



Florida Department of Environmental Protection

160 W. Government Street, Suite 308
Pensacola, Florida 32502-5740

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Jonathan P. Steverson
Interim Secretary

Permittee/Authorized Entity:

Colby Cleveland
Florida Department of Transportation
1074 Highway 90
Chipley, Florida 32428
Colby.cleveland@dot.state.fl.us

Marcus Bayou Patricia Drive

Authorized Agent:

Tracey Ludyjan-Ybarra
Ecological Resource Consultants
Panama City Beach, Florida 21413
tybarra@ecoresource.com

Environmental Resource Permit State-owned Submerged Lands Authorization – Granted

U.S. Army Corps of Engineers Authorization – Separate Corps Authorization Required

Escambia County
Permit No.: 17-0333260-001-EI
Easement No.: 41778

Permit Issuance Date: July 31, 2015
Permit Construction Phase Expiration Date: July 31, 2020

Consolidated Environmental Resource Permit and Sovereignty Submerged Lands Authorization

**Permittee /Grantee: Florida Department of Transportation
Permit No: 17-0333260-001-EI**

PROJECT LOCATION

The activities authorized by this permit and sovereignty submerged lands authorization are located on Patricia Drive north of the intersection of Fairfield Drive and Patricia Drive, Pensacola, Florida, 32506 in Sections 10 and 37, Township 2 South, Range 31 West in Escambia County, at latitude 30°25'56.34N" and longitude 87°18'28.79W".

PROJECT DESCRIPTION

The permittee is authorized to impact 1.4 acres of wetlands to replace an existing bridge (FDOT Bridge No. 484069) on Patricia Drive within the landward and waterward extent of Marcus Bayou Creek, a Class III Waterbody. Those activities include the construction and removal of a temporary bridge, removal of the existing bridge, and construction of a new bridge, including the use of an area within an existing public easement comprising 4,132 square feet of preemption of sovereignty submerged lands. Authorized activities are depicted on the attached exhibits.

To offset unavoidable impacts that will occur from these authorized activities, the permittee shall provide mitigation in accordance with Florida Statute 373.4137.

AUTHORIZATIONS

Marcus Bayou Patricia Drive

Environmental Resource Permit

The Department has determined that the activity qualifies for an Environmental Resource Permit. Therefore, the Environmental Resource Permit is hereby granted, pursuant to Part IV of Chapter 373, Florida Statutes (F.S.), and Chapter 62-330, Florida Administrative Code (F.A.C.).

Sovereignty Submerged Lands Authorization

The Department acts as staff to the Board of Trustees of the Internal Improvement Trust Fund (Board of Trustees) and issues certain authorizations for the use of sovereign submerged lands. The Department has the authority to review activities on sovereign submerged lands under Chapters 253 and 258 of the Florida Statutes, and Chapters 18-20 and 18-21 of the Florida Administrative Code.

The activity appears to be located on sovereignty submerged lands owned by the Board of Trustees. The activity is not exempt from the need to obtain the applicable proprietary authorization. As staff to the Board of Trustees, the Department has reviewed the activity described above, and has determined that the activity is authorized under existing Sovereign Submerged Lands Easement No. 41778.

Federal Authorization

A copy of this permit has been sent to the U.S. Army Corps of Engineers (USACE). The USACE may require a separate permit. Failure to obtain any required federal permits prior to construction could subject you to enforcement action by that agency.

Authority for review - an agreement with the USACOE entitled “Coordination Agreement Between the U. S. Army Corps of Engineers (Jacksonville District) and the Florida Department of Environmental Protection, or Duly Authorized Designee, State Programmatic General Permit”, Section 10 of the Rivers and Harbor Act of 1899, and Section 404 of the Clean Water Act.

Coastal Zone Management

Issuance of this authorization also constitutes a finding of consistency with Florida's Coastal Zone Management Program, as required by Section 307 of the Coastal Zone Management Act.

Water Quality Certification

This permit also constitutes a water quality certification under Section 401 of the Clean Water Act, 33 U.S.C. 1341

Other Authorizations

You are advised that authorizations or permits for this activity may be required by other federal, state, regional, or local entities including but not limited to local governments or municipalities. This permit does not relieve you from the requirements to obtain all other required permits or authorizations.

The activity described may be conducted only in accordance with the terms, conditions and attachments contained in this document. Issuance and granting of the permit and authorizations herein do not infer, nor guarantee, nor imply that future permits, authorizations, or modifications will be granted by the Department.

PERMIT/SOVEREIGNTY SUBMERGED LANDS CONDITIONS

The activities described must be conducted in accordance with:

- **The Specific Conditions**
- **The General Conditions**
- **The General Conditions for Sovereignty Submerged Lands Authorization**
- **The limits, conditions and locations of work shown in the attached drawings**
- **The term limits of this authorization**

You are advised to read and understand these conditions and drawings prior to beginning the authorized activities, and to ensure the work is conducted in conformance with all the terms, conditions, and drawings herein. If you are using a contractor, the contractor also should read and understand these conditions and drawings prior to beginning any activity. Failure to comply with these conditions, including any mitigation requirements, shall be grounds for the Department to revoke the permit and authorization and to take appropriate enforcement action.

Operation of the facility is not authorized except when determined to be in conformance with all applicable rules and this permit and sovereignty submerged lands authorization, as described.

SPECIFIC CONDITIONS - PRIOR TO ANY CONSTRUCTION

1. Prior to construction, the limits of the proposed fill areas shall be clearly flagged and staked by the agent and/or the contractor. All construction personnel shall be shown the location(s) of all wetland areas outside of the construction area to prevent encroachment from heavy equipment into these areas.
2. Best management practices (primarily turbidity screens) for erosion and turbidity control shall be installed prior to commencement of construction activities, and shall be maintained at all times during construction of the permitted activity to prevent siltation and turbid discharges in excess of Class III state water standards pursuant to Chapter 62-302, F.A.C. Methods shall include, but are not limited to the use of staked hay bales, staked filter cloth, sodding, seeding, and mulching; staged construction; and the installation of turbidity screens around the immediate project site.

The permittee shall be responsible for ensuring that erosion and turbidity control devices and procedures are inspected and maintained daily during all phases of construction authorized by this permit until all areas that were disturbed during construction are sufficiently stabilized to prevent erosion, siltation, and turbid discharges.

3. The following measures shall be taken by the permittee whenever turbidity levels within waters of the State exceed Class III state water standards:
 - a. Immediately cease all work contributing to the water quality violation.
 - b. Stabilize all exposed soils contributing to the violation, modify the work procedures that were responsible for the violation, and install more turbidity containment devices and repair any non-functioning turbidity containment devices.
 - c. Notify the Northwest District Office at (850) 595-8300 within 24 hours of the time the violation is first detected.

SPECIFIC CONDITIONS – CONSTRUCTION ACTIVITIES

4. For emergencies involving a serious threat to the public health, safety, welfare, or environment, the emergency telephone contact number is **800-320-0519** (State Warning Point). The Department telephone number for reporting nonthreatening problems or system malfunctions is (850) 595-0663, day or night
5. If the approved permit drawings conflict with the specific conditions, then the specific conditions shall prevail.
6. All wetland areas or waterbodies which are outside the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring, and/or dewatering.

7. There shall be no storage or stockpiling of tools, materials (i.e., pilings, debris) within wetlands or elsewhere within waters of the state unless specifically approved in the permit.
8. Construction equipment shall not be repaired or refueled in wetlands or elsewhere within waters of the state.
9. All watercraft associated with the authorized construction activities shall only operate within waters of sufficient depth so as to preclude bottom scouring/prop dredging.
10. Any fill material used shall be clean fill and free of vegetative matter, trash, garbage, toxic or hazardous waste or any other unsuitable materials.
11. The riprap revetment shall be constructed in accordance with the specifications shown on the attached permit drawings.

SPECIFIC CONDITIONS – MITIGATION

12. 0.59 units of functional loss shall be mitigated for in accordance with Section 373.4137, Florida Statutes.

SPECIFIC CONDITIONS – OPERATION AND MAINTENANCE ACTIVITIES

13. The mailing address for submittal of forms for the “Construction Commencement Notice”, “As-Built Certification ...”, or other correspondence is FDEP, SLERP, 160 W. Government Street, Pensacola, Florida, 32502.

GENERAL CONDITIONS FOR INDIVIDUAL PERMITS

The following general conditions are binding on all individual permits issued under chapter 62-330, F.A.C., except where the conditions are not applicable to the authorized activity, or where the conditions must be modified to accommodate project-specific conditions.

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C. Any deviations that are not so authorized may subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.
2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.
3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation June 2007)*, and the *Florida Stormwater Erosion and*

Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), which are both incorporated by reference in subparagraph 62-330.050(9)(b)5., F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.

4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice," [October 1, 2013], which is incorporated by reference in paragraph 62-330.350(1)(d), F.A.C., indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5), F.A.C. If available, an Agency website that fulfills this notification requirement may be used in lieu of the form.

5. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.

6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:

- a. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex – "Construction Completion and Inspection Certification for Activities Associated with a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or
- b. For all other activities – "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].
- c. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.

7. If the final operation and maintenance entity is a third party:

- a. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as-built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.3 of Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.
- b. Within 30 days of submittal of the as-built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

8. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.

9. This permit does not:

- a. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;

- b. Convey to the permittee or create in the permittee any interest in real property;
 - c. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
 - d. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.
10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.
11. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.
12. The permittee shall notify the Agency in writing:
- a. Immediately if any previously submitted information is discovered to be inaccurate; and
 - b. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.
13. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.
14. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S.
15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.
16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be

disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.

17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.

18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with subsection 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

GENERAL CONDITIONS FOR SOVEREIGNTY SUBMERGED LANDS AUTHORIZATION

Any use of sovereignty submerged lands is subject to the following general conditions are binding upon the applicant and are enforceable under Chapter 253, F.S.

1. Sovereignty submerged lands may be used only for the specified activity or use. Any unauthorized deviation from the specified activity or use and the conditions for undertaking that activity or use will constitute a violation. Violation of the authorization will result in suspension or revocation of the applicant's use of the sovereignty submerged lands unless cured to the satisfaction of the Board of Trustees.

2. Authorization under Rule 18-21.005, F.A.C., conveys no title to sovereignty submerged lands or water column, nor does it constitute recognition or acknowledgment of any other person's title to such land or water.

3. Authorizations under Rule 18-21.005, F.A.C., may be modified, suspended or revoked in accordance with its terms or the remedies provided in Sections 253.04, F.S. and Chapter 18-14, F.A.C.

4. Structures or activities will be constructed and used to avoid or minimize adverse impacts to resources.

5. Construction, use, or operation of the structure or activity will not adversely affect any species which is endangered, threatened or of special concern, as listed in Rules 68A-27.003, 68A-27.004, and 68A-27.005, F.A.C.

6. Structures or activities will not unreasonably interfere with riparian rights. When a court of competent jurisdiction determines that riparian rights have been unlawfully affected, the structure or activity will be modified in accordance with the court's decision.

7. Structures or activities will not create a navigational hazard.

8. Structures will be maintained in a functional condition and will be repaired or removed if they become dilapidated to such an extent that they are no longer functional.

9. Structures or activities will be constructed, operated, and maintained solely for water dependent purposes.

10. The applicant agrees to indemnify, defend and hold harmless the Board of Trustees and the State of Florida from all claims, actions, lawsuits and demands in any form arising out of the authorization to use sovereignty submerged lands or the applicant's use and construction of structures on sovereignty submerged lands. This duty to indemnify and hold harmless will include any and all liabilities that are associated with the structure or activity including special assessments or taxes that are now or in the future assessed against the structure or activity during the period of the authorization.

11. Failure by the Board of Trustees to enforce any violation of a provision of the authorization or waiver by the Board of Trustees of any provision of the authorization will not invalidate the provision not enforced or waived, nor will the failure to enforce or a waiver prevent the Board of Trustees from enforcing the unenforced or waived provision in the event of a violation of that provision.

12. Applicant binds itself and its successors and assigns to abide by the provisions and conditions set forth in the authorization. If the applicant or its successors or assigns fails or refuses to comply with the provisions and conditions of the authorization, the authorization may be terminated by the Board of Trustees after written notice to the applicant or its successors or assigns. Upon receipt of such notice, the applicant or its successors or assigns will have thirty (30) days in which to correct the violations. Failure to correct the violations within this period will result in the automatic revocation of this authorization.

13. All costs incurred by the Board of Trustees in enforcing the terms and conditions of the authorization will be paid by the applicant. Any notice required by law will be made by certified mail at the address shown on page one of the authorization. The applicant will notify the Board of Trustees in writing of any change of address at least ten days before the change becomes effective.

14. This authorization does not allow any activity prohibited in a conservation easement or restrictive covenant that prohibits the activity.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the hearing process may result in a modification of the agency action or even denial of the application.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rule 28-106.201, F.A.C., a petition for an administrative hearing must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, any email address, any facsimile number, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with subsection 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant must be filed within 14 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the notice or within 14 days of receipt of the written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who has asked the Department for notice of agency action may file a petition within 14 days of receipt of such notice, regardless of the date of publication. The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

Extension of Time

Under subsection 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative

hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, before the applicable deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

FLAWAC Review

The applicant, or any party within the meaning of Section 373.114(1)(a) or 373.4275, F.S., may also seek appellate review of this order before the Land and Water Adjudicatory Commission under Section 373.114(1) or 373.4275, F.S. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when this order is filed with the Clerk of the Department.

Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, M.S. 35, Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this action is filed with the Clerk of the Department.

If you have any questions regarding this matter, please contact Diana Athnos at the letterhead address, at (850) 595-0557, or at diana.athnos@dep.state.fl.us.

Executed in Escambia County, Florida

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



For Emile D. Hamilton
Director

Attachment:

Project Drawings, 21 pages

Copies of 62-330 forms can be obtained at:

<http://www.dep.state.fl.us/water/wetlands/erp/forms.htm>

c:

U.S. Army Corps of Engineers

Escambia County

Tracey Ludyjan-Ybarra tybarra@ecoresource.com

CERTIFICATE OF SERVICE

The undersigned hereby certifies that this permit and authorization to use sovereignty submerged lands, including all copies, were mailed/emailed before the close of business on July 31, 2015, to the above listed persons.

FILING AND ACKNOWLEDGMENT

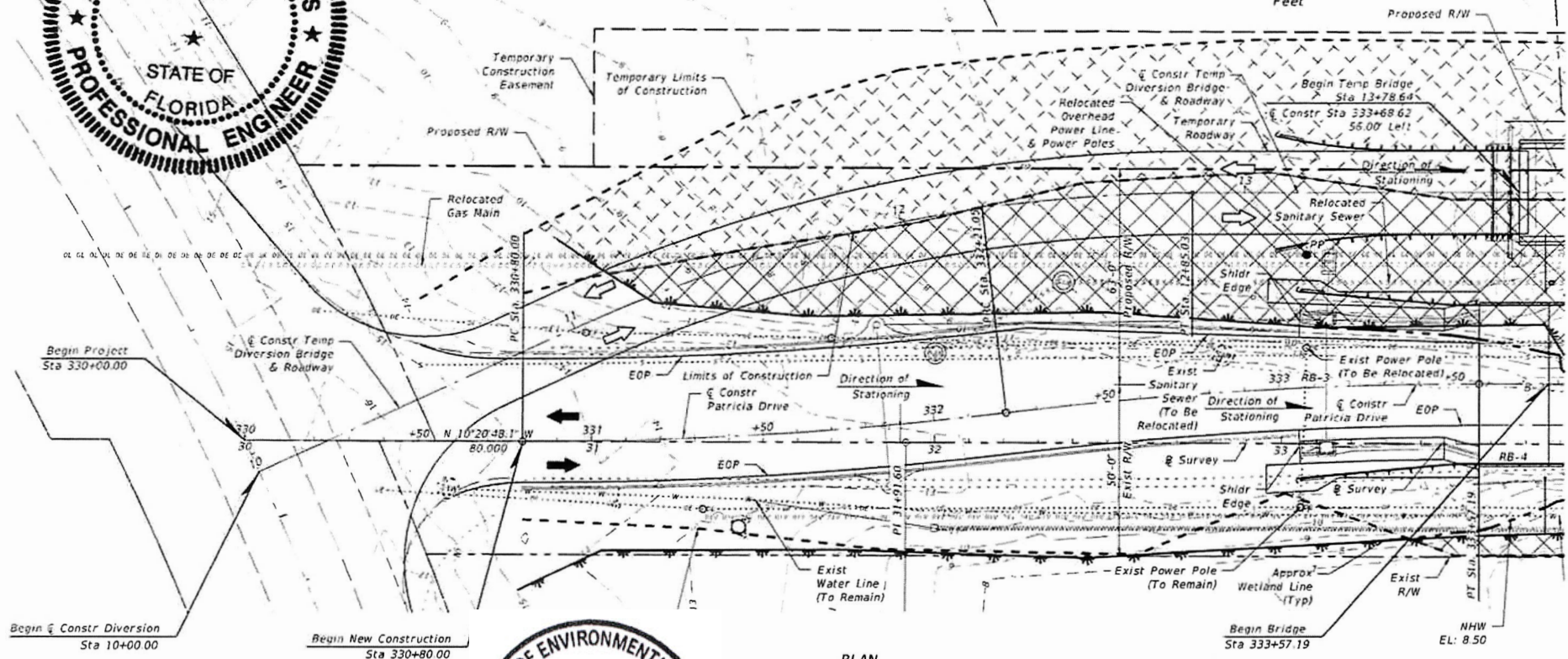
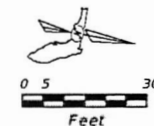
FILED, on this date, under 120.52(7), F.S.,
with the designated Department Clerk,
receipt of which is hereby acknowledged.



Clerk

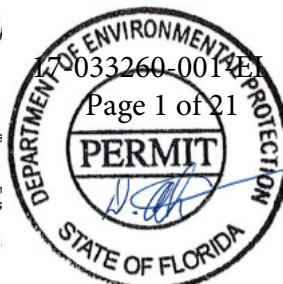
7/31/2015

Date



LEGEND

- ➔ Direction of Traffic
- ➔ Temporary Diversion Roadway Direction of Traffic
- ⊙ Approx SPT Boring Location
- Water Flow
- ▨ Excavation
- W Exist Water
- G Exist Buried Gas
- OE Exist Overhead Electric, Teleph & Cable Televis
- s Exist Sanitary



PLAN

- ▨ Temporary Wetlands Impact 0.9640 Acres
- ▨ Permanent Wetlands Impact 0.3954 Acres
- Area of Wetlands Under Bridge 0.1412 Acres

Note:
In the Wetlands Areas, the Contractor is to restore Temporary Impact Areas to the Pre-Construction Elevation

Bridge No. 484256

REVISIONS				STATE OF FLORIDA				SHEET TITLE		REF. DWG NO	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	WFO NO.	COUNTY	PROJECT NO.	PROJECT NAME	SHEET NO.	
						PATRICIA	ESCAMBIA	430472-1-52-01	PATRICIA DRIVE OVER BAYOU MARCUS CREEK BRIDGE REPLACEMENT	01	

Hatch Mott MacDonald
Engineer of Record:
Bart F. Hendricks, P.E. #51391
5111 N. 12th Ave Pensacola, FL 32504
(850) 484-6011
Certificate of Authorization
#00000155

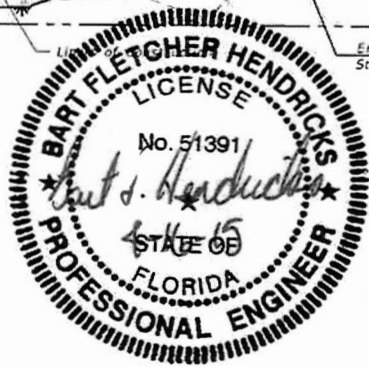
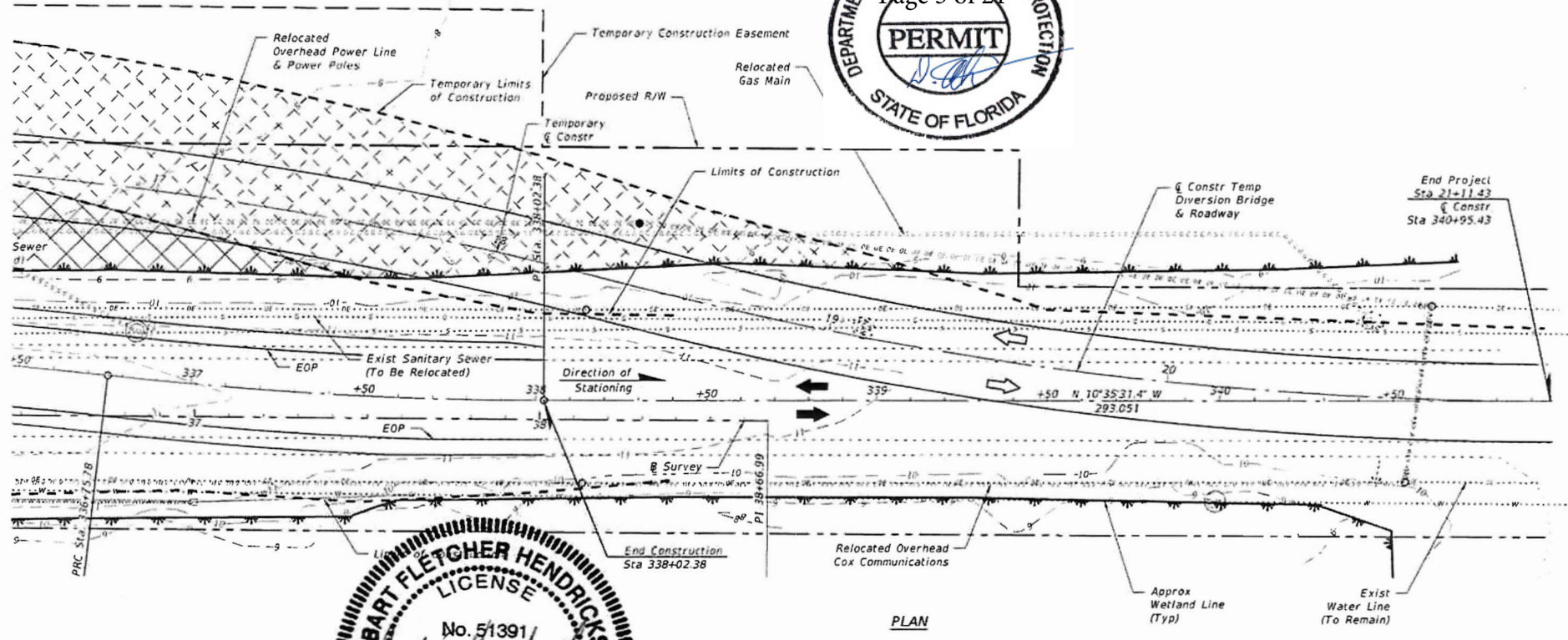
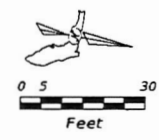
DESIGNED BY: B.F.H.
CHECKED BY: B.F.H.
DATE: 11/17/2015

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
PROJECT NO. 430472-1-52-01

WETLANDS IMPACT (1 OF 3)
PATRICIA DRIVE OVER BAYOU MARCUS CREEK
BRIDGE REPLACEMENT



17-05320-0017-21
Page 3 of 21



LEGEND
★ Refer to Sheet 01 for Legend

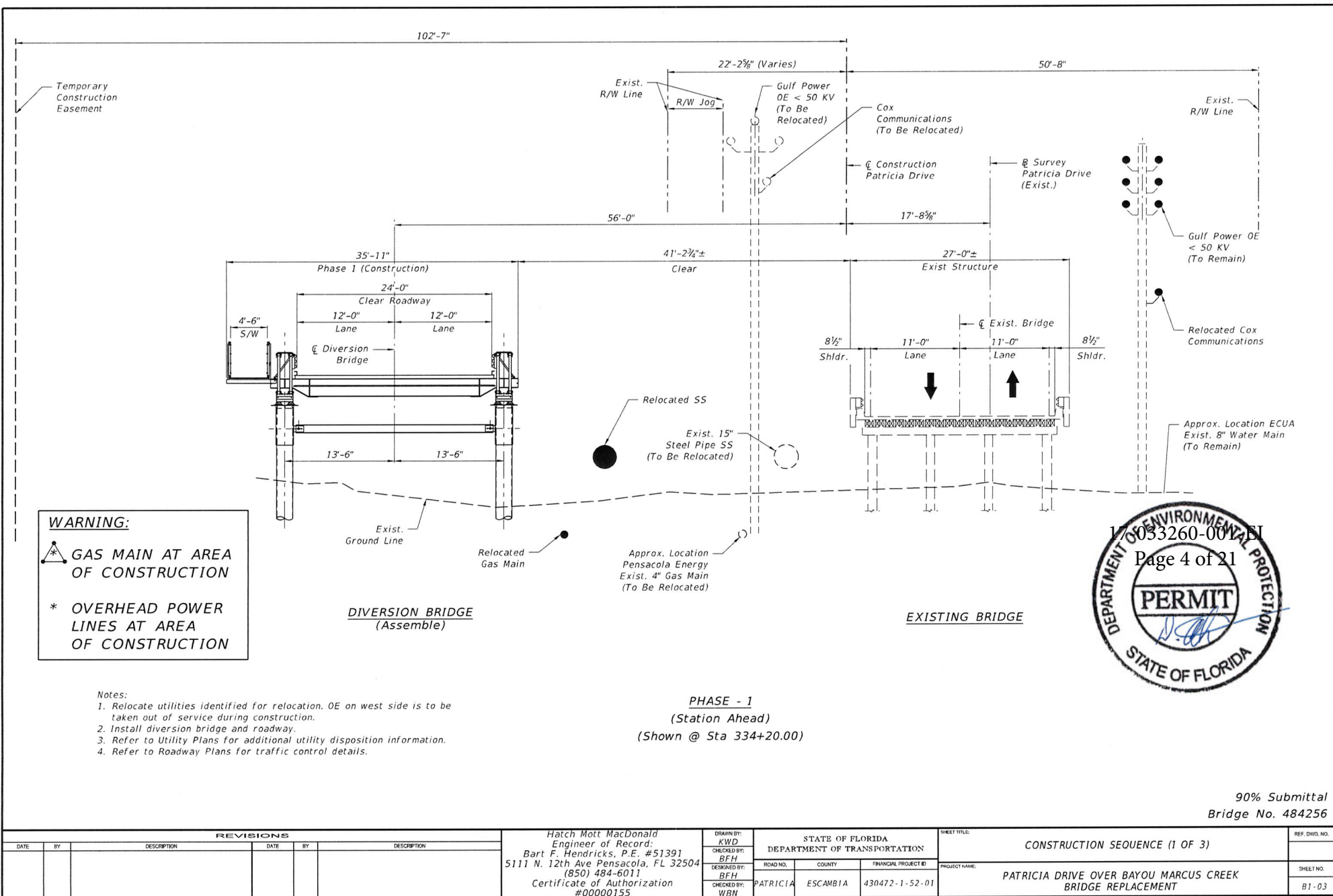
Bridge No. 484256

REVISIONS				DESIGNER				STATE OF FLORIDA				WETLANDS IMPACT (3 OF 3)		REF. DWG NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME			SHEET NO.
								PATRICIA	ESCAMBIA	430472-1-52-01	PATRICIA DRIVE OVER BAYOU MARCUS CREEK BRIDGE REPLACEMENT			03

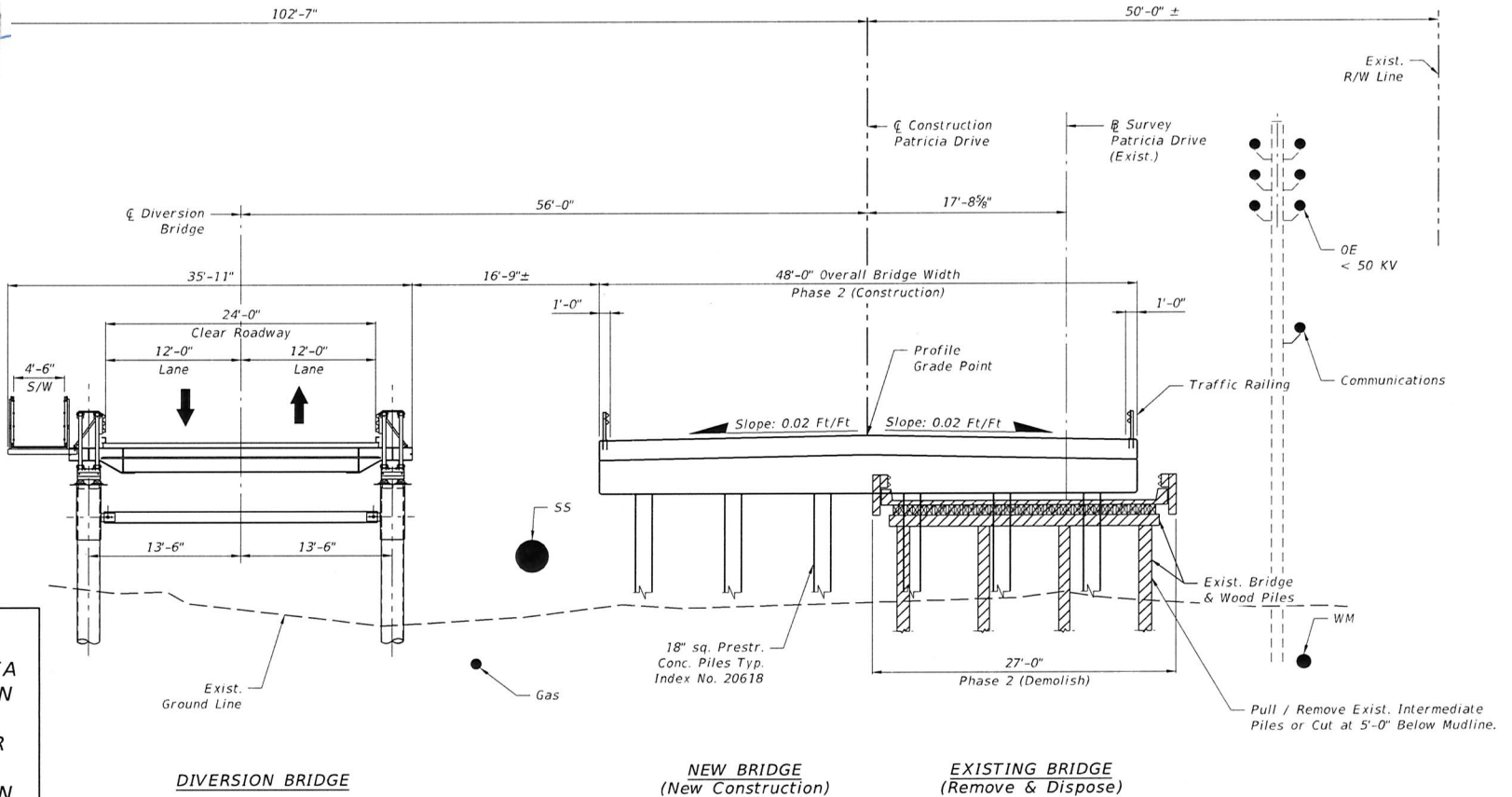
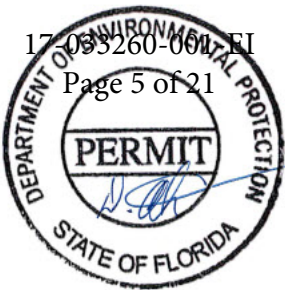
Hatch Mott MacDonald
Engineer of Record:
Bart F. Hendricks, P.E. #51391
5111 N. 12th Ave Pensacola, FL 32504
(850) 484-6011
Certificate of Authorization
#00000155

DESIGNED BY: KVD
CHECKED BY: RFH
DESIGNED BY: RFH
CHECKED BY: WDN

4/17/2013 4:09:16 PM C:\324581\Project\Patricia\Wetlands\Permits\03\Wetlands\03\Wetlands.dwg



NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



WARNING:

GAS MAIN AT AREA OF CONSTRUCTION

*** OVERHEAD POWER LINES AT AREA OF CONSTRUCTION**

Notes

1. Install Type K Temporary Barrier Index 414, and place temporary lane striping.
2. Route traffic to diversion bridge.
3. Erect appropriate demolition shields to prevent debris from falling into the creek below. Include the cost of the debris shields in the removal of existing bridge, Bid Pay Item No. 110-3.
4. Demolish existing bridge.
5. Construct new bridge.

PHASE - 2
(Station Ahead)
(Shown @ Sta 334+20.00)

90% Submittal
Bridge No. 484256

REVISIONS						Hatch Mott MacDonald Engineer of Record: Bart F. Hendricks, P.E. #51391 5111 N. 12th Ave Pensacola, FL 32504 (850) 484-6011 Certificate of Authorization #00000155	DRAWN BY: KWD CHECKED BY: BFH DESIGNED BY: BFH CHECKED BY: WRN	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: CONSTRUCTION SEQUENCE (2 OF 3) PATRICIA DRIVE OVER BAYOU MARCUS CREEK BRIDGE REPLACEMENT	REF. DIVS. NO. SHEET NO. B1-04
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								PATRICIA	ESCAMBIA	430472-1-52-01		

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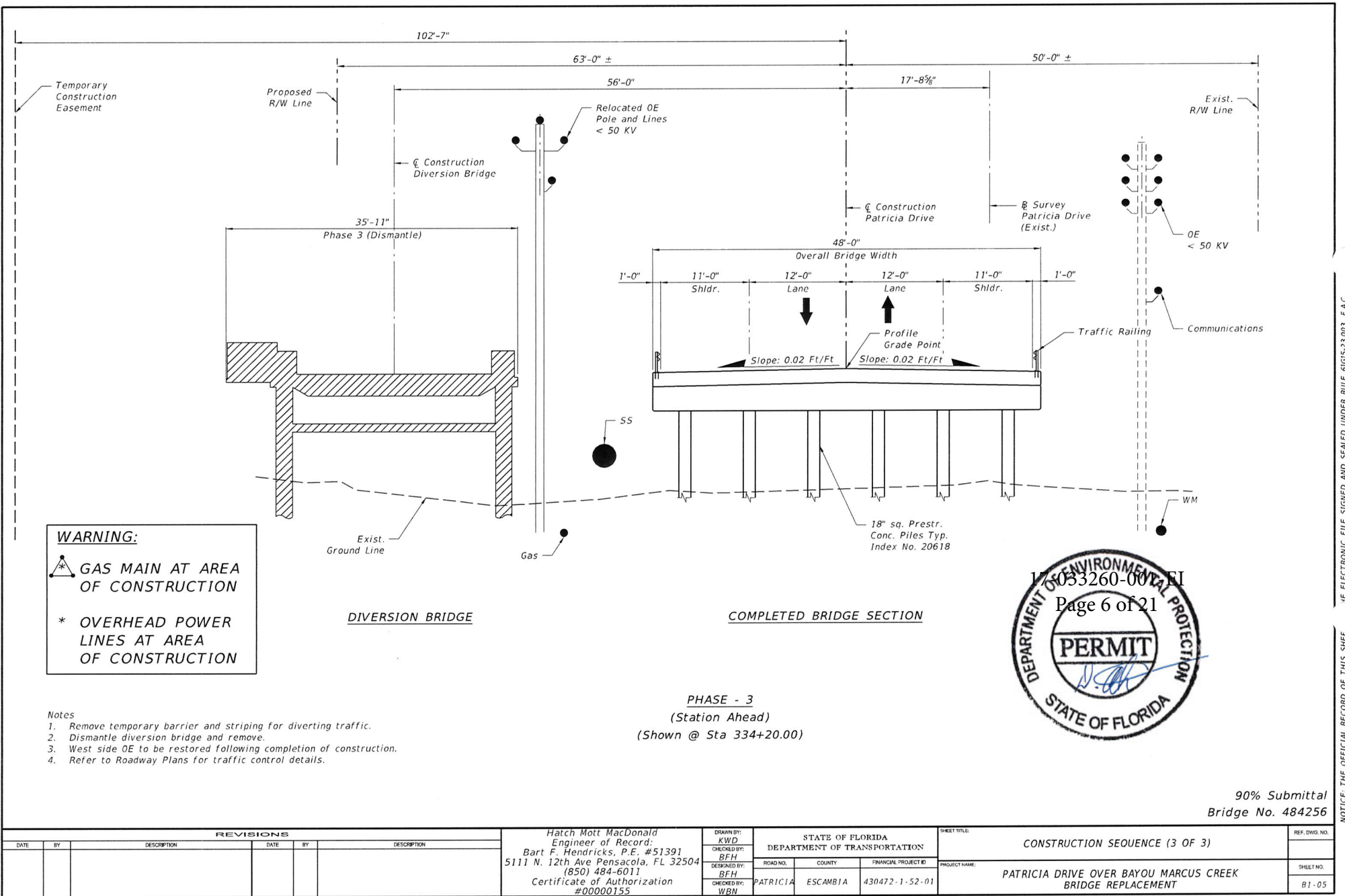
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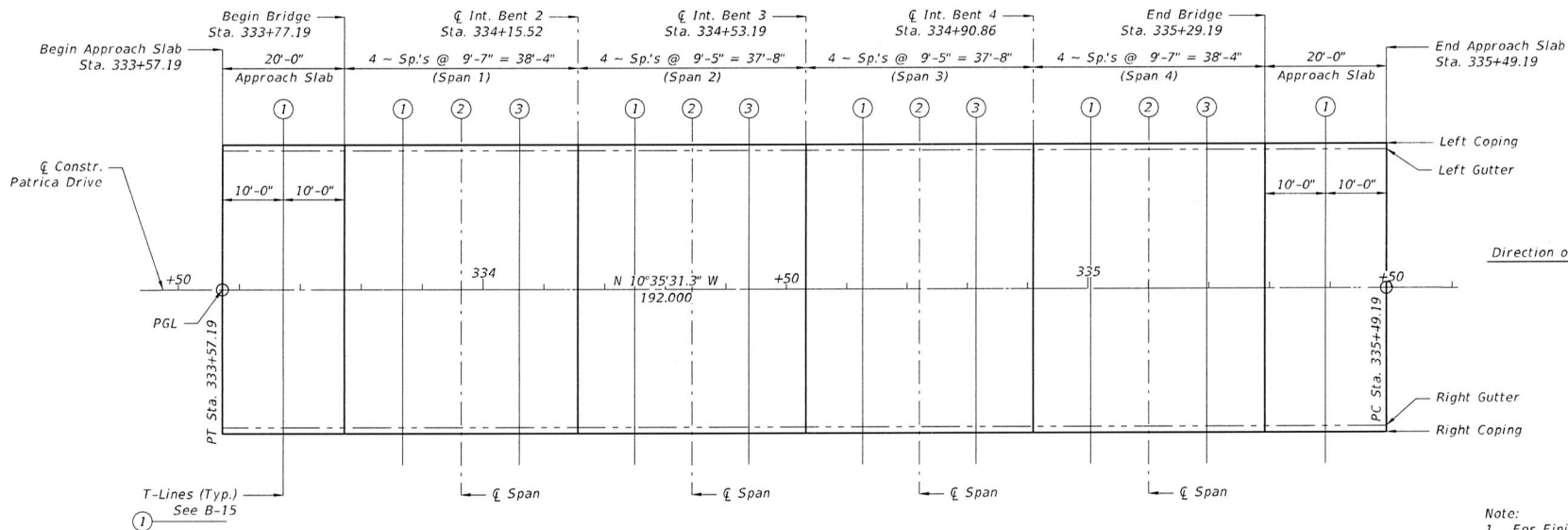
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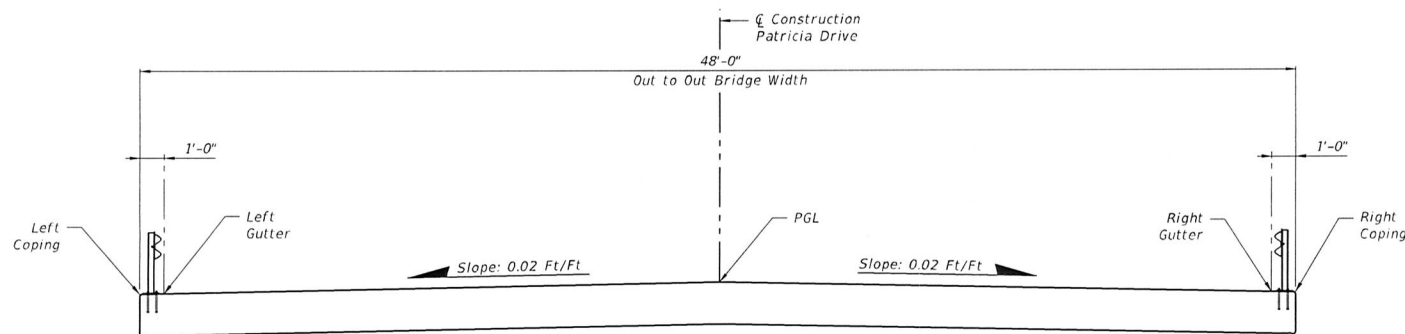
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PLAN



TYPICAL SECTION SHOWING LOCATIONS OF ELEVATIONS
ALL SPANS



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Page 7 of 21

90% Submittal
Bridge No. 484256

REVISIONS						DRAWN BY: KWD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: FINISH GRADE ELEVATIONS (1 OF 2)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CHECKED BY: BFH					
						DESIGNED BY: BFH					
						CHECKED BY: WRN	PATRICIA	ESCAMBIA	430472-1-52-01	PROJECT NAME: PATRICIA DRIVE OVER BAYOU MARCUS CREEK BRIDGE REPLACEMENT	SHEET NO. B1-14

Hatch Mott MacDonald
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#00000155

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FINISH GRADE ELEVATIONS - APPROACH SLABS						
Location	Begin Approach Slab	1	Begin Bridge End Bent 1	End Bridge End Bent 5	1	End Approach Slab
Left Coving	15.539	15.826	16.093	17.531	17.454	17.355
Left Gutter	15.559	15.846	16.113	17.551	17.474	17.375
PGL	16.499	16.786	17.053	18.491	18.414	18.315
Right Gutter	15.559	15.846	16.113	17.551	17.474	17.375
Right Coving	15.539	15.826	16.093	17.531	17.454	17.355

FINISH GRADE ELEVATIONS - SPAN 1					
Location	Begin Bridge End Bent 1	1	Mid-Span 2	3	Centerline Bent 2
Left Coving	16.093	16.328	16.544	16.740	16.917
Left Gutter	16.113	16.348	16.564	16.760	16.937
PGL	17.053	17.288	17.504	17.700	17.877
Right Gutter	16.113	16.348	16.564	16.760	16.937
Right Coving	16.093	16.328	16.544	16.740	16.917

FINISH GRADE ELEVATIONS - SPAN 2					
Location	Centerline Bent 2	1	Mid-Span 2	3	Centerline Bent 3
Left Coving	16.917	17.072	17.208	17.325	17.423
Left Gutter	16.937	17.092	17.228	17.345	17.443
PGL	17.877	18.032	18.168	18.285	18.383
Right Gutter	16.937	17.092	17.228	17.345	17.443
Right Coving	16.917	17.072	17.208	17.325	17.423

FINISH GRADE ELEVATIONS - SPAN 3					
Location	Centerline Bent 3	1	Mid-Span 2	3	Centerline Bent 4
Left Coving	17.423	17.503	17.564	17.606	17.629
Left Gutter	17.443	17.523	17.584	17.626	17.649
PGL	18.383	18.463	18.524	18.566	18.589
Right Gutter	17.443	17.523	17.584	17.626	17.649
Right Coving	17.423	17.503	17.564	17.606	17.629

FINISH GRADE ELEVATIONS - SPAN 4					
Location	Centerline Bent 4	1	Mid-Span 2	3	End Bridge End Bent 5
Left Coving	17.629	17.634	17.619	17.585	17.531
Left Gutter	17.649	17.654	17.639	17.605	17.551
PGL	18.589	18.594	18.579	18.545	18.491
Right Gutter	17.649	17.654	17.639	17.605	17.551
Right Coving	17.629	17.634	17.619	17.585	17.531



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Page 8 of 21

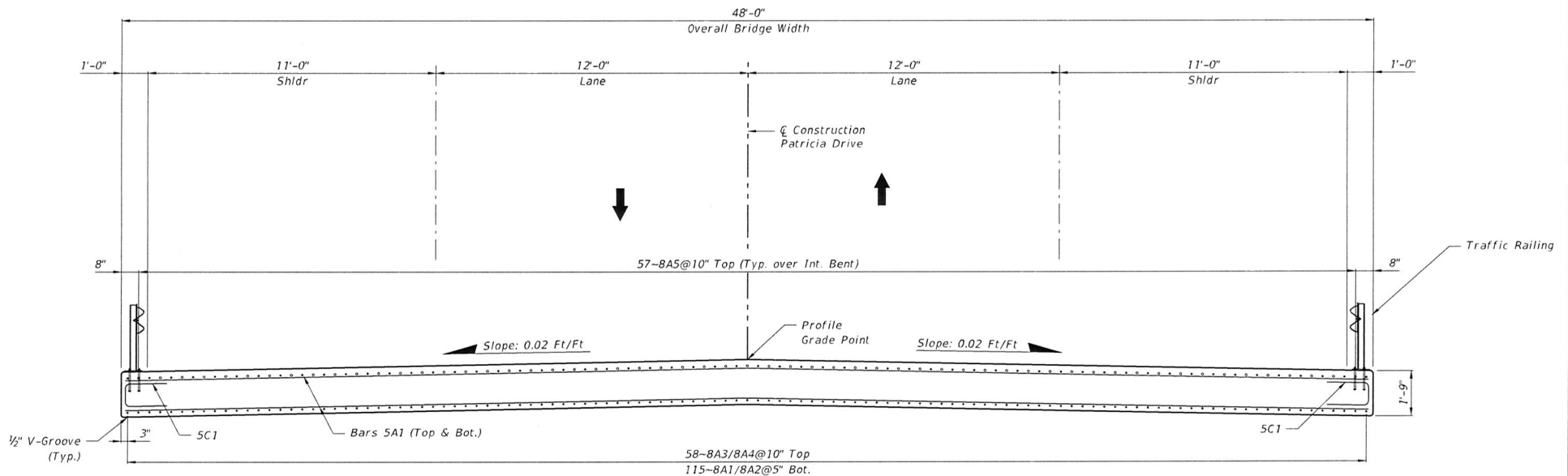
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Bridge No. 484256

REVISIONS						DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY: KWD	CHECKED BY: BFH	DESIGNED BY: BFH	CHECKED BY: WRN	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT NAME: PATRICIA DRIVE OVER BAYOU MARCUS CREEK BRIDGE REPLACEMENT	SHEET TITLE: FINISH GRADE ELEVATIONS (2 OF 2)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION											ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
																PATRICIA	ESCAMBIA	430472-1-52-01			

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TYPICAL SUPERSTRUCTURE SECTION
(Station Ahead)

Notes:

1. For Reinforcing Bar List, see sheet B1-24
2. For Estimated Quantities, see sheet B01-01.



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Bridge No. 484256

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
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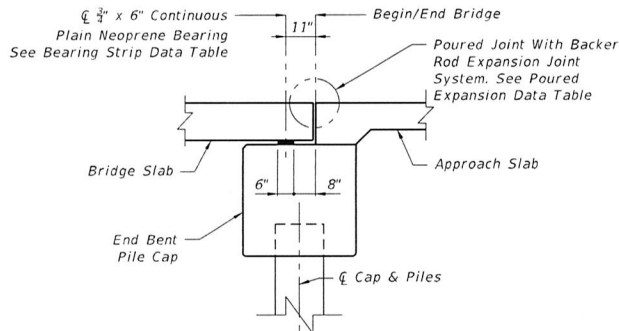
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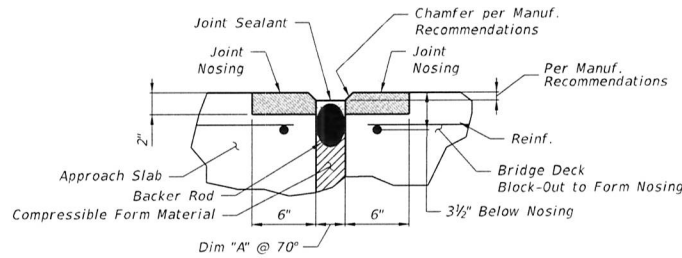
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SECTION THRU END BENT



TYPICAL SECTION THRU JOINT

POURED EXPANSION JOINT DATA TABLE INDEX NO. 21110				Table Date 1-01-09
LOCATION	DIM. "A" @ 70°F	TOTAL DESIGN MOVEMENT	DIM. "A" ADJUSTMENT PER 10°F	
Begin/End Bridge	1"	3/16"	+1/16", -0"	

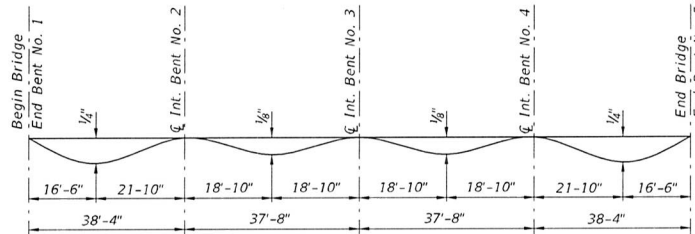
NOTE:
Dim. "A" adjustment per 10°F shown is measured perpendicular to ϕ Expansion Joint. Work this table with Design Standards Index No. 21110.

Poured Expansion Joint Notes:

1. Install Poured Joint with Backer Rod Expansion Joint System in accordance with Index 21110 with modification shown to include joint nosing material.
2. Joint nosing material shall be either a polymer mortar or elastomeric concrete designed and tested by the manufacturer to be used with the QPL sealant to produce a bridge deck joint sealant system meeting the movement requirements shown in the Poured Expansion Joint Data Table. The system shall have a 5-year minimum history of successful use on FDOT projects and shall be covered by warranty according to section 425.
3. Prepare the surface and install the nosing and joint materials as recommended by the manufacturer.
4. Payment for the joint system shall be made per linear foot under Pay Item 458-1-11, Bridge Deck Expansion Joint, New Construction. Measurement shall be actual length along joint center line between outer limits shown on the plan details including lengths in curbs and barriers. All work and materials necessary to complete the installation of the joint as described in the installation notes and as recommended by the manufacturer shall be included in the indicated pay item.
5. For temperatures below 70°F, at the time the joint is constructed, increase the joint opening "A" dimension per 10° as shown in the Data Table. Do not change dimension "A" for temperatures above 70°F.

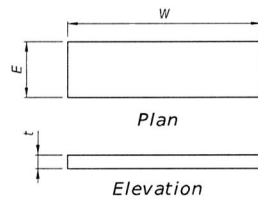
BEARING STRIP DATA TABLE				
BEARING STRIP TYPE	W (in.)	E (in.)	t (in.)	SHEAR MODULUS, G (psi)
1	64	6	0.75	150

- NOTES:
1. Bearing strips shall be plain neoprene.
 2. Cost of bearing strips are incidental to cost of Class II Concrete, Superstructure.

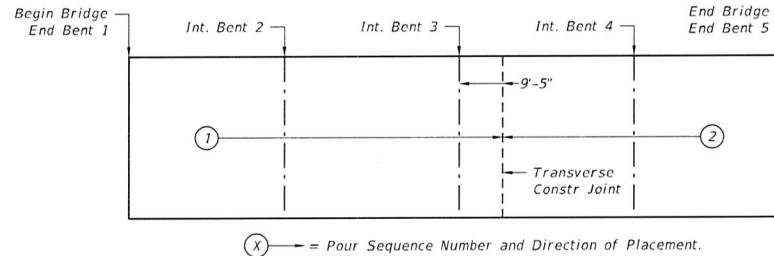


DEAD LOAD DEFLECTION DIAGRAM

ESTIMATED BEARING STRIP QUANTITIES		
PAD TYPE	NUMBER REQUIRED	QUANTITY (CF)
1	18	3



BEARING STRIP DETAIL



SUPERSTRUCTURE CASTING SEQUENCE

PLACING DECK SLAB CONCRETE NOTES:

1. No unit shall be placed adjacent to a previously placed unit that is not a minimum of 72 hours old.
2. After placement of the first unit, succeeding placements shall begin at the end away from and proceed toward the previously placed unit.
3. Units with identical labels may be placed individually or simultaneously.
4. The Contractor may submit for approval a revised casting sequence. The submittal shall include structural analysis by the Specialty Engineer reflecting the new casting sequence and its effect on the Camber Diagram. The revision shall be in conformance with Chapter 28 of the Plans Preparation Manual.

90% Submittal
Bridge No. 484256

REVISIONS						SHEET TITLE:			REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	SUPERSTRUCTURE DETAILS			
Hatch Mott MacDonald Engineer of Record: Bart F. Hendricks, P.E. #51391 5111 N. 12th Ave Pensacola, FL 32504 (850) 484-6011 Certificate of Authorization #00000155						STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID PATRICIA ESCAMBIA 430472-1-52-01			
						PROJECT NAME: PATRICIA DRIVE OVER BAYOU MARCUS CREEK BRIDGE REPLACEMENT			SHEET NO. B1-18

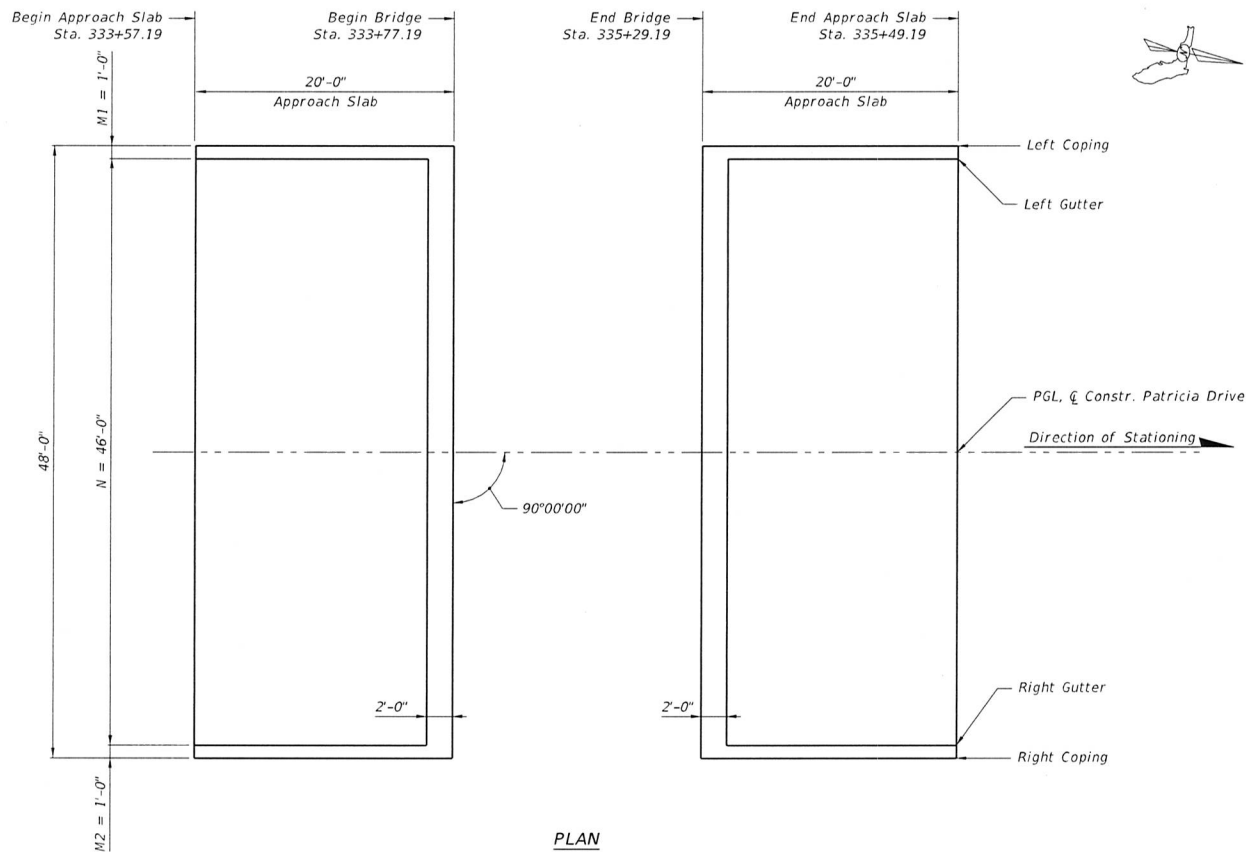
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Notes:

1. Work this sheet with Standard Index 20900, PLAN VIEW (CASE 1), with L1 minimum reduced to 20'-0".
2. For Finish Grade Elevations, see B1-15.

PLAN



APPROACH SLAB INDEX NO. 20900 TABLE OF DIMENSIONS AND ESTIMATED QUANTITIES

Table Date 01-01-12

LOCATION	DIMENSIONS					ANGLE Ø	REINFORCING STEEL (Lbs.)	CLASS II (Bridge Deck) CONCRETE (C.Y.)
	L1	L2	M1	M2	N			
Begin Bridge	20'-0"	20'-0"	1'-0"	1'-0"	46'-0"	0°	6795	39.9
End Bridge	20'-0"	20'-0"	1'-0"	1'-0"	46'-0"	0°	6795	39.9

Dimension and Quantity Notes:

Dimensions L1 & L2 are measured along gutter line, inside face of parapet or inside face of railing on raised sidewalks.
Dimensions L1 & L2 are arc dimensions within curved alignments.

Quantities shown are for one Approach Slab and where applicable, raised sidewalks. Quantities do not include items placed on the slab such as Traffic Railing, Pedestrian/Bicycle Railings or Traffic Separators.

For Traffic Railing, Pedestrian/Bicycle Railing and Traffic Separator Quantities see Bid Item List.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Hatch Mott MacDonald
Engineer of Record:
Bart F. Hendricks, P.E. #51391
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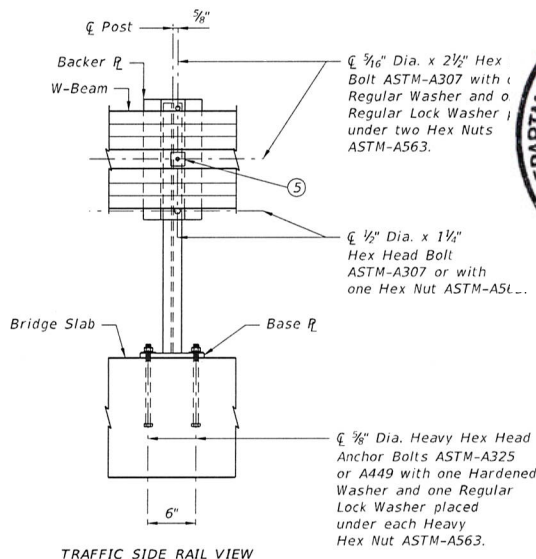
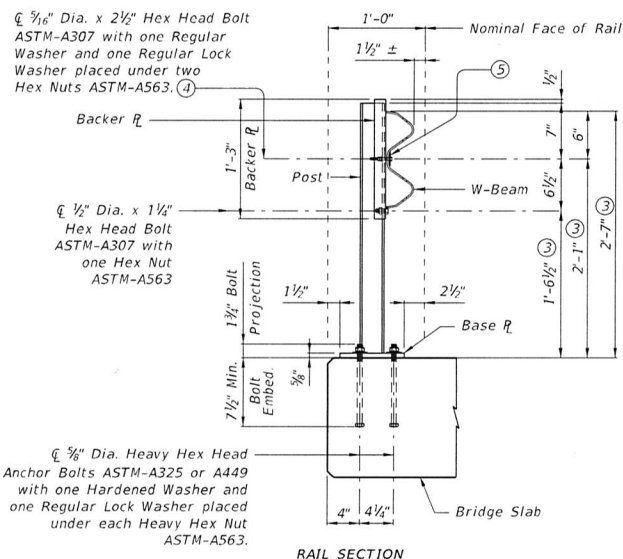
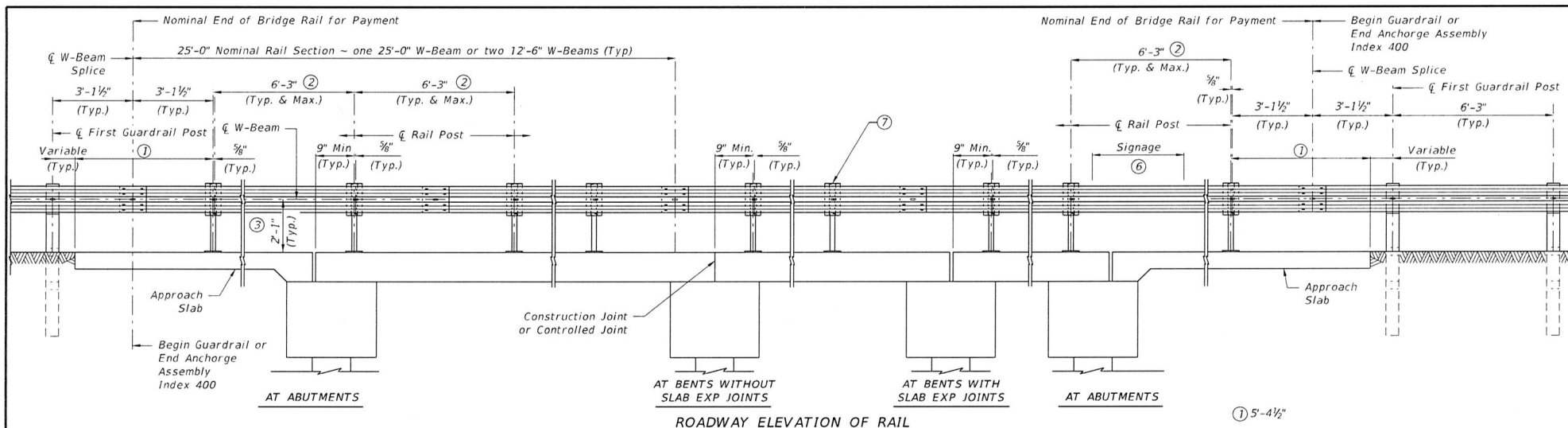
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DEPARTMENT OF TRANSPORTATION
ROAD NO. COUNTY FINANCIAL PROJECT ID
PATRICIA ESCAMBIA 430472-1-52-01

SHEET TITLE		REF. DWG. NO.
APPROACH SLAB		
PROJECT NAME:		SHEET NO.
PATRICIA DRIVE OVER BAYOU MARCUS CREEK BRIDGE REPLACEMENT		B1-19

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RAIL DETAILS ON BRIDGE SLAB



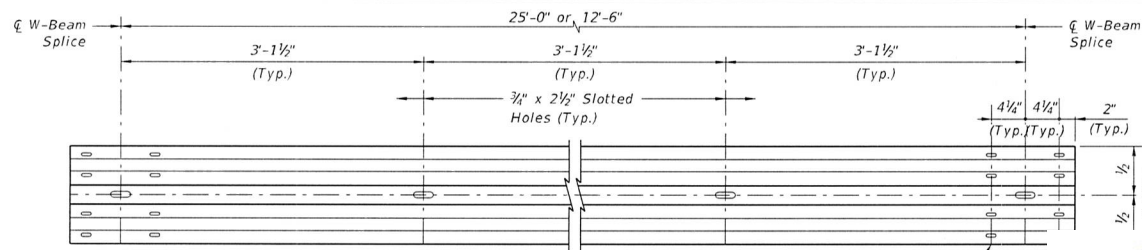
- ① 5'-4 1/2"
- ② Maintain 6'-3" Rail Post spacing wherever possible for use with nominal 25'-0" or 12'-6" W-Beam sections. Symmetry of post spacing on both sides and along the structure is not necessary.
- ③ Increase 2" for structures with overlay.
- ④ Tighten the first hex nut by hand until the top and bottom edges of the W-Beam engage the Backer Plate (Backer Plate should be snug against the post). Then tighten hex nut one revolution with wrench and secure with the second hex nut.
- ⑤ PL 1/8" x 1 3/4" x 1 3/4" with 3/8" Dia Hole centered in PL, ASTM-A36.
- ⑥ NAME, DATE, AND BRIDGE NUMBER:
The Name and Bridge Number shall be placed on the Traffic Railing so as to be seen on the driver's right side when approaching the bridge. The Date shall be placed on the driver's left side when approaching the Bridge. The Name shall be as shown in the General Notes in the Structures Plans. Date shall be the year the bridge is completed. Use black plastic letters and figures 3" in height placed on the top of the W-Beam rail as shown in Index 400, Detail M.
- ⑦ BARRIER DELINEATORS:
Barrier Delineators shall meet Specification Section 99. Install Barrier Delineators on top of the Traffic Railing Post at the spacing shown in the table above. Barrier Delineator color (white or yellow) shall match the color of the near edgeline. The cost of the Barrier Delineators shall be included in the Contract Unit Price for the Traffic Railing.

BARRIER DELINEATOR SPACING	
Distance - Edge of Travel Lane to Face of Railing	Spacing (FT)
< 4'	40'
4' to 8'	80'
> 8'	None Required

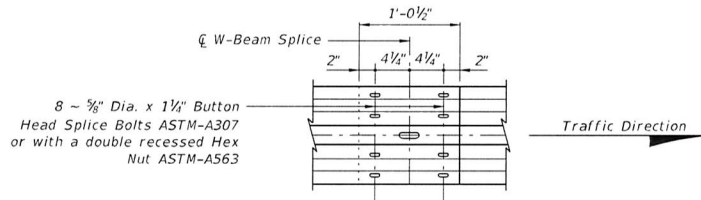
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Bridge No. 484256

REVISIONS				Hatch Mott MacDonald Engineer of Record Bart F. Hendricks, P.E. #51391 5111 N. 12th Ave Pensacola, FL 32504 (850) 484-6011 Certificate of Authorization #00000155				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE: TRAFFIC RAIL (1 OF 2)		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:			
						PATRICIA	ESCAMBIA	430472-1-52-01	PATRICIA DRIVE OVER BAYOU MARCUS CREEK BRIDGE REPLACEMENT			
												B1-20

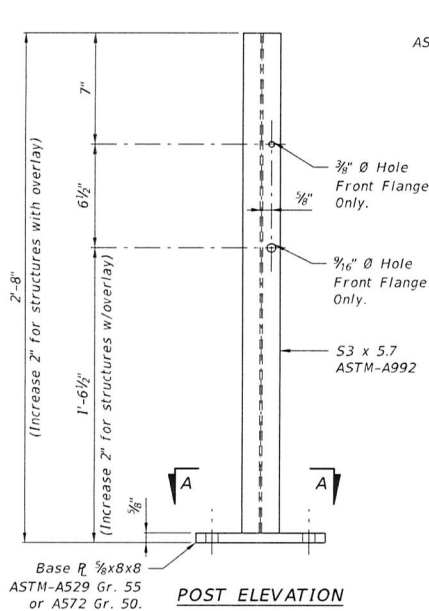
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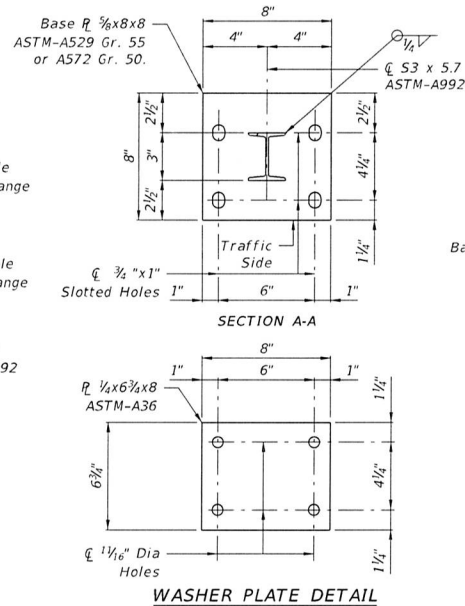
W-BEAM ELEVATION



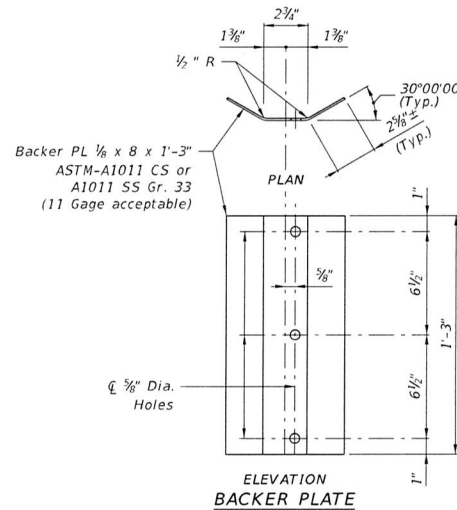
W-BEAM SPLICE ELEVATION



POST ELEVATION



SECTION A-A
WASHER PLATE DETAIL



ELEVATION
BACKER PLATE

CONSTRUCTION NOTES:

1. Face of rail post must be plumb unless otherwise approved by the Engineer. Post must be perpendicular to adjacent roadway grade. Use epoxy mortar under post base plates if gaps larger than 1/16" exist.
2. Fully anchored guardrail must be attached to each end of rail. This rail does not use a bridge anchorage assembly or a transition section.
3. Fabricator must submit erection drawings to the Engineer for approval. Round or chamfer exposed edges of rail post and backer plate to approximately 1/16" by grinding. Shop drawings are not required for this rail.

MATERIAL NOTES:

1. Galvanize all steel components according to Standard Specifications Section 967.
2. Anchor bolts for base plate must be 3/4" Dia. ASTM-A325 or A449 bolts with one hardened washer and one regular lock washer placed under each heavy hex nut. Nuts must conform to A563 requirements.
3. W-beam must meet the requirements of Index 400, Guardrail, except as modified in the plans. The Contractor may furnish rail elements of 25'-0", or 12'-6" (Nominal) lengths. W-Beam must have slotted holes at 3'-1 1/2".

GENERAL NOTES:

1. This railing has been successfully evaluated by full-scale crash test to meet MASH TL-2 criteria. This railing can be used for speeds of 45 mph and less.
2. This rail is designed to deflect approximately 2' to 2'-6" as it contains and redirects the errant vehicle. This rail may not be installed on top of or behind curbs that project above finished grade, on bridges with expansion joints providing more than 5" movement, on retaining walls, or on grade separations and interchanges.
3. Repairs to impact-damaged post and base plate unit are not permitted. Replace all impact-damaged posts with a new post and base plate unit.
4. Average weight of railing with no overlay: 13 plf total.

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Bridge No. 484256

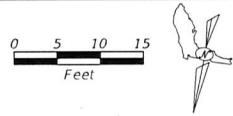
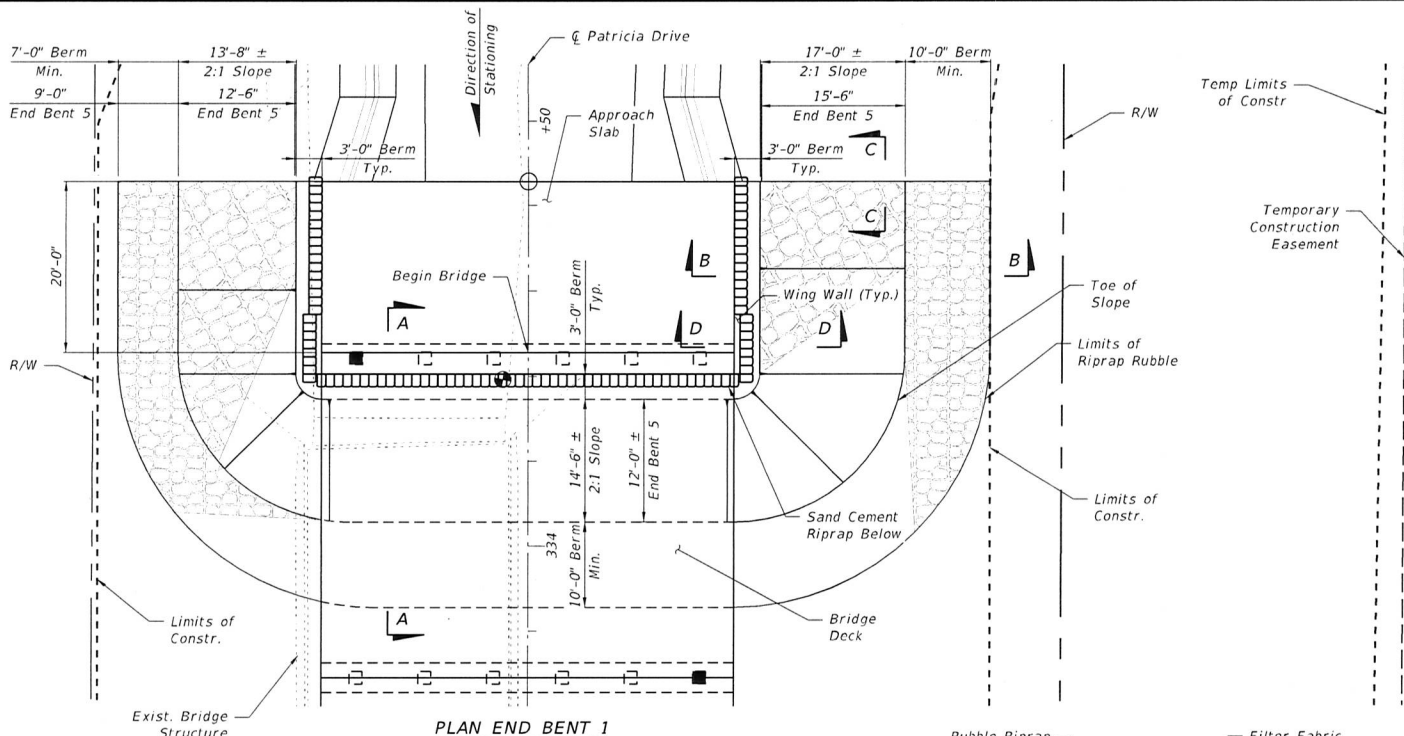
REVISIONS				Hatch Mott MacDonald Engineer of Record: Bart F. Hendricks, P.E. #51391 5111 N. 12th Ave Pensacola, FL 32504 (850) 484-6011 Certificate of Authorization #00000155				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				SHEET TITLE: TRAFFIC RAIL (2 OF 2)		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	PATRICIA DRIVE OVER BAYOU MARCUS CREEK BRIDGE REPLACEMENT		SHEET NO. B1-21		
						PATRICIA	ESCAMBIA	430472-1-52-01						

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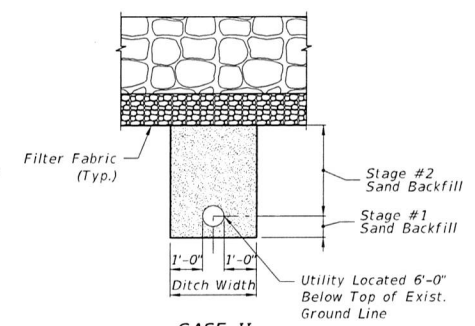
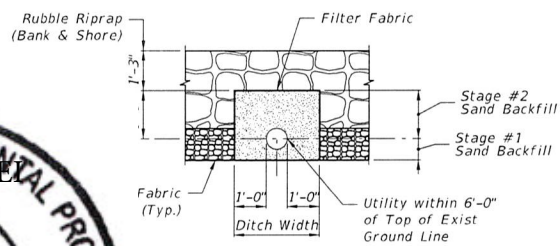
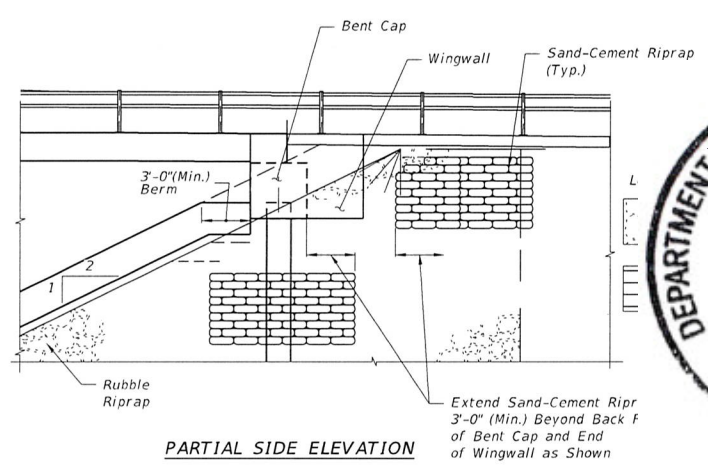
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- Notes:
1. The cost of the #4 Rebar driven through the sand-cement riprap is included in the cost of the sand-cement riprap.
 2. Costs for excavation and earthwork required to shape existing subgrade for placing bedding stone or riprap is incidental to 530-74, Bedding Stone.
 3. Estimated Quantities includes both abutments.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
Riprap (Sand-Cement)	CY	33.2
Riprap (Rubble)	TN	1140.2
Bedding Stone	TN	378.8

NOTE:
For section A-A, B-B, C-C, & D-D See Sheet B1-23.



backfill material is placed in accordance with Section 125 of the Standard Specifications.

• #1, construct compacted fill beneath the haunches of the pipe using mechanical tamps suitable for this purpose. Inaction applies to the material placed beneath the haunches of the pipe and above any bedding.

• #2, construct compacted fill along the sides of the pipe and up to the bottom of the base, with the upper 12" of Type B Stabilization. In lieu of Type B Stabilization, Optional Base Group 3 may be used.

sand backfill is clear of any aggregate to avoid damaging utility line coatings.

UTILITY PROTECTIONS DETAILS

90% Submittal
Bridge No. 484256

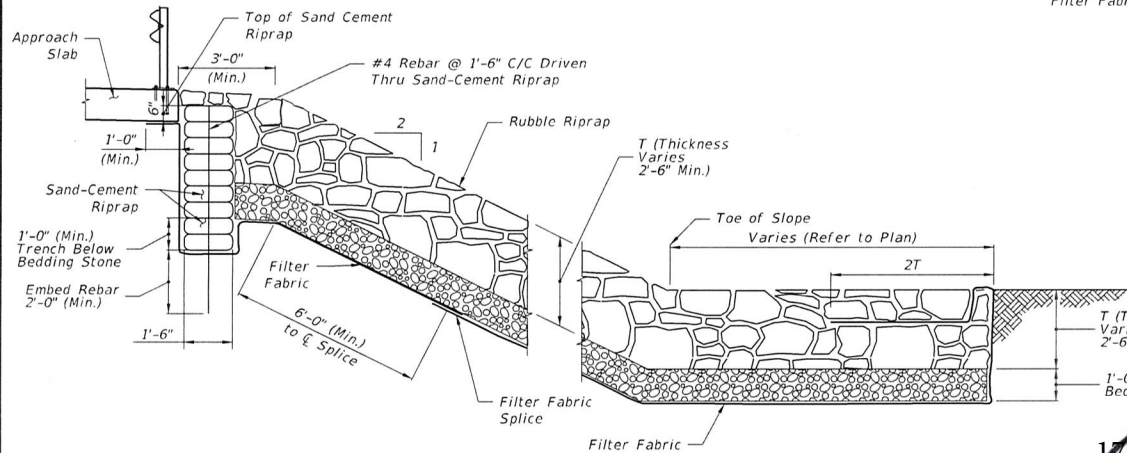
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						PATRICIA	ESCAMBIA	430472-1-52-01	PATRICIA DRIVE OVER BAYOU MARCUS CREEK BRIDGE REPLACEMENT			B1-22

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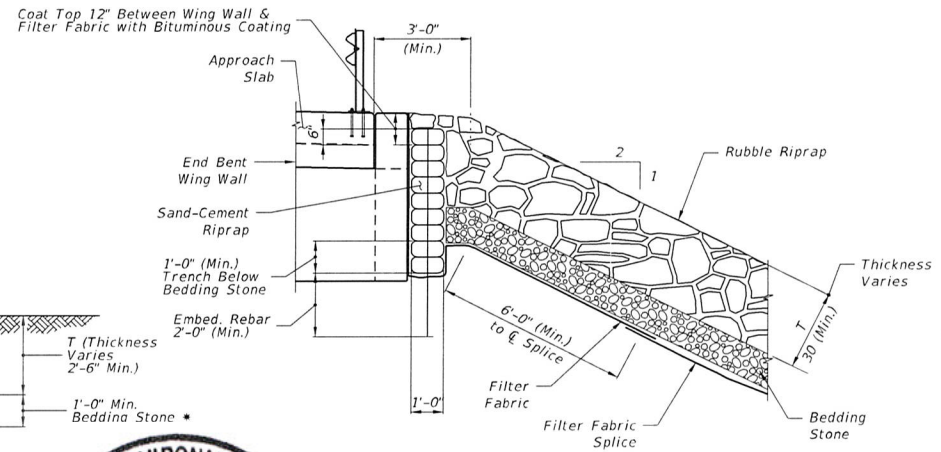
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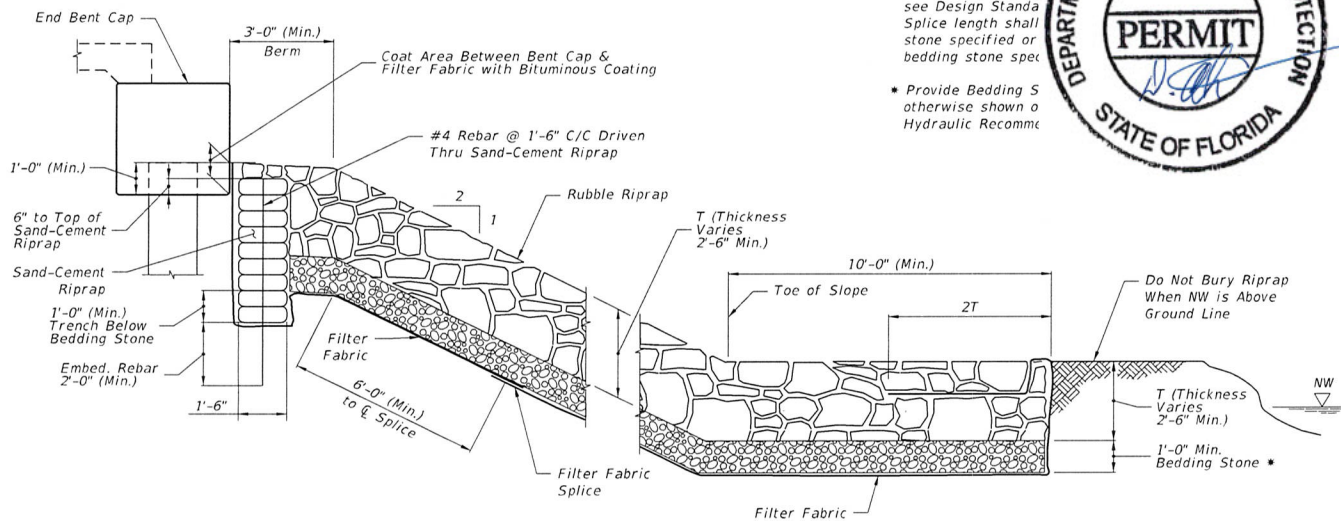
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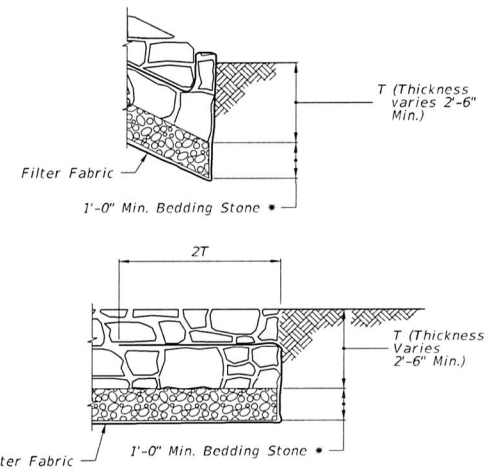
SECTION B-B



SECTION D-D

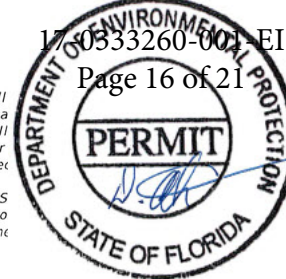


SECTION A-A



SECTION C-C

NOTE:
Filter Fabric shall see Design Standard
Splice length shall be as specified or bedding stone specified
* Provide Bedding Stone otherwise shown or Hydraulic Recommendation



Page 16 of 21

90% Submittal
Bridge No. 484256

REVISIONS				Hatch Mott MacDonald Engineer of Record: Bart F. Hendricks, P.E. #51391 5111 N. 12th Ave Pensacola, FL 32504 (850) 484-6011 Certificate of Authorization #00000155				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				SHEET TITLE SLOPE PROTECTION ADJACENT TO STREAMS (2 OF 2)		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	PATRICIA DRIVE OVER BAYOU MARCUS CREEK BRIDGE REPLACEMENT		SHEET NO. 81-23		
						PATRICIA	ESCAMBIA	430472-1-52-01						

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GENERAL NOTES

DESIGN SPECIFICATIONS:

1. FDOT Structures Manual Dated January 2015, Volume 1 and 2.
2. American Association of State Highway and Transportation Officials (AASHTO) LRFD Bridge Design Specifications (7th Edition) and approved interims as specified in the Structures Design Guidelines.
3. Acrow Panel Bridge Technical Handbook, 300 Series, 3rd Edition, 1983.

GOVERNING STANDARDS AND CONSTRUCTION SPECIFICATIONS:

Florida Department of Transportation, 2015 Design Standards and January 2015 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

VERTICAL DATUM:

Vertical Datum used is NAVD 88.

DESIGN METHOD:

1. Load and Resistance Factor Design Method (LRFD) for substructure with Strength Limit States III and V, Service Limit State I.
2. Load Factor Design (LFD) for the Acrow Panels.

DESIGN LOADING:

Live Load: HS20-44
.075 KSF Sidewalk

Dead Loads: Unit Weight of Acrow Panels = 1.26 K/ft
Concentrated Truss Load at Abutments = 0.25 K/side
Three-Beam Traffic Railing Barrier = 0.02 K/ft/side
Sidewalk Dead Load = 0.03 K/ft

Wind Loads: 0.45 K/ft on Transverse and Longitudinal Components,
AASHTO LRFD Table 3.8.1.2.2-1, FDOT Design Guidelines Ch. 2

STRUCTURAL STEEL:

1. All structural steel shall conform to ASTM A36.
2. Fasteners not included as Acrow bridge components shall conform to ASTM A307.
3. Weld details and the welding operation shall be in accordance with the current edition of the ANSI/AASHTO/AWS D1.5 bridge welding code.
4. All welds shall be 0.25" minimum unless otherwise noted.

STRUCTURAL TIMBER:

1. Timber may be treated or un-treated. Contractor supplies all timber.
2. Timber and Lagging shall be No. 1 Southern Yellow Pine.

STRUCTURAL END BENT FILL:

1. Fill shall meet the requirements of the Specifications for material and compaction.
2. Protect fill slope with 2'-6" thick Rubble Riprap Bank and Shore placed at 1:1.5 max. slope. Extend riprap 10'-0" min. around corners. Flat bottom berm not required.

FOUNDATION:

1. All foundation elements shall be constructed in accordance with Section 455 of the Specifications.
2. Use Design Standards Index 21630 for the typical pile installation. See pile layout and data table for location and required loads.
3. Use Design Standards Index 21620 for the backwall bent piles. Install backwall bent piles 10'-0" min. embedment into compacted backfill or soil with blow count greater than 6 (N>6). Backwall bent piles shall have a ultimate capacity greater than 18 tons.

DESIGN AND ERECTION:

1. The Contractor is responsible for the final design and construction of the temporary detour bridge. The scope of the Contractor's responsibility shall include the substructure and all aspects of the substructure interaction with the FDOT provided superstructure as well as the temporary abutment interface and the pedestrian walkway. The design shall be in accordance with the design criteria and shall be submitted to the Engineer for review and approval. The Contractor's Engineer of Record or Specialty Engineer will be the designer and Engineer of Record for the Temporary Detour Bridge. The Contractor's Engineer shall be prequalified by the FDOT in the following work groups: 4.1.2 and 9.4.1.
2. Contractor shall erect the detour bridge in accordance with the Specifications, these plans, the Acrow Bridge Technical Handbook, and the Design Standards 21600, 21620 and 21630.
3. Steel grid bridge flooring will be furnished by FDOT. The steel grid bridge flooring shall be brought into full contact with each transom and then securely fastened at each transom.
4. Provide distribution beams and distributing beam end frames for trusses at all intermediate supports
5. The Engineer shall approve final assembly of the Acrow bridge components prior to placing traffic on the bridge.

ACQUISITION OF TEMPORARY ACROW SUPERSTRUCTURE:

1. Contractor shall coordinate with and obtain from the FDOT storage facility listed on Design Standard Index 21600.
2. Contractor is responsible for all aspects of loading, transporting, assembly, and disassembly of the Acrow superstructure.
3. Contractor shall be responsible for damage to the Acrow bridge components which occurs while in His possession. FDOT inspection of Acrow bridge components will be upon return of the components to the FDOT structures shop.
4. Components of the pedestrian walkway or not supplied by FDOT. Contractor shall design and supply pedestrian walkway components.

SUBMITTAL REQUIREMENTS:

1. All designs regarding the temporary bridge shall be signed and sealed by a FDOT prequalified Engineer and submitted to the FDOT Engineer for review and approval before any work or material acquisition begins.
2. Submittals shall contain:
 - a. Signed and sealed design calculations
 - b. Signed and sealed plans
 - c. Test pile program, pile installation plan, and capacity certification
 - d. Erection methodology, schedule, sequence, and equipment for pile driving and bridge installation
 - e. Temporary storage location.

PAY ITEM NOTES:

1. FDOT will provide Acrow truss system and grating materials. Contractor to supply all other temporary bridge materials and components.
2. All costs associated with the temporary detour bridge shall be included in Pay Item 102-2-1, Special Detour, including but not limited to:
 - a. All design and engineering costs
 - b. Transporting Acrow components to and from project
 - c. All piling costs
 - d. All pedestrian walkway costs
 - e. All installation, maintenance, and removal of the temporary bridge.
 - f. All earthwork and slope protection costs for the abutment slopes
 - g. All costs associated with pulling or cutting, filling, or



90% Submittal
Bridge No. 484256

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT #		
						CHECKED BY: BFH	PATRICIA	ESCAMBIA	430472-1-52-01	PATRICIA DRIVE OVER BAYOU MARCUS CREEK BRIDGE REPLACEMENT	
						DESIGNED BY: BFH					
						CHECKED BY: WRN					

Hatch Mott MacDonald
Engineer of Record:
Bart F. Hendricks, P.E. #51391
5111 N. 12th Ave Pensacola, FL 32504
(850) 484-6011
Certificate of Authorization
#00000155

(10/27/18)

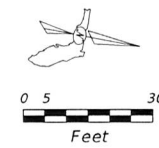
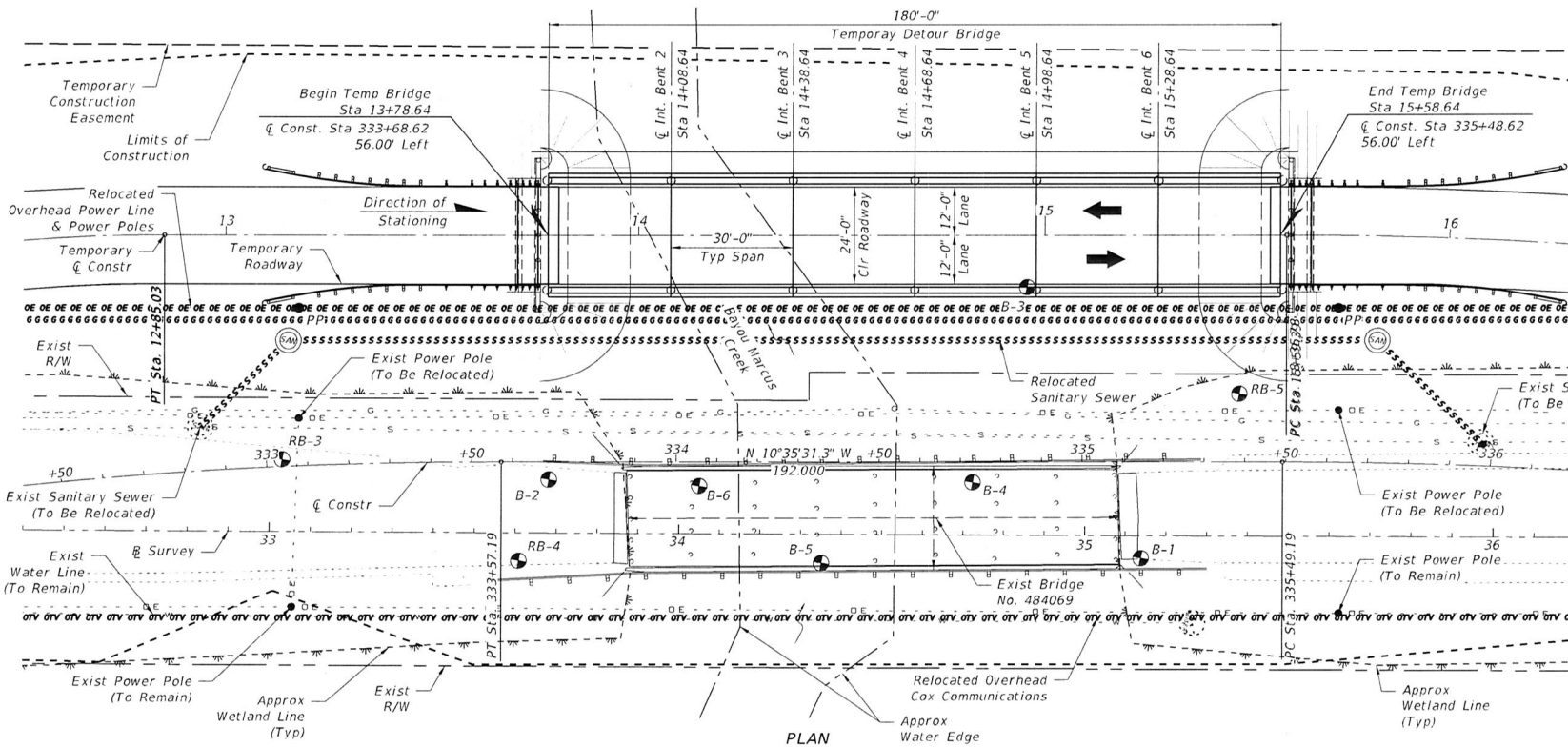
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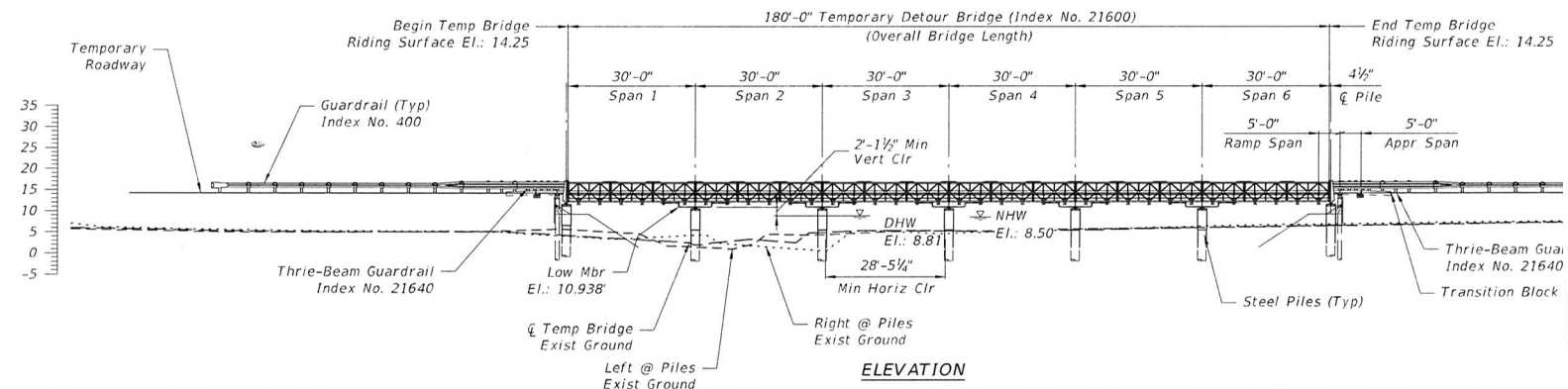
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HORIZONTAL CURVE DATA (TCP 1)
 P.I. Sta. 11+93.70
 $\Delta = 24^\circ 43' 41''$ Rt
 $D = 13^\circ 19' 29''$
 $T = 94.26$
 $L = 185.58$
 $R = 430.00$
 $C =$

HORIZONTAL CURVE DATA (TCP 2)
 P.I. Sta. 16+98.72
 $\Delta = 14^\circ 37' 24''$ Rt
 $D = 5^\circ 18' 19''$
 $T = 138.57$
 $L = 275.64$
 $R = 1080.00$
 $C =$



ELEVATION

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Hatch Mott MacDonald
 Engineer of Record:
 Bart F. Hendricks, P.E. #51391
 5111 N. 12th Ave Pensacola, FL 32504
 (850) 484-6011
 Certificate of Authorization
 #00000155

DRAWN BY: KWD CHECKED BY: BFH DESIGNED BY: BFH CHECKED BY: WRN	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID PATRICIA ESCAMBIA 430472-1-52-01
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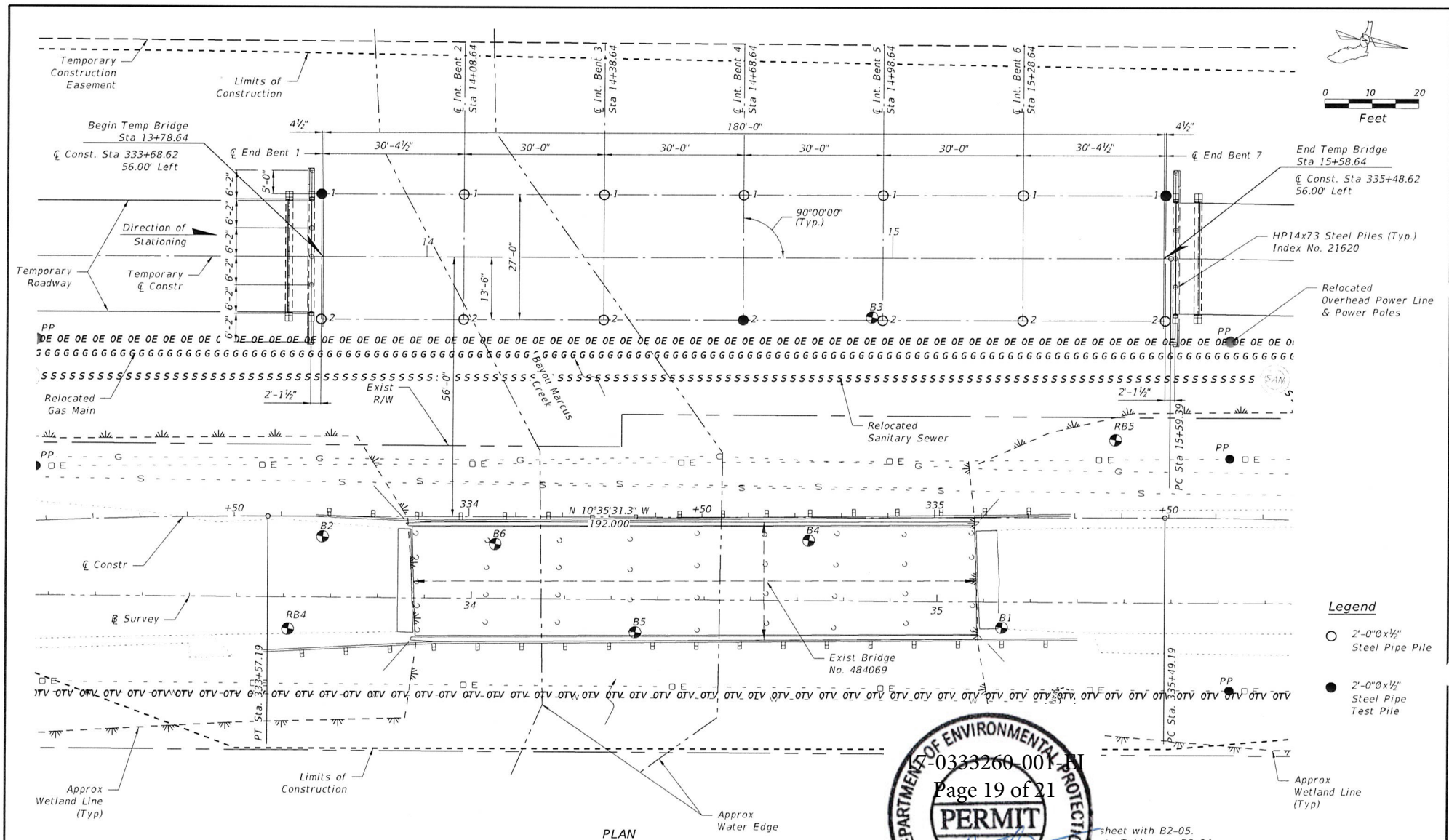
SHEET TITLE: PLAN
 PROJECT NAME: PATRICIA DRIVE BRIDGE REPLACEMENT



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 484256

REF. DWG. NO.	
SHEET NO.	B2-02

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Engineer of Record:
Bart F. Hendricks, P.E. #51391
5111 N. 12th Ave Pensacola, FL 32504
(850) 484-6011
Certificate of Authorization
#00000155

DRAWN BY: KWD	CHECKED BY: BFH	DESIGNED BY: BFH	CHECKED BY: WRN	ST. DEPARTMENT	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	PILE LAYOUT	REF. DWG. NO.
					PATRICIA	ESCAMBIA	430472-1-52-01	PATRICIA DRIVE OVER BAYOU MARCUS CREEK BRIDGE REPLACEMENT		
										SHEET NO.
										B2-03

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TEMPORARY BRIDGE PILE DATA TABLE												Table Date 07/01/13
INSTALLATION CRITERIA						DESIGN CRITERIA						PILE CUT-OFF ELEV.
BENT NUMBER	PILE SIZE and TYPE (in.)	NOMINAL BEARING RESISTANCE (tons)	MINIMUM TIP ELEVATION (ft.)	REQUIRED JET ELEVATION (ft.)	REQUIRED PREFORM ELEVATION (ft.)	FACTORED DESIGN LOAD (tons)	DOWN DRAG (tons)	TOTAL SCOUR RESISTANCE (tons)	NET SCOUR RESISTANCE (tons)	DESIGN SCOUR ELEVATION (ft.)	Ø COMPRESSION (0.45 = default)	
End Bent 1	24"Ø	123	-15	N/A	N/A	80	N/A	N/A	N/A	N/A	0.65	11.390
Int. Bent 2-6	24"Ø	171	-20	N/A	N/A	111	N/A	N/A	N/A	N/A	0.65	10.480
End Bent 7	24"Ø	123	-15	N/A	N/A	80	N/A	N/A	N/A	N/A	0.65	11.390

$$\frac{\text{Factored Design Load} + \text{Net Scour Resistance} + \text{Down Drag}}{\phi} \leq \text{Nominal Bearing Resistance}$$

TOTAL SCOUR RESISTANCE - An estimate of the ultimate static side friction resistance provided by the scourable soil.

NET SCOUR RESISTANCE - An estimate of the ultimate static side friction resistance provided by the soil from the required preformed or jetting elevation to the scour elevation.

DESIGN SCOUR ELEVATION - Estimated elevation of scour due to the design storm event.

PILE INSTALLATION NOTES:

- Contractor to verify location of all utilities prior to any pile installation activities.
- Minimum Tip Elevation is required for lateral stability.
- When a required jetting elevation is shown, the jet shall be lowered to the elevation and continue to operate at this elevation until the pile driving is completed. If jetting or preforming elevations differ from those shown on the table, the Specialty Engineer shall be responsible for determination of the required driving resistance.
- No jetting will be allowed without the approval of the Engineer.
- The Contractor should not anticipate being allowed to jet piles below the design scour elevation or required jet elevation, whichever is deeper.
- At each Bent, pile driving is to commence at the center of the Bent and proceed outward.
- For Pile Layout, see B2-03



90% Submittal
Bridge No. 484256

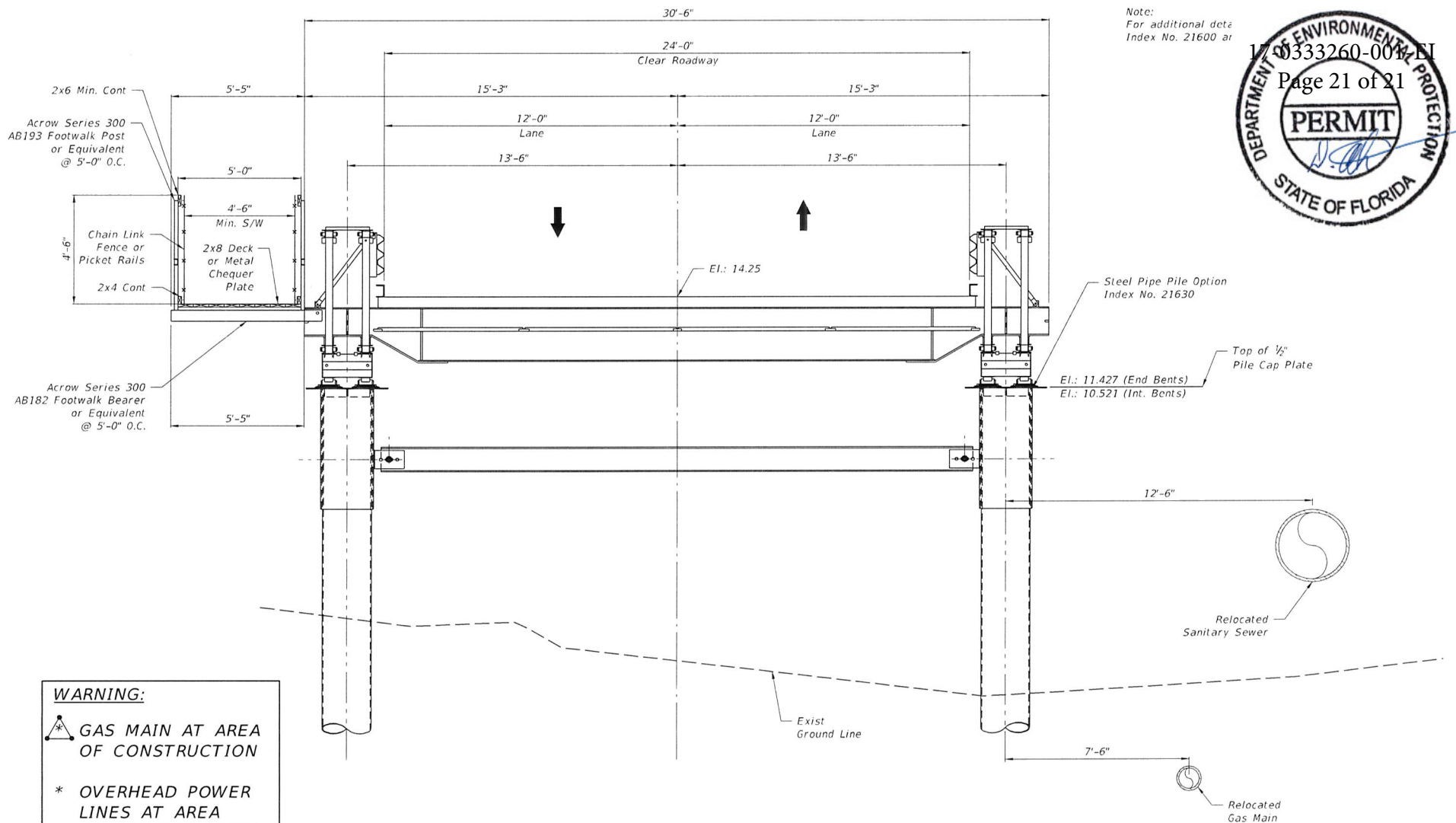
REVISIONS						Hatch Mott MacDonald Engineer of Record: Bart F. Hendricks, P.E. #51391 5111 N. 12th Ave Pensacola, FL 32504 (850) 484-6011 Certificate of Authorization #00000155	DRAWN BY: KWD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CHECKED BY: BFH	DEPARTMENT OF TRANSPORTATION			PILE DATA TABLE	
							DESIGNED BY: BFH	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
							CHECKED BY: WRN	PATRICIA	ESCAMBIA	430472-1-52-01	PATRICIA DRIVE OVER BAYOU MARCUS CREEK BRIDGE REPLACEMENT	B2-04

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Engineer of Record:
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Note:
For additional details
Index No. 21600 at



WARNING:

* GAS MAIN AT AREA
OF CONSTRUCTION

* OVERHEAD POWER
LINES AT AREA
OF CONSTRUCTION

TYPICAL SECTION THRU TEMPORARY BRIDGE

(Station Ahead)
(Shown @ Sta 334+20.00)

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Bridge No. 484256

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CHECKED BY: BFH	PATRICIA	ESCAMBIA	430472-1-52-01	PROJECT NAME: PATRICIA DRIVE OVER BAYOU MARCUS CREEK BRIDGE REPLACEMENT	SHEET NO. B2-05
Hatch Mott MacDonald Engineer of Record: Bart F. Hendricks, P.E. #51391 5111 N. 12th Ave Pensacola, FL 32504 (850) 484-6011 Certificate of Authorization #00000155						DESIGNED BY: BFH					
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