

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

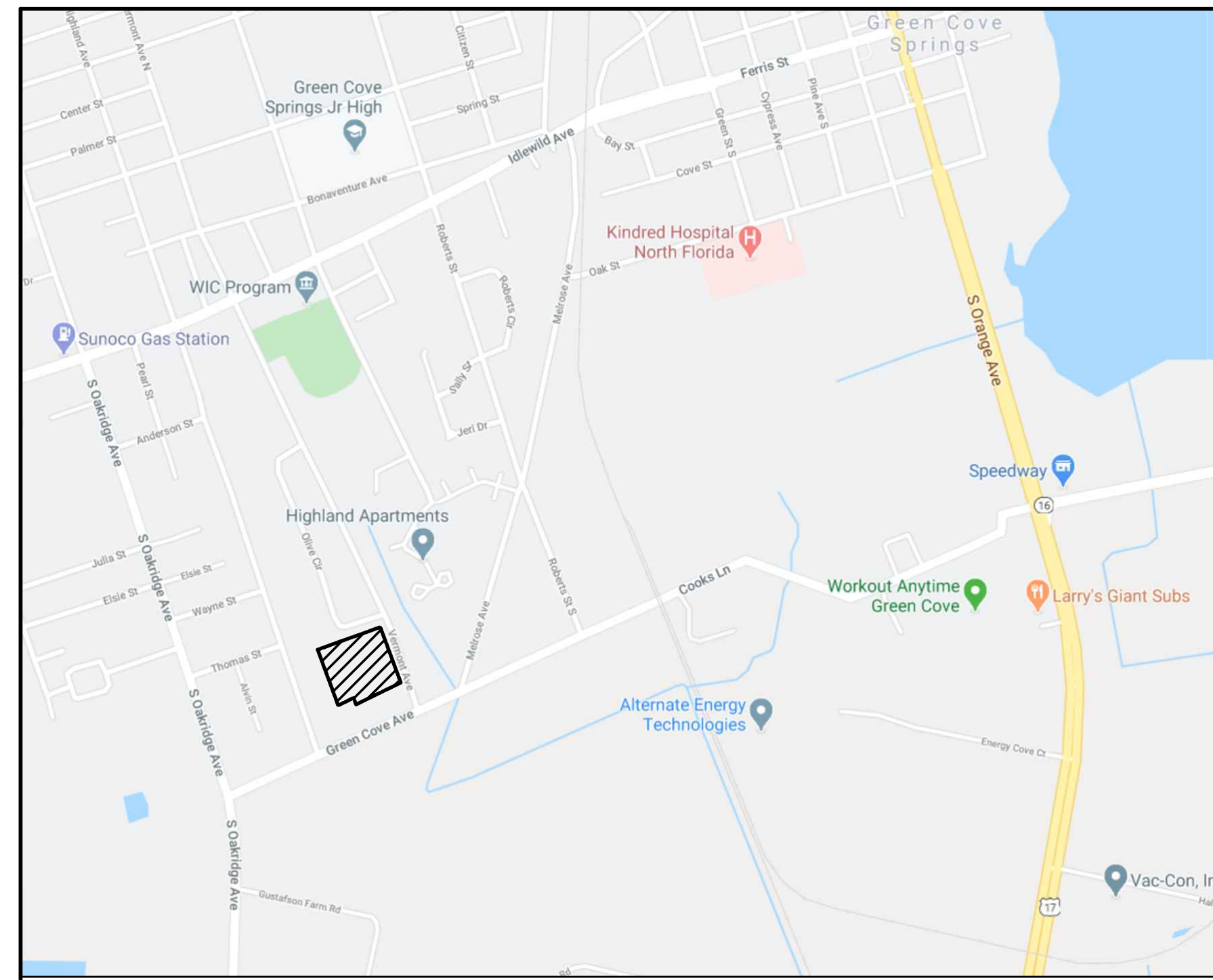
PROJECT OWNER AND CONSULTANTS

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 SOUTHPOINT 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

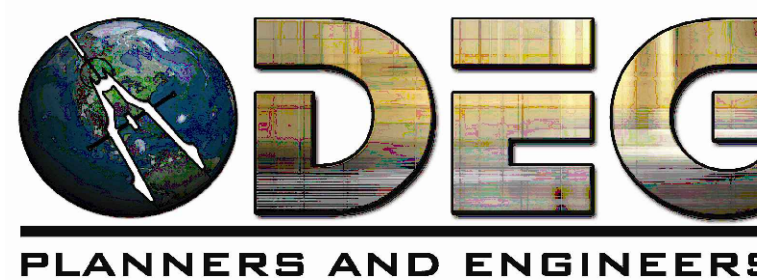


LOCATION MAP
N.T.S.



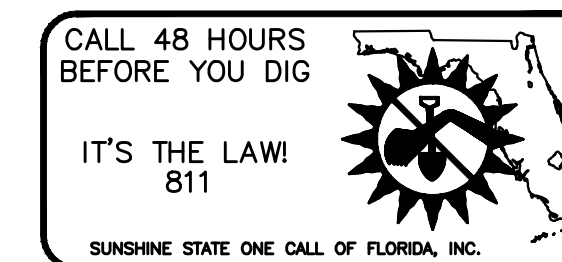
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REGISTRY No. 26821

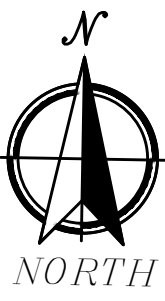
PIN # 38-06-26-016748-000-00



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)



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PLANNERS AND ENGINEERS
 4348 SOUTHPOINT BLVD, SUITE 204, JACKSONVILLE, FLORIDA 32216
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 www.dom-eng.com

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

REVISIONS

PLOT DATE:
 DRAWN BY: JMM
 DESIGNED BY: WES
 CHECKED BY: WES
 SCALE: AS NOTED
 JOB NO.:
 © LATEST DATE HEREON
 SHEET NO.
C2
 OF

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	SS/SB

- 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

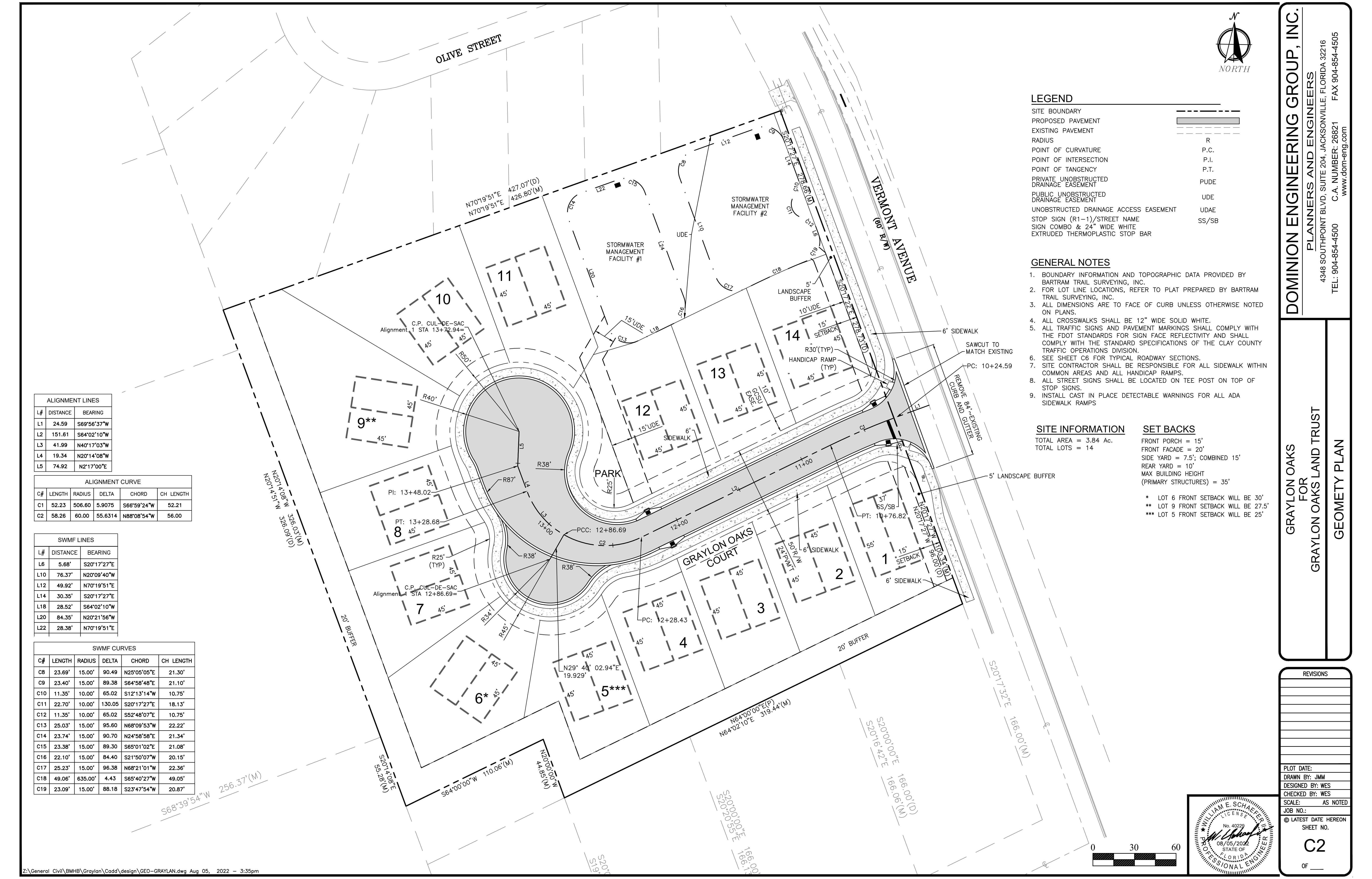
C#	LENGTH	RADIUS	DELTA	CHORD	CH LENGTH
C1	52.23	506.60	5.9075	S66°59'24"W	52.21
C2	58.26	60.00	55.6314	N88°08'54"W	56.00

SWMF LINES

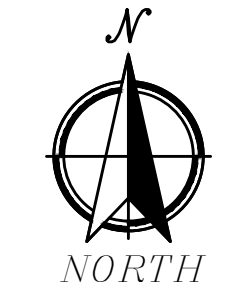
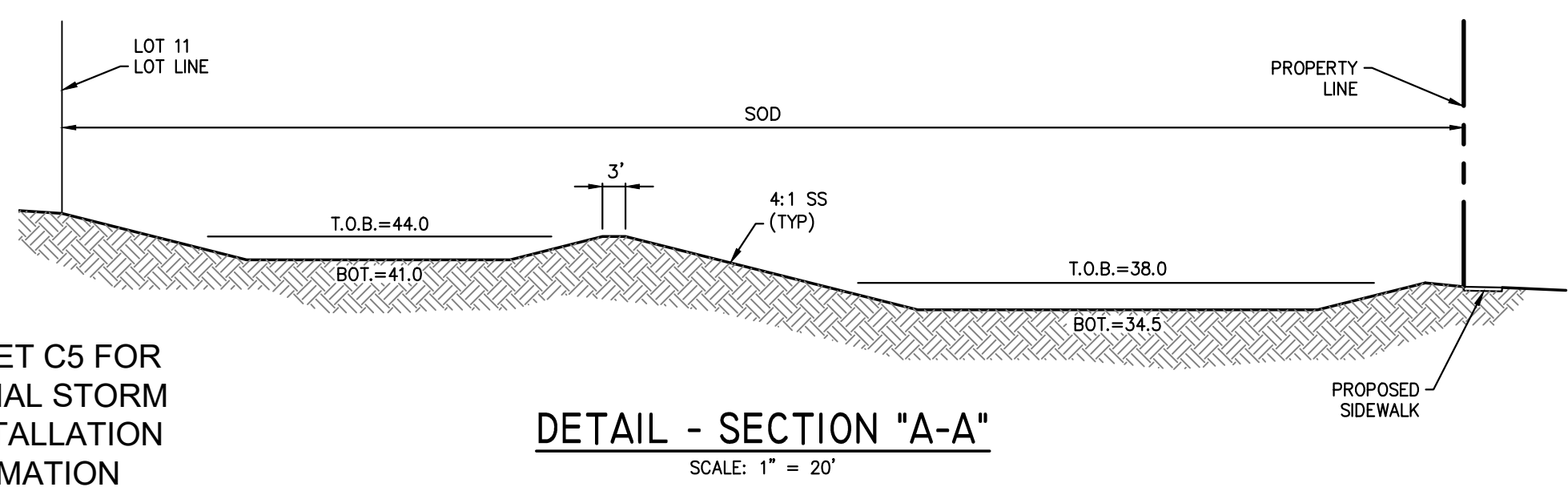
L#	DISTANCE	BEARING
L6	5.68'	S20°17'27"E
L10	76.37'	N20°09'40"W
L12	49.92'	N70°19'51"E
L14	30.35'	S20°17'27"E
L18	28.52'	S64°02'10"W
L20	84.35'	N20°21'56"W
L22	28.38'	N70°19'51"E

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'



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



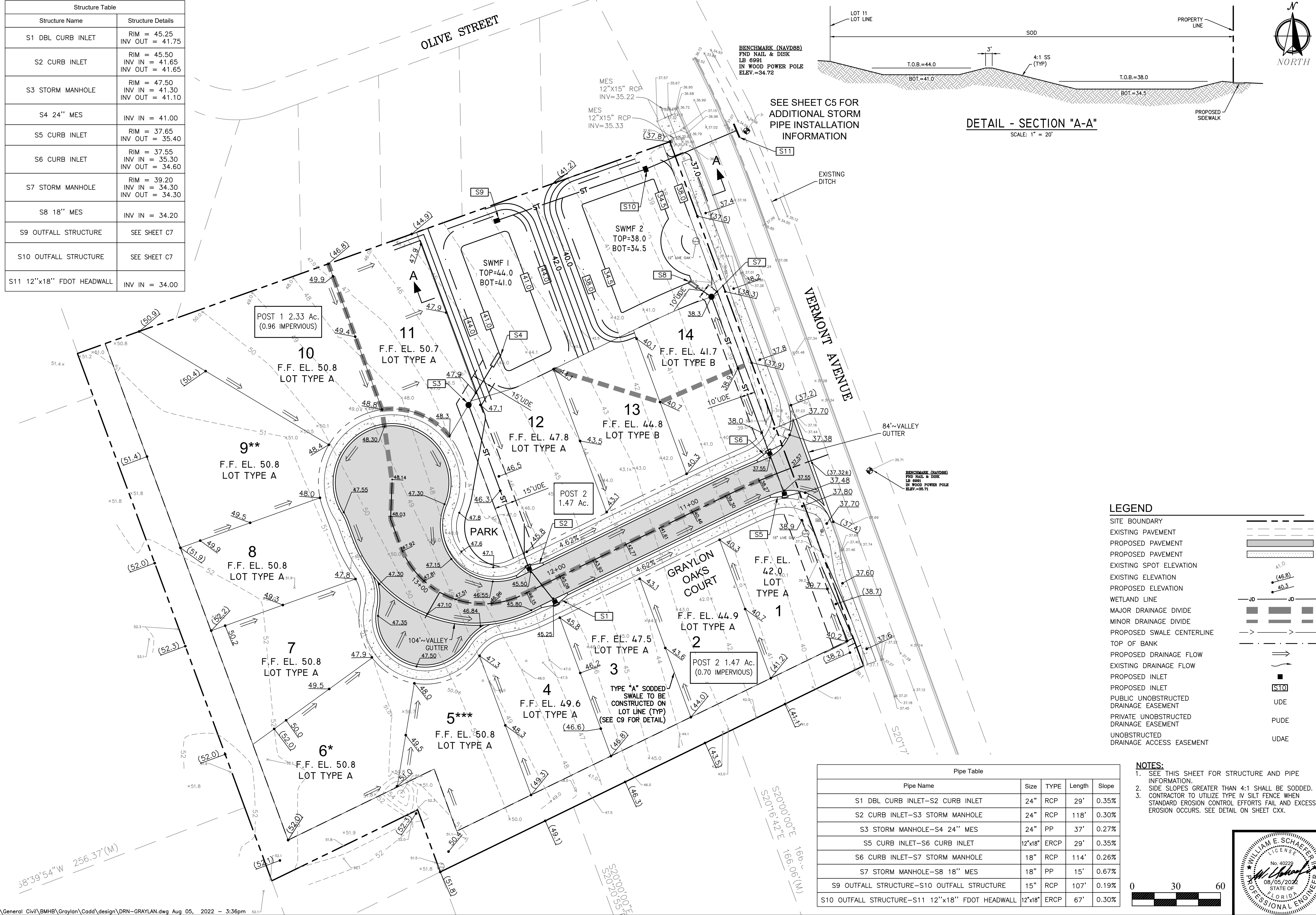
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GRAYLON OAKS
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GRAYLON OAKS LAND TRUST
PAVING AND DRAINAGE PLAN

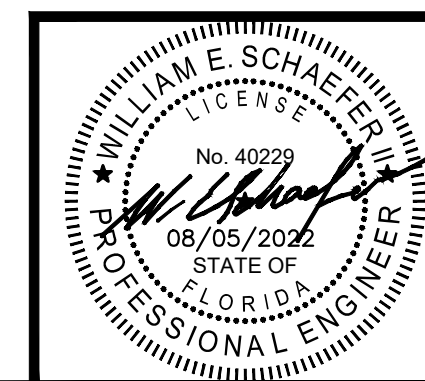
REVISIONS

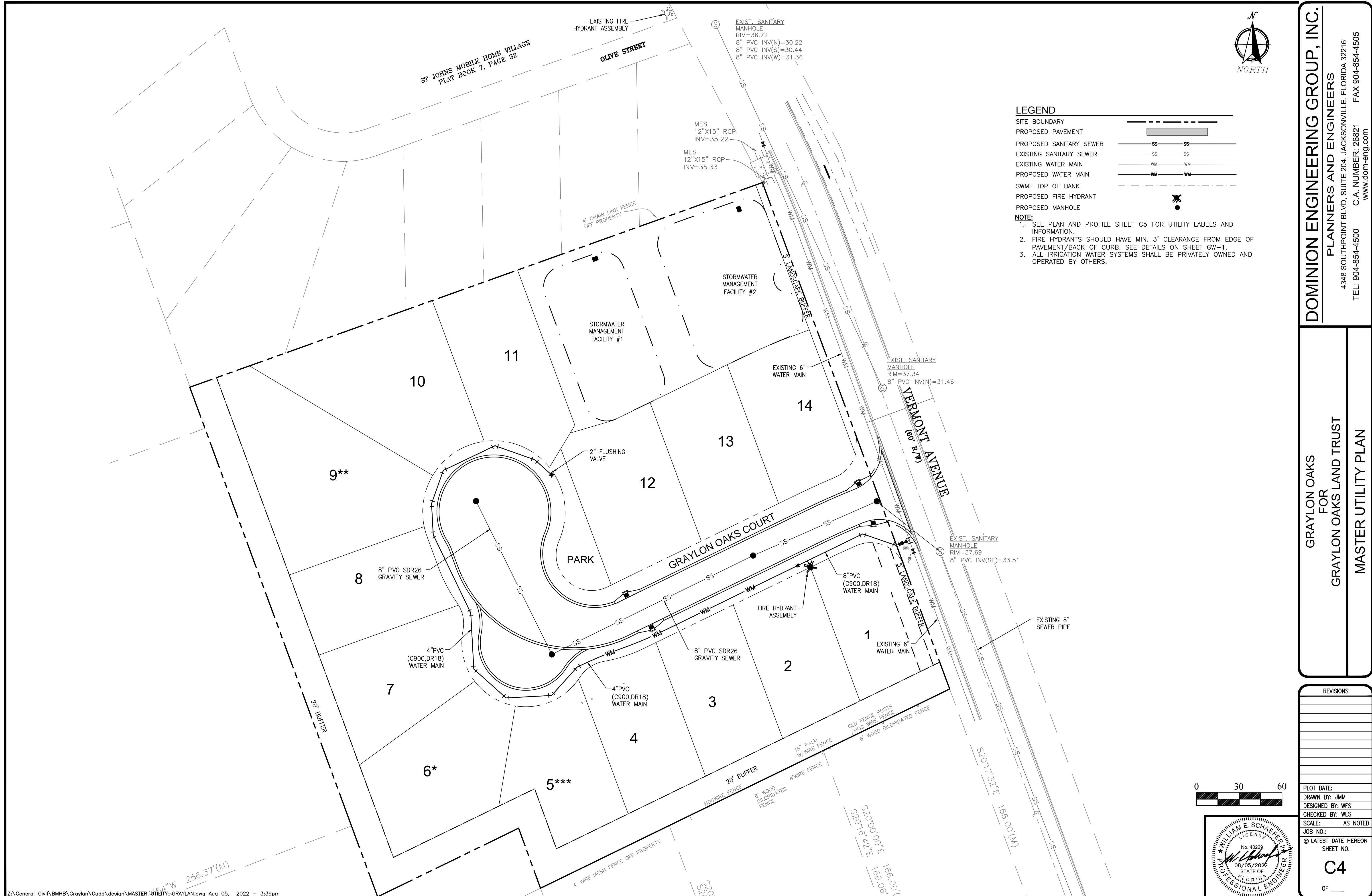
NO.	DESCRIPTION

PLOT DATE: _____
DRAWN BY: JMM
DESIGNED BY: WES
CHECKED BY: WES
SCALE: AS NOTED
JOB NO.: _____
© LATEST DATE HEREON
SHEET NO. **C3**
OF _____



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%

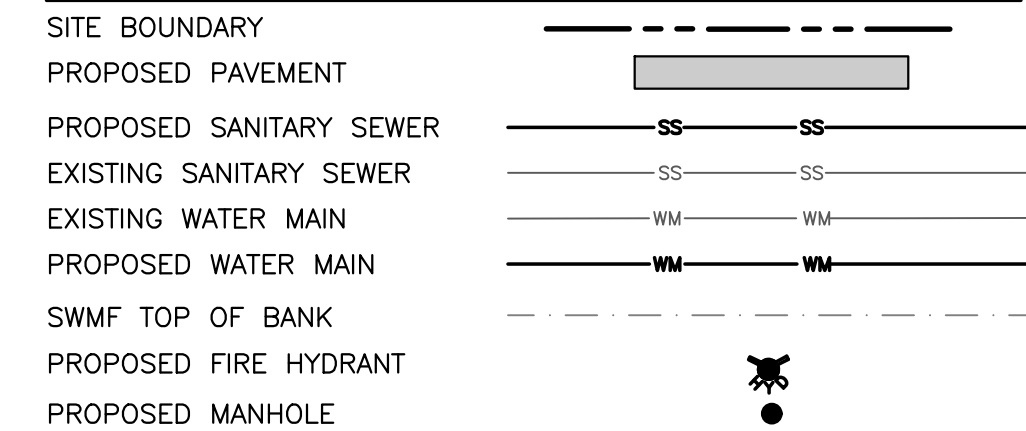




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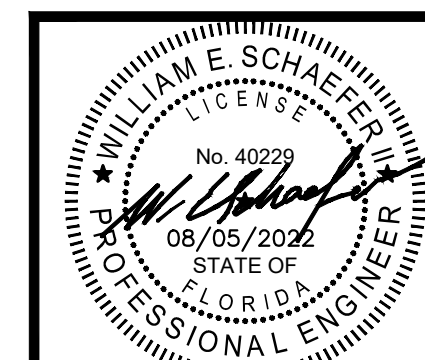
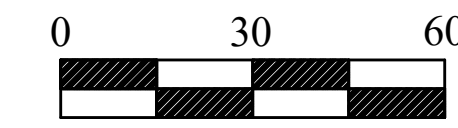
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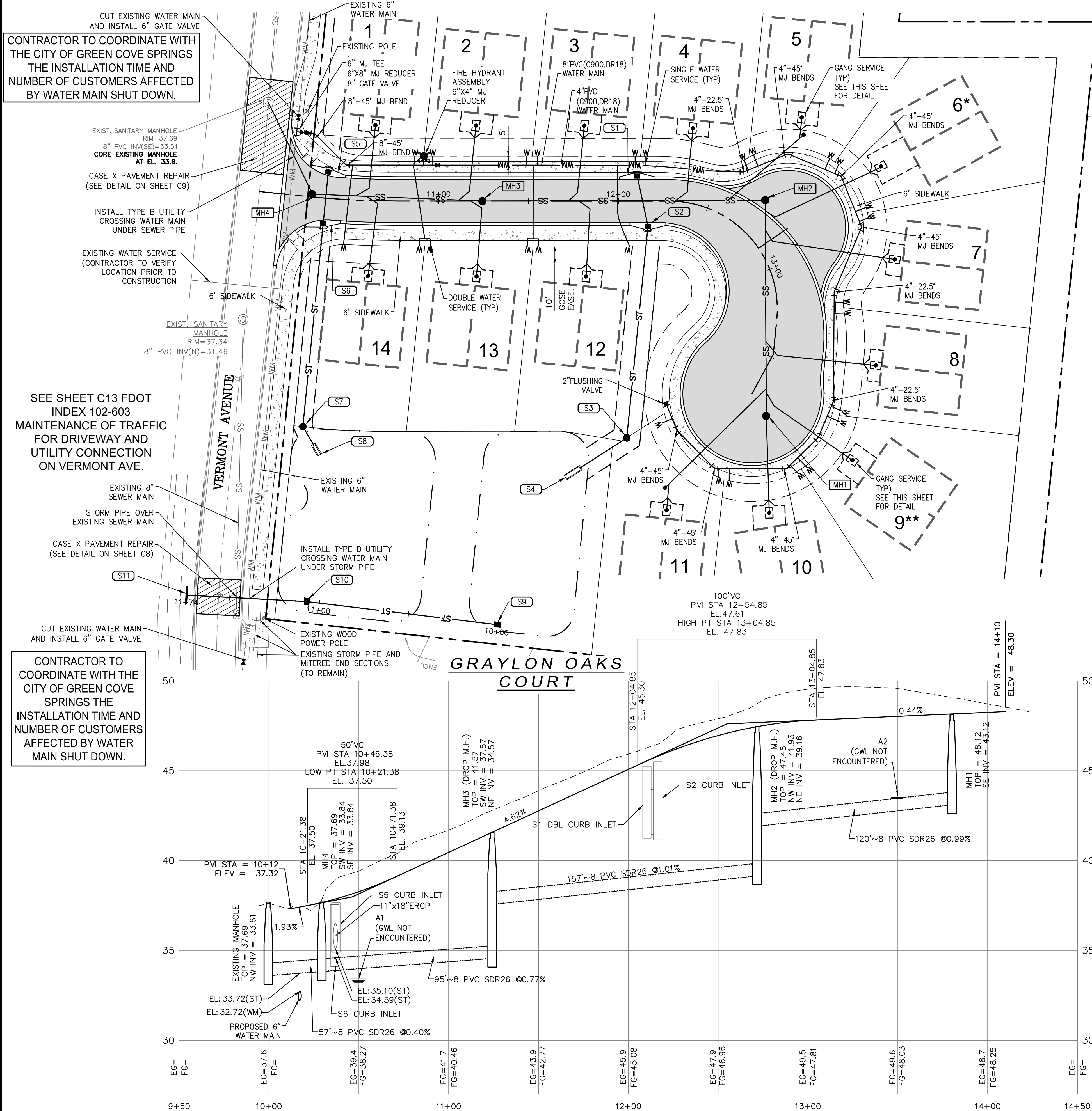


- NOTE:**
- SEE PLAN AND PROFILE SHEET C5 FOR UTILITY LABELS AND INFORMATION.
 - FIRE HYDRANTS SHOULD HAVE MIN. 3' CLEARANCE FROM EDGE OF PAVEMENT/BACK OF CURB. SEE DETAILS ON SHEET GW-1.
 - ALL IRRIGATION WATER SYSTEMS SHALL BE PRIVATELY OWNED AND OPERATED BY OTHERS.

REVISIONS

PLOT DATE:
 DRAWN BY: JMM
 DESIGNED BY: WES
 CHECKED BY: WES
 SCALE: AS NOTED
 JOB NO.:
 © LATEST DATE HEREON
 SHEET NO.
C4
 OF



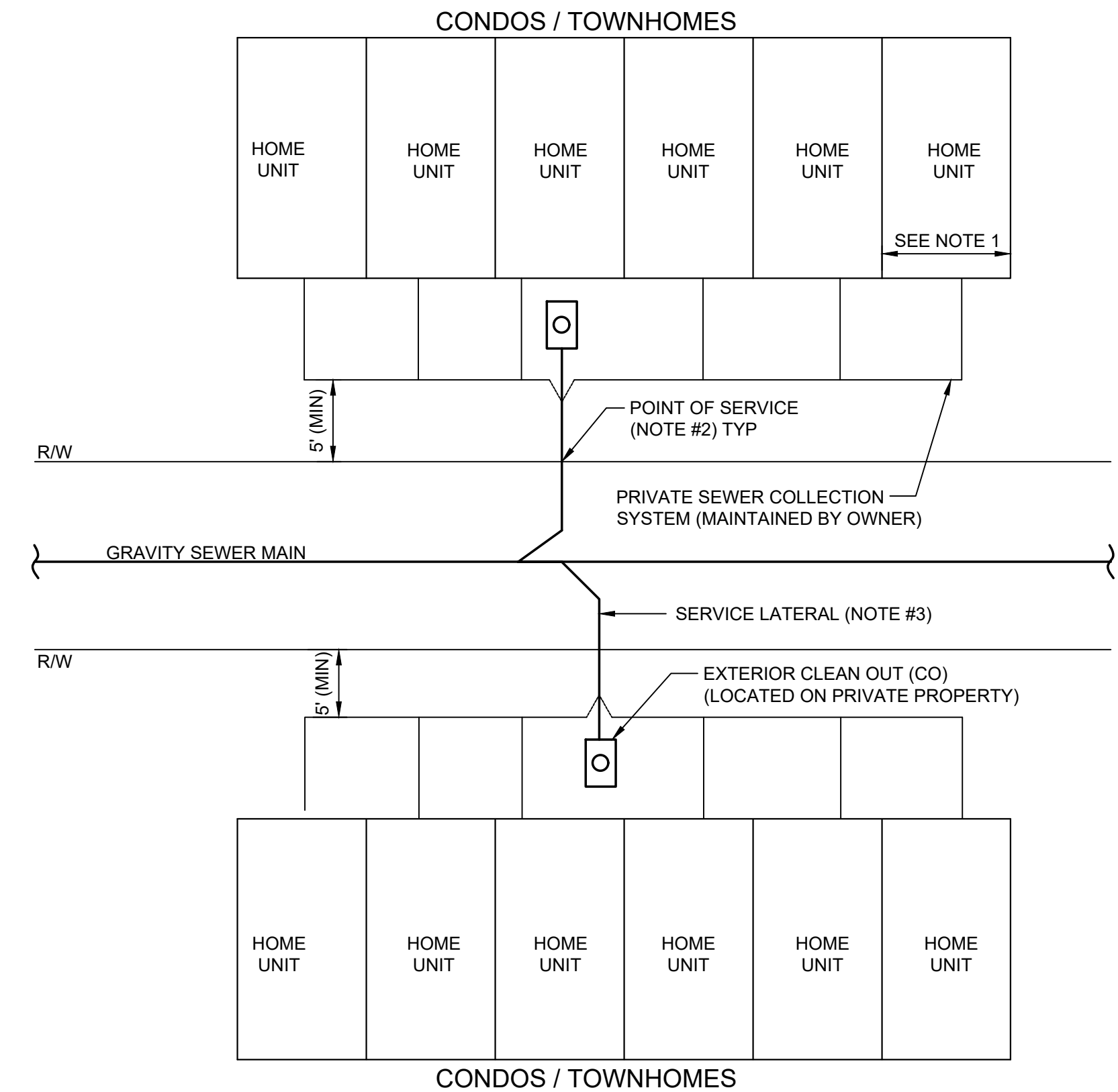


LEGEND

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

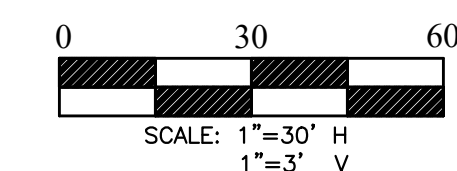
WATER AND SEWER NOTES

- 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



- 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



DOMINION ENGINEERING GROUP, INC.
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 www.dom-eng.com

GRAYLAN OAKS
 FOR
 GRAYLAN OAKS LAND TRUST
 PLAN AND PROFILE

REVISIONS

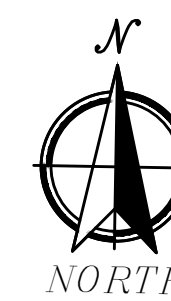
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 DRAWN BY: JMM
 DESIGNED BY: WES
 CHECKED BY: WES
 SCALE: AS NOTED
 JOB NO.:
 © LATEST DATE HEREON SHEET NO.
C5
 OF _____

ST JOHNS MOBILE HOME VILLAGE
PLAT BOOK 7, PAGE 32

OLIVE STREET

MES 12"X15" RCP
INV=35.22

MES 12"X15" RCP
INV=35.33



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)

INLET PROTECTION (TYP)
SEE SHT. C12 FOR DETAILS

GRAYLON OAKS COURT

STABILIZED CONSTRUCTION
ENTRANCE
(SEE DETAIL ON SHT C12)

PARK

115'~SILT FENCE

20' BUFFER

8

325'~SILT FENCE

7

3

2

4

6

5

380'~SILT FENCE

20' BUFFER

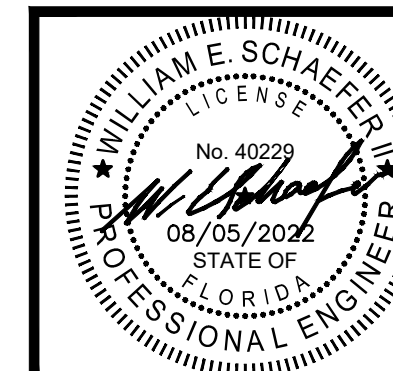
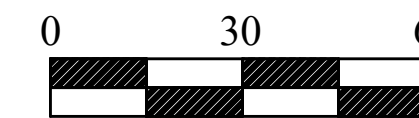
S20'00'00" E 166.00'(D)

S20'16'24" E 169.09'(M)

S20'01'00" E 169.09'(M)

S20'17'32" E 166.00'(N)

54'~W 256.37'(M)



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GRAYLON OAKS
FOR
GRAYLON OAKS LAND TRUST
EROSION CONTROL PLAN

REVISIONS

PLOT DATE:

DRAWN BY: JMM

DESIGNED BY: WES

CHECKED BY: WES

SCALE: AS NOTED

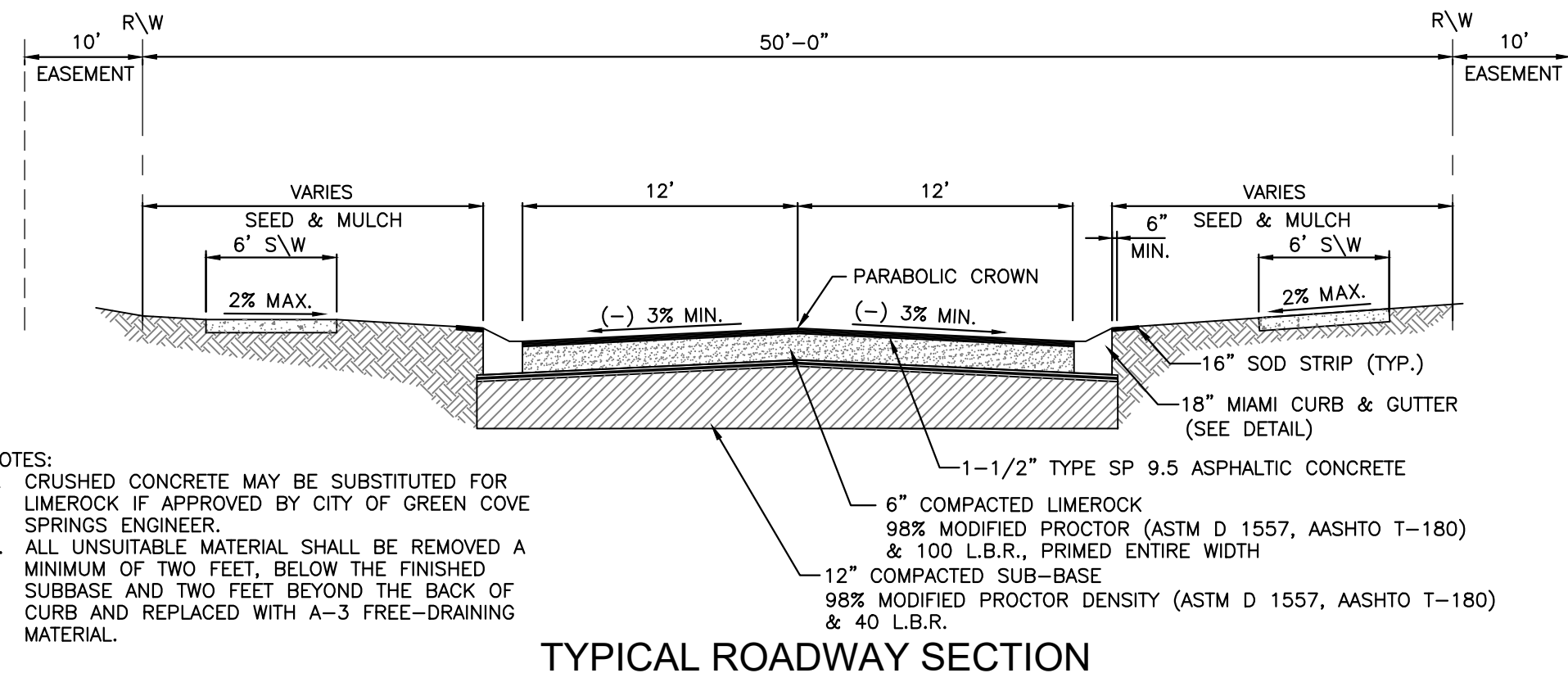
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© LATEST DATE HEREON

SHEET NO.

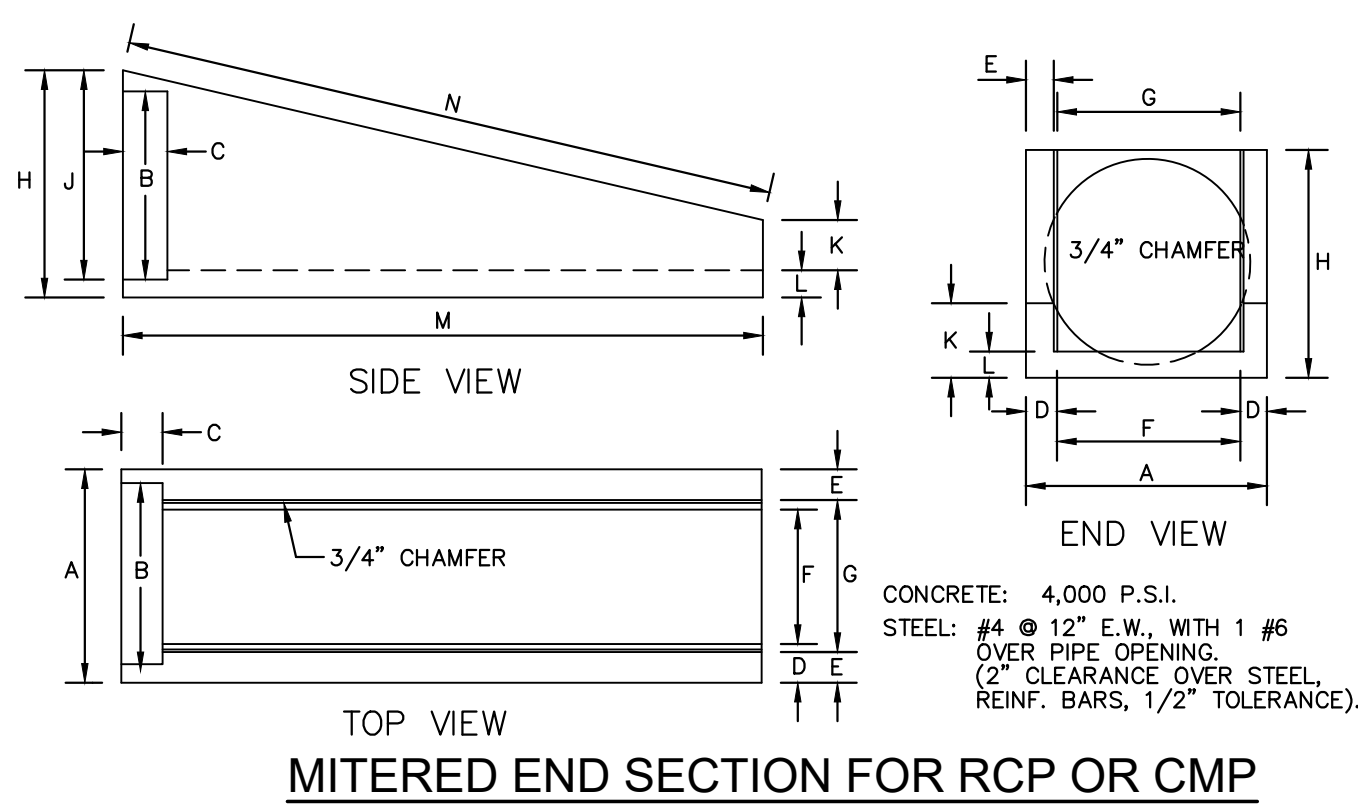
C6

OF



- NOTES:
- CRUSHED CONCRETE MAY BE SUBSTITUTED FOR LIMEROCK IF APPROVED BY CITY OF GREEN COVE SPRINGS ENGINEER.
 - ALL UNSUITABLE MATERIAL SHALL BE REMOVED A MINIMUM OF TWO FEET, BELOW THE FINISHED SUBBASE AND TWO FEET BEYOND THE BACK OF CURB AND REPLACED WITH A-3 FREE-DRAINING MATERIAL.

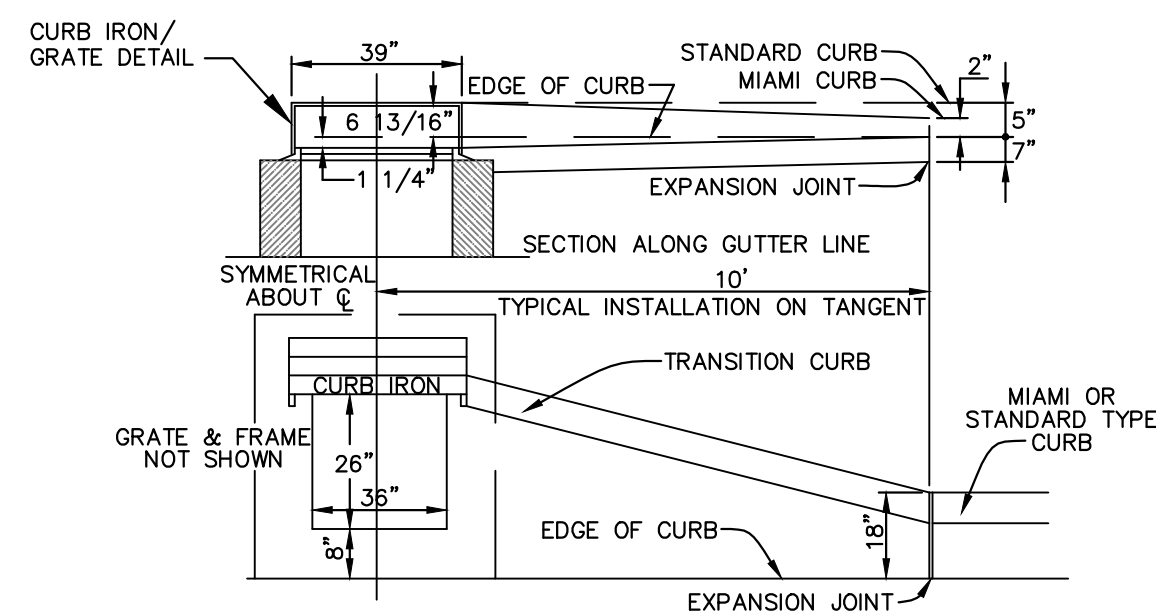
TYPICAL ROADWAY SECTION
N.T.S.



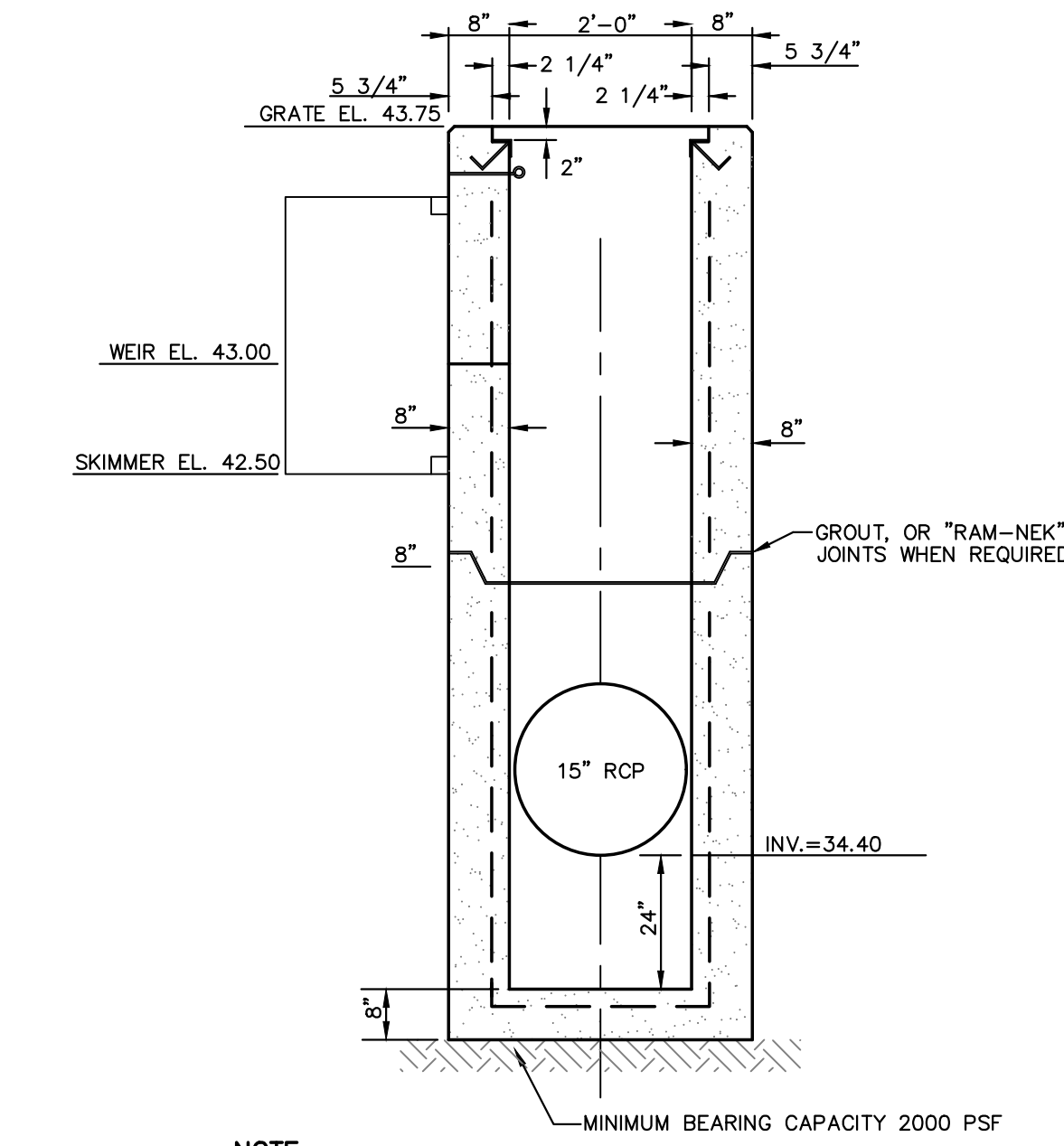
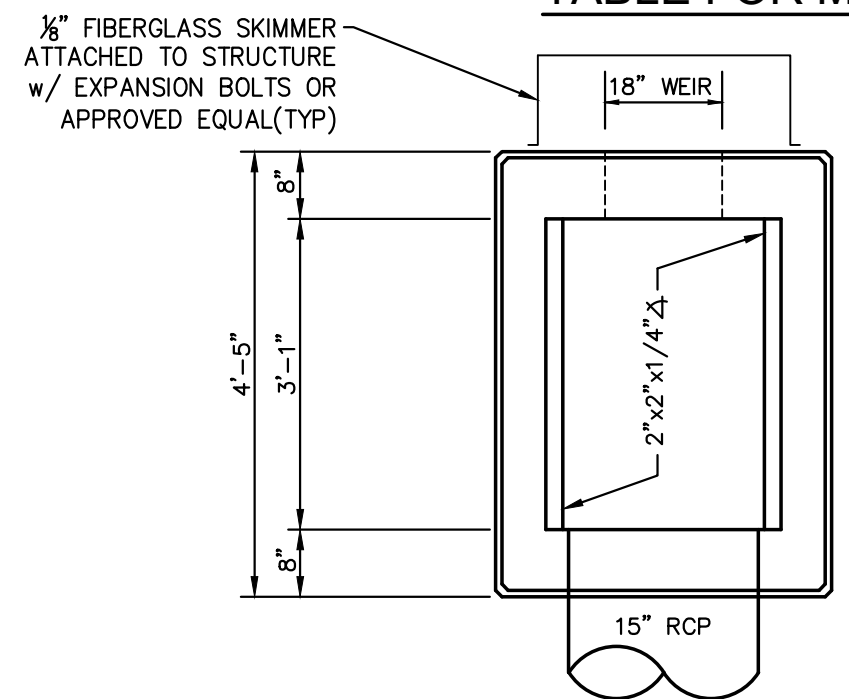
RCP/CMP	A	B	C	D	E	F	G
15" - 18"	2'-7"	2'-1"	8"	6"	6 3/4"	1'-6"	1'-7"
24"	2'-11"	2'-8"	6"	5"	4 1/2"	1'-11"	2'-10"
30"	3'-6"	3'-2"	6"	6"	5 1/2"	2'-5"	2'-6 1/2"
36"	4'-1"	3'-10"	6"	7"	5 1/2"	2'-9"	3'-0"

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.

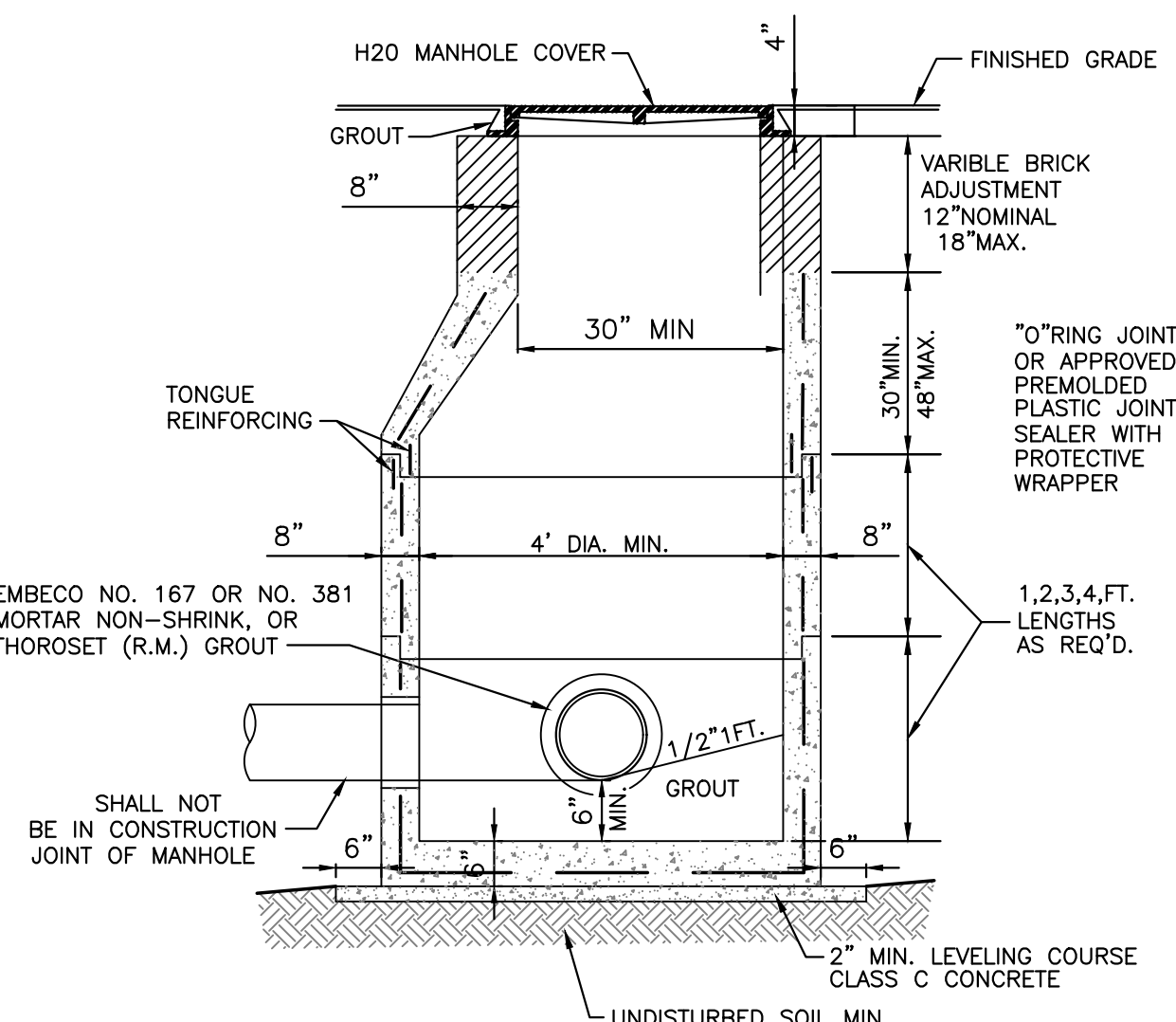


STANDARD CURB INLET INSTALLATION
N.T.S.



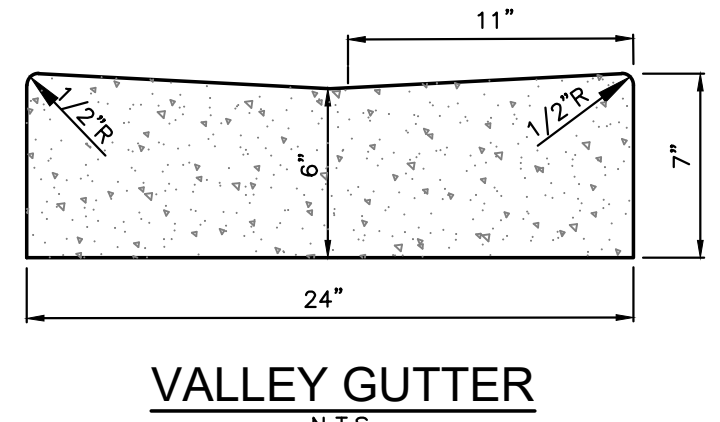
NOTE
INLETS WITH SLOTS GREATER THAN 6" SHALL BE CONSTRUCTED WITH HORIZONTAL BARS AT THE MAXIMUM VERTICAL SPACING OF 6-INCHES. 1" DIA. GALVANIZED PIPE IMBEDDED 2" IN PRECAST STRUCTURE OR OTHER APPROVED METHOD.

NOTE
INLETS WITH SLOTS GREATER THAN 6" SHALL BE CONSTRUCTED WITH HORIZONTAL BARS AT THE MAXIMUM VERTICAL SPACING OF 6-INCHES. 1" DIA. GALVANIZED PIPE IMBEDDED 2" IN PRECAST STRUCTURE OR OTHER APPROVED METHOD.

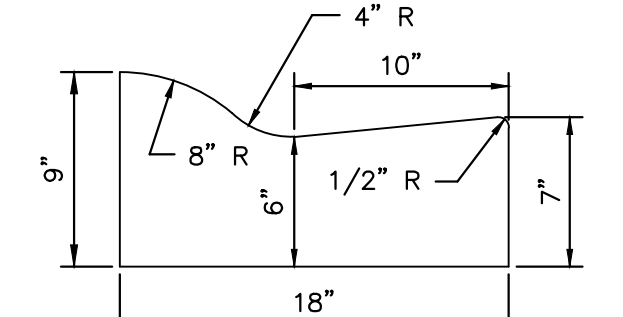


- NOTES:
- PRECAST MANHOLE SECTIONS TO BE MFRD. IN ACCORDANCE WITH LATEST EDITIONS OF ASTM C478 WITH 4000 LB. CONCRETE, TYPE II CEMENT.

STORM WATER MANHOLE
N.T.S.



VALLEY GUTTER
N.T.S.



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

MIAMI TYPE CURB & GUTTER
N.T.S.

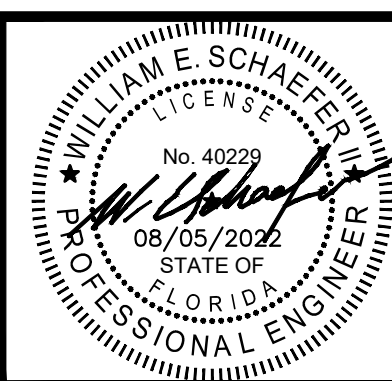
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REVISIONS

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DESIGNED BY: WES
CHECKED BY: WES
SCALE: AS NOTED
JOB NO.:
© LATEST DATE HEREON SHEET NO.
C7
OF

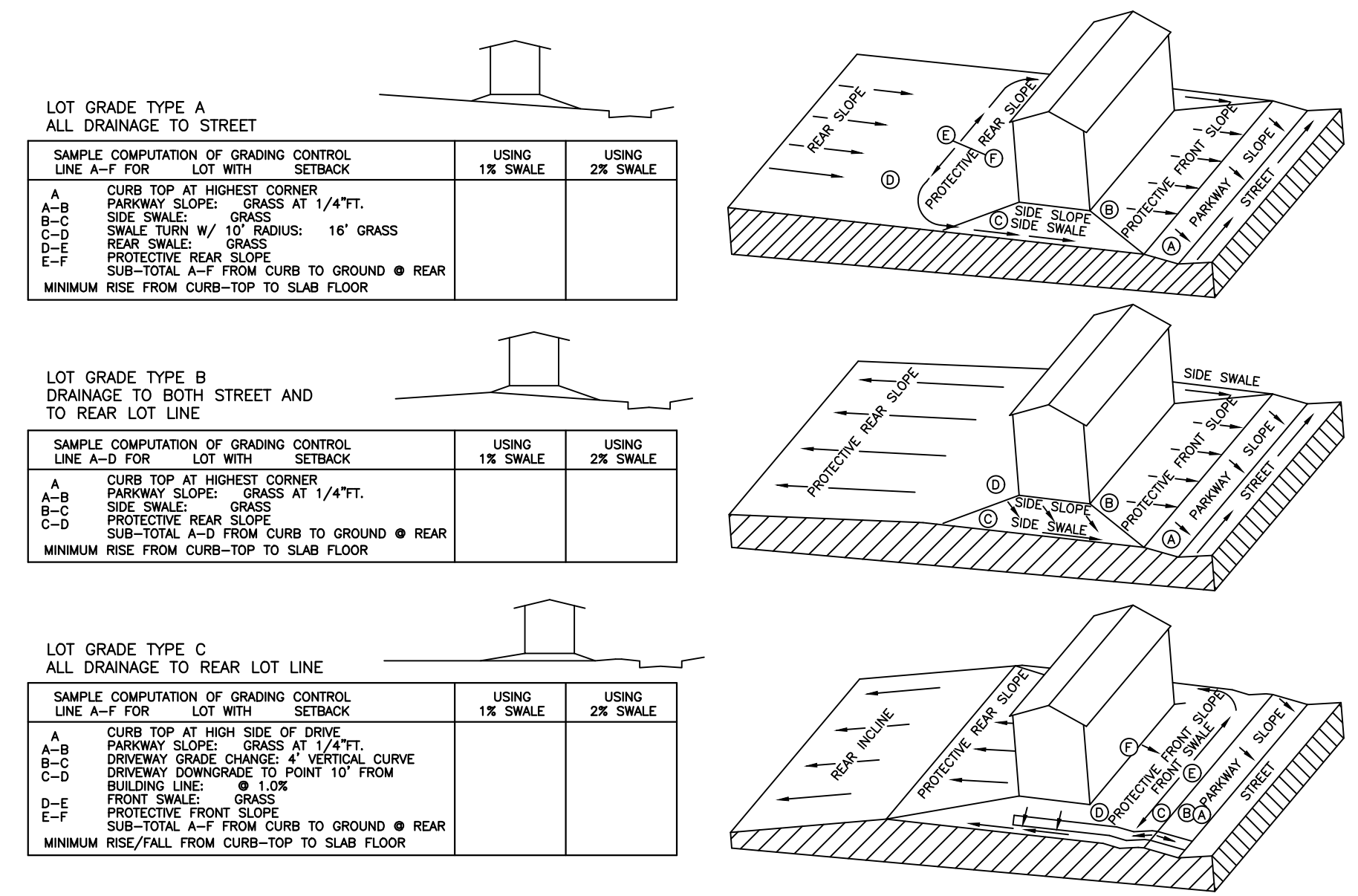


GENERAL NOTES:

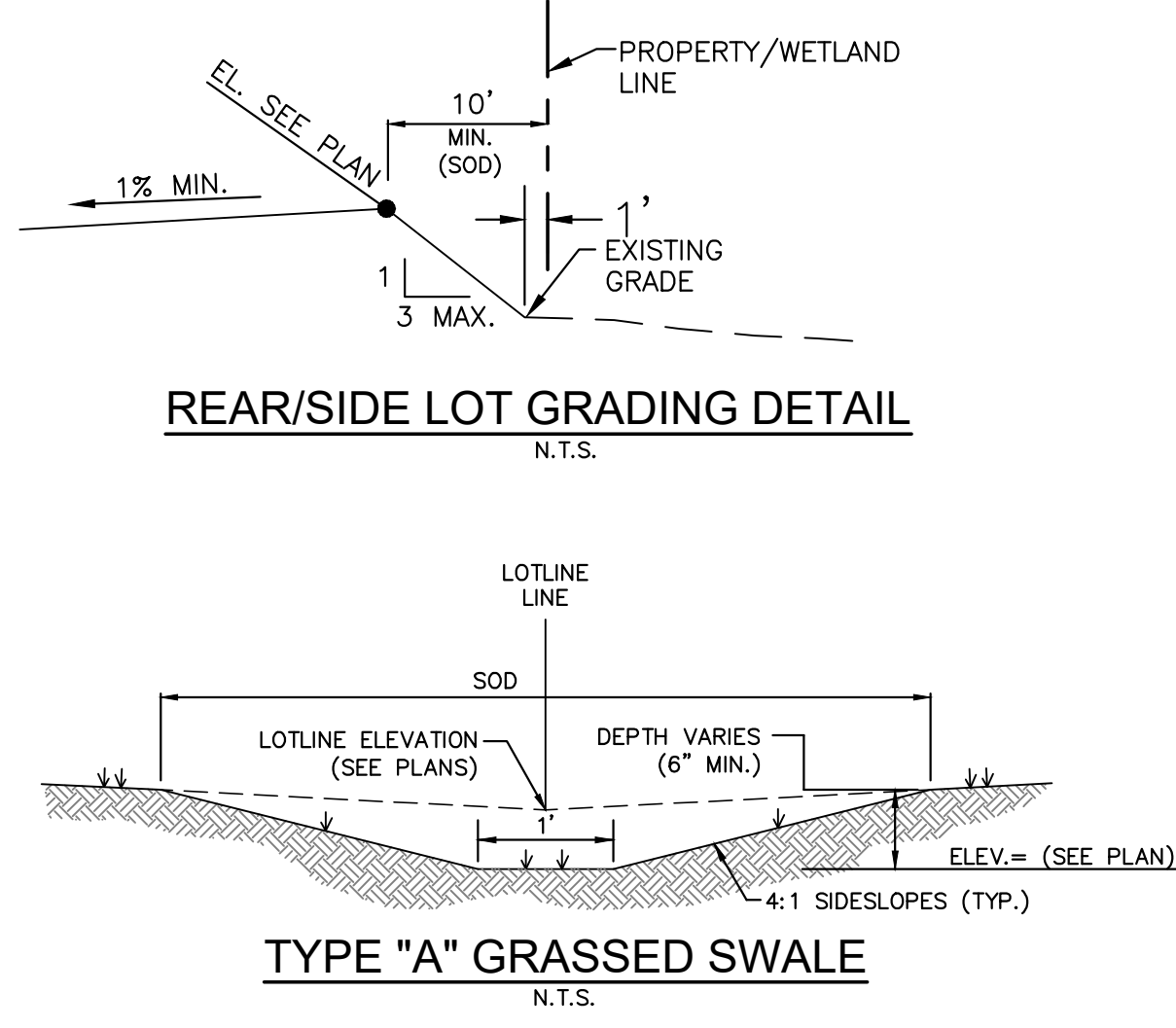
- ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF COUNTY STANDARDS, (LATEST REVISION) AND ALL CURRENT COUNTY STANDARD DETAILS AS WELL AS ALL APPLICABLE STATE AND LOCAL REGULATIONS. THE WORK SHALL ALSO BE PERFORMED AND TESTED IN ACCORDANCE WITH THE RECOMMENDATIONS 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.

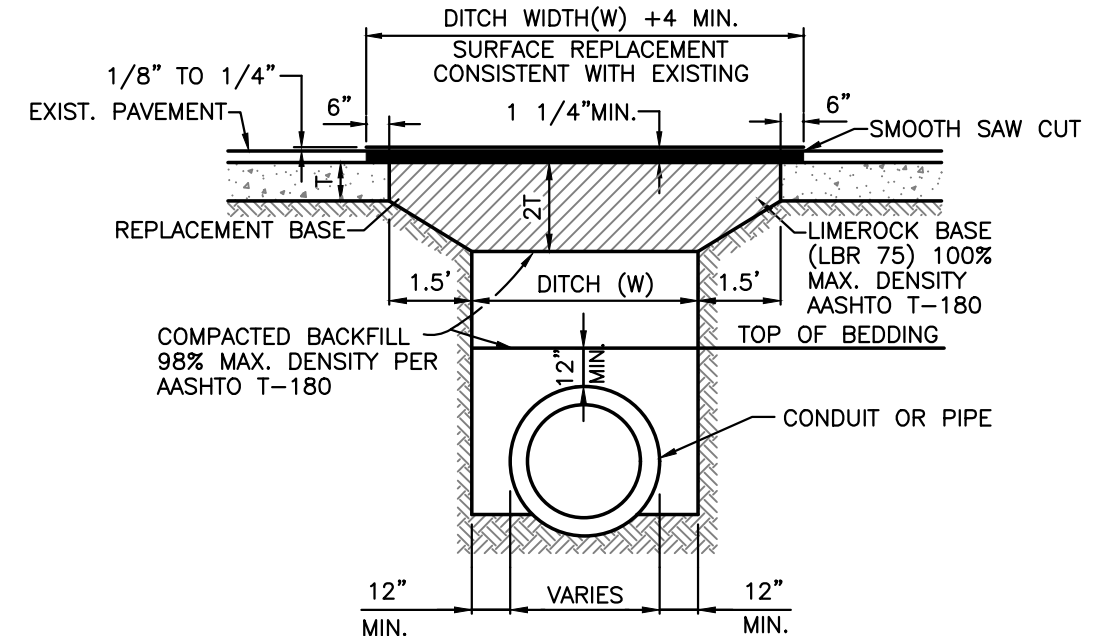


LOT GRADING PLAN
N.T.S.



REAR/SIDE LOT GRADING DETAIL
N.T.S.

TYPE "A" GRASSED SWALE
N.T.S.



NOTE: 1. 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.
2. IN SOME CASES PORTLAND CEMENT CONCRETE MAY BE CONSIDERED OR REQUIRED BY CITY ENGINEER FOR SURFACE REPLACEMENT.

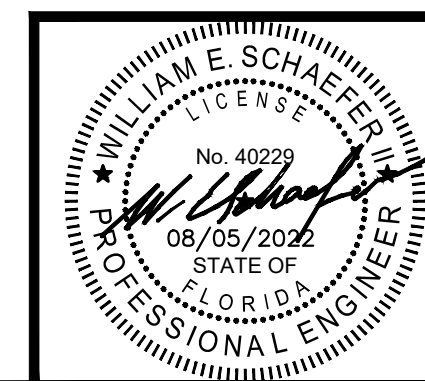
CASE X PAVEMENT REPAIR
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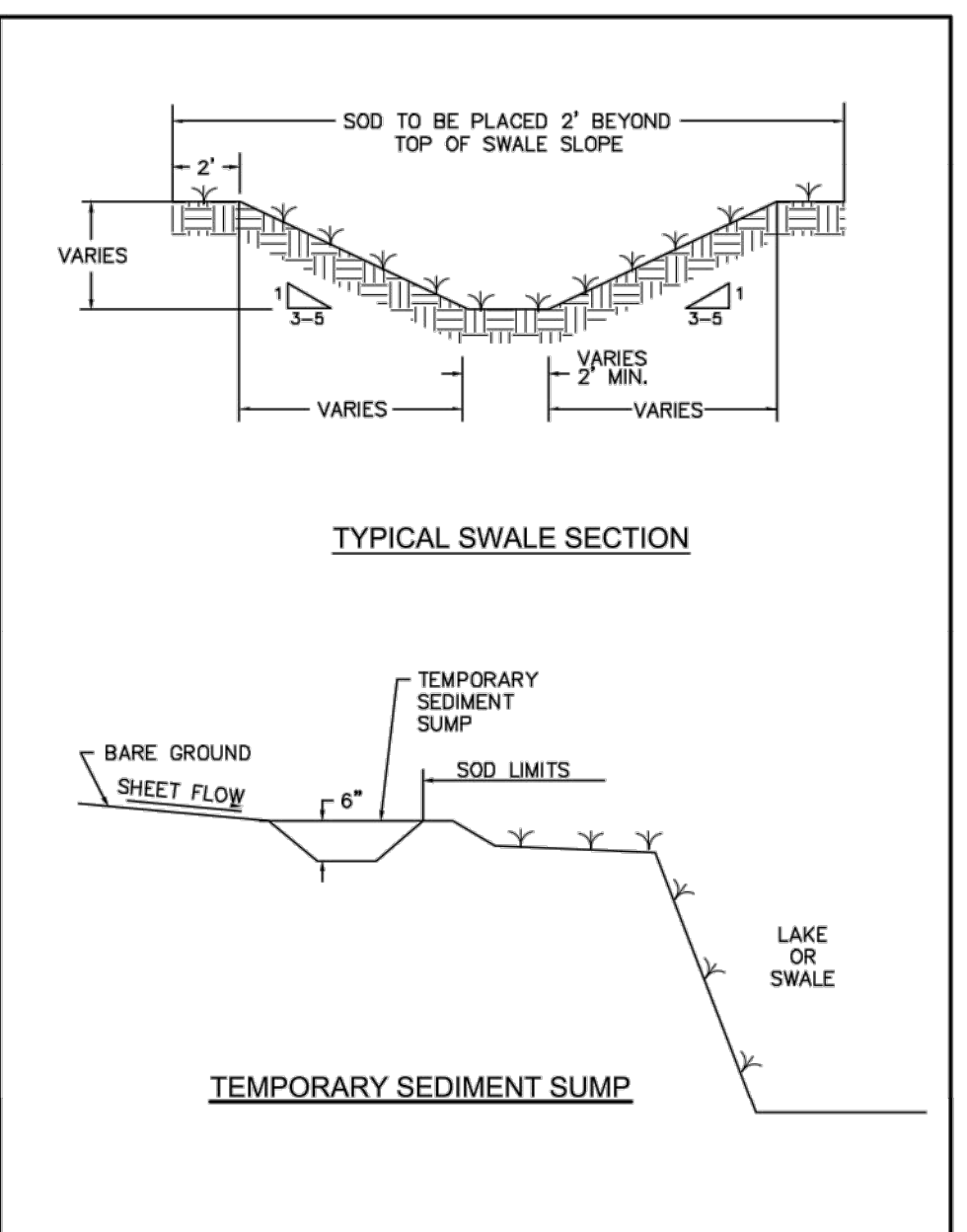
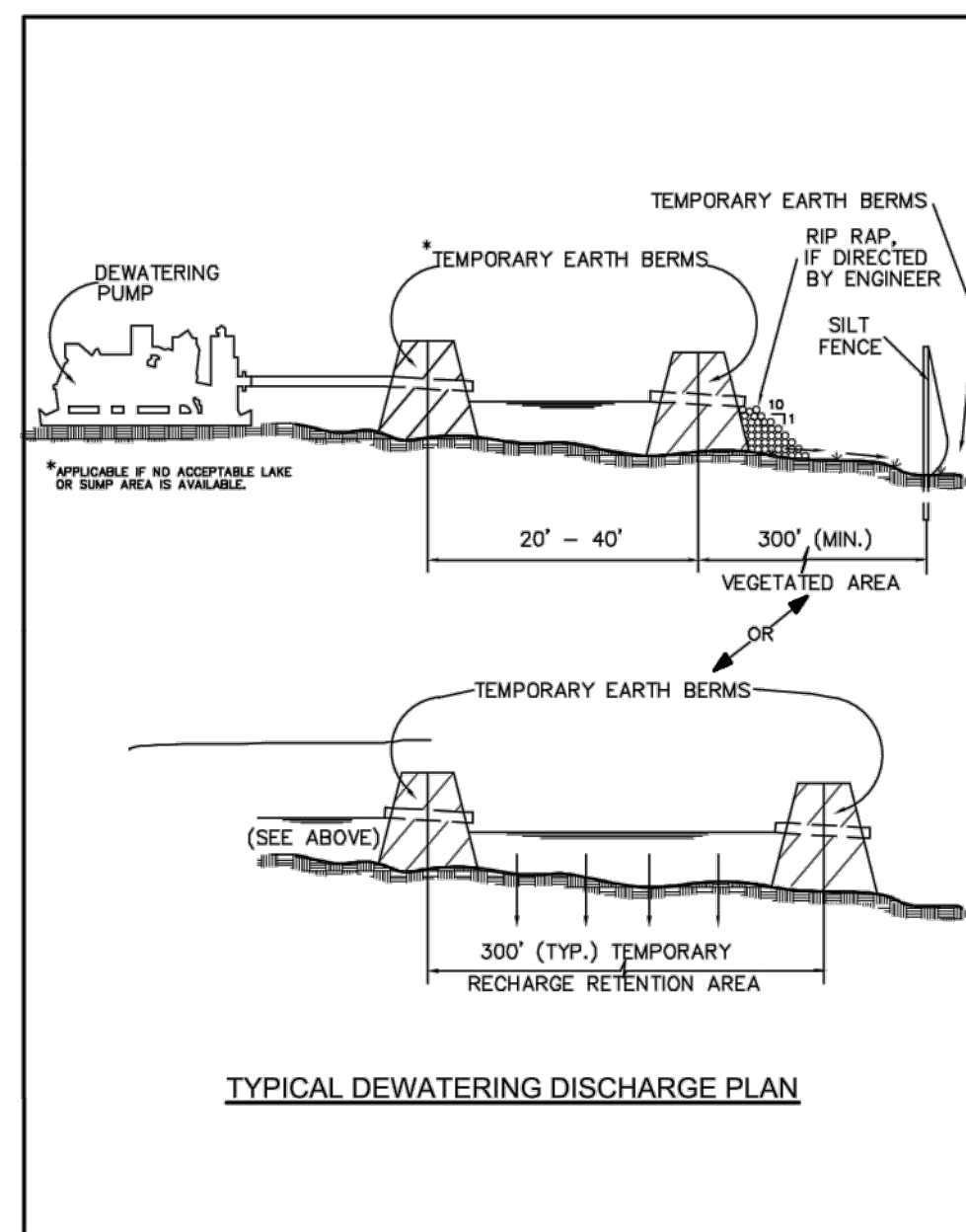
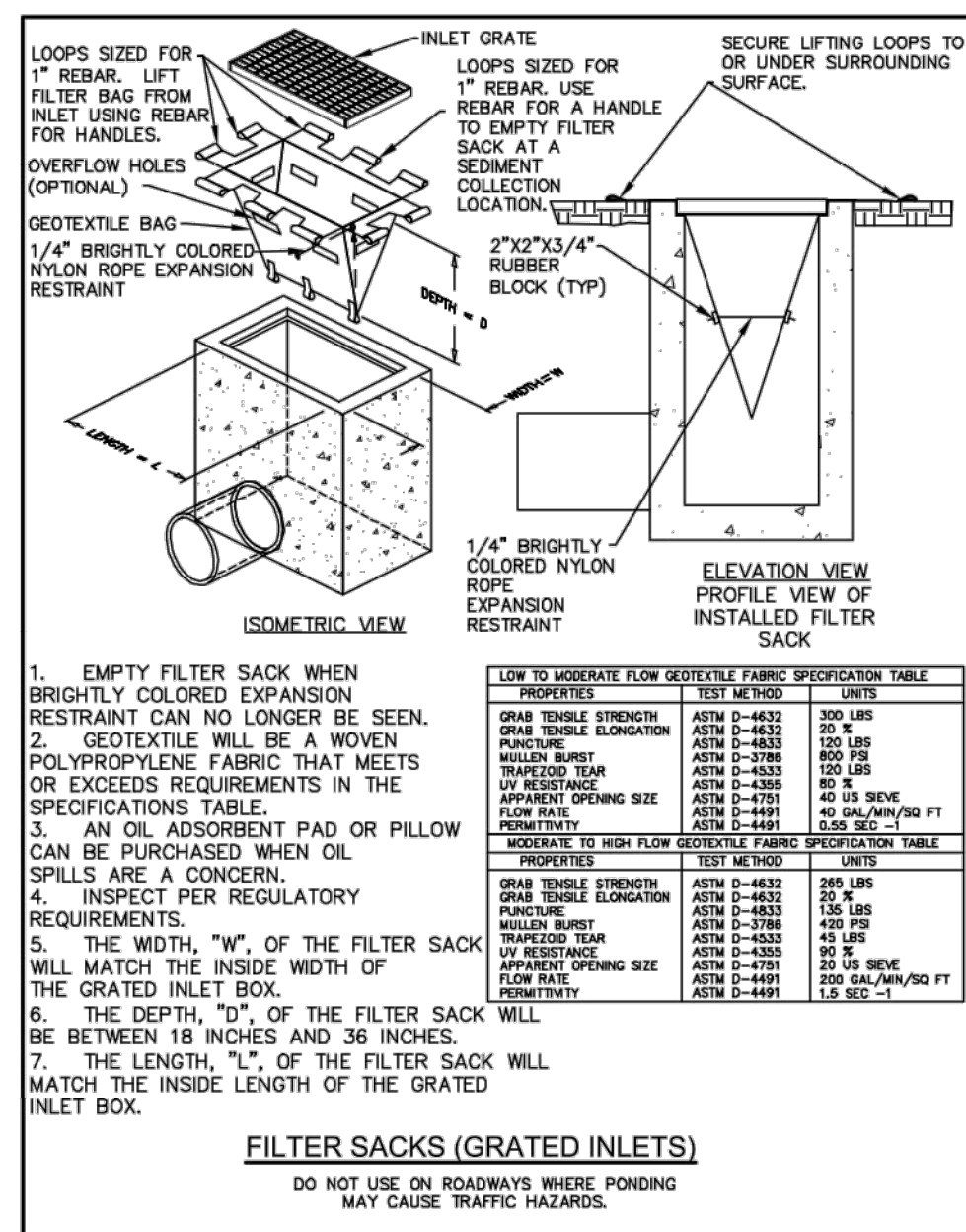
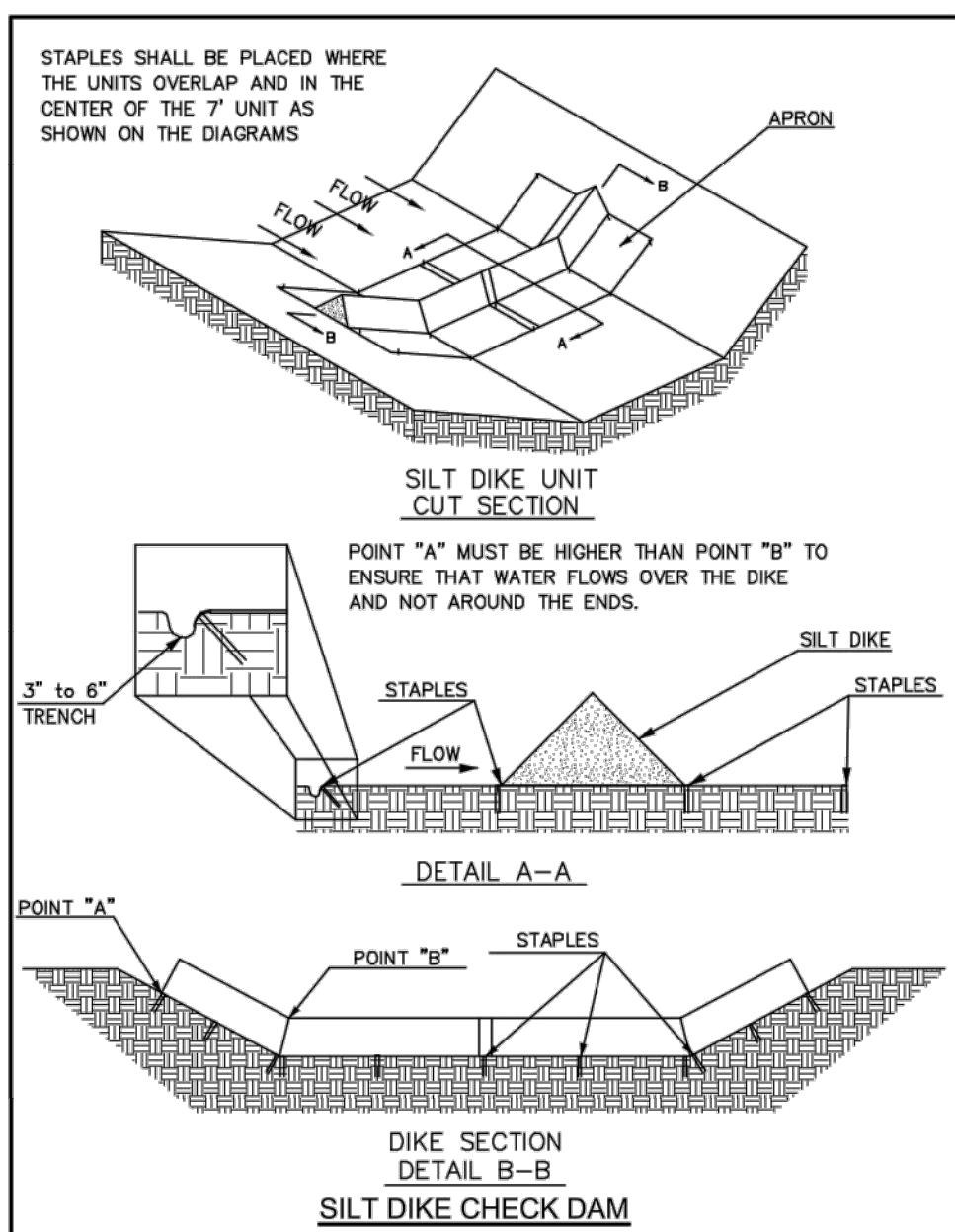
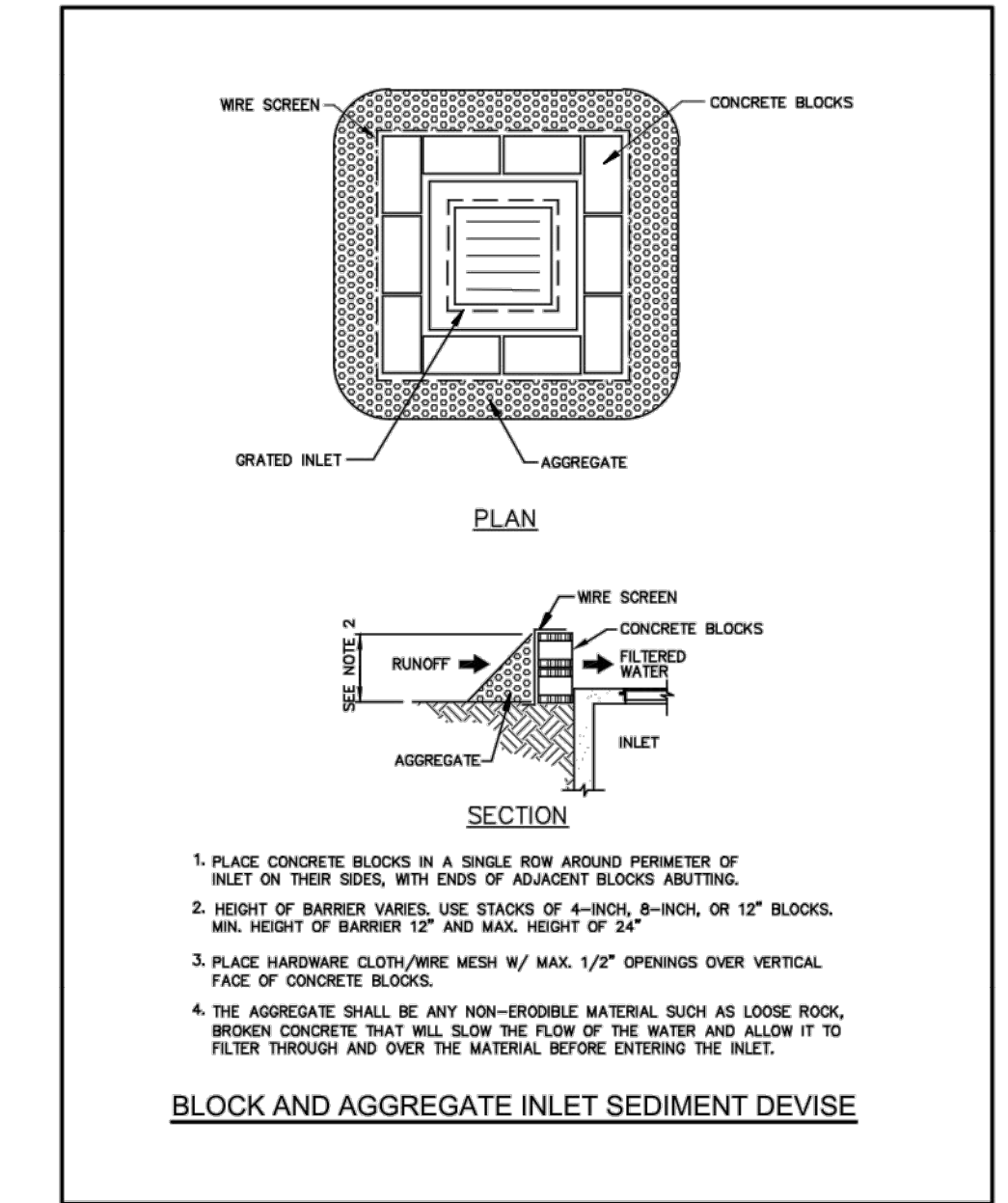
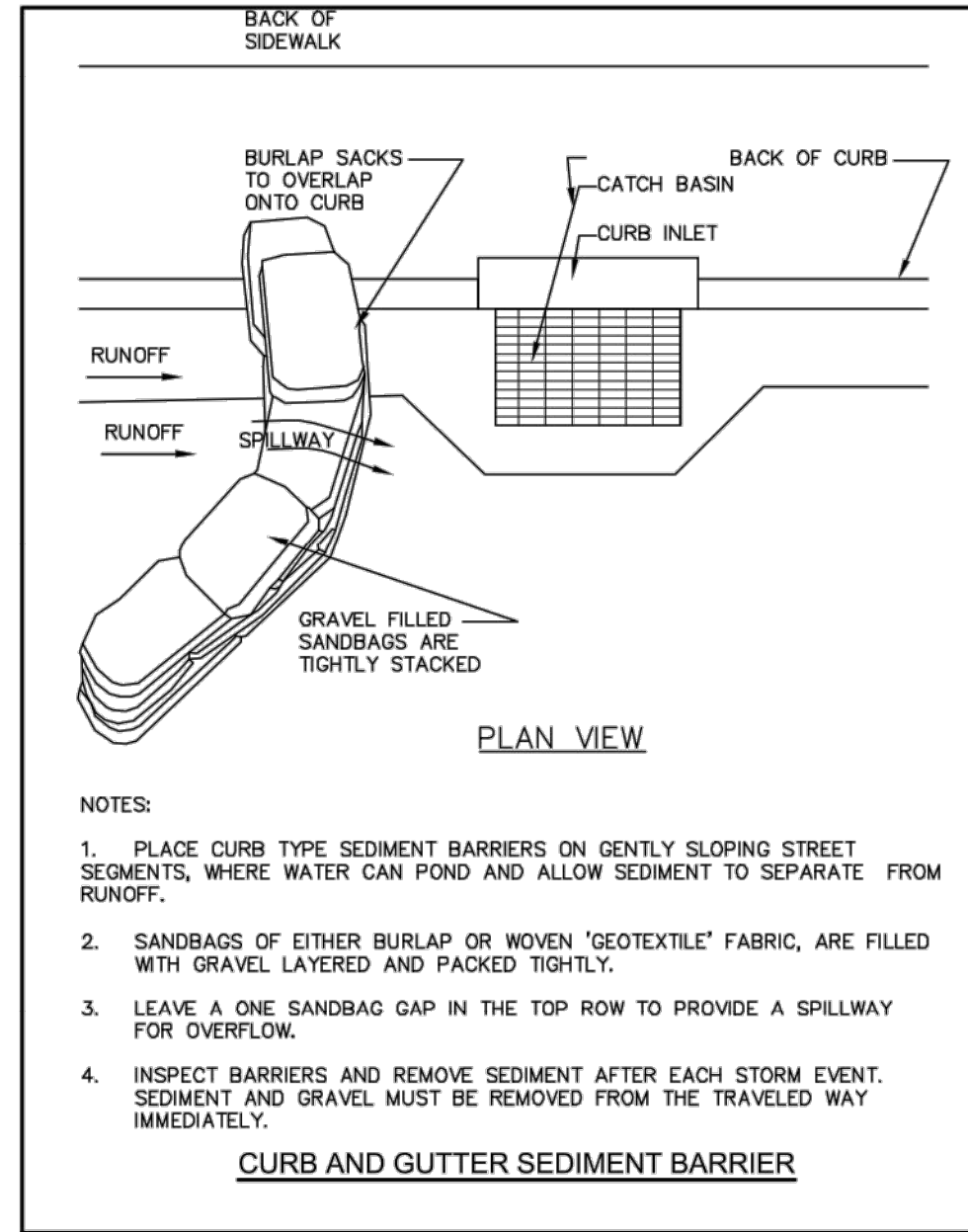
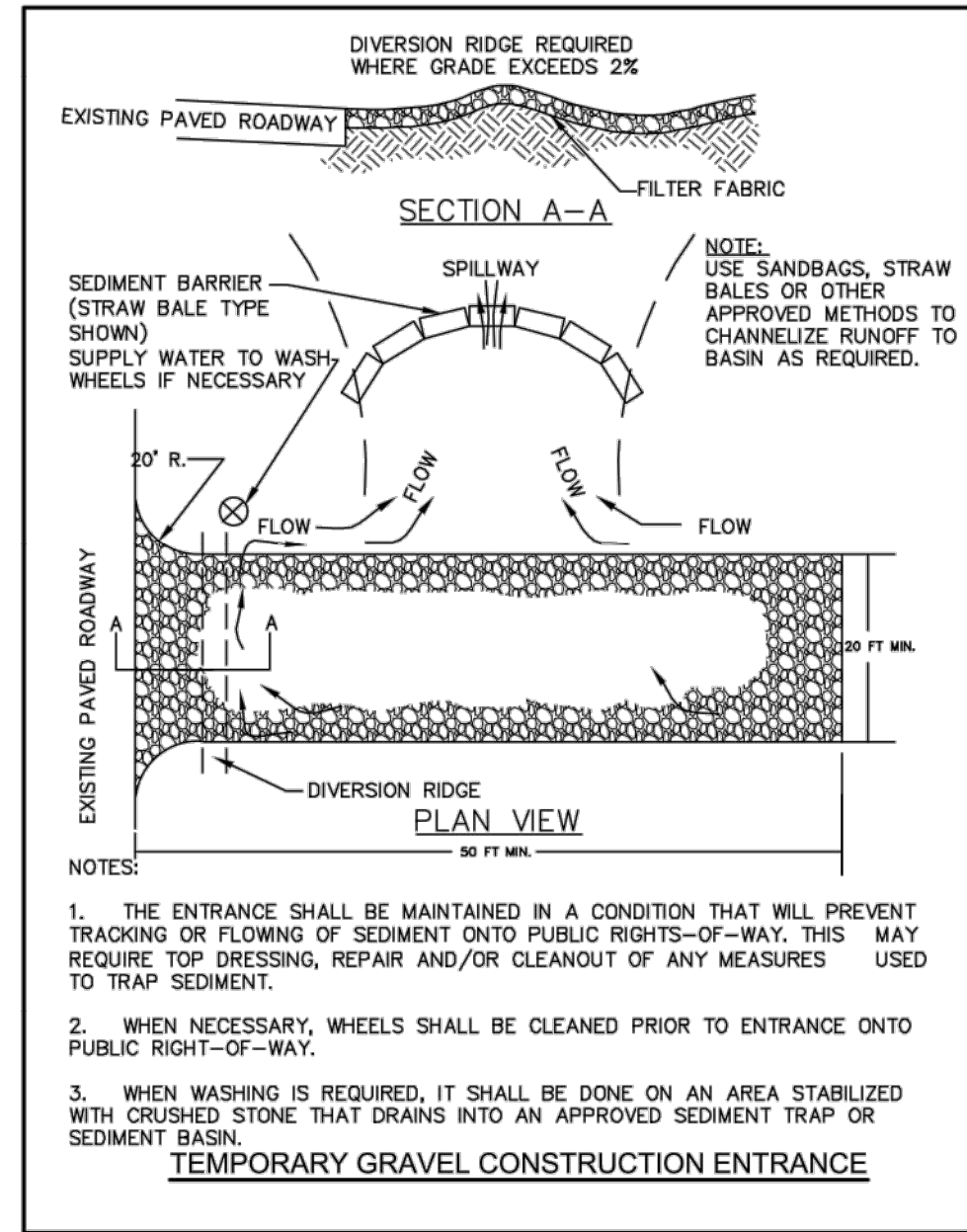
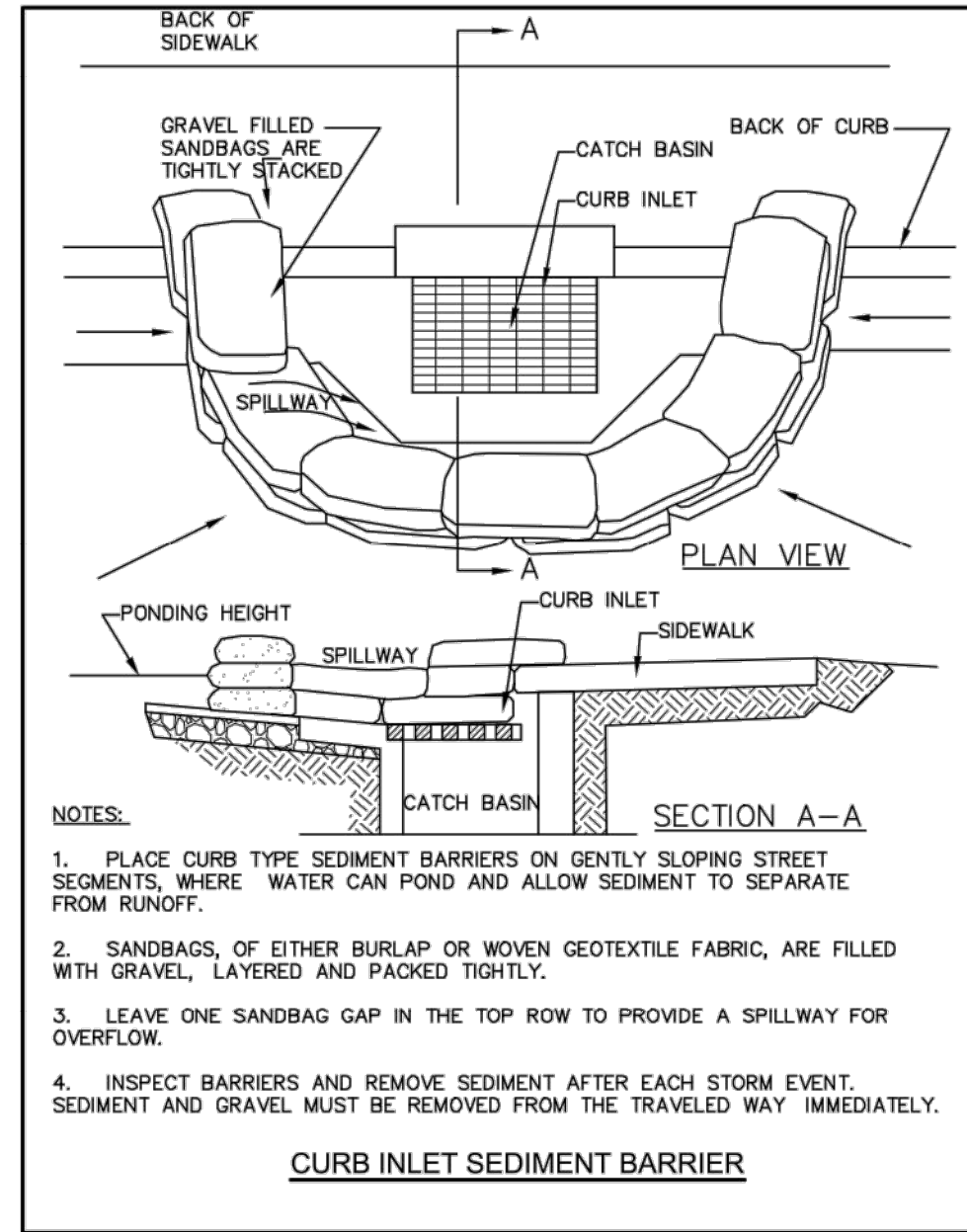
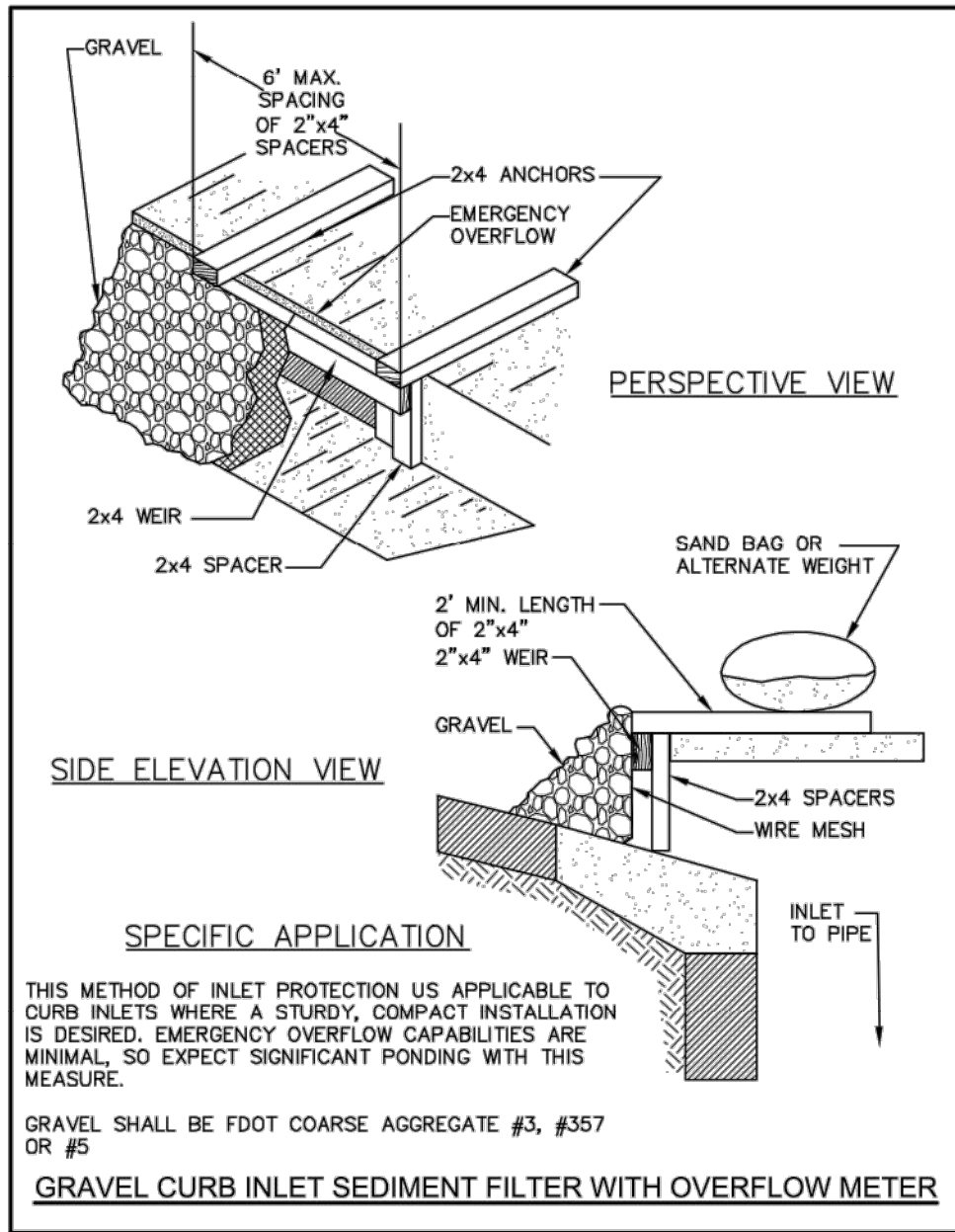
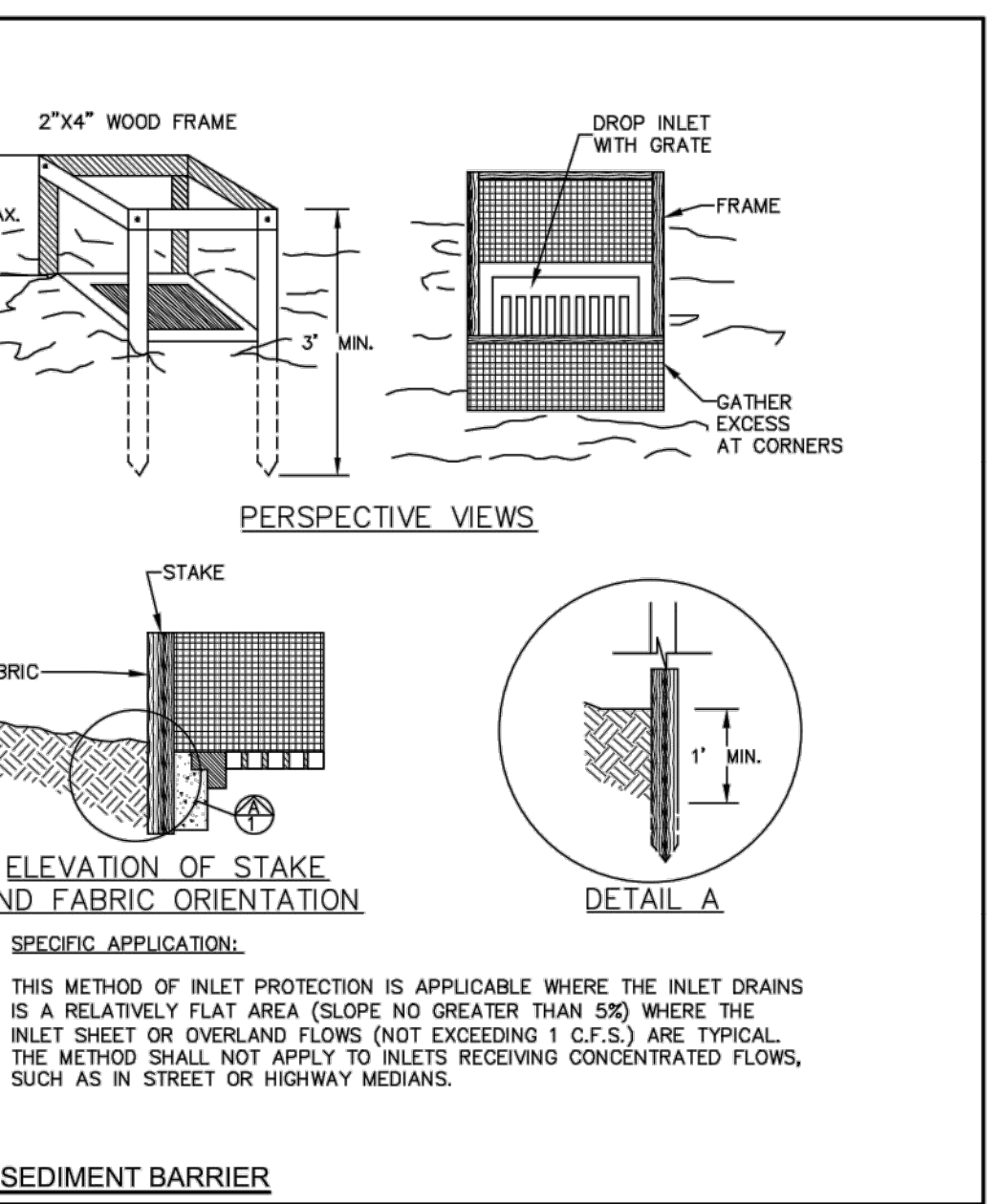
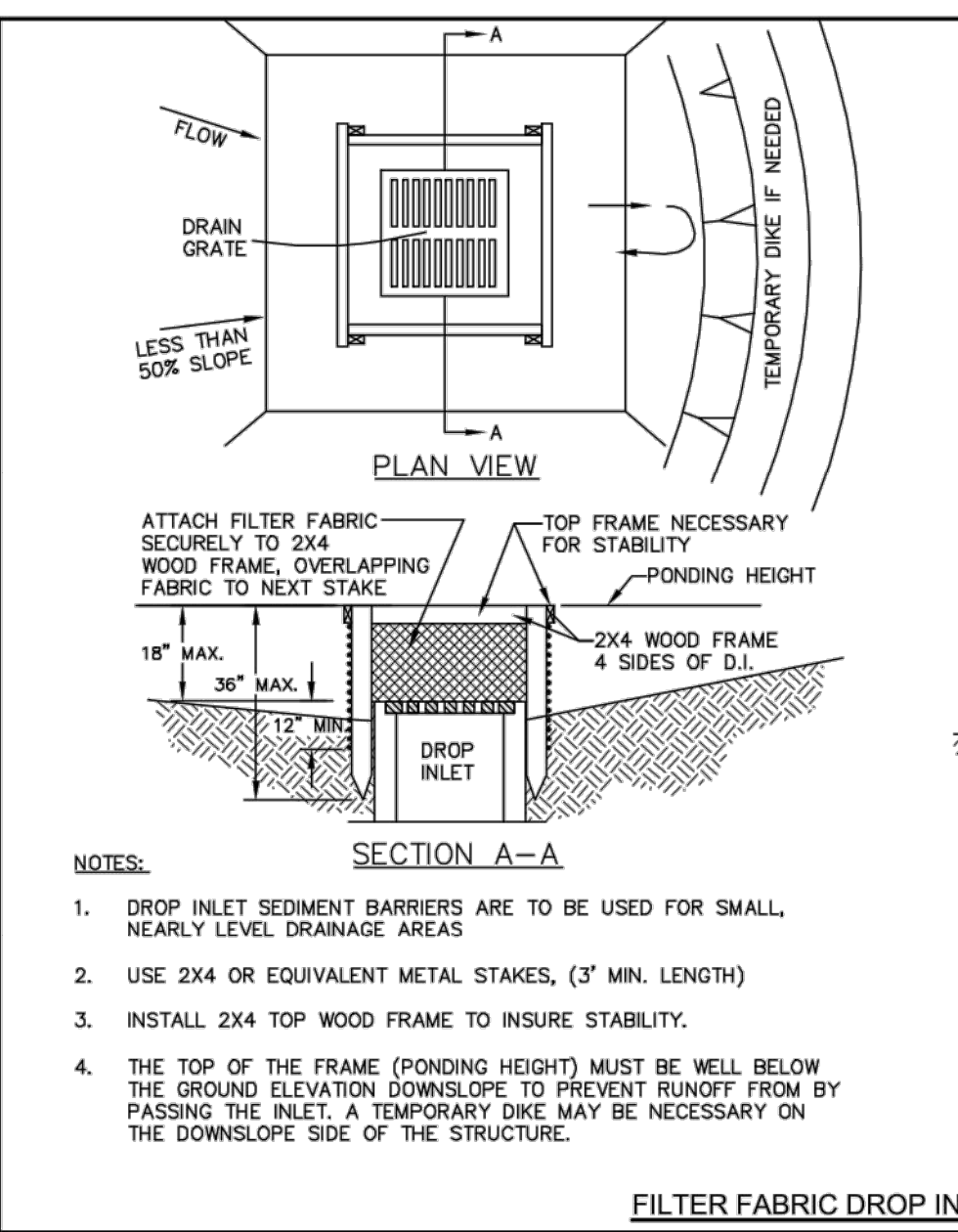
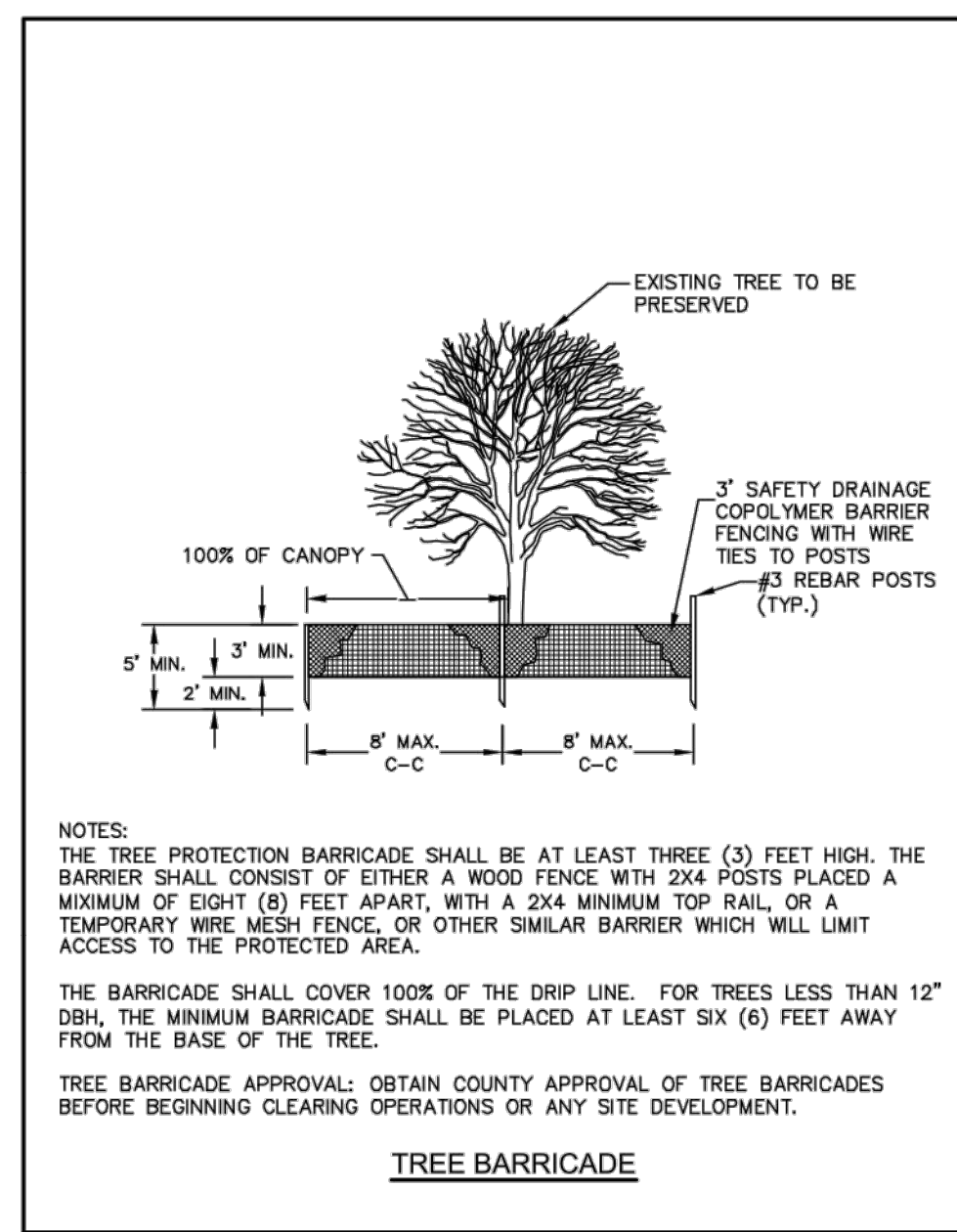
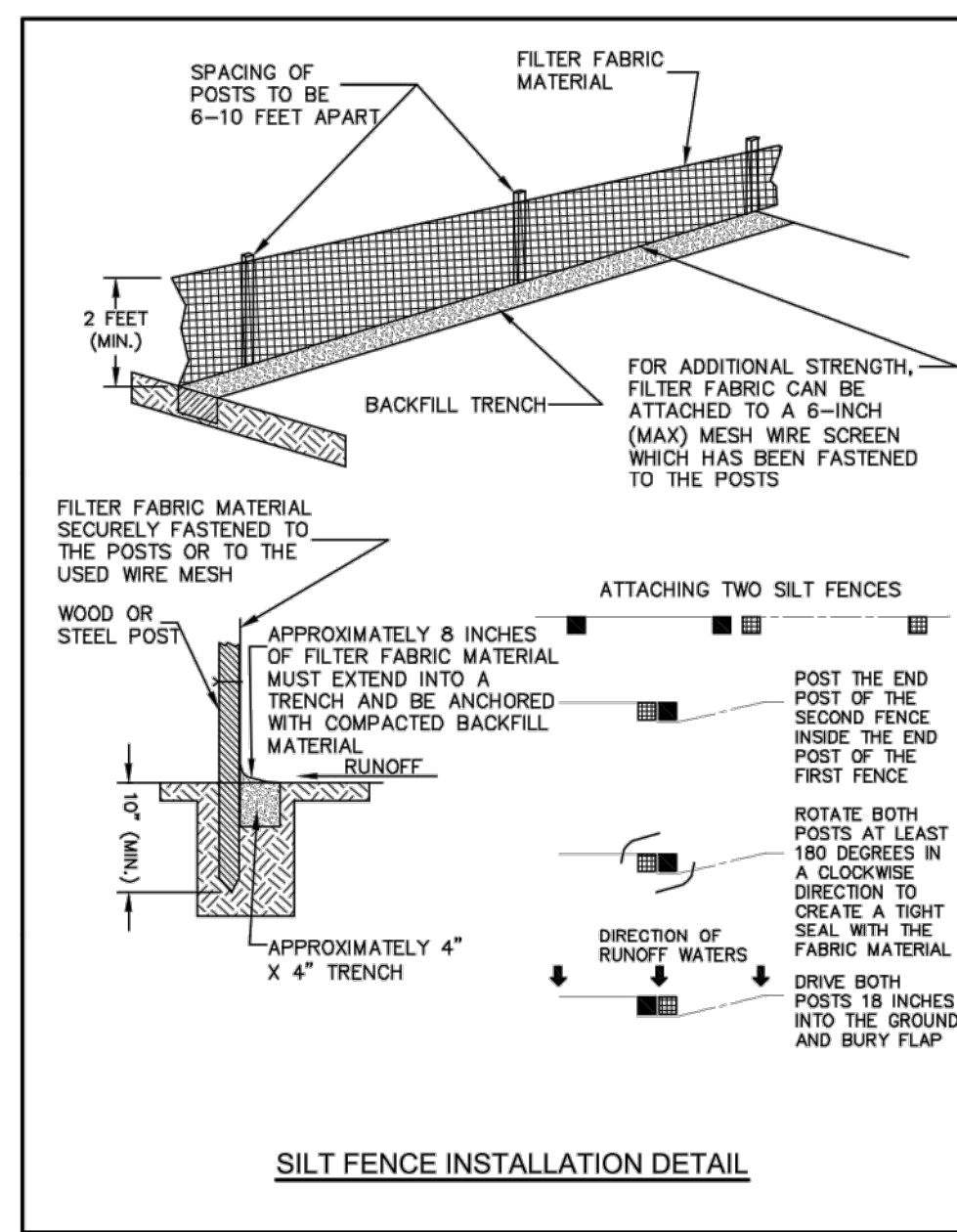
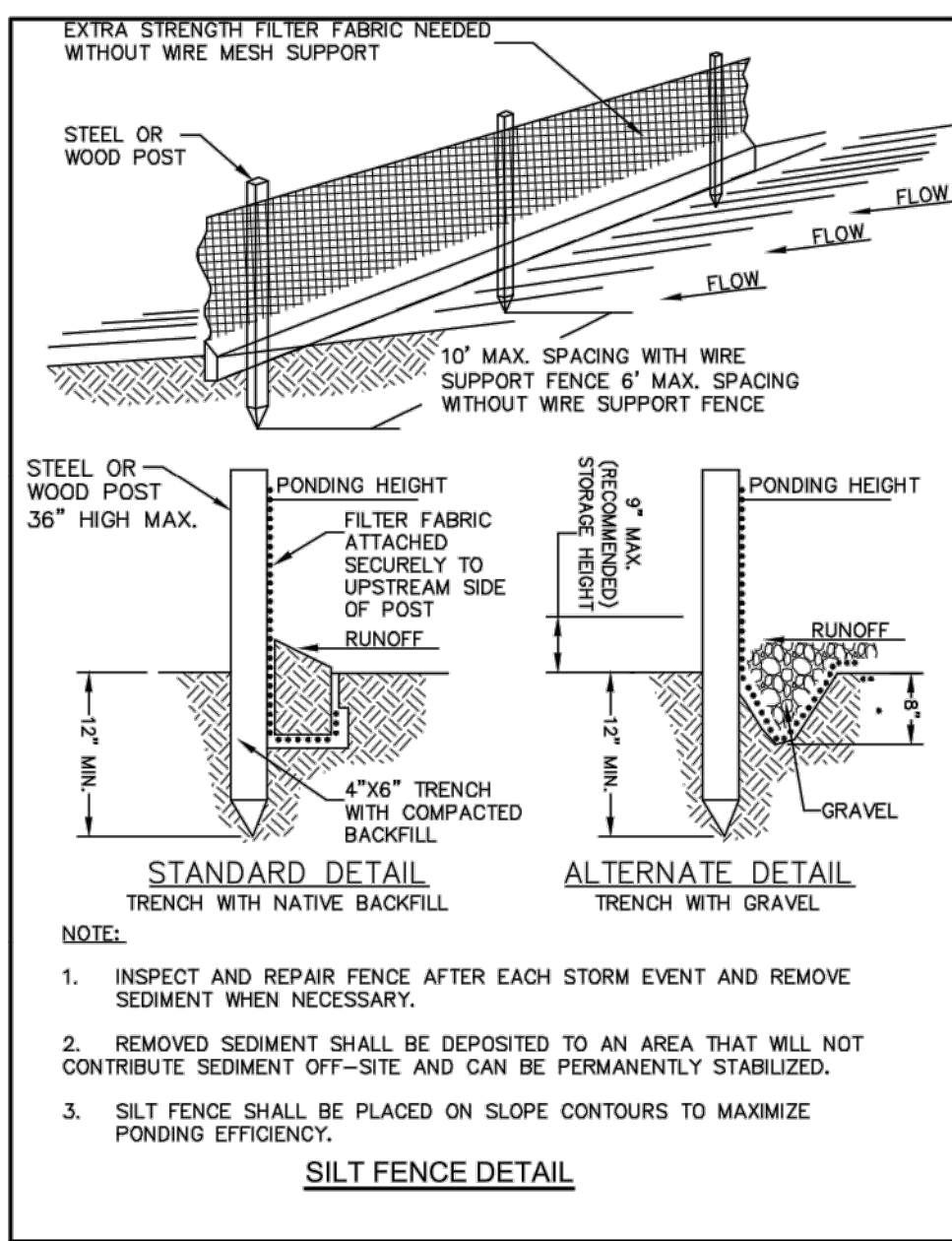
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FOR
GRAYLON OAKS LAND TRUST
GENERAL NOTES AND DETAILS

REVISIONS

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SCALE: AS NOTED
JOB NO.:
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OF





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

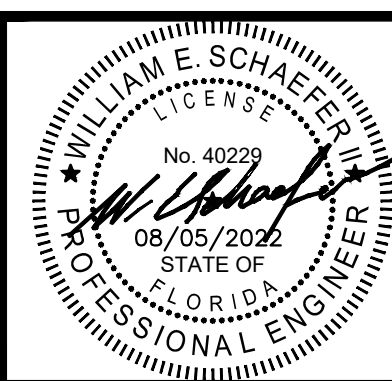
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OF



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: _____

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: _____

PROJECT:

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM

SEDIMENT BASIN

DEPTH OF SEDIMENT IN BASIN	DEPTH OF SEDIMENT SIDE BASIN	ANY EVIDENCE OF OVERTOPPING OF THE EMBANKMENT ?	CONDITION OF OUTFALL FROM SEDIMENT BASIN

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: _____

PROJECT:

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM

CHANGES REQUIRED TO THE POLLUTION PREVENTION PLAN:

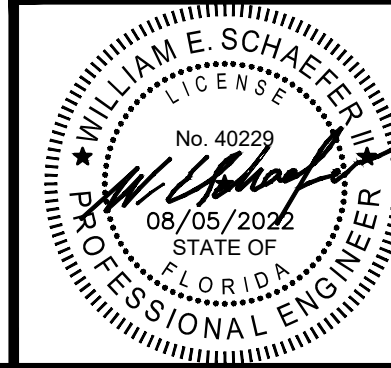
REASONS FOR CHANGES:

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: _____

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.



REVISIONS	

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

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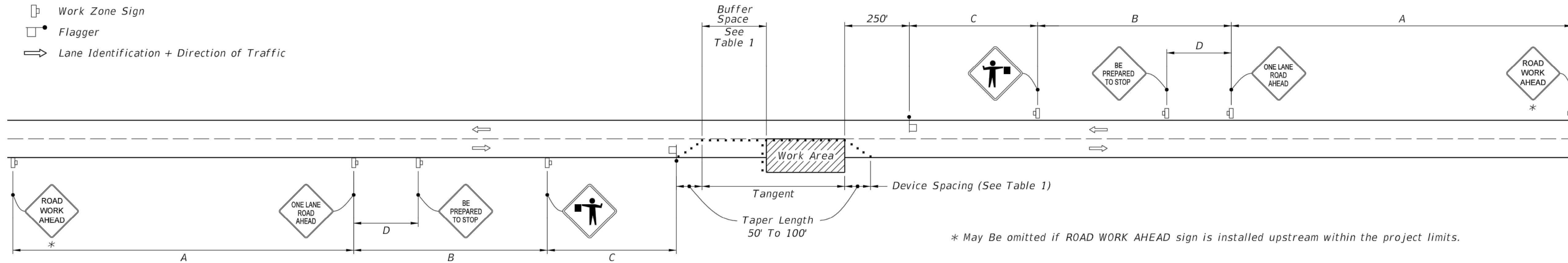
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GRAYLON OAKS
FOR
GRAYLON OAKS LAND TRUST
SWPPP-CONTRACTOR'S CERTIFICATION

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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 ENCR OACH THE AREA BETWEEN THE CENTERLINE AND A LINE 2' OUTSIDE THE EDGE OF TRAVEL WAY.

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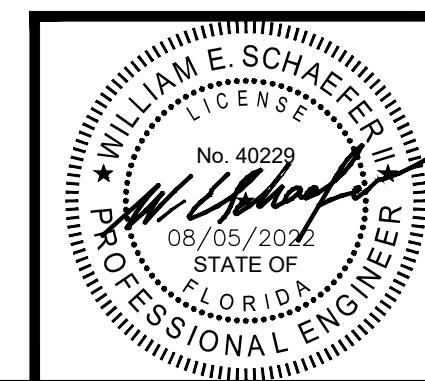
DOMINION ENGINEERING GROUP, INC.
 PLANNERS AND ENGINEERS
 4348 SOUTHPOINT BLVD, SUITE 204, JACKSONVILLE, FLORIDA 32216
 TEL: 904-854-4500 C.A. NUMBER: 26821 FAX 904-854-4505
 www.dom-eng.com

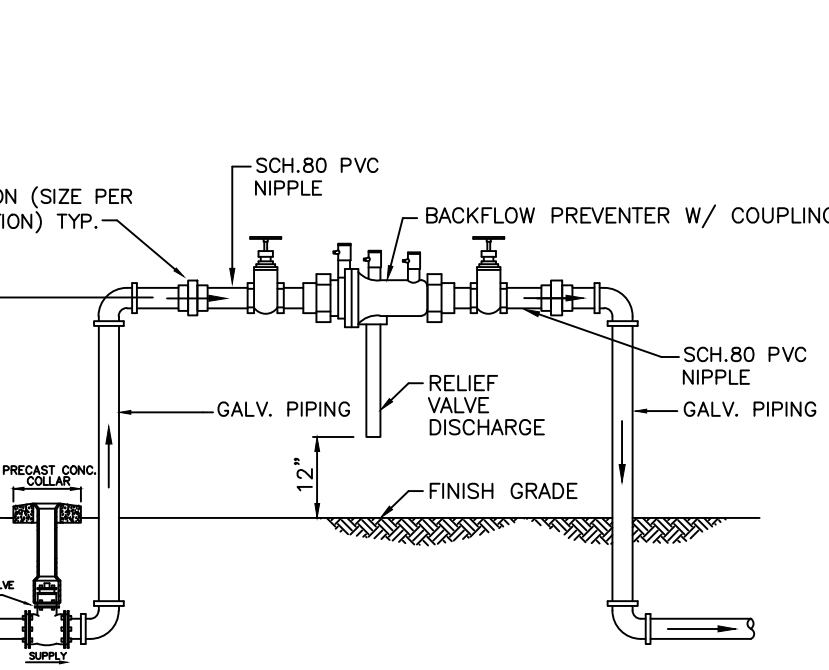
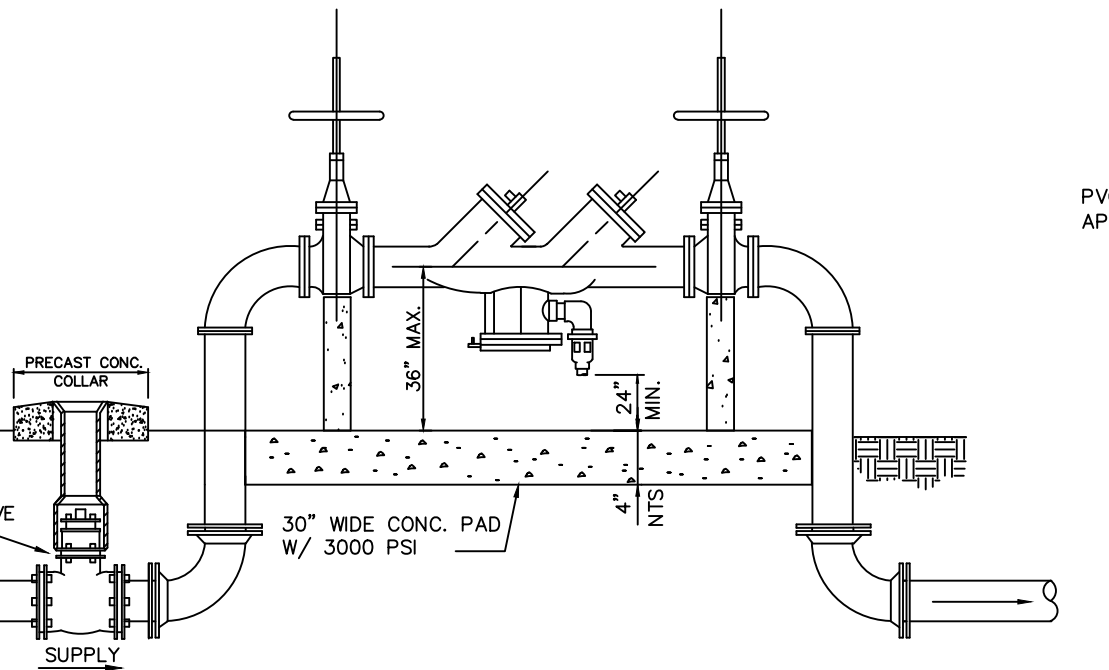
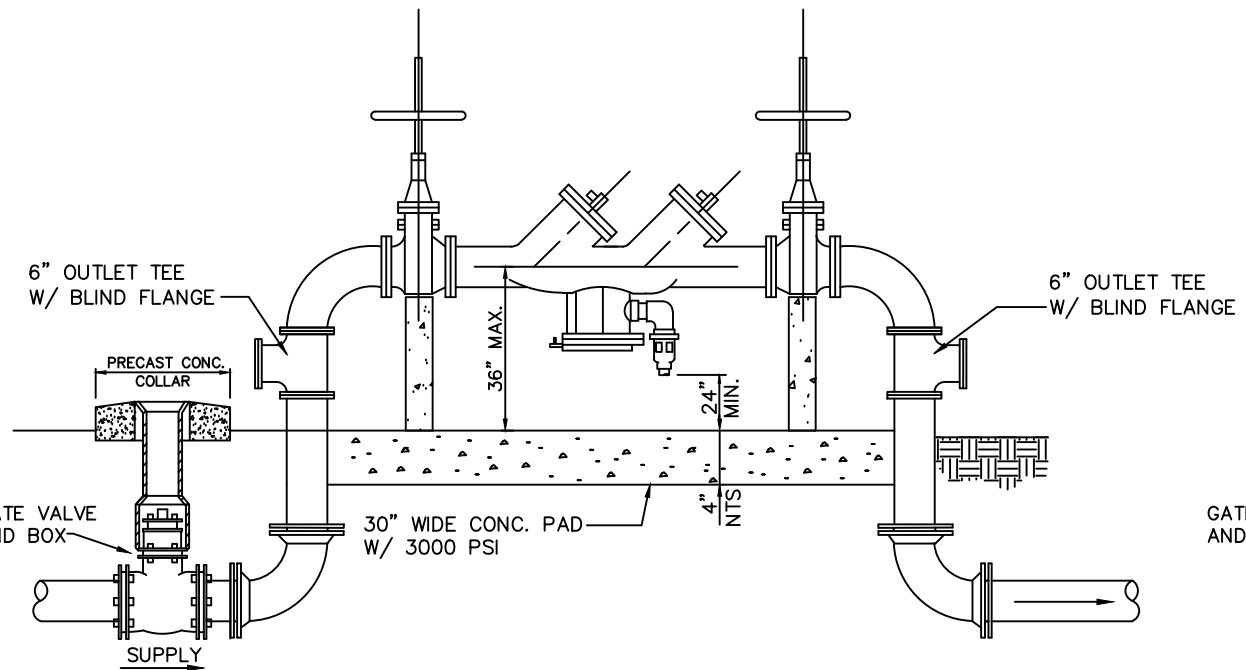
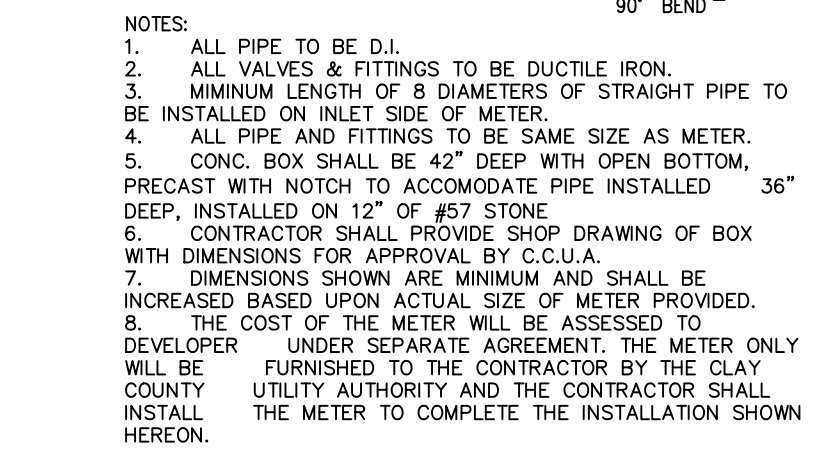
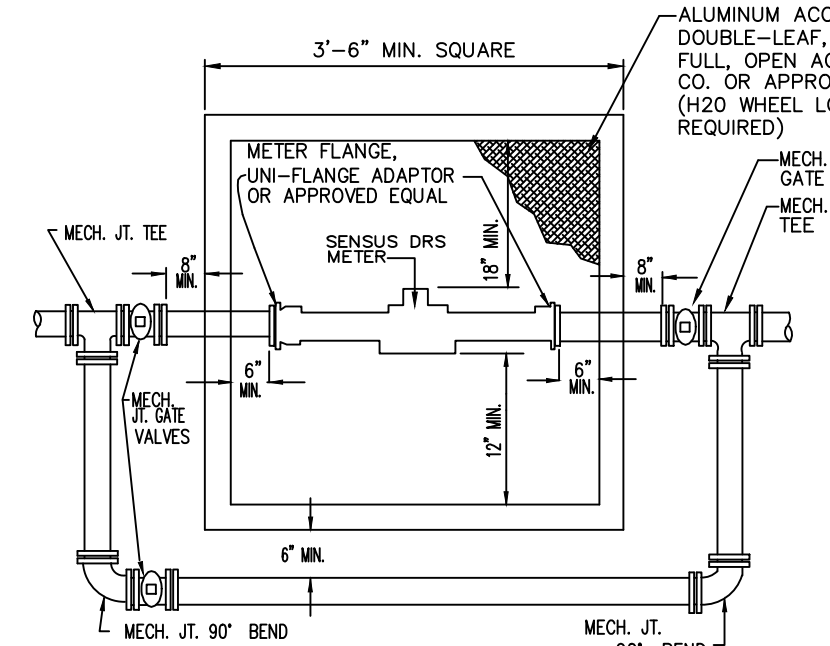
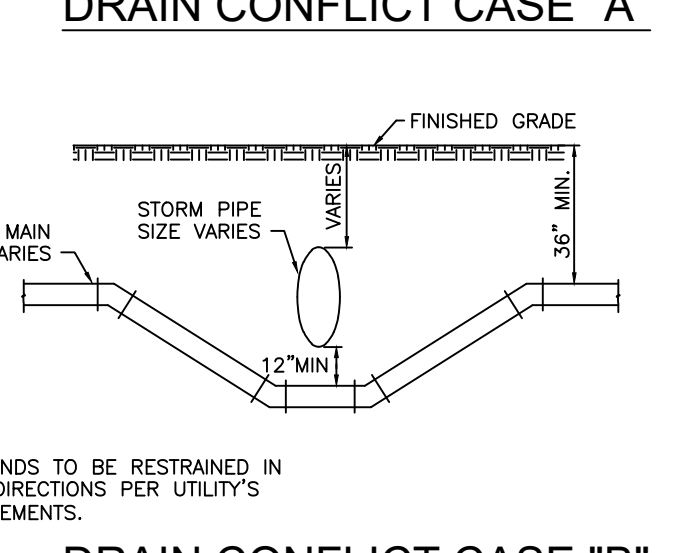
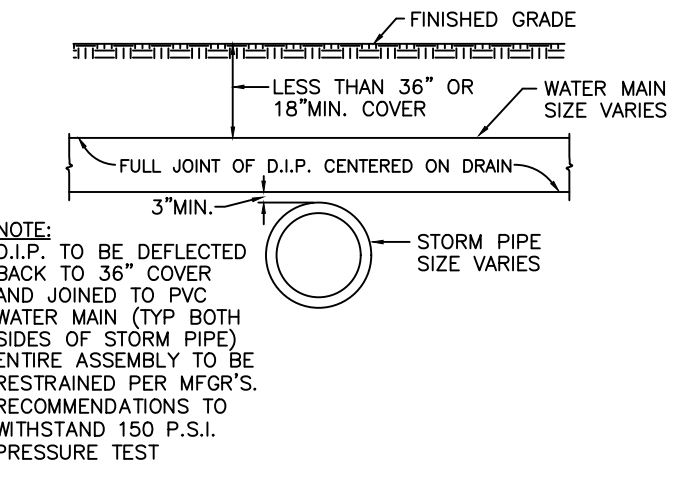
GRAYLON OAKS
 FOR
 GRAYLON OAKS LAND TRUST
 MAINTENANCE OF TRAFFIC

REVISIONS

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

C14
 OF





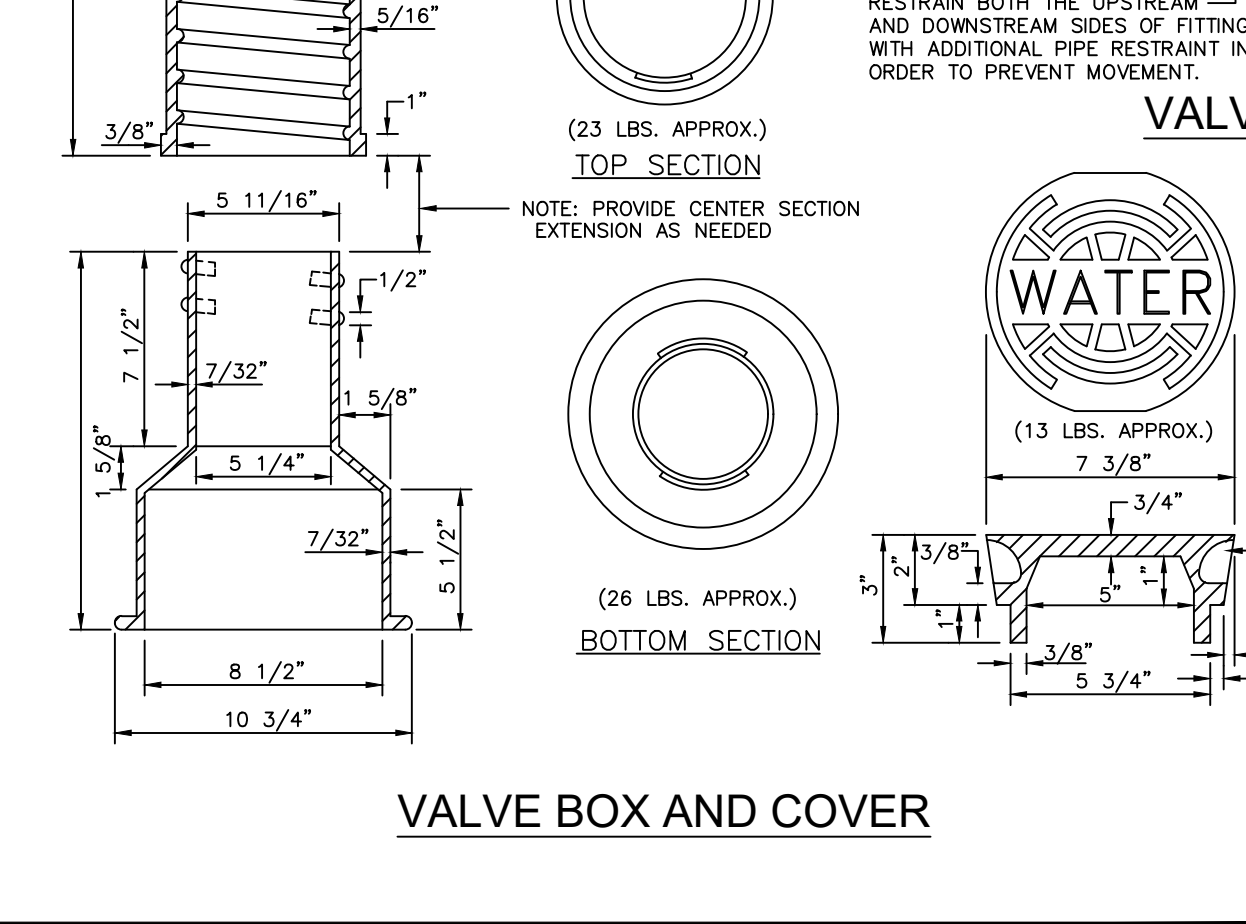
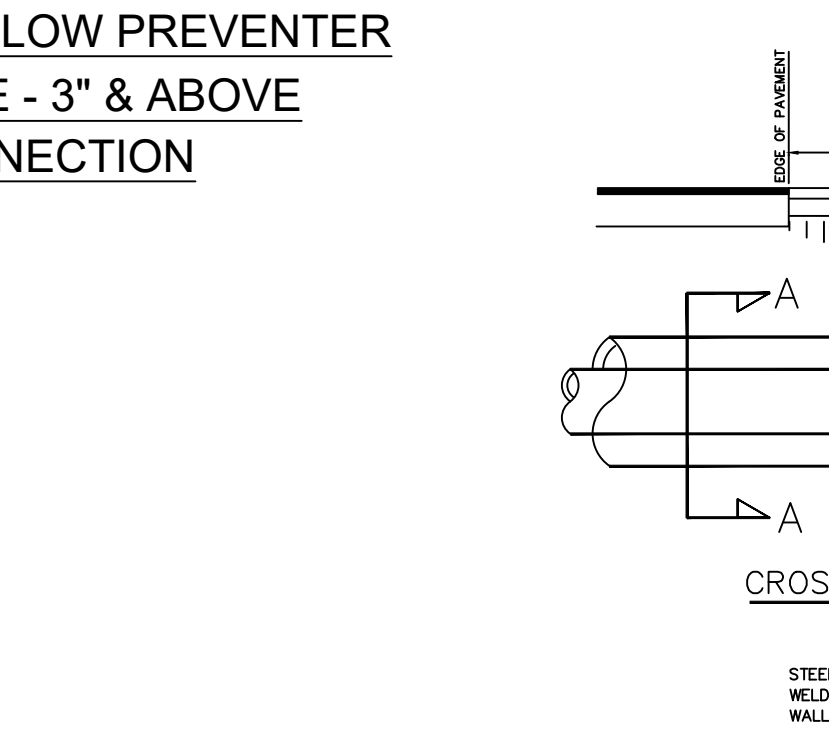
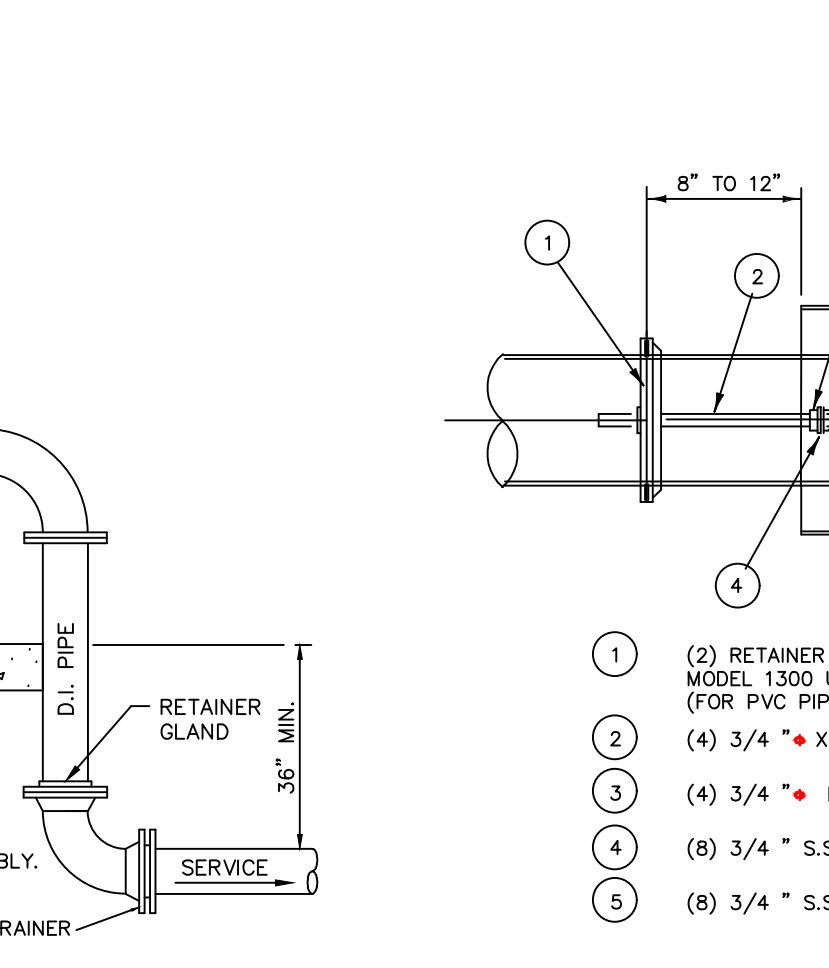
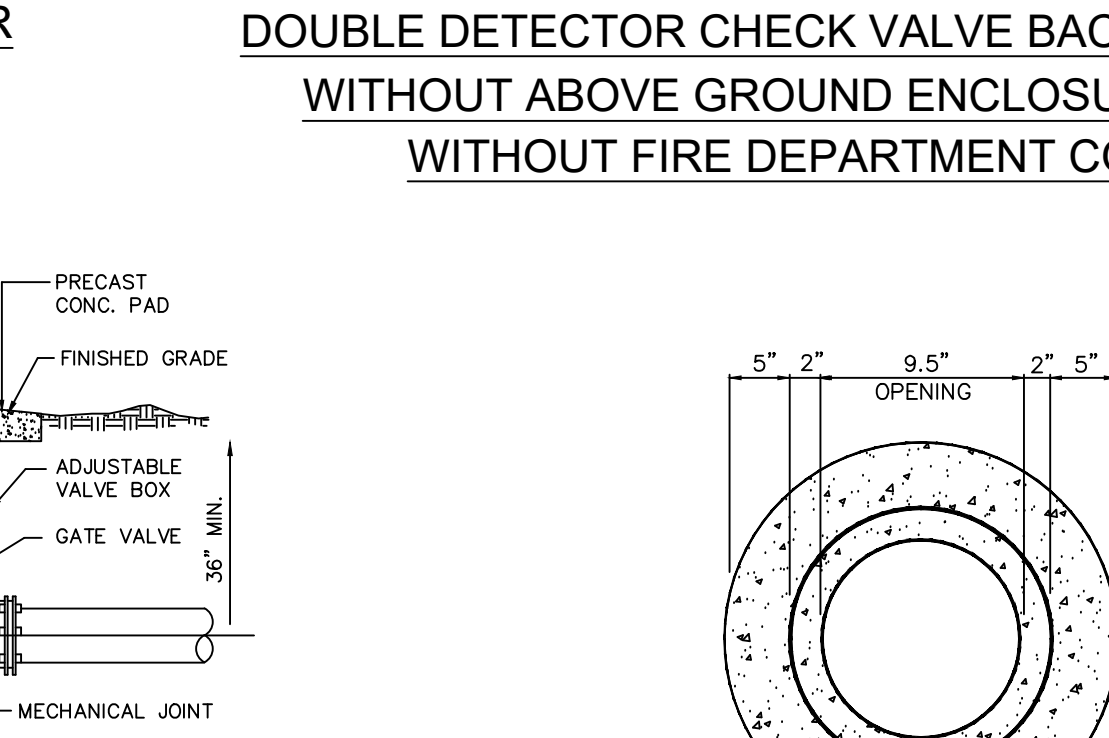
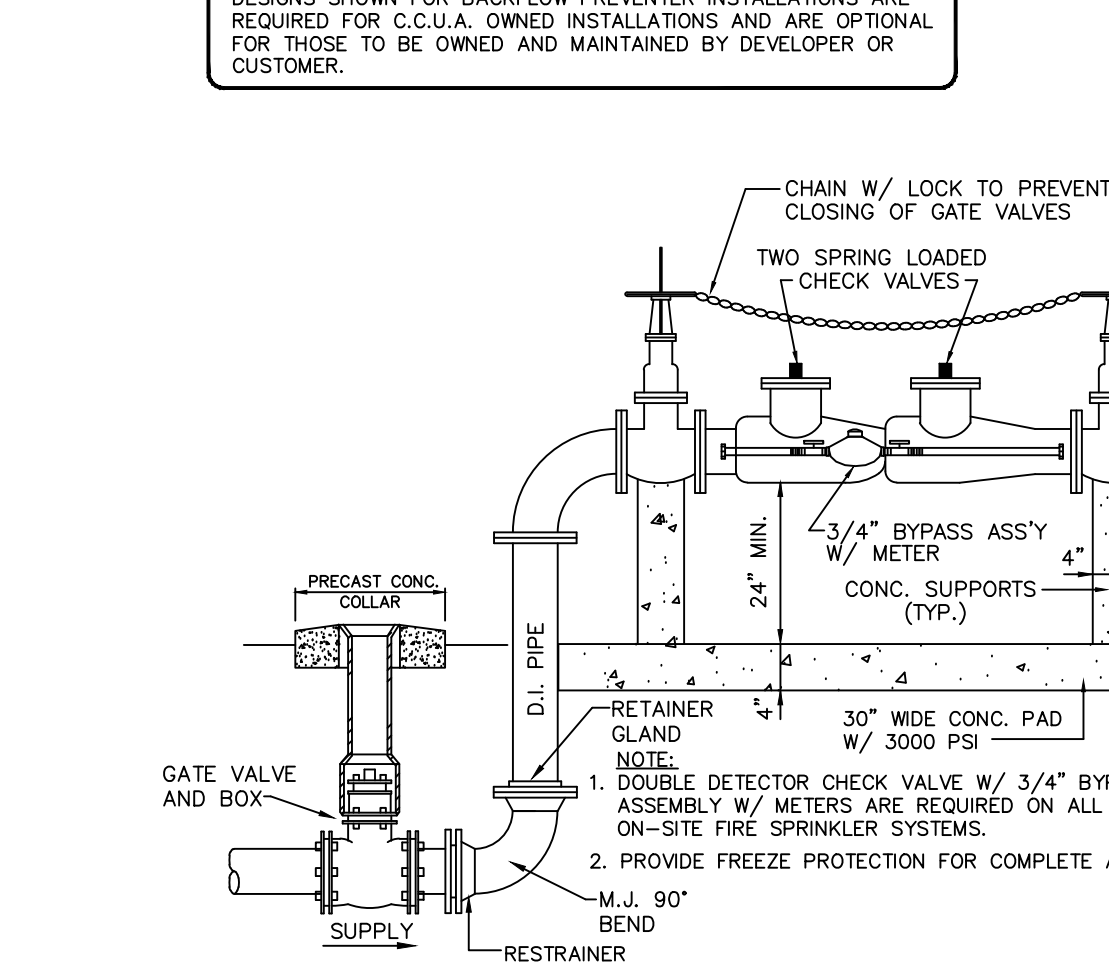
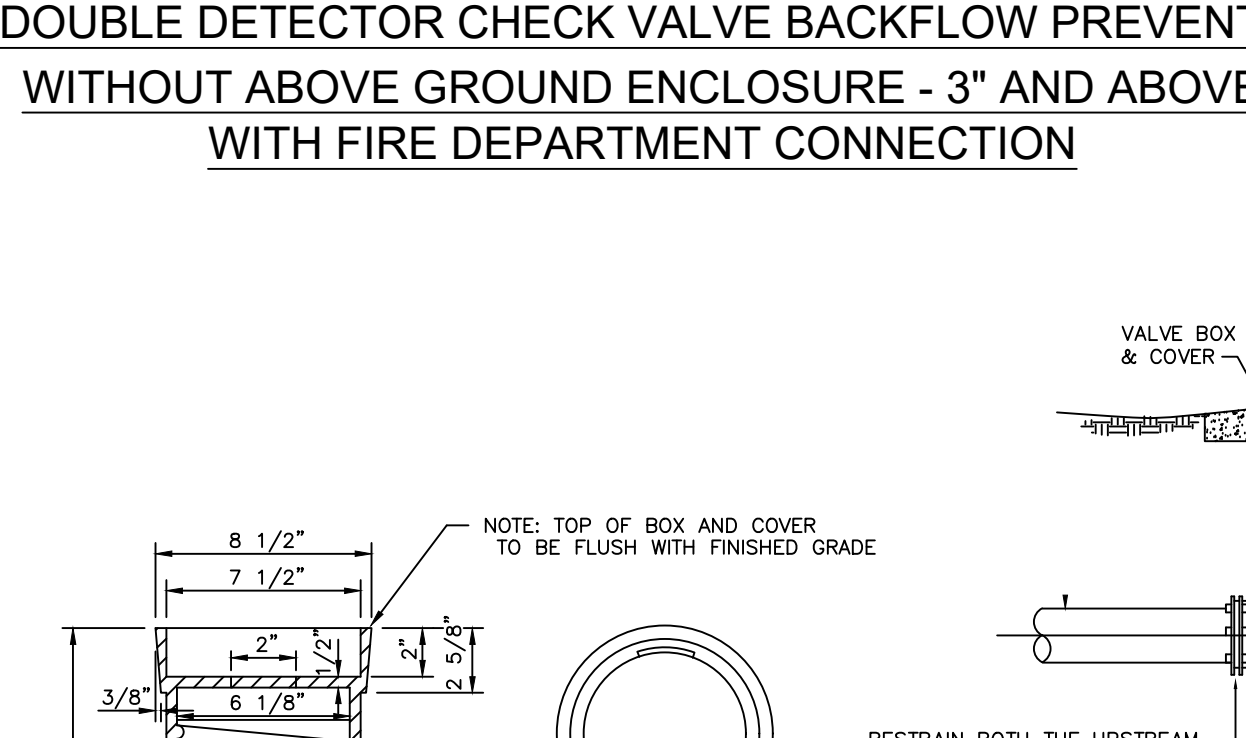
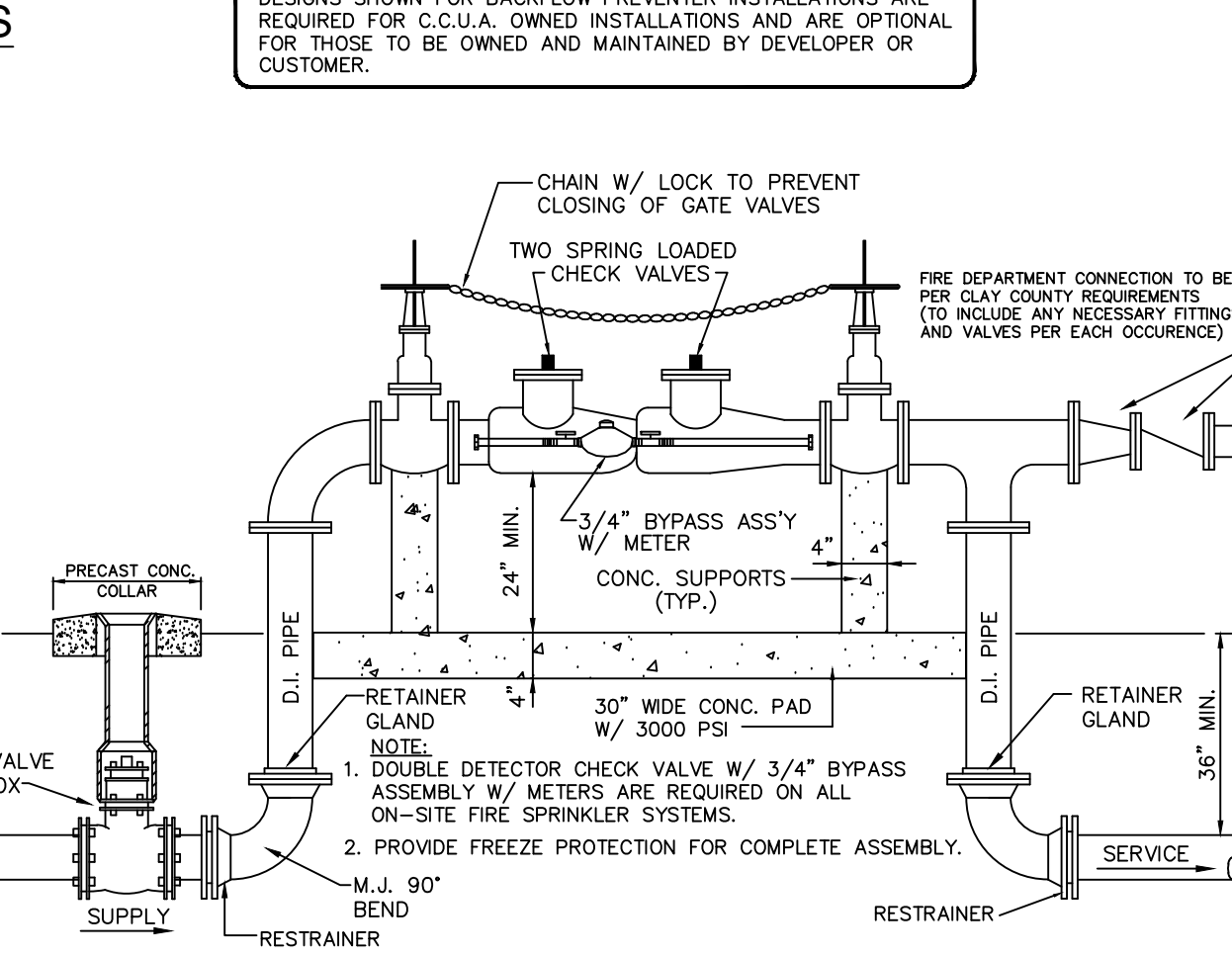
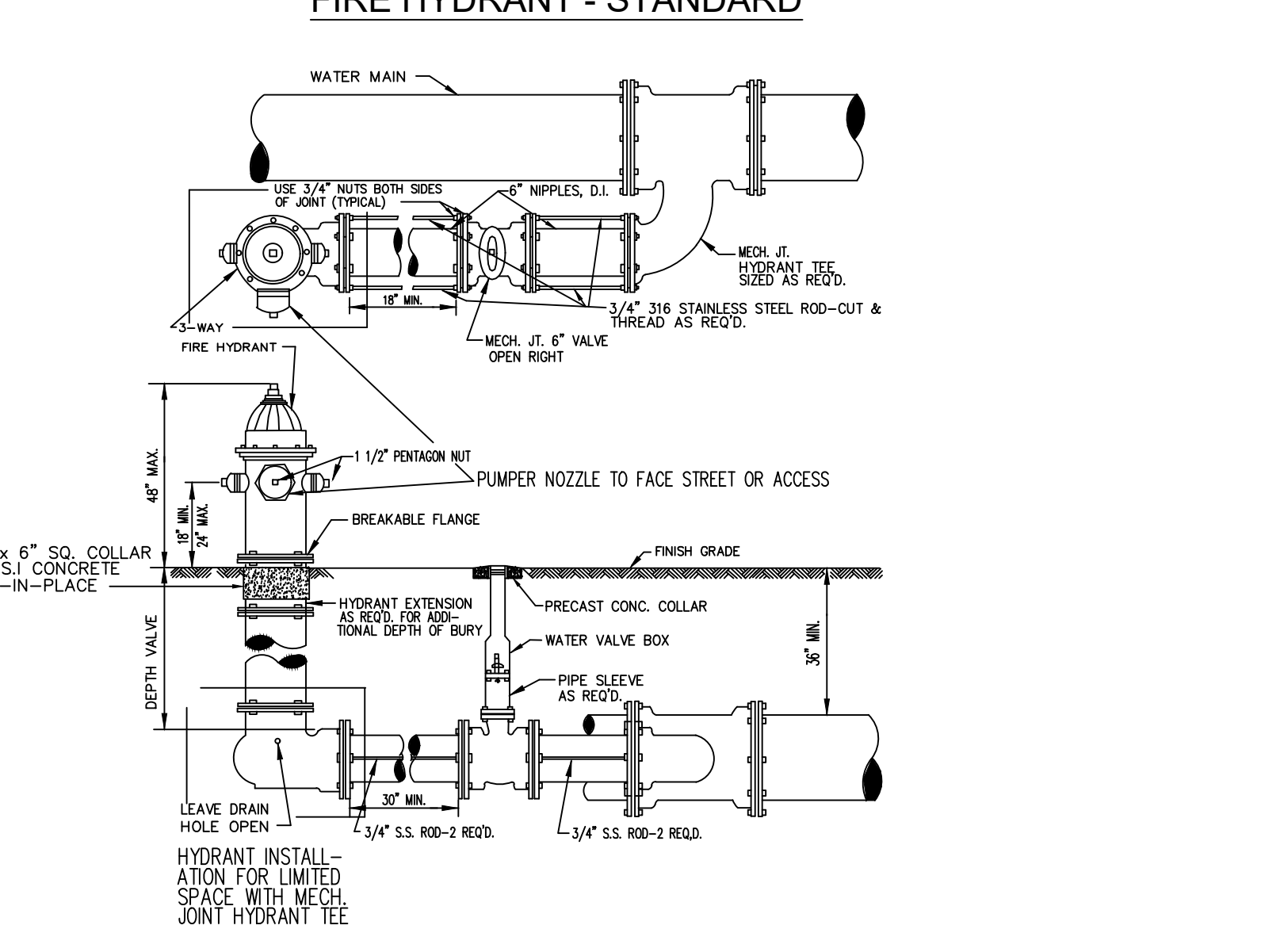
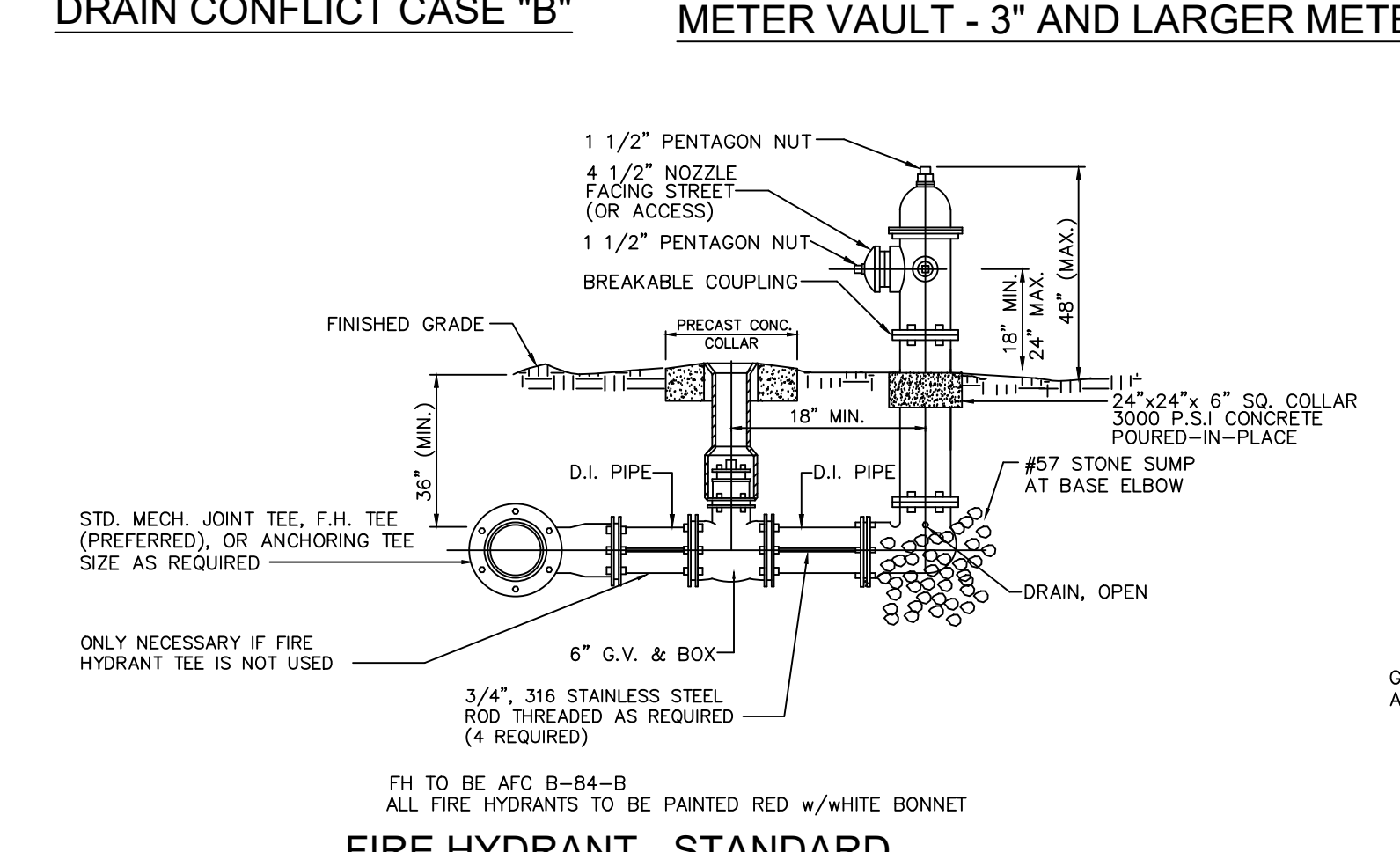
MINIMUM LENGTH TO BE RESTRAINED ON EACH SIDE OF FITTING (IN FEET)

NOMINAL PIPE SIZE (INCHES)	1/2" HORIZONTAL BEND	22 1/2" HORIZONTAL BEND	45" HORIZONTAL BEND	90" HORIZONTAL BEND	HORIZONTAL TEES	BRANCHES	90° ELBOWS	45° VERTICAL OFFSET (UPPER LEG ONLY)	45° VERTICAL OFFSET (LOWER LEG ONLY)	45° VERTICAL OFFSET (UPPER LEG LENGTH)	45° VERTICAL OFFSET (LOWER LEG LENGTH)	REDUCER TO ONE SIZE SMALLER LENGTH ON LARGER SIZE SIDE		
4	2	4	7	18	20	RUN	1	BRANCH	55	23	4	11	2	28
6	2	5	10	25	20	RUN	1	BRANCH	72	30	5	14	3	30
8	3	6	13	32	20	RUN	1	BRANCH	86	36	6	17	3	32
10	4	8	16	38	20	RUN	1	BRANCH	102	42	8	20	4	35
12	4	9	19	43	20	RUN	1	BRANCH	116	48	9	23	4	38
14	5	10	21	51	20	RUN	10	BRANCH	131	54	10	26	5	40
16	6	11	23	57	20	RUN	26	BRANCH	145	60	11	29	5	42
18	6	12	26	62	20	RUN	41	BRANCH	158	66	12	32	6	45
20	7	13	28	68	20	RUN	55	BRANCH	172	72	13	35	7	48
24	8	16	32	78	20	RUN	77	BRANCH	185	77	14	37	7	50
30	9	18	38	92	20	RUN	77	BRANCH	225	92	17	44	8	55
36	10	21	44	105	20	RUN	115	BRANCH	256	106	20	51	10	60

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 ROODS AT FITTING AND THROUGH 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

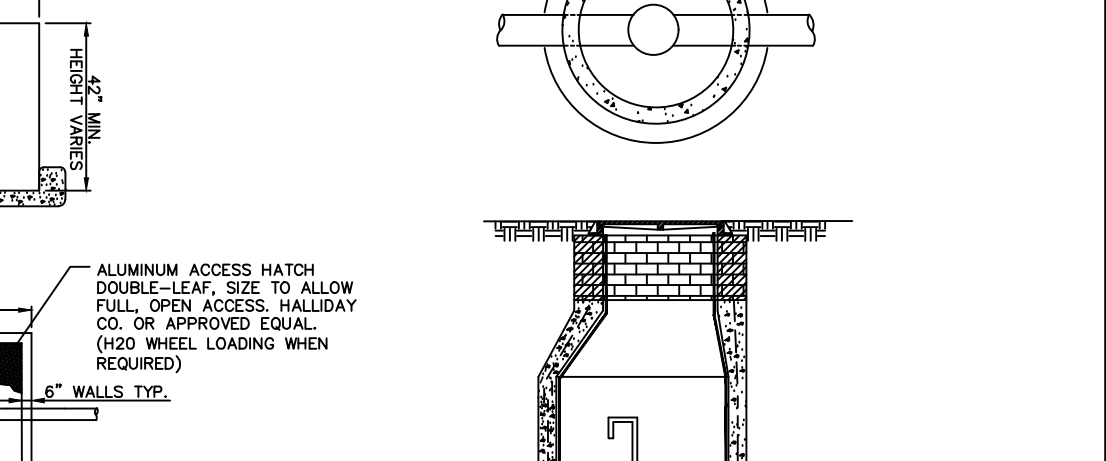
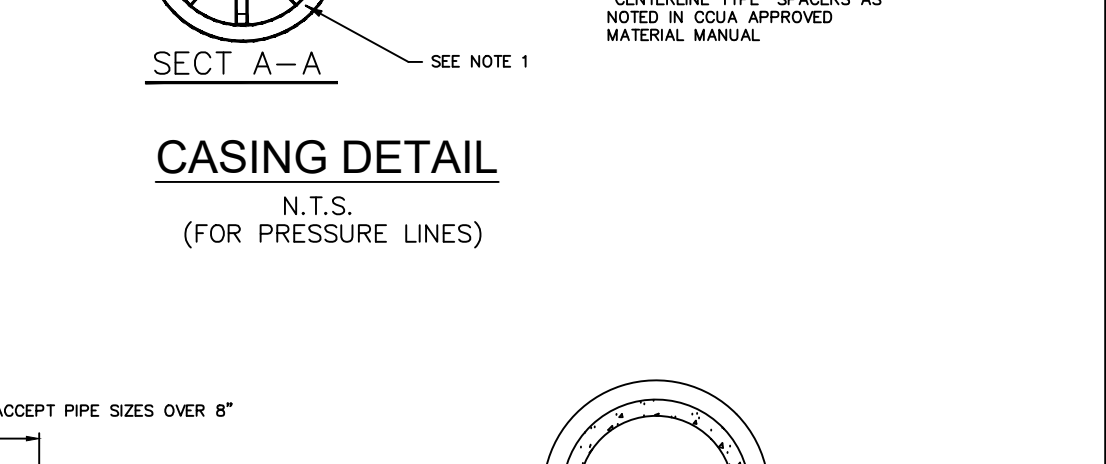
NOTES:
 1. RETAINER GLANDS OVER CARRIER PIPE SHALL BE SNUG TO PIPE.
 2. THREADED ROD TO TIE RETAINER GLAND OR RESTRAINER TO CASING THRU EYE BOLT OR RESTRAINER TO CASING THRU EYE BOLT.
 3. EYE BOLTS TO BE WELDED TO SIDE OF THE STEEL CASING BY BORING CONTRACTOR.
 4. NUMBER OF RODS PER CASING:
 8" CASING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



CASING SIZE SCHEDULE

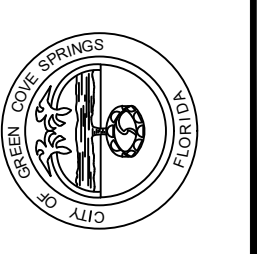
NR = CENTERED, NON-RESTRAINED

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					

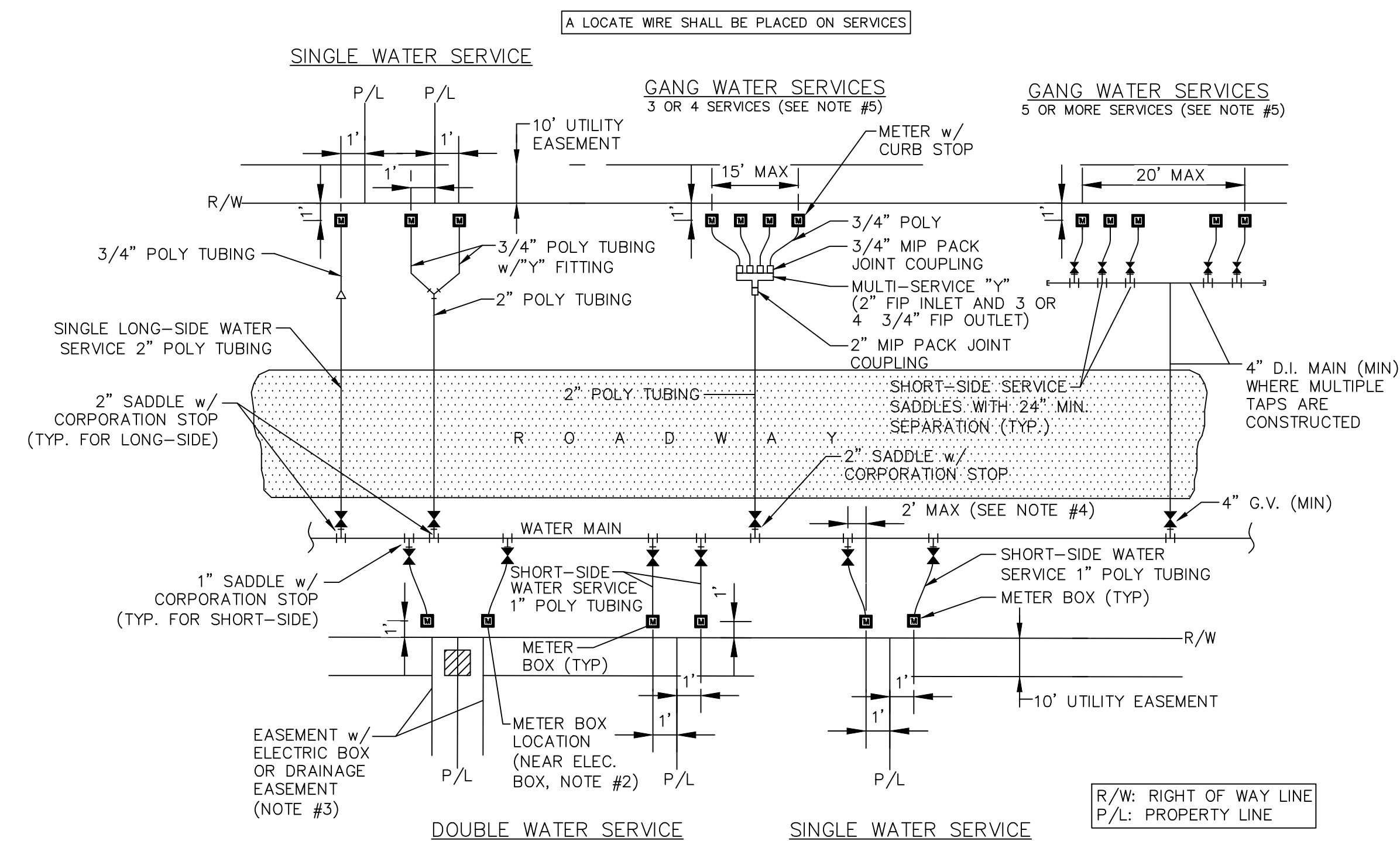


PROJECT: **STANDARD WATER SYSTEM DETAILS**

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

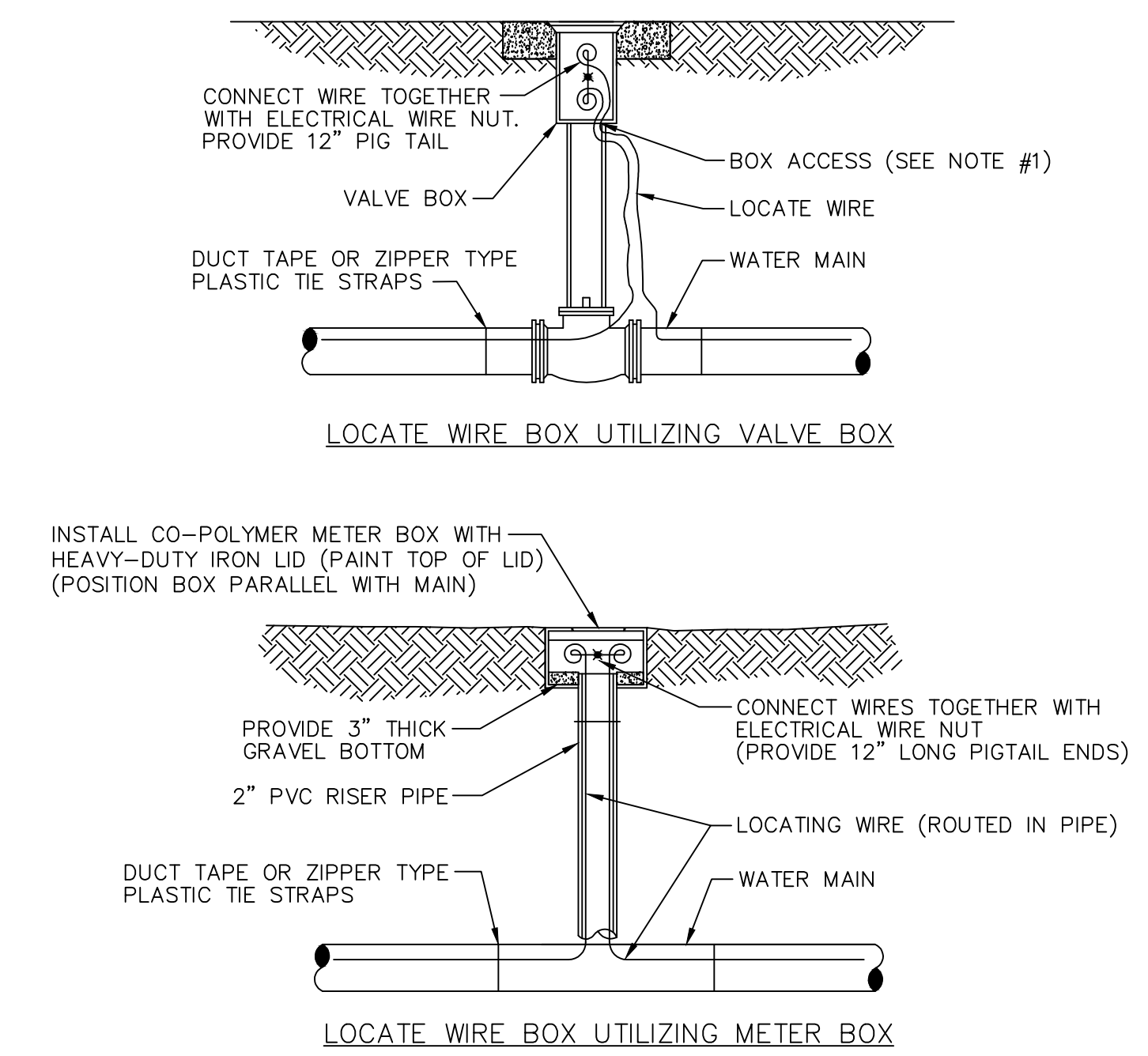


WATSTAND.DWG



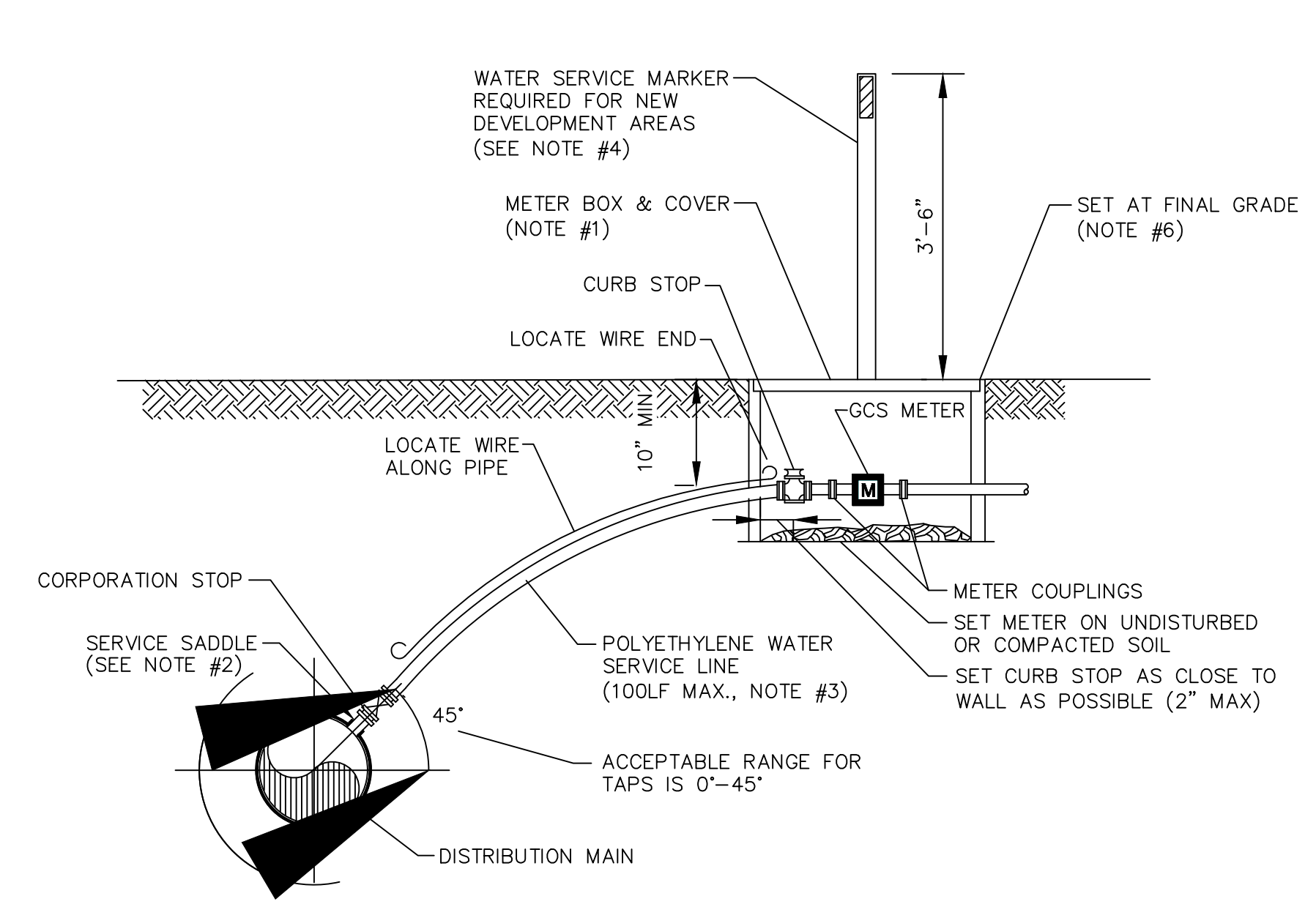
- NOTES**
- THE SKETCHES ABOVE INDICATE TYPICAL WATER SERVICE AND METER BOX LOCATIONS. ACTUAL LOCATIONS OF BOXES MAY VARY SLIGHTLY ACCORDING TO FIELD CONDITIONS ENCOUNTERED. TYPICALLY, THE METER BOX SHALL BE LOCATED 1.0' OFF OF THE R/W LINE.
 - UNLESS SPECIFIED OTHERWISE BY THE CITY OF GREEN COVE SPRINGS, 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 IS REQUIRED TO 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



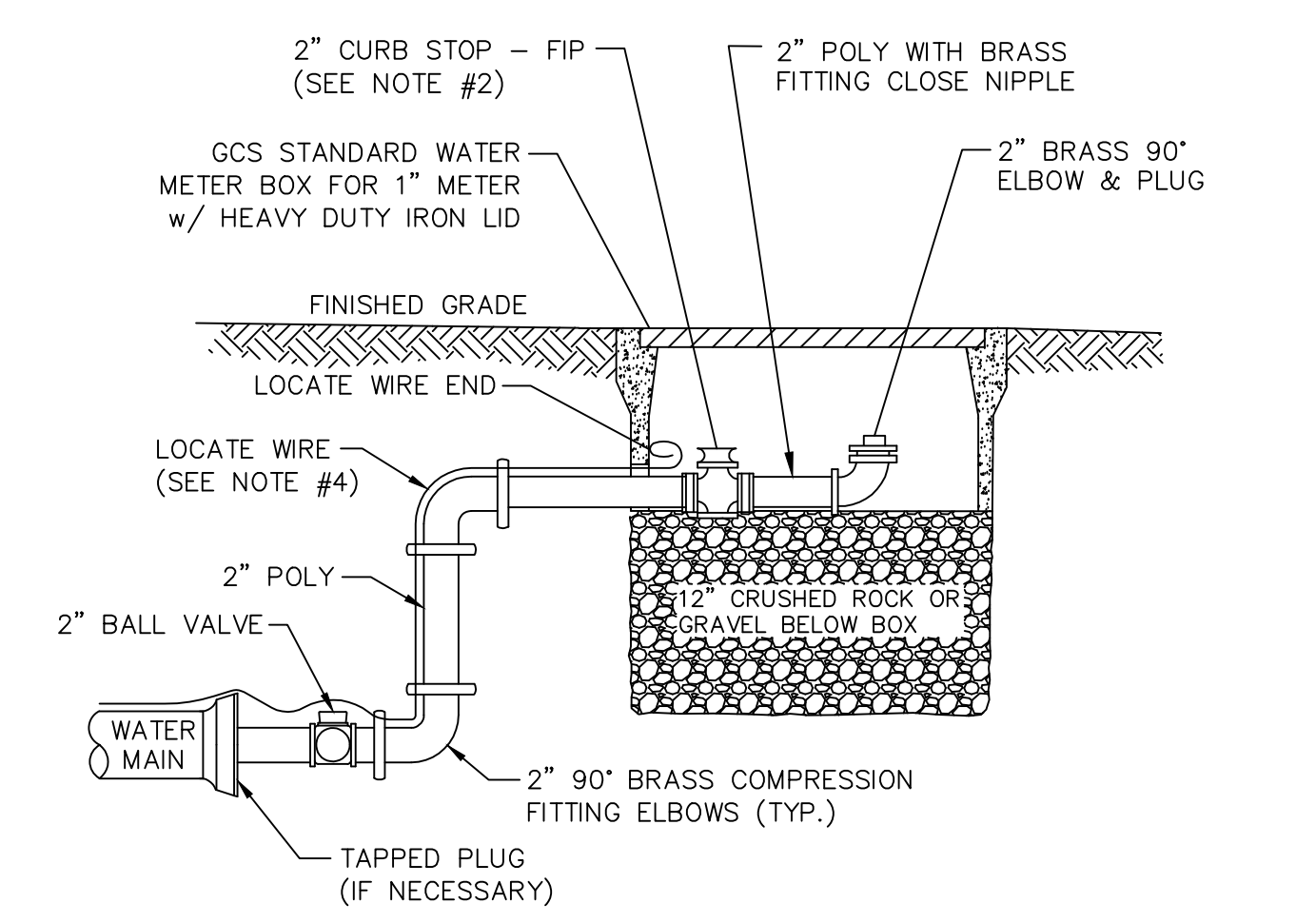
- NOTES**
- LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE.

LOCATE WIRE BOX



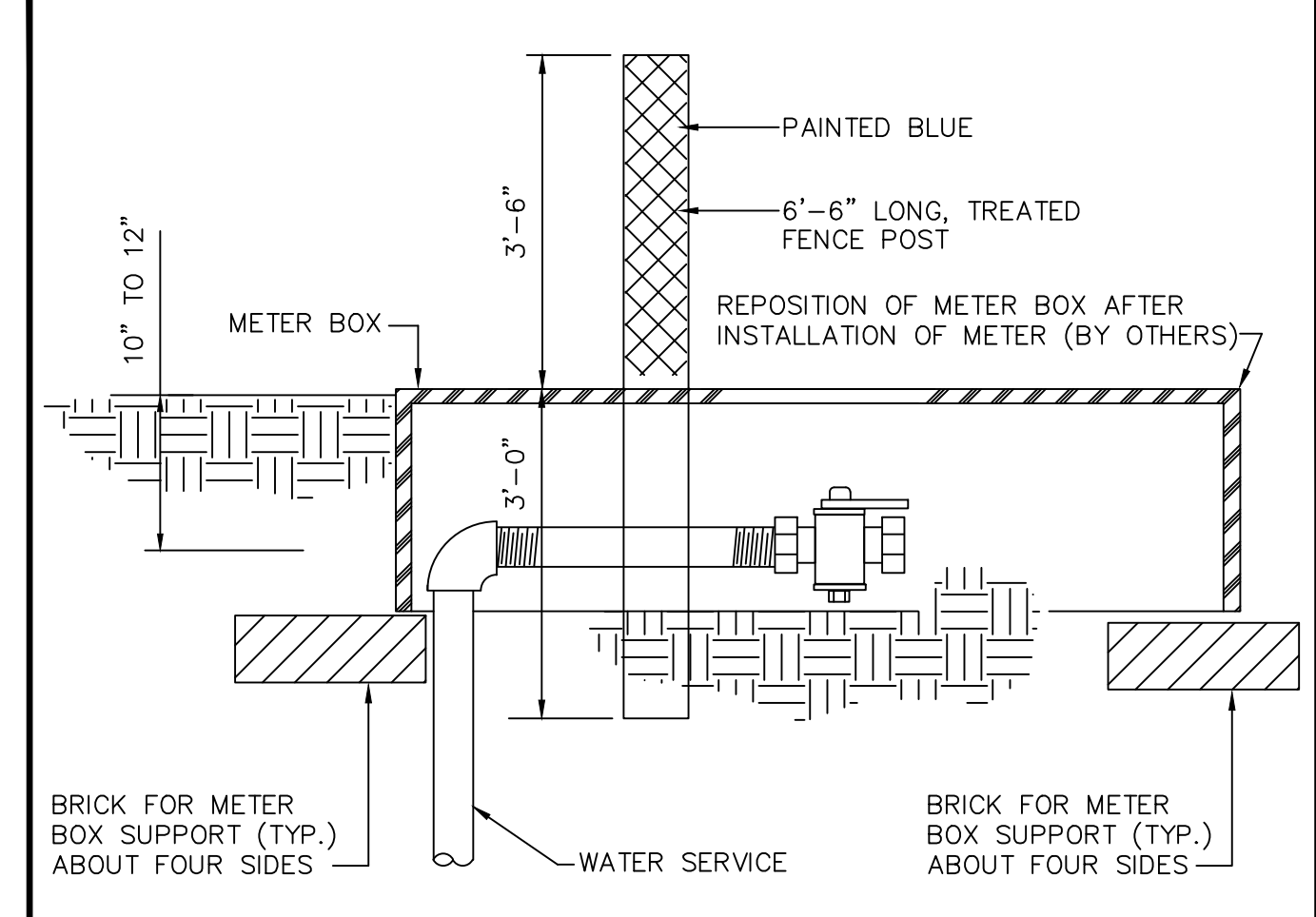
- NOTES**
- SEE CITY OF GREEN COVE SPRINGS APPROVED MATERIALS MANUAL AND SYSTEM DETAILS FOR REQUIREMENTS.
 - SINGLE BAND SADDLES MAYBE UTILIZED ON NEW 1" WATER SERVICES WHICH ARE INSTALLED ON A DRY 10" SIZE OR SMALLER WATER MAIN (NEW WATER MAIN CONSTRUCTION). FOR WET TAPS OR WATER MAINS 12" SIZE AND 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.

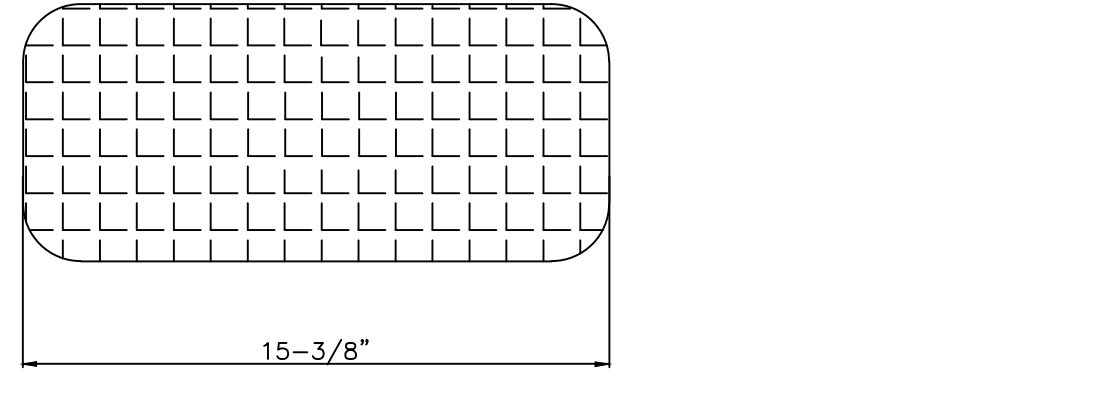
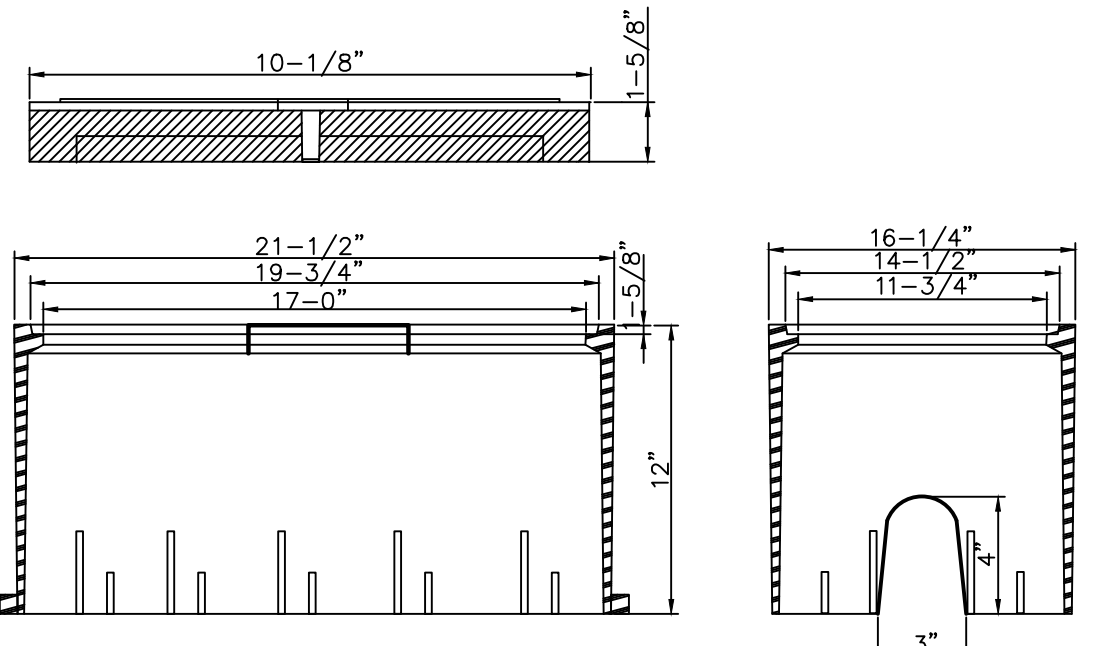
FLUSHING VALVE BELOW GRADE



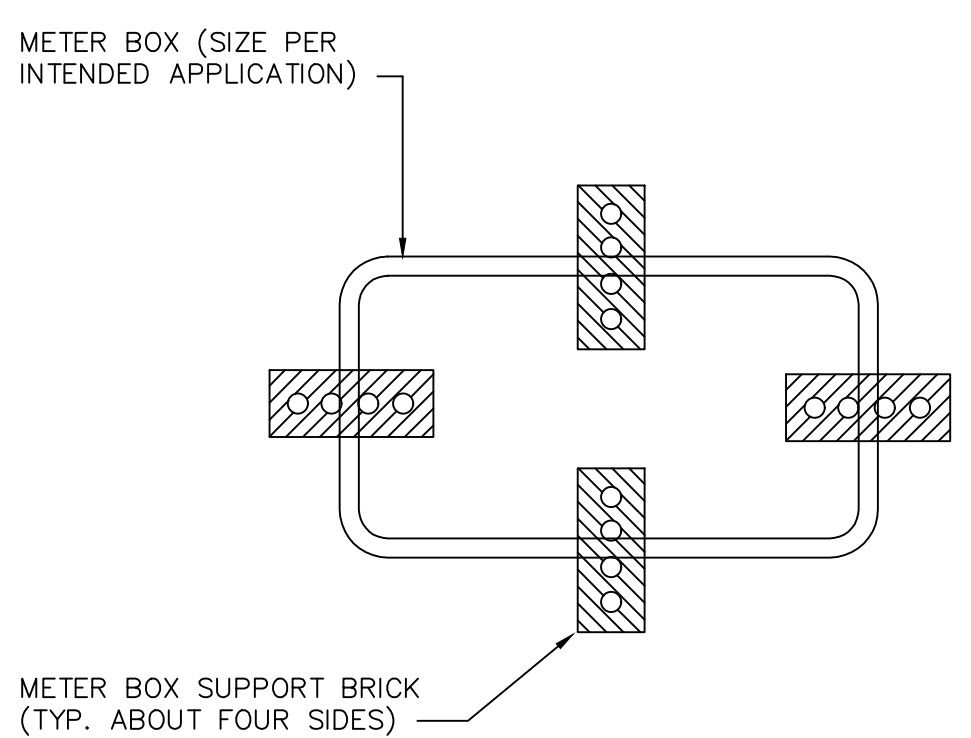
WATER SERVICE MARKER POST

- 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

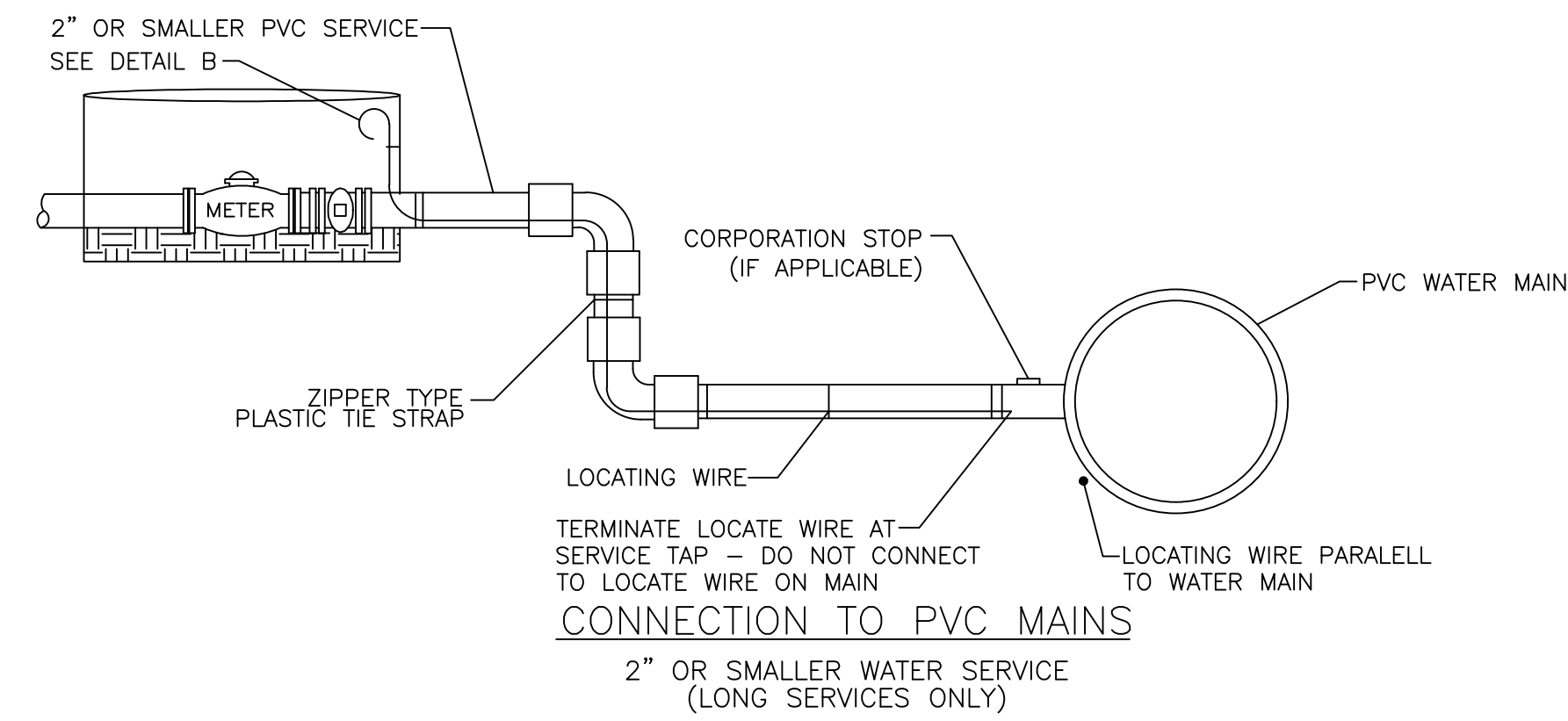
NO.	DATE	BY	SS.
1	FEB. 2016		GENERAL UPDATES

DESIGN: _____
DRAWN: _____
CHKD: _____
APRV: _____
DATE: _____

PROJECT: **STANDARD WATER SERVICE DETAILS**

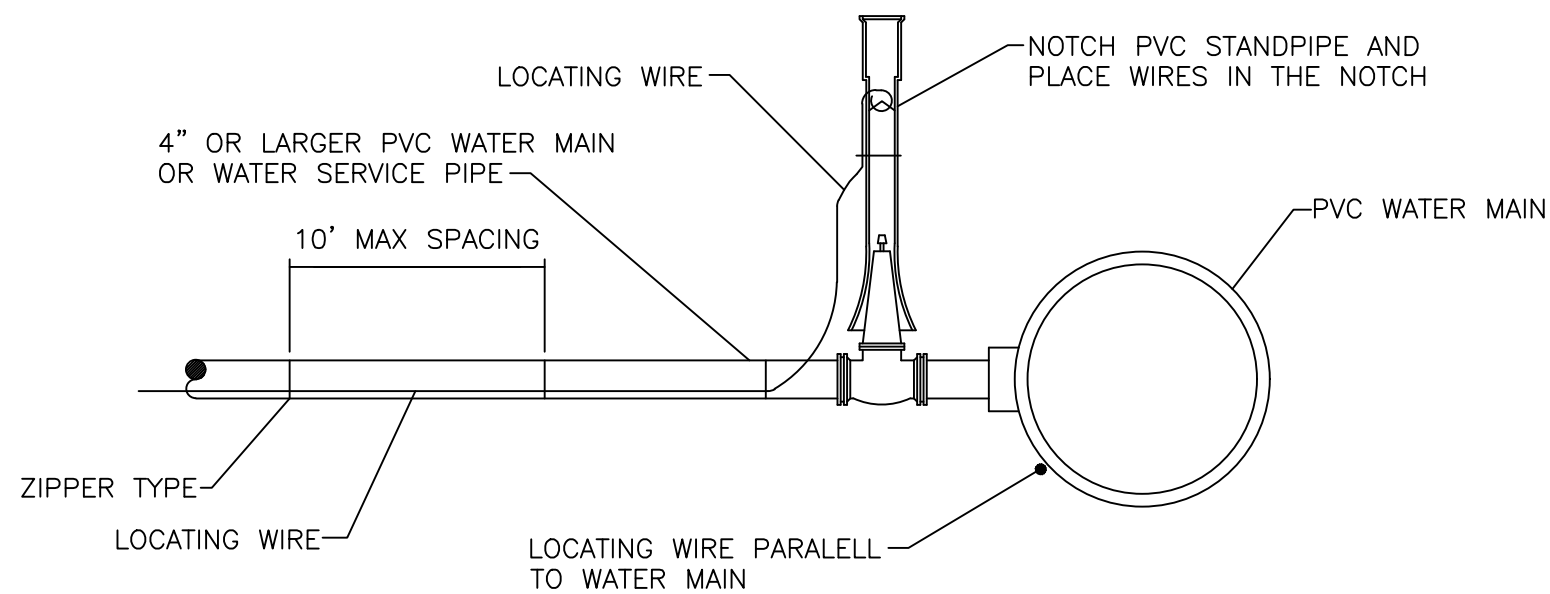
CITY OF GREEN COVE SPRINGS
321 WALNUT STREET
GREEN COVE SPRINGS, FLORIDA 32043

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 pain 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.

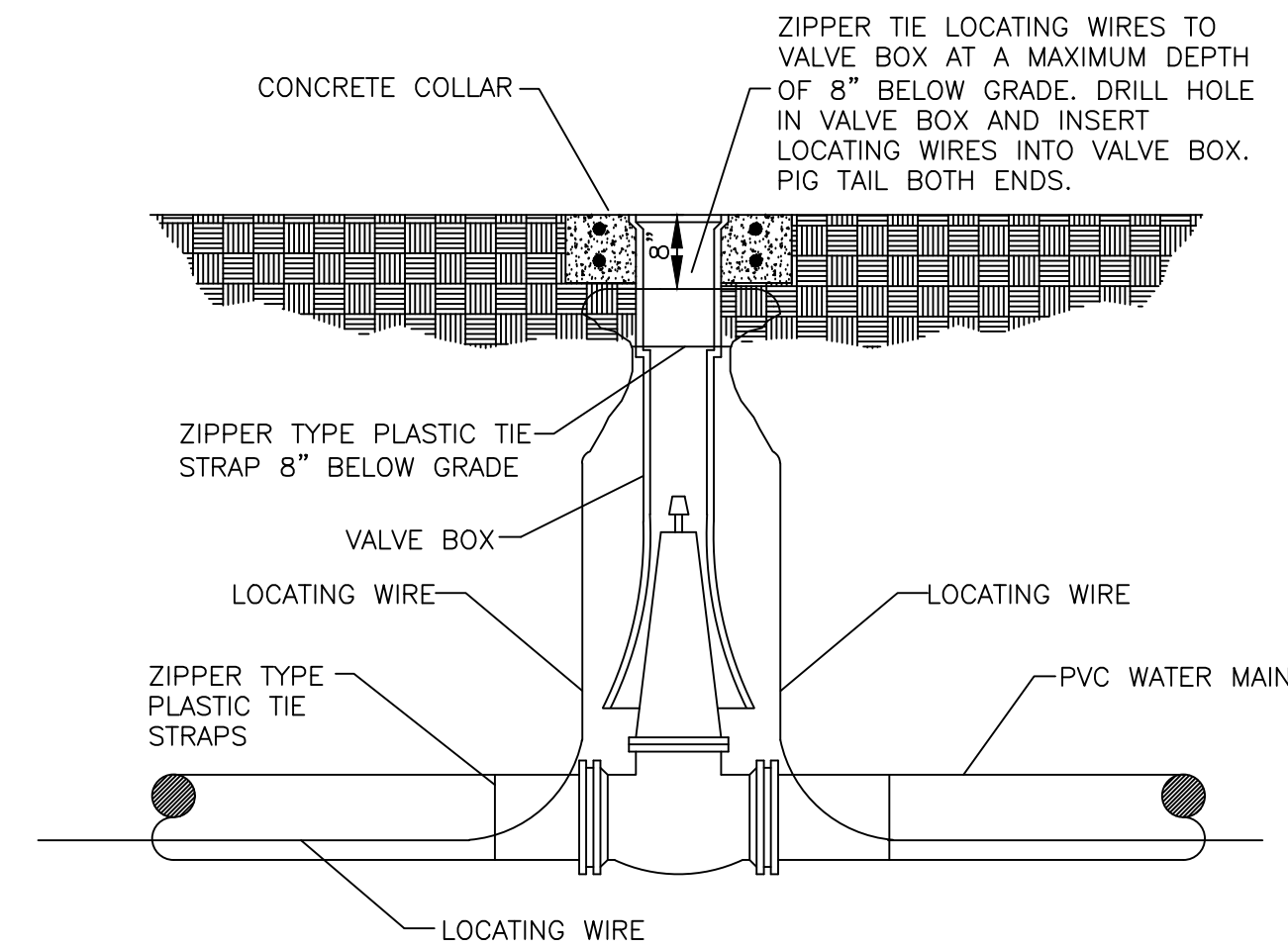
Certified Tester - A person or company that has been certified by the Manufacturer of the approved testing equipment as proficient in the use of the equipment has 8 months experience in the use of the equipment including documented proof of past performance.

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.

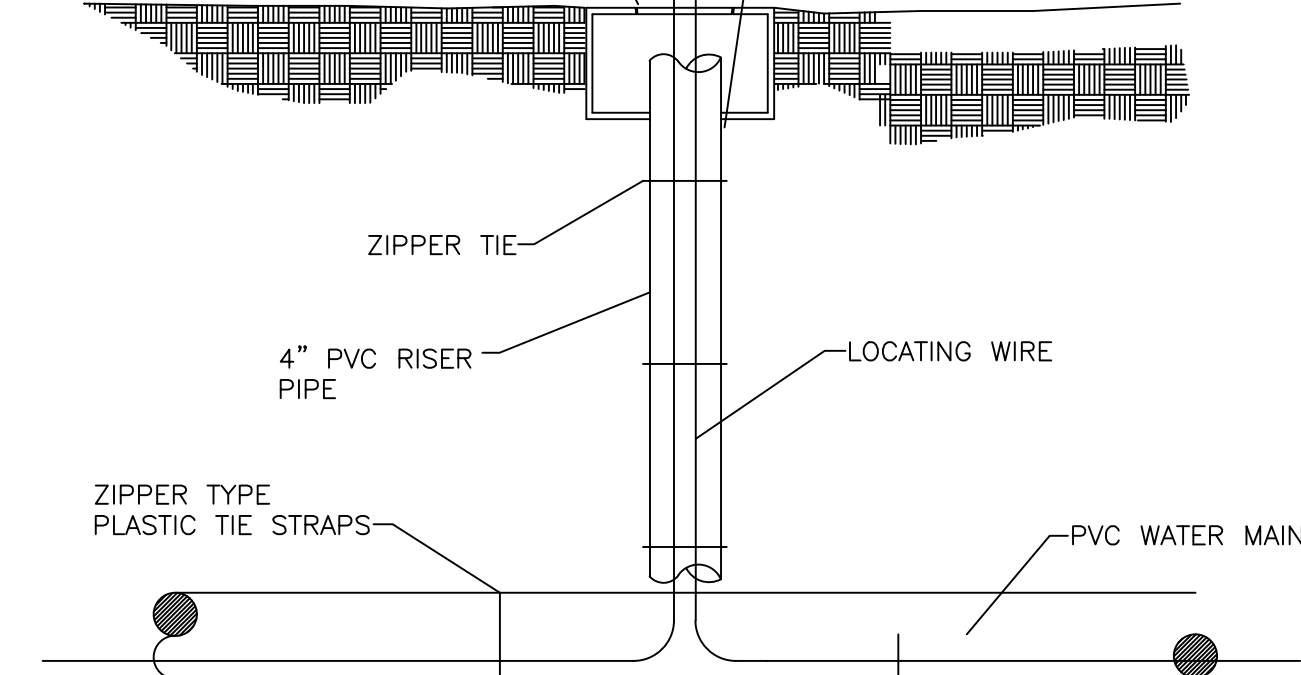
LOCATE WIRE BOX INSTALLATION
 Where utility mains are to be installed beneath sidewalks, valve boxes shall be installed instead of locate wire boxes. The valve box lids shall indicate the type of line (i.e. water, sewer, or reclaimed water). The valve box shall be adjusted so the top of valve box is 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.



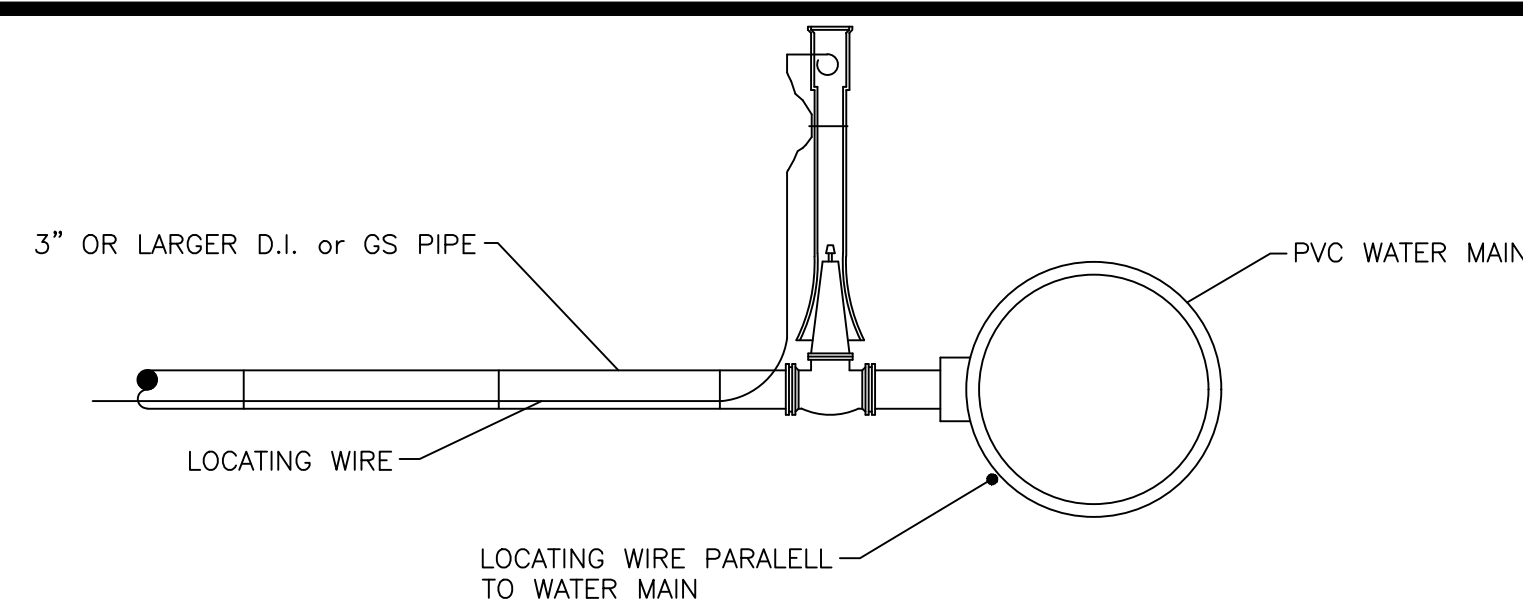
IN LINE LOCATING STATION- PVC PIPE

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



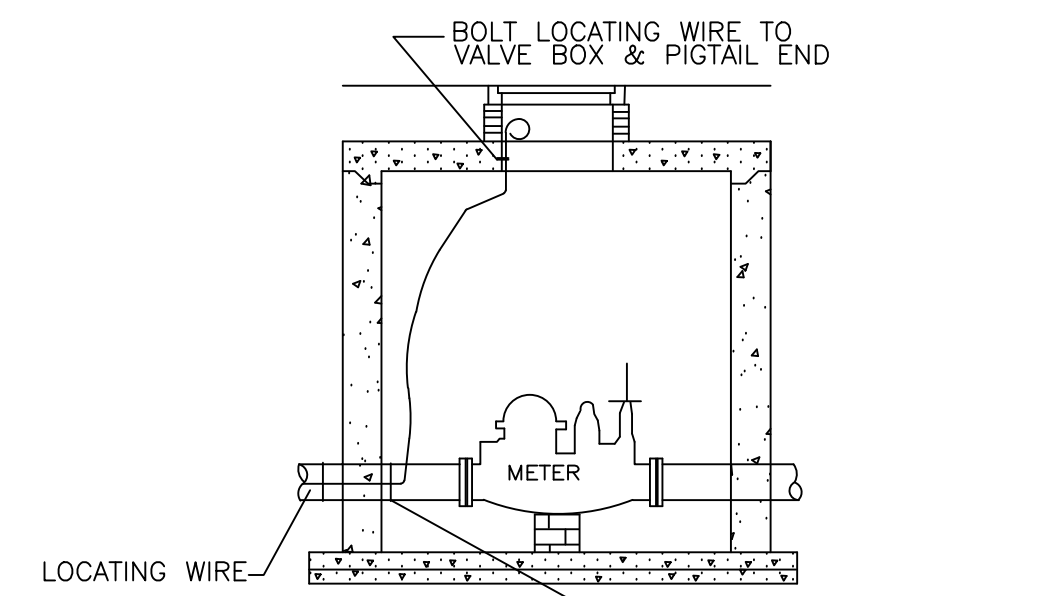
IN LINE LOCATING STATION - PVC PIPE

METER BOX
 DETAIL - C



CONNECTION TO PVC MAINS

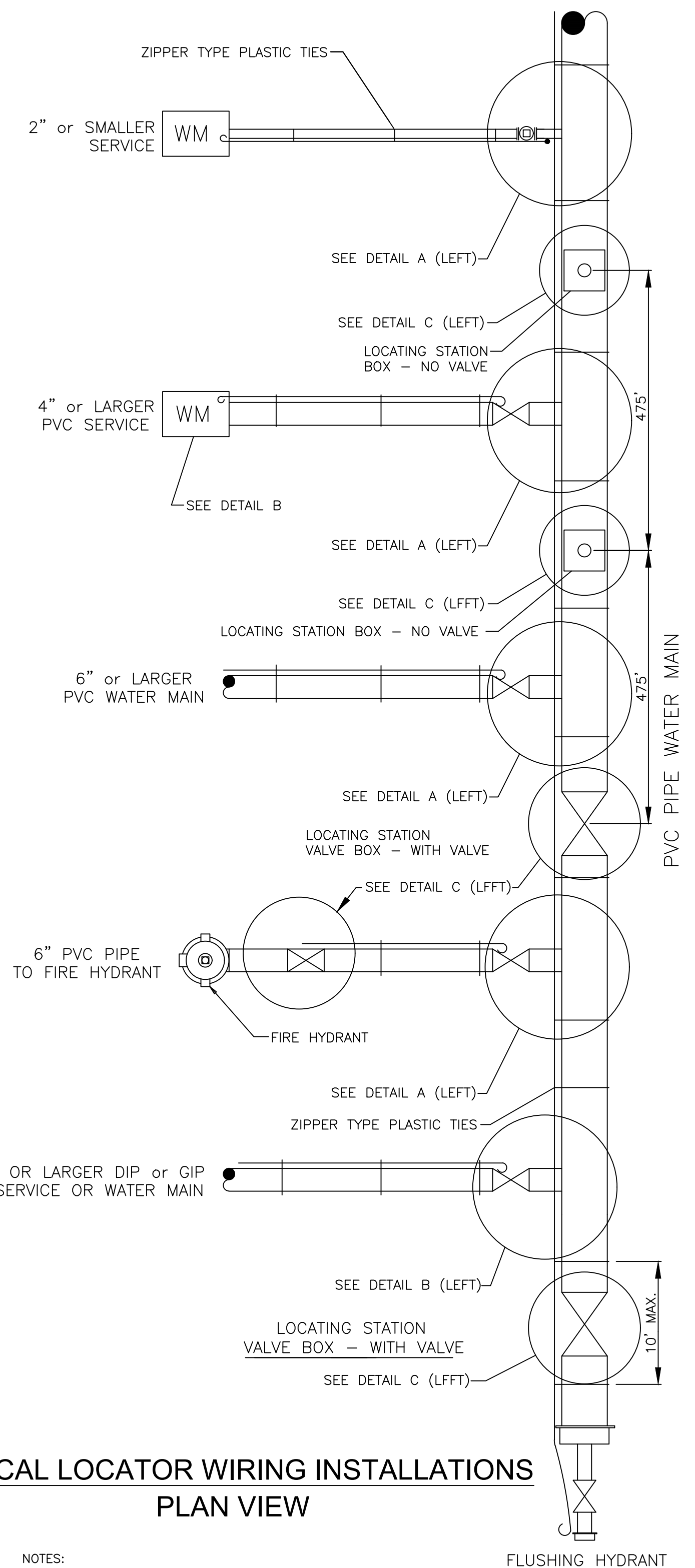
w/ 3" OR LARGER D.I. OR GS WATER SERVICE OR WATER MAIN



CONNECTION AT METERS BOXES

w/ PVC WATER SERVICE

DETAIL - B



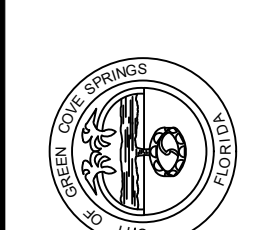
TYPICAL LOCATOR WIRING INSTALLATIONS
 PLAN VIEW

- 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.

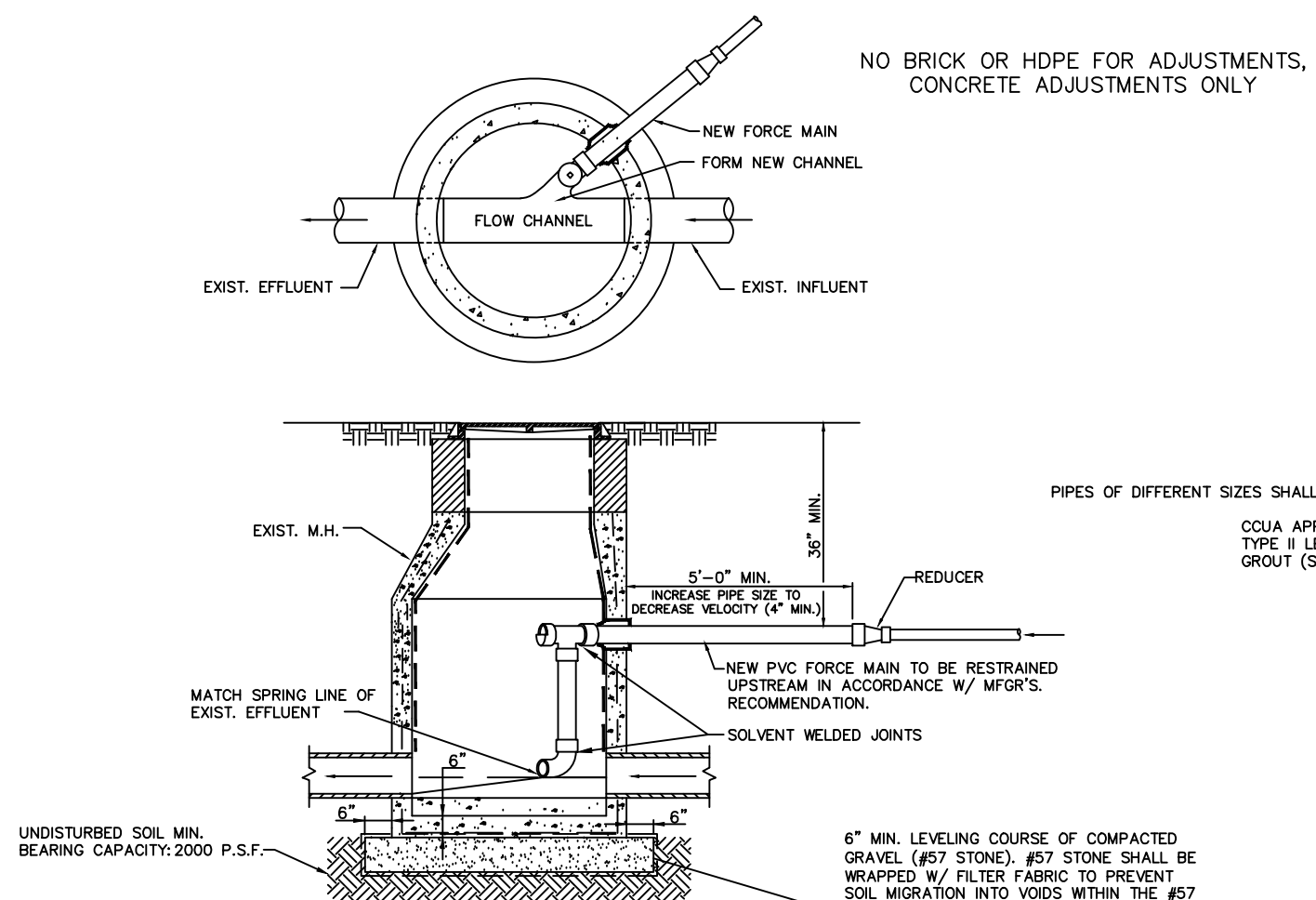
DESC	DATE	BY
DRWN		
CHKD		
APRV		
DATE		

PROJECT:
STANDARD LOCATOR WIRING INSTALLATIONS

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

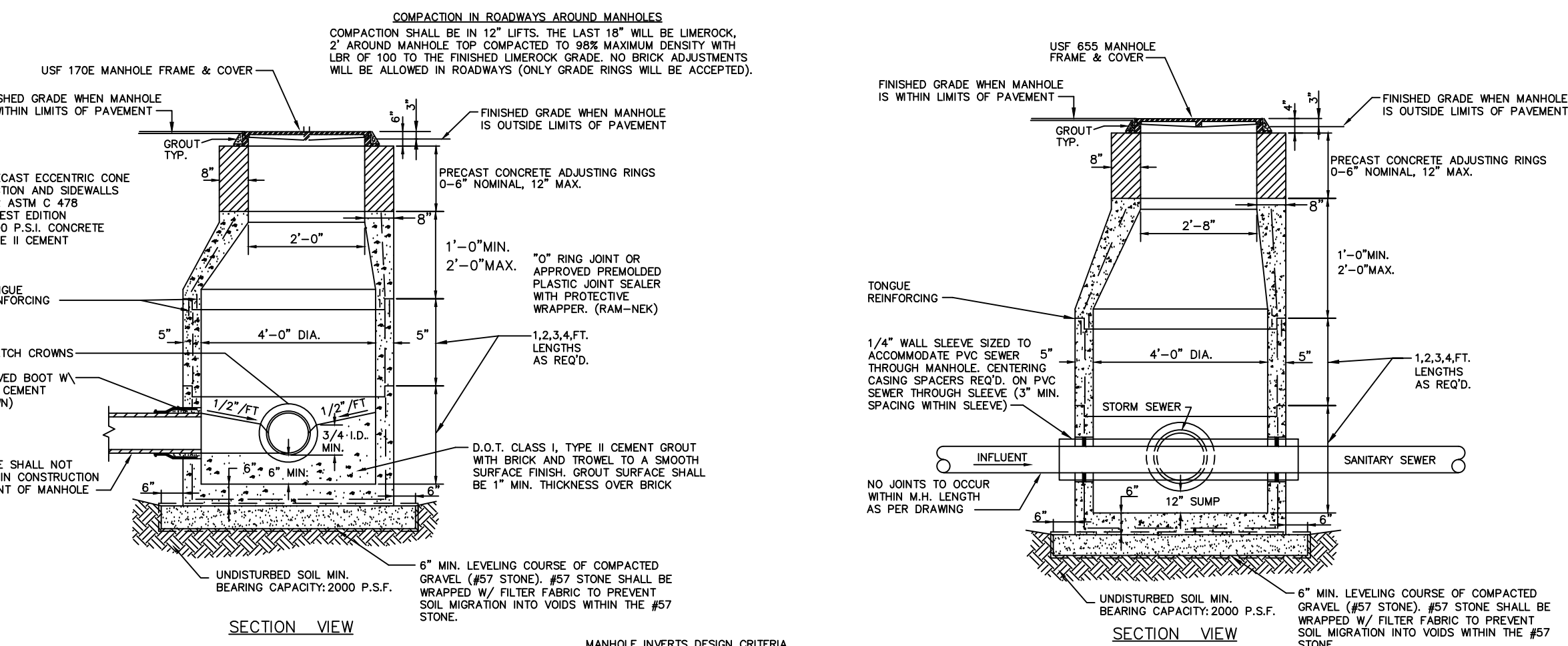


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TRACERWIRE.DWG
 SHEET NO.
C18

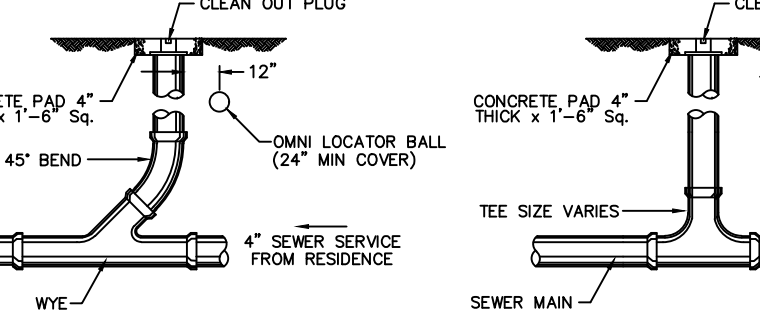


TYP. FORCE MAIN CONNECTION TO MANHOLE

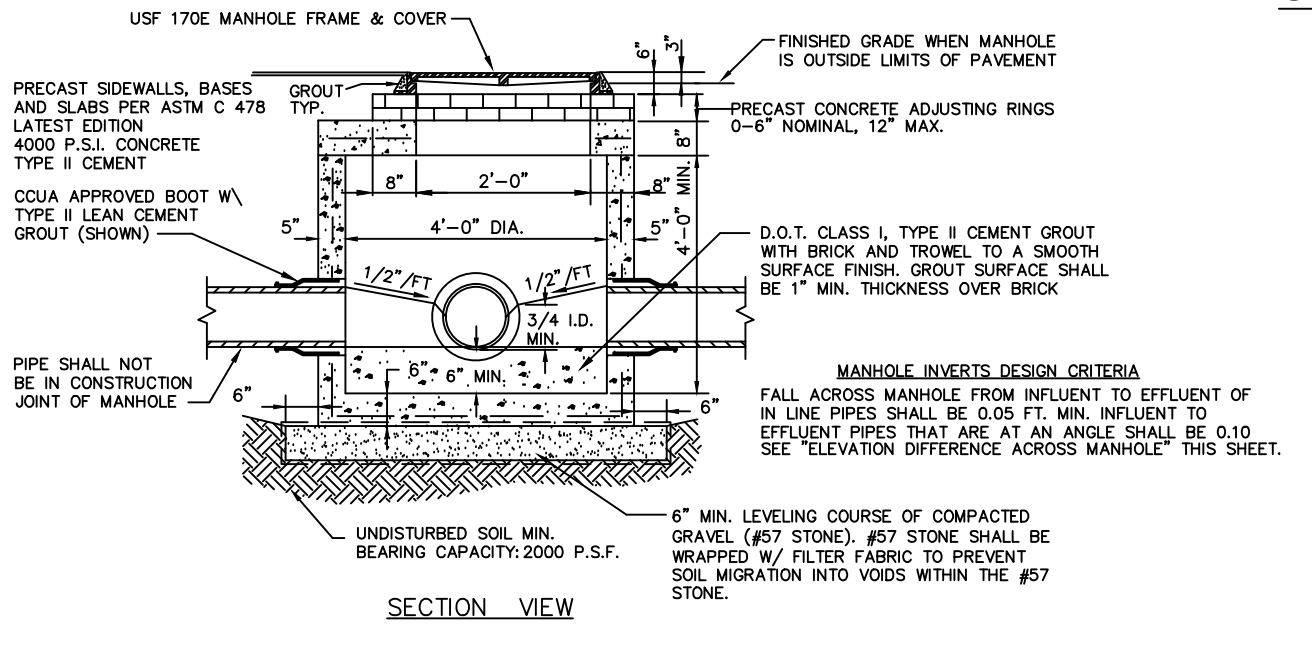
- NOTE: 1. THIS MANHOLE AND THE NEXT TWO MANHOLES DOWNSTREAM (AS REQUIRED BY UTILITY) ARE TO HAVE POLYETHYLENE LINER AS MANUFACTURED BY STANDARD PRECAST CO. (AGRU SURE GRIP) OR APPROVED EQUAL.
2. IF CONNECTION IS BEING MADE TO AN EXISTING MANHOLE, THAT MANHOLE AND THE NEXT TWO MANHOLES DOWNSTREAM (AS 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 "SPLOSHOVER" WITHIN THE MANHOLE. 5'-0" MINIMUM DISTANCE FROM MANHOLE TO REDUCER MAY BE INCREASED TO ASSIST IN THIS VELOCITY REDUCTION.



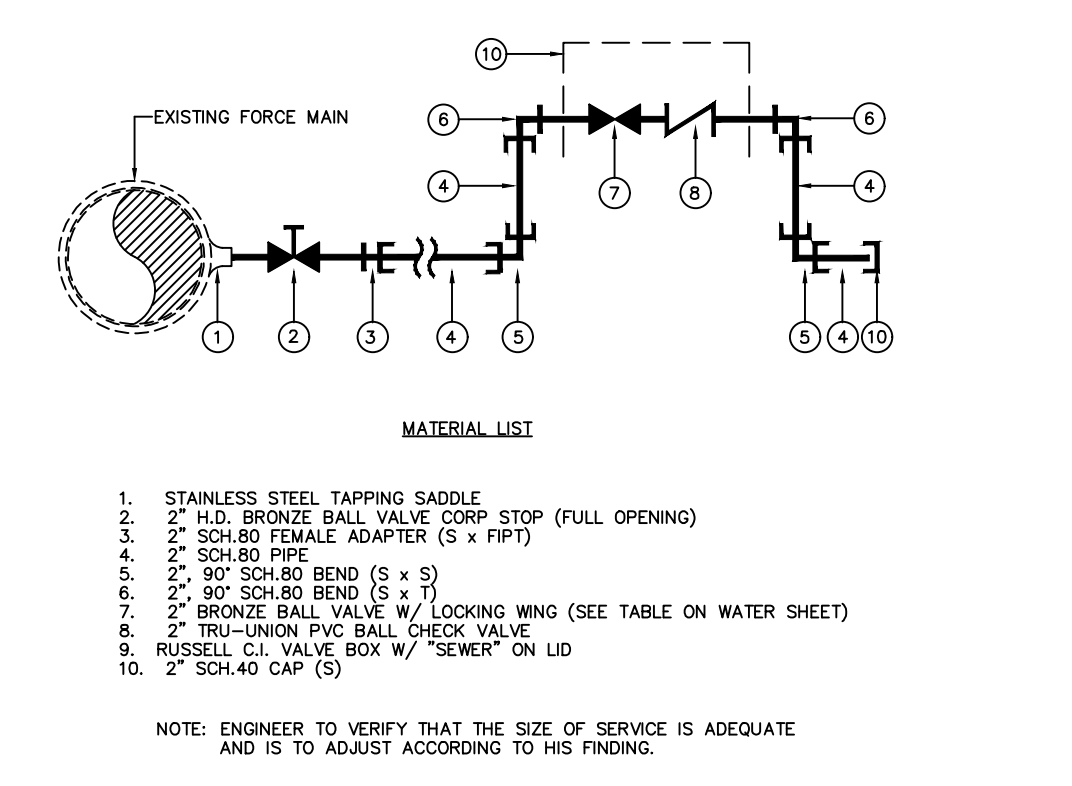
SANITARY SEWER MANHOLE



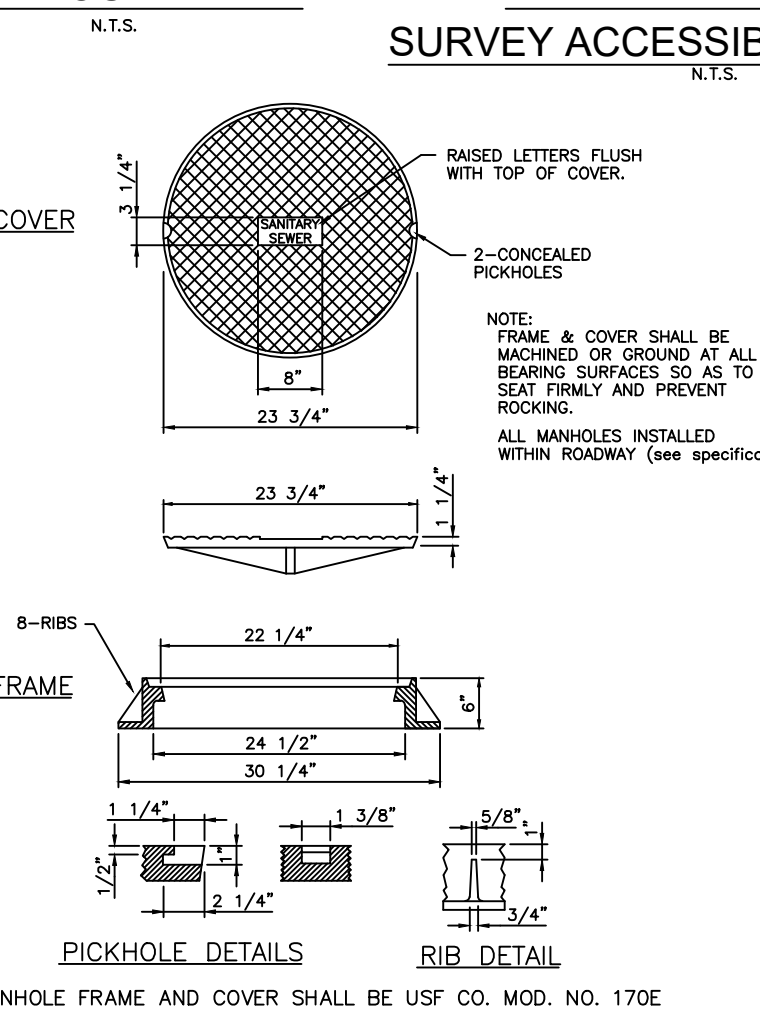
STANDARD STUBOUT SURVEY ACCESSIBLE CLEANOUT



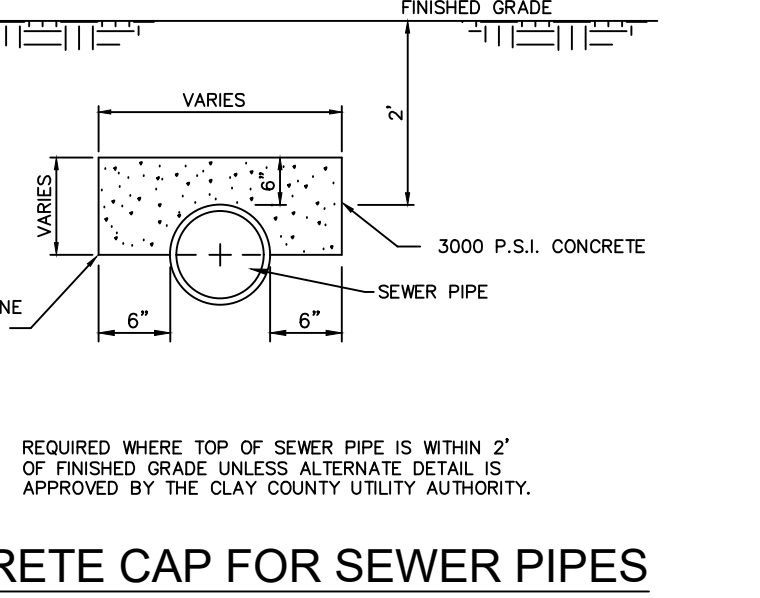
SHALLOW SANITARY SEWER MANHOLE



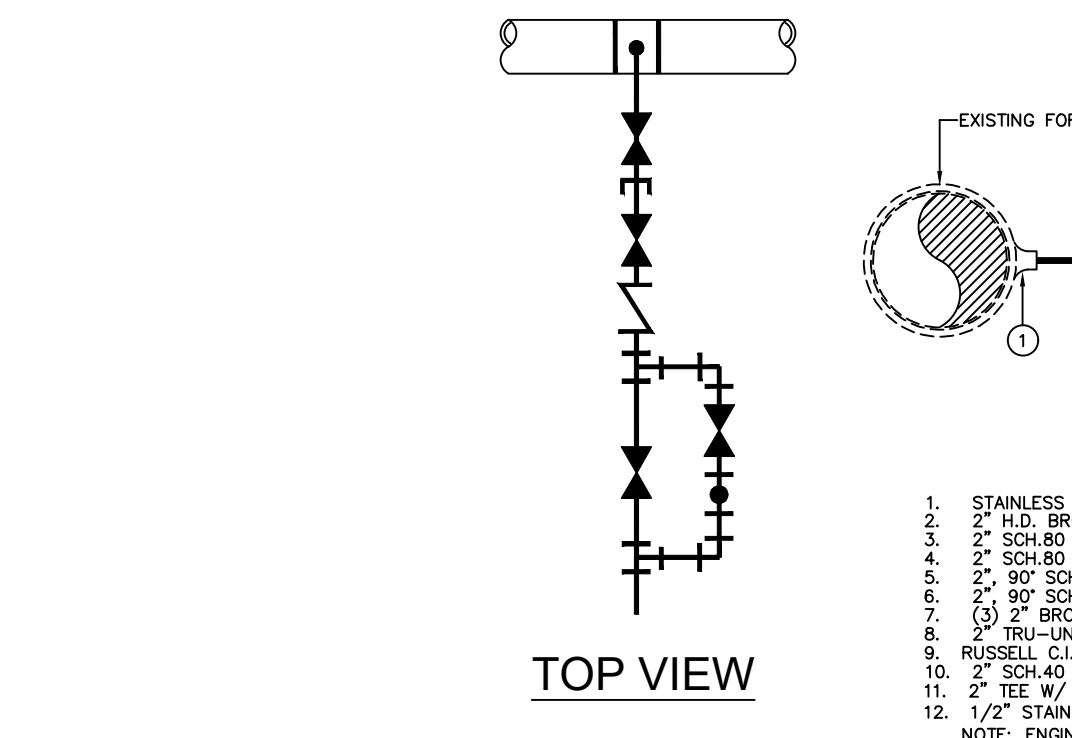
2" SEWAGE FORCE MAIN MANIFOLD SERVICE CONNECTION DETAIL FOR MEDIUM TO HIGH PRESSURE CONNECTION SYSTEMS



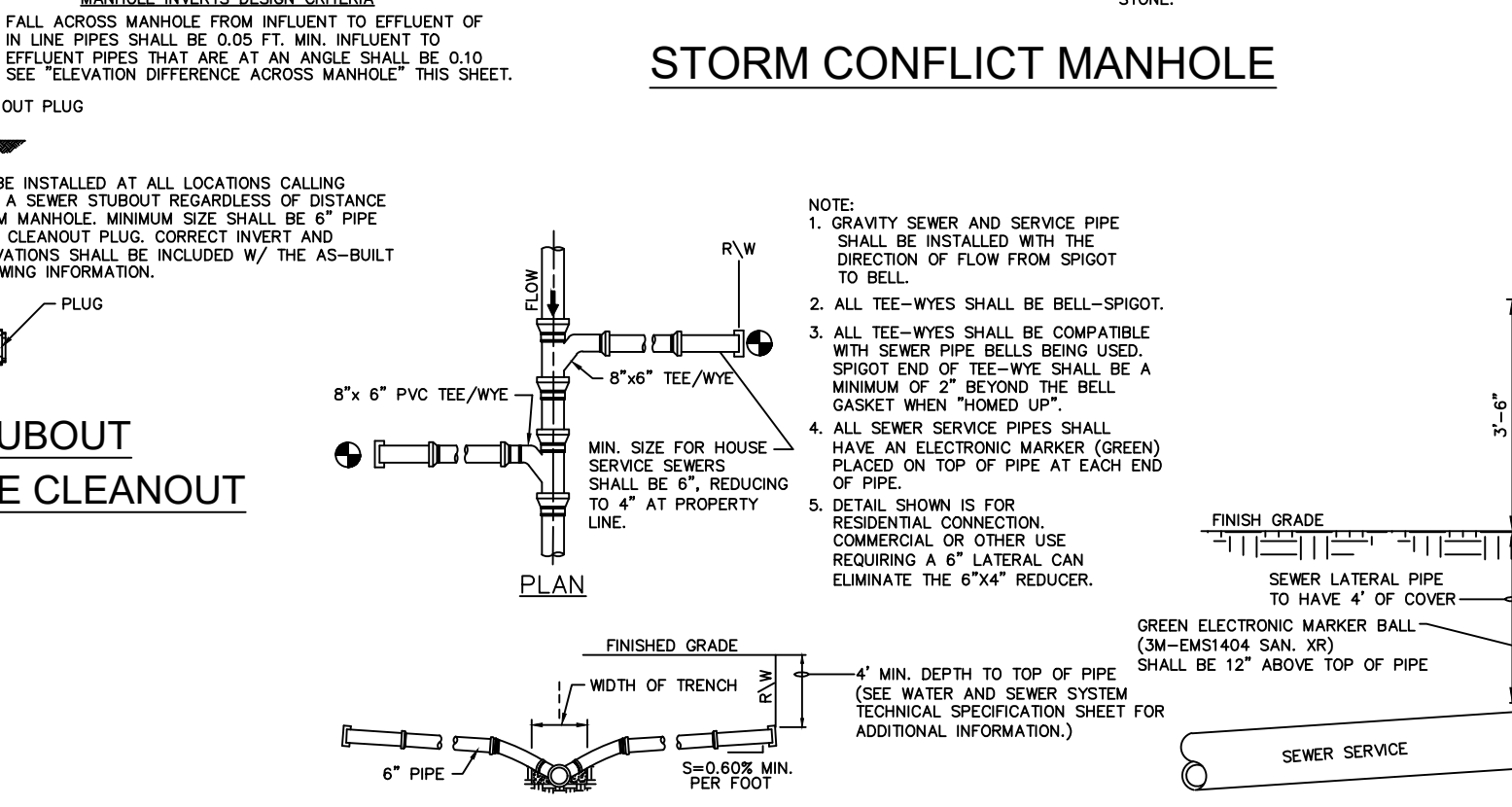
SANITARY SEWER MANHOLE FRAME & COVER



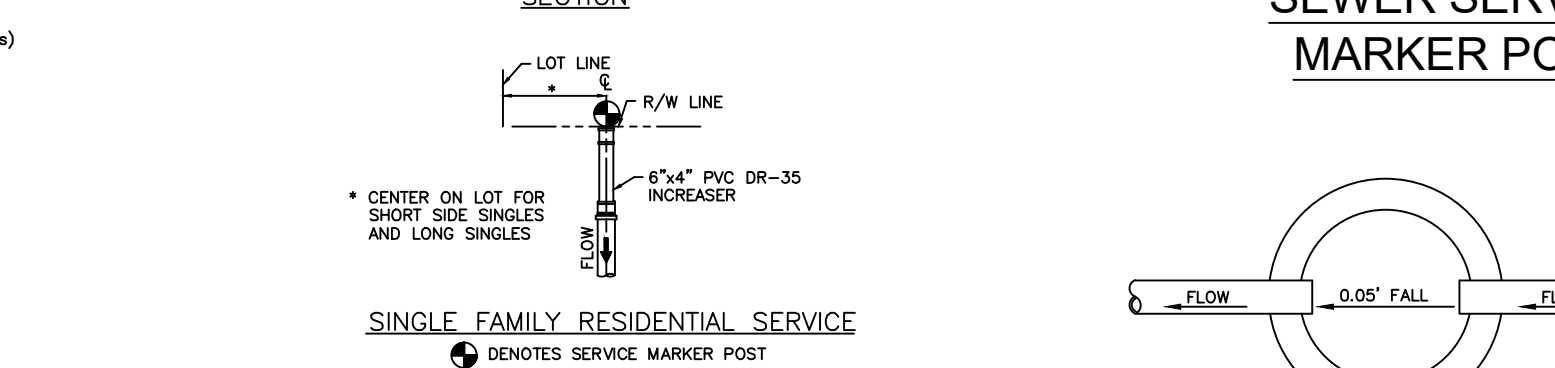
CONCRETE CAP FOR SEWER PIPES



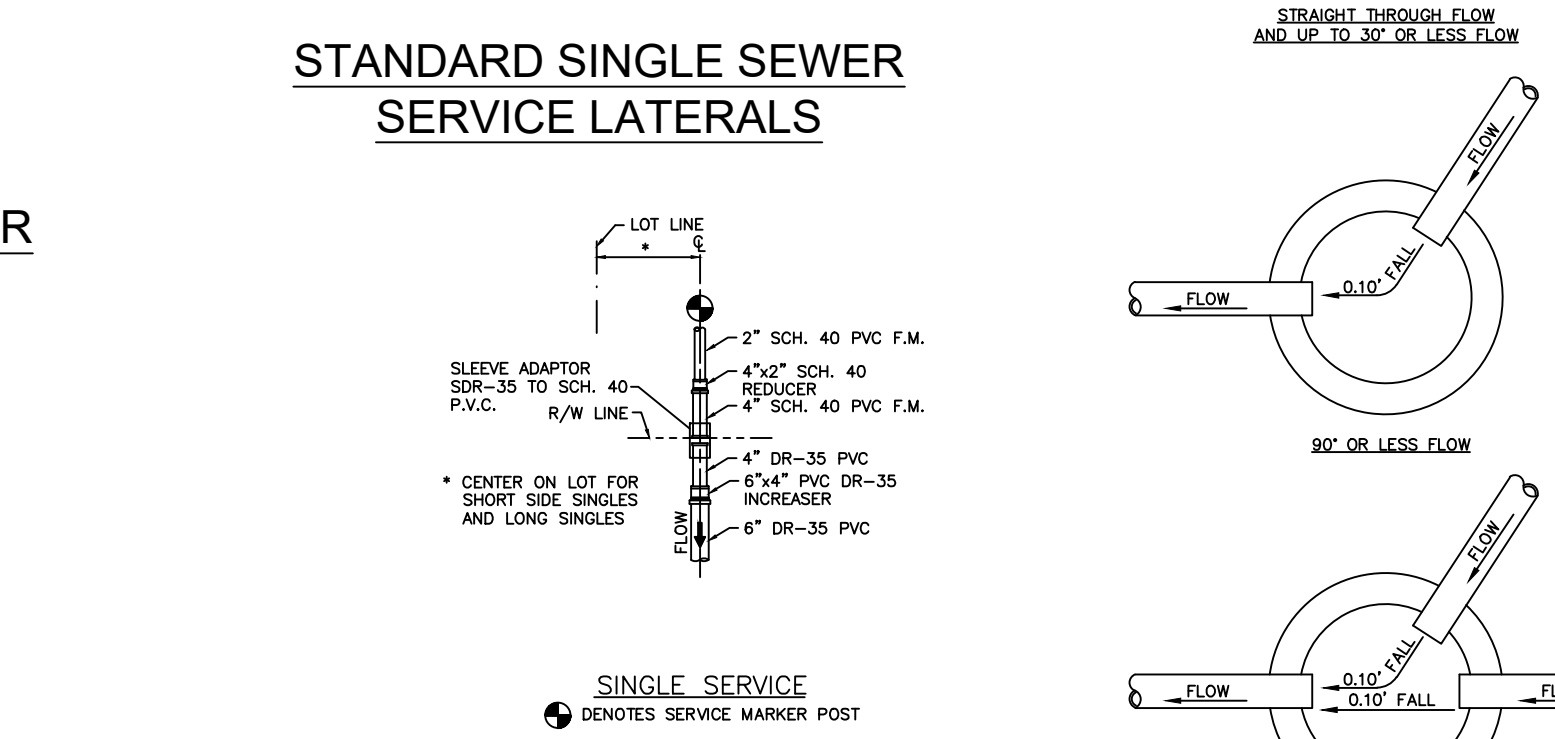
" 2" SEWAGE FORCE MAIN MANIFOLD SERVICE CONNECTION / WITH PRESSURE GAUGE FITTING / FOR LOW PRESSURE RECEIVING SYSTEMS FOR CREATING ARTIFICIAL HEAD PRESSURE



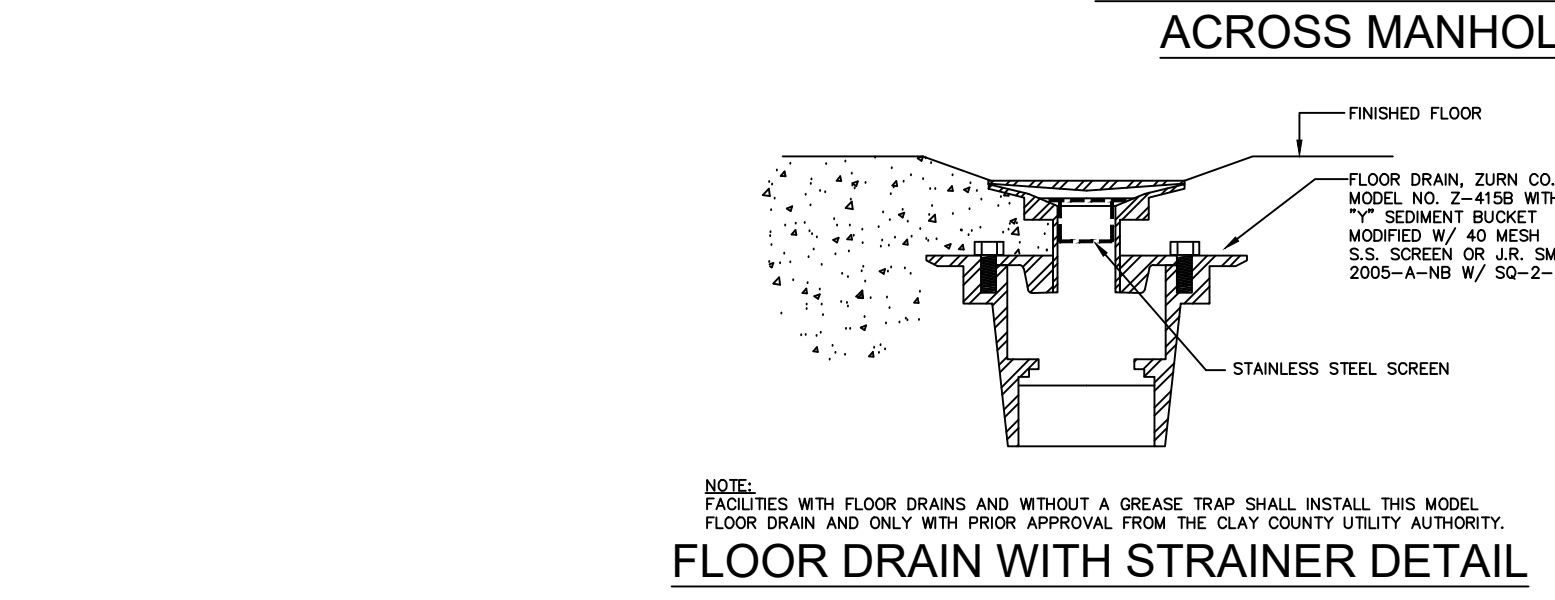
STORM CONFLICT MANHOLE



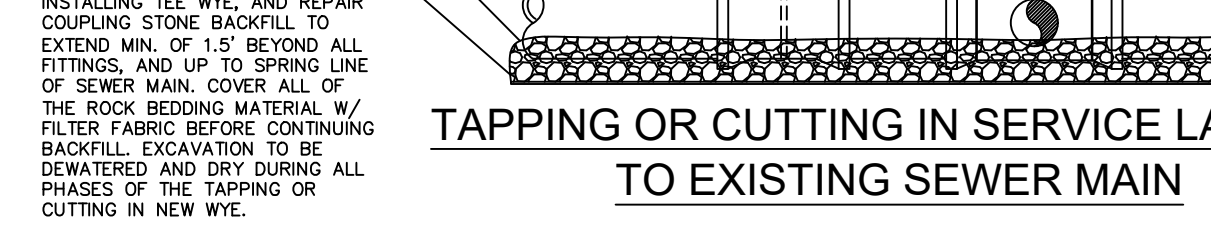
SEWER SERVICE MARKER POST



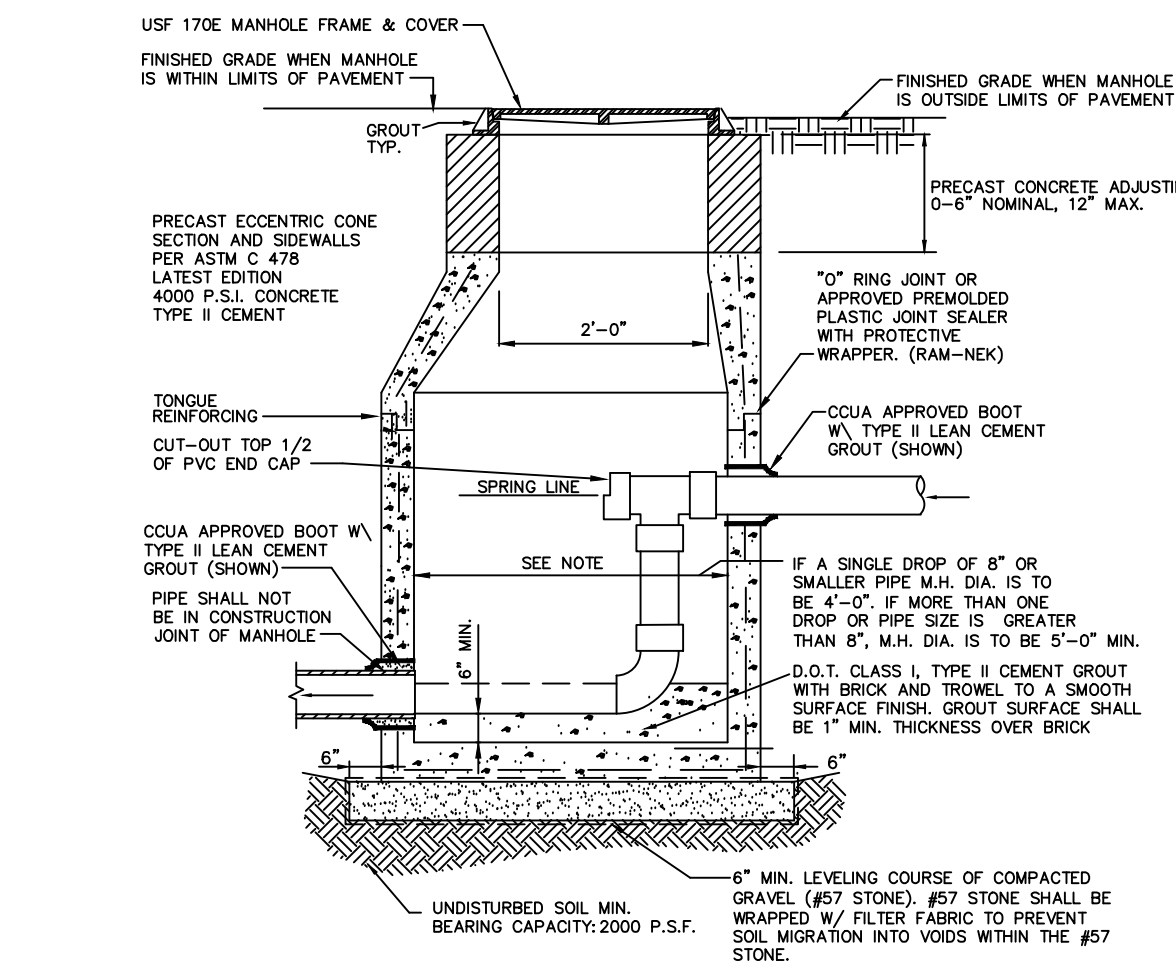
STANDARD SINGLE SEWER SERVICE LATERALS



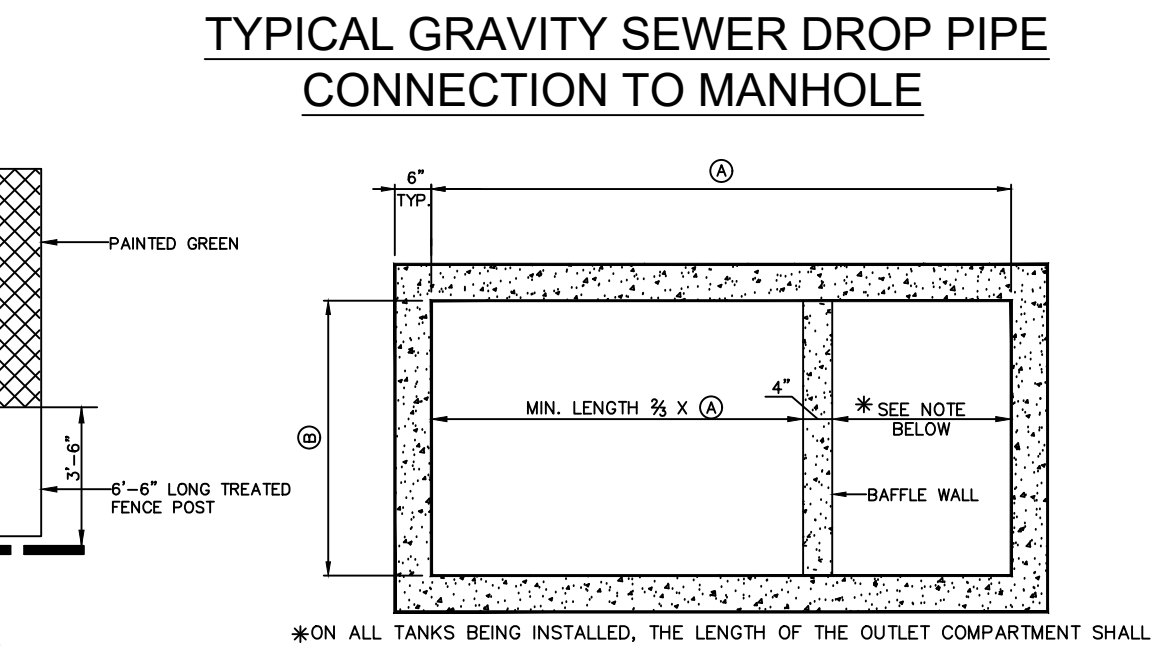
GRINDER PUMP STATION FORCE MAIN CONNECTION TO SINGLE GRAVITY SERVICE



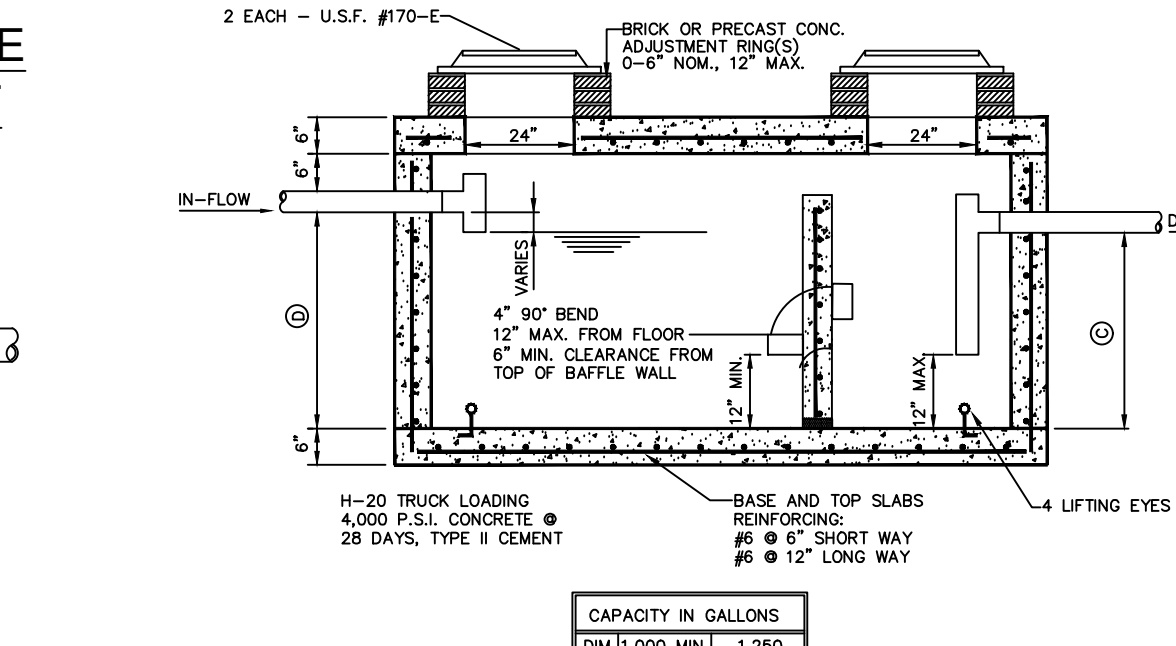
FLOOR DRAIN WITH STRAINER DETAIL



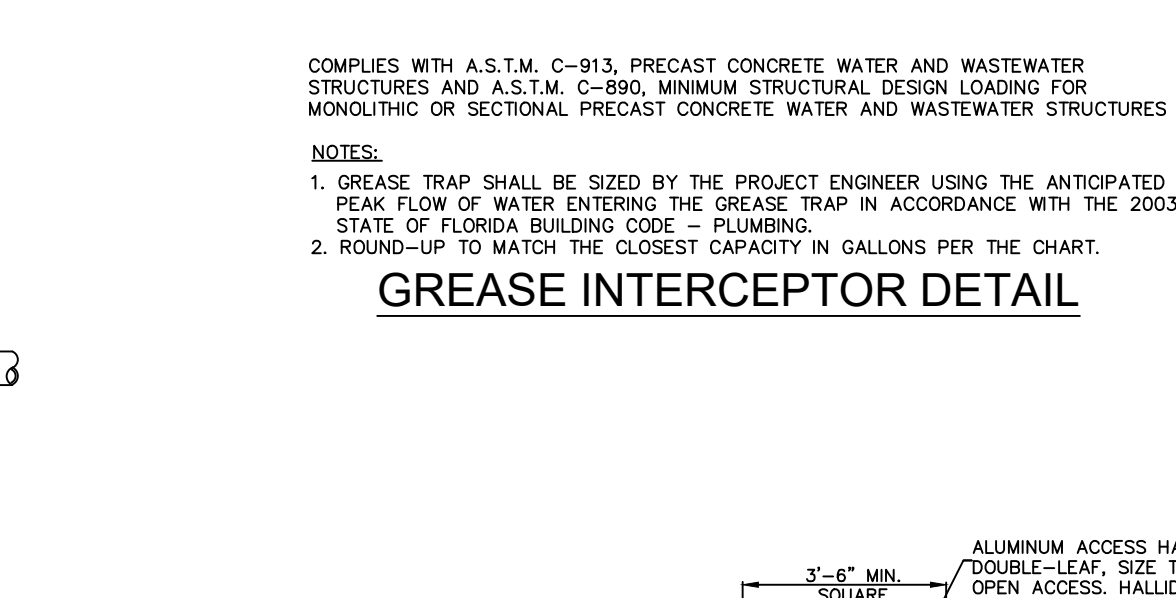
TYPICAL GRAVITY SEWER DROP PIPE CONNECTION TO MANHOLE



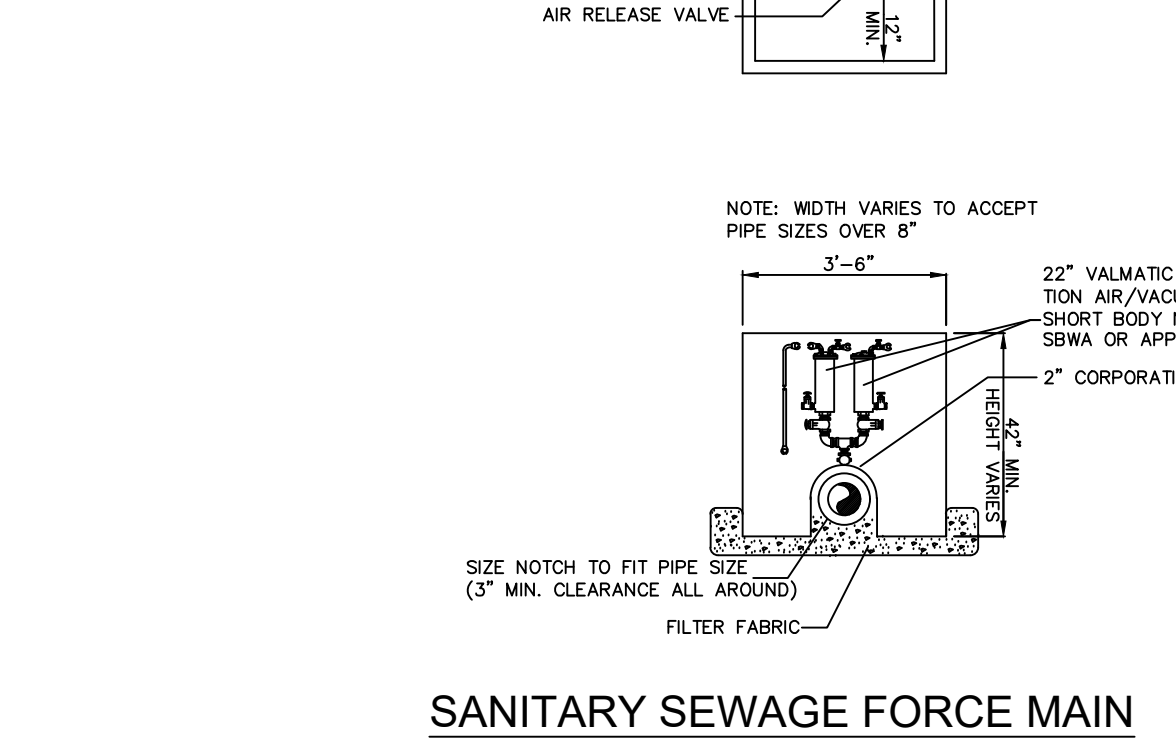
SADDLE MANHOLE DETAIL SECTION



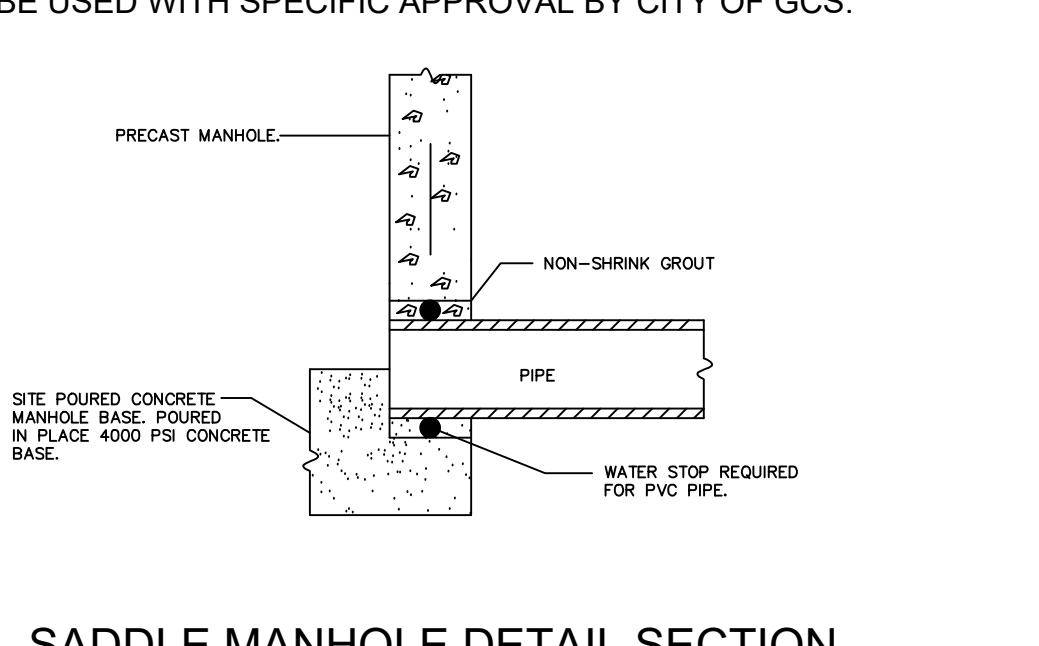
GREASE INTERCEPTOR DETAIL



ELEVATION DIFFERENCE ACROSS MANHOLE



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

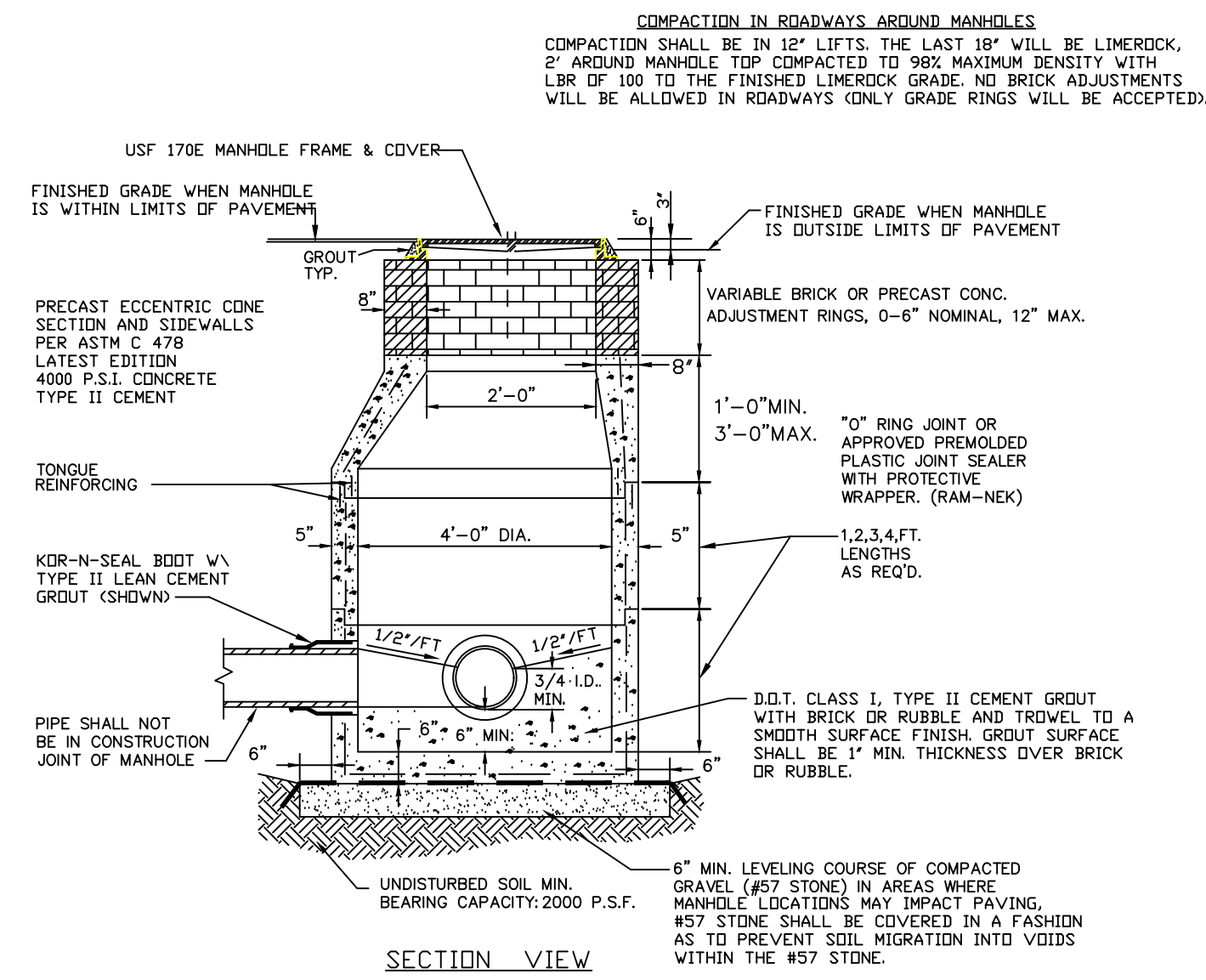


SANITARY SEWAGE FORCE MAIN AIR RELEASE VALVE VAULT TO BE USED ON ALL PIPES 10" OR SMALLER

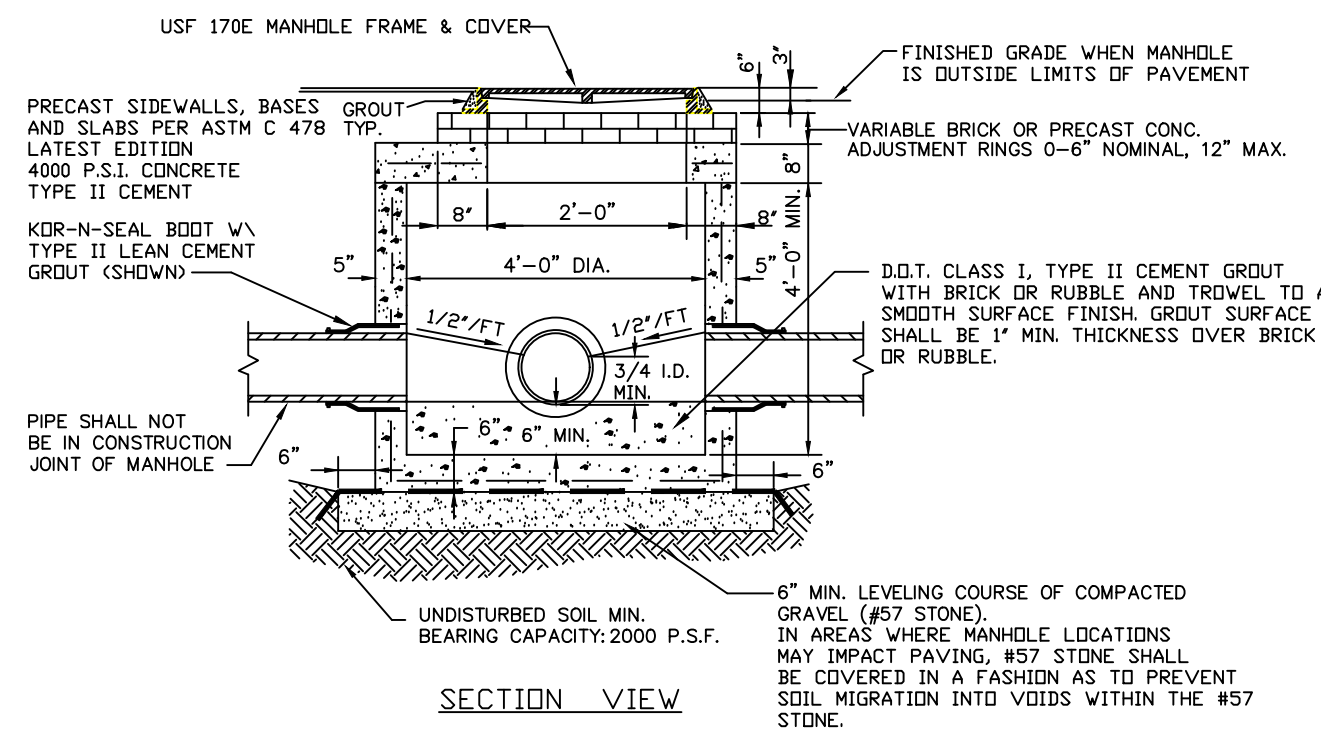
PROJECT: CITY OF GREEN COVE SPRINGS 321 WALNUT STREET GREEN COVE SPRINGS, FLORIDA 32043
 STANDARD SEWER SYSTEM DETAILS
 ACAD FILE NAME: SEWSTAND.DWG
 SHEET NO. C19
 1 OF 1

DESIGN	DATE	NO.	BY
CHKD	DATE	NO.	BY
APPR	DATE	NO.	BY

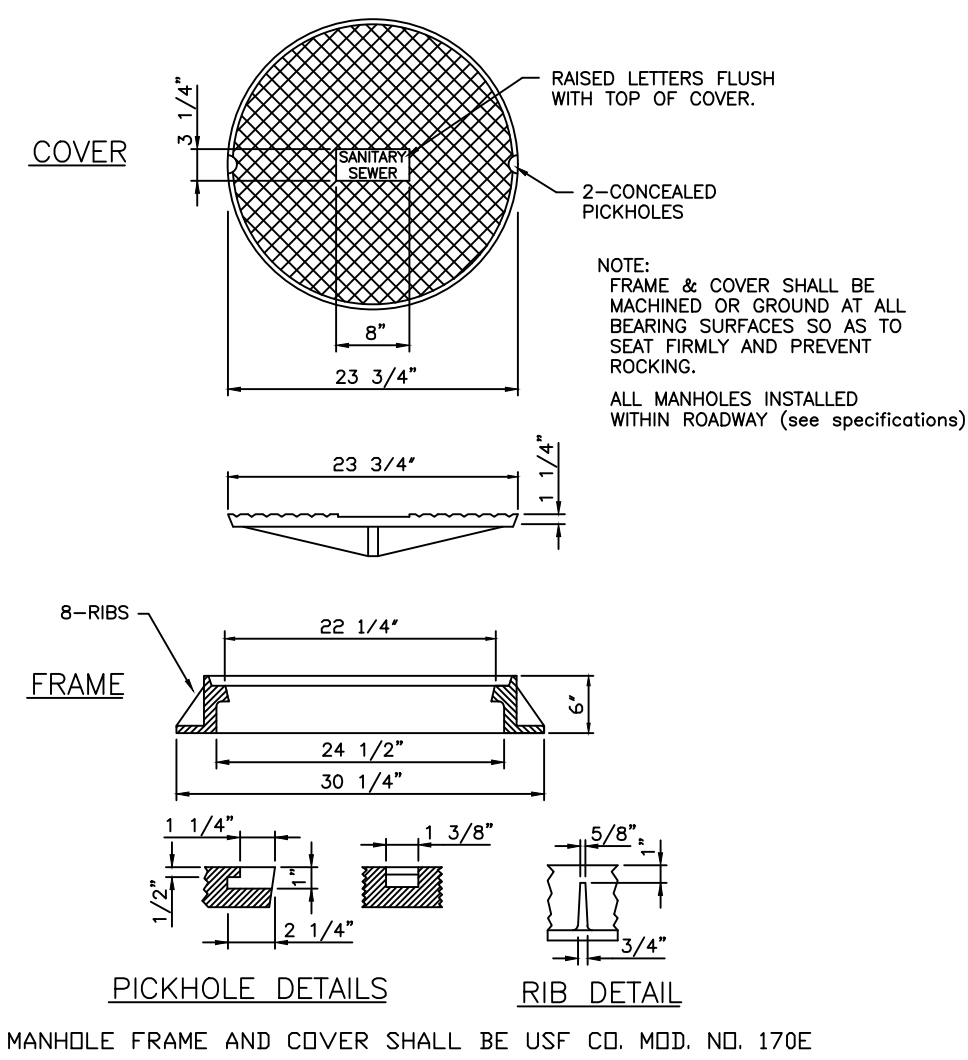
REVISION DESCRIPTION
 1. FEB/2016 SS GENERAL UPDATE



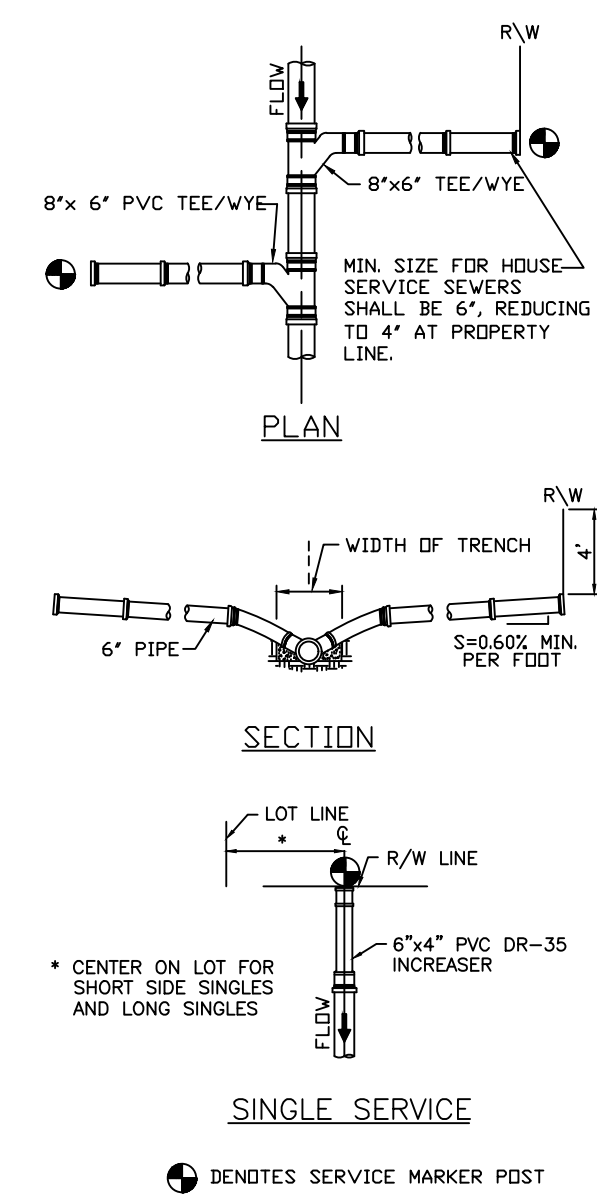
SANITARY SEWER MANHOLE



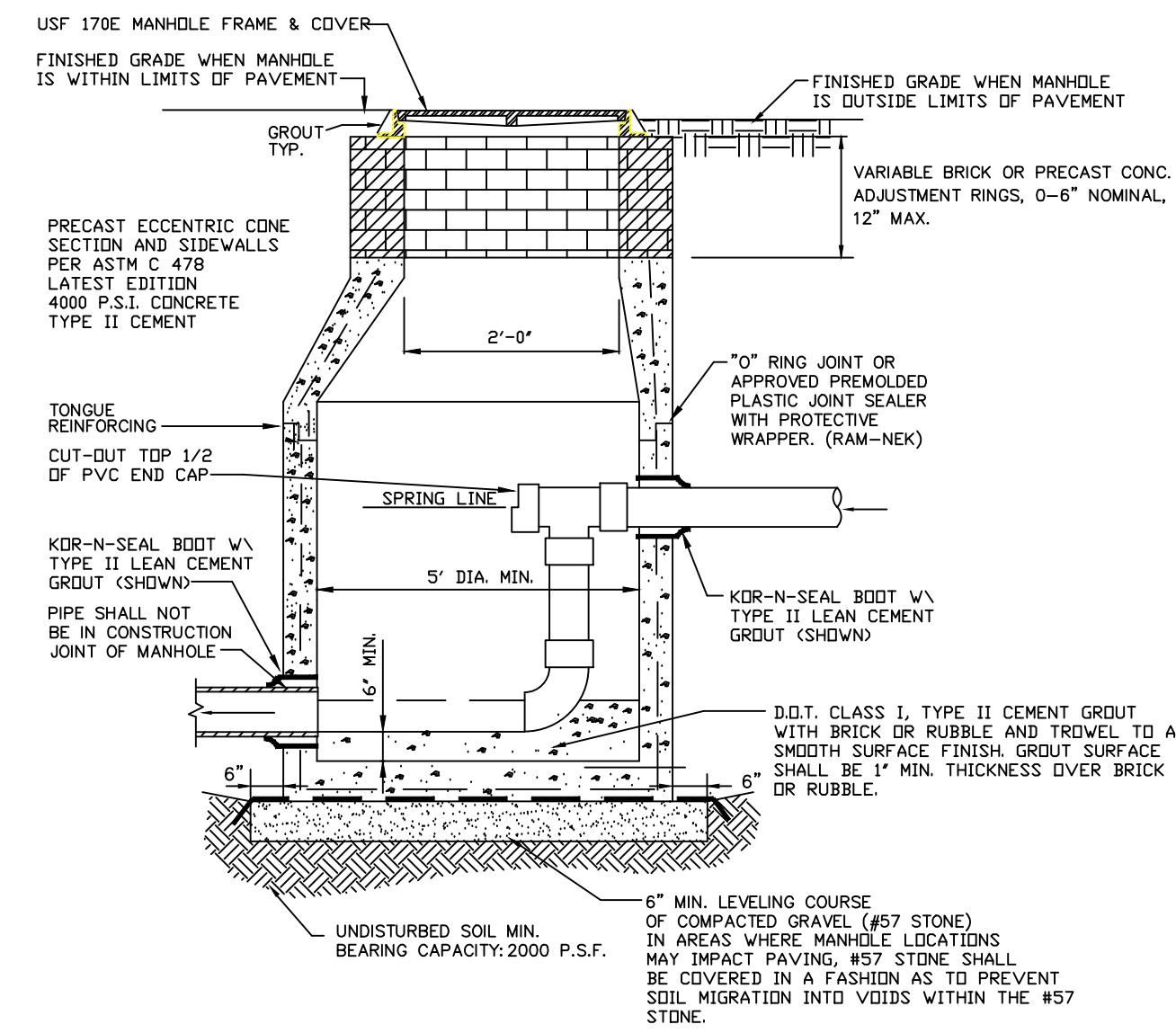
SHALLOW SANITARY SEWER MANHOLE



SANITARY SEWER MANHOLE FRAME + COVER

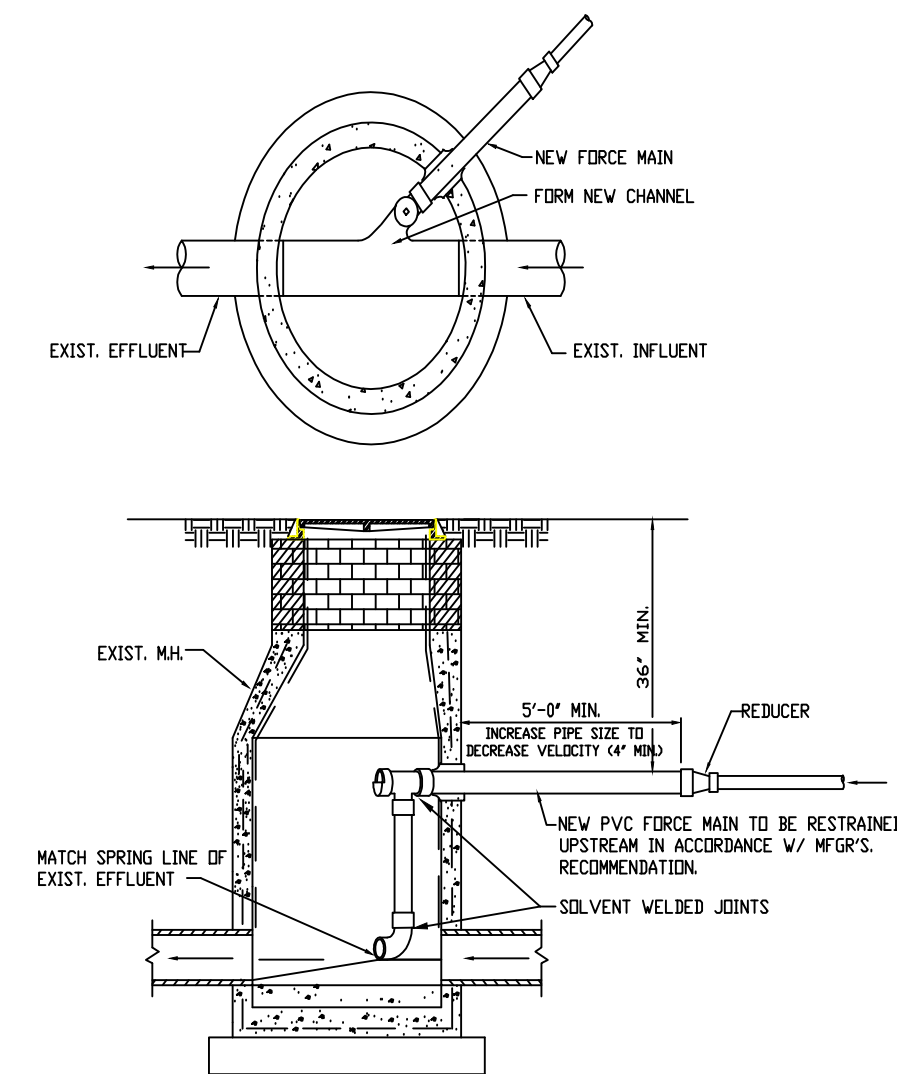


STANDARD SINGLE SEWER SERVICE LATERALS



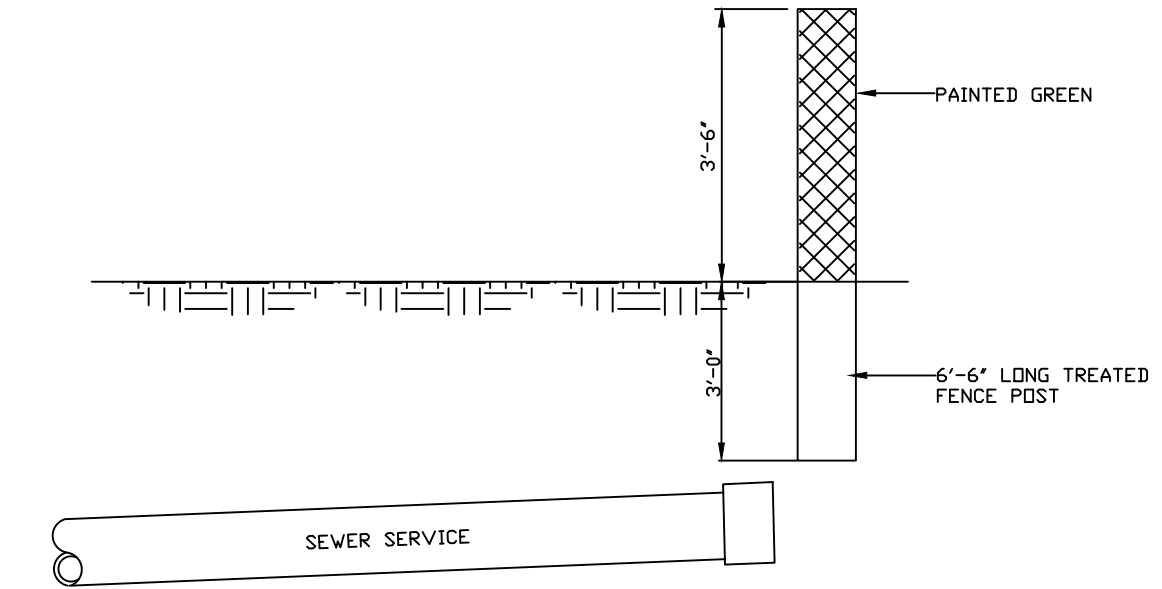
NOTE: FOR ADDITIONAL MANHOLE SPECIFICATIONS, SEE "SANITARY SEWER MANHOLE" DETAIL THIS SHEET. MAXIMUM ALLOWABLE DIFFERENCE IN INVERT ELEVATION WITHOUT INTERNAL DROP CONNECTION IS 24".

TYPICAL GRAVITY SEWER DROP PIPE CONNECTION TO MANHOLE

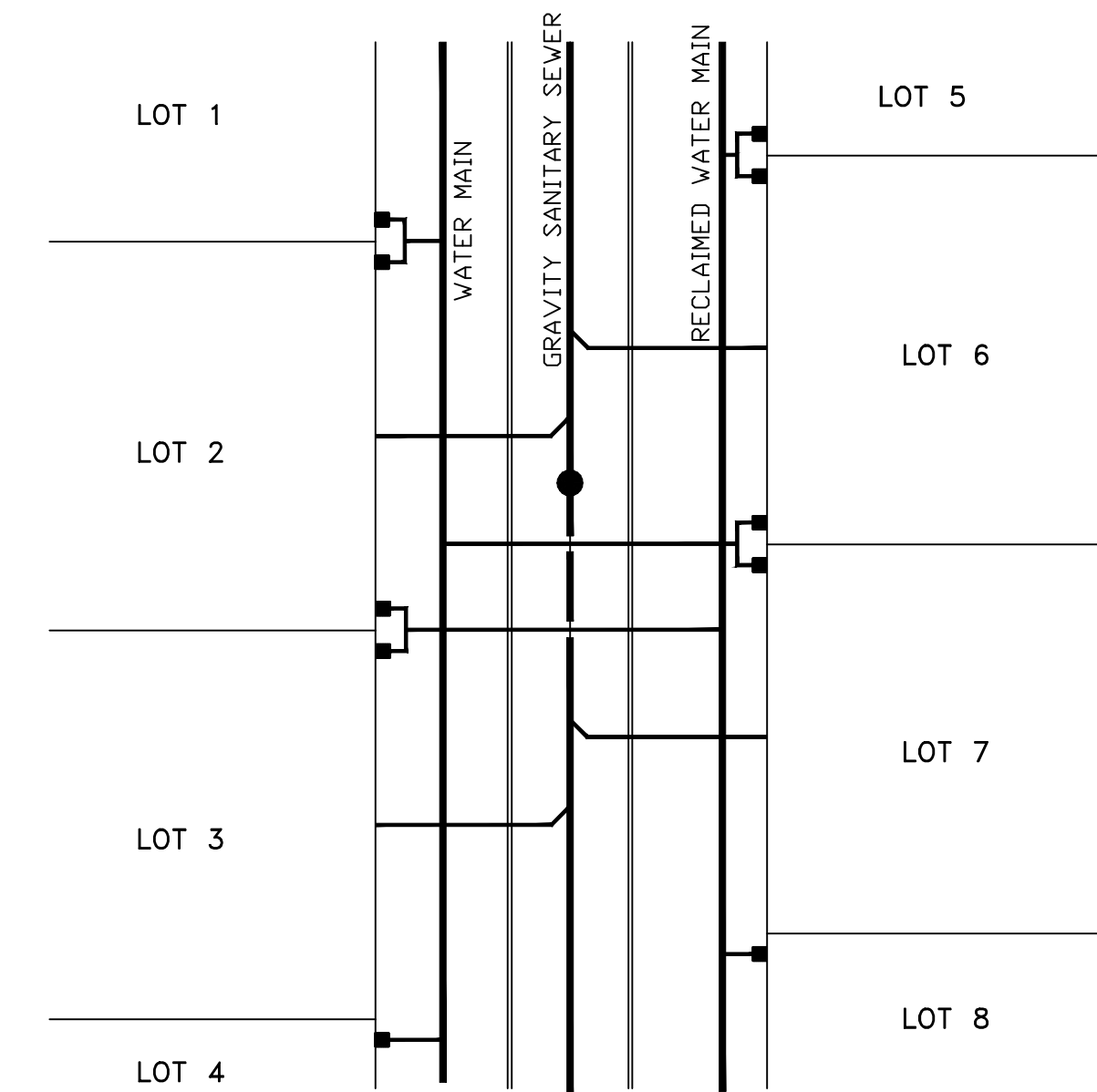


TYP. FORCE MAIN CONNECTION TO MANHOLE

- 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.



SEWER SERVICE MARKER POST



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

GRAVITY SEWER SERVICE DETAILS

REVISION DESCRIPTION
 1 FEB 2016 SS GENERAL UPDATES
 DATE BY

DRWN CHKD APRV DATE NO