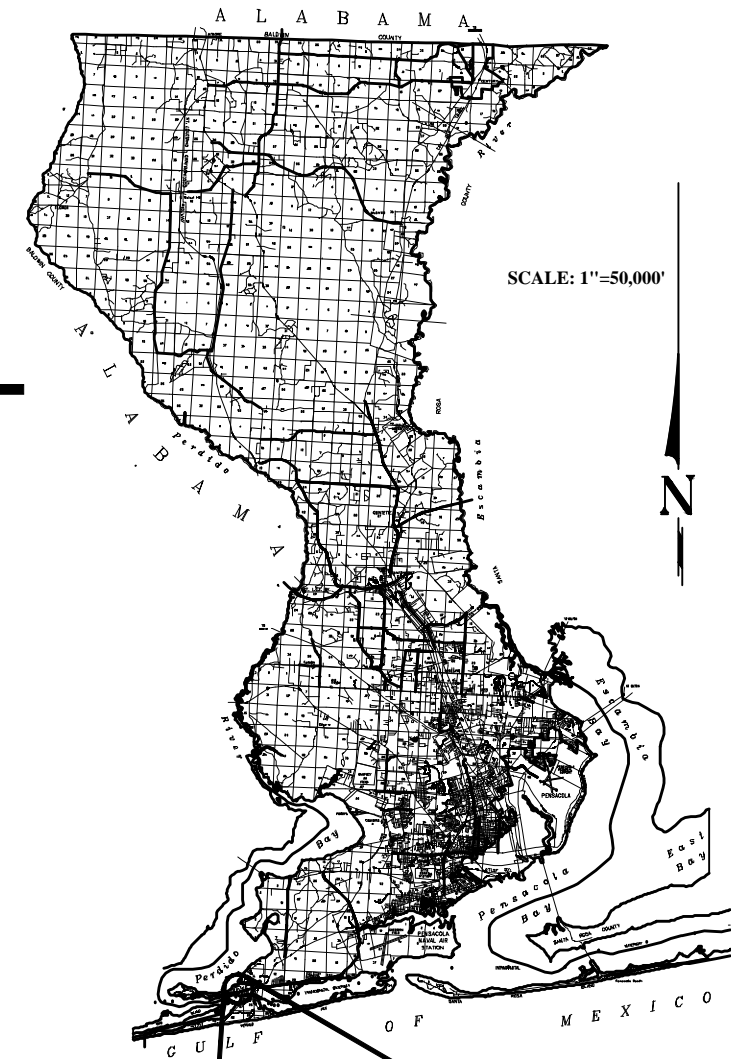


**BOARD OF COUNTY COMMISSIONERS  
 ESCAMBIA COUNTY, FLORIDA  
 PUBLIC WORKS BUREAU  
 ENGINEERING DIVISION**



**PLANS PROPOSED FOR  
 INNERARITY POINT ROAD AREA  
 DRAINAGE IMPROVEMENTS  
 SECTION B: GORHAM ROAD**

**INDEX OF PLANS**

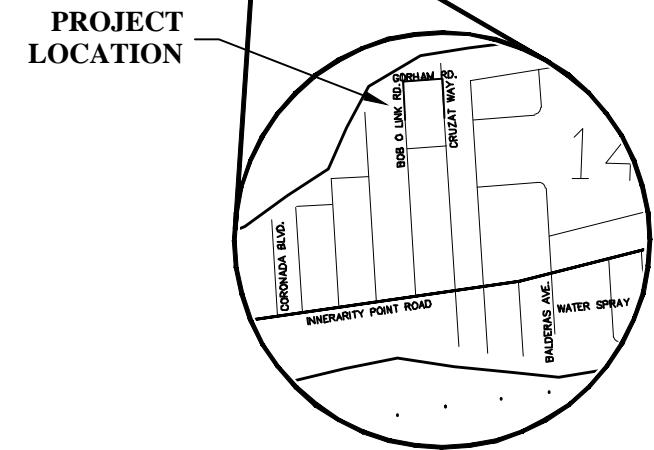
SHEET NO.	SHEET DESCRIPTION
C1	KEY SHEET
C2	GENERAL NOTES
C3	SUMMARY OF PAY ITEMS & QUANTITIES
C4	DRAINAGE MAP
C5	PROJECT LAYOUT
C6	DEMOLITION PLAN
C7-C8	BOB O LINK ROADWAY PROFILE
C9	GORHAM ROADWAY PROFILE
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**BID DOCUMENTS**

8/3/2018



HAMMOND ENGINEERING, INC.  
 FLORIDA AUTHORIZATION NO. 9130  
 ALABAMA AUTHORIZATION NO. 3277  
 3802 NORTH 15<sup>TH</sup> STREET  
 PENSACOLA, FLORIDA 32505  
 850 434-2603  
 FAX 850-434-2650  
 TOM@SELANDDESIGN.COM



**VICINITY MAP**

**PROJECT NUMBER: ENGR 1840**

**TASK ORDER: 02-03.79.46.14 ENG**

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 REFERRED HEREIN OR OTHERWISE LISTED IN THESE PLANS OR RELATED DOCUMENTS OR THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS.

**COMMISSIONERS**

- |                       |                                 |
|-----------------------|---------------------------------|
| <b>DISTRICT ONE</b>   | <b>JEFF BERGOSH, CHAIRMAN</b>   |
| <b>DISTRICT TWO</b>   | <b>DOUG UNDERHILL</b>           |
| <b>DISTRICT THREE</b> | <b>LUMON MAY, VICE CHAIRMAN</b> |
| <b>DISTRICT FOUR</b>  | <b>GROVER ROBINSON IV</b>       |
| <b>DISTRICT FIVE</b>  | <b>STEVEN BARRY</b>             |

NUMBER	REVISION	DATE
1.	REVISED SWALE ON BOB O LINK	10/7/16
2.	AS PER ESCAMBIA COUNTY 60% COMMENTS	1/4/17
3.	AS PER ESCAMBIA COUNTY 90% COMMENTS	2/14/17
4.	INCORPORATED LIVING SHORELINE AND GAB ADDITIONS	6/14/18
5.	AS PER ESCAMBIA COUNTY 90% COMMENTS	6/20/18

<b>PROJECT MANAGER:</b> T. Berry	
<b>SECTION / TOWNSHIP / RANGE:</b> 14 / 3S / 32W & 15/3S/32W	<b>DISTRICT:</b> 2
<b>PROJECT ENGINEER:</b> T. HAMMOND	<b>REG FLA ENG NO:</b> 54574
<b>SIGNATURE:</b>	<b>DATE:</b>

# GENERAL NOTES:

- THE CONTRACTORS SHALL NOTIFY THE COUNTY DESIGN ENGINEER OR DESIGNEE 48 HOURS PRIOR TO CONSTRUCTION.
- ALL CONDITIONS AND STIPULATIONS OF THE CONSTRUCTION PERMITS AND THE APPROVALS ISSUED BY THE ESCAMBIA COUNTY ENGINEER SHALL BE COMPLIED WITH IN EVERY DETAIL.
- ALL ROADS DAMAGED BY CONSTRUCTION OPERATIONS ARE TO BE PATCHED OR RECONSTRUCTED AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.
- 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.
- ANY NECESSARY PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ESCAMBIA COUNTY OR ITS DESIGNEE WILL ASSIST CONTRACTOR WITH REQUIRED PERMITS.
- THE CONTRACTOR IS CAUTIONED TO VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE PROJECT PRIOR TO BIDDING AND/OR CONSTRUCTION.
- 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 REPLACEMENT 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.
- EXISTING DRAINAGE FEATURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL MATCH EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AS DIRECTED BY THE COUNTY ENGINEER OR DESIGNEE.
- EXISTING STREETS AND DRIVES SHALL BE MAINTAINED TO LOCAL TRAFFIC AND PROPERTY OWNERS.
- ALL ROADWAY CONSTRUCTION SHALL COMPLY WITH THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.
- ALL MATERIALS, TESTING AND CONSTRUCTION METHODS SHALL CONFORM TO THE ESCAMBIA COUNTY TECHNICAL SPECIFICATIONS, LATEST EDITION.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL COMPLY WITH ALL F.D.E.P. AND ARMY CORP. OF ENGINEERS REQUIREMENTS.
- 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.
- IN THE EVENT THAT SURVEY MONUMENTATION OR REFERENCE POINTS ARE MISSING OR HAVE BEEN DESTROYED, PLEASE CONTACT:  
  

JOSEPH E. BARRETT, PLS ESCAMBIA COUNTY SURVEYOR 3363 WEST PARK PLACE PENSACOLA, FLORIDA 32505 PH (850) 595-3427	ANDREW STARKEY, P.L.S MERRILL PARKER SHAW, INC 4928 N. DAVIS HWY PENSACOLA, FL 32503 PH (850) 478-4923
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- 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.
- GRADED AGGREGATE BASE SHALL BE REQUIRED WHERE THE SEASONAL HIGH GROUND WATER ENCROACHES WITHIN TWO (2) FEET OF THE BOTTOM OF BASE.
- ALL TREES WITHIN LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE NOTED IN PLANS.
- ALL COMPACTED FILL SHALL BE PLACED IN 4" LIFTS FOR HAND POWERED TAMPERS AND 8" LIFTS FOR HEAVY EQUIPMENT OPERATED TAMPERS.
- MAINTENANCE OF TRAFFIC AS PER FDOT INDEX 600.
- 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.
- 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 RE-INSTALL EXISTING BRICK MAILBOX WHENEVER POSSIBLE.
- 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.
- 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.
- 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.

- 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.
- 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:

- 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.
- 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. BRANDON KNIGHT, P.E P.O. BOX 15311 PENSACOLA, FL. 32514 PH: (850) 969-3310 BKNIGHT@ECUA.ORG	ELECTRIC – GULF POWER MR. CHAD SWAILS 5120 DOGWOOD DRIVE MILTON, FL. 32570 PH: (850) 429-2446 CESWAILS@SOUTHERNCO.COM
NATURAL GAS – PENSACOLA ENERGY MS. DIANE MOORE 1625 ATWOOD DRIVE PENSACOLA, FL. 32514 PH: (850) 474-5319 DMMOORE@CITYOFFPENSACOLA.COM	CABLE – COX CABLE MR. TROY YOUNG 3405 MCLEMORE DRIVE PENSACOLA, FL. 32514 PH: (850) 857-4510 TROY.YOUNG@COX.COM
TELEPHONE – AT&T FLORIDA MR. DON HIERHOLZER 6915 PINE FOREST ROAD PENSACOLA, FL. 32526 PH: (850) 436-1215 DH0762@ATT.COM	SUNSHINE STATE ONE-CALL 7200 LAKE ELLENOR DRIVE, SUITE 200 ORLANDO, FL. 32809 PH: (800) 432-4770
- AT&T FLORIDA WILL COMPLETE ALL WORK DURING THE HOURS OF 7:30 AM – 4:30 PM, MONDAY THRU FRIDAY. NO NIGHT OR WEEKEND WORK.
- 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.
- ALL LOOP DETECTOR INSTALLATION SHALL BE DONE AS PER FDOT INDEX 17781.
- CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.
- 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.

**LEGEND:**

	- POWER POLE
	- GUY WIRE
	- TELEPHONE PEDESTAL
	- ELECTRIC METER
	- WATER VALVE
	- WATER METER
	- FIRE HYDRANT
	- SPRINKLER HEAD
	- MAILBOX
	- BRICK MAILBOX
	- SIGN
	- SANITARY SEWER MANHOLE
	- UNDERGROUND UTILITY MARK-OUT BY OTHERS
	- SHRUBS OR LANDSCAPING
	F.F.E. - FINISH FLOOR ELEVATION
	TBM - TEMPORARY BENCHMARK
	R/W - RIGHT-OF-WAY
	O.R. BOOK - OFFICIAL RECORD BOOK
	I.D.# - IDENTIFICATION NUMBER
	P.V.C. - POLYVINYL CHLORIDE
	C.L.F. - CHAIN LINK FENCE
	W.P.F. - WOOD PRIVACY FENCE
	MEG - MATCH EXISTING GRADE
	- ASPHALT PAVING
	- NEW ASPHALT
	- PROPOSED SPOT ELEVATION
	- EXISTING SPOT ELEVATION

DATE	VERIFICATION, CHECKER (DR)	(Blue Highlighter)
DATE	REMARK INCORPORATION	(Blue Highlighter)
DATE	ORIGINATOR VERIFICATION	Correct (Pink Highlighter)
DATE	ORIGINATOR (GR)	Correct (Green Highlighter) Change (Red Pen)
DATE	CHECKER (RP)	(Read Pen X-Out to Disagree or Remark)
DATE	CHANGE INCORPORATION	(Yellow Highlighter)
DATE	ORIGINATOR (RP)	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)
DATE	REVIEW	
DATE	SIGNATURE:	

# INNERARY POINT ROAD AREA DRAINAGE IMPROVEMENTS SECTION B: GORHAM RD.



**HAMMOND ENGINEERING, INC.**  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH 'S' STREET  
PENSACOLA, FL 32505  
PHONE: (850) 434-2603 FAX: (850) 434-2650

DESIGNED BY: T. HAMMOND  
CHECKED BY: T. HAMMOND  
DRAWN BY: T. BERRY  
DATE: AUGUST 2018

REG. P.A. ENG. NO. 54574  
DISTRICT: TWO

REVISIONS	APPROVED BY:
REVISED SHEET ON JOB O LINK	T. BERRY
AS PER ESCAMBIA COUNTY 606 COMMENTS	10/7/16
AS PER ESCAMBIA COUNTY 606 COMMENTS	1/4/17
AS PER ESCAMBIA COUNTY 606 COMMENTS	2/14/17
INCORPORATED USING SHORLENE AND CHA ADDITIONS	6/14/18
AS PER ESCAMBIA COUNTY 606 COMMENTS	6/29/18
AS PER ESCAMBIA COUNTY 1006 COMMENTS	7/13/18
PROJECT NUMBER	13-020
SURVEY NUMBER	
SHEET	C2 of C22

SUMMARY OF PAY ITEMS (BASE BID)

Number	Sub-Category	Quantity	Units
1	Mobilization, 16 - 30 Miles	1	EA
2	Clearing and Grubbing	1	LS
3	Remove and Replace Brick or Stucco Mailbox	1	EA
4	Replace Standard Mailbox with approved Heavy Duty Plastic Mailbox w/ Rear Door and Post.	7	EA
5	Earthwork Excavate, Haul, and Install, On-site	1050	CY
6	Earthwork Establishing Grade, County Specs 2300	3000	SY
7	Remove and Replace Unsuitable Materials	1000	CY
8	Dewatering, Well Point	1	LS
9	1 1/2" County Spec 2500 Type SP 12.5 Asphalt, over 1500sy	3548	SY
10	Mill Existing Asphalt, 1.5" - 3" Thickness, over 1500sy	3354	SY
11	Lateral pavement patch as per County Detail (Full depth Asphalt)	58	SY
12	Saw cut Existing Asphalt	375	LF
13	12" Stabilized Subgrade, County Spec 2300, over 1000sy	3346	SY
14	6" Graded aggregate Base "Mn. LBR 100 at 100% Modified Proctor", County Spec 2400, over 1000sy	3346	SY
15	6" Pipe Bollards, Per County Detail	4	EA
16	Relocate Traffic Signs	7	EA
17	Develop and provide an MOT traffic safety plan both map type and written type by a Certified Work Zone Safety Traffic Supervisor	1	EA
18	1' Ribbon Curb, Per County Detail	20	LF
19	County Type B Curb, Per County Detail	340	LF
20	4" Fiber Reinforced Concrete Driveway, over 50sy	298	SY
21	Fiber Reinforced Concrete Flume	2	SY
22	Tied Concrete Block Material, Per County Spec 3310, Includes Over and Under Seeding	145	SY
23	Saw cut Existing Concrete, up to 6" thick	75	LF
24	Remove Existing Concrete, up to 6" thick	100	SY
25	Misc. Concrete	6	CY
26	Install # 4 Rebar (0.500")	20	LF
27	Ditch Bottom Inlet Top with Double Traversable Slot, Type C	1	EA
28	Ditch Bottom Inlet Top with Double Traversable Slot, Type D	1	EA
29	Type A Curb Inlet, 0-6' depth	1	EA
30	14" X 23" ERCP Pipe, 0-6' depth	412	LF
31	14" X 23" ERCP Side Drain MES, FDOT Index 273, 280	10	EA
32	Class I Concrete for Endwalls (steel included)	2	CY
33	Centipede Sod, Staked	2475	SY
34	18" Depth Rip Rap Rubble w/ 4" Bedding Stone and Geotextile	8	SY
35	Silt Fence Type IV	120	LF
36	Floating Turbidity Barrier	155	LF
37	Wood Split Rail Fence	282	LF
38	Pensacola Bahia, seeding (75 lb per acre)	6	LB

SUMMARY OF PAY ITEMS (LIVING SHORELINE-ALT BID 1)

Number	Sub-Category	Quantity	Units
1	Living Shoreline Sand	170	CY
2	Earthwork Establishing Grade, County Specs 2300	3054	SY
3	Remove and Replace Unsuitable Materials	500	CY
4	Class II Limestone Boulders	102	TON
5	Wetland Vegetation-Spartina Alterniflora	1178	EA
6	Wetland Vegetation-Spartina Patens	295	EA

SUMMARY OF PAY ITEMS (MILL & RESURFACE TO INNERARITY-ALT BID 2)

Number	Sub-Category	Quantity	Units
1	1 1/2" County Spec 2500 Type SP 12.5 Asphalt, over 1500sy	5490	SY
2	Mill Existing Asphalt, 0"-1.5" Thickness, over 1500sy	5490	SY

SUMMARY OF QUANTITIES

SUMMARY OF CROSSDRAINS / SIDEDRAINS											
STATION	SIDE	BACK		AHEAD		PIPE SIZE (IN)	LENGTH (LF)	MES (EA)			
		OFFSET	FLOWLINE	OFFSET	FLOWLINE						
10+13.98 BOB O LINK	RT	10+52.86				14X23	38	2			
11+25.88 BOB O LINK	RT	11+84.24				14X23	38	2			
12+07.80 BOB O LINK	RT	12+45.88				14X23	38	2			
13+75.05 BOB O LINK	RT	14+13.43				14X23	38	2			
14+35.88 BOB O LINK	RT	15+45.87				14X23	110	2			
15+87.80 BOB O LINK	RT					14X23	31	0			
16+88.00 BOB O LINK	RT	16+88.00				14X23	86	0			
16+88.00 BOB O LINK	RT	17+12.90				14X23	83	0			
							TOTALS	412	10		

SUMMARY OF SODDING						
STATION	SIDE	LENGTH (LF)	WIDTH (LF)	AREA (SY)		
10+40 BOB O LINK	RT	810	15	9150		
16+50 BOB O LINK	LT	80	40	2400		
19+50 BOB O LINK	LT	130	50	6500		
18+00 CRUZAT	LT	180	10	1800		
18+00 CRUZAT	RT	180	15	2700		
				TOTAL	22250	

SUMMARY OF MAILBOXES			
STATION	SIDE	QUANTITY (EA)	
16+80 GORHAM	LT	1	
17+10 GORHAM	LT	1	
17+85 GORHAM	LT	2	
18+80 GORHAM	LT	1	
18+85 GORHAM	LT	1	BRICK MAILBOX
18+90 CRUZAT	RT	1	
18+00 CRUZAT	RT	1	
		TOTAL	8

SUMMARY OF RIPRAP / STONE				
STATION	SIDE	RIPRAP (SY)	5/8" STONE (TON)	
17+20 DITCH		8		
19+48 BOB O LINK	LT	2		
		TOTAL	8	0

SUMMARY OF TURNOUTS						
STATION	SIDE	CONCRETE (SY)	ASPHALT (SY)	GRAVEL (SY)	MILLING (SY)	
16+90 GORHAM	LT	8.8				
17+20 GORHAM	LT	11.8				
17+70 GORHAM	RT		42			
18+15 GORHAM	LT	13.6				
18+80 GORHAM	LT	18.3				
18+80 CRUZAT	RT		28.1			
18+47 CRUZAT	RT		29.2			
11+45 BOB O LINK	RT		35			
12+28 BOB O LINK	RT		33			
14+55 BOB O LINK	RT		34			
14+81 BOB O LINK	RT		52			
15+28 BOB O LINK	RT		34			
16+32 BOB O LINK	LT		162			
		TOTAL	297.3	201.3	0	0

SUMMARY OF TURBIDITY BARRIER				
STATION	SIDE	STAKED (LF)	FLOATING (LF)	
16+50 GORHAM	90' LT		75	
19+50 GORHAM	175' LT		80	
		TOTAL	155	

PAY ITEM NOTES:

- PAY ITEM 2: CLEARING AND GRUBBING IS A LUMP SUM PAY ITEM FOR THIS PROJECT AND SHOULD BE BASED ON AN ENGINEER ESTIMATE OF 4000 SY. ALL TREES WHICH NEED TO BE REMOVED SHALL BE INCLUDED IN THE COST OF CLEARING AND GRUBBING. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE AMOUNT, LOCATION, AND SIZE OF TREES AND OTHER ITEMS TO BE REMOVED BEFORE BIDDING. REMOVAL OF APPROXIMATE 200 SY OF GRAVEL, SANDBAG HEADWALL, DRIVEWAYS, BOLLARDS, EXISTING RAILROAD TIMBERS, 285 LF PIPE REMOVAL, EXISTING INLET REMOVAL AND ALL DEMOLITION ITEMS IN PROJECT NOT NOTED AS SEPARATE LINE ITEMS SHALL BE INCLUDED IN THE COST FOR CLEARING AND GRUBBING.
- PAY ITEM 7 AND ALT BID 1 ITEM 3: REMOVAL AND REPLACE OF UNSUITABLE MATERIALS SHALL ONLY BE USED WHERE FIELD CONDITIONS WARRANT AND UPON COUNTY APPROVAL FOR EACH SITUATION ENCOUNTERED. THIS QUANTITY WILL BE IN-PLACE MEASURE.
- PAY ITEM 8: THIS LINE ITEM SHALL COVER DEWATERING, WELL POINT SYSTEM AND ALL FILTRATION ITEMS SUCH AS BUT NOT LIMITED TO FILTER BAGS. ALL WATER FROM DEWATERING ACTIVITIES NEED TO BE FILTERED THROUGH FILTER BAGS OR APPROVED EQUAL TO PREVENT SEDIMENTS FROM ENTERING PERDIDO BAY.
- ALT BID 1 - ITEM 1: SAND FOR THE CONSTRUCTION OF THE LIVING SHORELINE COMPONENT OF THIS PROJECT SHALL MEET THE SAME STANDARDS FOR COLOR AND QUALITY AS REQUIRED FOR PLACEMENT ON LOCAL BARRIER ISLANDS. SEE ESCAMBIA COUNTY LAND DEVELOPMENT CODE (LDC) DESIGN STANDARDS MANUAL (DSM) CHAPTER 2, ARTICLE 1-5 FOR SAND SPECIFICATIONS. CONTRACTOR SHALL PROVIDE A SAMPLE OF THE SAND TO BE USED FOR THE PROJECT TO THE ENGINEER OF RECORD AND THE COUNTY FOR APPROVAL PRIOR TO DELIVERY TO THE SITE.
- ALT BID 1 - ITEM 4: BREAKWATERS TO BE CLASS II NATURE LIMESTONE BOULDERS SOURCED IN PANHANDLE OR NORTH FLORIDA. NO MORE THAN 10% OF THE STONE WILL HAVE A DIAMETER GREATER THAN SIXTEEN (16) INCHES; NO MORE THAN 50% OF THE STONE WILL HAVE A DIAMETER LESS THAN TWELVE (12) INCHES; AND NO MORE THAN 10% OF THE STONE WILL HAVE A DIAMETER OF LESS THAN SIX (6) INCHES. BREAKWATERS SHALL BE CONSTRUCTED OF UNCONSOLIDATED LIMESTONE BOULDERS OR APPROVED EQUAL BOULDERS USED IN BREAKWATERS SHALL MEET SPECIFICATIONS OF CLASS II RIPRAP OR AS NOTED ABOVE. LIMESTONE BOULDERS SHALL BE WASHED, AS NECESSARY, PRIOR TO DEPLOYMENT TO PREVENT TURBID DISCHARGE BY REMOVAL OF ASSOCIATED FINES.
- ALT BID 1 - ITEM 5 AND 6: WETLAND PLANTING. THIS LINE ITEM COVERS THE COST TO PURCHASE AND INSTALL ALL WETLAND VEGETATION. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE AMOUNT, LOCATION, AND NUMBER OF PLANTS PRIOR TO BIDDING. THESE ARE ALTERNATE BID ITEMS AS ESCAMBIA COUNTY MAY PROVIDE AND INSTALL WETLAND VEGETATION FOR THESE TWO ITEMS.

INNERARITY POINT ROAD AREA  
DRAINAGE IMPROVEMENTS  
SECTION B: GORHAM RD.  
SUMMARY OF PAY ITEMS & QUANTITIES



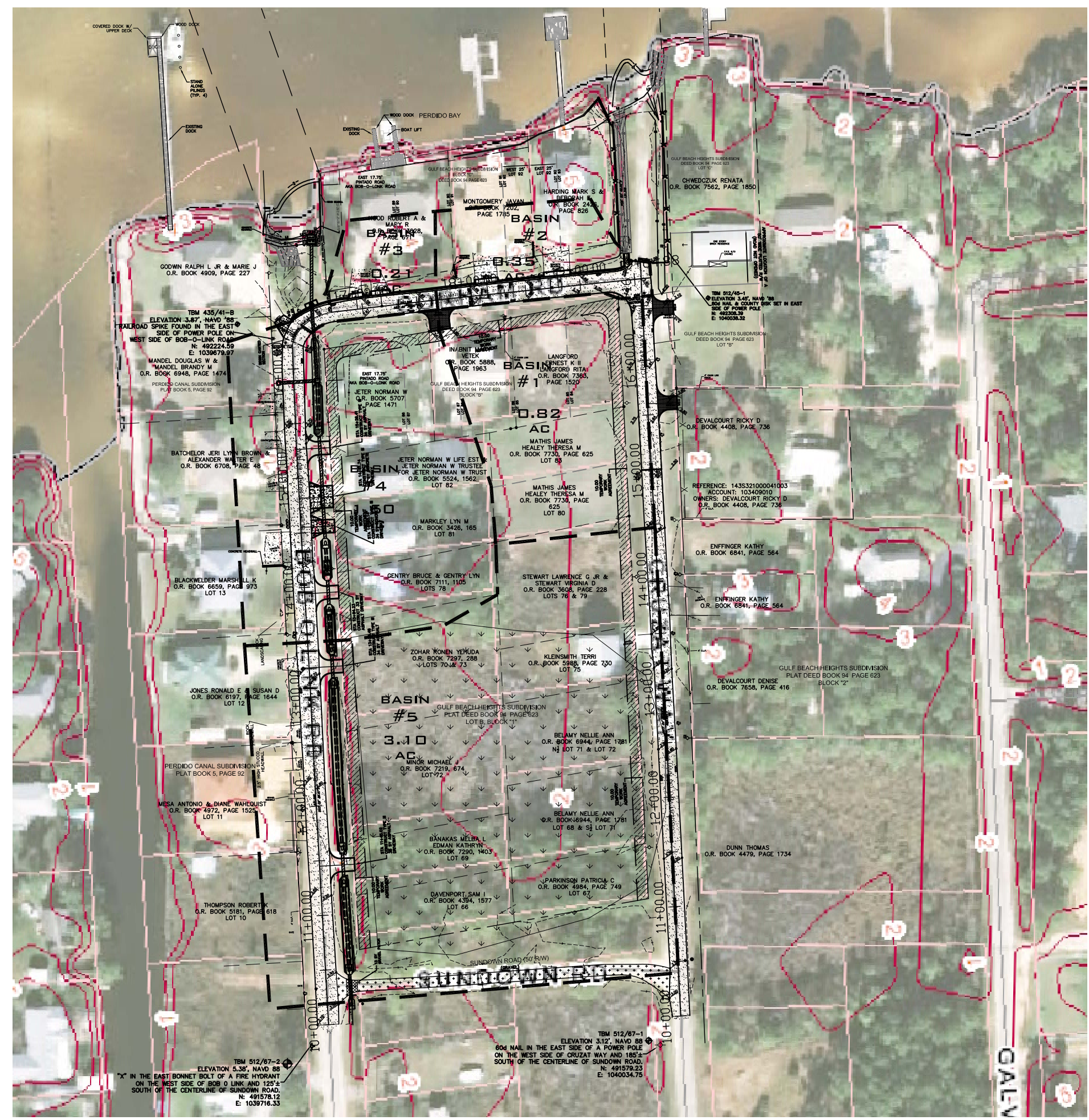
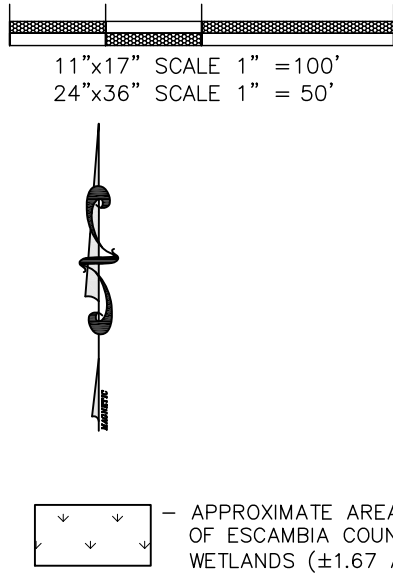
HAMMOND ENGINEERING, INC.  
FLORIDA AUTHORIZATION NO. 91330  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH 'S' STREET  
PENSACOLA, FL 32505  
PHONE: (850) 434-2603 FAX: (850) 434-2650

REVISIONS	DATE	APPROVED BY	REASON
1.	10/7/18	T. BERRY	REVISED SHALE ON BOB O LINK
2.	1/17/17	T. BERRY	AS PER ESCAMBIA COUNTY BIDD COMMENTS
3.	2/14/17	T. BERRY	AS PER ESCAMBIA COUNTY BIDD COMMENTS
4.	6/14/18	T. BERRY	INCORPORATED LIVING SHORELINE AND CHA ADDITIONS
5.	6/29/18	T. BERRY	AS PER ESCAMBIA COUNTY BIDD COMMENTS
6.	7/13/18	T. BERRY	AS PER ESCAMBIA COUNTY 100% COMMENTS

PROJECT NUMBER: 13-020  
SURVEY NUMBER:  
SHEET C3 of C22



PHASE	REVIEW	DATE	ORIGINATOR (RP)	ORIGINATOR (GR)	ORIGINATOR (QR)	DATE	VERIFICATION, CHECKER (OR)
	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)		CHECKER (RP)	Correct (Green Highlighter) Change (Red Pen)	REMARK INCORPORATION		(Blue Highlighter)
SIGNATURE:			CHANGE INCORPORATION	(Yellow Highlighter)	ORIGINATOR VERIFICATION		(Blue Highlighter)
					Correct (Pink Highlighter)		



**INNERARY POINT ROAD AREA  
DRAINAGE IMPROVEMENTS  
SECTION B: GORHAM RD.  
DRAINAGE MAP**

---

**HAMMOND ENGINEERING, INC.**  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH 'S' STREET  
PENSACOLA, FL 32505  
PHONE: (850) 434-2603 FAX: (850) 434-2650

DESIGNED BY: T. HAMMOND  
DRAWN BY: ARS  
CHECKED BY: T. HAMMOND  
DATE: AUGUST 2018

PROJECT MANAGER: T. BERRY  
DISTRICT: TWO

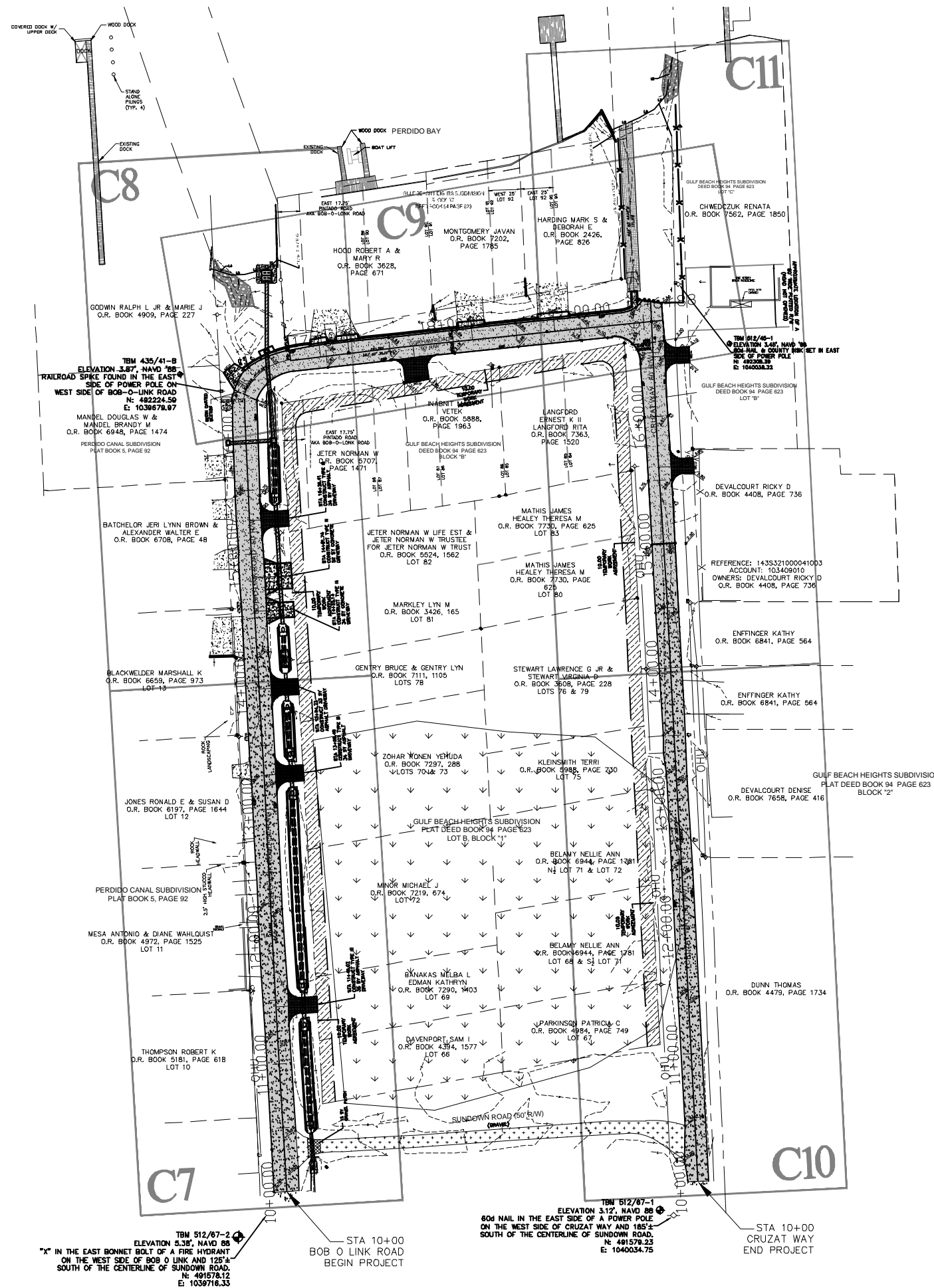
REVISIONS	DATE	APPROVED BY
1. REVISED SINGLE ON BOB O LINK	10/7/16	T. BERRY
2. AS PER ESCAMBA COUNTY SITE COMMENTS	1/4/17	T. BERRY
3. AS PER ESCAMBA COUNTY SITE COMMENTS	2/14/17	T. BERRY
4. INCORPORATED LIVING SHORELINE AND GAB ADDITIONS	6/14/18	T. BERRY
5. AS PER ESCAMBA COUNTY SITE COMMENTS	6/20/18	T. BERRY
6. AS PER ESCAMBA COUNTY 100% COMMENTS	7/13/18	T. BERRY

NUMBER 13-020  
DRAWING NUMBER  
PROJECT NUMBER  
SURVEY NUMBER

SHEET **C4** of **C22**

RELEASED FOR BID  
PLOT DATE: 8/3/18

11"x17" SCALE 1" = 100'  
24"x36" SCALE 1" = 50'



**INNERARY POINT ROAD AREA  
DRAINAGE IMPROVEMENTS  
SECTION B: GORHAM RD.  
PROJECT LAYOUT**



**HAMMOND ENGINEERING, INC.**  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH 'S' STREET  
PENSACOLA, FL 32505  
PHONE: (850) 434-2603 FAX: (850) 434-2650

DESIGNED BY:	T. HAMMOND	DATE:	AUGUST 2018
CHECKED BY:	T. HAMMOND	DATE:	AUGUST 2018
DRAWN BY:	T. BERRY	DATE:	AUGUST 2018
PROJECT MANAGER:	T. BERRY	DISTRICT:	TWO
REG. P.A. ENG. NO.:	54574	SIGNATURE:	

REVISIONS	DATE	APPROVED BY:
1. REVISED SHEET ON BOB O LINK	10/7/16	T. BERRY
2. AS PER ESCAMBIA COUNTY BOX COMMENTS	1/9/17	T. BERRY
3. AS PER ESCAMBIA COUNTY BOX COMMENTS	2/14/17	T. BERRY
4. INCORPORATED USING SHORLINE AND OAR ADDITIONS	6/14/18	T. BERRY
5. AS PER ESCAMBIA COUNTY BOX COMMENTS	6/20/18	T. BERRY
6. AS PER ESCAMBIA COUNTY 100% COMMENTS	7/13/18	T. BERRY

DRAWING NUMBER: **13-020**  
PROJECT NUMBER:  
SURVEY NUMBER:  
SHEET **C5** OF **C22**

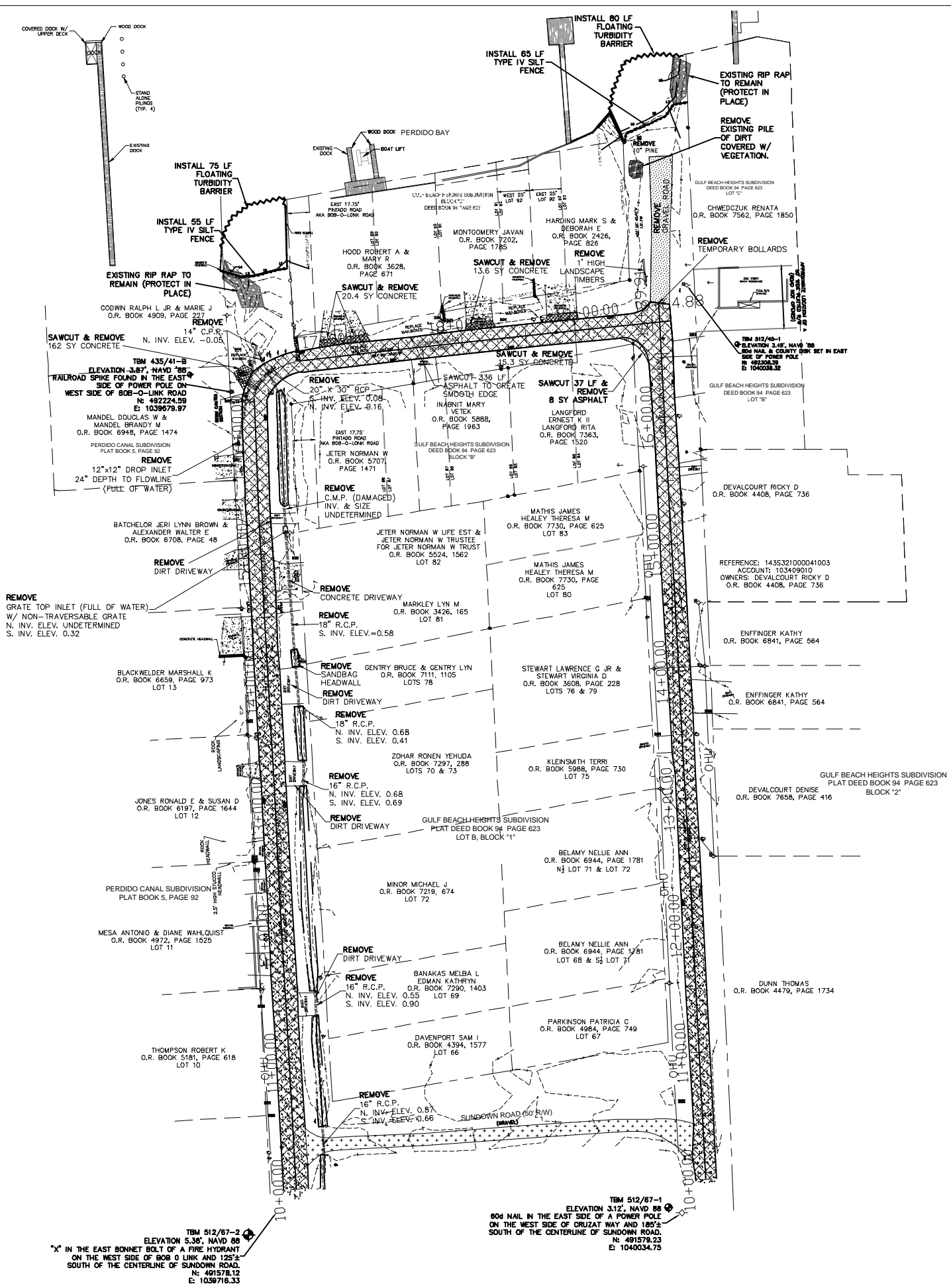


PHASE	REVIEW	DATE	ORIGINATOR (RP)	ORIGINATOR (GR)	ORIGINATOR (CR)	ORIGINATOR (DR)	ORIGINATOR (DR)	DATE	VERIFICATION, CHECKER (DR)
			PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL	CHANGE INCORPORATION	REMARK INCORPORATION	CORRECT (PINK HIGHLIGHTER)	CORRECT (PINK HIGHLIGHTER)		
SIGNATURE:									

11"x17" SCALE 1" = 100'  
24"x36" SCALE 1" = 50'



DENOTES EXISTING ASPHALT, BASE AND SUBGRADE TO BE REMOVED (3354 SY)



**INNERARY POINT ROAD AREA  
DRAINAGE IMPROVEMENTS  
SECTION B: GORHAM RD.  
DEMOLITION PLAN**



**HAMMOND ENGINEERING, INC.**  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH 'S' STREET  
PENSACOLA, FL 32505  
PHONE: (850) 434-2603 FAX: (850) 434-2650

DESIGNED BY: T. HAMMOND  
CHECKED BY: T. HAMMOND  
PROJECT MANAGER: T. BERRY  
DATE: AUGUST 2018

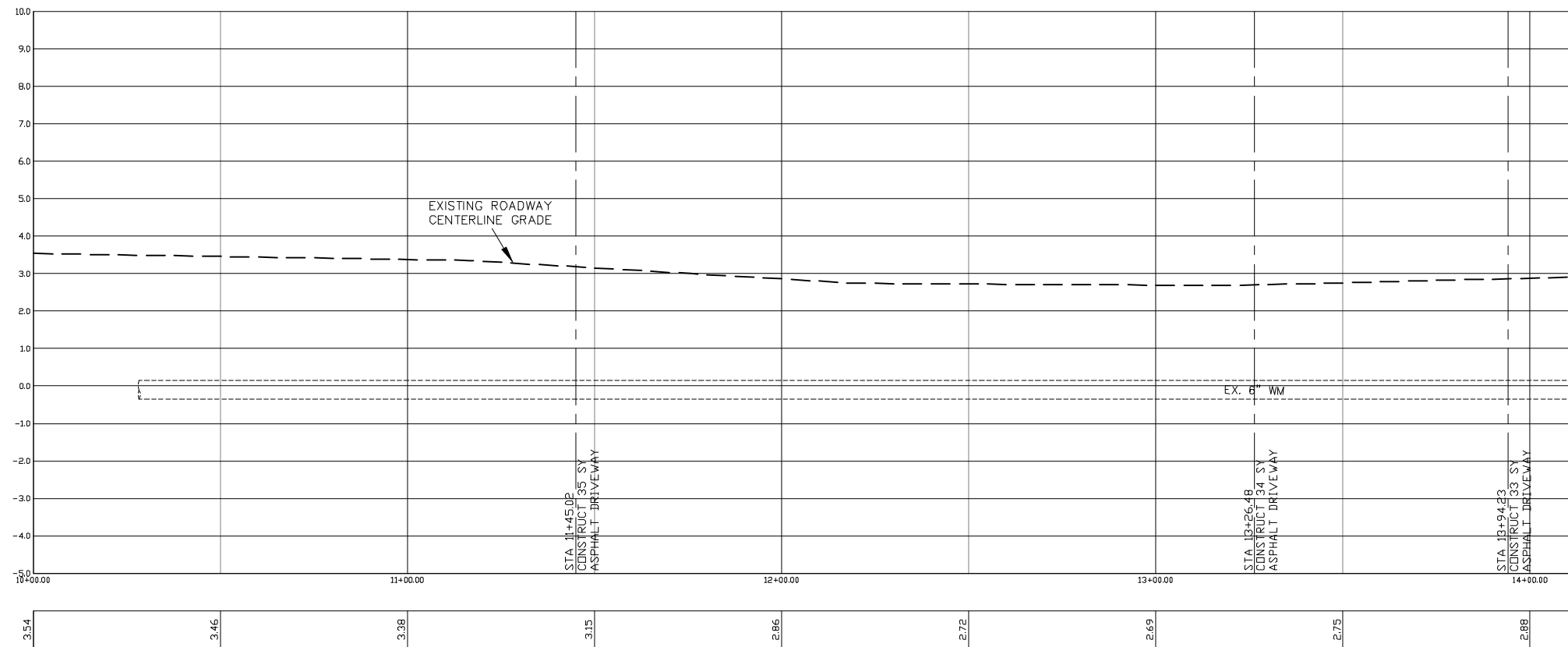
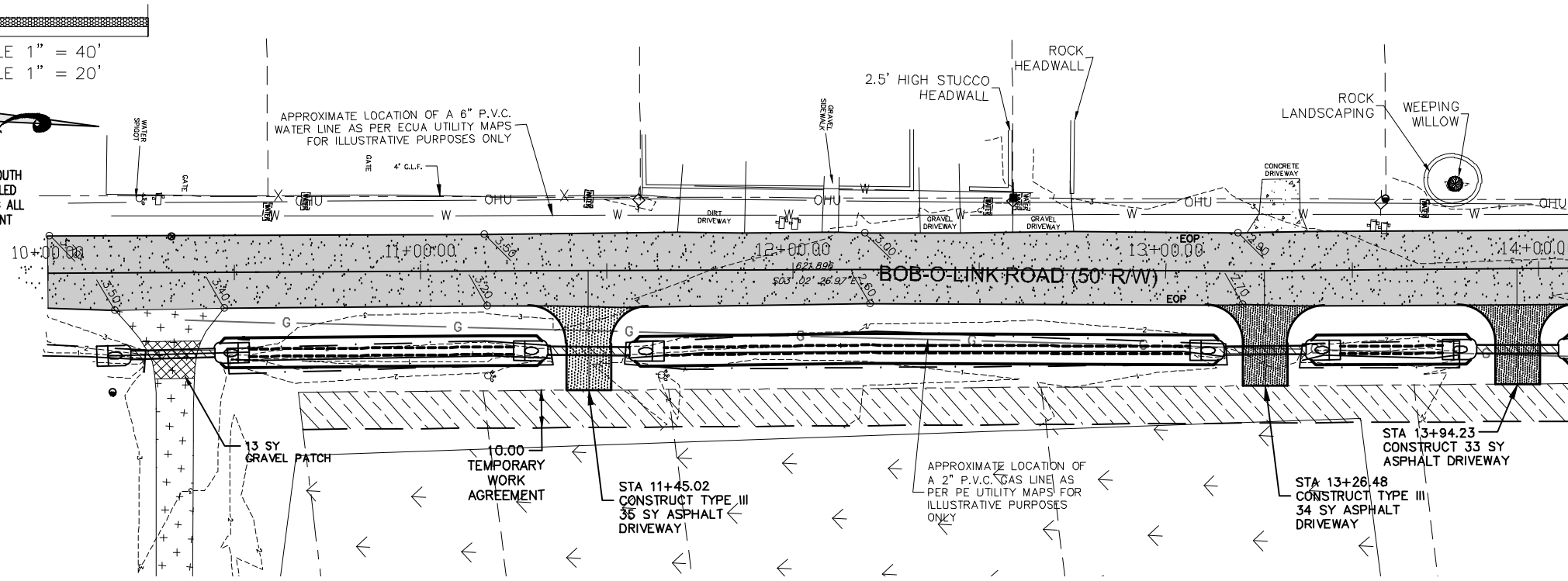
NUMBER	REVISIONS	DATE	APPROVED BY:
1.	REVISED SHEET ON BOB O LINK	10/7/16	T. BERRY
2.	AS PER ESCAMBIA COUNTY BOE COMMENTS	1/4/17	T. BERRY
3.	AS PER ESCAMBIA COUNTY BOE COMMENTS	2/14/17	T. BERRY
4.	INCORPORATED USING SHORELINE AND O&M ACTIONS	6/14/18	T. BERRY
5.	AS PER ESCAMBIA COUNTY BOE COMMENTS	6/20/18	T. BERRY
6.	AS PER ESCAMBIA COUNTY BOE COMMENTS	7/13/18	T. BERRY


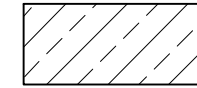
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SURVEY NUMBER:

PHASE _____ REVIEW	ORIGINATOR (RP)	DATE	ORIGINATOR (GR)	Correct (Green Highlighter) Change (Red Pen)	DATE	VERIFICATION, CHECKER (DR)	(Blue Highlighter)
SIGNATURE:	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)	DATE	CHECKER (RP)	(Red Pen X-Out to Disagree or Remark)	DATE	REMARK INCORPORATION	(Blue Highlighter)
	CHANGE INCORPORATION	DATE	CHECKER (GR)	(Yellow Highlighter)	DATE	ORIGINATOR VERIFICATION	Correct (Pink Highlighter)

11"x17" SCALE 1" = 40'  
24"x36" SCALE 1" = 20'

NOTE: EXISTING ROADWAY SOUTH OF NEW ASPHALT TO BE MILLED AND RESURFACED EXTENDING ALL THE WAY TO INNERARITY POINT ROAD. (5490 SY TOTAL)



 DENOTES NEW ASPHALT, BASE AND SUBGRADE- SEE DETAIL (3346 SY)  
 DENOTES TEMPORARY WORK AGREEMENT NEEDED TO FILL AREA TO INSURE POSITIVE SLOPE TOWARDS ROADWAY.

**INNERARITY POINT ROAD AREA  
DRAINAGE IMPROVEMENTS  
SECTION B: GORHAM RD.  
BOB O LINK ROADWAY PROFILE**



**HAMMOND ENGINEERING, INC.**  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH 'S' STREET  
PENSACOLA, FL 32505  
PHONE: (850) 434-2603 FAX: (850) 434-2650

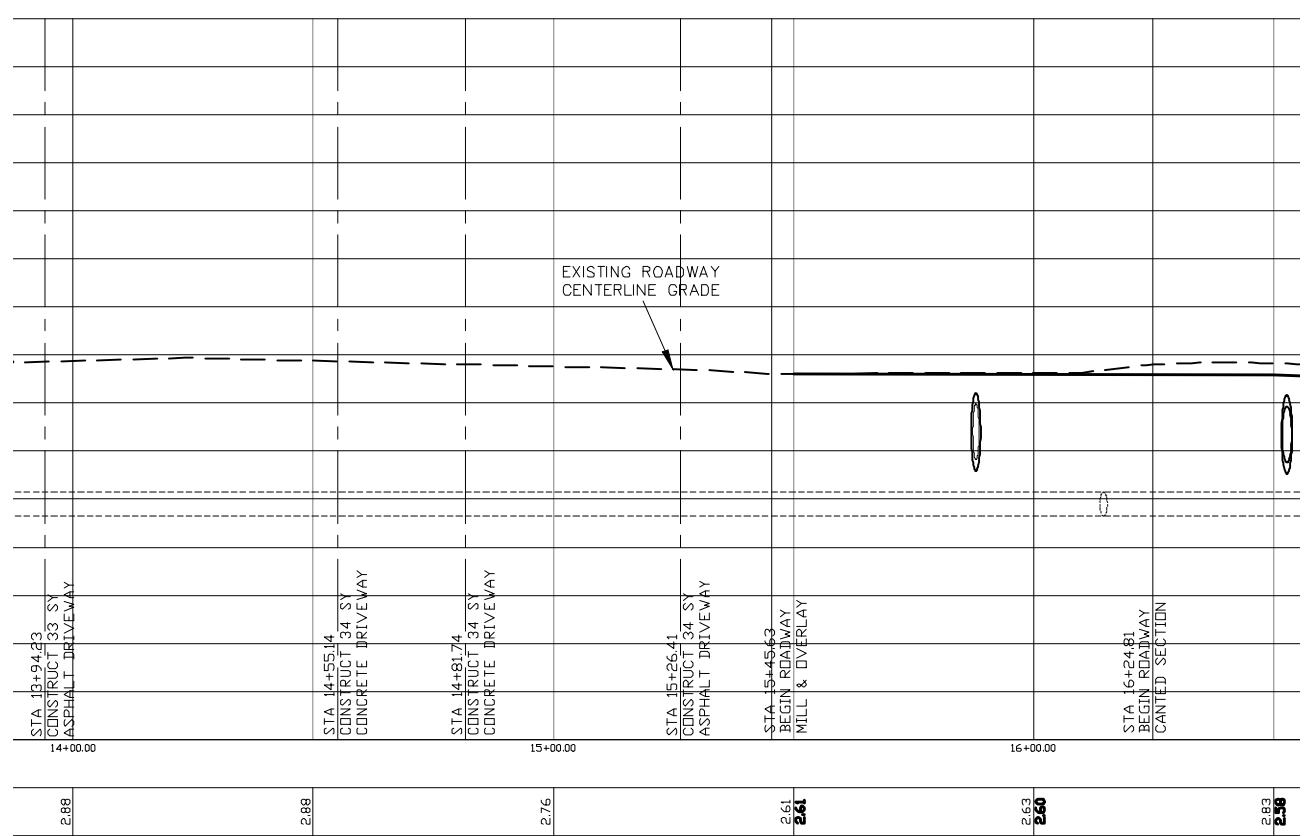
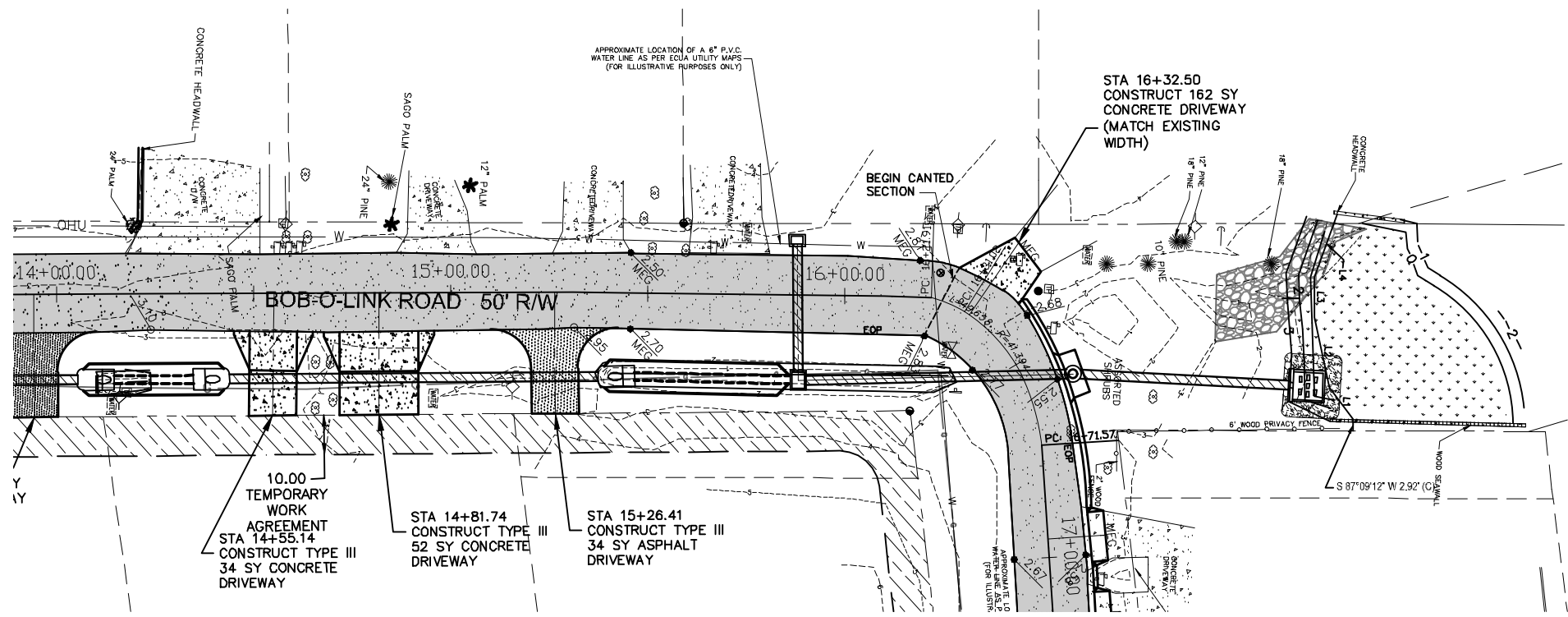
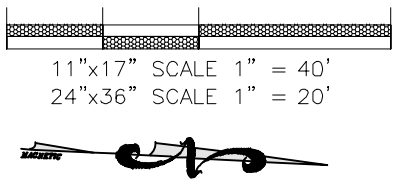
DESIGNED BY: T. HAMMOND  
CHECKED BY: T. HAMMOND  
DRAWN BY: T. BERRY  
DATE: AUGUST 2018

REG. P.A. ENG. NO. 54574  
DISTRICT: TWO

NUMBER	REVISIONS	DATE	APPROVED BY:
1.	REVISED SHEET ON BOB O LINK	10/7/16	T. BERRY
2.	AS PER ESCAMBIA COUNTY BOX COMMENTS	1/9/17	T. BERRY
3.	AS PER ESCAMBIA COUNTY BOX COMMENTS	2/14/17	T. BERRY
4.	INCORPORATED USING SHORLENE AND JAY ADRIANS	6/14/18	T. BERRY
5.	AS PER ESCAMBIA COUNTY BOX COMMENTS	6/20/18	T. BERRY
6.	AS PER ESCAMBIA COUNTY 100% COMMENTS	7/13/18	T. BERRY

DRAWING NUMBER: **13-020**  
 PROJECT NUMBER:  
 SURVEY NUMBER:  
 SHEET **C7** OF **C22**

PHASE _____ REVIEW	ORIGINATOR (RP)	DATE	ORIGINATOR (GR)	Correct (Green Highlighter) Change (Red Pen)	DATE	VERIFICATION, CHECKER (DR)	(Blue Highlighter)	DATE
SIGNATURE:	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)	CHECKER (RP)	CHANGE INCORPORATION	(Red Pen X-Out to Disagree or Remark)	DATE	REMARK INCORPORATION	(Blue Highlighter)	DATE
				(Yellow Highlighter)	DATE	ORIGINATOR VERIFICATION	Correct (Pink Highlighter)	DATE



DENOTES NEW ASPHALT, BASE AND SUBGRADE- SEE DETAIL (3346 SY)  
 DENOTES TEMPORARY WORK AGREEMENT NEEDED TO FILL AREA TO INSURE POSITIVE SLOPE TOWARDS ROADWAY.

LINE	BEARING	DISTANCE
L1	S50°24'15"W	10.07
L2	S75°19'51"W	18.11
L3	S86°13'01"W	10.19
L4	N72°47'59"W	16.89
L5	N66°02'23"E	23.30
L6	N60°15'30"E	14.74
L7	N40°04'33"E	14.71
L8	N08°08'39"E	29.21

**INNERARY POINT ROAD AREA  
DRAINAGE IMPROVEMENTS  
SECTION B: GORHAM RD.  
BOB O LINK ROADWAY PROFILE**

---

**HAMMOND ENGINEERING, INC.**  
 FLORIDA AUTHORIZATION NO. 9130  
 ALABAMA AUTHORIZATION NO. 3277  
 3802 NORTH S STREET  
 PENSACOLA, FL 32505  
 PHONE: (850) 434-2603 FAX: (850) 434-2650

DESIGNED BY: T. HAMMOND  
 CHECKED BY: T. HAMMOND  
 DRAWN BY: T. BERRY  
 DATE: AUGUST 2018

---

NUMBER	REVISIONS	DATE	APPROVED BY:
1.	REVISED SHEET ON BOB O LINK	10/7/16	T. BERRY
2.	AS PER ESCAMBA COUNTY BOM COMMENTS	1/4/17	T. BERRY
3.	AS PER ESCAMBA COUNTY BOM COMMENTS	2/14/17	T. BERRY
4.	INCORPORATED USING SHORLINE AND O&M COMMENTS	6/14/18	T. BERRY
5.	AS PER ESCAMBA COUNTY BOM COMMENTS	6/29/18	T. BERRY
6.	AS PER ESCAMBA COUNTY 100% COMMENTS	7/13/18	T. BERRY

DRAWING NUMBER: **13-020**

PROJECT NUMBER

SURVEY NUMBER

RELEASED FOR BID  
PLOT DATE: 8/3/18

SHEET **C8** OF **C22**

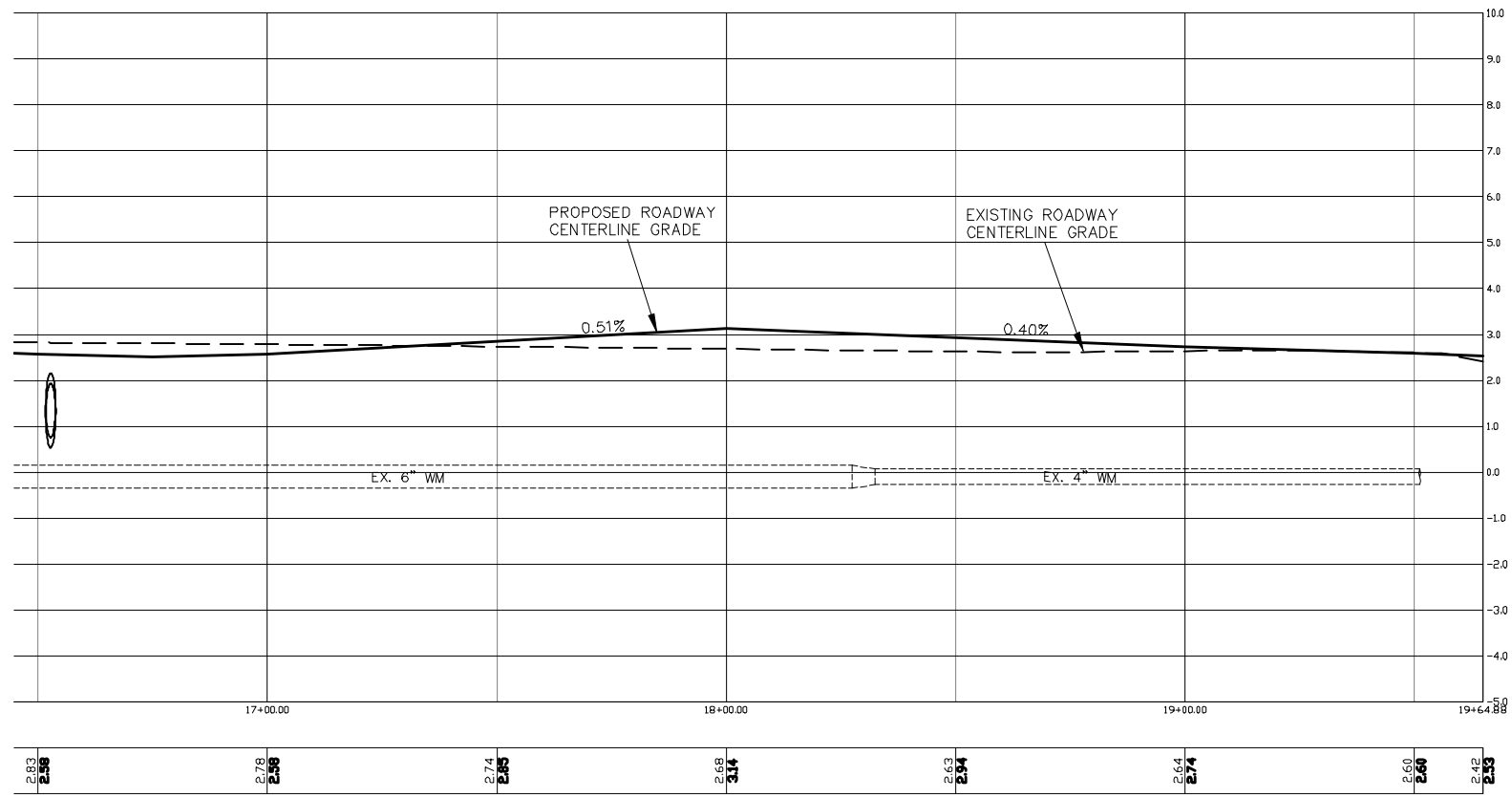
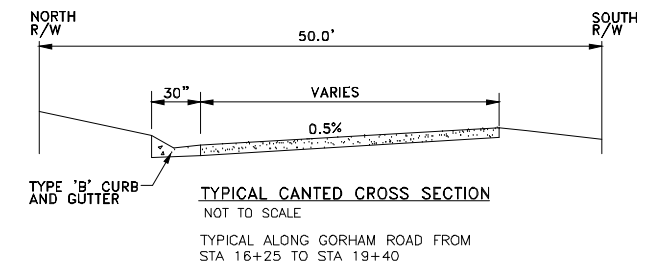
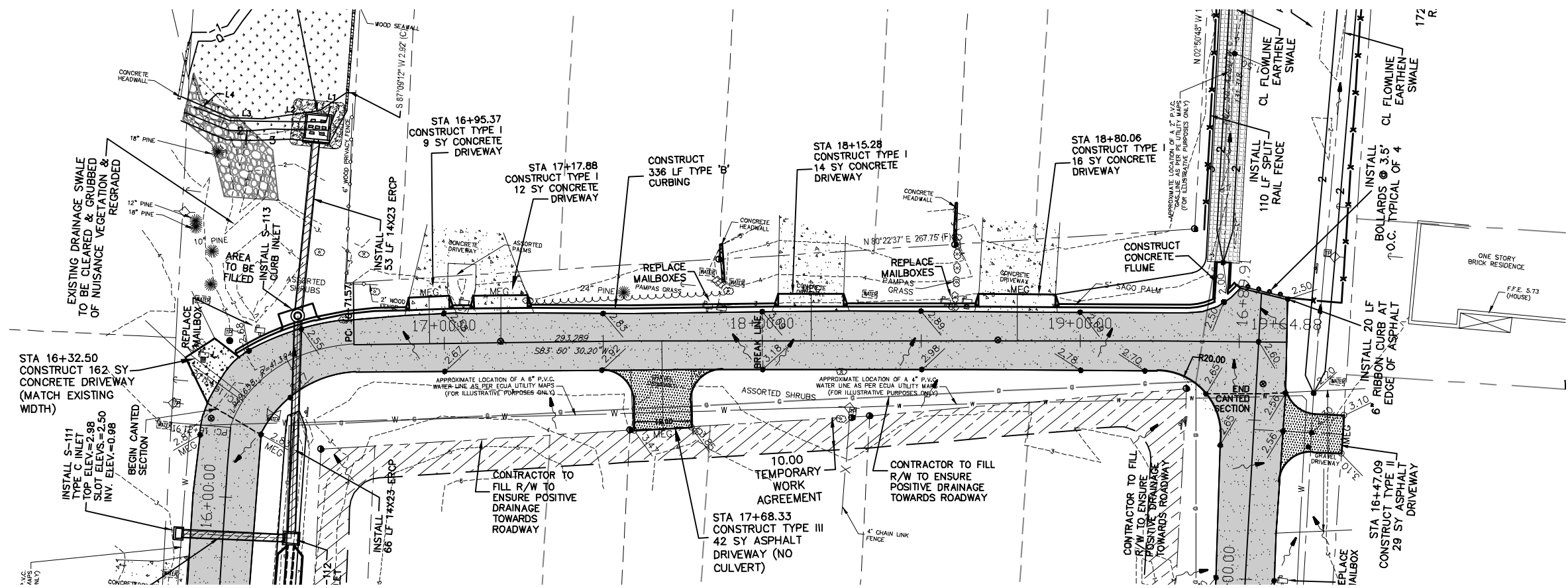



PHASE	REVIEW	DATE	ORIGINATOR (RP)	ORIGINATOR (GR)	ORIGINATOR (CR)	ORIGINATOR (DR)	DATE	VERIFICATION, CHECKER (DR)	DATE
			PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)	CORRECT (GREEN HIGHLIGHTER) CHANGE (RED PEN)	CORRECT (GREEN HIGHLIGHTER) CHANGE (RED PEN)	CORRECT (GREEN HIGHLIGHTER) CHANGE (RED PEN)		(Blue Highlighter)	
SIGNATURE:			CHECKER (RP)	CHECKER (GR)	CHECKER (CR)	CHECKER (DR)		(Blue Highlighter)	
			CHANGE INCORPORATION (Yellow Highlighter)	CHANGE INCORPORATION (Red Pen)	CHANGE INCORPORATION (Red Pen)	CHANGE INCORPORATION (Red Pen)		Correct (Pink Highlighter)	

11"x17" SCALE 1" = 40'  
24"x36" SCALE 1" = 20'



■ DENOTES NEW ASPHALT, BASE AND SUBGRADE—SEE DETAIL (3346 SY)





**INNERARY POINT ROAD AREA  
DRAINAGE IMPROVEMENTS  
SECTION B: GORHAM RD.  
GORHAM ROADWAY PROFILE**

---

**HAMMOND ENGINEERING, INC.**  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH S STREET  
PENSACOLA, FL 32505  
PHONE: (850) 434-2603 FAX: (850) 434-2650

DESIGNED BY:	T. HAMMOND	CHECKED BY:	T. HAMMOND	REG. P.A. ENG. NO.:	54574
DRAWN BY:	T. BERRY	PROJECT MANAGER:	T. HAMMOND	DISTRICT:	TWO
DATE:	AUGUST 2018	SIGNATURE:			

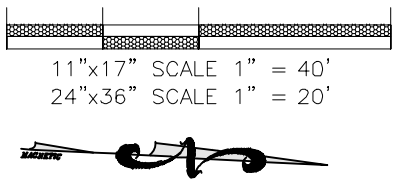
REVISIONS	DATE	APPROVED BY:
1. REVISED SINGLE ON BOB O LINK	10/7/16	T. BERRY
2. AS PER ESCAMBA COUNTY BOE COMMENTS	1/4/17	T. BERRY
3. AS PER ESCAMBA COUNTY BOE COMMENTS	2/14/17	T. BERRY
4. INCORPORATED USING SHOULDER AND CHA ADJUSTIONS	6/14/18	T. BERRY
5. AS PER ESCAMBA COUNTY BOE COMMENTS	6/20/18	T. BERRY
6. AS PER ESCAMBA COUNTY 100% COMMENTS	7/13/18	T. BERRY

NUMBER 13-020  
DRAWING NUMBER  
PROJECT NUMBER  
SURVEY NUMBER

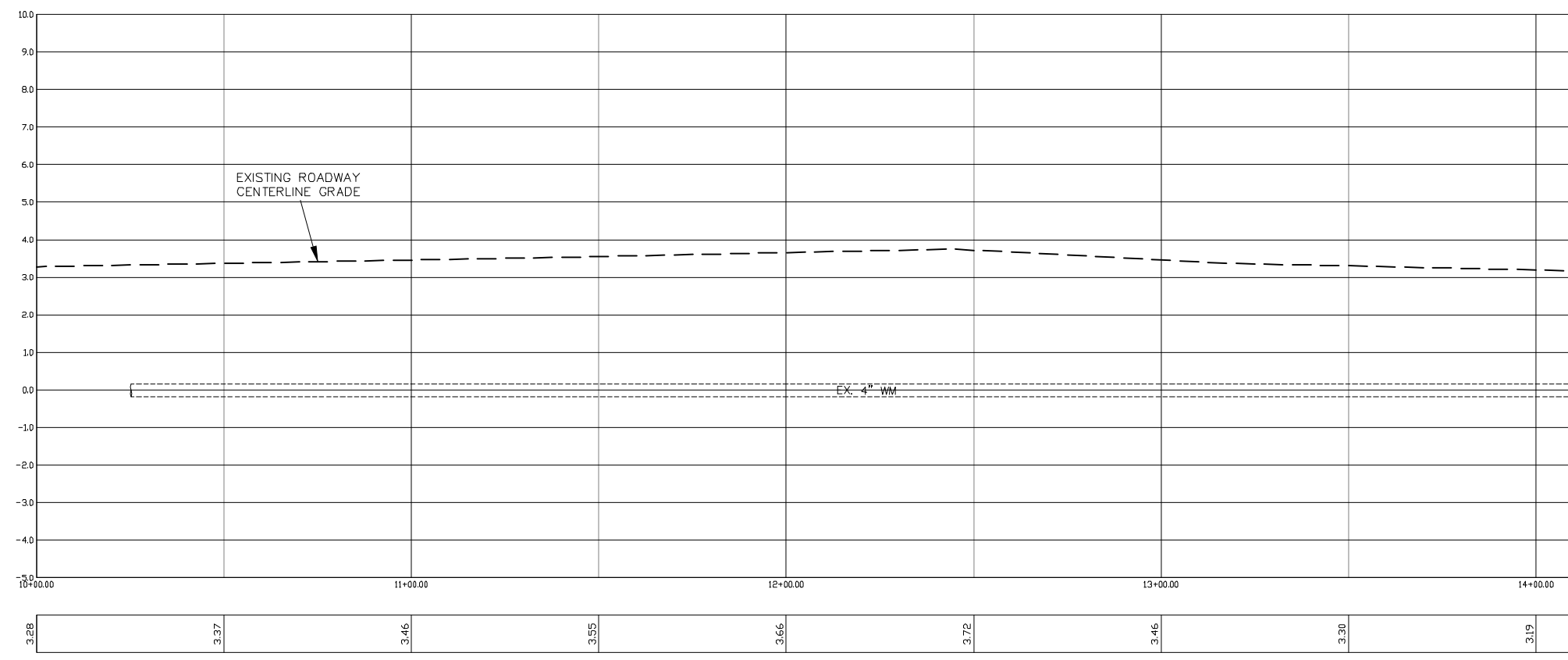
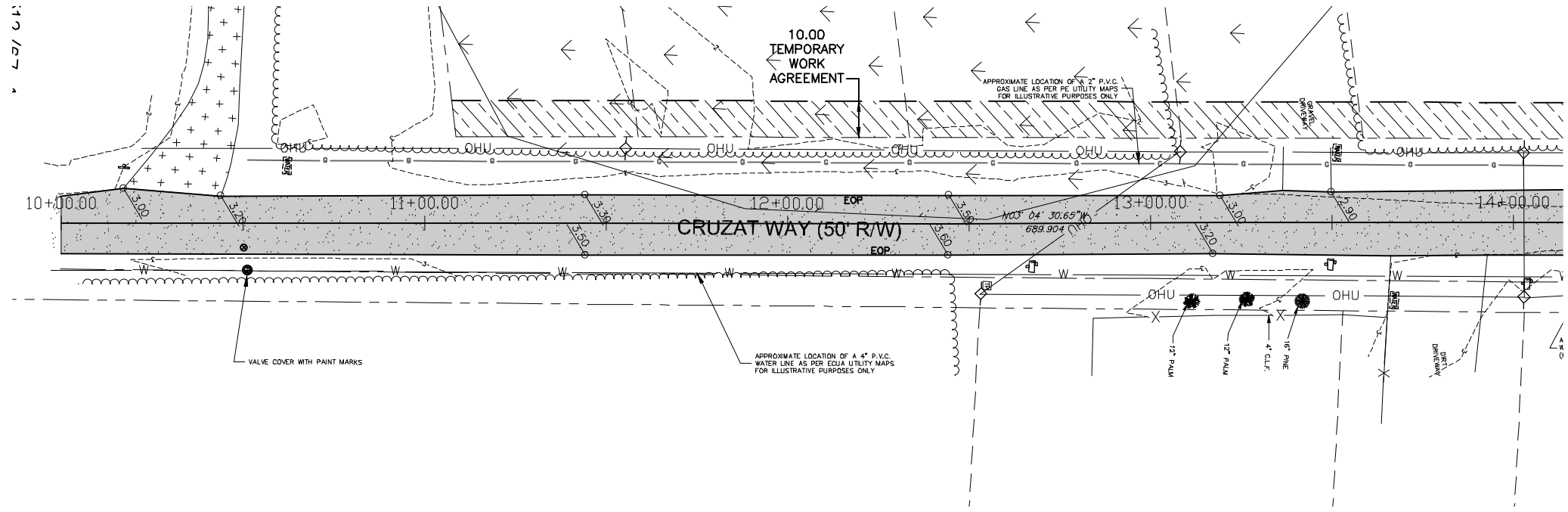
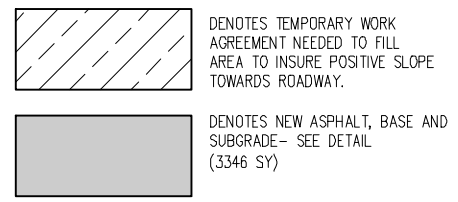
RELEASED FOR BID  
PLOT DATE: 8/3/18

SHEET **C9** OF **C22**

PHASE	REVIEW	DATE	ORIGINATOR (RP)	ORIGINATOR (GR)	ORIGINATOR (CR)	ORIGINATOR (DR)	DATE	VERIFICATION, CHECKER (DR)	DATE
SIGNATURE:			PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)	CHECKER (RP)	Correct (Green Highlighter)	Change (Red Pen)	Change (Red Pen)	REMARK INCORPORATION (Blue Highlighter)	DATE
			CHANGE INCORPORATION (Yellow Highlighter)	CHANGE INCORPORATION (Red Pen)	Change (Red Pen)	Change (Red Pen)	Change (Red Pen)	ORIGINATOR VERIFICATION (Pink Highlighter)	DATE



NOTE: EXISTING ROADWAY SOUTH OF NEW ASPHALT TO BE MILLED AND RESURFACED EXTENDING ALL THE WAY TO INNERARITY POINT ROAD. (5490 SY TOTAL)



**INNERARITY POINT ROAD AREA  
DRAINAGE IMPROVEMENTS  
SECTION B: GORHAM RD.  
CRUZAT ROADWAY PROFILE**



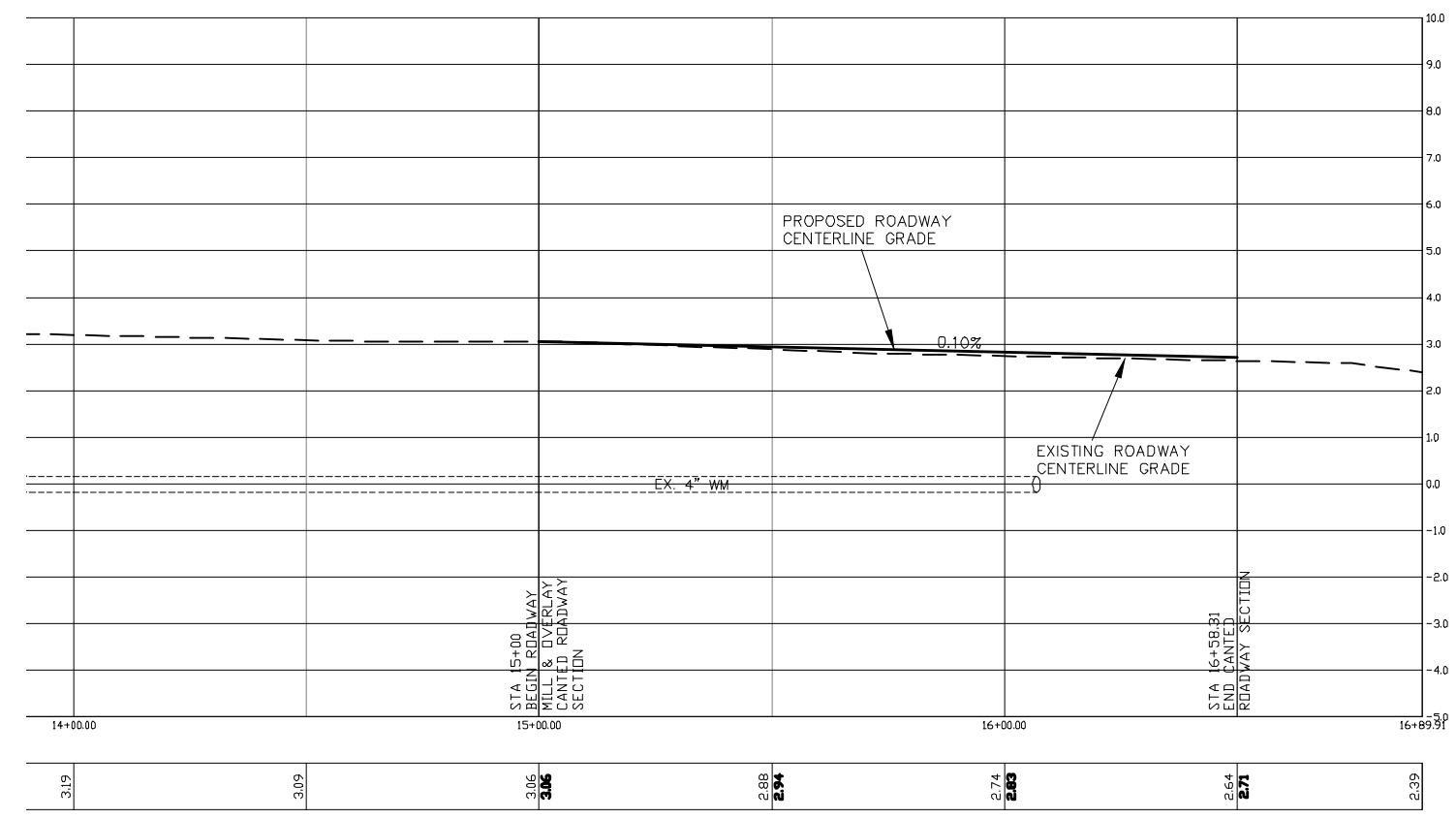
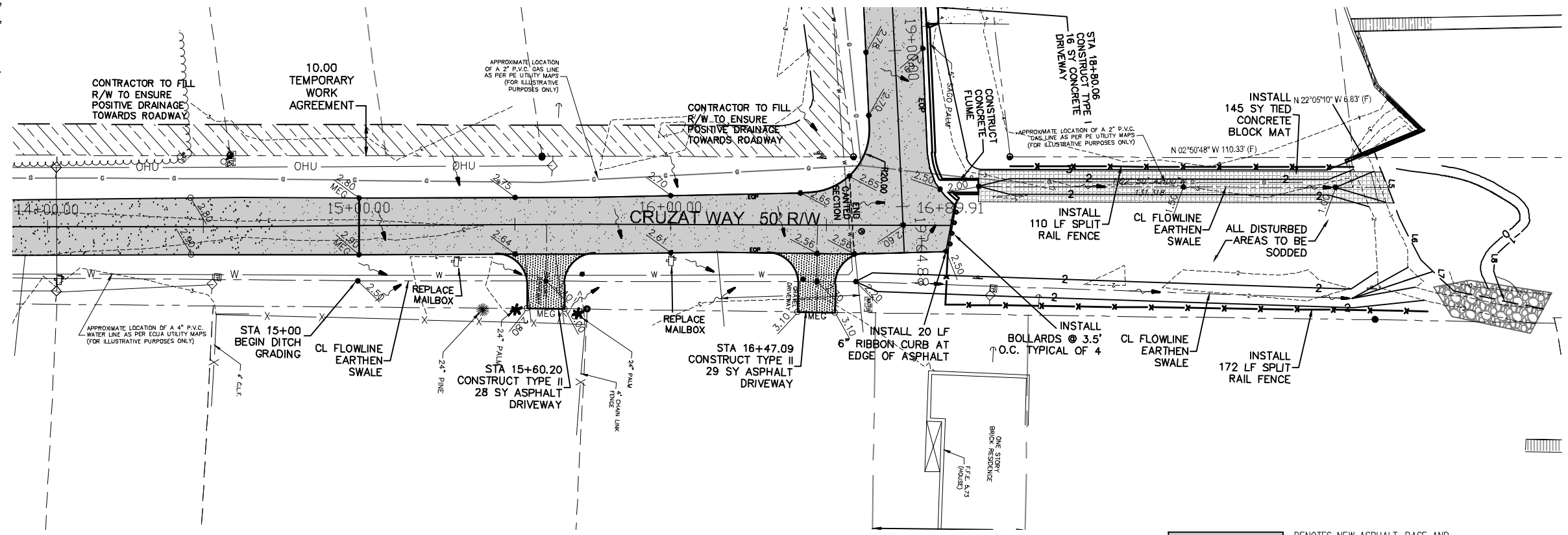
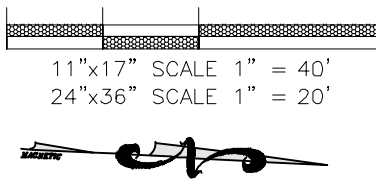
**HAMMOND ENGINEERING, INC.**  
 FLORIDA AUTHORIZATION NO. 9130  
 ALABAMA AUTHORIZATION NO. 3277  
 3802 NORTH 'S' STREET  
 PENSACOLA, FL 32505  
 PHONE: (850) 434-2603 FAX: (850) 434-2650

DESIGNED BY: T. HAMMOND  
 CHECKED BY: T. HAMMOND  
 PROJECT MANAGER: T. HAMMOND  
 DRAWN BY: AFS  
 DATE: AUGUST 2018  
 DISTRICT: TWO  
 SIGNATURE: T. BERRY

NUMBER	REVISIONS	DATE	APPROVED BY:
1.	REVISED SHEET ON BOB O LINK	10/7/16	T. BERRY
2.	AS PER ESCAMBIA COUNTY BOE COMMENTS	1/4/17	T. BERRY
3.	AS PER ESCAMBIA COUNTY BOE COMMENTS	2/14/17	T. BERRY
4.	INCORPORATED USING SHORLENE AND JAH ACTIONS	6/14/18	T. BERRY
5.	AS PER ESCAMBIA COUNTY BOE COMMENTS	6/20/18	T. BERRY
6.	AS PER ESCAMBIA COUNTY 100% COMMENTS	7/13/18	T. BERRY

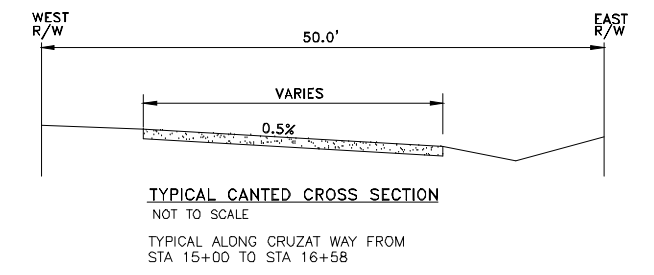
DRAWING NUMBER: **13-020**  
 PROJECT NUMBER:  
 SURVEY NUMBER:

PHASE	REVIEW	DATE	ORIGINATOR (RP)	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL	REVIEW (RP)	CHECKER (RP)	ORIGINATOR (GR)	Correct (Green Highlighter)	Change (Red Pen)	DATE	VERIFICATION, CHECKER (DR)	(Blue Highlighter)	DATE	REMARK INCORPORATION	(Blue Highlighter)	DATE	ORIGINATOR VERIFICATION	Correct (Pink Highlighter)	DATE	SIGNATURE:
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DENOTES NEW ASPHALT, BASE AND SUBGRADE - SEE DETAIL (3346 SY)

DENOTES TEMPORARY WORK AGREEMENT NEEDED TO FILL AREA TO INSURE POSITIVE SLOPE TOWARDS ROADWAY.



**INNERARY POINT ROAD AREA  
DRAINAGE IMPROVEMENTS  
SECTION B: GORHAM RD.  
CRUZAT ROADWAY PROFILE**



**HAMMOND ENGINEERING, INC.**  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH 'S' STREET  
PENSACOLA, FL 32505  
PHONE: (850) 434-2603 FAX: (850) 434-2650

DESIGNED BY: T. HAMMOND  
CHECKED BY: T. HAMMOND  
DRAWN BY: T. HAMMOND  
DATE: AUGUST 2018

PROJECT MANAGER: T. BERRY  
DISTRICT: TWO

NUMBER	REVISIONS	DATE	APPROVED BY:
1.	REVISED SHALE ON BOB O LINK	10/7/16	T. BERRY
2.	AS PER ESCAMBIA COUNTY BOE COMMENTS	1/2/17	T. BERRY
3.	AS PER ESCAMBIA COUNTY BOE COMMENTS	2/14/17	T. BERRY
4.	INCORPORATED USING SHORLENE AND JAH ACTIONS	6/14/18	T. BERRY
5.	AS PER ESCAMBIA COUNTY BOE COMMENTS	6/20/18	T. BERRY
6.	AS PER ESCAMBIA COUNTY 100% COMMENTS	7/13/18	T. BERRY

DRAWING NUMBER: **13-020**

PROJECT NUMBER

SURVEY NUMBER

SHEET **C11** OF **C22**



PHASE \_\_\_\_\_ REVIEW \_\_\_\_\_ DATE \_\_\_\_\_

ORIGINATOR (RP) \_\_\_\_\_ DATE \_\_\_\_\_

PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP) \_\_\_\_\_ DATE \_\_\_\_\_

ORIGINATOR (GR) \_\_\_\_\_ DATE \_\_\_\_\_

CHECKER (RP) \_\_\_\_\_ DATE \_\_\_\_\_

CHANGE INCORPORATION \_\_\_\_\_ DATE \_\_\_\_\_

ORIGINATOR (GR) \_\_\_\_\_ DATE \_\_\_\_\_

Correct (Green Highlighter) Change (Red Pen) \_\_\_\_\_ DATE \_\_\_\_\_

PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP) \_\_\_\_\_ DATE \_\_\_\_\_

CHECKER (RP) \_\_\_\_\_ DATE \_\_\_\_\_

CHANGE INCORPORATION \_\_\_\_\_ DATE \_\_\_\_\_

ORIGINATOR (GR) \_\_\_\_\_ DATE \_\_\_\_\_

Correct (Green Highlighter) Change (Red Pen) X-Out to Disagree or Remark \_\_\_\_\_ DATE \_\_\_\_\_

ORIGINATOR VERIFICATION \_\_\_\_\_ DATE \_\_\_\_\_

Correct (Pink Highlighter) \_\_\_\_\_ DATE \_\_\_\_\_

REMARK INCORPORATION \_\_\_\_\_ DATE \_\_\_\_\_

VERIFICATION, CHECKER (GR) \_\_\_\_\_ DATE \_\_\_\_\_

(Blue Highlighter) \_\_\_\_\_ DATE \_\_\_\_\_

ORIGINATOR VERIFICATION \_\_\_\_\_ DATE \_\_\_\_\_

Correct (Pink Highlighter) \_\_\_\_\_ DATE \_\_\_\_\_

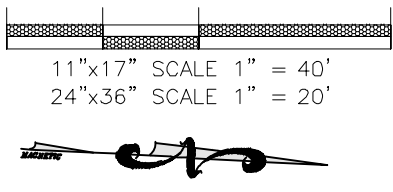
REMARK INCORPORATION \_\_\_\_\_ DATE \_\_\_\_\_

VERIFICATION, CHECKER (GR) \_\_\_\_\_ DATE \_\_\_\_\_

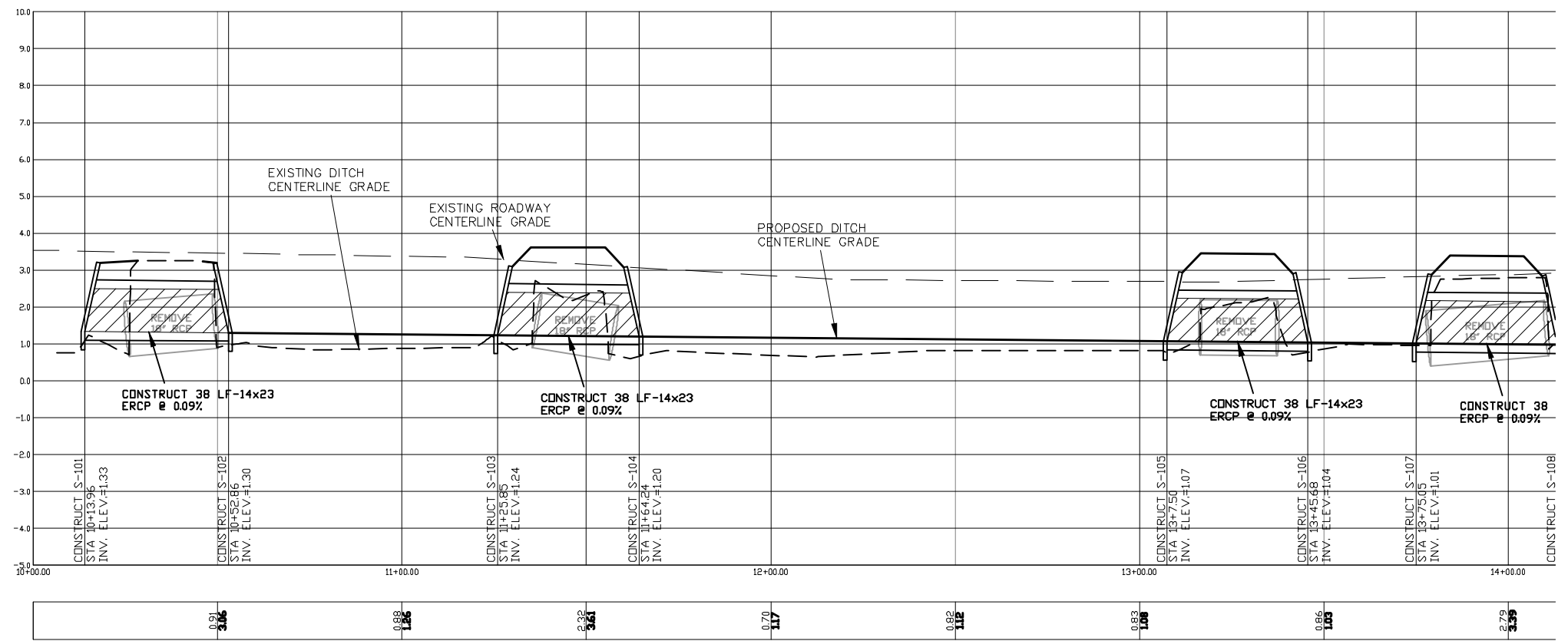
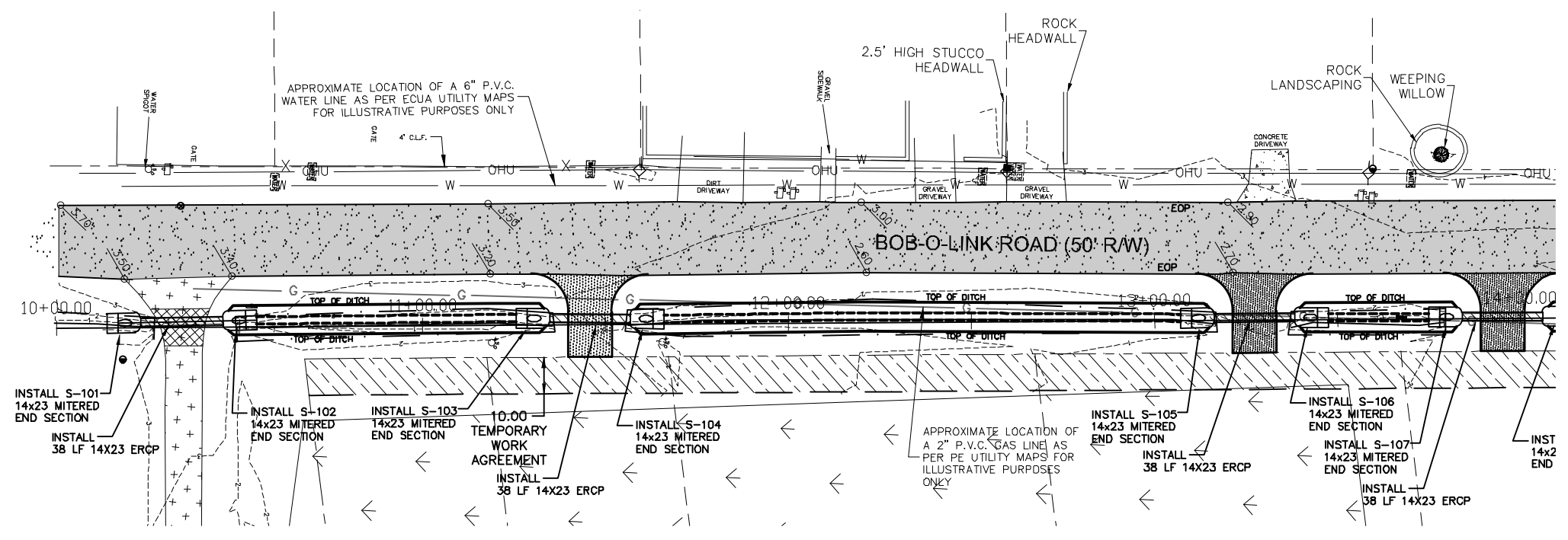
(Blue Highlighter) \_\_\_\_\_ DATE \_\_\_\_\_

ORIGINATOR VERIFICATION \_\_\_\_\_ DATE \_\_\_\_\_

Correct (Pink Highlighter) \_\_\_\_\_ DATE \_\_\_\_\_



DRAINAGE STRUCTURES								
STRUCTURE #	DITCH STATION	DESCRIPTION	TOP ELEV.	FLOWLINE ELEV.				
S-101	10+13.96	14x23 MITERED END SECTION	N/A	1.33				
S-102	10+52.86	14x23 MITERED END SECTION	N/A	1.30				
S-103	11+25.85	14x23 MITERED END SECTION	N/A	1.24				
S-104	11+64.24	14x23 MITERED END SECTION	N/A	1.20				
S-105	13+7.50	14x23 MITERED END SECTION	N/A	1.07				
S-106	13+45.68	14x23 MITERED END SECTION	N/A </tr <tr> <td>S-107</td> <td>13+75.05</td> <td>14x23 MITERED END SECTION</td> <td>N/A</td> <td>1.01</td> </tr>	S-107	13+75.05	14x23 MITERED END SECTION	N/A	1.01
S-107	13+75.05	14x23 MITERED END SECTION	N/A	1.01				



**INNERARY POINT ROAD AREA  
DRAINAGE IMPROVEMENTS  
SECTION B: GORHAM RD.  
BOB O LINK OUTFALL DITCH PROFILE**

**HAMMOND ENGINEERING, INC.**  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH S STREET  
PENSACOLA, FL 32505  
PHONE: (850) 434-2603 FAX: (850) 434-2650

DESIGNED BY: T. HAMMOND  
CHECKED BY: T. HAMMOND  
DATE: AUGUST 2018

DRAWN BY: T. BERRY  
DATE: AUGUST 2018

PROJECT MANAGER: T. BERRY  
DISTRICT: TWO

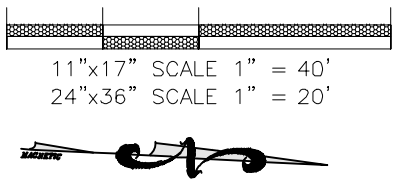
REVISIONS	DATE	APPROVED BY:
1. REVISED SHALE ON BOB O LINK	10/7/16	T. BERRY
2. AS PER ESCAMBA COUNTY BOM COMMENTS	1/4/17	T. BERRY
3. AS PER ESCAMBA COUNTY BOM COMMENTS	2/14/17	T. BERRY
4. INCORPORATED USING SHORLINE AND O&M ACTIONS	6/14/18	T. BERRY
5. AS PER ESCAMBA COUNTY BOM COMMENTS	6/20/18	T. BERRY
6. AS PER ESCAMBA COUNTY 100% COMMENTS	7/13/18	T. BERRY

NUMBER 13-020  
DRAWING NUMBER  
PROJECT NUMBER  
SURVEY NUMBER

RELEASED FOR BID  
PLOT DATE: 8/3/18

SHEET **C12** OF **C22**

PHASE \_\_\_\_\_ REVIEW \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_  
 DATE \_\_\_\_\_  
 ORIGINATOR (RP) \_\_\_\_\_  
 CHECKER (RP) \_\_\_\_\_  
 PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)  
 DATE \_\_\_\_\_  
 ORIGINATOR (GR) \_\_\_\_\_  
 CHECKER (RP) \_\_\_\_\_  
 CHANGE INCORPORATION (Yellow Highlighter)  
 CORRECT (Green Highlighter) Change (Red Pen)  
 DATE \_\_\_\_\_  
 ORIGINATOR VERIFICATION (Blue Highlighter) Correct (Pink Highlighter)  
 DATE \_\_\_\_\_  
 REMARK INCORPORATION (Blue Highlighter)  
 DATE \_\_\_\_\_  
 VERIFICATION, CHECKER (DR) \_\_\_\_\_  
 DATE \_\_\_\_\_

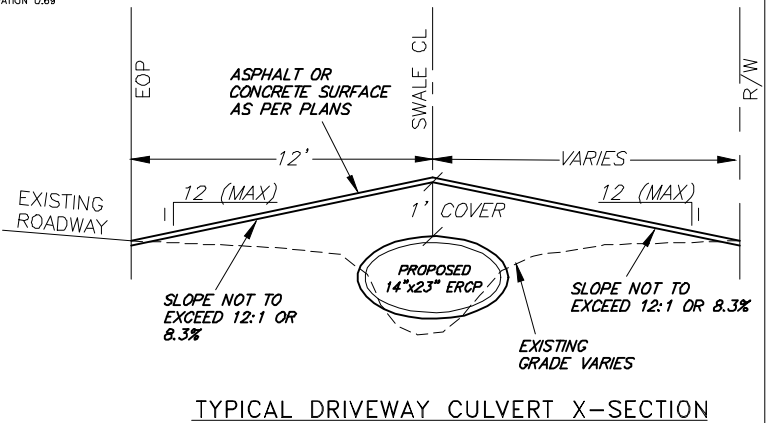
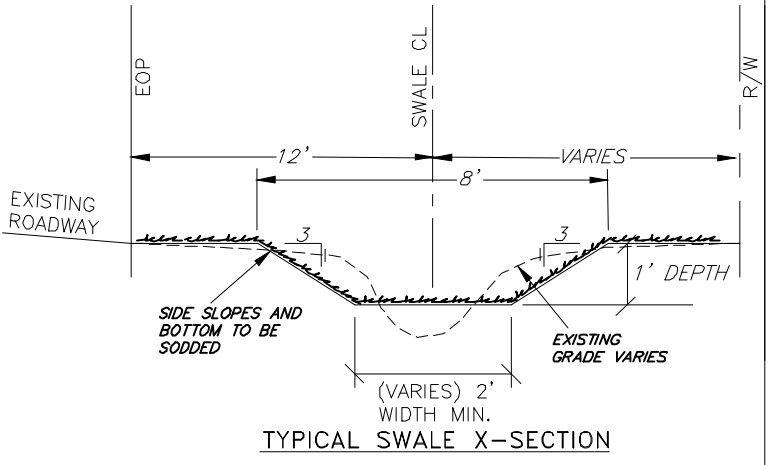
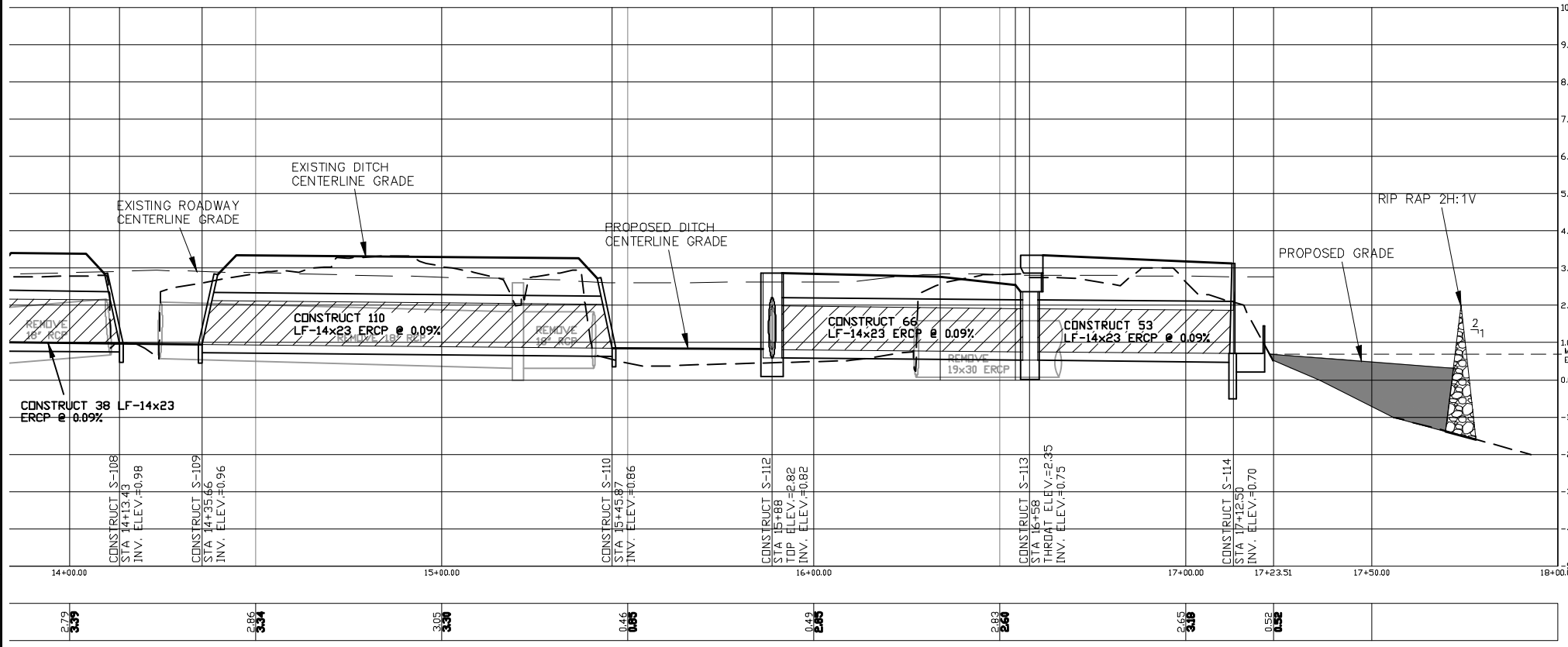
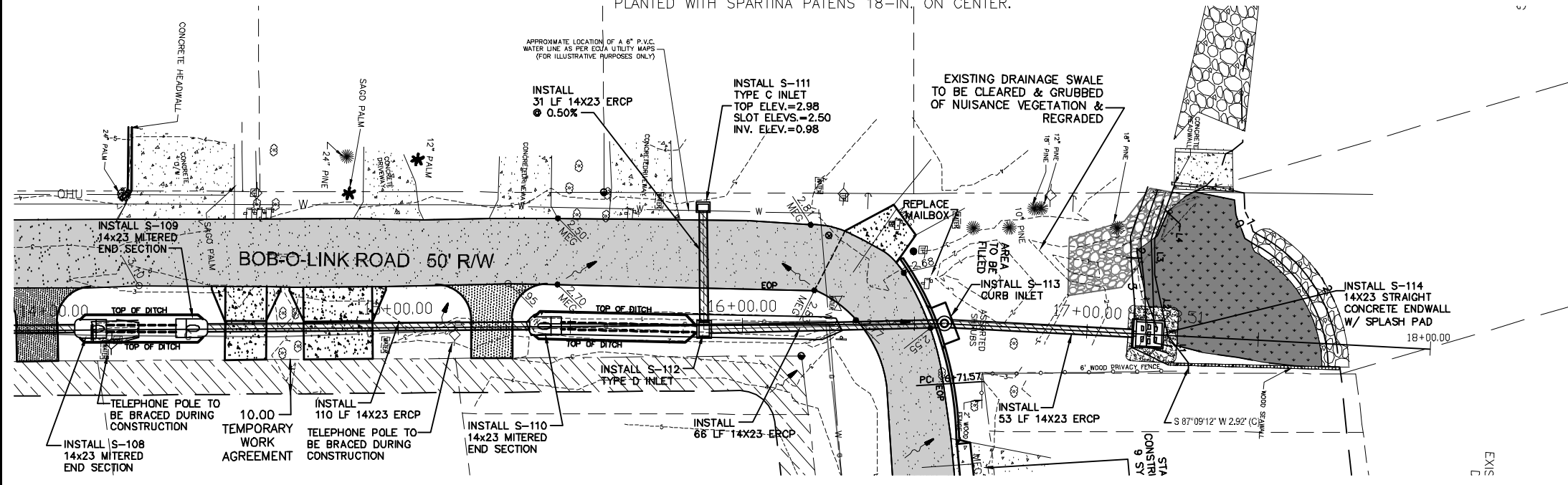


SUBMERGED LANDS TO BE FILLED AND PLANTED WITH EMERGENT WETLAND VEGETATION. 1,704 SQ. FT. AND 84.7 CY. AREA TO BE PLANTED WITH SPARTINA ALTERNIFLORA 18-IN. ON CENTER.

AREA TO BE PLANTED WITH EMERGENT WETLAND VEGETATION. 1,759 SQ. FT. AREAS BELOW THE PLANE OF THE MEAN HIGH WATER LINE TO BE PLANTED WITH SPARTINA ALTERNIFLORA 18-IN. ON CENTER AND AREAS ABOVE THE MEAN HIGH WATER LINE TO BE PLANTED WITH SPARTINA PATENS 18-IN. ON CENTER.

DRAINAGE STRUCTURES				
STRUCTURE #	DITCH STATION	DESCRIPTION	TOP ELEV.	FLOWLINE ELEV.
S-108	14+13.43	14x23 MITERED END SECTION	N/A	0.98
S-109	14+35.66	14x23 MITERED END SECTION	N/A	0.96
S-110	15+45.87	14x23 MITERED END SECTION	N/A	0.86
S-111	15+88.00, 33' LT	FDDT TYPE C INLET W/ SLOTS (N&S)	2.98 (2.50 SLOTS)	0.98
S-112	15+88.00	TYPE D INLET W/ SLOT (S)	2.82 (1.5 SLOT)	0.82
S-113	16+58.66	TYPE A CURB INLET	3.35	0.75
S-114	17+12.50	STRAIGHT CONC. ENDWALL W/ SPLASH PAD	N/A	0.70

NOTE:  
 SEE SHEET C16 FOR NOTE REGARDING LIVING SHORELINE.



INNERARY POINT ROAD AREA  
 DRAINAGE IMPROVEMENTS  
 SECTION B: GORHAM RD.  
 BOB O LINK OFFFALL DITCH PROFILE



HAMMOND ENGINEERING, INC.  
 FLORIDA AUTHORIZATION NO. 9130  
 ALABAMA AUTHORIZATION NO. 3277  
 3802 NORTH S STREET  
 PENSACOLA, FL 32505  
 PHONE: (850) 434-2603 FAX: (850) 434-2650

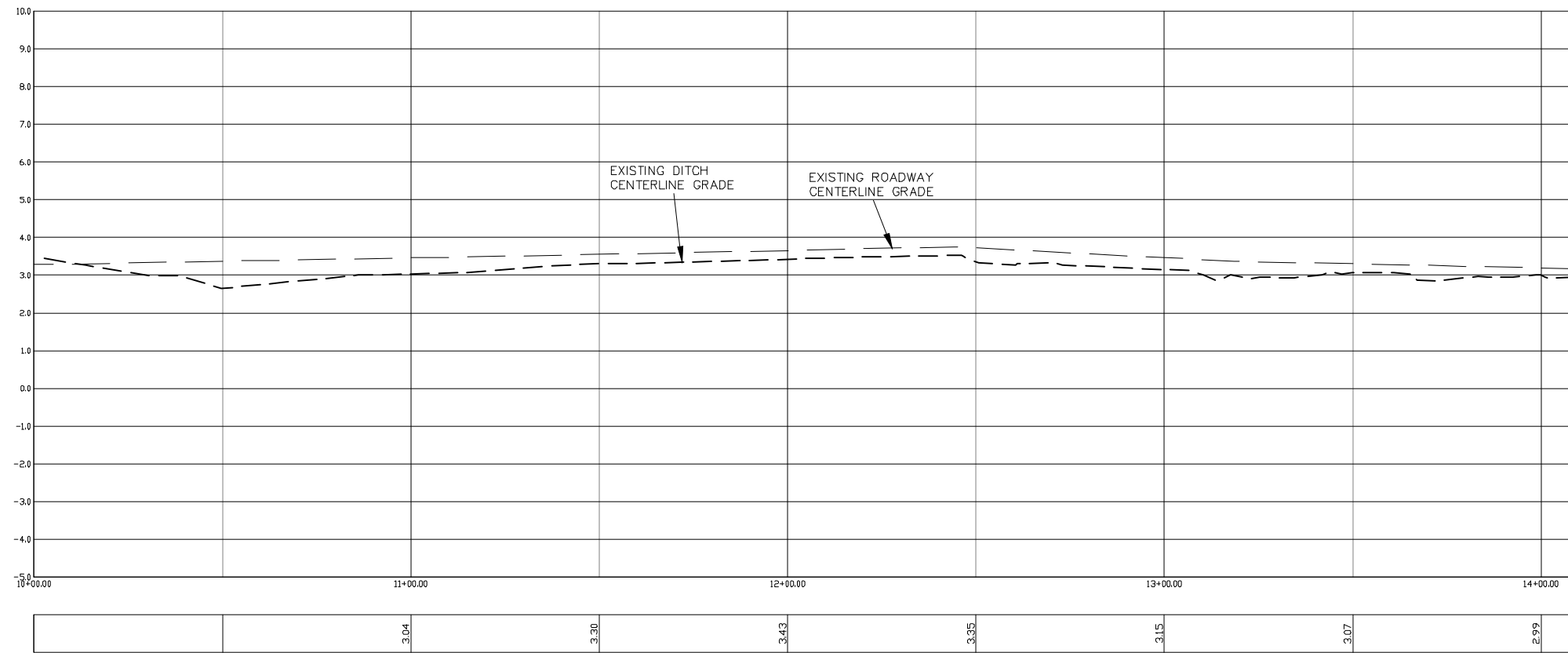
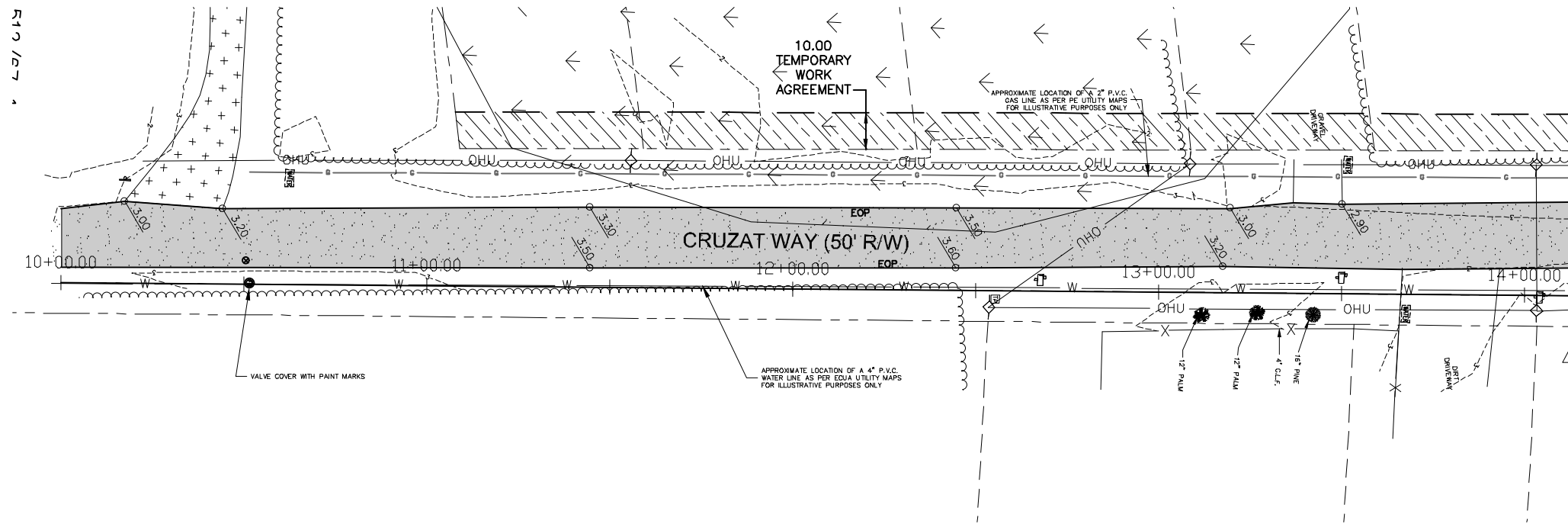
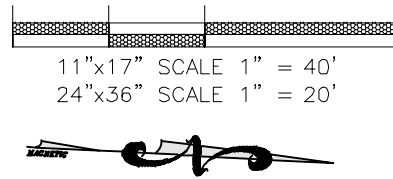
DESIGNED BY: T. HAMMOND  
 CHECKED BY: T. HAMMOND  
 PROJECT MANAGER: T. BERRY  
 DATE: AUGUST 2018  
 DISTRICT: TWO


NUMBER	REVISIONS	DATE	APPROVED BY:
1.	REVISED SWALE ON BOB O LINK	10/7/16	T. BERRY
2.	AS PER ESCAMBA COUNTY B&E COMMENTS	1/4/17	T. BERRY
3.	AS PER ESCAMBA COUNTY B&E COMMENTS	2/14/17	T. BERRY
4.	INCORPORATED USING SHOULDER AND CH ADDITIONS	6/14/18	T. BERRY
5.	AS PER ESCAMBA COUNTY B&E COMMENTS	6/29/18	T. BERRY
6.	AS PER ESCAMBA COUNTY 100% COMMENTS	7/13/18	T. BERRY

DRAWING NUMBER: 13-020  
 SURVEY NUMBER: \_\_\_\_\_  
 SHEET C13 OF C22

RELEASED FOR BID  
 PLOT DATE: 8/3/18

PHASE	REVIEW	DATE	ORIGINATOR (RP)	ORIGINATOR (GR)	ORIGINATOR (CR)	ORIGINATOR (DR)	DATE
SIGNATURE:		DATE	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)	CHECKER (RP)	(Red Pen X-Out to Disagree or Remark)	VERIFICATION, CHECKER (DR)	DATE
		DATE	CHANGE INCORPORATION	(Yellow Highlighter)		REMARK INCORPORATION	DATE
		DATE				ORIGINATOR VERIFICATION	DATE
		DATE				Correct (Blue Highlighter)	DATE
		DATE				Correct (Pink Highlighter)	DATE





**INNERARY POINT ROAD AREA  
DRAINAGE IMPROVEMENTS  
SECTION B: GORHAM RD.  
CRUZAT OUTFALL DITCH PROFILE**

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**HAMMOND ENGINEERING, INC.**  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH S STREET  
PENSACOLA, FL 32505  
PHONE: (850) 434-2603 FAX: (850) 434-2650

DESIGNED BY: T. HAMMOND  
CHECKED BY: T. HAMMOND  
PROJECT MANAGER: T. HAMMOND  
DISTRICT: TWO  
DATE: AUGUST 2018

---

NUMBER	REVISIONS	DATE	APPROVED BY:
1.	REVISED SINGLE ON BOB O LINK	10/7/16	T. BERRY
2.	AS PER ESCAMBIA COUNTY BOE COMMENTS	1/2/17	T. BERRY
3.	AS PER ESCAMBIA COUNTY BOE COMMENTS	2/14/17	T. BERRY
4.	INCORPORATED USING SHORLENE AND JAH ACTIONS	6/14/18	T. BERRY
5.	AS PER ESCAMBIA COUNTY BOE COMMENTS	6/20/18	T. BERRY
6.	AS PER ESCAMBIA COUNTY 100% COMMENTS	7/13/18	T. BERRY

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DRAWING NUMBER: **13-020**

PROJECT NUMBER:

SURVEY NUMBER:

RELEASED FOR BID  
PLOT DATE: 8/3/18

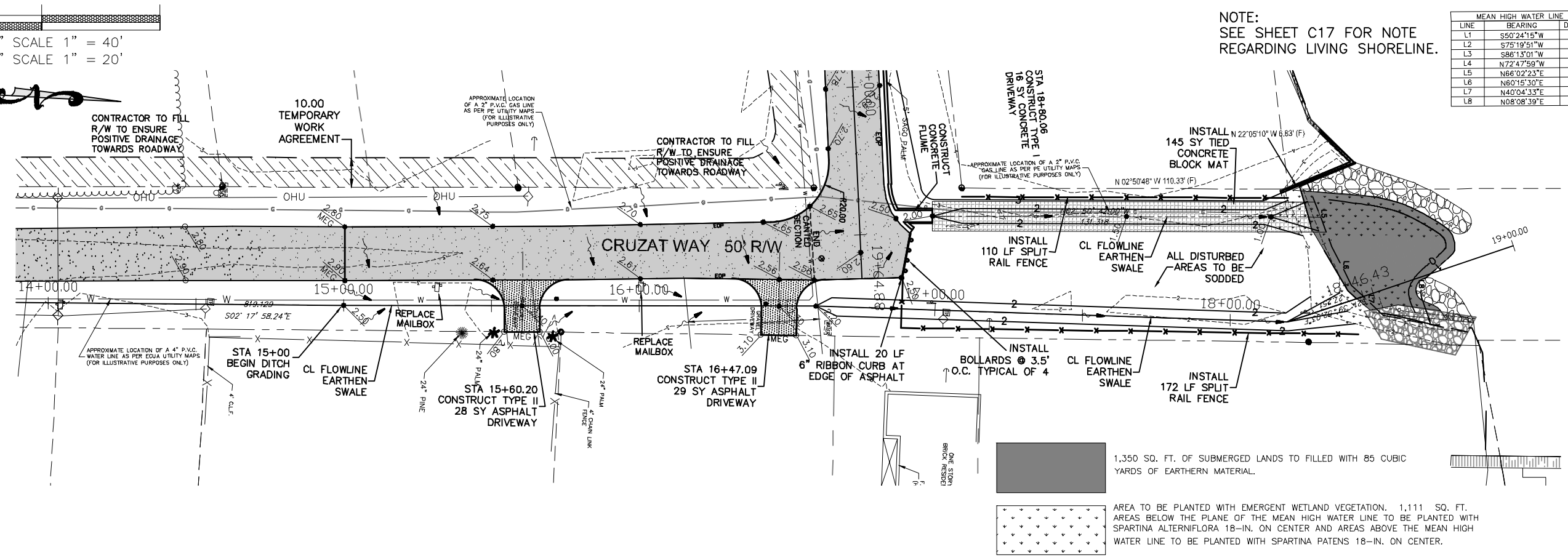
SHEET **C14** OF **C22**



PHASE \_\_\_\_\_ REVIEW \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_

ORIGINATOR (RP) \_\_\_\_\_ DATE \_\_\_\_\_  
 PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP) \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKER (RP) \_\_\_\_\_ DATE \_\_\_\_\_  
 ORIGINATOR (GR) Correct (Green Highlighter) Change (Red Pen) \_\_\_\_\_ DATE \_\_\_\_\_  
 CHANGE INCORPORATION (Yellow Highlighter) \_\_\_\_\_ DATE \_\_\_\_\_  
 VERIFICATION, CHECKER (DR) (Blue Highlighter) \_\_\_\_\_ DATE \_\_\_\_\_  
 REMARK INCORPORATION (Blue Highlighter) \_\_\_\_\_ DATE \_\_\_\_\_  
 ORIGINATOR VERIFICATION Correct (Pink Highlighter) \_\_\_\_\_ DATE \_\_\_\_\_

11"x17" SCALE 1" = 40'  
 24"x36" SCALE 1" = 20'

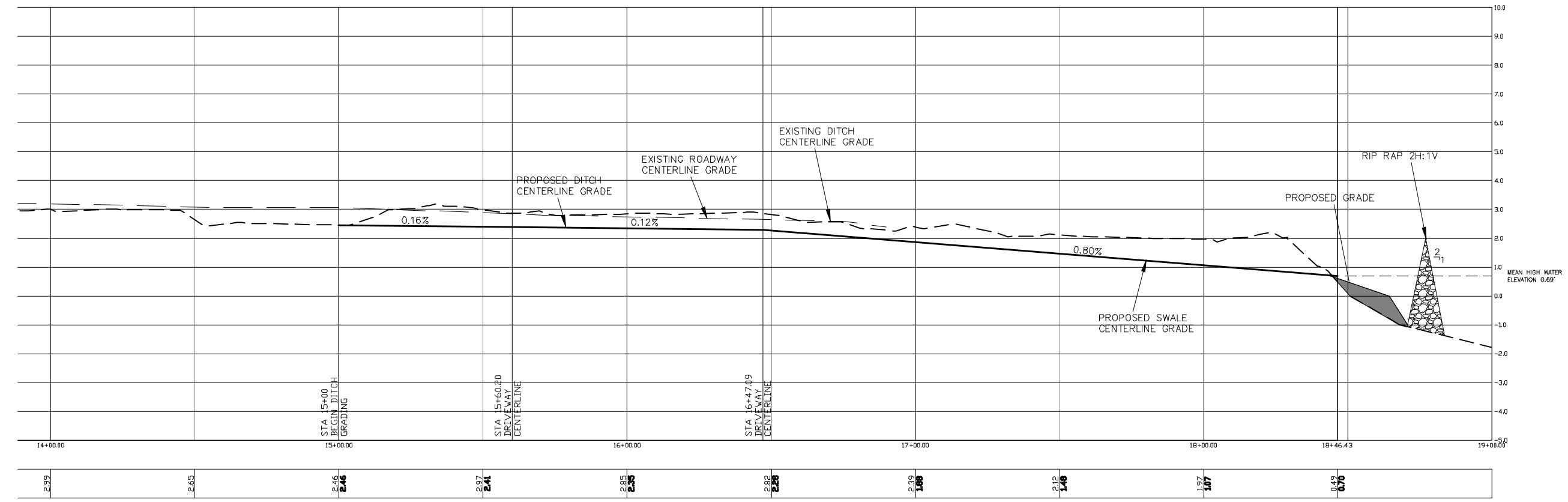


NOTE:  
 SEE SHEET C17 FOR NOTE  
 REGARDING LIVING SHORELINE.

LINE	BEARING	DISTANCE
L1	S50°24'15\"/>	

1,350 SQ. FT. OF SUBMERGED LANDS TO FILLED WITH 85 CUBIC YARDS OF EARTHEN MATERIAL.

AREA TO BE PLANTED WITH EMERGENT WETLAND VEGETATION. 1,111 SQ. FT. AREAS BELOW THE PLANE OF THE MEAN HIGH WATER LINE TO BE PLANTED WITH SPARTINA ALTERNIFLORA 18-IN. ON CENTER AND AREAS ABOVE THE MEAN HIGH WATER LINE TO BE PLANTED WITH SPARTINA PATENS 18-IN. ON CENTER.



**INNERARY POINT ROAD AREA  
 DRAINAGE IMPROVEMENTS  
 SECTION B: GORHAM RD.  
 CRUZAT OUTFALL DITCH PROFILE**

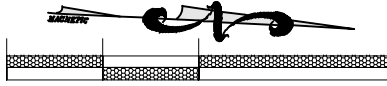


**HAMMOND ENGINEERING, INC.**  
 FLORIDA AUTHORIZATION NO. 9130  
 ALABAMA AUTHORIZATION NO. 3277  
 3802 NORTH 'S' STREET  
 PENSACOLA, FL 32505  
 PHONE: (850) 434-2603 FAX: (850) 434-2650

DESIGNED BY: T. HAMMOND  
 CHECKED BY: T. HAMMOND  
 DRAWN BY: T. BERRY  
 DATE: AUGUST 2018

NUMBER	REVISIONS	DATE	APPROVED BY
1.	REVISED SHALE ON BOB O LINK	10/7/16	T. BERRY
2.	AS PER ESCAMBIA COUNTY BOX COMMENTS	1/2/17	T. BERRY
3.	AS PER ESCAMBIA COUNTY BOX COMMENTS	2/14/17	T. BERRY
4.	INCORPORATED USING SHORELINE AND O&M ADDITIONS	6/14/18	T. BERRY
5.	AS PER ESCAMBIA COUNTY BOX COMMENTS	6/20/18	T. BERRY
6.	AS PER ESCAMBIA COUNTY 100% COMMENTS	7/13/18	T. BERRY

DRAWING NUMBER: **13-020**  
 PROJECT NUMBER: \_\_\_\_\_  
 SURVEY NUMBER: \_\_\_\_\_



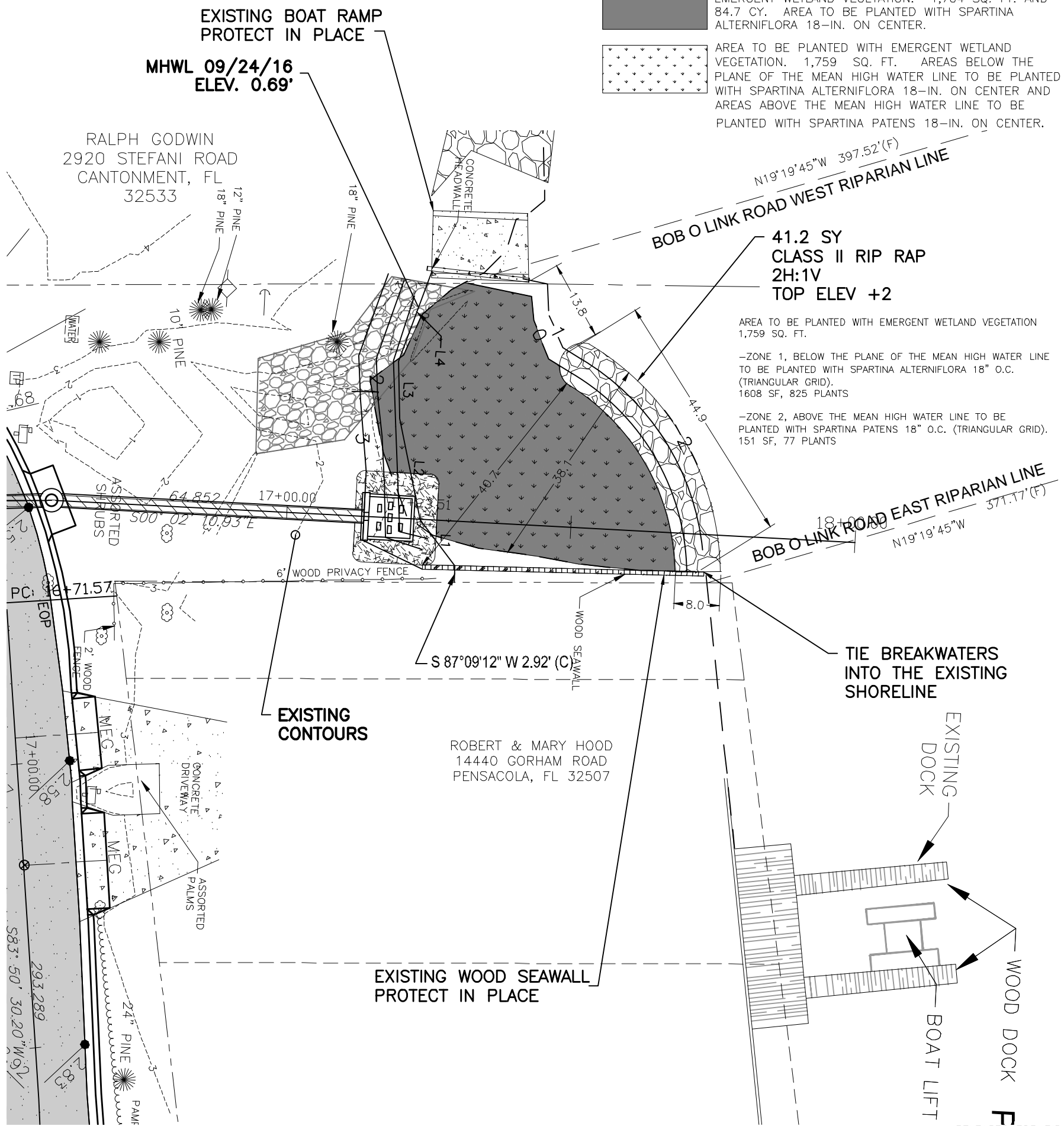
11"x17" SCALE 1" = 20'  
24"x36" SCALE 1" = 10'

LINE	BEARING	DISTANCE
L1	S50°24'15"W	10.07
L2	S75°19'51"W	18.11
L3	S86°13'01"W	10.19
L4	N72°47'59"W	16.89
L5	N66°02'23"E	23.30
L6	N60°15'30"E	14.74
L7	N40°04'33"E	14.71
L8	N08°08'39"E	29.21

NOTES:

- Breakwaters to be class II natural limestone boulders sourced in Panhandle or North Florida.
- No more than 10% of the stone will have a diameter greater than sixteen (16) inches; no more than 50% of the stone will have a diameter less than twelve (12) inches; and no more than 10% of the stone will have a diameter of less than six (6) inches.
- All construction activities shall be completed in accordance with applicable State and Federal permits. Construction activities associated with the living shoreline component of the project have been specifically authorized by the U.S. Army Corps of Engineers under permit number SAJ-2018-00236, and Florida Department of Environmental Protection (FDEP) under permit number 0348405-003-El. Contactor shall read and understand all permit conditions prior to commencement of work.
- Sand used for the construction of the living shoreline component of this project shall meet the same standards for color and quality as required for placement on local barrier islands. See Escambia County Land Development Code (LDC) Design Standards Manual (DSM) Chapter 2, Article 1-5 for sand specifications. Contactor shall provide a sample of the sand to be used for the project to the Engineer of Record and the County for approval prior to delivery to the site.
- Best management practices for erosion control shall be implemented prior to construction commencement and shall be maintained at all times during construction to prevent siltation and turbid discharges in excess of State water quality standards. All work contributing to a water quality violation shall immediately cease if turbidity levels surrounding the project site are determined to exceed 29 NTUs above background. Contactor shall modify work procedures in accordance with permit condition to eliminate any existing and prevent future surface water quality violation.
- Contractor shall provide *Spartina alterniflora* (smooth cordgrass) and *Spartina patens* (saltmeadow cordgrass) herbaceous plugs, or approved equals. All plugs shall have a minimum diameter of 2 inches. All plant stock provided by the contractor shall exhibit sufficient top growth to ensure viability at the specified water depth or location. Plants shall also conform to Florida No. 1 as to health and vitality; condition of foliage and root system; freedom from pests, noxious weeds, and mechanical damage; and the accepted normal foliage and shape of the species. All vegetation provided by the contractor shall be inspected by Escambia County prior to installation. Escambia County reserves the right to reject plants that do not meet minimum specifications.
- Plant material shall be container grown or bare root stock. Contactor shall provide native Florida nursery grown stock supplied by a Florida native plant supplier or stock legally collected from a State approved collection site.
- Plants should be installed immediately following delivery to the project site. If planting is delayed for more than three (3) hours after delivery to the project site, plantings are to be placed in the shade and protected from adverse weather and mechanical damage. Roots are to be kept moist by covering with burlap, mulch, or other acceptable means of retaining moisture. Container grown stock shall not be removed from containers until planting time. All plant stock shall be safeguarded and kept sufficiently moist from the nursery or time of harvest until plants are transported to the project site and installed.
- Contractor shall keep the project site clean and free of accumulated surplus and discarded plant material during the duration of the project.
- Plants shall be installed by contractor under the most optimal conditions (e.g. season, weather, etc.) allowed by the set construction schedule. Contactor shall coordinate proposed planting schedule with Engineer of Record and County at project onset.
- Vegetation installed by the contractor shall be subject to the same construction warranty as the rest of the project. County may require the contractor to replant required vegetation at any point during the warranty period if the survivorship of any species is determined to be less than 85%.
- Breakwaters shall be constructed of unconsolidated limestone boulders, or approved equal. Boulders used for breakwaters shall be meet specifications for class II riprap. Limestone boulders shall be washed, as necessary, prior to deployment to prevent turbid discharge by removal of associated fines.

DATE	REVISION	ORIGINATOR (RP)	PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP)	DATE	ORIGINATOR (GR)	Correct (Green Highlighter) Change (Red Pen)	DATE	VERIFICATION, CHECKER (DR)	REMARK INCORPORATION (Blue Highlighter)	DATE	ORIGINATOR VERIFICATION (Pink Highlighter)	Correct (Pink Highlighter)



**SUBMERGED LANDS TO BE FILLED AND PLANTED WITH EMERGENT WETLAND VEGETATION. 1,704 SQ. FT. AND 84.7 CY. AREA TO BE PLANTED WITH SPARTINA ALTERNIFLORA 18-IN. ON CENTER.**

**AREA TO BE PLANTED WITH EMERGENT WETLAND VEGETATION. 1,759 SQ. FT. AREAS BELOW THE PLANE OF THE MEAN HIGH WATER LINE TO BE PLANTED WITH SPARTINA ALTERNIFLORA 18-IN. ON CENTER AND AREAS ABOVE THE MEAN HIGH WATER LINE TO BE PLANTED WITH SPARTINA PATENS 18-IN. ON CENTER.**

**41.2 SY CLASS II RIP RAP 2H:1V TOP ELEV +2**

AREA TO BE PLANTED WITH EMERGENT WETLAND VEGETATION 1,759 SQ. FT.

-ZONE 1, BELOW THE PLANE OF THE MEAN HIGH WATER LINE TO BE PLANTED WITH SPARTINA ALTERNIFLORA 18" O.C. (TRIANGULAR GRID). 1608 SF, 825 PLANTS

-ZONE 2, ABOVE THE MEAN HIGH WATER LINE TO BE PLANTED WITH SPARTINA PATENS 18" O.C. (TRIANGULAR GRID). 151 SF, 77 PLANTS

**INNERARY POINT ROAD AREA DRAINAGE IMPROVEMENTS SECTION B: GORHAM RD. BOB O LINK LIVING SHORELINE**

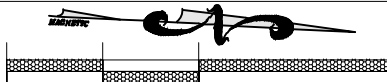
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**HAMMOND ENGINEERING, INC.**  
 FLORIDA AUTHORIZATION NO. 9130  
 ALABAMA AUTHORIZATION NO. 3277  
 3802 NORTH S STREET  
 PENSACOLA, FL 32505  
 PHONE: (850) 434-2603 FAX: (850) 434-2650

DESIGNED BY: T. HAMMOND  
 CHECKED BY: T. HAMMOND  
 PROJECT MANAGER: T. BERRY  
 DRAWN BY: T. BERRY  
 DATE: AUGUST 2018

REVISIONS	DATE	APPROVED BY
1. REVISED SHALE ON BOB O LINK	10/7/16	T. BERRY
2. AS PER ESCAMBIA COUNTY BIR COMMENTS	1/4/17	T. BERRY
3. AS PER ESCAMBIA COUNTY BIR COMMENTS	2/14/17	T. BERRY
4. INCORPORATED LIVING SHORELINE AND DAP ADDITIONS	6/14/18	T. BERRY
5. AS PER ESCAMBIA COUNTY BIR COMMENTS	6/29/18	T. BERRY
6. AS PER ESCAMBIA COUNTY 100% COMMENTS	7/13/18	T. BERRY

DRAWING NUMBER: **13-020**  
 PROJECT NUMBER:  
 SURVEY NUMBER:  
 SHEET **C16** OF **C22**

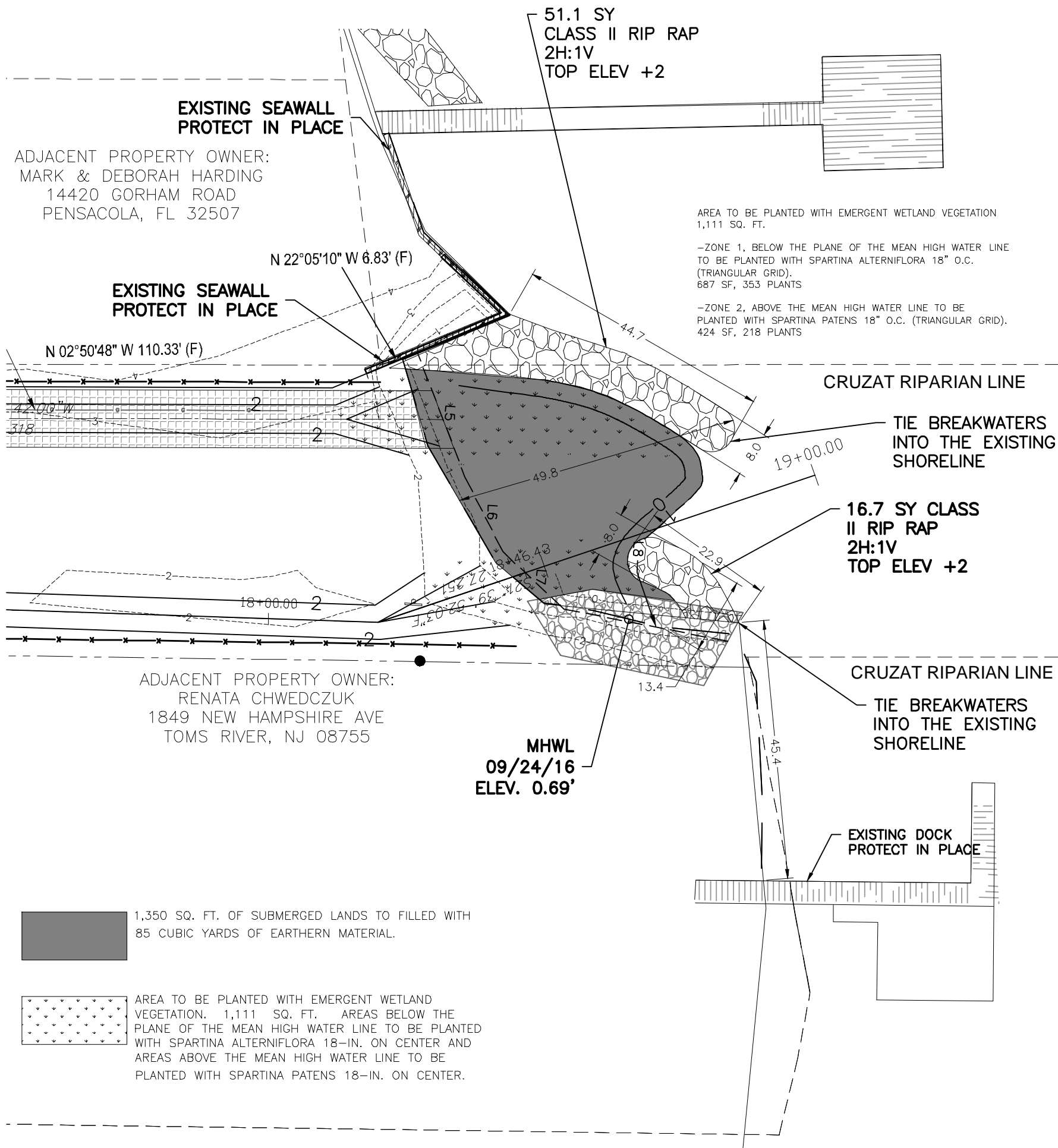


11"x17" SCALE 1" = 20'  
24"x36" SCALE 1" = 10'

LINE	BEARING	DISTANCE
L1	S50°24'15"W	10.07
L2	S75°19'51"W	18.11
L3	S86°13'01"W	10.19
L4	N72°47'59"W	16.89
L5	N66°02'23"E	23.30
L6	N60°15'30"E	14.74
L7	N40°04'33"E	14.71
L8	N08°08'39"E	29.21

NOTES:

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- Contractor shall provide *Spartina alterniflora* (smooth cordgrass) and *Spartina patens* (saltmeadow cordgrass) herbaceous plugs, or approved equals. All plugs shall have a minimum diameter of 2 inches. All plant stock provided by the contractor shall exhibit sufficient top growth to ensure viability at the specified water depth or location. Plants shall also conform to Florida No. 1 as to health and vitality; condition of foliage and root system; freedom from pests, noxious weeds, and mechanical damage; and the accepted normal foliage and shape of the species. All vegetation provided by the contractor shall be inspected by Escambia County prior to installation. Escambia County reserves the right to reject plants that do not meet minimum specifications.
- Plant material shall be container grown or bare root stock. Contactor shall provide native Florida nursery grown stock supplied by a Florida native plant supplier or stock legally collected from a State approved collection site.
- Plants should be installed immediately following delivery to the project site. If planting is delayed for more than three (3) hours after delivery to the project site, plantings are to be placed in the shade and protected from adverse weather and mechanical damage. Roots are to be kept moist by covering with burlap, mulch, or other acceptable means of retaining moisture. Container grown stock shall not be removed from containers until planting time. All plant stock shall be safeguarded and kept sufficiently moist from the nursery or time of harvest until plants are transported to the project site and installed.
- Contractor shall keep the project site clean and free of accumulated surplus and discarded plant material during the duration of the project.
- Plants shall be installed by contractor under the most optimal conditions (e.g. season, weather, etc.) allowed by the set construction schedule. Contactor shall coordinate proposed planting schedule with Engineer of Record and County at project onset.
- Vegetation installed by the contractor shall be subject to the same construction warranty as the rest of the project. County may require the contractor to replant required vegetation at any point during the warranty period if the survivorship of any species is determined to be less than 85%.
- Breakwaters shall be constructed of unconsolidated limestone boulders, or approved equal. Boulders used for breakwaters shall meet specifications for class II riprap. Limestone boulders shall be washed, as necessary, prior to deployment to prevent turbid discharge by removal of associated fines.



**INNERARY POINT ROAD AREA  
DRAINAGE IMPROVEMENTS  
SECTION B: GORHAM RD.  
CRUZAT LIVING SHORELINE**



**HAMMOND ENGINEERING, INC.**  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH S STREET  
PENSACOLA, FL 32505  
PHONE: (850) 434-2603 FAX: (850) 434-2650

DESIGNED BY: T. HAMMOND  
CHECKED BY: T. HAMMOND  
PROJECT MANAGER: T. BERRY  
DATE: AUGUST 2018

REVISIONS	DATE	APPROVED BY
1. REVISED SHALE ON BOB O LINK	10/7/16	T. BERRY
2. AS PER ESCAMBIA COUNTY BOE COMMENTS	1/4/17	T. BERRY
3. AS PER ESCAMBIA COUNTY BOE COMMENTS	2/14/17	T. BERRY
4. INCORPORATED LIVING SHORELINE AND DCA ADDITIONS	6/14/18	T. BERRY
5. AS PER ESCAMBIA COUNTY BOE COMMENTS	6/29/18	T. BERRY
6. AS PER ESCAMBIA COUNTY BOE COMMENTS	7/13/18	T. BERRY

PROJECT NUMBER: **13-020**  
SURVEY NUMBER:  
SHEET **C17** OF **C22**



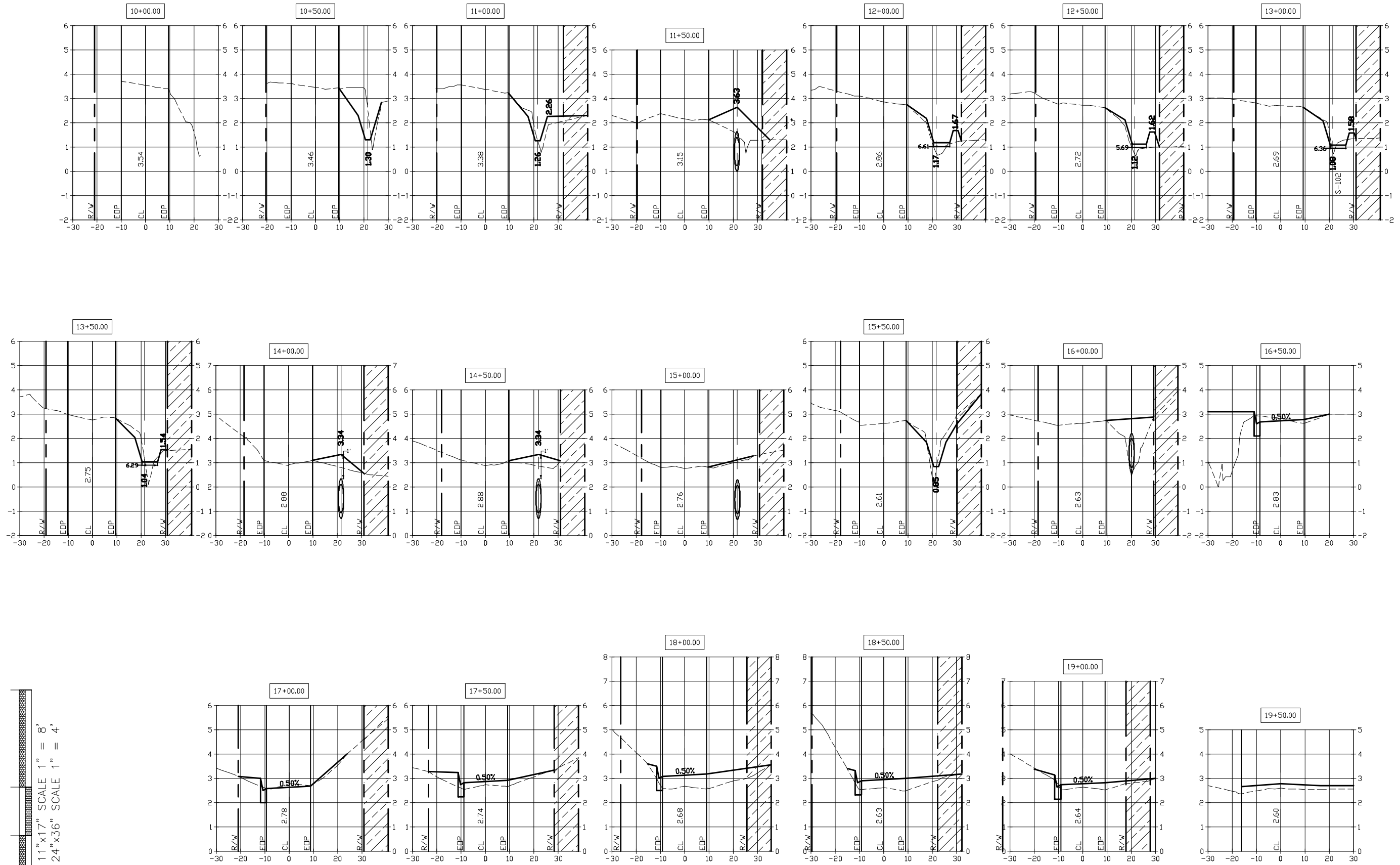
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SIGNATURE:			CHECKER (RP)	(Red Pen X-Out to Disagree or Remark)	DATE	CHECKER (OR)	(Yellow Highlighter)	DATE	REMARK INCORPORATION	(Blue Highlighter)
			CHANGE INCORPORATION		DATE	ORIGINATOR VERIFICATION	Correct (Pink Highlighter)	DATE		

11"x17" SCALE 1" = 40'  
24"x36" SCALE 1" = 20'

DENOTES R/W LINE ———  
DENOTES ROAD CL ———  
DENOTES EX. GRADE - - - - -

**BOB-O-LINK/GORHAM RD**

DENOTES 10.0' TEMPORARY WORK AGREEMENT  
NEEDED TO FILL AREA TO INSURE POSITIVE  
SLOPE TOWARDS ROADWAY.



11"x17" SCALE 1" = 8'  
24"x36" SCALE 1" = 4'

**INNERARY POINT ROAD AREA  
DRAINAGE IMPROVEMENTS  
SECTION B: GORHAM RD.**

**CROSS SECTIONS**



**HAMMOND ENGINEERING, INC.**  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH 'S' STREET  
PENSACOLA, FL 32505  
PHONE: (850) 434-2603 FAX: (850) 434-2650

DESIGNED BY:	T. HAMMOND	REG. P.A. ENG. NO.:	54574
CHECKED BY:	T. HAMMOND	DATE:	AUGUST 2018
DRAWN BY:	T. BERRY	DISTRICT:	TWO
PROJECT MANAGER:	T. BERRY	SIGNATURE:	

NUMBER	REVISIONS	DATE	APPROVED BY:
1.	REVISED SHALE ON BOB O LINK	10/7/16	T. BERRY
2.	AS PER ESCAMBIA COUNTY BOX COMMENTS	1/4/17	T. BERRY
3.	AS PER ESCAMBIA COUNTY BOX COMMENTS	2/14/17	T. BERRY
4.	INCORPORATED USING SHORLINE AND CHA ADJUSTIONS	6/14/18	T. BERRY
5.	AS PER ESCAMBIA COUNTY BOX COMMENTS	6/29/18	T. BERRY
6.	AS PER ESCAMBIA COUNTY 100% COMMENTS	7/13/18	T. BERRY

DRAWING NUMBER: **13-020**  
PROJECT NUMBER:  
SURVEY NUMBER:  
SHEET **C18 of C22**

RELEASED FOR BID  
PLOT DATE: 8/3/18

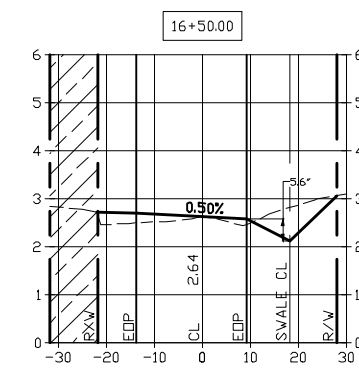
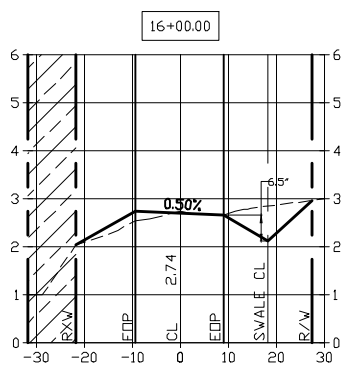
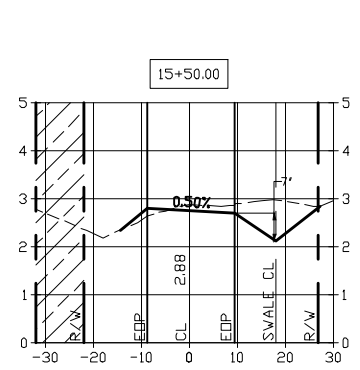
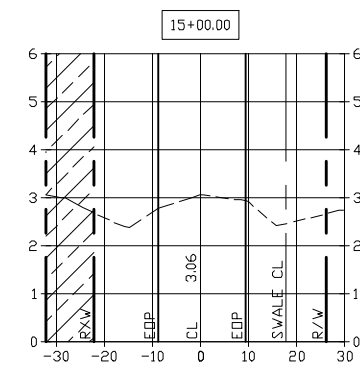
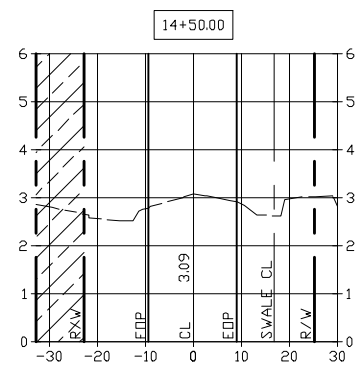
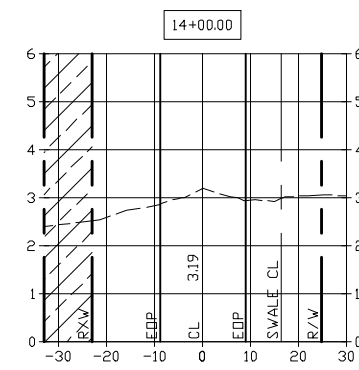
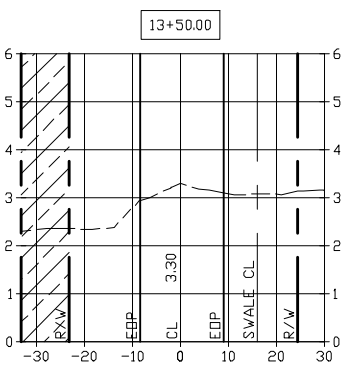
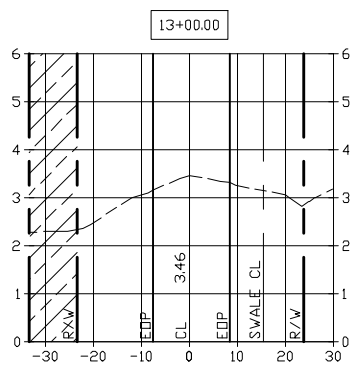
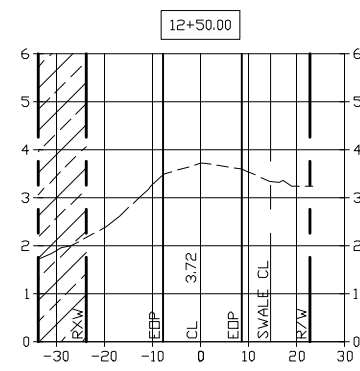
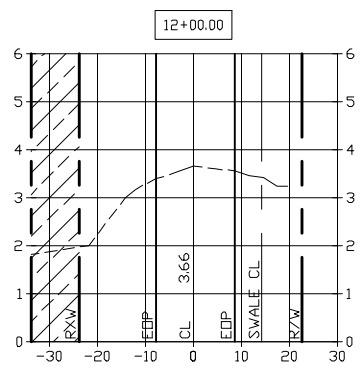
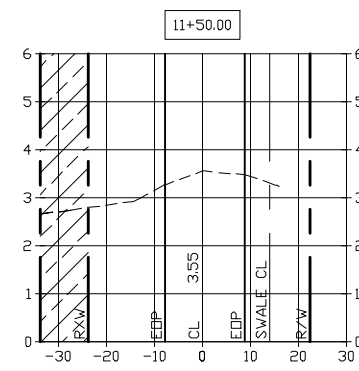
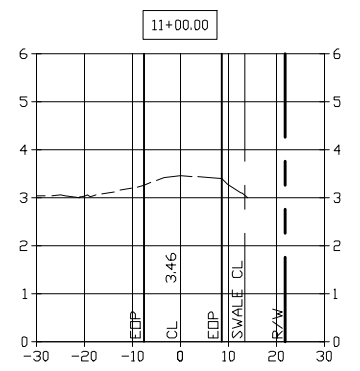
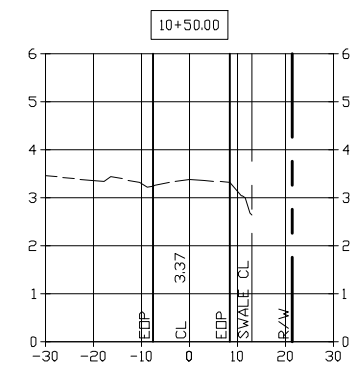
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SIGNATURE:		CHECKER (RP)	DATE	CHECKER (GR)	(Red Pen X-Out to Disagree or Remark)	DATE	REMARK INCORPORATION	(Blue Highlighter)	DATE
		CHANGE INCORPORATION	DATE		(Yellow Highlighter)	DATE	ORIGINATOR VERIFICATION	Correct (Pink Highlighter)	DATE

11"x17" SCALE 1" = 40'  
24"x36" SCALE 1" = 20'

DENOTES R/W LINE ---  
DENOTES ROAD CL - - -  
DENOTES EX. GRADE - - -

**CRUZAT WAY**

DENOTES 10.0' TEMPORARY WORK AGREEMENT  
NEEDED TO FILL AREA TO INSURE POSITIVE  
SLOPE TOWARDS ROADWAY.



11"x17" SCALE 1" = 8'  
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**INNERARY POINT ROAD AREA  
DRAINAGE IMPROVEMENTS  
SECTION B: GORHAM RD.  
CROSS SECTIONS**



**HAMMOND ENGINEERING, INC.**  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH 'S' STREET  
PENSACOLA, FL 32505  
PHONE: (850) 434-2603 FAX: (850) 434-2650

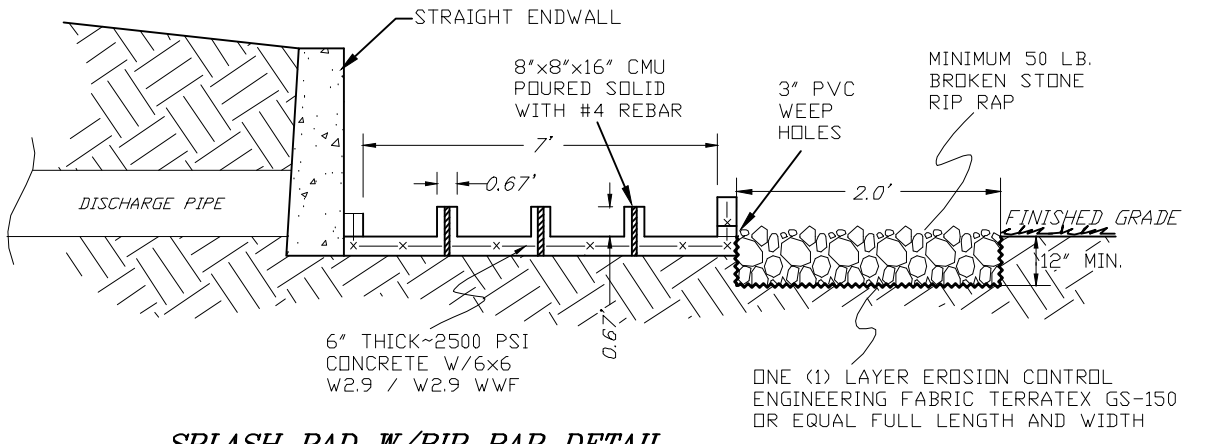
DESIGNED BY: T. HAMMOND  
CHECKED BY: T. HAMMOND  
PROJECT MANAGER: T. HAMMOND  
DRAWN BY: T. BERRY  
DATE: AUGUST 2018

REG. P.A. ENG. NO. 54574  
DISTRICT: T. HAMMOND  
SIGNATURE: T. BERRY

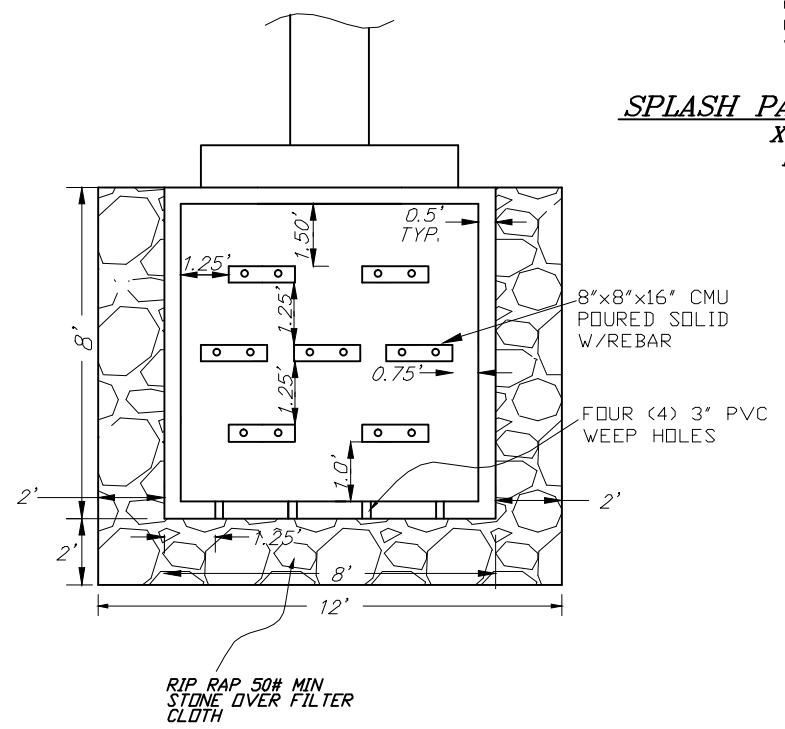
NUMBER	REVISIONS	DATE	APPROVED BY:
1.	REVISED SWALE ON BOB O LINK	10/7/16	T. BERRY
2.	AS PER ESCAMBIA COUNTY BOE COMMENTS	1/4/17	T. BERRY
3.	AS PER ESCAMBIA COUNTY BOE COMMENTS	2/14/17	T. BERRY
4.	INCORPORATED USING SHORLINE AND O&M ACTIONS	6/14/18	T. BERRY
5.	AS PER ESCAMBIA COUNTY BOE COMMENTS	6/20/18	T. BERRY
6.	AS PER ESCAMBIA COUNTY 100% COMMENTS	7/13/18	T. BERRY

PROJECT NUMBER: **13-020**  
SURVEY NUMBER:

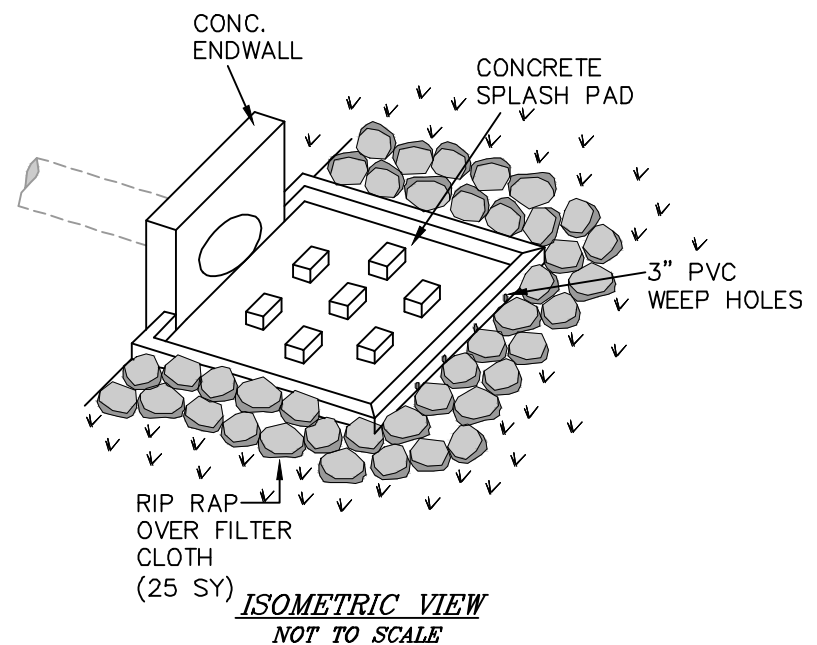
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DATE	PHASE	DATE	CHECKER (RP)	DATE	ORIGINATOR VERIFICATION
DATE	SIGNATURE:	DATE	CHECKER (RP)	DATE	CORRECT (PINK HIGHLIGHTER)
DATE		DATE	CHECKER (RP)	DATE	CORRECT (RED PEN X-OUT TO DISAGREE OR REMARK)
DATE		DATE	CHECKER (RP)	DATE	CORRECT (YELLOW HIGHLIGHTER)



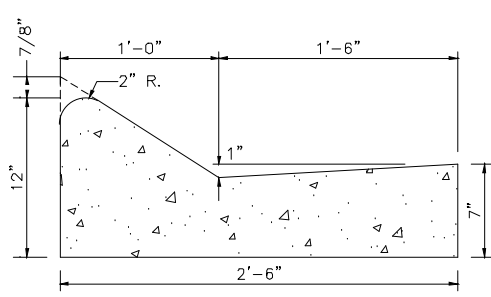
**SPLASH PAD W/RIP RAP DETAIL  
X-SECTION VIEW  
NOT TO SCALE**



**SPLASH PAD W/RIP RAP DETAIL  
PLAN VIEW  
NOT TO SCALE**

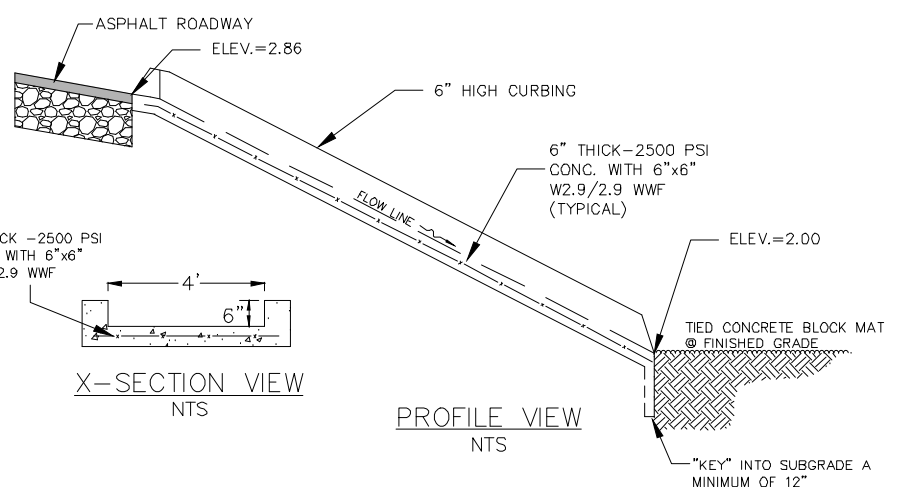


**ISOMETRIC VIEW  
NOT TO SCALE**

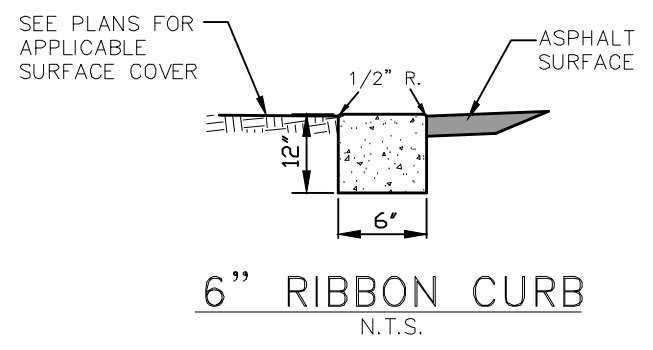


**TYPE 'B' CURB & GUTTER  
FOR CURB MACHINE  
NOT TO SCALE**

- NOTE:**
- ALL CURB TO HAVE DUMMY JOINT AT 10' ON CENTER. MIN. DEPTH OF JOINT TO BE 2".
  - EXPANSION JOINTS ARE TO BE 60' ON CENTER. TYPICAL FOR ALL CURB.
  - CONCRETE TO BE 3000 PSI.



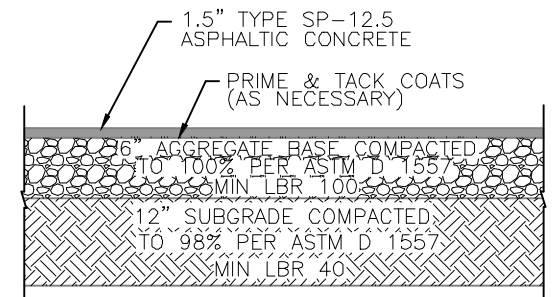
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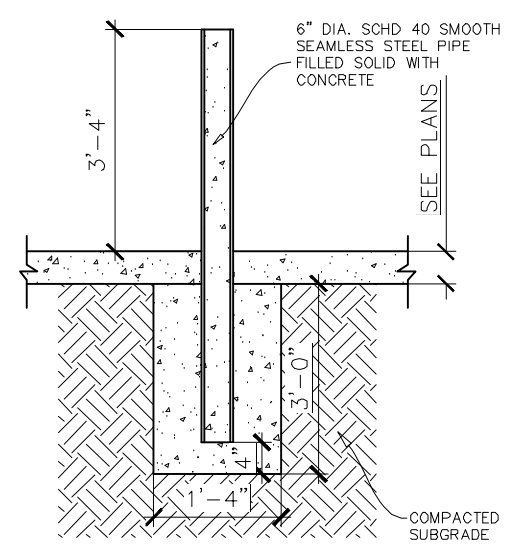
**6" RIBBON CURB  
N.T.S.**

- NOTE:**
- ALL CURB TO HAVE DUMMY JOINT AT 15' ON CENTER & AT ALL PC'S & PT'S. MIN. DEPTH OF JOINT TO BE 2".
  - EXPANSION JOINTS ARE TO BE 60' ON CENTER. TYPICAL FOR ALL CURB.
  - CONCRETE TO BE 3000 PSI & FIBER REINFORCED.

**NOTE:**  
CONTRACTOR MUST PROVIDE ENGINEER OF RECORD WITH BASE AND SUBGRADE COMPACTION TESTING RESULTS PRIOR TO CONSTRUCTING ANY ASPHALT SURFACE. CONTRACTOR MUST PROVIDE ENGINEER OF RECORD WITH ASPHALT CORE TESTING RESULTS PRIOR TO FINAL "AS-BUILT" APPROVAL AND SUBMITTAL TO AHJ. CONTRACTOR TO COORDINATE WITH E.O.R. TO DETERMINE TEST LOCATIONS.



**TYPICAL ROADWAY ASPHALT SECTION  
N.T.S.**



**TYP. BOLLARD DETAIL  
N.T.S.**

- 6"Ø, SCHEDULE 40 SMOOTH SEAMLESS STEEL PIPE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.
- BOLLARDS TO BE PLUMB AND ALIGNED IN A STRAIGHT LINE AND FILLED WITH CONCRETE.
- TOPS TO BE GROUND SMOOTH W/ SQUARE EDGE, THEN PRIMED WITH "END RUST" BY DURO AND PAINTED WITH INDUSTRIAL OIL BASED ENAMEL.

**INNERARY POINT ROAD AREA  
DRAINAGE IMPROVEMENTS  
SECTION B: GORHAM RD.  
CONSTRUCTION DETAILS**



**HAMMOND ENGINEERING, INC.**  
FLORIDA AUTHORIZATION NO. 9130  
ALABAMA AUTHORIZATION NO. 3277  
3802 NORTH 'S' STREET  
PENSACOLA, FL 32505  
PHONE: (850) 434-2603 FAX: (850) 434-2650  
DESIGNED BY: T. HAMMOND  
CHECKED BY: T. HAMMOND  
DRAWN BY: T. HAMMOND  
DATE: AUGUST 2018  
PROJECT MANAGER: T. BERRY  
DISTRICT: TWO  
SIGNATURE: T. BERRY

REVISIONS	DATE	APPROVED BY:
1. REVISED SINGLE ON BOB O LINK	10/7/16	T. BERRY
2. AS PER ESCAMBA COUNTY BOE COMMENTS	1/14/17	T. BERRY
3. AS PER ESCAMBA COUNTY BOE COMMENTS	2/14/17	T. BERRY
4. INCORPORATED USING SHOULDER AND C&A ADDITIONS	6/14/18	T. BERRY
5. AS PER ESCAMBA COUNTY BOE COMMENTS	6/20/18	T. BERRY
6. AS PER ESCAMBA COUNTY 100% COMMENTS	7/13/18	T. BERRY

NUMBER: 13-020  
DRAWING NUMBER: 13-020  
PROJECT NUMBER:  
SURVEY NUMBER:  
SHEET: C20 of C22

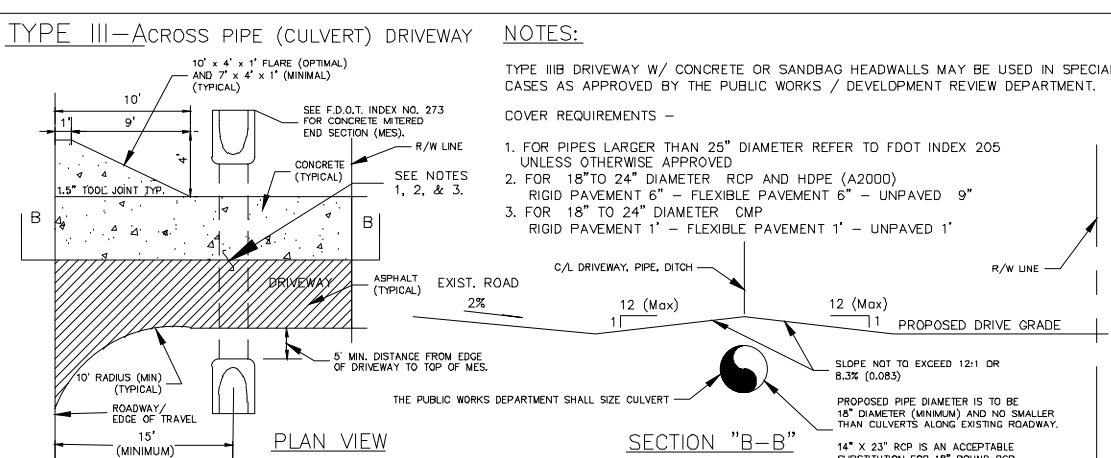
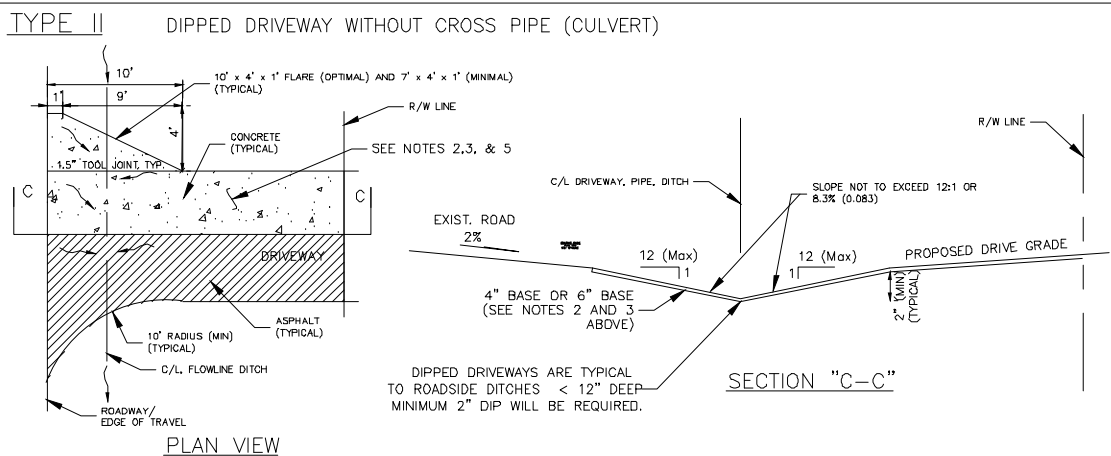
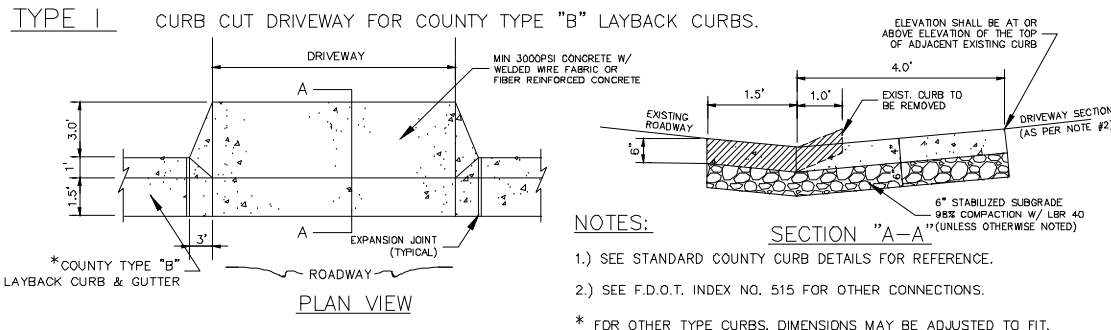


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**TYPICAL DRIVEWAY CONNECTION STANDARDS FOR EXISTING ROADWAY CONDITIONS**

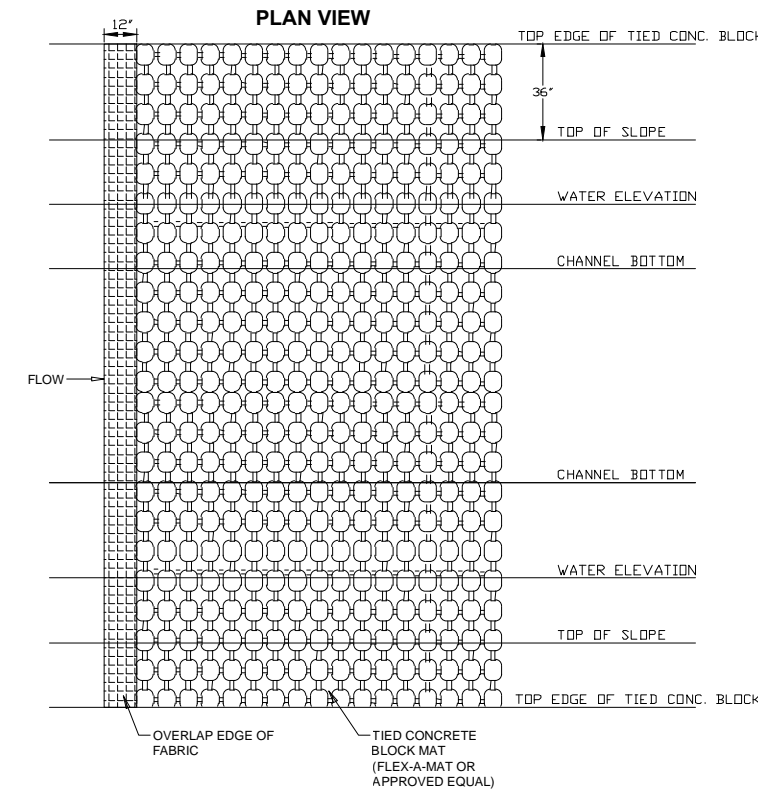
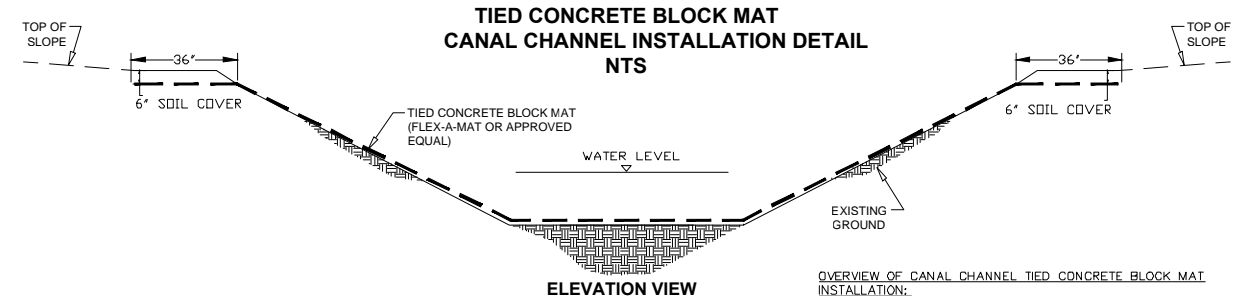
NOTES:

- 1) ALL MATERIALS AND LABOR FOR INSTALLATION WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER/CONTRACTOR.
- 2) RESIDENTIAL DRIVEWAYS ABUTTING PAVED ROADS SHALL BE 1 - 1/2" ASPHALT WITH 6" STABILIZED SUB GRADE OR 4" CONCRETE WITH 6" STABILIZED SUB GRADE - 98% COMPACTION (MODIFIED PROCTOR) WITH LBR 40 BETWEEN EDGE OF ROADWAY AND R/W LINE. COMPACTION AND TESTING IF NECESSARY, THIS WILL BE THE RESPONSIBILITY OF THE OWNER/CONTRACTOR.
- 3) 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.
- 4) IF NECESSARY, REFER TO FDOT INDEX DETAILS AS REFERENCED BELOW.
- 5) RADIUS OR FLARE IS REQUIRED FOR TYPE II OR TYPE III CONNECTIONS. SEE DETAIL.
- 6) PARKING SPACES WITHIN COUNTY RIGHT-OF-WAY SHALL PROVIDE A MINIMUM OF 2 PARKING SPACES.
- 7) TYPICAL DRIVEWAY SECTIONS ARE TO BE 12' WIDE MINIMUM. (4" MIN. RESIDENTIAL DEPTH - 6" MIN. COMMERCIAL DEPTH)
- 8) DRIVEWAY SLOPE SHALL NOT CREATE OR EXACERBATE VEHICULAR SCRAPING. ATTEMPTS SHALL BE MADE TO CORRECT THIS TYPE OF PROBLEM.



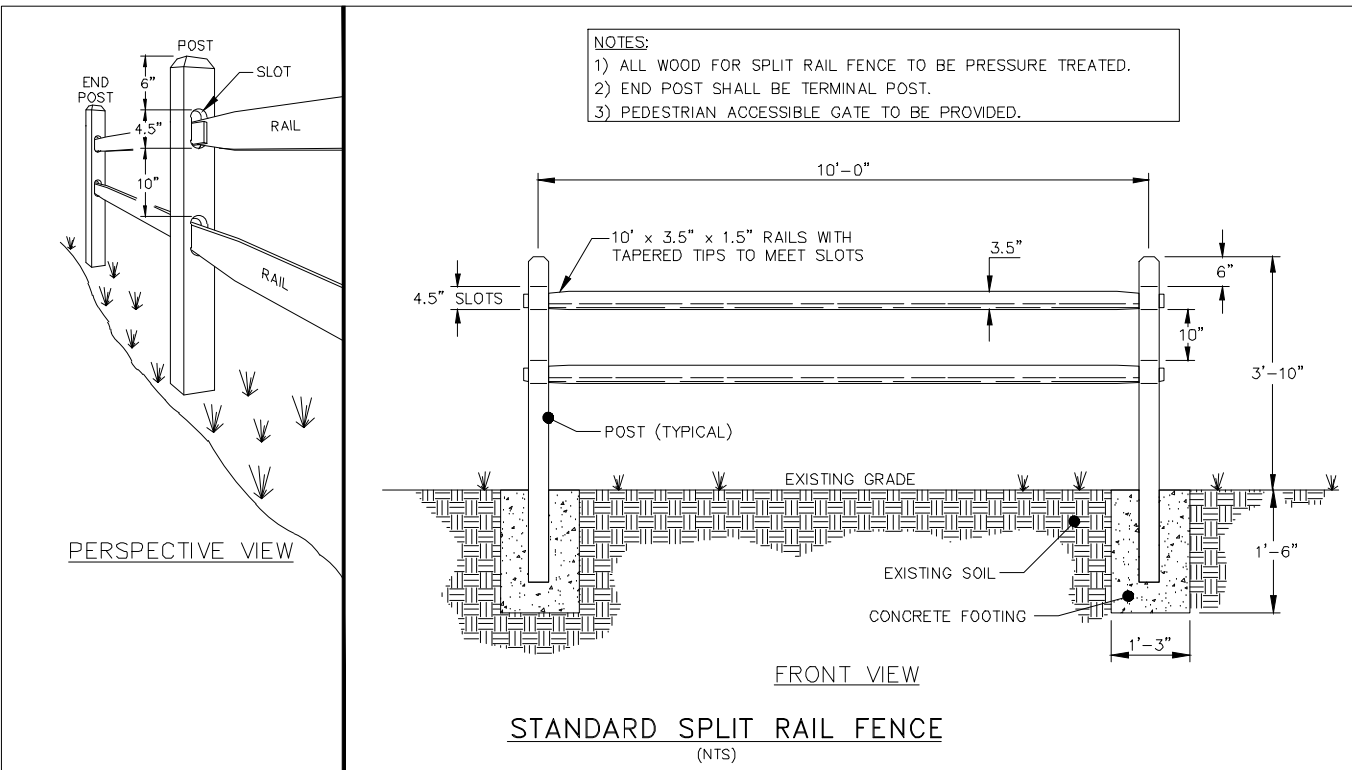
**TYPE IV SPECIAL INNOVATIVE DRIVEWAY CONNECTION AS DESIGNED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER (P.E.) OR LICENSED CONTRACTOR APPROVED BY THE APPROPRIATE PUBLIC WORKS / DEVELOPMENT REVIEW STAFF AND REQUIRES A DETAILED PLAN SUBMITTAL FOR REVIEW PRIOR TO ISSUANCE OF PERMIT.**

**TYPE IV - 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.).**



OVERVIEW OF CANAL CHANNEL TIED CONCRETE BLOCK MAT INSTALLATION:

1. ALONG THE CREST OF EACH SIDE SLOPE, EDGE THE TOPSOIL AN AREA 36" IN WIDTH X 6" IN DEPTH AS SHOWN IN FIGURE 1.
  2. GRADE AND COMPACT THE AREA OF THE TIED BLOCK MAT PROTECTION AS DIRECTED AND APPROVED BY THE ENGINEER. THE AREA MUST BE CLEARED OF ALL ROCKS, CLODS, OR OTHER OBJECT THAT WOULD NOT ALLOW TIED BLOCK MAT TO HAVE DIRECT CONTACT WITH THE SUBGRADE.
  3. PREPARE THE AREA FOR SEEDING BY LOOSENING THE TOP 2 - 3" OF THE SOIL.
  4. APPLY SEED DIRECTLY TO THE PREPARED SOIL. USE SEED/FERTILIZER PER PROJECT SPECIFICATIONS.
  5. USING AN EXCAVATOR, SET THE TIED BLOCK MAT ROLL IN PROPER POSITION TO BE UNROLLED INTO PLACE. MAKE SURE THE 12" TAIL OF GEOGRID EXTENDS FROM THE UPSTREAM SIDE OF THE TIED BLOCK MAT.
  6. START INSTALLATION ON THE DOWNSTREAM END OF THE PROJECT. BEGINNING 36" FROM THE SLOPE OF THE CANAL BANK, TIED BLOCK MAT WILL BE UNROLLED ACROSS THE CANAL AND 36" PAST THE TOP OF THE SIDE SLOPE OF THE OPPOSITE CANAL BANK.
  7. PLACE THE NEXT ROLL OF TIED BLOCK MAT SO THAT THE MAT WILL OVERLAP THE PREVIOUS SECTION'S 12" TAIL OF GEOGRID, CREATING AN OVERLAP.
  8. AS THE INSTALLATION PROGRESSES, USE EXCAVATOR TO SPREAD THE REMOVED TOPSOIL ONTO THE TIED BLOCK MAT INSTALLED IN THE 36" WIDE X 6" DEEP AREA AT THE TOP OF EITHER CANAL BANK. GRADE IT SO THAT IT IS A SMOOTH TRANSITION TO THE LANDSCAPE.
  9. ONCE THE PROJECT HAS REACHED THE UPSTREAM END, EXCAVATE A TRENCH 12" DEEP ACROSS THE AREA WHERE THE INITIAL LEADING EDGE OF TIED BLOCK MAT WILL BE INSTALLED. AFTER THE TIED BLOCK MAT IS INSTALLED, BACKFILL THE TRENCH WITH THE REMOVED SOIL.
- SPECIAL TRANSITIONS: CONSULT MANUFACTURER FOR APPLICATIONS THAT REQUIRE SPECIAL TRANSITIONS TO EXISTING ROCK RIP RAP, CONCRETE OR OTHER RETEMENT SYSTEMS.
- NOTE: PENSACOLA BAHIA (OR APPROVED EQUAL) SEED TO BE UTILIZED.



**INNERARITY POINT ROAD AREA DRAINAGE IMPROVEMENTS SECTION B: GORHAM RD. CONSTRUCTION DETAILS**

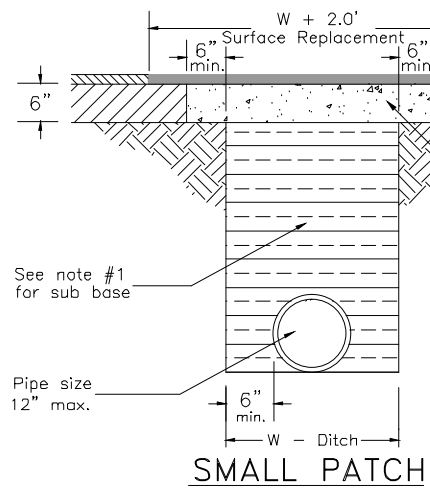
**HAMMOND ENGINEERING, INC.**  
 FLORIDA AUTHORIZATION NO. 9130  
 ALABAMA AUTHORIZATION NO. 3277  
 3802 NORTH 'S' STREET  
 PENSACOLA, FL 32505  
 PHONE: (850) 434-2603 FAX: (850) 434-2650

DESIGNED BY: T. HAMMOND  
 CHECKED BY: T. HAMMOND  
 DRAWN BY: T. HAMMOND  
 DATE: AUGUST 2018

REVISIONS	DATE	APPROVED BY
1. REVISED SHALE ON BOB O LINK	10/7/16	T. BERRY
2. AS PER ESCAMBIA COUNTY BOE COMMENTS	1/4/17	T. BERRY
3. AS PER ESCAMBIA COUNTY BOE COMMENTS	2/14/17	T. BERRY
4. INCORPORATED USING SHORLENE AND JAH ADDITIONS	6/14/18	T. BERRY
5. AS PER ESCAMBIA COUNTY BOE COMMENTS	6/20/18	T. BERRY
6. AS PER ESCAMBIA COUNTY 100% COMMENTS	7/13/18	T. BERRY

PROJECT NUMBER: 13-020  
 SURVEY NUMBER: [Blank]  
 SHEET: C21 of C22

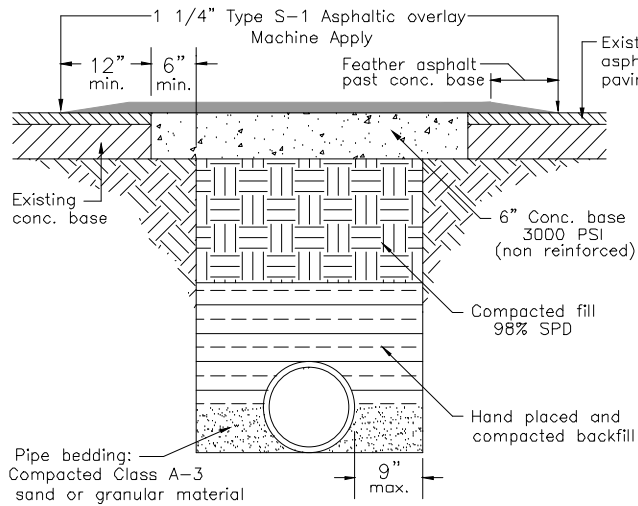
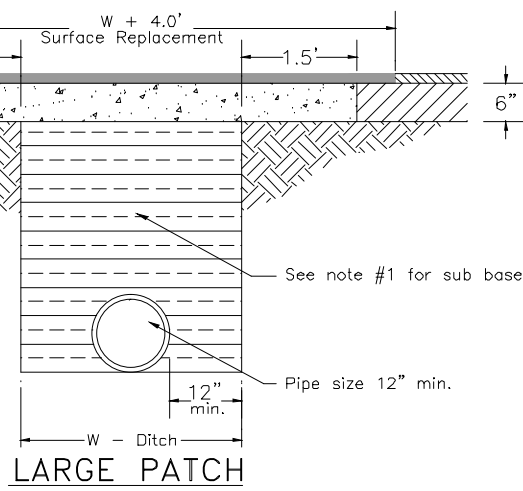
DATE: DATE: DATE: VERIFICATION, CHECKER (DR) (Blue Highlighter) REMARK INCORPORATION (Blue Highlighter) ORIGINAL VERIFICATION (Pink Highlighter) DATE: DATE: DATE: CHANGE INCORPORATION (Yellow Highlighter) ORIGINAL (GR) CORRECT (Green Highlighter) Change (Red Pen) CHECKER (RP) (Red Pen X-Out to Disagree or Remark) DATE: DATE: DATE: PRODUCTION CHECKING COMPLETE, READY FOR SUBMITTAL REVIEW (RP) ORIGINAL (RP) REVIEW SIGNATURE:



**SPECIAL NOTE:** If the county does not approve of the contractor's flush patch, the contractor shall overlay in accordance with Machine Overlay Patch Detail shown. All costs associated with said overlay shall be the responsibility of the contractor.

### PAVED ROAD DETAIL FOR LATERAL CUTS

ALL NOTES APPLY



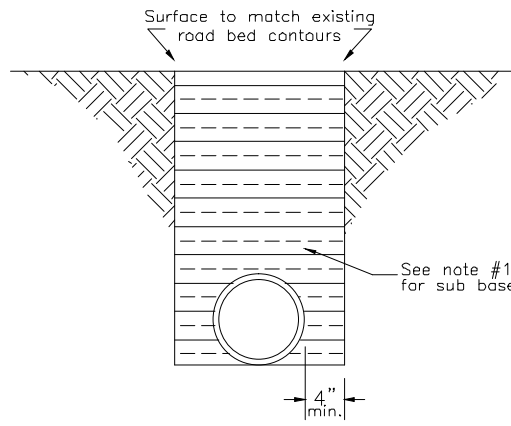
MACHINE OVERLAY PATCH DETAIL

### NOTES

1. Patch work sub base material to be placed in 8" layers (max.), each layer to be tamped to a minimum of 40 lbr.
2. Road cuts shall be : (a) Mechanically sawed to form a surface pavement joint. (b) Surface treatment pavement joint shall be lapped and feathered. (c) Surface material will be consistent and same material as the existing surface course. (d) Concrete replacement base poured in place with a minimum strength of 3000 psi.
3. Longitudinal road cuts of less than one half pavement width to be patched same as lateral patch. Longitudinal road cuts 1/2 or over to be patched with same base material and entire road resurfaced.
4. All open roadway cuts will have a density test performed to insure the roadbed has a 95% compaction. Failure to do so will result in repatching. A copy of the test results will be provided to Escambia County Engineering.
5. All perforated polyethylene pipe that is 24" or smaller shall have a factory applied synthetic sock and will be ready for installation. All perforated polyethylene pipe that is 30" or larger shall be wrapped in a non-woven fabric called ADS 4000 or an approved equal.

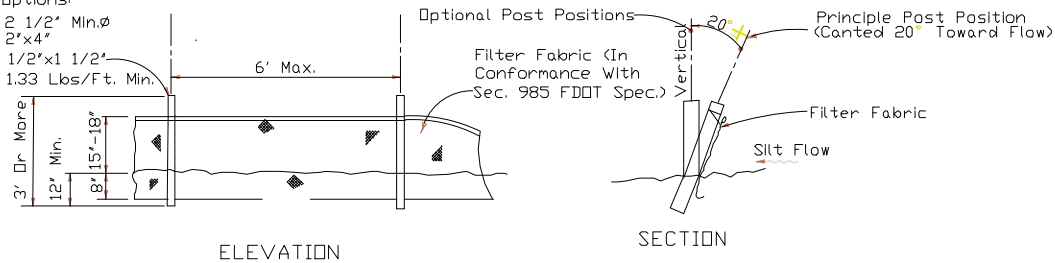
### TYPICAL PATCH DETAILS (FOR COUNTY STREET)

NOT TO SCALE



DIRT ROAD PATCH DETAIL

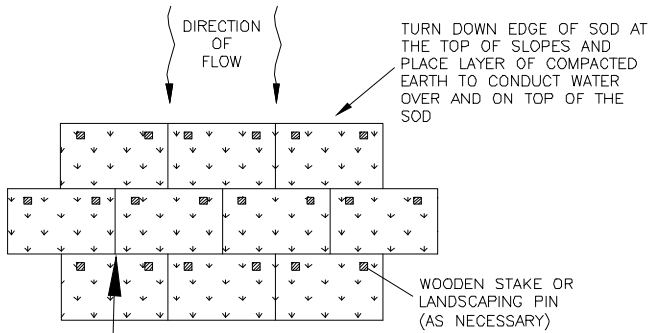
Post Options:  
 Wood 2 1/2" Min.Ø  
 Wood 2"x4"  
 Oak 1 1/2"x1 1/2"  
 Steel 1.33 Lbs/Ft. Min.



ELEVATION

SECTION

TYPE III SILT FENCE

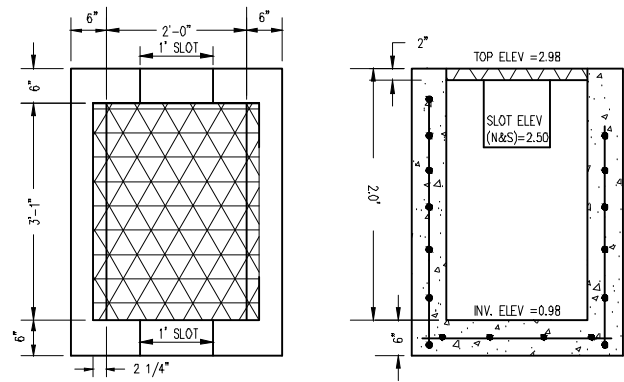


### NOTES:

1. PLACE SOD BEGINNING AT THE TOE OF THE SLOPE AND LONG EDGE PERPENDICULAR TO DIRECTION OF FLOW.
2. SOD SHALL BE STAKED ON ALL SLOPES 4:1 OR STEEPER, IN ANY AREAS OF CONCENTRATED DRAINAGE FLOWS AND ANYWHERE THAT THERE IS DANGER OF SOD SLIPPING.

### SODDING DETAIL

NOT TO SCALE



**MATERIALS:**  
 CONCRETE: 4000 PSI, TYPE II CEMENT  
 WALL REINFORCING: 3x4 W3.1/W4.1 WWF 65 K.S.I. (AS PER FDOT-INDEX 201)  
 BOTTOM SLAB REINFORCING: #4 @ 12" C.C.E.W. \*

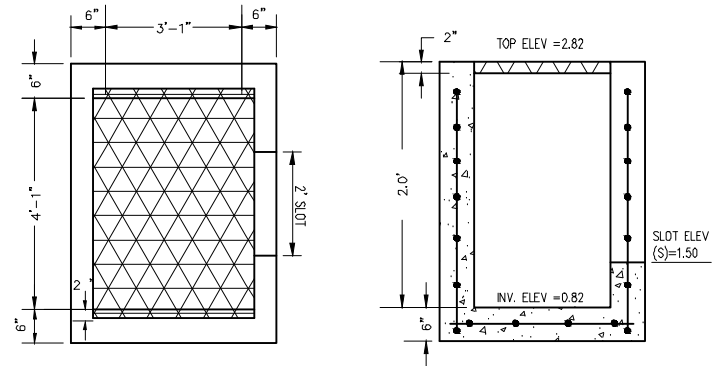
**NOTE:**  
 ALL EXPOSED EDGES TO HAVE 3/4" CHAMFER.  
 \* GRADE 40, OR EQUIVALENT WELDED WIRE MESH.

### GRATE INFORMATION:

U.S.F. NO.	TYPE	RATING	FLOW AREA (SQ. IN.)
6611	STEEL	TRAFFIC	785

TYPE 'C' DITCH BOTTOM INLET W/ SLOT  
 N.T.S.

STRUCTURE S-111



**MATERIALS:**  
 CONCRETE: 4000 PSI, TYPE II CEMENT.  
 WALL REINFORCING:  
 3 X 4 W3.1/W4.1 WWF 65 K.S.I. (AS PER F.D.O.T. INDEX-201)  
 BOTTOM SLAB REINFORCING:  
 #4 @ 12" C.C.E.W.\*

**NOTE:**  
 ALL EXPOSED EDGES TO HAVE A 3/4" CHAMFER.  
 \*GRADE 40, OR EQUIVALENT WELDED WIRE MESH.

### GRATE INFORMATION:

U.S.F. NO.	TYPE	RATING	FLOW AREA (SQ. IN.)
6626	STEEL	TRAFFIC	1,495

GRATE NOT SHOWN FOR CLARITY.

TYPE 'D' DITCH BOTTOM INLET W/ SLOT  
 N.T.S.

STRUCTURE S-112

## INNERARY POINT ROAD AREA DRAINAGE IMPROVEMENTS SECTION B: GORHAM RD. CONSTRUCTION DETAILS



**HAMMOND ENGINEERING, INC.**  
 FLORIDA AUTHORIZATION NO. 9130  
 ALABAMA AUTHORIZATION NO. 3277  
 3802 NORTH 'S' STREET  
 PENSACOLA, FL 32505  
 PHONE: (850) 434-2603 FAX: (850) 434-2650

DESIGNED BY: T. HAMMOND  
 CHECKED BY: T. HAMMOND  
 DRAWN BY: T. HAMMOND  
 PROJECT MANAGER: T. HAMMOND  
 DATE: AUGUST 2018

REVISIONS	DATE	APPROVED BY:
1.	10/7/16	T. BERRY
2.	1/9/17	T. BERRY
3.	2/14/17	T. BERRY
4.	6/14/18	T. BERRY
5.	6/20/18	T. BERRY
6.	7/13/18	T. BERRY

NUMBER: 13-020  
 DRAWING NUMBER:  
 PROJECT NUMBER:  
 SURVEY NUMBER: