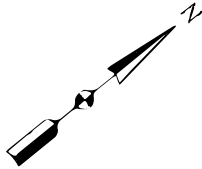


NO ATTEMPT HAS BEEN MADE BY SIGMA CONSULTING GROUP, INC. TO VERIFY TITLE, ACTUAL LEGAL OWNERSHIPS, SERVITUDES, EASEMENTS, RIGHTS-OF-WAY, OR OTHER BURDENS ON THE PROPERTY.

EXISTING TOPOGRAPHIC SURVEY PERFORMED BY PYBURN & ODOM MCA DATED MAY 2011

DATUM: ALL ELEVATIONS ARE IN NAVD 88 IN US SURVEY FEET. ALL HORIZONTAL COORDINATES ARE IN NAD 83 (LOUISIANA STATE PLANE, SOUTH ZONE) IN US SURVEY FEET. SEE GENERAL NOTES ON SHEET 2 FOR SURVEY CONTROL DATA.

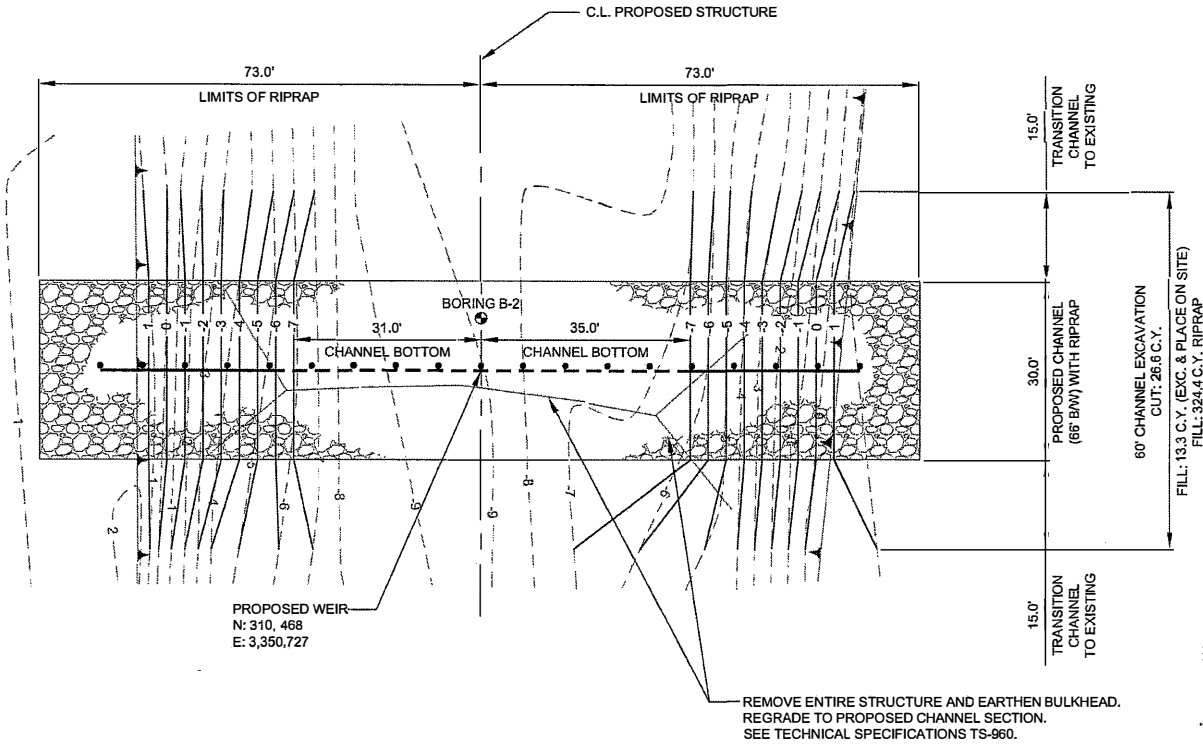
ALL REQUIRED CHANNEL EXCAVATION IS TO BE PLACED ON SITE. REFER TO THE ELEVATION VIEW ON THE FOLLOWING SHEET FOR ADDITIONAL INFORMATION.



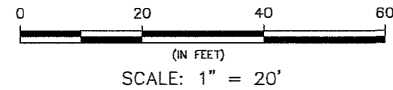
NON-VEGETATED WATER BOTTOM		
0.16 AC.	26.6 C.Y.	EXCAVATION
0.16 AC.	13.3 C.Y.	IN-SITU FILL
0.10 AC.	324.4 C.Y.	ROCK/RIPRAP

LEGEND:

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING TOP OF BANK
- PROPOSED WEIR
- PROPOSED RIPRAP 2' THICK (MIN.)
- EXISTING WEIR TO BE REMOVED



F:\02020\10703\01020\Plan Sheets\WC-1 Site Plan.dwg [17:01 - Landscape] Aug 30, 2016 - 6:51am



REV.	DATE	DESCRIPTION	BY

SIGMA
CONSULTING
GROUP, INC.
ENGINEERING CONSULTANTS
10905 Airline Highway
Baton Rouge, Louisiana 70816

**COASTAL PROTECTION AND
RESTORATION AUTHORITY**
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: AMEDEE DESIGNED BY: SEPEDA

LOST LAKE MARSH CREATION
AND HYDROLOGIC RESTORATION

STATE PROJECT NUMBER: TE-72

FEDERAL PROJECT NUMBER: TE-72

APPROVED BY: LEAR

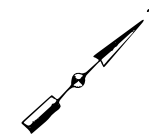
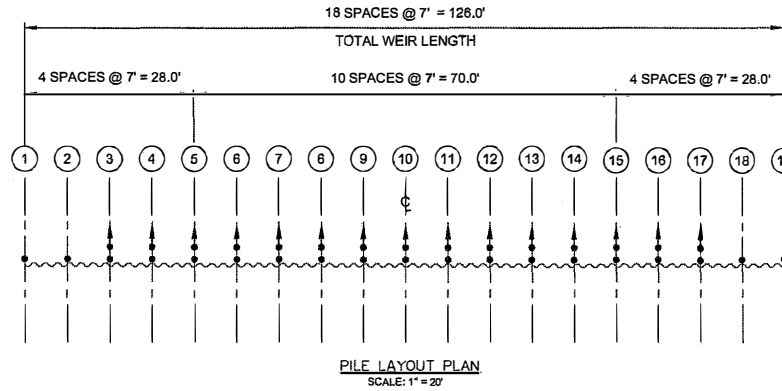
SITE WC-1
PLAN VIEW

DATE: AUGUST 2016

SHEET 13 OF 61

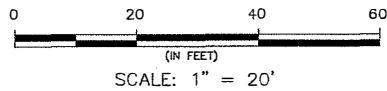
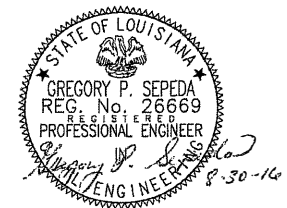
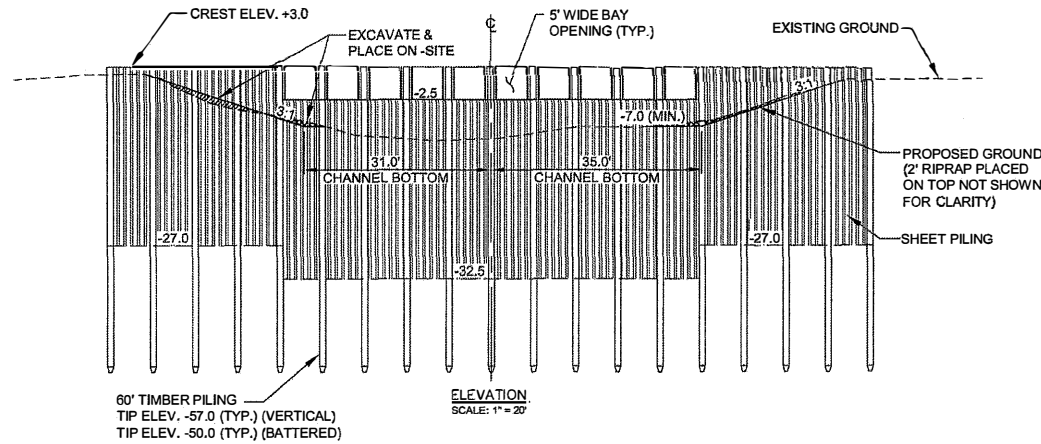
SITE NOTES

- DATUM: ALL ELEVATIONS ARE NAVD 88 IN US FEET
MHW = +1.44 FT.
MLW = +0.27 FT.
- FOR STRUCTURAL DETAILS AND NOTES OF TIMBER PILING, SHEET PILE WALL AND STEEL BAYS, SEE SHEET 23.
- CHANNEL EXCAVATION SHALL CONFORM TO TECHNICAL SPECIFICATION TS-330.
- RIPRAP SHALL BE 55 LB. CLASS AND CONFORM TO TECHNICAL SPECIFICATION TS-720.
- ONE (1) PERMANENT WARNING SIGN SHALL BE INSTALLED ON EACH SIDE OF THE STRUCTURE. FOR WARNING SIGN DETAILS AND NOTES, SEE SHEET 28.



LEGEND:

- VERTICAL PILE
- BATTERED PILE
- CHANNEL EXCAVATION
- IN-SITU FILL



REV	DATE	DESCRIPTION	BY



COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: AMEDEE DESIGNED BY: SEPEDA

LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION

STATE PROJECT NUMBER: TE-72

FEDERAL PROJECT NUMBER: TE-72

APPROVED BY: LEAR

SITE WC-1
STRUCTURE DETAIL

DATE: AUGUST 2016

SHEET 14 OF 61

NO ATTEMPT HAS BEEN MADE BY SIGMA CONSULTING GROUP, INC. TO VERIFY TITLE, ACTUAL LEGAL OWNERSHIPS, SERVITUDES, EASEMENTS, RIGHTS-OF-WAY, OR OTHER BURDENS ON THE PROPERTY.

EXISTING TOPOGRAPHIC SURVEY PERFORMED BY PYBURN & ODOM MCA
DATED MAY 2011

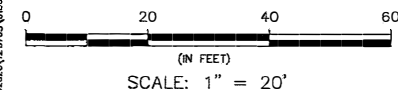
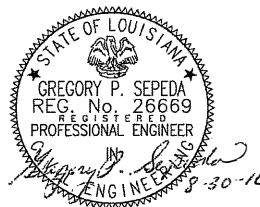
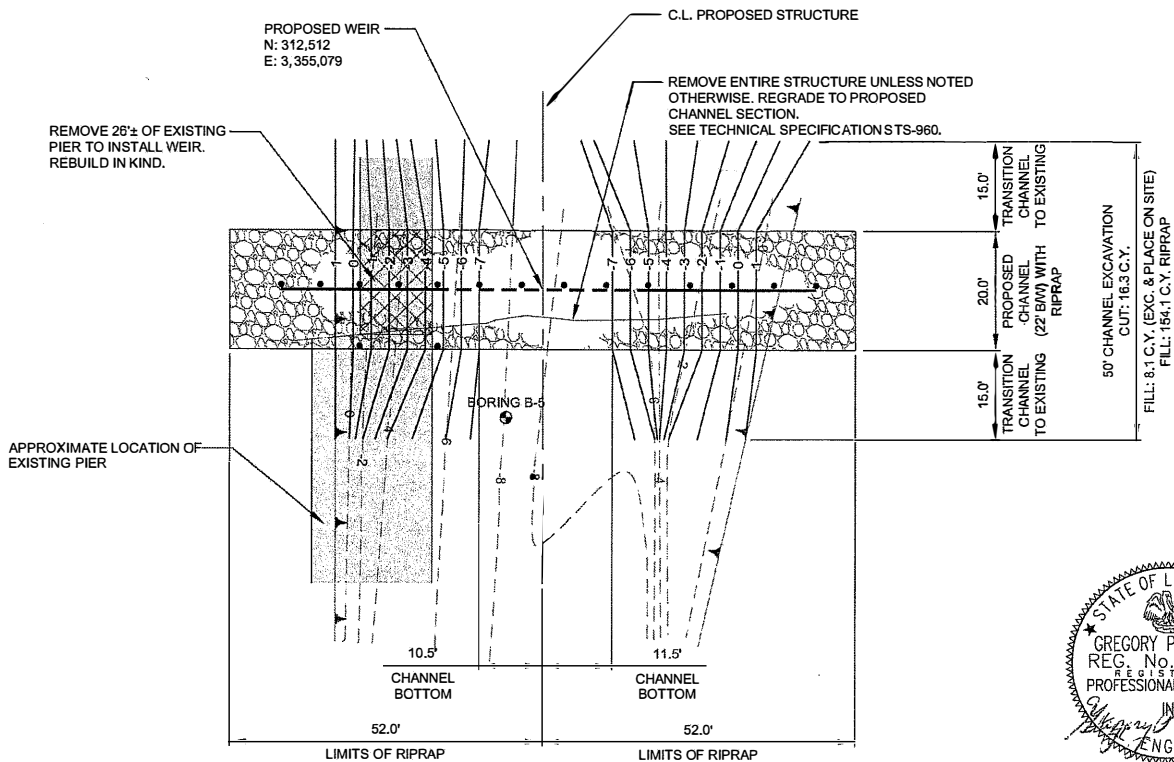
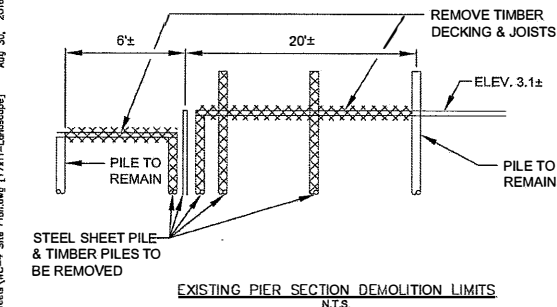
DATUM: ALL ELEVATIONS ARE IN NAVD 88 IN US SURVEY FEET. ALL HORIZONTAL COORDINATES ARE IN NAD 83 (LOUISIANA STATE PLANE, SOUTH ZONE) IN US SURVEY FEET. SEE GENERAL NOTES ON SHEET 2 FOR SURVEY CONTROL DATA.

ALL REQUIRED CHANNEL EXCAVATION IS TO BE PLACED ON SITE. REFER TO THE ELEVATION VIEW ON THE FOLLOWING SHEET FOR ADDITIONAL INFORMATION.

NON-VEGETATED WATER BOTTOM		
0.08 AC.	16.3 C.Y.	EXCAVATION
0.08 AC.	8.1 C.Y.	IN-SITU FILL
0.05 AC.	154.1 C.Y.	ROCK/RIPRAP

LEGEND:

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING TOP OF BANK
- PROPOSED WEIR
- PROPOSED RIPRAP 2' THICK (MIN.)
- EXISTING WEIR TO BE REMOVED



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

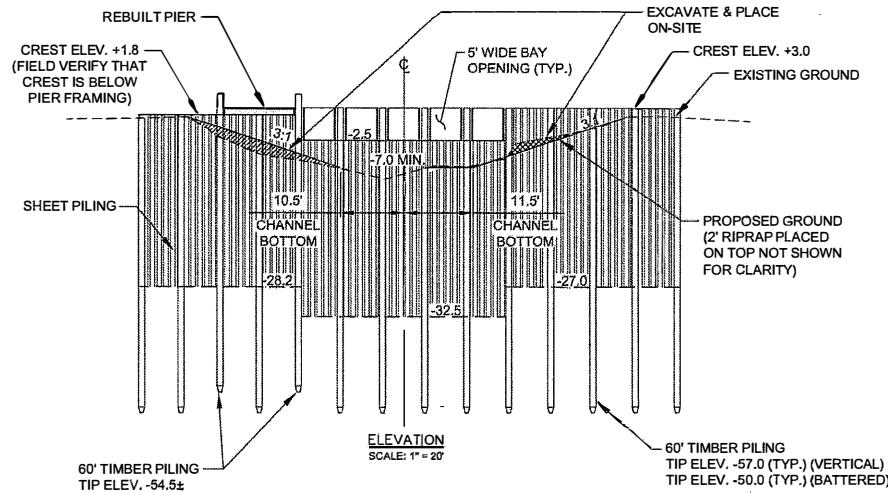
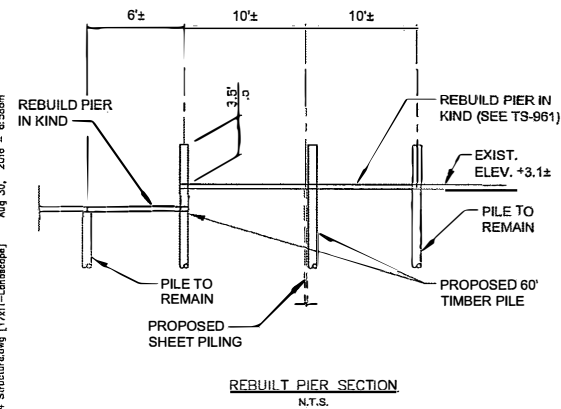
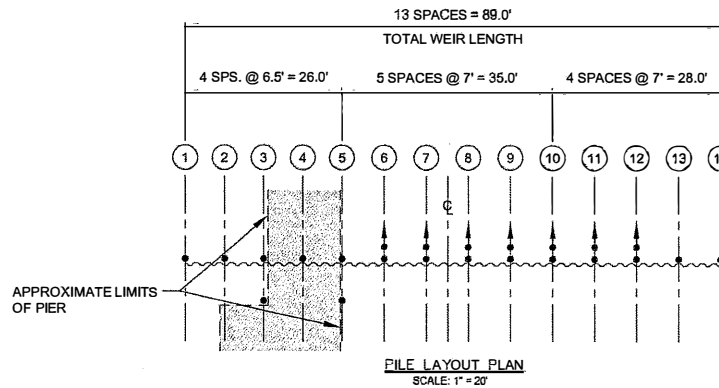
DRAWN BY: AMEDEE DESIGNED BY: SEPEDA

LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION
STATE PROJECT NUMBER: TE-72
FEDERAL PROJECT NUMBER: TE-72
APPROVED BY: LEAR

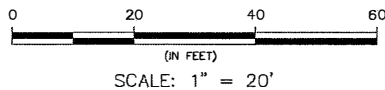
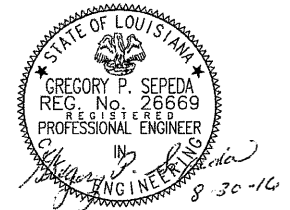
SITE WC-4
PLAN VIEW
DATE: AUGUST 2016
SHEET 15 OF 61

SITE NOTES

- DATUM: ALL ELEVATIONS ARE NAVD 88 IN US FEET
MHW = +1.44 FT.
MLW = +0.27 FT.
- FOR STRUCTURAL DETAILS AND NOTES OF TIMBER PILING, SHEET PILE WALL AND STEEL BAYS, SEE SHEET 23.
- CHANNEL EXCAVATION SHALL CONFORM TO TECHNICAL SPECIFICATION TS-330.
- RIPRAP SHALL BE 55 LB. CLASS AND CONFORM TO TECHNICAL SPECIFICATION TS-720.
- ONE (1) PERMANENT WARNING SIGN SHALL BE INSTALLED ON EACH SIDE OF THE STRUCTURE. FOR WARNING SIGN DETAILS AND NOTES, SEE SHEET 26.



- LEGEND:**
- VERTICAL PILE
 - ▲ BATTERED PILE
 - ▨ CHANNEL EXCAVATION
 - ▨ IN-SITU FILL



REV.	DATE	DESCRIPTION	BY



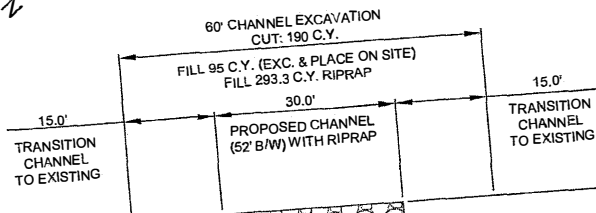
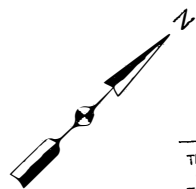
COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: AMEDEE DESIGNED BY: SEPEDA

LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION
STATE PROJECT NUMBER: TE-72
FEDERAL PROJECT NUMBER: TE-72
APPROVED BY: LEAR

SITE WC-4 STRUCTURE DETAIL
DATE: AUGUST 2016
SHEET 16 OF 61

F:\020240\120203\WC-5.dwg Plot Size: 17x11-Landscape 08/01/2016 1:02pm AUG01, 2016 - 7:02am



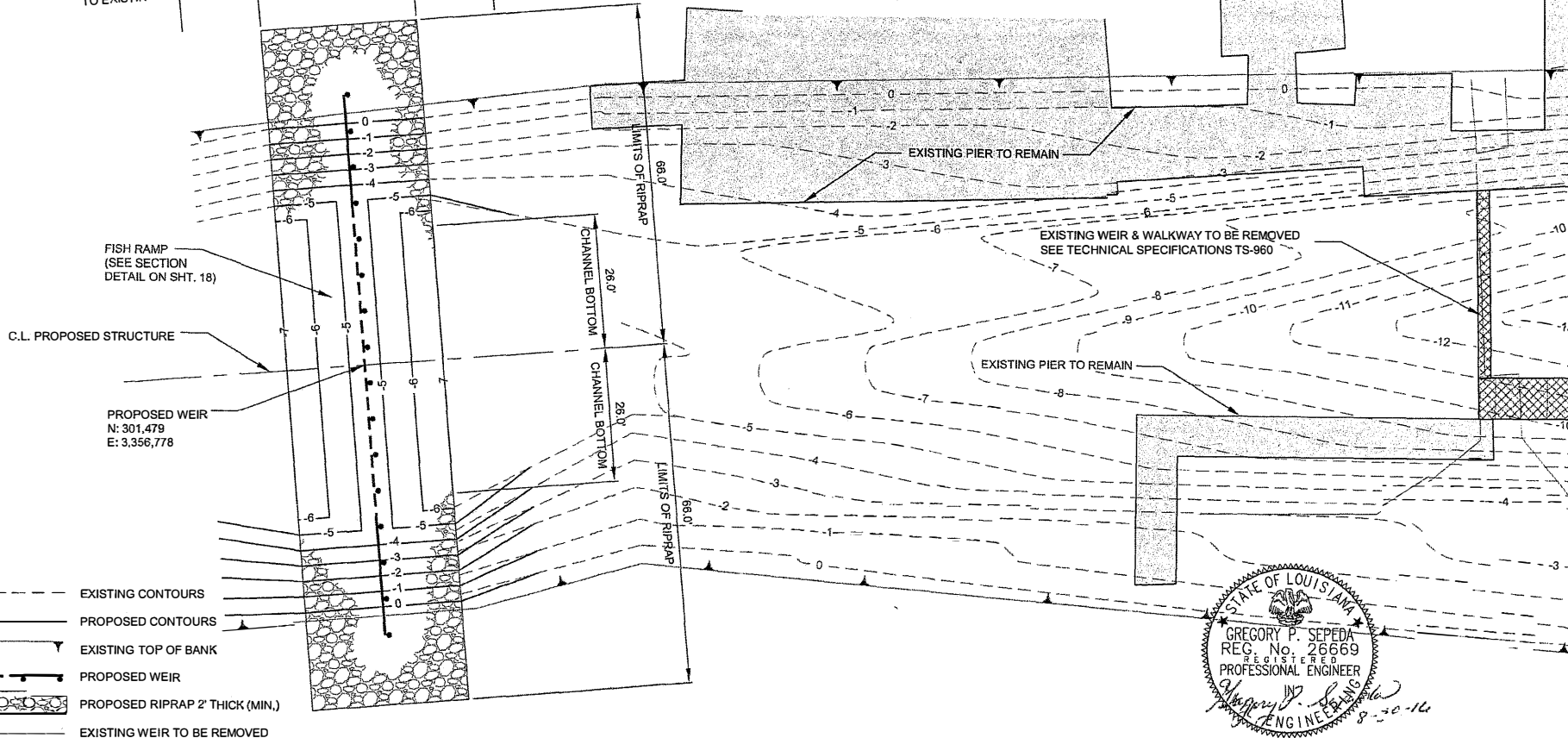
NO ATTEMPT HAS BEEN MADE BY SIGMA CONSULTING GROUP, INC. TO VERIFY TITLE, ACTUAL LEGAL OWNERSHIPS, SERVITUDES, EASEMENTS, RIGHTS-OF-WAY, OR OTHER BURDENS ON THE PROPERTY.

EXISTING TOPOGRAPHIC SURVEY PERFORMED BY PYBURN & ODOM MCA
DATED MAY 2011

DATUM: ALL ELEVATIONS ARE IN NAVD 88 IN US SURVEY FEET. ALL HORIZONTAL COORDINATES ARE IN NAD 83 (LOUISIANA STATE PLANE, SOUTH ZONE) IN US SURVEY FEET. SEE GENERAL NOTES ON SHEET 2 FOR SURVEY CONTROL DATA.

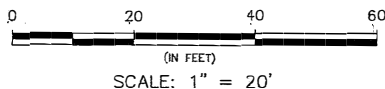
ALL REQUIRED CHANNEL EXCAVATION IS TO BE PLACED ON SITE. REFER TO THE ELEVATION VIEW ON THE FOLLOWING SHEET FOR ADDITIONAL INFORMATION.

NON-VEGETATED WATER BOTTOM		
0.18 AC.	190.0 C.Y.	EXCAVATION
0.18 AC.	95.0 C.Y.	IN-SITU FILL
0.09 AC.	293.3 C.Y.	ROCK/RIPRAP



LEGEND:

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING TOP OF BANK
- PROPOSED WEIR
- PROPOSED RIPRAP 2' THICK (MIN.)
- EXISTING WEIR TO BE REMOVED



REV.	DATE	DESCRIPTION	BY

SIGMA
CONSULTING
GROUP, INC.
ENGINEERING CONSULTANTS
10305 Airline Highway
Baton Rouge, Louisiana 70816

**COASTAL PROTECTION AND
RESTORATION AUTHORITY**
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

LOST LAKE MARSH CREATION
AND HYDROLOGIC RESTORATION

STATE PROJECT NUMBER: TE-72
FEDERAL PROJECT NUMBER: TE-72

DRAWN BY: AMEDEE
DESIGNED BY: SEPEDA
APPROVED BY: LEAR

SITE WC-5
PLAN SHEET

DATE: AUGUST 2016

SHEET 17 OF 61

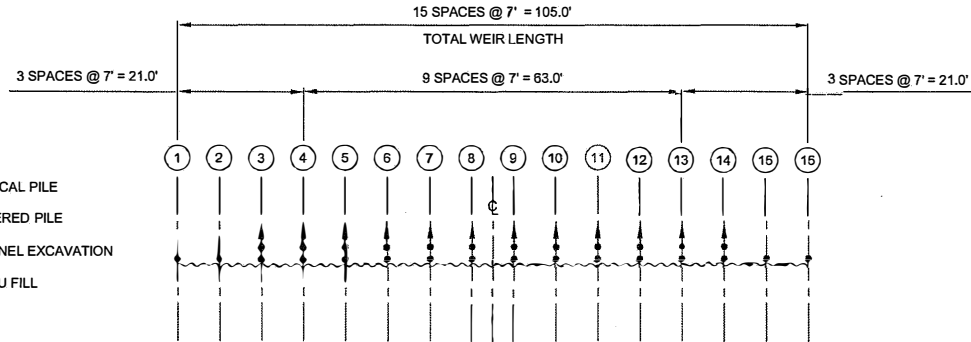


SITE NOTES

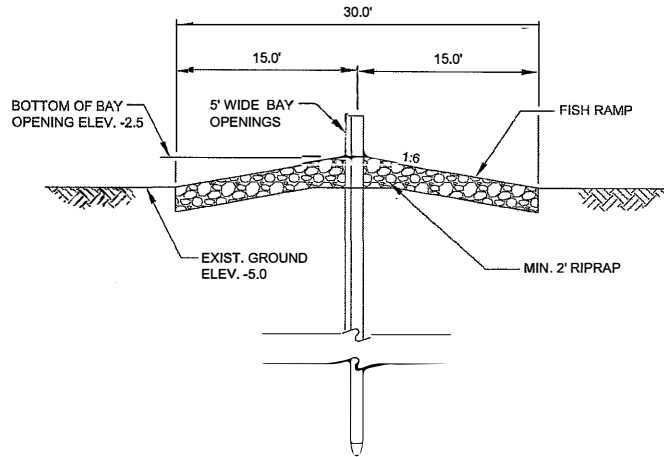
- DATUM: ALL ELEVATIONS ARE NAVD 88 IN US FEET
MHW = +1.44 FT.
MLW = +0.27 FT.
- FOR STRUCTURAL DETAILS AND NOTES OF TIMBER PILING, SHEET PILE WALL AND STEEL BAYS, SEE SHEET 23.
- CHANNEL EXCAVATION SHALL CONFORM TO TECHNICAL SPECIFICATION TS-330.
- RIPRAP SHALL BE 55 LB. CLASS AND CONFORM TO TECHNICAL SPECIFICATION TS-720.
- ONE (1) PERMANENT WARNING SIGN SHALL BE INSTALLED ON EACH SIDE OF THE STRUCTURE. FOR WARNING SIGN DETAILS AND NOTES, SEE SHEET 26.

LEGEND:

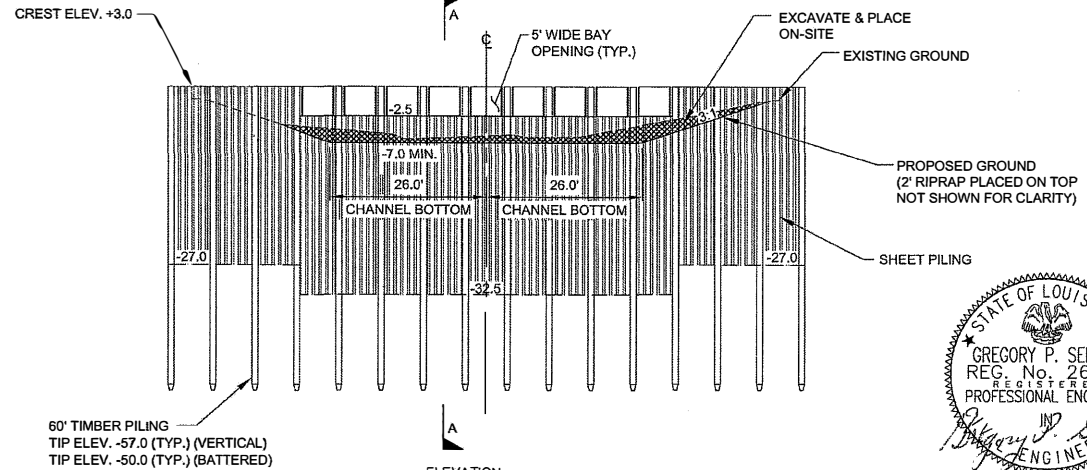
- VERTICAL PILE
- BATTERED PILE
- CHANNEL EXCAVATION
- IN-SITU FILL



PILE LAYOUT PLAN
SCALE: 1" = 20'

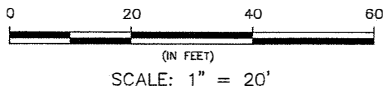


FISH RAMP DETAIL
SECTION "A-A"
SCALE: 1" = 10'



ELEVATION
SCALE: 1" = 20'

60" TIMBER PILING
TIP ELEV. -57.0 (TYP.) (VERTICAL)
TIP ELEV. -50.0 (TYP.) (BATTERED)



REV.	DATE	DESCRIPTION	BY

SIGMA
CONSULTING
GROUP, INC.
ENGINEERING CONSULTANTS
10305 Airline Highway
Baton Rouge, Louisiana 70816

**COASTAL PROTECTION AND
RESTORATION AUTHORITY**
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: AMEDDE DESIGNED BY: SEPEDA

LOST LAKE MARSH CREATION
AND HYDROLOGIC RESTORATION

STATE PROJECT NUMBER: TE-72
FEDERAL PROJECT NUMBER: TE-72

APPROVED BY: LEAR

SITE WC-5
STRUCTURE DETAIL

DATE: AUGUST 2016

SHEET 18 OF 61

NO ATTEMPT HAS BEEN MADE BY SIGMA CONSULTING GROUP, INC. TO VERIFY TITLE, ACTUAL LEGAL OWNERSHIPS, SERVITUDES, EASEMENTS, RIGHTS-OF-WAY, OR OTHER BURDENS ON THE PROPERTY.

EXISTING TOPOGRAPHIC SURVEY PERFORMED BY PYBURN & ODOM MCA DATED MAY 2011

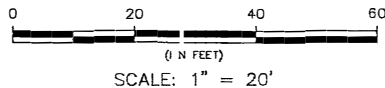
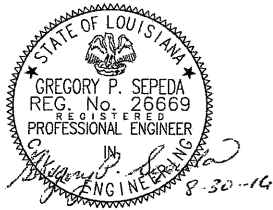
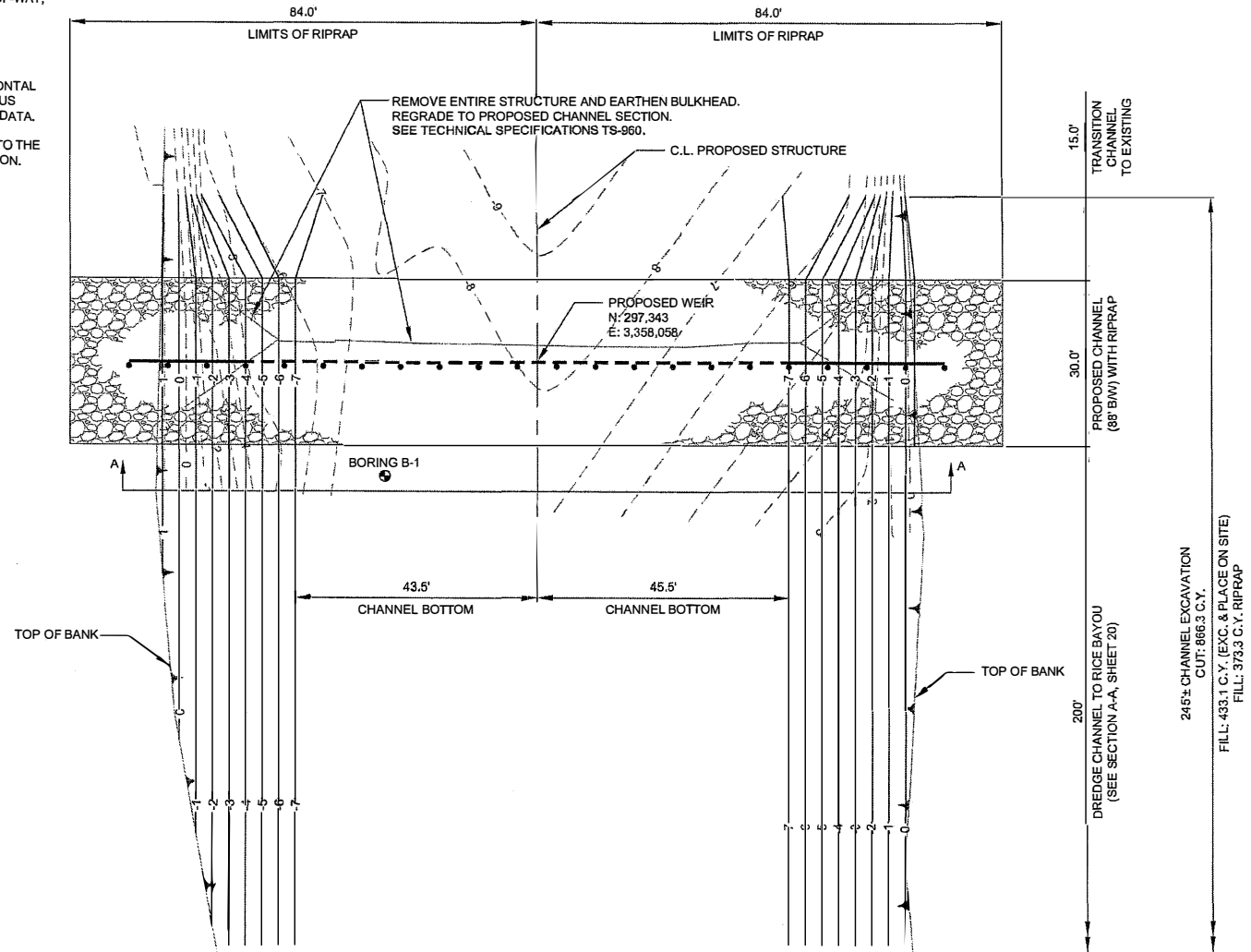
DATUM: ALL ELEVATIONS ARE IN NAVD 88 IN US SURVEY FEET. ALL HORIZONTAL COORDINATES ARE IN NAD 83 (LOUISIANA STATE PLANE, SOUTH ZONE) IN US SURVEY FEET. SEE GENERAL NOTES ON SHEET 2 FOR SURVEY CONTROL DATA.

ALL REQUIRED CHANNEL EXCAVATION IS TO BE PLACED ON SITE. REFER TO THE ELEVATION VIEW ON THE FOLLOWING SHEET FOR ADDITIONAL INFORMATION.

NON-VEGETATED WATER BOTTOM		
0.75 AC.	866.3 C.Y.	EXCAVATION
0.75 AC.	433.1 C.Y.	IN-SITU FILL
0.12 AC.	373.3 C.Y.	ROCK/RIPRAP

LEGEND:

- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING TOP OF BANK
- PROPOSED WEIR
- PROPOSED RIPRAP 2' THICK (MIN.)
- EXISTING WEIR TO BE REMOVED



REV.	DATE	DESCRIPTION	BY

SIGMA
CONSULTING
GROUP, INC.
ENGINEERING CONSULTANTS
10305 Airline Highway
Baton Rouge, Louisiana 70816

**COASTAL PROTECTION AND
RESTORATION AUTHORITY**
490 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: AMEDEE

DESIGNED BY: SEPEDA

LOST LAKE MARSH CREATION
AND HYDROLOGIC RESTORATION

STATE PROJECT NUMBER: TE-72

FEDERAL PROJECT NUMBER: TE-72

APPROVED BY: LEAR

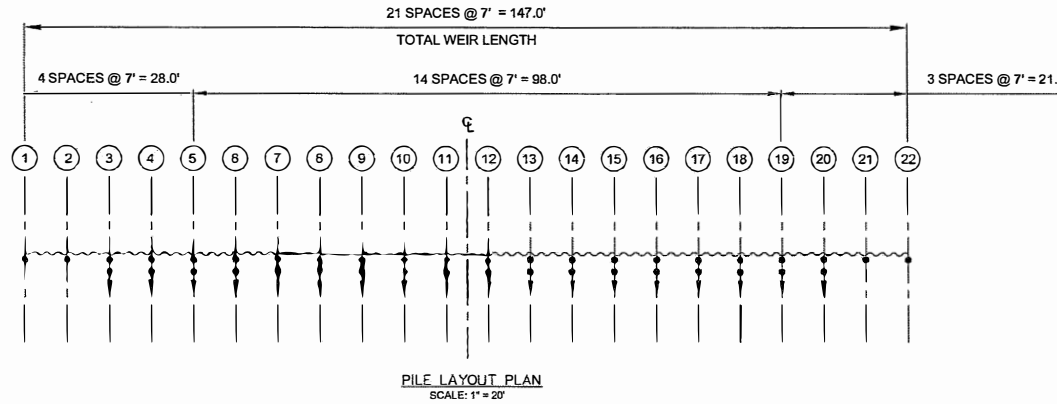
SITE WC-6
PLAN SHEET

DATE: AUGUST 2016

SHEET 19 OF 61

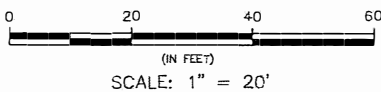
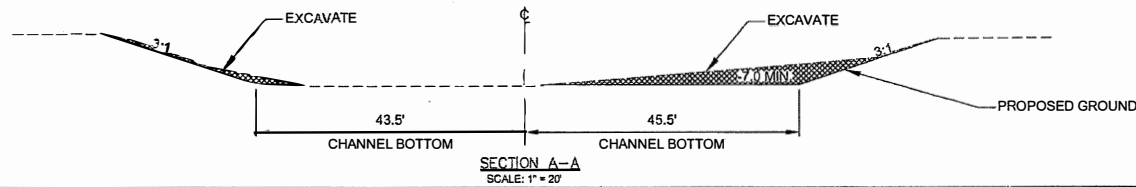
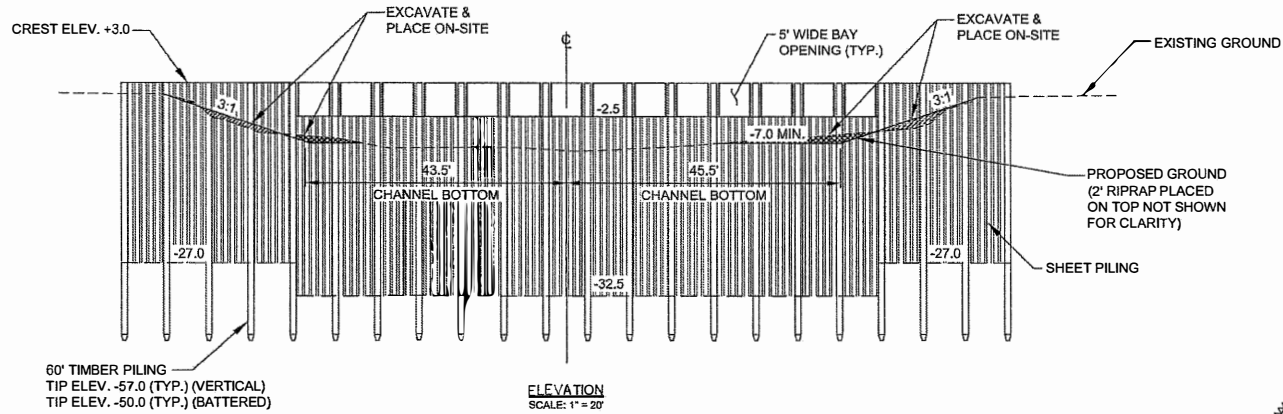
SITE NOTES

- DATUM: ALL ELEVATIONS ARE NAVD 88 IN US FEET
MHW = +1.44 FT.
MLW = +0.27 FT.
- FOR STRUCTURAL DETAILS AND NOTES OF TIMBER PILING, SHEET PILE WALL AND STEEL BAYS, SEE SHEET 23.
- CHANNEL EXCAVATION SHALL CONFORM TO TECHNICAL SPECIFICATION TS-330.
- RIPRAP SHALL BE 55 LB. CLASS AND CONFORM TO TECHNICAL SPECIFICATION TS-720.
- ONE (1) PERMANENT WARNING SIGN SHALL BE INSTALLED ON EACH SIDE OF THE STRUCTURE. FOR WARNING SIGN DETAILS AND NOTES, SEE SHEET 26.



LEGEND:

- VERTICAL PILE
- BATTERED PILE
- CHANNEL EXCAVATION
- IN-SITU FILL



REV.	DATE	DESCRIPTION	BY

SIGMA
CONSULTING
GROUP, INC.
ENGINEERING CONSULTANTS
10305 Airline Highway
Baton Rouge, Louisiana 70816

**COASTAL PROTECTION AND
RESTORATION AUTHORITY**
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: AMEDDE DESIGNED BY: SEPEDA

LOST LAKE MARSH CREATION
AND HYDROLOGIC RESTORATION
STATE PROJECT NUMBER: TE-72
FEDERAL PROJECT NUMBER: TE-72
APPROVED BY: LEAR

SITE WC-6
STRUCTURE DETAIL
DATE: AUGUST 2016
SHEET 20 OF 61





NO ATTEMPT HAS BEEN MADE BY SIGMA CONSULTING GROUP, INC. TO VERIFY TITLE, ACTUAL LEGAL OWNERSHIPS, SERVITUDES, EASEMENTS, RIGHTS-OF-WAY, OR OTHER BURDENS ON THE PROPERTY.

EXISTING TOPOGRAPHIC SURVEY PERFORMED BY SIGMA CONSULTING GROUP, INC. ON AUGUST 21, 2012

DATUM: ALL ELEVATIONS ARE IN NAVD 88 IN US SURVEY FEET. ALL HORIZONTAL COORDINATES ARE IN NAD 83 (LOUISIANA STATE PLANE, SOUTH ZONE) IN US SURVEY FEET. SEE GENERAL NOTES ON SHEET 2 FOR SURVEY CONTROL DATA.

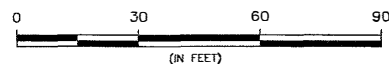
SOIL BORING B-20 MAY BE REFERENCED FOR THIS LOCATION.

ALL REQUIRED CHANNEL EXCAVATION IS TO BE PLACED ON SITE IN AREAS DESIGNATED. REFER TO THE ELEVATION VIEW ON THE FOLLOWING SHEET FOR ADDITIONAL INFORMATION.

NON-VEGETATED WATER BOTTOM		
0.39 AC.	1,190.0 C.Y.	EXCAVATION
0.28 AC.	595.0 C.Y.	IN-SITU FILL
0.08 AC.	244.4 C.Y.	ROCK/RIPRAP

LEGEND:

	EXISTING CONTOURS
	PROPOSED CONTOURS
	EXISTING TOP OF BANK
	PROPOSED WEIR
	PROPOSED RIPRAP 2' THICK (MIN.)
	CHANNEL EXCAVATION
	FILL AREA



SCALE: 1" = 30'

REV.	DATE	DESCRIPTION	BY

SIGMA
CONSULTING
GROUP, INC.
ENGINEERING CONSULTANTS
10305 Airline Highway
Baton Rouge, Louisiana 70816

**COASTAL PROTECTION AND
RESTORATION AUTHORITY**
450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: AMEDEE

DESIGNED BY: SEPEDA

LOST LAKE MARSH CREATION
AND HYDROLOGIC RESTORATION

STATE PROJECT NUMBER: TE-72

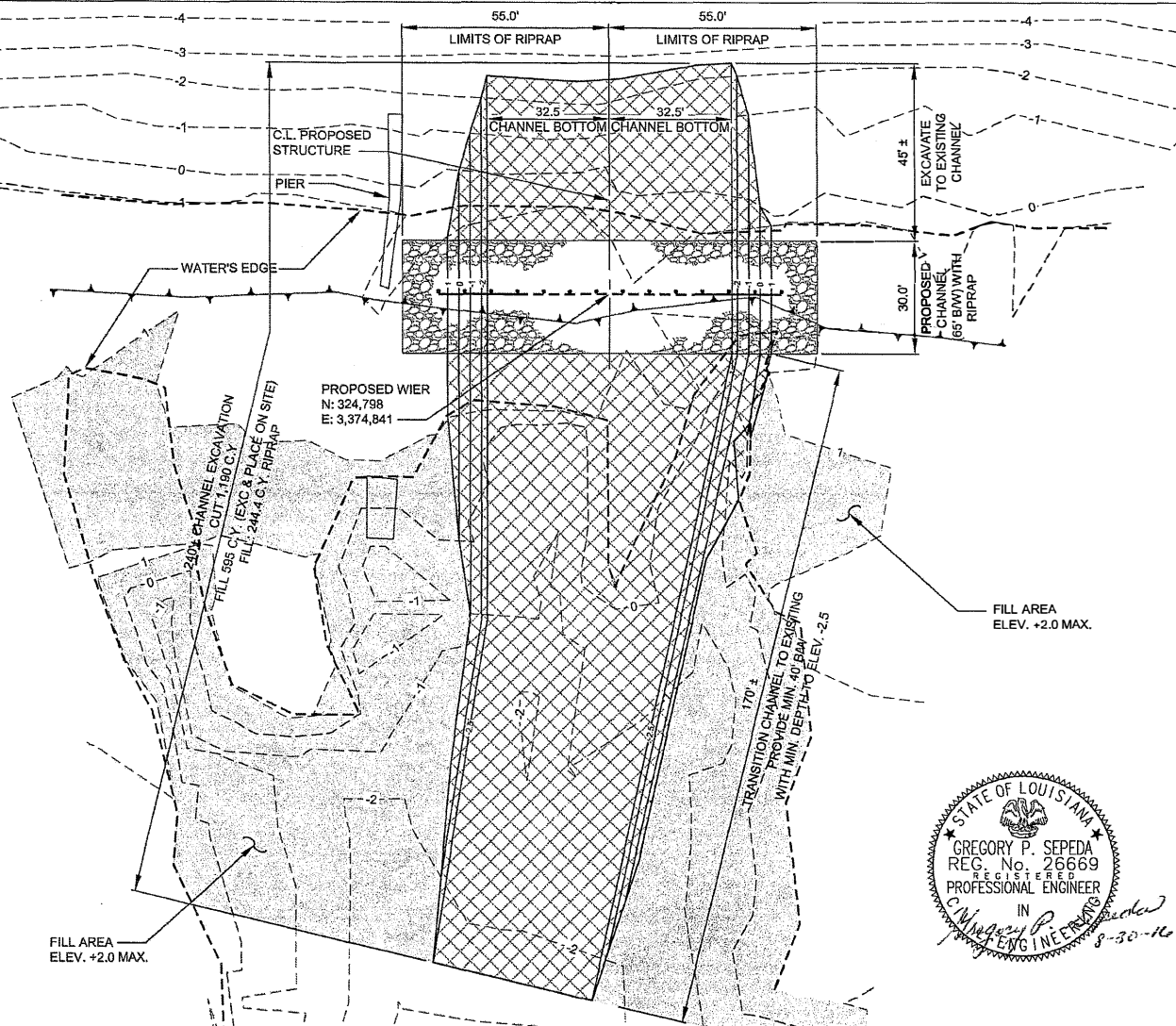
FEDERAL PROJECT NUMBER: TE-72

APPROVED BY: LEAR

SITE-1
PLAN VIEW

DATE: AUGUST 2016

SHEET 21 OF 61

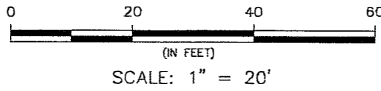
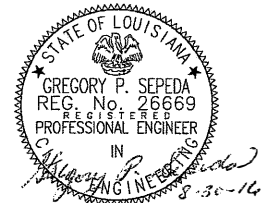
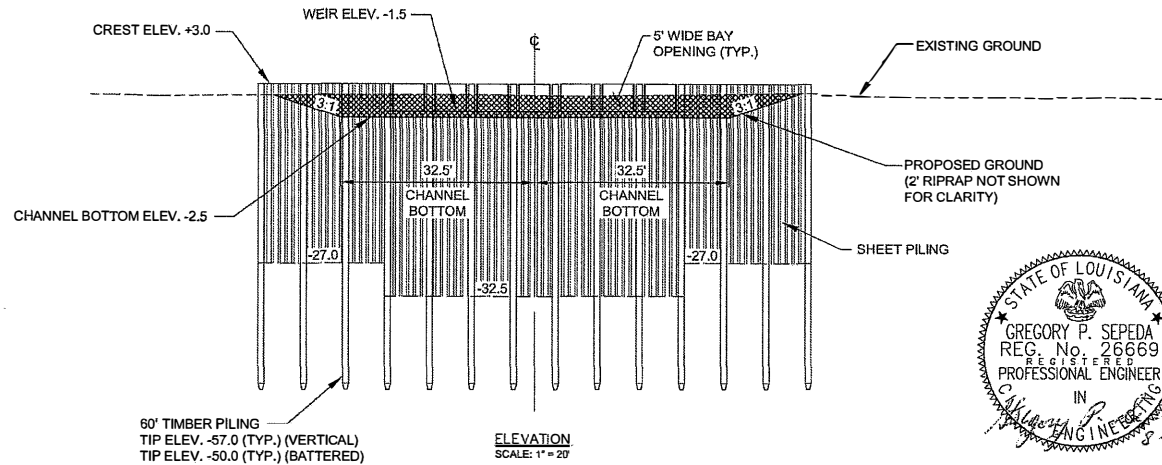
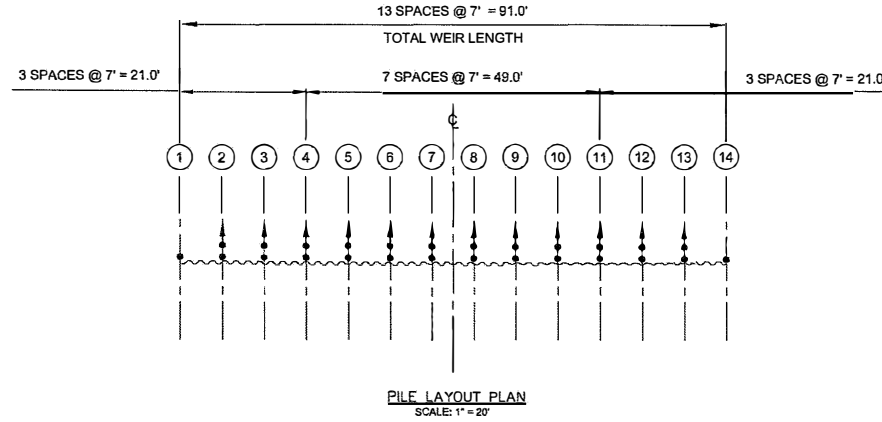
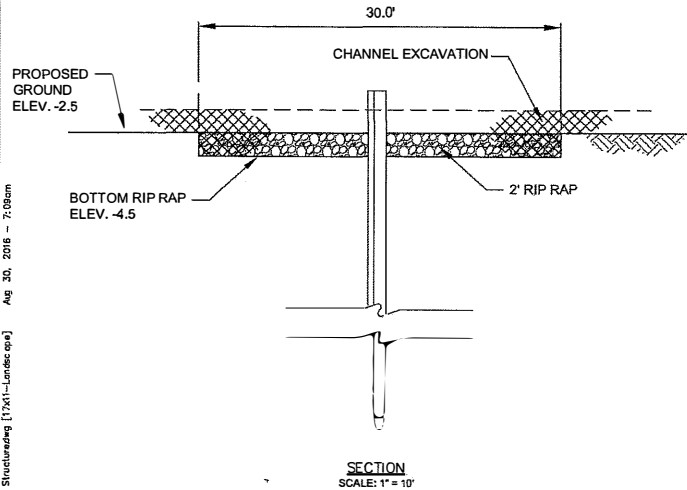


SITE NOTES

- DATUM: ALL ELEVATIONS ARE NAVD 88 IN US FEET
MHW = +1.44 FT.
MLW = +0.27 FT.
- FOR STRUCTURAL DETAILS AND NOTES OF TIMBER PILING, SHEET PILE WALL AND STEEL BAYS, SEE SHEET 23.
- CHANNEL EXCAVATION SHALL CONFORM TO TECHNICAL SPECIFICATION TS-330.
- RIPRAP SHALL BE 55 LB. CLASS AND CONFORM TO TECHNICAL SPECIFICATION TS-720.
- ONE (1) PERMANENT WARNING SIGN SHALL BE INSTALLED ON EACH SIDE OF THE STRUCTURE. FOR WARNING SIGN DETAILS AND NOTES, SEE SHEET 26.

LEGEND:

- VERTICAL PILE
- BATTERED PILE
- CHANNEL EXCAVATION
- IN-SITU FILL



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION AND RESTORATION AUTHORITY
430 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

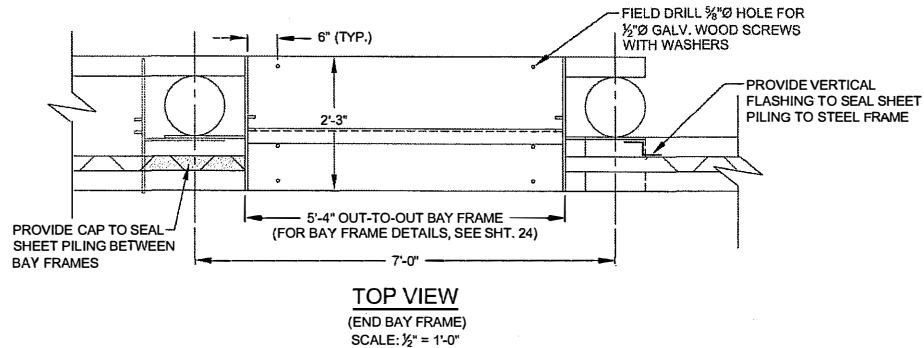
DRAWN BY: AMEDEE	DESIGNED BY: SEPEDA	APPROVED BY: LEAR	SHEET 22 OF 61
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LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION
STATE PROJECT NUMBER: TE-72
FEDERAL PROJECT NUMBER: TE-72

SITE-1 STRUCTURE DETAIL
DATE: AUGUST 2016

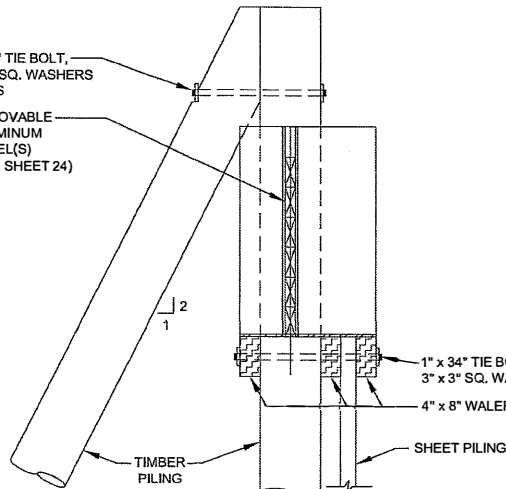
STRUCTURE NOTES:

1. TIMBER PILES SHALL CONFORM TO TECHNICAL SPECIFICATION TS-950. PILES SHALL BE TREATED WITH A CREOSOTE SOLUTION CONFORMING TO AWPA P2 TO A MINIMUM RETENTION OF 20 PCF AND CAPPED.
2. TIMBER PILINGS SHALL BE 60' IN LENGTH WITH A NORMAL 13" DIAMETER BUTT AND 7" MINIMUM DIAMETER AT THE TIP.
3. THE TOP OF THE PILES SHALL BE COATED WITH CREOSOTE OIL PRIOR TO PLACING CAP. THE PILE CAP SHALL BE ATTACHED USING ALUMINUM OR STAINLESS STEEL NAILS.
4. THE WALERS SHALL BE TREATED STRUCTURAL TIMBER AND CONFORM TO TECHNICAL SPECIFICATION TS-955.
5. THE STEEL SHEET PILING SHALL CONFORM TO TECHNICAL SPECIFICATION TS-970.
6. WHEN FIELD DRILLING HOLES IN STEEL PLATES FOR THE WOOD SCREWS, CARE SHOULD BE TAKEN NOT TO PENETRATE THE TIMBER MEMBER MORE THAN $\frac{1}{2}$ ".

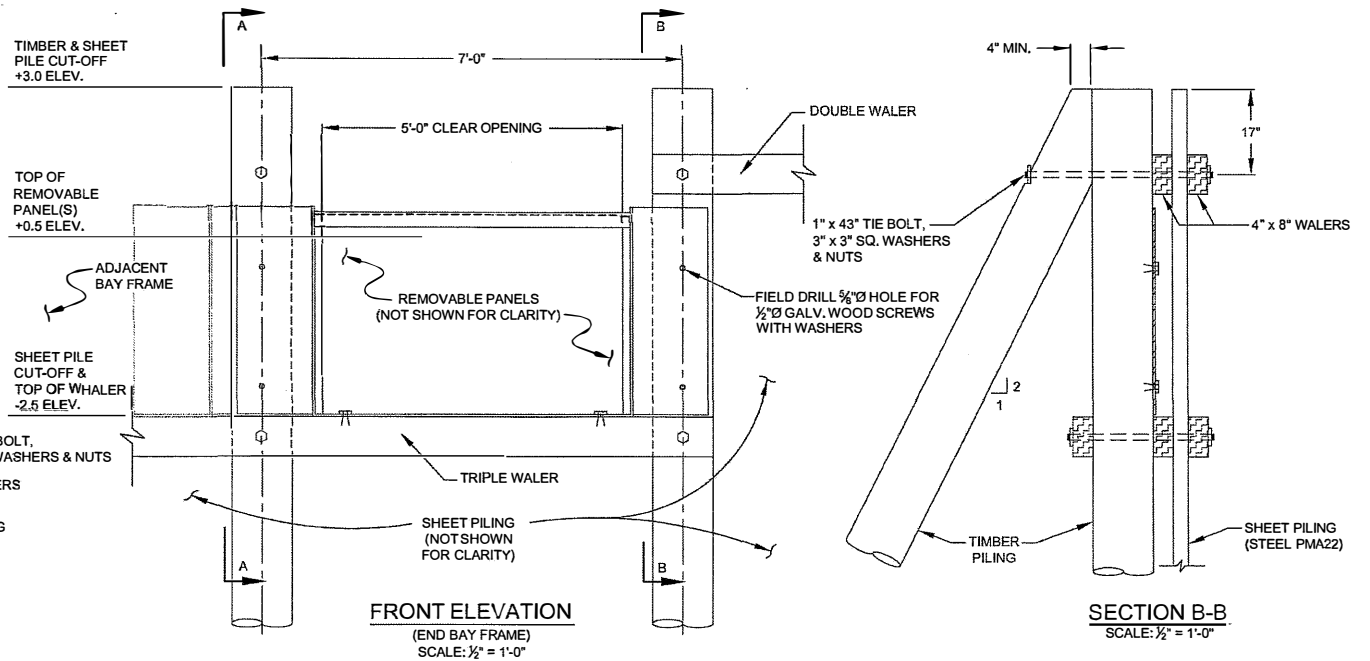


1" x 32" TIE BOLT,
3" x 3" SQ. WASHERS
& NUTS

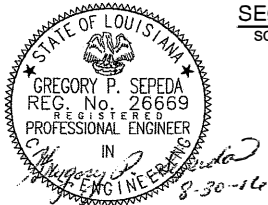
REMOVABLE
ALUMINUM
PANEL(S)
(SEE SHEET 24)



SECTION A-A
SCALE: $\frac{1}{2}$ " = 1'-0"



SECTION B-B
SCALE: $\frac{1}{2}$ " = 1'-0"



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION AND
RESTORATION AUTHORITY
430 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: YARBROUGH DESIGNED BY: SEPEDA

LOST LAKE MARSH CREATION
AND HYDROLOGIC RESTORATION

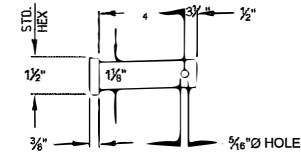
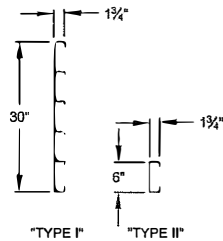
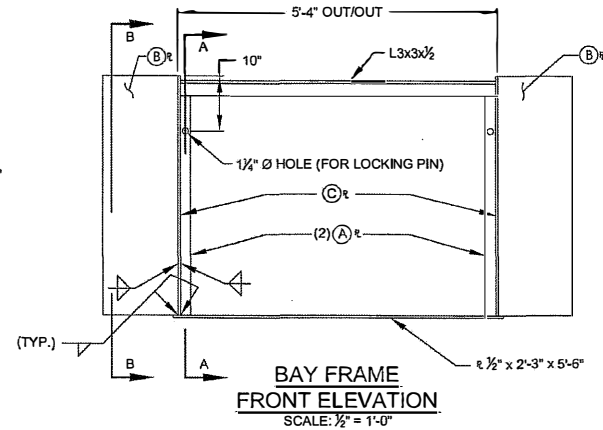
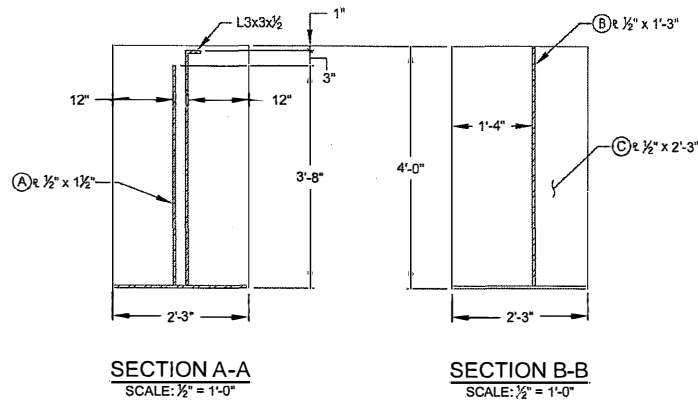
STATE PROJECT NUMBER: TE-72
FEDERAL PROJECT NUMBER: TE-72

APPROVED BY: BRASUILL

TYPICAL DETAILS

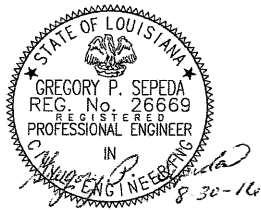
DATE: AUGUST 2016

SHEET 23 OF 61



STEEL NOTES:

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO TECHNICAL SPECIFICATION TS-971.
2. ALL STRUCTURAL STEEL SHALL BE STRUCTURAL CARBON STEEL (GRADE 36). ALL STEEL SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
3. ALUMINUM PLANKS SHALL CONFORM TO TECHNICAL SPECIFICATION TS-910.
4. CLEVIS PINS SHALL BE STAINLESS STEEL MATERIAL, AND ARE AT NO DIRECT PAY. PADLOCKS ARE TO BE PROVIDED BY CPRA.



REV.	DATE	DESCRIPTION	BY



COASTAL PROTECTION AND RESTORATION AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

DRAWN BY: YARBROUGH | DESIGNED BY: SEPEDA

LOST LAKE MARSH CREATION AND HYDROLOGIC RESTORATION

STATE PROJECT NUMBER: TE-72

FEDERAL PROJECT NUMBER: TE-72

APPROVED BY: BRASUELL

TYPICAL DETAILS

DATE: AUGUST 2016

SHEET 24 OF 61