

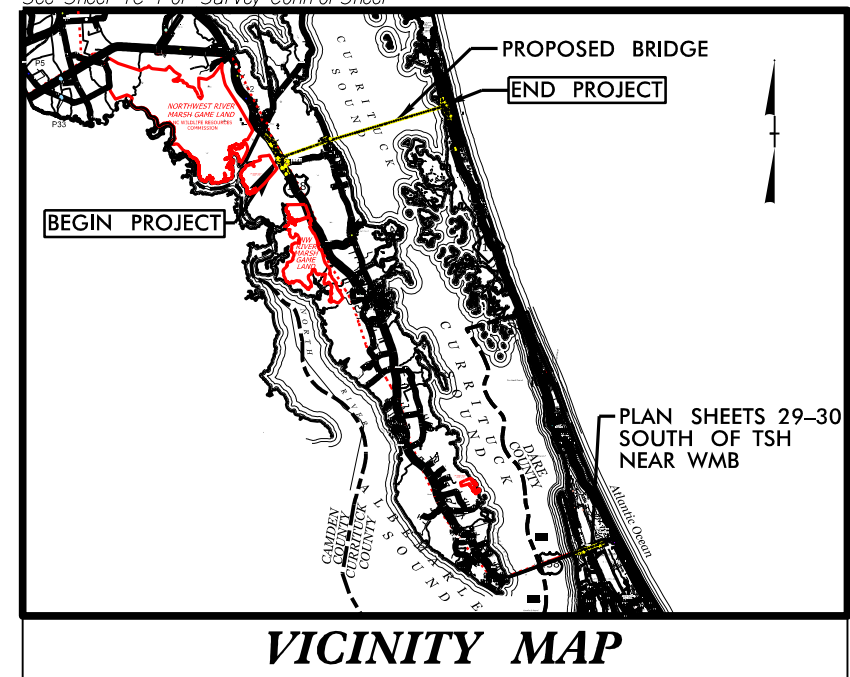
See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols
See Sheet 1C For Survey Control Sheet

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2576	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34470.1.TA1	BRSTP-000(494)	P.E.	

PERMIT DRAWING
SHEET 1 OF 55

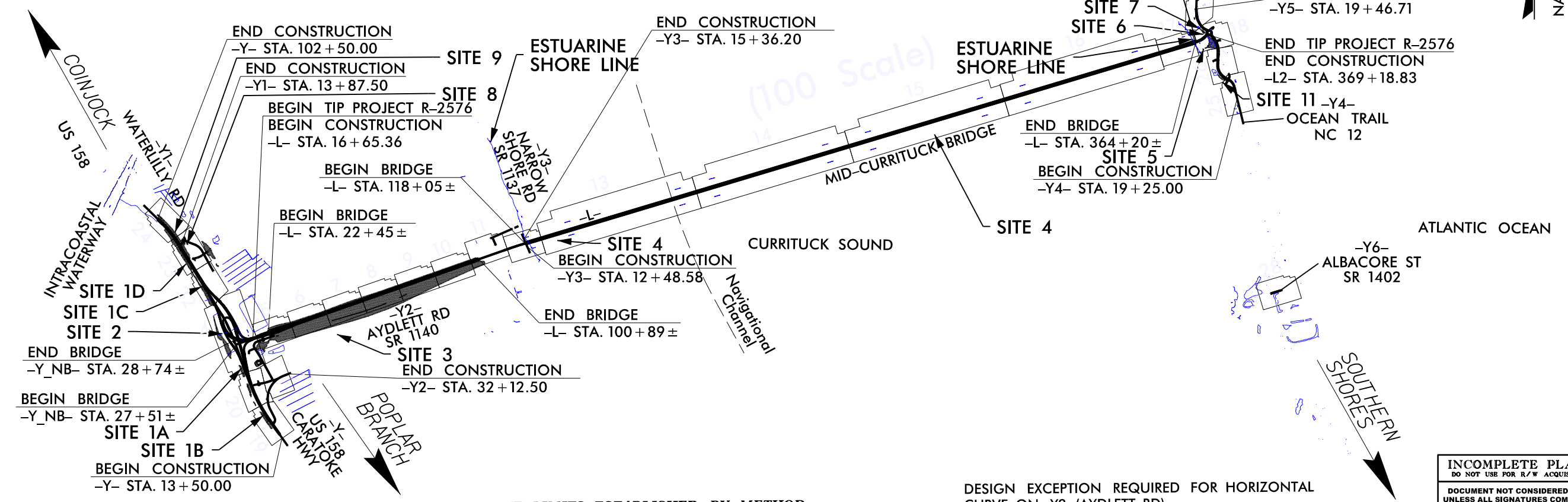
TIP PROJECT: R-2576



LOCATION: MID-CURRITUCK BRIDGE FROM US 158 SOUTH OF COINJOCK
TO NC 12 SOUTH OF COROLLA

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND
STRUCTURES

WETLAND AND SURFACE WATER IMPACTS PERMIT

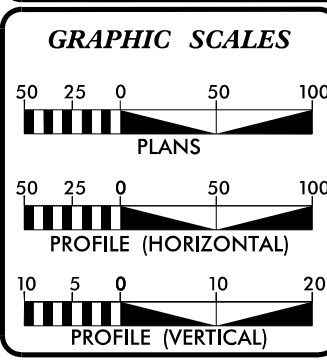


CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD —

DESIGN EXCEPTION REQUIRED FOR HORIZONTAL
CURVE ON Y2 (AYDLETT RD)

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT:



DESIGN DATA	
# ADT 2020 =	11,800
ADT 2040 =	18,000
K =	9 %
D =	60 %
T =	5 % *
V =	60 MPH
* (TTST=1) + (DUAL=2) + (RV=2)	
FUNC CLASS =	ARTERIAL STATEWIDE TIER

PROJECT LENGTH	
LENGTH ROADWAY TIP PROJECT R-2576	=0.524 Miles
LENGTH STRUCTURES	=6.153 Miles
TOTAL LENGTH TIP PROJECT R-2576	=6.677 Miles
# PROJECT LEVEL TRAFFIC FORECAST (JUNE 2016) (SUMMER WEEKEND)	

Prepared In the Office of:

LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
FY 2020

LETTING DATE:
FY 2020

1223 Jones Franklin Rd.
Raleigh, N.C. 27608
License No. 4-13177
Burl: 919 851 8077
Fax: 919 851 8100

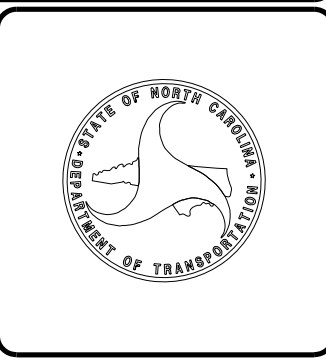
TRANSPORTATION PLANNING DESIGN • BRIDGE/STRUCTURE DESIGN
CIVIL/MECHANICAL DESIGN • CONSTRUCTION OBSERVATION

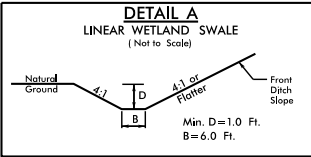
BRIAN K. EASON, PE
PROJECT ENGINEER

CHRISTINA L. YOKEY, PE
PROJECT DESIGN ENGINEER

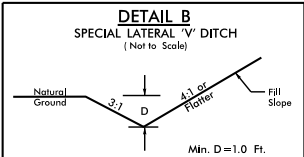
DENNIS JERNIGAN, PE
NCDOT / NCTA

HYDRAULICS ENGINEER	
SIGNATURE: _____	P.E.
ROADWAY DESIGN ENGINEER	
SIGNATURE: _____	P.E.

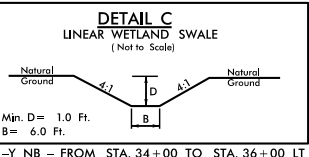




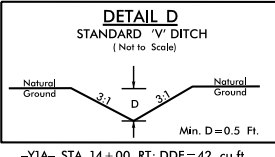
-Y2A- FROM STA. 12+00 TO STA. 16+00 LT
-Y2A- FROM STA. 12+00 TO STA. 17+00 RT
-Y2A- FROM STA. 24+00 TO STA. 25+00 LT
-Y- FROM STA. 22+85 TO STA. 32+50 RT
-Y- FROM STA. 36+00 TO STA. 41+50 RT
-RPD- FROM STA. 10+00 TO STA. 12+00 LT
-RPD- FROM STA. 11+50 TO STA. 13+50 RT
-RPA- FROM STA. 14+50 TO STA. 15+00 RT
-Y NB- FROM STA. 29+75 TO STA. 35+00 RT
-Y NB- FROM STA. 30+66 TO STA. 34+00 LT
-Y NB- FROM STA. 24+50 TO STA. 25+00 RT
-Y2- FROM STA. 16+50 TO STA. 26+00 RT
-Y2- FROM STA. 18+00 TO STA. 25+50 LT
-Y4- FROM STA. 36+00 TO STA. 39+50 LT



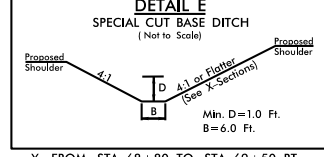
-Y2- FROM STA. 17+00 TO STA. 17+50 LT
-Y2A- FROM STA. 25+00 TO STA. 27+00 LT
-Y2A- FROM STA. 33+00 TO STA. 36+00 RT
-Y- FROM STA. 41+50 TO STA. 43+00 RT
-Y2B- FROM STA. 9+58 RT TO STA. 11+34 LT
-Y NB- FROM STA. 20+00 TO STA. 24+50 RT
-Y NB- FROM STA. 35+00 TO STA. 39+00 RT
-RPD- FROM STA. 10+00 TO STA. 11+50 RT
-Y2- FROM STA. 10+65 TO STA. 15+50 RT
-Y2- FROM STA. 10+85 TO STA. 15+50 LT
-Y2- FROM STA. 25+50 TO STA. 26+10 LT
-Y2- FROM STA. 28+50 TO STA. 31+75 LT
-Y2B- FROM STA. 12+00 TO STA. 16+44 RT
-Y2B- FROM STA. 12+00 TO STA. 16+00 LT
-Y1A- FROM STA. 10+50 TO STA. 13+85 LT
-Y1A- FROM STA. 10+50 TO STA. 14+00 RT
-Y1A- FROM STA. 18+00 TO STA. 19+00 LT



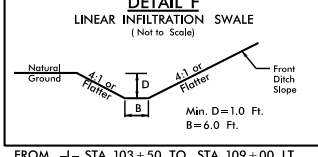
-Y NB- FROM STA. 34+00 TO STA. 36+00 LT
-Y NB- FROM STA. 38+50 TO STA. 41+50 LT



-Y1A- STA. 14+00 RT; DDE=42 cu.ft.
-Y1A- STA. 16+58 LT; DDE=185 cu.ft.
-Y1A- STA. 16+66 RT; DDE=60 cu.ft.
-Y1A- STA. 19+00 RT; DDE=94 cu.ft.



-Y- FROM STA. 68+80 TO STA. 69+50 RT



FROM -L- STA. 103+50 TO STA. 109+00 LT
FROM -L- STA. 103+50 TO STA. 109+50 RT

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111



TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

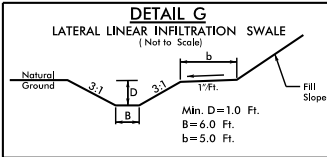
NC License
Number F-0159
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

PROJECT REFERENCE NO.	SHEET NO.
R-2576	2D-1
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

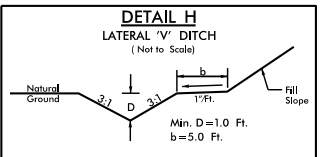
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

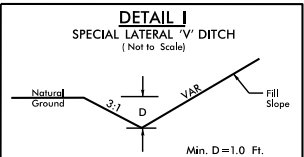
PERMIT DRAWING
SHEET 2 OF 55



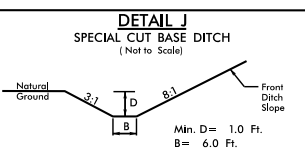
FROM -L- STA. 109+00 TO STA. 110+50 LT
FROM -L- STA. 109+50 TO STA. 110+50 RT



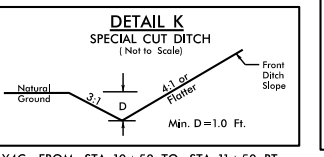
FROM -L- STA. 112+00 TO STA. 116+00 LT



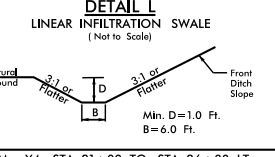
-Y- FROM STA. 70+50 TO STA. 72+50 RT



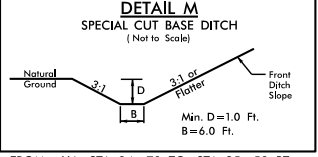
-Y- FROM STA. 72+50 TO STA. 84+50 RT



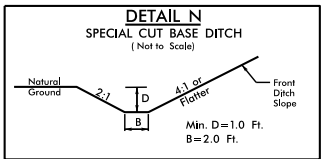
-Y4C- FROM STA. 10+50 TO STA. 11+50 RT
-Y4C- FROM STA. 10+50 TO STA. 11+50 LT
-Y- FROM STA. 15+00 TO STA. 16+00 RT
-Y2B- FROM STA. 10+75 LT TO STA. 11+50 RT
-Y7- FROM STA. 51+30 TO STA. 52+30 LT
-Y7- FROM STA. 58+27 TO STA. 59+50 LT



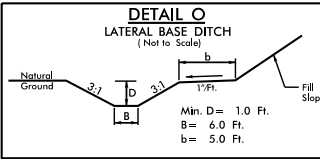
FROM -Y4- STA. 21+00 TO STA. 26+00 LT
FROM -Y4- STA. 20+50 TO STA. 22+50 RT
-Y5- FROM STA. 10+28 TO STA. 19+00 RT
-Y5R- FROM STA. 11+60 TO STA. 13+10 RT



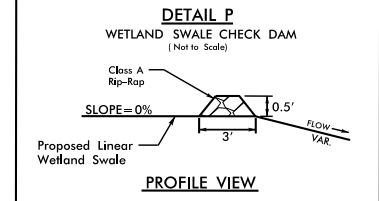
FROM -Y4- STA. 24+70 TO STA. 25+50 RT
FROM -Y4- STA. 30+50 TO STA. 32+50 RT
FROM -Y4- STA. 37+00 TO STA. 37+50 RT
FROM -Y4- STA. 39+50 TO STA. 42+50 RT



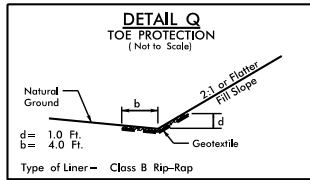
-Y- FROM STA. 32+50 TO STA. 33+00 RT



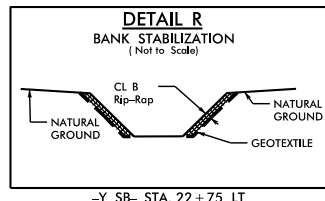
FROM -L- STA. 113+00 TO STA. 114+50 RT



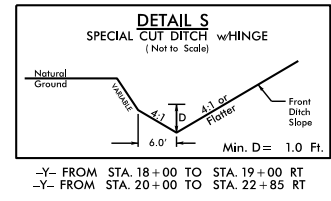
PROPOSED LINEAR WETLAND SWALE



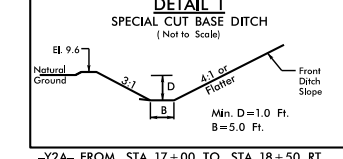
Type of Liner - Class B Rip-Rap
-Y- FROM STA. 21+77 TO STA. 23+70 LT
-Y- FROM STA. 40+83 TO STA. 42+54 LT
-Y- FROM STA. 84+63 TO STA. 90+06 RT
-Y- FROM STA. 91+24 TO STA. 99+89 RT
-Y- FROM STA. 94+20 TO STA. 98+11 LT
-Y1A- FROM STA. 24+37 TO STA. 24+57 LT
-Y1A- FROM STA. 24+59 TO STA. 24+92 RT



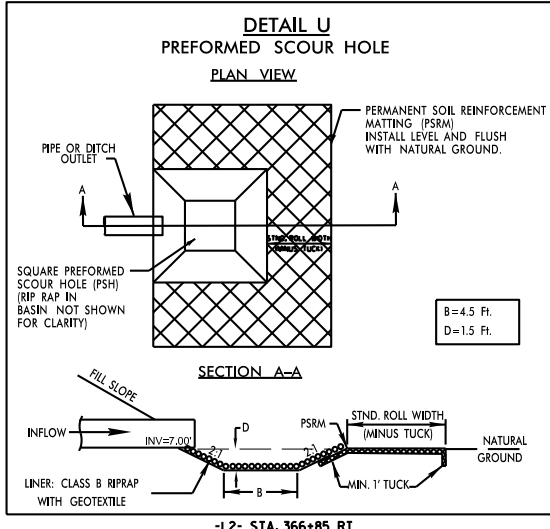
-Y SB- STA. 22+75 LT



-Y- FROM STA. 18+00 TO STA. 19+00 RT
-Y- FROM STA. 20+00 TO STA. 22+85 RT



-Y2A- FROM STA. 17+00 TO STA. 18+50 RT

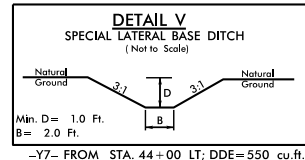


SECTION A-A

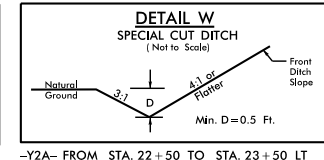


-Y7- FROM STA. 44+00 LT; DDE=550 cu.ft.

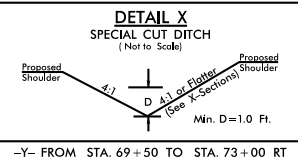
-Y2A- STA. 12+50 LT
-Y2A- STA. 13+00 RT
-Y2A- STA. 15+00 LT
-Y2A- STA. 15+00 RT
-Y2A- STA. 16+00 LT
-Y2A- STA. 16+50 RT
-Y2- STA. 18+50 RT
-Y2- STA. 22+00 LT
-Y2- STA. 22+50 RT
-Y2- STA. 23+00 LT
-Y2- STA. 24+50 RT
-Y2- STA. 25+50 LT
-Y- STA. 23+40 RT
-Y- STA. 28+75 RT
-Y- STA. 32+50 RT
-Y- STA. 34+00 RT
-Y- STA. 41+00 RT
-Y NB- STA. 31+50 LT
-Y NB- STA. 32+00 RT
-Y NB- STA. 32+50 LT
-Y NB- STA. 33+00 RT
-Y NB- STA. 40+00 LT
-Y NB- STA. 40+50 LT
-Y4- STA. 21+00 RT
-Y4- STA. 37+45 LT
-Y4- STA. 38+00 LT
-Y5- STA. 10+70 RT
-Y5- STA. 11+50 RT
-Y5- STA. 12+50 RT
-Y5- STA. 13+50 RT
-Y5- STA. 14+50 RT
-Y5R- STA. 12+70 RT



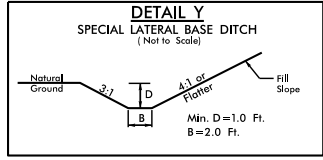
-Y7- FROM STA. 44+00 LT; DDE=550 cu.ft.



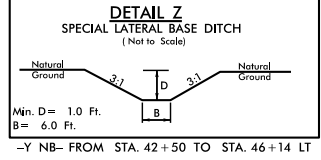
-Y2A- FROM STA. 22+50 TO STA. 23+50 LT



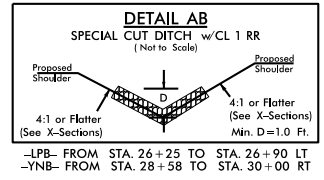
-Y- FROM STA. 69+50 TO STA. 73+00 RT



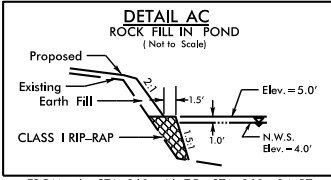
-Y2- FROM STA. 26+00 TO STA. 31+75 RT
-Y2A- FROM STA. 16+00 TO STA. 17+00 LT



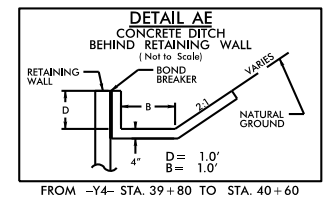
-Y NB- FROM STA. 42+50 TO STA. 46+14 LT



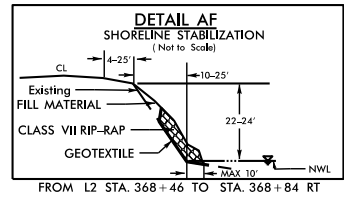
-LPB- FROM STA. 26+25 TO STA. 26+90 LT
-YNB- FROM STA. 28+58 TO STA. 30+00 RT



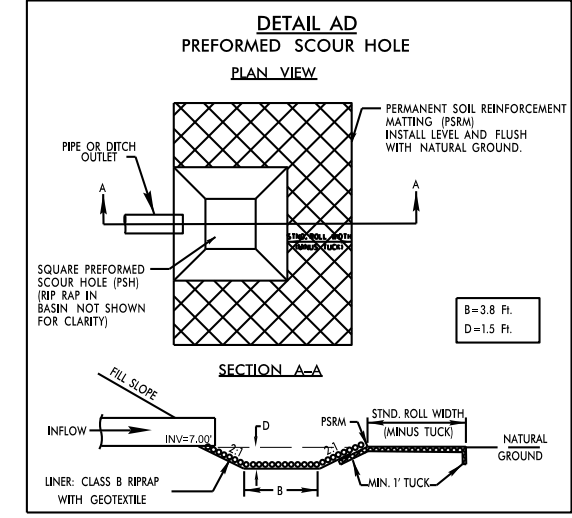
FROM -L- STA. 368+46 TO STA. 368+84 RT
FROM -Y4- STA. 41+52 TO STA. 42+77 LT



FROM -Y4- STA. 39+80 TO STA. 40+60



FROM L2 STA. 368+46 TO STA. 368+84 RT

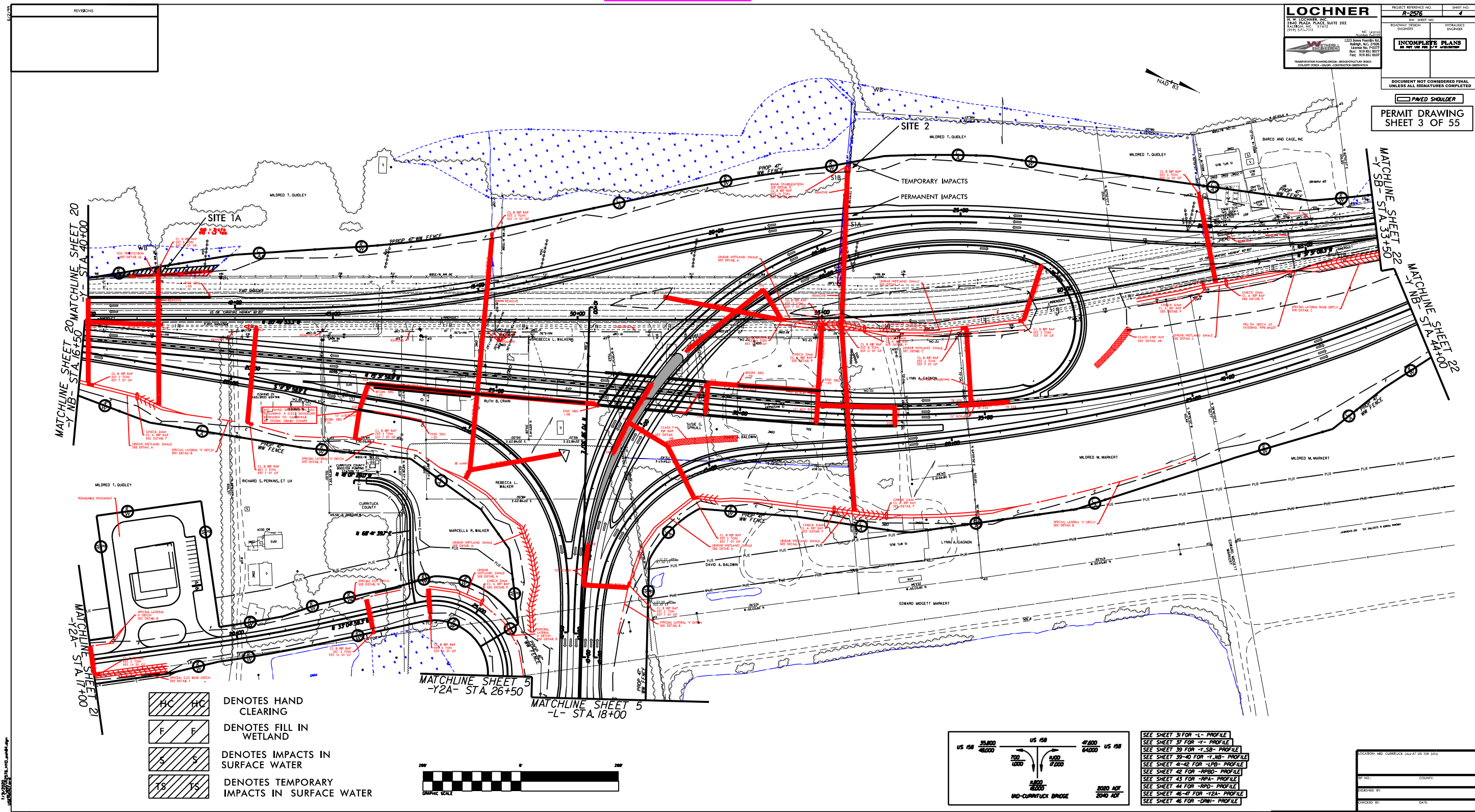


SECTION A-A

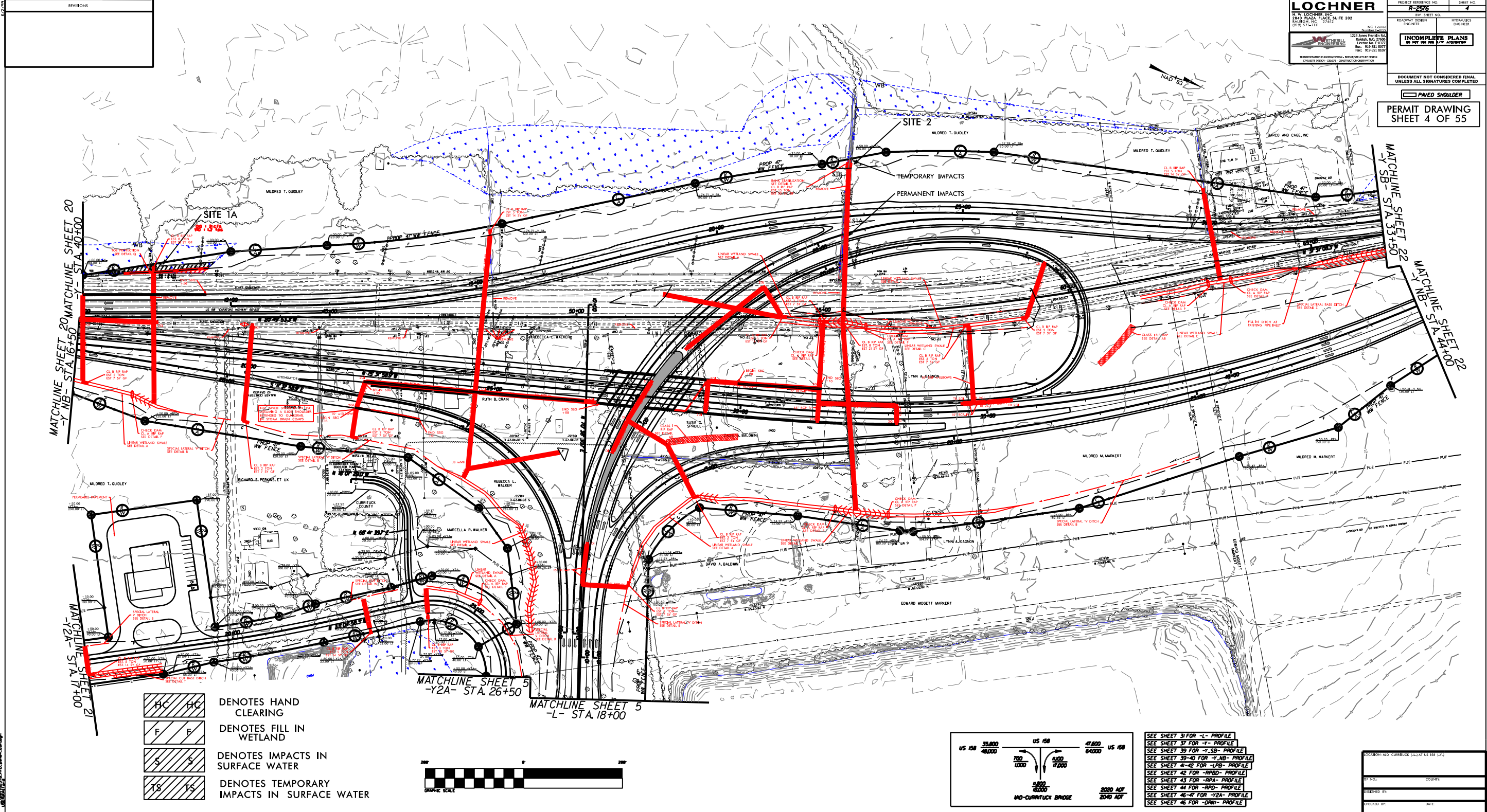


-L STA. 19+65 LT

Prepared 8/4/2020

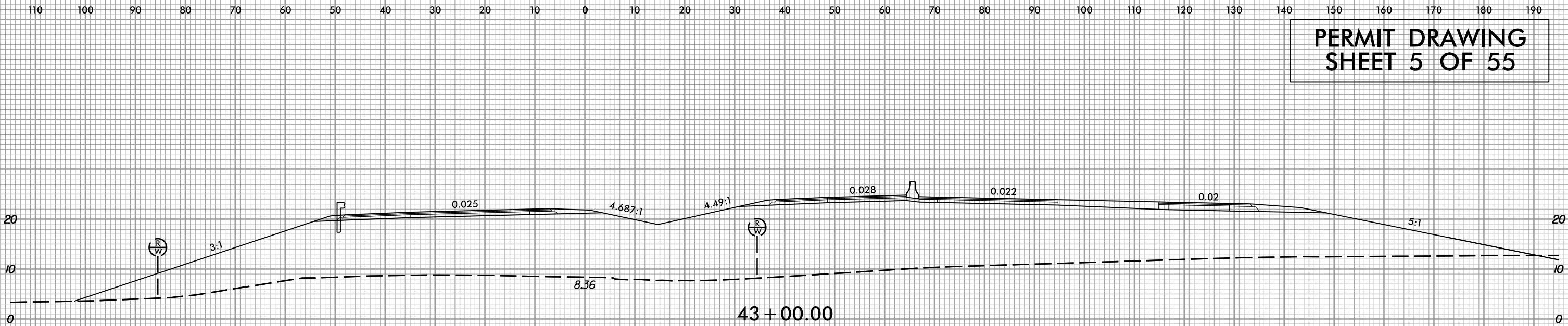


Prepared 8/4/2020

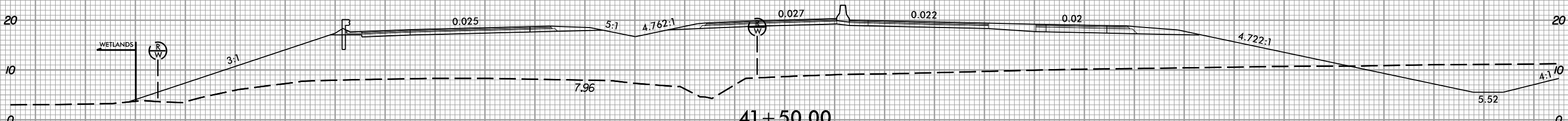
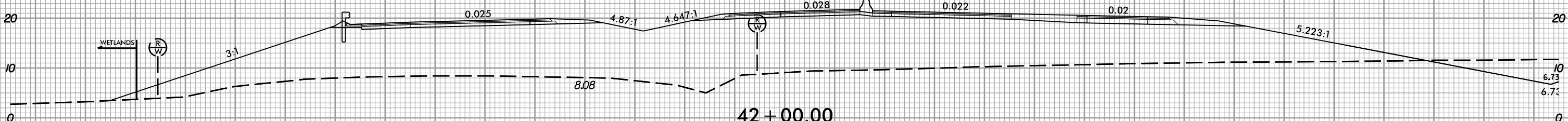
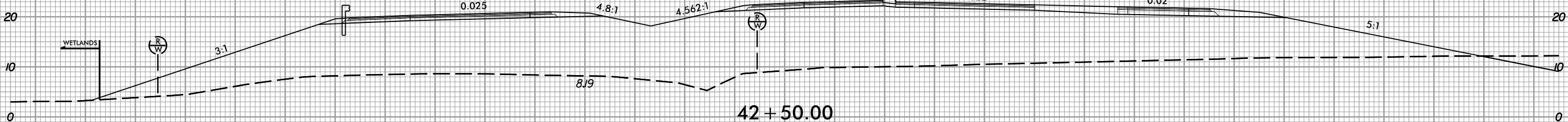


6/23/16

PERMIT DRAWING
SHEET 5 OF 55



SITE 1A



-Y-

STATES
SUSAN
SPILERS

+ 00.00 -Y-
133.00' LT



TOE PROTECTION
SEE DETAIL Q

+ 00.00 ΔY
85.50' LT

$$\frac{Q_{10}}{V_{10}} = \frac{21 \text{ cfs}}{1.2 \text{ fps}}$$

~~END SBG~~
~~+ 50~~

REMOVE

DENOTES HAND
CLEARING

DENOTES FILL IN WETLAND

~~HC~~ ~~HC~~

F

PERMIT DRAWING
SHEET 7 OF 55

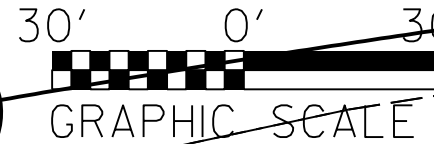
Prepared 8/4/2020

SITE 2

MILDRED T. QUIDLEY

DENOTES IMPACTS IN
SURFACE WATER

DENOTES TEMPORARY
IMPACTS IN SURFACE WATER



BANK STABILIZATION
SEE DETAIL R
CL. B RIP RAP
EST. 15 TON
EST 32 SY GF

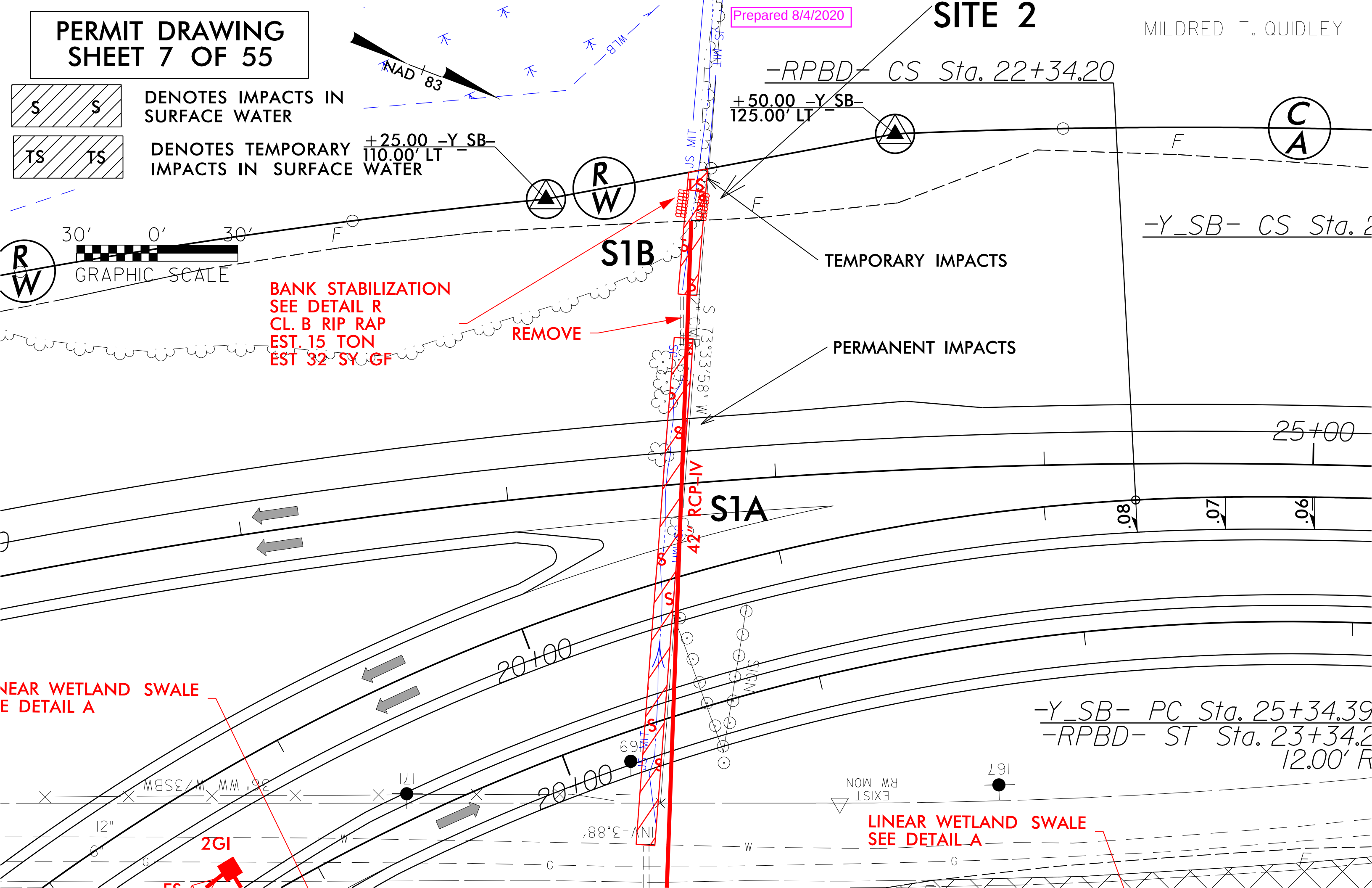
REMOVE

TEMPORARY IMPACTS

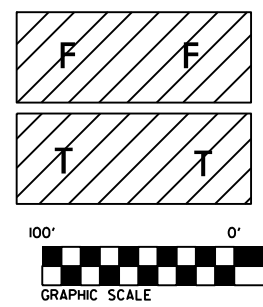
PERMANENT IMPACTS

NEAR WETLAND SWALE
SEE DETAIL A

LINEAR WETLAND SWALE
SEE DETAIL A



6/2/2020 7:31/2020 1556210576.HYD_psh05.dgn



DENOTES FILL IN WETLAND (AT BENTS)
DENOTES TEMPORARY FILL IN WETLAND (MATTING)

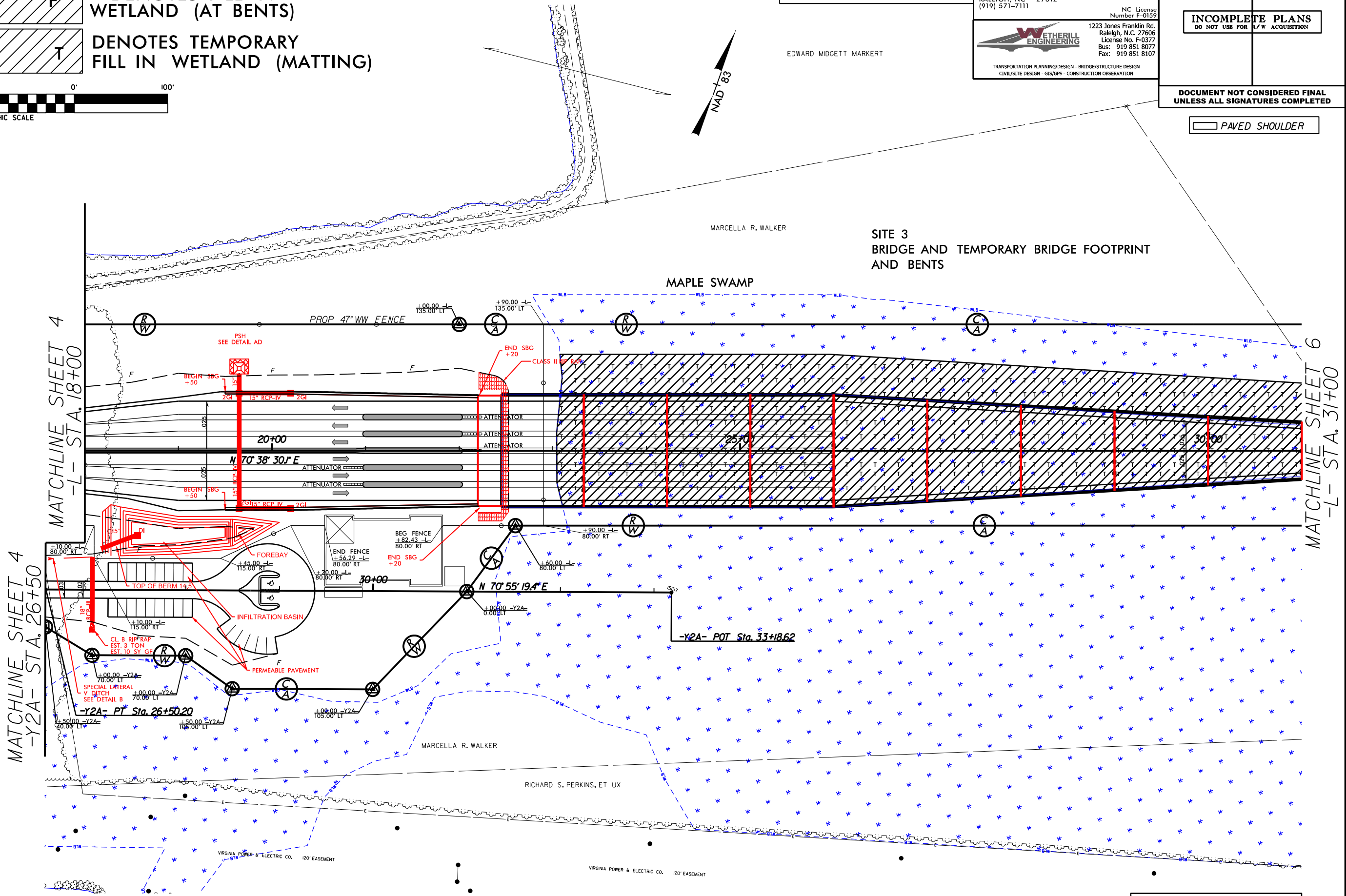
Prepared 8/4/2020

PERMIT DRAWING
SHEET 8 OF 55

LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 371-7111
NC License Number F-0159

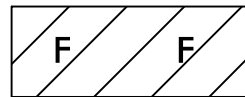
WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576		SHEET NO. 5
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
PAVED SHOULDER		

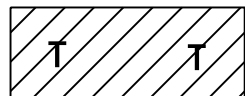


SEE SHEET 31 FOR -L- PROFILE
SEE SHEET 47 FOR -Y2A- PROFILE

6/2/2019 7:31/2020 1556241000 0576_HYD_psh06.dgn



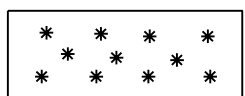
DENOTES FILL IN WETLAND (AT BENTS)



DENOTES TEMPORARY FILL IN WETLAND (MATTING, CONT AT TEMP BENTS WHEN MATTING ENDS NEXT TO BRIDGE)

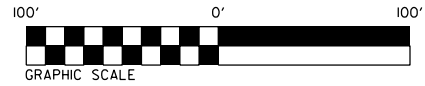


DENOTES HAND CLEARING



DENOTES MECHANIZED CLEARING

Prepared 8/4/2020

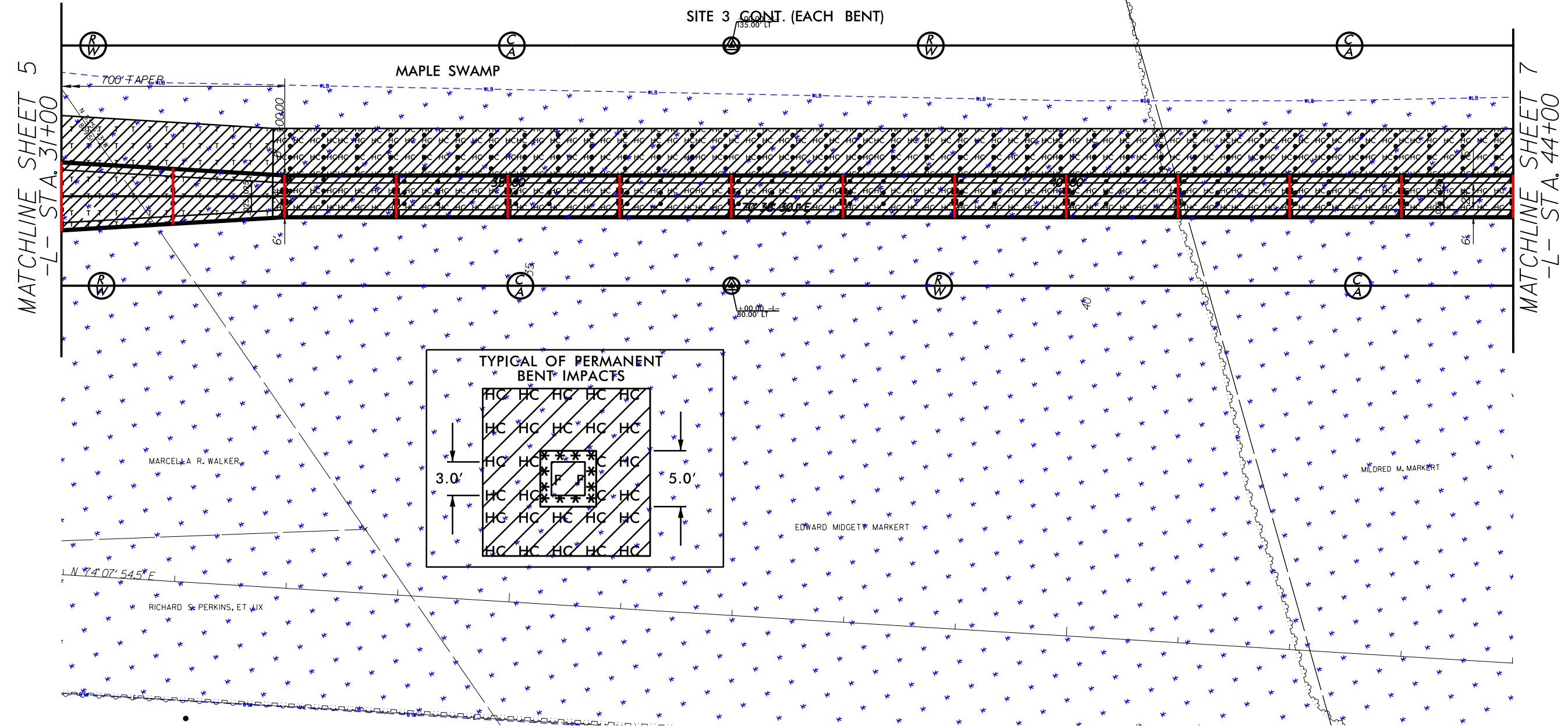


PERMIT DRAWING
SHEET 10 OF 55

LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 371-7111
NC License Number F-0159

1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

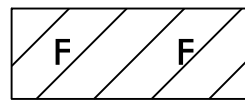
PROJECT REFERENCE NO. R-2576		SHEET NO. 6	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
PAVED SHOULDER			



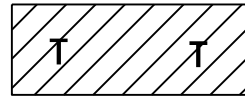
SEE SHEET 32 FOR -L- PROFILE

6/2/2009

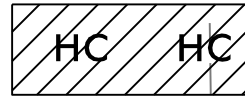
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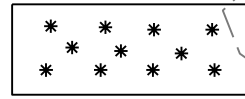
DENOTES FILL IN WETLAND (AT BENTS)



DENOTES TEMPORARY FILL IN WETLAND (MATTING, CONT AT TEMP BENTS WHEN MATTING ENDS NEXT TO BRIDGE)

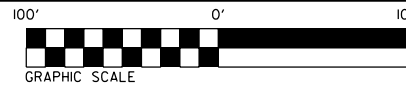


DENOTES HAND CLEARING



DENOTES MECHANIZED CLEARING

Prepared 8/4/2020



PERMIT DRAWING
SHEET 11 OF 55

LOCHNER

H. W. LOCHNER, INC.
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(919) 371-7111

NC License
Number F-0159



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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

R-2576

6

ROADWAY DESIGN
ENGINEER

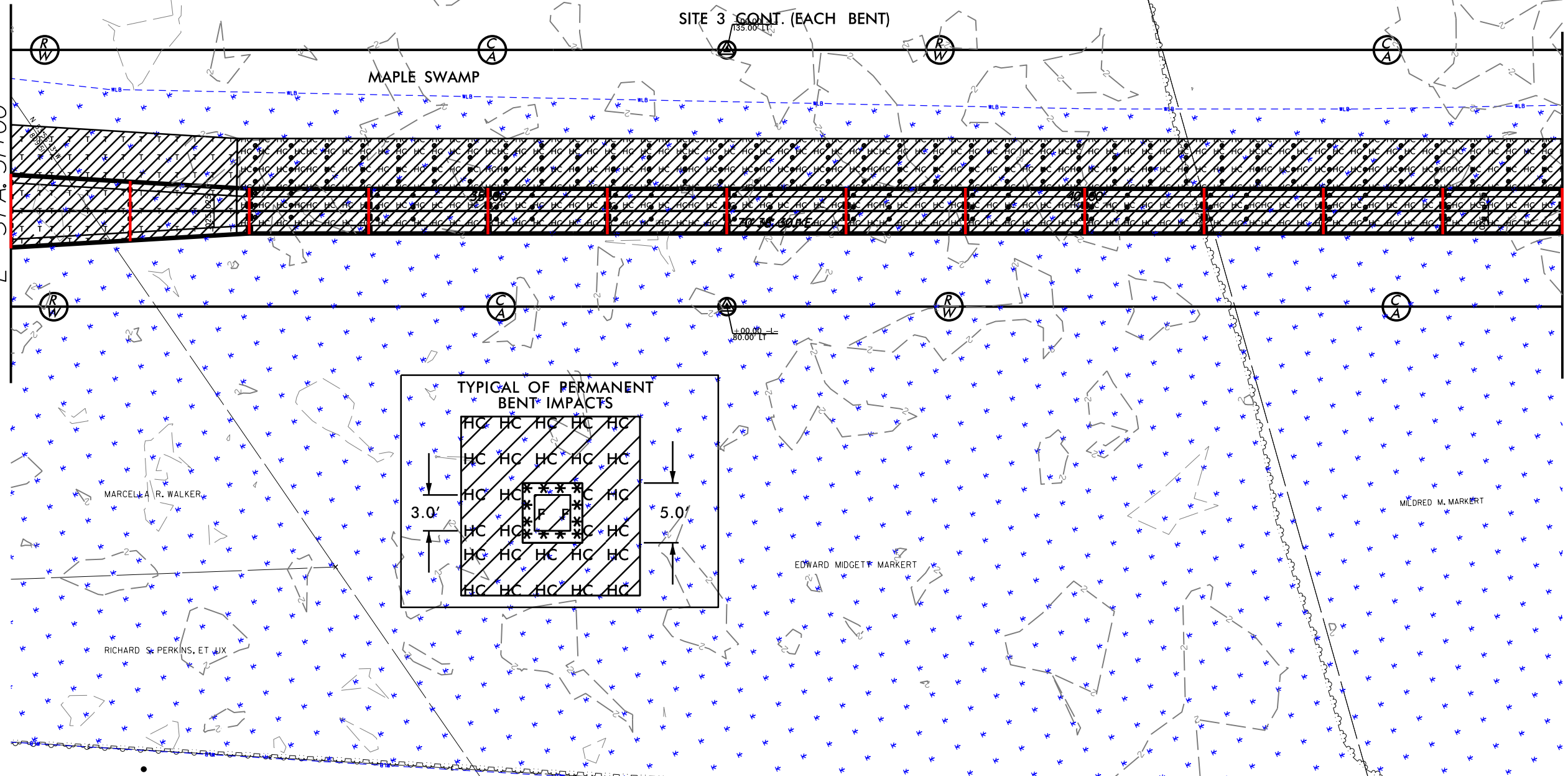
PAVEMENT DESIGN
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PAVED SHOULDER

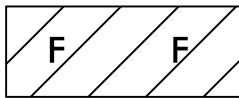
MATCHLINE SHEET 5
-L- STA. 31+00



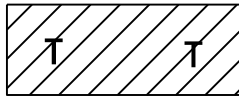
MATCHLINE SHEET 7
-L- STA. 44+00

SEE SHEET 32 FOR -L- PROFILE

6/22/99
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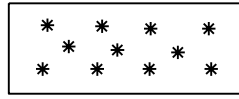
DENOTES FILL IN WETLAND (AT BENTS)



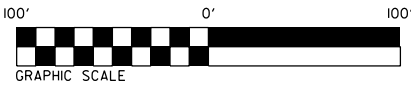
DENOTES TEMPORARY FILL IN WETLAND (MATTING, CONT AT TEMP BENTS WHEN MATTING ENDS NEXT TO BRIDGE)



DENOTES HAND CLEARING



DENOTES MECHANIZED CLEARING



Prepared 8/4/2020

PERMIT DRAWING
SHEET 12 OF 55

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 371-7111

NC License
Number F-0159



1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

10

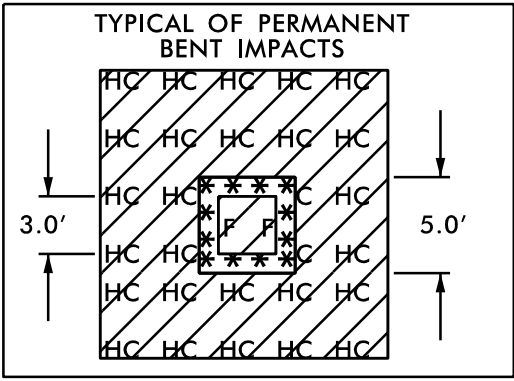
ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR A/W ACQUISITION

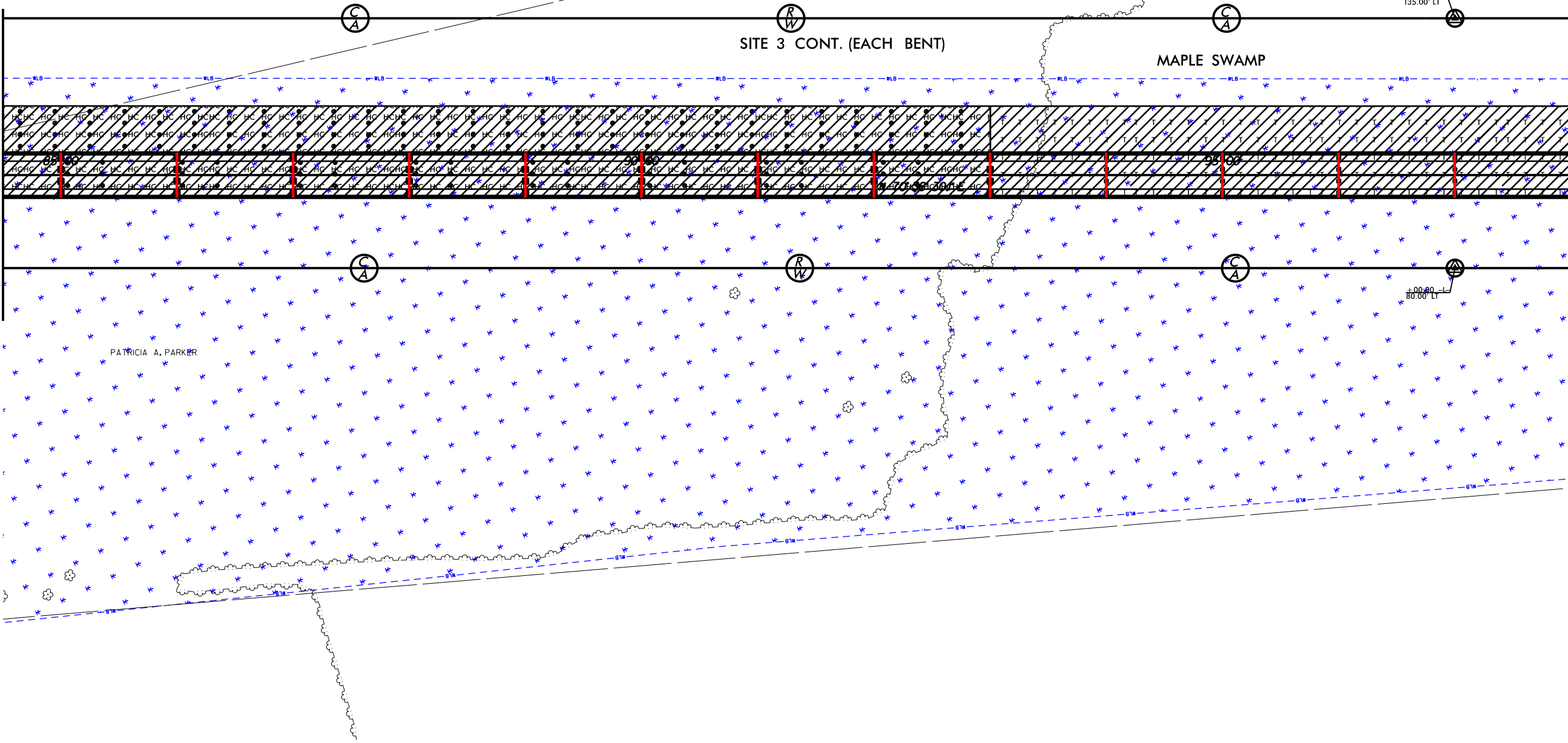
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

PAVED SHOULDER



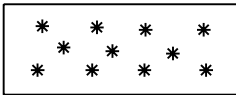
J. W. JONES LUMBER CO., INC

MATCHLINE SHEET 9
-L- STA. 84+50



MATCHLINE SHEET 11
-L- STA. 98+00

SEE SHEET 34 FOR -L- PROFILE



DENOTES MECHANIZED
CLEARING



TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

☐ PAVED SHOULDER

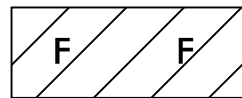


ATCHLINE SHEET
-L- STA. 98+00

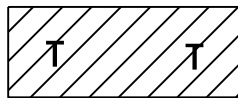
PATRICIA A. PARKER

MAPLE SWAMP

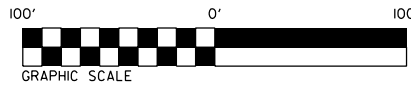
SEE SHEET 34 FOR -L- PROFILE



DENOTES FILL IN WETLAND (AT BENTS)



DENOTES TEMPORARY FILL IN WETLAND (MATTING)



Prepared 8/4/2020



PERMIT DRAWING
SHEET 14 OF 55

LOCHNER

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2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 371-7111

NC License
Number F-0159



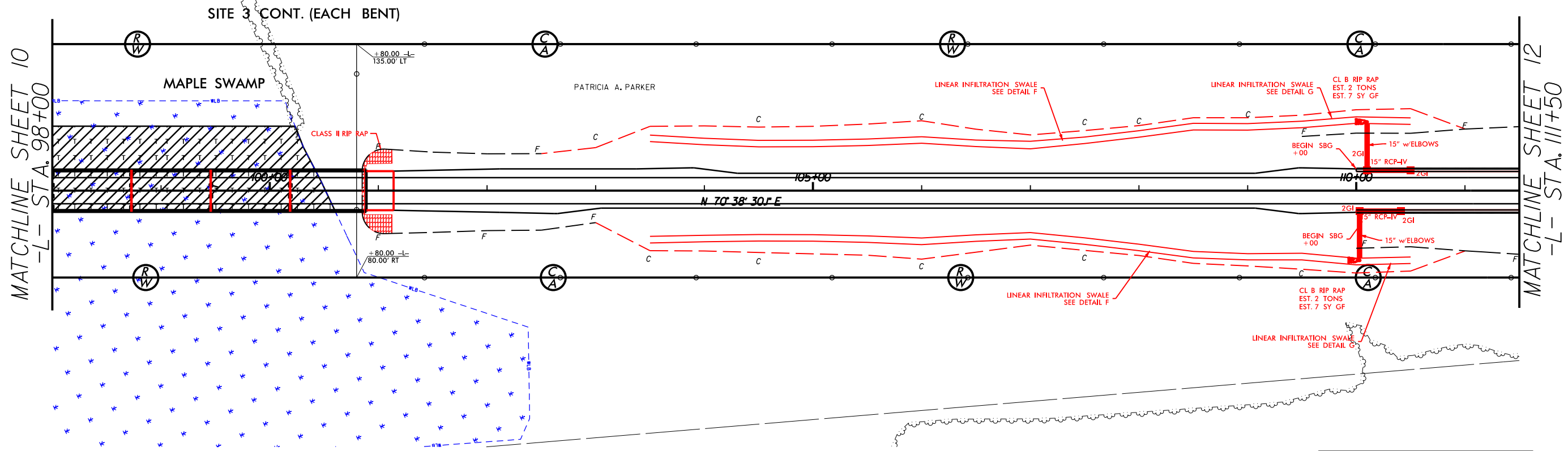
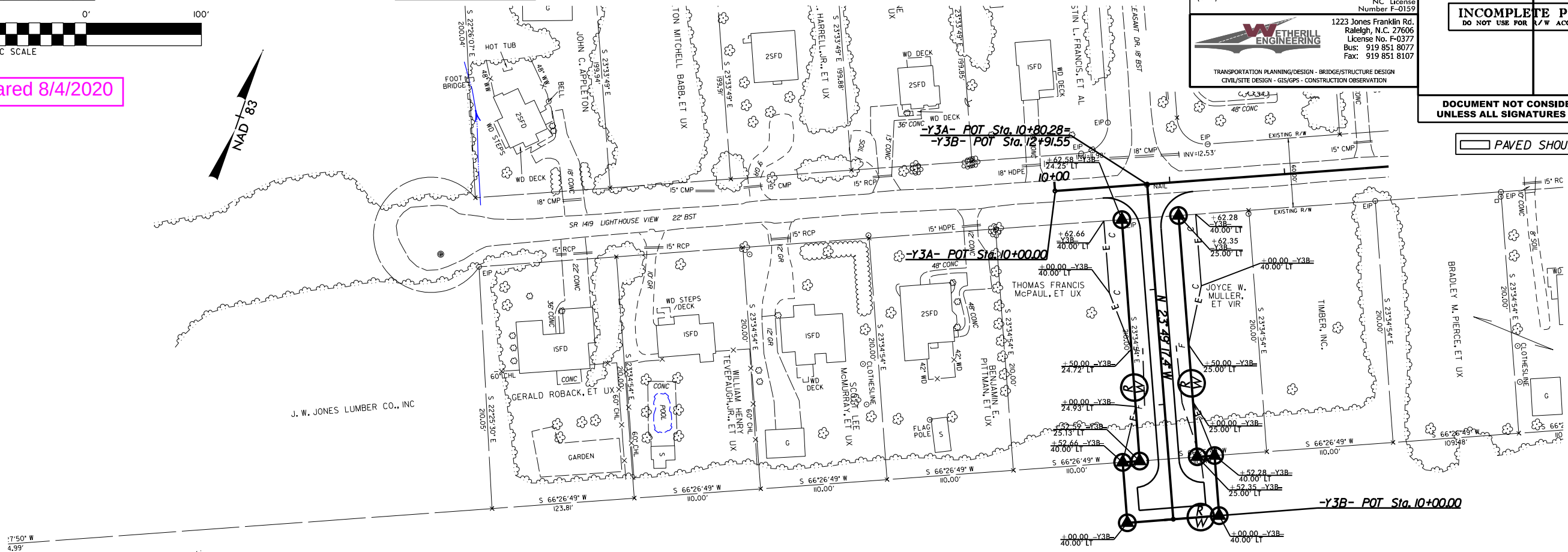
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

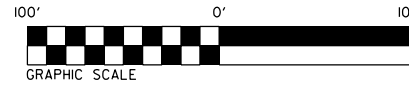
PROJECT REFERENCE NO.		SHEET NO.	
R-2576		11	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
		INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

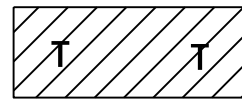
PAVED SHOULDER



SEE SHEET 47 FOR -Y3B- PROFILE
SEE SHEET 34 FOR -L- PROFILE



**DENOTES FILL IN
WETLAND (AT BENTS)**



DENOTES TEMPORARY
FILL IN WETLAND (MATTING)

PERMIT DRAWING
SHEET 15 OF 55

LOCHNER

1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

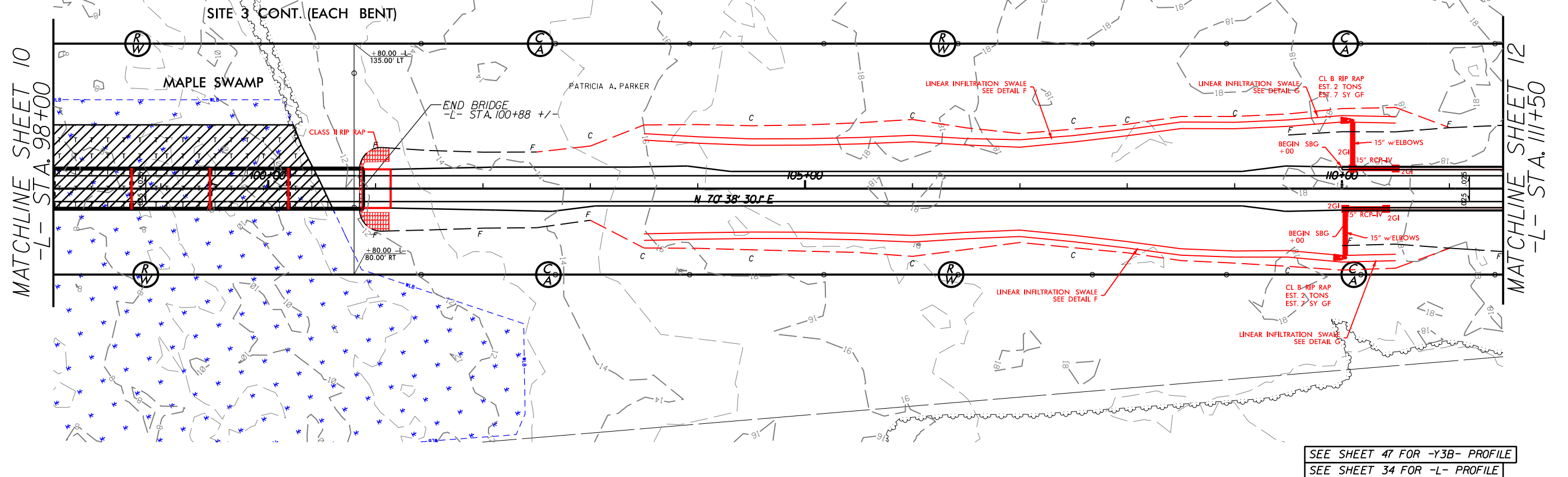
R-2576

VEHICLE DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

 PAVED SHOULDER



6/2/2009

8/3/2020
11:58:10
R-2576-HYD_psh12.dgn



DENOTES TEMPORARY
IMPACTS IN SURFACE WATER
(AT BENTS)



DENOTES IMPACTS IN
SURFACE WATER
(AT BENTS AND
SHORELINE STABILIZATION)

PERMIT DRAWING
SHEET 16 OF 55

Prepared 8/4/2020

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 371-7111

NC License
Number F-0159



1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

12

ROADWAY DESIGN
ENGINEER

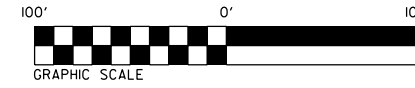
PAVEMENT DESIGN
ENGINEER

INCOMPLETE PLANS

DO NOT USE FOR A/W ACQUISITION

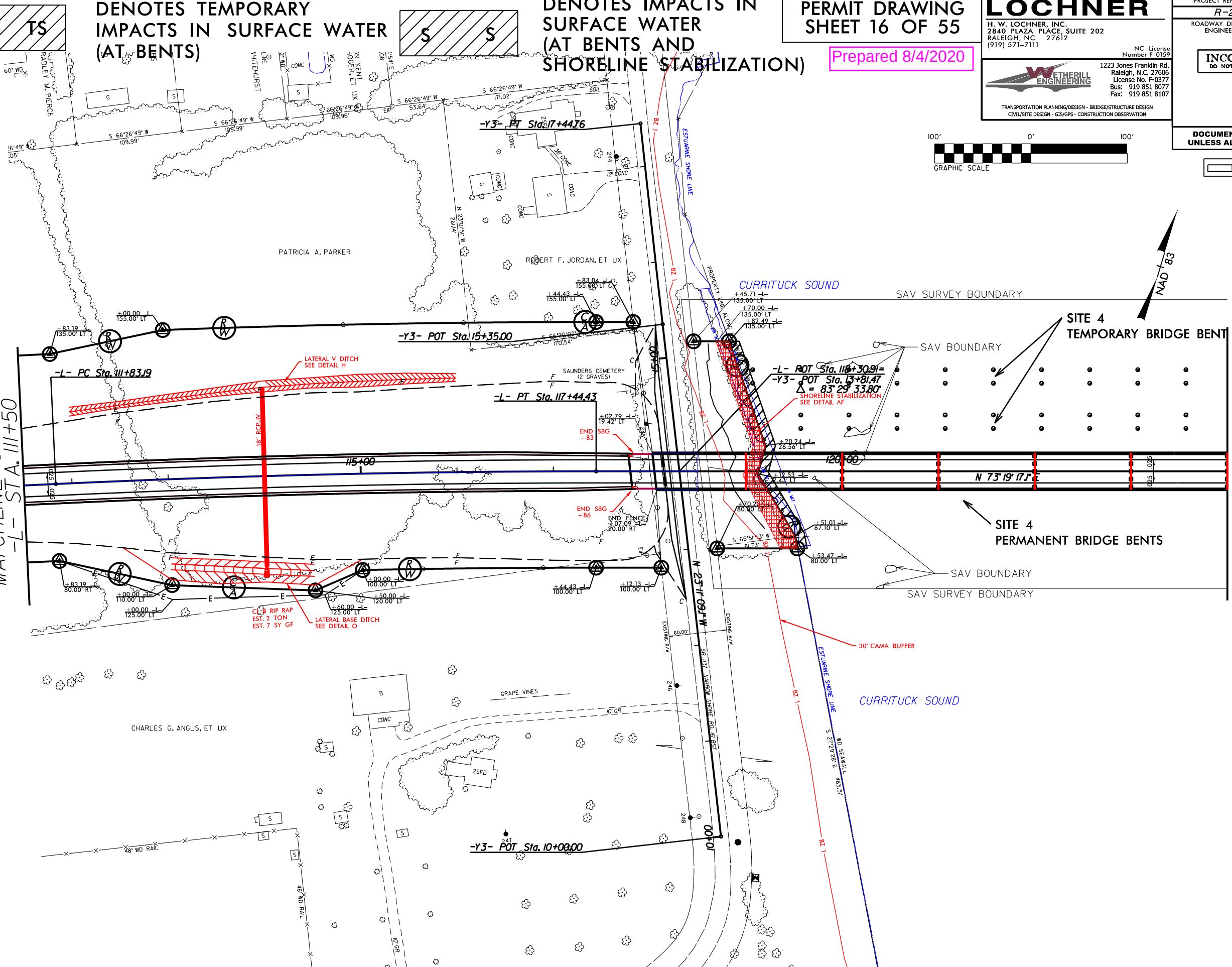
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UNLESS ALL SIGNATURES COMPLETED**

PAVED SHOULDER



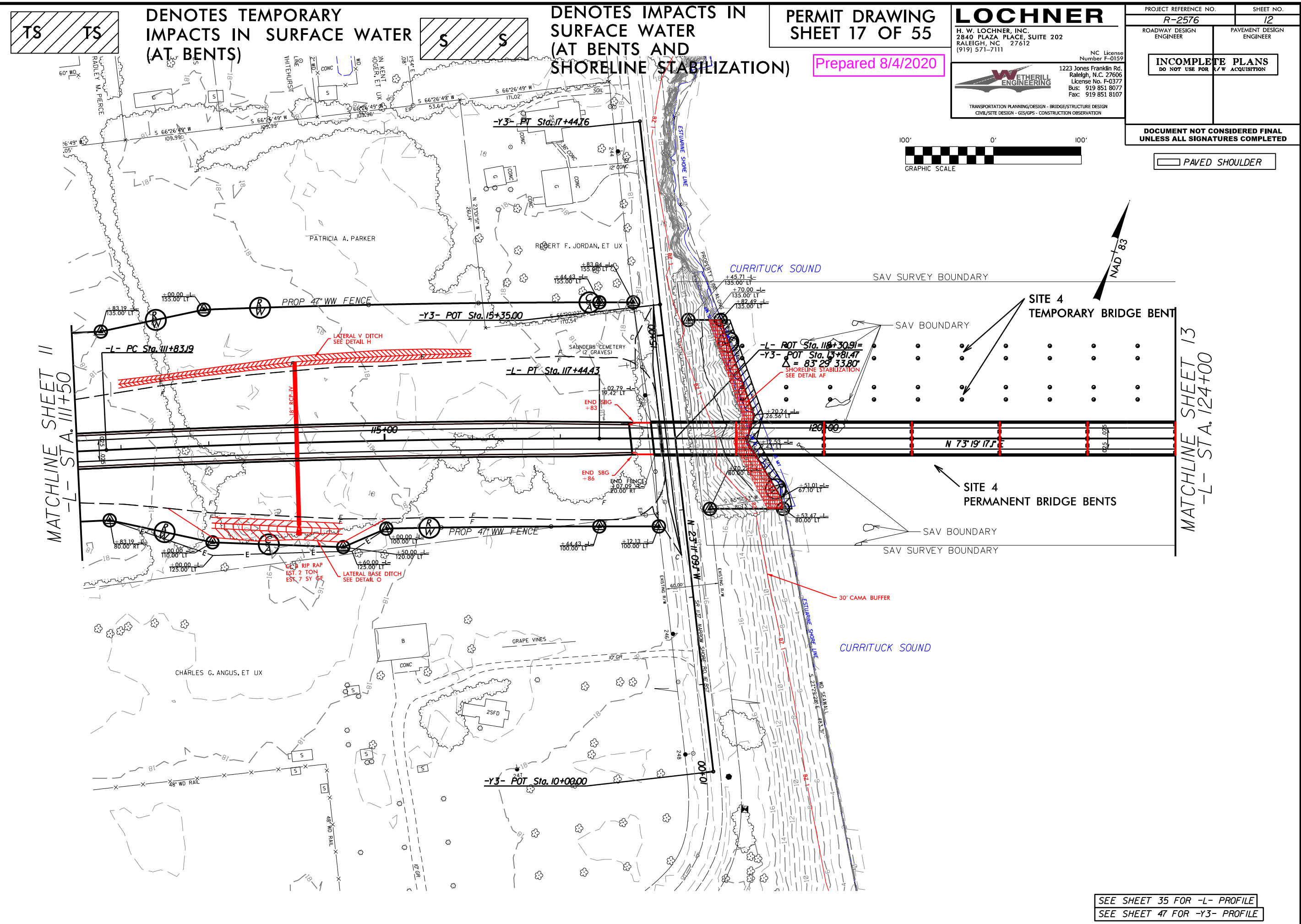
MATCHLINE SHEET 11
-L- STA. 111+50

MATCHLINE SHEET 13
-L- STA. 124+00



SEE SHEET 35 FOR -L- PROFILE
SEE SHEET 47 FOR -Y3- PROFILE

6/2/2020 8/3/2020 11:56:10 AM 20576.HYD_psh12.dgn



TS

TS

DENOTES TEMPORARY IMPACTS IN SURFACE WATER (AT BENTS)

S

S

DENOTES IMPACTS IN SURFACE WATER (AT BENTS AND SHORELINE STABILIZATION)

PERMIT DRAWING
SHEET 17 OF 55

Prepared 8/4/2020

LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 371-7111

NC License
Number F-0159

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.
R-2576

SHEET NO.
12

ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

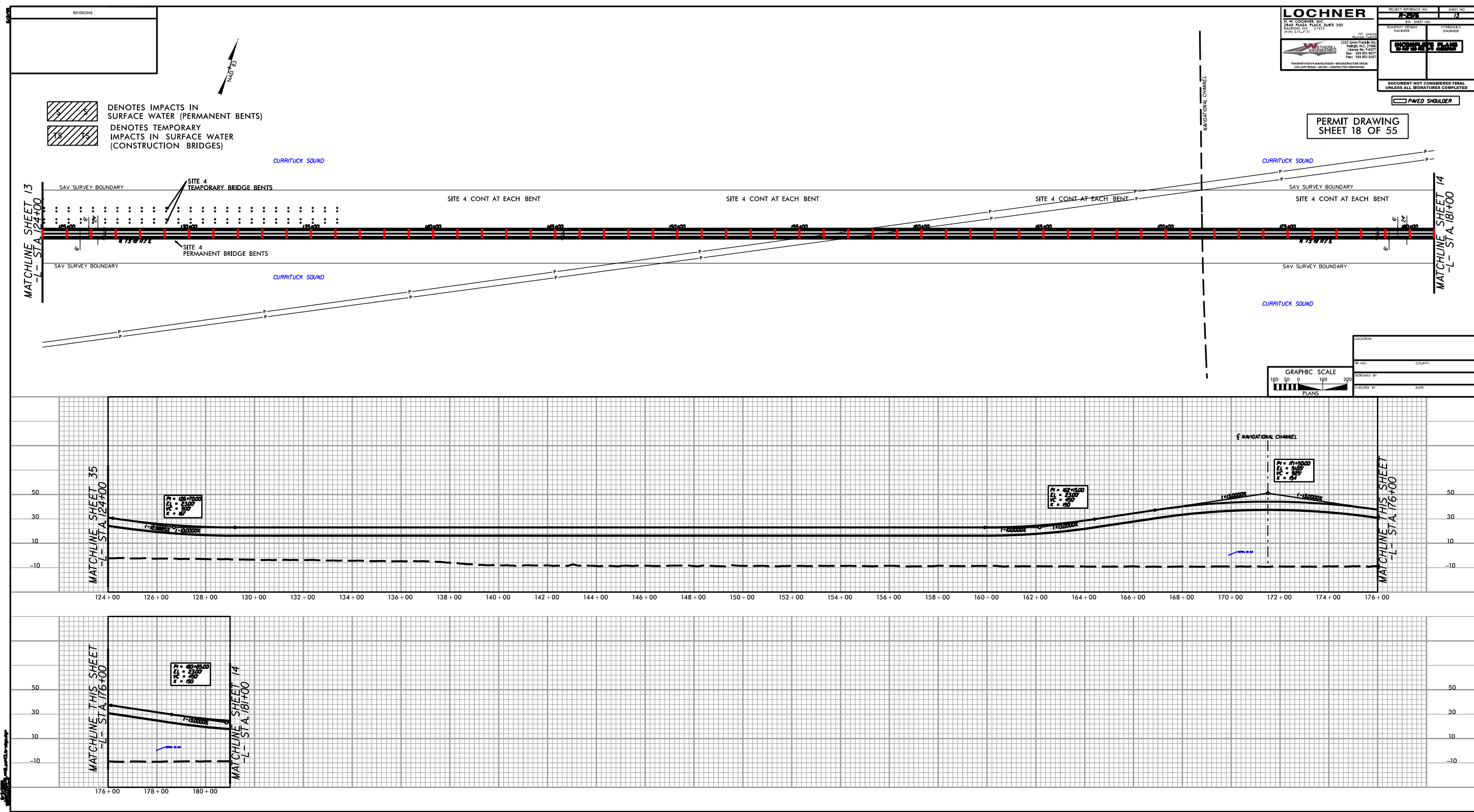
INCOMPLETE PLANS
DO NOT USE FOR A/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

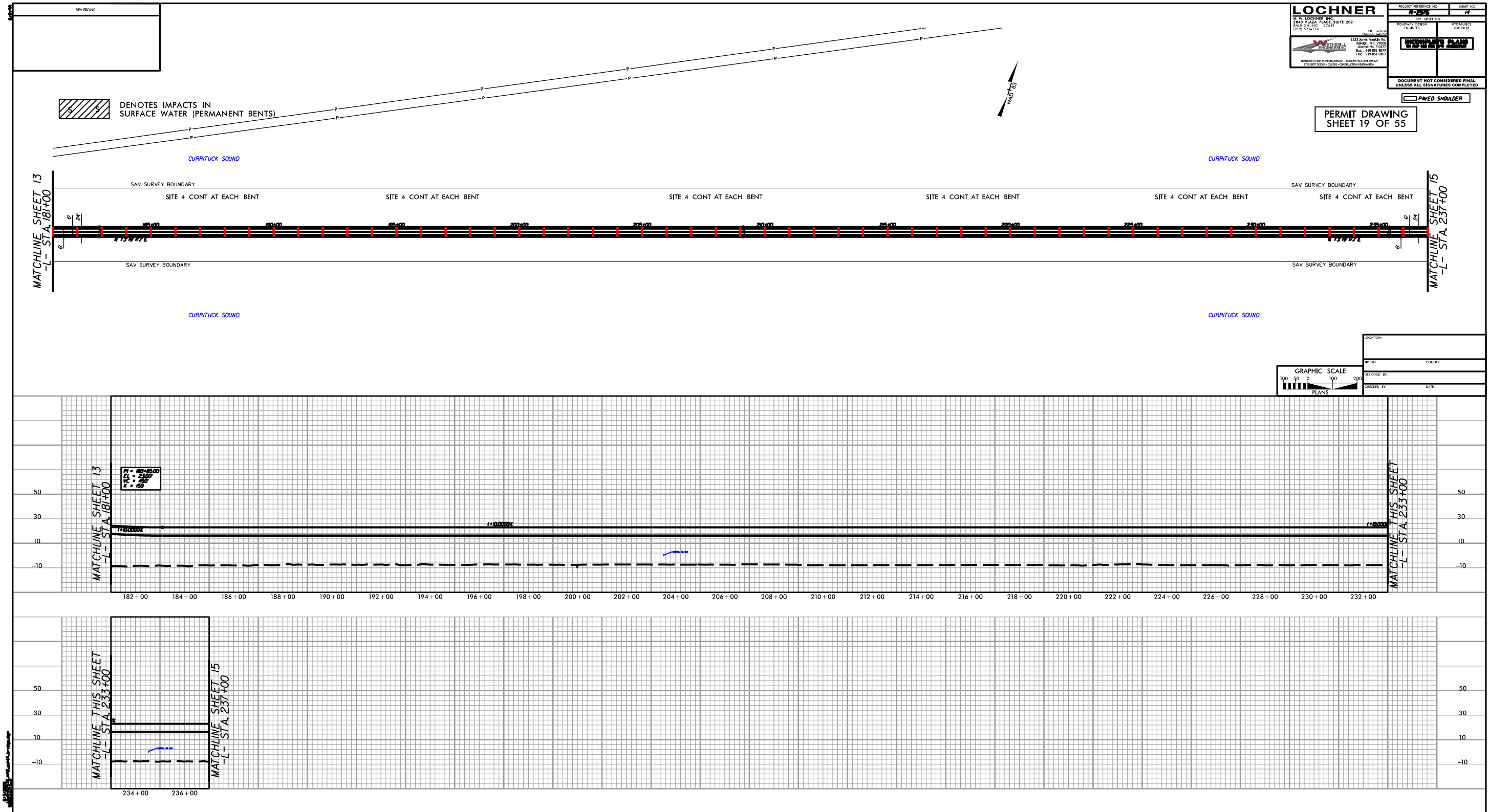
PAVED SHOULDER

SEE SHEET 35 FOR -L- PROFILE
SEE SHEET 47 FOR -Y3- PROFILE

Prepared 8/4/2020



Prepared 8/4/2020



Prepared 8/4/2020

REVISIONS

NO.	DESCRIPTION	DATE
-----	-------------	------

LOCHNER
1101 W. LOCHNER, INC.
2400 PALMA POSE, SUITE 202
KALISPELL, NC 27625
(919) 574-7111

PROJECT REFERENCE NO. 15-001
SHEET NO. 20

PROJECT LOCATION
1223 Anna Trumbull Rd.
KALISPELL, NC 27625
LOCALITY: NC 4277
LOCALITY: 1223 Anna Trumbull Rd.
LOCALITY: 1223 Anna Trumbull Rd.

PERMIT DRAWING
SHEET 20 OF 55

PERMIT NO. 15-001
ENGINEER
HYDRAULICS
ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PAVED SHOULDER

DENOTES IMPACTS IN
SURFACE WATER (PERMANENT BENTS)

CURRITUCK SOUND

SAV SURVEY BOUNDARY

SITE 4 CONT AT EACH BENT

237+00 240+00 243+00 246+00 249+00 252+00 255+00 258+00 261+00 264+00 267+00 270+00 273+00 276+00 279+00 282+00 285+00 288+00

237+00 240+00 243+00 246+00 249+00 252+00 255+00 258+00 261+00 264+00 267+00 270+00 273+00 276+00 279+00 282+00 285+00 288+00

GRAPHIC SCALE
100 50 0 100 200
PLANS

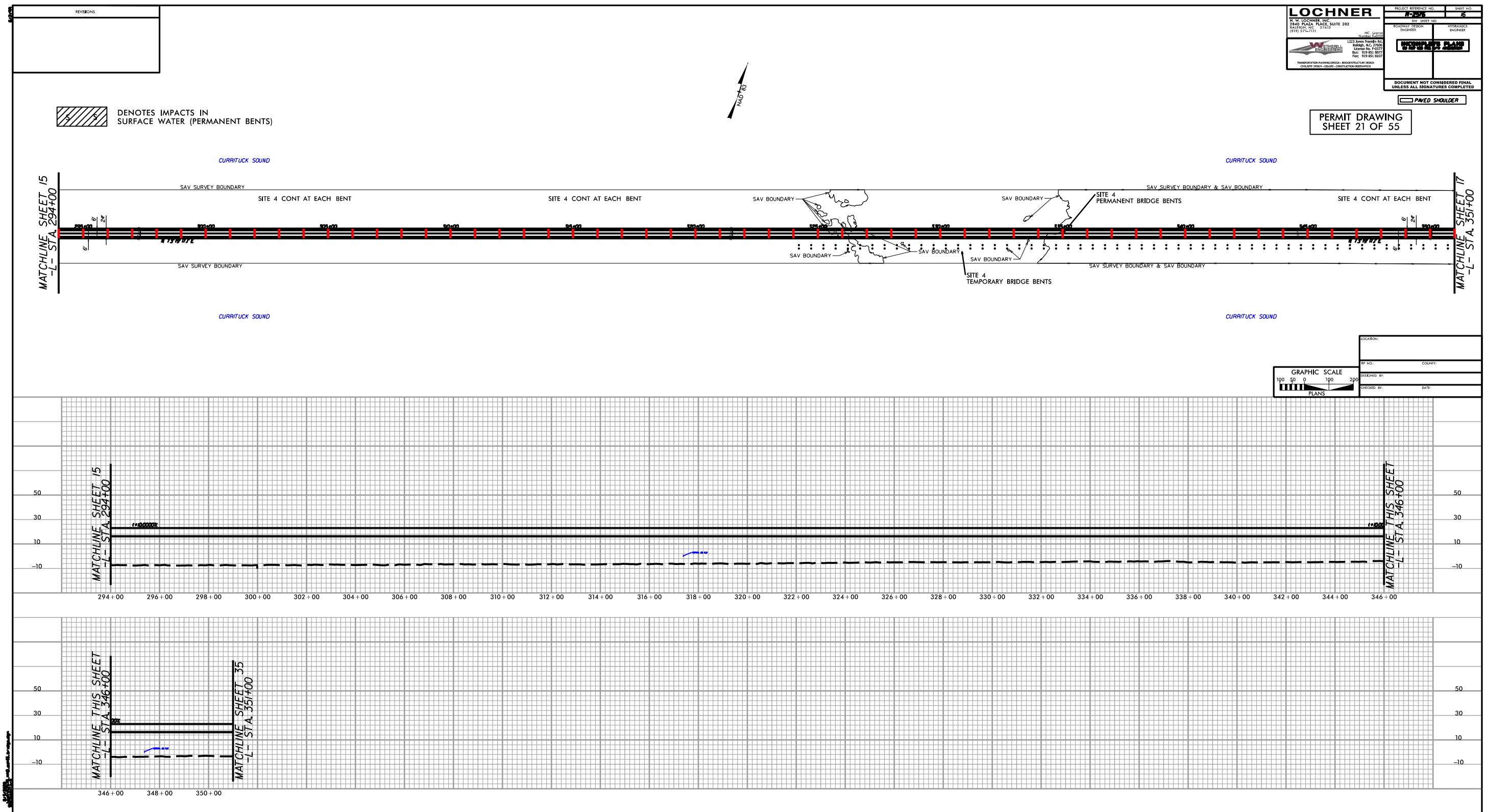
LOCATION:
TO NO. COUNTY:
DESIGNED BY: DATE:
CHECKED BY: DATE:

MATCHLINE SHEET 14
-L- STA. 237+00

MATCHLINE THIS SHEET
-L- STA. 289+00

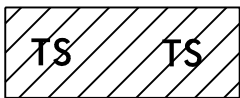
MATCHLINE SHEET 16
-L- STA. 294+00

Prepared 8/4/2020

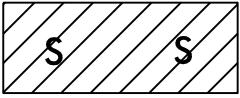


6/2/2019

8/3/2020
H:\20576_HYD_psh17.dgn
T:\B\K\A\ford



DENOTES TEMPORARY
IMPACTS IN SURFACE WATER



DENOTES IMPACTS IN
SURFACE WATER

PERMIT DRAWING
SHEET 22 OF 55

Prepared 8/4/2020

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 371-7111

NC License
Number F-0159



1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

17

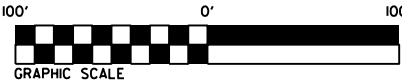
ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

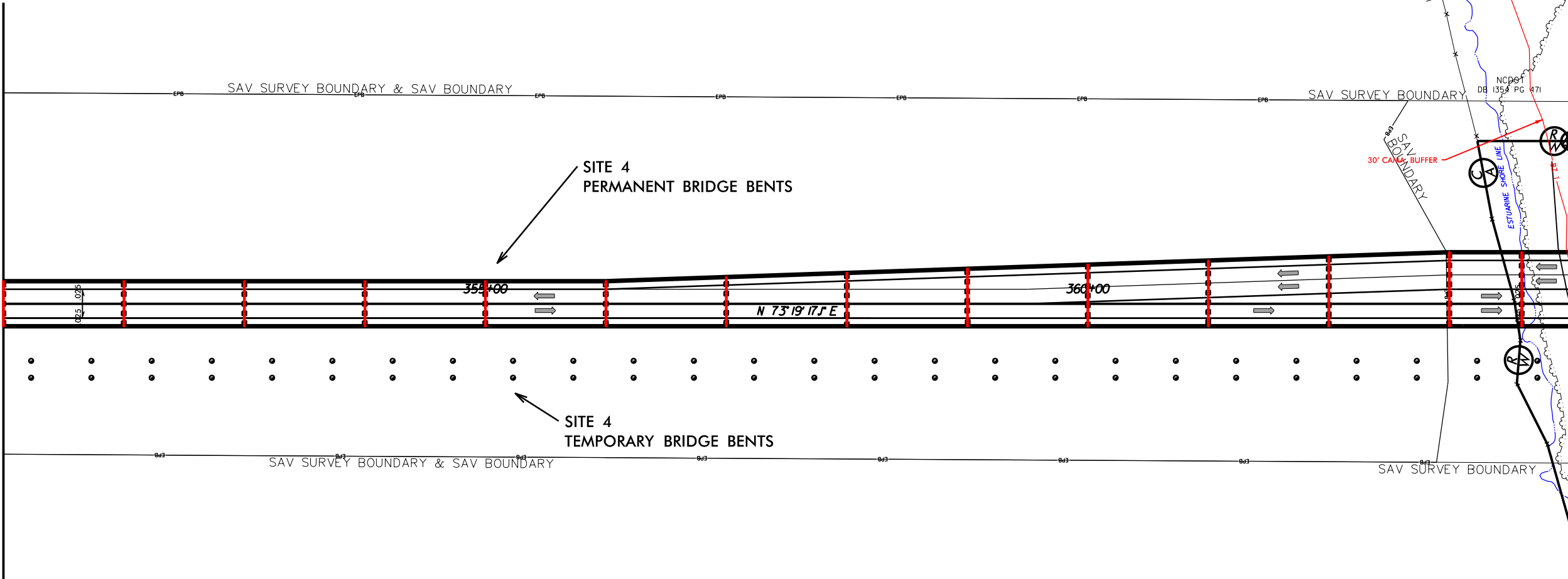
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

PAVED SHOULDER



CURRITUCK SOUND

MATCHLINE SHEET 16
-L- STA. 351+00



MATCHLINE SHEET 18
-L- STA. 364+00

CURRITUCK SOUND

SEE SHEET 35 FOR -L- PROFILE

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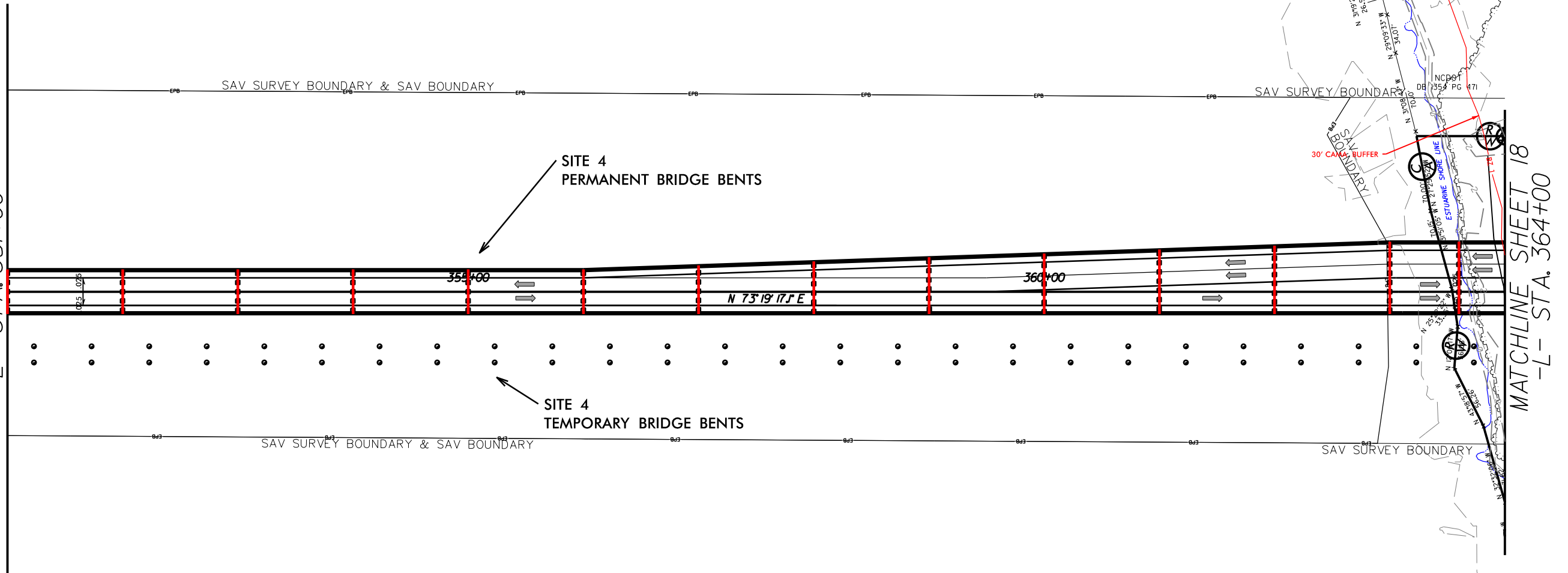


PERMIT DRAWING
SHEET 23 OF 55

Prepared 8/4/2020

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

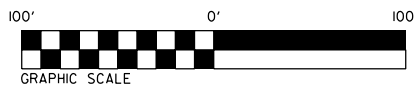
☐ PAVED SHOULDER



CURRITUCK SOUND

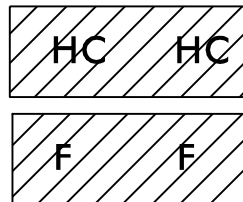
SEE SHEET 35 FOR -L- PROFILE

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8/2/2020



MATCHLINE SHEET 17
-L- STA. 364+00

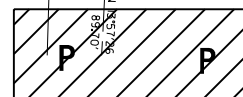
MATCHLINE SHEET 27
-Y5- STA. 13+00



HC HC
F F
DENOTES HAND
CLEARING
DENOTES FILL IN
WETLAND



TS TS
DENOTES TEMPORARY
IMPACTS IN SURFACE
WATER



P P
DENOTES IMPACTS IN
SURFACE WATER
(POND)

LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 371-7111



TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

NC License
Number F-0159

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Bus: 919 851 8077
Fax: 919 851 8107

PROJECT REFERENCE NO.

R-2576

SHEET NO.

18

ROADWAY DESIGN
ENGINEER

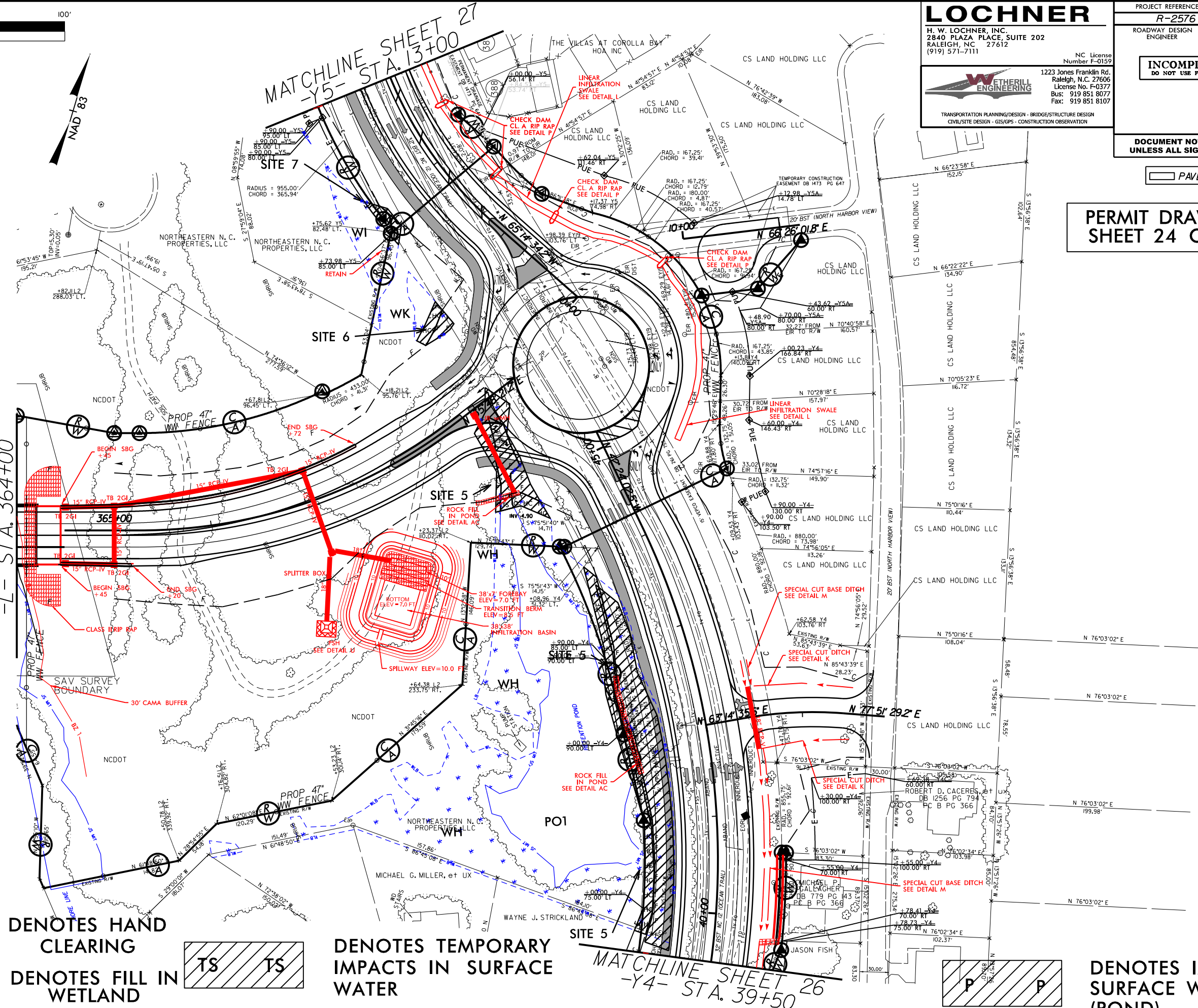
PAVEMENT DESIGN
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR A/W ACQUISITION

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

PAVED SHOULDER

**PERMIT DRAWING
SHEET 24 OF 55**



**LOCHNER**

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 571-7111

NC License
Number F-0159

**1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107**



TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.

R-2576

SHEET NO.

3

ROADWAY DESIGN
ENGINEER

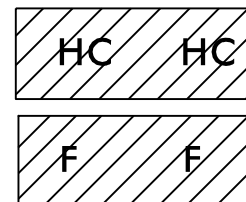
PAVEMENT DESIGN ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

☐ PAVED SHOULDER

PERMIT DRAWING
SHEET 25 OF 55

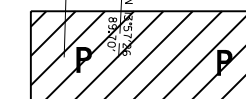


DENOTES HAND CLEARING

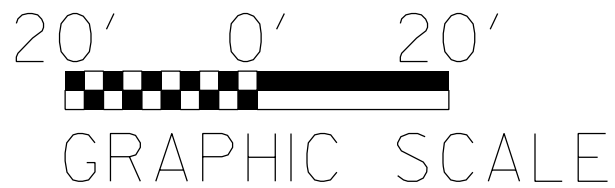
DENOTES FILL IN
WETLAND



**DENOTES TEMPORARY
IMPACTS IN SURFACE
WATER**



**DENOTES IMPACTS IN
SURFACE WATER
(POND)**



SITE 5

**PERMIT DRAWING
SHEET 26 OF 55**

Prepared 8/4/2020

**ROCK FILL
IN POND
SEE DETAIL AC**

+23.37 L2
110.02' RT.

WH

PT Sta. 44+10.12

**38'x7' FOREBAY
ELEV = 7.0 FT**

**TRANSITION BERM
ELEV = 8.5 FT**

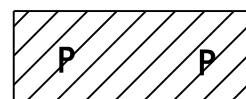
38'x38'

PO1

BASIN

SITE 5

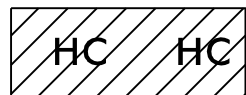
Sta. 41+94.42 =



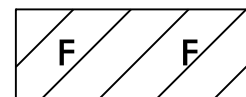
DENOTES IMPACTS IN
SURFACE WATER (POND)



DENOTES TEMPORARY
IMPACTS IN SURFACE WATER

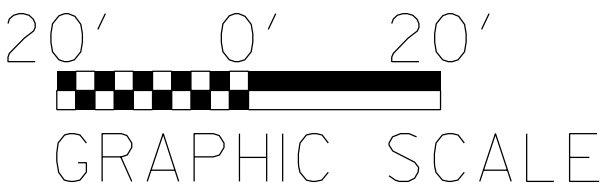


DENOTES HAND
CLEARING



DENOTES FILL IN
WETLAND





NORTHEASTERN N. C.
PROPERTIES, LLC

NORTHEASTERN N. C.
PROPERTIES, LLC

SITE 7

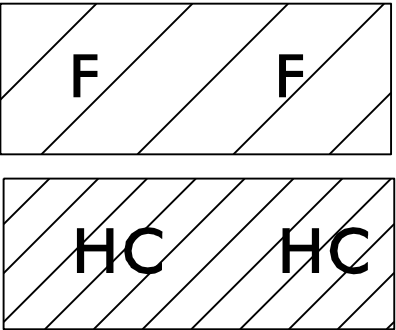
RETAIN

RW

WK

SITE 6

NCDOT



**DENOTES FILL IN
WETLAND**

**DENOTES HAND
CLEARING**

+75.62 Y5
82.48' LT.

+18.21 L2
95.76' LT

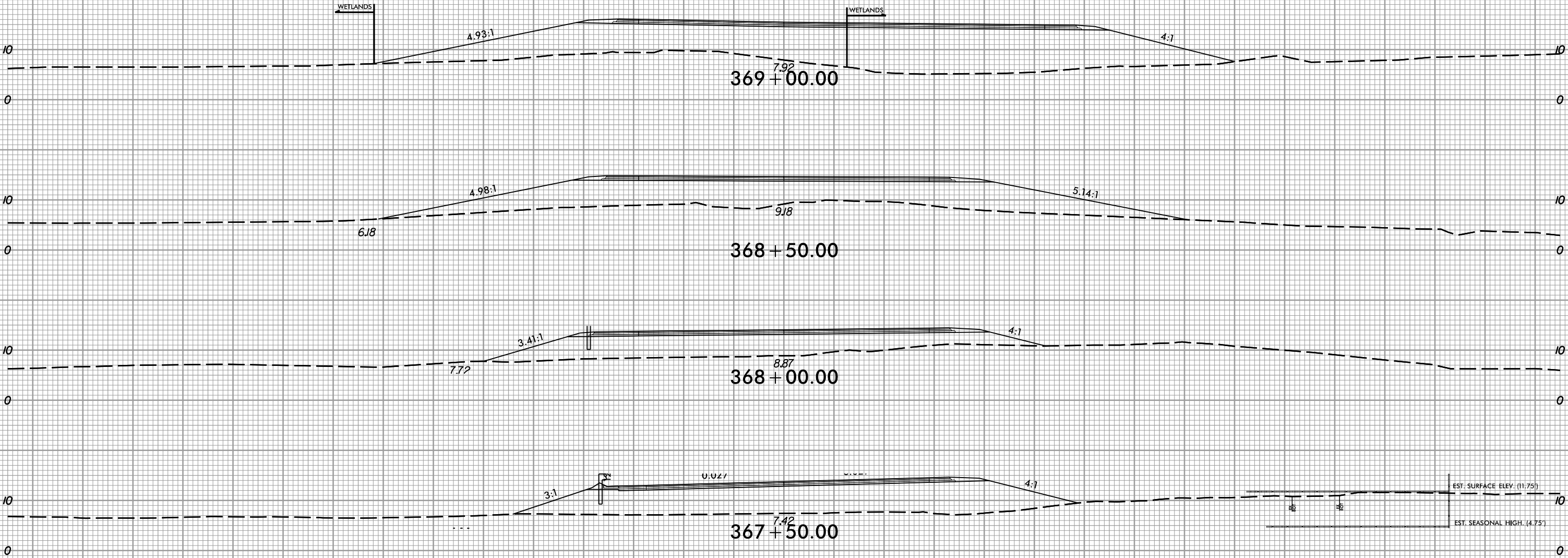




SITE 6

SITE 5

PERMIT DRAWING
SHEET 28 OF 55





PROJ. REFERENCE NO.
R-2576

SHEET NO.
X-83

PERMIT DRAWING
SHEET 29 OF 55

SITE 5

41 + 50.00

41 + 00.00

40 + 50.00

40 + 00.00

39 + 50.00

-Y4-

WETLANDS

WETLANDS

WETLANDS

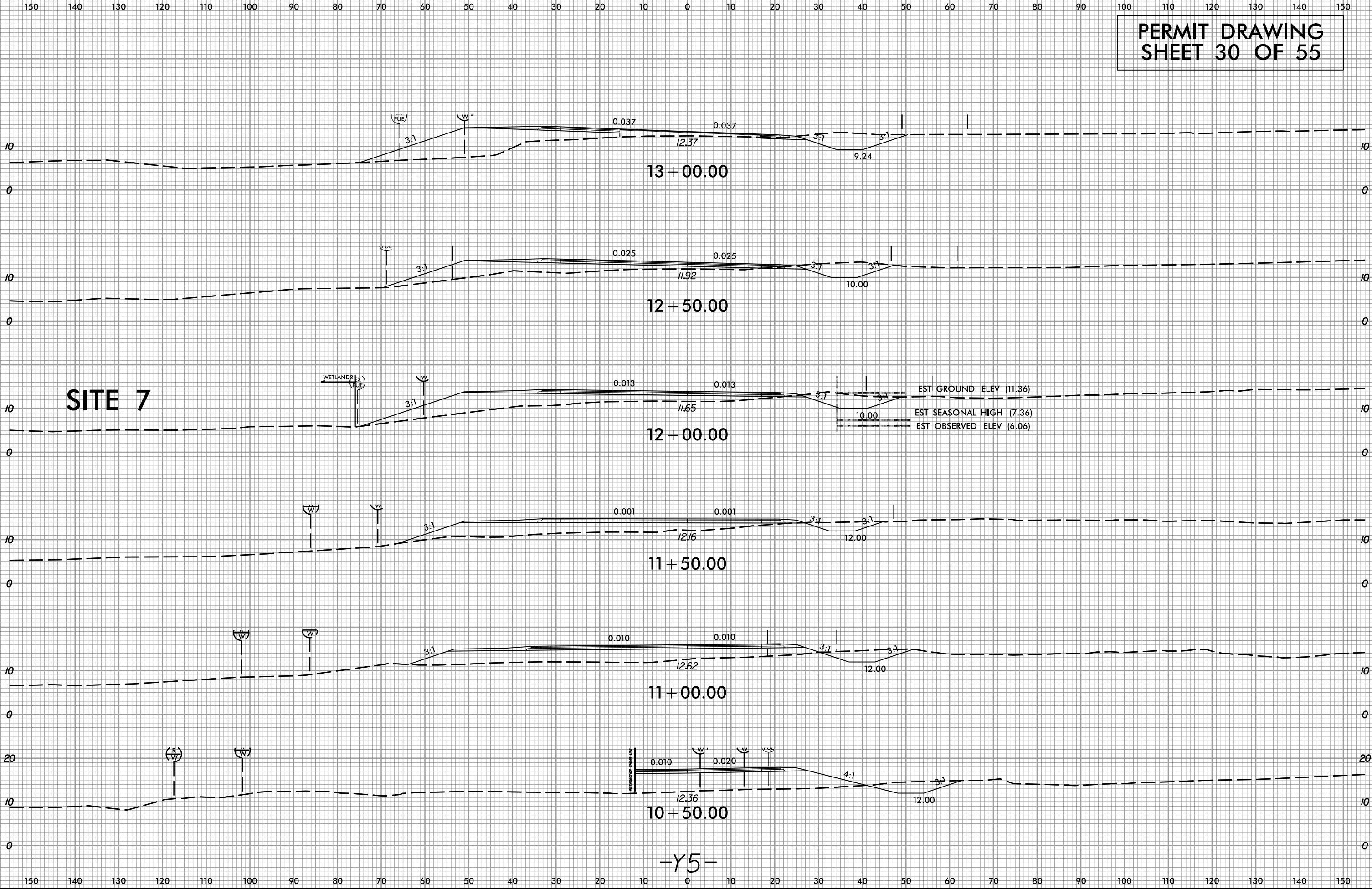
WETLANDS

6/23/16

SDATES
SUSERNAMES
SFILES

6/23/16

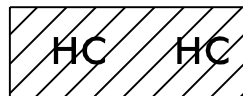
PERMIT DRAWING
SHEET 30 OF 55



SITE 7

6/2/2020

7/31/2020 10:57:56 HYD_psh19.dgn



HC HC
DENOTES HAND
CLEARING



F F
DENOTES FILL IN
WETLAND

PERMIT DRAWING
SHEET 31 OF 55

Prepared 8/4/2020

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RALEIGH, NC 27612
(919) 371-7111

NC License
Number F-0159



1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. SHEET NO.

R-2576

19

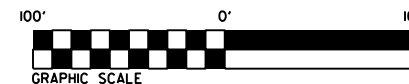
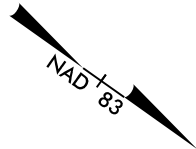
ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

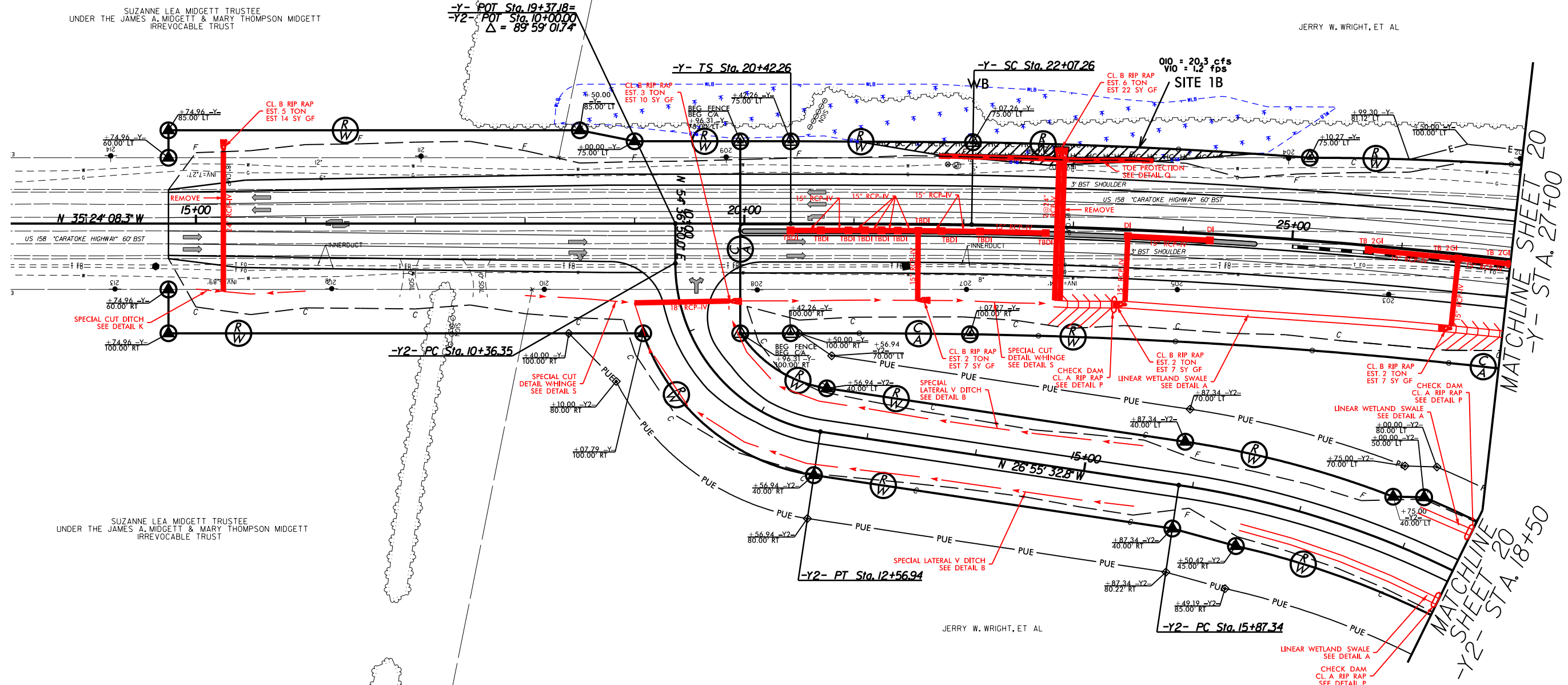
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

PAVED SHOULDER



JERRY W. WRIGHT, ET AL

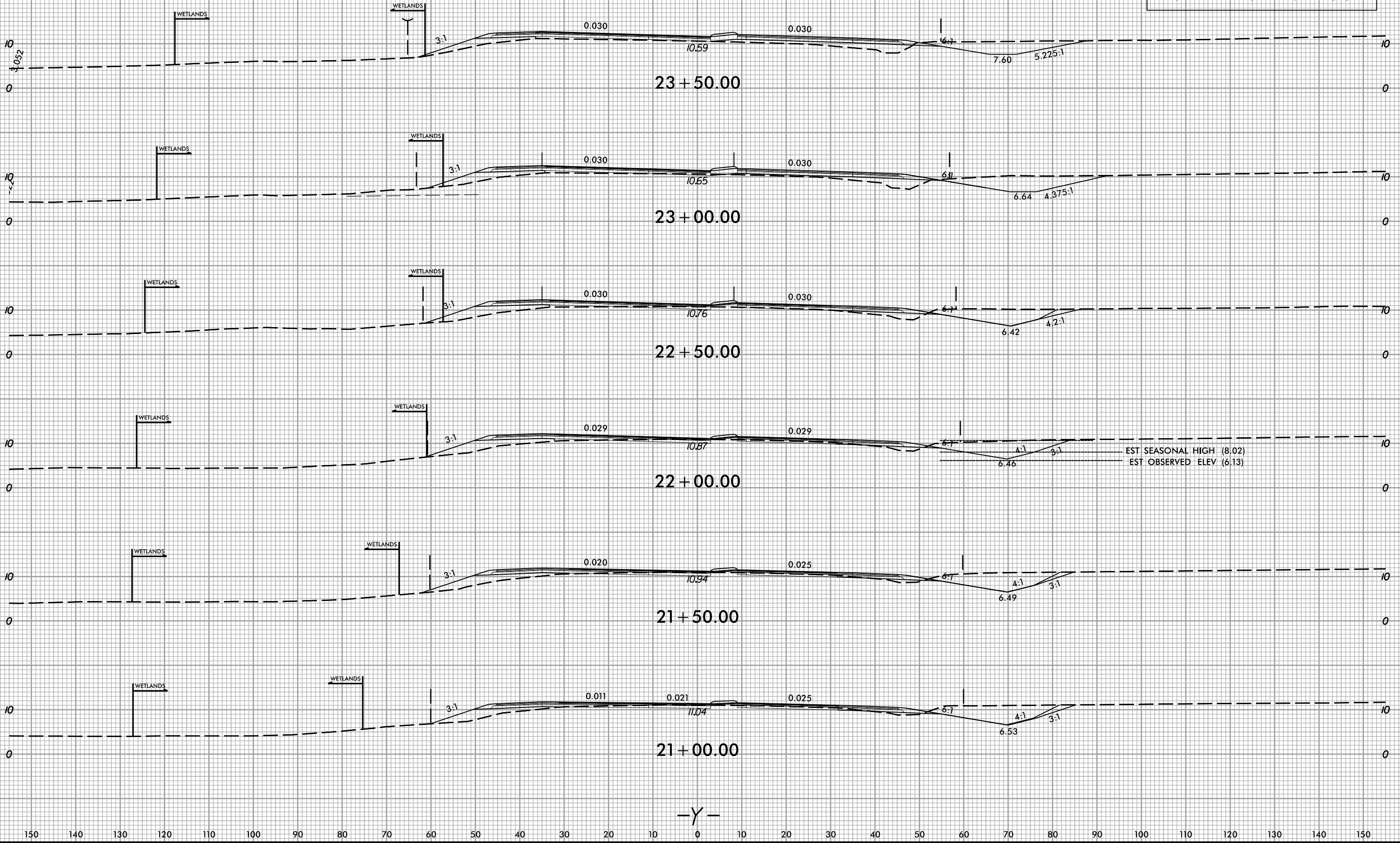


SEE SHEET 36 FOR -Y- PROFILE
SEE SHEET 45 FOR -Y2- PROFILE

6/23/16

SITE 1B

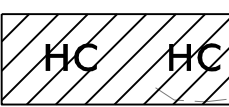
PERMIT DRAWING SHEET 34 OF 55



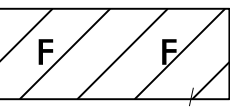
SDATES
SUSERS/NAME/S
SFILES

6/2/2019

7/31/2020 10:57:56 HYD_psh19.com.dgn



DENOTES HAND
CLEARING



DENOTES FILL IN
WETLAND

PERMIT DRAWING
SHEET 32 OF 55

Prepared 8/4/2020

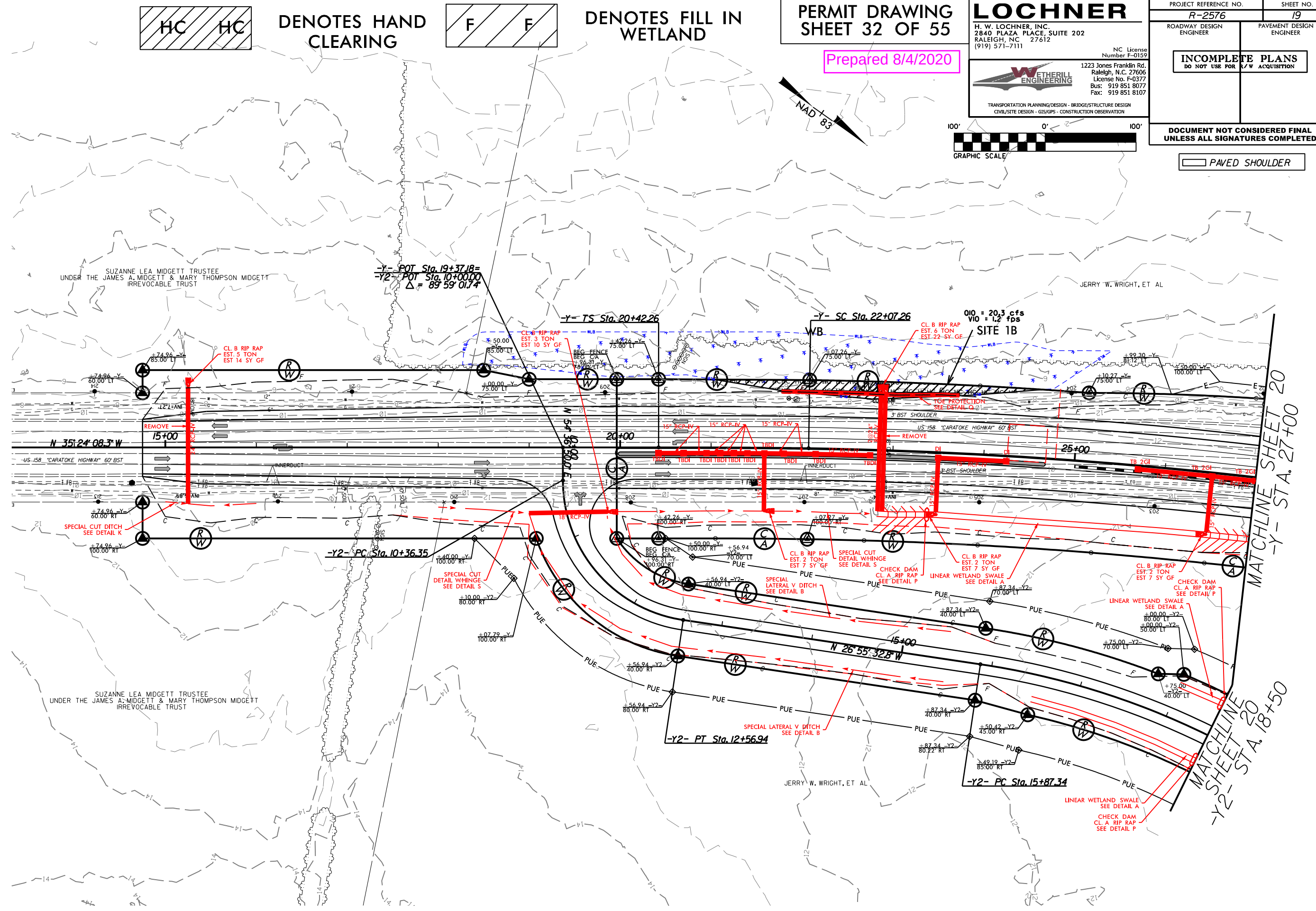
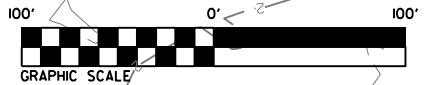
LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 371-7111

NC License
Number F-0159

1223 Jones Franklin Rd.
Raleigh, N.C. 27606
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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

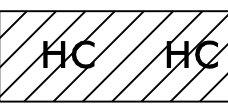
PROJECT REFERENCE NO. R-2576		SHEET NO. 19	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 PAVED SHOULDER			



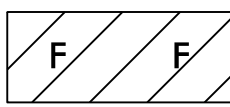
SEE SHEET 36 FOR -Y- PROFILE
SEE SHEET 45 FOR -Y2- PROFILE

6/2/2020

7/31/2020 15:57:56 HYD_psh22.dgn
15:57:56



HC HC DENOTES HAND CLEARING



F F DENOTES FILL IN WETLAND

PERMIT DRAWING
SHEET 35 OF 55

Prepared 8/4/2020

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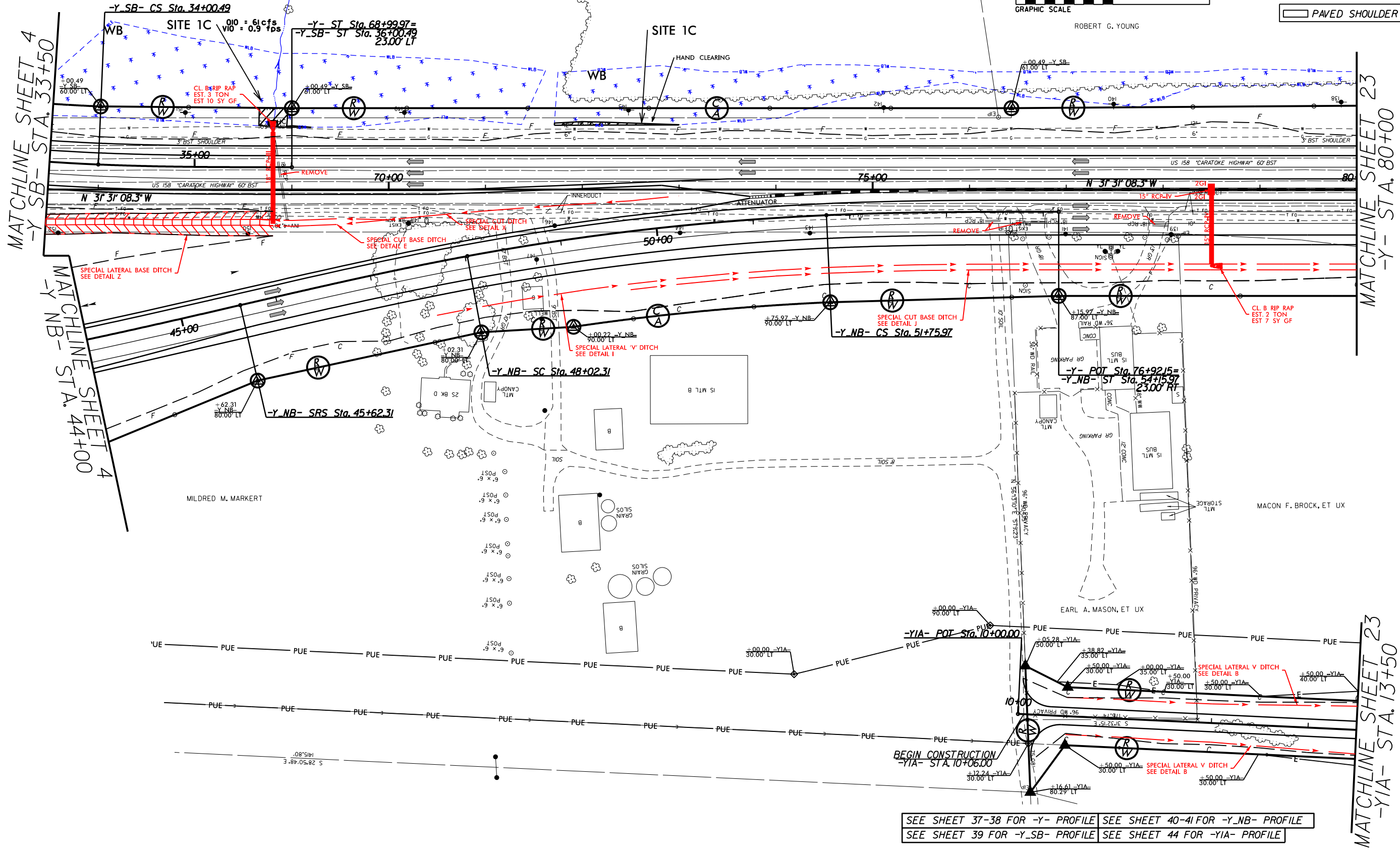
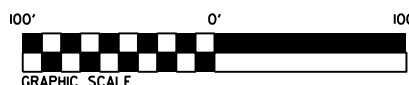
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

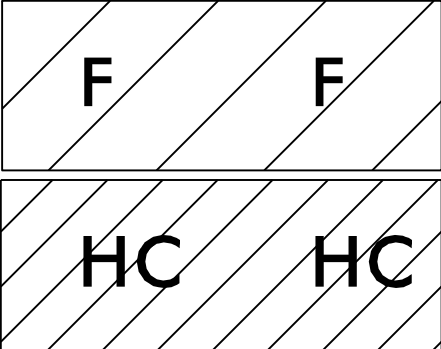
ROBERT G. YOUNG

PROJECT REFERENCE NO.		SHEET NO.	
R-2576		22	
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER	INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION	

**DOCUMENT NOT CONSIDERED FINAL
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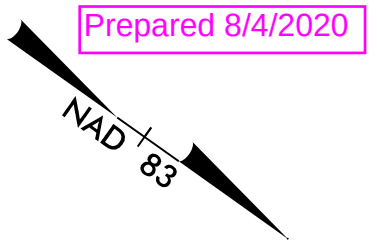
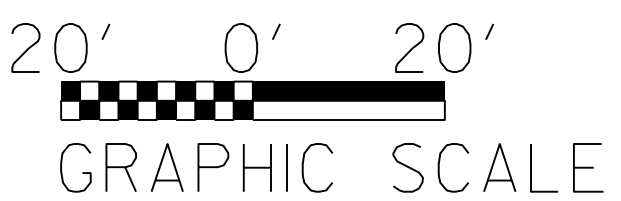
PAVED SHOULDER





DENOTES FILL IN WETLAND

DENOTES HAND CLEARING



PERMIT DRAWING
SHEET 33 OF 55

Q10 = 20.3 cfs
V10 = 1.2 fps

WB

WB

SC Sta. 22+07.26

CL. B RIP RAP
EST. 6 TON
EST 22 SY GF

SITE 1B

+07.26 -Y-
75.00' LT



TOE PROTECTION
SEE DETAIL Q

3' BST SHOULDER

US 158 "CARATOKE HIGHWAY" 60' BST

REMOVE

CP-IV

15" RCP-IV

2@24" RCP-V

TBDI

15" RCP-IV

DI

15" RCP-IV

DI

CP-IV

.025

.03

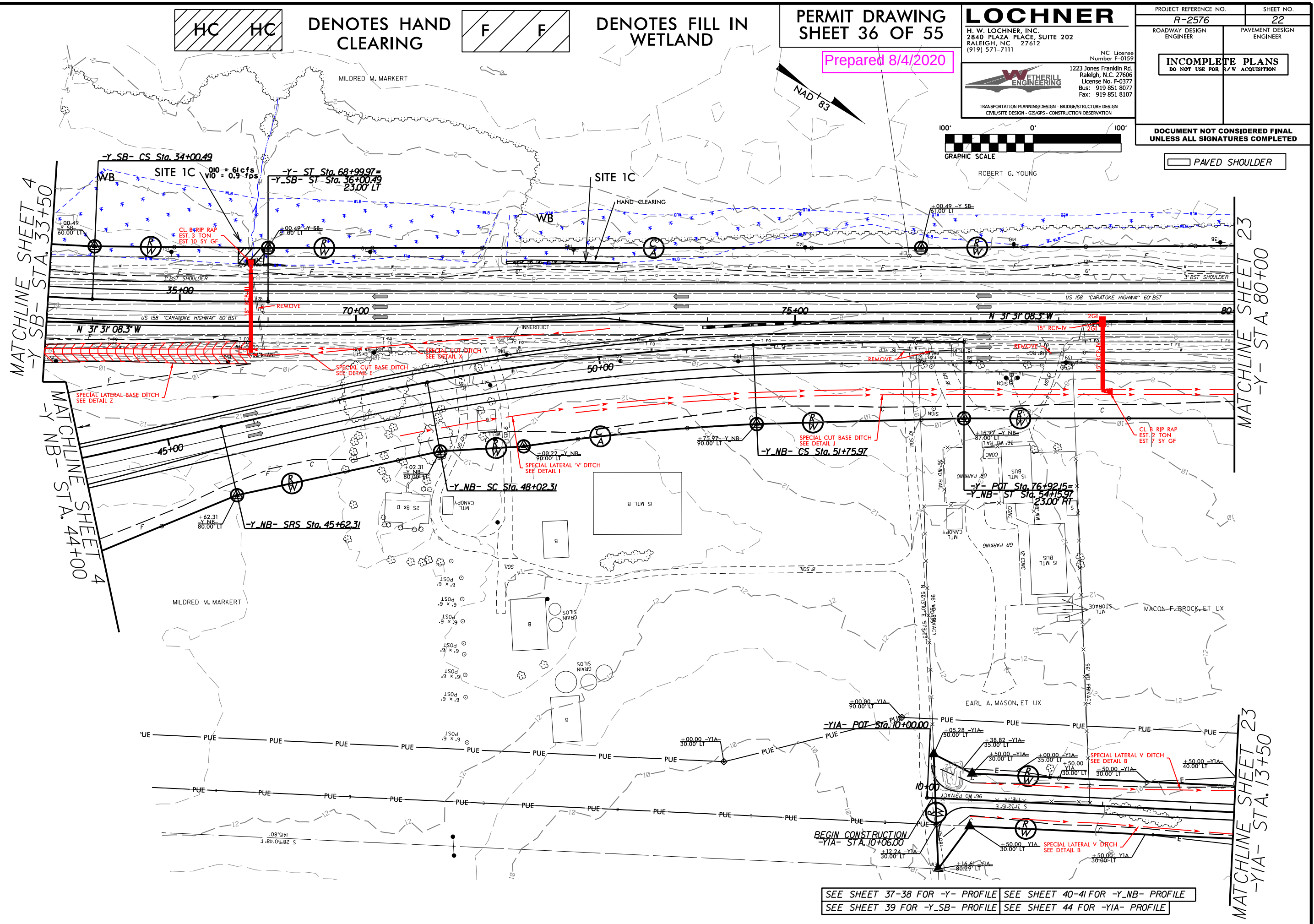
INNER DUCT

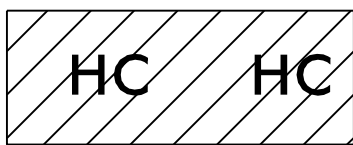
TBDI

18" CMP

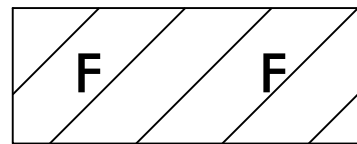
3' BST SHOULDER

.03





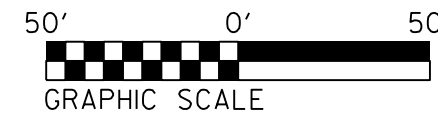
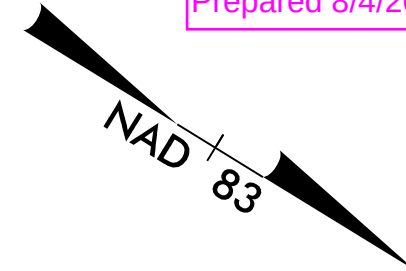
DENOTES HAND
CLEARING



DENOTES FILL IN
WETLAND

PERMIT DRAWING
SHEET 37 OF 55

Prepared 8/4/2020



SB- CS Sta. 34+00.49

SITE 1C

Q10 = 61 cfs
V10 = 0.9 fps

-Y- ST Sta. 68+99.97=
-Y_SB- ST Sta. 36+00.49
23.00' LT

+00.49 -Y_SB-
61.00' LT

SITE 1C

HAND CLEARING

WB

CL. RIP RAP
EST. 3 TON
EST 10 SY GF



3' BST SHOULDER

35+00

US 158 "CARATOKE HIGHWAY" 60' BST

70+00

75+00

8.3" W

AL BASE DITCH

SPECIAL CUT DITCH
SEE DETAIL X

SPECIAL CUT BASE DITCH
SEE DETAIL E

50+00

45+00

+62.31
-Y_NB-
80.00' LT

-Y_NB- SRS Sta. 45+62.31

+02.31
-Y_NB-
80.00' LT

-Y_NB- SC Sta. 48+02.31

+00.22 -Y_NB-
90.00' LT

SPECIAL LATERAL 'V' DITCH
SEE DETAIL I

+75.97 -Y_NB-
90.00' LT

-Y_NB- CS Sta. 51+75.97

SPECIAL CUT BASE DITCH
SEE DETAIL J

2S BK D

MTL
CANOPY

IS MTL B

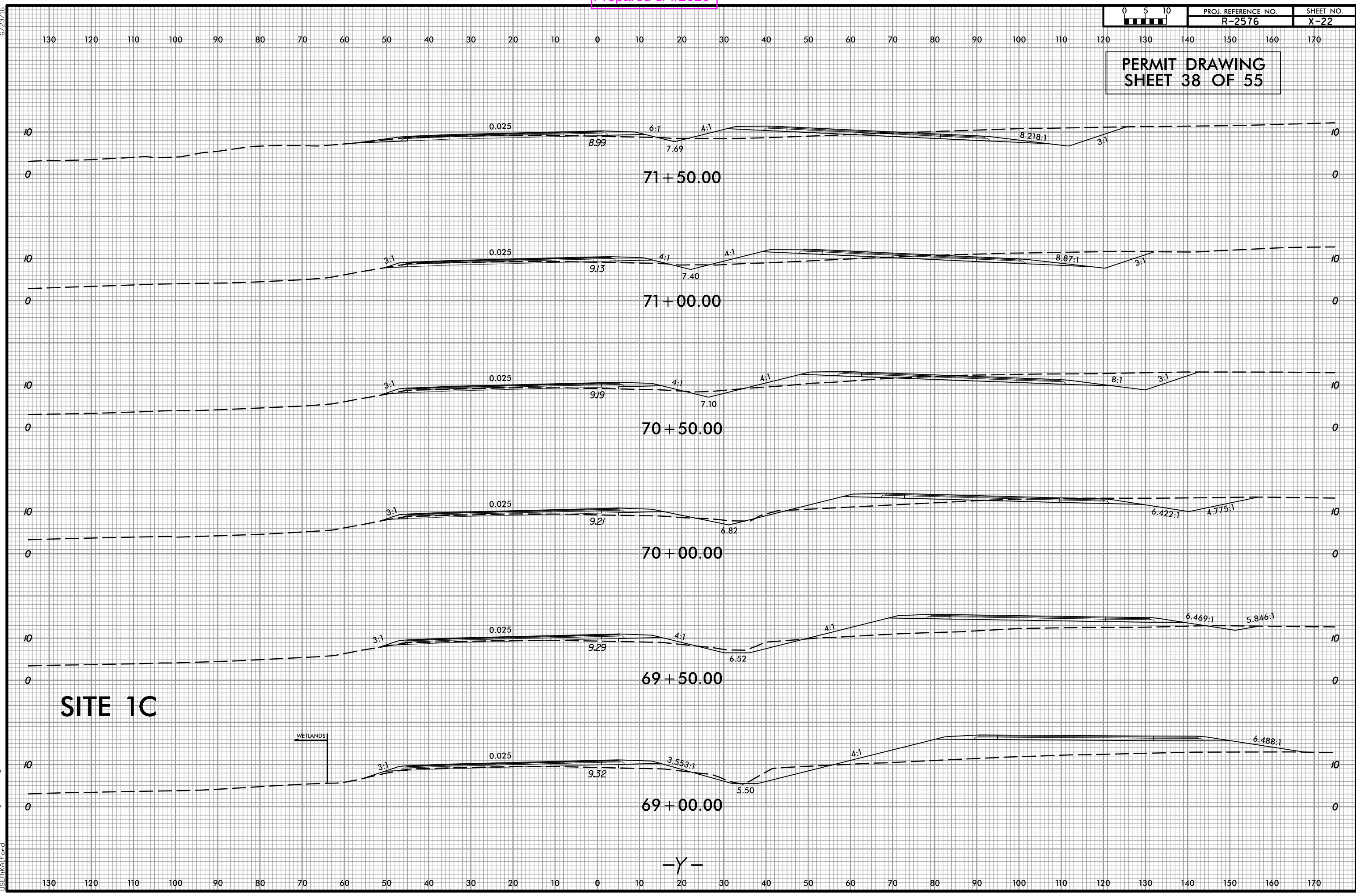
B

710S

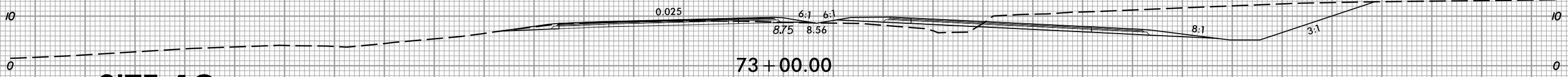
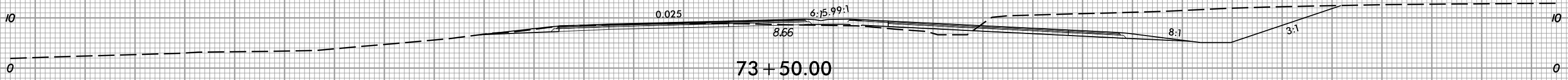
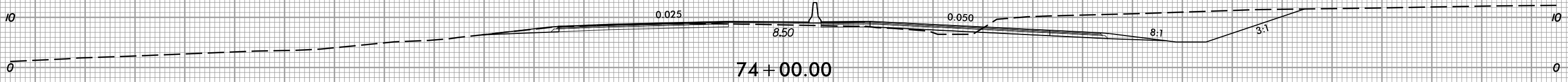
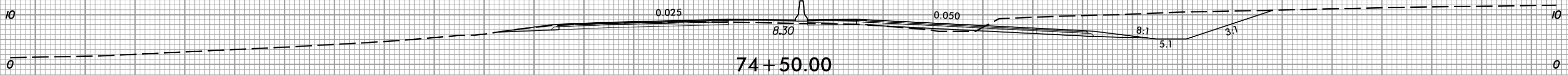
710S .B

PERMIT DRAWING
SHEET 38 OF 55

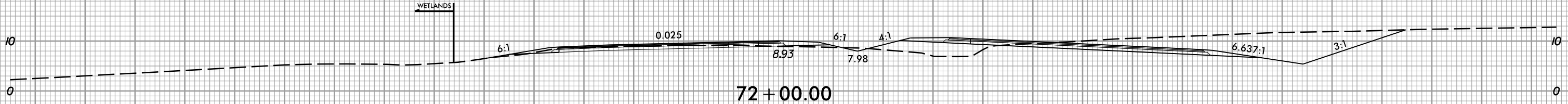
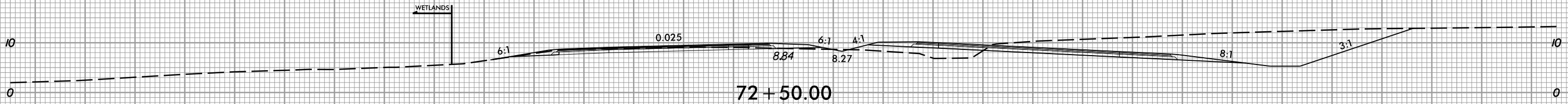
6/23/16
7/31/2020
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jgallagher



PERMIT DRAWING
SHEET 38A OF 55

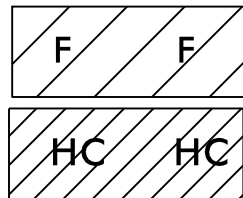


SITE 1C



-Y-

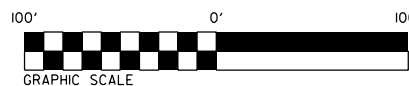
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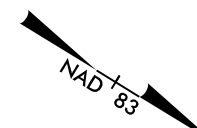
**DENOTES FILL IN
WETLAND**

DENOTES HAND
CLEARING

Prepared 8/4/2020



PERMIT DRAWING
SHEET 39 OF 55



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License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN

COINJOCK DEVELOPMENT COMPANY, INC.

PROJECT REFERENCE NO. _____

R-2576

SHEET NO.

23

ROADWAY DESIGN
ENGINEER

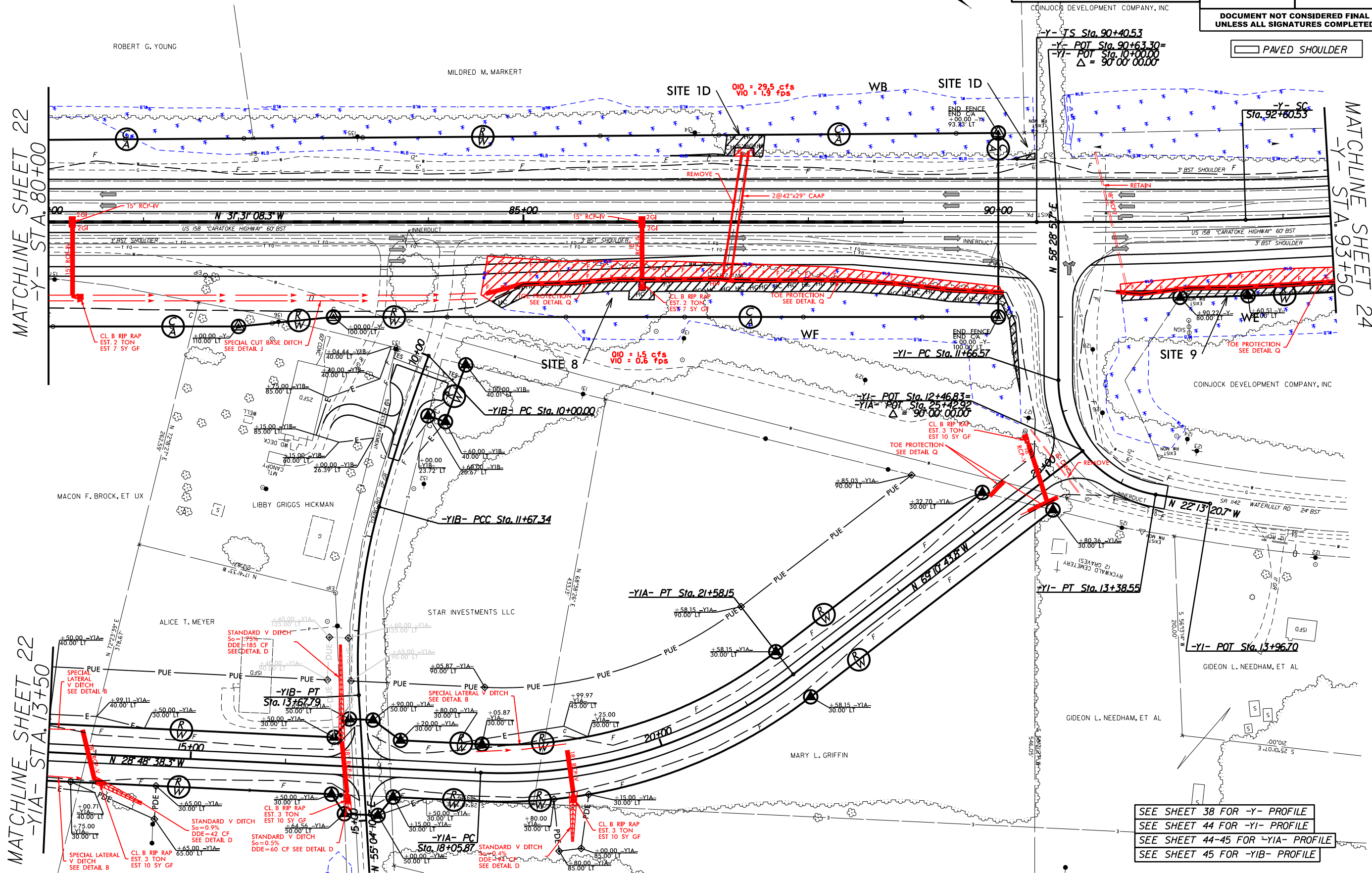
PAVEMENT DESIGN
ENGINEER

INCOMPLETE PLANS	
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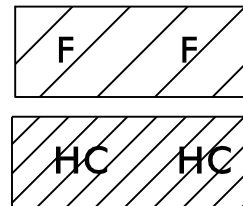
DO NOT USE FOR R/W ACQUISITION

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

☐ PAVED SHOULDER

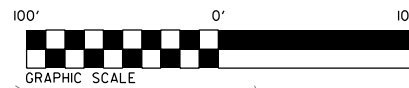


SEE SHEET 38 FOR -Y- PROFILE
SEE SHEET 44 FOR -YI- PROFILE
SEE SHEET 44-45 FOR -YIA- PROFILE
SEE SHEET 45 FOR -YIB- PROFILE



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WETLAND**

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PERMIT DRAWING
SHEET 40 OF 55

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Number F-0159



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ENGINEERING

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Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN

CDINJOCK DEVELOPMENT COMPANY, INC

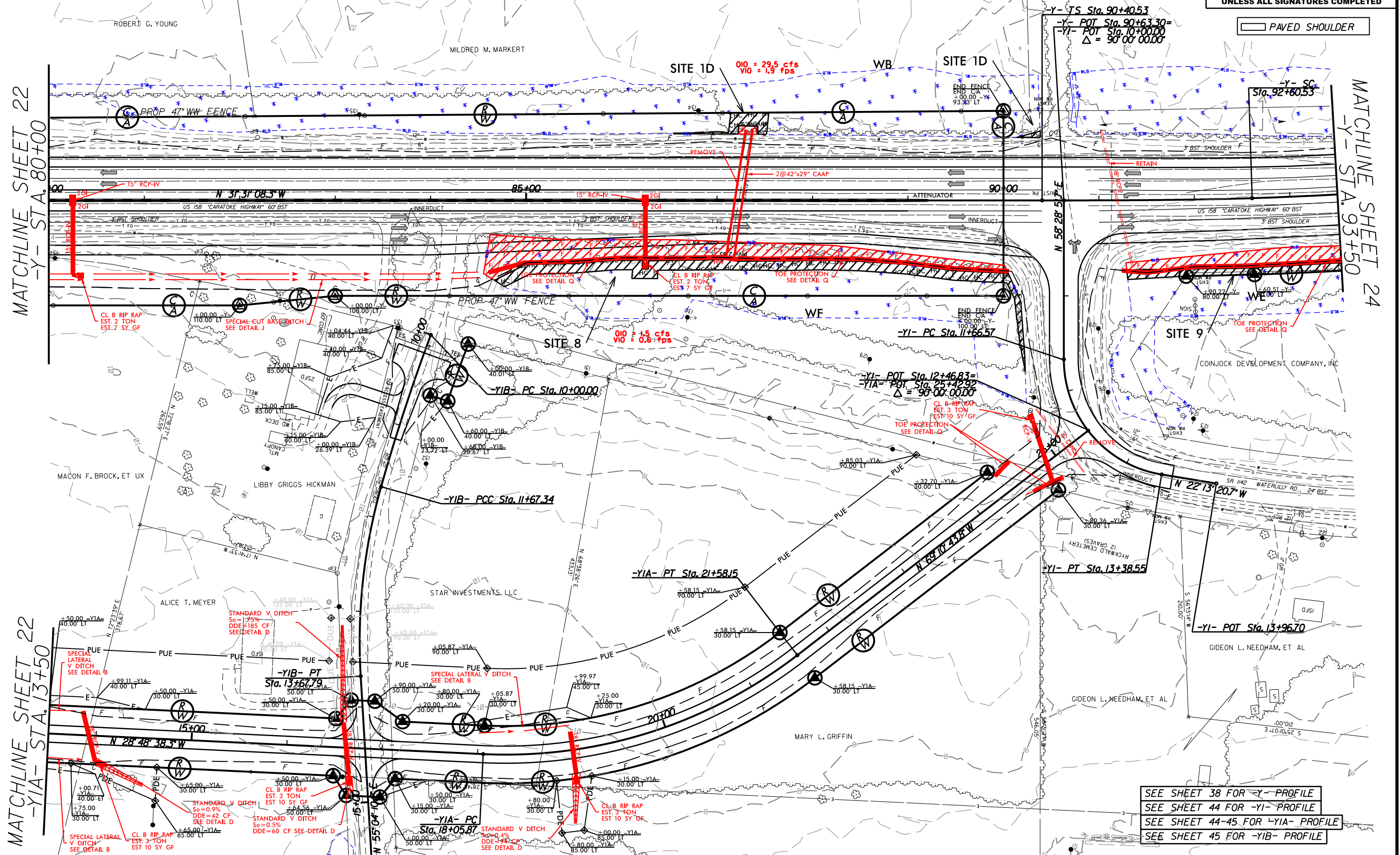
PROJECT REFERENCE NO.	SHEET NO.
R-2576	23

ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
----------------------------	-----------------------------

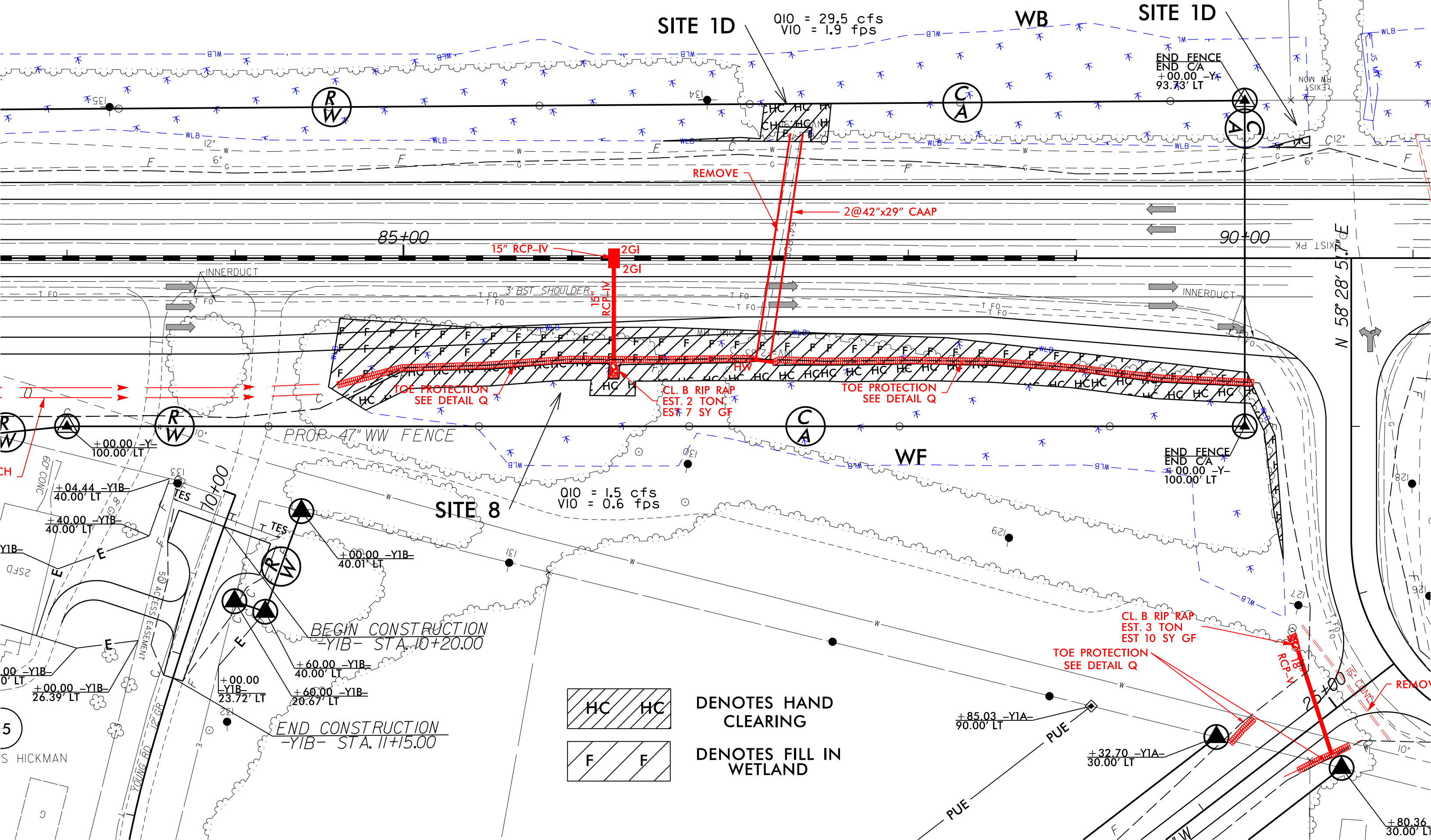
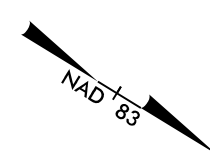
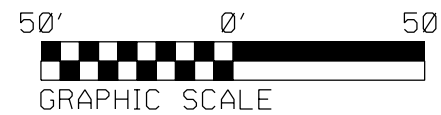
INCOMPLETE PLANS
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 PAVED SHOULDER



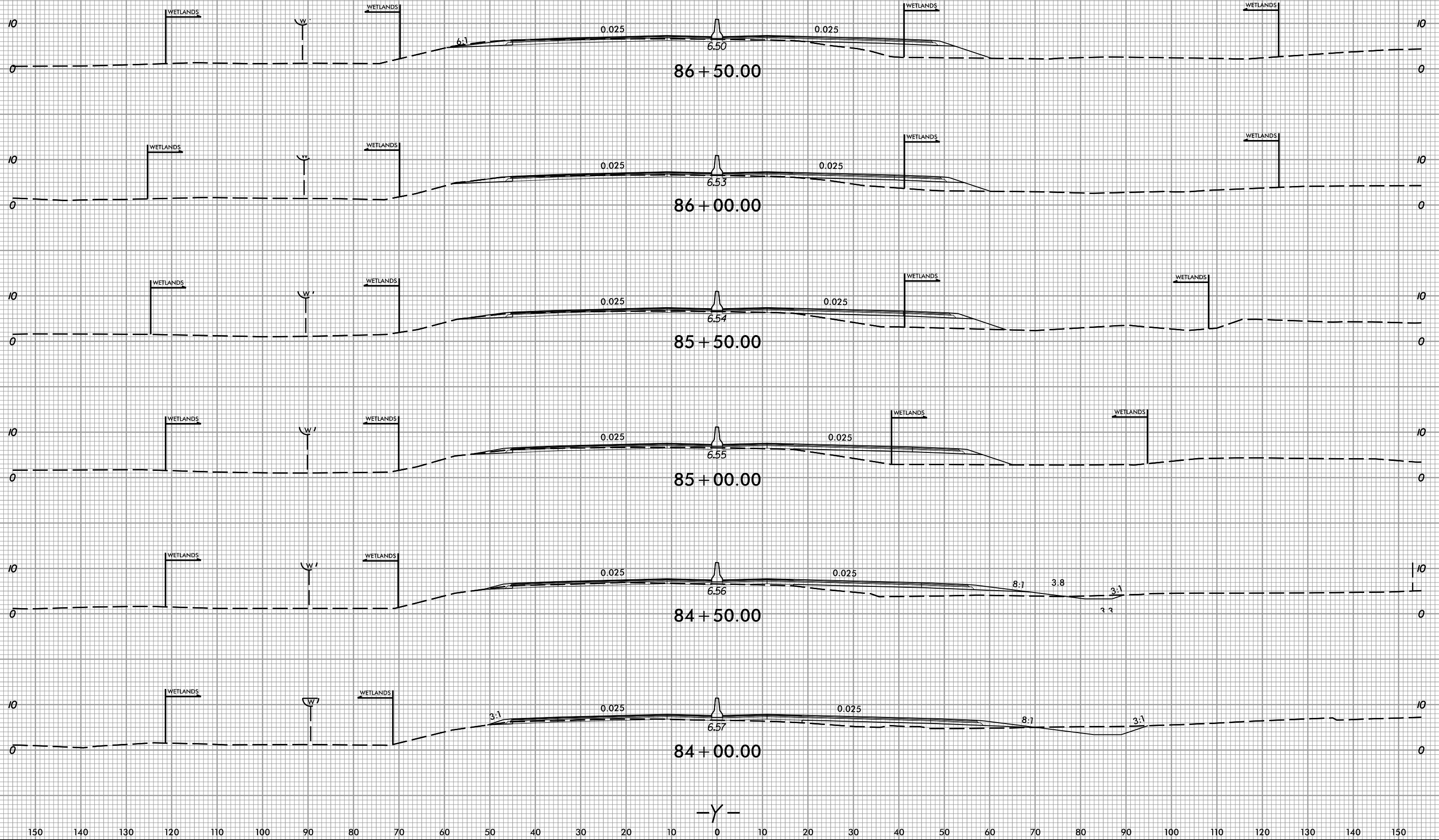
SEE SHEET 38 FOR -Y- PROFILE
SEE SHEET 44 FOR -YI- PROFILE
SEE SHEET 44-45 FOR -YIA- PROFILE
SEE SHEET 45 FOR -YIB- PROFILE



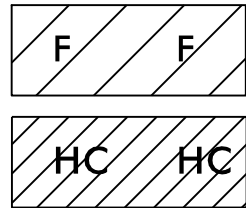
SITE 1D

SITE 8

PERMIT DRAWING
SHEET 42 OF 55



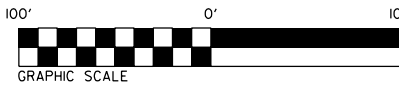
6/2/2009



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WETLAND

DENOTES HAND
CLEARING

Prepared 8/4/2020



PERMIT DRAWING
SHEET 43 OF 55

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RALEIGH, NC 27612
(919) 371-7111

NC License
Number F-0159



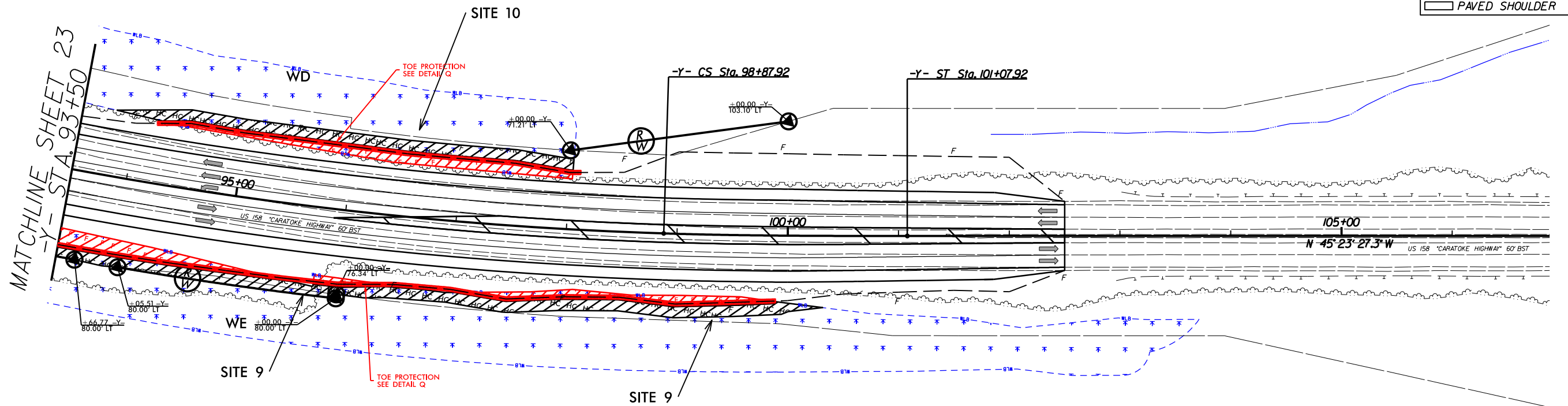
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

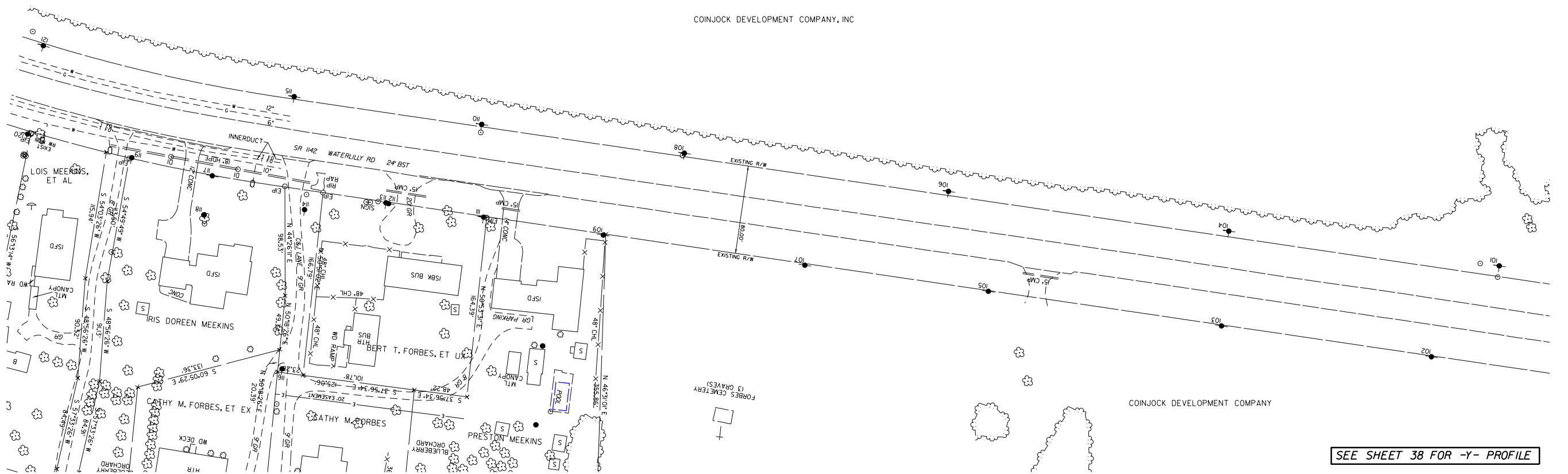
PROJECT REFERENCE NO.		SHEET NO.	
R-2576		24	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			

DOCUMENT NOT CONSIDERED FINAL
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PAVED SHOULDER



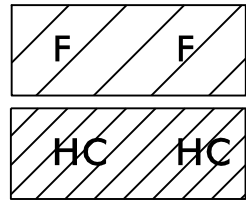
COINJOCK DEVELOPMENT COMPANY, INC



SEE SHEET 38 FOR -Y- PROFILE

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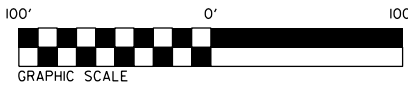
6/2/2020 7:31/2020 0576.HYD.pst24.con.dgn



DENOTES FILL IN
WETLAND

DENOTES HAND
CLEARING

Prepared 8/4/2020



PERMIT DRAWING
SHEET 44 OF 55

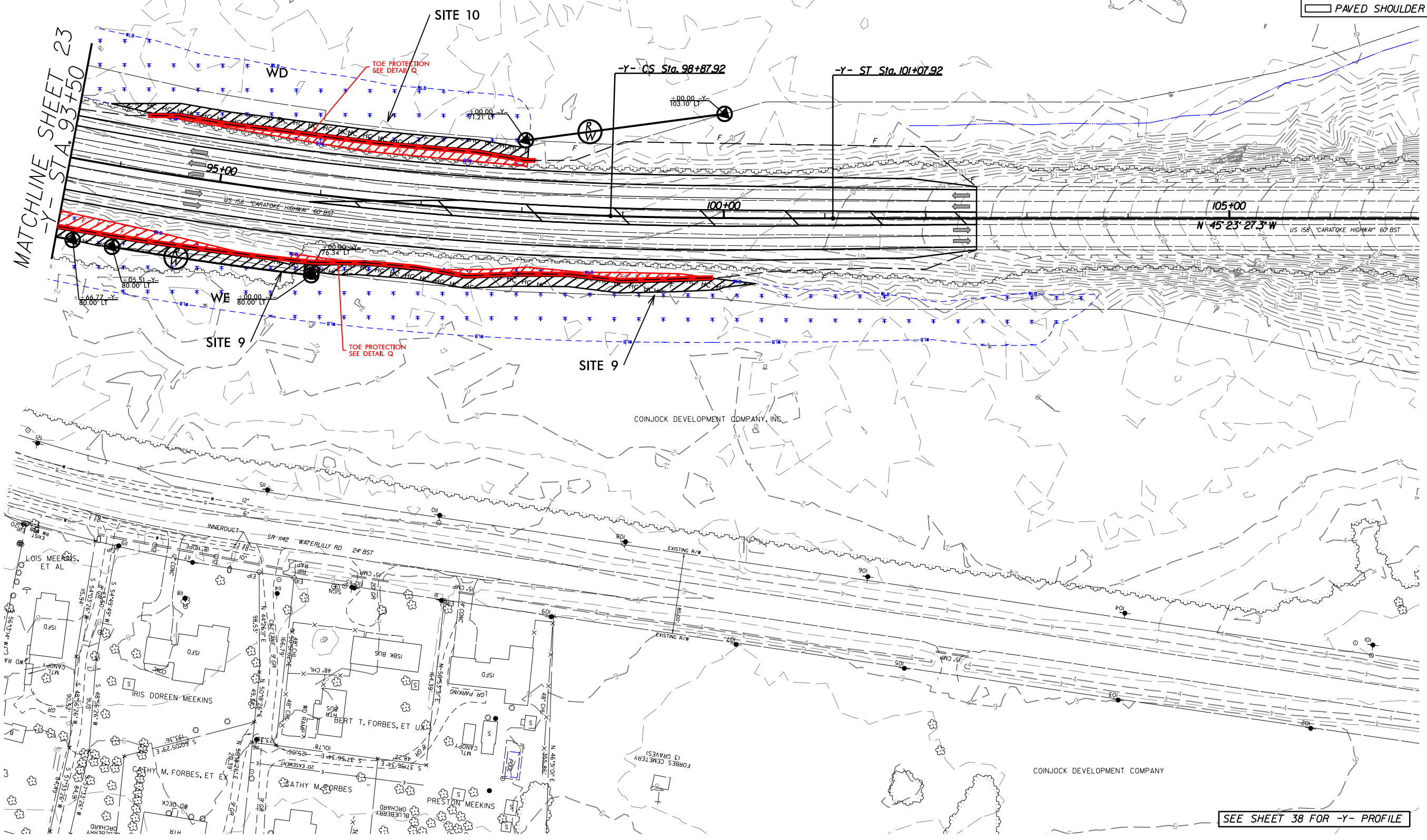
LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
(919) 371-7111

NC License
Number F-0159
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
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Fax: 919 851 8107

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ENGINEERING**
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. R-2576		SHEET NO. 24	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

PAVED SHOULDER

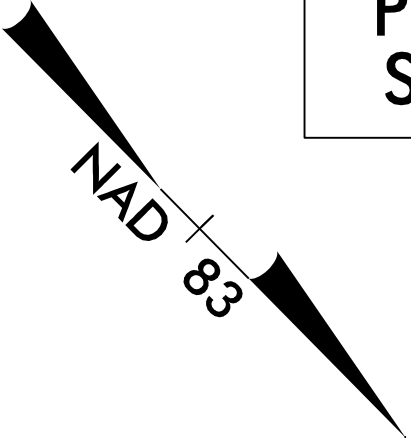
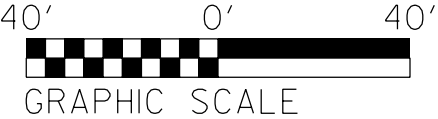


SEE SHEET 38 FOR -Y- PROFILE

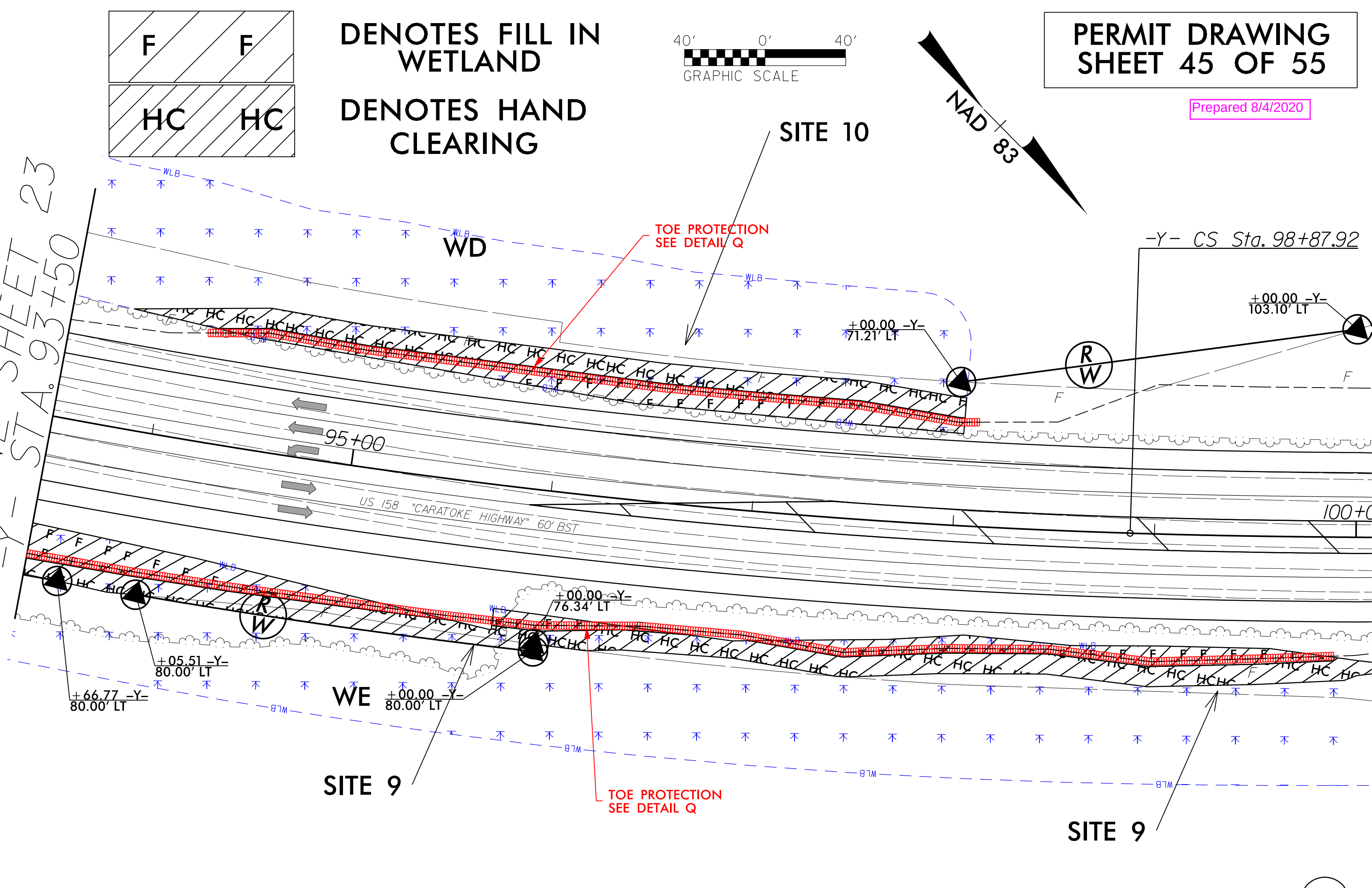
Prepared 8/4/2020

DENOTES FILL IN
WETLAND

DENOTES HAND
CLEARING



SHEET 23
STA 93+50



SITE 10

SITE 9

SITE 9

TOE PROTECTION
SEE DETAIL Q

TOE PROTECTION
SEE DETAIL Q

WE

R
W

R
W

+00.00 -Y-
103.10' LT

+00.00 -Y-
71.21' LT

+00.00 -Y-
76.34' LT

+00.00 -Y-
80.00' LT

+05.51 -Y-
80.00' LT

+66.77 -Y-
80.00' LT

-Y- CS Sta. 98+87.92

95+00

100+00

US 158 "CARATOKE HIGHWAY" 60' BST

6/23/16



PROJ. REFERENCE NO.
R-2576

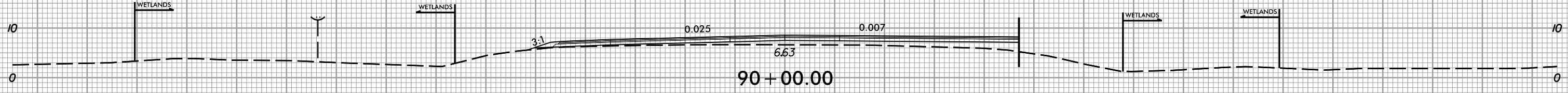
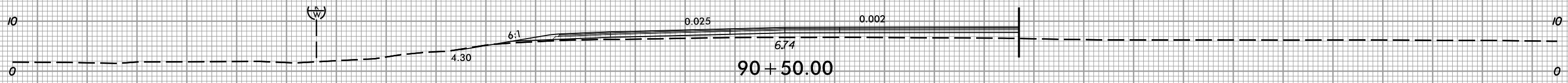
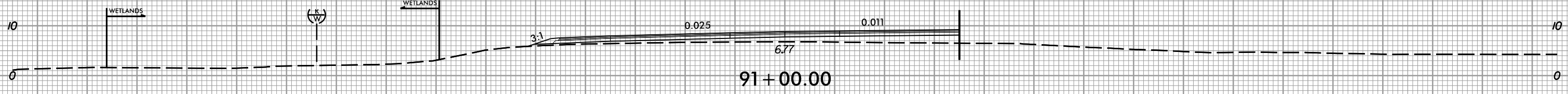
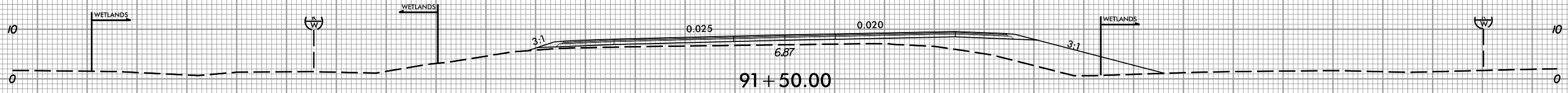
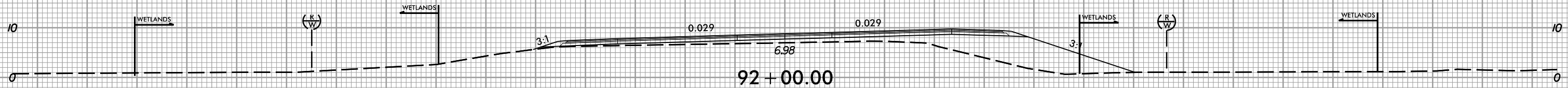
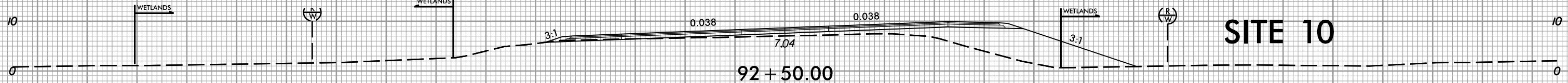
SHEET NO.
X-29

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

SITE 9

PERMIT DRAWING
SHEET 46 OF 55

SITE 10



-Y-

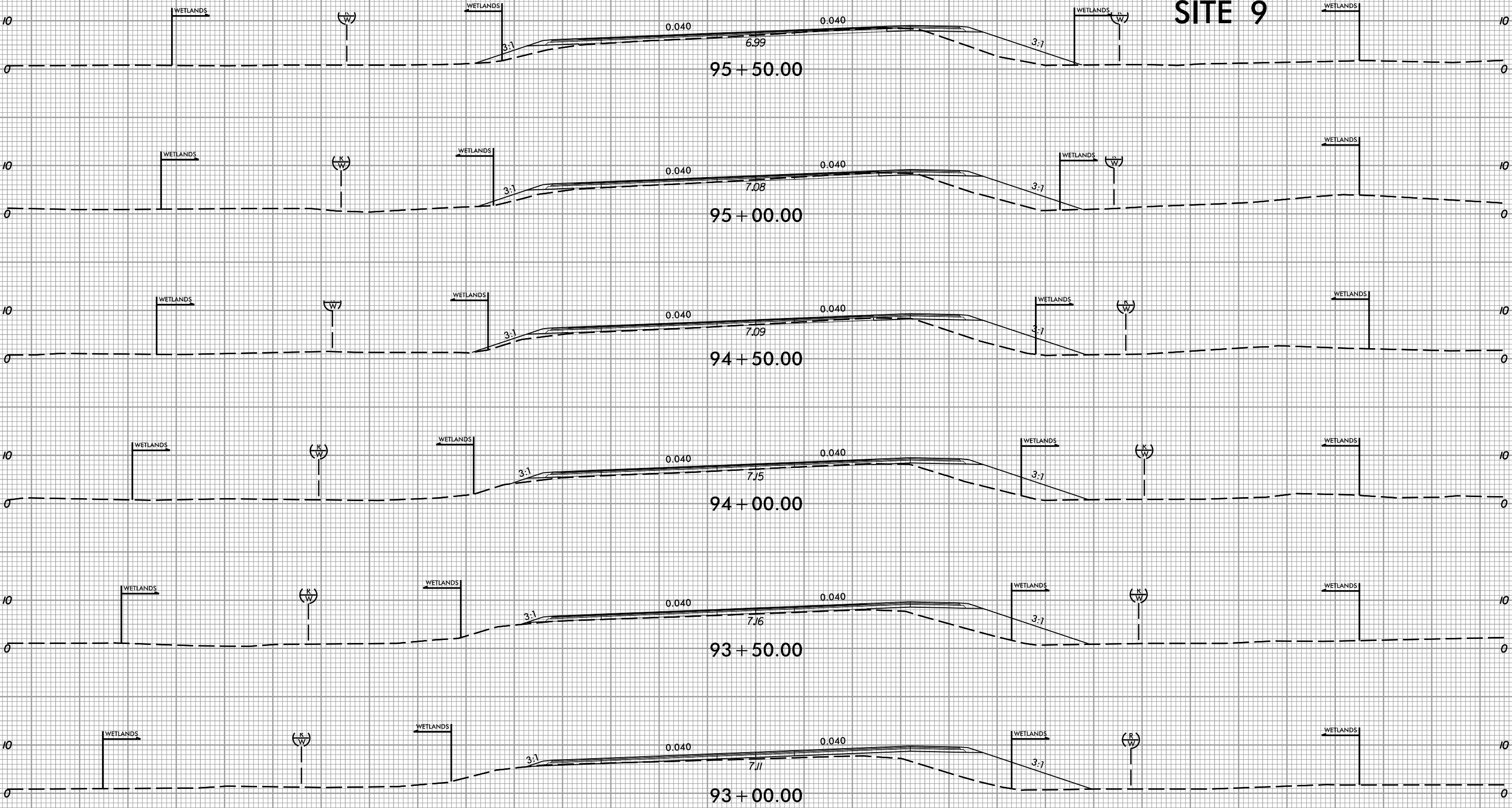
150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

6/23/16

SITE 10

SITE 9

PERMIT DRAWING
SHEET 47 OF 55

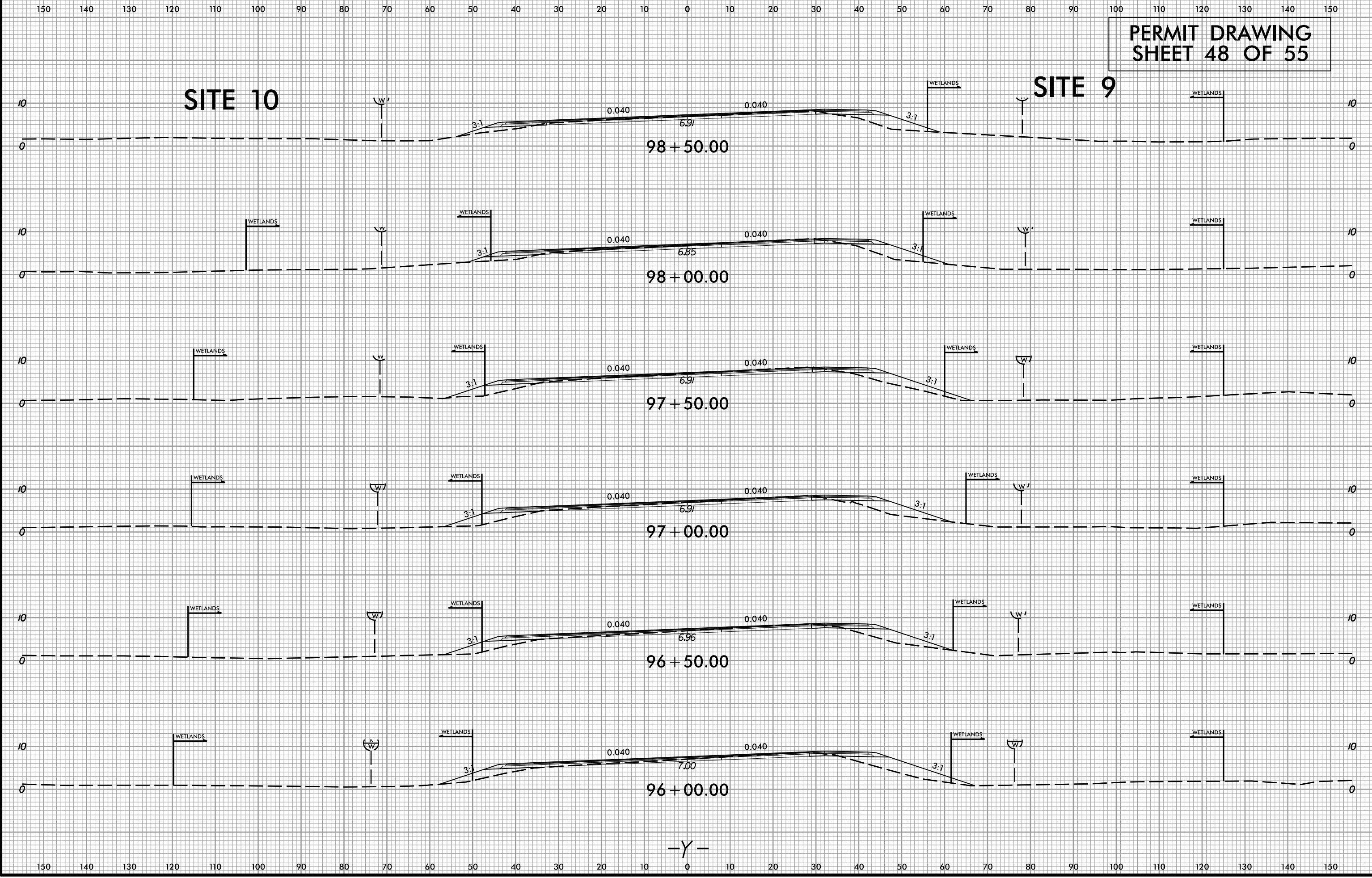


-Y-

STATES
3 USER NAME'S
SHEETS

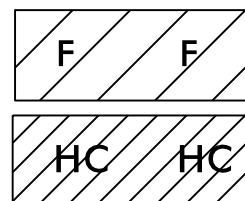
6/23/16

PERMIT DRAWING
SHEET 48 OF 55



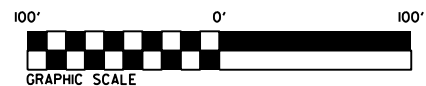
DATES
\$USERNAME\$
\$FILE\$

-Y-



**DENOTES FILL IN
WETLAND**

DENOTES HAND
CLEARING

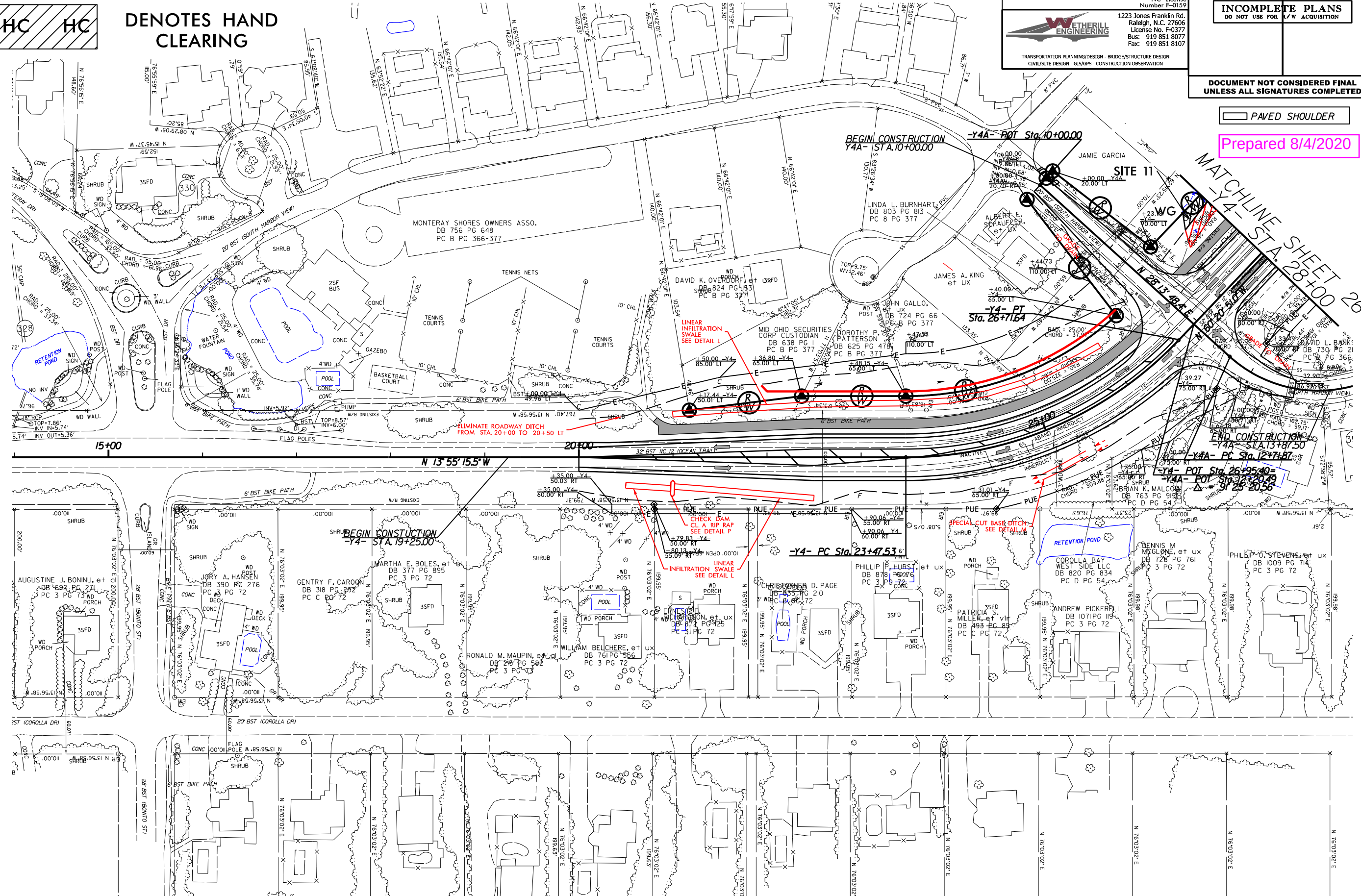
PERMIT DRAWING
SHEET 49 OF 55

LOCHNER
H. W. LOCHNER, INC.
 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612
 (919) 571-7111

PROJECT REFERENCE NO.		SHEET NO.	
<i>R-2576</i>		<i>25</i>	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

☐ PAVED SHOULDER

Prepared 8/4/2020

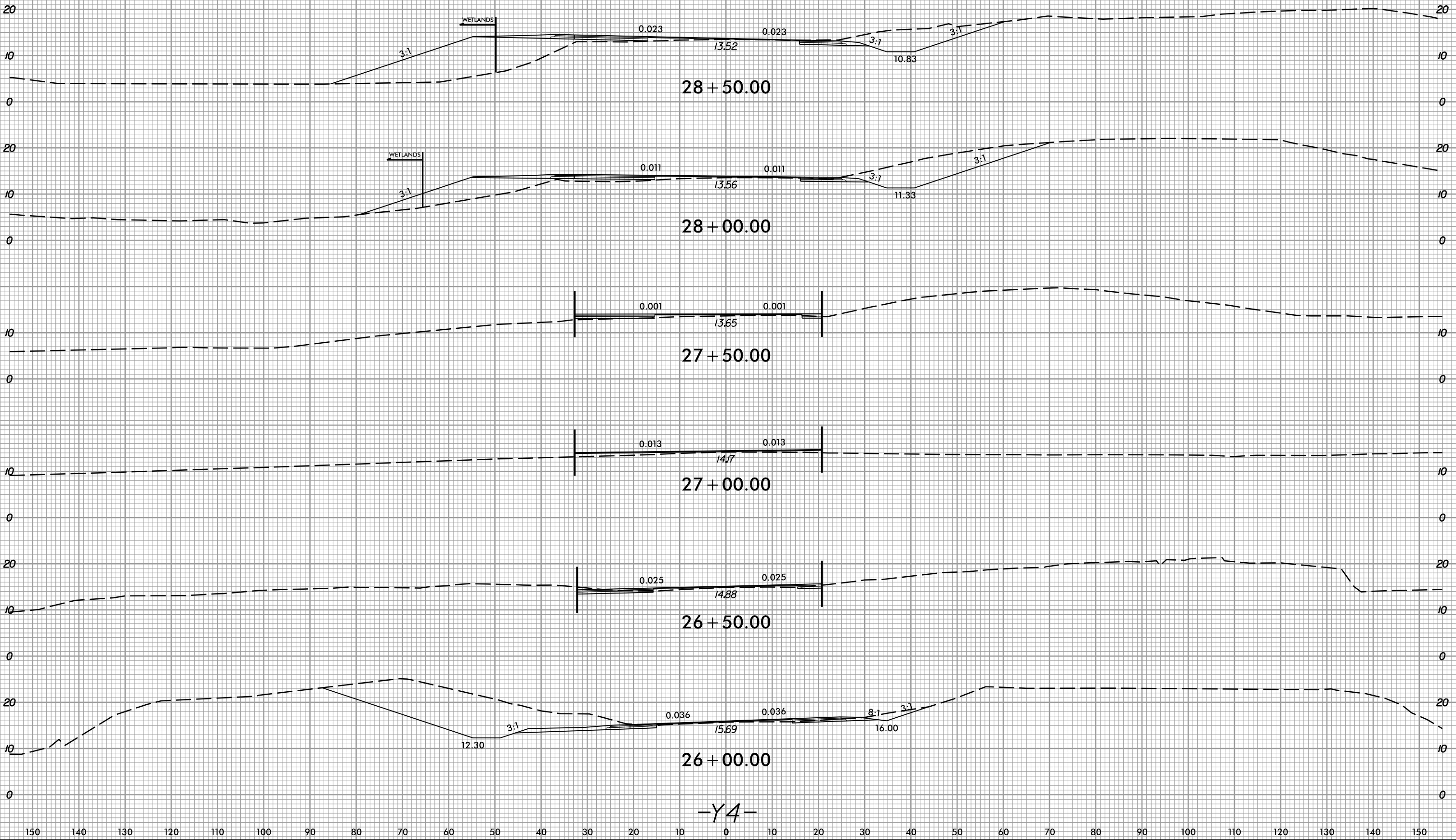


SEE SHEET 48 FOR -Y4- PROFILE
SEE SHEET 49 FOR -Y4A- PROFILE



SITE 11

PERMIT DRAWING
SHEET 51 OF 55



**PERMIT DRAWING
SHEET 54 OF 55**

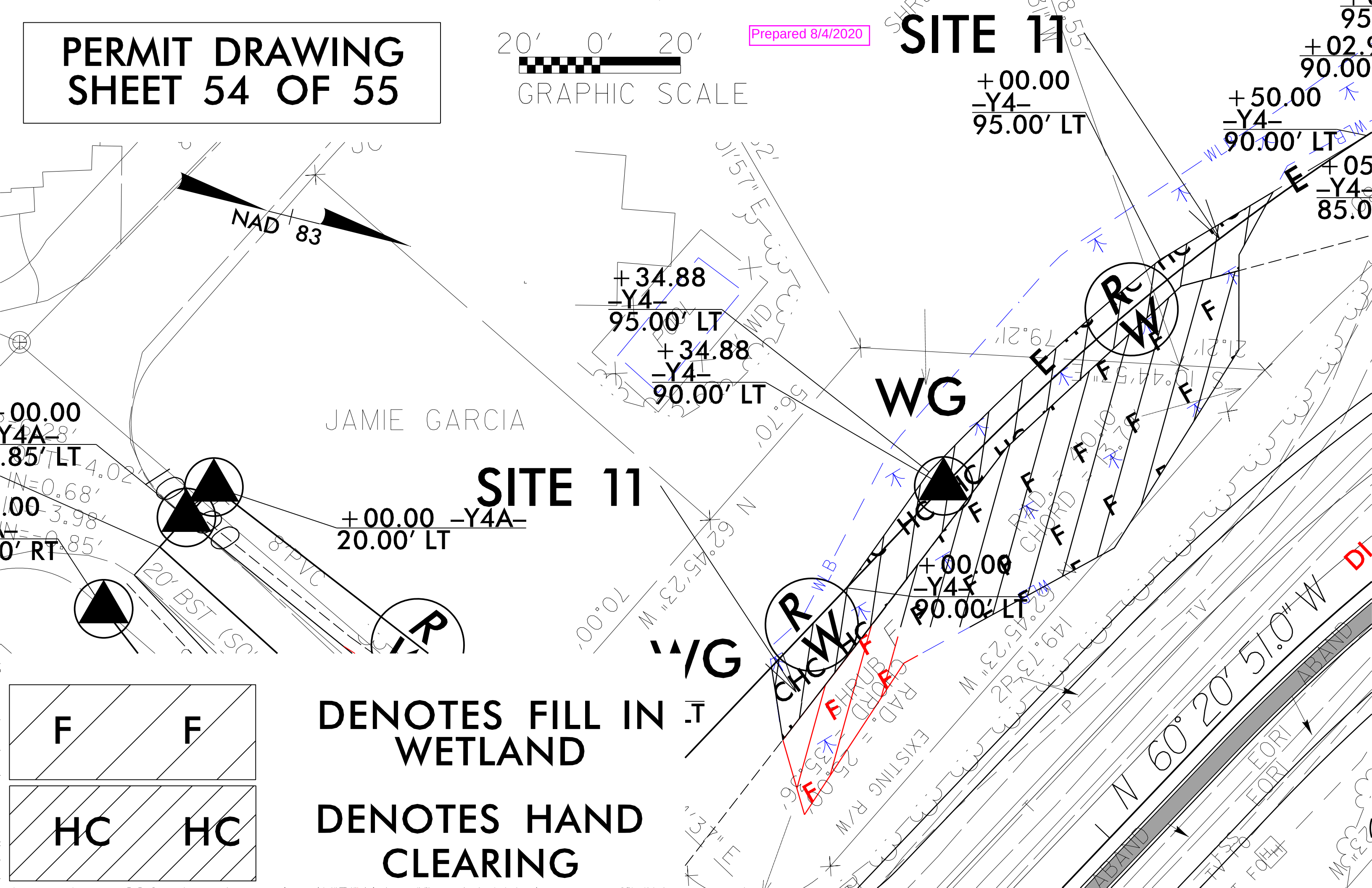
20' 0' 20'



GRAPHIC SCALE

Prepared 8/4/2020

SITE 11



WETLAND AND SURACE WATER IMPACTS SUMMARY												
			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1A	-Y- 40+26 to 42+66 LT	Fill with Toe Protection	0.02				0.05					
1B	-Y- 21+00 to 24+60 LT	Fill with Toe Protection	0.02				0.07					
1C	-Y- 68+65 to 73+00 LT	RipRap outlet/Proximity to Fill	< 0.01				0.02					
1D	-Y- 86+54 to 90+39 LT	2@42"x29" CAAP outlet	< 0.01				0.02					
2	-Y- 55+45	42" RCP-IV						0.04	< 0.01	228	9	
		Bank Stabilization						< 0.01		10		
3	-L- 23+00 to 100+60	Bridge	0.07	4.52		0.09	10.84					
4	-L- 119+00 to 364+00	Bridge										
		Shoreline Stabilization						0.07		233		
5	-Y4- 39+64 to -Y5R- 14+38 LT	Fill in Pond	0.26				0.08	0.04	0.02			
6	-Y5- 10+76 to 10+97 LT	Fill slope	< 0.01				0.01					
7	-Y5- 11+74 to 12+01 LT	Fill	< 0.01				0.01					
8	-Y1A- 24+40 to 24+90 LT/RT	new road	0.03				< 0.01					
9	-Y- 91+27 to 99+90 RT	Fill with Toe Protection	0.19				0.19					
10	-Y- 93+78 to 98+03 LT	Fill with Toe Protection	0.08				0.09					
11	-Y4- 27+50 to 29+13 LT	Fill slope	0.09				0.04					
TOTALS*:			0.76	4.52		0.09	11.43	0.14	0.02	471	9	0

*Rounded totals are sum of actual impacts

NOTES:

Site 1 includes the entire wetland along the Y line (except near end of construction, North side of project)
Site 3 takes into account 1000' of 80' wide temp impacts due to matting at the beginning of the bridge, and 760' at the end.
Site 4 includes 2 temporary bridges for 1750' at the start of the bridge and a single temporary bridge for 4000' at the end.
Site 4 includes 0.374 acres of Surface Water Impacts from bents and 0.132 acres of Temporary Surface Impacts.
0.13 Ac. of Temporary Fill will be provided for Hand Clearing areas for Erosion Control Devices.
All Wetlands are 404 (No CAMA Wetlands are Impacted)

Prepared 8/4/2020

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
7/30/2020
Currituck Co.
R-2576