



Gopher State		Tailgate Session			Cty: Morrison	Type	Code	Quant	W/O#: 295265	WP#:
#:		Switching Orders	Source Determined		Sec:	New Const			LOC#: 89-000-09-00819	
Time OK:		PPE Needed	Potential Hazards		Twp: 39N	Sys Imp			Name: SUBSTATION-BELLEVUE	
Date OK:		Trees	Weather	Poles	Ins.	Rg: 31W,32W	Ret (RWR)		(H) Phone #:	
List:		Terrain	Public	Barricading		Signed By: Quale		Date: 1/3/2014	(W) Phone #:	
		Power Equip. Needed		Personal Tools		Staked By: Luke Kasella		Date: 1/21/2015	(C) Phone #:	
		Sect./Fusing		Supervisor		Elec:		AFF #:	Acct#: 35015801	
COMBINATION STAKING SHEET		Update:		Date:		Comments:		RFCd:	By:	Page: 1 of 20

Point	Pri. BSpan	Pri. Wire Size	Pole	OH Assy	Grnd.	Guy E	Lead	Anchor F	Trans G	Light M26-5	Ang.	J Box L Ped	Mod	El-bow	Cap	Spl-ice	Pri. Riser	Sec. Span	Sec. Wire	Sec. Unit	CWP Ped/ Loop	Misc Assy	Remarks	
1	280	(3)4/0 ACSR-Pri 1/0 ACSR-Neu	40-4	C1.11P	H1.1																			
					H3.1																			
2	90	(3)500 MCM 15KV									88°													90' BORE
	90	(3)2.5 INNERDUCT																						
3	860	(3)500 MCM 15KV			UM48-3						1°					3								UM6-12
4	140	(3)500 MCM 15KV									2°													140' BORE
	140	(3)2.5 INNERDUCT																						
4A																								UM6-12
4B																								UM6-12
4C																								UM6-12
5	2350	(3)500 MCM 15KV			UM48-3						1°					3								
6	1315	(3)500 MCM 15KV			UM48-2						1°	UM33												UM6-12
7	1470	(3)500 MCM 15KV			UM48-3						5°					3								UM6-12
7A											1°													UM6-12
7B																								UM6-12

Comments 1:	URD WORK COMPLETE 11/21/14	Start Ftg:	End Ftg:
Comments 2:		Start Ftg:	End Ftg:
Comments 3:		Start Ftg:	End Ftg:

Septic:	<input type="checkbox"/>	Row 1: PT 2 TO 3--DEAN ZIMMERMAN 88-4-8H	Rd Permit	<input type="checkbox"/>																																																		
Priv Elec:	<input type="checkbox"/>	Row 2: PT 14 TO 14-1 & 16 TO 18--KEVIN KASELLA 88-7-10H	Cty Permit	<input checked="" type="checkbox"/>																																																		
LP Line:	<input type="checkbox"/>	Line Ext\$	Bore/Push\$	Permit\$	Ped/Loop\$	Total\$	Twp Permit	<input type="checkbox"/>																																														
Sprinkler:	<input type="checkbox"/>	Socket on Site <input type="checkbox"/> Backfill Comments:					State Permit	<input type="checkbox"/>																																														
Final Grade:	<input type="checkbox"/>	Final Grade Comments:					DNR Permit	<input checked="" type="checkbox"/>																																														
Brushing:	<input type="checkbox"/>	Brushing Comments:					Joint Trench	<input type="checkbox"/>																																														
Trees:	<input type="checkbox"/>	Trees Comments:					Notify TWP	<input type="checkbox"/>																																														
					<table border="1"> <thead> <tr> <th>Wire/Cables/Ser Size</th> <th>WIRE FEET</th> <th># Wires</th> <th>Ground FTG</th> </tr> </thead> <tbody> <tr> <td>500 MCM 15KV</td> <td>59703</td> <td>3</td> <td>20100</td> </tr> <tr> <td>2.5 INNERDUCT</td> <td>4500</td> <td>3</td> <td>1550</td> </tr> <tr> <td>477 ACSR</td> <td>13617</td> <td>3</td> <td>4539</td> </tr> <tr> <td>4/0 ACSR</td> <td>277</td> <td>1</td> <td>277</td> </tr> <tr> <td>1/0 25KV SOL</td> <td>4541</td> <td>3</td> <td>4847</td> </tr> <tr> <td>4/0 25KV JAC</td> <td>204</td> <td>3</td> <td>68</td> </tr> <tr> <td>4/0 ACSR</td> <td>18032</td> <td>4</td> <td>4508</td> </tr> <tr> <td>1/0 25KV</td> <td>134</td> <td>1</td> <td>134</td> </tr> <tr> <td>1/0 25KV SOL</td> <td>827</td> <td>1</td> <td>827</td> </tr> <tr> <td>4 ACSR</td> <td>180</td> <td>2</td> <td>90</td> </tr> </tbody> </table>		Wire/Cables/Ser Size	WIRE FEET	# Wires	Ground FTG	500 MCM 15KV	59703	3	20100	2.5 INNERDUCT	4500	3	1550	477 ACSR	13617	3	4539	4/0 ACSR	277	1	277	1/0 25KV SOL	4541	3	4847	4/0 25KV JAC	204	3	68	4/0 ACSR	18032	4	4508	1/0 25KV	134	1	134	1/0 25KV SOL	827	1	827	4 ACSR	180	2	90	Temp. Set:	By:	Comp.:	By:
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4/0 ACSR	18032	4	4508																																																			
1/0 25KV	134	1	134																																																			
1/0 25KV SOL	827	1	827																																																			
4 ACSR	180	2	90																																																			

Staking Sheet -Combination

Const: Ret: Both:

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W/O#: 295265 WP#:

Point	Pri. BSpan	Pri. Wire Size	Pole	OH Assy	Grnd.	Guy E	Lead	Anchor F	Trans G	Light M26-5	Ang.	J Box L Ped	Mod	El-bow	Cap	Spl-ice	Pri. Riser	Sec. Span	Sec. Wire	Sec. Unit	CWP Ped/ Loop	Misc Assy	Remarks
8	2483	(3)500 MCM 15KV			UM48-2						16°	UM33				3						UM6-12	
9	124	(3)500 MCM 15KV									5°												
10	460	(3)500 MCM 15KV									9°											UM6-12	460' BORE
	460	(3)2.5 INNERDUCT																					
10A											25°											UM6-12	
10B											12°											UM6-12	
11	1745	(3)500 MCM 15KV									8°												
12	450	(3)500 MCM 15KV			UM48-3						2°					3						UM6-12	450' BORE
	450	(3)2.5 INNERDUCT																					
13	586	(3)500 MCM 15KV	45-4	C5.71L	H1.1						47°						UC7					S2.32	
				(3)E1.5	H3.1																		
13A			40-4			E1.3L	25	F6.6															
						E3-10																	
						E1.3L	25	F6.6															
						E3-10																	
						E1.3L	31	F6.6															
						E3-10																	
						E1.3L	31	F6.6															
						E3-10																	
14	277	(3)477 ACSR-Pri 4/0 ACSR-Neu	45-4	C2.21P	H1.1	E4.3LG	20	F2.10									UC7						600A CUTOUTS
				C5.71L		(4)E3-10	25	F2.10															
							30	F2.10															
14-1			40-4	C5.71L	H1.1	E1.1	15	F2.8			80°												600A CUTOUTS
						E3-10																	
						E1.1	15	F2.8															
						E3-10																	
						E1.1	15	F2.8															
						E3-10																	
	68	(3)4/0 25KV JAC															UC7						
	2704	(3)1/0 25KV SOL															UC7						

Staking Sheet -Combination

Const: Ret: Both:

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Point	Pri. BSpan	Pri. Wire Size	Pole	OH Assy	Grnd.	Guy E	Lead	Anchor F	Trans G	Light M26-5	Ang.	J Box L Ped	Mod	El-bow	Cap	Spl-ice	Pri. Riser	Sec. Span	Sec. Wire	Sec. Unit	CWP Ped/ Loop	Misc Assy	Remarks	
31			40-5	C5.71L	H1.1	E2.1G	23	F6.6																
						(2)E3-10	23	F6.6																
	246	(4)4/0 ACSR		(3)L1.5		E2.1G	23	F6.6																
				L2.5		(2)E3-10	23	F6.6																
						E1.1	26	F2.8																
						E3-10																		
31-1												UM33	3										(3)UM6-10-25	
31-3	2143	(3)1/0 25KV SOL				UM27-2						UM3-14	1	3									UM6-10-25	
32	400	(3)500 MCM 15KV				UM48-2						UM33				3							UM6-12	
33	160	(3)500 MCM 15KV									2°													110' BORE
	110	(3)2.5 INNERDUCT																						
34	1329	(3)500 MCM 15KV				UM48-2					1°	UM33				3							UM6-12	
34A																							UM6-12	
34B																							UM6-12	
35	2330	(3)500 MCM 15KV				UM48-2					1°	UM33				3							UM6-12	
35-1			40-4	C1.11P	H1.1						123°													
				A5.3		E1.1	15	F2.8															S1.01	
						E3-10																		
35-1A						UM27-2					54°	UM3-14	1	2	1									
35-2	90	(2)4 ACSR	40-5	A5.1	H1.1	E1.1	15	F2.8			56°													
						E3-10																		
35-3	10	1/0 25KV																						
	116	1/0 25KV SOL																						
36	1610	(3)500 MCM 15KV									1°												UM6-12	
36A																							UM6-12	
36B																							UM6-12	



CROSS SECONDARY
FEEDING IRRIGATOR PED

IRIS RD

SPLICE

4
44'CL

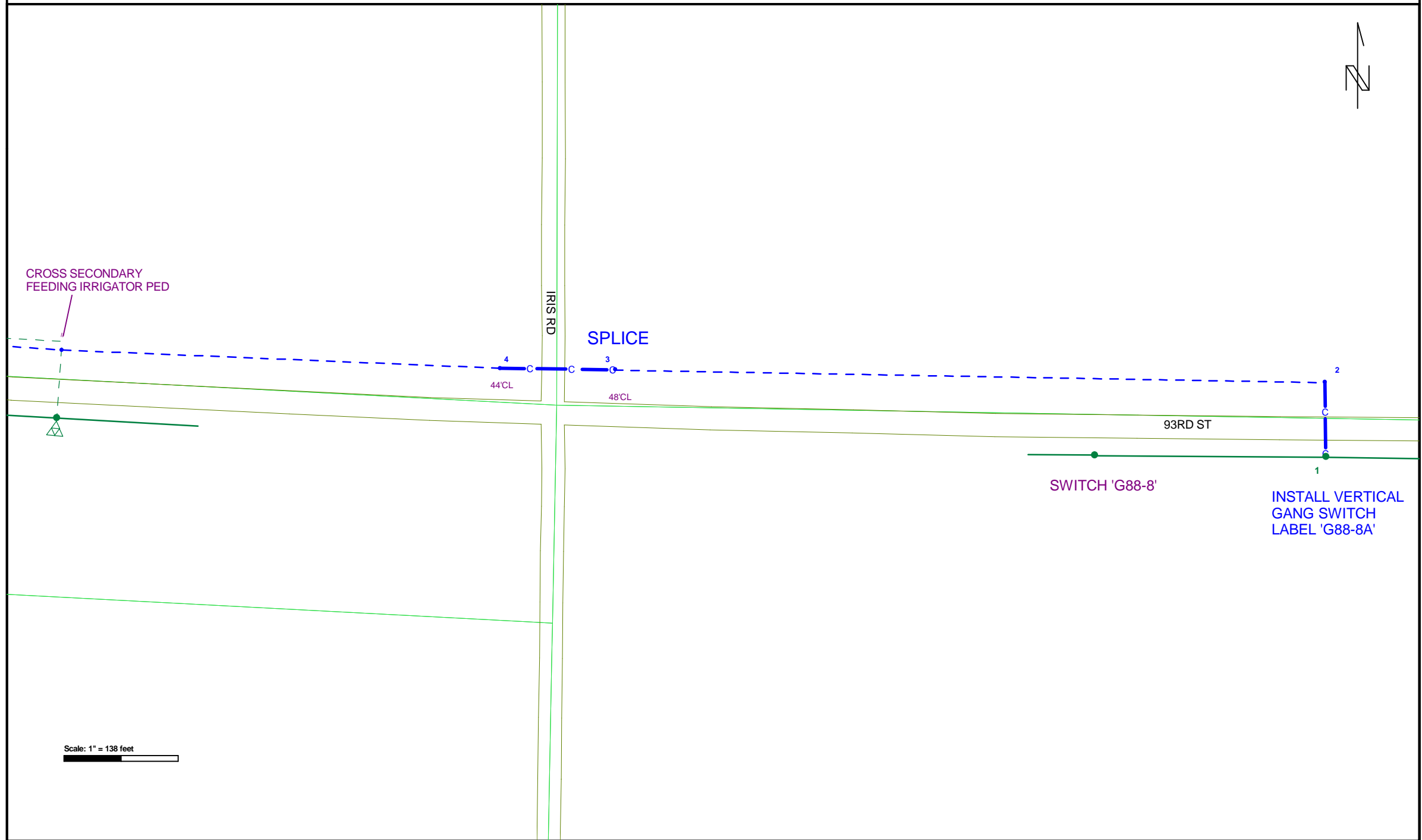
3
48'CL

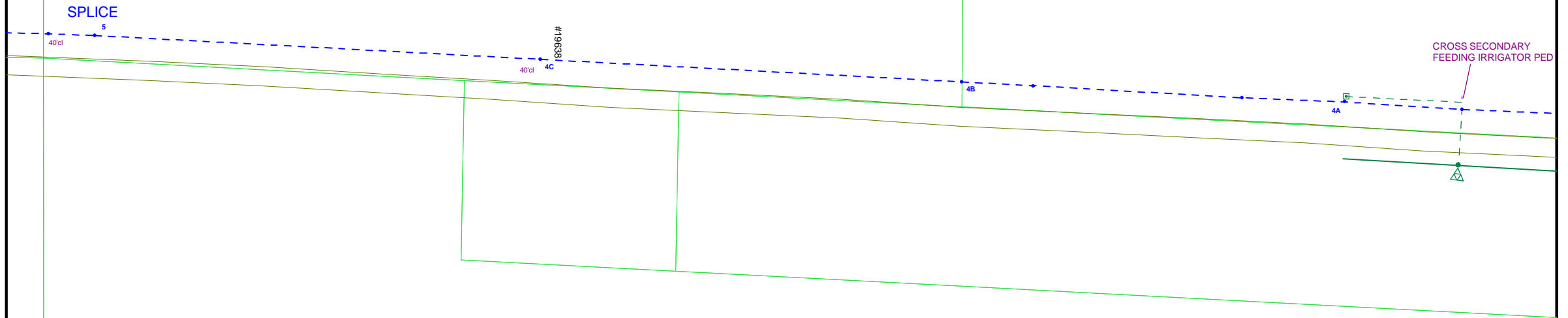
93RD ST

SWITCH 'G88-8'

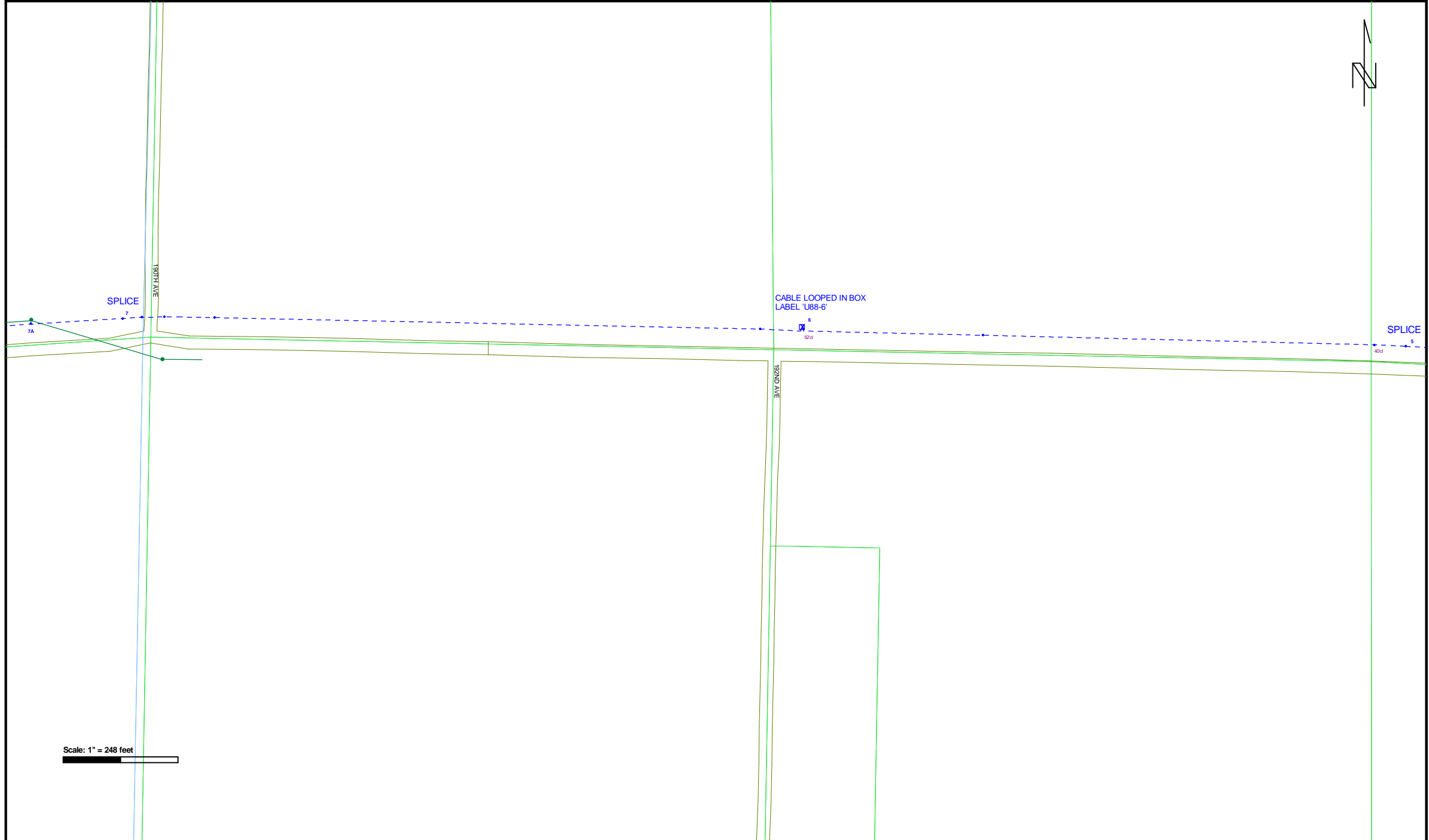
INSTALL VERTICAL
GANG SWITCH
LABEL 'G88-8A'

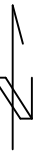
Scale: 1" = 138 feet





Scale: 1" = 185 feet





190TH AVE

SPLICE

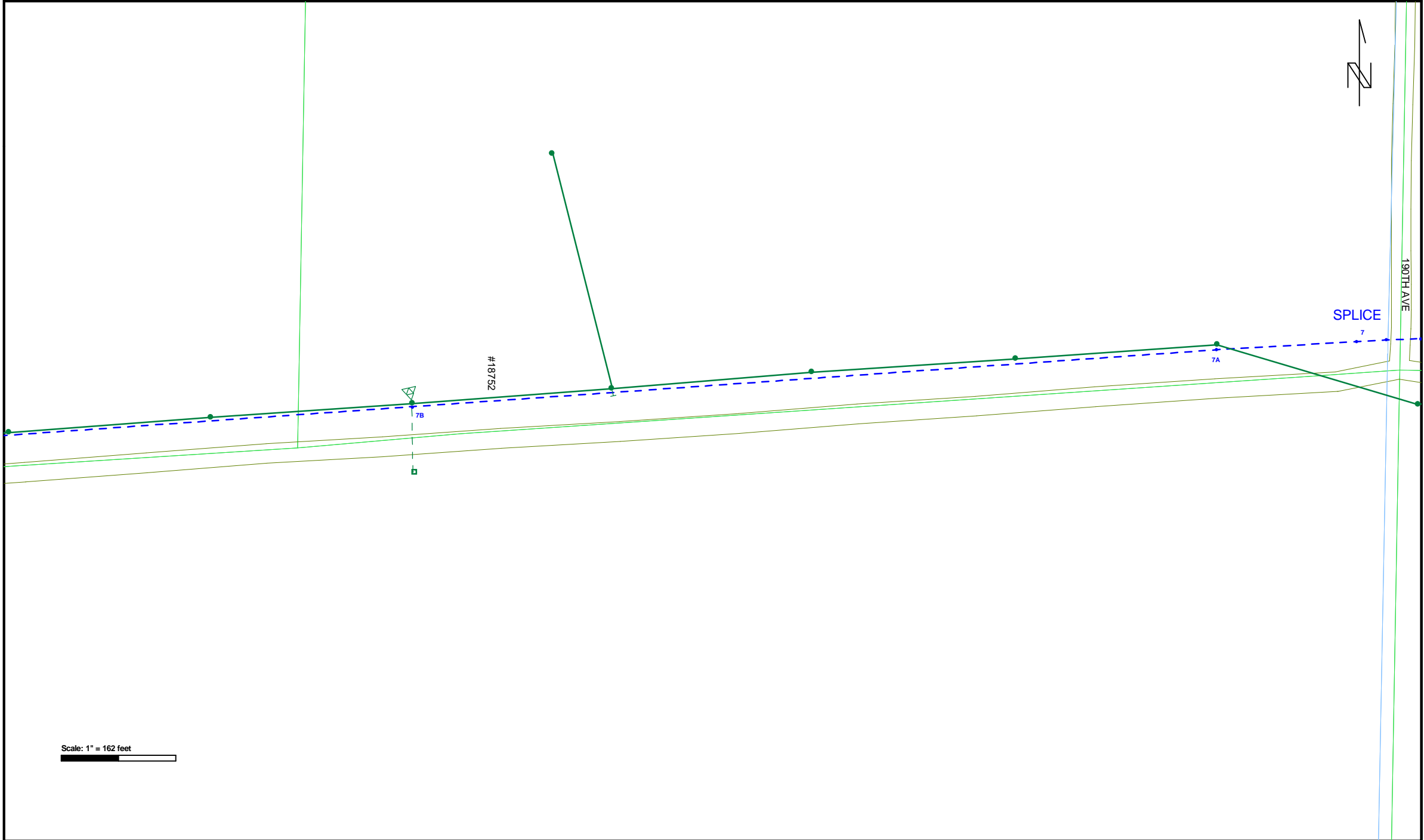
7

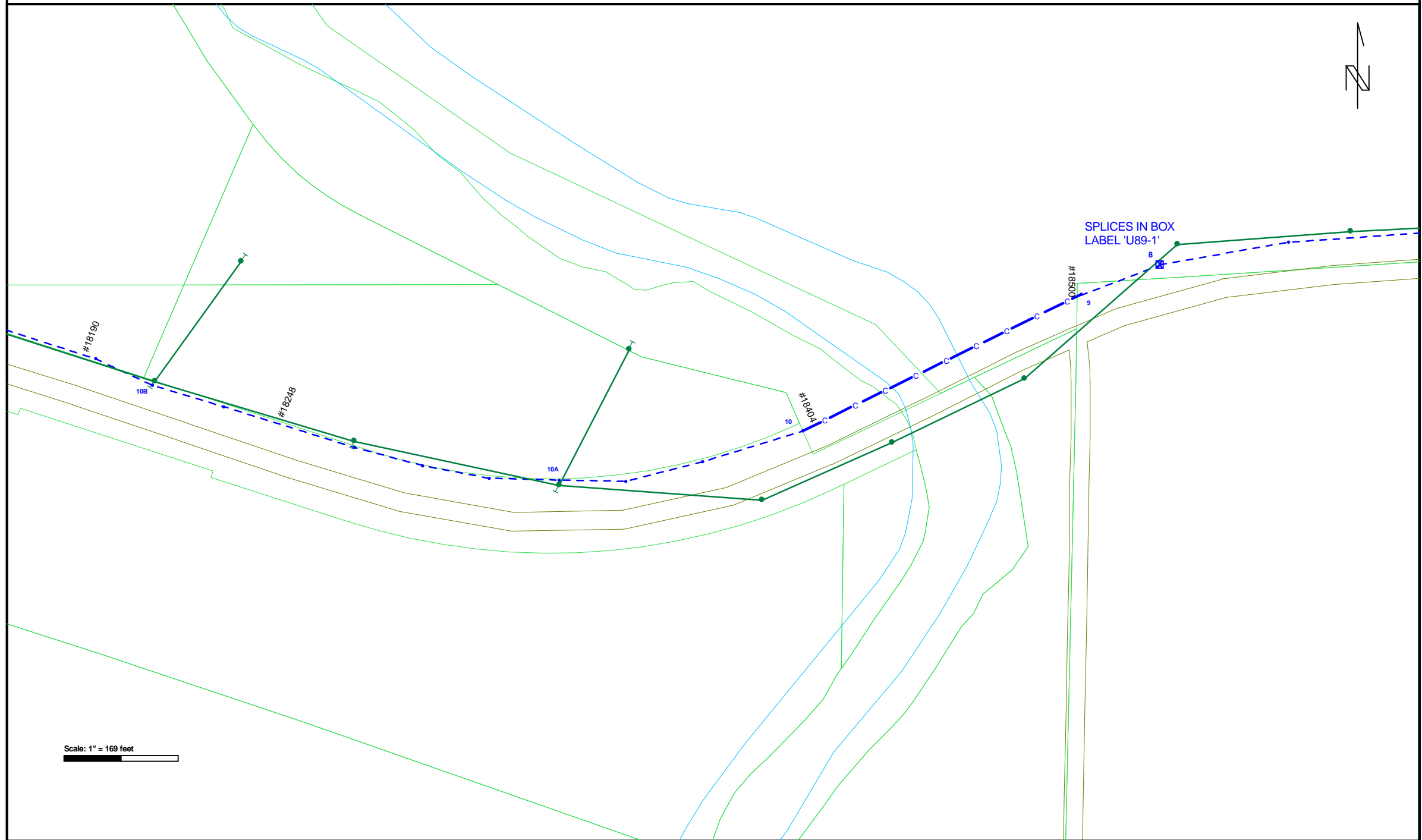
7A

#18752

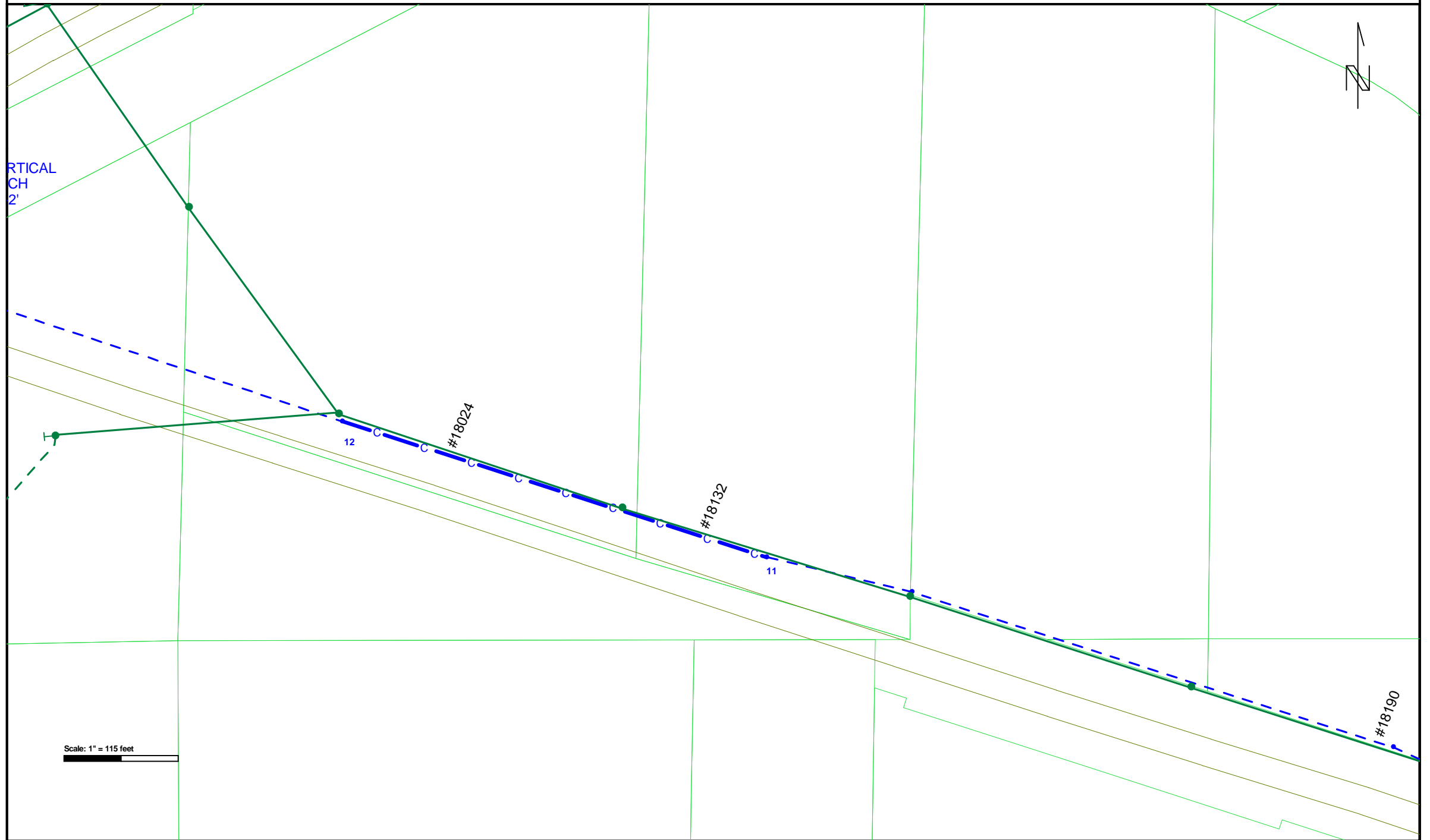
7B

Scale: 1" = 162 feet





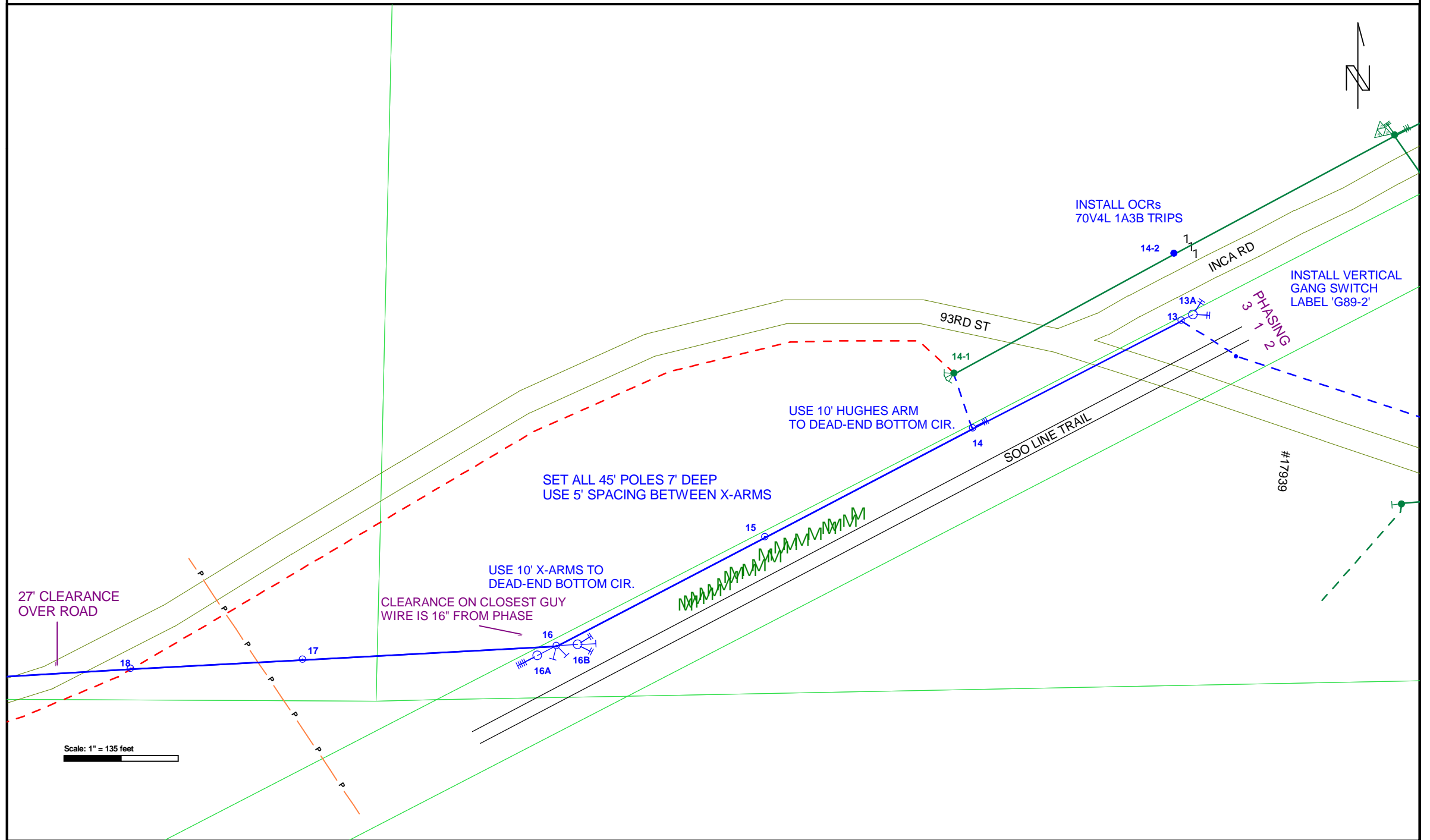
Scale: 1" = 169 feet



Scale: 1" = 115 feet

VERTICAL
CH
2'





89-2-5
House

*C9496

24-1

24

#17400

SET 8' DEEP

23

22

21

20

19

18

SET 8 1/2' DEEP

31-3

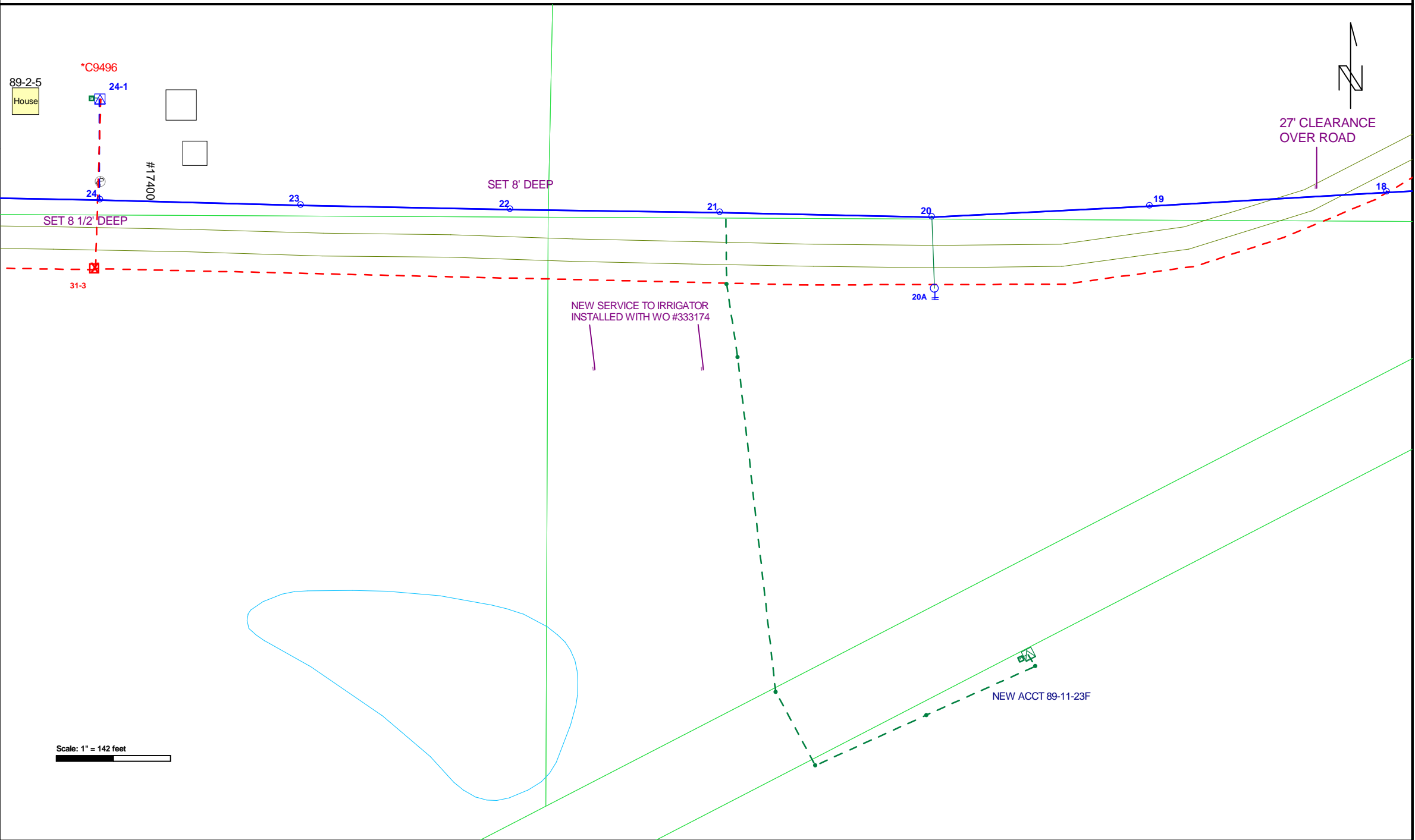
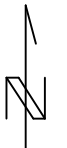
NEW SERVICE TO IRRIGATOR
INSTALLED WITH WO #333174

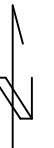
20A

27' CLEARANCE
OVER ROAD

NEW ACCT 89-11-23F

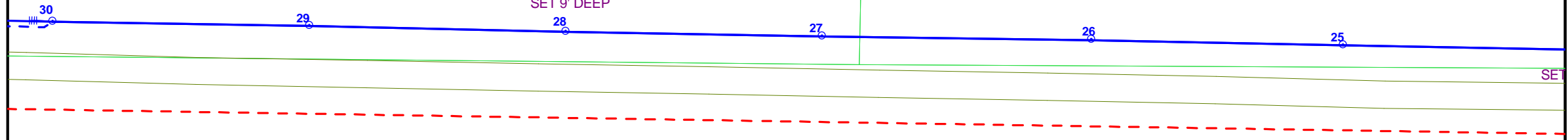
Scale: 1" = 142 feet





89-2-5
House

SET 8' DEEP
USE ROCK TO FILL
AT PT 28 AND 29
SET 9' DEEP



Scale: 1" = 130 feet



SPLICES IN BOX
LABEL 'U89-3A'

34

SPLICES IN BOX
LABEL 'U89-2'

32

31

PHASING
3
1
2

30

170TH AVE

93RD ST

31-1

111

48' cl

45' cl

43' cl

Scale: 1" = 166 feet



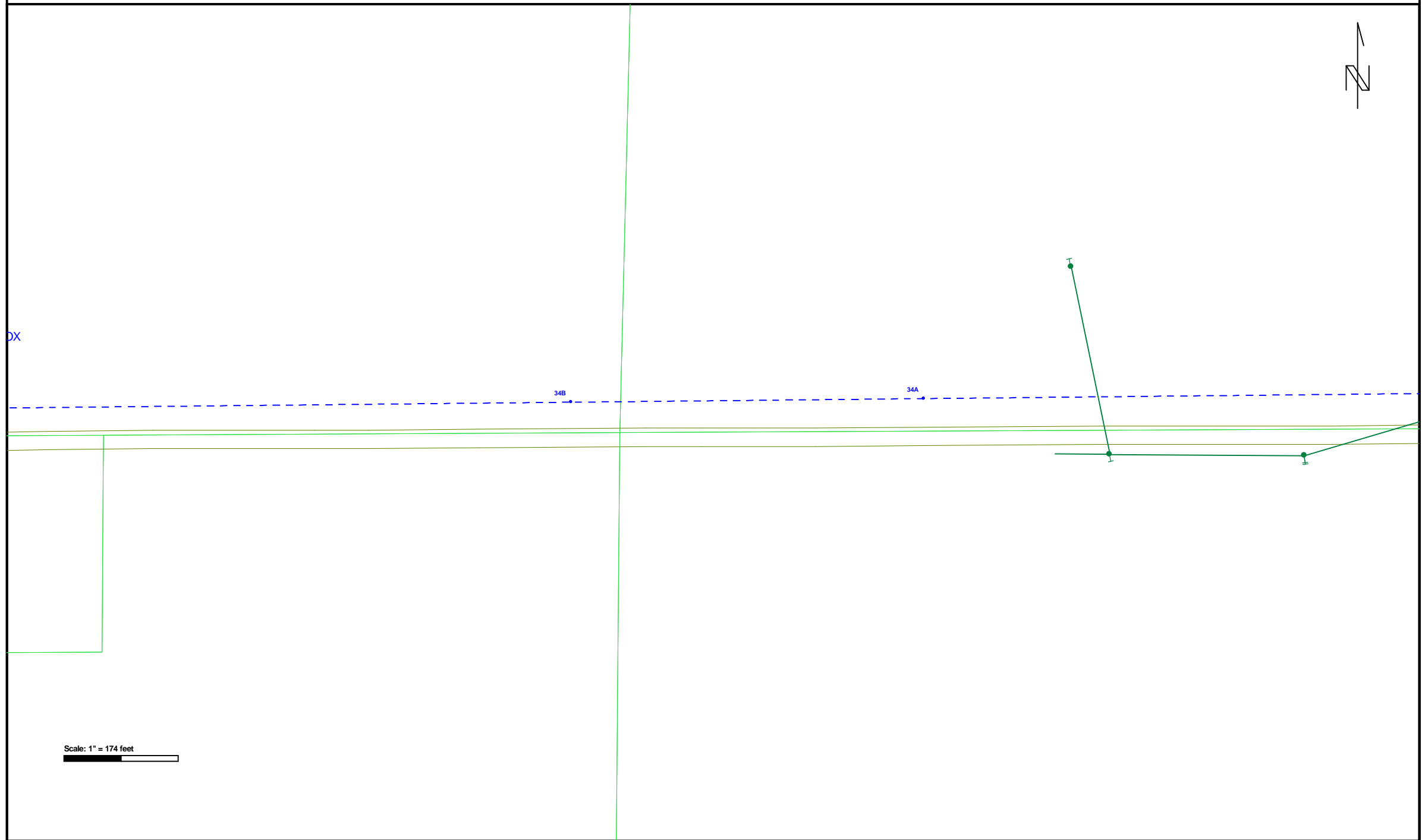


DX

34B

34A

Scale: 1" = 174 feet





SPLICES IN BOX
LABEL 'U89-3'

#16128

#16318

TO 89-3-6A

35-3

35-3

35

50'cl

15T FUSE

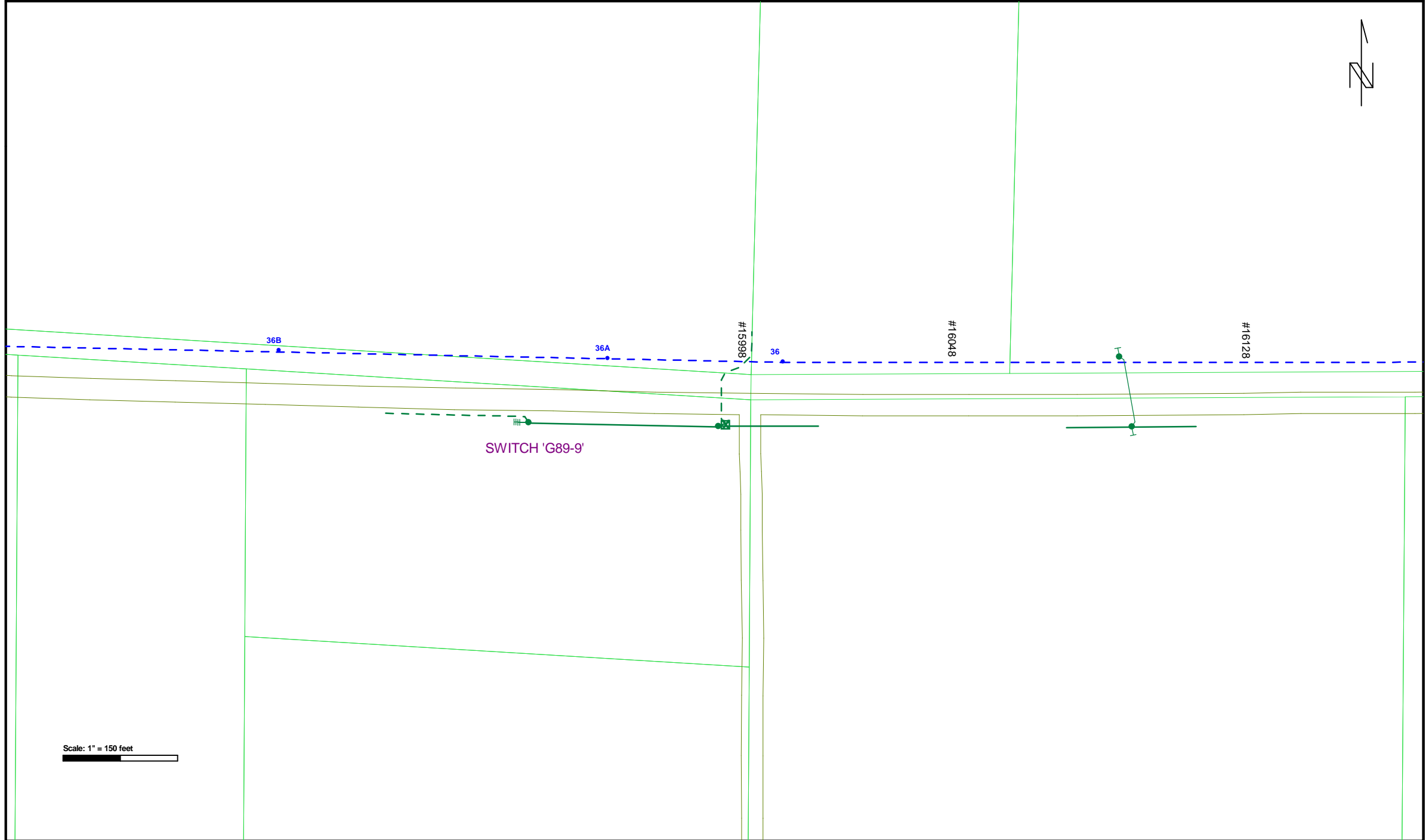
9371U

35-1

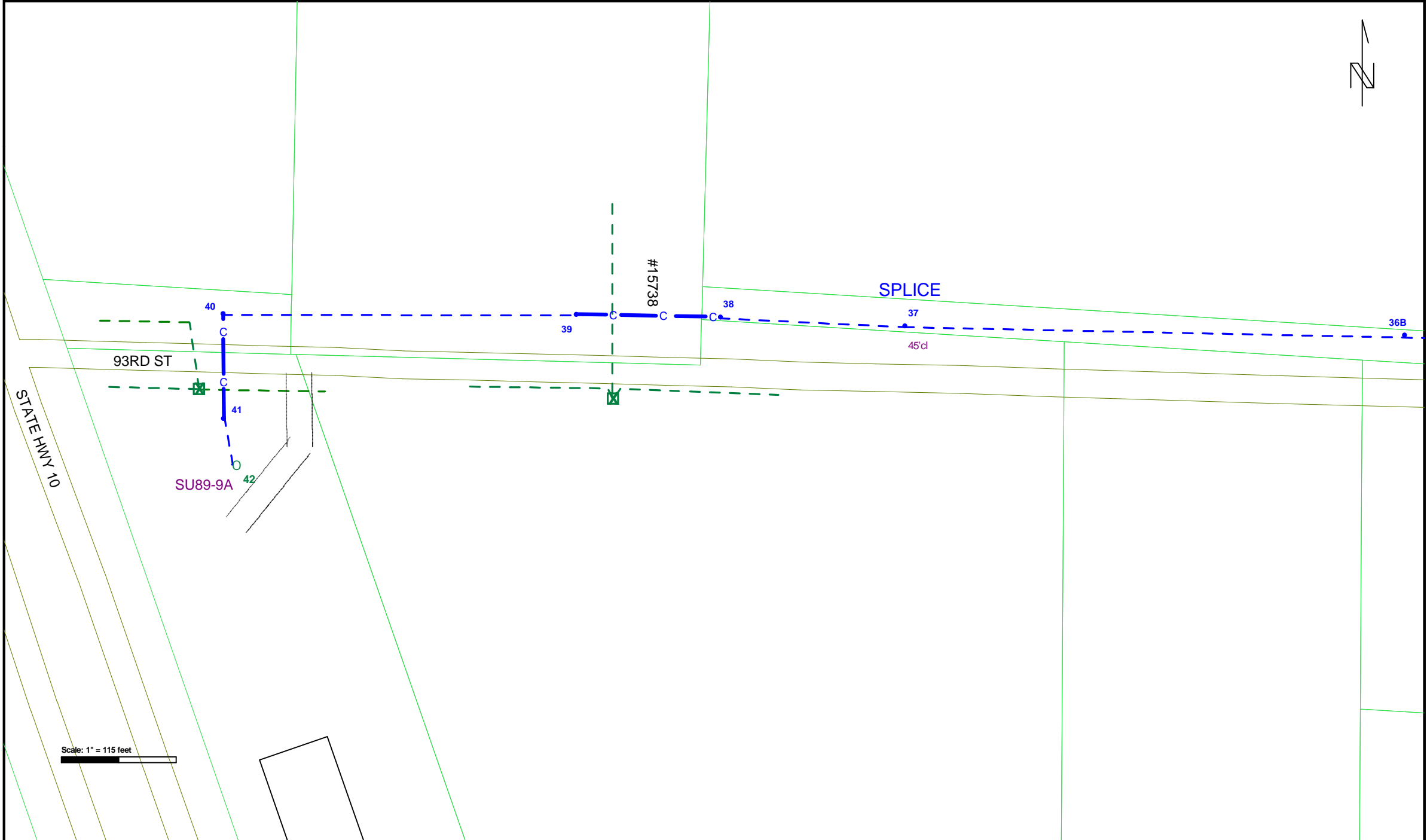
35-1A

Scale: 1" = 118 feet





Scale: 1" = 150 feet



Scale: 1" = 115 feet