

COUNTY OF PALM BEACH
STATE OF FLORIDA

LYONS ROAD

N OF L.W.D.D. L-30 CANAL TO BOYNTON BEACH BLVD.

LIGHTING DESIGN

BOARD OF COUNTY COMMISSIONERS

PROJECT NO. 2018503

MARIA G. MARINO

MAYOR

DISTRICT 1

GREGG K. WEISS

DISTRICT 2

MARCI WOODWARD

DISTRICT 4

SARA BAXTER

VICE MAYOR

DISTRICT 6



JOEL G. FLORES

DISTRICT 3

MARIA SACHS

DISTRICT 5

BOBBY POWELL JR.

DISTRICT 7

100% SUBMITTAL

GOVERNING STANDARDS:

THE FDOT ROADWAY & TRAFFIC DEISGN STANDARDS FY 2025-26
AND SUPPLEMENTS AND ALL PROVISIONS THERETO NOTED IN THE CONTRACT
FOR THIS PROJECT.

GOVERNING SPECIFICATIONS ARE CONTAINED IN THE CONTRACT DOCUMENTS
FOR THIS PROJECT.



PROPEL ENGINEERING, LLC.

2711 N VISTA PARKWAY, SUITE B-7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E.# 61600

No.	Revisions	By	Date



PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

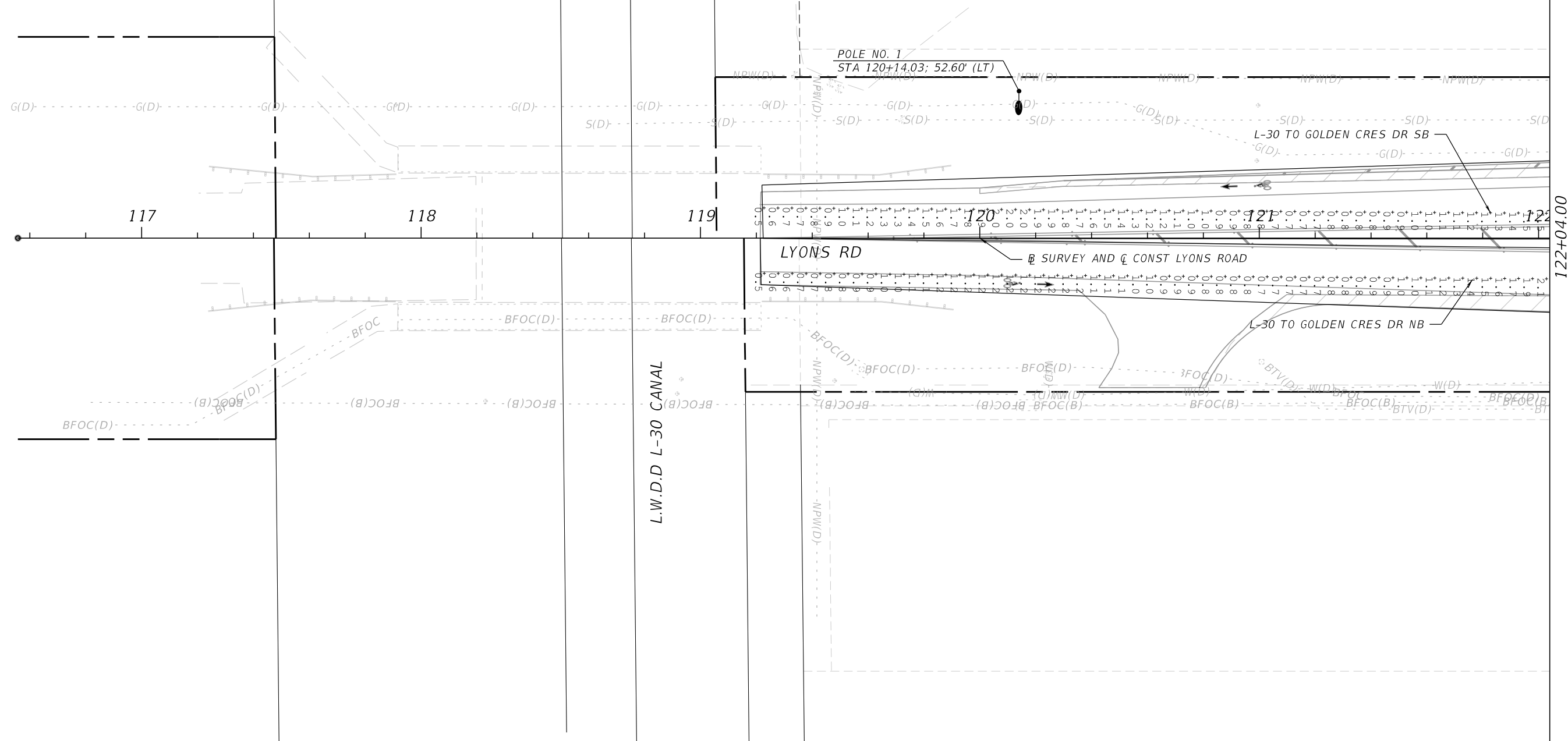
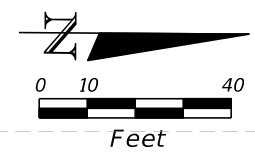
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APPROVED: MA
DRAWN: DS
CHECKED: IA
DATE: 10/20/2025

LYONS ROAD
L.W.D.D. L-30 CANAL TO BOYNTON BEACH BLVD.

COVER SHEET

SHEET: 1
OF: 31

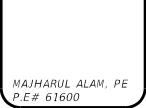
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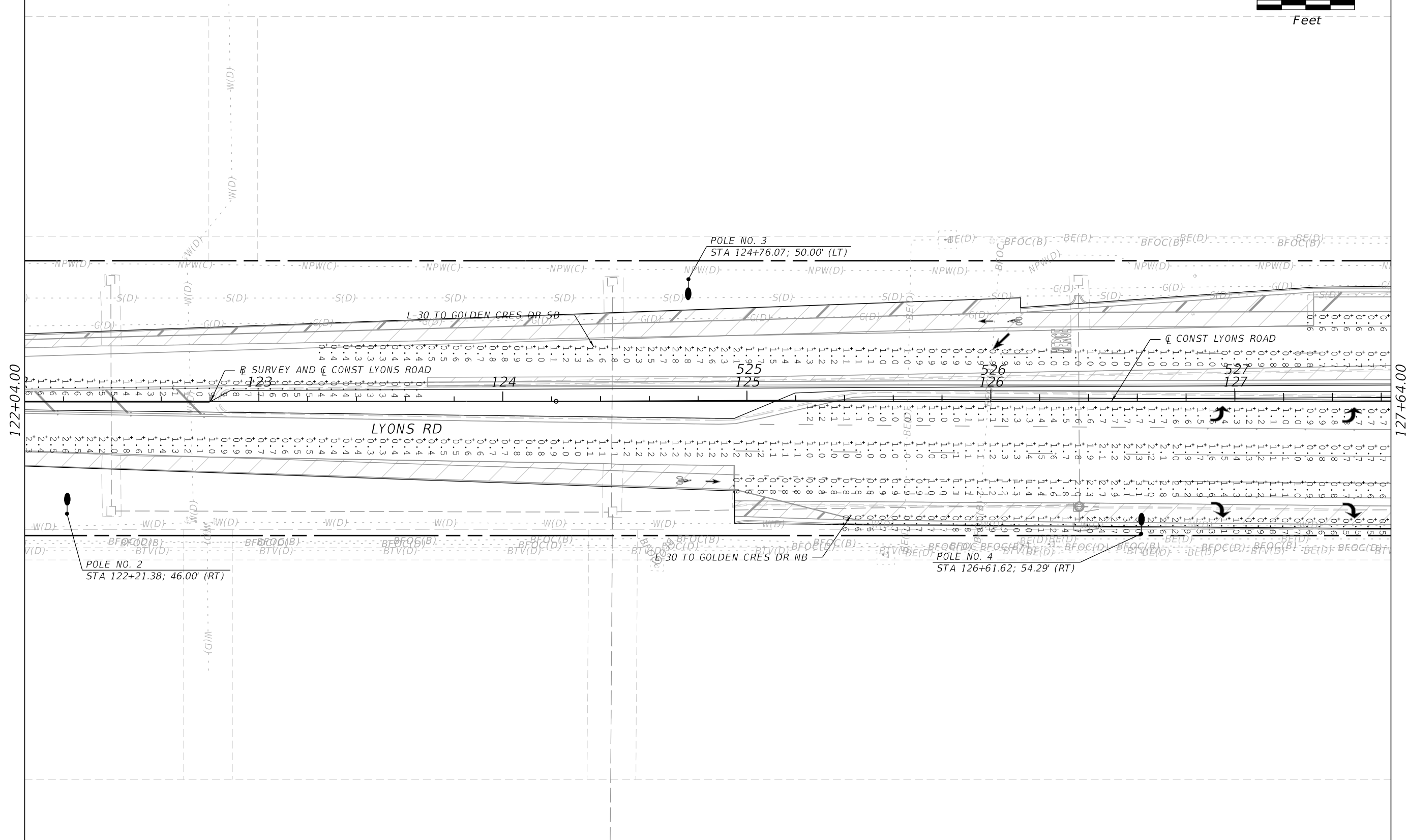
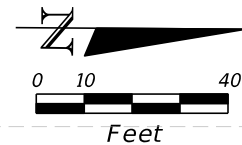
PALM BEACH COUNTY
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LYONS ROAD
L.W.D.D. L-30 CANAL TO BOYNTON BEACH BLVD.
LIGHTING ANALYSIS

SHEET: 2
OF: 31
PROJECT NO.
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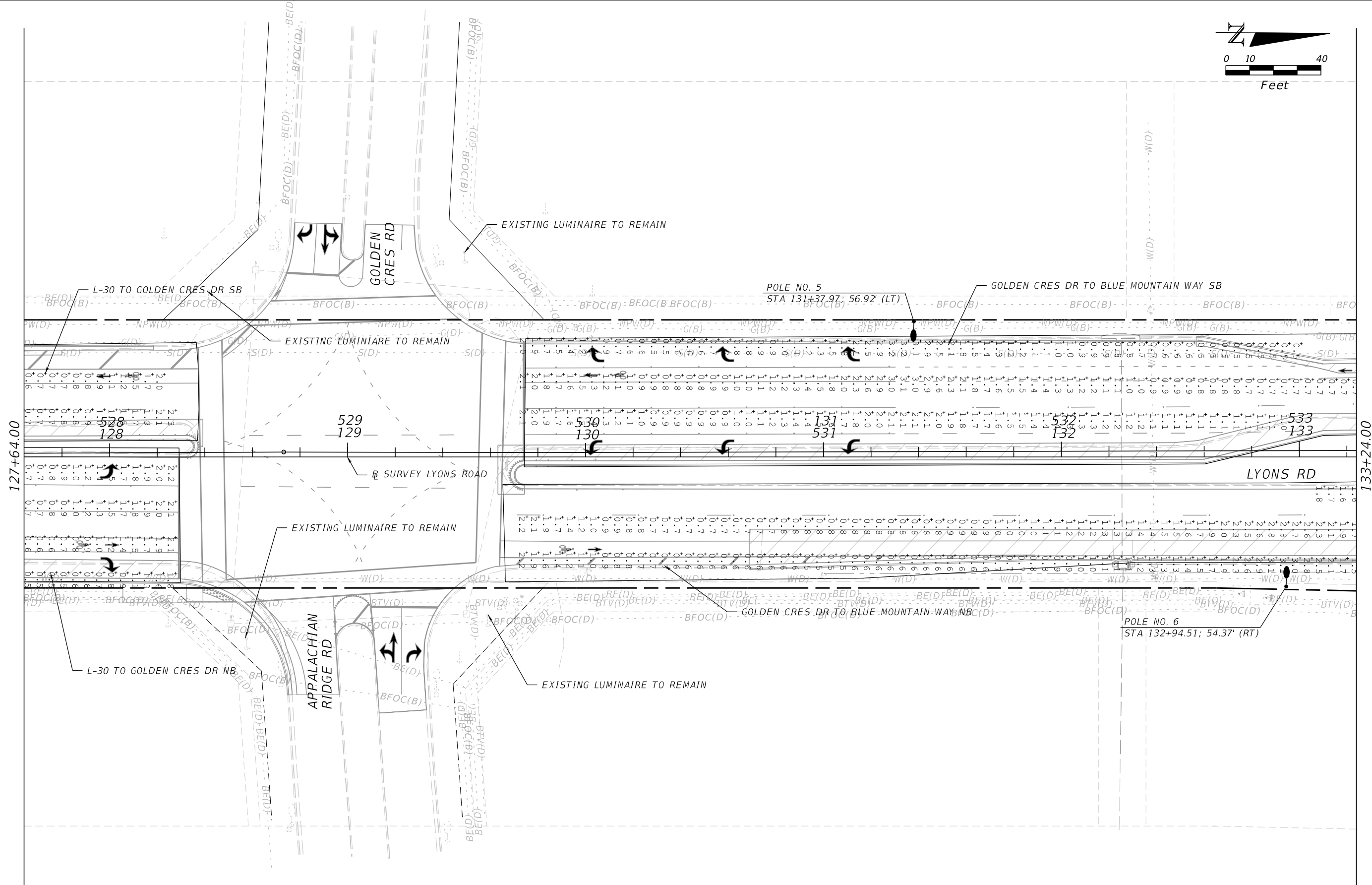
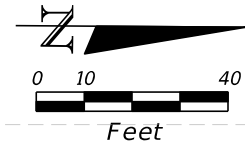


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LIGHTING ANALYSIS

SHEET: 3
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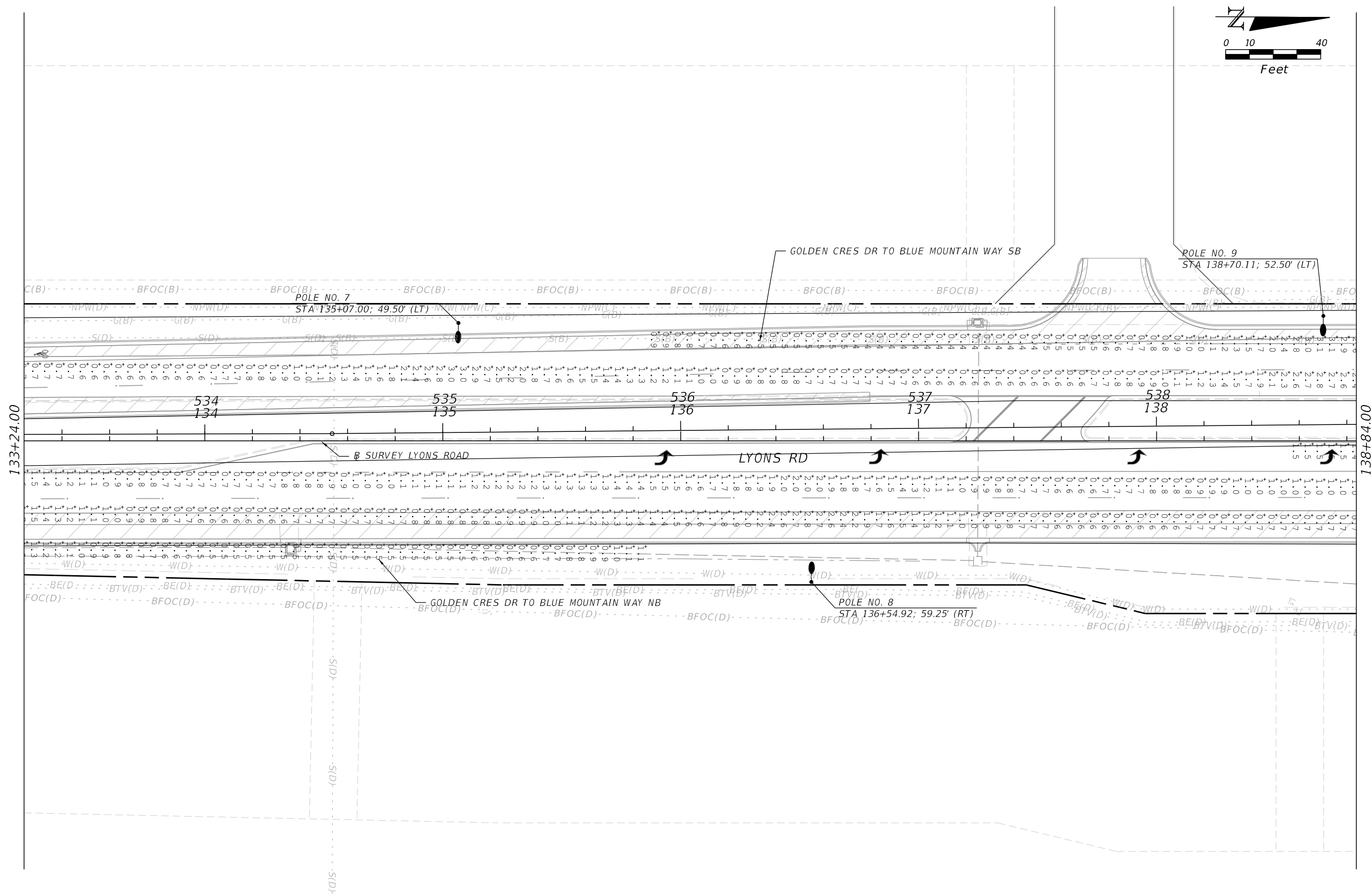
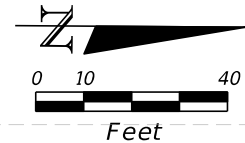


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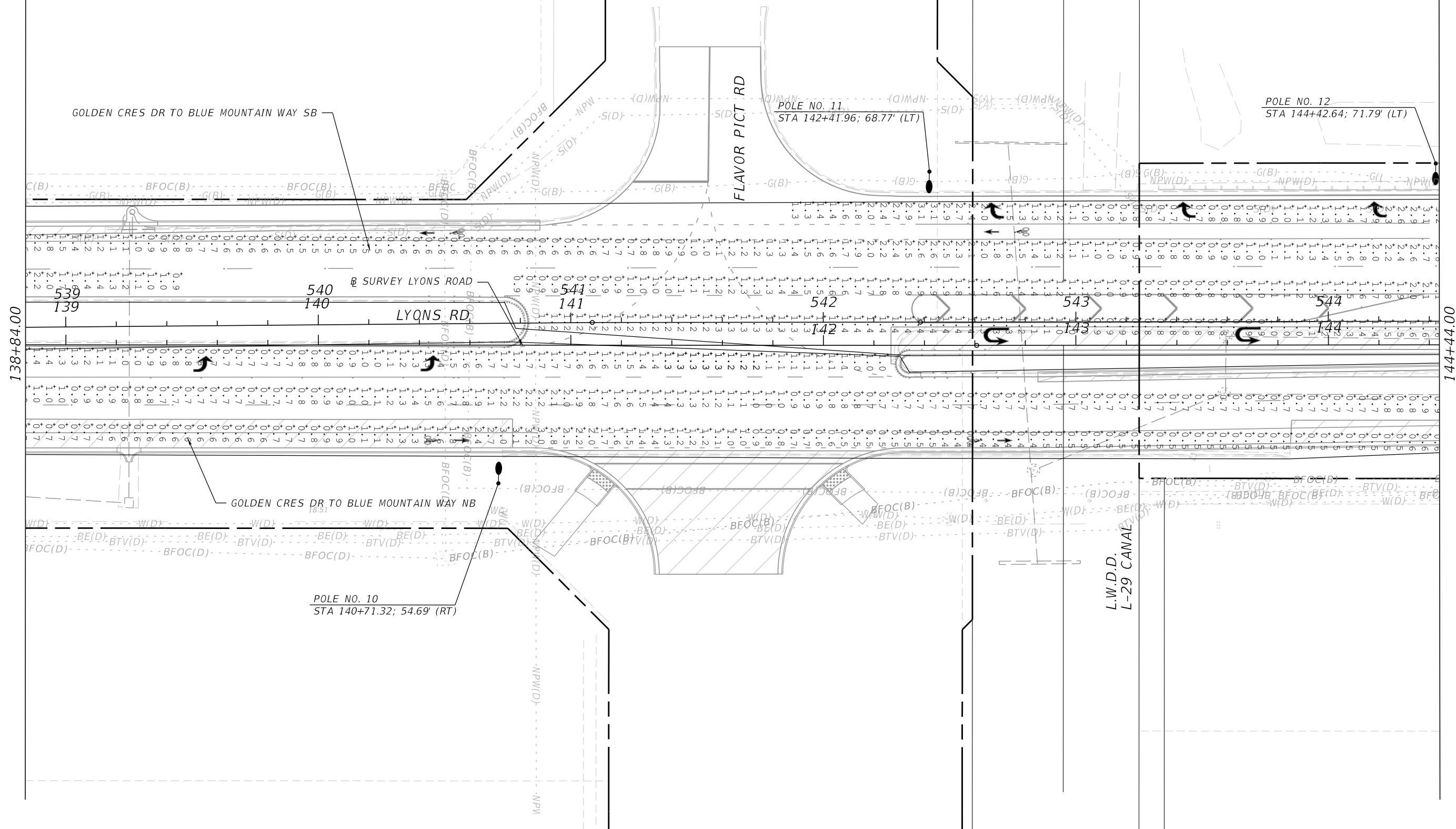
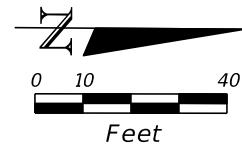
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LIGHTING ANALYSIS

SHEET: 5
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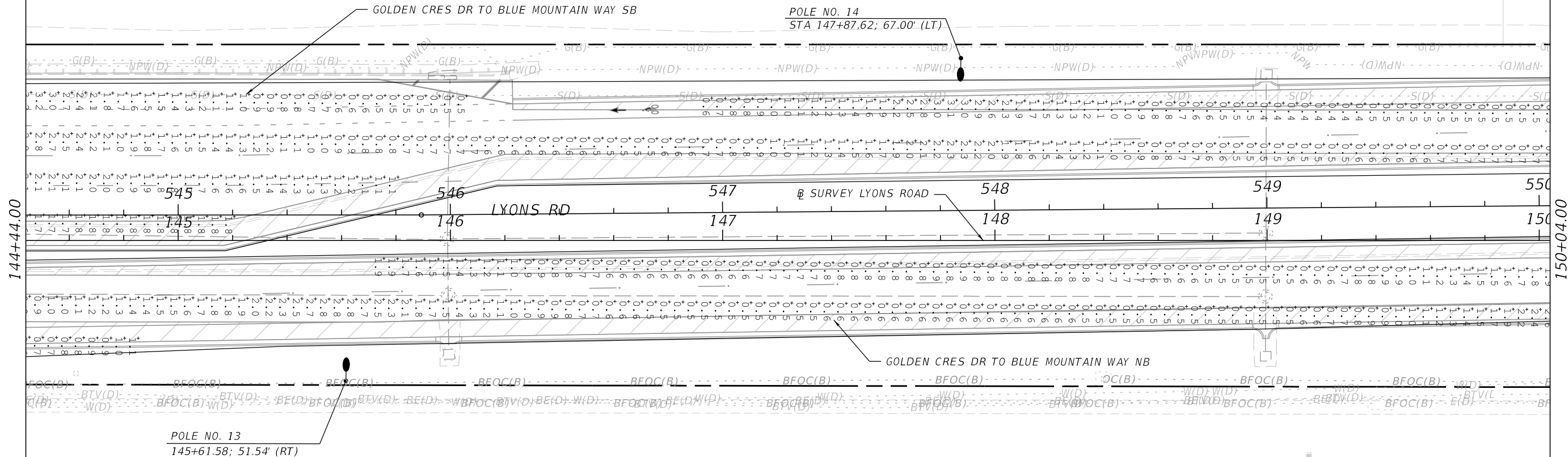
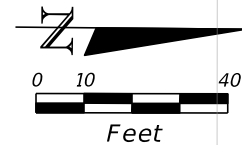


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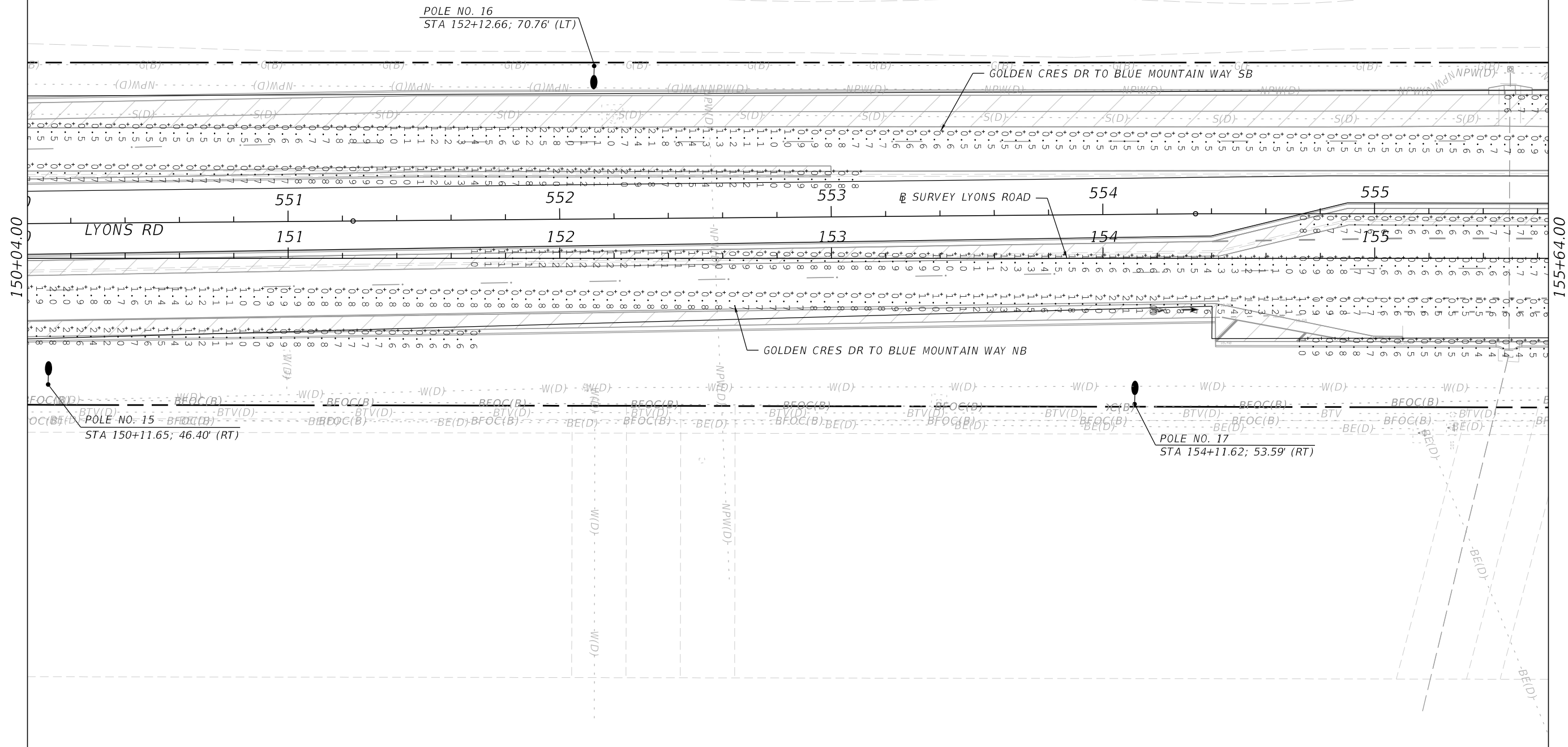
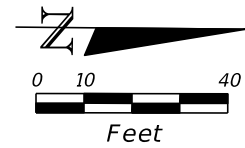


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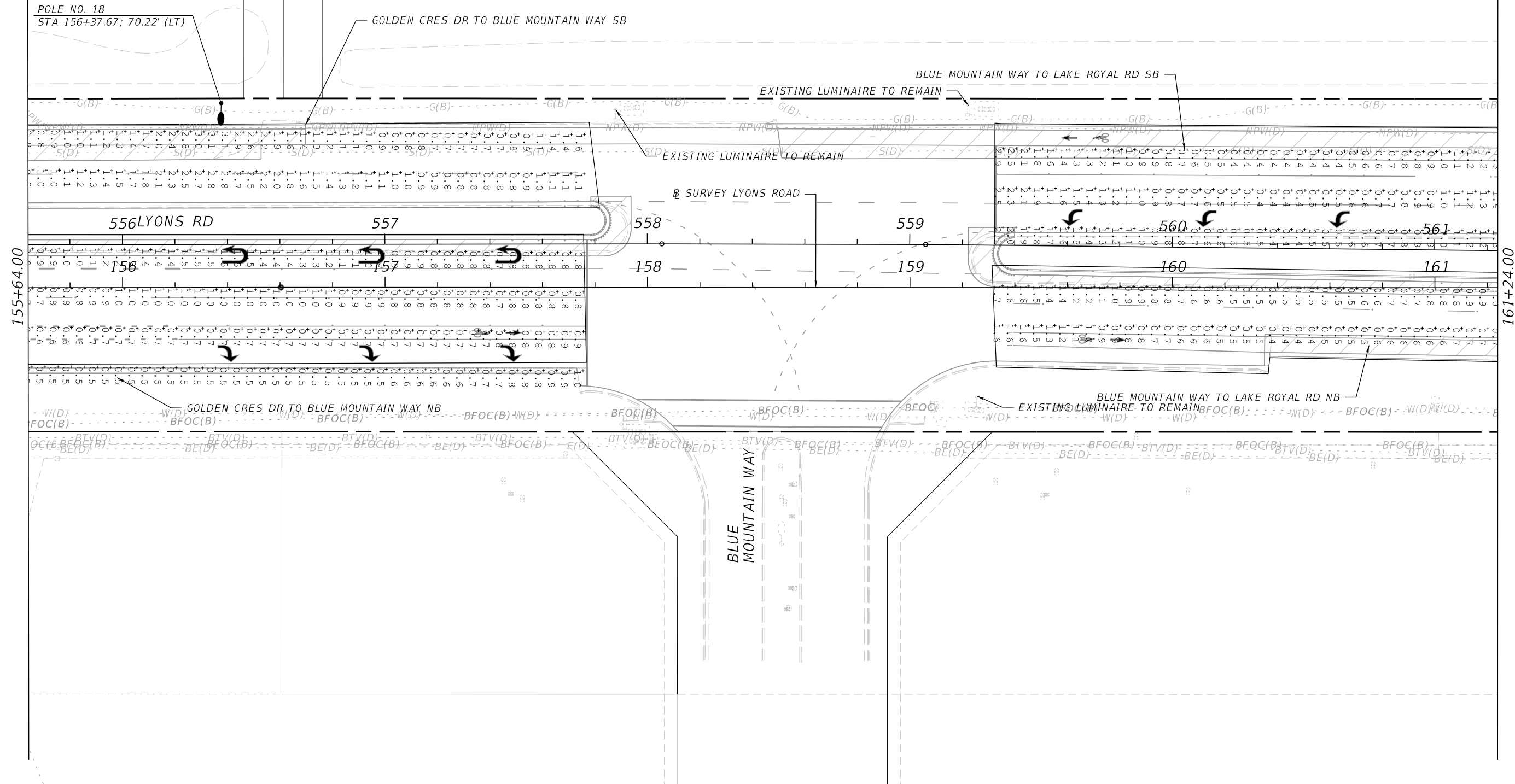
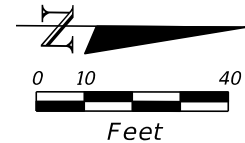


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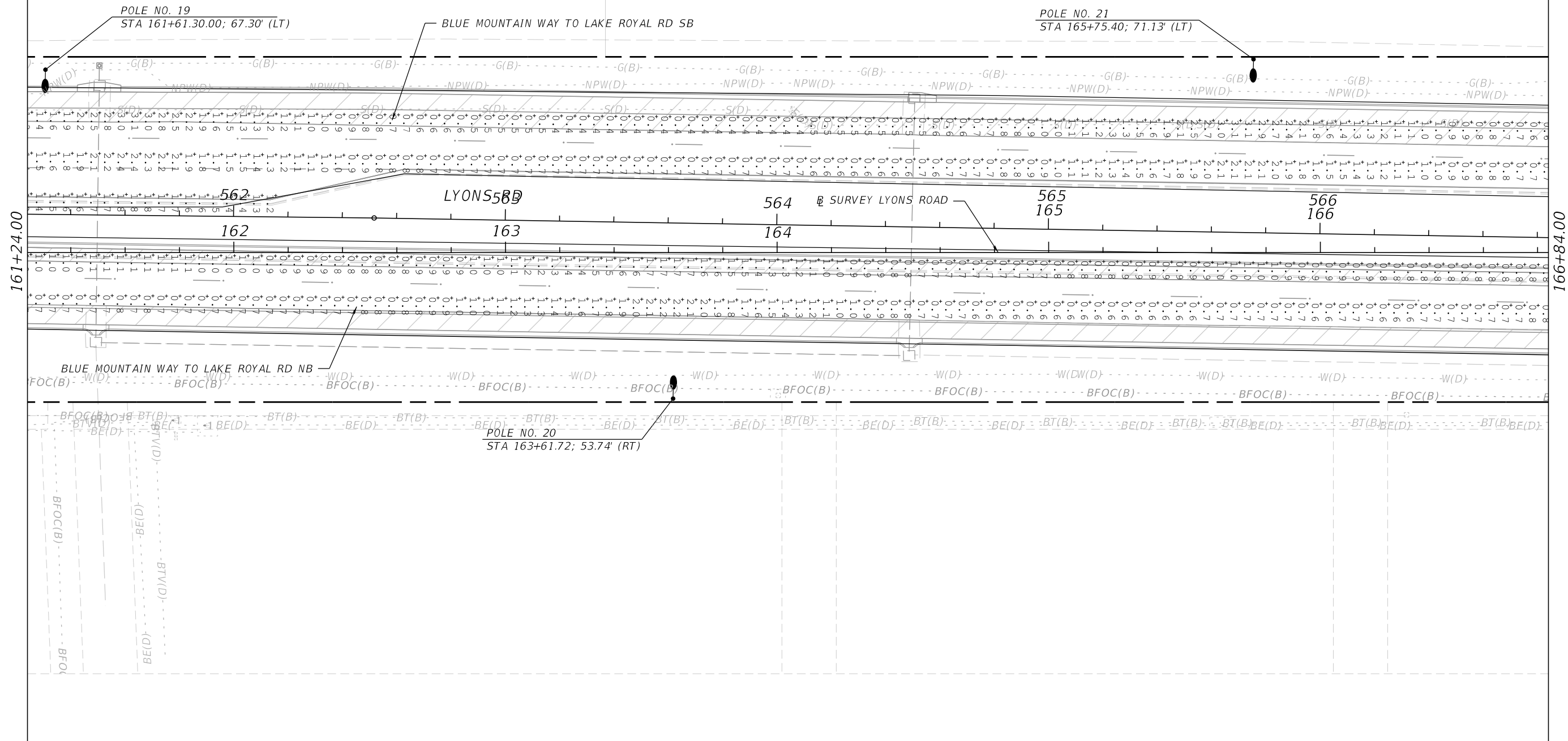
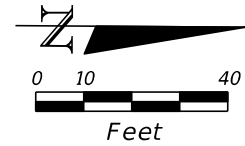
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SHEET: 9
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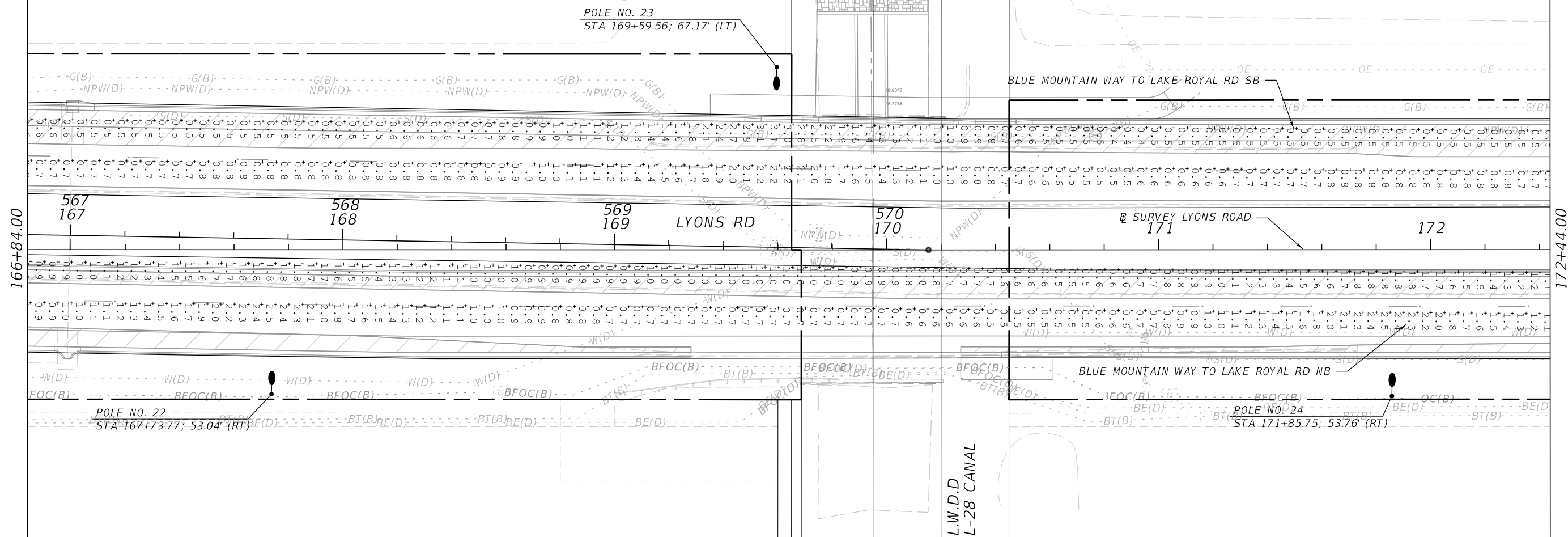
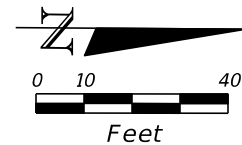


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SHEET: 10
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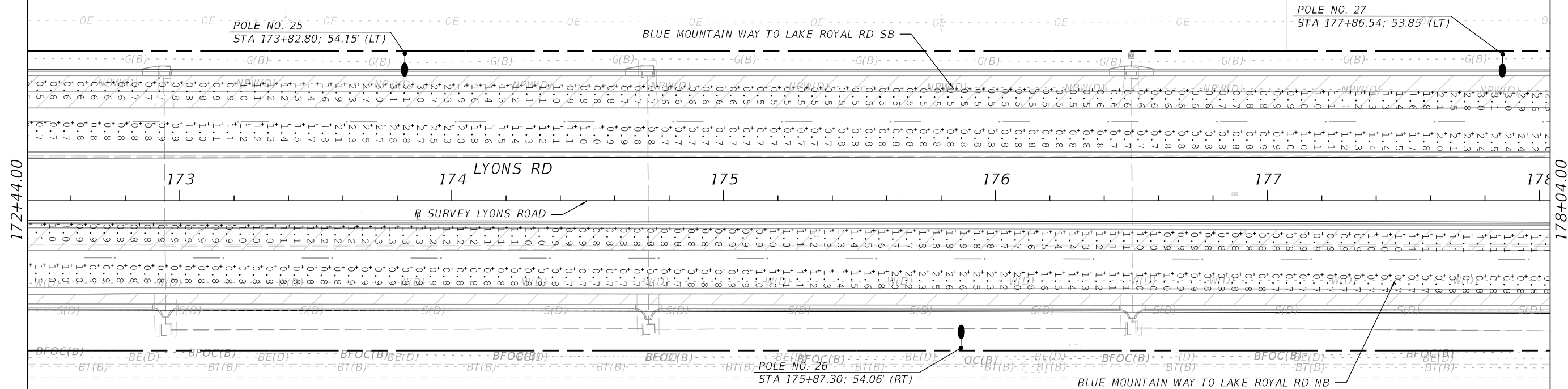
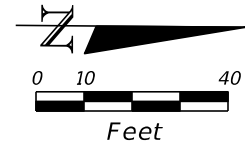
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L.W.D. L-30 CANAL TO BOYNTON BEACH BLVD.
LIGHTING ANALYSIS

SHEET: 11
OF: 31
PROJECT NO.
2018503

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LIGHTING ANALYSIS

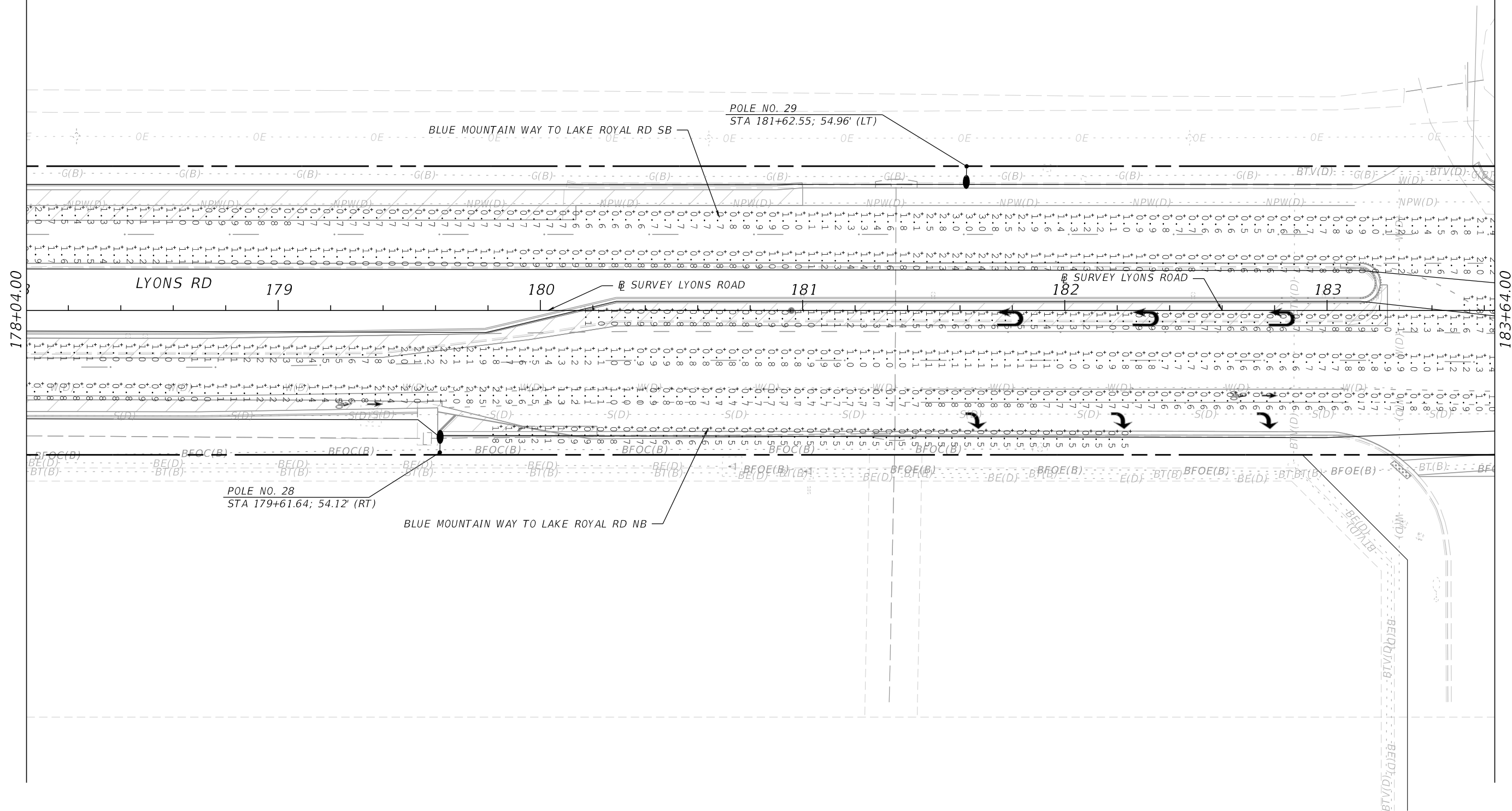
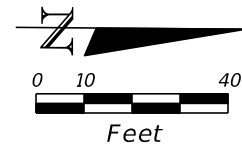
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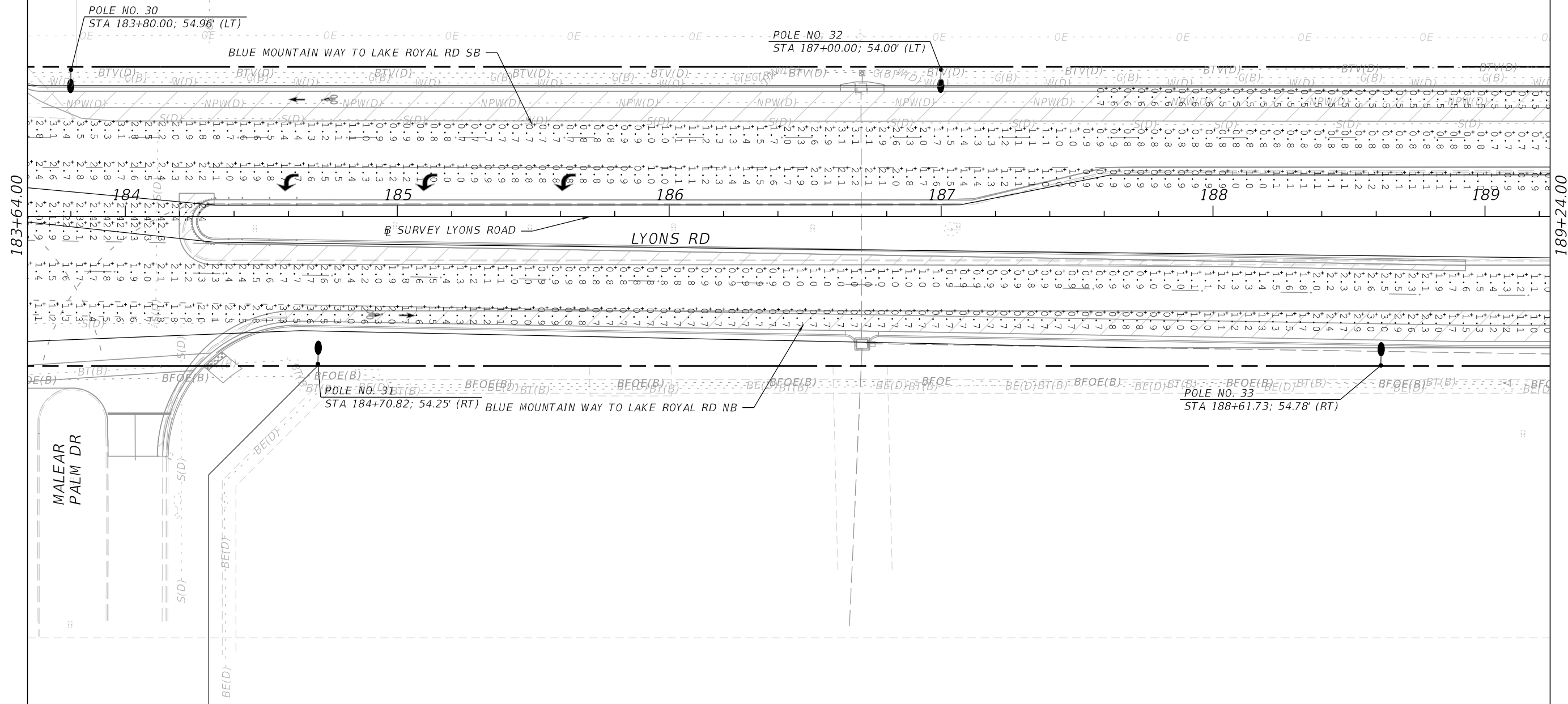
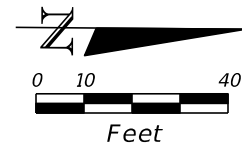
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SHEET: 13
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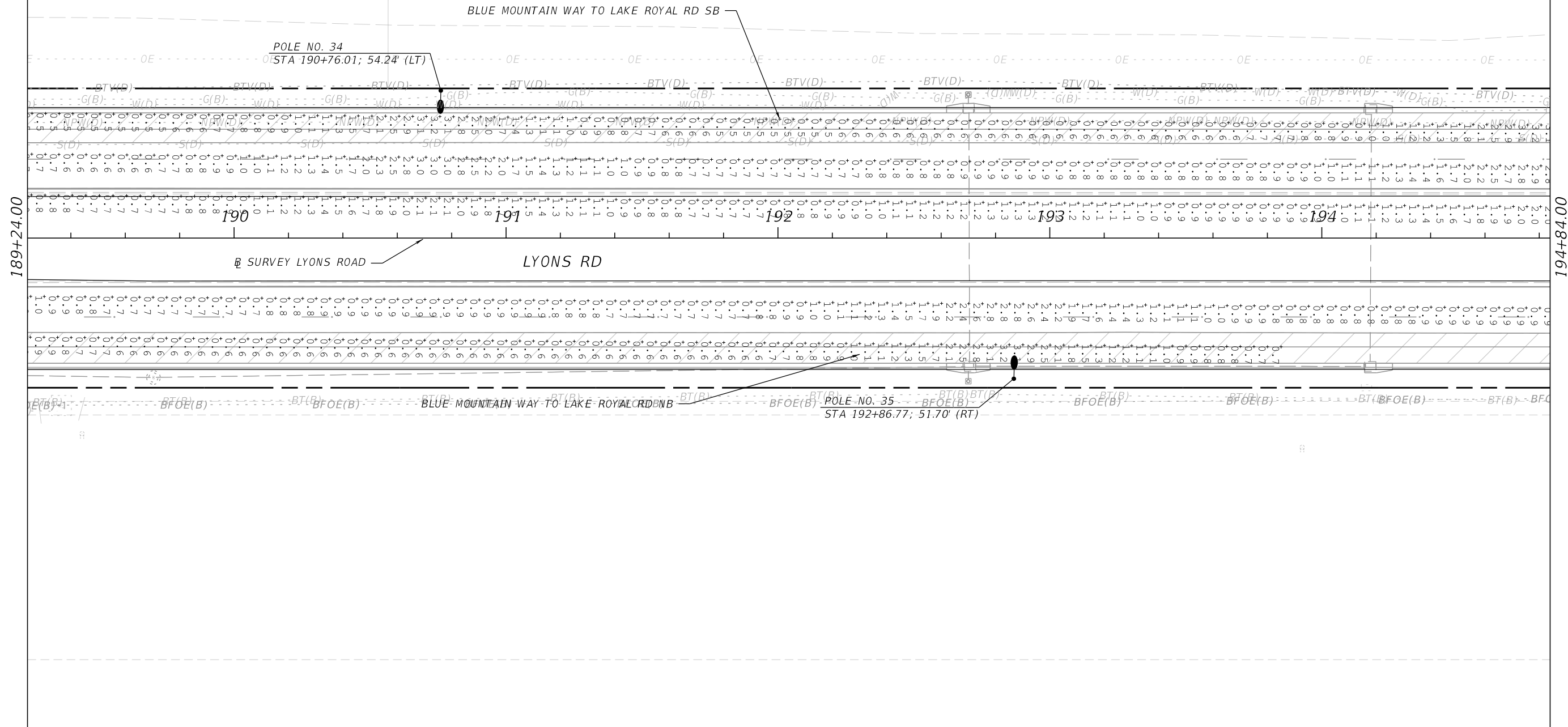
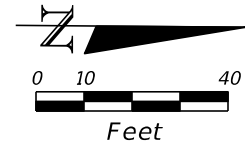
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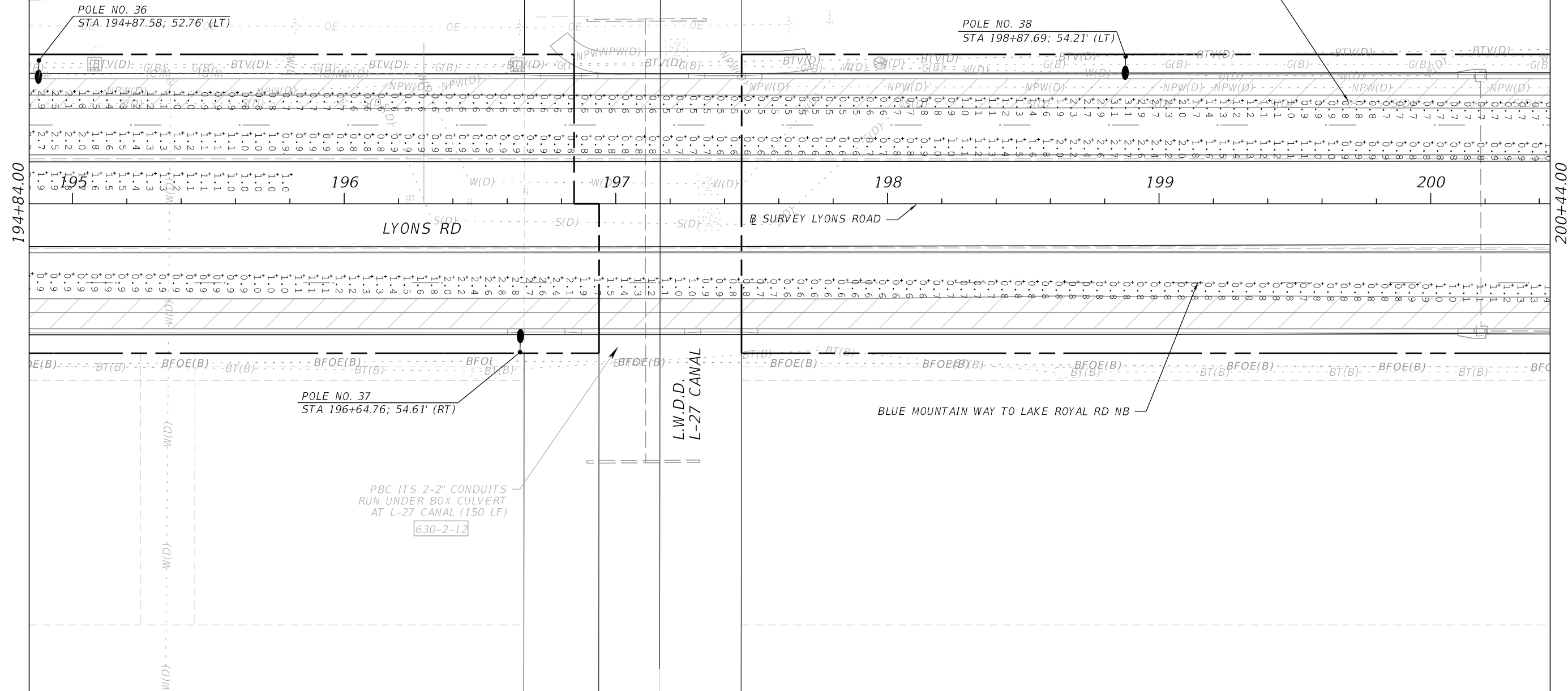
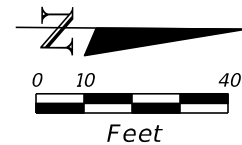
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OF: 31
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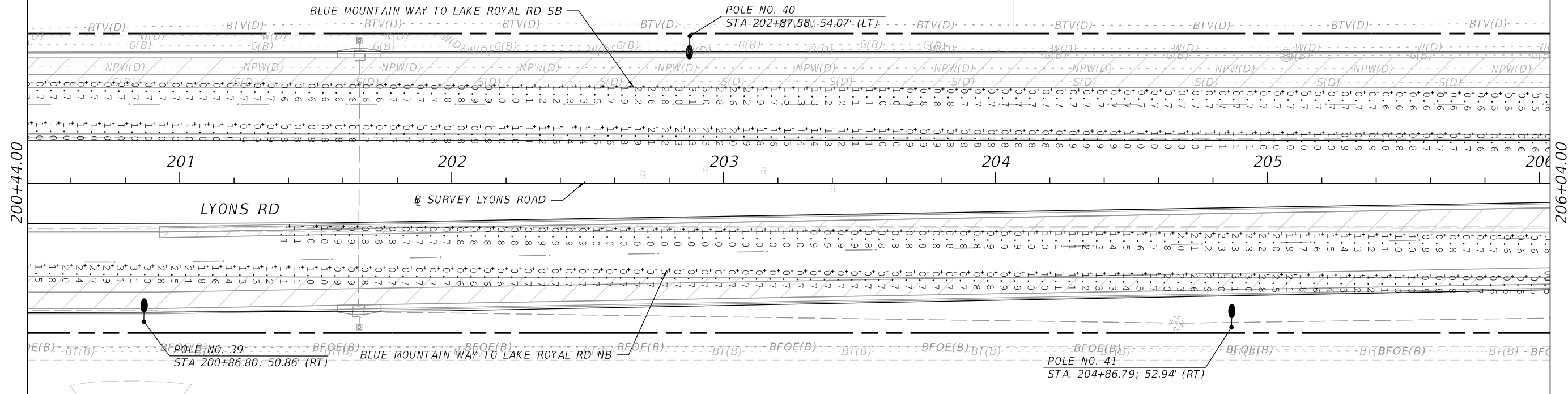
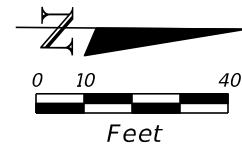


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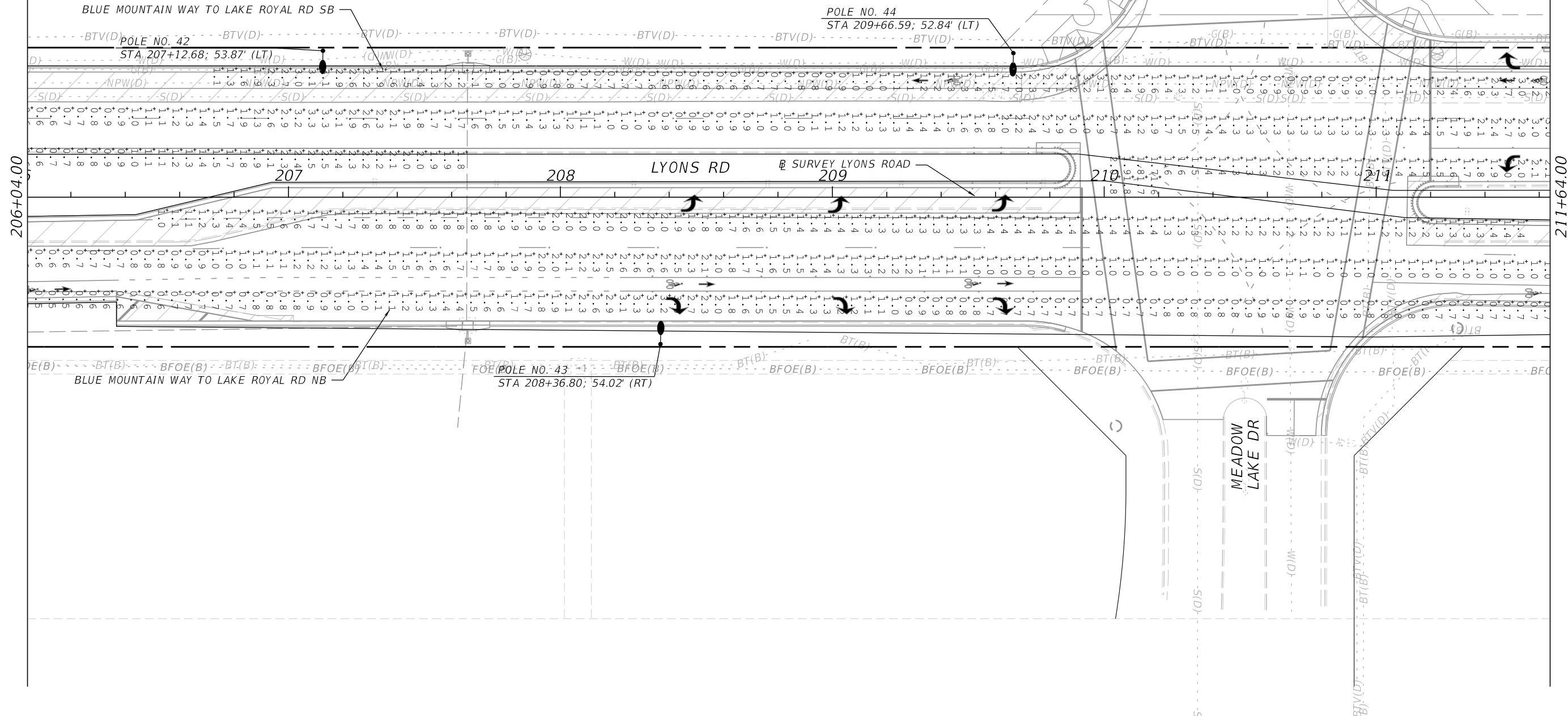
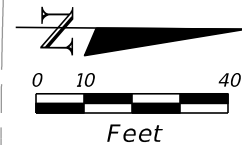


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LIGHTING ANALYSIS

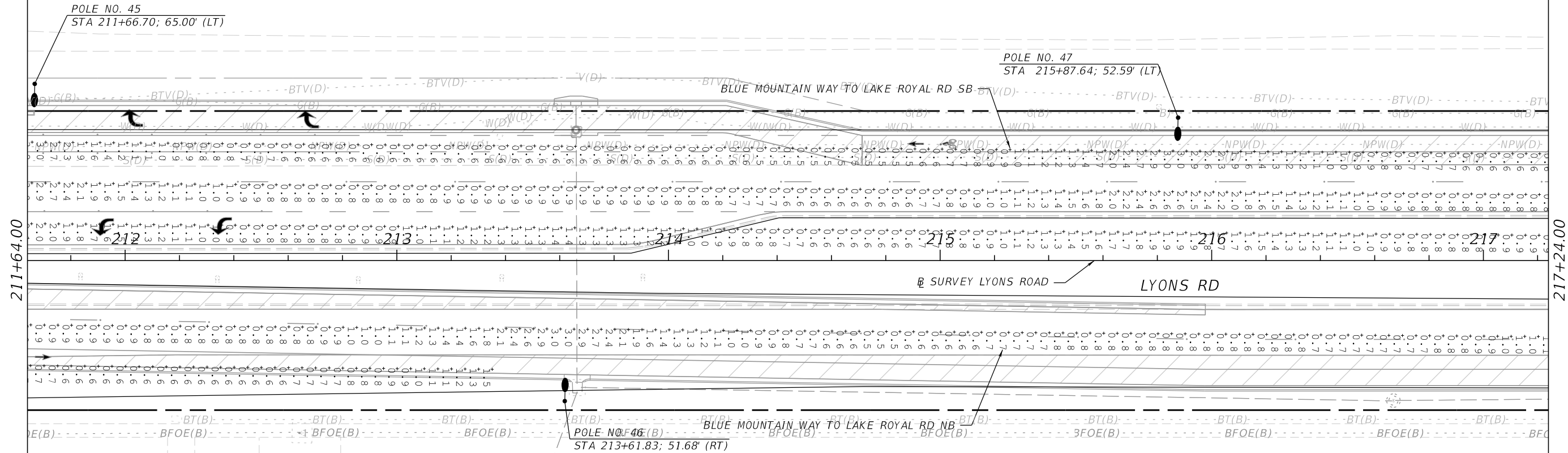
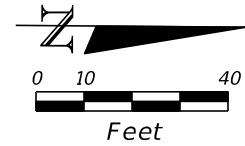
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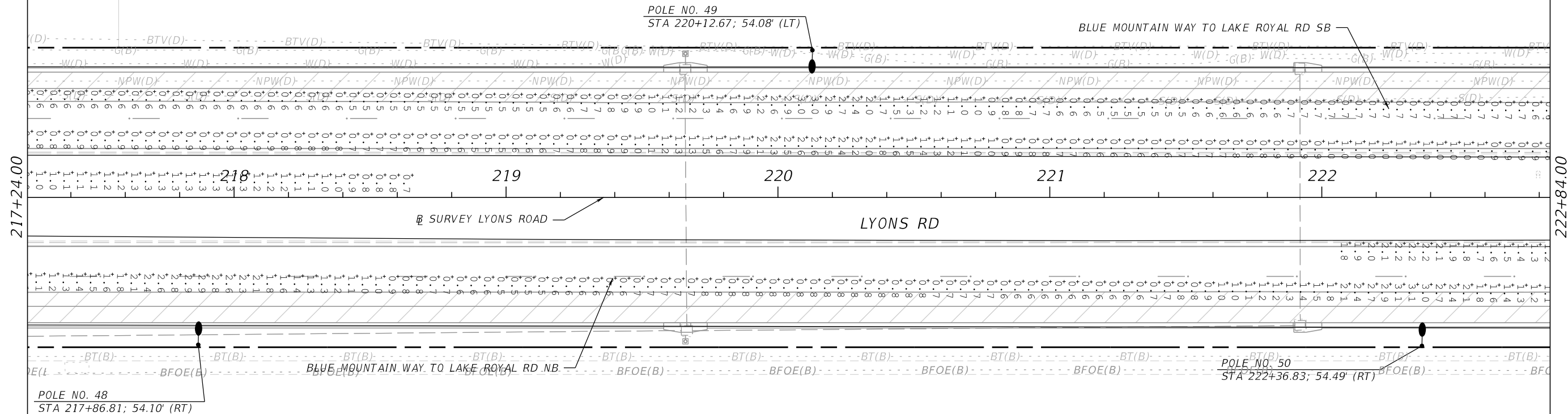
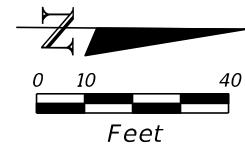
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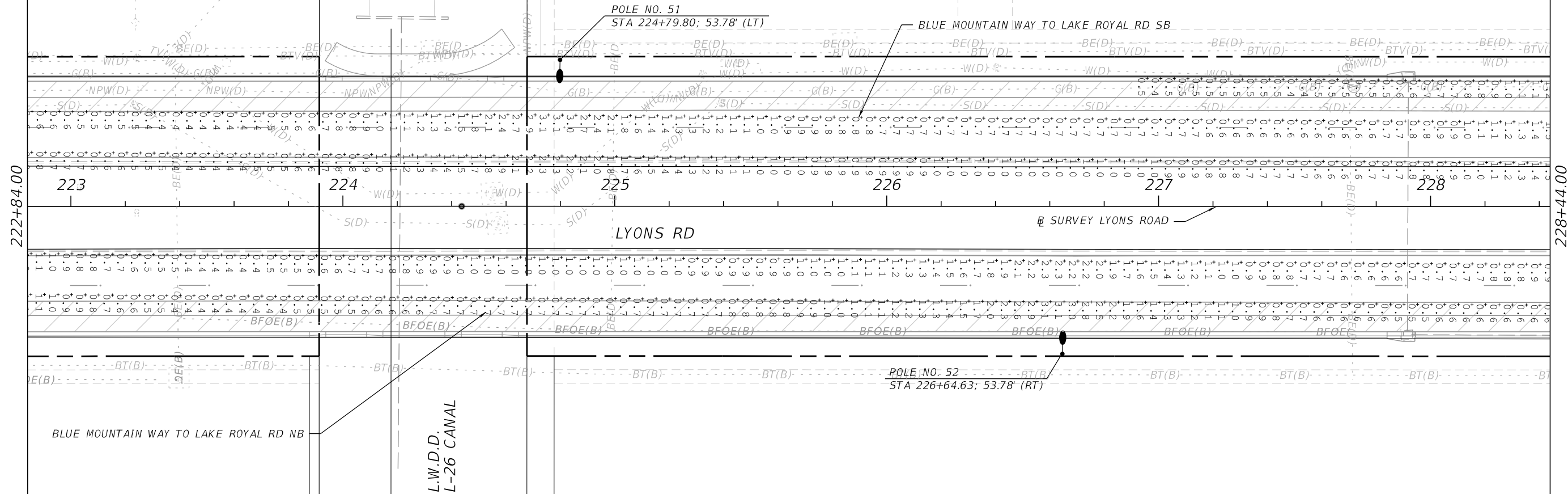
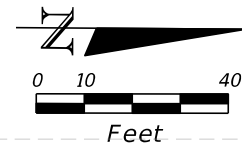
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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E.# 61600

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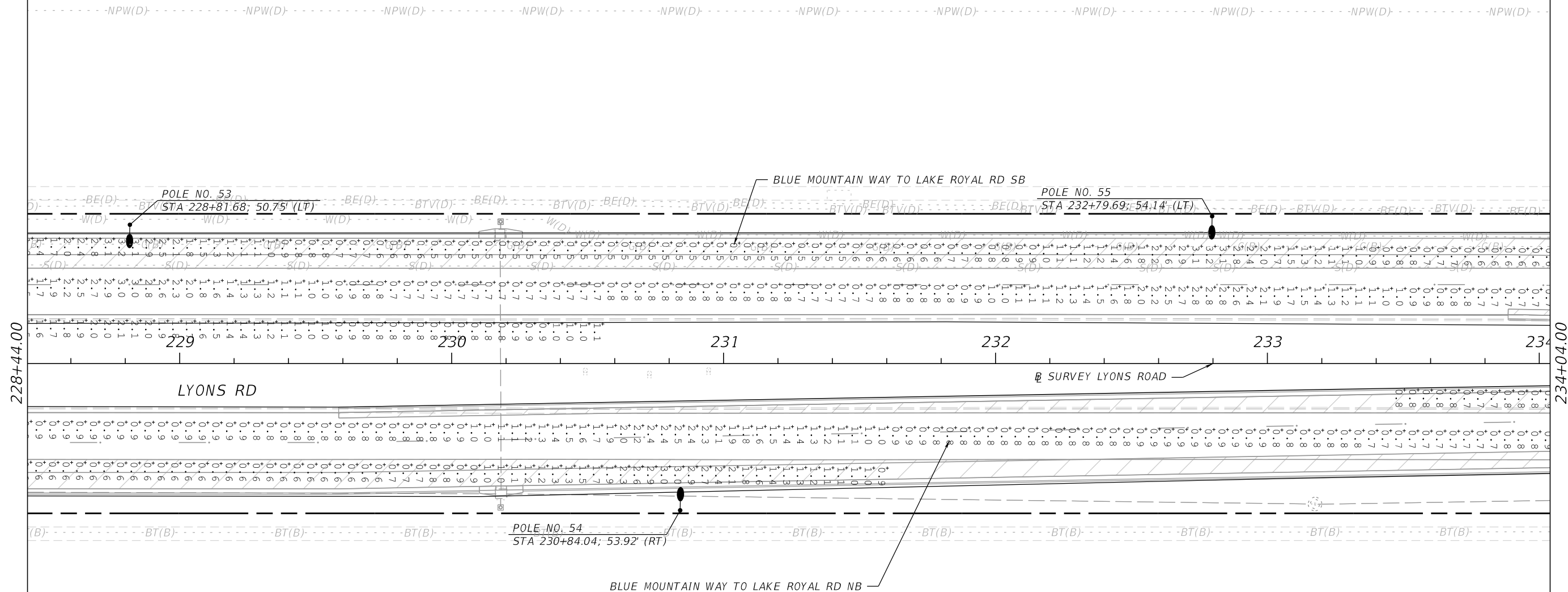
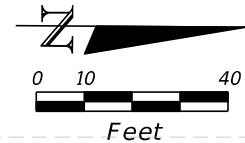
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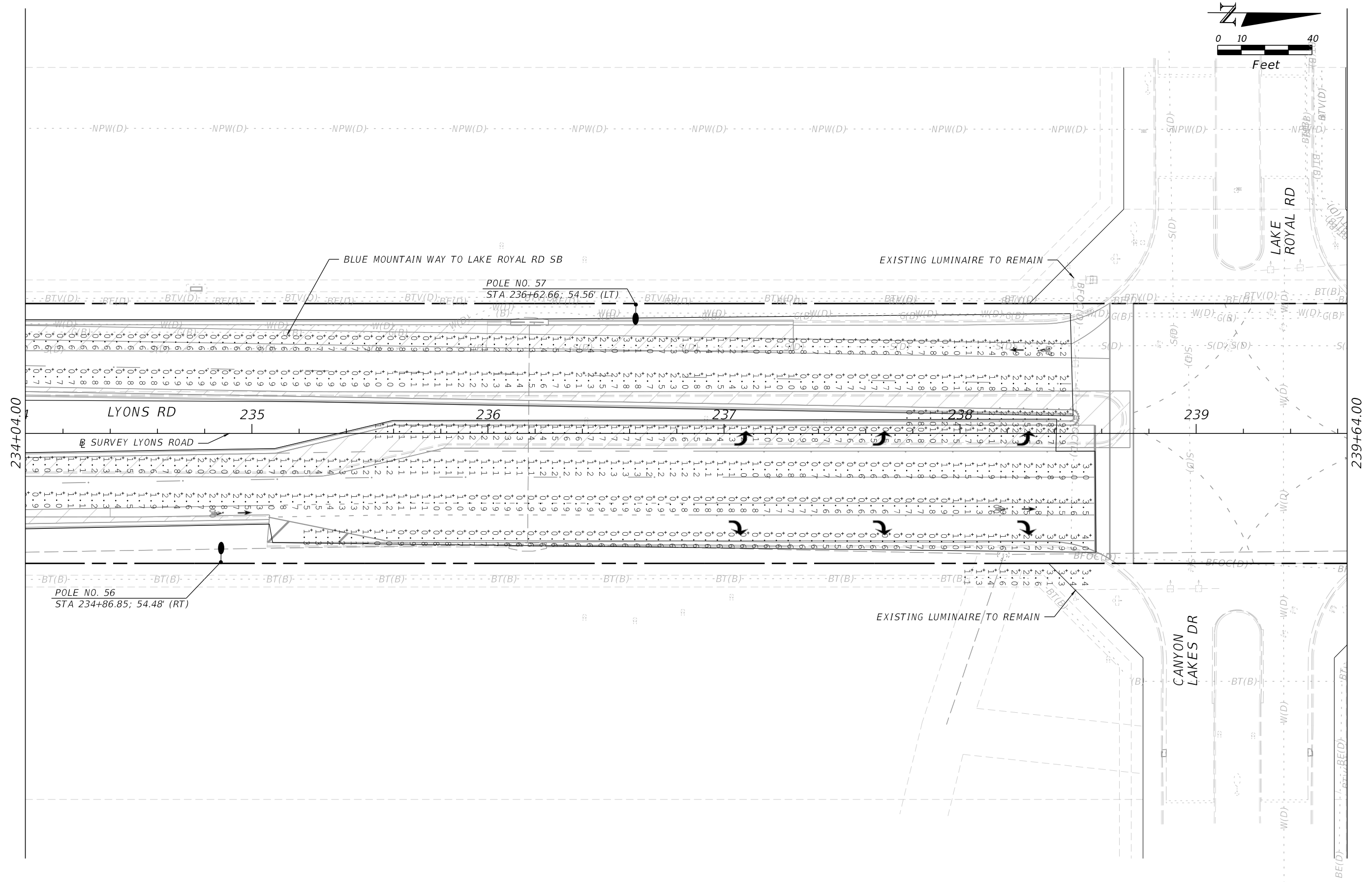
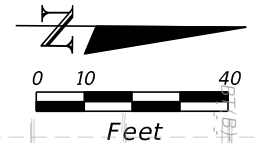
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LYONS ROAD
L.W.D.D. L-30 CANAL TO BOYNTON BEACH BLVD.
LIGHTING ANALYSIS

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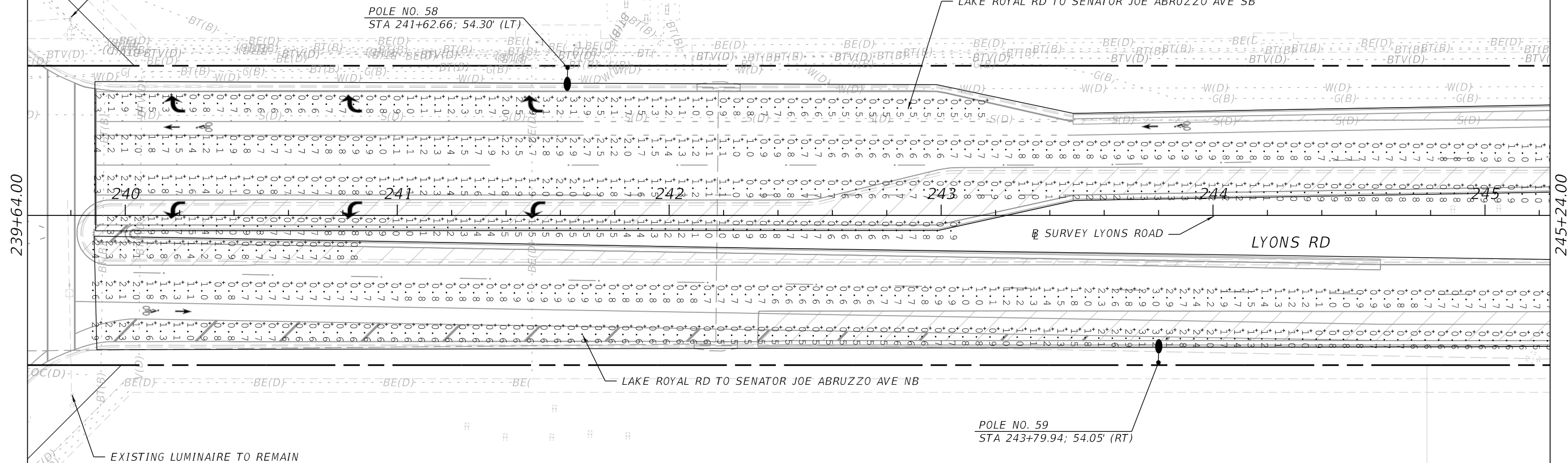
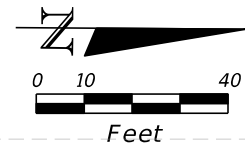
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LYONS ROAD
L.W.D.D. L-30 CANAL TO BOYNTON BEACH BLVD.

LIGHTING ANALYSIS

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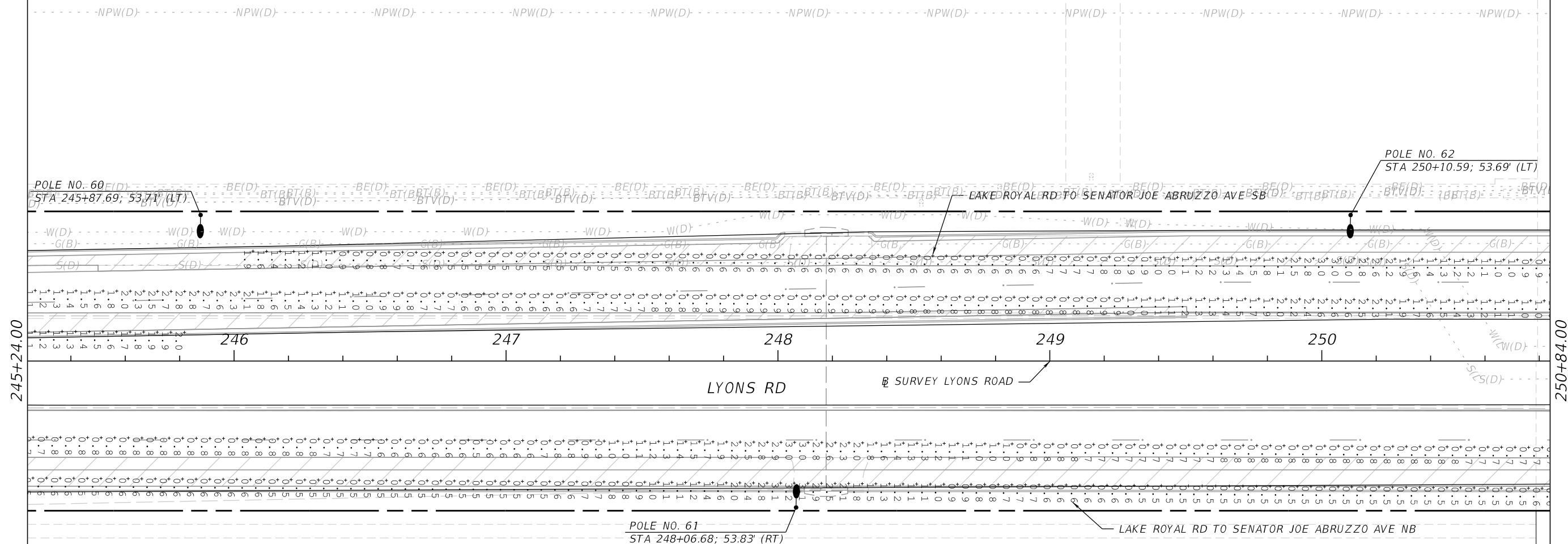
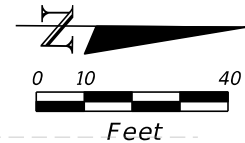


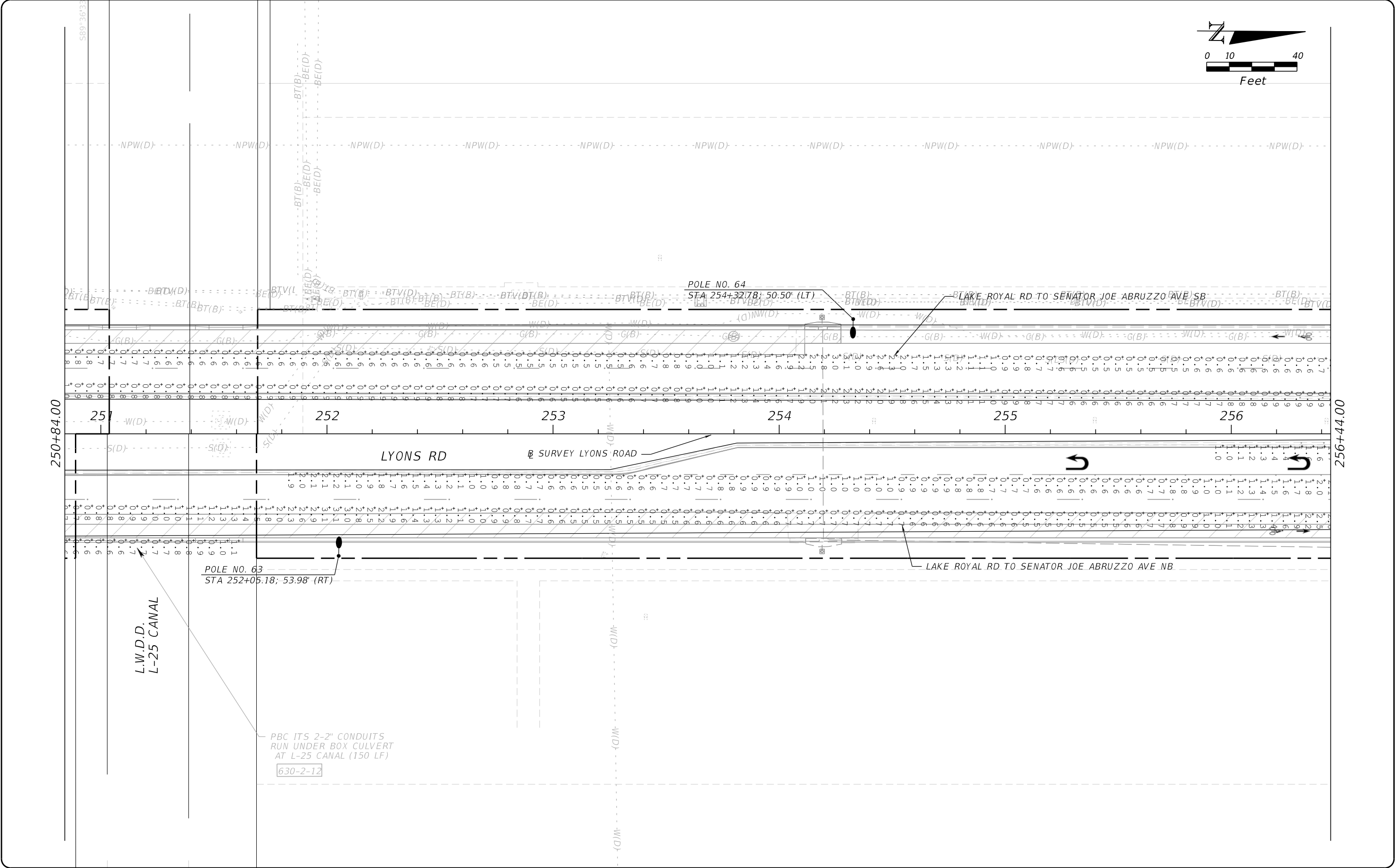
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LYONS ROAD
L.W.D.D. L-30 CANAL TO BOYNTON BEACH BLVD.
LIGHTING ANALYSIS

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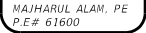






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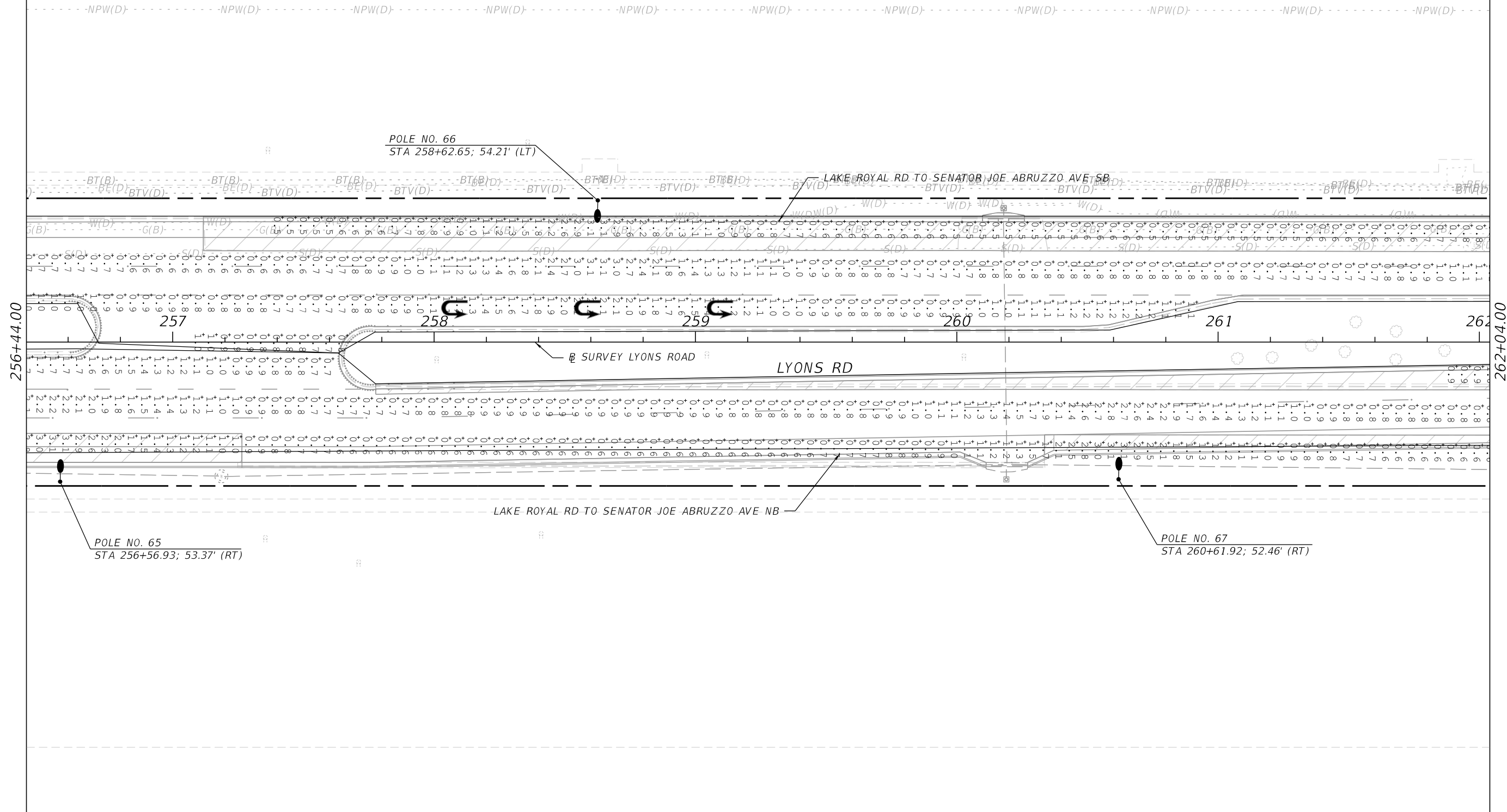
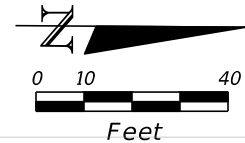
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L.W.D.D. L-30 CANAL TO BOYNTON BEACH BLVD.
LIGHTING ANALYSIS

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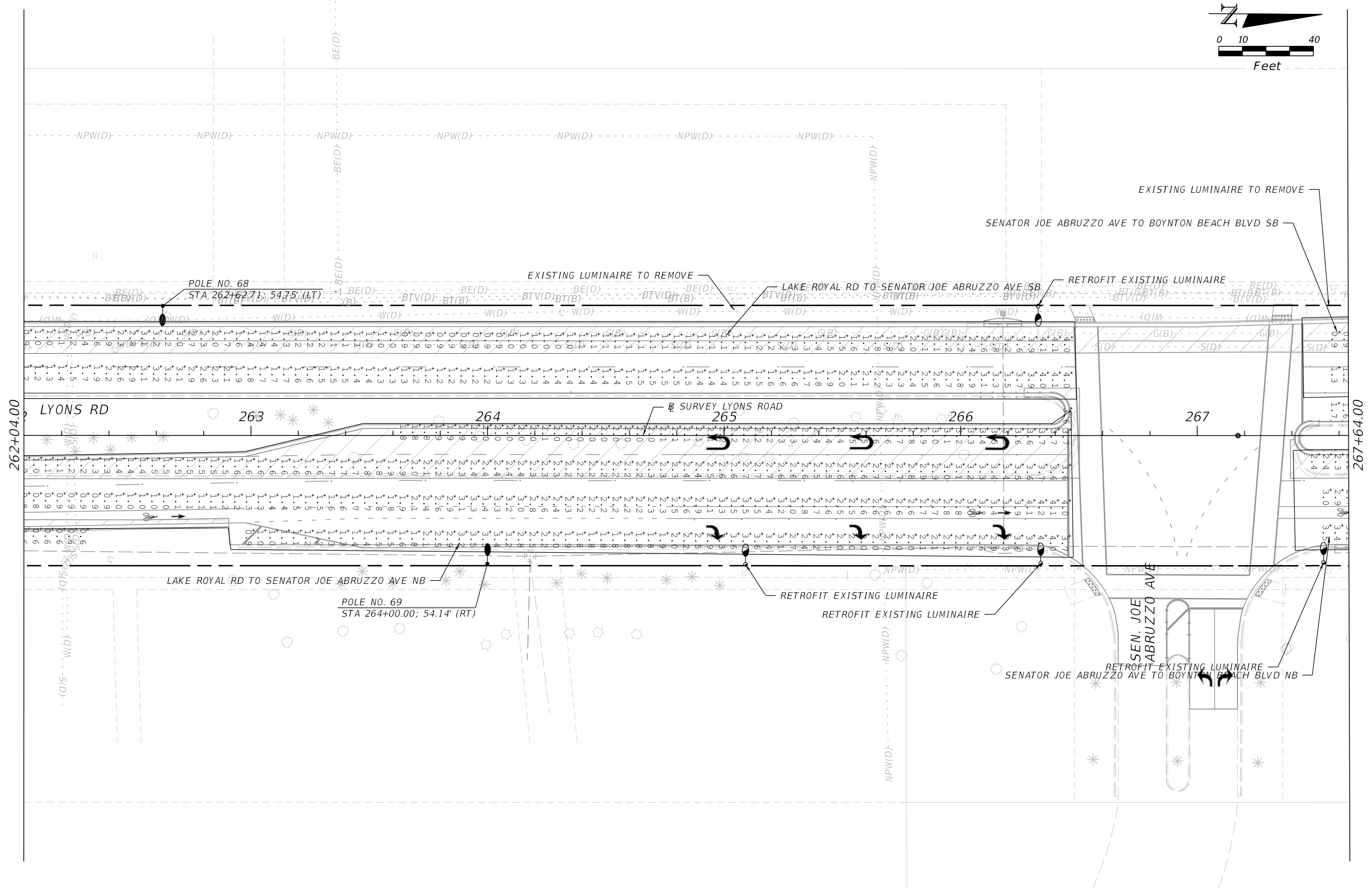
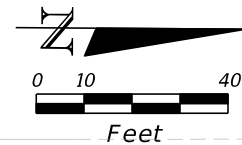
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LYONS ROAD
L.W.D.D. L-30 CANAL TO BOYNTON BEACH BLVD.
LIGHTING ANALYSIS

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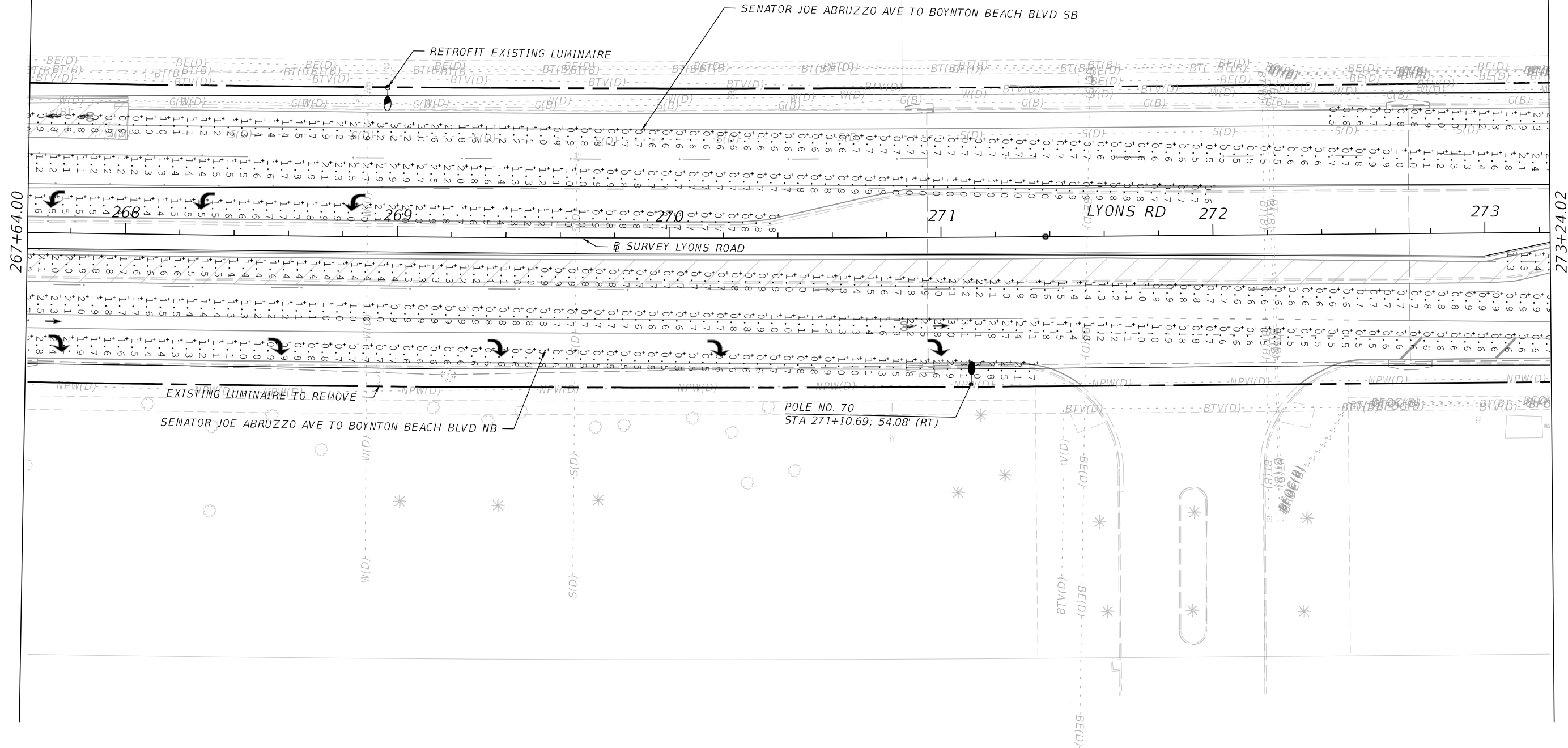
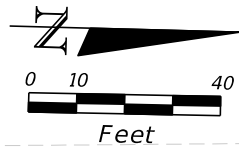
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L.W.D.D. L-30 CANAL TO BOYNTON BEACH BLVD.

LIGHTING ANALYSIS

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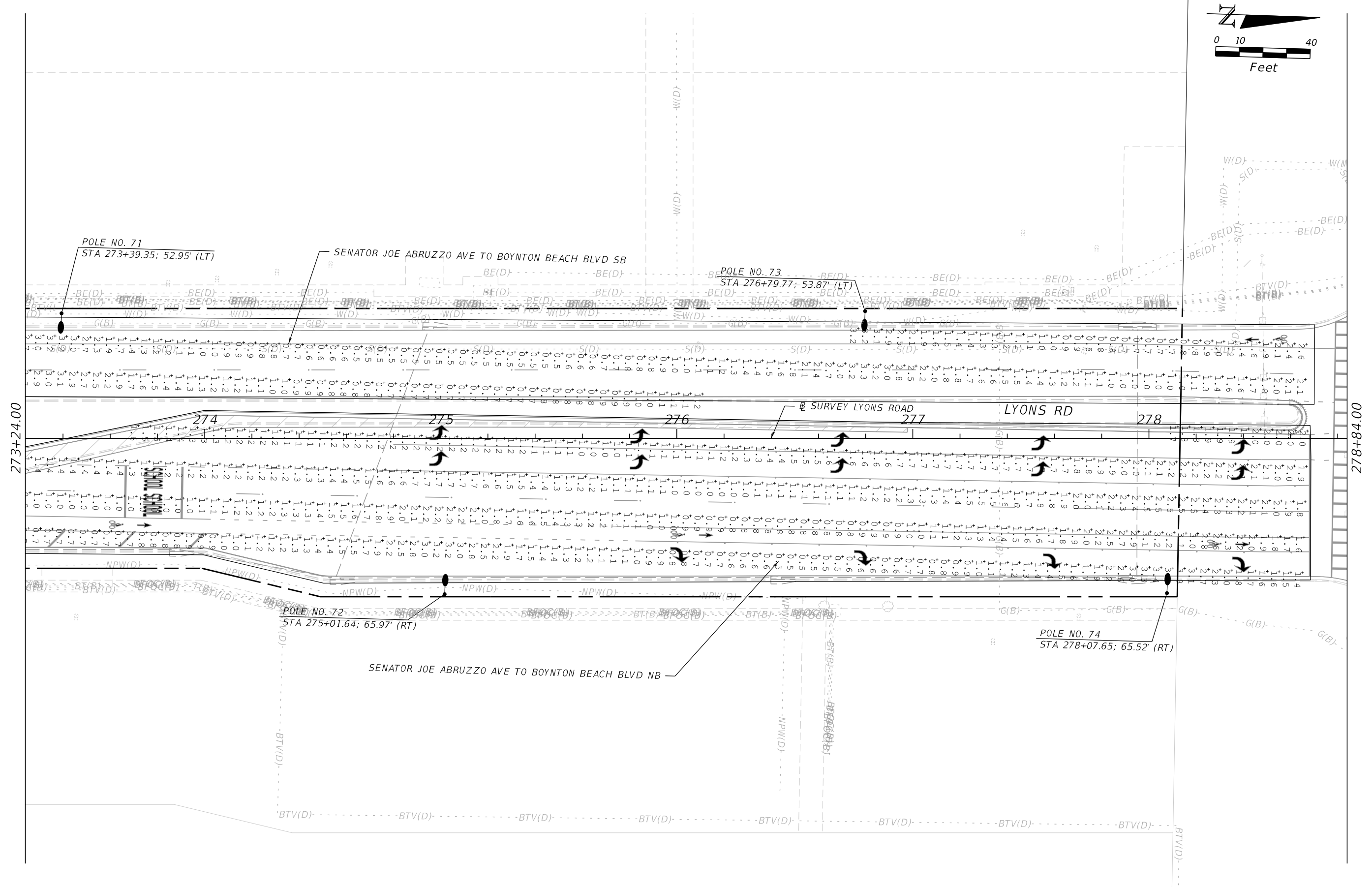
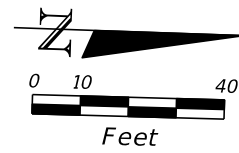


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LYONS ROAD
L.W.D.D. L-30 CANAL TO BOYNTON BEACH BLVD.
LIGHTING ANALYSIS

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LYONS ROAD
L.W.D.D. L-50 CANAL TO BOYNTON BEACH BLVD.
LIGHTING ANALYSIS

SHEET: 30
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DESIGN CRITERIA	
FDOT INTERSECTION RETROFIT	
AVERAGE INITIAL ILLUMINANCE (H.F.C)	1.5 STD/1.0 MIN FOOT CANDLES
AVERAGE INITIAL ILLUMINANCE (V.F.C)	1.5 STD/1.0 MIN FOOT CANDLES
UNIFORMITY RATIO AVG./MIN.	4:1 OR LESS
MAX./MIN.	10:1 OR LESS
DESIGN WIND SPEED	160 MPH
FDOT CORRIDOR LIGHTING	
AVERAGE INITIAL ILLUMINANCE (H.F.C)	1.0 - 1.5 FOOT CANDLES
AVERAGE INITIAL ILLUMINANCE (V.F.C)	N/A
UNIFORMITY RATIO AVG./MIN.	4:1 OR LESS
MAX./MIN.	10:1 OR LESS
DESIGN WIND SPEED	160 MPH
CORRELTED COLOR TEMPERATURE	
≤50 MPH	3000K

Luminaire Schedule								
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description	MOUNTING HEIGHT	ARM LENGTH
	74	ATB2_P604_R4_3K	Single	N.A.	1.000	NEW LUMINAIRE	38	8'
	5	ATB2_P604_R4_3K	Single	N.A.	1.000	RELAMP	EXIST	EXIST

Horizontal Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	
L30 TO GOLDEN CRES DR NB	Illuminance	Fc	1.19	3.1	0.33	3.61	9.39	
L30 TO GOLDEN CRES DR SB	Illuminance	Fc	1.09	2.8	0.30	3.63	9.33	
GOLDEN CRES DR TO BLUE MOUNTAIN WAY NB	Illuminance	Fc	1.01	3.2	0.40	2.53	8.00	
GOLDEN CRES DR TO BLUE MOUNTAIN WAY SB	Illuminance	Fc	1.21	3.2	0.40	3.03	8.00	
BLUE MOUNTAIN WAY TO LAKE ROYAL RD NB	Illuminance	Fc	1.13	4.0	0.40	2.83	10.00	
BLUE MOUNTAIN WAY TO LAKE ROYAL RD SB	Illuminance	Fc	1.14	3.5	0.40	2.85	8.75	
LAKE ROYAL RD TO SENATOR JOE ABRUZZO AVE NB	Illuminance	Fc	1.34	4.2	0.50	2.68	8.40	
LAKE ROYAL RD TO SENATOR JOE ABRUZZO AVE SB	Illuminance	Fc	1.16	4.1	0.50	2.32	8.20	
SENATOR JOE ABRUZZO AVE TO BOYNTON BEACH BLVD NB	Illuminance	Fc	1.36	3.5	0.50	2.72	7.00	
SENATOR JOE ABRUZZO AVE TO BOYNTON BEACH BLVD SB	Illuminance	Fc	1.25	3.3	0.50	2.50	6.60	