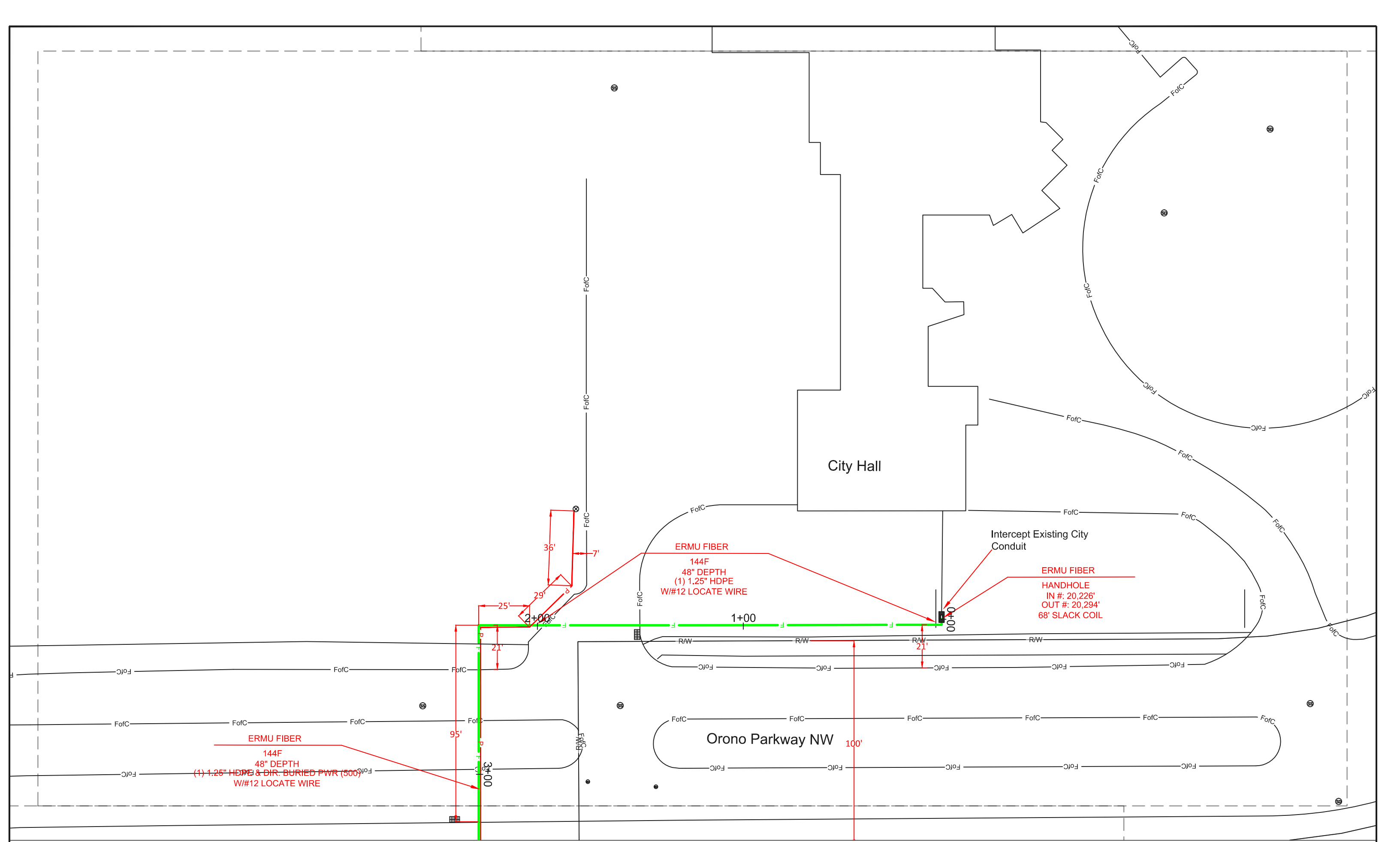


Legend

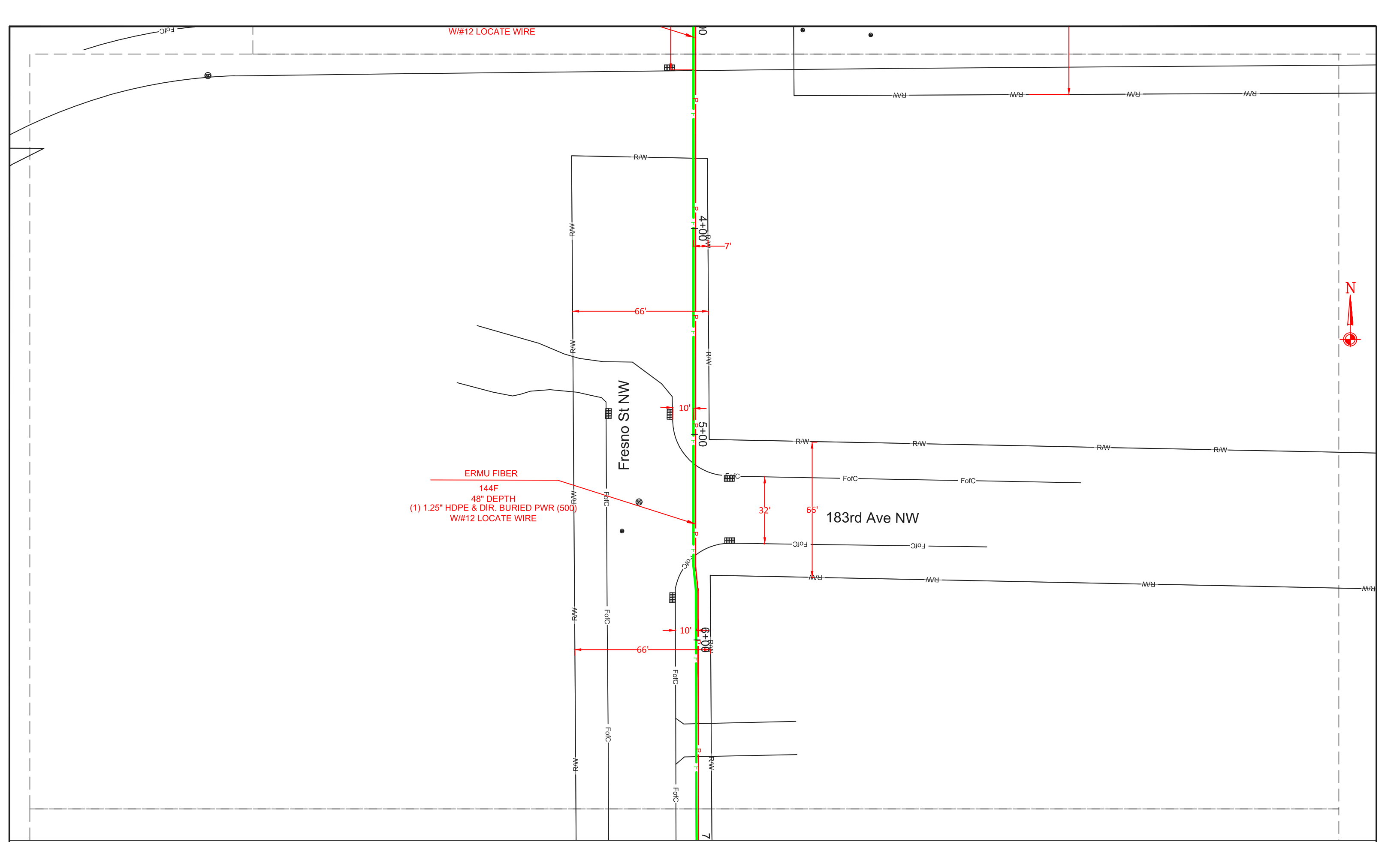
- Buried Fiber ——— P ———
- Aerial Fiber ——— F ———
- Handhole
- Pole



01	Elk River	ERMU	
		West Route As-builts	

Prepared By:
 Mi-Tech Services Inc.
 Twin Cities Office
 Rogers, MN 55374
 763-428-1496
 Contact: Doug Heider

SCALE: 1" = 40'	DRAWN BY: SJH
PRINT DATE: 12/28/12	STATUS: As-builts
FILENAME: ElkRiver.dwg	Page 1 of 34

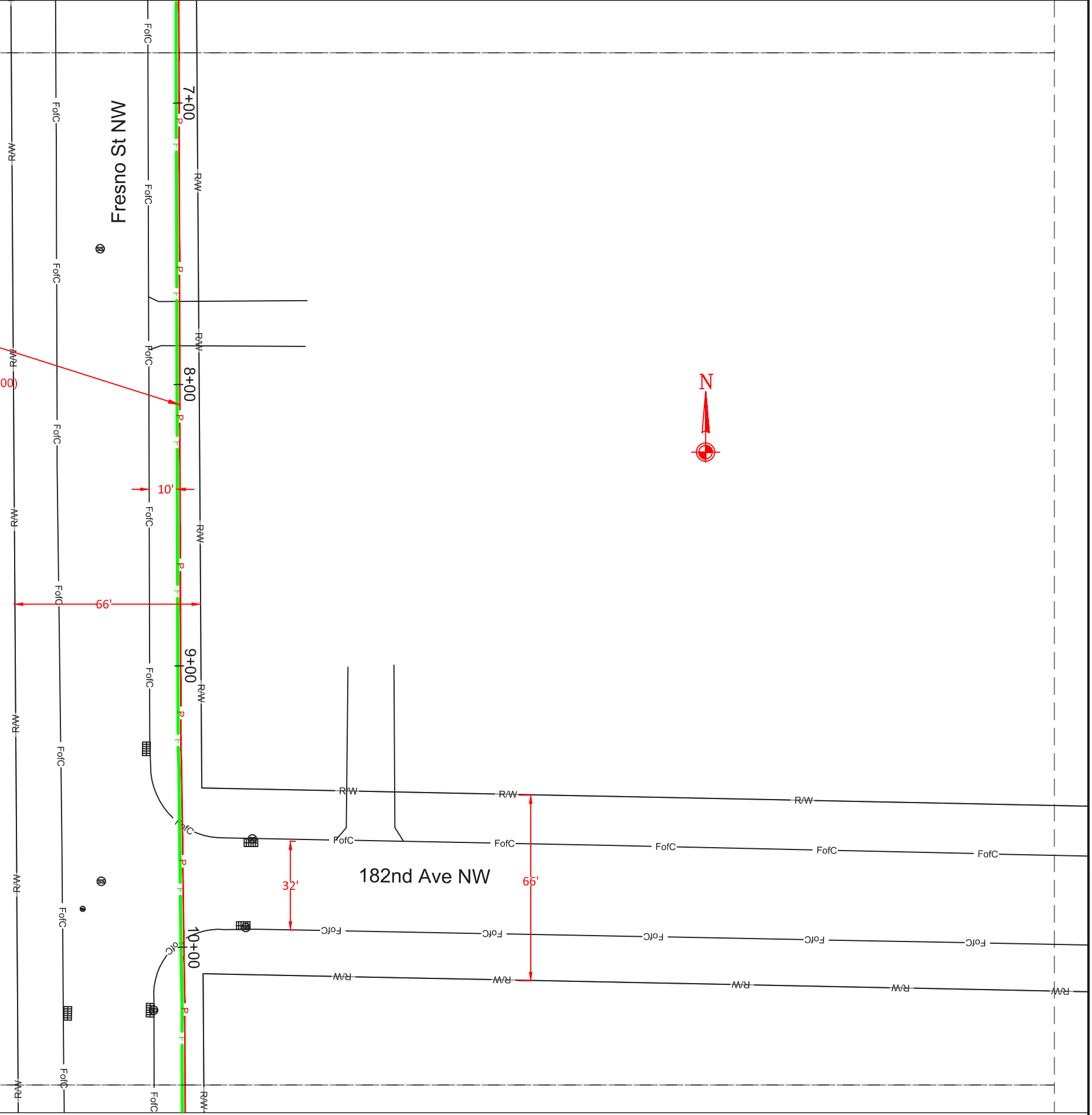


ERMU FIBER
 144F
 48" DEPTH
 (1) 1.25" HDPE & DIR. BURIED PWR (500)
 W#12 LOCATE WIRE



Fresno St NW

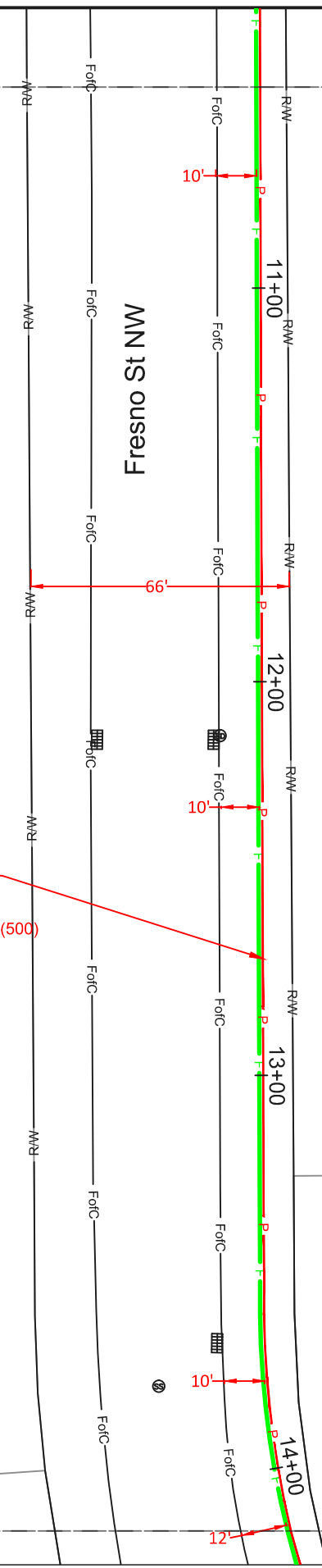
182nd Ave NW

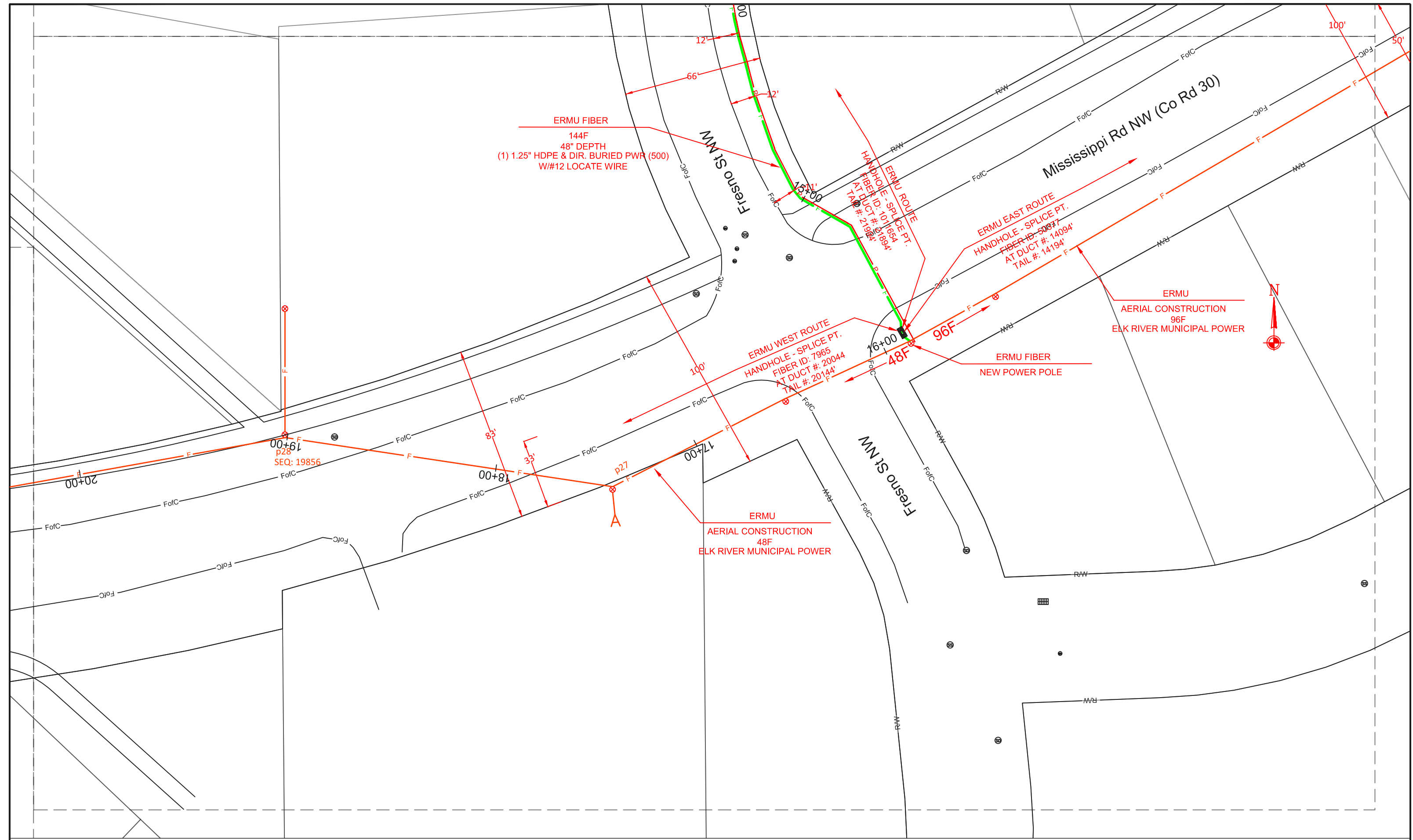


ERMU FIBER
 144F
 48" DEPTH
 (1) 1.25" HDPE & DIR. BURIED PWR (500)
 W/#12 LOCATE WIRE

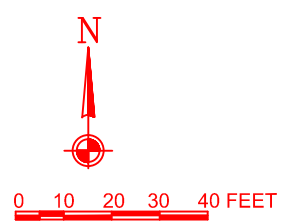
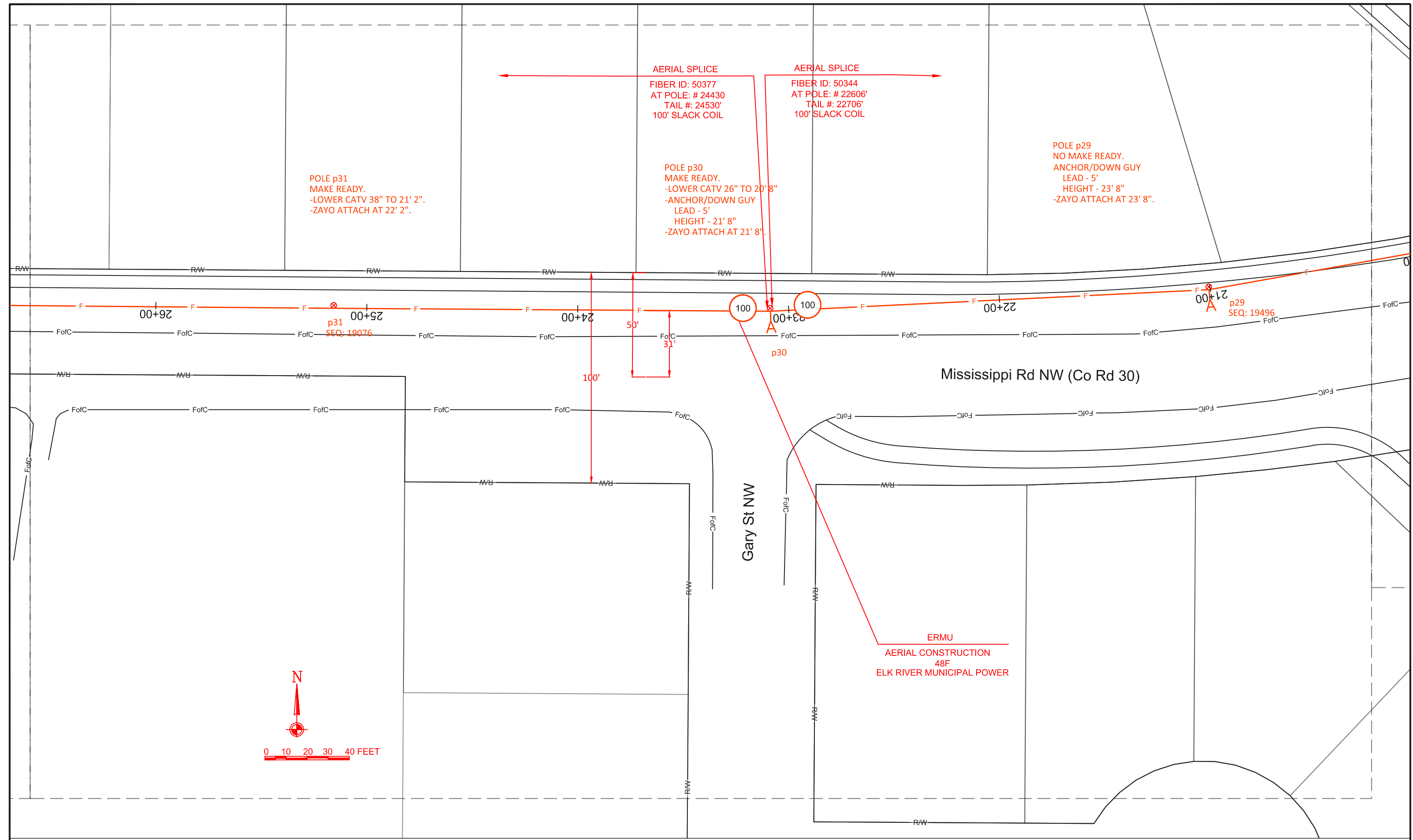


Fresno St NW

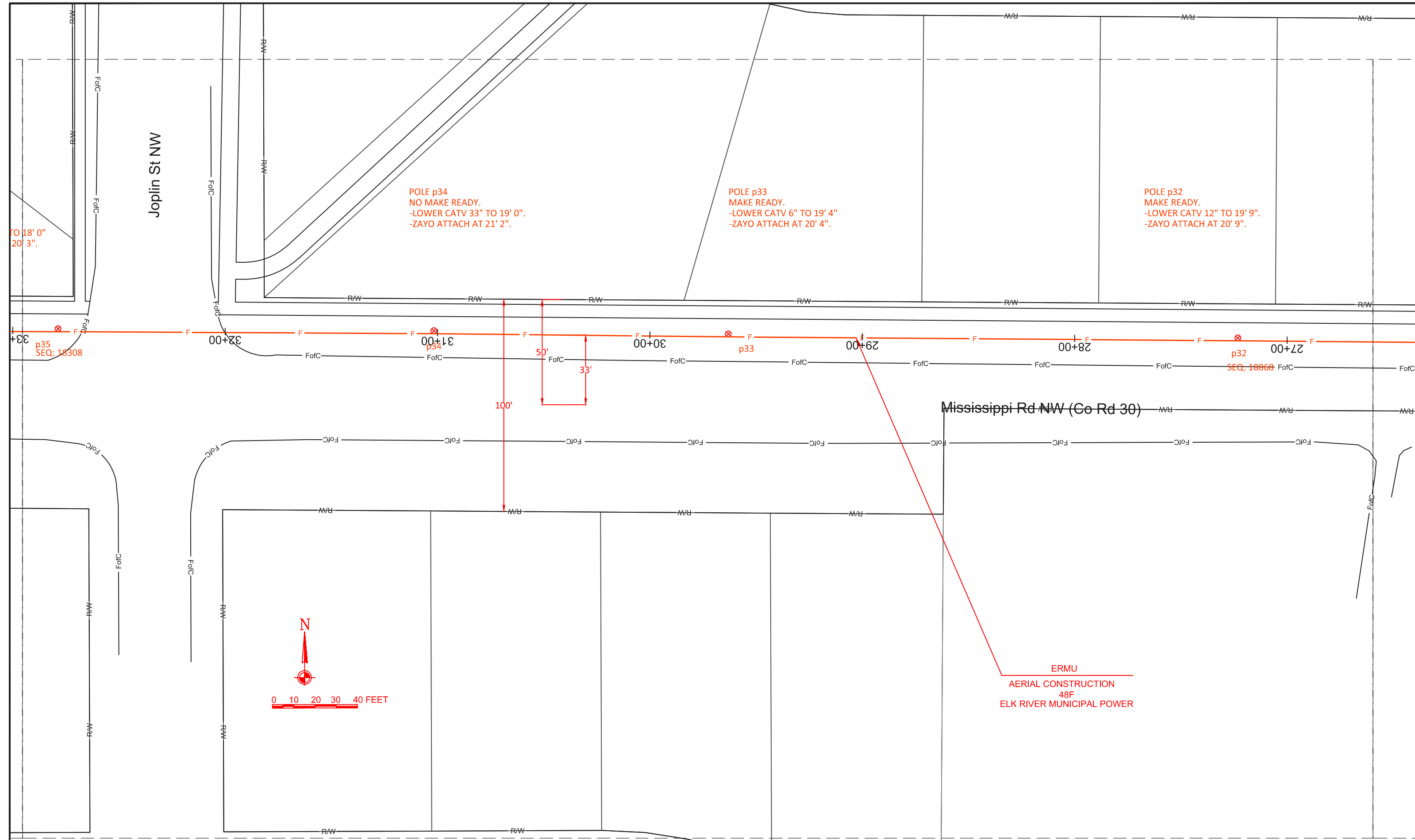




05	Elk River	ERMU		Prepared By: Mi-Tech Services Inc. Twin Cities Office Rogers, MN 55374 763-428-1496 Contact: Doug Heider	SCALE: 1" = 40'	DRAWN BY: SJH
		West Route As-builts			PRINT DATE: 12/28/12	STATUS: As-builts
				FILENAME: ElkRiver.dwg	Page 5 of 34	



06	Elk River	ERMU		Prepared By: Mi-Tech Services Inc. Twin Cities Office Rogers, MN 55374 763-428-1496 Contact: Doug Heider	SCALE: 1" = 40'	DRAWN BY: SJH
		West Route As-builts			PRINT DATE: 12/28/12	STATUS: As-builts
				FILENAME: ElkRiver.dwg	Page 6 of 34	



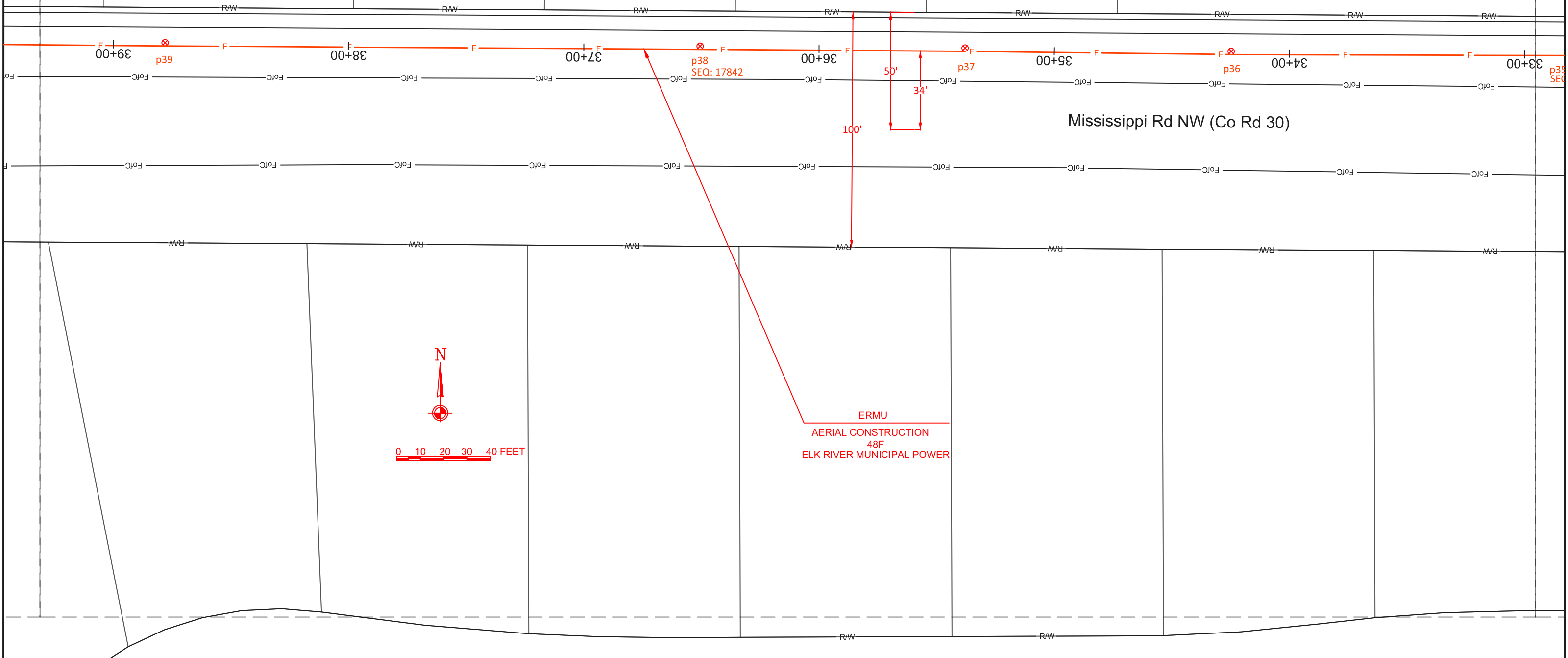
POLE p39
-NO MAKE READY.
-ZAYO ATTACH AT 23' 8".

POLE p38
MAKE READY.
-LOWER CATV 12" TO 22' 8"
-ZAYO ATTACH AT 23' 8".

POLE p37
NO MAKE READY.
-ZAYO ATTACH AT 19' 6".

POLE p36
MAKE READY.
-LOWER CAVT 12" TO 19' 7"
-ZAYO ATTACH AT 20' 7".

POLE p35
MAKE READY.
-LOWER CATV 32" TO 18' 0"
-ZAYO ATTACH AT 20' 3".



Mississippi Rd NW (Co Rd 30)



0 10 20 30 40 FEET

ERMU
AERIAL CONSTRUCTION
48F
ELK RIVER MUNICIPAL POWER

AERIAL SPLICE
 FIBER ID: 50377
 AT POLE: # 21770
 TAIL #: 21854'
 84' SLACK COIL

AERIAL SPLICE
 FIBER ID: 50377
 AT POLE: # 22090
 TAIL #: 21996'
 106' SLACK COIL

POLE p42
 MAKE READY.
 -LOWER CATV 40" TO 20' 9".
 -ZAYO ATTACH AT 21'4".

POLE p41
 MAKE READY.
 -LOWER CATV 12" TO 20' 0"-ZAYO ATTACH
 AT 21'4".

POLE p40
 MAKE READY.
 -LOWER CATV 10" TO 22' 5"
 -ZAYO ATTACH AT 23' 5".

POLE p43
 MAKE READY.
 -LOWER CATV 26" TO 21' 0".
 -ZAYO ATTACH AT 22' 0".



0 10 20 30 40 FEET

Macon St NW

Macon St NW

Mississippi Rd NW (Co Rd 30)

ERMU
 AERIAL CONSTRUCTION
 48F
 ELK RIVER MUNICIPAL POWER

84

106

p43

p42

p41

p40

SEQ: 17284

45+00

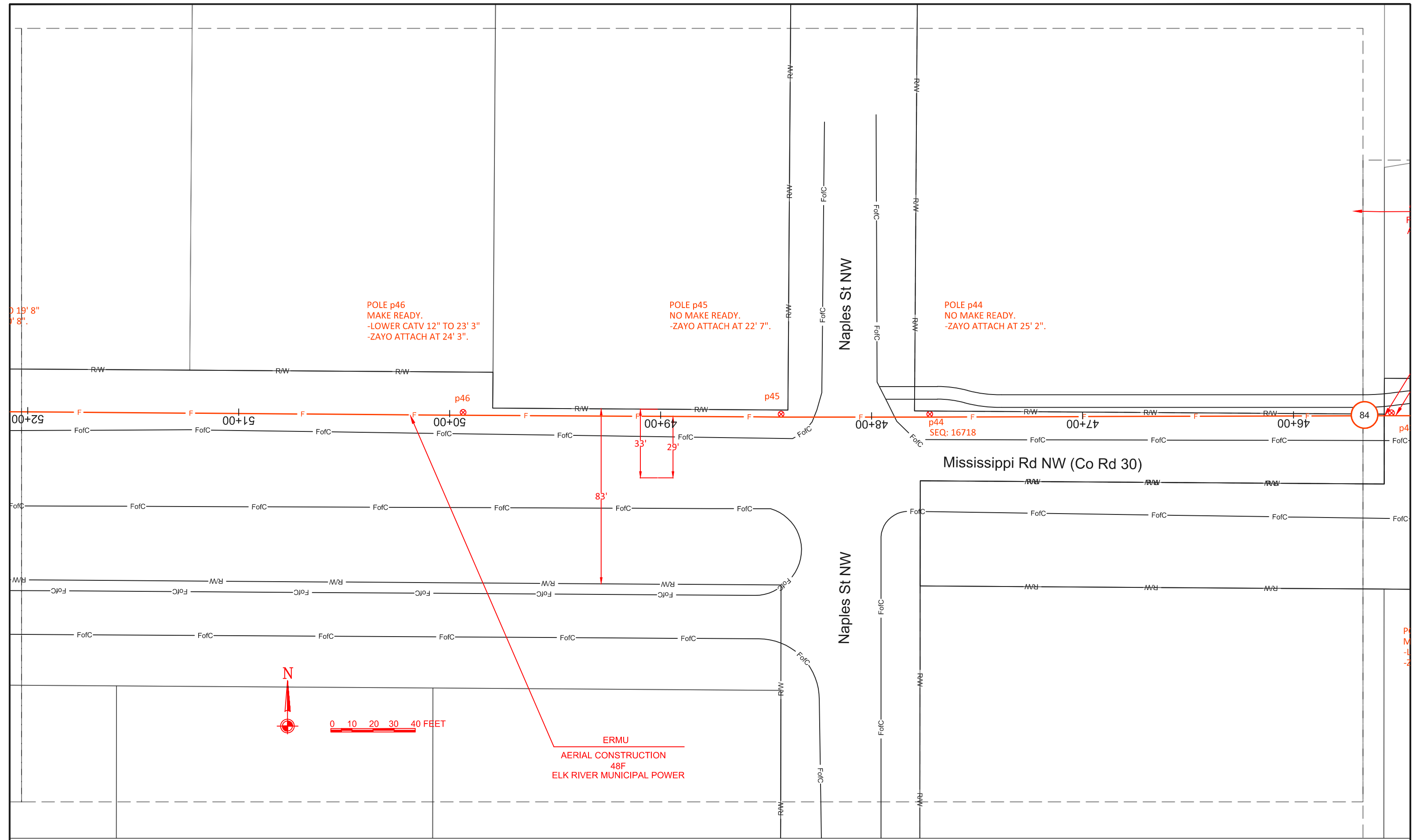
44+00

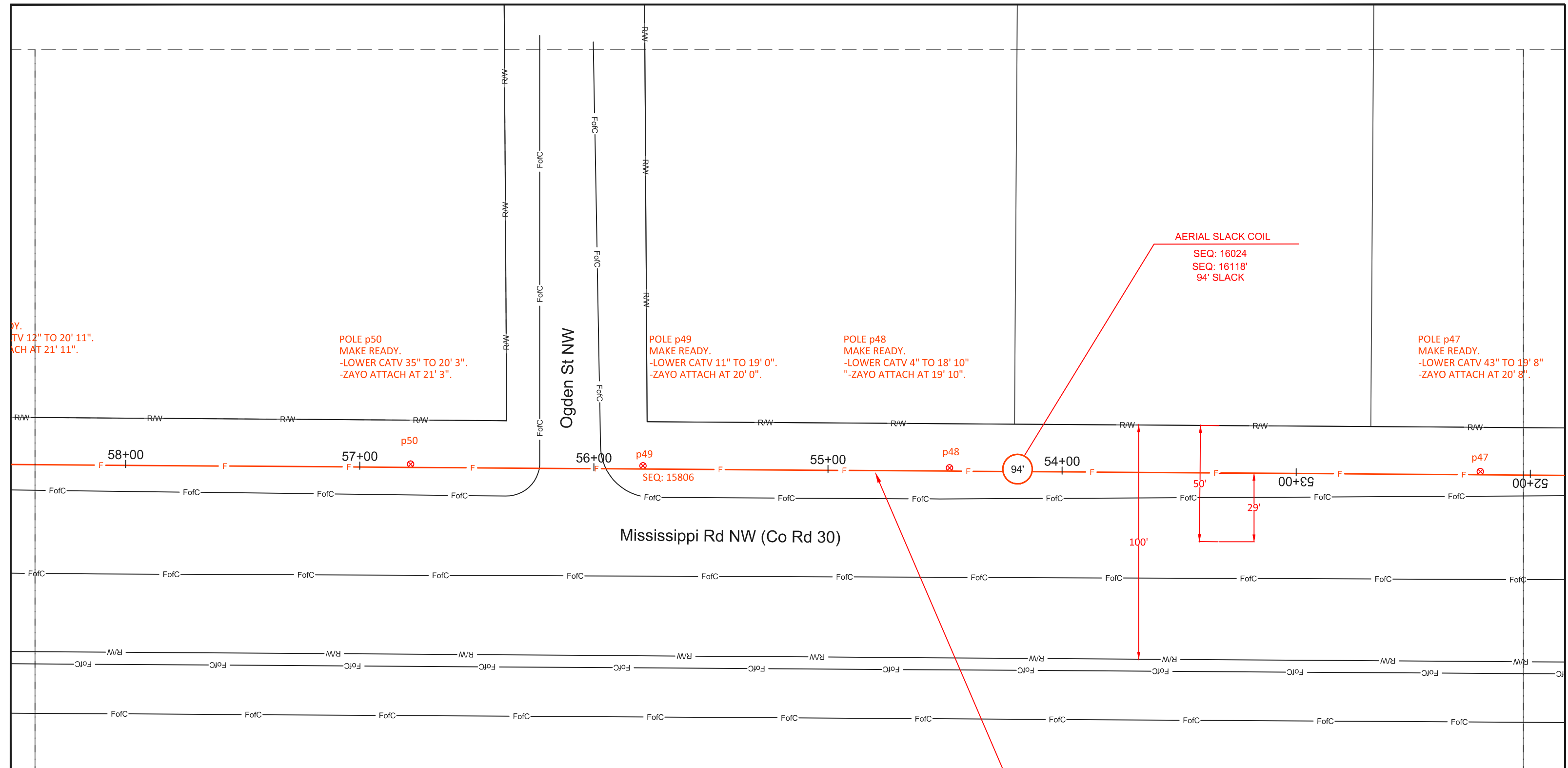
43+00

42+00

41+00

40+00





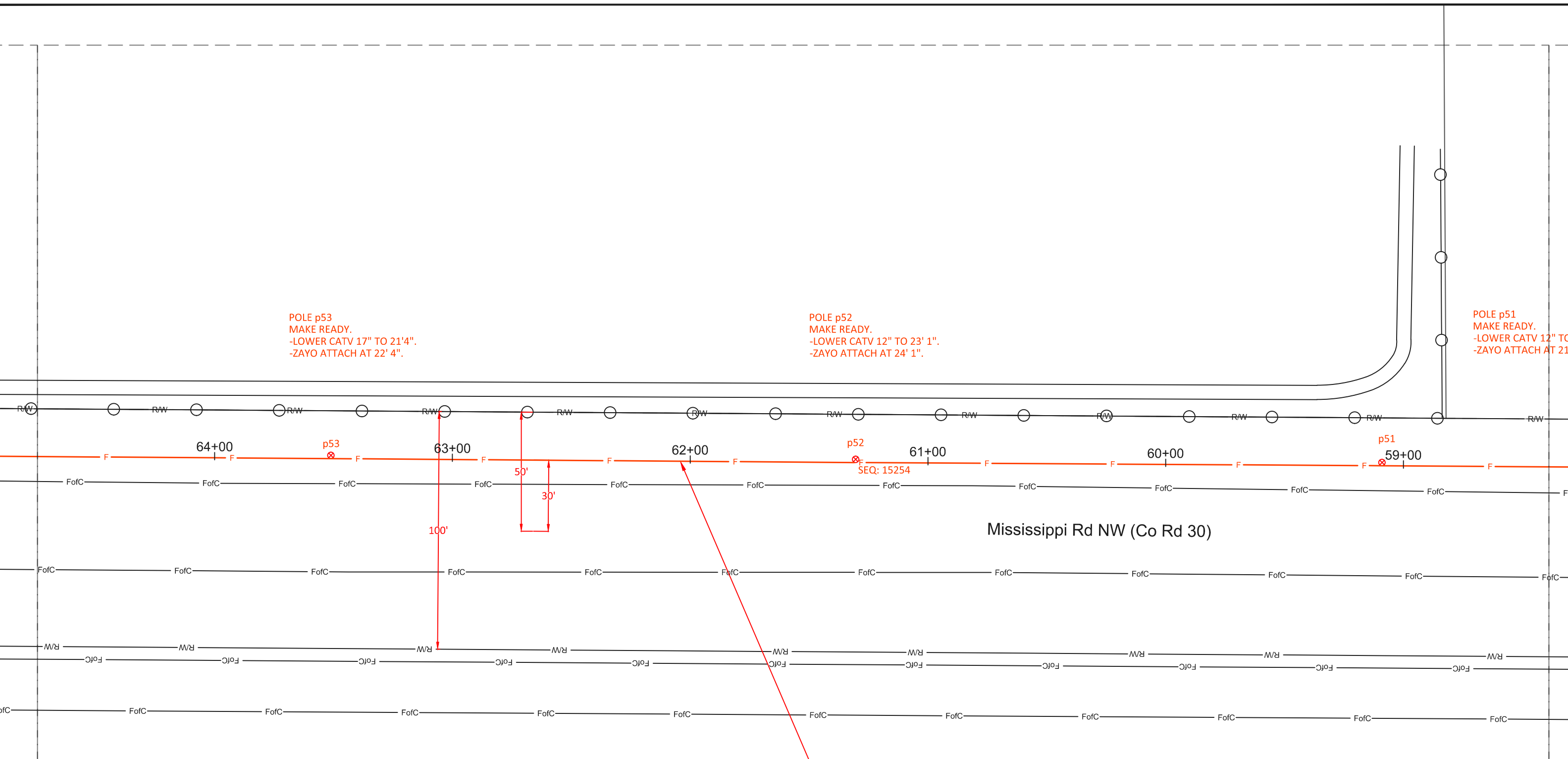
0 10 20 30 40 FEET

11	Elk River	ERMU		Prepared By: Mi-Tech Services Inc. Twin Cities Office Rogers, MN 55374 763-428-1496 Contact: Doug Heider	SCALE: 1" = 40'	DRAWN BY: SJH
		West Route As-builts			PRINT DATE: 12/28/12	STATUS: As-builts
				FILENAME: ElkRiver.dwg		Page 11 of 34

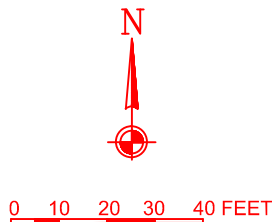
POLE p53
 MAKE READY.
 -LOWER CATV 17" TO 21'4".
 -ZAYO ATTACH AT 22' 4".

POLE p52
 MAKE READY.
 -LOWER CATV 12" TO 23' 1".
 -ZAYO ATTACH AT 24' 1".

POLE p51
 MAKE READY.
 -LOWER CATV 12" TO
 -ZAYO ATTACH AT 21'



Mississippi Rd NW (Co Rd 30)

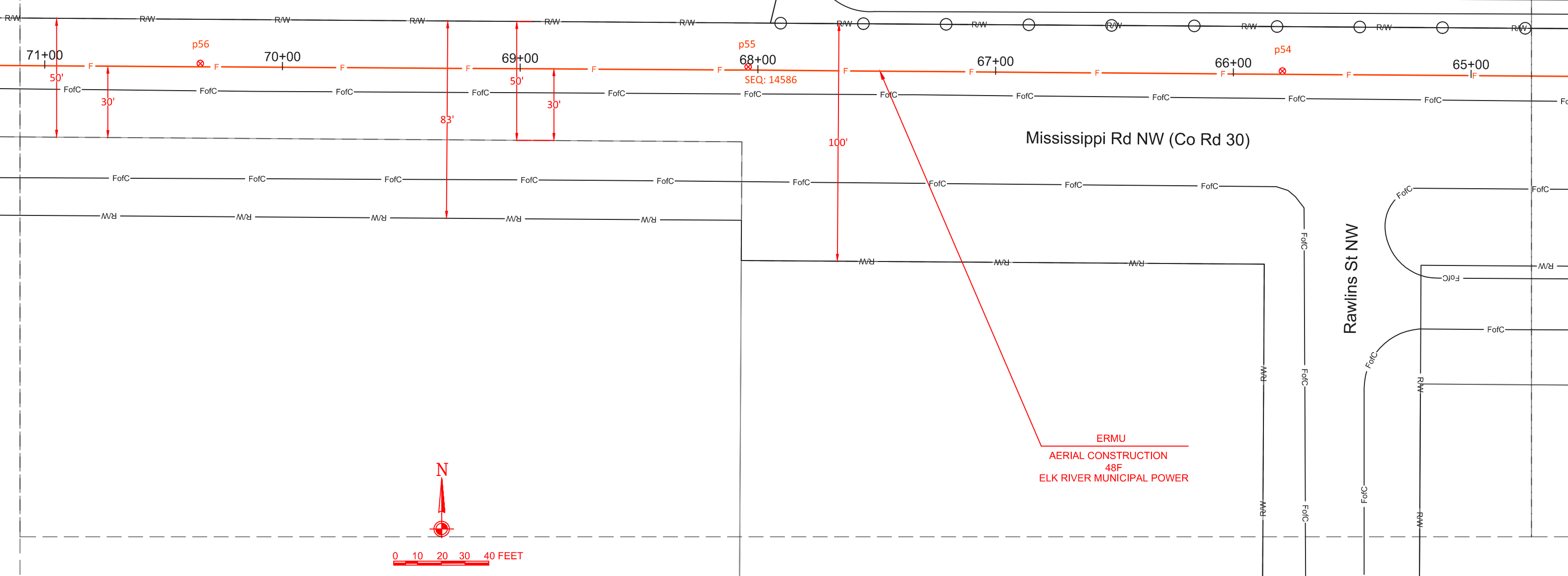


ERMU
 AERIAL CONSTRUCTION
 48F
 ELK RIVER MUNICIPAL POWER

POLE p56
NO MAKE READY.
-ZAYO ATTACH AT 24' 11".

POLE p55
NO MAKE READY.
-ZAYO ATTACH AT 21' 6".

POLE p54
MAKE READY.
-LOWER CATV 19" TO 19' 0".
-ZAYO ATTACH AT 20' 9".

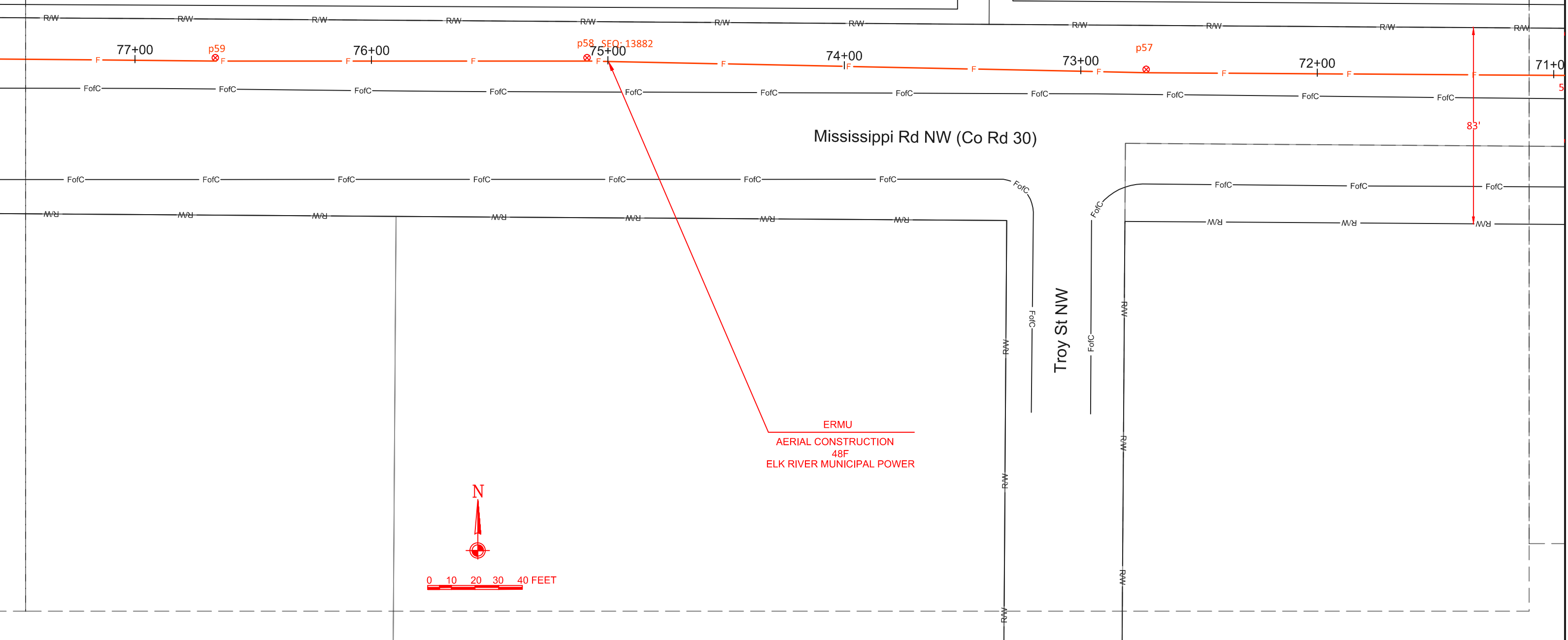


0 10 20 30 40 FEET

POLE p59
NO MAKE READY.
-ZAYO ATTACH AT 21' 9".

POLE p58
NO MAKE READY.
-ZAYO ATTACH AT 22' 6".

POLE p57
NO MAKE READY.
-ZAYO ATTACH AT 23' 4".



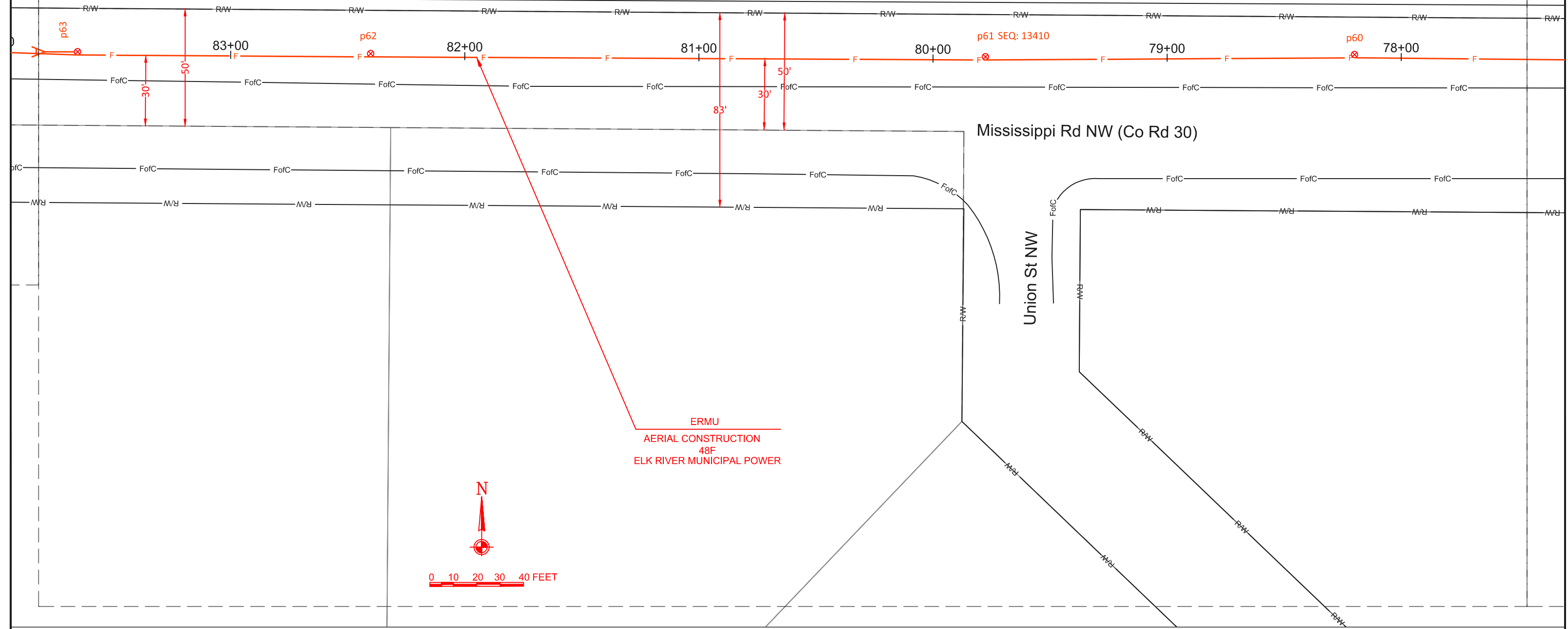
POLE p63
 MAKE READY.
 -LOWER CATV 7" TO 19' 0"
 -ZAYO ATTACH AT 20' 0"
 -ANCHOR/DOWN GUY
 LEAD - 14'
 HEIGHT - 20' 0"
 -SLACK SPAN BETWEEN POLES p63 & p64.

POLE p62
 MAKE READY.
 -LOWER CATV 12" TO 21' 11".
 -ZAYO ATTACH AT 22' 11".

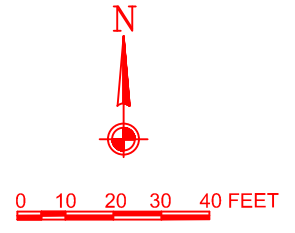
POLE p61
 NO MAKE READY.
 -ZAYO ATTACH AT 21' 1".

POLE p60
 NO MAKE READY.
 -ZAYO ATTACH AT 23' 6".

POLE p59
 NO MAKE READY.
 -ZAYO ATTACH AT 23' 6".



ERMU
 AERIAL CONSTRUCTION
 48F
 ELK RIVER MUNICIPAL POWER





ERMU
AERIAL CONSTRUCTION
48F
ELK RIVER MUNICIPAL POWER

POLE p65
NO MAKE READY.
-ZAYO ATTACH AT 25' 7".
-ANCHOR/DOWN GUY
LEAD - 14'
HEIGHT - 25' 7"
-SLACK SPAN BETWEEN POLES p64 & p56.

POLE p66
NO MAKE READY.
-ZAYO ATTACH AT 27' 0".

AERIAL SLACK COIL
SEQ: 17688
SEQ: 17586'
102' SLACK

POLE p63
MAKE READY.
-LOWER CATV 7" TO 19' 0"
-ZAYO ATTACH AT 20' 0"

Waco St NW

Mississippi Rd NW (CoRd 30)

87+00

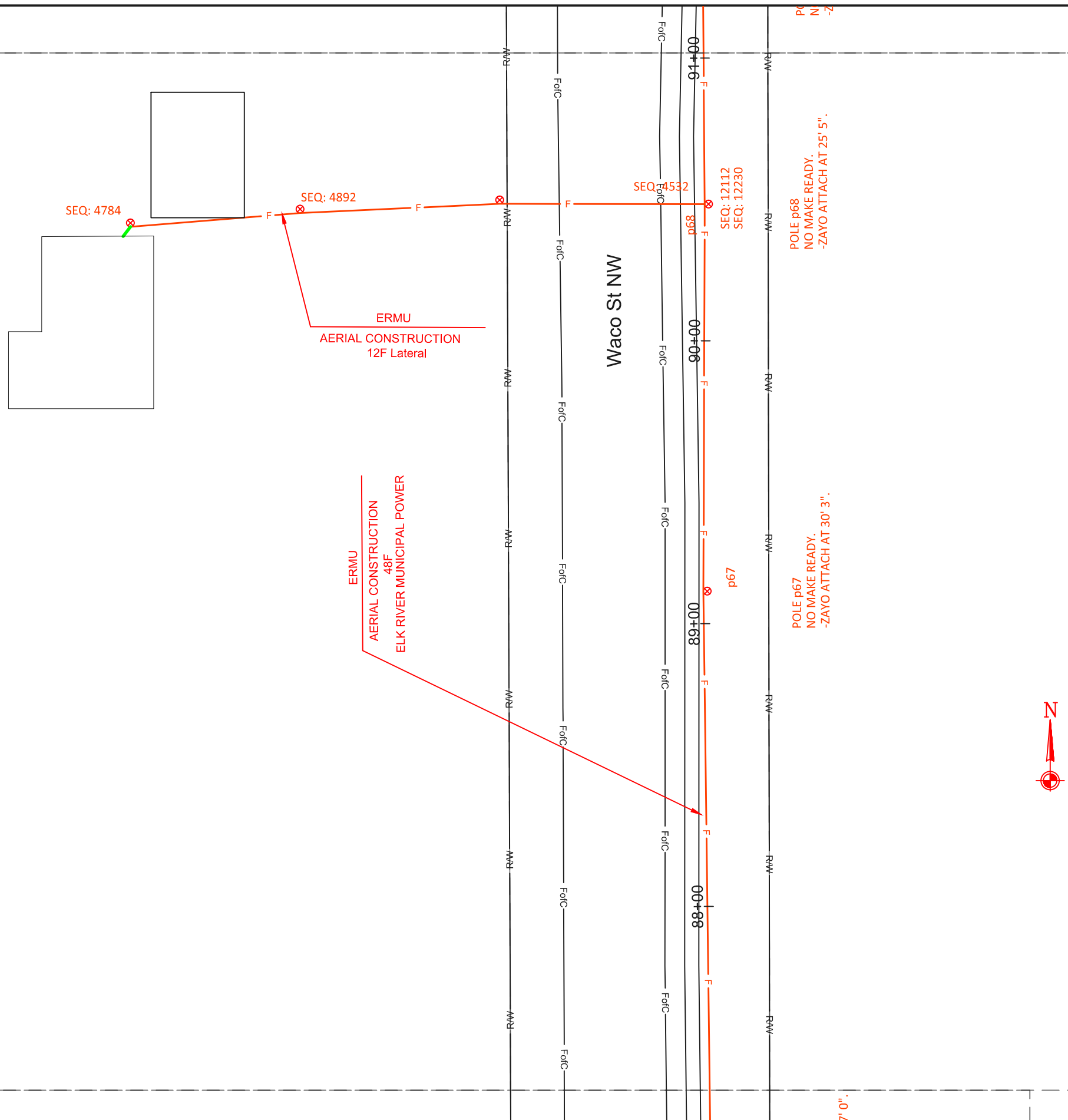
86+00

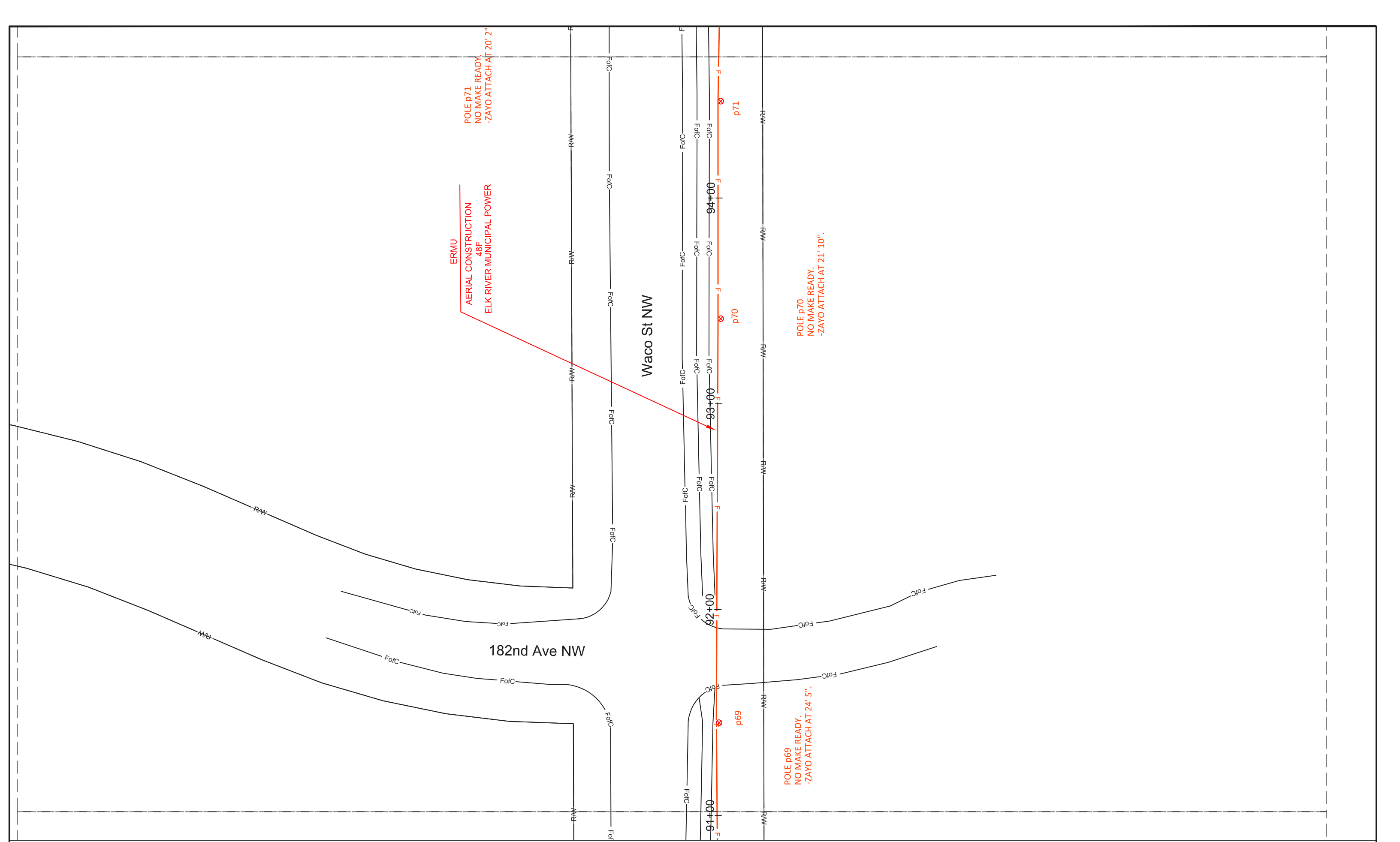
85+00

SEQ: 12826

84+00

p64.
& p65.



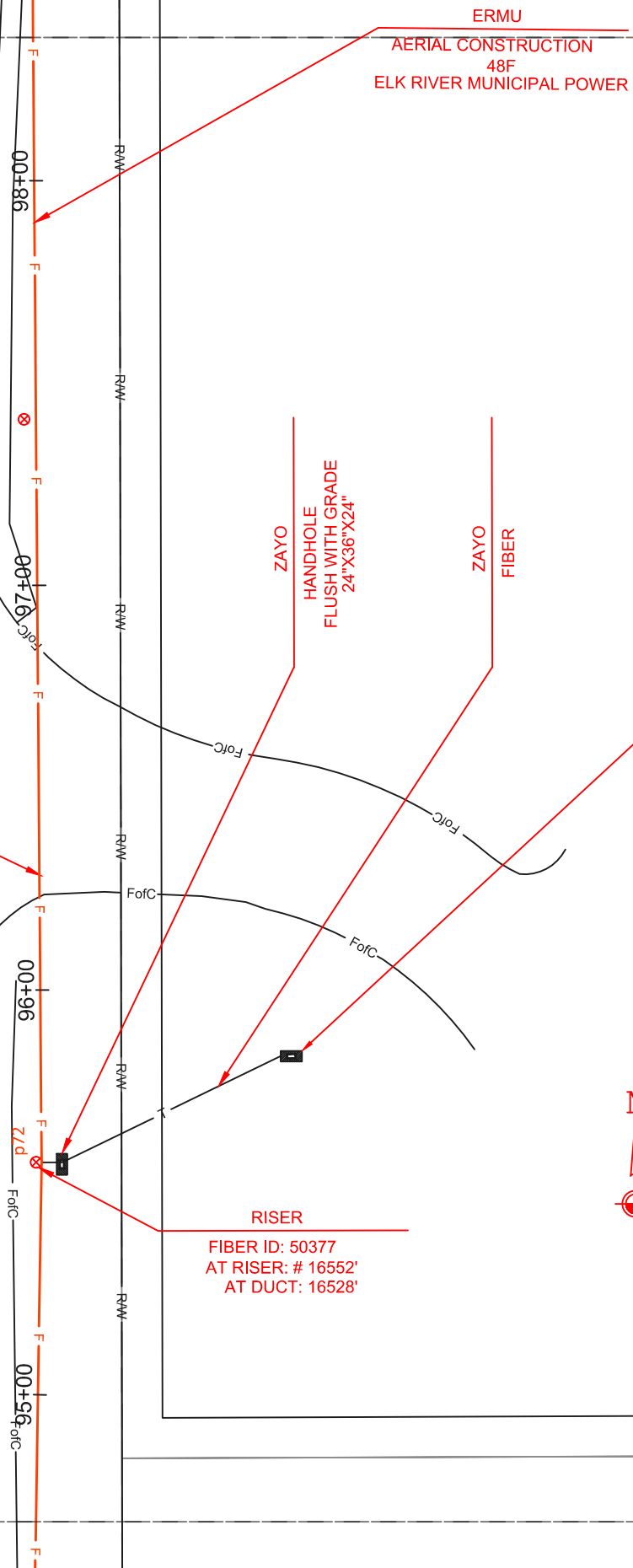


POLE p72
 NO MAKE READY.
 -ZAYO ATTACH AT 21' 6".
 -ANCHOR/DOWN GUY
 LEAD 20'
 HEIGHT 21' 6"

ERMU
 AERIAL CONSTRUCTION
 48F
 ELK RIVER MUNICIPAL POWER

READY.
 TACH AT 20' 2".

Waco St NW



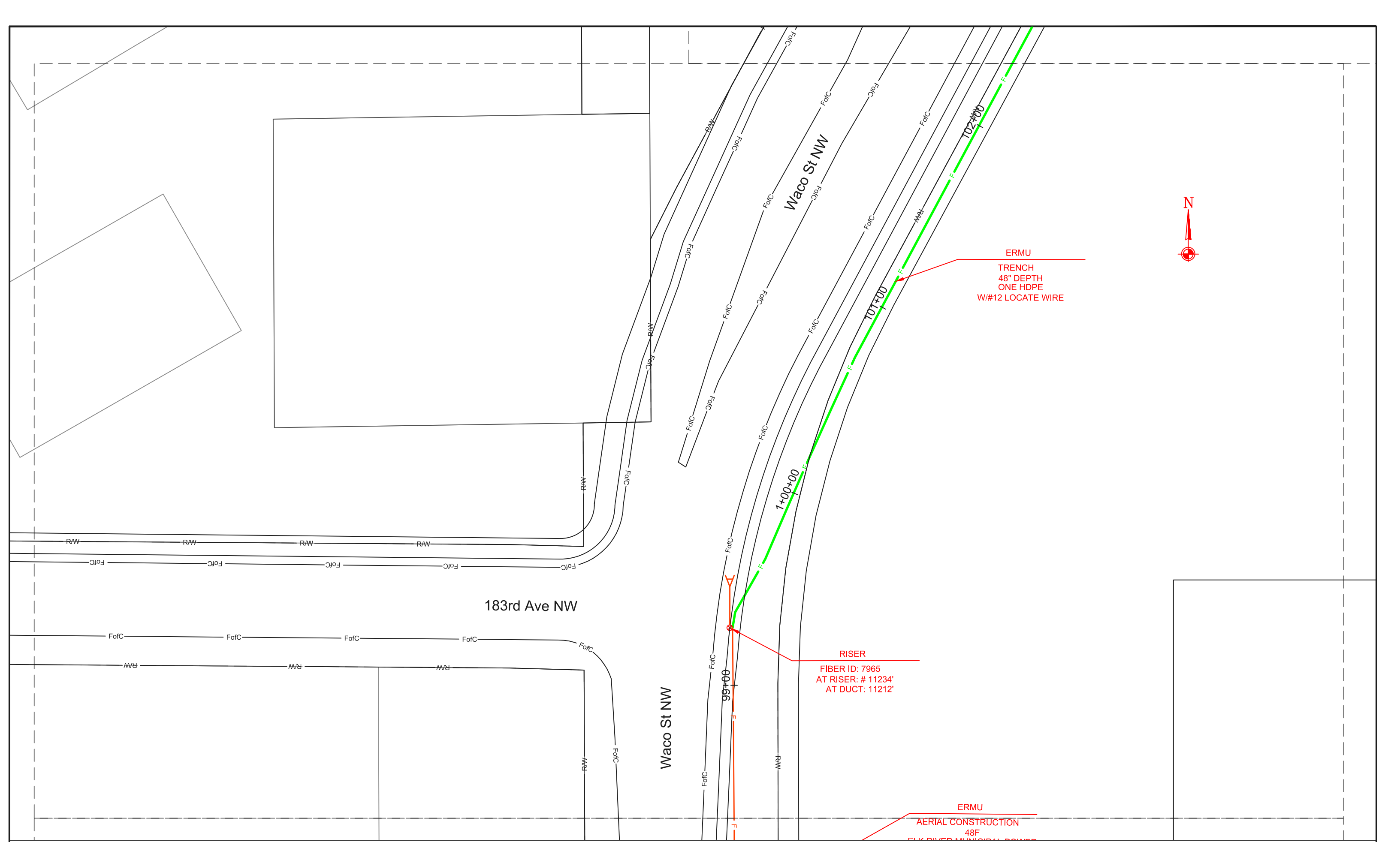
RISER
 FIBER ID: 50377
 AT RISER: # 16552'
 AT DUCT: 16528'

ERMU
 AERIAL CONSTRUCTION
 48F
 ELK RIVER MUNICIPAL POWER

ZAYO
 HANDHOLE
 FLUSH WITH GRADE
 24"X36"X24"

ZAYO
 FIBER

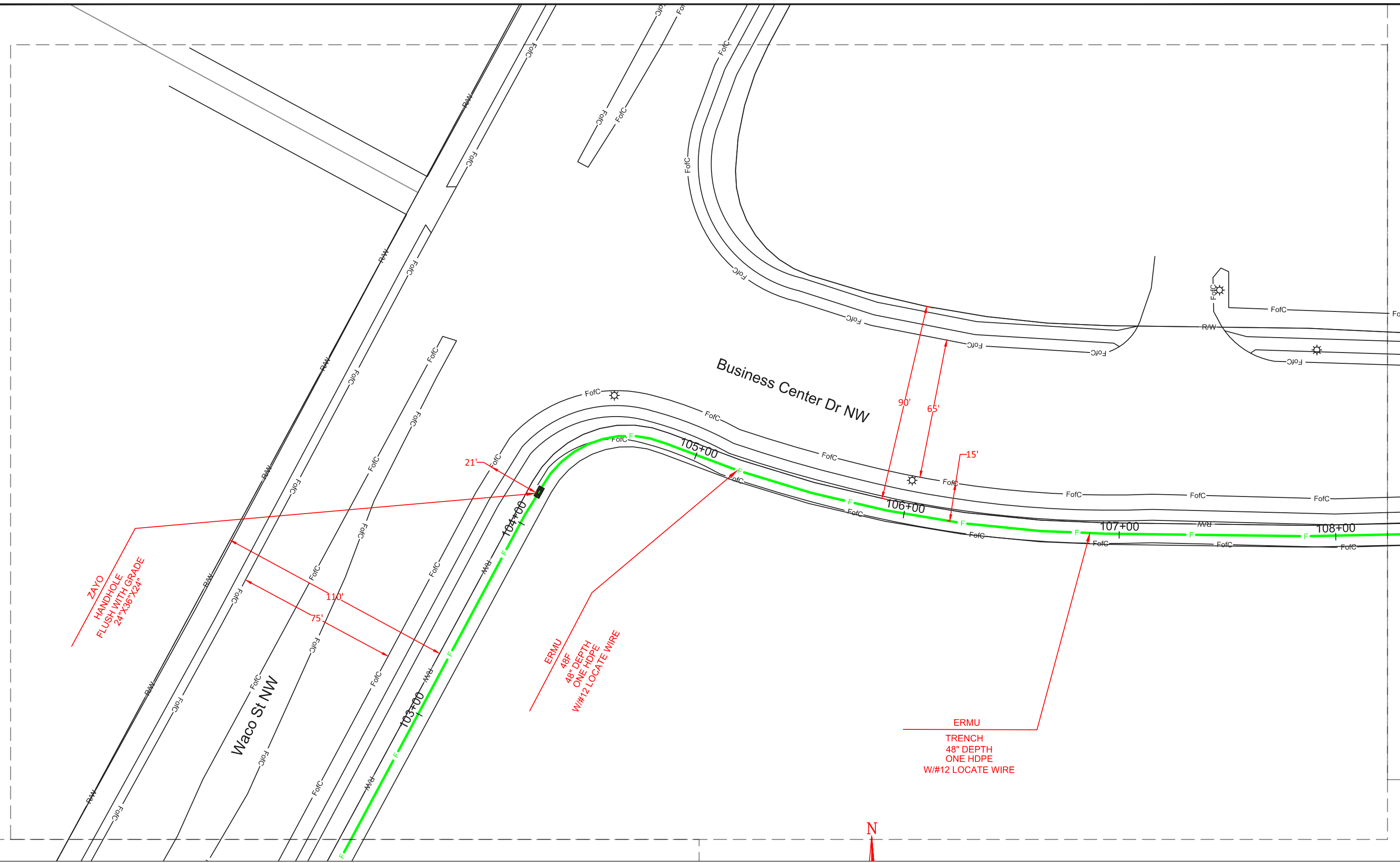


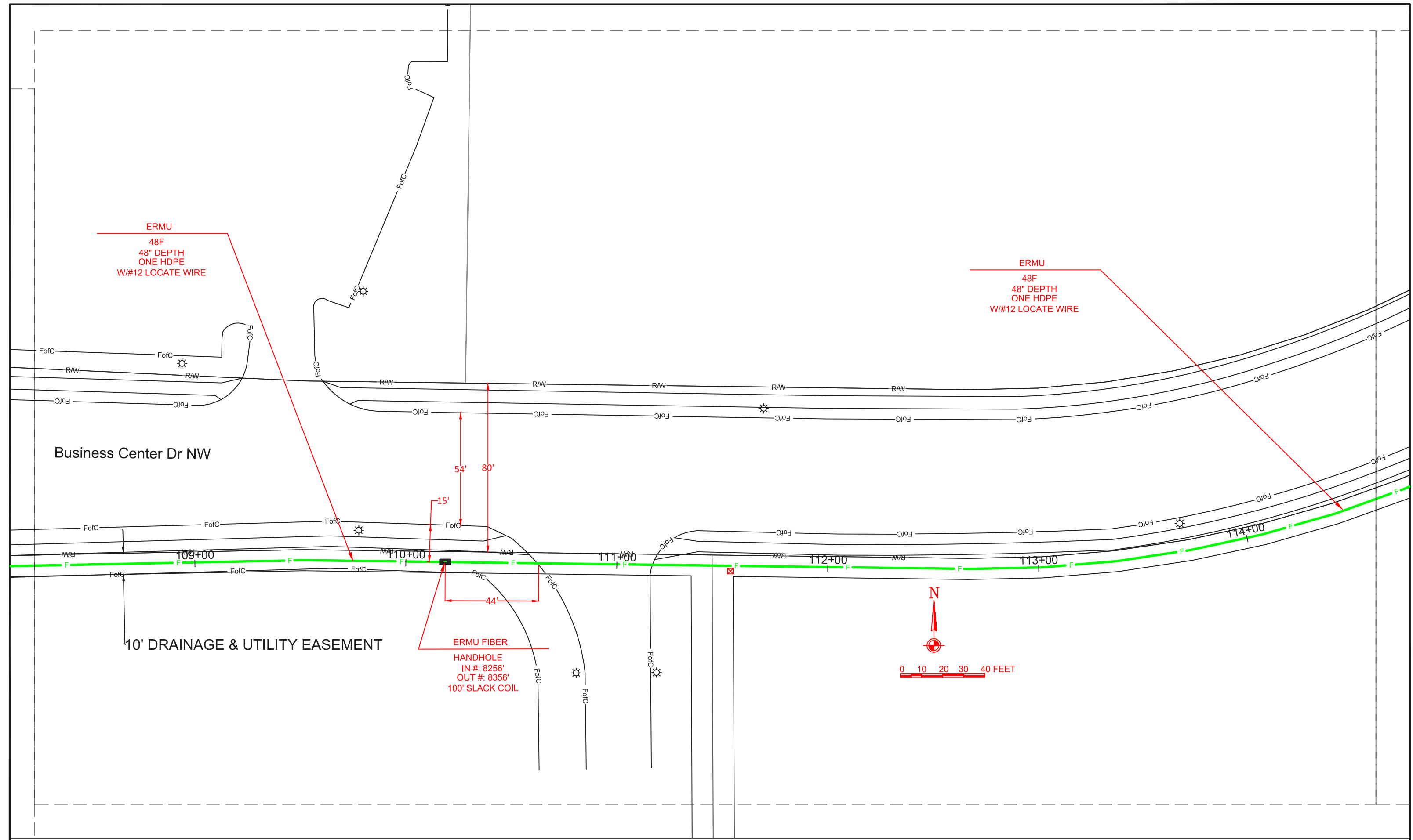


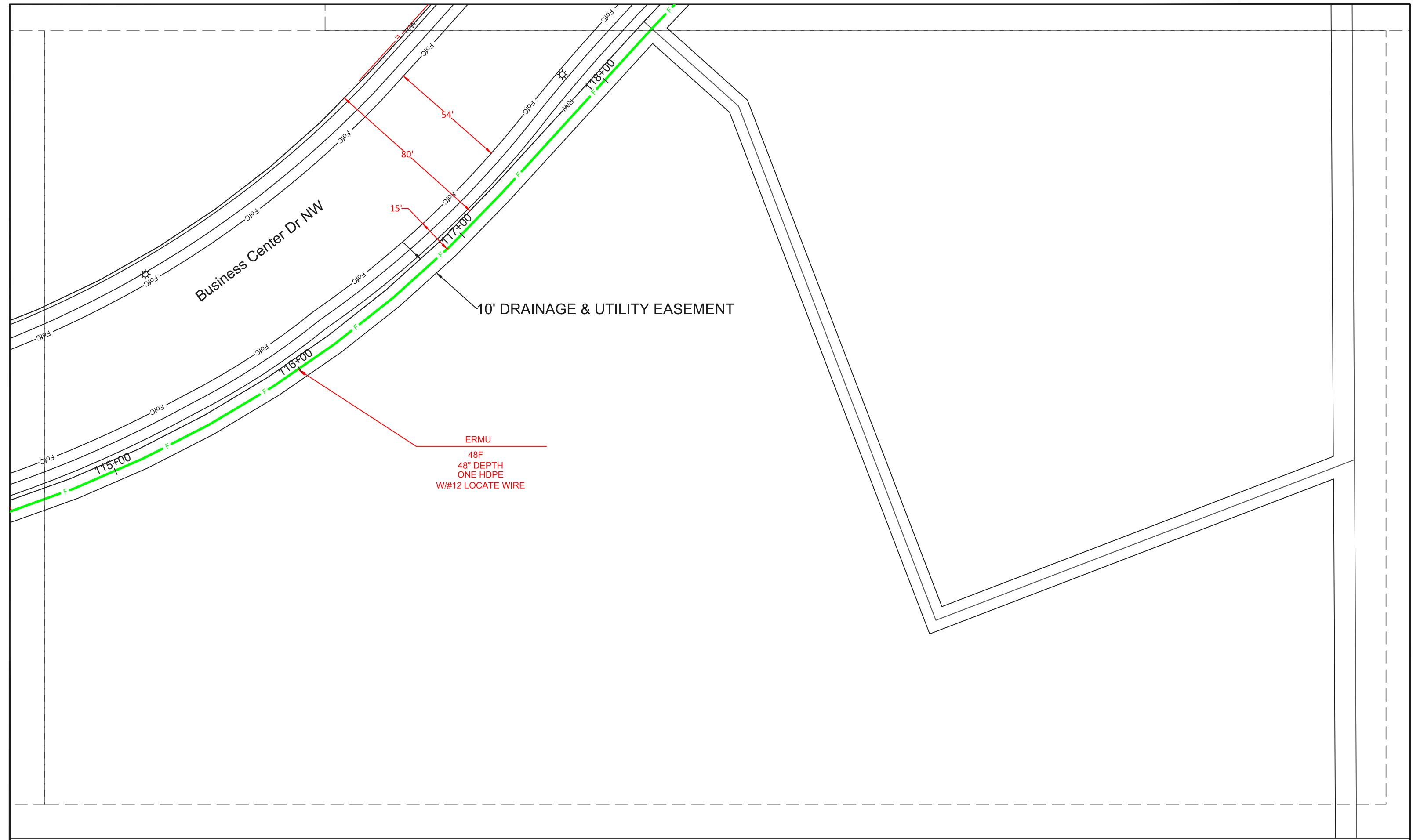
ERMU
TRENCH
48" DEPTH
ONE HDPE
W/#12 LOCATE WIRE

RISER
FIBER ID: 7965
AT RISER: # 11234'
AT DUCT: 11212'

ERMU
AERIAL CONSTRUCTION
48F
ELK RIVER MUNICIPAL POWER







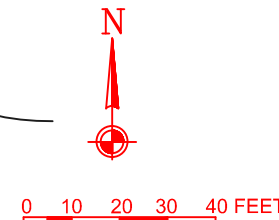
Highway 10 (EB)

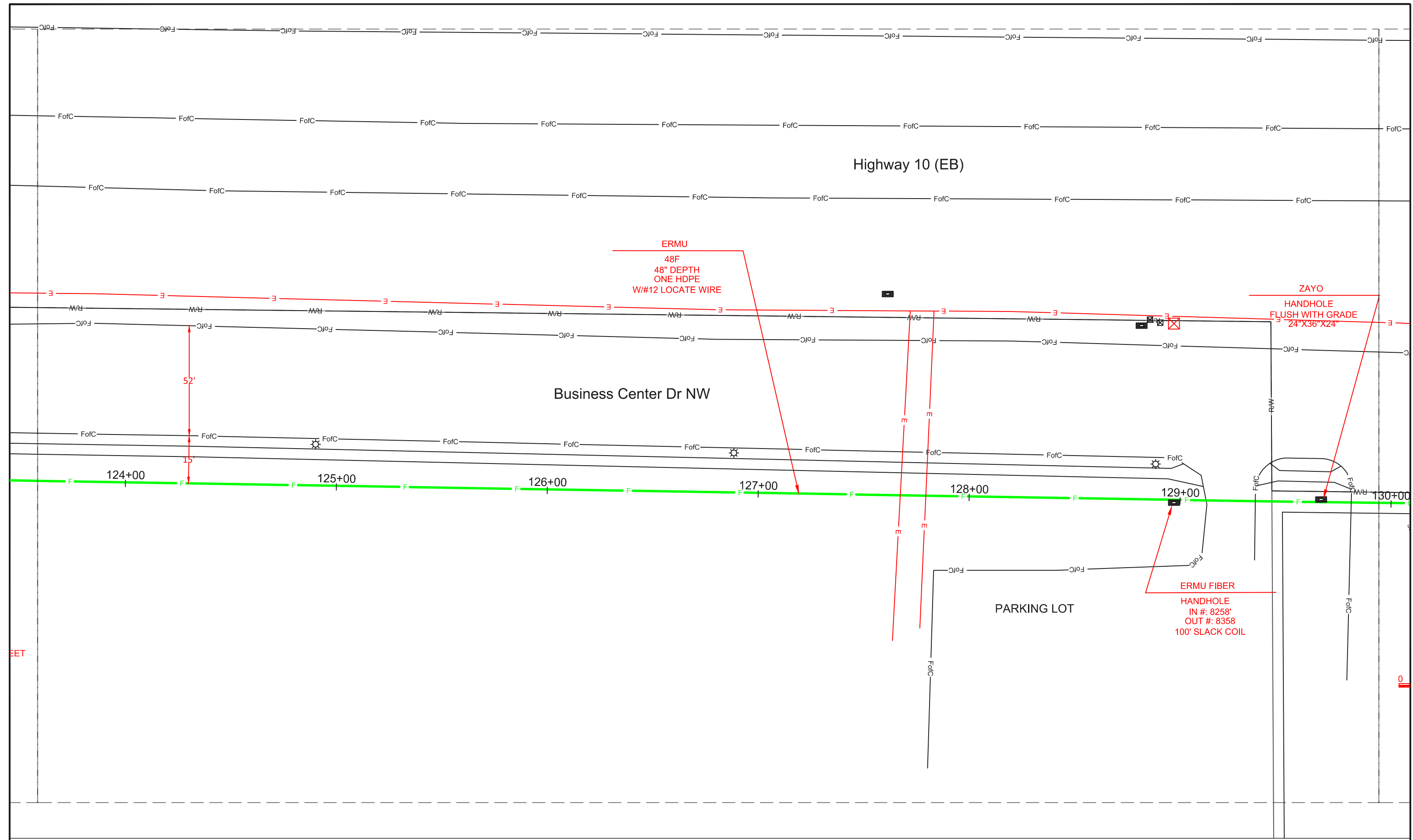
Business Center Dr NW

Sherburne County Driveway

ERMU
48F
48" DEPTH
ONE HDPE
W/#12 LOCATE WIRE

10' DRAINAGE & UTILITY EASEMENT





Highway 10 (WB)

Highway 10 (EB)

Business Center Dr NW

ERMU
48F
48" DEPTH
ONE HDPE
W/#12 LOCATE WIRE

10' DRAINAGE & UTILITY EASEMENT

52'

15'

51'

15'

130+00

131+00

132+00

133+00

134+00

135+00

136+00



0 10 20 30 40 FEET

Highway 10 (WB)

Highway 10 (EB)

Business Center Dr NW

ERMU
48F
48" DEPTH
ONE HDPE
W/#12 LOCATE WIRE

DRAINAGE & UTILITY EASEMENT

ZAYO
HANDHOLE
FLUSH WITH GRADE
24"X36"X24"

ERMU FIBER
HANDHOLE
IN #: 6840'
OUT #: 6940'
100' SLACK CO



0 10 20 30 40 FEET

Highway 10 (WB)

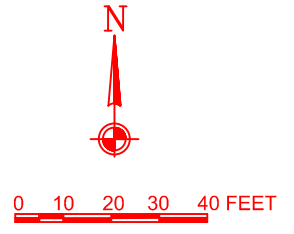
Highway 10 (EB)

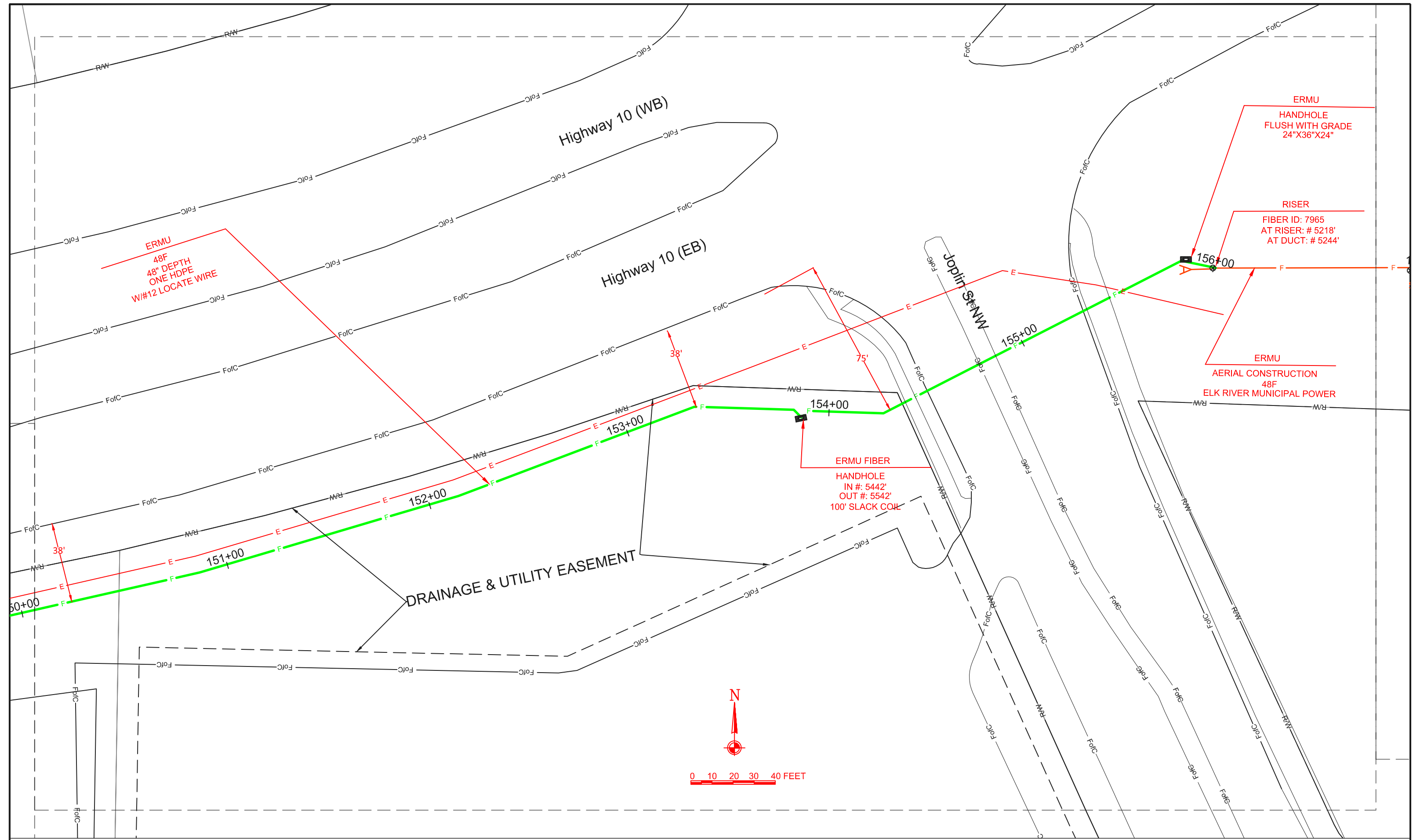
DRAINAGE & UTILITY EASEMENT

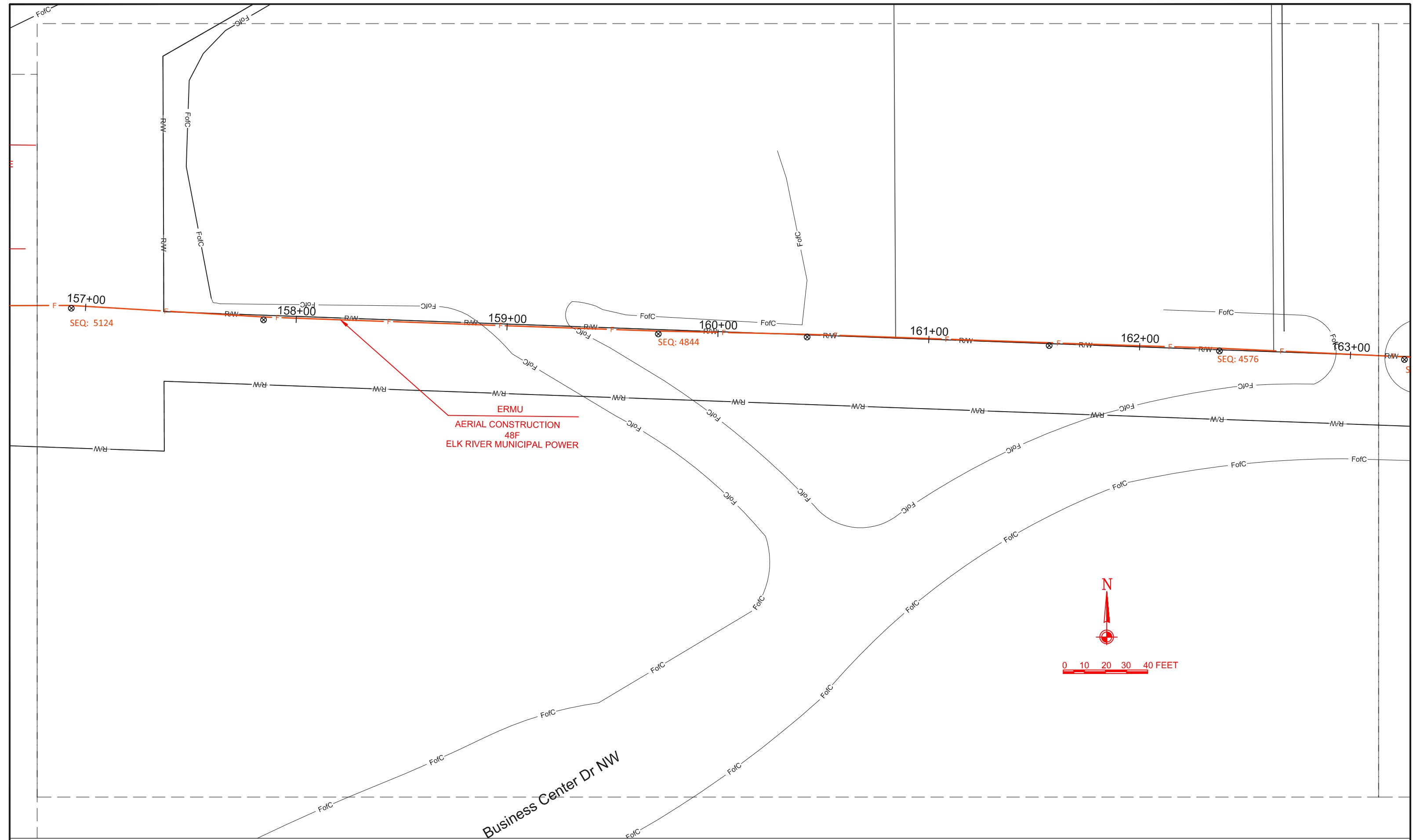
Business Center Dr NW

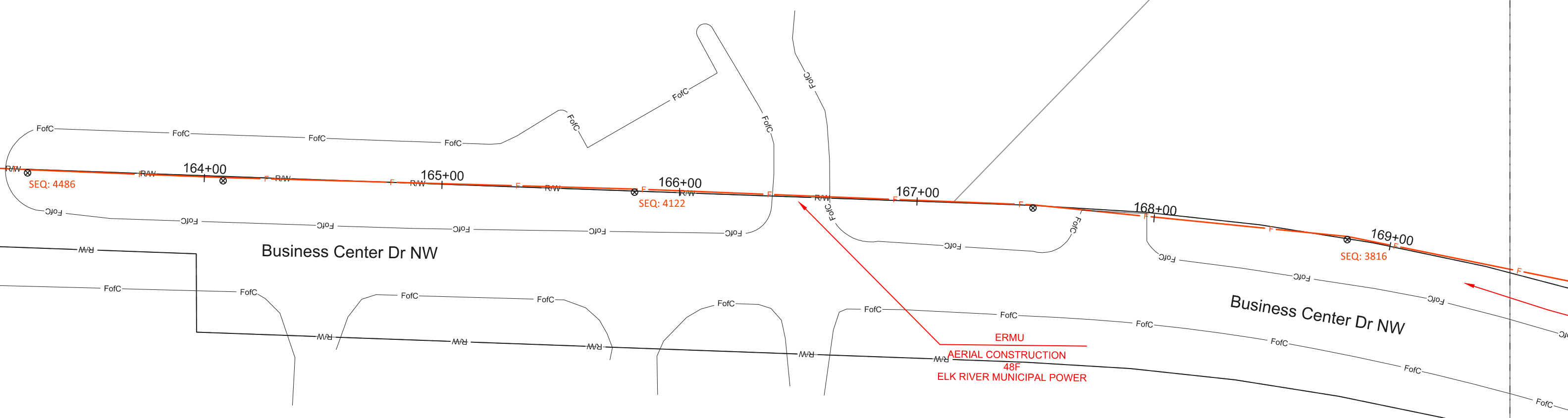
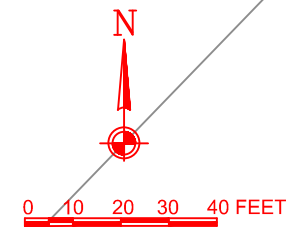
ERMU
48F
48" DEPTH
ONE HDPE
W/#12 LOCATE WIRE

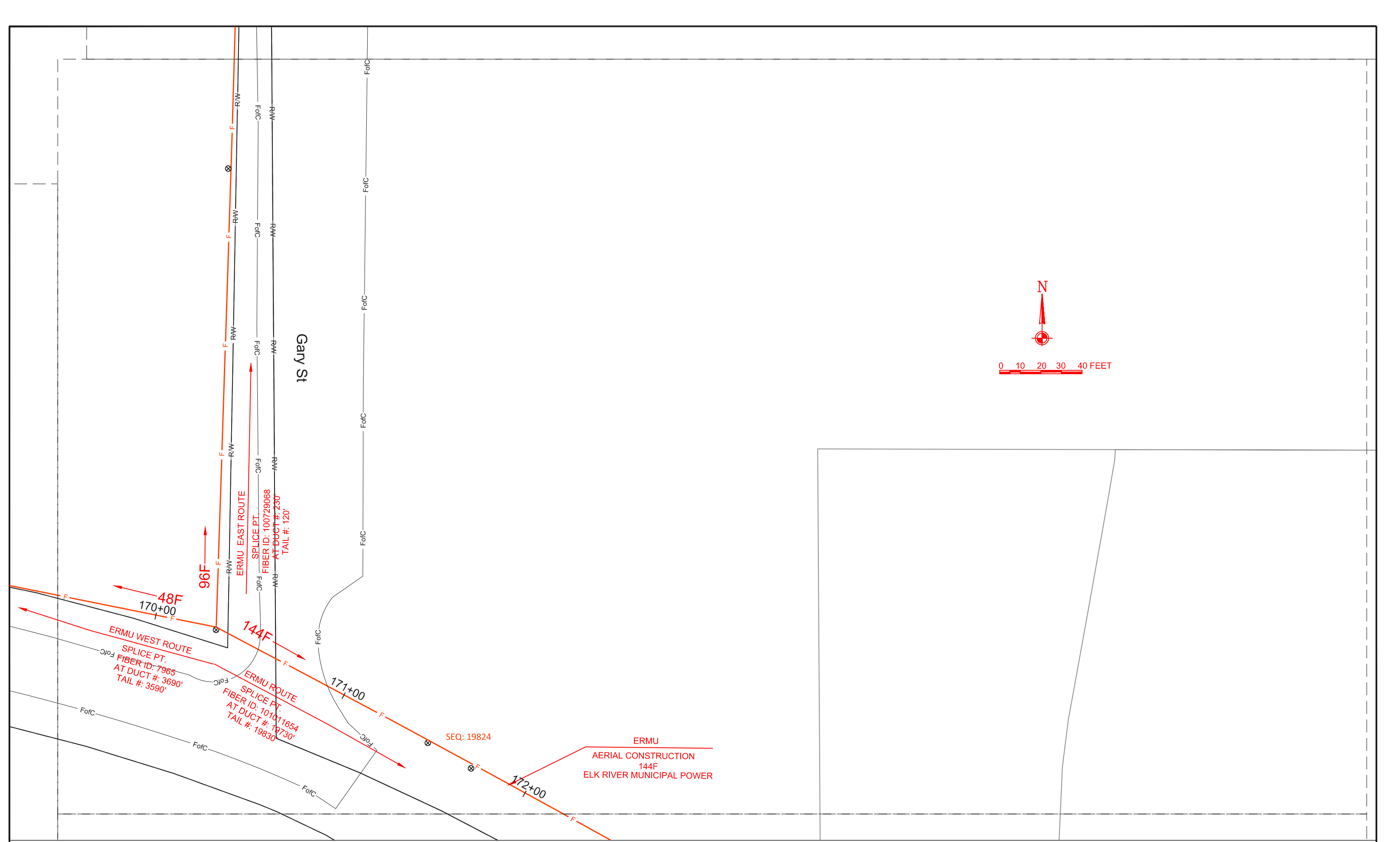
ERMU FIBER
HANDHOLE
IN #: 6840'
OUT #: 6940'
00' SLACK COIL

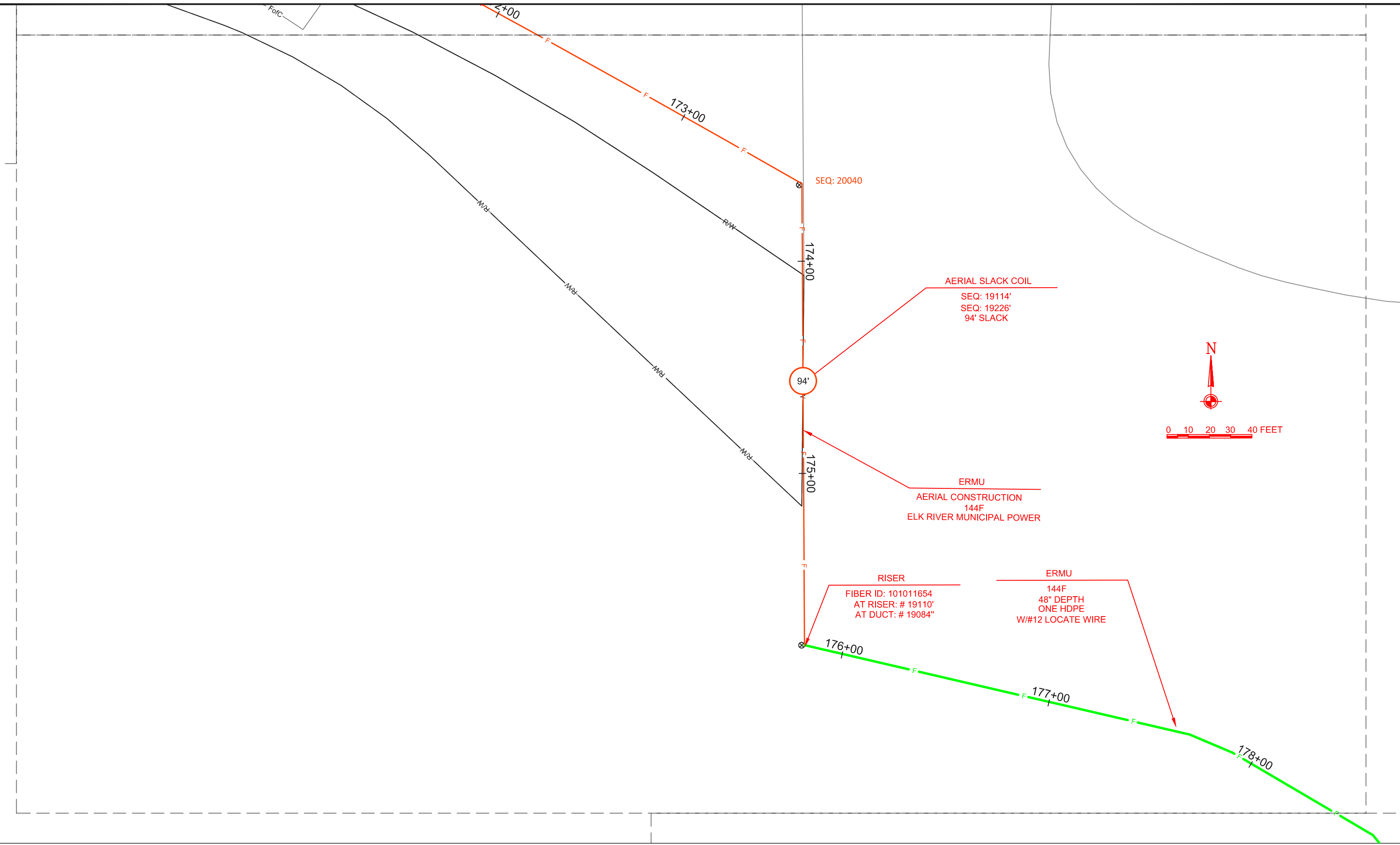












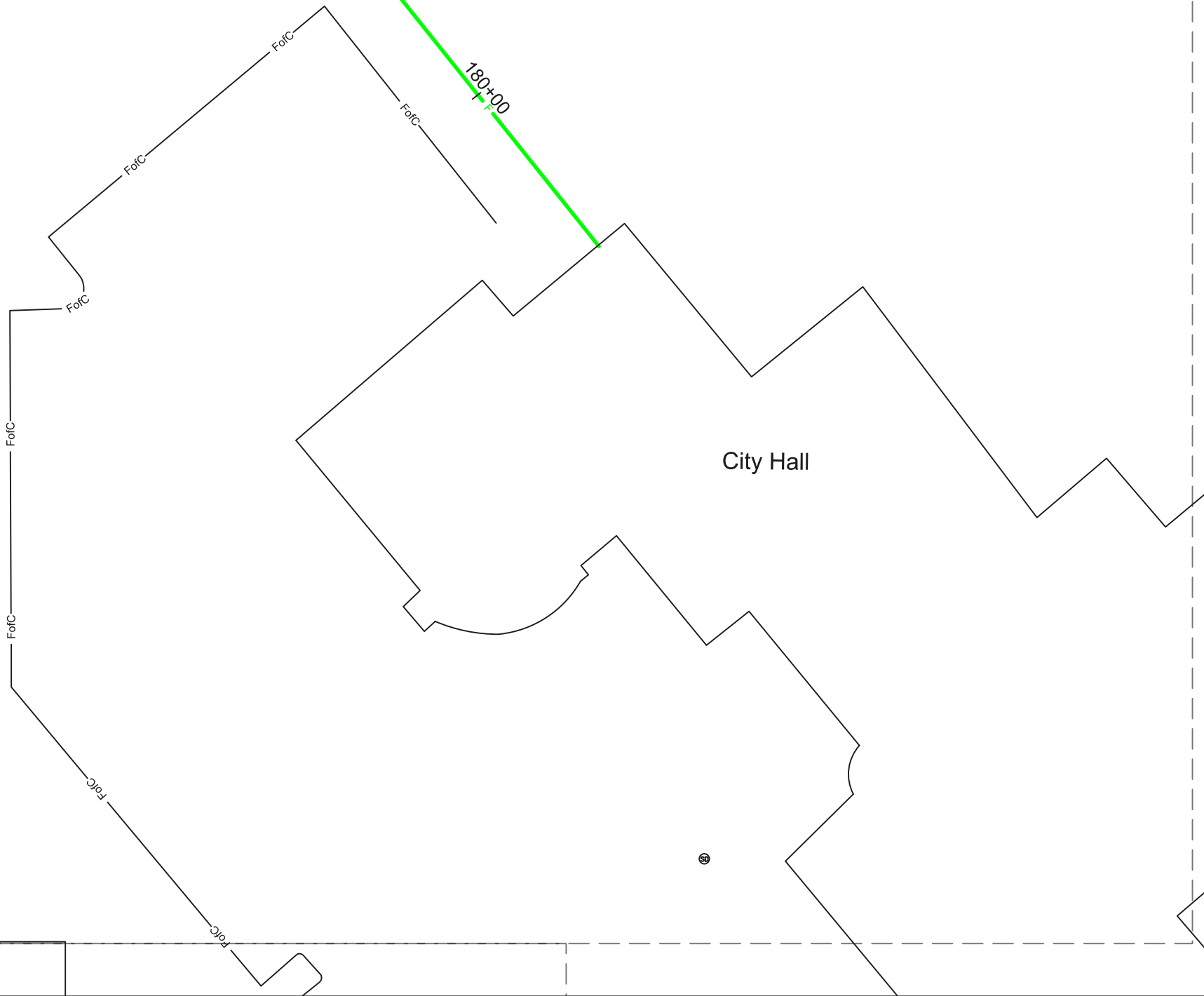
33	Elk River	ERMU		Prepared By: Mi-Tech Services Inc. Twin Cities Office Rogers, MN 55374 763-428-1496 Contact: Doug Heider	SCALE: 1" = 40'	DRAWN BY: SJH
		West Route As-builts			PRINT DATE: 12/28/12	STATUS: As-builts
				FILENAME: ElkRiver.dwg	Page 33 of 34	



ERMU
144F
48" DEPTH
ONE HDPE
W/#12 LOCATE WIRE

179+00

180+00



City Hall