

<p>APPLICATION BY: GULF ENGINEERS & CONSULTANTS</p> <p>DRAWN BY: R. REED</p> <p>DESIGNED BY: G. HUDSON</p> <p>APPROVED BY: J. PULS</p>		<p>PERMIT (Rev 1) 01-04-13</p> <p>COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801</p> <p>HYDROLOGIC RESTORATION OF AMITE RIVER DIVERSION CANAL</p> <p>LOCATION MAP</p> <p>1</p> <p>STATE PROJECT NUMBER: PO-142</p> <p>DATE: JANUARY 4, 2013</p> <p>FEDERAL PROJECT NUMBER:</p> <p>SHEET 1 OF 13</p>																													
<p>LOCATION MAP - REGIONAL</p> <p>SCALE: 1"= 3 MILES</p> <p>PROJECT LOCATION</p>																															
<p>VICINITY MAP - STATE OF LOUISIANA</p> <p>SCALE: 1"= 1 MILE</p> <p>LOCATION (LIVINGSTON PARISH, LA.)</p>																															
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PROJECT ACCESS BY BOAT
FROM BLIND RIVER VIA
ST JAMES BOAT CLUB

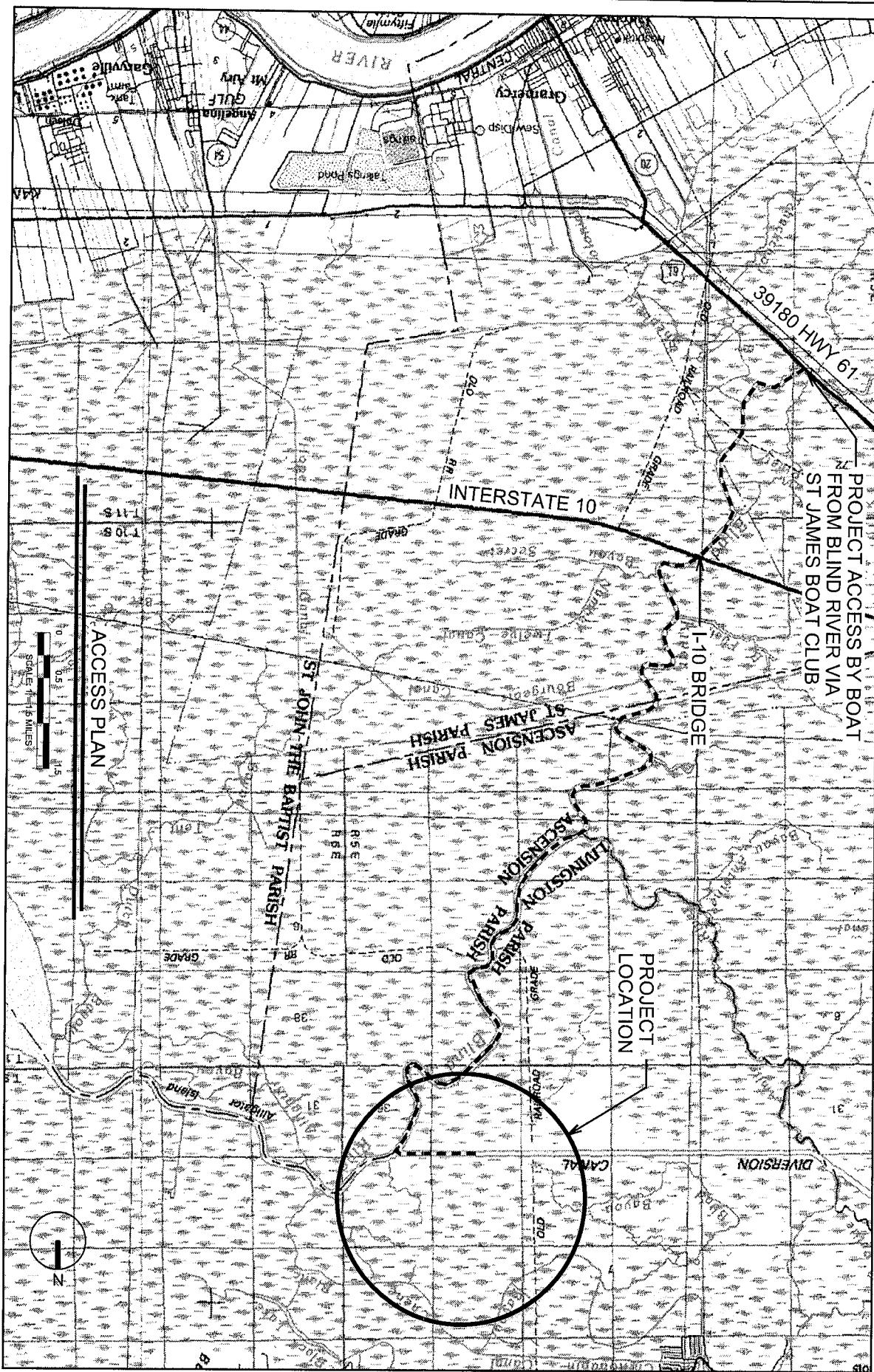
39180 HWY 67

I-10 BRIDGE

PROJECT
LOCATION

INTERSTATE 10

ACCESS PLAN

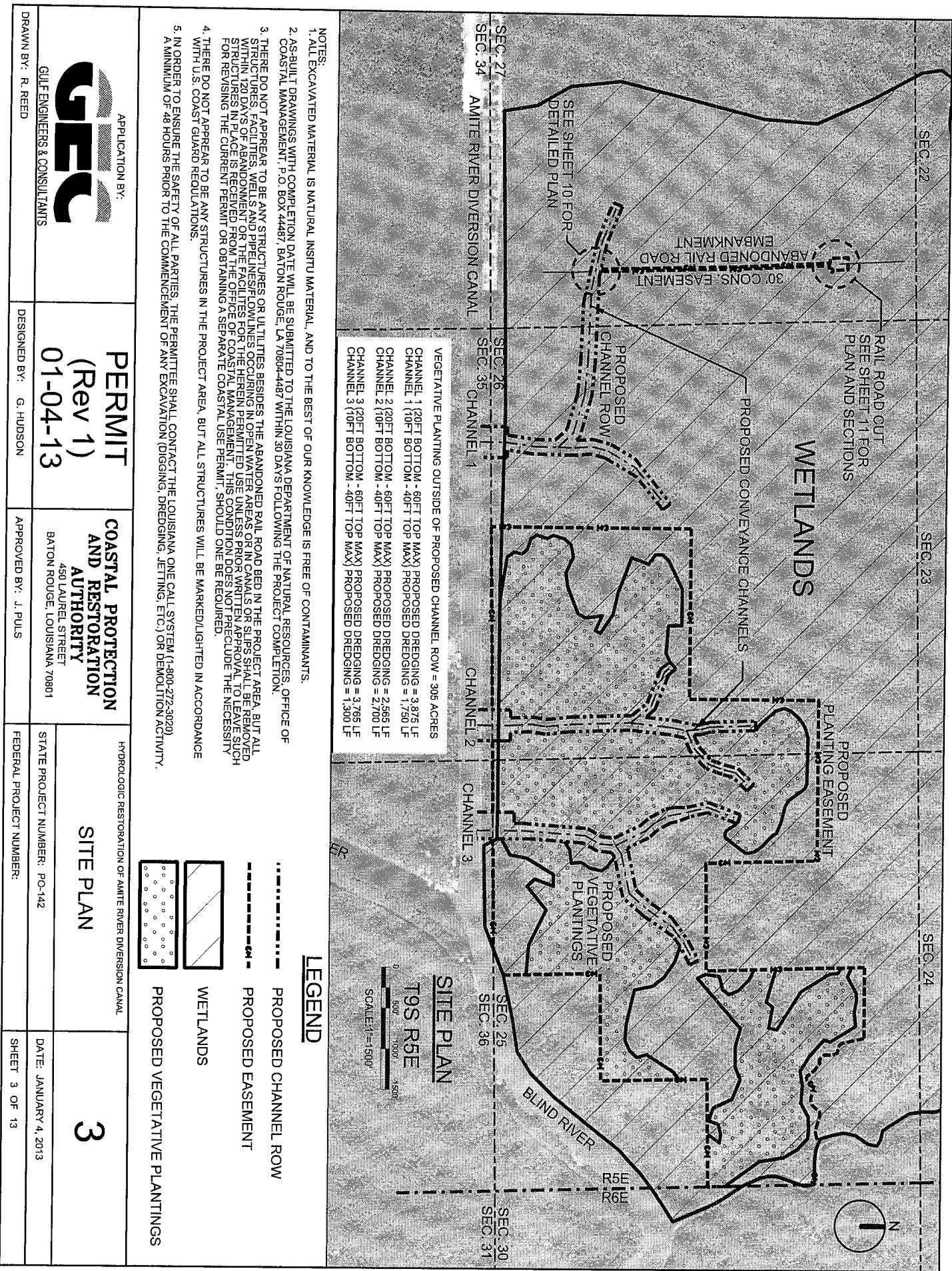


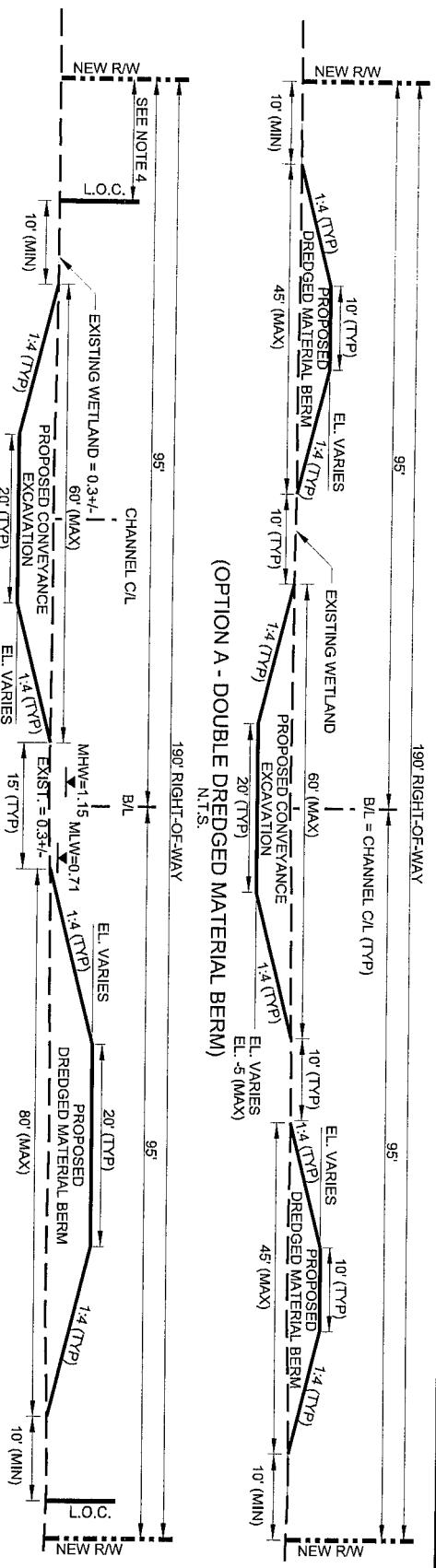
APPLICATION BY:



GULF ENGINEERS & CONSULTANTS

	PERMIT (Rev 1) 01-04-13	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	HYDROLOGIC RESTORATION OF AMITE RIVER DIVERSION CANAL ACCESS PLAN	2
DRAWN BY:	R. REED	APPROVED BY:	J. PULS	FEDERAL PROJECT NUMBER: STATE PROJECT NUMBER: PO-142 DATE: JANUARY 4, 2013
DESIGNED BY:	G. HUDSON			SHEET 2 OF 13





NOTES:

1. THE CONTRACTOR SHALL EXCAVATE THE CHANNELS TO THE BEST OF HIS ABILITY TO MATCH THE TYPICAL CHANNEL SECTION, BUT SHALL REACH THE INTENDED INVERT (-0.5' TO +0.5') AND PROVIDE THE DESIGNED CONVEYANCE AREA. PAYMENT WILL BE MADE BASED ON FINAL CONSTRUCTION CROSS SECTION SURVEYS OF THE CHANNEL AND REQUIRED EXCAVATED CONVEYANCE AREA (+/10% TOLERANCE FOR PAYMENT).

2. FOR THE SECTION WHERE THE 20' CHANNEL BOTTOM (TYPICAL) IS REQUIRED, THE CONTRACTOR MAY PLACE THE EXCAVATED EARTHEN DREDGED MATERIAL ON BOTH SIDES OF THE CHANNEL AS SHOWN IN OPTION "A", OR ON ONLY ONE SIDE AS SHOWN IN OPTION "B", DEPENDING ON THE LIMITS OF THE CONTRACTOR'S EQUIPMENT.

3. THE CONTRACTOR HAS THE OPTION OF "MEANDERING" THE CHANNEL CENTERLINE WITHIN THE RIGHT-OF-WAY TO AVOID TREES AND OBSTRUCTION FOR THE SECTION WHERE THE 10' CHANNEL BOTTOM (TYPICAL) IS REQUIRED, AND FOR THE 20' CHANNEL BOTTOM OPTION "B", WHERE THE DREDGED MATERIAL IS PLACED ON ONLY ONE SIDE OF THE CHANNEL, THE DREDGED MATERIAL MAY BE PLACED ON EITHER SIDE OF THE CHANNEL AT THE CONTRACTOR'S CONVENIENCE WHEN THE CHANNEL FLOWS TO THE SOUTH. WHEN THE CHANNEL FLOWS TO THE EAST OR WEST THE DREDGED MATERIAL SHALL BE PLACED ON THE SOUTH SIDE OF THE CHANNEL. THE CONTRACTOR MAY USE OPTION "A" OR "B" OR ANY COMBINATION AT HIS CONVENIENCE.

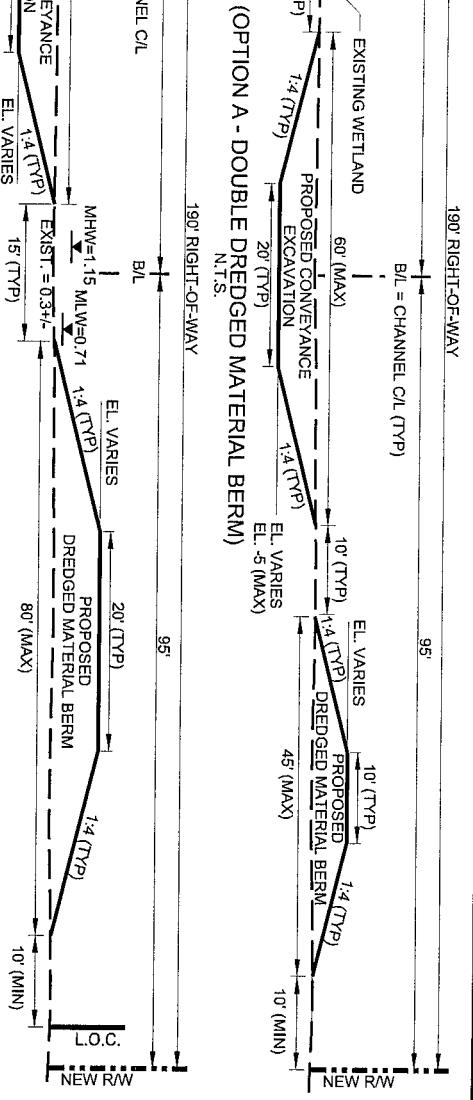
4. THE CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION FROM THE CHANNEL SECTION AND PLACE TO THE SIDE WITHIN THE RIGHT-OF-WAY (ROW). HE IS NOT REQUIRED TO, AND PREFERRED IF HE DOES NOT, REMOVE ALL TREES AND VEGETATION WITHIN THE RIGHT-OF-WAY. IT IS PREFERRED THE CONTRACTOR ONLY REMOVE THE TREES THAT OBSTRUCT HIS ACCESS OR DREDGED MATERIAL PLACEMENT. IF THE ALIGNMENT ALLOWS, THE CONTRACTOR IS ENCOURAGED TO MINIMIZE THE DISTURBANCE OF NATURAL HABITAT WITHIN THE ROW AND REDUCE THE LIMITS OF CONSTRUCTION (LOC.) TO THE BEST OF HIS ABILITY.

5. THE DREDGED MATERIAL BERM SHALL NOT BE CONTINUOUS AND SHALL HAVE "GAPS" TO ALLOW THE UNOBSTRUCTED FLOW OF WATER. THE GAPS SHALL HAVE A MINIMUM OPENING OF 50', AND SHALL BE SPACED AND SIZED SO THE GAP LENGTH IS APPROXIMATELY 25% OF THE DREDGED MATERIAL BERM LENGTH. THE DREDGED MATERIAL BERM SHALL NOT BE CONTINUOUS FOR MORE THAN 400'.

6. THE DREDGED MATERIAL BERM SIDE SLOPES SHALL BE APPROXIMATELY 1 ON 4.

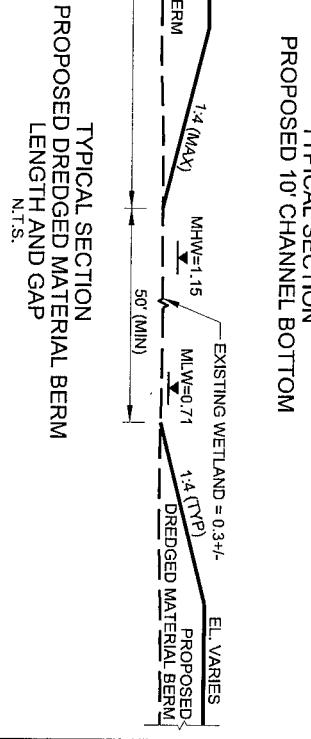
7. THERE SHALL BE A 50' TRANSITION BETWEEN THE 20' AND 10' TYPICAL CHANNEL BOTTOM SECTIONS WHEN THE CHANGE DOES NOT OCCUR AT A JUNCTION.

8. USGS 07380215 AMITE RIVER AT Hwy 22 NEAR MAUREpas USED FOR MEAN HIGH AND LOW WATER (MHW) = 1.15, AND MEAN LOW WATER (MLW) = 0.71. EXISTING GROUND = 0.3+/-.



TYPICAL SECTION
PROPOSED 20' CHANNEL BOTTOM
OPTION "A" AND/OR "B")

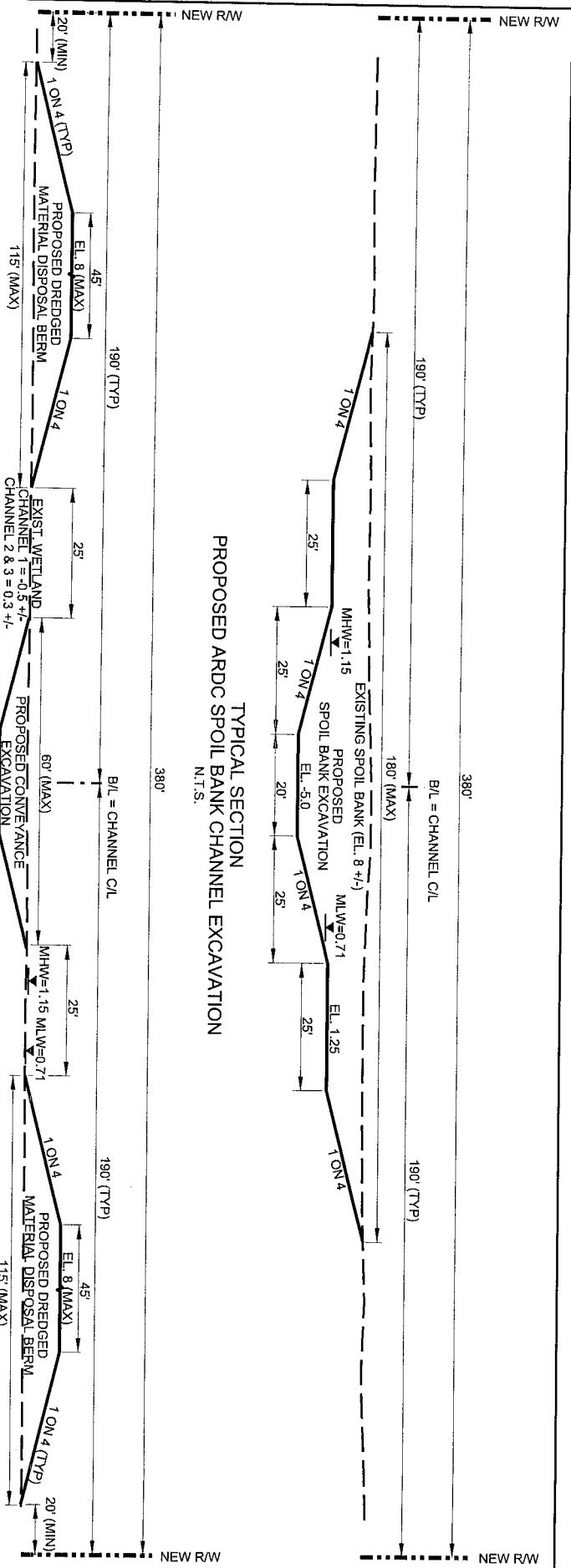
TYPICAL SECTION
PROPOSED 10' CHANNEL BOTTOM



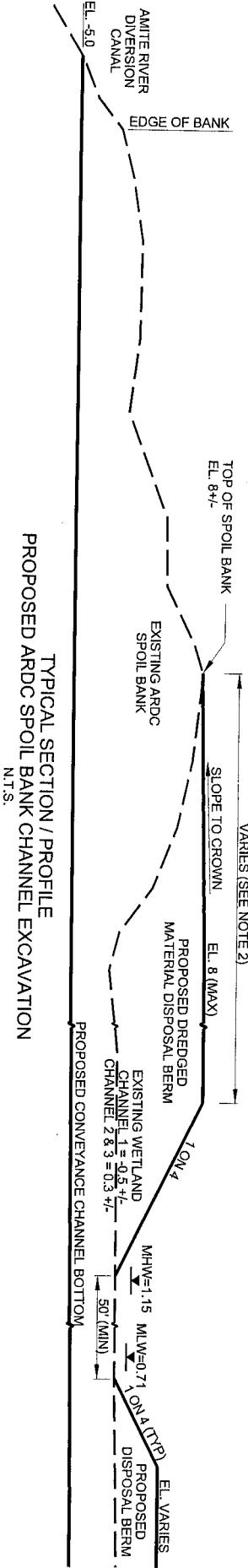
TYPICAL SECTION
PROPOSED DREDGED MATERIAL BERM
LENGTH AND GAP
N.T.S.

APPLICATION BY: GEC GULF ENGINEERS & CONSULTANTS	PERMIT (Rev 1) 01-04-13	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	HYDROLOGIC RESTORATION OF AMITE RIVER DIVERSION CANAL TYPICAL SECTIONS CONVEYANCE CHANNELS	4
DRAWN BY: R. REED	DESIGNED BY: G. HUDSON	APPROVED BY: J. PUSS	STATE PROJECT NUMBER: PO-142	DATE: JANUARY 4, 2013
FEDERAL PROJECT NUMBER:	SHEET 4 OF 13			

PROPOSED ARDC SPOIL BANK CHANNEL EXCAVATION
N.T.S.



PROPOSED ARDC SPOIL BANK CHANNEL DISPOSAL
N.T.S.

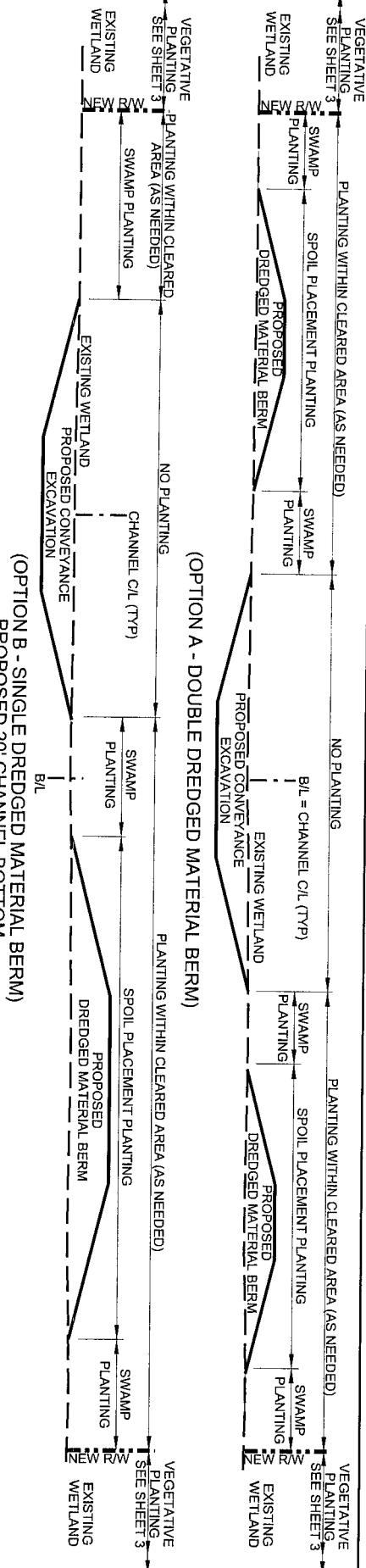


**TYPICAL SECTION / PROFILE
PROPOSED ARDC SPOIL BANK CHANNEL EXCAVATION**
N.T.S.

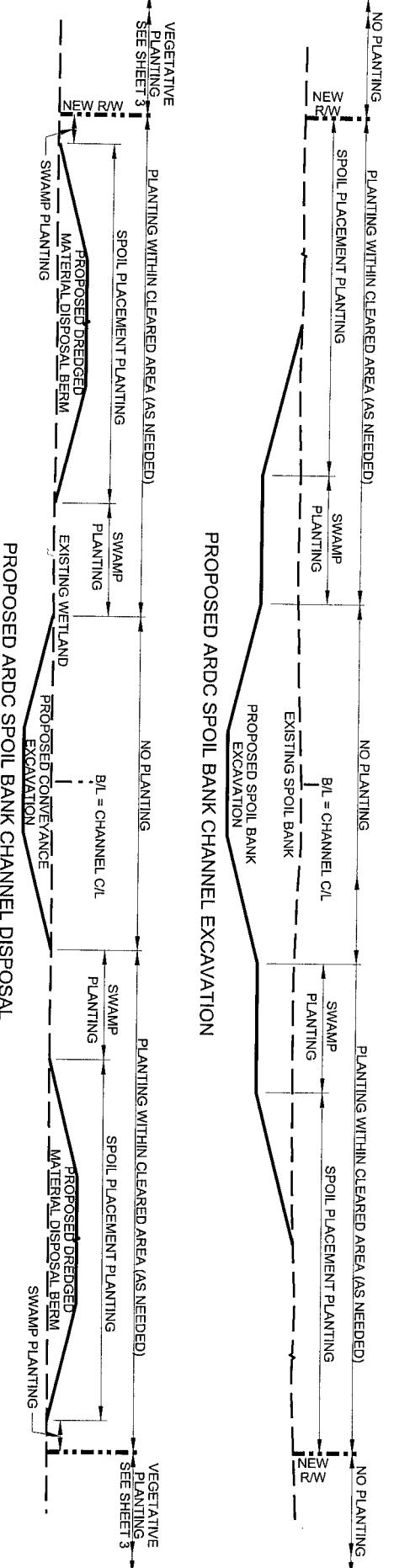
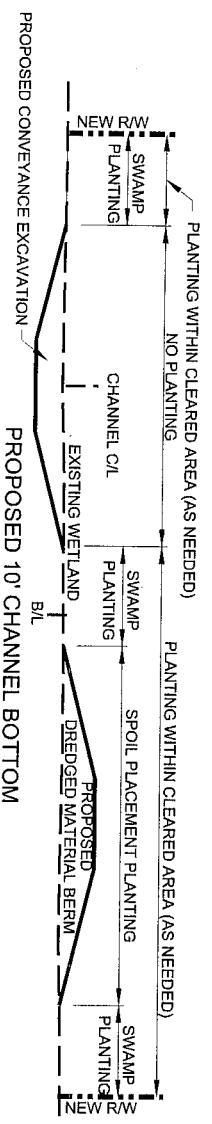
NOTES:
 1. SEE SHEET 7 FOR TYPICAL PLANVIEW. SPOIL BANK OPENING SITE 3 HAS THE DISPOSAL BERM ON THE WEST SIDE ONLY (SEE SHEET 8) AND IS NOT TYPICAL.
 2. THE PROPOSED DISPOSAL BERM LENGTH VARIES FOR EACH CHANNEL. THE FOLLOWING LENGTHS ARE APPROXIMATE.
 CHANNEL 1 = 110', CHANNEL 2 = 160', CHANNEL 3 = 220'

APPLICATION BY: GEC GULF ENGINEERS & CONSULTANTS	PERMIT (Rev 1) 01-04-13	COASTAL PROTECTION AND RESTORATION AUTHORITY 450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	HYDROLOGIC RESTORATION OF AMITE RIVER DIVERSION CANAL TYPICAL SECTIONS SPOIL BANK EXCAVATION	5
DRAWN BY: R. REED	DESIGNED BY: G. HUDSON	APPROVED BY: J. PULS	STATE PROJECT NUMBER: PO-142	DATE: JANUARY 4, 2013

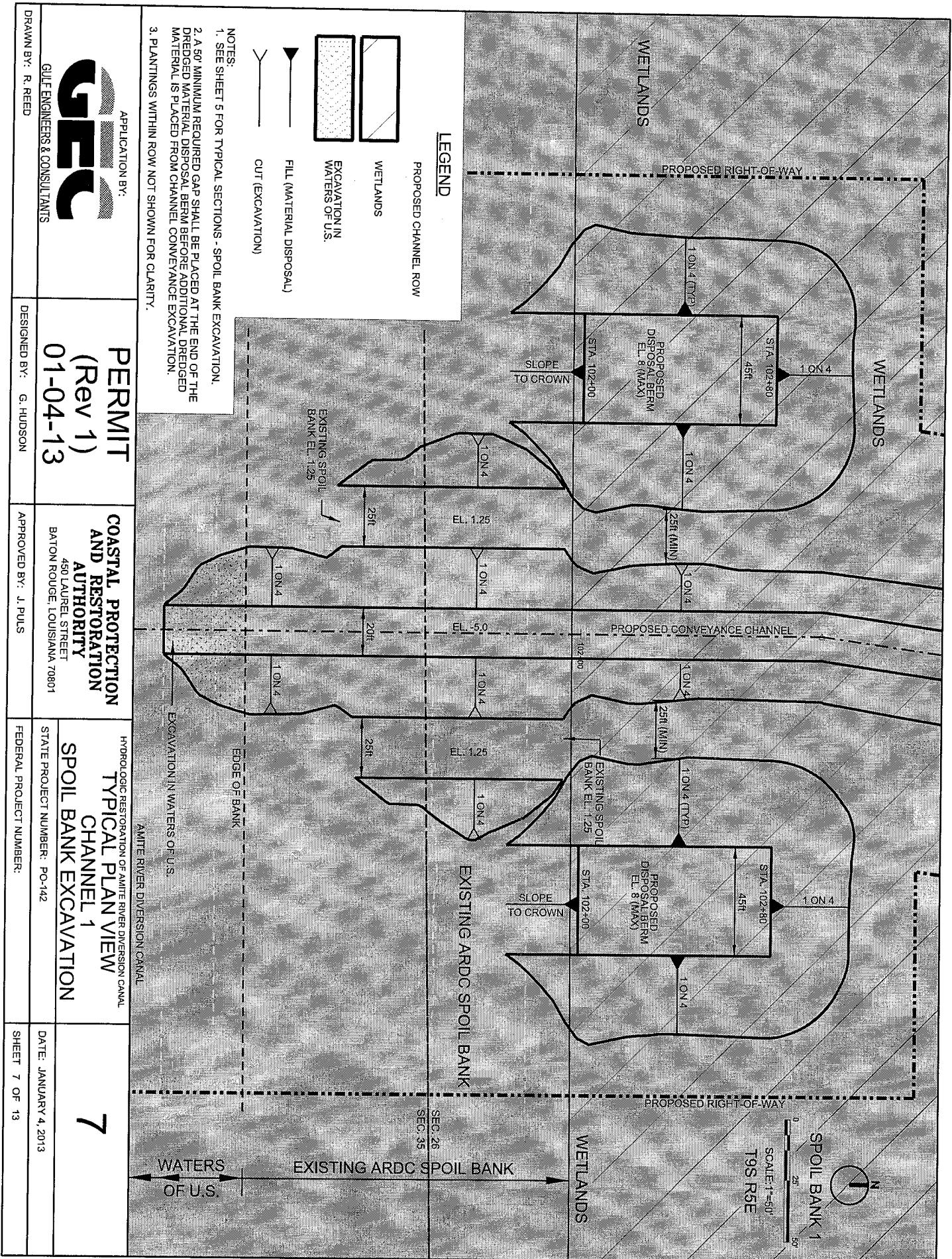
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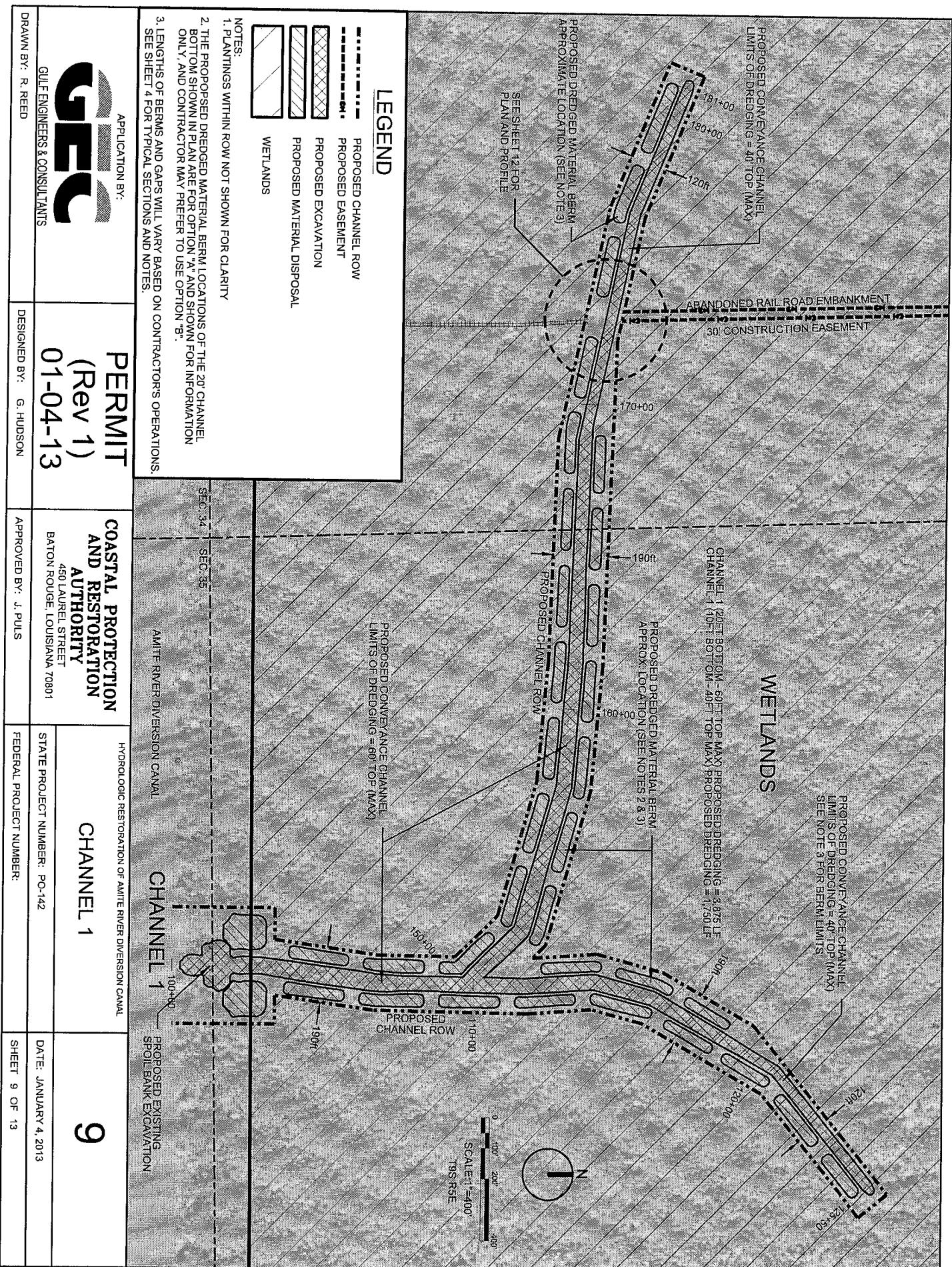


(OPTION B - SINGLE DREDGED MATERIAL BERM)
PROPOSED 20' CHANNEL BOTTOM



APPLICATION BY:	PERMIT (Rev 1)	COASTAL PROTECTION AND RESTORATION AUTHORITY	TYPICAL SECTIONS VEGETATIVE PLANTINGS	6
GULF ENGINEERS & CONSULTANTS	01-04-13	450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	HYDROLOGIC RESTORATION OF AMITE RIVER DIVERSION CANAL STATE PROJECT NUMBER: PO-142	
DRAWN BY: R. REED	DESIGNED BY: G. HUDSON	APPROVED BY: J. PUUS	FEDERAL PROJECT NUMBER: SHEET 6 OF 13	





LEGEND

	PROPOSED CHANNEL ROW
	PROPOSED EASEMENT
	PROPOSED EXCAVATION
	PROPOSED MATERIAL DISPOSAL
	WETLANDS
	PROPOSED VEGETATIVE PLANTINGS

NOTES:

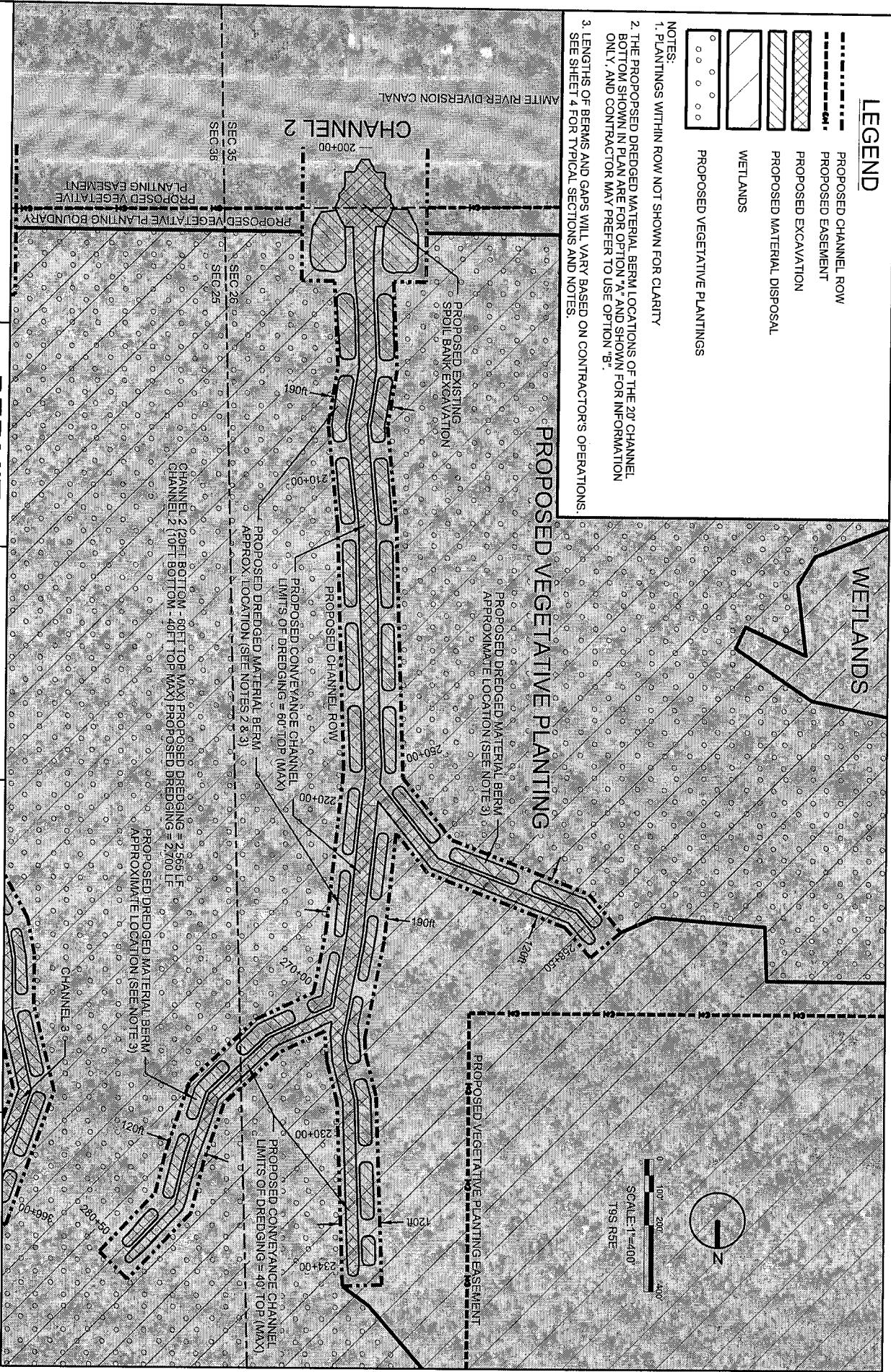
1. PLANTINGS WITHIN ROW NOT SHOWN FOR CLARITY
2. THE PROPOSED DREDGED MATERIAL BERM LOCATIONS OF THE 20' CHANNEL BOTTOM SHOWN IN PLAN ARE FOR OPTION 'A' AND SHOWN FOR INFORMATION ONLY, AND CONTRACTOR MAY PREFER TO USE OPTION 'B'.
3. LENGTHS OF BERMS AND GAPS WILL VARY BASED ON CONTRACTOR'S OPERATIONS.
SEE SHEET 4 FOR TYPICAL SECTIONS AND NOTES.

PROPOSED VEGETATIVE PLANTING

PROPOSED DREDGED MATERIAL BERM APPROXIMATE LOCATION (SEE NOTE 3)

PROPOSED VEGETATIVE PLANTING EASEMENT

SCALE 1:400
TFS R5E



APPLICATION BY:

**PERMIT
(Rev 1)
01-04-13**

COASTAL PROTECTION
AND RESTORATION
AUTHORITY

450 LAUREL STREET
BATON ROUGE, LOUISIANA 70801

CHANNEL 2

10

HYDROLOGIC RESTORATION OF AMITE RIVER DIVERSION CANAL

STATE PROJECT NUMBER: PO-142

DATE: JANUARY 4, 2013

FEDERAL PROJECT NUMBER:

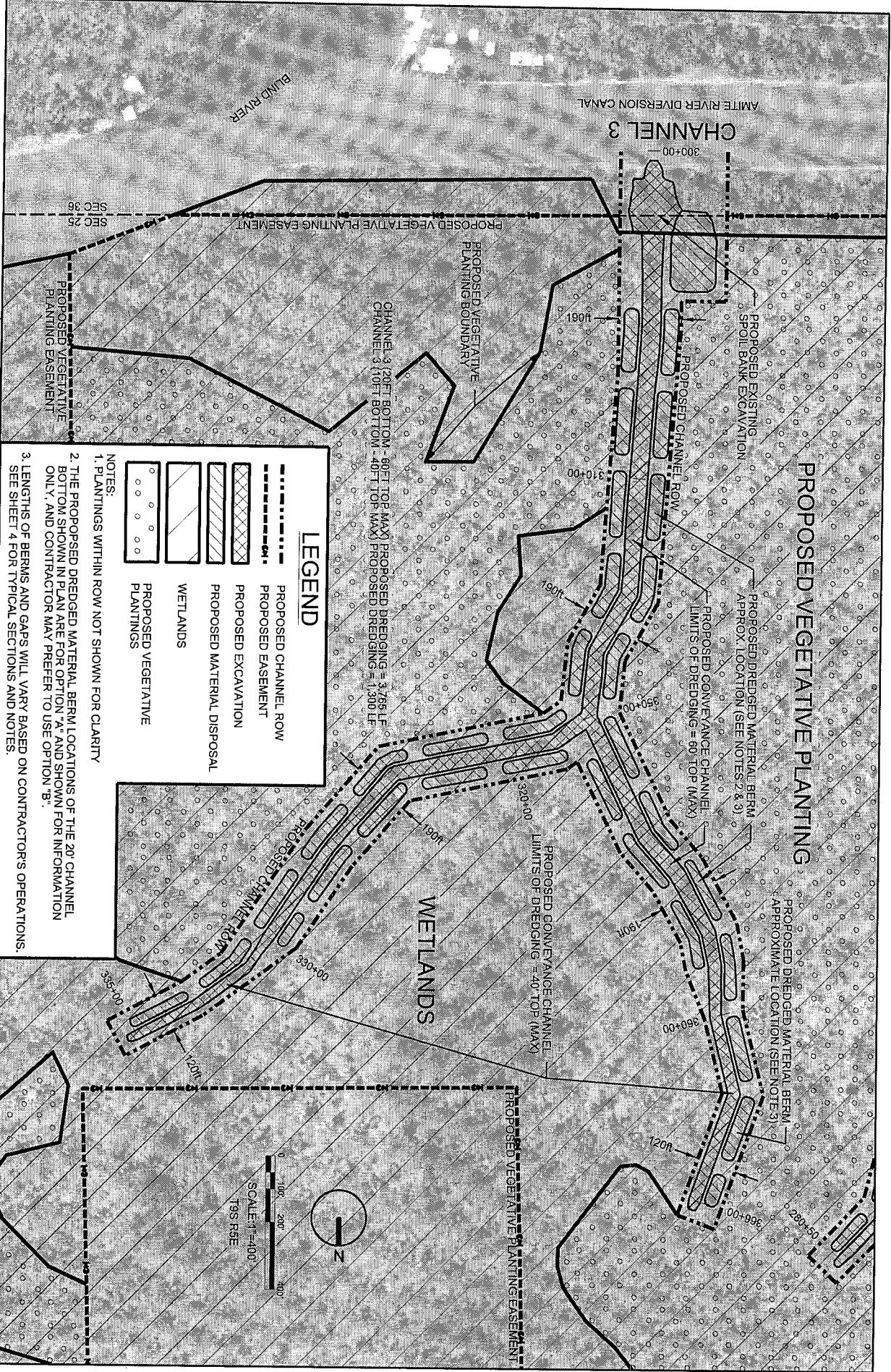
SHEET 10 OF 13

DRAWN BY: R. REED

DESIGNED BY: G. HUDSON

APPROVED BY: J. PULS

PROPOSED VEGETATIVE PLANTING



APPLICATION BY:  GULF ENGINEERS & CONSULTANTS	
PERMIT (Rev 1) 01-04-13	COASTAL PROTECTION AND RESTORATION AUTHORITY
450 LAUREL STREET BATON ROUGE, LOUISIANA 70801	CHANNEL 3
DRAWN BY: R. REED DESIGNED BY: G. HUDSON APPROVED BY: J. PULS	STATE PROJECT NUMBER: PO-142 DATE: JANUARY 4, 2013 FEDERAL PROJECT NUMBER: SHEET 11 OF 13

