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8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
B-4863	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 030952 ENGINEER JENNIFER D. FARINO
4/7/2021

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 018442 ENGINEER RICHARD LEON BOLLINGER
4/7/2021

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RS&H
NC FIRM LICENSE No: F-0493

DETAIL A
STANDARD "V" DITCH
(Not to Scale)
Natural Ground, 6:1, D, 6:1, Natural Ground
DDE = 8 CY Min. D= 1.0 Ft.
FROM –L– STA. 10+50 TO STA. 10+82 RT

DETAIL B
CUT DITCH
(Not to Scale)
Natural Ground, 4:1, D, 4:1 or Flatter, Front Ditch Slope
Min. D= 1.0 Ft.
FROM –L– STA. 10+82 TO STA. 12+25 RT
FROM –L– STA. 13+00 TO STA. 14+50 RT

DETAIL C
SPECIAL LATERAL "V" DITCH
(Not to Scale)
Natural Ground, 4:1, D, 4:1 or Flatter, Fill Slope
Min. D= 2.0 Ft.
FROM –L– STA. 14+50 TO STA. 15+29 RT

DETAIL D
SPECIAL LATERAL BASE DITCH
(Not to Scale)
Natural Ground, 4:1, D, 4:1, B, Fill Slope
Min. D= 1.5 Ft. B= 4 Ft.
FROM –Y– STA. 10+50 TO STA. 11+30 RT

DETAIL E
STANDARD BASE DITCH
(Not to Scale)
Natural Ground, 4:1, D, 4:1, Natural Ground, B
Min. D= 0.5 Ft. B= 4 Ft. DDE = 8 CY
FROM –Y– STA. 11+30 TO STA. 11+60 RT

* NOTE: BEGIN CONSTRUCTION –L– STA 8+00. MILL AND OVERLAY EXISTING WITH 11/2" S9.5C FROM –L– STA 8+00 TO –L– STA 10+00 FOR TEMPORARY PAINT REMOVAL.

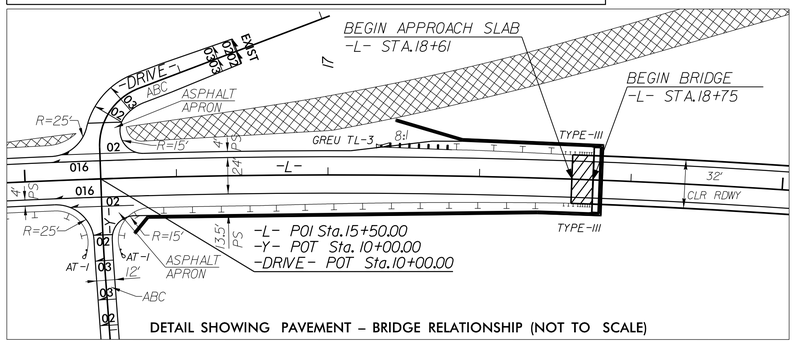
Δ IF CL II ROCK PLATING CAN NOT BE INSTALLED AND STABILIZED FROM –Y– 11+20 TO 11+60 AS SHOWN IN PLAN AND XSC DUE TO FIELD CONDITIONS BEING DIFFERENT THAN EXISTING TOPOGRAPHY IN SURVEY, EXTEND PROPOSED ROCK EMBANKMENT AT 1.5:1 SLOPE (MAX) UNTIL IT CAN BE EFFECTIVELY TIED INTO THE EXISTING GROUND. DO NOT EXTEND ROCK EMBANKMENT PAST POE.

NAD 83/NA 2011

-L- PT Sta. 10+00.00
RECONSTRUCTION OF EXIST. 24" CURB OUTSIDE OF PROP. RAIL LIMITS TO BE PERFORMED BY OTHERS
DO NOT DISTURB
HARKERS POINT CEMETERY PARCEL
BEGIN PROJECT *
B-4863 –L– Sta. 10+00.00
HARKERS POINT CEMETERY
DB 772 PG 212
DO NOT DISTURB EXIST. STONE COLUMN
-DRIVE- PT Sta. 10+70.68
DO NOT DISTURB EXIST. STONE COLUMN
-DRIVE- PC Sta. 10+21.00
REMOVE EXIST. WOOD POSTS
-DRIVE- POT Sta. 12+05.53
N 5° 54' 03.0" E
END CONSTRUCTION -DRIVE- Sta. 11+40.00
PROPOSED RETAINING WALL (AVG. HT. 13')
BRIDGE NO. 73 TO BE REMOVED
-L- PC Sta. 9+03.59
N 17° 04' 25.4" E
-L- PC Sta. 10+71.36
S 65° 16' 02.1" E
-L- POI Sta. 15+50.00
-Y- POT Sta. 10+00.00
-DRIVE- POT Sta. 10+00.00
-Y- PC Sta. 10+18.36
-Y- PT Sta. 10+67.01
END CONSTRUCTION -Y- Sta. 11+60.00
-Y- POT Sta. 12+24.72
-L- PT Sta. 21+23.86
N 32° 02' 21.6" E
S 67° 34' 51.1" E
FIELD LOCATED MHW
30' BUFFER FROM FIELD LOCATED MHW
LIMIT OF AREA OF ENVIRONMENTAL CONCERN (75' OFFSET FROM FIELD LOCATED MHW)
EXIST. SUBAQUATIC VEGETATION (SAV) BOUNDARY (AS SURVEYED ON JULY 27, 2017
MATCH TO SHEET 5 –L– STA. 22+00

HUBQUARTER PARTNERSHIP DB 797 PG 290
HARKERS POINT OWNERS ASSN INC (PER CARTERET COUNTY GIS)
HARKERS POINT DR. (SR 1135) (19' BST)
MAXWELL DR. (9' BST)
HARKERS ISLAND RD. (20' BST)
PATRICIA TESTA DB 950 PG 348
CARTERET COUNTY DB 787 PG 542
HOLLIS L. BATSON, et ux DB 927 PG 47 MB 29 PG 938 (1)
HOLLIS L. BATSON, et al DB 872 PG 168 MB 29 PG 649 MB 29 PG 938
LAWRENCE F. BALDWIN, et ux DB 927 PG 46 MB 29 PG 938 (2)
STATE OF NORTH CAROLINA NDR
NO ASSOCIATED RECORDS FOUND FOR THIS STRUCTURE
NO ASSOCIATED RECORDS OR UTILITY LINES FOUND FOR THIS WATER VALVE
BEACH ACCESS
FIBER PEDESTAL DESTROYED
INNERDUCT
RIP RAP
CONC. HW
SCRUB & WOODS
MEAN HIGH WATER MARK PLOTTED FROM MB 29 PG 938
BMI -BL- STA. 16+91 156' RT ELEV=5.70'
ENDS CL II ROCK PLATING STD. 275.01 DETAIL NO. 2 -Y- STA 11+60+/- LT
BEGIN CL II ROCK PLATING STD. 275.01 DETAIL NO. 2 -Y- STA 10+55.5 -Y- LT
TOP OF RIP RAP TO BE FLUSH WITH TOP OF RETAINING MAT.
NGS "TIDAL 3" ELEV=3.47'
NGS "TIDAL 2" ELEV=14.20'
STANDARD "V" DITCH SEE DETAIL A
CUT DITCH SEE DETAIL B
SPECIAL LATERAL "V" DITCH SEE DETAIL C
SPECIAL LATERAL BASE DITCH SEE DETAIL D
STANDARD BASE DITCH SEE DETAIL E
EST 2 TON CL B RIP RAP EST 7 SY GEOTEXTILE
EST 3 TON CL B RIP RAP EST 10 SY GEOTEXTILE
EST 5 TON CL B RIP RAP EST 14 SY GEOTEXTILE
SBG FROM -L- STA. 15+73 TO STA. 18+61
50' TAPER LT & RT
24' INC. (TYP)
45' INC. (TYP)
42' INC. (TYP)
30' INC. (TYP)
75'
90'
76'
34'
60'
18" RCP-IV
TB2GI
SBG
PDE
POE
ISFD
GREU TL-3
WOODED
RETAIN
FMV
FM
ELEC METER
STONE COLUMN
WOOD POSTS
SEAT=12.75'
SEAT=12.74'
TV FO
OHP
GR.
TS
SC
CS
ST
PC
PT
R/W

-L- +98.31 75.00' LT
-L- +95.49 42.00' LT
-L- +94.74 33.28' LT
-L- +48.05 42.00' LT
-L- +21.59 48.07' LT
-L- +35.00 75.00' LT
-L- +09.14 87.48' LT
-L- +11.83 57.29' LT
-L- +33.96 100.00' LT
-L- +16.75 100.00' LT
-L- +55.00 100.00' LT
-L- +12.63 109.47' LT
-L- +55.00 76.96' LT
63.24' LT
-L- +56.61 111.41' LT
-L- +45.08 45.00' LT
-L- +04.59 68.23' LT
-L- +00.08 62.88' LT
-L- +23.86 84.42' LT
-L- +23.86 45.00' LT
-L- +00.00 45.00' RT EXIST
-L- +71.36 45.00' RT
-L- +17.04 45.00' RT
-L- +09.88 45.00' RT
-L- +72.70 65.65' RT
-L- +79.10 79.14' RT
-L- +56.04 81.95' RT
-L- +10.06 55.58' RT
-L- +80.00 35.00' RT
-L- +17.93 118.31' RT
-L- +29.11 135.10' RT
-L- +85.98 98.68' RT
-L- +53.36 106.30' RT
-Y- +67.01 40.00' RT 7.00' RT
-Y- +70.00 40.00' RT
-L- +75.00 45.00' RT 35.00' RT
-L- +23.86 45.00' RT
-L- +13.58 121.00' RT 76.00' RT
-L- +23.86 121.00' RT
-L- +93.86 121.00' RT 76.00' RT
-Y- +67.01 20.00' LT
-Y- +71.73 76.00' RT
-Y- +70.00 28.00' LT
-Y- +25.00 20.00' LT 28.00' LT



DETAIL SHOWING PAVEMENT – BRIDGE RELATIONSHIP (NOT TO SCALE)

FOR –L– PROFILE, SEE SHEET NO. 8	
FOR –Y– PROFILE, SEE SHEET NO. 12	
FOR –DRIVE– PROFILE, SEE SHEET NO. 12	
BRIDGE APPROACH SLAB	
PAVEMENT REMOVAL	
FOR STRUCTURE PLANS, SEE SHEETS S-1 THRU S-205	
FOR RETAINING WALL PLANS, SEE SHEETS W-1 THRU W-27	

-L- CURVE DATA
PI Sta 9+51.80
Δ = 1° 33' 53.3" (RT)
D = 1° 37' 23.2"
L = 96.41'
T = 48.21'
R = 3,530.00'
SE = EXIST.
INC = EXIST.

-L- CURVE DATA
PI Sta 16+00.02
Δ = 13° 24' 02.8" (RT)
D = 1° 16' 23.7"
L = 1,052.49'
T = 528.66'
R = 4,500.00'
SE = 03
INC = VARIES

-Y- CURVE DATA
PI Sta 10+42.79
Δ = 2° 18' 49.0" (LT)
D = 4° 46' 28.7"
L = 48.46'
T = 24.23'
R = 1,200.00'
SE = 03
INC = 13'

-DRIVE- CURVE DATA
PI Sta 10+49.62
Δ = 71° 10' 05.0" (RT)
D = 143° 14' 22.0"
L = 49.68'
T = 28.62'
R = 40.00'
SE = 03
INC = 13'

26-MAR-2021 15:03
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\$\$USERNAME\$\$