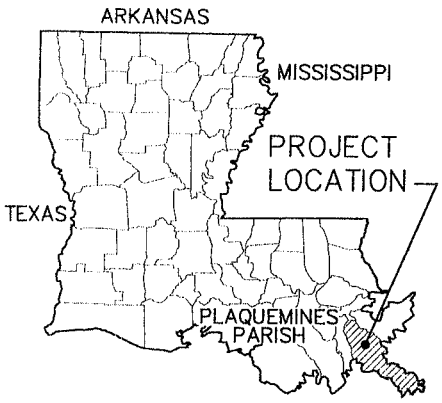


AREA MAP

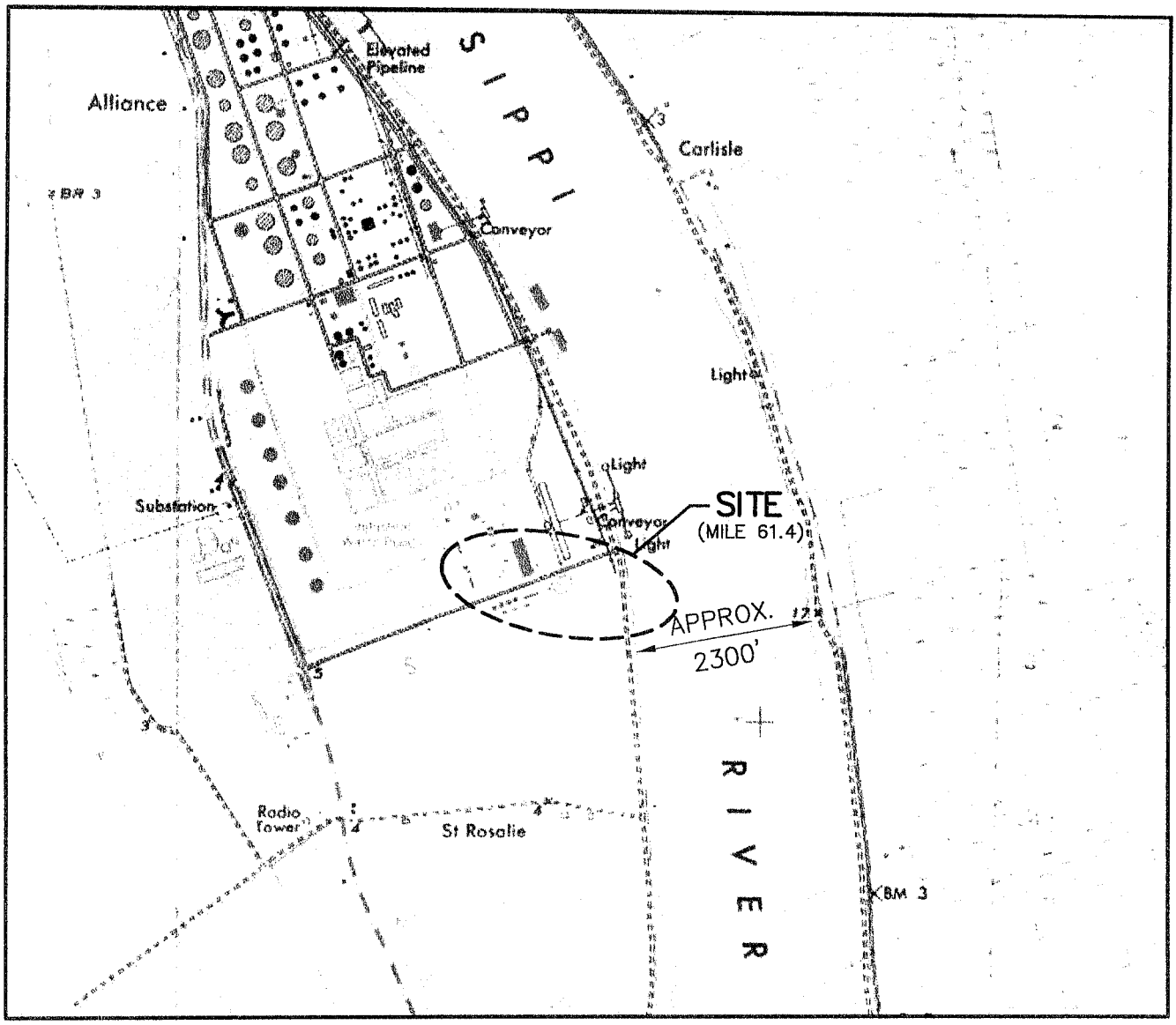
SITE INFORMATION

MAILING ADDRESS:
SOUTH LOUISIANA ETHANOL
11266 HWY. 23
BELLE CHASSE, LA 70037

PHYSICAL ADDRESS:
SOUTH LOUISIANA ETHANOL
278 E. RAVENNA RD.
BELLE CHASSE, LA. 70037

PROJECT INFORMATION

REQUEST FOR PERMIT TO CONSTRUCT A FIXED BARGE DOCK, VEHICULAR APPROACH BRIDGE AND PIPERACK.



PROJECT SITE:
LAT: 29° 40' 10.3"
LONG: 89° 57' 47.6"

VICINITY MAP

SCALE: 1" = 2000'

0 2000' 4000'

DISTANCE IN FEET

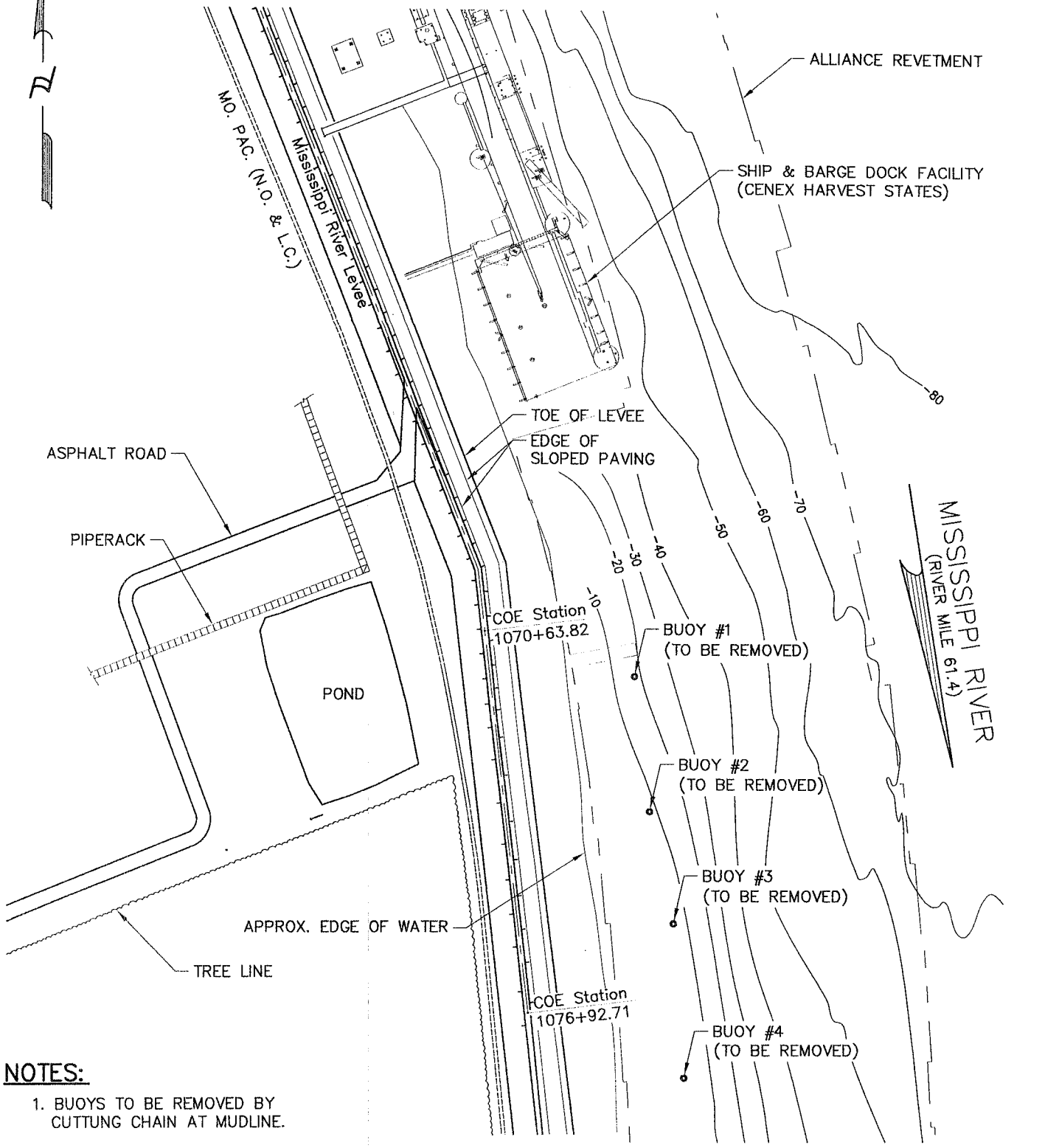
Infinity Engineering Consultants, LLC
CIVIL
STRUCTURAL
MECHANICAL
ELECTRICAL
MARINE
NEW ORLEANS, LA 504-304-0548

SCALE	NOTED
PROJECT NO.	12-052
RELEASE DATE	11/22/12
DRAWN BY	K. LOZE
DRAWING CHECK	R. KENNEY
APPROVED	W. THOMASSIE

SOUTH LOUISIANA ETHANOL
NEW BARGE DOCK
VICINITY AND AREA MAP

DWG. NO. 12-052-PER-001

REV. 0



NOTES:

1. BUOYS TO BE REMOVED BY CUTTUNG CHAIN AT MUDLINE.

EXISTING SITE PLAN

SCALE: 1" = 200'-0"

0 200 400

DISTANCE IN FEET

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MARINE

SCALE	NOTED
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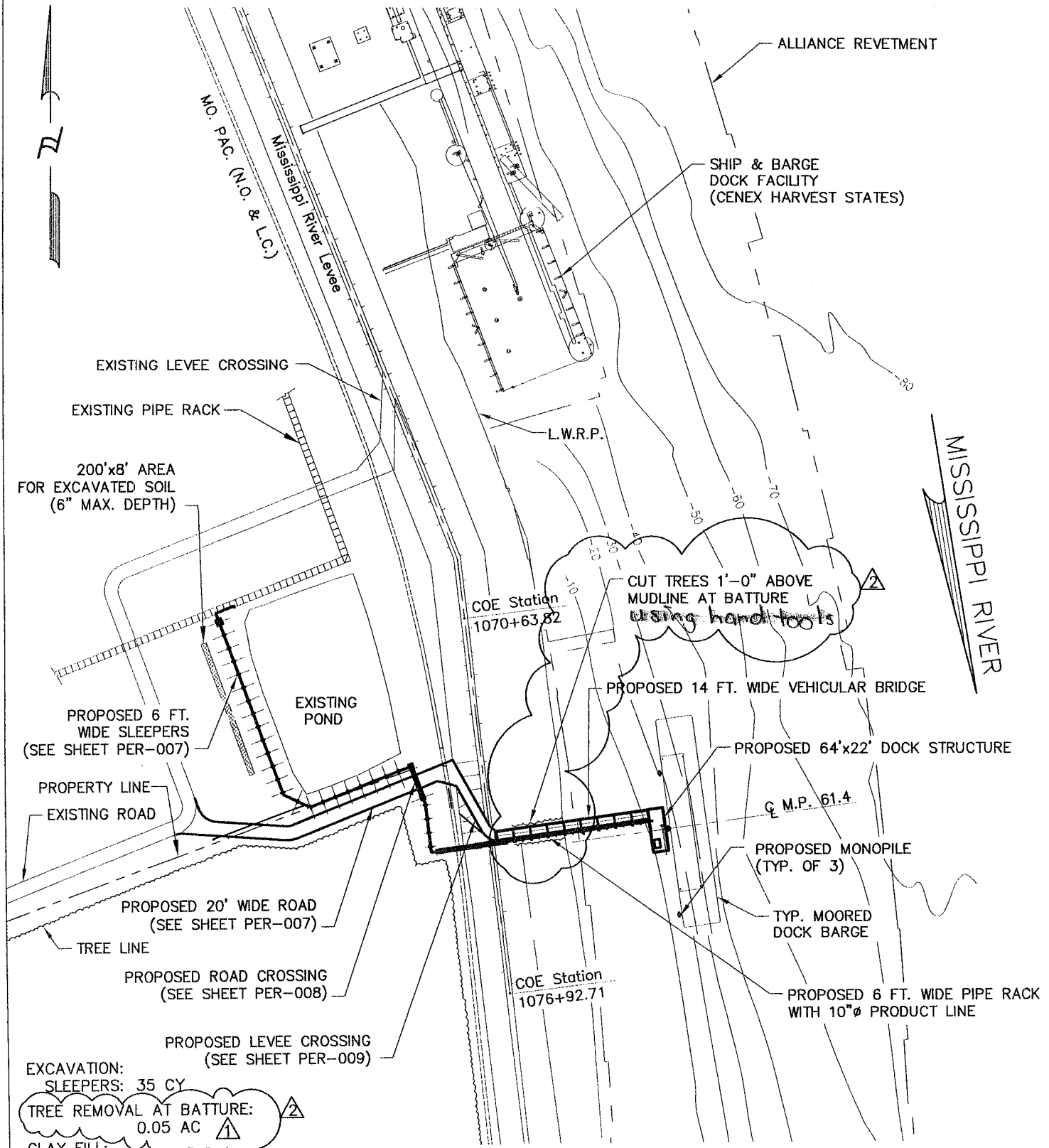
DRAWN BY	K. LOZE
DRAWING CHECK	R. KENNEY
APPROVED	W. THOMASSIE

SOUTH LOUISIANA ETHANOL
NEW BARGE DOCK
EXISTING SITE PLAN

DWG. NO. 12-052-PER-002

REV. 0



PROPOSED SITE PLAN

SCALE: 1" = 200'-0"

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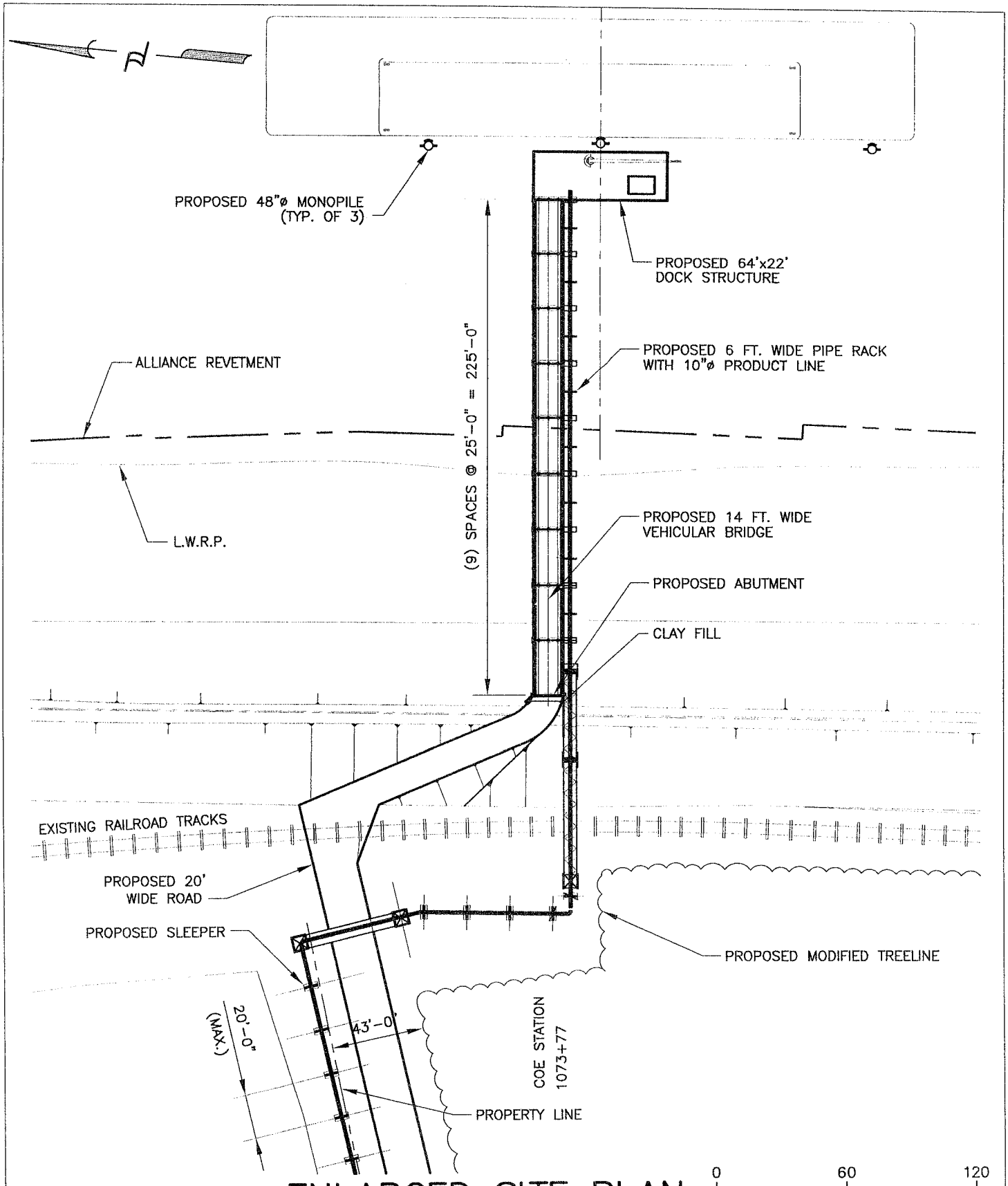
MECHANICAL
ELECTRICAL
MARINE

SCALE	NOTED
PROJECT NO.	12-052
RELEASE DATE	11/22/12
DRAWN BY	K. LOZE
DRAWING CHECK	R. KENNEY
APPROVED	W. THOMASSIE

SOUTH LOUISIANA ETHANOL
NEW BARGE DOCK
PROPOSED SITE PLAN

DWG. NO. 12-052-PER-003

REV. 2



ENLARGED SITE PLAN

SCALE: 1" = 60'-0"

0 60 120

DISTANCE IN FEET

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ELECTRICAL
MARINE

SCALE	NOTED
PROJECT NO.	12-052
RELEASE DATE	11/22/12
DRAWN BY	K. LOZE
DRAWING CHECK	R. KENNEY
APPROVED	W. THOMASSIE

SOUTH LOUISIANA ETHANOL
NEW BARGE DOCK
ENLARGED PROPOSED SITE PLAN

DWG. NO. 12-052-PER-004

REV. 0

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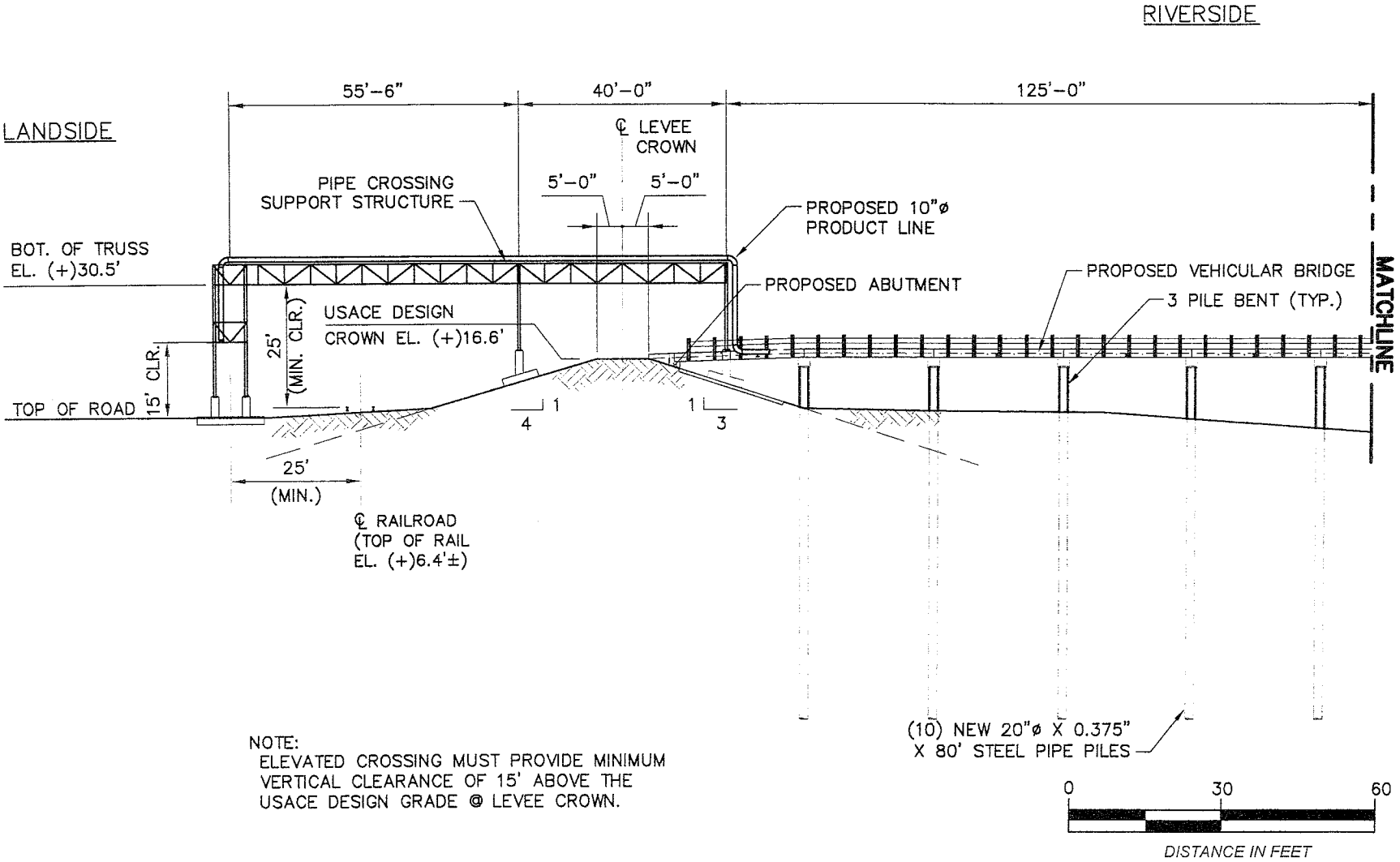
SCALE NOTED
PROJECT NO. 12-052
RELEASE DATE 11/22/12
DRAWN BY K. LOZE
DRAWING CHECK R. KENNEY
APPROVED W. THOMASSIE

DWG. NO. 12-052-PER-005

REV. 0

SOUTH LOUISIANA ETHANOL
NEW BARGE DOCK
LEVEE CROSSING / BRIDGE SECTION

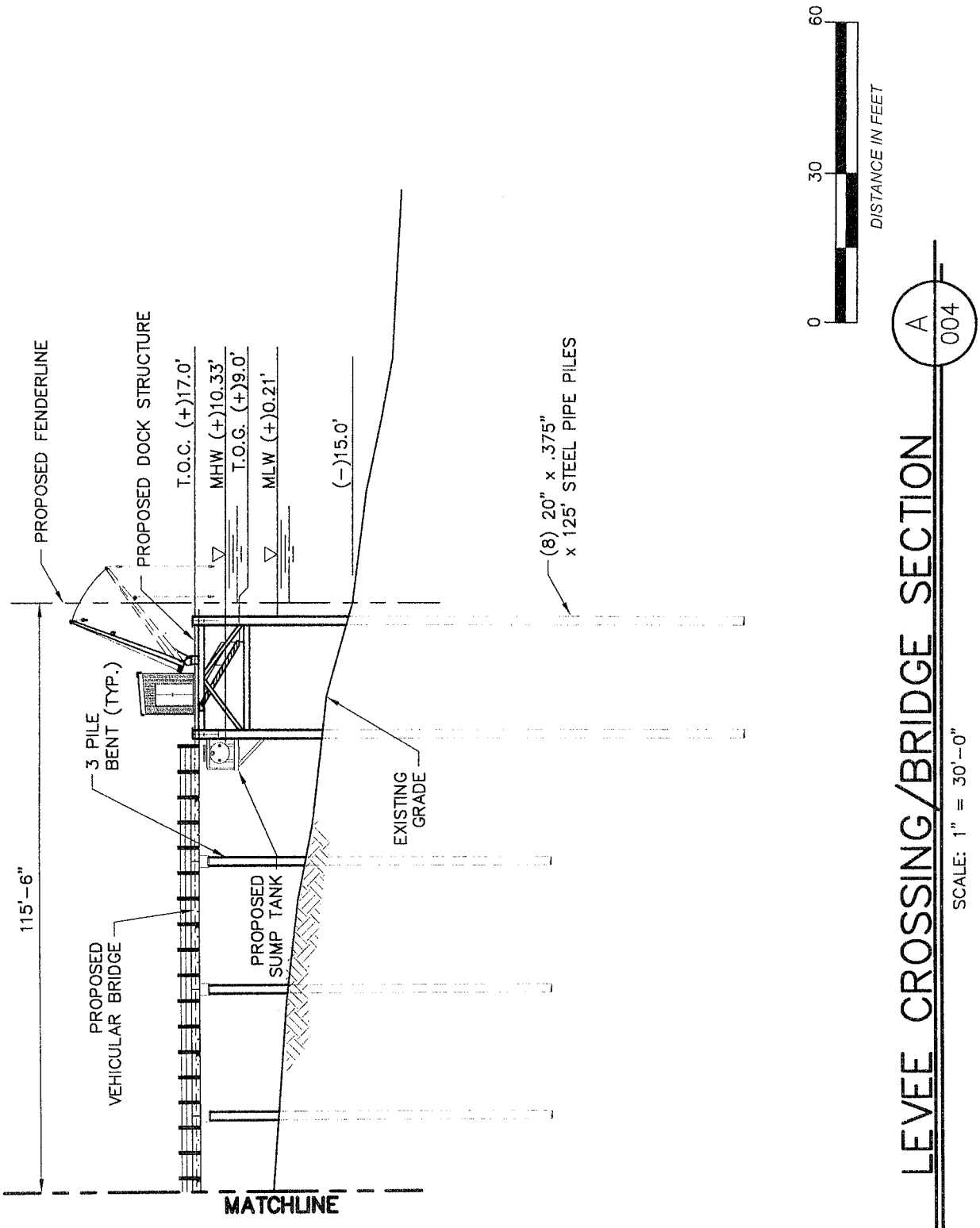


NOTE:
ELEVATED CROSSING MUST PROVIDE MINIMUM VERTICAL CLEARANCE OF 15' ABOVE THE USACE DESIGN GRADE @ LEVEE CROWN.

LEVEE CROSSING/BRIDGE SECTION

SCALE: 1" = 30'-0"

A
004



LEVEE CROSSING/BRIDGE SECTION

A 004

SCALE: 1" = 30'-0"

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PROJECT NO.	12-052
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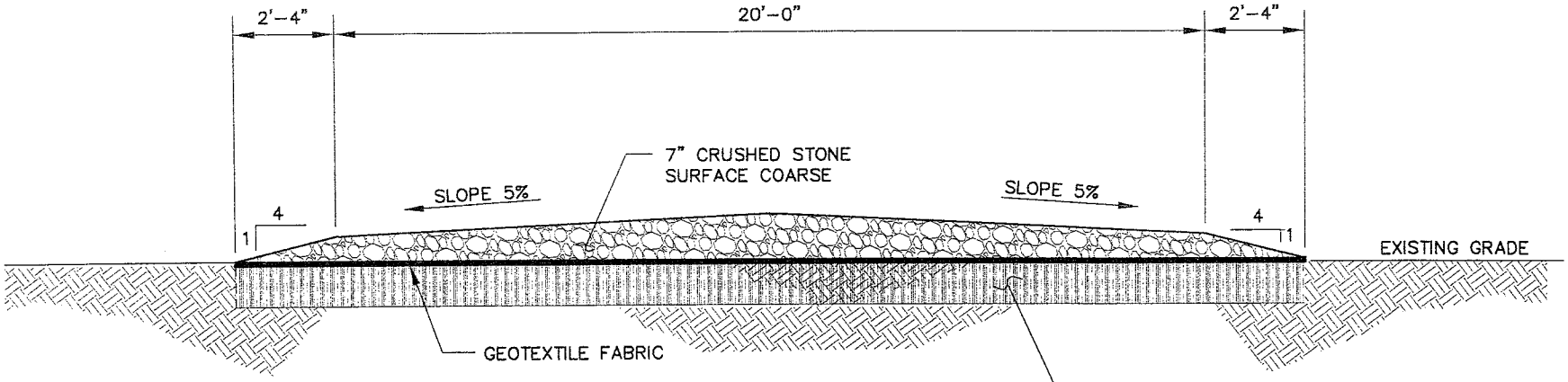
DRAWING CHECK	R. KENNEY
APPROVED	W. THOMASSIE

SOUTH LOUISIANA ETHANOL
NEW BARGE DOCK
LEVEE CROSSING / BRIDGE SECTION

DWG. NO. 12-052-PER-006

REV. 0

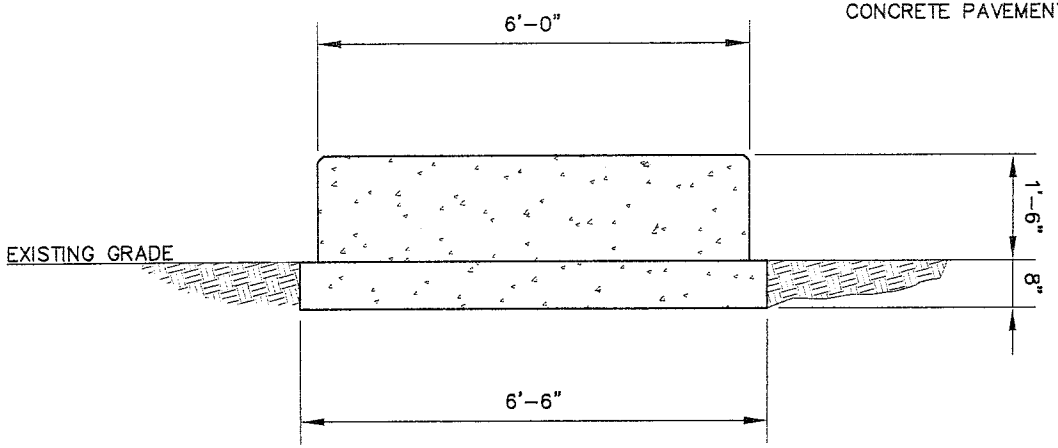


TYPICAL ROADWAY SECTION

SCALE: 1/4" = 1'-0"

NOTE

1. CRUSHED STONE SHALL MEET THE REQUIREMENTS OF LADOTD 2006 STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (BLUE BOOK). ALL MATERIALS & INSTALLATION SHALL BE IN FULL COMPLIANCE THEREIN, AND SHALL BE IN ACCORDANCE W/ "BASE COURSE" AS SPECIFIED IN SECTION 02502 "ASPHALTIC CONCRETE PAVEMENT". (NO ASPHALT TOPPING REQ'D.)



TYPICAL SLEEPER SECTION

SCALE: 3/8" = 1'-0"

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SCALE NOTED
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RELEASE DATE 11/22/12
DRAWN BY K. LOZE
DRAWING CHECK R. KENNEY
APPROVED W. THOMASSIE

SOUTH LOUISIANA ETHANOL
NEW BARGE DOCK
SECTIONS

DWG. NO. 12-052-PER-007

REV. 0

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SCALE NOTED
PROJECT NO. 12-052
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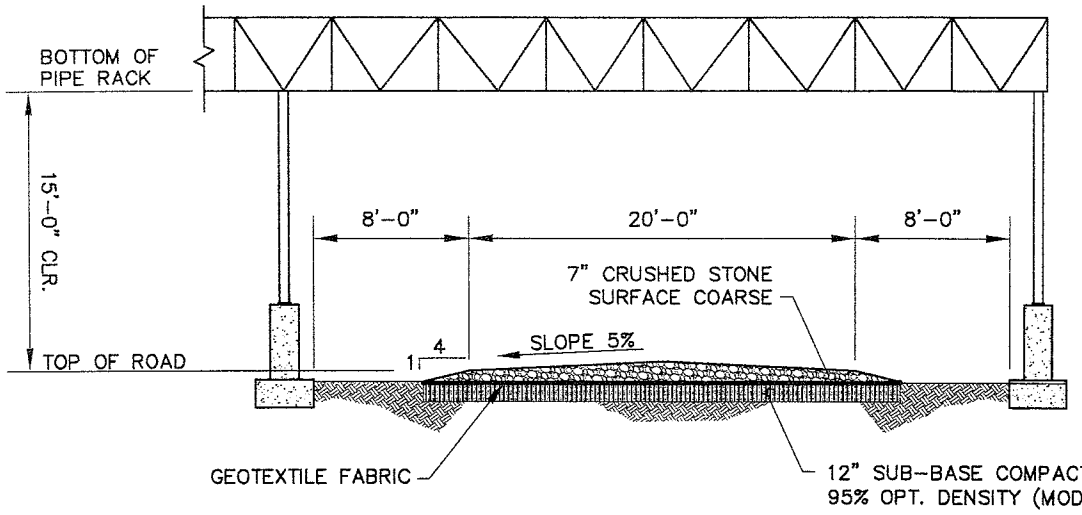
DRAWN BY K. LOZE
DRAWING CHECK R. KENNEY
APPROVED W. THOMASSIE

SOUTH LOUISIANA ETHANOL
NEW BARGE DOCK
TYPICAL CROSSING SECTIONS

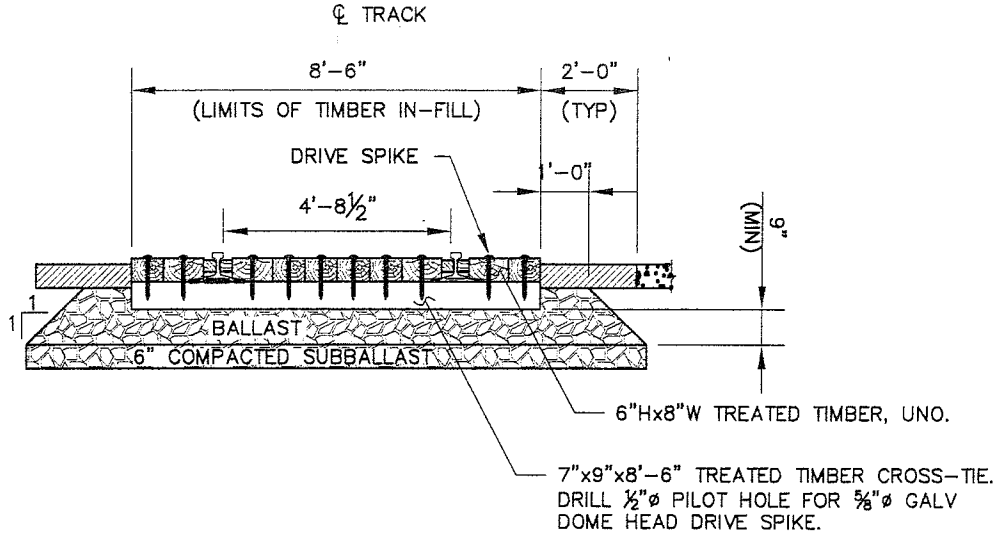
DWG. NO. 12-052-PER-008
REV. 0



NOTE:
SEE SHEET 003 FOR FILL QUANTITIES.

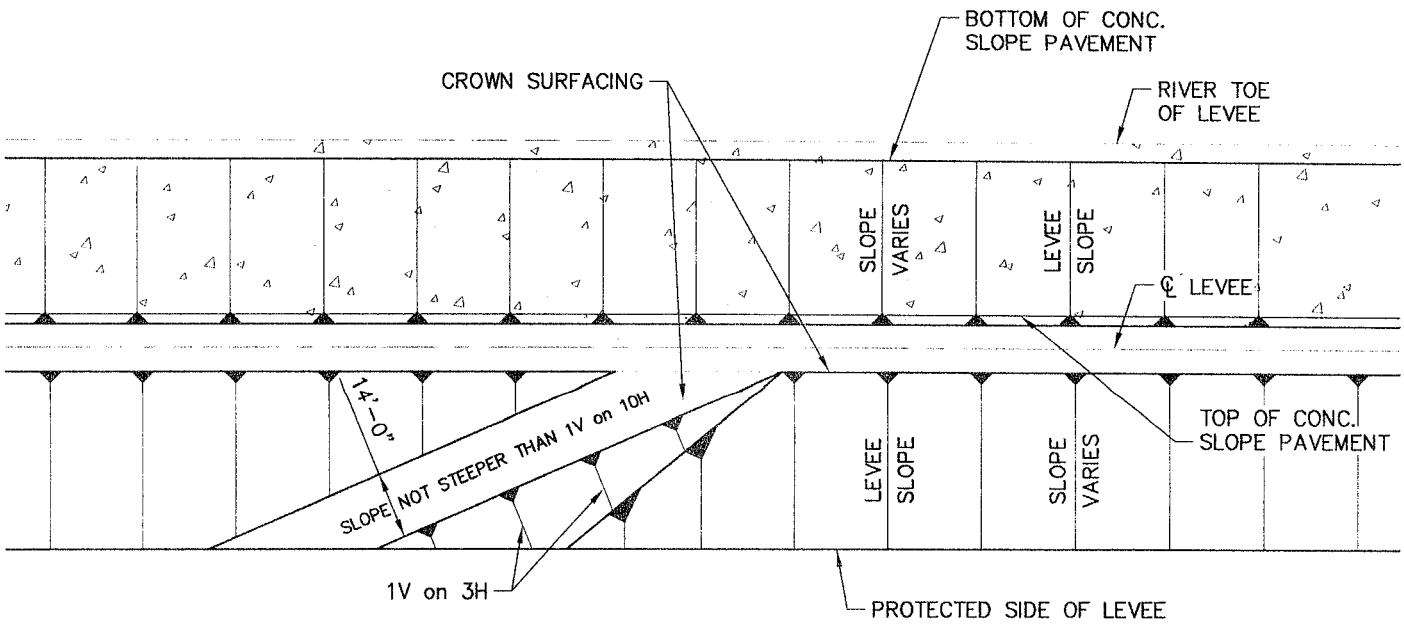
TYPICAL SECTION @ ROAD CROSSING

SCALE: 1" = 10'-0"



TYPICAL SECTION @ RAILROAD CROSSING

SCALE: 1/4" = 1'-0"



DIAGONAL RAMP APPROACH

SCALE: N.T.S.

NOTES:

1. A 10' MIN. DISTANCE BETWEEN THE LEVEE TOE AND THE PIPELINE SUPPORT IS REQUIRED TO AVOID PENETRATION OF CONCRETE SLOPE PAVEMENT.
2. CONCRETE SLOPE PAVEMENT IS REQUIRED WHEN SPREAD FOOTINGS REST ON LEVEE SLOPE. PAVEMENT MUST EXTEND 5' EACH SIDE OF FOOTINGS.
3. SMOOTH TRANSITIONS SHALL BE CONSTRUCTED BETWEEN THE LEVEE ENLARGEMENT AND THE EXISTING LEVEE.
4. ALL FRESH FILLS SHALL BE SODDED OR FERTILIZED AND SEEDED AND SHALL BE MAINTAINED UNTIL A HEALTHY GROWTH IS OBTAINED.
5. THE CROWN OF THE ENLARGED LEVEE AND THE LEVEE ACCESS RAMPS SHALL BE SURFACED WITH CRUSHED STONE (7" IN THICKNESS (LOOSE MEASUREMENT) FOR EXISTING CROWN AND RAMPS AND 9" FOR NEW CONSTRUCTION) FOR THE FULL WIDTH (10' MIN.) AND LENGTH OF THE ENLARGED LEVEE OR RAMP. THE CRUSHED STONE SURFACING SHALL MEET THE REQUIREMENTS OF LSSRB SECTION 1003.04 (a), 2000 EDITION.
6. FILL MATERIAL USED IN CONSTRUCTION OF THE LEVEE ENLARGEMENT, RAMPS, PIPE COVER AND BACKFILL OF EXCAVATION SHALL BE IMPERVIOUS EARTH FILL.
7. AT LOCATIONS WHERE THE ELEVATION OF ORIGINAL NATURAL GROUND IS NOT EASILY DETERMINED BECAUSE OF PREVIOUS HYDRAULIC SPOIL PLACED IN THE AREA, THE ELEVATION OF +1 FT. N.G.V.D. WILL BE USED TO DETERMINE THE THEORETICAL TOE OF THE LEVEE.

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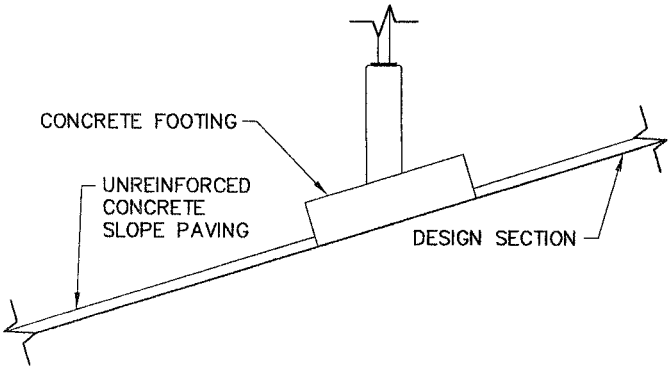
DRAWING CHECK	R. KENNEY
APPROVED	W. THOMASSIE

SOUTH LOUISIANA ETHANOL
NEW BARGE DOCK
DIAGONAL RAMP CROSSING

DWG. NO. 12-052-PER-009

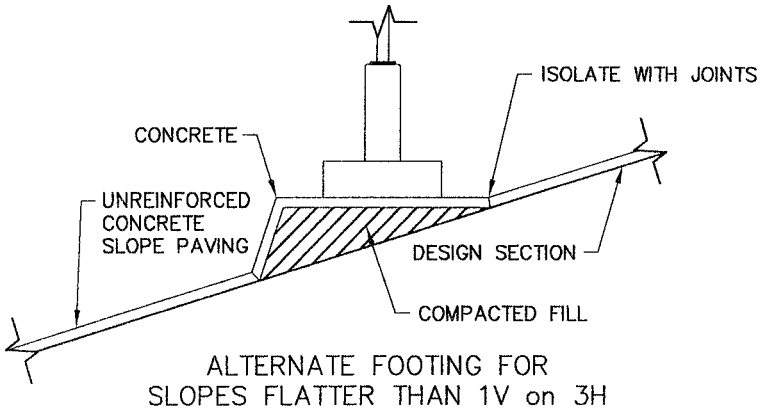
REV. 0



FOOTING FOR SLOPES FLATTER THAN 1V on 3H

FOOTING DETAIL

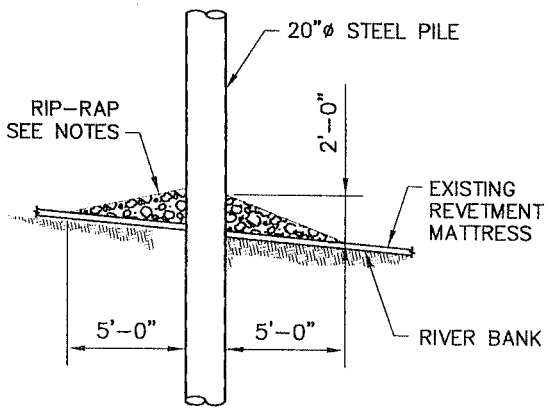
SCALE: 1/8" = 1'-0"



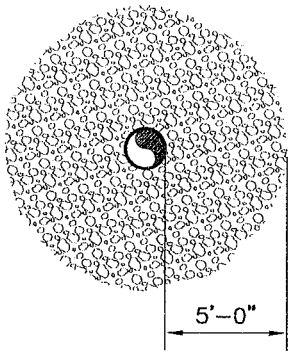
ALTERNATE FOOTING FOR SLOPES FLATTER THAN 1V on 3H

FOOTING DETAIL

SCALE: 1/8" = 1'-0"



ELEVATION



PLAN

REVETMENT REPAIR DETAIL

SCALE: 1/8" = 1'-0"

EMBANKMENT REQUIREMENTS:

COMPACTED FILL: (LEVEE ACCESS ROADS AND FOOTINGS)
THE MATERIAL FOR COMPACTED FILL SHALL BE PLACED OR SPREAD IN LAYERS, THE FIRST OR BOTTOM LAYER AND THE LAST TWO LAYERS NOT MORE THAN 6 INCHES IN THICKNESS AND ALL LAYERS BETWEEN THE FIRST AND THE LAST TWO LAYERS NOT MORE THAN 12 INCHES IN THICKNESS PRIOR TO COMPACTION. THE FIRST AND EACH SUCCESSIVE LAYER OF COMPACTED FILL MATERIAL SHALL BE COMPACTED TO AT LEAST 90 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR DENSITY) AT A MOISTURE CONTENT DETERMINED FROM THE STANDARD PROCTOR DENSITY TEST ASTM D 698.

UNCOMPACTED FILL: (BERMS AND BACKFILL)
THE MATERIAL FOR UNCOMPACTED FILL SHALL BE PLACED IN APPROXIMATELY HORIZONTAL LAYERS NOT EXCEEDING 3 FEET IN THICKNESS. THE LAYERS SHALL BE UNIFORMLY SPREAD, DISTRIBUTED, AND OTHERWISE MANIPULATED DURING PLACEMENT TO SUCH AN EXTENT THAT INDIVIDUAL LOADS OF MATERIAL DEPOSITED ON THE FILL WILL NOT REMAIN INTACT, AND LARGE, OPEN VOIDS IN THE FILL WILL BE ELIMINATED.

REVETMENT REPAIR NOTES:

1. SIZE OF RIPRAP TO VARY BETWEEN 6 POUNDS AND 125 POUNDS WITH 40 PERCENT TO 60 PERCENT OF THE STONE WITHIN THE RANGE OF 25 POUNDS TO 75 POUNDS.
2. WHEN PENETRATING THE UPPER BANK PAVING IN A REVETMENT WITH PILES, A 10 INCH THICK RIPRAP STONE LAYER SHALL BE PLACED OVER ALL AREAS WHERE THE BANK PAVING IS DISTURBED BY DRIVING OPERATIONS.

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DRAWING CHECK	R. KENNEY
APPROVED	W. THOMASSIE

SOUTH LOUISIANA ETHANOL
NEW BARGE DOCK
FOOTING AND REVET REPAIR DETAIL

DWG. NO. 12-052-PER-010

REV. 0