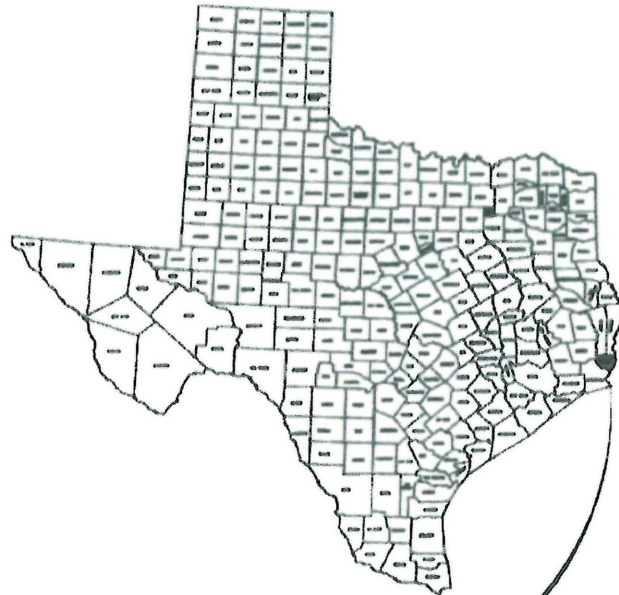




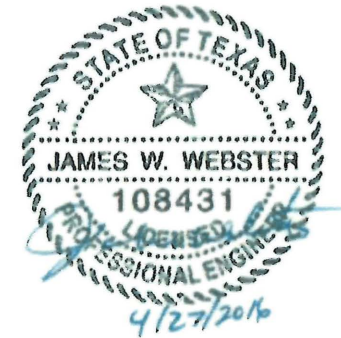
DUCKS UNLIMITED, INC. LOWER NECHES WMA NELDA STARK UNIT

ORANGE COUNTY, TX
IN COOPERATION WITH

TEXAS PARKS AND WILDLIFE DEPARTMENT



PROJECT LOCATION



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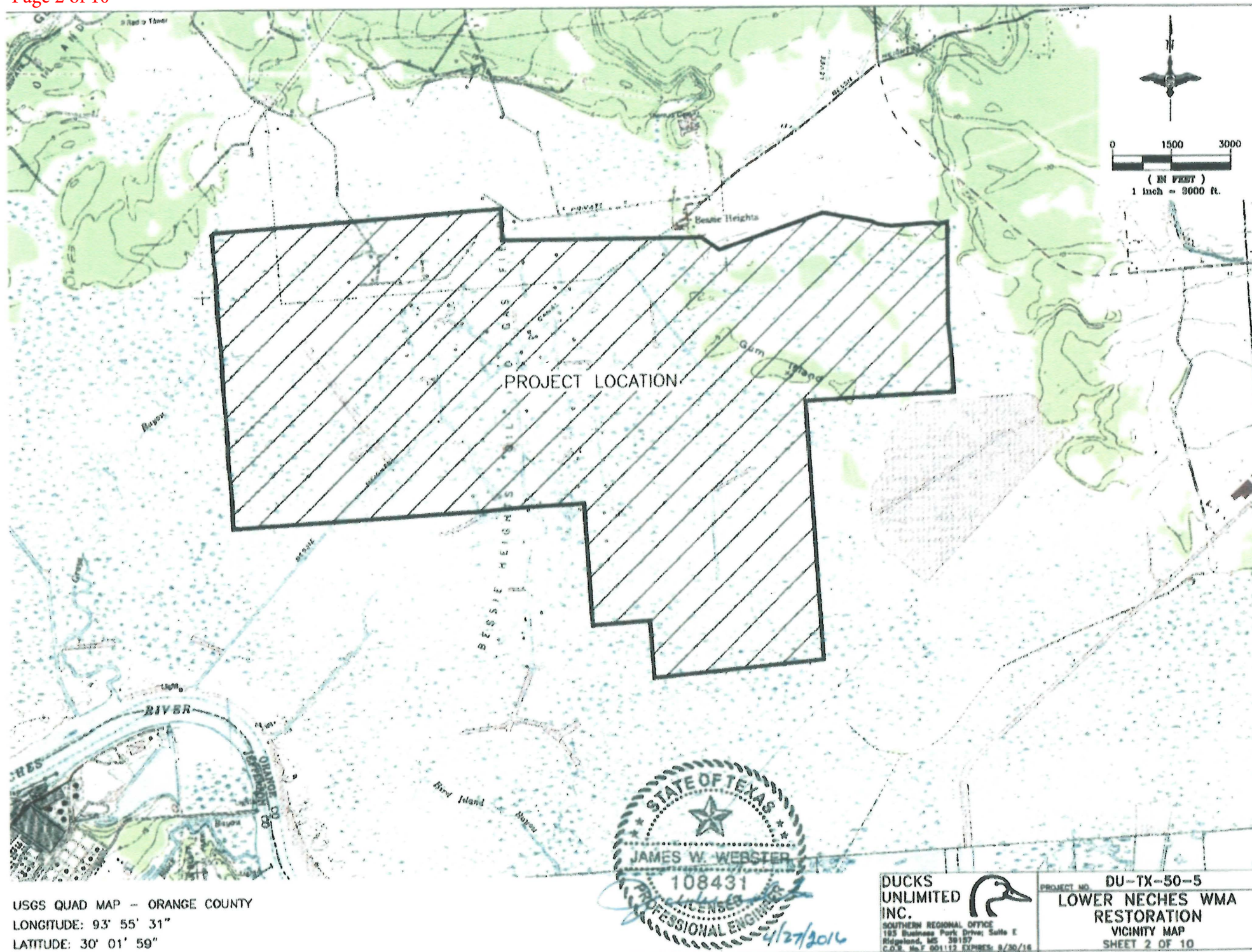
1	COVER SHEET
2	VICINITY MAP
3	UNIT LOCATIONS
4	UNIT 1
5	UNIT 2
6	UNIT 3,6,7
7	UNIT 4
8	UNIT 5
9	TYPICAL DETAILS
10	TEMPORARY DECANT STRUCTURE

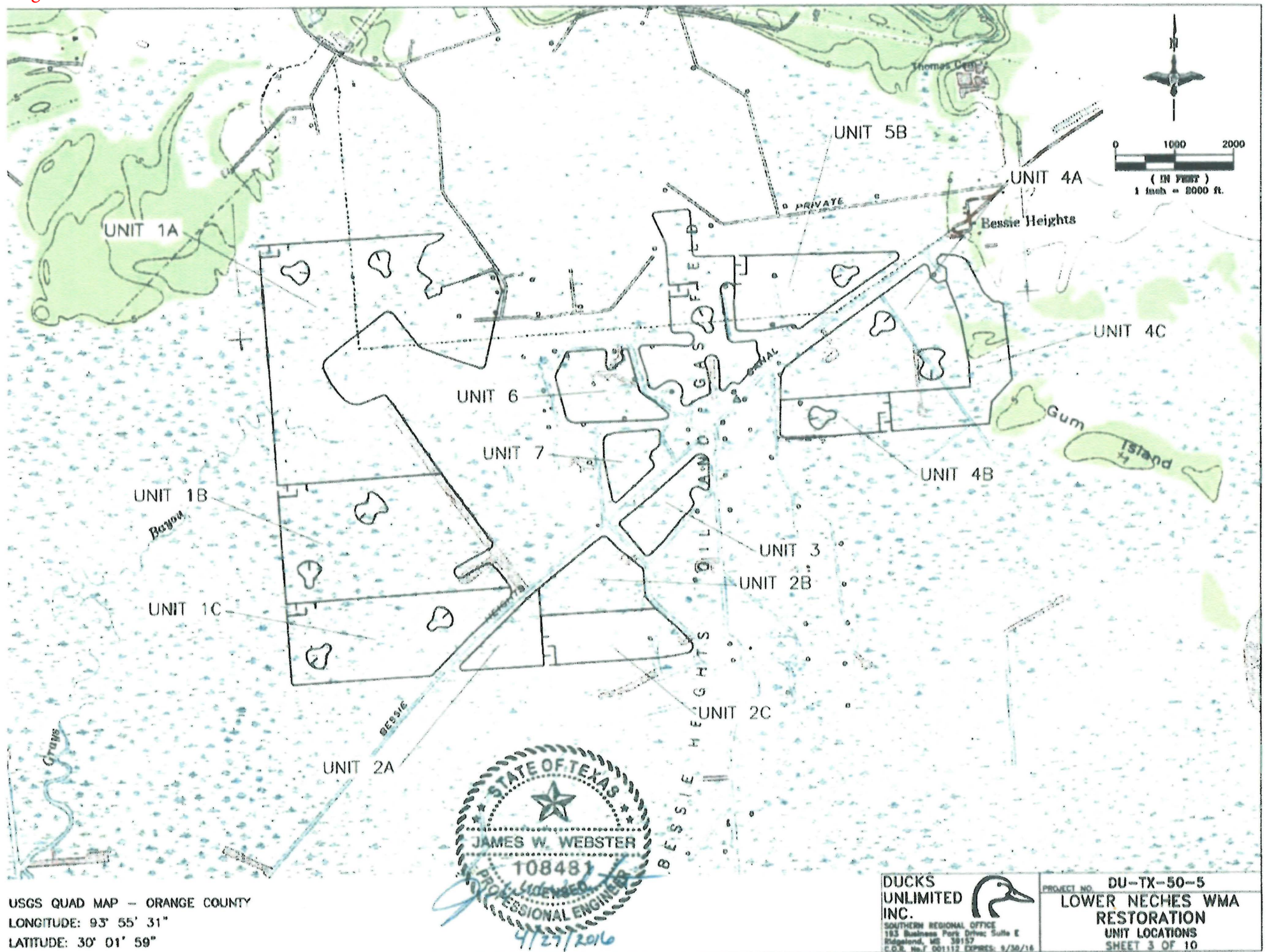
CAUTION:
The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

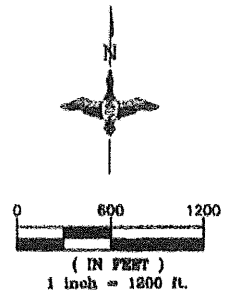
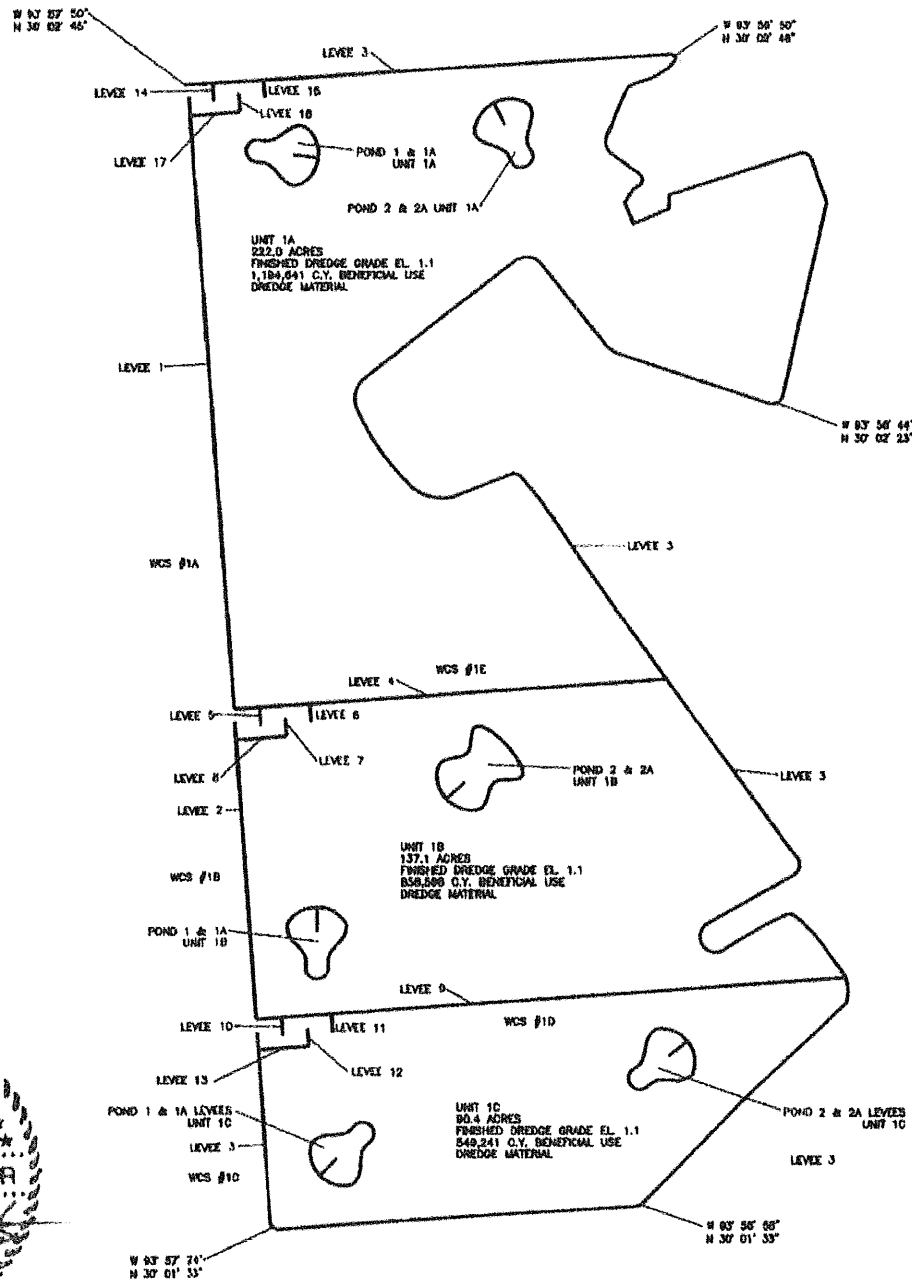
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193 Business Park Drive, Suite C
Ridgeland, MS 39157
C.O.R. No. 1 001132 EXPIRES: 9/30/16



PROJECT NO. DU-TX-50-5
**LOWER NECHES WMA
RESTORATION**
COVER SHEET
SHEET 1 OF 10



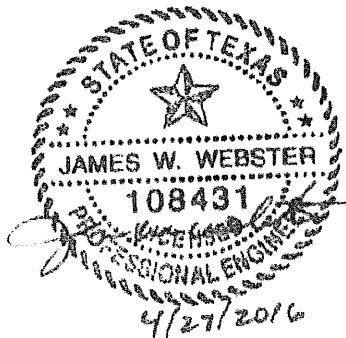




LEVEE	LENGTH (L.F.)	EMBANKMENT (FILL)
1	3,961'	42,334 C.Y.
2	1,922'	21,716 C.Y.
3	23,166'	168,152 C.Y.
4	2,763'	32,008 C.Y.
5	120'	1,482 C.Y.
6	120'	1,492 C.Y.
7	120'	1,468 C.Y.
8	320'	3,844 C.Y.
9	3,784'	40,030 C.Y.
10	120'	1,375 C.Y.
11	120'	1,355 C.Y.
12	120'	1,384 C.Y.
13	320'	3,620 C.Y.
14	120'	1,006 C.Y.
15	120'	1,083 C.Y.
16	120'	1,054 C.Y.
17	320'	2,772 C.Y.

PONDS	LENGTH (L.F.)	EMBANKMENT (FILL)
UNIT 1A POND 1	1,324	11,001
UNIT 1A POND 1A	160	1,457
UNIT 1A POND 2	1,324	11,427
UNIT 1A POND 2A	160	1,544
UNIT 1B POND 1	1,324	12,680
UNIT 1B POND 1A	160	1,741
UNIT 1B POND 2	1,324	18,512
UNIT 1B POND 2A	160	1,980
UNIT 1C POND 1	1,324	12,972
UNIT 1C POND 1A	160	1,894
UNIT 1C POND 2	1,324	12,337
UNIT 1C POND 2A	160	1,720

PONDS	DREDGE (FILL)
UNIT 1A POND 1	6,523
UNIT 1A POND 2	8,457
UNIT 1B POND 1	13,949
UNIT 1B POND 2	9,156
UNIT 1C POND 1	8,417
UNIT 1C POND 2	8,409



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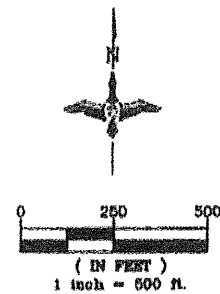


PROJECT NO. **DU-TX-50-5**
**LOWER NECHES WMA
RESTORATION**
UNIT 1
SHEET 4 OF 10

LEEVE	LENGTH (L.F.)	EMBANKMENT (FILL)
1	9,648'	176,942 C.Y.
2	1,300'	14,408 C.Y.
3	1,899'	19,694 C.Y.
4	120'	1,370 C.Y.
5	120'	1,394 C.Y.
6	120'	1,411 C.Y.
7	320'	3,751 C.Y.

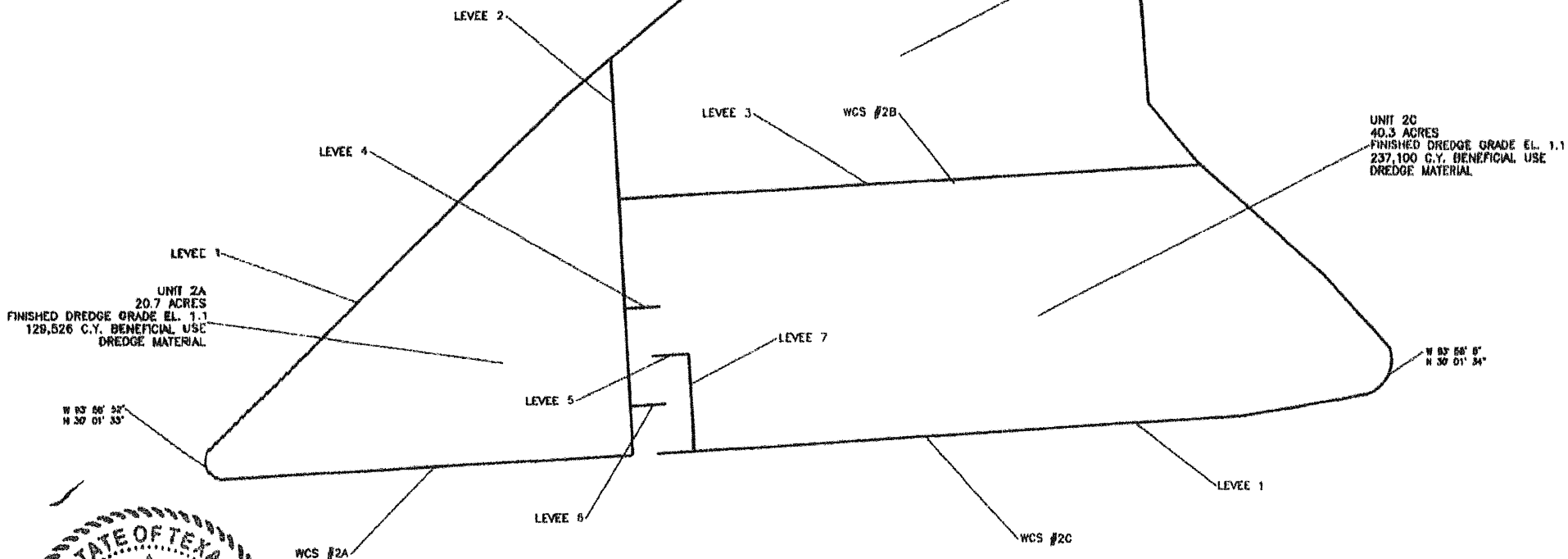
EXISTING PIPELINE

W 83° 56' 23"
N 39° 01' 54"



UNIT 2B
34.7 ACRES
FINISHED DREDGE GRADE EL. 1.1
212,533 C.Y. BENEFICIAL USE
DREDGE MATERIAL

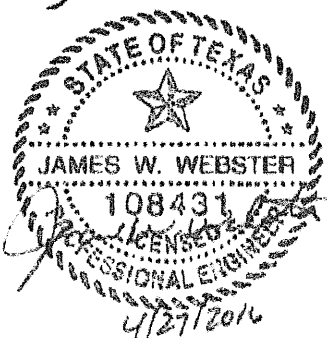
UNIT 2C
40.3 ACRES
FINISHED DREDGE GRADE EL. 1.1
237,100 C.Y. BENEFICIAL USE
DREDGE MATERIAL



UNIT 2A
20.7 ACRES
FINISHED DREDGE GRADE EL. 1.1
129,526 C.Y. BENEFICIAL USE
DREDGE MATERIAL

W 83° 56' 23"
N 39° 01' 54"

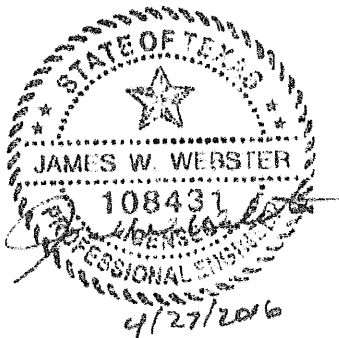
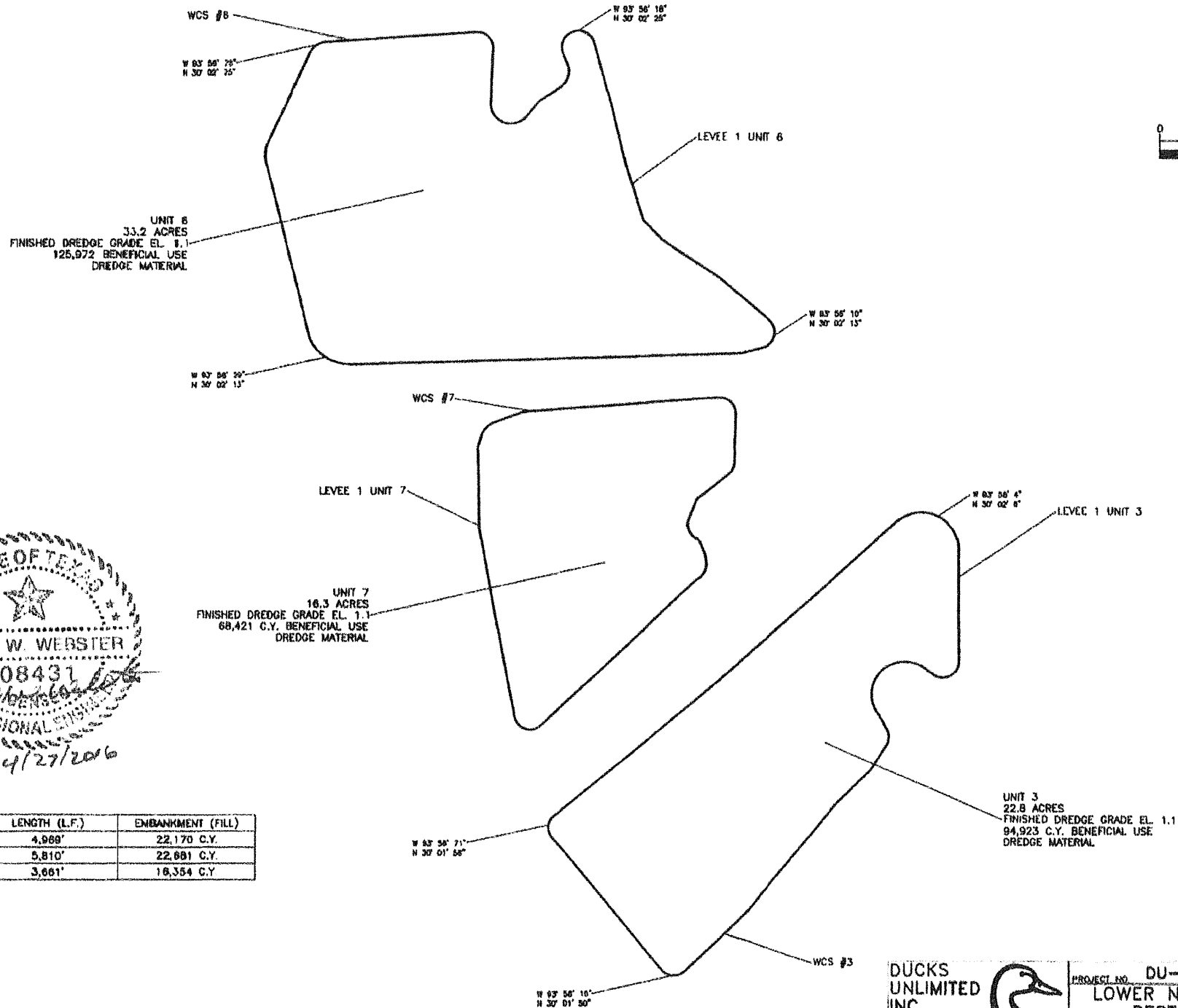
W 83° 56' 0"
N 39° 01' 34"



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PROJECT NO. **DU-TX-50-5**
**LOWER NECHES WMA
RESTORATION**
UNIT 2
SHEET 5 OF 10

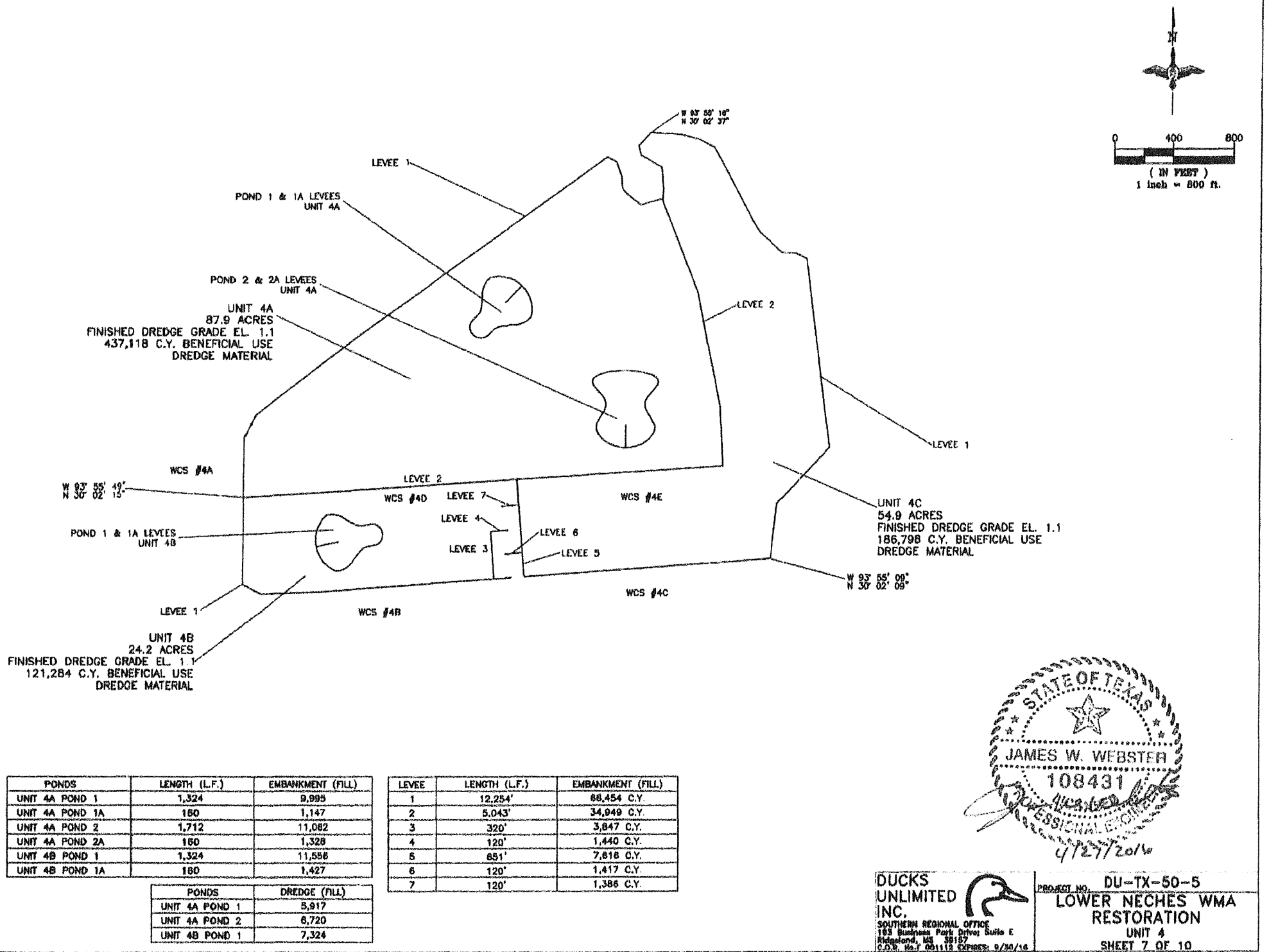


LEVEE	LENGTH (L.F.)	EMBANKMENT (FILL)
UNIT 3	4,969'	22,170 C.Y.
UNIT 6	5,810'	22,681 C.Y.
UNIT 7	3,661'	16,354 C.Y.

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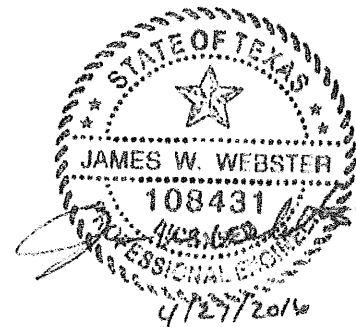
PROJECT NO. DU-TX-50-5
**LOWER NECHES WMA
RESTORATION**
UNIT 3,6,7
SHEET 6 OF 10



PONDS	LENGTH (L.F.)	EMBANKMENT (FILL)
UNIT 4A POND 1	1,324	9,995
UNIT 4A POND 1A	180	1,147
UNIT 4A POND 2	1,712	11,062
UNIT 4A POND 2A	180	1,328
UNIT 4B POND 1	1,324	11,558
UNIT 4B POND 1A	180	1,427

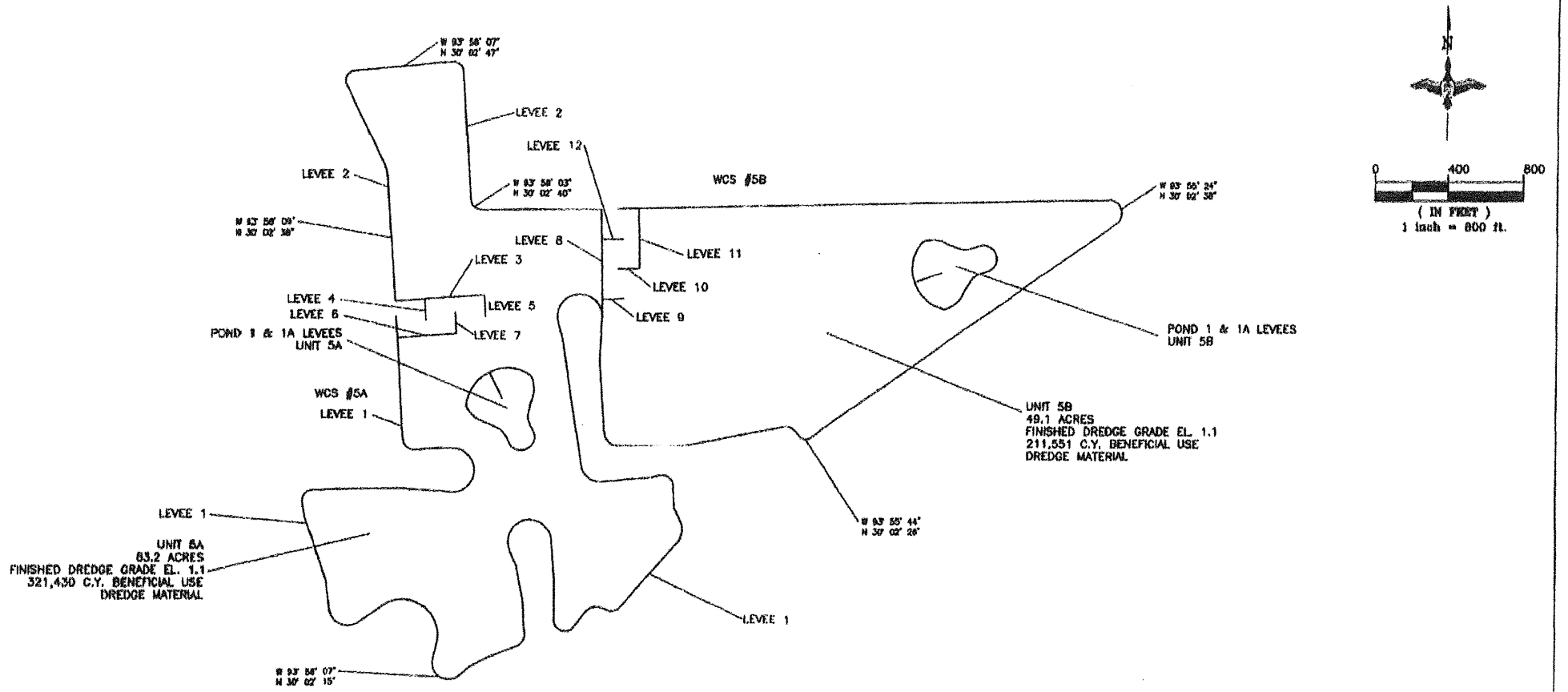
LEVEE	LENGTH (L.F.)	EMBANKMENT (FILL)
1	12,254'	88,454 C.Y.
2	5,043'	34,949 C.Y.
3	320'	3,847 C.Y.
4	120'	1,440 C.Y.
5	651'	7,616 C.Y.
6	120'	1,417 C.Y.
7	120'	1,386 C.Y.

PONDS	DREDGE (FILL)
UNIT 4A POND 1	5,917
UNIT 4A POND 2	6,720
UNIT 4B POND 1	7,324



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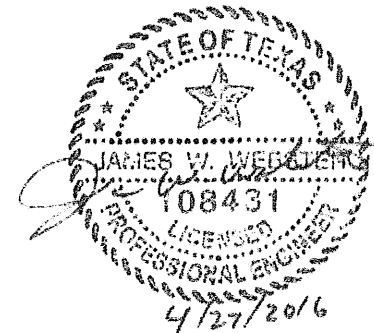
PROJECT NO. **DU-TX-50-5**
LOWER NECHES WMA RESTORATION
UNIT 4
SHEET 7 OF 10



LEVEE	LENGTH (L.F.)	EMBANKMENT (FILL)
1	15,189'	116,744 C.Y.
2	3,338'	37,688 C.Y.
3	480'	4,330 C.Y.
4	120'	1,262 C.Y.
5	120'	1,275 C.Y.
6	320'	3,307 C.Y.
7	120'	1,278 C.Y.
8	555'	4,741 C.Y.
9	120'	989 C.Y.
10	120'	1,081 C.Y.
11	321'	2,865 C.Y.
12	120'	1,097 C.Y.

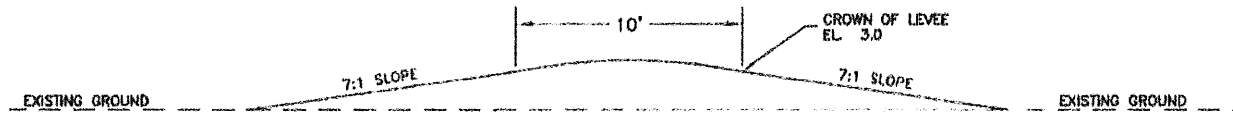
PONDS	LENGTH (L.F.)	EMBANKMENT (FILL)
UNIT 5A POND 1	1,324	12,390
UNIT 5A POND 1A	160	1,800
UNIT 5B POND 1	1,324	8,533
UNIT 5B POND 1A	160	810

PONDS	DREDGE (FILL)
UNIT 5A POND 1	8,659
UNIT 5B POND 1	3,872

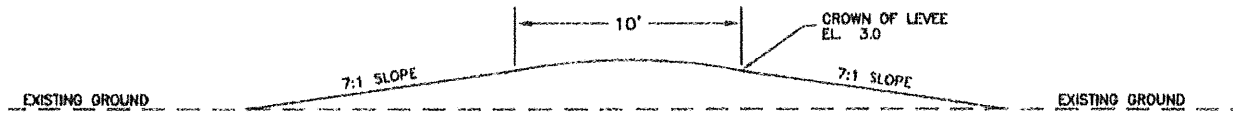


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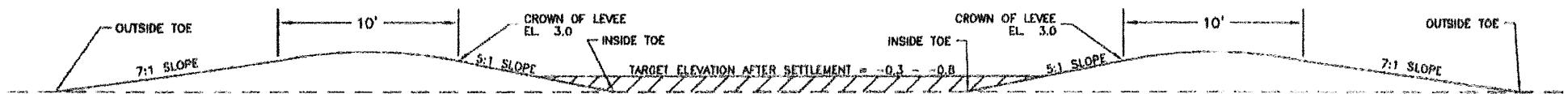
PROJECT NO. **DU-TX-50-5**
LOWER NECHES WMA
RESTORATION
UNIT 5
SHEET 8 OF 10



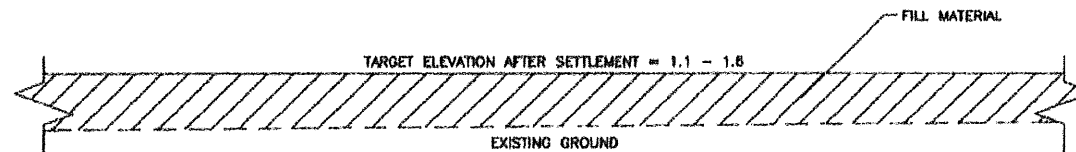
TYPICAL SECTION OF EXTERIOR LEVEES
NOT TO SCALE



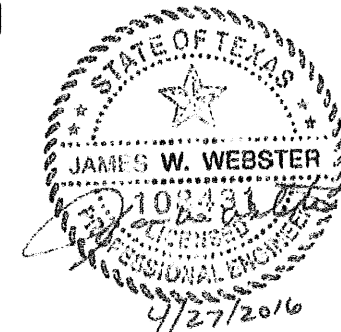
TYPICAL SECTION OF INTERIOR LEVEES
NOT TO SCALE

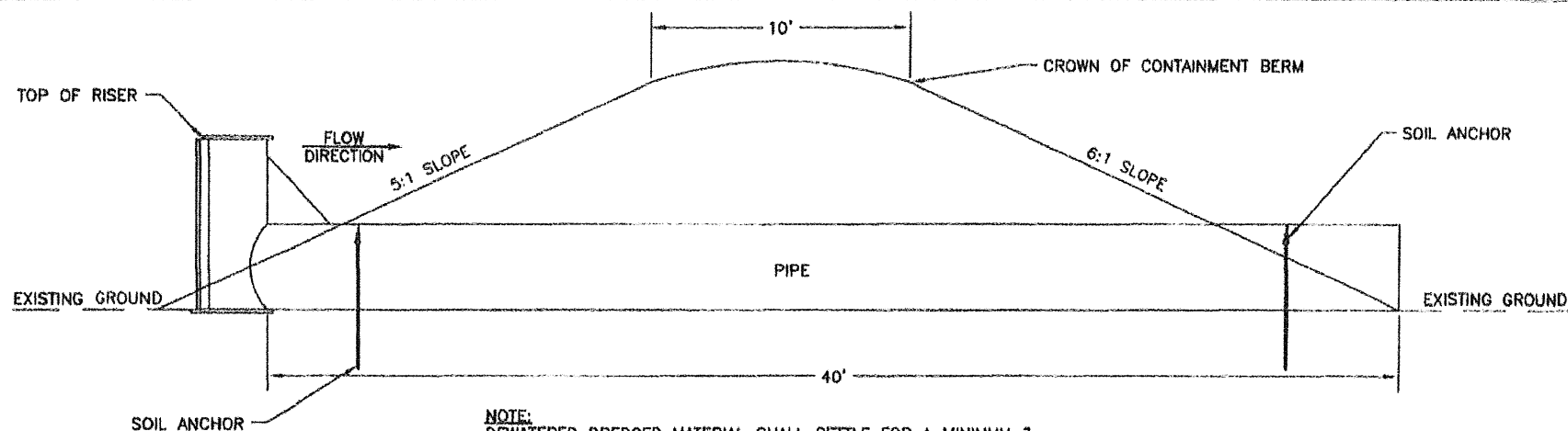


TYPICAL SECTION OF RING LEVEES
NOT TO SCALE



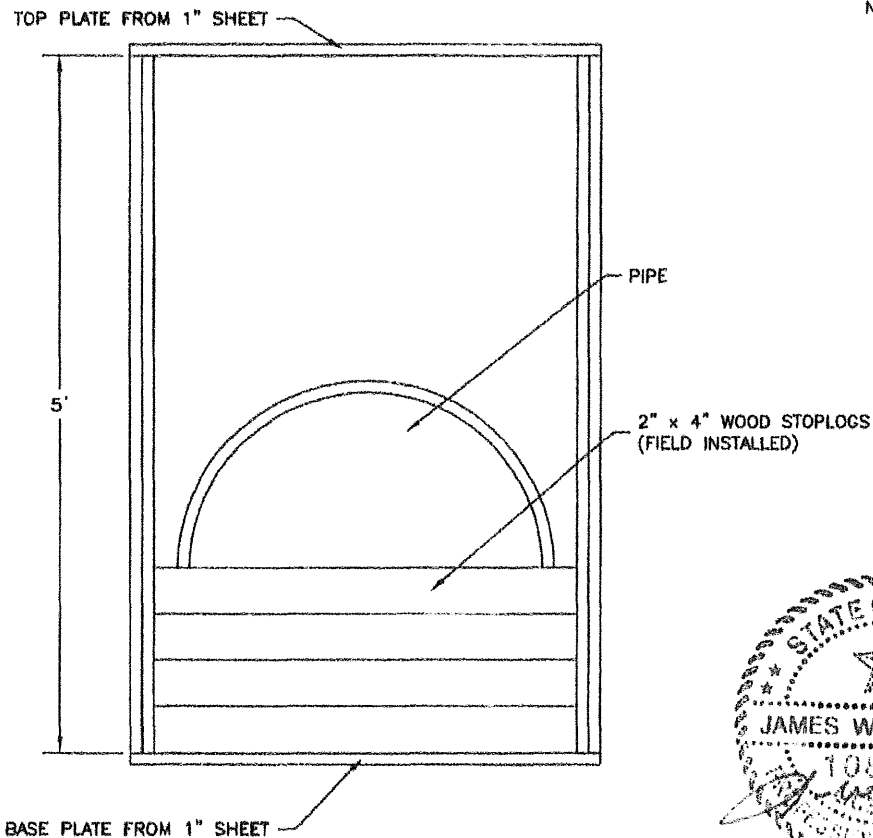
TYPICAL SECTION OF DREDGE PLACEMENT INSIDE OF UNIT
NOT TO SCALE



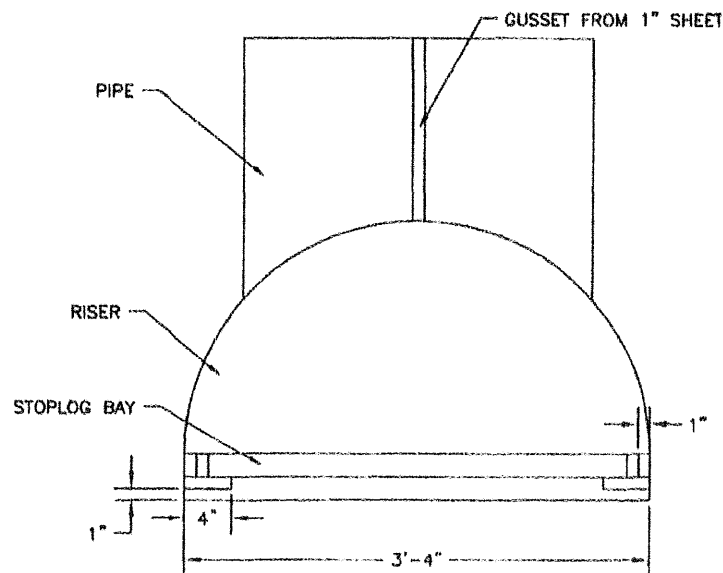


NOTE:
DEWATERED DREDGED MATERIAL SHALL SETTLE FOR A MINIMUM 3
WEEKS PRIOR TO DECANTING WATER CONTROL STRUCTURE REMOVAL.

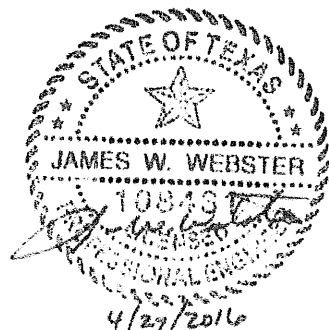
TYPICAL SECTION OF TEMPORARY DECANT STRUCTURE
NOT TO SCALE



FRONT VIEW
NOT TO SCALE



PLAN VIEW
NOT TO SCALE



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PROJECT NO. DU-TX-50-5
LOWER NECHES WMA
RESTORATION
TEMPORARY DECANT STRUCTURE
SHEET 10 OF 10