

CITY OF JACKSONVILLE NOTES
GENERAL

All construction shall be performed in accordance with the approved plans and comply with all standard city policies and practices. City approval is contingent upon any required state or federal permit approvals such as those from the Department of Environmental Protection or the St. Johns River Water Management District (SJRWMD).

UTILITY WORK

Plan approval through Development Services does not include utilities. Proposed water, sewer or electric construction must be approved separately through the respective utility company. In most cases, this will be:

JEA
JEA Tower - 4th Floor
21 W. Church Street
Jacksonville, FL 32202
http://www.jea.com/business/services/devandbuild/developers.asp

WORK WITHIN THE RIGHT-OF-WAY

CITY: Except for new subdivision infrastructure construction, all work performed within a City of Jacksonville right-of-way or easement requires a Right-of-way Permit. The contractor performing the proposed work must have a current Right-of-way Bond on file with Development Services. Right-of-way Permit applications are processed at:

Development Services Customer Service Counter
Edward Ball Building, 2nd Floor
214 N. Hogan St.
Jacksonville, FL 32202
(904) 255-8572
http://row.jaxdev.info/

STATE: All work performed within a state right-of-way requires a permit from the Florida Department of Transportation (FDOT). It is the developer's responsibility to obtain required FDOT permits or maintenance-of-traffic approvals for work within FDOT right-of-ways. The FDOT regional office can be contacted at (904) 360-5200. Any changes to the approved plans needed for FDOT approval must be submitted to Development Services as revisions.

Adjacent State Roads: _____

RAILROAD: Railroad companies may require special approvals or permits to work within their right-of-ways. It is the developer's responsibility to obtain permission from any railroad right-of-way owner before performing any work within their right-of-way.

STORMWATER

Annual reports in compliance with the SJRWMD stormwater permits are required from the maintenance entity of all stormwater management facilities. Send copies of the reports to:

Engineering and Construction Management
Edward Ball Building, 10th Floor
214 N. Hogan St.
Jacksonville, FL 32202
http://www.coj.net/Departments/Public+Works/Engineering+and+Construction+Management/

The owner of any project one (1) acre or larger is required to provide a Notice of Intent (NOI) in accordance with criteria set forth in the city's NPDES permit within 48 hours of beginning construction. Send NOI and NOI fee to:

Florida Department of Environmental Protection
NPDES Stormwater Notices Center, Mail Station #2510
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
(850) 336-6312
http://www.dep.state.fl.us/water/stormwater/npdes/

The contractor shall contact the Environmental Quality Division, Erosion and Sedimentation Control Section (ESC) to provide verification that applicable stormwater permits have been obtained and to schedule a pre-construction ESC site inspection:

Environmental Quality Division
214 North Hogan Street, 9th Floor
Jacksonville, FL 32202
(904) 255-7100 or esd@coj.net

FIRE MARSHALL

Plan review and approval does not relieve the contractor of complying with all applicable State Fire Codes.

Underground mains and hydrants shall be installed, completed, and in service prior to construction work.

Underground contractor shall submit to the Fire Marshall for approval complete specs for all underground pipe and fittings relating to fire protection PRIOR to installation and inspection. Contractor shall include manufacturer's name and pipe ID along with contractor's state license number.

LANDSCAPE

A Site Work Permit is required for this project.

☐ Tree Fund payment is due: _____ inches at \$_____ = \$_____

☐ Article 25 funds are due: _____ inches at \$_____ = \$_____

TRAFFIC ENGINEERING

TRAFFIC SIGNS

Metro Name (each) _____ 0 _____

Standard (each) _____ 0 _____

Stop/Yield (each) _____ 0 _____

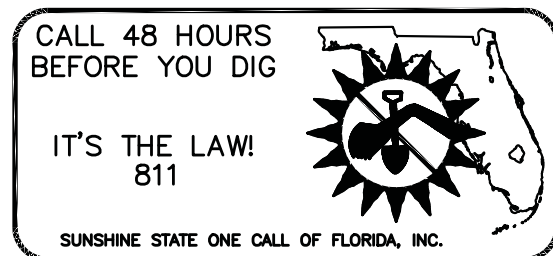
Design (per plat) _____ 1 per plat

Installation (per hour) _____ 1 per 2 signs (rounded up)

☒ Streetlights Required

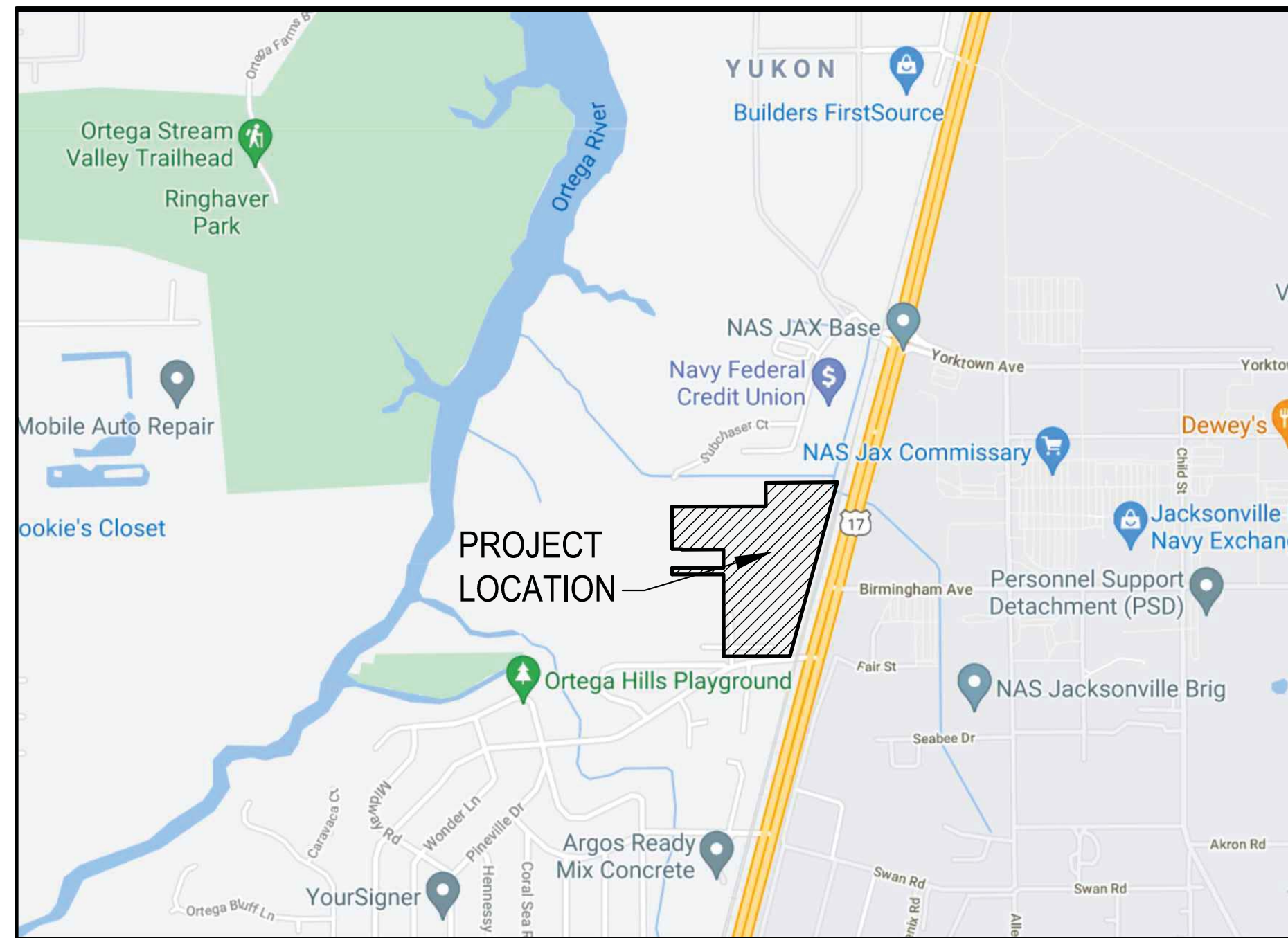
NOTE: Traffic sign costs change from time to time. Consult Attachment 8 of the Land Development Procedures Manual (http://ldpm.jaxdev.com/) for the current rates before paying for any sign installations.

No lane closures allowed from 7 a.m. till 9 a.m. and from 4 p.m. till 6 p.m.



FENNEL ROAD
(PUBLIC ROAD)
FOR
RCBF PROPERTIES, LLC

4527 FENNEL ROAD
DUVAL COUNTY, FLORIDA



VICINITY MAP
N.T.S.

INDEX OF DRAWINGS

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PROJECT OWNER AND CONSULTANTS

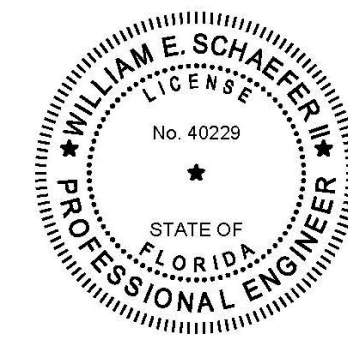
OWNER: RCBF PROPERTIES, LLC
3491 PALL MALL ROAD, 3202
JACKSONVILLE, FL 32257
CONTACT: BLAIR FONDA
TEL: (904) 465-2477

ENGINEER: DOMINION ENGINEERING GROUP, INC.
4348 SOUTHPOINT BLVD, SUITE 201
JACKSONVILLE, FLORIDA 32216
CONTACT: WILLIAM E. SCHAEFER, P.E.
TEL: (904) 854-4500 FAX: (904) 854-4505

SURVEYOR: PERRET & ASSOCIATES, INC.
1484 MONTICELLO ROAD
JACKSONVILLE, FL 32207
CONTACT: NATHAN P. PERRET
TEL: (904) 805-0030



REVISIONS	SUBMITTALS
1.	SJRWMD SUBMITTAL - 06/23/2021
	JEA SUBMITTAL - 12/01/2022
	JEA SUBMITTAL - 03/10/2023
	SJRWMD SUBMITTAL - 08/25/2023
	COJ SUBMITTAL - 04/29/2024
	COJ SUBMITTAL - 01/14/2025
	COJ SUBMITTAL - 06/16/2025
	SJRWMD SUBMITTAL - 10/20/2025
	COJ SUBMITTAL - 10/20/2025



William E. Schaefer II
This item has been digitally signed and sealed by WILLIAM E. SCHAEFER II, PE on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.
2025.10.22 16:41:44 -04'00'
WILLIAM E. SCHAEFER, II P.E.
FLA. REGISTERED ENGINEER # 40229

Approved By: Ellyn Cavin
Stamp By: Kevin Robinson
Approved On: November 5, 2025
Date: _____ Development Services Division (Chief)
Date: _____ Review Group (Reviewer)

Plan approval is valid for five years after the initial approval date. Revisions made after the initial approval date do not extend this five-year time frame.

PLAN APPROVAL IS SUBJECT TO THE FOLLOWING NOTES AND CONDITIONS:

Contact Charlee Fox, Planning Services Manager at charleef@coj.net to schedule a preconstruction meeting. This roadway to be dedicated to COJ.

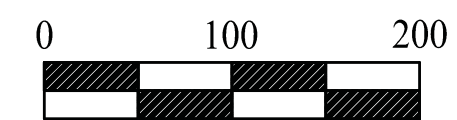
All Civil Plans Require a Site Work Permit to be Issued Prior to the start of Clearing Operations

Site Work Permits must be filed electronically and requires the Owner's notarized signature on the permit form and a copy of the stamped and approved civil plan documents. Contact our Landscape Permit Assistant, Alice Muir, at 904/255-8514 or AMuir@coj.net for further assistance.

GENERAL PROJECT INFORMATION

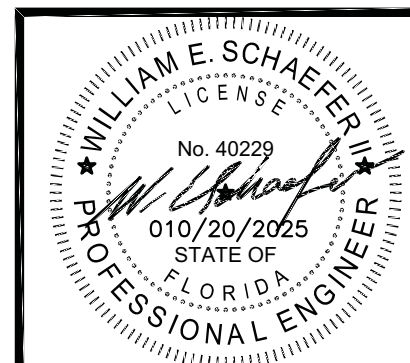
GENERAL	
City Development Number	10773.0
Concurrency Application Number	
Property Appraiser Number (RE #)	098410-0010
Zoning Designation	RLD60, LDR, IBP
Zoning Application(s) (if any)	
PUD Ordinance Number	
FIRM - Community - Panel	12031C0527J
Flood Zones (Show in Plans)	ZONE X
Base Flood Elev. (Show in Plans)	N/A
Vertical Datum Used for Project	NAVD 88
JEA Availability Number	2022-3734
SUBDIVISION	
PSD Number	N/A
City or Private Inspection	CITY
Public or Private Roads	PUBLIC
Subdivision ("911") Disk Provided?	YES
NON-SUBDIVISION	
North American Industry Classification System (NAICS)	N/A
Impervious Area (Sq. Ft.)	N/A

DEG JOB No. 2154.003 (FENNEL ROAD)



SITE BOUNDARY
EXISTING DRAINAGE FLOW
DRAINAGE DIVIDE
EXISTING SPOT ELEVATION
EXISTING CONTOURS
STATE JURISDICTIONAL WETLAND LINE

1. PRE DEVELOPED CURVE NUMBER OF 77 IS A COMPOSITE CURVE NUMBER FOR THE SITE.
2. ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY THIS PROJECT IS LOCATED IN FLOOD ZONE "X" AS DETERMINED BY SCALE FROM FEDERAL INSURANCE RATE MAPS (FIRM) PANEL NUMBER 12031C0527J DATED NOVEMBER 2, 2018.





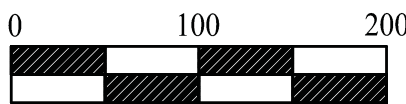
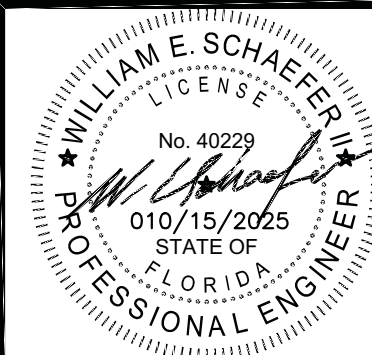
DOMINION ENGINEERING GROUP, INC.
PLANNERS AND ENGINEERS
4348 SOUTHPOINT BLVD, SUITE 201, JACKSONVILLE, FLORIDA 32216
TEL: 904-854-4500 REGISTRY NUMBER: 26821 FAX 904-854-4505
www.dom-eng.com

FENNELL COMMERCIAL DEVELOPMENT
FOR
RCBF PROPERTIES, LLC
POST DEVELOPMENT PLAN

REVISIONS

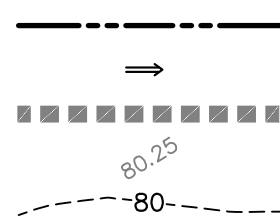
PLOT DATE:
DRAWN BY: JMM
DESIGNED BY: CN
CHECKED BY: WES
SCALE: AS NOTED
JOB NO.: 2154.003
© LATEST DATE HEREON
SHEET NO.

C2
OF XX



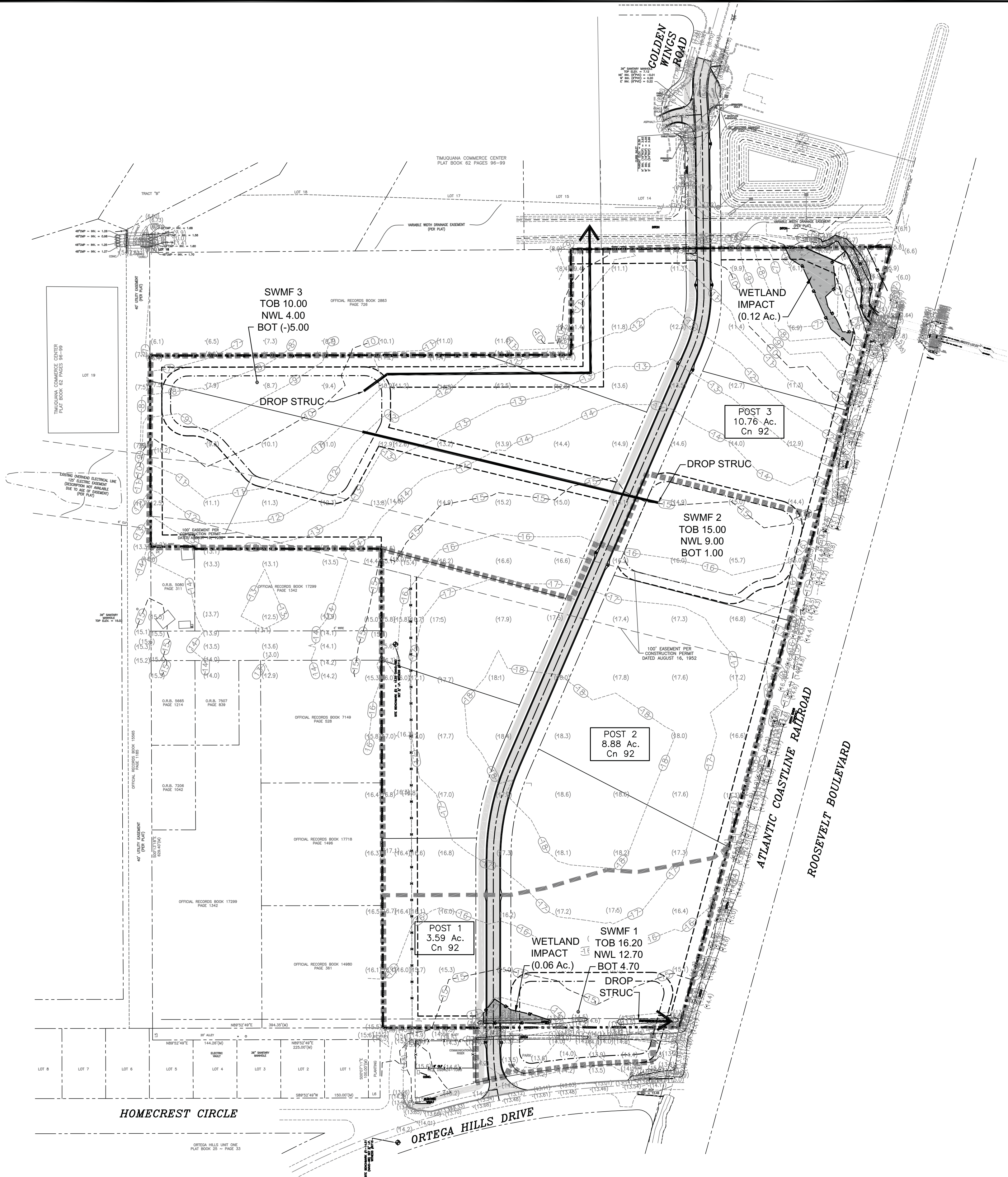
LEGEND

SITE BOUNDARY
PROPOSED DRAINAGE FLOW
DRAINAGE DIVIDE
EXISTING SPOT ELEVATION
EXISTING CONTOURS



NOTES:

1. POST DEVELOPED CURVE NUMBER OF 92 IS A COMPOSITE CURVE NUMBER FOR THE SITE.





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PLANNERS AND ENGINEERS
4348 SOUTHPOINT BLVD, SUITE 201, JACKSONVILLE, FLORIDA 32216
TEL: 904-854-4500 REGISTRY NUMBER: 26821 FAX 904-854-4505
www.dom-eng.com

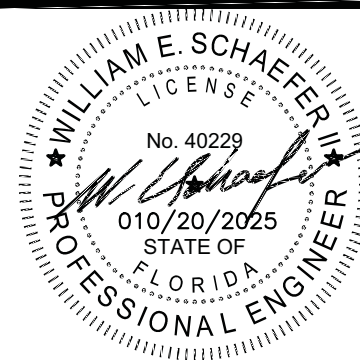
**FENNEL COMMERCIAL DEVELOPMENT
FOR
RCBF PROPERTIES, LLC**

GEOMETRY PLAN

REVISIONS

PLOT DATE:
DRAWN BY: JMM
DESIGNED BY: CN
CHECKED BY: WES
SCALE: AS NOTED
JOB NO.: 2154.003
© LATEST DATE HEREON
SHEET NO.

C3
OF XX

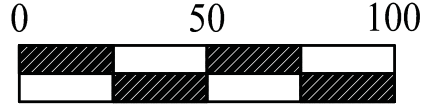


GENERAL NOTES

- BOUNDARY INFORMATION, WETLAND AND TOPOGRAPHIC DATA PROVIDED BY PERRET AND ASSOCIATES, INC. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED ON PLANS.
- SEE SHEET C13 FOR TYPICAL ROADWAY SECTION.
- ALL SIDEWALK HANDICAP RAMPS SHALL BE FDOT TYPE RAMPS INSTALLED PER FDOT INDEX 522-002.

LEGEND

SITE BOUNDARY	---
PROPOSED PAVEMENT	=====
EXISTING PAVEMENT	-----
RADIUS	R
POINT OF CURVATURE	P.C.
POINT OF INTERSECTION	P.I.
POINT OF TANGENCY	P.T.
PUBLIC UNOBSTRUCTED DRAINAGE EASEMENT	UDE
PRIVATE UNOBSTRUCTED DRAINAGE EASEMENT	PUDE
STOP SIGN & 24" WHITE STOP BAR	SS/SB
STATE JURISDICTIONAL WETLAND LINE	JD



PAVEMENT MARKINGS STANDARDS

- PAVEMENT MARKINGS SHOULD BE PLACED AS SHOWN ON THE PLANS AND DETAIL SHEETS.
- ANY REQUIRED TEMPORARY MARKINGS MUST BE IN PLACE BEFORE OPENING LANES OF TRAFFIC. PAY ITEMS FOR TEMPORARY PAVEMENT MARKINGS ARE TO BE INCLUDED IN THE TABULATION OF QUANTITIES.
- THE REMOVAL OF EXISTING PAVEMENT MARKINGS WILL BE CONSIDERED AN INCIDENTAL ITEM WITH NO ADDITIONAL COMPENSATION PROVIDED.
- ALL PERMANENT PAVEMENT MARKINGS SHALL BE EXTRUDED THERMOPLASTIC AND MEET CURRENT CITY OF JACKSONVILLE SPECIFICATIONS AND/OR FDOT STANDARD SPECIFICATIONS, LATEST EDITION.
- THERMOPLASTIC PAVEMENT MARKINGS ARE TO BE PLACED NO SOONER THAN 30 CALENDAR DAYS AFTER THE COMPLETION OF THE FINAL PAVEMENT LAYER.
- A BITUMINOUS REFLECTIVE PAVEMENT MARKER (RPM) ADHESIVE MEETING CURRENT CITY OF JACKSONVILLE AND/OR FDOT SPECIFICATIONS SHALL BE USED ON ASPHALT ROADWAYS.
- THE CONTRACTOR SHALL USE CLASS-B REFLECTIVE PAVEMENT MARKERS (RPMs) INSTALLED TO MEET CURRENT CITY OF JACKSONVILLE SPECIFICATIONS AND /OR FDOT STANDARD SPECIFICATIONS.
- REFLECTIVE PAVEMENT MARKERS THAT DO NOT CONFLICT WITH PERMANENT (THERMOPLASTIC) MARKINGS SHALL BE PLACED ON ALL FINAL ASPHALTIC CONCRETE SURFACES IMMEDIATELY AFTER THE TEMPORARY PERMANENT STRIPING IS IN PLACE.
- PAVEMENT MARKINGS REMOVAL:
 - PAINT BLACKOUT METHOD OF PAVEMENT MARKINGS REMOVAL IS NOT ACCEPTABLE.
 - GRINDING OR HYDRO BLAST METHODS SHALL BE USED ON WEATHERED ASPHALT SURFACES
 - REMOVAL ON NEW ASPHALT SURFACES SHALL BE BY HYDRO BLAST METHOD ONLY.
- THE CONTRACTOR SHALL CONTACT THE PAVEMENT MARKING INSPECTOR (904) 255-7550 48 HOURS PRIOR TO INSTALLING ANY PAVEMENT MARKINGS ON ANY CITY OF JACKSONVILLE ROADWAY OR STREET.
- IN THE EVENT OF A CONFLICT BETWEEN THE SPECIFICATIONS OF THE CITY OF JACKSONVILLE AND THE SPECIFICATIONS OF THE FDOT, THE CITY OF JACKSONVILLE WILL PREVAIL.
- ALL SIGNAGE TO COMPLY WITH THE CITY OF JACKSONVILLE LAND DEVELOPMENT PROCEDURES MANUAL SECTION 1.8.

ALIGNMENT LINES		
L#	DISTANCE	BEARING
L1	315.76	N0°00'00"E
L2	771.15	N2°32'21"E
L3	266.86	N0°36'26"W
L19	41.61	S86°27'30"W
L20	9.31	S61°05'54"W

ALIGNMENT CURVE				
C#	LENGTH	RADIUS	DELTA	CH LENGTH
C1	100.11	500.54	11.4597	N5°43'58"W 99.95
C2	163.75	400.00	23.4557	N11°43'40"E 162.61
C3	104.99	250.00	24.0630	N11°25'27"E 104.22
C4	25.61	500.00	2.9345	N2°04'28"W 25.61
C24	17.70	40.00	25.3599	S73°46'42"W 17.56

SWMF LINES		
L#	DISTANCE	BEARING
L4	207.36'	S89°52'49"W
L5	106.20'	S0°00'00"E
L6	53.24'	N86°57'19"E
L7	87.95'	N15°12'03"E

SWMF CURVES				
C#	LENGTH	RADIUS	DELTA	CH LENGTH
C6	31.37'	20.00'	89.88	S44°56'25"W 28.25'
C7	25.82'	15.00'	98.62	S49°18'40"E 22.75'
C8	135.70'	1393.88'	5.58	N84°10'00"E 135.65'
C9	25.05'	20.00'	71.75	N51°04'41"E 23.44'
C10	36.76'	20.00'	105.32	N37°27'34"W 31.80'

MATCHLINE STA 19+00.00 SEE SHEET C4

4
(54,707.28 SF)

10' UNCOMPLIMENTARY BUFFER

248.8'

6' WOOD FENCE
95% OPAQUE

5
(52,738.44 SF)

10'X10' MIN JEA
EASMENT(TYP)

10' UNCOMPLIMENTARY BUFFER

10' MULTI-USE PATH

6
(51,792.33 SF)

10'X10' MIN JEA
EASMENT(TYP)

6' WOOD FENCE
95% OPAQUE

CITY STANDARD
CURB & GUTTER

20' LA BUFFER

N89°52'49"E

PT: 11+00.11
AT&T
PARCEL

CURB TRANSITION TO
ZERO REVEAL
SS/SB

10' MULTI-USE PATH

10' UNCOMPLIMENTARY BUFFER

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LEGEND

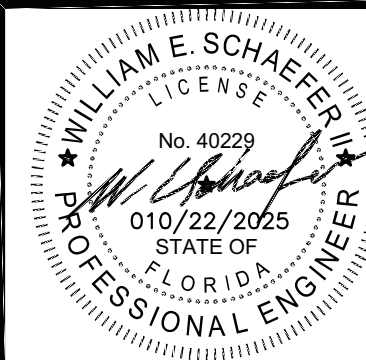
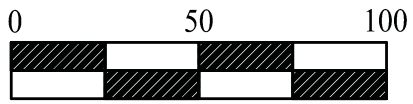
- SITE BOUNDARY
EXISTING PAVEMENT
PROPOSED PAVEMENT
EXISTING SPOT ELEVATION
PROPOSED ROAD ELEVATION
EXISTING ELEVATION
PROPOSED ELEVATION
TOP OF WALL
BOTTOM OF WALL
STATE JURISDICTIONAL WETLAND LINE
MAJOR DRAINAGE DIVIDE
MINOR DRAINAGE DIVIDE
PROPOSED SWALE CENTERLINE
PROPOSED TOP OF BANK
PROPOSED LOW MAINTENANCE ZONE
EXISTING DRAINAGE FLOW
PROPOSED DRAINAGE FLOW
PROPOSED INLET
PROPOSED INLET
PUBLIC UNOBSTRUCTED DRAINAGE EASEMENT
PUBLIC UNOBSTRUCTED DRAINAGE/ACCESS EASEMENT
PRIVATE UNOBSTRUCTED DRAINAGE EASEMENT

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- ALL STORMWATER MANAGEMENT SYSTEMS TO HAVE UNOBSTRUCTED DRAINAGE EASEMENT FROM T.O.B. TO T.O.B.
- RETAINING WALLS WILL BE OWNED AND MAINTAINED BY PROPERTY OWNERS (NOT THE CITY OF JACKSONVILLE)

Structure Table	
Structure Name	Structure Details
S1 TYPE E INLET	RIM = 16.00 INV OUT = 10.00(E)
S2 MANHOLE	RIM = 16.20 INV IN = 9.90(W) INV OUT = 9.90(S)
S3 CURB INLET	RIM = 15.20 INV IN = 9.50(N) INV OUT = 9.00(E)
S4 CURB INLET	RIM = 15.20 INV IN = 8.95(W) INV OUT = 8.95(E)
S5 24" MES	INV IN = 8.80(W)
S6 CURB INLET	RIM = 16.45 INV IN = 12.05(W) INV OUT = 12.05(N)
S6A CURB INLET	RIM = 16.10 INV OUT = 12.15(E)
S7 TYPE E INLET	RIM = 17.00 INV OUT = 12.00(E)
S8 TYPE E INLET	RIM = 17.00 INV OUT = 11.50(W)
S9 MANHOLE	RIM = 17.30 INV IN = 11.70(S) INV IN = 11.40(E) INV IN = 11.85(W) INV OUT = 11.00(N)
S10 MANHOLE	RIM = 17.40 INV IN = 10.70(S) INV OUT = 10.70(N)
S11 TYPE E INLET	RIM = 17.90 INV OUT = 12.90(SE)
S12 TYPE E INLET	RIM = 17.90 INV OUT = 11.90(NW)
S13 MANHOLE	RIM = 18.00 INV IN = 10.15(SW) INV IN = 12.70(NW) INV IN = 11.75(SE) INV OUT = 9.85(N)
S44 CONTROL STRUCTURE	SEE SHEET C13
S45 24" HEADWALL	INV IN = 12.50(W)

Pipe Table				
Pipe Name	Size	TYPE	Length	Slope
S1 TYPE E INLET-S2 MANHOLE	18"	PP	24'	0.41%
S2 MANHOLE-S3 CURB INLET	18"	PP	52'	0.77%
S3 CURB INLET-S4 CURB INLET	18"	PP	26'	0.19%
S4 CURB INLET-S5 24" MES	18"	PP	52'	0.29%
S6 CURB INLET-S9 MANHOLE	15"	PP	102'	0.34%
S6A CURB INLET-S6 CURB INLET	15"	PP	26'	0.39%
S7 TYPE E INLET-S9 MANHOLE	18"	PP	56'	0.27%
S8 TYPE E INLET-S9 MANHOLE	15"	PP	24'	0.41%
S9 MANHOLE-S10 MANHOLE	24"	PP	115'	0.26%
S10 MANHOLE-S13 MANHOLE	24"	PP	203'	0.27%
S11 TYPE E INLET-S13 MANHOLE	15"	PP	45'	0.44%
S12 TYPE E INLET-S13 MANHOLE	18"	PP	35'	0.43%
S44 CONTROL STRUCTURE-S45 24" HEADWALL	24"	RCP	36'	0.27%



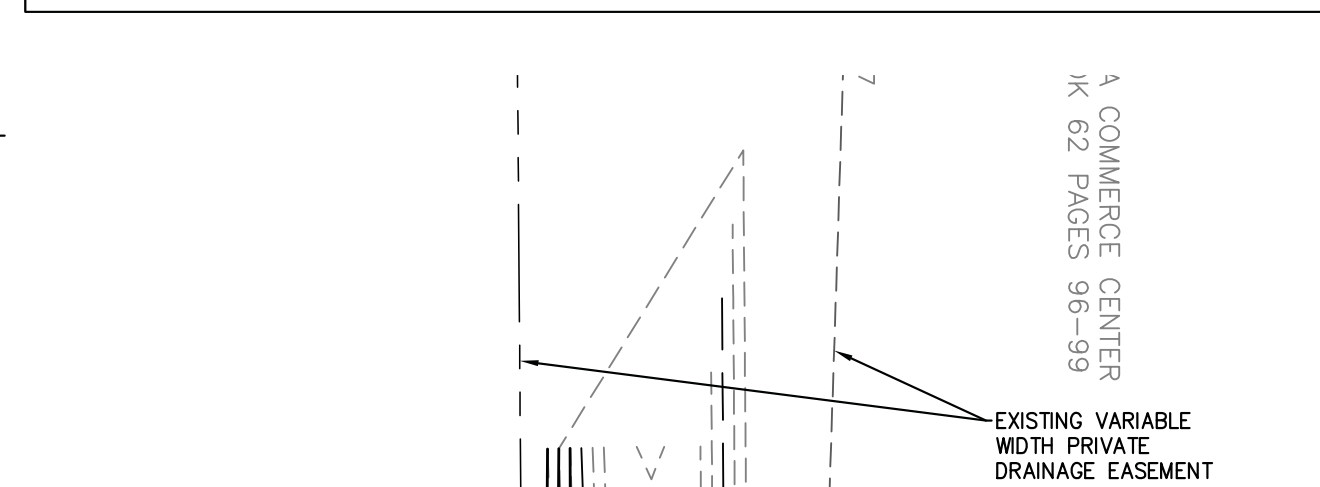
FENNEL COMMERCIAL DEVELOPMENT
FOR
RCBF PROPERTIES, LLC
PAVING AND DRAINAGE PLAN

REVISIONS

PLOT DATE:
DRAWN BY: JMM
DESIGNED BY: CN
CHECKED BY: WES
SCALE: AS NOTED
JOB NO: 2154.003
© LATEST DATE HEREON
SHEET NO.

C5

OF XX




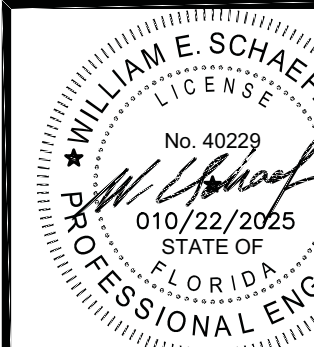
S24 TYPE E INLET	RIM = 12.50 INV OUT = 7.10(SE)
S25 CURB INLET	RIM = 15.00 INV IN = 5.35(N) INV IN = 11.15(SE) INV OUT = 4.85(SW)
S26 MANHOLE	RIM = 17.20 INV IN = 4.30(NE) INV IN = 6.60(E) INV OUT = 3.40(W)
S27 TYPE E INLET	RIM = 13.50 INV OUT = 8.50(S)
S28 TYPE E INLET	RIM = 13.50 INV OUT = 8.50(N)
S29 MANHOLE	RIM = 14.30 INV IN = 3.10(E) INV IN = 8.40(N) INV IN = 8.40(S) INV OUT = 3.10(W)
S35 MANHOLE	RIM = 14.00 INV IN = 2.75(W) INV OUT = 2.75(N)
S36 30" MES	INV IN = 2.50(S)
S37 CURB INLET	RIM = 7.60 INV IN = 2.50(W) INV OUT = 0.90(E)
S38 CURB INLET	RIM = 7.60 INV IN = 2.57(W) INV OUT = 2.57(E)

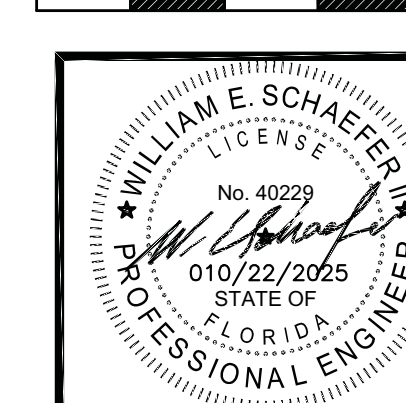
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6. RETAINING WALLS WILL BE OWNED AND MAINTAINED BY PROPER OWNERS (NOT THE CITY OF JACKSONVILLE)

TYPE	Length	Slope
RCP	26'	0.27%
RCP	17'	0.30%
RCP	71'	0.28%





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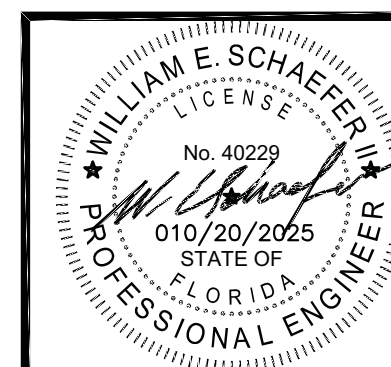
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Pipe Table				
Pipe Name	Size	TYPE	Length	Slope
S29 MANHOLE-S30 MANHOLE	36"	PP	220'	0.18%
S30 MANHOLE-S31 MANHOLE	36"	PP	79'	0.19%
S31 MANHOLE-S32 36" MES	36"	PP	31'	0.16%
S33 CONTROL STRUCTURE-S34 MANHOLE	30"	RCP	34'	0.15%
S34 MANHOLE-S35 MANHOLE	30"	RCP	363'	0.11%

SITE BOUNDARY	
EXISTING PAVEMENT	
PROPOSED PAVEMENT	
EXISTING SPOT ELEVATION	
PROPOSED ROAD ELEVATION	
EXISTING ELEVATION	
PROPOSED ELEVATION	
TOP OF WALL	
BOTTOM OF WALL	
STATE JURISDICTIONAL WETLAND LINE	
MAJOR DRAINAGE DIVIDE	
MINOR DRAINAGE DIVIDE	
PROPOSED SWALE CENTERLINE	
PROPOSED TOP OF BANK	
PROPOSED LOW MAINTENANCE ZONE	
EXISTING DRAINAGE FLOW	
PROPOSED DRAINAGE FLOW	
PROPOSED INLET	
PROPOSED INLET	
PUBLIC UNOBSTRUCTED DRAINAGE EASEMENT	
PUBLIC UNOBSTRUCTED DRAINAGE/ACCESS EASEMENT	
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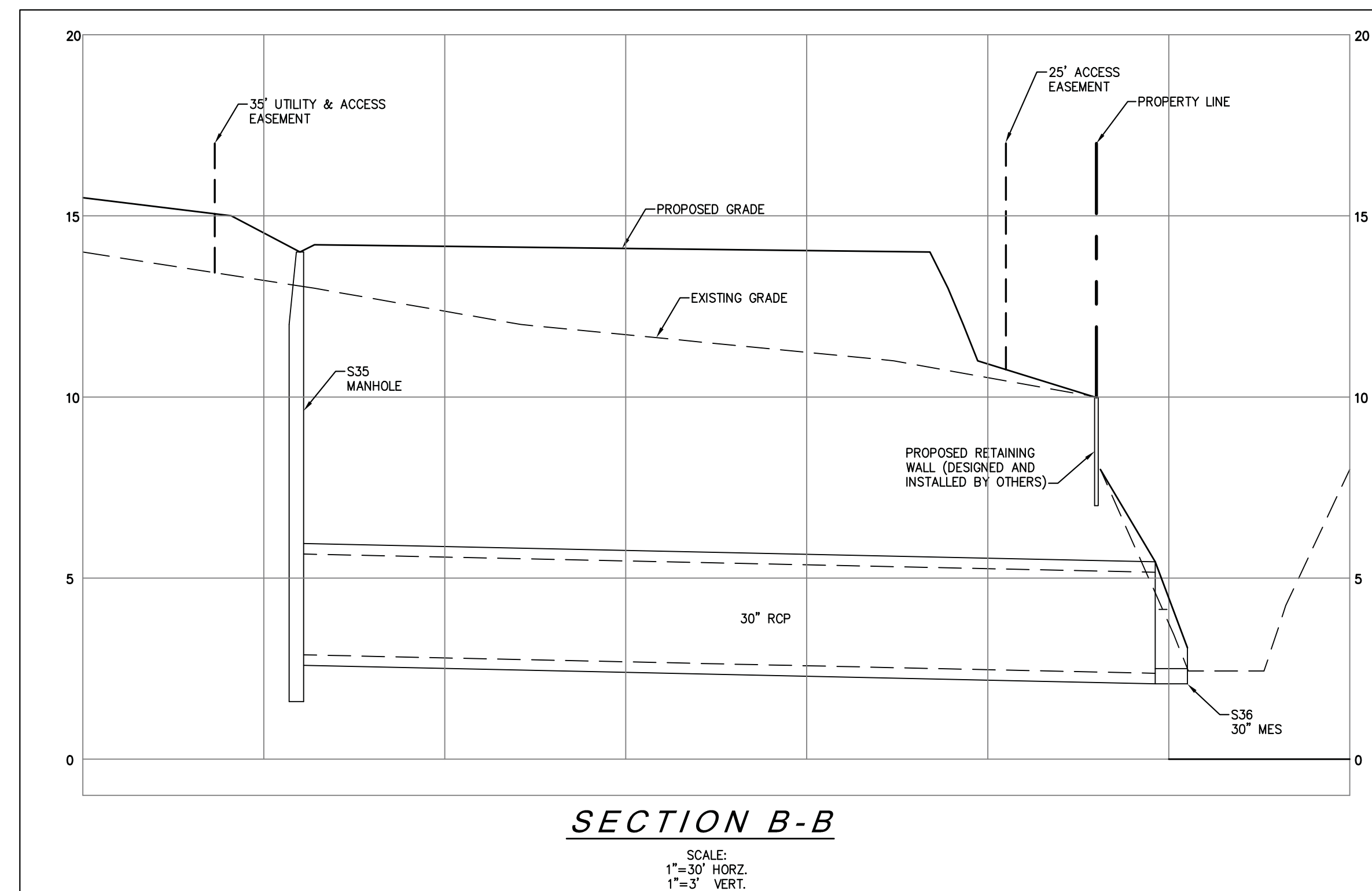
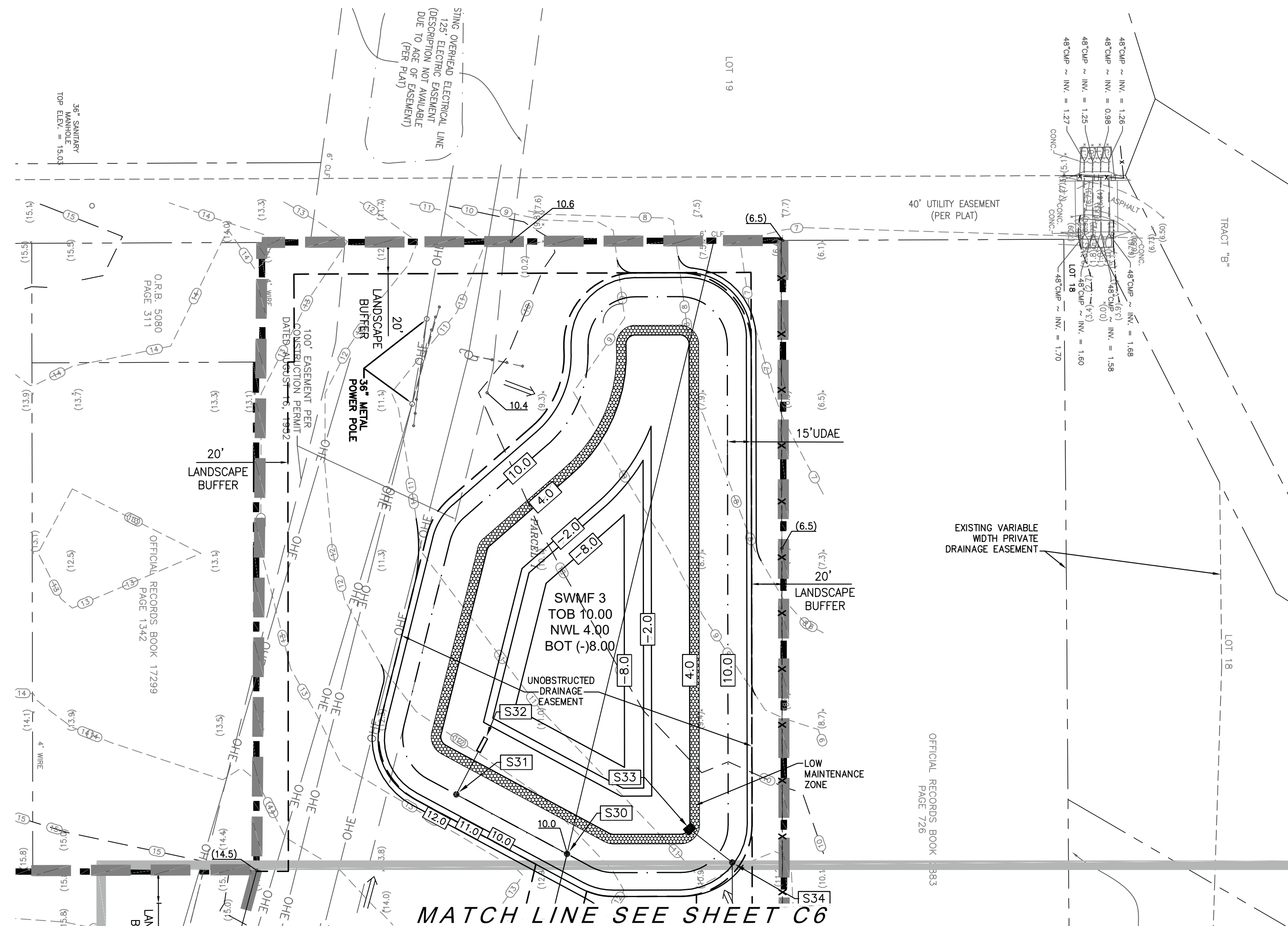


FENNELL COMMERCIAL DEVELOPMENT
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PAVING AND DRAINAGE PLAN

DOMINION ENGINEERING GROUP, INC.
PLANNERS AND ENGINEERS
4348 SOUTHPOINT BLVD, SUITE 201, JACKSONVILLE, FLORIDA 32216
TEL: 904-854-4500 REGISTRY NUMBER: 26821 FAX 904-854-4505
www.dom-eng.com

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© LATEST DATE HEREON SHEET NO.

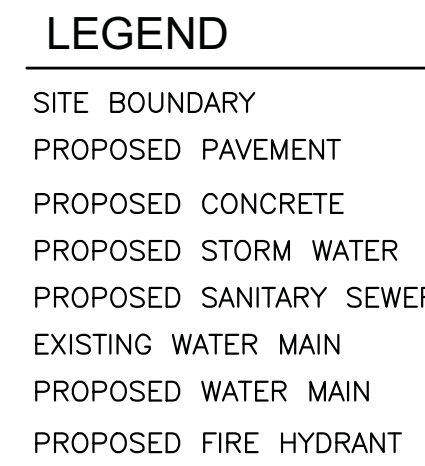
C7
OF XX



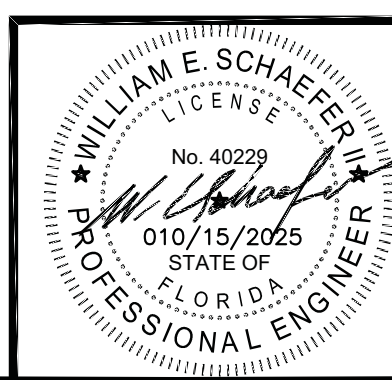
INDUSTRY NUMBER: 26821 FAX 904-854-4505
www.dom-eng.com

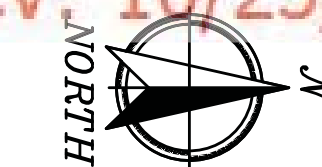
MASTER UTILITY PLAN

C8
OF XX

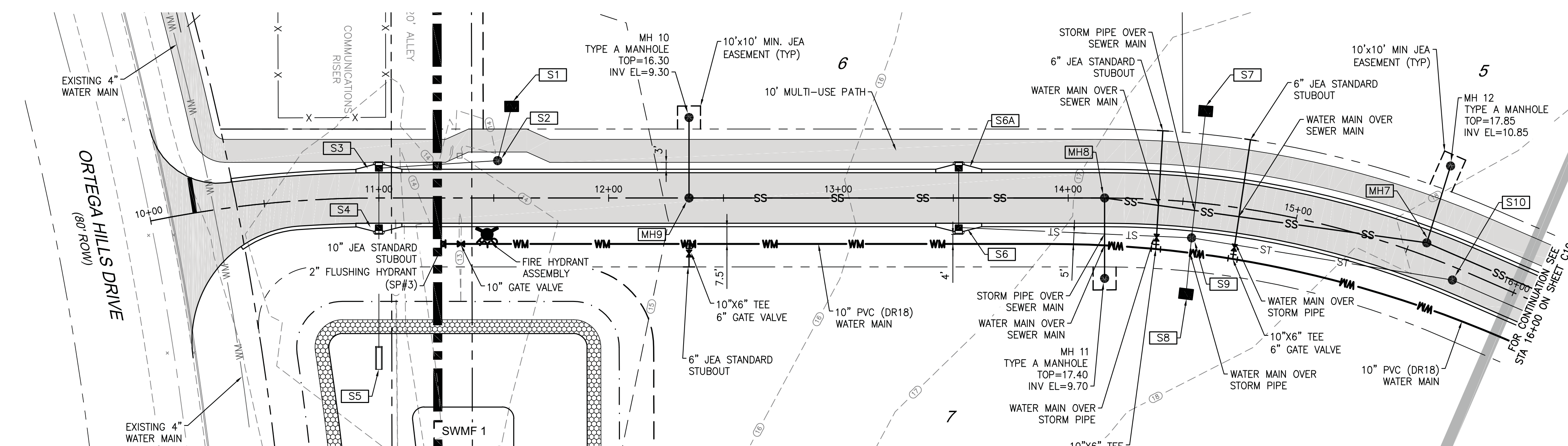


A number line is shown with markings at 0, 80, and 160. Below the number line, there is a 2x2 grid of squares. The top row consists of four squares: the first and third are shaded with diagonal lines, and the second and fourth are unshaded. The bottom row consists of four squares: the first and third are unshaded, and the second and fourth are shaded with diagonal lines.





NO PLANTING OF TREES
CLOSER THAN 10' FROM
ANY UTILITIES OR METERS



SEE SHEET C30 FDOT INDEX 602 & 603
MAINTENANCE OF TRAFFIC FOR
DRIVEWAYS AND UTILITY CONNECTION
ON ORTEGA HILLS DRIVE

GOLDEN WINGS ROAD SOUTH

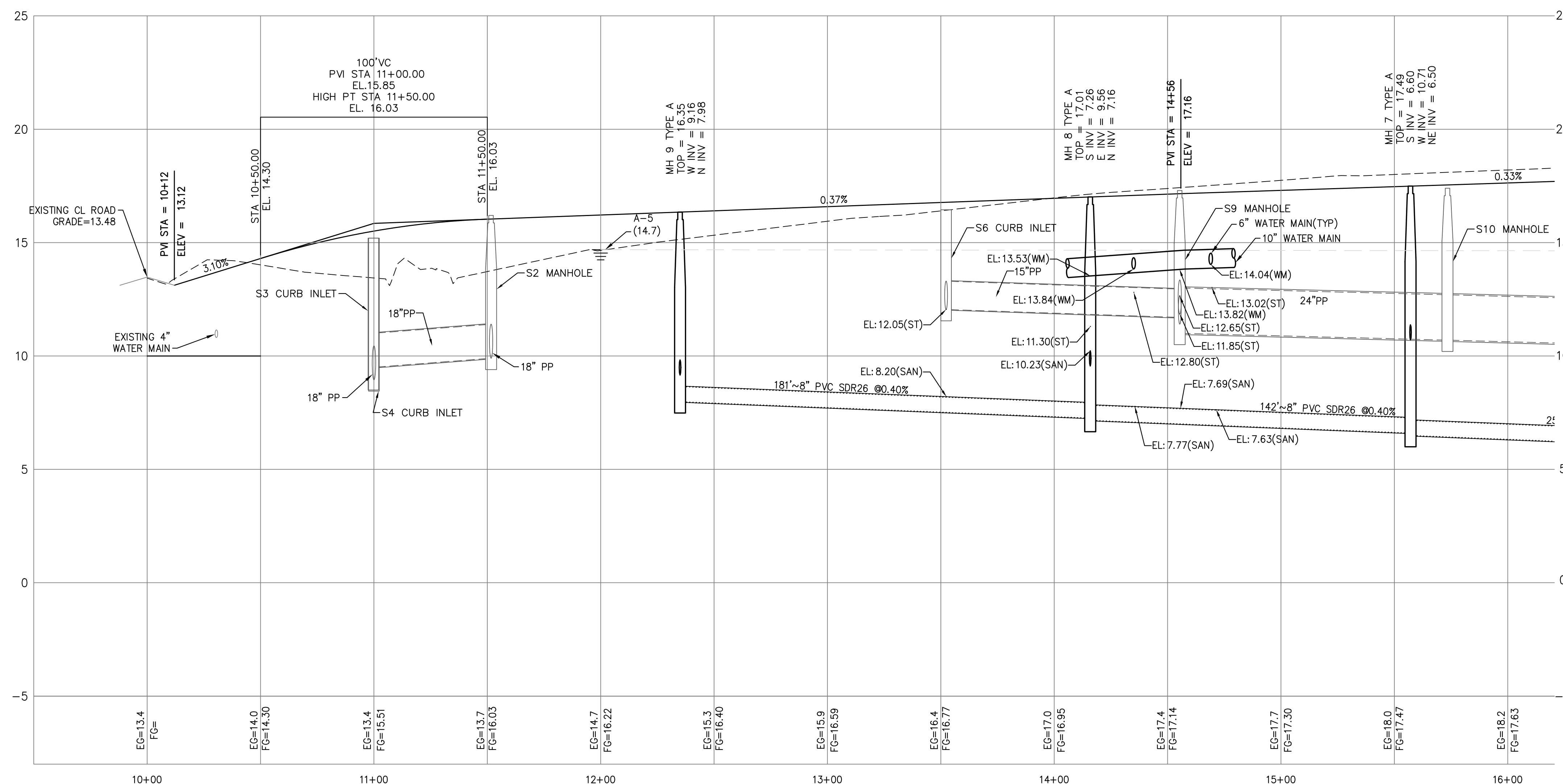
LEGEND

SITE BOUNDARY
PROPOSED PAVEMENT
PROPOSED CONCRETE
PROPOSED STORM WATER
PROPOSED SANITARY SEWER
EXISTING WATER MAIN
PROPOSED WATER MAIN
EXISTING FIRE HYDRANT
PROPOSED GATE VALVE
SAMPLE POINT

Diagram illustrating a 4-track tape configuration. The tracks are labeled ST, SS, WM, and WM. A stylized figure is positioned below the WM tracks, and the text "(SP#1)" is at the bottom.

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FENNELL COMMERCIAL DEVELOPMENT
FOR
RCBF PROPERTIES, LLC
PLAN AND PROFILE

DOMINION ENGINEERING GROUP, INC.

PLANNERS AND ENGINEERS

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REVISIONS

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SHEET NO.

C9
OF XX

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FOR
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PLAN AND PROFILE

REVISIONS

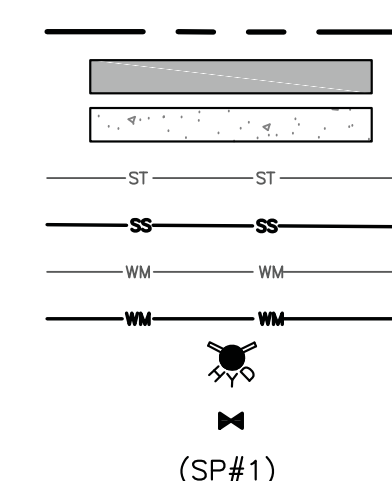
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SHEET NO.

C10
OF XX

NO PLANTING OF TREES
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ANY UTILITIES OR METERS

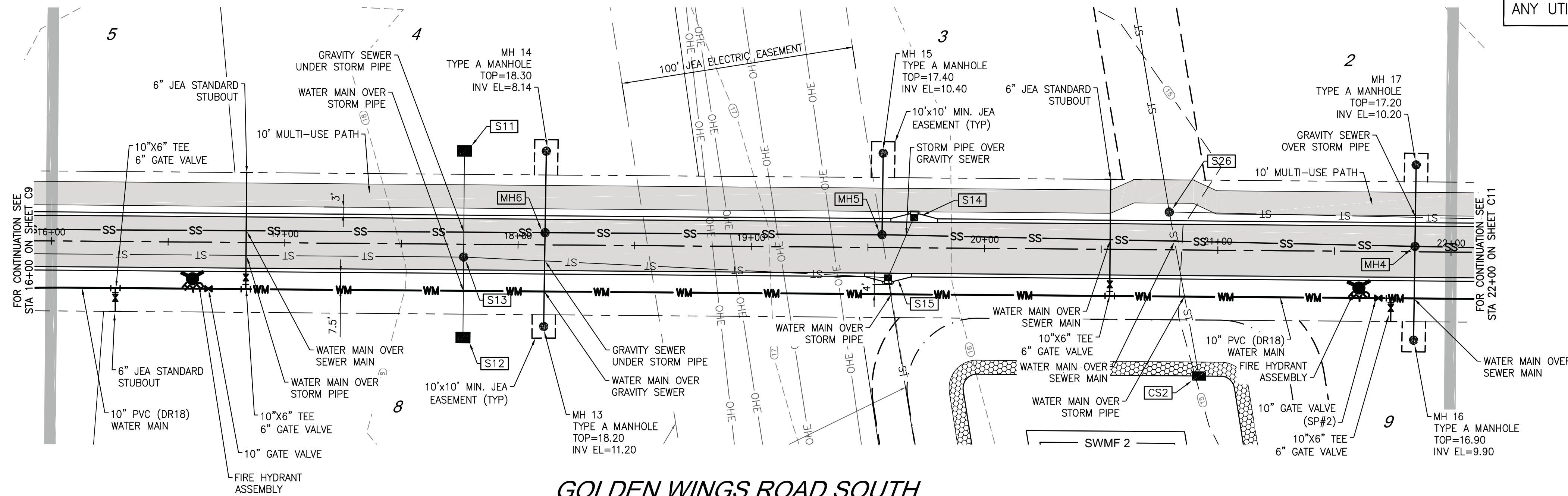
LEGEND

SITE BOUNDARY
PROPOSED PAVEMENT
PROPOSED CONCRETE
PROPOSED STORM WATER
PROPOSED SANITARY SEWER
EXISTING WATER MAIN
PROPOSED WATER MAIN
EXISTING FIRE HYDRANT
PROPOSED GATE VALVE
SAMPLE POINT

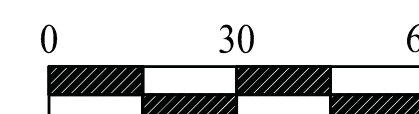
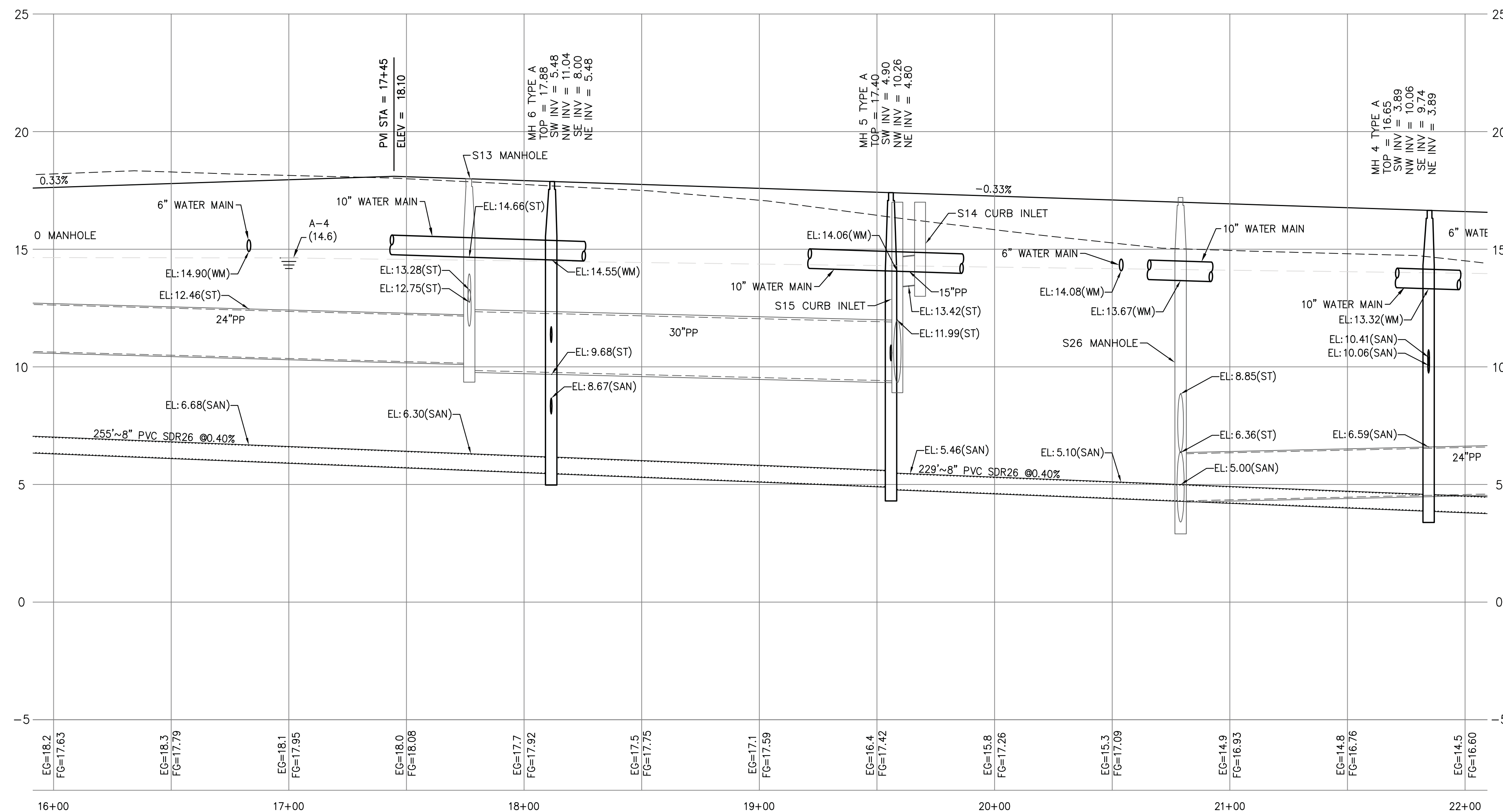


NOTES:

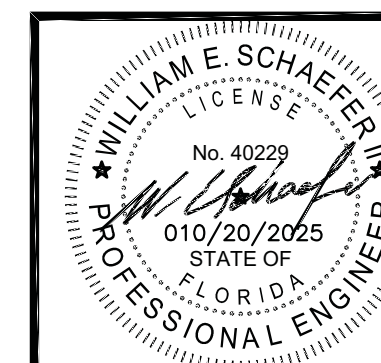
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GOLDEN WINGS ROAD SOUTH



SCALE: 1"=30' H
1"=3' V

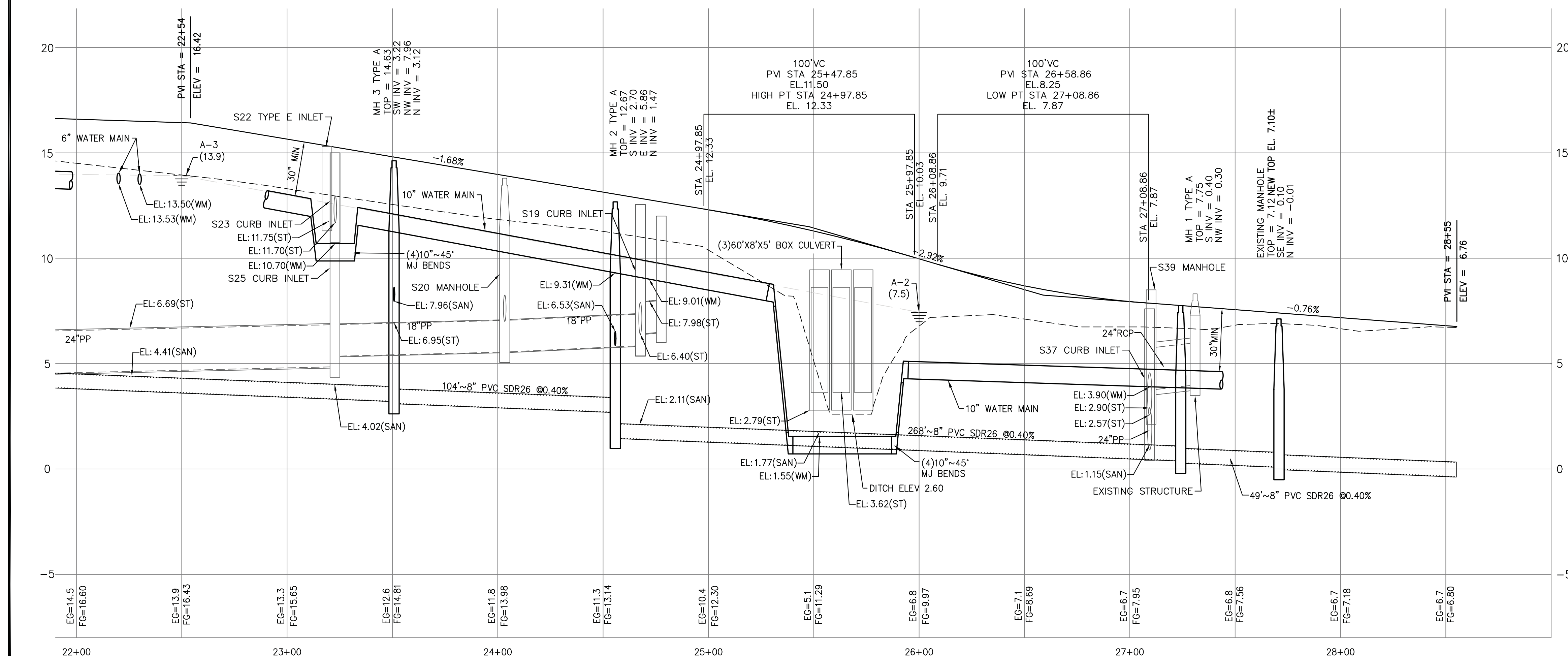


CONTRACTOR SHALL ABANDONED THE PORTION
OF THE EXISTING 4" WATER MAIN AS FROM THE
EXISTING 4" GATE VALVE TO THE END AND
TRANSFER ALL WATER SERVICES TO THE
PROPOSED 10" WATER MAIN (SEE
ABANDONMENT NOTES THIS SHEET)

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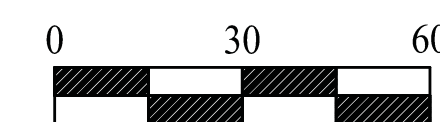
C11
OF XX

OF XX

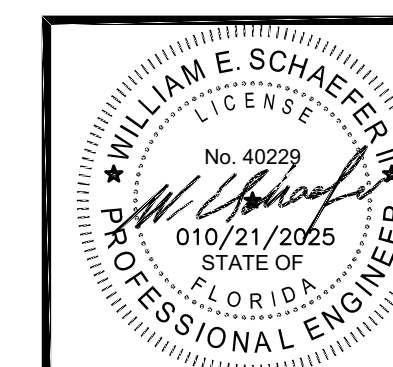


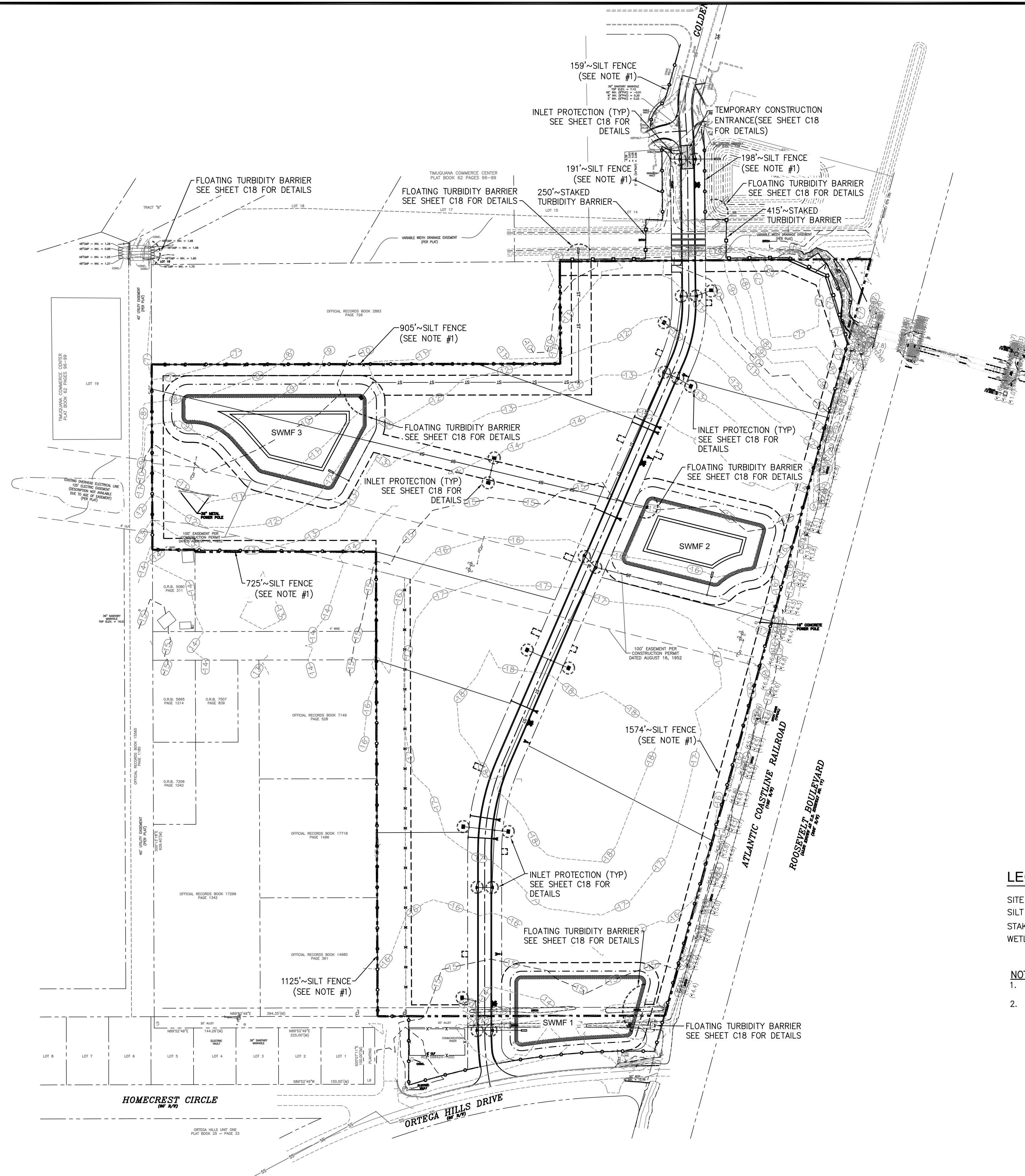
SITE BOUNDARY
PROPOSED PAVEMENT
PROPOSED CONCRETE
PROPOSED STORM WATER
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PROPOSED GATE VALVE
SAMPLE POINT

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SCALE: 1"=30' H
1"=3' V

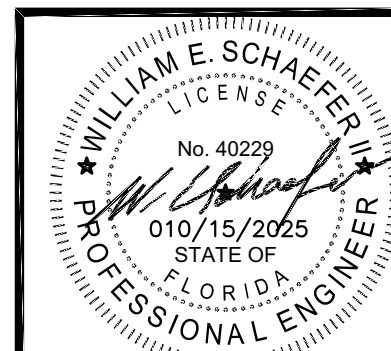
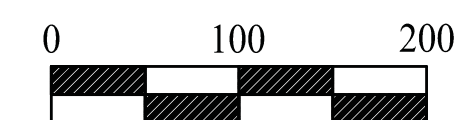




SITE BOUNDARY
SILT BARRIER
STAKED TURBIDITY BARRIER
WETLAND LINE

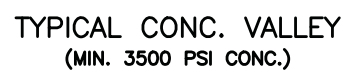
NOTE:

1. SILT FENCE SHALL BE INSTALLED AS SHOWN ON PLANS AND PRIOR TO ANY CLEARING.
2. IN AREAS WHERE SLOPES ARE 3:1 OR STEEPER, ENSURE TO PROVIDE THE SILT FENCE 1 LF OFF OF THE PROPERTY LINE.





EYE BOLT AND CHAIN FOR LOCKING GRATES TO INLETS
N.T.S.



THAT PORTION OF DRIVEWAY THAT EXTENDS INTO
PUBLIC R/W SHALL HAVE 1 1/4" ASPHALTIC
CONCRETE ON 6" LIMEROCK BASE/ 12"
STABILIZED SUBGRADE OR 12" LIMEROCK BASE
ON COMPACTED SUBGRADE.

COJ PLATE P-201

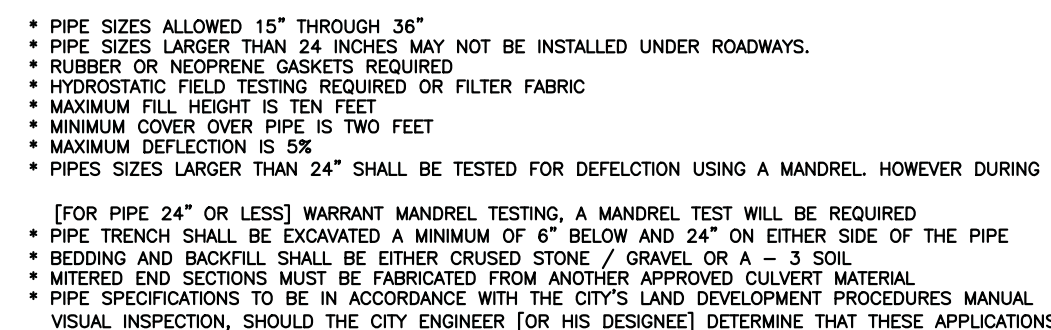


N.T.S.



COST OF FILTER FABRIC TO BE INCLUDED IN COST OF PIPE CULVERTS.

N.T.S.



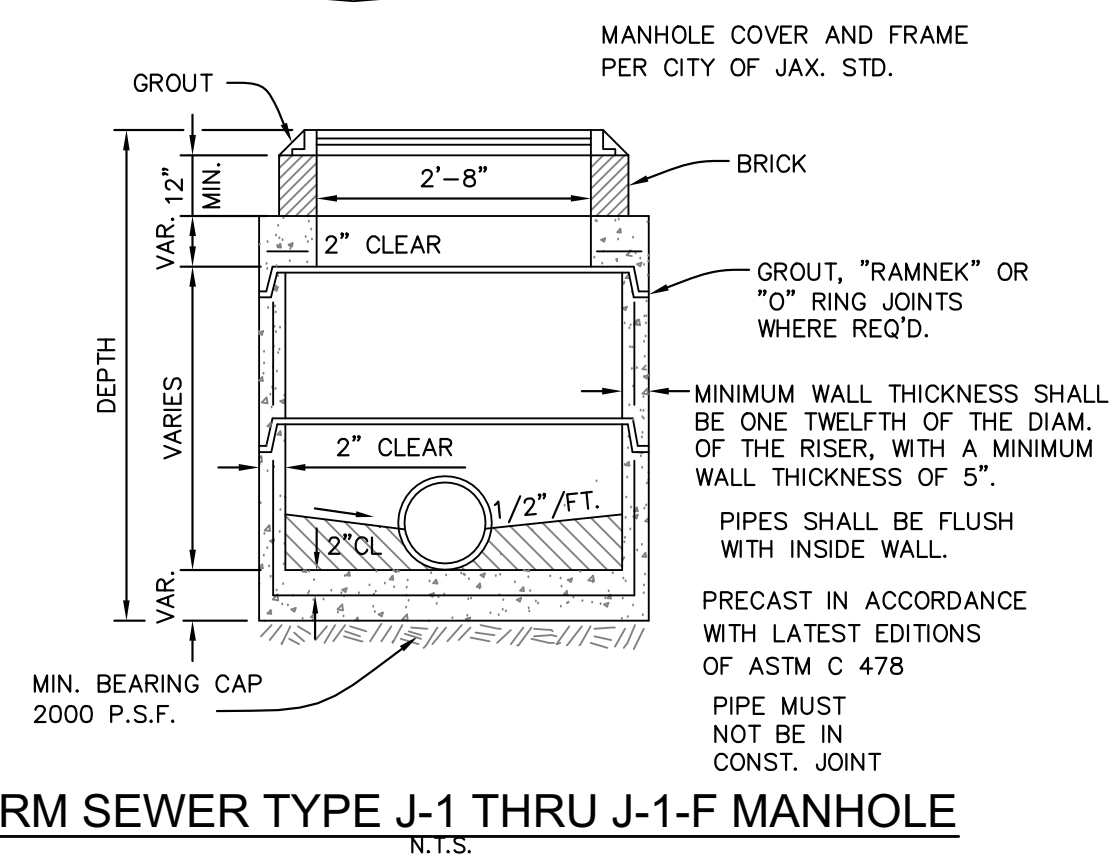
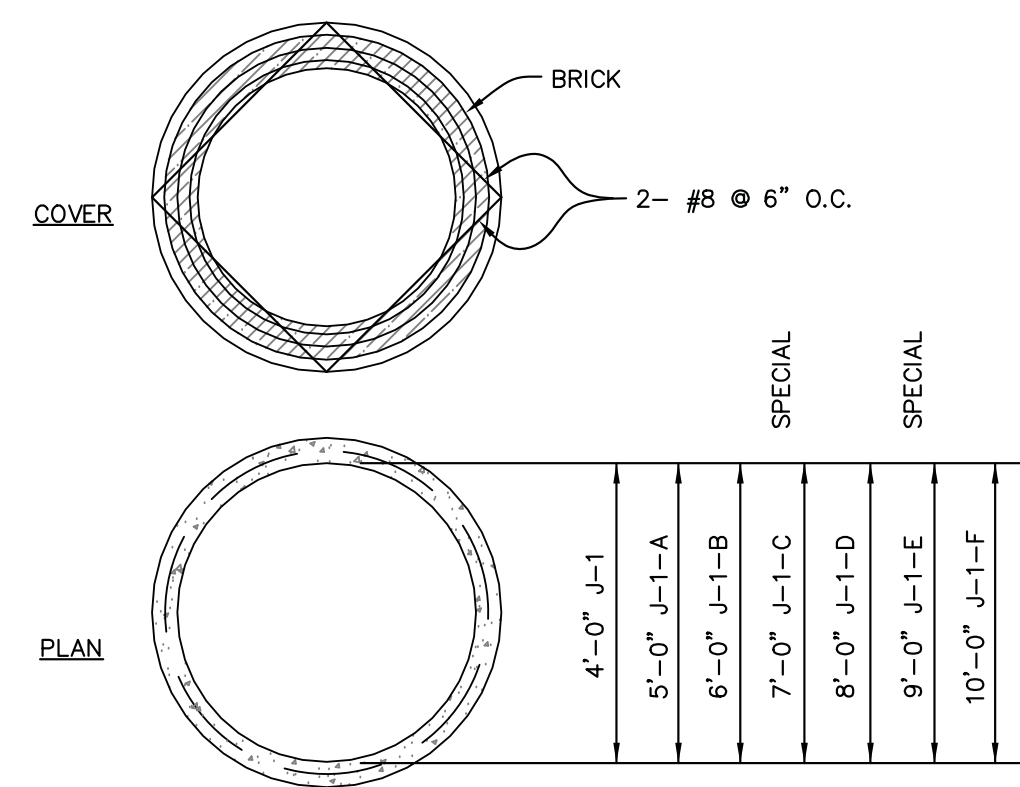
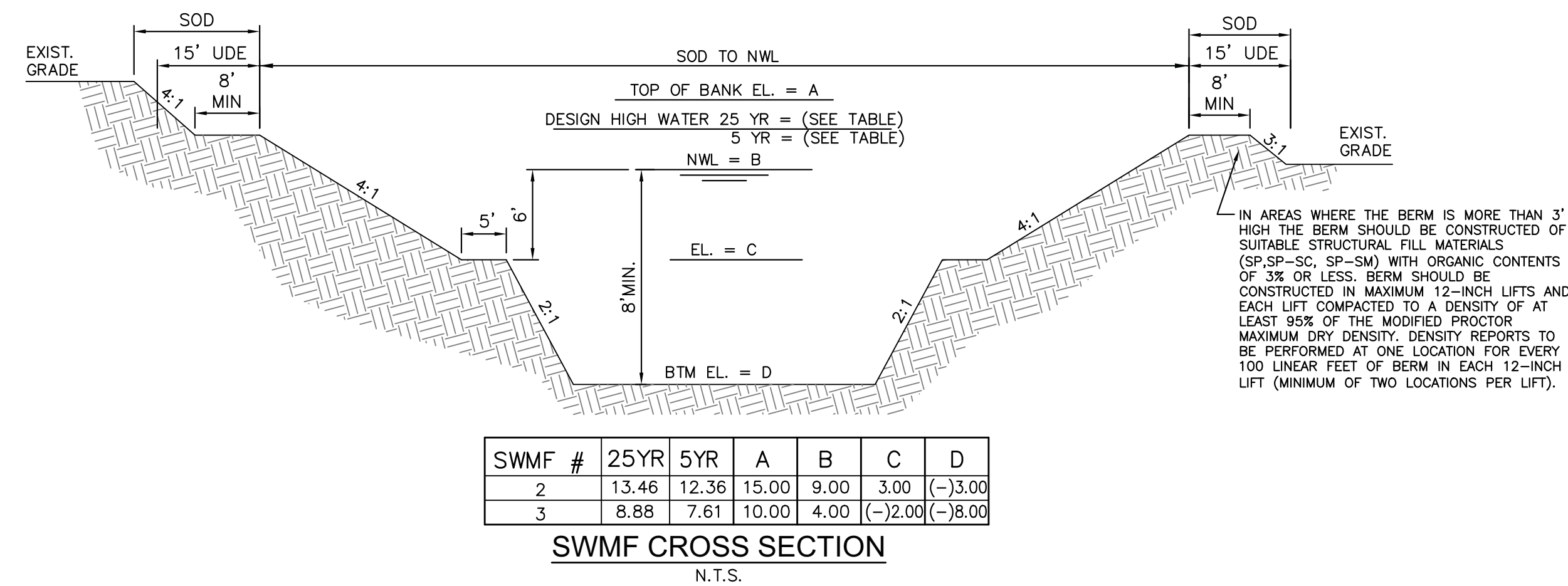
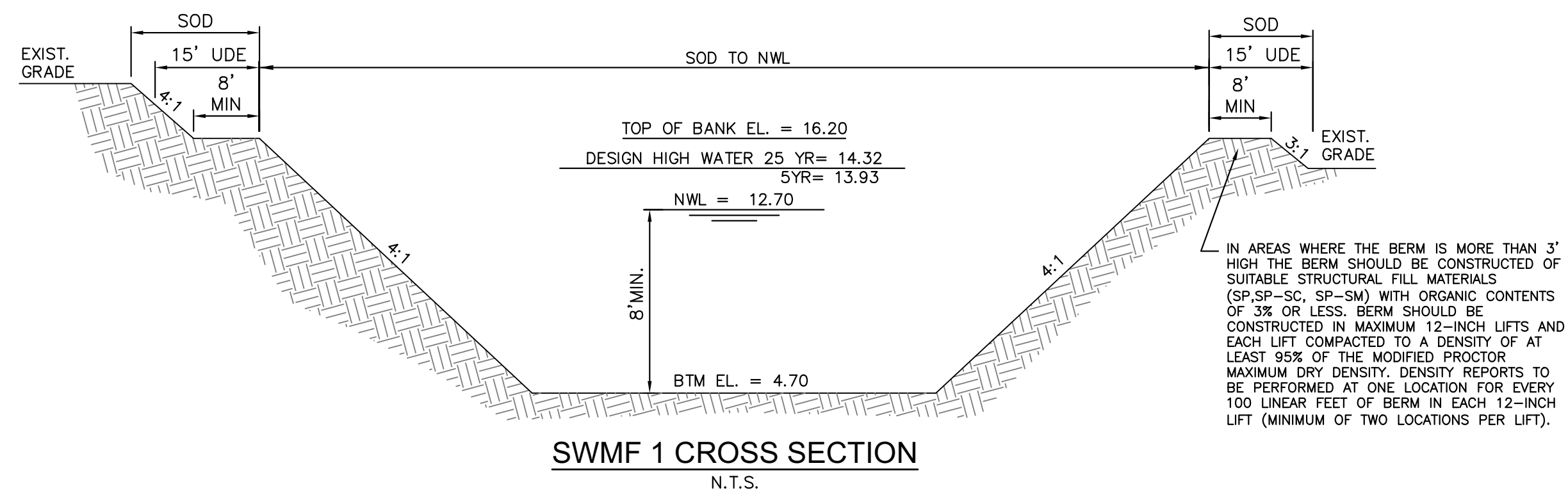
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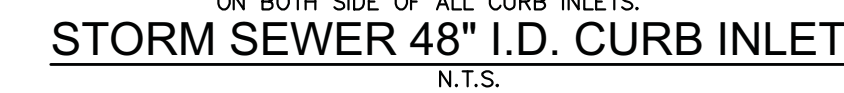
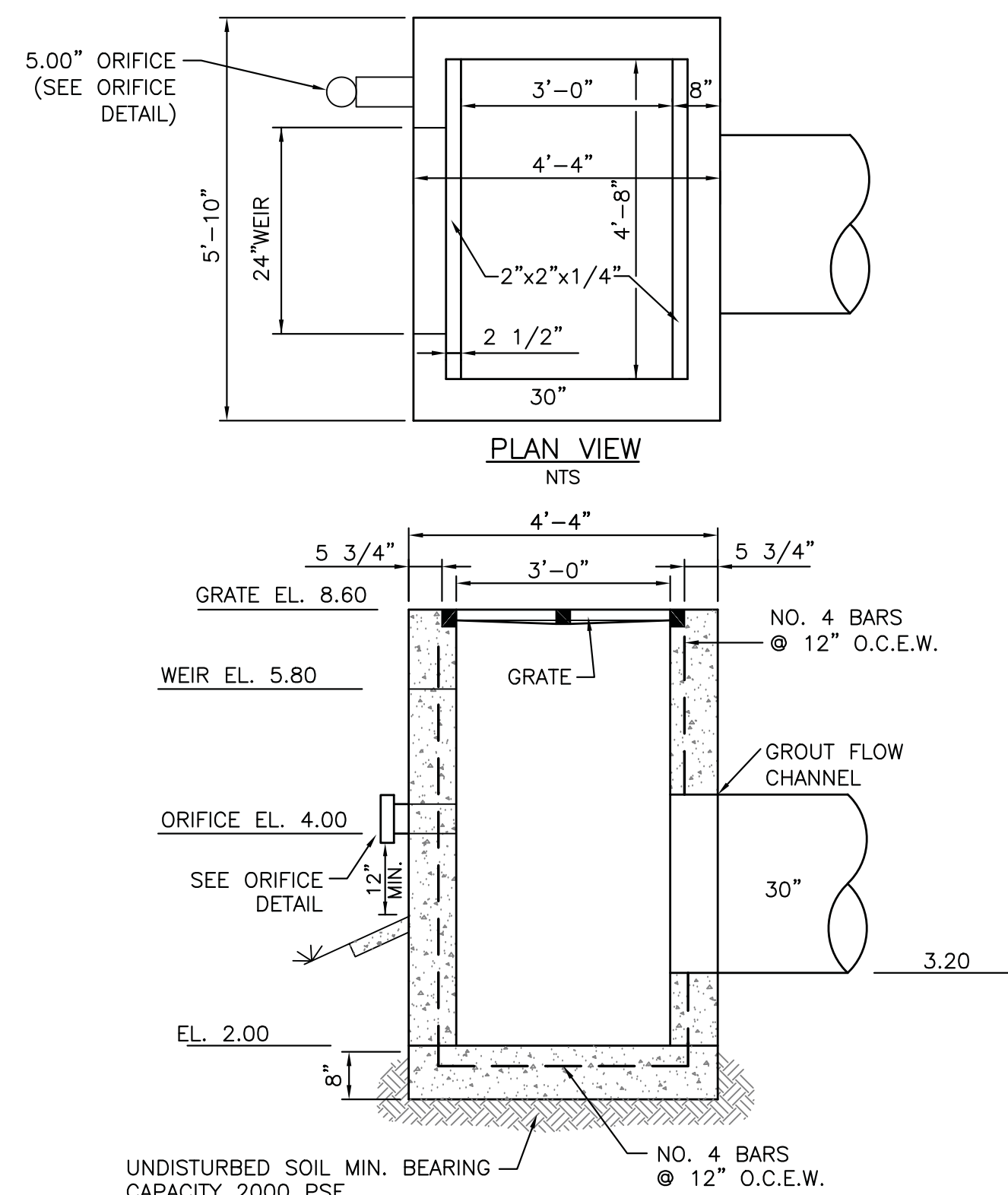
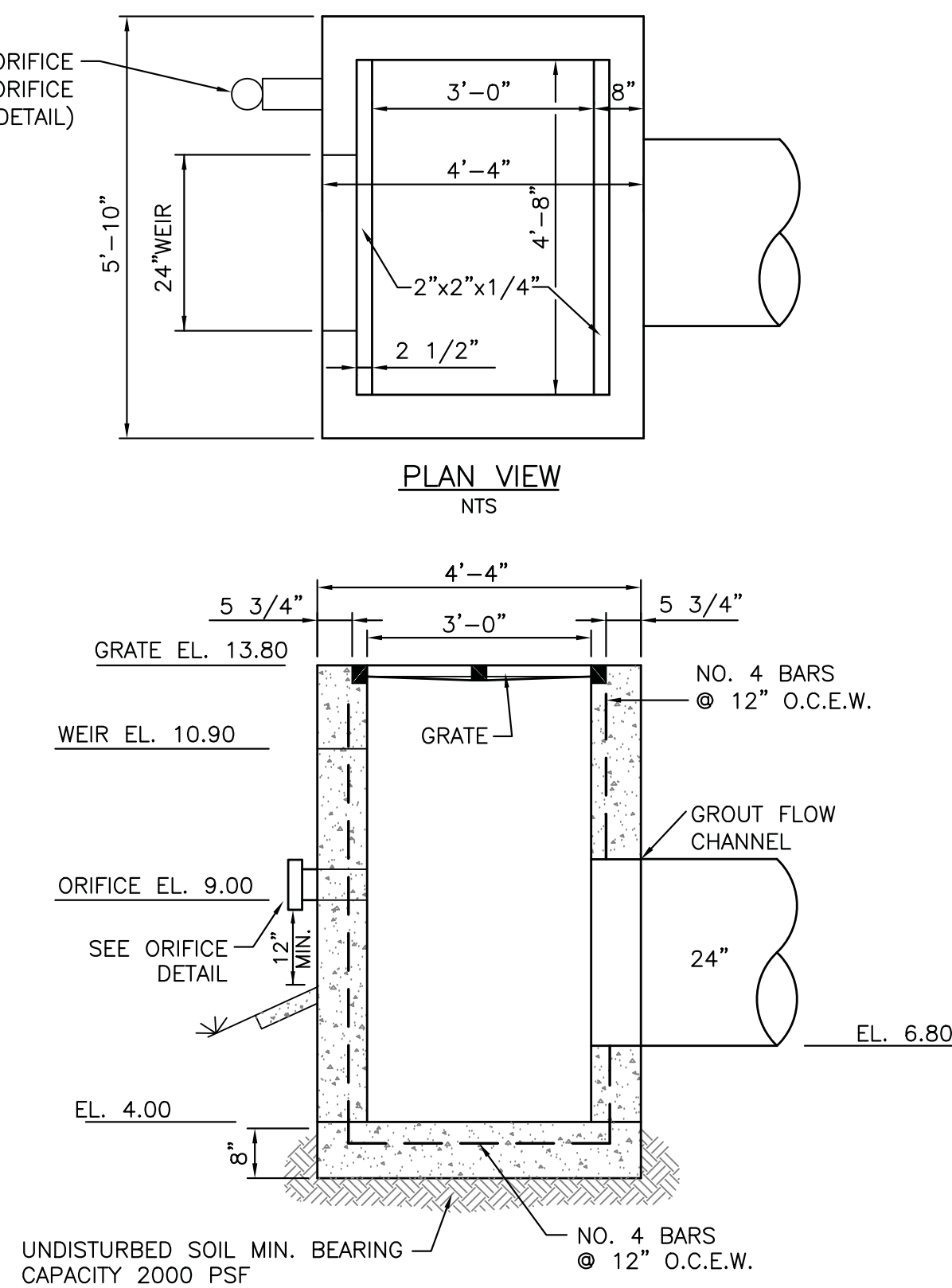
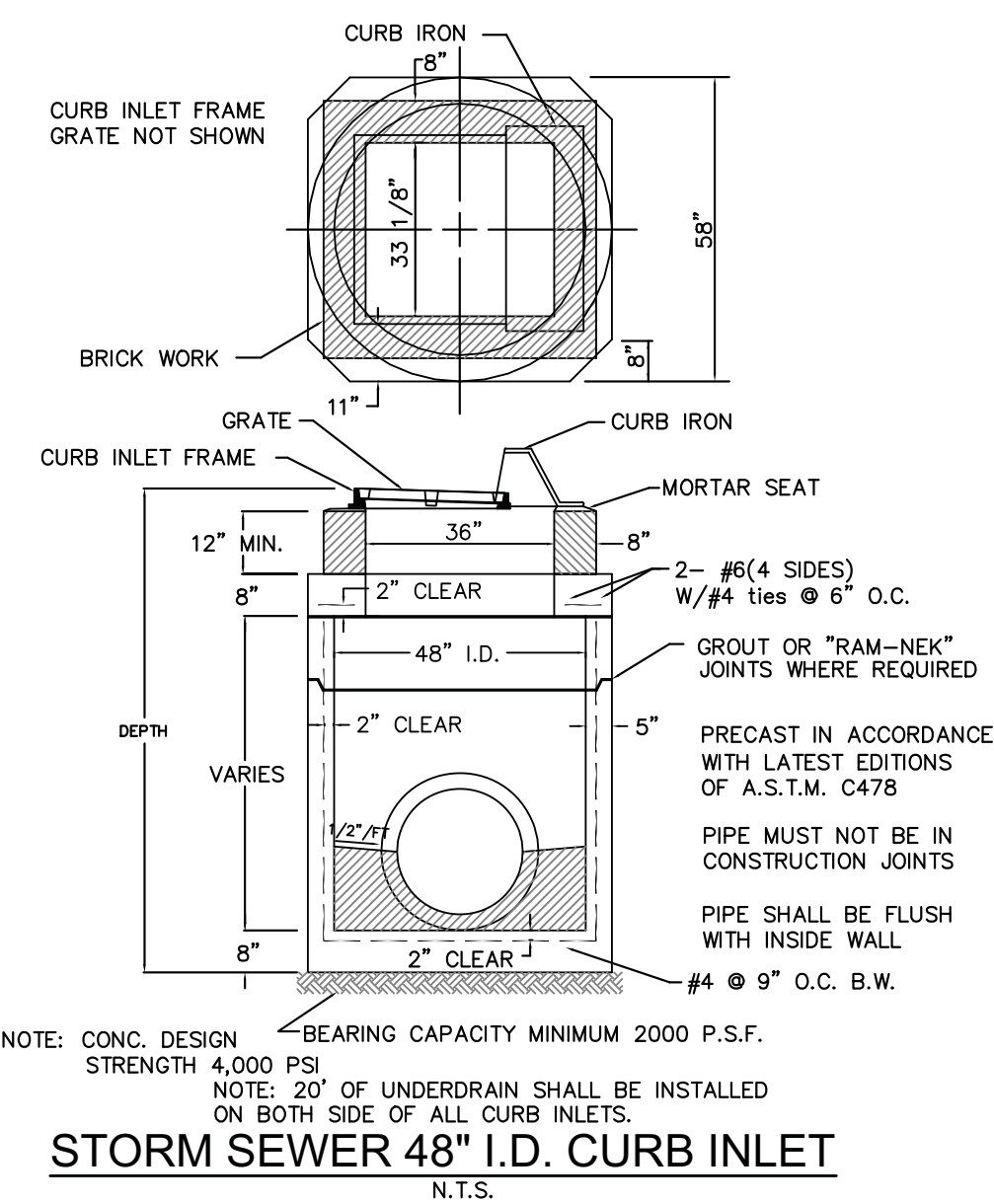
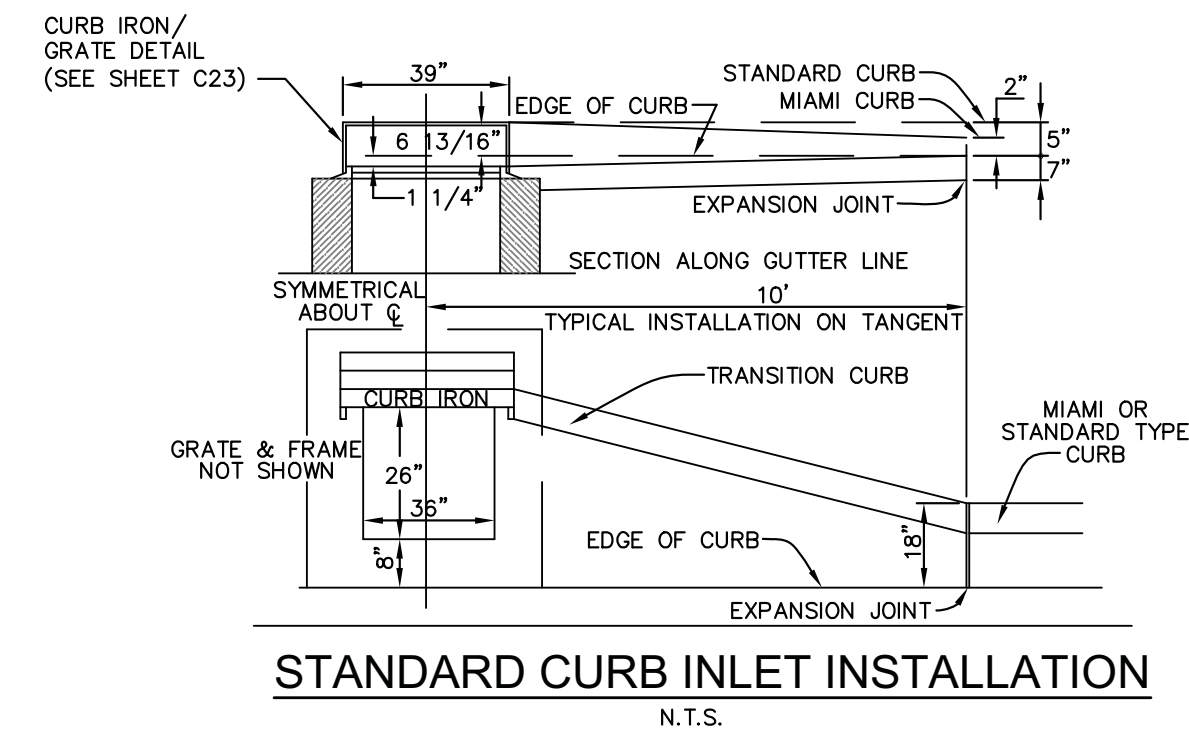
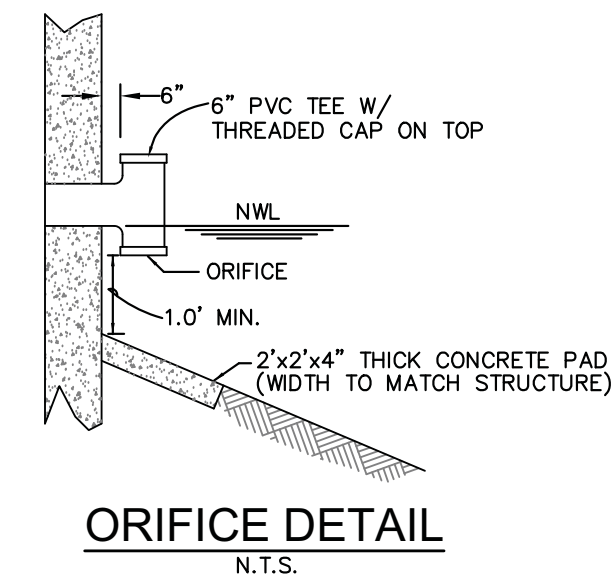
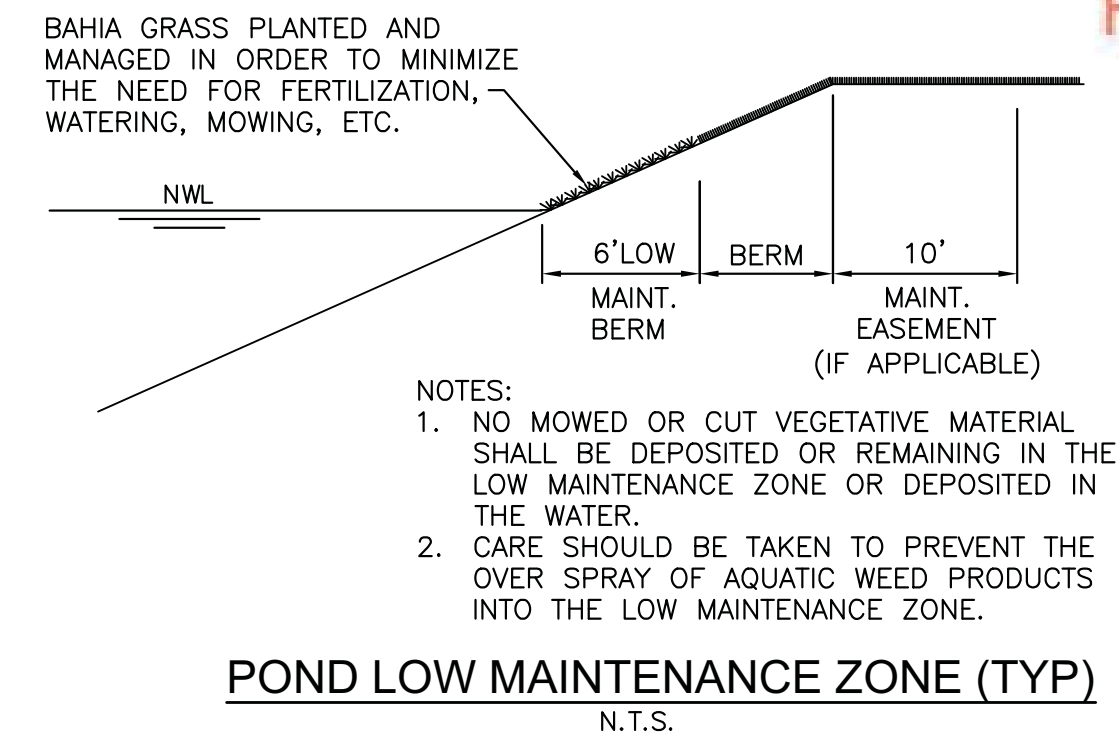
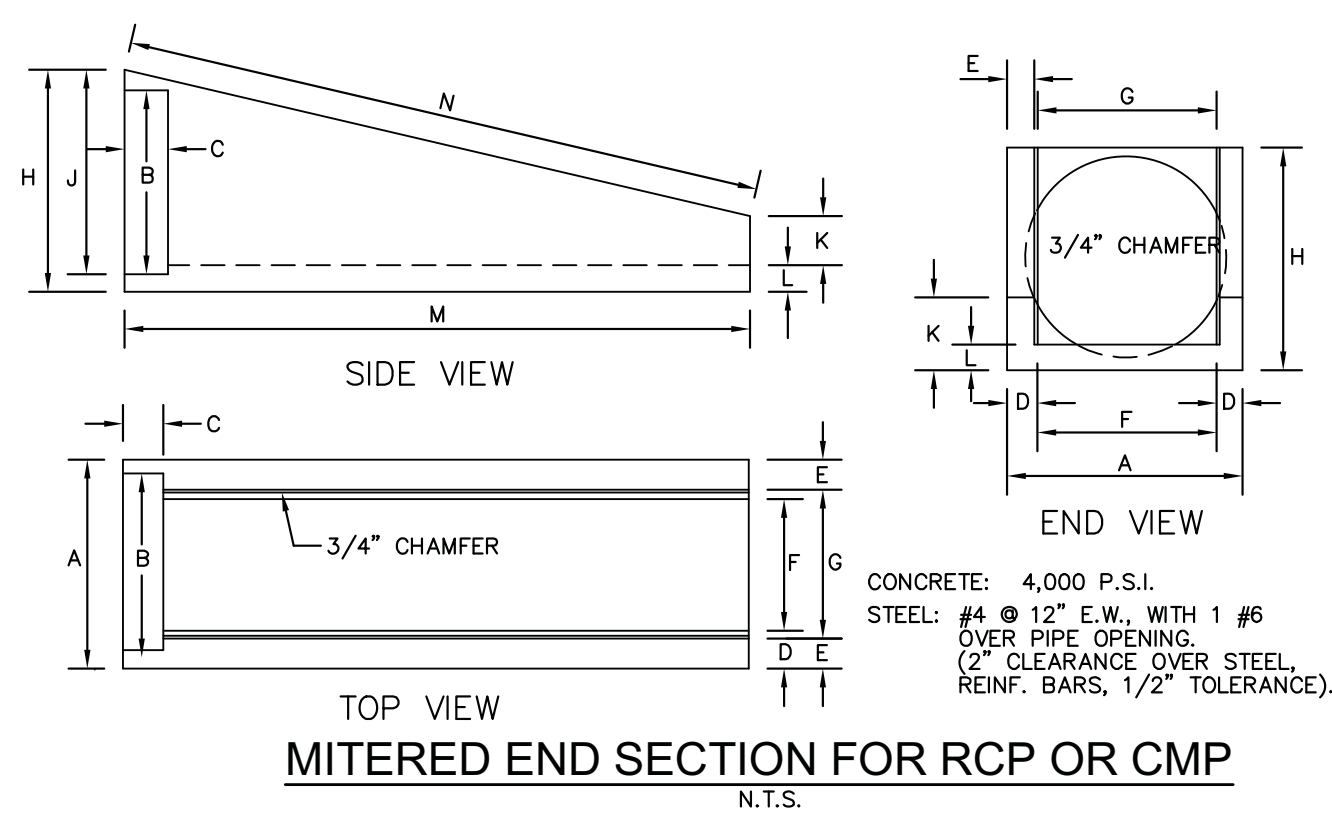
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SCALE:	AS NOTED
JOB NO.:	2154.003
© LATEST DATE HEREON	
SHEET NO.	

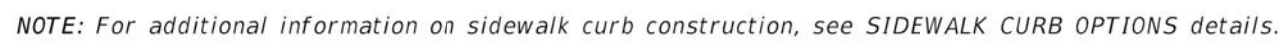
C13

OF XX



STORM SEWER TYPE J-1 THRU J-1-F MANHOLE
N.T.S.

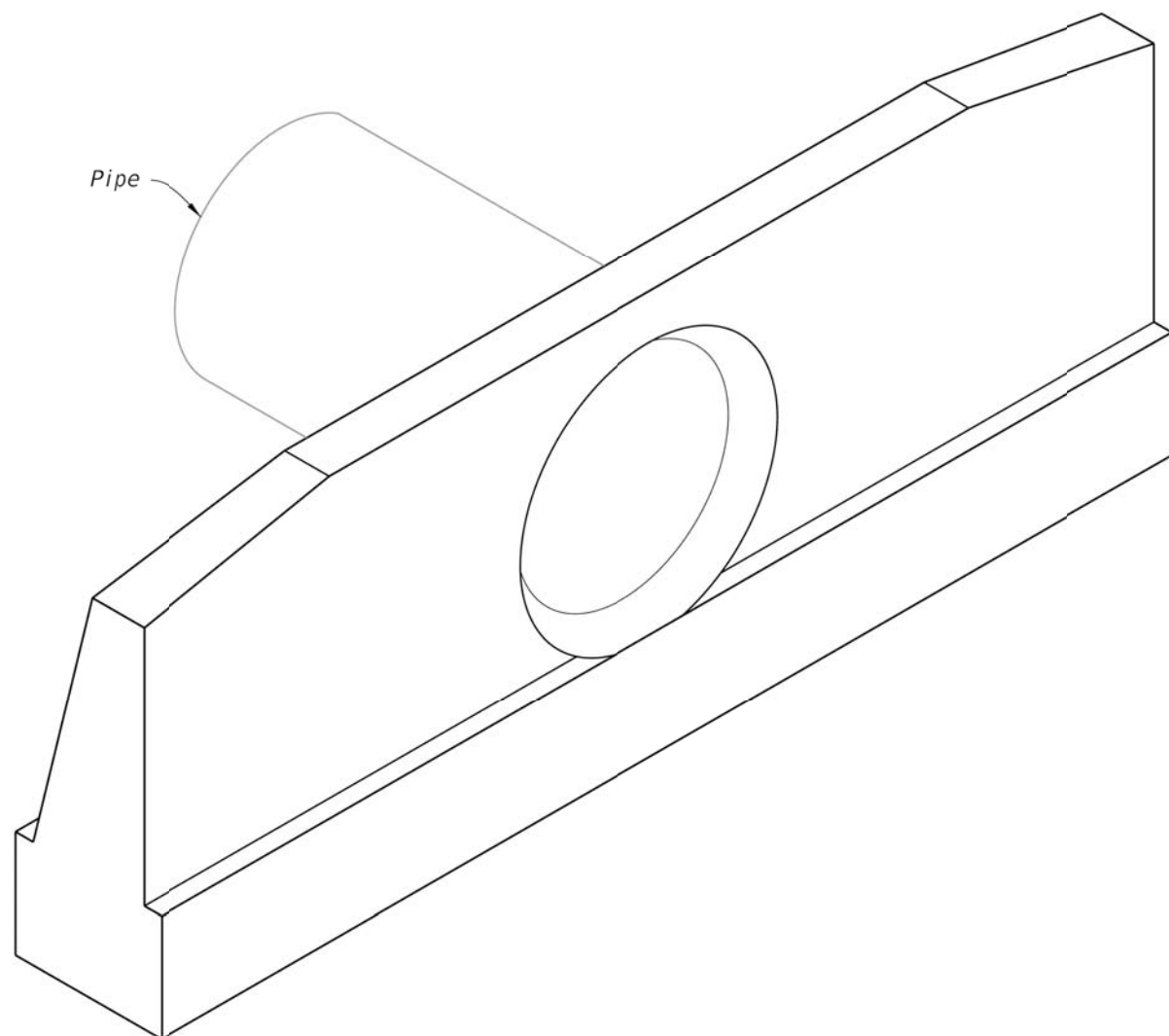




FDOT DETECTABLE WARNING AND SIDEWALK CURB RAMPS

ROUND CONCRETE AND CORRUGATED METAL PIPE																																		
Pipe Dia.	Opening Area (SF)				Dimensions												Class II Concrete (CY)												Dia. D					
	Number Of Pipes				A	B	C	E	F	G	Y	X	Number Of Pipe And Slew Angle Of Pipe (a)																					
	1	2	3	4									Single	Double				Triple				Quadruple												
Concrete	15"	1.23	2.46	3.69	4.92	1'-11"	1'-2"	4'-0"	1'-10"	1'-2"	0'-6"	2'-7"	2'-7"	2'-8"	3'-0"	45°	8"	1.23	1.59	1.60	1.65	1.74	1.94	1.96	2.05	2.23	2.30	2.34	2.47	2.74	15"			
	18"	1.17	2.34	3.51	4.68	1'-2"	4'-0"	1'-10"	1'-2"	0'-6"	2'-7"	2'-7"	2'-8"	3'-0"	45°	8"	1.17	1.56	1.99	2.01	2.06	2.17	2.43	2.46	2.56	2.73	2.86	2.91	3.06	3.40	18"			
	21"	2.41	4.82	7.23	9.64	2'-5"	1'-4"	5'-0"	2'-0"	1'-4"	1'-6"	3'-2"	3'-2"	3'-3"	3'-8"	4'-6"	1'-9"	2.24	2.82	2.84	2.91	3.06	3.39	3.43	3.57	3.78	3.89	4.01	4.24	4.69	21"			
	24"	3.14	6.28	9.42	12.56	2'-8"	1'-4"	5'-6"	2'-0"	1'-4"	2'-0"	3'-5"	3'-5"	3'-6"	3'-11"	4'-10"	1'-9"	2.27	2.82	2.84	2.91	3.06	3.39	3.43	3.57	3.78	3.89	4.01	4.24	4.69	24"			
	27"	3.98	7.96	11.94	15.92	2'-11"	1'-5"	6'-0"	2'-1"	1'-5"	2'-6"	3'-10"	3'-10"	4'-0"	4'-5"	5"	2.73	3.43	3.45	3.51	3.66	3.99	4.03	4.16	4.26	4.49	4.58	4.71	4.98	5.04	27"			
	30"	4.91	9.82	14.73	19.64	3'-2"	1'-6"	6'-6"	2'-1"	1'-6"	3'-11"	4'-11"	4'-11"	5'-0"	5'-11"	6'-2"	3.26	4.13	4.16	4.26	4.49	4.98	5.04	5.25	5.69	5.84	5.93	6.24	6.51	6.86	30"			
	36"	7.07	14.14	21.21	28.28	3'-8"	1'-8"	7'-6"	2'-4"	1'-8"	4'-0"	5'-1"	5'-1"	5'-3"	5'-10"	7'-2"	4.53	5.73	5.77	5.92	6.23	6.92	7.00	7.29	7.91	8.13	8.26	8.69	9.62	36"				
	42"	9.62	19.24	28.86	38.48	4'-2"	1'-10"	8'-6"	2'-6"	2'-0"	5'-0"	6'-0"	6'-0"	6'-3"	6'-11"	8'-6"	6.33	8.11	8.17	8.39	8.85	9.90	10.02	10.45	11.38	11.68	11.87	12.51	13.89	42"				
	48"	12.57	25.14	37.71	50.28	4'-8"	2'-1"	9'-6"	2'-9"	2'-0"	6'-0"	6'-9"	6'-9"	7'-0"	7'-10"	9'-7"	8.15	10.40	10.48	10.75	11.33	12.64	12.80	13.40	14.50	14.89	15.13	15.93	17.68	48"				
Corrugated Metal	15"	1.50	3.00	4.50	6.00	2'-0"	2'-6"	10'-6"	2'-8"	2'-3"	7'-0"	7'-8"	7'-8"	7'-11"	8'-10"	10'-1"	11.71	15.23	15.25	15.78	16.69	18.77	19.02	19.86	21.69	22.29	22.66	23.93	26.67	54"				
	18"	1.26	2.52	3.78	5.04	1'-11"	1'-2"	4'-0"	1'-10"	1'-2"	0'-6"	2'-7"	2'-7"	2'-8"	3'-0"	45°	8"	1.26	1.62	1.64	1.69	1.80	1.99	2.01	2.06	2.17	2.43	2.46	2.56	2.73	2.86	2.91	3.06	3.40
	21"	2.41	4.82	7.23	9.64	2'-5"	1'-4"	5'-0"	2'-0"	1'-4"	1'-6"	3'-2"	3'-2"	3'-3"	3'-8"	4'-6"	1'-9"	2.24	2.82	2.84	2.91	3.06	3.39	3.43	3.57	3.78	3.89	4.01	4.24	4.69	21"			
	24"	3.14	6.28	9.42	12.56	2'-8"	1'-4"	5'-6"	2'-0"	1'-4"	2'-0"	3'-5"	3'-5"	3'-6"	3'-11"	4'-10"	1'-9"	2.27	2.82	2.84	2.91	3.06	3.39	3.43	3.57	3.78	3.89	4.01	4.24	4.69	24"			
	27"	3.98	7.96	11.94	15.92	2'-11"	1'-5"	6'-0"	2'-1"	1'-5"	2'-6"	3'-10"	3'-10"	4'-0"	4'-5"	5"	2.73	3.43	3.45	3.51	3.66	3.99	4.03	4.16	4.26	4.49	4.58	4.71	4.98	5.04	27"			
	30"	4.91	9.82	14.73	19.64	3'-2"	1'-6"	6'-6"	2'-1"	1'-6"	3'-11"	4'-11"	4'-11"	5'-0"	5'-11"	6'-2"	3.26	4.13	4.16	4.26	4.49	4.98	5.04	5.25	5.69	5.84	5.93	6.24	6.51	6.86	30"			
	36"	7.07	14.14	21.21	28.28	3'-8"	1'-8"	7'-6"	2'-4"	1'-8"	4'-0"	5'-1"	5'-1"	5'-3"	5'-10"	7'-2"	4.53	5.73	5.77	5.92	6.23	6.92	7.00	7.29	7.91	8.13	8.26	8.69	9.62	36"				
	42"	9.62	19.24	28.86	38.48	4'-2"	1'-10"	8'-6"	2'-6"	2'-0"	5'-0"	6'-0"	6'-0"	6'-3"	6'-11"	8'-6"	6.33	8.11	8.17	8.39	8.85	9.90	10.02	10.45	11.38	11.68	11.87	12.51	13.89	42"				
	48"	12.57	25.14	37.71	50.28	4'-8"	2'-1"	9'-6"	2'-9"	2'-0"	6'-0"	6'-9"	6'-9"	7'-0"	7'-10"	9'-7"	8.15	10.40	10.48	10.75	11.33	12.64	12.80	13.40	14.50	14.89	15.13	15.93	17.68	48"				

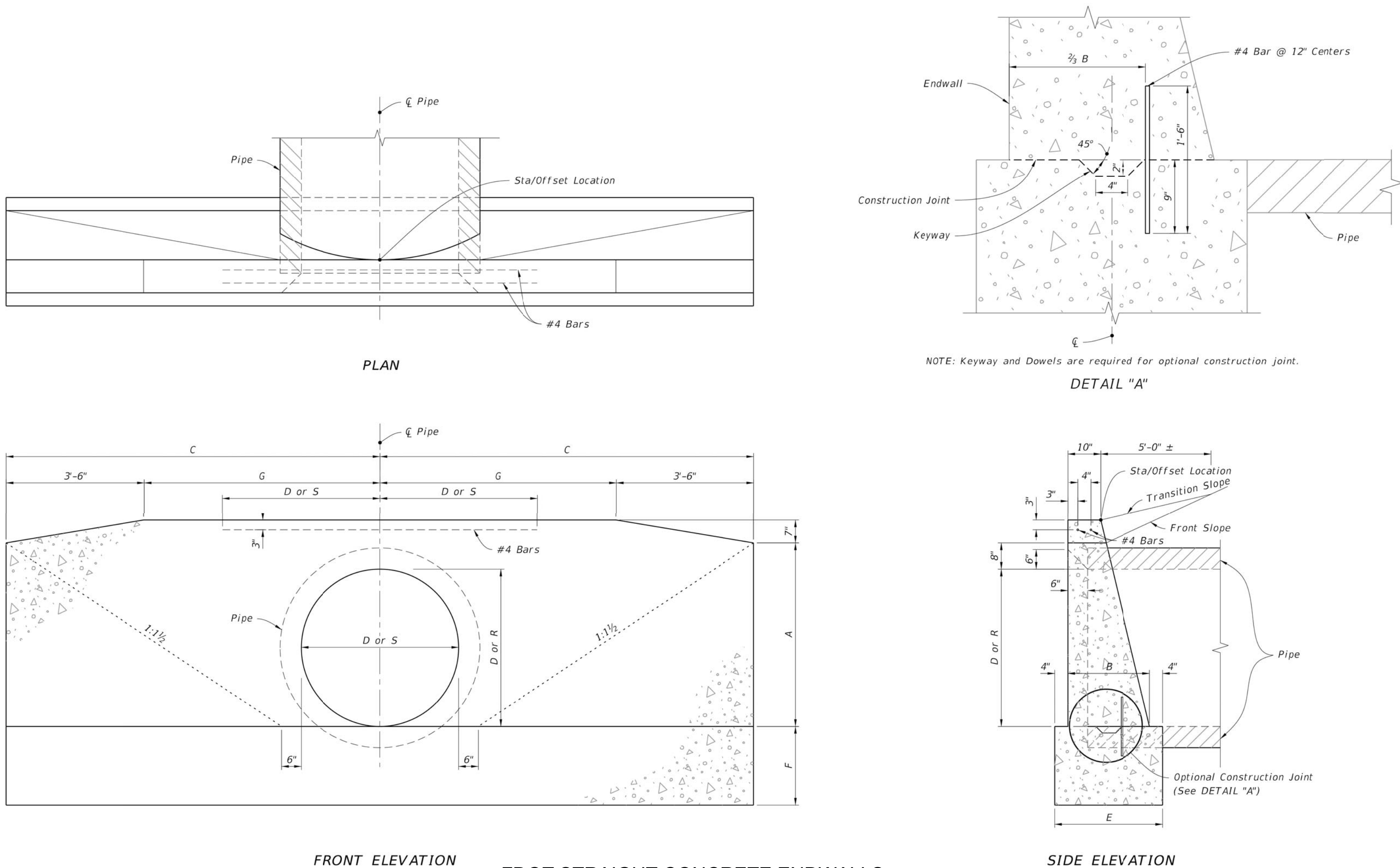
ELLIPTICAL CONCRETE AND CORRUGATED METAL PIPE ARCH																																																																																							
Span S	Opening Area (SF)				Dimensions																Class II Concrete (CY)																Rise R	Span S	Approx. Equiv. Round																																																
	Number Of Pipes																				Number Of Pipe And Slew Angle Of Pipe (α)																																																																		
																					Single																			Double																Triple																Quadruple															
	1	2	3	4	A	B	C	E	F	G	Y	X	0°	15°	30°	45°	0°	15°	30°	45°	0°	15°	30°	45°	0°	15°	30°	45°	0°	15°	30°	45°																																																							
18"	1	2.6	3.9	5.2	1'-8"	1'-2"	3'-9"	1'-10"	1'-2"	0'-3"	2'-10"	2'-10"	2'-11"	3'-3"	4'-4"	1.09	1.45	1.46	1.51	1.60	1.80	1.82	1.91	2.09	2.16	2.20	2.33	2.60	2.18	15"	15"																																																								
20"	1.8	2.6	3.9	5.2	1'-10"	1'-4"	4'-10"	1'-10"	1'-2"	0'-8"	2'-10"	2'-10"	2'-11"	3'-3"	4'-4"	1.09	1.45	1.46	1.51	1.60	1.80	1.82	1.91	2.09	2.16	2.20	2.33	2.60	2.18	15"	15"																																																								
24"	3	6.6	9.9	13.2	2'-3"	1'-4"	5'-10"	2'-4"	0'-2"	1'-4"	1'-7 1/2"	4'-2"	4'-2"	4'-4"	4'-10"	1.19	1.55	2.57	2.65	2.82	3.22	3.27	3.43	3.77	3.88	3.95	4.10	4.70	19"	30"	24"																																																								
38"	5.1	10.2	15.3	20.4	2'-8"	1'-5"	6'-3"	2'-11"	1'-5"	2'-9"	5'-2"	5'-2"	5'-4"	6'-0"	7'-4"	1.64	2.64	3.58	3.58	3.69	3.93	4.48	4.54	4.77	5.24	5.39	5.49	5.82	6.53	24"	38"	30"																																																							
45"	7.4	14.8	22.2	29.6	3'-1"	1'-6"	7'-0"	2'-2"	1'-6"	3'-6"	6'-0"	6'-0"	6'-3"	6'-11"	8'-6"	3.32	4.48	4.52	4.66	4.96	5.64	5.72	6.00	6.60	6.80	6.92	7.34	8.24	39"	45"	36"																																																								
60"	10.6	20.6	40.8	51.0	3'-6"	1'-7"	7'-11 1/2"	2'-3"	1'-7"	5'-4"	8'-2"	8'-2"	8'-4"	9'-2"	11'-2"	5.76	7.51	7.52	7.63	8.01	9.01	9.12	9.51	10.31	10.51	10.61	11.01	12.01	13.01	45"	60"	48"																																																							
60"	12.9	25.8	38.7	51.6	3'-10"	1'-8"	8'-8"	2'-4"	1'-8"	5'-3"	7'-11"	7'-11"	8'-2"	9'-2"	11'-2"	5.72	7.16	7.23	7.46	7.96	9.10	9.24	9.70	10.71	11.05	11.25	11.95	13.48	36"	60"	48"																																																								
68"	16.6	33.2	49.8	66.4	4'-3"	1'-10"	9'-8 1/2"	2'-6"	1'-10"	6'-2 1/2"	8'-10"	8'-10"	9'-2"	10'-2"	12'-6"	6.63	9.01	9.09	9.38	10.02	11.39	11.56	12.13	13.36	13.77	14.02	14.88	16.73	43"	68"	54"																																																								
76"	20.5	41.0	61.5	82.0	4'-8"	1'-10"	9'-8"	2'-9"	1'-10"	7'-2"	9'-9"	9'-9"	10'-1"	11'-3"	13'-9"	8.66	11.74	11.85	12.22	13.02	14.82	15.04	15.77	17.37	17.91	18.23	19.34	21.74	48"	76"	60"																																																								
83"	24.1	48.2	72.3	96.4	5'-0"	1'-11"	10'-6"	2'-10"	1'-11"	8'-0"	10'-10"	10'-10"	12'-3"	15'-2"	18'-0"	16.98	16.98	17.68	18.01	18.78	22.86	25.18	25.28	26.44	28.06	31	53"	83"	66"	66"																																																									
91"	29.5	59.0	88.5	118.0	5'-6"	1'-12"	12'-6 1/2"	2'-11"	1'-12"	9'-0 1/2"	10'-7"	10'-7"	11'-4"	14'-0"	16'-9"	16.98	16.98	17.68	18.01	18.78	22.86	25.18	25.28	26.44	28.06	31	53"	83"	66"	66"																																																									
17"	1	2.2	3.3	4.4	1'-9"	1'-2"	3'-10"	1'-10"	1'-2"	0'-4"	2'-6"	2'-6"	2'-7"	2'-11"	3'-6"	1.16	1.47	1.48	1.52	1.60	1.80	1.88	2.04	2.09	2.12	2.23	2.48	17"	15"	17"	15"																																																								
21"	1.6	3.2	4.8	6.4	1'-11"	1'-2"	4'-3"	1'-10"	1'-2"	0'-9"	2'-10"	2'-10"	2'-11"	3'-3"	4'-0"	1.33	1.69	1.70	1.75	1.84	2.04	2.06	2.15	2.33	2.40	2.57	2.84	15"	21"	18"	18"																																																								
28"	2.8	5.6	8.4	11.2	2'-4"	1'-3"	5'-5"	1'-11"	1'-3"	1'-8"	3'-5"	3'-5"	3'-6"	3'-11"	4'-10"	1.78	2.31	2.33	2.39	2.53	2.83	2.87	2.99	3.26	3.36	3.42	3.60	4.01	20"	28"	24"																																																								
36"	4.8	9.6	14.4	19.2	2'-8"	1'-4"	6'-5"	1'-12"	1'-4"	1'-10"	4'-10"	4'-10"	4'-11"	5'-4"	6'-4"	2.33	3.09	3.12	3.14	3.28	3.68	3.70	3.82	4.10	4.14	4.24	4.32	4.52	5.00	28"	36"	30"																																																							
42"	5.9	11.8	17.7	23.6	3'-1	1'-5"	6'-10 1/2"	2'-1"	1'-5"	3'-4 1/2"	4'-9"	4'-9"	4'-11"	5'-6"	6'-9"	3.13	4.06	4.09	4.20	4.45	4.99	5.06	5.28	5.62	5.76	5.93	6.03	6.36	7.09	29"	42"	36"																																																							
49"	8.4	16.8	25.2	33.6	3'-5"	1'-6"	7'-8"	2'-2"	1'-6"	4'-2"	5'-6"	5'-6"	5'-8"	6'-4"	7'-9"	3.83	5.00	5.04	5.18	5.48	6.16	6.24	6.52	7.12	7.32	7.44	7.86	8.76	9.33	33"	49"	42"																																																							
57"	10.6	21.2	31.8	42.4	3'-10"	1'-7"	8'-7 1/2"	2'-3"	1'-7"	5'-1 1/2"	6'-4"	6'-4"	6'-7"	7'-4"	8'-11"	4.87	6.31	6.36	6.45	6.91	7.74	7.84	8.18	8.93	9.18	9.33	9.85	10.96	13.77	47"	57"	48"																																																							
63"	13.2	26.4	39.6	52.8	4'-3"	1'-8"	9'-6 1/2"	2'-4"	1'-8"	6'-0"	7'-10"	7'-10"	8'-1"	9'-1"	11'-1"	6.01	7.87	7.94	8.02	8.52	9.40	9.52	9.94	10.86	11.15	11.33	11.97	13.33	15	63"	48"																																																								
71"	16.9	33.8	50.7	67.6	4'-7"	1'-10"	10'-6"	2'-6"	1'-10"	6'-10"	7'-10"	7'-10"	8'-1"	9'-1"	11'-1"	7.80	10.15	10.23	10.51	11.12	12.49	12.65	13.22	14.43	14.85	15.10	15.94	17.77	47"	71"	60"																																																								



1. Use Class II concrete.
2. Reinforcing steel is either Grade 40 or 60.
3. Endwalls may be cast in place or precast concrete. (Additional reinforcement necessary for handling precast units will be determined by the Contractor or the supplier).
4. Chamfer all exposed edges and corners to $\frac{3}{8}$ ".
5. Endwall dimensions, locations and positions are for round and elliptical concrete pipe and for round and pipe-arch corrugated metal pipe. Round concrete pipe shown.
6. On outfall ditches with side slopes flatter than 1:1.5 provide 20' transitions from the endwall to the flatter side slopes, right of way permitting.
7. Construct front slope and ditch transitions in accordance with Index 430-001.
8. Quantities shown are for estimating purposes only.

TABLE OF CONTENTS:	
Sheet	Description
1	General Notes and Contents
2	Concrete Endwall Details
3	Concrete and Metal Pipe Tables
4	Spacing For Multiple Pipes

ALL DETAILS THIS SHEET
PER FDOT FY 2024-25
STANDARD PLANS



FDOT STRAIGHT CONCRETE ENDWALLS SINGLE AND MULTIPLE PIPES

N.T.S.

REVISIONS
PLOT DATE:
DRAWN BY: JMM
DESIGNED BY: CN
CHECKED BY: WES
SCALE: AS NOTED
JOB NO.: 2154-003
© LATEST DATE HEREIN SHEET NO.
C15A
OF XX

GENERAL NOTES:

1.

ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF CITY & JEA STANDARDS, (LATEST REVISION) AND ALL CURRENT CITY & JEA STANDARD DETAILS AS WELL AS ALL APPLICABLE, STATE AND LOCAL REGULATIONS. THE WORK SHALL ALSO BE PERFORMED AND TESTED IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL INVESTIGATION REPORT PROVIDED BY UNIVERSAL ENGINEERING SCIENCES (REPORT 1822576). IF MORE STRINGENT THAN CITY REQUIREMENTS.
2.

ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A. SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES OF HIS EMPLOYEES, AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH COMPLYING WITH O.S.H.A. REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTORS BID.
3.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUBSURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT. THE CONTRACTOR IS ALSO URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF THE PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN RESOLVING POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO THE CONSTRUCTION OF THE PROJECT.
4.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EITHER CONDUCT ANY FIELD EXPLORATION OR ACQUIRE ANY GEOTECHNICAL ASSISTANCE REQUIRED TO ESTIMATE THE AMOUNT OF UNSUITABLE MATERIAL THAT WILL REQUIRE REMOVAL AND/OR TO ESTIMATE THE AMOUNT OF OFF SITE BORROW THAT WILL BE REQUIRED.
5.

ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER AND/OR THE CITY FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER AND THE CITY.
6.

ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD.) UNITED STATES COASTAL AND GEODETIC SURVEY (U.S.C. & G.S.), AS DETERMINED BY PERRET AND ASSOCIATES.
7.

FOR BOUNDARY, ROADWAY AND LOT GEOMETRY INFORMATION SEE PLAT.
8.

THE CONTRACTOR WILL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY TO PERFORM MATERIAL TESTING AND SOIL TESTING IN ACCORDANCE WITH CITY AND/OR JEA REQUIREMENTS. THIS SHALL INCLUDE DENSITY TESTS IN ALL PAVEMENT AREAS AND IN ALL UTILITY TRENCHES LOCATED IN PAVEMENT AREAS CONCRETE TESTING AND ALL OTHER MATERIAL TESTING. PRIOR TO LIMEROCK PLACEMENT, THE PROJECT GEOTECHNICAL ENGINEER SHALL MAKE RECOMMENDATION FOR UNDERDRAIN PLACEMENT.
9.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE REQUIRED FOR THE PROJECT INCLUDING CITY RIGHT-OF-WAY PERMITS FOR WORK IN THE CITY RIGHT- OF-WAY OR EASEMENT.
10.

THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN CITY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION AND REPAIR.
11.

ALL PUBLIC DRAINAGE EASEMENTS SHALL BE "UNOBSTRUCTED" EASEMENTS. ALL "UNOBSTRUCTED" EASEMENTS TO BE CLEAR AND DRIVEABLE.
12.

"AS-BUILT" DRAWINGS – AS-BUILTS TO THE OWNER AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATIONS, CERTIFICATION AND SUBMITTAL OF "AS-BUILT" DRAWINGS IN ACCORDANCE WITH CURRENT CITY & JEA STANDARDS AND SPECIFICATIONS AND SJRWMD REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCESS THE "AS-BUILT" DRAWINGS FOR APPROVAL BY THE CITY AND OWNER.
13.

THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
14.

ALL CLEARING AND GRUBBING REQUIRED FOR ALL ROADWAY, UTILITIES, DITCHES, AND BERMS INCLUDED IN THIS PROJECT AND THE CLEARING AND GRUBBING OF ALL RIGHT-OF-WAY OR EASEMENTS SHALL BE CONSIDERED AS PART OF THE PROJECT.
15.

ALL AREAS SHOWN TO BE FILLED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH COUNTY STANDARDS AND SHALL BE FILLED WITH CLEAN STRUCTURAL FILL COMPACTED AND TESTED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
16.

CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT.
17.

ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE PROPERLY DISPOSED OF OFF-SITE BY CONTRACTOR.
18.

ALL EXCESS SUITABLE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY ENGINEER OR OWNER.
19.

ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.
20.

BURNING OF TREES, BRUSH AND OTHER MATERIAL SHALL BE APPROVED, PERMITTED AND COORDINATED WITH CITY FIRE MARSHAL.
21.

ROADWAY UNDERDRAINS SHALL BE AS REQUIRED ON THE PLANS OR AS MAY BE DETERMINED NECESSARY BY THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF HIGH GROUND WATER CONDITIONS ARE PRESENT DURING THE PREPARATION OF THE ROADWAY SUB-BASE.
22.

CONTRACTOR SHALL PROVIDE CONTRACTION JOINTS AT 10' INTERVALS AND EXPANSION JOINTS SHALL BE CONSTRUCTED AT 50' INTERVALS AND AT ALL RADIUS POINTS ON ALL CURBING.
23.

CONTRACTOR SHALL PROVIDE EXPANSION JOINTS AT 18' INTERVALS AND CONTRACTION JOINTS SHALL BE SPACED AT 6' INTERVALS BETWEEN EXPANSION JOINTS.
24.

MAINTENANCE OF TRAFFIC SHALL CONFORM TO F.D.O.T. STANDARD INDEX 600, LATEST EDITION.
25.

ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARD INDEXES 11860, 17346, AND 17352 LATEST EDITION.
26.

ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED ROADWAY/SITE DEVELOPMENT SHALL BE REMOVED BY THE CONTRACTOR UTILIZING THE HYDRO-BLASTING METHOD.
27.

ALL AREAS DISTURBED IN THE CITY RIGHT OF WAY SHALL BE SODDED.
28.

ANY CONCERNS OR CONFLICTS WITH ADA GRADING OR ANY OTHER GRADING ON SITE THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

UTILITY NOTES:

1.

THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND IMPROVEMENTS SHOWN ON THE DRAWINGS IS BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN VERIFIED. THE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AND FIELD VERIFY LOCATIONS OF EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO COMMENCING ANY CONSTRUCTION. IF THE LOCATIONS SHOWN ARE CONTRARY TO THE ACTUAL LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY. THIS DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITIES AND IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR AND SHALL REPAIR OR PAY FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH HE SHALL CONNECT.
2.

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL MATERIALS, IF REQUIRED, TO THE ENGINEER FOR REVIEW AND APPROVAL, PRIOR TO SUBMITTAL TO THE CITY & JEA, AND PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY PIPE OR STRUCTURE.
3.

ALL PIPE LENGTHS ARE SCALED DIMENSIONS. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH CITY REQUIREMENTS AND SHALL BE CONSTRUCTED TO CONFORM WITH CURBING, PROPERTY LINES AND LOW POINTS AS SHOWN ON THE PLANS.
4.

CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEAN AND FUNCTIONING PROPERLY AT TIME OF ACCEPTANCE
5.

ALL DRAINAGE STRUCTURES TO HAVE TRAFFIC BEARING GRATES UNLESS OTHERWISE NOTED.
6.

ALL DRAINAGE PIPE JOINTS IN CITY DRAINAGE EASEMENTS, DRAINAGE EASEMENTS BETWEEN PRIVATE LOTS, DRAINAGE RIGHT-OF-WAYS AND UNDER PAVED ROADS ARE TO BE FILTER-WRAPPED.
7.

ALL INVERTS IN DRAINAGE STRUCTURES TO BE PRE CAST OR BRICK WITH LAYER OF MORTAR BETWEEN EACH LAYER OF BRICK, OR REDDI-MIX CONCRETE WITH #57 STONE.
8.

UNSUITABLE MATERIALS UNDER WATER, SEWER PIPE, STORM PIPE OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL, PROPERLY COMPACTED.
9.

ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUB GRADE FOR PAVEMENT.
10.

ALL WATER AND SEWER CONSTRUCTION WITHIN THE COUNTY SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FLORIDA STATUTES.
11.

CONTRACTOR SHALL PROVIDE, TO THE ENGINEER, A SCHEDULE OF INVERT ELEVATIONS OF ALL SANITARY MANHOLES & DRAINAGE STRUCTURES PRIOR TO THE PLACEMENT OF THE LIMEROCK BASE COURSE. THIS SCHEDULE TO BE PROVIDED BY THE REGISTERED LAND SURVEYOR SUBMITTING THE "AS BUILT" DRAWINGS FOR THIS PROJECT.
12.

ALL SEWER MAINS SHALL BE PVC (ASTM-3034) SDR-26 FOR DEPTHS TO 12 FEET, SDR26 FOR DEPTHS 12' OR DEEPER, OR IN EASEMENTS UNLESS OTHERWISE NOTED. FORCE MAINS TO BE PVC – DR18 PIPE UNLESS OTHERWISE NOTED AND SHALL HAVE A MINIMUM COVER OF 36" FROM FINISHED GRADE.
13.

SANITARY SEWER SERVICES SHALL BE 6" PVC WITH A MINIMUM SLOPE OF 0.0104 FEET PER FOOT AND SHALL BE TERMINATED AT THE RIGHT-OF-WAY LINE WITH A DEPTH OF 48" UNLESS OTHERWISE DETAILED OR RESTRICTED DUE TO DEPTH OF SEWER MAIN.
14.

ALL WATER MAINS SHALL BE FLUSHED IN ACCORDANCE WITH AWWA C651 DISINFECTION STANDARDS AND/OR JEA APPLICABLE STANDARDS AND SPECIFICATIONS.
15.

ALL WATER LINES 4" OR LESS SHALL BE NATIONAL SANITARY FOUNDATION POTABLE WATER (N.S.F.P.W.) RATED.
16.

WATER AND SEWER LINES ARE DESIGNATED TO FINISHED GRADES AND SHALL BE PROTECTED UNTIL FINISHED WORK IS COMPLETE.
17.

HORIZONTAL SEPARATION BETWEEN WATER MAINS, VALVES, FITTINGS AND SANITARY OR STORM SEWER SHALL IN ACCORDANCE WITH THE F.D.E.P. REGULATIONS AND JEA STANDARD DETAILS.
18.

ALL WATER LINE CROSSINGS SHALL HAVE A FULL LENGTH OF PIPE CENTERED OVER THE EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING AT CROSSINGS. WATER MAINS CROSSING SANITARY AND STORM SEWER LINES, AS WELL AS VALVES AND FITTINGS, MUST HAVE A MINIMUM 18" VERTICAL SEPARATION. IF THIS SEPARATION CANNOT BE OBTAINED, THE WATER MAIN MUST BE CONSTRUCTED OF DUCTILE IRON PIPE FOR A DISTANCE OF 10' EITHER SIDE OF THE SANITARY OR STORM SEWER MAIN, OR INSTALL WATER MAIN IN D.I. SLEEVE MIN. LENGTH 20' CENTERED, ENDS OF SLEEVE TO BE GROUT FILLED, IN EITHER CASE, MINIMUM OF 6" OF VERTICAL SEPARATION SHALL BE MAINTAINED.
19.

MECHANICAL RESTRAINING DEVICES ARE REQUIRED IN ACCORDANCE WITH JEA STANDARDS WHERE WATER MAINS ARE TERMINATED AND AT ALL BENDS AND TEES.
20.

UNLESS OTHERWISE NOTED, ALL OFF-SITE WATER MAIN TO BE PVC DR18, C-900 AND ALL ON-SITE WATER MAIN 4" AND GREATER SHALL BE DR18, C-900. ALL ON-SITE WATER MAIN 3" OR SMALLER SHALL BE SCHEDULE 40 PVC AND N.F.S.P.W. RATED.
21.

ALL GATE VALVES SHALL BE UTILITY COMPANY STANDARD. VALVES SHALL BE MECHANICAL JOINT, CAST IRON, BRONZE FITTED WITH RESILIENT SEAT. ALL VALVES SHALL OPEN BY TURNING TO THE LEFT. VALVES SHALL BE RATED AT 200 PSI WORKING PRESSURE AND 400 PSI TEST PRESSURE.
22.

FIRE HYDRANTS SHALL BE J.E.A. STANDARD. HYDRANTS SHALL BE PAINTED AS PER J.E.A. STANDARDS.
23.

ALL ELECTRIC CONDUIT WORK SHALL BE COMPLETED PRIOR TO THE PRESSURE TESTING OF WATER AND SEWAGE FORCE MAINS.
24.

ALL WATER MAINS SHALL BE BACTERIOLOGICAL AND PRESSURE TESTED AT 150 PSI FOR 2 HOURS IN ACCORDANCE WITH AWWA C-600 STANDARDS. NO CONNECTION TO EXISTING POTABLE WATER SYSTEM SHALL BE ALLOWED UNTIL ALL PROPOSED WATER LINES HAVE BEEN PRESSURE TESTED, DISINFECTED, AND CLEARED FOR SERVICE. THE ENGINEER MUST BE NOTIFIED 48 HOURS PRIOR TO PERFORMING THE PRESSURE TEST AND MUST BE PRESENT.
25.

A UTILITY COMPANY PRE CONSTRUCTION CONFERENCE MUST BE HELD PRIOR TO COMMENCEMENT OF WATER OR SEWER WORK. THE CONTRACTOR SHALL CONTACT UTILITY COMPANY TO SCHEDULE THIS CONFERENCE.
26.

TELEVISION INSPECTION SHALL BE REQUIRED ON ALL GRAVITY SEWER MAINS. THIS SERVICE SHALL BE PROVIDED BY THE CONTRACTOR AS PART OF THE SANITARY SEWER CONTRACT. A FULL WRITTEN REPORT AS TO THE CONDITION OF THE PIPE WITH PERTINENT DATA SUCH AS DISTANCE BETWEEN MANHOLES, LOCATION OF SERVICES, ETC. SHALL BE SUBMITTED TO THE OWNER AND ENGINEER PRIOR TO ACCEPTANCE, AND ONE COPY OF THE VIDEO TAP SHALL BE SUBMITTED TO THE COUNTY. ALL DEFECTIVE AREAS AND ITEMS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE. ALL REPAIRED SECTIONS MUST BE REINSPECTED PRIOR TO ACCEPTANCE.
27.

THE CONTRACTOR SHALL AVOID SERVICE INTERRUPTIONS AND MAINTAIN ANY EXISTING WATER AND SEWER SERVICE TO MEET THE SYSTEM DEMANDS AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED CUSTOMERS OF THE UTILITY A MINIMUM OF 48 HOURS IN ADVANCE OF ANY INTERRUPTION OF SERVICE.
28.

ALL NEW AND/OR RELOCATED WATER MAIN PIPES AND FITTINGS SHALL NOT CONTAIN MORE THAN EIGHT PERCENT LEAD AND ALL PACKING AND JOINT MATERIALS USED IN THE JOINTS SHALL CONFORM WITH ALL APPLICABLE AWWA STANDARDS. ALL NEW AND/OR RELOCATED WATER SERVICES AND PLUMBING SHALL CONTAIN NO MORE THAN EIGHT PERCENT LEAD AND ALL SOLDERs AND FLUX SHALL CONTAIN NO MORE THAN 0.2 PERCENT LEAD.
29.

ALL WATER AND SEWER CONSTRUCTION MATERIALS TO BE CONSTRUCTED IN CITY RIGHT-OF-WAY OR CITY EASEMENT MUST BE IN CONFORMANCE WITH THE J.E.A. APPROVED MATERIALS MANUAL.
30.

A PRECONSTRUCTION CONFERENCE IS REQUIRED AND SHALL BE SCHEDULED WITH JEA. CONTACT CHRIS BARRINGTON 904-665-4081

31.

CONTRACTOR SHALL INSTALL WARNING TAPE AND LOCATE WIRE ON ALL WATER MAINS AND FORCE MAINS IN ACCORDANCE WITH J.E.A. STANDARDS.
32.

IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH, WORK SHALL BE STOPPED AND THE AND SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND ANY SOLVENT NOTED.
33.

ALL SERVICE TAPS AND METERS 3" AND ABOVE TO EXISTING MAINS SHALL REQUIRE A SPECIAL ESTIMATE. THE SPECIAL ESTIMATE IS TO BE APPLIED FOR THROUGH J.E.A.
34.

ALL SEWER FORCE MAIN(S) SHALL BE TESTED @ 150 PSI FOR 2 HOURS AND LEAKAGE TESTING SHALL BE IN ACCORDANCE WITH AWWA C600-87 AND/OR JEA APPLICABLE STANDARDS AND SPECIFICATIONS. THE ENGINEER MUST BE NOTIFIED 48 HOURS PRIOR TO PERFORMING THE PRESSURE TEST AND MUST BE PRESENT.
35.

METER MUST BE APPLIED FOR AND PAID FOR BY LICENSED MASTER PLUMBER OR UTILITY CONTRACTOR. APPLICATION IS TO BE MADE AT 515 NORTH LAURA STREET IN THE CUSTOMER SERVICE CENTER 1ST FLOOR.
36.

ALL FIRE LINE TAPS OR FIRE HYDRANT TO BE CONSTRUCTED IN CITY R/W MUST BE PERFORMED BY JEA CONTRACTOR. TAP MUST BE SCHEDULED THROUGH JEA INSPECTOR. CONSTRUCTION SHALL BE PERFORMED UPON APPLICATION AND PAYMENT BY CONTRACTOR OR LICENSED MASTER PLUMBER @ 515 N. LAURA STREET 1ST FLOOR, CUSTOMER SERVICE BUILDING. IN ADDITION, ANY APPLICATION D.E.P./JEA PERMITS SHALL BE SECURED BY THE ENGINEER OF RECORD SHALL BE SECURED BY THE ENGINEER OF RECORD PRIOR TO TAP APPLICATION AND INSTALLATIONS.
37.

AUTOMATIC SPRINKLER/FIRE MAIN SERVICES: A METERED DETECTOR CHECK BACKFLOW PREVENTER IS REQUIRED ON ALL A.S. SERVICES AND FIRE MAIN CONNECTIONS INSTALLED FOR ON SITE FIRE PROTECTION. AT THE TIME OF OR PRIOR TO FINAL PLAN APPROVAL A DETECTOR CHECK AFFIDAVIT SHALL BE ON FILE WITH JEA WATER AND SEWER INCLUDE AN ASSIGNED BUILDING AND ZONING STREET ADDRESS FOR THIS SITE. RESUBMITTAL SHALL BE REQUIRED IN THE EVENT THAT FIRE MARSHAL REVIEW OF BUILDING PLANS REQUIRES A SPRINKLER SYSTEM WHICH WAS NOT INDICATED ON THE CIVIL DESIGN PLANS.
38.

CONNECTION CONTINGENT UPON CONSTRUCTION, DEDICATION AND FINAL ACCEPTANCE OF THE OFFSITE WATER TRANSMISSION SYSTEM AND SEWER COLLECTION SYSTEM WITHIN THE LIMITS OF THIS PROJECT.
39.

WATER AND SEWER CAPACITY CITY FEES SHALL BE REQUIRED AT TIME OF METER APPLICATION. FEES WILL BE BASED ON TOTAL NUMBER OF PLUMBING FIXTURES UNITS SHOWN OR LISTED ON BUILDING PLANS.
40.

NOTICE OF BACKFLOW PREVENTOR LOCATION: APPROVED BACKFLOW PREVENTORS SHALL BE LOCATED ADJACENT TO RIGHT-OF-WAY LINE ON PRIVATE PROPERTY UNLESS APPROVED BY THE COMMERCIAL & NETWORK SERVICE FULFILLMENT.
41.

BACKFLOW PREVENTION ASSEMBLIES SHALL BE TESTED FOLLOWING INSTALLATION BY A LICENSED TESTER. SUBMIT BACKFLOW ASSEMBLY TEST TO JEA ATTN: BILL POUND, 21 W. CHURCH STREET T-8 JACKSONVILLE, FL 32202. BACKFLOW PREVENTION ASSEMBLIES SHALL BE SELECTED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF JEA'S CROSS-CONNECTION CONTROL POLICY MANUAL; CONTACT BILL POUND AT 904-665-5787
42.

ALL PIPING, JOINTS AND VALVES SHALL CONFORM WITH THE APPROPRIATE AWWA STANDARDS AND SPECIFICATIONS.
43.

ALL PIPING AND ASSOCIATED APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST JEA STANDARDS, DETAILS AND MATERIALS MANUAL. LATEST REVISIONS.
44.

WATER MAIN SHALL BE A MINIMUM OF 3' HORIZONTAL DISTANCE FROM THE O.D. OF WATER MAIN TO O.D. OF STORM DRAIN PIPE OR STORM STRUCTURE(S).
45.

A \$20.00 TAP APPLICATION FEE IS REQUIRED AND SHALL BE PAID @ 515 NORTH LAURA STREET, 1ST FLOOR CUSTOMER SERVICE BUILDING. THIS MUST BE ACCOMPLISHED PRIOR TO CONNECTION TO THE JEA'S SEWER COLLECTION SYSTEM. IN ADDITION, SEWER CAPACOUNTY FEES MUST BE PAID AT TIME OF OR PRIOR TO THE TAP FEE AND WILL BE BASED ON THE TOTAL NUMBER OF SEWER FIXTURE UNITS CURRENTLY SERVING THIS SITE AND DISCHARGING TO THE JEA SYSTEM FOR TREATMENT.

EROSION & SEDIMENT CONTROL NOTES:

1.

THESE PLANS INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL-A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.) CHAPTER 6. THE CONTRACTOR SHALL PROVIDE EROSION PROTECTION AND TURBIDITY CONTROL AS REQUIRED TO INSURE CONFORMANCE TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS AND FINES.
2.

THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS AND SPECIFICATIONS AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT SPECIFICATIONS AND CRITERIA.
3.

EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
4.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER CITY STANDARDS AND MEETING THE N.P.D.E.S. FINAL STABILIZATION REQUIREMENTS.
5.

IF DEWATERING CAPACITIES REQUIRES A CONSUMPTIVE USE PERMIT (C.U.P.) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN THE PERMIT THROUGH THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
6.

PRIOR TO COMMENCEMENT OF CONSTRUCTION AND EXCAVATION ACTIVITIES, THE CONTRACTOR SHALL PERFORM GROUNDWATER TESTING IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION AGENCY FEDERAL REGISTER, PAGE 42739, PART 1A.3, TO DETERMINE PETROLEUM CONTAMINATION LEVELS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING N.P.D.E.S. PERMIT, IF REQUIRED, IN ORDER TO DISCHARGE ANY GROUNDWATER ENCOUNTERED DURING CONSTRUCTION AND DEWATERING OPERATIONS.
7.

48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A "NOTICE OF INTENT" TO THE EPA IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS.

FENNEL COMMERCIAL DEVELOPMENT

FOR
RCBF PROPERTIES, LLC

GENERAL NOTES AND DETAILS

DOMINION ENGINEERING GROUP, INC.

PLANNERS AND ENGINEERS

4348 SOUTHPOINT BLVD, SUITE 201, JACKSONVILLE, FLORIDA 32216

TEL: 904-854-4500 REGISTRY NUMBER: 26821 FAX 904-854-4505

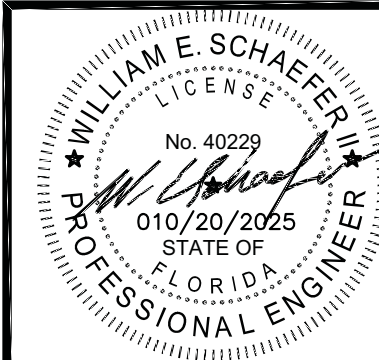
www.dom-eng.com

REVISIONS

PLOT DATE:
DRAWN BY: JMM
DESIGNED BY: CN
CHECKED BY: WES
SCALE: AS NOTED
JOB NO.: 2154.003
© LATEST DATE HEREON
SHEET NO.

C16

OF XX



STORM WATER POLLUTION PREVENTION PLAN

CONTRACTOR'S REQUIREMENTS

REQUIREMENTS	CONTRACTOR'S REQUIREMENTS															
<div><div>SITE DESCRIPTION</div><div>PROJECT NAME AND LOCATION: FENNEL COMMERCIAL FENNEL ROAD DUVAL COUNTY OWNER NAME AND ADDRESS: RCBF PROPERTIES, LLC 3491 PALL MALL ROAD, SUITE 3202 JACKSONVILLE, FL 32257 DESCRIPTION: COMMERCIAL SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING AND GRUBBING; EARTHWORK, PAVEMENT AND GRADING; STORM SEWER, UTILITIES, AND PREPARATION FOR FINAL PLANTING AND SEEDING. RUNOFF CURVE NUMBERS: 1. PRE-CONSTRUCTION = 77 2. DURING CONSTRUCTION = 85 3. POST-CONSTRUCTION = 92 SOILS: SEE SOIL BORING REPORT FOR SOILS DATA SITE MAPS: * SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS. * SEE ATTACHED EROSION & TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS * SEE GENERAL NOTES FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION. SITE AREA: 1. TOTAL AREA OF SITE = 23.23 +/- Ac. 2. TOTAL AREA TO BE DISTURBED = 22.82 +/- Ac. NAME OF RECEIVING WATERS: EXISTING WETLAND</div></div> <div><div>GENERAL</div><div>THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION. SEQUENCE OF MAJOR ACTIVITIES: THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS: <table><tr><td>1. INSTALL STABILIZED CONSTRUCTION ENTRANCE</td><td>9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER.</td></tr><tr><td>2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED</td><td>10. APPLY BASE TO PROJECT</td></tr><tr><td>3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN</td><td>11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING</td></tr><tr><td>4. CONSTRUCT SEDIMENTATION BASIN</td><td>12. COMPLETE FINAL PAVING</td></tr><tr><td>5. CONTINUE CLEARING AND GRUBBING</td><td>13. REMOVE ACCUMULATED SEDIMENT FROM BASINS</td></tr><tr><td>6. STOCK PILE TOP SOIL IF REQUIRED</td><td>14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION</td></tr><tr><td>7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED</td><td>SWALES/DIKES AND RESEED/SOD AS REQUIRED</td></tr><tr><td>8. STABILIZE DENuded AREAS AND STOCKPILES AS SOON AS PRACTICABLE</td><td></td></tr></table> TIMING OF CONTROLS/MEASURES AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL. IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION & TURBIDITY CONTROL PLAN.</div></div> <div><div>CONTROLS</div><div>THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. AN EROSION AND TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO "CONTRACTORS RESPONSIBILITY" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED. STORM WATER MANAGEMENT STORM WATER DRAINAGE WILL BE PROVIDED BY (DESCRIPTION:) DETENTION PONDS FOR THE PROJECT, AREAS WHICH ARE NOT TO BE CONSTRUCTED ON, BUT WILL BE REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE, WHEN CONSTRUCTION IS COMPLETE, A TOTAL OF 22.82± ACRES WILL HAVE BEEN REGRADED, 0.63± ACRES LEFT UNDISTURBED. THE SITE DISCHARGES TO A WET DETENTION SYSTEM. WHERE PRACTICAL, TEMPORARY SEDIMENT BASINS WILL BE USED TO INTERCEPT SEDIMENT BEFORE ENTERING THE PERMANENT DETENTION BASIN. THE WET DETENTION SYSTEM IS DESIGNED WITH A 14 DAY MINIMUM RESIDENCE VOLUME. THIS IS IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY THE ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT FOR THIS TYPE OF DEVELOPMENT AT THE TIME OF PERMITTING. TIMING OF CONTROLS/MEASURES REFER TO " CONTRACTORS RESPONSIBILITY" FOR THE TIMING OF CONTROL/MEASURES. CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS RELATED TO STORM WATER MANAGEMENT AND EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED. D.E.R. DREDGE/FILL PERMIT # _____ N/A _____ C.O.E. DREDGE/FILL PERMIT # _____ S.J.R./W.M.D. M.S.S.W. PERMIT # _____ POLLUTION PREVENTION PLAN CERTIFICATION I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SIGNED: _____ ENGINEER: WILLIAM E. SCHAEFER, II #40229 DATED: _____</div></div>	1. INSTALL STABILIZED CONSTRUCTION ENTRANCE	9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER.	2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED	10. APPLY BASE TO PROJECT	3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN	11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING	4. CONSTRUCT SEDIMENTATION BASIN	12. COMPLETE FINAL PAVING	5. CONTINUE CLEARING AND GRUBBING	13. REMOVE ACCUMULATED SEDIMENT FROM BASINS	6. STOCK PILE TOP SOIL IF REQUIRED	14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION	7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED	SWALES/DIKES AND RESEED/SOD AS REQUIRED	8. STABILIZE DENuded AREAS AND STOCKPILES AS SOON AS PRACTICABLE	
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7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED	SWALES/DIKES AND RESEED/SOD AS REQUIRED															
8. STABILIZE DENuded AREAS AND STOCKPILES AS SOON AS PRACTICABLE																

CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL UP IS STABILIZED, THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE. LEVEL SPREADER SHALL BE CONSTRUCTED IN ACCORDANCE TO CITY STANDARD DETAIL D-914.	THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. ANY TEMPORARY SEDIMENT BASINS CONSTRUCTED MUST BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL FILL. ALL SEDIMENT COLLECTED IN PERMANENT OR TEMPORARY SEDIMENT TRAPS MUST BE REMOVED UPON FINAL STABILIZATION.	HAZARDOUS PRODUCTS THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS. * PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. * ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION. * IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED. PRODUCT SPECIFIC PRACTICES THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE: PETROLEUM PRODUCTS ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. FERTILIZERS FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS. PAINTS ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS. CONCRETE TRUCKS CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE. SPILL CONTROL PRACTICES IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP: MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.E. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE. SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF PERSONNEL WILL BE POSTED IN THE OFFICE TRAILER ONSITE. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS. * NO MORE THAN 10 ACRES OF THE SITE WILL BE DENuded AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. * ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.50 INCHES OR GREATER. * ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT. * BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
5. STOCKPIILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPIILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.	OTHER CONTROLS WASTE DISPOSAL ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED. HAZARDOUS WASTE ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. SANITARY WASTE ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS. OFFSITE VEHICLE TRACKING A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.	
6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.		
7. INLET PROTECTION: INLETS AND CATCH BASINS WHICH DISCHARGE DIRECTLY OFF-SITE SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.		
8. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPLETE WITH THE PERMANENT GRASSING.		
9. TEMPORARY SEEDING AND MULCHING: SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN PARAGRAPH 8 ABOVE SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA ADEQUATE TO PREVENT MOVEMENT OF SEED AND MULCH.		
10. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. TEMPORARY GRASSING SHALL BE THE SAME MIX & AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.		
11. TEMPORARY REGRASSING : IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.		
12. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.		
13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.		
14. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. THE SEEDING MIX MUST PROVIDE BOTH LONG-TERM VEGETATION AND RAPID GROWTH SEASONAL VEGETATION. SLOPES STEEPER THAN 4:1 SHALL BE SEEDED AND MULCHED OR SOODED.		
STRUCTURAL PRACTICES 1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY. AND IT SHALL BE CONSTRUCTED IN ACCORDANCE TO D-914.		
2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN AN DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE: A. BLOCK & GRAVEL SEDIMENT FILTER - THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. REFER TO D-902 FOR CONSTRUCTION OF A CURB INLET SEDIMENT FILTER, AND D-904 FOR CONSTRUCTION OF A DROP INLET SEDIMENT FILTER. B. GRAVEL SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES & UNPROTECTED AREAS. REFER TO D-903 FOR CONSTRUCTION OF CURB INLET & DROP SEDIMENT TRAP. C. DROP INLET SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S < 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q < 0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS. REFER TO D-905 FOR CONSTRUCTION OF HAY BALE & FABRIC SEDIMENT FILTER.		
3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION & SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES & HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.		
4. SEDIMENT BASIN: WILL BE CONSTRUCTED AT THE COMMON DRAINAGE LOCATIONS THAT SERVE AN AREA WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, THE PROPOSED STORM WATER PONDS (OR TEMPORARY PONDS) WILL BE CONSTRUCTED FOR USE AS SEDIMENT BASINS. THESE SEDIMENT BASINS MUST PROVIDE A MINIMUM OF 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED UNTIL FINAL STABILIZATION OF THE SITE.		

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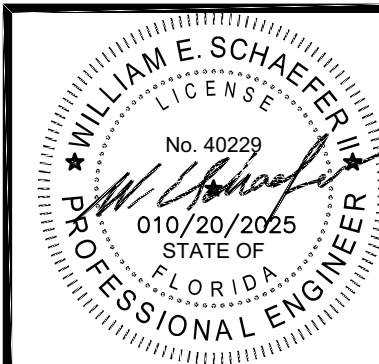
DOMINION ENGINEERING GROUP, INC.
PLANNERS AND ENGINEERS
4348 SOUTHPOINT BLVD, SUITE 201, JACKSONVILLE, FLORIDA 32216
TEL: 904-854-4500 REGISTRY NUMBER: 26821 FAX 904-854-4505
www.dom-eng.com

FENNEL COMMERCIAL DEVELOPMENT
FOR
RCBF PROPERTIES, LLC
SWPPP-CONTRACTOR'S REQUIREMENTS

REVISIONS

PLOT DATE:
DRAWN BY: JMM
DESIGNED BY: CN
CHECKED BY: WES
SCALE: AS NOTED
JOB NO.: 2154.003
© LATEST DATE HEREON
SHEET NO.

C17
OF XX



THIS IS THE CONTRACTORS CERTIFICATION REQUIRED BY THE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES), STORM WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION SITES OVER 5 ACRES. THIS CERTIFICATION MUST BE COMPLETED WEEKLY AND AFTER EVERY RAINFALL EVENT OVER 0.50 INCHES. IT IS SUGGESTED THAT THIS SHEET BE REMOVED FROM THE PLAN SET AND DUPLICATED AS NEEDED BY THE CONTRACTOR.

FENNELL COMMERCIAL DEVELOPMENT
FOR
RCBF PROPERTIES, LLC

PLOT DATE:
DRAWN BY: JMM
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CHECKED BY: WES
SCALE: AS NOTED
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© LATEST DATE HEREON SHEET NO.

OF XX

STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM				
STRUCTURAL CONTROLS				
DATE: _____				
EARTH DIKES/SWALES				
DIKE OR SWALE	FROM	TO	IS DIKE/SWALE STABILIZED ?	IS THERE EVIDENCE OF WASHOUT OR OVERTOPPING
MAINTENANCE REQUIRED FOR EARTH DIKE/SWALE: _____				
TO BE PERFORMED BY: _____ ON OR BEFORE: _____				
CATCH BASIN/CURB INLET/OUTFALL TURBIDITY CONTROLS				
STRUCTURE/ OUTFALL	ARE TURBIDITY CONTROLS IN PLACE	ANY EVIDENCE OF CLOSING/WASHOUT OR BYPASSING ?	ARE TURBIDITY CONTROLS IN NEED OF REPLACING	DOES SILT NEED TO BE REMOVED FROM AROUND CONTROL

MAINTENANCE REQUIRED FOR CATCH BASIN/CURB INLETS/OUTFALLS TURBIDITY CONTROLS: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

PAGE 2 OF 4

PROJECT:	
	STORM WATER POLLUTION PREVENTION PLAN INSPECTION AND MAINTENANCE REPORT FORM
	CHANGES REQUIRED TO THE POLLUTION PREVENTION PLAN: _____ _____ _____ _____ _____ _____ _____
	REASONS FOR CHANGES: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSONS OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.
SIGNATURE:	_____
DATE:	_____

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