

**UTILITY POTHOLE LOG**

POTHOLE #	UTILITY OWNER	UTILITY TYPE	STATION		OFFSET (RT or LT)	ACTUAL											COMMENTS
			Begin	End		NORTHING	EASTING	GROUND SURFACE / PAVEMENT	SURFACE ELEVATION	TOP ELEVATION	DEPH TO TOP (in)	BOTTOM ELEVATION	DEPTH TO BOTTOM	FOUND			
														Carrier or Casing	Size	Material	
T-01	Qwest	C	719+20	719+20	180 LT	319753.67	180151.88	DIRT	5398.72	5394.39	52	5393.89	58	(2)X4" PVC	N/A	PVC	
T-02	Qwest	C	723+50	723+50	10 RT	319279.06	179973.77	DIRT	5409.31	5405.23	49	5404.73	55	(2)X4" PVC	N/A	PVC	
T-03	Qwest	C	724+80	724+80	10 RT	319158.92	180029.19	SHOULDER/DIRT	5408.40	5405.15	39	5404.65	45	(2)X4" PVC	N/A	PVC	
T-04	Qwest	C	725+80	725+80	60 LT	319124.92	180134.52	DIRT	5404.51	5399.76	57	5399.26	63	(2)X4" PVC	N/A	PVC	
E-06	Qwest	C	742+90	742+90	25 RT	318630.01	181666.69	CURB/ ROADWAY	5466.19	5462.94	39	5462.44	45	(2)X4" PVC	N/A	PVC	
E-06	Comcast	C	742+90	742+90	25 RT	318630.01	181666.69	CURB/ ROADWAY	5466.19	5462.86	40	5462.36	46	(2)X4" PVC	N/A	PVC	
T-06a	Xcel Energy	E	769+00	769+00	15 LT	318306.52	184248.56	SHOULDER/DIRT	5550.02	5543.69	76	5543.02	84	(2)X6" PVC	N/A	PVC	
T-06b	Qwest	C	769+00	769+00	15 LT	318306.32	184249.55	SHOULDER/DIRT	5549.97	5543.97	72	5543.47	78	(2)X4" PVC	N/A	PVC	
T-06c	Comcast	C	769+00	769+00	15 LT	318306.22	184250.81	SHOULDER/DIRT	5550.13	5543.96	74	5543.46	80	(2)X4" PVC	N/A	PVC	
T-07	Qwest	C	252+00	252+00	301 LT	318666.62	179891.68	DIRT	5397.84	5393.42	53	5393.01	58	3" PLASTIC	N/A	Plastic	
T-08	Qwest	C	254+00	254+00	277 LT	318484.12	179749.13	DIRT	5403.02	5399.44	43	5398.60	53	2x4" PVC	N/A	PVC	
T-09	Qwest	C	255+00	255+00	171 LT	318389.72	179569.14	DIRT	5407.25	5403.25	48	5402.33	59	2x4" PVC	N/A	PVC	
T-10*	Qwest	C	252+50	252+50	331 LT	318690.52	179904.10	DIRT	5397.84	5397.84	112	5388.17	116	2x4" PVC	N/A	PVC	
E-01	Xcel Energy	E	707+25	707+25	8 LT	320808.34	180404.57	DIRT	5399.64	5396.56	37	5396.39	39	1 1/2" PVC	N/A	PVC	
E-02	CDOT	C	716+25	716+25	80 RT	319959.03	180093.43	DIRT	5397.57	5388.82	105	5388.24	112	6" PLASTIC	N/A	PLASTIC	THIS IS AN ELECTRIC LINE NOT A FIBER LINE AS INDICATED ON LOG.
E-03	Xcel Energy	E	718+50	718+50	80 LT	319844.02	180047.81	ASPHALT OR DIRT	5397.74	5395.07	32	5394.74	36	3" PVC	N/A	PVC	
E-05	Xcel Energy	E	719+20	719+20	200 LT	319751.36	180160.92	DIRT	5398.36	5396.11	27	5395.94	29	1 1/2" PVC	N/A	PVC	
E-06	Xcel Energy	E	742+90	742+90	25 LT	318630.01	181666.69	CURB/ ROADWAY	5466.19	5462.44	45	5462.02	50	(4)X4" PVC	N/A	PVC	
E-06	Xcel Energy	E	742+90	742+90	25 LT	318630.01	181666.69	CURB/ ROADWAY	5466.19	5462.44	45	5462.02	50	(4)X4" PVC	N/A	PVC	
E-07	Xcel Energy	E	NA	NA	NA	317672.78	185646.41	DIRT	5541.92	5537.67	51	5537.59	52	1" OD	N/A	Direct Cable	
F-01	Lockheed Martin	C	724+90	724+90	25 RT	319143.24	180021.58	SHOULDER/ ASPHALT	5410.93	5405.93	60	5405.85	61	1" OD	N/A	Direct Cable	
F-02	Lockheed Martin	C	725+80	725+80	50 LT	319121.61	180133.64	DIRT	5404.43	5399.10	64	5399.01	65	1" OD	N/A	Direct Cable	
G-01	Xcel Energy	G	719+00	719+00	80 LT	319805.56	180045.11	DIRT	5396.62	5393.54	37	5393.20	41	4" OD	N/A	PVC	
G-02	Xcel Energy	G	719+00	719+00	70 LT	319810.25	180027.30	DIRT	5395.27	5391.19	49	5390.85	53	4" OD	N/A	STEEL	
G-03	Xcel Energy	G	718+90	718+90	80 LT	319829.17	180035.21	DIRT	5395.55	5391.38	50	5391.05	54	4" OD	N/A	STEEL	
G-04	Xcel Energy	G	720+30	720+30	10 RT	319610.14	179920.58	DIRT	5393.07	5388.74	52	5388.40	56	4" OD	N/A	STEEL	
ST-01	CDOT	S	742+00	742+00	10 RT	318670.14	181587.83	DIRT	5468.94	5461.02	95	5456.02	155	60" OD	N/A	CONCRETE	THIS IS A STORM DRAIN LINE NOT AN ELECTRIC LINE AS INDICATED IN LOG
W-01	SW Metro	W	719+00	719+00	90 LT	319800.97	180056.59	SHOULDER	5399.07	5393.40	68	5392.07	84	16" OD	N/A	STEEL	
W-02	SW Metro	W	720+30	720+30	0	319605.89	179928.71	DIRT	5393.35	5388.85	54	5387.52	70	16" OD	N/A	STEEL	

\* Pothole was not surveyed, location is estimated

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File Name: 14679_pUT-P001.dgn	Date:	Comments	Init.		No Revisions:	<b>C470/SANTA FE FLYOVER PROJECT</b>		
Horiz. Scale: NA Vert. Scale: NA					Revised:	Designer: MPA	Structure Numbers	17679
					Void:	Detailer: SS	Sheet Subset: UTL PLN	Subset Sheets: 1 of 17
				<b>RLB</b>	Sheet Number		<b>35</b>	

**CONFLICT TABLE**

Approx. Begin Station	Approx. End Station	Utility Owner	Existing Facility	Conflict	Pothole No.	Conflict Resolution	Approx. Begin Station	Approx. End Station	Utility Owner	Existing Facility	Conflict	Pothole No.	Conflict Resolution
241+00	247+00	Comcast	Underground cable fiber along the west side of Santa Fe	Roadway	N/A	Protect in place	702+08	716+50	Comcast	Fiber on west side of Santa Fe Dr from Mineral to Blakeland	Drainage, Wall, Roadway	E-03	Relocate approx. 1450 ft of fiber along west side of Santa Fe. Install 2 new MH's on either side of proposed wall. Relocate vault and riser to northwest corner of Wolhurst entrance area
241+00	247+00	CDOT	ITS fiber along the west side of Santa Fe	Roadway	N/A	Protect in place	702+08	718+20	Xcel Energy	Underground primary electric line along west side of Santa Fe north of C-470. Pad mounted transformer and capacitor bank associated with this line.	Drainage, Wall, Roadway	N/A	Extend line and relocate approx. 1810 ft of primary electric to the west. One new MH's to be installed on west side of proposed wall. Transformer, switch cabinet and capacitor bank to be relocated to the south side of County
241+00	247+00	Xcel Energy	Street feed along west side of Santa Fe	Roadway	N/A	Protect in place	702+08	716+00	Xcel Energy	Street feed along west side of Santa Fe from County Line Rd and heads north. Switch cabinet associated with this line.	Drainage, Wall, Roadway	E-02	Relocate approx. 1810 ft of electric to the west.
249+00	255+00	CDOT	18" RCP crosses west side of C-470 and travels south at intersection of Santa Fe Dr and C-470	Drainage	N/A	See drainage plans for details	702+08	702+08	City of Littleton	24" CMP storm line crosses Santa Fe Dr	Drainage	N/A	See drainage plans for details
251+00	255+00	Comcast	Fiber along east side of Santa Fe, crosses C-470 to feed fire station along Blakeland.	Drainage	N/A	Relocate approx. 490 ft of fiber to the west at the southeast corner of C-470/Santa Fe Dr intersection	707+00	707+00	Xcel Energy	Switch cabinet and transformer along the west side of Santa Fe	Roadway	N/A	Move existing switch cabinet and transformer approximately 350' north
251+00	255+00	Qwest	Telephone line along east side of Santa Fe Dr, crosses C-470.	Drainage	T-07, T-08, T-09	Relocation required. Area of relocation TBD.	707+25	707+25	Xcel Energy	Underground electric street feed and vault crossing Santa Fe Rd north of County Line Rd	Drainage/Wall	E-01	Move existing vault and street feed approx. 350' to the north
254+80	255+00	Qwest	Abandoned overhead telephone and pole along east side of Santa Fe, south of C-470.	Drainage	N/A	Remove abandoned line from pole	716+25	716+25	Xcel Energy	Electric crosses Santa Fe Rd north of County Line Rd	Drainage	E-02	Relocate approx 260 ft of underground electric to the south and connect to existing OH electric
702+08	720+00	Xcel Energy	Underground electric line along east side of Santa Fe Dr north of C-470.	Drainage	E-05	Protect in place during construction	716+50	720+00	Xcel Energy	4" intermediate pressure gas line along west side of Santa Fe Dr at County Line Rd	Drainage	G-01	Relocate and extend approx. 300 ft of gas line to the west
702+08	720+00	CDOT	1-1/2 to 2-inch PVC Conduit/fiber runs parallel to S Santa Fe Dr on the west side from Mineral to south of C-470. (In shared trench with separate Xcel street lighting conduit)	Drainage	E-03	Relocate approx. 1700 ft of fiber. 2 new pull boxes to be installed on either side of proposed wall.	717+50	718+50	Xcel Energy	4" FB high pressure gas line along west side of Santa Fe Dr from north of Mineral to C-470	Drainage/Pier	G-02, G-03, G-04	Relocate approx. 45 ft of gas line to the west
702+08	720+00	Xcel Energy	Electric lighting feed along west side of Santa Fe from Mineral to C-470 in joint trench with CDOT Interconnect fiber	Drainage	E-03	Reconfigure street lighting	718+20	724+00	Xcel Energy	Overhead electric along west side of C-470 from C-470 to County Line Rd	Roadway	N/A	Bury approx. 420 ft of overhead electric and remove existing poles
702+08	720+00	SW Metro	16" DI water line along west side of Santa Fe Dr, north of C-470	Drainage/Pier	W-01, W-02	Relocate approx 65 ft of water line to keep line 10 ft away from pier	718+20	724+00	Comcast	Overhead cable coax along west side of C-470 from C-470 to County Line Rd	Roadway	N/A	Bury approx. 420 ft of overhead coax
702+08	716+50	City of Littleton	18 to 24" RCP storm line runs along the west side of Santa Fe Dr from north of W. County Line Rd towards Mineral	Drainage, Wall, Roadway	N/A	Line to be removed and new storm trunk line to be installed. See drainage plans for details	725+00	725+50	Qwest	Telephone line along east side of Santa Fe Dr north of C-470. Line also curves around detention pond north of C-470	Drainage/Pier	T-01, T-02, T-03, T-04	Relocate approx. 25 ft of fiber 5 feet to the north around pier. Protect in place for drainage conflict.

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**PROPOSED UTILITY PLAN**  
**C470/SANTA FE FLYOVER PROJECT**

Designer: MPA	MPA	Structure
Detailer: SS	DMB	Numbers
Sheet Subset: UTL PLN		Subset Sheets: 2 of 17

**Project No./Code**

ES6 0852-103

17679

Sheet Number    **36**

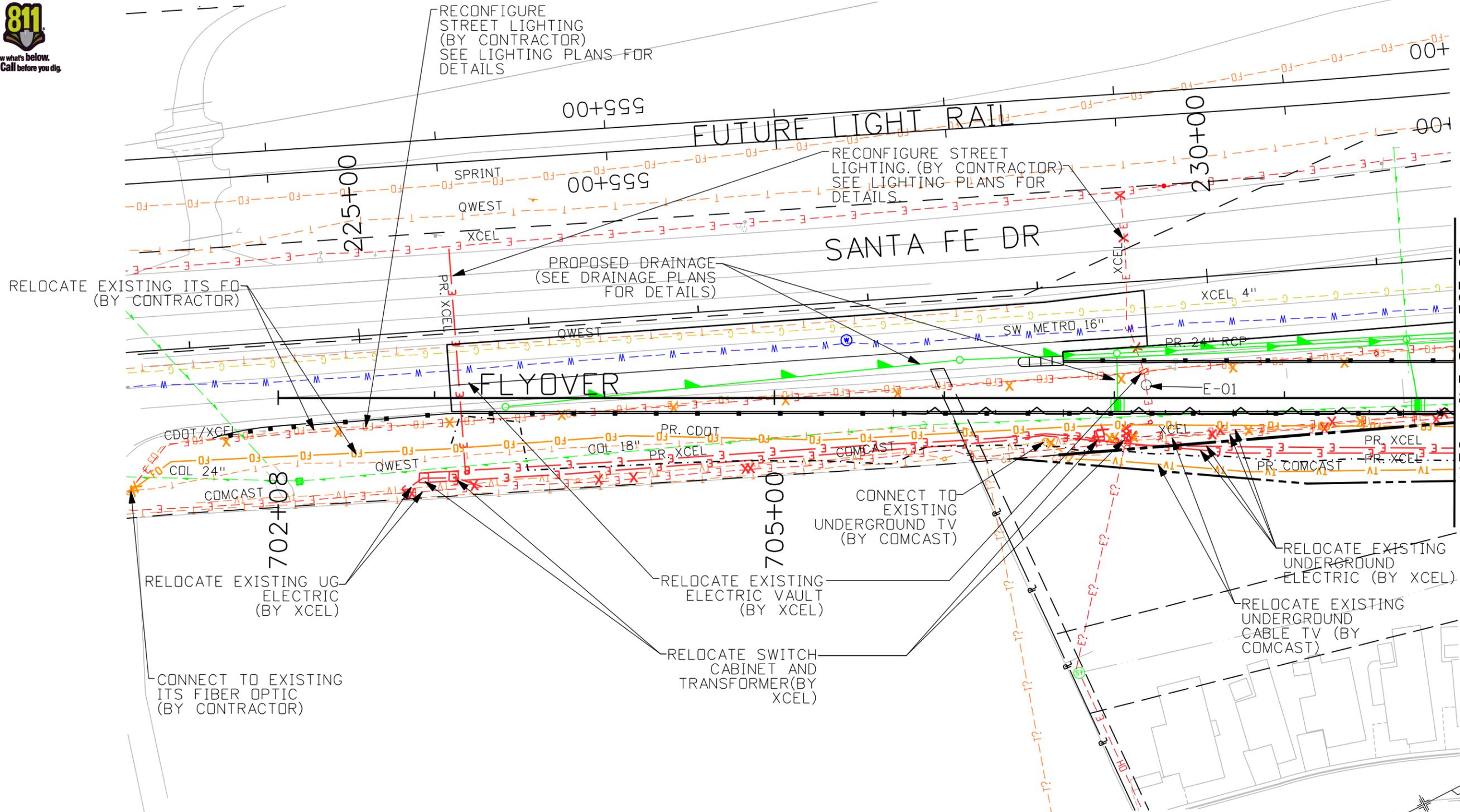




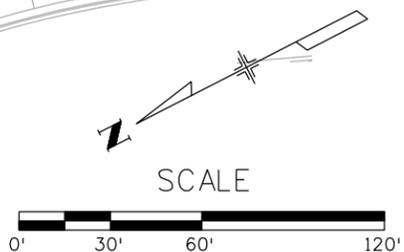
UTILITY TABULATION SHEET

SANTA FE/C-470 STATION AND OFFSET	BURIED EA	NEW PULL BOX EA	APPROX. DISTANCE* LN FT	ITEM DESCRIPTION
<b>COMMUNICATIONS- CDOT ITS</b>				
224+80, 82' RT TO 239+00. 68' RT	1	2	1600	FROM EXISTING PULLBOXES
* Distances shown are approximate based on proposed relocations				

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**GENERAL NOTES**  
 1. SIGNIFICANT SETTLEMENT IN THE AREA OF CONSTRUCTION. SEE GEOTECHNICAL REPORT FOR MORE DETAILS.  
 2. SEE TRAFFIC SHEETS FOR CDOT FIBER RELOCATION SPLICING DETAIL



THE INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

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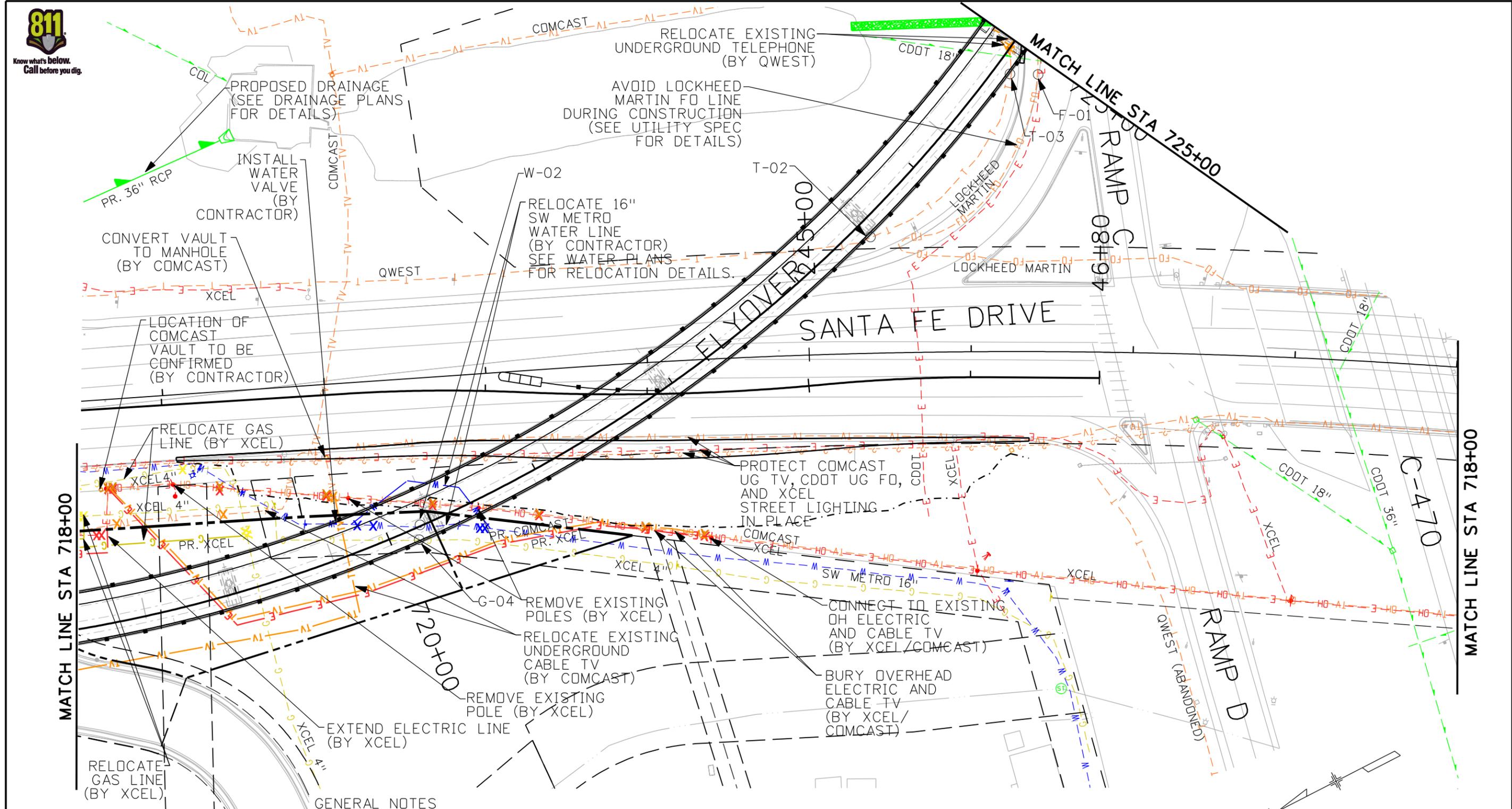
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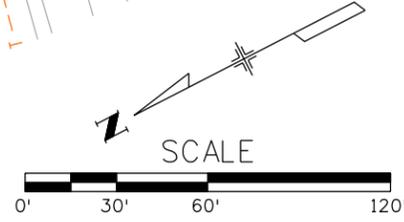
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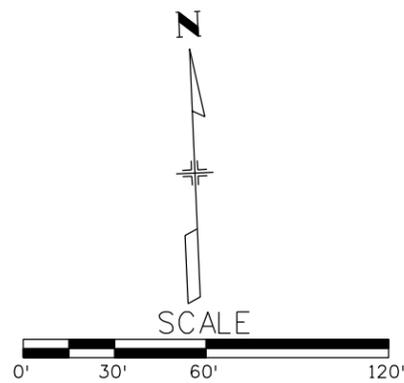
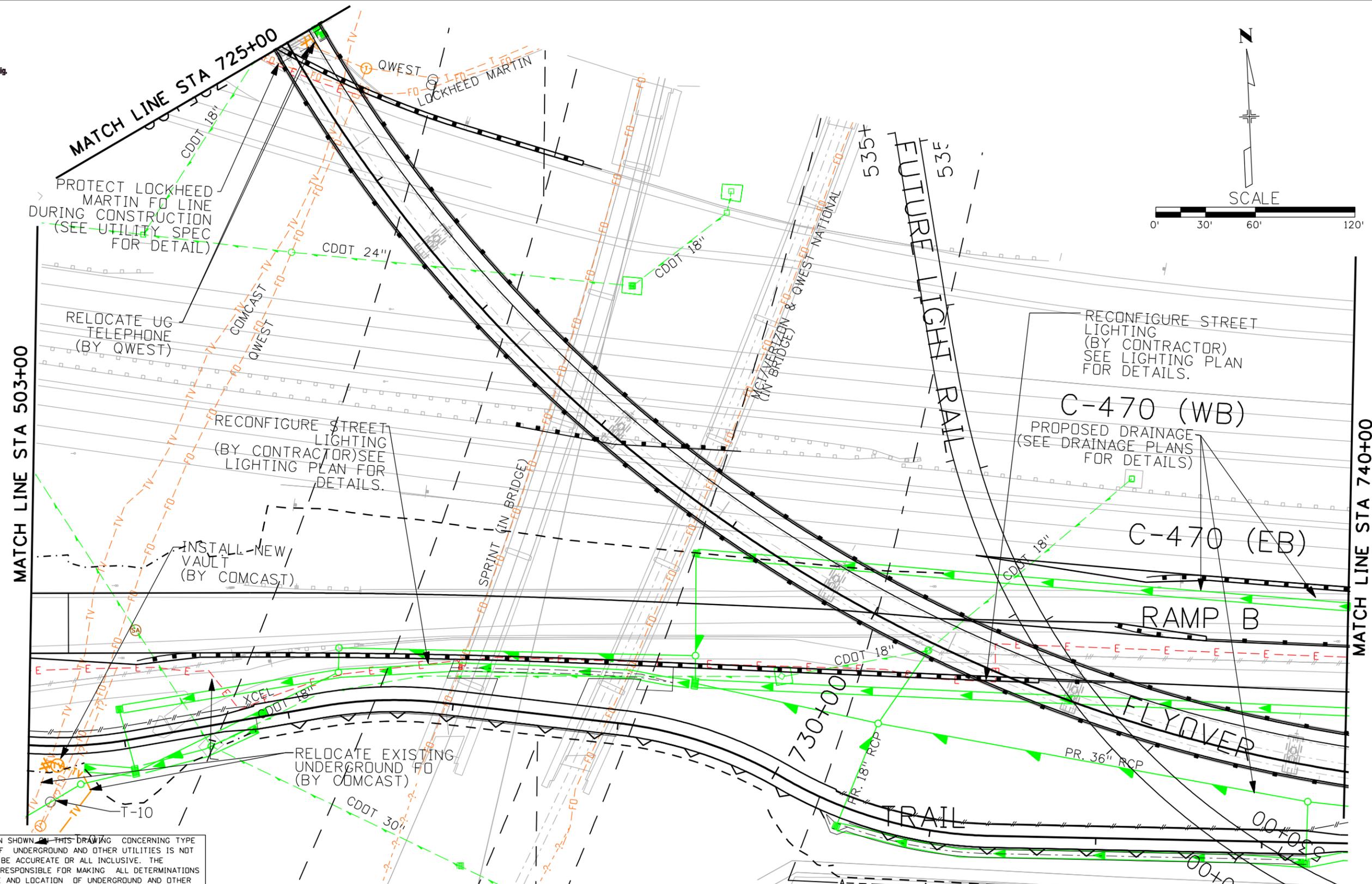
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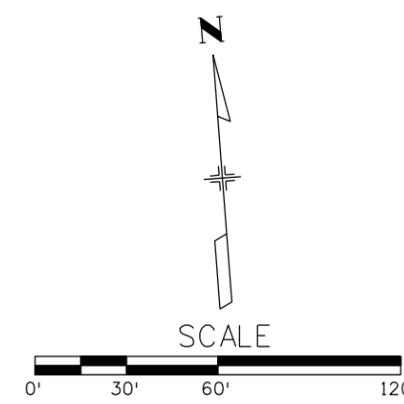
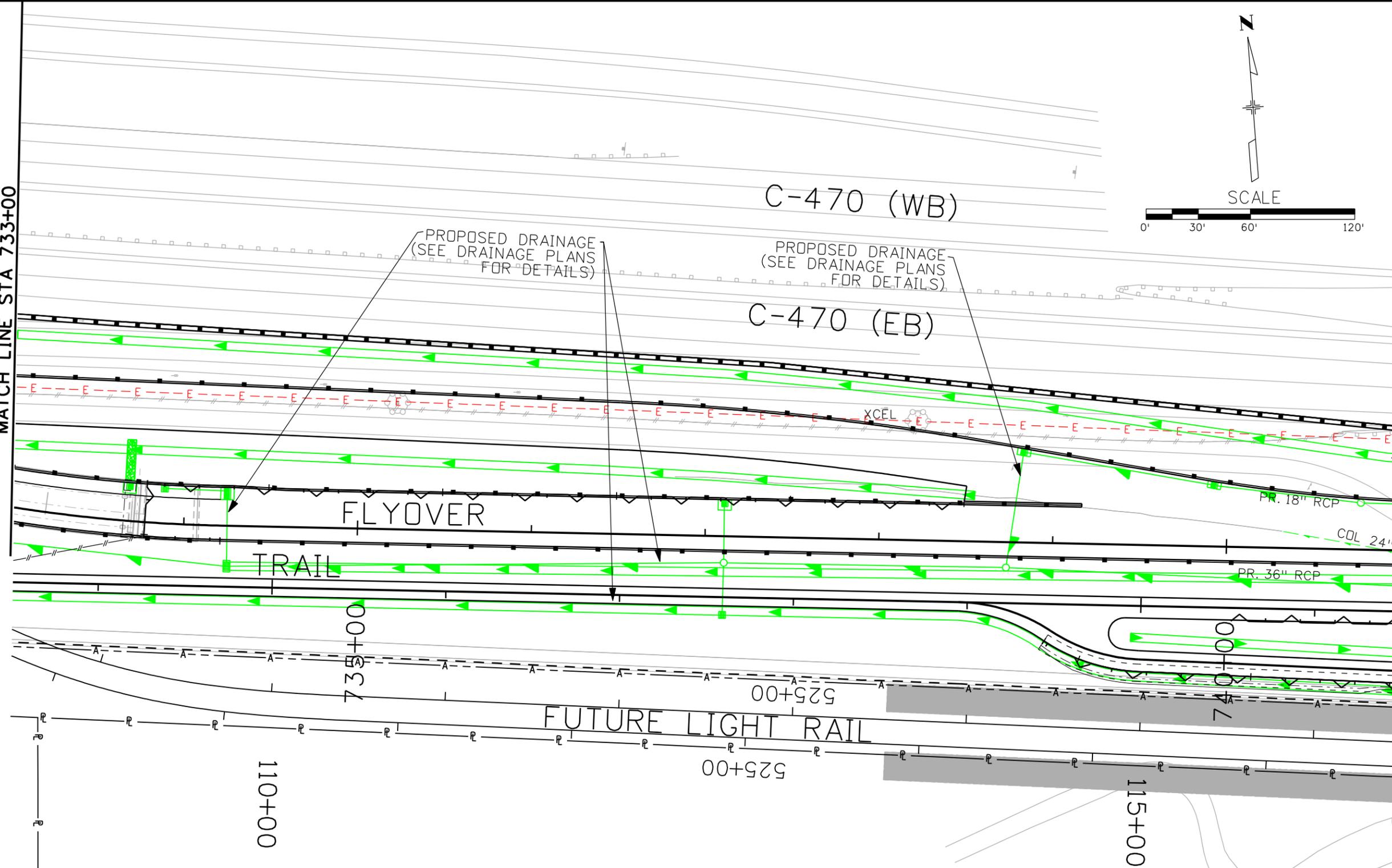
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MATCH LINE STA 733+00

MATCH LINE STA 741+00



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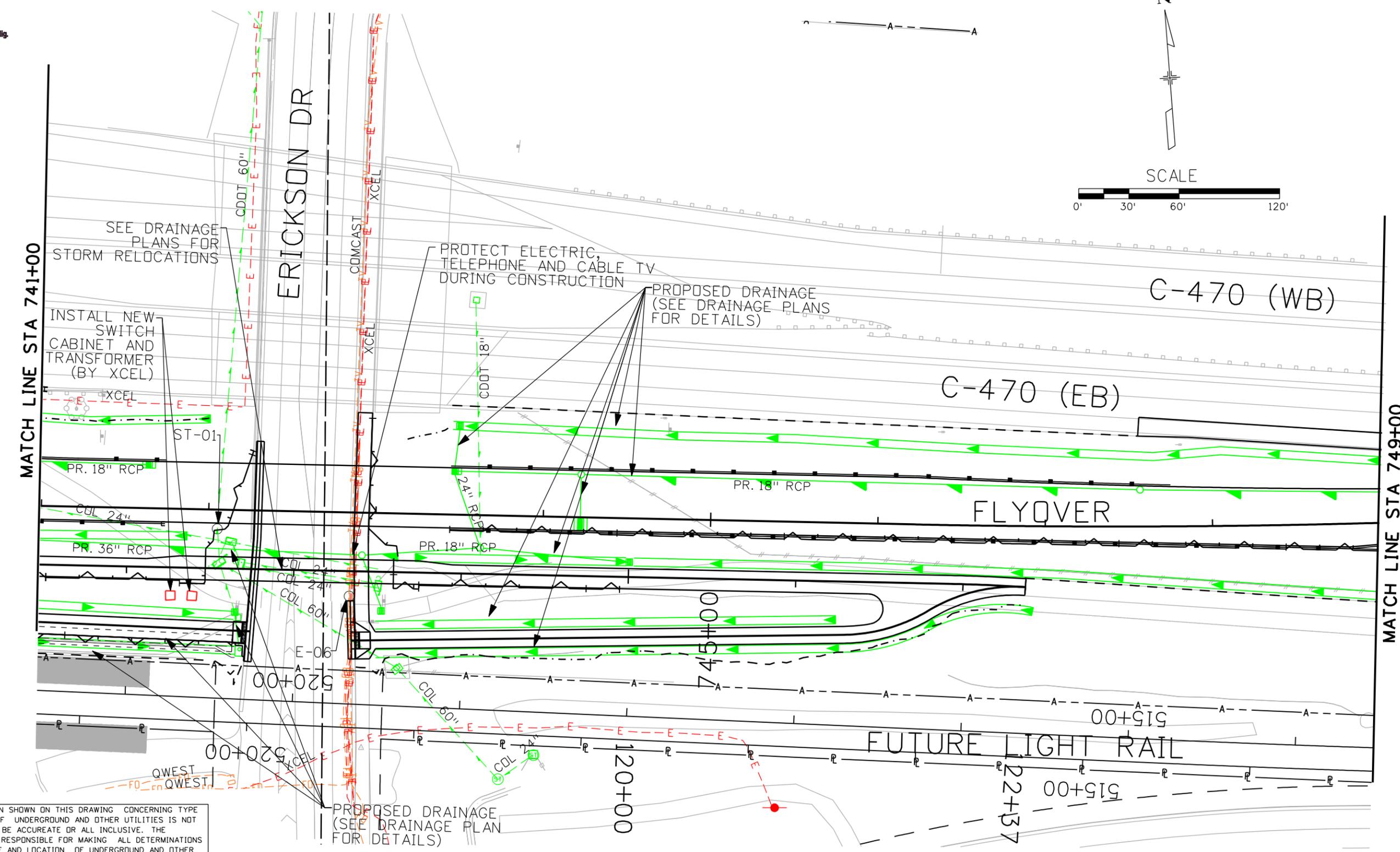
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SCALE



SEE DRAINAGE PLANS FOR STORM RELOCATIONS

INSTALL NEW SWITCH CABINET AND TRANSFORMER (BY XCEL)

PROTECT ELECTRIC, TELEPHONE AND CABLE TV DURING CONSTRUCTION

PROPOSED DRAINAGE (SEE DRAINAGE PLANS FOR DETAILS)

C-470 (WB)

C-470 (EB)

FLYOVER

FUTURE LIGHT RAIL

MATCH LINE STA 741+00

MATCH LINE STA 749+00

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PROPOSED DRAINAGE (SEE DRAINAGE PLAN FOR DETAILS)

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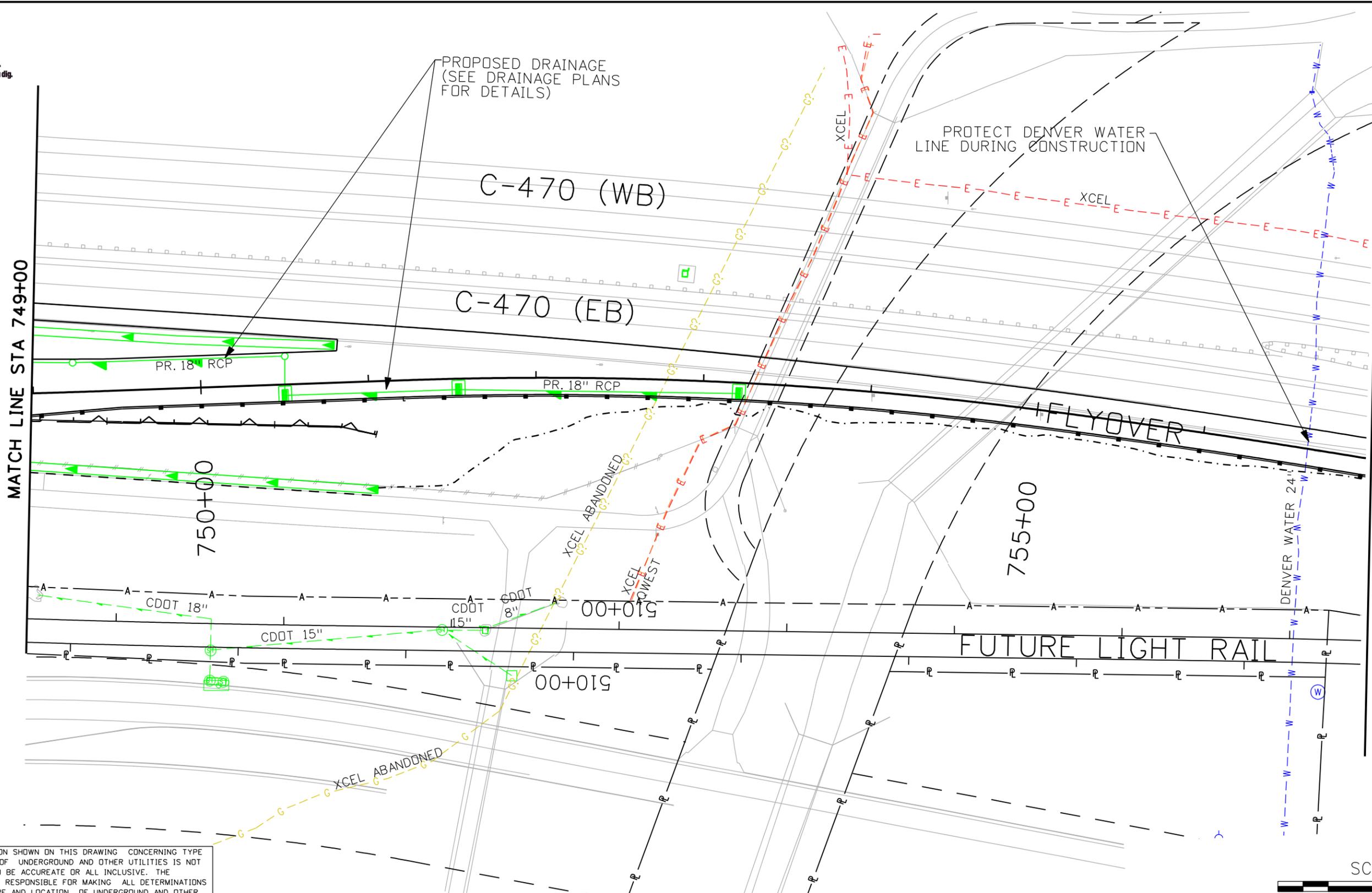
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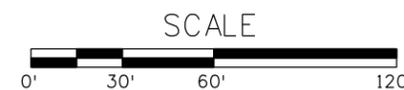
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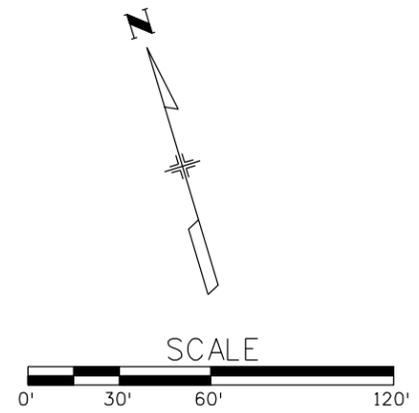
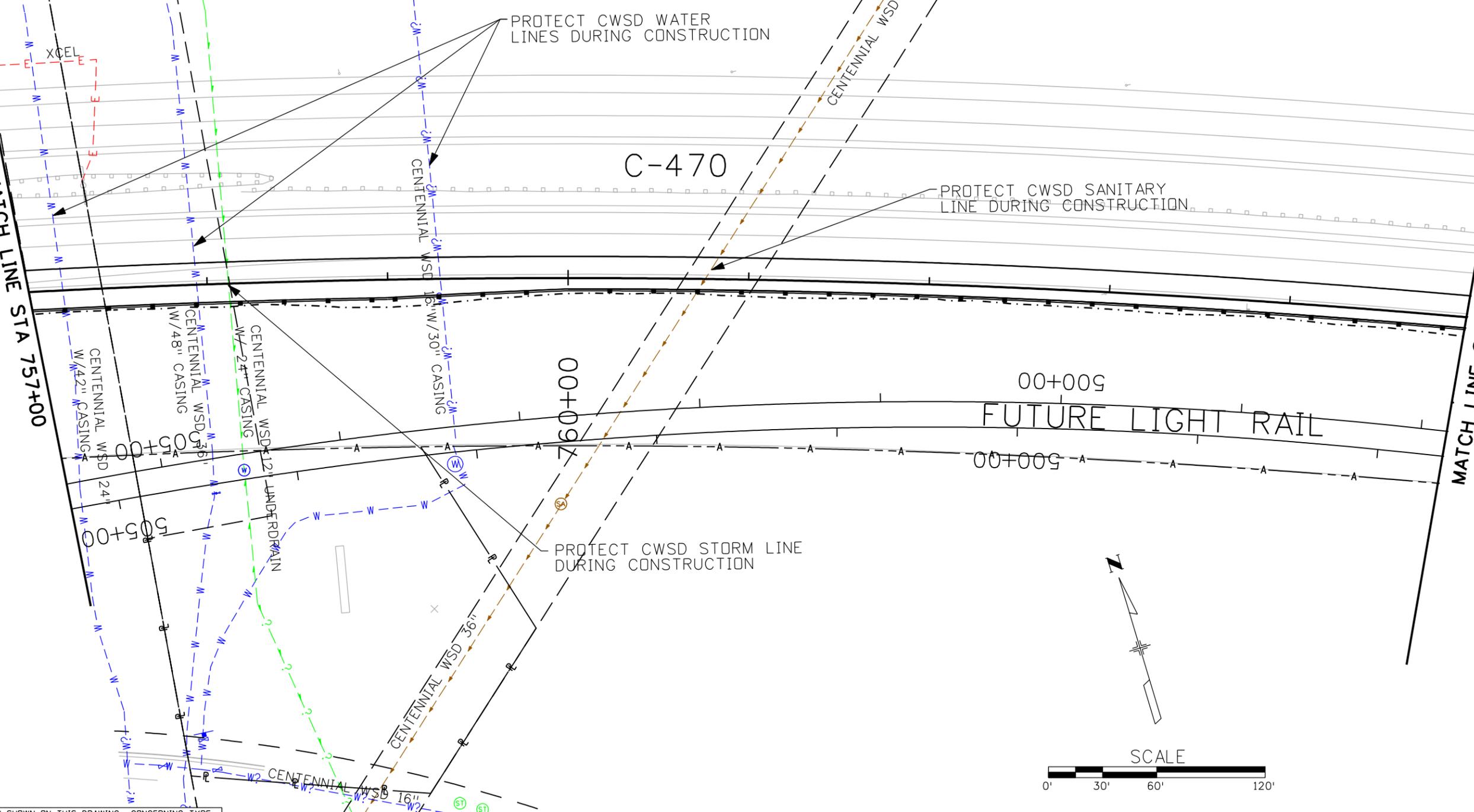
C-470

FUTURE LIGHT RAIL

PROTECT CWSD WATER LINES DURING CONSTRUCTION

PROTECT CWSD SANITARY LINE DURING CONSTRUCTION

PROTECT CWSD STORM LINE DURING CONSTRUCTION



THE INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

Print Date: 12/31/2009  
 File Name: 14679\_pUT-P708.dgn  
 Horiz. Scale: 1:60      Vert. Scale: As Noted

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation  
 8833 South Wadsworth Court  
 Littleton, CO 80128  
 Phone: 303-972-9112    FAX: 303-972-9114  
 Region 6      RLB

As Constructed  
 No Revisions:  
 Revised:  
 Void:

PROPOSED UTILITY PLAN  
 C470/SANTA FE FLYOVER PROJECT  
 Designer: MPA  
 Detailer: MPA  
 Sheet Subset: UTL PLN

Project No./Code  
 ES6 0852-103  
 17679  
 Sheet Number 46

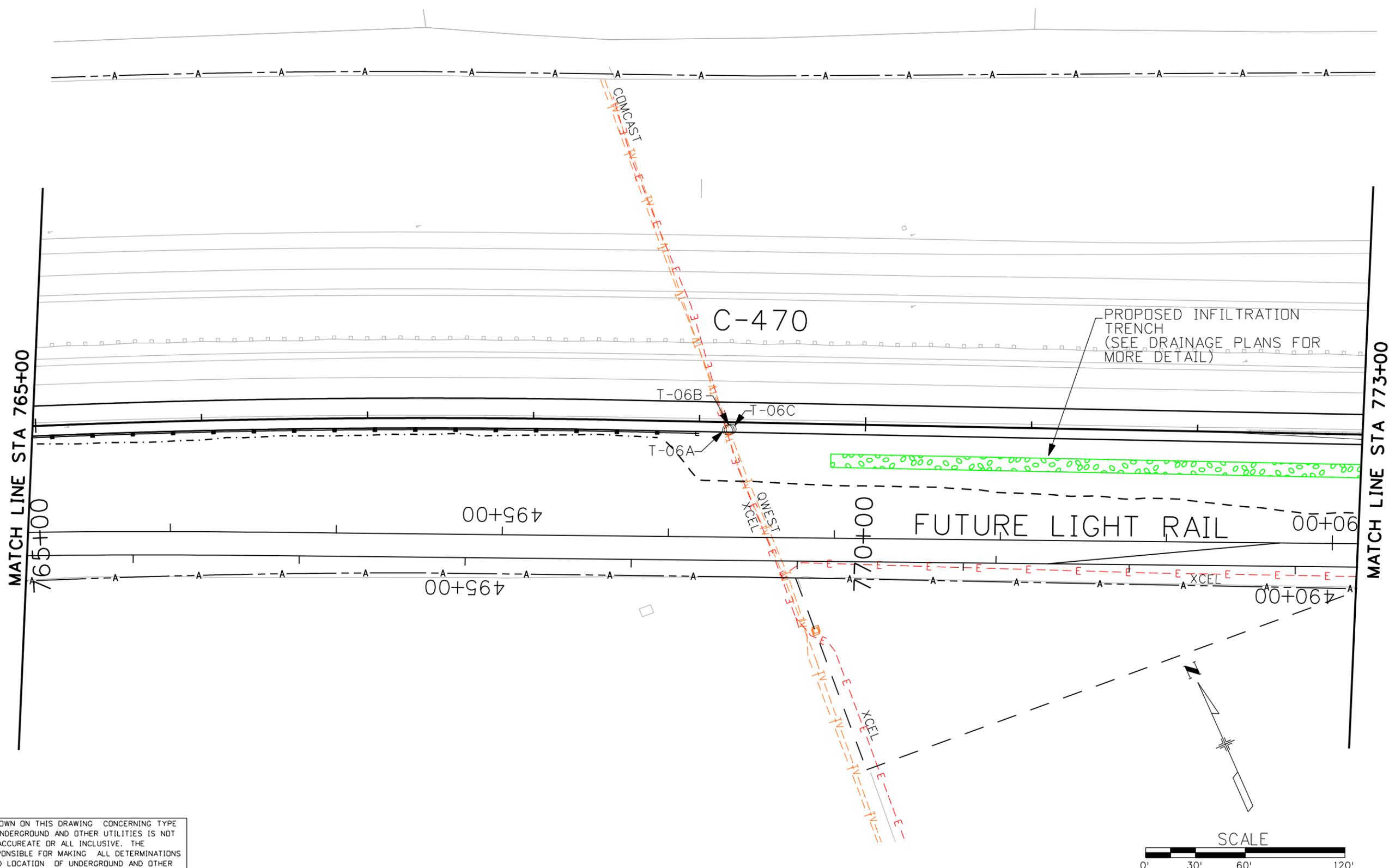


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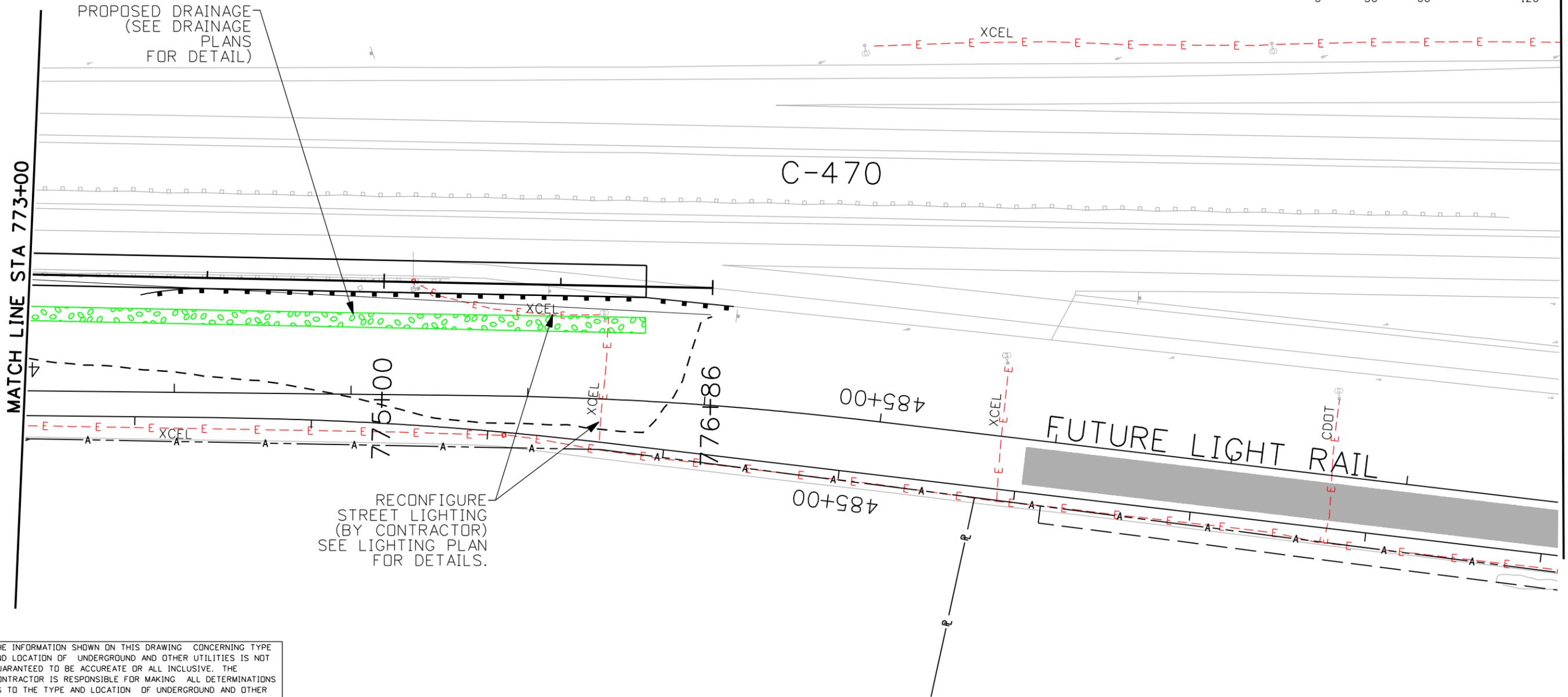
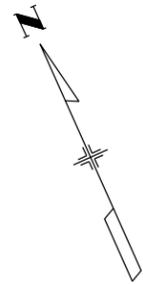
Region 6      RLB

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No Revisions:
Revised:
Void:

<b>PROPOSED UTILITY PLAN</b>	
<b>C470/SANTA FE FLYOVER PROJECT</b>	
Designer: MPA	Structure Numbers
Detailer: MPA	
Sheet Subset: UTL PLN	Subset Sheets: 13 of 17

<b>Project No./Code</b>
ES6 0852-103
17679
Sheet Number 47

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MATCH LINE STA 773+00

SEE SHEET 15 IN UTILITY SUBSET

PROPOSED DRAINAGE  
(SEE DRAINAGE  
PLANS  
FOR DETAIL)

RECONFIGURE  
STREET LIGHTING  
(BY CONTRACTOR)  
SEE LIGHTING PLAN  
FOR DETAILS.

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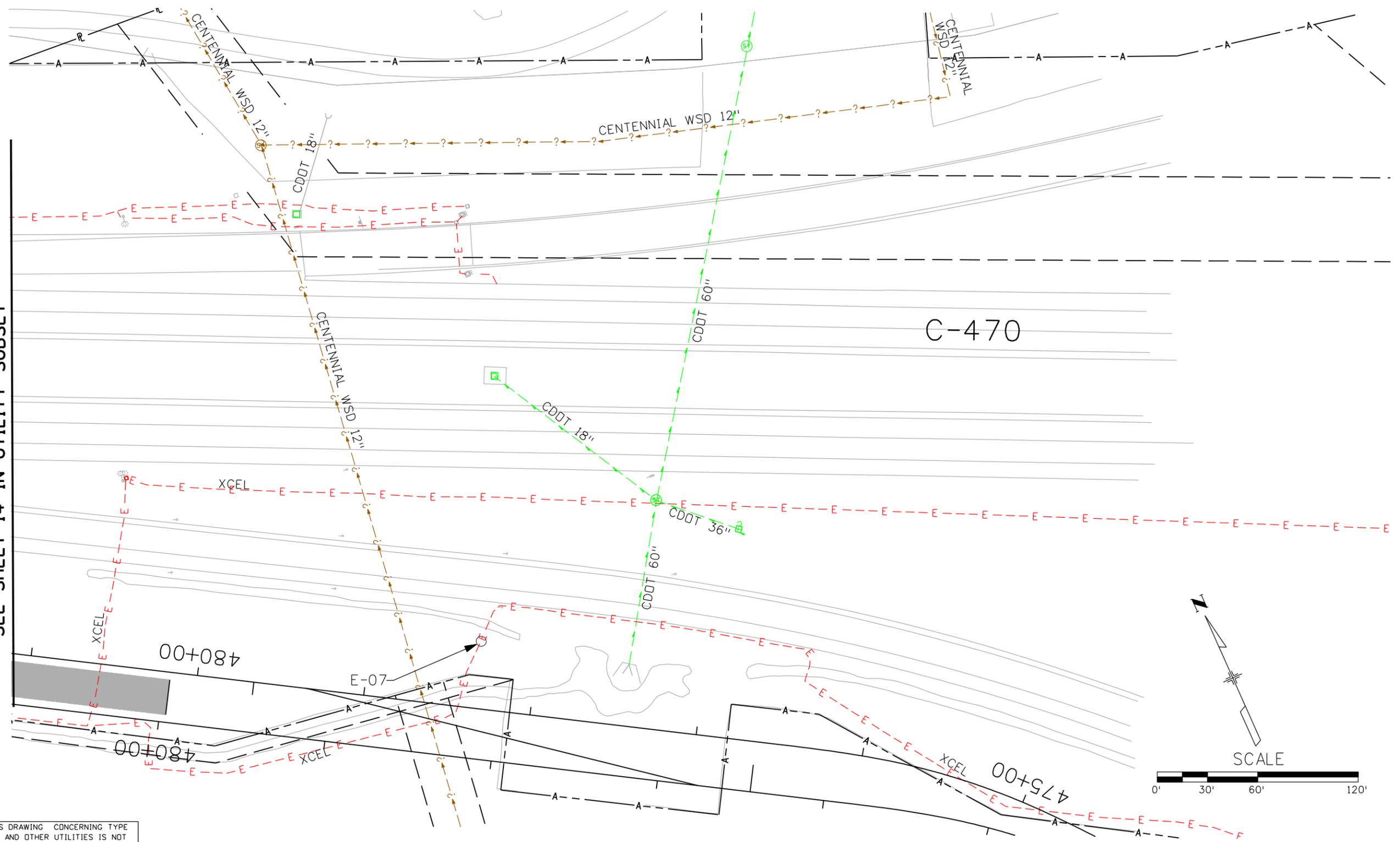
<b>PROPOSED UTILITY PLAN C470/SANTA FE FLYOVER PROJECT</b>	
Designer: MPA	Structure Numbers
Detailer: MPA	
Sheet Subset: UTL PLN	Subset Sheets: 14 of 17

<b>Project No./Code</b>
ES6 0852-103
17679
Sheet Number    48

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SEE SHEET 14 IN UTILITY SUBSET



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PROPOSED UTILITY PLAN  
 C470/SANTA FE FLYOVER PROJECT  
 Designer: MPA  
 Detailer: MPA  
 Sheet Subset: UTL PLN  
 Structure Numbers  
 Subset Sheets: 15 of 17

Project No./Code  
 ES6 0852-103  
 17679  
 Sheet Number 49

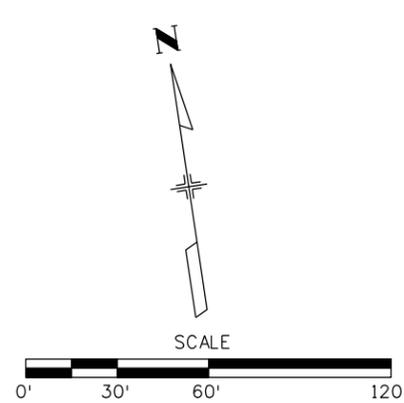
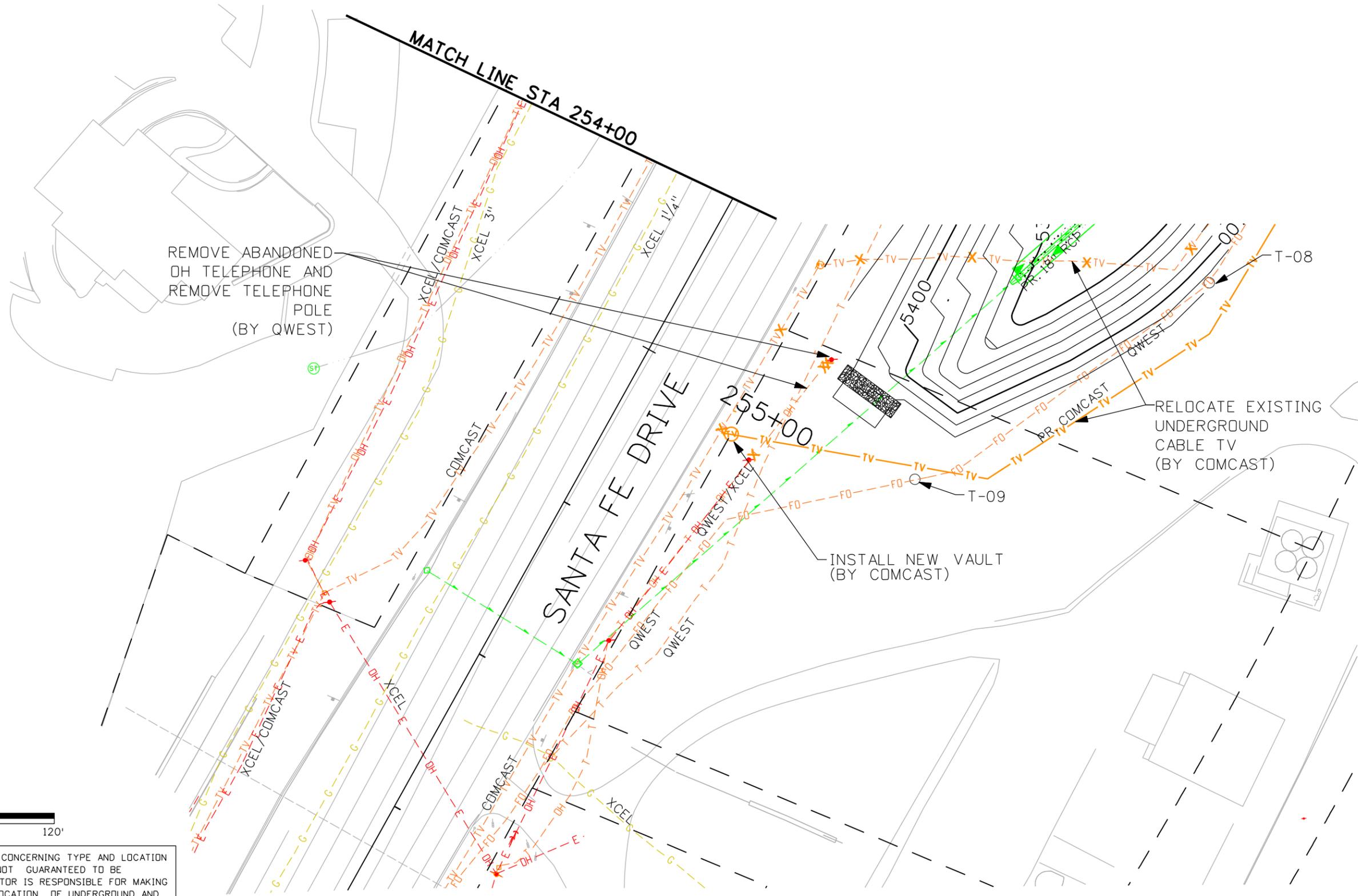


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Horiz. Scale: 1:60 Vert. Scale: As Noted						Revised:		Designer: MPA	Structure Numbers	17679	
				Region 6 RLB		Void:		Detailer: MPA	Subset Sheets: 17 of 17	Sheet Number 51	

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