

**BOARD OF COUNTY COMMISSIONERS
 ESCAMBIA COUNTY, FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING / INFRASTRUCTURE DIVISION**

**PLANS PROPOSED FOR
 CROCKET STREET
 & CRESTFIELD CIRCLE
 DRAINAGE IMPROVEMENTS
 STORMWATER DRAINAGE**

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CONSULTANT PROJECT NO.

MM PROJECT NO. - 333166

M	Mott MacDonald
	220 West Garden Street Suite 700 Pensacola, FL 32502 United States of America T +1 (850) 484 6011 www.mottmac.com/americas
MOTT MACDONALD	
Architects Engineers Surveyors AA - C0000035 EB - 0000155 LB - 0006783	

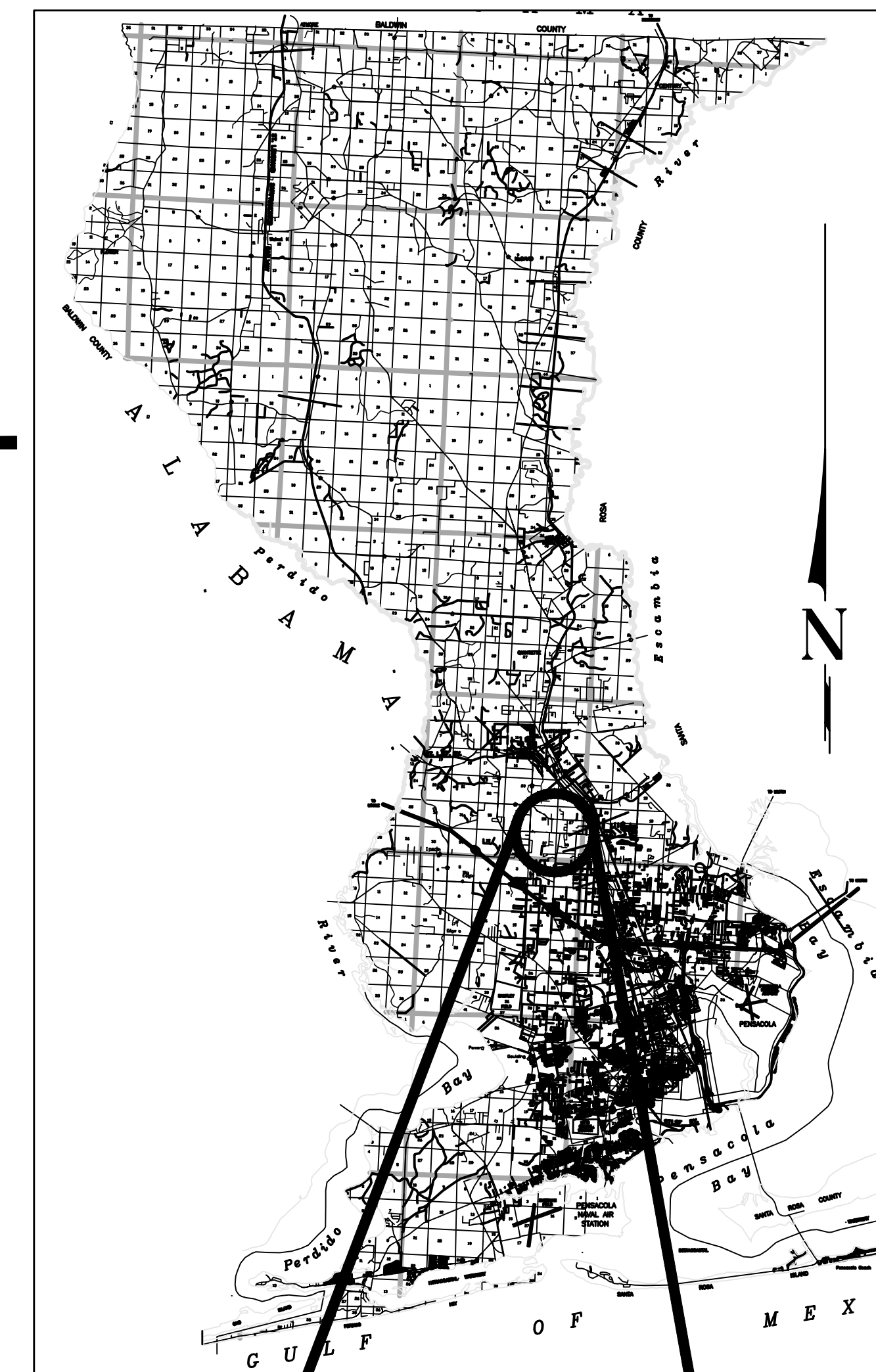
THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE LATEST ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

**100% DESIGN PLANS
 NOT FOR CONSTRUCTION
 FEBRUARY 2018**

COMMISSIONERS

- | | |
|----------------|---------------------------|
| DISTRICT ONE | JEFF BERGOSH (CHAIRMAN) |
| DISTRICT TWO | DOUG UNDERHILL |
| DISTRICT THREE | LUMON MAY (VICE CHAIRMAN) |
| DISTRICT FOUR | GROVER C. ROBINSON IV |
| DISTRICT FIVE | STEVEN BARRY |



END PROJECT
STA. 18+00.00

BEGIN PROJECT
STA. 10+00.00

VICINITY MAP

**LENGTH OF PROJECT = XX LF
 XX MI**

PROJECT MANAGER: STEVEN D. WHITE	
SECTION / TOWNSHIP / RANGE: 37 / 1N / 31W	DISTRICT: 3
PROJECT ENGINEER: STEVEN D. WHITE	REG FLA ENG NO: 58809
SIGNATURE:	DATE:

GENERAL NOTES:

1. THE CONTRACTORS SHALL NOTIFY THE COUNTY DESIGN ENGINEER OR DESIGNEE 48 HOURS PRIOR TO CONSTRUCTION.
2. ALL CONDITIONS AND STIPULATIONS OF THE CONSTRUCTION PERMITS AND THE APPROVALS ISSUED BY THE ESCAMBIA COUNTY ENGINEER SHALL BE COMPLIED WITH IN EVERY DETAIL.
3. ALL ROADS DAMAGED BY CONSTRUCTION OPERATIONS ARE TO BE PATCHED OR RECONSTRUCTED AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.
4. THE CONTRACTOR SHALL TAKE STEPS NECESSARY TO PREVENT EROSION AND ANY OFF SITE SEDIMENT TRANSPORT RESULTING FROM INCREASED RUNOFF DURING CONSTRUCTION BY PROVIDING SILT FENCE AND/OR STAKED HAY BALES AS REQUIRED BY FDOT INDEX 102, THE FLORIDA STORMWATER, EROSION, AND SEDIMENT CONTROL INSPECTOR'S MANUAL, 2000 EDITION, OR AS INDICATED ON THE PLANS. ALL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ASSOCIATED DISTURBED AREAS ARE STABILIZED AS TO REDUCE SEDIMENT RUNOFF, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR DESIGNEE.
5. ANY NECESSARY PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ESCAMBIA COUNTY OR ITS DESIGNEE WILL ASSIST CONTRACTOR WITH REQUIRED PERMITS.
6. THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING AND/OR CONSTRUCTION.
7. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PRESERVE OR RELOCATE ALL BENCHMARKS (VERTICAL CONTROL) AS NEEDED DURING CONSTRUCTION. ALL PUBLIC OR PRIVATE CORNER MONUMENTATION SHALL BE PROTECTED. IF A PUBLIC OR PRIVATE CORNER MONUMENTATION IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR DESIGNEE IMMEDIATELY. ANY ESCAMBIA COUNTY HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A HARN/GPS NETWORK MONUMENTS OR BUREAU OF SURVEY AND MAPPING GPS NETWORK MONUMENTS ARE DISTURBED OR DESTROYED THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELACEMENT OF THE MONUMENTS AND HAVE THE MONUMENTS POSITION DETERMINED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER USING GUIDELINES AS ESTABLISHED BY NATIONAL GEODETIC SURVEY FOR BLUE BOOKING AND APPROVAL.
8. EXISTING DRAINAGE FEATURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
9. THE CONTRACTOR SHALL MATCH EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.
10. EXISTING STREETS AND DRIVES SHALL BE MAINTAINED TO LOCAL TRAFFIC AND PROPERTY OWNERS.
11. ALL ROADWAY CONSTRUCTION SHALL COMPLY WITH THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.
12. ALL MATERIALS, TESTING AND CONSTRUCTION METHODS SHALL CONFORM TO THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.
13. ANY REFERENCE TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, DIVISION 1, GENERAL REQUIREMENTS AND COVENANTS, SHALL BE EXCLUDED AND NOT APPLICABLE TO ANY SPECIFICATION REFERRED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.
14. EXISTING STREET AND ROAD NAME SIGNS ON THE PROJECT SHALL BE KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLES. ALL OTHER EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE TAKEN DOWN AND STOCKPILED WITHIN THE R/W LIMITS BY THE CONTRACTOR AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE. ANY EXISTING SIGNS THAT ARE TO BE RELOCATED AND ARE DAMAGED BEYOND USE BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
15. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE 10' OPEN LANE AT ALL TIMES. NO OPEN EXCAVATION SHALL REMAIN OVER NIGHT. CONTRACTOR SHALL RESTORE ROAD TO TWO LANES OF TRAFFIC AT THE END OF EACH WORK DAY.
16. CONTRACTOR SHALL COMPLY WITH ALL F.D.E.P. AND ARMY CORP. OF ENGINEERS REQUIREMENTS.
17. ONLY ACCESS TO THE ROAD R/W AS SHOWN IS GUARANTEED BY THE COUNTY. PRIVATE R/W REQUIRED BY THE CONTRACTOR TO FACILITATE CONSTRUCTION SHALL BE ACQUIRED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION OR ASSISTANCE FROM THE COUNTY.
18. IN THE EVENT THAT SURVEY MONUMENTATION OR REFERENCE POINTS ARE MISSING OR HAVE BEEN DESTROYED, PLEASE CONTACT:
JOSEPH BARRETT
ESCAMBIA COUNTY SURVEYOR
3363 WEST PARK PLACE
PENSACOLA, FLORIDA 32505 PH (850) 595-3427
19. VEGETATION ON R/W AND EASEMENTS SHALL BE RESTORED TO ORIGINAL CONDITION UNLESS OTHERWISE NOTED ON THE PLAN SHEETS. COST OF SAID RESTORATION SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS.
20. GRADED AGGREGATE BASE SHALL BE REQUIRED WHERE THE SEASONAL HIGH GROUND WATER ENCROACHES WITHIN TWO (2) FEET OF THE BOTTOM OF BASE.
21. ALL TREES WITHIN LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE NOTED IN PLANS.
22. ALL COMPACTED FILL SHALL BE PLACED IN 4" LIFTS FOR HAND POWERED TAMPERS AND 8" LIFTS FOR HEAVY EQUIPMENT OPERATED TAMPERS.
23. MAINTENANCE OF TRAFFIC AS PER FDOT INDEX 600.
24. ALL SPEED BUMPS THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE REPLACED TO THE LATEST ESCAMBIA COUNTY DESIGN SPECIFICATIONS. ALL COSTS FOR REPLACEMENT OF SAID SPEED BUMPS SHALL BE INCIDENTAL TO OTHER ITEMS AND NO ADDITIONAL COMPENSATION SHALL BE CONSIDERED.
25. ALL EXISTING MAILBOXES INTERFERING WITH NEW CONSTRUCTION SHALL BE RELOCATED OR REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH POSTAL REQUIREMENTS AND IN ACCORDANCE WITH ESCAMBIA COUNTY TECHNICAL SPECIFICATION, FDOT DESIGN STANDARDS AND UNITED POSTAL REQUIREMENTS. ALL EXISTING BRICK MAILBOXES WITHIN LIMITS OF CONSTRUCTION OR COUNTY RIGHT OF WAY SHALL BE REMOVED AND PLACED ON THE PROPERTY LINE OF THE OWNER. CONTRACTOR SHALL REPLACE EXISTING BRICK MAILBOX WITH APPROVED PLASTIC BREAK AWAY MAILBOX.
26. THE CONTRACTOR SHALL, AT A MINIMUM, MATCH EXISTING SIGNING AND PAVEMENT MARKINGS. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE LATEST FDOT DESIGN STANDARDS. THE CONTRACTOR SHALL CONTACT THE COUNTY TRAFFIC DEPARTMENT PRIOR TO INSTALLATION OF ANY SIGNING AND PAVEMENT MARKINGS.
27. WHERE UNSUITABLE MATERIAL, AS DEFINED BY THE COUNTY SPECIFICATIONS SECTION 02300, 1.3(i), IS ENCOUNTERED IN THE AREAS PROPOSED FOR PAVING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY ENGINEER OR DESIGNEE PRIOR TO ANY EXCAVATION.
28. PIPE LENGTHS SHOWN IN THE PLANS DO NOT INCLUDE THE LENGTH OF PIPE THAT MUST BE INSTALLED WITH THE MITERED END SECTION. THEREFORE, ALL PIPES LENGTHS ASSOCIATED WITH MITERED END SECTIONS SHALL BE PAID FOR IN THE UNIT COST OF THE MITERED END SECTION.
29. IF ARCHAEOLOGICAL MATERIAL/PREHISTORIC ARTIFACTS SUCH AS POTTERY OR CERAMICS, STONE TOOLS OR METAL IMPLEMENTS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH NATIVE AMERICAN CULTURES, OR EARLY COLONIAL OR AMERICAN SETTLEMENT ARE ENCOUNTERED AT ANY TIME, THE PROJECT SHOULD CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE IMMEDIATE VICINITY OF SUCH DISCOVERIES. THE

APPLICANT/RECIPIENT, OR OTHER DESIGNEE, SHOULD CONTACT THE FLORIDA DEPARTMENT OF STATE, DIVISION OF HISTORICAL RESOURCES, THE STATE HISTORIC PRESERVATION OFFICER (SHPO) AND THE DSH/FEMA REGION IV ENVIRONMENTAL OFFICER AND FDEM STATE ENVIRONMENTAL LIAISON OFFICER FOR FURTHER GUIDANCE. PROJECT ACTIVITIES SHOULD NOT RESUME WITHOUT VERBAL AND/OR WRITTEN AUTHORIZATION FROM THE DIVISION OF HISTORICAL RESOURCES.

30. IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK MUST STOP IMMEDIATELY AND THE PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH F.S. 872.05.

UTILITY NOTES:

1. THE LOCATION SHOWN FOR EXISTING UNDERGROUND UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR AGREES TO BE COMPLETELY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT OCCUR BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES.
2. UTILITY OWNERS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION SO THAT THE UTILITY OWNER CAN SPOT VERIFY AND/OR EXPOSE THEIR UTILITIES. KNOWN UTILITIES OWNERS INCLUDE:

SEWER/WATER - EMERALD COAST UTILITY AUTHORITY
MR. MIKE HAMLIN
P.O. BOX 15311
PENSACOLA, FL. 32514 PH: (850) 969-3310

ELECTRIC - GULF POWER
MR. CHAD SWAILS
5120 DOGWOOD DRIVE
MILTON, FL. 32570 PH: (850) 429-2446

NATURAL GAS - ENERGY SERVICES OF PENSACOLA
MR. DARRYL SINGLETON
1625 ATWOOD DRIVE
PENSACOLA, FL. 32514 PH: (850) 474-5310

CABLE - COX CABLE
MR. TROY YOUNG
2421 EXECUTIVE PLAZA
PENSACOLA, FL. 32504 PH: (850) 857-4564

TELEPHONE - AT&T FLORIDA
MR. HAL HINOTE
2221 INDUSTRIAL DRIVE
PANAMA CITY, FL. 32405 PH: (850) 913-3709

SUNSHINE STATE ONE-CALL
7200 LAKE ELLENOR DRIVE, SUITE 200
ORLANDO, FL. 32809 PH: (800) 432-4770

TRAFFIC DEPARTMENT - ESCAMBIA COUNTY PUBLIC WORKS
MRS. JOHNNY COX
3363 WEST PARK PLACE
PENSACOLA, FL. 32505 PH:(850) 595-3404
3. AT&T FLORIDA WILL COMPLETE ALL WORK DURING THE HOURS OF 7:30 AM - 4:30 PM, MONDAY THRU FRIDAY. NO NIGHT OR WEEKEND WORKWORK.
4. ALL CABLE DAMAGE MUST BE REPORTED TO THE ATT FLORIDA REPAIR SERVICE DEPARTMENT AT 611 FROM A LAND LINE OR 877-737-2478 IF USING A CELL PHONE.
5. ALL LOOP DETECTOR INSTALLATION SHALL BE DONE AS PER FDOT INDEX 17781.
6. CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.
7. UTILITIES TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. NECESSARY REPAIRS SHALL BE CONSIDERED INCIDENTAL TO OTHER PAY ITEMS AND SHALL BE TO THE SATISFACTION OF UTILITY OWNERS.

DEMOLITION NOTES:

1. ALL ASPHALT AND CONCRETE SHALL BE SAW CUT AT EDGES TO REMAIN.
2. SAW CUTS SHALL BE MADE IN A NEAT WORKMAN LIKE MANNER.
3. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS, AT NO ADDITIONAL COST TO THE OWNER.

EROSION CONTROL NOTES:

1. EROSION CONTROL MEASURES SHOWN HERE ON ARE TO BE CONSIDERED THE MINIMUM INSTALLATION REQUIREMENTS.
2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONTROL OF SEDIMENTATION AND PREVENTION OF EROSION WITHIN THE LIMITS OF THE PROJECT. CONTRACTOR SHALL PROVIDE ANY MATERIAL ITEM OR WORK EFFORT NECESSARY TO PREVENT EROSION AND TO MAINTAIN SEDIMENT ON-SITE THROUGHOUT THE DURATION OF CONSTRUCTION.
3. SEE GENERAL NOTES FOR ADDITIONAL EROSION CONTROL MEASURES.

LEGEND			
	EXIST. TELEPHONE WIRE PULL BOX		EXIST. IRON ROD & CAP
	EXIST. ELECTRICAL METER		EXIST. PIPE/ROD/BAR
	EXIST. POWER POLE		EXIST. CONCRETE MONUMENT
	EXIST. LIGHT POLE		EXIST. PINE TREE
	EXIST. FLOOD LIGHT		EXIST. OAK TREE
	EXIST. WATER VALVE COVER		EXIST. MISCELLANEOUS TREE
	EXIST. WATER VALVE		EXIST. CONIFEROUS TREE
	EXIST. WATER METER		EXIST. SHRUB
	EXIST. WATER FAUCET		EXIST. METAL FENCE (AS SPECIFIED)
	EXIST. GUY WIRE ANCHOR		EXIST. WOOD FENCE (AS SPECIFIED)
	EXIST. FIRE HYDRANT		APPROX. RIGHT-OF-WAY LINE
	EXIST. MAILBOX		APPROX. PROPERTY LINE
	EXIST. SINGLE SUPPORT SIGN		EXIST. GAS MAIN/SIZE
	EXIST. SEWER MANHOLE		EXIST. OVERHEAD UTILITY
	EXIST. STORM MANHOLE		EXIST. WATER MAIN/SIZE
	EXIST. CLEANOUT		EXIST. FIBER OPTIC CABLE
	BENCHMARK (INFORMATION SPECIFIED)		EXIST. BURIED ELECTRICAL
	EXIST. NAIL		EXIST. TELEPHONE
	EXIST. CONCRETE AREA		EXIST. GRAVEL AREA
	EXIST. ASPHALT AREA		EXIST. SAND/DIRT AREA
	PROPOSED ASPHALT AREA		PROPOSED SILT FENCE
	PROPOSED CONCRETE AREA		PROPOSED VERTICAL BEND
	PROPOSED DEMOLITION AREA		

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www.mottmac.com/americas
Architects Surveyors
EA-C0000035 EB-0000155 LB-0000783

CROCKET ST. & CRESTFIELD CIR. DRAINAGE IMPROVEMENTS
ESCAMBIA COUNTY, FLORIDA



REVISION DESCRIPTION

DATE REV.

DESIGNED BY: S. WHITE
DRAWN BY: G. EDWARDS, C. RILEY
PROJECT ENGINEER: S. WHITE
PROJECT MANAGER: S. WHITE
M.M. PROJECT NUMBER: 333166

100% DESIGN PLANS

STEVEN D. WHITE, P.E.
FLORIDA LICENSE NO. 58809

AFFIX SEAL

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:
C-002

User Name: c0465872
Tue Aug 20 10:34:20 AM -0500 2014
Drawing Path: P:\333166 - crockett street & crestfield circle\Drawings\Civil\road drawings\Sheets\Plan Set
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Plot File Name:

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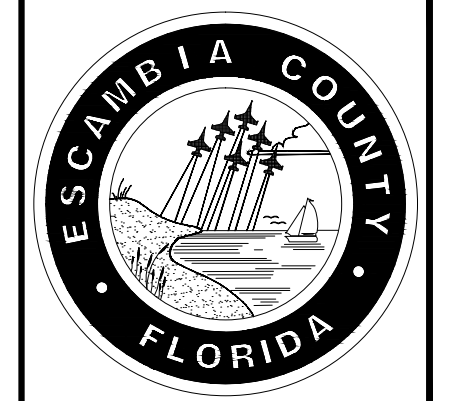
User Name: sda65271
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 Drawing Name: C-003 Summary of Pay Items.dwg
 Plot File Name:

Item	Estimated Quantity	Unit
Mobilization	1	LS
Maintenance of Traffic	1	LS
Clearing and Grubbing	5	AC
Remove and Replace Hogwire Fence	22	LF
Earthwork Excavation by Machine	28236	CY
Earthwork Excavate, Haul, and Install, On-site	3700	CY
18" MES 1:4	2	EA
FDOT Type D Inlet w/traversable slot	2	EA
FDOT Type P8 Manhole	2	EA
FDOT Type G Ditch Bottom Inlet	1	EA
FDOT U Type Endwall Energy Dissipator 30" RCP, Class I Concrete	7	CY
FDOT U Type Endwall Energy Dissipator 42" RCP, Class I Concrete	15	CY
18" RCP	236	LF
24" RCP	286	LF
30" RCP	99	LF
42" RCP	88	LF
Fiber Reinforced Concrete Ditch Paving w/o Weep Holes, Min 3" Thick	907	SY
Tied Concrete Block Mat	190	SY
Install 6' Wood Privacy Fence	125	LF
Silt Fence	3500	LF
Rip Rap	110	SY
Topsoil	16010	SY
Argentine Bahia, Seeding and Mulch (70lb Per Acre)	247	LB
Argentine Bahia Sod, Staked, over 1000sy	11000	SY

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MOTT MACDONALD
 Engineers Surveyors
 Architects EB - 0000155 LB - 000783

CROCKET ST. & CRESTFIELD CIR. DRAINAGE IMPROVEMENTS
 ESCAMBIA COUNTY, FLORIDA



DATE	REV.	REVISION DESCRIPTION
FEBRUARY 2018		DESIGNED BY: S. WHITE
		DRAWN BY: G. EDWARDS
		PROJECT ENGINEER: C. RILEY
		PROJECT MANAGER: S. WHITE
		M.M. PROJECT NUMBER: S. WHITE
		333166

100% DESIGN PLANS

STEVEN D. WHITE, P.E.
 FLORIDA LICENSE NO. 58809

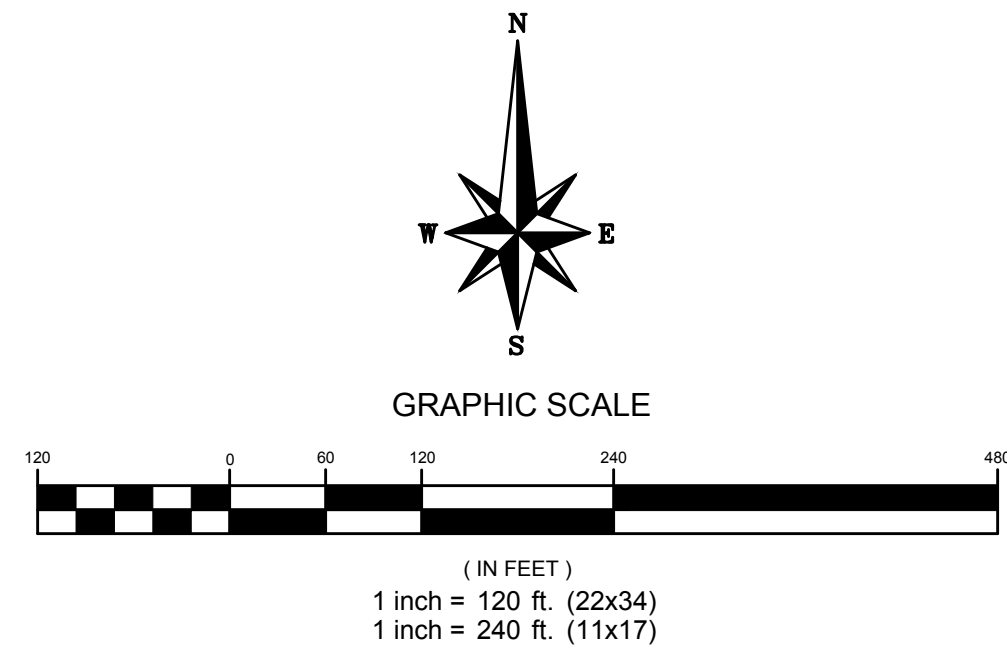
DATE _____ AFFIX SEAL _____

SHEET TITLE:
SUMMARY OF PAY ITEMS

SHEET NUMBER:
C-003

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User Name: mch0577
 Title: Surveyor
 Drawing Path: P:\333166 - Crockett Street & Crestfield Circle Drawings\Civil\CAD Drawings\Sheets\Plan Set
 Drawing Name: C-004 Existing Site Key Plan.dwg
 Plot File Name:



SHEET NUMBER:

C-004

SHEET TITLE:
 EXISTING SITE
 KEY PLAN

100% DESIGN PLANS

STEVEN D. WHITE, P.E.
 FLORIDA LICENSE NO. 58809

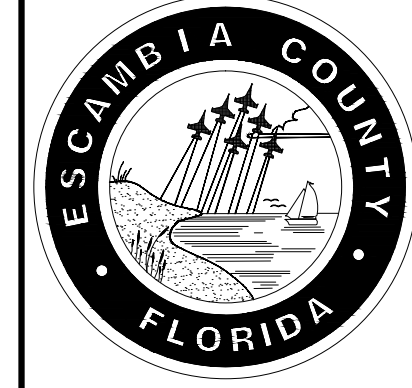
DATE: _____ AFFIX SEAL

DATE: FEBRUARY 2018

DESIGNED BY: S. WHITE
 DRAWN BY: G. EDWARDS
 PROJECT ENGINEER: C. RILEY
 PROJECT MANAGER: S. WHITE
 M.M. PROJECT NUMBER: 333166

DATE

REVISION DESCRIPTION



CROCKET ST. &
 CRESTFIELD CIR.
 DRAINAGE
 IMPROVEMENTS
 ESCAMBIA COUNTY,
 FLORIDA

M
MOTT
MACDONALD

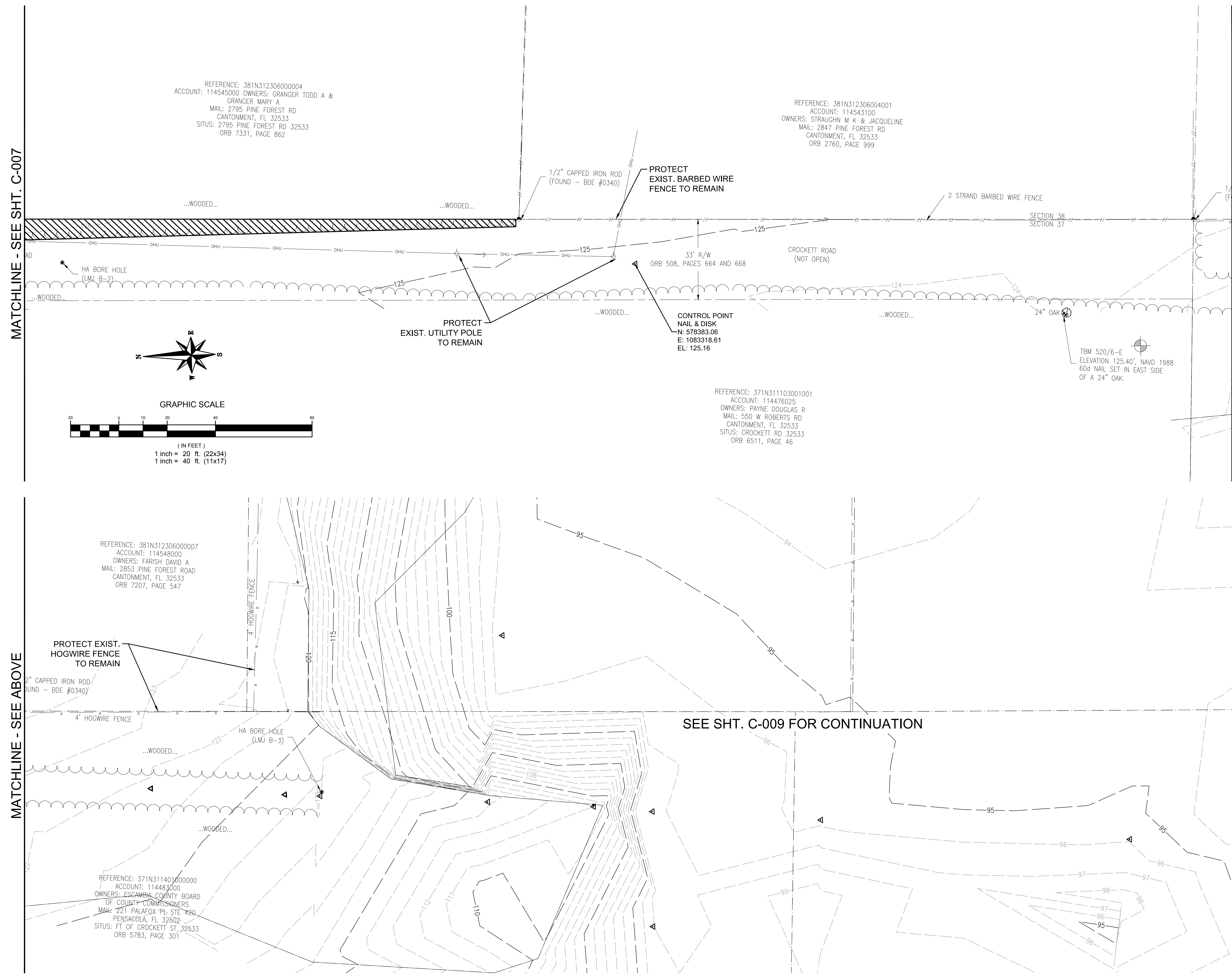
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 www.mottmac.com/americas
 Architects Engineers Surveyors
 AA-C000035 EB-C000155 LB-000783

User Name: mch0697
 Title: Surveyor
 Drawing Path: P:\333166 - Crockett Street & Crestfield Circle Drawings\CAD Drawings\Sheets\Plan Set
 Drawing Name: C-008 Existing Site, Demolition & Erosion Control Plan.dwg
 Plot File Name:

MATCHLINE - SEE SHT. C-007

MATCHLINE - SEE ABOVE

MATCHLINE - SEE BELOW



REFERENCE: 381N31230600004
 ACCOUNT: 114545000
 OWNERS: GRANGER TODD A &
 GRANGER MARY A
 MAIL: 2795 PINE FOREST RD
 CANTONMENT, FL 32533
 SITUS: 2795 PINE FOREST RD 32533
 ORB 7331, PAGE 862

REFERENCE: 381N312306004001
 ACCOUNT: 114543100
 OWNERS: STRAUGHN M K & JACQUELINE
 MAIL: 2847 PINE FOREST RD
 CANTONMENT, FL 32533
 ORB 2760, PAGE 999

REFERENCE: 381N31230600007
 ACCOUNT: 114548000
 OWNERS: FARISH DAVID A
 MAIL: 2853 PINE FOREST ROAD
 CANTONMENT, FL 32533
 ORB 7207, PAGE 547

REFERENCE: 371N311103001001
 ACCOUNT: 114476025
 OWNERS: PAYNE DOUGLAS R
 MAIL: 550 W ROBERTS RD
 CANTONMENT, FL 32533
 SITUS: CROCKETT RD 32533
 ORB 6511, PAGE 46

REFERENCE: 371N311401000000
 ACCOUNT: 114483000
 OWNERS: ESCAMBA COUNTY BOARD
 OF COUNTY COMMISSIONERS
 MAIL: 221 PALAFOX PL, STE #20
 PENSACOLA, FL 32502
 SITUS: FT OF CROCKETT ST, 32533
 ORB 5783, PAGE 301

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CROCKET ST. & CRESTFIELD CIR. DRAINAGE IMPROVEMENTS
 ESCAMBA COUNTY, FLORIDA



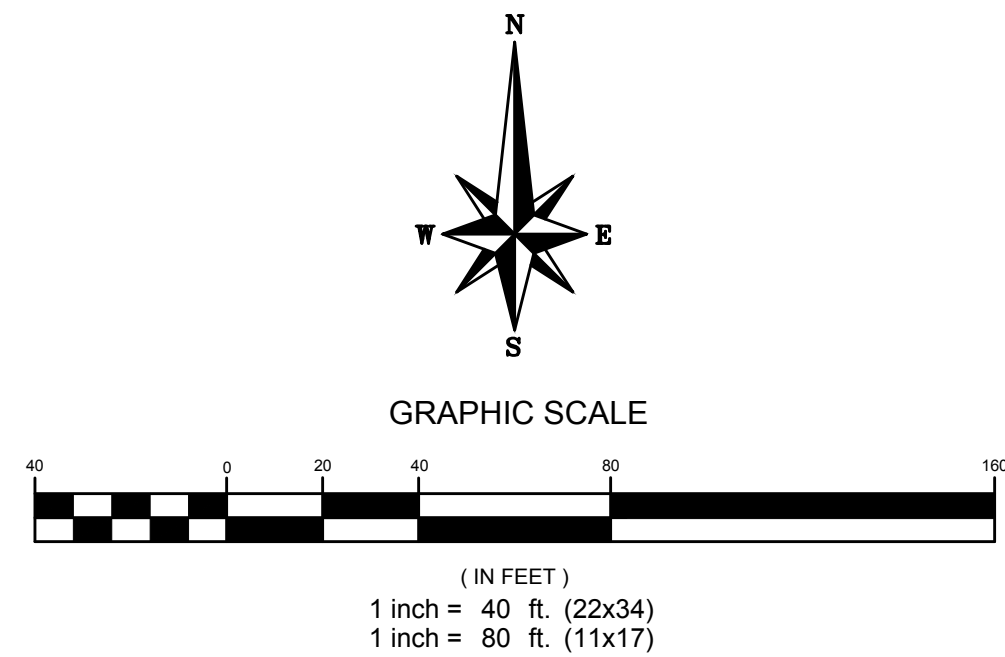
DATE	REV.	REVISION DESCRIPTION
FEBRUARY 2018		
DESIGNED BY:	S. WHITE	
DRAWN BY:	G. EDWARDS C. RILEY	
PROJECT ENGINEER:	S. WHITE	
PROJECT MANAGER:	S. WHITE	
M.M. PROJECT NUMBER:	333166	

100% DESIGN PLANS
 STEVEN D. WHITE, P.E.
 FLORIDA LICENSE NO. 58809
 DATE _____ AFFIX SEAL

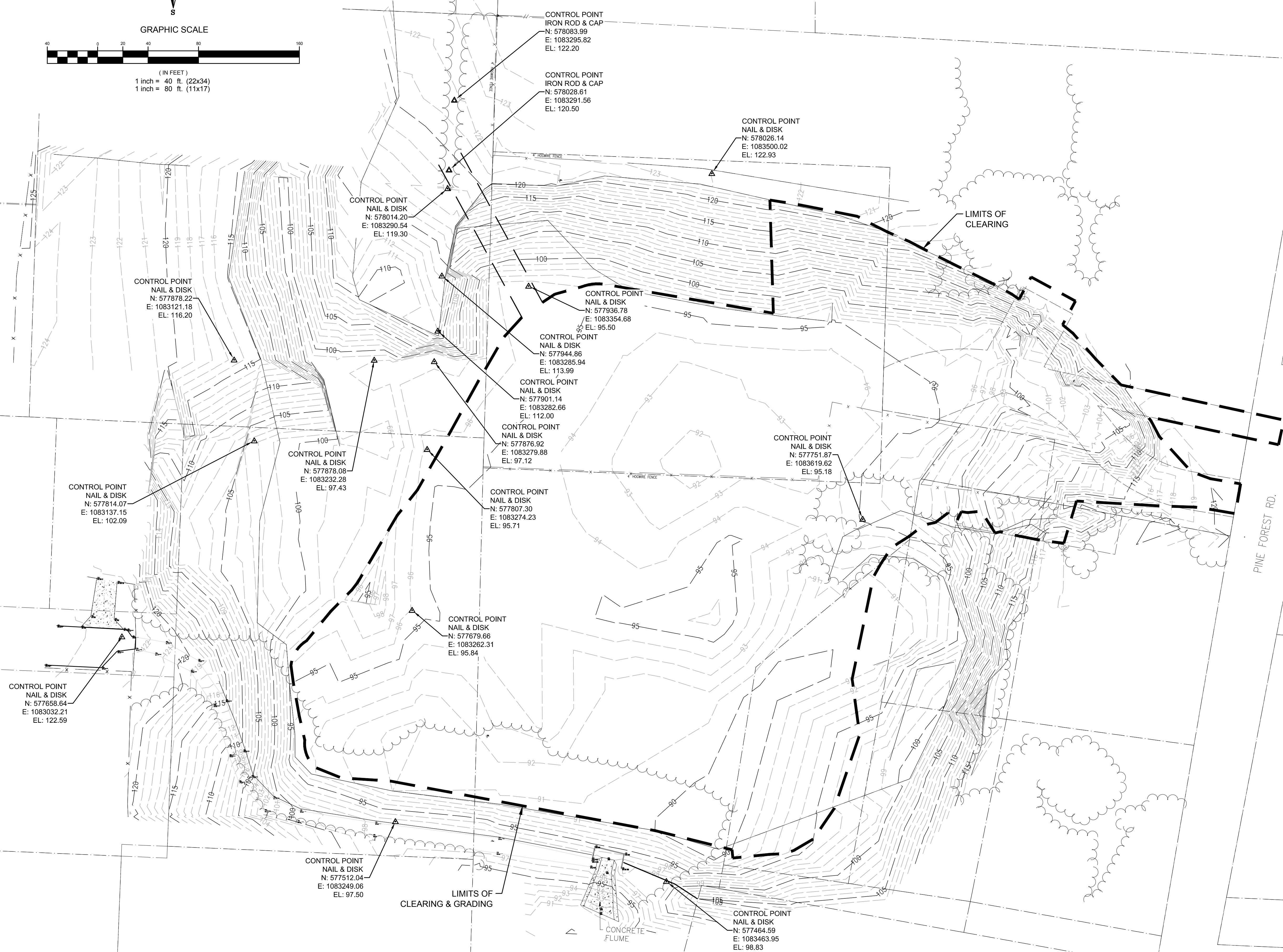
SHEET TITLE:
 EXISTING SITE, DEMOLITION & EROSION CONTROL PLAN

SHEET NUMBER:
 C-008

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SEE SHT. C-008 FOR CONTINUATION



CONTROL POINT
IRON ROD & CAP
N: 578083.99
E: 1083295.82
EL: 122.20

CONTROL POINT
IRON ROD & CAP
N: 578028.61
E: 1083291.56
EL: 120.50

CONTROL POINT
NAIL & DISK
N: 578014.20
E: 1083290.54
EL: 119.30

CONTROL POINT
NAIL & DISK
N: 577878.22
E: 1083121.18
EL: 116.20

CONTROL POINT
NAIL & DISK
N: 577814.07
E: 1083137.15
EL: 102.09

CONTROL POINT
NAIL & DISK
N: 577878.08
E: 1083232.28
EL: 97.43

CONTROL POINT
NAIL & DISK
N: 577901.14
E: 1083282.66
EL: 112.00

CONTROL POINT
NAIL & DISK
N: 577876.92
E: 1083279.88
EL: 97.12

CONTROL POINT
NAIL & DISK
N: 577807.30
E: 1083274.23
EL: 95.71

CONTROL POINT
NAIL & DISK
N: 577879.66
E: 1083262.31
EL: 95.84

CONTROL POINT
NAIL & DISK
N: 577512.04
E: 1083249.06
EL: 97.50

CONTROL POINT
NAIL & DISK
N: 577658.64
E: 1083032.21
EL: 122.59

CONTROL POINT
NAIL & DISK
N: 577936.78
E: 1083354.68
EL: 95.50

CONTROL POINT
NAIL & DISK
N: 577944.86
E: 1083285.94
EL: 113.99

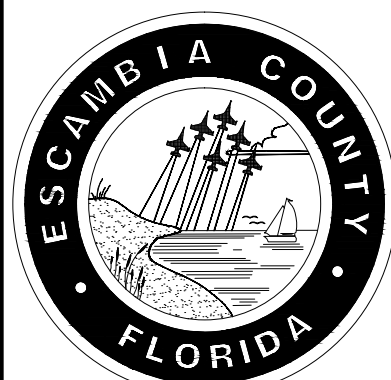
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CONTROL POINT
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CONTROL POINT
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N: 577751.87
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EL: 95.18

CONTROL POINT
NAIL & DISK
N: 578026.14
E: 1083500.02
EL: 122.93

CONTROL POINT
NAIL & DISK
N: 578014.20
E: 1083290.54
EL: 119.30



CROCKET ST. & CRESTFIELD CIR. DRAINAGE IMPROVEMENTS
ESCAMBIA COUNTY, FLORIDA

MOTT MACDONALD
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AA-C000035 EB-0000155 LB-0000783

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DATE	DESIGNED BY	DATE	REV.	REVISION DESCRIPTION
FEBRUARY 2018	S. WHITE			
	G. EDWARDS			
	C. RILEY			
	S. WHITE			
	S. WHITE			
	S. WHITE			
	M.M. PROJECT NUMBER:			333166

100% DESIGN PLANS
STEVEN D. WHITE, P.E.
FLORIDA LICENSE NO. 58809

DATE _____ AFFIX SEAL

SHEET TITLE:
EXISTING SITE DEMOLITION & EROSION CONTROL PLAN

SHEET NUMBER:
C-009

User Name: sdc0597
Tool State: Feb 12 2018 4:26:07PM
Drawing Path: P:\333166 - Crocket Street & Crestfield Circle Drawings\CAD Drawings\Sheets\Plan Set
Drawing Name: C-009 Existing Site Demolition & Erosion Control Plan.dwg
Plot File Name:

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User Name: pch6577
 Title: 2/18 - 126.18PW
 Drawing Path: P:\333166 - Crockett Street & Crestfield Circle\CAD Drawings\Civil\Drawings\Sheets\Plan Set
 Drawing Name: C-010 Summary of Drainage Structures.dwg
 Plot File Name:

STRUCTURE TABLE						
QTY.	STR-#	STATION	OFFSET	SIDE	DESCRIPTION	CONNECTED PIPES
1	MES-1	10+67.35	-23.48'	L	18" MES (1:4)	(P-5) INV (IN) EL= 129.91'
1	MES-4	10+19.70	-98.95'	L	38" MES (1:4)	(P-7) INV (OUT) EL= 130.46'
1	MES-5	12+74.09	-25.11'	L	38" MES (1:4)	(P-8) INV (IN) EL= 131.02'
1	MES-6	13+07.66	-25.36'	L	38" MES (1:4)	(P-8) INV (OUT) EL= 131.15'
1	MES-7	13+75.79	-25.72'	L	38" MES (1:4)	(P-9) INV (IN) EL= 131.49'
1	MES-8	14+08.19	-26.11'	L	38" MES (1:4)	(P-9) INV (OUT) EL= 131.60'
1	MES-9	10+19.85	-439.67'	L	19"x30" Mes (1:4)	(P-10) INV (IN) EL= 132.15'
1	MES-10	10+96.31	0.00'		18" MES (4:1)	(P-21) INV (OUT) EL= 91.00'
1	MES-11	10+39.91	0.02'	R	18" MES (4:1)	(P-21) INV (IN) EL= 90.50'
1	MES-12	10+75.85	20.67'	R	24" MES (1:4)	(P-22) INV (OUT) EL= 130.86'
1	MES-13	11+07.08	20.85'	R	24" MES (1:4)	(P-22) INV (IN) EL= 131.23'
1	S-1	13+38.23	0.00'		FDOT Type 'D' Inlet w/ Skimmer	(P-1) INV (OUT) EL= 113.12'
1	S-2	13+22.08	0.00'		FDOT Type J-7 Manhole (7.0' Ø)	(P-2) INV (OUT) EL= 113.09' (P-1) INV (IN) EL= 113.09'
1	S-3	12+05.68	0.00'		FDOT Type J-7 Manhole (7.0' Ø)	(P-3) INV (OUT) EL= 111.20' (P-2) INV (IN) EL= 111.20'
1	S-4	10+43.93	0.00'		FDOT Type J-7 Manhole (7.0' Ø)	(P-4) INV (OUT) EL= 111.04' (P-3) INV (IN) EL= 111.04'
1	S-5	10+00.00	0.00'		FDOT 24"x38" Straight Concrete Endwall	(P-4) INV (IN) EL= 111.00'
1	S-6	10+92.40	-23.52'	L	FDOT Type J-7 Manhole (7.0' Ø)	(P-5) INV (OUT) EL= 130.04' (P-11) INV (OUT) EL= 124.29' (P-6) INV (IN) EL= 126.17'
1	S-7	10+77.96	0.00'		FDOT Type P-8 Manhole (4.0' Ø)	(P-12) INV (OUT) EL= 124.10' (P-11) INV (IN) EL= 124.10'
1	S-8	14+72.96	-0.03'	L	FDOT Type P-8 Manhole (4.0' Ø)	(P-13) INV (OUT) EL= 122.00' (P-12) INV (IN) EL= 122.00'
1	S-9	18+72.96	-0.06'	L	FDOT Type P-8 Manhole (4.0' Ø)	(P-14) INV (OUT) EL= 119.50' (P-13) INV (IN) EL= 119.50'
1	S-10	22+72.96	0.00'		FDOT Type P-8 Manhole (4.0' Ø)	(P-15) INV (OUT) EL= 118.00' (P-14) INV (IN) EL= 118.00'
1	S-11	24+99.34	0.00'		FDOT Type P-8 Manhole (4.0' Ø)	(P-16) INV (OUT) EL= 110.00' (P-15) INV (IN) EL= 110.00'
1	S-12	25+74.86	0.00'		FDOT Type P-8 Manhole (4.0' Ø)	(P-17) INV (OUT) EL= 93.00' (P-16) INV (IN) EL= 96.00'
1	S-13	26+57.72	0.00'		30" FDOT U-Type Endwall w/ Energy Dissipator	(P-17) INV (IN) EL= 87.00'
1	S-14	10+14.35	0.00'		FDOT TYPE D INLET W/ TRAVERSABLE SLOT	(P-18) INV (OUT) EL= 109.59'
1	S-15	12+22.00	0.00'		FDOT Type G Inlet	(P-19) INV (OUT) EL= 87.18' (P-18) INV (IN) EL= 88.69' (P-20) INV (IN) EL= 89.19'
1	S-16	13+10.78	0.00'		42" FDOT U-Type Endwall w/ Energy Dissipator	
1	S-17	20+18.42	0.08'	R	FDOT Type D Inlet w/ Traversable Slot	(P-20) INV (OUT) EL= 100.00'
1	S-22	11+31.53	-24.06'	L	Ditch Bottom Inlet - Type G	(P-6) INV (OUT) EL= 126.67' (P-7) INV (IN) EL= 126.67'
1	XS-01	16+02.85	-28.11'	L	Connection To Exist. Ditch Bottom Inlet	(P-10) INV (OUT) EL= 132.54' (XP-01) INV (IN) EL= 132.57'

PIPE TABLE				
PIPE-#	DESCRIPTION	LENGTH	SLOPE	CONNECTED STRUCTURES
P-1	30" RCP	16 LF	0.19%	(S-1) INV (IN) EL= 113.12' (S-2) INV (OUT) EL= 113.09'
P-2	24" x 38" ERCP	116 LF	1.62%	(S-2) INV (IN) EL= 113.09' (S-3) INV (OUT) EL= 111.20'
P-3	24" x 38" ERCP	162 LF	0.10%	(S-3) INV (IN) EL= 111.20' (S-4) INV (OUT) EL= 111.00'
P-4	24" x 38" ERCP	44 LF	0.10%	(S-4) INV (IN) EL= 111.04' (S-5) INV (OUT) EL= 111.00'
P-5	18" RCP	25 LF	0.50%	(S-6) INV (IN) EL= 130.04' (MES-1) INV (OUT) EL= 129.91'
P-6	24" x 38" ERCP	36 LF	1.39%	(S-22) INV (IN) EL= 126.67' (S-6) INV (OUT) EL= 126.17'
P-7	24" x 38" ERCP	57 LF	6.68%	(MES-4) INV (IN) EL= 130.46' (S-22) INV (OUT) EL= 126.67'
P-8	24" x 38" ERCP	34 LF	0.39%	(MES-6) INV (IN) EL= 131.15' (MES-5) INV (OUT) EL= 131.02'
P-9	24" x 38" ERCP	32 LF	0.34%	(MES-8) INV (IN) EL= 131.60' (MES-7) INV (OUT) EL= 131.49'
P-10	19" x 30" ERCP	71 LF	0.55%	(XS-01) INV (IN) EL= 132.54' (MES-9) INV (OUT) EL= 132.15'
P-11	24" RCP	58 LF	0.33%	(S-6) INV (IN) EL= 124.29' (S-7) INV (OUT) EL= 124.10'
P-12	24" RCP	395 LF	0.53%	(S-7) INV (IN) EL= 124.10' (S-8) INV (OUT) EL= 122.00'
P-13	24" RCP	400 LF	0.62%	(S-8) INV (IN) EL= 122.00' (S-9) INV (OUT) EL= 119.50'
P-14	24" RCP	400 LF	0.37%	(S-9) INV (IN) EL= 119.50' (S-10) INV (OUT) EL= 118.00'
P-15	24" RCP	226 LF	3.53%	(S-10) INV (IN) EL= 118.00' (S-11) INV (OUT) EL= 110.00'
P-16	24" RCP	76 LF	18.54%	(S-11) INV (IN) EL= 110.00' (S-12) INV (OUT) EL= 96.00'
P-17	30" RCP	83 LF	7.24%	(S-12) INV (IN) EL= 93.00' (S-13) INV (OUT) EL= 87.00'
P-18	24" RCP	208 LF	10.06%	(S-14) INV (IN) EL= 109.59' (S-15) INV (OUT) EL= 88.69'
P-19	42" RCP	88 LF	0.20%	(S-15) INV (IN) EL= 87.18' () INV (OUT) EL= 87.00'
P-20	18" RCP	62 LF	17.55%	(S-17) INV (IN) EL= 100.00' (S-15) INV (OUT) EL= 89.19'
P-21	18" RCP	56 LF	0.89%	(MES-10) INV (IN) EL= 91.00' (MES-11) INV (OUT) EL= 90.50'
P-22	14" x 23" RCP	31 LF	-1.18%	(MES-12) INV (IN) EL= 130.86' (MES-13) INV (OUT) EL= 131.23'
XP-01	Exist. 18" RCP	44 LF	0.20%	() INV (IN) EL= 132.66' (XS-01) INV (OUT) EL= 132.57'

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MOTT MACDONALD
 CROCKETT ST. & CRESTFIELD CIR.
 DRAINAGE IMPROVEMENTS
 ESCAMBIA COUNTY, FLORIDA



DATE	REV.	REVISION DESCRIPTION

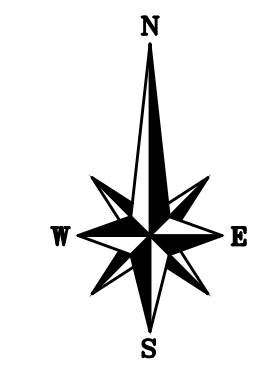
DESIGNED BY: S. WHITE
 DRAWN BY: G. EDWARDS
 PROJECT ENGINEER: C. RILEY
 PROJECT MANAGER: S. WHITE
 M.M. PROJECT NUMBER: S. WHITE 333166

100% DESIGN PLANS
 STEVEN D. WHITE, P.E.
 FLORIDA LICENSE NO. 58809
 DATE
 AFFIX SEAL

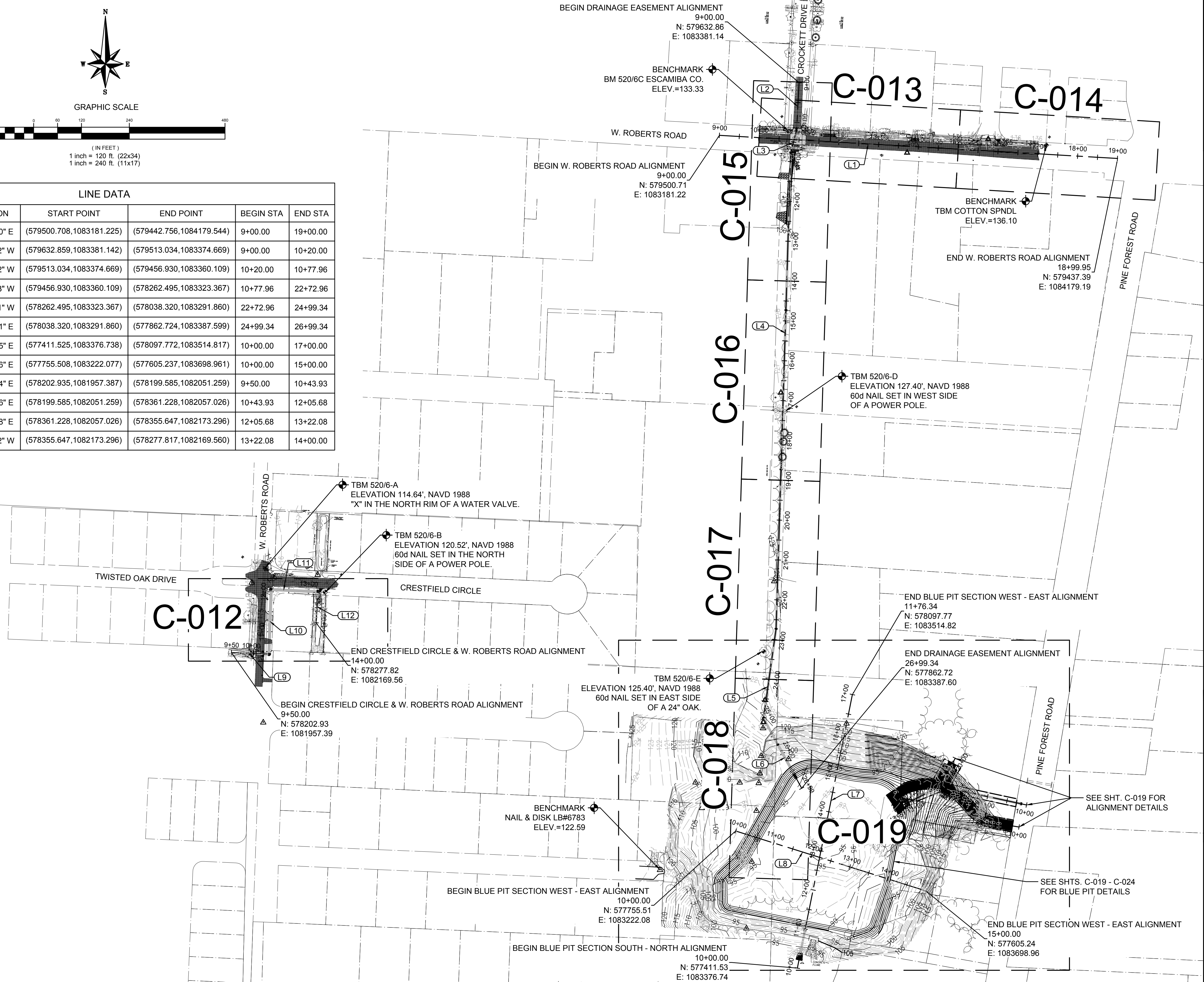
SHEET TITLE:
SUMMARY OF DRAINAGE STRUCTURES

SHEET NUMBER:
C-010

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LINE DATA						
LINE #	LENGTH	DIRECTION	START POINT	END POINT	BEGIN STA	END STA
L1	1000.00	S 86° 40' 40" E	(579500.708,1083181.225)	(579442.756,1084179.544)	9+00.00	19+00.00
L2	120.00	S 03° 05' 32" W	(579632.859,1083381.142)	(579513.034,1083374.669)	9+00.00	10+20.00
L3	57.96	S 14° 32' 52" W	(579513.034,1083374.669)	(579456.930,1083360.109)	10+20.00	10+77.96
L4	1195.00	S 01° 45' 43" W	(579456.930,1083360.109)	(578262.495,1083323.367)	10+77.96	22+72.96
L5	226.38	S 08° 00' 01" W	(578262.495,1083323.367)	(578038.320,1083291.860)	22+72.96	24+99.34
L6	200.00	S 28° 36' 01" E	(578038.320,1083291.860)	(577862.724,1083387.599)	24+99.34	26+99.34
L7	700.00	N 11° 22' 35" E	(577411.525,1083376.738)	(578097.772,1083514.817)	10+00.00	17+00.00
L8	500.00	S 72° 30' 36" E	(577755.508,1083222.077)	(577605.237,1083698.961)	10+00.00	15+00.00
L9	93.93	S 87° 57' 24" E	(578202.935,1081957.387)	(578199.585,1082051.259)	9+50.00	10+43.93
L10	161.74	N 02° 02' 36" E	(578199.585,1082051.259)	(578361.228,1082057.026)	10+43.93	12+05.68
L11	116.40	S 87° 15' 08" E	(578361.228,1082057.026)	(578355.647,1082173.296)	12+05.68	13+22.08
L12	77.92	S 02° 44' 52" W	(578355.647,1082173.296)	(578277.817,1082169.560)	13+22.08	14+00.00



Users Name: mch56578
 Title: S. White
 Drawing Path: P:\333166 - Crockett Street & Crestfield Circle Drawings\Civil\CAD Drawings\Sheets\Plan Set
 Drawing Name: C-011 Project Control & Proposed Key Plan.dwg
 Plot File Name:

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CROCKETT ST. &
 CRESTFIELD CIR.
 DRAINAGE
 IMPROVEMENTS
 ESCAMIBA COUNTY,
 FLORIDA



DATE	DESIGNED BY	DATE	REV.	REVISION DESCRIPTION
FEBRUARY 2018	S. WHITE			
	G. EDWARDS			
	C. RILEY			
	S. WHITE			
	S. WHITE			
	S. WHITE			

100% DESIGN PLANS
 STEVEN D. WHITE, P.E.
 FLORIDA LICENSE NO. 58809
 DATE _____ AFFIX SEAL

SHEET TITLE:
**PROJECT
 CONTROL &
 PROPOSED KEY
 PLAN**

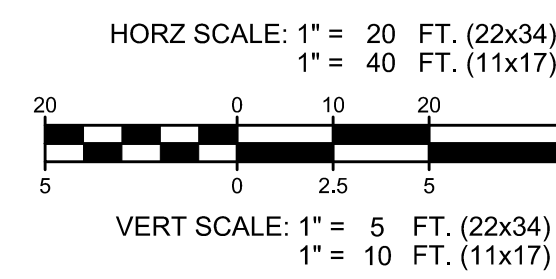
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MATCHLINE STA: 24+00 - SHT. C-017

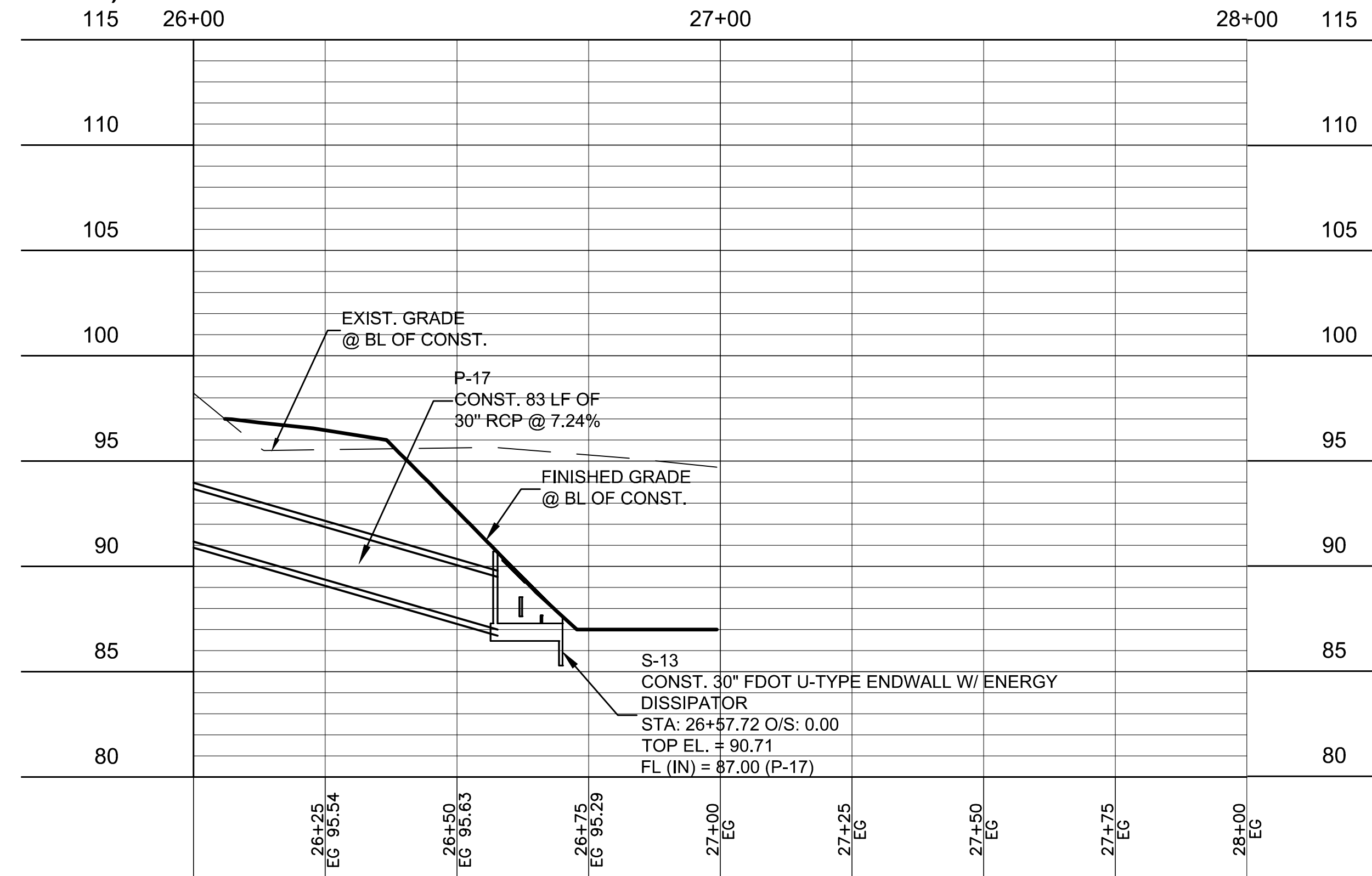
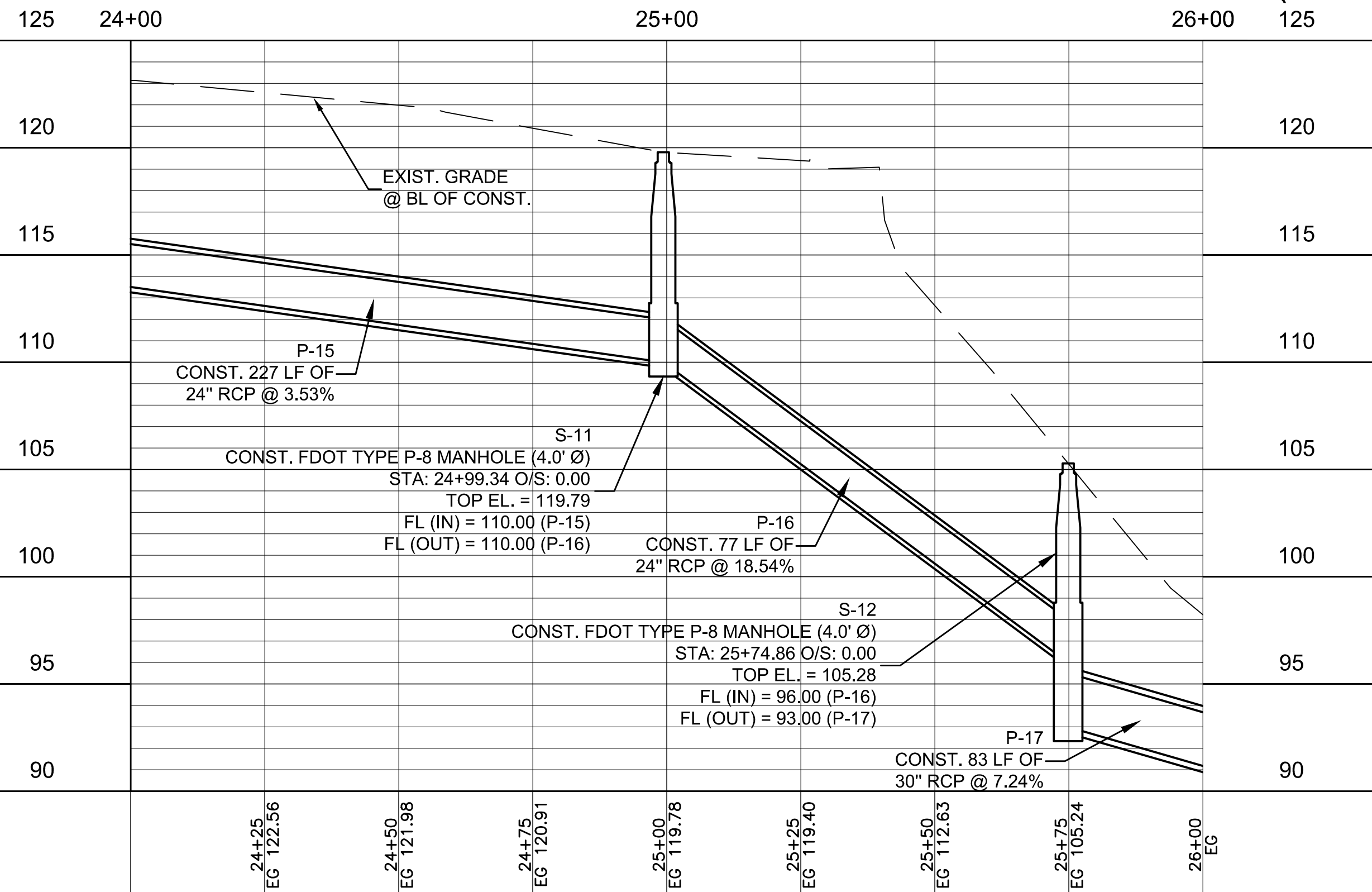
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 ACCOUNT: 114548000
 OWNERS: FARISH DAVID A
 MAIL: 2853 PINE FOREST ROAD
 CANTONMENT, FL 32533
 ORB 7207, PAGE 547

REFERENCE: 371N31140100000
 ACCOUNT: 114483000
 OWNERS: ESCAMBA COUNTY BOARD
 OF COUNTY COMMISSIONERS
 MAIL: 221 PALAFOX PL. STE #20
 PENSACOLA, FL 32502
 SITUS: FT OF CROCKETT ST_32533
 ORB 5783, PAGE 301



DRAINAGE EASEMENT

(PUBLIC R/W VARIES)



CROCKETT ST. &
 CRESTFIELD CIR.
 DRAINAGE
 IMPROVEMENTS
 ESCAMBA COUNTY,
 FLORIDA

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 Mott MacDonald

DATE	REV.	REVISION DESCRIPTION

DESIGNED BY:	S. WHITE
DRAWN BY:	G. EDWARDS
PROJECT ENGINEER:	C. RILEY
PROJECT MANAGER:	S. WHITE
M.M. PROJECT NUMBER:	S. WHITE
	333166

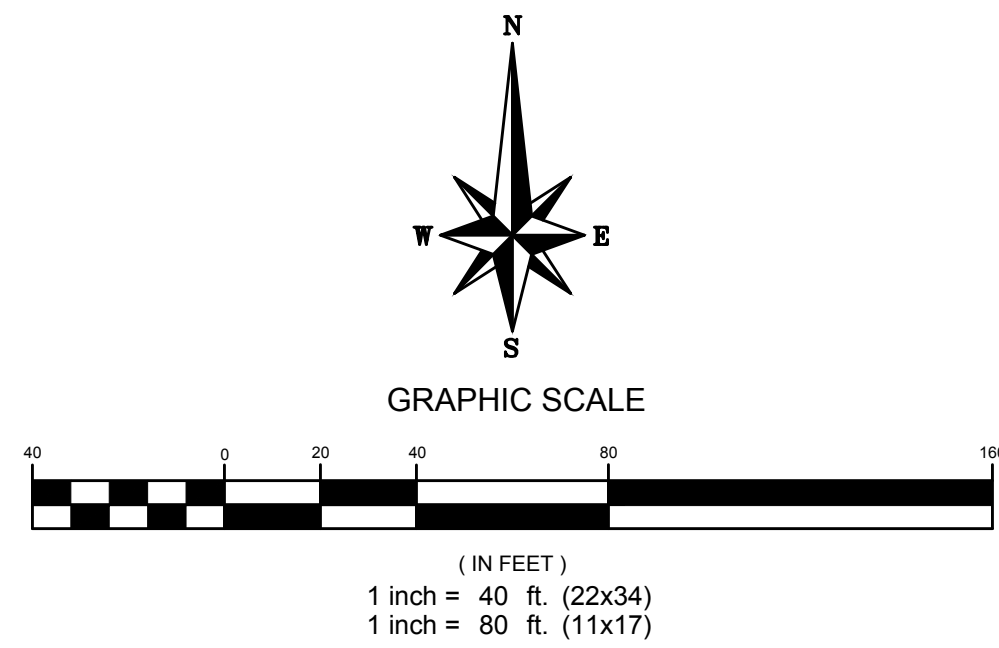
100% DESIGN PLANS
 STEVEN D. WHITE, P.E.
 FLORIDA LICENSE NO. 58809
 DATE _____ AFFIX SEAL

SHEET TITLE:
**PLAN & PROFILE
 DRAINAGE
 EASEMENT**
 STA:
 26+00 to 31+00

SHEET NUMBER:
C-018

User Name: swh06577
 File Path: P:\333166 - Crockett Street & Crestfield Cir\Drawings\Civil\Drawings\Sheets\Plan Set
 Drawing Name: C-018 Plan & Profile Drainage Easement.dwg
 Plot File Name:

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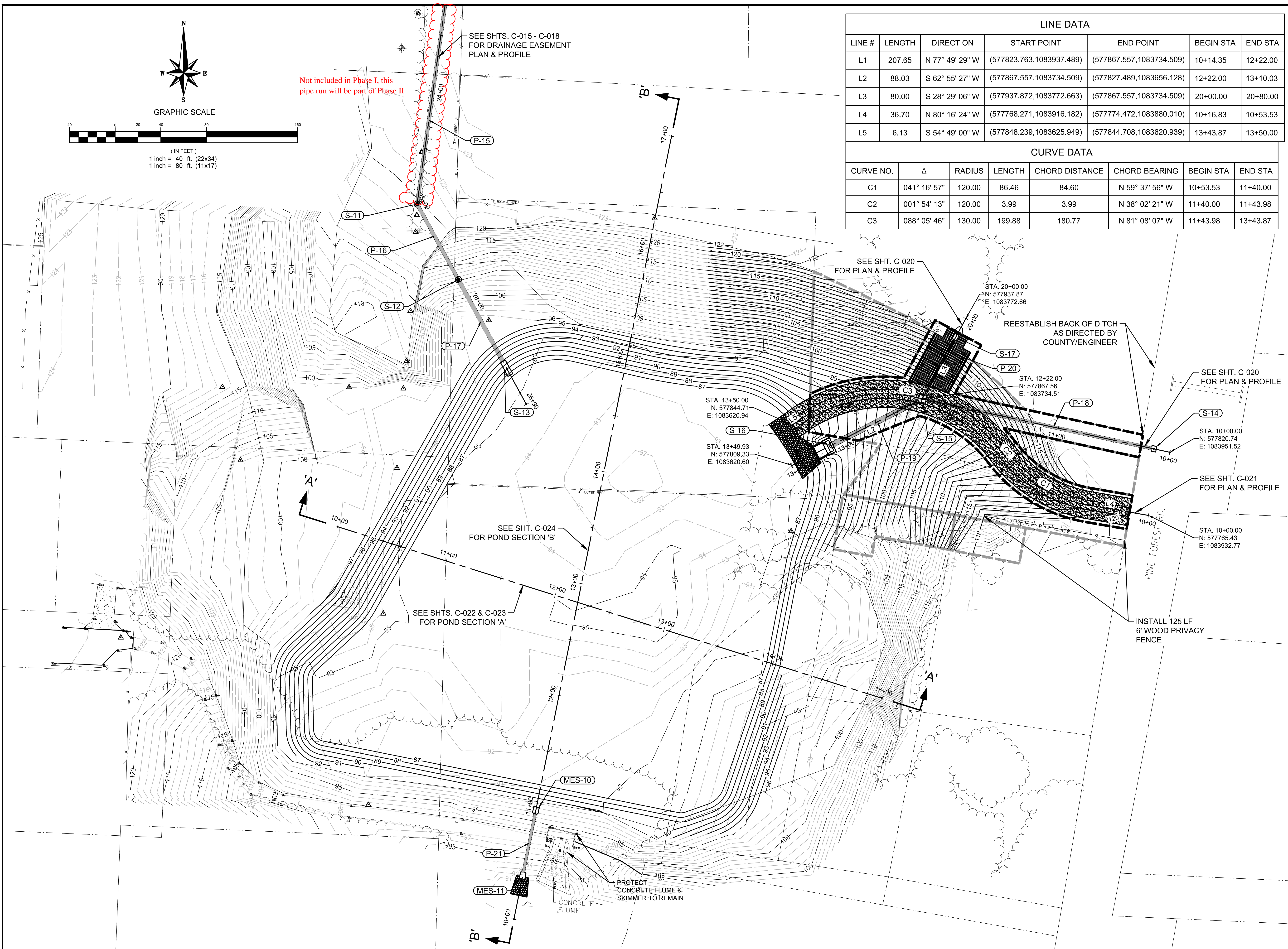


Not included in Phase I, this pipe run will be part of Phase II

SEE SHTS. C-015 - C-018 FOR DRAINAGE EASEMENT PLAN & PROFILE

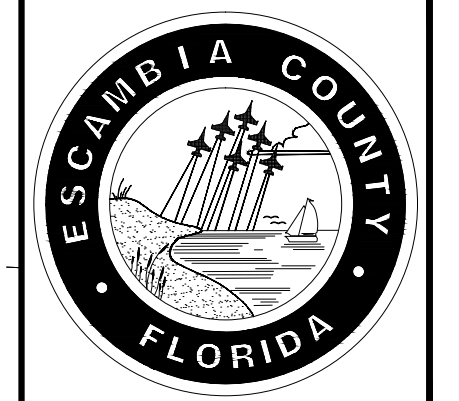
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L2	88.03	S 62° 55' 27" W	(577867.557,1083734.509)	(577827.489,1083656.128)	12+22.00	13+10.03	
L3	80.00	S 28° 29' 06" W	(577937.872,1083772.663)	(577867.557,1083734.509)	20+00.00	20+80.00	
L4	36.70	N 80° 16' 24" W	(577768.271,1083916.182)	(577774.472,1083880.010)	10+16.83	10+53.53	
L5	6.13	S 54° 49' 00" W	(577848.239,1083625.949)	(577844.708,1083620.939)	13+43.87	13+50.00	

CURVE DATA							
CURVE NO.	Δ	RADIUS	LENGTH	CHORD DISTANCE	CHORD BEARING	BEGIN STA	END STA
C1	041° 16' 57"	120.00	86.46	84.60	N 59° 37' 56" W	10+53.53	11+40.00
C2	001° 54' 13"	120.00	3.99	3.99	N 38° 02' 21" W	11+40.00	11+43.98
C3	088° 05' 46"	130.00	199.88	180.77	N 81° 08' 07" W	11+43.98	13+43.87



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AA-C000035 EB-0000155 LB-0000783

MOTT MACDONALD
CROCKET ST. & CRESTFIELD CIR.
DRAINAGE IMPROVEMENTS
ESCAMBIA COUNTY, FLORIDA



DATE	DESIGNED BY	DATE	REV.	REVISION DESCRIPTION
FEBRUARY 2018	S. WHITE			
	G. EDWARDS			
	C. RILEY			
	S. WHITE			
	S. WHITE			
	S. WHITE			
	M.M. PROJECT NUMBER: 333166			

100% DESIGN PLANS
STEVEN D. WHITE, P.E.
FLORIDA LICENSE NO. 58809
DATE _____ AFFIX SEAL

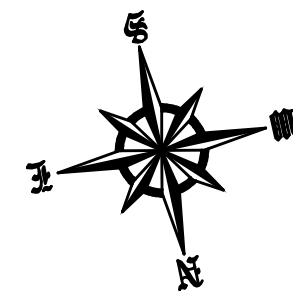
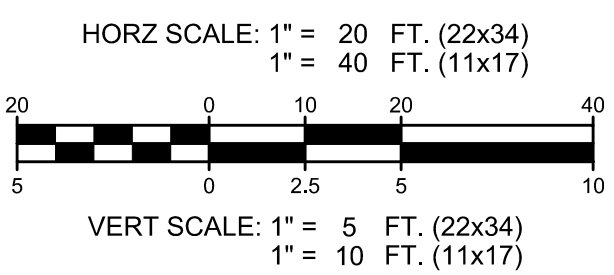
SHEET TITLE:
BLUE PIT EXPANSION PLAN

SHEET NUMBER:
C-019

User Name: swh06579
Plot Date: FEB 12 2018 1:27:58PM
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Plot File Name:

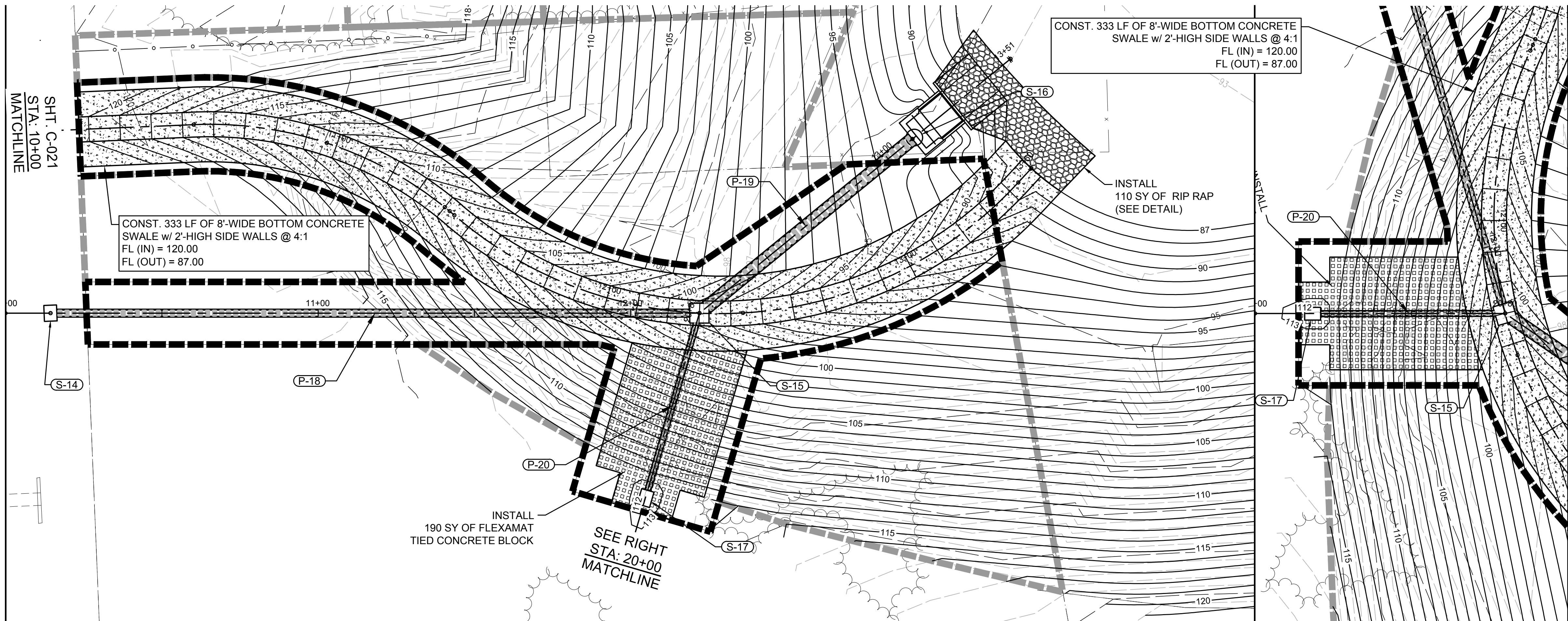
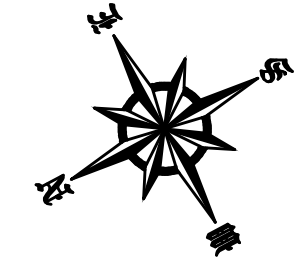
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User Name: mactm2018_128-24PM
 Title Sheet: Plan
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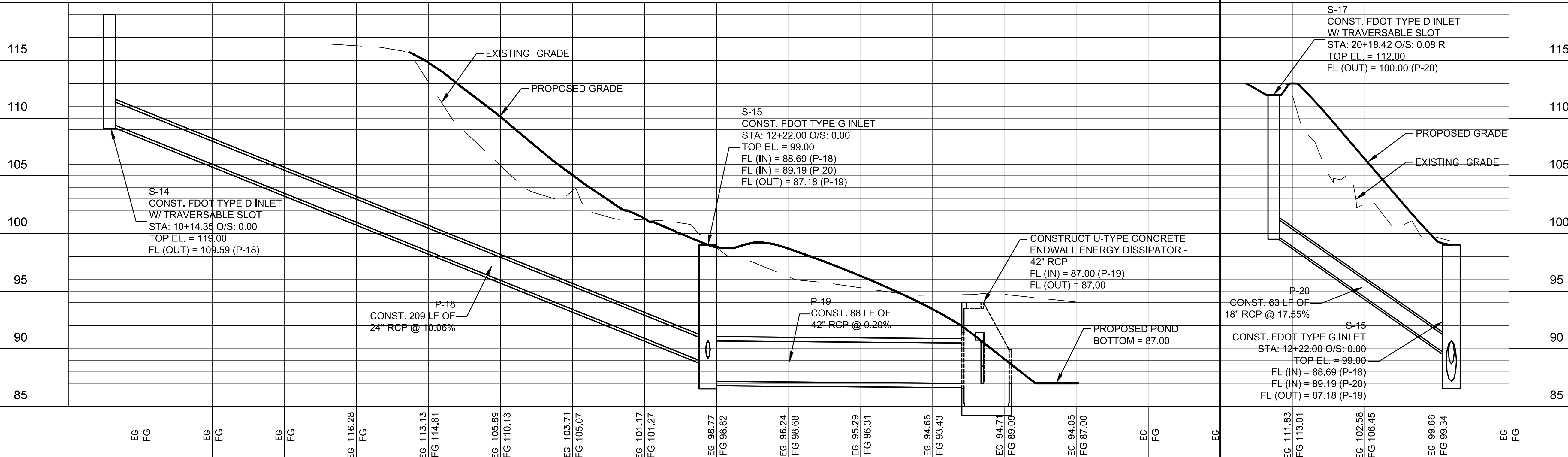


BLUE PIT DRAINAGE EASEMENT

(FROM PINE FOREST ROAD)



120 10+00 11+00 12+00 13+00 14+00 21+00 120



DATE	REV.	REVISION DESCRIPTION
FEBRUARY 2018		

DESIGNED BY:	S. WHITE
DRAWN BY:	G. EDWARDS C. RILEY
PROJECT ENGINEER:	S. WHITE
PROJECT MANAGER:	S. WHITE
M.M. PROJECT NUMBER:	333166

100% DESIGN PLANS	
DATE:	FEBRUARY 2018
DESIGNED BY:	S. WHITE
DRAWN BY:	G. EDWARDS C. RILEY
PROJECT ENGINEER:	S. WHITE
PROJECT MANAGER:	S. WHITE
M.M. PROJECT NUMBER:	333166

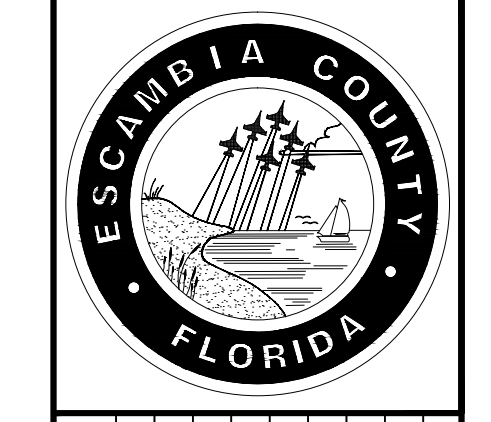
SHEET TITLE:
**PLAN & PROFILE
 BLUE PIT**
 STA:
 10+00 to 14+00 &
 20+00 to 21+00

SHEET NUMBER:
C-020

MOTT MACDONALD
 Architects Engineers Surveyors
 AA-0000035 EB-0000155 LB-0000783

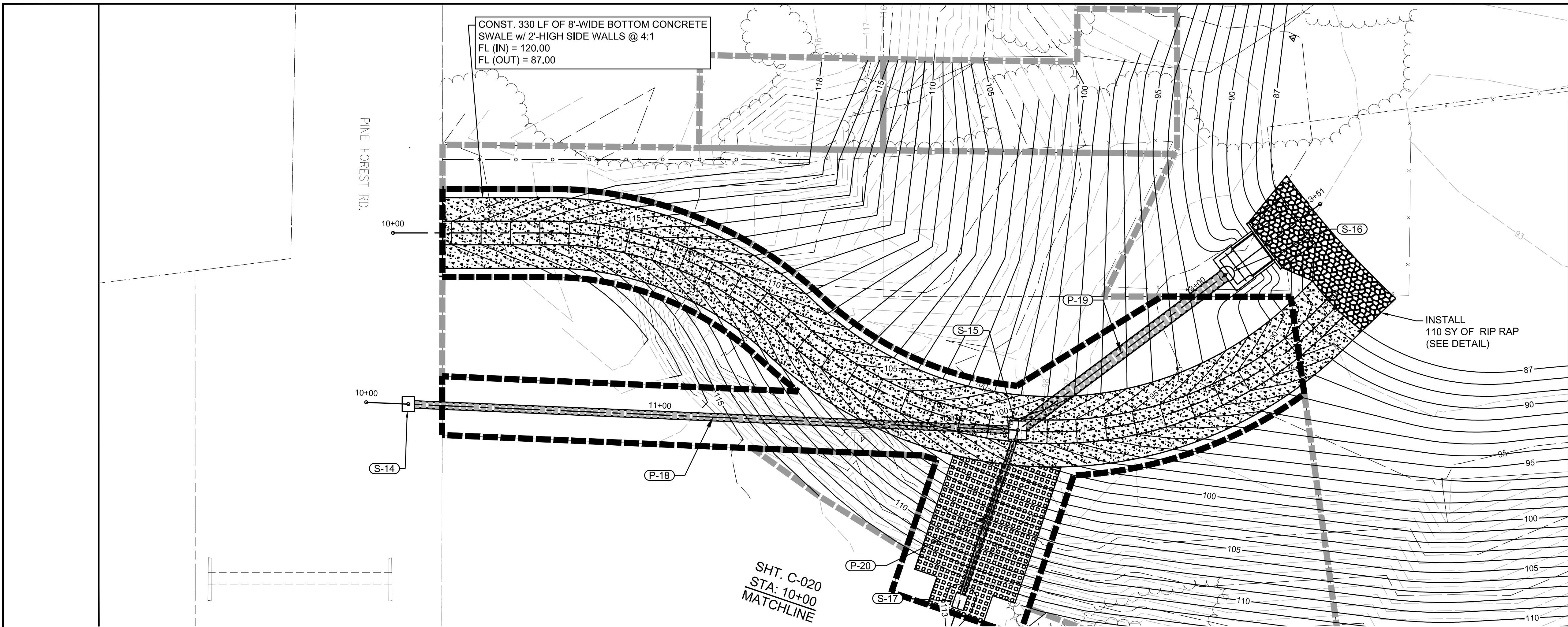
Mott MacDonald
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 Pensacola, FL 32502
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 www.mottmac.com/americas

**CROCKET ST. &
 CRESTFIELD CIR.
 DRAINAGE
 IMPROVEMENTS**
 ESCAMBIA COUNTY,
 FLORIDA



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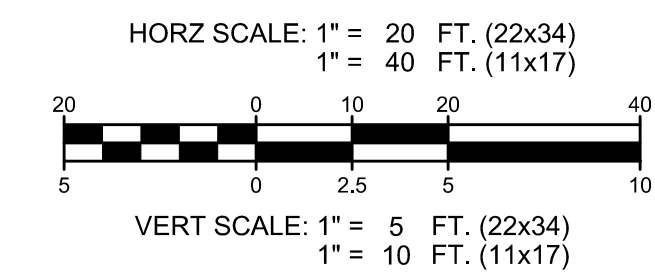
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 Drawing Name: C-021 Plan & Profile Blue Pit.dwg
 Plot File Name:



CONST. 330 LF OF 8'-WIDE BOTTOM CONCRETE
 SWALE w/ 2'-HIGH SIDE WALLS @ 4:1
 FL (IN) = 120.00
 FL (OUT) = 87.00

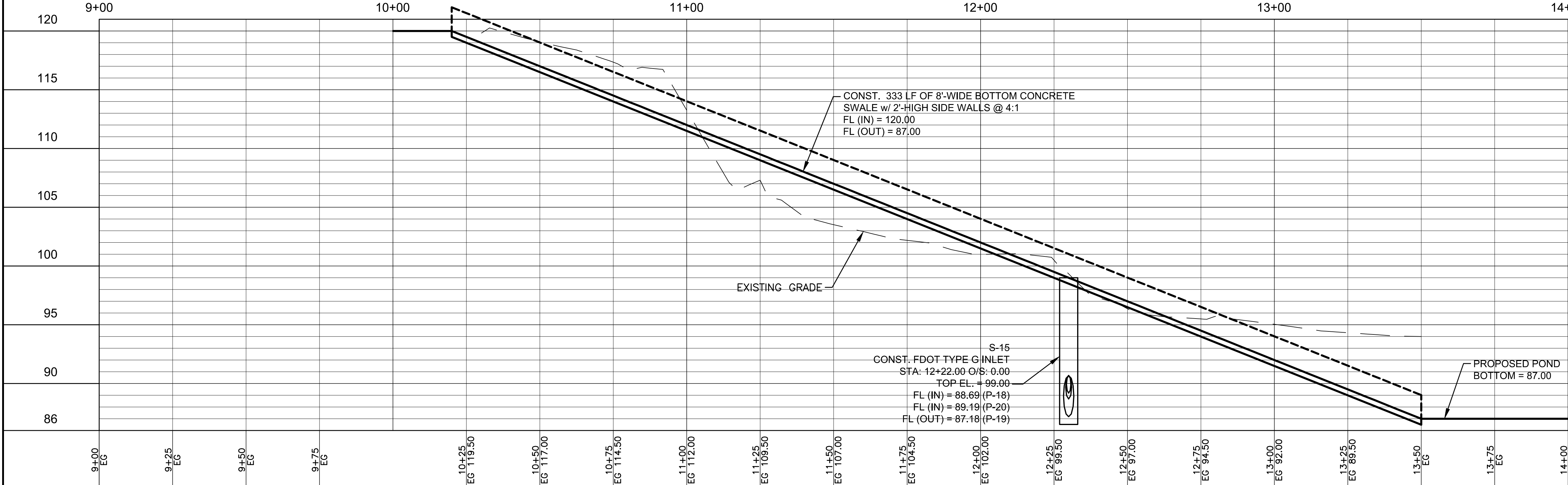
INSTALL
 110 SY OF RIP RAP
 (SEE DETAIL)

SHT. C-020
 STA: 10+00
 MATCHLINE



BLUE PIT SWALE FROM PINE FOREST ROAD

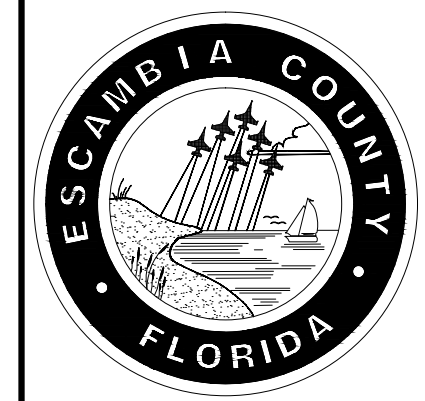
(DRAINAGE EASEMENT)



CONST. 333 LF OF 8'-WIDE BOTTOM CONCRETE
 SWALE w/ 2'-HIGH SIDE WALLS @ 4:1
 FL (IN) = 120.00
 FL (OUT) = 87.00

S-15
 CONST. FDOT TYPE G INLET
 STA: 12+22.00 O/S: 0.00
 TOP EL. = 99.00
 FL (IN) = 88.69 (P-18)
 FL (IN) = 89.19 (P-20)
 FL (OUT) = 87.18 (P-19)

PROPOSED POND
 BOTTOM = 87.00



CROCKET ST. & CRESTFIELD CIR. DRAINAGE IMPROVEMENTS
 ESCAMBIA COUNTY, FLORIDA

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DATE	DESIGNED BY	DATE	REV.	REVISION DESCRIPTION
FEBRUARY 2018	S. WHITE			
	G. EDWARDS			
	C. RILEY			
	S. WHITE			
	S. WHITE			
	S. WHITE			
	M.M. PROJECT NUMBER: 333166			

100% DESIGN PLANS
 STEVEN D. WHITE, P.E.
 FLORIDA LICENSE NO. 58809
 DATE _____ AFFIX SEAL

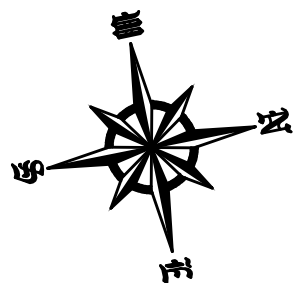
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 PLAN & PROFILE BLUE PIT
STA:
 9+00 to 14+00

SHEET NUMBER:
C-021

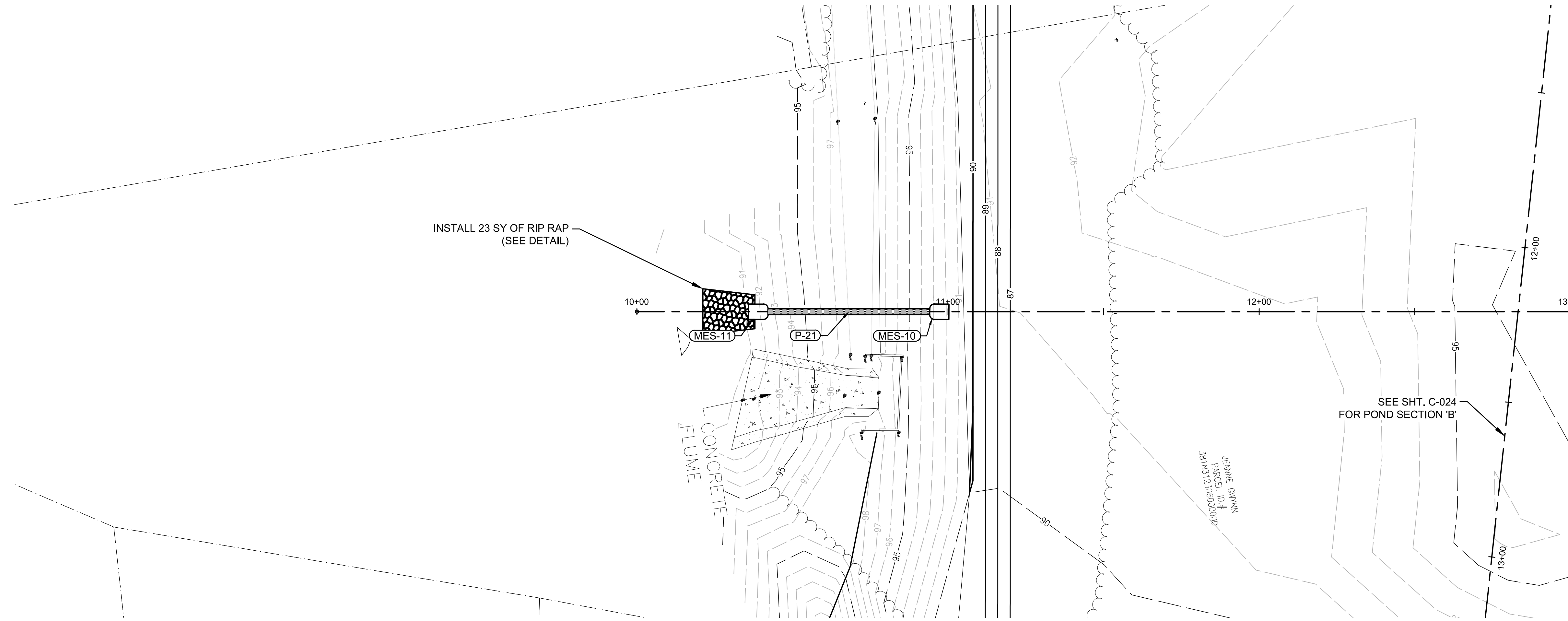
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 Plot File Name: C-022 Pond Section - Blue Pit.dwg

HORIZ SCALE: 1" = 20 FT. (22x34)
 1" = 40 FT. (11x17)
 VERT SCALE: 1" = 5 FT. (22x34)
 1" = 10 FT. (11x17)



BLUE PIT SECTION SOUTH - NORTH (STORMWATER POND)

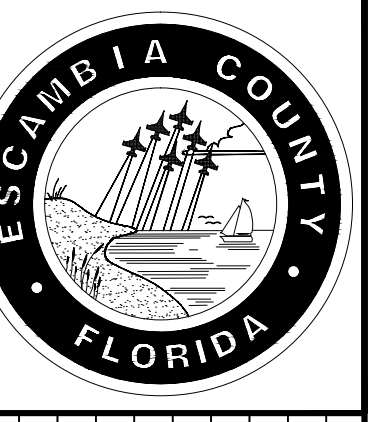


Elevations		Station
EG	FG	8+00
EG	FG	9+00
EG	FG	10+00
EG	FG	11+00
EG	FG	12+00
EG	FG	13+00
EG	FG	115
EG	FG	110
EG	FG	105
EG	FG	100
EG	FG	95
EG	FG	90
EG	FG	85
EG	FG	80

Station	Notes
EG 90.31 FG	MES-11 CONST. 18" MES (4:1) STA: 10+39.91 O/S: 0.02 R TOP EL. = 92.21 FL (IN) = 90.50 (P-21)
EG 94.18 FG	P-21 CONST. 56 LF OF 18" RCP @ 0.89%
EG 97.70 FG	MES-10 CONST. 18" MES (4:1) STA: 10+96.31 O/S: 0.00 TOP EL. = 92.71 FL (OUT) = 91.00 (P-21)
EG 91.85 FG	SOD POND SIDES SOD PINS SHALL BE USED ON ALL SLOPES 4H:1V OR STEEPER
EG 91.04 FG 87.00	EXISTING POND BOTTOM
EG 91.46 FG 87.00	PROPOSED POND BOTTOM = 87.00
EG 91.57 FG 87.00	
EG 91.68 FG 87.00	
EG 92.44 FG 87.00	
EG 94.13 FG 87.00	
EG 95.04 FG 87.00	

100% DESIGN PLANS
 DESIGNED BY: STEVEN D. WHITE, P.E.
 DRAWN BY: G. EDWARDS
 PROJECT ENGINEER: C. RILEY
 PROJECT MANAGER: S. WHITE
 M.M. PROJECT NUMBER: S. WHITE
 DATE: _____
 AFX
 SEAL
SHEET TITLE:
**POND SECTION A
 BLUE PIT**
**STORMWATER
 POND**
SHEET NUMBER:
C-022

DATE	REV.	REVISION DESCRIPTION
FEBRUARY 2018		DESIGNED BY: S. WHITE DRAWN BY: G. EDWARDS PROJECT ENGINEER: C. RILEY PROJECT MANAGER: S. WHITE M.M. PROJECT NUMBER: S. WHITE 333166

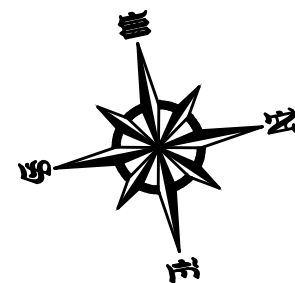
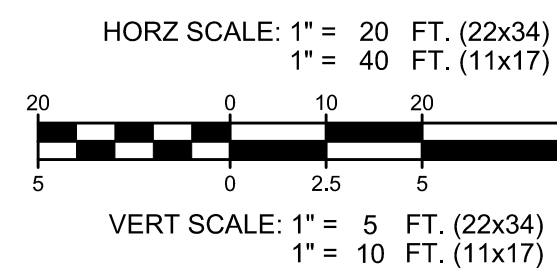


**CROCKET ST. &
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 DRAINAGE
 IMPROVEMENTS**
 ESCAMBIA COUNTY,
 FLORIDA

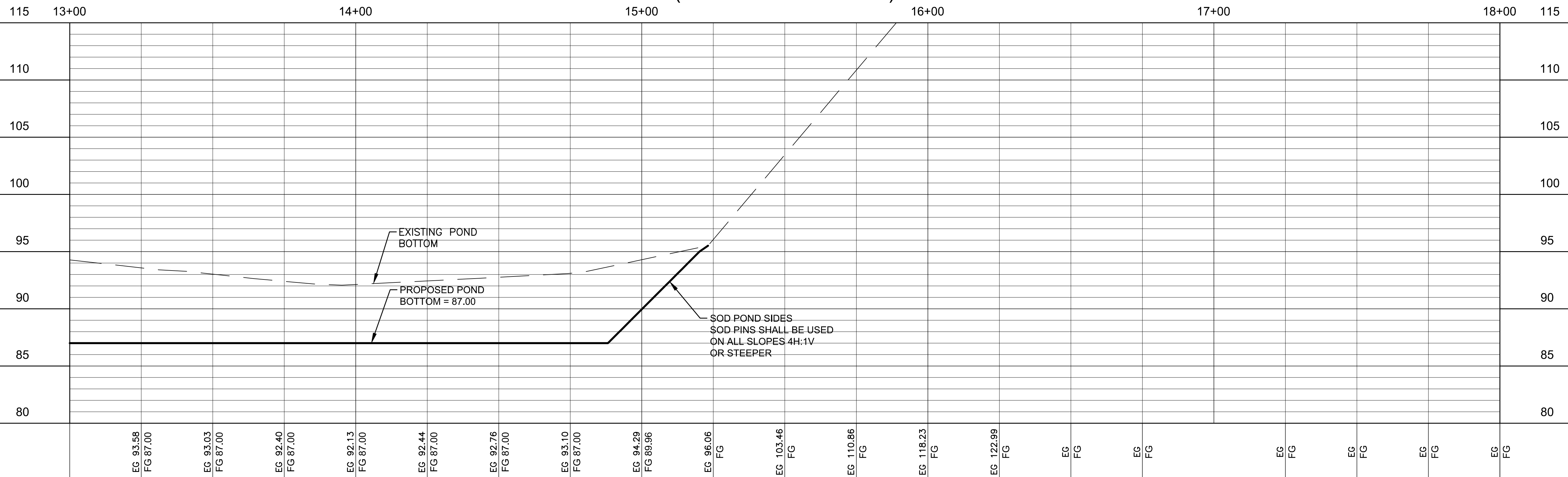
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MATCHLINE STA: 13+00 - SHT. C-022



BLUE PIT SECTION SOUTH - NORTH (STORMWATER POND)



User Name: rwh65767
Date: 2/13/2018 1:28:12 PM
Drawing Path: P:\333166 - Crockett Street & Crestfield Circle\Drawings\Civil\CAD Drawings\Sheets\Plan Set
Plot File Name: C-023 Pond Section A Blue Pit.dwg

REVISION DESCRIPTION

DATE | REV.

DESIGNED BY:
DRAWN BY:
PROJECT ENGINEER
PROJECT MANAGER:
M.M. PROJECT NUMBER:

100% DESIGN PLANS

SHEET TITLE:

SHEET NUMBER:

S. WHITE
G. EDWARDS
C. RILEY
S. WHITE
S. WHITE
333166

STEVEN D. WHITE, P.E.
FLORIDA LICENSE NO. 58809

DATE

AFIX
SEAL

C-023



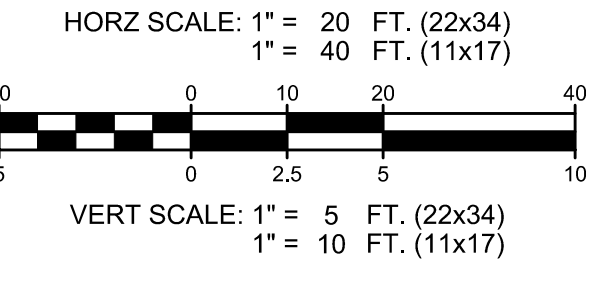
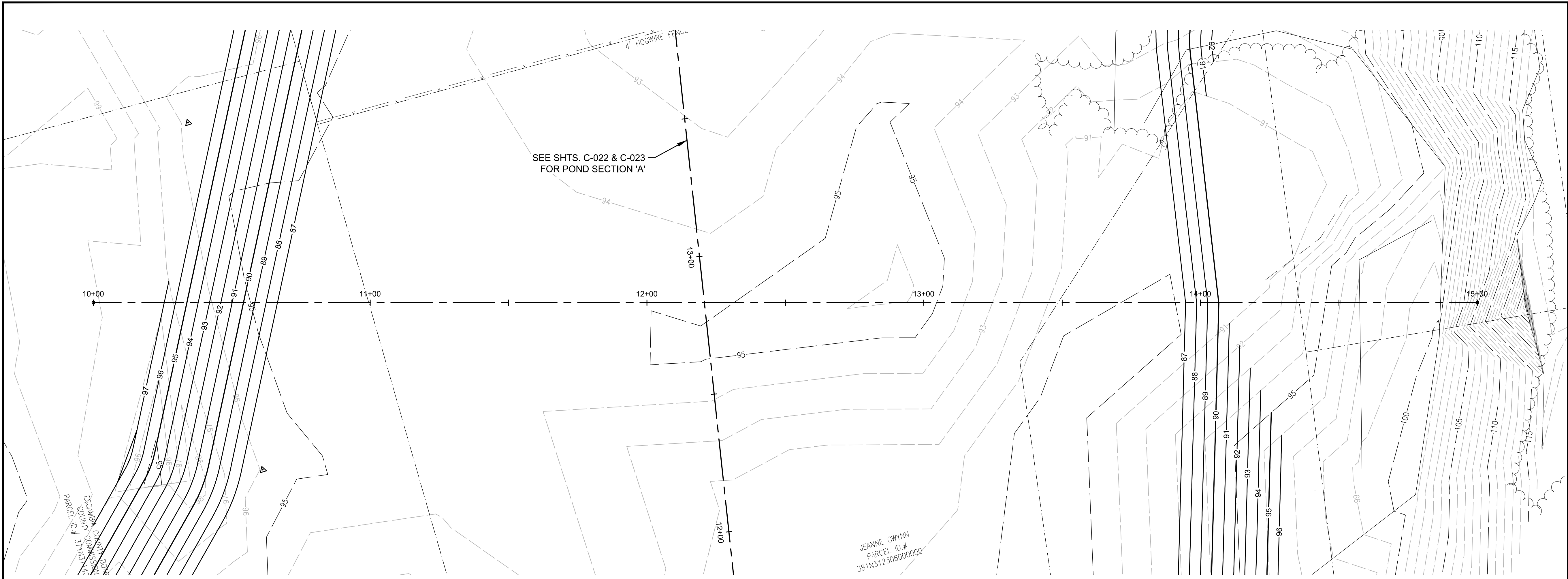
**CROCKET ST. &
CRESTFIELD CIR.
DRAINAGE
IMPROVEMENTS
ESCAMBIA COUNTY,
FLORIDA**

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Architects Engineers Surveyors
AA-0000035 EB-0000155 LB-0000783

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User Name: epc06577
 Title: 12/20/18 - 1:20:20PM
 Drawing Path: P:\333166 - Crockett Street & Crestfield Cir\Drawings\Civil\Drawings\Sheets\Plan Set
 Drawing Name: C-024 Pond Section B Blue Pit.dwg
 Plot File Name:



BLUE PIT SECTION WEST - EAST (STORMWATER POND)

ELEVATION	STATION	STATION	STATION	STATION	STATION	STATION	STATION	STATION	STATION	STATION	STATION	STATION	STATION	STATION	STATION	STATION	STATION	STATION	
115	10+00	11+00	12+00	13+00	14+00	15+00	115												
110							110												
105							105												
100							100												
95							95												
90							90												
85							85												
80							80												
	EG 97.29 FG	EG 95.49 FG 91.03	EG 94.31 FG 87.00	EG 94.27 FG 87.00	EG 94.27 FG 87.00	EG 94.27 FG 87.00	EG 94.58 FG 87.00	EG 94.93 FG 87.00	EG 94.85 FG 87.00	EG 95.42 FG 87.00	EG 95.99 FG 87.00	EG 95.46 FG 87.00	EG 92.98 FG 87.00	EG 90.50 FG 87.00	EG 89.93 FG 87.00	EG 90.17 FG 88.35	EG 91.47 FG	EG 95.90 FG	EG 98.87 FG

SOD POND SIDES
 SOD PINS SHALL BE USED
 ON ALL SLOPES 4H:1V
 OR STEEPER

SOD POND SIDES
 SOD PINS SHALL BE USED
 ON ALL SLOPES 4H:1V
 OR STEEPER

EXISTING POND
 BOTTOM

PROPOSED POND
 BOTTOM = 87.00

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CROCKET ST. & CRESTFIELD CIR. DRAINAGE IMPROVEMENTS
 ESCAMBIA COUNTY, FLORIDA



DATE	REV.	REVISION DESCRIPTION

DESIGNED BY:	S. WHITE
DRAWN BY:	G. EDWARDS C. RILEY
PROJECT ENGINEER:	S. WHITE
PROJECT MANAGER:	S. WHITE
M.M. PROJECT NUMBER:	333166

100% DESIGN PLANS
 STEVEN D. WHITE, P.E.
 FLORIDA LICENSE NO. 58809
 DATE: _____ AFFIX SEAL

SHEET TITLE:
 POND SECTION B
 BLUE PIT

STORMWATER POND

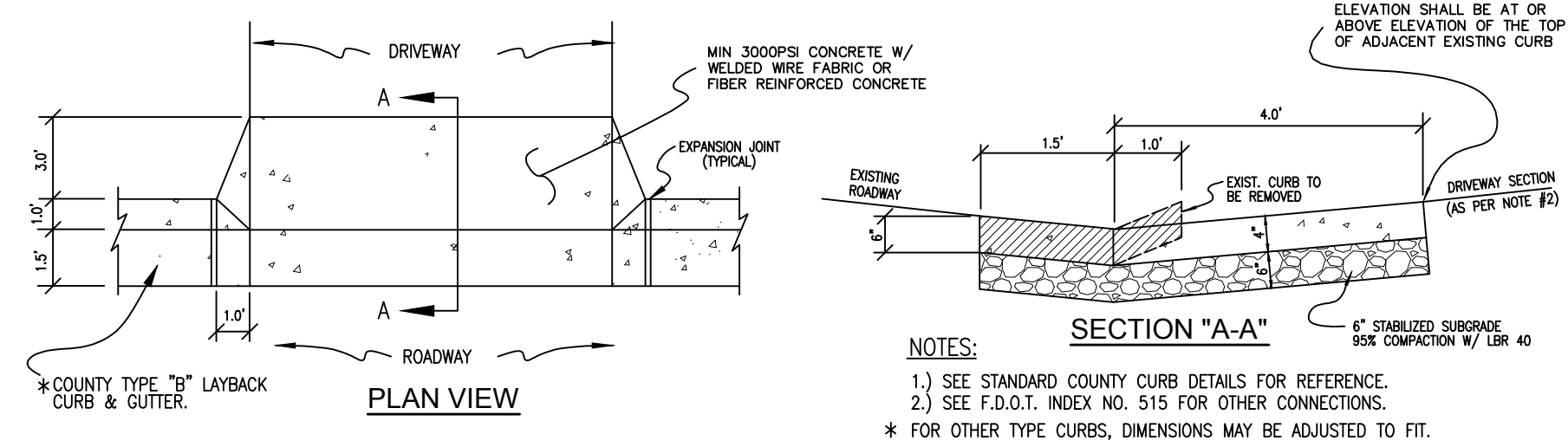
SHEET NUMBER:
 C-024

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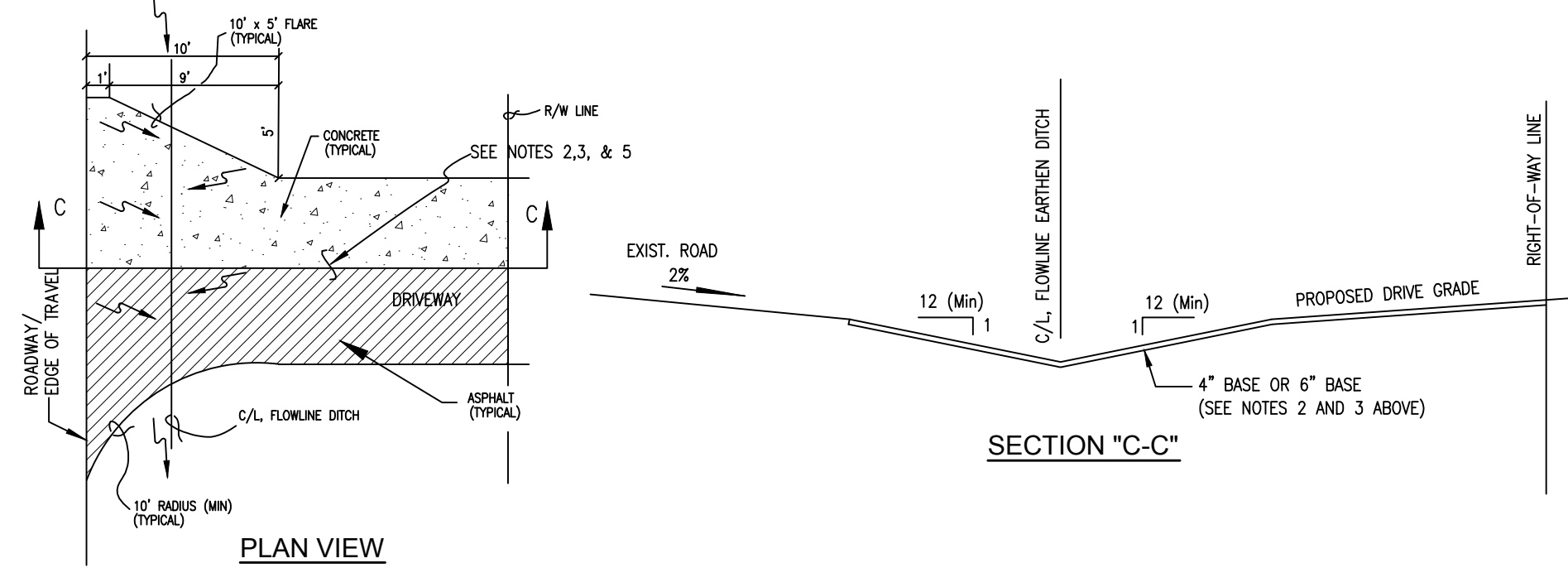
NOTES:

- ALL MATERIALS AND LABOR FOR INSTALLATION WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.
- DRIVEWAYS ABUTTING PAVED ROADS SHALL BE 1-1/2" ASPHALT WITH 6" STABILIZED SUBGRADE OR 4" TO 6" CONCRETE WITH 4" STABILIZED SUBGRADE ~ 95% COMPACTION (MODIFIED PROCTOR) WITH LBR 40 BETWEEN EDGE OF ROADWAY AND R/W LINE.
- DRIVEWAYS ABUTTING A DIRT ROAD SHALL BE MILLED ASPHALT, GRADED AGGREGATE BASE, OR WASHED CONCRETE (4" IN DEPTH) ON THE COUNTY MAINTAINED PORTION OF DRIVEWAY.
- IF NECESSARY, REFER TO F.D.O.T. INDEX DETAILS AS REFERENCED BELOW.
- RADIUS OR FLARE IS ACCEPTABLE FOR TYPE II OR TYPE III CONNECTIONS.
- DRIVEWAYS WITHIN PROPERTY BOUNDARY SHALL PROVIDE A MINIMUM OF 2 PARKING SPACES.
- TYPICAL DRIVEWAY SECTIONS ARE TO BE 12' WIDE MINIMUM.

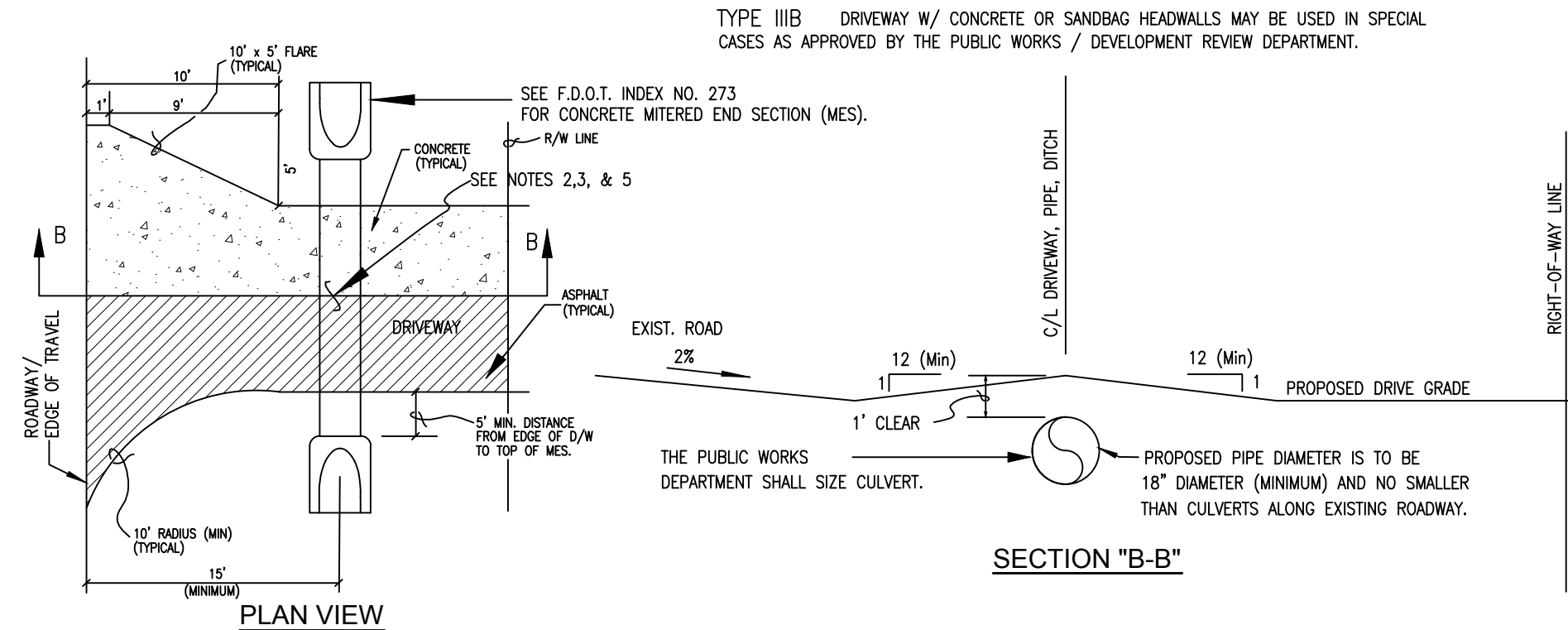
TYPE I CURB CUT DRIVEWAY FOR COUNTY TYPE "B" LAYBACK CURBS.



TYPE II DIPPED DRIVEWAY WITHOUT CROSS PIPE (CULVERT)



TYPE III-A CROSS PIPE (CULVERT) DRIVEWAY



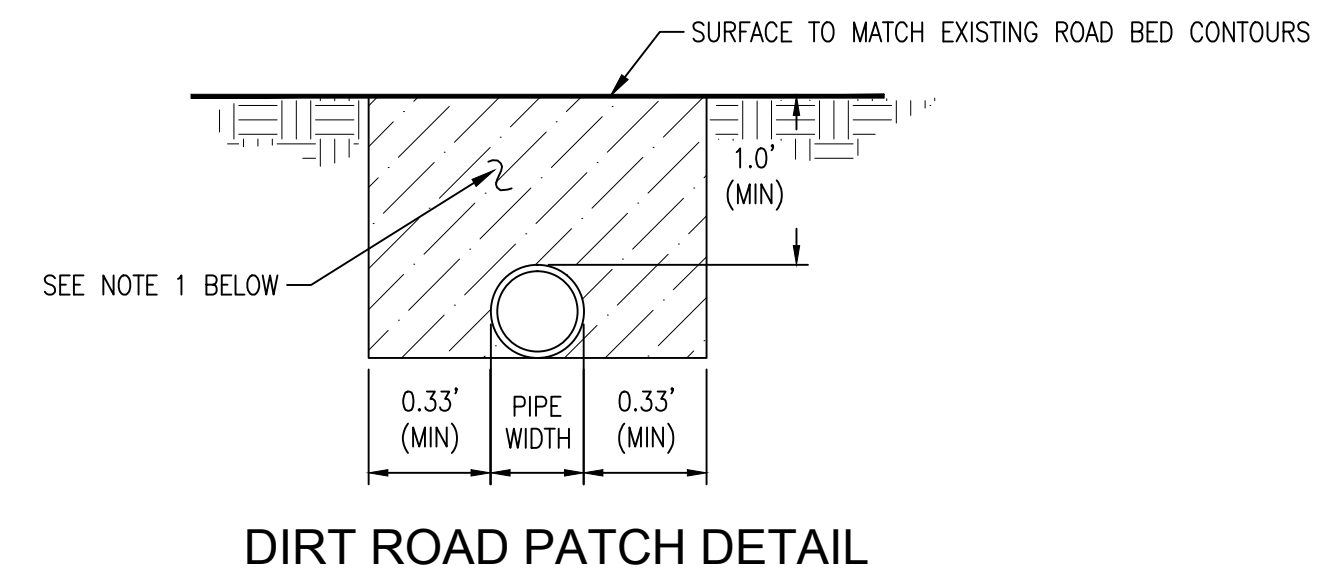
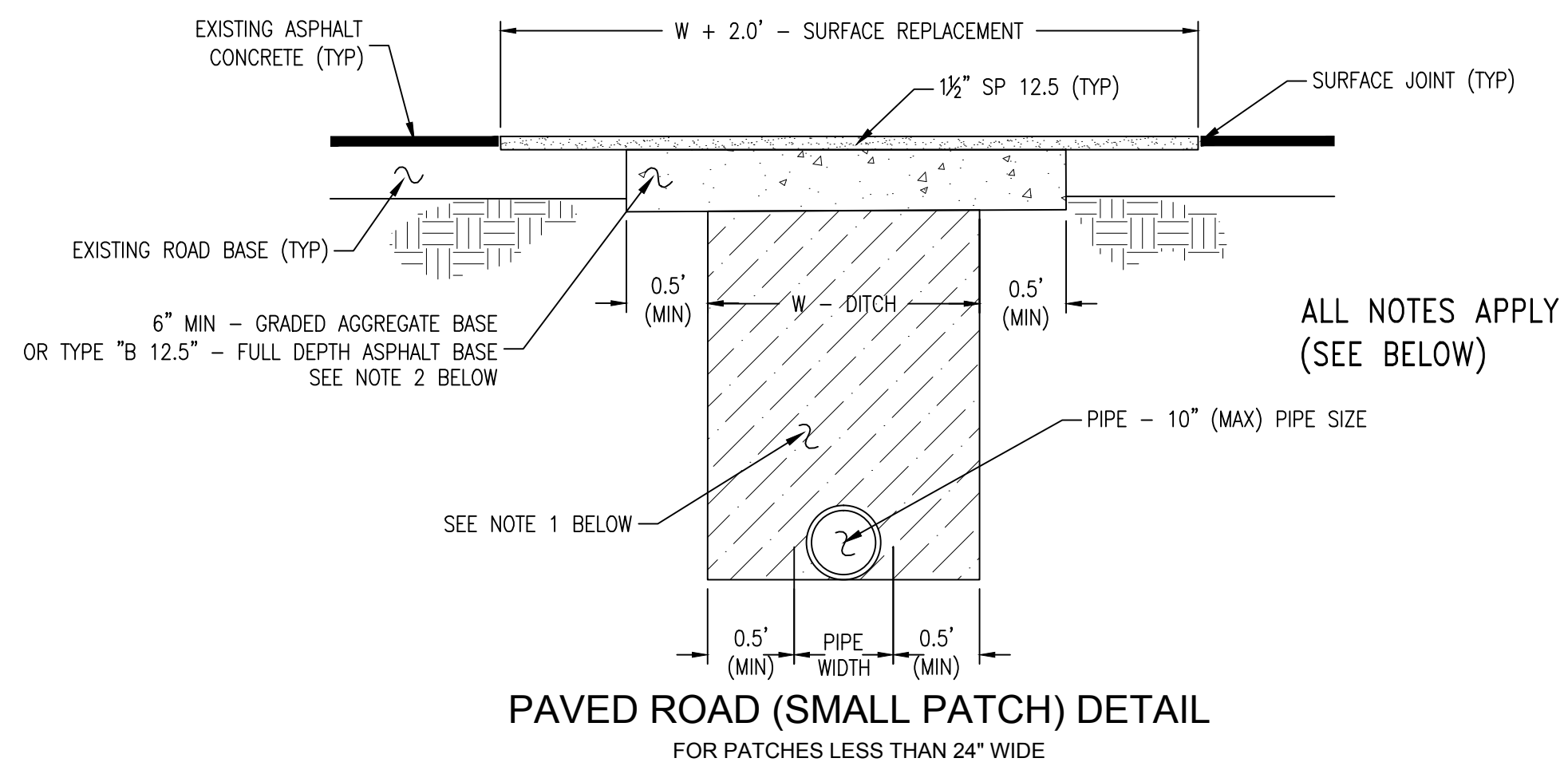
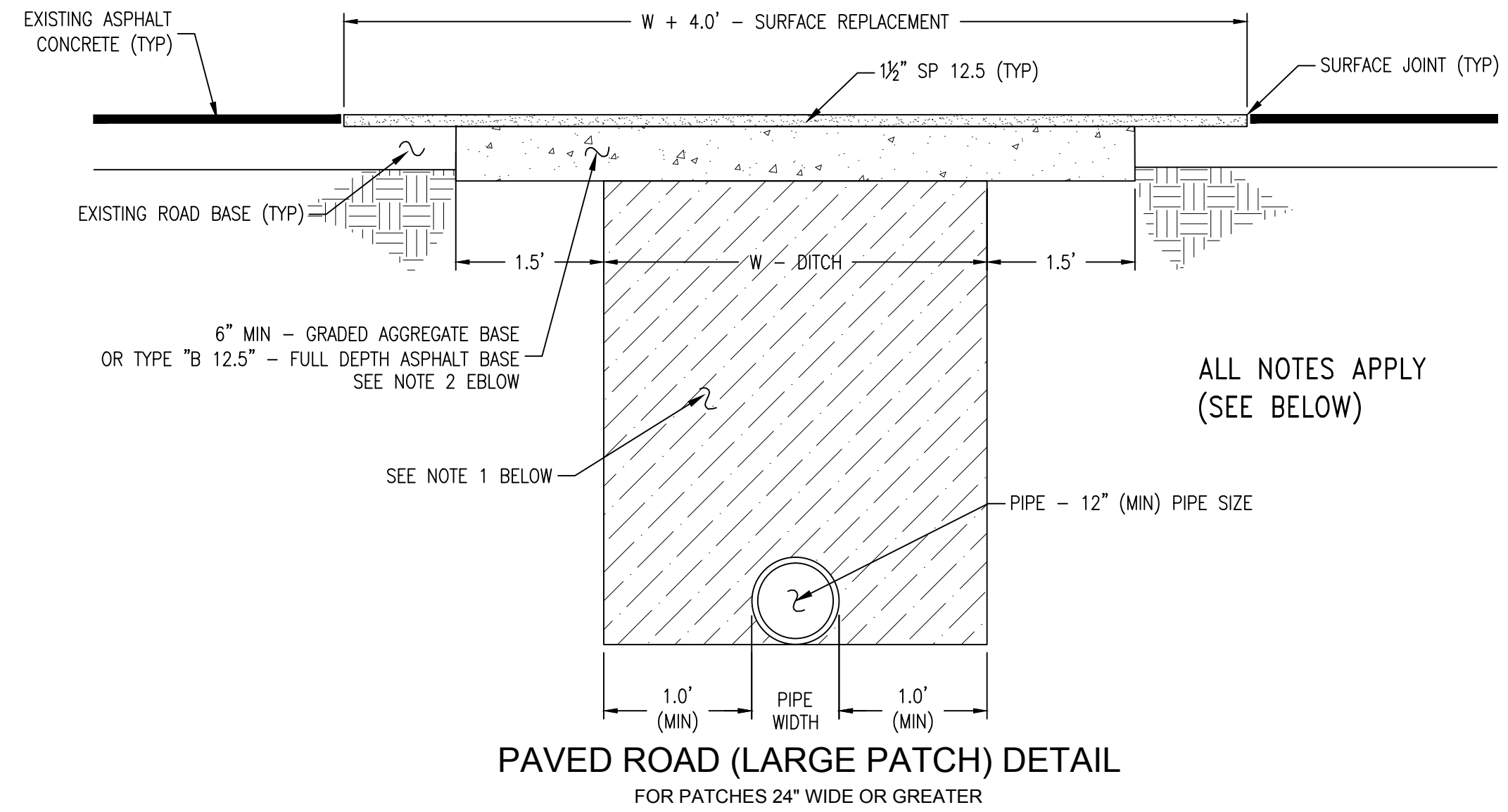
TYPE IV SPECIAL DRIVEWAY CONNECTION

TYPE IV-A REQUIRES A F.D.O.T. CONNECTION PERMIT (PROVIDE APPROVED F.D.O.T. PERMIT TO OBTAIN COUNTY APPROVAL). REFER TO INDEX NO. 515 AND CONTACT F.D.O.T. AT (850) 981-3000. MAY REQUIRE PLANS PREPARED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER (P.E.).

TYPE IV-B SPECIAL INNOVATIVE CONNECTION AS DESIGNED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER (P.E.) AND AS APPROVED BY THE APPROPRIATE PUBLIC WORKS / DEVELOPMENT REVIEW STAFF. ATTACH PLAN FOR REVIEW.

TYPICAL DRIVEWAY CONNECTION STANDARDS FOR EXISTING ROADWAY CONDITIONS

N.T.S.



NOTES:

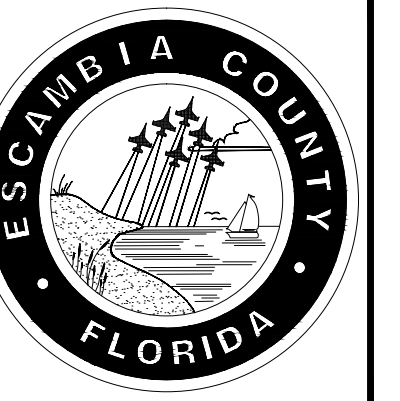
- DIRT ROAD PATCH WORK SUB BASE MATERIAL SHALL BE PLACED IN NOT MORE THAN 8" LIFTS. EACH LAYER TO BE TAMPED TO A MINIMUM OF 40 LBR.
- GRADED AGGREGATE BASE SHALL BE COMPACTED TO A MIN LBR 100.
- ROAD CUTS SHALL BE MECHANICALLY SAW CUT TO FORM A SURFACE PAVEMENT JOINT AND TACK COATED ALONG THE FACE OF CUT JOINTS PRIOR TO ASPHALT PLACEMENT.
- LONGITUDINAL ROAD CUTS THAT AFFECT ONE TRAVEL LANE SHALL REQUIRE MILLING AND REPAVING OF THE AFFECTED TRAVEL LANE 5.0' BEYOND THE CUT AND PATCHED WITH THE SAME BASE MATERIAL. LONGITUDINAL ROAD CUTS THAT AFFECT BOTH TRAVEL LANES SHALL REQUIRE MILLING AND REPAVING OF THE ENTIRE ROADWAY 5.0' BEYOND THE CUT AND PATCHED WITH THE SAME BASE MATERIAL.

ESCAMBIA COUNTY PATCH DETAILS

N.T.S.

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MOTT MACDONALD
CROCKET ST. & CRESTFIELD CIR.
DRAINAGE IMPROVEMENTS
ESCAMBIA COUNTY, FLORIDA

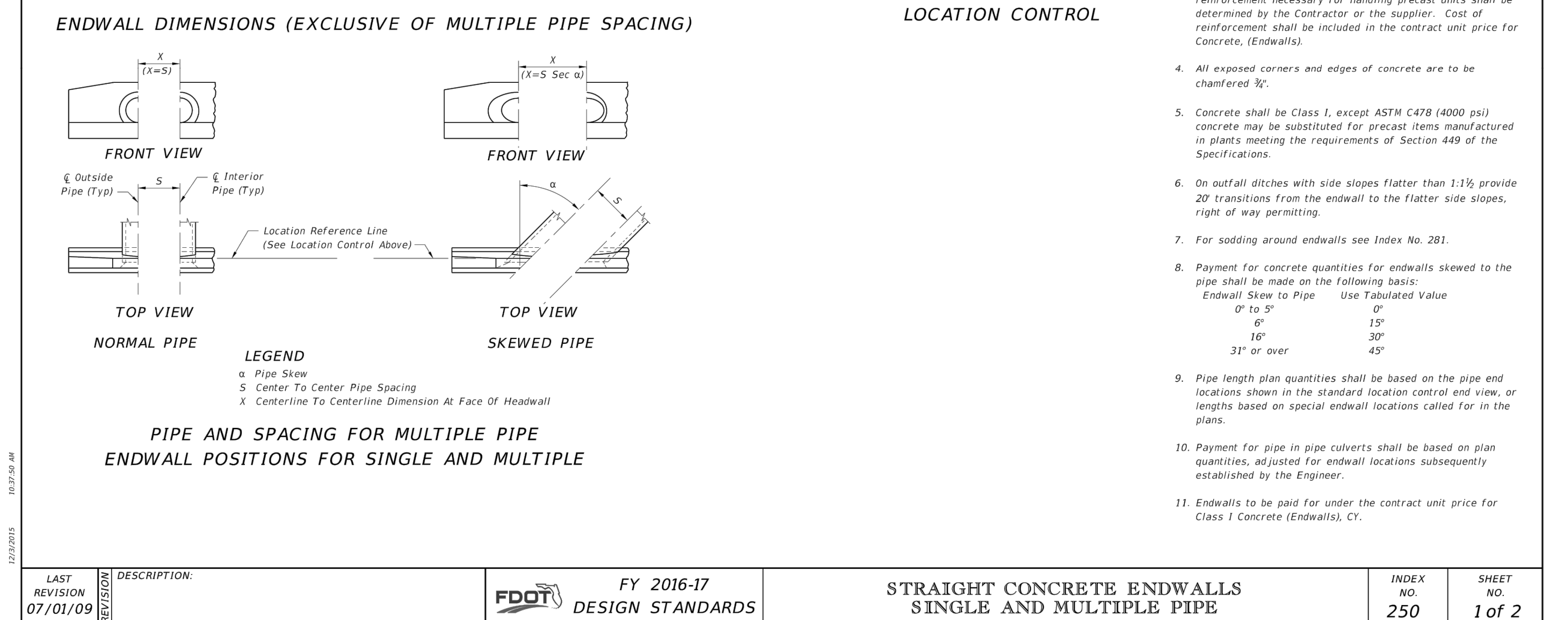
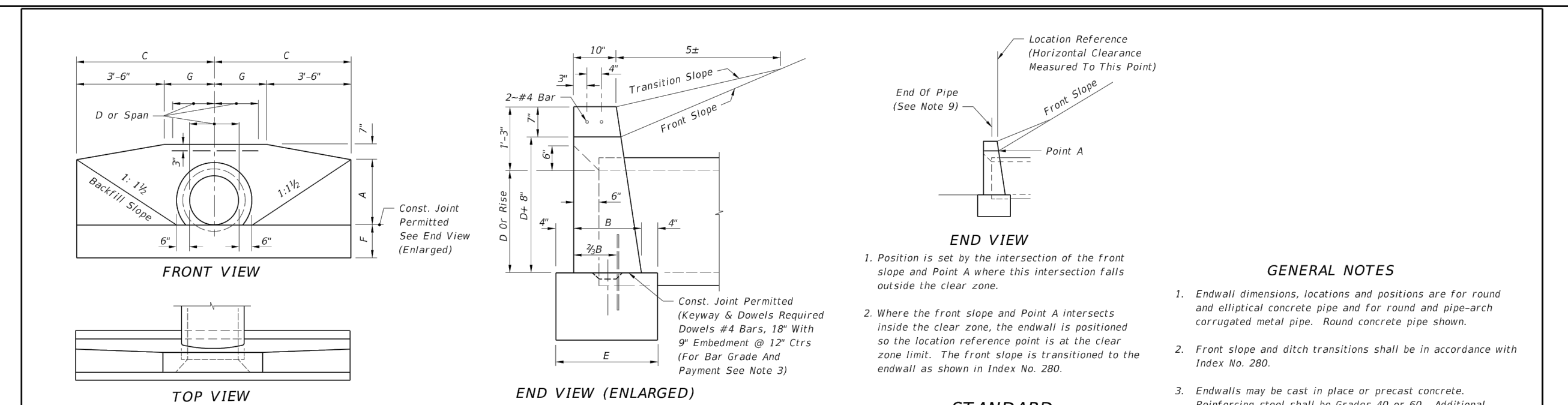


DATE	DESIGNED BY	DRAWN BY	PROJECT ENGINEER	PROJECT MANAGER	M.M. PROJECT NUMBER
FEBRUARY 2018	S. WHITE	G. EDWARDS	S. WHITE	S. WHITE	333166

100% DESIGN PLANS
STEVEN D. WHITE, P.E.
FLORIDA LICENSE NO. 58809
DATE
AFFIX SEAL

SHEET TITLE:
DETAILS

SHEET NUMBER:
C-025



DATA AND ESTIMATED QUANTITIES FOR ONE ENDWALL
ROUND CONCRETE AND CORRUGATED METAL PIPE

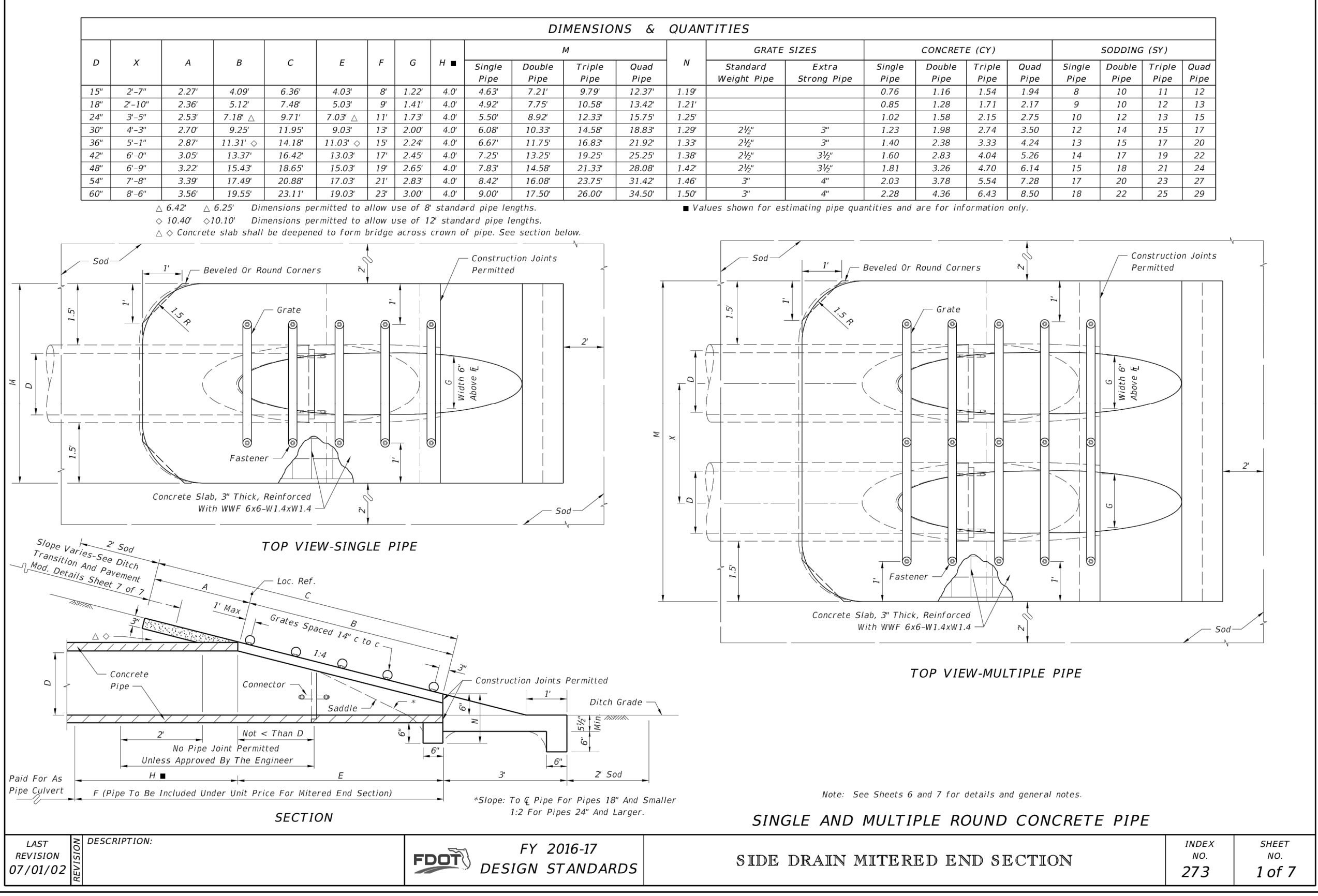
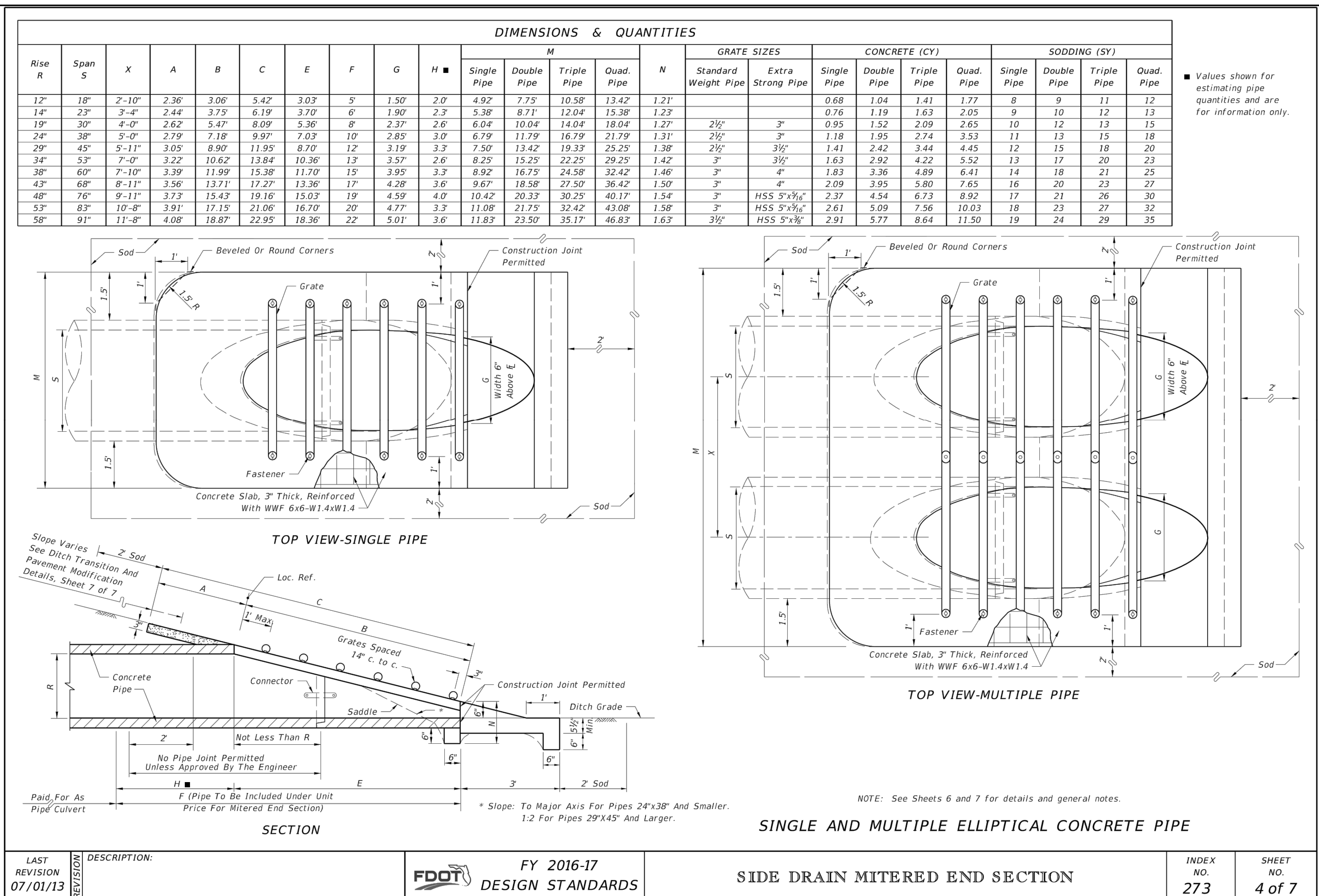
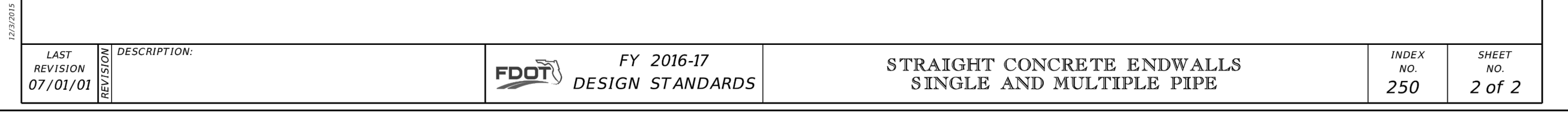
Opening Area (SF)	Dimensions												Number And Type Of Pipe And Skew Angle Of Pipe																																							
	A				B				C				E				F				G				S																											
	1-2-3-4				1-2-3-4				1-2-3-4				1-2-3-4				1-2-3-4				1-2-3-4				1-2-3-4																											
15'	1.23	2.46	3.69	4.92	1'-11"	1'-2"	4'-0"	1'-10"	1'-2"	0'-0"	2'-2"	2'-8"	3'-0"	3'-8"	1'-23	1'-24	1'-25	1'-26	1'-27	1'-28	1'-29	1'-30	1'-31	1'-32	0'-0"	15'	30'	45'	0'-0"	15'	30'	45'	0'-0"	15'	30'	45'	0'-0"	15'	30'	45'	0'-0"	15'	30'	45'	0'-0"	15'	30'	45'	0'-0"	15'	30'	45'

CORRUGATED METAL PIPE ARCH

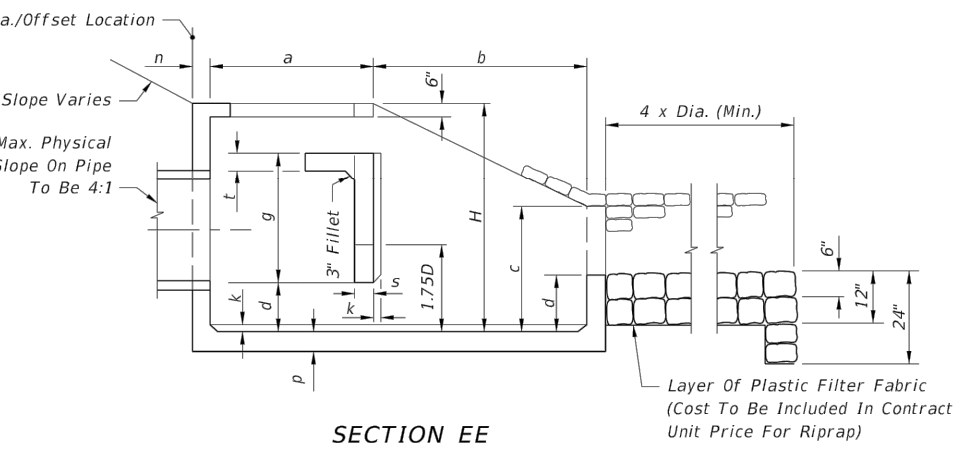
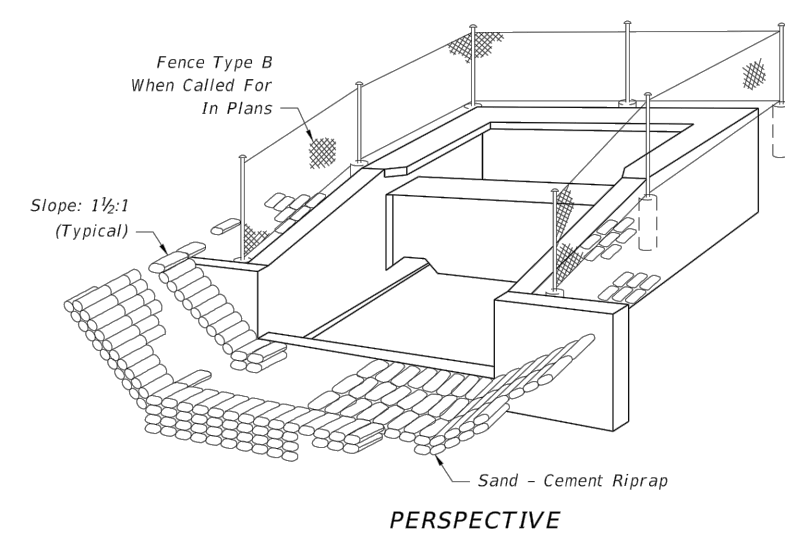
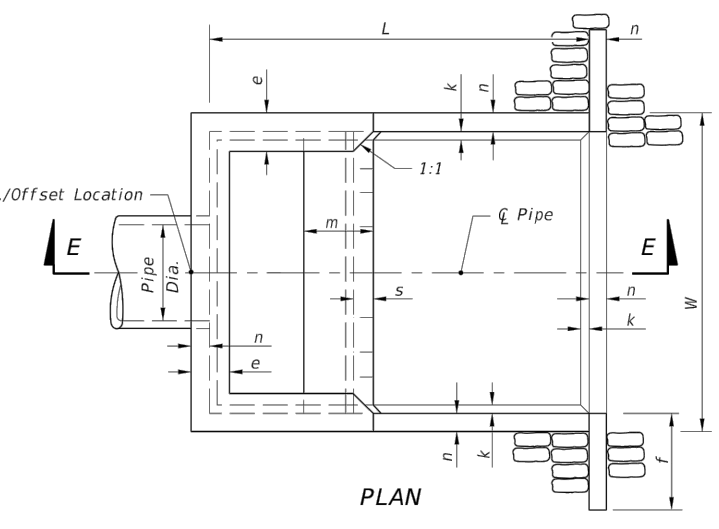
Span	Rise	Opening Area (SF)												Dimensions												Number Of Pipe And Skew Angle Of Pipe												Span	Rise	Approx. Equiv. Round Pipe										
		A				B				C				E				F				G				S																								
		1-2-3-4				1-2-3-4				1-2-3-4				1-2-3-4				1-2-3-4				1-2-3-4				1-2-3-4																								
17'	13"	1.1	2.2	3.3	4.4	1'-8"	1'-2"	3'-10"	1'-10"	1'-2"	0'-4"	2'-6"	2'-6"	2'-11"	3'-6"	1'-16	1'-17	1'-18	1'-19	1'-20	1'-21	1'-22	1'-23	0'-0"	15'	30'	45'	0'-0"	15'	30'	45'	0'-0"	15'	30'	45'	0'-0"	15'	30'	45'	0'-0"	15'	30'	45'	0'-0"	15'	30'	45'	17'	13"	18"

CONCRETE ELLIPTICAL PIPE

Rise	Span	Opening Area (SF)												Dimensions												Number Of Pipe And Skew Angle Of Pipe												Rise	Span	Approx. Equiv. Round Pipe							
		A				B				C				E				F				G				S																					
		1-2-3-4				1-2-3-4				1-2-3-4				1-2-3-4				1-2-3-4				1-2-3-4				1-2-3-4																					
12"	18"	1.3	2.6	3.9	5.2	1'-8"	1'-2"	3'-9"	1'-10"	1'-2"	0'-3"	2'-10"	2'-10"	2'-11"	3'-3"	4'-0"	1'-09	1'-10	1'-11	1'-12	1'-13	1'-14	1'-15	1'-16	0'-0"	15'	30'	45'	0'-0"	15'	30'	45'	0'-0"	15'	30'	45'	0'-0"	15'	30'	45'	0'-0"	15'	30'	45'	12"	18"	24"



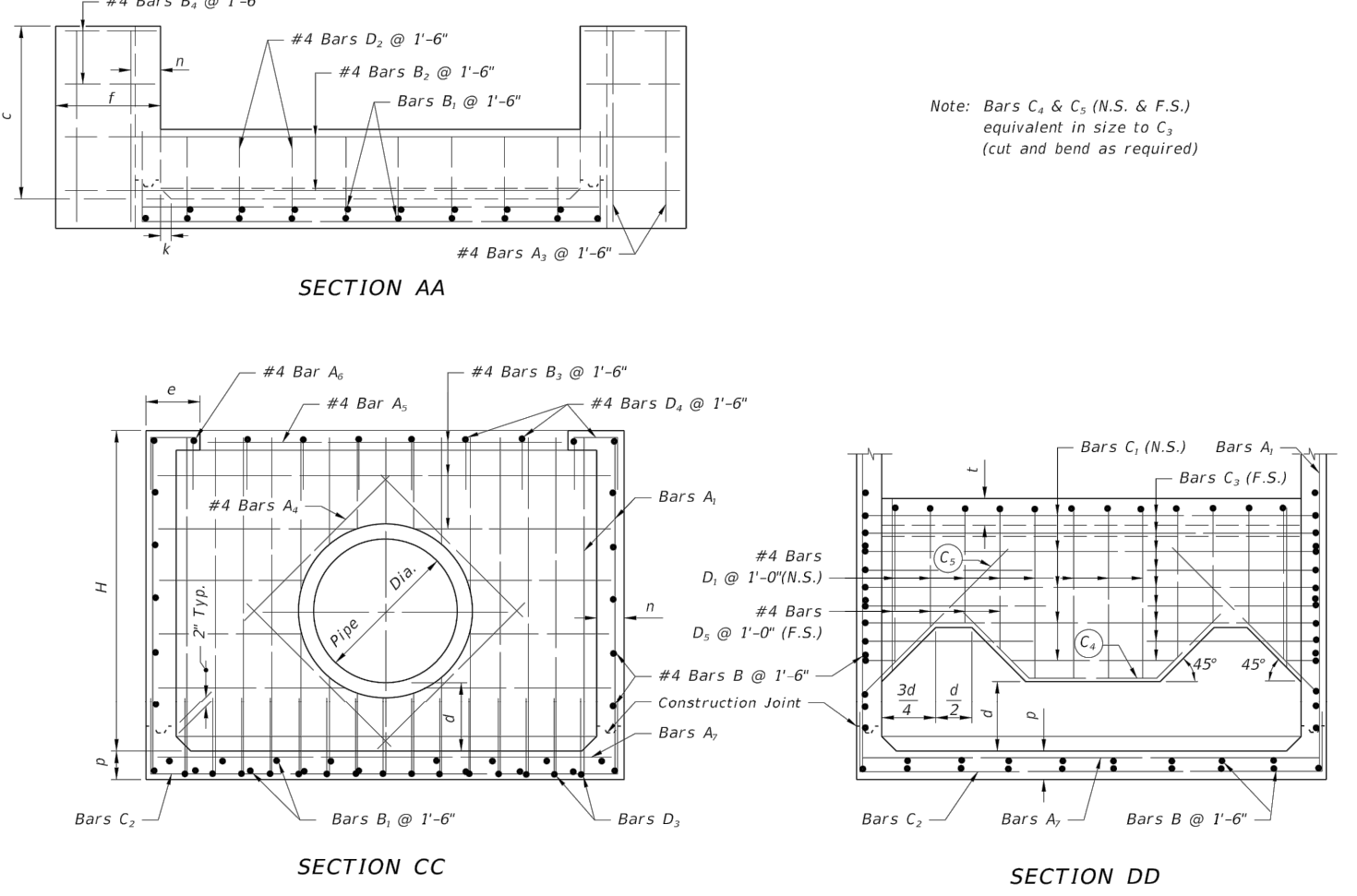
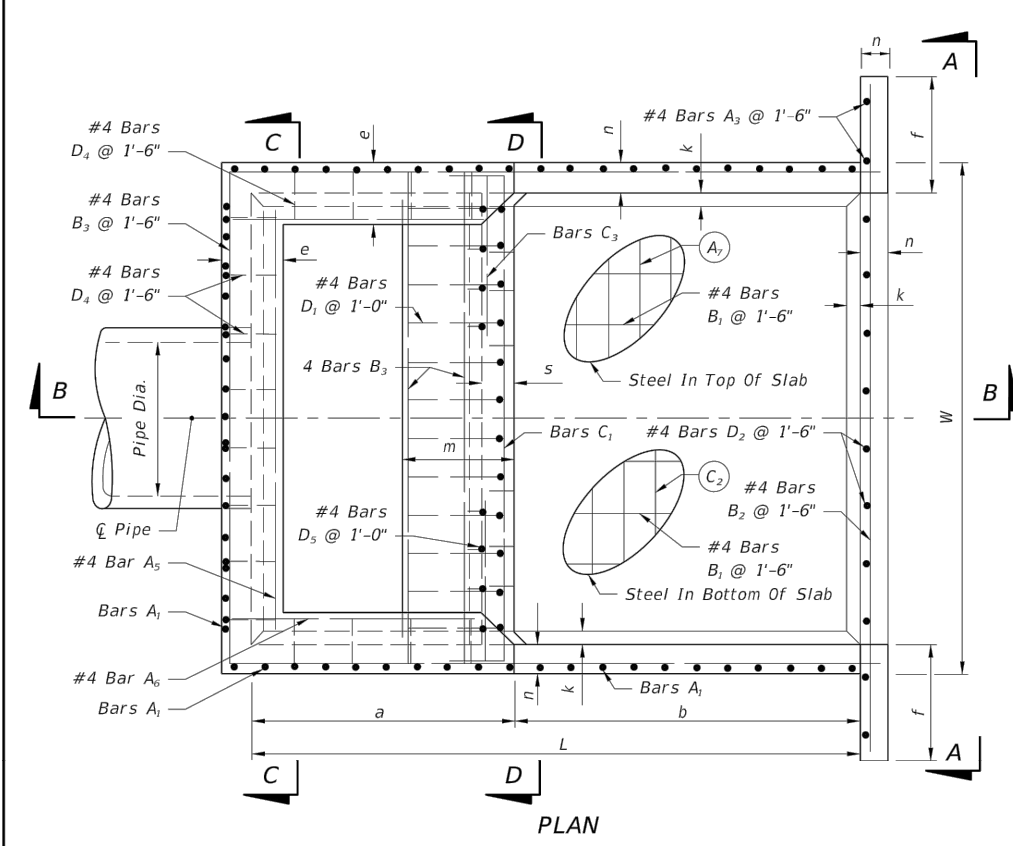
User Name: swh05877
 Title: Staff Engineer
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 Plot File Name:



- GENERAL NOTES**
- U-type concrete endwall energy dissipators are intended for use outside the clear zone.
 - Chamfer all exposed edges 1/4".
 - Concrete shall be Class I, except ASTM C478 (4000 psi) concrete may be substituted for precast items manufactured in plants meeting the requirements of Section 449 of the Specifications.
 - Reinforcing steel shall have 2" min. cover.
 - Endwall to be paid for under the contract unit price for Class I Concrete (Endwalls), Cy and Reinforcing Steel (Roadway), LB. Riprap to be paid for under the contract unit price for Riprap (Sand-Cement) (Roadway), Cy. Cost of plastic filter fabric to be included in the contract unit price for riprap.
 - Fencing, when called for in the plans, to be paid for under the contract unit price for Fencing, Type B, LF. See Index No. 802 for details of Type B Fencing.

Pipe Size Dia. (in)	Area (SF)	Q (Max) (cfs)	Dimensions																		Concrete Class I (CY)	Reinf. Steel (lb)	Sand-Cement Riprap (Nom) (CY)
			Feet - Inches									Inches											
			W	H	L	a	b	c	d	e	f	g	m	n	p	s	t	k					
30	4.91	59	9-0	6-3	10-8	4-7	6-1	3-4	1-4	1-2	2-6	3-0	1-11	6	6 1/2	7	7	3	6.72	736	10.6		
36	7.07	85	10-5	7-3	12-4	5-3	7-1	3-10	1-7	1-3	3-0	3-6	2-3	7	7 1/2	8	8	3	10.34	1,072	13.6		
42	9.62	115	11-10	8-0	14-0	6-0	8-0	4-5	1-9	1-6	3-0	3-11	2-6	8	8 1/2	9	8	4	14.82	1,429	17.5		
48	12.57	151	13-3	9-0	15-8	6-9	8-11	4-11	2-0	1-7	3-0	4-5	2-10	9	9 1/2	10	8	4	20.36	2,000	22.1		
54	15.90	191	14-8	9-9	17-4	7-4	10-0	5-5	2-2	1-10	3-0	4-11	3-0	10	10 1/2	10	8	4	27.18	2,659	27.2		
60	19.63	236	16-1	10-9	19-0	8-0	11-0	5-11	2-5	1-11	3-0	5-4	3-4	11	11 1/2	11	8	6	34.49	3,552	32.5		
66	23.76	285	17-3	11-6	20-6	8-8	11-10	6-5	2-7	2-1	3-0	5-9	3-7	12	12 1/2	12	8	6	42.82	4,472	38.3		
72	28.27	339	18-6	12-3	22-0	9-3	12-9	6-11	2-9	2-3	3-0	6-2	3-9	12	12 1/2	12	8	6	50.68	5,426	44.5		

LAST REVISION 11/01/16	DESCRIPTION:	FDOT FY 2017-18 DESIGN STANDARDS	U-TYPE CONCRETE ENDWALL ENERGY DISSIPATOR 30" TO 72" PIPE	INDEX NO. 264	SHEET NO. 1 of 2
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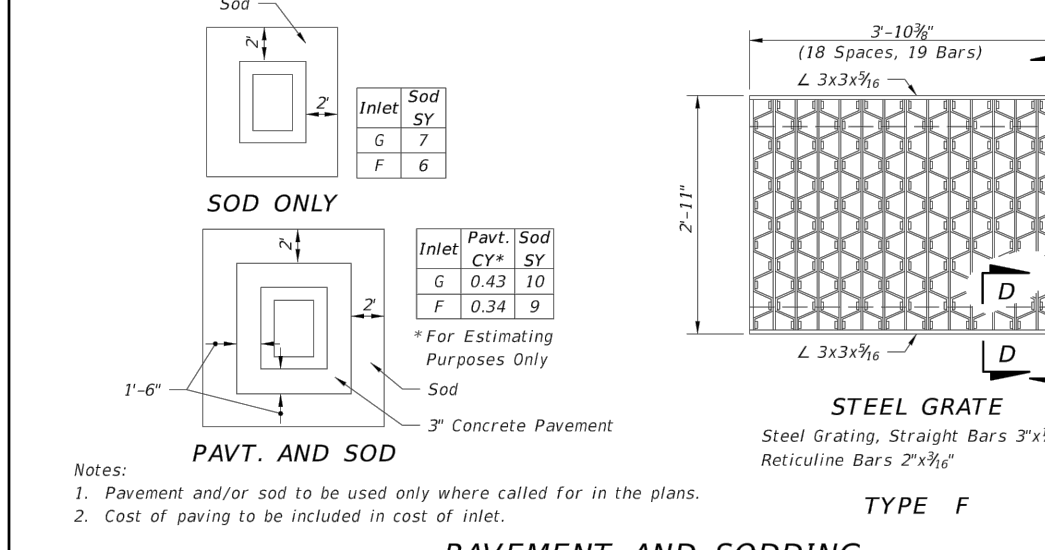
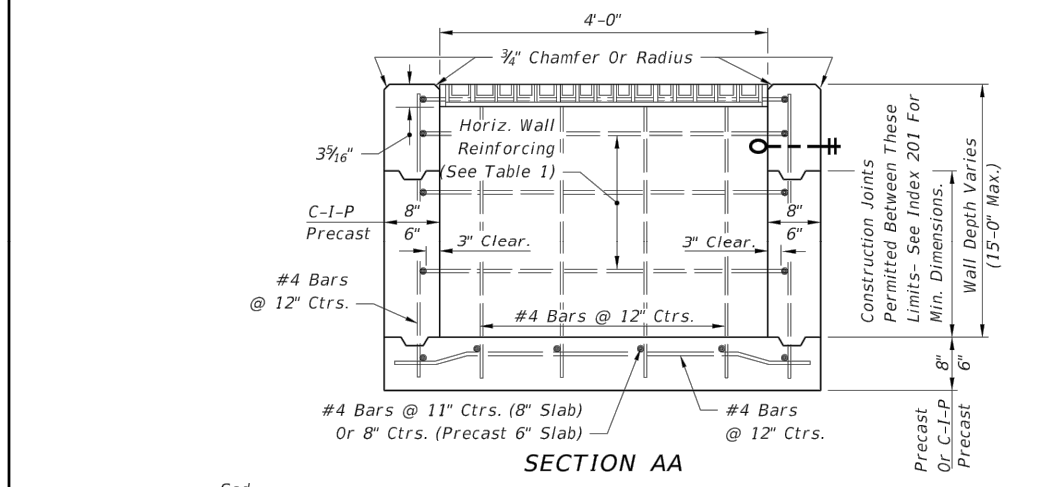
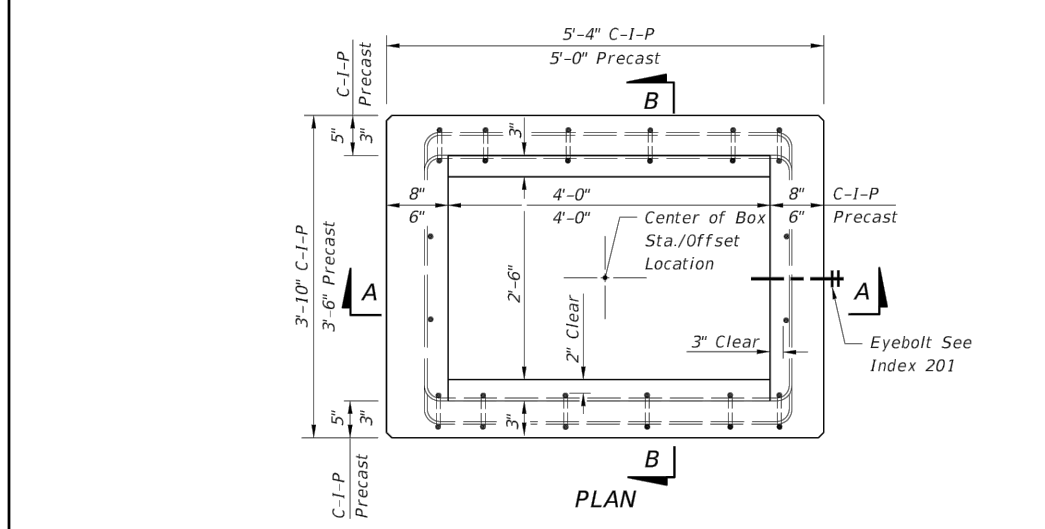


BENT BARS TABLE

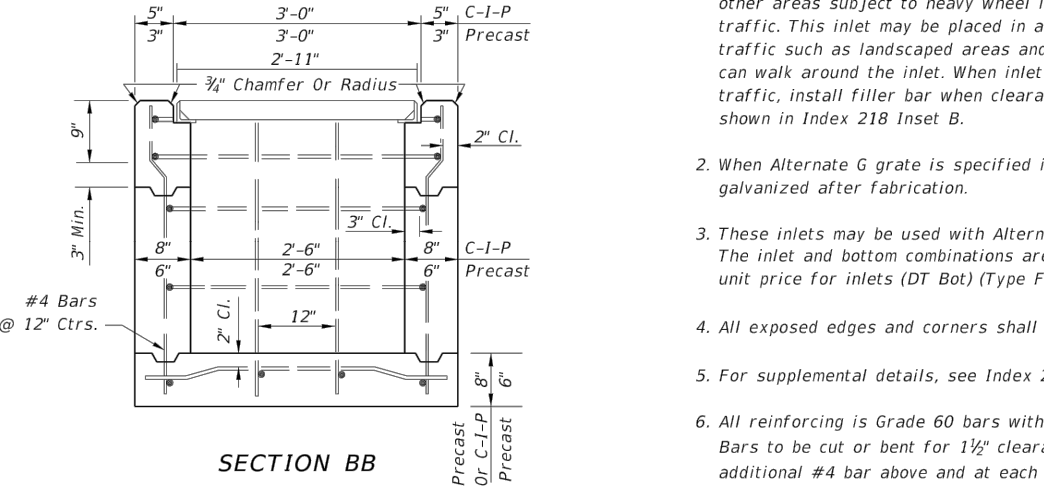
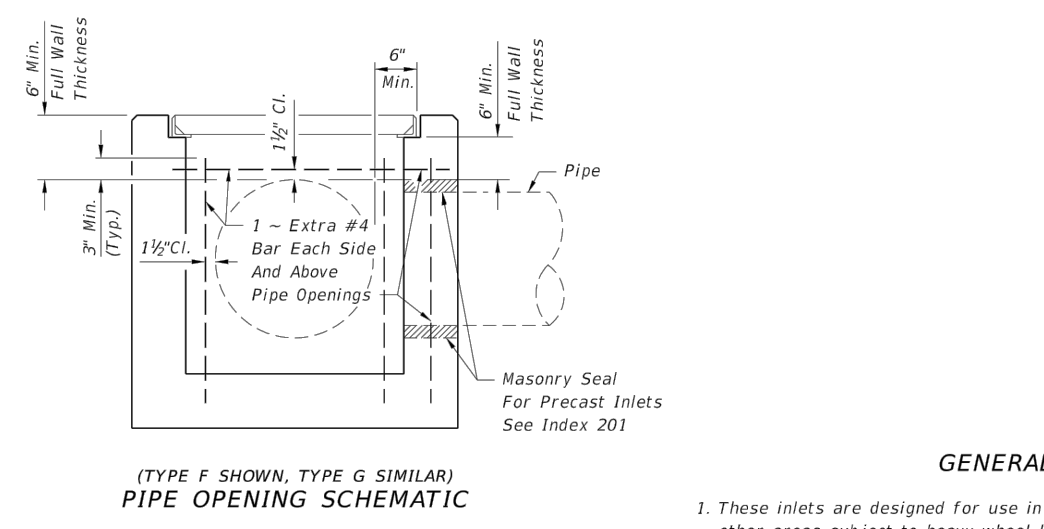
Pipe Size	A ₁		A ₂		C ₁		C ₂		C ₃		D ₁	
	Size (No.)	Spacing (FT-IN)	Size (No.)	Spacing (FT-IN)	Size (No.)	Spacing (FT-IN)	Size (No.)	Spacing (FT-IN)	Size (No.)	Spacing (FT-IN)	Size (No.)	Spacing (FT-IN)
30"	4	0-9 1/2	4	1-6	5	0-11	4	0-9 1/2	5	0-5 1/2	4	0-9 1/2
36"	5	1-0	4	1-6	5	0-10	5	1-0	5	0-5	5	1-0
42"	5	0-11	4	1-6	6	1-1	5	0-11	6	0-6 1/2	5	0-11
48"	5	0-9 1/2	4	1-0	6	1-0	5	0-9 1/2	6	0-6	5	0-9 1/2
54"	5	0-8 1/2	4	0-10	7	1-1	5	0-8 1/2	7	0-6 1/2	5	0-8 1/2
60"	6	0-10	5	1-1	7	1-0	6	0-10	7	0-6	6	0-10
66"	6	0-8 1/2	5	0-11 1/2	7	0-11	6	0-8 1/2	7	0-5 1/2	6	0-8 1/2
72"	6	0-7 1/2	5	0-10	7	0-10	6	0-7 1/2	7	0-5	6	0-7 1/2

Note: Bars A₁, A₂, A₃, A₄, B₁, B₂, B₃, B₄ are straight bars.

LAST REVISION 11/01/16	DESCRIPTION:	FDOT FY 2017-18 DESIGN STANDARDS	U-TYPE CONCRETE ENDWALL ENERGY DISSIPATOR 30" TO 72" PIPE	INDEX NO. 264	SHEET NO. 2 of 2
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LAST REVISION 11/01/16	DESCRIPTION:	FDOT FY 2017-18 DESIGN STANDARDS	DITCH BOTTOM INLET TYPES F AND G	INDEX NO. 233	SHEET NO. 1 of 2
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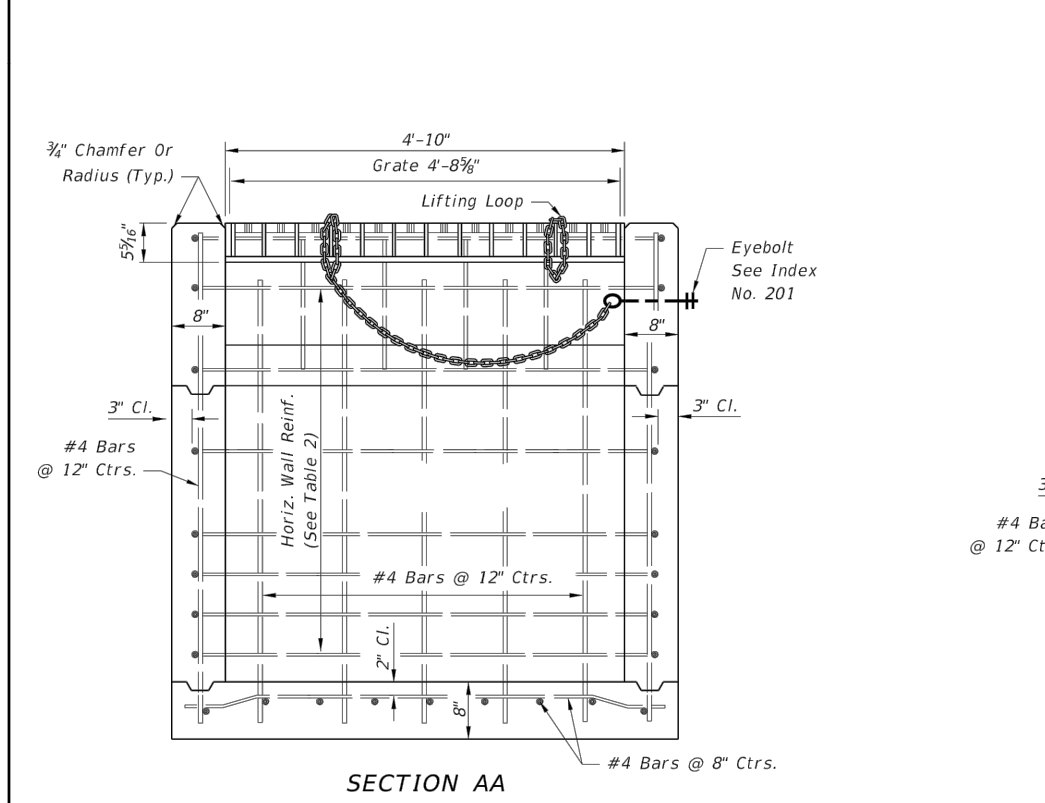
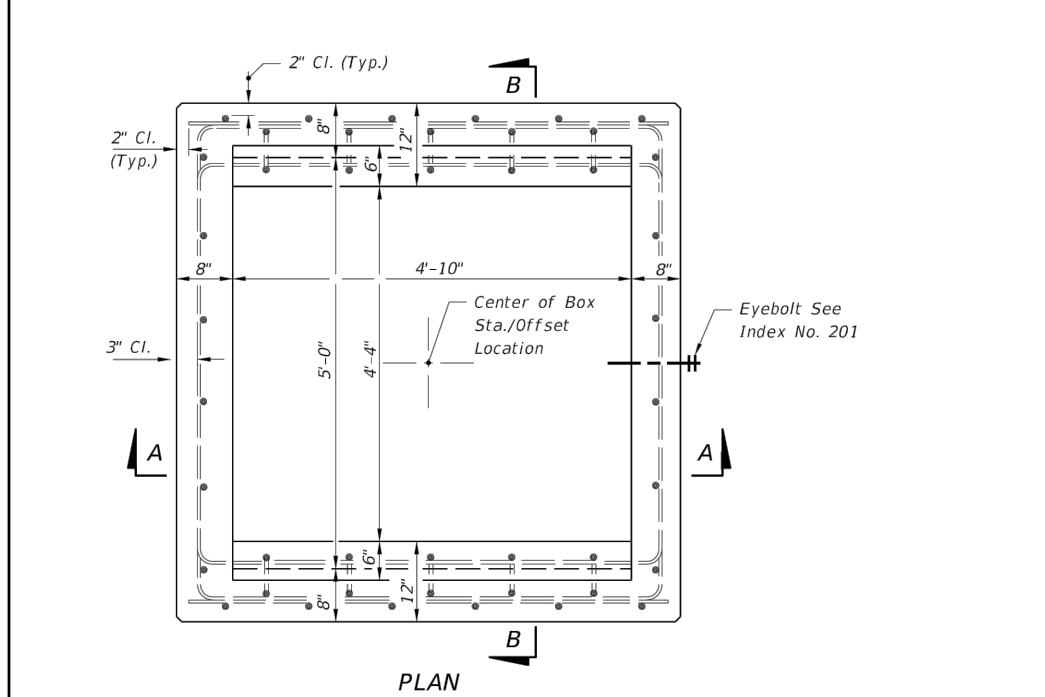
HORIZONTAL WALL REINF. SCHEDULES TYPE F INLET (TABLE 1)

WALL DEPTH	SCHEDULE	AREA (in ² /ft)	MAX. SPACING
0 - 4	A12	0.20	12" 8"
4 - 7	A6	0.20	6" 5"
7 - 12	B5.5	0.24	5 1/2" 5"
12 - 15	Special 1	0.267	5" 4"

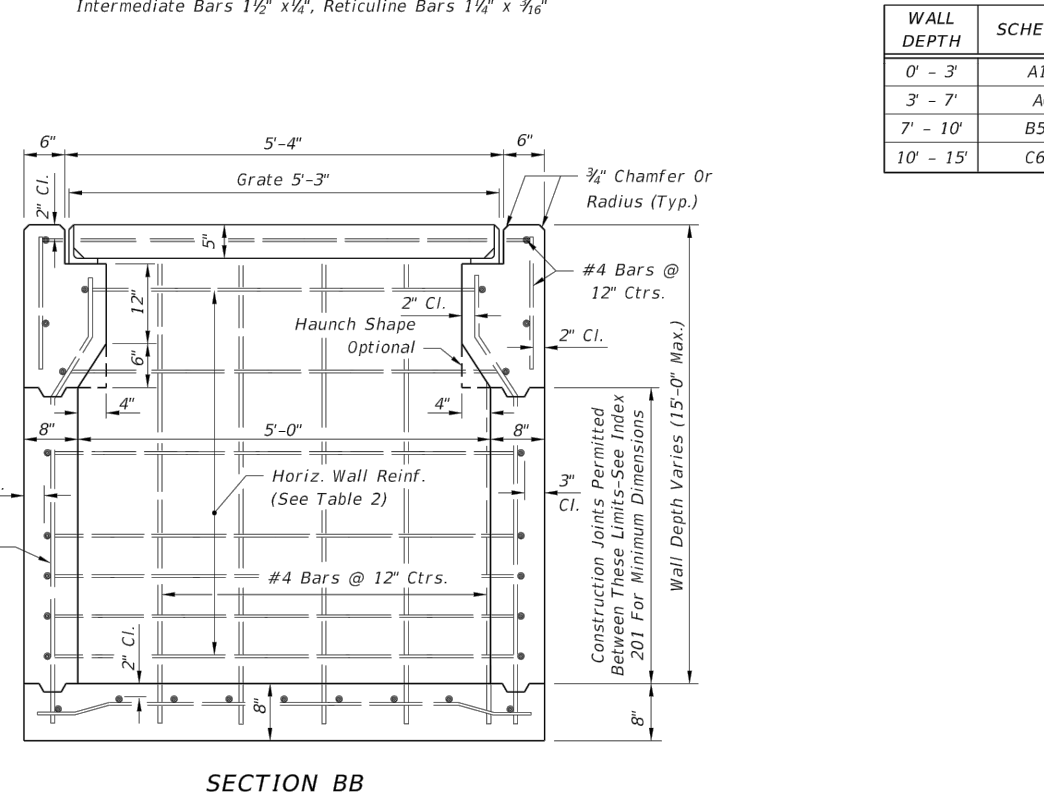
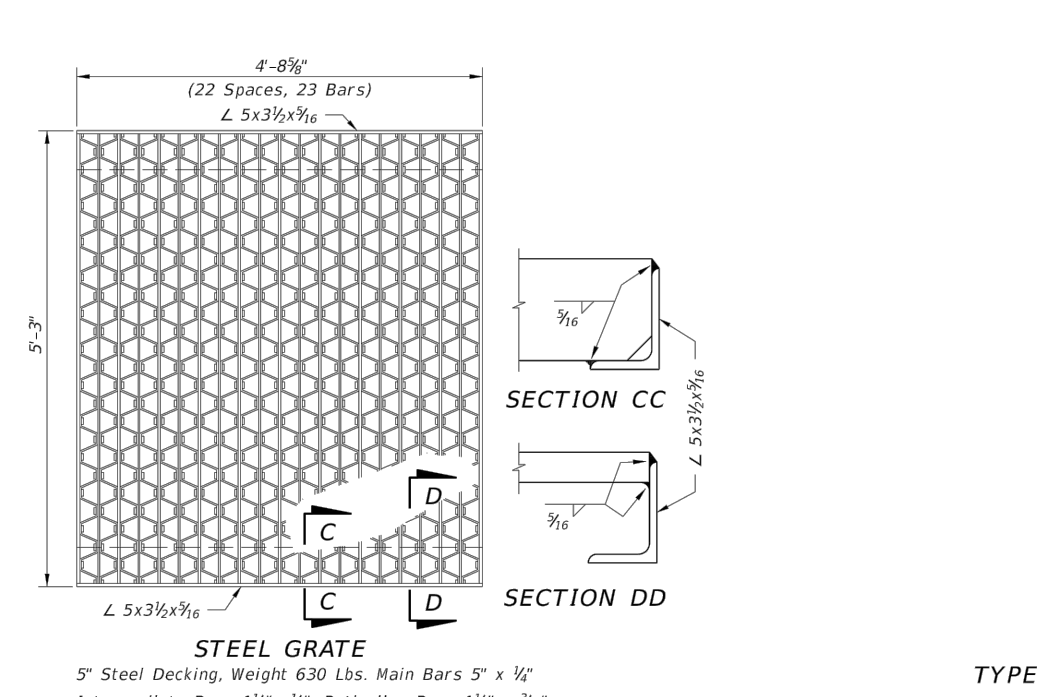
RECOMMENDED MAXIMUM PIPE SIZES

INLET INSIDE WIDTH	PIPE SIZE
2'-0" (Type F)	18"
4'-0" (Type F)	30"
4'-10" / 5'-0" (Type G)	42"

Note: Recommended sizes are for concrete pipe. Sizes for other types of pipe must be verified for fit in accordance with Index No. 201. For larger pipe sizes see Note 3.



LAST REVISION 11/01/16	DESCRIPTION:	FDOT FY 2017-18 DESIGN STANDARDS	DITCH BOTTOM INLET TYPES F AND G	INDEX NO. 233	SHEET NO. 2 of 2
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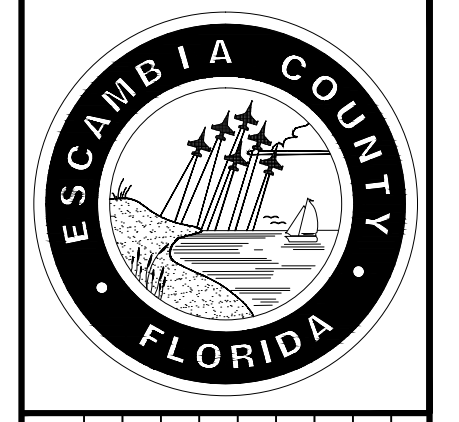
TYPE G INLET (TABLE 2)

WALL DEPTH	SCHEDULE	AREA (in ² /ft)	MAX. SPACING
0 - 3	A12	0.20	12" 8"
3 - 7	A6	0.20	6" 5"
7 - 10	B5.5	0.24	5 1/2" 5"
10 - 15	C6.5	0.37	6 1/2" 6"

LAST REVISION 11/01/16	DESCRIPTION:	FDOT FY 2017-18 DESIGN STANDARDS	U-TYPE CONCRETE ENDWALL ENERGY DISSIPATOR 30" TO 72" PIPE	INDEX NO. 264	SHEET NO. 2 of 2
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LAST REVISION 11/01/16	DESCRIPTION:	FDOT FY 2017-18 DESIGN STANDARDS	DITCH BOTTOM INLET TYPES F AND G	INDEX NO. 233	SHEET NO. 2 of 2
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DATE	REVISION	DESCRIPTION
FEBRUARY 2018	DESIGNED BY: S. WHITE	
	DRAWN BY: G. EDWARDS	
	PROJECT ENGINEER: C. RILEY	
	PROJECT MANAGER: S. WHITE	
	PROJECT MANAGER: S. WHITE	
	PROJECT NUMBER: 333166	

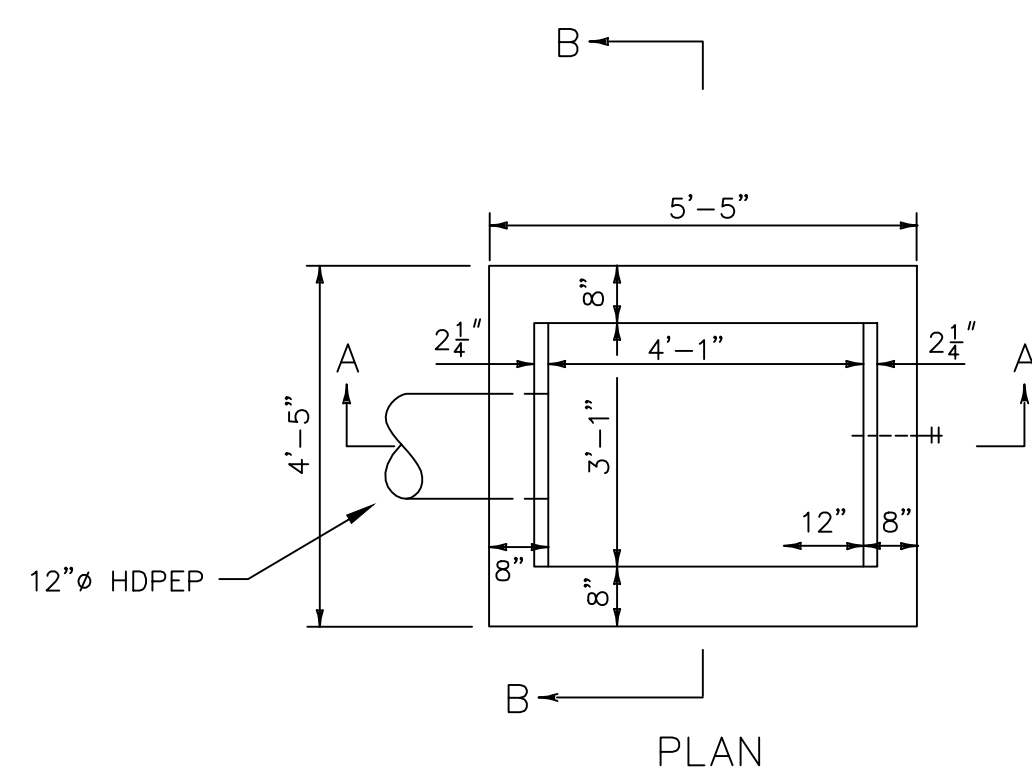
DATE	REVISION	DESCRIPTION
FEBRUARY 2018	DESIGNED BY: S. WHITE	
	DRAWN BY: G. EDWARDS	
	PROJECT ENGINEER: C. RILEY	
	PROJECT MANAGER: S. WHITE	
	PROJECT MANAGER: S. WHITE	
	PROJECT NUMBER: 333166	

100% DESIGN PLANS
SHEET TITLE: DETAILS

SHEET NUMBER: C-027

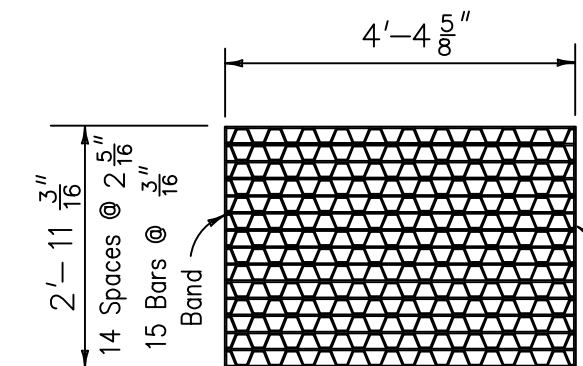
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Drawing Name: C-027 Details.dwg
Plot File Name:

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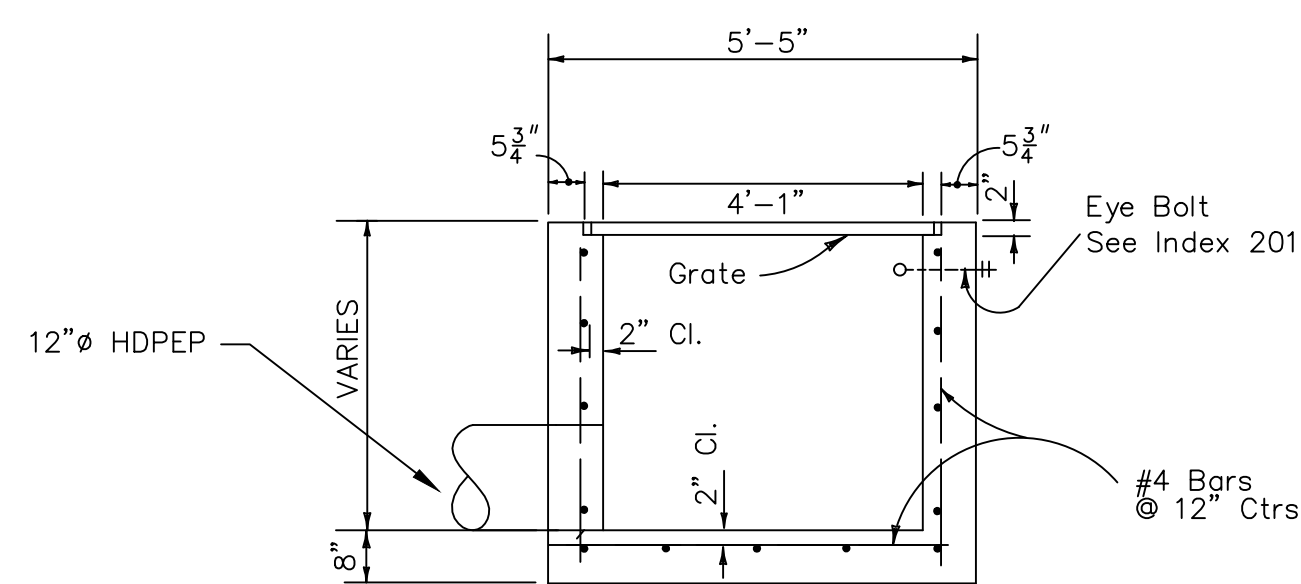
PLAN

NOTICE: Steel Grates Are Required On Inlets With Traversable Slots And On Inlets where Bicycle Traffic Is Anticipated.

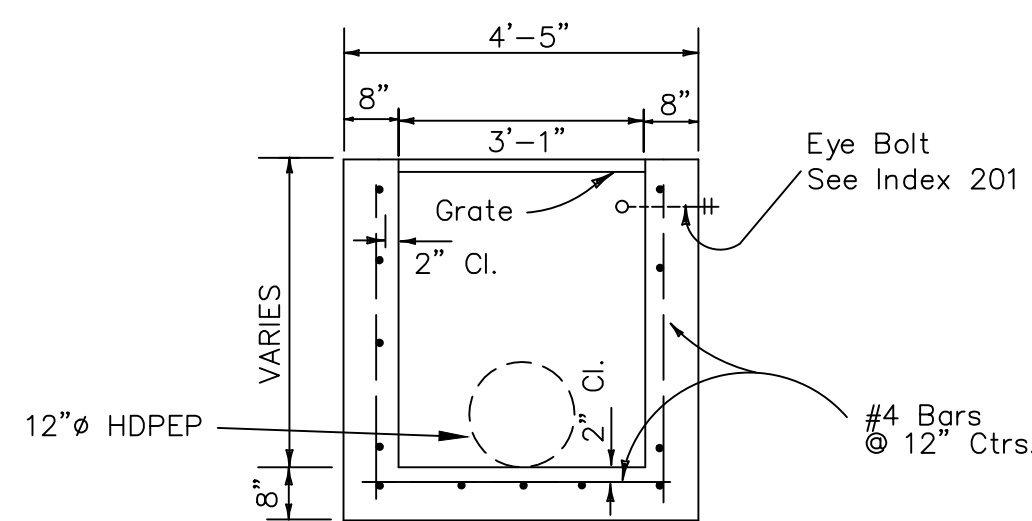


Straight Bars 2" x 3/16"
Reticuline Bars 1 1/4" x 3/16"
Bands 1 1/2" x 1/4"
Approx. Weight 180 Lbs.

STEEL GRATE



SECTION 'A-A'



SECTION 'B-B'

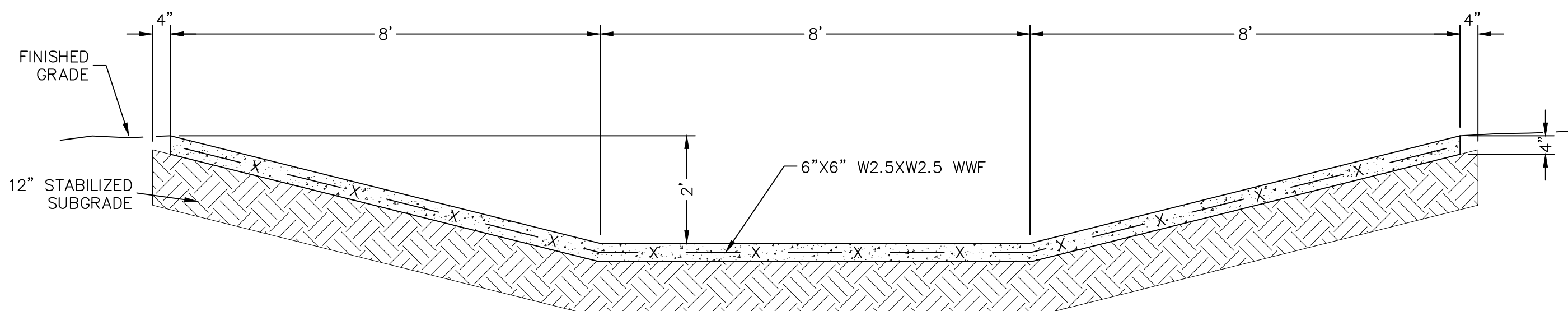
Recommended Maximum Pipe Size:
3'-1" Wall-24" Pipe
4'-1" Wall-36" Pipe

GENERAL NOTES

1. These inlets are suitable for bicycle and pedestrian areas and are to be used in ditches, medians and other areas subject to infrequent traffic loadings but are not to be placed in areas subject to any heavy wheel loads.
2. Recommended maximum pipe sizes shown are for concrete pipe. Pipe sizes larger than those recommended must be checked for fit.
3. All exposed corners and edges of concrete are to be chamfered 3/4".
4. For supplementary details see FDOT Index No. 201.

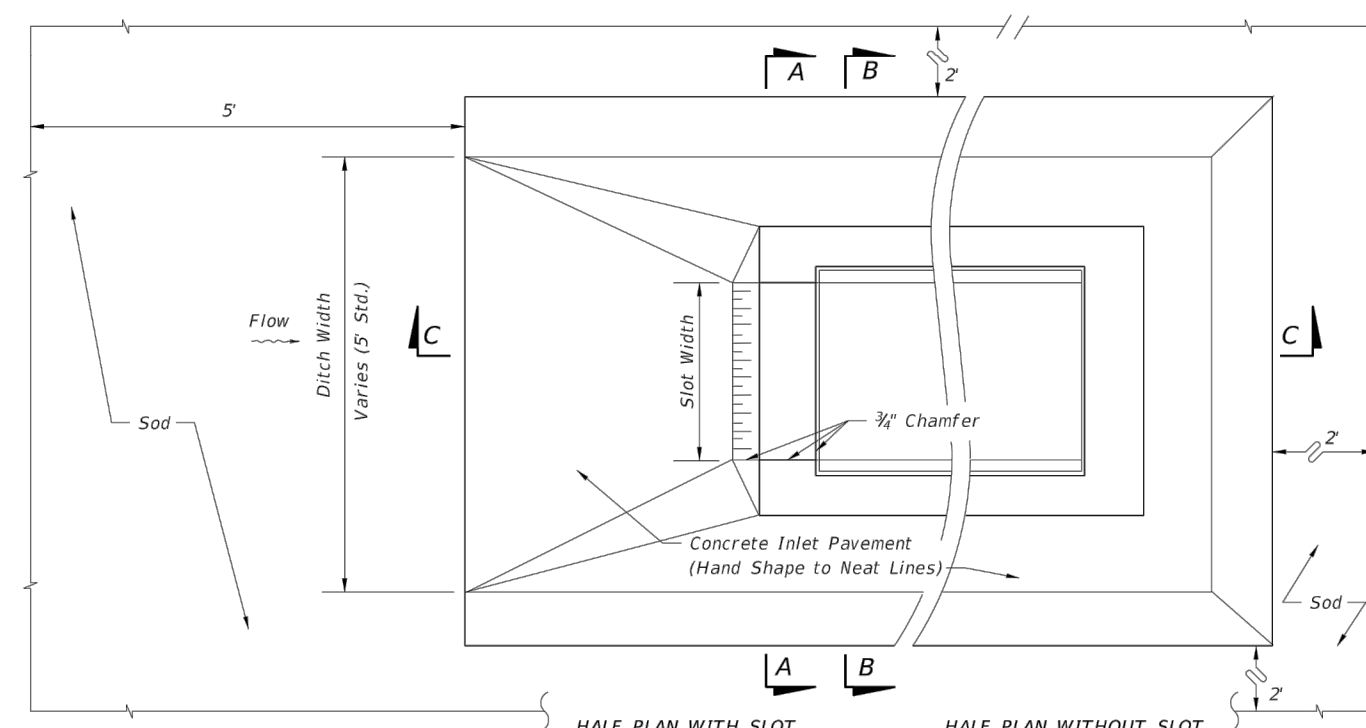
FDOT TYPE 'D' DITCH BOTTOM INLET

N.T.S.

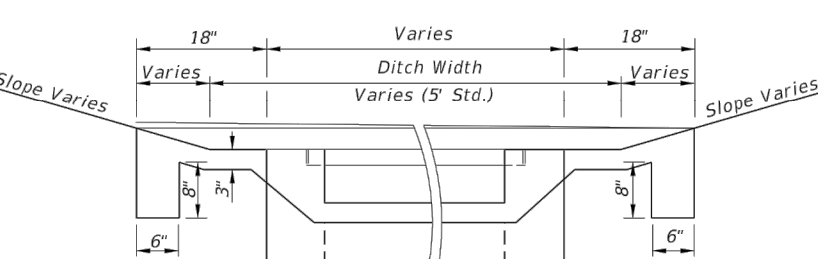


CONCRETE FLUME DETAIL

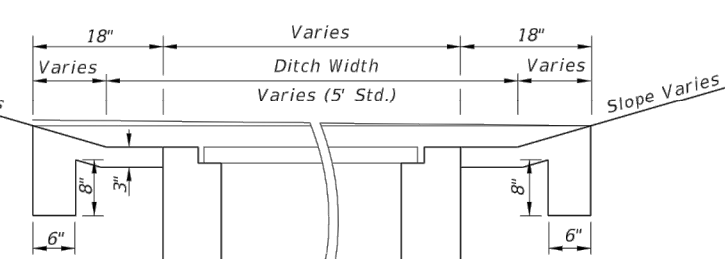
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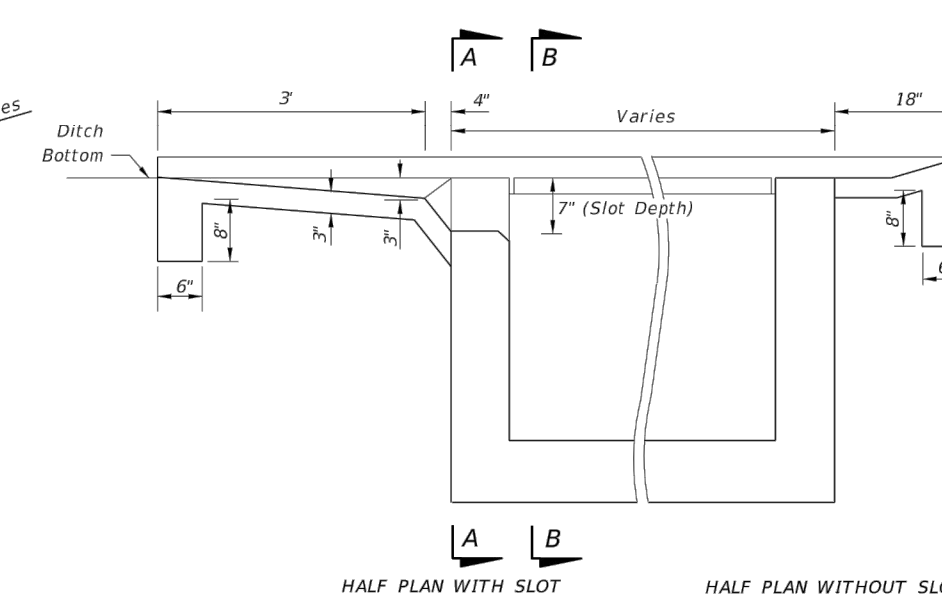
PLAN VIEW



SECTION AA



SECTION BB



SECTION CC

Inlet	Pavement				Sod	
	Single Slot	Double Slot	Single Slot	Double Slot	Single Slot	Double Slot
C	4.87	0.77	6.16	0.93	12	16
D	5.99	0.91	7.70	1.10	14	19
E	5.88	0.91	7.37	1.08	14	18

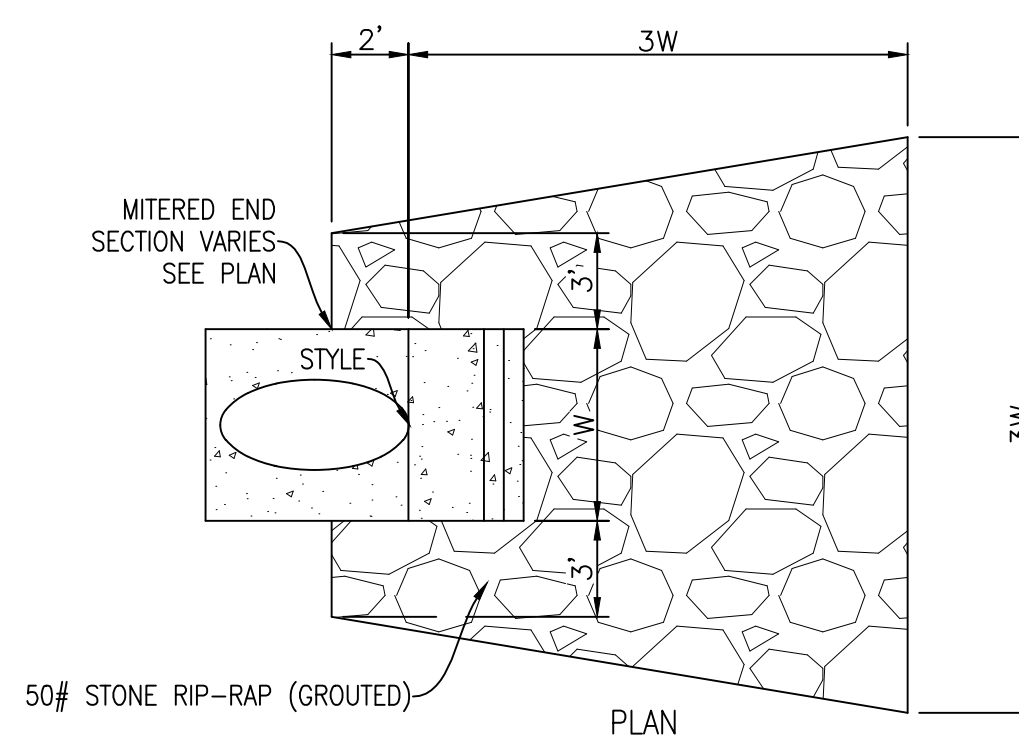
TRAVERSABLE SLOTS

LAST REVISION	DESCRIPTION
07/01/07	

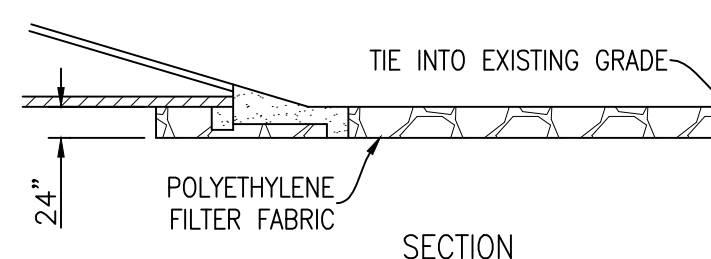
FDOT FY 2017-18 DESIGN STANDARDS

DITCH BOTTOM INLET TYPES C, D, E AND H

INDEX NO. 232 SHEET NO. 4 of 7



PLAN



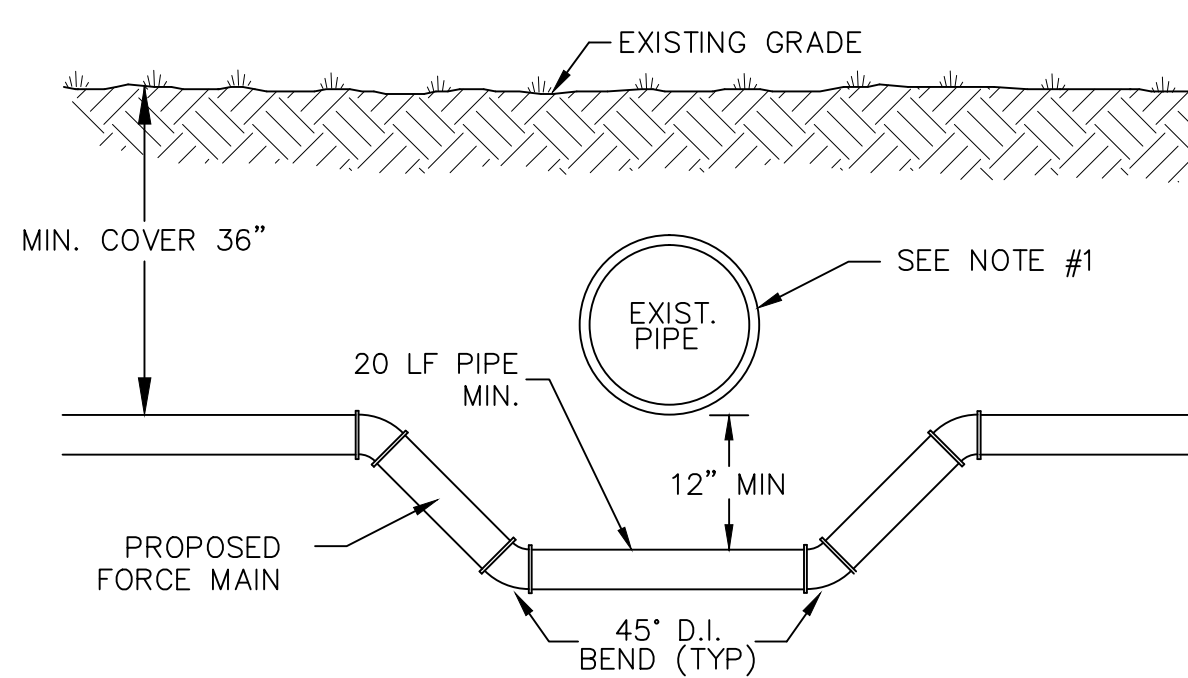
SECTION

RIP-RAP DETAIL

N.T.S.

NOTES:

1. IF EXISTING PIPE IS WATER OR SEWER MAIN, REFER TO ENCASEMENT DETAIL FOR ADDITIONAL SPECIFICATIONS.
2. ALL FITTINGS ARE TO BE D.I. RESTRAINING JOINT TYPE.

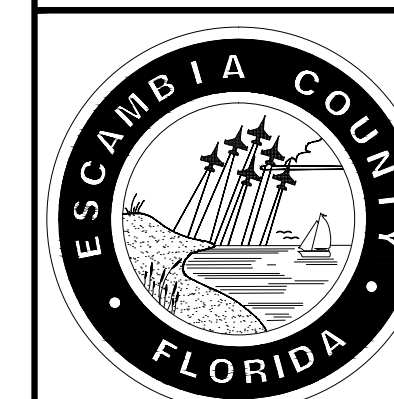


CONFLICT DETAIL

N.T.S.

NOTES:

1. CONTRACTOR SHALL BE REQUIRED TO ADJUST UTILITIES (WATER MAINS, GAS MAINS, ETC.) AS NECESSARY TO AVOID CONFLICTS.
2. ALL WATER MAIN WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ECUA ENGINEERING MANUAL.



CROCKET ST. & CRESTFIELD CIR. DRAINAGE IMPROVEMENTS
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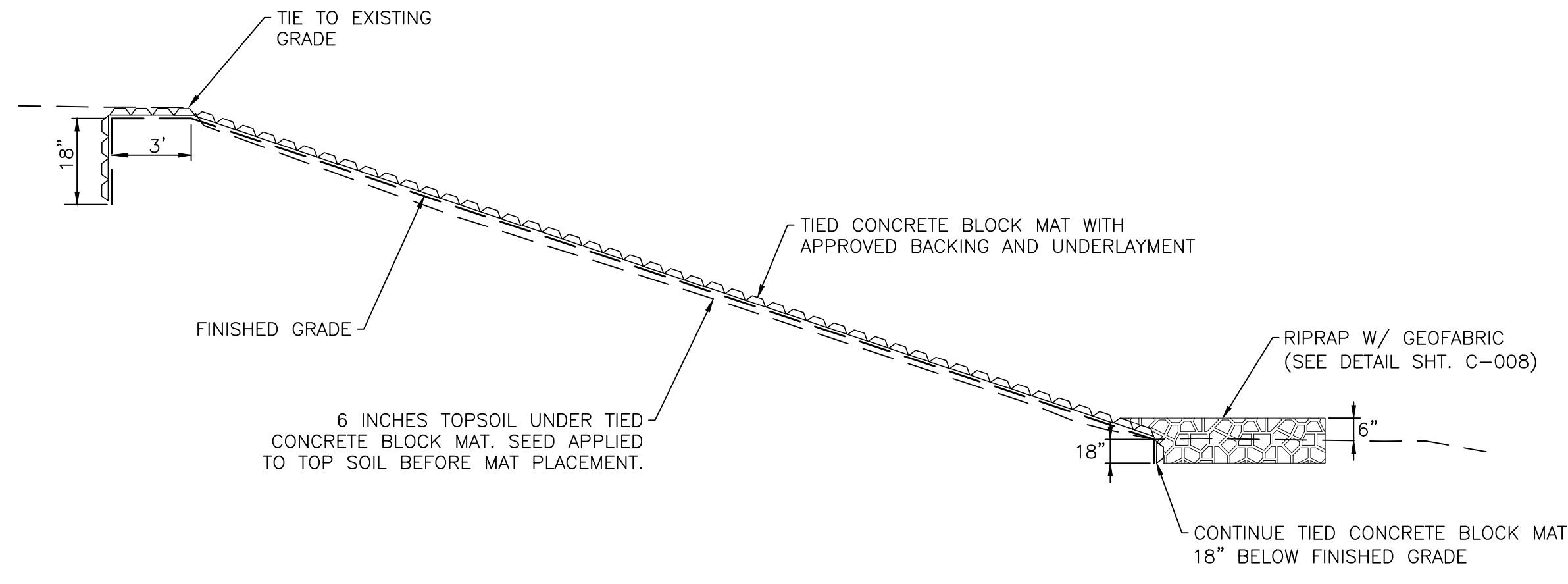
DATE	REV.	REVISION DESCRIPTION
FEBRUARY 2018		
DESIGNED BY:	S. WHITE	
DRAWN BY:	G. EDWARDS	
PROJECT ENGINEER:	C. RILEY	
PROJECT MANAGER:	S. WHITE	
M.M. PROJECT NUMBER:	S. WHITE	333166

100% DESIGN PLANS
STEVEN D. WHITE, P.E.
FLORIDA LICENSE NO. 58809
DATE _____ AFFIX SEAL

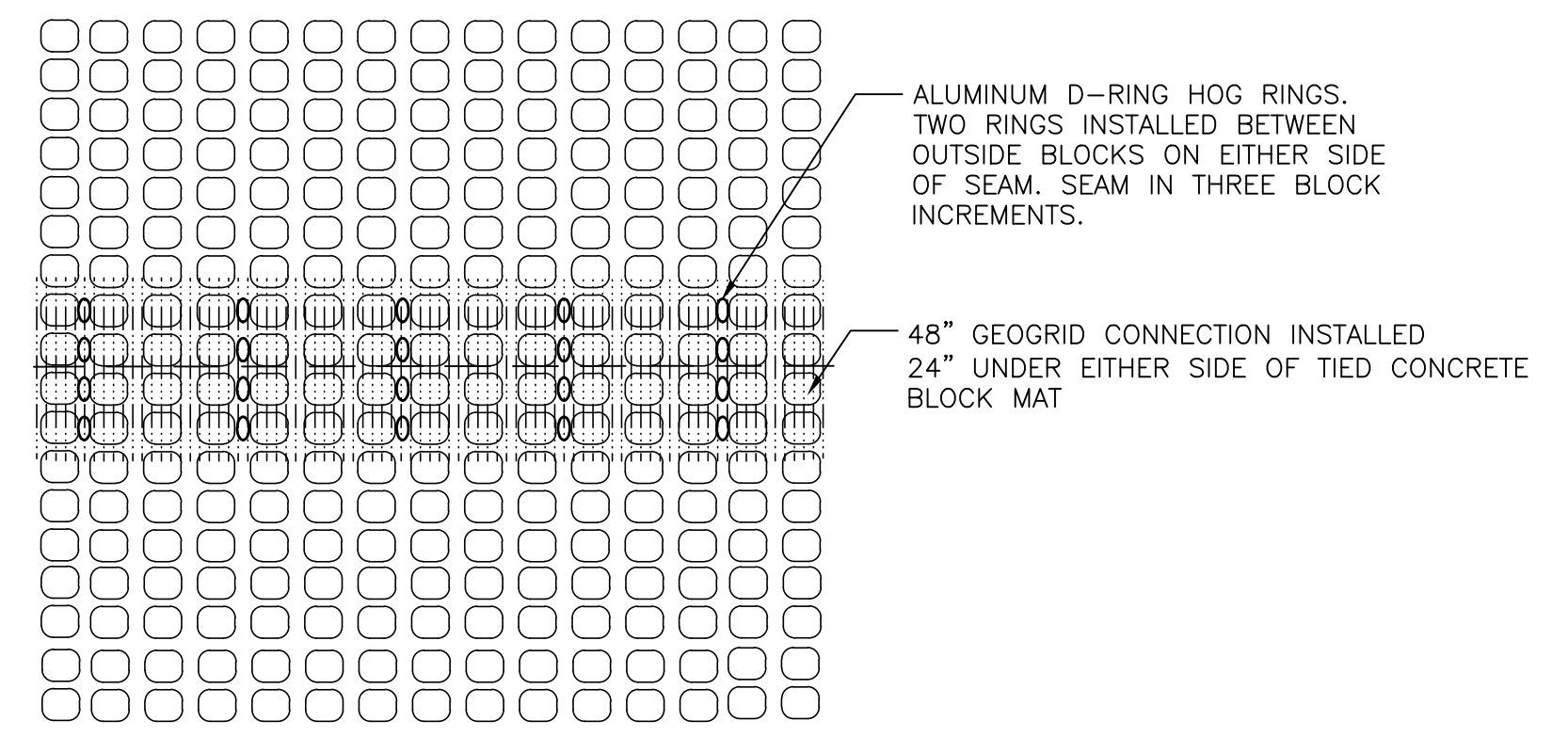
SHEET TITLE:
DETAILS

SHEET NUMBER:
C-028

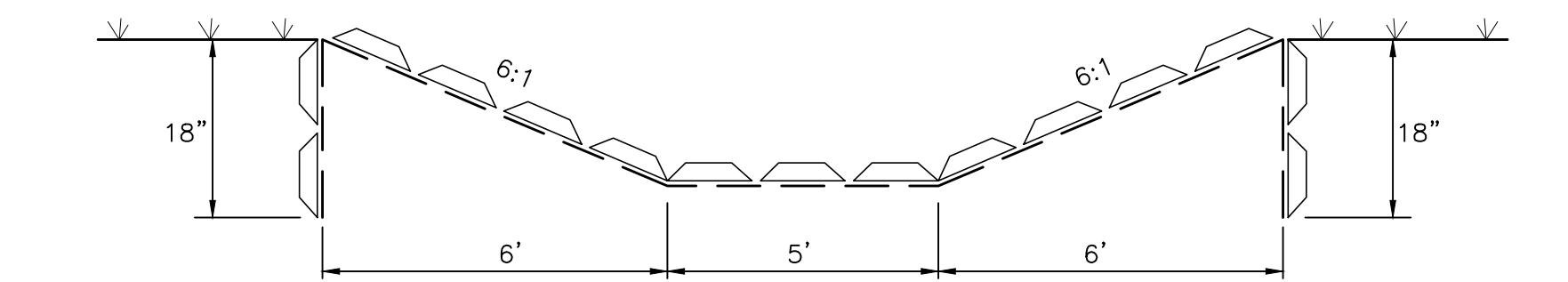
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Date: 02/12/2018 1:30:03PM



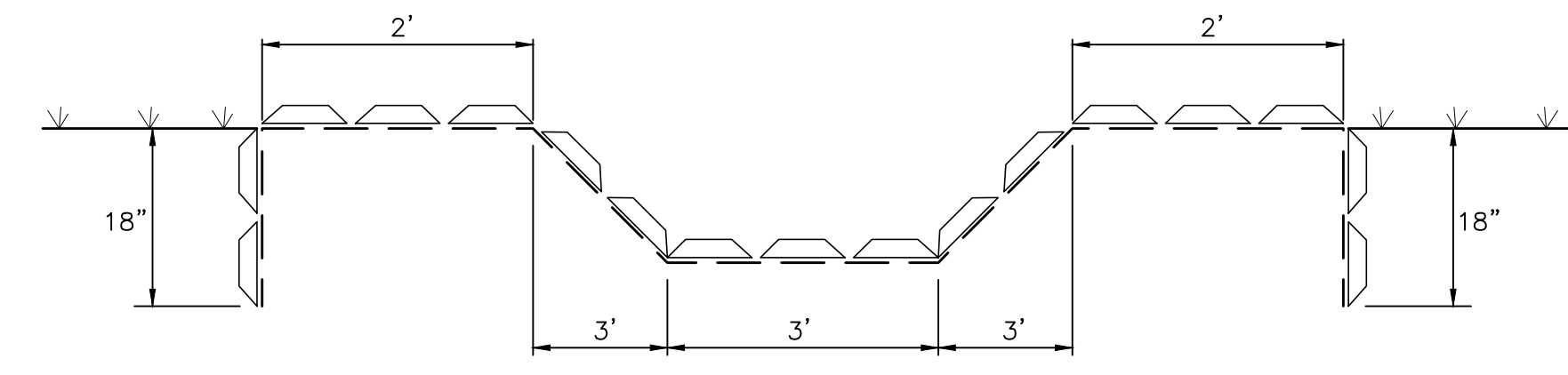
TYPICAL SLOPE SECTION
NTS



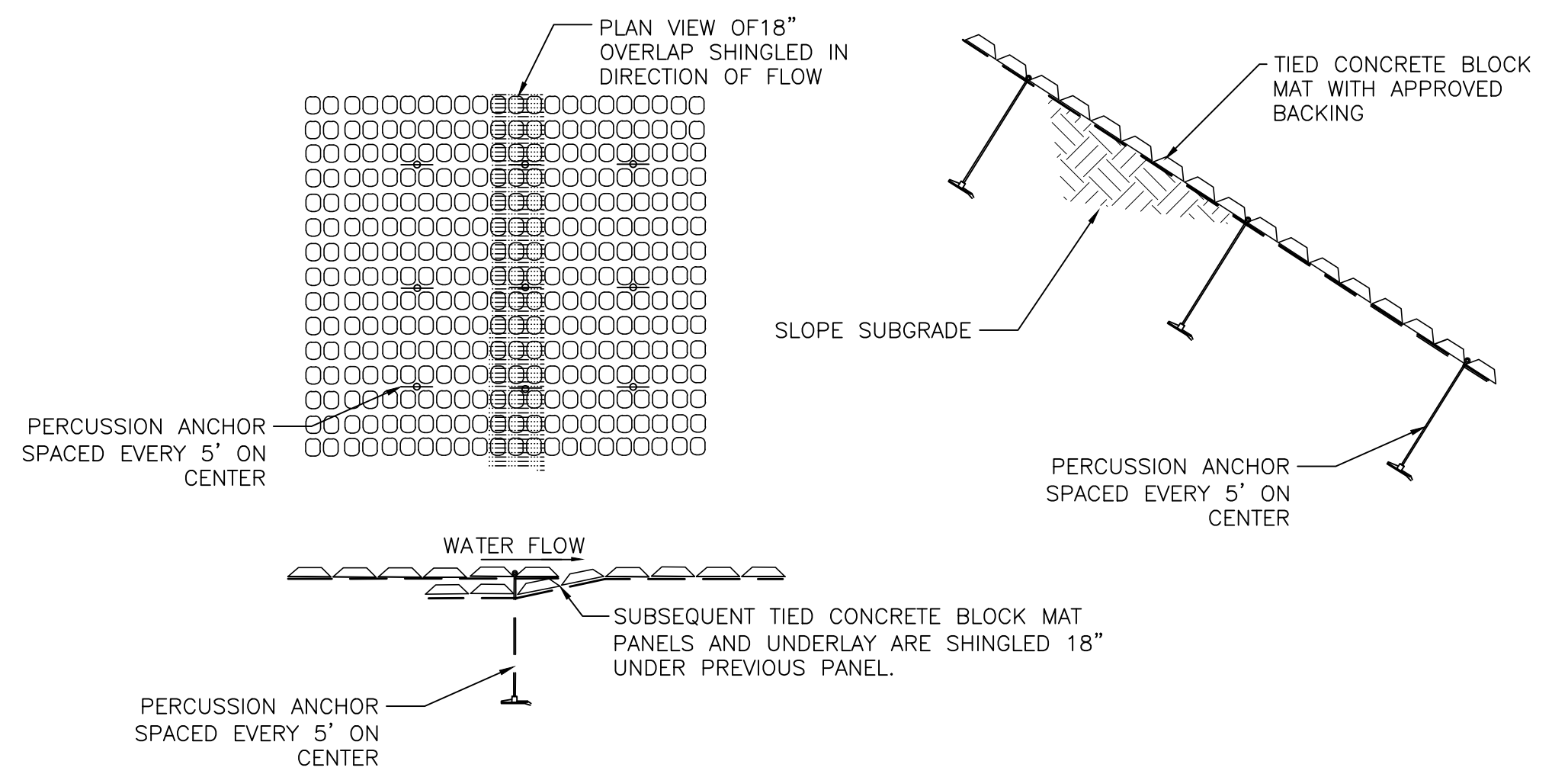
LONGITUDINAL SEAM
NTS



POND INLET SWALE DETAIL
(APPROX. STA: 19+10-19+70)
NTS



TYPICAL SWALE DETAIL
NTS



PERCUSSION ANCHORS
NTS

CONSTRUCTION NOTES:

- GRADE A UNIFORM SUBGRADE. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM UNYIELDING FOUNDATION FOR THE MATS WITH NO SHARP OR ABRUPT BREAKS IN THE GRADE.
- PLACE 6" OF TOPSOIL ON TOP OF THE SUBGRADE IN PREPARATION FOR SEEDING/SODDING.
- SEED THE AREA TO BE COVERED BY TIED CONCRETE BLOCK MAT WITH SITE SPECIFIC SEED MIX AS APPROVED BY THE ENGINEER. NATIVE GRASSES AS WELL AS OTHER LITTORALS WILL GROW WITHIN MAT.
- INSTALL TIED CONCRETE BLOCK MAT WITH APPROVED BACKING ON TOP OF PREPARED/SEEDED TOPSOIL. BACKING SHOULD CONSIST OF ONE BIODEGRADABLE EROSION CONTROL LAYER AND ONE TURF REINFORCEMENT MAT (TRM) LAYER, SUCH AS RECYCLEX® TRM OR APPROVED EQUAL.
- AT LONGITUDINAL JOINTS ABUT THE NEXT SECTION OF MAT TO THE PREVIOUS SECTION. INSTALL A 4' SECTION OF APPROVED UNDERLAY GEOGRID (24" UNDER EACH ABUTTED TIED CONCRETE BLOCK MAT PANEL). SECURE SEAM WITH D-RING HOG RINGS AS SHOWN IN THE DETAIL. IF ENCOUNTERING BENDS, A CONCRETE SAW MAY BE NECESSARY TO CUT MAT TO FIT TIGHTLY TO ADJACENT SECTION OF MAT.
- AT TRANSVERSE JOINTS SHINGLE SUBSEQUENT TIED CONCRETE BLOCK MAT PANELS AND UNDERLAY 18" UNDER UPSTREAM SECTION.
- INSTALL 3 FT PERCUSSION ANCHORS THROUGH TIED CONCRETE BLOCK MAT SPACED EVERY 5' ON CENTER. USE GRIPPLE TLA3 WITH #4 REBAR LOOPED TO CABLE OR APPROVED EQUALS FOR PERCUSSION ANCHOR SYSTEM. FOLLOW MANUFACTURER'S STANDARDS AND RECOMMENDATIONS FOR INSTALLATION OF PERCUSSION ANCHORS.

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CROCKET ST. & CRESTFIELD CIR. DRAINAGE IMPROVEMENTS
 ESCAMBIA COUNTY, FLORIDA



DATE	REV.	REVISION DESCRIPTION
FEBRUARY 2018		
DESIGNED BY: S. WHITE		
DRAWN BY: G. EDWARDS		
PROJECT ENGINEER: C. RILEY		
PROJECT MANAGER: S. WHITE		
M.M. PROJECT NUMBER: S. WHITE		
		333166

100% DESIGN PLANS
 STEVEN D. WHITE, P.E.
 FLORIDA LICENSE NO. 58809
 DATE _____ AFFIX SEAL

SHEET TITLE:
TIED CONCRETE MAT DETAILS
 SHEET NUMBER:
C-029

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GENERAL NOTES FOR SOIL EROSION AND SEDIMENT CONTROL:

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
3. PERMANENT VEGETATION TO BE SEEDING OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER GRADING. MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
4. ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, SECTIONS 104, 570, 575 AND 980 TO 986.
- *5. A BITUMINOUS CONCRETE BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE BITUMINOUS CONCRETE BASE SHALL BE INSTALLED WITHIN 15 DAYS OF THE PRELIMINARY GRADING.
- *6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A THICKNESS OF TWO (2) TO FOUR (4) INCHES MIXED WITH THE TOP TWO (2) INCHES OF SOIL, ACCORDING TO STATE STANDARDS.
- *7. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E. SLOPES GREATER THAN 3:1).
- *8. A CRUSHED LIMEROCK, VEHICLE WHEEL-CLEANING BLANKET SHALL BE INSTALLED AT THE CONTRACTOR'S STAGING YARD AND/OR STOCKPILE AREAS TO PREVENT OFF-SITE TRACKING OF SEDIMENT BY CONSTRUCTION VEHICLES ONTO PUBLIC ROADS. BLANKET SHALL BE 15FT. X 50FT. X 6IN. (MINIMUM), CRUSHED LIMEROCK 2 1/2 INCHES IN DIAMETER. SAID BLANKET SHALL BE UNDERLAIN WITH A FDOT CLASS 3 SYNTHETIC FILTER FABRIC AND MAINTAINED IN GOOD ORDER.
9. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- *10. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
11. UNFILTERED DEWATERING IS NOT PERMITTED. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER.
12. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATION COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.
13. ALL SOIL WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHTS-OF-WAY WILL BE REMOVED IMMEDIATELY.
14. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
15. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE NUMBER 2 (ABOVE).
16. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
17. ALL SEDIMENTATION STRUCTURES SHALL BE INSPECTED AND MAINTAINED REGULARLY.
18. ALL CATCH BASIN INLETS SHALL BE PROTECTED WITH HAY BALES AS SHOWN ON DETAIL.
19. THE CONTRACTOR SHALL PREPARE A PLAN FOR THE PROPER DEWATERING AND DOWNSTREAM SILTATION PROTECTION OF EACH STREAM CROSSING PRIOR TO EXCAVATING THE STREAM BED. PLAN SHALL BE FORWARDED TO THE ENGINEER FOR APPROVAL. THE ENGINEER SHALL BE NOTIFIED FOR INSPECTION PRIOR TO EACH STREAM CROSSING CONSTRUCTION.
20. ANY AREAS USED FOR THE CONTRACTOR'S STAGING, INCLUDING BUT NOT LIMITED TO, TEMPORARY STORAGE OF STOCKPILED MATERIALS (E.G. CRUSHED STONE, QUARRY PROCESS STONE, SELECT FILL, EXCAVATED MATERIALS, ETC.), SHALL BE ENTIRELY PROTECTED BY A SILT FENCE ALONG THE LOW ELEVATION SIDE TO CONTROL SEDIMENT RUNOFF.

* WHERE APPLICABLE

SODDING:

1. SOD SHALL BE WELL ROOT MATTED CENTIPEDE OR BAHIA GRASS COMMERCIALY CUT TO A MINIMUM DIMENSION OF 12" x 24" A MAXIMUM OF 72 HOURS PRIOR TO PLACEMENT. SOD SHALL BE LIVE, FRESH AND UNINJURED, REASONABLY FREE OF WEEDS AND OTHER GRASSES, WITH A HEAVY SOIL MAT ADHERING TO THE ROOT SYSTEM. SOD SHALL BE GROWN, CUT, AND SUPPLIED BY A STATE CERTIFIED GROWER.

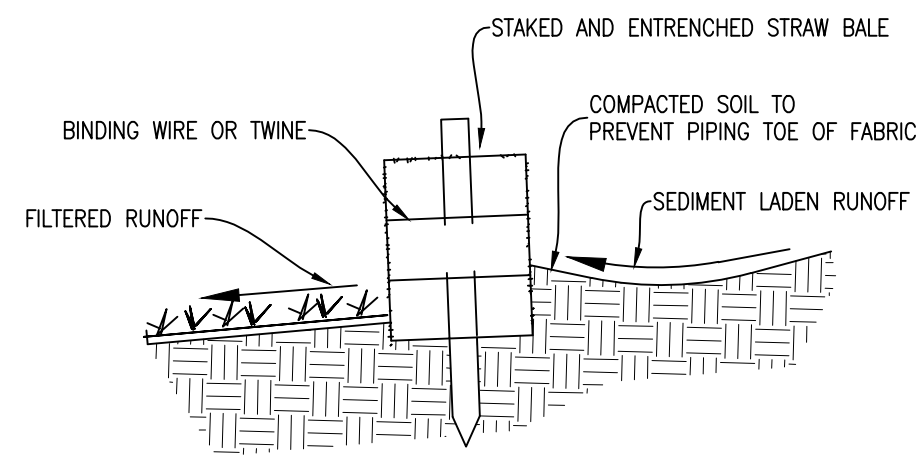
TEMPORARY SEEDING DETAILS

SEED BED PREPARATION

1. SOIL TO BE THOROUGHLY PULVERIZED BY DISK-HARROWING AND BE LOOSE AND REASONABLY SMOOTH. APPLY FERTILIZER AT A RATE OF 260 LBS/ACRE OF 16-16-16 OR EQUIVALENT, APPLY DOLOMITIC LIMESTONE AT A RATE OF 800 TO 1000 LBS./ACRE TO PROVIDE A SOIL pH OF 5.5 TO 6.5, LIME & FERTILIZER TO BE WORKED INTO THE TOPSOIL TO A DEPTH OF 4". ADD SANDY LOAM TOPSOIL TO A MINIMUM OF TWO (2) INCHES WHERE REQUIRED.

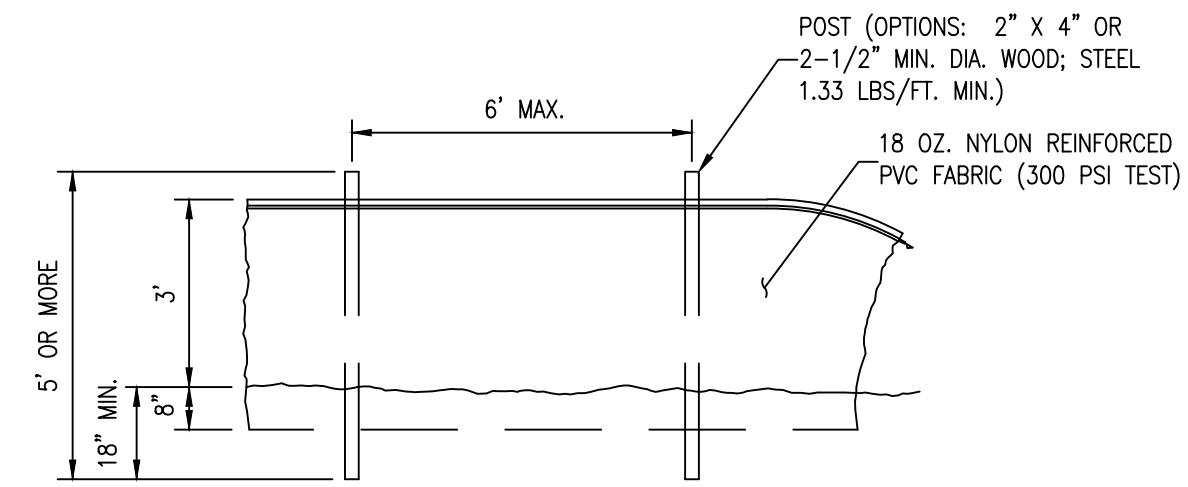
SEED MIXTURE

1. CONSISTING OF ANNUAL RYE (LOLIUM MULTIFLORUM) AT A RATE OF 174 LBS./ACRE.



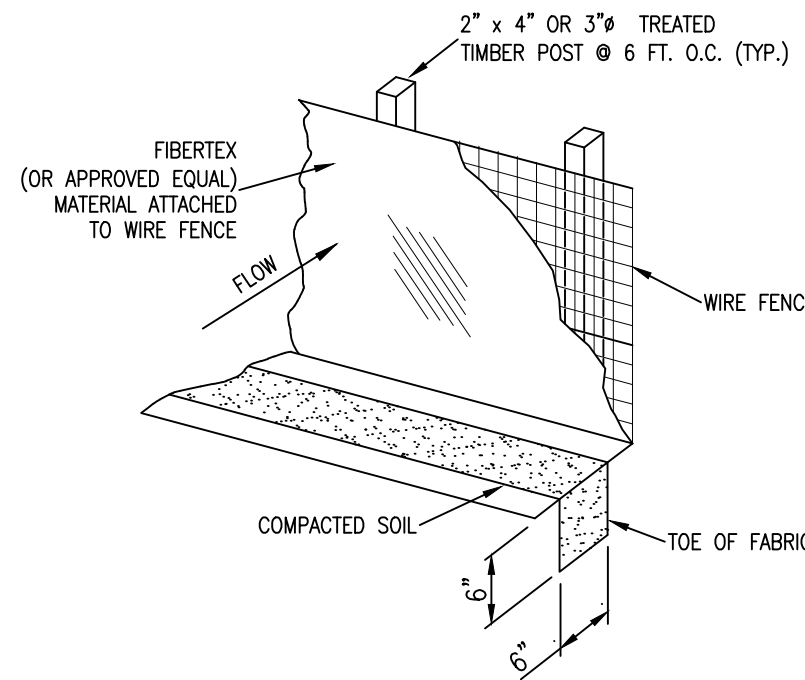
DETAIL OF PROPERLY INSTALLED STRAW BALE

N.T.S.



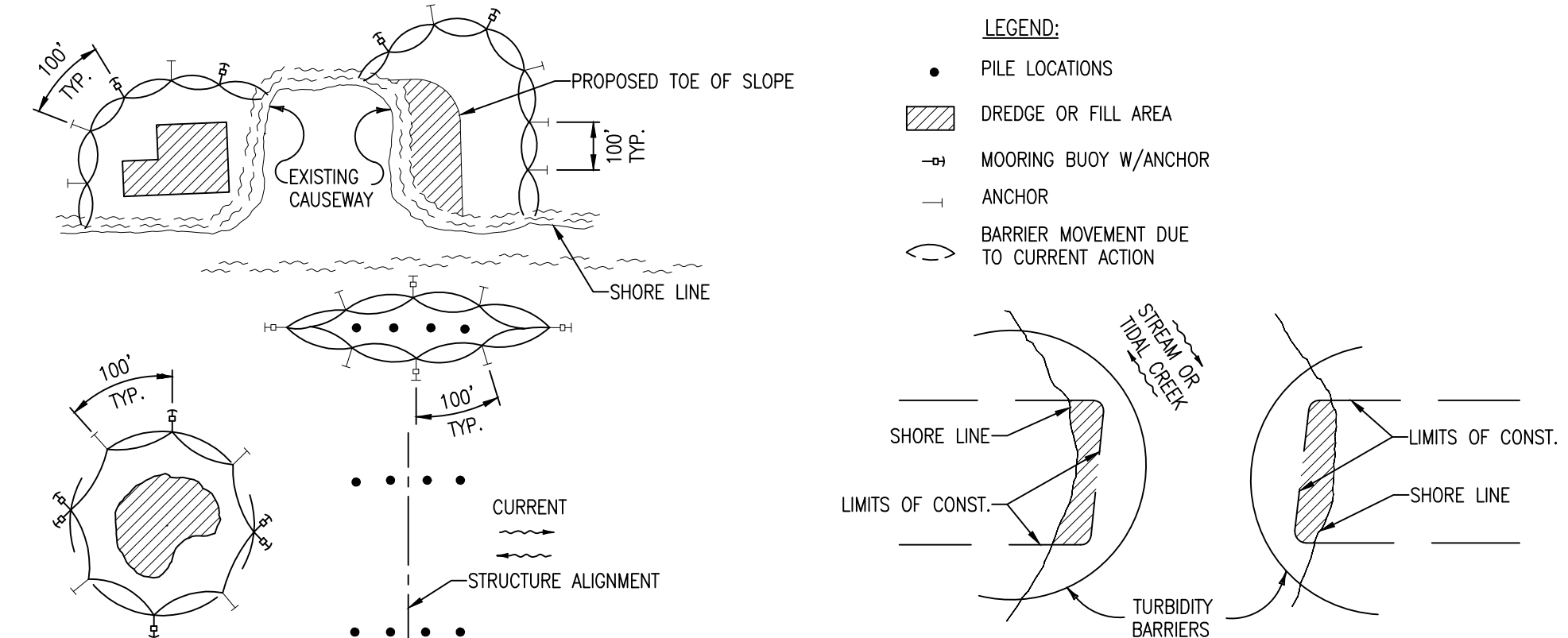
STAKED TURBIDITY BARRIER

N.T.S.



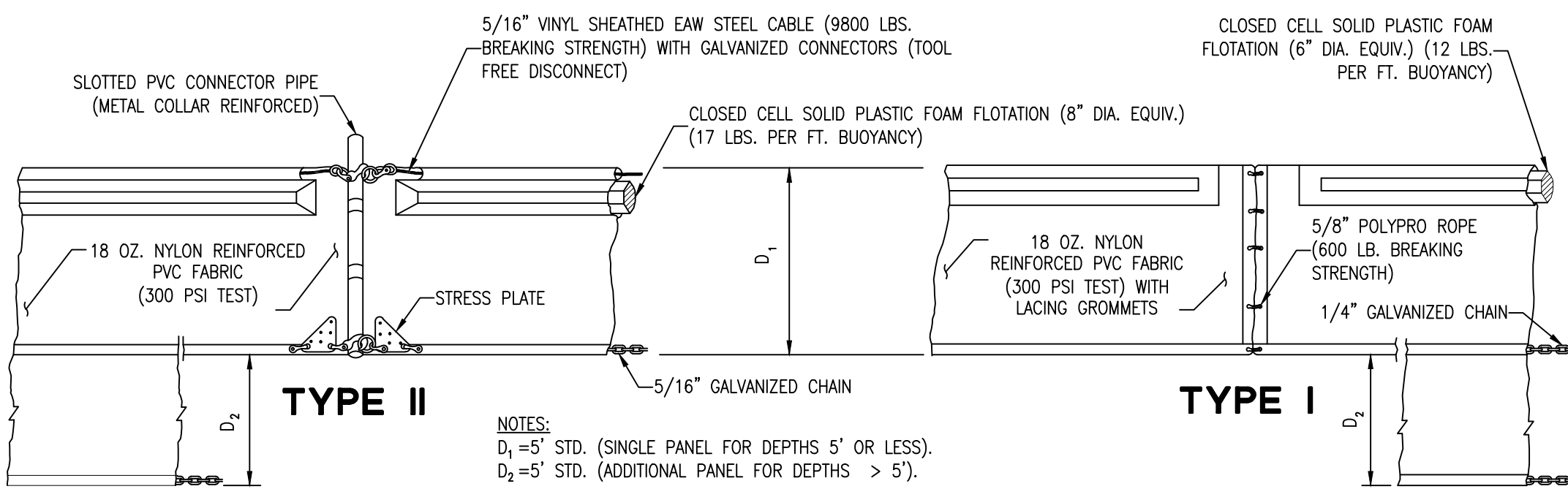
SILT FENCE DETAIL

N.T.S.



1. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
2. NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
3. DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
4. NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.
5. FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE STANDARD SPECIFICATIONS.

NOTE: TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATIONS OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPE(S) WILL BE AT THE CONTRACTORS OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS, HOWEVER PAYMENT WILL BE UNDER THE PAY ITEM(S) ESTABLISHED IN THE PLANS FOR FLOATING TURBIDITY BARRIER AND/OR STAKED TURBIDITY BARRIER. POSTS IN STAKED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



NOTES:
D₁ = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).
D₂ = 5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5').

CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS

N.T.S.

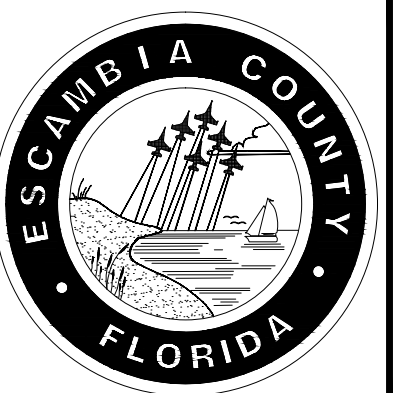
TURBIDITY BARRIER APPLICATIONS

N.T.S.

User Name: mch56797
 Plot Style: acad.ctb
 Drawing Path: P:\333166 - Crockett Street & Crestfield Circle\Drawings\Civil\CAD Drawings\Sheets\Plan Set
 Drawing Name: C-030 Erosion Control Details.dwg
 Plot File Name:

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 AA-C000035 EB-0000155 LB-0000783

CROCKET ST. & CRESTFIELD CIR. DRAINAGE IMPROVEMENTS
 ESCAMBIA COUNTY, FLORIDA



DATE	DESIGNED BY:	DATE	REV.	REVISION DESCRIPTION
FEBRUARY 2018	S. WHITE			
	G. EDWARDS			
	C. RILEY			
	S. WHITE			
	S. WHITE			
	M.M. PROJECT NUMBER:			
				333166

100% DESIGN PLANS
 STEVEN D. WHITE, P.E.
 FLORIDA LICENSE NO. 58809
 DATE _____ AFFIX SEAL

SHEET TITLE:
EROSION CONTROL DETAILS

SHEET NUMBER:
C-030