TIP PROJECT: R-2721

CONTRACT:

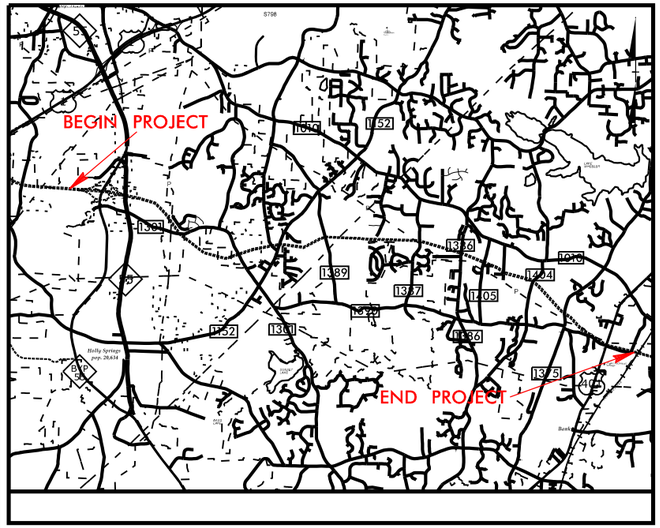
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WAKE COUNTY

BUFFER DRAWING SHEET 1 OF 19

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2721	1	

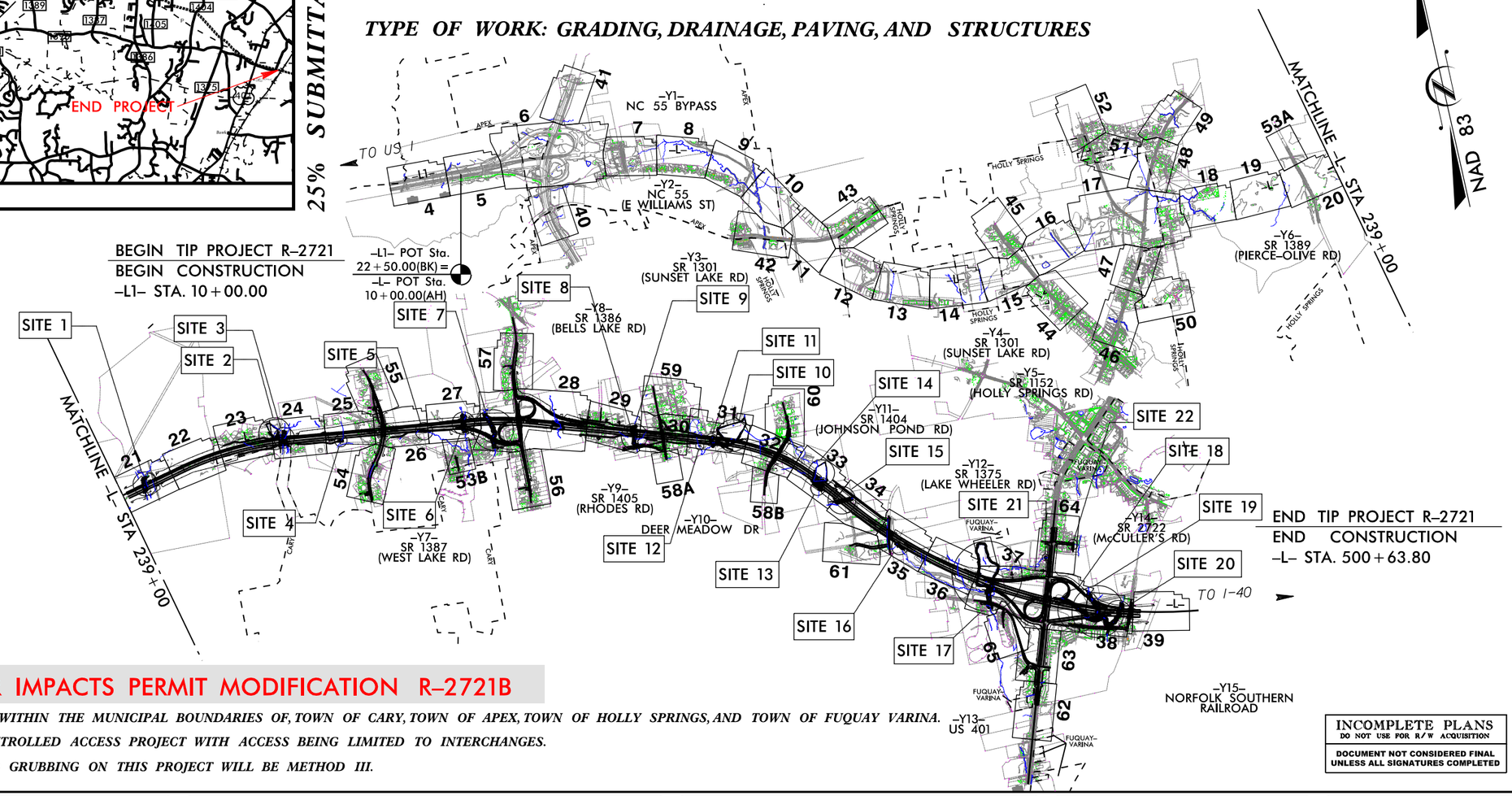
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
6.401078	STP-540(19)	PE



25% SUBMITTAL

LOCATION: COMPLETE 540 – FROM WEST OF NC55 TO EAST OF HWY 401

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



BUFFER IMPACTS PERMIT MODIFICATION R-2721B

THIS PROJECT WITHIN THE MUNICIPAL BOUNDARIES OF, TOWN OF CARY, TOWN OF APEX, TOWN OF HOLLY SPRINGS, AND TOWN OF FUQUAY VARINA.
THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.
CLEARING AND GRUBBING ON THIS PROJECT WILL BE METHOD III.

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

GRAPHIC SCALES

50′ 25′ 0 50′ 100′ — PLANS

50′ 25′ 0 50′ 100′ — PROFILE (HORIZONTAL)

10′ 5′ 0 10′ 20′ — PROFILE (VERTICAL)

DESIGN DATA

ADT 2018 = 28,200
ADT 2040 = 66,400
K = 12 %
D = 65 %
T = 11 % *
V = 75 MPH
* TTST = 7% DUAL 4%

FUNC CLASS = INTERSTATE

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-2721	=9.529 Miles
LENGTH STRUCTURES	=0.178 Miles
TOTAL LENGTH TIP PROJECT R-2721	=9.351 Miles

Prepared In the Office of:
FLATIRON
BRANCH INC.
HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
February 18, 2020

LETTING DATE:
February 18, 2020

Brian K. Eason, PE
PROJECT ENGINEER

Christina L. Yokeley, EI
PROJECT DESIGN ENGINEER

NCDOT CONTACT

HYDRAULICS ENGINEER
SIGNATURE: P.E.

ROADWAY DESIGN ENGINEER
SIGNATURE: P.E.

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

8/7/2019
R2721_PSH_01TSH_buf.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2721	21
R-2721B ROADWAY SHEET NO. 4 & 5	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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BUFFER DRAWING SHEET 2 OF 19

100' 0' 100'
GRAPHIC SCALE

END TIP PROJECT R-2721A
BEGIN TIP PROJECT R-2721B
-L- STA. 240+00.00
N 700984.6666, E 2066219.5812

MITIGABLE IMPACTS ZONE 1
MITIGABLE IMPACTS ZONE 2

FILL SLOPE CHANGE

SAK
WAT
WAR
SAJ
WAS
SAJ
WAS

CLASS 'II' RIP RAP
EST 160 TONS
245 SY GEOTEXTILE
SEE SHEET 2D-2
DETAIL AB

18" CSP W/ELBOWS

14'x10' RCBC
(FUTURE GREENWAY)

SITE 1

MATCHLINE SHEET 20
-L- STA 239+00.00

MATCHLINE SHEET 22
-L- STA 252+00.00

N 77° 00' 00.1" E

30" RCP-III
15" RCP-III
24" RCP-III

CAT-1
GREU TL-3

CLASS 'II' RIP RAP
EST 195 TONS
215 SY GEOTEXTILE
SEE SHEET 2D-2
DETAIL BA

ENERGY DISSIPATOR BASIN #1

END WW FENCE

TDE

INLET DETAIL BA
NTS
3 @ 8'x10' RCBC
EXCAVATION EST 32 TONS
NG
CLASS II RIP RAP W/GEOTEXTILE (TYP) THICKNESS = 2'
FILL W/ CLASS II RIP RAP

OUTLET DETAIL AA
NTS
3 @ 8'x10' RCBC
EXCAVATION EST 26 TONS
NG
CLASS II RIP RAP W/GEOTEXTILE (TYP) THICKNESS = 2'
FILL W/ CLASS II RIP RAP
CLASS I RIP RAP W/GEOTEXTILE (TYP) THICKNESS = 1.5'
CLASS II RIP RAP W/GEOTEXTILE (TYP) THICKNESS = 2'

8/8/2019
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R2721_PSH_21_02buf.dgn

BUFFER DRAWING
SHEET 3 OF 19

PROJECT REFERENCE NO.	SHEET NO.
R-2721	23
R-2721B ROADWAY SHEET NO. 7	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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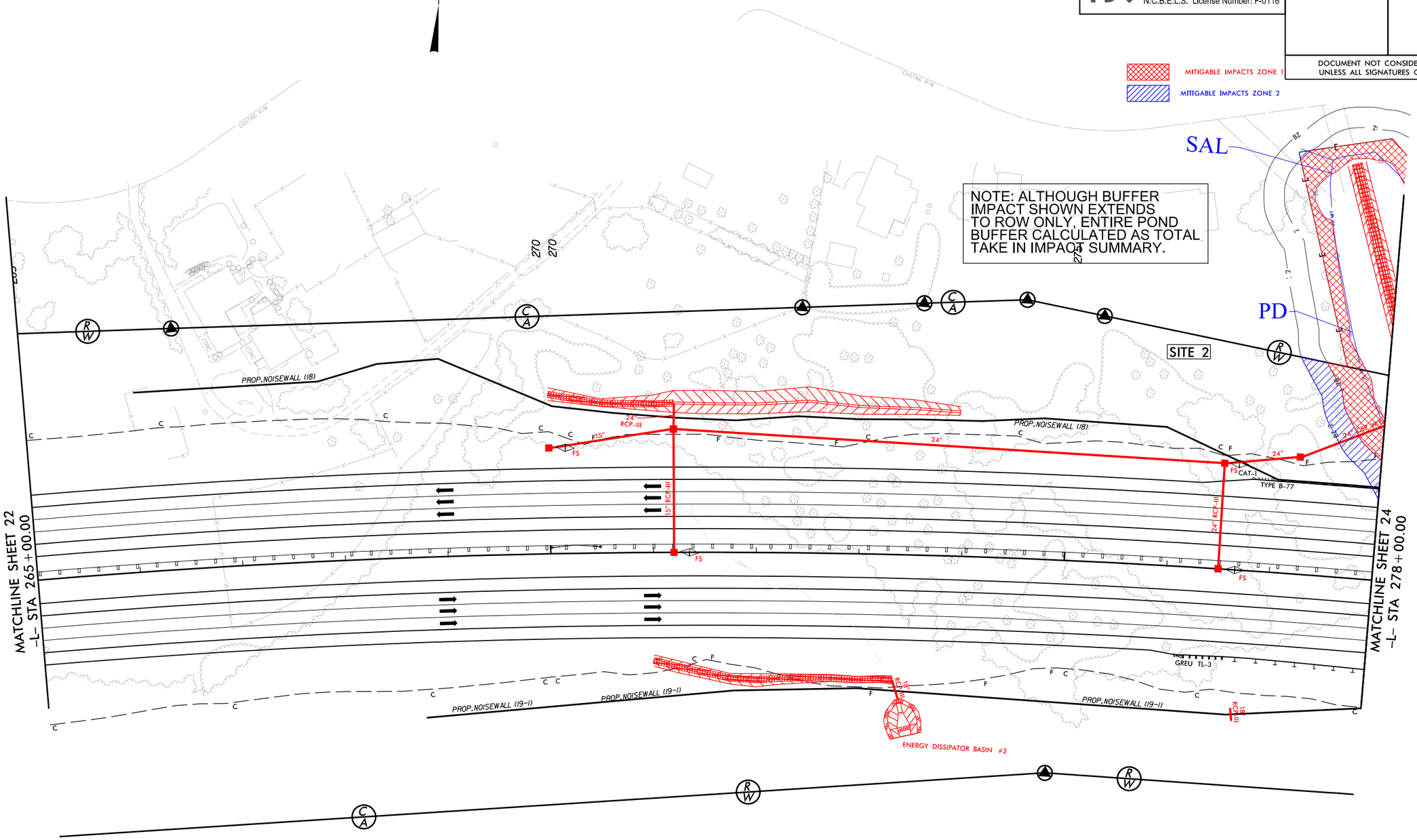
100' 0' 100'
GRAPHIC SCALE

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2



882019
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PROJECT REFERENCE NO.	SHEET NO.
R-2721	24
R-2721B ROADWAY SHEET NO. 7 & 8	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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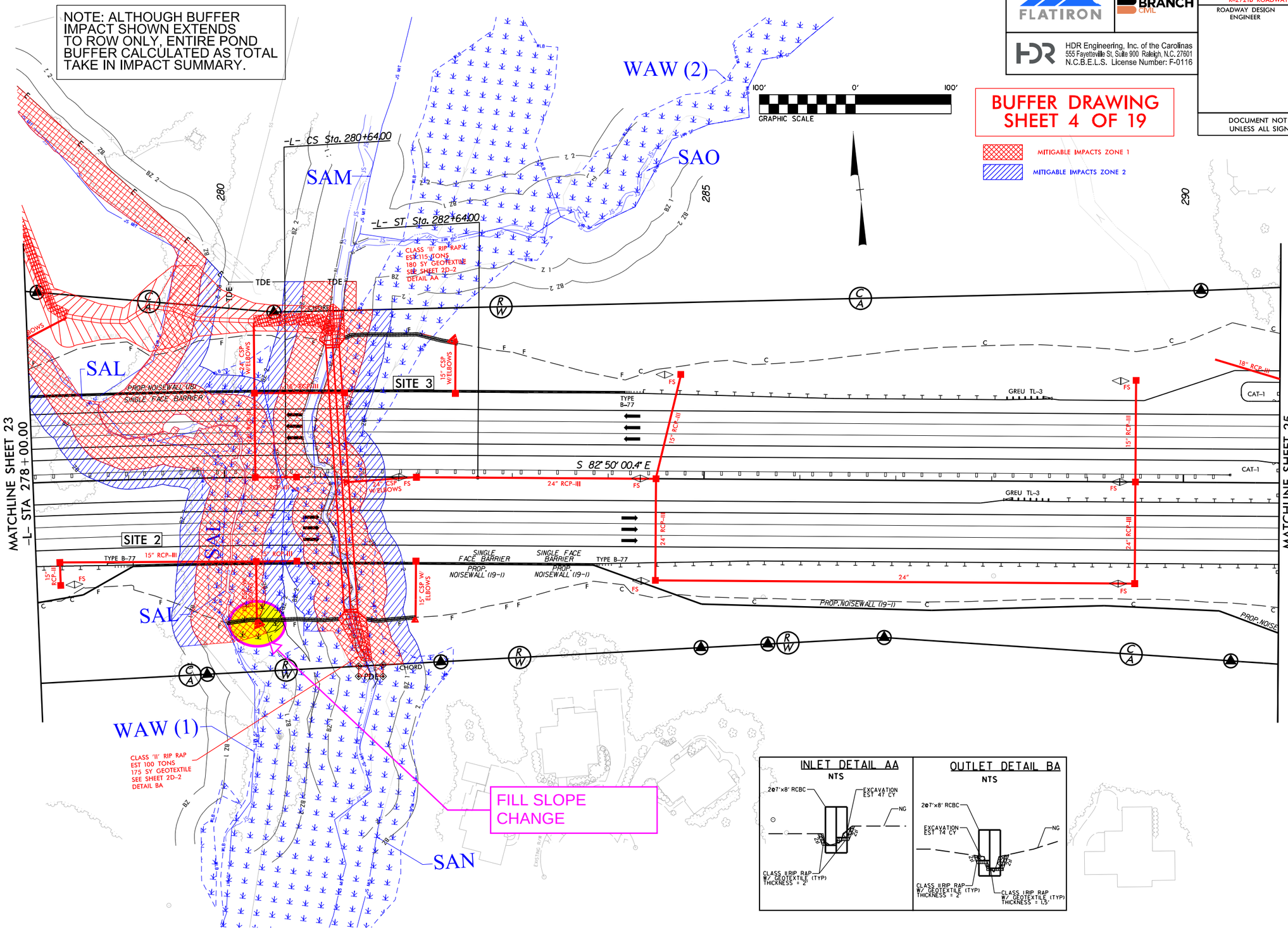
BUFFER DRAWING SHEET 4 OF 19

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2

NOTE: ALTHOUGH BUFFER IMPACT SHOWN EXTENDS TO ROW ONLY, ENTIRE POND BUFFER CALCULATED AS TOTAL TAKE IN IMPACT SUMMARY.



8/8/2019
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51499

PROJECT REFERENCE NO.	SHEET NO.
R-2721	25
R-2721B ROADWAY SHEET NO. 8 & 9	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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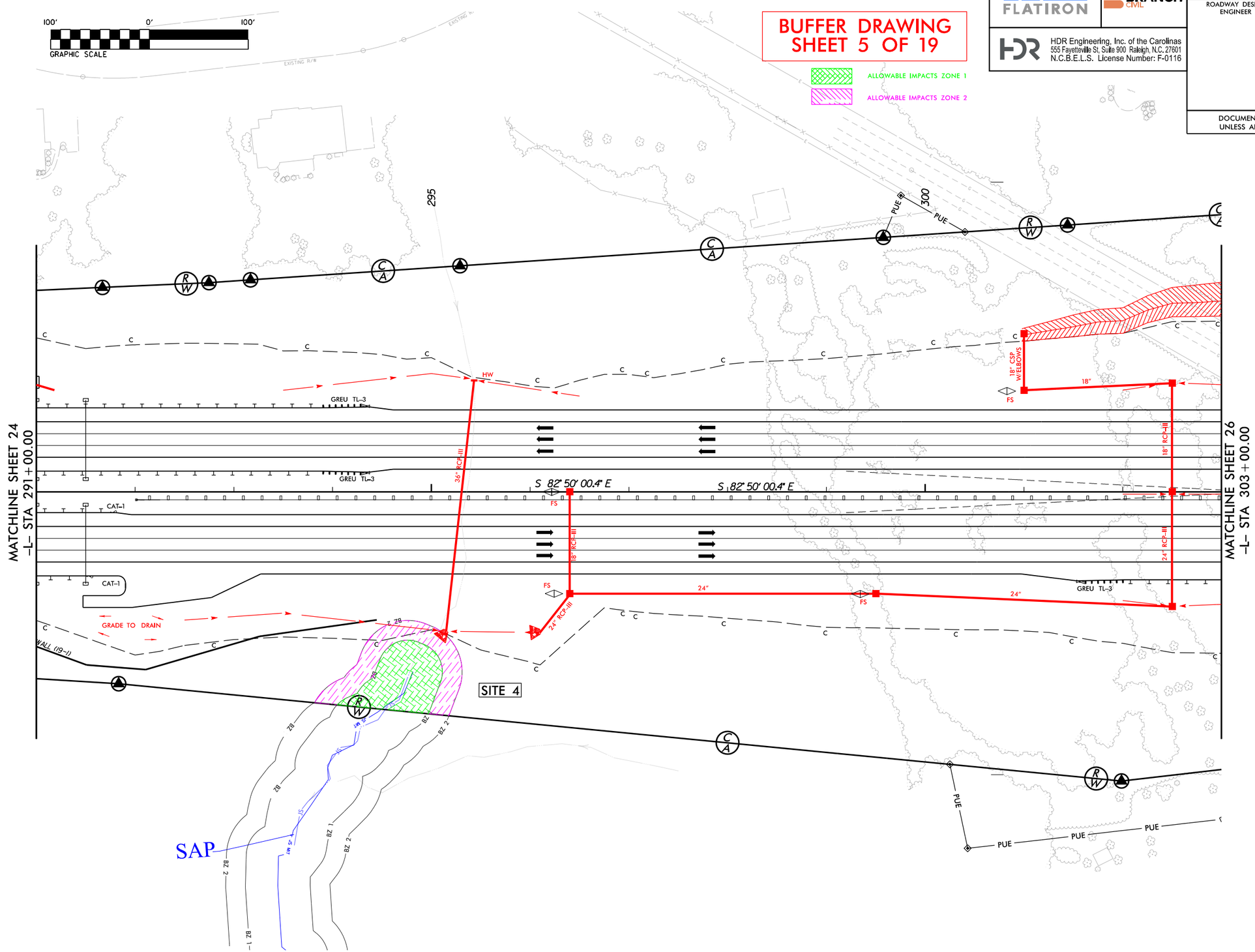
BUFFER DRAWING SHEET 5 OF 19

ALLOWABLE IMPACTS ZONE 1

ALLOWABLE IMPACTS ZONE 2



8/8/2019
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PROJECT REFERENCE NO.	SHEET NO.
R-2721	26
R-2721B ROADWAY SHEET NO. 9 & 10	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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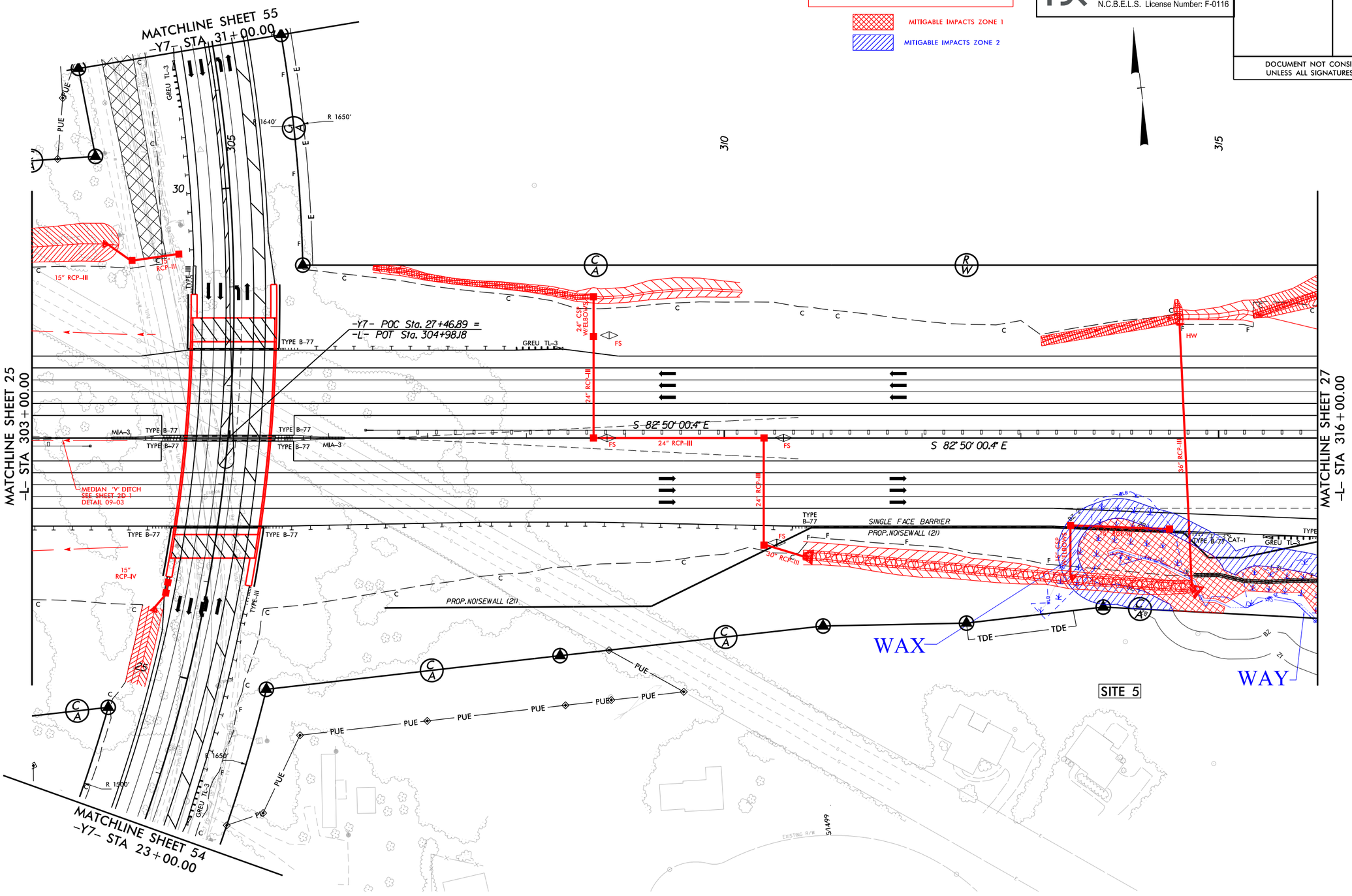
GRAPHIC SCALE 100' 0' 100'

BUFFER DRAWING SHEET 6 OF 19

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2



8/2/2019
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PROJECT REFERENCE NO.	SHEET NO.
R-2721	27
R-2721B ROADWAY SHEET NO. 10 & 11	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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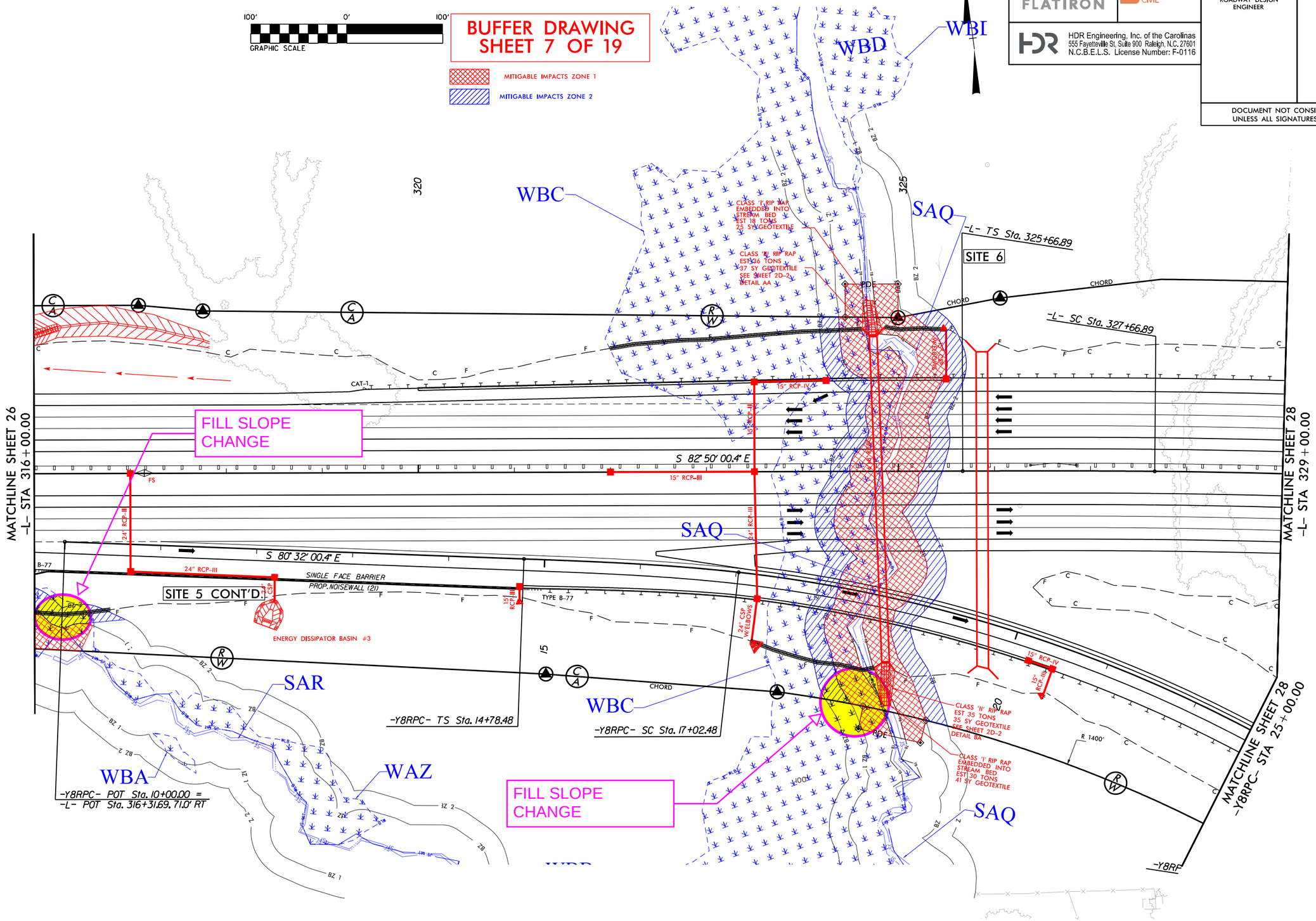
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



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BUFFER DRAWING SHEET 8 OF 19

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2

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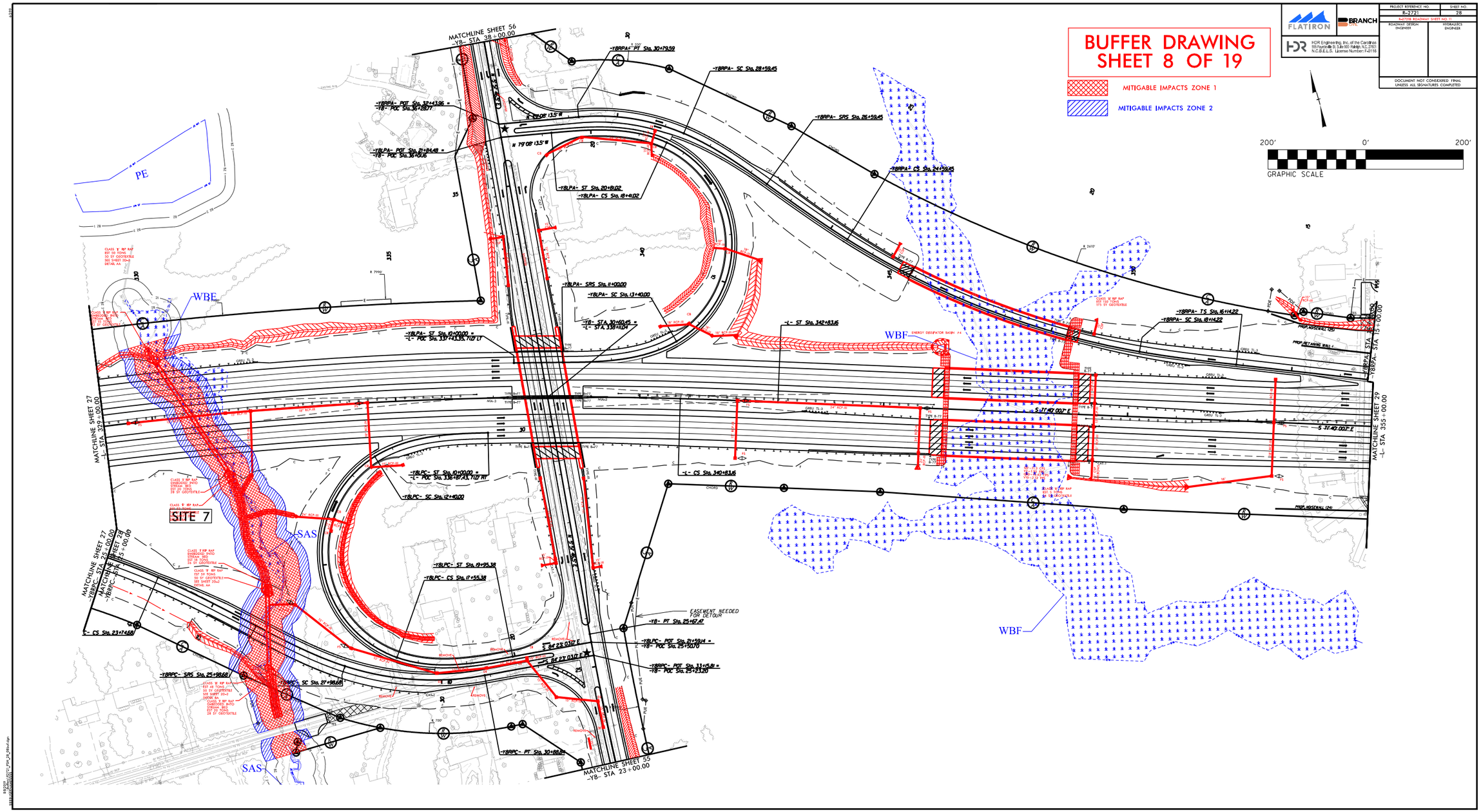
PROJECT REFERENCE NO.	SHEET NO.
R-2721	28
R-2721B ROADWAY SHEET NO. 11	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

200' 0' 200'

GRAPHIC SCALE



PROJECT REFERENCE NO.	SHEET NO.
R-2721	29
R-2721B ROADWAY SHEET NO. 12	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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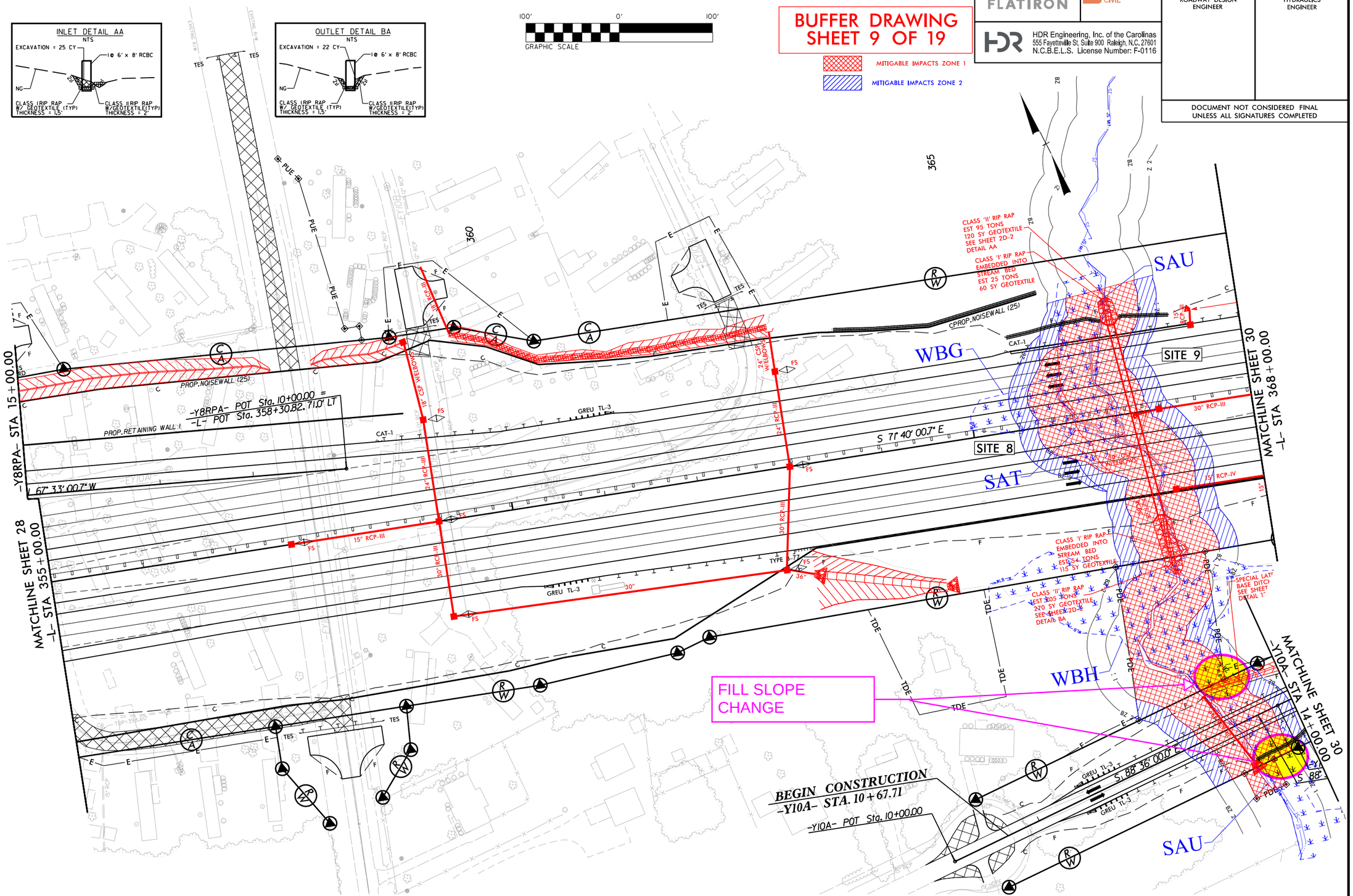
BUFFER DRAWING SHEET 9 OF 19

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2



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BUFFER DRAWING SHEET 10 OF 19

MITIGABLE IMPACTS ZONE 1
MITIGABLE IMPACTS ZONE 2
ALLOWABLE IMPACTS ZONE 2

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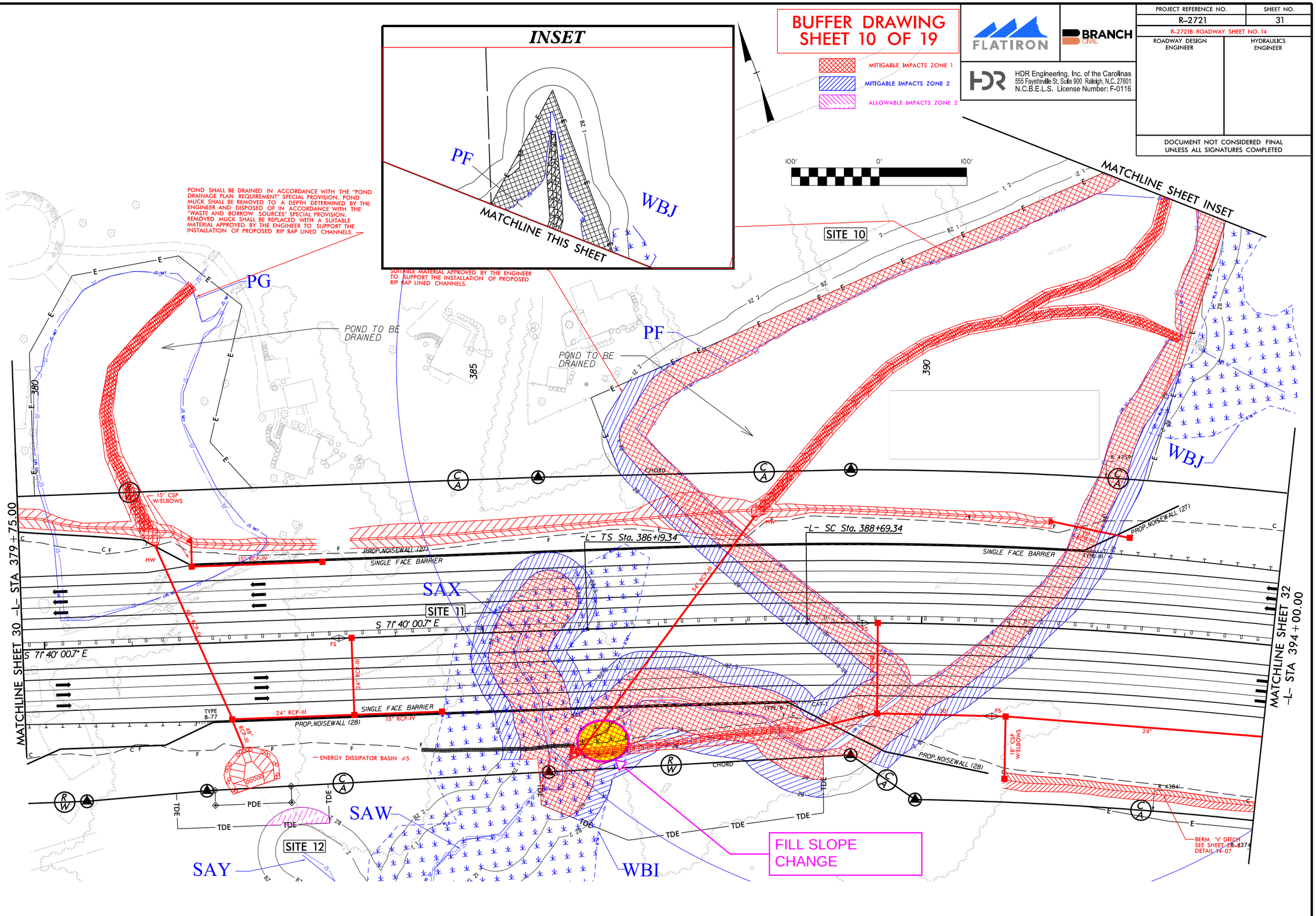
PROJECT REFERENCE NO.	SHEET NO.
R-2721	31
R-2721B ROADWAY SHEET NO. 14	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



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BUFFER DRAWING SHEET 11 OF 19

PROJECT REFERENCE NO.	SHEET NO.
R-2721	33
R-2721B ROADWAY SHEET NO. 16	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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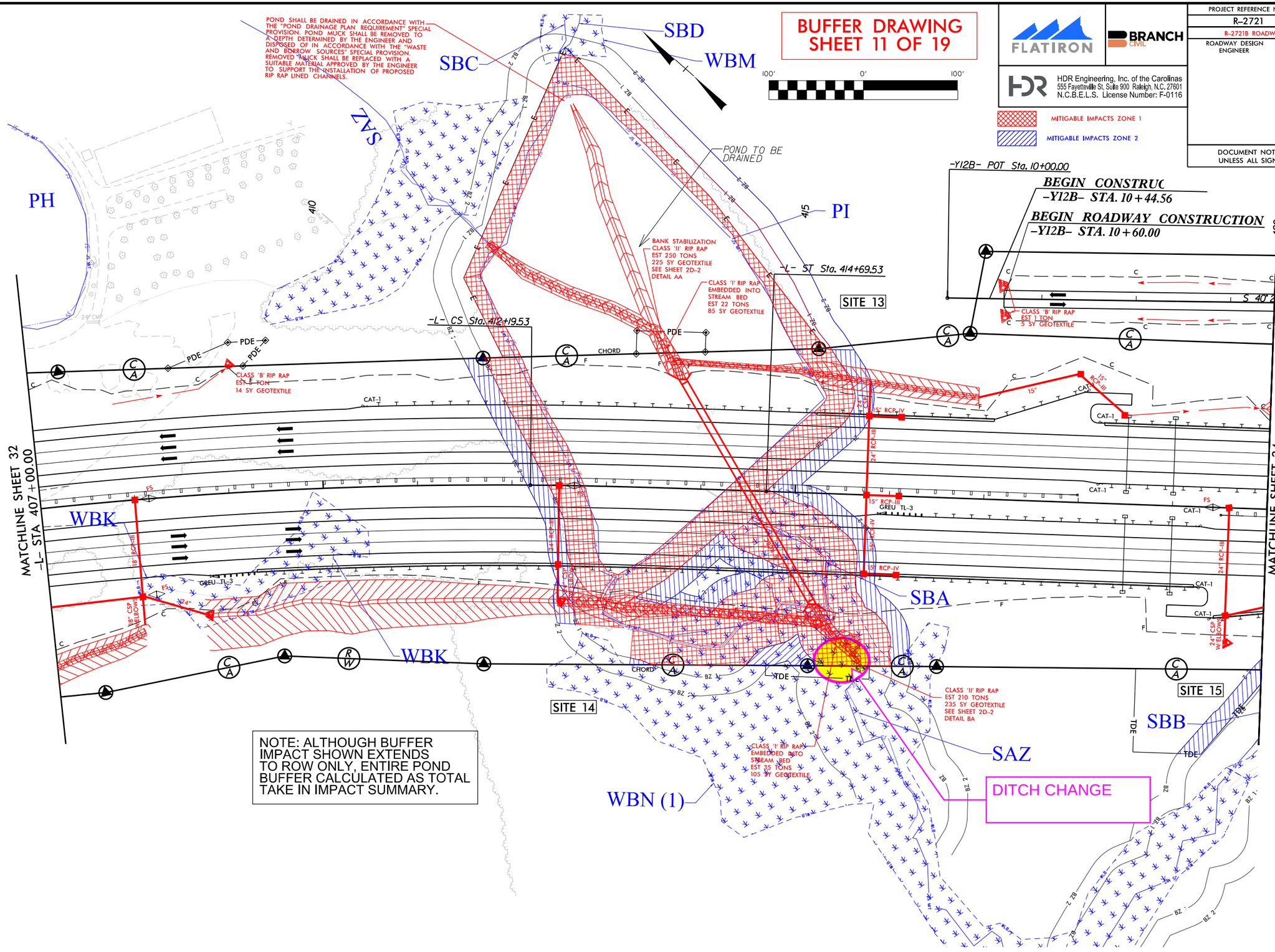
MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2



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8/8/2019
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BUFFER DRAWING SHEET 12 OF 19

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2

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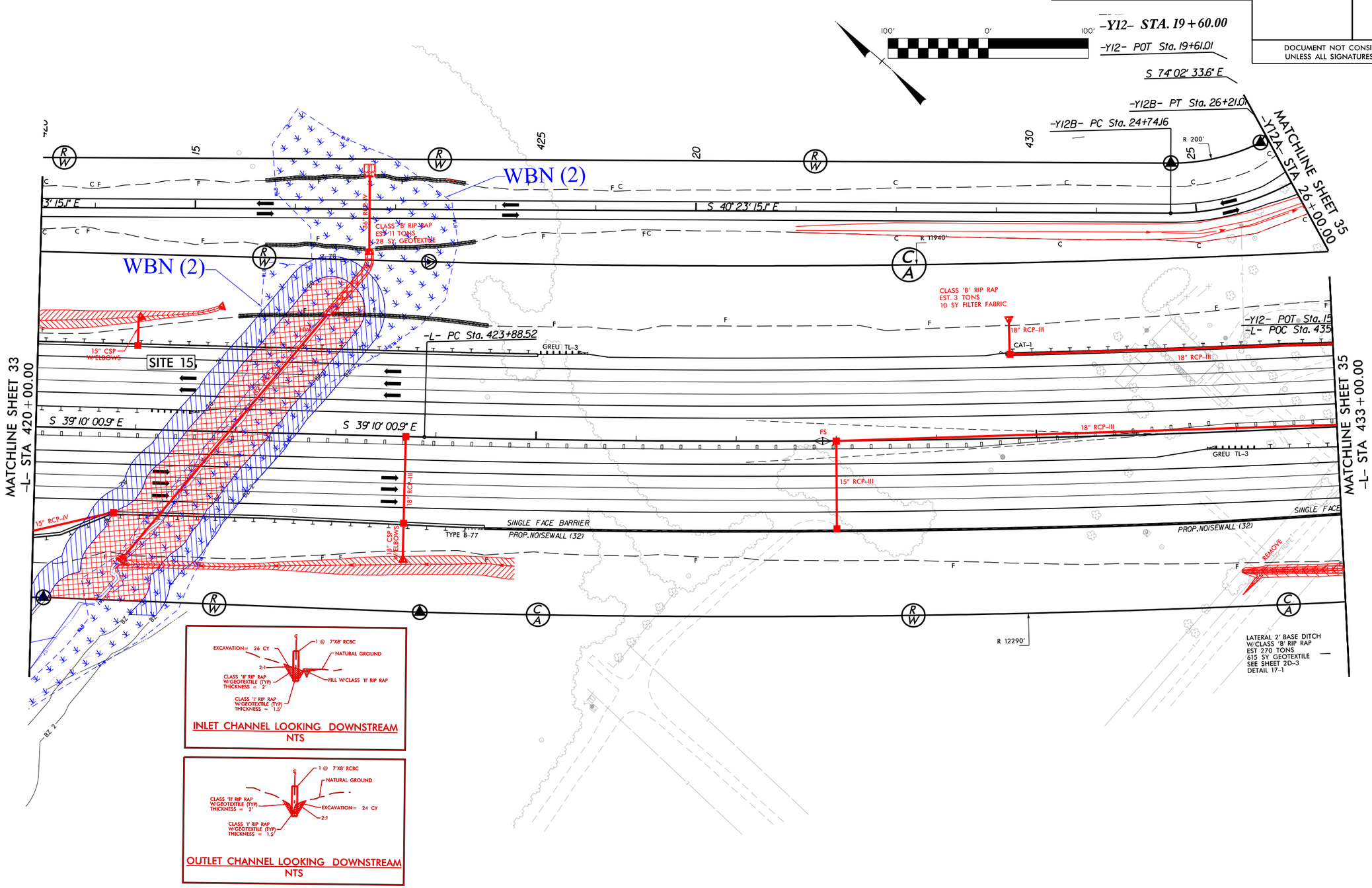
PROJECT REFERENCE NO.	SHEET NO.
R-2721	34
R-2721B ROADWAY SHEET NO. 16 & 17	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



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8/2/2019
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PROJECT REFERENCE NO.	SHEET NO.
R-2721	35
R-2721B ROADWAY SHEET NO. 17 & 18	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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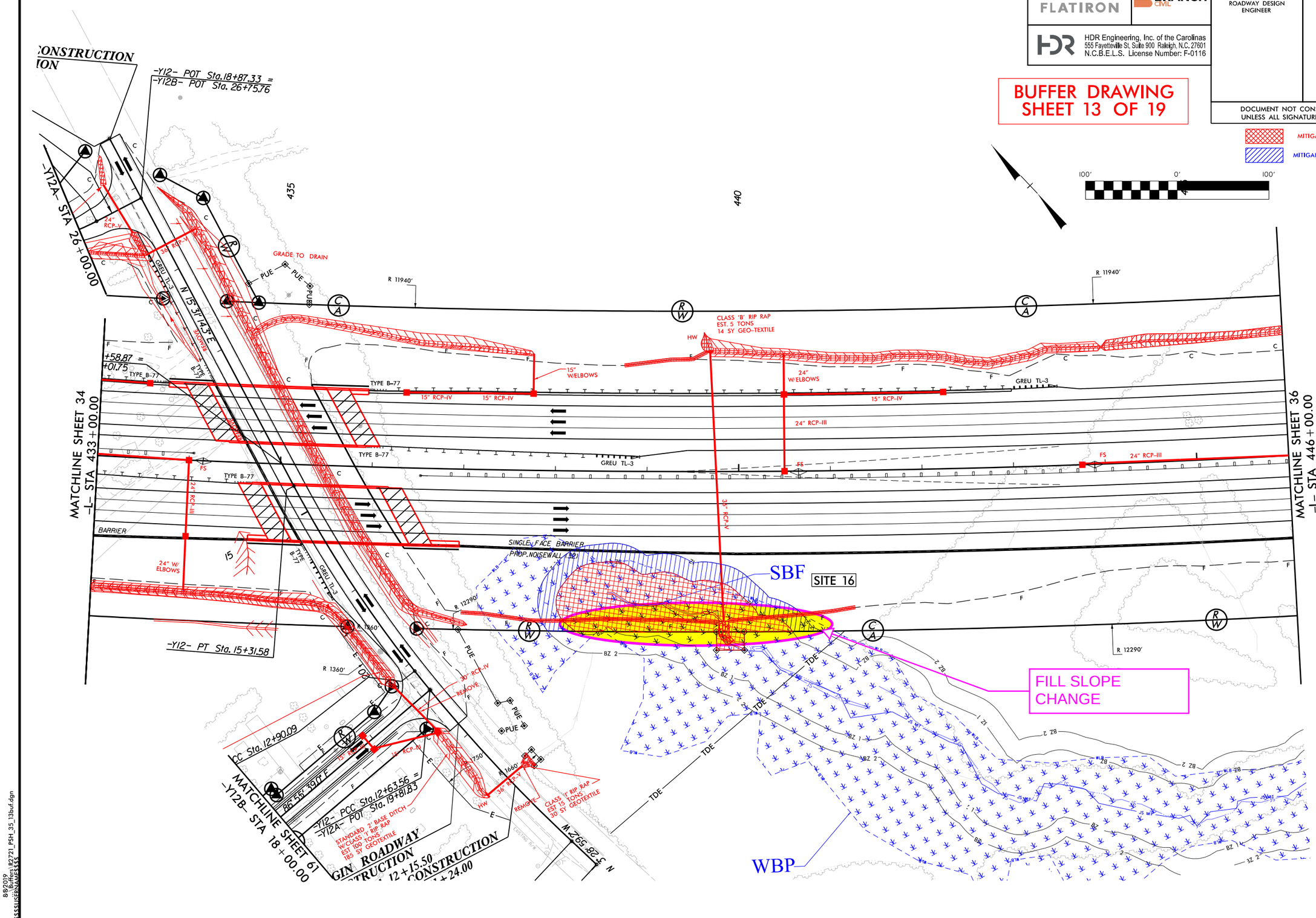
BUFFER DRAWING SHEET 13 OF 19

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2



8/8/2019
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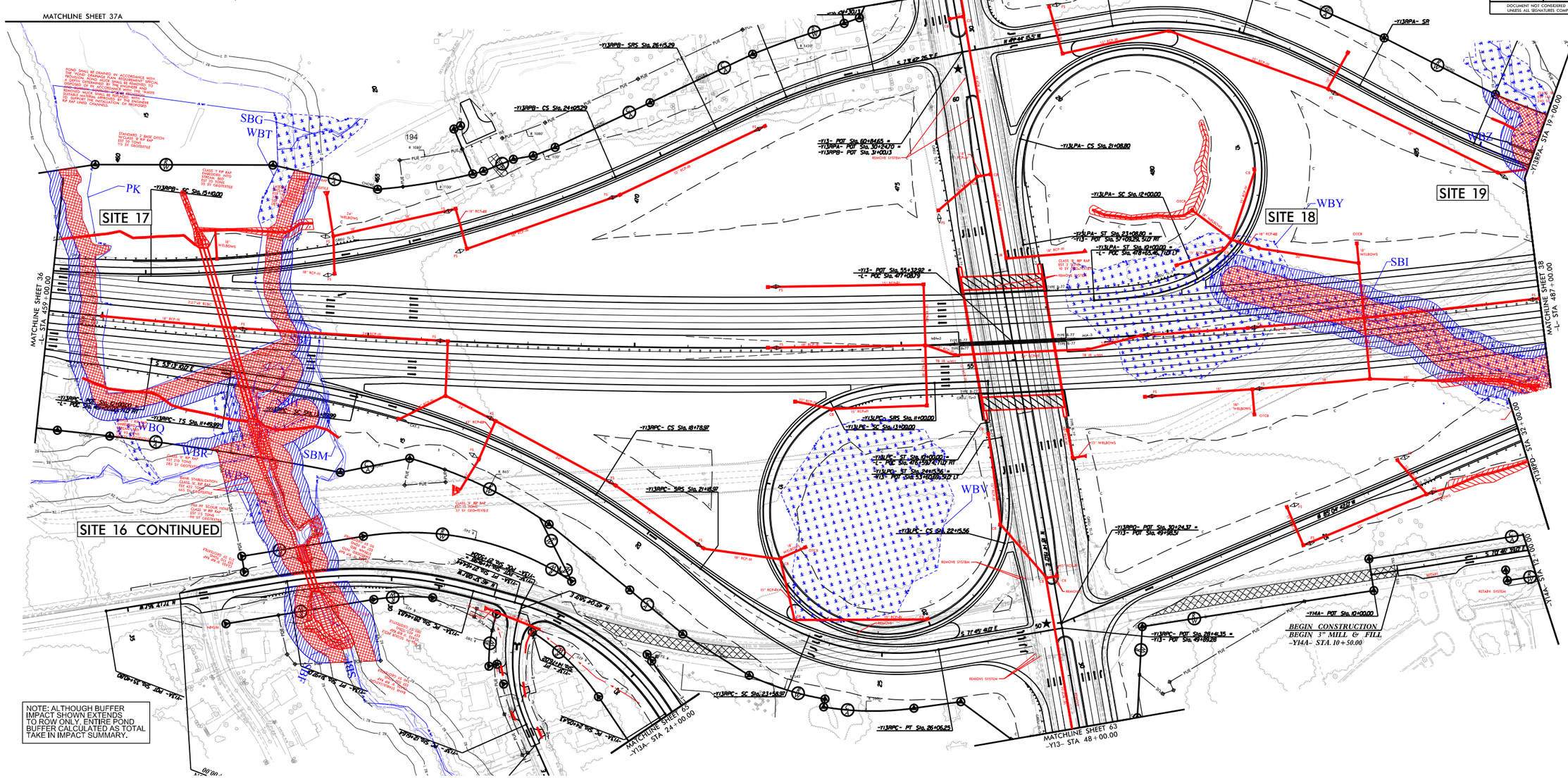
BUFFER DRAWING
SHEET 14 OF 19

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2

200' 0' 200'
GRAPHIC SCALE



NOTE: ALTHOUGH BUFFER IMPACT SHOWN EXTENDS TO ROW ONLY, ENTIRE POND BUFFER CALCULATED AS TOTAL TAKE IN IMPACT SUMMARY.

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PROJECT REFERENCE NO.	SHEET NO.
R-2721	37
R-2715 ROADWAY SHEET NO. 19 & 20	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	SHEET NO.
R-2721	37A
R-2721B ROADWAY SHEET NO. 19	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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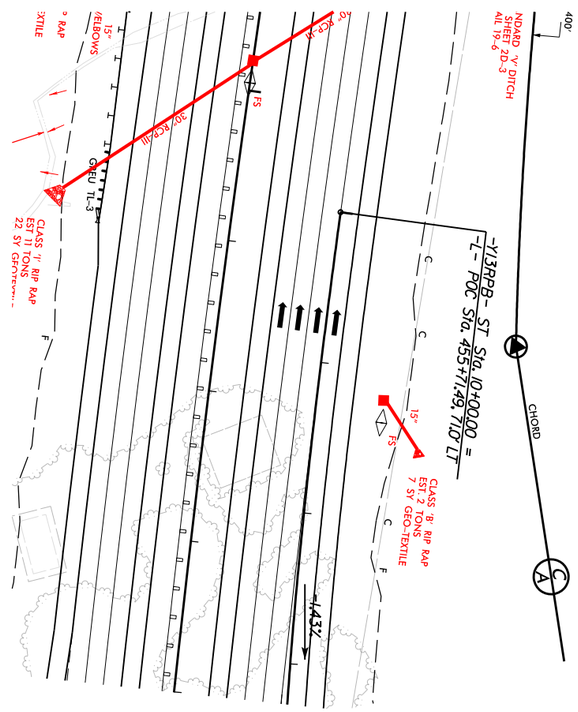
BUFFER DRAWING SHEET 15 OF 19

100' 0' 100'
GRAPHIC SCALE

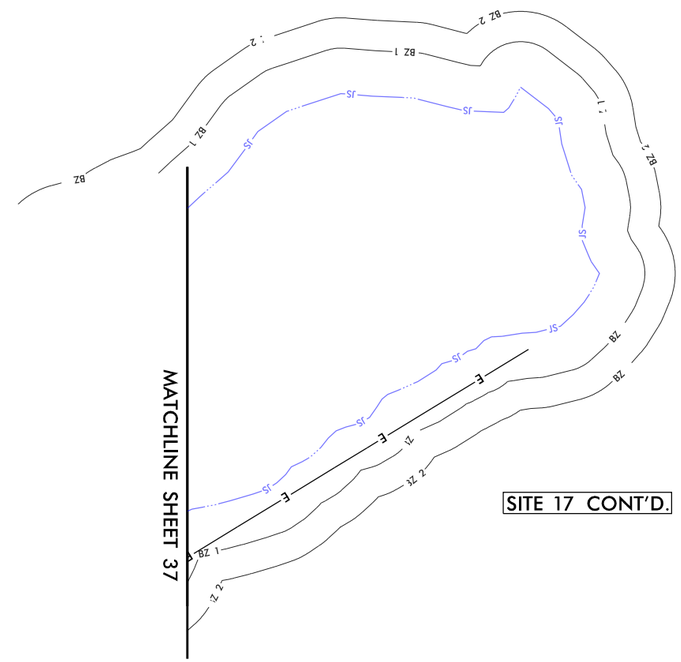
MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2

DENOTES IMPACTS IN SURFACE WATER (POND)



NOTE: ALTHOUGH BUFFER IMPACT SHOWN EXTENDS TO ROW ONLY, ENTIRE POND BUFFER CALCULATED AS TOTAL TAKE IN IMPACT SUMMARY.



8/8/2019
R-2721_PSH_37A_15buf.dgn
$$$$USERNAME$$$$

BUFFER DRAWING SHEET 16 OF 19

MITIGABLE IMPACTS ZONE 1

MITIGABLE IMPACTS ZONE 2

FILL SLOPE CHANGE

PROJECT REFERENCE NO.	SHEET NO.
R-2721	38
R-2721B ROADWAY SHEET NO. 20 & 21	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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N.C.B.E.L.S. License Number: F-0116

-Y13RPA- STA 19+00.00

-Y13RPA- SC Sta. 12+40.00

-L- POC Sta. 495+93.25, 71.0' LT

MATCHLINE SHEET 37
-L- STA 487+00.00

MATCHLINE SHEET 39
-L- STA 499+00.00

-Y13RPD- STA 32+00.00

-Y13RPD- SC Sta. 14+10.00

-Y13RPD- SRS Sta. 10+50.00

-Y13RPD- ST Sta. 10+00.00 =
-L- POC Sta. 496+95.81, 71.0' RT

-Y13RPD- ST Sta. 18+62.53

-Y13RPD- CS Sta. 16+88.53

-Y14A- STA 13+00.00

-Y14A- PC Sta. 15+28.47

-Y14A- PT Sta. 17+52.54

-Y14- POT Sta. 9+00.00

SITE 19 CONT'D.

SITE 20

SITE 18 CONT'D.

SITE 19 CONT'D.

WCB

SBK

SBJ

SBI

SBJ

CLASS 'I' RIP RAP EMBEDDED INTO STREAM BED EST 65 TONS 120 SY GEOTEXTILE

CLASS 'B' RIP RAP EST. 5 TONS 14 SY GEO-TEXTILE

CLASS 'II' RIP RAP EST 95 TONS 128 SY GEOTEXTILE

CLASS 'I' RIP RAP EMBEDDED INTO STREAM BED EST 37 TONS 82 SY GEOTEXTILE

CLASS 'B' RIP RAP EST. 2 TONS 7 SY GEO-TEXTILE

CLASS 'II' RIP RAP EST 60 TONS 80 SY GEOTEXTILE

CLASS 'I' RIP RAP EMBEDDED INTO STREAM BED EST 25 TONS 55 SY GEOTEXTILE

CLASS 'I' RIP RAP EMBEDDED INTO STREAM BED EST 10 TONS 64 SY GEOTEXTILE

CLASS 'II' RIP RAP EST 95 TONS 110 SY GEOTEXTILE

CLASS 'II' RIP RAP EST 38 TONS 125 SY GEOTEXTILE

CLASS 'II' RIP RAP EST 45 TONS 80 SY GEOTEXTILE

CLASS 'I' RIP RAP EMBEDDED INTO STREAM BED EST 31 TONS 65 SY GEOTEXTILE

CLASS 'B' RIP RAP EST. 2 TONS 7 SY GEO-TEXTILE

REMOVE

24" W/ELBOWS

18" W/ELBOWS

15" W/ELBOWS

24" RCP-III

18" RCP-IV

15" RCP-III

1@6'x8' RCBC

RETAIN

RETAIN SYSTEM

S 76° 44' 56.0" E

N 21° 35' 31.2" E

N 23° 30' 40.7" E

N 19° 13' 06.5" E

BEGIN

BEGIN

-Y14- ST

100' 0' 100'

8/2/2019
R-2721B_R2721_PSH_38_16buf.dgn
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-2721	64
R-2721B ROADWAY SHEET NO. 33	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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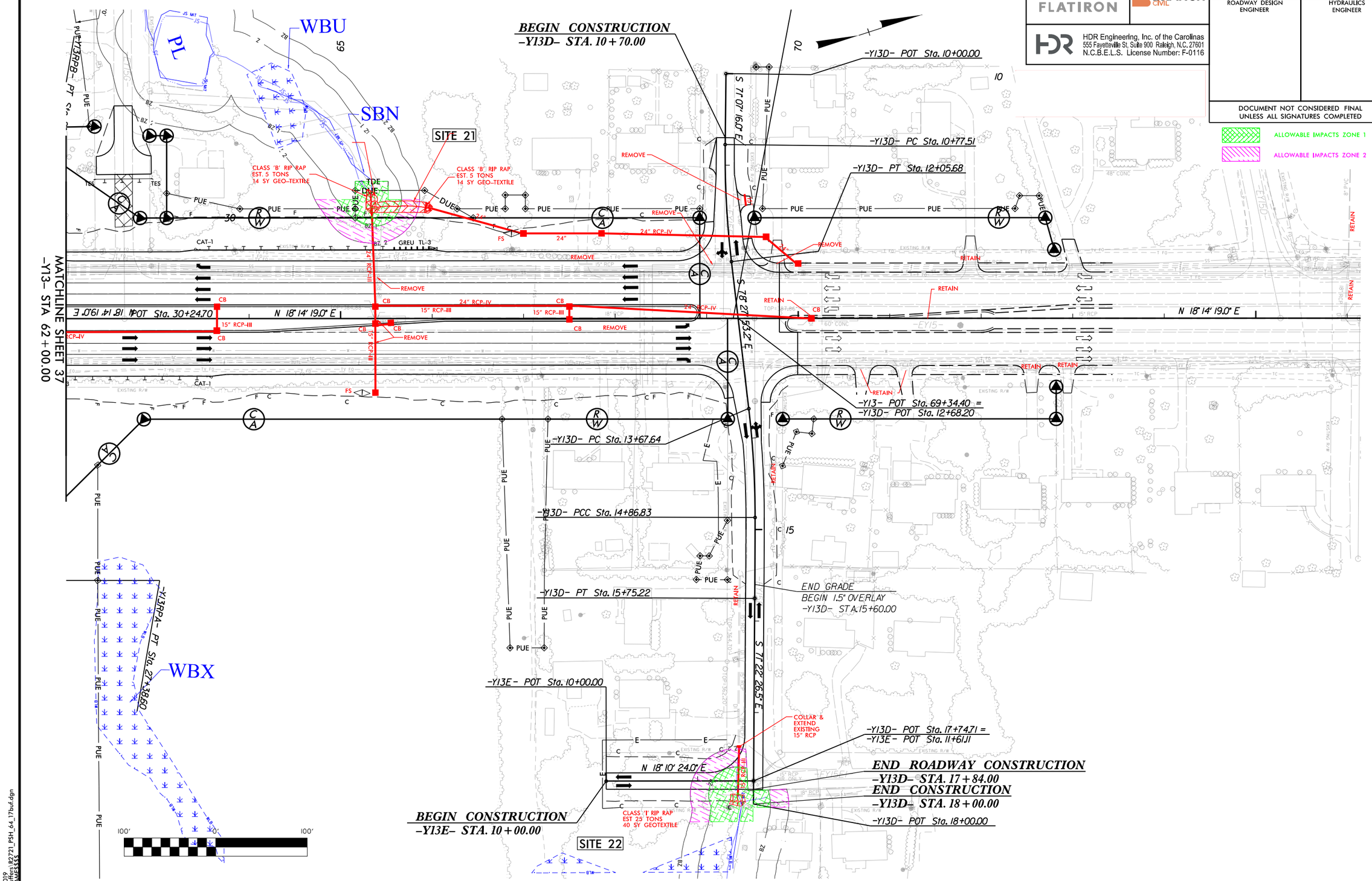
N.C.B.E.L.S. License Number: F-0116

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ALLOWABLE IMPACTS ZONE 1

ALLOWABLE IMPACTS ZONE 2



8/2/2019
R:\Hydro\R2721_PSH_64_17buf.dgn
$$$$USERNAME$$$$

51499

RIPARIAN BUFFER IMPACTS SUMMARY

			IMPACT									BUFFER REPLACEMENT	
			TYPE			ALLOWABLE			MITIGABLE				
SITE NO.	STRUCTURE SIZE / TYPE	STATION (FROM/TO)	ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft^2)	ZONE 2 (ft^2)	TOTAL (ft^2)	ZONE 1 (ft^2)	ZONE 2 (ft^2)	TOTAL (ft^2)	ZONE 1 (ft^2)	ZONE 2 (ft^2)
1	3@8'X10' RCBC	244+00 - 248+00 -L-	X					0	25550	16098	41648		
2**	ROADWAY FILL	277+00 - 280+50 -L-	X					0	53612	31141	84753		
3	2@7'X8' RCBC	280+50-L-/282+00-L-	X					0	27871	13501	41372		
4	NOISEWALL & E.C. ACCESS, FENCE	294+00 - 295+00 -L-	X			4514	4637	9151			0		
5	30" RCP	313+00 - 318+00 -L-			X			0	12760	9950	22710		
6	1@6'X8' RCBC	324+00 - 326+00 -L-	X					0	32648	18451	51099		
7	1@6'X8' RCBC (TWO)	329+00 - 333+00 -L-, 28+00 - 30+00 -Y8RPC-	X					0	60417	37018	97435		
8	ROADWAY FILL	365+50-L-/366+00-L-	X					0	4317	3633	7950		
9	1@6'X8' RCBC, 66" RCP	366+00-L-/367+50-L-	X					0	43026	16583	59609		
10**	48" RCP	384+50 - 393+00 -L-	X					0	92463	58490	150953		
11	ROADWAY FILL	384+50-L-/386+50-L-	X					0	12732	9284	22016		
12	EASEMENT	382+00-L-/383+00-L-	X			0	1033	1033			0		
13**	1@7'X8' RCBC	411+00 - 416+00 -L-	X					0	59098	34901	93999		
14	ROADWAY FILL	412+00 - 415+00 -L-			X			0	12570	3371	15941		
15	42" RCP	420+00-L-/422+00-L-	X					0	25536	20063	45599		
16	30" RCP, 2@7'X7' RCBC	438+00-L-/30+00-Y13A-	X					0	44644	26800	71444		
17	2@7'X8' RCBC	459+00-L-/464+00-L-	X					0	99039	61848	160887		
18	48" RCP	481+00-L-/491+00-L-			X			0	67075	44679	111754		
19	2@6'X8' RCBC, 2@7'X7' RCBC	486+00-L-/493+00-L-	X					0	90601	44578	135179		
20	1@ RCBC	493+00-L-/496+00-L-	X					0	45963	25860	71823		
21	24" RCP	65+00 - 66+00 -Y13-	X			2129	2577	4706			0		
22	15" RCP	10+90 - 11+60 -Y13B-	X			2720	2485	5205			0		
TOTAL:						9363	10732	20095	809922	476250	1286172	0	0

**Site includes calculated impacts to entire pond buffers outside ROW

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

WAKE COUNTY
PROJECT: TIP R-2721B

8/7/2019

Rev. SEP 2016

Rev. May 2006

WETLANDS IN BUFFER IMPACTS SUMMARY

			WETLANDS IN BUFFERS	
SITE NO.	STATION (FROM/TO)		ZONE 1 (ft^2)	ZONE 2 (ft^2)
1	244+00 - 248+00 -L-		0	2148
2	277+00 - 280+50 -L-		12145	3987
3	280+50-L-/282+00-L-		15225	5267
4	294+00 - 295+00 -L-		0	0
5	313+00 - 318+00 -L-		5244	3677
6	324+00 - 326+00 -L-		12811	8240
7	329+00 - 333+00 -L-, 28+00 - 30+00 -Y8RPC-		18916	3794
8	365+50-L-/366+00-L-		2518	862
9	366+00-L-/367+50-L-		18201	2248
10	384+50 - 393+00 -L-		8611	2996
11	384+50-L-/386+50-L-		12073	6870
12	382+00-L-/383+00-L-		0	0
13	411+00 - 416+00 -L-		11560	2642
14	412+00 - 415+00 -L-		8228	2196
15	420+00-L-/422+00-L-		17377	10182
16	438+00-L-/30+00-Y13A-		14093	5154
17	459+00-L-/464+00-L-		2771	1828
18	481+00-L-/491+00-L-		42132	16140
# 19	486+00-L-/493+00-L-		17540	3825
20	493+00-L-/496+00-L-		3649	1742
21	65+00 - 66+00 -Y13-		0	0
22	10+90 - 11+60 -Y13B-		0	0
TOTAL:			223094	83798

N.C. DEPT. OF TRANSPORTATION
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DATE 08/07/2019
SHEET 19 OF 19

Rev. Jan 2009