO.	DESCRIPTION	DATE	BY

Drawing Name:

PCC JOINT LAYOUT PLAN

FAA A.I.P. Project No.:

-

FDOT Project No.:

449858-94-01

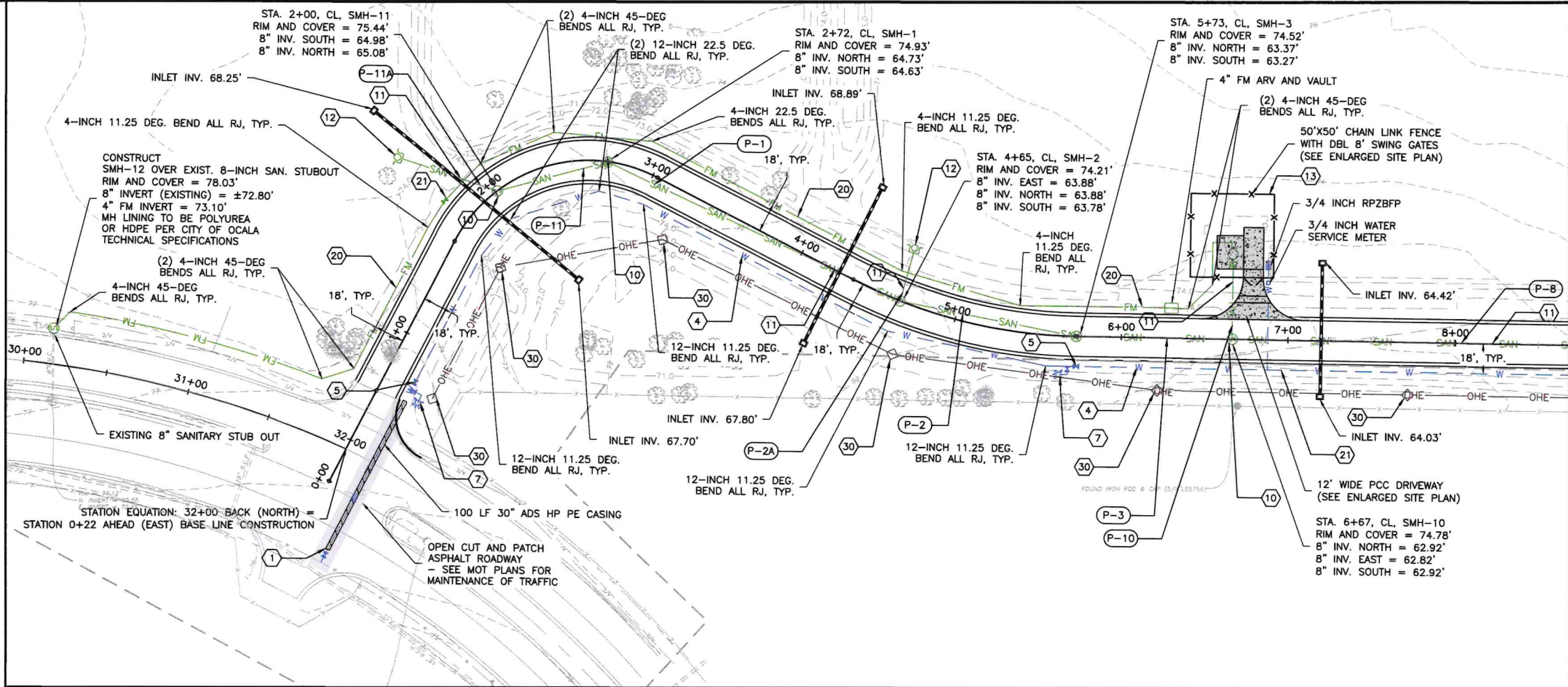
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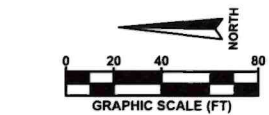
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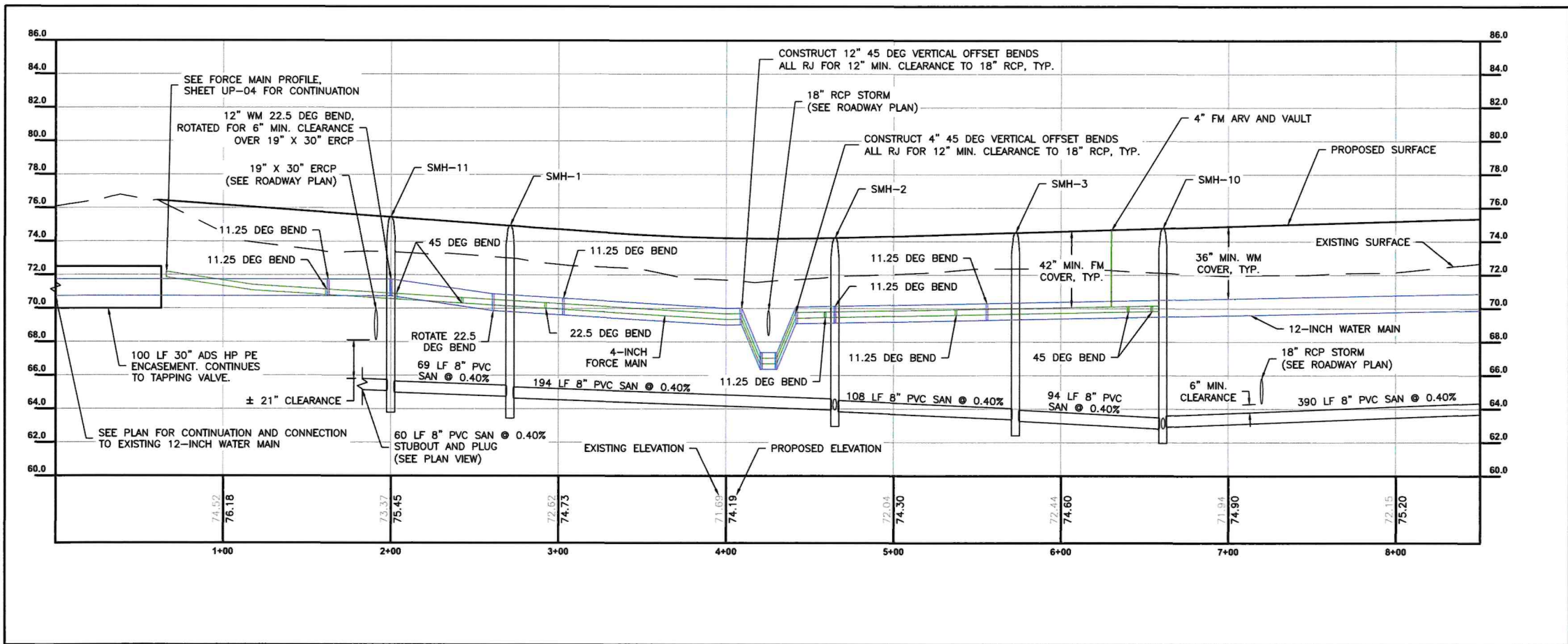
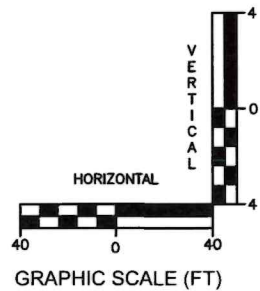


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NOTE

SEE KEYNOTES, SHEET UP-05



MATCH LINE SHEET UP-02 STA 8+50.00



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TAMPA, FLORIDA 33634 (813) 330-2701
CORPORATE CERTIFICATE OF AUTHORIZATION NO.: 30862



AVCON, INC.
ENGINEERS & PLANNERS
5555 E. MICHIGAN ST., SUITE 200 - ORLANDO, FL 32822-2779
OFFICE: (407) 998-1122 - FAX: (407) 998-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

Project Name:

NORTH DEVELOPMENT ROAD

Designer: RP

Checked by: RP

Technician: JP

ICE Proj. No.: 23-024

Engineer of Record:

This item has been digitally signed and sealed by:



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Palm
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ROBERT H. PALM, P.E.
FLORIDA LICENSE NO. 45963

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No.	Description	Date	By

Drawing Name: **UTILITY PLAN
AND PROFILE
(SHEET 1 OF 3)**

FAA A.I.P. Project No.:

XXXXXX

FDOT Project No.:

XXXXX

Date:

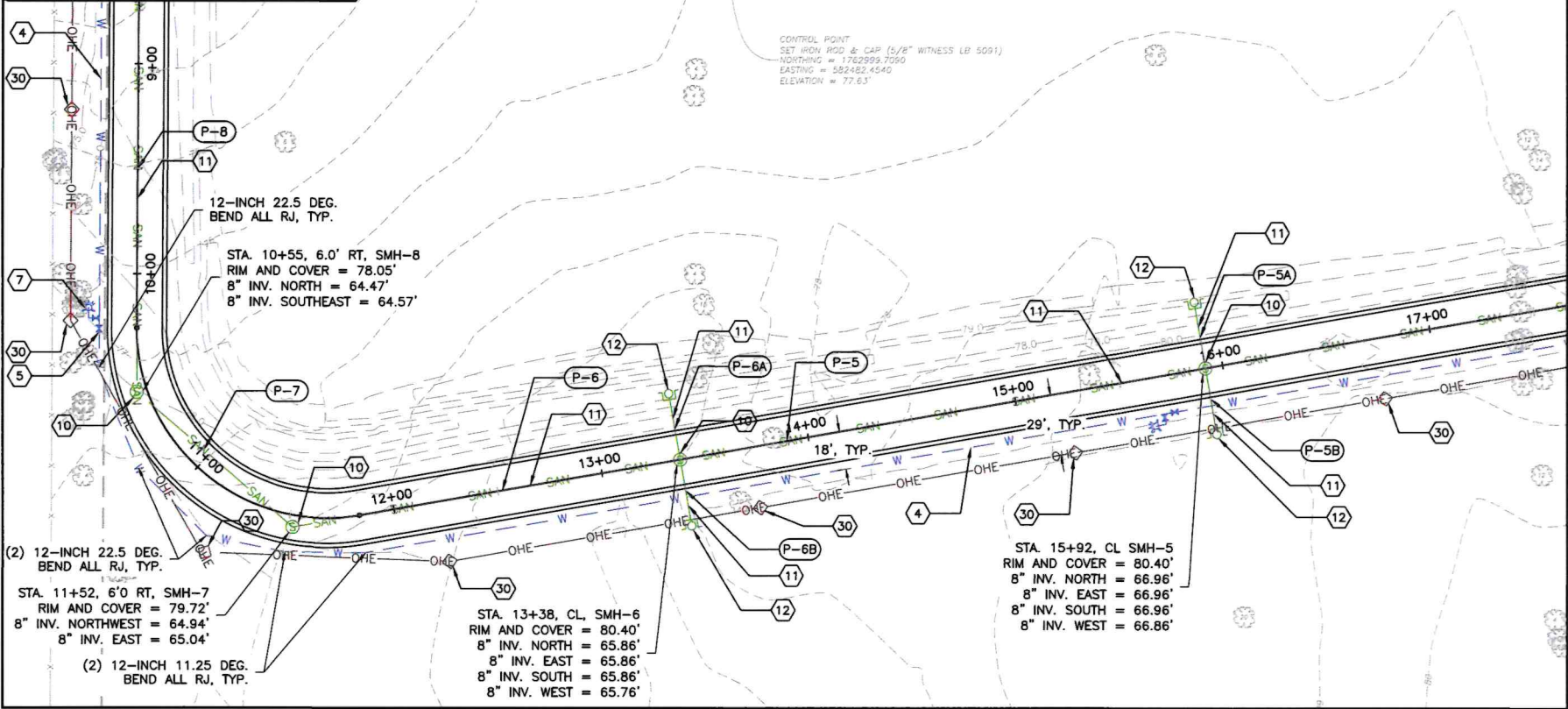
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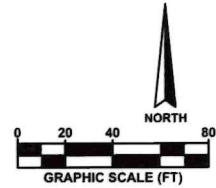
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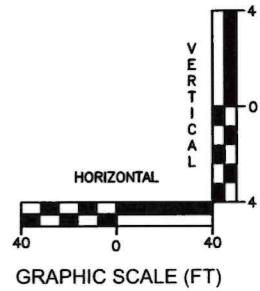


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NOTE

SEE KEYNOTES, SHEET UP-05



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5555 E. MICHIGAN ST., SUITE 200 - ORLANDO, FL 32822-2779
OFFICE: (407) 588-1122 - FAX: (407) 589-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5657
www.avconinc.com

Project Name:

**NORTH DEVELOPMENT
ROAD**

Designer: **RP**

Checked by: **RP**

Technician: **JP**

ICE Proj. No.:
23-024

Engineer of Record:



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Drawing Name: **UTILITY PLAN
AND PROFILE
(SHEET 2 OF 3)**

FAA A.I.P. Project No.:

xxxxxxx

FDOT Project No.:

xxxxxx

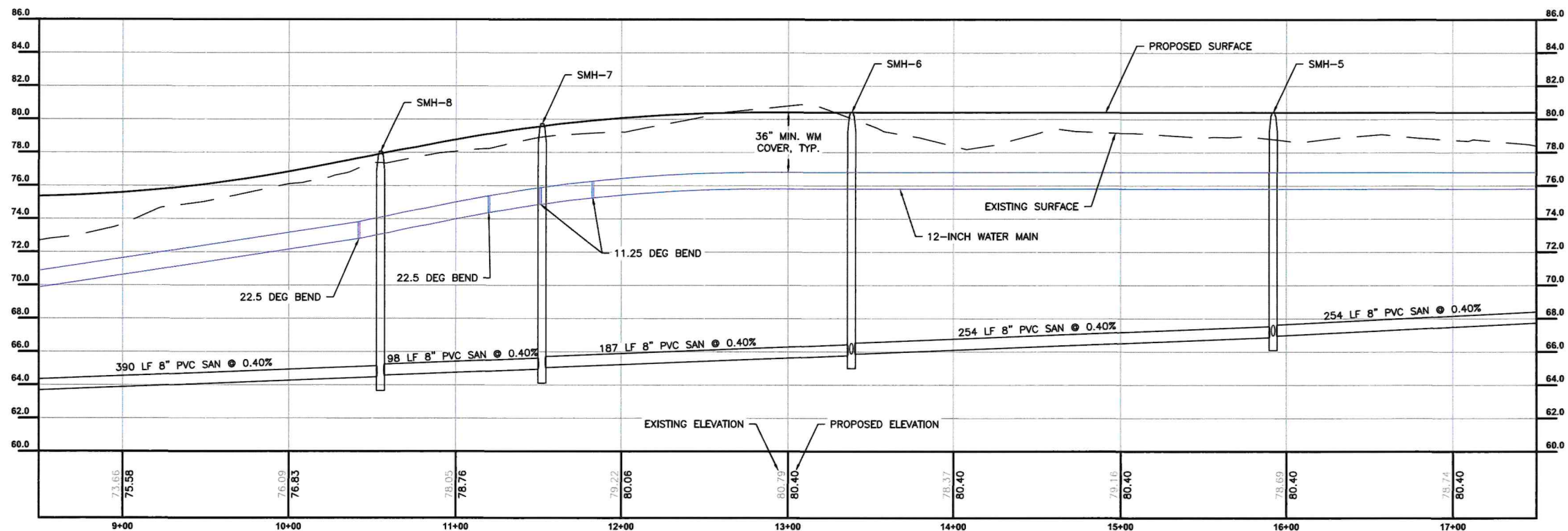
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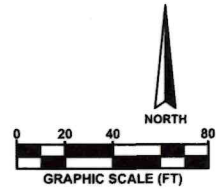
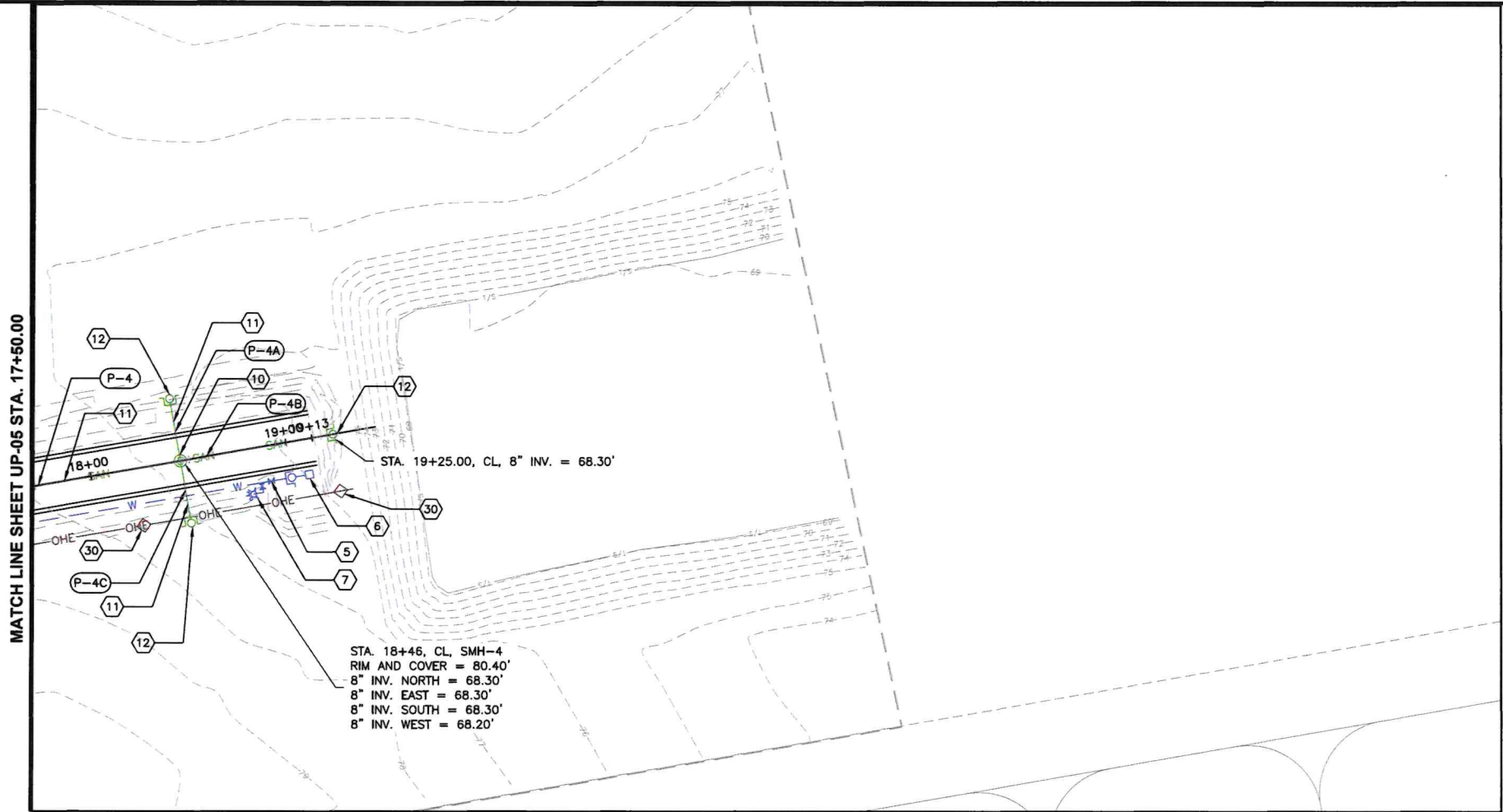
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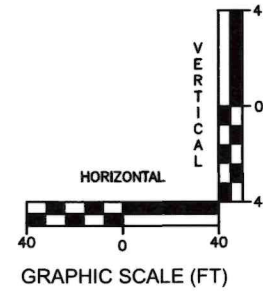


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NOTE
SEE KEYNOTES, SHEET UP-05



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TAMPA, FLORIDA 33634 (813) 330-2701
CERTIFICATE OF AUTHORIZATION NO.: 30862



AVCON, INC.
ENGINEERS & PLANNERS
5555 E. MICHIGAN ST., SUITE 200 - ORLANDO, FL 32822-2779
OFFICE: (407) 599-1122 - FAX: (407) 599-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

Project Name:

**NORTH DEVELOPMENT
ROAD**

Designer:	RP	Checked by:	RP
Technician:	JP	ICE Proj. No.:	23-024

Engineer of Record:



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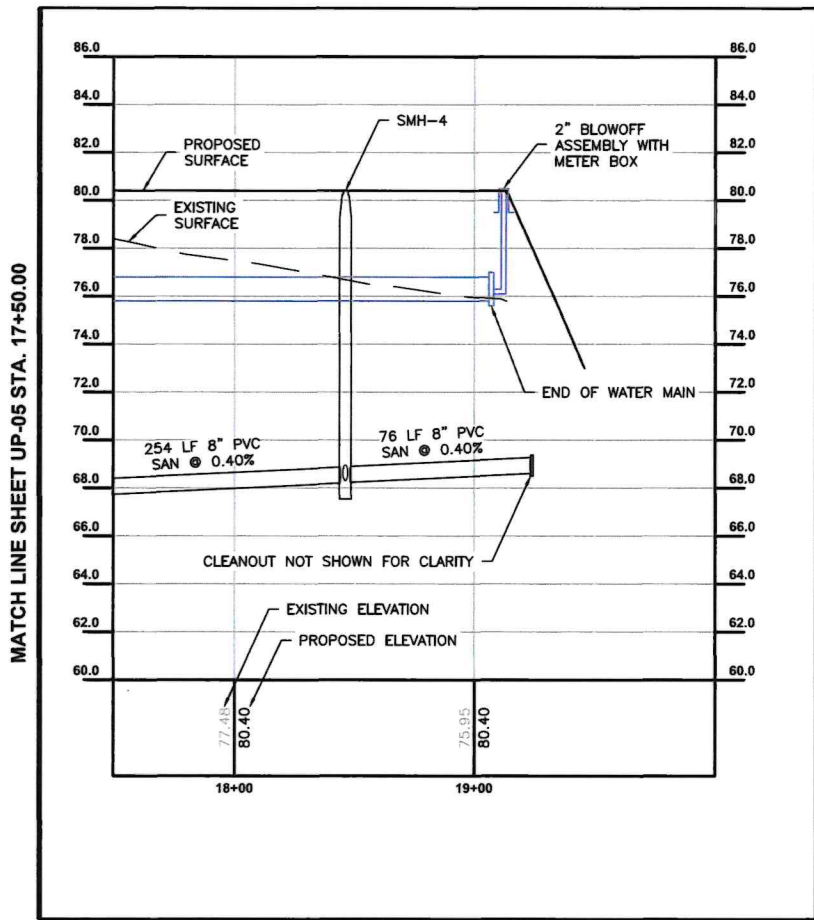
No.	Description	Date	By

Drawing Name: **UTILITY PLAN
AND PROFILE
(SHEET 3 OF 3)**

FAA A.I.P. Project No.:
xxxxxxx

FDOT Project No.:
xxxxx

Date:	Sheet Number:
FEBRUARY 2024	UP-03



UTILITY KEY NOTES - POTABLE WATER MAIN

- 1
- CONNECT TO EXISTING 12-INCH WATER MAIN WITH 12-INCH TAPPING SLEEVE AND TAPPING VALVE WITH VALVE BOX.
- 2
- INSTALL 100 LF 12-INCH DIP WATER MAIN ALL RESTRAINED JOINTS UNDER PAVEMENT IN 30-INCH ADS HP PP CASING WITH CASCADE CASING SPACERS AT 10' MAX SPACING.
- 3
- 12-INCH DUCTILE IRON FITTING WITH ALL RESTRAINED JOINTS.
- 4
- 12-INCH PVC PIPE, TYP. WITH LESS THAN 4-DEGREE JOINT DEFLECTION.
- 5
- 12-INCH BUTTERFLY VALVE WITH BOX.
- 6
- TERMINATE WATER MAIN WITH 12-INCH TAPPED PLUG AND 2-INCH MANUAL BLOW-OFF WITH METER BOX.
- 7
- 12-INCH X 6-INCH TEE, 6-INCH GATE VALVE AND VALVE BOX, FIRE HYDRANT ASSEMBLY.

UTILITY KEY NOTES - SANITARY GRAVITY SEWER

- 10
- SANITARY SEWER MANHOLE.
- 11
- 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%.
- 12
- STUB-OUT AND PLUG 8-INCH PVC WITH CLEANOUT.
- 13
- LIFT STATION SITE (FINAL TBD).

UTILITY KEY NOTES - SANITARY FORCE MAIN

- 20
- 4-INCH PVC SANITARY FORCE MAIN.
- 21
- 4-INCH SANITARY FORCE MAIN OFFSETTING 45-DEGREE BENDS ALL RESTRAINED JOINTS.
- 22
- 4-INCH PLUG VALVE WITH VALVE BOX.

UTILITY KEY NOTES - OVERHEAD ELECTRIC

- 30
- 3-PHASE OVERHEAD ELECTRICAL POWER LINES ON POWER/LIGHT POLES AT 150-FOOT MAXIMUM SPACING.

NOTES

1.
- THE CONTRACTOR SHALL COORDINATE WITH OCALA ELECTRIC TO FURNISH AND CONSTRUCT 3-PHASE ELECTRIC POWER INFRASTRUCTURE AND LED LIGHTING IN THE ROAD CORRIDOR, INCLUDING FURNISHING SURVEY AND STAKING FOR ALL ELEMENTS REQUIRED. (OCALA ELECTRIC 352-401-6922).
2.
- THE CONTRACTOR SHALL FURNISH AND CONSTRUCT ELECTRIC POWER INFRASTRUCTURE AND SERVICE FOR THE LIFT STATION SITE. (SEE DRAWINGS EL-01 AND EL-02).
3.
- THE CONTRACTOR SHALL FURNISH AND CONSTRUCT ALL REQUIRED CIVIL, ELECTRICAL, MECHANICAL AND PLUMBING REQUIRED FOR THE PROJECT UTILITIES. (REFERENCE THESE DRAWINGS AND THE TECHNICAL SPECIFICATIONS.)
4.
- PAY ITEM NOTES – THE PAY ITEMS LISTED ON THE BID FORM ARE INCLUSIVE OF ALL MATERIAL, LABOR, EQUIPMENT, TESTING, INSPECTIONS, ETC. NECESSARY FOR A COMPLETE CONSTRUCTION. PAY ITEMS FOR PIPE, PER LINEAR FOOT, ARE INCLUSIVE OF ALL FITTINGS, JOINT RESTRAINTS, APPURTENANCES, LININGS, COATINGS, DETECTIBLE MARKING TAPE, TRACEABLE WIRING, LOCATOR BALLS, TRENCHING, BEDDING, BACKFILL, COMPACTION, AND ALL OTHER INCIDENTALS NECESSARY FOR A COMPLETE UTILITY CONSTRUCTION. NO SEPARATE PAYMENT WILL BE MADE FOR ITEMS FOR WHICH NO SPECIFIC PAY ITEM IS IDENTIFIED ON THE BID DOCUMENTS. THE CONTRACTOR SHALL INCLUDE SUFFICIENT BID PRICES AT THE TIME OF THE BID TO COVER THE COST OF ALL SUCH NECESSARY INCIDENTALS RESULTING IN A COMPLETE CONSTRUCTION IN ACCORDANCE WITH THE PLANS AND TECHNICAL SPECIFICATIONS.

UTILITY KEY NOTES

- P-11A
- 60 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%, TYPICAL
- P-11
- 69 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%, TYPICAL
- P-1
- 194 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%, TYPICAL
- P-2
- 108 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%, TYPICAL
- P-2A
- 30 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%, TYPICAL
- P-3
- 94 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%, TYPICAL
- P-10
- 48 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.54%
- P-8
- 390 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%, TYPICAL
- P-7
- 98 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%, TYPICAL
- P-6
- 187 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%, TYPICAL
- P-6A
- 30 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%, TYPICAL
- P-6B
- 30 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%, TYPICAL
- P-5
- 254 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%, TYPICAL
- P-5A
- 30 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%, TYPICAL
- P-5B
- 30 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%, TYPICAL
- P-4
- 254 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%, TYPICAL
- P-4A
- 30 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%, TYPICAL
- P-4B
- 76 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%, TYPICAL
- P-4C
- 30 LF 8-INCH PVC SANITARY GRAVITY SEWER AT 0.40%, TYPICAL



5550 WEST IDLEWILD AVE. SUITE 115
TAMPA, FLORIDA 33634 (813) 330-2701
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ENGINEERS & PLANNERS
5555 E. MICHIGAN ST., SUITE 200 - ORLANDO, FL 32822-2779
OFFICE: (407) 598-1122 FAX: (407) 598-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

Project Name:

NORTH DEVELOPMENT
ROAD

Designer:

RP

Checked by:

RP

Technician:

JP

ICE Proj. No.:

23-024

Engineer of Record:

This item has been digitally signed and sealed by:



ROBERT H. PALM, P.E.
FLORIDA LICENSE NO. 45963

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Notes:

REVISIONS

No.	Description	Date	By

Drawing Name:

UTILITY KEY PLAN

FAA A.I.P. Project No.:

xxxxxxx

FDOT Project No.:

xxxxxx

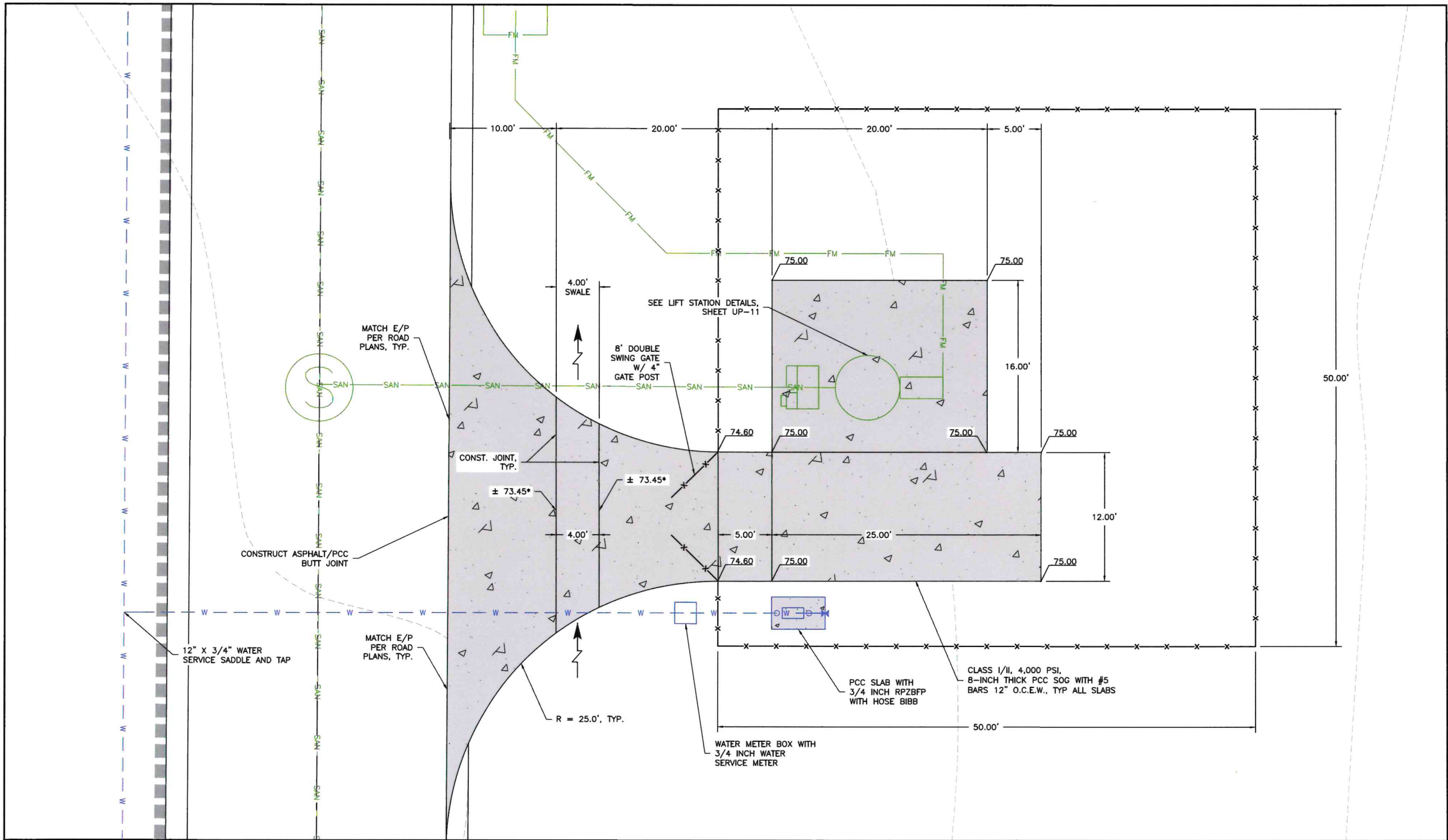
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FEBRUARY 2024

Sheet Number:

UP-05

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LEGEND

X

FENCE

FM

4" PVC FORCE MAIN

SAN

8" PVC SANITARY LINE

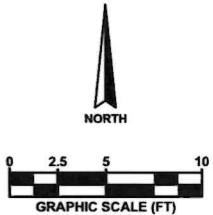
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12" PVC WATER MAIN

PCC PAVEMENT

FLOW DIRECTION

- NOTES:**
- SEE CITY OF OCALA STANDARD DETAILS FOR CONSTRUCTION DRAWING NUMBER SS-20E FOR ADDITIONAL REQUIREMENTS, CHEM TANK SOG, ODOR CONTROL SOG, ETC.
 - *DRIVEWAY ELEVATIONS FROM MATCH EDGE OF PAVEMENT 12- FEET LEFT OF CENTERLINE TO THE 4.0-FOOT SWALE SHALL BE PER THE ROAD DESIGN AND TYPICAL CROSS SECTIONS PLUS 1.5-INCHES.



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INFRASTRUCTURE
CONSULTING & ENGINEERING

5550 WEST IDLEWILD AVE. SUITE 115
TAMPA, FLORIDA 33634 (813) 330-2701
CERTIFICATE OF AUTHORIZATION NO.: 30862

AVCON, INC.
ENGINEERS & PLANNERS
5555 E. MICHIGAN ST., SUITE 200 - ORLANDO, FL 32822-2779
OFFICE: (407) 598-1122 - FAX: (407) 598-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

Project Name:
NORTH DEVELOPMENT ROAD

Designer:
RP

Checked by:
RP

Technician:
JP

ICE Proj. No.:
23-024

Engineer of Record:

This item has been digitally signed and sealed by:

Digitally signed
by Robert H
Palm
Date: 2024.03.18
14:46:52 -04'00'

ROBERT H. PALM, P.E.
FLORIDA LICENSE NO. 45963

Printed copies of this document are not considered signed and sealed
and the signature must be verified on any electronic copies.

PROFESSIONAL SEAL

Notes:

REVISIONS

No.	Description	Date	By

Drawing Name:
LIFT STATION SITE PLAN

FAA A.I.P. Project No.:
XXXXXXX

FDOT Project No.:
XXXXX

Date:
FEBRUARY 2024

Sheet Number:
UP-06

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NOTES

- WHERE ONE VALVE BOX EXTENSION IS REQUIRED USE STANDARD VALVE BOX EXTENSION.
- WHERE MORE THAN ONE VALVE BOX EXTENSIONS ARE REQUIRED USE 6\" D.I.P. CUT TO PROPER LENGTH SO VALVE BOX BOTTOM IS ONE CONTINUOUS SECTION.
- VALVE BOX LID TO BE FURNISHED WITH THE WORD "WATER", FOR WATER MAIN INSTALLATION, "SEWER" FOR FORCE MAIN INSTALLATION, "REUSE" FOR REUSE MAIN INSTALLATION, OR "FIRE" FOR DEDICATED FIRE MAIN INSTALLATION.
- FOR ALL VALVES USE SOLID COMMON BRICKS LAID FLAT: ONE (1) BRICK FOR 2"-6" LINES; TWO (2) BRICKS FOR 8"-10" LINES; FOUR (4) BRICKS FOR 12" LINES OR LARGER.
- 4" x 8" x 16" SOLID PRECAST CONCRETE BLOCK TO BE INSTALLED UNDERNEATH VALVE BODY FOR SUPPORT.
- FLOWABLE FILL OR CONCRETE CAN BE USED IN LIEU OF LIMEROCK IF APPROVED BY THE ENGINEER.
- FOR ALL VALVE BOXES INSTALLED IN PAVEMENT USE NON-POP LID.
- FOR ALL PRESSURE MAINS, TERMINATE LOCATING WIRE INSIDE VALVE BOX, SEE DETAIL G-15E.
- PAINT LIDS IN BLUE FOR WATER; PURPLE FOR RECLAIM; GREEN FOR SEWER; RED FOR HYDRANT.

CITY OF OCALA
STANDARD DETAILS
FOR CONSTRUCTION

**VALVE BOX
INSTALLATION**
IN ROADWAYS OR AREAS SUBJECT TO TRAFFIC

SECTION:
GENERAL
G-13
REVISION DATE:
DEC. 2020

NOTES

- WHERE ONE VALVE BOX EXTENSION IS REQUIRED USE STANDARD VALVE BOX EXTENSIONS.
- WHERE MORE THAN ONE VALVE BOX EXTENSIONS ARE REQUIRED USE 6\" D.I.P. CUT TO PROPER LENGTH SO VALVE BOX BOTTOM IS CONTINUOUS SECTION.
- VALVE BOX LID TO BE FURNISHED WITH THE WORD "WATER". FOR WATER MAIN INSTALLATION "SEWER" FOR FORCE MAIN INSTALLATION, "REUSE" FOR REUSE MAIN INSTALLATION, OR "FIRE" FOR DEDICATED FIRE MAIN INSTALLATION.
- FOR ALL VALVES USE SOLID COMMON BRICKS LAID FLAT: ONE (1) BRICK FOR 2"-6" LINES; TWO (2) BRICKS FOR 8"-10" LINES; FOUR (4) BRICKS FOR 12" LINES OR LARGER.
- 4" x 8" x 16" SOLID PRECAST CONCRETE BLOCK TO BE INSTALLED UNDERNEATH VALVE BODY FOR SUPPORT.
- FOR ALL PRESSURE MAINS, TERMINATE LOCATING WIRE INSIDE VALVE BOX, SEE DETAIL G-15E.
- PAINT LIDS IN BLUE FOR WATER; PURPLE FOR RECLAIM; GREEN FOR SEWER; RED FOR HYDRANT.
- PAINT BLUE "V" ON CURB FOR WATER VALVE LOCATION.

CITY OF OCALA
STANDARD DETAILS
FOR CONSTRUCTION

**VALVE BOX
INSTALLATION**
IN GRASS OR AREAS NOT SUBJECT TO TRAFFIC

SECTION:
GENERAL
G-14
REVISION DATE:
DEC. 2020

**THRUST RESTRAINT TABLE FOR
D.I.P. HORIZONTAL FITTINGS IN FEET**

NOMINAL PIPE DIAMETER	TEE, 90° BEND	45° BEND	22½° BEND	11¼° BEND	PLUG
4" - 6"	40	20	20	20	80
8"	60	40	20	20	100
12"	80	40	20	20	140
16"	120	60	40	20	180
18"	140	80	40	20	220
24" - 30"	160	80	40	20	300
36"	180	80	40	20	360

NOTES

- MINIMUM RESTRAINED LENGTH SHALL BE ALWAYS 20 FEET.
- IN-LINE VALVES AND THROUGH RUN OF TEES OUTSIDE LIMITS OF RESTRAINED JOINTS FROM OTHER FITTINGS NEED NOT BE RESTRAINED UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- BRANCH VALVE RESTRAINED JOINT LENGTH SHALL BE AS SHOWN FOR PLUG, OR UNTIL PIPE TERMINATION, IF SHORTER.
- POLYETHYLENE ENCASED DIP, AND PVC PIPE RESTRAINED JOINT LENGTH SHALL BE 125% OF LENGTH SHOWN IN ABOVE TABLE.

CITY OF OCALA
STANDARD DETAILS
FOR CONSTRUCTION

**RESTRAINED
JOINT SYSTEM**

SECTION:
GENERAL
G-11
REVISION DATE:
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5550 WEST IDLEWILD AVE. SUITE 115
TAMPA, FLORIDA 33634 (813) 330-2701
OFFICE: (407) 599-1122 - FAX: (407) 599-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NO.: 30862



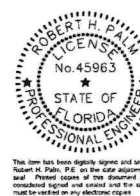
AVCON, INC.
ENGINEERS & PLANNERS
5555 E. MICHIGAN ST., SUITE 200 - ORLANDO, FL 32822-2779
OFFICE: (407) 599-1122 - FAX: (407) 599-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5957
www.avconinc.com

Project Name:

**NORTH DEVELOPMENT
ROAD**

Designer:	Checked by:
RP	RP
Technician:	ICE Proj. No.:
JP	23-024

Engineer of Record:



Digitally
signed by
Robert H Palm
Date:
2024.02.21
14:38:58
-05'00'

ROBERT H. PALM, P.E.
FLORIDA LICENSE NO, 45963

Notes:

REVISIONS

No.	Description	Date	By

Drawing Name:

**UTILITY DETAILS
(SHEET 1 OF 8)**

FAA A.I.P. Project No.:

XXXXXXX

FDOT Project No.:

XXXXXX

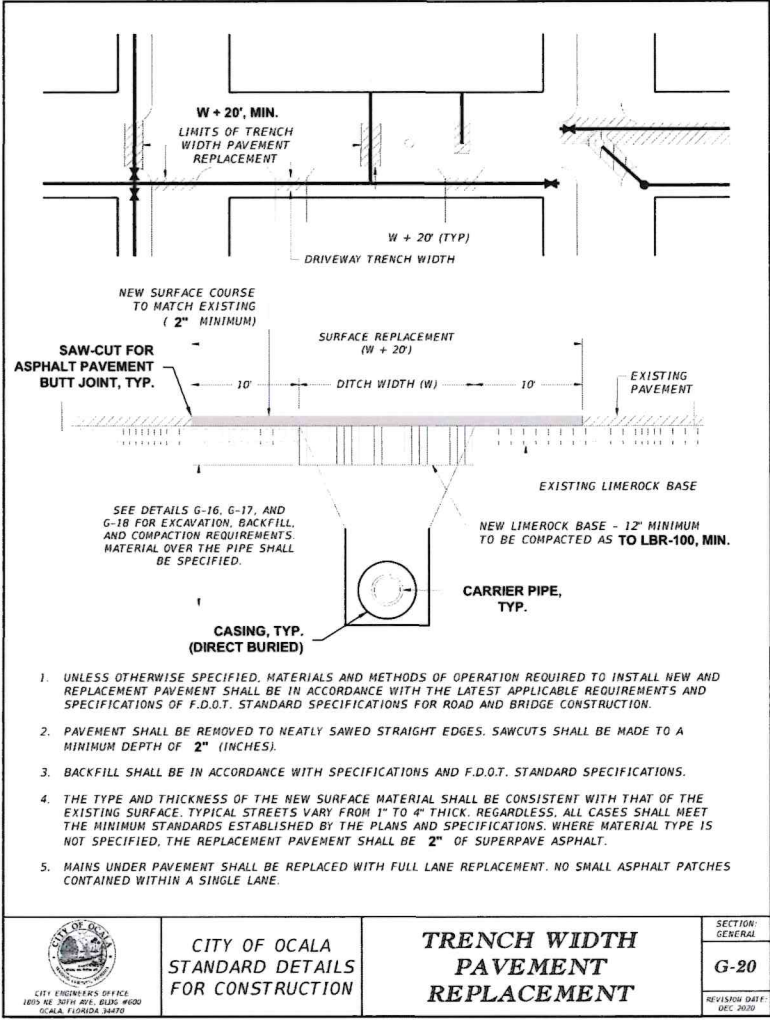
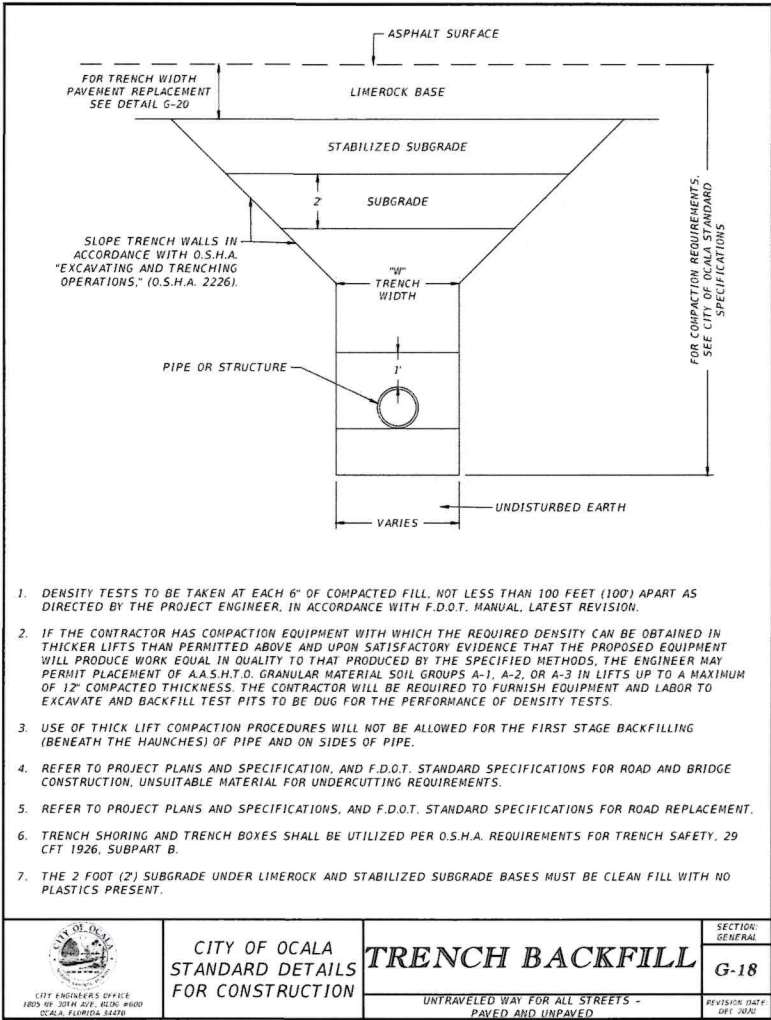
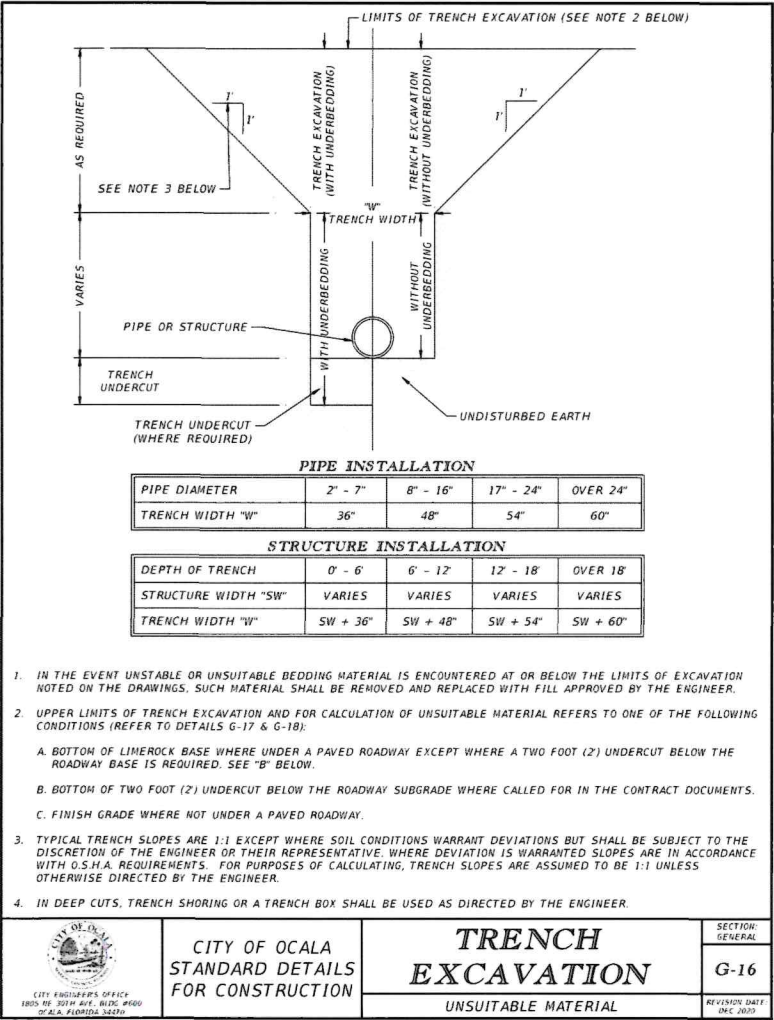
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FEBRUARY 2024

Sheet Number:

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5550 WEST IDLEWILD AVE. SUITE 115
TAMPA, FLORIDA 33634 (813) 330-2701
OFFICE: (407) 599-1132 • FAX: (407) 599-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NO.: 30862



AVCON, INC.
ENGINEERS & PLANNERS
5585 E. MICHIGAN ST., SUITE 200 - ORLANDO, FL 32822-2779
OFFICE: (407) 599-1132 • FAX: (407) 599-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5957
www.avconinc.com

Project Name:

NORTH DEVELOPMENT ROAD

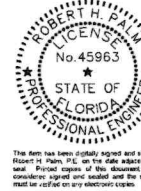
Designer: **RP**

Checked by: **RP**

Technician: **JP**

ICE Proj. No.: **23-024**

Engineer of Record:



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by Robert H
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FLORIDA LICENSE NO. 45963

Notes:

REVISIONS

No.	Description	Date	By

Drawing Name:

**UTILITY DETAILS
(SHEET 2 OF 8)**

FAA A.I.P. Project No.:

XXXXXXX

FDOT Project No.:

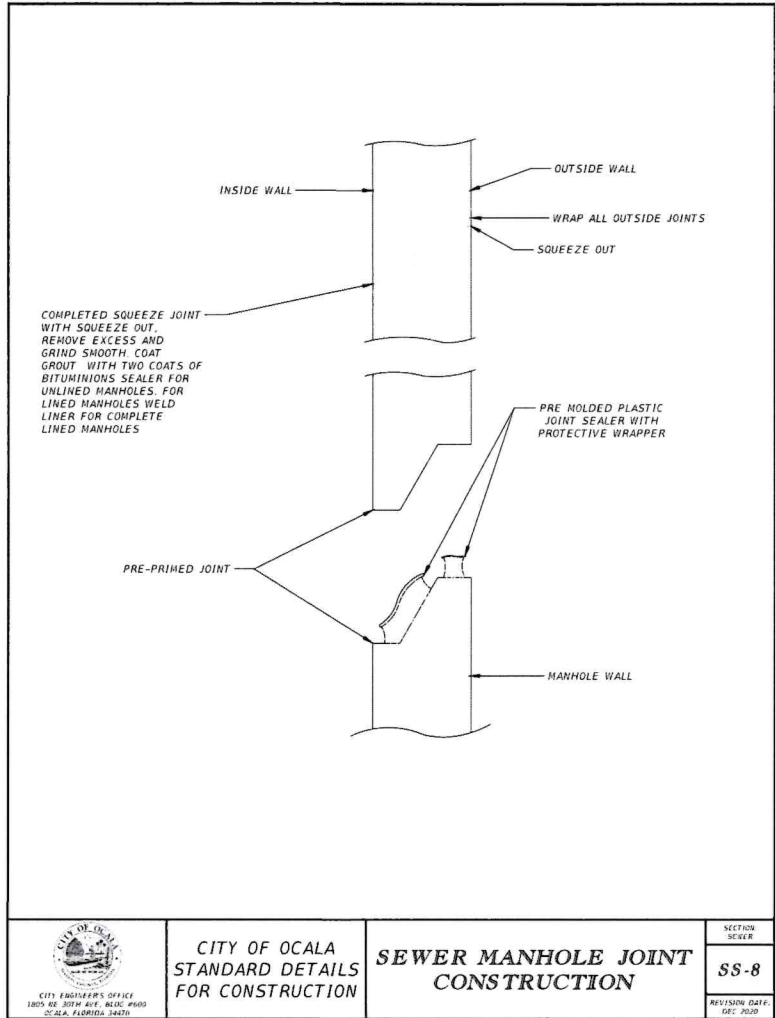
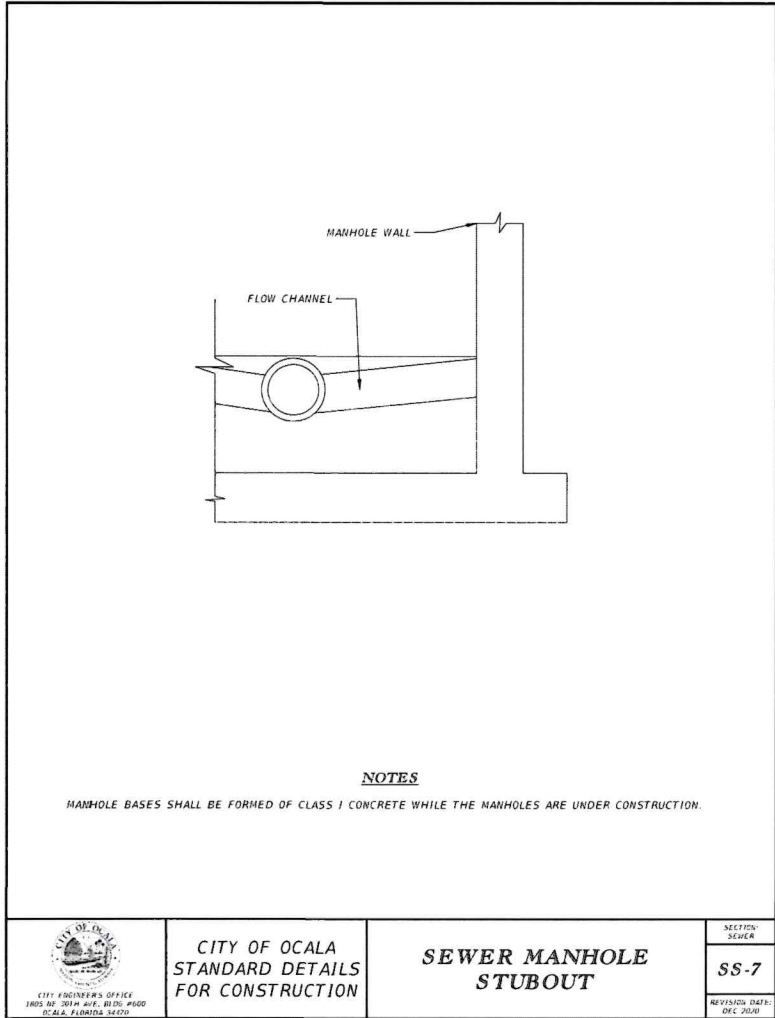
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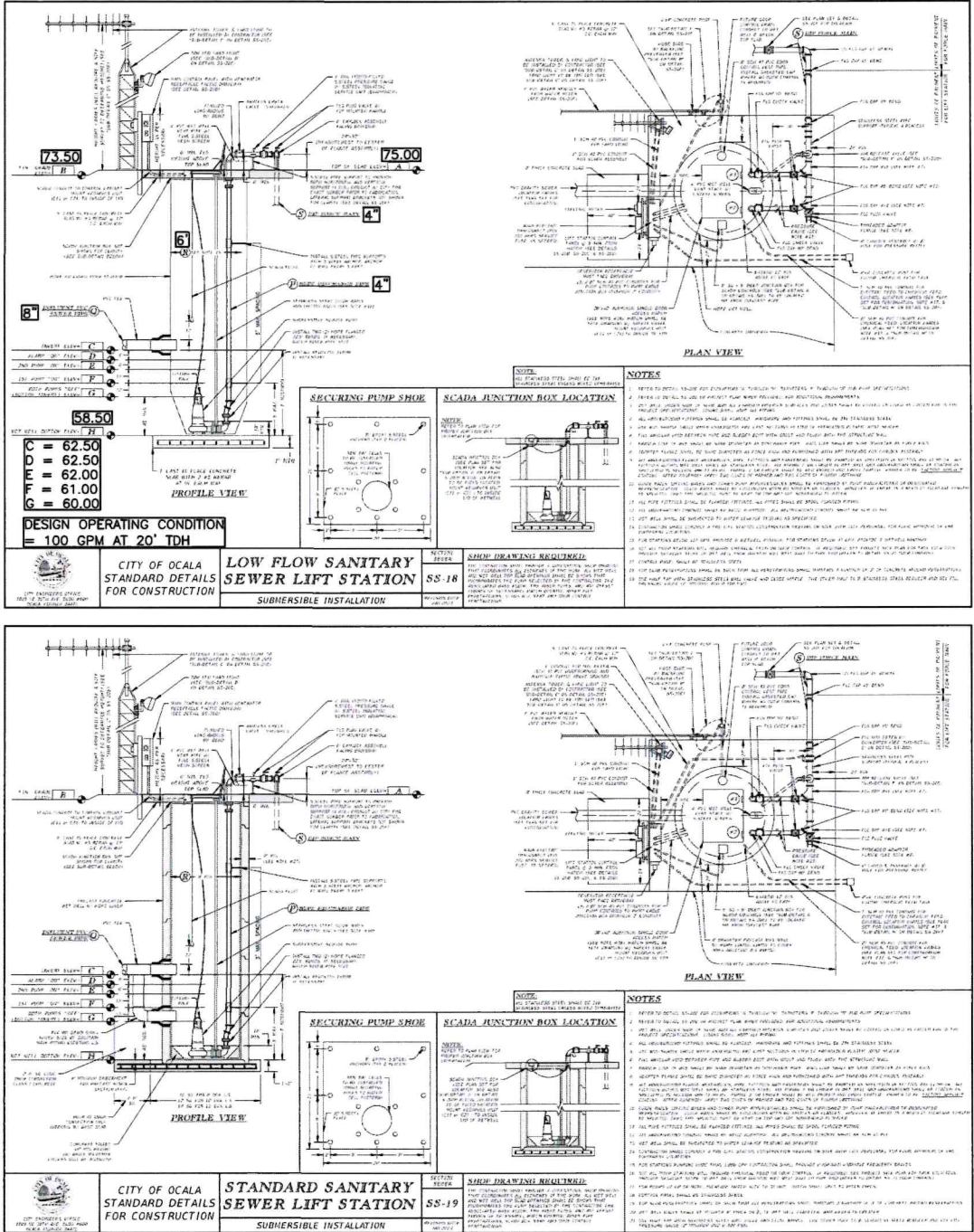
FEBRUARY 2024

Sheet Number:

UP-08



- FIELD-ERECTED WASTEWATER LIFT STATION NOTES:
- CONSTRUCTION SHALL BE IN STRICT CONFORMANCE WITH CITY OF OCALA STANDARD SPECIFICATION SECTION 33 32 11 DATED 2/16/2023, OR MORE CURRENT EDITION, AND THESE DETAILS.
 - SUBMERSIBLE SOLIDS HANDLING WASTEWATER PUMPS AND COMPATIBLE EQUIPMENT SHALL BE MANUFACTURED BY:
 - SULZER
 - GRUNDFOS
 - FLYGT
 - SHINMAYWA
 - APPROVED EQUAL ACCEPTABLE TO CITY OF OCALA
 - SEE ENLARGED SITE PLAN FOR ADDITIONAL INFORMATION AND DIMENSIONS.



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CONSULTING & ENGINEERING

5550 WEST IDELWILD AVE, SUITE 115
TAMPA, FLORIDA 33634 (813) 330-2701
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AVCON, INC.
ENGINEERS & PLANNERS
5585 E. MICHIGAN ST., SUITE 200 - ORLANDO, FL 32822-2779
OFFICE: (407) 999-1122 - FAX: (407) 999-1123
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

Project Name:
**NORTH DEVELOPMENT
ROAD**

Designer:	RP	Checked by:	RP
Technician:	JP	ICE Proj. No.:	23-024

Engineer of Record:

Digitally signed by
Robert H Palm
Date:
2024.02.21
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ROBERT H. PALM, P.E.
FLORIDA LICENSE NO. 45963

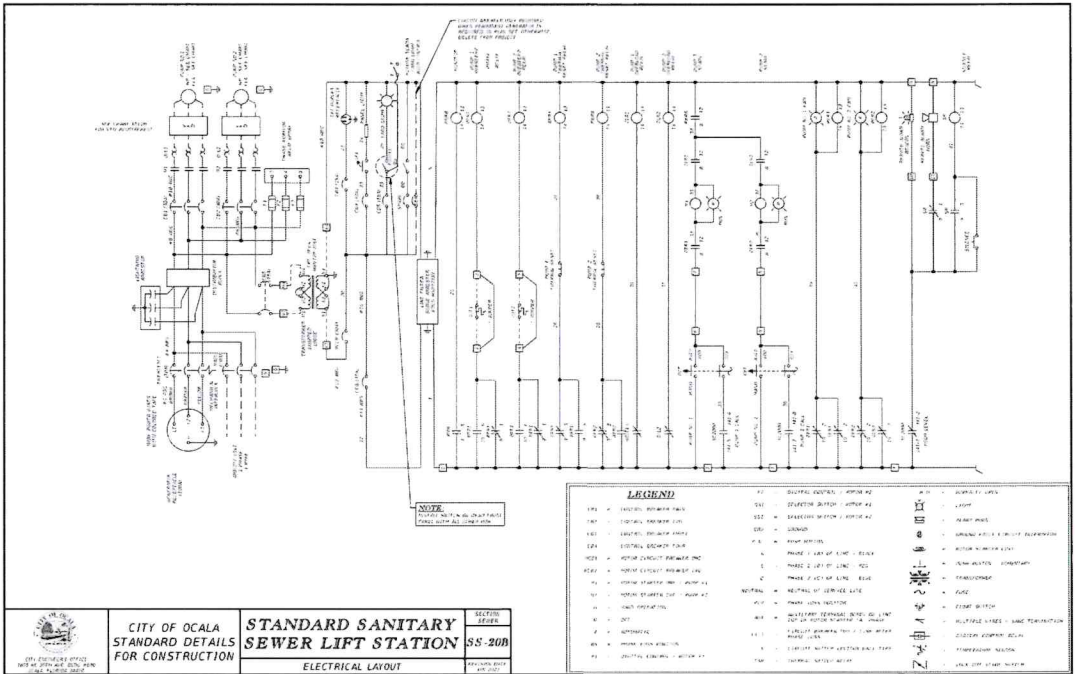
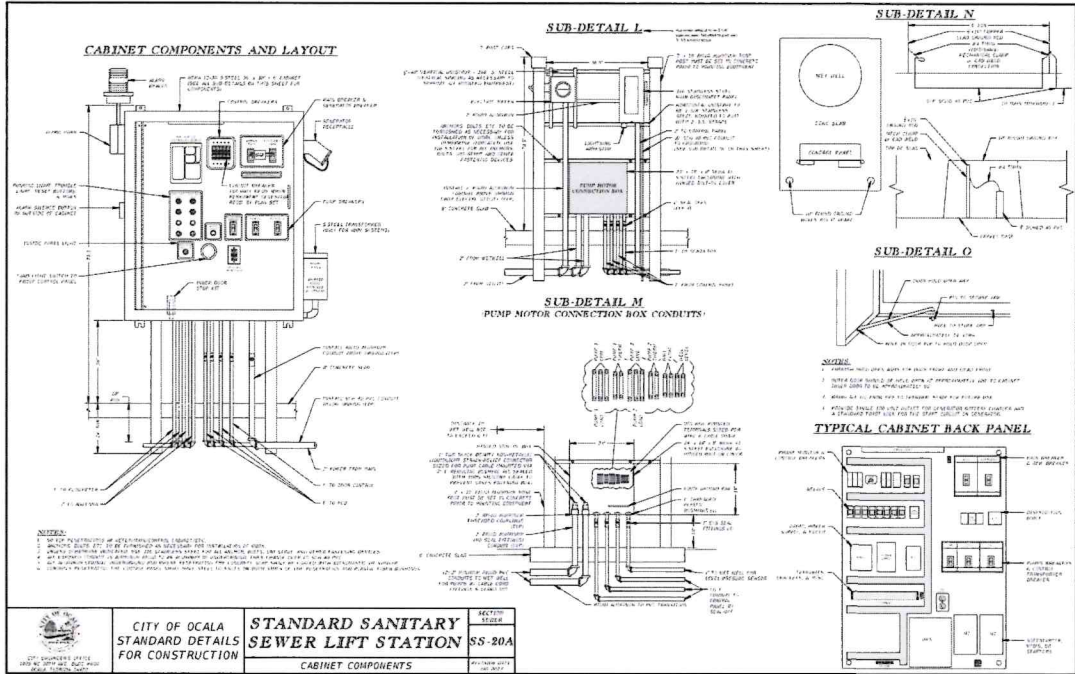
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No.	Description	Date	By

Drawing Name:
**UTILITY DETAILS
(SHEET 4 OF 8)**

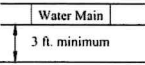
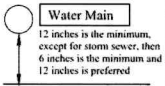
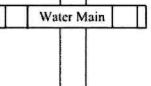
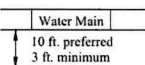
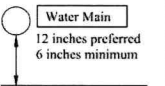
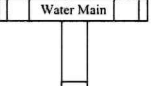
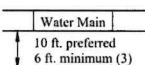
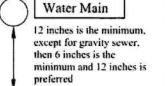
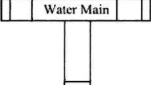
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FDOT Project No.:
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LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314			
Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Sewer, Stormwater Force Main, Reclaimed Water (2)			Alternate 3 ft. minimum 
Vacuum Sanitary Sewer			Alternate 3 ft. minimum 
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)			Alternate 6 ft. minimum 
On-Site Sewage Treatment & Disposal System	10 ft. minimum		


1. Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches.

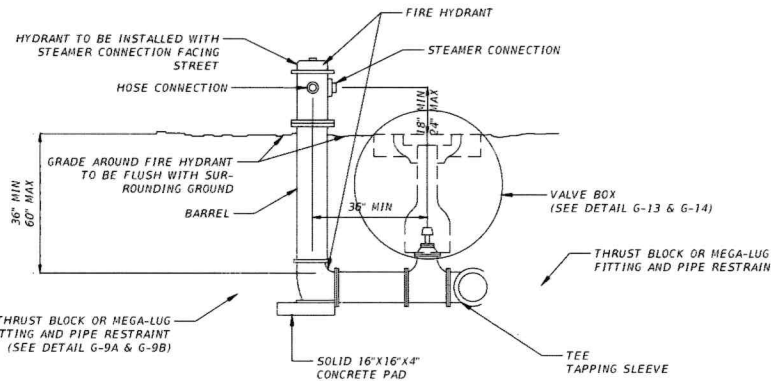
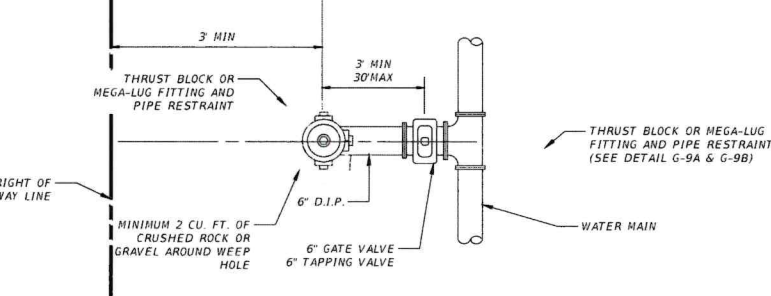
2. Reclaimed water regulated under Part III of Chapter 62-610, F.A.C.


3. 3 Ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer.

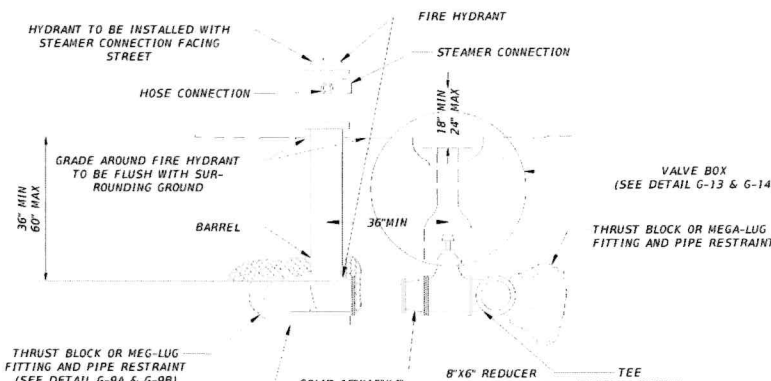
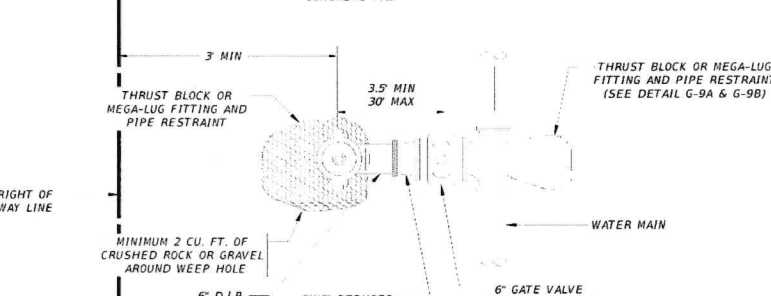
4. Reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.


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

	CITY OF OCALA STANDARD DETAILS FOR CONSTRUCTION	SEPARATION OF WATER MAINS	SECTION: WATER W-2 REVISION DATE: DEC. 2020
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NOTES 1. NO MORE THAN ONE BARREL SECTION SHALL BE ALLOWED WHEN ADJUSTING HYDRANT TO FINISHED GRADE. HYDRANT EXTENSIONS ARE TO BE SAME MANUFACTURER AS HYDRANT. MAXIMUM LENGTH OF EXTENSION SHALL BE 24". 2. NEW HYDRANTS TO BE INSTALLED WITH "OUT OF SERVICE" MARKER. INSTALL ON HYDRANT UNTIL HYDRANT IS CLEARED AND ACCEPTED BY FIRE DEPARTMENT. 3. NEW FIRE HYDRANTS TO BE FACTORY PAINTED RED. EXISTING HYDRANTS THAT REQUIRE REPAINTING TO BE PRESSURE WASHED (3000 PSI) TO REMOVE ALL LOOSE DEBRIS, PAINT OR OTHER FOREIGN MATERIALS. REPAINT HYDRANT TO IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. FINISH PAINT TO BE POLYURETHANE, "SAFETY RED". 4. PROVIDE ONE BLUE REFLECTIVE PAVEMENT MARKER (RPM) IN THE CENTER OF THE CLOSEST VEHICLE TRAVEL LANE AND DIRECTLY OPPOSITE THE HYDRANT LOCATION. 5. ALL HYDRANT ASSEMBLIES INCLUDE A HYDRANT TO GRADE.	

	CITY OF OCALA STANDARD DETAILS FOR CONSTRUCTION	FIRE HYDRANT ASSEMBLY PERPENDICULAR TO MAIN	SECTION: WATER W-3 REVISION DATE: DEC. 2020
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NOTES 1. NO MORE THAN ONE BARREL SECTION SHALL BE ALLOWED WHEN ADJUSTING HYDRANT TO FINISHED GRADE. HYDRANT EXTENSIONS ARE TO BE SAME MANUFACTURER AS HYDRANT. MAXIMUM LENGTH OF EXTENSION SHALL BE 24". 2. NEW HYDRANTS TO BE INSTALLED WITH "NOT IN SERVICE" BAG. INSTALL ON HYDRANT UNTIL HYDRANT IS CLEARED AND ACCEPTED BY FIRE DEPARTMENT. 3. NEW FIRE HYDRANTS TO BE FACTORY PAINTED RED. EXISTING HYDRANTS THAT REQUIRE REPAINTING TO BE PRESSURE WASHED (3000 PSI) TO REMOVE ALL LOOSE DEBRIS, PAINT OR OTHER FOREIGN MATERIALS. REPAINT HYDRANT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. FINISH PAINT TO BE RUST-OLEUM 639K7764402, "SAFETY RED" OR EQUIVALENT. 4. PROVIDE ONE BLUE REFLECTIVE PAVEMENT MARKER (RPM) IN THE CENTER OF THE CLOSEST VEHICLE TRAVEL LANE AND DIRECTLY OPPOSITE THE HYDRANT LOCATION. 5. FOR NEW HYDRANT INSTALLATION WHERE THE HYDRANT WILL BE INSTALLED ON THE OPPOSITE SIDE OF THE ROAD FROM THE WATER MAIN, SEE "TYPE C" FIRE HYDRANT INSTALLATION. 6. ALL HYDRANT ASSEMBLIES INCLUDE A HYDRANT TO GRADE.	

	CITY OF OCALA STANDARD DETAILS FOR CONSTRUCTION	FIRE HYDRANT ASSEMBLY 8" SERVICE LINE	SECTION: WATER W-6 REVISION DATE: DEC. 2020
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INFRASTRUCTURE CONSULTING & ENGINEERING

5550 WEST IDLEWILD AVE, SUITE 115
TAMPA, FLORIDA 33634 (813) 330-2701
CERTIFICATE OF AUTHORIZATION NO.: 30862



AVCON, INC.
ENGINEERS & PLANNERS
5555 E. MICHIGAN ST., SUITE 200 - ORLANDO, FL 32822-2779
OFFICE: (407) 99-1122 - FAX: (407) 99-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5657
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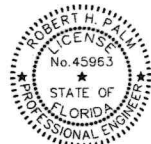
Project Name:

NORTH DEVELOPMENT ROAD

Designer: **RP** Checked by: **RP**

Technician: **JP** ICE Proj. No.: **23-024**

Engineer of Record:



Digitally
signed by
Robert H Palm
Date:
2024.02.21
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-05'00'

ROBERT H. PALM, P.E.
FLORIDA LICENSE NO. 45963

Notes:

REVISIONS			
No.	Description	Date	By

Drawing Name:
**UTILITY DETAILS
(SHEET 6 OF 8)**

FAA A.I.P. Project No.:

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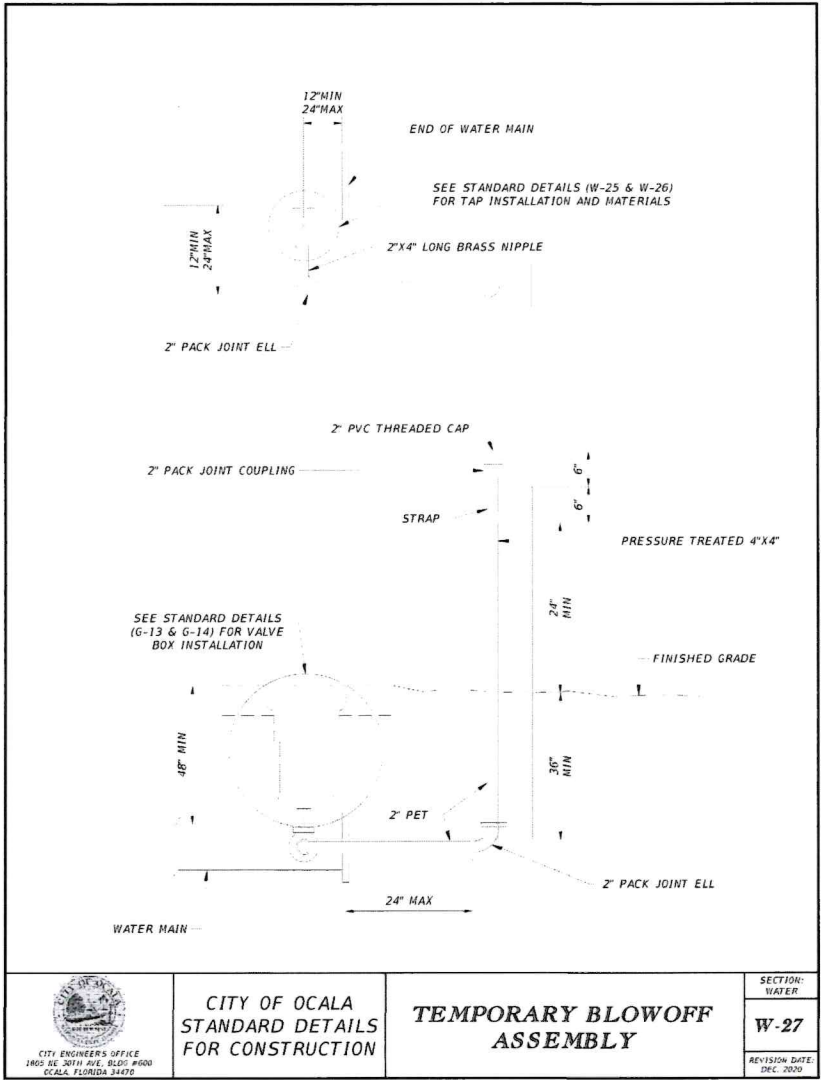
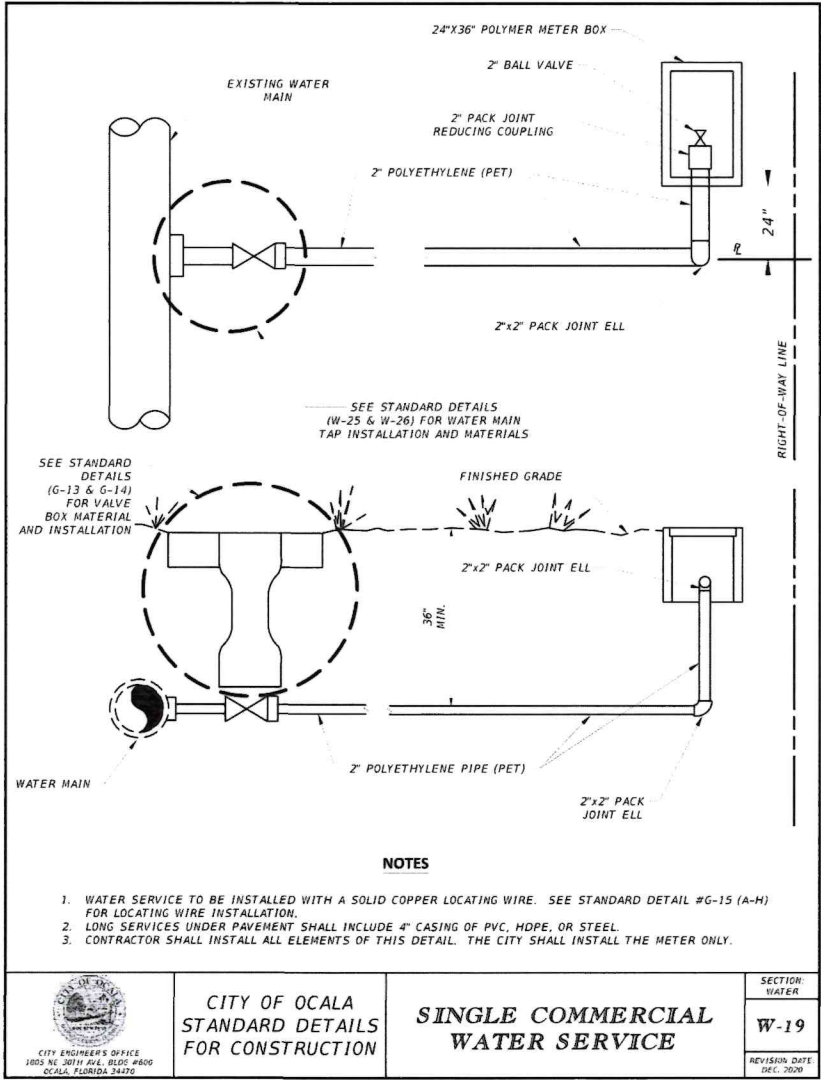
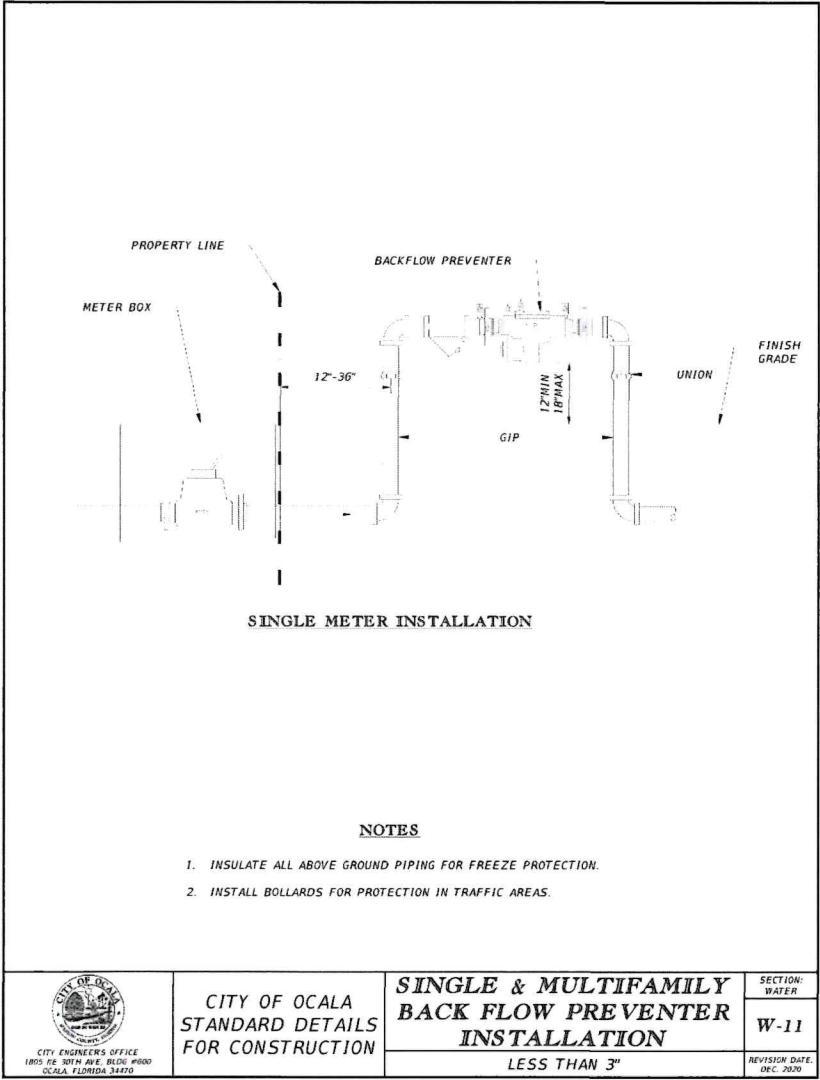
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CONSULTING & ENGINEERING


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Project Name:
**NORTH DEVELOPMENT
ROAD**

Designer: RP	Checked by: RP
Technician: JP	ICE Proj. No.: 23-024

Engineer of Record:

Digitally signed by Robert H Palm
Date: 2024.02.21 14:42:49 -05'00'
ROBERT H. PALM, P.E.
FLORIDA LICENSE NO. 45963

Notes:

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No.	Description	Date	By

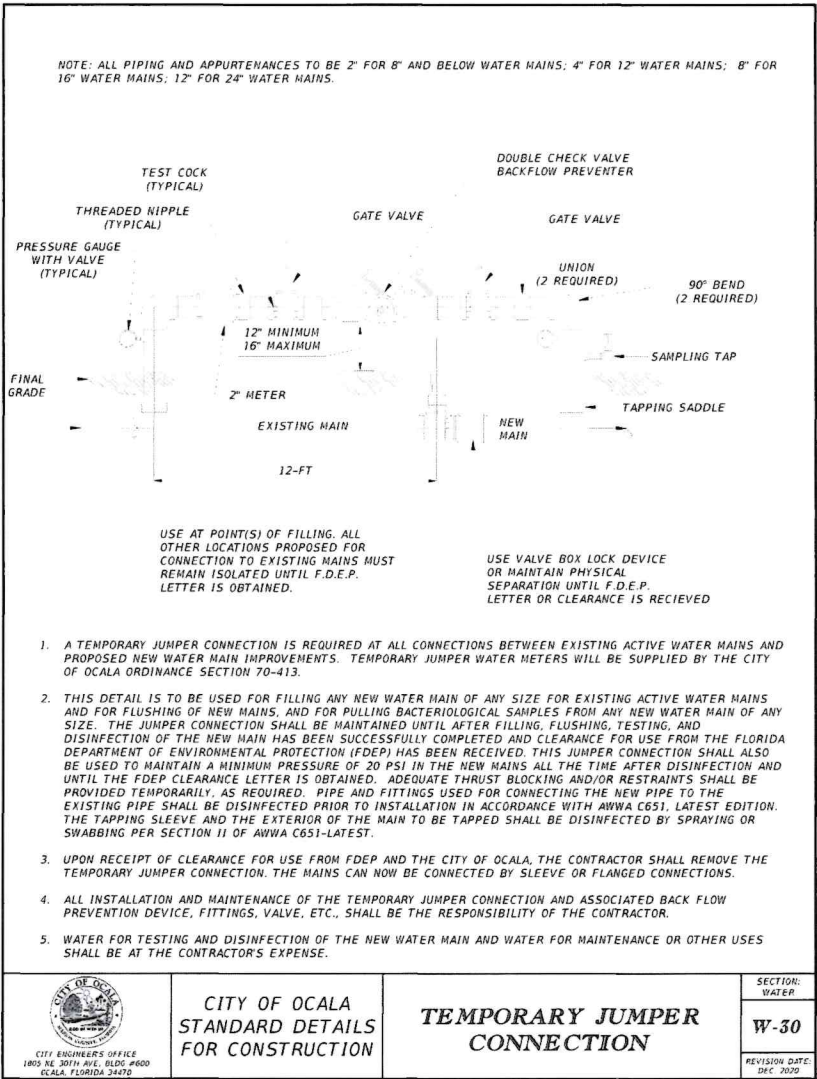
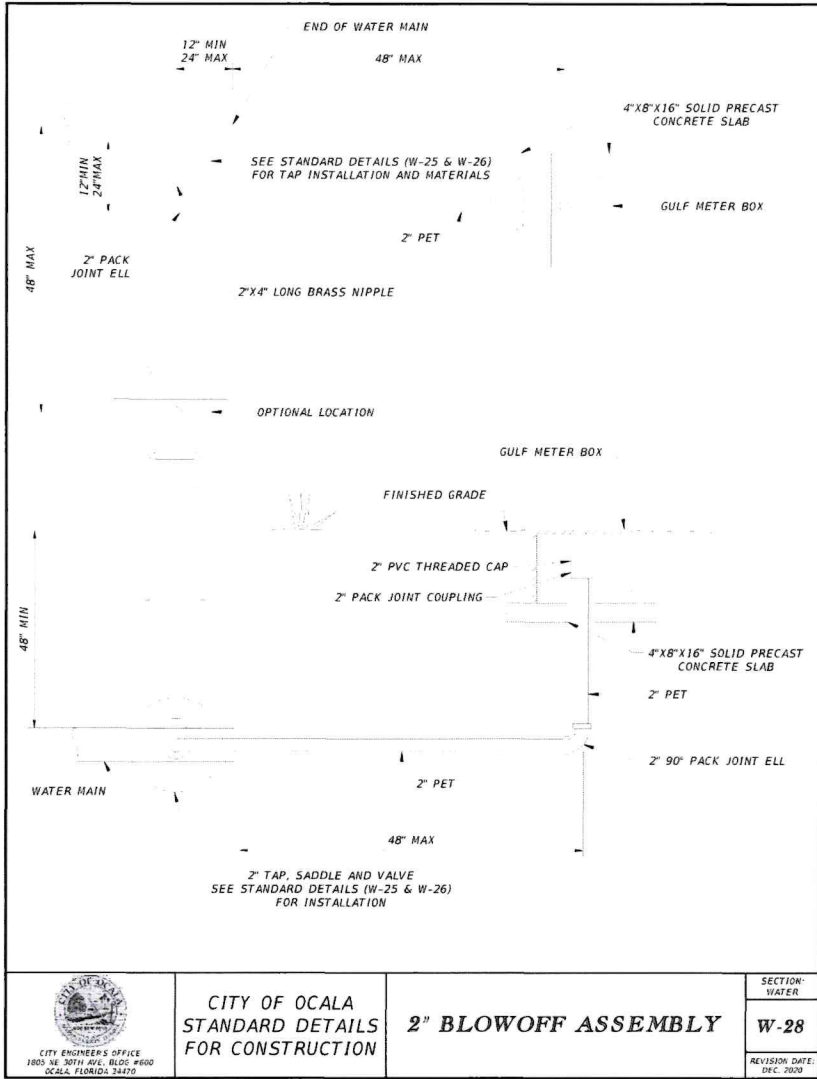
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(SHEET 7 OF 8)**

FAA A.I.P. Project No.:
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FDOT Project No.:
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INFRASTRUCTURE
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Designer:	Checked by:
RP	RP
Technician:	ICE Proj. No.:
JP	23-024

Engineer of Record:

Digitally signed by Robert H Palm
Date: 2024.02.21 14:43:31 -05'00'

ROBERT H. PALM, P.E.
FLORIDA LICENSE NO. 45963

Notes:

REVISIONS			
No.	Description	Date	By

Drawing Name:

**UTILITY DETAILS
(SHEET 8 OF 8)**

FAA A.I.P. Project No.:
xxxxxxx

FDOT Project No.:
xxxxxx

Date:	Sheet Number:
FEBRUARY 2024	UP-14

SHEET	TABLE OF CONTENTS
1	General Notes, TTC Tables
2	Definitions Temporary Traffic Control Devices Overhead Work Railroads Sight Distance Above Ground Hazard
3	Clear Zone Widths For Work Zones Superelevation Length Of Lane Closures Overweight/oversize Vehicles Lane Widths High-Visibility Safety Apparel Speed Reduction Signing
4	Flagger Control Survey Work Zones Signs
5	Work Zone Sign Supports
6	Commonly Used Warning and Regulatory Signs In Work Zones
7	Ranholes/Crosswalks/Joints Truck Mounted Attenuators Signals Channelizing Devices Channelizing Devices Consistency Advance Warning Arrow Boards
8	Drop-Offs In Work Zones
9	Business Entrance Temporary Asphalt Separator
10	Channelizing Devices Notes Temporary Barrier Notes
11	Pavement Markings

GENERAL NOTES:

- This Index contains information specific to the Federal and State guidelines and standards for the preparation of traffic control plans and for the execution of traffic control in work zones, for construction and maintenance operations and utility work on highways, roads and streets on the State Highway System. Certain requirements in this Index are based on the high volume nature of State Highways. For highways, roads and streets off the State Highway System, the local agency (City/County) having jurisdiction may adopt requirements based on the minimum requirements provided in the MUTCD.
- Use this Index in accordance with the Plans and Indexes 102-601 through 102-680. Indexes 102-601 through 102-680 are Department-specific typical applications of commonly encountered situations. Adjust device location or number thereof as recommended by the Worksite Traffic Supervisor and approved by the Engineer. Devices include, but are not limited to, flaggers, portable temporary signals, signs, pavement markings, and channelizing devices. Comply with MUTCD or applicable Department criteria for any changes and document the reason for the change.
- Except for emergencies, any road closure on State Highway System must comply with Section 335.15, F.S.

TABLE 1 CHANNELIZING DEVICE SPACING				
Work Zone Speed (mph)	Max. Spacing (feet)			
	Cones or Temporary Tubular Markers	Type I Barricades, Vertical Panels, or Drums	Taper	Tangent
≤ 45	25	50	25	50
≥ 50	25	50	50	100

TABLE 2 TAPER LENGTH "L"		
Work Zone Speed (mph)	Min. Length (feet)	Max. Length (feet)
≤ 40	L = $\frac{W}{S}$	60
≥ 45	L = $\frac{W}{S}$	60
Where: W = width of offset in feet S = speed in mph		

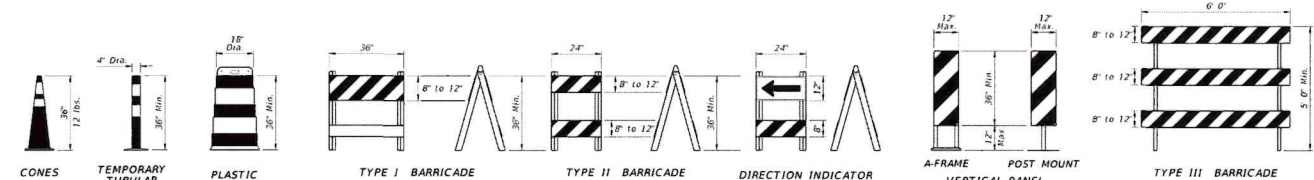
TABLE 3 WORK ZONE SIGN SPACING "X"		
Road Type	Min. Spacing (feet)	Max. Spacing (feet)
Arterials and Collectors with Work Zone Speed ≤ 40 mph	200	500
Arterials and Collectors with Work Zone Speed ≥ 45 mph	500	1,500
Limited Access Roadways	1,500	

* For Limited access roadways with work zone speed ≥ 55 mph, the minimum spacing may be reduced in accordance with the MUTCD and as approved by the Engineer.

TABLE 4 BUFFER LENGTH "B"		
Work Zone Speed (mph)	Min. Length (feet)	Max. Length (feet)
25	155	300
30	200	350
35	250	400
40	305	450
45	360	500
50	425	550
55	495	600
60	570	650
65	645	700
70	730	750

Note: When Buffer Length "B" cannot be attained due to geometric constraints, use the greatest length possible, but not less than 155 feet.

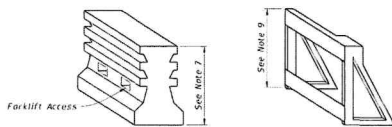
LAST REVISION	DESCRIPTION:	FDOT	FY 2023-24	GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES	INDEX	SHEET
11/01/20			STANDARD PLANS		102-600	1 of 11



CHANNELIZING DEVICES

CHANNELIZING DEVICE NOTES:

- The details shown on this sheet are for the following purposes:
 - For ease of identification and
 - To provide information that supplements or supersedes that provided by the MUTCD.
- The Type III Barricade shall have a unit length of 6'-0" only. When barricades of greater lengths are required those lengths shall be in multiples of the 6'-0" unit.
- No sign panel should be mounted on any channelizing device unless the channelizing device/sign combination was found to be crashworthy and the sign panel is mounted in accordance with the vendor drawing for the channelizing device shown on the Approved Products List (APL).
- Ballast shall not be placed on top rails or any striped rails or higher than 12" above the driving surface.
- The direction indicator barricade may be used in tapers and transitions where specific directional guidance to drivers is necessary. If used, direction indicator barricades shall be used in series to direct the driver through the transition and into the intended travel lane.
- The splicing of sheeting is not permitted on channelizing devices or MOT signs.
- For rails less than 2'-0" long, 4" stripes shall be used.
- Cones shall:
 - Be used only in active work zones where workers are present.
 - Be reflectorized as per the MUTCD with Department-approved reflective collars when used at night.
- For pedestrian longitudinal channelizing devices, the device shall have a minimum of 8" continuous detectable edging above the walkway. A gap not exceeding a height of 2" is allowed to facilitate drainage. The top surface of the device shall be a minimum height of 32" and have a 1/8" or less difference in any plane at all connection points between the devices to facilitate hand trailing. The bottom and the top surface of the device shall be in the same vertical plane. If pedestrian drop-off protection is required, the device shall have a top edge or offset of at least 2", otherwise the device must be at least 42" in height above the walkway and be anchored or ballasted to withstand a 200 lb lateral point load at the top of the device.



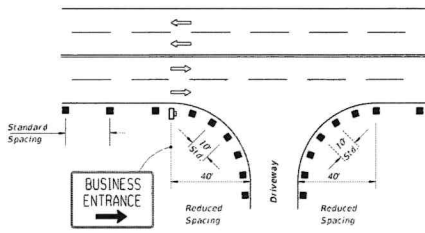
PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES

TEMPORARY BARRIER NOTES:

- Where a barrier is specified, any of the types below may be used in accordance with the applicable Index:

Index	Description
102-100	Temporary Barrier
102-120	Low Profile Barrier
536-001	Soundrail
- Trailer Mounted Barriers may be used to provide positive protection for workers within the work areas. APL drawings may be used as a guide to develop project specific Temporary Traffic Control Plans that are signed and sealed by the Contractor's Engineer.

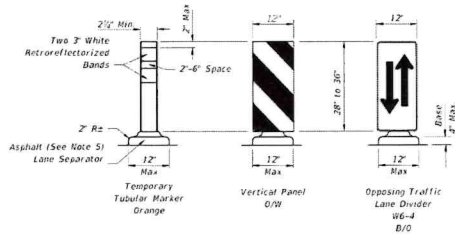
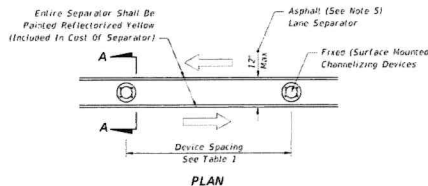
LAST REVISION	DESCRIPTION:	FDOT	FY 2023-24	GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES	INDEX	SHEET
11/01/20			STANDARD PLANS		102-600	10 of 11



- For single business entrances, place one 24" x 36" business sign for each driveway entrance affected. Signs shall show specific business names. Logos may be provided by business owners. Standard BUSINESS ENTRANCE sign in Index 700-102 may be used when approved by the Engineer.
- When several businesses share a common driveway entrance, place one 24" x 36" standard BUSINESS ENTRANCE sign in accordance with Index 700-102 at the common driveway entrance.
- Channelizing devices shall be placed at a reduced spacing on each side of the driveway entrance, but shall not restrict sight distance for the driveway users.
- Business entrance signs are intended to guide motorists to business entrances moved/modified or disturbed during construction projects. Business entrance signs are not required where there is minimal disruption to business driveways which is often the case with resurfacing type projects.

PLACEMENT OF BUSINESS ENTRANCE SIGNS AND CHANNELIZING DEVICES AT BUSINESS ENTRANCE

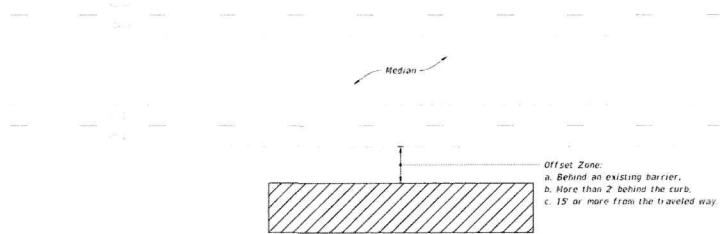
LAST REVISION	DESCRIPTION:	FDOT	FY 2023-24	GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES	INDEX	SHEET
11/01/20			STANDARD PLANS		102-600	9 of 11



FIXED (SURFACE MOUNTED) CHANNELIZING DEVICES SECTION A-A

- Temporary lane separators shall be supplemented with any of the following approved fixed (surface mounted) channelizing devices: temporary tubular markers, vertical panels, or opposing traffic lane divider panels. Opposing traffic lane divider panels (86-4) shall only be used as center lane dividers to separate opposing vehicular traffic on a two-lane, two-way operation. Temporary Tubular Markers, Vertical Panels and Opposing Traffic Lane Divider panels shall not be intermixed within the limits where the temporary lane separator is used. The connection between the channelizing device and the temporary lane separator curb shall hold the channelizing device in a vertical position.
- Reflectorized materials shall have a smooth sealed outer surface which will display the same approximate color day and night. Furnish channelizing devices having retroreflective sheeting meeting the requirements of Section 990.
- 12" openings for drainage shall be constructed in the asphalt and portable temporary lane separator at a maximum spacing of 25' in areas with grades of 1% or less or 50' in areas with grades over 1% as directed by the Engineer.
- Tapered ends shall be used at the beginning and end of each run of the temporary lane separator to form a gradual increase in height from the pavement level to the top of the temporary lane separator.
- The Contractor has the option of using portable temporary lane separators containing fixed channelizing devices in lieu of the temporary asphalt separator and channelizing devices detailed on this sheet. The portable temporary lane separator shall come in portable sections that can be connected to maintain continuous alignment between the separate curb sections. Each temporary lane separator section shall be 36 inches to 48 inches in total length. Portable temporary lane separators shall duplicate the color of the pavement marking. Portable temporary lane separators shall be one of those listed on the Approved Products List.

TEMPORARY LANE SEPARATOR



MULTILANE ROADWAY SHOWN, TWO-LANE ROADWAY SIMILAR

NOTES:

- This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work beyond the shoulder.
- Use Index 102-602 when the work operation texturing establishing and terminating the work area requires that two or more work vehicles cross the Offset Zone in any one-hour period.
- Use Index 102-660 when Work Area encroaches a Sidewalk.

SYMBOLS:

- Work Area
- Lane Identification and Direction of Traffic

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



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5550 WEST IDLEWILD AVE, SUITE 115
TAMPA, FLORIDA 33634 (813) 330-2701
CERTIFICATE OF AUTHORIZATION NO. 30862



AVCON, INC.
ENGINEERS & PLANNERS
5555 E. MICHIGAN ST., SUITE 200 - ORLANDO, FL 32822-2779
OFFICE: (407) 999-1122 - FAX: (407) 999-1123
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

Project Name:

NORTH DEVELOPMENT ROAD

Designer:	RP	Checked by:	RP
Technician:	MT	ICE Proj. No.:	23-024

Engineer of Record:



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Robert H Palm
Date:
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ROBERT H. PALM, P.E.
FLORIDA LICENSE NO. 45963

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No.	Description	Date	By

Drawing Name:

FDOT STANDARD DETAILS (SHEET 1 OF 2)

FAA A.I.P. Project No.:

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FDOT Project No.:

XXXXX

Date:

FEBRUARY 2024

Sheet Number:

UP-15

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5550 WEST IDLEWILD AVE, SUITE 115
TAMPA, FLORIDA 33634 (813) 330-2701
CERTIFICATE OF AUTHORIZATION NO. 30862



AVCON, INC.
ENGINEERS & PLANNERS
5555 E. MICHIGAN ST., SUITE 200 - ORLANDO, FL 32822-2779
OFFICE: (407) 598-1122 - FAX: (407) 598-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5957
www.avconinc.com

Project Name:

NORTH DEVELOPMENT ROAD

Designer:

RP

Checked by:

RP

Technician:

MT

ICE Proj. No.:

23-024

Engineer of Record:



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Drawing Name:

**FDOT STANDARD DETAILS
(SHEET 2 OF 2)**

FAA A.I.P. Project No.:

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FDOT Project No.:

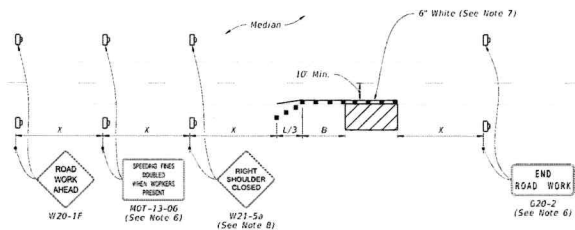
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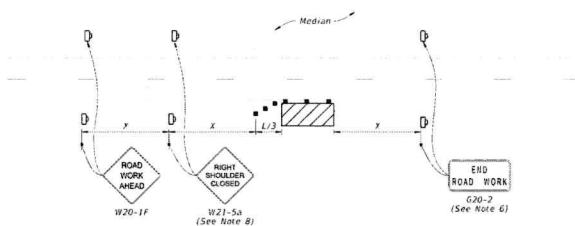
FEBRUARY 2024

Sheet Number:

UP-16



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

DESCRIPTION:



FY 2023-24
STANDARD PLANS

TWO-LANE AND MULTILANE, WORK ON SHOULDER

INDEX
102-602

SHEET
2 of 2

LAST
REVISION
11/01/21

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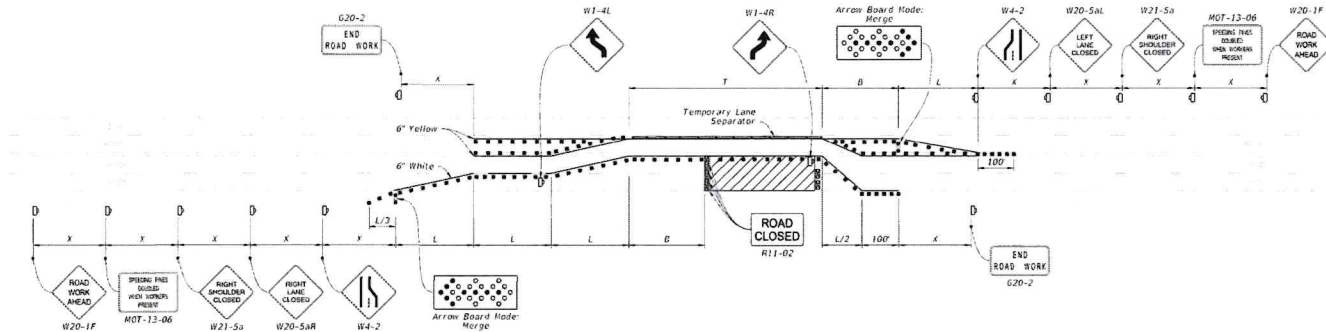


FY 2023-24
STANDARD PLANS

MULTILANE ROADWAY, LANE CLOSURES

INDEX
102-613

SHEET
1 of 5



TEMPORARY DIVERSION FOR UNDIVIDED ROADWAYS

NOTE:

Temporary pavement markings may be omitted when the work operation is in place for 3 days or less.

SYMBOLS:

Work Area

Channelizing Device (See Index 102-600)

Work Zone Sign

Type III Barricade

Crash Cushion

Lane Identification and Direction of Traffic

LAST
REVISION
11/01/21

DESCRIPTION:



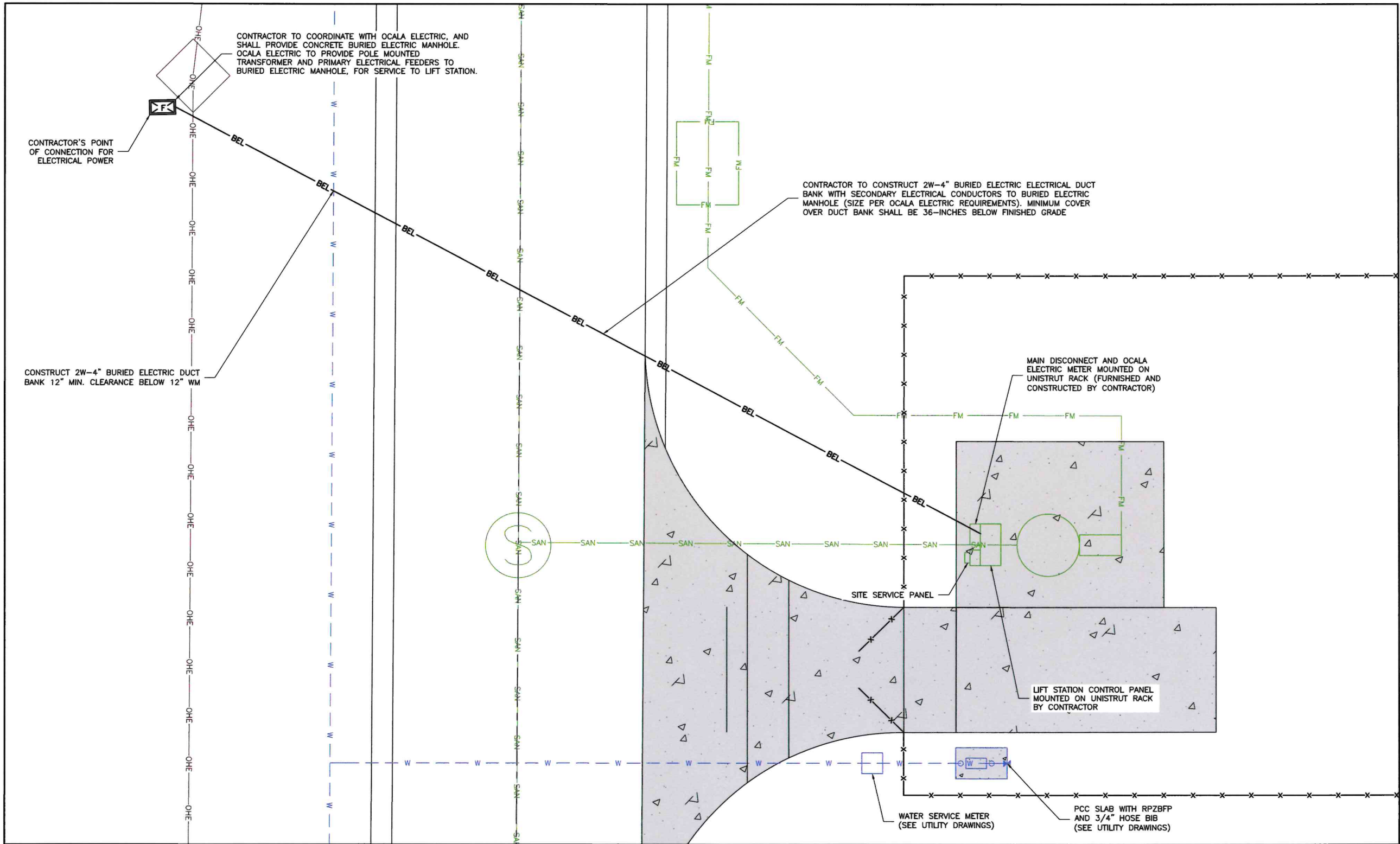
FY 2023-24
STANDARD PLANS

MULTILANE ROADWAY, TEMPORARY DIVERSION

INDEX
102-620

SHEET
2 of 2

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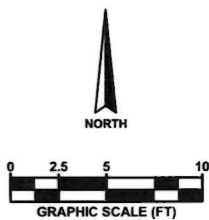


LEGEND

X	FENCE
FM	4" PVC FORCE MAIN
SAN	8" PVC SANITARY LINE
W	12" PVC WATER MAIN
OHE	OVERHEAD ELECTRICAL
PCC PAVEMENT	
BEL	BURIED ELECTRICAL

NOTE: OCALA ELECTRICAL SERVICE SHALL BE 120/208 V 3 PHASE, OR 120/240 V 3 PHASE POWER ONLY.

DRAWING REISSUED IN ITS ENTIRETY.



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5550 WEST IDELWILD AVE. SUITE 115
TAMPA, FLORIDA 33634 (813) 330-2701
CERTIFICATE OF AUTHORIZATION NO.: 30862



AVCON, INC.
ENGINEERS & PLANNERS
5555 E. MICHIGAN ST., SUITE 200 - ORLANDO, FL 32822-2779
OFFICE: (407) 599-1122 - FAX: (407) 599-1133
CORPORATE CERTIFICATE OF AUTHORIZATION NUMBER: 5057
www.avconinc.com

Project Name:

NORTH DEVELOPMENT ROAD

Designer: SD Checked by: SD
Technician: EH ICE Proj. No.: 23-024

Engineer of Record:

This item has been digitally signed and sealed by:



Digital signed by Sean Day
Date: 2024-03-18 14:44:20
SEAN DAY, P.E.
FLORIDA LICENSE NO. 80296

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Drawing Name:

ELECTRICAL SITE PLAN

FAA A.I.P. Project No.:

XXXXXXX

FDOT Project No.:

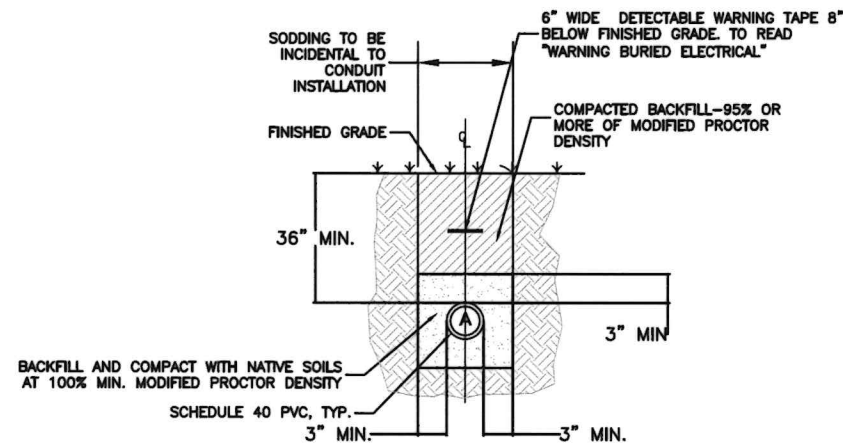
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FEBRUARY 2024

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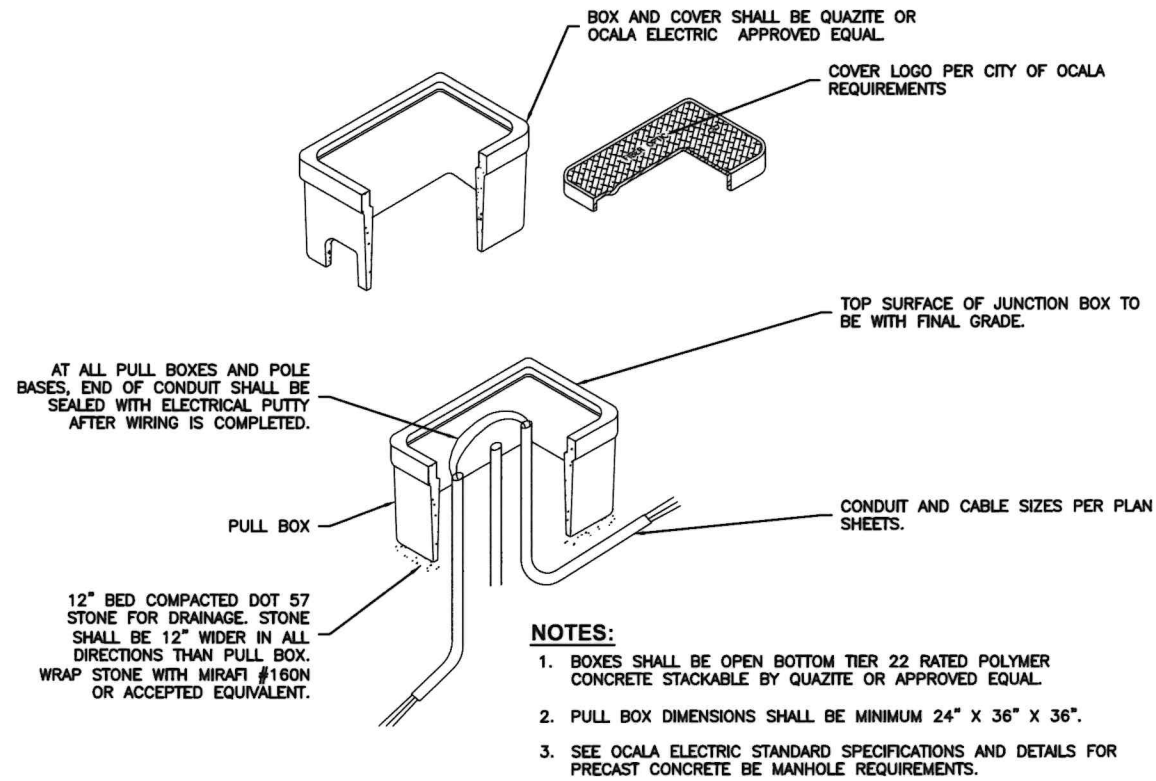
EL-01



- NOTE:**
1. SIZE AND NUMBER OF DUCTS SHALL BE PER OCALA ELECTRIC REQUIREMENTS.

ELECTRICAL DUCT INSTALLATION

N.T.S.



ELECTRICAL DUCT INSTALLATION

N.T.S.



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5550 WEST IDLEWILD AVE. SUITE 115
TAMPA, FLORIDA 33634 (813) 330-2701
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AVCON, INC.
ENGINEERS & PLANNERS
5555 E. MICHIGAN ST., SUITE 200 - ORLANDO, FL 32822-2779
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ROAD**

Designer:	Checked by:
SD	SD
Technician:	ICE Proj. No.:
EH	23-024

Engineer of Record:



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