



JOHN BEL EDWARDS  
GOVERNOR

*State of Louisiana*  
DEPARTMENT OF WILDLIFE AND FISHERIES

CHARLIE MELANCON  
SECRETARY

Louisiana Natural & Scenic River System  
**SCENIC RIVER PERMIT #967 (EMERGENCY)**

Issue/Effective Date: June 8, 2016

Scenic River: Rattlesnake Branch

Recipient: City of Covington

c/o Richard C. Lambert Consultants

Attn: Garrett Alvero

900 West Causeway Approach

Mandeville, LA 70471

Description: Emergency Repair of a Culvert Crossing at W. 15<sup>th</sup> Avenue

This permit is issued by authority of Part II of Chapter 8, Title 56 of the LRS of 1950 as amended and re-enacted regarding the Louisiana Natural & Scenic Rivers System and the administrative procedures pertaining to the management of these watercourses designated as Scenic Rivers.

The permit is issued by the Administrator with the understanding that the recipient in implementation of the proposal will proceed in compliance with, and not significantly deviate from the provisions contained in the petition for the permit and any special conditions attached hereto. The permit holder is expected to minimize adverse impacts to the structural and functional integrity of the natural systems and aesthetics associated with the Scenic River where the activity is occurring so as to preserve the fundamental character and purpose for which the System was established.

The Administrator assumes no responsibility for or incurs no liability for any injury to persons or property caused by any act of the permit holder or his agent in the permission granted by this permit. In addition to the Department of Wildlife & Fisheries, the petition was given a full and thorough evaluation by the Louisiana Departments of Agriculture & Forestry; Culture, Recreation & Tourism; Environmental Quality; and the Office of State Planning and Budget. If during the review process objections were made to the proposed activity, those objections were either found to be insignificant or they have been included in the conditions of the permit.

This permit shall expire if the permitted activity has not begun within 18 months of the "Issue Date" indicated above.

Compliance with these conditions is necessary for this permit to be valid:

General Conditions:

- 1) Adequate erosion/sediment control measures are to be taken during the implementation of this project to insure that no sediments or other construction/activity related debris are allowed to enter Rattlesnake Branch.
- 2) All other applicable permits not contingent upon this permit from governmental entities will be acquired and their conditions implemented with fidelity. Applicant has title to the property or permission from the landowner to implement the project.
- 3) If during project activity, any sensitive archaeological, biological or botanical element is encountered, activity will temporarily cease and the permit holder will contact the Administrator to determine the disposition of that element or artifact.
- 4) This project must be carried out in a manner consistent with the design that the applicant submitted during the permit process and as depicted in the attached plats. Should significant physical modification to the project become necessary during implementation of the project or after its completion, the permit holder will submit a letter of explanation within one week of discovery to the Administrator to determine if another petition will be required.
- 5) Any authorization issued under the authority of this permit may not be transferred to another party without giving prior notice to the Scenic Rivers Program Coordinator.
- 6) The permittee shall allow representatives of LDWF to make periodic inspections to ensure the activity being performed is in accordance with the conditions of this permit.

Special Operating Conditions:

- 1) Upon completion of the activities authorized by this permit, the applicant shall immediately contact this Department (*Chris Davis at (225)765-2642 or Matt Weigel at (985)543-4777*). LDWF will review the completed activity to assure that all activities were performed in accordance with the conditions of this permit.
- 2) The applicant shall submit post-construction, photographic documentation of the proposed project to LDWF within 30 days following project completion.
- 3) Signs indicating that Rattlesnake Branch is a Louisiana designated Natural and Scenic River shall be placed at both approaches of the crossing.

- 4) The applicant shall ensure that all contractors, subcontractors, and workers are made fully aware of the limits of the work authorized by this permit and adhere to and comply with all conditions listed in this Scenic River permit. Non-compliance with permit terms and conditions may result in permit suspension or revocation.
- 5) The applicant shall remove all rip rap, cement slabs, culverts, and other man made debris located within and adjacent to the stream bed of the existing crossing's right of way. This material shall be hauled to an off-site location.

If you need any additional information, you may contact Chris Davis, Scenic Rivers Coordinator, in the Baton Rouge Office at (225) 765-2642.

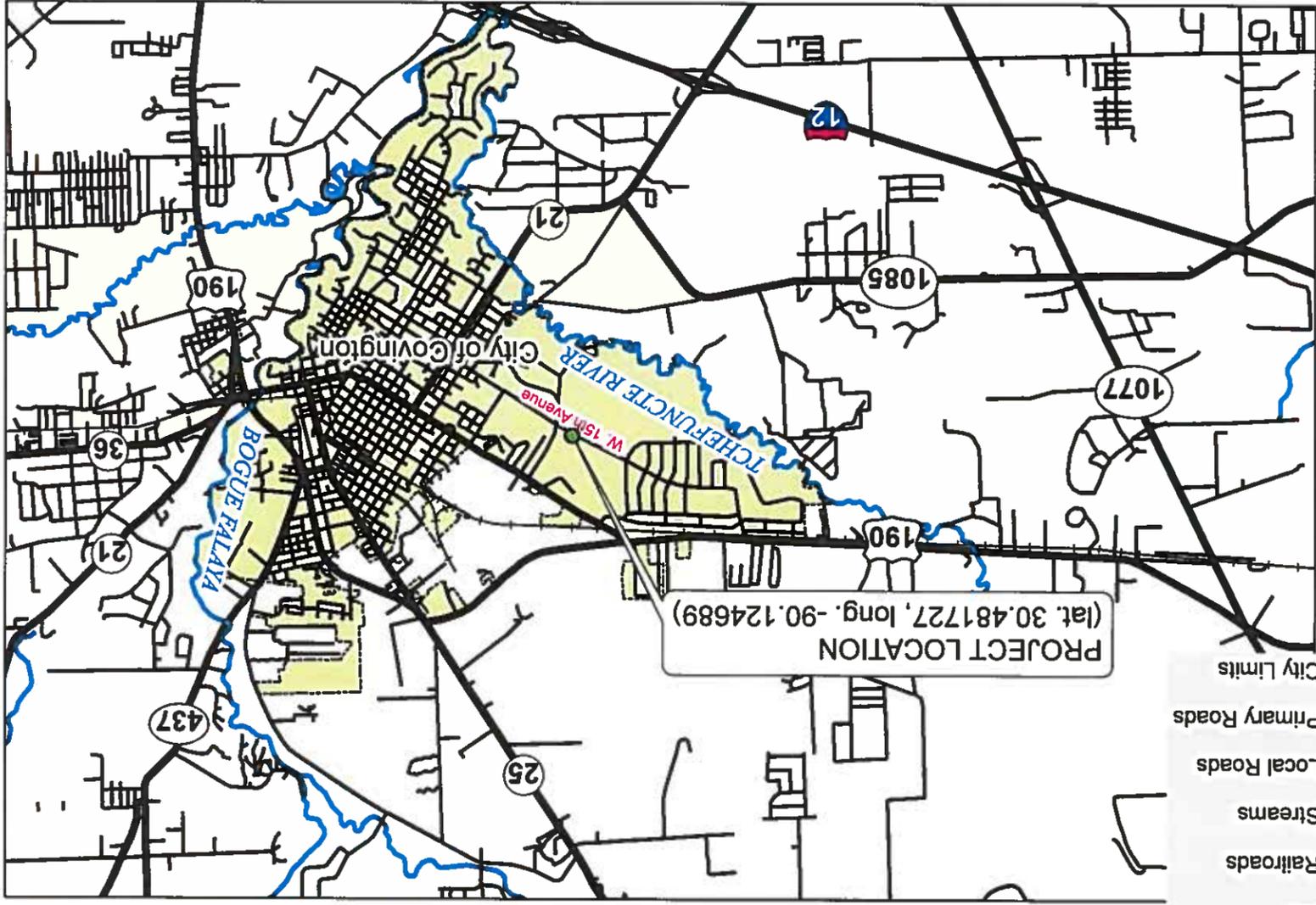


Charlie Melancon  
Administrator

6-8-16  
C.M.  
"Final Plans"



# 15th AVENUE CULVERT WASHOUT REPAIR



**Legend**

- City Limits
- Primary Roads
- Local Roads
- Streams
- Railroads

# W. 15TH AVENUE CULVERT WASHOUT REPAIR CITY OF COVINGTON

ST. TAMMANY PARISH, LOUISIANA

### INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TOPOGRAPHIC SURVEY
3	BASELINE LAYOUT
4	DEMOLITION PLAN
5	EXISTING SITE PHOTOGRAPHS
6	CULVERT LAYOUT
7	GENERAL NOTES
8	SUMMARY OF ESTIMATED QUANTITIES TYPICAL SECTION

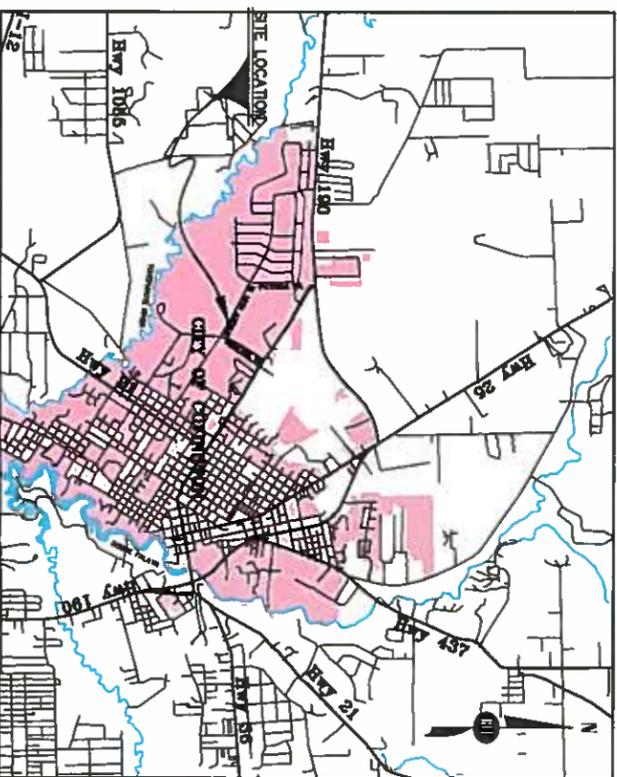
### STANDARD PLANS

SHEET NO.	REVISION DATE
207	11-14-97
208, 209	10-05-05
210, 211	8-22-07

DATE	REVISION

### TYPE OF CONSTRUCTION

REMOVAL AND REBARRING OF QUADRUPLE BARRED DRAINAGE CULVERT. WORK ADDITIONALLY INCLUDES REMOVAL AND REPLACEMENT OF EXISTING ASPHALT ROADWAY.



LOCATION MAP  
SCALE: 1" = 300'

DATA USED: N/A  
MAG. VAR.: N/A  
BALANCE ARE.: GRID (NAD 83)  
TYPICAL BOOKS: N/A  
LEVEL BOOKS: N/A

NOTE: THE SLOPE OF THE EXISTING GROUND SURFACE SHALL BE MAINTAINED TO THE MAXIMUM EXTENT POSSIBLE. ANY CHANGES TO THE EXISTING GROUND SURFACE SHALL BE INDICATED BY SPECIAL PROVISION AND/OR SUPPLEMENTAL SPECIFICATIONS SECTION.

**SURVEY REFERENCE:**  
A TOPographic SURVEY WAS CONDUCTED BY THE CITY OF COVINGTON, LA, IN 1971. THE SURVEY WAS CONDUCTED BY THE CITY OF COVINGTON, LA, IN 1971. THE SURVEY WAS CONDUCTED BY THE CITY OF COVINGTON, LA, IN 1971. THE SURVEY WAS CONDUCTED BY THE CITY OF COVINGTON, LA, IN 1971.

SITE BENCH MARK: 800 MAIL N SOUTH FACE OF POWER POLE. MARK IS ON NORTHEAST CORNER OF W. 15TH AVE. AND 230'2" SOUTHWEST OF WASHOUT AREA.  
E.L. = 26.45' NAVLA.



VICINITY MAP

PERMIT SET  
NOT FOR CONSTRUCTION  
DATE: 8/26/16  
FRANK J. ZEMMER, P.E.  
L.A. License No. 38263  
THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION OF RECORD PURPOSES.

APPROVALS  
RECOMMENDED FOR APPROVAL:



Frank J. Zemmer, P.E.  
Richard C. Lambert Consultants, LLC

APPROVED:

Donal Hill, P.E.  
City of Covington Engineer  
St. Tammany Parish

Date



DRAWN BY:  
**RICHARD C. LAMBERT**  
CONSULTANTS, LLC.

500 W. Canaway Avenue  
Metairie, LA 70001  
985-777-4447  
Fax: 985-777-4447

"FINAL PLANS"

6-8-16







**GENERAL NOTES:**

1. CONTRACTOR IS RESPONSIBLE FOR CALCULATING EXCAVATION AND EMBANKMENT QUANTITIES NECESSARY TO MEET FINAL PROFILES. THESE SHALL BE NO ADJUSTMENT IN CONTRACTOR'S LUMP SUM BID FOR EXCAVATION AND EMBANKMENT.
2. DRAIN LINE BACRILL AND BEDDING SHALL BE IN ACCORDANCE WITH PREP BEDDING AND BACRILL DETAIL ON SHEET 8. ALL COSTS FOR EXCAVATION, BACRILL, BEDDING MATERIAL AND GEOTEXTILE FABRIC OF REQUIRED CROSS DRAIN PIPE AND HEADWALLS SHALL BE INCLUDED IN CROSS DRAIN PIPE AND HEADWALL ITEMS. BEDDING MATERIAL FOR DRAIN LINES SHALL HAVE A MINIMUM DEPTH OF 24" INCHES AND WIDTH OF THE PIPE OUTSIDE DIAMETERS PLUS 36 INCHES. BEDDING MATERIAL FOR HEADWALLS SHALL BE THE BASE SLAB DIMENSIONS PLUS 24" INCHES FOR A DEPTH OF 24" INCHES.
3. 9" MANHOLE COVER IS REQUIRED OVER DRAINAGE STRUCTURES, DRAIN LINES AND OTHER UTILITIES WHERE POSSIBLE. IN AREAS WHERE 9" CANNOT BE ACHIEVED, THE CONTRACTOR IS REQUIRED TO TAKE CARE NOT TO DAMAGE PIPES DURING SUB-BASE CONSTRUCTION AND/OR PAVING OPERATIONS. ANY DAMAGE TO PIPES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE CITY OF COVINGTON.
4. STRUCTURAL FILL AND BACRILL FOR TRENCH OTHER THAN CROSS DRAINS AND HEADWALLS SHALL BE SANDY CLAYS WITH A MAXIMUM LIQUID OF 40% AND A PLASTICITY INDEX BETWEEN 10 AND 20, OR FINE SAND RIVER SAND AS SPECIFIED IN SECTION 100.100.00 "NON PLASTIC EMBANKMENT" COMPACTED TO 95% PER ASTM D998 AND ENCAPSULATED IN GEOTEXTILE FABRIC.
5. CONTRACTOR IS RESPONSIBLE FOR CALCULATION OF QUANTITIES FOR ALL LUMP SUM BID ITEMS.
6. PAY ITEM QUANTITIES MAY BE ADJUSTED TO SUIT SITE CONDITIONS PER DIRECTION OF PROJECT ENGINEER. THE LINES AND GRADES SHOWN ON THE PLANS MAY BE MODIFIED SUITABLY BY THE PROJECT ENGINEER IF FIELD CONDITIONS JUSTIFY SUCH A WORKING. THE CONTRACTOR SHALL NOT BE PERMITTED TO EXCEED PAYMENT OTHER THAN WHAT IS INDICATED IN CONTRACT QUANTITIES AND INVOICES.
7. ANY REQUIRED PRIVATE UTILITY MAIN RELOCATION SHALL BE BY OTHERS. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES TEN WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION WHERE RELOCATION COORDINATION WITH PRIVATE UTILITY PROVIDER IS NECESSARY. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SERVICES DURING CONSTRUCTION. EAST UTILITIES AND WATER SERVICES OTHERWISE SPECIFIED PRIOR TO CUTTING OR CLOSING STREETS OR OTHER TRAFFIC AREAS. EXCAVATING UNDERGROUND UTILITIES OR POLE LINES OR TELEPHONY SHUTDOWN OF EXISTING FACILITIES.
8. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING WOOD POSTS OR HAND RAILINGS WITH MATERIAL EQUAL TO OR BETTER THAN EXISTED PRIOR. NO DIRECT PAY FOR THIS WORK.
9. ALL EXCESS EXCAVATION AND OTHER MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE Hauled AND LEGALLY DISPOSED OF BEYOND THE LIMITS OF THE PROJECT.
10. ANY DAMAGE CAUSED BY CONTRACTOR TO ADJACENT ROADWAY OR PROPERTY SHALL BE REPAIRED TO EQUAL OR BETTER CONDITION THAN EXISTED PRIOR TO CONSTRUCTION BY CONTRACTOR AT CONTRACTOR'S EXPENSE.
11. ASPHALT WEARING AND BINDER COURSES SHALL BE IN ACCORDANCE WITH THE 2000 EDITION OF THE LOUISIANA STANDARD SPECIFICATION FOR ROADS AND BRIDGES.
12. CONTRACTOR SHALL CORRECTIVE ALL UTILITY AND UTILITY POLE RELOCATIONS.
13. CONTINGENCY ITEMS TO BE USED AS NECESSARY PER DIRECTION FROM PROJECT ENGINEER.
14. ALL AREAS WITHIN R/W THAT ARE NOT COVERED WITH CONCRETE OR ASPHALT SHALL BE FRODO SECOND-GROWING AND FERTILIZING SHALL BE INCLUDED IN THE ACRE BID PRICE OF MIDO-SEEDING.
15. ALL SPODS (REMOVED OR RELOCATED), DRAIN LINES, HEADWALLS AND OTHER ITEMS DONE UNDER RESURFACING SHALL BE SHOWN TO BE REMOVED SHALL BE DONE UNDER REMOVAL OF STRUCTURES AND OBSTRUCTIONS. ITEM ALL COSTS FOR REMOVAL OF ITEMS SHALL BE INCLUDED IN THE BID PRICE. ITEMS THAT HAVE BEEN REMOVED SHALL BE PAID UNDER THEIR RESPECTIVE REMOVAL ITEMS.
16. ALL TREES, VEGETATION AND DEBRIS WITHIN THE PROJECT LIMITS AND IN CONTACT WITH PROPOSED CONSTRUCTION SHALL BE REMOVED UNDER CLEANING AND GRUBBING ITEM PER LUMP SUM. BEFORE BEGINNING WORK ON REMOVAL OF ANY TREE, THE CONTRACTOR SHALL NOTIFY AND REVIEW THE TREE REMOVAL WITH THE PROJECT ENGINEER.
17. COSTS FOR ALL WORK AND ASSOCIATED ITEMS OF WORK SHALL BE INCLUDED IN ONE OF THE BID ITEMS PROVIDED.
18. GEOTEXTILE FABRIC REQUIRED UNDER ROADWAY BASE COURSE SHALL BE PAID UNDER CLASS II BASE COURSE (12" THICK) ITEM.
19. ALL SPODS AND MATERIALS THAT ARE IN CONTACT WITH CONSTRUCTION THAT ARE TO REMAIN SHALL BE STORED AND REPAIRED TO THEIR PROPER LOCATION BY THE CONTRACTOR UPON COMPLETION OF WORK AT NO DIRECT PAY.
20. PRIOR TO CONSTRUCTING DRAINAGE STRUCTURES, CONTRACTOR SHALL COORDINATE WITH PROJECT ENGINEER TO EXAMINE POTENTIAL CONFLICTS WITH WATER LINES, SEWER FORCE MAIN AND OTHER UTILITIES. INCLUDED WITHIN THIS ITEM IS EXCAVATION, LOCATION OF UTILITY, INVERT ELEVATION OF UTILITY AND BACRILL.
21. REMOVAL OF DRAIN LINES TO BE PAID UNDER REMOVAL OF STORM DRAIN PIPE ITEM.
22. IN THE EVENT ANY ITEM OF WORK IS NOT ADDRESSED IN THESE PLANS AND SPECIFICATIONS, THE 2000 EDITION OF THE LA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES AND LATEST REVISIONS SHALL GOVERN. THIS DOCUMENT CAN BE DOWNLOADED FROM THE FOLLOWING WEB ADDRESS: <http://www.doh.state.la.gov/decad/caprio-32>
23. ALL WORK MUST CONFORM TO THE REQUIREMENTS OF CITY OF COVINGTON DEPARTMENT OF ENGINEERING.
24. THE LOCATIONS OF UNDERGROUND AND OTHER NONVISIBLE UTILITIES SHOWN HAVE BEEN DETERMINED FROM DATA EITHER FURNISHED BY THE AGENCIES OR BY AGENCIES CONTROLLING SUCH RECORDS. WHERE FOUND, THE SURFACE FEATURES OF LOCATIONS ARE SHOWN. THE ACTUAL NONVISIBLE LOCATIONS MAY VARY FROM THOSE SHOWN. EACH AGENCY SHOULD BE CONTACTED RELATIVE TO THE PRECISE LOCATION OF ITS UNDERGROUND INSTALLATION PRIOR TO ANY RELOCATION OF THE ACCURACY OF SUCH LOCATIONS SHOWN. PRIOR TO COMMENCING THE CONTRACTOR SHALL CONTACT THE CALL CENTER AT (1-800-273-3000) TO MARK THE CONSTRUCTION AREA.
25. ALL EQUIPMENT AND MATERIALS Hauled TO OR FROM THE CONSTRUCTION SITE WILL BE BY A ROUTE APPROVED OR DESIGNATED BY THE ENGINEERING DEPT., PRIOR TO THE START OF CONSTRUCTION.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND VERIFYING ALL VERTICALS AND GRADES PRIOR TO BEGINNING OF CONSTRUCTION. PROJECT VERTICAL AND HORIZONTAL CONTROLS HAVE BEEN INDICATED ON THE PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH OFFSETS FROM BASE LINE AND ADDITIONAL TABLES FOR CONSTRUCTION PURPOSES, FROM THE PROJECT MONUMENTS/POINTS/CROSS CUTS ETC., WITHIN THE PROJECT AREA.
27. ANY CONTACTS BETWEEN EXISTING UTILITIES AND PROPOSED IMPROVEMENTS SHOULD BE REFERRED TO THE PROJECT ENGINEER FOR COORDINATION.
28. CONTRACTOR SHALL MAINTAIN SUBSURFACE AND OVERLAND DRAINAGE WITHIN THE PROJECT AREA DURING CONSTRUCTION. THIS INCLUDES CONTINUOUSLY MAINTAINING FLOW OF WATERWAY THROUGH ACCESS STRUCTURES. CONTRACTOR SHALL USE APPROPRIATE BRUSH AND/OR LOGS TO MAINTAIN DRAINAGE (AND DIRECT PAYMENT)
29. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE PROJECT SITE AND FREE OF ALL TRASH AND DEBRIS. (NO DIRECT PAYMENT)
30. THE CONTRACTOR SHALL NOT SCALE THE DRAWINGS FOR CONSTRUCTION PURPOSES.
31. THE CONTRACTOR IS REQUIRED TO SAW CUT ALL EXISTING ASPHALT PAVEMENTS AND SIDEWALKS WHICH ARE TO REMAIN ADJACENT TO REQUIRED WORK. SAW CUT SHALL BE TO FULL DEPTH.
32. CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO MINIMIZE DAMAGE TO EXISTING INFRASTRUCTURE AS CONTRACTOR WILL BE LIABLE FOR DAMAGES RESULTING FROM CONSTRUCTION ACTIVITIES. ALL COSTS FOR ANTICIPATED AND UNEXPECTED CONSEQUENTIAL DAMAGES RESULTING FROM THESE ACTIVITIES SHALL BE INCLUDED IN ASSOCIATED ITEMS OF WORK.
33. CONTRACTOR SHALL FINE GRADE ALL AREAS AFFECTED BY CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE. ALL WORK SHALL BE IN A MANNER ACCEPTABLE TO THE OWNER.
34. ALL AREAS THAT PERMETER REPAIRED ASPHALT SHALL BE BACRILLED AND 12 INCHES SHALL BE FREE OF STONE AND DEBRIS AND SUITABLE FOR GROWING GRASS.
35. THE CONTRACTOR SHALL CONTACT THE FOLLOWING ENTITIES AT LEAST FOUR (4) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION:

**ASPHALT PAVING REPAIR NOTES**

1. ASPHALT RECONSTRUCTION OF ASPHALT PAVEMENT THE CONTRACTOR SHALL SUBMIT AN APPROVAL JOB MIX FORMULA FOR ASPHALT PAVEMENT PER LA DOT10 STANDARDS, 2000 EDITION.
2. BOUNDARY: ASPHALTIC CONC. WEARING COURSE: 3" THICKNESS, TYPE 3 MIX (AC-30). ASPHALTIC CONC. BINDER COURSE: 4" THICKNESS, TYPE 3 MIX (AC-30). ASPHALTIC CONC. WEARING COURSE: 12" THICKNESS (CRUSHED STONE OR RECYCLED P.C. CONCRETE) WALKING PATH ASPHALTIC CONC. WEARING COURSE: 1.5" THICKNESS, TYPE 3 MIX (AC-30). ASPHALTIC CONC. BINDER COURSE: 1.5" THICKNESS, TYPE 3 MIX (AC-30). CLASS II BASE COURSE: 6" THICKNESS (CRUSHED STONE OR RECYCLED P.C. CONCRETE)
3. ASPHALTIC CONCRETE PAVEMENT SHALL BE UNDERLAIN BY A CLASS II BASE COURSE COMPACTED TO 95% DENSITY AT OPTIMUM MOISTURE CONTENT PER ASTM D698. IF BASE COURSE SHALL BE CRUSHED STONE OR RECYCLED PORTLAND CEMENT CONCRETE.
4. ASPHALT WEARING AND BINDER COURSES SHALL BE IN ACCORDANCE WITH THE 2000 EDITION OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.

NOTE: THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND COORDINATION WITH ALL AGENCIES INVOLVED IN THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND COORDINATION WITH ALL AGENCIES INVOLVED IN THE PROJECT.

*Final Mark 6-8-16*

NO.	REVISIONS	DATE



**RICHARD C. LAMBERT**  
CONSULTANTS, LLC.  
900 W. Calumet Approach  
Metairie, LA 70001  
985-772-4440  
Fax: 985-721-4447

**PERMIT SET**  
NOT FOR CONSTRUCTION  
FRANK J. ZIMMER, P.E.  
LA License No. 80028  
985-772-4440  
This document is set to be used for construction on below projects.

**W. 15th AVENUE CULVERT**  
**WASHOUT REPAIR**  
**GENERAL NOTES**  
ST. TAMMANY PARISH, LOUISIANA

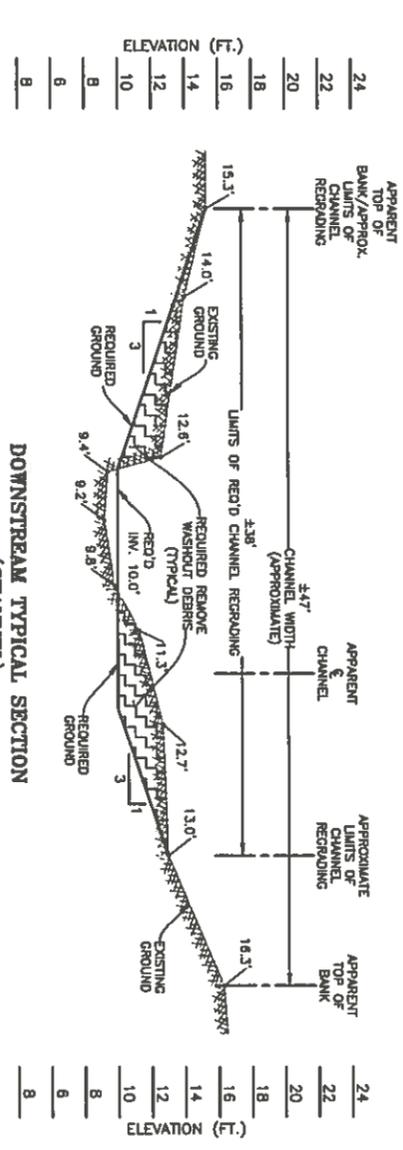
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SCALE:	AS SHOWN	AS SHOWN	AS SHOWN	AS SHOWN

DATE: 6/26/16  
SCALE: AS SHOWN

# SUMMARY OF ESTIMATED QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
201-01-00100	CLEARING AND GRUBBING	ACRE	0.036
202-01-00100	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	LUMP SUM
202-02-00200	REMOVAL OF ASPHALT PAVEMENT (FULL DEPTH)	SO. YD.	533.3
202-02-32140	REMOVAL OF STORM DRAIN PIPE (6" CORRUGATED METAL PIPE)	LIN. FT.	284
203-02-00100	EXCAVATION AND EMBANKMENT	LUMP SUM	LUMP SUM
202-02-02101	CLASS II BASE COURSE (CRUSHED STONE OR RECYCLED PCC)(6" THICK)	SO. YD.	137.3
202-02-06121	CLASS II BASE COURSE (CRUSHED STONE OR RECYCLED PCC)(12" THICK)	SO. YD.	674.4
501-01-4	ASPHALTIC CONCRETE WEARING COURSE (TYPE 3V/C-30)(2" THICK)	TON	60.1
501-02-8	ASPHALTIC CONCRETE BINDER COURSE (TYPE 3V/C-30)(4" THICK)	TON	120.1
501-01-C	ASPHALTIC CONCRETE WEARING COURSE (TYPE 3V/C-30)(1.5" THICK)	TON	10.5
501-02-0	ASPHALTIC CONCRETE BINDER COURSE (TYPE 3V/C-30)(1.5" THICK)	TON	10.5
711-01-03000	RRRPP (30 LB. 14" THICK)	SO. YD.	273.4
727-01-00100	MOBILIZATION	LUMP SUM	LUMP SUM
738-01-00100	HYDROSEEDING	ACRE	0.303
740-01-00100	CONSTRUCTION LAYOUT	LUMP SUM	LUMP SUM
5-001	GROSS DRAIN PIPE (64" PCCSP, 12 GAUGE)	LIN. FT.	280
5-002	4 BARREL 64" REINFORCED CONCRETE MANHOLE	EACH	2
5-003	ENVIRONMENTAL PROTECTION	LUMP SUM	LUMP SUM
5-004	CONSTRUCTION MATERIAL TESTING	LUMP SUM	LUMP SUM
5-005	AS-BUILT SURVEY AND PLANS	LUMP SUM	LUMP SUM
5-006	EXHAUSTIVE EXCAVATION	EACH	4

- 1) PAY ITEM QUANTITIES MAY BE ADJUSTED TO SUIT SITE CONDITIONS PER DIRECTION OF PROJECT ENGINEER.
- 2) CONTRACTOR IS RESPONSIBLE FOR CALCULATION OF QUANTITIES FOR ALL LUMP SUM BID ITEMS.
- 3) THE LINES AND GRADES SHOWN ON THE PLANS MAY BE MODIFIED SLIGHTLY BY THE PROJECT ENGINEER IF FIELD CONDITIONS DICTATE SUCH A VARIATION. THE CONTRACTOR SHALL NOT BE ENTITLED TO EXTRA PAYMENT OTHER THAN WHATEVER PROVIDED IN CONTRACT QUANTITIES ARE INVOLVED.
- 4) COST TO REMOVE GRASS, ROOTS AND VEGETATION IN CONTACT WITH REQUIRED WORK SHALL BE INCLUDED UNDER ITEM NUMBER 201-01-00100, "CLEARING AND GRUBBING".
- 5) ALL VEGETATION AND ROOTS WITHIN THE PROJECT LIMITS AND IN CONTACT WITH PROPOSED CONSTRUCTION SHALL BE REMOVED UNDER ITEM NO. 201-01-00100, "CLEARING AND GRUBBING, PER ACRE."
- 6) ALL COSTS FOR EXCAVATION, BACKFILL, GEOTEXTILE FABRIC OR REQUIRED GROSS DRAIN PIPE AND REINFORCEMENTS SHALL BE INCLUDED UNDER ITEM NUMBER 202-02-00200, "REMOVAL OF ASPHALT PAVEMENT (FULL DEPTH)".
- 7) TEMPORARY RELOCATION OF SIGNS AND SUPPORTS SHALL BE AT NO DIRECT PAY.
- 8) REMOVAL AND REPLACEMENT OF WOOD PILETS AND RAILINGS SHALL BE AT NO DIRECT PAY.
- 9) THE CONTRACTOR IS ADVISED TO SUBMIT ALL DRAINAGE ASPHALT PAVEMENT WORK ARE TO BE REMOVED UNDER ITEM NO. 202-02-00200, "REMOVAL OF ASPHALT PAVEMENT (FULL DEPTH)".
- 10) ASPHALTIC CONCRETE SHALL BE TYPE 1, AC-30 IN ACCORDANCE WITH LUMBO STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2000 EDITION.
- 11) THERE SHALL BE NO DIRECT PAYMENT FOR WEAVING AND PERMUTING HYDROSEEDING AREAS.
- 12) CONTRACTOR SHALL PROVIDE AS-BUILT PLANS TO CORRECT FINAL GRADES, INVERTS, AND REQUIRED STRUCTURES. AS-BUILT SURVEY SHALL BE CONDUCTED BY A PROFESSIONAL SURVEYOR AND ENGINEER.



if not in map  
6-8-16

DATE	REVISIONS	REVISION

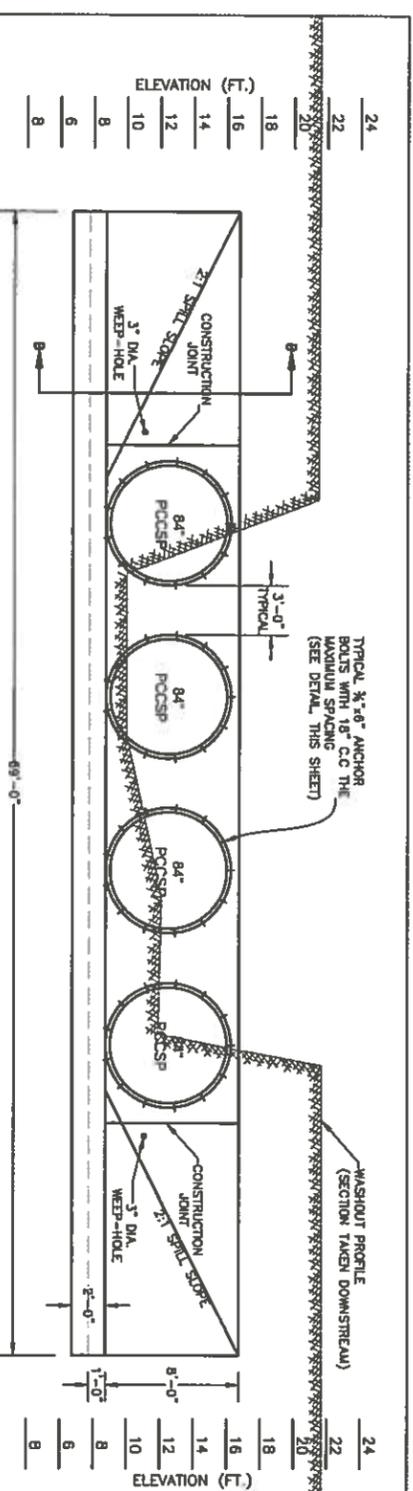


**RICHARD C. LAMBERT**  
CONSULTANTS, L.L.C.  
900 W. Causeway Approach  
Metairie, LA 70001  
504-721-4440  
Fax: 504-721-4441

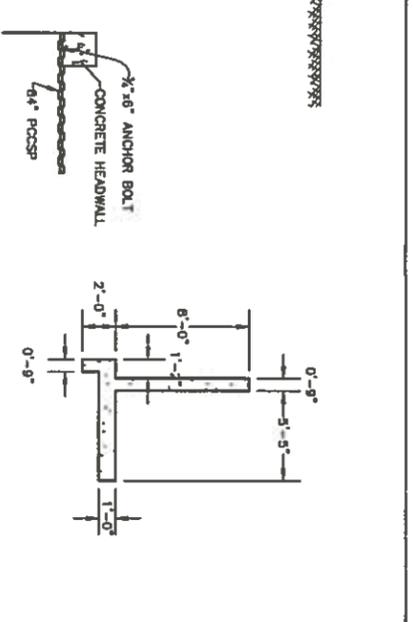
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**W. 15th AVENUE CULVERT  
WASHOUT REPAIR**  
SUMMARY OF ESTIMATED QUANTITIES  
ST. TAMMANY PARISH, LOUISIANA

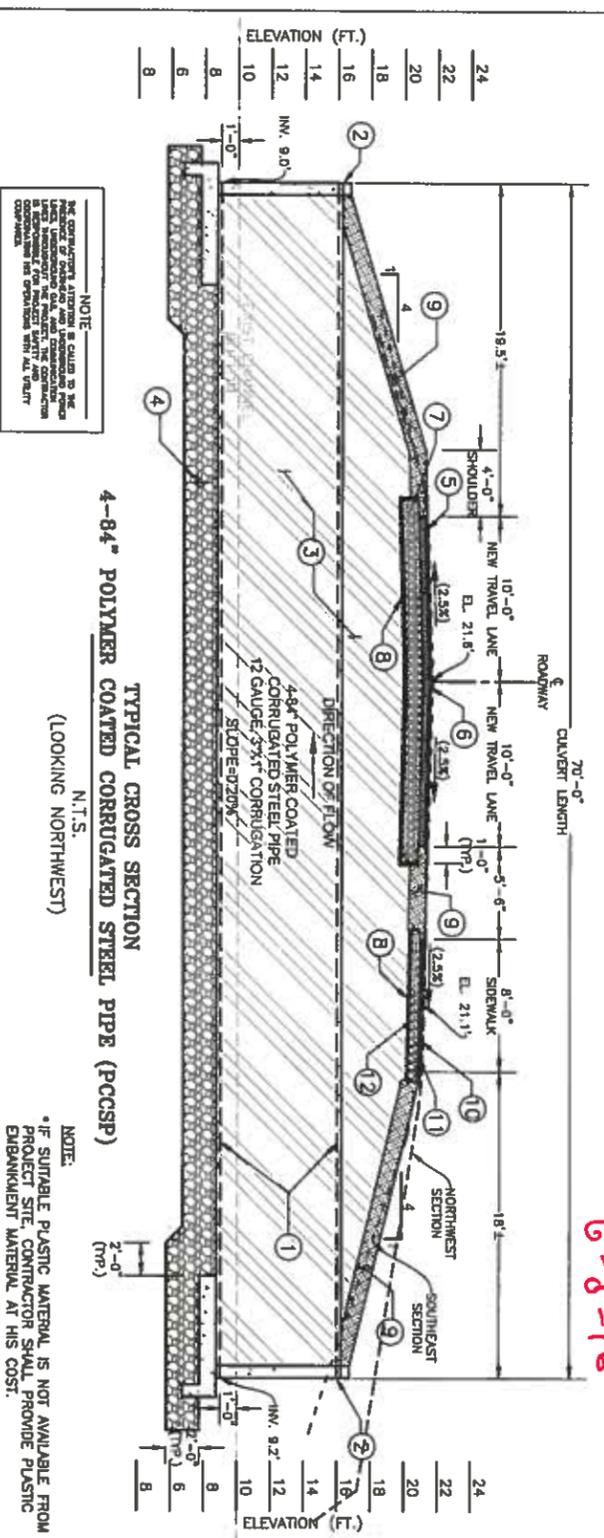
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CHECKED BY: [Name]  
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JOB NO.: [Job No.]  
DRAWING NO.: **7**



TYPICAL HEADWALL ELEVATION  
4-84" POLYMER COATED CORRUGATED STEEL PIPE (PCCSP)  
N.T.S.  
(LOOKING NORTHEAST)



TYPICAL HEADWALL CONNECTION DETAIL  
N.T.S.



TYPICAL CROSS SECTION  
4-84" POLYMER COATED CORRUGATED STEEL PIPE (PCCSP)  
N.T.S.  
(LOOKING NORTHWEST)

NOTE:  
\* IF SUITABLE PLASTIC MATERIAL IS NOT AVAILABLE FROM PROJECT SITE, CONTRACTOR SHALL PROVIDE PLASTIC EMBANKMENT MATERIAL AT HIS COST.

*FINAL PARTS*  
*6-8-16*

- LEGEND**
- ① CROSS DRAIN PIPE (84" PCCSP) (ITEM 701-01-02280)
  - ② CONCRETE HEADWALL (LADOTT SPECIAL DETAIL HW-90CWP2)
  - ③ TYPE A BACKFILL (CRUSHED STONE OR FLOWABLE FILL)
  - ④ BEDDING MATERIAL (CRUSHED STONE) (24" THICK)
  - ⑤ TYPE 3 ASPHALTIC CONCRETE WEARING COURSE (AC-30) (2")
  - ⑥ TYPE 3 ASPHALTIC CONCRETE BINDER COURSE (AC-30) (4")
  - ⑦ CLASS II BASE COURSE (CRUSHED STONE OR RECYCLED P.C. CONCRETE (12" THICK))
  - ⑧ GEOTEXTILE FABRIC (INCLUDE COST IN ITEM 302-02-00800)
  - ⑨ SUITABLE PLASTIC MATERIAL OBTAINED FROM EXCAVATION OR PLASTIC EMBANKMENT MATERIAL PROVIDED BY THE CONTRACTOR. SUITABLE PLASTIC MATERIAL SHALL CONFORM TO LADOTT SUBSECTION 203.06(1). NO DIRECT PAYMENT FOR PROVIDING AND INSTALLING PLASTIC MATERIAL OR CONTRACTOR PROVIDED MATERIAL.
  - ⑩ TYPE 3 WEARING COURSE (AC-30) (1.5")
  - ⑪ TYPE 3 BINDER COURSE (AC-30) (1.5")
  - ⑫ CLASS II BASE COURSE (CRUSHED STONE OR RECYCLED P.C. CONCRETE (6" THICK))
- UNITS OF TYPE A BACKFILL  
(CRUSHED STONE OR FLOWABLE FILL)
- CLASS II BASE COURSE  
(CRUSHED STONE OR RECYCLED P.C. CONCRETE)
- BEDDING MATERIAL
- PLASTIC EMBANKMENT

NOTE:  
NO CONTRACTOR ALTERATION IS ALLOWED TO THE HEADWALL OR TO THE PCCSP. THE CONTRACTOR SHALL MAINTAIN THE ORIGINAL DESIGN AND CONSTRUCTION OF THE HEADWALL AND PCCSP THROUGHOUT THE PROJECT AND OPERATIONS WITH ALL VARIATIONS.

NO.	DESCRIPTION	DATE



**RICHARD C. LAMBERT**  
CONSULTANTS, L.L.C.  
900 W. Calcasieu Approach  
Mandeville, LA 70471  
985-771-4440  
FAX: 985-771-4447

PERMIT SET  
NOT FOR CONSTRUCTION  
DRAWING NO. 8  
L.C. LAMBERT REG. 38382  
THIS DRAWING IS NOT TO BE USED FOR  
CONSTRUCTION OR DESIGN PURPOSES.

**W. 15th AVENUE CULVERT**  
**WASHOUT REPAIR**  
**TYPICAL SECTIONS**  
ST. TAMMANT PARISH, LOUISIANA  
DATE: 6/26/16  
DESIGNED BY: [Name] DT: [Name] MS: [Name]  
CHECKED BY: [Name] DT: [Name] MS: [Name]  
SCALE: A.S.S.  
DRAWING NO. 8