



Application #: \_\_\_\_\_

## School Concurrency Reservation Certificate (SCRC) APPLICATION FORM

Project Name Graylon Oaks  
 Property Address Vermont Ave., Green Cove Springs, FL  
 Acres 3.8 Section 38 Township 06 Range 26  
 Parcel Number(s) 38-06-26-016748-000-00 & 38-06-26-016742-000-00

Future Land Use Current Neighborhood Proposed \_\_\_\_\_  
 Zoning Current PUD Proposed \_\_\_\_\_

**PROJECT DESCRIPTION** (INCLUDE ALL DEVELOPMENT, EXISTING & PROPOSED, ON THE PROPERTY)

E = Existing P = Proposed	Use/Description	Dwelling Units	Complete for EXISTING development only.		
			To Be Removed (Y or N)	CO Date	Active (Y or N)
P	Multifamily	28			

(IF NECESSARY, CONTINUE ON A SEPARATE SHEET OF PAPER)

**APPLICANT INFORMATION** ( ATTACH OWNER'S AUTHORIZATION FORM, IF THE APPLICANT IS NOT THE PROPERTY OWNER)

OWNER			AGENT/AUTHORIZED REPRESENTATIVE		
First Name	Last Name		First Name	Last Name	
	<u>Graylon Oaks Land Trust</u>				
Company Name			Company Name		
<u>318 Milwaukee Ave</u>					
Mailing Address			Mailing Address		
<u>Orange Park</u>	<u>FL</u>	<u>32073</u>			
City	State	Zip	City	State	Zip
<u>904-219-8358</u>	( )		( )	( )	
Phone	Fax		Phone	Fax	

Email Address: brentwhite16@gmail.com

**IMPACT MITIGATION** (DESCRIPTION OF PAST OR PROPOSED PUBLIC SCHOOL FACILITY DEDICATION, CONSTRUCTION OR FUNDING TO MITIGATE IMPACTS OF DEVELOPMENT PROPOSAL)

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**ATTACHMENTS**

**THE FOLLOWING ATTACHMENTS MUST BE SUBMITTED WITH THE APPLICATION:**

1. Proof of ownership (copy of deed or purchase agreement).
2. Legal description.
3. Vicinity (location) map.
4. General site plan including property boundaries and proposed development including use and intensity.
5. Phasing schedule for all proposed construction.
6. Owner's authorization form, if applicable.

**FOR DEPARTMENT USE ONLY**

Application Submittal:            Date \_\_\_\_\_

Receipt # \_\_\_\_\_ Amount \$ \_\_\_\_\_

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Application Determination     COMPLETE            Date Forwarded to School District \_\_\_\_\_

INCOMPLETE            No further review will be made until the deficiencies indicated below are remedied. If the deficiencies are not remedied within 30 days, the application will be deemed withdrawn.

Description of Deficiencies: \_\_\_\_\_

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RESUBMITTAL:                    Date \_\_\_\_\_

Reviewed By \_\_\_\_\_ Date \_\_\_\_\_

Application Determination     COMPLETE            Date Forwarded to School District \_\_\_\_\_

INCOMPLETE            No further review will be made until the deficiencies indicated below are remedied. If the deficiencies are not remedied within 30 days, the application will be deemed withdrawn.

Description of Deficiencies: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**FOR SCHOOL DISTRICT STAFF USE ONLY**

**CONCURRENCY  
DETERMINATION**

**APPROVED, see School Concurrency Reservation Letter**

**DENIED, see School Concurrency Denial Letter**

**\*\*ALL CAPACITY DETERMINATION/MITIGATION CALCULATIONS MUST BE ATTACHED TO THIS APPLICATION\*\***

\*\*\*The SCRC issued pursuant to this application is based on the information provided in the application package. A final development order will not be issued if the development for which a final development order is sought is not consistent with the description of development (including plans) on which the SCRC was issued.

## **PROCEDURES FOR DETERMINING AVAILABLE SCHOOL CAPACITY**

### *Completeness Review*

All applications shall be reviewed on a first-come, first-serve basis. Within five business days after its receipt, the Director or his Designee will determine whether the School Concurrency Application is complete. If the School Concurrency Application is complete and the submission requirements have been met, the Director will forward the School Concurrency Application to the School District Designee for review and a finding with regard to Available School Capacity.

If the School Concurrency Application is not complete, the Director will notify the Applicant of its deficiencies in writing. No further review will be made until the deficiencies of the Application are remedied. If any deficiencies in the Application are not remedied by the Applicant within 30 days of receipt of the above referenced written notification, the Application will be deemed withdrawn. At the time that the School Concurrency Application is determined to be complete, the Director shall send it to the School District for review.

### *Identification of Available School Capacity*

Within 30 business days of the submission to the Director of a complete School Concurrency Application, a revised School Concurrency Application, or a proffered Proportionate Share Mitigation Agreement, the School District Designee shall prepare a written report that:

- (1) Identifies Available School Capacity in the relevant Concurrency Service Area;
- (2) Identifies any previously dedicated, constructed, or funded Public School Facility accepted as Proportionate Share Mitigation for the public school impacts of the Development Proposal; and
- (3) Based on information provided by the Applicant and its own data and Work Program, states whether Public School Concurrency can be achieved for each type of Public School Facility sufficient to accommodate the Development Proposal.

### *Determination of Available School Capacity*

The School District Designee shall make a finding with regard to Available School Capacity based on the methodology below:

- (1) The School District Designee will measure Available School Capacity for each school level, based on the School Capacity of the Concurrency Service Area in which a Development Proposal is located. If School Capacity is not available in the affected Concurrency Service Area, the School District Designee shall determine whether there is Available School Capacity in any contiguous Concurrency Service Area.
- (2) For each school type (elementary, middle and high), the School District shall use the following calculation methodology to determine if there is Available School Capacity:

- (i) *Formula for Total Public School Facilities*

**Total Public School Facilities =**  
Existing Public School Facilities + Planned Public School Facilities

- (ii) *Formula for Available School Capacity*

**Available School Capacity =**  
School Capacity-(Enrollment + Reserved)

School Capacity = the lesser of FISH capacity or core cafeteria capacity.

Enrollment = Student enrollment as counted at the Fall FTE.

Reserved = Students generated from residential developments pursuant to the approval of a School Concurrency Reservation Certificate.

- (3) If a Finding of Available School Capacity is based upon the capacity of one or more contiguous Concurrency Service Areas, then the School District Designee will recommend to the School Board the means and timeframes within which the impacts of the Development Proposal will be shifted to the contiguous Concurrency Service Area. If more than one Concurrency Service Area has capacity, the School District Designee shall recommend to the School Board which Concurrency Service Area will receive the impacts of the Development Proposal. Methods to shift impacts may include, but are not necessarily limited to:
- (i) redistricting;
  - (ii) transportation plans;
  - (iii) operational adjustments; or
  - (iv) terms or conditions agreed to by the Applicant.

*Finding of Available School Capacity*

Where the School District determines that adequate capacity is available, the School District shall issue a Finding of Available School Capacity.

Upon issuance of a Finding of Available School Capacity, the School District Designee shall allocate the amount of School Capacity to be required by the Development Proposal on the Development Review Table. It shall be reduced if, and to the same extent that, the Development Proposal is amended to reduce the impacts on Public School Facilities. The School District Designee shall issue a School Concurrency Reservation Letter to the City upon a Finding of Available Capacity and record the School Concurrency Reservation on the Development Review Table. Within 5 days of receipt of the School Concurrency Reservation Letter, the City will issue, to the applicant, a School Concurrency Reservation Certificate.

If a Finding of Available School Capacity is based on a Public School Facility provided through Proportionate Share Mitigation, final approval of the Development Proposal shall not be given by the City until the execution of a Proportionate Share Mitigation Agreement by the Applicant and the School Board. Upon approval of the Development Proposal, the City shall execute the Proportionate Share Mitigation Agreement.

# INSTRUCTIONS FOR SCHOOL CONCURRENCY RESERVATION CERTIFICATE (SCRC) APPLICATION FORM

The Planning Department (Department) shall review the development proposal and render a completeness decision within five (5) working days. The applicable fee must be submitted with the application.

An Applicant may withdraw its Application for school concurrency at any time by submitting a written request to the Department. The withdrawal of an Application will result in the forfeiture of all fees paid and the immediate release of any capacity allocations.

**Application Number** is the file number assigned by the Planning Department.

**Project Name** is the name of the development or phase of development.

**Property Address** is the physical location of the property subject to the application.

**Acres** is the size of the property subject to the application.

**Section, Township, Range and Parcel Numbers** is the 17-digit number (00-00-00-000000-00) assigned to the property by the Clay County Property Appraiser’s Office (CCPAO). It is also referred to as the Real Estate Number. You can obtain this information by contacting the CCPAO at (904) 284-6305 or performing a search on the website [www.ccpao.com](http://www.ccpao.com)

**Future Land Use, Current** is the property’s land use category as currently adopted on the Future Land Use Map Series of the Comprehensive Plan. **Future Land Use, Proposed** is the land use category being requested through an amendment to the Future Land Use Map. Please note that a SCRC cannot be issued for a use or intensity that is inconsistent with the current future land use designation of the property. You can obtain the future land use designation by contacting the Clay County Planning Department at (904) 269-6301 or by reviewing the County Land Use Map at the following website: [www.claycountygov.com](http://www.claycountygov.com)

**Zoning, Current** is the property’s zoning category as currently adopted on the Zoning Atlas.

**Zoning, Proposed** is the zoning category being requested through the rezoning process. You can obtain the zoning category by contacting the Clay County Zoning Department at (904) 269-6301.

**Project Description** section pertains to ALL development, existing and currently proposed, on the property.

E = Existing P = Proposed	Use/Description	Dwelling Units	Complete for EXISTING development only.		
			To Be Removed (Y or N)	CO Date	Active (Y or N)

*Existing* means that development currently present on the property.

*Proposed* means the current development proposal planned on the property for which approval is being sought.

*Use* is a description of the purpose such as single-family, multifamily.

*Dwelling Units* is the form of measurement; number of dwelling units proposed.

*To Be Removed* section is completed only for a use that is EXISTING on the property. A “Y” for Yes is entered, if the existing use will be removed or replaced such as demolition, change of use, etc. A “N” for No is entered, if the existing use will remain on the property.

*CO Date* section is completed only for a use that is EXISTING on the property and is the date the certificate of occupancy was issued (month and year format i.e. 12/2008 or Dec 08).

*Active* section is completed only for a use that is EXISTING on the property. A “Y” for Yes is entered, if the use was in operation within 2 years of the date of application submittal. A “N” for No is entered, if the use was in operation for less than 2 years of the date of application submittal.

**Applicant Information** is the section containing the information for the current property owner and the agent/authorized representative to be contacted regarding the application.

**Owners Authorization Form** is a letter of consent from the property owner that must be completed and submitted with the application for an agent/authorized representative.

**Attachments** must be submitted with the application. Any required attachments not included with the application when submitted will result in the application being determined incomplete. An incomplete application will not be reviewed by the Department.

1. **Proof of ownership** can be provided by attaching a copy of the recorded deed or purchase agreement for the property.
2. **Legal description** is description of the property’s boundaries according to a survey. It is included in the recorded deed.
3. **Vicinity map** is map indicating the approximate location of the property, including road names.
4. **General site plan** is a drawing or survey that shows the property boundaries, access points, and all development, proposed and existing, on the property with notations indicating the use and density. For concurrency purposes, this plan is not required to be to scale.
5. **Phasing schedule** is a schedule of development on the property, which includes the phase number or name, the use, density, commencement date, and completion date.

**Phasing Schedule Example**

Phase	Use	Intensity	Date of	
			Commencement	Completion
1	Single family	250 DU	1/2009	1/2011
2	Multifamily	300 DU	2/2011	4/2013

Prepared by:  
Alexandra B. Griffin, Esq.  
Head, Moss, Fulton & Griffin, P.A.  
1530 Business Center Drive, Suite 4  
Fleming Island, Florida 32003

**QUITCLAIM DEED**

THIS INDENTURE, made this 6 day of February, 2020, by BMHB Ventures, LLC, a Florida limited liability company, conveying non homestead property, whose address is 1939 Silo Oaks Place, Middleburg, FL 32068, Fleming Island, Florida 32003 hereinafter called the Grantor, to John Nichols, as Trustee of the Graylon Oaks Land Trust, whose address is 1635 Eagle Harbor Pkwy # 4, Fleming Island, FL 32003, hereinafter called the Grantee,

**WITNESSETH:**

That said Grantor, for and in consideration of the sum of Ten and No/100 Dollars (\$10.00), and other good and valuable considerations to said Grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said Grantee, Grantee's heirs and assigns forever, the following described land, situate lying and being in Clay County, Florida, to wit:

See Exhibit "A" attached hereto  
Parcel ID Number: 380626-016742-000-00

Subject to Covenants, Restrictions and Easements of Record. Subject also to taxes for 2018 and subsequent years.

TO HAVE AND TO HOLD the same, together with all and singular the appurtenances hereunto belonging or in otherwise appertaining, and all the estate, right, title, interest, lien, equity and claim whatsoever of the said Grantors, either in law or equity, to the only proper use, benefit and behalf of the said Grantees forever.

NOTE: No title evidence was requested or furnished in connection with the preparation of this instrument and no opinion, expressed or implied, is intended by the above named scrivener.

Signatures of Grantors on Following Page



Prepared by:  
Alexandra B. Griffin, Esq.  
Head, Moss, Fulton & Griffin, P.A.  
1530 Business Center Drive, Suite 4  
Fleming Island, Florida 32003

IN WITNESS WHEREOF, Grantor has hereunto set its hand and seal the day and year first above written.

Signed, sealed and delivered  
in the presence of two witnesses:

Witness No. 1

BMHB Ventures, LLC, a Florida limited liability  
company

Witness Sign Name *ABG*  
Witness Print Name ABC Griffin

By: *[Signature]* (Seal)  
Brent White, Manager

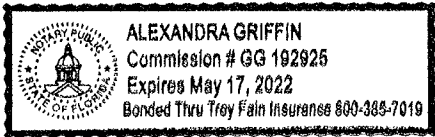
Witness No. 2

Witness Sign Name *Teresa Temple*  
Witness Print Name Teresa Temple

STATE OF FLORIDA

COUNTY OF Clay

The foregoing instrument was acknowledged before me by means of  physical presence or  online notarization this 6 day of February, 2020, by Brent White, as Manager BMHB Ventures LLC, a Florida limited liability company, on behalf of the company, who is (a)  personally known to me, or (b) \_\_\_\_\_ produced \_\_\_\_\_ as identification.



NOTARY PUBLIC

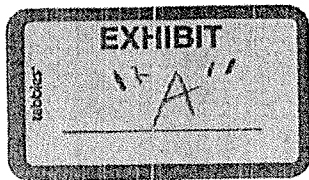
*[Signature]*  
Print Name: \_\_\_\_\_

State of Florida at Large

My Commission Expires: \_\_\_\_\_

parcel: 380626016742  
00000  
Lot "B"

Beginning at the SE corner of Henry Lenders land thence running Easterly six chains and thirty six links parallel with Clydeview Avenue to Vermont Avenue, thence along the West side of Vermont Avenue Northerly ninety-six feet, thence Westerly six chains and thirty-six links to H. Lenders East line, thence Southerly along Lenders East line one hundred feet to the place of beginning; containing one acre more or less, the same being a portion of a certain four acre lot conveyed by Wm. Thompson to Mrs. M.E. Bemis by deed dated December 21st, 1883, recorded in Book "L" pages 605 & 606 of the public records of Clay County, Florida.



Prepared by:  
Alexandra B. Griffin, Esq.  
Head, Moss, Fulton & Griffin, P.A.  
1530 Business Center Drive, Suite 4  
Fleming Island, Florida 32003

### QUIT CLAIM DEED

THIS INDENTURE, made this 6 day of February, 2020, by BMHB Ventures, LLC, a Florida limited liability company, as Trustee of the Clay County Land Trust #38-06-26-016742-000-00, dated October 30, 2013, conveying non homestead property, whose address is 1939 Silo Oaks Place, Middleburg, FL 32068, Fleming Island, Florida 32003 hereinafter called the Grantor, to John Nichols, as Trustee of the Graylon Oaks Land Trust, whose address is 1635 Eagle Harbor Pkwy # 4, Fleming Island, FL 32003, hereinafter called the Grantee,

### WITNESSETH:

That said Grantor, for and in consideration of the sum of Ten and No/100 Dollars (\$10.00), and other good and valuable considerations to said Grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said Grantee, Grantee's heirs and assigns forever, the following described land, situate lying and being in Clay County, Florida, to wit:

See Exhibit "A" attached hereto  
Parcel ID Number: 38-0626016748-000-00

Subject to Covenants, Restrictions and Easements of Record. Subject also to taxes for 2018 and subsequent years.

TO HAVE AND TO HOLD the same, together with all and singular the appurtenances hereunto belonging or in otherwise appertaining, and all the estate, right, title, interest, lien, equity and claim whatsoever of the said Grantors, either in law or equity, to the only proper use, benefit and behalf of the said Grantees forever.

NOTE: No title evidence was requested or furnished in connection with the preparation of this instrument and no opinion, expressed or implied, is intended by the above named scrivener.

Signatures of Grantors on Following Page

Prepared by:  
Alexandra B. Griffin, Esq.  
Head, Moss, Fulton & Griffin, P.A.  
1530 Business Center Drive, Suite 4  
Fleming Island, Florida 32003

IN WITNESS WHEREOF, Grantor has hereunto set its hand and seal the day and year first above written.

Signed, sealed and delivered  
in the presence of two witnesses:

Witness No. 1

Witness Sign Name [Signature]  
Witness Print Name ABG

BMHB Ventures, LLC, a Florida limited liability  
company, as Trustee of Clay County Land Trust #38-  
06-26-016742-000-00

By: [Signature] (Seal)  
Brent White, Manager

Witness No. 2

Witness Sign Name Teresa Temple  
Witness Print Name Teresa Temple

STATE OF FLORIDA

COUNTY OF Clay

The foregoing instrument was acknowledged before me by means of  physical presence or  online  
notarization this 6 day of February, 2020, by Brent White, as Manager BMHB Ventures LLC, a  
Florida limited liability company, as Trustee of Clay County Land Trust #38- 06-26-016742-000-00  
on behalf of the land trust, who is (a)  personally known to me, or (b)  produced  
\_\_\_\_\_ as identification.



NOTARY PUBLIC

[Signature]

Print Name: \_\_\_\_\_

State of Florida at Large

My Commission Expires: \_\_\_\_\_

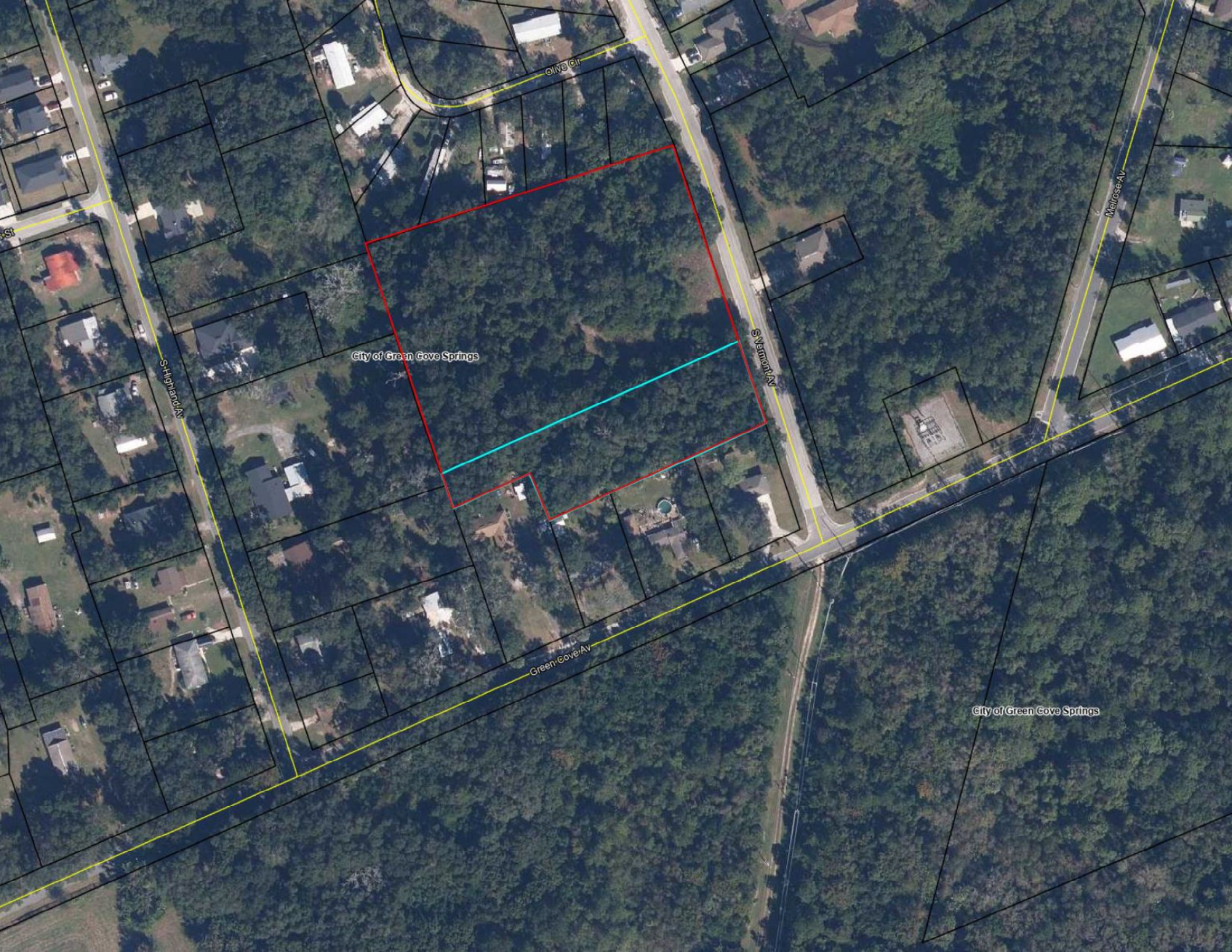
parcel :  
380626 016748  
000 00  
Lot C

EXHIBIT "A"

A PARCEL OF LAND SITUATED IN LOT "C", BLOCK 102, PALMER AND FERRIS TRACT, GREEN COVE SPRINGS, CLAY COUNTY, FLORIDA, ACCORDING TO PLAT THEREOF RECORDED IN PLAT BOOK 1, PAGE 44 OF THE PUBLIC RECORDS OF CLAY COUNTY, FLORIDA, SAID PARCEL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHEAST CORNER OF LOT 1, ST. JOHNS MOBILE HOME VILLAGE, ACCORDING TO PLAT THEREOF RECORDED IN PLAT BOOK 7, PAGE 32 OF SAID PUBLIC RECORDS; THENCE ON THE WEST LINE OF VERMONT STREET RUN SOUTH 20 DEGREES 17 MINUTES 22 SECONDS EAST, 278.73 FEET TO THE SOUTH LINE OF SAID LOT "C", THENCE ON SAID SOUTH LINE, SOUTH 64 DEGREES 00 MINUTES 00 SECONDS WEST, 429.41 FEET TO THE WEST LINE OF SAID LOT "C"; THENCE ON SAID WEST LINE, NORTH 20 DEGREES 14 MINUTES 51 SECONDS WEST, 326.09 FEET TO THE SOUTH LINE OF SAID ST. JOHNS MOBILE HOME VILLAGE; THENCE ON SAID SOUTH LINE, NORTH 70 DEGREES 19 MINUTES 51 SECONDS EAST, 427.07 FEET TO THE POINT OF BEGINNING.

BEING 2.97 ACES MORE OR LESS IN AREA.



Elm Cir

St. Helens Av

City of Green Cove Springs

S. Veterans Av

Melrose Av

Green Cove Av

City of Green Cove Springs



LEGAL DESCRIPTION AS SHOWN OFFICIAL RECORD BOOK 2815, PAGE 524

A PARCEL OF LAND SITUATED IN LOT "C", BLOCK, 102, PALMER AND FERRIS TRACT, GREEN COVE SPRINGS, CITY COUNTY, FLORIDA, ACCORDING TO PLAT THEREOF RECORDED IN PLAT BOOK 1, PAGE 44 OF THE PUBLIC RECORDS OF CLAY COUNTY, FLORIDA, SAID PARCEL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:  
 BEGIN AT THE SOUTHEAST CORNER OF LOT 1, ST. JOHNS MOBILE HOME VILLAGE. ACCORDING TO PLAT THEREOF RECORDED IN PLAT BOOK 7, PAGE 32 OFF SAID PUBLIC RECORDS, ; THENCE ON THE WEST LINE OF VERMONT STREET RUN SOUTH 20 DEGREES 17 MINUTES 22 SECONDS EAST, 278.73 FEET TO THE SOUTH LINE OF SAID LOT "C"; THENCE ON SAID SOUTH LINE, SOUTH 64 DEGREE 00 MINUTES 00 SECONDS WEST, 429.41 FEET TO THE WEST LINE OF SAID LOT "C"; THENCE ON SAID WEST LINE, NORTH 20 DEGREE 14 MINUTES 51 SECONDS WEST 326.09 FEET TO THE SOUTH LINE OF SAID ST. JOHNS MOBILE HOME VILLAGE; THENCE ON SAID SOUTH LINE, NORTH 70 DEGREES 19 MINUTES 51 SECONDS EAST, 427.07 FEET TO THE POINT OF BEGINNING.

BEGINNING AT THE SE CORNER OF HENRY LENDERS LAND THENCE RUNNING EASTERLY SIX CHAINS AND THIRTY SIX LINKS PARALLEL WITH C10DEVIEW AVENUE TO VERMONT AVENUE. THENCE ALONG THE WEST SIDE OF VERMONT AVENUE NORTHERLY NINETY-SIX FEET, THENCE WESTERLY SIX CHAINS AND THIRTY-SIX LINKS TO H. LENDERS EAST LINE, THENCE SOUTHERLY ALONG LENDERS EAST LINE ONE HUNDRED FEET TO THE PLACE OF BEGINNING; CONTAINING ONE ACRE MORE OR LESS, THE SAME BEING A PORTION OF A CERTAIN FOUR ACRE LOT CONVEYED BY WM. THOMPSON CO MRS. M.E. BEMIS BY DEED DATED DECEMBER 21ST, 1883, RECORDED IN BOOK "L" PAGES 605 & 606 OF THE PUBLIC RECORDS OF CLAY COUNTY, FLORIDA.

LESS EXCEPT OFFICIAL RECORDS BOOK 3331, PAGE 1520, PARCEL 1

A PARCEL OF LAND SITUATED IN LOT "A" AND LOT "B", BLOCK 102, PALMER AND FERRIS TRACT, IN THE TOWN OF GREEN COVE SPRINGS, CLAY COUNTY, FLORIDA, ACCORDING TO PLAT THEREOF RECORDED IN PLAT BOOK 2, PAGE 1 OF THE PUBLIC RECORDS OF SAID COUNTY, SAID PARCEL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF SAID LOT "A", BLOCK 102, PALMER AND FERRIS TRACT IN THE TOWN OF GREEN COVE SPRINGS, AND RUN NORTH 64 DEGREES 00 MINUTES 00 SECONDS EAST, ALONG THE SOUTH LINE OF LOT "A", WHICH IS ALSO THE SOUTH LINE OF THE TOWN OF GREEN COVE SPRINGS, FOR A DISTANCE OF 79.83 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE ON LAST SAID LINE NORTH 64 DEGREES 00 MINUTES 00 SECONDS EAST, 30.17 FEET; THENCE NORTH 20 DEGREES 00 MINUTES 00 SECONDS WEST, 211.16 FEET; THENCE SOUTH 64 DEGREES 00 MINUTES 00 SECONDS WEST, 110.21 FEET TO THE WEST LINE OF SAID LOT "B"; THENCE ON LAST SAID LINE, AND ON THE WEST LINE OF SAID LOT "A", SOUTH 20 DEGREES 00 MINUTES 00 SECONDS EAST, 100.55 FEET; THENCE NORTH 64 DEGREES 00 MINUTES 00 SECONDS EAST, 79.83 FEET; THENCE SOUTH 20 DEGREES 00 MINUTES 00 SECONDS EAST, 110.61 FEET TO THE POINT OF BEGINNING.

# GRAYLON OAKS (PUBLIC ROADS) FOR GRAYLON OAKS LAND TRUST

VERMONT AVENUE  
GREEN COVE SPRINGS, FLORIDA

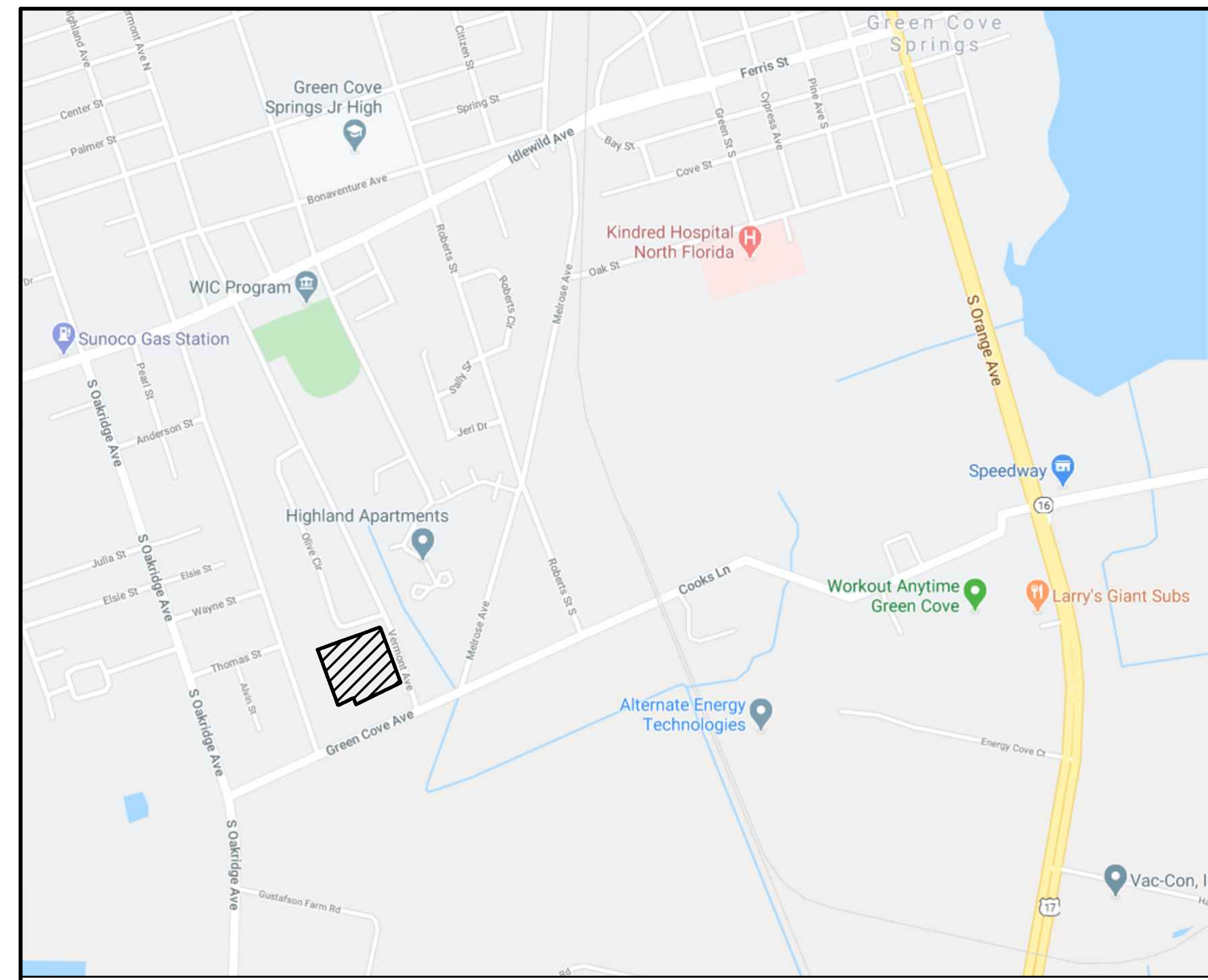
PROJECT OWNER AND CONSULTANTS

**OWNER:** GRAYLON OAKS LAND TRUST  
 4279 CEDAR ROAD  
 ORANGE PARK, FLORIDA 32065  
**CONTACT:** BRENT WHITE  
 TEL: (904) 219-8358

**ENGINEER:** DOMINION ENGINEERING GROUP, INC.  
 4348 SOUTHPPOINT BLVD, SUITE 201  
 JACKSONVILLE, FLORIDA 32216  
**CONTACT:** MIKE BOWLES  
 TEL: (904) 854-4500 FAX: (904) 854-4505

**LANDSCAPE:** GODARD DESIGN ASSOCIATES, INC  
 541 OLEANDER STREET  
 NEPTUNE BEACH, FLORIDA 32266  
**CONTACT:** BRETT GODARD  
 TEL: (904) 247-7729

**SURVEYOR:** BARTRAM TRAIL SURVEYING, INC.  
 1501 COUNTY ROAD 315, SUITE 106  
 GREEN COVE SPRINGS, FL 32043  
**CONTACT:** XXXXXXXX  
 TEL: (904) 284-2224

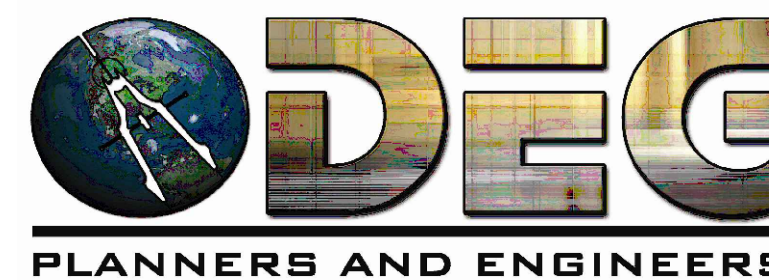


**LOCATION MAP**  
N.T.S.



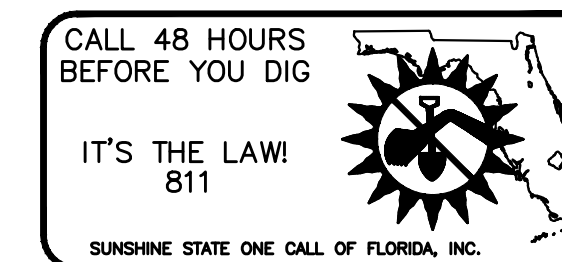
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REGISTRY No. 26821

PIN # 38-06-26-016748-000-00



REVISIONS	
FDEP 10-2 SUBMITTAL	06/15/2020
BID SET	08/18/2020
COUNTY SUBMITTAL 1	12/15/2020
COUNTY SUBMITTAL 2	01/11/2022
COUNTY SUBMITTAL 3	06/03/2022
COUNTY SUBMITTAL 3	08/08/2022

WILLIAM E SCHAEFER, P.E.  
 FLA. REGISTERED ENGINEER # 40229

DEG JOB No. 2103.007 (GRAYLON OAKS)





**DOMINION ENGINEERING GROUP, INC.**

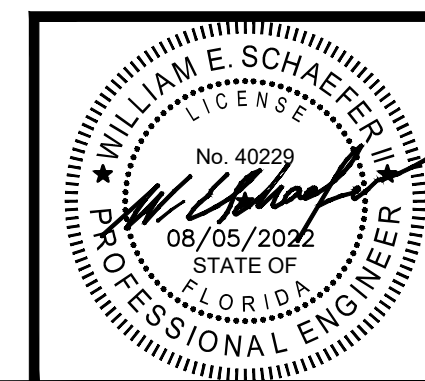
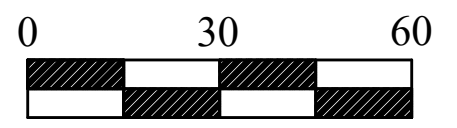
PLANNERS AND ENGINEERS  
4348 SOUTHPOINT BLVD, SUITE 204, JACKSONVILLE, FLORIDA 32216  
TEL: 904-854-4500 C.A. NUMBER: 26821 FAX 904-854-4505  
www.dom-eng.com

**GRAYLAN OAKS  
FOR  
GRAYLAN OAKS LAND TRUST  
PRE DEVELOPMENT PLAN**

**REVISIONS**

NO.	DATE	DESCRIPTION

PLOT DATE:  
DRAWN BY: JMM  
DESIGNED BY: WES  
CHECKED BY: WES  
SCALE: AS NOTED  
JOB NO.:  
© LATEST DATE HEREON  
SHEET NO.  
**C1**  
OF

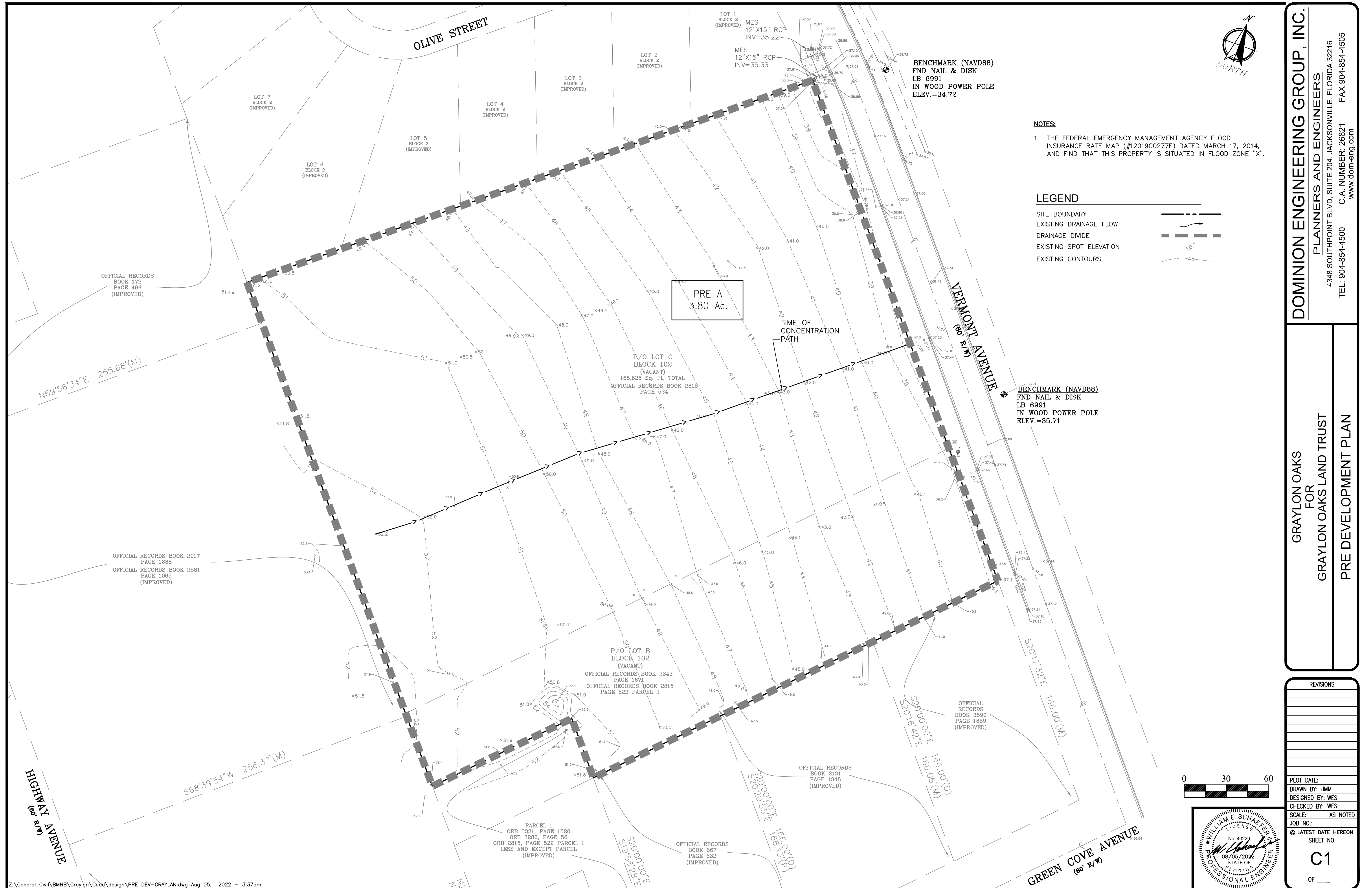


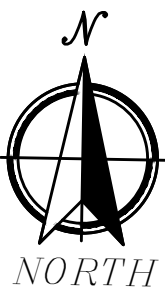
**NOTES:**

1. THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP (#12019C0277E) DATED MARCH 17, 2014, AND FIND THAT THIS PROPERTY IS SITUATED IN FLOOD ZONE "X".

**LEGEND**

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





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**GRAYLON OAKS  
 FOR  
 GRAYLON OAKS LAND TRUST**  
**GEOMETRY PLAN**

**LEGEND**

SITE BOUNDARY	---
PROPOSED PAVEMENT	▬▬▬
EXISTING PAVEMENT	▬▬▬▬▬
RADIUS	R
POINT OF CURVATURE	P.C.
POINT OF INTERSECTION	P.I.
POINT OF TANGENCY	P.T.
PRIVATE UNOBSTRUCTED DRAINAGE EASEMENT	PUDE
PUBLIC UNOBSTRUCTED DRAINAGE EASEMENT	UDE
UNOBSTRUCTED DRAINAGE ACCESS EASEMENT	UDAE
STOP SIGN (R1-1)/STREET NAME	SS/SB
SIGN COMBO & 24" WIDE WHITE EXTRUDED THERMOPLASTIC STOP BAR	

**GENERAL NOTES**

- BOUNDARY INFORMATION AND TOPOGRAPHIC DATA PROVIDED BY BARTRAM TRAIL SURVEYING, INC.
- FOR LOT LINE LOCATIONS, REFER TO PLAT PREPARED BY BARTRAM TRAIL SURVEYING, INC.
- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED ON PLANS.
- ALL CROSSWALKS SHALL BE 12" WIDE SOLID WHITE.
- ALL TRAFFIC SIGNS AND PAVEMENT MARKINGS SHALL COMPLY WITH THE FDOT STANDARDS FOR SIGN FACE REFLECTIVITY AND SHALL COMPLY WITH THE STANDARD SPECIFICATIONS OF THE CLAY COUNTY TRAFFIC OPERATIONS DIVISION.
- SEE SHEET C6 FOR TYPICAL ROADWAY SECTIONS.
- SITE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SIDEWALK WITHIN COMMON AREAS AND ALL HANDICAP RAMPS.
- ALL STREET SIGNS SHALL BE LOCATED ON TEE POST ON TOP OF STOP SIGNS.
- INSTALL CAST IN PLACE DETECTABLE WARNINGS FOR ALL ADA SIDEWALK RAMPS

**SITE INFORMATION**

TOTAL AREA = 3.84 Ac.  
 TOTAL LOTS = 14

**SET BACKS**

FRONT PORCH = 15'  
 FRONT FACADE = 20'  
 SIDE YARD = 7.5'; COMBINED 15'  
 REAR YARD = 10'  
 MAX BUILDING HEIGHT (PRIMARY STRUCTURES) = 35'

- \* LOT 6 FRONT SETBACK WILL BE 30'
- \*\* LOT 9 FRONT SETBACK WILL BE 27.5'
- \*\*\* LOT 5 FRONT SETBACK WILL BE 25'

**ALIGNMENT LINES**

L#	DISTANCE	BEARING
L1	24.59	S69°56'37"W
L2	151.61	S64°02'10"W
L3	41.99	N40°17'03"W
L4	19.34	N20°14'08"W
L5	74.92	N2°17'00"E

**ALIGNMENT CURVE**

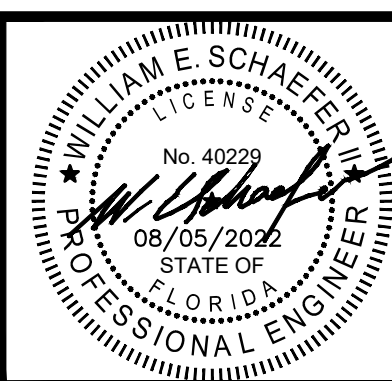
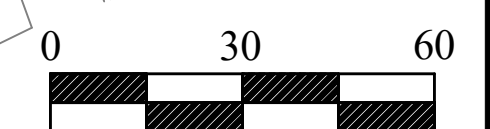
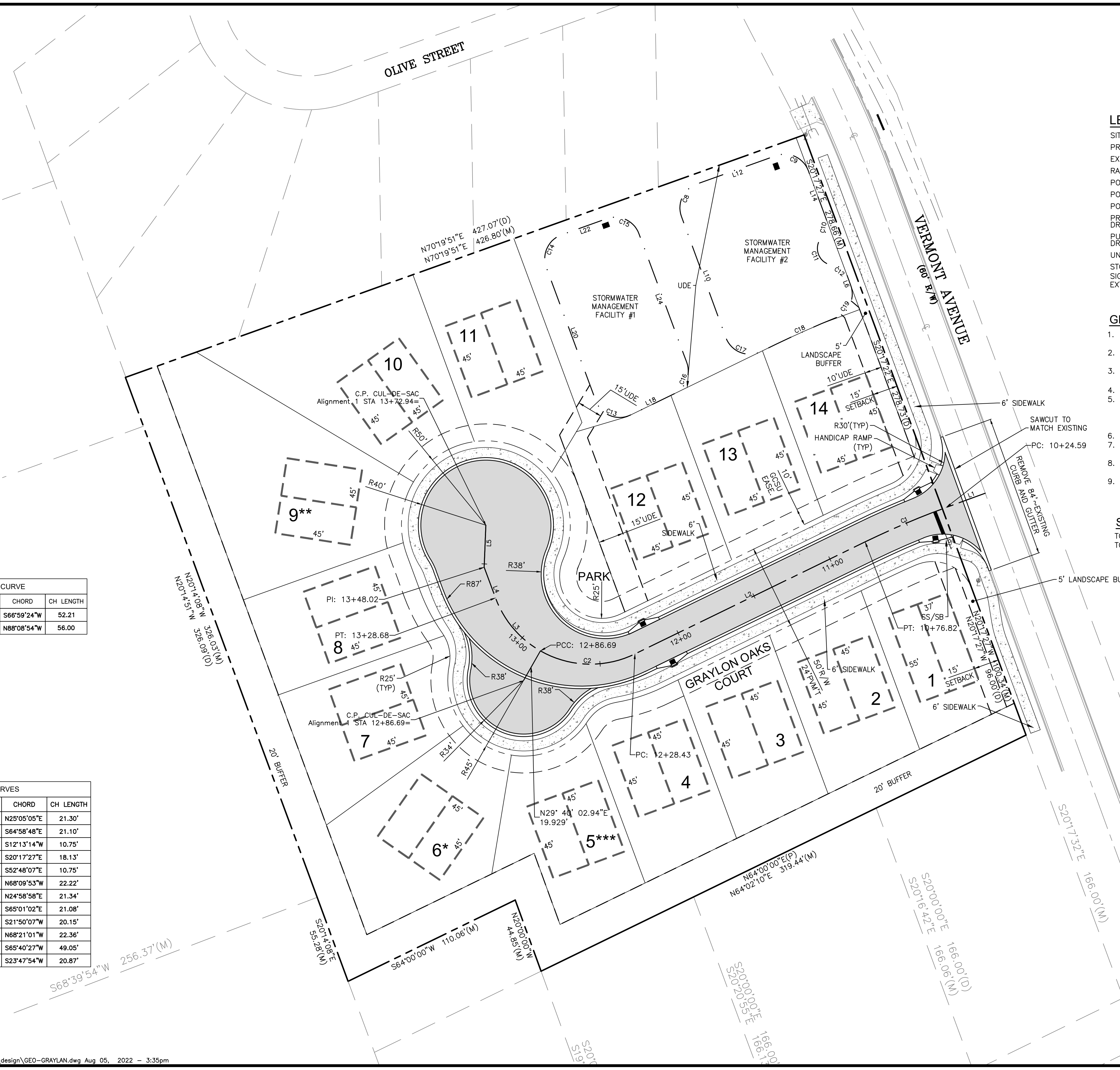
C#	LENGTH	RADIUS	DELTA	CHORD	CH LENGTH
C1	52.23	506.60	5.9075	S66°59'24"W	52.21
C2	58.26	60.00	55.6314	N88°08'54"W	56.00

**SWMF LINES**

L#	DISTANCE	BEARING
L6	5.68'	S20°17'27"E
L10	76.37'	N20°09'40"W
L12	49.92'	N70°19'51"E
L14	30.35'	S20°17'27"E
L18	28.52'	S64°02'10"W
L20	84.35'	N20°21'56"W
L22	28.38'	N70°19'51"E

**SWMF CURVES**

C#	LENGTH	RADIUS	DELTA	CHORD	CH LENGTH
C8	23.69'	15.00'	90.49	N25°05'05"E	21.30'
C9	23.40'	15.00'	89.38	S64°58'48"E	21.10'
C10	11.35'	10.00'	65.02	S12°13'14"W	10.75'
C11	22.70'	10.00'	130.05	S20°17'27"E	18.13'
C12	11.35'	10.00'	65.02	S52°48'07"E	10.75'
C13	25.03'	15.00'	95.60	N68°09'53"W	22.22'
C14	23.74'	15.00'	90.70	N24°58'58"E	21.34'
C15	23.38'	15.00'	89.30	S65°01'02"E	21.08'
C16	22.10'	15.00'	84.40	S21°50'07"W	20.15'
C17	25.23'	15.00'	96.38	N68°21'01"W	22.36'
C18	49.06'	635.00'	4.43	S65°40'27"W	49.05'
C19	23.09'	15.00'	88.18	S23°47'54"W	20.87'

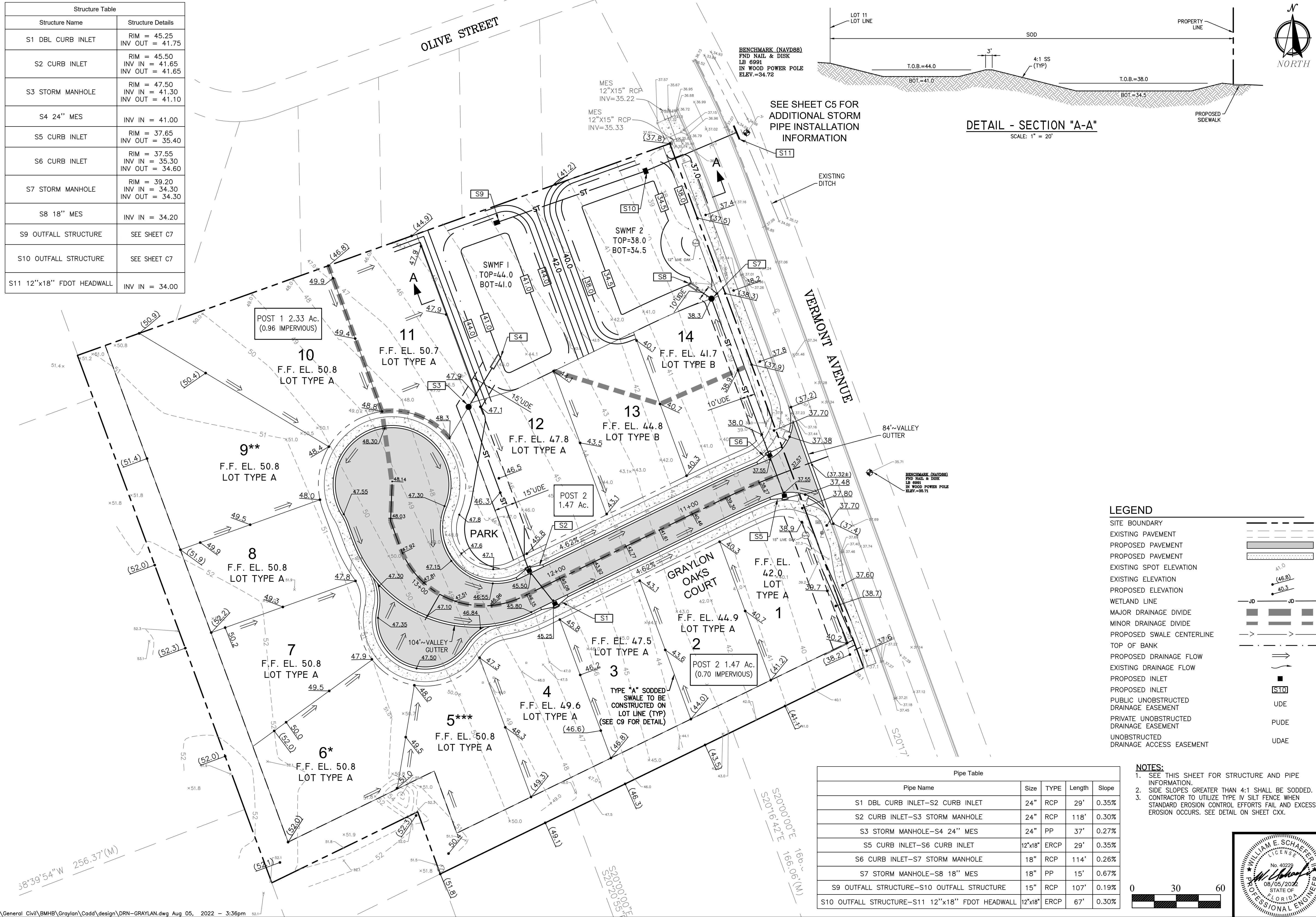


**REVISIONS**

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**C2**  
 OF

Structure Table	
Structure Name	Structure Details
S1 DBL CURB INLET	RIM = 45.25 INV OUT = 41.75
S2 CURB INLET	RIM = 45.50 INV IN = 41.65 INV OUT = 41.65
S3 STORM MANHOLE	RIM = 47.50 INV IN = 41.30 INV OUT = 41.10
S4 24" MES	INV IN = 41.00
S5 CURB INLET	RIM = 37.65 INV OUT = 35.40
S6 CURB INLET	RIM = 37.55 INV IN = 35.30 INV OUT = 34.60
S7 STORM MANHOLE	RIM = 39.20 INV IN = 34.30 INV OUT = 34.30
S8 18" MES	INV IN = 34.20
S9 OUTFALL STRUCTURE	SEE SHEET C7
S10 OUTFALL STRUCTURE	SEE SHEET C7
S11 12"x18" FDOT HEADWALL	INV IN = 34.00

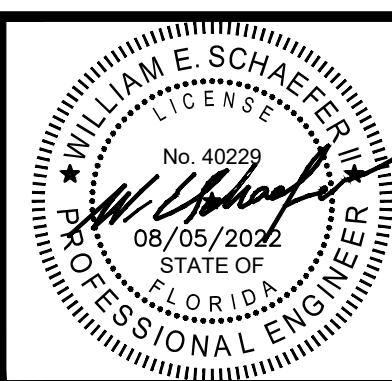


Pipe Table				
Pipe Name	Size	TYPE	Length	Slope
S1 DBL CURB INLET-S2 CURB INLET	24"	RCP	29'	0.35%
S2 CURB INLET-S3 STORM MANHOLE	24"	RCP	118'	0.30%
S3 STORM MANHOLE-S4 24" MES	24"	PP	37'	0.27%
S5 CURB INLET-S6 CURB INLET	12"x18"	ERCP	29'	0.35%
S6 CURB INLET-S7 STORM MANHOLE	18"	RCP	114'	0.26%
S7 STORM MANHOLE-S8 18" MES	18"	PP	15'	0.67%
S9 OUTFALL STRUCTURE-S10 OUTFALL STRUCTURE	15"	RCP	107'	0.19%
S10 OUTFALL STRUCTURE-S11 12"x18" FDOT HEADWALL	12"x18"	ERCP	67'	0.30%

**LEGEND**

- SITE BOUNDARY
- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- EXISTING SPOT ELEVATION
- PROPOSED ELEVATION
- WETLAND LINE
- MAJOR DRAINAGE DIVIDE
- MINOR DRAINAGE DIVIDE
- PROPOSED SWALE CENTERLINE
- TOP OF BANK
- PROPOSED DRAINAGE FLOW
- EXISTING DRAINAGE FLOW
- PROPOSED INLET
- PROPOSED INLET
- PUBLIC UNOBSTRUCTED DRAINAGE EASEMENT
- PRIVATE UNOBSTRUCTED DRAINAGE EASEMENT
- UNOBSTRUCTED DRAINAGE ACCESS EASEMENT

- NOTES:**
- SEE THIS SHEET FOR STRUCTURE AND PIPE INFORMATION.
  - SIDE SLOPES GREATER THAN 4:1 SHALL BE SODDED. CONTRACTOR TO UTILIZE TYPE IV SILT FENCE WHEN STANDARD EROSION CONTROL EFFORTS FAIL AND EXCESSIVE EROSION OCCURS. SEE DETAIL ON SHEET CXX.



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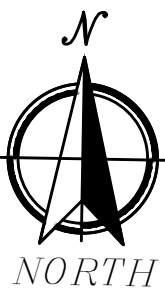
GRAYLON OAKS  
 FOR  
 GRAYLON OAKS LAND TRUST  
 PAVING AND DRAINAGE PLAN

**REVISIONS**

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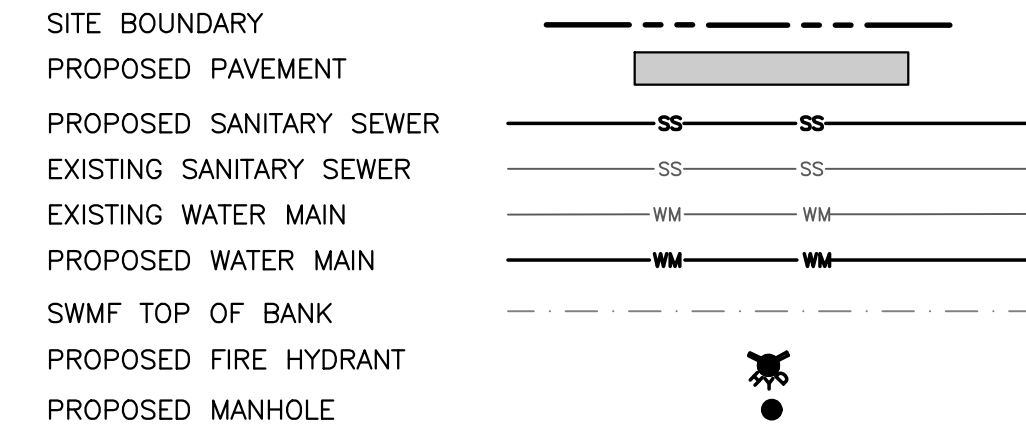
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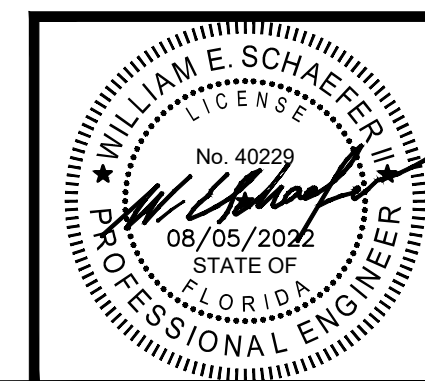
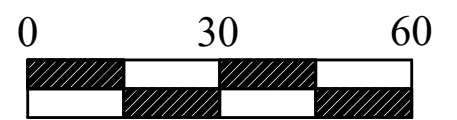
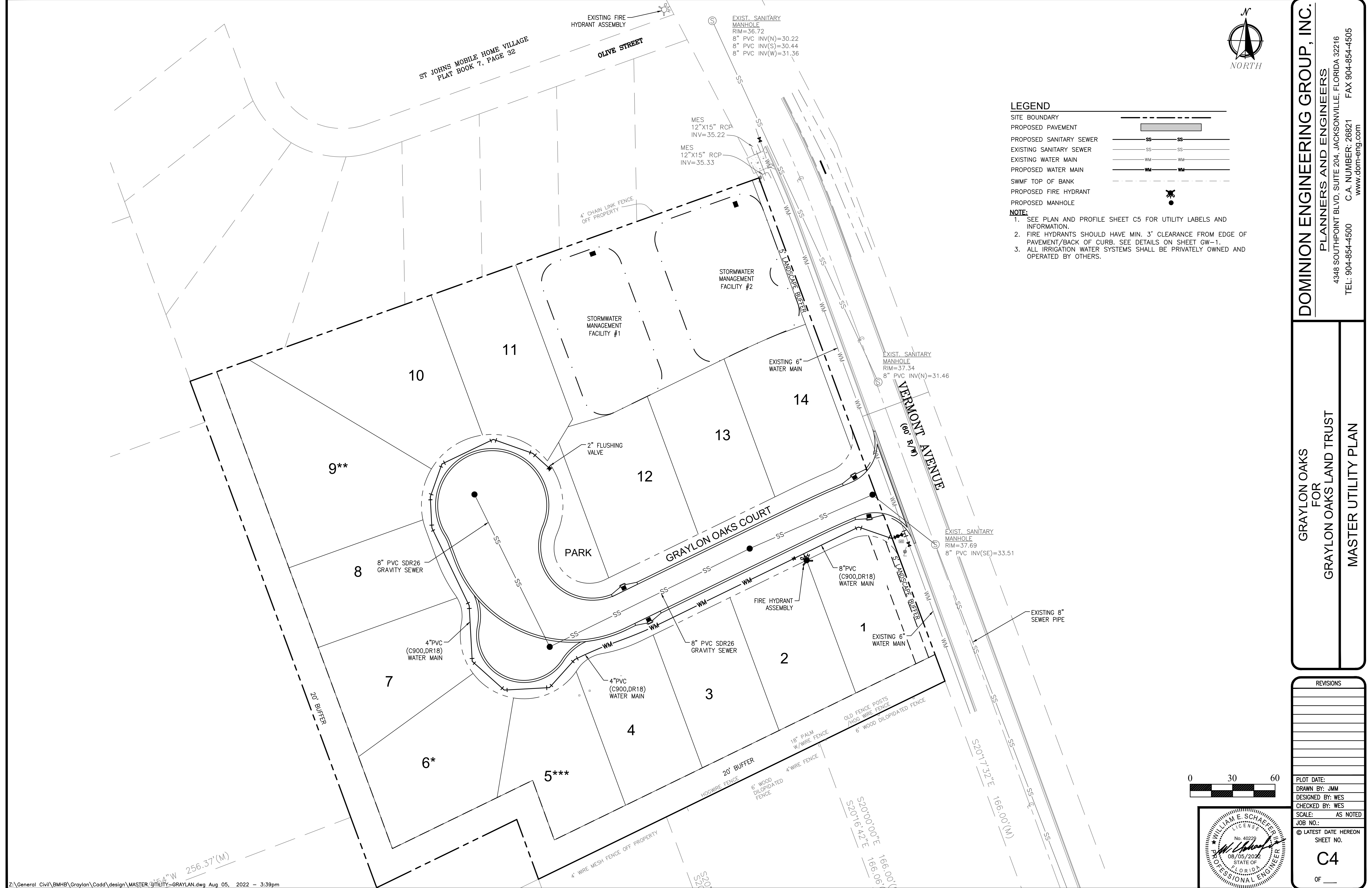
GRAYLON OAKS  
FOR  
GRAYLON OAKS LAND TRUST  
MASTER UTILITY PLAN

**LEGEND**



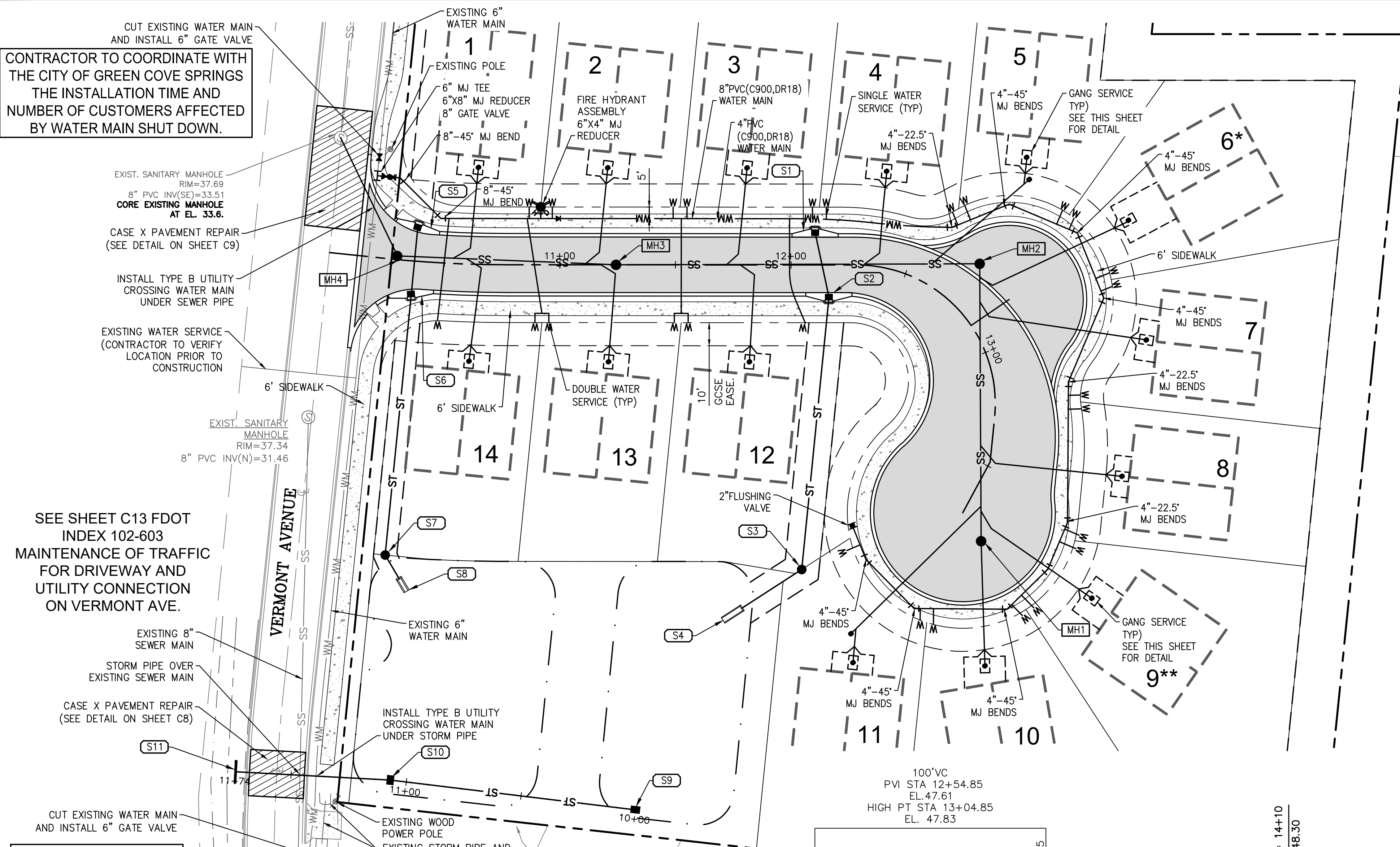
**NOTE:**

- 1. SEE PLAN AND PROFILE SHEET C5 FOR UTILITY LABELS AND INFORMATION.
- 2. FIRE HYDRANTS SHOULD HAVE MIN. 3' CLEARANCE FROM EDGE OF PAVEMENT/BACK OF CURB. SEE DETAILS ON SHEET GW-1.
- 3. ALL IRRIGATION WATER SYSTEMS SHALL BE PRIVATELY OWNED AND OPERATED BY OTHERS.



REVISIONS

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**C4**  
OF



**LEGEND**

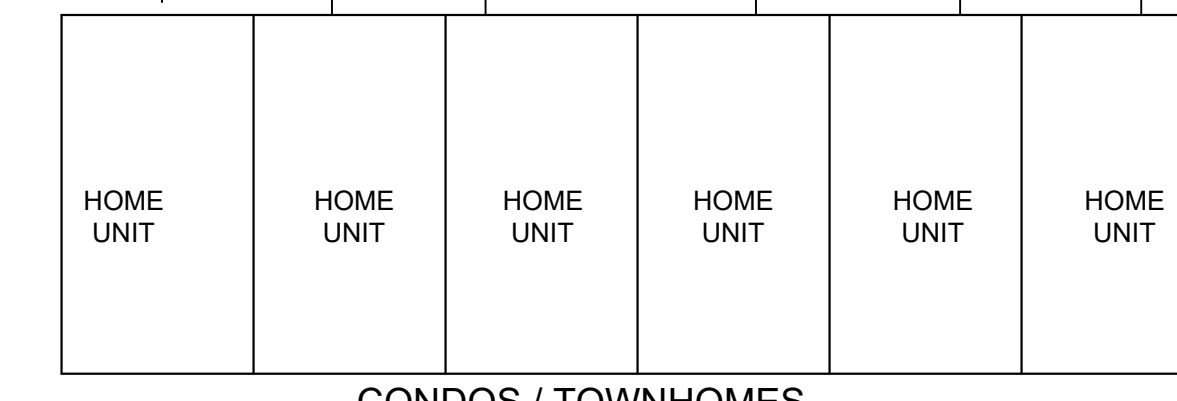
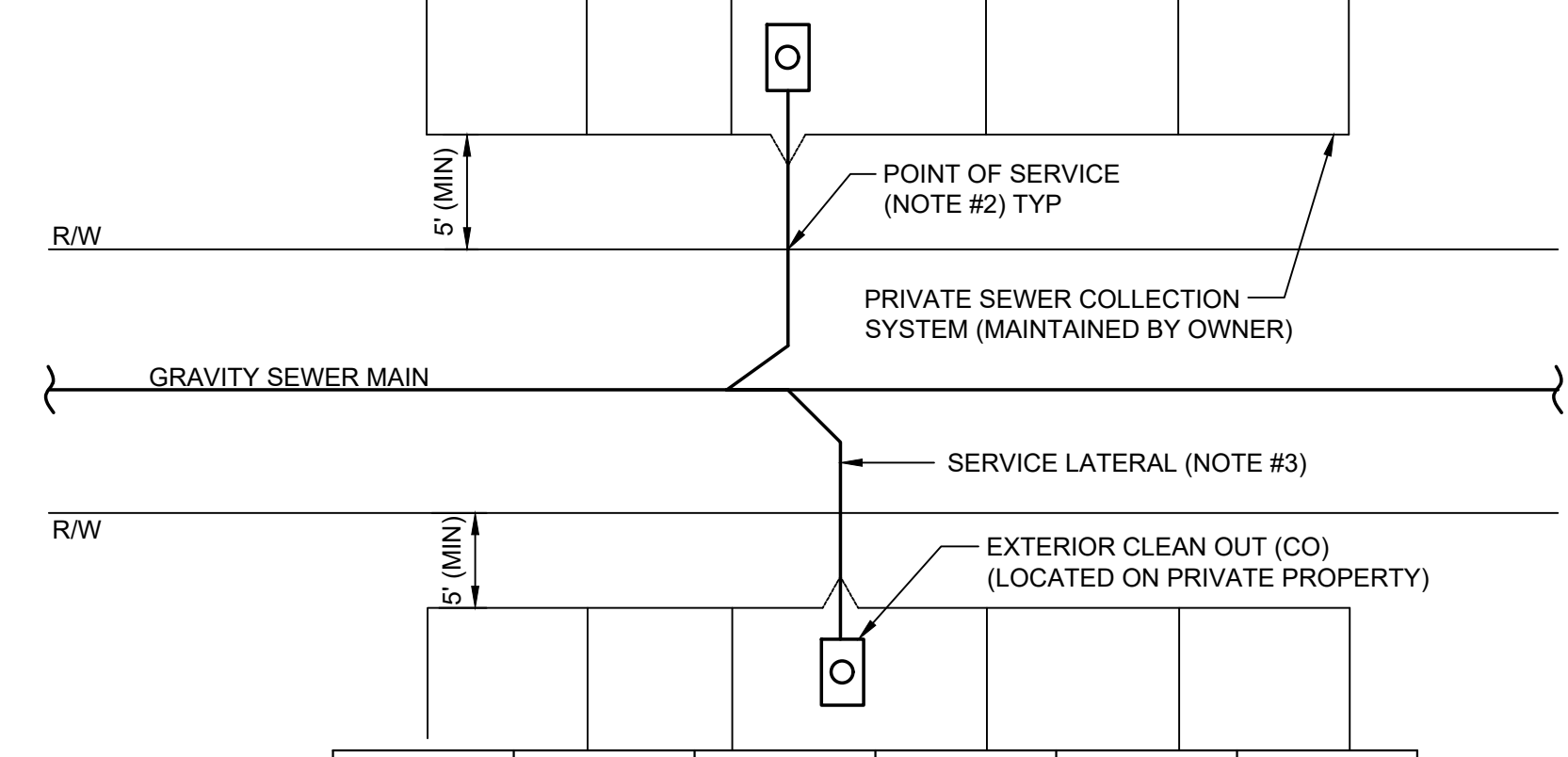
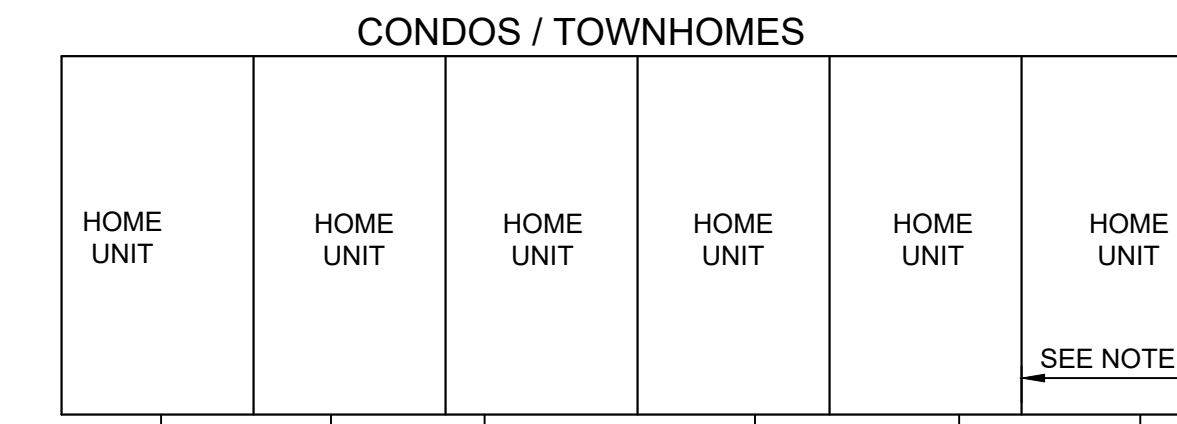
- PROPOSED PAVEMENT
- EASEMENT
- PROPOSED STORM WATER
- PROPOSED SANITARY SEWER
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- PROPOSED FIRE HYDRANT
- PROPOSED WATER METER
- PROPOSED GATE VALVE
- PROPOSED REDUCER
- PROPOSED SEWER MANHOLE
- STORM WATER STRUCTURE
- PROPOSED SANITARY SEWER MANHOLE
- SOIL BORING
- SAMPLING POINT

- WATER AND SEWER NOTES**
1. ALL WATER AND SEWER CONSTRUCTION SHALL COMPLY WITH THE LATEST CITY OF GREEN COVE SPRINGS CONSTRUCTION STANDARDS AND SPECIFICATIONS.
  2. MAINTAIN A MINIMUM OF 3' HORIZONTAL SEPARATION BETWEEN STORMWATER STRUCTURES & WATER MAIN.
  3. CONTRACTOR TO VERIFY ALL EXISTING UTILITIES LOCATION AND ELEVATIONS PRIOR TO CONSTRUCTION. CONTRACTOR TO IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES

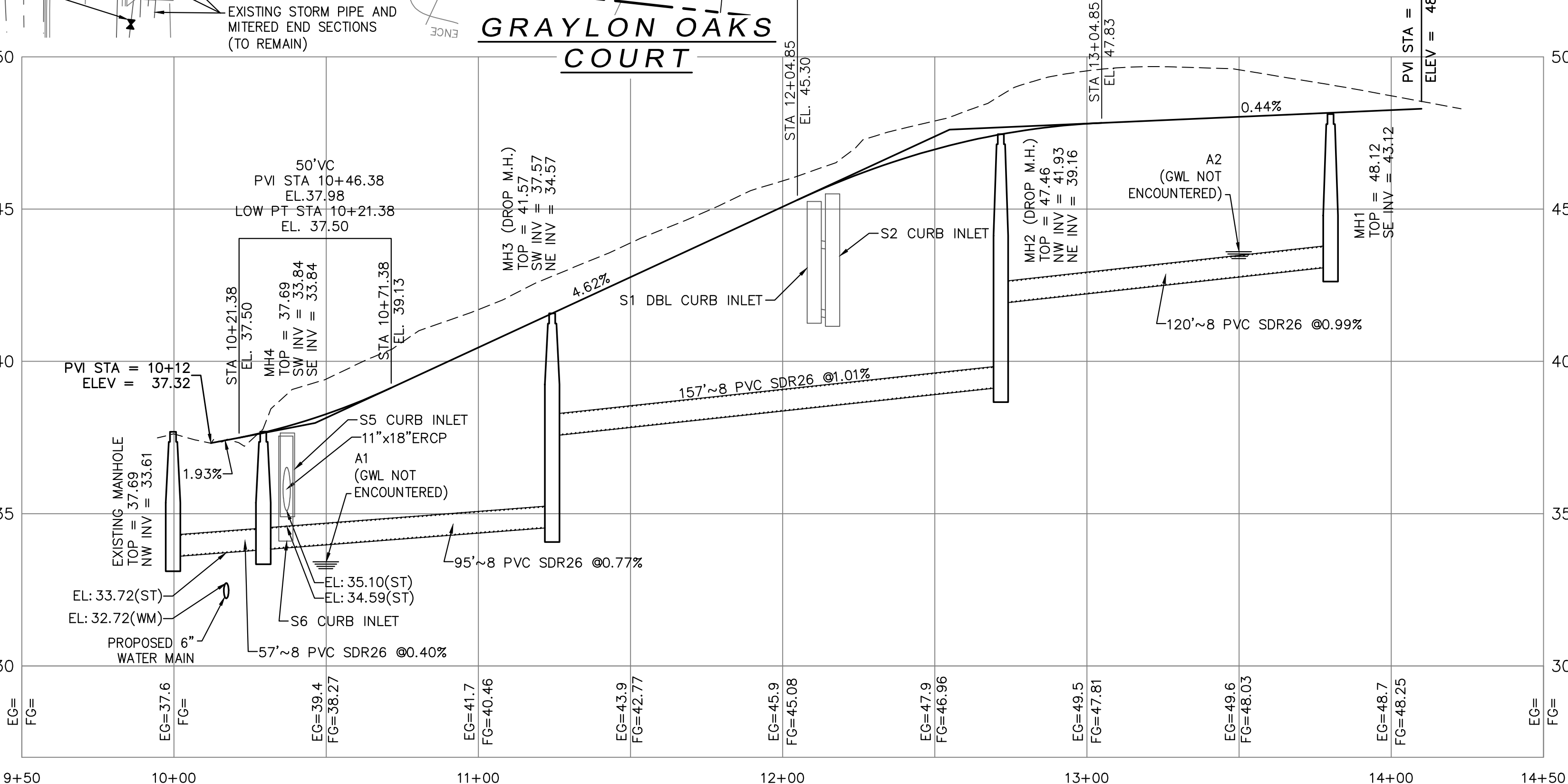
CONTRACTOR TO COORDINATE WITH THE CITY OF GREEN COVE SPRINGS THE INSTALLATION TIME AND NUMBER OF CUSTOMERS AFFECTED BY WATER MAIN SHUT DOWN.

SEE SHEET C13 FDOT INDEX 102-603 MAINTENANCE OF TRAFFIC FOR DRIVEWAY AND UTILITY CONNECTION ON VERMONT AVE.

CONTRACTOR TO COORDINATE WITH THE CITY OF GREEN COVE SPRINGS THE INSTALLATION TIME AND NUMBER OF CUSTOMERS AFFECTED BY WATER MAIN SHUT DOWN.

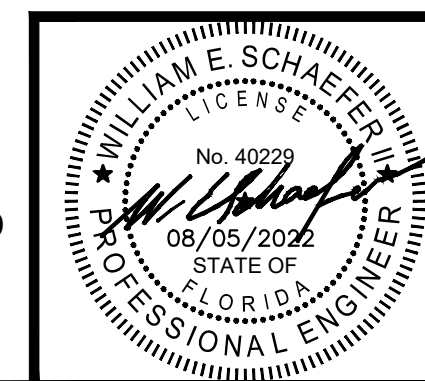
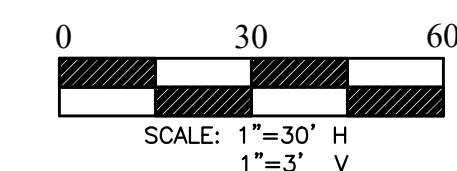


**GANG SEWER SERVICES**



- NOTES:**
1. THIS STANDARD MAY APPLY TO CONDOS AND/OR TOWNHOMES WITH PRIVATE LOT LINES LESS THAN 40 FEET WIDE.
  2. THE "POINT OF SERVICE" (POS) SHALL BE DEFINED AT THE R/W LINE FOR ALL LATERALS. GREEN COVE SPRINGS WILL ONLY BE RESPONSIBLE FOR O&M (EXCLUDING STOPPAGES) BEGINNING AT THE P.O.S. TO THE MAIN (60 FEET MAX). THEREFORE, O&M RESPONSIBILITY BETWEEN THE P.O.S. AND THE CUSTOMER IS BY OTHER (HOME OWNER ASSOCIATION OR OTHER). CUSTOMER WILL CONTINUE TO BE RESPONSIBLE FOR FREE FLOW OF SEWAGE BETWEEN CUSTOMER TO MAIN.
  3. SERVICE LATERALS BETWEEN MAIN AND R/W SHALL BE 6" SDR-26 (PVC) AT 1/4" SLOPE, AT A MINIMUM, AND SERVE A MAXIMUM OF 6 HOME UNITS. ENGRAVE AN "S" IN CURB TO SHOW LOCATION OF LATERAL. MANHOLE SHALL BE REQUIRED AT THE MAIN IF THE LATERAL IS LARGER THAN 6 INCH SIZE. LARGER LATERALS SHALL BE SIZED BY DESIGN ENGINEER. ALL PIPING ON PRIVATE PROPERTY SHALL MEET LOCAL PLUMBING CODE REQUIREMENTS AND BE MAINTAINED BY OWNER. ALL CLEANOUTS LOCATED IN PAVED AREAS SHALL BE CAST IRON FRAME AND TOP.

**GANG SEWER SERVICES FOR CONDOS AND TOWNHOMES**



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**GRAYLAN OAKS FOR GRAYLAN OAKS LAND TRUST**  
 PLAN AND PROFILE

**REVISIONS**

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**C5**  
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ST JOHN'S MOBILE HOME VILLAGE  
PLAT BOOK 7, PAGE 32

OLIVE STREET

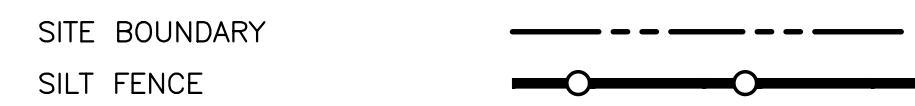
MES  
12"X15" RCP  
INV=35.22  
MES  
12"X15" RCP  
INV=35.33

15'~SILT FENCE

**GENERAL NOTES**

1. NO CLEARING SHALL BEGIN UNTIL SILT FENCE INSTALLED.
2. SILT FENCE SHALL BE INSTALLED AS SHOWN ON PLAN

**LEGEND**



425'~SILT FENCE

STORMWATER  
MANAGEMENT  
FACILITY #2

STORMWATER  
MANAGEMENT  
FACILITY #1

215'~SILT FENCE

10

11

14

13

9

12

VERMONT AVENUE  
(60' R/W)

GRAYLON OAKS COURT

PARK

INLET PROTECTION (TYP)  
SEE SHT. C12 FOR DETAILS

STABILIZED CONSTRUCTION  
ENTRANCE  
(SEE DETAIL ON SHT C12)

8

20' BUFFER

115'~SILT FENCE

325'~SILT FENCE

7

3

2

4

20' BUFFER

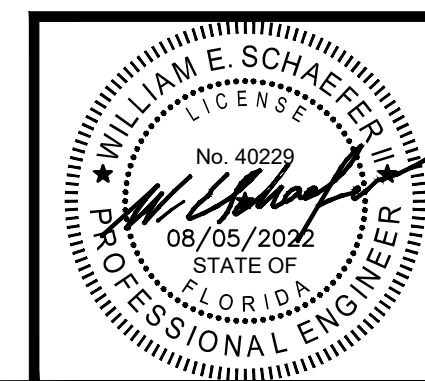
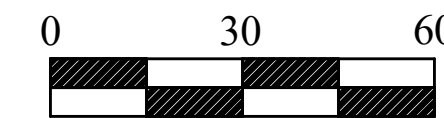
6

5

380'~SILT FENCE

54'~W 256.37'(M)

S20°00'00" E 166.00'(D)  
S20°16'24" E 169.09'(M)  
S20°01'00" E 166.00'(D)  
S20°17'32" E 166.00'(M)

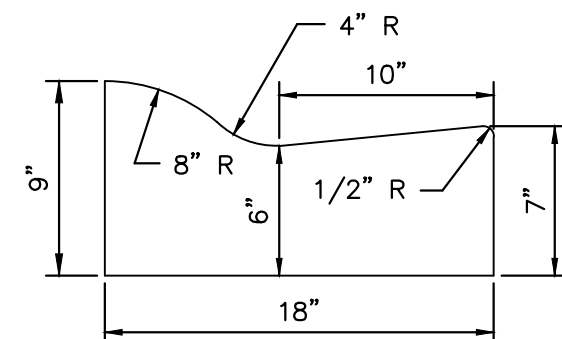
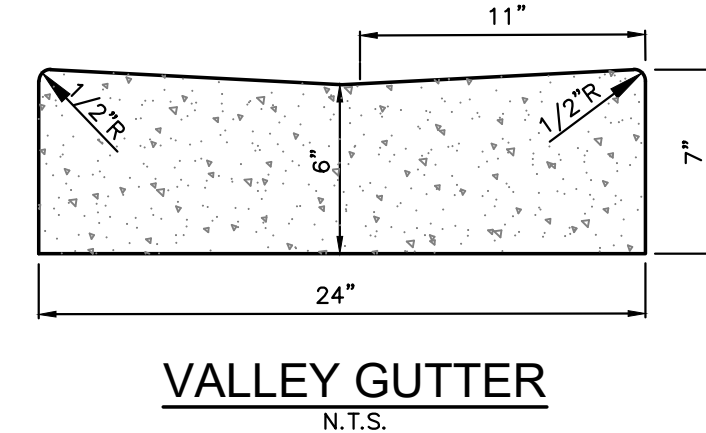
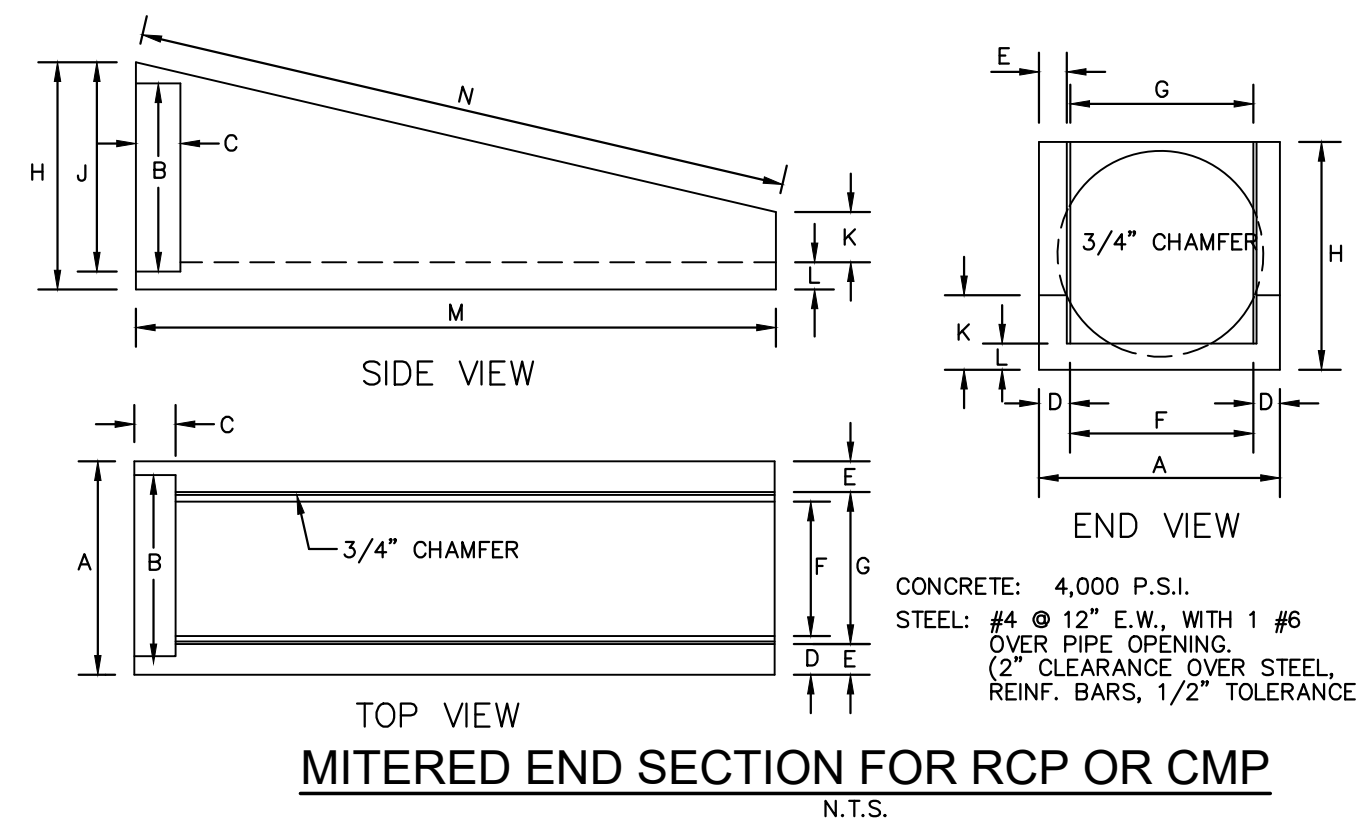
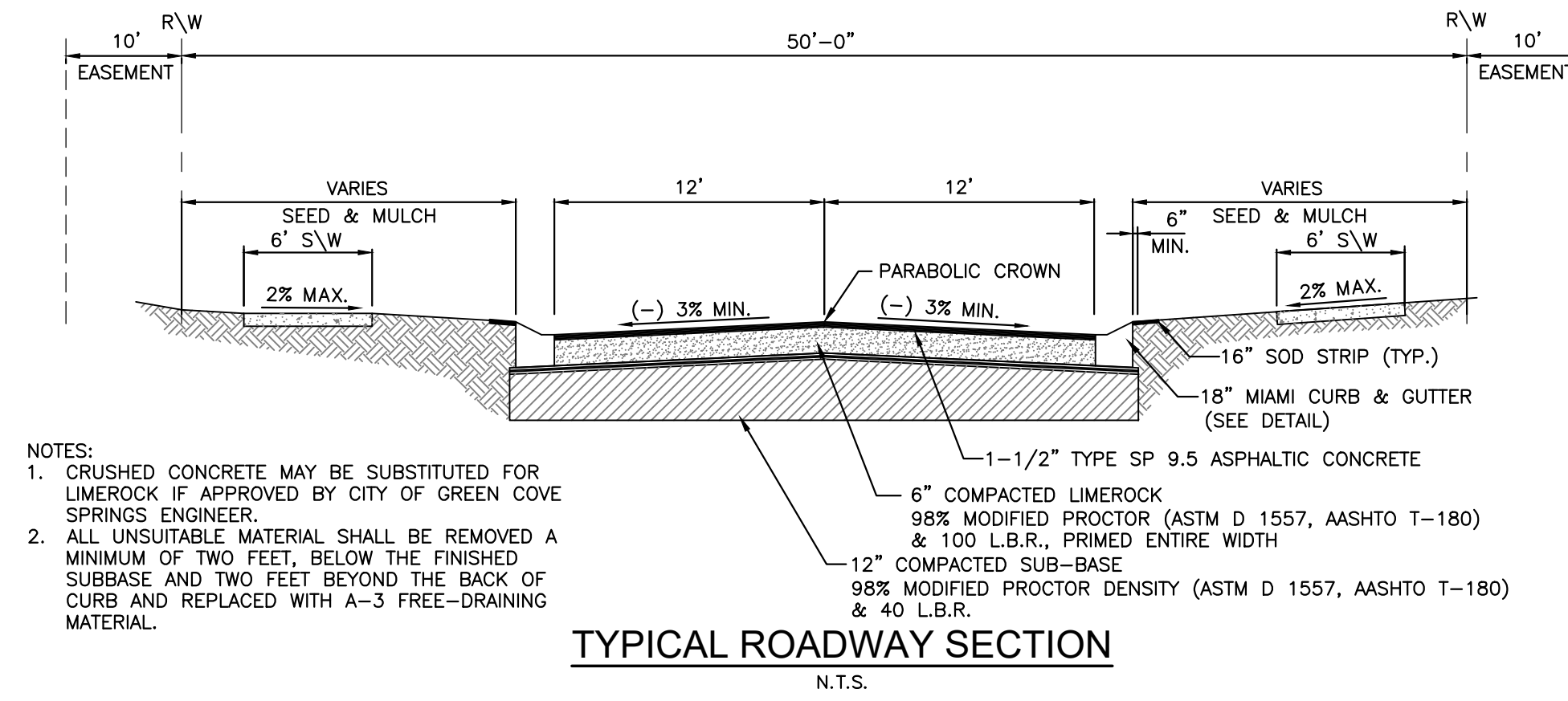


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GRAYLON OAKS  
 FOR  
 GRAYLON OAKS LAND TRUST  
 EROSION CONTROL PLAN

REVISIONS


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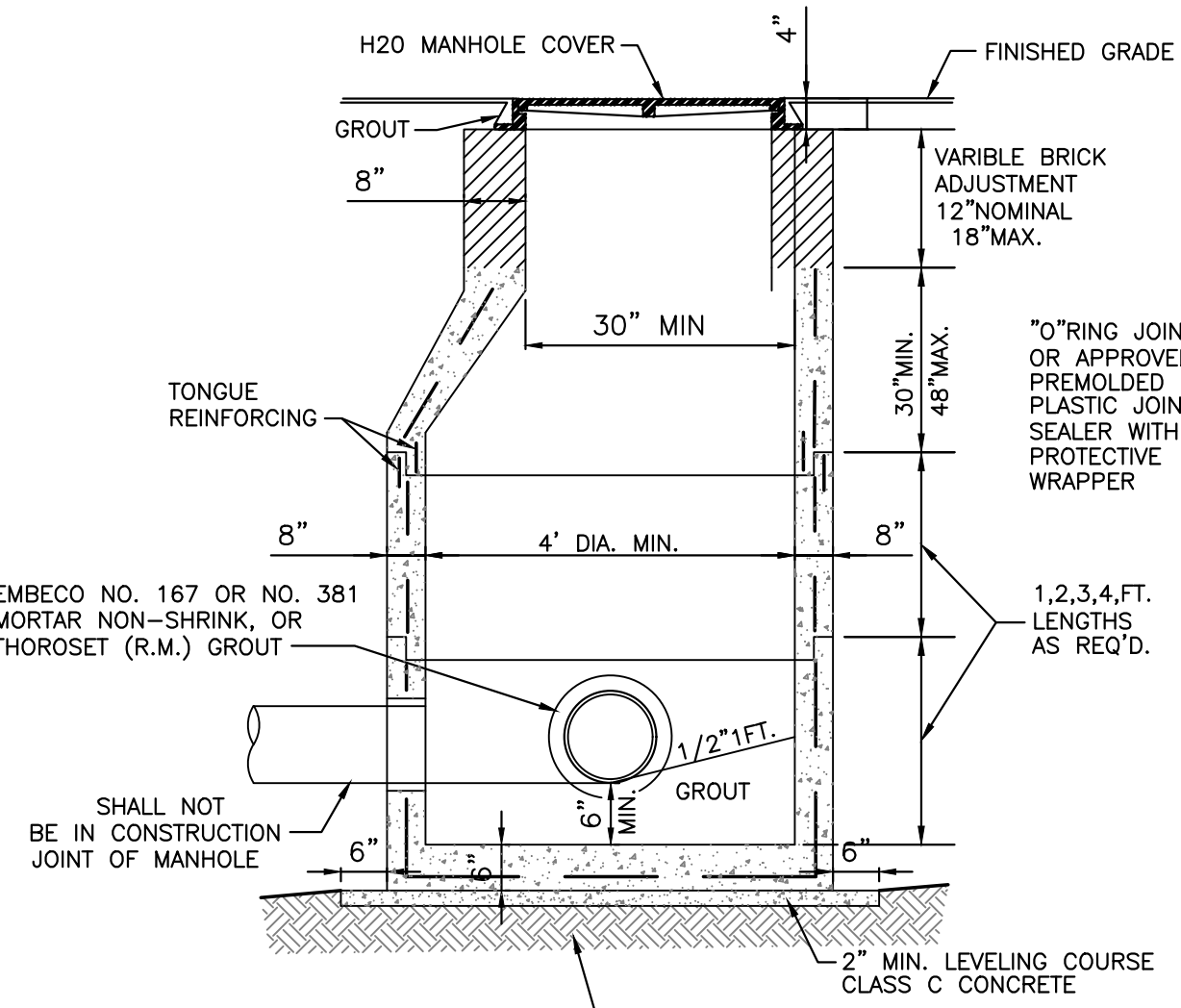
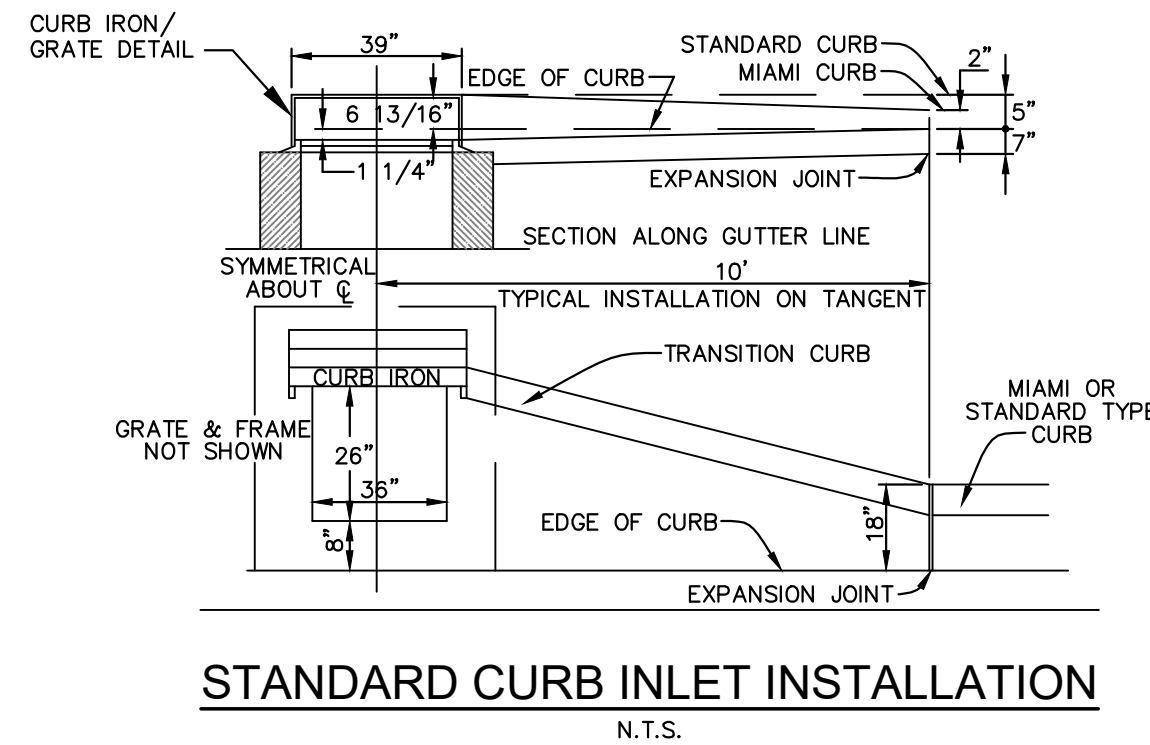
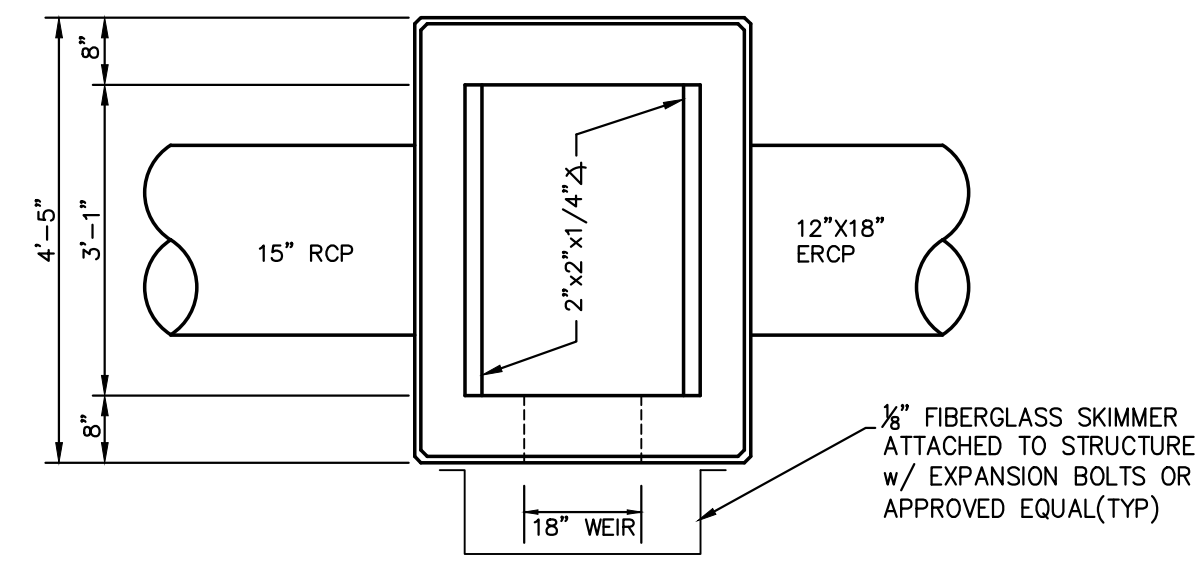
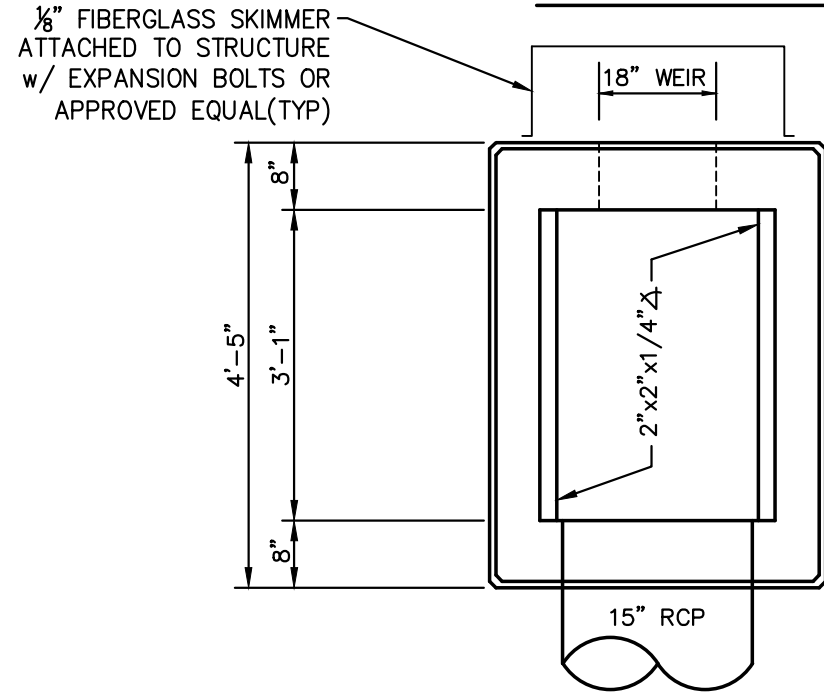


NOTES:  
1. MATERIALS AND CONSTRUCTION SHALL TO THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.  
2. CONCRETE SHALL BE CLASS 1 CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.

RCP/CMP	A	B	C	D	E	F	G
15" - 18"	2'-7"	2'-1"	8"	6"	6 3/4"	1'-6"	1'-7"
24"	2'-11"	2'-8"	6"	5"	4 1/2"	1'-11"	2'-10"
30"	3'-6"	3'-2"	6"	6"	5 1/2"	2'-5"	2'-6 1/2"
36"	4'-1"	3'-10"	6"	7"	5 1/2"	2'-9"	3'-0"

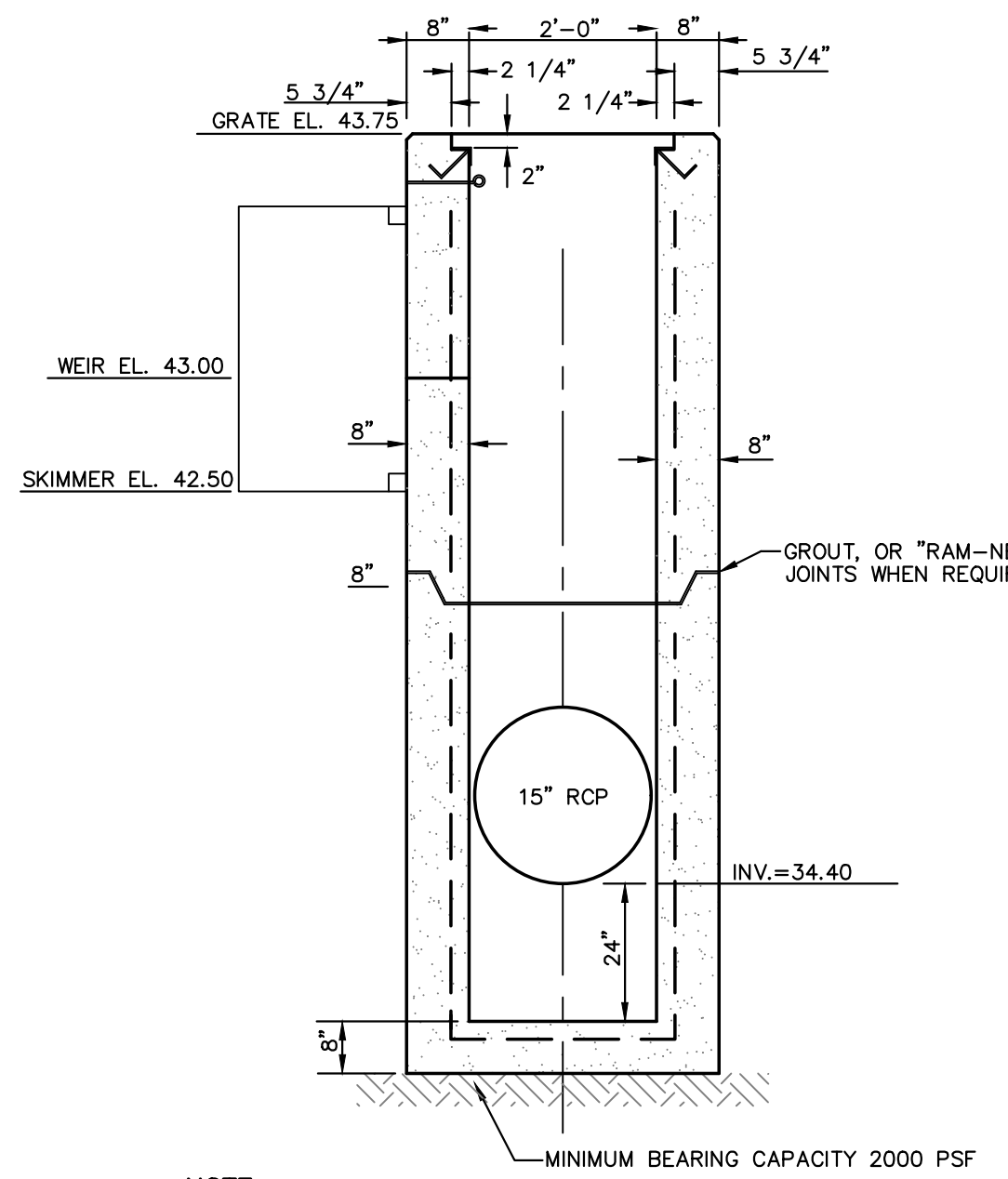
RCP/CMP	H	J	K	L	M	N
15" - 18"	2'-10"	2'-4"	8"	6"	6'-10"	7'-0"
24"	3'-6"	3'-1"	7 1/2"	5"	10'-0"	10'-3 1/2"
30"	3'-9"	3'-5"	7"	5"	11'-5"	11'-8 1/4"
36"	4'-6"	4'-0"	6"	6"	14'-0"	14'-4 1/2"

**TABLE FOR MITERED END SECTION**  
N.T.S.

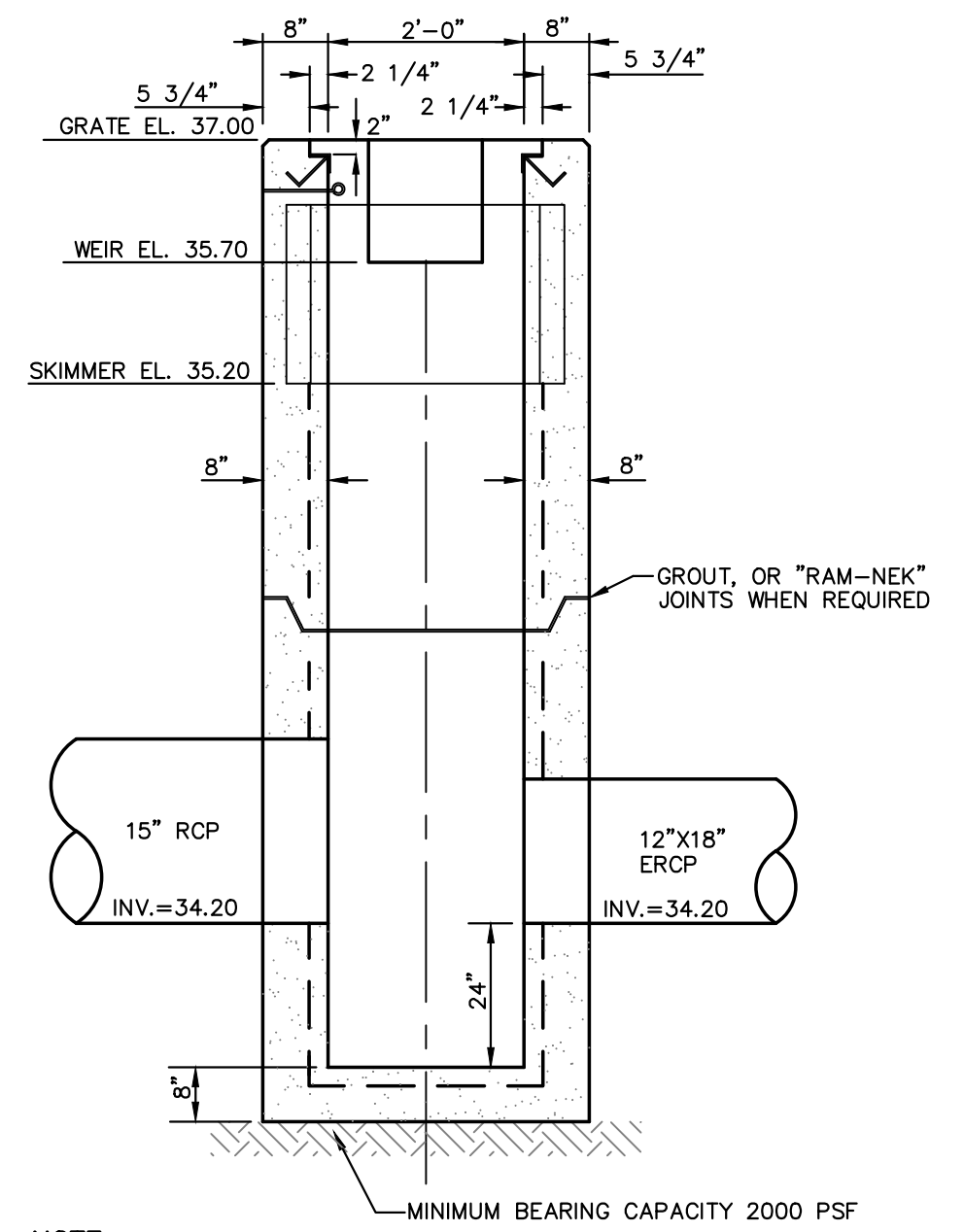


NOTES:  
1. PRECAST MANHOLE SECTIONS TO BE MFRD. IN ACCORDANCE WITH LATEST EDITIONS OF ASTM C478 WITH 4000 LB. CONCRETE, TYPE II CEMENT.

**STORM WATER MANHOLE**  
N.T.S.



**SWMF 1 OUTFALL STRUCTURE - MODIFIED STORM SEWER TYPE 'C' INLET (S9)**  
N.T.S.



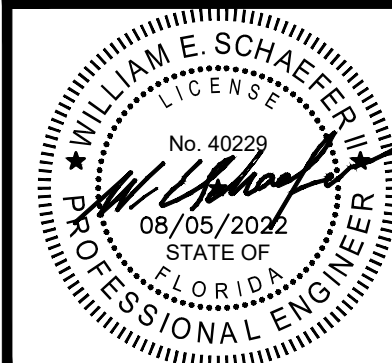
**SWMF 2 OUTFALL STRUCTURE - MODIFIED STORM SEWER TYPE 'C' INLET (S10)**  
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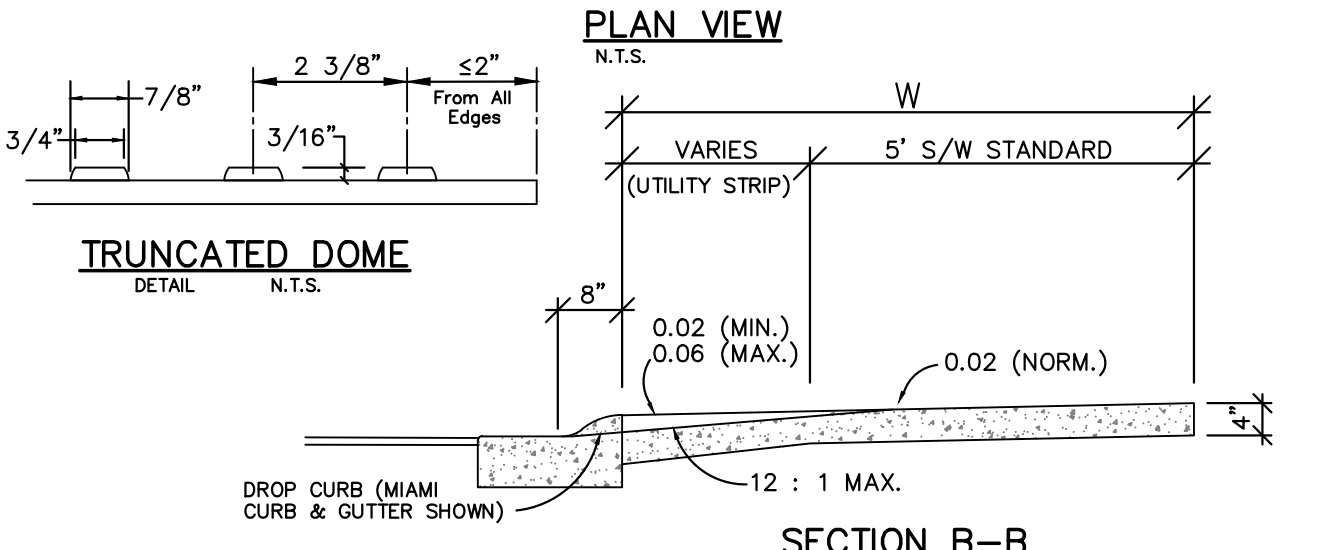
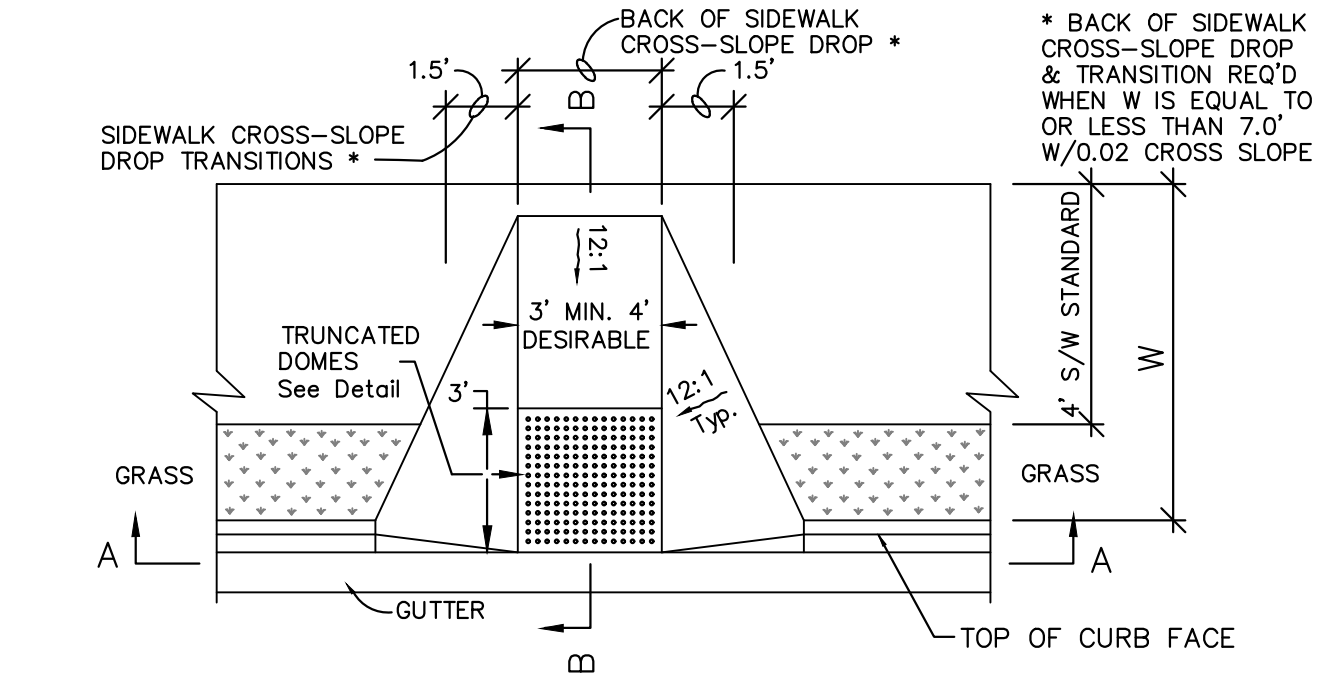
**DOMINION ENGINEERING GROUP, INC.**  
PLANNERS AND ENGINEERS  
4348 SOUTHPOINT BLVD, SUITE 204, JACKSONVILLE, FLORIDA 32216  
TEL: 904-854-4500 C.A. NUMBER: 26821 FAX 904-854-4505  
www.dom-eng.com

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FOR  
GRAYLON OAKS LAND TRUST  
PAVING AND DRAINAGE DETAILS

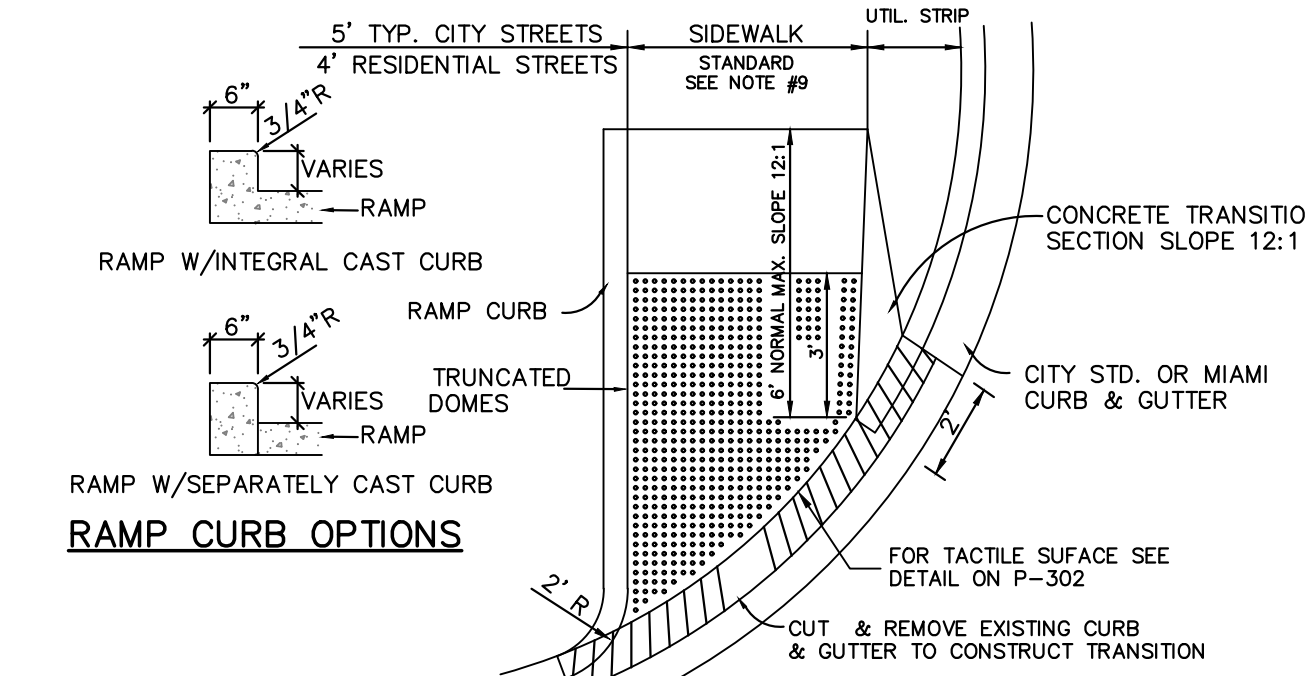
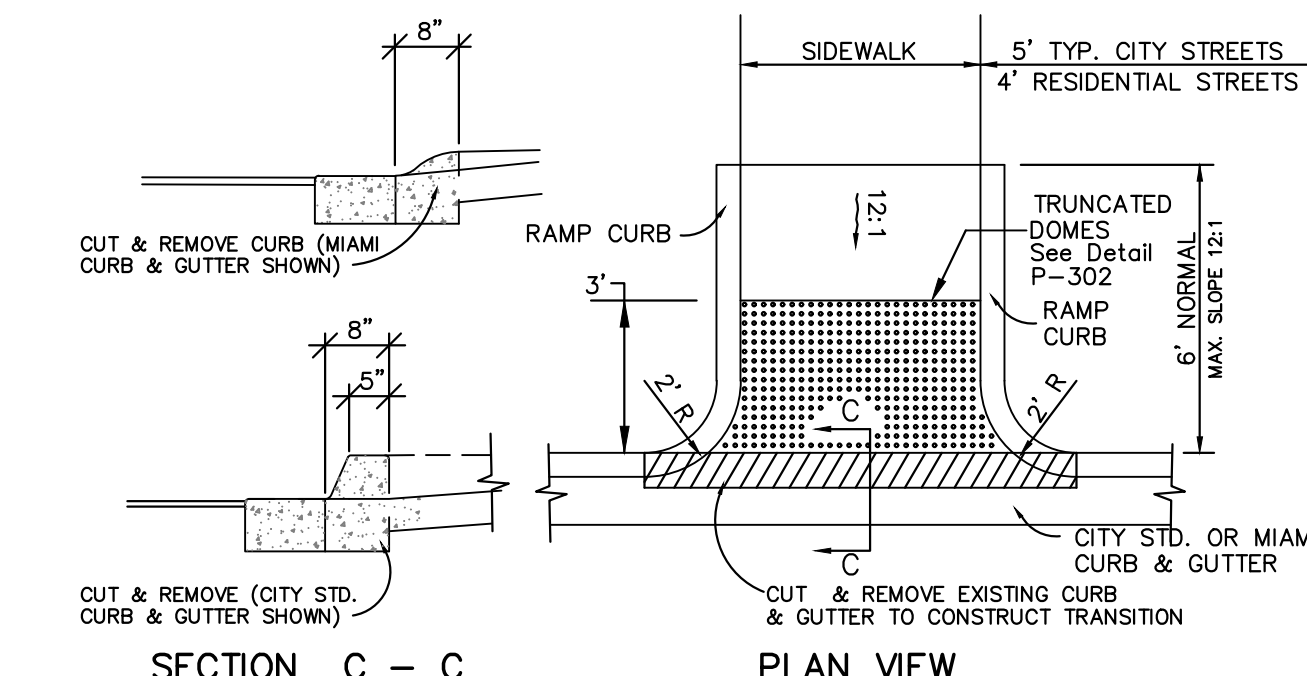
REVISIONS

PLOT DATE:  
DRAWN BY: JMM  
DESIGNED BY: WES  
CHECKED BY: WES  
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**C7**  
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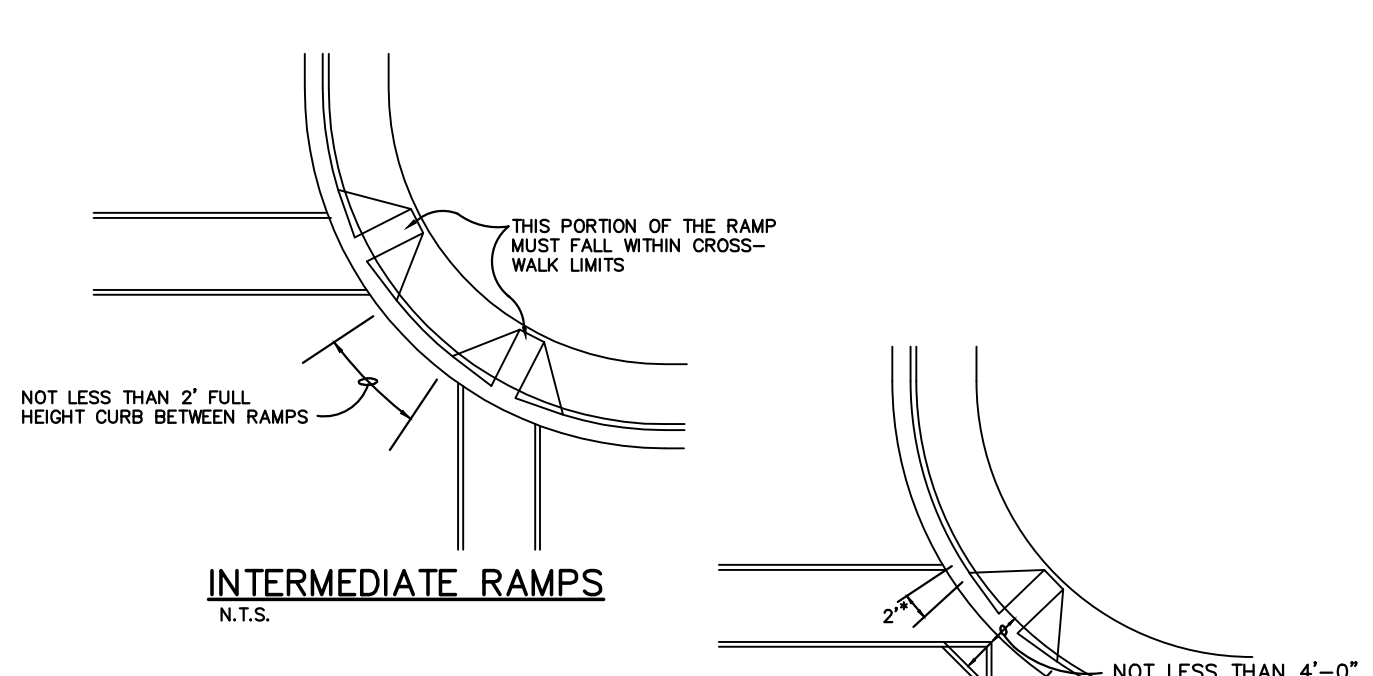


**CURB CUT RAMP FACILITY FOR PHYSICALLY HANDICAPPED MIAMI CURB & GUTTER**  
N.T.S.



DETECTABLE WARNINGS IN CURB RAMP/CROSSWALKS SHALL COMPLY WITH ALL ADA REQUIREMENTS INCLUDING 4.7.7 / 4.29 AND FDOT INDEX NO. 304

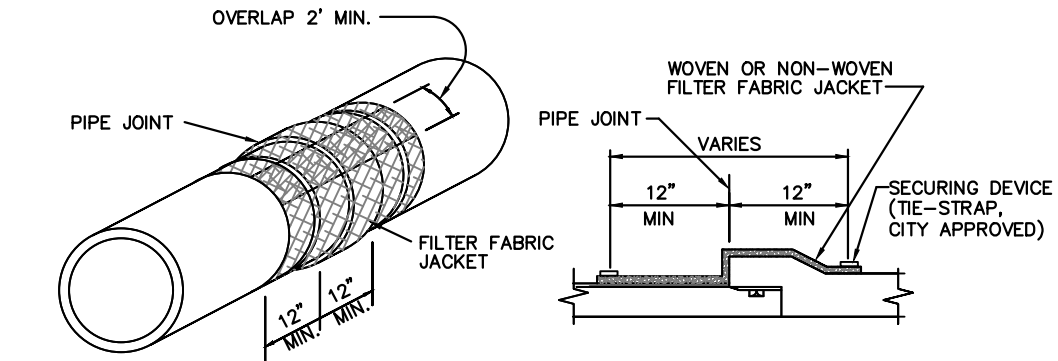
**CURB CUT RAMP FACILITY FOR PHYSICALLY HANDICAPPED**  
N.T.S.



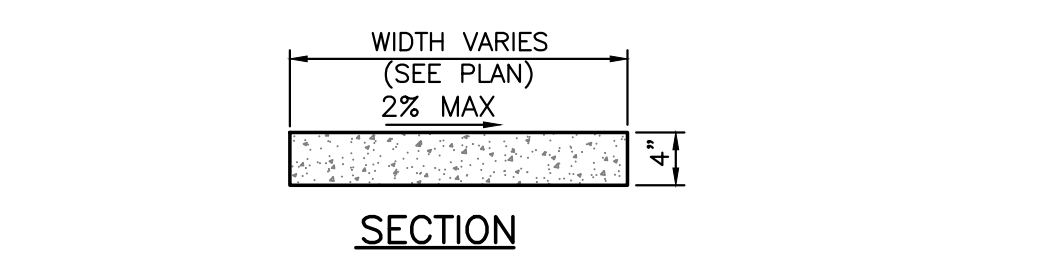
**GENERAL NOTES**

1. CURB CUT RAMPS ARE TO BE CONSTRUCTED ON ALL CURBED FACILITIES, BUT ONLY AT THOSE LOCATIONS WHERE A MARKED CROSSWALK ADJOINS A SIDEWALK. THE CROSSWALK & SIDEWALK EACH CAN BE EITHER EXISTING TO REMAIN OR NEW MARKINGS & CONSTRUCTION.
2. RAMP LOCATIONS ARE TO BE COORDINATED WITH & IN CONFORMANCE WITH CROSSWALK MARKING DETAILS AS SHOWN IN THE PLANS.
3. IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, THEN IT SHALL HAVE FLARED SIDES; THE MAXIMUM SLOPE OF THE FLARE SHALL BE 12:1.
4. RAMPS TO BE CONSTRUCTED AT ALL LOCATIONS SHOWN ON PLANS EVEN WHEN SIDEWALK IS NOT CONSTRUCTED CONCURRENTLY.
5. BASIS OF PAYMENT: CONTRACT UNIT PRICE ESTABLISHED IN THE PROPOSAL FOR CURB & GUTTER.
6. THIS STANDARD IS NOT INTENDED TO BE ABSOLUTE, FINAL DETERMINATIONS TO BE MADE IN THE FIELD.
7. MIAMI CURB WITHIN LIMITS OF WHEEL CHAIR RAMP TO BE "LOW CURB" TO ACCOMMODATE 12:1 MAXIMUM RATE FROM GUTTER TO END OF TRANSITION. MIAMI TYPE CURB & GUTTER DETAILS SIMILAR, CURB TRANSITION LENGTH SHALL BE 3'-0".
8. SIDEWALK WIDTH TO MEET REQUIREMENTS OF THE GOVERNING STANDARDS, REGULATIONS AND SPECIFICATIONS, BUT NOT LESS THAN 4'-0".
9. ALL NEW CONCRETE RAMP SURFACES TO RECEIVE TRUNCATED DOMES.
10. DIAGONAL RAMPS ARE TO BE USED AT RADIUS LESS THAN 50'.

**CURB CUT RAMP FACILITY FOR PHYSICALLY HANDICAPPED**  
N.T.S.

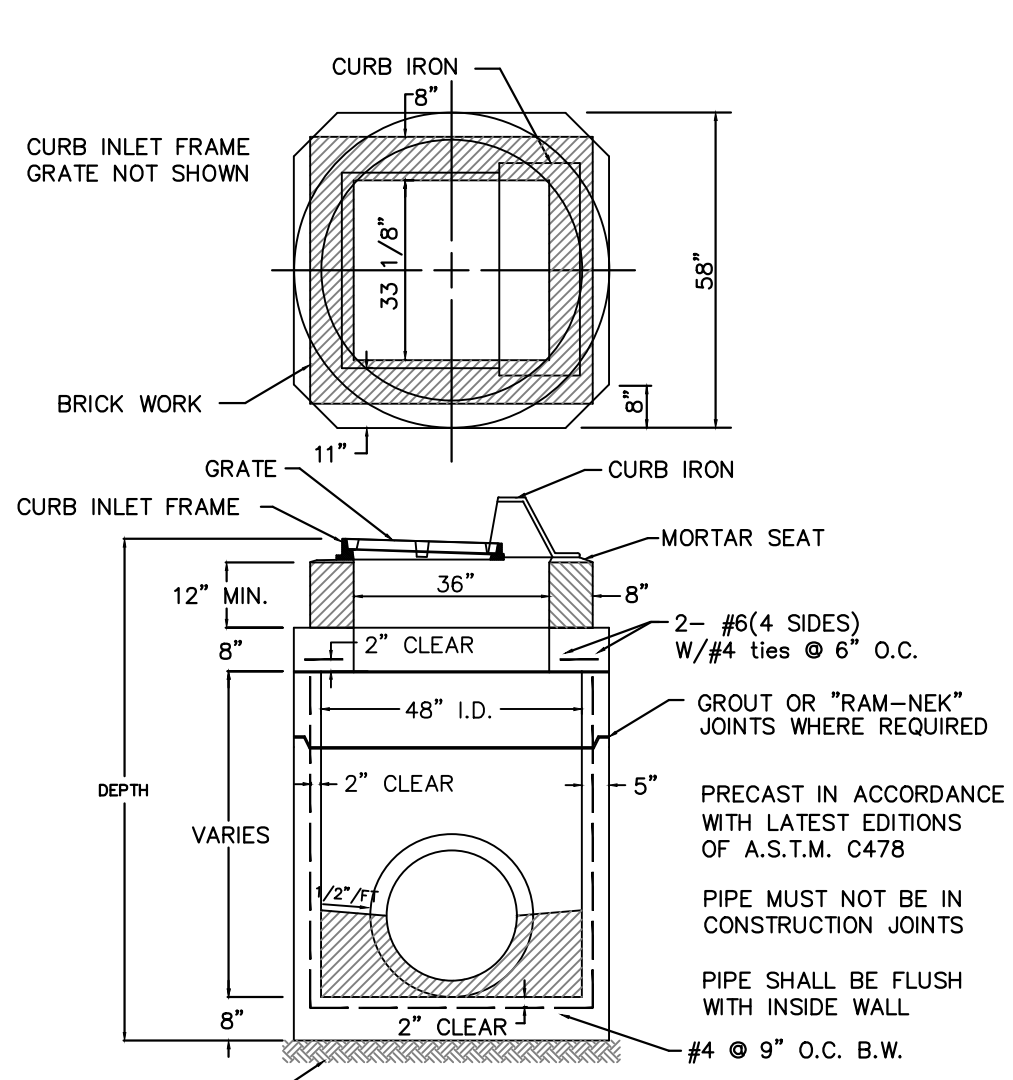


**FILTER FABRIC JACKET DETAIL**  
N.T.S.



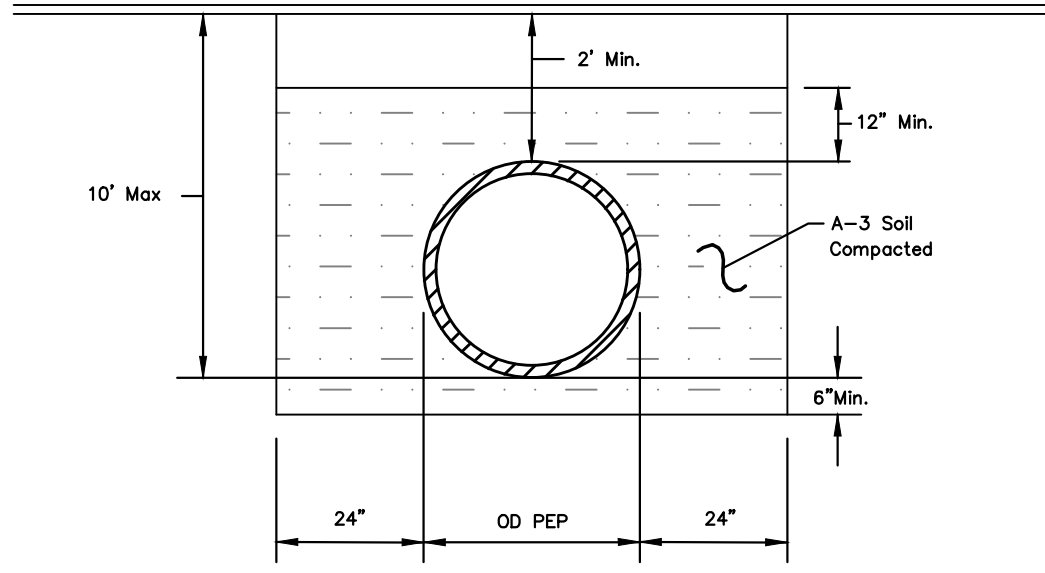
1. 1/2" EXPANSION JOINTS PLACED AT 18' O.C. WITH TOOLED CONTRACTION JOINTS (1 1/2" DEEP) EVERY 6' O.C.
2. SIDEWALKS SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE, CLASS NON-STRESS (NS), AND ALL METHODS OF CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDING TO THE LATEST EDITION OF THE CITY OF GREEN COVE SPRINGS LDC.

**CONCRETE SIDEWALK AND JOINT DETAIL**  
N.T.S.



NOTE: CONC. DESIGN STRENGTH 4,000 PSI  
NOTE: 20" OF UNDERDRAIN SHALL BE INSTALLED ON BOTH SIDE OF ALL CURB INLETS.

**STORM SEWER 48" I.D. CURB INLET**  
N.T.S.

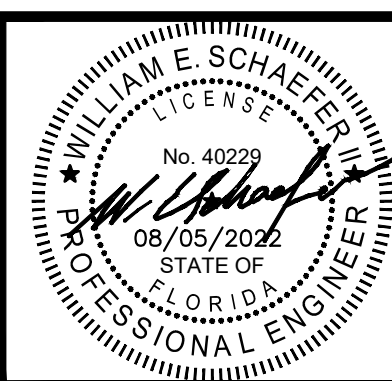


- PIPE SIZES ALLOWED 15" THROUGH 36"
- PIPE SIZES LARGER THAN 24 INCHES MAY NOT BE INSTALLED UNDER ROADWAYS.
- RUBBER OR NEOPRENE GASKETS REQUIRED
- HYDROSTATIC FIELD TESTING REQUIRED OR FILTER FABRIC
- MAXIMUM FILL HEIGHT IS TEN FEET
- MINIMUM COVER OVER PIPE IS TWO FEET
- MAXIMUM DEFLECTION IS 5%
- PIPES SIZES LARGER THAN 24" SHALL BE TESTED FOR DEFLECTION USING A MANDREL. HOWEVER DURING VISUAL INSPECTION, SHOULD THE CITY ENGINEER [OR HIS DESIGNEE] DETERMINE THAT THESE APPLICATIONS [FOR PIPE 24" OR LESS] WARRANT MANDREL TESTING, A MANDREL TEST WILL BE REQUIRED
- PIPE TRENCH SHALL BE EXCAVATED A MINIMUM OF 6" BELOW AND 24" ON EITHER SIDE OF THE PIPE
- BEDDING AND BACKFILL SHALL BE EITHER CRUSSED STONE / GRAVEL OR A - 3 SOIL
- MITERED END SECTIONS MUST BE FABRICATED FROM ANOTHER APPROVED CULVERT MATERIAL
- PIPE SPECIFICATIONS TO BE IN ACCORDANCE WITH THE CITY'S LAND DEVELOPMENT PROCEDURES MANUAL

**POLYETHYLENE PIPE DETAIL**  
N.T.S.

NO.	REVISIONS

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



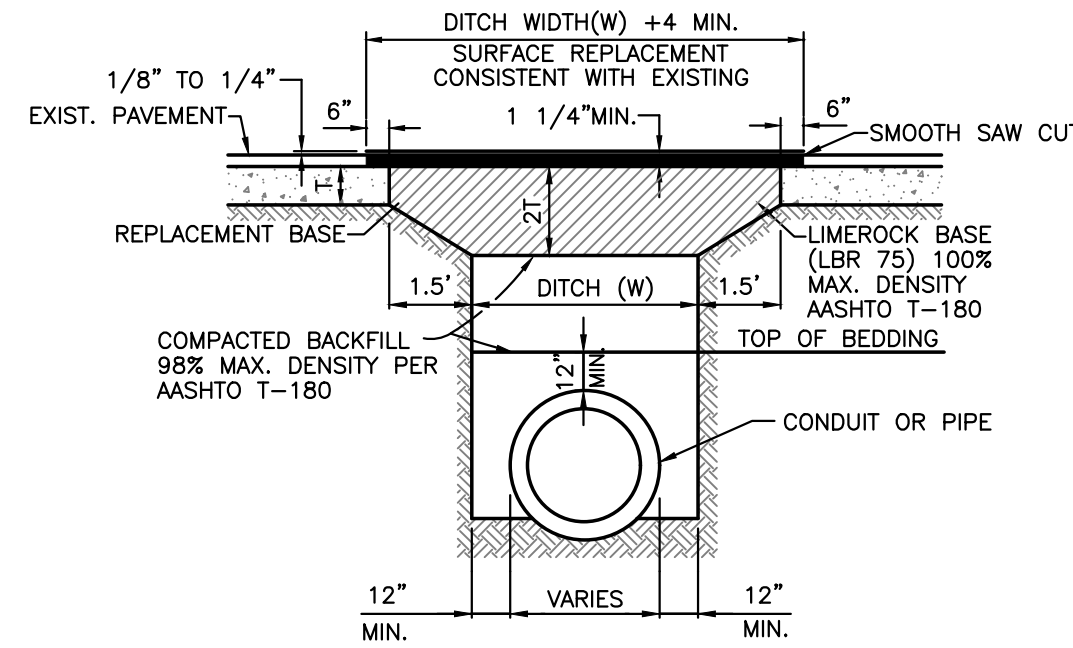
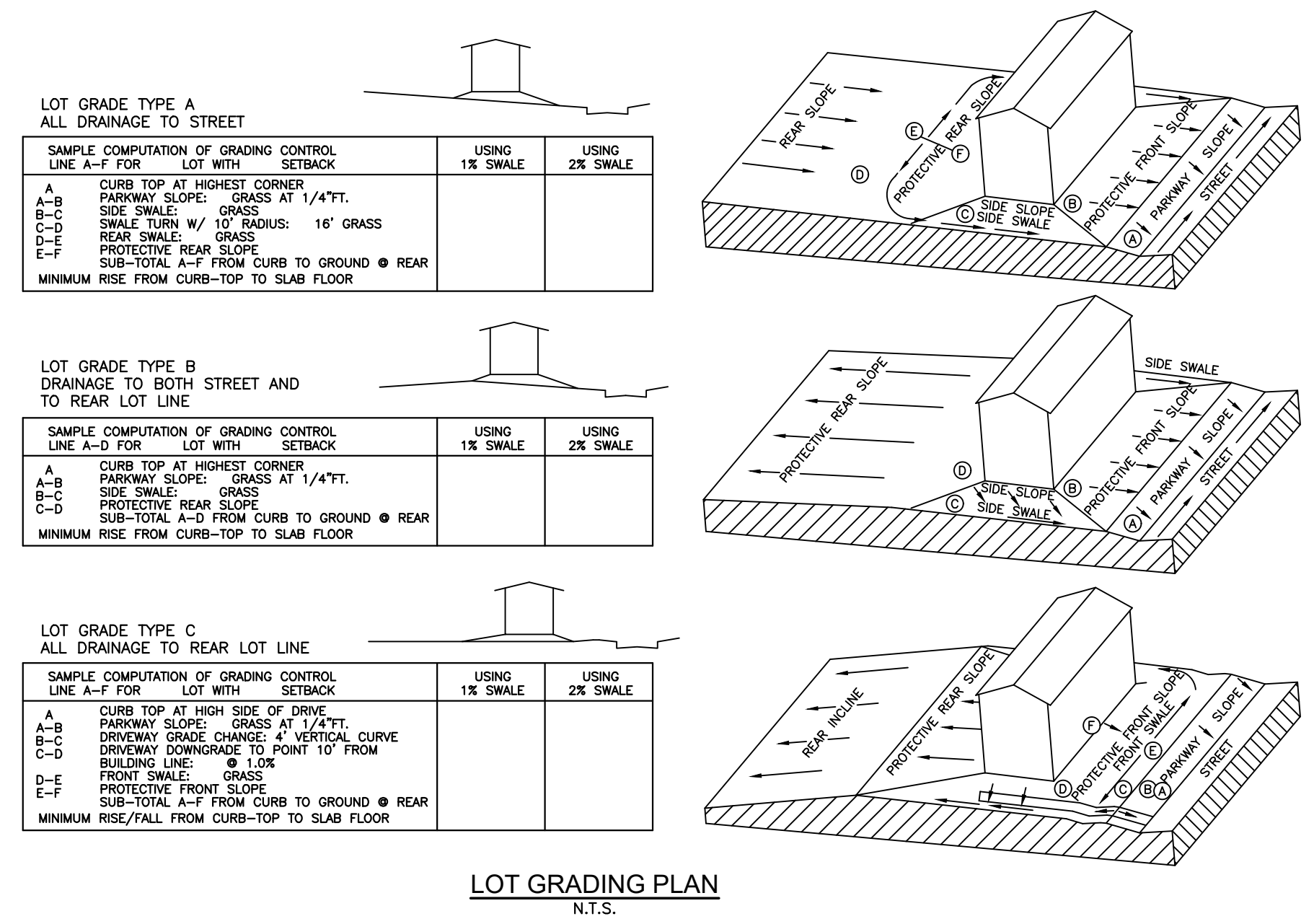


GENERAL NOTES:

- ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF COUNTY STANDARDS, (LATEST REVISION) AND ALL CURRENT COUNTY 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 AGES, INC. (REPORT #J19275), IF MORE STRINGENT THAN COUNTY REQUIREMENTS.
- 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.
- 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.
- 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.
- ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER, AND/OR THE COUNTY FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER AND THE COUNTY. CCUA AND COUNTY WARRANTIES PER THEIR REQUIREMENTS.
- ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88.) UNITED STATES COASTAL AND GEODETIC SURVEY (U.S.C. & G.S.), AS DETERMINED BY BARTRAM TRAIL SURVEYING, INC.
- FOR BOUNDARY, ROADWAY AND LOT GEOMETRY INFORMATION SEE PLAT.
- THE CONTRACTOR WILL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY TO PERFORM MATERIAL TESTING AND SOIL TESTING IN ACCORDANCE WITH COUNTY AND/OR COSA 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE REQUIRED FOR THE PROJECT INCLUDING COUNTY RIGHT-OF-WAY PERMITS FOR WORK IN THE COUNTY RIGHT- OF-WAY OR EASEMENT.
- THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN COUNTY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION AND REPAIR.
- ALL PUBLIC DRAINAGE EASEMENTS SHALL BE "UNOBSTRUCTED" EASEMENTS. ALL "UNOBSTRUCTED" EASEMENTS TO BE CLEAR AND DRIVEABLE.
- "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 COUNTY STANDARDS AND SPECIFICATIONS AND SJRWMD REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCESS THE "AS-BUILT" DRAWINGS FOR APPROVAL BY THE COUNTY AND OWNER.
- 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.
- 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.
- 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.
- 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.
- ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE PROPERLY DISPOSED OF OFF-SITE BY CONTRACTOR.
- ALL EXCESS SUITABLE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY ENGINEER OR OWNER.
- ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.
- BURNING OF TREES, BRUSH AND OTHER MATERIAL SHALL BE APPROVED, PERMITTED AND COORDINATED WITH COUNTY FIRE MARSHAL.
- 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.
- 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.
- CONTRACTOR SHALL PROVIDE EXPANSION JOINTS AT 18' INTERVALS AND CONTRACTION JOINTS SHALL BE SPACED AT 6' INTERVALS BETWEEN EXPANSION JOINTS.
- MAINTENANCE OF TRAFFIC SHALL CONFORM TO F.D.O.T. STANDARD INDEX 600, LATEST EDITION.
- ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARD INDEXES 11860, 17346, AND 17352 LATEST EDITION.
- ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED ROADWAY/SITE DEVELOPMENT SHALL BE REMOVED BY THE CONTRACTOR UTILIZING THE HYDRO-BLASTING METHOD.
- ALL AREAS DISTURBED IN THE COUNTY RIGHT OF WAY SHALL BE SODDED.
- ANY CONCERNS OR CONFLICTS WITH ADA GRADING OR ANY OTHER GRADING ON SITE THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

EROSION & SEDIMENT CONTROL NOTES:

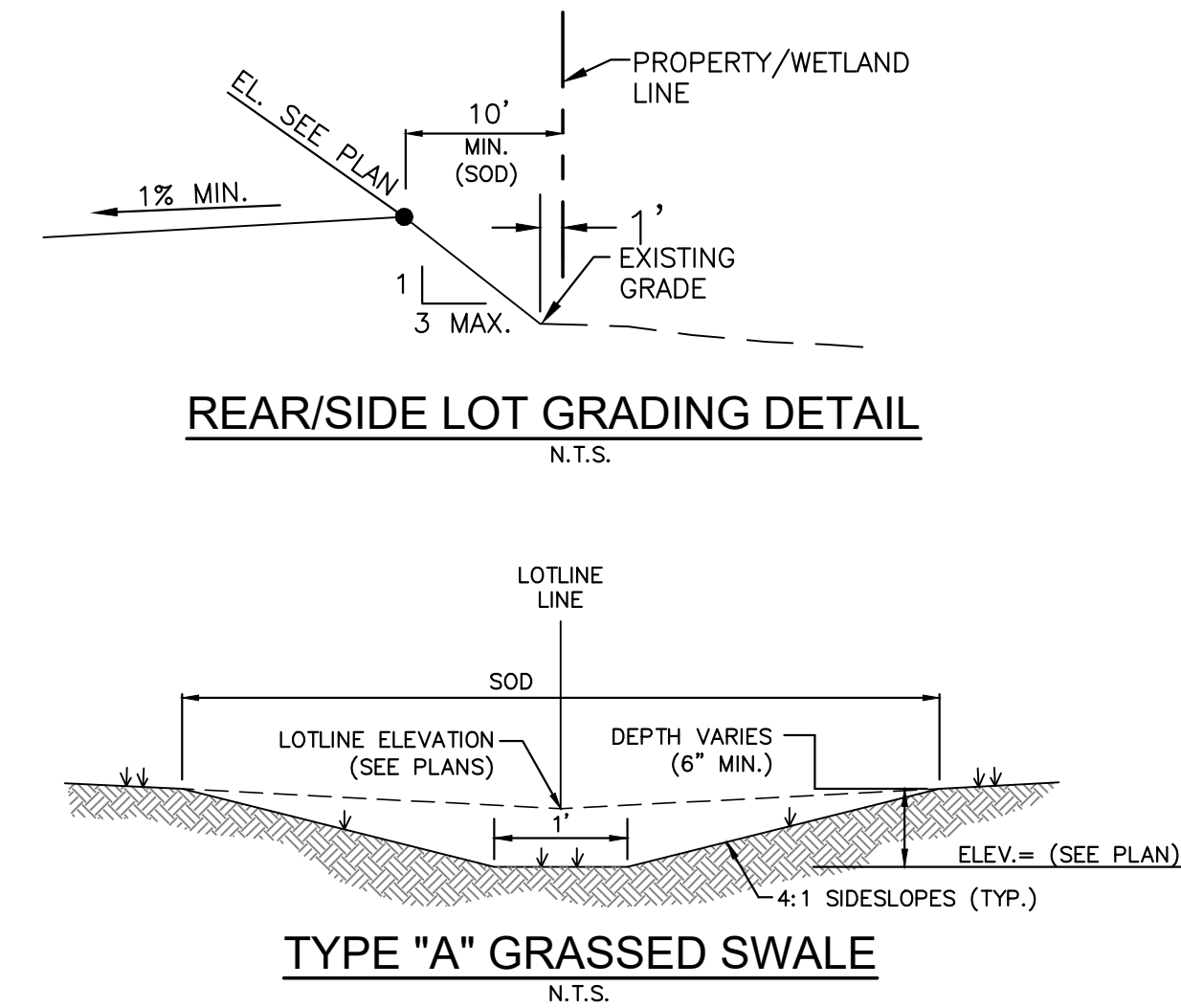
- THESE PLANS INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL-A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (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.
- 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.
- EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER COUNTY STANDARDS AND MEETING THE N.P.D.E.S. FINAL STABILIZATION REQUIREMENTS.
- 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.
- 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.
- 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.



- NOTE:
- METHOD AND MATERIALS OF REPAIR SUBJECT TO CITY OF GREEN COVE SPRINGS CONSTRUCTION REQUIREMENTS FOR NEW PAVT. TYPE OF ASPHALT CONC. SHALL BE THE SAME AS EXIST. ROAD.
  - IN SOME CASES PORTLAND CEMENT CONCRETE MAY BE CONSIDERED OR REQUIRED BY CITY ENGINEER FOR SURFACE REPLACEMENT.

CASE X PAVEMENT REPAIR

N.T.S.



**DOMINION ENGINEERING GROUP, INC.**

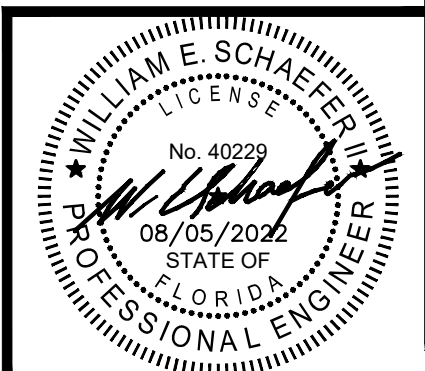
PLANNERS AND ENGINEERS

4348 SOUTHPOINT BLVD, SUITE 204, JACKSONVILLE, FLORIDA 32216  
 TEL: 904-854-4500 C.A. NUMBER: 26821 www.dom-eng.com

GRAYLON OAKS FOR GRAYLON OAKS LAND TRUST  
 GENERAL NOTES AND DETAILS

REVISIONS

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



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OF

Clay County General Notes

- Clay County Engineering Division requires twenty-four hours (24-hr) notice on all meetings and or testing procedures.
- Construction warning signs are to be posted mounted and erected before construction can commence. These and all traffic control devices shall follow the standards set forth by the Manual of Uniform Traffic Control Devices (MUTCD) and the Florida Department of Transportation Standard Specifications and Details.
- All construction projects 1 acre or more in size shall be required to abide by the provisions of the National Pollutant Discharge Elimination (NPDES) permit. The owner or contractor is responsible for preparing the Stormwater Pollution Prevention Plan (SWPPP) and submitting the NPDES "Notice of Intent" (NOI) and "Notice of Termination" (NOT) to the EPA or local state agency having jurisdiction over the NPDES program. The contractor shall keep onsite copies of the SWPPP, NOI, and water management district permits.
- It is the responsibility of the contractor to recognize and abide by all OSHA safety standards.
- All disturbed Clay County Rights-of-Way shall be sodded to the discretion and approval of the Clay County Engineering Division.
- Contractor shall provide roadway stationing markers through-out the roadway construction phase on 50 foot stations.
- The contractor shall verify all utility locations prior to excavation and take all measures necessary to protect utilities during construction. Should any utility line or component become damaged or require relocation the contractor shall immediately notify the responsible utility company, the engineer, and the county.
- Updated November 18, 2014

**CALL BEFORE YOU DIG**  
**1-800-432-4770**  
**&**  
**904-269-6359**

- Call 800-432-4770 two full business days before digging. Call 10 days before digging when digging under water.
- Call 904-269-6359 (Clay County Signal & Maintenance Division) two full business days before digging
- Wait the required time for buried utilities to be located and marked.
- Protect the marks during your project. If marks are destroyed, call again.
- Dig safely, using extreme caution when digging within 24 inches on either side of the marks to avoid hitting the buried utility lines.

- Before working in existing county rights-of-way, the contractor shall be required to obtain a right-of-way permit. The permit can be obtained at the Clay County Engineering Division, 477 Houston Street, 3rd Floor, Green Cove Springs, Florida.
- All swale sections and ponds are to be sodded within 15 days of their final grading.
- Any offsite swales or ditches impacted by the development, the contractor shall re-grade and restore, to obtain positive drainage.
- A copy of the contractors' general license and the under ground utility license shall be provided at the time of the pre-construction conference.
- Any applicable Saint Johns River Water Management District (SJRWMD), FDEP (Generic Permit for Stormwater Discharge from Large and Small Construction Activities, Army Corp of Engineers, and a Florida Department of Transportation (FDOT) permits shall be provided to the county by the pre-construction conference. No work shall begin without all applicable permits on file.
- The contractor must obtain approval from the Saint Johns River Water Management District (SJRWMD) before the county will accept the project.
- All storm pipes shall be videoed prior to a final inspection and all data shall be recorded in High quality DVD format with sound or any equipment approved by the Engineering Division (Ref. FDOT SSRBC latest edition).
- There shall be a minimum five (5) days notice given for scheduling the final inspection.
- At the final inspection a letter of compliance will need to be filled out and signed by the State of Florida Registered Professional Engineer of record for the project. The letter shall state that the project has been built in accordance of the approved design plans and other agency permits.
- All soil and debris tracked out of the project shall be cleaned in accordance with the approved SWPPP or at the discretion of the Clay County Engineering Division.
- Prior to any inspection or testing, all pipe line, structures, roadway, etc. shall be cleaned.

Erosion Control

- Pursuant to Comprehensive Plan Policy 9:1 of the conservation element, the use of one or more erosion control measures, as requested by the Clay County Engineering Division, shall be used during construction. These will be, but not limited to, items such as temporary grass cover, sediment basins or ponds, mulching, temporary fences, diversion channels, and hay bales.
- Pursuant to Comprehensive Plan Policy 9:1 of the conservation element, scheduling of construction shall be given special consideration to minimize exposure of bare soil. The contractor will formulate a construction schedule to be given to the county representative.
- The governing publications for erosion control are current FDOT Roadway and Traffic Design Standards, Index 100-105, current FDOT STD. Spec. for Roadway & Bridge Const., Section 104, and the NPDES Stormwater and Erosion Control Manual latest edition.
- The contractor shall check each day to insure that all erosion control devices are in place and working properly.
- All erosion control measures shall be in compliance with the rules, regulations and standards of the Saint Johns River Water Management District, The Florida Department of Environmental Protection, and The United States Army Corp of Engineers and Clay County Regulations and Ordinances.
- The contractor shall take whatever means necessary to prevent the erosion of soil and deposition of sediment on adjacent and downstream properties.
- All erosion control measures shall be installed prior to commencement of construction. Sediment control consists of silt fencing, hay bales, and floating turbidity barriers per FDOT Index No. 102 &103. Erosion control consists of seeding and mulching, sodding, wetting surfaces, placement of coarse aggregate, temporary paving.
- The contractor shall respond to erosion and sediment control maintenance with 24-hours of being informed by Clay County, unless the situation requires an immediate response. The contractor will then respond immediately after notification by the county. The contractors erosion control inspector shall be a qualified stormwater management inspector by the Florida Department of Environmental Protection.

- The contractor shall be required to incorporate permanent erosion control measures at the earliest practical time so as to minimize the need for temporary controls.
- The erosion and sediment control measures shown on the plans are minimum requirements. The contractor shall be responsible for additional erosion control measures as determined by the county or the contractor to insure quality control.

- All disturbed areas shall be grassed within 7 days of the initial disturbance. Types of grassing shall be as follows: Sodding is required for around all drainage structures, retention/detention areas, swales, ditches, and where 4:1 slopes are exceeded. Seed and mulch may be used at all other locations unless specifically called out for on these drawings. There shall be a standing row of grass at the time of final acceptance. If seed and mulch has been used and has not taken, sod will be required for established grass.

- The contractor shall inspect and report erosion and sediment control methods every week and after 1/2 inch of rain during construction. The contractor shall remove any sediment build up, repair or reinstall any control measures.

- The county requires background testing of local waterways and additional periodic testing during construction for water quality and conformity with Clay County Standards.

- A stabilized construction entrance is required with all developments. Where the development is built in phases, a secondary construction entrance will be required that does not allow construction equipment to access through the existing development if possible.

Public Safety

- Blue, all-directional highway-style reflective markers shall be provided on all roadways, alleys, access roads, and all paved area in front of each hydrant. Said markers shall be located in the center of travel lane on the same side as the hydrant. These markers shall be in place by the time of the final inspection or approval.
- A disk shall be provided to the Public Safety Department, in Auto Cad format, showing the location of all fire hydrants before final approval.

Excavation & Embankments

- The governing publications for roadway excavation and embankment are the current FDOT Roadway and Traffic Design Standards, indexes 500-505 and section 120 of the FDOT standard specifications for road and bridge construction latest edition. All soils shall be classified per ASSHTO soil classification system.

- The Contractor is to rough excavate and grade any proposed ponds at the start of the site grading. The Contractor will direct site runoff to the ponds to minimize runoff to offsite areas. These ponds will not be allowed to discharge prior to the grassing and inspection to make sure the water quality is acceptable.
- Contractor shall provide barriers, warning lights and other protective devices at all excavations.

- Sidewalks, roads, streets, or any other type of pedestrian or vehicular pathways shall not be blocked or obstructed by excavated materials or the excavated trench unless approved by Clay County.

- All unsuitable material shall be removed three feet (3') beyond the back of the curb and two feet (2') below the bottom of the 12" stabilized subgrade. It shall be the determination of Clay County if more excavation shall be required due to soil condition evaluated in the field.

Signage & Pavement Markings

- All signs and pavement markings shall be in accordance with the "Manuel of Uniform Traffic Control Devices" and the latest implemented addition of the FDOT Roadway and Traffic Design Standards Index numbers 9535, 11860, 11862, 11865, 17302, 17346 and 17349.
- All final pavement markings within the rights-of-way shall be thermoplastic.
- All signs shall be on a ten-foot (10') pole a minimum seven feet (7') from the ground.
- Street signs shall be mounted with tee caps and include both crossing street names
- Street signs shall be a six inches (6") high with green backings and white letters and bordering.
- Stop signs shall meet the minimum size requirements of the MUTCD.
- Stop signs are to be placed four feet (4') from back of curb, four feet (4') behind cross walks and on the right hand side of the road.
- All regulatory signs shall be black and white. All construction warning signs shall be orange and black. All warning signs shall be yellow and black. All no parking and stop signs shall be red and white.
- Stop bars shall be twenty-four inches (24") wide and lane width. All stop bars shall be thermoplastic.
- All signs must meet MUTCD and Florida Department of Transportation (FDOT) standards for reflectivity.
- For county maintained roads, street signs shall be colored with a green background and white lettering. For private roads, the sign shall be a white background with green lettering.
- All pavement markings require layout approval by Clay County.

Sidewalks

- The governing publications for sidewalk are the current FDOT Roadway and Traffic Design Standards, Index 304-310 and the current FDOT STD. Spec. for Roadway & Bridge Const. Section 522.
- Sidewalks are a minimum of 5' in width for a local road and 6' in width for a residential collector. All other roadway classifications shall refer to the details herein. In no case shall the sidewalk be less than 5' without written approval from the Engineering Division.
- All sidewalks that are not in front of a build able lot, shall be installed prior to the final inspection
- Pedestrian crossing/handicap ramps shall be installed wherever the sidewalk meets the curb. The ramps shall be in accordance with Florida Department of Transportation standard index number 304. All ADA ramps shall be installed prior to final acceptance unless otherwise approved by the Engineering Division.
- Whether depicted on the plans or not, a sidewalk is to be installed at the subdivision entrance running parallel to the right of way for the extent of the property.
- Sidewalks are to be placed, at a minimum, 3' from the property line or as otherwise approved by the Engineering Division.

Type "B" Stabilized Subgrade

- The governing publications for sub-grade are the current FDOT Roadway and Traffic Design Standards, Index 505 and the current FDOT STD. Spec. for Roadway & Bridge Const. Section 160 and Section 914.
- Limerock Bearing Ratios for subgrade shall be a minimum of 40 with no under tolerance.
- All stabilized sub-grade shall meet FDOT Type "B" stabilization as defined by the standard specifications

Base Course

- The governing publications for base materials are the current FDOT STD. Spec. for Roadway & Bridge Const.
- The limerock bearing ratio for base course is a minimum of 100 with no under tolerance.
- All limerock base courses shall be primed before paving. If the limerock is not paved within one (1) day of the priming, the base shall be required to be covered with sand.
- Any contaminated base material shall be removed. All base material shall be in its virgin state.

Asphalt

- The governing publications for asphalt are FDOT 2002 Roadway and Traffic Design Standards or the current edition, Index 513 and FDOT 2000 STD. Spec. for Roadway & Bridge Const or current edition. Section 330, 331, and 333.
- The minimum asphalt thickness for a local road is 1 1/2" with no under tolerance.
- The minimum asphalt thickness for a residential collector is 2" with no under tolerance.
- The asphalt shall be cured to thickness. If however the county's representative is present at pour and feels comfortable with the requirements then he or she may waive this policy with the direction of the Construction Project Manager.
- The maximum recycled rap allowed in asphalt mixes is 20%.

Drainage Structures & Pipe Installation

- The governing publications for pipe are the current FDOT Roadway and Traffic Design Standards, Index 205 and the current FDOT STD. Spec. for Roadway & Bridge Const. Section 430.
- The governing publications for Inlets, Junction Boxes and Manholes are the current FDOT Roadway and Traffic Design Standards, Index 201, 209, 215 and the current FDOT STD. Spec. for Roadway & Bridge Const. Section 425.
- All drainage pipe joints, inlet joint, and pipe connections to inlets shall be wrapped with filter fabric and secured.
- All joints of pipe regardless of material type shall be wrapped with fabric filter cloth per Florida Department of Transportation index number 199, type D-3, A.O.S. 70-100. The fabric shall be installed in accordance with FDOT index number 280. The contractor will provide a minimum 12" overlap in the fabric.
- All storm sewer pipes are to be steel reinforced concrete pipe (SRCP) unless otherwise noted on these drawings. Round concrete pipe shall comply with ASTM C76. Elliptical pipe shall comply with ASTM C507. Pipe joints and O ring gaskets shall comply with ASTM C443.
- All storm sewer pipes shall be subjected to leakage testing and shall be videoed/ TV after limerock has been compacted and prior to the final inspection.
- All storm sewer pipes shall be cut flush with the interior wall of any type manhole or curb and ditch bottom inlets.
- If the approved design requires the inlet or storm run be surcharged, all inlets shall be inspected before being exposed to the system.

- If the approved design requires the inlet or storm run be surcharged, all inlets shall be inspected before being exposed to the system.
- Mitered End Sections shall meet the requirements under the current FDOT Roadway and Traffic Design Standards, Index 272 & 273.

- No manhole shall be placed within 2.5' of the curb.

- No brick adjustment shall be allowed for manholes underneath the pavement.

- The maximum threshold for manhole adjustment underneath the roadway shall be between 0 to 4".

- Final Pipe Inspection in the Right-of-Way or County's easement: After the final base course operation, the contractor shall dewater and video the pipe/culvert; the County will only review the video Data post base compaction and supplied by the contractor/developer, and the tests and DVD must meet section 430 of the latest edition of the FDOT Standard Specifications for Road and Bridge Construction.

Underdrain

- The governing publications for underdrain are the current FDOT Roadway and Traffic Design Standards, Index 286 and the current FDOT STD., Spec. for Roadway & Bridge Const. Section 440.
- All underdrain lines shall have a forty-five degree clean out at two hundred feet intervals and at the end of the pipe run. The curb shall be marked with teal or hunter green paint as to the location of the clean out.
- All underdrain filter material shall be fully wrapped with filter cloth. The county will not permit any 1/2 or 3/4 wrapped piping.
- Underdrain shall be placed, at a minimum, 2' from back off curbing.
- A 2' stub out is required for all drainage structures. All stub outs shall be capped with an underdrain clean out.
- No tree root barrier or roots shall be placed within a horizontal distance of 2' from the underdrain.
- If unsuitable material is found within the limits of the road or if material is hauled in for roadway fill at a depth grater than one-foot (1') then the entire roadway shall be underdrained in accordance with the geotechnical report and installed per the approved Clay County Detail.

Curb & Miscellaneous Concrete

- The governing publications for curb are FDOT 2004 Roadway and Traffic Design Standards, Index 300-304 and FDOT 2004 STD. Spec. for Roadway & Bridge Const. Section 520.
- The curb shall be checked for flow at any stage of the project. A water truck is to be provided at the pre- final inspection in order to check flow for proper drainage.
- The governing publications for maintenance of traffic are the current FDOT Roadway and Traffic Design Standards, Index 600 and the current FDO STD. Spec. for Roadway & Bridge Const., Section 102, and the latest edition of the MUTCD.
- When FDOT Standard Indexes do not apply and hauling is necessary for the construction of the site, additional MOT maybe necessary. Installation of "Trucks Entering and Leaving Highway" signs shall be installed and maintained throughout the limits of the construction schedule.

Maintenance of Traffic

AS-BUILT REQUIREMENTS  
PAVING AND DRAINAGE

General

- Submit one signed and sealed paper copy (24"x36") of the as-builts overlaid on the approved plans. Submit a CAD file compatible with AutoCad 2017 and a pdf that exactly matches the paper copy.
- All as-builts must use the NAVD 1988 vertical datum and the State Plane Coordinate NAD 83 horizontal datum.
- As-built must contain at least the following:
  - a) Project name
  - b) Project/Development number
  - c) Street names
  - d) Physical address (commercial sites)
  - e) North arrow
  - f) Scale
  - g) 4 boundary corners
  - h) The word "as-built" must be in at least one inch high letters.
  - i) Reference all benchmarks by station and offset
  - j) Minimum of 2 benchmarks for every 1000' feet of road

Paving

As-builts should include elevation, station, and offset at the following every 100':

- 1) Centerline or profile grade line
- 2) Top of curb
- 3) Gutter or edge of pavement (specify width)
- 4) Back of sidewalks (minimum ever 100')

As-builts should include elevation, station, and offset at each:

- 1) PC and PT
- 2) Low and high points
- 3) Centerline intersections
- 4) Beginning and end valley gutter
- 5) Begin and end super elevation transition
- 6) Gutter line (Cut-De-Sac every 25')

Drainage

- Location of all drainage structures by station and offset, including
  - a) Structure throat top and/or grate elevation (specify which)
  - b) Weir and slot elevations and orifice sizes
  - c) Pipe invert elevation and flow direction. Including underdrain.
- Size, lengths and types of drainage pipes to include underdrain.
- Cross sections through all swale and ditches. Minimum of every 25'. Must include elevation and locations of centerline, toe of slope, and top of bank.
- Pond details to include:
  - a) Elevations located top of bank a minimum of every 100'
  - b) Dated elevation of pond water level at time of the as-built
  - c) Elevations along bottom of the pond, two shots per acre minimum
- Show all drainage easements to include water flow direction

Signage

Location of all street signs by station and offset

Lot Information

Lot elevations need to be included for each individual parcel. This must be at every elevation shown on the approved plans.

Letter of Certification

The as-built needs to be reviewed by the EOR and their approval must be included in the Engineers Certification letter and submitted with the close-out package.

Revised - 10/15/19

**DOMINION ENGINEERING GROUP, INC.**

**PLANNERS AND ENGINEERS**

4348 SOUTHPOINT BLVD, SUITE 204, JACKSONVILLE, FLORIDA 32216  
 TEL: 904-854-4500 C.A. NUMBER: 26821 FAX 904-854-4505  
 www.dom-eng.com

GRAYLON OAKS

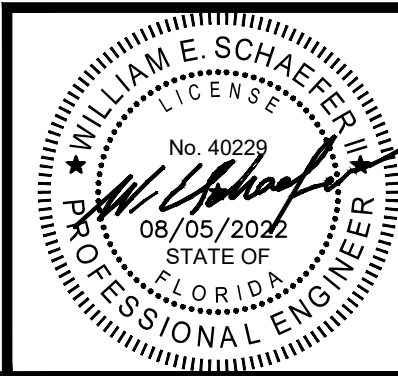
FOR  
GRAYLON OAKS LAND TRUST

CLAY COUNTY GENERAL NOTES

REVISIONS

NO.	DESCRIPTION

PLOT DATE:  
 DRAWN BY: JMM  
 DESIGNED BY: WES  
 CHECKED BY: WES  
 SCALE: AS NOTED  
 JOB NO.:  
 © LATEST DATE HEREON  
 SHEET NO.  
**C10**  
 OF \_\_\_\_\_



## STORM WATER POLLUTION PREVENTION PLAN

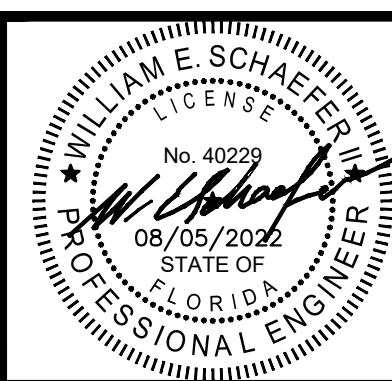
REQUIREMENTS		
<p style="text-align: center;"><b>SITE DESCRIPTION</b></p> <p>PROJECT NAME AND LOCATION: GRAYLON OAKS VERMONT AVENUE CLAY COUNTY OWNER NAME AND ADDRESS: GRAYLON OAKS LAND TRUST 4279 CEDAR ROAD ORANGE PARK, FL 32065</p> <p>DESCRIPTION: SINGLE FAMILY</p> <p>SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING AND GRUBBING; EARTHWORK, PAVEMENT AND GRADING; STORM SEWER, UTILITIES, AND PREPARATION FOR FINAL PLANTING AND SEEDING.</p> <p>RUNOFF CURVE NUMBERS: 1. PRE-CONSTRUCTION = 60 2. DURING CONSTRUCTION = 50 3. POST-CONSTRUCTION = 89</p> <p><b>SOILS:</b> SEE SOIL BORING REPORT FOR SOILS DATA</p> <p><b>SITE MAPS:</b> * SEE ATTACHED GRADING PLAN FOR PRE &amp; POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DRAINAGE POINTS. * SEE ATTACHED EROSION &amp; TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS * SEE GENERAL NOTES FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.</p> <p><b>SITE AREA:</b> 1. TOTAL AREA OF SITE = 3.82 +/- Ac. 2. TOTAL AREA TO BE DISTURBED = 3.82 +/- Ac.</p> <p>NAME OF RECEIVING WATERS: EXISTING DITCH</p>		
<p style="text-align: center;"><b>GENERAL</b></p> <p>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.</p>		
<p style="text-align: center;"><b>SEQUENCE OF MAJOR ACTIVITIES:</b></p> <p>THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>1. INSTALL STABILIZED CONSTRUCTION ENTRANCE</p> <p>2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED</p> <p>3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN</p> <p>4. CONSTRUCT SEDIMENTATION BASIN</p> <p>5. CONTINUE CLEARING AND GRUBBING</p> <p>6. STOCK PILE TOP SOIL IF REQUIRED</p> <p>7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED</p> <p>8. STABILIZE DISTURBED AREAS AND STOCKPILES AS SOON AS PRACTICABLE</p> </td> <td style="width: 50%; vertical-align: top;"> <p>9. INSTALL UTILITIES, STORM SEWER, CURBS &amp; GUTTER.</p> <p>10. APPLY BASE TO PROJECT</p> <p>11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING</p> <p>12. COMPLETE FINAL PAVING</p> <p>13. REMOVE ACCUMULATED SEDIMENT FROM BASINS</p> <p>14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED</p> </td> </tr> </table>	<p>1. INSTALL STABILIZED CONSTRUCTION ENTRANCE</p> <p>2. INSTALL SILT FENCES AND HAY BALES AS REQUIRED</p> <p>3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN</p> <p>4. CONSTRUCT SEDIMENTATION BASIN</p> <p>5. CONTINUE CLEARING AND GRUBBING</p> <p>6. STOCK PILE TOP SOIL IF REQUIRED</p> <p>7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED</p> <p>8. STABILIZE DISTURBED AREAS AND STOCKPILES AS SOON AS PRACTICABLE</p>	<p>9. INSTALL UTILITIES, STORM SEWER, CURBS &amp; GUTTER.</p> <p>10. APPLY BASE TO PROJECT</p> <p>11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING</p> <p>12. COMPLETE FINAL PAVING</p> <p>13. REMOVE ACCUMULATED SEDIMENT FROM BASINS</p> <p>14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED</p>
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<p style="text-align: center;"><b>TIMING OF CONTROLS/MEASURES</b></p> <p>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 &amp; TURBIDITY CONTROL PLAN.</p>		
<p style="text-align: center;"><b>CONTROLS</b></p> <p>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 CONTRACTOR'S 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.</p> <p>STORM WATER MANAGEMENT STORM WATER DRAINAGE WILL BE PROVIDED BY (DESCRIPTION): DETENTION PONDS</p> <p>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 3.82± ACRES WILL HAVE BEEN REGRADED, 0.00± 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.</p>		
<p style="text-align: center;"><b>TIMING OF CONTROLS/MEASURES</b></p> <p>REFER TO " CONTRACTORS RESPONSIBILITY" FOR THE TIMING OF CONTROL/MEASURES.</p>		
<p style="text-align: center;"><b>CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS</b></p> <p>IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS RELATED TO STORM WATER MANAGEMENT AND EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED.</p> <p>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 # _____</p>		
<p style="text-align: center;"><b>POLLUTION PREVENTION PLAN CERTIFICATION</b></p> <p>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.</p> <p>SIGNED: _____ ENGINEER: WILLIAM E SCHAEFER, II #40229</p> <p>DATED: _____</p>		

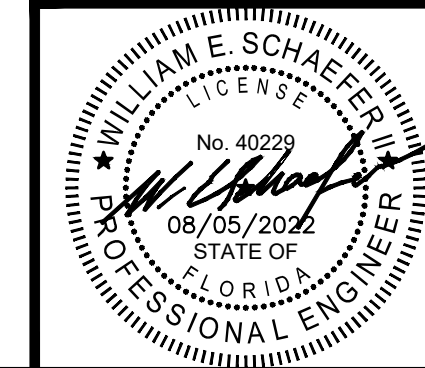
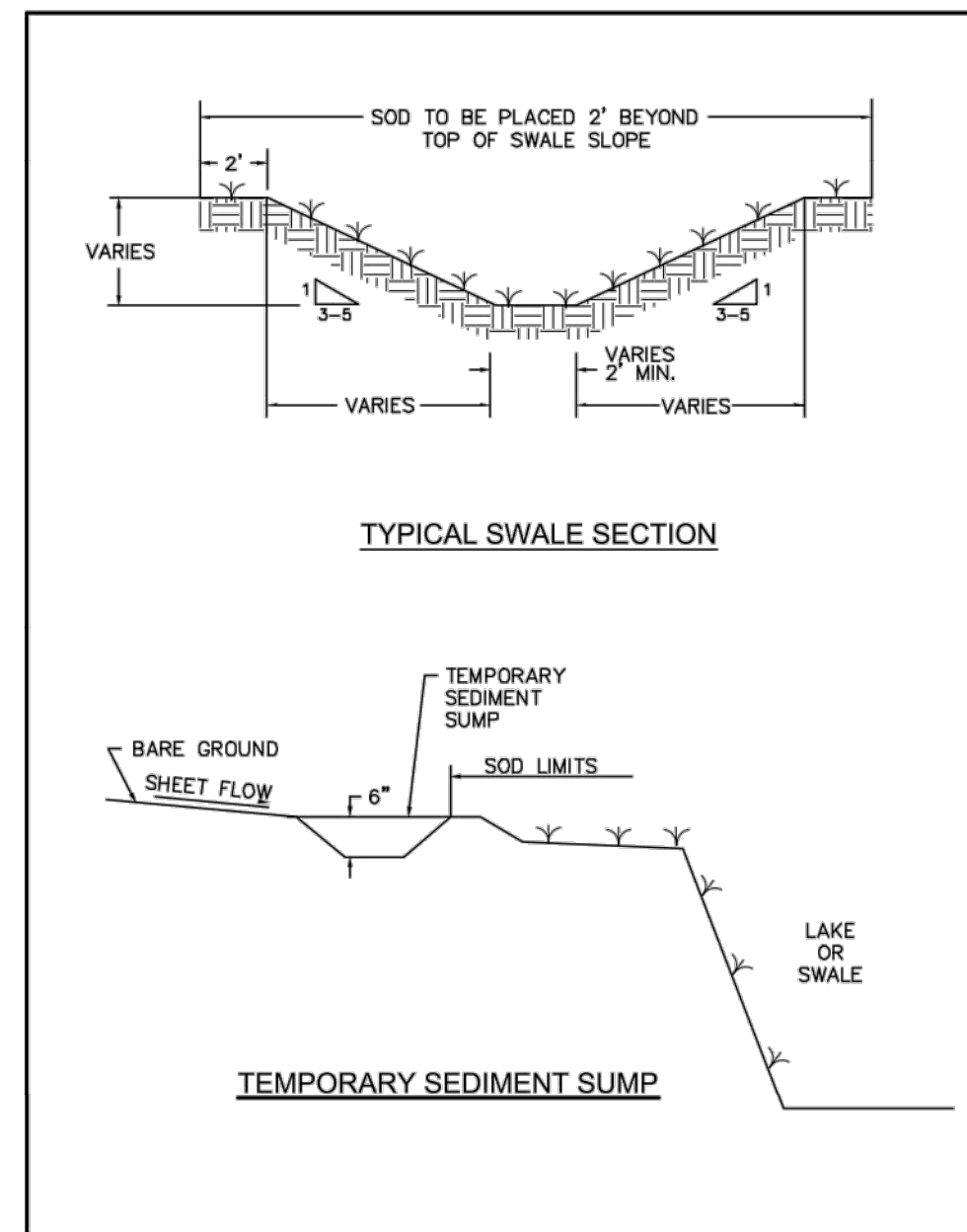
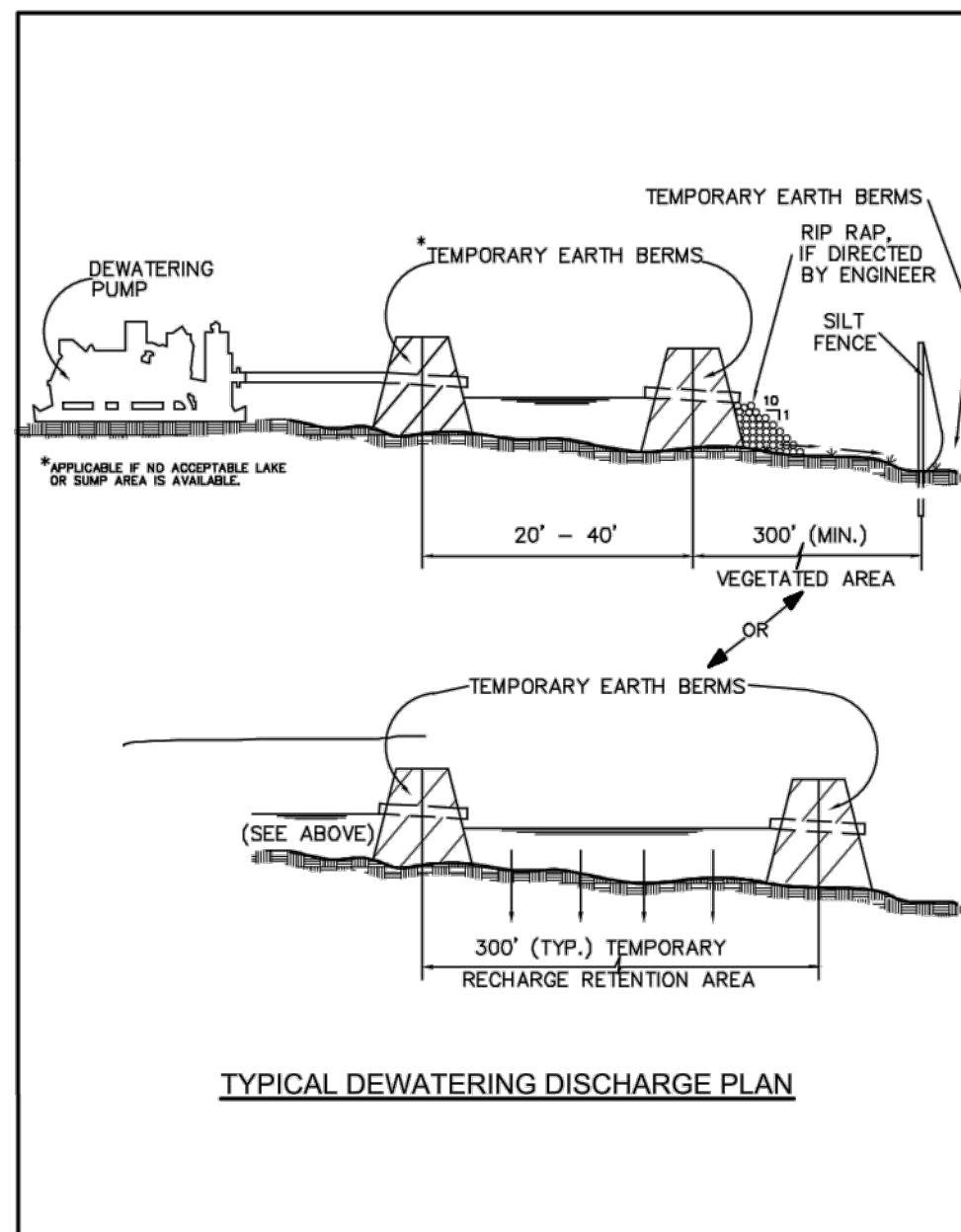
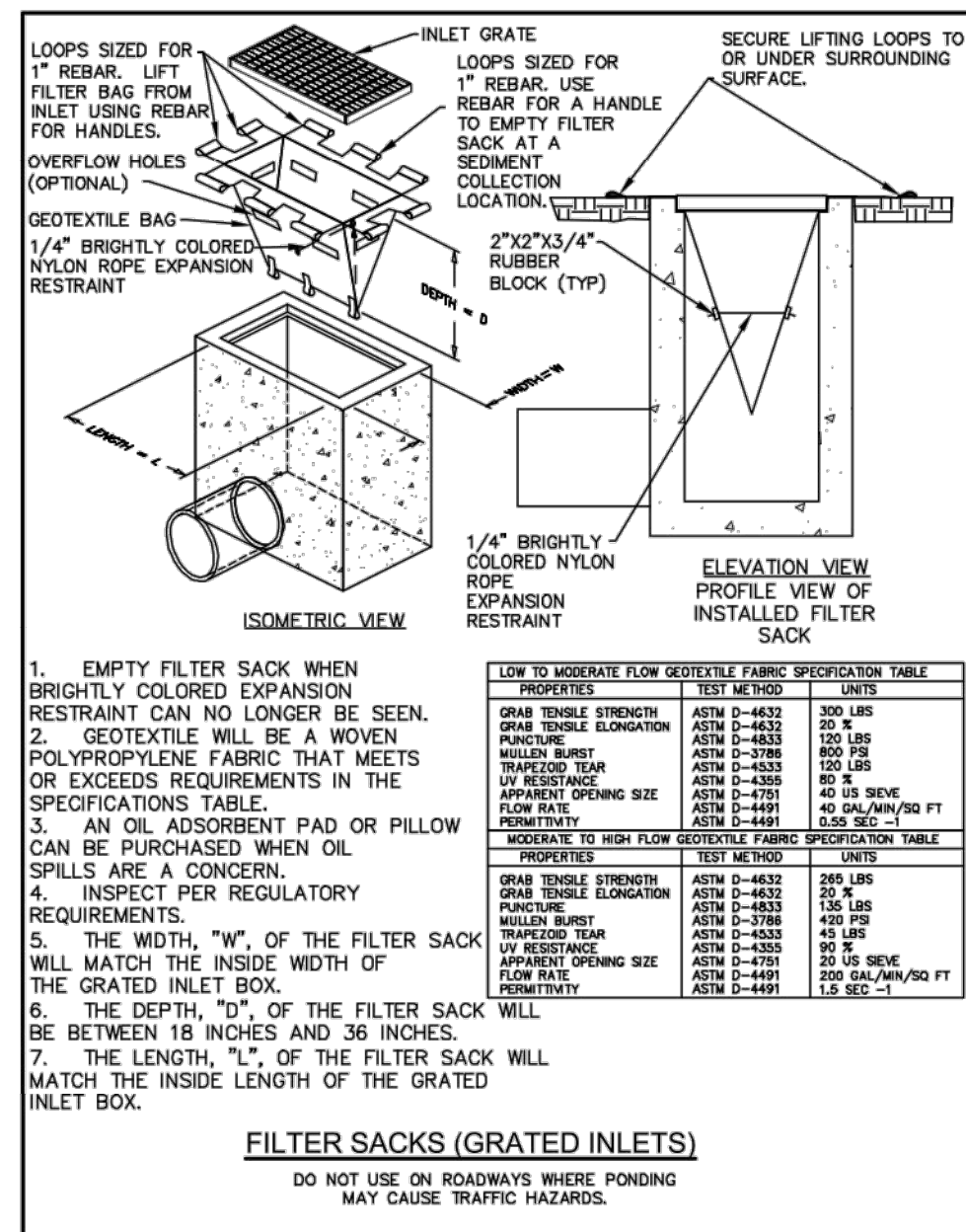
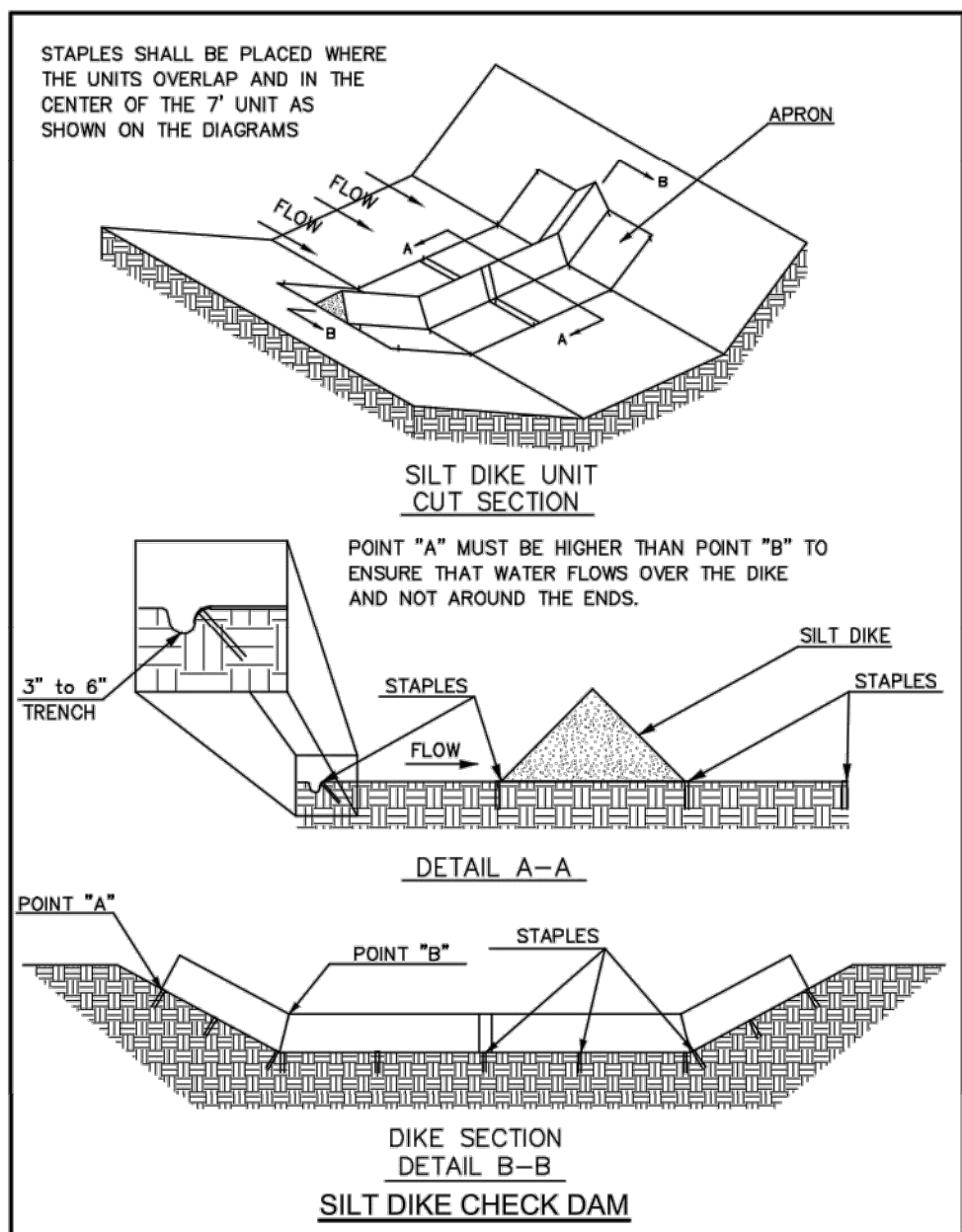
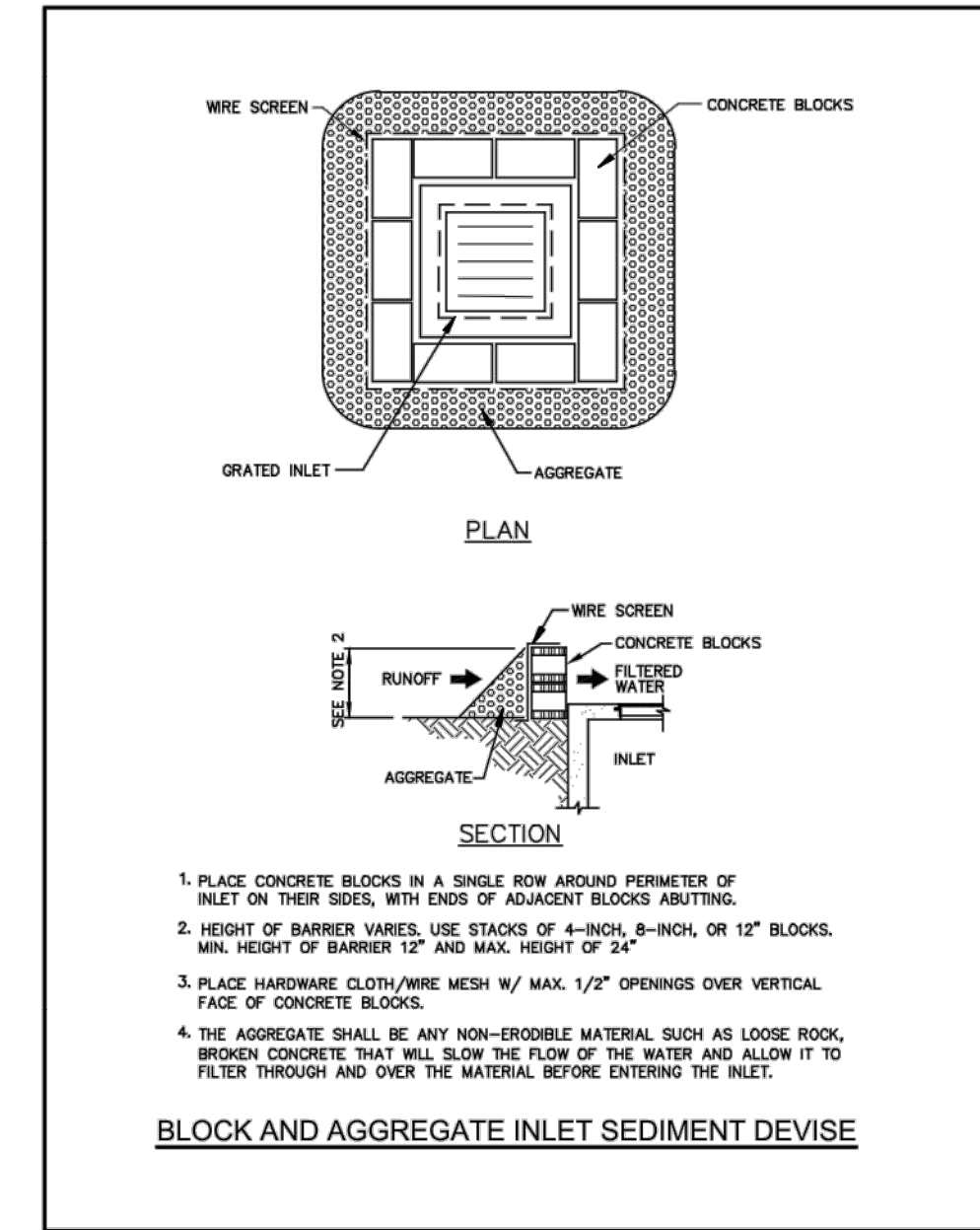
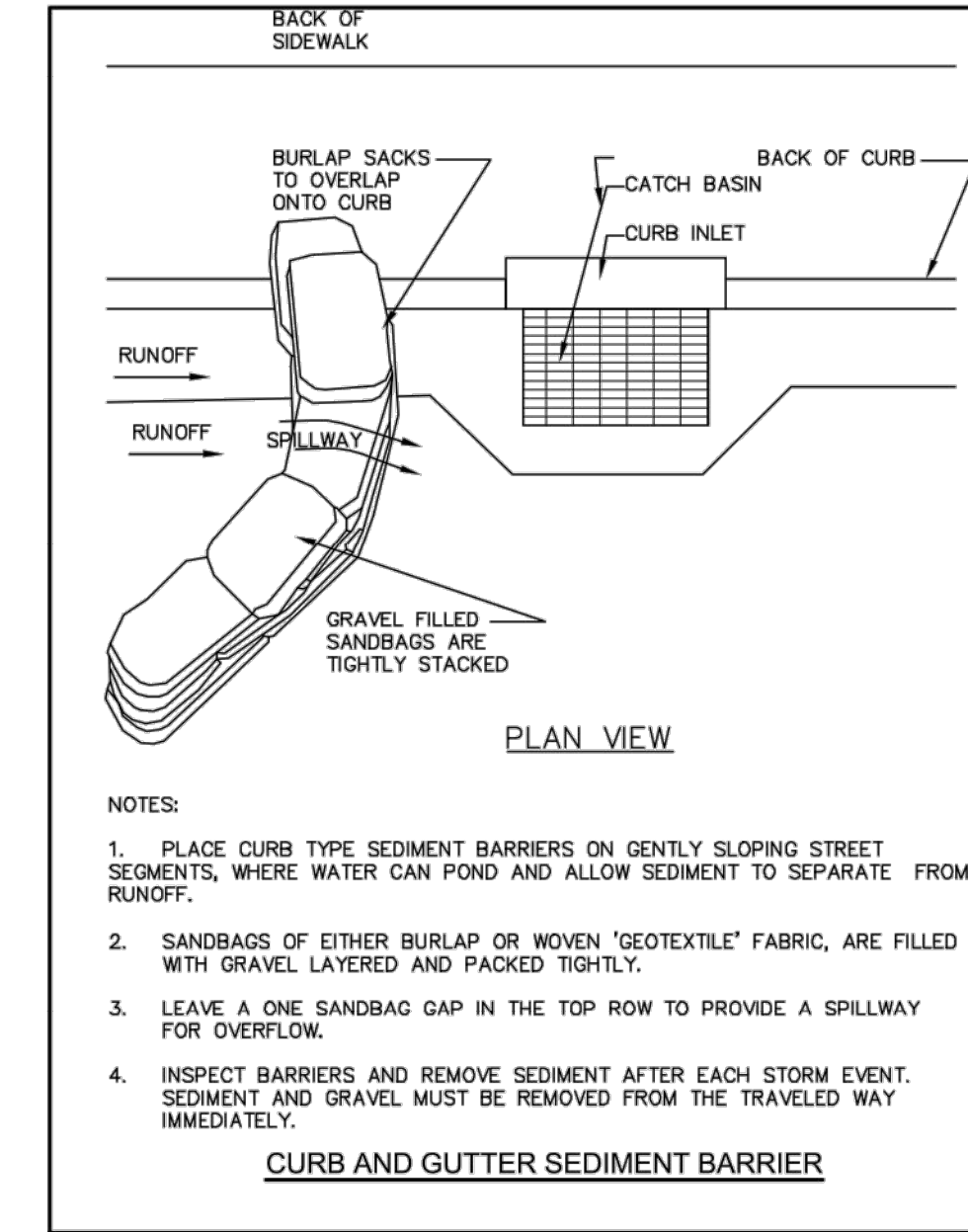
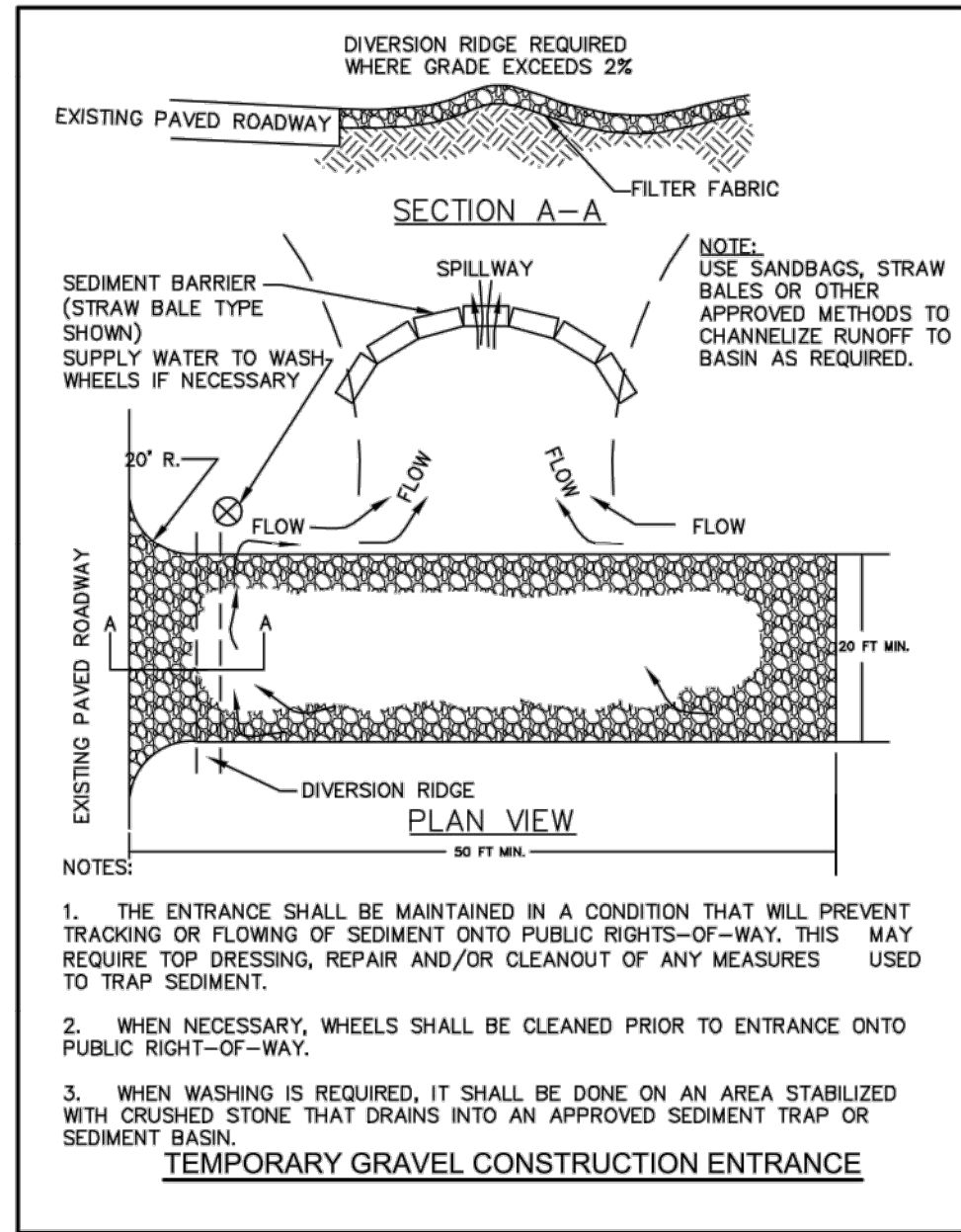
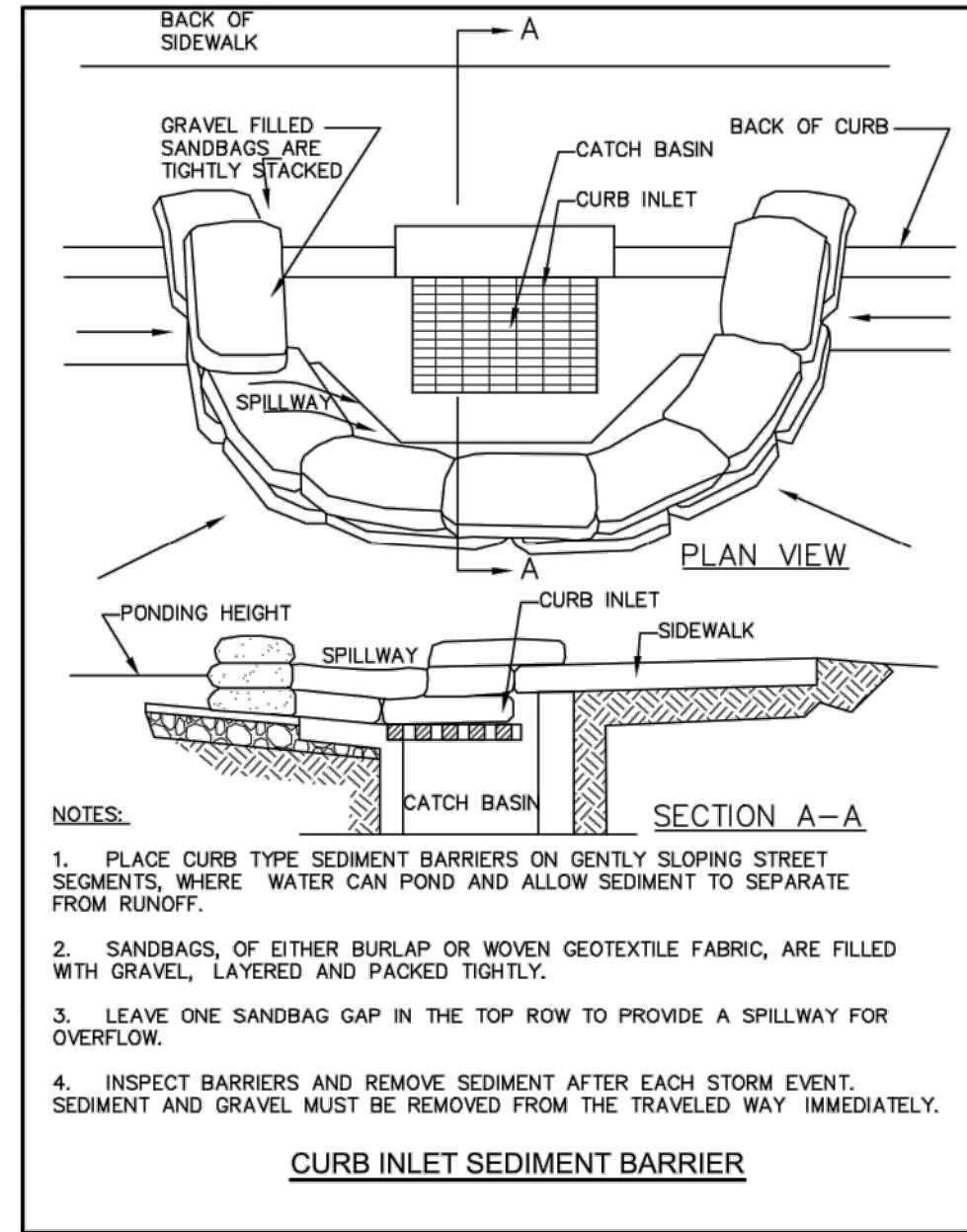
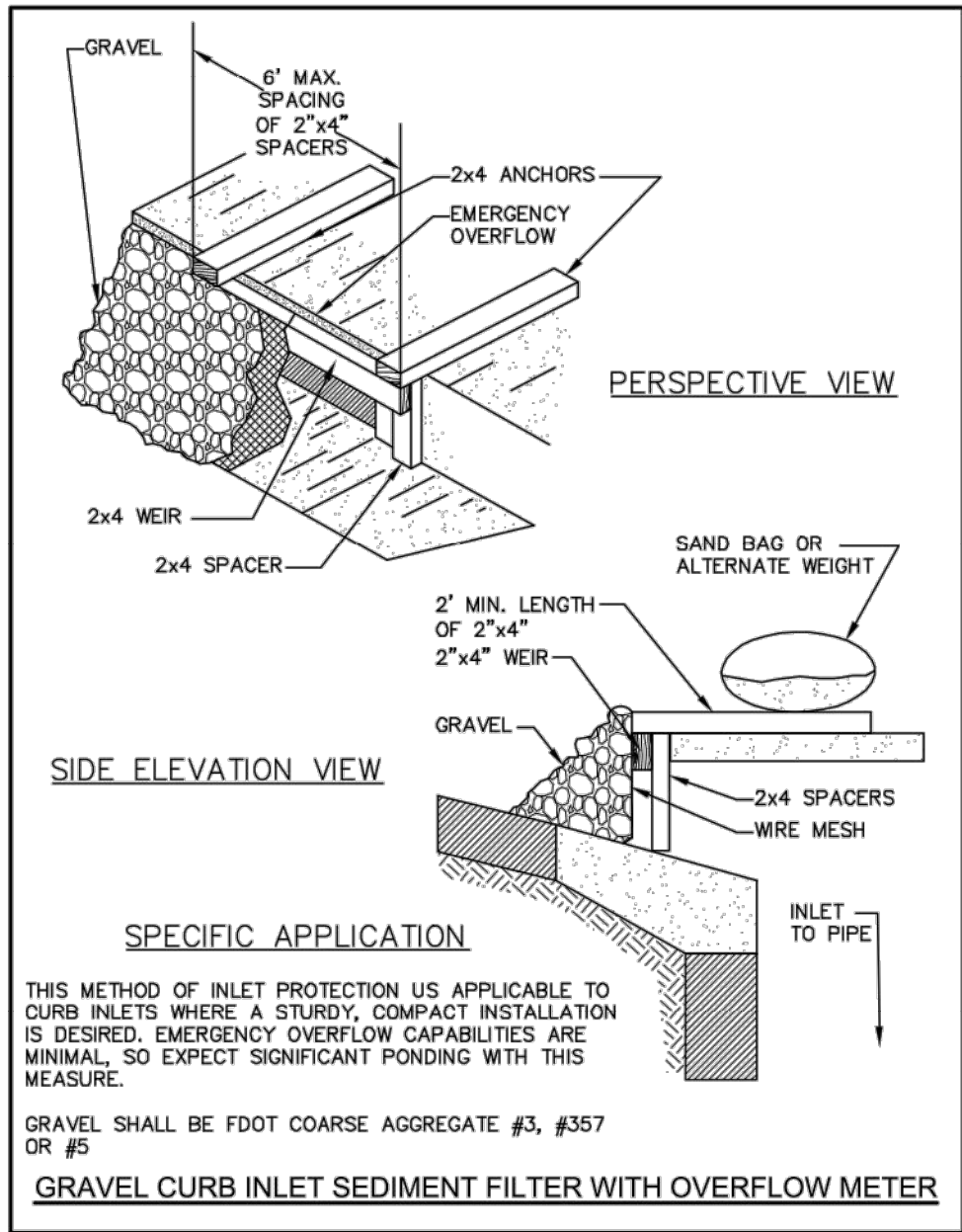
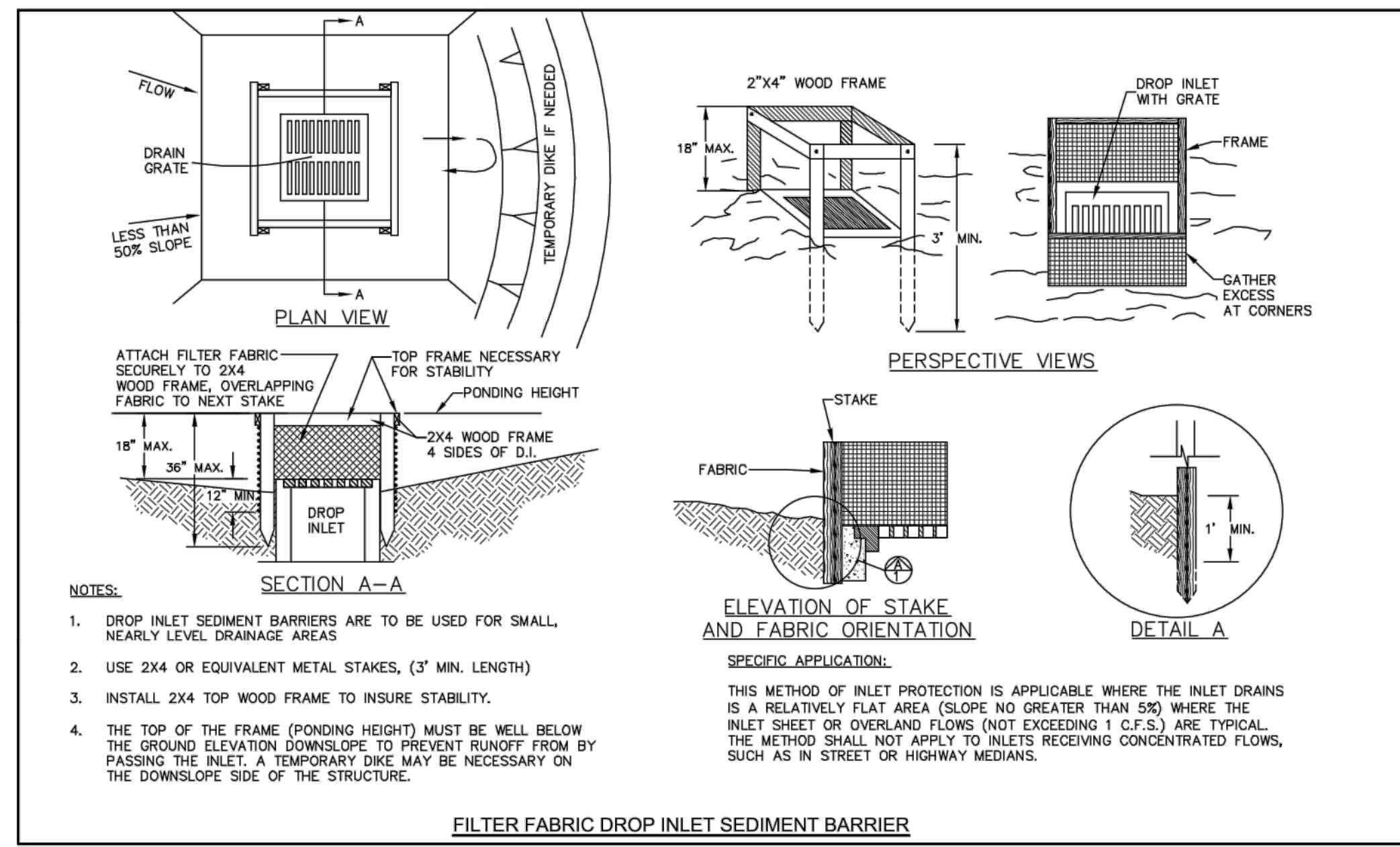
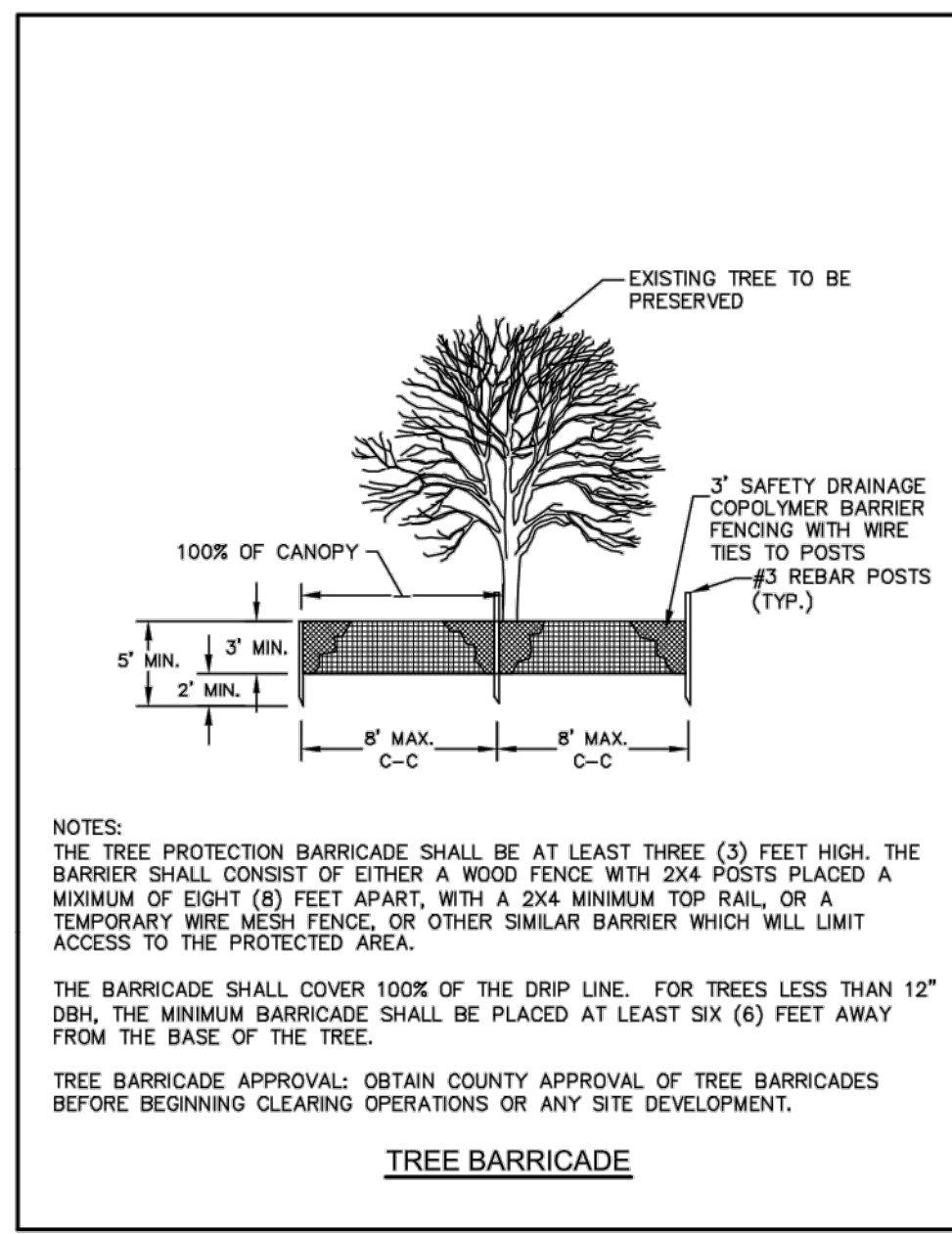
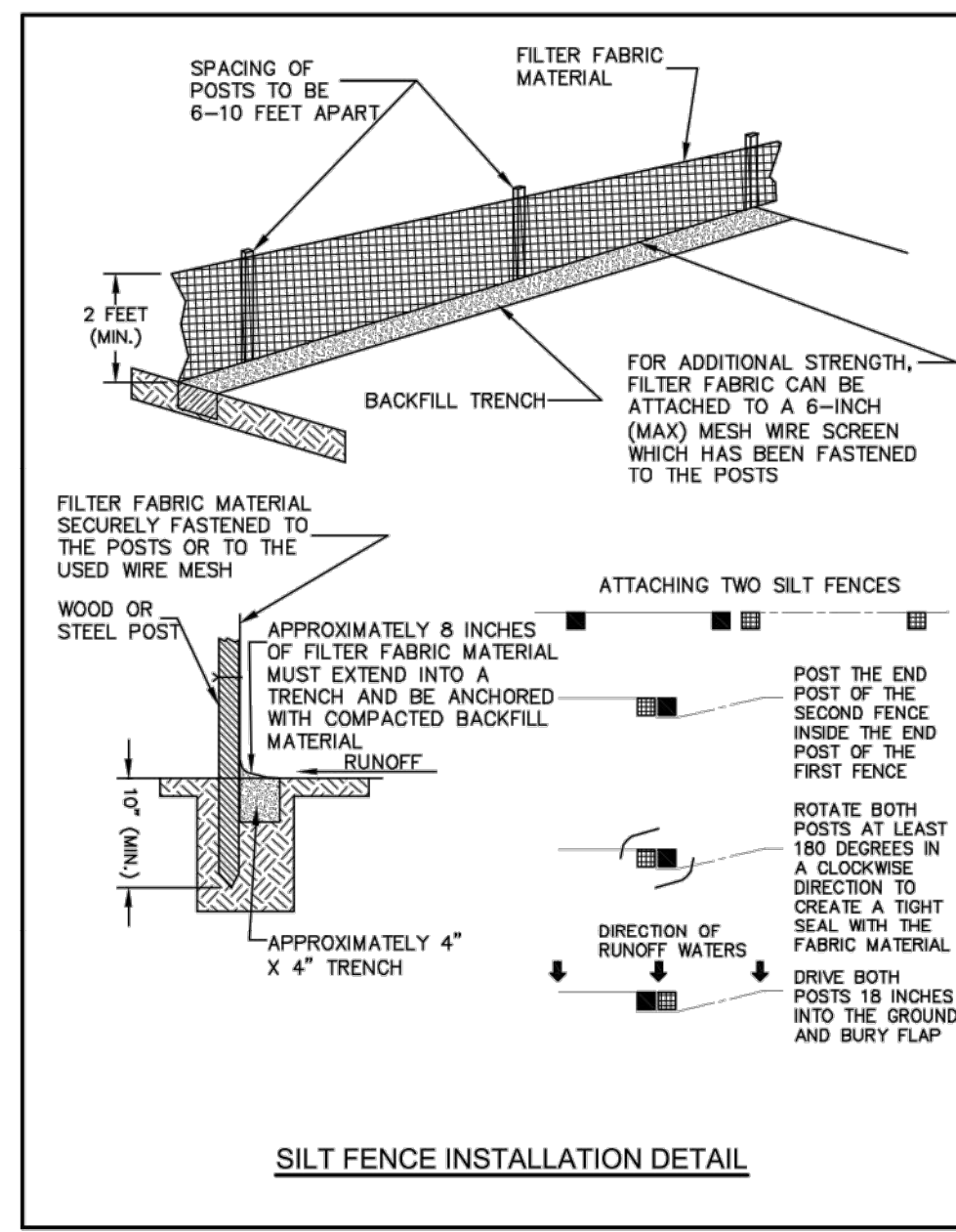
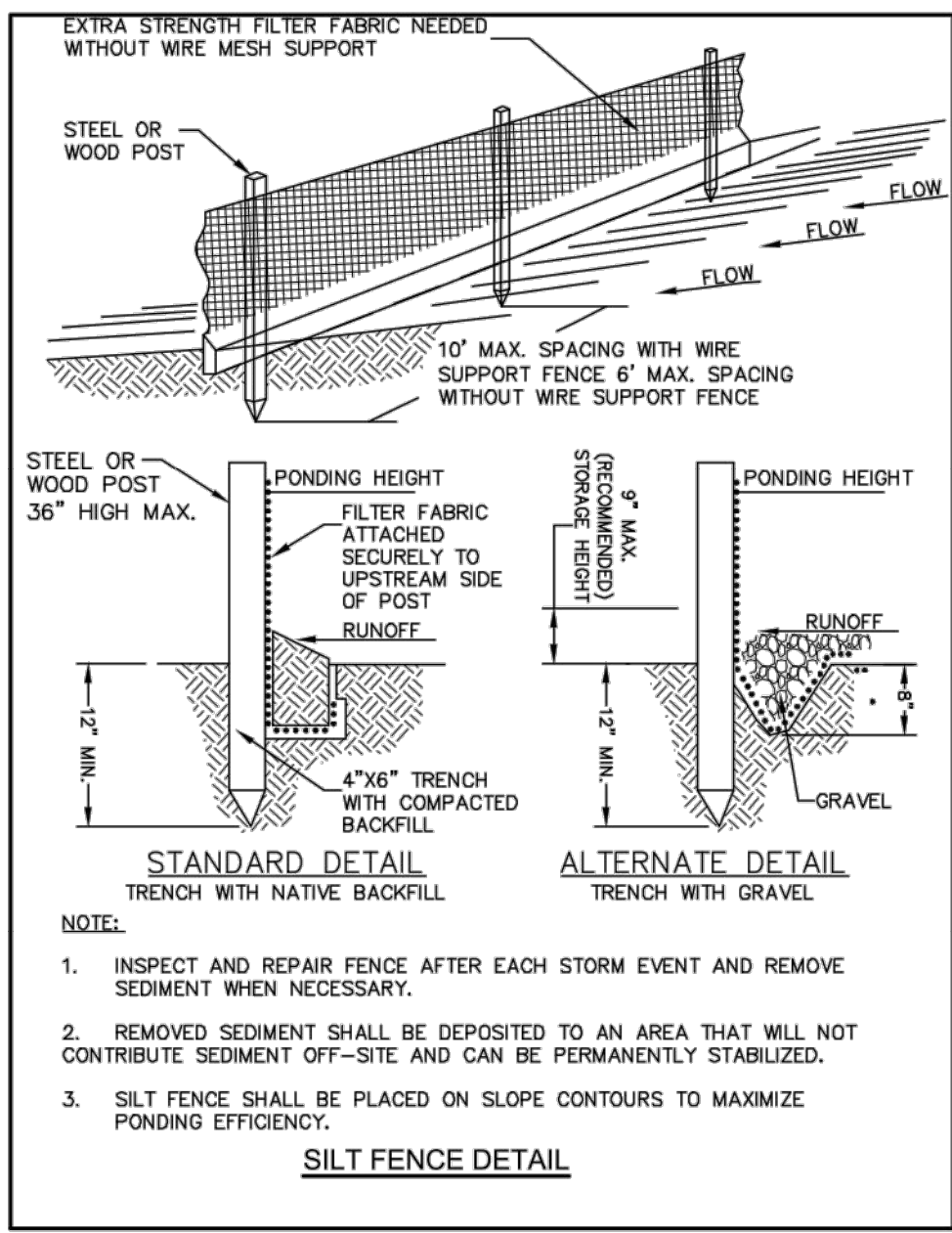
CONTRACTOR'S REQUIREMENTS												
<p>CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL UP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE. LEVEL SPREADER SHALL BE CONSTRUCTED IN ACCORDANCE TO CITY STANDARD DETAIL D-914.</p> <p>5. STOCKPILED MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.</p> <p>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.</p> <p>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.</p> <p>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 COMPETE WITH THE PERMANENT GRASSING.</p> <p>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.</p> <p>10. TEMPORARY GRASSING: THE SEEDED OR SEEDING 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 &amp; AMOUNT REQUIRED FOR PERMANENT GRASSING IN THE CONTRACT SPECIFICATIONS.</p> <p>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.</p> <p>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.</p> <p>13. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.</p> <p>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.</p> <p>STRUCTURAL PRACTICES</p> <p>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.</p> <p>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.</p> <p>THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE:</p> <p>A. BLOCK &amp; 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.</p> <p>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 &amp; UNPROTECTED AREAS. REFER TO D-903 FOR CONSTRUCTION OF CURB INLET &amp; DROP SEDIMENT TRAP.</p> <p>C. DROP INLET SEDIMENT TRAP - THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (S &lt; 5%) AND WHERE SHEET OR OVERLAND FLOWS (Q &lt; 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 &amp; FABRIC SEDIMENT FILTER.</p> <p>3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION &amp; SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES &amp; HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.</p> <p>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.</p> <p>HAZARDOUS PRODUCTS</p> <p>THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</p> <p>* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.</p> <p>* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.</p> <p>* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.</p> <p>PRODUCT SPECIFIC PRACTICES</p> <p>THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</p> <p>PETROLEUM PRODUCTS</p> <p>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.</p> <p>FERTILIZERS</p> <p>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.</p> <p>PAINTS</p> <p>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 MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.</p> <p>CONCRETE TRUCKS</p> <p>CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.</p> <p style="text-align: center;">SPILL CONTROL PRACTICES</p> <p>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:</p> <p>MANUFACTURER'S 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.</p> <p>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, SANDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.</p> <p>ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.</p> <p>THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.</p> <p>SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.</p> <p>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.</p> <p>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 APPLICABLE, IN THE OFFICE TRAILER ONSITE.</p> <p style="text-align: center;">MAINTENANCE/INSPECTION PROCEDURES</p> <p>EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES</p> <p>THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.</p> <p>* NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.</p> <p>* 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.</p> <p>* 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.</p> <p>* BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.</p> <p style="text-align: center;">CONTRACTOR'S CERTIFICATION</p> <p>I CERTIFY BELOW UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.</p>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">RESPONSIBLE FOR/DUTIES</th> <th style="text-align: center;">GENERAL CONTRACTOR</th> <th style="text-align: center;">SUB-CRONTACTOR</th> <th style="text-align: center;">SUB-CRONTACTOR</th> <th style="text-align: center;">SUB-CRONTACTOR</th> <th style="text-align: center;">SUB-CRONTACTOR</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">BUSINESS NAME AND ADDRESS OF CONTRACTOR &amp; ALL SUBS</td> <td style="text-align: center;">SIGNATURE</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	RESPONSIBLE FOR/DUTIES	GENERAL CONTRACTOR	SUB-CRONTACTOR	SUB-CRONTACTOR	SUB-CRONTACTOR	SUB-CRONTACTOR	BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS	SIGNATURE				
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 C.A. NUMBER: 26821 www.dom-eng.com

**GRAYLON OAKS**  
**FOR**  
**GRAYLON OAKS LAND TRUST**  
**SWPPP-CONTRACTOR'S REQUIREMENTS**

PLOT DATE:  
 DRAWN BY: JMM  
 DESIGNED BY: WES  
 CHECKED BY: WES  
 SCALE: AS NOTED  
 JOB NO.:  
 © LATEST DATE HEREON SHEET NO.  
**C11**  
 OF





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**GRAYLON OAKS FOR GRAYLON OAKS LAND TRUST**  
EROSION AND SEDIMENT CONTROL DETAILS

**REVISIONS**

NO.	DESCRIPTION

**PLOT DATE:**  
**DRAWN BY:** JMM  
**DESIGNED BY:** WES  
**CHECKED BY:** WES  
**SCALE:** AS NOTED  
**JOB NO.:**  
**© LATEST DATE HEREON SHEET NO. C12**  
OF

PROJECT:

STORM WATER POLLUTION PREVENTION PLAN  
INSPECTION AND MAINTENANCE REPORT FORM

TO BE COMPLETED EVERY 7 DAYS AND WITHIN 24 HOURS OF  
A RAINFALL EVENT OF 0.50 INCHES OR MORE

INSPECTOR:

DATE:

INSPECTOR'S QUALIFICATIONS:

DAYS SINCE LAST RAINFALL:

AMOUNT OF LAST RAINFALL \_\_\_\_\_ INCHES

STABILIZATION MEASURES

INSPECTION AREA (DESCRIPTION OF LOCATION)	DATE SINCE LAST DISTURBED	DATE OF NEXT DISTURBANCE	STABILIZED ? (YES/NO)	STABILIZED WITH	CONDITION

STABILIZATION REQUIRED:

TO BE PERFORMED BY: \_\_\_\_\_

ON OR BEFORE: \_\_\_\_\_

PAGE 1 OF 4

PROJECT:

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 CLOGGING/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  
SEDIMENT BASIN

DEPTH OF SEDIMENT IN BASIN	IS THE GRAVEL CLEAN OR IS IT FILLED WITH SEDIMENT?	DOES ALL TRAFFIC USE THE STABILIZED ENTRANCE TO LEAVE THE SITE ?	IS THE CULVERT BENEATH THE ENTRANCE WORKING? (IF APPLICABLE)

MAINTENANCE REQUIRED FOR SEDIMENT BASIN:

TO BE PERFORMED BY: \_\_\_\_\_

ON OR BEFORE: \_\_\_\_\_

OTHER CONTROLS

STABILIZED CONSTRUCTION ENTRANCE

DOES MUCH SEDIMENT GET TRACKED ON TO ROAD ?	IS THE GRAVEL CLEAN OR IS IT FILLED WITH SEDIMENT?	DOES ALL TRAFFIC USE THE STABILIZED ENTRANCE TO LEAVE THE SITE ?	IS THE CULVERT BENEATH THE ENTRANCE WORKING? (IF APPLICABLE)

MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION ENTRANCE:

TO BE PERFORMED BY: \_\_\_\_\_

ON OR BEFORE: \_\_\_\_\_

PAGE 3 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 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.

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

PAGE 4 OF 4

NOTE TO CONTRACTOR:  
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.

GRAYLON OAKS  
FOR  
GRAYLON OAKS LAND TRUST  
SWPPP-CONTRACTOR'S CERTIFICATION

DOMINION ENGINEERING GROUP, INC.

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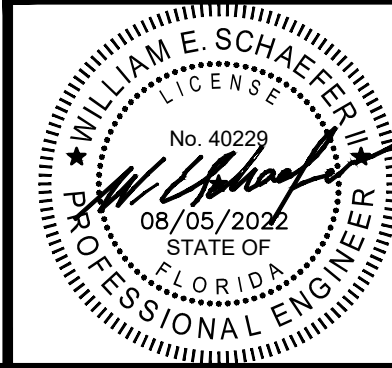
REVISIONS

PLOT DATE: \_\_\_\_\_  
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© LATEST DATE HEREON  
SHEET NO.

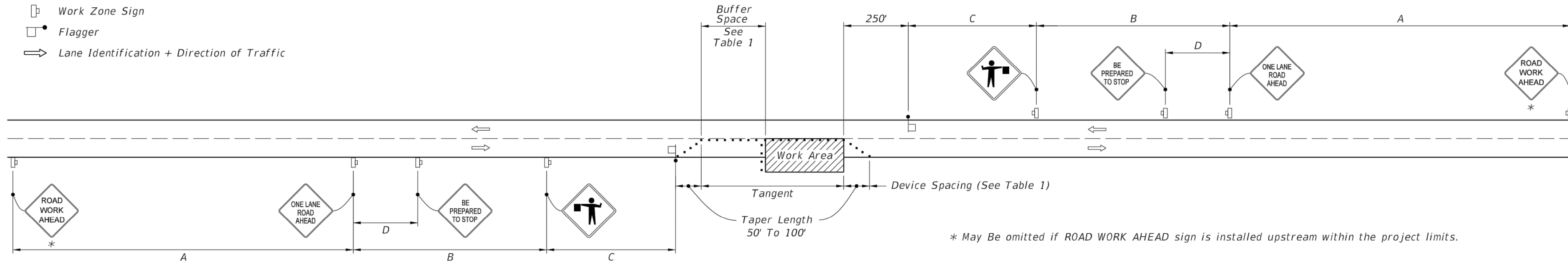
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OF \_\_\_\_\_



**SYMBOLS:**

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



**WITHOUT TEMPORARY RAISED RUMBLE STRIPS**

**GENERAL NOTES:**

1. Special Conditions may be required in accordance with these notes and the following sheets:
  - A. Railroad Crossings:
    - a. If an active railroad crossing is located closer to the Work Area than the queue length plus 300 feet, extend the Buffer Space as shown on Sheet 3.
    - b. If the queuing of vehicles across an active railroad crossing cannot be avoided, provide a uniformed traffic control officer or flagger at the highway-rail grade crossing to prevent vehicles from stopping within the highway-rail grade crossing, even if automatic train warning devices are in place.
  - B. If the Work Area encroaches on the Centerline, use the Layout for Temporary Lane Shift to Shoulder on Sheet 3 only if the Existing Paved Shoulder width is sufficient to provide for an 11' lane between the Work Area and the Edge of Existing Paved Shoulder. Reduce the posted speed when appropriate.
2. Temporary Raised Rumble Strips:
  - A. Use when both of the following conditions are met concurrently:
    - a. Existing Posted Speed is 55 mph or greater;
    - b. Work duration is greater than 60 minutes.
  - B. Use a consistent Strip color throughout the work zone.
  - C. Place each Rumble Strip Set transversely across the lane at locations shown.
  - D. Use Option 1 or Option 2 as shown on Sheet 2. Use only one option throughout work zone.
3. Additional one-way control may be provided by the following means:
  - A. Flag-carrying vehicle;
  - B. Official vehicle;
  - C. Pilot vehicles;
  - D. Traffic signals.

When flaggers are the sole means of one-way control, the flaggers must be in sight of each other or in direct communication at all times.
4. When a side road intersects the highway within the TTC zone, place additional TTC devices in accordance with other applicable TCZ Indexes.
5. The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
6. When Buffer Space cannot be attained due to geometric constraints, use the greatest attainable length, not less than 200 ft, for posted speeds greater than 25 mph.
7. ROAD WORK AHEAD and the BE PREPARED TO STOP signs may be omitted if all of the following conditions are met:
  - A. Work operations are 60 minutes or less.
  - B. Speed limit is 45 mph or less.
  - C. There are no sight obstructions to vehicles approaching the work area for a distance equal to the Buffer Space shown in Table 1.
  - D. Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
  - E. Volume and complexity of the roadway has been considered.
  - F. If a railroad crossing is present, vehicles will not queue across rail tracks.
  - G. AFADs are not in use.
8. See Index 102-600 for general TCZ requirements and additional information.
9. Automated Flagger Assistance Devices (AFADs) may be used in accordance with Specifications Section 102, 990 and the APL vendor drawings.


Posted Speed	DEVICE SPACING				Distance Between Signs				Buffer Space
	Maximum Spacing of Cones or Tubular Markers		Maximum Spacing of Type I or Type II Barricades/Panels/Drums		A	B	C	D	
	On a Taper	On a Tangent	On a Taper	On a Tangent					
25	20'	50'	20'	50'	200'	200'	200'	100'	155'
30	20'	50'	20'	50'	200'	200'	200'	100'	200'
35	20'	50'	20'	50'	200'	200'	200'	100'	250'
40	20'	50'	20'	50'	200'	200'	200'	100'	305'
45	20'	50'	20'	50'	350'	350'	350'	175'	360'
50	20'	50'	20'	100'	500'	500'	500'	250'	425'
55	20'	50'	20'	100'	2640'	1500'	1000'	500'	495'
60	20'	50'	20'	100'	2640'	1500'	1000'	500'	570'
65	20'	50'	20'	100'	2640'	1500'	1000'	500'	645'
70	20'	50'	20'	100'	2640'	1500'	1000'	500'	730'

**CONDITIONS**

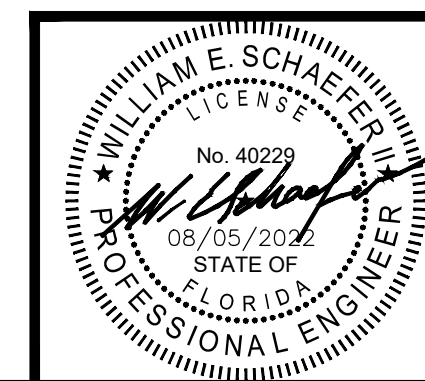
WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA BETWEEN THE CENTERLINE AND A LINE 2' OUTSIDE THE EDGE OF TRAVEL WAY.

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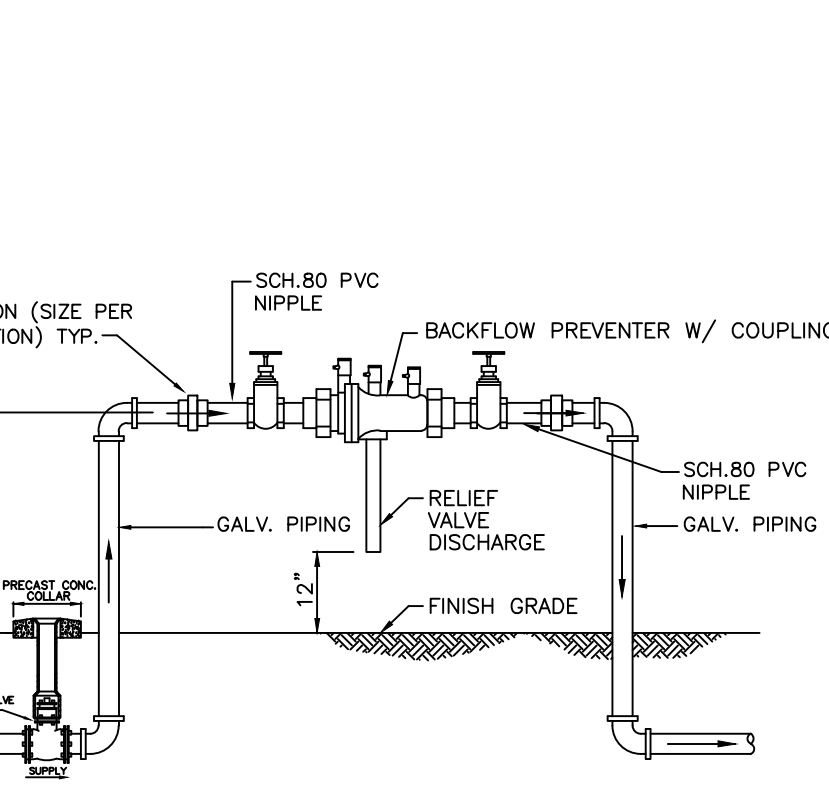
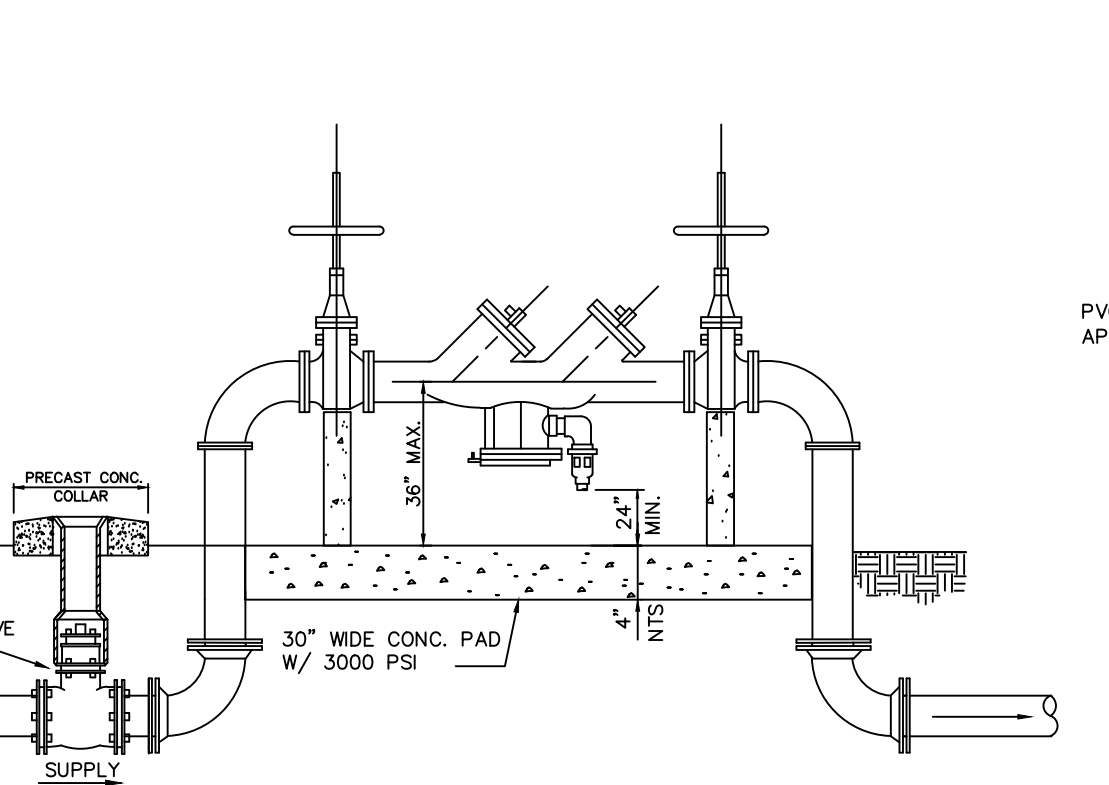
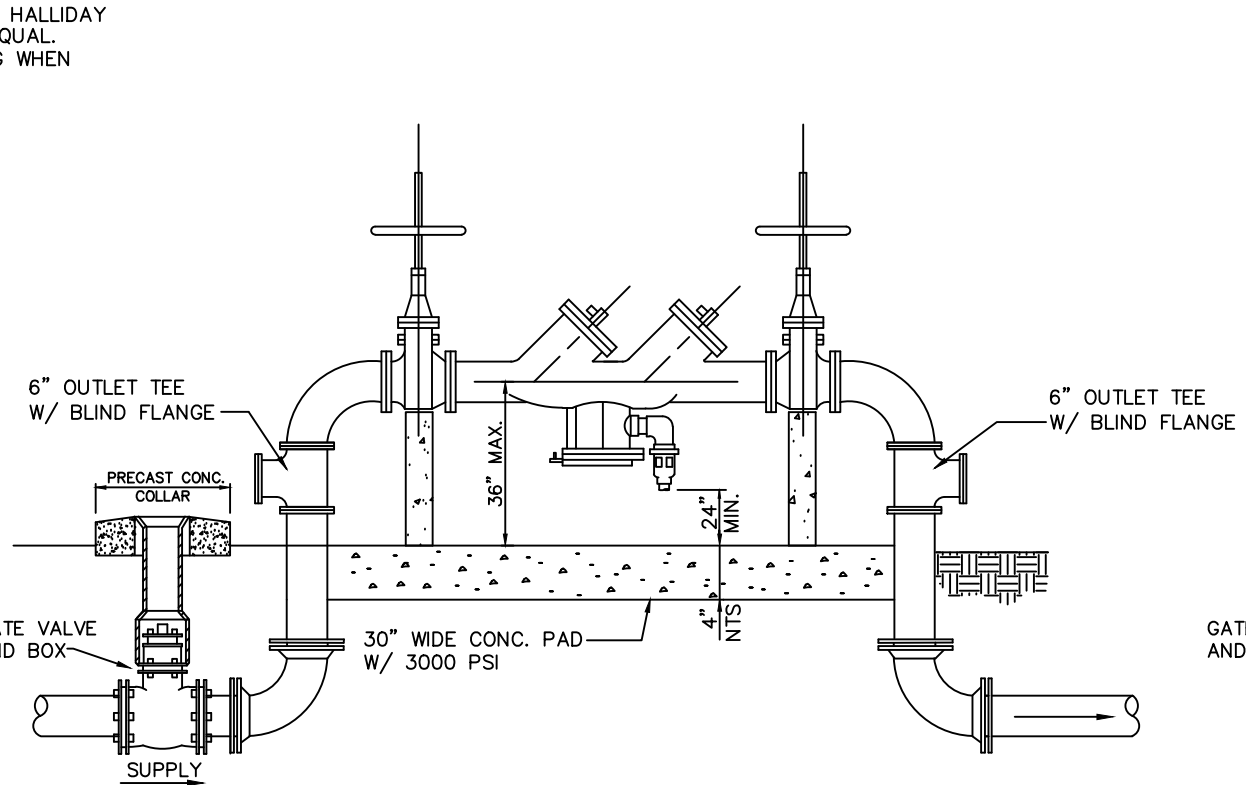
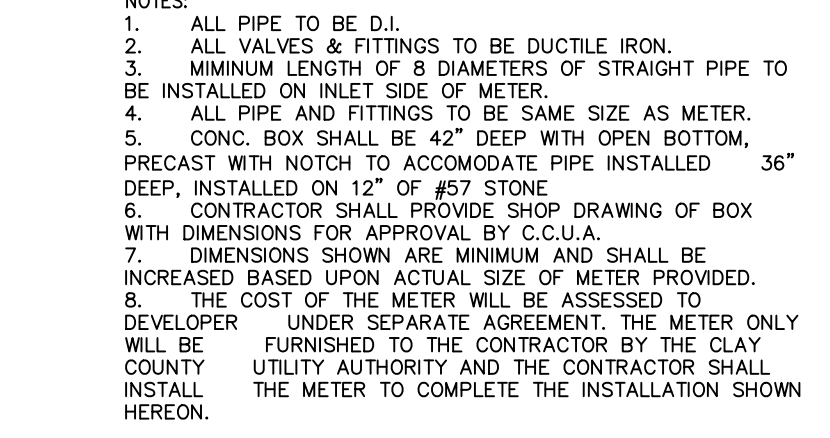
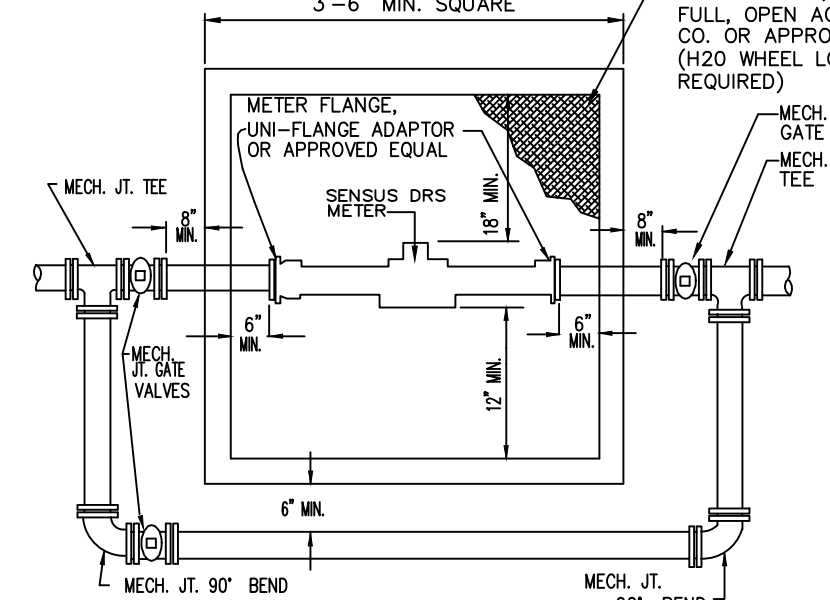
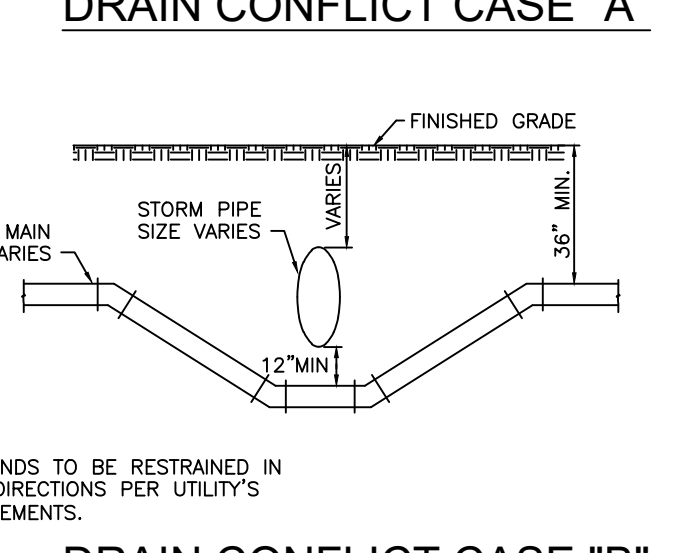
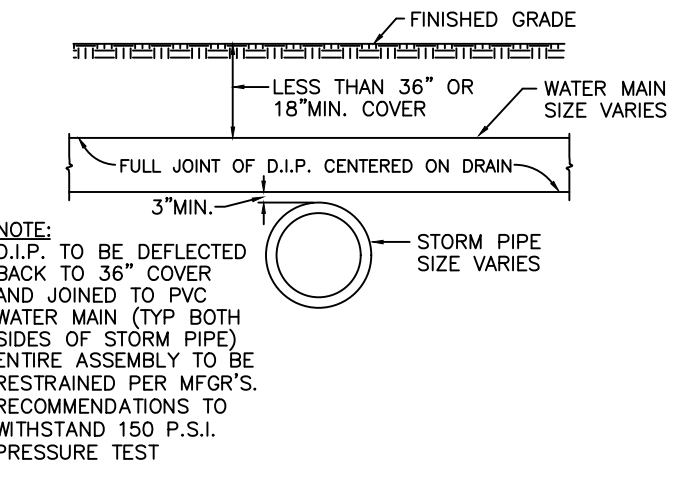
GRAYLON OAKS  
 FOR  
 GRAYLON OAKS LAND TRUST  
 MAINTENANCE OF TRAFFIC

LAST REVISION 11/01/17	DESCRIPTION:	 FY 2019-20 STANDARD PLANS	TWO-LANE, TWO-WAY, WORK WITHIN THE TRAVEL WAY	INDEX 102-603	SHEET 1 of 3
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REVISIONS
PLOT DATE: DRAWN BY: JMM DESIGNED BY: WES CHECKED BY: WES SCALE: AS NOTED JOB NO.: © LATEST DATE HEREON SHEET NO.
C14
OF







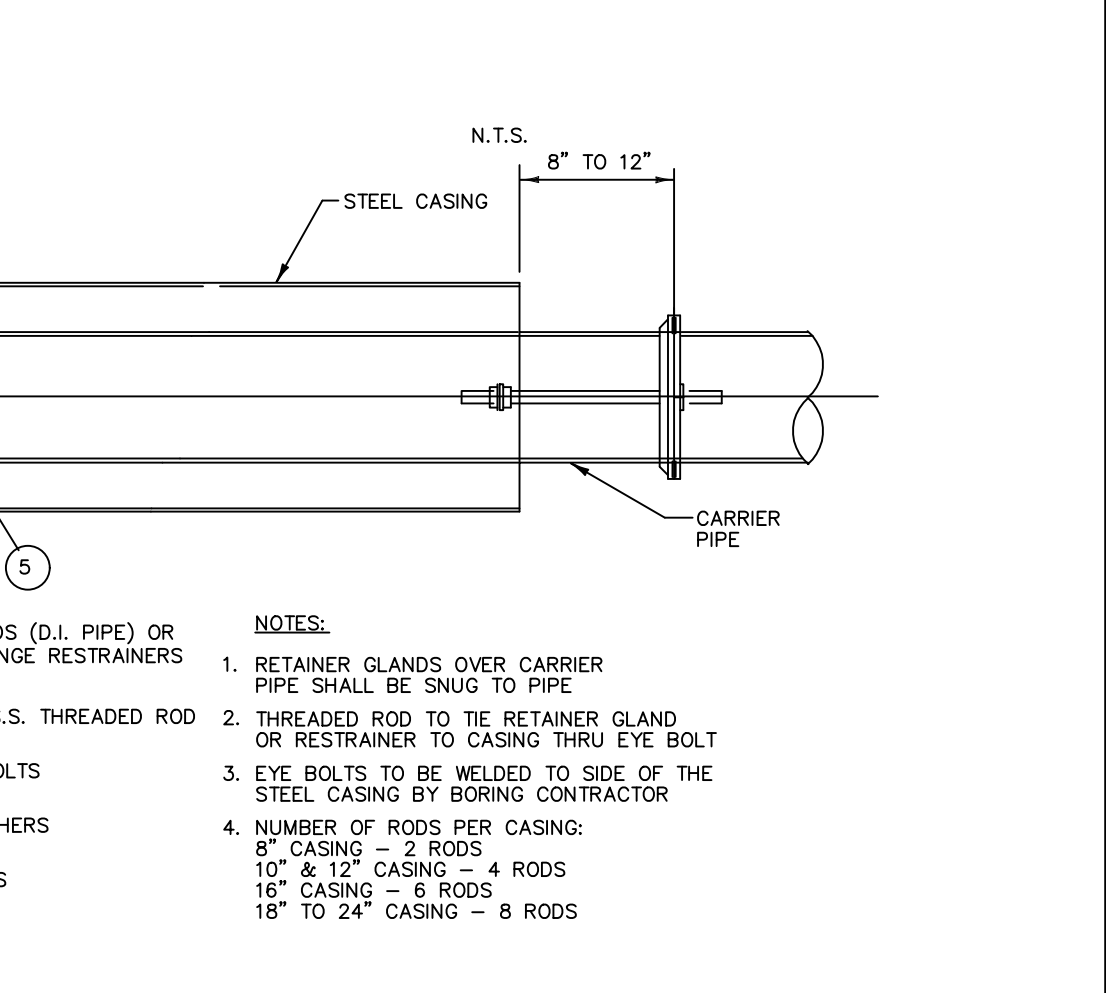
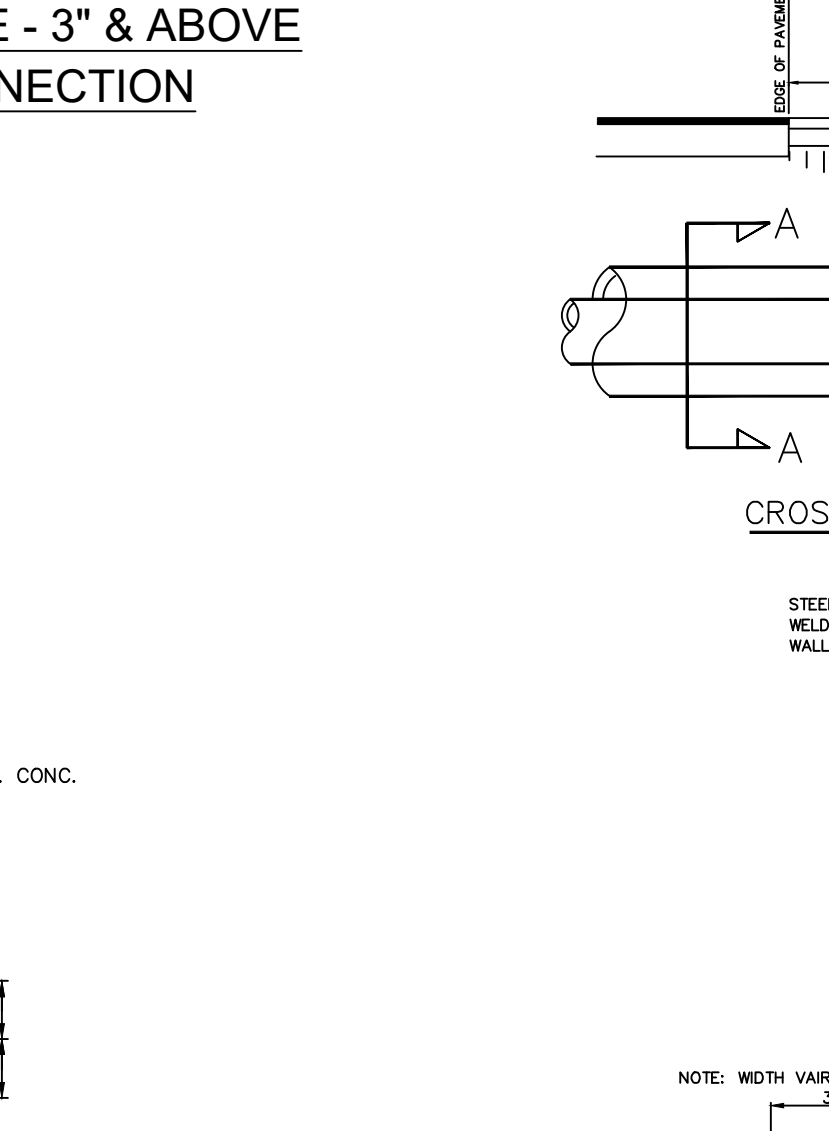
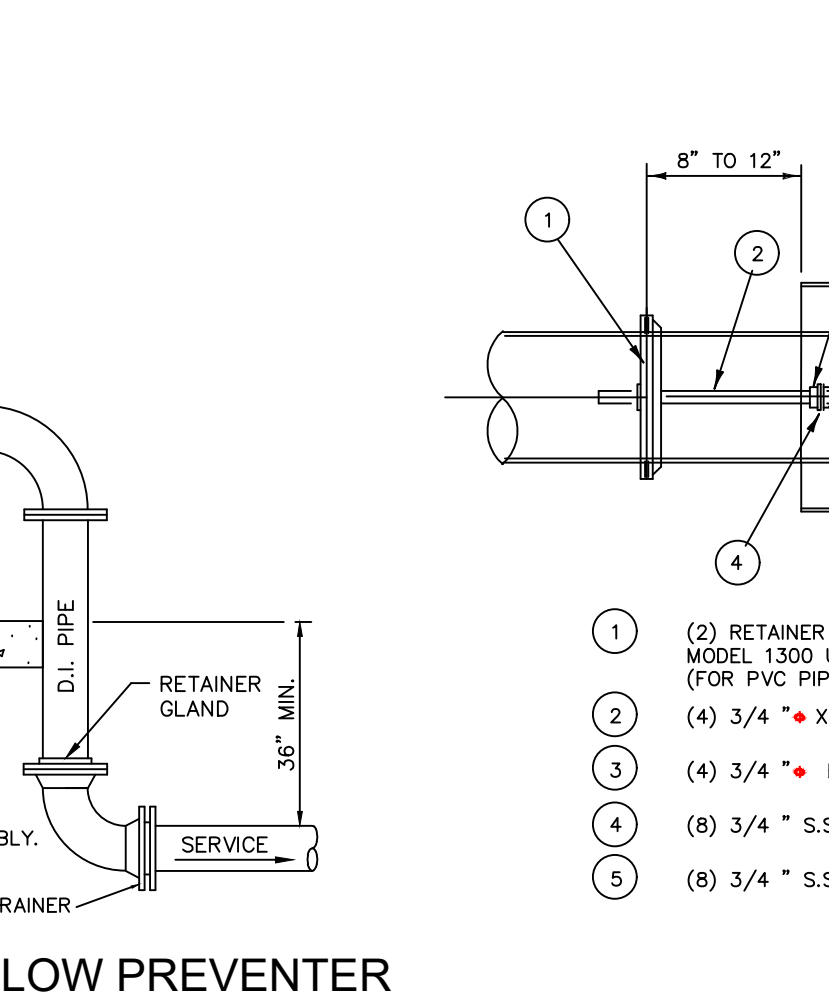
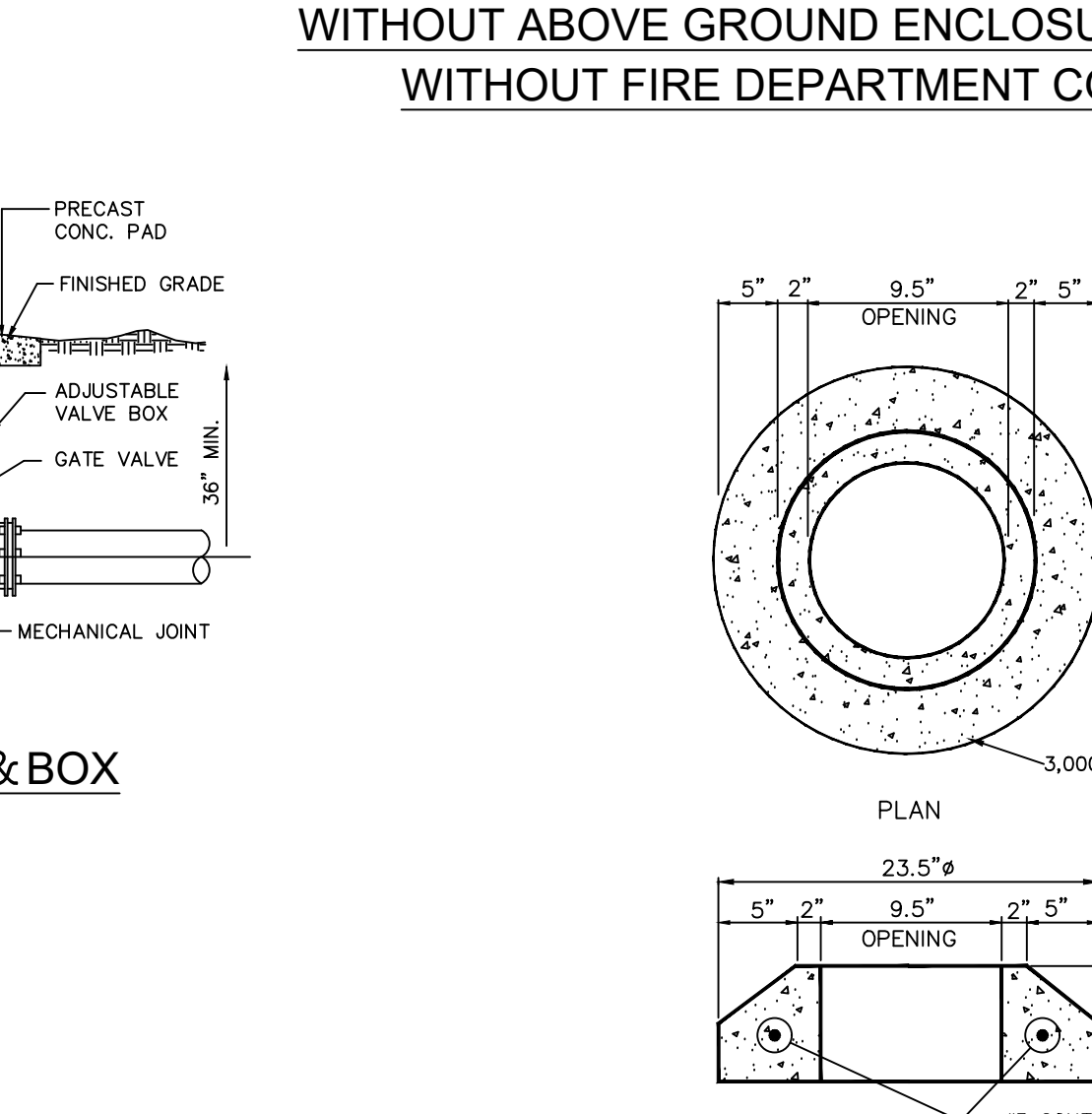
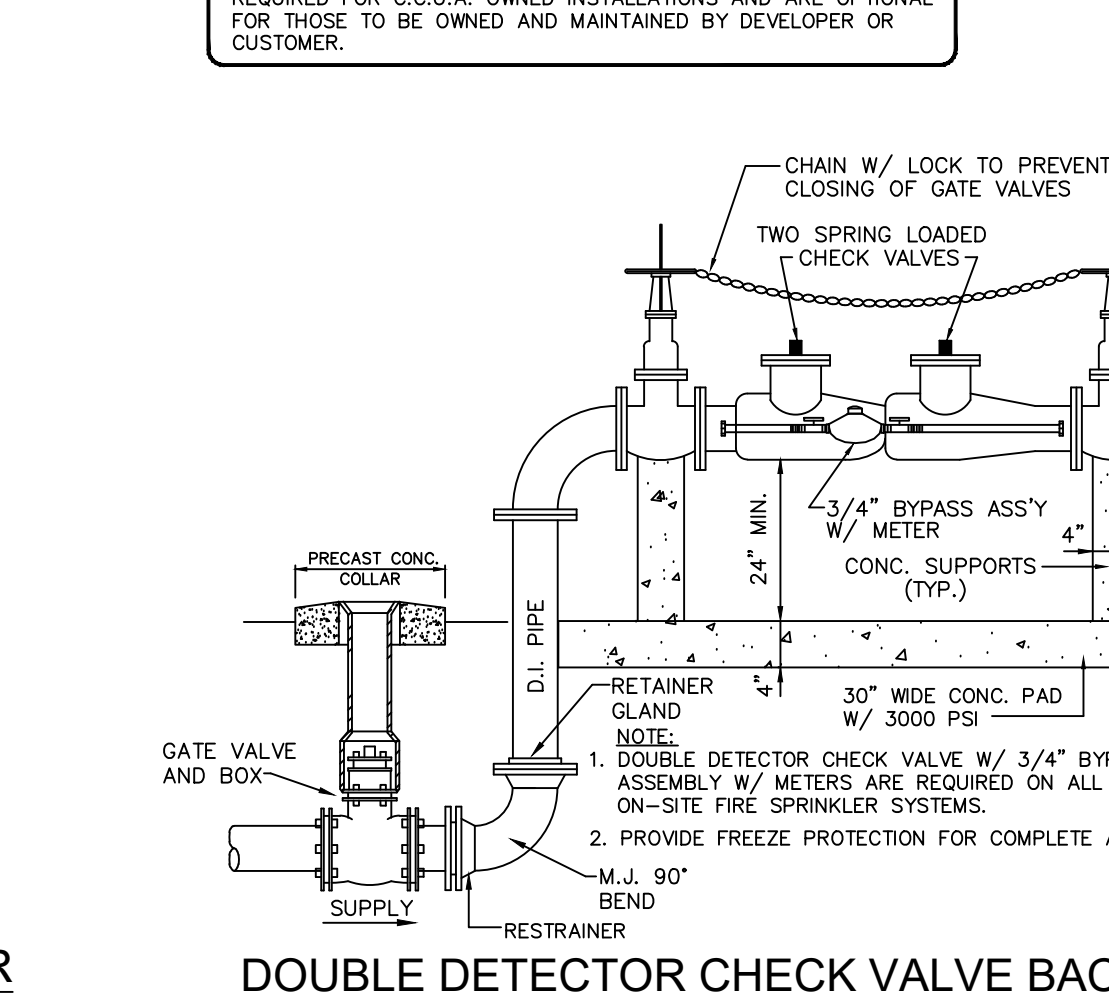
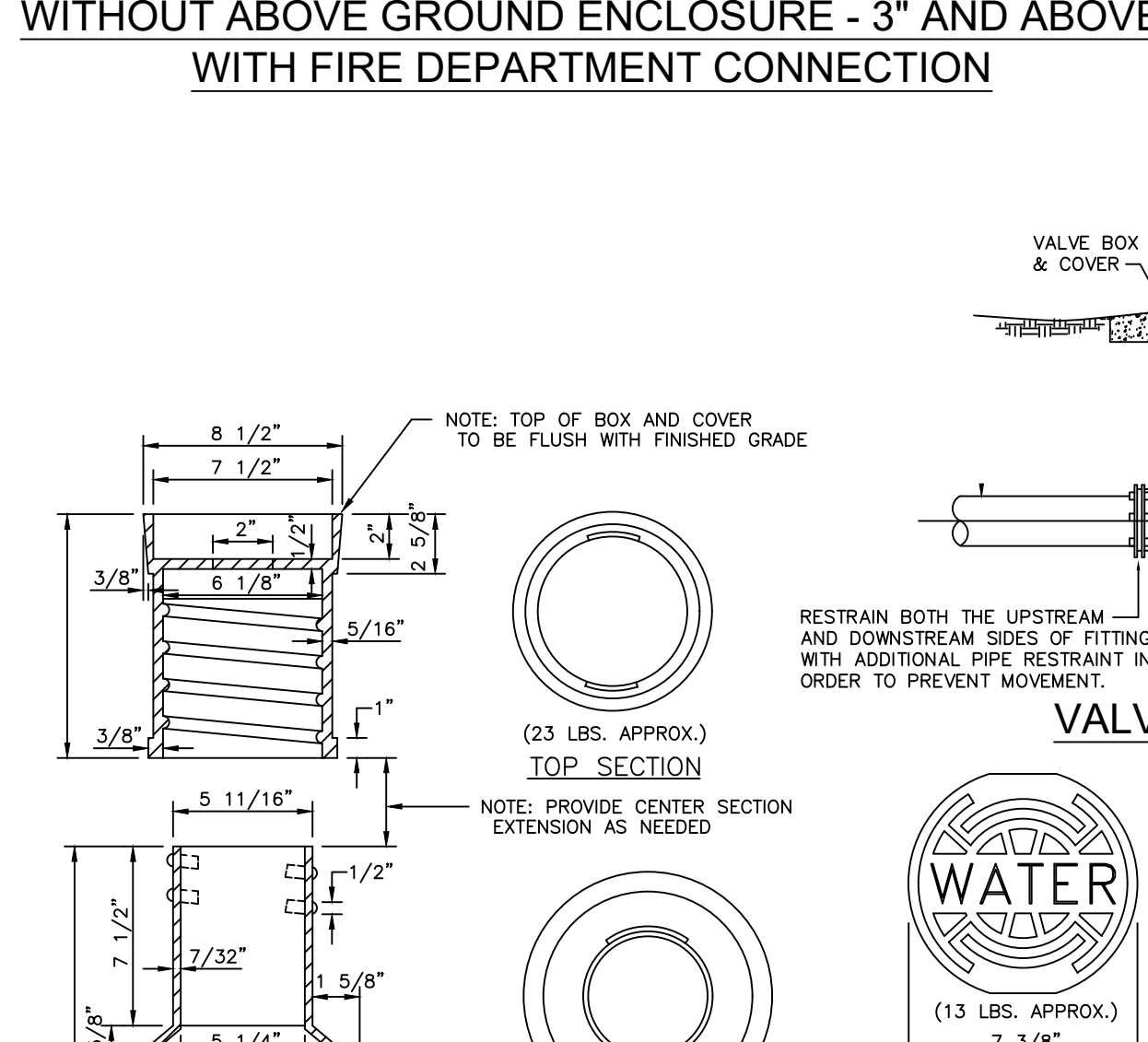
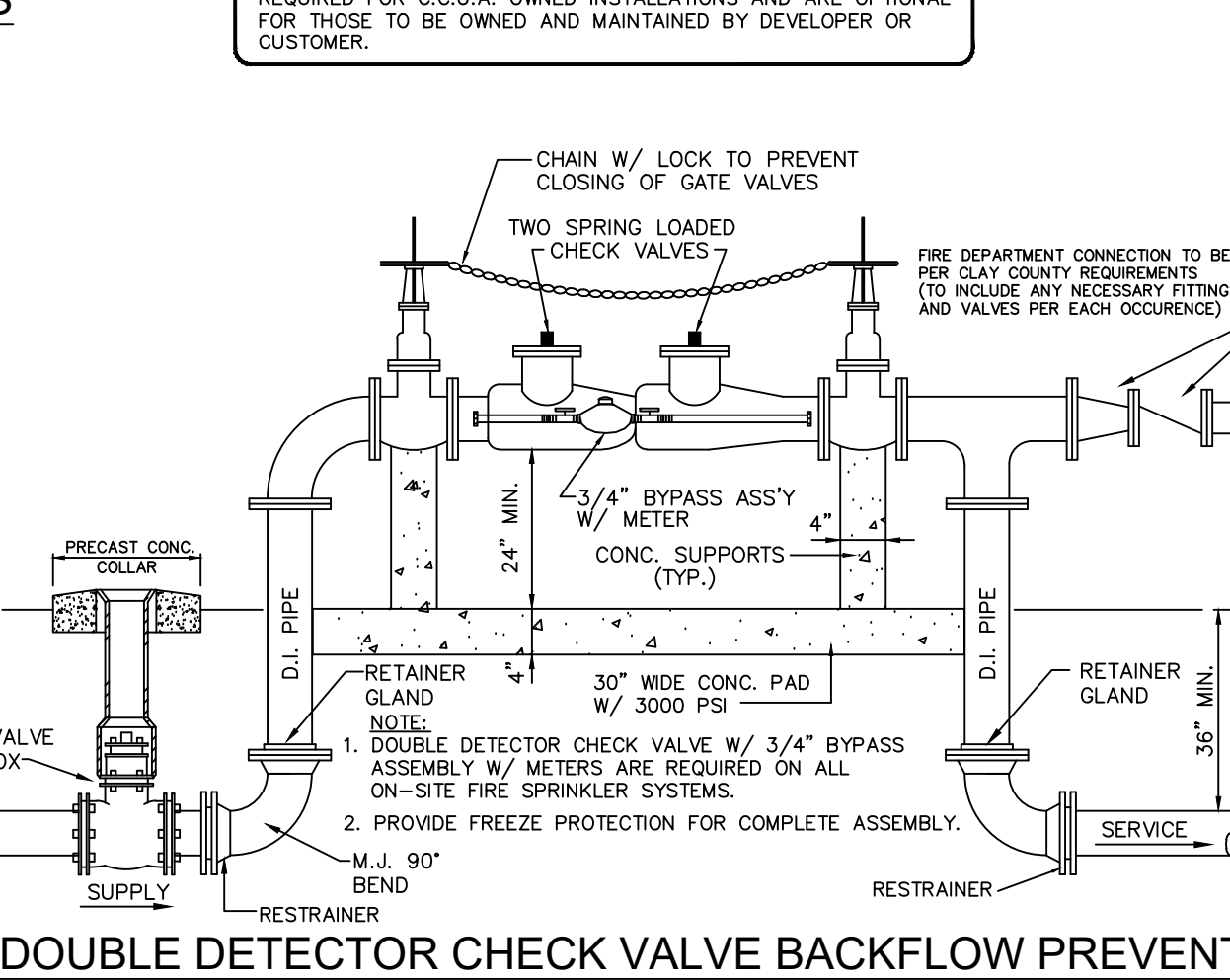
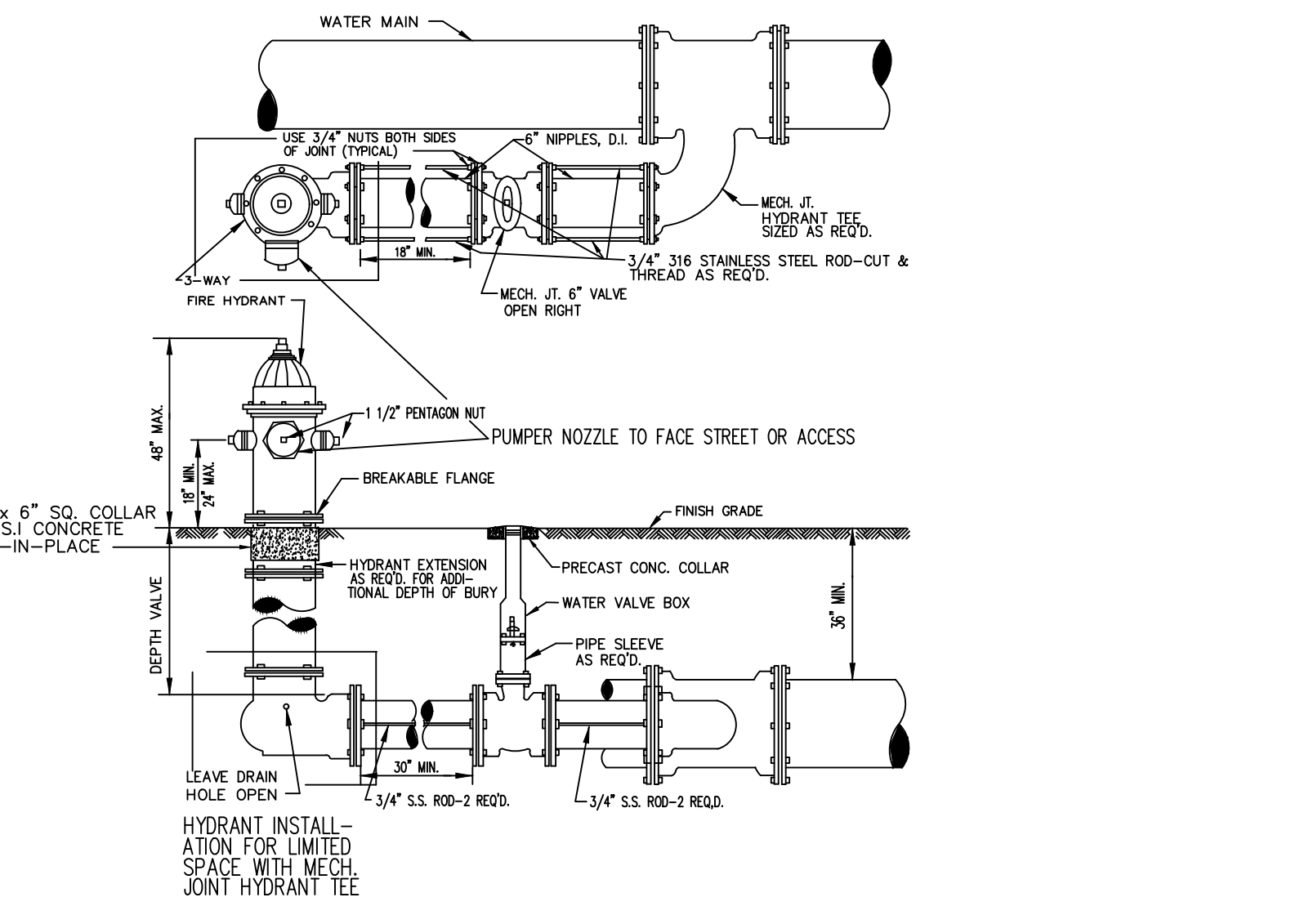
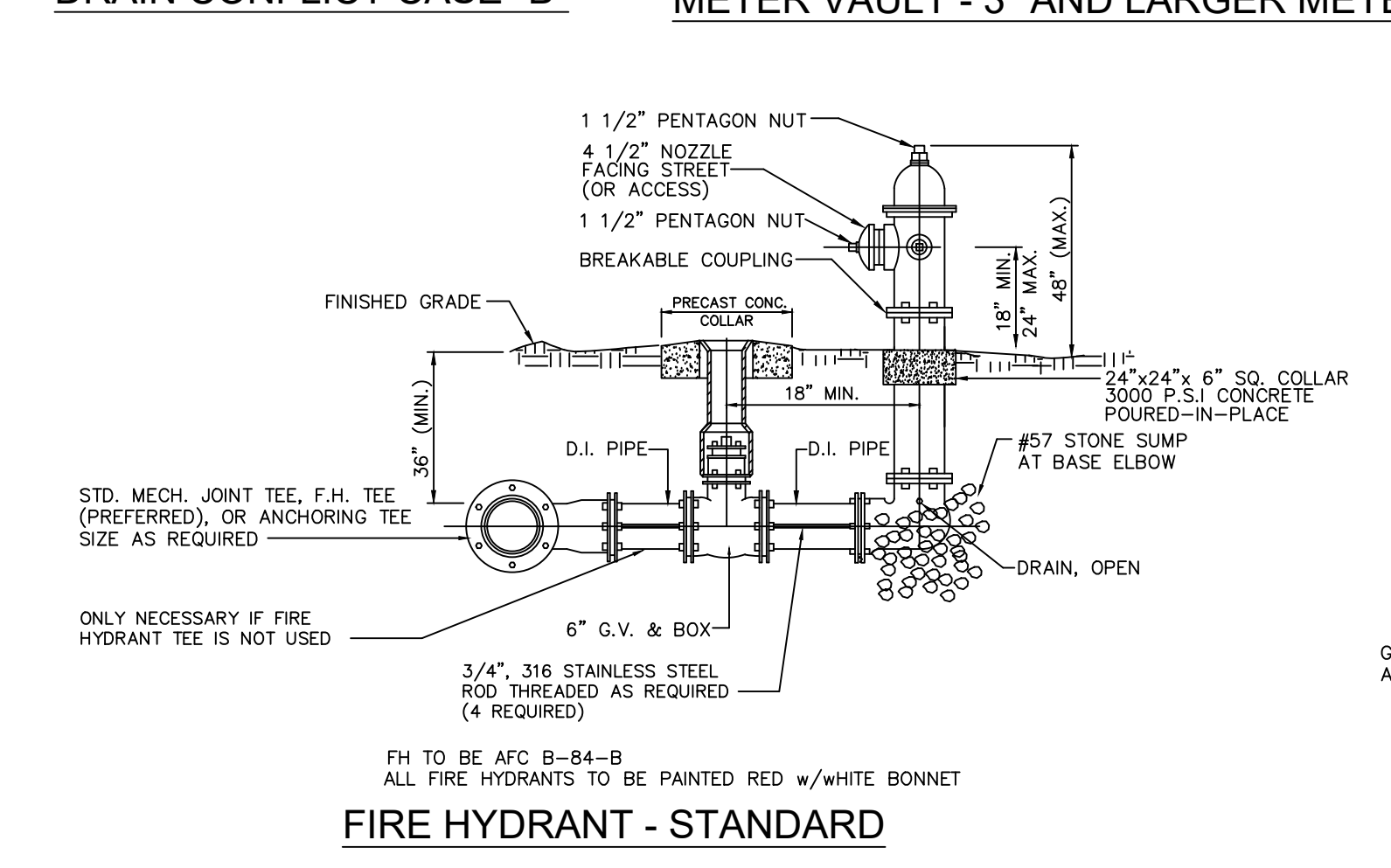
MINIMUM LENGTH TO BE RESTRAINED ON EACH SIDE OF FITTING (IN FEET)

NOMINAL PIPE SIZE (INCHES)	1 1/2" HORIZONTAL BEND	2 1/2" HORIZONTAL BEND	45° HORIZONTAL BEND	90° HORIZONTAL BEND	HORIZONTAL TEES	BRANCHES	UNION	FLANGE	45° VERTICAL OFFSET (UPPER LEG)	45° VERTICAL OFFSET (LOWER LEG)	45° VERTICAL OFFSET (UPPER LEG)	45° VERTICAL OFFSET (LOWER LEG)	REDUCER TO ONE SIZE SMALLER	REDUCER TO LARGER SIZE SIZE	
4	2	4	7	18	20	- RUN	1	- BRANCH	55	23	7	4	11	2	28
6	2	5	10	25	20	- RUN	1	- BRANCH	72	30	7	5	14	3	29
8	3	6	13	32	20	- RUN	1	- BRANCH	86	36	7	6	17	3	29
10	4	8	16	38	20	- RUN	1	- BRANCH	102	42	7	8	20	4	30
12	4	9	19	43	20	- RUN	1	- BRANCH	116	48	7	9	23	4	30
14	5	10	21	51	20	- RUN	10	- BRANCH	131	54	10	26	26	5	30
16	6	11	23	57	20	- RUN	26	- BRANCH	145	60	11	29	29	5	29
18	6	12	26	62	20	- RUN	41	- BRANCH	158	66	12	36	36	5	29
20	7	13	28	68	20	- RUN	55	- BRANCH	171	72	11	37	37	5	29
24	8	16	32	78	20	- RUN	77	- BRANCH	185	77	11	37	37	5	29
30	9	18	38	92	20	- RUN	77	- BRANCH	225	92	17	44	44	7	27
36	10	21	44	105	20	- RUN	115	- BRANCH	256	106	20	51	51	10	27

NOTES:  
 1. TABLE ASSUMPTIONS: PVC PIPE, SAFETY FACTOR = 1.5, S.O.L. = 0M OR 5M, 3 FT. BURY DEPTH TO TOP OF PIPE, TRENCH TYPE 'A' BRANCH ON TEE IS ONE SIZE SMALLER THAN RUN OF TEE SIZE AND 20 FEET OF PIPE IS INSTALLED PAST THE TEE ON THE RUN SIDE (SMALLER BRANCH SIZES MUST BE CALCULATED BY THE ENGINEER). VERTICAL OFFSETS ARE 3 FEET DEEP ON TOP AND 8 FEET DEEP ON BOTTOM. REDUCERS ARE CALCULATED FOR ONE SIZE REDUCTION. OTHER CONDITIONS WILL REQUIRE ADDITIONAL CALCULATIONS.  
 2. ALL FITTINGS MUST BE RESTRAINED. ONE OF THE FOLLOWING METHODS MAY BE USED:  
 A. MECHANICAL RESTRAINTS AT FITTING AND AT ADJACENT JOINTS TO A LENGTH AS SPECIFIED ON CHART.  
 B. THE RIGIDITY OF FITTING AND JOINTS TO A LENGTH AS SPECIFIED ON CHART.  
 3. APPROVED RESTRAINTS: UNIFLANGE SERIES 1300 & 1350 OR APPROVED EQUAL.  
 4. VALVES SHALL BE RESTRAINED THE SAME DISTANCE AS HORIZONTAL FLOWS.

**RESTRAINED JOINT SCHEDULE**

NOTES:  
 1. RETAINER GLANDS OVER CARRIER PIPE SHALL BE SNUG TO PIPE.  
 2. THREADED ROD TO TIE RETAINER GLAND OR RESTRAINER TO CASING THRU EYE BOLT.  
 3. EYE BOLTS TO BE WELDED TO SIDE OF THE STEEL CASING BY BORING CONTRACTOR.  
 4. NUMBER OF RODS PER CASING:  
 8" CASING - 2 RODS  
 10" & 12" CASING - 4 RODS  
 16" CASING - 6 RODS  
 18" TO 24" CASING - 8 RODS

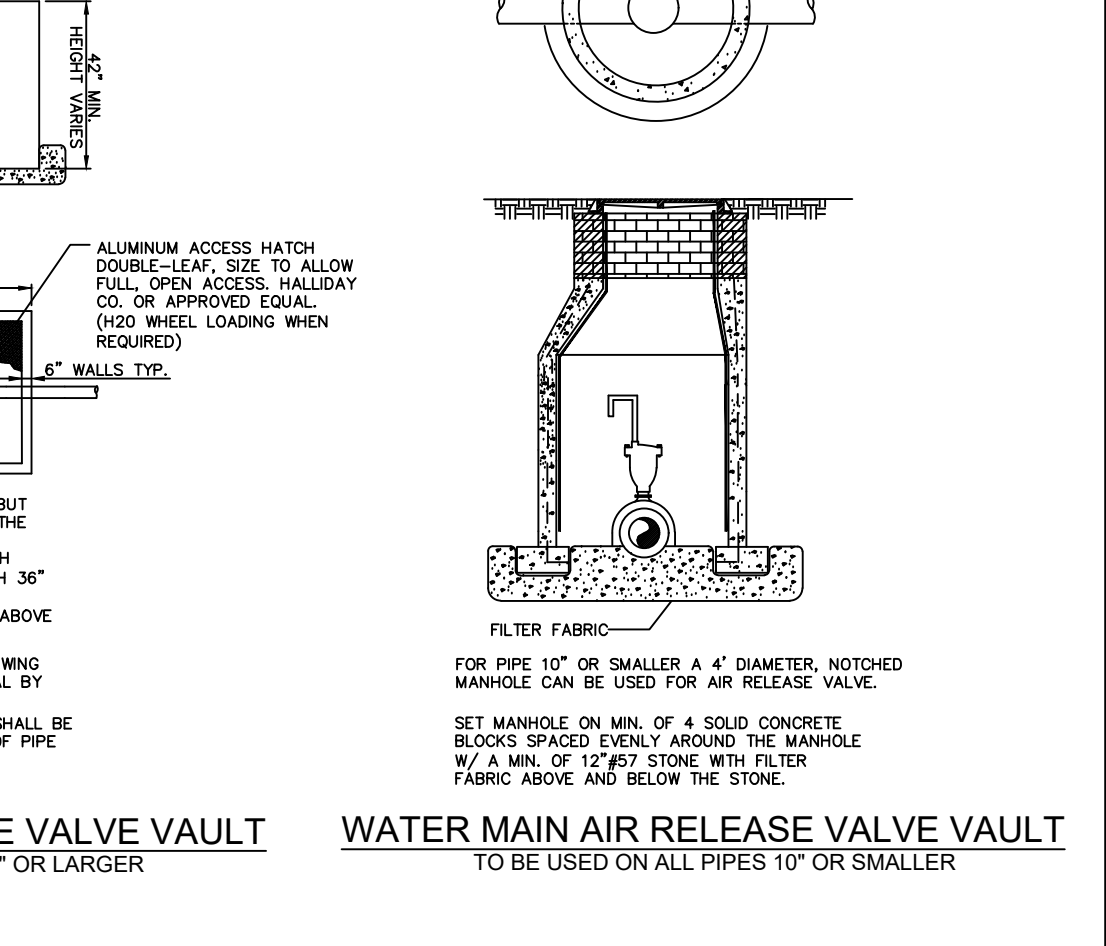


**CASING SIZE SCHEDULE**

NTS

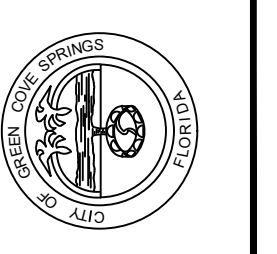
O.D. OF CARRIER PIPE SIZE (DR-18)	OUTSIDE DIAMETER OF STEEL CASING PIPE													
	10"	12"	16"	18"	20"	24"	30"	36"	42"	48"	54"	60"	66"	
6.5"	4"	NR												
9.0"	6"	NR												
11.6"	8"		NR											
14.1"	10"			NR										
16.7"	12"				NR									
21.23"	16"					NR								
23.74"	18"						NR							
26.18"	20"							NR						
31.22"	24"								NR					

NR = CENTERED, NON-RESTRAINED



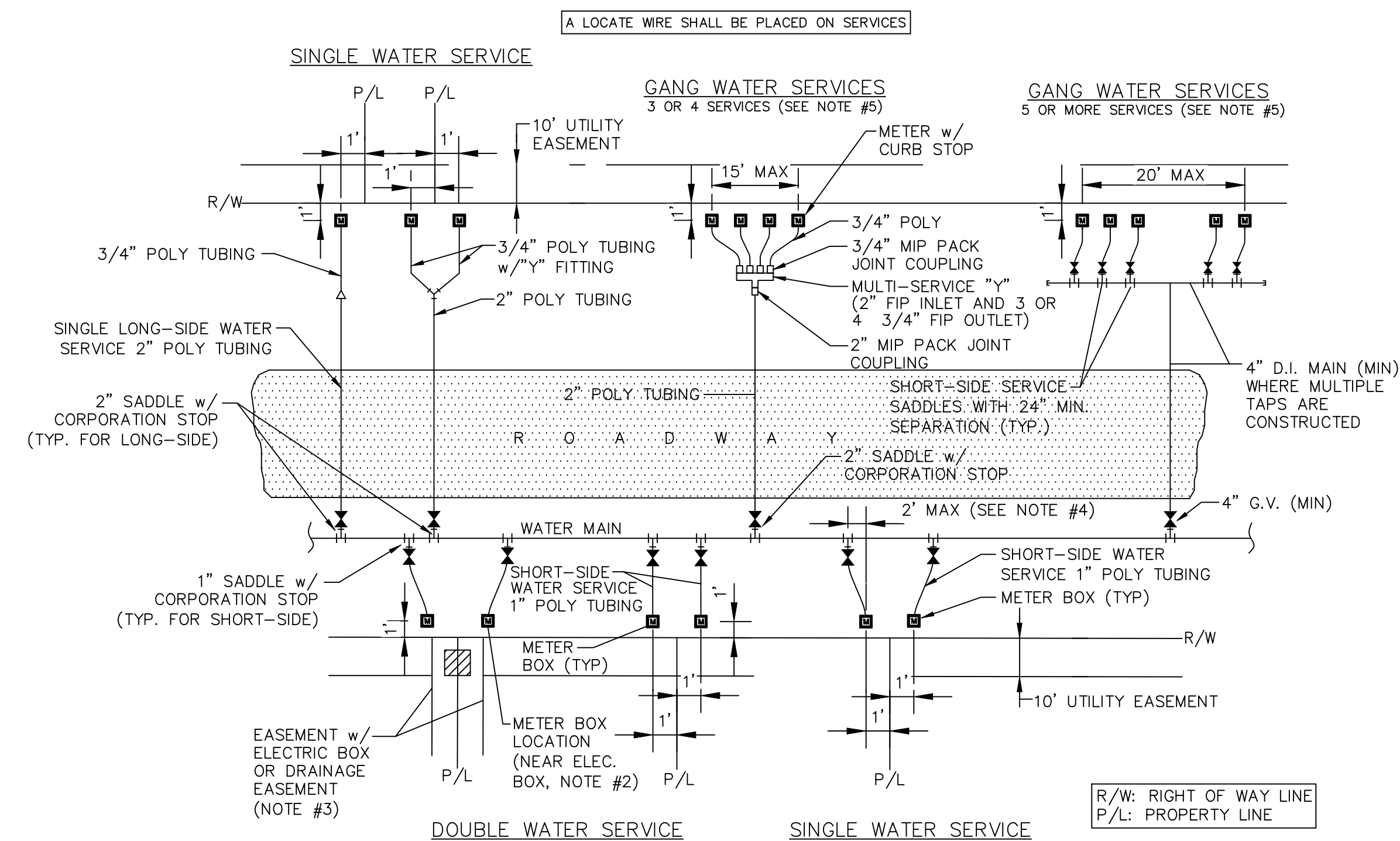
PROJECT: STANDARD WATER SYSTEM DETAILS

CITY OF GREEN COVE SPRINGS  
 321 WALNUT STREET  
 GREEN COVE SPRINGS, FLORIDA 32043



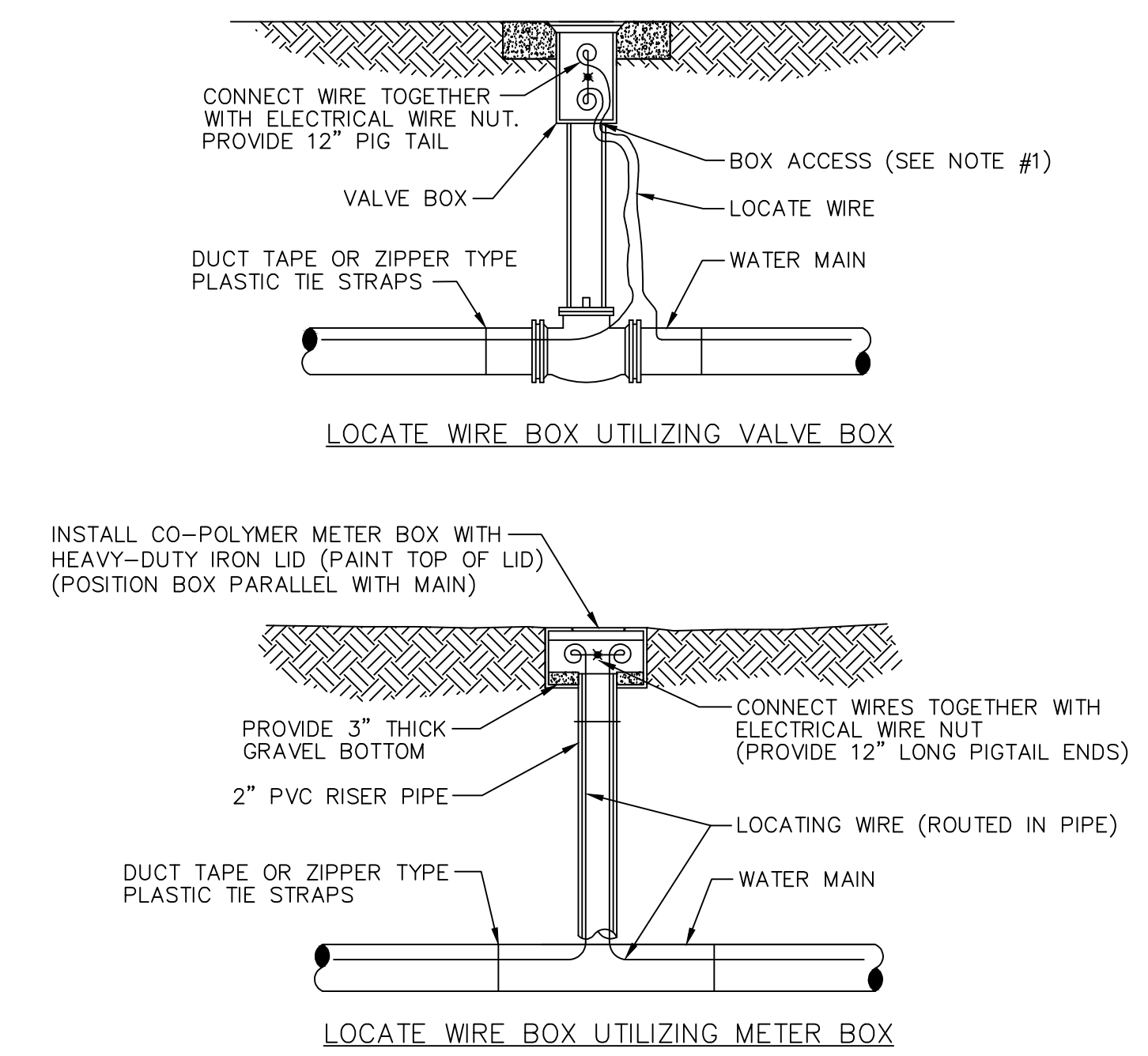
WATSTAND.DWG





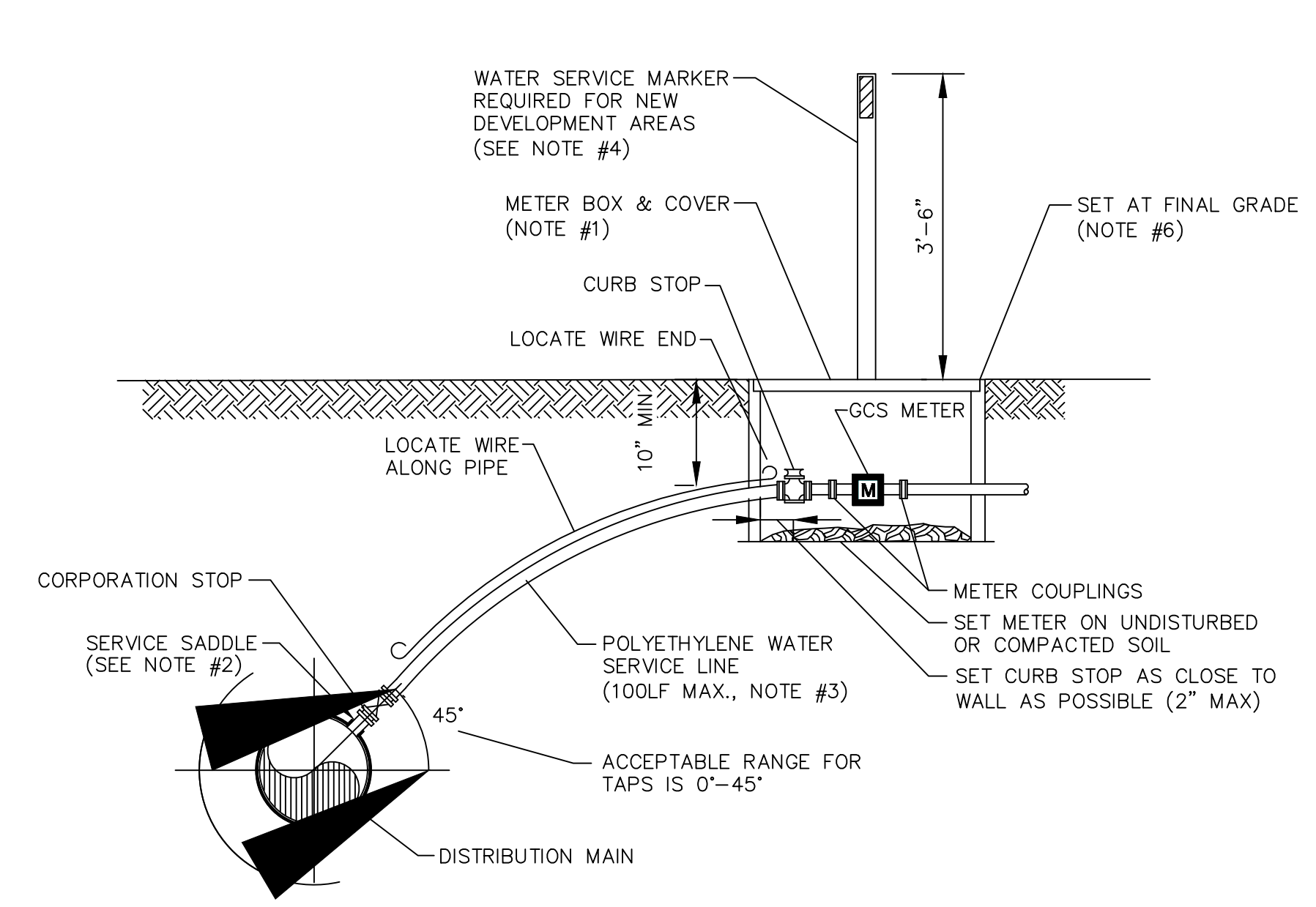
- NOTES**
- THE SKETCHES ABOVE INDICATE TYPICAL WATER SERVICE AND METER BOX LOCATIONS. ACTUAL LOCATIONS OF BOXES MAY VARY SLIGHTLY ACCORDING TO FIELD CONDITIONS ENCOUNTERED. TYPICALLY, THE METER BOX SHALL BE LOCATED 1.0' OFF OF THE R/W LINE.
  - UNLESS SPECIFIED OTHERWISE BY THE CITY OF GREEN COVE SPRINGS, THE METER BOX SHALL BE LOCATED 1.0' OFF OF THE R/W LINE, AND 1.0' FOOT INSIDE OF THE PROLONGATION OF ONE OF THE SIDE PROPERTY LINES. IF A CONFLICT EXISTS WITH OTHER UTILITIES, THE METER BOX MAY BE ADJUSTED TO FOUR FEET (MAX.) INSIDE PROPERTY LINES (IN LIEU OF 1.0' FEET). UNLESS APPROVED OTHERWISE BY THE CITY, THE WATER METER BOX SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN SIDEWALKS OR DRIVEWAYS). IF AN UNAPPROVED METER BOX IS IDENTIFIED BY THE CITY, THEN THE CONTRACTOR OR CUSTOMER SHALL BE RESPONSIBLE FOR THE COST OF RELOCATING ANY METER BOX WHICH IS LOCATED IN THE SIDEWALK OR DRIVEWAY OR THE COST TO PROVIDE THE CORRECT METER BOX. THE CITY SHALL APPROVE ALL DEVIATIONS TO THE ABOVE PRIOR TO CONSTRUCTION.
  - IF DRAINAGE OR OTHER EASEMENT IS LOCATED BETWEEN LOTS, METER BOXES SHALL BE LOCATED AT THE EASEMENT LINE BUT OUTSIDE THE EASEMENT AREA.
  - FOR SINGLE SERVICES, THE HORIZONTAL DISTANCE (PERPENDICULAR TO THE MAIN) BETWEEN THE SERVICE'S SADDLE AND THE METER BOX SHALL BE 2 FEET MAXIMUM. FOR DOUBLE 3/4" SERVICES, THE 2" POLY MAIN SHALL BE LOCATED CENTERED BETWEEN THE TWO METER BOXES. LOCATE WIRE IS REQUIRED ON ALL SERVICES. THE WIRE SHALL RUN FROM THE METER BOX TO THE MAIN (WITH NO CONNECTION TO MAIN WIRE WITH THE LAST 24 INCHES STRIPPED OF INSULATION/BARE WIRE AS GROUND). ALL EXCEPTIONS TO THIS REQUIREMENT MUST BE APPROVED BY THE CITY OF GREEN COVE SPRINGS. THIS WILL ASSIST IN LOCATING EXISTING SERVICE LINES IN THE FUTURE.
  - GANG WATER SERVICES: FOR 3 OR 4 SERVICES IN ONE AREA, A DUCTILE IRON PIPE (D.I.P.) WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG-SIDE SERVICES WHERE SHOWN ON THE DRAWINGS. LOCATE WIRE SHALL EXTEND FROM ONE METER BOX TO CURB STOP AT WATER MAIN. FOR 5 OR MORE SERVICES IN ONE AREA, A WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG-SIDE SERVICES WHERE SHOWN ON THE DRAWINGS (TAPS STAGGERED AND AT 2 FEET ON CENTER (MIN). FOR WATER SUPPLY HEADERS WHERE 5 OR MORE TAPS ARE CONSTRUCTED, THE HEADER PIPE SHALL BE 4" AT A MINIMUM. EXAMPLE: CONSTRUCT A 4" MAIN D.I. CROSSING THE STREET FOR 5 RESIDENTIAL CUSTOMERS, UTILIZING 4" G.V., 4" PIPE, 4"x1" SADDLES AND 1" CURB STOPS (NO GLUED TEE FITTINGS). THE 4" OR LARGER D.I.P. WATER MAIN MUST BE SIZED AND DESIGNED BY THE ENGINEER.
  - ALL COMMERCIAL WATER SERVICES SHALL BE 2" POLYETHYLENE PIPING CONNECTED TO 2" CURB STOP IN METER BOX, UNLESS OTHERWISE APPROVED BY THE CITY.

**WATER SERVICE INSTALLATIONS 2" AND SMALLER METER**



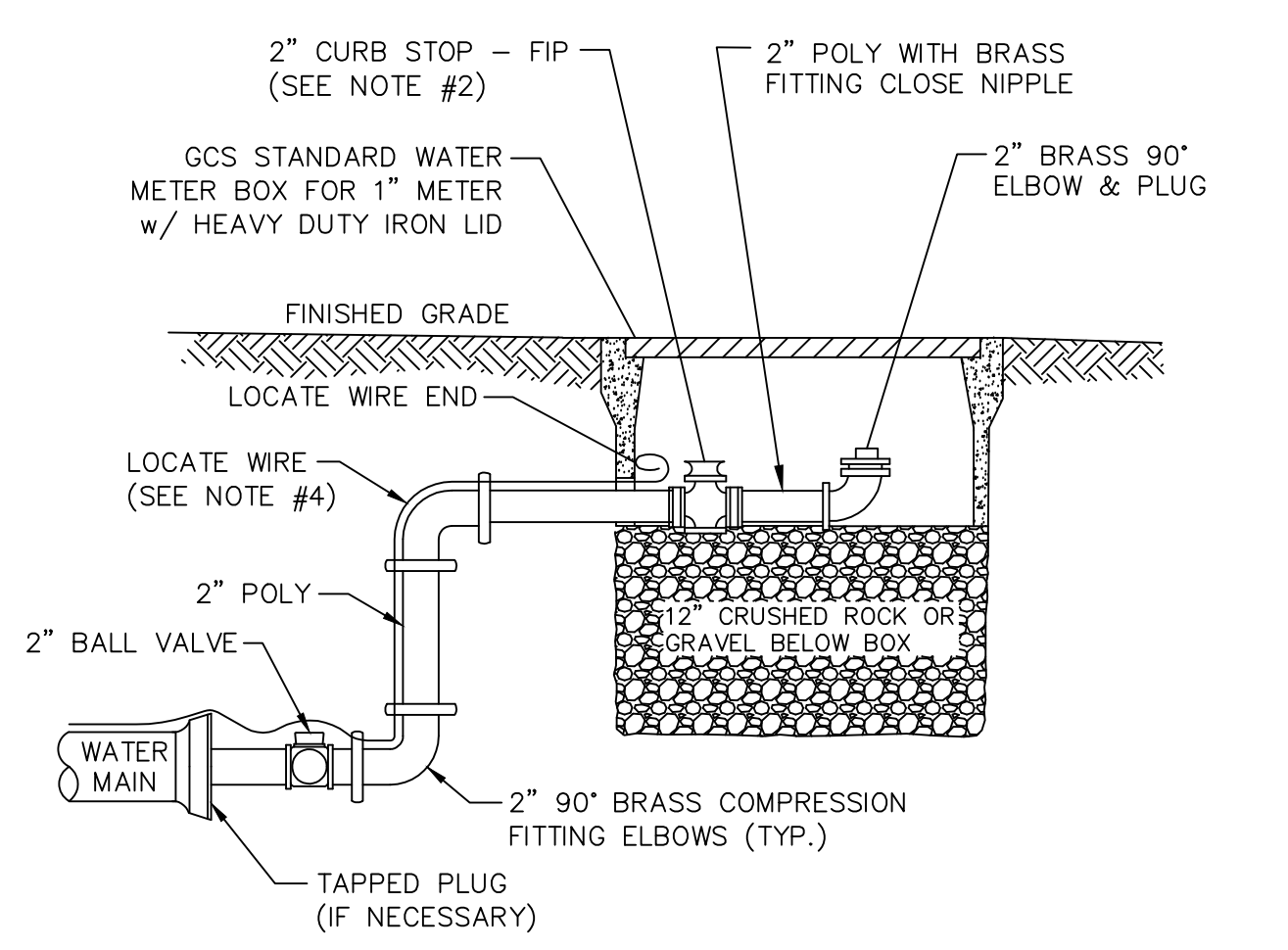
- NOTES**
- LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE.

**LOCATE WIRE BOX**



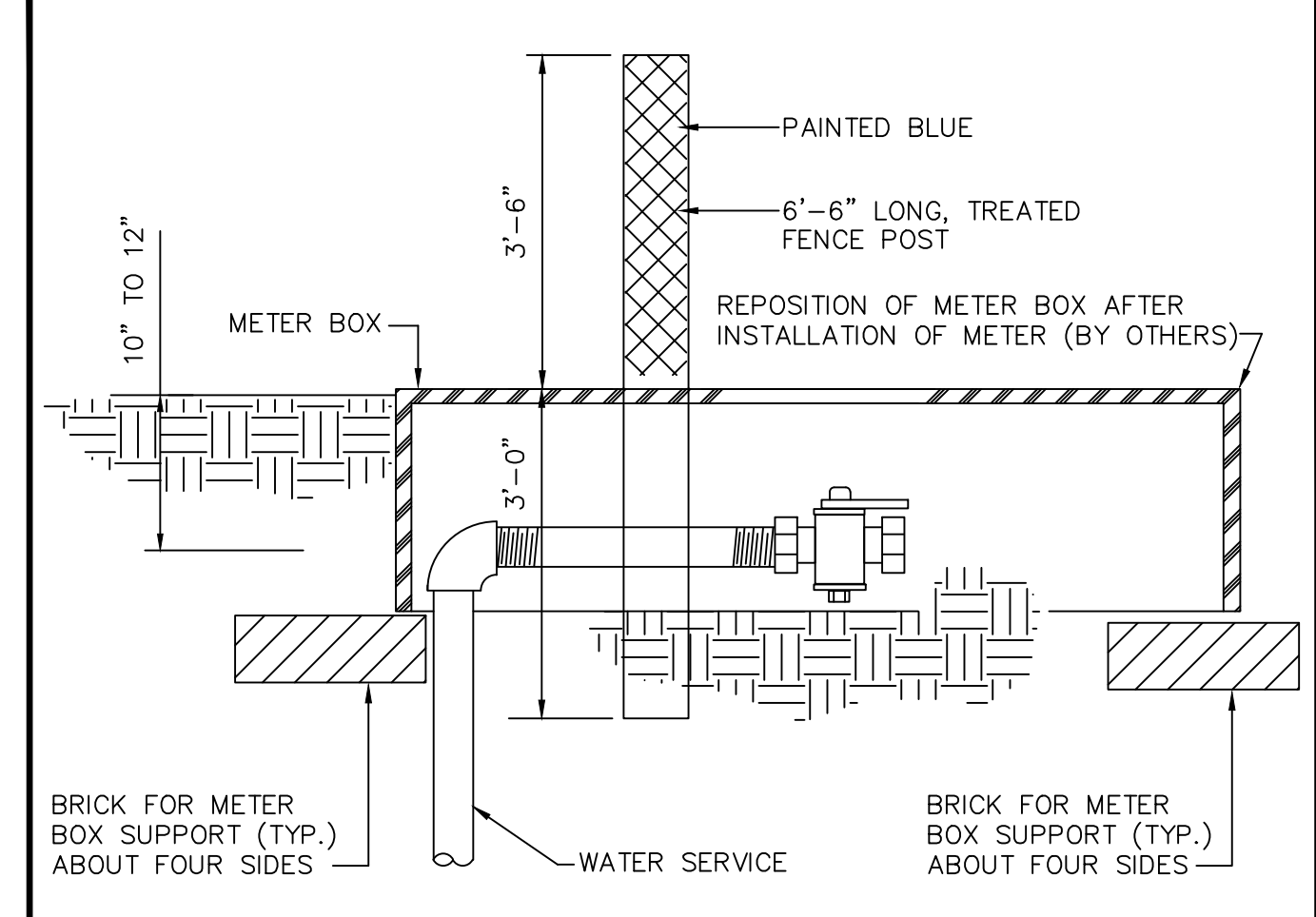
- NOTES**
- SEE CITY OF GREEN COVE SPRINGS APPROVED MATERIALS MANUAL AND SYSTEM DETAILS FOR REQUIREMENTS.
  - SINGLE BAND SADDLES MAYBE UTILIZED ON NEW 1" WATER SERVICES WHICH ARE INSTALLED ON A DRY 10" SIZE OR SMALLER WATER MAIN (NEW WATER MAIN CONSTRUCTION). FOR WET TAPS OR WATER MAINS 12" SIZE AND LARGER, A DOUBLE BAND SADDLE IS REQUIRED.
  - NO OPEN CUT UNDER ROADWAY PAVING ALLOWED UNLESS THE ROADWAY IS BEING RECONSTRUCTED OR IF DIRECTED OTHERWISE BY CITY OF GREEN COVE SPRINGS. CONSTRUCT POLY LINE WITH 3/8" (MIN.) COVER UNDER ROADWAYS. THE POLY WATER SERVICE LINE SHALL BE SAME SIZE AS THE METER (3/4" MINIMUM) AND BE INSTALLED PERPENDICULAR TO THE MAIN AND NOT EXCEED 100LF UNLESS OTHERWISE APPROVED BY CITY OF GREEN COVE SPRINGS.
  - INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (I.E.: IF NO METER IS INSTALLED). IN ADDITION, INSTALL A 6", 6" P.T. FENCE POST (TOP PAINTED BLUE) 12" OFF SIDE OF METER BOX. THE REMOVAL OR TRANSFER OF A WATER SERVICE SHALL INCLUDE BRASS METER COUPLINGS (HEX ON BARREL TYPE).
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE BOXES, METERS OR ELECTRONIC DEVICES IF DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD.
  - METER BOX AND TOP SHALL BE CLEAR OF ALL DEBRIS TO ALLOW FULL ACCESS TO BOX (I.E., NO DIRT, TRASH OR OTHER DEBRIS PLACED ON TOP OF BOX).
  - LOCATE WIRING REQUIRED ON ALL LONG AND SHORT SERVICES.

**WATER SERVICE DETAIL- 2" AND SMALLER METER**



- NOTES**
- PIPE SHALL BE POLYETHYLENE. FITTINGS SHALL BE BRASS.
  - THE 2" CURB STOP SHALL BE ALL BRONZE. FITTINGS SHALL BE BRASS.
  - CANNOT BE PLACED UNDER CONCRETE OR PAVEMENT.
  - PLACE 2 FEET PAST LAST WATER MAIN SERVICE CONNECTION.

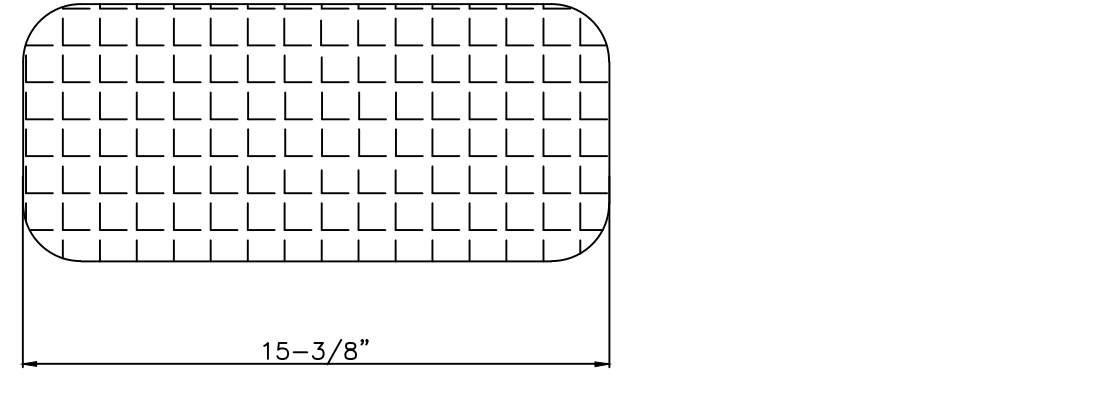
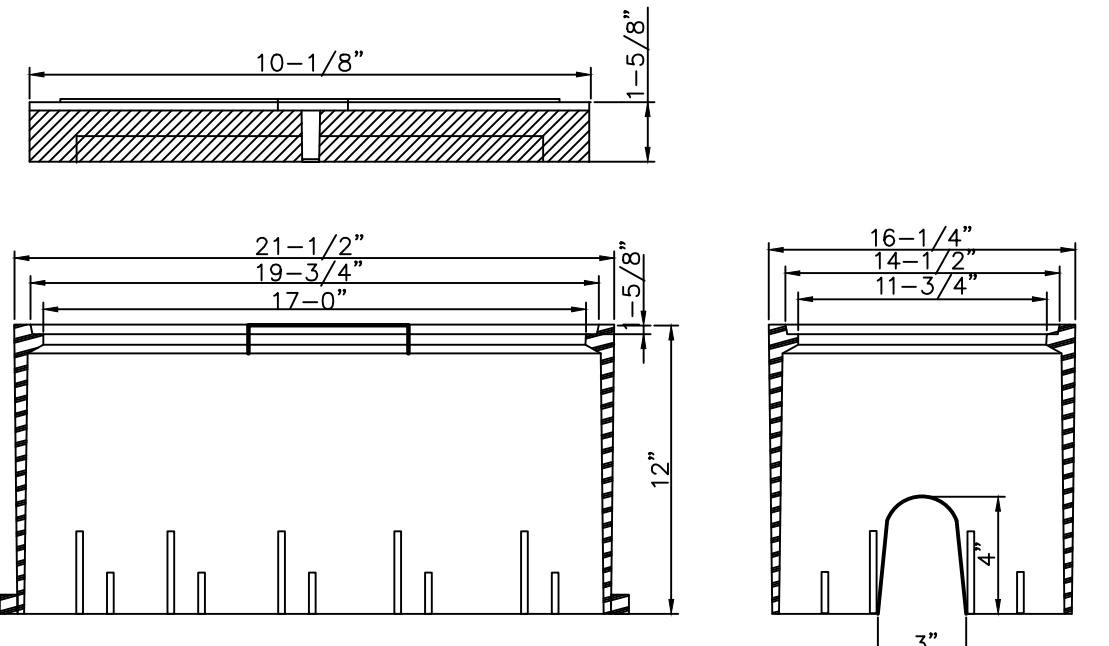
**FLUSHING VALVE BELOW GRADE**



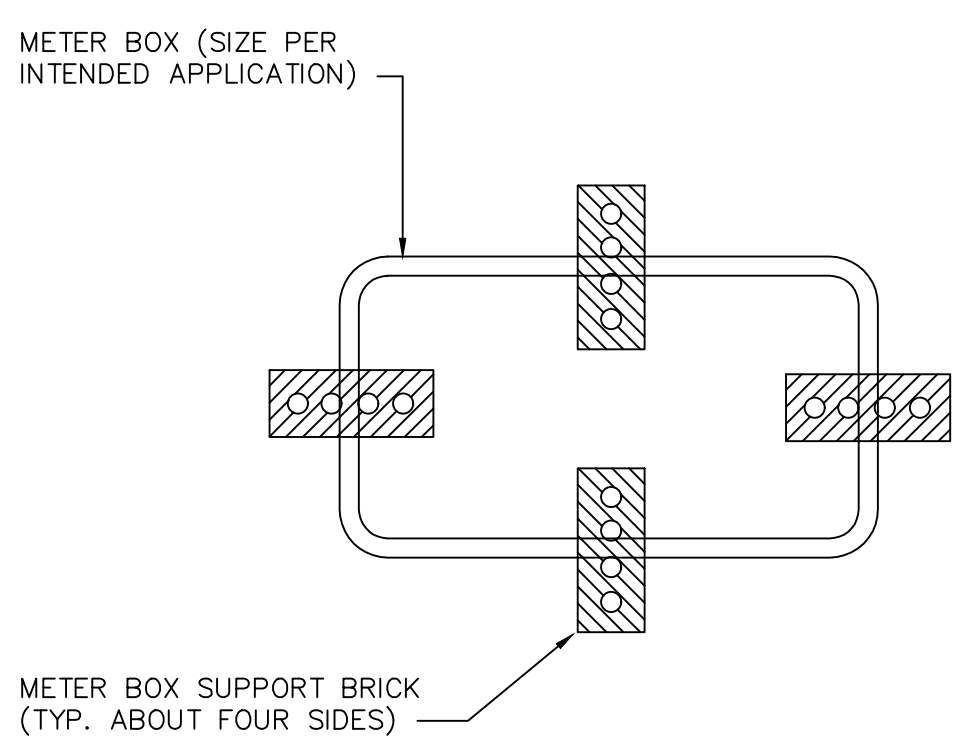
**WATER SERVICE MARKER POST**

- NOTE:**
- ALL SERVICES ARE TO BE CLEARLY MARKED BY A TREATED 6"-6" LONG MARKER POST PAINTED BLUE. ALL SERVICES ARE TO BE EXTENDED ABOVE GRADE UNTIL COMPLETION OF ALL GRADING ACTIVITIES. ONCE FINAL ROAD GRADING IS COMPLETE, LOWER SERVICES BY CUTTING OFF RISER 10" TO 12" BELOW FINAL GRADE AND INSTALL 90° BEND, NIPPLE AND LW BALL VALVE AT THAT ELEVATION. SET METER BOX OVER ENTIRE HORIZONTAL SECTION OF SERVICE LINE FROM LAST 90° BEND TO THE END OF THE CURB STOP. BOX TO BE REPOSITIONED WHEN THE METER IS INSTALLED. MARKER POST TO BE INSTALLED ADJACENT TO AND LOCATED AT THE MID SECTION OF THE METER BOX.

- NOTE:**
- MIN. WALL THICKNESS: .25"  
DOUBLE WALL BODY W/STRUCTURAL SUPPORT RIBS  
W/MIN. THICKNESS: 3/8"  
1" BOTTOM FLANGE  
BOX IS INJECTED MOLDED STRUCTURAL FOAM RECYCLED POLYPROPYLENE MATERIAL



**METER BOX & SOLID BLUE LID**



**METER BOX SUPPORT DETAIL**

REVISION DESCRIPTION

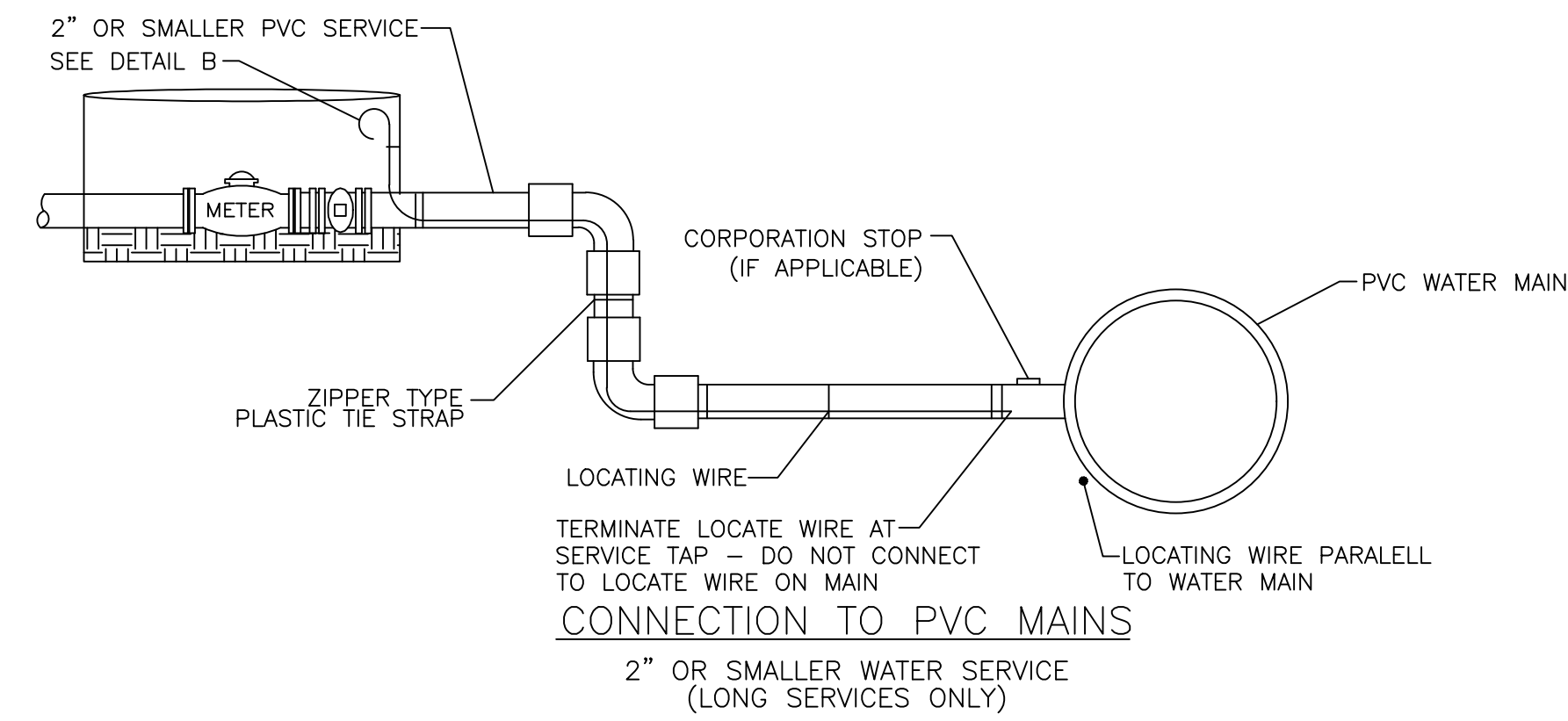
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APPR: \_\_\_\_\_  
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PROJECT: **STANDARD WATER SERVICE DETAILS**

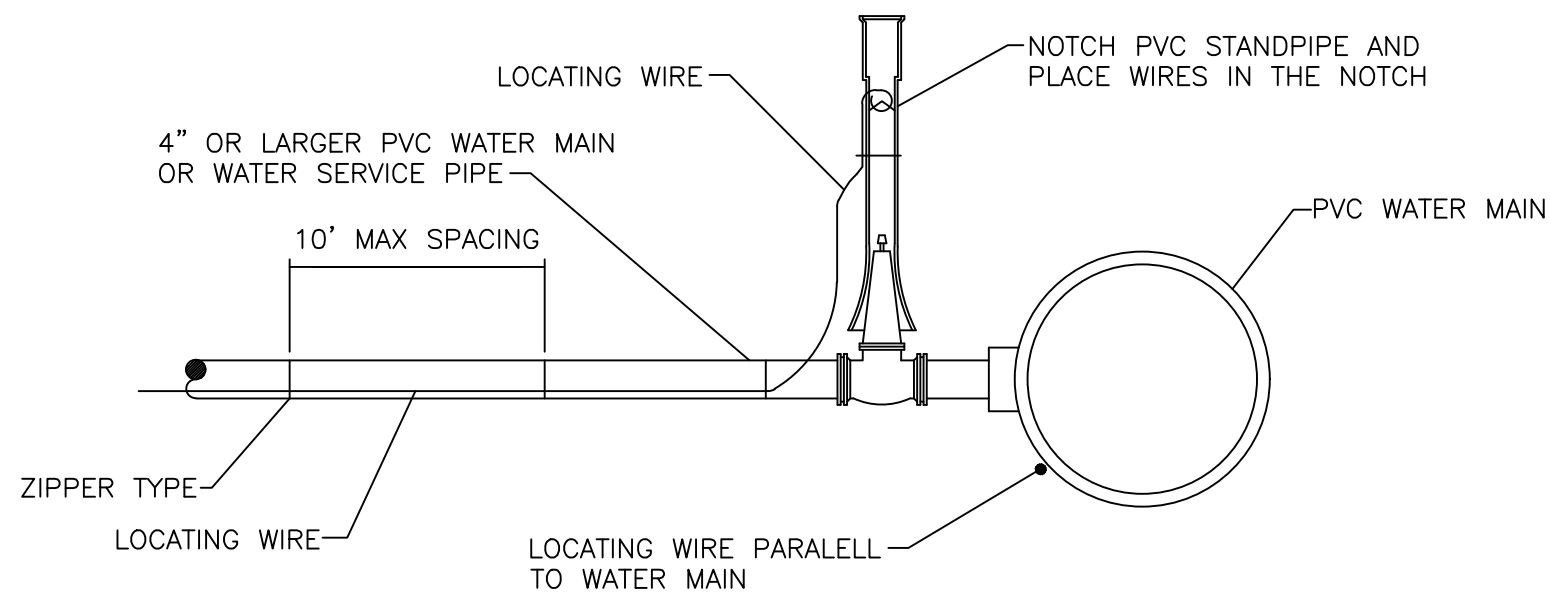
**CITY OF GREEN COVE SPRINGS**  
321 WALNUT STREET  
GREEN COVE SPRINGS, FLORIDA 32043

ACAD FILE NAME: SERVICES.DWG  
SHEET NO.: C17  
1 OF 1



CONNECTION TO PVC MAINS

2" OR SMALLER WATER SERVICE (LONG SERVICES ONLY)



CONNECTION TO PVC MAINS

4" OR LARGER PVC WATER MAIN OR WATER SERVICE PIPE

DETAIL - A

**LOCATE WIRE TESTING REQUIREMENTS**  
 Installed locate wiring shall be tested by the contractor as part of the final inspection procedure, using a certified tester and approved testing equipment. The contractor shall request and obtain approval from the GCS field representative (inspector), of the locate wire field testing schedule. The GCS field representative may elect to be present during the testing period, and have the authority to request tester to retest sections if inspector suspects any problems within that section. The contractor shall provide the Certified Tester a copy of the project site drawings (as-builts preferred). A note shall be put on the locate wire. The technician shall trace the entire length of the installed wire and spot paint the location at least at 100-foot intervals along the route. The depth shall be tested at 100-foot intervals and tester shall record the depth of pipe/wire on the report at each 100' interval. The certified tester shall report (show on drawings), where the pipe/wire has less than the allowable minimum cover (36 inches) or more than the maximum allowable cover (60 inches) unless called for on the plans or requested and approved by GCS during the installation of said piping. All lateral stub-outs shall be marked with paint and the depth recorded. A final Locate Wire Report (statement by the certified tester), shall be submitted to GCS for review and approval. The report shall include a signed statement from the certified tester which certifies that all installed wire (where shown on the drawing), was successfully (sounded), traced with no open breaks. The report shall also include a copy of the project site drawings which indicate all field notes, breaks found/repared, depths (if installed outside the acceptable cover limits), and other applicable field remarks by the certified tester. A Certified copy of the report and marked-up drawings shall be furnished to GCS prior to final acceptance of the project or as approved otherwise by GCS.

**Definitions:** Approved Testing Equipment shall include variable frequency controls, digital depth read-out and tone continuity. The following is a list of approved equipment - Dynatel (3M)-2273 Cable/Fault Locator, Metrotech 9800XT, Ditch Witch 950 R/T or GCS pre-approved equal.

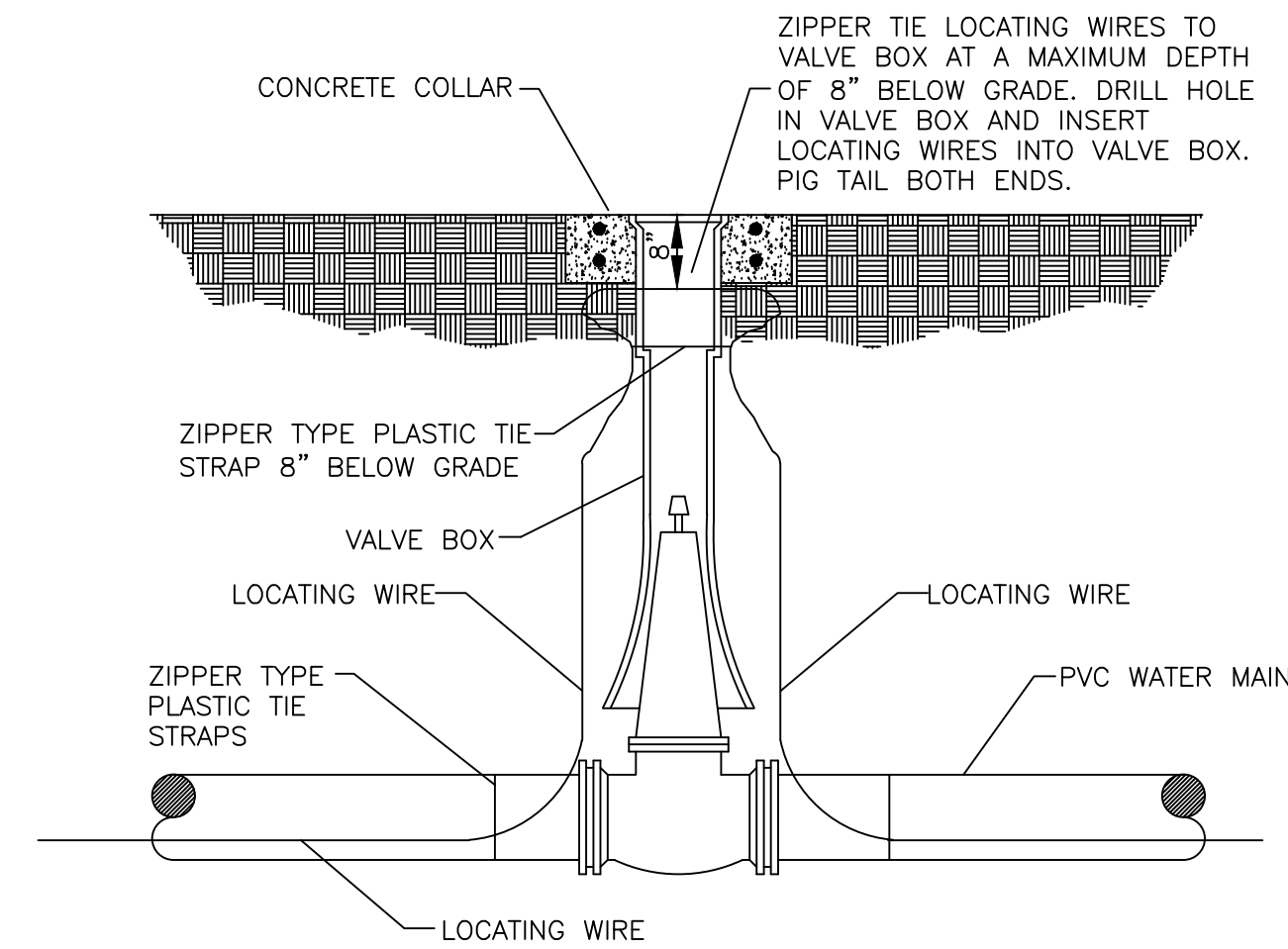
**Certified Tester -** A person or company that has been certified by the Manufacturer of the approved testing equipment as proficient in the use of the equipment has 8 months experience in the use of the equipment including documented proof of past performance.

**GCS Approval:** Green Cove Springs Public Works shall have the authority to approve Certified Tester, or deny the approval of Certified Tester to work on Utility's System. GCS shall have the authority to remove any previously Certified Tester from its approved list of Certified Testers as GCS deems necessary.

**LOCATE WIRE INSTALLATION**  
 Contractor shall furnish and install locate wiring on all water mains, sewer force mains, and reclaimed water mains (both PVC and ductile iron) and on all service mains, any size. Locate wire must be attached to mains and services with duct tape or approved plastic zipper ties, (pulled tight to keep wire from rotating out of location), at each side of bell joint or fitting and at 10 foot intervals along pipeline (at a minimum). Locate wire shall be brought to grade within a valve box or locating station box, as required, at 475 foot intervals (see note # 2 this page). Locate wire shall be installed in box and along pipeline as detailed in the GCS Standard Details. Locate wire shall be installed beneath the pipe line at the 5:00 to 7:00 o'clock position on the pipe. Connection or splices underground which are not inside a locate box (or valve box), shall be prohibited unless approved otherwise by GCS. The request to make an underground connection or wire splice shall be done in writing to GCS. The request shall contain the complete job name, name of street, station number as shown on plans and scaled as close as possible to the location of splice or connection, and the reason for request. GCS shall have at least 48 hrs. to respond verbally and 5 working days to respond in writing. If an underground connection is unavoidable and approved by GCS, then the wire shall be first tied in a knot (to minimize future separation), then the wire ends shall be connected utilizing an electric wire nut, then make the connection water tight by using either vinyl mastic tape (4" wide X 0.09" thick by 3M-Scotch 2210), or plastic enclosure (Snaploo Model LV 9500/951-4 large by TKH) or GCS approved equipment.

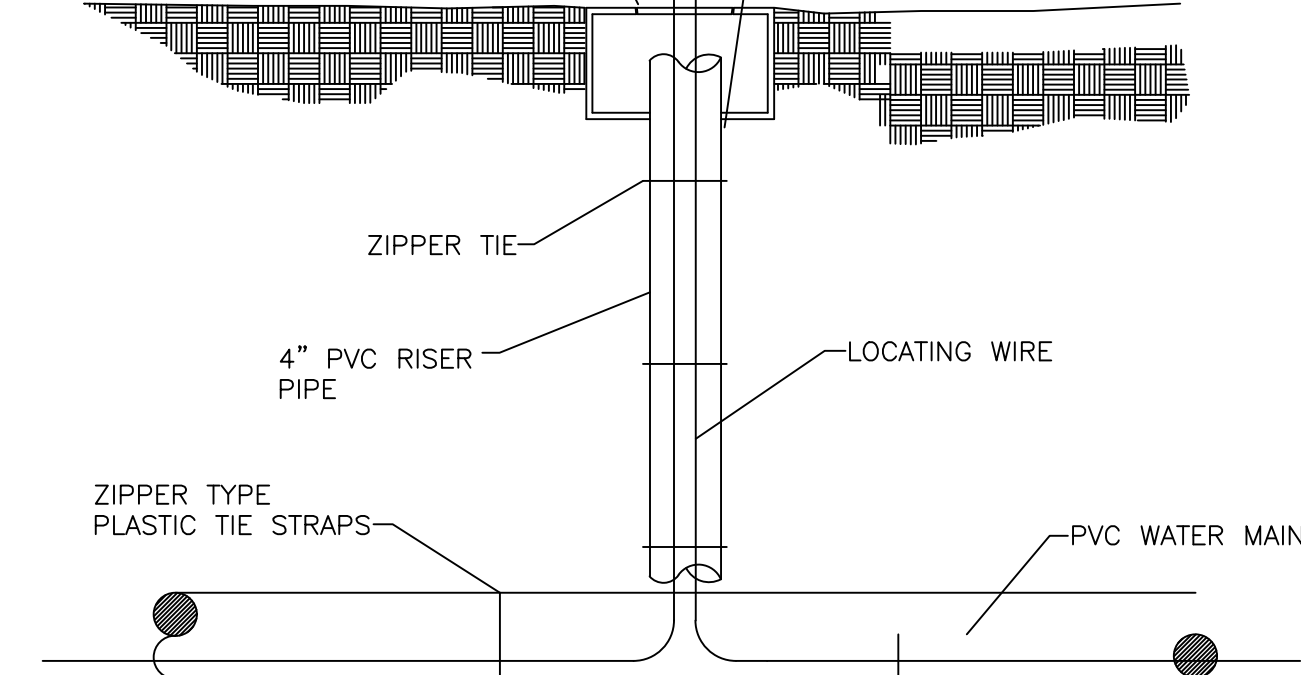
**LOCATE WIRE BOX INSTALLATION**  
 Where utility mains are to be installed beneath sidewalks, valve boxes shall be installed instead of locate wire boxes. The valve box lids shall indicate the type of line (i.e. water, sewer, or reclaimed water). The valve box shall be adjusted so the top of valve box is flush with the finished sidewalk grade. If for any reason a locate wire box must be offset from the C/L of pipeline, then the contractor shall have installed an adequate length of wire to avoid splices and the exact location of the locate box including the amount of the offset distance shall be recorded on the As-builts.

**AS-BUILT DRAWINGS**  
 See general note No. 1 of standard water and sewer system outline technical specifications for submitting as-builts on locate wire boxes.



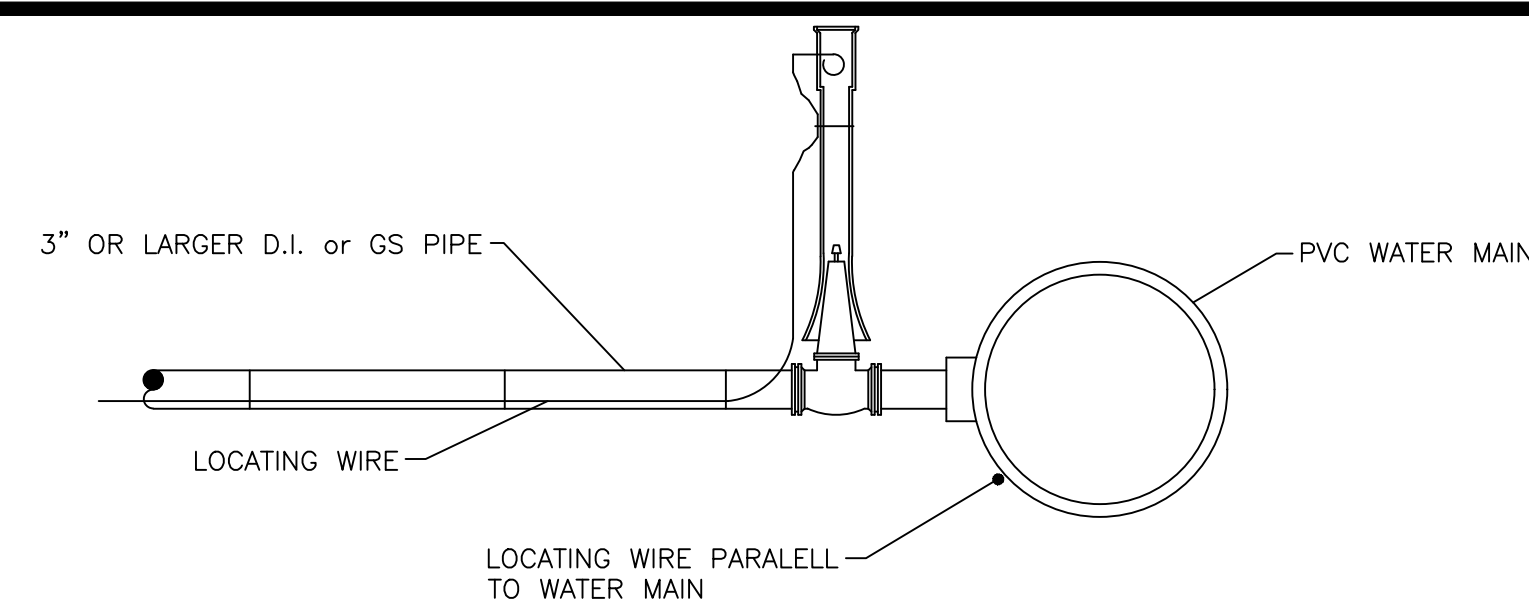
IN LINE LOCATING STATION- PVC PIPE

2' MIN. OF LOCATE WIRE SHALL BE COILED AND PLACED IN BOX  
 INSTALL WATER METER BOX WITH LID, PARALLEL TO RIGHT OF WAY



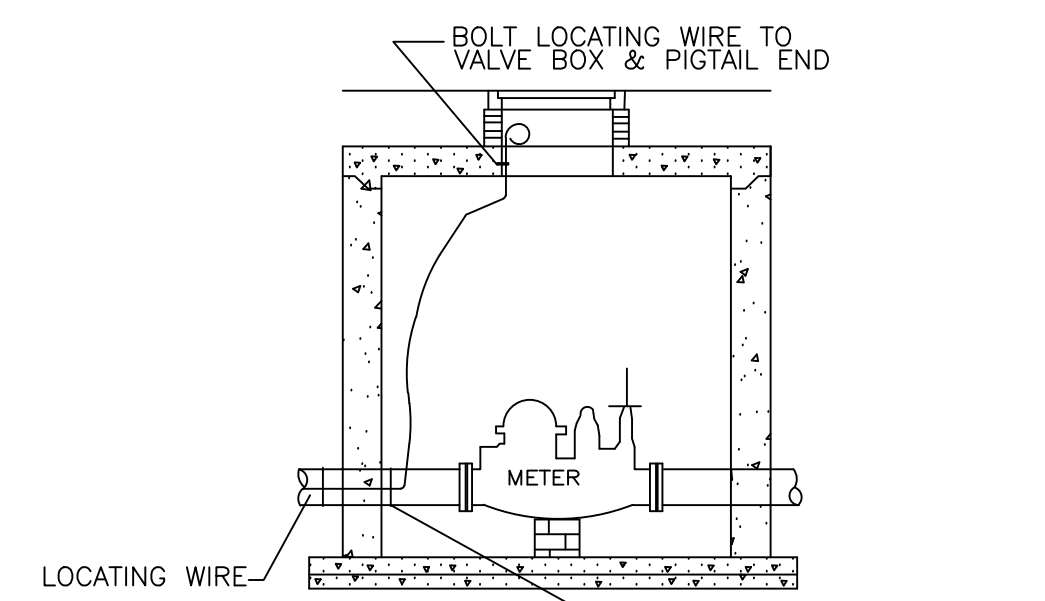
IN LINE LOCATING STATION - PVC PIPE

METER BOX  
 DETAIL - C



CONNECTION TO PVC MAINS

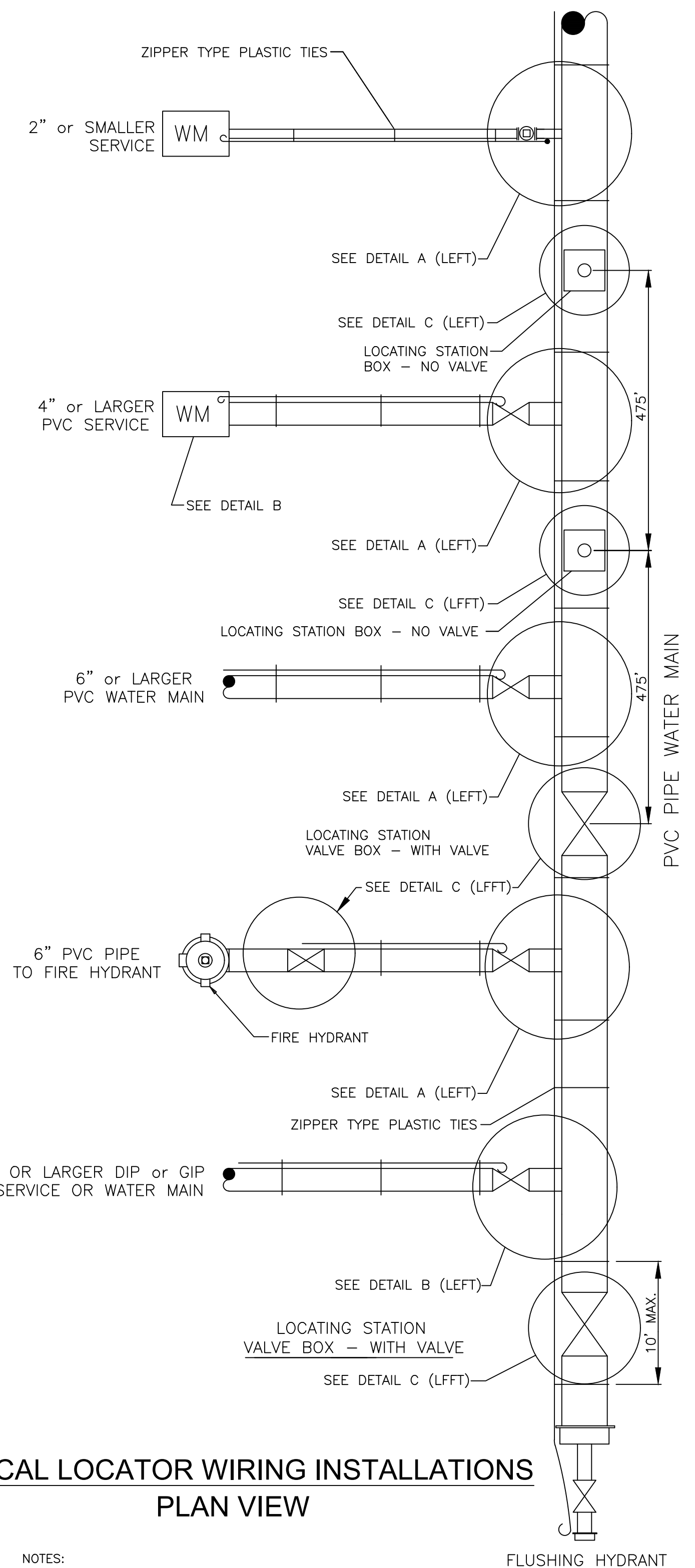
w/ 3" OR LARGER D.I. OR GS WATER SERVICE OR WATER MAIN



CONNECTION AT METERS BOXES

w/ PVC WATER SERVICE

DETAIL - B



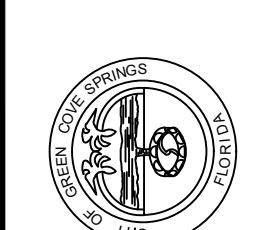
TYPICAL LOCATOR WIRING INSTALLATIONS  
 PLAN VIEW

- NOTES:**
1. LOCATING WIRE SHALL BE 10 GAUGE, SINGLE STRAND UF RATED (DIRECT BURIAL), COPPER WIRE.
  2. LOCATE BOXES SHALL BE INSTALLED AT THE LOT LINE IN RESIDENTIAL SUBDIVISIONS, OR COMMERCIAL PROPERTIES. BOXES SHALL NOT BE LOCATED IN SIDEWALKS OR DRIVEWAYS. LOCATE BOXES SPACING SHALL NOT EXCEED 500 FEET.
  3. WHERE IT IS NOT POSSIBLE TO LOCATE THE BOX OUTSIDE OF A PAVED STREET OR PARKING LOT THE LOCATE WIRE SHALL BE PLACED IN A VALVE BOX INSTEAD OF A ROME BOX. VALVE BOX LID SHALL BE MARKED ACCORDING TO THE TYPE OF PIPE SERVED.

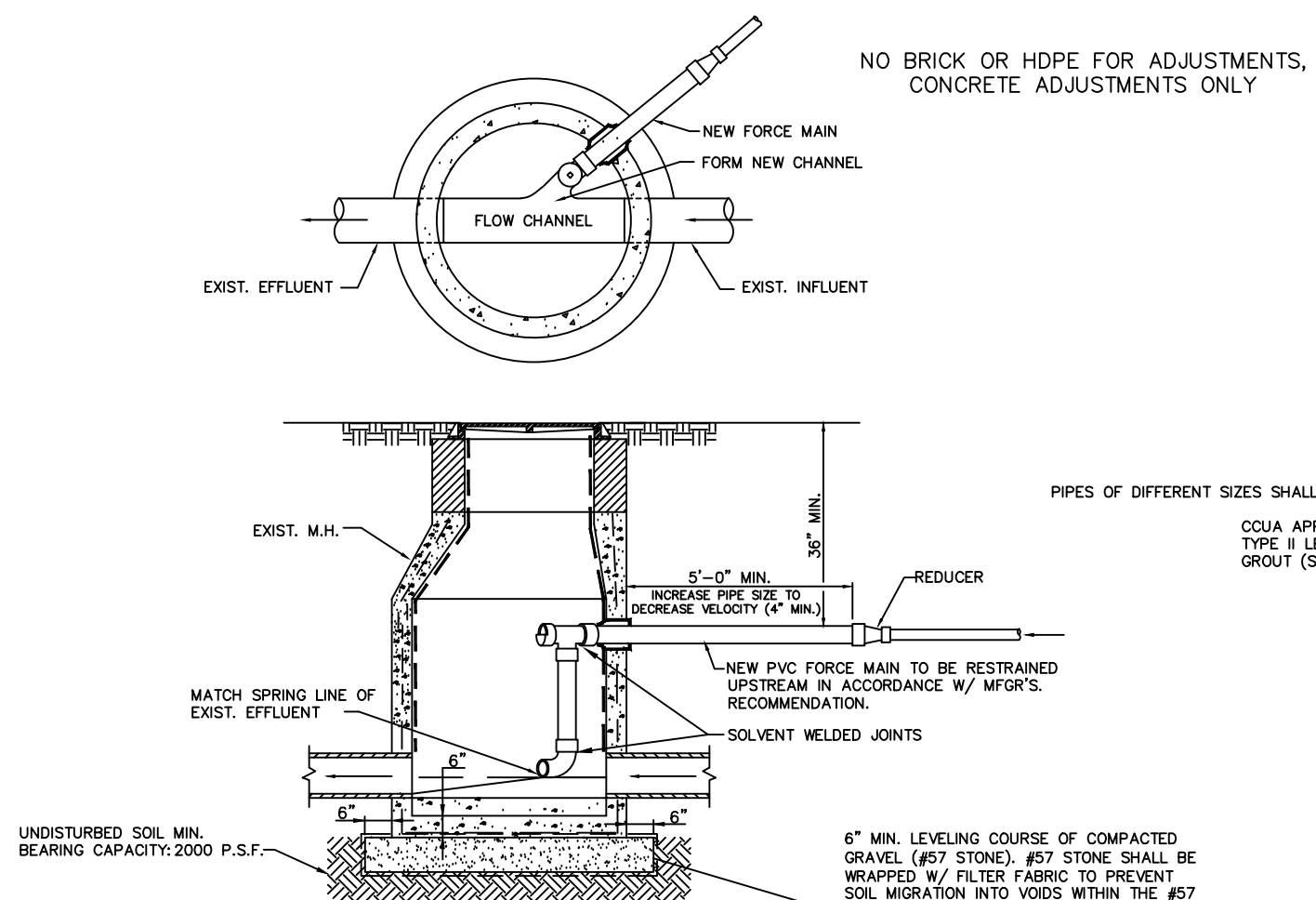
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PROJECT:  
**STANDARD LOCATOR WIRING INSTALLATIONS**

CITY OF  
**GREEN COVE SPRINGS**  
 321 WALNUT STREET  
 GREEN COVE SPRINGS, FLORIDA 32043

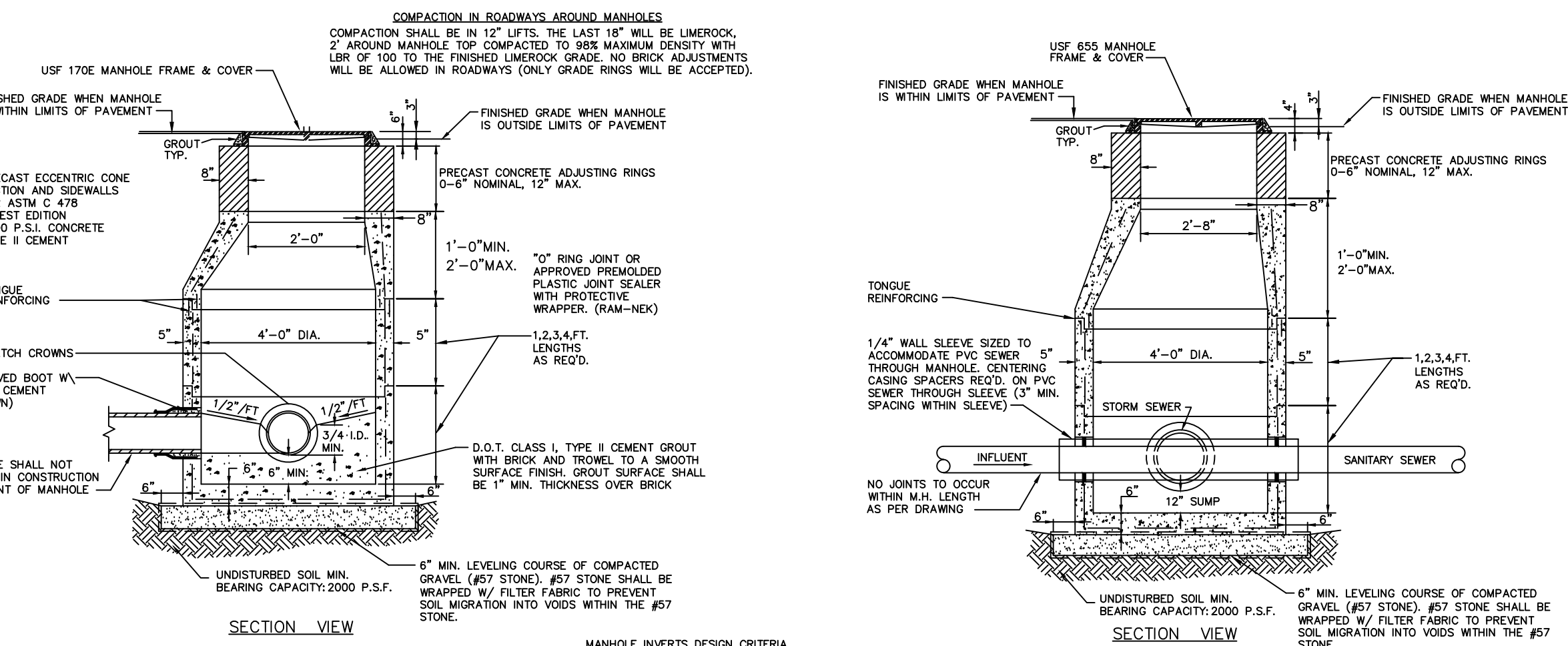


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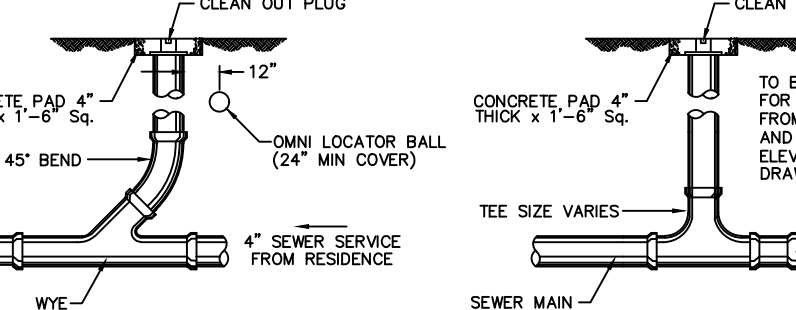


**TYP. FORCE MAIN CONNECTION TO MANHOLE**

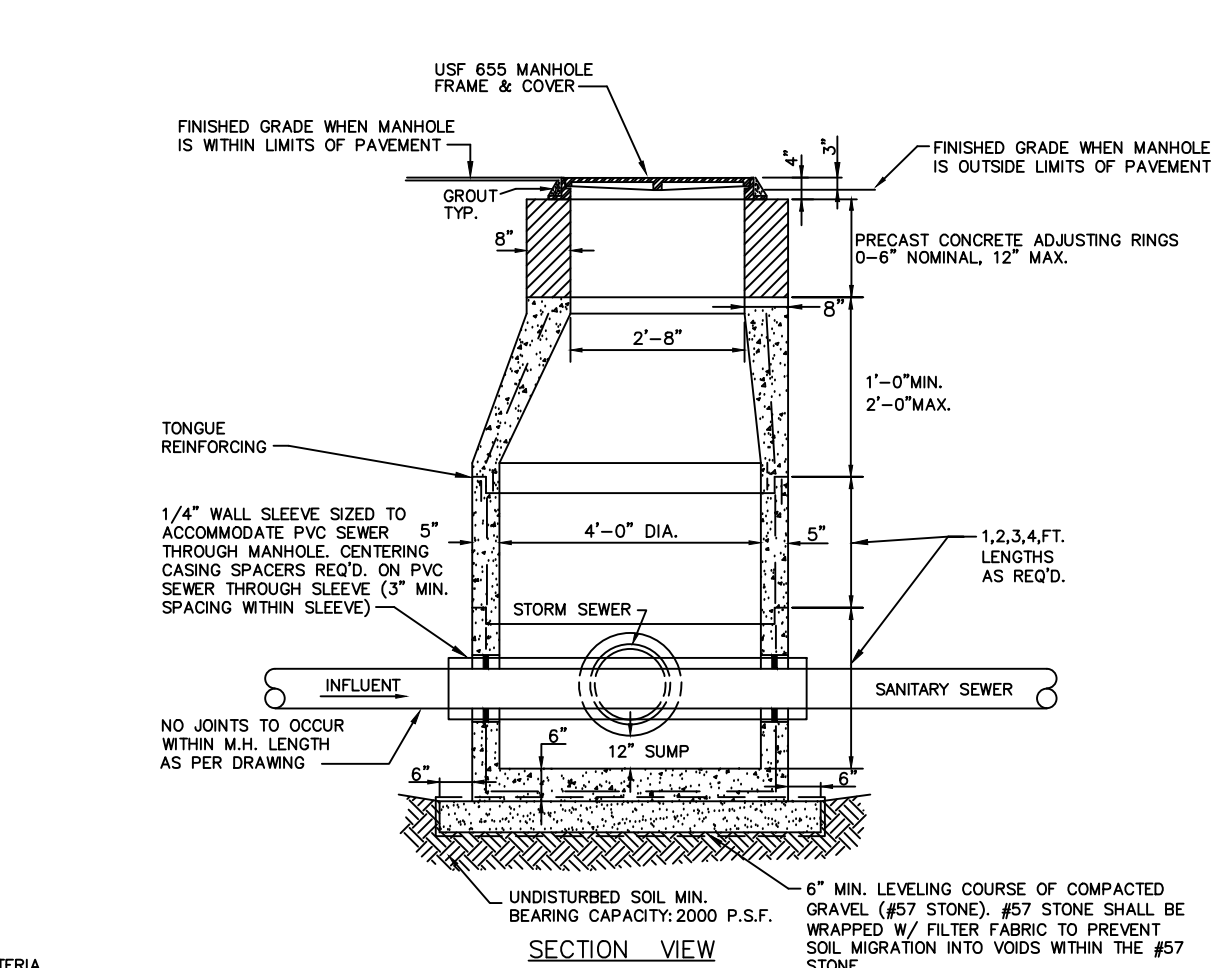
- NOTE: 1. THIS MANHOLE AND THE NEXT TWO MANHOLES DOWNSTREAM (AS REQUIRED BY UTILITY) ARE TO HAVE POLYETHYLENE LINER AS MANUFACTURED BY STANDARD PRECAST CO. (AGRU SURE GRIP) OR APPROVED EQUAL.
2. IF CONNECTION IS BEING MADE TO AN EXISTING MANHOLE, THAT MANHOLE AND THE NEXT TWO MANHOLES DOWNSTREAM (AS REQUIRED BY UTILITY), SHALL BE LINED WITH "SPECTRASHIELD" OR APPROVED EQUAL.
3. SIZE OF DROP PIPE CONNECTION TO MANHOLE SHALL BE DESIGNED BY THE PROJECT ENGINEER. MINIMUM SIZE SHALL BE 4" CONNECTION AND DROP PIPE SHALL BE SIZED TO REDUCE THE VELOCITY AND PREVENT "SPASHOVER" WITHIN THE MANHOLE. 5'-0" MINIMUM DISTANCE FROM MANHOLE TO REDUCER MAY BE INCREASED TO ASSIST IN THIS VELOCITY REDUCTION.



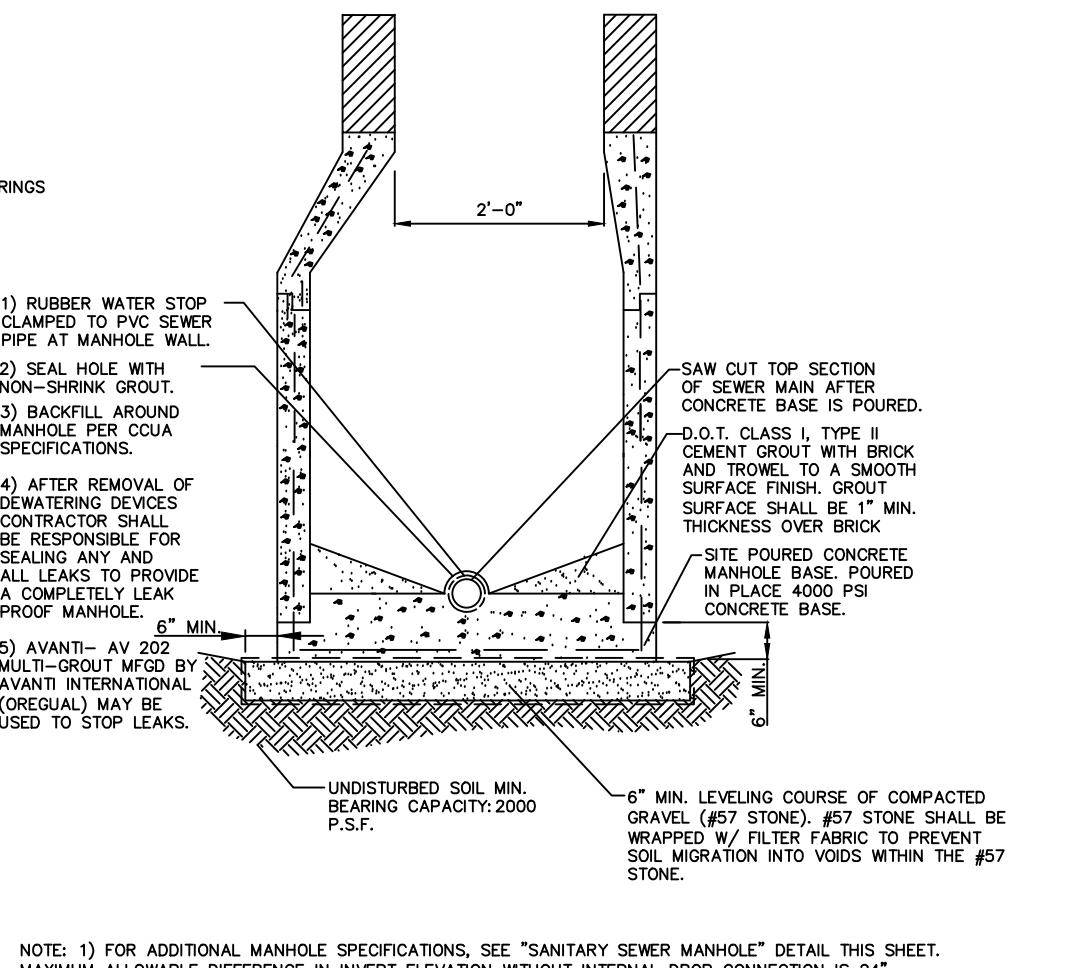
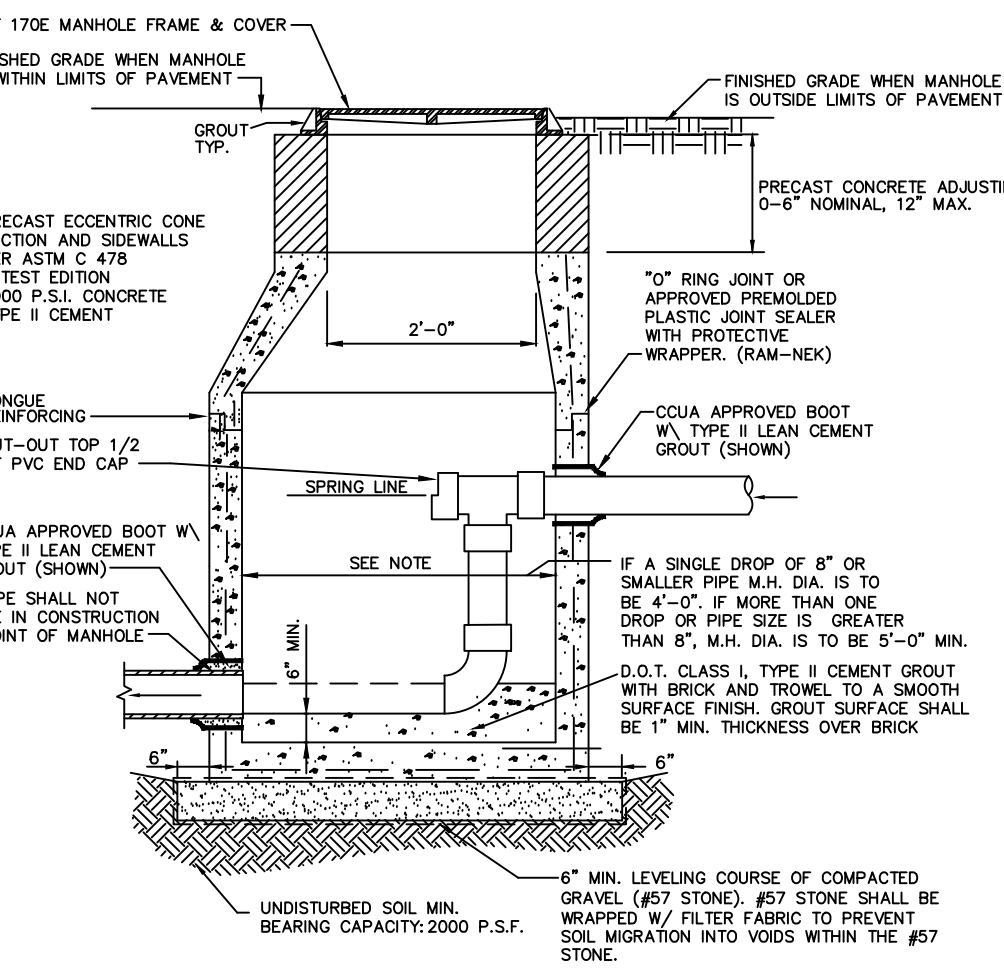
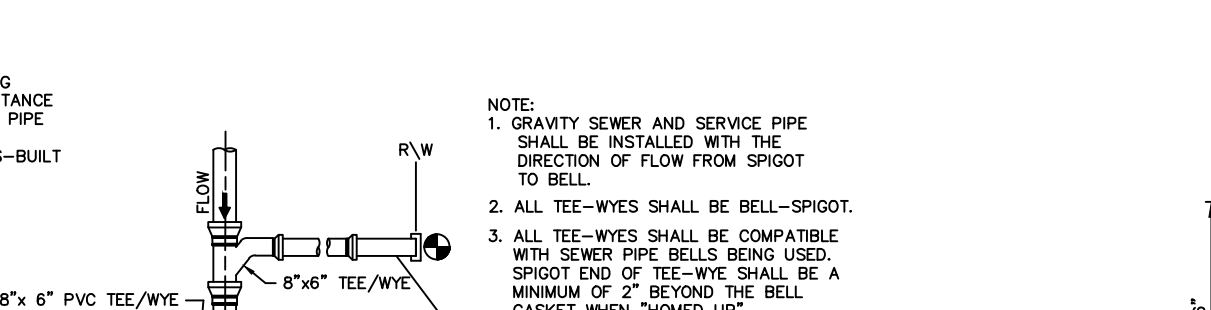
**SANITARY SEWER MANHOLE**



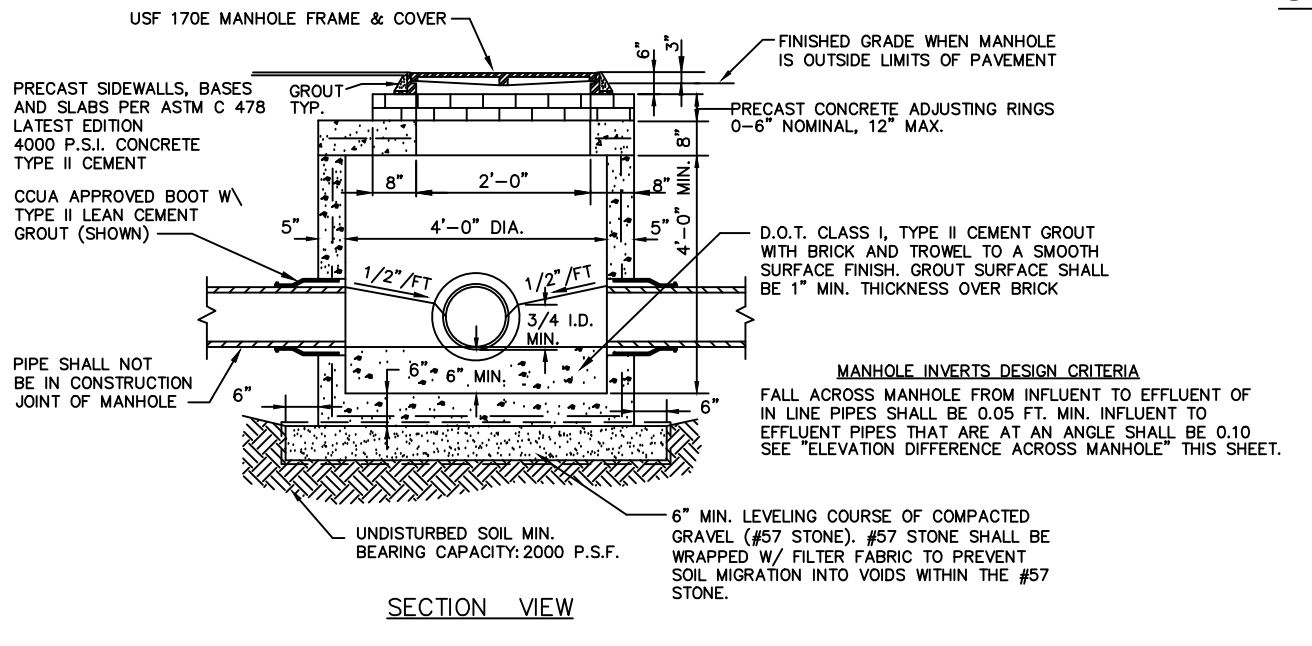
**STANDARD STUBOUT SURVEY ACCESSIBLE CLEANOUT**



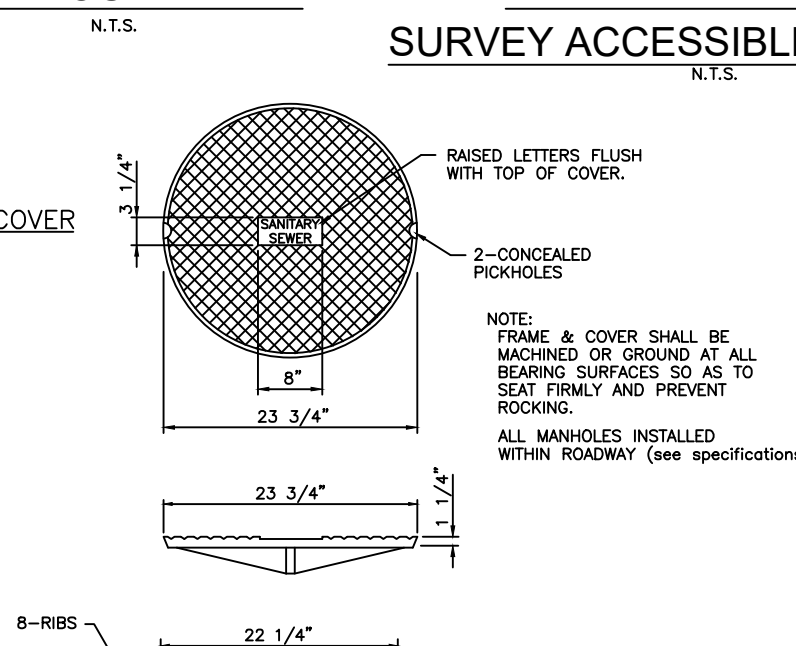
**STORM CONFLICT MANHOLE**



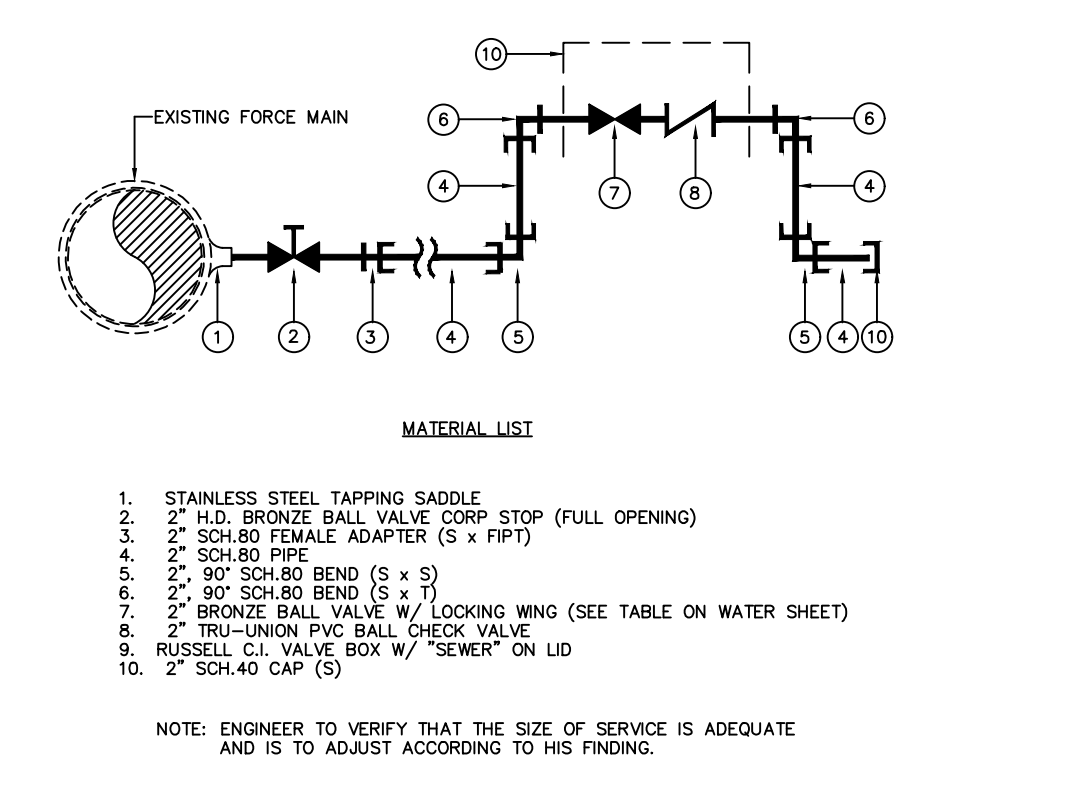
**SADDLE MANHOLE DETAIL SECTION**



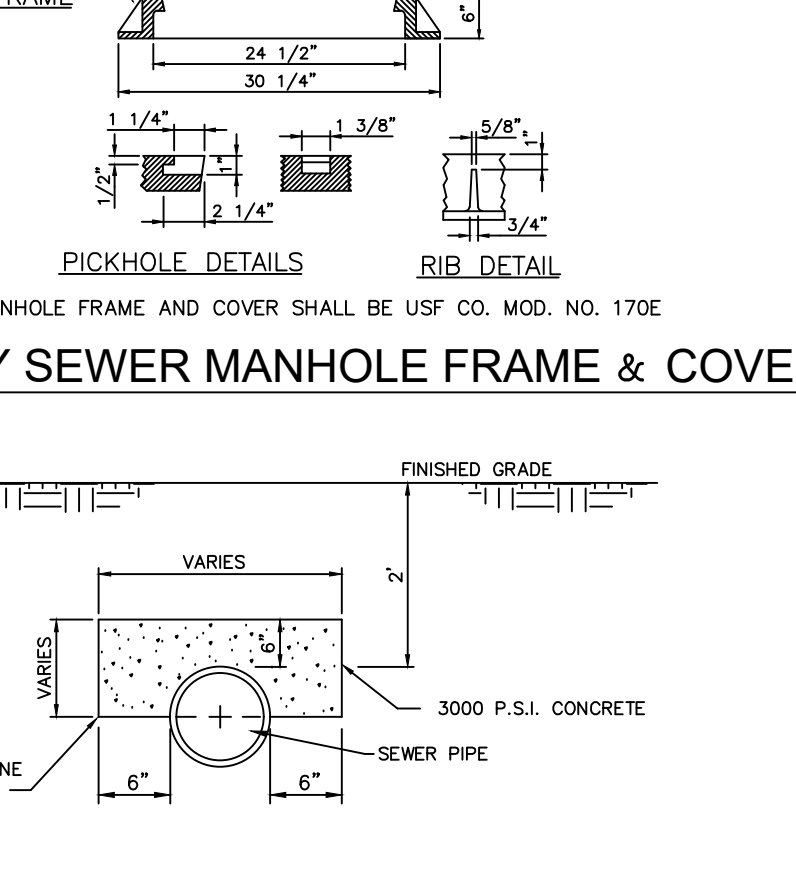
**SHALLOW SANITARY SEWER MANHOLE**



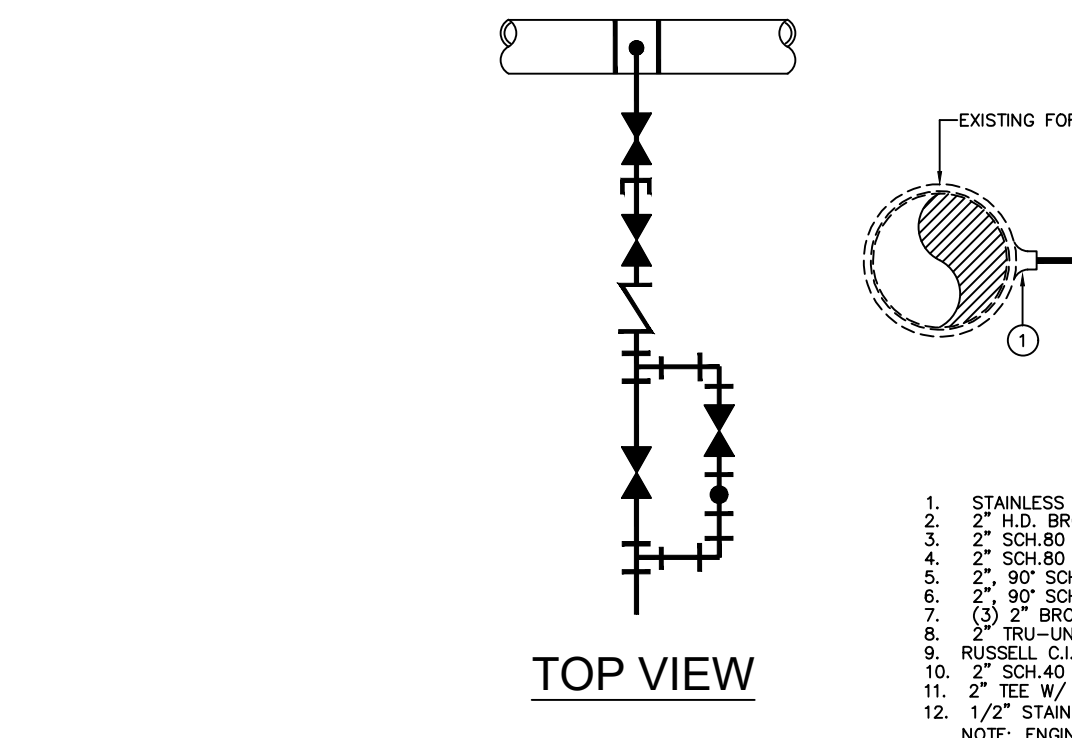
**SANITARY SEWER MANHOLE FRAME & COVER**



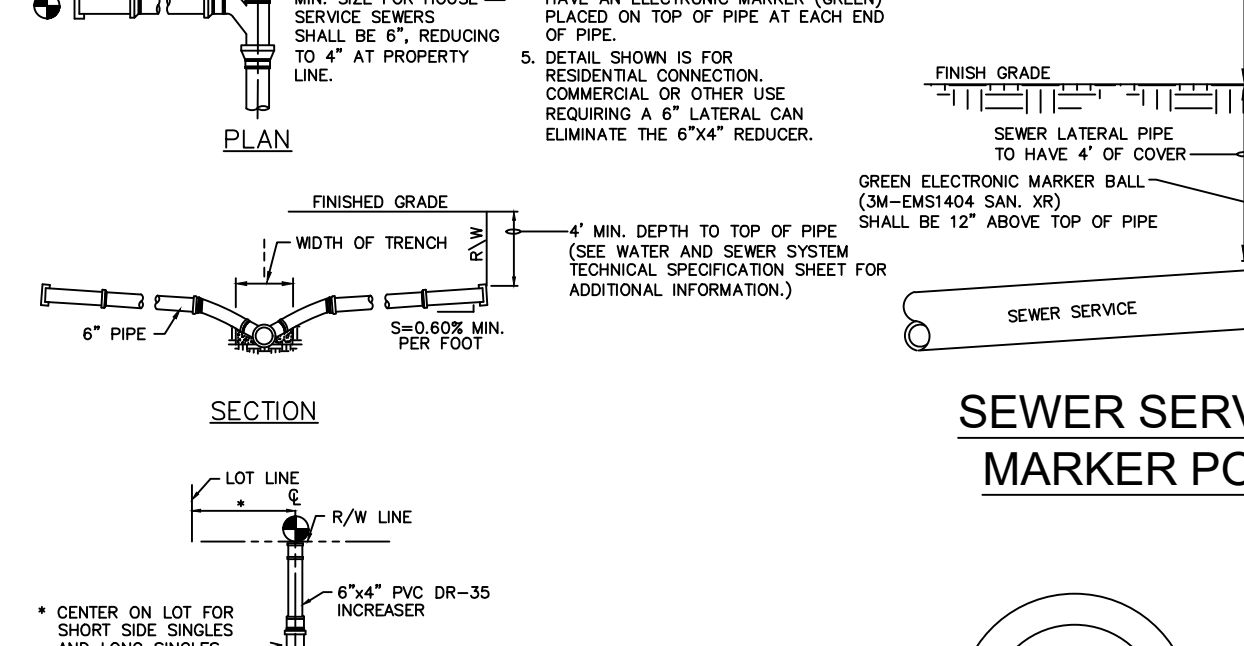
**2" SEWAGE FORCE MAIN MANIFOLD SERVICE CONNECTION DETAIL FOR MEDIUM TO HIGH PRESSURE CONNECTION SYSTEMS**



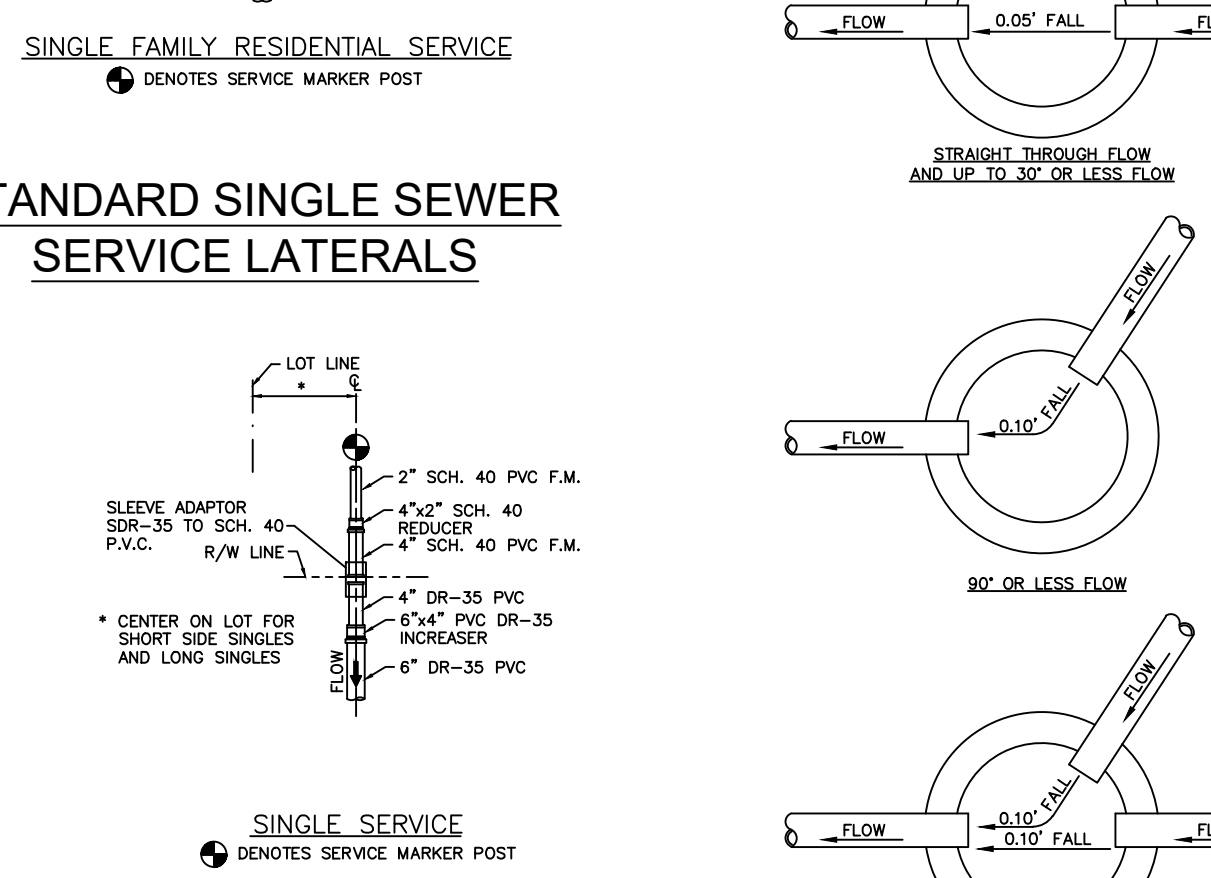
**CONCRETE CAP FOR SEWER PIPES**



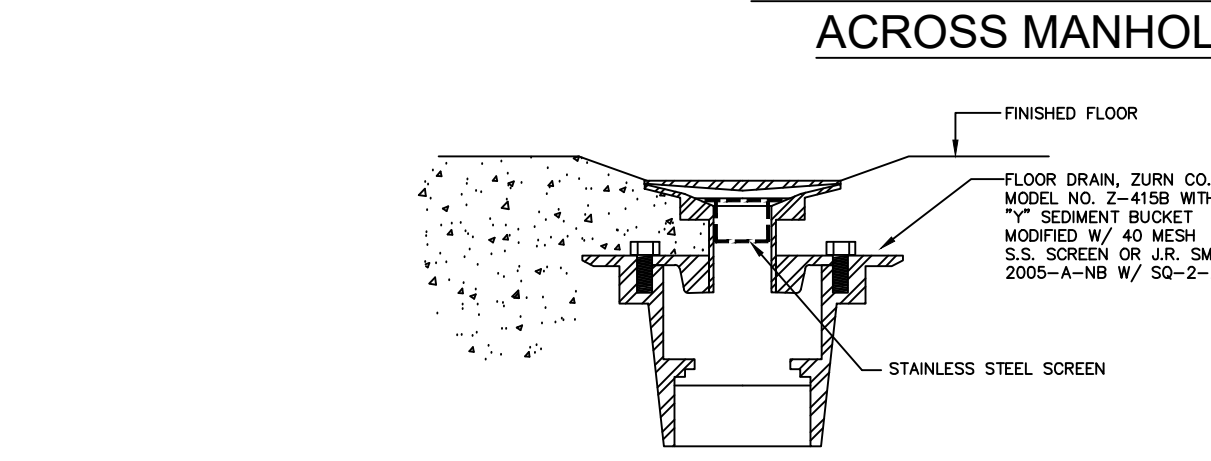
**" SEWAGE FORCE MAIN MANIFOLD SERVICE CONNECTION / WITH PRESSURE GAUGE FITTING / FOR LOW PRESSURE RECEIVING SYSTEMS FOR CREATING ARTIFICIAL HEAD PRESSURE**



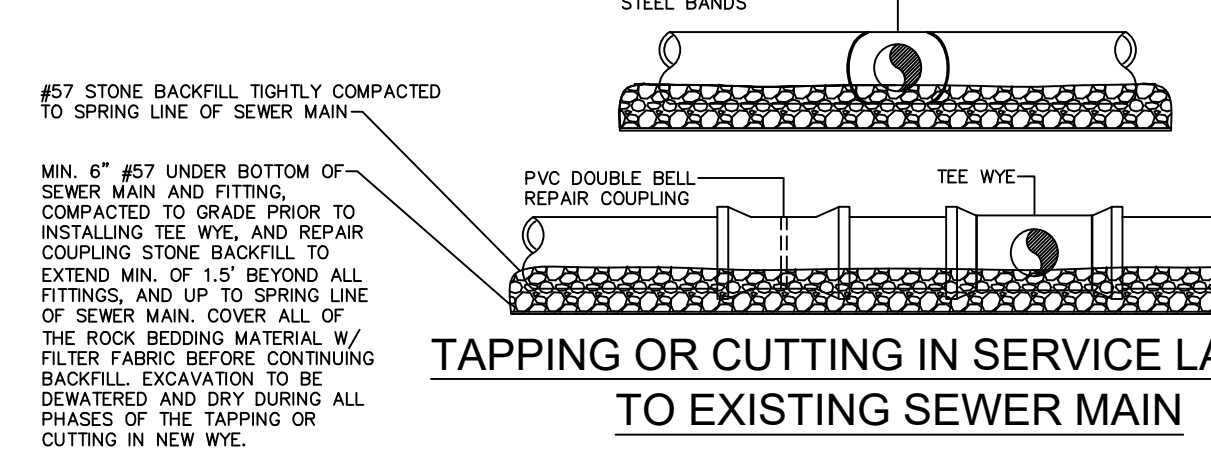
**STANDARD SINGLE SEWER SERVICE LATERALS**



**GRINDER PUMP STATION FORCE MAIN CONNECTION TO SINGLE GRAVITY SERVICE**

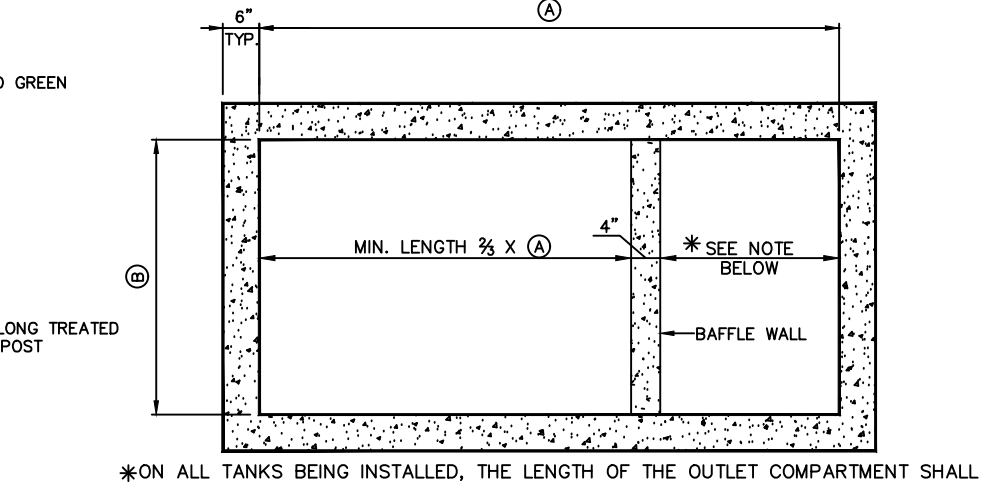


**ELEVATION DIFFERENCE ACROSS MANHOLE**

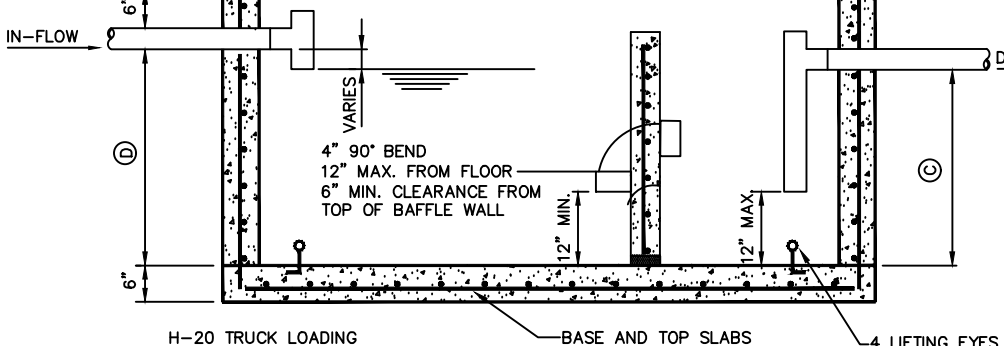


**FLOOR DRAIN WITH STRAINER DETAIL**

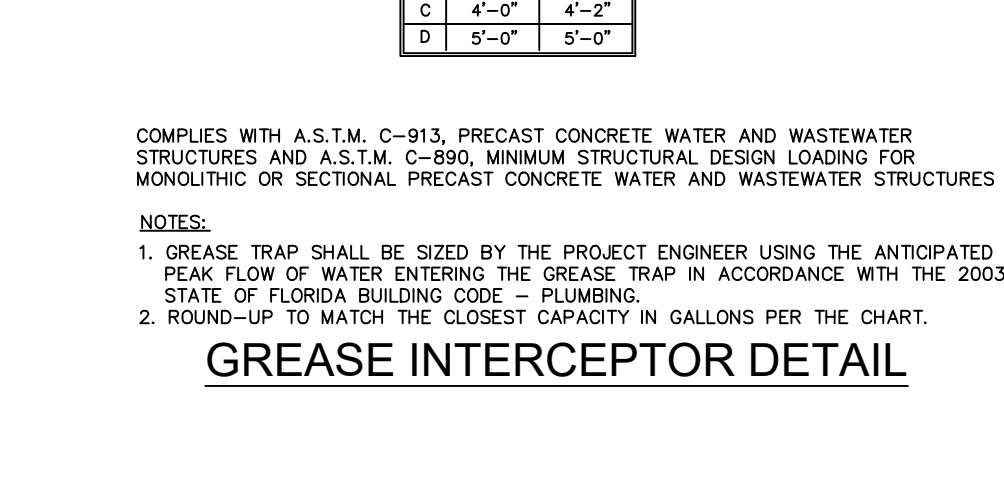
**TYPICAL GRAVITY SEWER DROP PIPE CONNECTION TO MANHOLE**



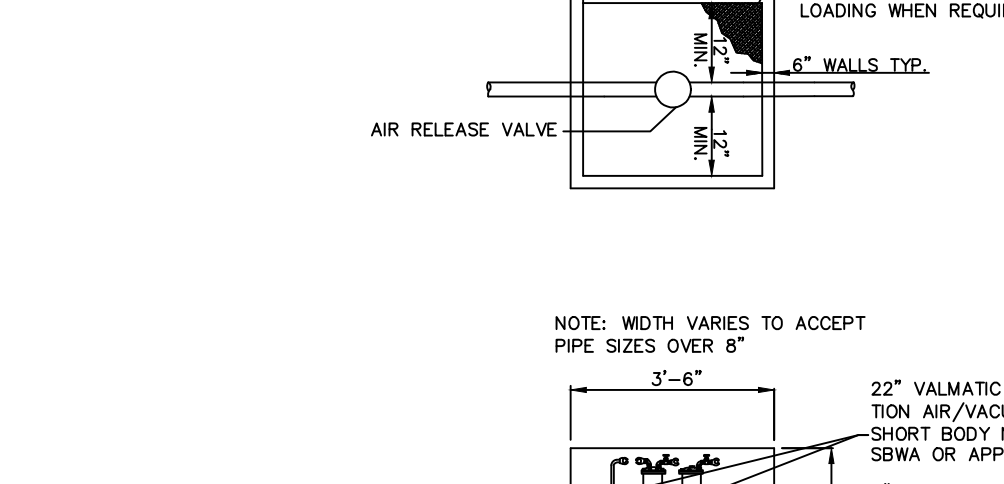
**SEWER SERVICE MARKER POST**



**GREASE INTERCEPTOR DETAIL**



**SANITARY SEWAGE FORCE MAIN AIR RELEASE VALVE VAULT**



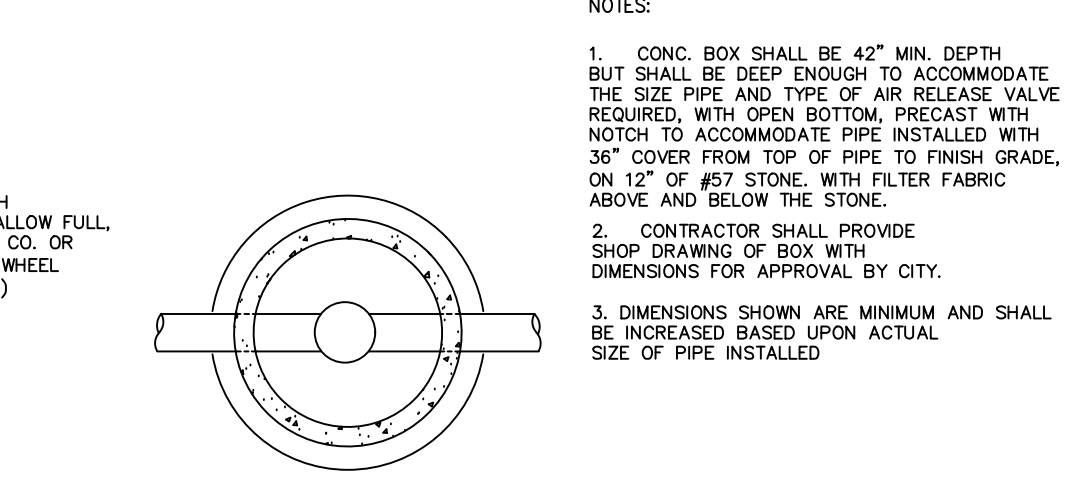
**SANITARY SEWAGE FORCE MAIN AIR RELEASE VALVE VAULT TO BE USED ON ALL PIPES 12" OR LARGER**

**PROCEDURES FOR CONNECTING TO A GRAVITY STUB**

NOTE: BEFORE CONNECTING TO ANY GRAVITY STUB, EXCAVATE AND SHOOT THE ELEVATION OF THE STUB INVERT AND THE ELEVATION OF THE INVERT OF THE SAME PIPE COMING OUT OF THE IMMEDIATE DOWNSTREAM MANHOLE. MEASURE THE DISTANCE FROM THE MANHOLE TO THE STUB. CALCULATE THE PIPE GRADE. IF THE GRADE ON THE PIPE IS LESS THAN PLAN DESIGN THEN CONTACT THE C.C.C.S. PUBLIC WORKS DEPARTMENT AND THE PROJECT ENGINEER BEFORE PROCEEDING FURTHER. THE PROJECT ENGINEER AND THE C.C.C.S. PUBLIC WORKS DEPARTMENT WILL MAKE THE DECISION ON HOW TO RESOLVE THE DISCREPANCY BEFORE THE CONTRACTOR CAN PROCEED FURTHER.

NO WORK WILL BE ALLOWED ON A GRAVITY LINE UPSTREAM OF THE CONNECTION POINT TO THE C.C.C.S. SYSTEM WITHOUT PRIOR APPROVAL OF THE C.C.C.S. PUBLIC WORKS DEPARTMENT.

**SANITARY SEWAGE FORCE MAIN AIR RELEASE VALVE VAULT**



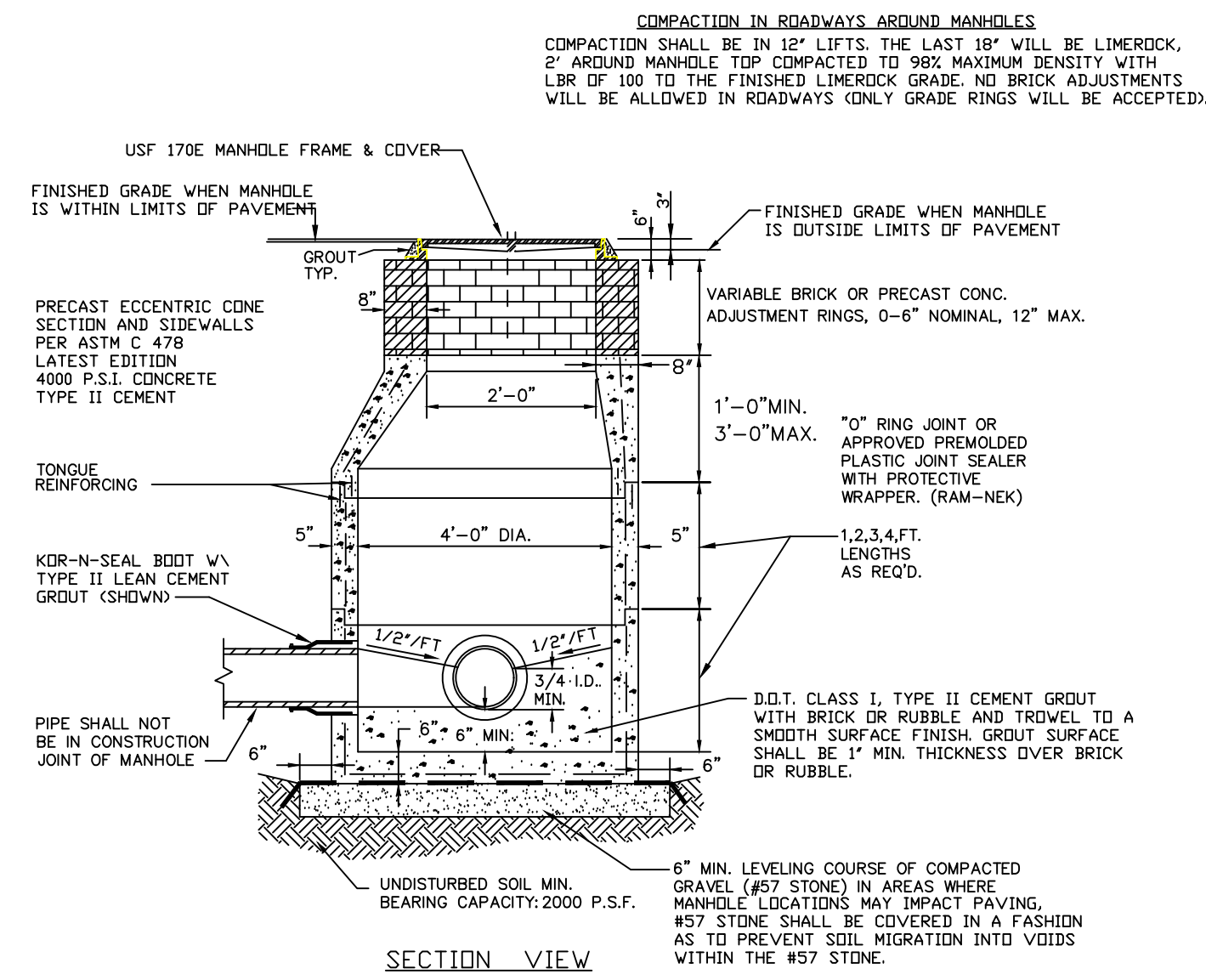
**SANITARY SEWAGE FORCE MAIN AIR RELEASE VALVE VAULT TO BE USED ON ALL PIPES 10" OR SMALLER**

PROJECT: **STANDARD SEWER SYSTEM DETAILS**

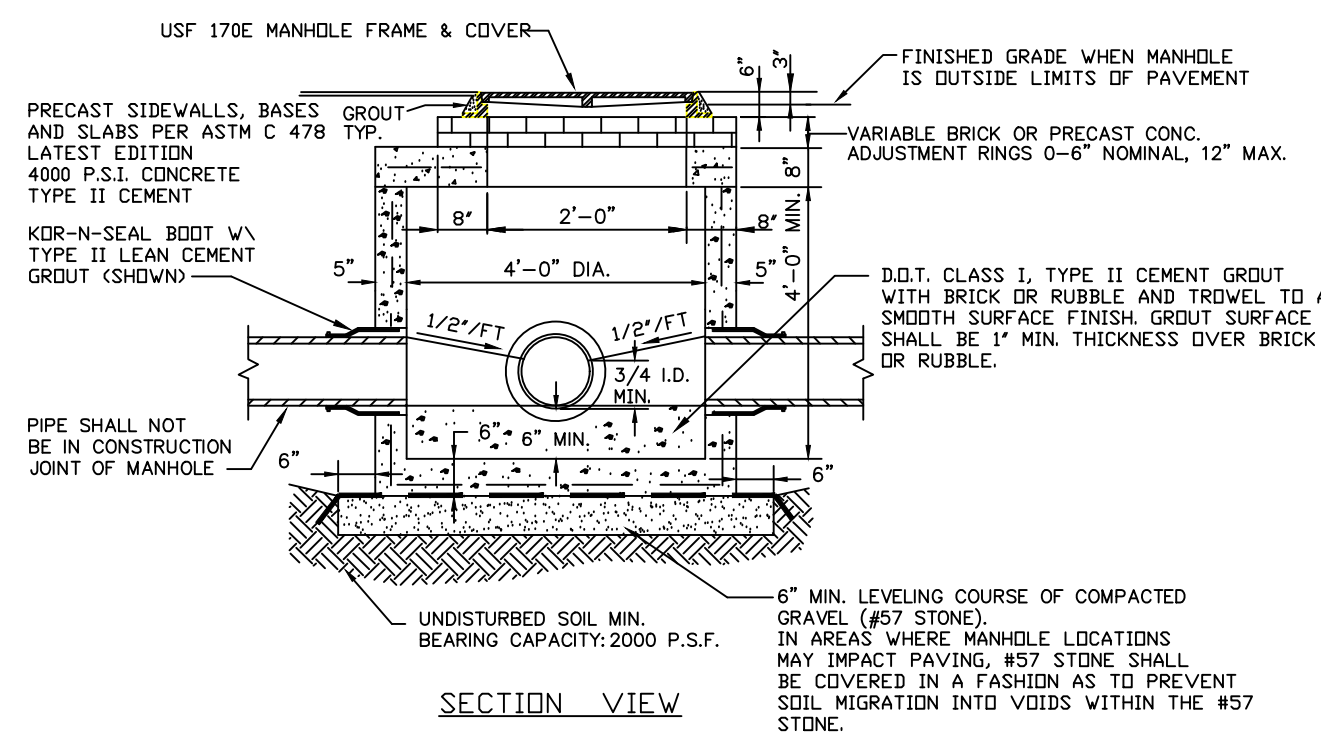
CITY OF **GREEN COVE SPRINGS**  
321 WALNUT STREET  
GREEN COVE SPRINGS, FLORIDA 32043

ACAD FILE NAME: **SEWSTAND.DWG**  
SHEET NO. **C19**  
1 OF 1

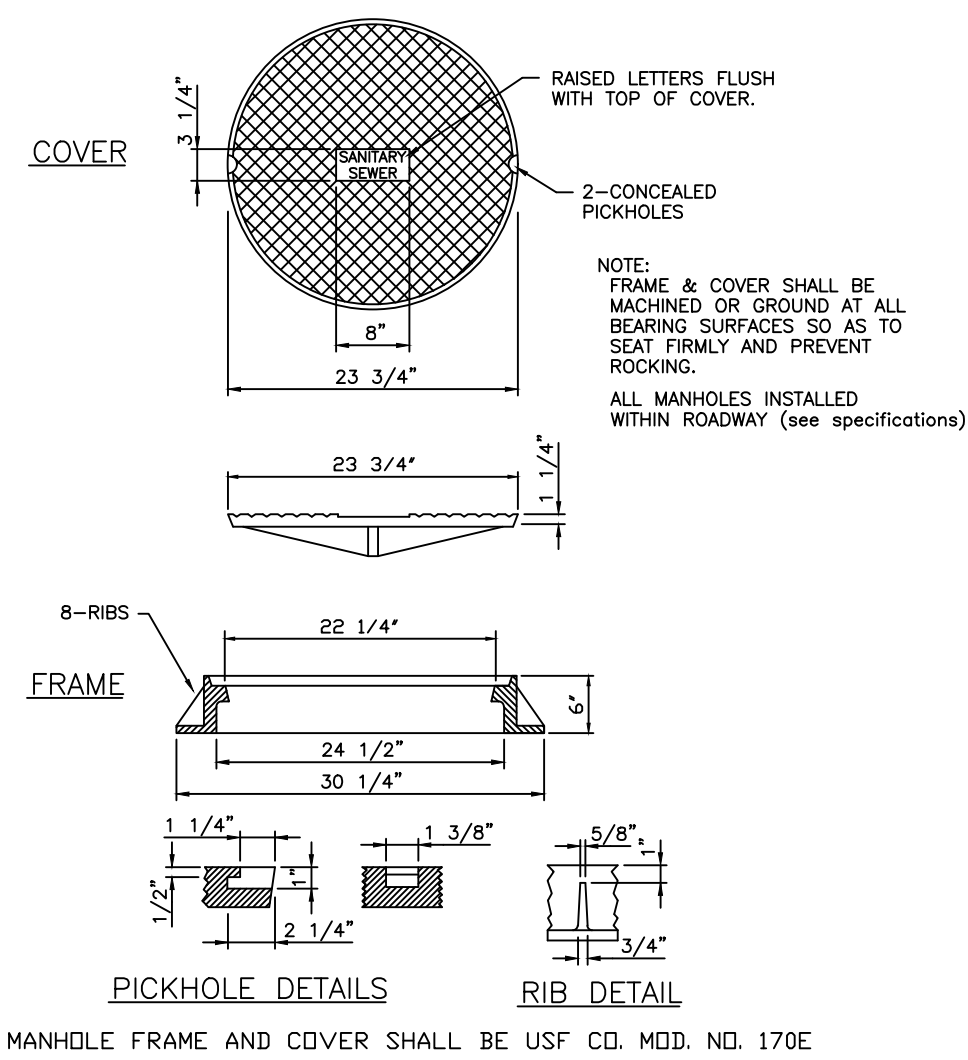
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NO DATE BY  
1 FEB/2016 SS GENERAL UPDATE



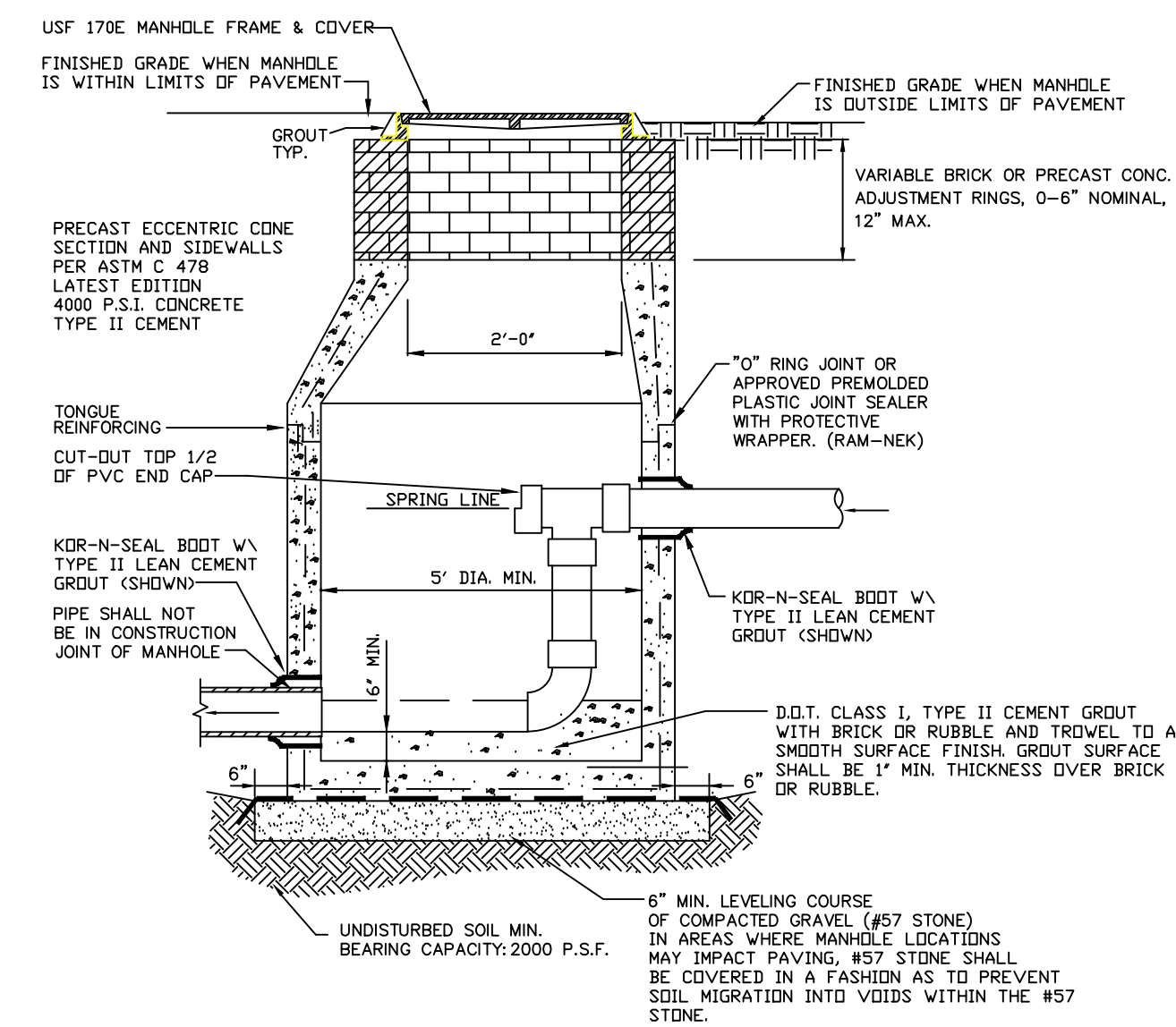
**SANITARY SEWER MANHOLE**



**SHALLOW SANITARY SEWER MANHOLE**

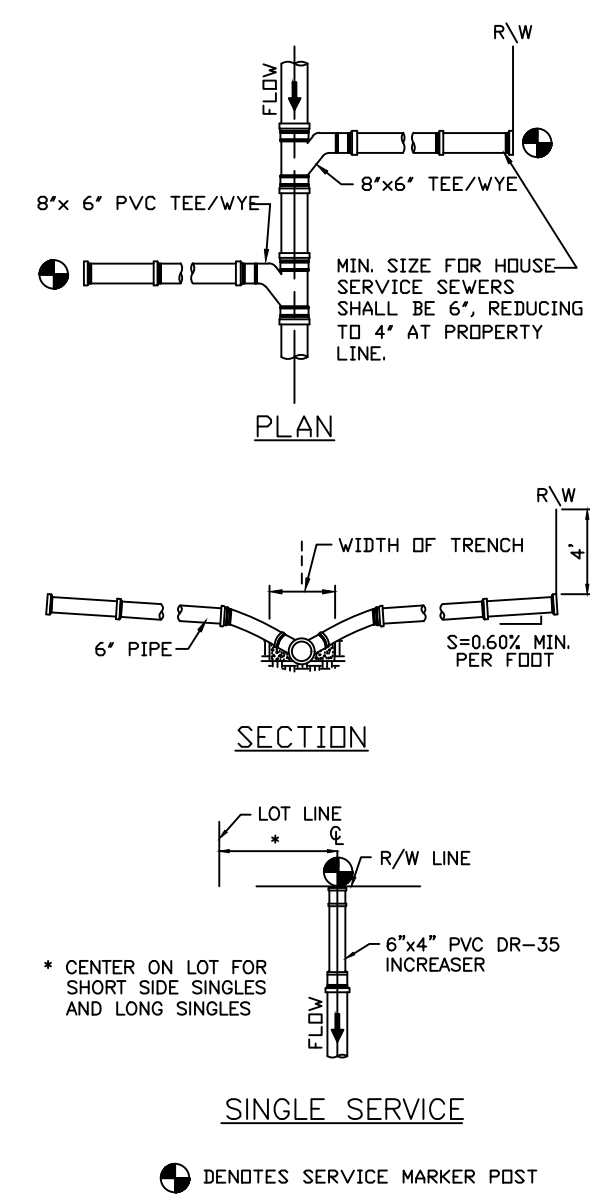


**SANITARY SEWER MANHOLE FRAME + COVER**

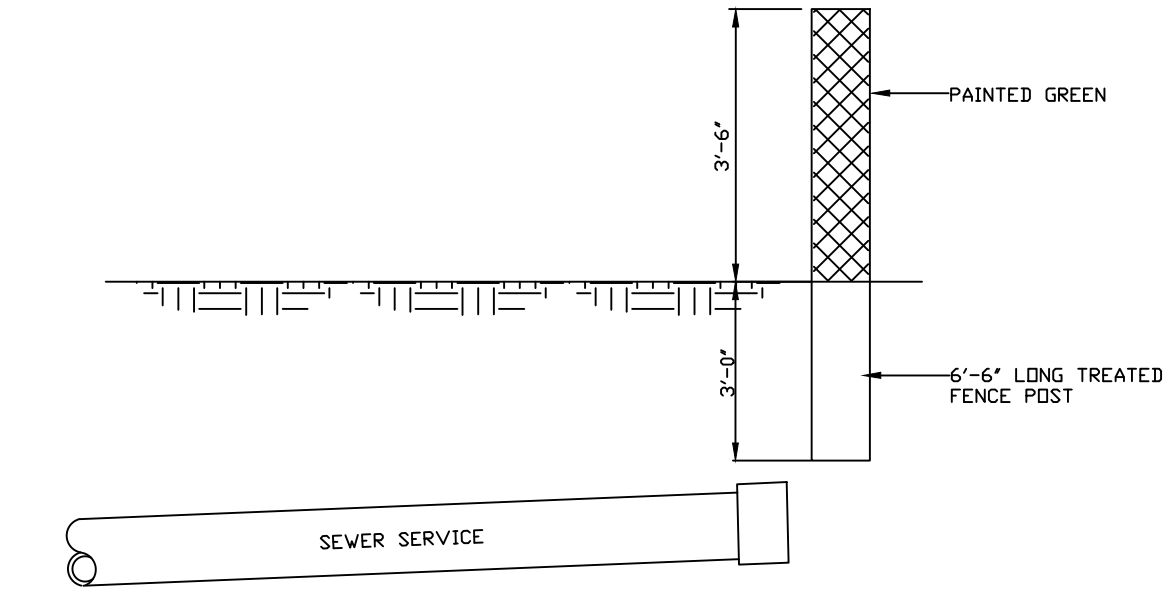


NOTE: FOR ADDITIONAL MANHOLE SPECIFICATIONS, SEE "SANITARY SEWER MANHOLE" DETAIL THIS SHEET. MAXIMUM ALLOWABLE DIFFERENCE IN INVERT ELEVATION WITHOUT INTERNAL DROP CONNECTION IS 24".

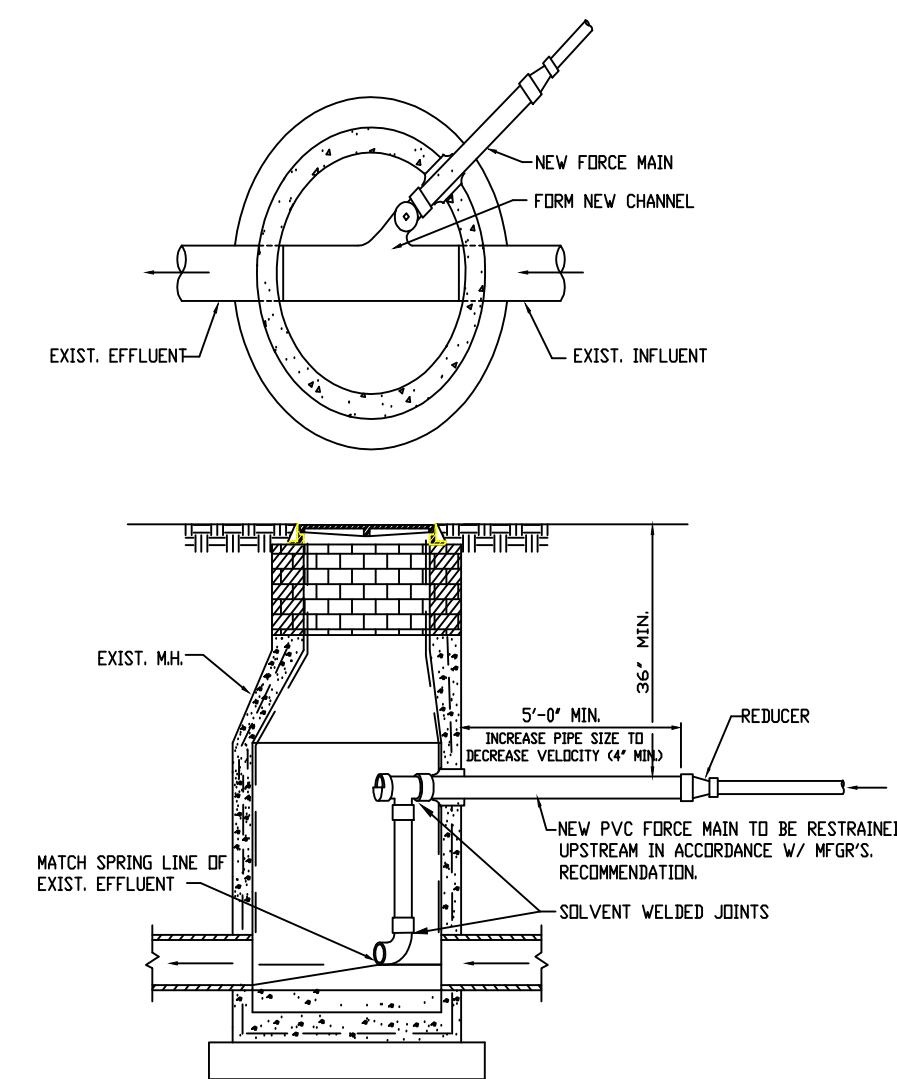
**TYPICAL GRAVITY SEWER DROP PIPE CONNECTION TO MANHOLE**



**STANDARD SINGLE SEWER SERVICE LATERALS**

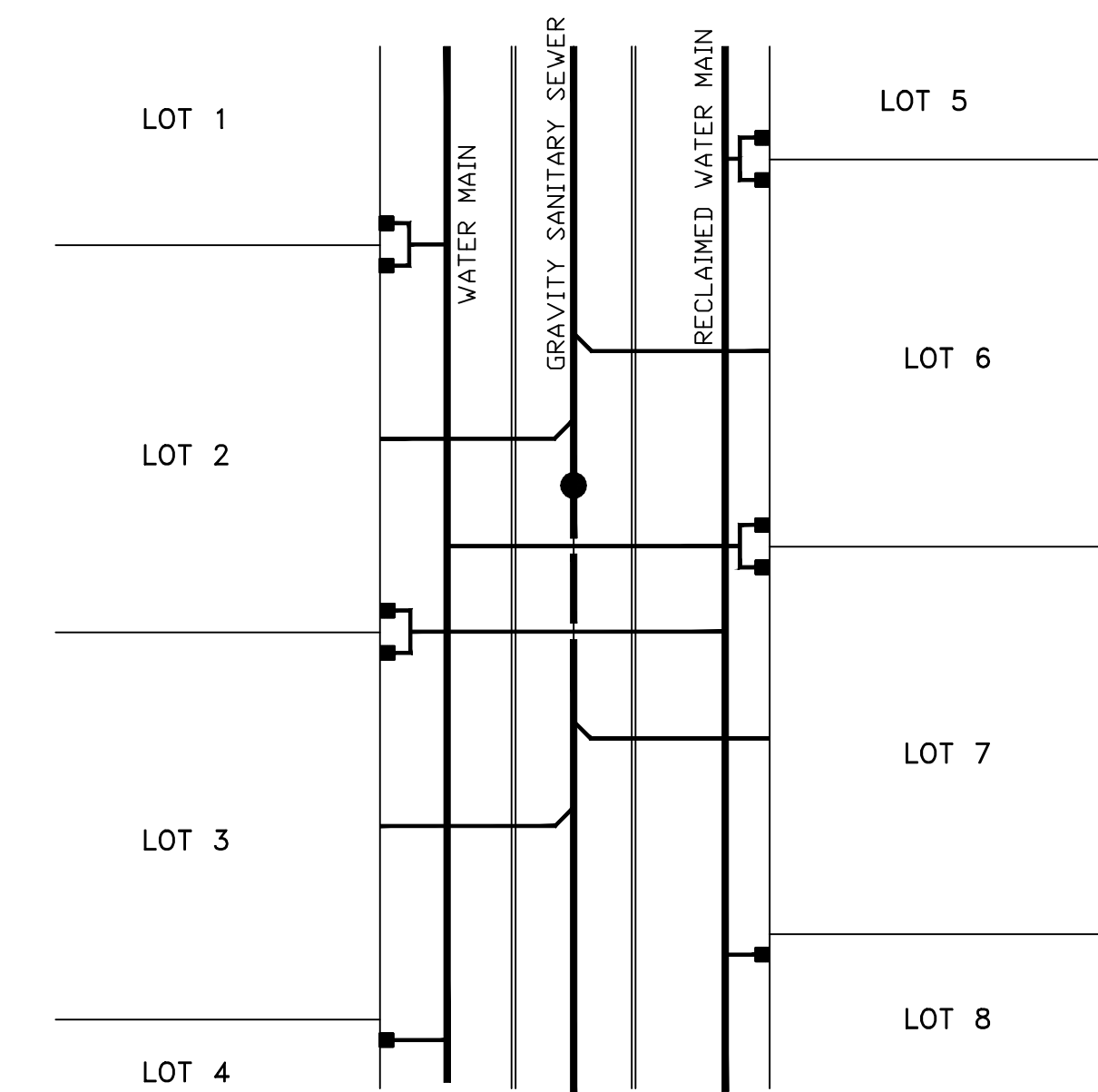


**SEWER SERVICE MARKER POST**



**TYP. FORCE MAIN CONNECTION TO MANHOLE**

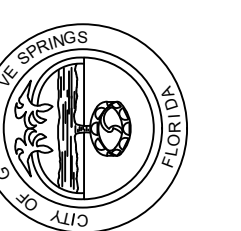
- NOTE: 1. THIS MANHOLE AND THE NEXT TWO MANHOLES DOWNSTREAM (AS REQUIRED BY UTILITY) ARE TO HAVE POLYETHYLENE LINER AS MANUFACTURED BY TAYLOR PRECAST CO. OR APPROVED EQUAL.  
 2. SIZE OF DROP PIPE CONNECTION TO MANHOLE SHALL BE DESIGNED BY THE PROJECT ENGINEER. MINIMUM SIZE SHALL BE 4". CONNECTION AND DROP PIPE SHALL BE SIZED TO REDUCE THE VELOCITY AND PREVENT "SPLASHOVER" WITHIN THE MANHOLE. 5'-0" MINIMUM DISTANCE FROM MANHOLE TO REDUCER MAY BE INCREASED TO ASSIST IN THIS VELOCITY REDUCTION.



**TYPICAL WATER AND SEWER SERVICE LOCATION PLAN**

- 1) ALL WATER AND REUSE DOUBLE SERVICES ON PROPERTY LINE.  
 2) ANY SINGLE WATER OR REUSE SERVICE LINES ON LOT LINE.  
 3) ALL SEWER SERVICES ARE TO CENTER OF LOTS.

CITY OF  
 GREEN COVE SPRINGS  
 321 WALNUT STREET  
 GREEN COVE SPRINGS, FLORIDA 32043



NO.	DATE	BY	REVISION DESCRIPTION
1	FEB 2016	SS	GENERAL UPDATES

<b>PHASE</b>	<b>USE</b>	<b>INTENSITY</b>	<b>DATE OF</b>	<b>DATE OF</b>
			<b>COMMENCEMENT</b>	<b>COMPLETION</b>
<b>1</b>	<b>MULTIFAMILY</b>	<b>28DU</b>	<b>10/1/2024</b>	<b>3/1/2025</b>