

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO. 0001	3. EFFECTIVE DATE 14-Jun-2023	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO.(If applicable)
6. ISSUED BY USACE, CONTRACTING DIVISION ATTN: CEMVN-CT, ROOM 172 7400 LEAKE AVE. NEW ORLEANS LA 70118-3651	CODE W912P8	7. ADMINISTERED BY (If other than item 6) See Item 6		
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)		X	9A. AMENDMENT OF SOLICITATION NO. W912P823B0039	
		X	9B. DATED (SEE ITEM 11) 16-May-2023	
			10A. MOD. OF CONTRACT/ORDER NO.	
			10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u>1</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
12. ACCOUNTING AND APPROPRIATION DATA (If required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).				
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) The above numbered Solicitation for West Shore Lake Pontchartrain, Louisiana, Hurricane and Storm Damage Risk Reduction Project, Levees and I-10 West T-Wall Crossing, WSLP-106, St John the Baptist Parish, Louisiana has been amended to: a) Provide updated plans and specifications. b) Provide updated bid schedule. c) Provide answers to prior questions d) All questions are due NLT 11:00am CST on June 22, 2023 e) Bid submission date changed to June 29, 2023, at 10:30am CST				
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
		TEL:	EMAIL:	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
_____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)		14-Jun-2023

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION SF 30 - BLOCK 14 CONTINUATION PAGE

The following have been added by full text:

RESPONSES TO QUESTIONS

WSLP-106 PRE-BID QUESTIONS

1. Section 31 62 16.00 indicates the 2 nonproduction piles used for PDA testing are shown on the plans.

What plan sheet shows these locations? **Location not shown on drawings. PDA test piles shall be located within 200 ft of I-10 bridges unless the preload construction is underway. PDA test piles shall be located between the I-10 bridges or no more than 50 ft outside the I-10 bridges if preload construction is underway. The PDA test piles may be used as part of the Contractor's TRS. Settlement and vibration monitoring of the I-10 bridges must be established and approved prior to driving PDA test piles.**
2. Are these two PDA test piles to be driven plumb? **Yes, driving the test piles plumb is acceptable.**
3. Note 9 on sheet S-404 states the TRS piles shall be cut off at the existing canal mudline. Will we be allowed to pull the TRS sheeting that are south of the EBL bridge and north of the WBL bridge with a vibratory hammer? **No. All TRS sheeting shall remain below the mudline.**
4. Section 01100 paragraph 11 – Order of Work mentions Access Road J, but this road is not indicated on the plans. Is this a typo? If not, please indicate this access road on the plans. **Yes this should say Access Road F. This will be clarified by Amendment. This is addressed by Amendment 0001.**
5. Is there an access road to the WSLP-106 jobsite on the north side of I-10? Or is the intent for the entire project to be accessed from the south side of I-10? **No. The access is as shown on the drawings.**
6. Sheets S-302 and S304 reference Standard Mechanical Couplers, both vertical and horizontal. How many of each are required and what are the sizes? **Exact quantity will depend on Contractor's rebar layout with respect to the 45 ft wide lowered wall section under the bridges. Vertical bars are #9s spaced at 6" on the flood side and 12" on the land side of the wall, however, vertical couplers may be spaced at 12" on both sides of the wall. Horizontal bars are #9s at 12" on flood side and land side of wall. Total of 228 #9 bar couplers estimated. Spacing of couplers shall not exceed 12 inches on center horizontally or vertically.**
7. Are geotextile fabric and crushed stone in the temporary roads inside the TRS shown on plan sheet S404 measured for payment or is it incidental to the TRS? **Temporary access road is to be designed by the Contractor. Temporary access road through the TRS is incidental to the TRS and shall be included under TRS item.**
8. Please provide Government's estimated quantities for Job items. **Will provide. This is addressed by Amendment 0001.**
9. The take-off quantity for Rip Rap seems to indicate the Rip Rap at the 72" culvert pipe crossing will be measured for payment under item 0037, but the Measurement and Payment paragraph in the spec states that the Rip Rap at the CMP Culverts is incidental to the Culvert item. Please confirm the Rip Rap at the CMP Culverts will not be part of item 0037. **Riprap at CMP culverts is to be included under item 0035 and not be measured for payment. The 936 TON of Riprap listed for item 0037 is meant to include all riprap within the sheeted section of interior channel at I-10 bridges.**
10. Is Reserve Relief canal navigable for crane mounted barges and material deliveries from Lake Maurepas? **The Government cannot attest to whether the Reserve Relief is navigable.**

11. Does the contractor have right of way to utilize the Reserve canal from Lake Maurepas? **No. Provided access to the project is via Access Road F. The contractor, however, has the option to obtain right-of-way for his own convenience as specified in the project specifications.**
12. Is the contractor allowed to perform excavation within the Reserve canal for floating plant access? **No. The Contractor, however, has the option to obtain rights to perform excavation of the channel as specified in the project specifications.**
13. Are the pile supported warning signs and navigation lights intended to be permanent? ((add to TRS Section) **Warning signs are permanent. The navigation lights are to be temporary during construction to protect the TRS and boaters during construction. Specifications for the lights shall meet industry standards and be submitted for review and approval as part of the TRS submittal. The sign should be typical regulatory marker used to aid navigation. Signs shall be located on each side of the floodwall in the middle of the channel. Sign panels shall 2'x4' and be fabricated in one piece from 0.125inch thick, 5052-H38 or 6061-T6 Aluminum Alloy conforming to the requirements of ASTM B 209. Warning signs shall be reflectorized with florescent orange retro reflective sheeting. Illustration below.**



14. Are there specifications for these warning signs and navigation lights? **See response above.**
15. The approximate location of these warning signs as shown on plan sheet S-403 would block access for floating plant. Could these signs be offset to the side to allow safe passage of marine plant? **Location may be adjusted as necessary for floating plant access but shall remain as close as practical to middle of canal. Warning sign shall be further away from TRS in east-west direction than floating plant but within the project right of way.**
16. Specification 01100, paragraph 30 states "Note that there is an active existing 4" ethylene Shell gas line to be relocated by the Owner before the interior drainage channel work may be performed".

When is this relocation work scheduled to begin and when is this relocation work scheduled to be completed? The interior drainage channel is one of the very first orders of work and must follow embankment operations and be completed prior to TRS construction. Any delay in Shell's relocation is critical to an already tight schedule of 1,095 calendar days.

The relocation will be complete no later than April 1, 2024 as per Note 5 on the bid schedule. Note the work option will not be exercised until the Shell relocation work is complete.

17. Specification 01100, paragraph 33 states "No H-piling for the T-walls shall be driven until the preload is complete and the preload has been removed. No H-piling shall be ordered until after the PDA testing is complete and final pile lengths have been provided by the Administrative Contracting Officer". Can the PDA testing be performed prior to the preload being complete and removed? Can no h-pile for the T-wall be driven until both preloads have been removed? **The intent is for no piles to be driven immediately adjacent to the preload so that the test does not include improvements to soil via the preload. PDA test piles shall be located within 200 ft of I-10 bridges unless the preload construction is underway. PDA test piles shall be located between the I-10 bridges or no more than 50 ft outside the I-10 bridges if preload construction is underway. The PDA test piles may be used as part of the Contractor's TRS. Settlement and vibration monitoring of the I-10 bridges must be established and approved prior to driving PDA test piles.**

Monoliths BR1, T5, T6, T7 and BR2 may have H-piles installed during the preloading. Installation of piles for T1-4 will have to wait until after the preloading is complete south of I-10. Installation of piles for T8-11 will have to wait until after the preloading is complete north of I-10.

18. Please consider extending the period for questions. **This is addressed by Amendment 0001.**
19. Specification section 01 53 00.02 12, paragraph 1.2.2 states that flood event price and payment includes all work required to repair and restore all damage to temporary construction and that repairing damage to permanent construction is in accordance with the changes clause. Paragraph 1.4 states that the contractor is responsible to repair and restore damage to temporary and/or permanent items. Please clarify if the contractor is responsible for the cost of repairing and restoring damage to permanent items caused by a flood event or if damage to permanent items will be handled under the changes clause. **Damage to permanent items will be handled by the changes clause.**
20. Specification section 01 53 00.02 12, paragraph 3.1.3 mentions vibratory hammers. Note 4 on drawing S-404 states that the use of vibratory hammers is not allowed for the installation of any piling. Please clarify. **No vibratory hammers are allowed. Reference to vibratory hammers in 3.1.3 to be deleted.**
21. Specification section 31 41 16.00 12, paragraph 3.1.1.3 states that the use of a vibratory hammer is not allowed for driving sheet piles under and on each side of the I-10 bridges for monoliths BR-1 and BR-2 and for each wall of the interior canal.
- Can vibratory hammers be used to install permanent sheet piles for all other monoliths outside of BR-1 and BR-2? **No.**
- Can vibratory hammers be used to install the angled legs of the interior drainage channel sheet pile walls that are outside of the bridge limits? **No**
- Can vibratory hammers be used to install temporary sheet piles outside of BR-1 and BR-2? **No**
22. Is there a certain distance equipment and pile driving leads must stay away from the I-10 bridges? **No pile driving equipment shall come into contact with the existing bridges. No pile driving equipment shall encroach between the outside of the concrete barrier rails in the space above the bridge decks. Piles must have at least 3 diameter spacing from the existing 54" oval bridge piles. The Contractor shall orient pile driving equipment so as to not jeopardize public safety on the roadway.**
23. Will any type of traffic control and/or traffic control devices need to be implemented on the I-10 bridges when installing full length piling next to the bridges? **No.**
24. Specification section 03 31 00.00 12, paragraph 3.1.4.6 states that concrete pumps may be used when approved.
- Will concrete pumps be allowed? **No objection if all the requirements listed for pumping are met.**
25. The cross sections on drawings C-301 thru C-306 depict the sand base and levee embankment being placed below the existing ground line. Is the Government's intent to excavate to these template lines and grades prior to placing the sand base and levee embankment? **No. Cross Sections shall be revised by Amendment. This is addressed by Amendment 0001.**
- If this area is to be excavated, can the material be spread onsite? **This area is not to be excavated and will be clarified by Amendment. This is addressed by Amendment 0001.**
- Will this material be measured for payment from the template line shown on Drawings C-301 thru C-306? **This area is not to be excavated and will be clarified by Amendment. This is addressed by Amendment 0001.**
26. Is the embankment material placed in the preload sections measured and paid under the "Embankment, Compacted Fill" item? **Yes.**

27. Drawing C-206, note 10 states that 4.75 feet of settlement is anticipated by the end of construction. How much settlement is anticipated during the initial 6 month preload hold period? **4.75 ft of settlement is anticipated for center of levee at end of construction. Note 10 is incorrect for the preload. Settlement at center of preload after initial 6 months is expected to be 1.5 ft to 2.5 ft. Total settlement at end of construction is expected to be 5 ft to 7 ft at the center of the preload. A revised C-206 will be issued by Amendment.**
28. How is the additional embankment material that will be required due to settlement of the preloads during the stage 1 hold period measured for payment? **All settlement of embankment is to be measured by survey via the use of settlement plates with riser pipes.**
29. Please confirm that settlement gages will be used to measure settlement during the Stage 2 6 month hold period and the Stage 3 8 month hold period. **Yes.**
30. Section 00010 Bidding Schedule, Items 0022, Item 0023, Item 0024, and Item 0025 are all shown with LF as the unit. Please clarify. **This is a typo. Items 0022 thru 0025 for sheet piling are to be measured by SF. This is addressed by Amendment 0001.**
31. What is the length of the CSX gas line to be removed? **The pipe shall be removed within the limits of the Option Work Area. This measures to be approximately 107 LF of pipe.**
- Is it removed from the R.O.W to R.O.W limits? **No. Removal outside of the WSLP 106 Option Work area will be done under another Contract as necessary.**
32. Does the I-10 Canal Spoils that are noted to be removed, need to be hauled offsite?
Or can the spoils be spread between the toe of the new levee and the new Drainage Channel?
I-10 canal spoil need not be removed from site. Placement of this spoil between the interior channel and toe of levee is acceptable similar to channel excavated material. Placement of this material is not allowed near I-10 bridges (see note at bottom of C-202).
33. Specification section 31 11 00.00 12 is unclear whether the stumps between the levee toe and the drainage channel are required to be removed. Can the stumps in this area remain in place, or do they need to be removed? Please clarify. **See section on C-200 which assists in showing clearing and grubbing limits. Stump removal is listed under grubbing. Grubbing is not required between the interior channel and 15 ft beyond toe of levee.**
34. Specification section 01100, paragraph 3(h) requires a temporary safety fence around the I-10 bridge area as shown on the drawings. No information is shown on the drawings. Please clarify. **No temporary safety fence will be required. This paragraph will be deleted by amendment. This is addressed by Amendment 0001.**
35. Specification section 00100 Instructions to Bidders, paragraph bid opening. Please confirm that the date and time for the bid opening is June 20, 2023 at 10:30 AM. **The Bid Opening is amended to Thursday, June 29, 2023, at 11:30 am CST. The Contracting Officer and Contract Specialist will begin downloading bids at 10:30 AM CST, which is the bid submission receipt cutoff time. All bids received after 10:30 AM CST on Thursday, June 29, 2023, will be considered late.**
36. Drawing C-211 "Typical Full Levee Section" detail shows the wick drain tip elevation at -30.0. "Horizontal Strip Drain and Wick Drain Overlap Details (Plan View)" notes Vertical Wick Drain Installed to Tip at EL - 50.0. **El. -30.0 is correct for WSLP 106. Drawing to be revised by Amendment. This is addressed by Amendment 0001.**
37. There appears to be a typo regarding the bid opening date listed on page 12 of the specifications. It is listed as May 20, but should be listed as June 20, 2023 per the latest solicitation. **The Bid Opening is amended to Thursday, June 29, 2023, at 11:30 am CST. The Contracting Officer and Contract Specialist will begin downloading bids at 10:30 AM CST, which is the bid submission receipt cutoff time. All bids received after 10:30 AM CST on Thursday, June 29, 2023, will be considered late.**
38. Is there an approximate acreage for clearing and grubbing? **Approximate area of clearing under base work is 44 acres. Approximate area of grubbing under base work is 27 acres.**

39. Has the shell pipeline been relocated? If not, will it be relocated before a notice to proceed is issued?
No. The work option will not be exercised until relocation by the utility owner is complete or no later than April 1, 2024 as per Note 5 on the bid schedule.
40. What is the depth, length and size of the CSX pipeline to be removed? **The CSX line is 6" diameter. Line is to be removed within the limits of the Option Work estimated at 107 LF. Depth of burial is approximately 5 ft.**
41. Is there contact information for the former owner of the CSX pipeline if more information is desired before removal? **The line is abandoned. Contacting the owner of the abandoned line is not required. See spec section 01100 paragraph 10 (c) which lists contact phone number for the Louisiana Gas Development Corporation.**
42. Is the steel catwalk to be paid for by the miscellaneous metalwork bid item, or should it be included with the reinforced concrete floodwall bid item? **See spec section 05 50 04.02 12 for miscellaneous metalwork paragraph 1.2 which lists the catwalk as part of the work.**
43. Please provide a breakdown of lump sum items. **See question 50. This is addressed by Amendment 0001.**
44. Can you please provide estimated quantities on items of work for which bids are being solicited on a job/lump sum basis? **See question 50. This is addressed by Amendment 0001.**
45. Can you please provide an approximate depth of the gas lines marked "do not disturb" as referenced on sheet V-101, and will the location of these line be field marked/identified by the respective companies before a notice to proceed is issued? **The access road across these lines is outside of the project right of way and will be constructed prior to NTP.**
46. "Please confirm the total width of the reinforcement fabric in regards to both "Typical Levee Section at Turnaround" on Sheet C-201, "Typical Levee Section at Grouted Riprap" on Sheet C-202, and "Typical Sections" Monoliths T1 and T11 and Monoliths T2 and T10 on Sheet C-202." **Refer to C-206 for the Geotextile within the surcharge. The rest of the levee is a constant width.**
47. CLIN 0022 through 0025- should this measurement be SF in lieu of LF? **This is addressed by Amendment 0001.**
48. Sheet C-207 Phase 2. Note 2- Do not close off the middle of the existing I-10 canal until approved by the contracting officer. In planning our sequence & mean/methods, please elaborate/provide more detail on this requirement and when approval will or will not be granted (ie. what is closing this contingent on or what would not allow it to be closed) (as the project permanently closes this path). **The closing of the canal is contingent on the establishment of the interior drainage channel on the land side of the levee alignment connecting the I-10 canal back to the Reserve Relief Canal to maintain drainage patterns. See Phase 2, note e. The interior channel will route water around the WSLP 106 floodwall crossing to a pump station (by others) at Reserve Relief Canal. The connection of interior channel to Reserve Relief Canal is the Option Work on this project and cannot be completed until the existing gas line is relocated by Shell. Relocation of the Shell line is to be completed by no later than April 2024.**
49. Sheet C-009 there are notes between TRS and new drainage canal stating Existing I-10 canal spoil to be removed to El 0.0 between R/W to R/W. How is this work measured and paid? What are the north and south station limits of this requirement? **There will be no direct measurement for this work. Payment shall be included under "Drainage Channel Excavation" which is paid by JOB. Approximate north-south limits of existing canal spoil above El. 0.0 are shown in profile on Sheets C-103, C-106 and C-108.**
50. Can the Governments lump sum quantities be provided? **See below:**
LUMP SUM CONTRACT LINE ITEM'S(CLIN) ESTIMATED QUANTITIES:
 CLIN 0002- 107 LF
 CLIN 0009- 2466 CY
 CLIN 0010- 50,000 lbs
 CLIN 0014- 44 acres
 CLIN 0015- 57,000 CY
 CLIN 0016- 8,000 CY
 CLIN 0028- 2 piles

CLIN 0030- 40 LF
CLIN 0039- 1.2 acres
CLIN 0040- 5500 CY

SECTION 00010 - SOLICITATION CONTRACT FORM

CLIN 0022

The unit of issue has changed from Linear Foot to Square Foot.

CLIN 0023

The unit of issue has changed from Linear Foot to Square Foot.

CLIN 0024

The unit of issue has changed from Linear Foot to Square Foot.

CLIN 0025

The unit of issue has changed from Linear Foot to Square Foot.

CLIN 0029

The CLIN type priced has been deleted.
The pricing detail quantity 5,000.00 has been deleted.
The unit of issue Actual Tons has been deleted.
The FOB Destination has been deleted.
The PSC code Y1PZ has been deleted.
The PROG code C20 has been deleted.
The WSC Equipment code 000 has been deleted.
The NAICS code 237990 has been deleted.
The MDAP/MAIS Code 000 has been deleted.

SUBCLIN 0029AA is added to the bid schedule.

SUBCLIN 0029AB is added to the bid schedule.

SECTION 00100 - BIDDING SCHEDULE/INSTRUCTIONS TO BIDDERS

The following have been modified:

BIDDER INSTRUCTIONS
INSTRUCTIONS TO BIDDERS

SOLICITATION NUMBER: W912P823B0039

NOTE: BIDDERS MAY SUBMIT BIDS BY ONLY ONE METHOD: A) ELECTRONIC COMMERCE (EMAIL) OR BY 2) PHYSICAL SUBMISSION. BIDDERS SHALL LIMIT THE BID SUBMITTAL TO ONE OPTION OR THE OTHER, NOT BOTH.

Electronic Submission of Bids/Proposals (Email):

The New Orleans District utilizes electronic commerce (Email) for receipt of electronic bids under this IFB solicitation. To submit an electronic commerce (Email) bid please follow these steps:

1. Send an email containing your name, email address and bid/proposal to the following emails associated with the IFB (**MUST include all emails**):
 - Calvin.D.Fogle@USACE.ARMY.MIL
 - Margaret.C.Maine@USACE.ARMY.MIL
2. **ALL BIDS SUBMITTED BY EMAIL MUST CONTAIN THE SOLICITATION NUMBER IN THE SUBJECT LINE.**
3. Once the agency receives your bid/proposal at the above email addresses, you will then receive a confirmation email stating your bid/proposal was received. If a bidder does not receive a reply acknowledging receipt electronically from the New Orleans District, it is incumbent upon the bidder to seek confirmation from the issuing Contracting office by phone.

Note: The size limit for incoming emails is 35MB. Any bid/proposal over this size may not be accepted by the server and will constitute the bid not being received timely. Please note that embedded links, URLs, and other html language included may interfere with the USACE server security, which may cause emails to be removed prior to being received by the contracting office. Bidders are advised to refrain from including external links, embedded links, URLs, and other html language not germane to the proposal/bid. Please note it is a bidder's responsibility, when transmitting its bid electronically, to ensure the receipt of its bid to the proper designee at the proper time. See FAR 14.304(b)(1)(i) regarding untimely electronic bids. Please note, MVN's computer system firewall may cause a delay in receipt of emails, so be sure to allow ample time for possible delay. If your email would exceed 35MB you can use one of the following methods as a work-around:

- Use .zip files as attachments. Combine multiple files into a .zip file to compress file size prior to adding as an email attachment.
- Send multiple emails. Label each email with same subject line and indicate number of emails. For example: Smith Construction W912P823BXXXX (1 of 2) Smith Construction W912P823BXXXX (2 of 2).

Physical Submission of Bids:

Bidders may submit their bids by hand carrying or express mail to the New Orleans District Contracting Office in Room 172. Bidders are advised to allow adequate time to ensure timely submission of its bid. Traffic onto the New Orleans District campus may be delayed by trains blocking the entrance or security either at the gate and/or inside of the building. Express delivery may be utilized but it is incumbent upon the bidder to ensure bid delivery time and date is before the receipt of bid cutoff time. See FAR 14.304(b)(1)(ii) and (c).

Bid Opening:

The Bid Opening is amended to **Thursday, June 29, 2023, at 11:30 am CST**. The Contracting Officer and Contract Specialist will begin downloading bids at **10:30 AM CST**, which is the bid submission receipt cutoff time. All bids received after **10:30 AM CST on Thursday, June 29, 2023**, will be considered late.

Audio Teleconference Bid Opening Information:

Instructions as well as any subsequent audio teleconference Bid Opening Information will be provided on SAM.GOV prior to the final closing date of this solicitation. In the event of changes to the solicitation that require a change to the closing date/time, the bid opening Audio Teleconference information will be provided via amendment.

Following the conclusion of the bid opening, in accordance with FAR 14.403(b), abstracts of offers for unclassified acquisitions shall be available for public inspection via SAM.GOV.

SECTION 00010

Page 00010-3 thru 6. Delete these pages in their entirety and substitute the attached revised pages 00010-3 thru 6, therefore.

SECTION 00700

Page 49/818, clause 52.211- 52.236-4 PHYSICAL DATA. Delete this clause in its entirety and substitute the following, therefore:

“52.236-4 PHYSICAL DATA (APR 1984)

Data and information furnished or referred to below is for the Contractor's information. The Government shall not be responsible for any interpretation of or conclusion drawn from the data or information by the Contractor.

(a) The indications of physical conditions on the drawings and in the specifications are the result of site investigations by surveys and borings. Field notes, graphic boring logs, field and laboratory test results, and other data on which this information is based are available at U.S. Army Engineer District, New Orleans, Corps of Engineers, Attn: CEMVN-ED, 7400 Leake Avenue, New Orleans, LA 70118-3651, and access thereto may be had upon request.

(b) Weather Conditions. Data on weather conditions may be obtained from the National Weather Service.

(c) Transportation Facilities. The construction access will be via Airline Highway to Access Road F. No left hand turns, or U-turns are allowed on Airline Hwy except at signalized intersections or where a queuing bay exists to avoid blocking travel lanes. Access Road F is a shared access road. The Government contractors will be utilizing the access road to complete their portion of the required work. Currently, there is a pile load test being conducted at the end of Access Road F. Construction of the new access road, interior drainage channel, and culvert crossing at the end of Access Road F will not be available to the Contractor until October 1, 2023. Prior to this date, the Contractor may access the site provided their operations stay at least 200-feet clear of the pile load test area. On the access roads, the Contractor shall maintain dust control, grade the road, fill holes, and low areas. Access for tree clearing and canal excavation is typically performed utilizing amphibious marsh excavators and airboats to transport personnel. The Contractor shall transport Government personnel by airboat to inspect the work in progress. Airboat(s) shall also be on standby to transport workers for medical treatment in case of injury or illness.

(d) The Contractor shall keep streets free of mud, tracking, spillage and/or other surface pollution from his/her equipment and operations. The Contractor shall take whatever means required (i.e., street cleaners, manual labor, water trucks with sprayers) as often as

needed to maintain clean streets near the work site. All debris resulting from street cleaning operations shall be hauled off-site and disposed of properly. All vehicles shall utilize the truck wash down racks so that vehicles have clean tires before entering onto Hwy 61. The Contractor shall ensure that trucks are completely clean before entering Highway 61 due to the fact that it is a high-speed highway that will be dangerous to manually clean. If any material is tracked or spilled onto the roadway, the Contractor shall contact the Louisiana State Police to provide the resources to temporary block traffic until the roadway is clean. The Contractor shall be responsible for all costs of cleaning the roadway, including the costs for providing the State Police resources.

(e) Estimates of quantities involved in certain items of work for which bids are being solicited on a job basis have been made for the use of the Government. Copies of these quantity estimates may be viewed/obtained by contacting the Contract Specialist for this contract, same address as stated in subparagraph (a) above. It is expressly understood that the accuracy of these estimates is in no way warranted and that the furnishing of this information to a bidder will not relieve him of his responsibility to estimate the quantities involved.”

SECTION 01100

1. Page 5, subparagraph 3.(h). Delete this subparagraph in its entirety and substitute the following therefore: “(h) Reserved”.
2. Page 14, paragraph 11, subparagraph (a). In the 2nd line, change “Access Road J” to “Access Road F”.
3. Page 31, paragraph 30. Delete this paragraph in its entirety and substitute the following, therefore:

“30. SPECIAL WORK REQUIREMENTS

(1) The Contractor shall perform vibration monitoring while performing work within 500 feet of Interstate 10 (I-10). The Contractor shall monitor for settlement of the I-10 bridges throughout the project. The Contractor shall perform a survey of the existing I-10 bridges prior to the construction and record the elevation of the bridges. Prior to beginning construction of temporary retaining structures that will cut off the existing I-10 canal, the Contractor shall ensure the interior drainage channel is completed and connected to Reserve Relief Canal to maintain drainage patterns. Note that there is an active existing 4” ethylene Shell gas line to be relocated by the Owner before the interior drainage channel work may be performed. The existing I-10 canal shall not be closed off until connection to Reserve Relief Canal is made.

(2) PDA test piles shall be located within 200 ft of I-10 bridges unless the preload construction is underway. PDA test piles shall be located between the I-10 bridges or no more than 50 feet outside the I-10 bridges if preload construction is underway. The PDA

test piles may be used as part of the Contractor's TRS. Settlement and vibration monitoring of the I-10 bridges must be established and approved prior to driving PDA test piles. The test piles shall be driven plumb.

(3) No pile driving equipment shall come in contact with the existing bridges. No pile driving equipment shall encroach between the outside of the concrete barrier rails in the space above the bridge decks. Piles must have at least 3 diameter spacing from the existing 54" oval bridge piles. The Contractor shall orient pile driving equipment so as to not jeopardize public safety on the roadway."

4. Page 34, add the following new paragraphs after paragraph 35:

“36. VIDEO AND PHOTOGRAPHIC DOCUMENTATION

The pre-construction and post-construction conditions of permanent roads, streets, driveways, sidewalks, above-ground utilities, and existing structures including the I-10 bridge structure shall be verified and documented by the use of Contractor-furnished photographs and videos. Videos shall be digital format (DVD) with voice over commentary describing all pertinent or unusual conditions. Videos shall have a stamped date. Photographs shall be 35 mm or digital, color, and 4-inch x 6 inch size minimum, and shall have stamped date. The Contractor shall provide four (4) copies of the DVD and four (4) copies of photos with negatives or CDs containing files to the Contracting Officer for the Contract file. Electronic photos shall be accompanied by a log describing the content of each photo. Four (4) hard copies shall be assembled in a report form with a cover letter attached. In the report, a description of each picture identifying and describing the location and indicating the date of the photograph shall be typed beneath each picture. On the reverse of each photograph, the Contractor shall affix a self-adhesive label on the reverse of each picture that shall identify the location, describe the photographed object and indicate the date of the photograph and name of the person who documents the information. All the information on the label shall be typewritten in black. Additionally, the name shall also be signed. The Contractor shall coordinate so that representatives of the Contracting Officer are present during the pre- and postconstruction documentation. No separate measurement or payment will be made for video and photographic documentation. Payment shall be included in the contract job price for “Mobilization and Demobilization”.

37. MONITORING OF THE I-10 BRIDGE STRUCTURE

The Contractor shall survey and record the elevations and monitor settlement for unacceptable values at the bridge bent caps and pilings. These locations correspond to the eighteen caps/pilings located within the ROW, that support the bridge (EB and WB lanes). The Contractor shall record the elevation of these eighteen points before beginning construction in order to arrive at a baseline reference elevation for the caps and footings and also when construction is within 500' of the bridge in order to monitor any settlement of the bridge. Elevations shall be taken once every ten days. All collected elevation data shall be reported in writing and electronic form to the COR. The Contractor will record the elevations and monitor the settlement for unacceptable values. Unacceptable values shall be settlement of a magnitude

greater than one sixteenth inch (1/16") of any cap/piling. See paragraph SPECIAL WORK REQUIREMENTS."

SUBMITTAL REGISTER

Delete the Submittal Register in its entirety and substitute the attached revised Submittal Register, therefore.

SECTION 01 53 00.02 12

1. Page 4, paragraph 1.6. Add the following new subitems to this paragraph as:

"SD-03 Product Data

Equipment Descriptions; G

Complete descriptions of navigation lights installed on the TRS shall be submitted for approval prior to commencement of work."

2. Page 7, paragraph 3.1.2. Delete this paragraph in its entirety and substitute the following therefore:

"3.1.2 Driving

All sheet piles shall be driven to the depths shown on the Contractor' shop drawings. The workspace under the bridges with low headroom will require driving of the sheet piling or any other elements of the Contractor's TRS design in the sections of short lengths and weld splicing them as driving progresses to the tip elevation. Pilings shall be driven by methods that insure proper interlocking throughout their lengths and prevent damage. Pilings damaged during driving or driven out of interlock shall be removed and replaced. A vibratory hammer for pile driving is not allowed. All piles shall be driven without the aid of a water jet, unless otherwise authorized. Unless specifically indicated otherwise, each run of piling wall shall be driven to grade progressively from the start and pilings in each run shall be driven alternately in increments of depth to the required depth or elevation. On each day of sheet pile driving, the Contractor shall stab only the number of piles that can be driven to grade by the end of the day, and all piling stabbed shall be driven to grade by the end of each working day except that the last two piles may remain tapered up to receive the next days piles. If the piling next to the one being driven tends to follow below final grade, it may be pinned to the next adjacent piling. The Contractor is advised that buried stumps or similar debris may be encountered periodically on the sheet pile wall alinement and appropriate consideration should be given to hard driving conditions should they occur. Piles shall not be driven within 100-feet of concrete less than 7 days old nor within 30- feet of concrete less than 28 days old."

3. Page 8. Add the following new paragraphs after paragraph 3.1.6:

“3.1.7 Warning Signs and Navigation Lights

(1) The Contractor shall install permanent pile supported warning signs as indicated on the contract drawings. The signs should be typical regulatory markers used to aid navigation. Signs shall be located on each side of the floodwall in the middle of the channel. Sign panels shall 2’x4’ and be fabricated in one piece from 0.125inch thick, 5052-H38 or 6061-T6 Aluminum Alloy conforming to the requirements of ASTM B 209. Warning signs shall be reflectorized with florescent orange retro reflective sheeting.

(2) The TRS shall include temporary navigation lights on both sides to protect the TRS and boaters during construction. Specifications for the lights shall meet industry standards and be submitted for review and approval as part of the TRS submittal.”

SECTION 31 24 00.00 12

1. Page 4, paragraph 1.3.1. Delete this paragraph in its entirety and substitute the following therefore:

“1.3.1 Embankment

Unless otherwise specified, compacted fill and required fill and backfill materials of any description specified in this section will be measured for payment by the cubic yard, and quantities will be determined by the average end area method. The basis for the measurement will be cross sections of the area's compacted fill material, taken by an independent licensed surveying firm, after the embankment is complete to the lines and grades shown on the contract drawings and the theoretical design sections. The Contractor shall perform and submit original surveys as specified in Section 01100 – GENERAL PROVISIONS, paragraph SPECIAL SURVEYING REQUIREMENTS. Embankment not constructed to design grade and section, including allowable tolerance as indicated on the Contractor's compliance survey will not be accepted. There will be no measurement or payment for tolerances. Material utilized in the levee footprint or stockpiled material outside the levee footprint, that has been obtained from within the Right of Way limits, including channel excavation, will not be measured for payment.”

2. Page 18, paragraph 3.7. Delete this paragraph in its entirety and substitute the following therefore:

“3.7 GRADE TOLERANCES

All embankments shall be constructed to the design grade and cross section shown on the drawings. For compacted fill, at all points, a tolerance of 3/10 of 1 foot above the prescribed design grade and cross section shown will be permitted in the final dressing provided that the crown of the levee drains, there are no abrupt humps or depressions in surfaces or bulges in

the width of the crown, and the side slopes are uniform. Any partial fill material temporarily placed within the design section shall not exceed the design grade or design slopes of the embankment by more than 1 foot, and shall have side slopes not steeper than 1V on 3H.”

SECTION 31 62 16.00 12

Page 7, paragraph 3.3.4. Starting on the 13th line, change the sentence which reads “The approximate location of the test piles should be shown as shown on the drawings near the T-wall location.” to “The test pile location is specified in Section 01100 - GENERAL PROVISIONS, paragraph SPECIAL WORK REQUIREMENTS.”

SECTION 32 15 00.00 12

Page 2, paragraph 1.1. Delete this paragraph in its entirety and substitute the following therefore:

“1.1 SCOPE

The work covered by this section consists of furnishing all plant, labor, materials, and performing all work necessary to construct and maintain surfacing for access road transition, maintain Access Road F, and the permanent levee access road and ramps.”

DRAWINGS

SHEET IDENTIFICATION Nos: C-200, C-201, C-202, C-204, C-205, C-206, C-211, C-301, C-302, C-303, C-304, C-305 and C-306. Delete these drawings in their entirety and substitute the attached revised drawings SHEET IDENTIFICATION Nos: C-200, C-201, C-202, C-204, C-205, C-206, C-211, C-301, C-302, C-303, C-304, C-305 and C-306.

SECTION 00010 – BIDDING SCHEDULE

West Shore Lake Pontchartrain, Louisiana,
Hurricane and Storm Damage Risk Reduction Project,
Levees and I-10 West T-Wall Crossing, WSLP-106,
St John the Baptist Parish, Louisiana

Item	DESCRIPTION	Estimated Quantity	Unit	Unit Price	Estimated Amount
BASE WORK					
0001	Mobilization and Demobilization	1	JOB		
0002	CSX Pipeline Removal	1	JOB		
0003	Elevated Work Platform	1	JOB		
0004	Floating Plant	1	JOB		
0005	Temporary Retaining Structures	1	JOB		
0006	Flood Events	1	EA		
0007	Traffic Control and Coordination	1	JOB		
0008	Truck Wash-Down Rack	1	JOB		
0009	Reinforced Concrete Floodwall	1	JOB		
0010	Miscellaneous Metalwork	1	JOB		
0011	Geotextile Separator	9,700	SY		
0012	Reinforcement Geotextile 8,000 lb/ft	17,072	SY		
0013	Reinforcement Geotextile 17,000 lb/ft	6,134	SY		
0014	Clearing and Grubbing	1	JOB		
0015	Drainage Channel Excavation	1	JOB		
0016	Surcharge Excavation/Reuse	1	JOB		
0017	Embankment, Compacted Fill	145,000	CY		
0018	Sand Fill		TON		
0018AA	First 48,000 TON	48,000			
0018AB	All Over 48,000 TON	12,000			
0019	Vertical Wick Drain Installation	847,424	LF		
0020	Horizontal Strip Drain Installation	79,591	LF		
0021	Grouted Riprap	474	CY		
0022*	Piling, Steel Sheet, Type PZ-22	14,024	SF		

0023*	Piling, Steel Sheet, Type PZ-22, I-10 Bridges	2,273	SF		
0024*	Piling, Steel Sheet, Type PZ-27	4,796	SF		
0025*	Piling, Steel Sheet, Type PZ-27, I-10 Bridges	2,760	SF		
0026	Steel H-Piling	21,670	LF		
0027	Steel H Pilings, I-10 Bridges	3,036	LF		
0028	PDA Testing	1	JOB		
0029*	Surfacing				
0029AA	First 5,000 TON	5,000	TON		
0029AB	All Over 5,000 TON	3,500	TON		
0030	Chain Link Fencing and Gates	1	JOB		
0031	Seeding and Mulching	16	AC		
0032	Fertilizer				
0032AA	First 6,300 LBS	6,300	LBS		
0032AB	All Over 6,300 LBS	3,150	LBS		
0033++	Lime Soil Amendment	18	TON		
0034++	Sulfur Soil Amendment	2	TON		
0035	Corrugated Metal Pipe Culvert 72" Diameter	520	LF		
0036	Bedding	400	TON		
0037	Riprap	936	TON		
0038	Concrete Scour Protection	160	SY		
TOTAL BASE WORK:					\$
OPTIONAL WORK (OW)					
0039	Clearing and Grubbing - OW	1	JOB		
0040	Drainage Channel Excavation - OW	1	JOB		
TOTAL OPTIONAL WORK					\$
TOTAL BASE WORK + OPTIONAL WORK					\$

++Items not subject to the requirements of FAR 52.211-18 VARIATION IN ESTIMATED QUANTITY.

*Denotes a change from the previous Bidding Schedule.

**The unit "JOB" as used in this Bidding Schedule is synonymous with the term "Lump Sum" used elsewhere within these plans and specifications.

Award will be made as a whole to one bidder.

NOTE 1: Bidders shall furnish unit prices for each item listed in the Schedule requiring a unit price. If the bidder fails to insert a unit price in the appropriate blank for required item(s), but does furnish an extended total, or an estimated amount for such item(s), the Government shall deem the unit price to be the

quotient obtained by dividing the extended amount for that line item by the quantity. IF A BIDDER OMITTS BOTH THE UNIT PRICE AND THE EXTENDED TOTAL OR ESTIMATED AMOUNT FOR ANY ITEM, ITS BID SHALL BE DECLARED NON-RESPONSIVE AND THEREFORE INELIGIBLE FOR AWARD.

NOTE 2: Any bid may be rejected if the Contracting Officer determines in writing that it is unreasonable as to price. Unreasonableness of price includes not only total price of bid, but the price for individual line items as well. Any bid may be rejected if the prices for any line items or sub line items are materially unbalanced (See FAR 14.404-2, Rejection of Individual Bids).

NOTE 3: THE NOTICE TO PROCEED (NTP): The successful bidder is advised that performance and payment bonds shall be submitted in accordance with the time frame in block 12B of SF 1442. The NTP will be issued immediately after verification of acceptable performance and payment bonds. Within seven (7) days after issuance of the NTP, the Contractor shall initiate a meeting to discuss the submittal process with the Area or Resident Engineer or his authorized representative. Physical work cannot start until the Accident Prevention Plan, Contractor Quality Control Plan, and other submittals which may be required, have been submitted and approved and all preliminary meetings called for under the contract, have been conducted.

NOTE 4: RAPID VENDOR PAYMENT: Web based instructions for the submission of invoices;
<http://www.mvn.usace.army.mil/BusinessWithUs/Contracting/RapidVendorPayment.aspx>

NOTE 5: OPTIONAL WORK ITEMS. The Government may require the delivery of the numbered line item(s), identified in the schedule as OPTIONAL WORK Items, in the quantities and prices stated in the schedule. The Contracting Officer may exercise the OPTIONAL WORK Items by written notice to the Contractor. If OPTIONAL WORK is exercised, it will be no later than April 1, 2024. Bidders shall bid on all items including optional items (see "Evaluation of Options" FAR 52.217-5). Failure to bid on all items will result in a non-responsive bid.

NOTE 6: EVALUATION OF OPTIONS (FAR 52.217-5 JUL 1990). Except when it is determined in accordance with FAR 17.206(b) not to be in the Government's best interests, the Government will evaluate offers for award purposes by adding the total price for all options to the total price for this basic requirement. Evaluation of options will not obligate the Government to exercise the option(s).
** If an option is to be exercised at the time of contract award FAR17.208 shall be used in place of FAR 52.217-5.

NOTE 7: TIME ADJUSTMENT IN THE EVENT OF THE EXERCISE OF OPTIONAL WORK. In the event that OPTION WORK items are exercised under

the terms of the contract, the time required for completion of the contract will not be adjusted but shall be performed concurrent with the original contract duration of 1,095 calendar days established for the BASE WORK items specified in the Contract Clause entitled "COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (FAR 52-211-10 – APR 1984)".

EVALUATION OF SUBLINE ITEMS (Dec 2019 - AFARS 5152.211-9000).

Item Nos. 0018, 0029, and 0032 are subdivided into two or more estimated quantities and are to be separately priced. The Government will evaluate each of these items on the basis of total price of its subline items.

(End of Clause)

VARIATIONS IN ESTIMATED QUANTITIES - SUBLINE ITEMS (Dec 2019) - AFARS 5152.211-9001).

This variation in estimated quantities clause is applicable only to item Nos. 0018, 0029, and 0032.

(a) Variation from the estimated quantity in the actual work performed under any second or subsequent subline item or elimination of all work under such a second or subsequent subline item will not be the basis for an adjustment in contract unit price.

(b) Where the actual quantity of work performed for item Nos. 0018, 0029, and 0032 is less than 85% of the quantity of the first subline item listed under such item, the contractor will be paid at the contract unit price for that subline item for the actual quantity of work performed and, in addition, an equitable adjustment shall be made in accordance with the clause at Federal Acquisition Regulation (FAR) 52.211-18, VARIATION IN ESTIMATED QUANTITY.

(c) If the actual quantity of work performed under item Nos. 0018, 0029, and 0032 exceeds 115% or is less than 85% of the total estimated quantity of the subline item under that item and/or if the quantity of the work performed under the second subline item or any subsequent subline item under item Nos. NONE exceeds 115% or is less than 85% of the estimated quantity of any such subline item, and if such variation causes an increase or a decrease in the time required for performance of this contract the contract completion time will be adjusted in accordance with the clause FAR 52.211-18, VARIATION IN ESTIMATED QUANTITY.

(End of Clause)

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CONTRACT NO.

TITLE AND LOCATION
WSLP 106

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH #	GOVT CLASSIFICATION REVIEW	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY				REMARKS		
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE		DATE OF ACTION	MAILED TO CONTR/ DATE RCD FRM APPR AUTH
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		01 32 01.00 12	SD-01 Preconstruction Submittals														
			Project Scheduler Qualifications	1.4	G												
			Preliminary Project Schedule	3.4.1	G												
			Initial Project Schedule	3.4.2	G												
			Periodic Schedule Update	3.6.2	G												
		01 33 00	SD-01 Preconstruction Submittals														
			Submittal Register	1.7	G												
		01 45 04.00 10	SD-01 Preconstruction Submittals														
			Contractor Quality Control Plan	3.2	G CD												
		01 53 00.02 12	SD-02 Shop Drawings														
			Shop Drawings	1.7.1	G EDS												
			SD-03 Product Data														
			Equipment Descriptions		G												
			SD-05 Design Data														
			Design Calculations	1.7													
			Design Calculations	1.7.3.4													
		01 55 26.00 12	SD-01 Preconstruction Submittals														
			Traffic Control Plan	3.2	G												
		01 57 20.00 12	SD-01 Preconstruction Submittals														
			Environmental Protection Plan	1.6.1	G												
		01 78 02.00 10	SD-02 Shop Drawings														
			'As-Built' Drawings	1.3.1	G DO												
		03 11 14.00 12	SD-02 Shop Drawings														
			Shop Drawings	1.7													
			SD-03 Product Data														
			Materials	2.1													

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																		(a)
		03 11 14.00 12	SD-05 Design Data															
			Formwork Not Supporting Weight of Concrete	3.2.1	G DO													
			SD-06 Test Reports															
			Quality Control	1.8														
			Form Removal	3.2	G													
			Maturity Method	3.2														
			SD-08 Manufacturer's Instructions															
			Energy Release Plan	3.2	G													
		03 15 13.00 12	SD-02 Shop Drawings															
			Waterstops	2.2	G EDS													
			SD-03 Product Data															
			Preformed Expansion Joint Filler Sealant	2.1.1														
			Waterstops	3.1.2														
			Waterstops	2.2														
			SD-04 Samples															
			Non-metallic Material	2.3.2.2														
			SD-07 Certificates															
			Preformed Expansion Joint Filler Sealant	2.1.1														
			Waterstops	3.1.2														
			Waterstops	2.2														
		03 21 00.00 12	SD-02 Shop Drawings															
			Fabrication and Placement	3.1	G													
			SD-03 Product Data															
			Mechanical Butt-Splices	3.1.3	G													
			Materials	2.1														

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		03 21 00.00 12	SD-06 Test Reports														
			Material	1.5.1													
			Tests, Inspections, and Verifications	1.5.2													
		03 31 00.00 12	SD-03 Product Data														
			Concrete Mixture Proportions	2.2	G EDS												
			Concrete Batch Ticket	3.7.2.5	G EDS												
			Aggregate	1.6.1	G EDS												
			Batch Plant	3.1.2													
			Concrete Mixers	3.1.3													
			Conveying Equipment and Methods	3.1.4													
			Placing Equipment and Methods	3.3													
			Nonshrink Grout	2.1.6	G EDS												
			Surface Retarder	3.2.4.2													
			Packaged Dry Repair Material	3.4.3.3													
			SD-05 Design Data														
			Construction Joint Treatment	3.2.4	G												
			Curing and Protection	3.5	G EDS												
			Cold-Weather Placing	3.3.4	G EDS												
			Hot-Weather Placing	3.3.5	G EDS												
			Thermal Analysis And Thermal Control Plan	3.3.7	G												
			SD-06 Test Reports														
			Testing and Inspection for Contractor Quality Control	3.7.2	G												

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		03 31 00.00 12	Aggregate	1.6.1	G												
			Uniformity of Concrete Mixing Tests and Inspections	3.7.2.13													
			Temperature Monitoring	3.7													
			Packaged Dry Repair Materials	3.3.7.1													
			SD-07 Certificates	2.1.8													
			Qualifications testing technicians	3.7.1													
			Concrete Construction Special Inspector	3.7.1													
			Cementitious Materials	2.1.1	G												
			Impervious-Sheet Curing Materials	2.1.4.1													
			Air-Entraining Admixture	2.1.3.1													
			Other Chemical Admixtures	2.1.3.4													
			Membrane-Forming Curing Compound	2.1.4.2													
			Latex Bonding Compound	2.1.7													
		05 05 20	SD-01 Preconstruction Submittals														
			Installer Qualifications	1.6.1.1	G												
			Post-Installed Anchor Special Inspector Qualifications	1.6.1.2	G												
			SD-03 Product Data														
			Mechanical Anchors in Concrete	2.1.1.3	G												
			Adhesive Anchor System in Concrete	2.1.1.4	G												

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE		DATE OF ACTION	MAILED TO CONTR/ DATE RCD FRM APPR AUTH
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		05 05 20	Mechanical and Adhesive Anchors in Masonry	2.1.1.5	G												
			Non-Shrink, Non-Metallic Grout	3.1.3	G												
			SD-06 Test Reports														
			Post-Installed Anchor Special Inspections Report	3.3.4	G												
			SD-07 Certificates														
			Post-Installed Anchor Certification	2.1.1.1	G												
			SD-08 Manufacturer's Instructions														
			Manufacturer's Printed Installation Instructions	2.1.1.2	G												
			Non-Shrink, Non-Metallic Grout	3.1.3	G												
			Manufacturer's Material Safety Data Sheets														
		05 50 03.00 12	SD-02 Shop Drawings														
			Shop Drawings	3.1.1	G												
			Shop Drawings	3.6.1	G												
			Shop Drawings	3.6.2.2	G												
			Welding Procedure Specifications (WPS)	3.2.4	G												
			Welder, Welding Operator and Tacker Qualification Certification	3.2.5	G												
			Procedure Qualification Report (PQR)	3.2.4	G												

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						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH	
																		(g)
		05 50 03.00 12	Inspector Qualification Certification	3.3.1	G													
			Nondestructive Testing Procedure	3.3	G													
			SD-03 Product Data															
			Materials	1.5.1														
			Materials	2.1														
			SD-06 Test Reports															
			Bolts, Nuts, and Washers	2.1.1														
			Bolts, Nuts, and Washers	2.1.1.1														
			Bolts, Nuts, and Washers	2.1.2														
			Weld Inspection Reports	3.2.8														
			SD-07 Certificates															
			Certificates	3.2.5	G													
		05 50 04.02 12	SD-02 Shop Drawings															
			Shop Drawings	2.1.1	G													
			SD-03 Product Data															
			Grating	2.3	G													
			SD-07 Certificates															
			Manufacturer's Certification		G													
		05 59 20	SD-01 Preconstruction Submittals															
			Welding Procedure Specifications (WPS)	1.3.3	G DO													
			Weld Tracking Log Template	1.3.1	G DO													
			Weld Tracking Log	1.3.2	G DO													
			Weld Tracking Log	1.5.6	G DO													

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
WSLP 106

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION REVIEW	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY					REMARKS	
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		05 59 20	Performance Qualification Records	2.1.4.2	G DO												
			Nondestructive Testing Procedure	2.2.2	G DO												
			SD-02 Shop Drawings														
			Shop Drawings	1.5.4	G DO												
			Assembly	2.1.2	G DO												
			Delivery/Shipping Plan	1.6	G DO												
			Erection Drawings	1.5.5	G DO												
			SD-03 Product Data														
			Materials Disposition Record	2.1.3													
			SD-06 Test Reports														
			Certified Test Reports	2.2	G DO												
			Weld Tracking Log	1.3.2	G DO												
			Weld Tracking Log	1.5.6	G DO												
			Witness Points	1.5													
			Repair of Mislocated or Misdrilled Holes	2.1.5.2	G DO												
			Schedule of Random Testing	2.1.4.6.3	G DO												
			Manufacturer Certified Test Reports	2.1.5.3.2	G												
			Distributor Certified Test Reports	2.1.5.3.2	G												
			SD-07 Certificates														
			Work Plan	1.3	G DO												
			Qualification of Welders and Welding Operators	1.5.1	G DO												

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
WSLP 106

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION REVIEW	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY					REMARKS	
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		05 59 20	Inspector Qualifications	1.5.2	G DO												
			NDT Inspector Certification	2.2.2.1	G DO												
			SD-09 Manufacturer's Field Reports														
			Control Dimensions	2.2.3	G DO												
		09 97 02.03 12	SD-03 Product Data														
			Safety and Health Provisions	1.6	G												
			Confined Spaces	1.6.5.1	G												
			Respirators	1.6.6.2	G												
			Ventilation	1.6.5.1	G												
			Medical Status	1.7	G												
			PM-10 Monitoring	1.9.2.1	G												
			SD-04 Samples														
			Special Paint Formulas	2.1	G												
			Paint Formulations	2.2	G												
			Solvent and Thinners		G												
			SD-06 Test Reports														
			PM-10 Monitoring	1.9.2.1	G												
			Certified Laboratory	1.6.6.1	G												
			Inspection	3.5	G												
			SD-07 Certificates														
			Qualifications	1.4	G												
			Coating Thickness Gage Qualification	1.4.2	G												
		31 05 19.03 12	SD-01 Preconstruction Submittals														
			Work Plan	1.5.1	G												

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
WSP 106

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT OR CLASSIFICATION REVIEW	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY					REMARKS	
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH
		31 05 19.03 12	SD-04 Samples														
			Geotextile	1.3.1													
			Geotextile	2.1													
			SD-07 Certificates														
			Geotextile	1.3.1	G												
			Geotextile	2.1	G												
		31 05 19.05 12	SD-01 Preconstruction Submittals														
			Work Plan	1.3.1	G												
			SD-04 Samples														
			Reinforcement Geotextile	2.1	G												
			SD-06 Test Reports														
			Reinforcement Geotextile	2.1													
			SD-07 Certificates														
			Reinforcement Geotextile	2.1													
		31 23 00.00 12	SD-01 Preconstruction Submittals														
			Survey Report		G												
		31 26 00.00 12	SD-01 Preconstruction Submittals														
			Sequence and Method of Installation	3.1	G												
			SD-03 Product Data														
			Vertical Wick Drains	2.1.1	G												
			Vertical Wick Drains	3.1	G												
			Horizontal Strip Drains	2.1.2	G												
			SD-04 Samples														
			Quality Assurance Samples and Tests	1.4.1	G												

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
WSP 106

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT CLASSIFICATION REVIEW	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY				REMARKS		
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE		DATE OF ACTION	MAILED TO CONTR/ DATE RCD FRM APPR AUTH
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		31 26 00.00 12	SD-07 Certificates														
			Vertical Wick Drains	2.1.1	G												
			Vertical Wick Drains	3.1	G												
			Horizontal Strip Drains	2.1.2	G												
			Completion and Performance	1.7	G												
			Wick Survey	1.4.1	G												
		31 37 00.01 12	SD-03 Product Data														
			Cementitious Materials	2.4	G												
			Aggregate	2.3.2.3	G												
			Grout Mixture Proportioning	2.2.1	G												
			Grout Mixture Proportioning	2.4	G												
		31 41 16.00 12	SD-02 Shop Drawings														
			Shop Drawings	2.1.3	G												
			Substitute Sheet Piling	2.1.3	G												
			Submittals														
			Pile Installation Plan Under I-10		G												
			SD-03 Product Data														
			Equipment Descriptions	1.8.1	G												
			SD-05 Design Data														
			Substitute Sheet Piling	2.1.3	G												
			Submittals														
			SD-06 Test Reports														
			Driving Records	1.8.1													
			SD-07 Certificates														
			Materials Test Certificates	1.9													
		31 62 16.00 12	SD-01 Preconstruction Submittals														

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
WSLP 106

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH #	GOVT CLASSIFICATION REVIEW	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY				REMARKS		
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE		DATE OF ACTION	MAILED TO CONTR/ DATE RCD FRM APPR AUTH
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
		31 62 16.00 12	Equipment Description	1.6	G ED												
			SD-02 Shop Drawings														
			Shop Drawings	2.1	G ED												
			Pile Installation Under I-10		G												
			Pile Installation Under I-10 Plan														
			SD-06 Test Reports														
			Driving Records	1.5.1													
			Dynamic Testing Of Piles	3.3.4	G												
			SD-07 Certificates														
			Material Tests	1.6													
		32 15 00.00 12	SD-06 Test Reports														
			Sampling and Testing	1.6.2	G												
		32 31 13	SD-02 Shop Drawings														
			Erection/Installation Drawings	1.5													
			Erection/Installation Drawings	3.2													
			Fence Assembly	1.5													
			Location of Gate, Corner, End, and Pull Posts	3.2													
			Gate Assembly	1.5													
			Gate Hardware and Accessories	2.5.3													
			SD-03 Product Data														
			Fence Assembly	1.5													
			Gate Assembly	1.5													
			Gate Hardware and Accessories	2.5.3													
			Wire Ties	2.3.1	G												
			SD-07 Certificates														

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION
WSLP 106

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH	GOVT OR CLASSIFICATION REVIEW	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY					REMARKS	
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH
		32 31 13	Zinc Coating	1.7													
			Fabric	2.1													
			Stretcher Bars	2.2.2													
			Gate Hardware and Accessories	2.5.3													
			Concrete	2.4													
			SD-08 Manufacturer's Instructions														
			Fence Assembly	1.5													
			Gate Assembly	1.5													
			Hardware Assembly	1.5													
			Accessories	1.5													
		32 92 19.23 12	SD-01 Preconstruction Submittals														
			Herbicide Application Plan		G												
			SD-07 Certificates														
			Seed	2.1.3													
			Turf Establishment Plan		G												
		33 40 01.00 12	SD-07 Certificates														
			Test results	1.4.2													
			Test data	1.4.2													
			Specified sheet thickness	3.2.1													
			Specified coating thickness	3.2.1													
			Hydrostatic Tests	1.4.2													
		35 43 38.00 12	SD-01 Preconstruction Submittals														
			Concrete Mixture Proportions	1.6.3	G												
			Conveying	3.6													
			Placing Concrete	3.7	G												
			SD-03 Product Data														

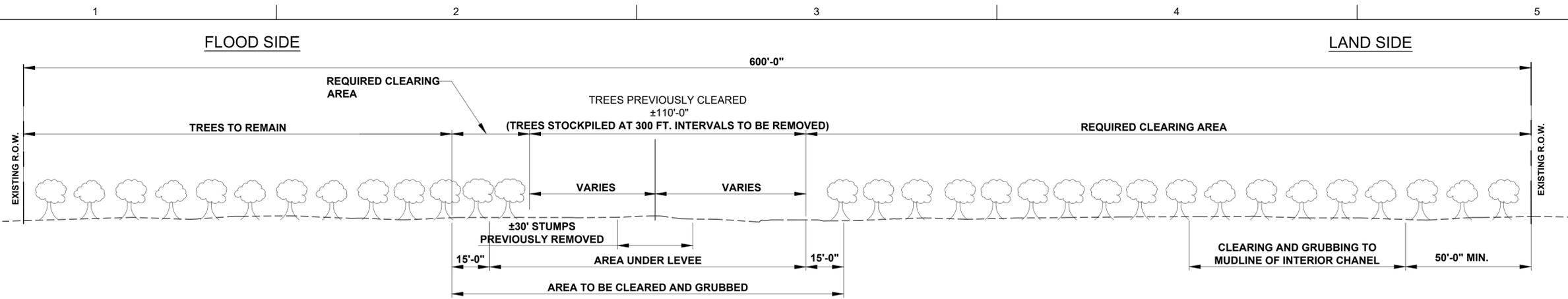
SUBMITTAL REGISTER

CONTRACT NO.

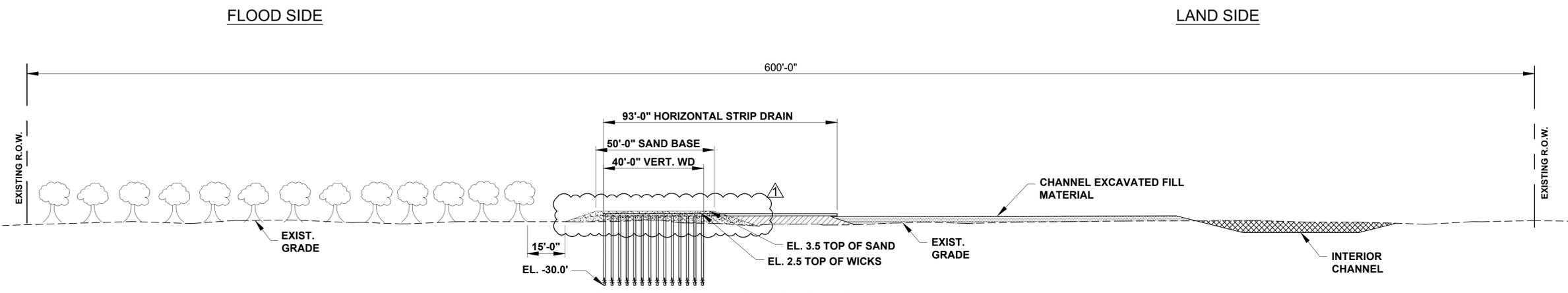
TITLE AND LOCATION
WSLP 106

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION ITEM SUBMITTED	PARAGRAPH #	GOVT CLASSIFICATION REVIEW	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY					REMARKS		
						SUBMIT	APPROVAL NEEDED BY	MATERIAL NEEDED BY	ACTION CODE	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	ACTION CODE	DATE OF ACTION		MAILED TO CONTR/ DATE RCD FRM APPR AUTH	
																		(a)
		35 43 38.00 12	Expansion Joint Filler	2.6														
			Joint Sealer	1.6														
			Curing Materials	2.9														
			Batching and Mixing Equipment	1.5.1														
			SD-07 Certificates															
			Cementitious Materials	2.1														
			Aggregates	2.2	G													
			Air-Entraining Admixture	2.3.1														
			Water Reducing or Retarding Admixture	2.3.2														
			Chemical Admixtures	2.3														
			Reinforcing Steel	2.5														

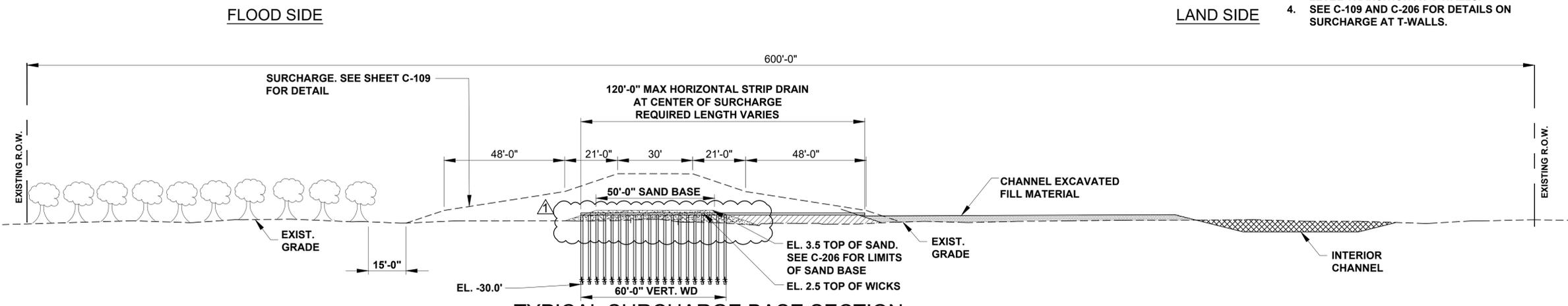


EXISTING CONDITIONS AND CLEARING AND GRUBBING LIMITS

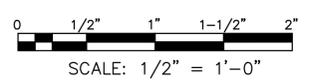


TYPICAL LEVEE BASE SECTION
(STA. 100+30.00 - 131+28.45 AND 138+27.30 - 145+70.00)

- NOTE:**
1. SEE C-201 THRU C-203 FOR DIMENSIONS OF LEVEE AND INTERIOR CHANNEL.
 2. PLACE INSTRUMENTATION AS SHOWN ON C-210 ACCORDING TO THIRD PARTY INSTRUMENTATION CONTRACTOR.
 3. SEE S-107 AND S-108 FOR DETAILS OF LEVEE TRANSITION AT T-WALLS.
 4. SEE C-109 AND C-206 FOR DETAILS ON SURCHARGE AT T-WALLS.



TYPICAL SURCHARGE BASE SECTION
(STA. 131+28.45 - 132+78.45 AND 136+77.30 - 138+27.30)



DATE	DESCRIPTION	APPR.	MARK
6/6/2023 <td>REVISE SAND BELOW EXISTING GRADE <td></td> <td></td> </td>	REVISE SAND BELOW EXISTING GRADE <td></td> <td></td>		

DESIGNED BY: DENISE ROSSIGNOLS, INC.	DATE: 4-11-2023
EX. BY: M.L.M.	FILE NO.:H-4-48306
SUBMITTED BY: KAZEM ALIKHANI	CONTRACT NO.:W9129R-
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	ECM CONSULTANTS, INC. 1301 CLEARVIEW PKWY, SUITE 200 METAIRIE, LA 70001

WEST SHORE LAKE PONTCHARTRAIN, LOUISIANA
HURRICANE AND STORM DAMAGE RISK REDUCTION
PROJECT ST. JOHN THE BAPTIST PARISH, LOUISIANA
LEVEES AND I-10 WEST T-WALL CROSSING
WSP-106

SHEET IDENTIFICATION
C-200

TYPICAL SECTION

1

2

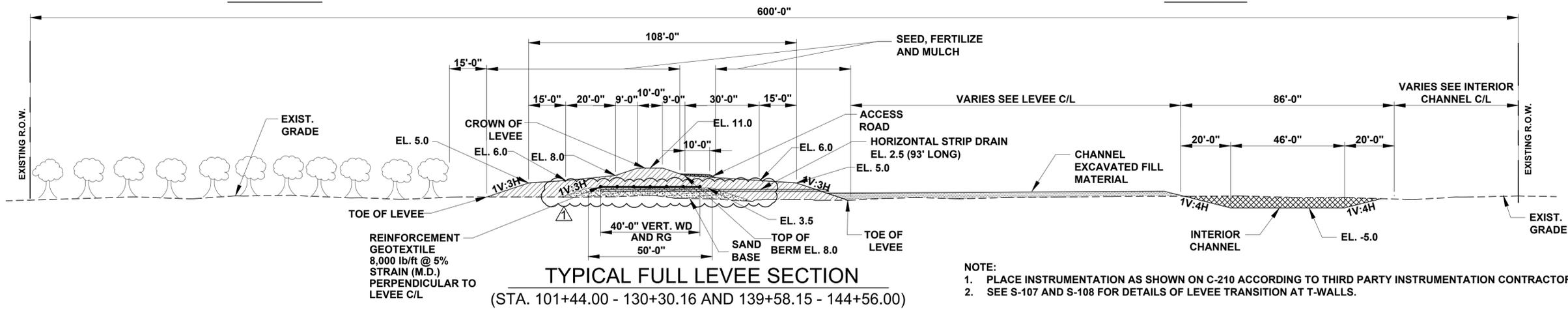
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4

5

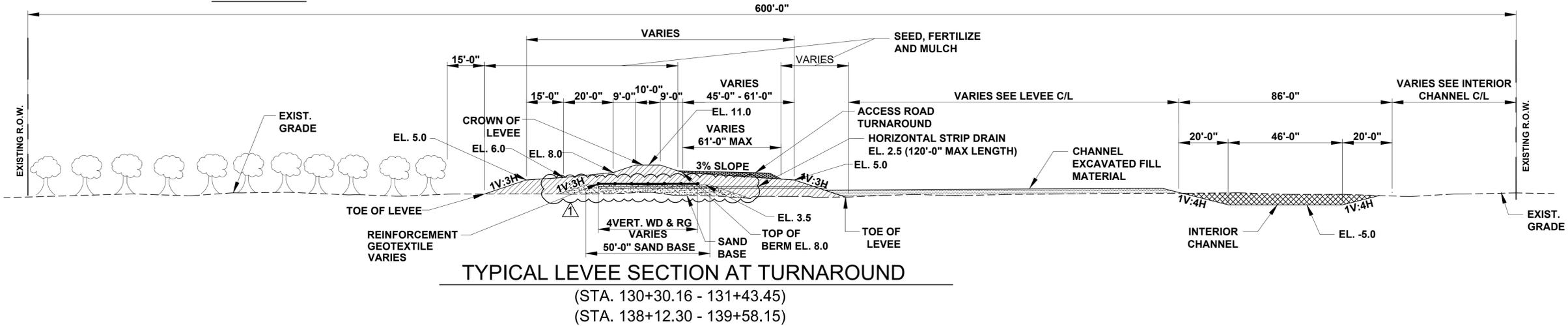
FLOOD SIDE

LAND SIDE



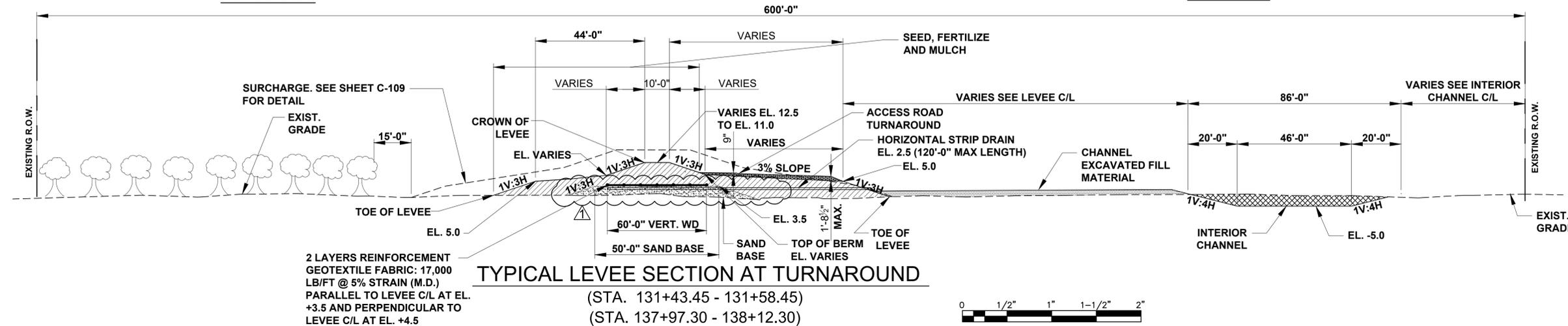
FLOOD SIDE

LAND SIDE



FLOOD SIDE

LAND SIDE



US Army Corps
of Engineers
NEW ORLEANS
DISTRICT

DATE	DESCRIPTION	APPR.
6/6/2023 <td>REVISE SAND BELOW EXISTING GRADE <td>MARK</td> </td>	REVISE SAND BELOW EXISTING GRADE <td>MARK</td>	MARK

DESIGNED BY: M.M.M.	CHECKED BY: S.S.	DATE: 4-11-2023
FORWARDED BY: KAZEM ALIKHANI	CONTRACT NO.:	FILE NUMBER: H-4-48306
PROJECT NO.:	FILE NAME:	ANSI D

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

ECM CONSULTANTS, INC.
1301 CLEARVIEW PKWY, SUITE 200
METAIRIE, LA 70001

WEST SHORE LAKE PONTCHARTRAIN, LOUISIANA
HURRICANE AND STORM DAMAGE RISK REDUCTION
PROJECT ST. JOHN THE BAPTIST PARISH, LOUISIANA
LEVEES AND I-10 WEST T-WALL CROSSING
WSLP-106

TYPICAL SECTION

SHEET
IDENTIFICATION
C-201

1

2

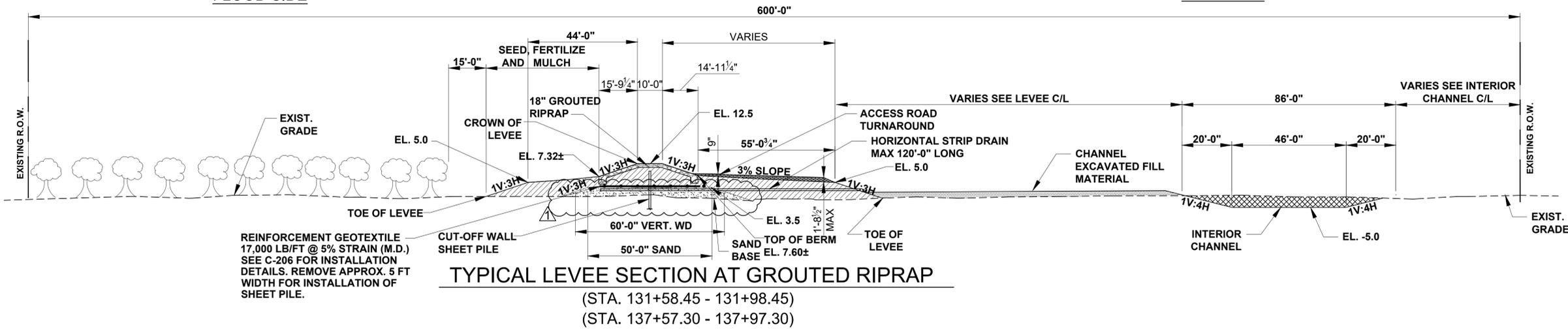
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4

5

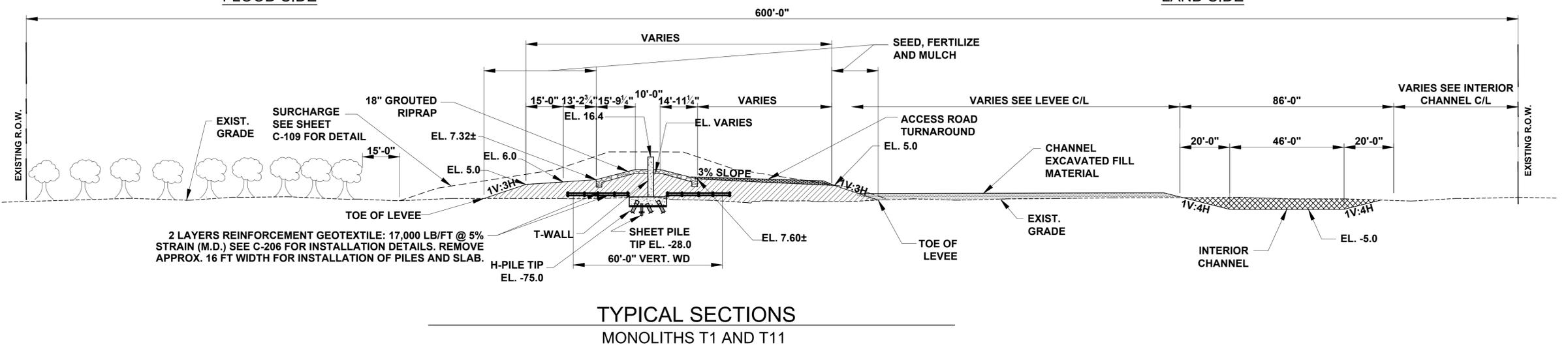
FLOOD SIDE

LAND SIDE



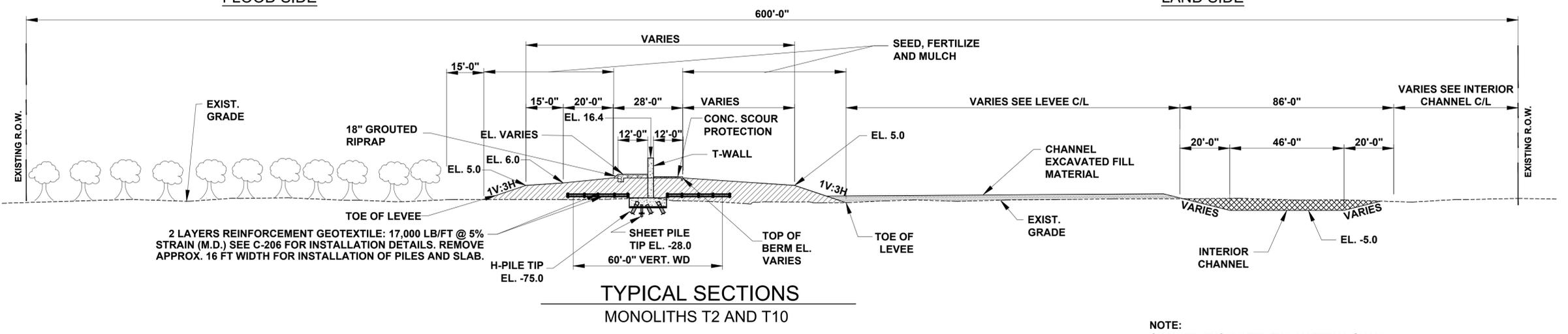
FLOOD SIDE

LAND SIDE

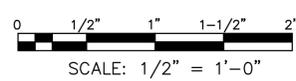


FLOOD SIDE

LAND SIDE



NOTE:
 CHANNEL EXCAVATED FILL MATERIAL SHALL NOT BE PLACED NEAR THE I-10 BRIDGES BETWEEN LEVEE C/L STA. 132+78 AND LEVEE C/L STA. 136+77.



DATE	DESCRIPTION	MARK
6/6/2023	REVISE SAND BELOW EXISTING GRADE	Δ

DESIGNED BY: DENYSON R. HANTS, INC.	DATE: 11/14/2023
FOR BY: M.L.M.	SUBMITTED BY: KAZEM ALIKHANI
FILE NO.: W91298	FILE NUMBER: H-4-48306
ANSI D	ANSI D

U.S. ARMY CORPS OF ENGINEERS
 NEW ORLEANS DISTRICT
 NEW ORLEANS, LOUISIANA

ECM CONSULTANTS, INC.
 1301 CLEARVIEW PKWY, SUITE 200
 METAIRIE, LA 70001

WEST SHORE LAKE PONTCHARTRAIN, LOUISIANA
 HURRICANE AND STORM DAMAGE RISK REDUCTION
 PROJECT ST. JOHN THE BAPTIST PARISH, LOUISIANA
 LEVEES AND I-10 WEST T-WALL CROSSING
 WSLP-106

SHEET IDENTIFICATION
C-202

1

2

3

4

5

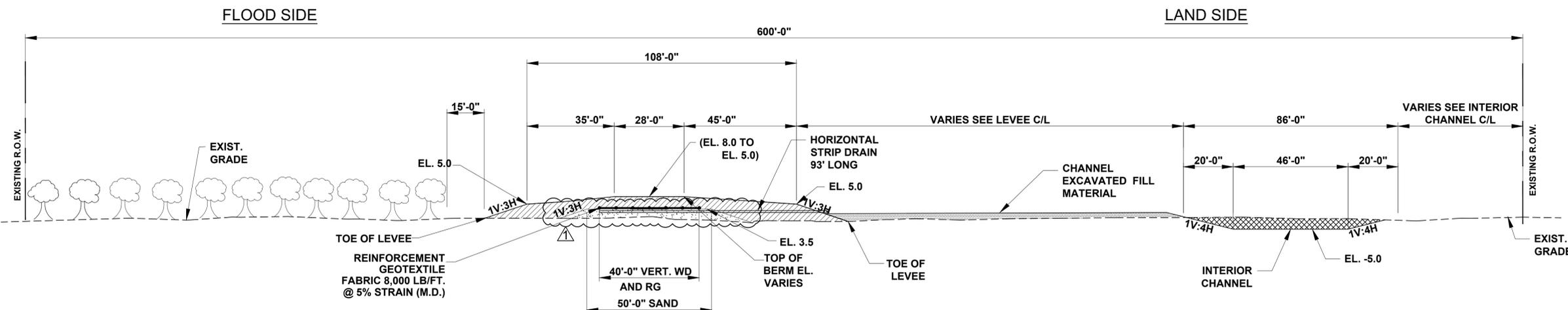
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2

3

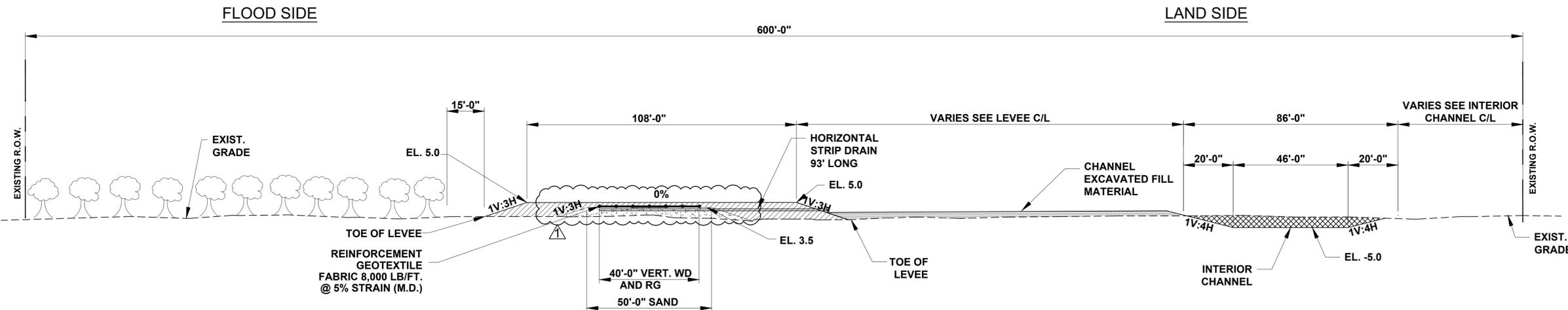
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5



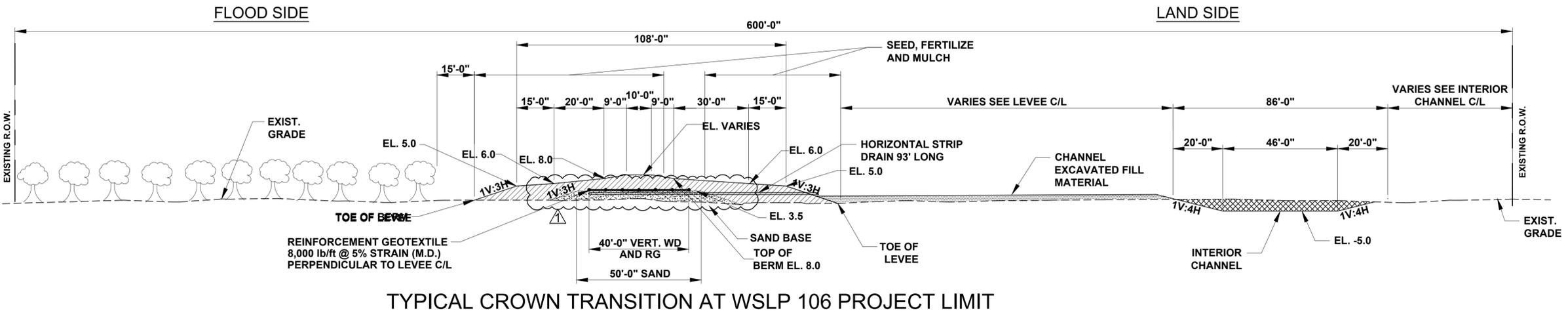
TYPICAL BERM TRANSITION AT WSLP-106 PROJECT LIMIT

(STA. 100+75.00 -101+35.00
STA. 144+65.00-145+25.00)



TYPICAL TRANSITION PAD AT WSLP-106 PROJECT LIMIT

(STA. 100+30.00 -100+75.00
STA. 145+25.00-145+70.00)



TYPICAL CROWN TRANSITION AT WSLP 106 PROJECT LIMIT

(STA. 101+35.00 - 101+44.00, STA. 144+56.00-144+65.00)



DATE	DESCRIPTION	MARK
6/6/2023	REVISE SAND BELOW EXISTING GRADE	Δ

DESIGNED BY: DENSON CONSULTANTS, INC.	DATE: 4-11-2023
DRAWN BY: M.M.	FILE NUMBER: H-4-48306
CHECKED BY: S.S.	ANSI D
CONTRACT NO.: W912P9-23-0000	
PROJECT NO.: W912P9-23-0000	

U.S. ARMY CORPS OF ENGINEERS
NEW ORLEANS DISTRICT
NEW ORLEANS, LOUISIANA

ECM CONSULTANTS, INC.
1301 CLEARVIEW PKWY, SUITE 200
METAIRIE, LA 70001

WEST SHORE LAKE PONCHARTRAIN, LOUISIANA
HURRICANE AND STORM DAMAGE RISK REDUCTION
PROJECT ST. JOHN THE BAPTIST PARISH, LOUISIANA
LEVEES AND I-10 WEST T-WALL CROSSING
WSLP-106

SHEET IDENTIFICATION
C-204

TYPICAL SECTION

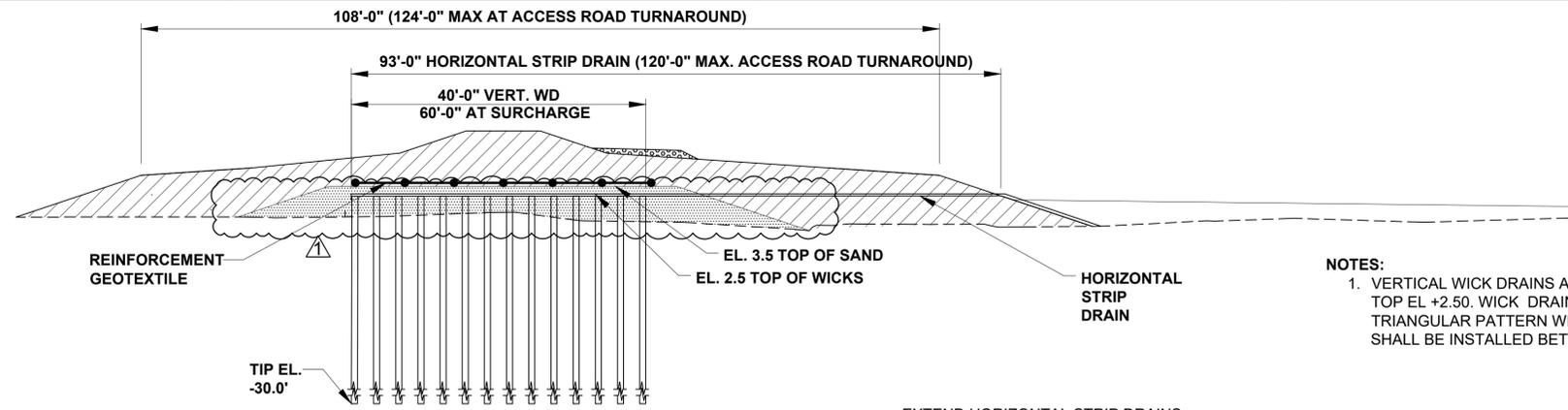
1

2

3

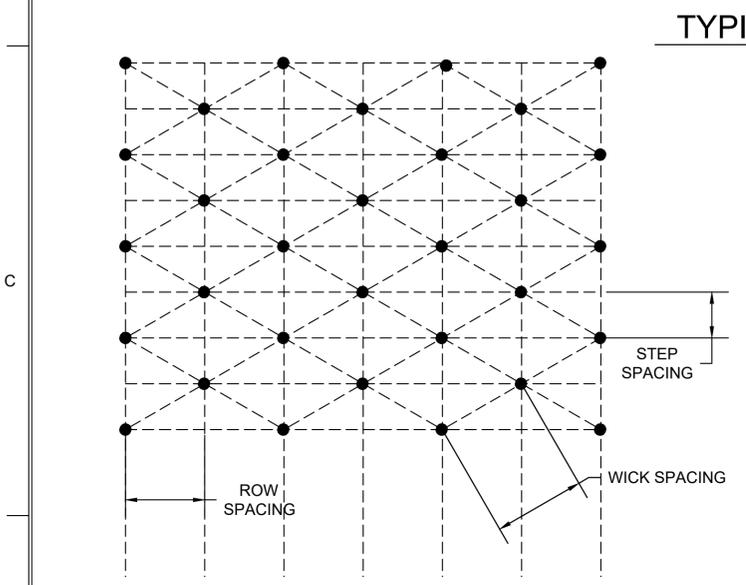
4

5



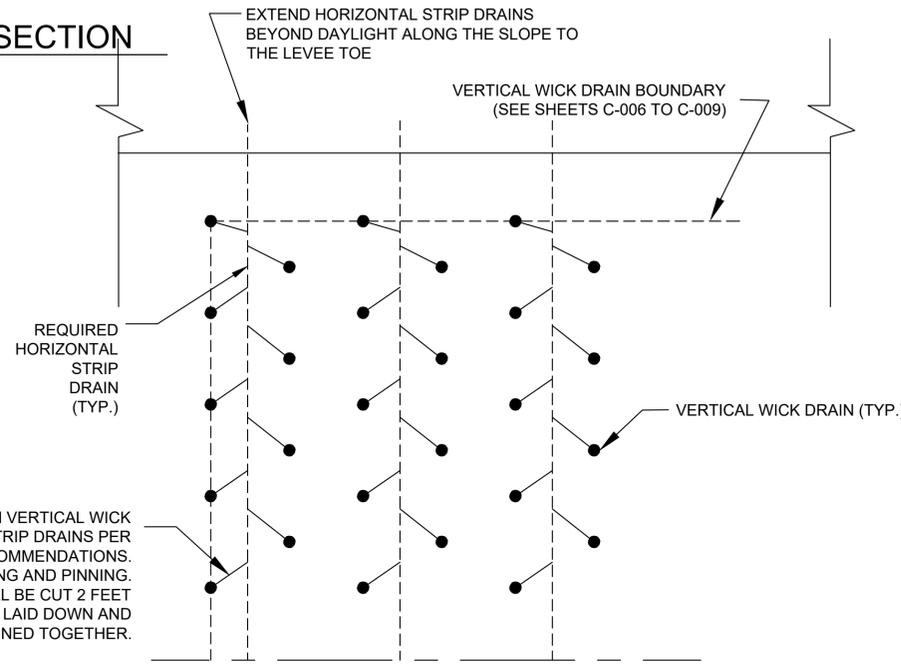
NOTES:
 1. VERTICAL WICK DRAINS AND HORIZONTAL STRIP DRAINS ARE TO BE INSTALLED TO TOP EL +2.50. WICK DRAIN AREA SHALL CONTAIN VERTICAL WICKS IN A TRIANGULAR PATTERN WITH A 3 FOOT DRAIN SPACING. HORIZONTAL STRIP DRAINS SHALL BE INSTALLED BETWEEN THE ROWS OF VERTICAL WICK DRAINS.

TYPICAL FULL LEVEE SECTION
 N.T.S



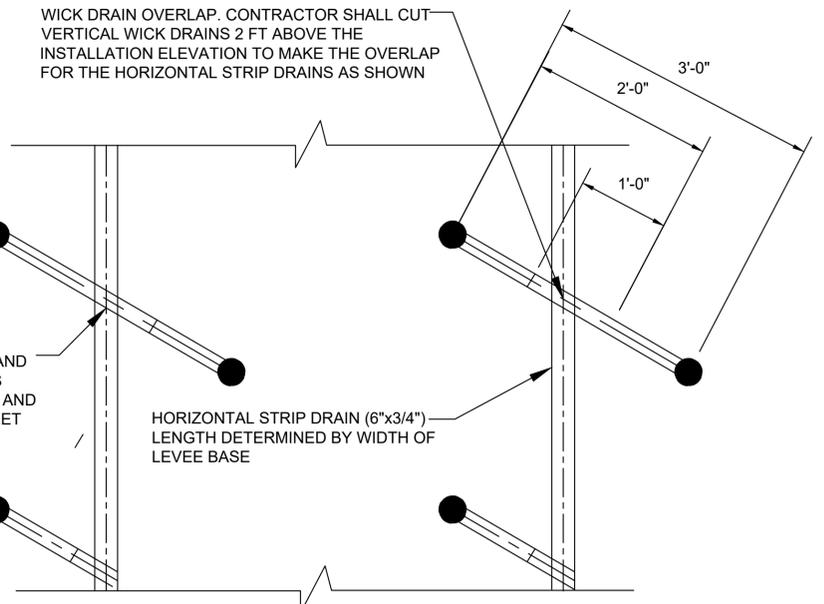
WICK SPACING (FT)	ROW SPACING (FT)	STEP SPACING (FT)
3'	2.60'	1.5'

VERTICAL WICK DRAIN SPACING DETAILS
 N.T.S



CONNECTIONS BETWEEN VERTICAL WICK DRAINS AND HORIZONTAL STRIP DRAINS PER MANUFACTURER'S RECOMMENDATIONS. OPTIONS INCLUDE STAPLING AND PINNING. VERTICAL WICK DRAINS WILL BE CUT 2 FEET ABOVE STRIP DRAIN AND THEN LAID DOWN AND STAPLED OR PINNED TOGETHER.

HORIZONTAL STRIP DRAIN SPACING DETAILS
 N.T.S



CONNECTIONS BETWEEN VERTICAL WICK DRAINS AND HORIZONTAL STRIP DRAINS PER MANUFACTURER'S RECOMMENDATIONS. OPTIONS INCLUDE STAPLING AND PINNING. VERTICAL WICK DRAINS WILL BE CUT 2 FEET ABOVE STRIP DRAIN AND THEN LAID DOWN AND STAPLED OR PINNED TOGETHER.

VERTICAL WICK DRAIN (3.8"x0.115")
 INSTALLED TO TIP AT EL. -30.0

HORIZONTAL STRIP DRAIN AND WICK DRAIN OVERLAP DETAILS (PLAN VIEW)
 N.T.S



DATE	DESCRIPTION	MARK	DATE	DESCRIPTION	MARK
8/1/2023	REVISE SAND AND WICK TIP EL. IN NOTE	Δ			

DESIGNED BY: DEBORA S. HARRIS, INC.	DATE: 4/11/2023
FOR BY: M.M.	PROJECT NO.: W019A23000
SUBMITTED BY: KAZEM ALKHANI	CONTRACT NO.: W91298
PLOT SCALE: 1/4"=1'-0"	FILE NUMBER: H-4-48306
SIZE: A	FILE NAME:
ANSI D	

WEST SHORE LAKE PONTCHARTRAIN, LOUISIANA
 HURRICANE AND STORM DAMAGE RISK REDUCTION
 PROJECT ST. JOHN THE BAPTIST PARISH, LOUISIANA
 LEVEES AND I-10 WEST T-WALL CROSSING
 WSLP-106
WICK DRAIN DETAILS

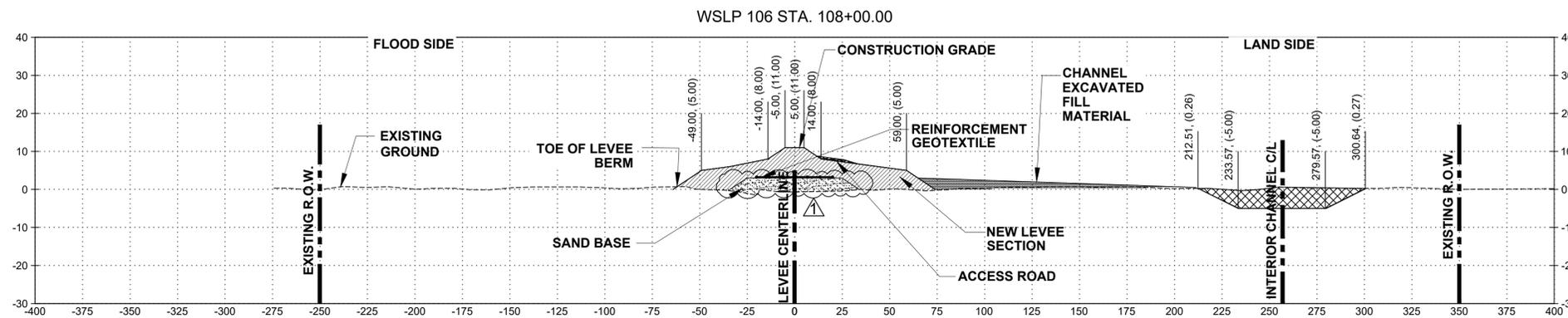
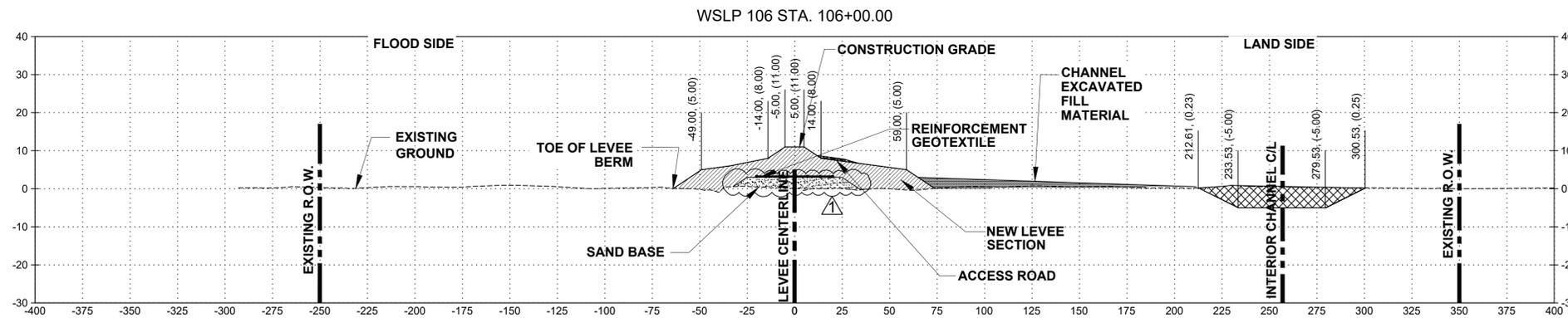
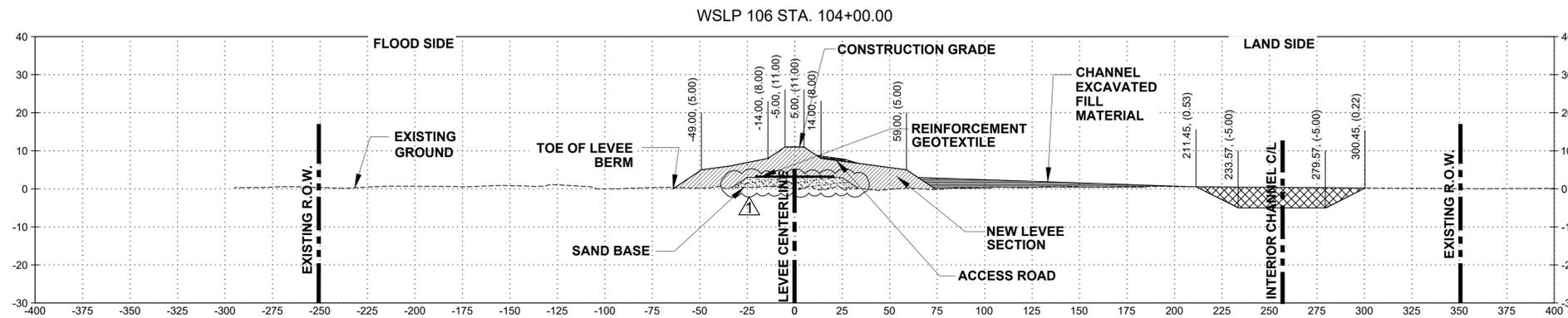
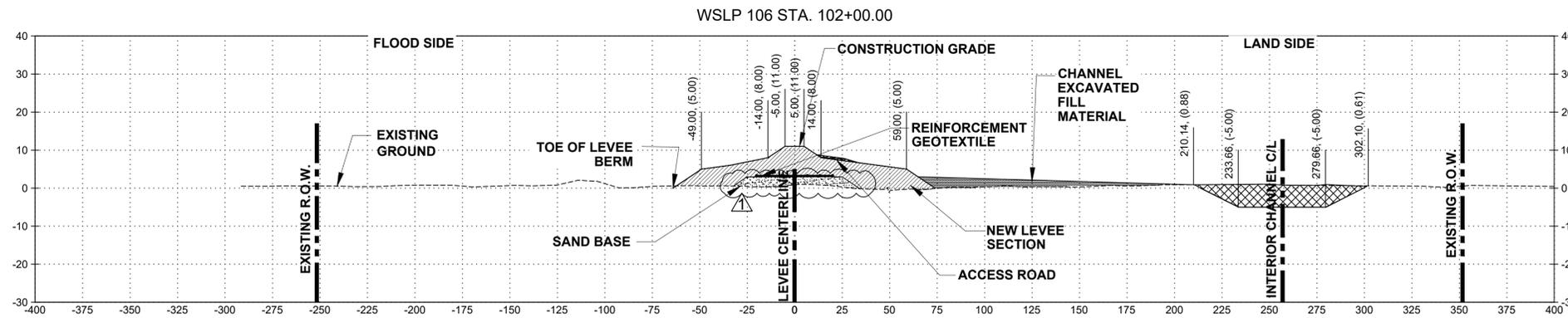
SHEET IDENTIFICATION
C-211

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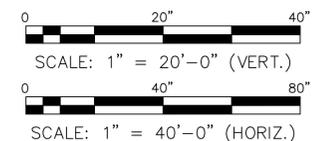
C

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NOTE:
SEE SHEETS C-201 THROUGH C-203 FOR SEED, FERTILIZATION & MULCHING LIMITS.



DATE	DESCRIPTION	APPR.
6/6/2023	REVISE SAND BELOW EXISTING GRADE	K.K.

DESIGNED BY: ECM CONSULTANTS, INC.	DATE: APRIL 2023
DESIGNED BY: M.M.M.	SUBMITTED BY: KAZEM ALKHANI
DESIGNED BY: S.S.	FILE NUMBER: H-4-48306
DESIGNED BY: S.S.	FILE NAME:

WEST SHORE LAKE PONTCHARTRAIN, LOUISIANA
HURRICANE AND STORM DAMAGE RISK REDUCTION
PROJECT ST. JOHN THE BAPTIST PARISH, LOUISIANA
LEVEES AND I-10 WEST T-WALL CROSSING
WSLP-106

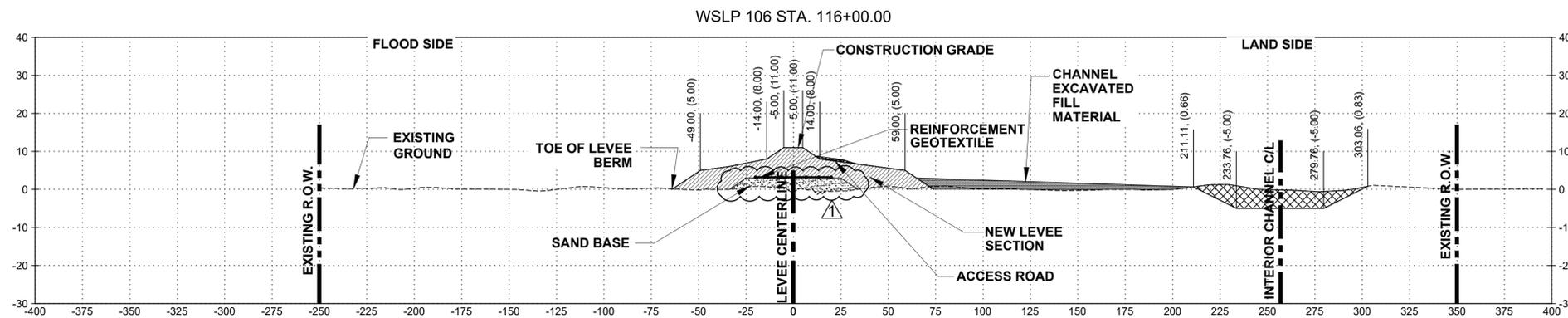
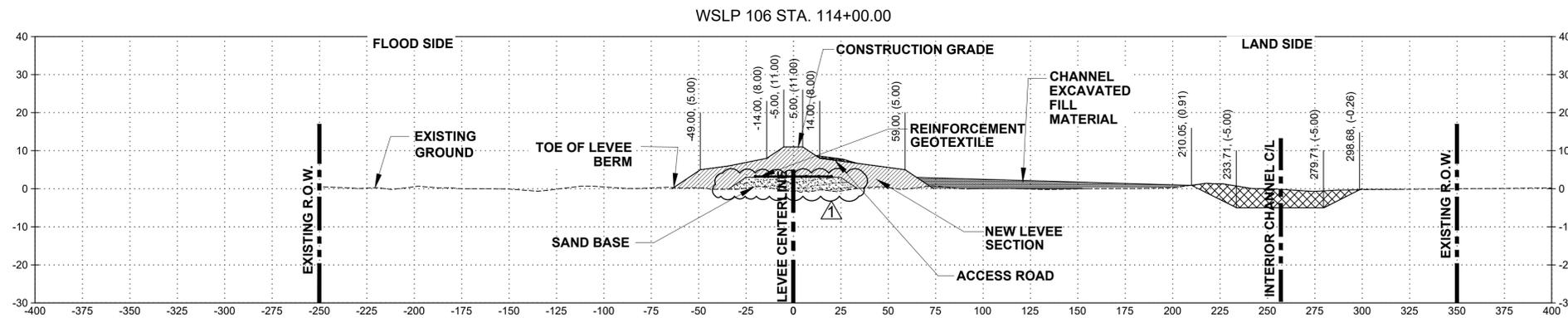
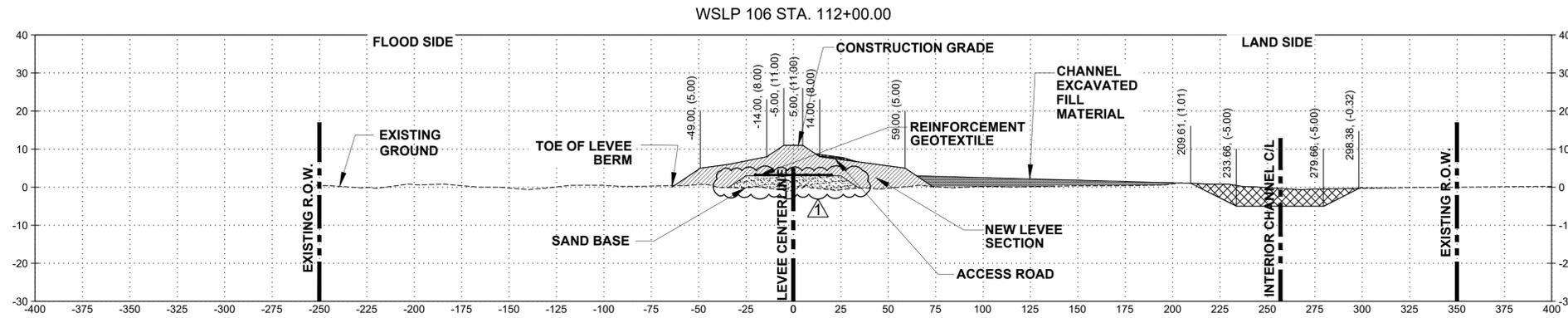
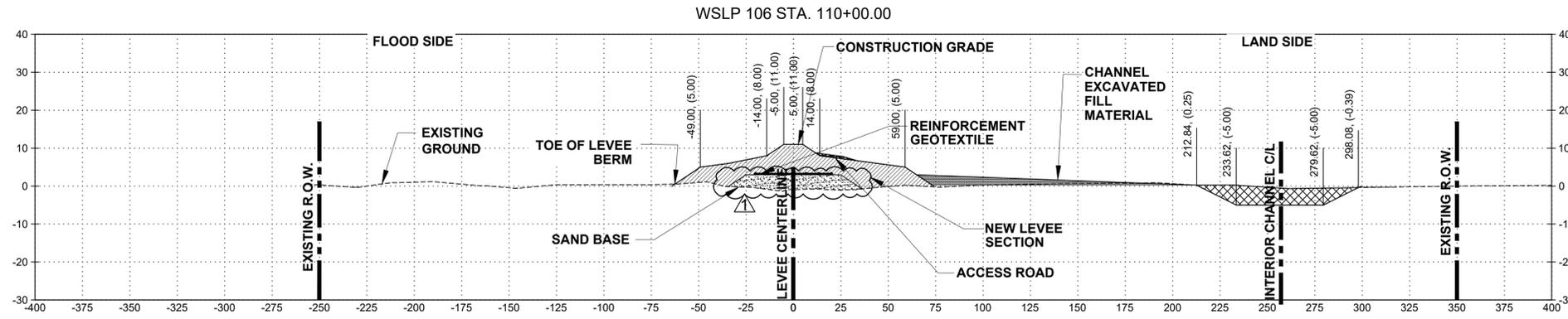
CROSS SECTION
SHEET IDENTIFICATION
C-301

D

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NOTE:

SEE SHEETS C-201 THROUGH C-203 FOR SEED, FERTILIZATION & MULCHING LIMITS.



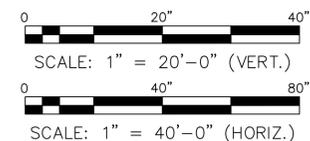
DATE	DESCRIPTION	APPR.	MARK
6/6/2023	REVISE SAND BELOW EXISTING GRADE	K.K.	Δ

DESIGNED BY: ECM CONSULTANTS, INC.	DATE: APRIL 2023
DESIGNED BY: M.M.	SUBMITTED BY: KAZEM ALKHANI
DESIGNED BY: S.S.	FILE NUMBER: H-4-48306
DESIGNED BY: S.S.	FILE NAME:

WEST SHORE LAKE PONTCHARTRAIN, LOUISIANA
 HURRICANE AND STORM DAMAGE RISK REDUCTION
 PROJECT ST. JOHN THE BAPTIST PARISH, LOUISIANA
 LEVEES AND I-10 WEST T-WALL CROSSING
 WSLP-106

CROSS SECTION

SHEET IDENTIFICATION
 C-302

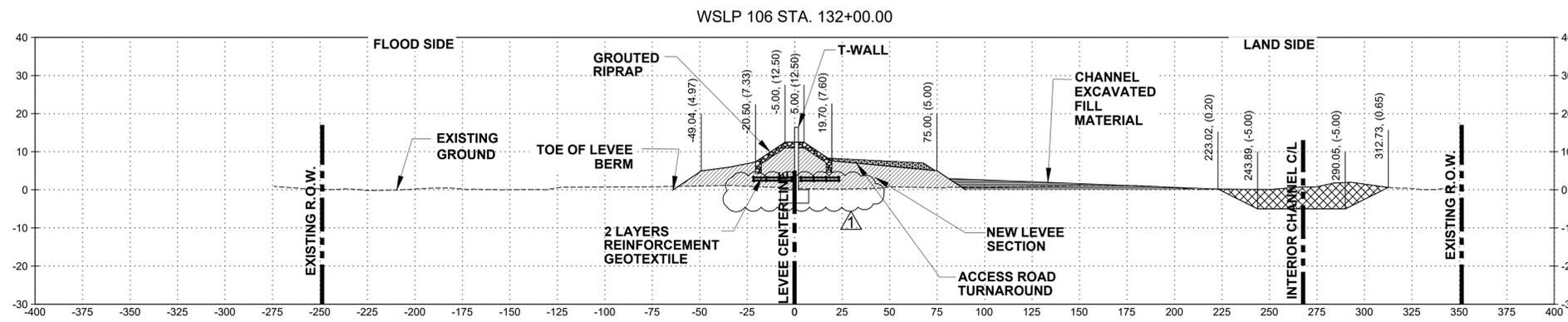
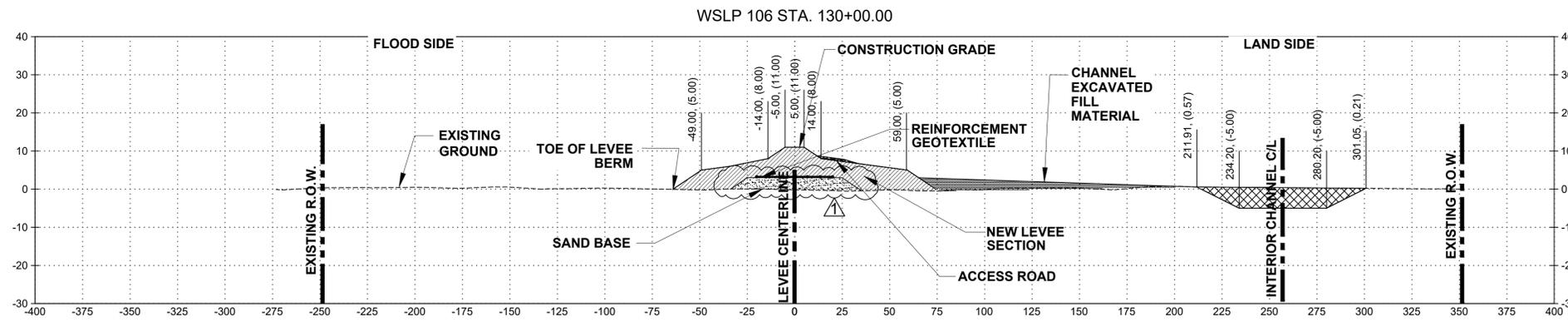
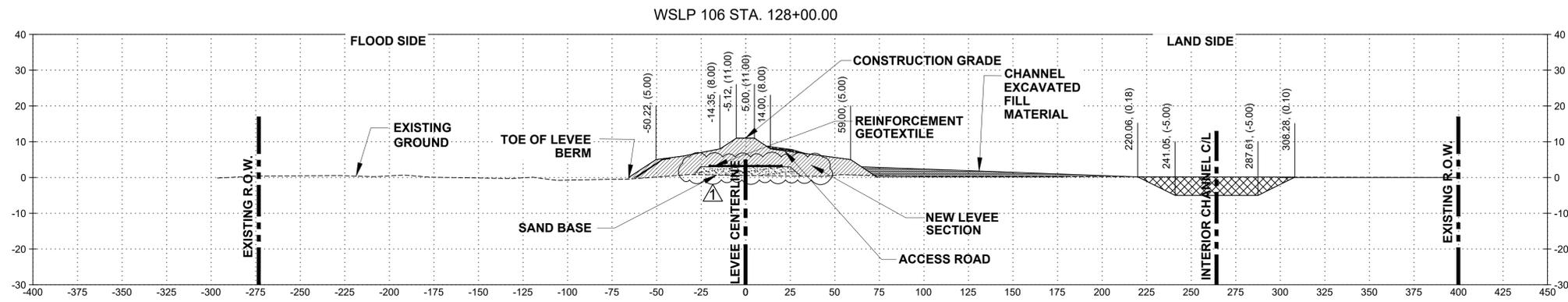
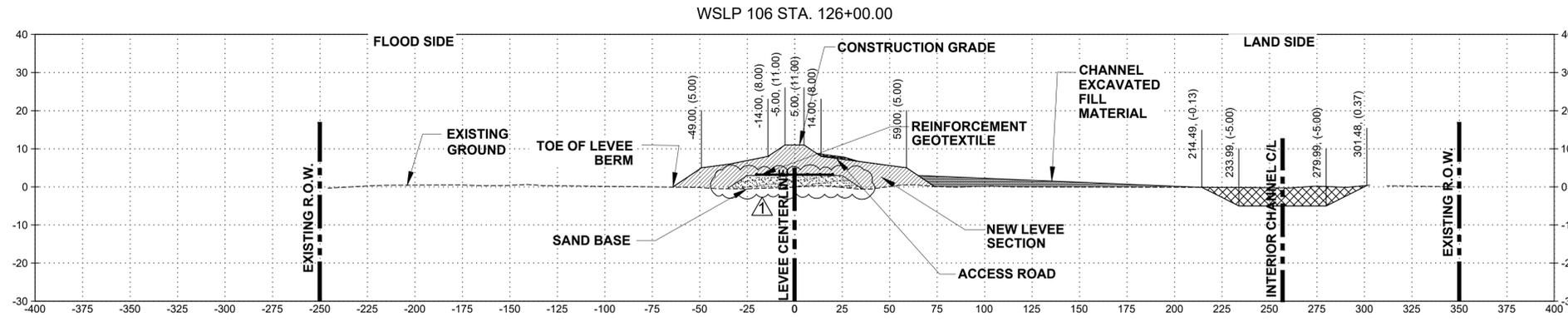


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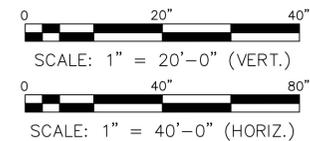
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NOTE:

SEE SHEETS C-201 THROUGH C-203 FOR SEED, FERTILIZATION & MULCHING LIMITS.



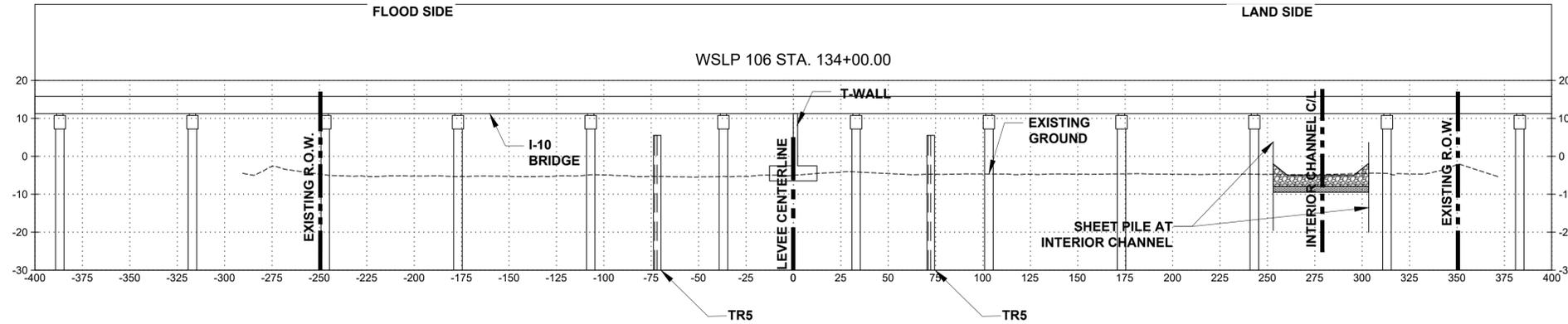
DATE	DESCRIPTION	APPR.	MARK
6/6/2023	REVISE SAND BELOW EXISTING GRADE	K.K.	APPR.

DESIGNED BY: ECM CONSULTANTS, INC.	DATE: APRIL 2023
DESIGNED BY: M.M.	SUBMITTAL NO. NO. 1928-23-03
DESIGNED BY: KAZEM ALIKHANI	CONTRACT NO. W912FR-
DESIGNED BY: M.M.	FILE NUMBER: H-4-48206
DESIGNED BY: KAZEM ALIKHANI	FILE NAME:
DESIGNED BY: M.M.	ANSI D

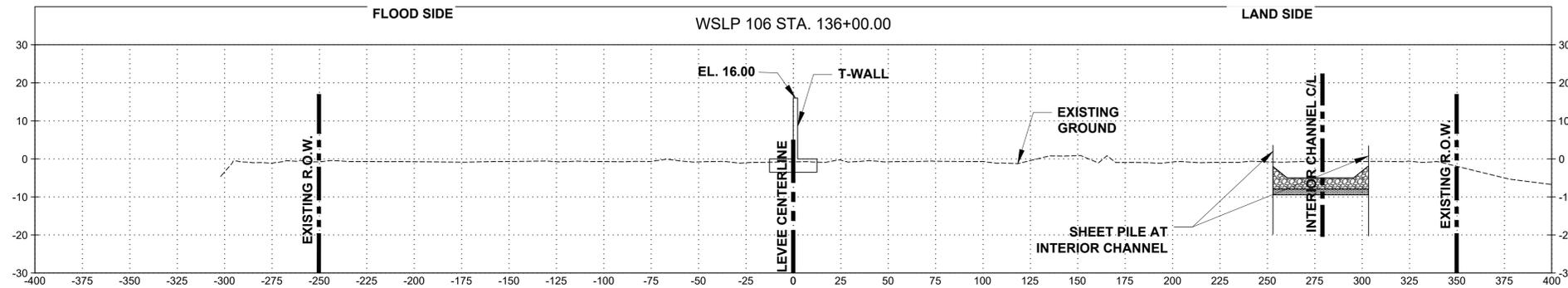
WEST SHORE LAKE PONTCHARTRAIN, LOUISIANA
 HURRICANE AND STORM DAMAGE RISK REDUCTION
 PROJECT ST. JOHN THE BAPTIST PARISH, LOUISIANA
 LEVEES AND I-10 WEST T-WALL CROSSING
 WSLP-106

SHEET IDENTIFICATION
C-304

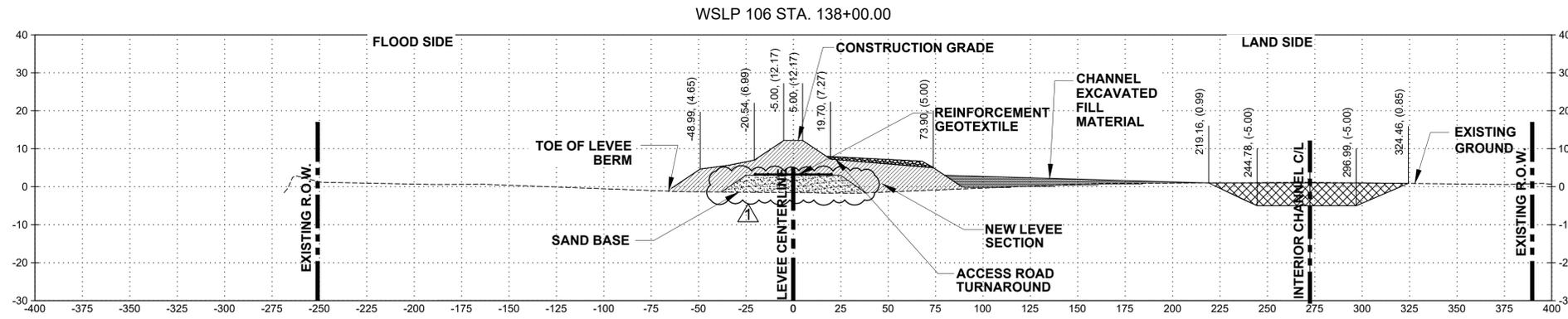
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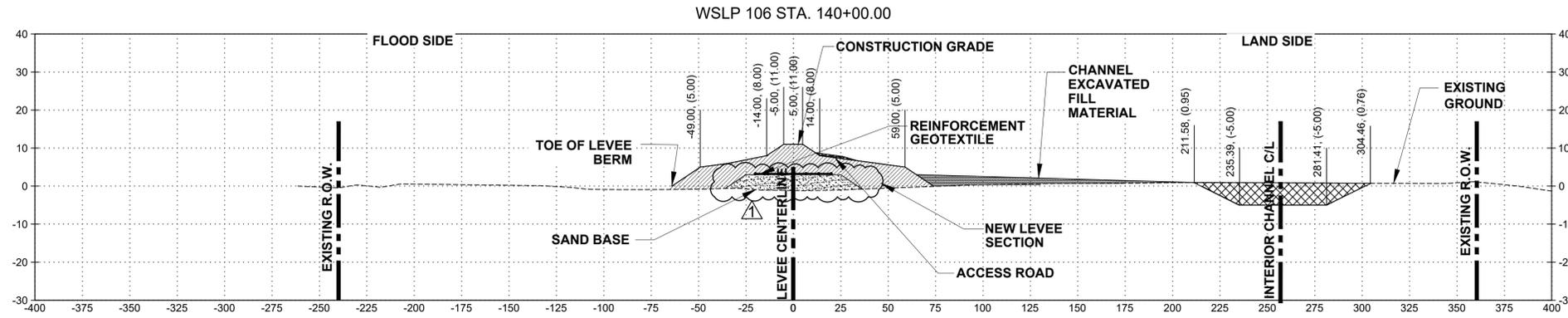
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NOTE:

SEE SHEETS C-201 THROUGH C-203 FOR SEED, FERTILIZATION & MULCHING LIMITS.

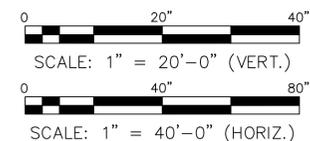


DATE	DESCRIPTION	APPR.
6/6/2023	REVISE SAND BELOW EXISTING GRADE	K.K.

DESIGNED BY: ECM CONSULTANTS, INC.	DATE: APR 2023
U.S. ARMY CORPS OF ENGINEERS NEW ORLEANS DISTRICT NEW ORLEANS, LOUISIANA	SUBMITTED BY: KAZEM ALIKHANI
ECM CONSULTANTS, INC. 1301 CLEARVIEW PKWY, SUITE 200 METAIRIE, LA 70001	FILE NUMBER: H-4-48306

WEST SHORE LAKE PONTCHARTRAIN, LOUISIANA
HURRICANE AND STORM DAMAGE RISK REDUCTION
PROJECT ST. JOHN THE BAPTIST PARISH, LOUISIANA
LEVEES AND I-10 WEST T-WALL CROSSING
WSLP-106

SHEET IDENTIFICATION
C-305



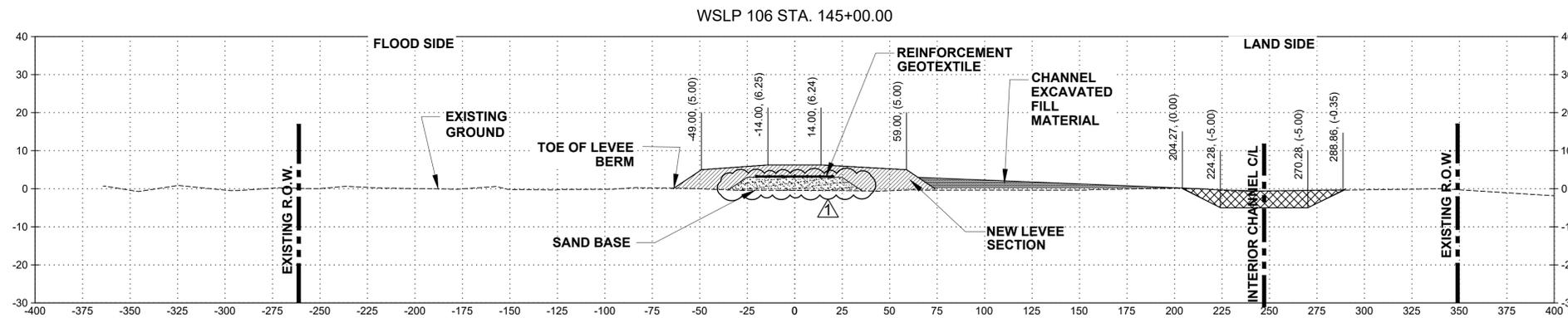
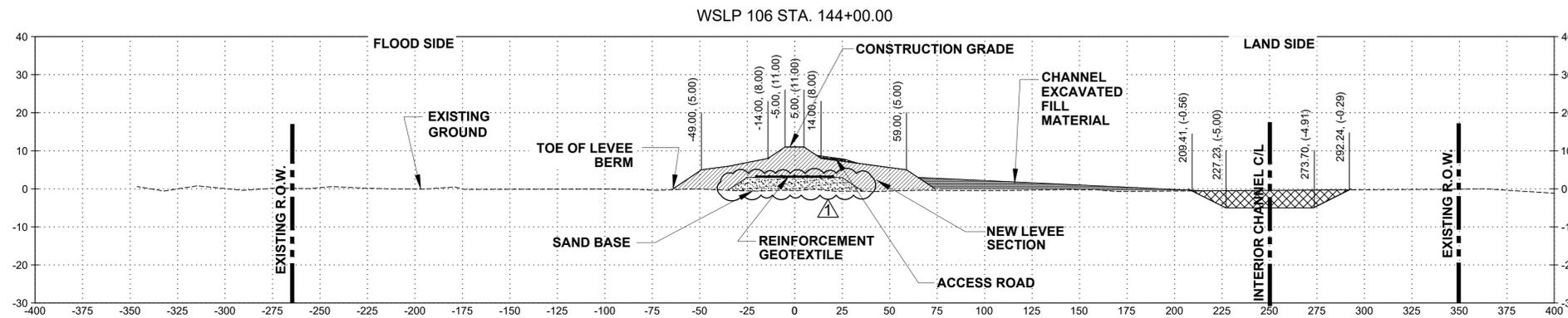
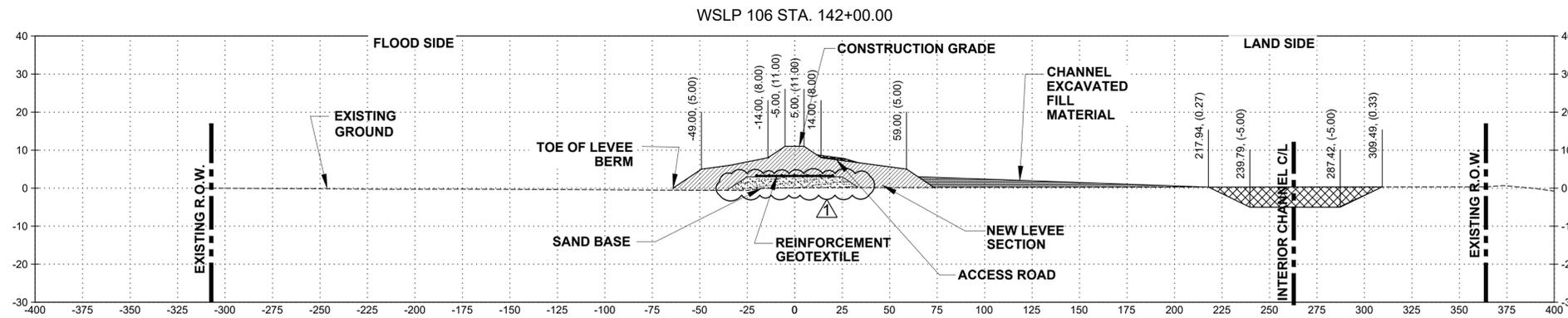
CROSS SECTION

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NOTE:
SEE SHEETS C-201 THROUGH C-203 FOR SEED, FERTILIZATION & MULCHING LIMITS.



MARK	DESCRIPTION	DATE	APPR.
Δ	REVISE SAND BELOW EXISTING GRADE	6/6/2023	K.K.

DESIGNED BY: ECM CONSULTANTS, INC.	DATE: APRIL 2023
DESIGNED BY: M.M.M.	DESIGNATION NO.:
DESIGNED BY: KAZEM ALIKHANI	CONTRACT NO.:
DESIGNED BY: KAZEM ALIKHANI	FILE NUMBER: H-4-48306
DESIGNED BY: KAZEM ALIKHANI	FILE NAME:

WEST SHORE LAKE PONTCHARTRAIN, LOUISIANA
HURRICANE AND STORM DAMAGE RISK REDUCTION
PROJECT ST. JOHN THE BAPTIST PARISH, LOUISIANA
LEVEES AND I-10 WEST T-WALL CROSSING
WSLP-106
CROSS SECTION

SHEET IDENTIFICATION
C-306

