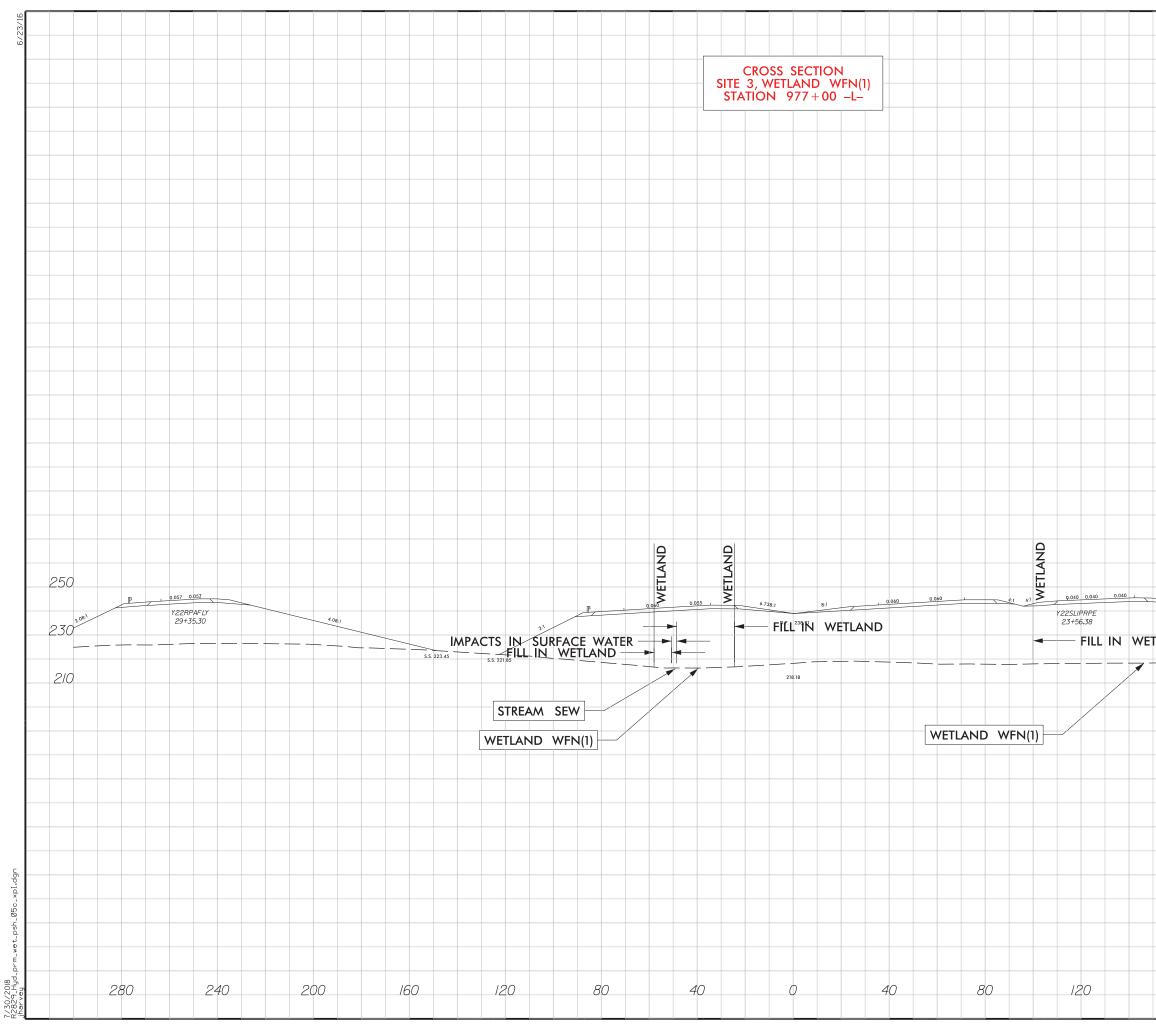
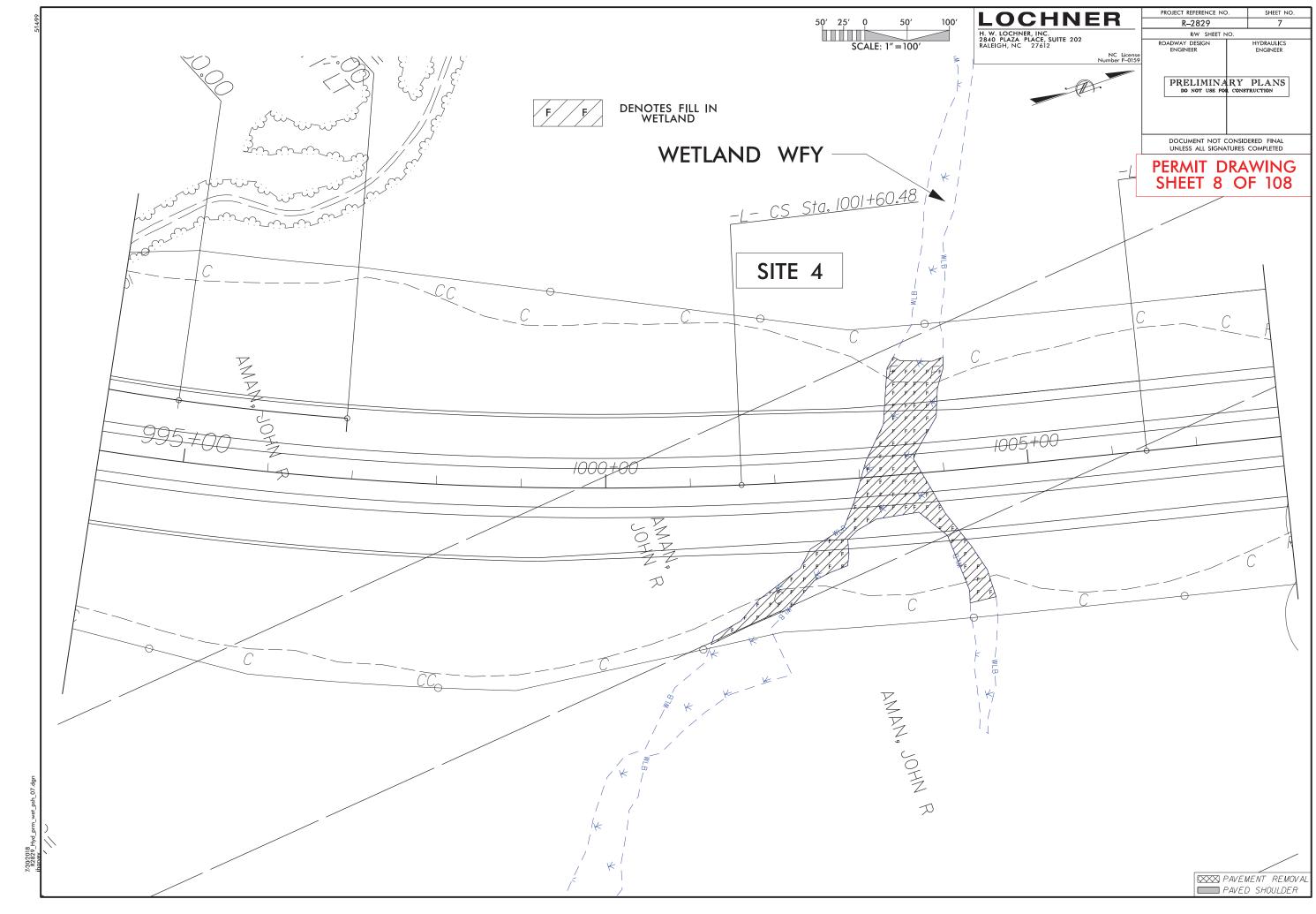
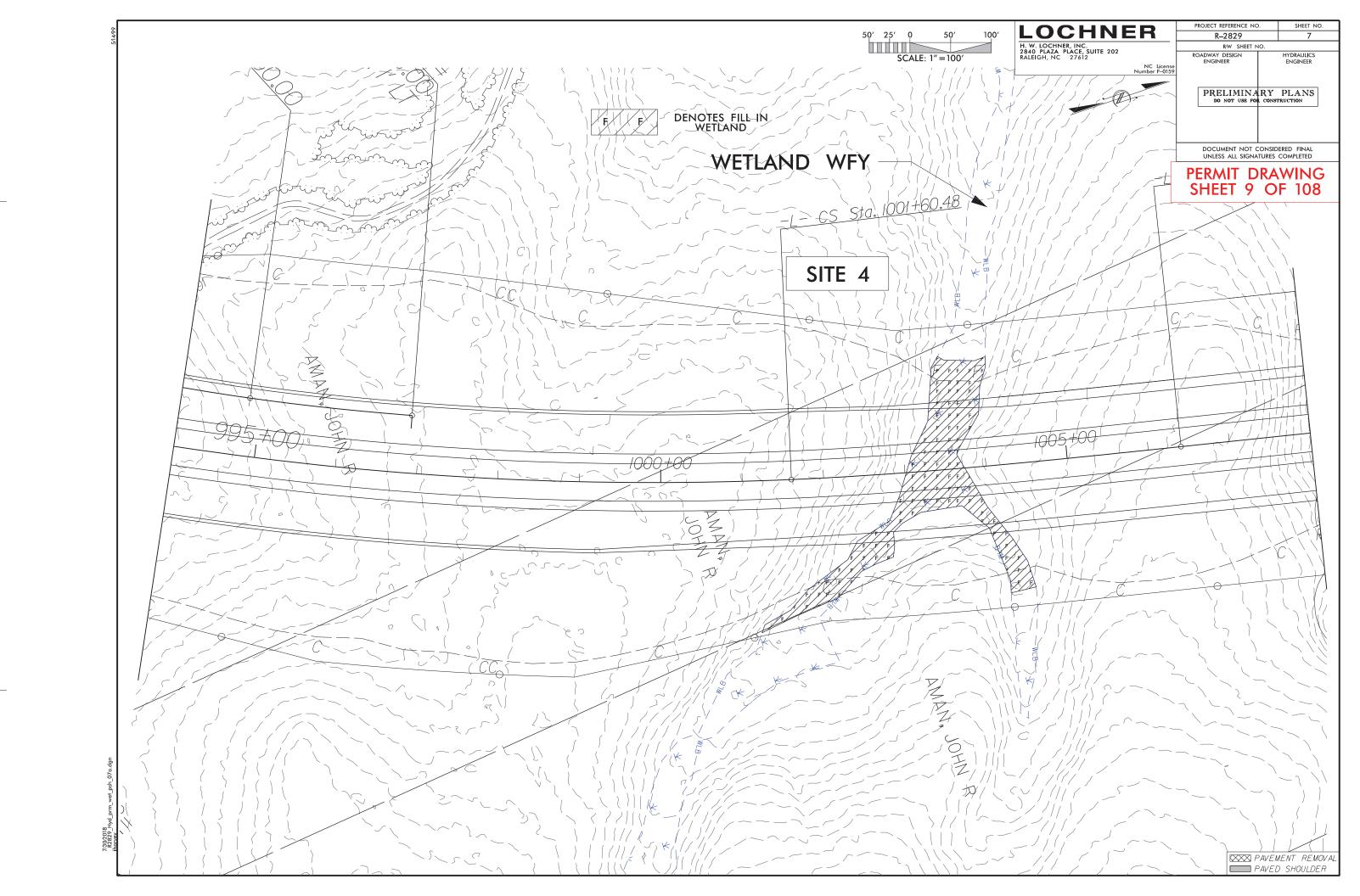


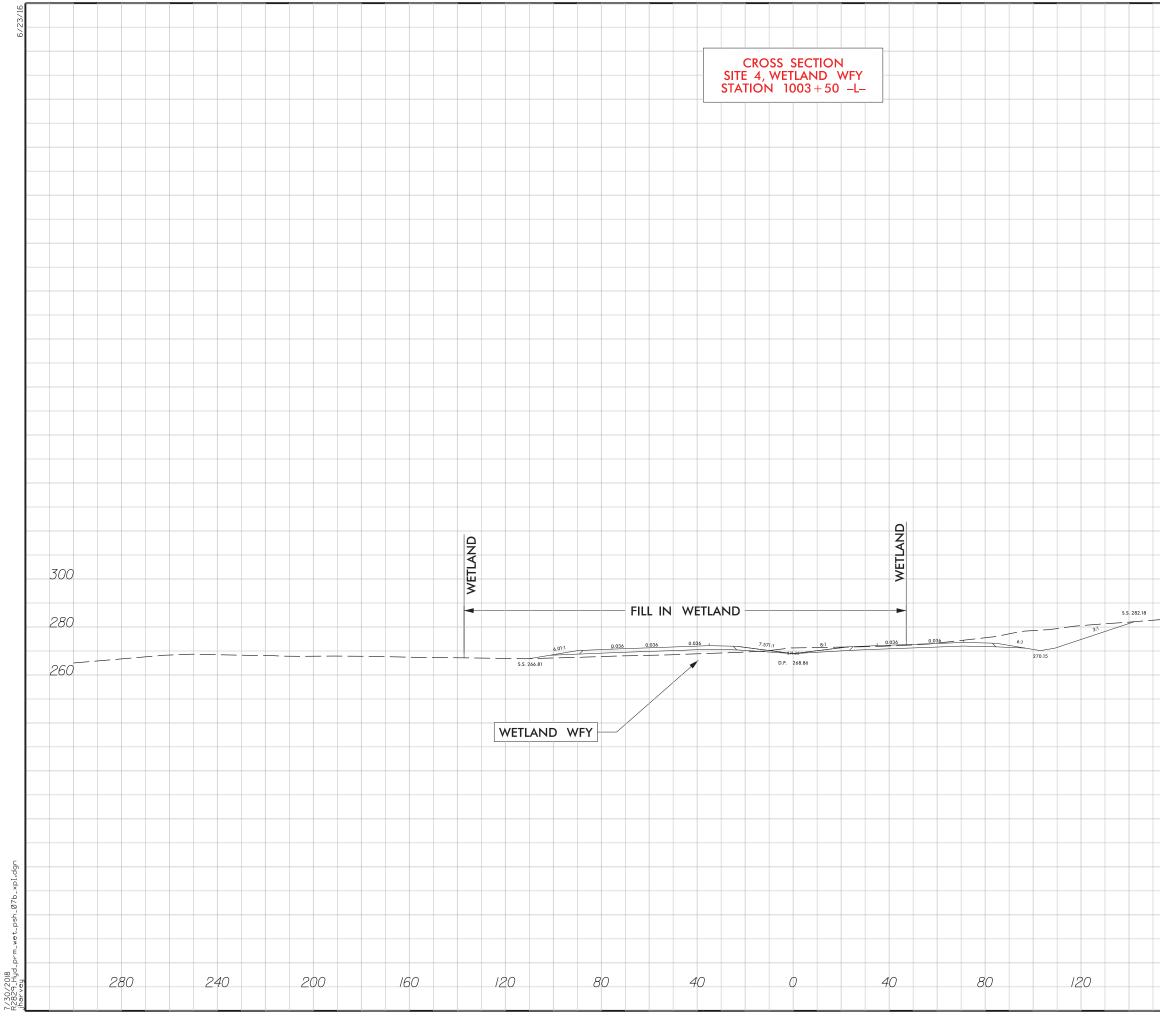
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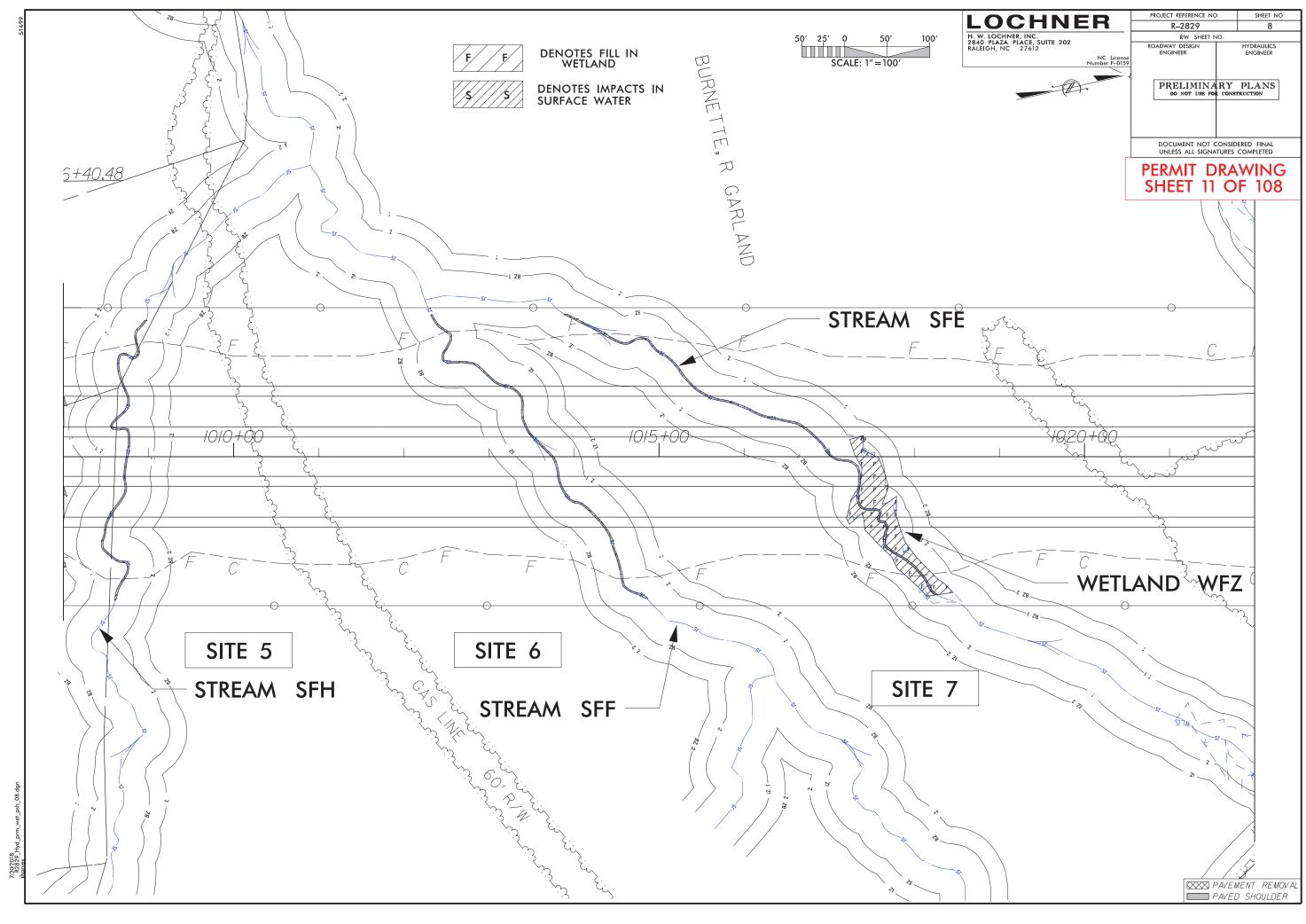
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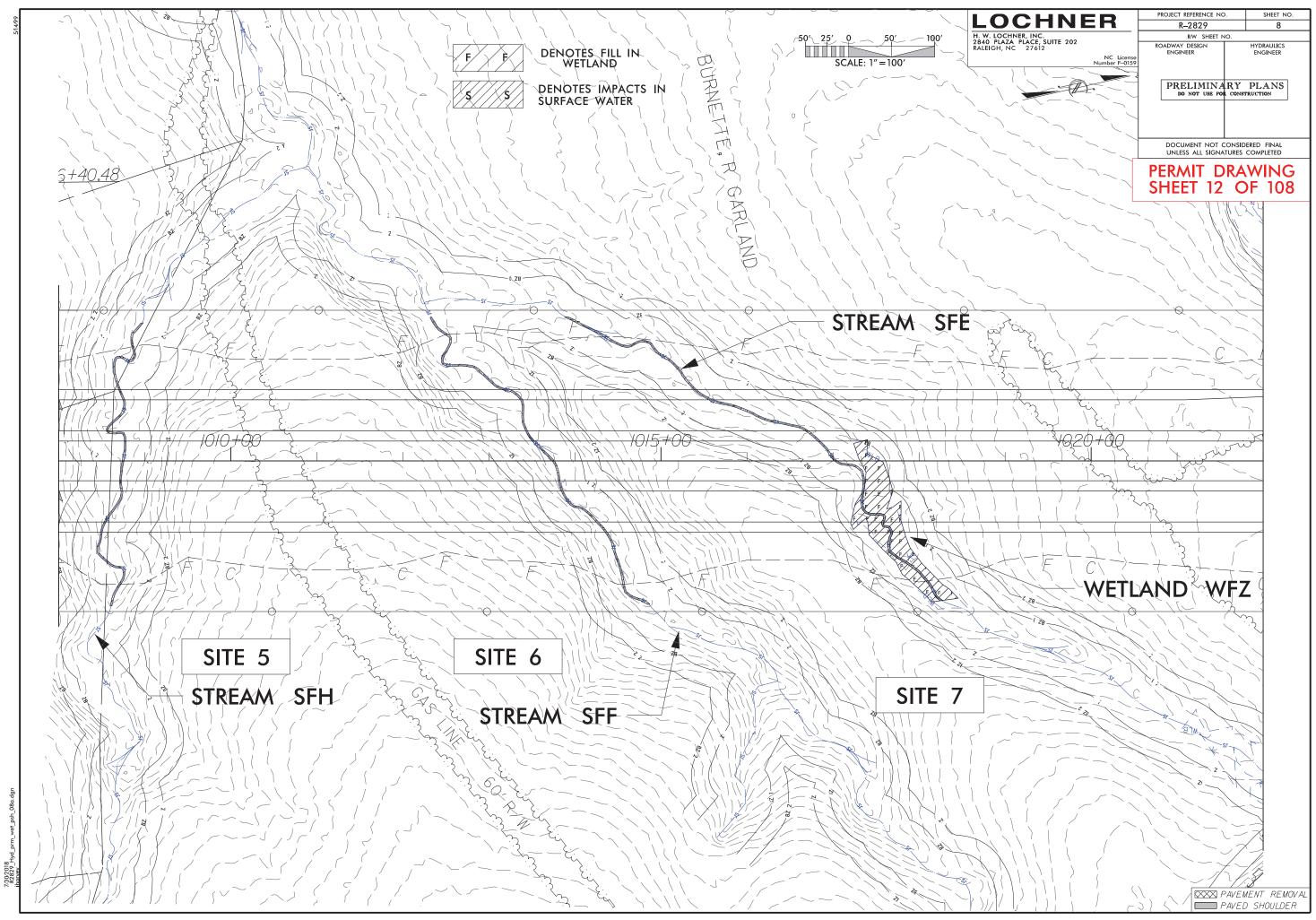


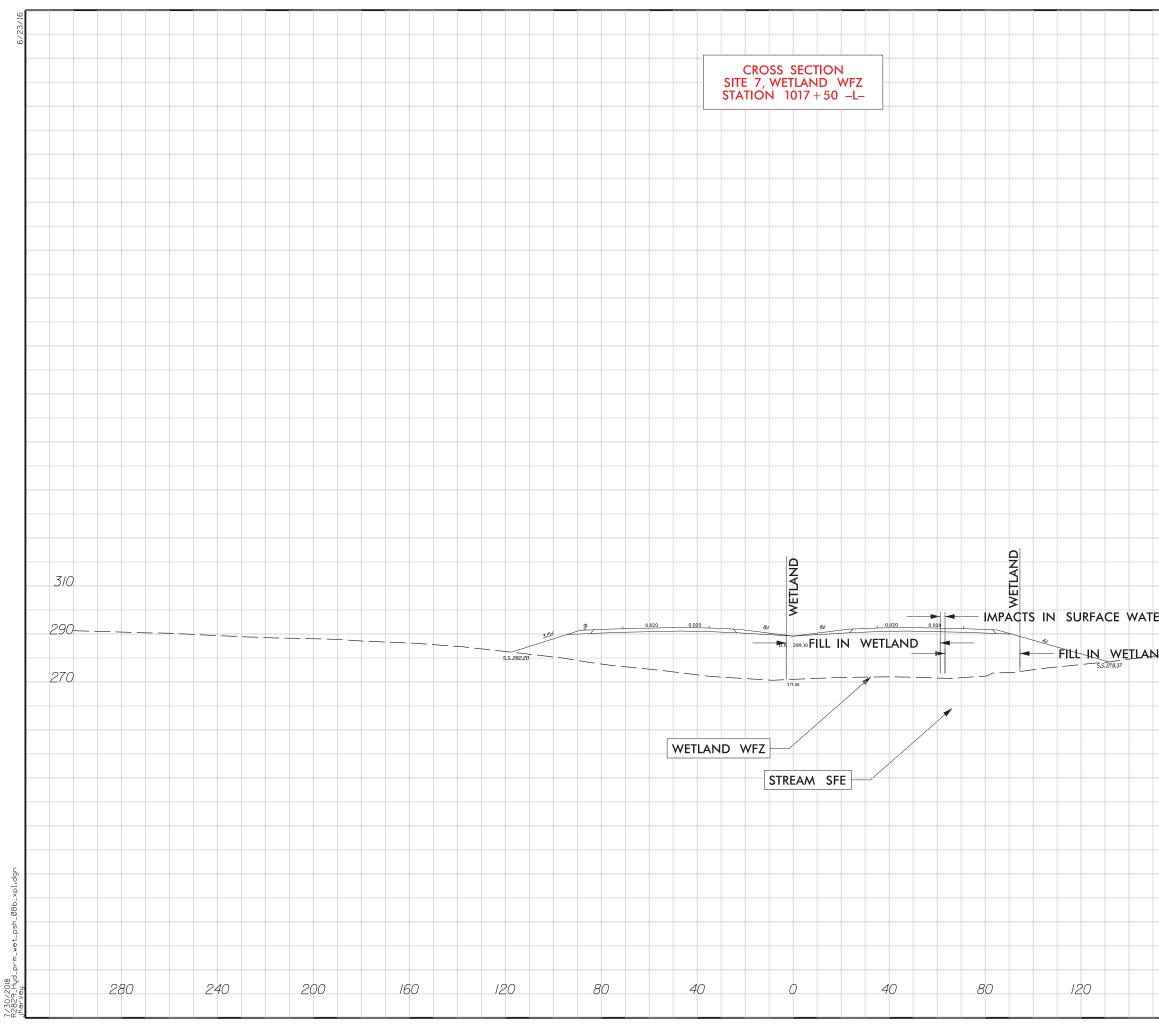




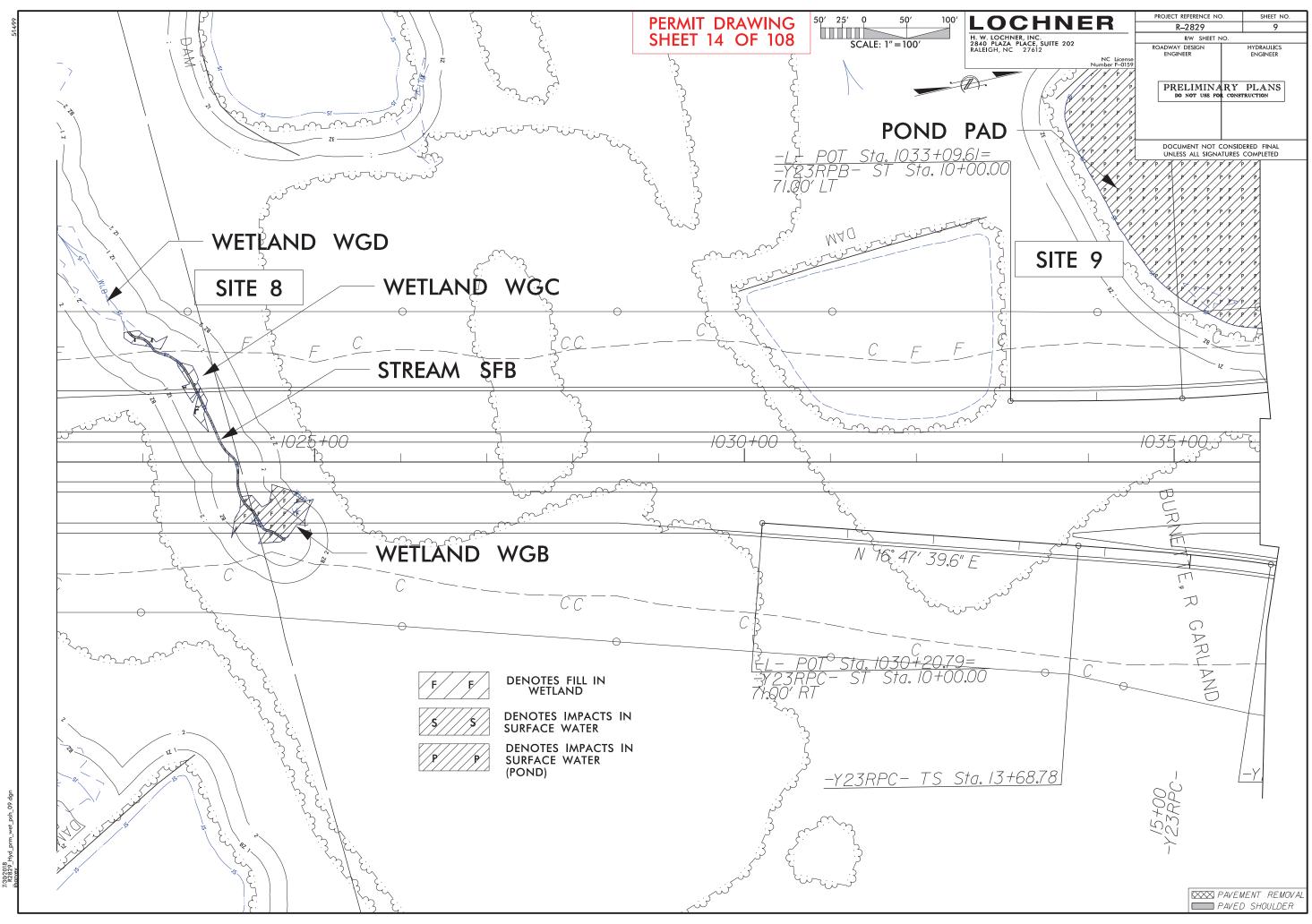
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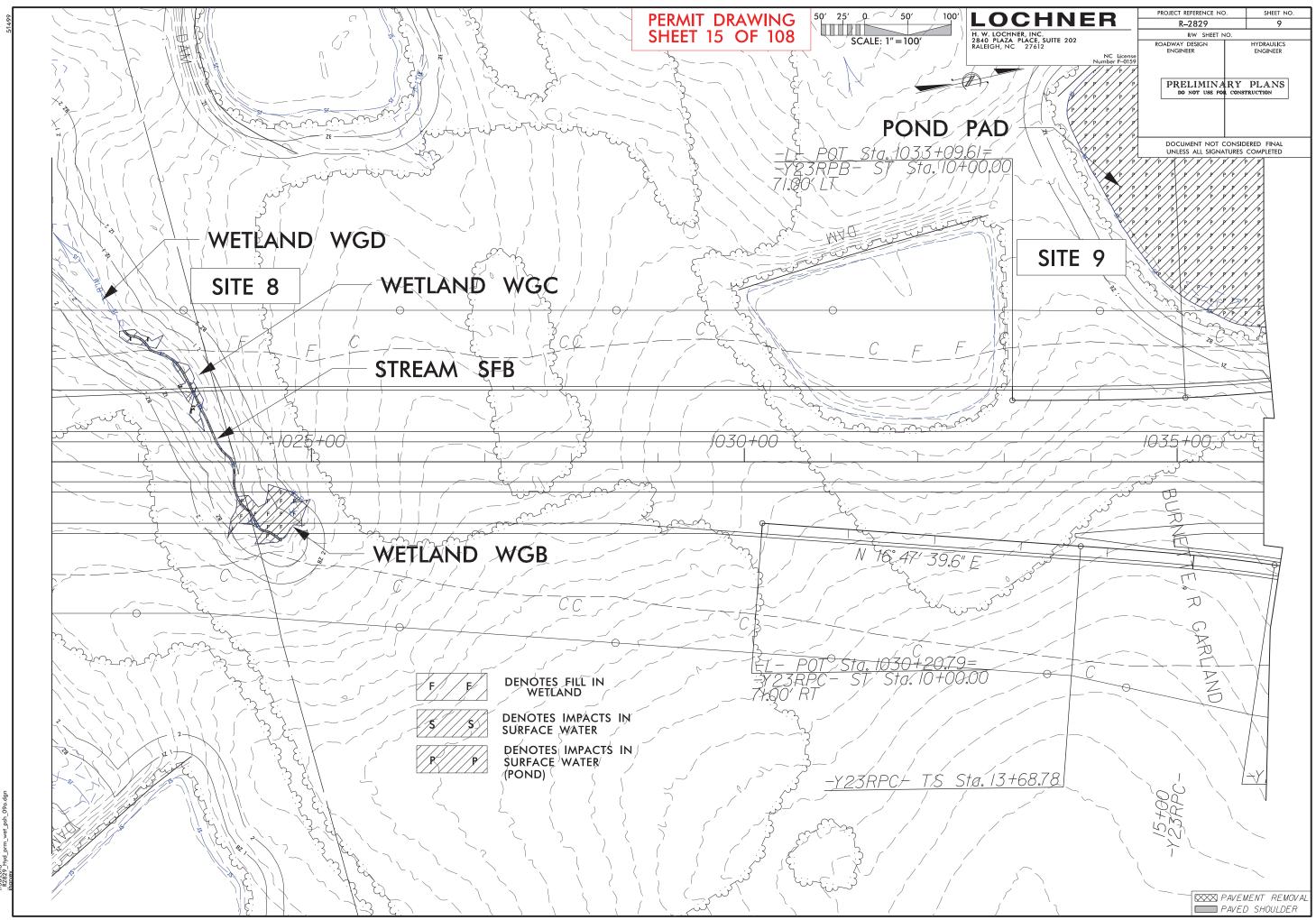




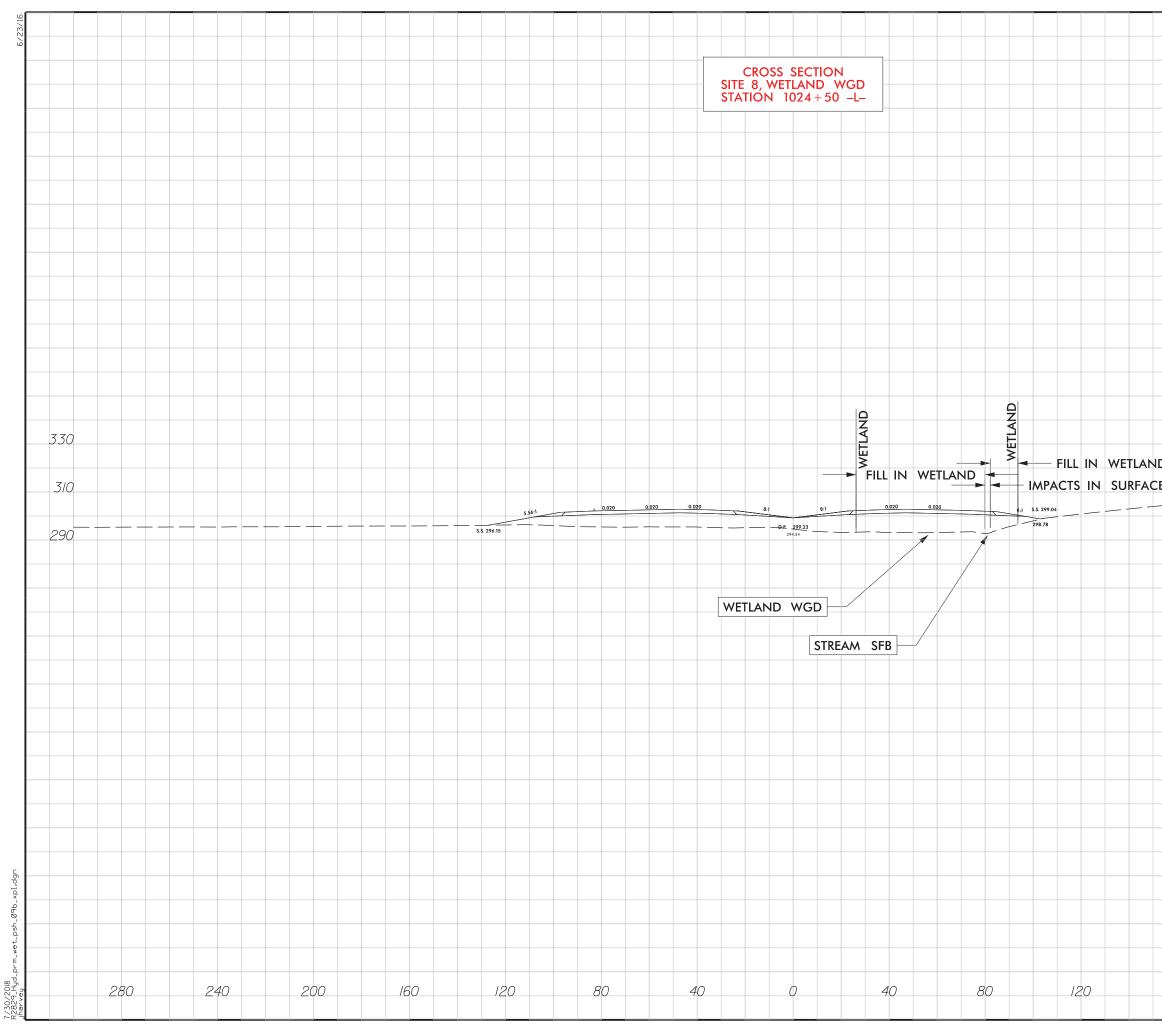


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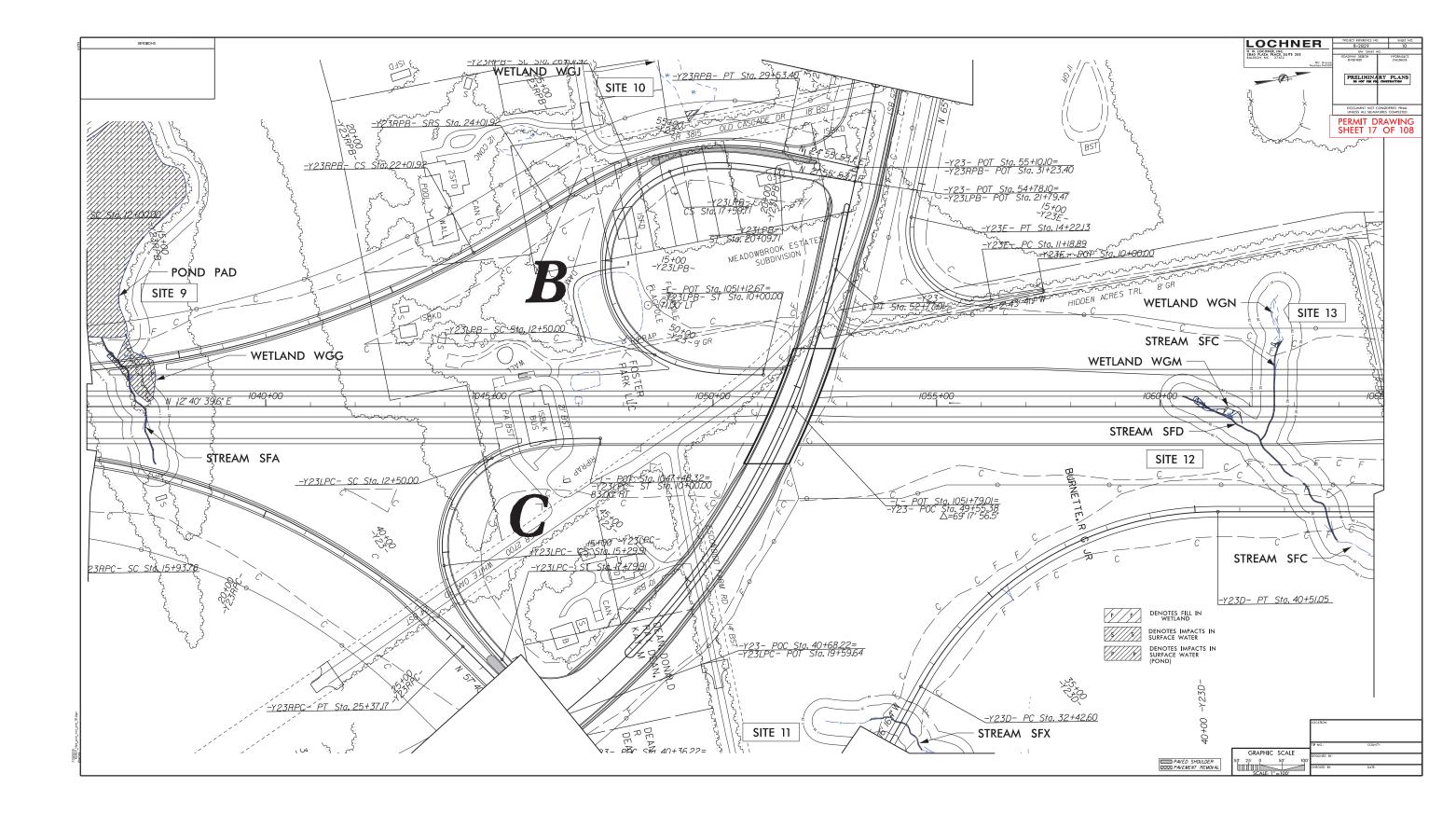


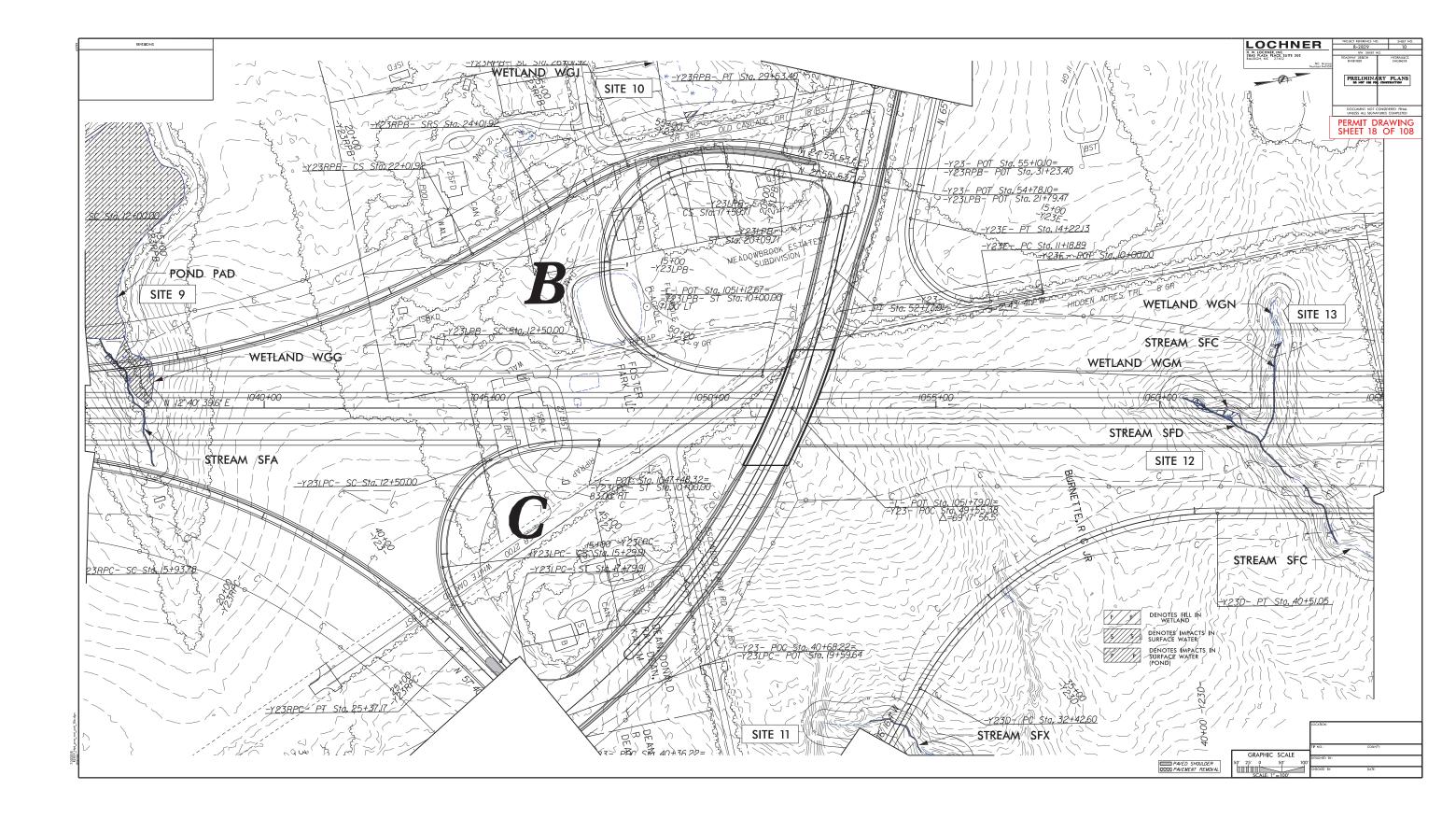


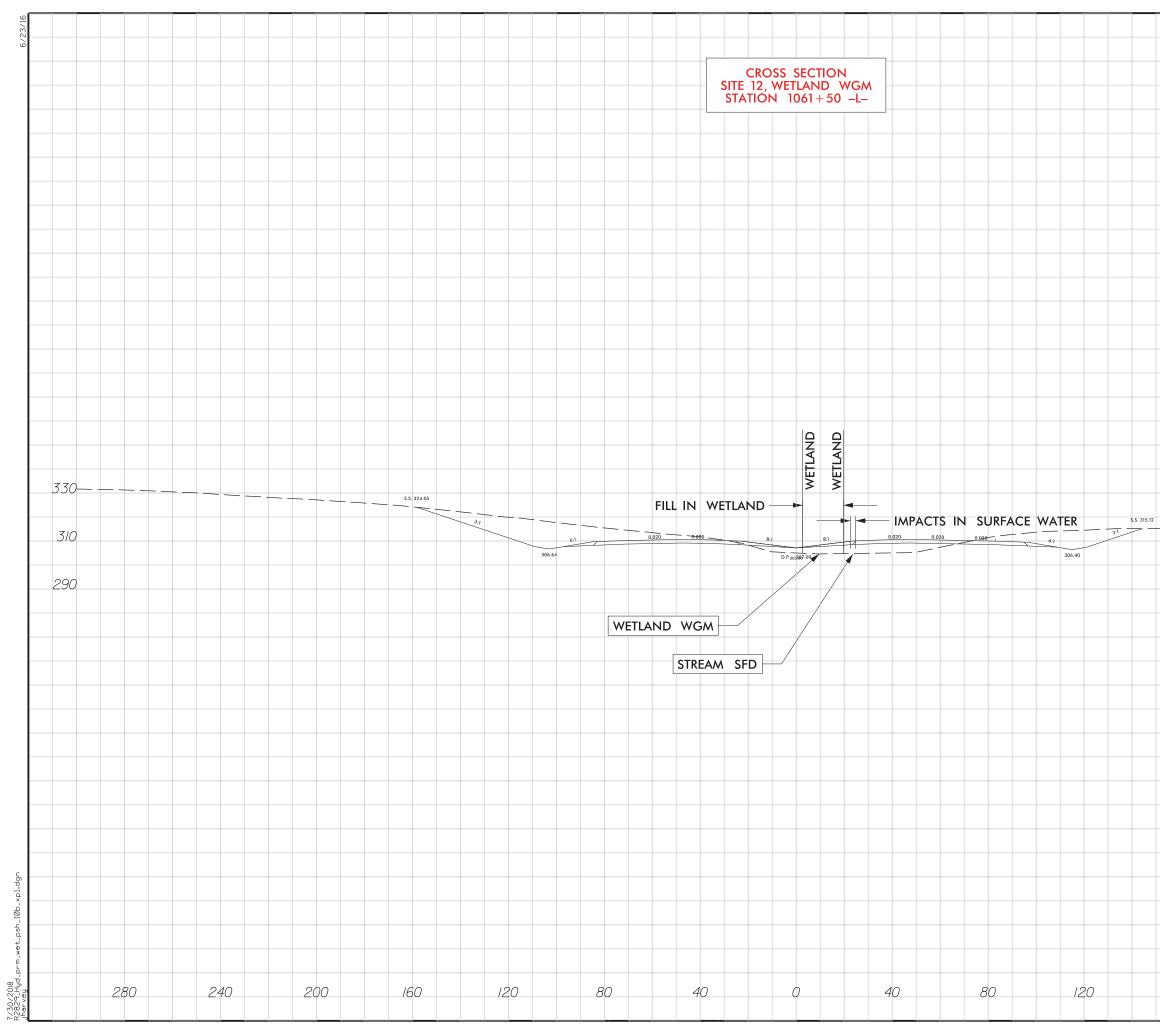
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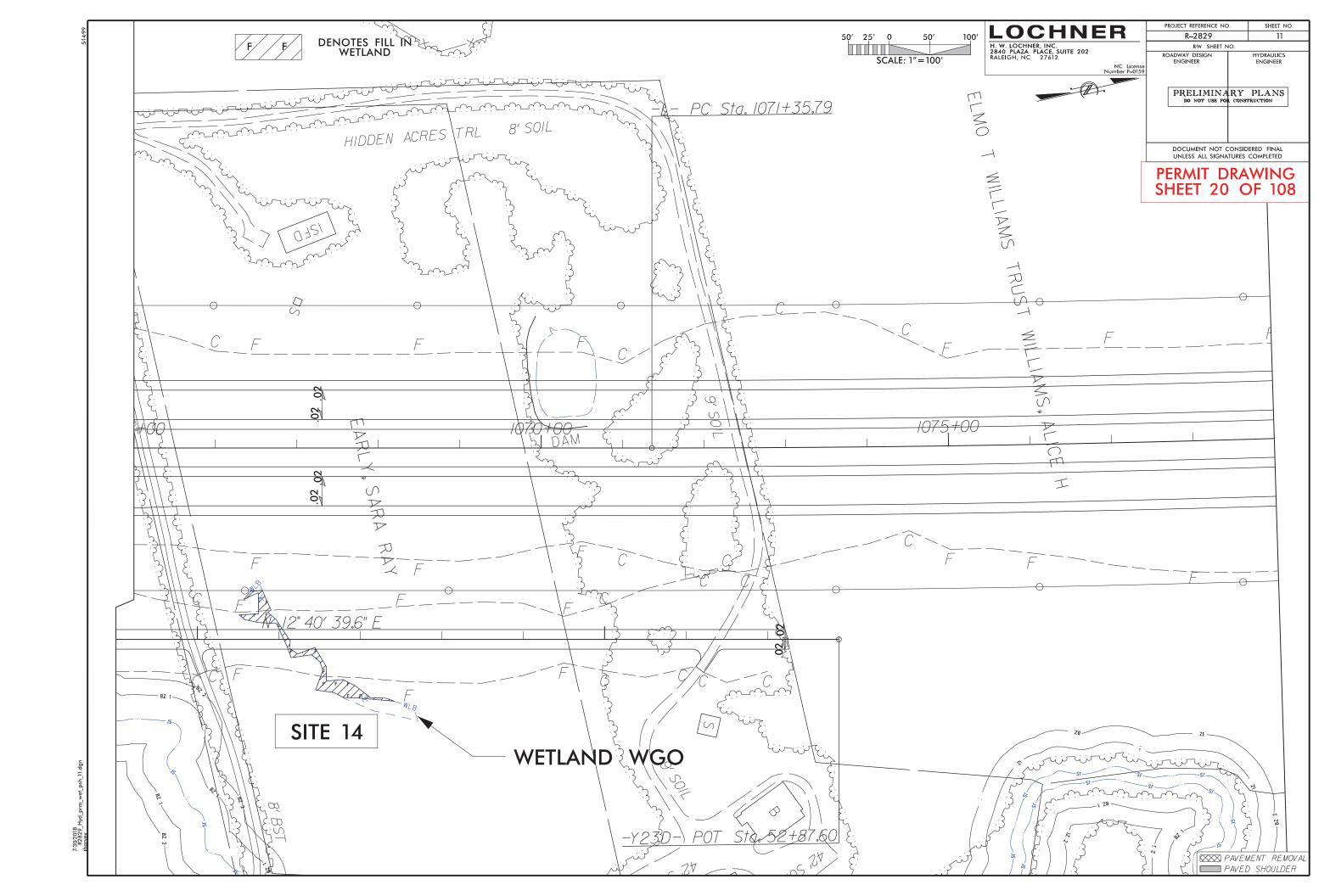
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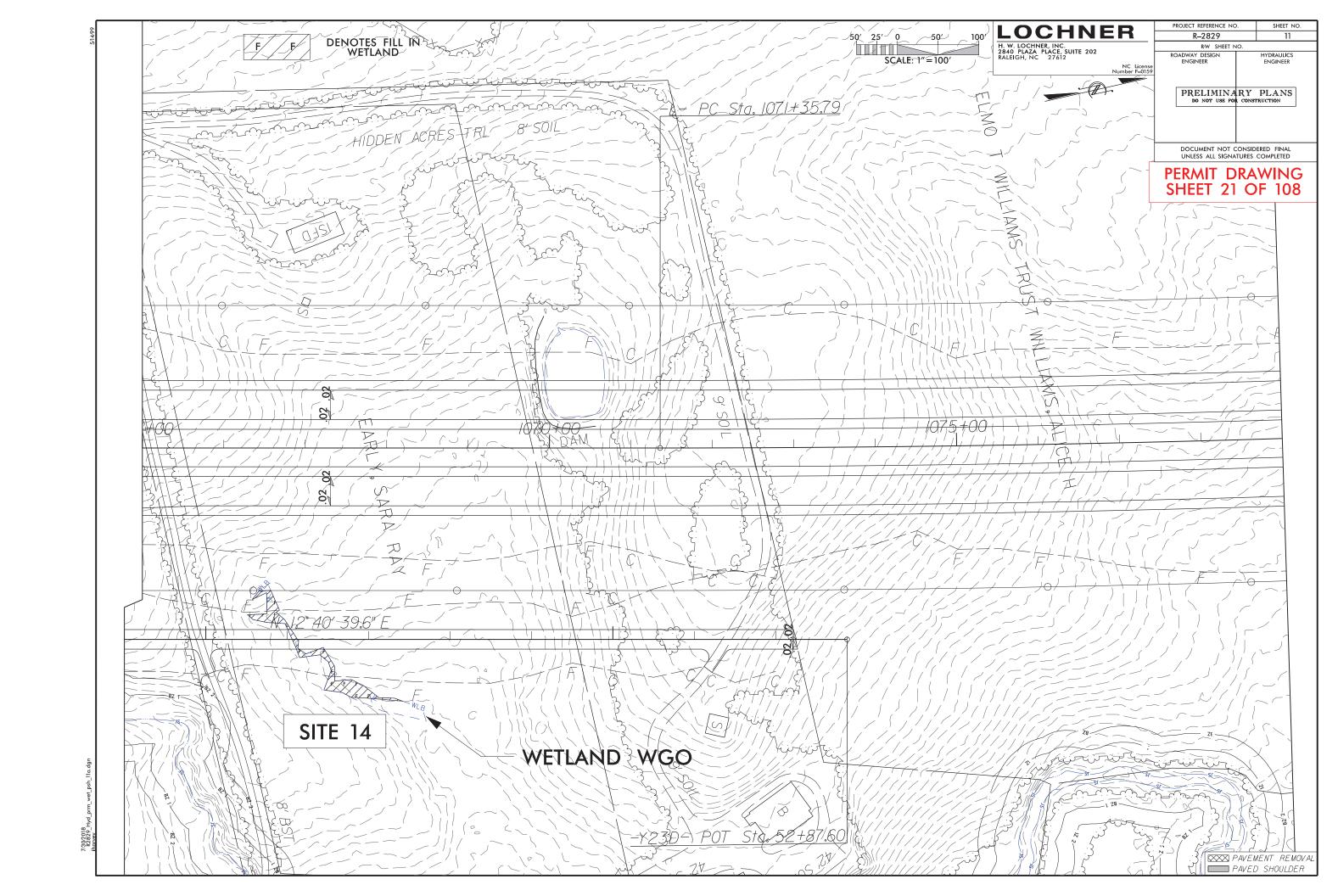


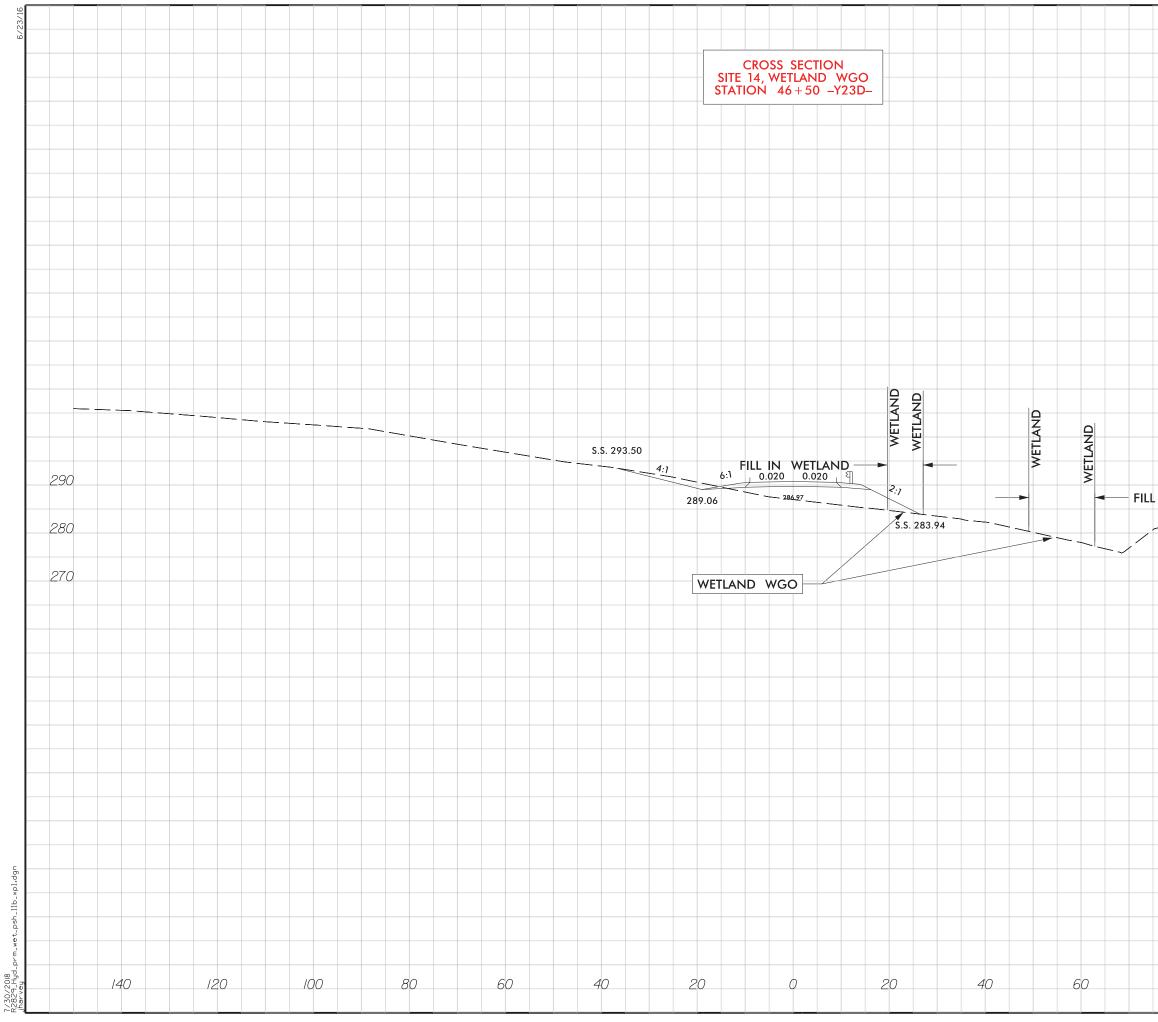




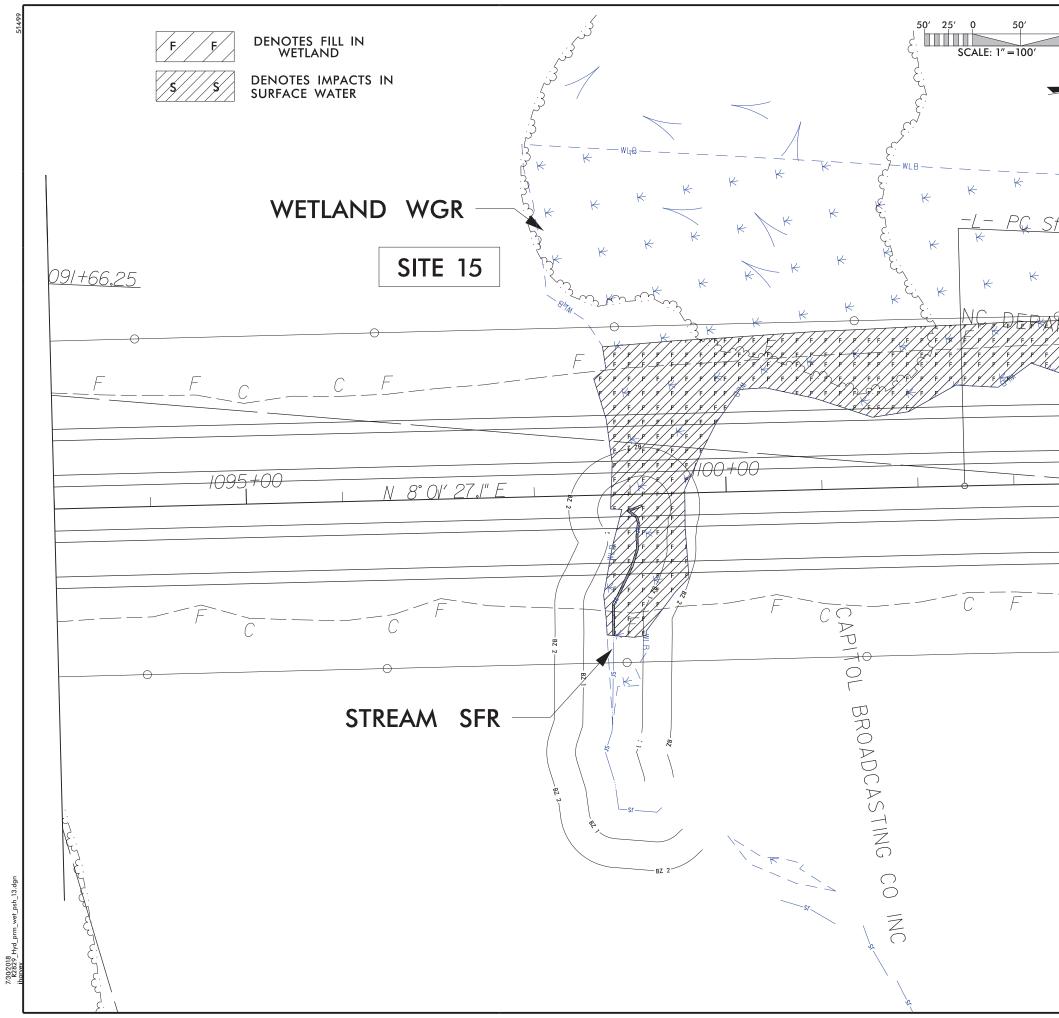
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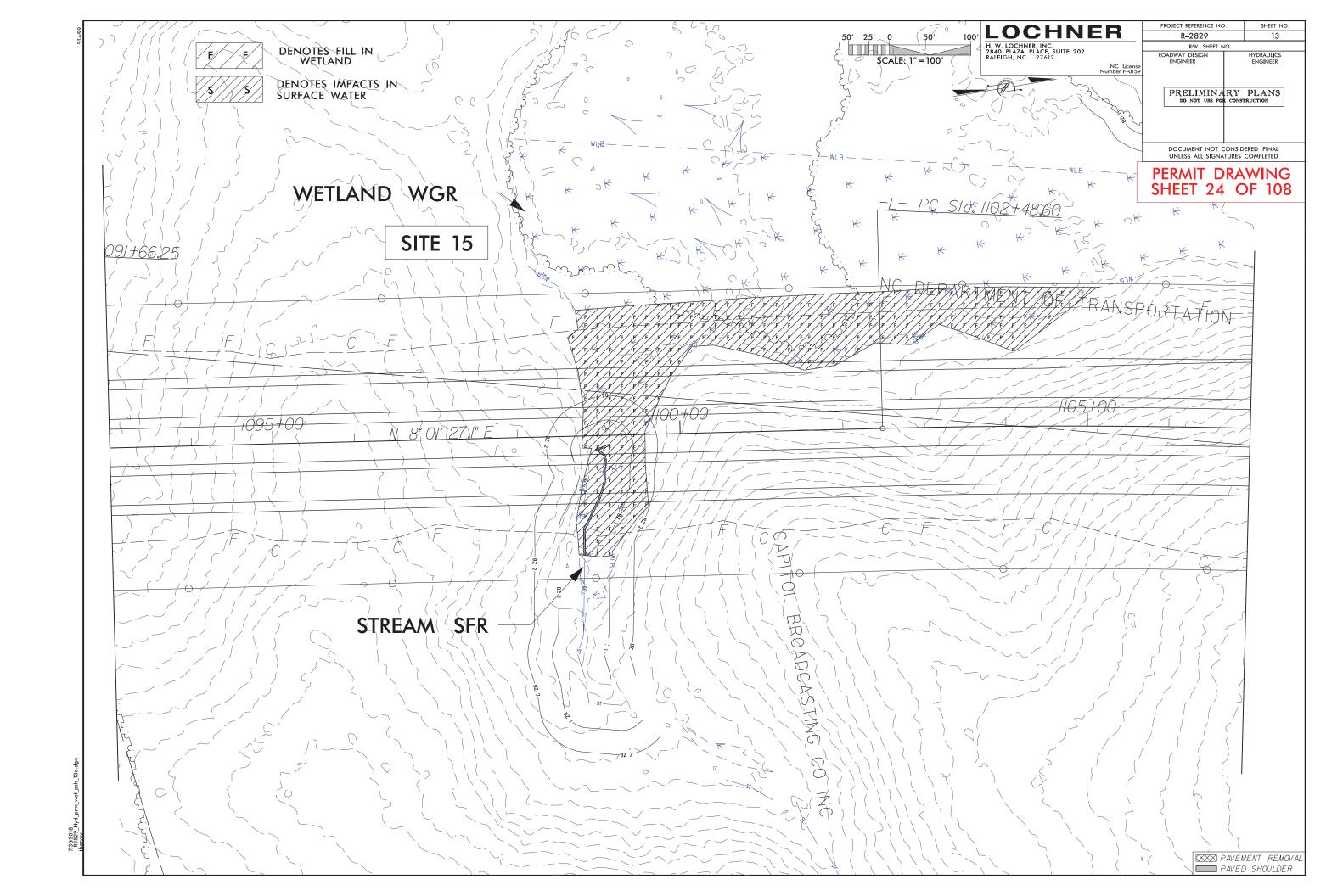


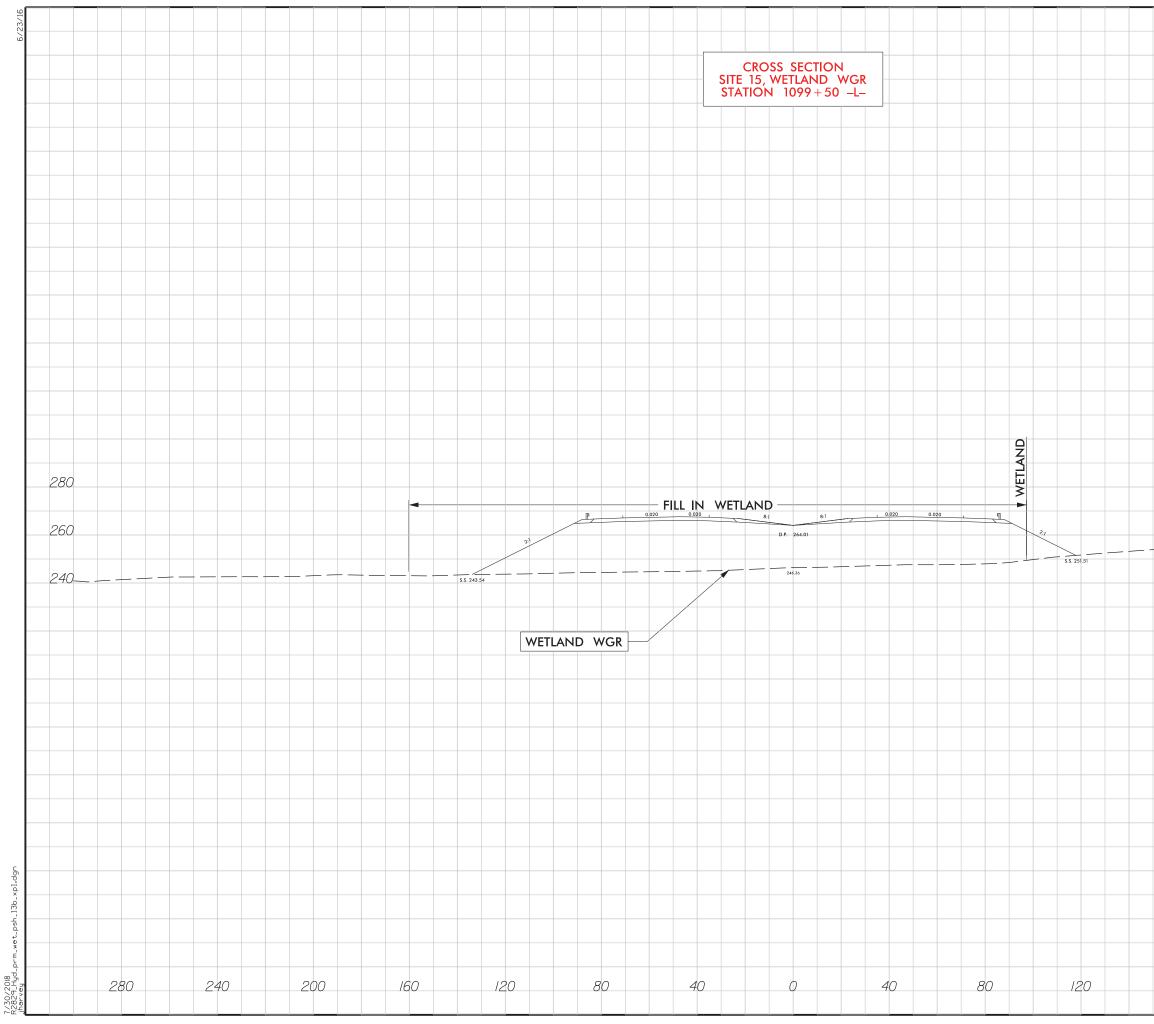


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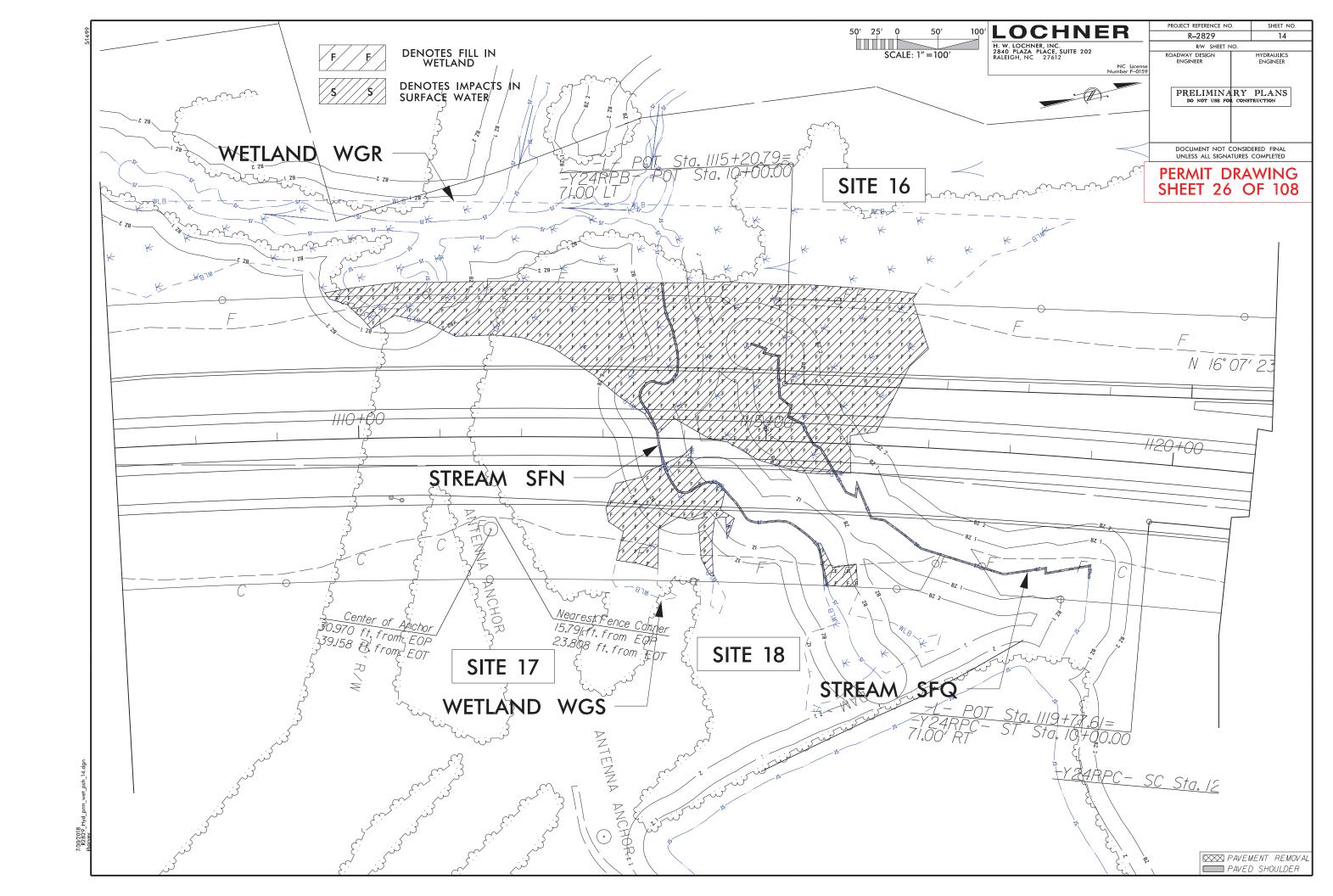


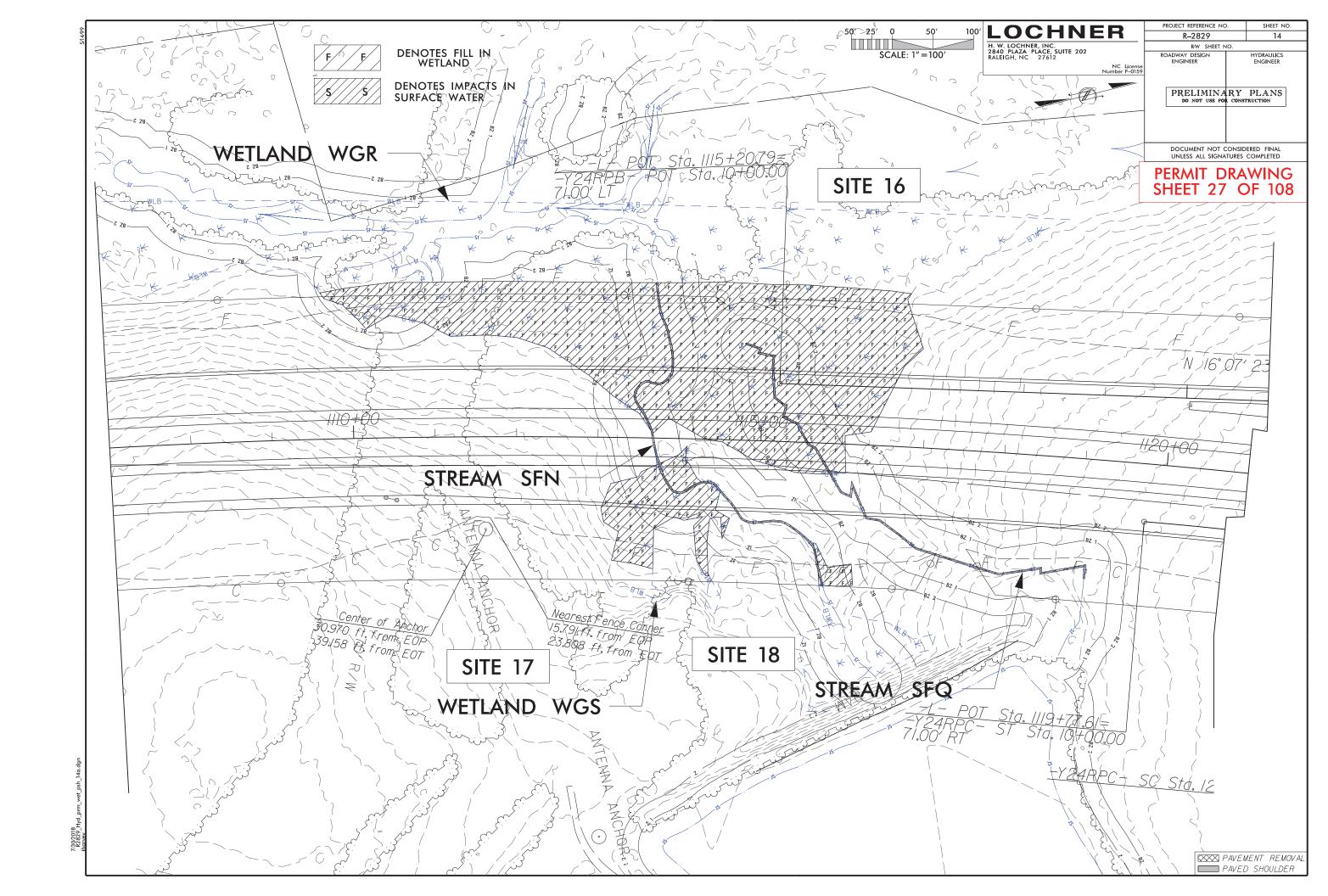
LOCHNER PROJECT REFERENCE NO. SHEET NO. RW SHEET NO. ROADWAY DESIGN ENGINEER 10<u>0</u>′ 13 H. W. LOCHNER, INC. 2840 PLAZA PLACE, SUITE 202 RALEIGH, NC 27612 HYDRAULICS ENGINEER NC License mber F–0159 PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED PERMIT DRAWING SHEET 23 OF 108 <u>PC_Std</u>: 1102+48.60 RANSPORTATION 1105+00 PAVEMENT REMOVAL

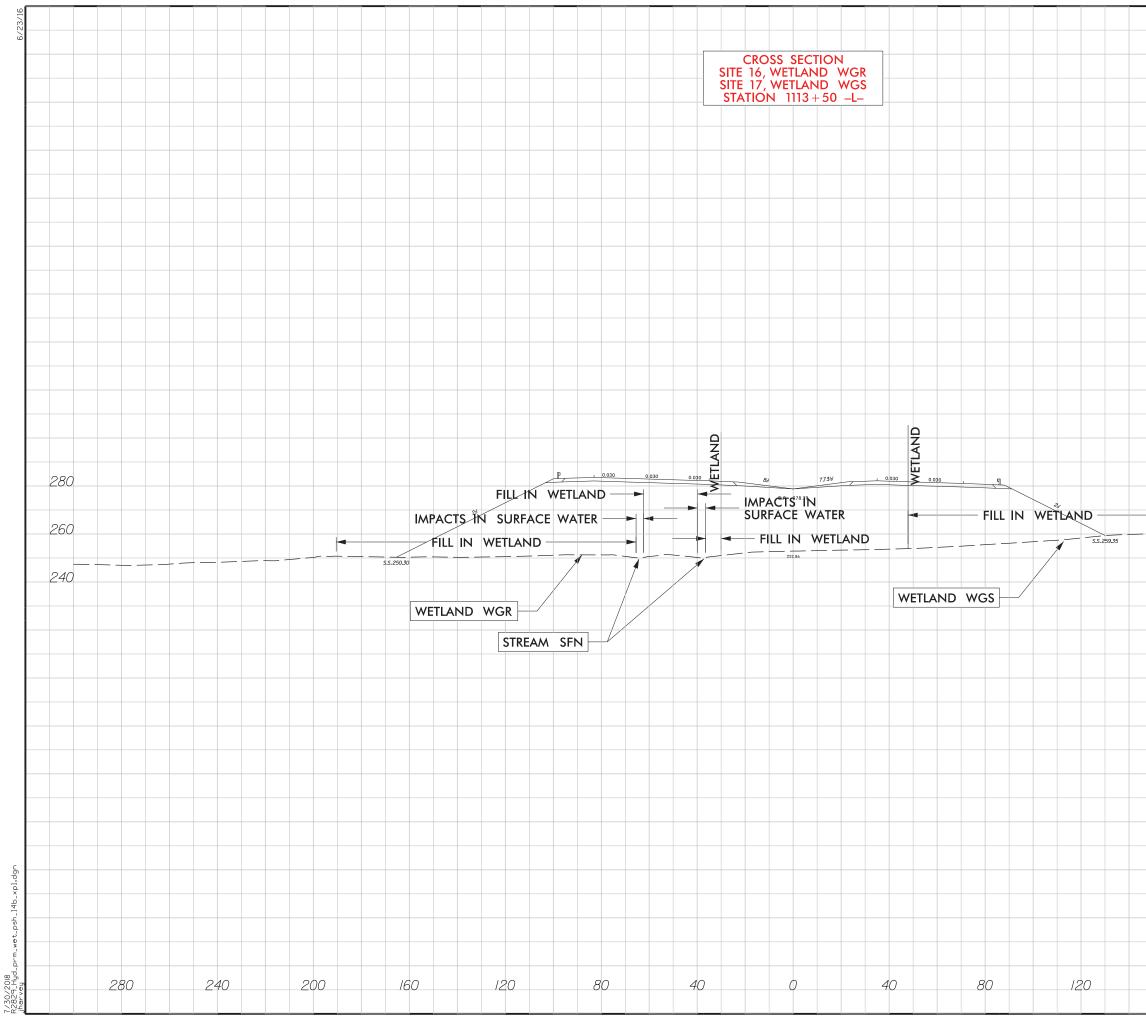




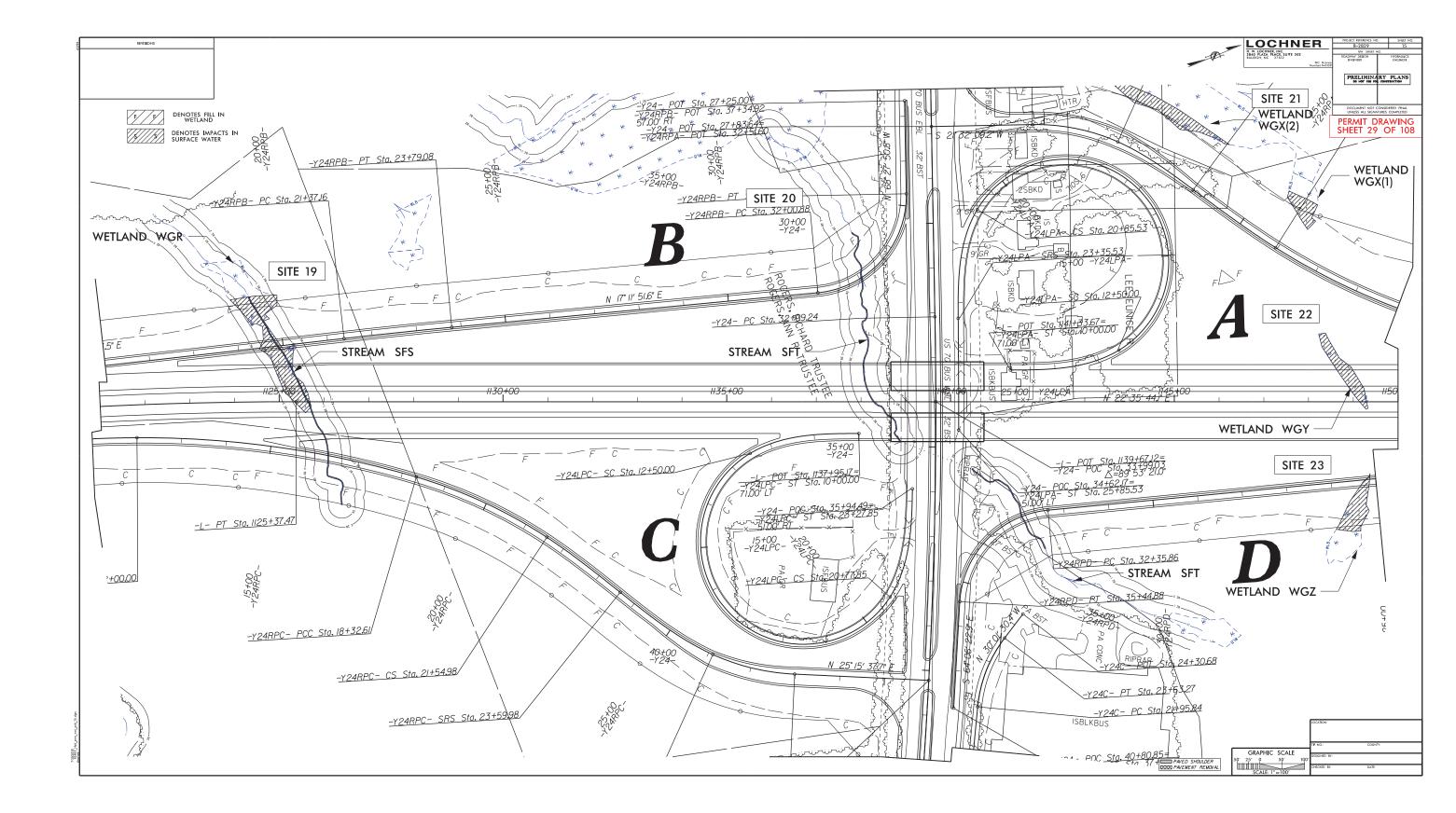
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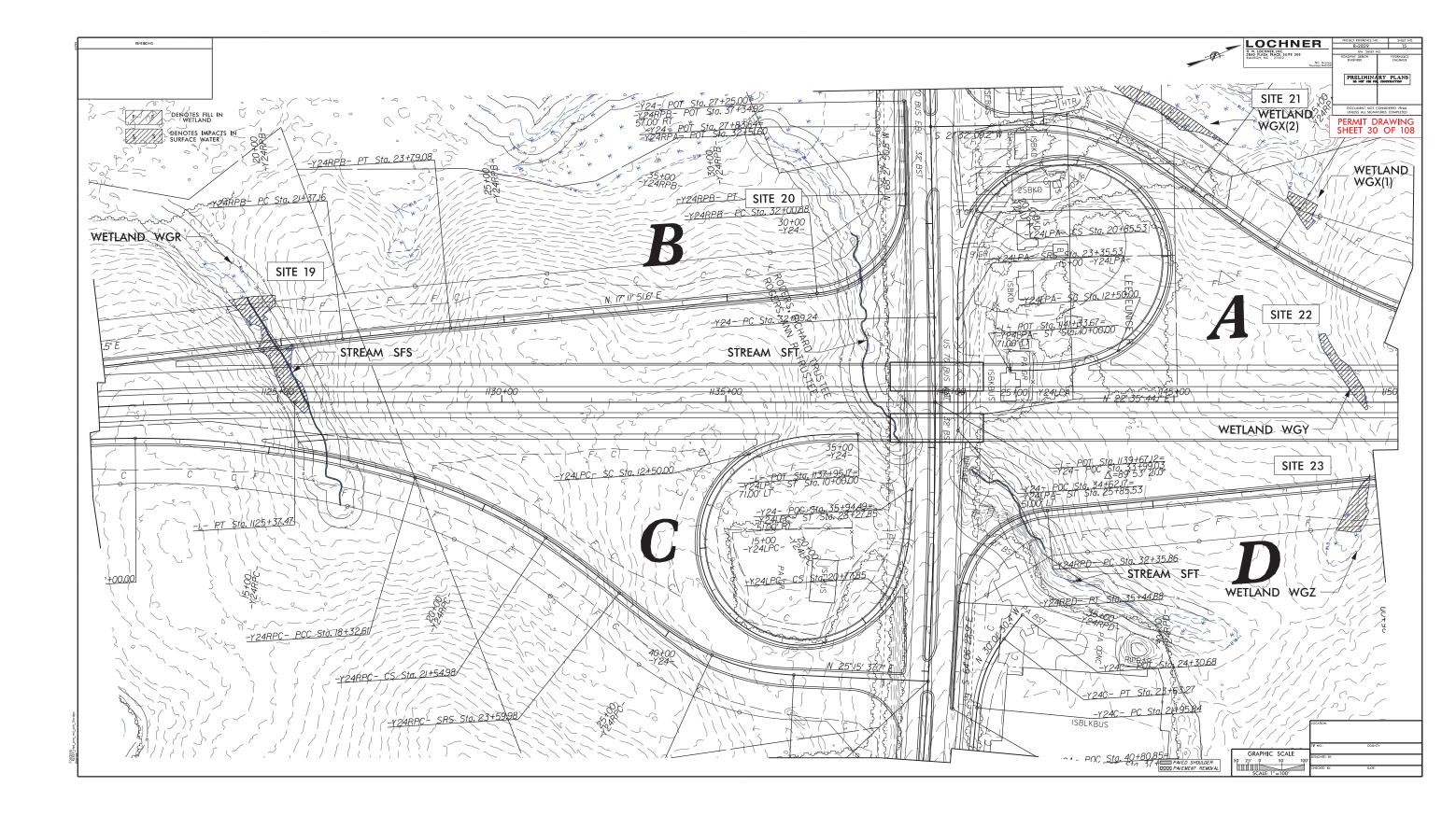


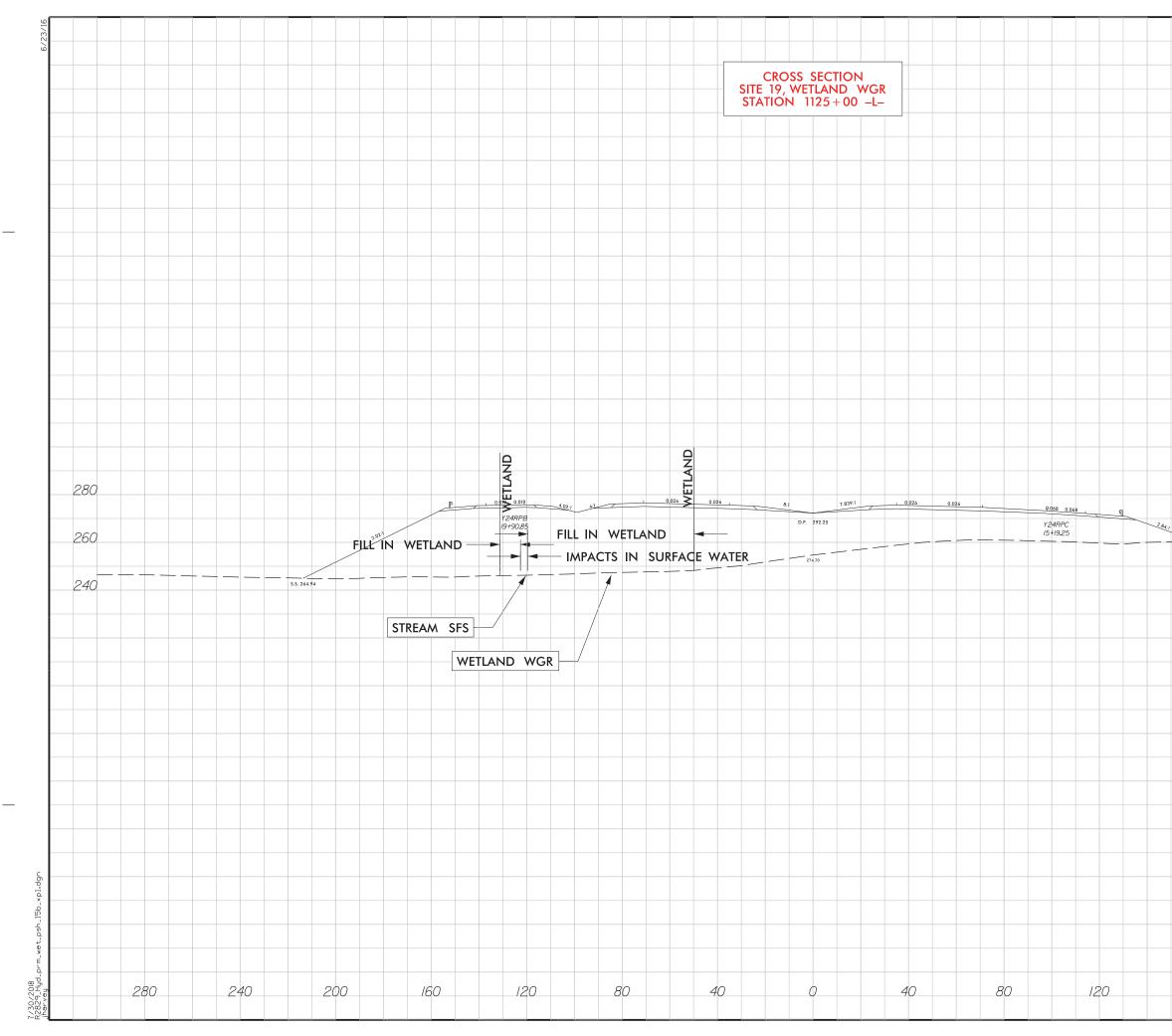




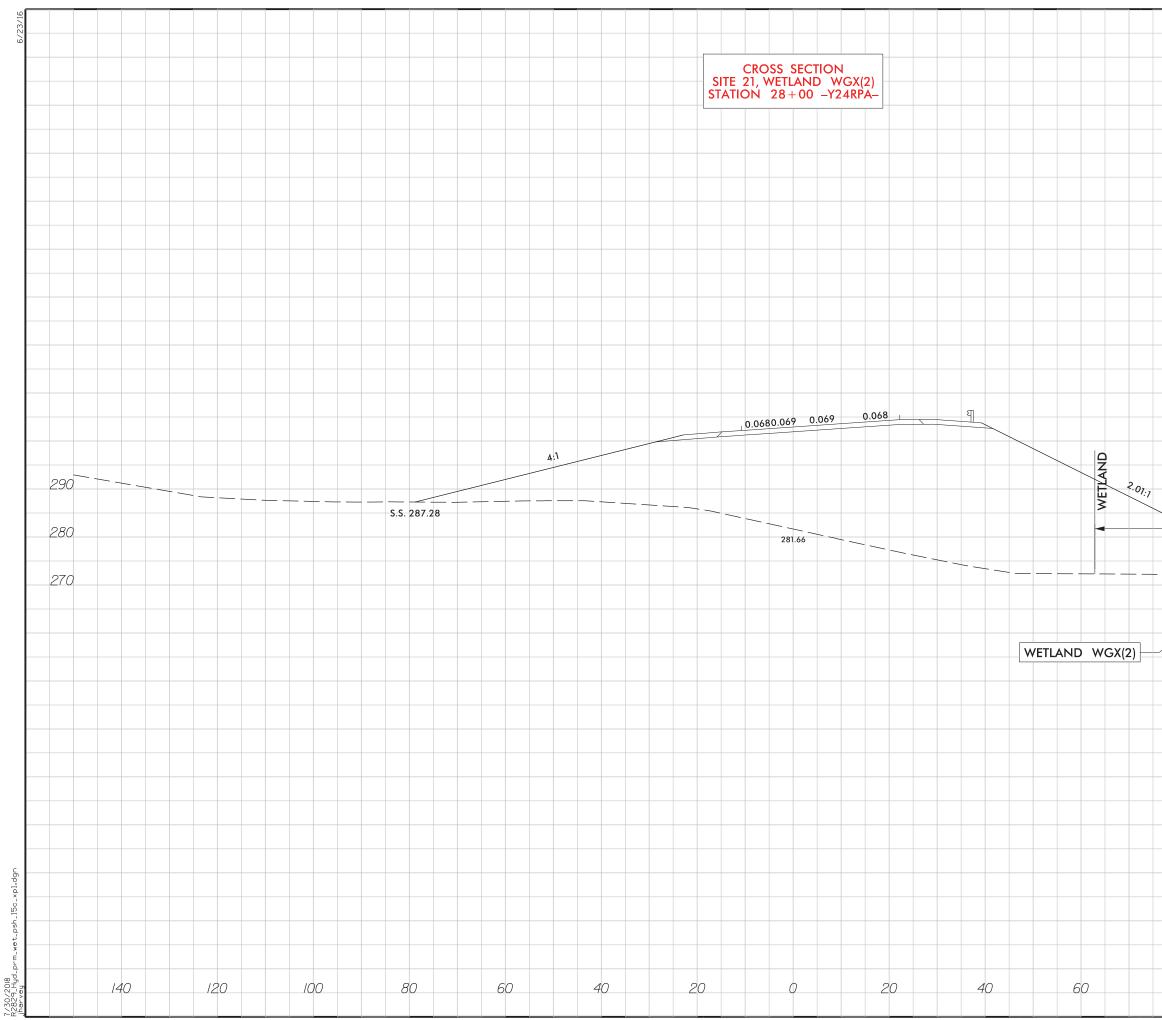
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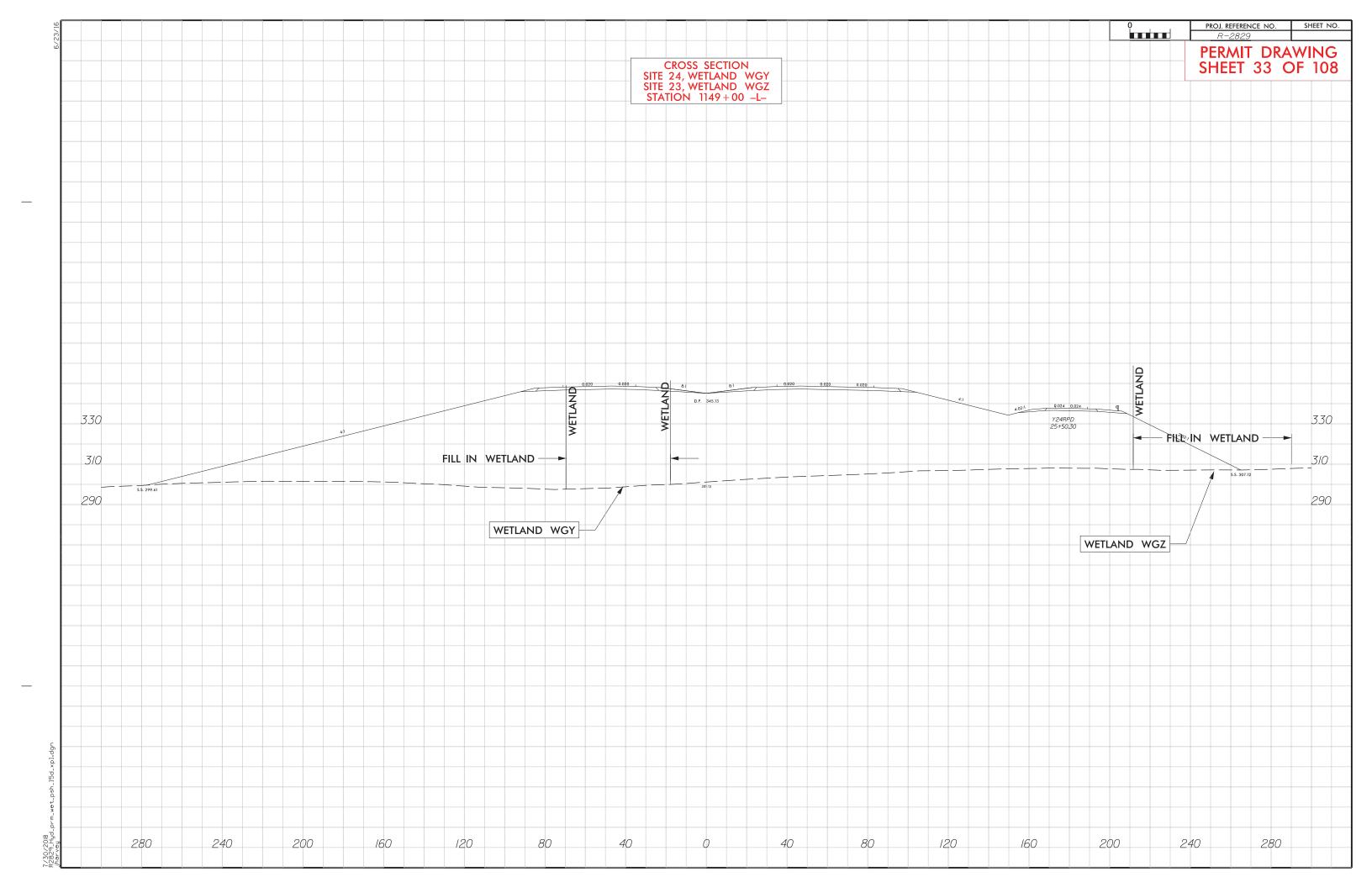


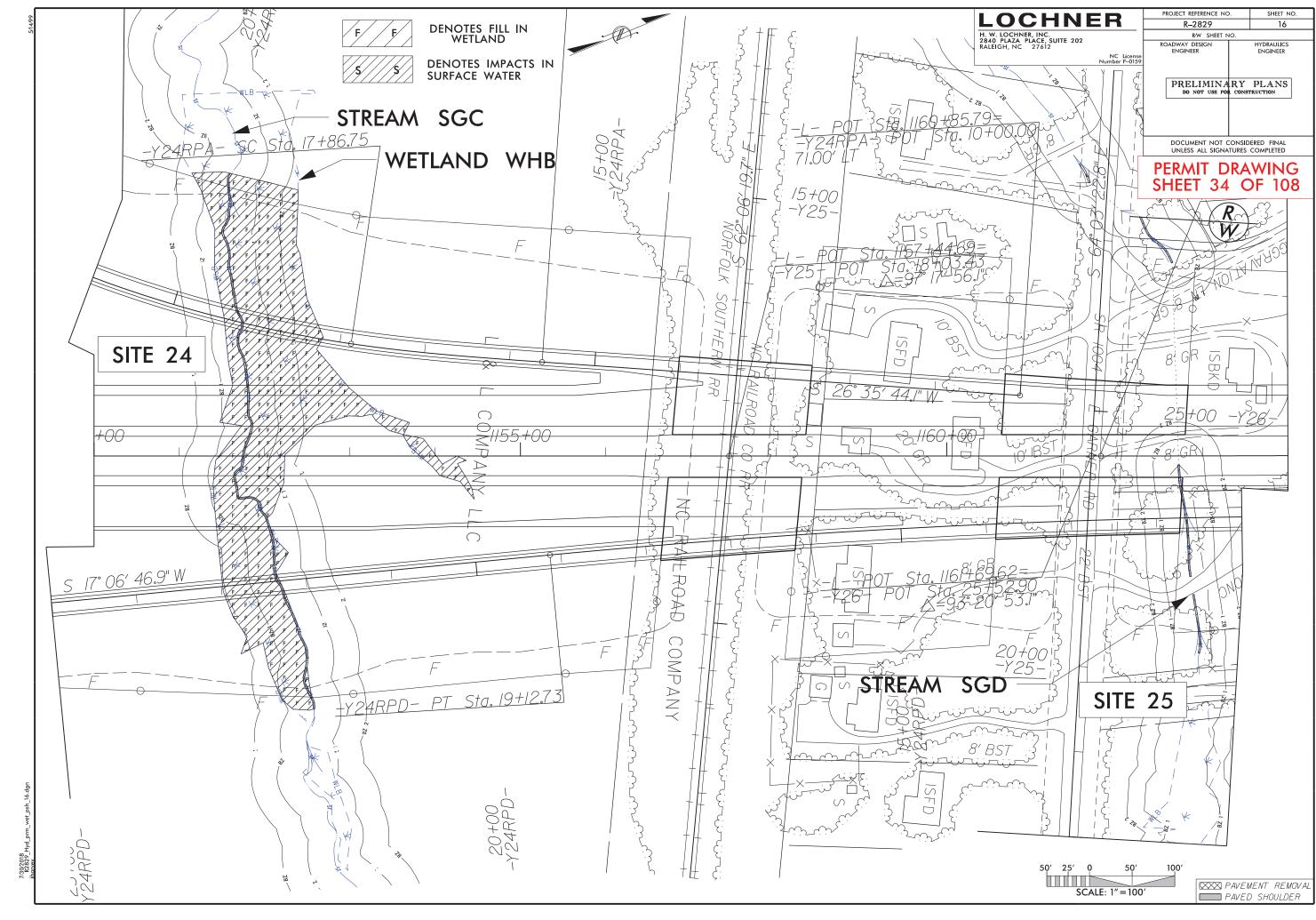


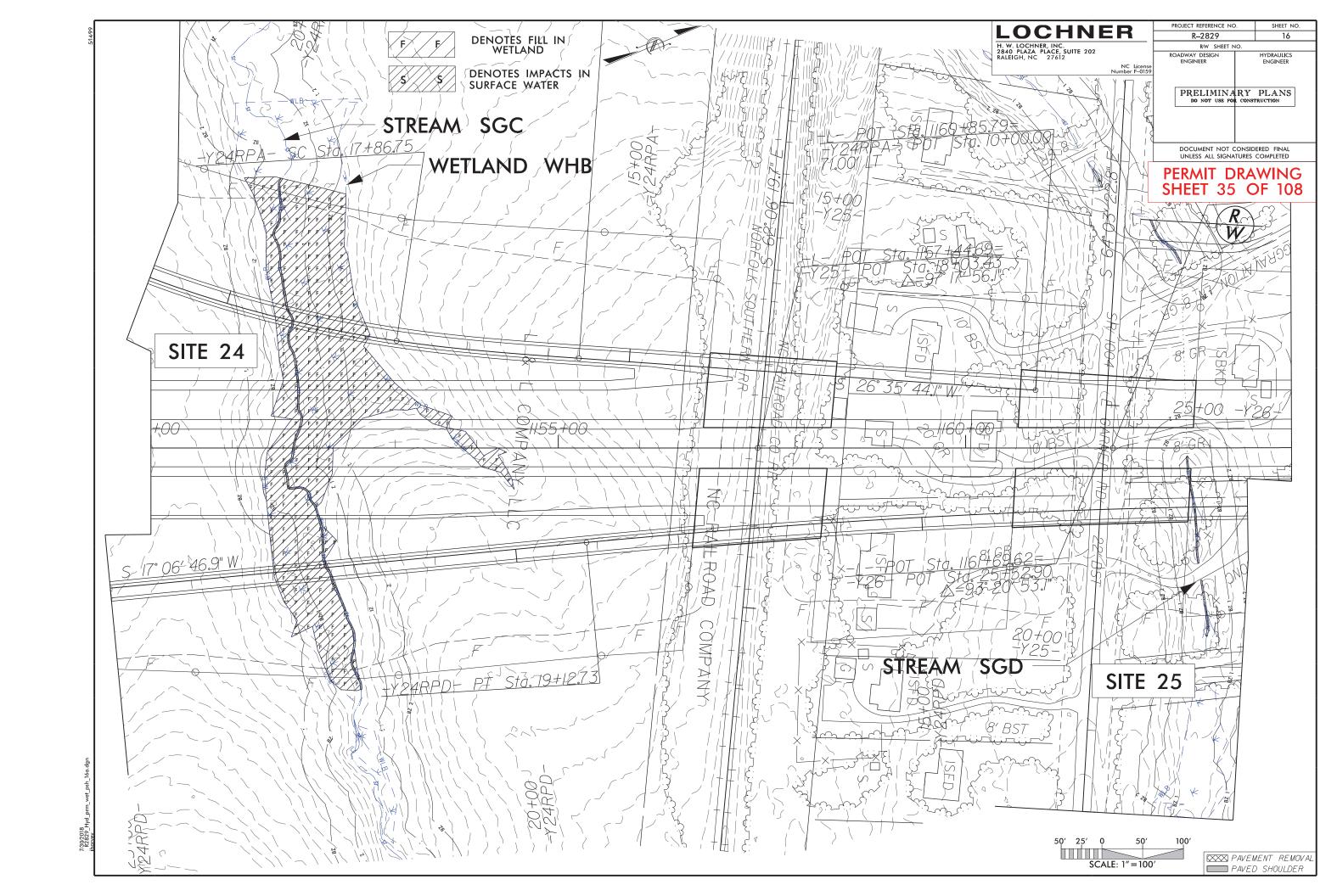
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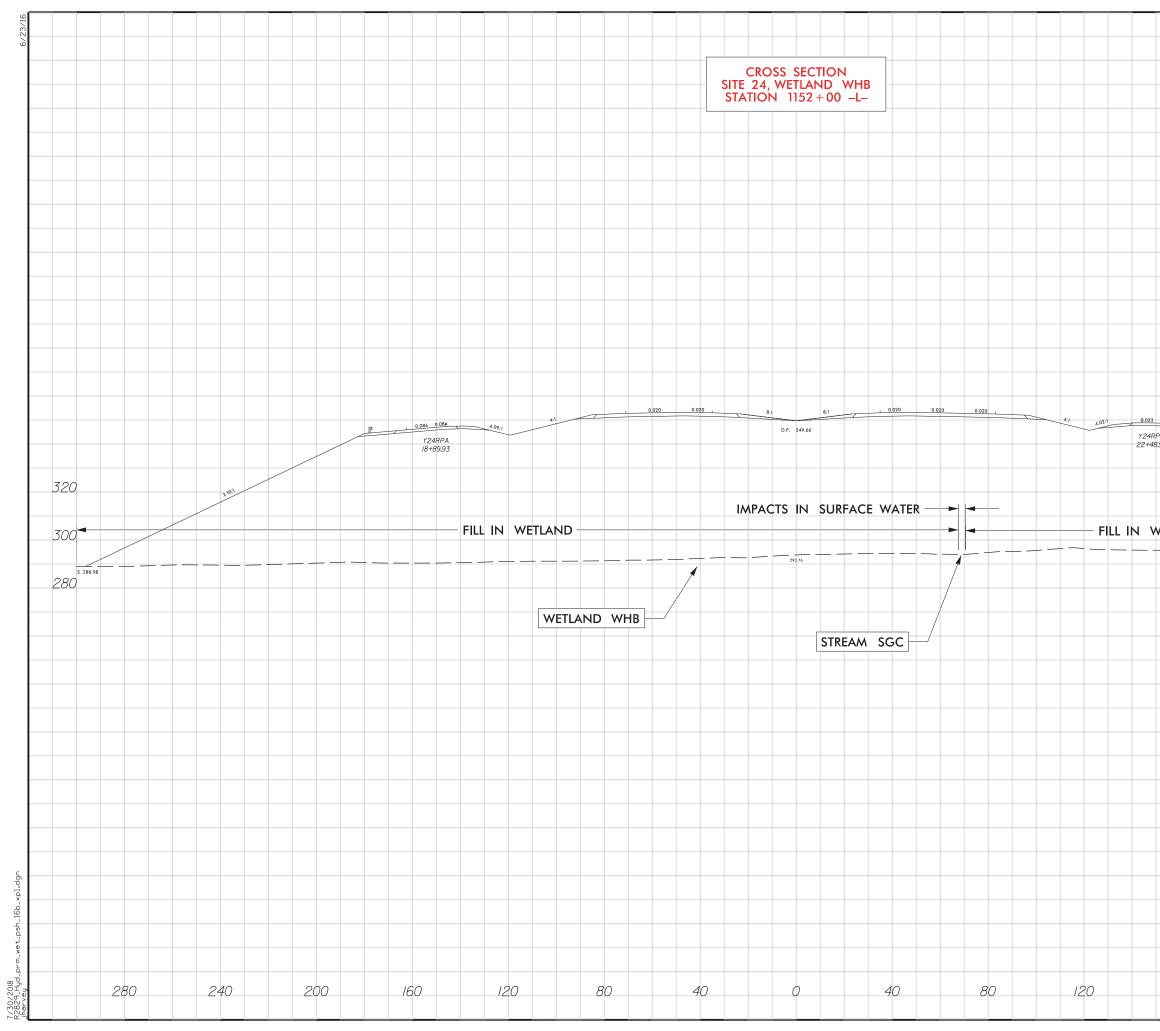


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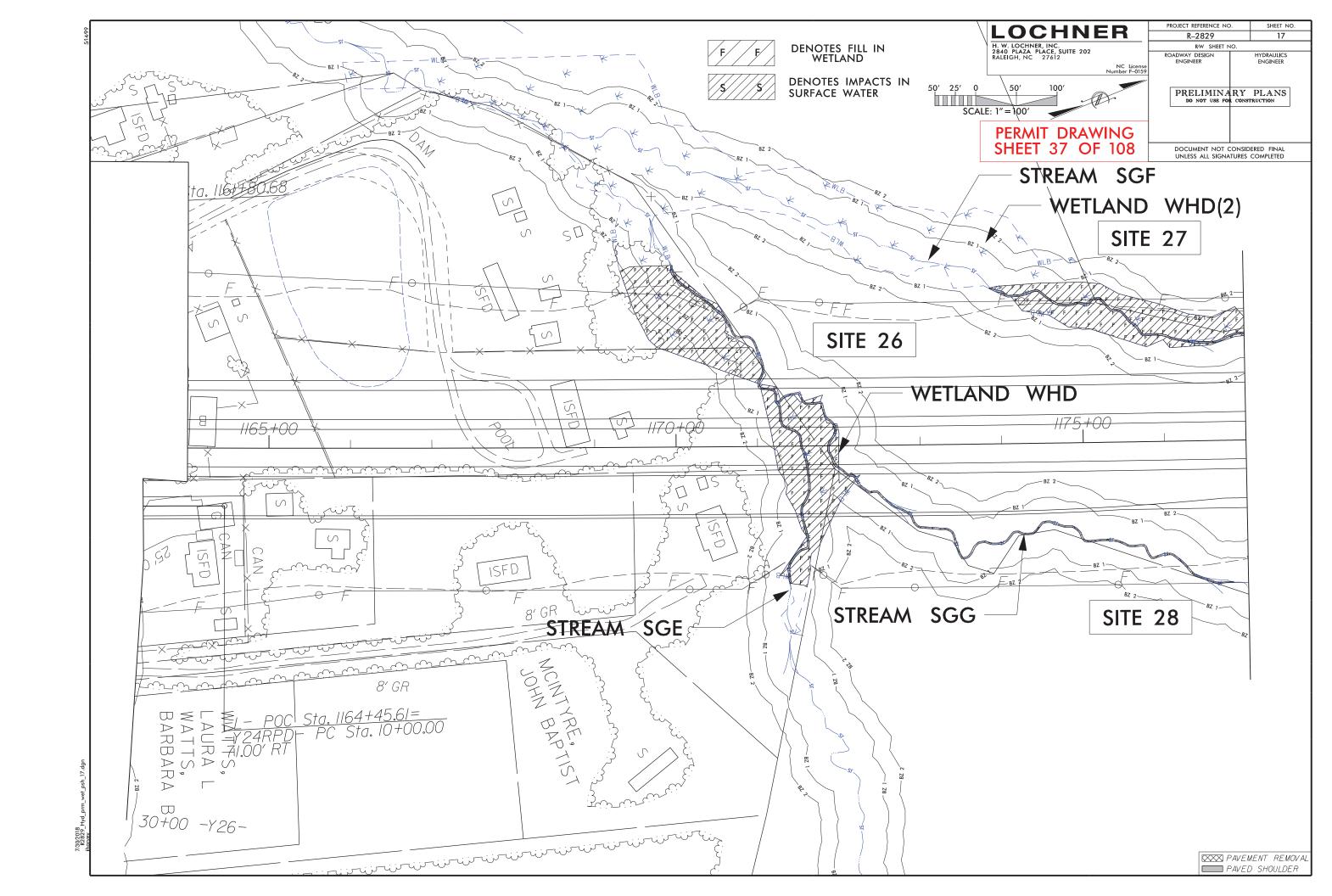


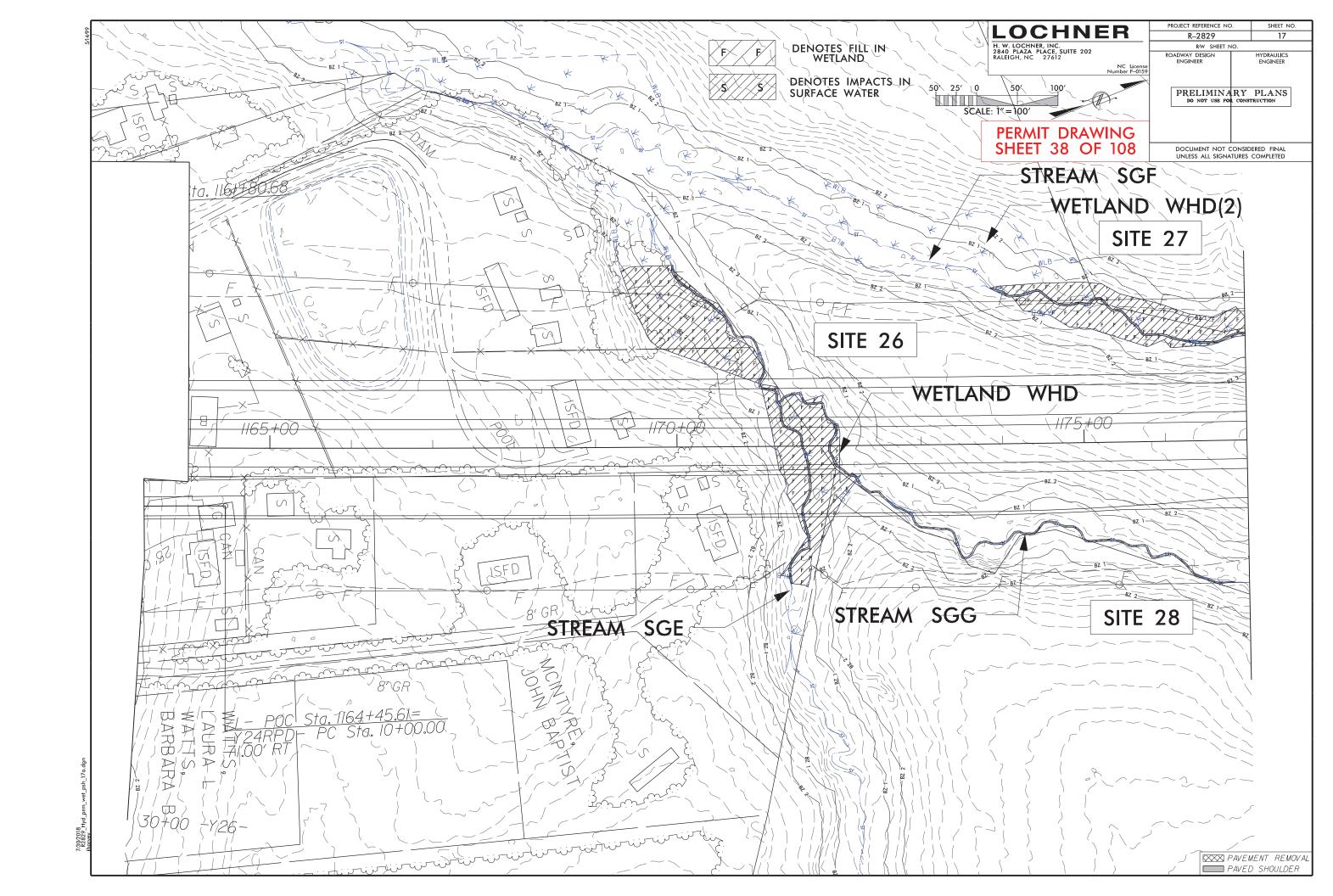


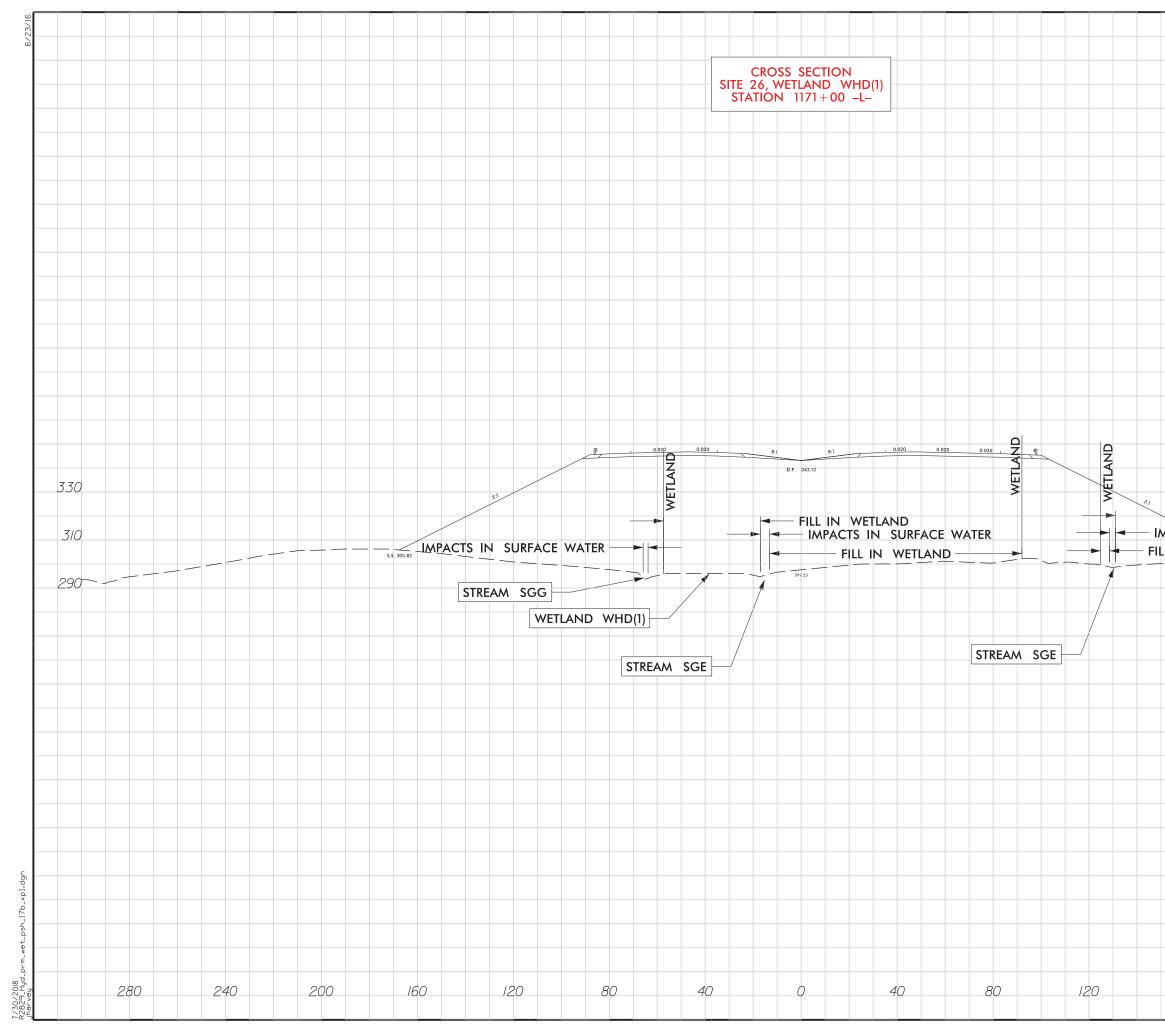




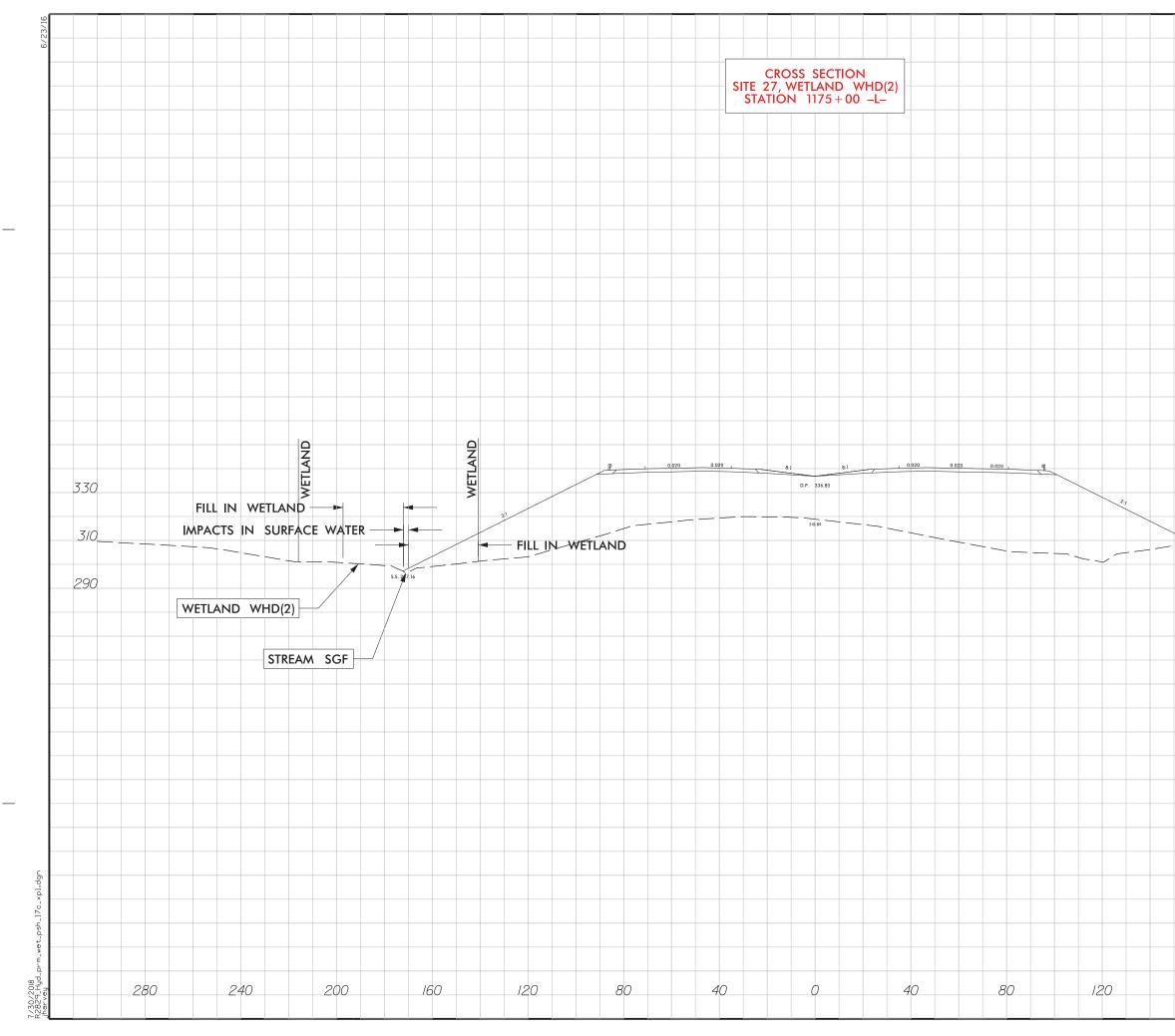
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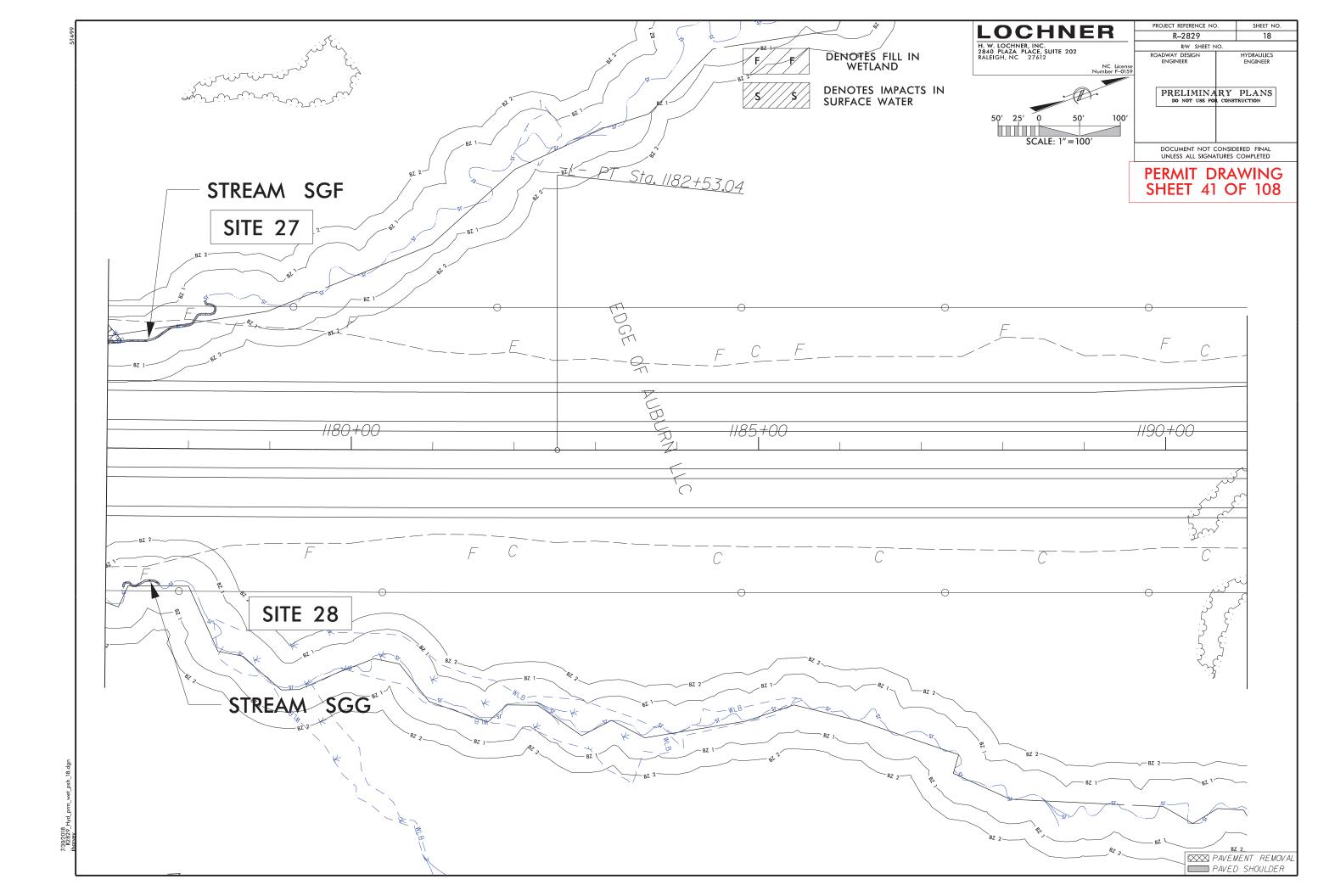


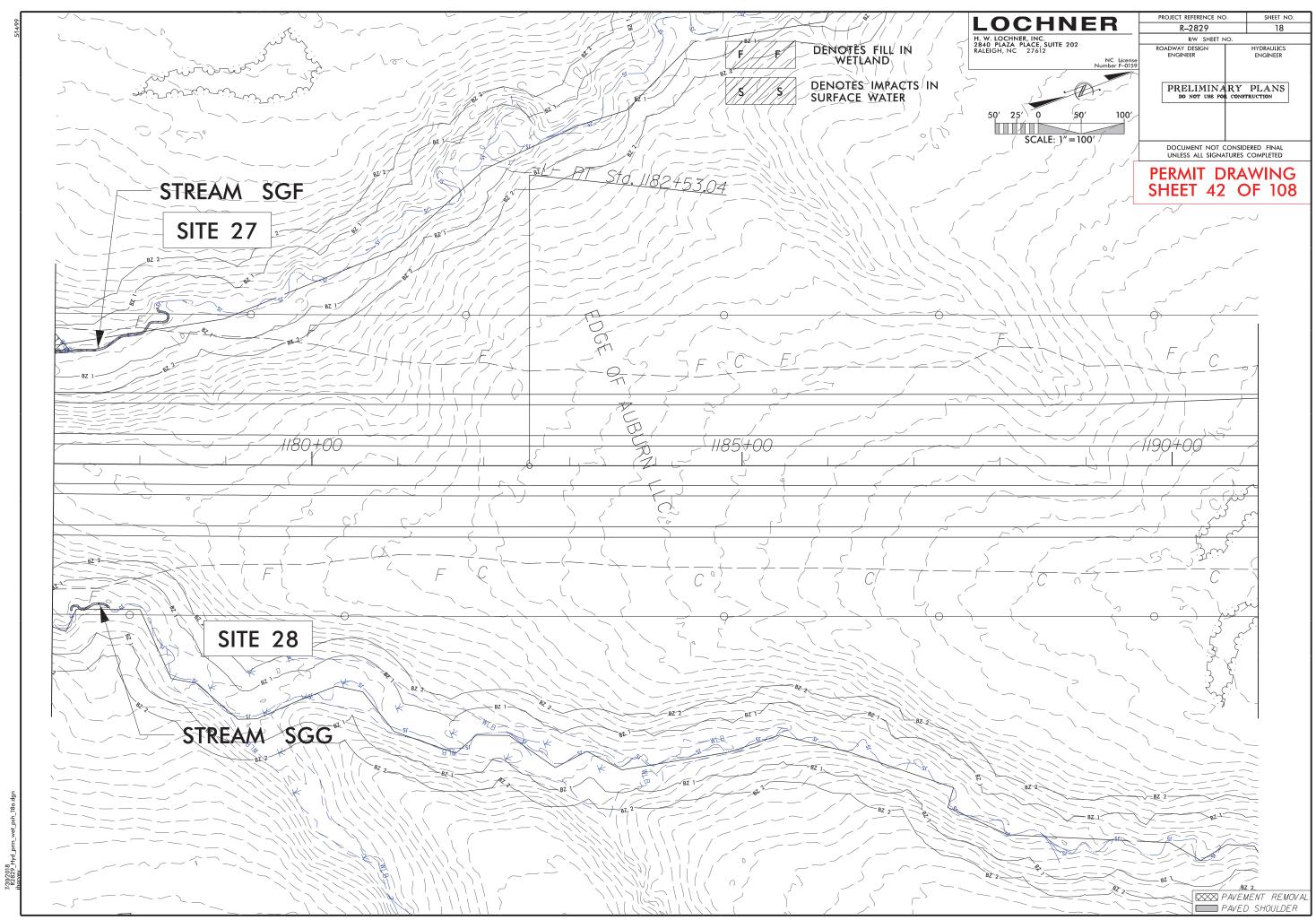


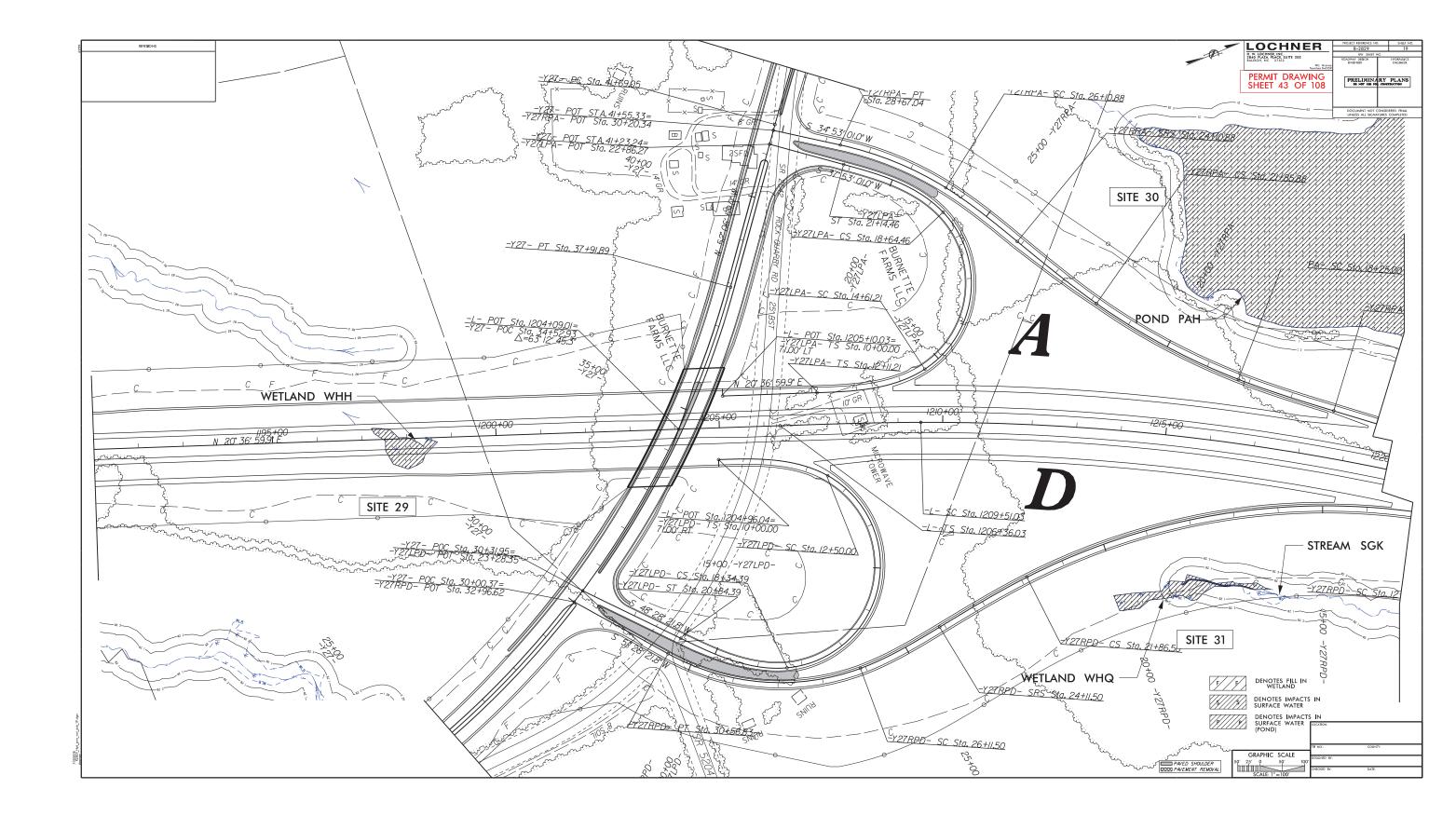
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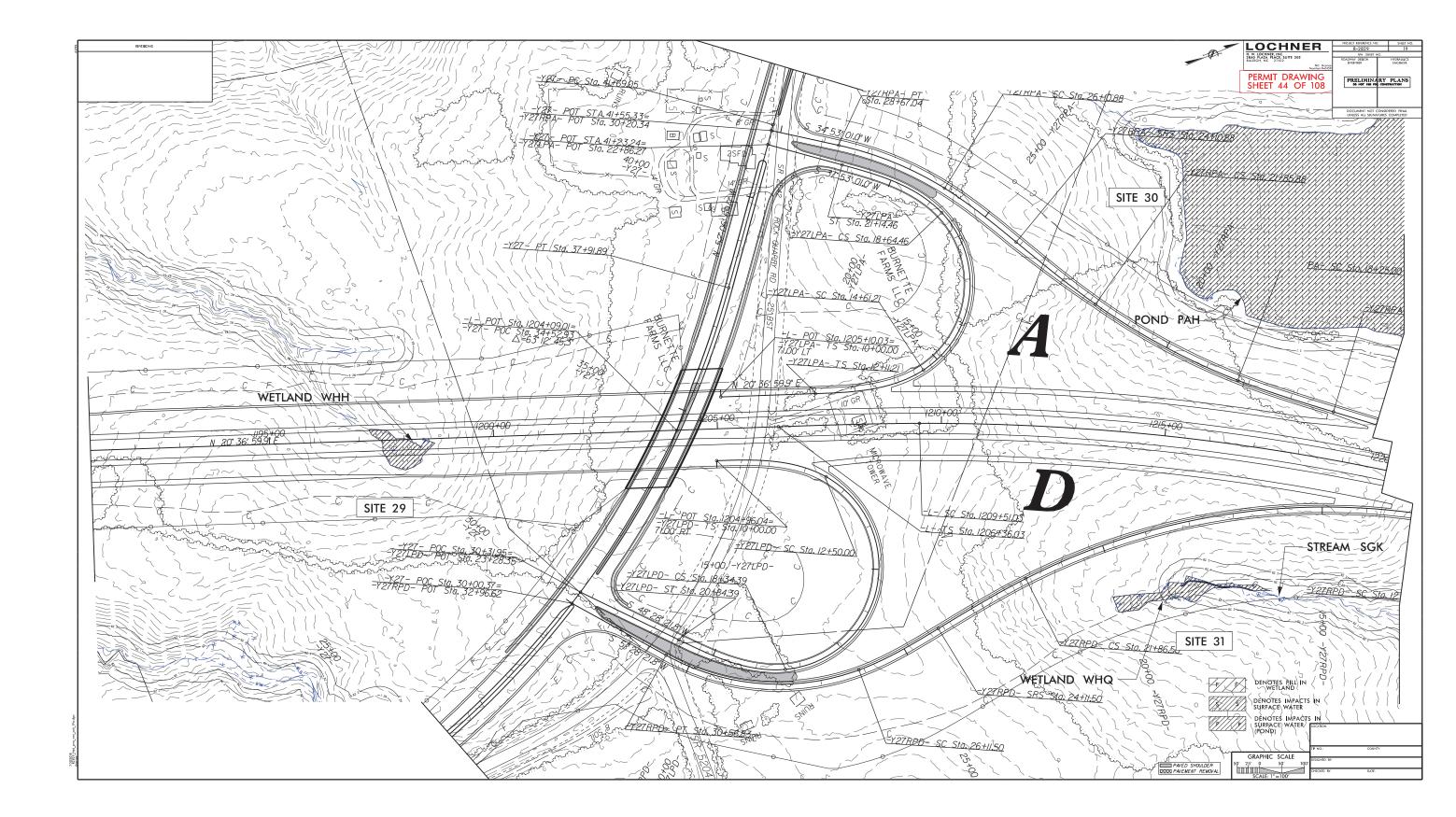


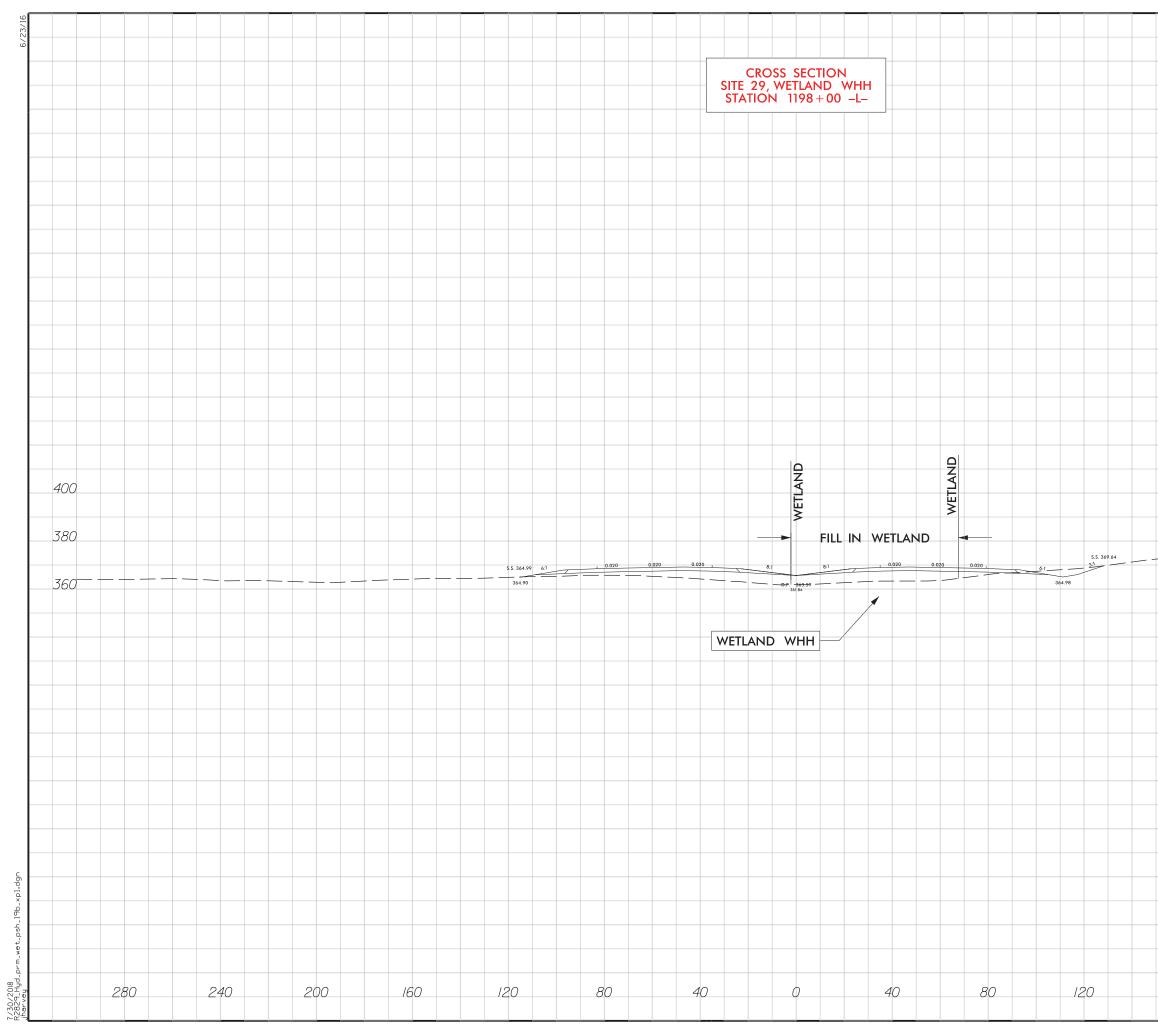
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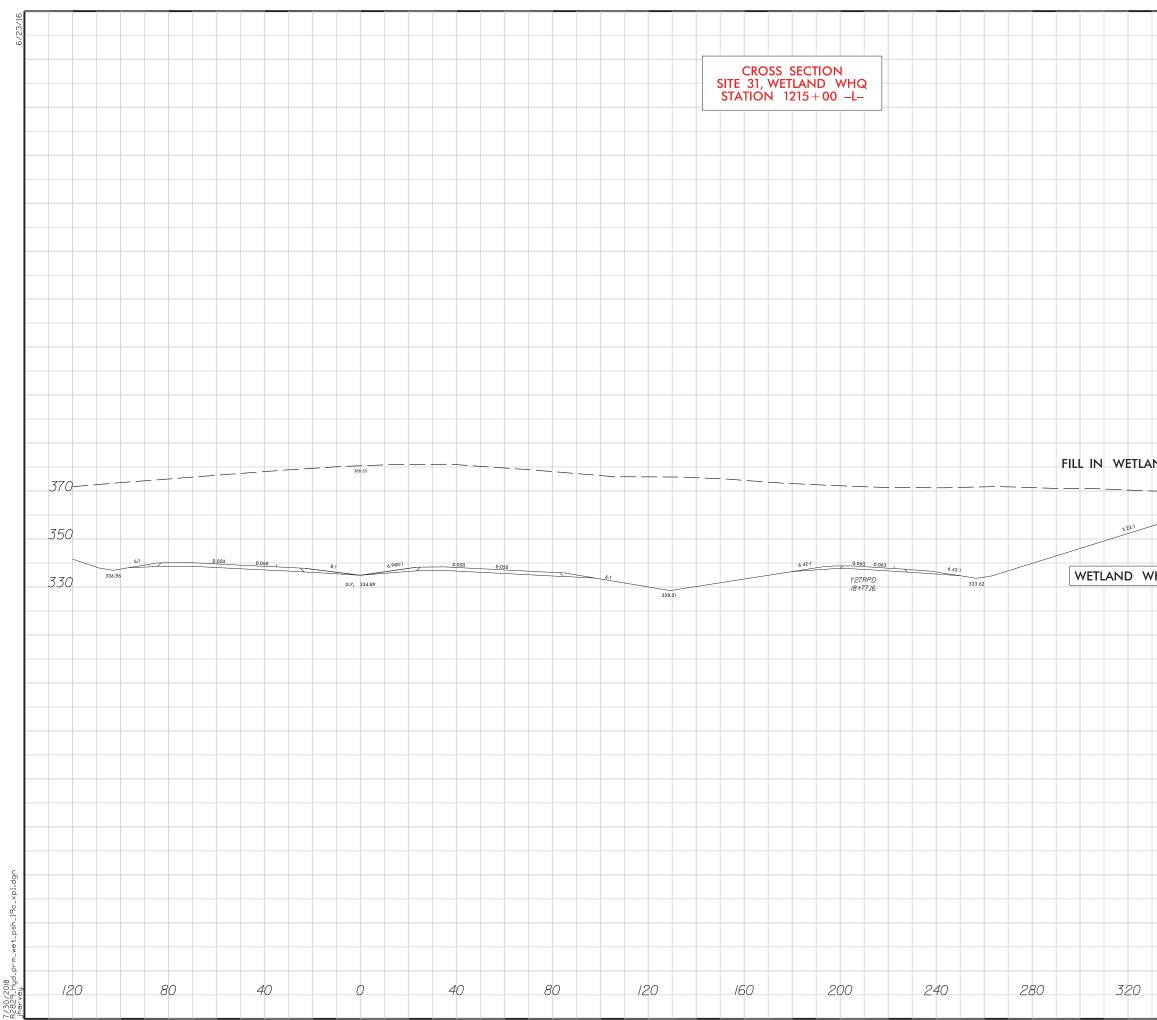




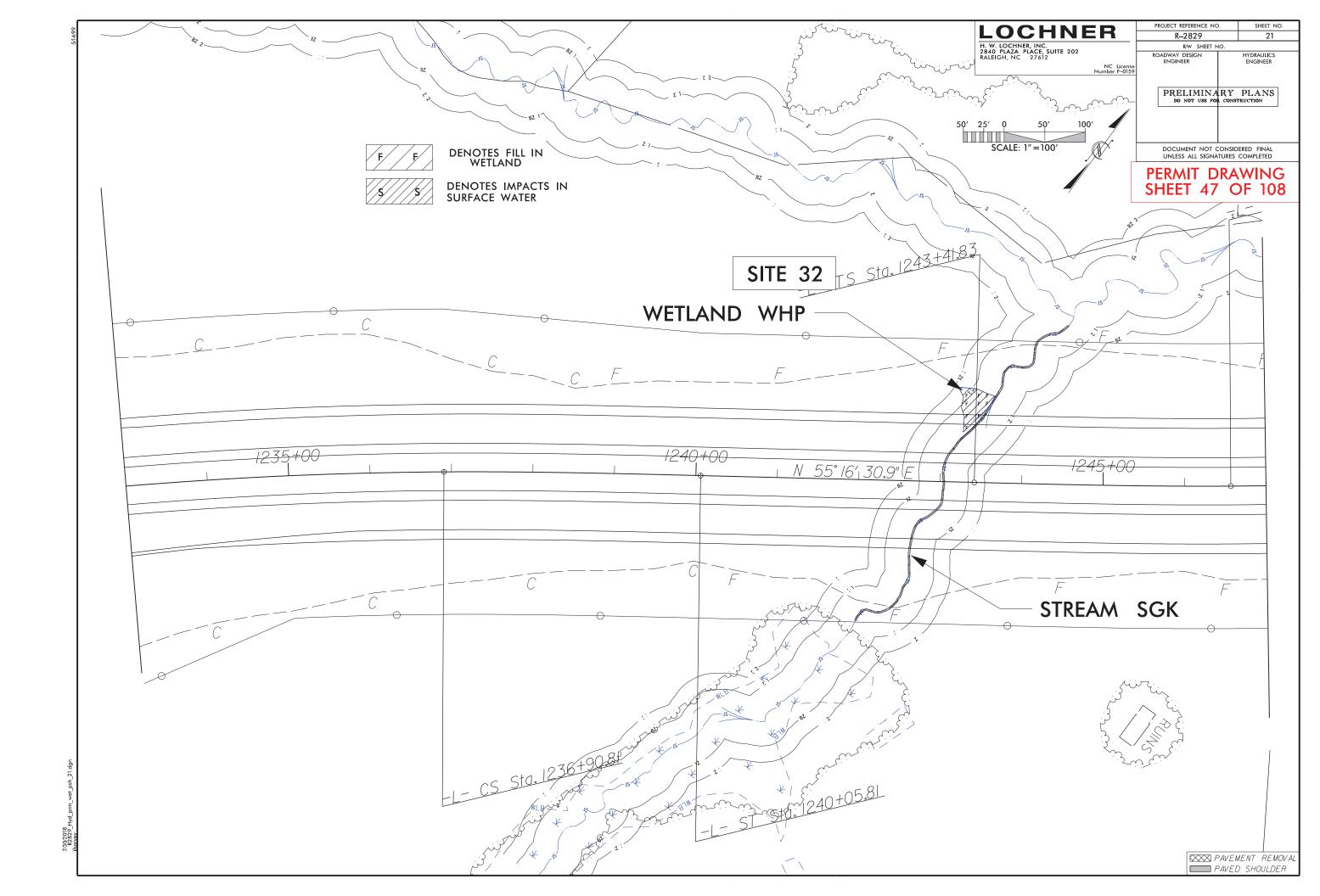


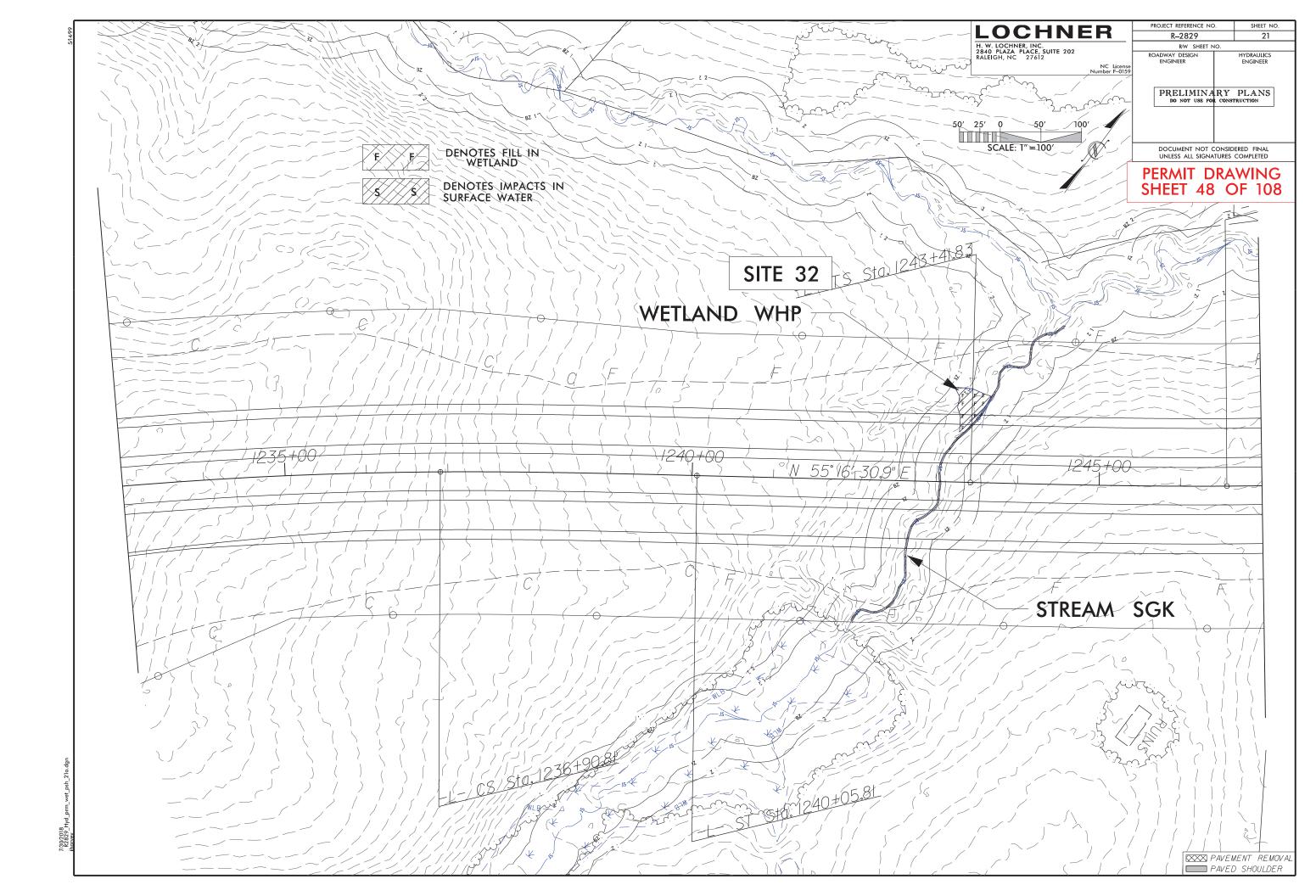


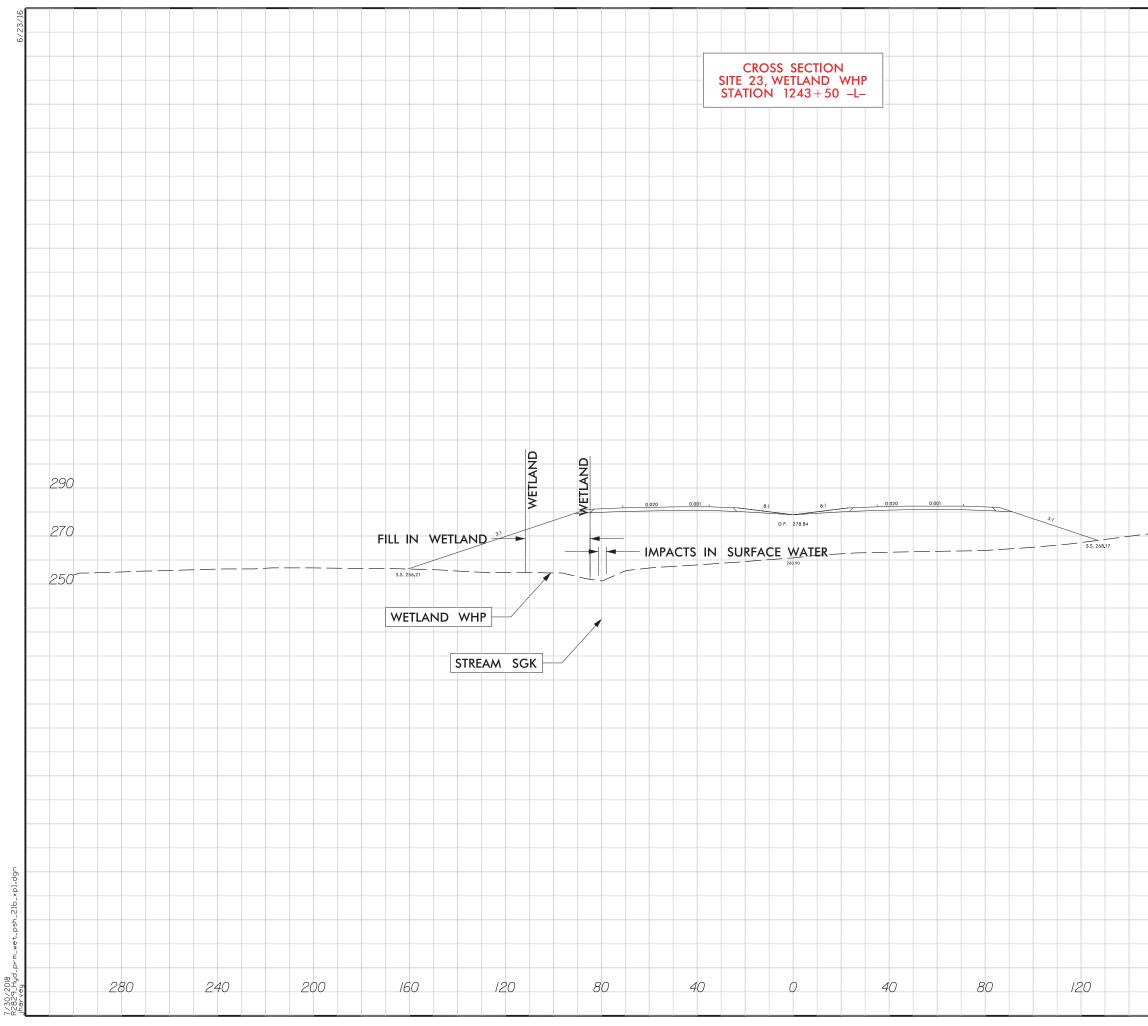
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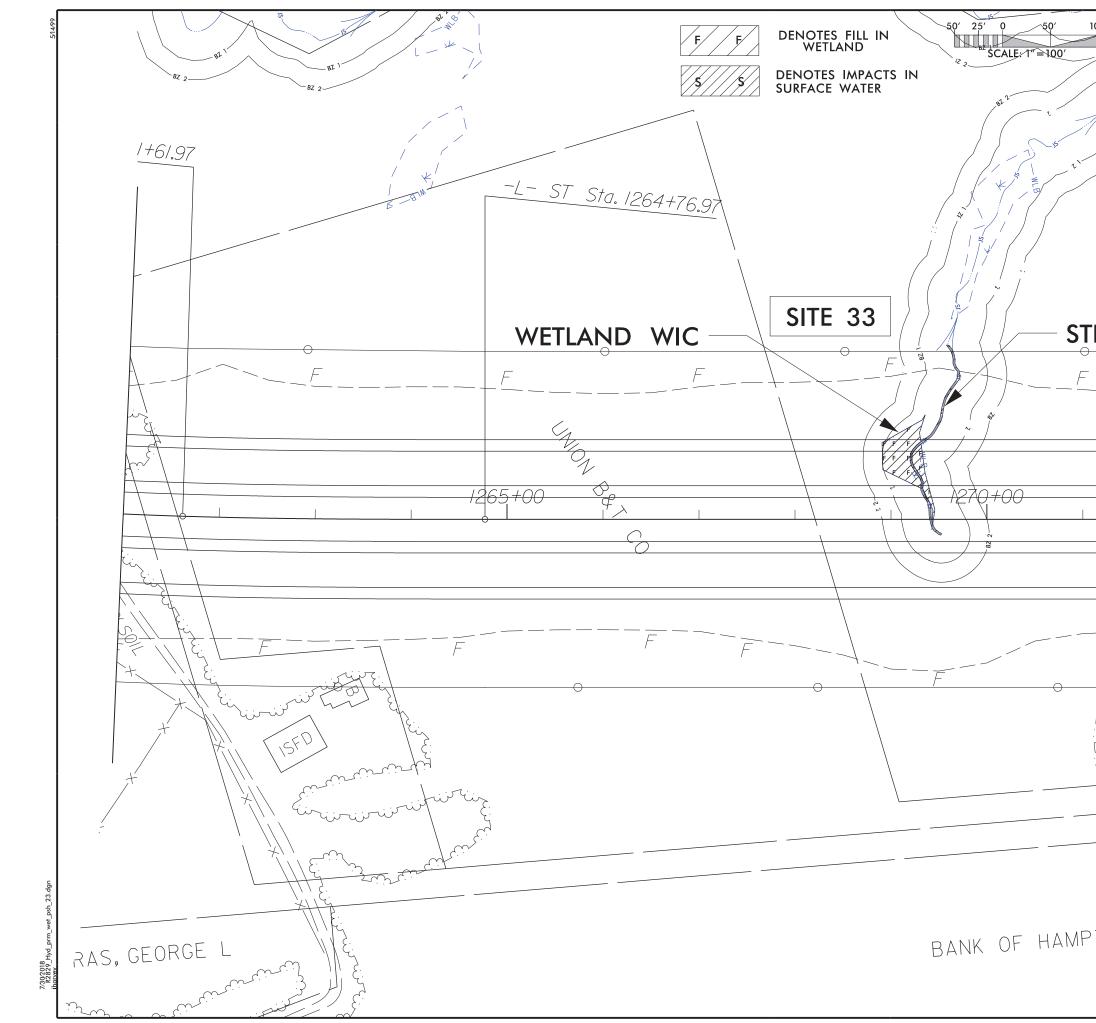
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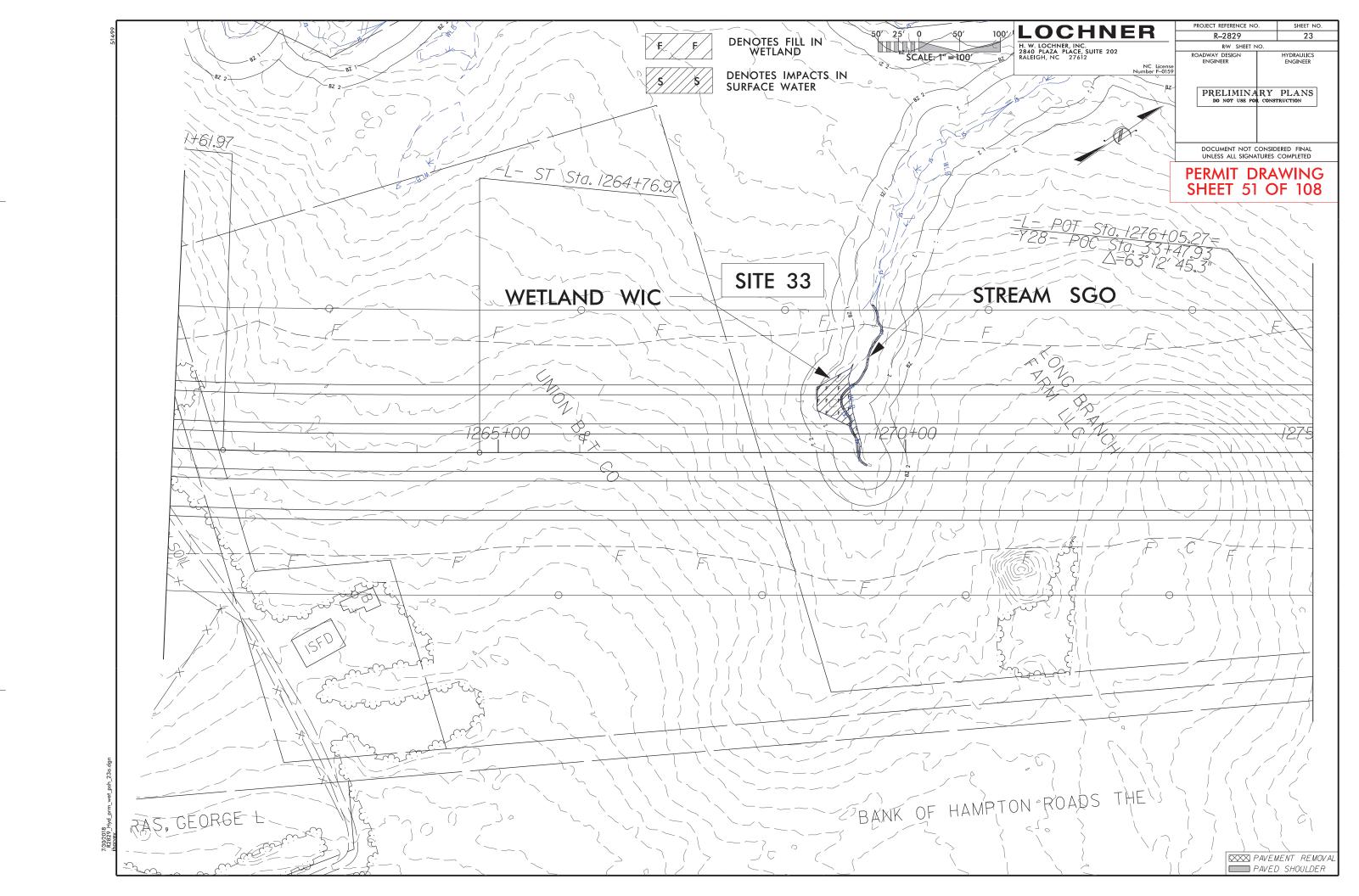


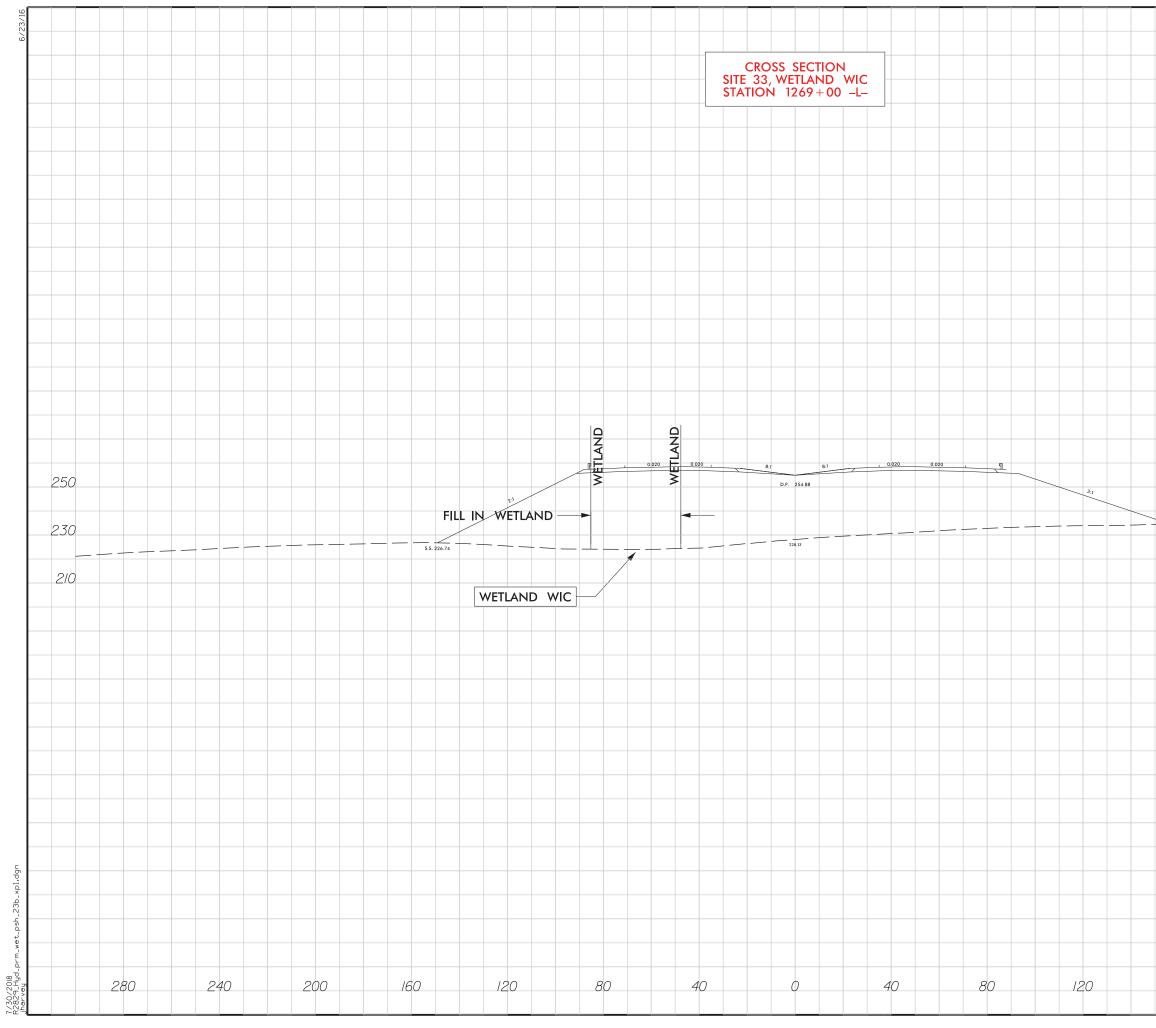


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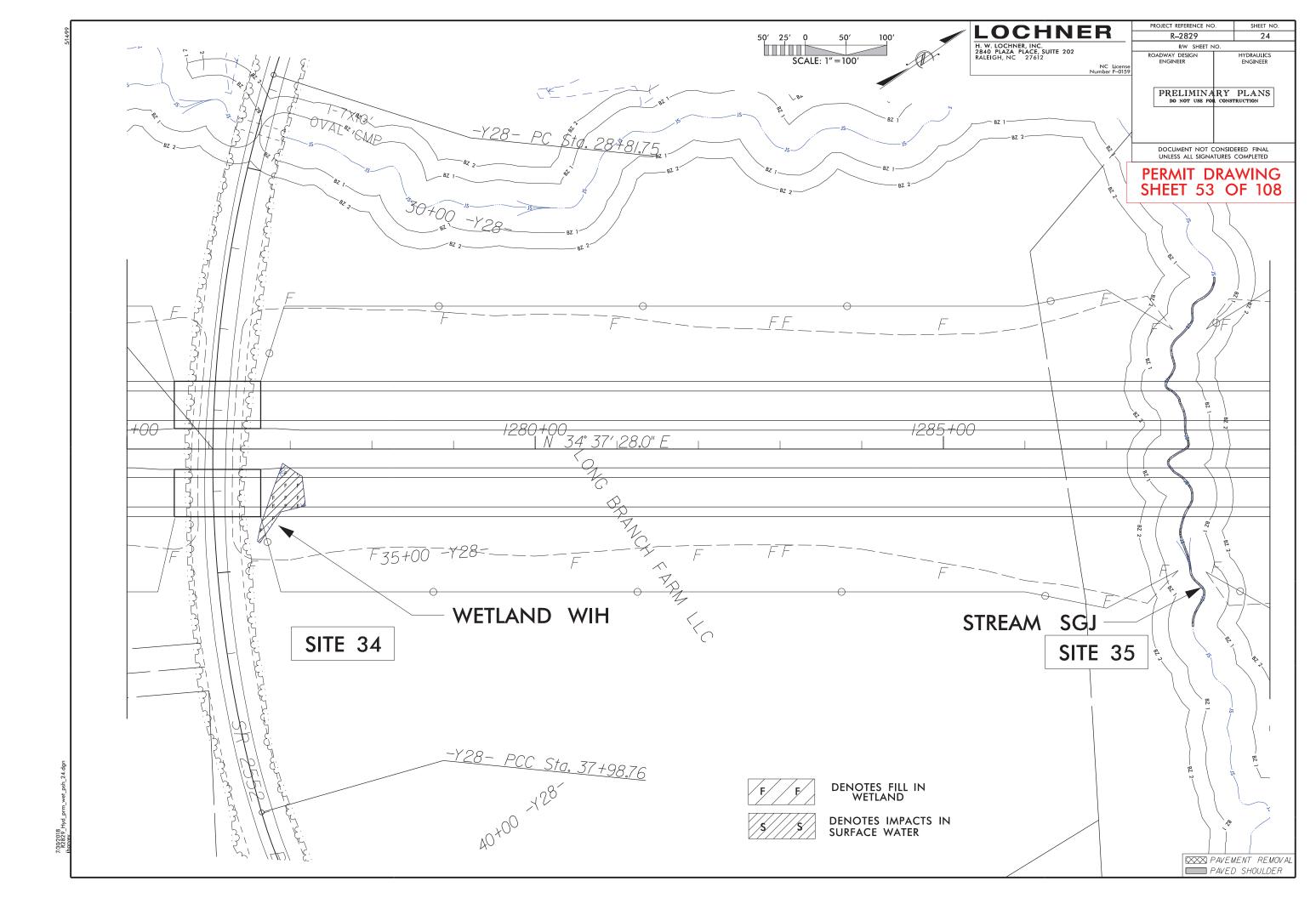


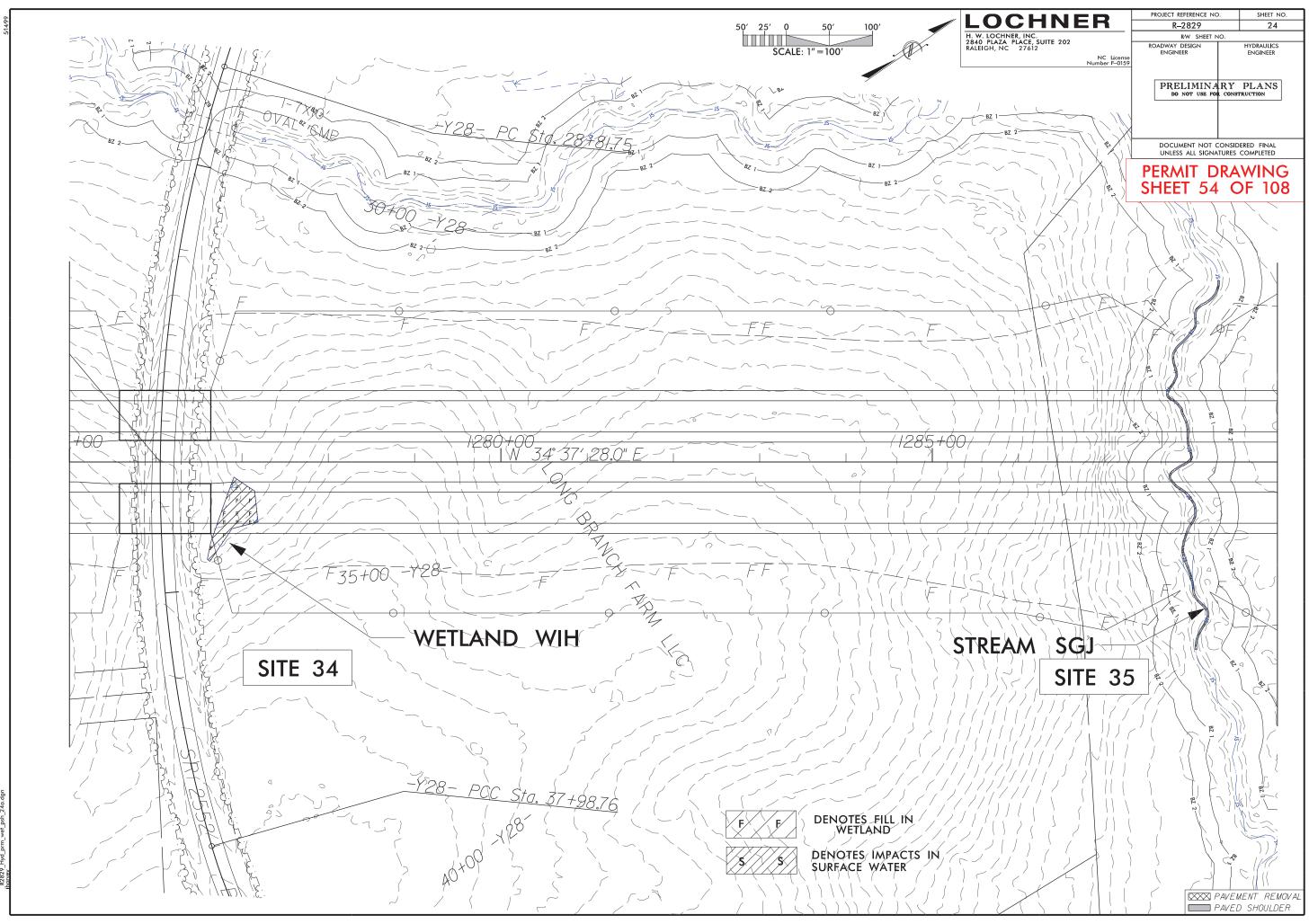
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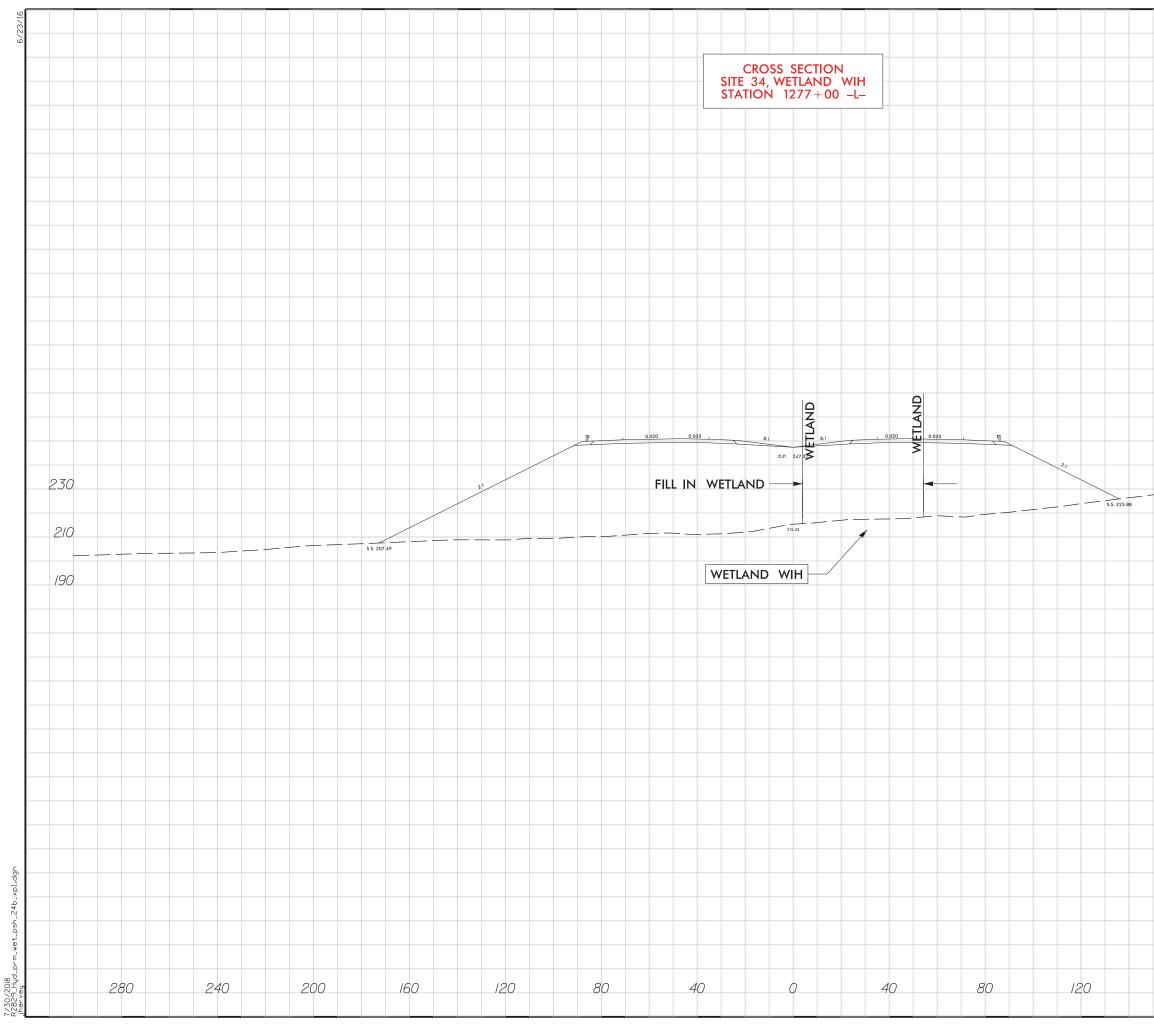


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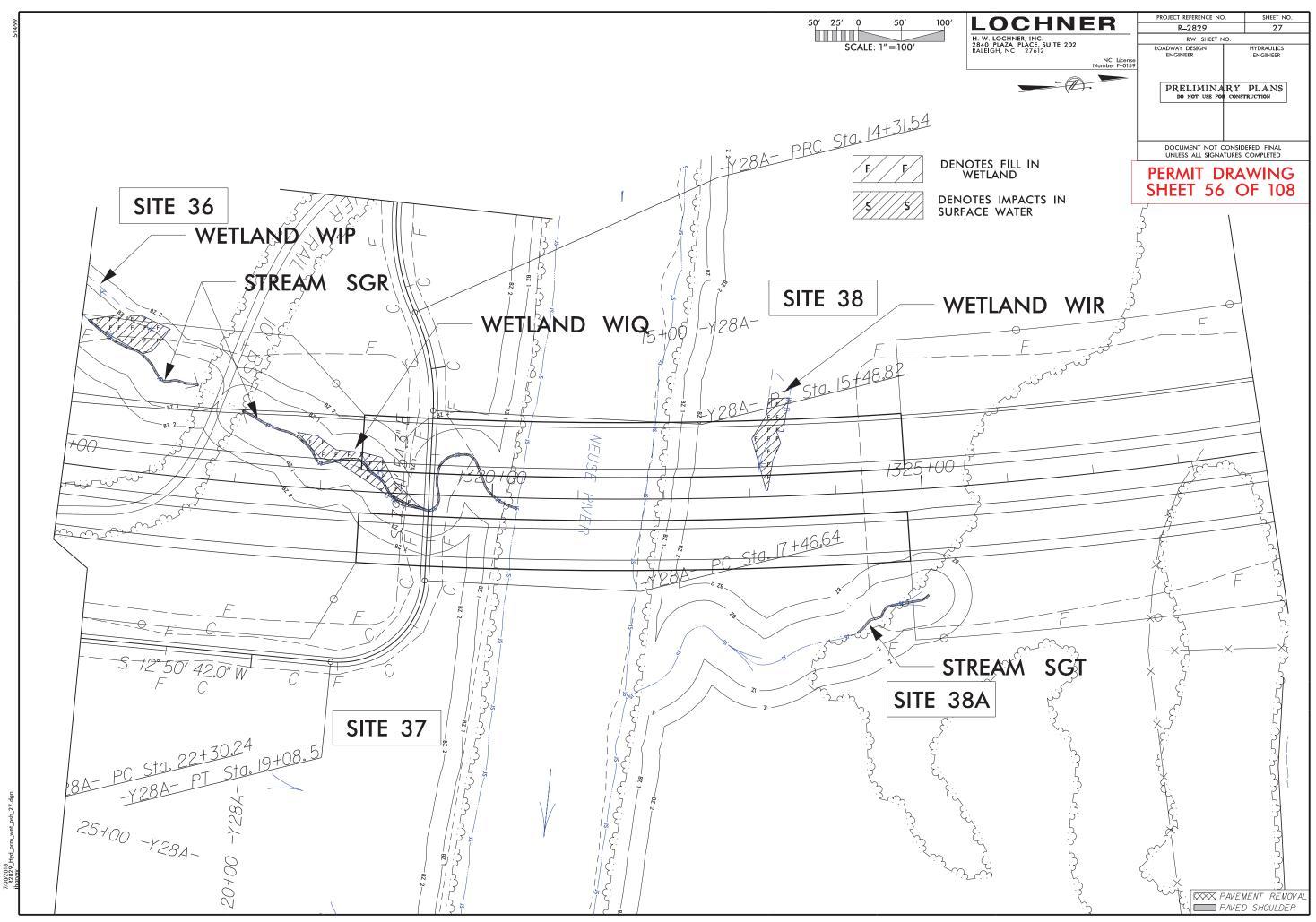


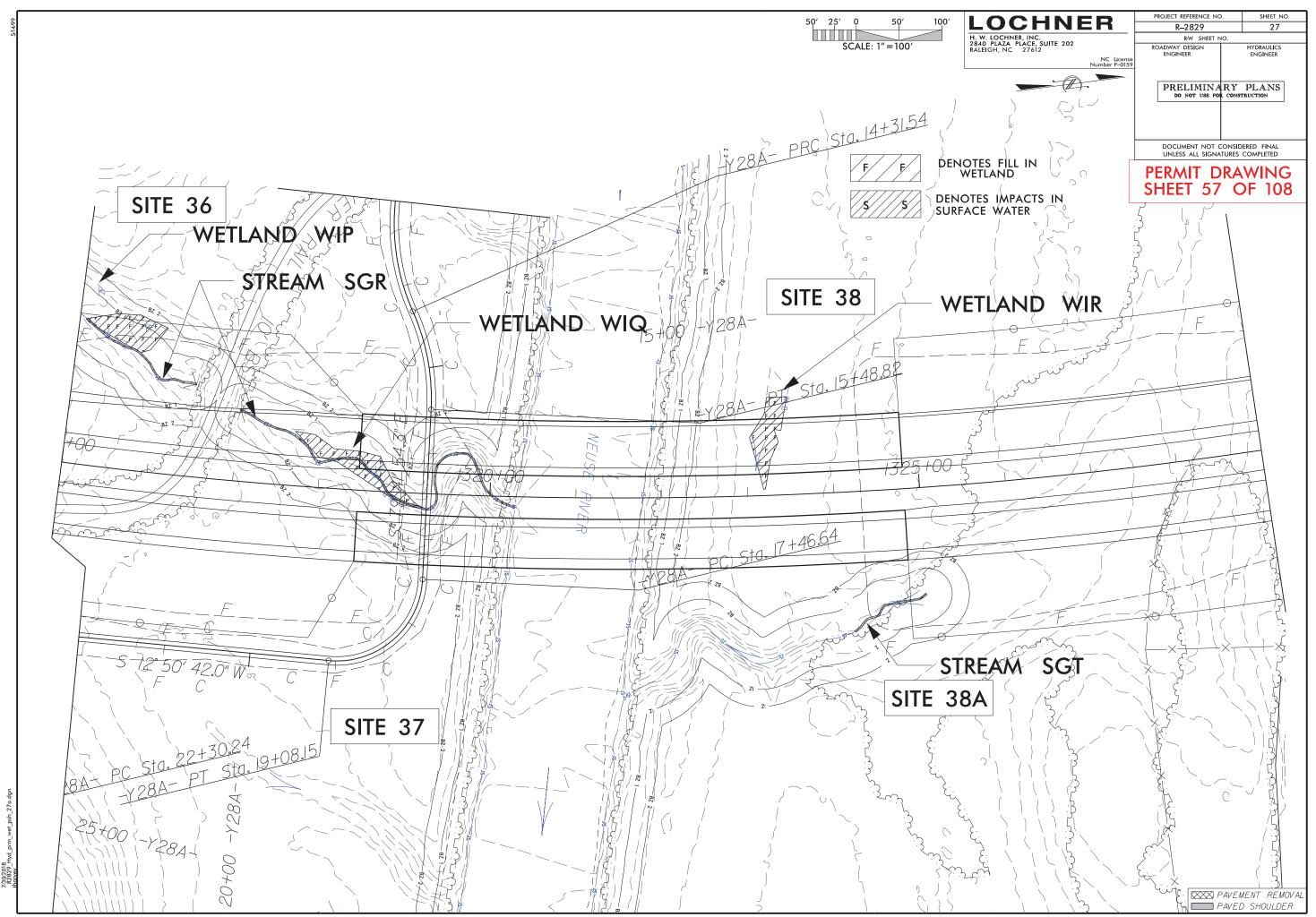


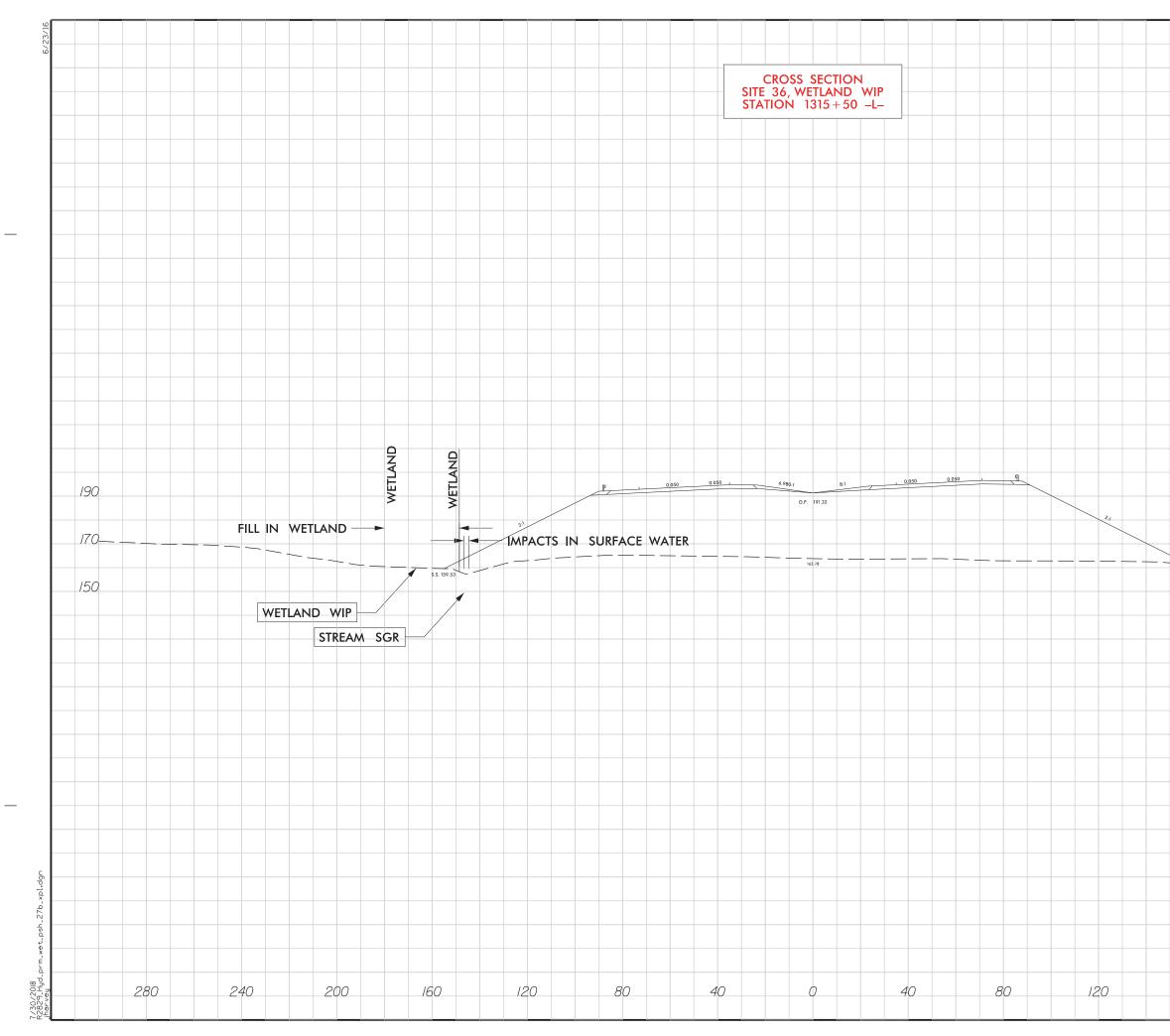
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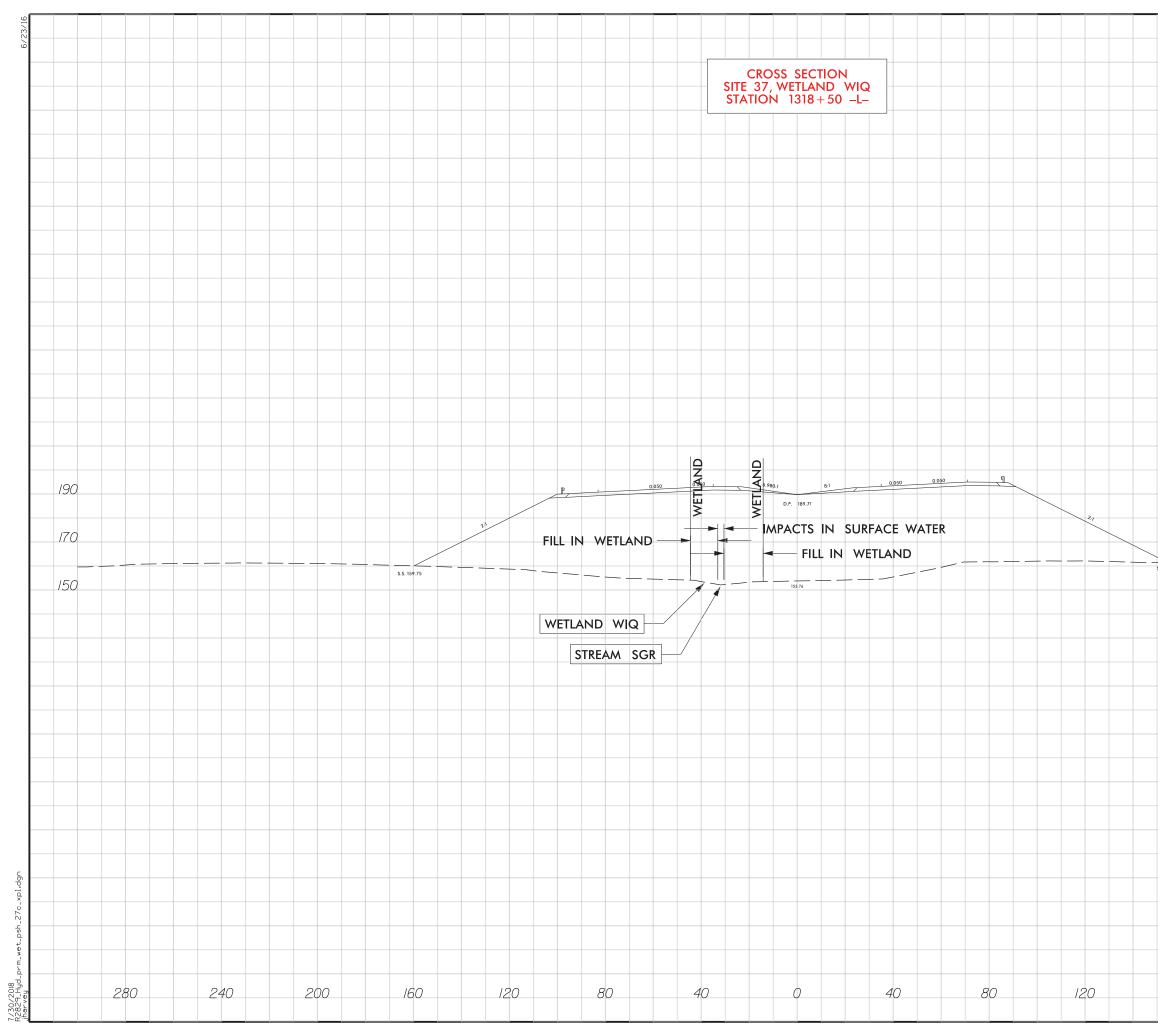
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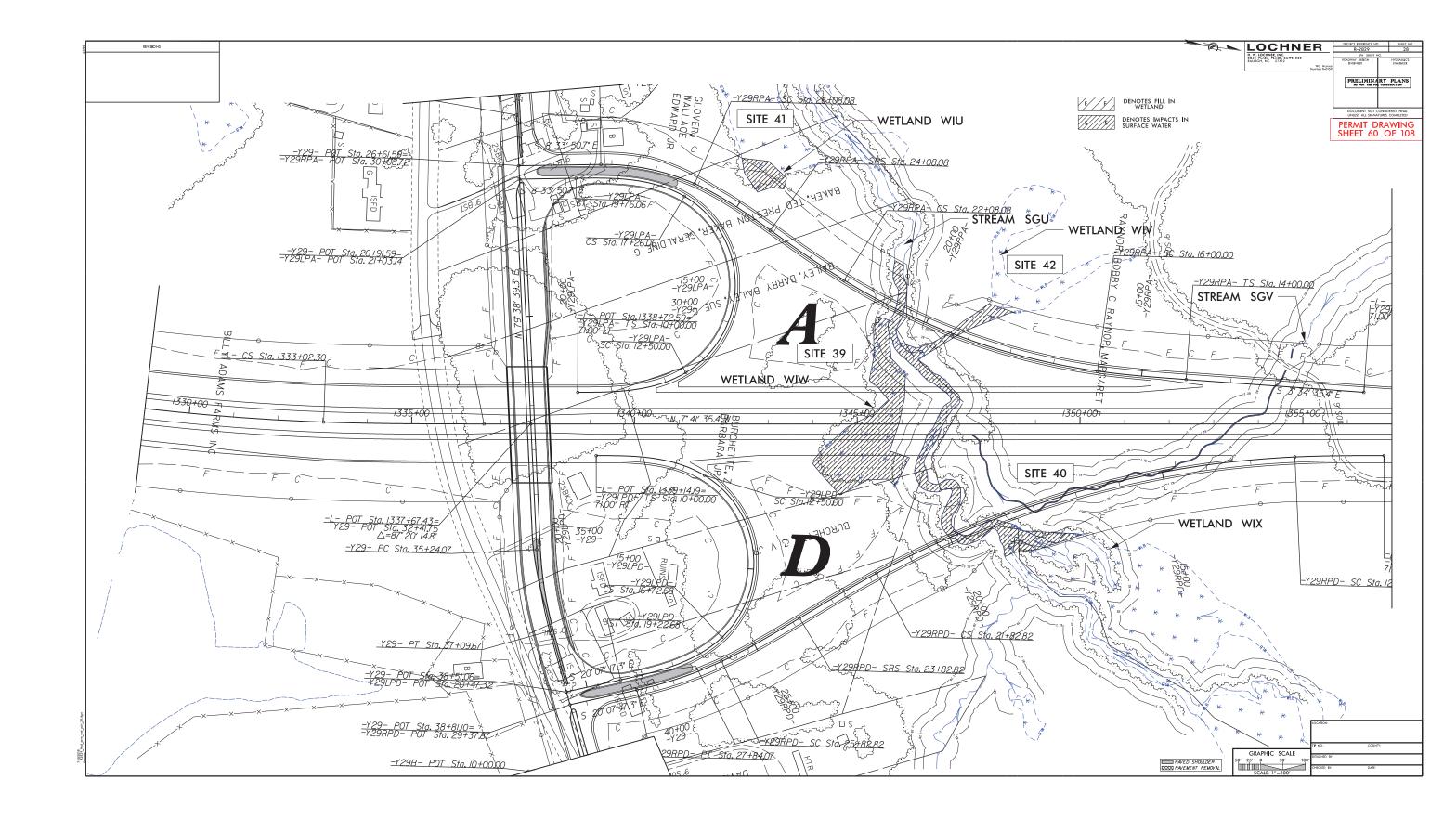


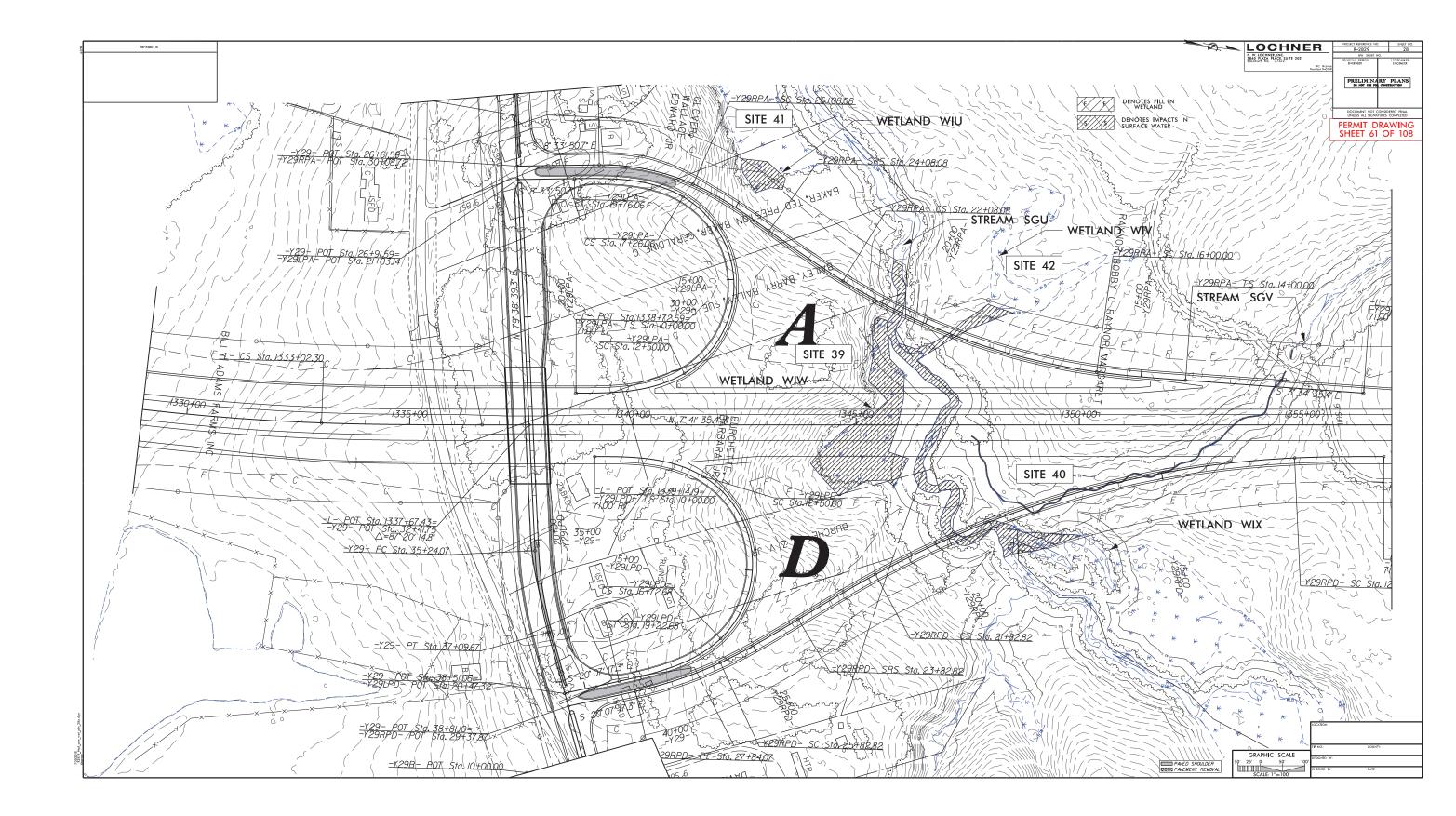


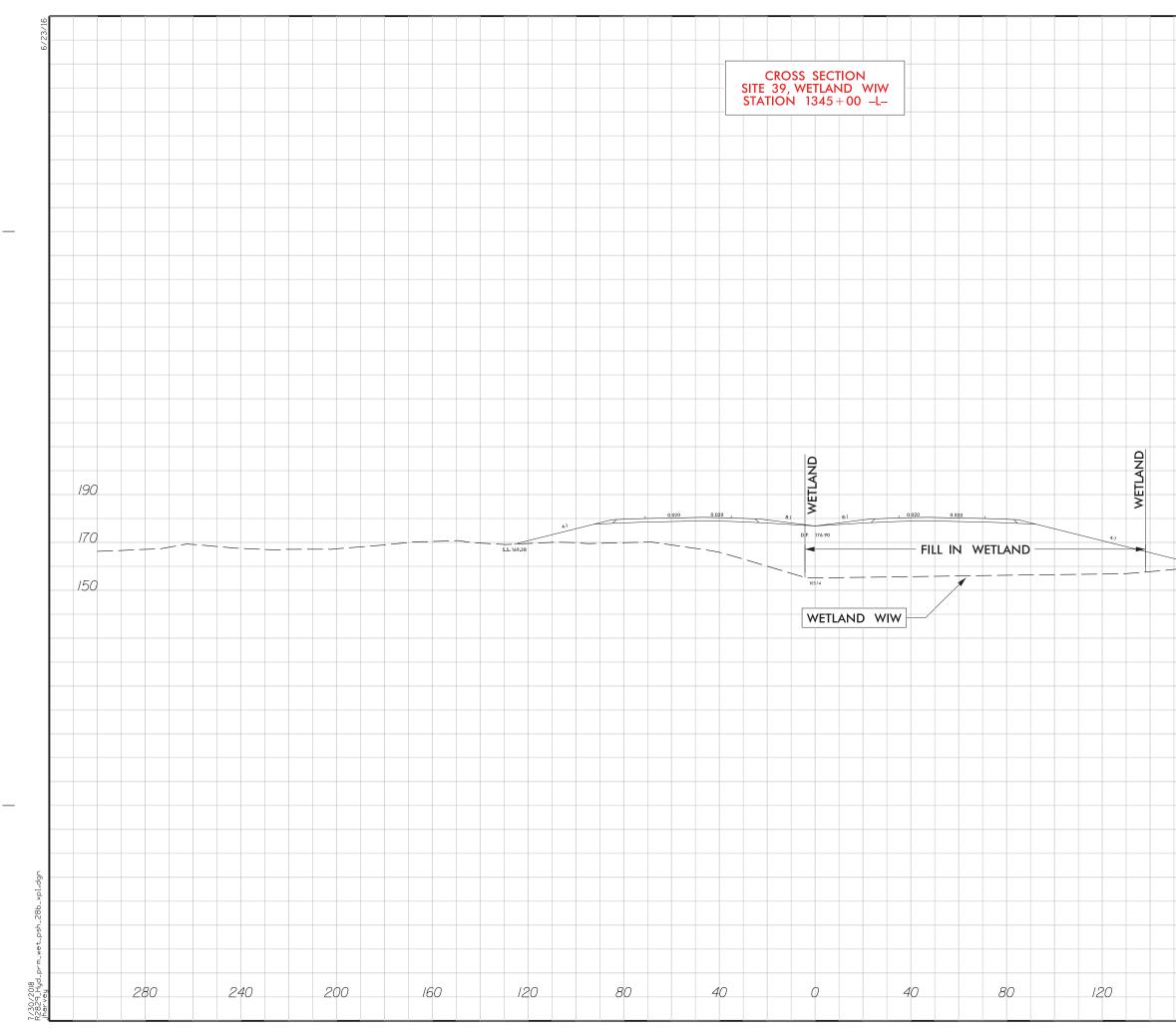
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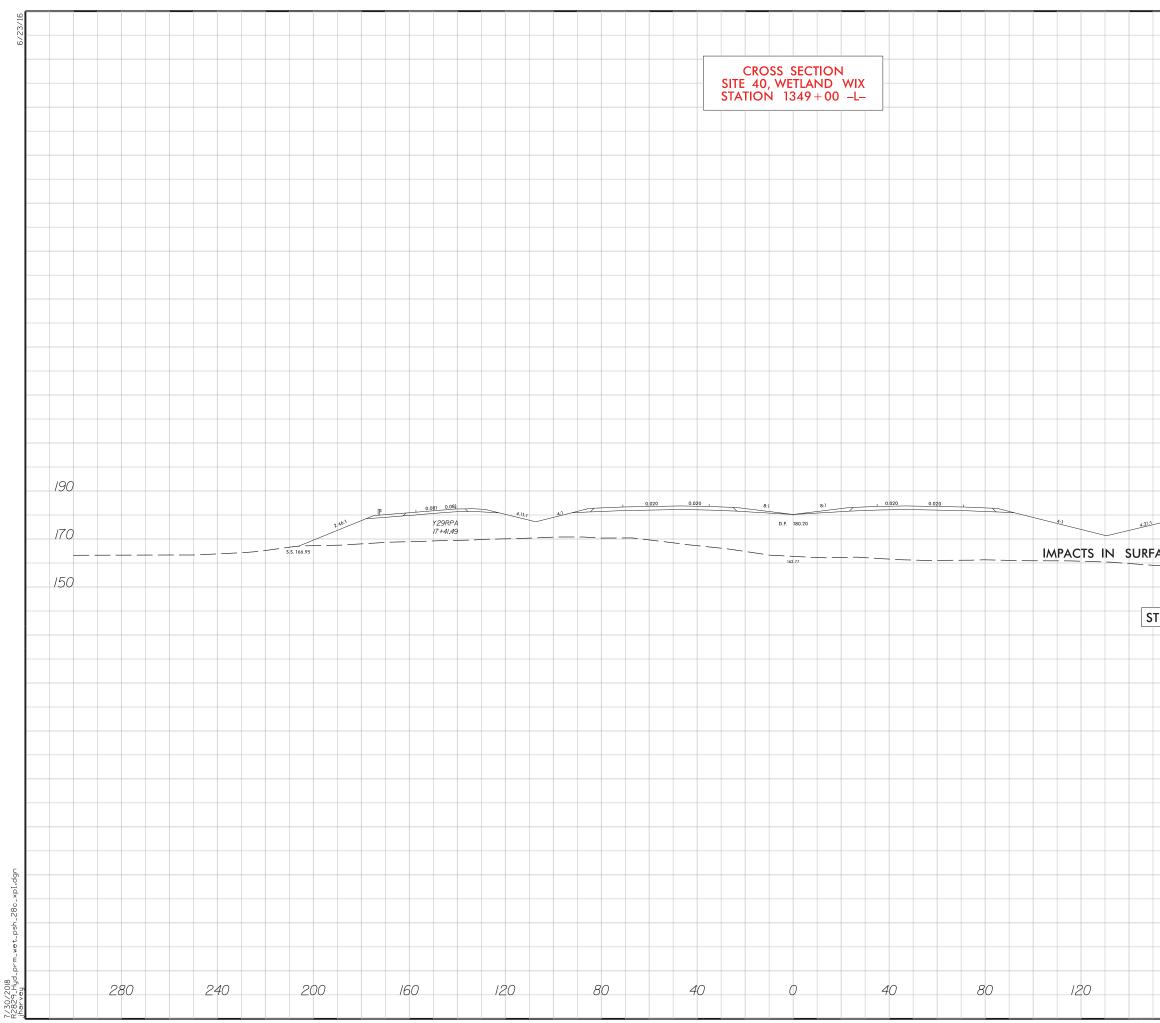
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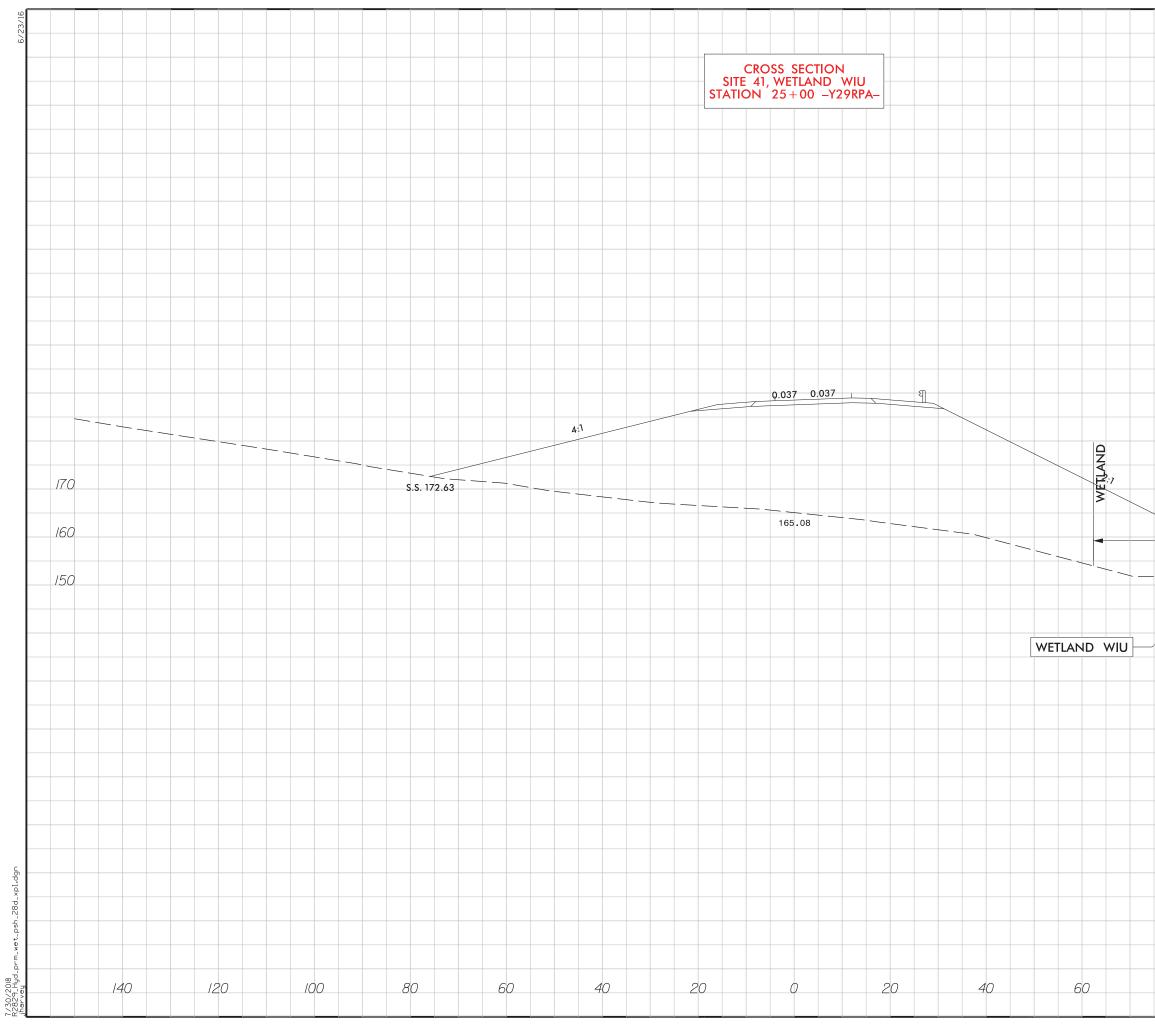




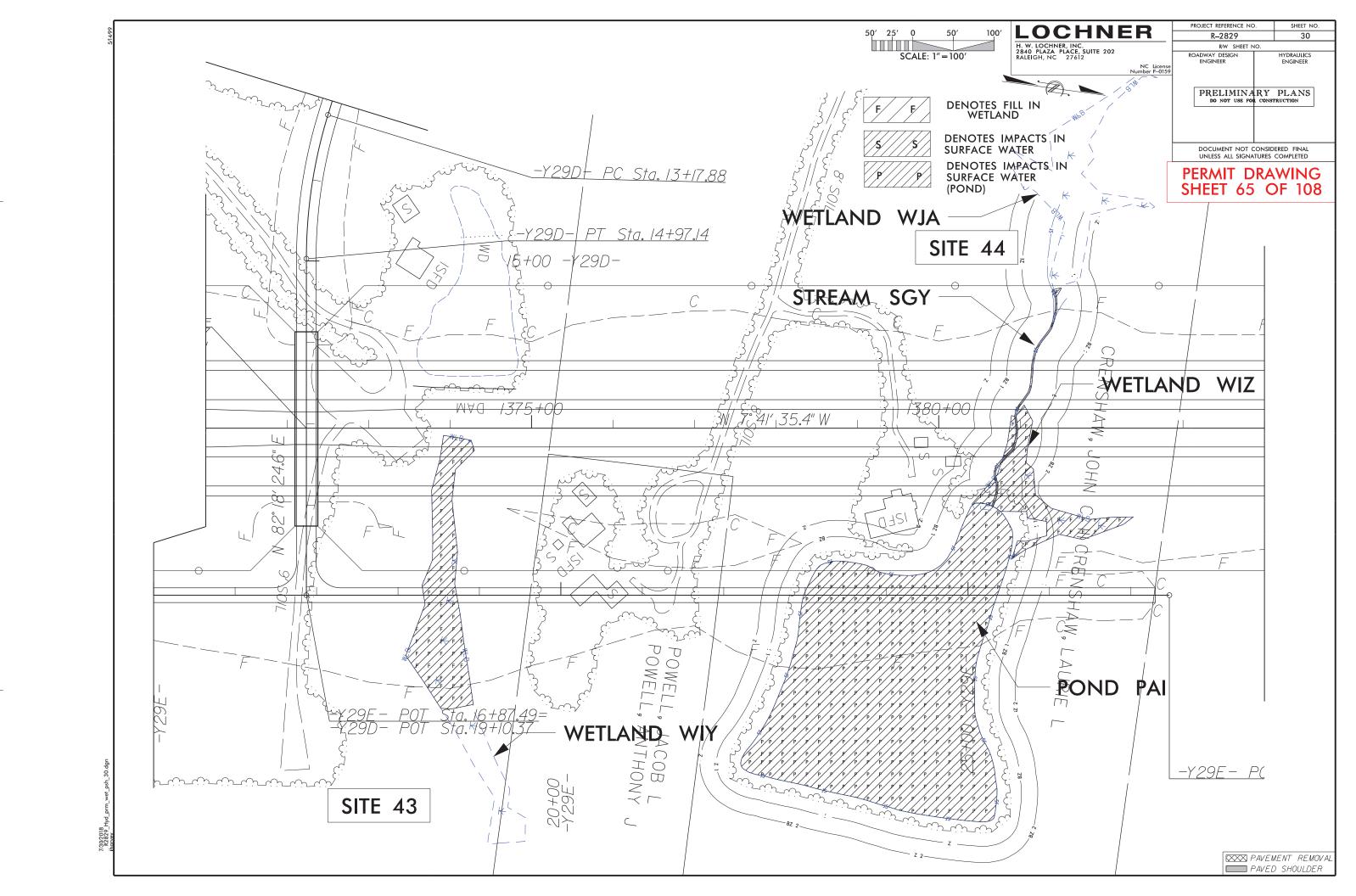
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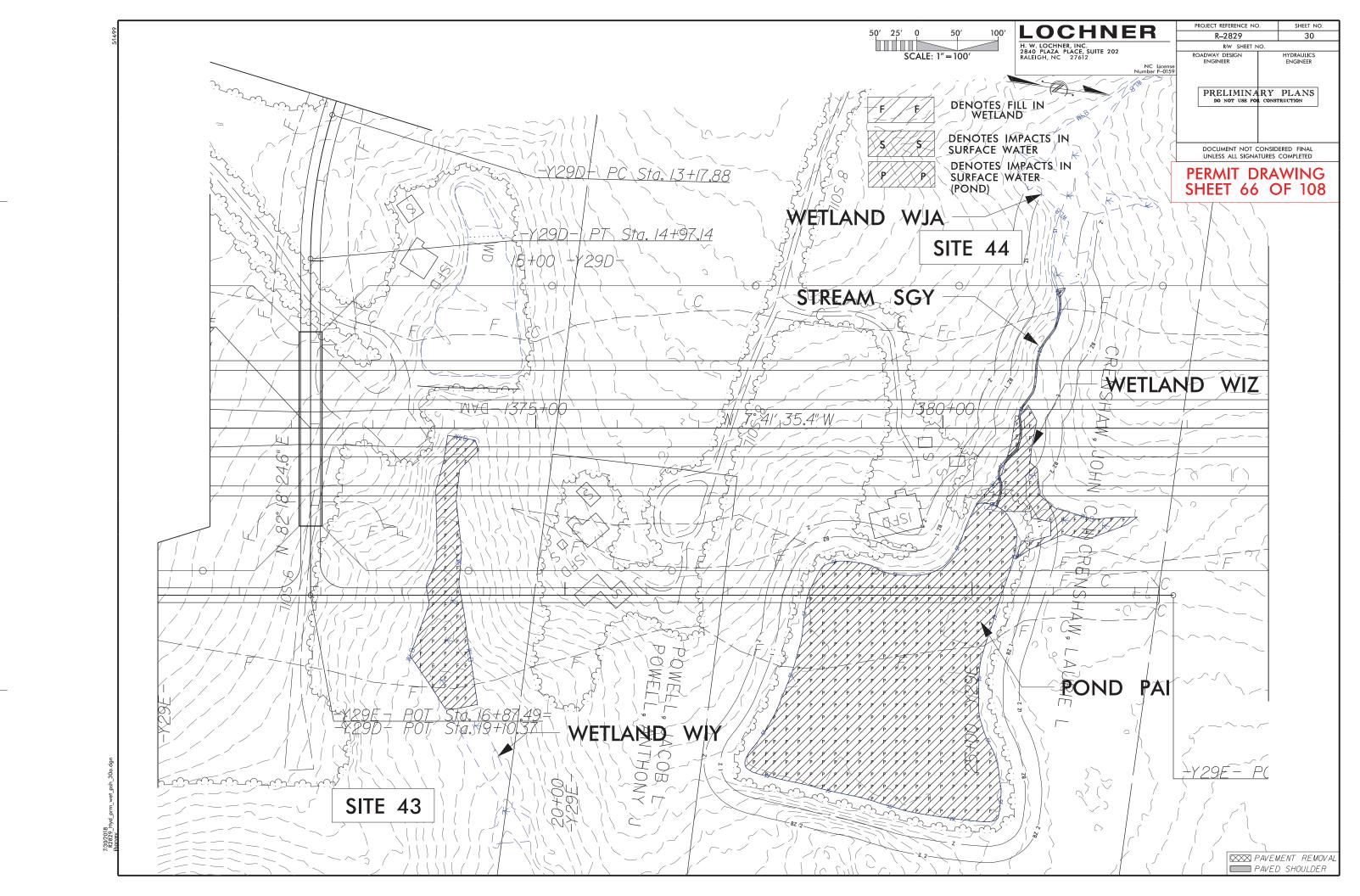


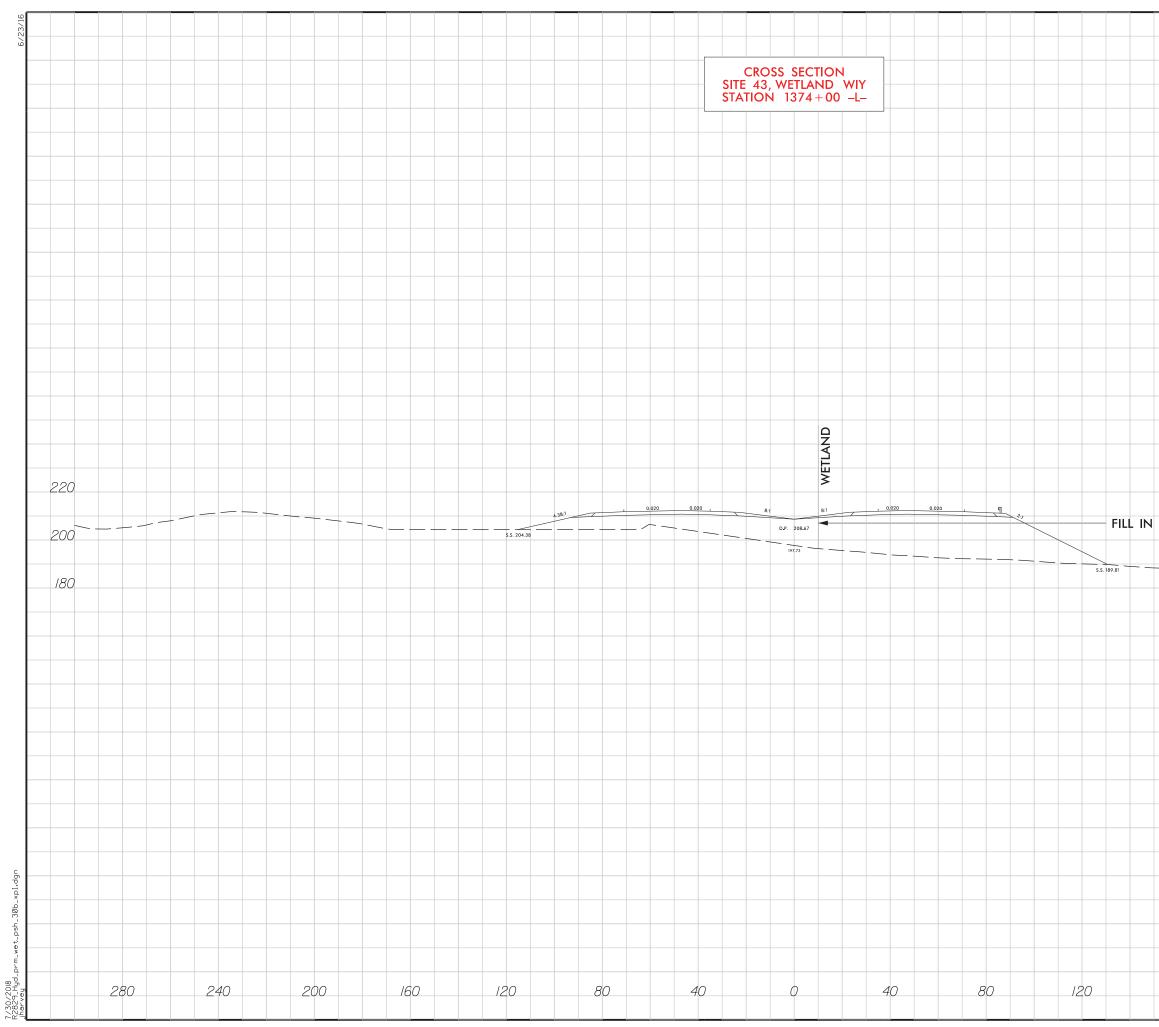
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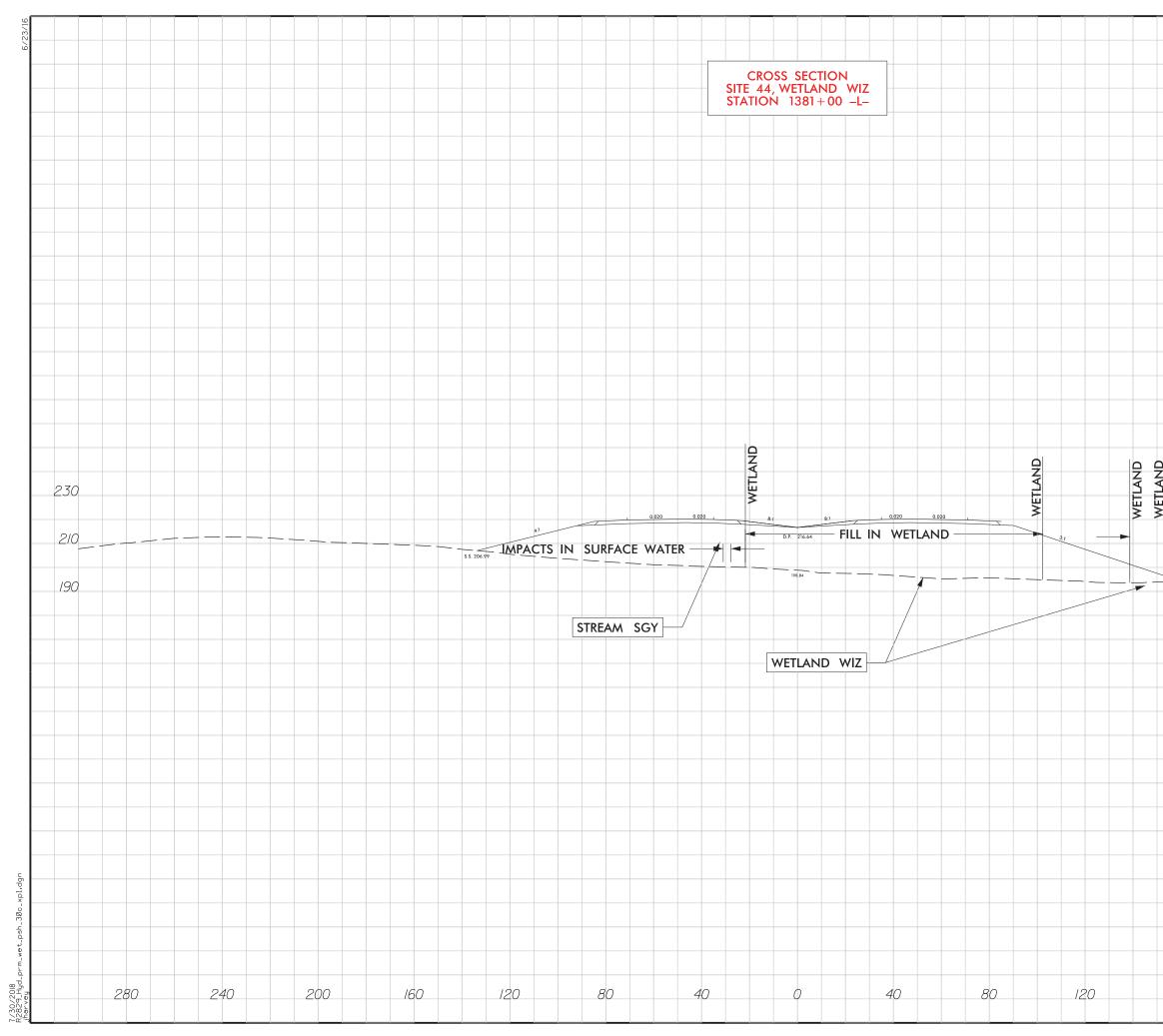
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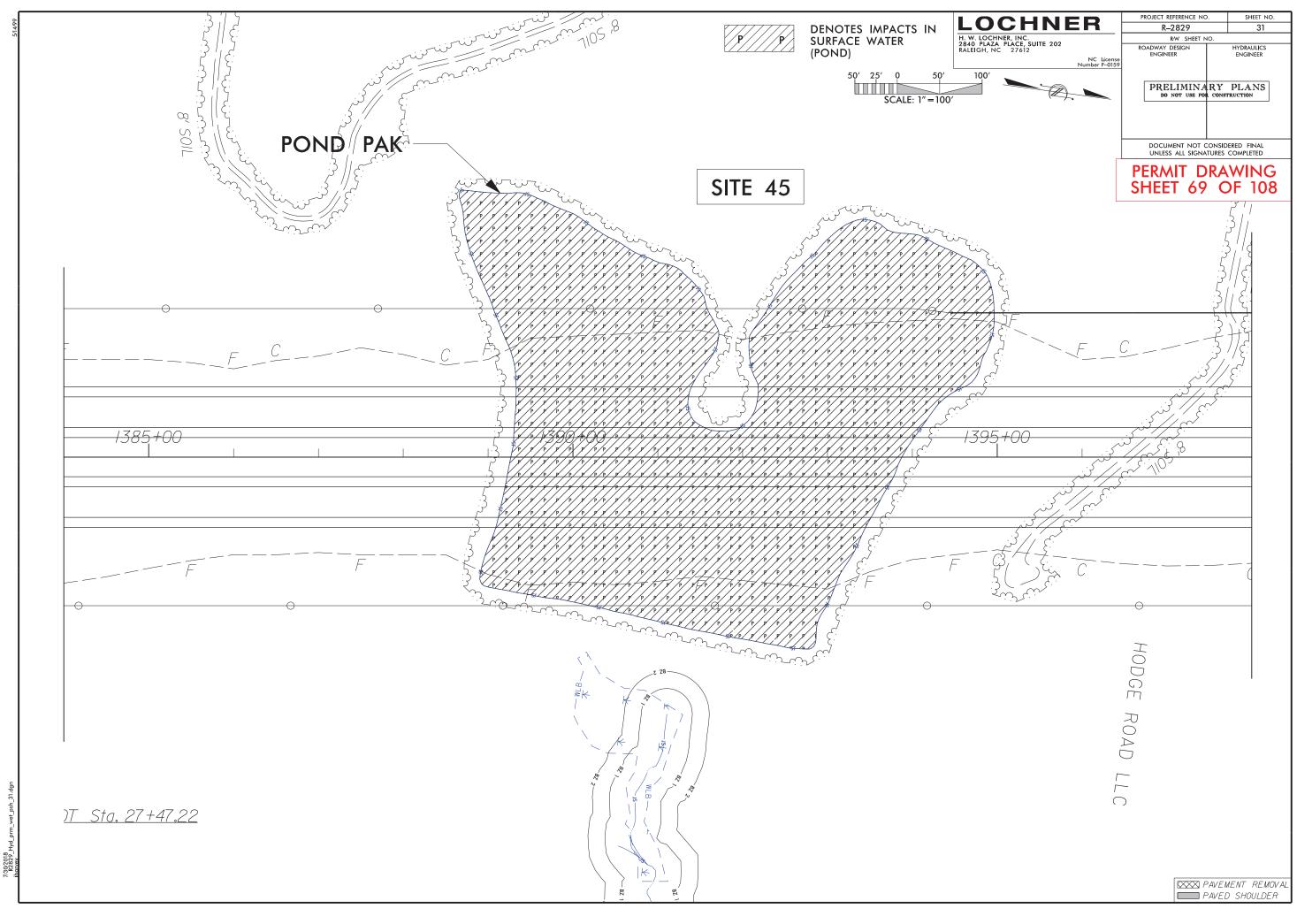


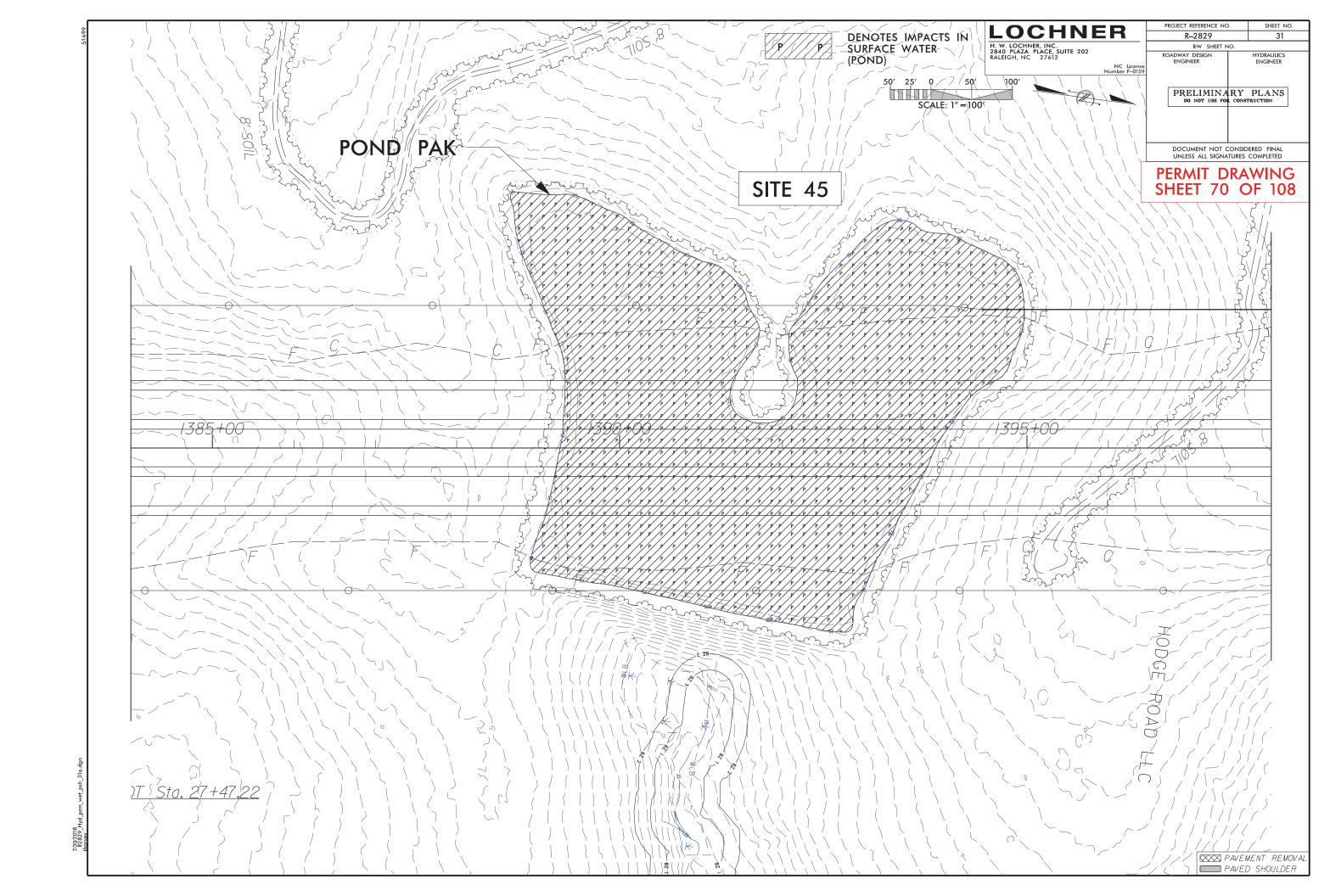


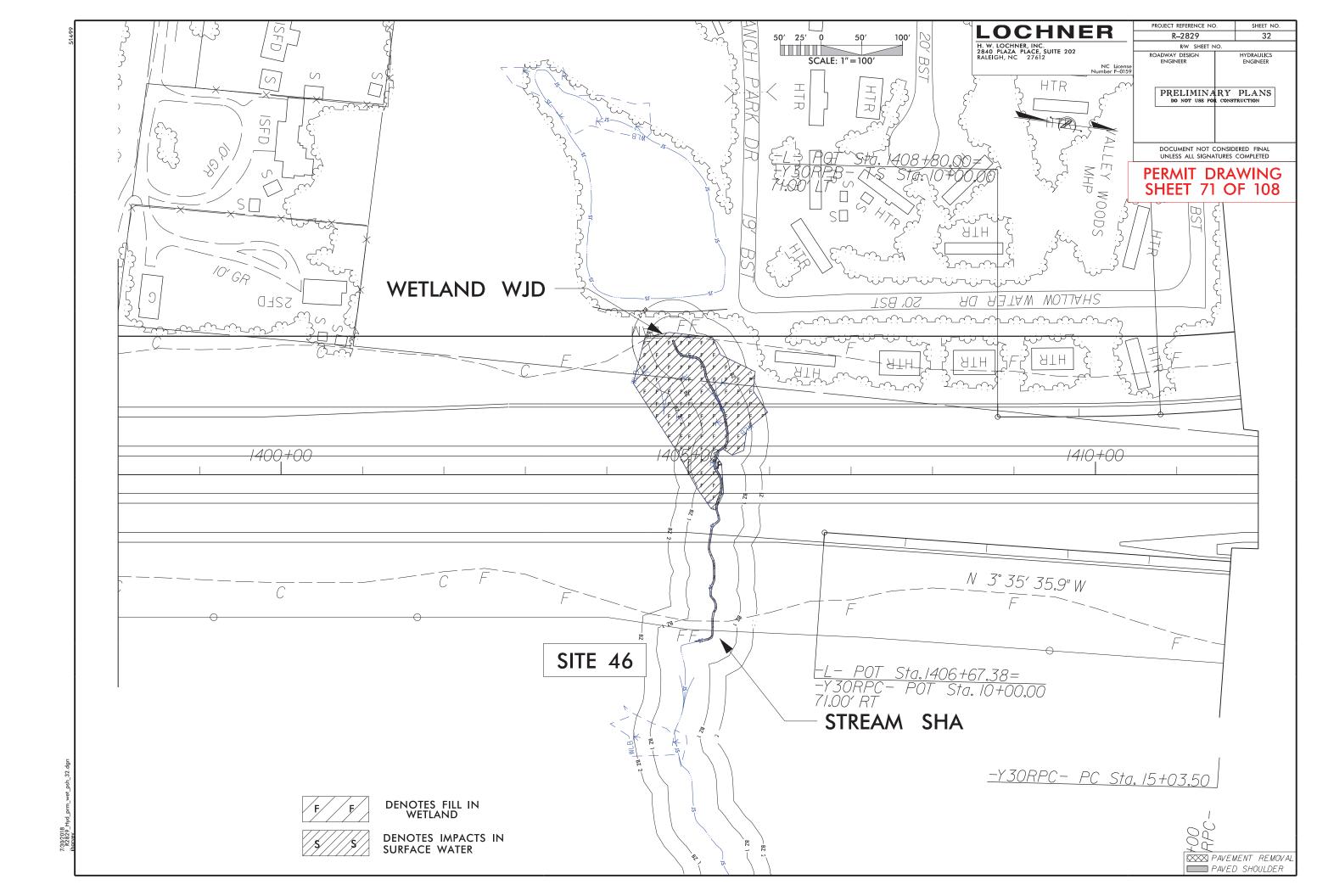
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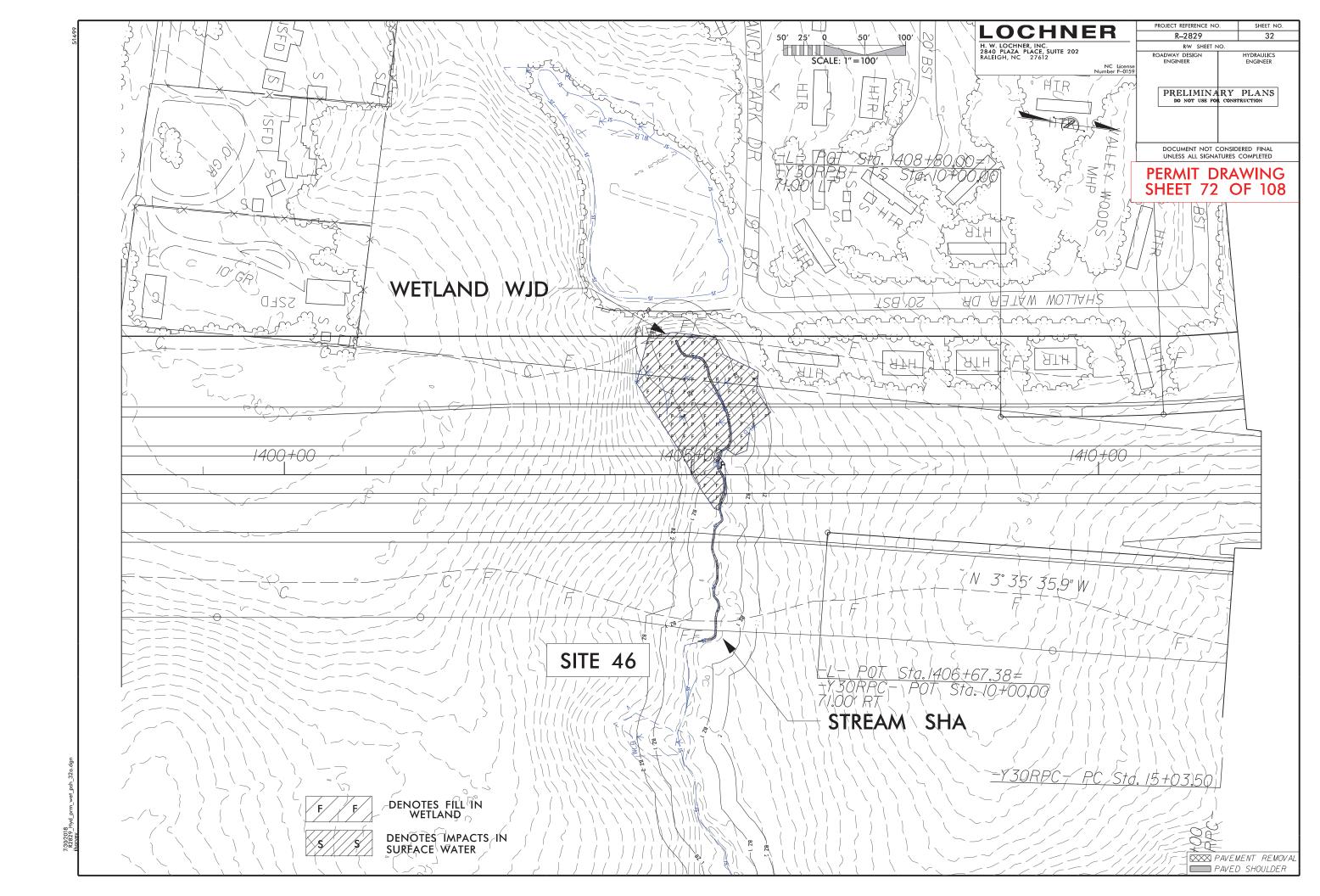


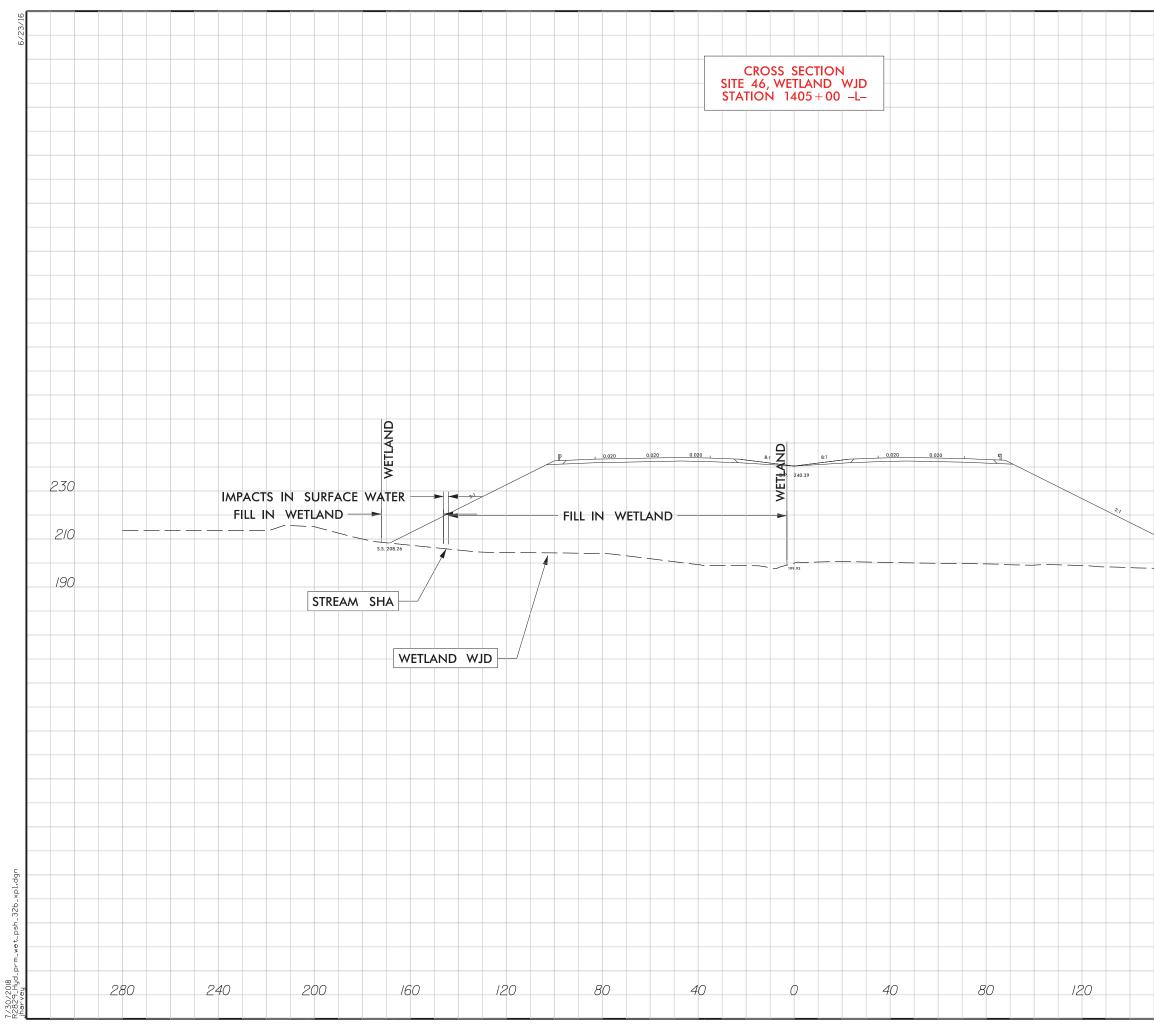
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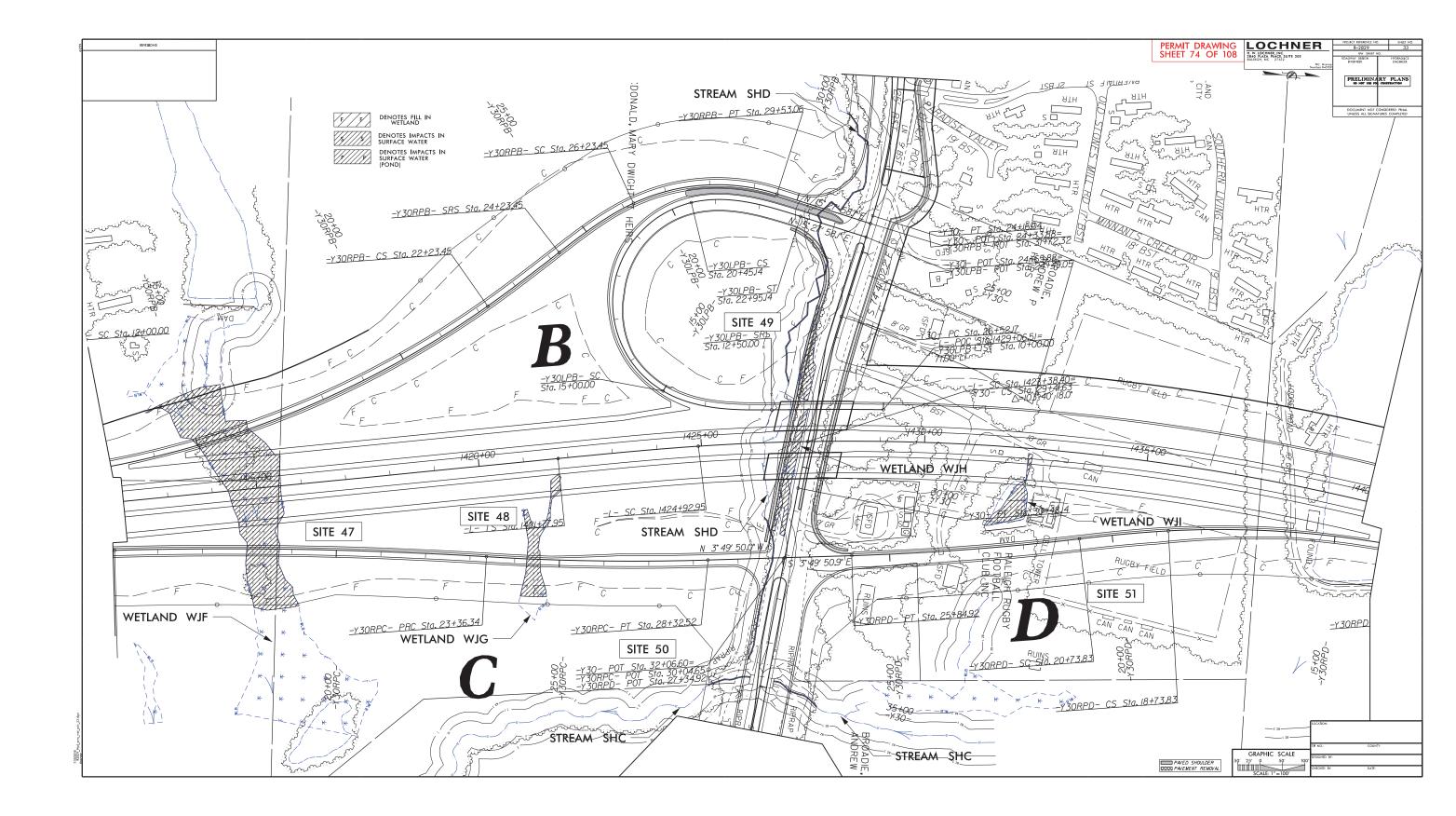


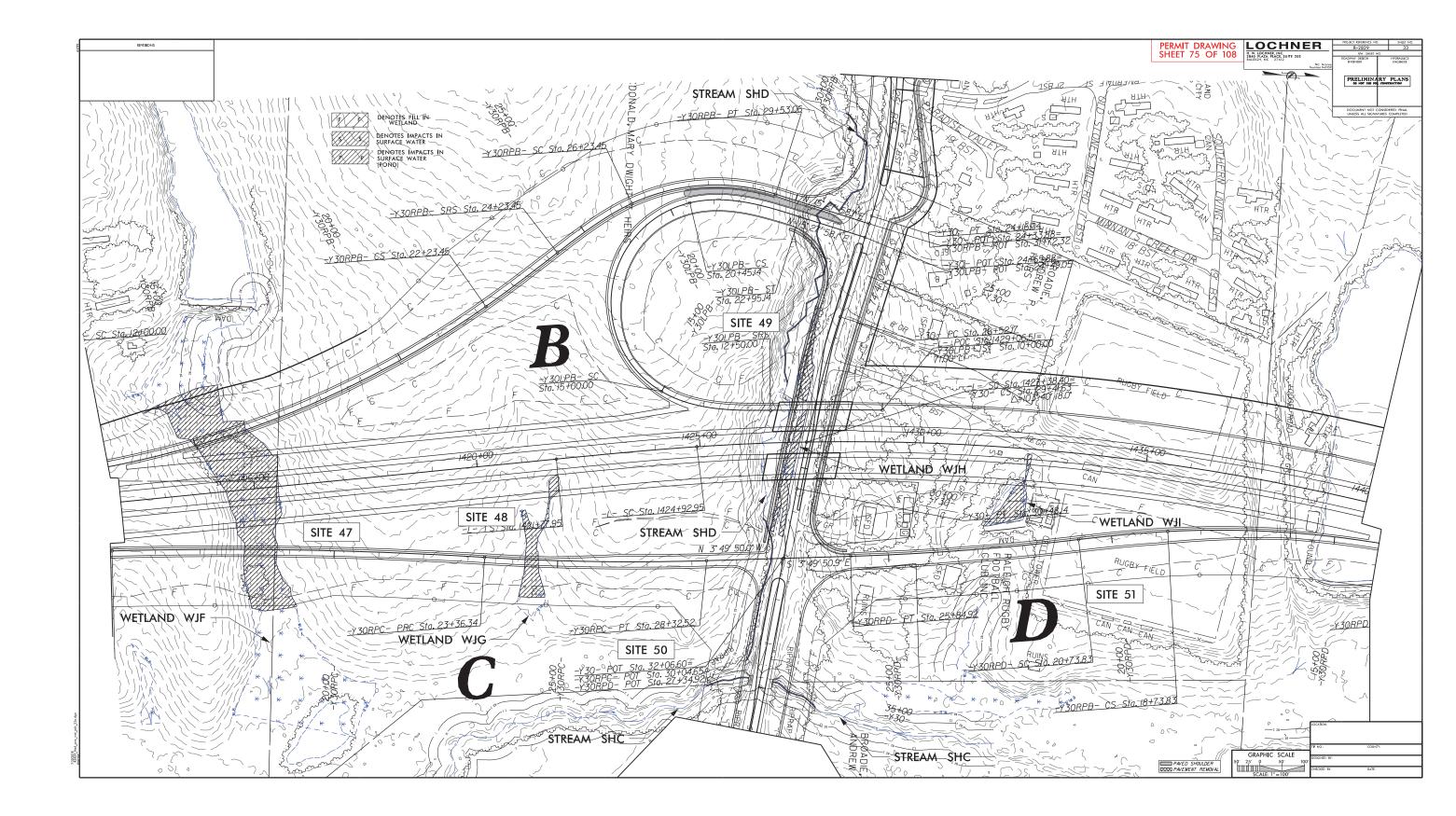


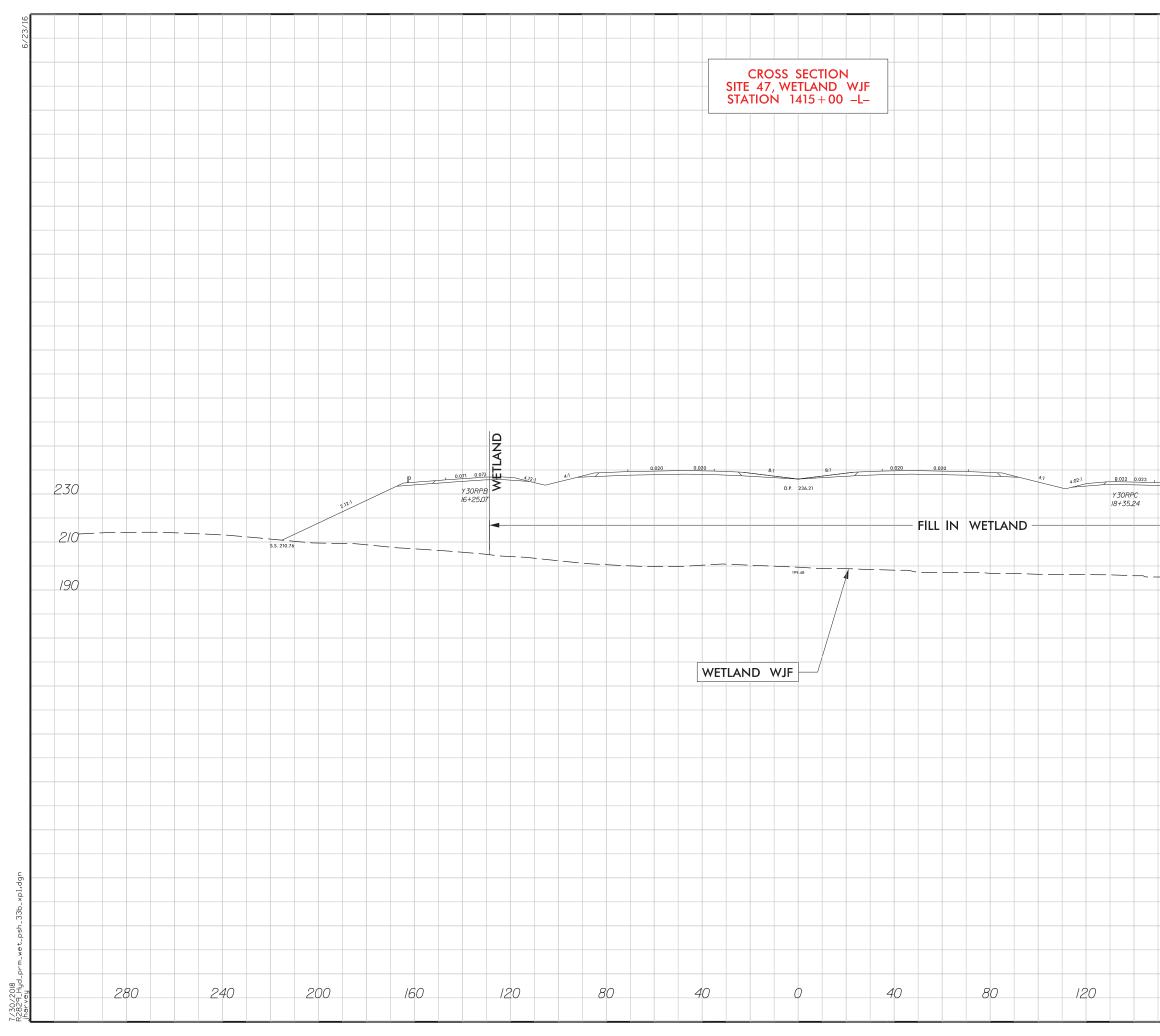




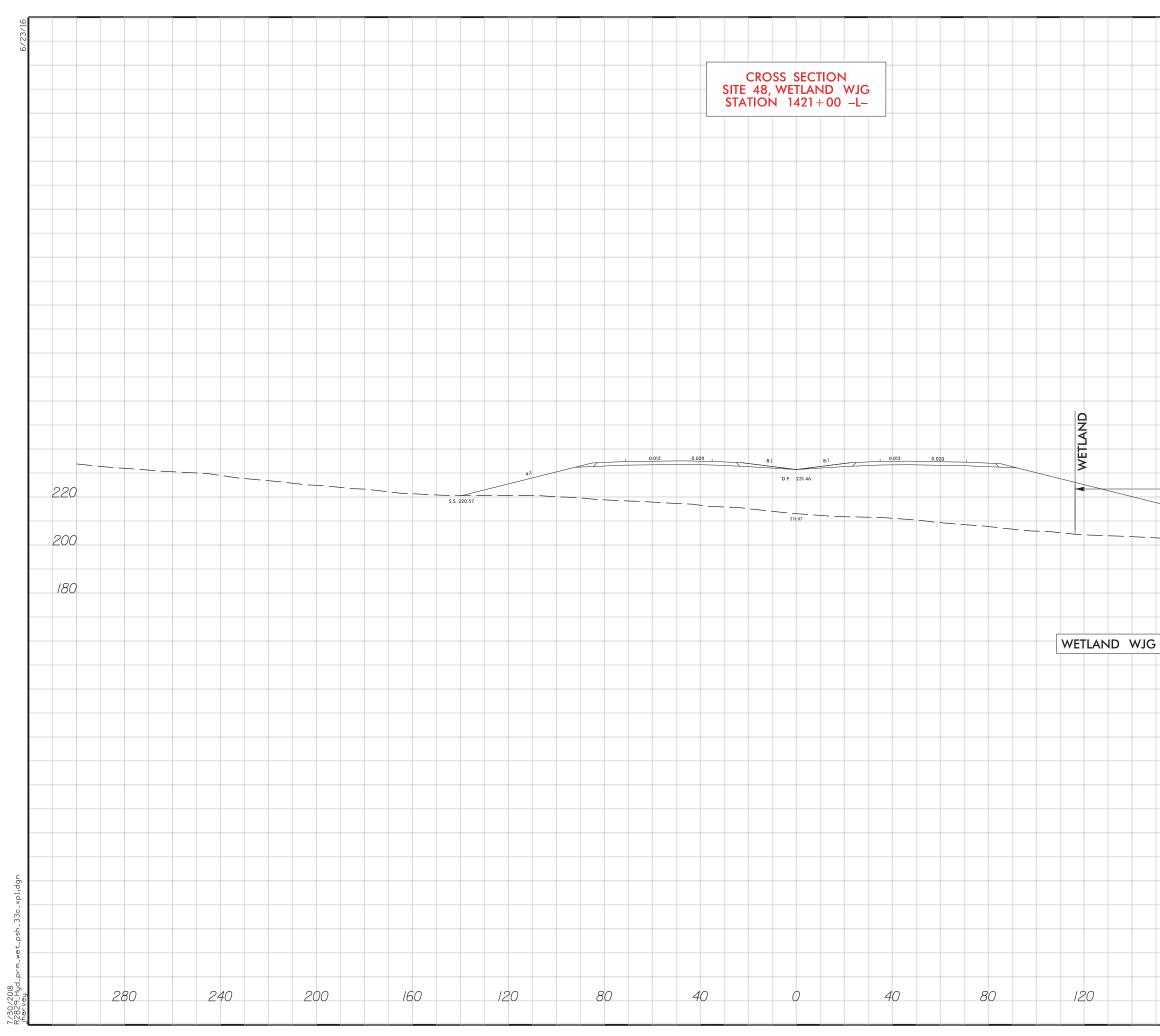
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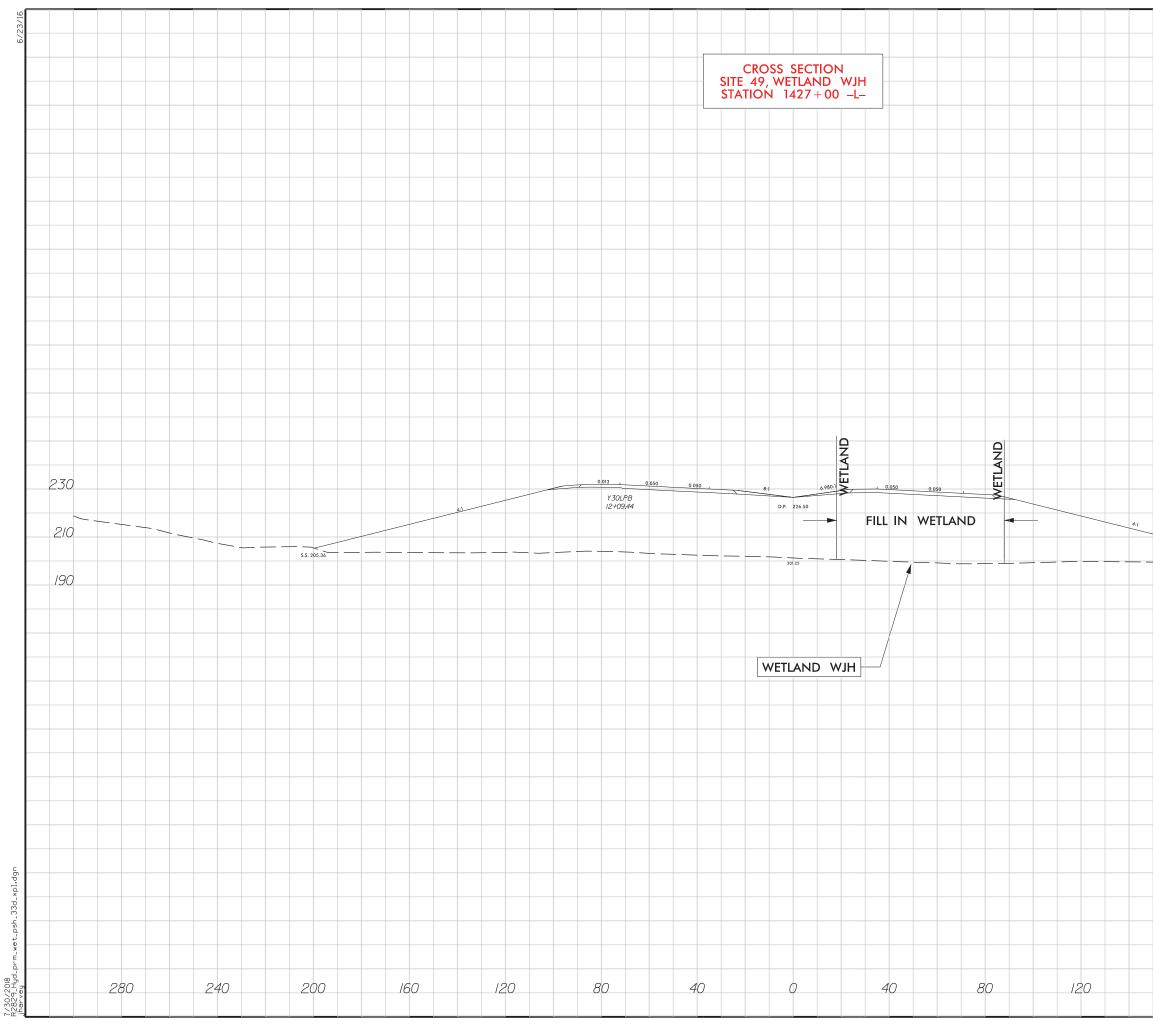




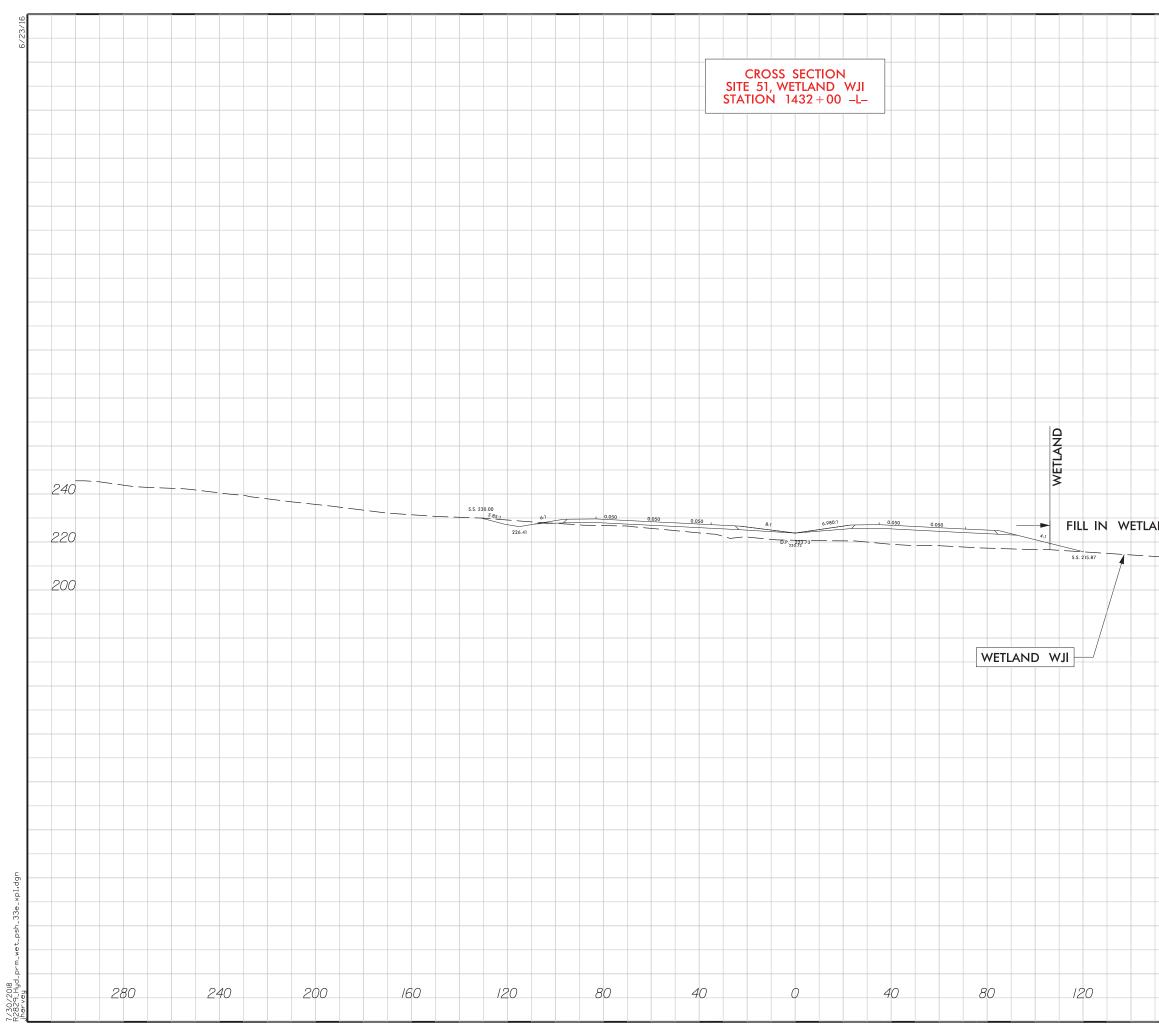
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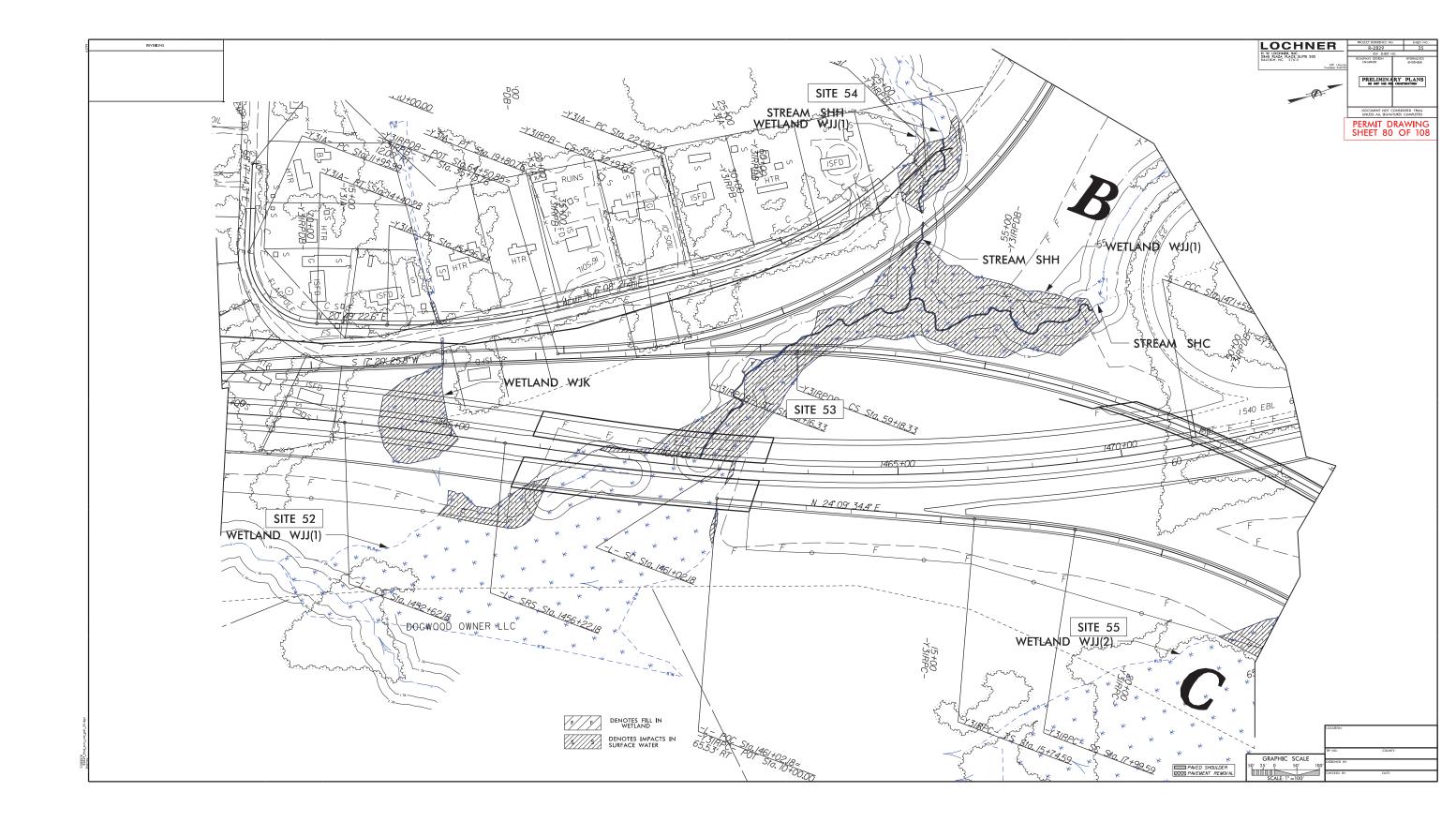
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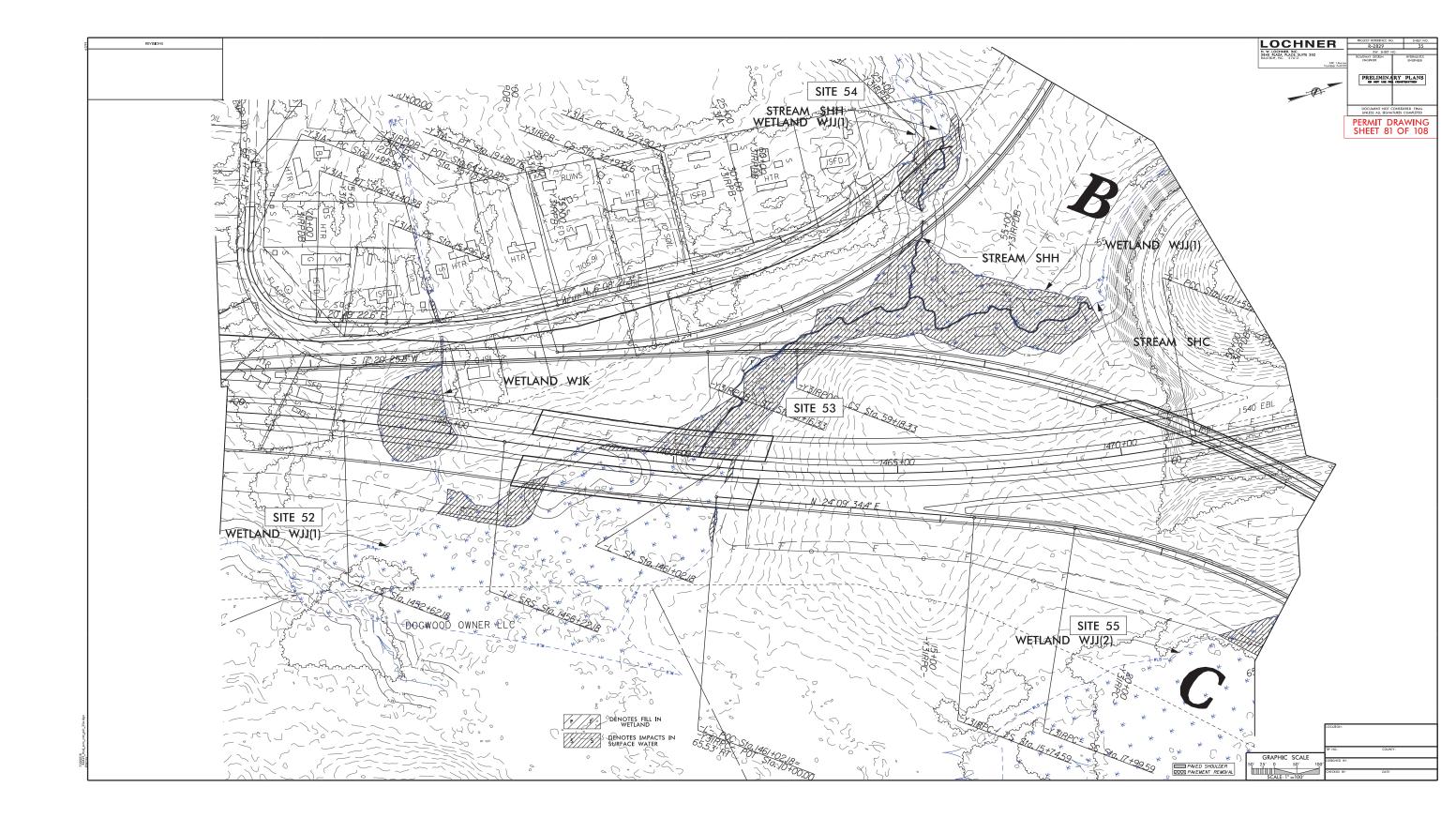


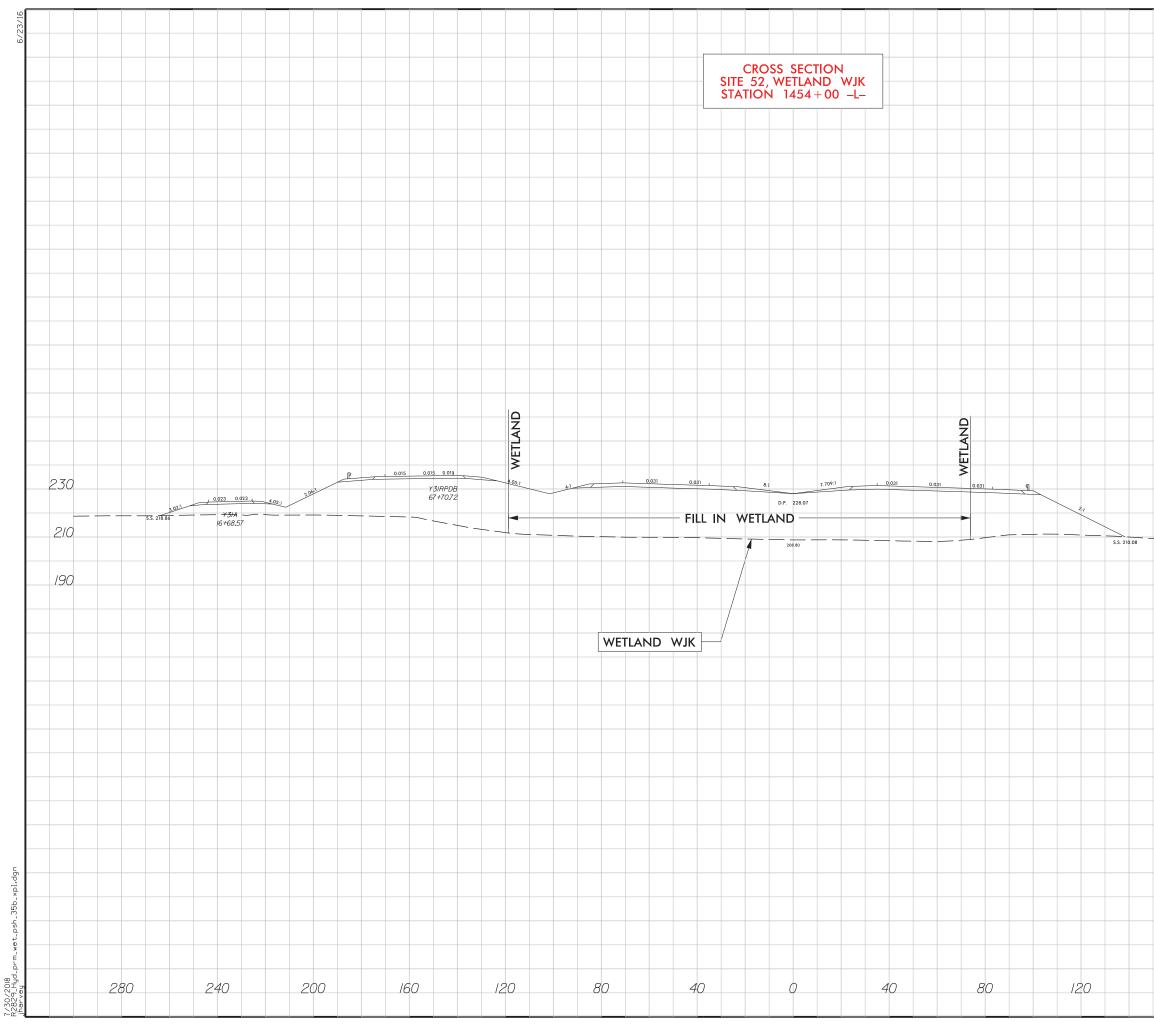
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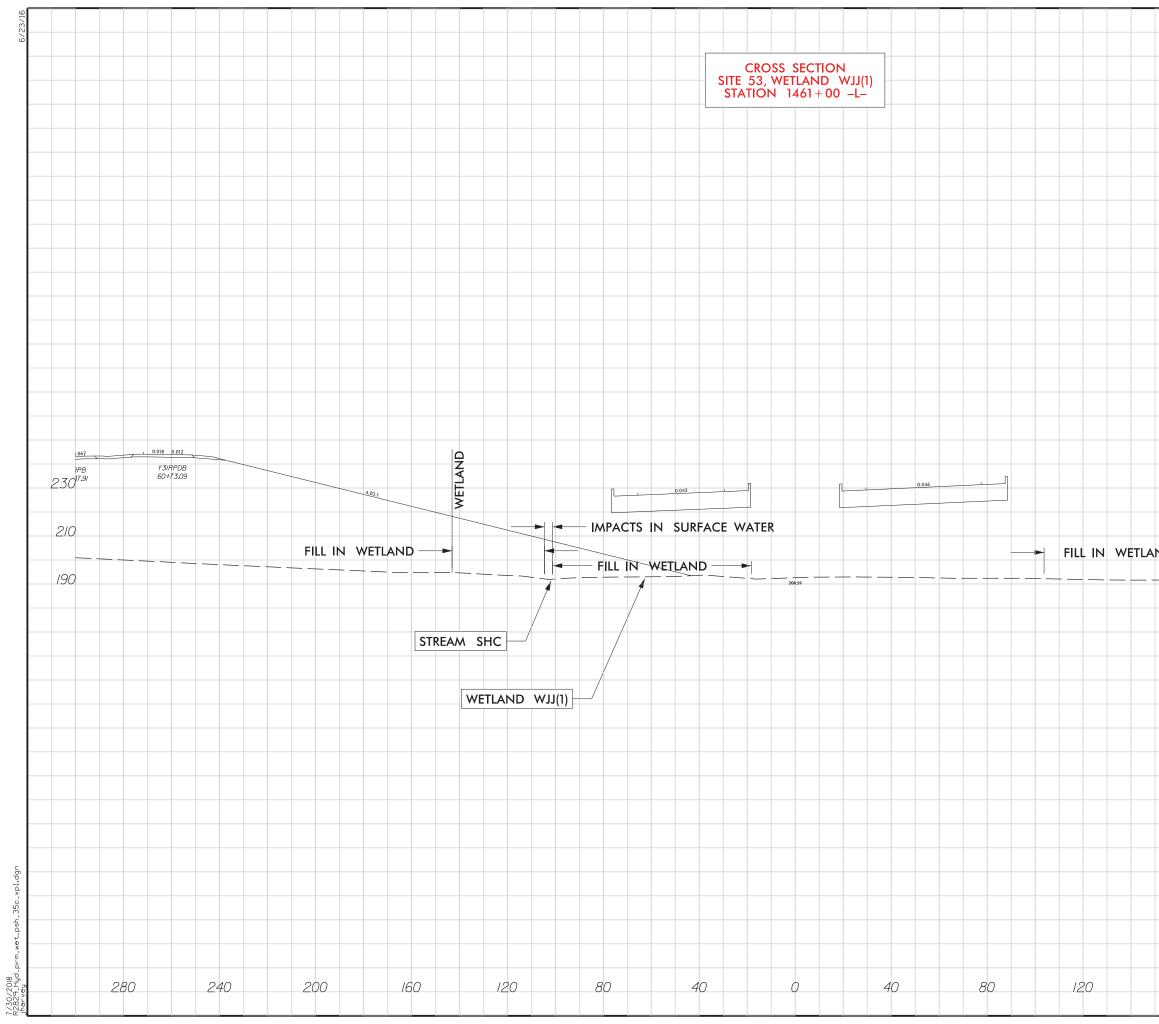
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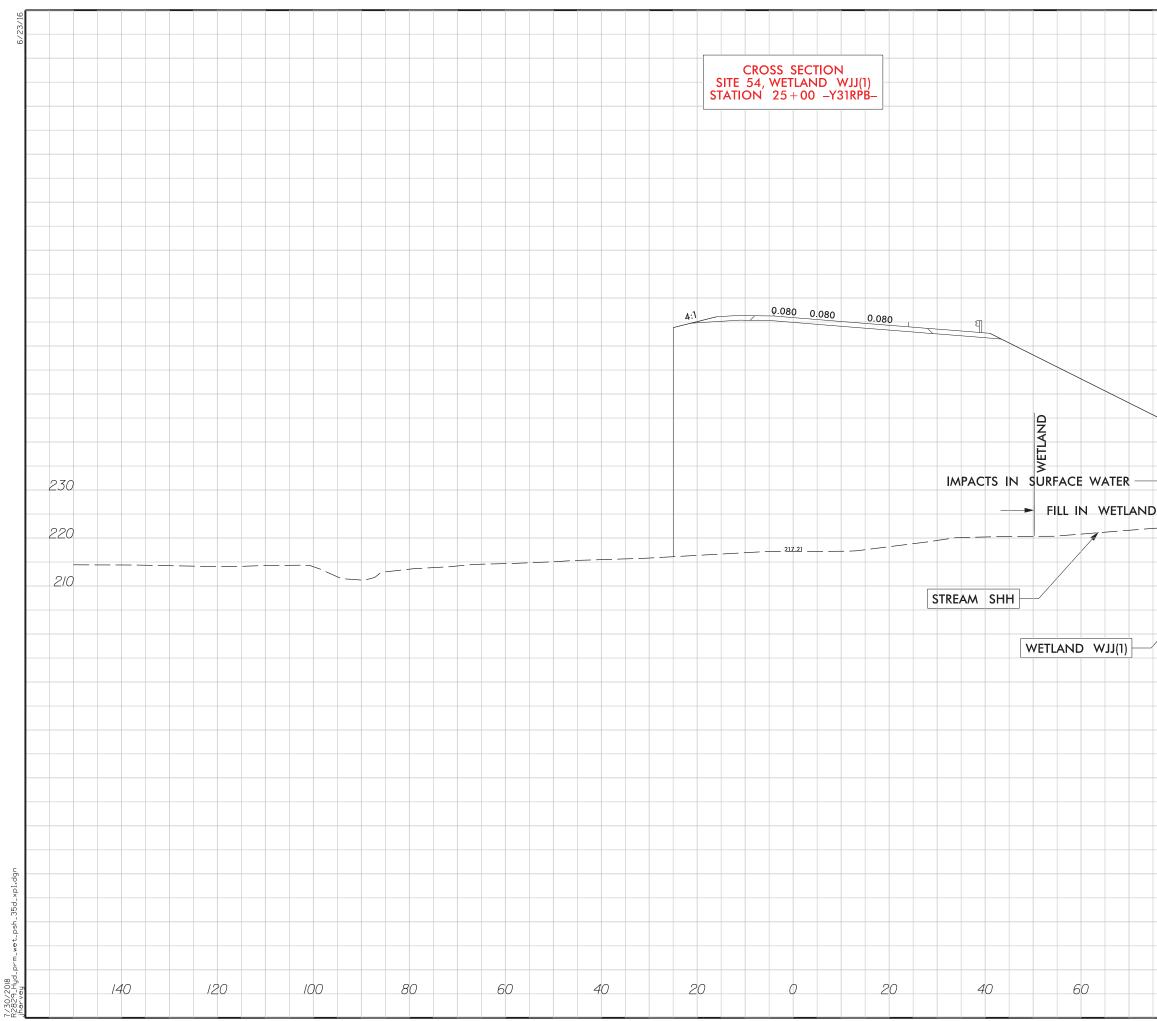




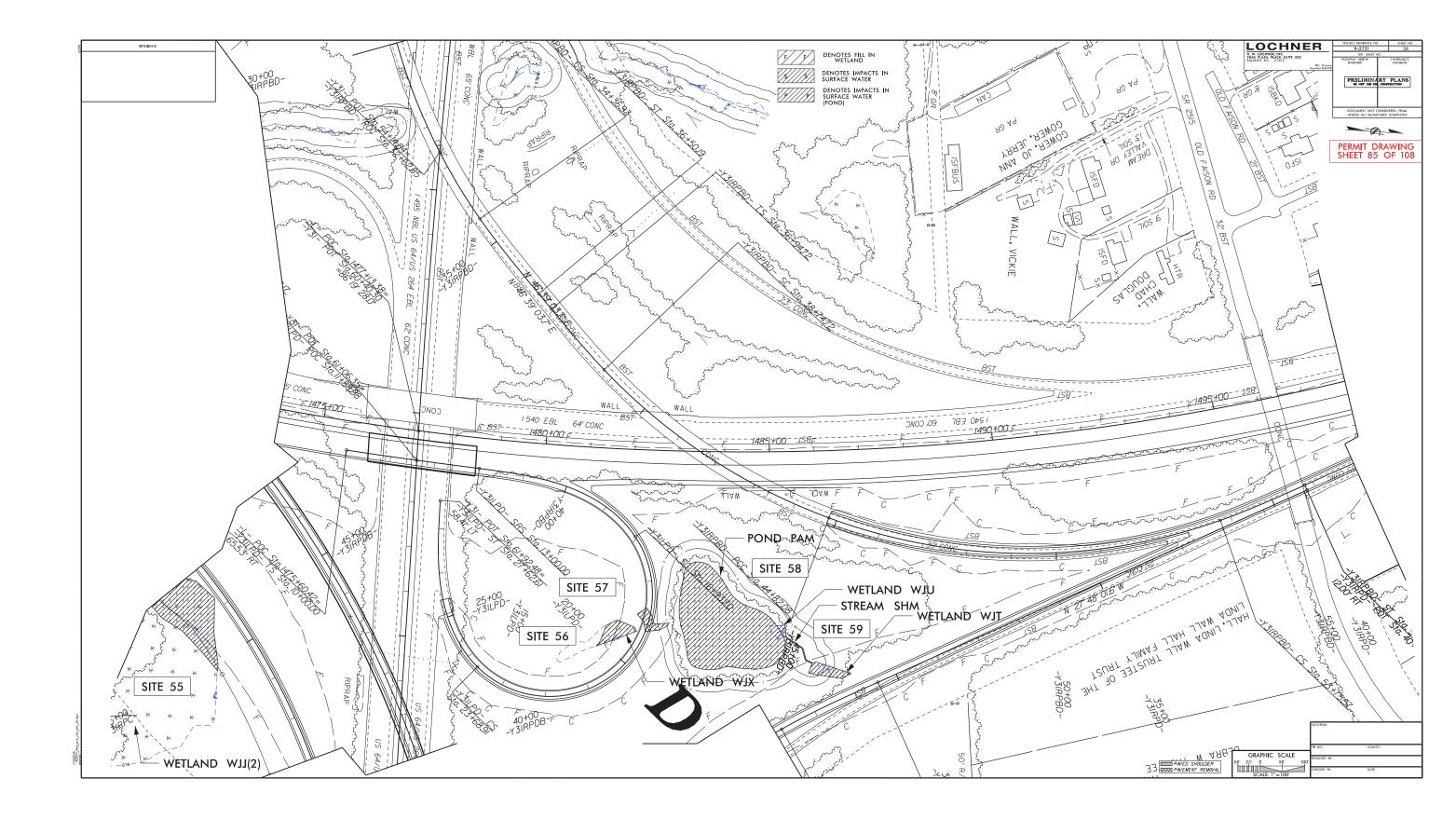
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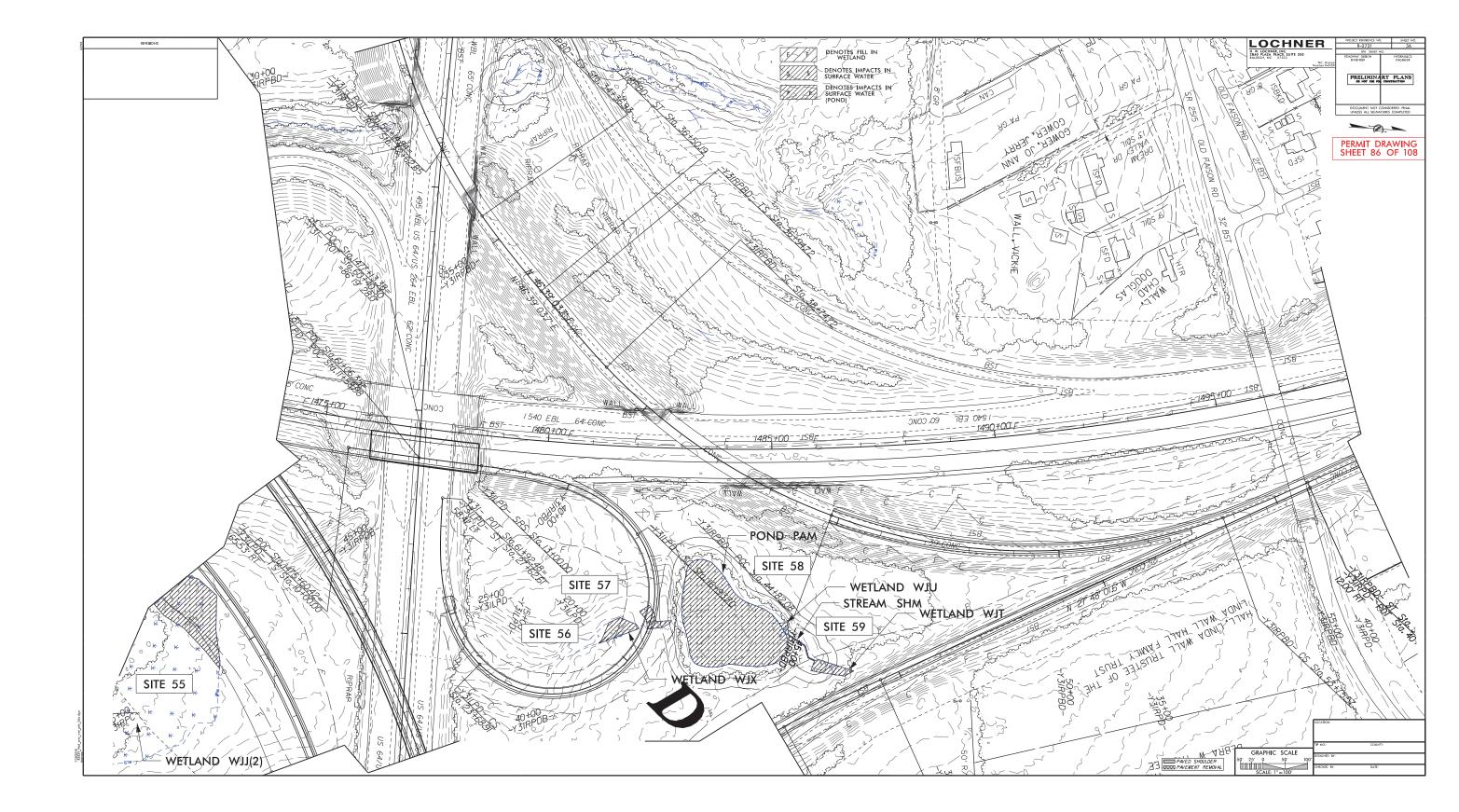


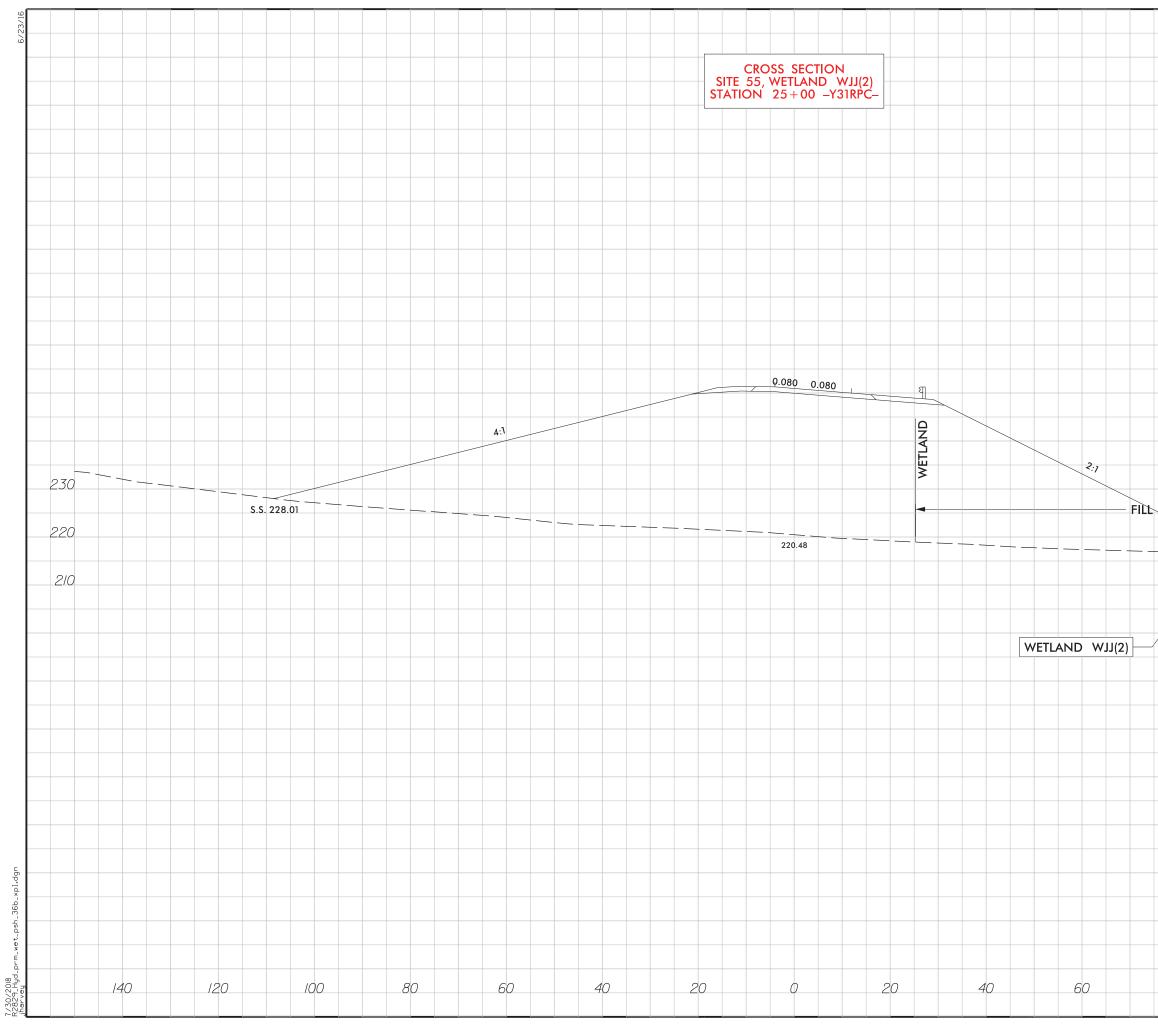
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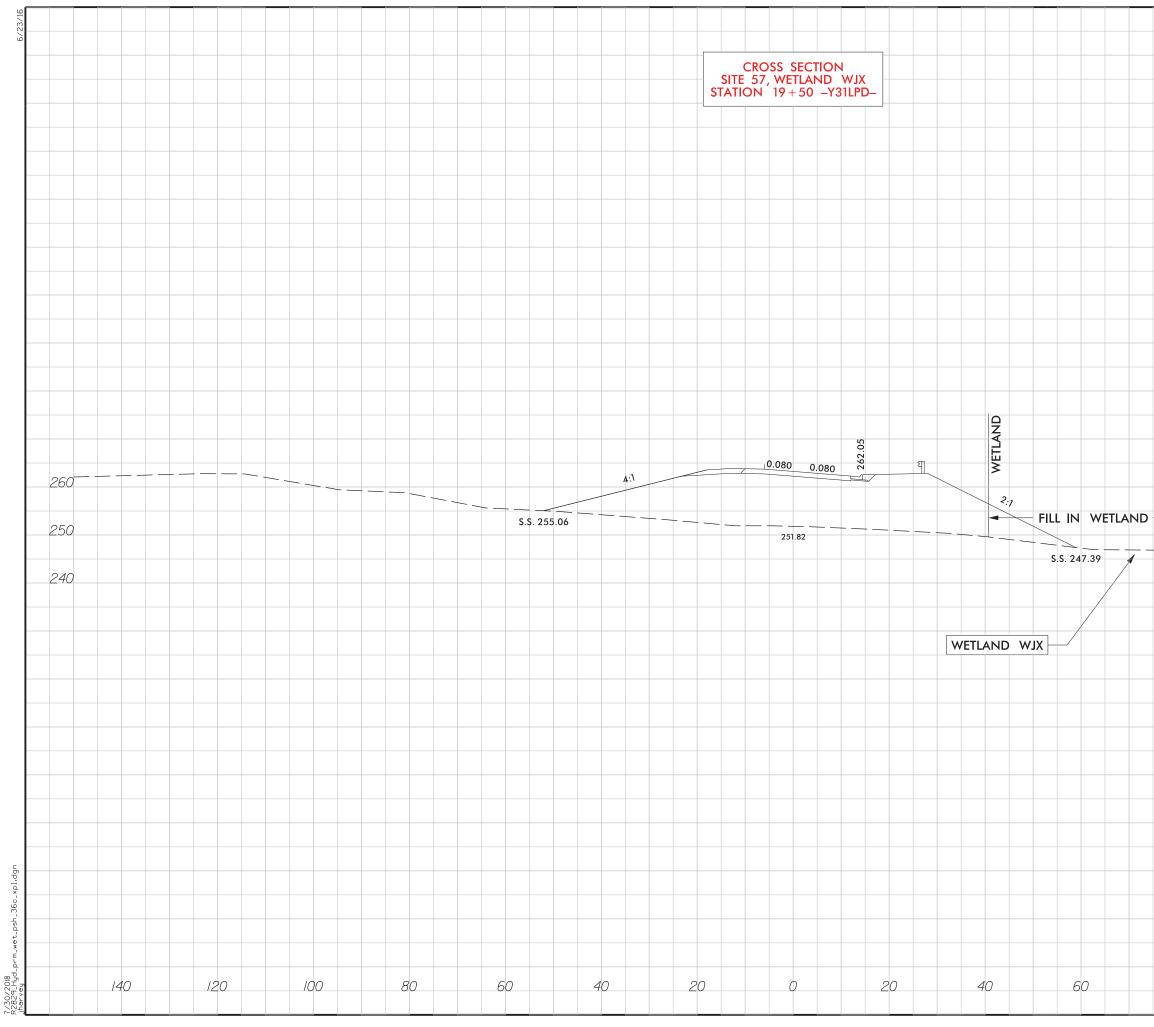
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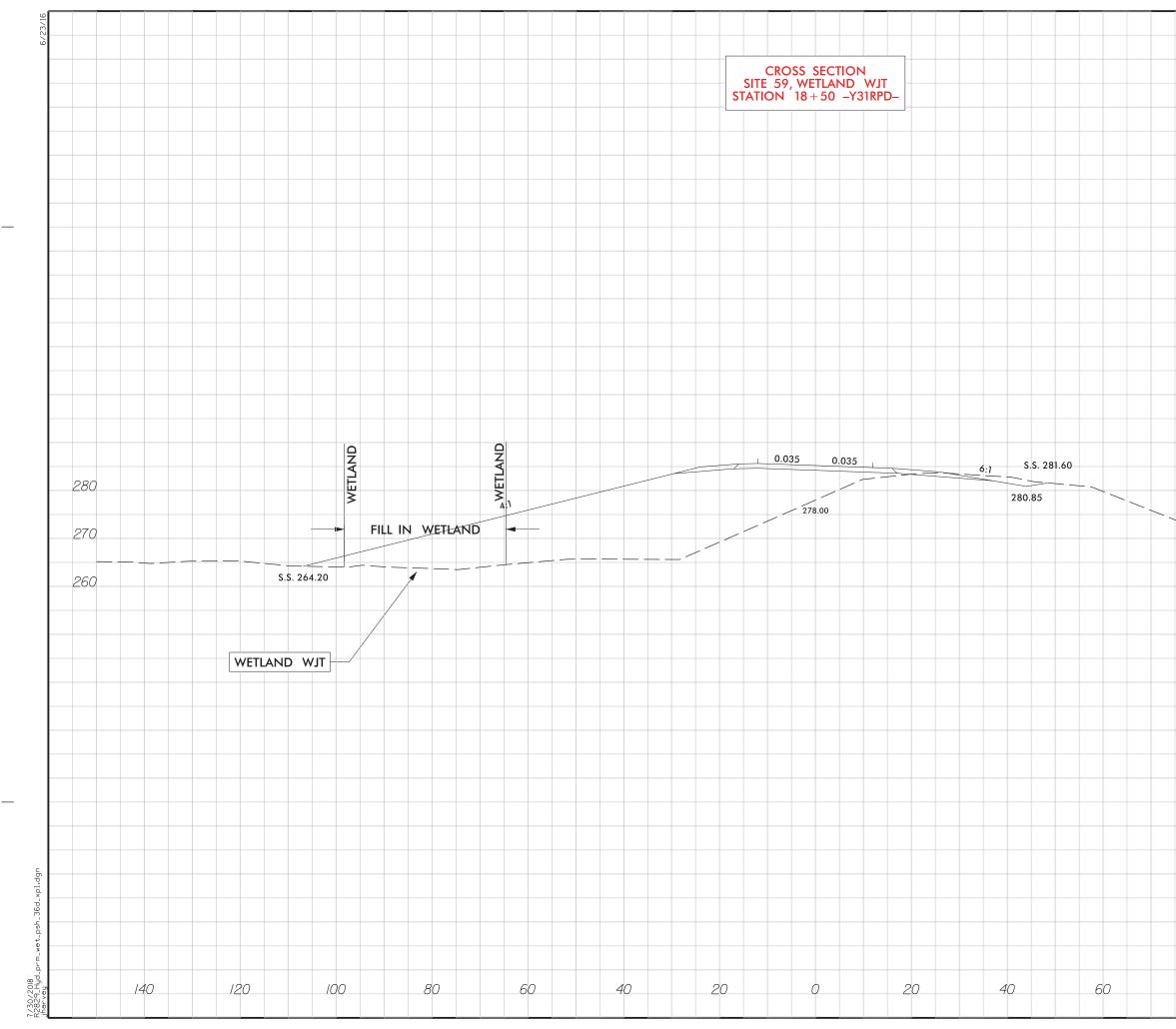




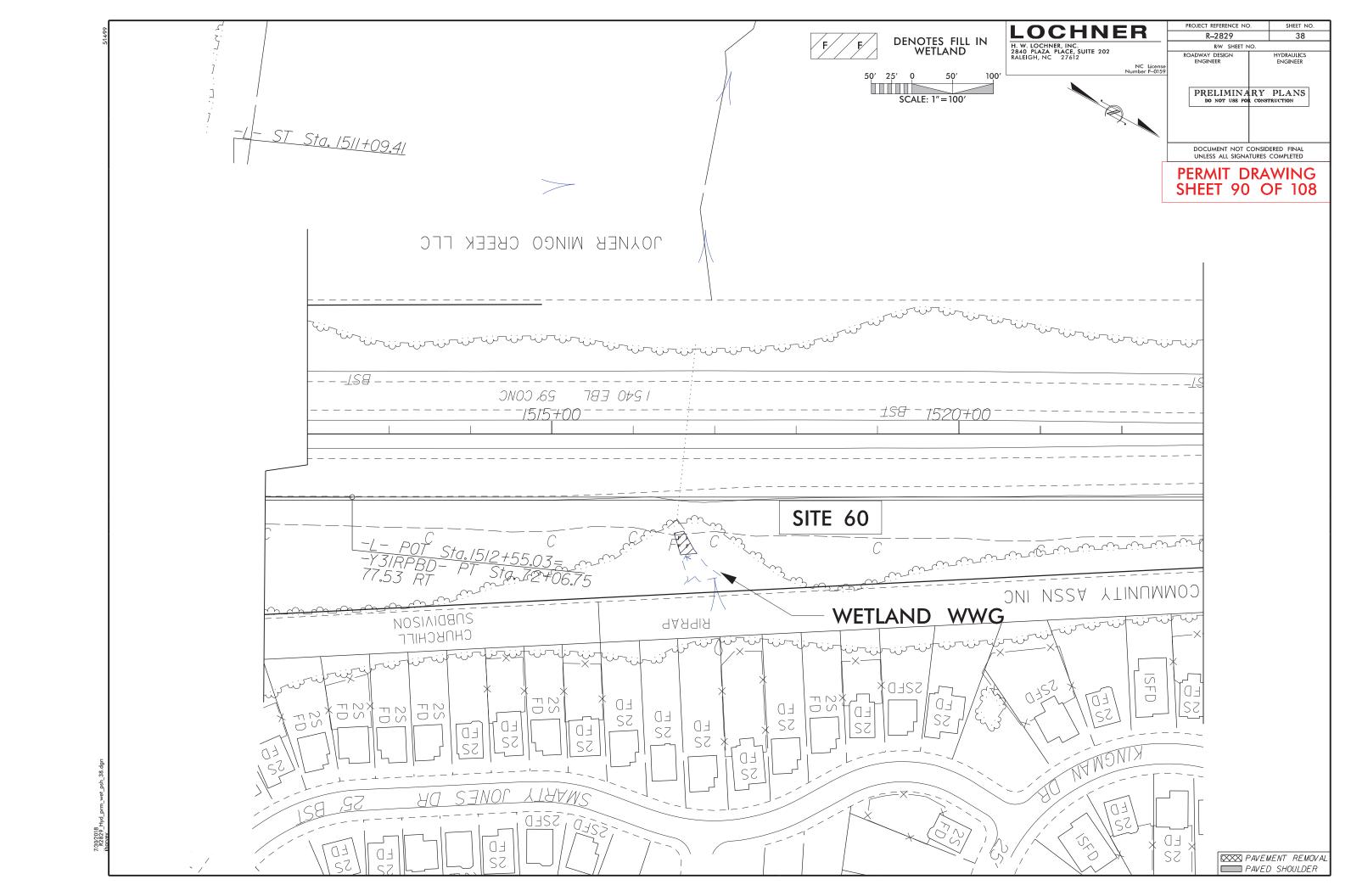
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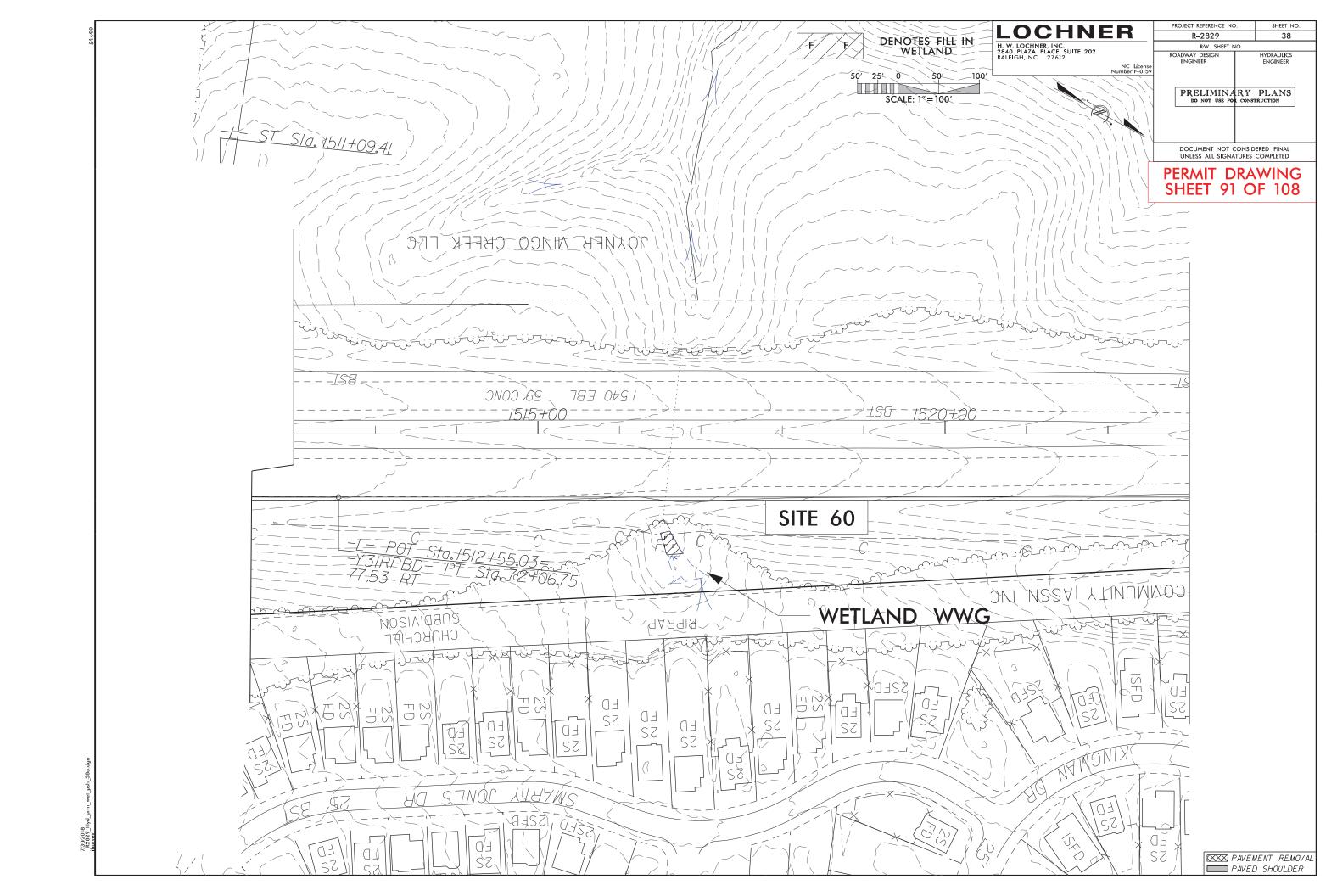


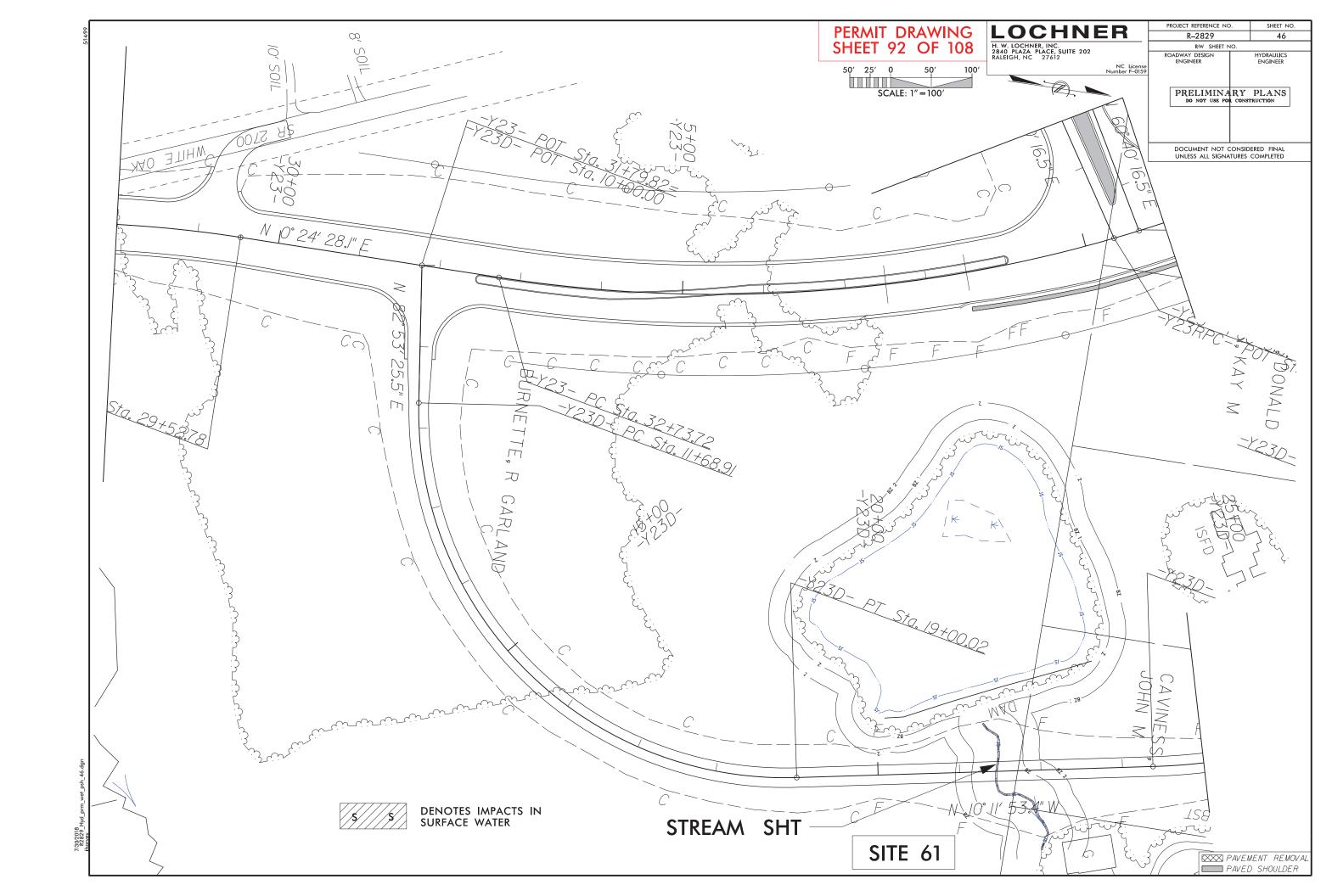
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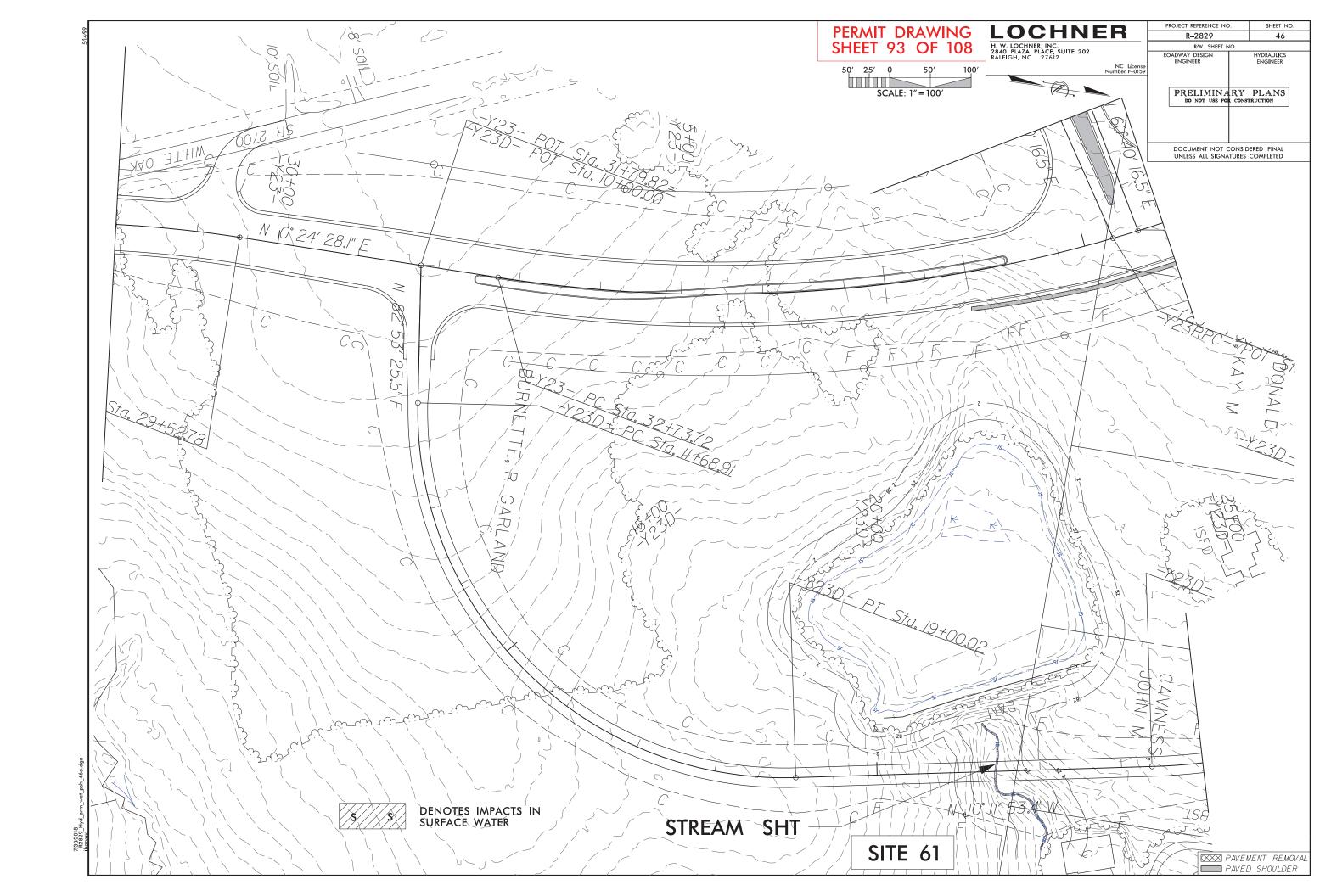


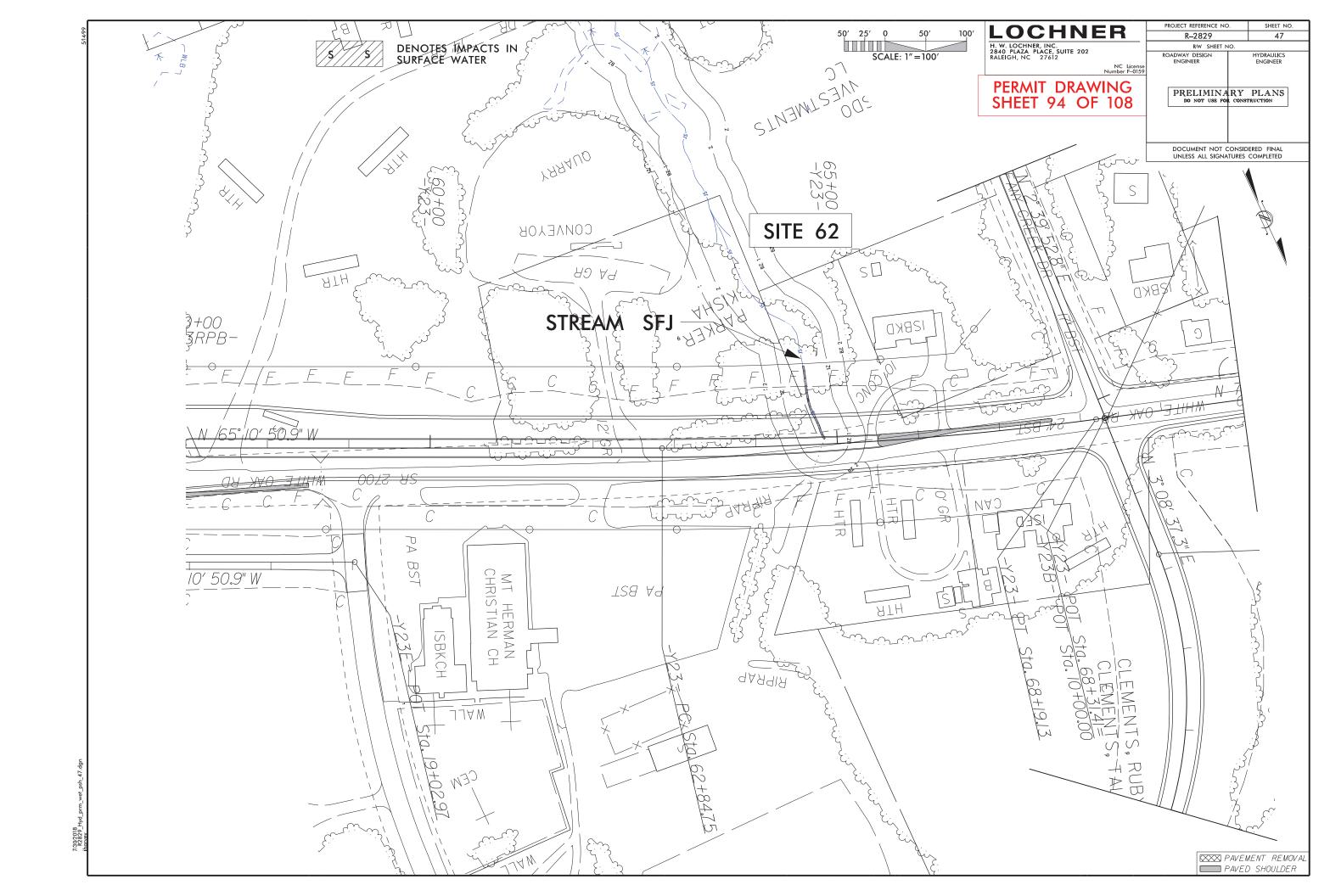
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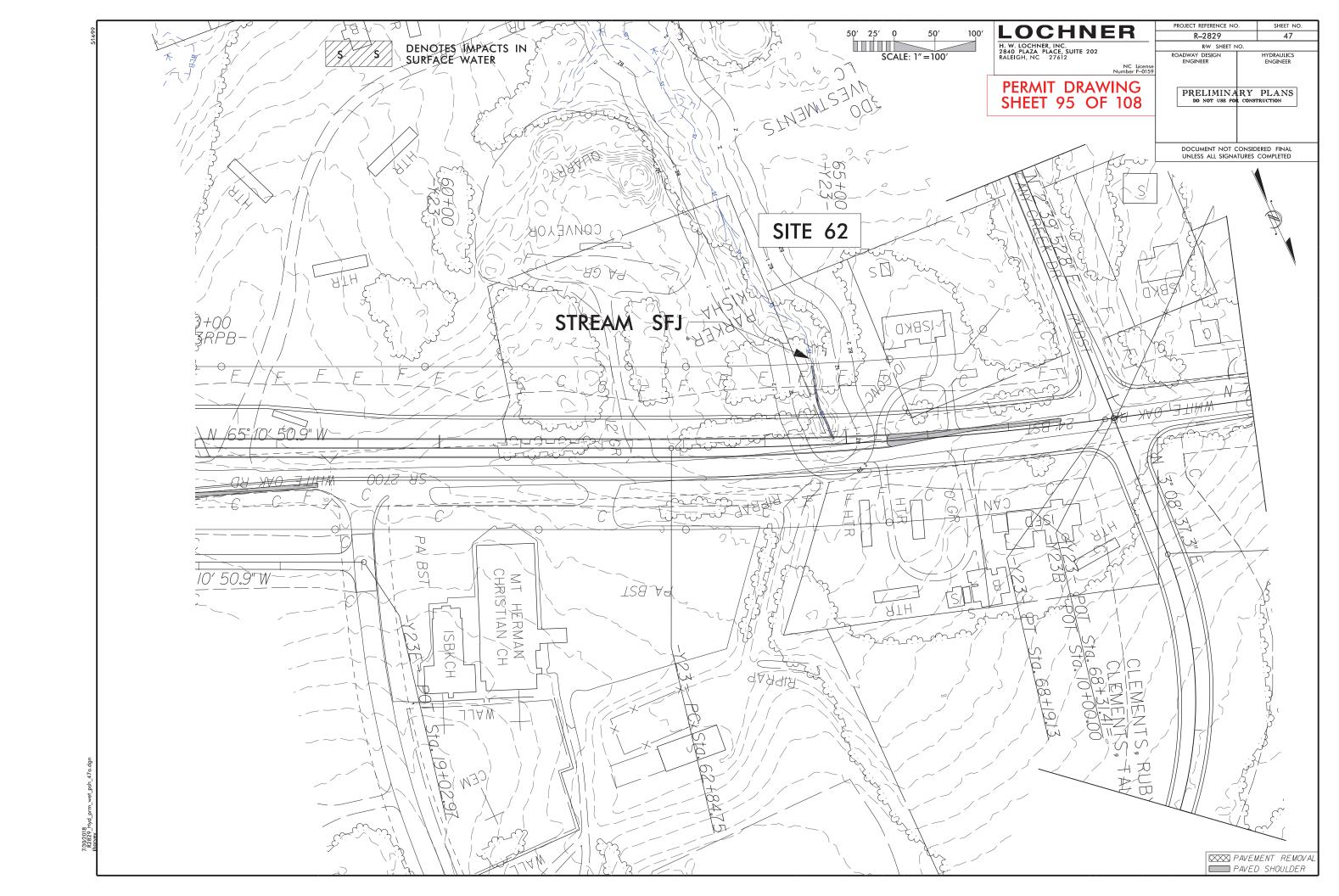


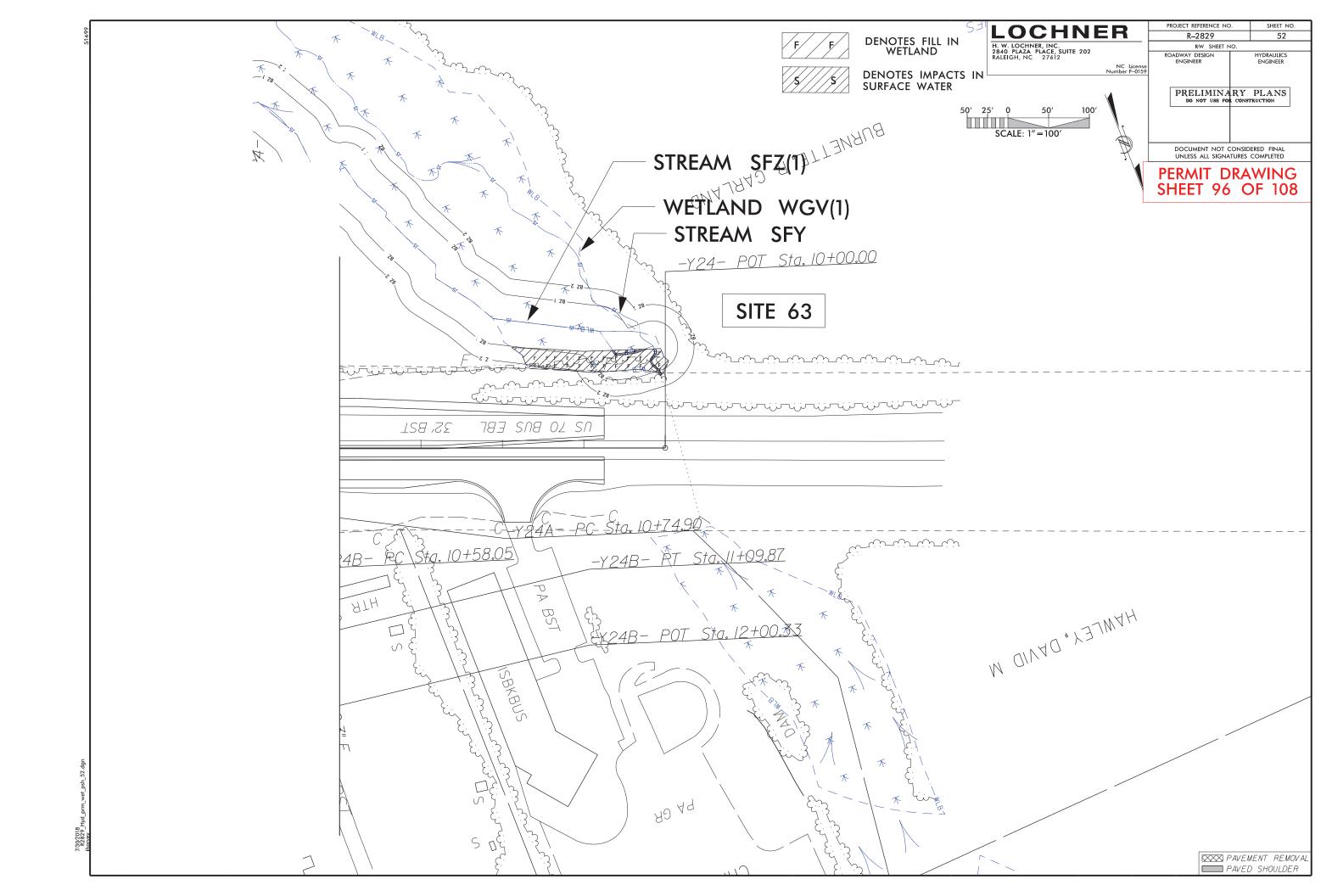


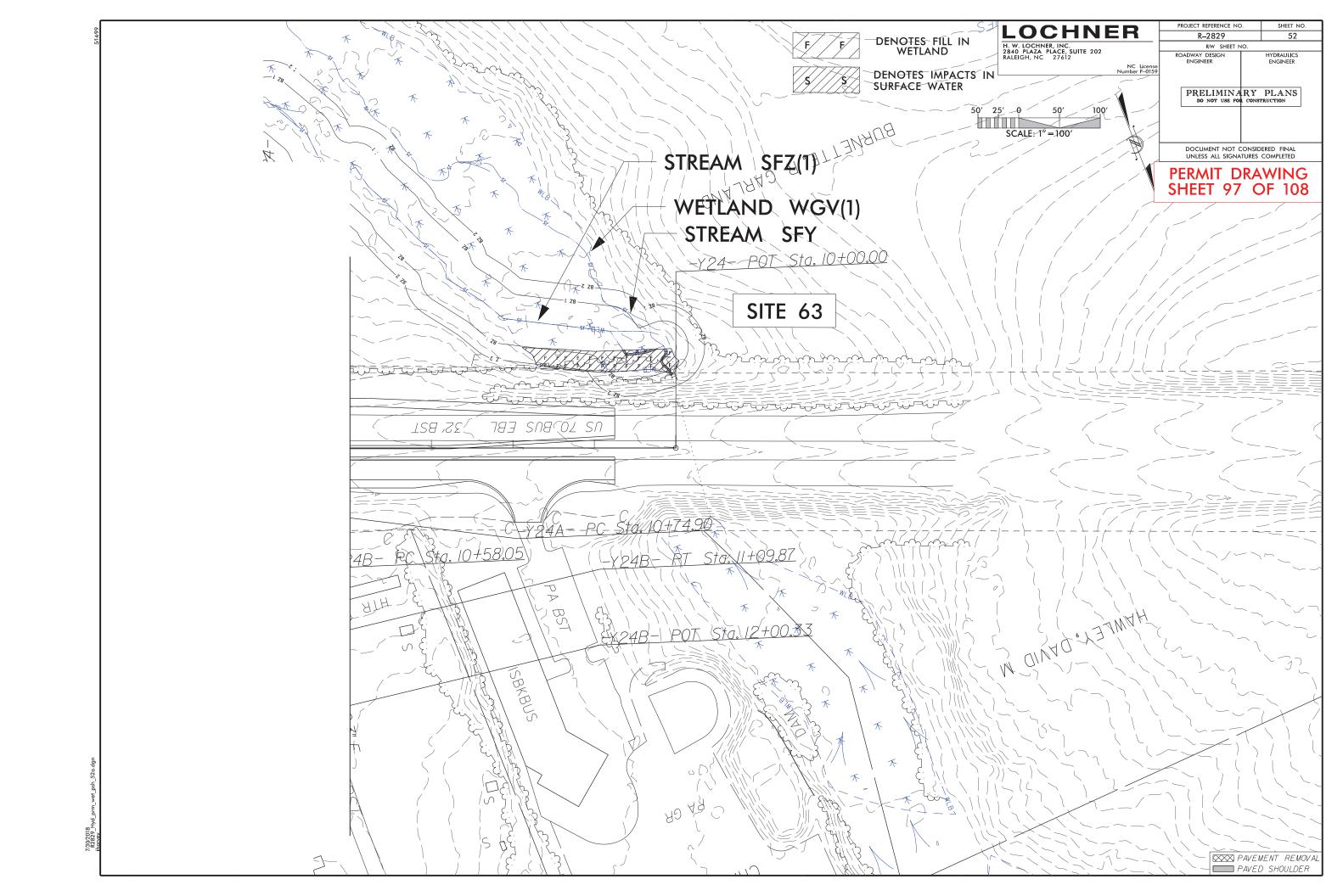


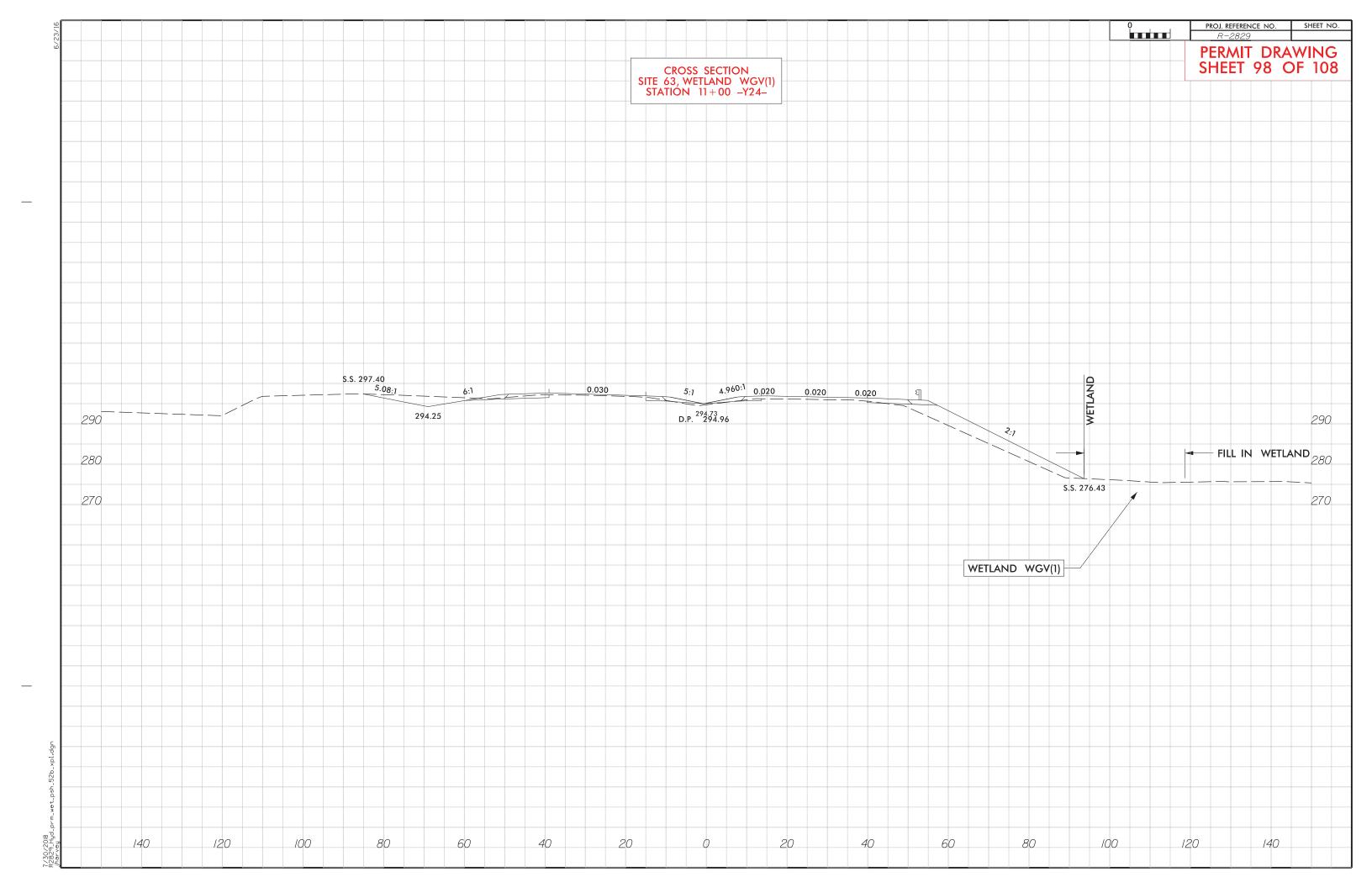


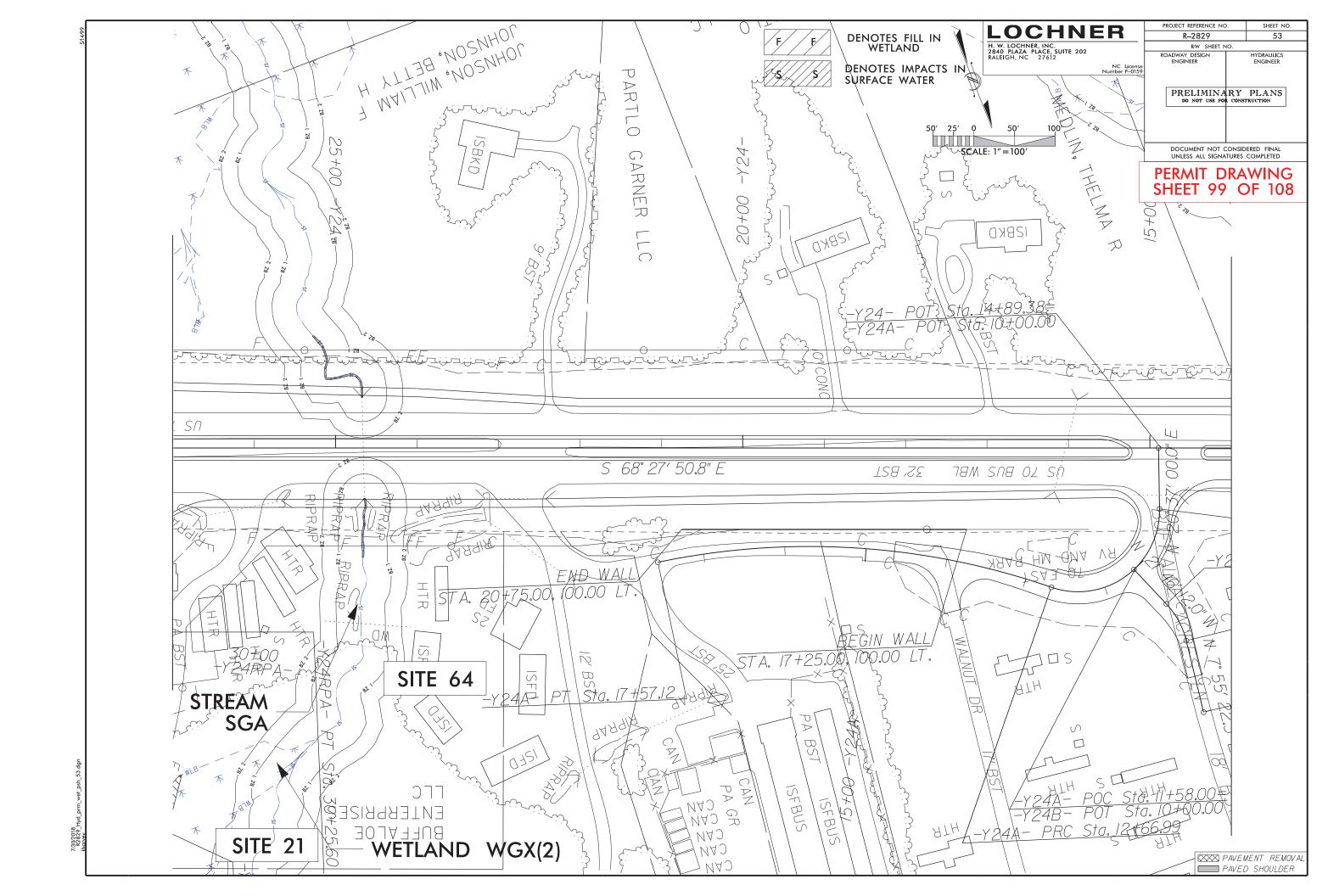


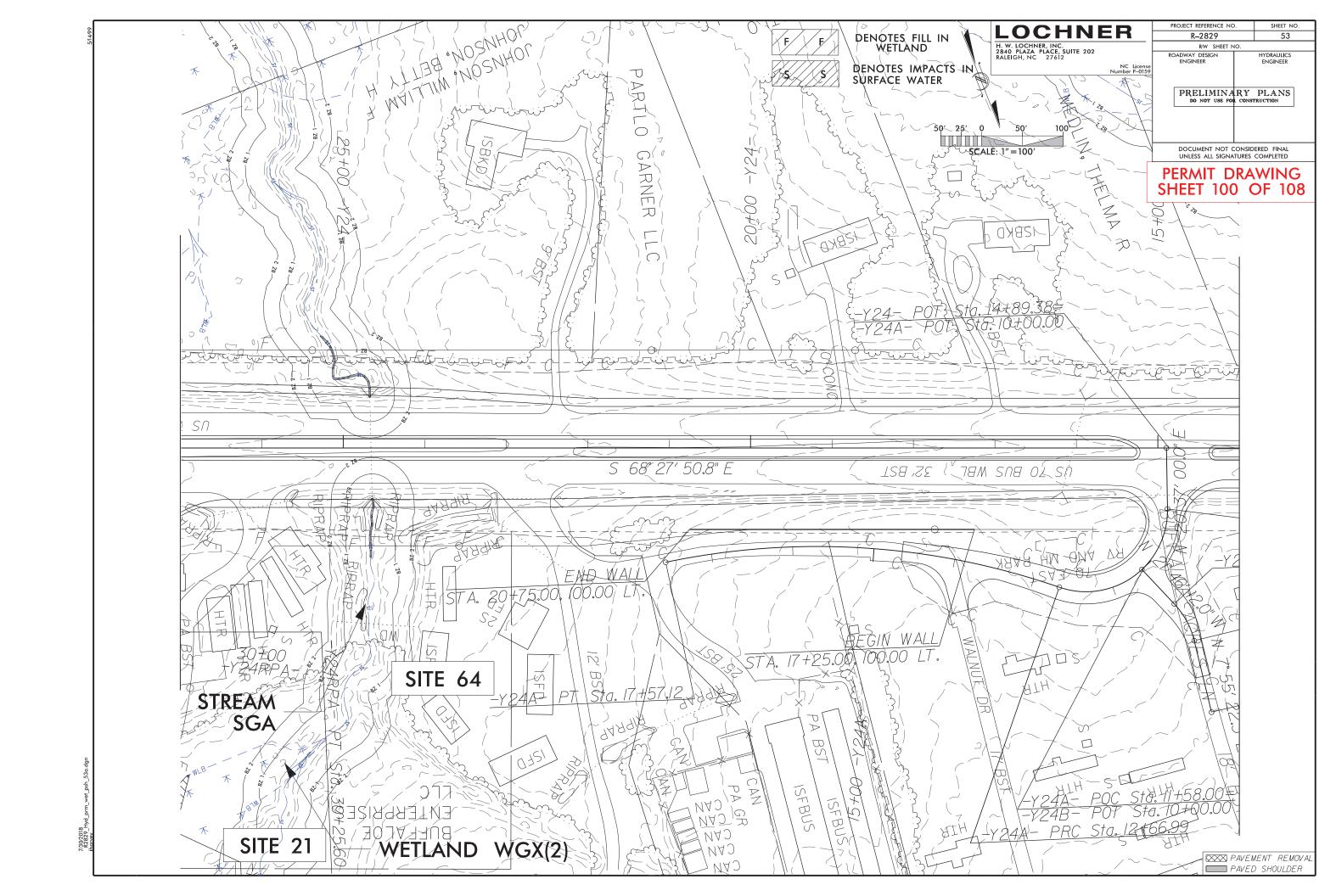


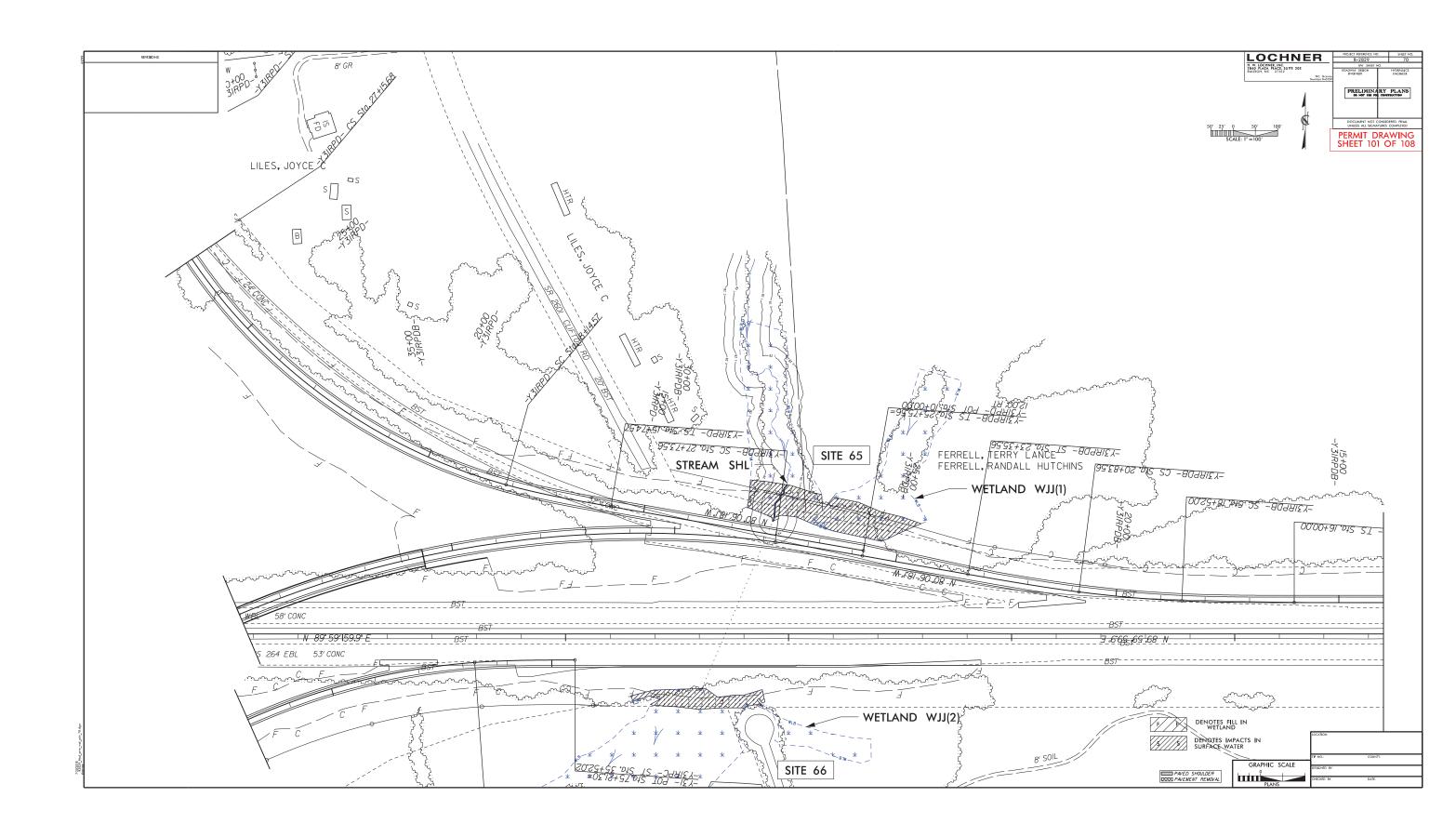


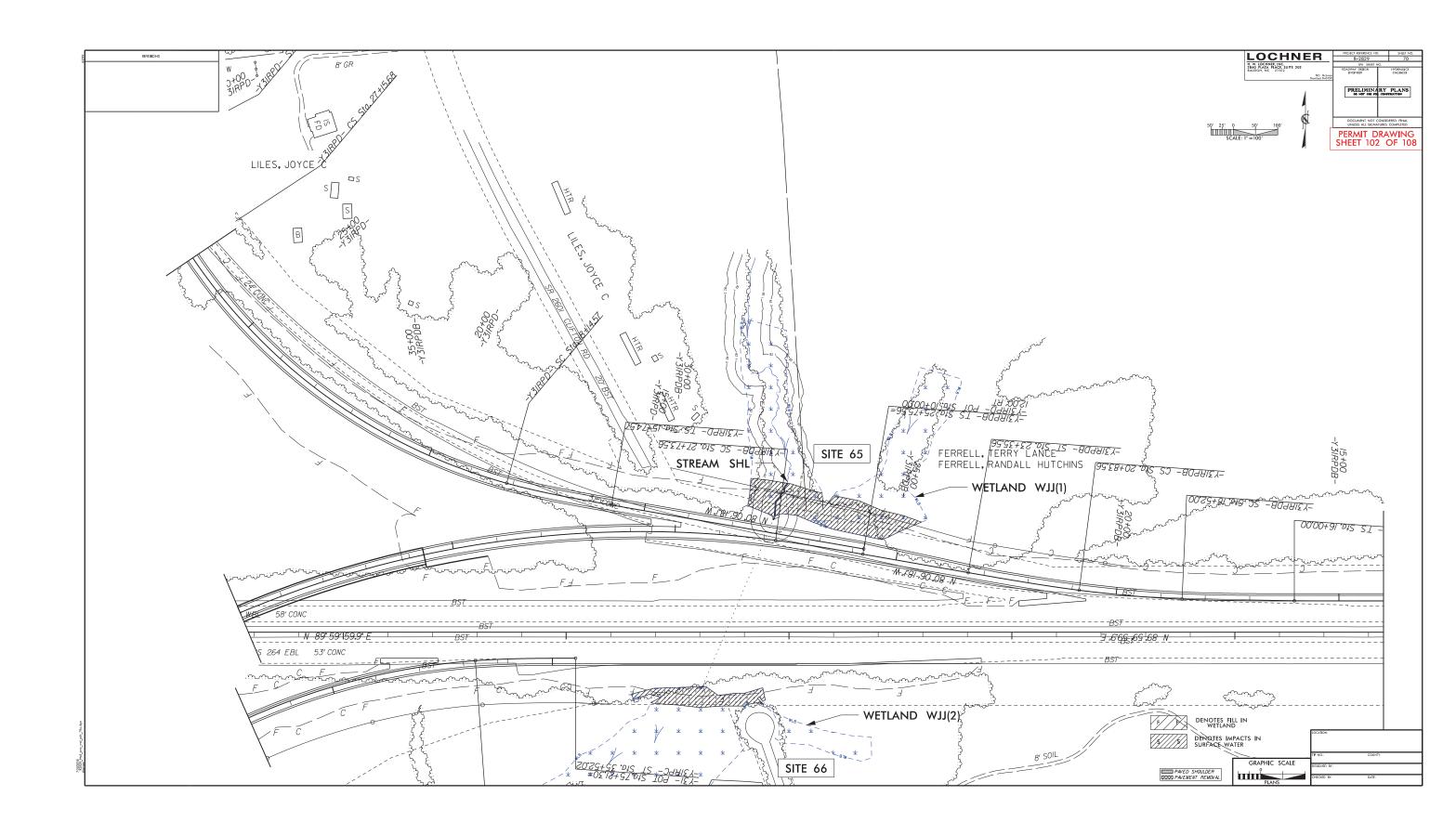


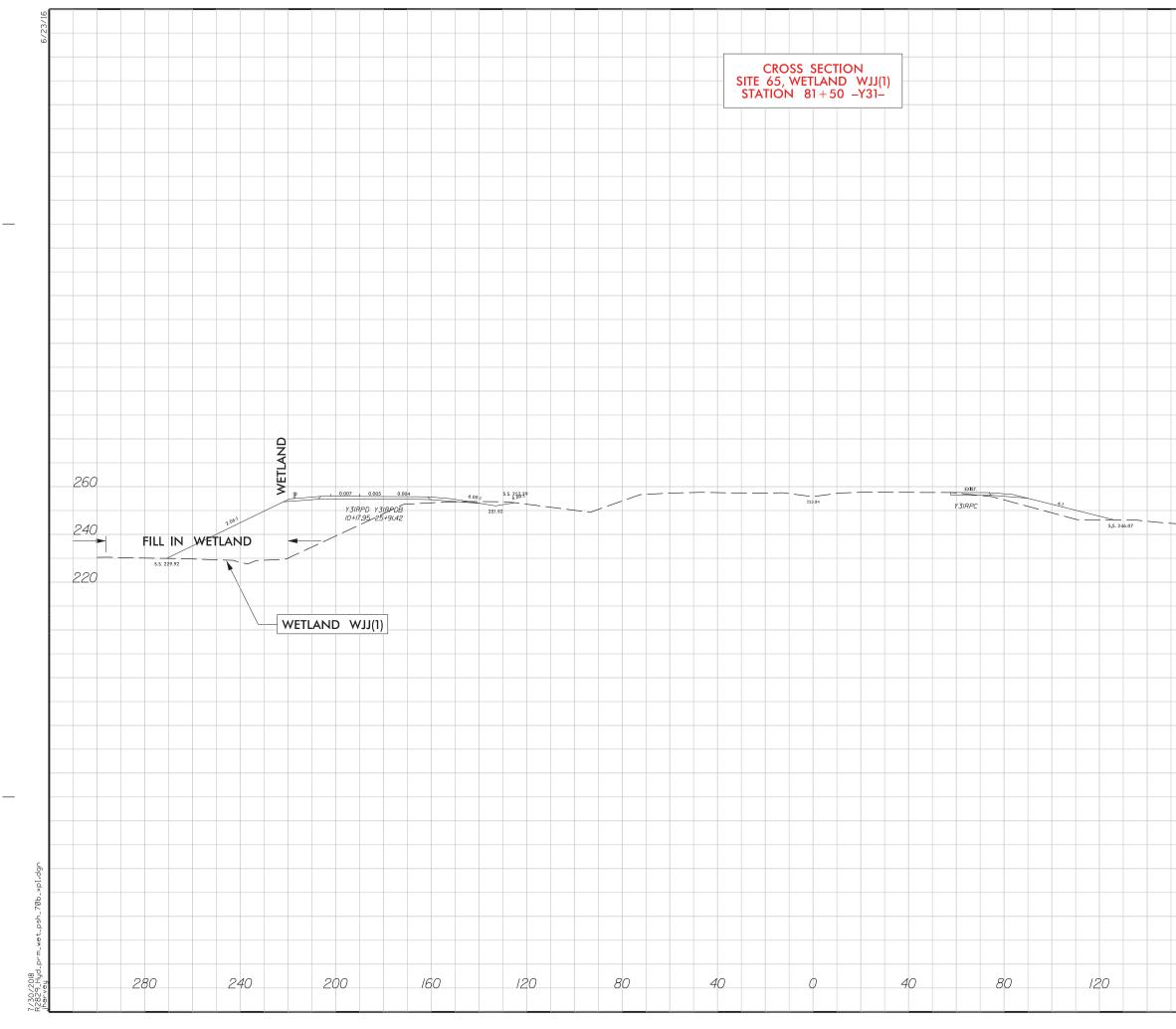




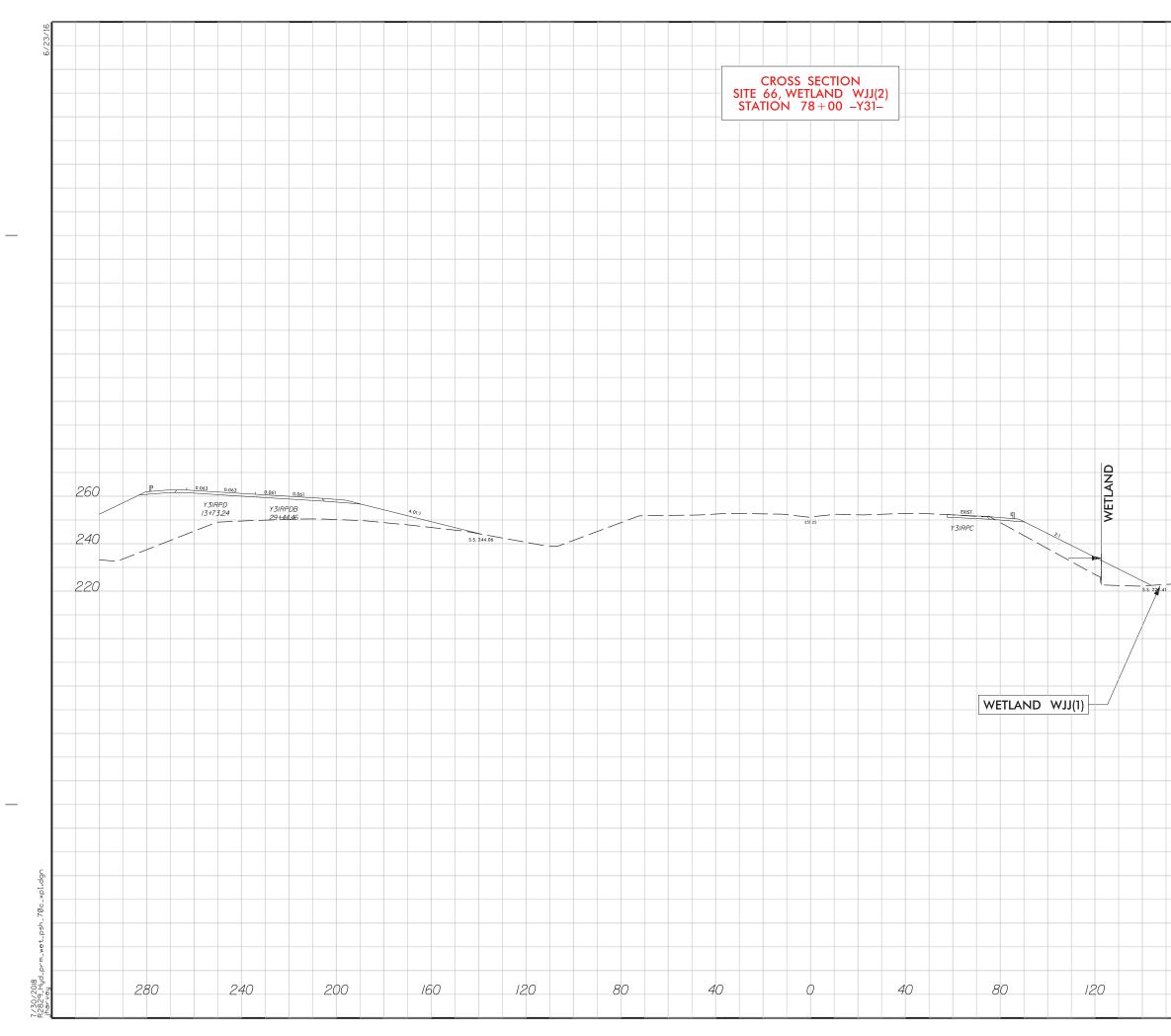








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160	200		70	280	



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F	ILL IN WETLAI	ND			
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160	200	24	40	280	

				WE	TLAND IMP	ACTS			SURFACE
Site	Station	Structure	Permanent Fill In	Temp. Fill In	Excavation in	Mechanized Clearing	Hand Clearing in	Permanent SW	Temp. SW
No.	(From/To)	Size / Type	Wetlands (ac)	Wetlands (ac)	Wetlands (ac)	in Wetlands (ac)	Wetlands (ac)	impacts (ac)	impacts (ac)
1	52+07 to 52+83-Y22RPAFLY-LT	ROADWAY FILL	0.02						
2	967+25 to 968+60-L-LT	ROADWAY FILL	0.09						
3	972+15 to 979+51-L-	ROADWAY FILL	0.84					0.03	
4	1001+22 to 1004+47-L-	ROADWAY FILL	0.47						
5	1008+45 to 1008+98-L-	ROADWAY FILL						0.02	
6	1012+45 to 1014+87-L-	ROADWAY FILL						0.02	
7	1013+88 to 1018+45	ROADWAY FILL	0.14					0.03	
8	1022+78 to 1024+65-L-	ROADWAY FILL	0.03					0.02	
9	1035+69 to 1037+54-L-	ROADWAY FILL	0.16					0.02	
		ROADWAY FILL (POND)						0.03	
10	27+43 to 27+71-Y23RPB-LT	ROADWAY FILL	< 0.01						
11	31+20 to 31+54-Y23D-	ROADWAY FILL						< 0.01	
12	1060+50 to 1063+96-L-	ROADWAY FILL	0.02					0.02	
13	1062+24 to 1062+74-L-	ROADWAY FILL	< 0.01					0.01	
14	45+51 to 47+42-Y23D-	ROADWAY FILL	0.05						
15	1098+65 to 1105+15 -L-	ROADWAY FILL	1.38					< 0.01	
16	1109+60 to 1116+95 -L-	ROADWAY FILL	2.10					0.06	
17	1113+04 to 1114+64 -L-RT	ROADWAY FILL	0.27						
18	1115+69 to 1116+20 -L-RT	ROADWAY FILL	0.03						
19	1123+94 to 1126+50 -L-	ROADWAY FILL	0.26					0.03	
20	1137+79 to 1142+13-L-	ROADWAY FILL						0.04	
21	26+25 to 28+85-Y24RPA-RT	ROADWAY FILL	0.21						
OTAL	I S*:		6.08					0.32	

NOTES:

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SHEET

VATER IM		
Existing	Existing	
Channel	Channel	Natural
Impacts	Impacts	Stream
Permanent	Temp.	Design
(ft)	(ft)	(ft)
- 10		
542		
413		
469		
612		
322		
326		
155		
468		
227		
455		
155		
1191		
534		
794		
6208	0	0

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				WE	TLAND IMP	ACTS			SURFACE
			Permanent	Temp.	Excavation	Mechanized	Hand Clearing	Permanent	Temp.
Site	Station	Structure	Fill In	Fill In	in	Clearing	in	SW	SW
No.	(From/To)	Size / Type	Wetlands	Wetlands	Wetlands	in Wetlands	Wetlands	impacts	impacts
			(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)
22	1148+23 to 1149+33-L-	ROADWAY FILL	0.21						L
23	25+14 to 25+99-Y24RPD-	ROADWAY FILL	0.10						
24	1151+15 to 1154+48-L-	ROADWAY FILL	1.29					0.03	
25	11+51 to 11+73-Y24RPD-	ROADWAY FILL						0.01	
26	1169+32 to 1172+25-L-	ROADWAY FILL	0.56					0.02	
27	1173+86 to 1178+33-L-LT	ROADWAY FILL	0.29					0.03	
28	1171+26 to 1178+65-L-	ROADWAY FILL						0.04	
29	1197+22 to 1198+69-L-	ROADWAY FILL	0.14						
30	17+07 to 18+65-Y27RPA-LT	ROADWAY FILL (POND)						0.03	
31	16+34 to 20+18 -Y27RPD-LT	ROADWAY FILL	0.18					< 0.01	
32	1241+99 to 1244+54-L-	ROADWAY FILL	0.03					0.02	
33	1268+92 to 1269+72-L-	ROADWAY FILL	0.05					0.01	
34	1276+60 to 1277+19-L-RT	ROADWAY FILL	0.05						
35	1287+71 to 1288+33-L-	ROADWAY FILL						0.02	
36	1315+08 to 1316+47-L-LT	ROADWAY FILL	0.06					< 0.01	
37	1317+02 to 1320+29-L-	ROADWAY FILL	0.06					0.02	
38	1323+04 to 1323+50-L-LT	BRIDGE	0.05						
38A	1324+16 to 1325+00L-LRT	ROADWAY FILL						< 0.01	
39	1343+98 to 1346+17 -L-	ROADWAY FILL	0.78						
40	1347+59 to 1354+79-L-	ROADWAY FILL						0.04	
41	24+36 to 25+45-Y29RPA-RT	ROADWAY FILL	0.11						
42	1345+70 to 1350+04-L-	ROADWAY FILL	0.16					0.52	
			1						
TOTALS	S*·		4.12		1		·	0.82	

NOTES:

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SHEET

WATER IMI	PACTS	
Existing	Existing	
Channel	Channel	Natural
	-	Stream
Impacts Permanent	Impacts	
	Temp.	Design
(ft)	(ft)	(ft)
681		
293		
492		
513		
798		
164		
500		
227		
500		
156		
448		
99		
970		
970		
-		
6811	0	0

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				WE	TLAND IMP	ACTS			SURFACE
			Permanent	Temp.	Excavation	Mechanized	Hand Clearing	Permanent	Temp.
Site	Station	Structure	Fill In	Fill In	in	Clearing	in	SW	SW
No.	(From/To)	Size / Type	Wetlands	Wetlands	Wetlands	in Wetlands	Wetlands	impacts	impacts
110.	(11011/110)	0.207 1990	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)
43	18+10 to 18+94-Y29E-	ROADWAY FILL	0.31	()					
44	1377+57 to 1382+39-L-	ROADWAY FILL	0.18					0.01	
		ROADWAY FILL (POND)						1.79	
45	1388+72 to 1394+94-L-	ROADWAY FILL (POND)						4.85	
46	1404+33 to 1405+98-L-	ROADWAY FILL	0.43					0.02	
47	1412+68 to 1415+70-L-	ROADWAY FILL	1.29						
48	24+16 to 24+98-Y30RPC-	ROADWAY FILL	0.17						
49	21+94 to 34+46-Y30-RT	ROADWAY FILL	0.20					0.05	
50	34+82 to 35+20-Y30-	ROADWAY FILL						0.01	
51	1431+44 to 1432+43-L-RT	ROADWAY FILL	0.11						
52	1453+37 to 1455+18-L-	ROADWAY FILL	0.61						
53	1454+97 to 1469+92-L-	ROADWAY FILL	3.12					0.07	
54	23+91 to 26+31-Y31RPB-RT	ROADWAY FILL	0.33					< 0.01	
55	21+93 to 25+21-Y31RPC-RT	ROADWAY FILL	0.45						
56	19+77 to 20+82-Y31LPD-L5	ROADWAY FILL	0.05						
57	20+85 to 21+38-Y31LPD-LT	ROADWAY FILL	0.03						
58	26+28 to 28+11-Y31RPD-LT	ROADWAY FILL (POND)						0.87	
59	28+11 to 29+12-Y31RPD-LT	ROADWAY FILL	0.05					< 0.01	
60	1516+50 to 1516+78-L-RT	ROADWAY FILL	0.01						
61	21+30 to 22+07-Y23D-	ROADWAY FILL						0.01	
62	64+61 to 64+85-Y23-LT	ROADWAY FILL						< 0.01	
63	9+96 to 11+89-Y24-RT	ROADWAY FILL	0.10					< 0.01	
64	24+62 -Y24-LT	ROADWAY FILL						0.01	
TOTALS	5*:		7.45					7.70	

NOTES:

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SHEET

WATER IM	DACTS	
Existing	Existing	
Channel	Channel	Natural
Impacts	Impacts	Stream
Permanent	Temp.	Design
(ft)	(ft)	(ft)
289		
428		
1096		
212		
2.2		
1417		
202		
202		
94		
214		
94		
31		
197		
4274	0	0
	·	

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Site No.Station (From/To)Structure Structure Size / TypePermanent Fill In Wetlands (ac)Temp. Fill In Wetlands (ac)Excavation In Wetlands (ac)Mechanized Clearing in Wetlands (ac)6524+58 to 28+44-Y31RPDB-RTROADWAY FILL0.55			SURFAC
Site No.Station (From/To)Structure Size / TypeFill In Wetlands (ac)Fill In Wetlands (ac)in Wetlands (ac)6524+58 to 28+44-Y31RPDB-RTROADWAY FILL0.55(ac)(ac)(ac)6627+46 to 31+02-Y31RPDB-LTROADWAY FILL0.211116724+58 to 28+44-Y31RPDB-LTROADWAY FILL0.211116827+46 to 31+02-Y31RPDB-LTROADWAY FILL0.211116927+46 to 31+02-Y31RPDB-LTROADWAY FILL0.211116027+46 to 31+02-Y31RPDB-LTROADWAY FILL0.2111161111111116227+46 to 31+02-Y31RPDB-LTIncome11111631111111116411111111171111111117111111111711111111181111111118111111111911111111191<	Hand		
No.(From/To)Size / TypeWetlands (ac)Wetlands (ac)in Wetlands (ac)6524+58 to 28+44-Y31RPDB-RTROADWAY FILL0.556627+46 to 31+02-Y31RPDB-LTROADWAY FILL0.21777ADDWAY FILL0.218711111911111191111111011111111111111121111111311111114111111151111111611111117111111181111111911111119111111191111111911111119111111191111111911111119111111 <th>Clearing</th> <th>Permanent</th> <th>Temp.</th>	Clearing	Permanent	Temp.
Image: Normal Sector of the	in	SW	SW
65 24+58 to 28+44-Y31RPDB-RT ROADWAY FILL 0.55 66 27+46 to 31+02-Y31RPDB-LT ROADWAY FILL 0.21 67 27+46 to 31+02-Y31RPDB-LT ROADWAY FILL 0.21 68 27+46 to 31+02-Y31RPDB-LT ROADWAY FILL 0.21 69 27+46 to 31+02-Y31RPDB-LT ROADWAY FILL 0.21 60 27+46 to 31+02-Y31RPDB-LT ROADWAY FILL 0.21 61 1 1 1 1 1 62 1 1 1 1 1 1 63 SHEET 77 TOTALS 0.75 1 1 1 1 64 SHEET 74 TOTALS 6.08 1 <	Wetlands	impacts	impacts
66 27+46 to 31+02-Y31RPDB-LT ROADWAY FILL 0.21 Image: Constraint of the second	(ac)	(ac)	(ac)
Image: Sheet 77 totals Image: Sheet 77 totals Image: Sheet 77 totals Image: Sheet 75 totals I		< 0.01	
SHEET 74 TOTALS 6.08 SHEET 75 TOTALS 4.12			
SHEET 74 TOTALS 6.08 SHEET 75 TOTALS 4.12			
SHEET 74 TOTALS 6.08 SHEET 75 TOTALS 4.12			
SHEET 74 TOTALS 6.08 SHEET 75 TOTALS 4.12			
SHEET 74 TOTALS 6.08 SHEET 75 TOTALS 4.12			
SHEET 74 TOTALS 6.08 SHEET 75 TOTALS 4.12			
SHEET 74 TOTALS 6.08 SHEET 75 TOTALS 4.12		< 0.01	
SHEET 75 TOTALS 4.12			1
SHEET 75 TOTALS 4.12		0.32	1
		0.82	
Check Free Formation <td< td=""><td></td><td>7.70</td><td></td></td<>		7.70	
Image: constraint of the second sec		1.10	
Image: section of the section of th			
Image: section of the section of th			-
Image: state of the state			+
Image: state of the state			
Image: state of the state			
Image: Constraint of the second sec			
			+
			<u> </u>
			
TOTALS*: 18.40		8.85	<u> </u>

NOTES:

NC DEF

SHEET

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VATER IMI Existing	Existing	
Channel	Channel	Natural
Impacts	Impacts	Stream
Permanent	Temp.	Design
(ft)	(ft)	(ft)
94	()	()
94		
6208		
6811		
4274		
17387	0	0
1/30/	0	0

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