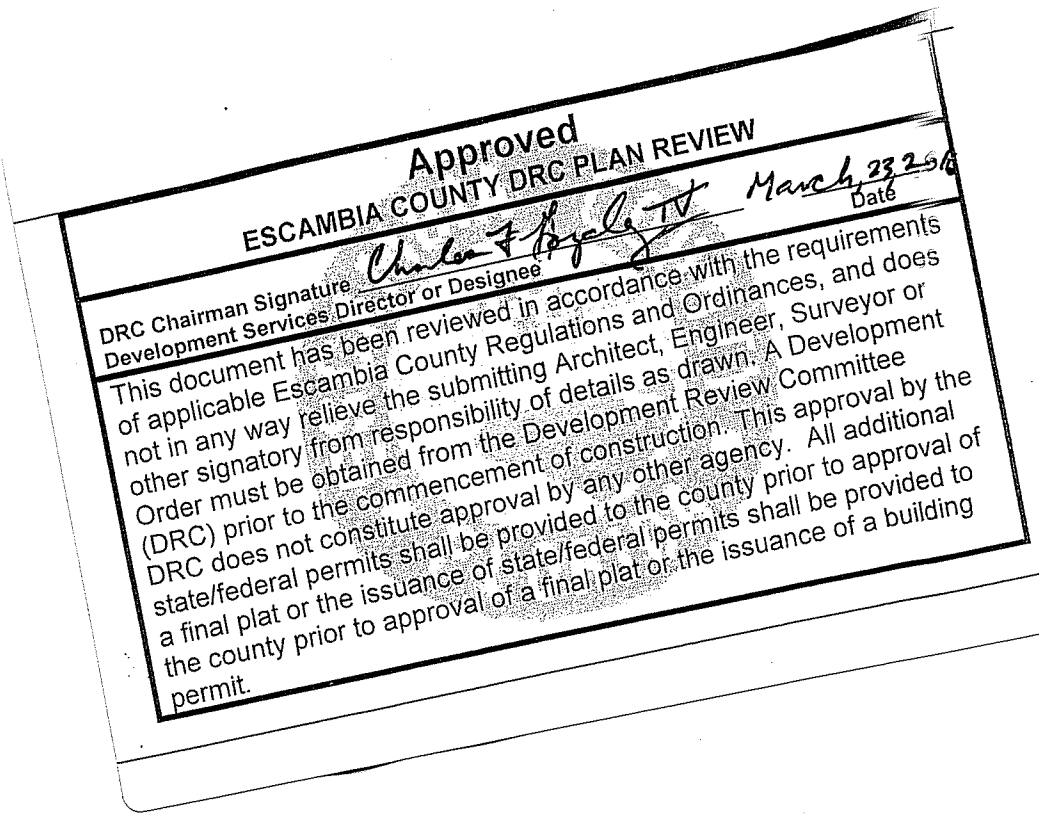


SITE DEVELOPMENT PLANS



HONDA PENSACOLA

6675 PENSACOLA BOULEVARD
PENSACOLA, FL 32505



UTILITY AGENCIES:

ELECTRIC

GULF POWER
1 ENERGY PLACE
PENSACOLA, FL 32520
CONTACT: PAUL CAZENAVETT
TEL: (850) 429-2818

GAS

PENSACOLA ENERGY
1625 ATWOOD DRIVE
PENSACOLA, FL 32514
CONTACT: LARRY HUNTER
TEL: (850) 436-5050

WATER

EMERALD COAST UTILITIES AUTHORITY
9255 STURDEVANT STREET
PENSACOLA, FL 32514
CONTACT: BRANDON KNIGHT
TEL: (850) 969-6650

SEWER

EMERALD COAST UTILITIES AUTHORITY
9255 STURDEVANT STREET
PENSACOLA, FL 32514
CONTACT: BRANDON KNIGHT
TEL: (850) 969-6650

GOVERNING AGENCIES:

PLANNING AND ZONING

ESCAMBIA COUNTY
PLANNING AND ZONING
3363 WEST PARK PLACE
PENSACOLA, FL 32505
CONTACT: BARBARA WINNS
TEL: (850) 595-3584

EROSION CONTROL & WATER QUALITY

FLORIDA DEP
2600 BLAIR STONE RD.
TALLAHASSEE, FL 32399
CONTACT: SHAWN HAMILTON
TEL: (850) 595-8300

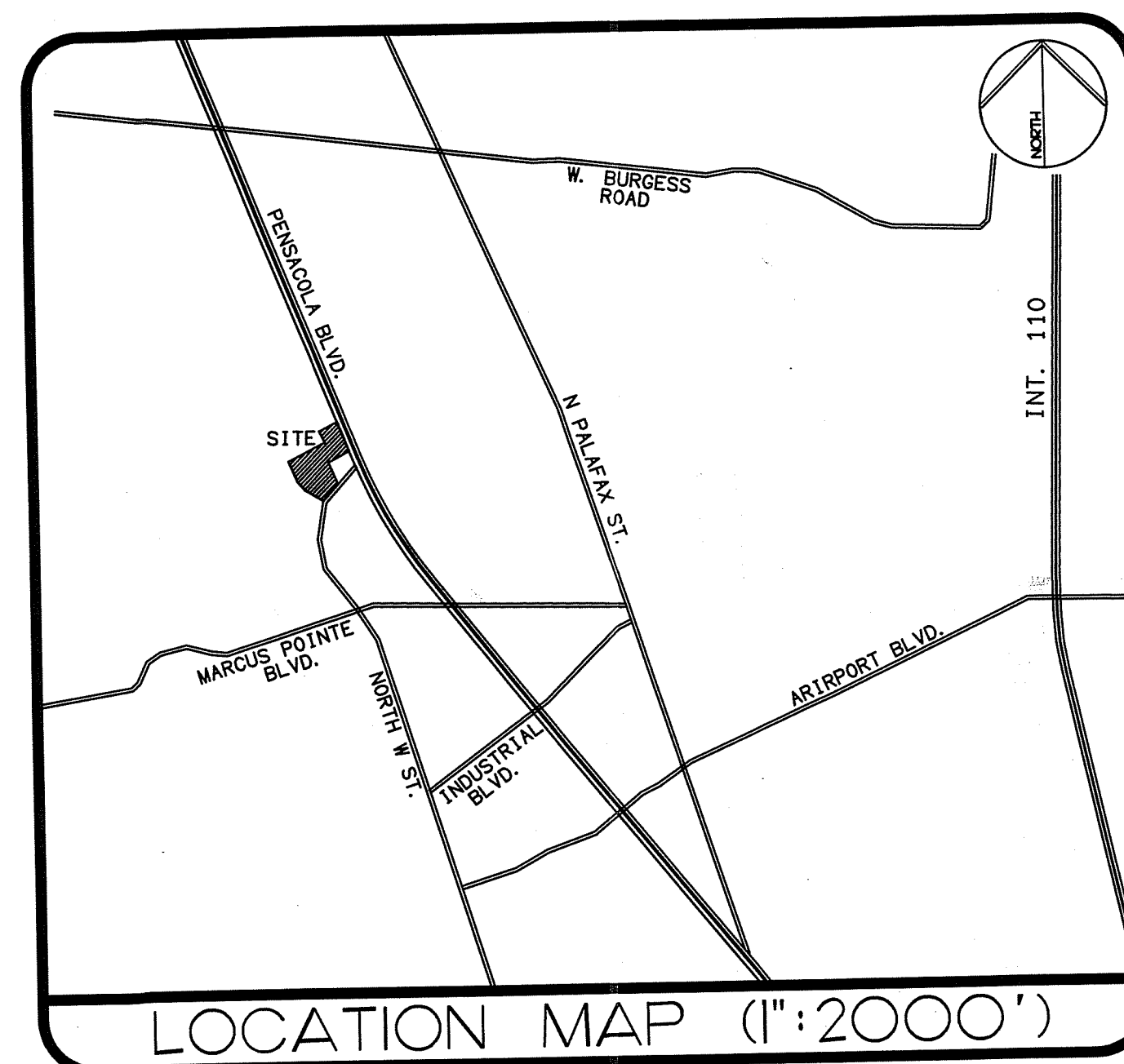
FLORIDA DEPT. OF TRANSPORTATION

DISTRICT THREE
MILTON OPERATIONS
6025 OLD BAGDAD HIGHWAY
MILTON, FL 32583
CONTACT: HEIDI TAYLOR
TEL: (850) 981-3000

BROAD SPECTRUM INFRASTRUCTURE
3050 COPTER ROAD
PENSACOLA, FL 32514
CONTACT: JAMIE NICHOLSON, PE
TEL: (850) 494-1859

STORMWATER

ESCAMBIA COUNTY
DEVELOPMENT SERVICES DEPARTMENT
3363 WEST PARK PLACE
PENSACOLA, FL 32505
CONTACT: ROZA SESTNOV
TEL: (850) 595-3411



SHEET INDEX

NO.	TITLE
1	COVER SHEET
2	SURVEY PLAN
3	DEMOLITION PLAN
4	SITE PLAN
5	SITE DETAILS
6	SITE DETAILS
7	SITE DETAILS
8	UTILITY PLAN
9	UTILITY DETAILS
10	GRADING PLAN
11	STORM PLAN
12	STORM PROFILES
13	STORM PROFILES
14	STORM DETAILS
15	EROSION CONTROL PLAN PH. 1
16	EROSION CONTROL PLAN PH. 2
17	EROSION CONTROL DETAILS
18	EROSION CONTROL DETAILS
19	LANDSCAPE PLAN

REVISIONS:

1 2016-03-02 UTILITY/STORM REVISIONS

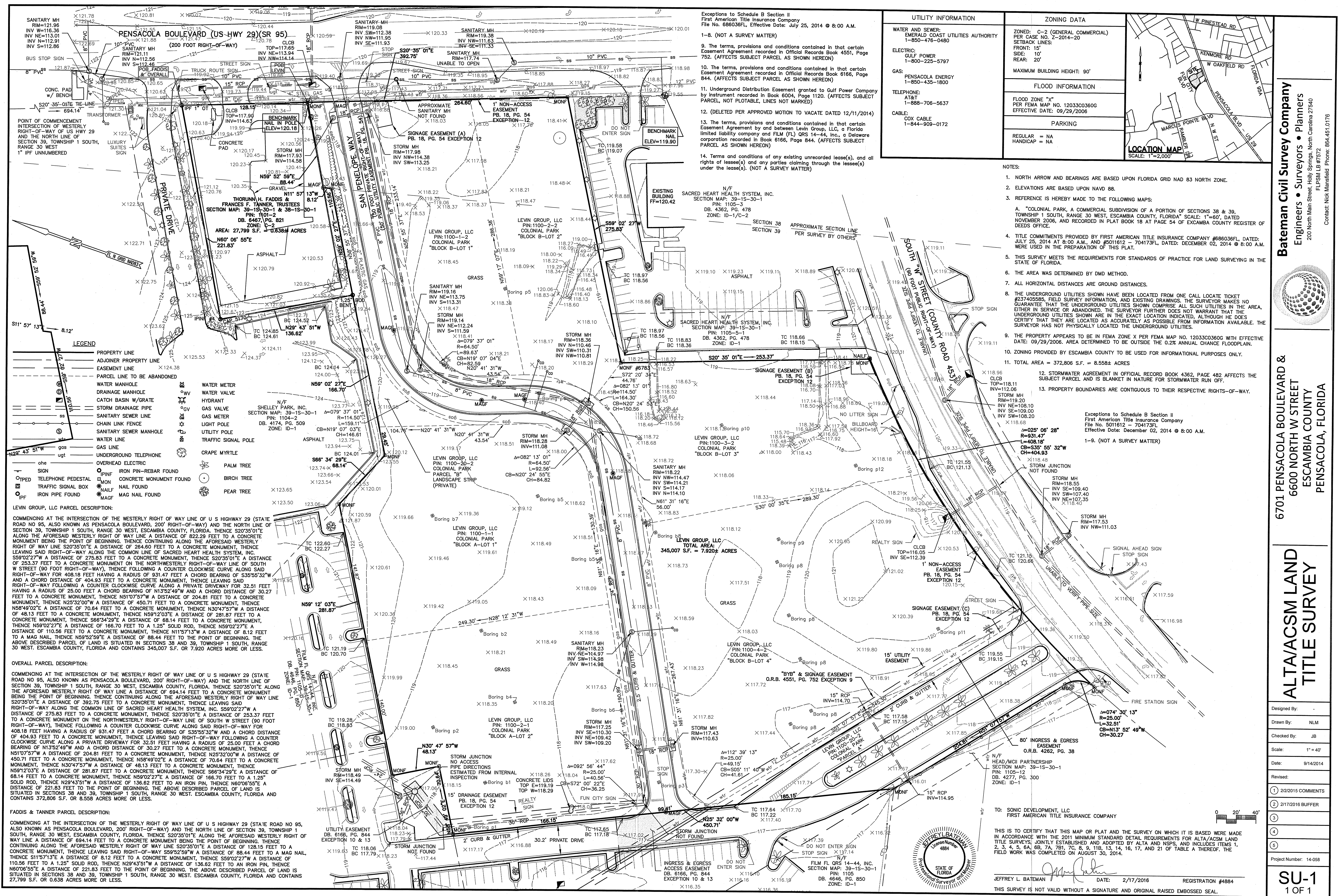
ENGINEER:

FREELAND AND KAUFFMAN, INC.
209 WEST STONE AVENUE
GREENVILLE, S.C. 29609
TEL: (864) 233-5497
FAX: (864) 233-8915
FL C.O.A.: 25898

OWNER/APPLICANT:

SONIC DEVELOPMENT, LLC
4401 COLWICK ROAD
CHARLOTTE, NC 28211
TEL: 704-566-3980
ATTN: MARTIN WALSH

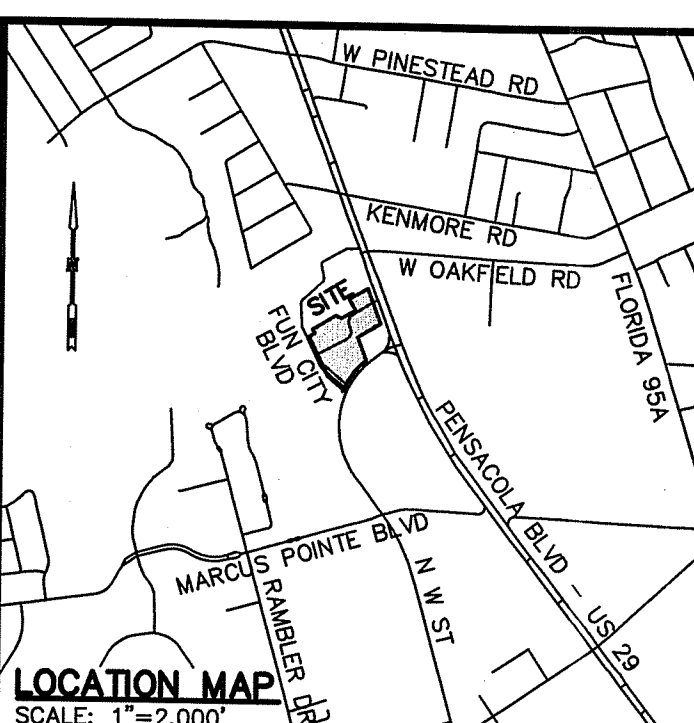
CONTRACTOR IS RESPONSIBLE
FOR ANY AND ALL TESTING
AS-BUILT DRAWINGS AND/OR
CERTIFICATIONS REQUIRED BY THE
GOVERNING AGENCIES.



Exceptions to Schedule B Section II
First American Title Insurance Company
File No. 686036FL, Effective Date: July 25, 2014 @ 8:00 A.M.
1-8. (NOT A SURVEY MATTER)
9. The terms, provisions and conditions contained in that certain Easement Agreement recorded in Official Records Book 4551, Page 752, (AFFECTS SUBJECT PARCEL AS SHOWN HEREON)
10. The terms, provisions and conditions contained in that certain Easement Agreement recorded in Official Records Book 6166, Page 844, (AFFECTS SUBJECT PARCEL AS SHOWN HEREON)
11. Underground Distribution Easement granted to Gulf Power Company by instrument recorded in Book 6166, Page 1120, (AFFECTS SUBJECT PARCEL, NOT PLOTTABLE, LINES NOT MARKED)
12. (DELETED PER APPROVED MOTION TO VACATE DATED 12/11/2014)
13. The terms, provisions and conditions contained in that certain Easement Agreement by and between Levin Group, LLC, a Florida limited liability company and FILM (FL) QRS 14-44, Inc., a Delaware corporation recorded in Book 6166, Page 844, (AFFECTS SUBJECT PARCEL AS SHOWN HEREON)
14. Terms and conditions of any existing unrecorded lease(s), and all rights of lease(s) and other parties claiming through the lease(s) under the lease(s). (NOT A SURVEY MATTER)

UTILITY INFORMATION	
WATER AND SEWER:	EMERALD COAST UTILITIES AUTHORITY 1-850-476-0480
ELECTRIC:	GULF POWER 1-800-225-5797
GAS:	PENSACOLA ENERGY 1-850-435-1800
TELEPHONE:	AT&T 1-888-706-5637
CABLE:	COX CABLE 1-844-909-0172

ZONING DATA	
ZONED:	C-2 (GENERAL COMMERCIAL) PER FEA MAP NO. 12033C0360G SETBACK LINES: FRONT: 15' SIDE: 10' REAR: 20' MAXIMUM BUILDING HEIGHT: 90'
FLOOD INFORMATION	
FLOOD ZONE "X"	PER FEA MAP NO. 12033C0360G EFFECTIVE DATE: 09/29/2006
PARKING	
REGULAR	= NA
HANDICAP	= NA



- NOTES:
- NORTH ARROW AND BEARINGS ARE BASED UPON FLORIDA GRID NAD 83 NORTH ZONE.
 - ELEVATIONS ARE BASED UPON NAVD 88.
 - REFERENCE IS HEREBY MADE TO THE FOLLOWING MAPS:
A. "COLONIAL PARK, A COMMERCIAL SUBDIVISION OF A PORTION OF SECTIONS 38 & 39, TOWNSHIP 1 SOUTH, RANGE 30 WEST, ESCAMBIA COUNTY, FLORIDA" SCALE: 1"=60', DATED NOVEMBER 2008, AND RECORDED IN PLAT BOOK 18 AT PAGE 54 OF ESCAMBIA COUNTY REGISTER OF DEEDS OFFICE.
 - TITLE COMMITMENTS PROVIDED BY FIRST AMERICAN TITLE INSURANCE COMPANY #686036FL, DATED: JULY 25, 2014 AT 8:00 A.M., AND #5011612 - 704173FL, DATED: DECEMBER 02, 2014 @ 8:00 A.M. WERE USED IN THE PREPARATION OF THIS PLAT.
 - THIS SURVEY MEETS THE REQUIREMENTS FOR STANDARDS OF PRACTICE FOR LAND SURVEYING IN THE STATE OF FLORIDA.
 - THE AREA WAS DETERMINED BY DMD METHOD.
 - ALL HORIZONTAL DISTANCES ARE GROUND DISTANCES.
 - THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM ONE CALL LOCATE TICKET #237405585, FIELD SURVEY INFORMATION, AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
 - THE PROPERTY APPEARS TO BE IN FEMA ZONE X PER FEMA MAP NO. 12033C0360G WITH EFFECTIVE DATE: 09/29/2006. AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
 - ZONING PROVIDED BY ESCAMBIA COUNTY TO BE USED FOR INFORMATIONAL PURPOSES ONLY.
 - TOTAL AREA = 372,806 S.F. = 8.558± ACRES
 - STORMWATER AGREEMENT IN OFFICIAL RECORD BOOK 4362, PAGE 482 AFFECTS THE SUBJECT PARCEL AND IS BLANKET IN NATURE FOR STORMWATER RUN OFF.
 - PROPERTY BOUNDARIES ARE CONTIGUOUS TO THEIR RESPECTIVE RIGHTS-OF-WAY.

Exceptions to Schedule B Section II
First American Title Insurance Company
File No. 5011612 - 704173FL
Effective Date: December 02, 2014 @ 8:00 A.M.
1-9. (NOT A SURVEY MATTER)

Bateman Civil Survey Company
Engineers • Surveyors • Planners
200 North Main Street, Holly Springs, North Carolina 27540
FLPSM LB #7572
Contact: Nick Mansfield Phone: 864.451.0176

6701 PENSACOLA BOULEVARD &
6600 NORTH W STREET
ESCAMBIA COUNTY
PENSACOLA, FLORIDA

ALTA/ACSM LAND TITLE SURVEY

Designed By: _____
Drawn By: NLM
Checked By: JB
Scale: 1" = 40'
Date: 9/14/2014
Revised: _____
1) 2/2/2015 COMMENTS
2) 2/17/2016 BUFFER
3)
4)
5)
Project Number: 14-058
SU-1
1 OF 1

DEMOLITION GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL AND DISPOSING IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE GEOTECHNICAL REPORT.

2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING OF THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.

3. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES AND WILL BE REIMBURSED BY THE OWNER.

4. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK.

5. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE ANY ROAD RIGHT OF WAY DURING CONSTRUCTION.

6. PRIOR TO DEMOLITION OCCURRING, AND TO THE EXTENT POSSIBLE, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.

7. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE FENCING, LIGHTING, AND/OR STORM INLET STRUCTURES, OR ANY OTHER APPURTENANCES WHICH ARE TO REMAIN, THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. EXCEPT FOR MATERIALS DESIGNED TO BE RELOCATED ON THIS PLAN, ALL OTHER CONSTRUCTION MATERIALS SHALL BE NEW.

8. CONTRACTOR MAY LIMIT SAW-CUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.

9. DAMAGE TO ANY EXISTING STRUCTURE TO REMAIN SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

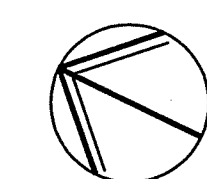
EXISTING LEGEND

wtr	WATER LINE
ss	SANITARY SEWER LINE
ugc	UNDERGROUND CABLE LINE
ugc	GAS LINE
12"	STORM SEWER (12")
TOP OF CURB & GUTTER	TOP OF CURB & GUTTER
EDGE OF ASPHALT	EDGE OF ASPHALT
FENCE	FENCE
STORM SEWER MAN-HOLE	STORM SEWER MAN-HOLE
SANITARY SEWER MAN-HOLE	SANITARY SEWER MAN-HOLE
STORM INLET	STORM INLET
POWER POLE	POWER POLE
LIGHT	LIGHT
FIRE HYDRANT	FIRE HYDRANT
WATER VALVE	WATER VALVE
SIGN	SIGN

EXISTING LEGEND (ITEMS TO BE REMOVED)

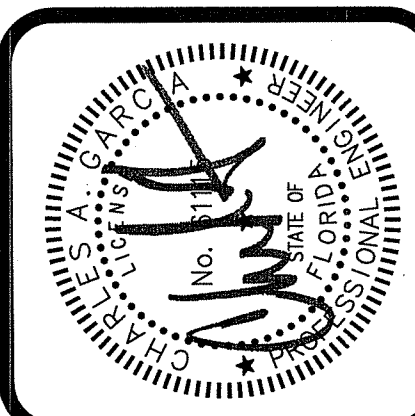
ohc	OVER-HEAD ELECTRIC LINE
ss	SANITARY SEWER LINE
gas	GAS LINE
wtr	WATER LINE
12"	SANITARY SEWER MAN-HOLE
EDGE OF ASPHALT	EDGE OF ASPHALT
POWER POLE	POWER POLE
SIGN	SIGN
STORM LINE	STORM LINE
ASPHALT	ASPHALT

DEMOLITION PLAN



40 20 0 40 80

FREELAND and KAUFFMAN, INC.
Engineers & Architects
209 West Stone Avenue
Greenville, South Carolina 29609
PHONE 864-233-5497
FAX 864-233-6995
FL C.O.A. 25698

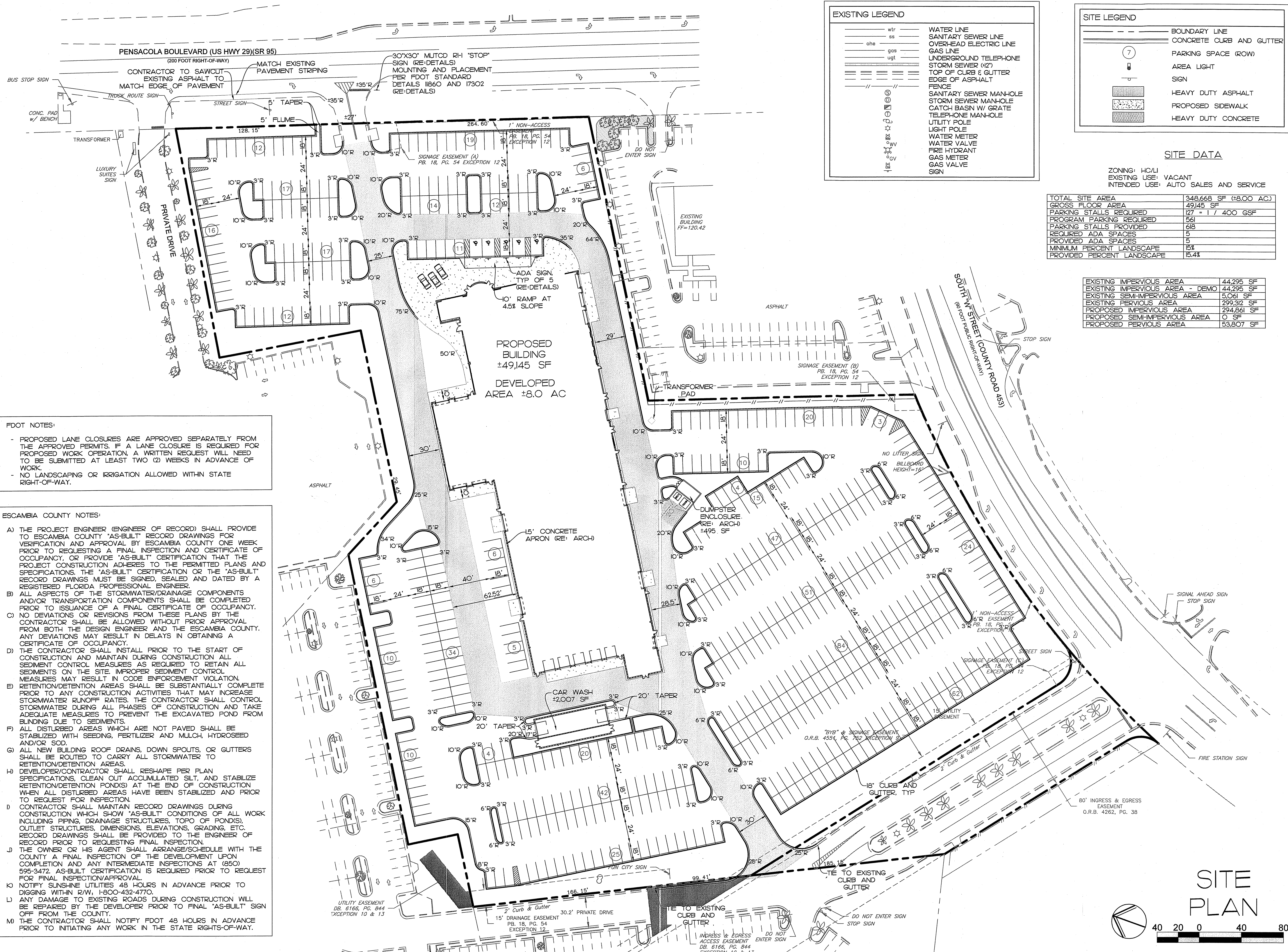


HONDA PENSACOLA
ESCAMBIA COUNTY, FLORIDA
SONIC DEVELOPMENT, LLC
4401 COLWICK ROAD
CHARLOTTE, NORTH CAROLINA 28211
MARTIN WALSH
704-566-3980



DRAWN BY
WDE
CHECKED BY
CAG
DATE
02-15-16
SCALE
1"=40'
SHEET

3



EXISTING LEGEND	
_____ wtr _____	WATER LINE
_____ ss _____	SANITARY SEWER LINE
_____ ohe _____	OVERHEAD ELECTRIC LINE
_____ gas _____	GAS LINE
===== ugt _____	UNDERGROUND TELEPHONE
===== _____	STORM SEWER (12")
===== _____	TOP OF CURB & GUTTER
===== _____	EDGE OF ASPHALT
===== // _____	FENCE
⊙	SANITARY SEWER MAN-HOLE
⊙	STORM SEWER MANHOLE
⊙	CATCH BASIN W/ GRATE
⊙	TELEPHONE MAN-HOLE
⊙	UTILITY POLE
☼	LIGHT POLE
⊙	WATER METER
⊙ wv	WATER VALVE
⊙	FIRE HYDRANT
⊙ gv	GAS METER
⊙	GAS VALVE
⊙	SIGN

SITE LEGEND	
---	BOUNDARY LINE
---	CONCRETE CURB AND GUTTER
---	PARKING SPACE (ROW)
---	AREA LIGHT
---	SIGN
---	HEAVY DUTY ASPHALT
---	PROPOSED SIDEWALK
---	HEAVY DUTY CONCRETE

SITE DATA

ZONING: H-C/LI	
EXISTING USE: VACANT	
INTENDED USE: AUTO SALES AND SERVICE	
TOTAL SITE AREA	348,668 SF (±8.00 AC.)
GROSS FLOOR AREA	49,145 SF
PARKING STALLS REQUIRED	127 = 1 / 400 GSF
PROGRAM PARKING REQUIRED	561
PARKING STALLS PROVIDED	618
REQUIRED ADA SPACES	5
PROVIDED ADA SPACES	5
MINIMUM PERCENT LANDSCAPE	15%
PROVIDED PERCENT LANDSCAPE	15.4%
EXISTING IMPERVIOUS AREA	44,295 SF
EXISTING IMPERVIOUS AREA - DEMO	44,295 SF
EXISTING SEMI-IMPERVIOUS AREA	5,061 SF
EXISTING PERVIOUS AREA	299,312 SF
PROPOSED IMPERVIOUS AREA	294,661 SF
PROPOSED SEMI-IMPERVIOUS AREA	0 SF
PROPOSED PERVIOUS AREA	53,807 SF

FOOT NOTES:

- PROPOSED LANE CLOSURES ARE APPROVED SEPARATELY FROM THE APPROVED PERMITS. IF A LANE CLOSURE IS REQUIRED FOR PROPOSED WORK OPERATION, A WRITTEN REQUEST WILL NEED TO BE SUBMITTED AT LEAST TWO (2) WEEKS IN ADVANCE OF WORK.
- NO LANDSCAPING OR IRRIGATION ALLOWED WITHIN STATE RIGHT-OF-WAY.

ESCAMBIA COUNTY NOTES:

A) THE PROJECT ENGINEER (ENGINEER OF RECORD) SHALL PROVIDE TO ESCAMBIA COUNTY "AS-BUILT" RECORD DRAWINGS FOR VERIFICATION AND APPROVAL BY ESCAMBIA COUNTY ONE WEEK PRIOR TO REQUESTING A FINAL INSPECTION AND CERTIFICATE OF OCCUPANCY, OR PROVIDE "AS-BUILT" CERTIFICATION THAT THE PROJECT CONSTRUCTION ADHERES TO THE PERMITTED PLANS AND SPECIFICATIONS. THE "AS-BUILT" CERTIFICATION OR THE "AS-BUILT" RECORD DRAWINGS MUST BE SIGNED, SEALED AND DATED BY A REGISTERED FLORIDA PROFESSIONAL ENGINEER.

B) ALL ASPECTS OF THE STORMWATER/DRAINAGE COMPONENTS AND/OR TRANSPORTATION COMPONENTS SHALL BE COMPLETED PRIOR TO ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY.

C) NO DEVIATIONS OR REVISIONS FROM THESE PLANS BY THE CONTRACTOR SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM BOTH THE DESIGN ENGINEER AND THE ESCAMBIA COUNTY. ANY DEVIATIONS MAY RESULT IN DELAYS IN OBTAINING A CERTIFICATE OF OCCUPANCY.

D) THE CONTRACTOR SHALL INSTALL PRIOR TO THE START OF CONSTRUCTION AND MAINTAIN DURING CONSTRUCTION ALL SEDIMENT CONTROL MEASURES AS REQUIRED TO RETAIN ALL SEDIMENTS ON THE SITE. IMPROPER SEDIMENT CONTROL MEASURES MAY RESULT IN CODE ENFORCEMENT VIOLATION.

E) RETENTION/DETENTION AREAS SHALL BE SUBSTANTIALLY COMPLETE PRIOR TO ANY CONSTRUCTION ACTIVITIES THAT MAY INCREASE STORMWATER RUNOFF RATES. THE CONTRACTOR SHALL CONTROL STORMWATER DURING ALL PHASES OF CONSTRUCTION AND TAKE ADEQUATE MEASURES TO PREVENT THE EXCAVATED POND FROM BLINDING DUE TO SEDIMENTS.

F) ALL DISTURBED AREAS WHICH ARE NOT PAVED SHALL BE STABILIZED WITH SEEDING, FERTILIZER AND MULCH, HYDROSEED AND/OR SOD.

G) ALL NEW BUILDING ROOF DRAINS, DOWN SPOUTS, OR GUTTERS SHALL BE ROUTED TO CARRY ALL STORMWATER TO RETENTION/DETENTION AREAS.

H) DEVELOPER/CONTRACTOR SHALL RESHAPE PER PLAN SPECIFICATIONS, CLEAN OUT ACCUMULATED SILT, AND STABILIZE RETENTION/DETENTION POND(S) AT THE END OF CONSTRUCTION WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED AND PRIOR TO REQUEST FOR INSPECTION.

I) CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS DURING CONSTRUCTION WHICH SHOW "AS-BUILT" CONDITIONS OF ALL WORK INCLUDING PIPES, DRAINAGE STRUCTURES, TOP OF POND(S), OUTLET STRUCTURES, DIMENSIONS, ELEVATIONS, GRADING, ETC. RECORD DRAWINGS SHALL BE PROVIDED TO THE ENGINEER OF RECORD PRIOR TO REQUESTING FINAL INSPECTION.

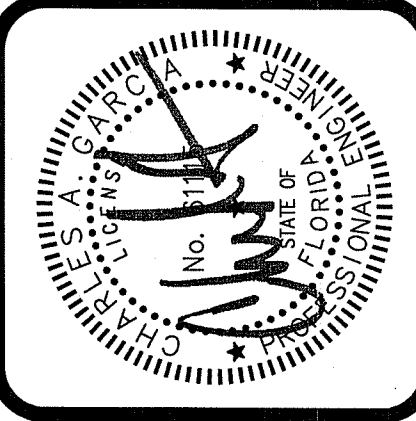
J) THE OWNER OR HIS AGENT SHALL ARRANGE/SCHEDULE WITH THE COUNTY A FINAL INSPECTION OF THE DEVELOPMENT UPON COMPLETION AND ANY INTERMEDIATE INSPECTIONS AT (850) 595-3472. AS-BUILT CERTIFICATION IS REQUIRED PRIOR TO REQUEST FOR FINAL INSPECTION/APPROVAL.

K) NOTIFY SUNSHINE UTILITIES 48 HOURS IN ADVANCE PRIOR TO DIGGING WITHIN R/W, 1-800-432-4770.

L) ANY DAMAGE TO EXISTING ROADS DURING CONSTRUCTION WILL BE REPAIRED BY THE DEVELOPER PRIOR TO FINAL "AS-BUILT" SIGN OFF FROM THE COUNTY.

M) THE CONTRACTOR SHALL NOTIFY FOOT 48 HOURS IN ADVANCE PRIOR TO INITIATING ANY WORK IN THE STATE RIGHTS-OF-WAY.

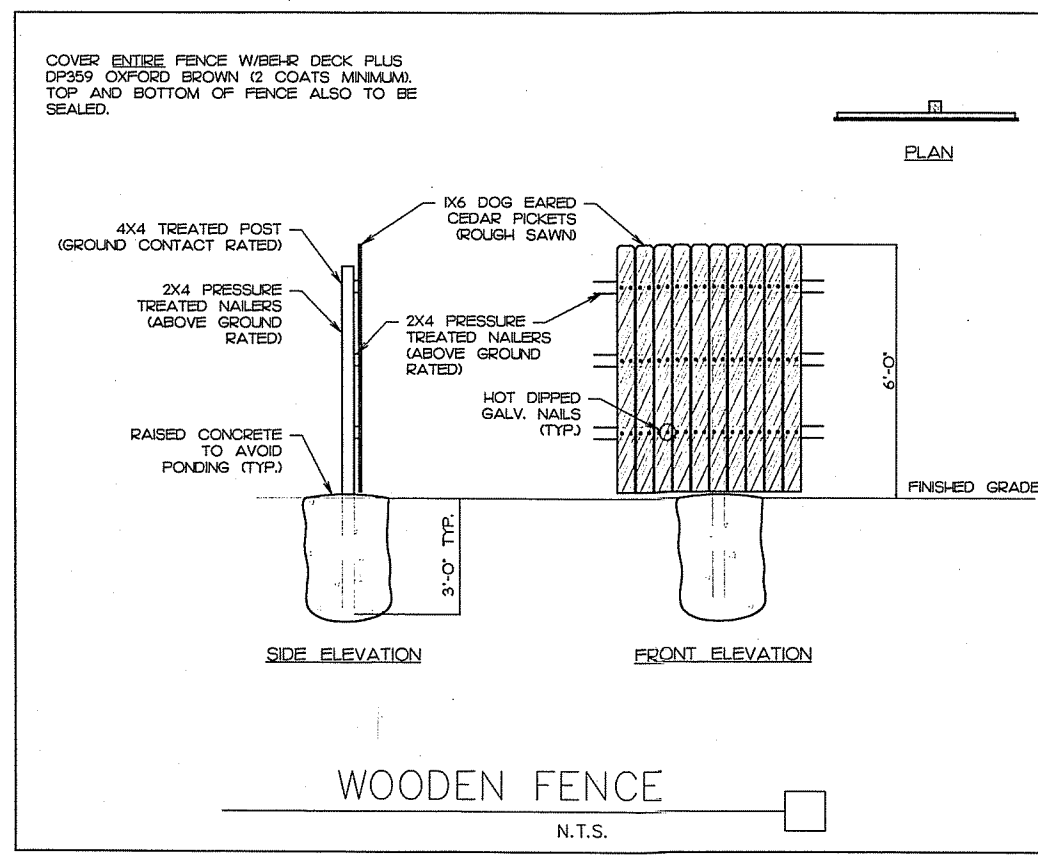
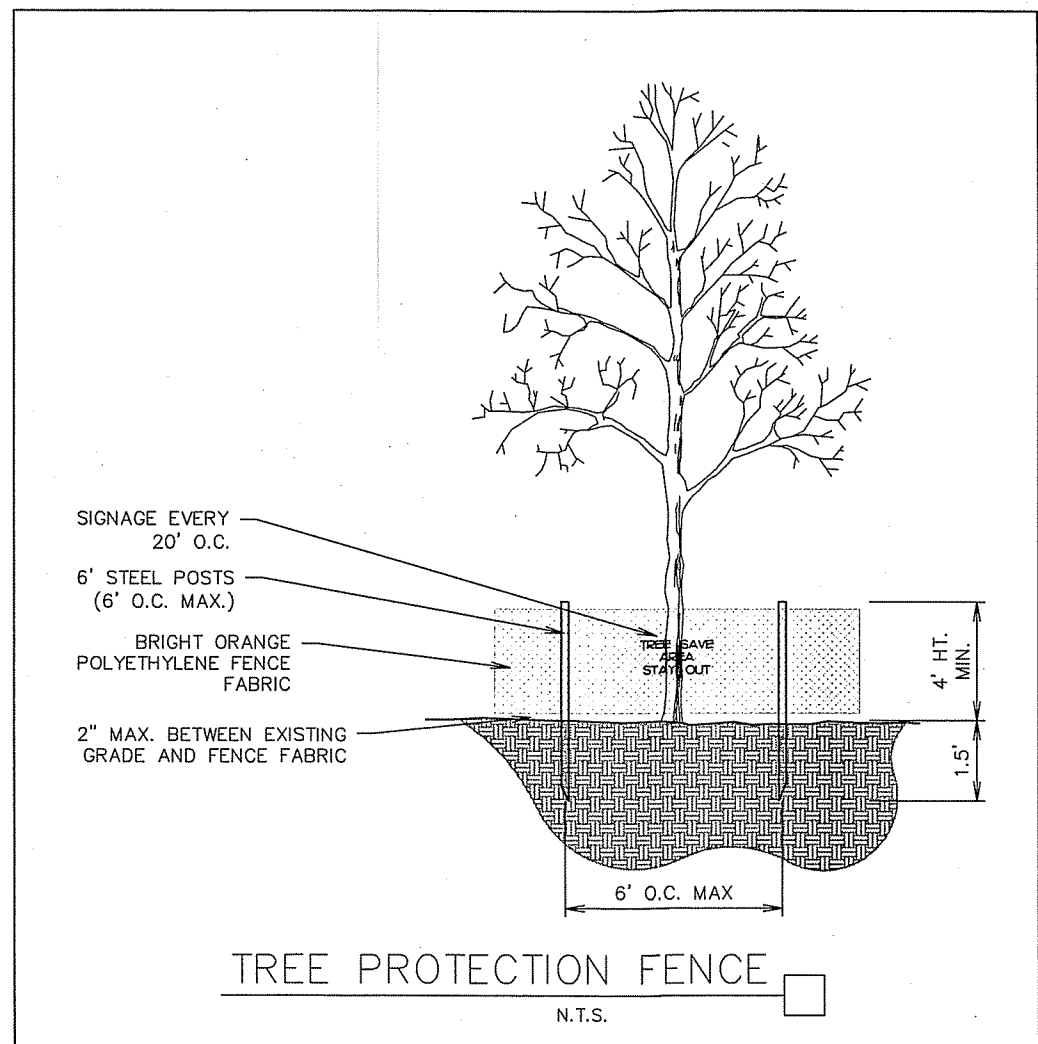
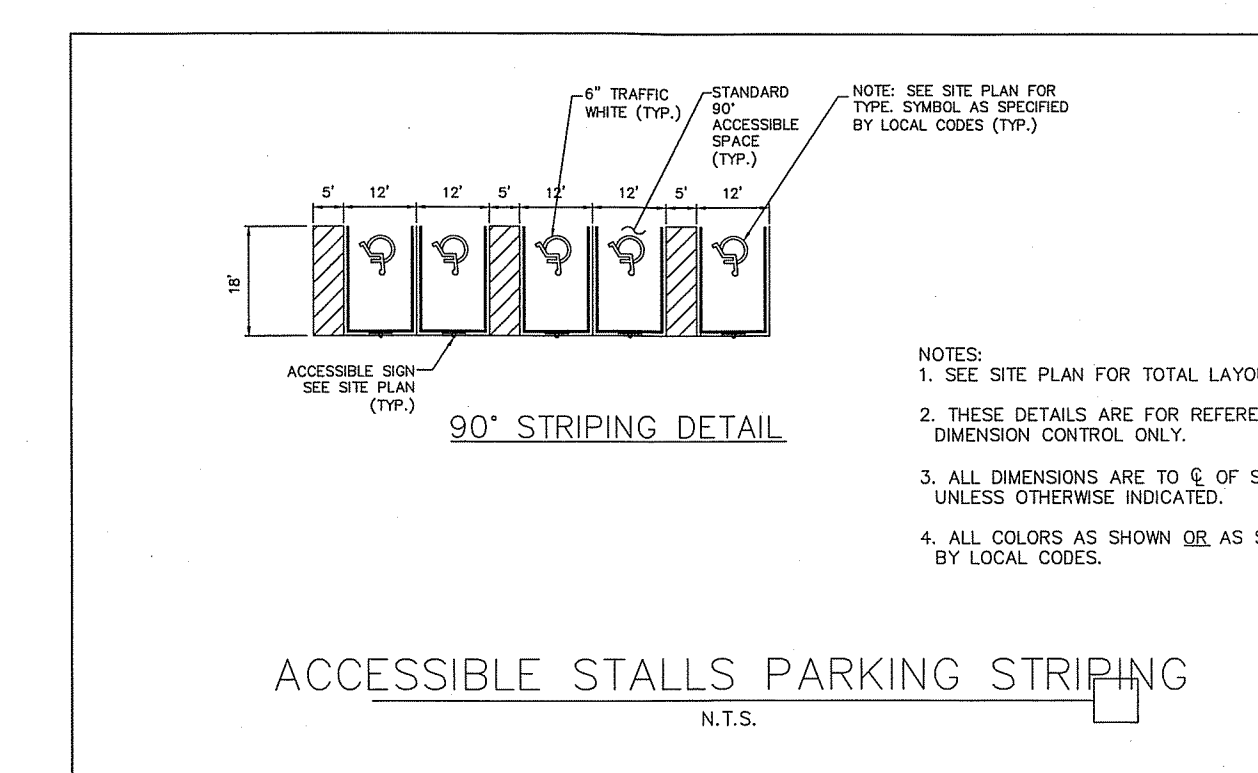
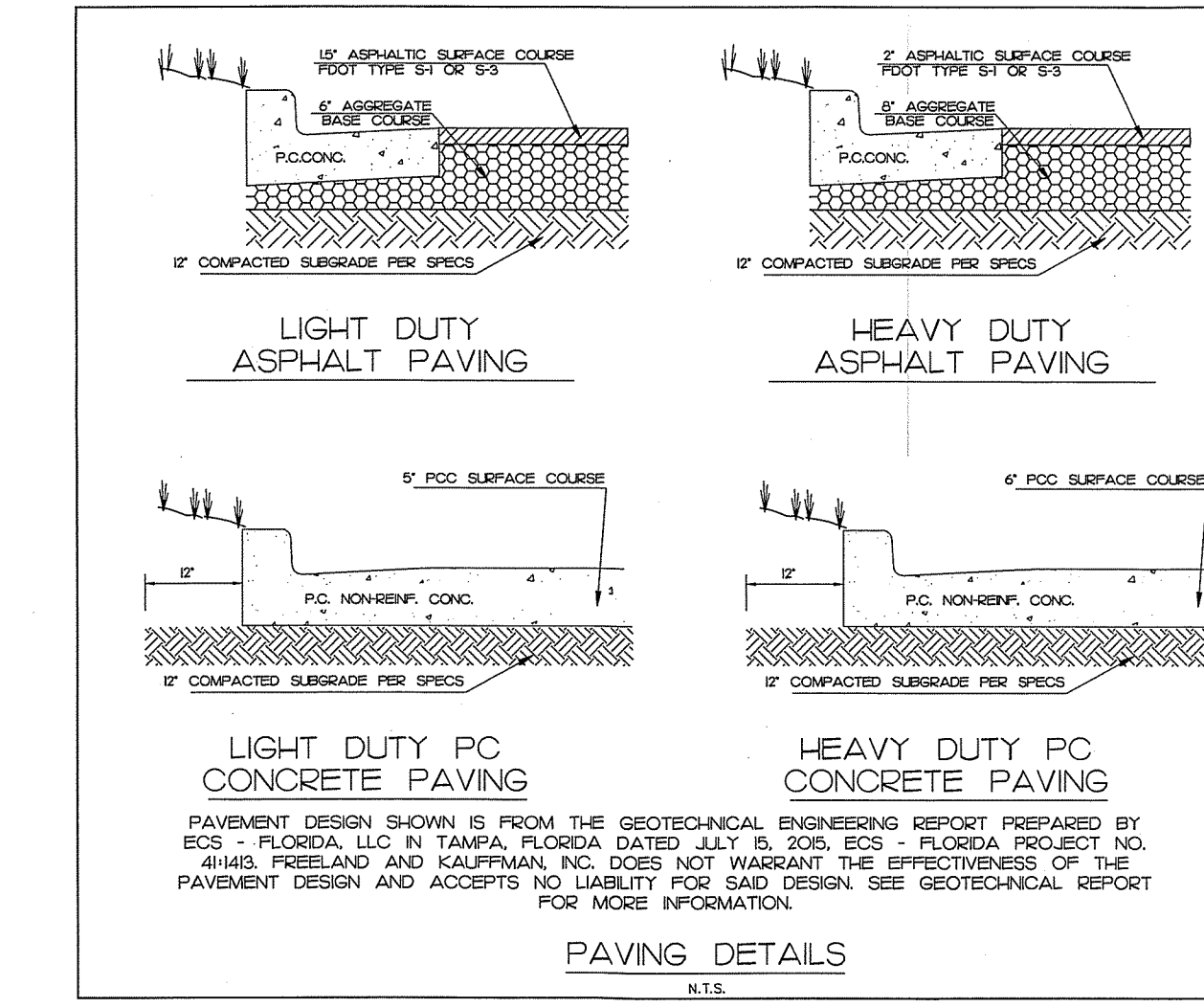
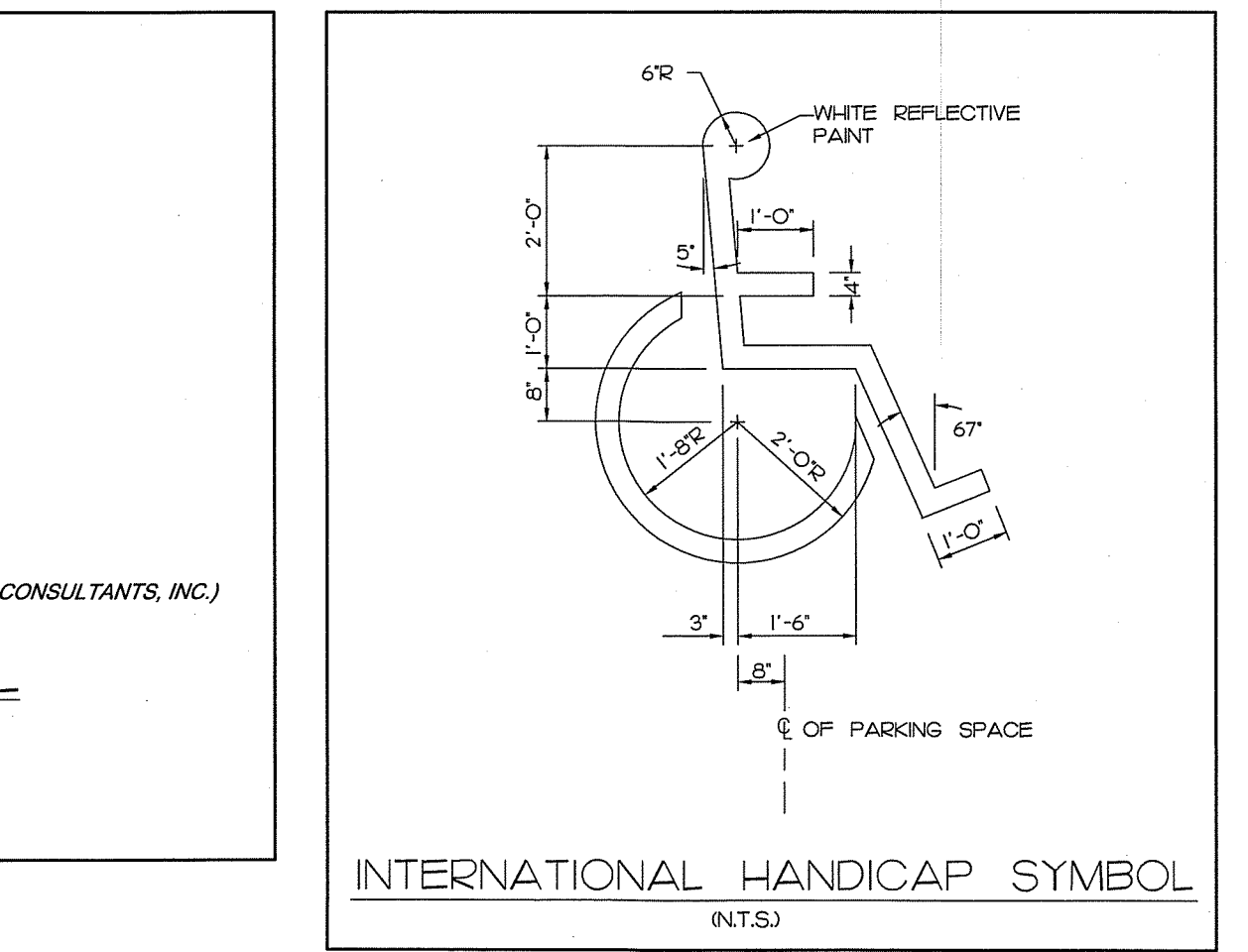
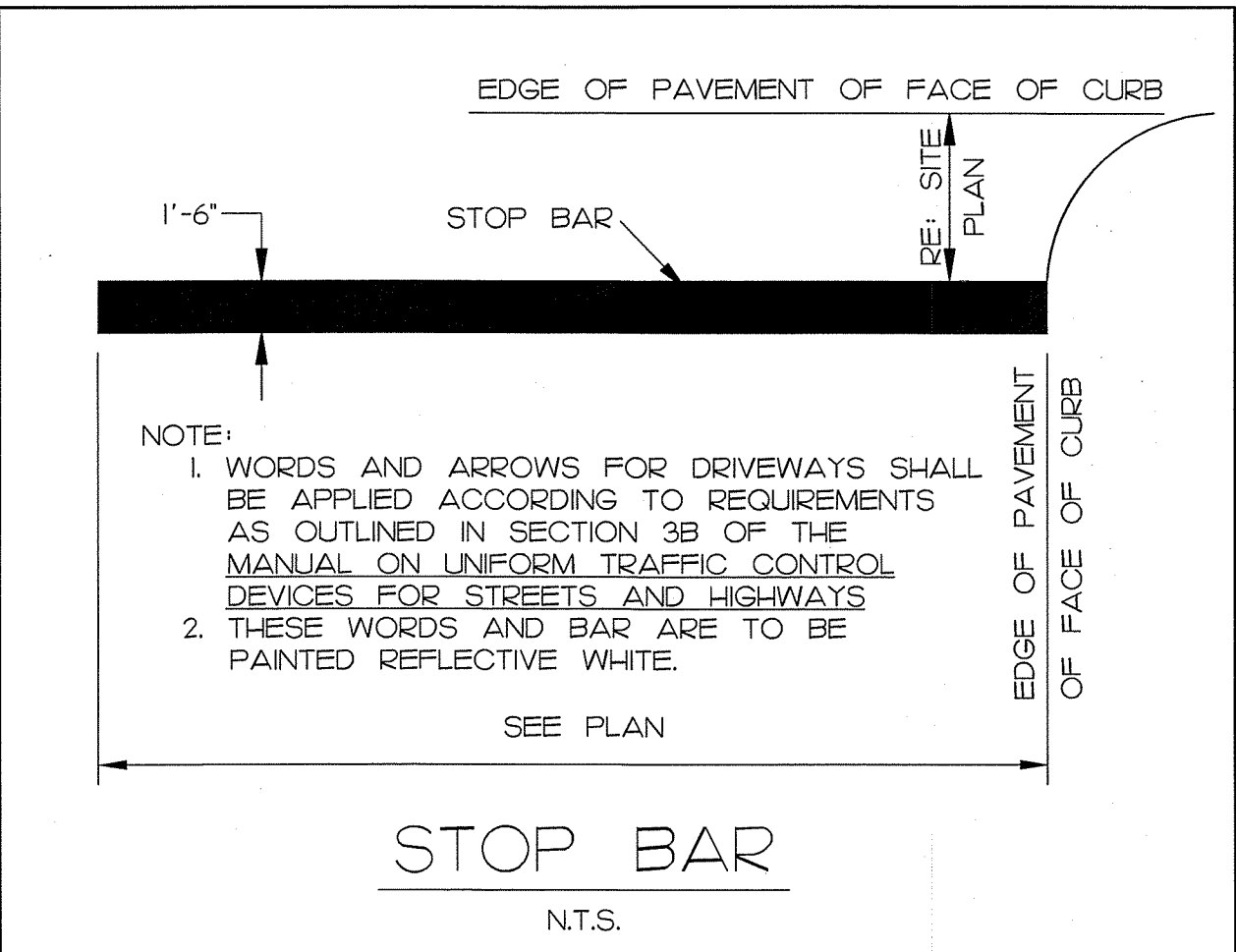
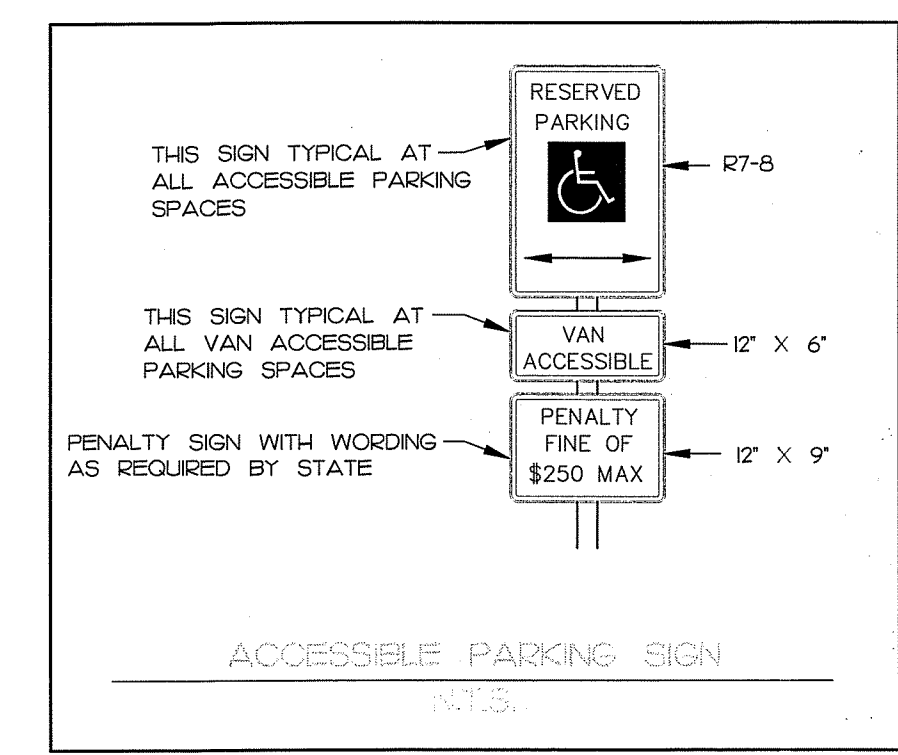
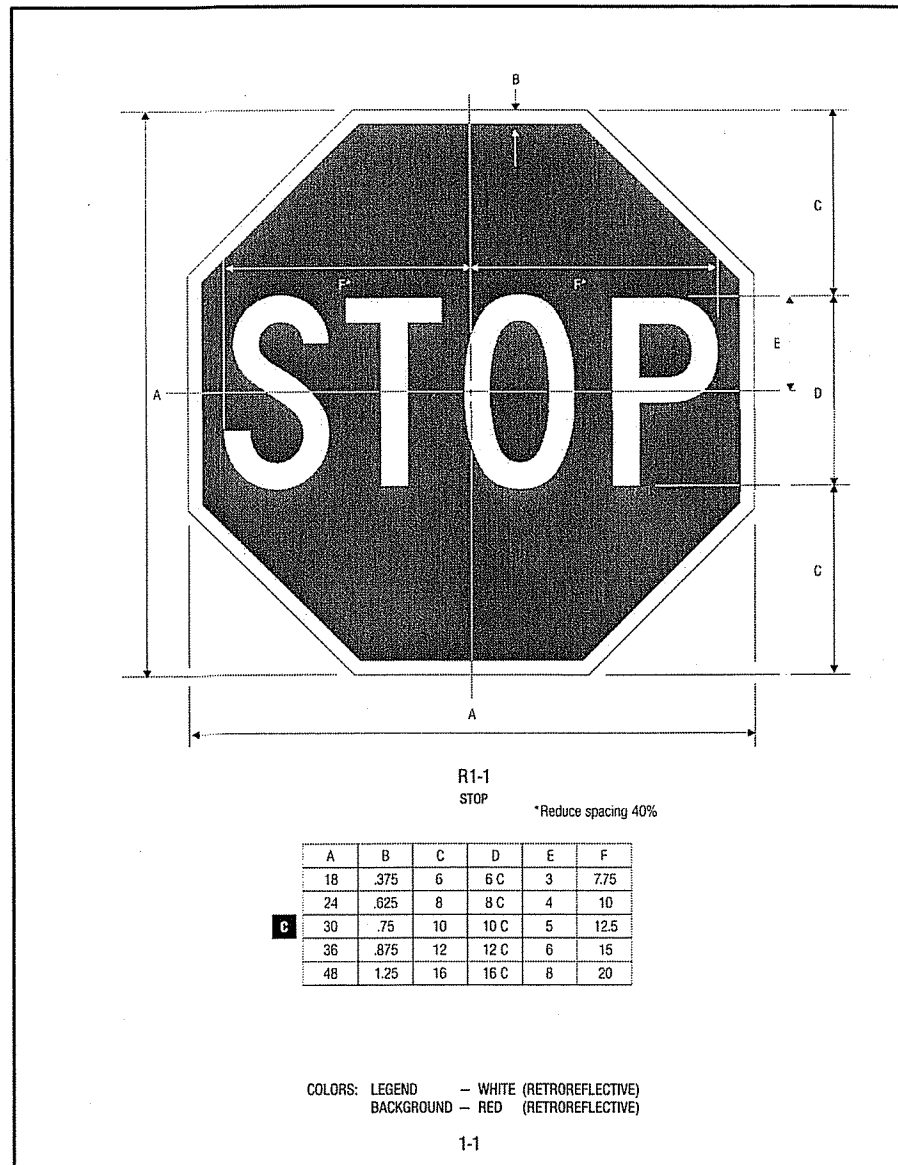
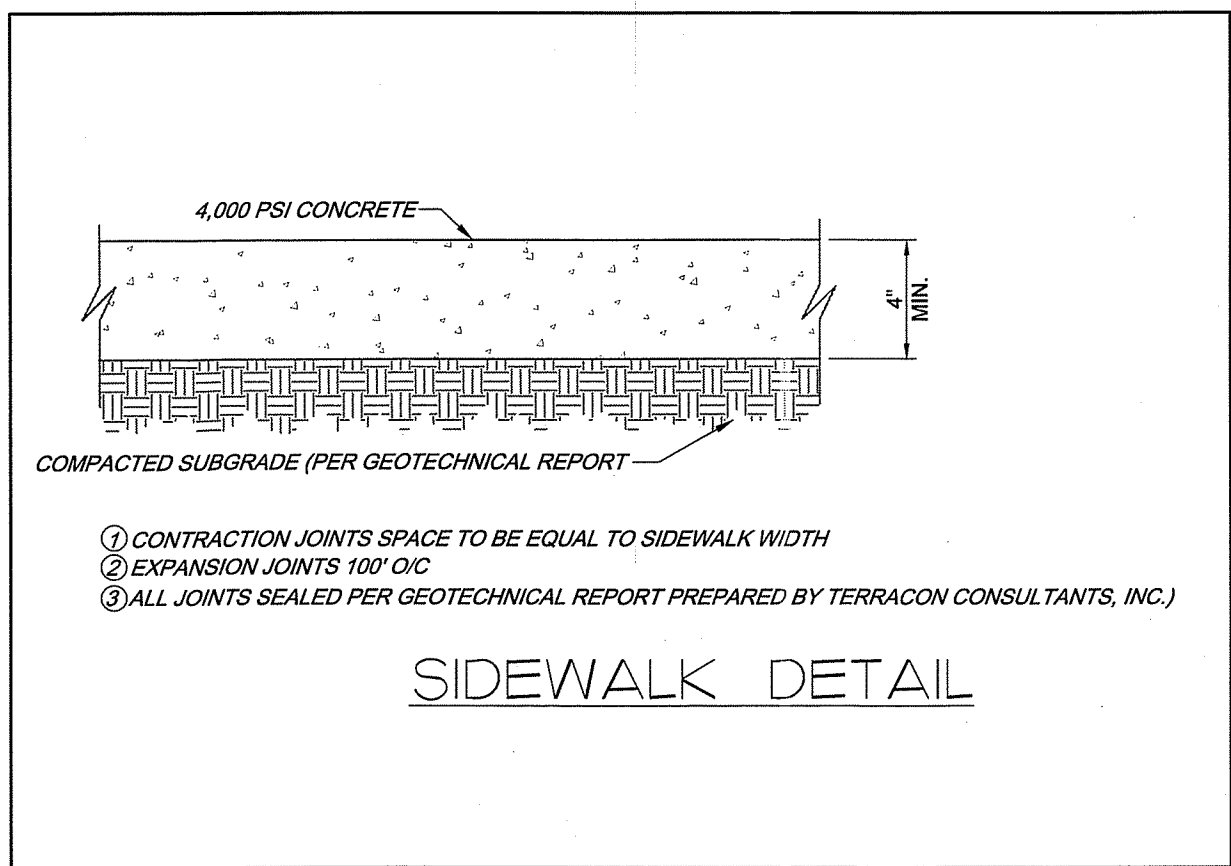
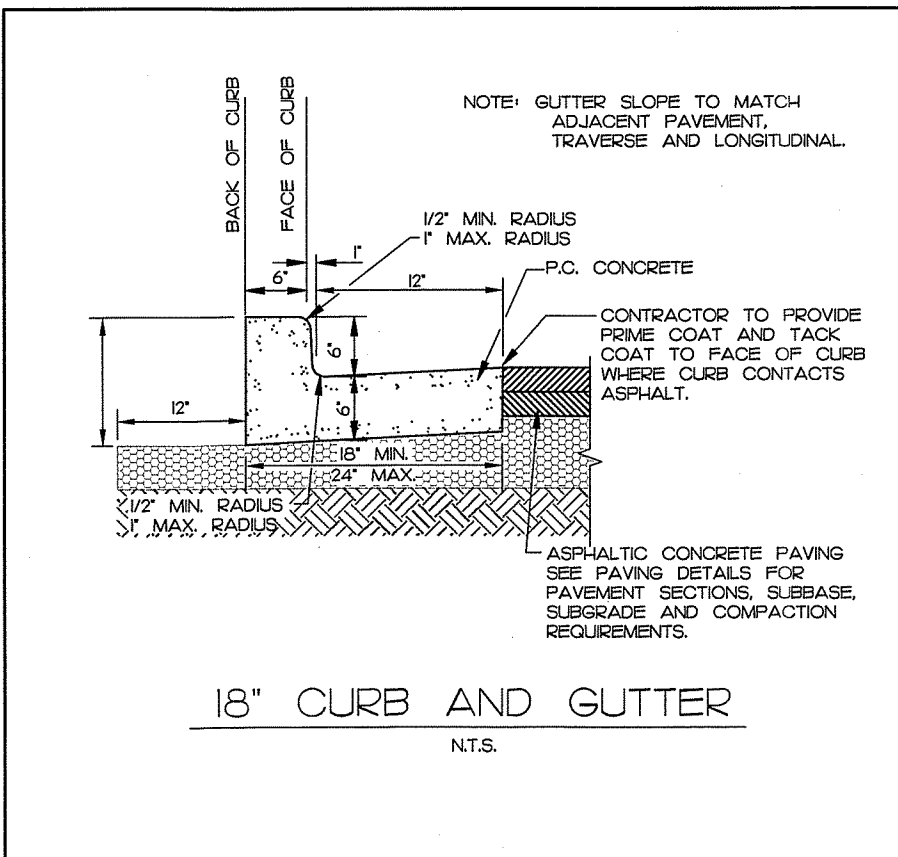
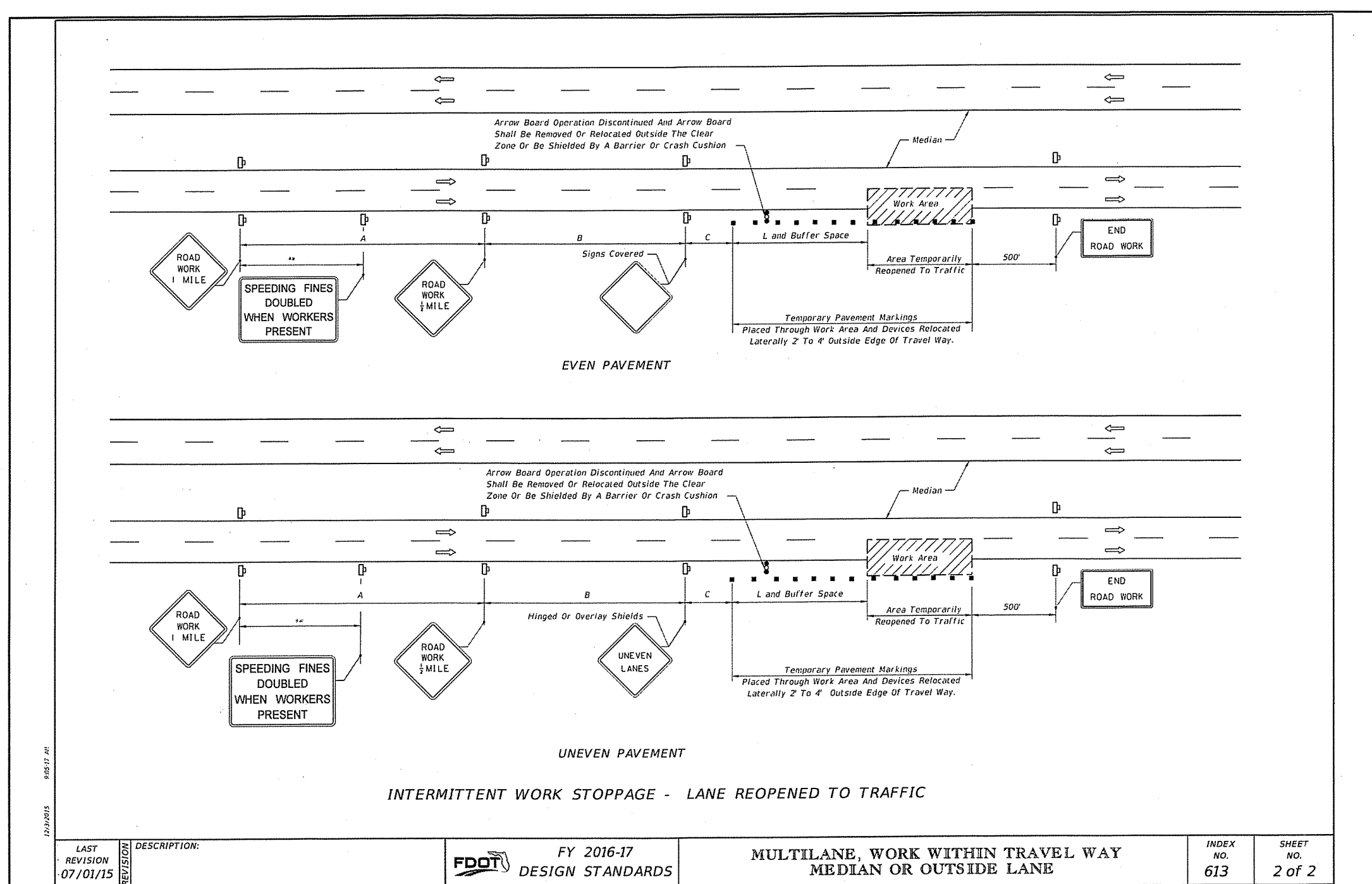
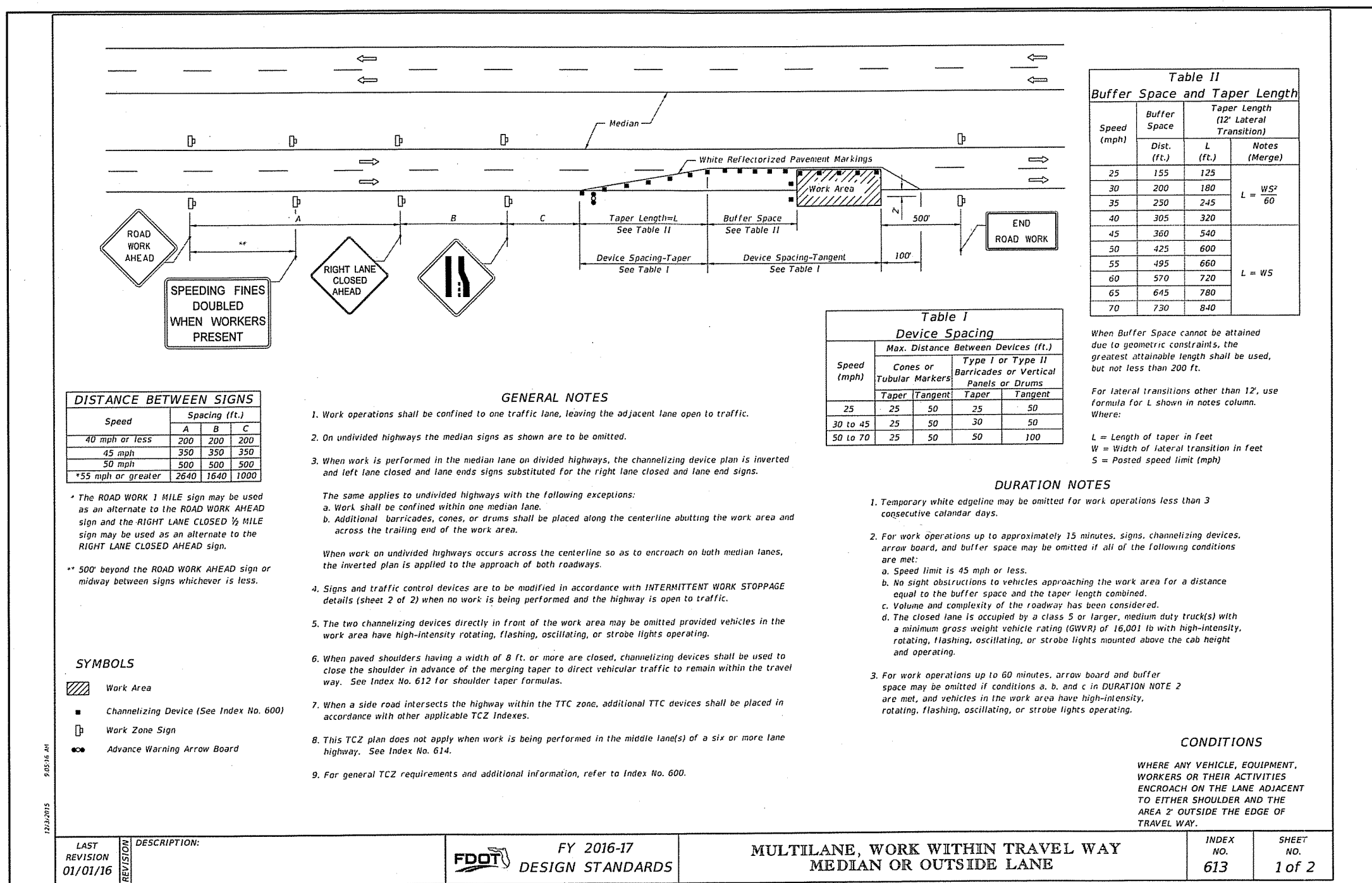
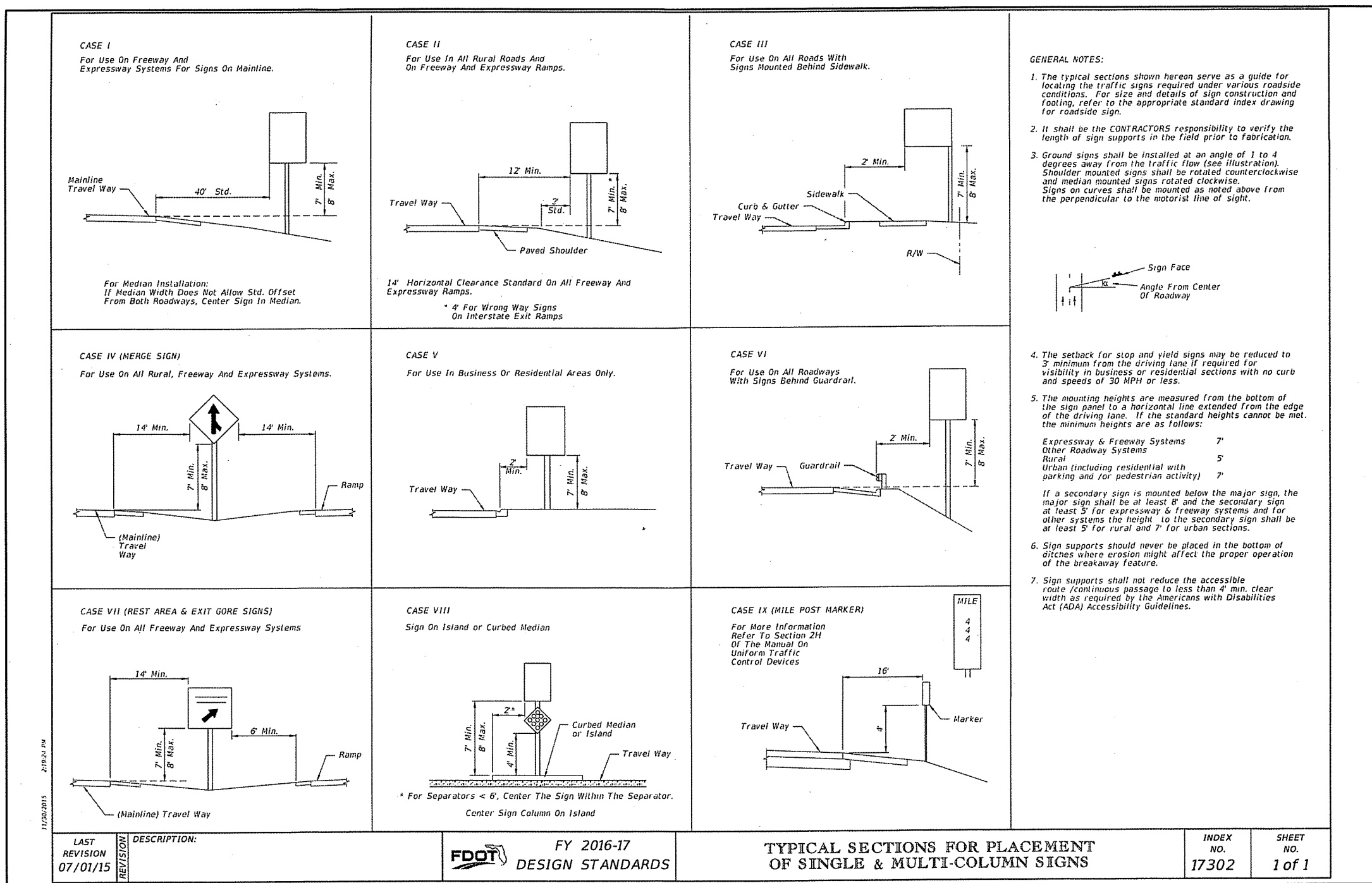
FREELAND and KAUFFMAN, INC.
Engineers • Landscape Architects
209 West Stone Avenue
Greenville, South Carolina 29609
PHONE 864-233-5497
FAX 864-233-8915
FL C.O.A.# 25998



HONDA PENSACOLA
ESCAMBIA COUNTY, FLORIDA
SONIC DEVELOPMENT, LLC
4401 COLUMBIA ROAD
CHARLOTTE, NORTH CAROLINA 28211
MARTIN WALSH
704-566-3980



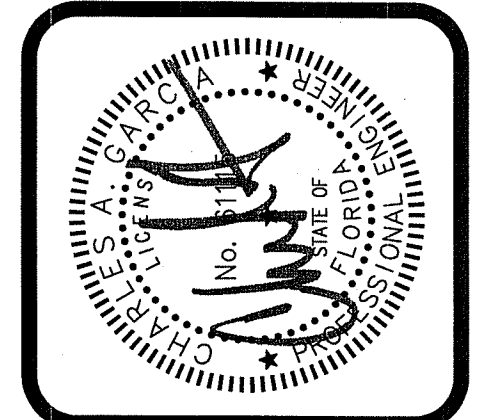
DRAWN BY
WDE
CHECKED BY
CAG
DATE
02-15-16
SCALE
1"=40'
SHEET



SITE DETAILS

#	DATE	REVISION DESCRIPTION

FREELAND and KAUFFMAN, INC.
Engineers • Landscape Architects
209 West Stone Avenue
Greenville, South Carolina 29609
PHONE 864-233-5497
FAX 864-233-9915
FL C.O.A. # 25998



HONDA PENSACOLA
ESCAMBIA COUNTY, FLORIDA

SONIC DEVELOPMENT, LLC
4401 COLWICK ROAD
CHARLOTTE, NORTH CAROLINA 28211
MARTIN WALSH
704-566-3980



DRAWN BY WDE
CHECKED BY CAG
DATE 02-15-16
SCALE
SHEET
5

LEGEND, GENERAL NOTES, SKETCH ILLUSTRATING DEFINITIONS, URBAN (CURB & GUTTER), RURAL, SUMMARY OF GEOMETRIC REQUIREMENTS FOR TURNOUTS, 2016 DESIGN STANDARDS, TURNOUTS, INDEX NO. 515, SHEET NO. 1 of 7

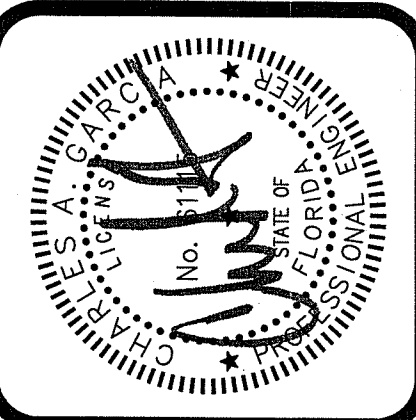
Typical Half Section For Low Volume/Residential Connections, Typical Half Section For Higher Volume Connections, PLAN, LIMITS OF CLEARING & GRUBBING, STABILIZING AND BASE AT INTERSECTIONS, INTERSECTIONS NOTES, DRIVE ENTRANCES NOTES, DRAINAGE SECTION, TURNOUT PROFILE AND END VIEW, RURAL TURNOUT CONSTRUCTION, 2016 DESIGN STANDARDS, TURNOUTS, INDEX NO. 515, SHEET NO. 5 of 7

MATERIAL TYPES AND THICKNESSES IN DRIVING AREAS FOR RURAL AND URBAN CONNECTIONS, NOTES, PAVEMENT STRUCTURE FOR TURNOUTS AND AUXILIARY LANES, TABLE 515-1, LIMITS OF CONSTRUCTION AND MAINTENANCE FOR RURAL CONNECTIONS, 2016 DESIGN STANDARDS, TURNOUTS, INDEX NO. 515, SHEET NO. 6 of 7

LENGTHS (L) (FT.), RURAL TURNOUT PROFILES, URBAN TURNOUT PROFILES, TURNOUT PROFILES, 2016 DESIGN STANDARDS, TURNOUTS, INDEX NO. 515, SHEET NO. 7 of 7

#	DATE	REVISION	DESCRIPTION

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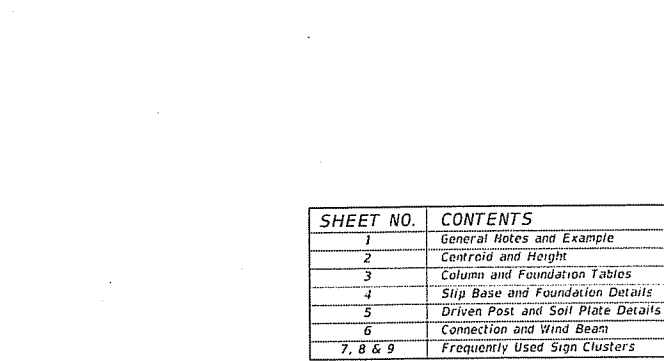


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DETAILS



Since $X_c = -0.1 < 0$, it is not a cast-in-place sign, only dark-bolt lines in the table will be referenced to.

$M = A + B + C = 10.26 \text{ ft.} \Rightarrow \boxed{\text{USE } 11 \text{ ft.}} \quad \Sigma(A_c) = 25.4 \text{ ft.} \Rightarrow \boxed{\text{USE } 16 \text{ ft.}}$

Aluminum Column (Post) Selection Table
(Wind Speed = 130 MPH)

For WIND SPEED = 130 MPH,
 $W = 31 \text{ ft.}$ Area = 16 (ft.²)

5. Sign Maximum Bolt Material For H Steel

6. Sign Maximum Bolt Strength (Steel Ranks and Washers)

- a. Aluminum Bolted Joints (ASTM A307) ASTM F 306 ASTM F 406
- b. Aluminum Hex Nuts (ASTM F 467) ASTM F 592 F 602 F 602/F 602-70
- c. Aluminum Washers (ASTM F 436) ASTM F 437 ASTM F 438
- d. Galvanized Steel Washers (ASTM F 306) ASTM F 307 ASTM F 308
- e. Galvanized Hex Nuts (ASTM F 306) ASTM F 307 ASTM F 308

7. Stainless Steel Bolt, Nuts and Washers may be used in lieu of the above

8. Stainless Steel Bolt and Nut Strength

- a. Stainless Steel Bolt Strength (ASTM F 303) ASTM F 304 ASTM F 304-70
- b. Stainless Steel Nut Strength (ASTM F 303) ASTM F 304 ASTM F 304-70

9. Sign Column Bolted Joints Base

- a. Galvanized Bolts (ASTM A307) ASTM A307 with Galvanized Hex Nuts or ASTM A307 with Galvanized Hex Nuts (ASTM A307) ASTM A307-70 or ASTM A307-70
- b. Galvanized High Strength Hex Head Bolts (Hex Bolts) (ASTM A325) ASTM A325
- c. Galvanized Hex Nuts (ASTM A325) ASTM A325
- d. Galvanized Washers (ASTM F 436) ASTM F 437

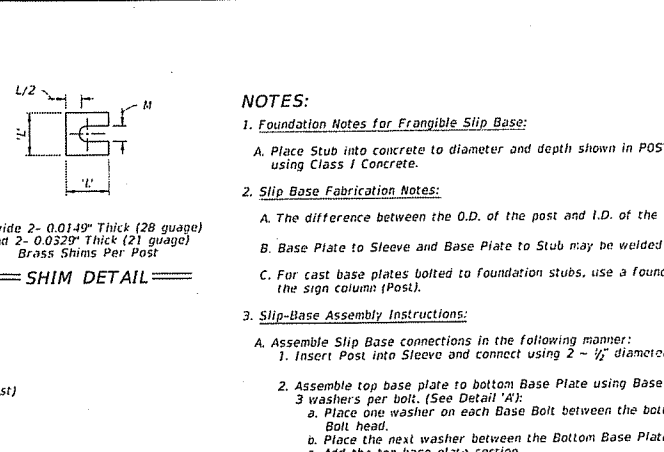
10. Continued

11. Aluminum Fasteners: Adequate Coating (2000 inches mils and chromate)

- a. High Strength Steel Bolts (ASTM A307) ASTM A307 with Galvanized Hex Nuts or ASTM A307 with Galvanized Hex Nuts (ASTM A307) ASTM A307-70 or ASTM A307-70
- b. Aluminum Bolted Joints (ASTM A307) ASTM A307 with Galvanized Hex Nuts or ASTM A307 with Galvanized Hex Nuts (ASTM A307) ASTM A307-70 or ASTM A307-70
- c. Aluminum Hex Nuts (ASTM F 467) ASTM F 592 F 602 F 602-70
- d. Aluminum Washers (ASTM F 436) ASTM F 437 ASTM F 438
- e. Galvanized Steel Washers (ASTM F 306) ASTM F 307 ASTM F 308
- f. Galvanized Hex Nuts (ASTM F 306) ASTM F 307 ASTM F 308

d. Report disclosed summarizing in accordance with applicable law.

C COLUMN GROUND SIGNS	INDEX NO. 11860	SHEET NO. 1 of 9
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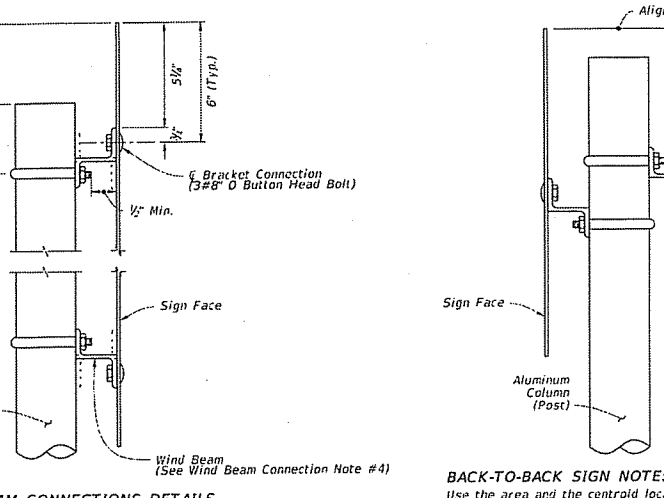
D. Tighten Base Bolts as follows:
Tighten Base Bolts to the maximum possible with a 12" to 15" wrench (this will bed

3. The washers and sleeve and clear the bolt threads.
 - a. Insert each Base Bolt one turn.
 - b. Under the supervision of the Engineer, use a calibrated or the torque prescribed in the SLP BASE DETAILS Table, if not permitted.
 - c. Distort bolt threads at the junction with nuts to prevent galvanneap.
4. Place galvanneap steel shims between the Sleeve and Pier on East and Sleeve.

Watt TAL (W)	Sleeve I.D. (Max.)	Sleeve Height (H)	Hole D " L "	Base Plate R	Radius R	Base Bolt Size/Length	Base Plate Forgoal	SPM	
								L	R
1/2	4 1/2	6	3/8 4	1/2	1/2	3 29	130	1 1/2	1 1/2
3/4	4 1/2	6	3/8 4	1/2	1/2	3 29	130	1 1/2	1 1/2

s	$\frac{1}{6}$	$\frac{2}{3}s_1$	7	$\frac{1}{6}$	$\frac{8}{9}$	$\frac{1}{6}z_1$	$\frac{1}{6}$	$\frac{3}{6}z_2$	29
m	$\frac{1}{6}$	$\frac{2}{3}m_1$	8	$\frac{1}{6}x_1$	$\frac{1}{6}$	$\frac{1}{6}y_1$	$\frac{1}{6}$	$\frac{2}{3}z_2$	30
θ	$\frac{1}{6}$	$\frac{2}{3}\theta_1$	10	$\frac{1}{6}$	$\frac{1}{6}t_1$	$\frac{1}{6}r_1$	$\frac{1}{6}$	$\frac{3}{6}z_2$	33

Align Top Of Sign



===== BACK-TO-BACK SIGN DETAIL =====

DIAMOND

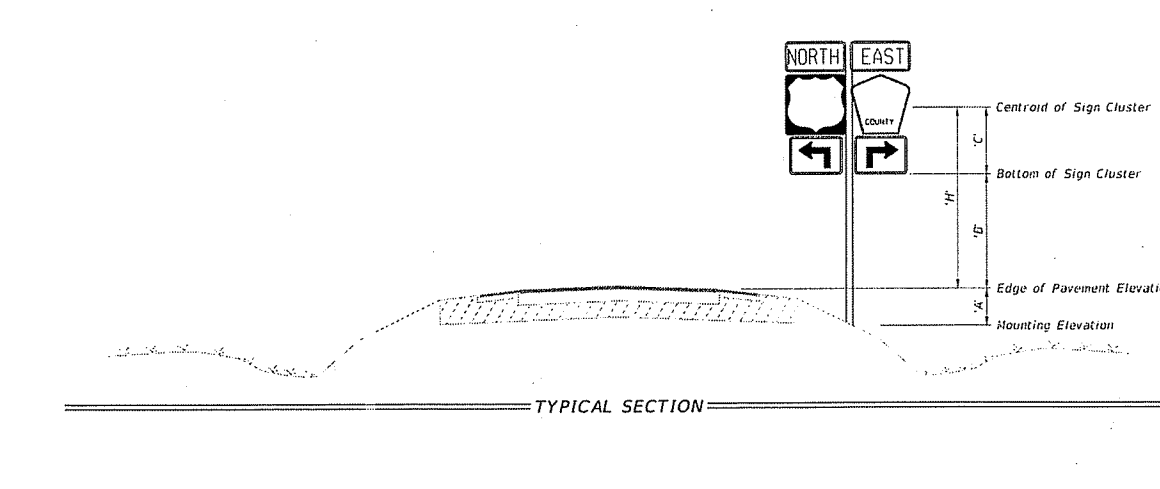
1. Install an additional third wind beam along with heights greater than 20' and less than roof eave, with greater than 25' square beam spacing of 1'-8" with the additional evenly between the top and bottom wind beams up to 12' in height, use any and with
2. Install an additional third wind beam along with heights greater than 20'.

signs $3D^2$ or greater.

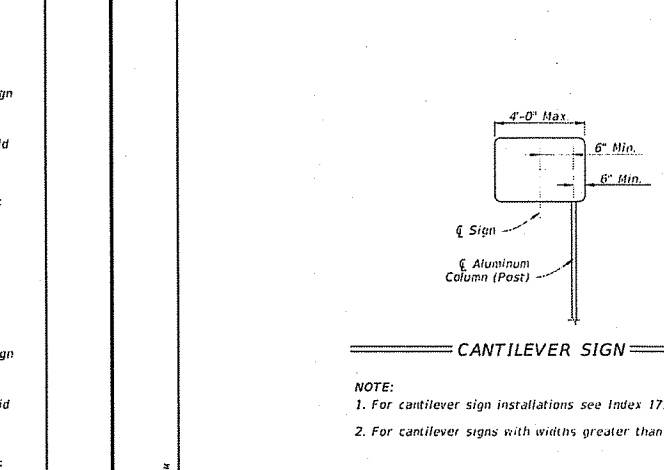
_____ COUNTY _____

_____ CONNECTION _____

SINGLE COLUMN GROUND SIGNS



*C = Height from the bottom of the sign or cluster to the centroid of the sign or cluster



INDEX NO. 11860	SHEET NO. 2 of 9
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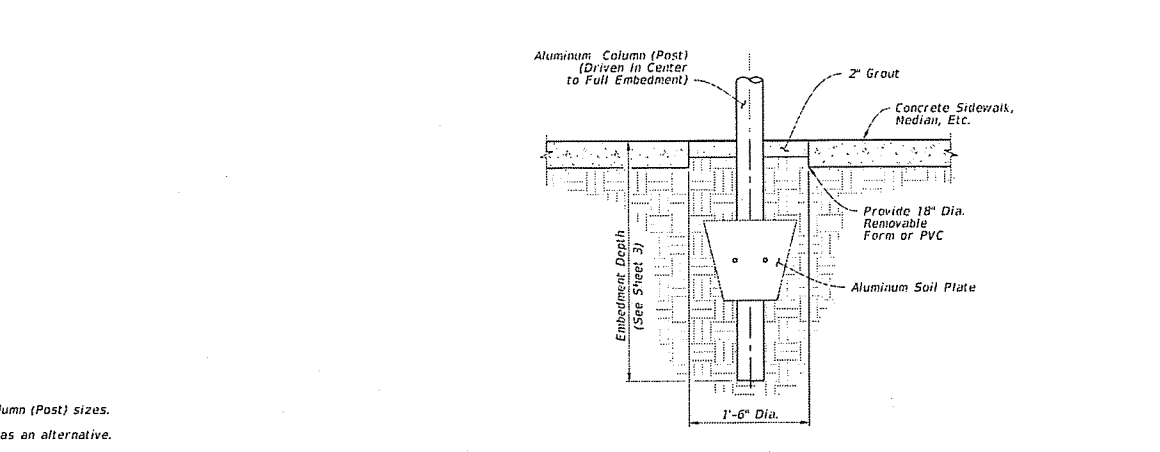

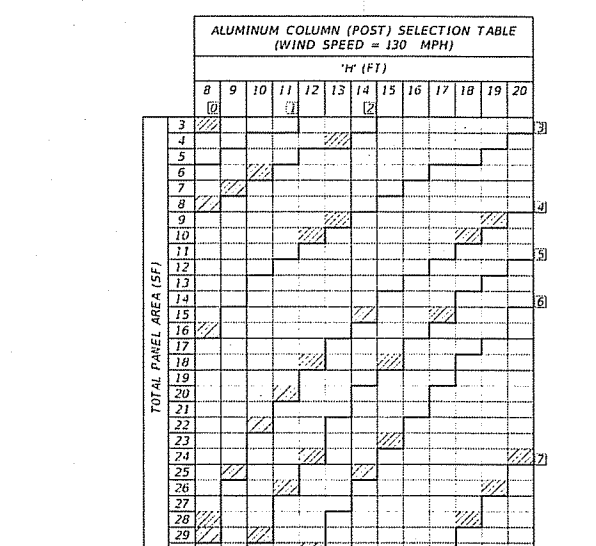


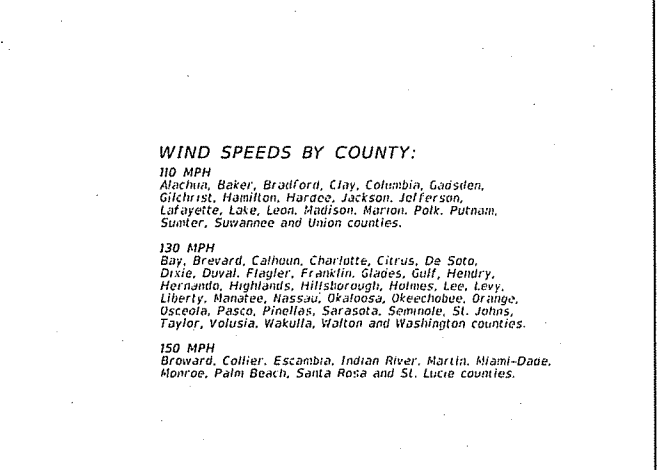
Diagram illustrating a column splice connection. The diagram shows a cross-section of a column and a slab. The column is labeled "Column (Prest)" above and below the slab. The slab is labeled "Concrete Reinforced Masonry, CMU". The connection is labeled "Column (Prest) Splice". The diagram also shows "Reinforcing Steel (U-Bar)" and "Reinforcing Steel (U-Bar) to Full Embedment". A note indicates "Reinforcing Steel (U-Bar) to Full Embedment".

===== ALUMINUM SOIL PLATE DETAIL

<p align="center">CONCRETE/STUB DETAIL <i>(Frangible Post in Crossovers, Medians & Sidewalks)</i> <i>Small Concrete Foundation May Be Chiseled Non-Structural</i> <i>if poured monolithically with subgrade or separator.</i></p>			
<p align="center">DRIVEN POST AND SOIL PLATE DETAIL</p>			
	<p>FY 2016-17 DESIGN STANDARDS</p>	<p>SINGLE COLUMN GROUND SIGNS</p>	<p>INDEX NO 11860 5</p>

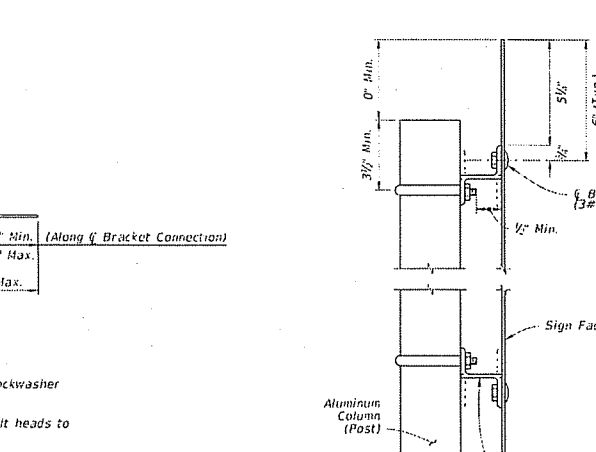


1. *Journal of the American Medical Association*, 277:1025-1026, 1996



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N GROUND SIGNS	INDEX NO. 11860	SHEET NO. 3 of 9
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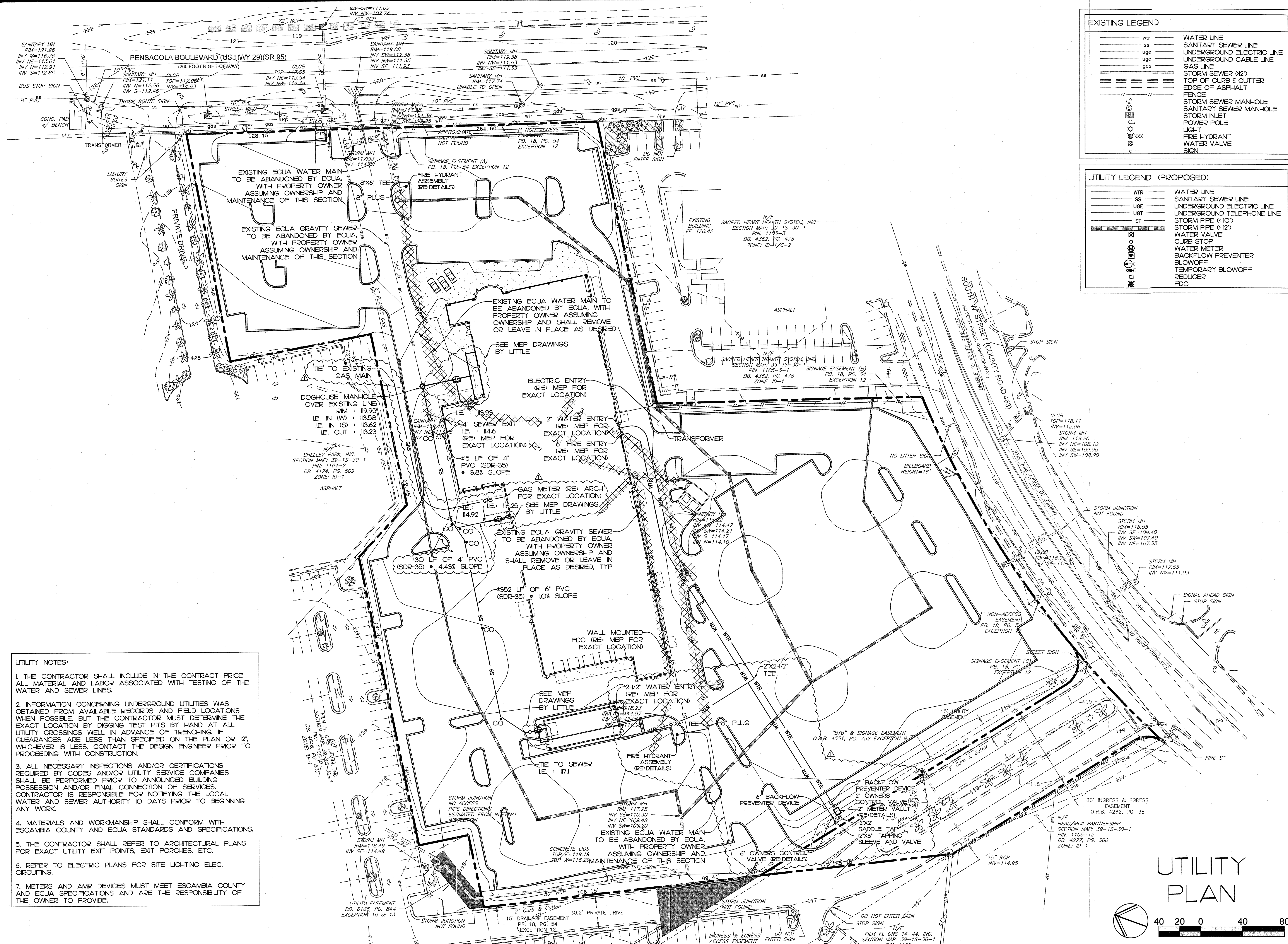
4. Wind Decks may be oriented in either direction.

The diagrams illustrate the distribution of shear stress in two types of beams under a shear force V .

Rectangular Beam: A rectangular beam of height h and width b is shown. The shear stress τ is plotted against the vertical position y . The shear stress is zero at the top and bottom surfaces ($y = \pm h/2$) and reaches its maximum value τ_{max} at the neutral axis ($y = 0$). The shear stress distribution is parabolic.

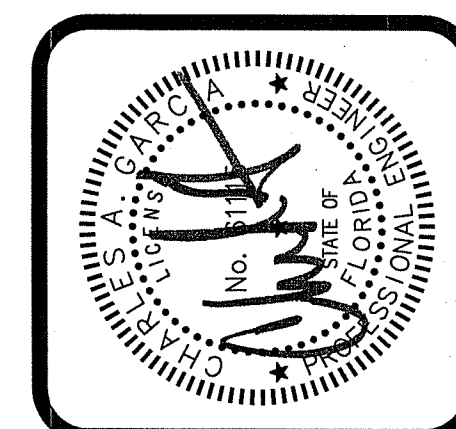
Diamond Beam: A diamond-shaped beam with a total height h and a width b at the neutral axis is shown. The shear stress τ is plotted against the vertical position y . The shear stress is zero at the top and bottom vertices ($y = \pm h/2$) and reaches its maximum value τ_{max} at the neutral axis ($y = 0$). The shear stress distribution is linear.

	FY 2016-17 DESIGN STANDARDS	SINGLE C
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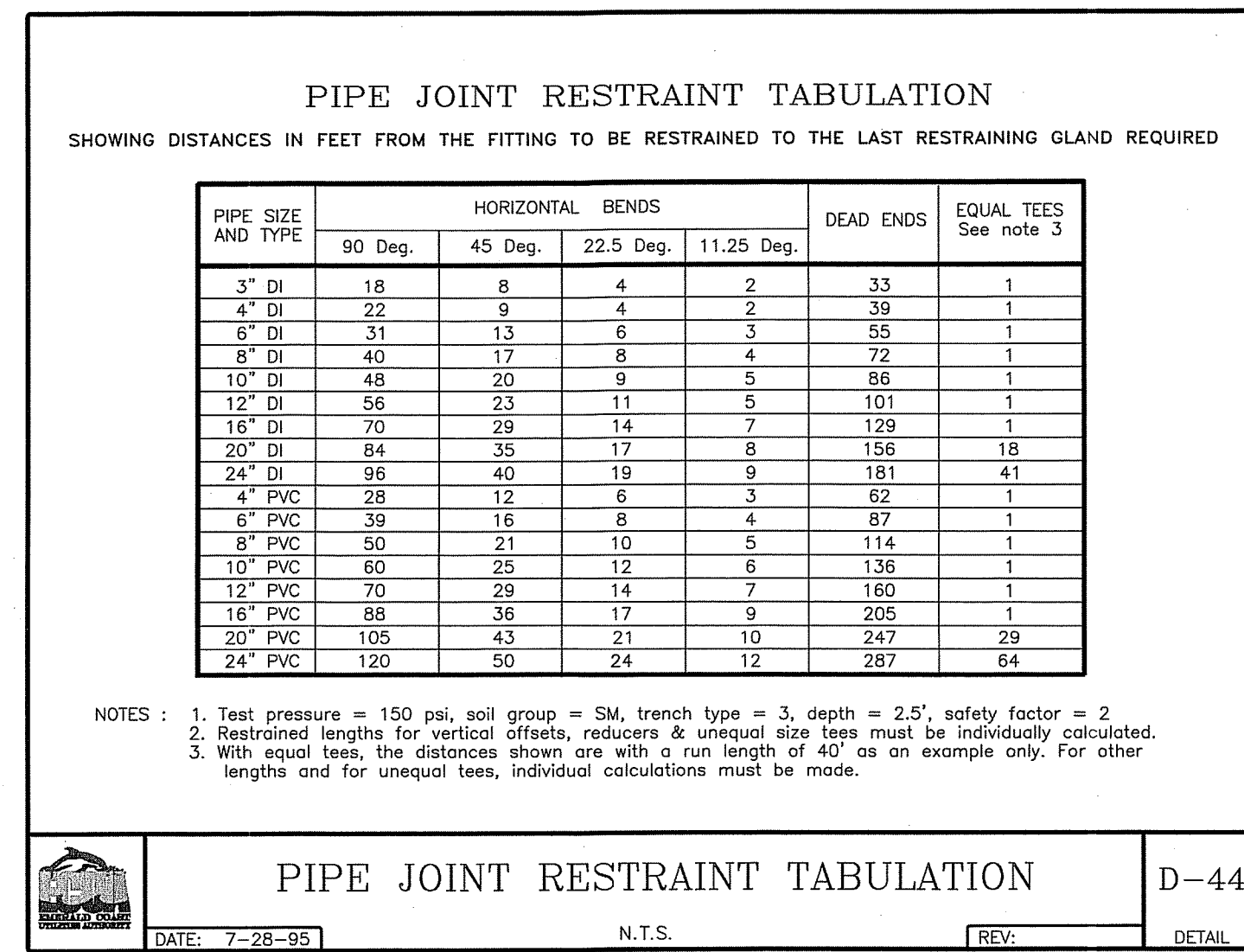
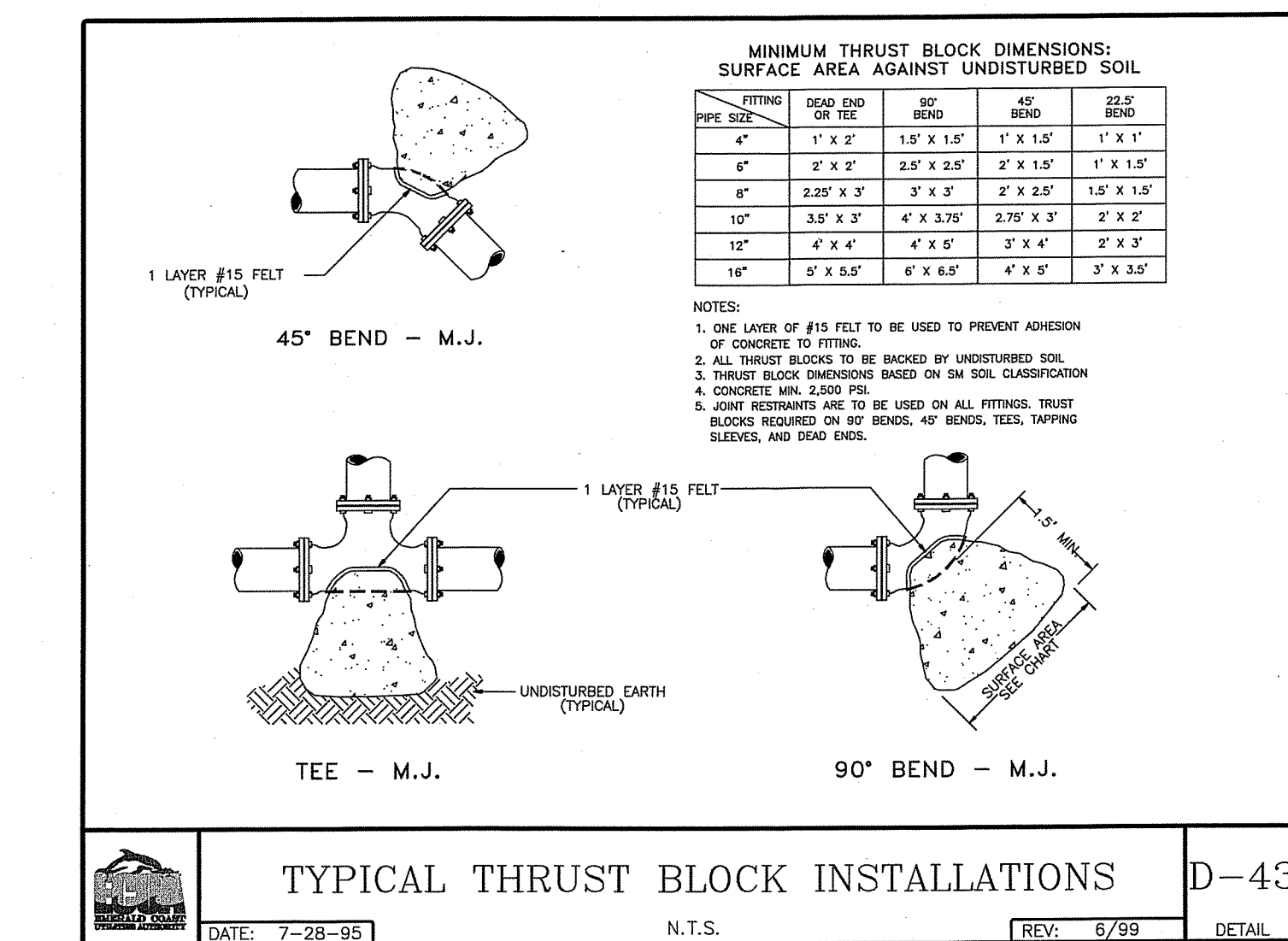
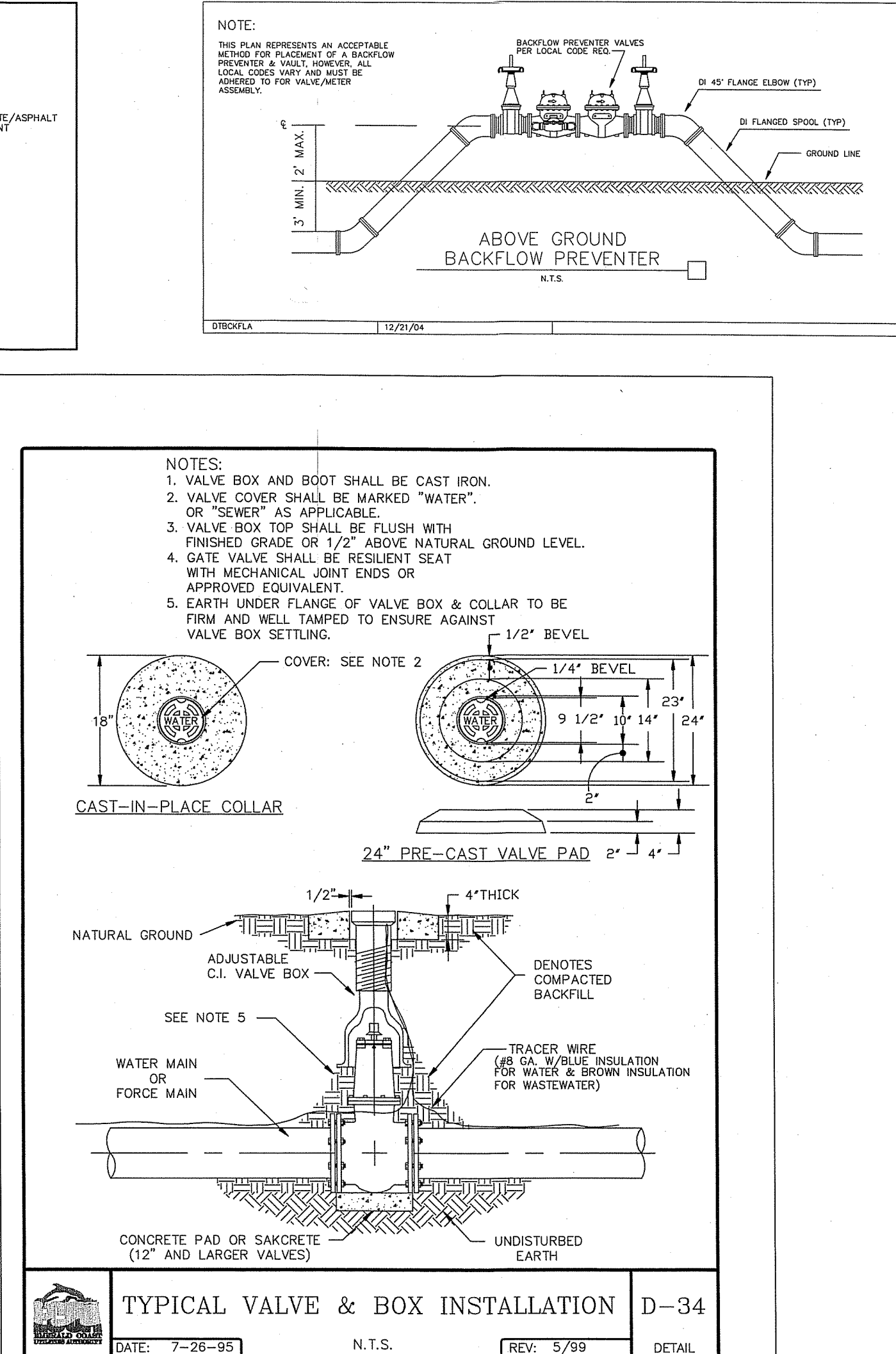
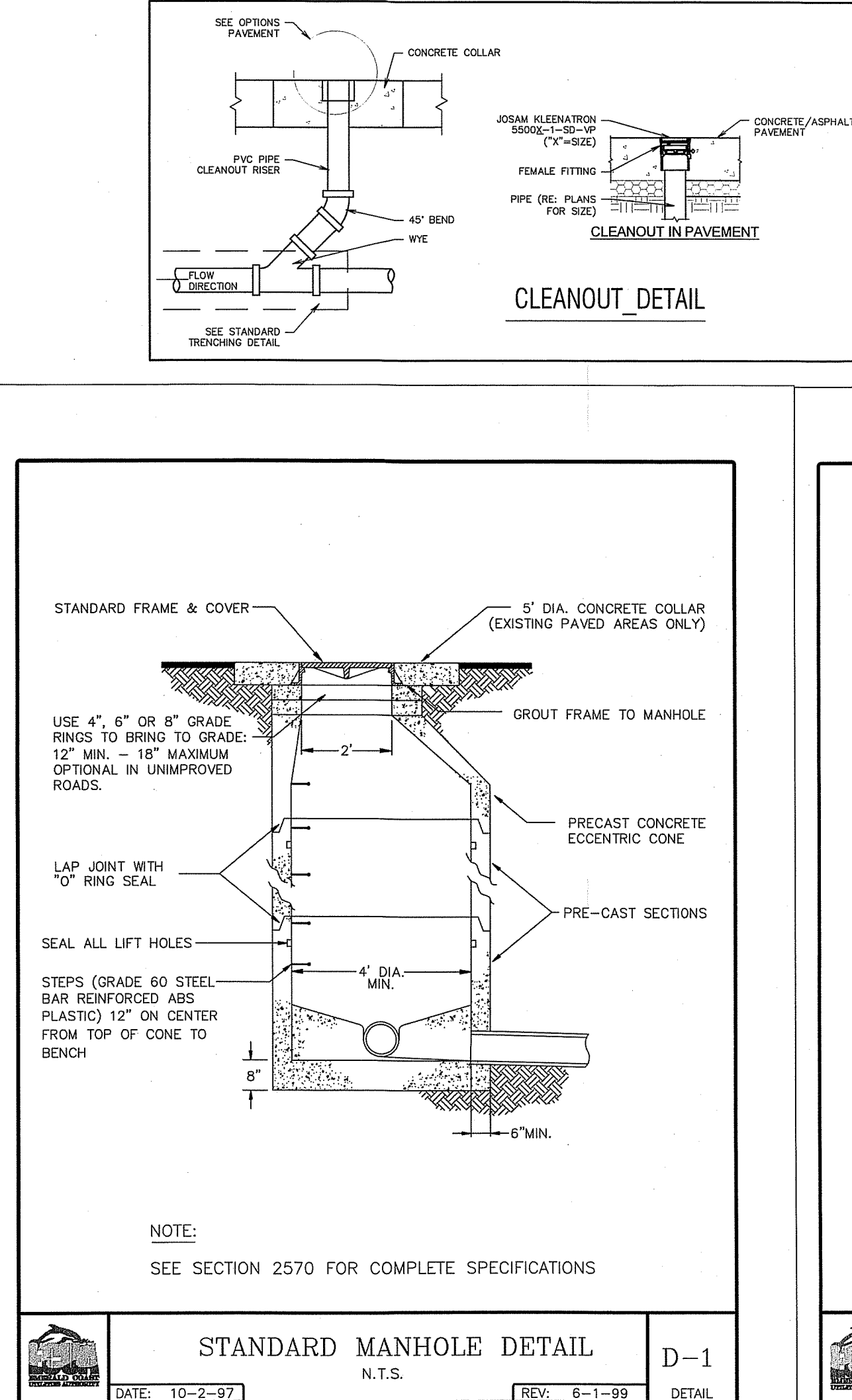
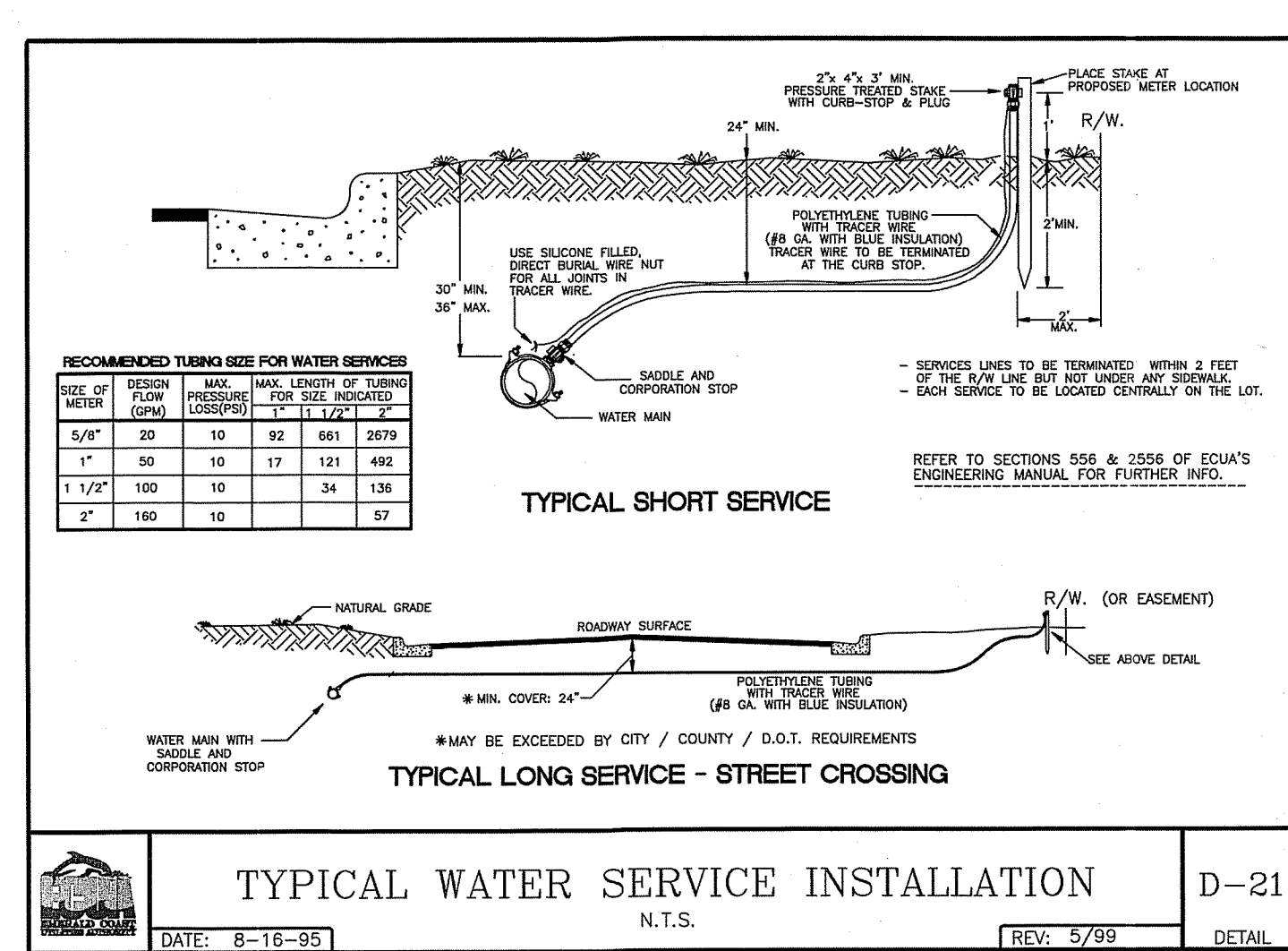
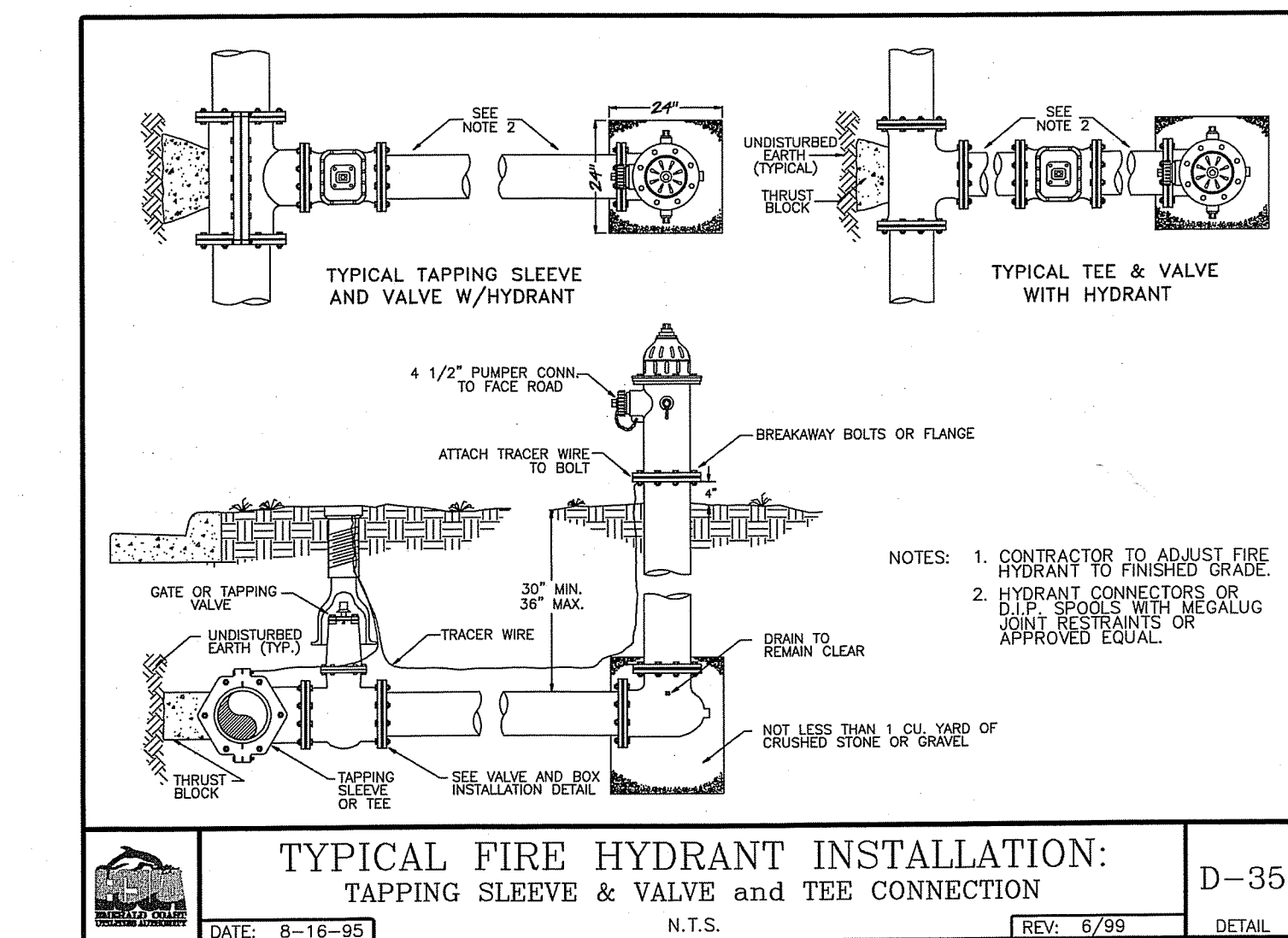
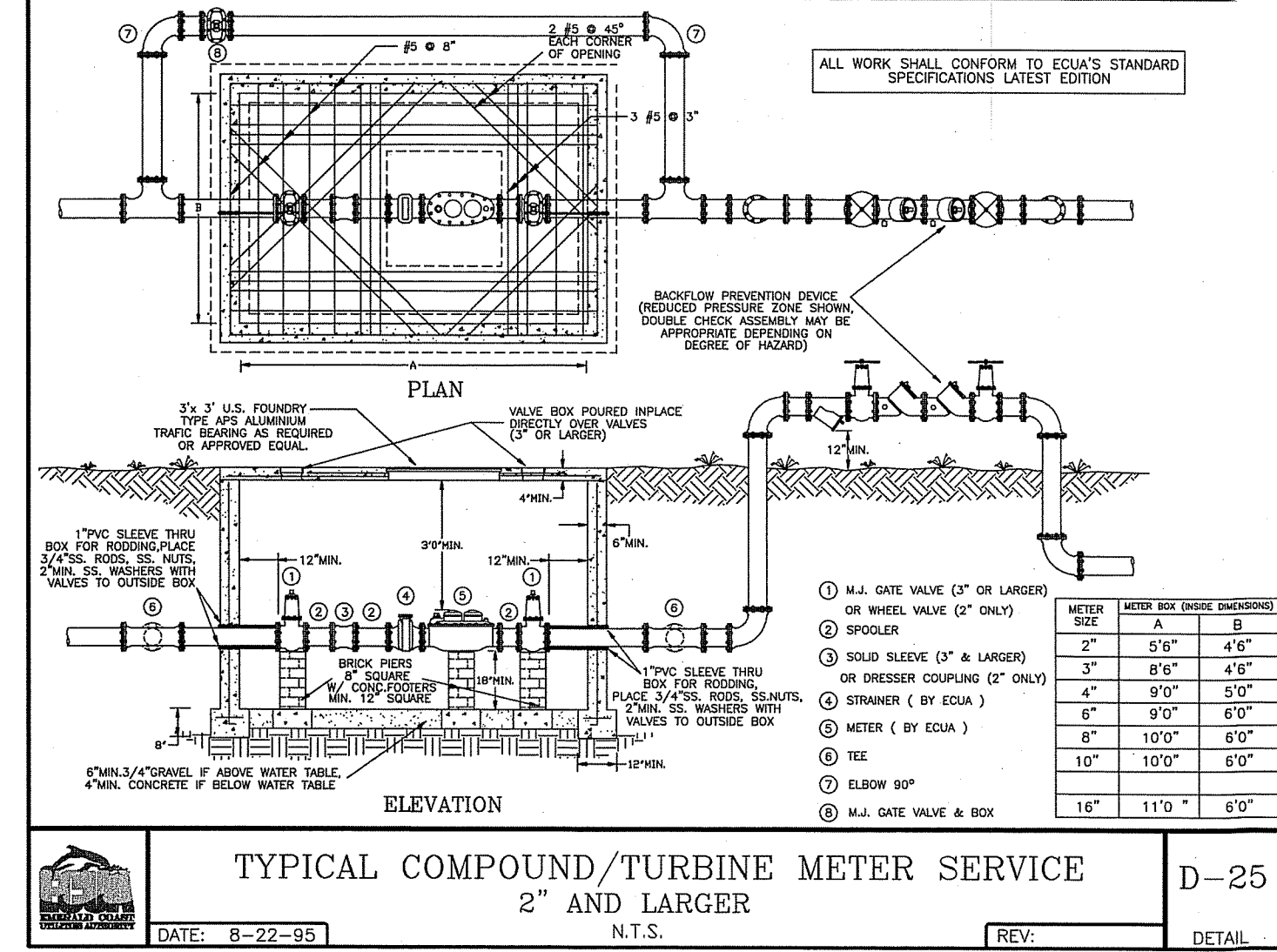
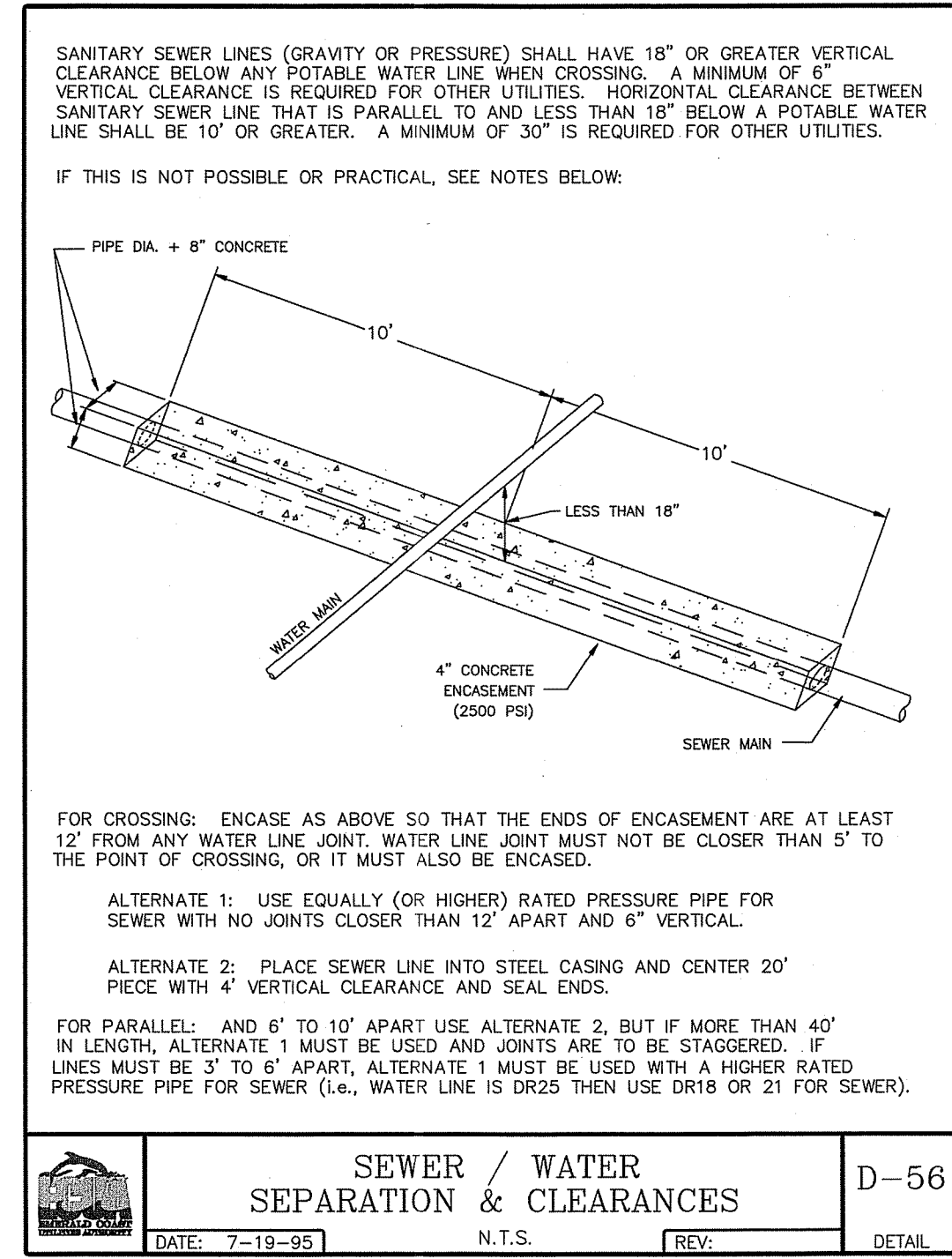
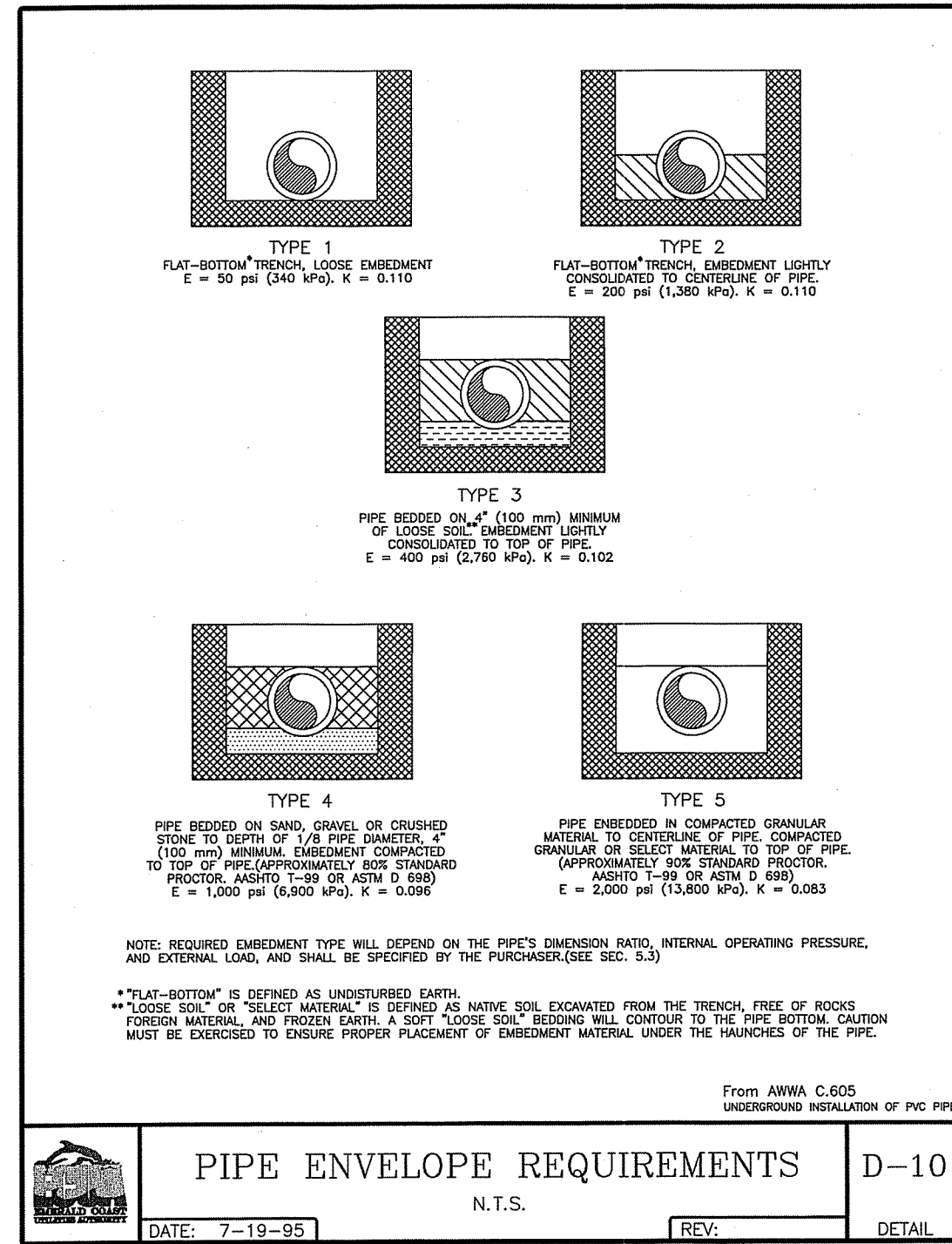
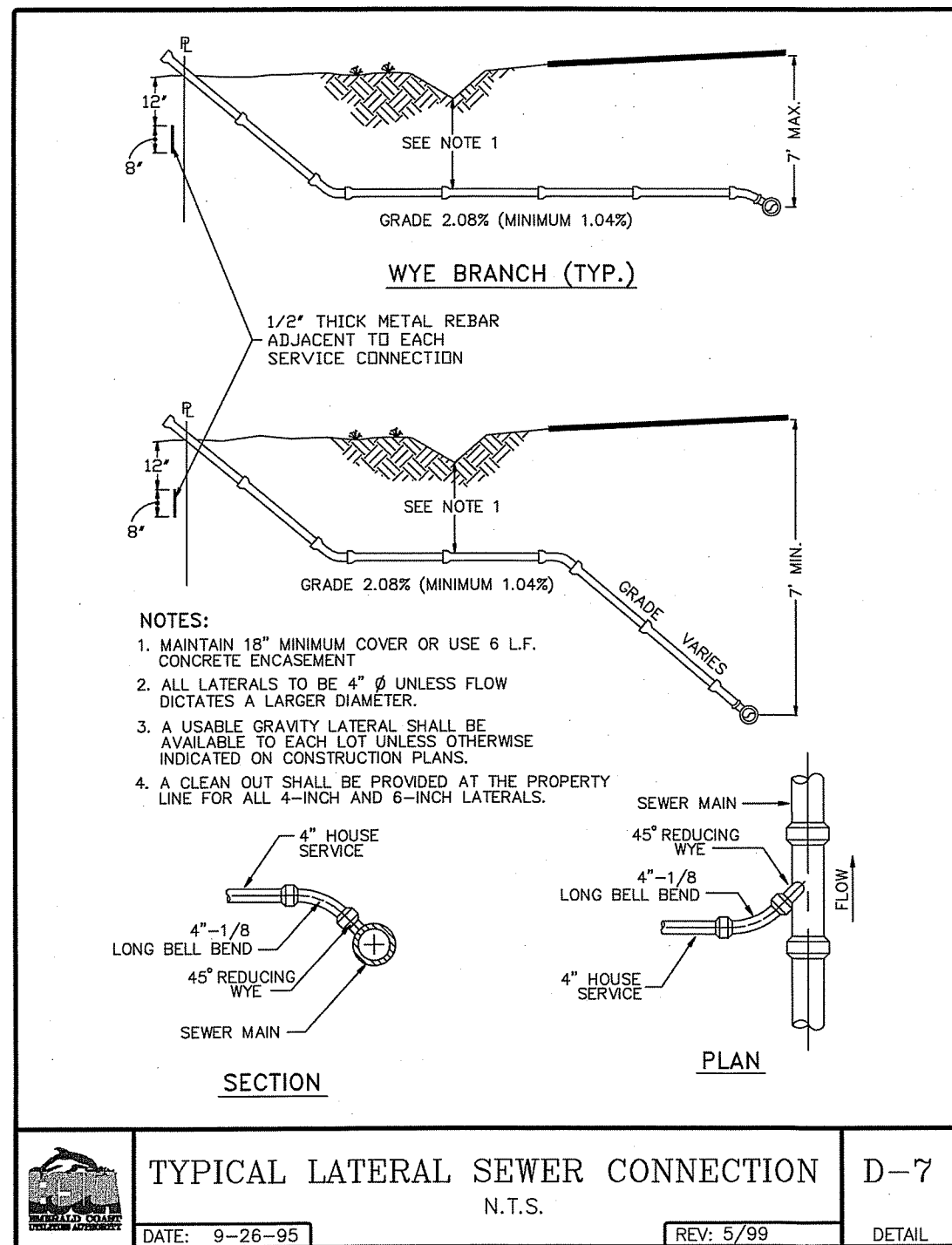
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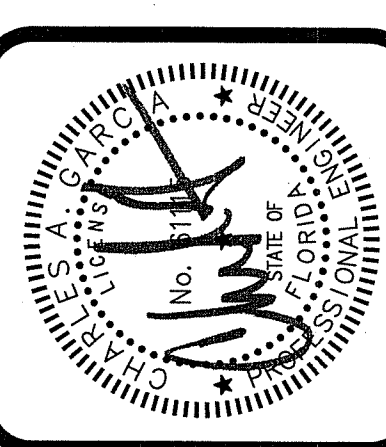


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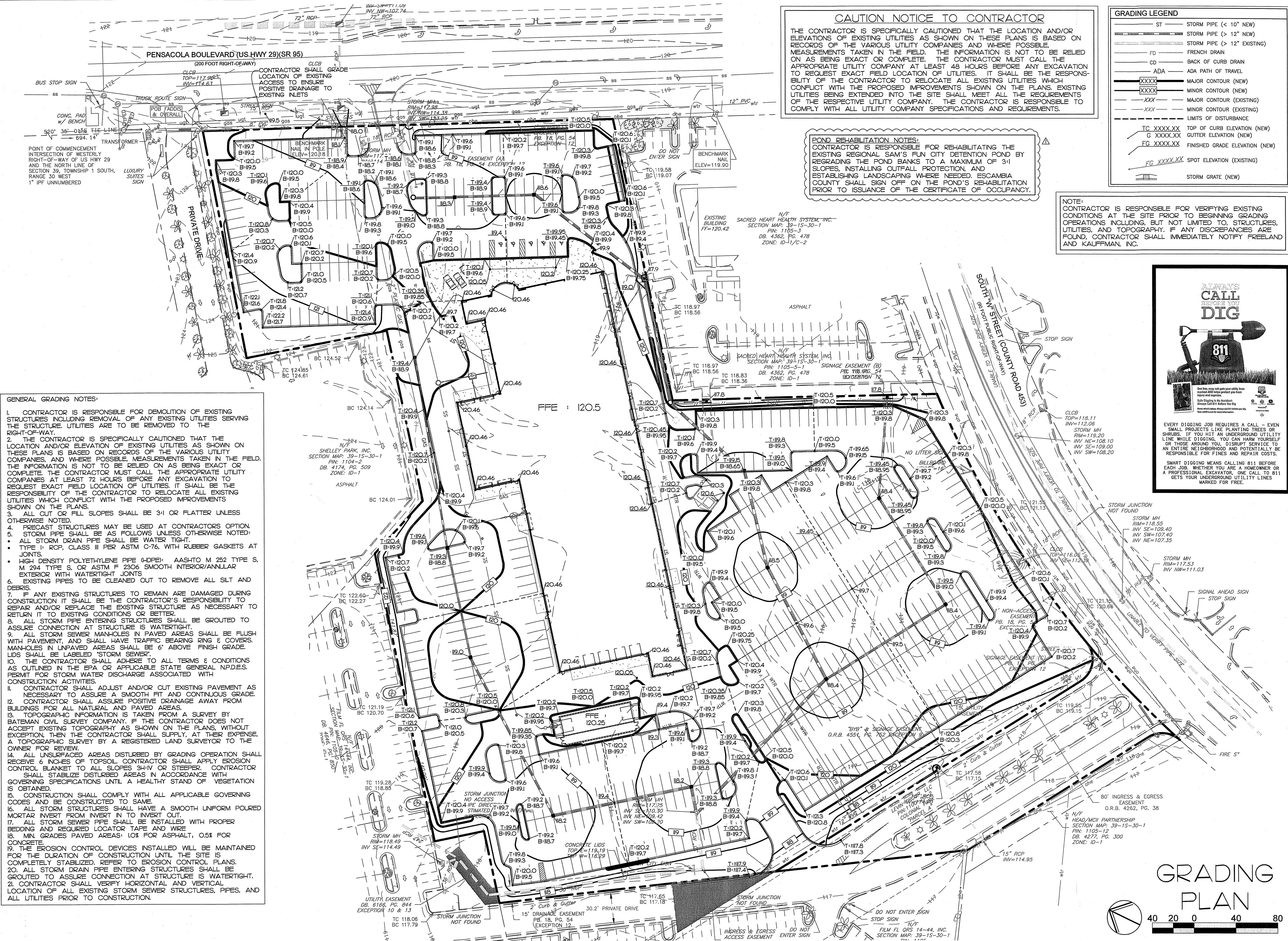
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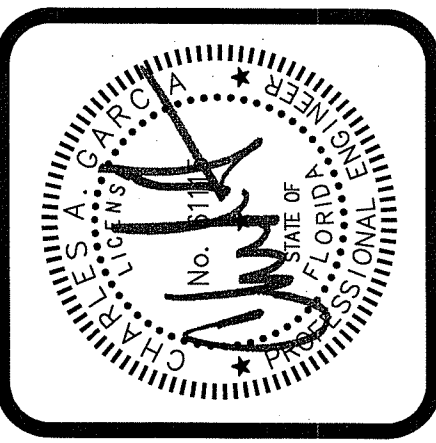


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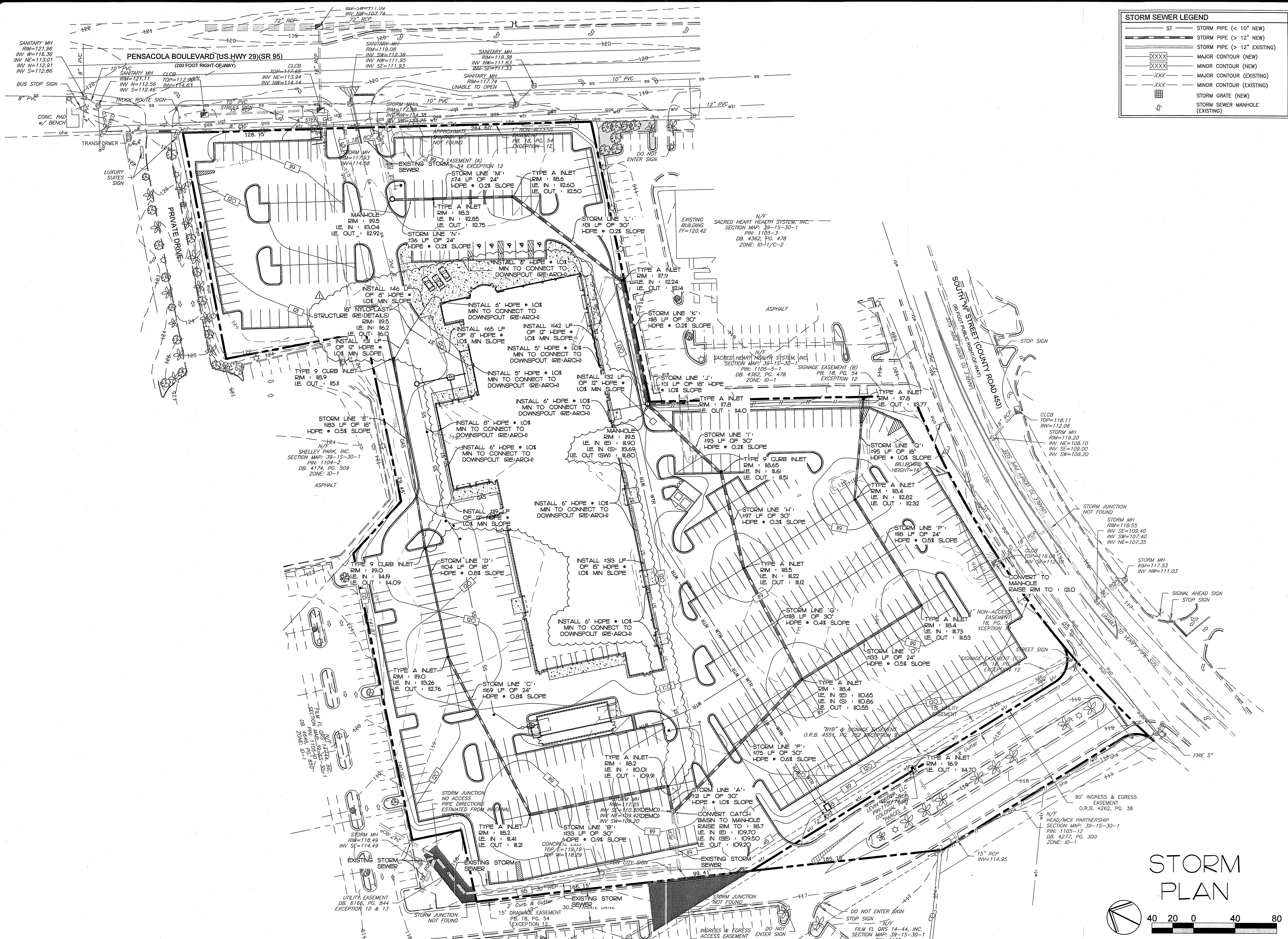


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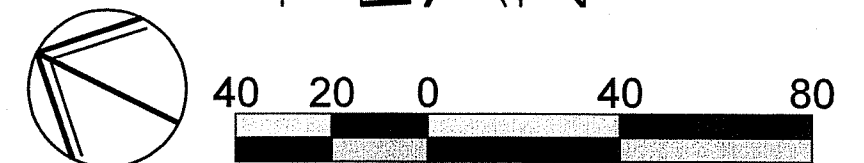
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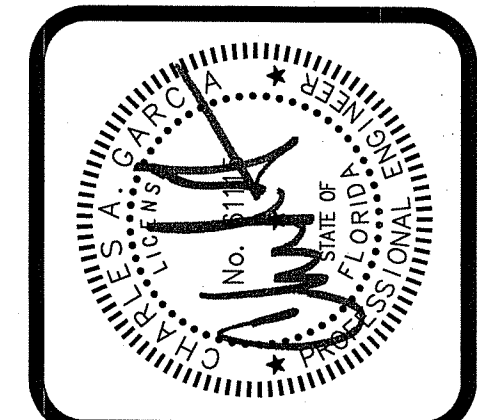
STORM SEWER LEGEND	
ST	STORM PIPE (< 10" NEW)
---	STORM PIPE (> 12" NEW)
---	STORM PIPE (> 12" EXISTING)
XXXX	MAJOR CONTOUR (NEW)
XXXX	MAJOR CONTOUR (EXISTING)
XXX	MINOR CONTOUR (NEW)
XXX	MINOR CONTOUR (EXISTING)
---	STORM GRATE (NEW)
---	STORM SEWER MANHOLE (EXISTING)

STORM PLAN



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1	2006-03-02	UTILITY/STORM REVISIONS

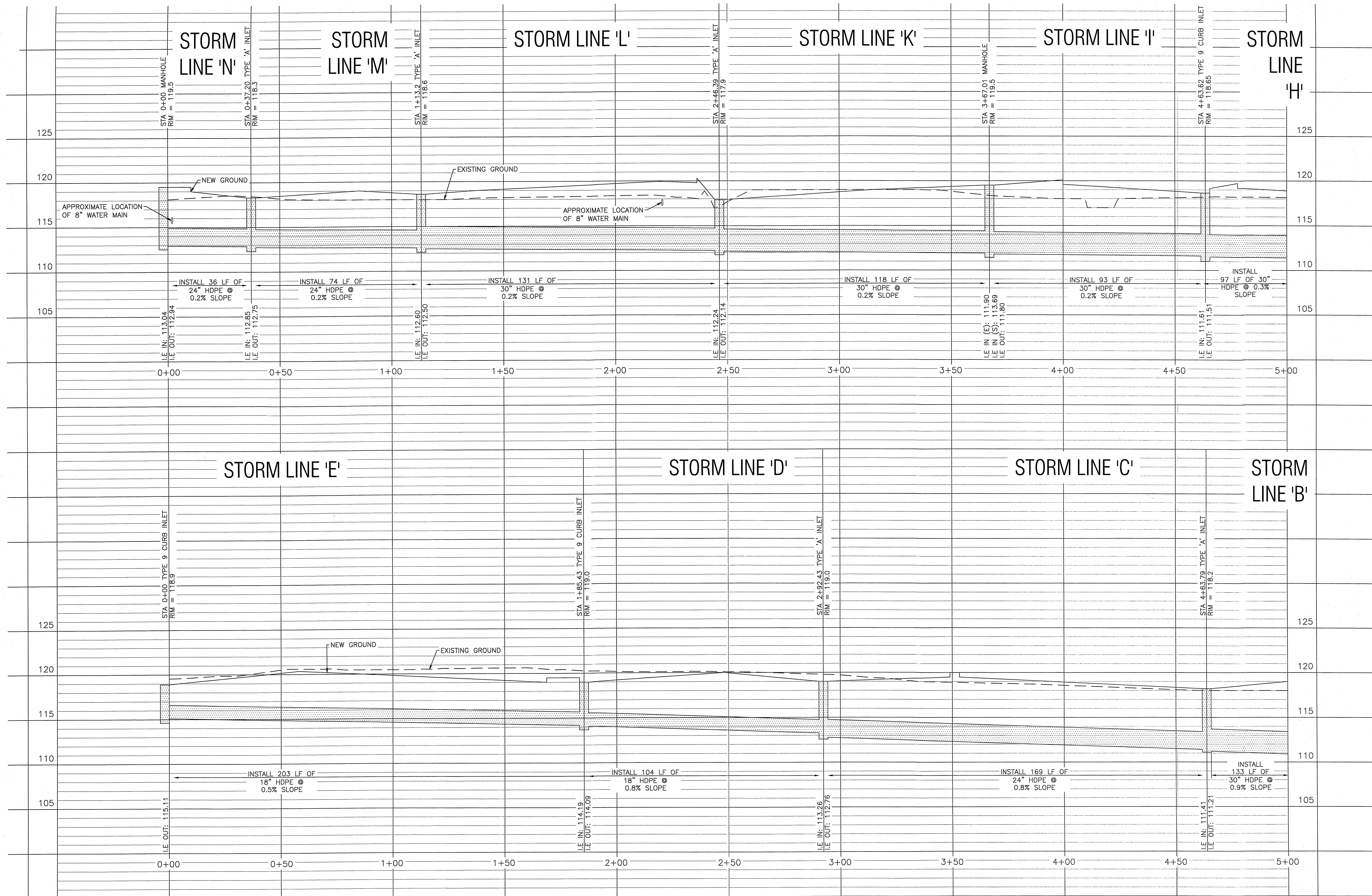
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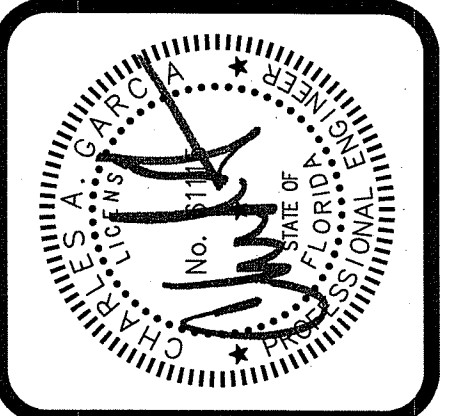


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**STORM SEWER
PROFILES**
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

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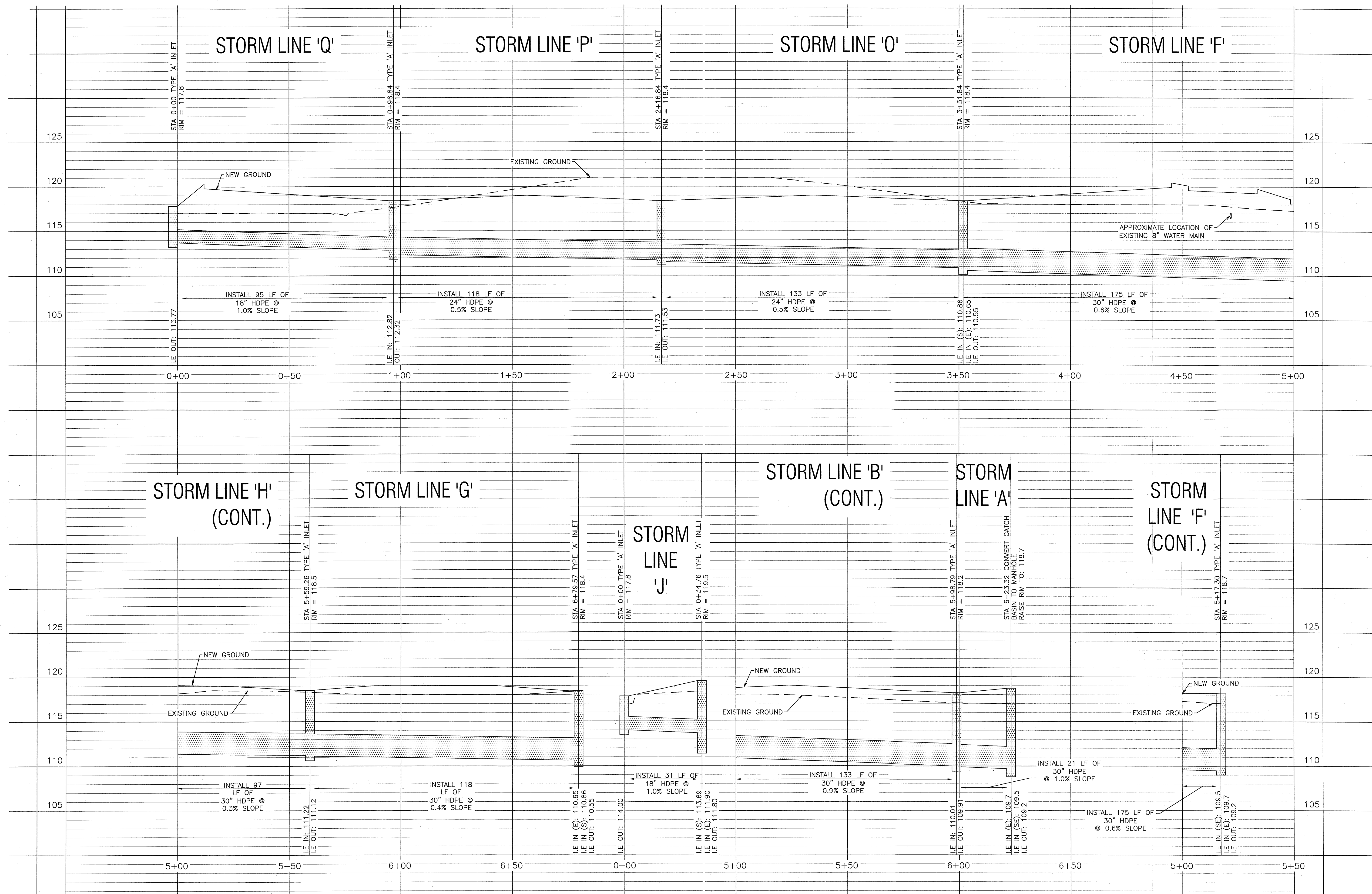


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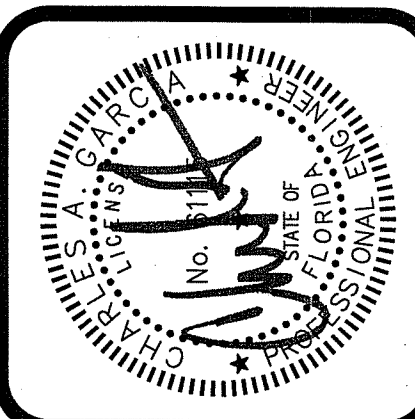


**STORM SEWER
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HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 5'

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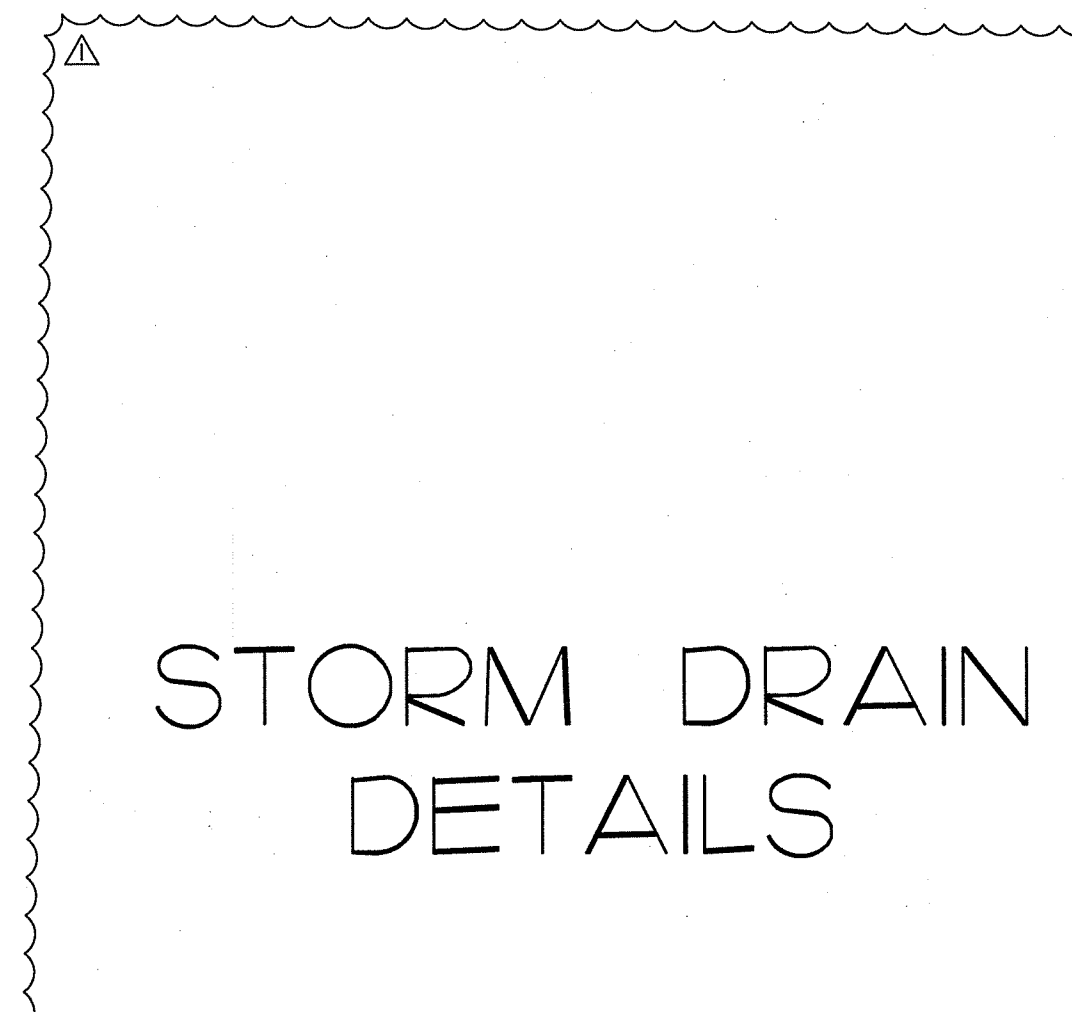
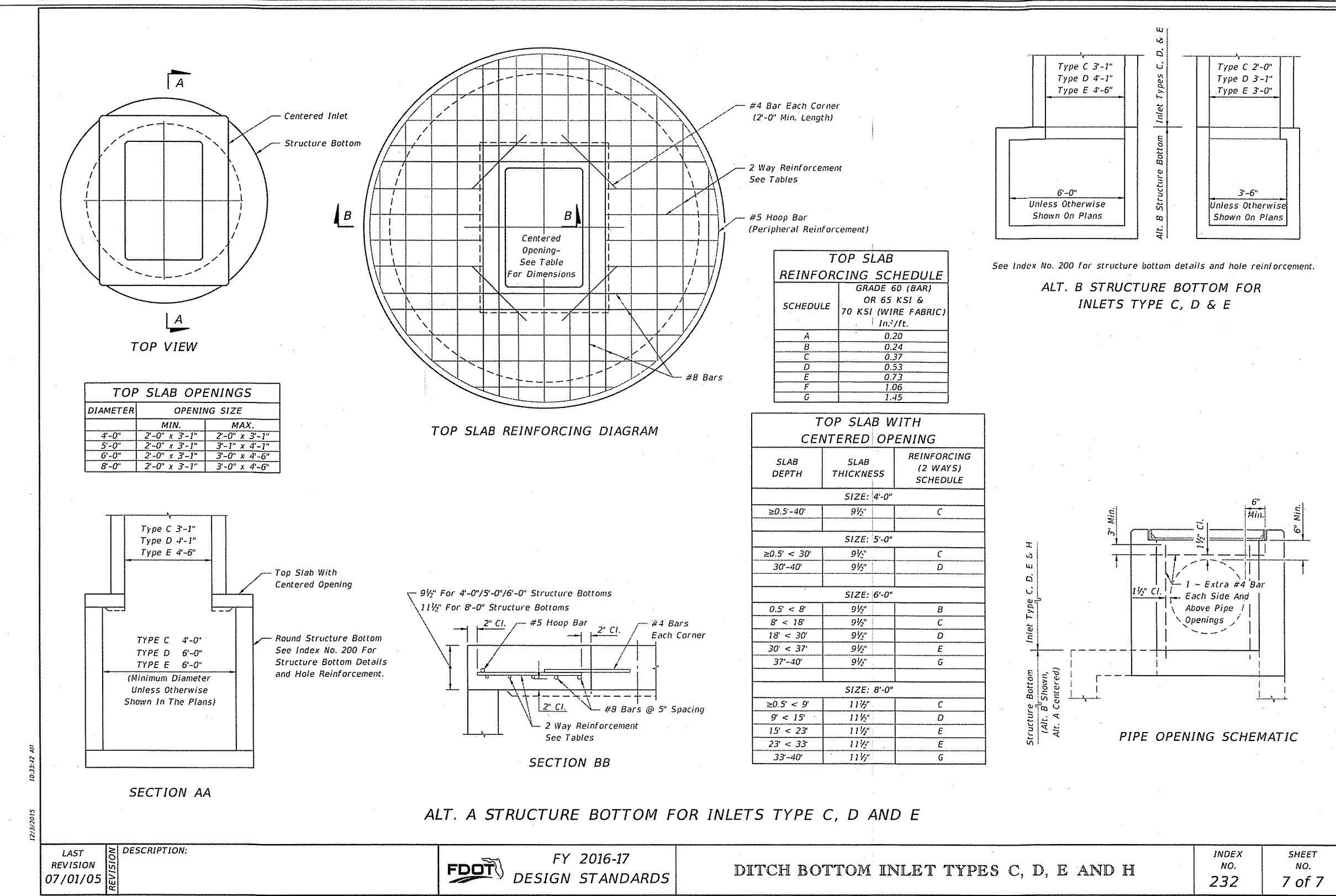
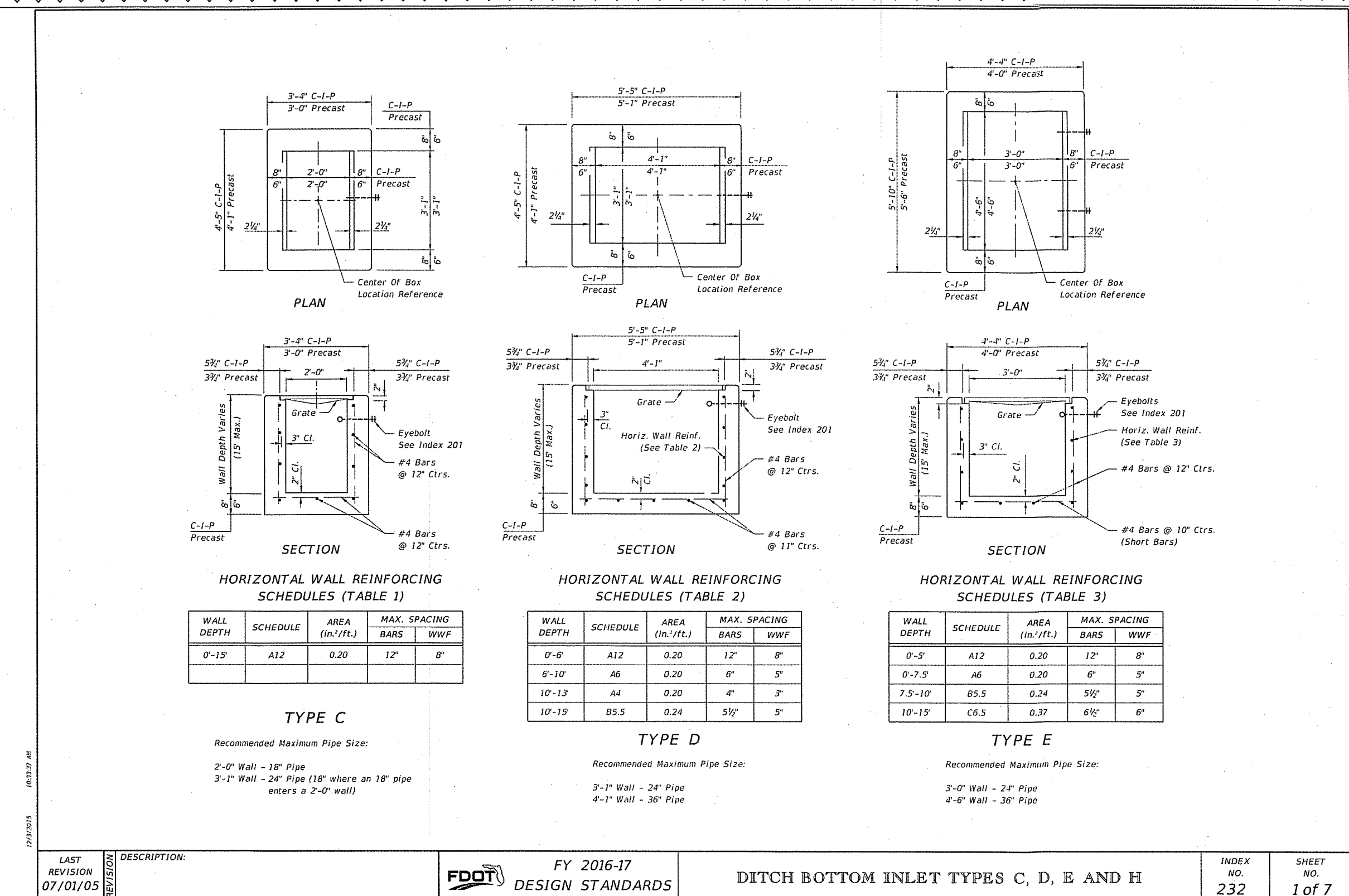


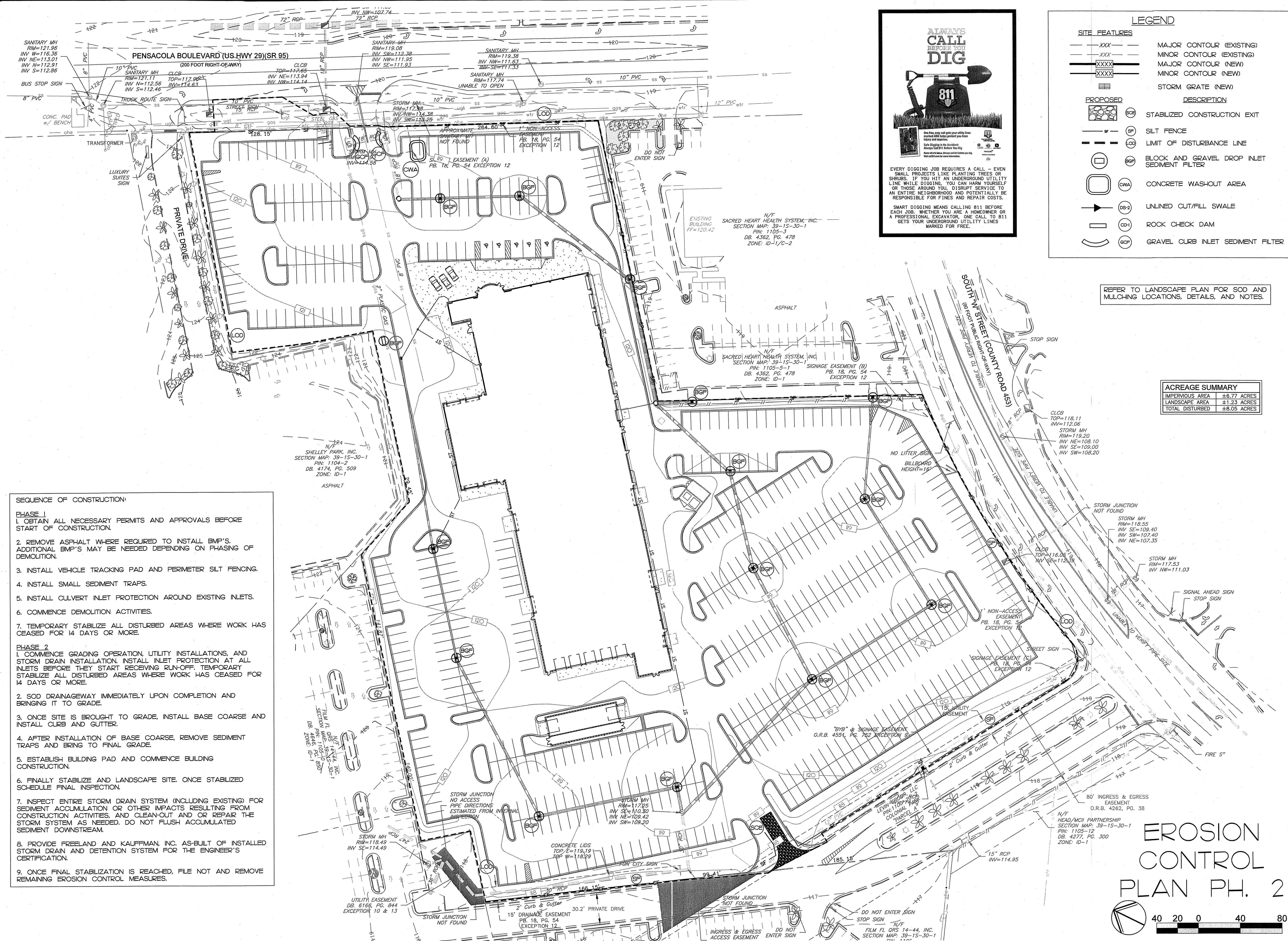
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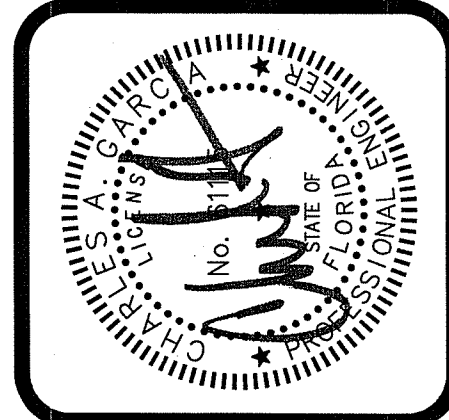




LEGEND	
SITE FEATURES	DESCRIPTION
XXX	MAJOR CONTOUR (EXISTING)
xxx	MINOR CONTOUR (EXISTING)
XXXX	MAJOR CONTOUR (NEW)
xxxx	MINOR CONTOUR (NEW)
XXXX	STORM GRATE (NEW)
PROPOSED	
XXXX	STABILIZED CONSTRUCTION EXIT
XXXX	SILT FENCE
XXXX	LIMIT OF DISTURBANCE LINE
XXXX	BLOCK AND GRAVEL DROP INLET SEDIMENT FILTER
XXXX	CONCRETE WASHOUT AREA
XXXX	UNLINED CUT/FILL SWALE
XXXX	ROCK CHECK DAM
XXXX	GRAVEL CURB INLET SEDIMENT FILTER

REFER TO LANDSCAPE PLAN FOR SOD AND MULCHING LOCATIONS, DETAILS, AND NOTES.

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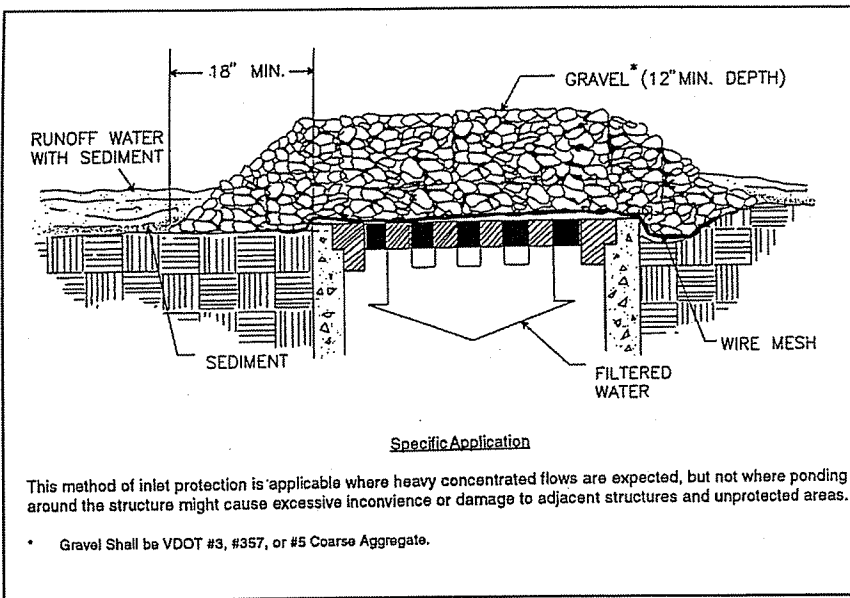


Figure 4.5c. Wire and Gravel Drop Inlet Sediment Filter
Source: Virginia DSWC

Block and Gravel Drop Inlet Sediment Filter

1. Place concrete blocks lengthwise on their sides in a single row around the perimeter of the inlet, with the ends of adjacent blocks abutting. The height of the barrier can be varied, depending on design needs, by stacking combinations of 4, 8, and 12 inch wide (10, 20, and 30 cm) blocks. The barrier of blocks shall be at least 12 inches (30 cm) high and no greater than 24 inches (60 cm) high.
2. Wire mesh shall be placed over the outside vertical face (webbing) of the concrete blocks to prevent stone from being washed through the holes in the blocks. Hardware cloth or comparable wire mesh with 1/2 inch (13 mm) openings shall be used (see Figure 4.5d).
3. Stone shall be piled against the wire to the top of the block barrier. Suitable coarse aggregate shall be used (see Figure 4.5d).
4. If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stone must be pulled away from the blocks, cleaned, and replaced.

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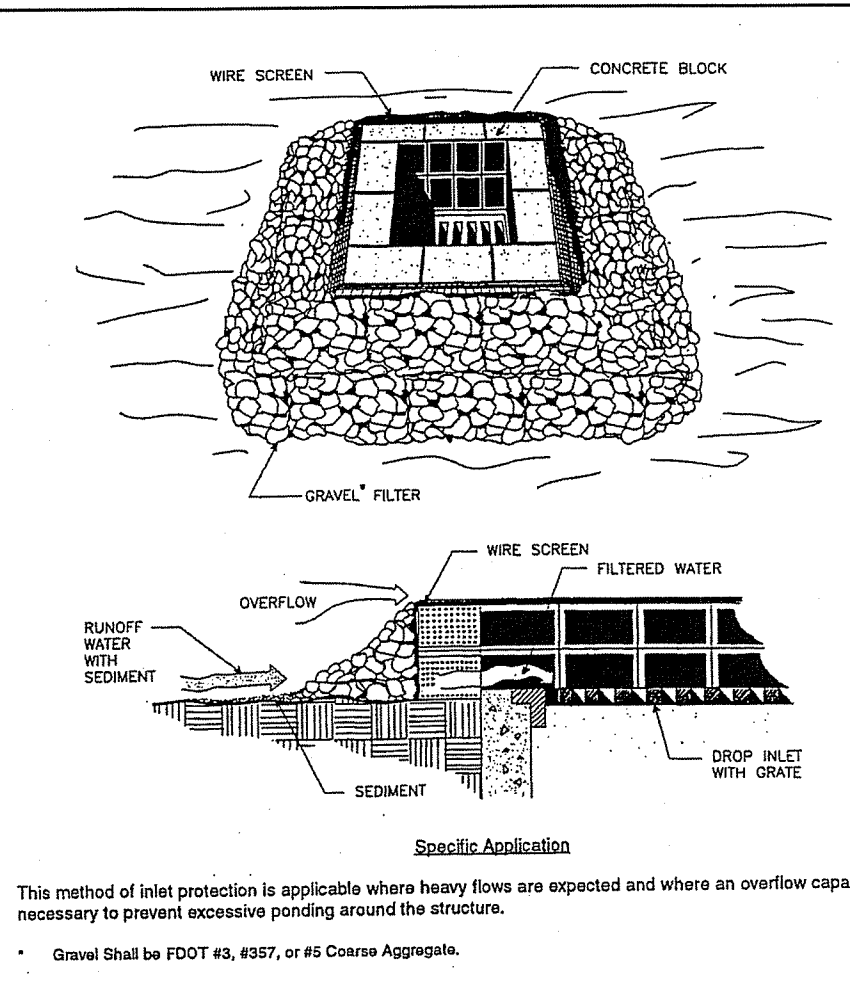


Figure 4.5d. Block and Gravel Drop Inlet Sediment Filter
Source: Michigan Soil Erosion and Sedimentation Control Guidebook

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Gravel Curb Inlet Sediment Filter

1. Hardware cloth or comparable wire mesh with 1/2 inch (13 mm) openings shall be placed over the curb inlet opening so that at least 12 inches (30 cm) of wire extends across the top of the inlet cover and at least 12 inches (30 cm) of wire extends across the concrete gutter from the inlet opening (see Figure 4.5g).
2. Stone shall be piled against the wire so as to anchor it against the gutter and inlet cover and to cover the inlet opening completely. FDOT No. 1 Coarse Aggregate shall be used.
3. An overflow weir can be constructed of 2 x 4 inch (5 x 10 cm) boards to lessen ponding from this practice (see Figure 4.5h).
4. If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stone must be pulled away from the block, cleaned, and replaced.

Block and Gravel Curb Inlet Sediment Filter

1. Two concrete blocks shall be placed on their sides abutting the curb at either side of the inlet opening (see Figure 4.5i).
2. A 2 x 4 inch (5 x 10 cm) board shall be cut and placed through the outer holes of each spacer block to help keep the front blocks in place.
3. Concrete blocks shall be placed on their sides across the front of the inlet and abutting the spacer blocks (see Figure 4.5i).
4. Wire mesh shall be placed over the outside vertical face (webbing) of the concrete blocks to prevent stone from being washed through the holes in the blocks. Hardware cloth with 1/2 inch (13 mm) openings shall be used.
5. FDOT No. 1 Coarse Aggregate shall be piled against the wire to the top of the barrier.

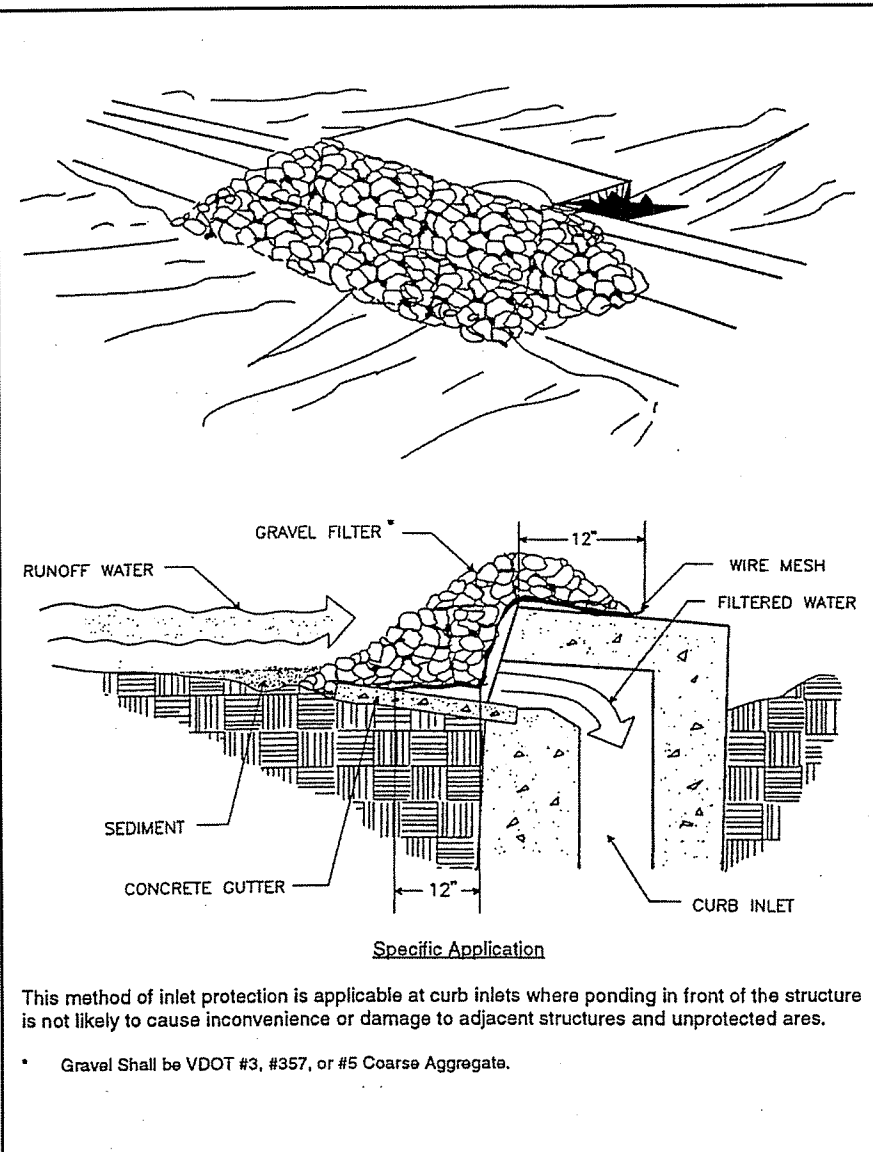


Figure 4.5g. Gravel Curb Inlet Sediment Filter
Source: Virginia DSWC

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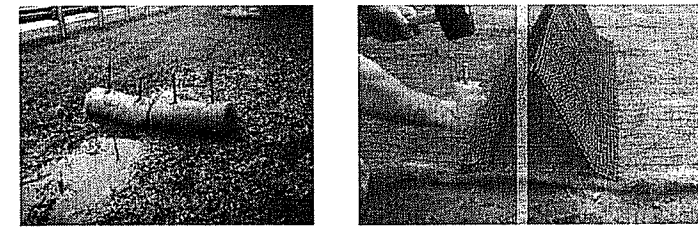
4.8 Temporary Check Dam

Definition

A small, temporary dam constructed across a swale or stormwater conveyance channel.

Purpose

To reduce the velocity of concentrated stormwater flows, thus reducing erosion of the swale or ditch. This practice also traps small amounts of sediment generated in the ditch itself. These sediments require periodic removal. However, this is not a sediment-trapping practice and should not be used as such.



Conditions Where Practice Applies

This practice is limited to use in small, open channels that drain 10 acres (4 ha) or less, and should not be used in a live stream. It is especially applicable to sloping sites where the gradient of waterways is close to the maximum for a grass lining. Some specific applications include the following:

1. Temporary ditches or swales that, because of their short length of service, cannot receive a nonerodible lining but still need some protection to reduce erosion.
2. Permanent ditches or swales that for some reason cannot receive a permanent, nonerodible lining for an extended period.
3. Either temporary or permanent ditches or swales that need protection during the establishment of grass linings.

Planning Considerations

Temporary check dams can be constructed of stone, filter socks, or a variety of prefabricated products.

Construction Specifications

No formal design is required for a temporary check dam; however, a number of criteria should be adhered. The drainage area of the ditch or swale being protected should not exceed 10 acres (4 ha). The maximum height of the check dam should be 2 feet (60 cm). The center of the check dam must be at least 6 inches (15 cm) lower than the outer edges (see Figure 4.8a). The maximum spacing between the dams should be

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such that the top of the upstream dam is at the same elevation as the top of the downstream dam (see Figure 4.8a).

Stone check dams should be constructed of FDOT No. 1 Coarse Aggregate (1.5 to 3.5 inch) (4 to 9 cm) stone. The stone should be placed according to the configuration in Figure 4.8b. Hand or mechanical placement will be necessary to achieve complete coverage of the ditch or swale and to ensure that the center of the dam is lower than the ends (see Figure 4.8b).

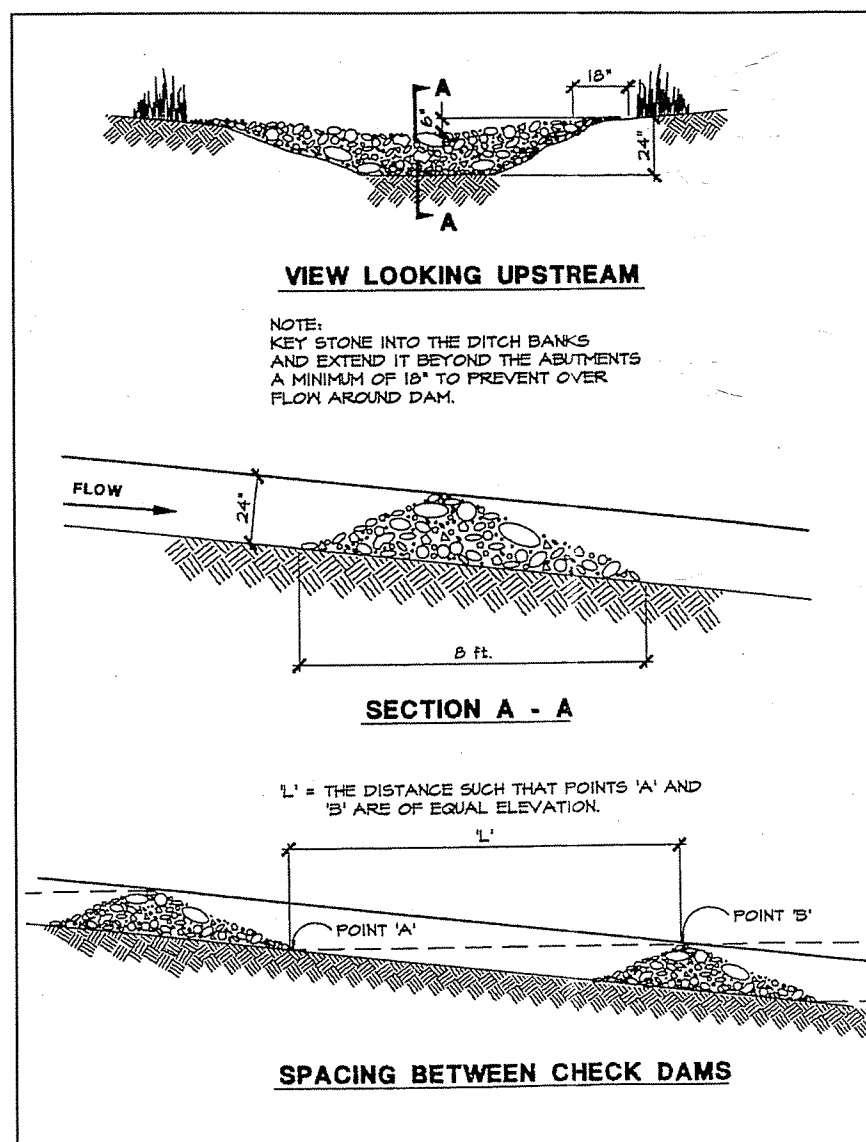


Figure 4.8a. Rock Check Dam
Source: Erosion Draw

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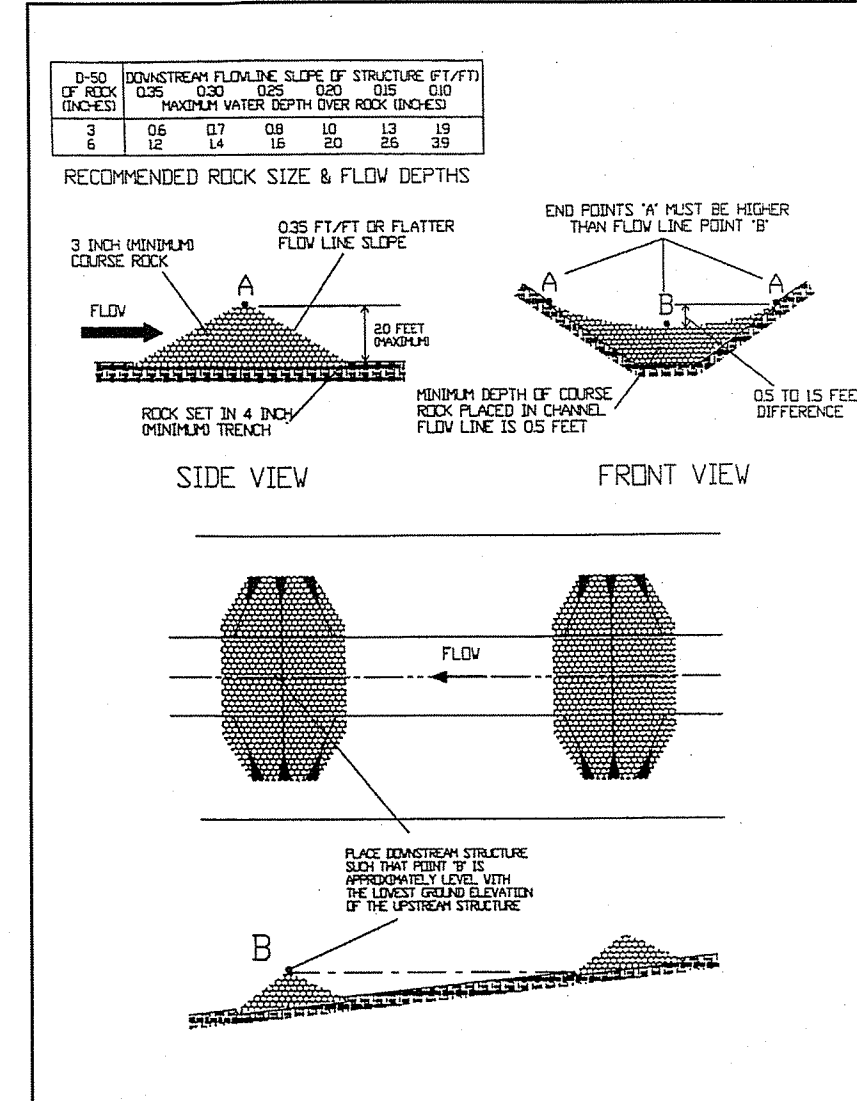


Figure 4.8b. Rock Check Dam Details
Source: HydoDynamics, Inc.

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Maintenance

Check dams should be checked for sediment accumulation after each significant rainfall. Sediment should be removed when it reaches one-half of the original height or before. Regular inspections should be made to ensure that the center of the dam is lower than the edges. Erosion caused by high flows around the edges of the dam should be corrected immediately.

Removal

Check dams must be removed when their useful life has been completed. In temporary ditches and swales, check dams should be removed and the ditch filled in when it is no longer needed. In permanent structures, check dams should be removed when a permanent lining can be installed. In grass-lined ditches, check dams should be removed when the grass has matured sufficiently to protect the ditch or swale. The area beneath the check dams should be seeded and mulched or sodded (depending on velocity) immediately after the dams are removed.

If stone check dams are used in grass-lined channels that will be mowed, care should be taken to remove all the stone from the dam when the dam is removed. This should include any stone that has washed downstream.

4.4.4 Temporary Fill Diversion

Definition

A channel with a supporting ridge on the lower side cut along the top of an active earth fill.

Purpose

To divert storm runoff away from the unprotected slope of the fill to a stabilized outlet or sediment-trapping facility.

Conditions Where Practice Applies

Where the drainage area at the top of an active earth fill slopes toward the exposed slope and where continuous fill operations make the use of a DIVERSION (Chapter 6) unfeasible. This temporary structure should remain in place for less than one week.

Planning Considerations

One important principle of erosion and sediment control is to keep stormwater runoff away from exposed slopes. This is often accomplished by installing a berm, diversion, or paved ditch at the top of a slope to carry the runoff away from the slope to a stabilized outlet or down drain. In general, these measures are installed after the final grade has been reached. On cuts, the measures may be installed at the beginning, since the work proceeds from the top and the measures have little chance of being covered or damaged. On fills, the work proceeds from the bottom to the top and the elevation changes daily. It is therefore not feasible to construct a compacted berm or permanent diversion that may be covered by the next day's activity.

The temporary fill diversion is intended to provide some slope protection on a daily basis until final elevations are reached and a more permanent measure can be constructed. This measure can be carried out using a motor grader or one of the smaller bulldozers. To shape the diversion, the blade of machinery used may run near the edge of the fill with its blade tilted to form the channel, as described in Figure 4.4f. This work should be done at the end of the working day and should provide a channel with a berm on the lower side to protect the slope. Whenever possible, the temporary diversion should be sloped to direct water to a stabilized outlet. If the runoff is diverted over the fill itself, the practice may cause more problems than it solves by concentrating water at a single point.

Good timing is essential to fill construction. The filling operation should be completed as quickly as possible and the permanent slope protection measures and slope stabilization measures installed as soon after completion as possible. With quick and proper construction, the developer or contractor will save both time and money in building, repairing, and stabilizing the fill area. The longer the period for construction and stabilization, the more prone the fill operation is to erosion damage. Repairing the damage adds time and expense to the project.

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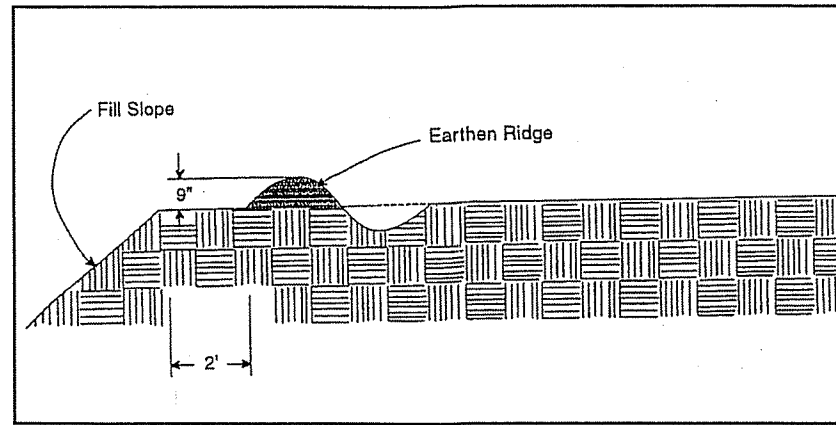


Figure 4.4f. Temporary Fill Diversion
Source: Virginia DSWC

Design Criteria

No formal design is required. The following criteria shall be met:

Drainage Area

The maximum allowable drainage area is 5 acres (2 ha).

Height

The minimum height of the supporting ridge shall be 9 inches (23 cm) (see Figure 4.4f).

Grade

The channel shall have a positive grade to a stabilized outlet.

Outlet

The diverted runoff should be released through a stabilized outlet, slope drain, or sediment-trapping measure.

Construction Specifications

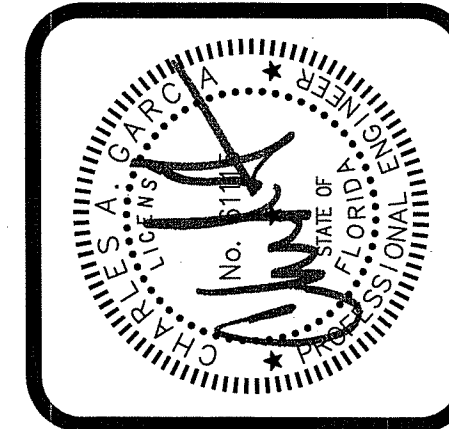
1. The diversion shall be constructed at the top of the fill at the end of each workday as needed.
2. The diversion shall be located at least 2 feet (60 cm) inside the top edge of the fill (see Figure 4.4f).
3. The supporting ridge of the lower side shall be constructed with a uniform height along its entire length.

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Maintenance

Since the diversion is temporary and under most situations will be covered the next workday, the maintenance required should be low. If it is to remain in use for more than one day, the structure must be inspected at the end of each workday and repairs made if needed. The contractor should avoid placing any material over the structure while it is in use. Construction traffic should not be permitted to cross the diversion.

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