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X01-X20	CROSS SECTIONS	20
TOTAL		33

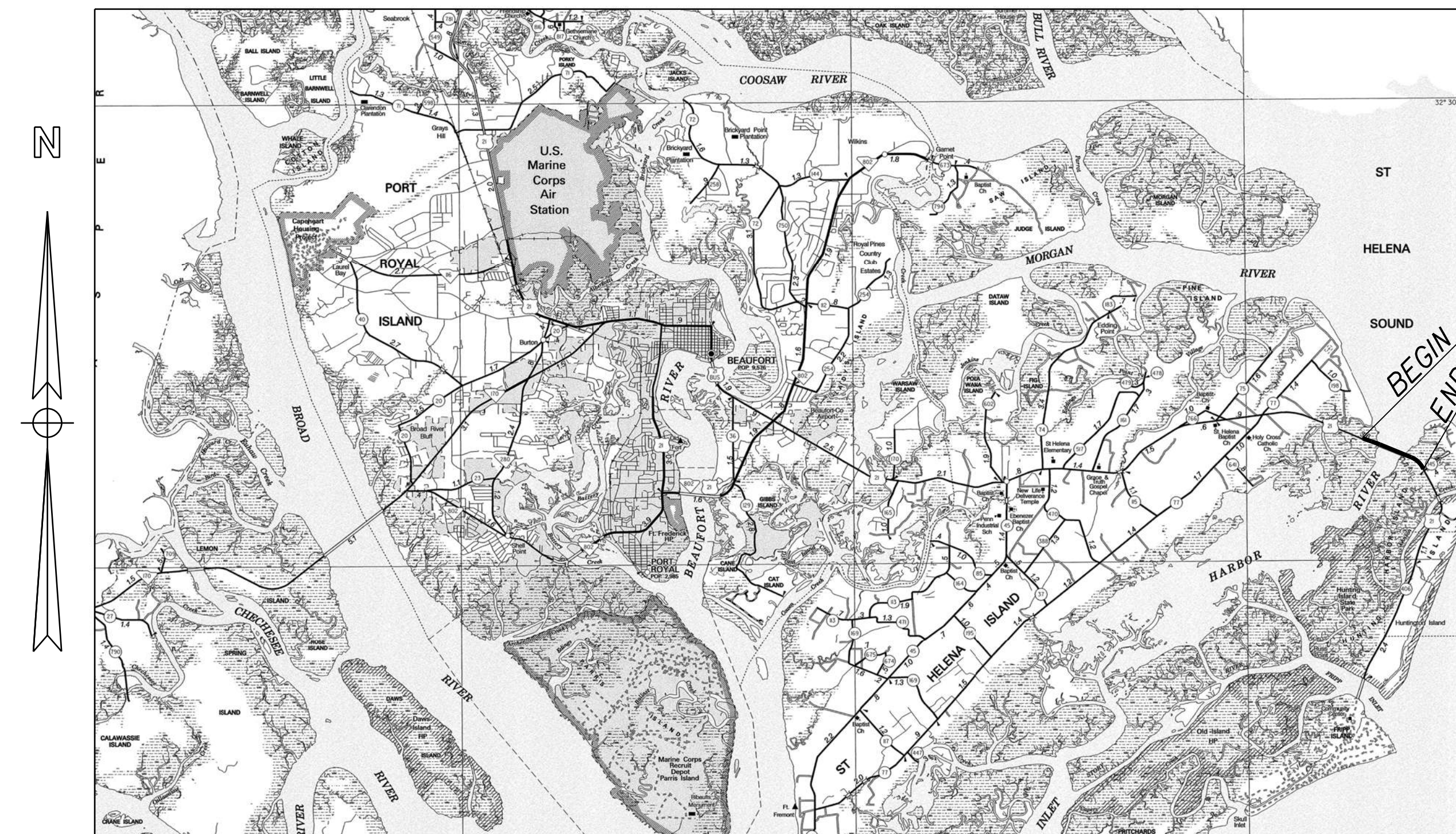


South Carolina Department of Transportation

SHEET NO.	TOTAL SHEETS
1	33

PROPOSED PLANS FOR BEAUFORT COUNTY PROJECT ID P026862 US 21 (SEA ISLAND PARKWAY) REPLACE BRIDGE OVER HARBOR RIVER

BRIDGE PLANS BOUND
UNDER SEPARATE COVER



LAYOUT

Beaufort County

NOT TO SCALE

NPDES PERMIT INFORMATION	
NPDES Disturbed	
Area =	11.023 Acre(s)
Approximate Location of Roadway is	
Begin	
Latitude	32°24'28" N
Longitude	80°27'47" W
End	
Latitude	32°23'58" N
Longitude	80°26'75" W
Hydraulic and NPDES Design provided by:	
HDR ENGINEERING, INC. OF THE CAROLINAS	

US 21 (Sea Island Parkway)
US 21 Exist. Sta. 53+50.00
to US 21 Relocate Sta. 122+20.00
See Sheets 6-10

ENVIRONMENTAL PERMIT INFORMATION			
USACE PERMIT	___ YES	___ NO	
NEPA DOCUMENT	___ YES	___ NO	
401 CERTIFICATION	___ YES	___ NO	
OCRM CAP	___ YES	___ NO	
NAVIGABLE WATERS	___ SC	___ USCG	___ USACE ___ N/A

3 DAYS BEFORE DIGGING IN
SOUTH CAROLINA

CALL 811

SOUTH CAROLINA 811 (SC811)
WWW.SC811.COM
ALL UTILITIES MAY NOT BE A MEMBER OF SC811

RAILROAD INVOLVEMENT?
YES NO

TRAFFIC DATA

_____ ADT _____

_____ ADT _____

TRUCKS _____ %

Design Reference for these plans is the:

2001
AASHTO "A Policy on Geometric Design of
Highways and Streets"

Hydraulic Design Reference for these plans is the:

2009
Edition of SCDOT's "Requirements for
Hydraulic Design Studies"

CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION

NET LENGTH OF ROADWAY	0.619	MILES
NET LENGTH OF BRIDGES	0.682	MILES
NET LENGTH OF PROJECT	1.301	MILES
LENGTH OF EXCEPTIONS	N/A	MILES
GROSS LENGTH OF PROJECT	1.301	MILES

EQUALITIES IN STATIONING:
P.O.T. STA. 54+00.00 US 21 EX. = P.C. STA. 54+00.00 US 21 REL.
P.O.T. STA. 120+00.45 US 21 REL. = P.T. STA. 119+83.90 US 21 EX.
P.O.T. STA. 126+44.22 US 21 REL. = P.O.T. STA. 126+27.67 US 21 EX.

NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE DATE OF RELEASE OF FINAL RFP.

CONSULTING ENGINEERING FIRM

HDR

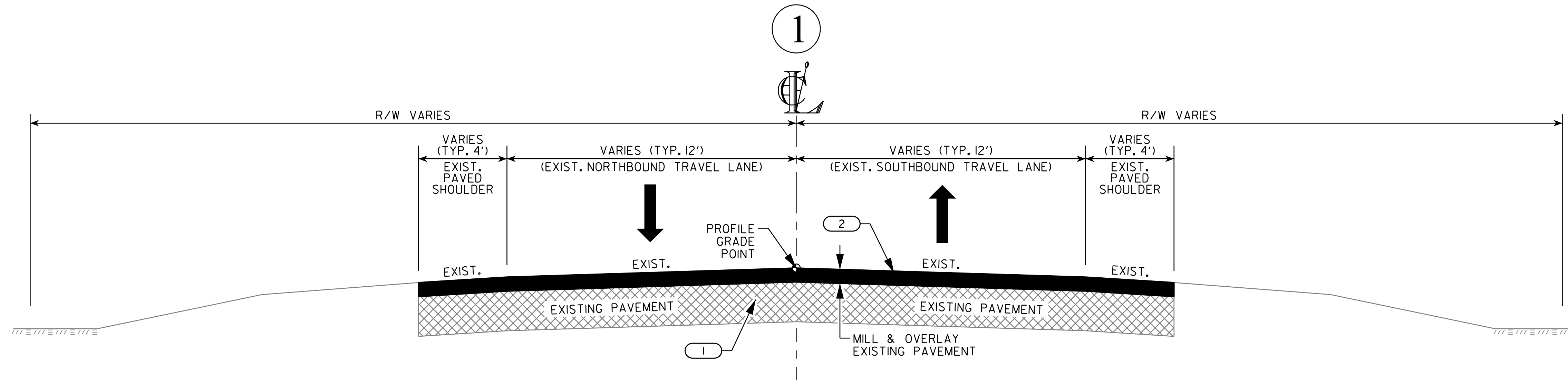
HDR ENGINEERING, INC. OF THE CAROLINAS
4400 LEEDS AVENUE, SUITE 450
NORTH CHARLESTON, SOUTH CAROLINA 29405

ENGINEER OF RECORD

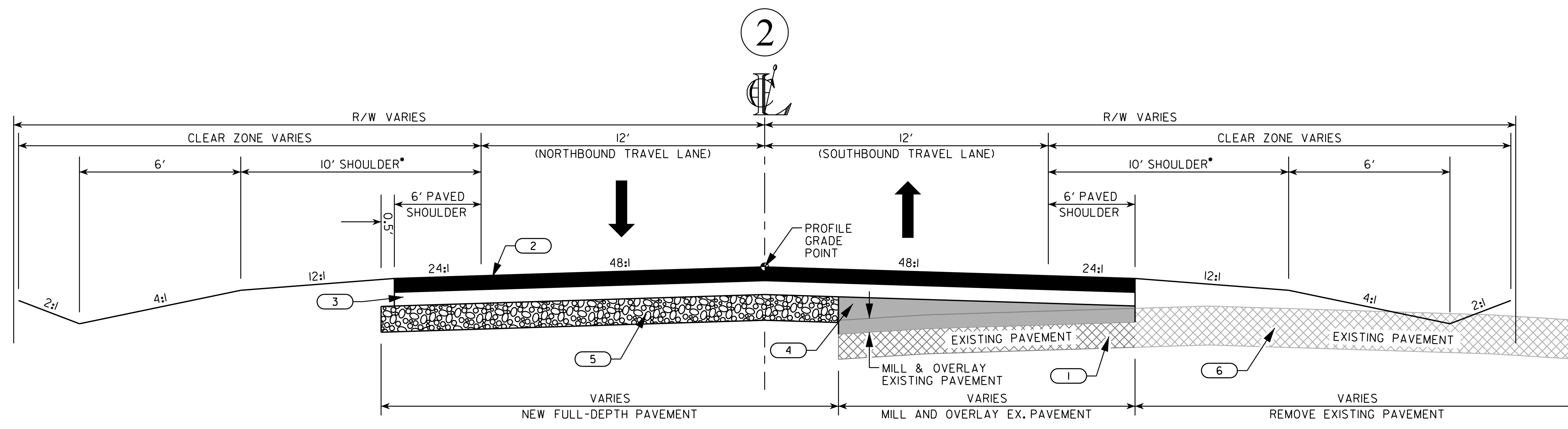
FOR CONSTRUCTION : _____ DATE _____

TYPICAL SECTION OF IMPROVEMENT SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

FED. RD. DIST. NO.	STATE	SCDP PROJ. NO.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	3



USE THIS MILL & OVERLAY SECTION ON
US 21 EX. STA. 53+50.00 TO STA. 54+00.00



USE THIS ROADWAY SECTION ON
US 21 REL. STA. 54+00.00 TO STA. 62+78.06
US 21 REL. STA. 110+37.18 TO STA. 122+20.00

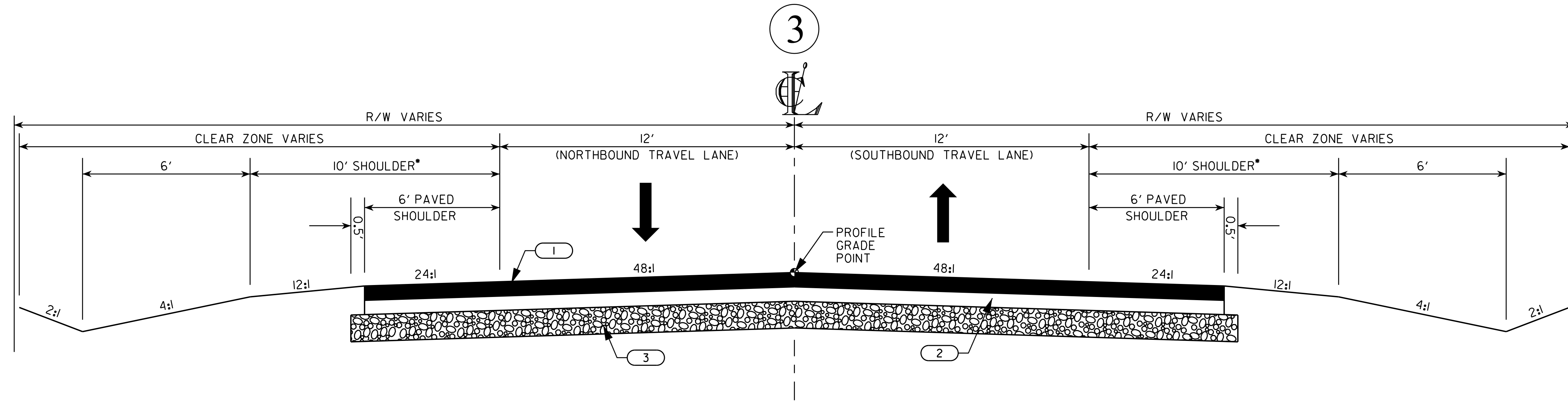
LEGEND	
1	EXISTING PAVEMENT (TO BE RETAINED)
2	PROPOSED ASPHALT SURFACE COURSE
3	PROPOSED ASPHALT INTERMEDIATE COURSE
4	PROPOSED ASPHALT INTERMEDIATE COURSE FOR LEVELING, AS NEEDED
5	PROPOSED ASPHALT BASE COURSE
6	EXISTING PAVEMENT (TO BE REMOVED)

CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION

		DESIGN SPEED				PAVEMENT DESIGN	APPROVED BY	DATE	SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION ROAD DESIGN COLUMBIA, S.C. BEAUFORT COUNTY US 21 (SEA ISLAND PARKWAY) HARBOR RIVER BRIDGE REPLACEMENT TYPICAL SECTIONS
ROAD NAME	FUNCTIONAL CLASS	MPH	FROM STA.	TO STA.					
US 21 EX.	PRIMARY ARTERIAL	55	30+00.00	126+27.67					
US 21 REL.	PRIMARY ARTERIAL	55	54+00.00	126+52.07					

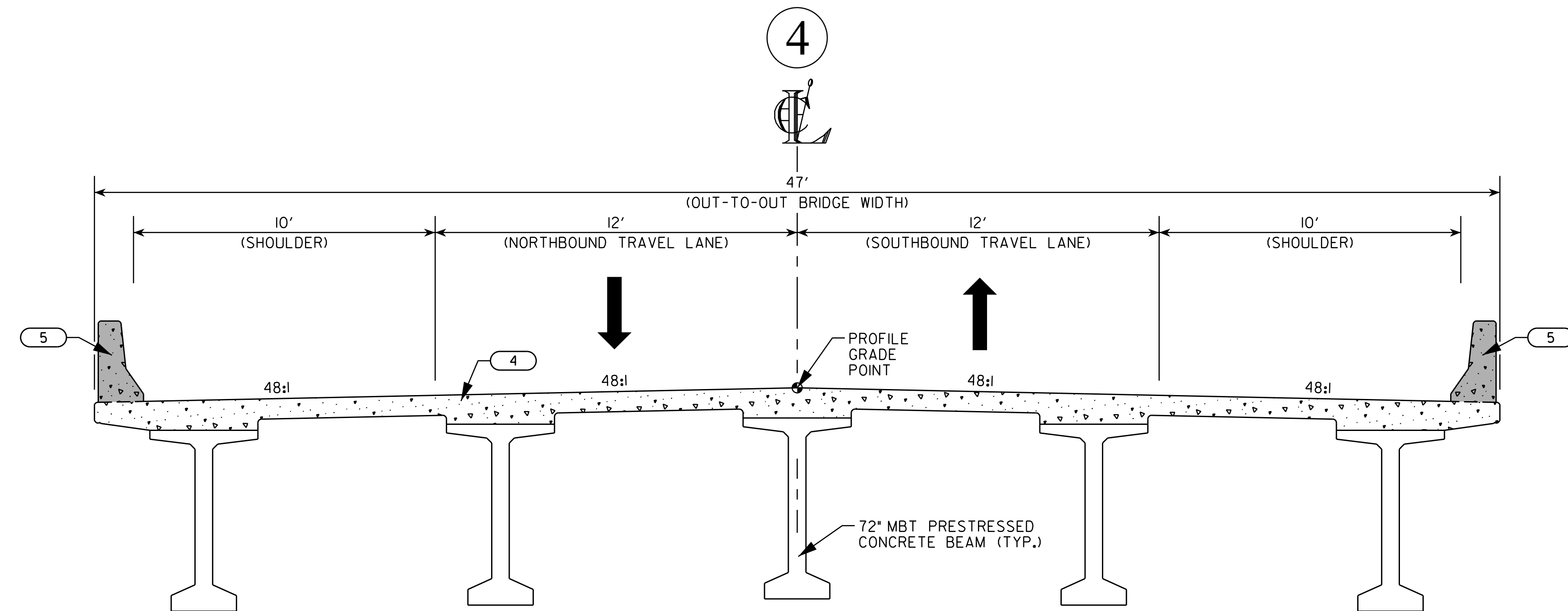
TYPICAL SECTION OF IMPROVEMENT SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

FED. RD. DIST. NO.	STATE	SCDOT PROJ. NO.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	3A



USE THIS ROADWAY SECTION ON
US 21 REL. STA. 62+78.06 TO STA. 68+54.00
US 21 REL. STA. 104+56.00 TO STA. 110+37.18

• WHERE GUARDRAIL IS USED
ADD 3.5' TO EARTH SHOULDER



USE THIS BRIDGE SECTION ON
US 21 REL. STA. 68+54.00 TO STA. 104+56.00

LEGEND	
1	PROPOSED ASPHALT SURFACE COURSE
2	PROPOSED ASPHALT INTERMEDIATE COURSE
3	PROPOSED ASPHALT BASE COURSE
4	PROPOSED BRIDGE DECK
5	PROPOSED 42" CONCRETE RAILING WALL

CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION

DESIGN SPEED				
ROAD NAME	FUNCTIONAL CLASS.	MPH	FROM STA.	TO STA.
US 21 EX.	PRIMARY ARTERIAL	55	30+00.00	126+27.67
US 21 REL.	PRIMARY ARTERIAL	55	54+00.00	126+52.07

PAVEMENT DESIGN

APPROVED BY _____

DATE _____

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
ROAD DESIGN COLUMBIA, S.C.

BEAUFORT COUNTY
US 21 (SEA ISLAND PARKWAY)
HARBOR RIVER BRIDGE REPLACEMENT
TYPICAL SECTIONS

SCALE: N.T.S. RTE.US 21 DWG. TYP

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
RIGHT-OF-WAY DATA SHEET

FED. RD. DIST. NO.	STATE	SCDP PROJ. NO.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	4

TRACT NO.	PROPERTY OWNER	DEED BK/PG	TAX MAP REFERENCE	TOTAL TRACT ACRES	OBTAIN ^A				REMAINDER LEFT ACRES ^B	REMAINDER RIGHT ACRES ^B	DATE ACQUIRED	TYPE OF INSTRUMENT	OUTFALL DITCH PERMISSION (YES)	SLOPE PERMISSION (YES)	DRAINAGE STRUCTURE PERMISSION (YES)	EROSION CONTROL PERMISSION (YES)	ENTRANCE CONSTRUCTION PERMISSION (YES)	REMARKS
					OUTFALL DITCH ACRES	LEFT	RIGHT	TOTAL										
1	COUNTY OF BEAUFORT	57/11 OR 12 NOT FOUND	R300-019-000-0008	0.243														
2	COUNTY OF BEAUFORT	57/11 OR 12 NOT FOUND	R300-019-000-0008	0.940														
3	WATERS OF THE HARBOR RIVER																	
4	COUNTY OF BEAUFORT	292/1542	R300-020-00B-0030	1.732														
5	HARBOR ISLAND OWNERS ASSOCIATION	2264/2510	R300-020-00A-0119	21.500		157,182.86 SF (3.608 AC)	16,469.81 SF (0.378 AC)	173,652.67 SF (3.986 AC)	17.514 AC	0.000 AC						YES		
6	HARBOR ISLAND OWNERS ASSOCIATION	2264/2510	R300-020-00A-0119	22.613														
7	HARBOR ISLAND UTILITIES, INC.	760/1787	R300-020-00B-0034	0.035														
8	CAROLINA RECREATIONAL CONCEPTS, LLC	2257/481	R300-020-00B-0032	1.341														
9	THERESA A. MORRIS	3291/3031	R300-020-00B-0037	0.208														
10	C. COLEMAN WHITE, ET AL	2513/1205	R300-020-00B-0036	0.640														
11	HARBOR ISLAND UTILITIES, INC.	760/1787	R300-020-00B-0034	0.049														
12	HARBOR ISLAND UTILITIES, INC.	760/1787	R300-020-00B-0034	0.163														
13	HARBOUR KEY COMMUNITY ASSOCIATION, INC.	3077/379	R300-020-00C-0153	91.740														
14	PREFERRED ISLAND PROPERTIES	NO DEED REF. FOUND	R300-020-00B-0043	0.279														
15	PREFERRED ISLAND PROPERTIES	NO DEED REF. FOUND	R300-020-00B-0044	0.235														
16	PREFERRED ISLAND PROPERTIES	NO DEED REF. FOUND	R300-020-00B-0045	0.213														
17	HARBOR ISLAND OWNERS ASSOCIATION	3109/1238	R300-020-00B-0046	0.377														
18	HARBOR ISLAND OWNERS ASSOCIATION	3109/1238	R300-020-00B-0041	0.863														
19	UNKNOWN			0.758														

*C = CALCULATED

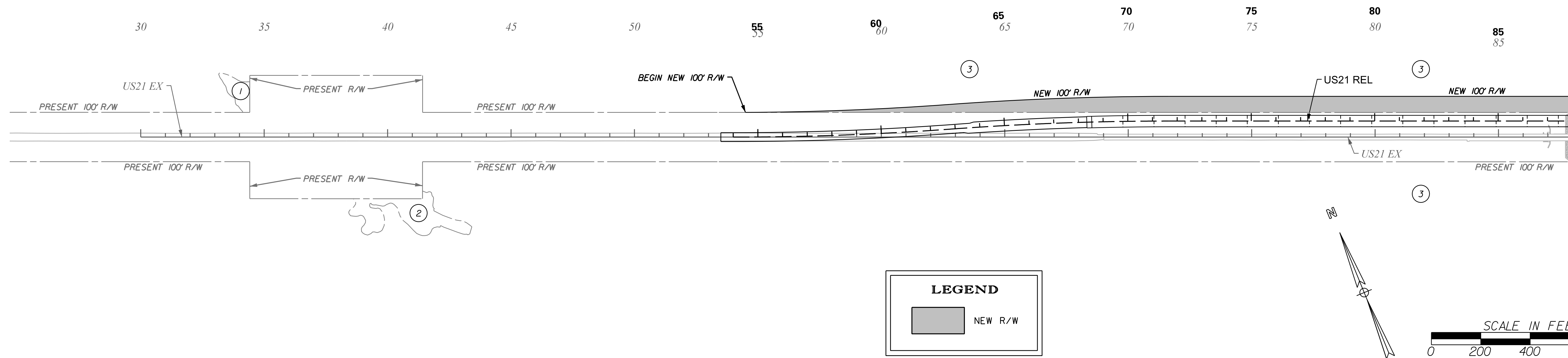
NOTES:
^A TOTAL OBTAIN INCLUDES HIGHLAND, MARSH AND OUTFALL DITCHES. OBTAINS WILL BE SHOWN IN SQUARE FEET AND ACRES. ACRES WILL BE SHOWN IN PARENTHESES UNDER SQUARE FEET. IN RURAL AREAS OBTAINS MAY BE SHOWN IN ACRES ONLY. OUTFALL DITCHES WILL BE SHOWN IN ACRES ONLY.
^B SHOW REMAINDER IN SQUARE FEET WHEN LESS THAN 0.25 ACRE.
^C FOR TOTAL TRACT AREAS WITH ONE DECIMAL PLACE, THE AREA IS CALCULATED BY PLAT METES AND BOUNDS DATA. ALL OTHER TOTAL TRACT AREAS ARE TAKEN FROM PLAT NOTATIONS.

CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION

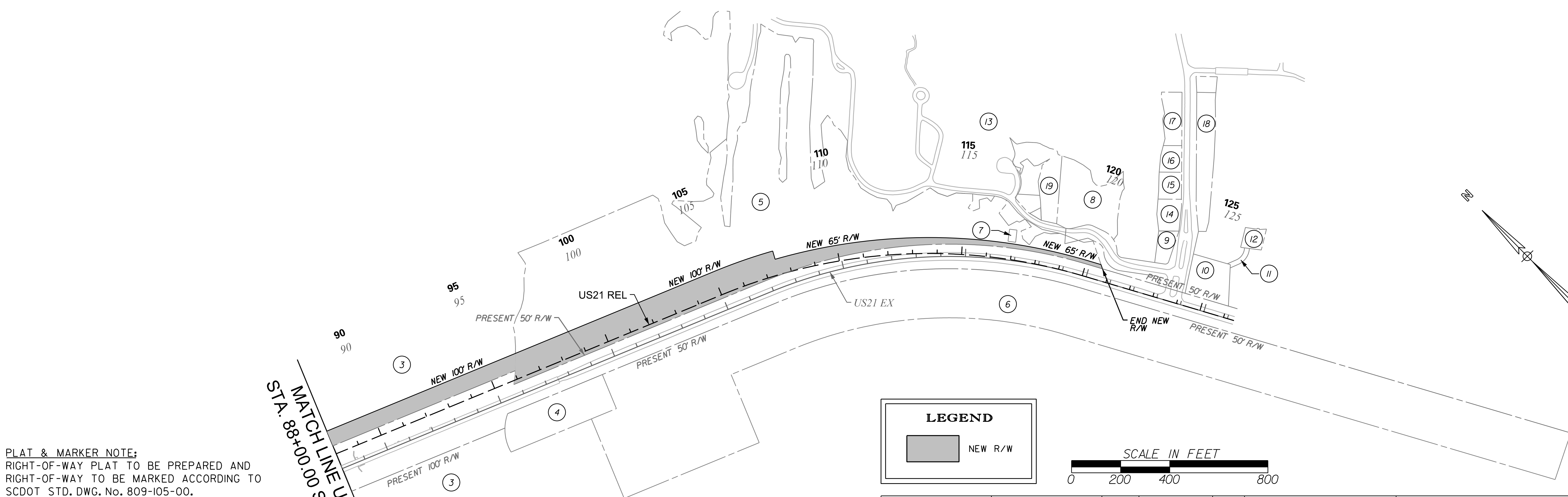
REV. NO.	BY	DATE	DESCRIPTION OF REVISION

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
ROAD DESIGN COLUMBIA, S.C.
BEAUFORT COUNTY
US 21 (SEA ISLAND PARKWAY)
HARBOR RIVER BRIDGE REPLACEMENT
RIGHT-OF-WAY DATA SHEET

SCALE: N/A RTE: US 21 DWG: RW_DATA



MATCH LINE US 21 EX.
STA. 88+00.00 SEE BELOW



MATCH LINE US 21 EX.
STA. 88+00.00 SEE ABOVE

PLAT & MARKER NOTE:
RIGHT-OF-WAY PLAT TO BE PREPARED AND RIGHT-OF-WAY TO BE MARKED ACCORDING TO SCDOT STD. DWG. No. 809-105-00.

CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION

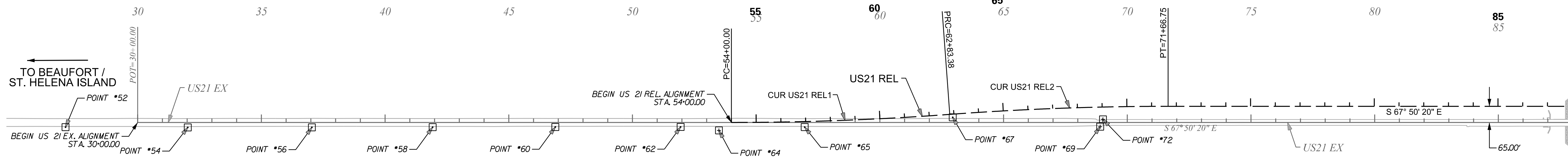


NOTES:
I. TRACTS 3 & 13 NOT SHOWN IN TOTAL

REV. NO.	BY	DATE	DESCRIPTION OF REVISION

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
ROAD DESIGN COLUMBIA, S.C.
BEAUFORT COUNTY
US 21 (SEA ISLAND PARKWAY)
HARBOR RIVER BRIDGE REPLACEMENT
PROPERTY STRIP MASTER PLAN
SCALE: 1"=200' RTE.US 21 DWG.PROP_STRIP_MP

US21_HRB_prep_strip_mpl.dgn
3/20/2017



MATCH LINE US 21 EX. STA. 88+00.00 SEE BELOW

TIE EQUALITIES
P.O.T. STA. 54+00.00 US 21 EX. = P.C. STA. 54+00.00 US 21 REL.
P.O.T. STA. 120+00.45 US 21 REL. = P.T. STA. 119+83.90 US 21 EX.
P.O.T. STA. 126+44.22 US 21 REL. = P.O.T. STA. 126+27.67 US 21 EX.

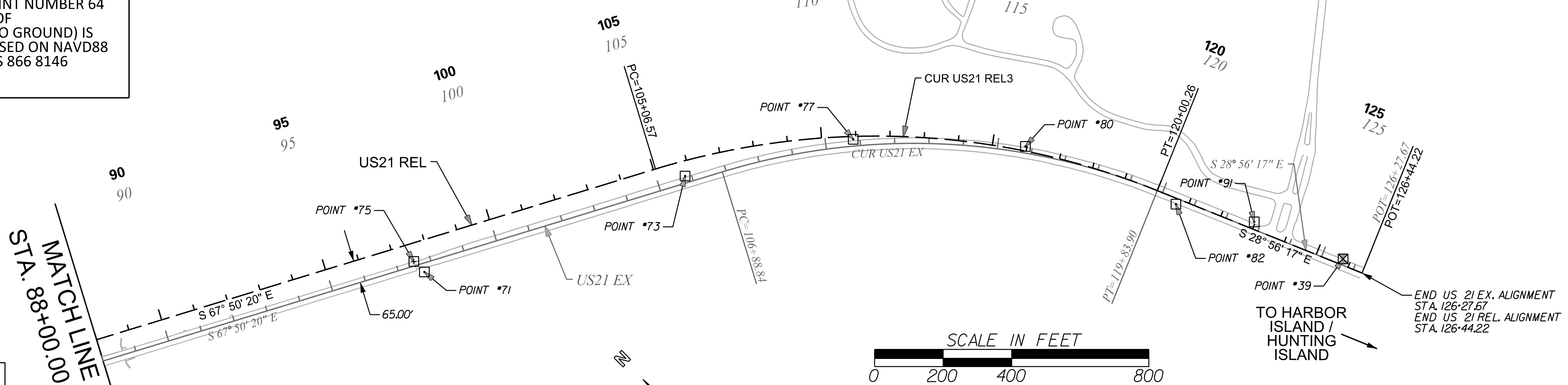
CONTROL POINT / BENCH MARK DATA							
#	NORTHING	EASTING	ELEV.	TYPE	US 21 EX. STA	US 21 EX. OFFSET	US 21 REL. STA
39	206,119.0237	2,171,898.4847	6.74	PSC	125+61.07	17.48' LT	125+77.62
52	210,452.0457	2,163,256.0718	9.48	MSC	27+08.39	18.96' RT	-
54	210,264.5703	2,163,713.2270	9.31	MSC	32+02.49	20.14' RT	-
56	210,075.5802	2,164,177.8434	9.71	MSC	37+04.07	19.91' RT	-
58	209,892.3077	2,164,630.4059	9.72	MSC	41+92.33	18.93' RT	-
60	209,705.8467	2,165,089.7483	9.86	MSC	46+88.08	18.35' RT	-
62	209,514.9742	2,165,558.8406	9.81	MSC	51+94.52	18.17' RT	-
64	209,443.5800	2,165,697.0600	7.46	GEO CK2336	53+49.46	32.15' RT	-
65	209,325.2569	2,166,023.1635	9.90	MSC	56+96.10	18.72' RT	56+95.58
67	209,136.1576	2,166,592.1560	9.53	MSC	62+94.39	20.78' LT	62+94.31
69	208,876.2318	2,167,130.0549	10.30	GEO CK4349	68+90.60	17.04' RT	68+90.36
71	207,781.5085	2,169,795.7410	10.51	MSC	97+72.31	25.36' RT	97+73.90
72	208,899.3959	2,167,151.5999	11.54	GEO CK0844	69+01.82	12.54' LT	69+02.30
73	207,518.5103	2,170,562.3079	7.19	MSC	105+81.45	20.23' LT	105+84.60
75	207,824.6710	2,169,791.2228	11.31	GEO CK0845	97+51.84	12.91' LT	97+53.44
77	207,291.9795	2,171,010.4024	8.98	MSC	110+80.57	19.96' LT	110+92.57
79	208,346.0979	2,171,424.9027	5.60	MSC	109+27.20	1,135.79' LT	108+84.38
80	206,958.6119	2,171,386.7164	8.96	MSC	115+79.66	18.96' LT	115+95.38
82	206,550.8982	2,171,621.0682	7.02	MSC	120+48.89	16.33' RT	120+65.44
91	206,366.5675	2,171,765.5744	7.10	MSC	122+80.13	20.94' LT	122+96.68
92	207,366.7072	2,172,978.3812	7.59	MSC	119+91.69	1,566.26' LT	120+08.24

STAKING CONTROL				
ALIGNMENT	CONTROL PT.	STATION	NORTHING	EASTING
US 21 EX	POT	30+00.00	210,359.6024	2,163,533.2953
	PC	106+88.84	207,459.2682	2,170,654.1361
	PI	113+62.45	207,205.1754	2,171,277.9796
	PT	119+83.90	206,615.6741	2,171,603.9121
	POT	126+27.67	206,052.2800	2,171,915.4100
US 21 REL	PC	54+00.00	209,454.2905	2,165,755.9986
	PI	58+41.89	209,287.6047	2,166,165.2422
	PRC	62+83.38	209,151.4694	2,166,585.6368
	PI	67+25.26	209,015.3342	2,167,006.0314
	PT	71+66.75	208,848.6484	2,167,415.2749
	PC	105+06.57	207,588.8234	2,170,508.3712
	PI	112+83.49	207,295.7593	2,171,227.8962
	PT	120+00.26	206,615.8437	2,171,603.8183
	POT	126+44.22	206,052.2800	2,171,915.4100



CURVE DATA	
CUR US21 EX P.I. = 113+62.45 Δ = 38° 54' 03" (RT) D = 3° 00' 14" T = 673.61' L = 1,295.06' E = 115.45' R = 1,907.45'	
CUR US21 REL1 P.I. = 58+41.89 Δ = 4° 13' 04" (LT) D = 0° 28' 39" T = 441.89' L = 883.38' E = 8.13' R = 12,000.00' D.S. = 55mph eMAX = 0.08 e = NC P.C. - LG% = N/A P.T. - LG% = N/A	CUR US21 REL2 P.I. = 67+25.26 Δ = 4° 13' 04" (RT) D = 0° 28' 39" T = 441.89' L = 883.38' E = 8.13' R = 12,000.00' D.S. = 55mph eMAX = 0.08 e = NC P.C. - LG% = N/A P.T. - LG% = N/A
CUR US21 REL3 P.I. = 112+83.49 Δ = 38° 54' 03" (RT) D = 2° 36' 16" T = 776.92' L = 1,493.68' E = 133.15' R = 2,200.00' D.S. = 55mph eMAX = 0.08 e = 0.055 P.C. - LG% = 0.5 P.T. - LG% = 0.5	

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE NAD83 (2011) SOUTH CAROLINA STATE PLANE COORDINATE FOR THE PRIMARY SURVEY CONTROL POINT NUMBER 64 WITH A NORTHING OF 209,443.580 AND AN EASTING OF 2,165,697.060. THE COMBINED SCALE FACTOR (GRID TO GROUND) IS 1.0000384222. ELEVATIONS FOR THIS PROJECT ARE BASED ON NAVD88 VALUES FOR PROJECT BENCH MARK NUMBER 64 (USGS 866 8146 TIDAL 5 OR PID CK2336) WITH AN ELEVATION OF 7.46'.

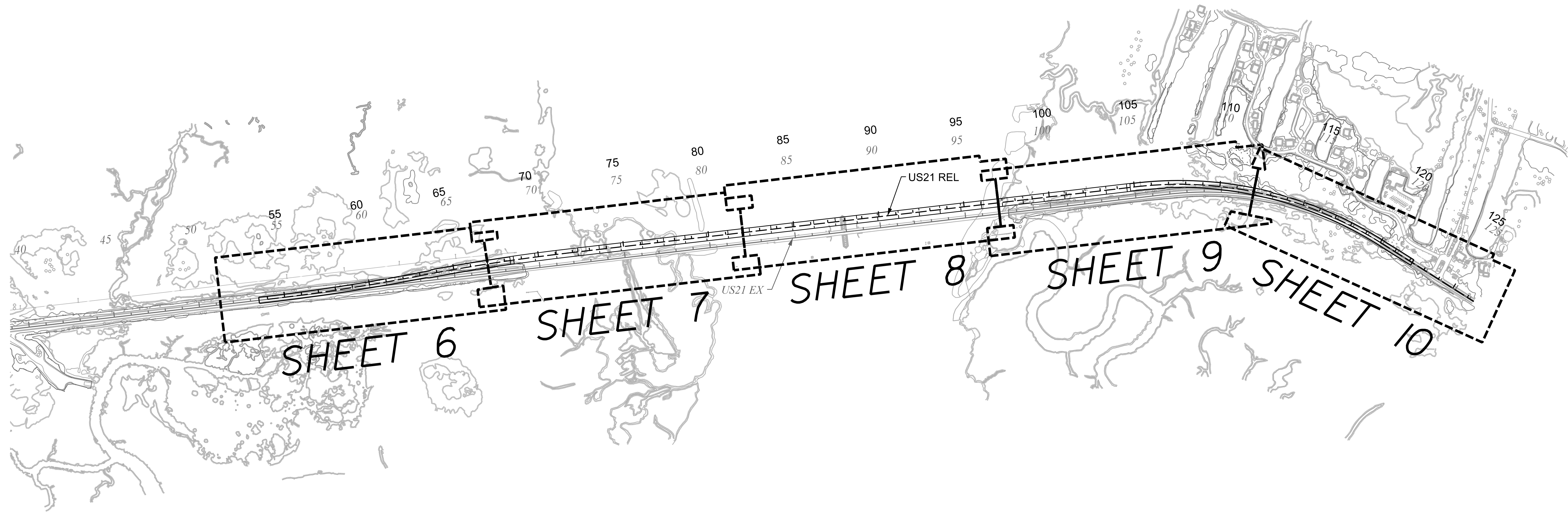


CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION

MATCH LINE US 21 EX. STA. 88+00.00 SEE ABOVE

REV. NO.	BY	DATE	DESCRIPTION OF REVISION

FED. RD. DIST. NO.	STATE	SCDP PROJ. NO.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	5B



CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
ROAD DESIGN COLUMBIA, S.C.
BEAUFORT COUNTY
US 21 (SEA ISLAND PARKWAY)
HARBOR RIVER BRIDGE REPLACEMENT
PLAN SHEET LAYOUT

SCALE: 1"=300' RTE.US 21 DWG.PLAN_SHT_LAYOUT

US21_HRB_plan_sht_layout.dgn
3/20/2017

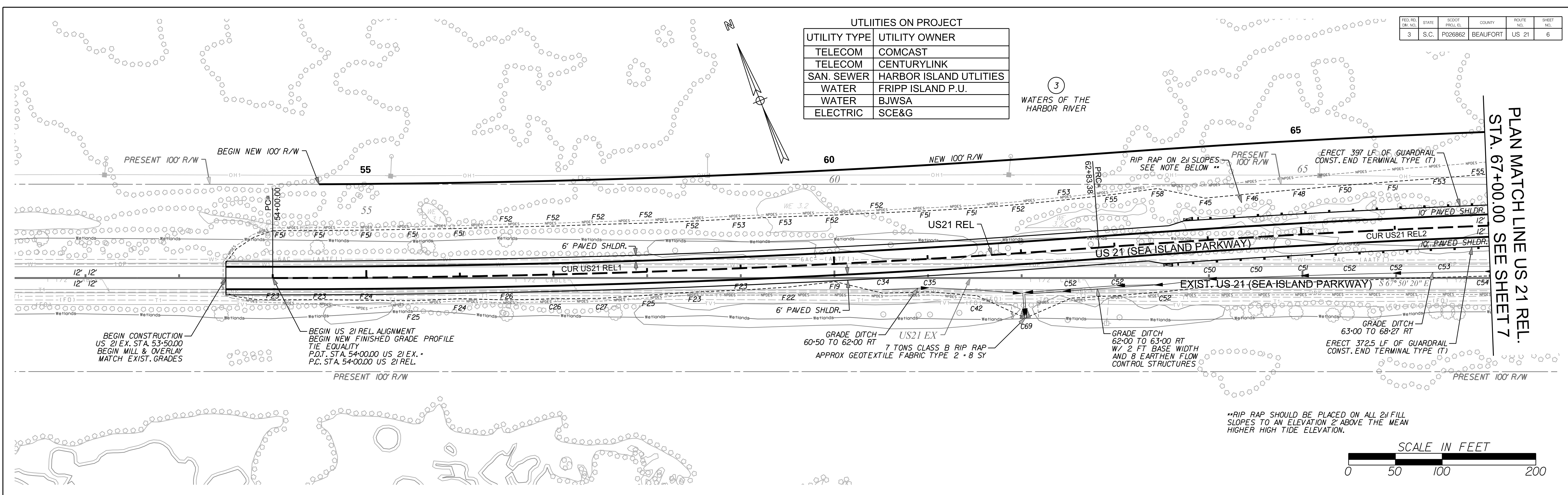
HDR
HDR Engineering Inc.
of the Carolinas
4400 Leeds Avenue, Suite 450
North Charleston, SC 29405-7547
843-414-3700

FED. RD. DIST. NO.	STATE	SCDDP PROJ. NO.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	6

UTILITIES ON PROJECT

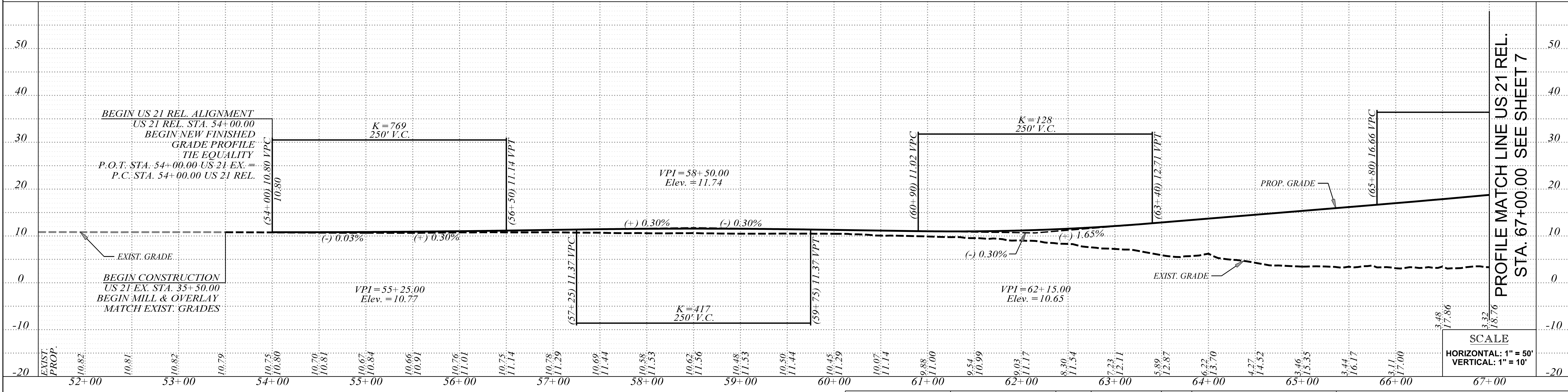
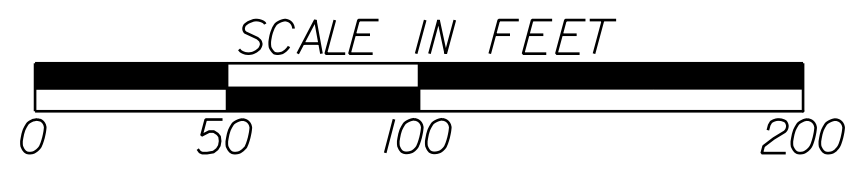
UTILITY TYPE	UTILITY OWNER
TELECOM	COMCAST
TELECOM	CENTURYLINK
SAN. SEWER	HARBOR ISLAND UTILITIES
WATER	FRIPP ISLAND P.U.
WATER	BJWSA
ELECTRIC	SCE&G

3
WATERS OF THE HARBOR RIVER



PLAN MATCH LINE US 21 REL.
STA. 67+00.00 SEE SHEET 7

**RIP RAP SHOULD BE PLACED ON ALL 2:1 FILL SLOPES TO AN ELEVATION 2' ABOVE THE MEAN HIGHER HIGH TIDE ELEVATION.



PROFILE MATCH LINE US 21 REL.
STA. 67+00.00 SEE SHEET 7

SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION

NOTE:
SEE STAKING PLAN FOR ALIGNMENT CONTROL

REV. NO.	BY	DATE	DESCRIPTION OF REVISION

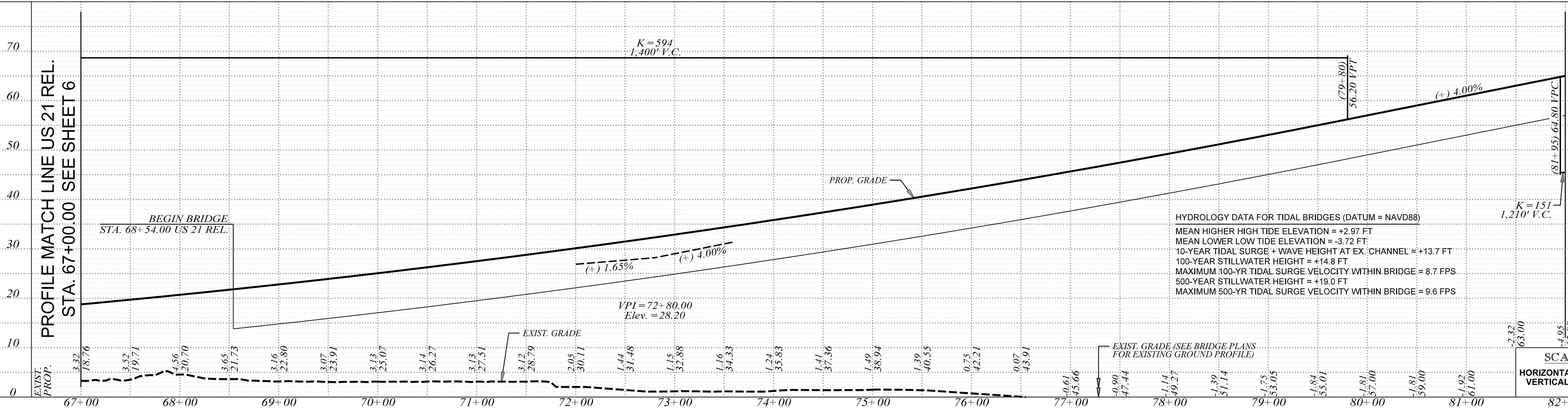
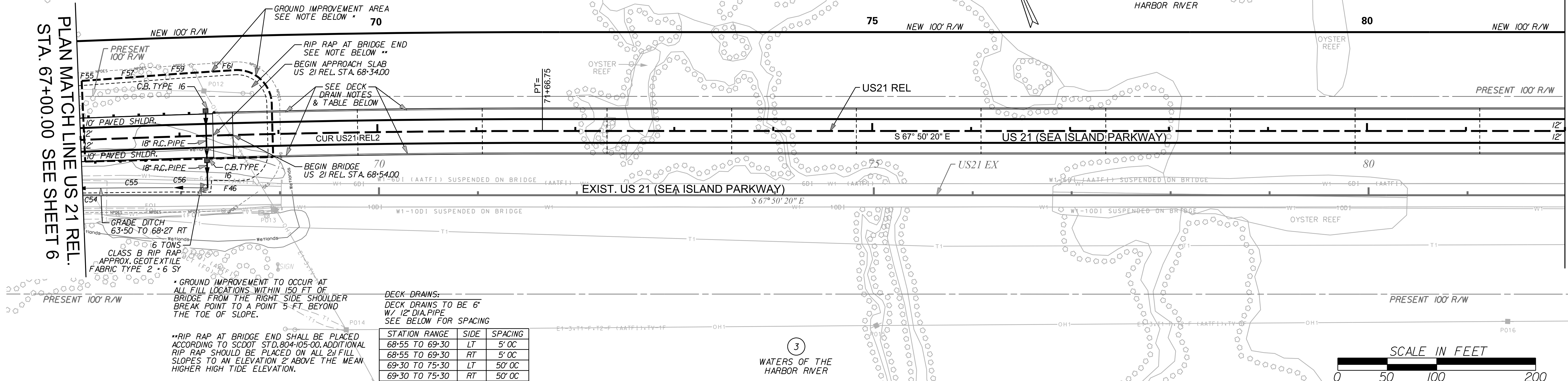
SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
ROAD DESIGN COLUMBIA, S.C.
BEAUFORT COUNTY
US 21 (SEA ISLAND PARKWAY)
HARBOR RIVER BRIDGE REPLACEMENT
PLAN & PROFILE: US 21
STA. 52+00.00 TO STA. 67+00.00
SCALE: 1"=50' RTE.US 21 DWG. PP6

HDR Engineering Inc.
of the Carolinas
4400 Leeds Avenue, Suite 450
North Charleston, SC 29405-7547
843-414-3700

US21_HRB_psh_AH1B.dgn
3/20/2017

UTILITIES ON PROJECT

UTILITY TYPE	UTILITY OWNER
TELECOM	COMCAST
TELECOM	CENTURYLINK
SAN. SEWER	HARBOR ISLAND UTILITIES
WATER	FRIPP ISLAND P.U.
WATER	BJWSA
ELECTRIC	SCE&G



CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION

NOTE:
SEE STAKING PLAN FOR ALIGNMENT CONTROL

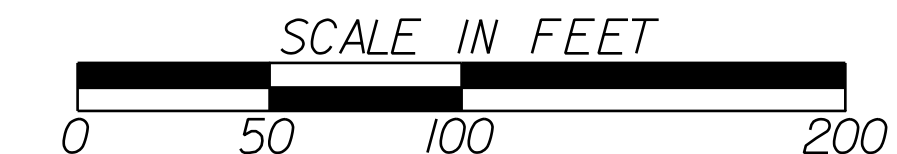
REV. NO.	BY	DATE	DESCRIPTION OF REVISION

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
ROAD DESIGN COLUMBIA, S.C.

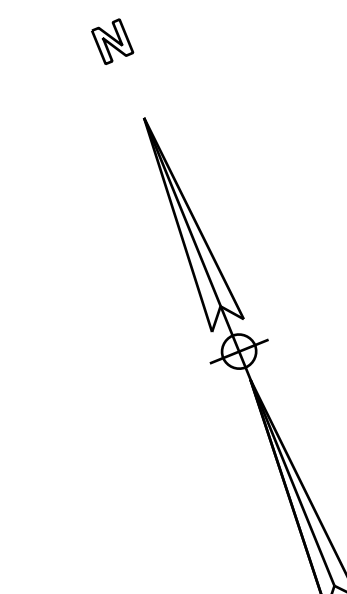
BEAUFORT COUNTY
US 21 (SEA ISLAND PARKWAY)
HARBOR RIVER BRIDGE REPLACEMENT
PLAN & PROFILE: US 21
STA. 67+00.00 TO STA. 82+00.00

SCALE: 1"=50' RTE.US 21 DWG. PP7

UTILITIES ON PROJECT	
UTILITY TYPE	UTILITY OWNER
TELECOM	COMCAST
TELECOM	CENTURYLINK
SAN. SEWER	HARBOR ISLAND UTILITIES
WATER	FRIPP ISLAND P.U.
WATER	BJWSA
ELECTRIC	SCE&G



FED. RD. DIST. NO.	STATE	SCDD PROJ. NO.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	8

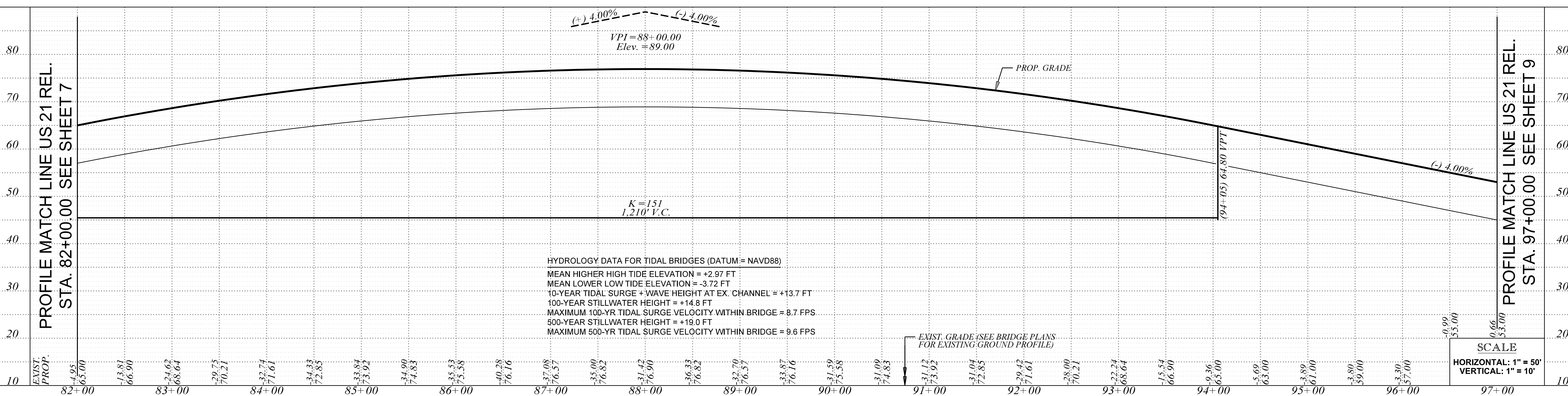
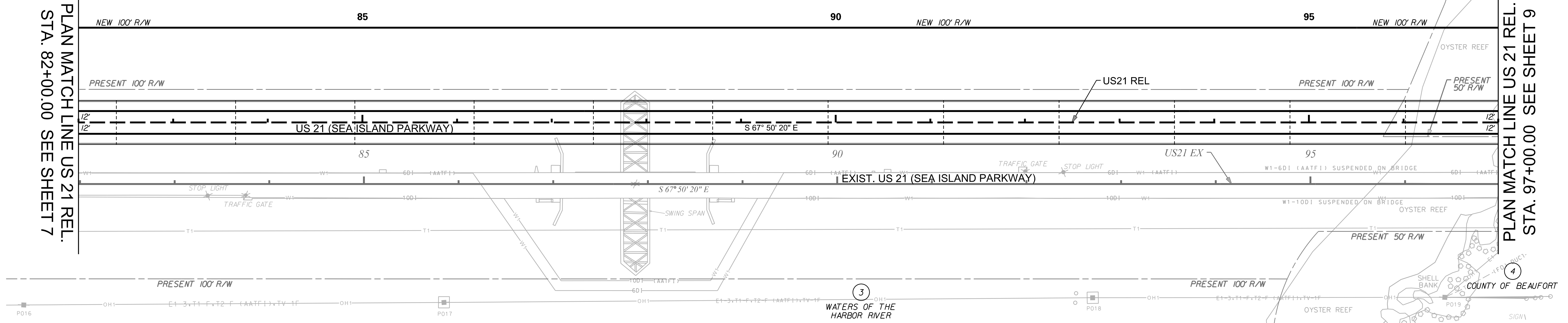


3
WATERS OF THE HARBOR RIVER

5
HARBOR ISLAND OWNERS ASSOCIATION

PLAN MATCH LINE US 21 REL.
STA. 82+00.00 SEE SHEET 7

PLAN MATCH LINE US 21 REL.
STA. 97+00.00 SEE SHEET 9



US21_HRB_psh_AH1B.dgn
3/20/2017

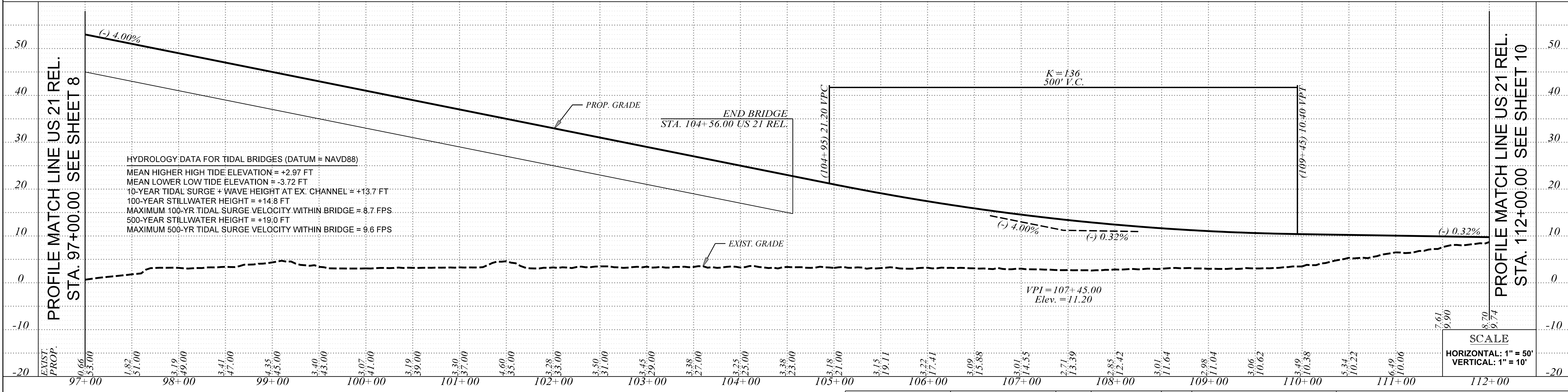
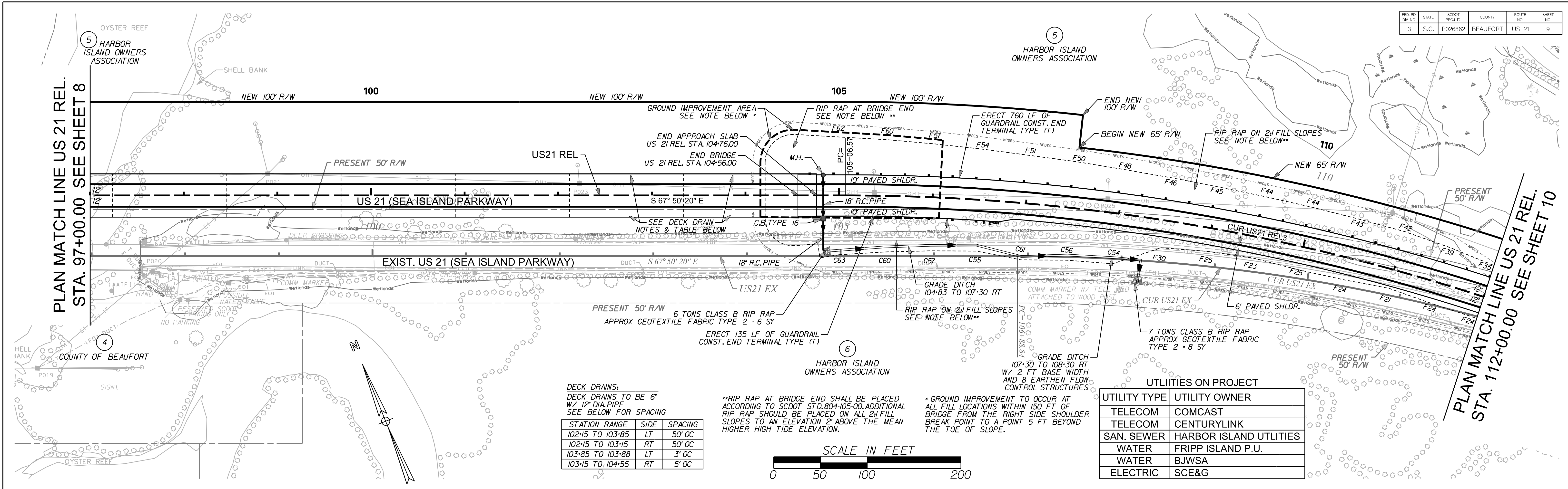


NOTE:
SEE STAKING PLAN FOR ALIGNMENT CONTROL

CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION

REV. NO.	BY	DATE	DESCRIPTION OF REVISION

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
ROAD DESIGN COLUMBIA, S.C.
BEAUFORT COUNTY
US 21 (SEA ISLAND PARKWAY)
HARBOR RIVER BRIDGE REPLACEMENT
PLAN & PROFILE: US 21
STA. 82+00.00 TO STA. 97+00.00
SCALE: 1"=50' RTE.US 21 DWG. PP8



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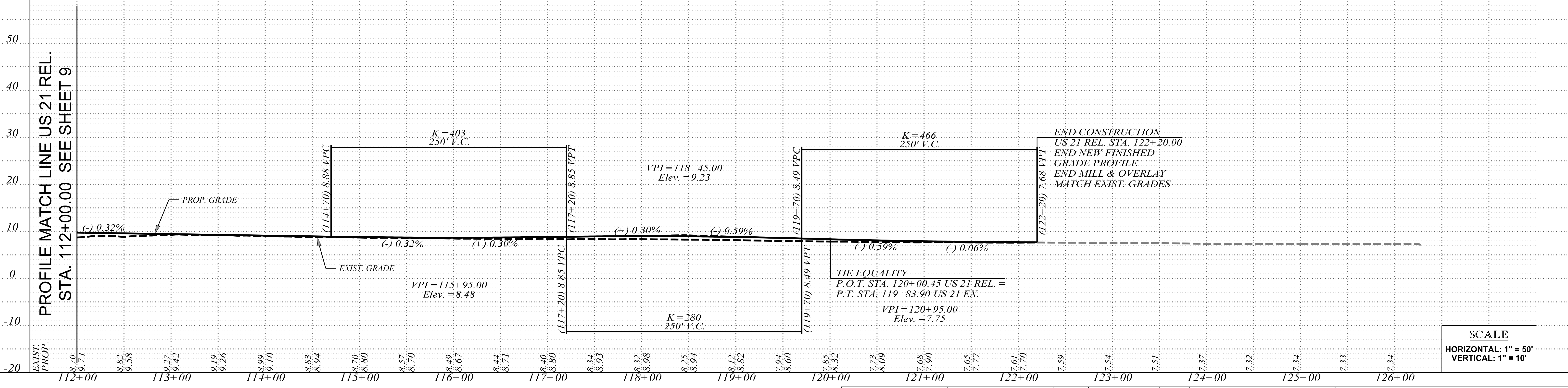
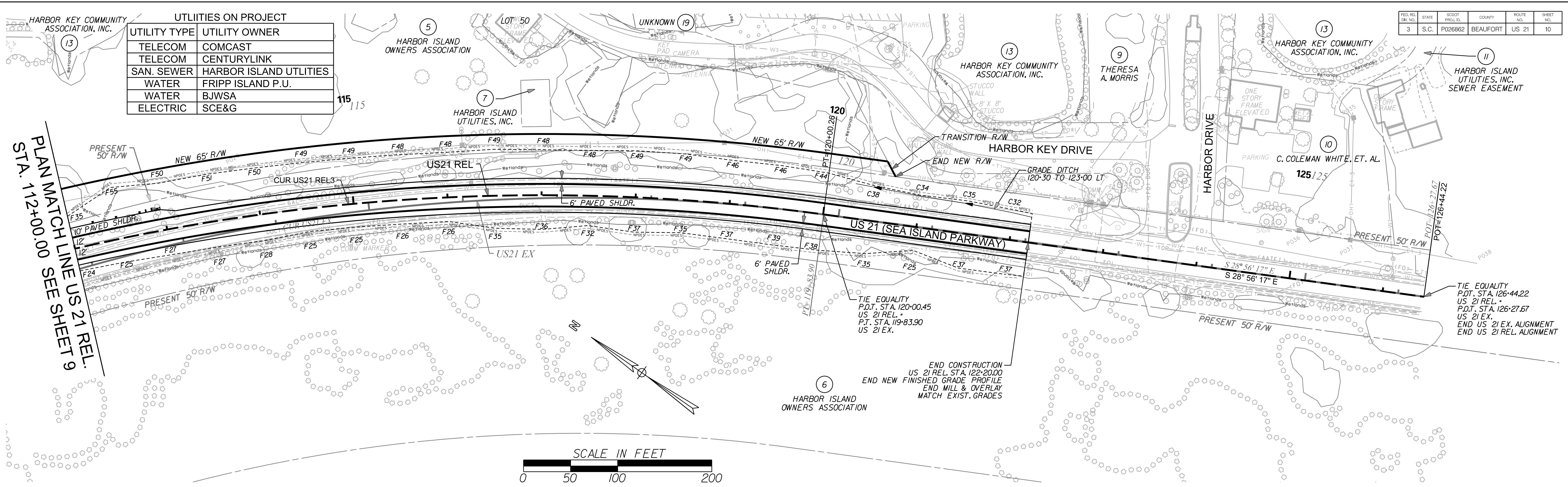
REV. NO.	BY	DATE	DESCRIPTION OF REVISION

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
ROAD DESIGN COLUMBIA, S.C.
BEAUFORT COUNTY
US 21 (SEA ISLAND PARKWAY)
HARBOR RIVER BRIDGE REPLACEMENT
PLAN & PROFILE: US 21
STA. 97+00.00 TO STA. 112+00.00
SCALE: 1"=50' RTE.US 21 DWG. PP9

FEED NO.	STATE	SCOP	PROJ. NO.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862		BEAUFORT	US 21	10

UTILITIES ON PROJECT

UTILITY TYPE	UTILITY OWNER
TELECOM	COMCAST
TELECOM	CENTURYLINK
SAN. SEWER	HARBOR ISLAND UTILITIES
WATER	FRIPP ISLAND P.U.
WATER	BJWSA
ELECTRIC	SCE&G



SCALE
 HORIZONTAL: 1" = 50'
 VERTICAL: 1" = 10'

CONCEPTUAL PLANS
 DO NOT USE FOR CONSTRUCTION

NOTE:
 SEE STAKING PLAN FOR ALIGNMENT CONTROL

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 HDR Engineering Inc.
 of the Carolinas
 4400 Leeds Avenue, Suite 450
 North Charleston, SC 29405-7547
 843-414-3700

REV. NO.	BY	DATE	DESCRIPTION OF REVISION

SOUTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 ROAD DESIGN COLUMBIA, S.C.
 BEAUFORT COUNTY
 US 21 (SEA ISLAND PARKWAY)
 HARBOR RIVER BRIDGE REPLACEMENT
 PLAN & PROFILE: US 21
 STA. 112+00.00 TO STA. 126+44.22
 SCALE: 1"=50' RTE.US 21 DWG.PP10

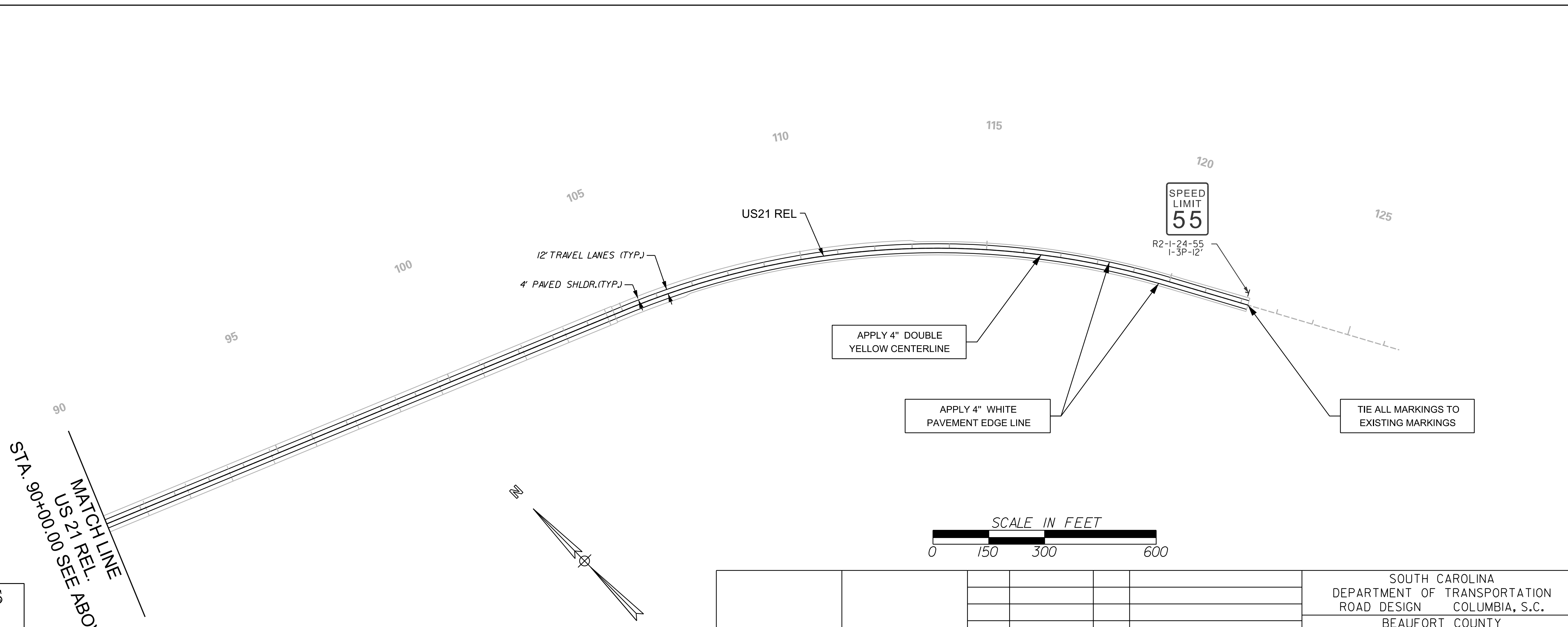
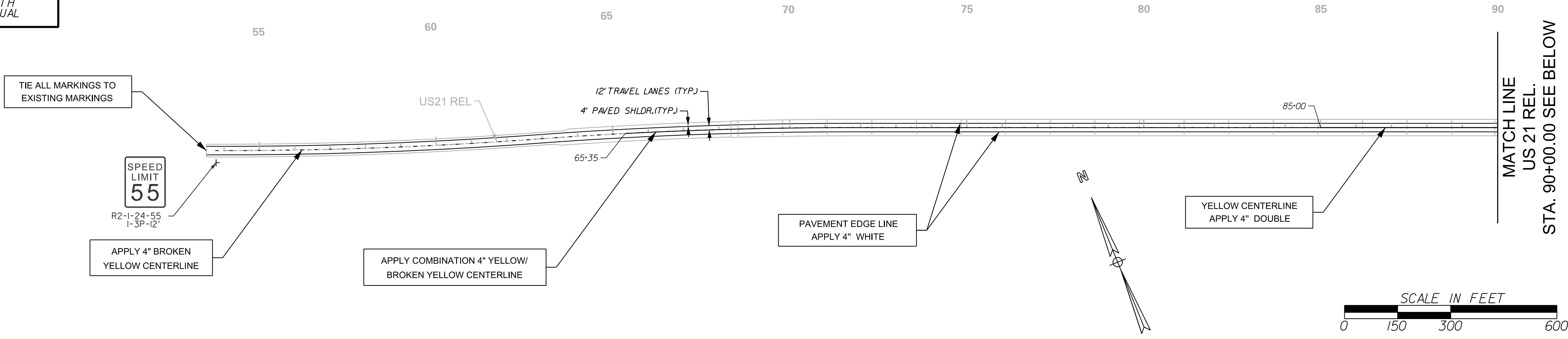
US21_HRB_psh_AH1B.dgn
 3/20/2017

FED. RD. DIST. NO.	STATE	SCDOT PROJ. NO.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	PM01

◆ - YELLOW BI-DIRECTIONAL MARKER

NOTE: APPLY RAISED MARKERS AS INDICATED AND ACCORDING TO SCDOT STD.DWG.630-205-00 THRU 630-215-00

NOTE: PASS / NO PASS ZONES SHOWN ARE APPROXIMATE. ACTUAL ZONES TO BE DETERMINED BY CONTRACTOR IN FIELD ACCORDING TO THE SOUTH CAROLINA HIGHWAY DESIGN MANUAL



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REV. NO.	BY	DATE	DESCRIPTION OF REVISION

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
ROAD DESIGN COLUMBIA, S.C.

BEAUFORT COUNTY
US 21 (SEA ISLAND PARKWAY)
HARBOR RIVER BRIDGE REPLACEMENT
PAVEMENT MARKING / SIGNING PLAN

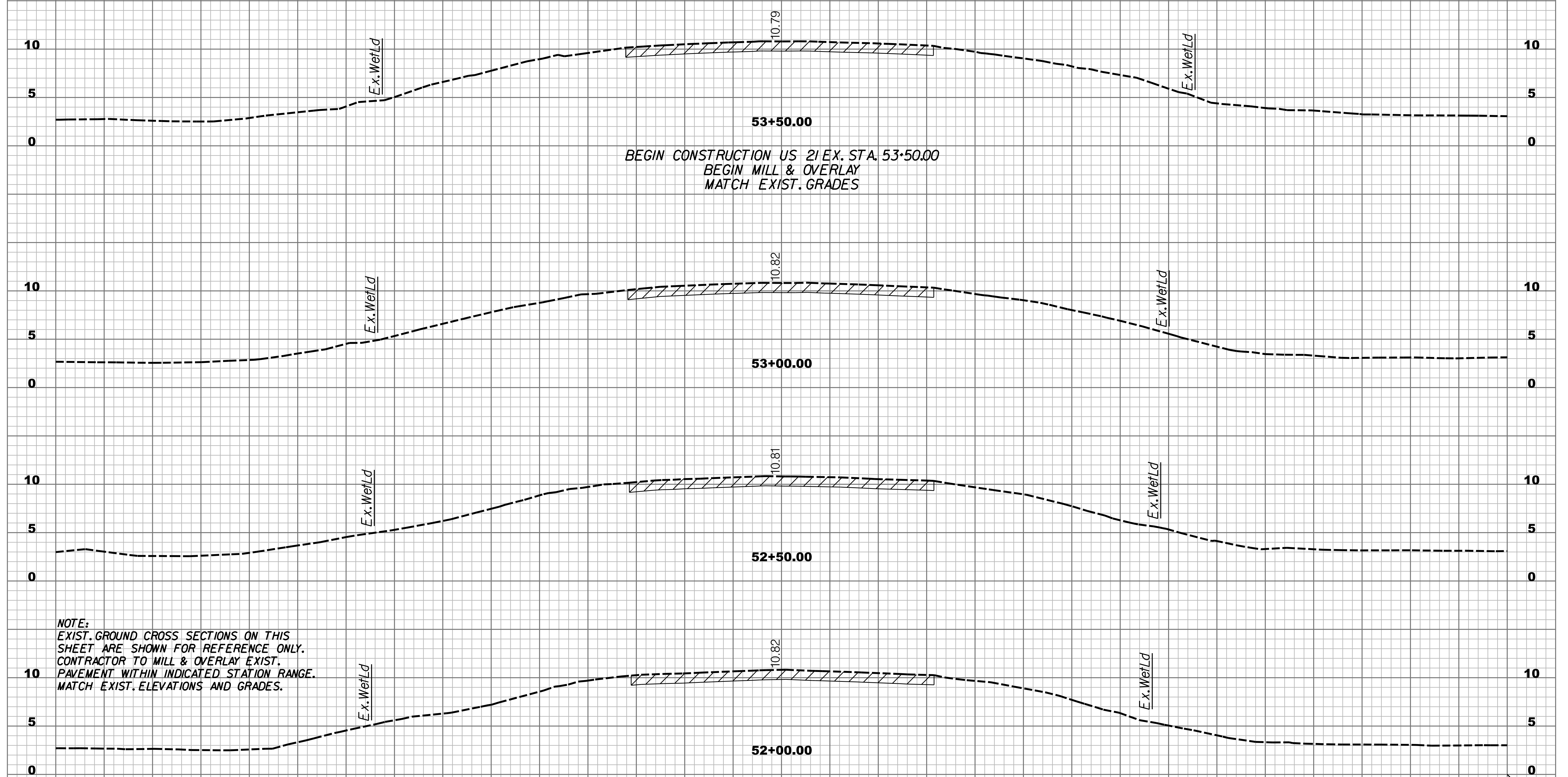
SCALE: 1"=150' RTE.US 21 DWG. US21_HRB_PM

US21_HRB_Traffic_PSH_150.dgn 3/20/2017

FED. RD. DIST. NO.	STATE	SCOTT PROJ. ID.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	X01

CONCEPTUAL PLANS
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BEGIN US 21 REL. ALIGNMENT
 BEGIN NEW FINISHED GRADE PROFILE
 TIE EQUALITY P.O.T. STA. 54+00.00 US 21 EX. - P.C. STA. 54+00.00 US 21 REL.

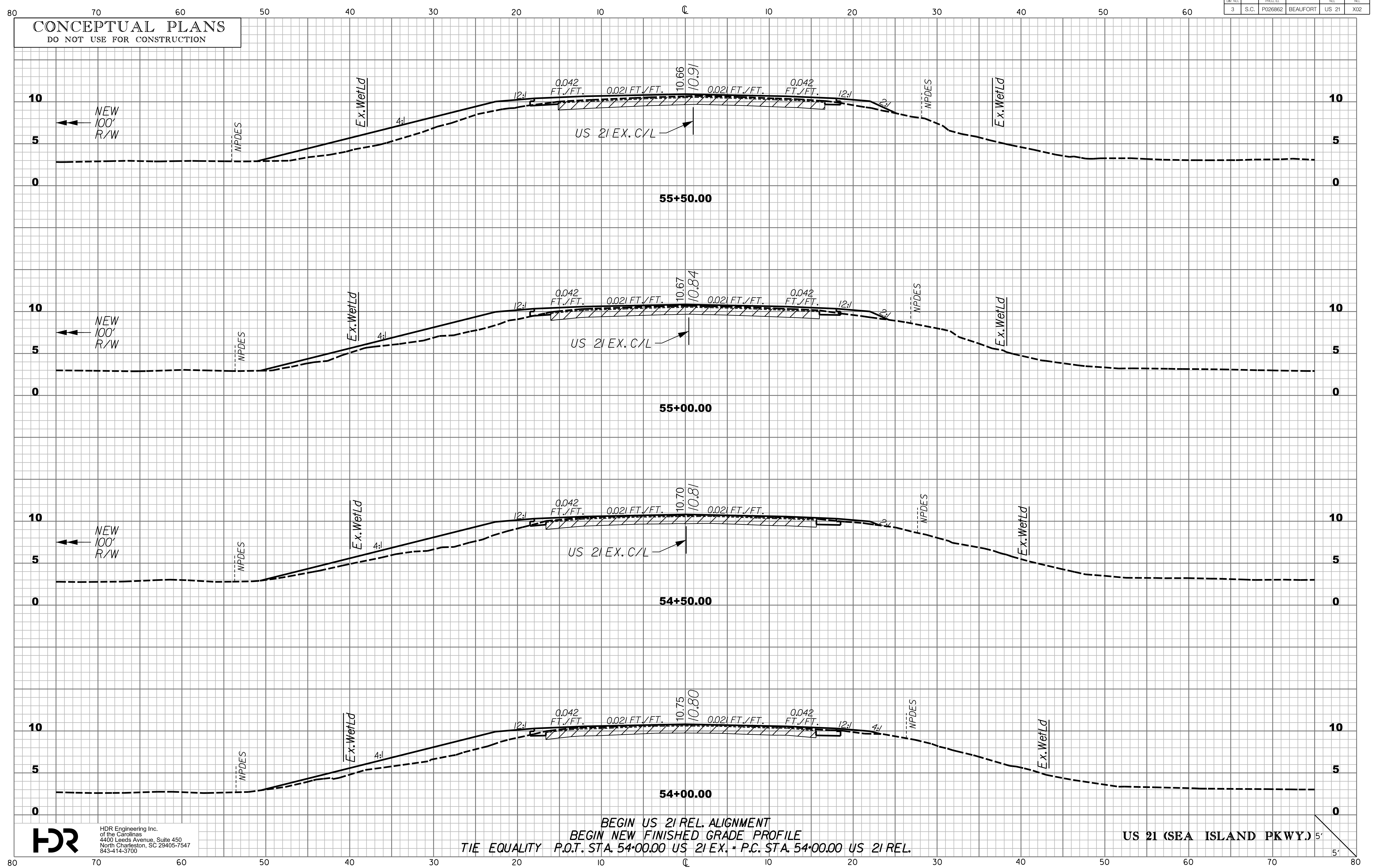


NOTE:
 EXIST. GROUND CROSS SECTIONS ON THIS SHEET ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR TO MILL & OVERLAY EXIST. PAVEMENT WITHIN INDICATED STATION RANGE. MATCH EXIST. ELEVATIONS AND GRADES.

US 21 (SEA ISLAND PKWY.) 5'

FED. RD. DIST. NO.	STATE	SCOTT PROJ. ID.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	X02

CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION



BEGIN US 21 REL. ALIGNMENT
 BEGIN NEW FINISHED GRADE PROFILE
 TIE EQUALITY P.O.T. STA. 54+00.00 US 21 EX. - P.C. STA. 54+00.00 US 21 REL.

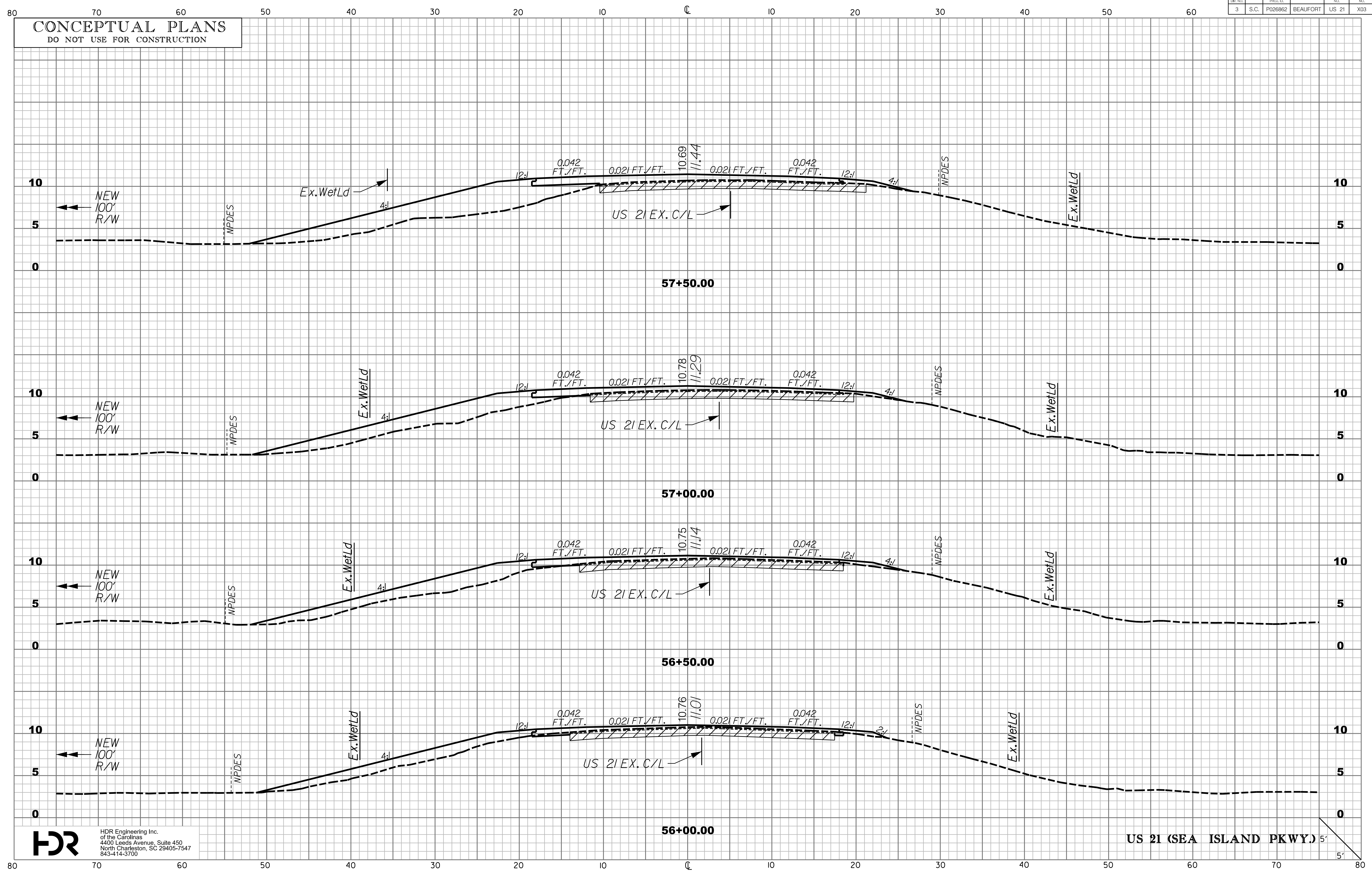
US 21 (SEA ISLAND PKWY.) 5'

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 North Charleston, SC 29405-7547
 843-414-3700

US21_HRB_XPL.dgn
 3/20/2017

FED. RD. DIST. NO.	STATE	SCOTT PROJ. ID.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	X03

CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION



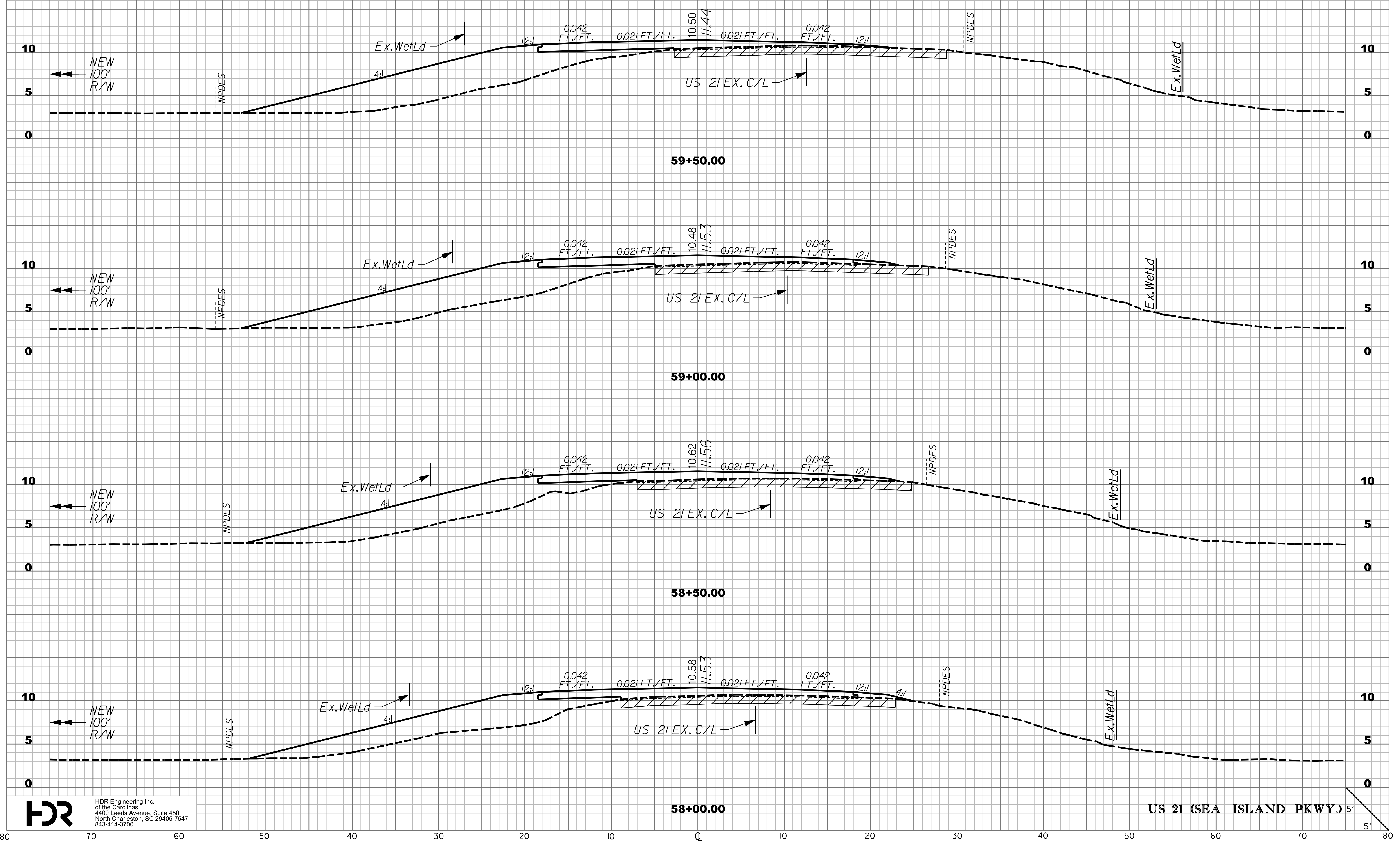
US21_HRB_XPL.dgn
3/20/2017

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North Charleston, SC 29405-7547
843-414-3700

US 21 (SEA ISLAND PKWY) 5'

FED. RD. DIST. NO.	STATE	SCDOT PROJ. ID.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	X04

CONCEPTUAL PLANS
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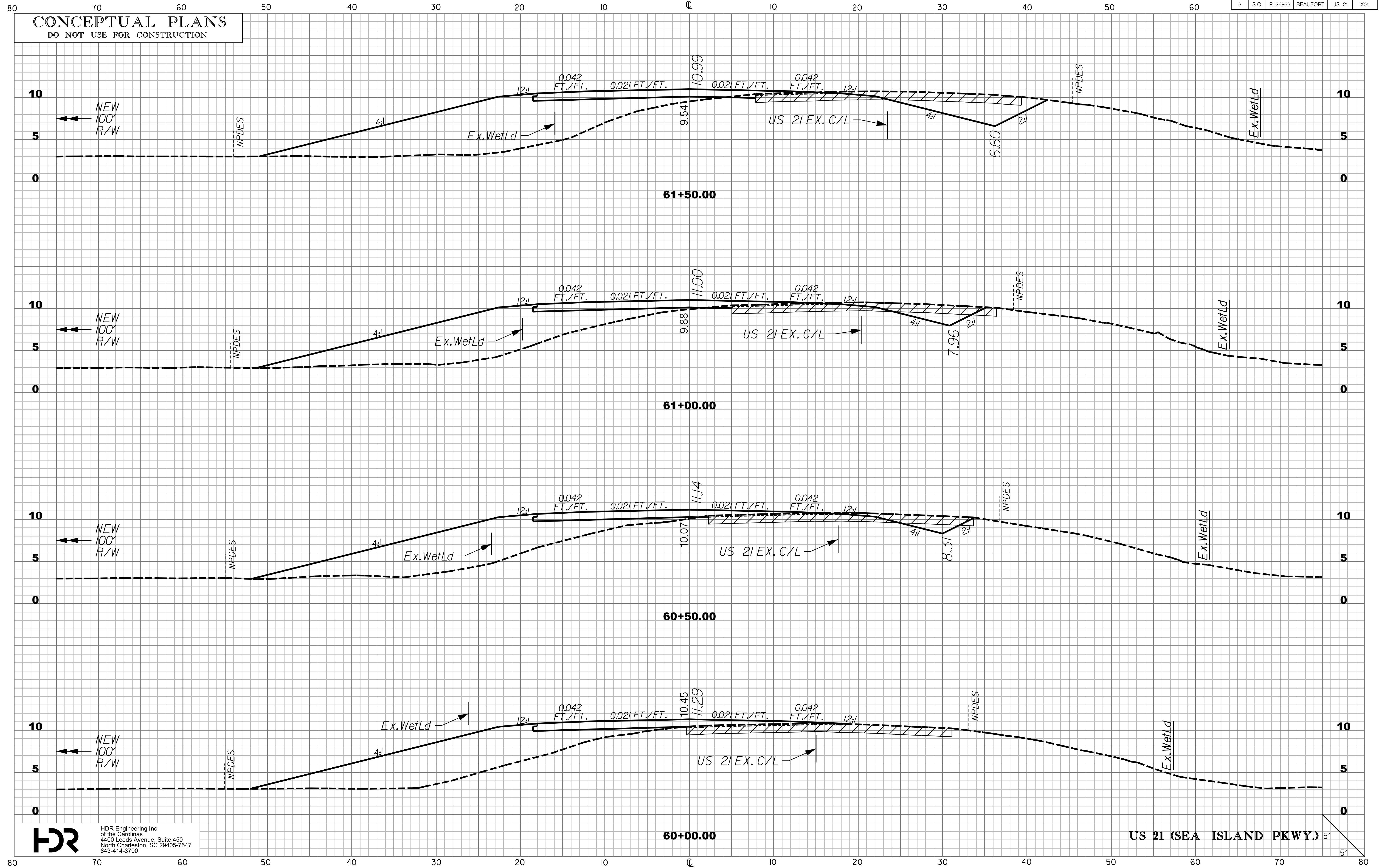
US21_HRB_XPL.dgn
3/20/2017

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843-414-3700

US 21 (SEA ISLAND PKWY) 5'

FED. RD. DIST. NO.	STATE	SCOTT PROJ. ID.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	X05

CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION



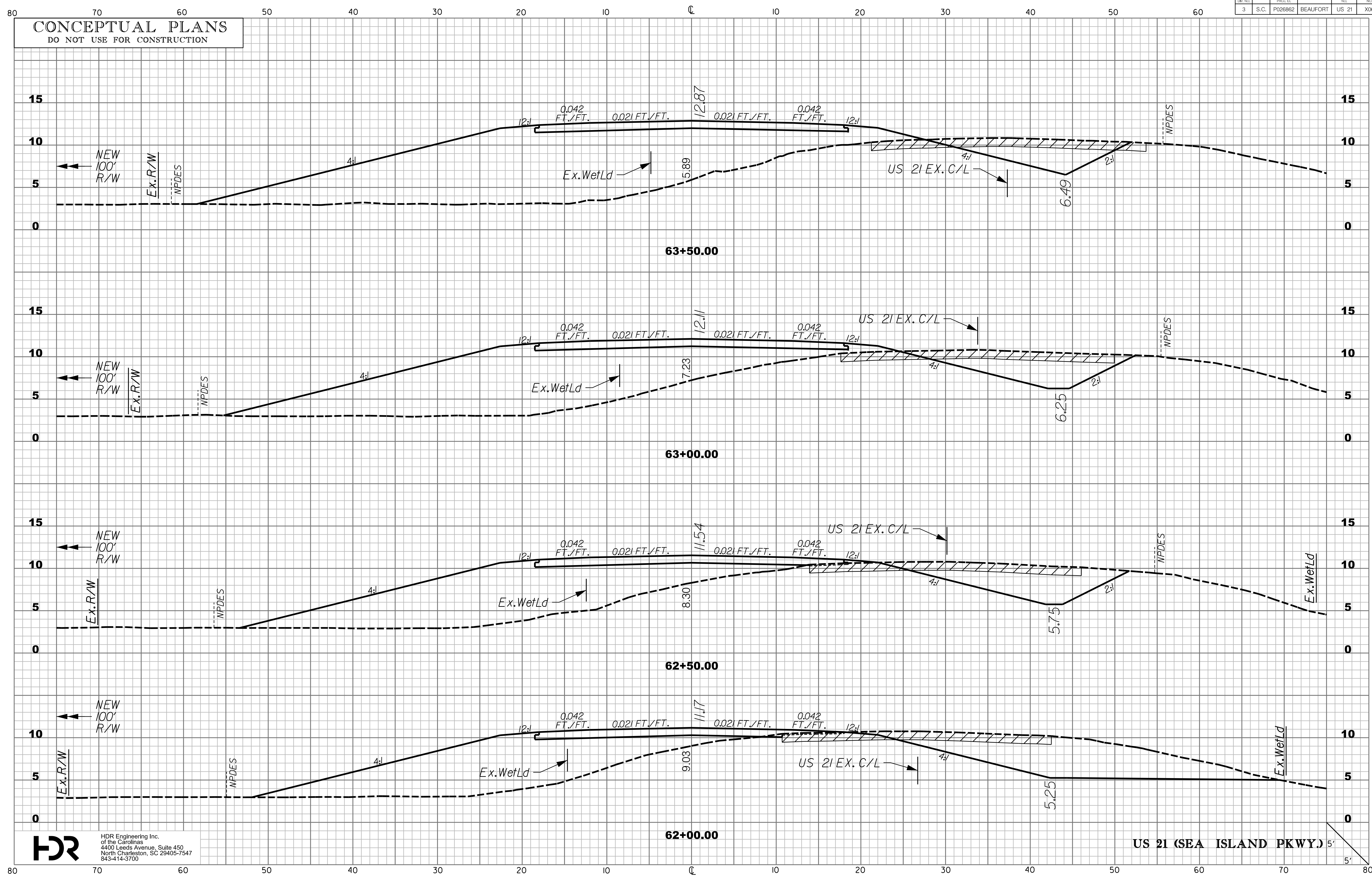
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3/20/2017

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843-414-3700

US 21 (SEA ISLAND PKWY) 5'

FED. RD. DIST. NO.	STATE	SCDOT PROJ. ID.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	X06

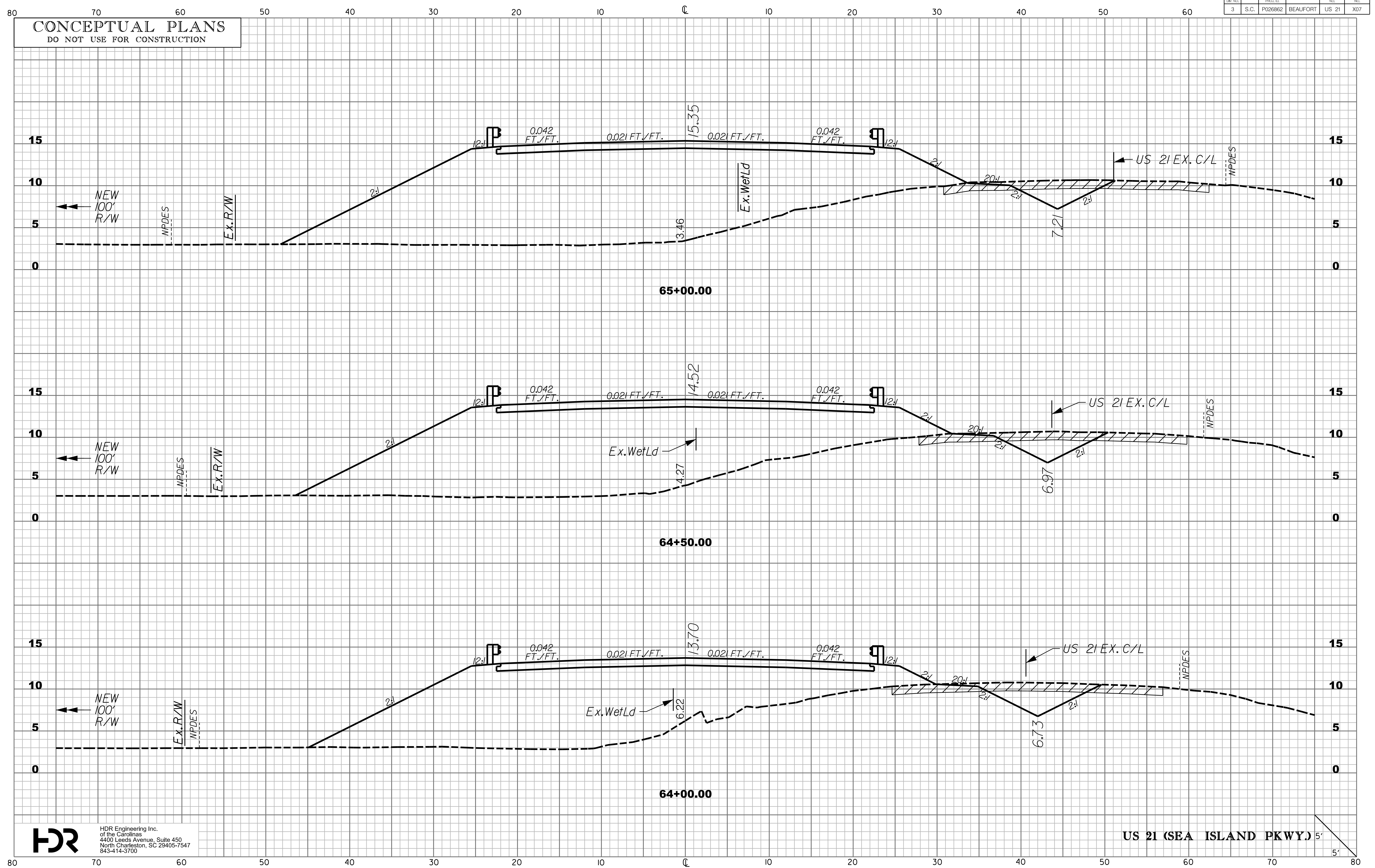
CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION



US21_HRB_XPL.dgn
3/20/2017

FED. RD. DIST. NO.	STATE	SCDOT PROJ. ID.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	X07

CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION



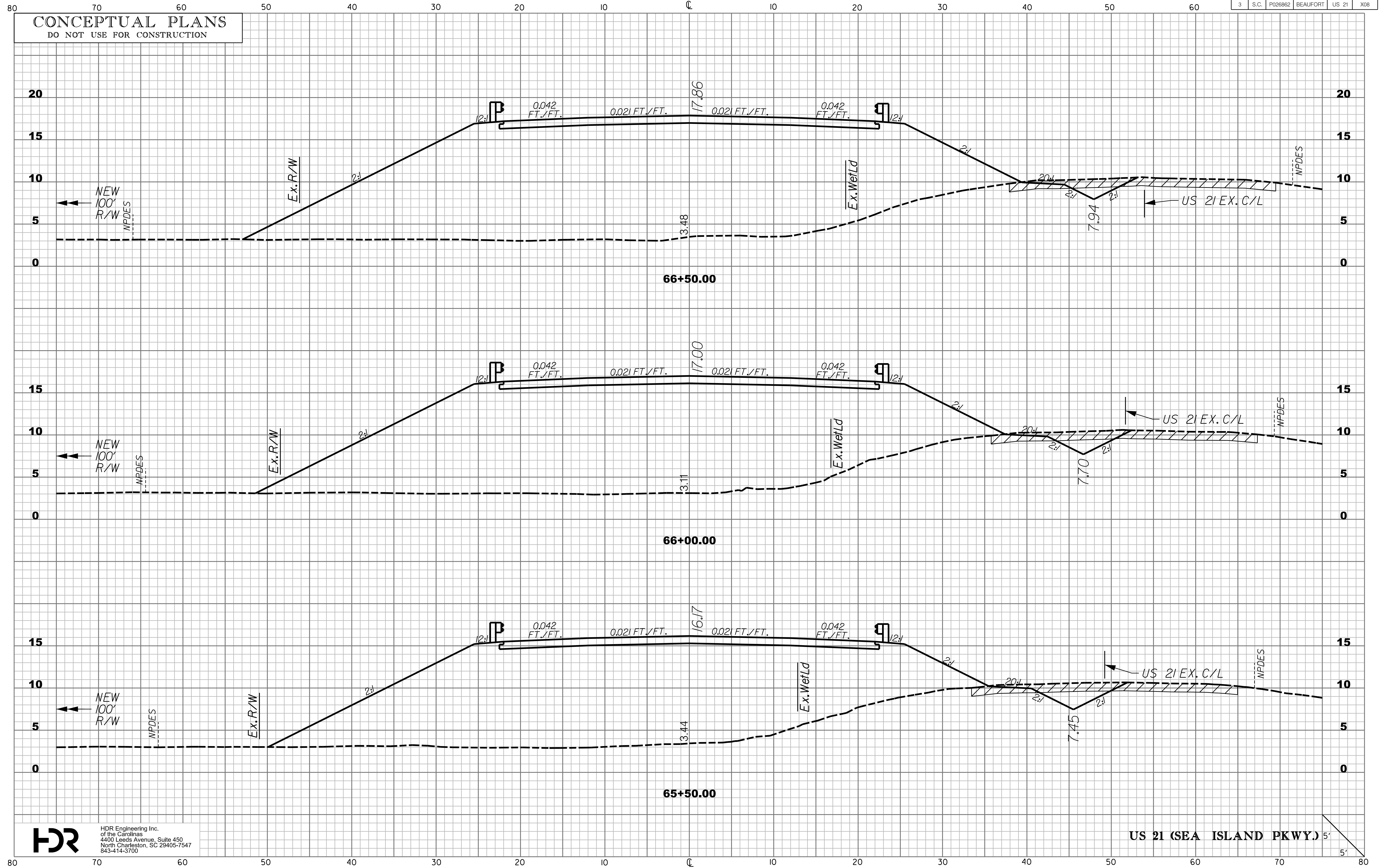
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3/20/2017

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843-414-3700

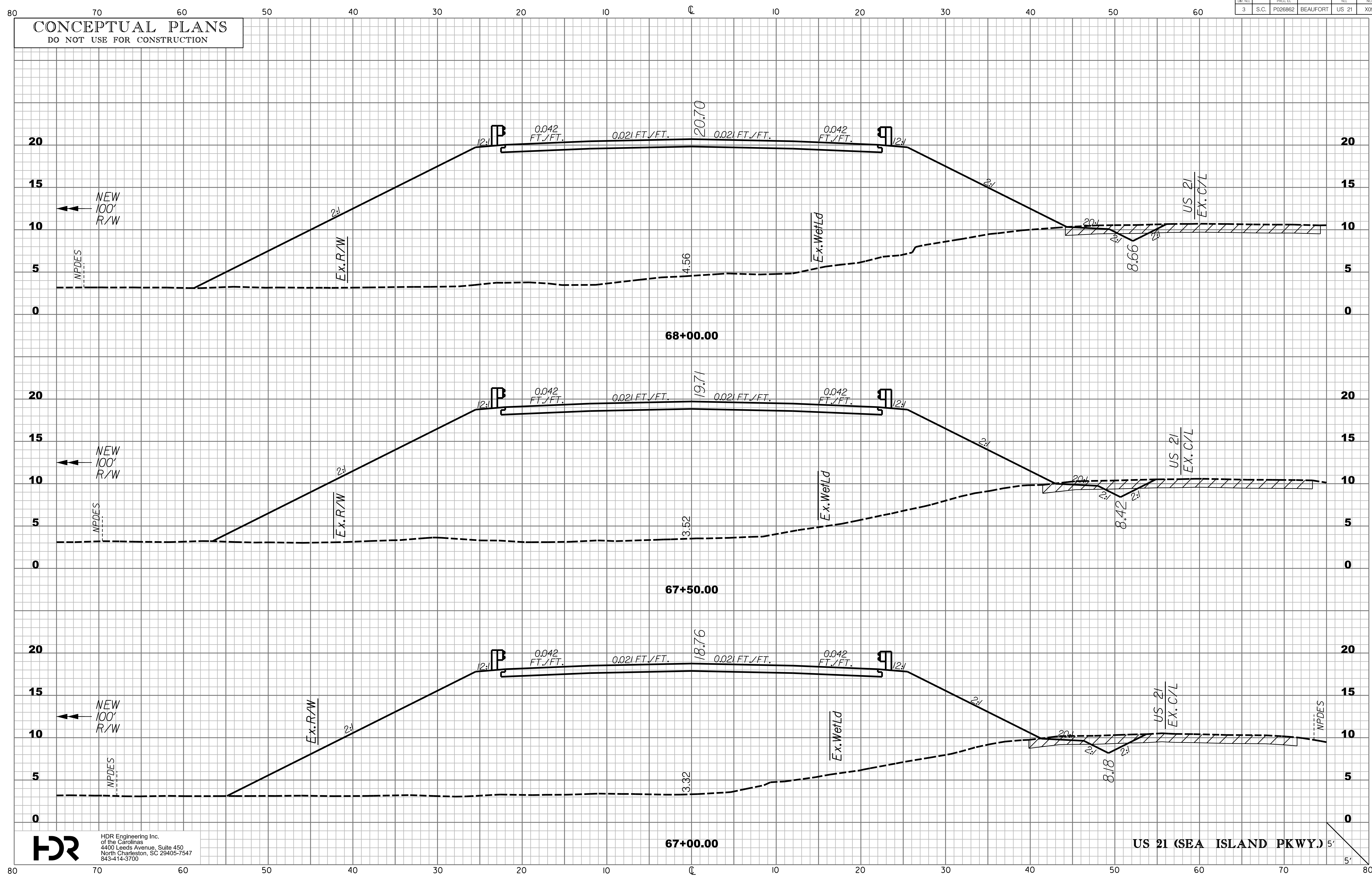
US 21 (SEA ISLAND PKWY) 5'

FED. RD. DIST. NO.	STATE	SCOTT PROJ. ID.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	X08

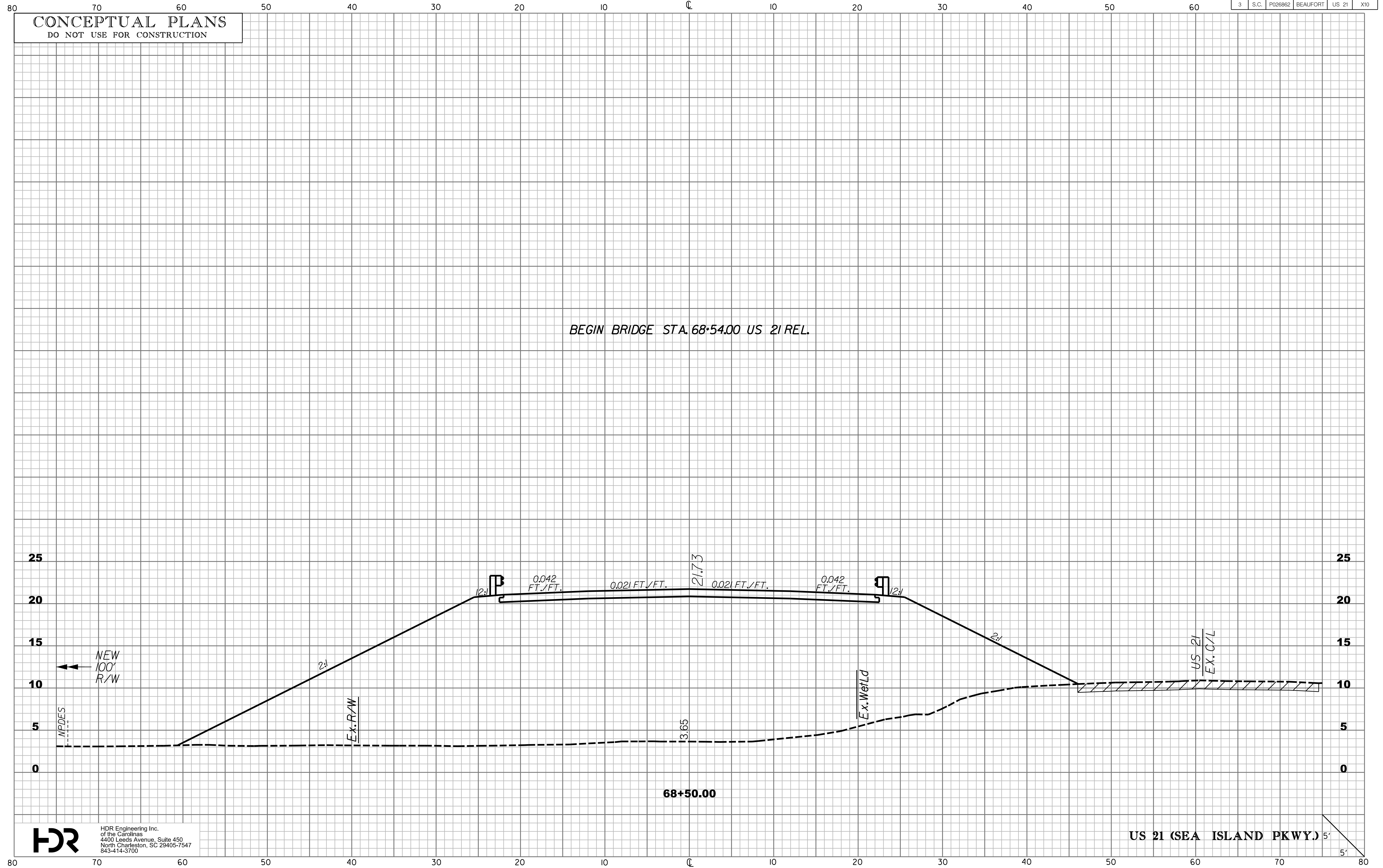
CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION



CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION



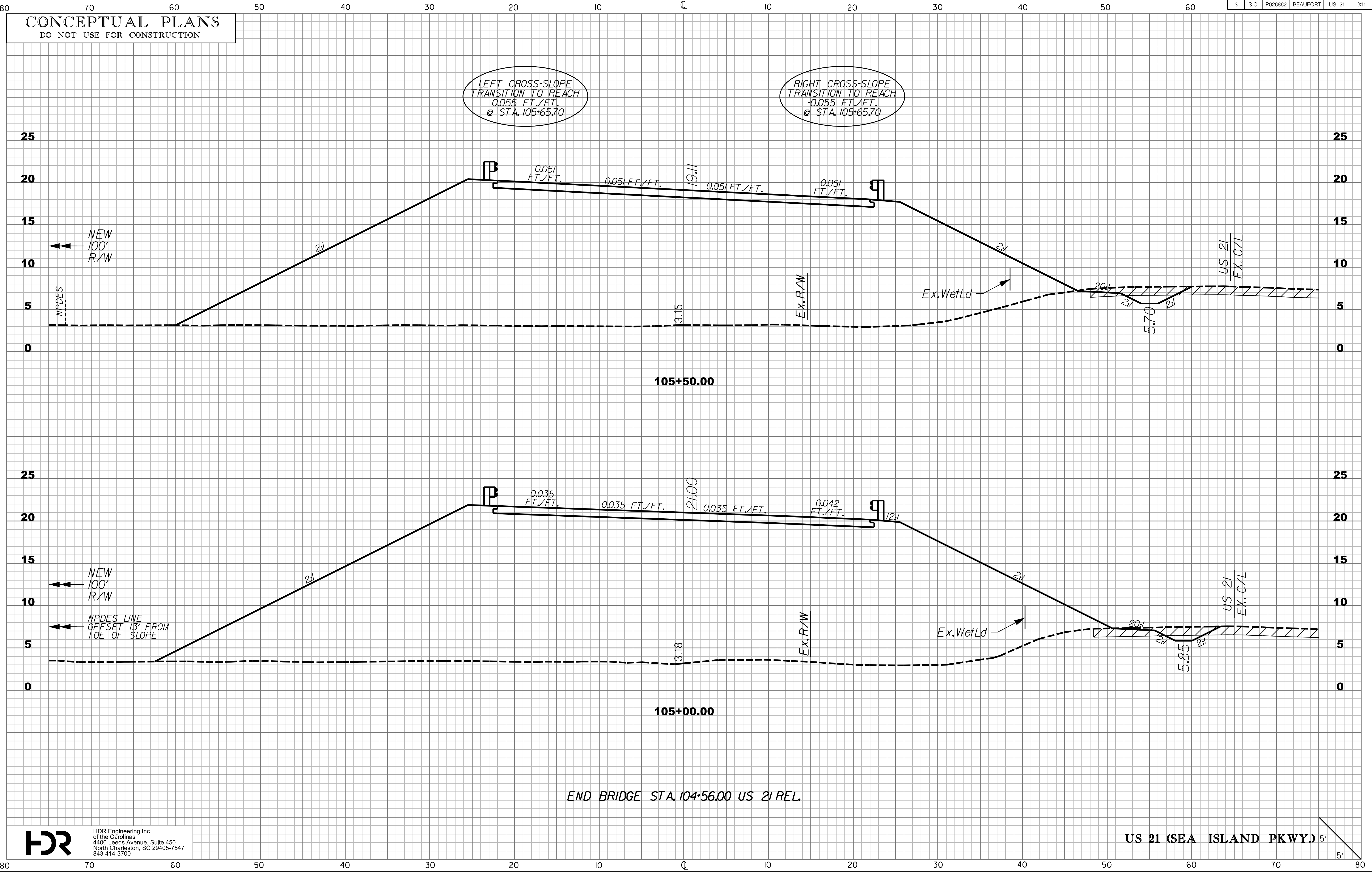
FED. RD. DIST. NO.	STATE	SCOTT PROJ. ID.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	X10



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FED. RD. DIST. NO.	STATE	SCOTT PROJ. ID.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	X11



CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION

LEFT CROSS-SLOPE
TRANSITION TO REACH
-0.055 FT./FT.
@ STA. 105+65.70

RIGHT CROSS-SLOPE
TRANSITION TO REACH
-0.055 FT./FT.
@ STA. 105+65.70

NEW
100'
R/W

NPDES

105+50.00

NEW
100'
R/W

NPDES LINE
OFFSET 13' FROM
TOE OF SLOPE

105+00.00

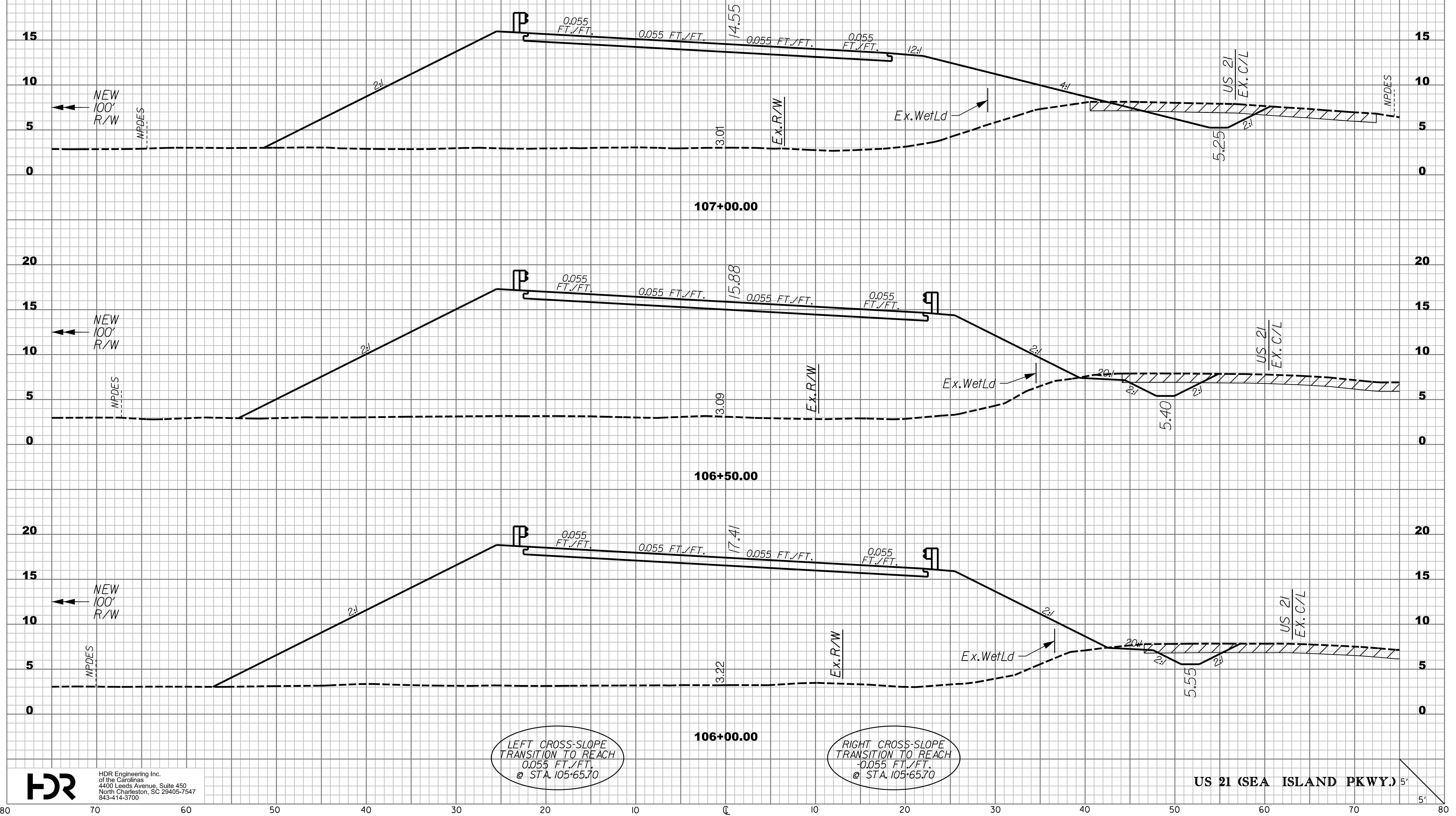
END BRIDGE STA. 104+56.00 US 21 REL.

US 21 (SEA ISLAND PKWY.) 5'

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CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION

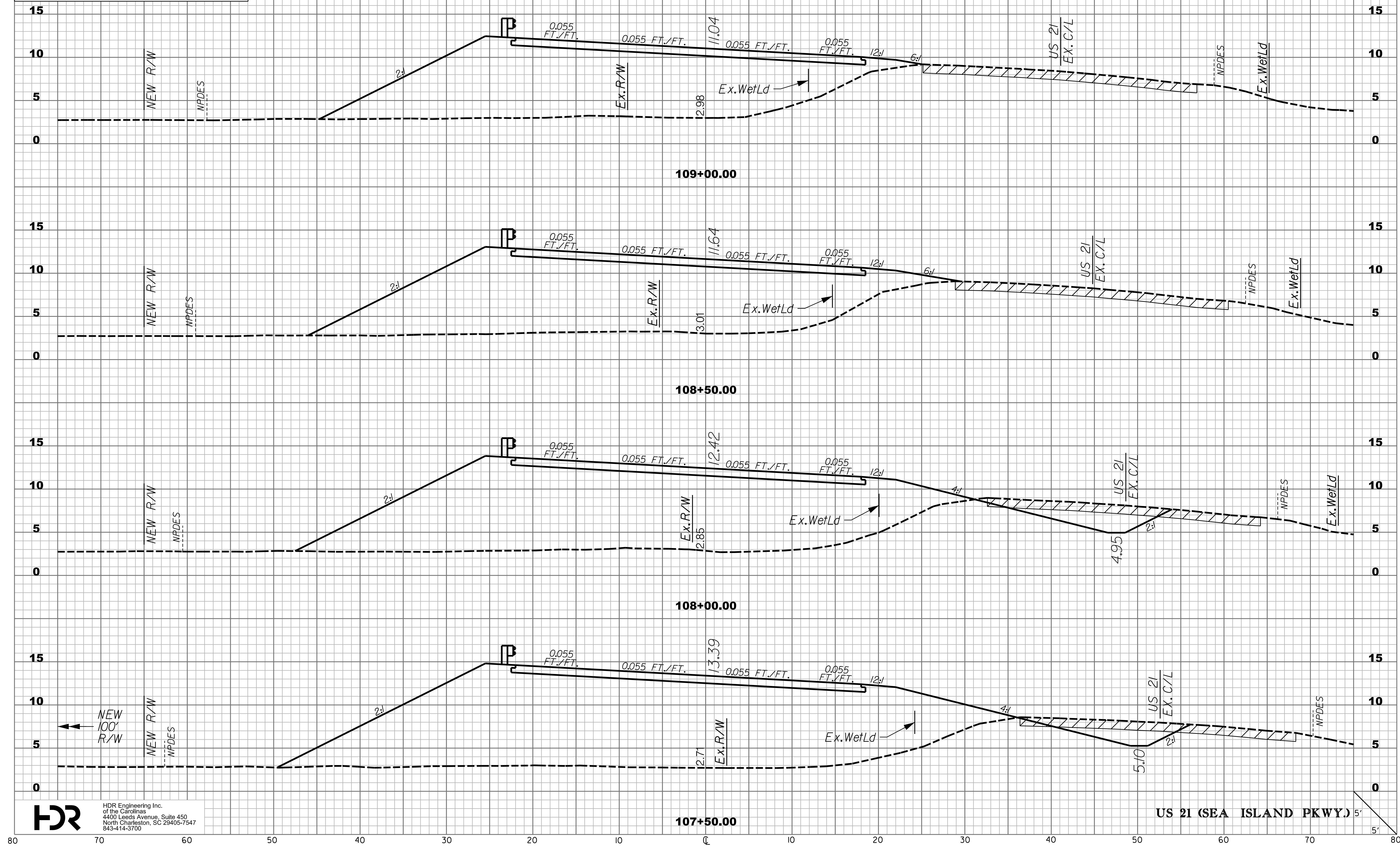


LEFT CROSS-SLOPE
TRANSITION TO REACH
0.055 FT./FT.
@ STA. 105+65.70

RIGHT CROSS-SLOPE
TRANSITION TO REACH
-0.055 FT./FT.
@ STA. 105+65.70

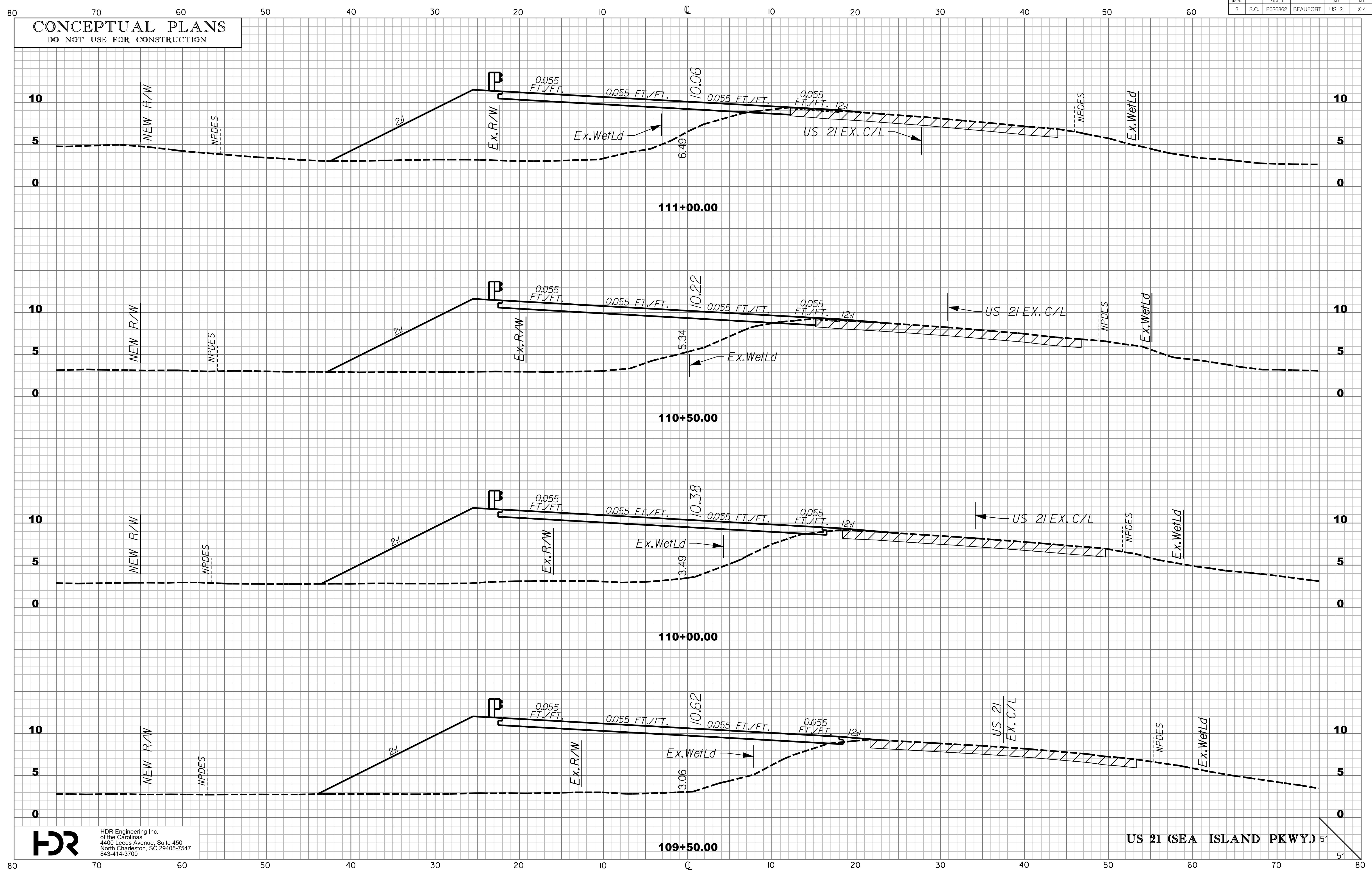
US 21 (SEA ISLAND PKWY.) 5'

CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION



FED. RD. DIST. NO.	STATE	SCDOT PROJ. ID.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	X14

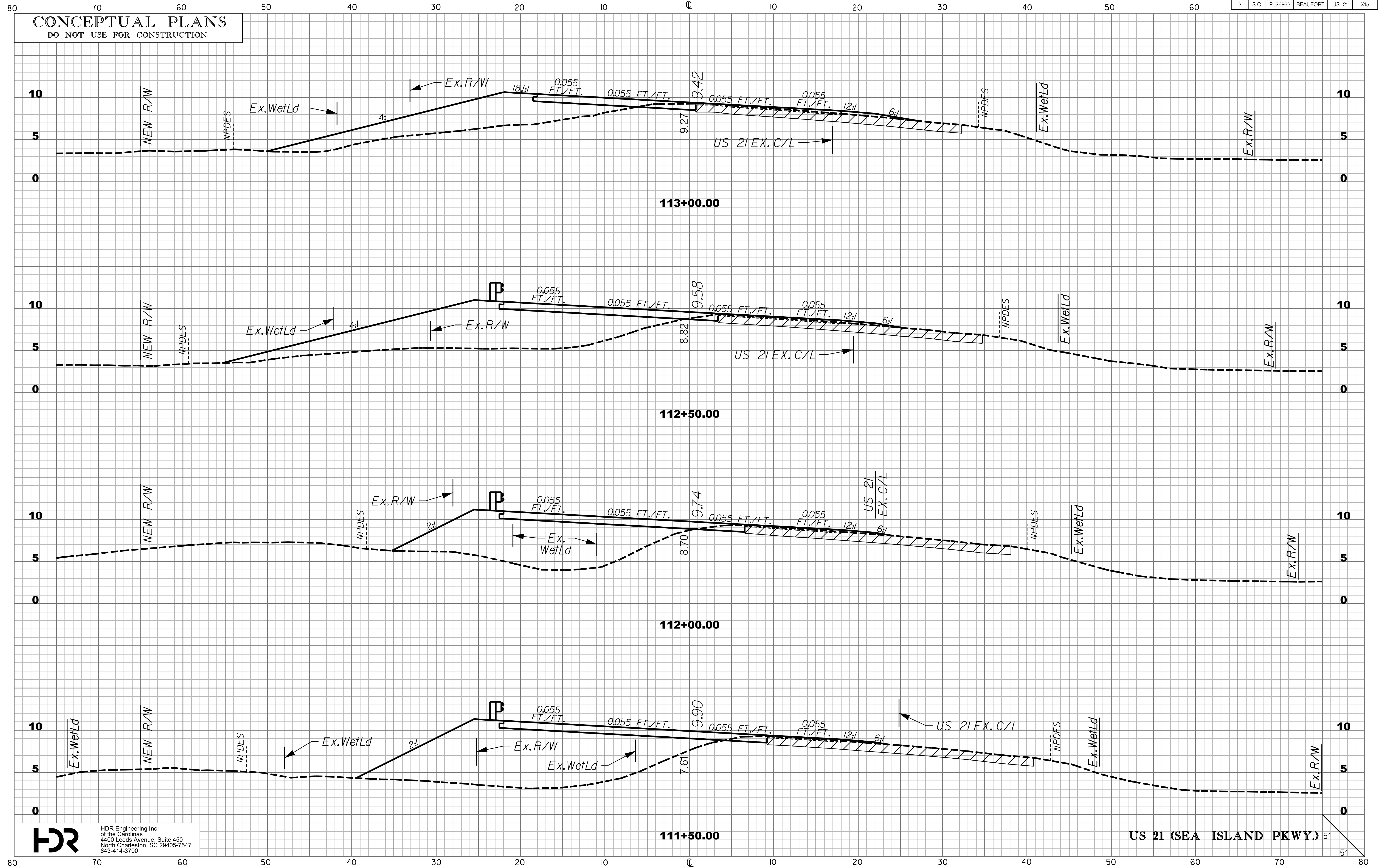
CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION



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3/20/2017

FED. RD. DIST. NO.	STATE	SCOTT PROJ. ID.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	X15

CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION

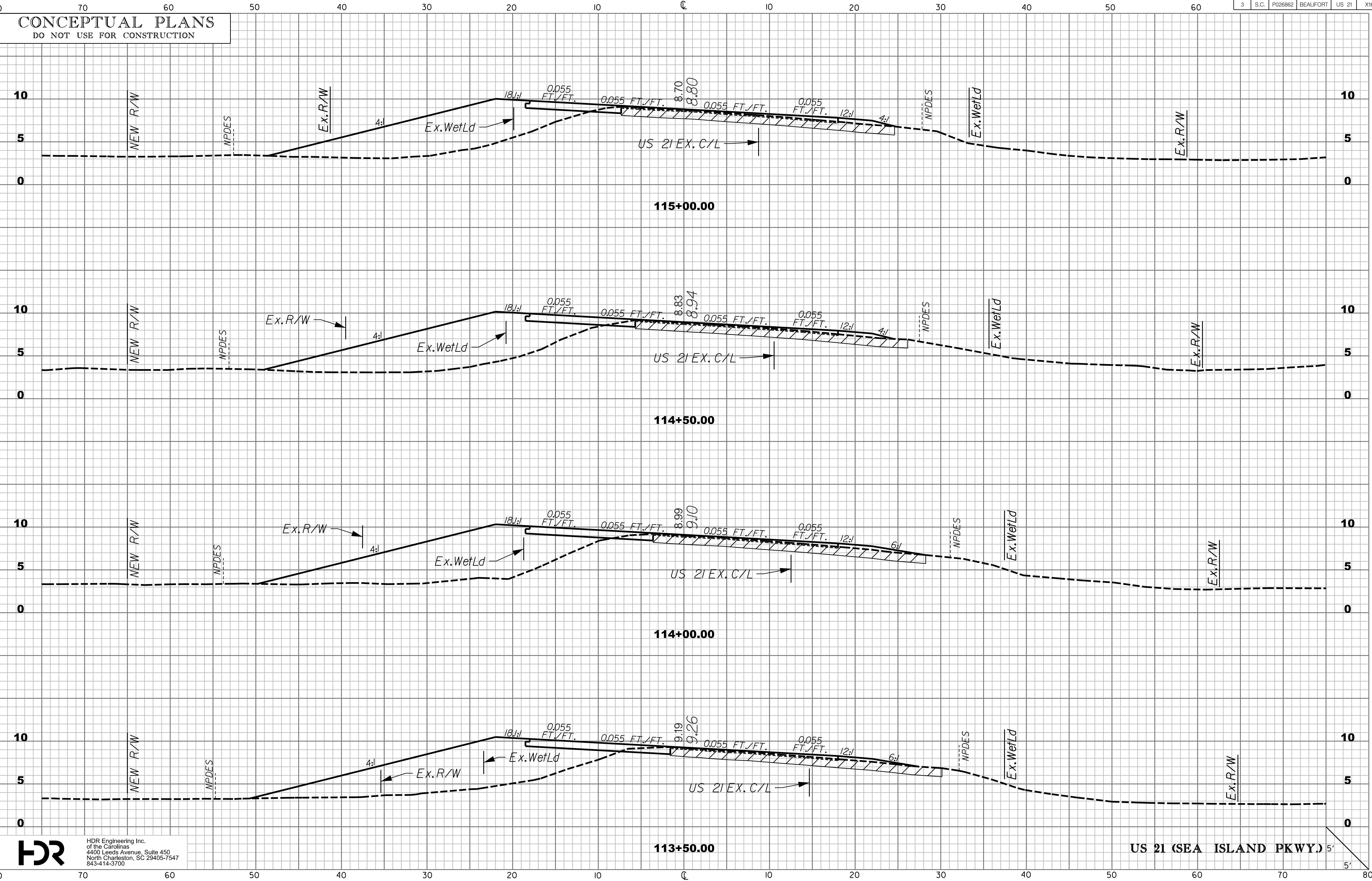


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US 21 (SEA ISLAND PKWY) 5'

FED. RD. DIST. NO.	STATE	SCOTT PROJ. ID.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	X16



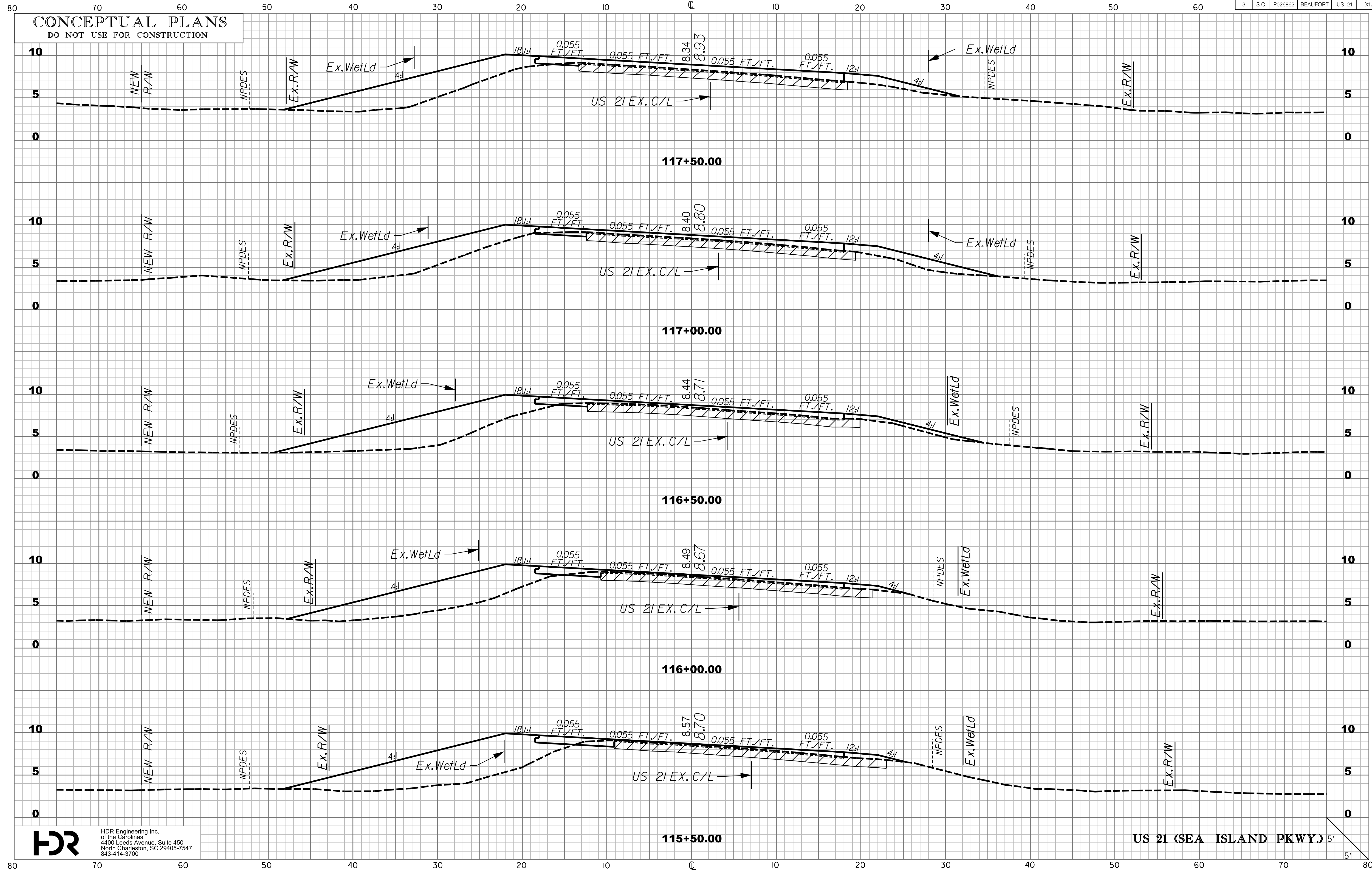
CONCEPTUAL PLANS
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843-414-3700

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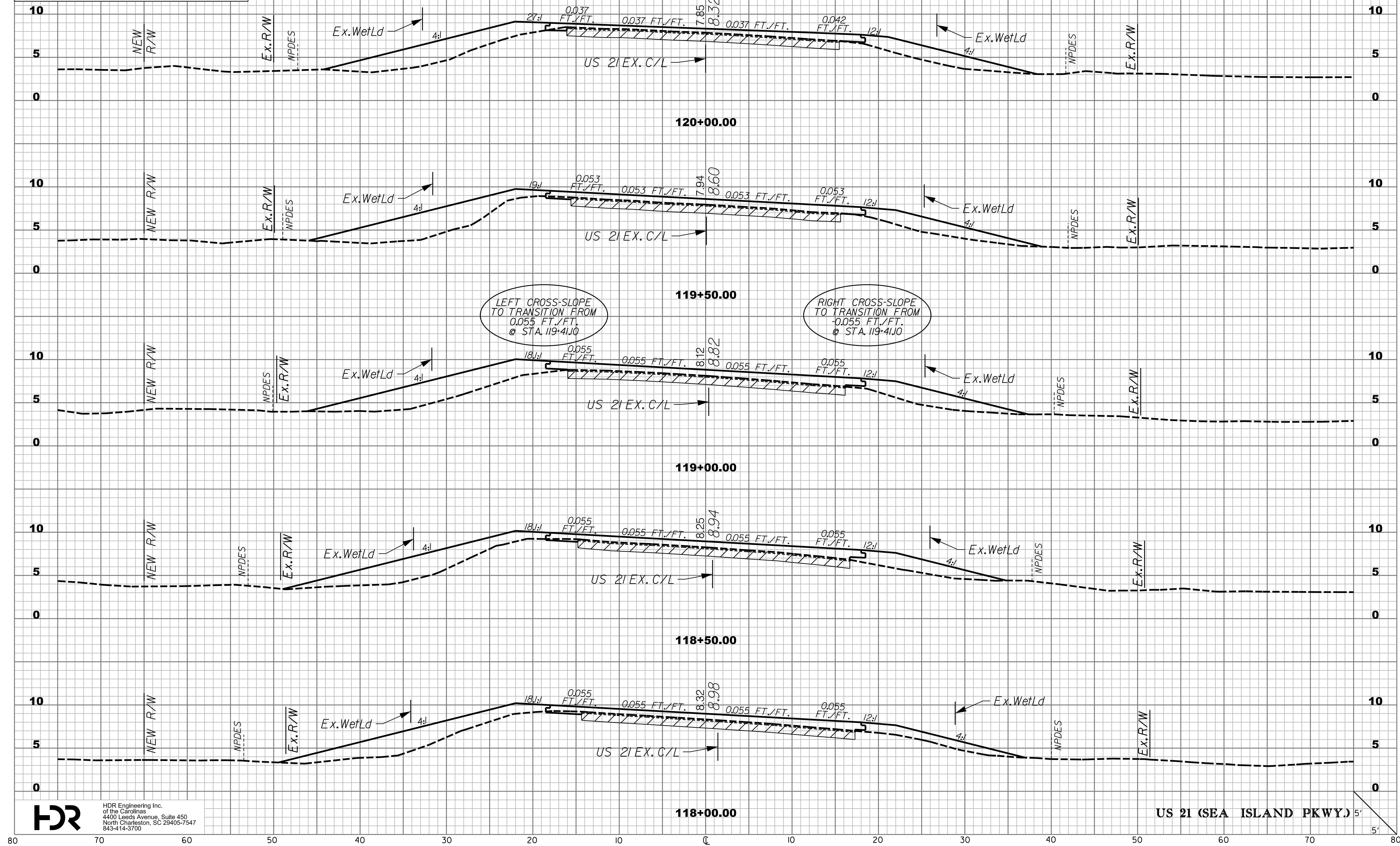
US 21 (SEA ISLAND PKWY) 5'

CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION



CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION

TIE EQUALITY P.O.T. STA. 120+00.45 US 21 REL. - P.T. STA. 119+83.90 US 21 EX.

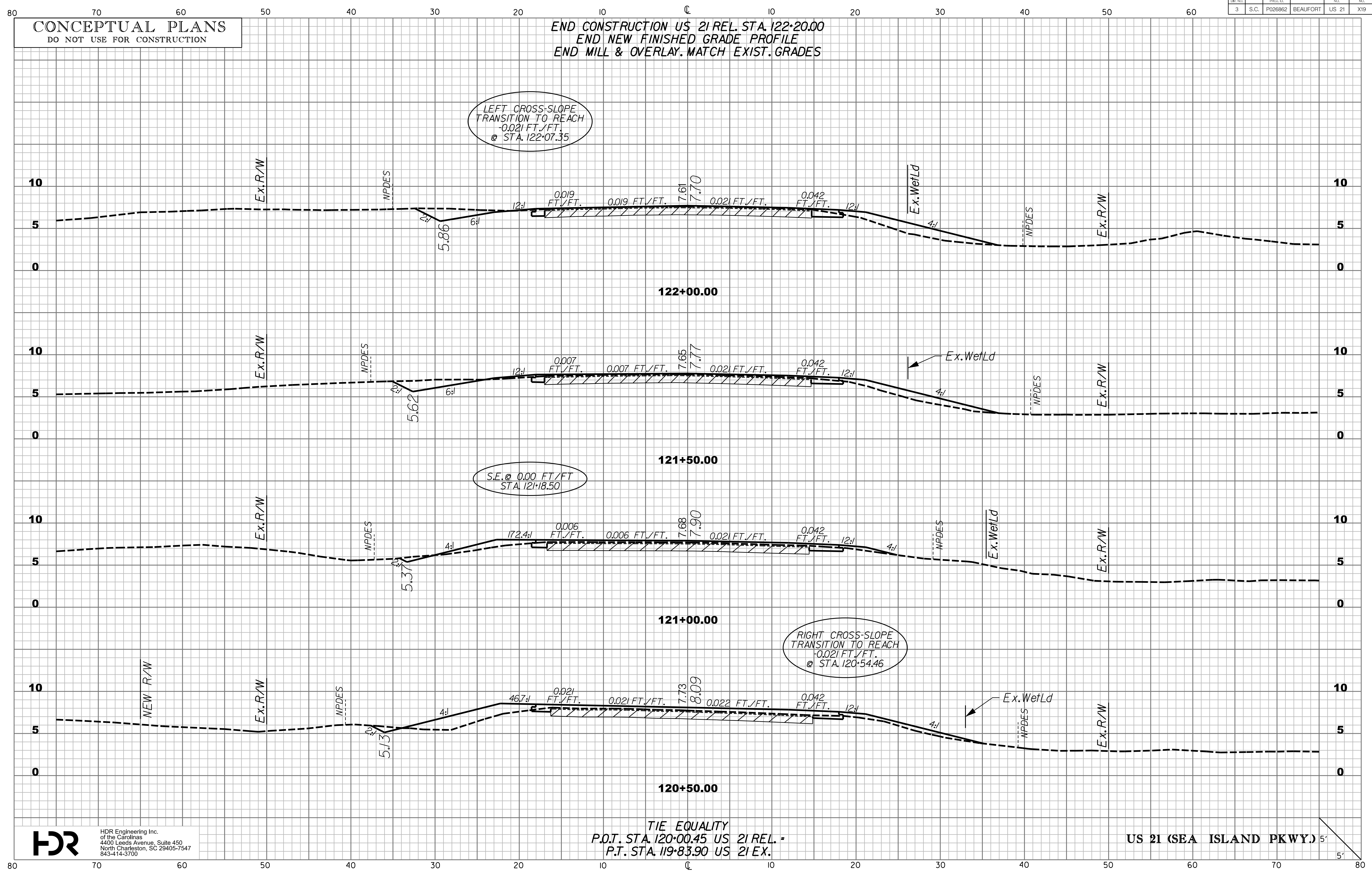


LEFT CROSS-SLOPE TO TRANSITION FROM 0.055 FT./FT. @ STA. 119+41.10

RIGHT CROSS-SLOPE TO TRANSITION FROM -0.055 FT./FT. @ STA. 119+41.10

CONCEPTUAL PLANS
DO NOT USE FOR CONSTRUCTION

END CONSTRUCTION US 21 REL. STA. 122+20.00
END NEW FINISHED GRADE PROFILE
END MILL & OVERLAY MATCH EXIST. GRADES



LEFT CROSS-SLOPE
TRANSITION TO REACH
-0.021 FT./FT.
@ STA. 122+07.35

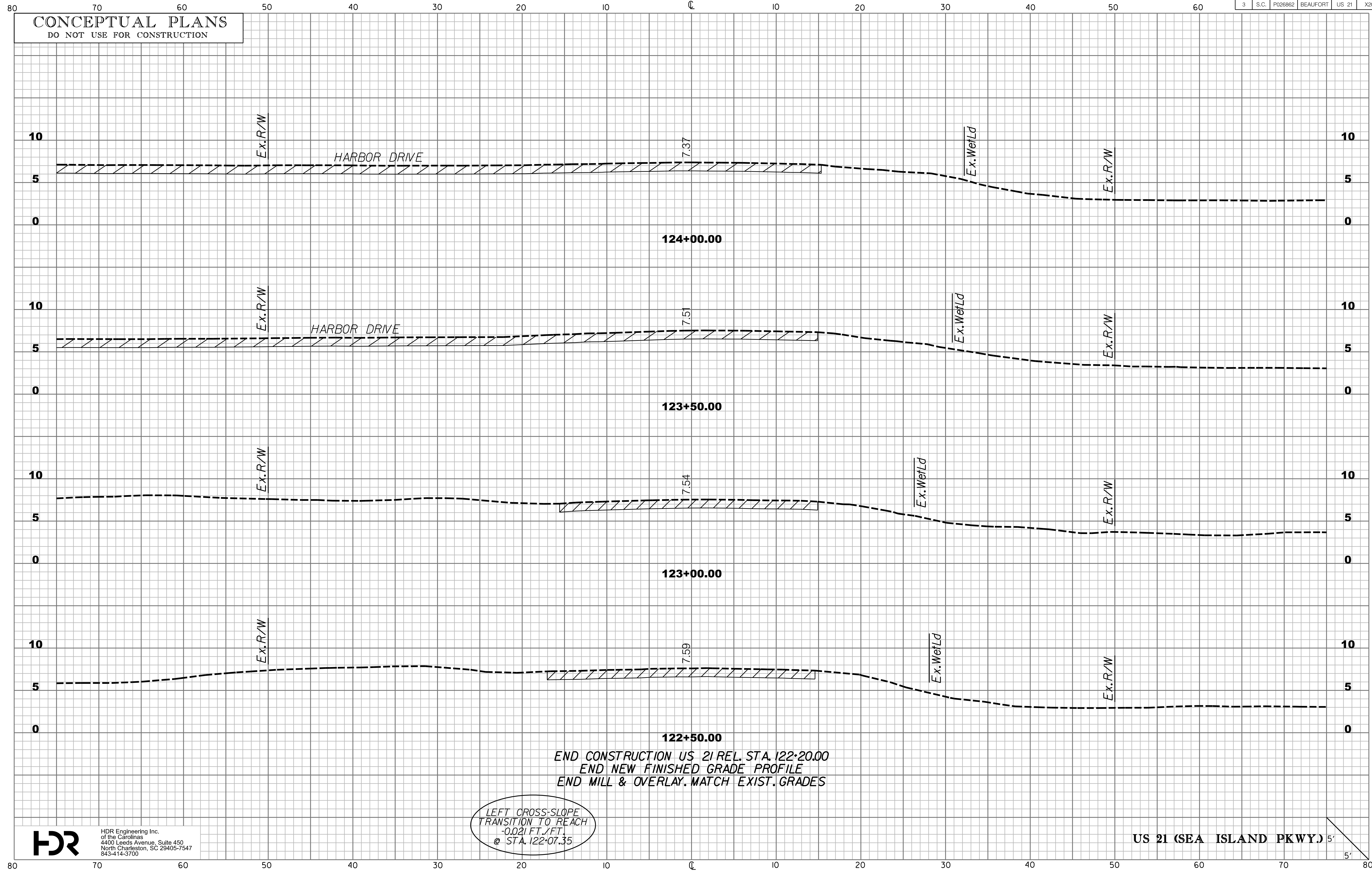
S.E. @ 0.00 FT./FT.
STA. 121+18.50

RIGHT CROSS-SLOPE
TRANSITION TO REACH
-0.021 FT./FT.
@ STA. 120+54.46

TIE EQUALITY
P.O.T. STA. 120+00.45 US 21 REL. -
P.T. STA. 119+83.90 US 21 EX.

US 21 (SEA ISLAND PKWY.) 5'

FED. RD. DIST. NO.	STATE	SCOTT PROJ. ID.	COUNTY	ROUTE NO.	SHEET NO.
3	S.C.	P026862	BEAUFORT	US 21	X20



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