

8/17/99

8/28/2018
R:\Projects\CP4C_Merger_Meeting\B-4863.hyd.dsh.Closed Deck Drain Comparison.dgn
4:03 PM

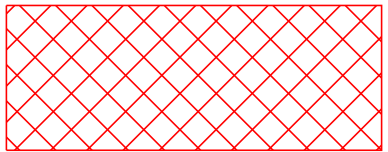
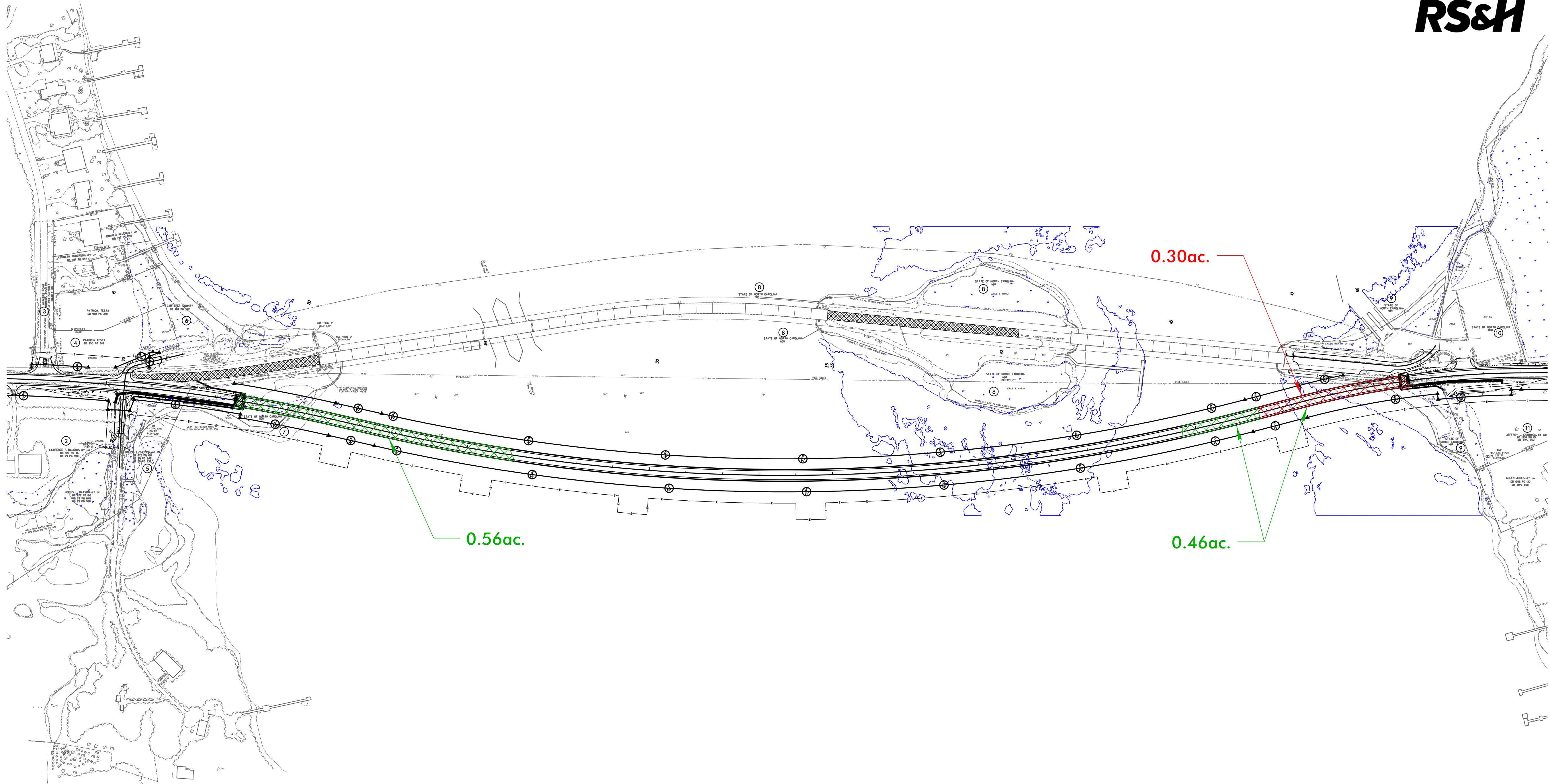
REVISIONS

CLOSED DECK DRAINAGE SYSTEM EXTENTS

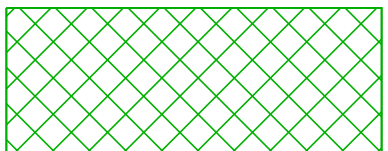
NAD 83/NA 2011

PROJECT REFERENCE NO.		SHEET NO.	
B-4863		4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

RS&H



DENOTES TREATED CLOSED DECK DRAINAGE FROM CP4B MEETING



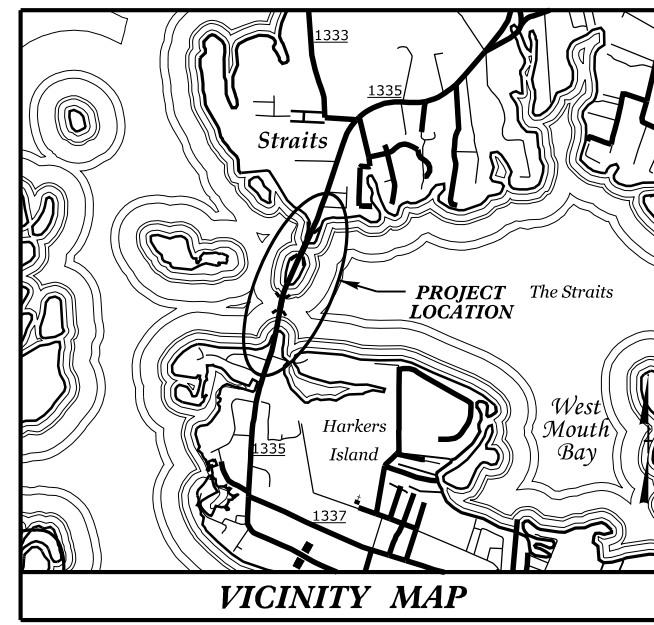
DENOTES UPDATED TREATED CLOSED DECK DRAINAGE (INCLUDES PREVIOUS CLOSED DECK DRAINAGE FROM CP4B)

09/08/19 30-AUG-2018 08:09 R:\Hydraulics\PERMITS_Environmental\Standard Permit\Drawings\B4863_hyd_prm_01.tsh.dgn

TIP PROJECT: B-4863

CONTRACT:

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CARTERET COUNTY

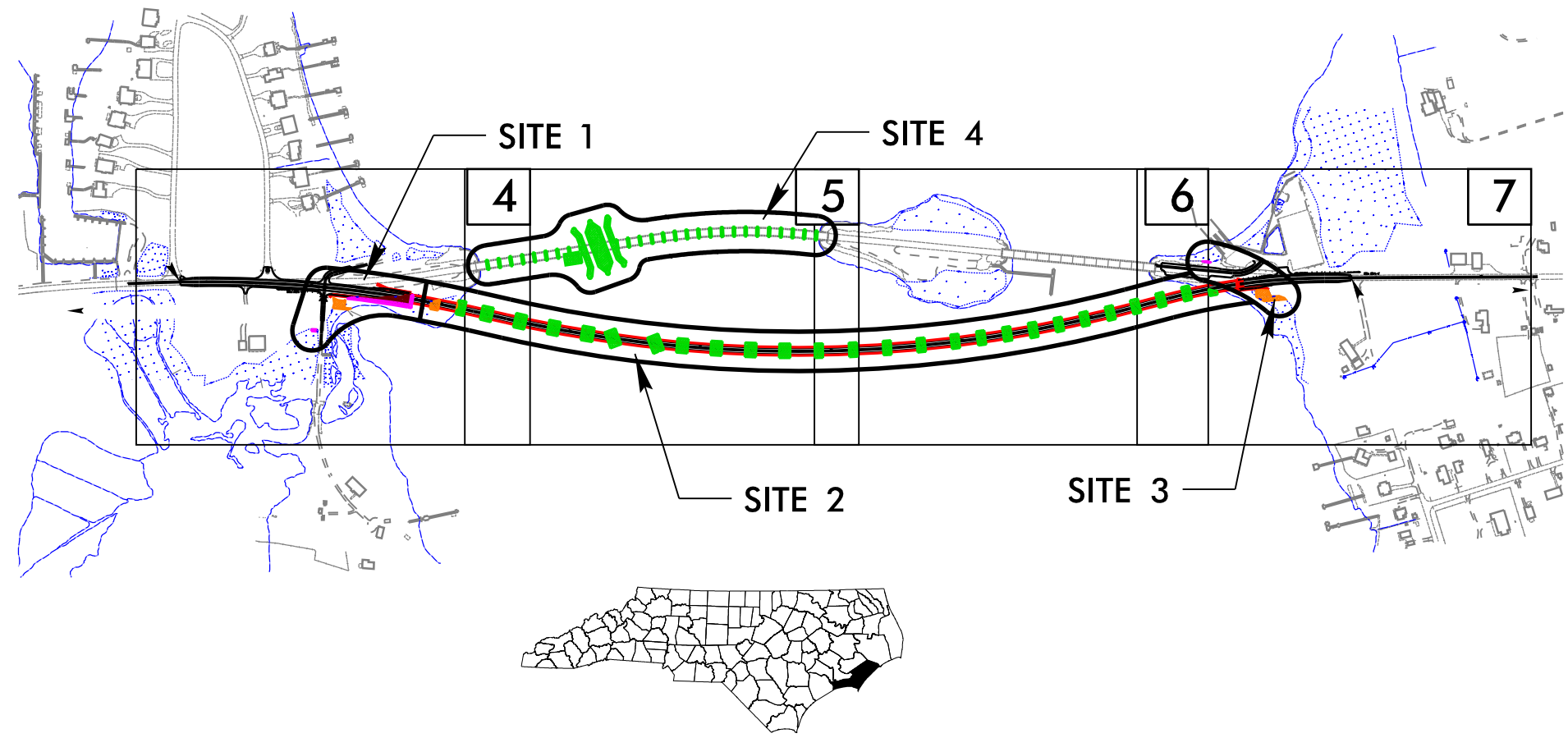
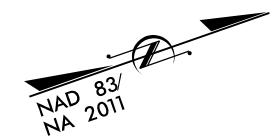
LOCATION: REPLACEMENT OF BRIDGE NOS. 73 AND 96 CARRYING
SR 1335 (HARKERS ISLAND RD) OVER THE STRAITS

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

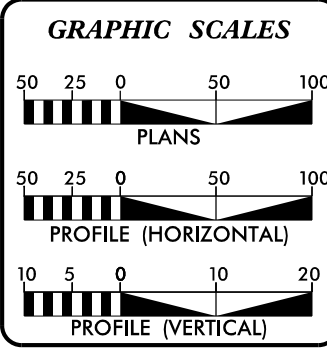
WETLAND AND SURFACE WATER IMPACTS PERMIT

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4863	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
40212.1.3	N/A	PE, RW, UTL	

PERMIT DRAWING
SHEET 1 OF 15



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2019 =	3,300
ADT 2040 =	4,200
K =	10 %
D =	60 %
T =	4 % *
V =	50 MPH
*(TTST=2% + DUAL=2%)	
FUNC CLASS =	MAJOR
COLLECTOR	

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4863	=	0.247 MILE +/-
LENGTH STRUCTURE TIP PROJECT B-4863	=	0.606 MILE +/-
TOTAL LENGTH TIP PROJECT B-4863	=	0.853 MILE +/-

PLANS PREPARED BY:

RS&H 1520 SOUTH BLVD, SUITE 200
CHARLOTTE, NC 28203
704-752-0610

FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JULY 10, 2018

LETTING DATE:
OCTOBER 15, 2019

JENNIFER FARINO, PE
PROJECT ENGINEER

DREW MORROW, PE
PROJECT DESIGN ENGINEER

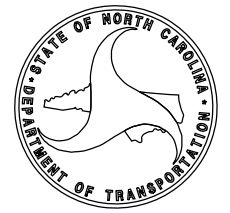
MARIA ROGERSON, PE
NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



8/17/99

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PERMITS-Environmental\Standard
30-AUG-2018 08:10
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PERMITS-Environmental\Standard

REVISIONS

NAD 83/NA 2011

SITE 1

BEGIN PROJECT
B-4863 -L- Sta. 10+00.00

DO NOT DISTURB
EXIST. STONE COLUMN

DO NOT DISTURB
EXIST. STONE COLUMN

END CONSTRUCTION
-DRIVE- Sta. 11+40.00

END CONSTRUCTION
-Y- Sta. 11+60.00

PERMIT DRAWING
SHEET 2 OF 15

SITE 4

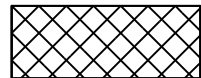
RIGHT SIDE APPROACH:
PLACE 6" DECK DRAINS AS FOLLOWS:
-L- STA. 21+31 RT TO -L- STA. 21+67 RT @ 12' CTS. AND
-L- STA. 21+71 RT TO -L- STA. 21+83 RT @ 12' CTS. AND
-L- STA. 21+87 RT TO -L- STA. 21+99 RT @ 4' CTS.
NOTE: ALL DECK DRAINS ON THE BRIDGE APPROACH SIDE ARE PART
OF A CLOSED DECK DRAINAGE SYSTEM, EXCEPT FOR THE TWO
HORIZONTAL DECK DRAINS @ -L- STA. 26+03 AND 26+15

PROJECT REFERENCE NO.	SHEET NO.
B-4863	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

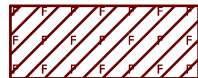
MATCH TO SHEET 5 -L- STA. 22+00

EXIST. SUBAQUATIC VEGETATION (SAV) BOUNDARY
(AS SURVEYED ON JULY 27, 2017)

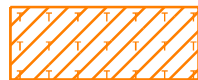
SITE 2



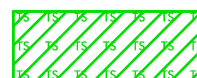
TEMPORARY WORK
PLATFORM



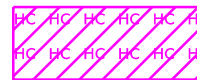
DENOTES FILL IN
WETLAND



DENOTES TEMPORARY
FILL IN WETLAND



DENOTES TEMPORARY
IMPACTS IN SURFACE WATER



DENOTES HAND
CLEARING

50' 0' 50'

PERMIT DRAWING
SHEET 3 OF 15

SITE 4

RIGHT SIDE APPROACH:

PLACE 6" DECK DRAINS AS FOLLOWS:

-L	STA 21+31	RT	-L	STA 21+67	RT	@	12' CTS. AND
-L	STA 21+71	RT	-L	STA 21+83	RT	@	12' CTS. AND
-L	STA 21+87	RT	-L	STA 21+99	RT	@	4' CTS.

NOTE: ALL DECK DRAINS ON THE BRIDGE APPROACH SIDE ARE PART OF A CLOSED DECK DRAINAGE SYSTEM EXCEPT FOR THE TWO HORIZONTAL DECK DRAINS @ -L STA. 26+03 AND 26+15

NAD 83/NA 2011

SITE 1

BEGIN PROJECT
B-4863 -L- Sta. 10+00.00

DO NOT DISTURB
EXIST. STONE COLUMN

END CONSTRUCTION
-DRIVE- Sta. 11+40.00

DO NOT DISTURB
EXIST. STONE COLUMN

END CONSTRUCTION
-Y- Sta./11+60.00

EXIST. SUBAQUATIC VEGETATION (SAV) BOUNDARY
(AS SURVEYED ON JULY 27, 2017)

RECORDS
LINES FOUND
WATER VALVE

MATCH TO SHEET 5 -L- STA. 22+00

SITE 2

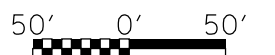
TEMPORARY WORK
PLATFORM

DENOTES FILL IN WETLAND

 DENOTES TEMPORARY
FILL IN WETLAND

**DENOTES TEMPORARY
IMPACTS IN SURFACE WATER**

✱ DENOTES HAND CLEARING



REVISIONS

8/17/99

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Permit\Drawings\B4863_hyd_prm_04_psh_05.dgn

REVISIONS

MATCH TO SHEET 4 -L- STA. 22+00

LEFT SIDE APPROACH:

PLACE 6" DECK DRAINS AS FOLLOWS:
-L- STA. 22+07 LT TO -L- STA. 22+23 LT @ 4' CTS. AND
-L- STA. 22+31 LT TO -L- STA. 22+55 LT @ 8' CTS. AND
-L- STA. 22+67 LT TO -L- STA. 24+23 LT @ 8' CTS. AND
-L- STA. 24+47 LT TO -L- STA. 25+55 LT @ 12' CTS. AND
-L- STA. 26+03 LT TO -L- STA. 26+15 LT @ 12' CTS.

*HORIZONTAL DECK DRAINS ARE TO BE USED INSTEAD OF VERTICAL DECK DRAINS @ -L- STA. 26+03 AND 26+15

NOTE: ALL DECK DRAINS ON THE BRIDGE APPROACH SIDE ARE PART OF A CLOSED DECK DRAINAGE SYSTEM, EXCEPT FOR THE TWO HORIZONTAL DECK DRAINS @ -L- STA. 26+03 AND 26+15

BENT 4 STA 23+06.50

BENT 5 STA 24+36.75

BENT 6 STA 25+67.00

BENT 7 STA 26+65.73

BENT 8 STA 28+29.94

BENT 9 STA 29+31.75

BENT 10 STA 30+62.00

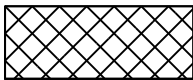
BENT 11 STA 31+92.25

BENT 12 STA 33+22.25

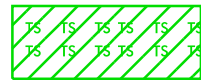
BENT 13 STA 34+52.25

TEMPORARY CONSTRUCTION EASEMENT FOR
40' TEMPORARY WORK PLATFORM WITH 10'
CLEARANCE TO PROPOSED BRIDGE

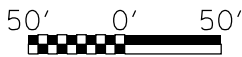
SITE 2



TEMPORARY WORK
PLATFORM



DENOTES TEMPORARY
IMPACTS IN SURFACE WATER



NAD 83/NA 2011

SITE 4

PERMIT DRAWING
SHEET 4 OF 15

PROJECT REFERENCE NO.	SHEET NO.
B-4863	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

RS&H

MATCH TO SHEET 6 -L- STA. 35+00

8/17/99

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USER:NAME

REVISIONS

MATCH TO SHEET 4 -L- STA. 22+00

LEFT SIDE APPROACH:

PLACE 6" DECK DRAINS AS FOLLOWS:
-L- STA. 22+07 LT TO -L- STA. 22+23 LT @ 4' CTS. AND
-L- STA. 22+31 LT TO -L- STA. 22+55 LT @ 8' CTS. AND
-L- STA. 22+67 LT TO -L- STA. 24+23 LT @ 8' CTS. AND
-L- STA. 24+47 LT TO -L- STA. 25+15 LT @ 12' CTS. AND
-L- STA. 26+03 LT TO -L- STA. 26+15 LT @ 12' CTS.

*HORIZONTAL DECK DRAINS ARE TO BE USED INSTEAD OF VERTICAL DECK DRAINS @ -L- STA. 26+03 AND 26+15

NOTE: ALL DECK DRAINS ON THE BRIDGE APPROACH SIDE ARE PART OF A CLOSED DECK DRAINAGE SYSTEM, EXCEPT FOR THE TWO HORIZONTAL DECK DRAINS @ -L- STA. 26+03 AND 26+15

BENT 4 STA 23+06.50

BENT 5 STA 24+36.75

BENT 6 STA 25+67.00

BENT 7 STA 26+65.73

BENT 8 STA 28+29.94

BENT 9 STA 29+31.75

BENT 10 STA 30+62.00

BENT 11 STA 31+92.25

BENT 12 STA 33+22.25

BENT 13 STA 34+52.25

SITE 2

SITE 4

NAD 83/NA 2011

PERMIT DRAWING
SHEET 5 OF 15

PROJECT REFERENCE NO.	SHEET NO.
B-4863	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

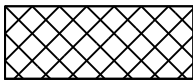
RS&H

LEFT SIDE TRAILING:

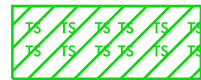
PLACE 6" DECK DRAINS AS FOLLOWS:
-L- STA. 28+93** LT TO -L- STA. 29+05** LT @ 12' CTS. AND
-L- STA. 29+53 LT TO -L- STA. 31+69 LT @ 24' CTS. AND
-L- STA. 32+17 LT TO -L- STA. 37+21 LT @ 24' CTS. AND

**HORIZONTAL DECK DRAINS ARE TO BE USED INSTEAD OF VERTICAL DECK DRAINS @ -L- STA. 28+93 AND 29+05

TEMPORARY CONSTRUCTION EASEMENT FOR
40' TEMPORARY WORK PLATFORM WITH 10'
CLEARANCE TO PROPOSED BRIDGE



TEMPORARY WORK
PLATFORM



DENOTES TEMPORARY
IMPACTS IN SURFACE WATER

50' 0' 50'

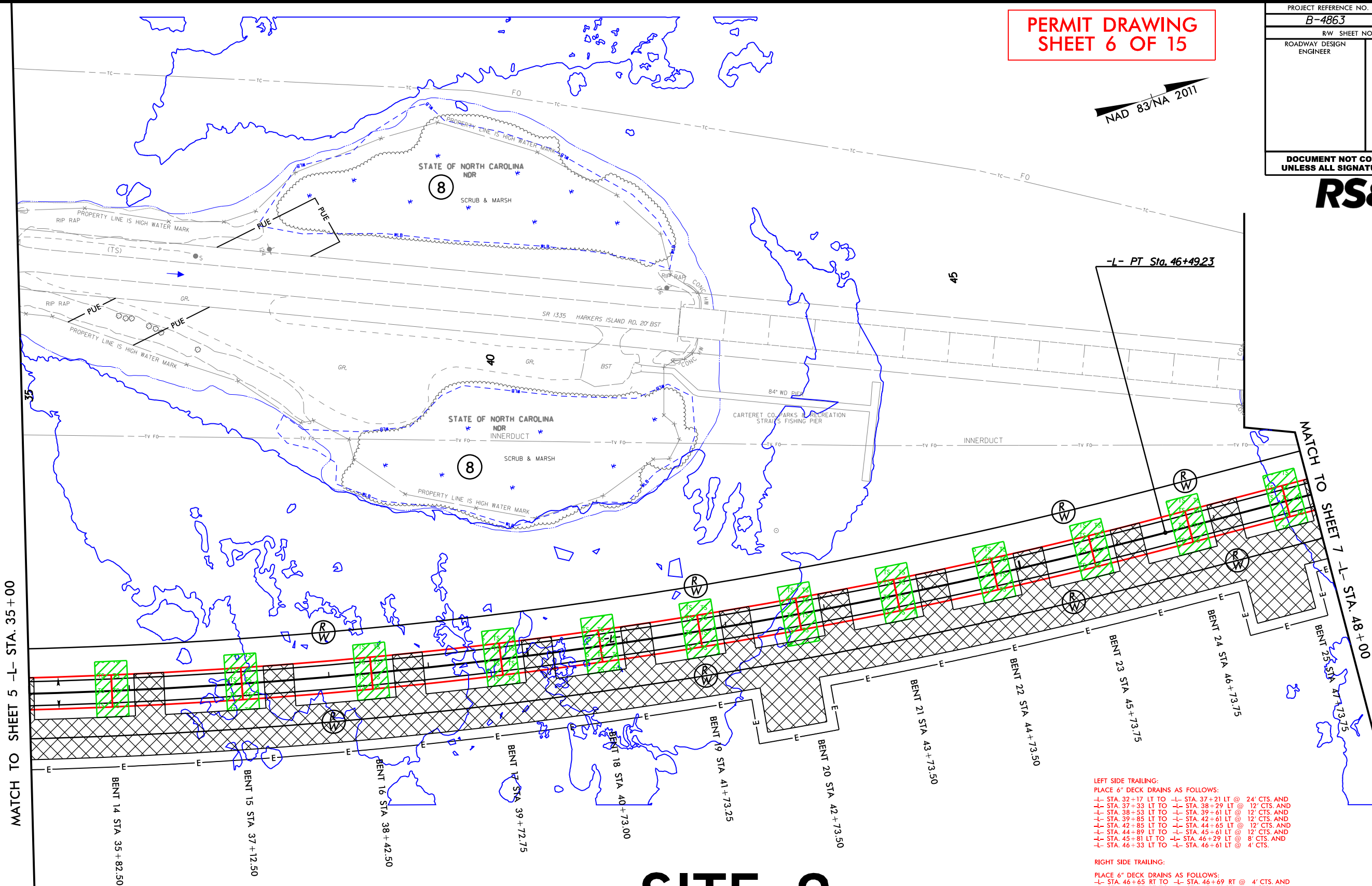
MATCH TO SHEET 6 -L- STA. 35+00

8/17/99

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REVISIONS

MATCH TO SHEET 5 -L- STA. 35+00



PERMIT DRAWING
SHEET 6 OF 15

NAD 83/NA 2011

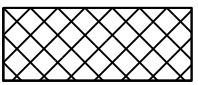
PROJECT REFERENCE NO.	SHEET NO.
B-4863	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

RS&H

-L- PT Sta. 46+49.23

MATCH TO SHEET 7 -L- STA. 48+00

SITE 2



TEMPORARY WORK
PLATFORM



DENOTES TEMPORARY
IMPACTS IN SURFACE WATER

50' 0' 50'

LEFT SIDE TRAILING:
PLACE 6" DECK DRAINS AS FOLLOWS:
-L- STA. 32+17 LT TO -L- STA. 37+21 LT @ 24' CTS. AND
-L- STA. 37+33 LT TO -L- STA. 38+29 LT @ 12' CTS. AND
-L- STA. 38+53 LT TO -L- STA. 39+61 LT @ 12' CTS. AND
-L- STA. 39+85 LT TO -L- STA. 42+61 LT @ 12' CTS. AND
-L- STA. 42+85 LT TO -L- STA. 44+65 LT @ 12' CTS. AND
-L- STA. 44+89 LT TO -L- STA. 45+61 LT @ 12' CTS. AND
-L- STA. 45+81 LT TO -L- STA. 46+29 LT @ 8' CTS. AND
-L- STA. 46+33 LT TO -L- STA. 46+61 LT @ 4' CTS.

RIGHT SIDE TRAILING:
PLACE 6" DECK DRAINS AS FOLLOWS:
-L- STA. 46+65 RT TO -L- STA. 46+69 RT @ 4' CTS. AND
-L- STA. 46+77 RT TO -L- STA. 47+01 RT @ 4' CTS. AND
-L- STA. 47+13 RT TO -L- STA. 49+05 RT @ 24' CTS.

NOTES: DECK DRAINS FROM -L- STA. 44+65 LT TO 46+61 LT ARE
PART OF A CLOSED DECK DRAINAGE SYSTEM.

DECK DRAINS FROM -L- STA. 46+65 RT TO 49+05 RT ARE PART OF
A CLOSED DECK DRAINAGE SYSTEM.

8/17/99

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REVISIONS

PERMIT DRAWING
SHEET 7 OF 15

NAD 83/NA 2011

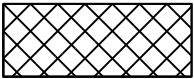
PROJECT REFERENCE NO.	SHEET NO.
B-4863	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

RS&H

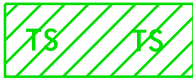
MATCH TO SHEET 5 -L- STA. 35+00

MATCH TO SHEET 7 -L- STA. 48+00

SITE 2



TEMPORARY WORK
PLATFORM



DENOTES TEMPORARY
IMPACTS IN SURFACE WATER

50' 0' 50'

LEFT SIDE TRAILING:

PLACE 6" DECK DRAINS AS FOLLOWS:

- L- STA. 32+17 LT TO -L- STA. 37+21 LT @ 24' CTS. AND
- L- STA. 37+33 LT TO -L- STA. 38+29 LT @ 12' CTS. AND
- L- STA. 38+33 LT TO -L- STA. 38+61 LT @ 12' CTS. AND
- L- STA. 39+85 LT TO -L- STA. 42+61 LT @ 12' CTS. AND
- L- STA. 42+85 LT TO -L- STA. 44+65 LT @ 12' CTS. AND
- L- STA. 44+89 LT TO -L- STA. 45+61 LT @ 12' CTS. AND
- L- STA. 45+81 LT TO -L- STA. 46+29 LT @ 8' CTS. AND
- L- STA. 46+33 LT TO -L- STA. 46+61 LT @ 4' CTS.

RIGHT SIDE TRAILING:

PLACE 6" DECK DRAINS AS FOLLOWS:

- L- STA. 46+65 RT TO -L- STA. 46+69 RT @ 4' CTS. AND
- L- STA. 46+77 RT TO -L- STA. 47+01 RT @ 4' CTS. AND
- L- STA. 47+13 RT TO -L- STA. 49+05 RT @ 24' CTS.

NOTES: DECK DRAINS FROM -L- STA. 44+65 LT TO 46+61 LT ARE PART OF A CLOSED DECK DRAINAGE SYSTEM.

DECK DRAINS FROM -L- STA. 46+65 RT TO 49+05 RT ARE PART OF A CLOSED DECK DRAINAGE SYSTEM.

PERMIT DRAWING
SHEET 8 OF 15

NAD 83/NA 2011

END PROJECT
B-4863 STA. 55+05.00
END CONSTRUCTION
B-4863 STA. 55+40.00

END GRADE
-PARK- Sta. 14+14.8

BEGIN GRADE
-PARK- Sta. 10+20.00

MATCH TO SHEET 6 -L- STA. 48 + 00

BENT 26 STA 48+74.00

SITE 2

SITE 3

RIGHT SIDE TRAILING:
PLACE 6" DECK DRAINS AS FOLLOWS:
-L- STA. 47+13 RT TO -L- STA. 49+05 RT @ 24' CTS.
DECK DRAINS FROM -L- STA. 46+65 RT TO 49+05 RT ARE PART OF A CLOSED DECK DRAINAGE SYSTEM.

DENOTES TEMPORARY FILL IN WETLAND

DENOTES TEMPORARY IMPACTS IN SURFACE WATER

DENOTES HAND CLEARING

TEMPORARY WORK PLATFORM

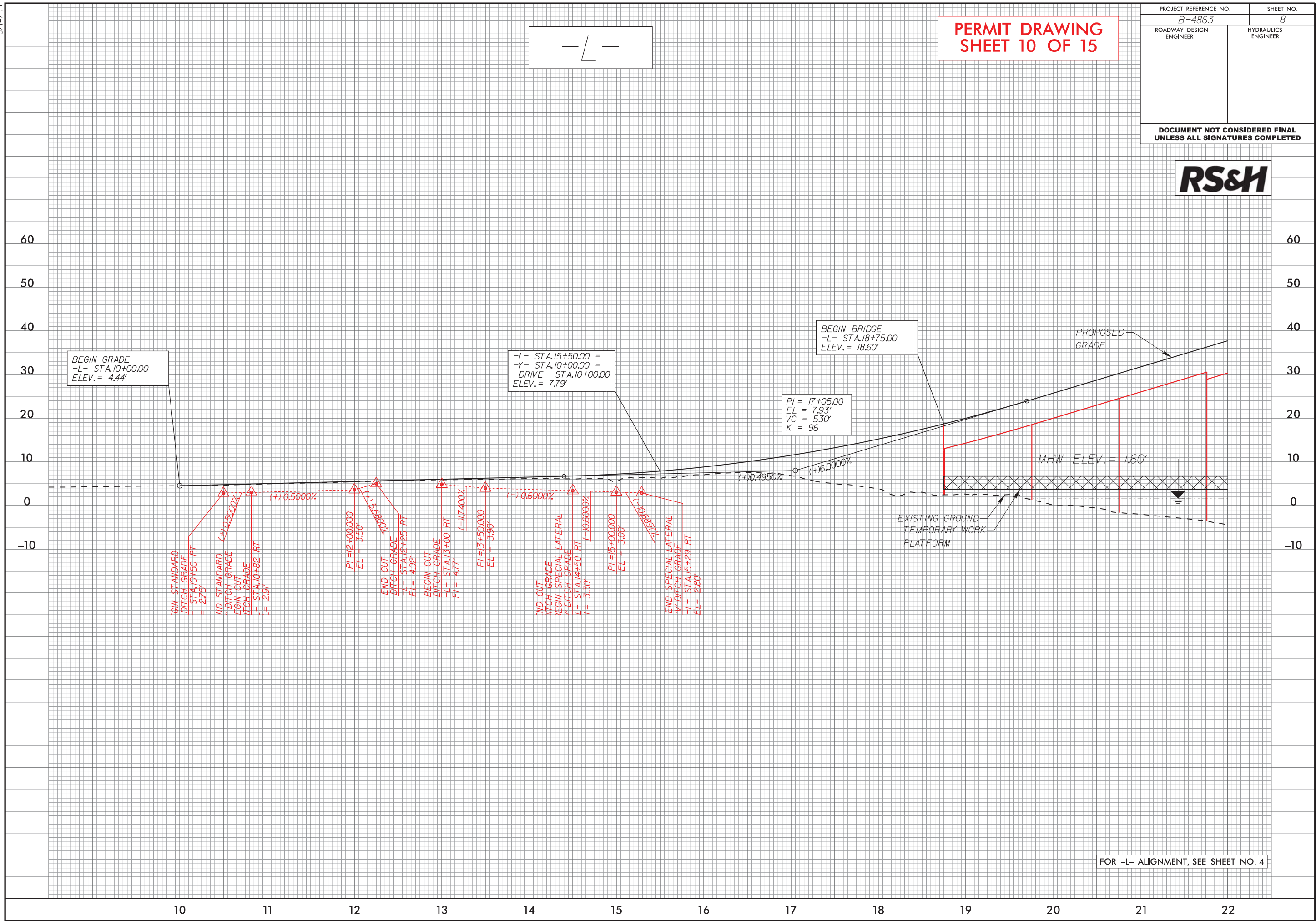
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-L-

PERMIT DRAWING
SHEET 10 OF 15

PROJECT REFERENCE NO.		SHEET NO.
B-4863		8
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	



5/14/99

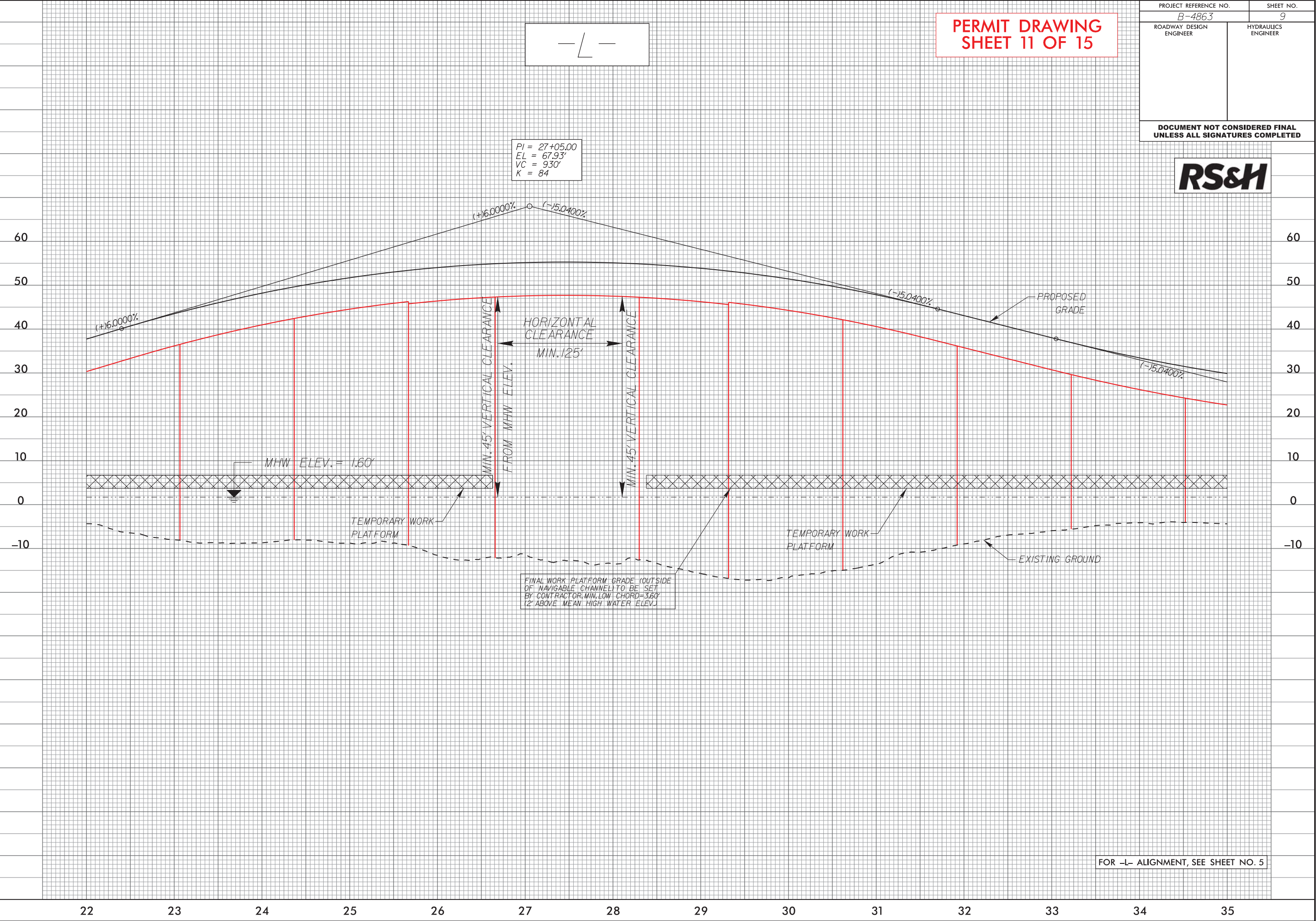
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PERMIT DRAWING
SHEET 11 OF 15

PROJECT REFERENCE NO.		SHEET NO.	
B-4863		9	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

RS&H



5/14/99

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PERMIT DRAWING
SHEET 12 OF 15

PROJECT REFERENCE NO.		SHEET NO.	
B-4863		10	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

RS&H

60

50

40

30

20

10

0

-10

PI = 35+30.00
EL = 26.35'
VC = 450'
K = 99

(+15.0400%)
(+10.5000%)

PI = 46+90.00
EL = 20.55'
VC = 250'
K = 120

(-10.5000%) (-12.5792%)

PROPOSED
GRADE

MHW ELEV. = 1.60'

TEMPORARY WORK
PLATFORM

EXISTING GROUND

60

50

40

30

20

10

0

-10

FOR —L— ALIGNMENT, SEE SHEET NO. 6

35

36

37

38

39

40

41

42

43

44

45

46

47

48

5/14/99

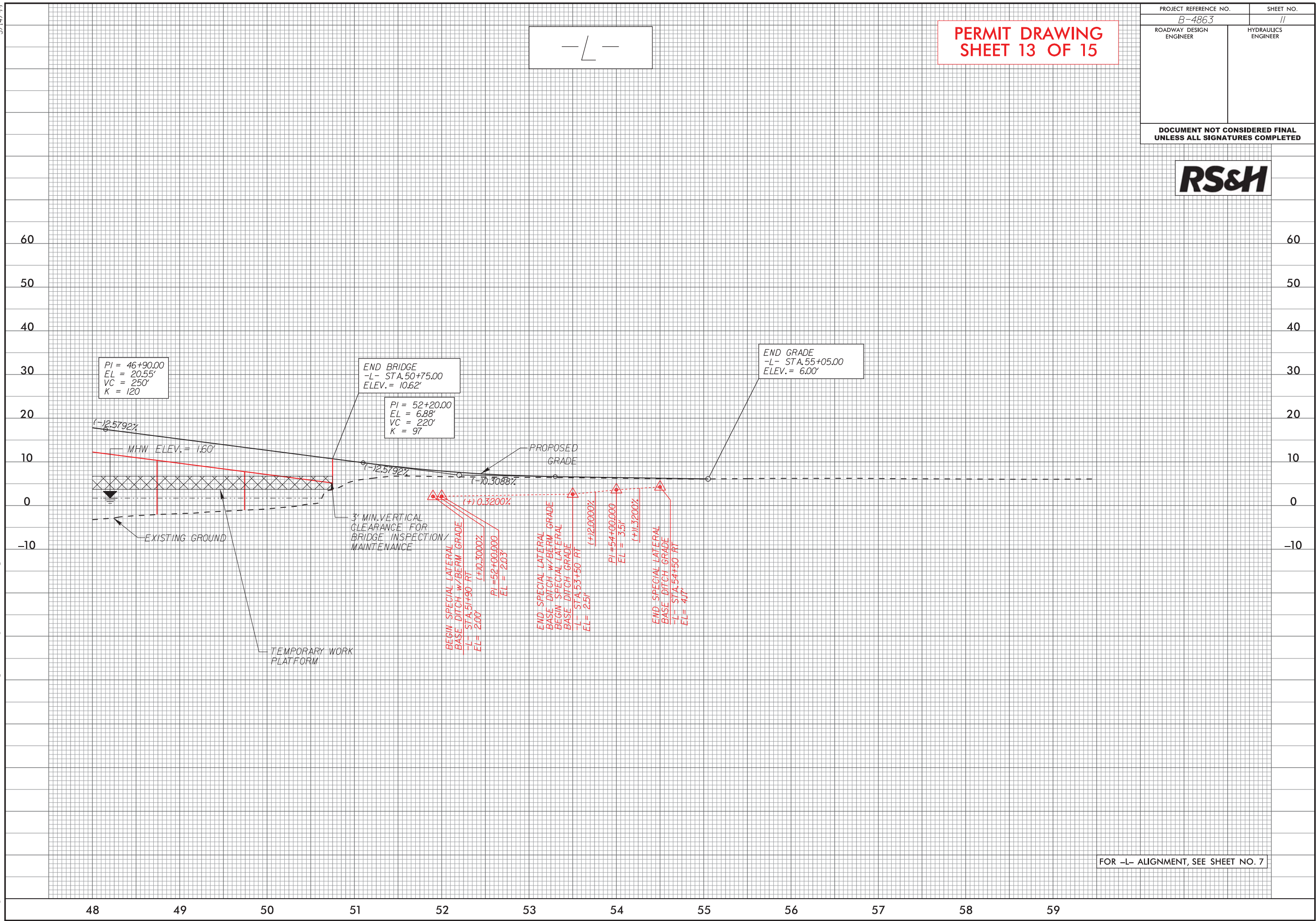
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-L-

PERMIT DRAWING
SHEET 13 OF 15

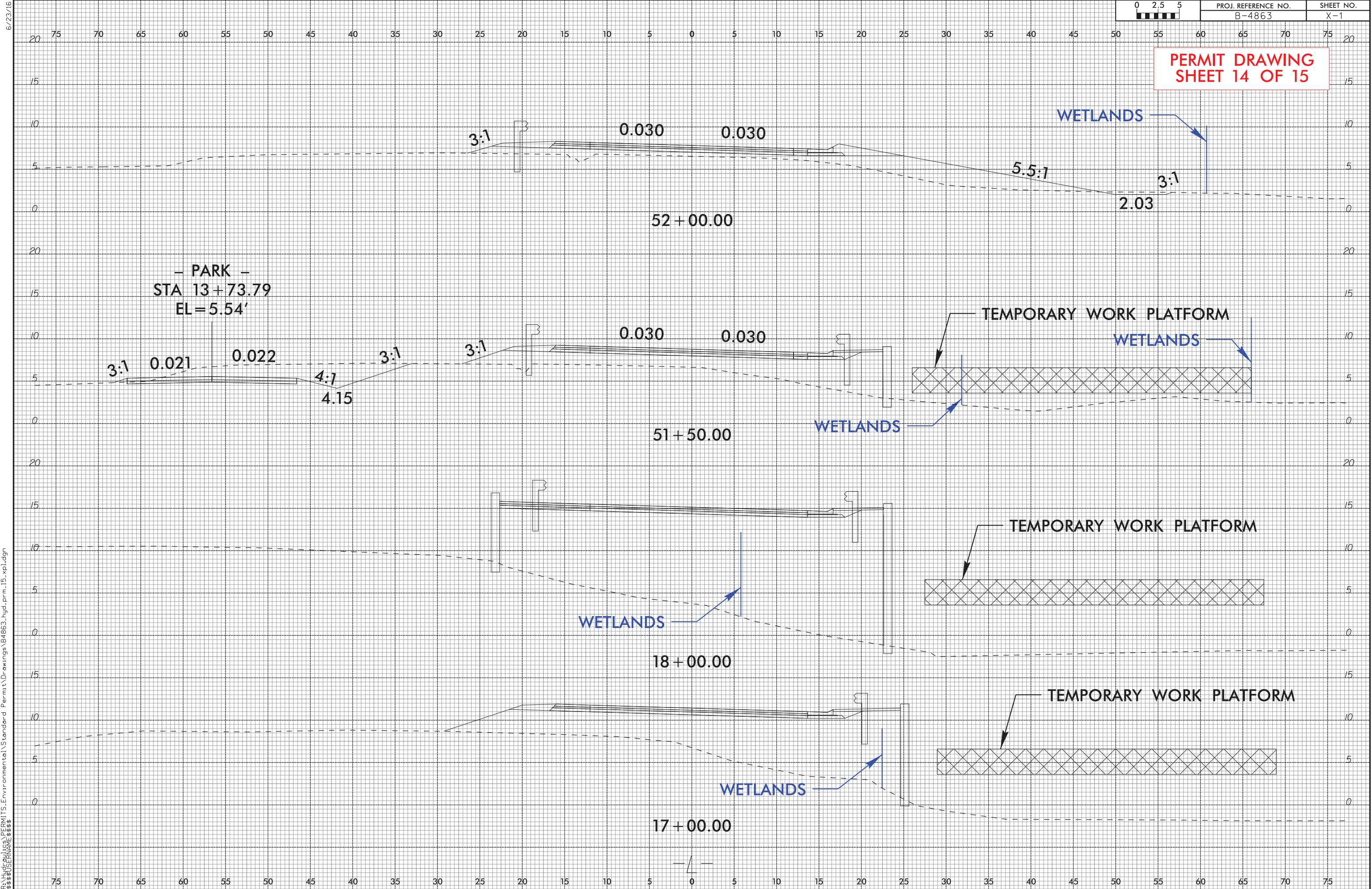
PROJECT REFERENCE NO.		SHEET NO.	
B-4863		11	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

RS&H



6/23/16

PERMIT DRAWING
SHEET 14 OF 15



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)
1	-Y- 11+66 RT	Prop Rip Rap Pad Instal					< 0.01					
1	-L- 15+90 to 16+60 RT	Temp Work Platform Access		0.04								
1	-L- 16+40 to 18+90	Prop Bridge Approach	0.07				0.07					
2	-L- 18+90 to 15+50	Proposed Bridge	< 0.01	0.04				0.02	1.39			
2	-L- 16+35 to 51+37	Temp Work Platform							0.56			
3	-L- 49+72 LT	Parking Lot Clearing Limits					< 0.01					
3	-L- 51+37 to 52+50 RT	Temp Work Platform Access		0.06								
4	-L- 21+20 to 34+75 LT	Existing Bridge Removal							0.72			
TOTALS*:			0.07	0.14			0.08	0.02	2.67	0	0	0

*Rounded totals are sum of actual impacts

NOTES:

Total Permanent SW Impacts = 767 sq.ft.

Total Permanent Fill in Wetlands = 2,943 sq.ft.

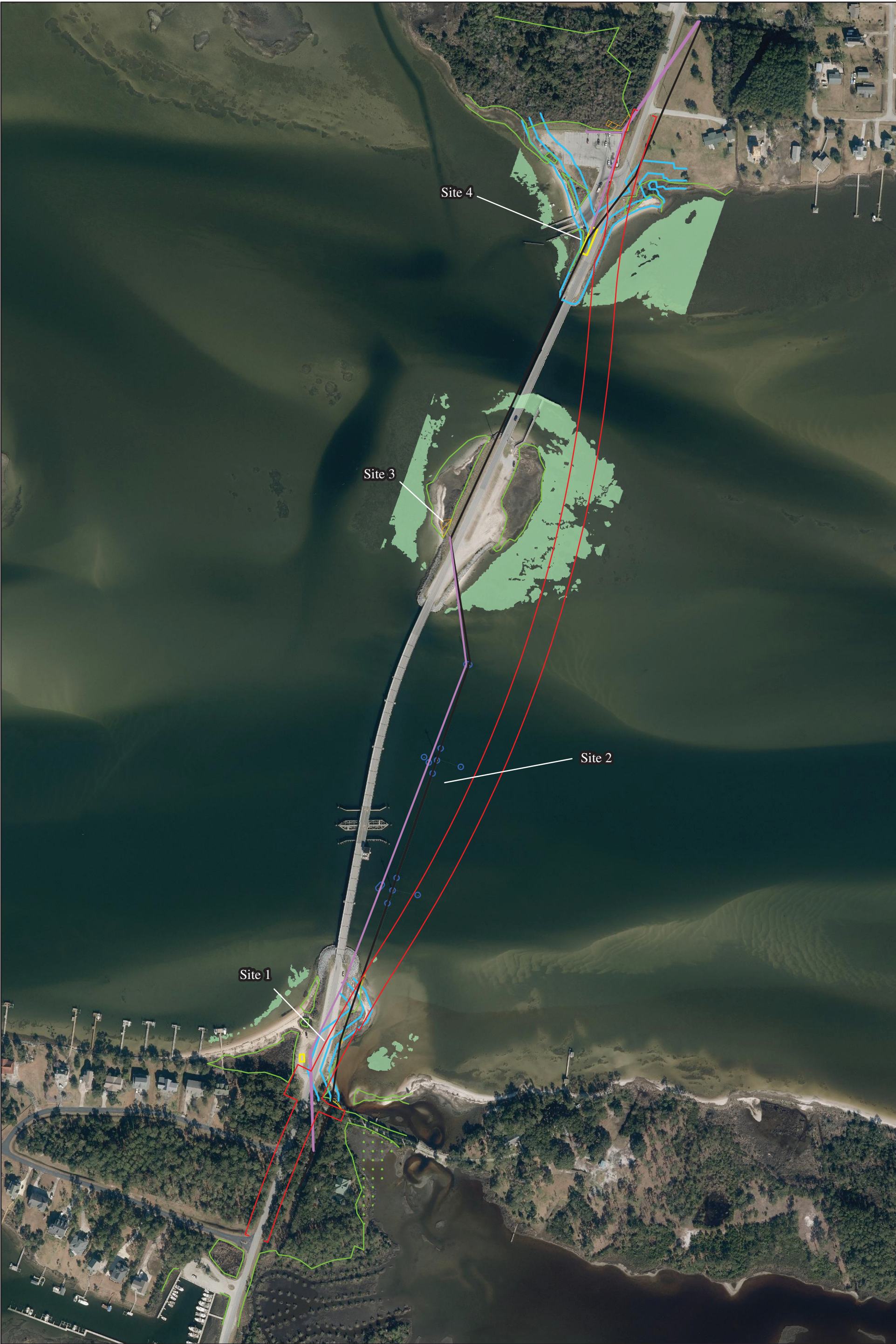
Total Hand Clearing = 3,270 sq.ft.

Temp Work Platform

20' spans @ 3,080' = 156 pile rows. Each Pile Row has 100 sq.ft. of Temp SW Impacts. Main platform has 156*100 sq.ft = 15,600 sq.ft. Temp SW Impacts

Finger and Turnarounds calculated by the same method with 6,075 sq.ft and 2,700 sq.ft. of Temp SW Impacts respectively. Total = 15,600 + 6,075 + 2,700 = 24,375 sq.ft.

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
8/30/18
Carteret County
B-4863
40212.1.3
SHEET 15 OF 15





N



0

170

340

Feet

Proposed Right of Way

Proposed Overhead Line

Existing Overhead Line

Power Pole / Guy Wire

Proposed Bore Pit

Proposed Hand Clearing

Wetland Boundary

SAV

2016 NC Statewide Aerial Photographs

Map Date: **July 2018**

Revised:

Revised:

Revised:

TIP B-4863
Carteret County, NC

Figure3: Proposed Utility
Relocation Impacts Sheet 1 of 5



0 30 60 Feet

- Impervious Surface as Permitted
- Proposed Impervious Surface
- Property Boundary
- Proposed Right of Way

2016 NC Statewide Aerial Photographs

Map Date: May 2018

Revised:

Revised:

Revised:

TIP B-4863
The Straits Landing
Carteret County

Figure: Proposed vs. Permitted