

CONTRACT PLANS COMPONENTS

ROADWAY PLANS (INCLUDES SIGNING AND PAVEMENT MARKING PLANS)
LIGHTING PLANS
LANDSCAPE PLANS

INDEX OF LIGHTING PLANS

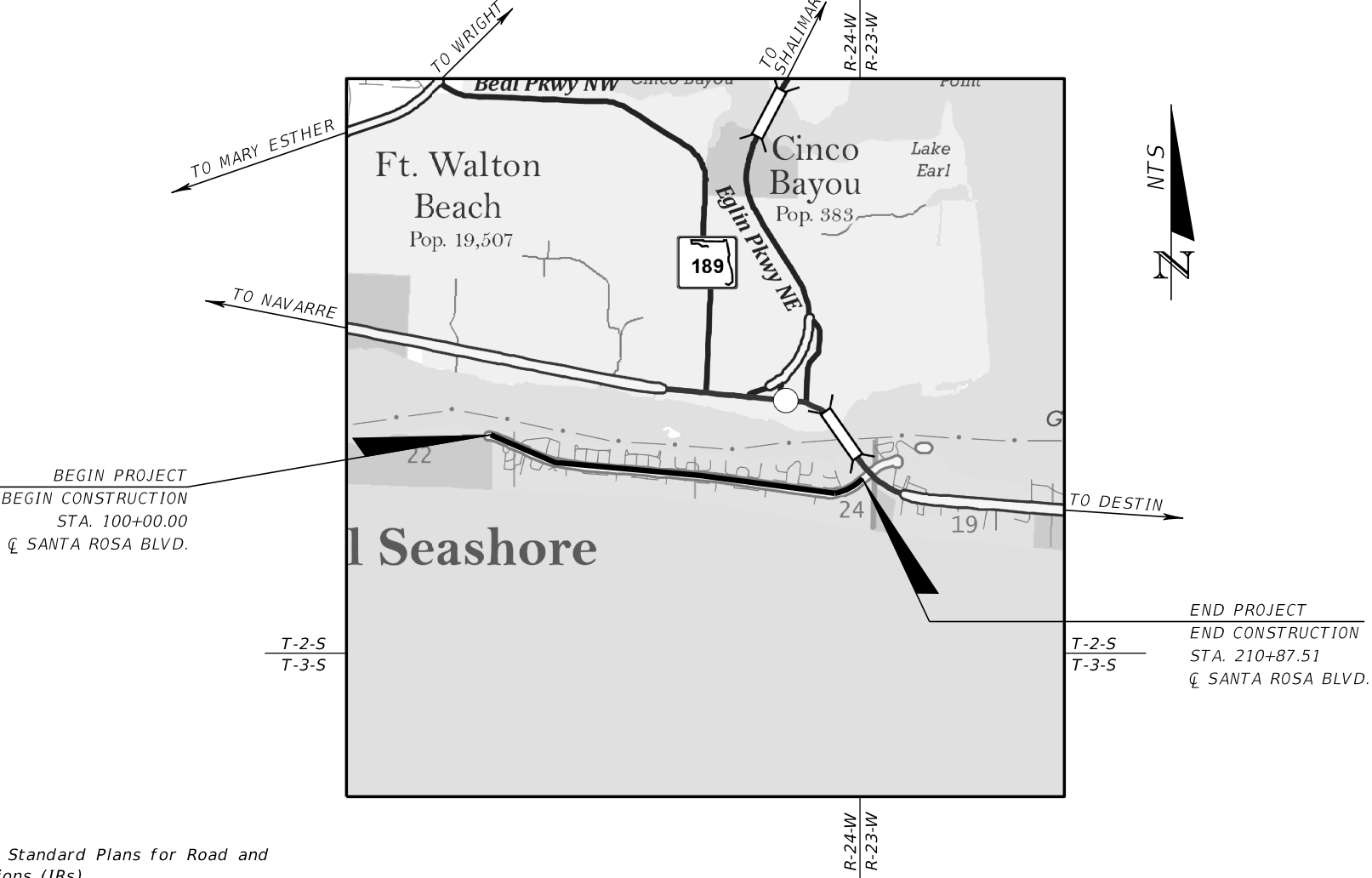
SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	GENERAL NOTES
3	ILLUMINANCE CALCULATIONS
4 - 15	LIGHTING PLAN



OKALOOSA COUNTY
PUBLIC WORKS

CONTRACT PLANS

SANTA ROSA BOULEVARD ROADWAY IMPROVEMENTS
FROM EAST OF EGLIN AIR FORCE BASE
TO WEST OF SR 30 (US 98/MIRACLE STRIP PARKWAY SE)



GOVERNING STANDARD PLANS:

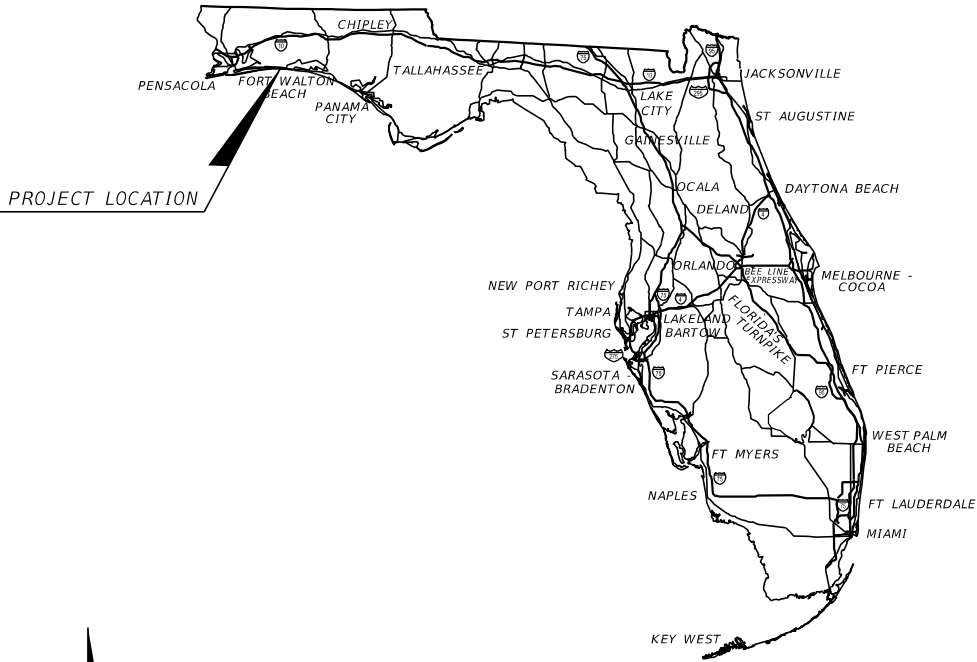
Florida Department of Transportation, FY2023-24 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (2018 Edition)

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, 2023-24 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>



LIGHTING PLANS
ENGINEER OF RECORD:

halff
BRYAN PAUL HUBBARD, P.E. 70962
HALFF ASSOCIATES, INC.
2255 KILLEARN CENTER BLVD., SUITE 200
TALLAHASSEE, FLORIDA 32309
CERTIFICATE OF AUTHORIZATION 33380

COUNTY PROJECT MANAGER:

CARISSE LEJEUNE, SURTAX PROJECT MANAGER
OKALOOSA COUNTY PUBLIC WORKS
1759 S. FERDON BLVD.
CRESTVIEW, FL 32536

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
		1

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GENERAL NOTES

1.

THIS PROJECT IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NAD83), 1999 ADJUSTMENT.
2.

ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEY OR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:
THOMAS K. MEAD, P.S.M.
P.S.M. NUMBER 5624
SOUTHEASTERN SURVEYING AND MAPPING CORPORATION 1J30 HIGHWAY 90
CHIPLEY, FLORIDA 32428
CERTIFICATION NUMBER LB2108
3.

THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS LISTED BELOW THROUGH FLORIDA SUNSHINE 811 (1-800-432-4770 OR 811) 2 BUSINESS DAYS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY.
4.

UTILITY/AGENCY OWNERS FOR THIS PROJECT INCLUDE:

COMPANY	CONTACT	TELEPHONE NO.
AT&T / COMMUNICATIONS/FIBER	KEVIN TALECKI/MIKE GAMBOA	(610) 200-3365
AT&T / DISTRIBUTION	DINO FARRUGGIO	(800) 247-2020
EGLIN COMM (96 TW/SC)	TBD	(XXX) XXX-XXXX
CENTURYLINK	BILL MCCLLOUD	(850) 599-1444
COX COMMUNICATION INC.	TODD ARDOIN	(337) 281-9889
CITY OF FORT WALTON BEACH	DEBORAH FOUSEK	(850) 833-9613
FLORIDA POWER & LIGHT- FT WALTON EAST	USIC DISPATCH CENTER	(800) 778-9140
OKALOOSA COUNTY TRAFFIC SIGNALS	JONATHAN WARD	(XXX) XXX-XXXX
OKALOOSA COUNTY INFORMATION TECHNOLOGY	EDDIE QUINLAN	(XXX) XXX-XXXX
OKALOOSA GAS DISTRICT	MITCH ANDERSON	(850) 428-1295
OKALOOSA COUNTY WATER AND SEWER	JON KONAK	(XXX) XXX-XXXX
UNITI FIBER LLC	CHARLIE CROFT	(251) 214-7059
5.

ANY PUBLIC LAND SURVEY SYSTEM CORNER OR ANY MONUMENT THAT PERPETUATES THE R/W LIMITS WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED BY THE CONTRACTOR. IF A MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE PROJECT ADMINISTRATOR SHOULD NOTIFY OKALOOSA COUNTY, WITHOUT DELAY, BY TELEPHONE.
6.

IF A MONITORING WELL IS ENCOUNTERED WITHIN OR ADJACENT TO THE PROJECT CORRIDOR, AND IS NOT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY OKALOOSA COUNTY. ALL PROJECTS REQUIRING WELL-POINTING OR OTHER PUMPING OF GROUNDWATER OR SURFACE WATER WILL NEED TO BE COORDINATED WITH THE COUNTY IN ORDER ENSURE TO ALL ASPECTS OF THE PERMIT REQUIREMENTS ARE FULFILLED. AN ADDITIONAL PERMIT MAY BE NEEDED DEPENDENT UPON THE CONTRACTOR'S APPROACH TO CERTAIN ASPECTS OF THE PROJECT.
7.

CONSTRUCTION DEBRIS GENERATED BY THE CONTRACTOR DURING CONSTRUCTION OF THE PROJECT IS TO BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN APPROVED DISPOSAL SITES FURNISHED BY THE CONTRACTOR.
8.

THE CONTRACTOR SHALL PROPOSE STORAGE AREAS TO BE DISCUSSED AND AGREED UPON DURING THE PRECONSTRUCTION MEETING.
9.

NOTIFY THE POWER COMPANY AT LEAST 48 HOURS PRIOR TO ANY INSTALLATION THAT IS WITHIN 10 FEET OF ENERGIZED ELECTRICAL CONDUCTORS. AT ITS OPTION, THE POWER COMPANY SHALL ASSIST THE CONTRACTOR, COVER UP ENERGIZED CONDUCTORS AT INSTALLATION SITE, OR TAKE OTHER SAFETY PRECAUTIONS AS NECESSARY. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS. PERFORM WORK IN ACCORDANCE WITH OSHA STANDARDS.
10.

PER FDOT SPECIFICATION 8-6.4, SUSPENSION OF CONTRACTOR'S OPERATIONS - HOLIDAYS AND SPECIAL EVENTS, SPECIAL EVENTS FOR THIS PROJECT INCLUDE:

BILLY BOWLEGS PIRATE FESTIVAL	JUNE
THUNDERBIRD INTERTRIBAL POWWOW	NOVEMBER
NORTHWEST FLORIDA FAIR	OCTOBER
DESTIN SEAFOOD FESTIVAL	FIRST SATURDAY IN OCTOBER
MARDI GRAS ON THE ISLAND	FEBRUARY
FORT WALTON BEACH GREEK FESTIVAL	SEPTEMBER
DESTIN SEAFOOD FESTIVAL	SEPTEMBER
DESTIN SEAFOOD FESTIVAL	OCTOBER

PAY ITEM NOTES

- 0635-2-11

PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE - CONCRETE APRON PER FDOT SPECIFICATIONS WILL NOT BE REQUIRED. SUBSTITUTION FOR 12" x 12" PULL BOX WILL BE ALLOWED. EXISTING CONCRETE THAT IS DAMAGED DURING INSTALLATION WILL BE REPAIRED AND PAID FOR SUBSIDIARY TO THIS PAY ITEM.
- 715-61-211

INSTALL HOUSE SIDE SHIELDS (HSS) AS INDICATED IN THE PLANS. COST FOR FURNISH AND INSTALLATION OF HSS SHALL BE SUBSIDIARY TO THIS PAY ITEM.

LEGEND

- 2" DIRECT BURIED CONDUIT.
630-2-11
- 2" DIRECTIONAL BORED CONDUIT.
630-2-12
- PROPOSED LOAD CENTER
715-7-11
- PROPOSED LOACTION OF 12" x 12" PULL BOX.
635-2-11
- PROPOSED 263 WATT, 26782 LUMENS, LIGHT EMITTING DIODE (LED) LUMINAIRE INSTALLED ON A PROPOSED 35 FOOT MOUNTING HEIGHT ABOVE GROUND POLE MOUNTED WITH AN 8 FOOT ARM. DESIGNED FOR R4 TYPE III LIGHT DISTRIBUTION. INTEGRAL LED DRIVER WIRED FOR 480 VOLT OPERATION. USE AUTOBAHN LED ROADWAY WITH PHOTOMETRIC FILE ATB2_P604_R4_3K_HSS OR APPROVED EQUAL. SYMBOL INCLUDES BRACKET ARMS, POLE, T-BASE, AND LUMINAIRES.
715-61-211
- PROPOSED 113 WATT, 12922 LUMENS, LIGHT EMITTING DIODE (LED) LUMINAIRE INSTALLED ON A PROPOSED 30 FOOT MOUNTING HEIGHT ABOVE GROUND POLE MOUNTED WITH A 4 FOOT ARM. DESIGNED FOR SL2 TYPE II LIGHT DISTRIBUTION, WITH SPILL CONTROL. INTEGRAL LED DRIVER WIRED FOR 480 VOLT OPERATION. USE COOPER STREETWORKS NAVION WITH PHOTOMETRIC FILE NVN-SA2C-730-U-SL2-HSS OR APPROVED EQUAL. SYMBOL INCLUDES BRACKET ARMS, POLE, T-BASE, AND LUMINAIRES.
715-61-111

NOTES TO REVIEWERS

1.

EXISTING UTILITIES IDENTIFIED IN THE PLANS WERE ESTIMATED FROM DATA PROVIDED BY THE SURVEYOR AND SHOULD BE CONSIDERED APPROXIMATE.
2.

PHOTOMETRIC ANALYSIS HAS BEEN PERFORMED TO DETERMINE THE NUMBER AND LOCATION OF LIGHT POLES. A PHOTOMETRIC REPORT WILL BE INCLUDED FOR THE 90% SUBMITTAL. CALCULATIONS SHOWN ARE PRELIMINARY AND FOR REFERENCE PURPOSES ONLY.
3.

LIGHT POLE NUMBERING AND CIRCUIT NUMBERING ARE PRELIMINARY AND ARE SUBJECT TO CHANGE UNTIL THE 90% SUBMITTAL. FURTHER POWER ANALYSIS MAY CHANGE THE LOCATION OF LOAD CENTERS AND CONDUCTOR SIZING.

REVISIONS				 BRYAN PAUL HUBBARD, P.E. LICENSE NUMBER: 70962 HALFF ASSOCIATES, INC. TALLAHASSEE, FLORIDA 32309		OKALOOSA COUNTY		GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			PROJECT			2
						SANTA ROSA BOULEVARD			

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CALCULATIONS

EB_Roundabout_103+10 - 105+50
Illuminance (Fc): Average=2.61 Avg/Min=2.01 Max/Min=3.31

EB_Roundabout_106+40 - 109+25
Illuminance (Fc): Average=2.23 Avg/Min=2.23 Max/Min=4.00

MB_Crosswalk_EB_111+20
Illuminance (Fc): Average=1.56 Avg/Min=1.04 Max/Min=1.07

MB_Crosswalk_EB_124+20
Illuminance (Fc): Average=1.5 Avg/Min=1.07 Max/Min=1.14

MB_Crosswalk_EB_138+90
Illuminance (Fc): Average=1.64 Avg/Min=1.17 Max/Min=1.21

MB_Crosswalk_EB_149+85
Illuminance (Fc): Average=1.47 Avg/Min=1.13 Max/Min=1.15

MB_Crosswalk_EB_153+45
Illuminance (Fc): Average=1.57 Avg/Min=1.12 Max/Min=1.14

MB_Crosswalk_EB_167+80
Illuminance (Fc): Average=1.56 Avg/Min=1.11 Max/Min=1.14

MB_Crosswalk_EB_182+30
Illuminance (Fc): Average=1.58 Avg/Min=1.05 Max/Min=1.13

MB_Crosswalk_EB_196+95
Illuminance (Fc): Average=2.22 Avg/Min=1.17 Max/Min=1.26

MB_Crosswalk_EB_206+10
Illuminance (Fc): Average=1.71 Avg/Min=1.14 Max/Min=1.40

MB_Crosswalk_WB_111+20
Illuminance (Fc): Average=1.44 Avg/Min=1.11 Max/Min=1.15

MB_Crosswalk_WB_124+20
Illuminance (Fc): Average=1.43 Avg/Min=1.10 Max/Min=1.15

MB_Crosswalk_WB_138+90
Illuminance (Fc): Average=1.66 Avg/Min=1.04 Max/Min=1.06

MB_Crosswalk_WB_149+85
Illuminance (Fc): Average=1.45 Avg/Min=1.12 Max/Min=1.15

MB_Crosswalk_WB_153+45
Illuminance (Fc): Average=1.49 Avg/Min=1.06 Max/Min=1.14

MB_Crosswalk_WB_167+80
Illuminance (Fc): Average=1.54 Avg/Min=1.10 Max/Min=1.14

MB_Crosswalk_WB_182+30
Illuminance (Fc): Average=1.45 Avg/Min=1.12 Max/Min=1.23

MB_Crosswalk_WB_196+95
Illuminance (Fc): Average=2.10 Avg/Min=1.11 Max/Min=1.21

MB_Crosswalk_WB_206+10
Illuminance (Fc): Average=1.67 Avg/Min=1.39 Max/Min=1.58

NB_Roundabout
Illuminance (Fc): Average=1.80 Avg/Min=1.64 Max/Min=2.64

Roadway_EB_109+25 - 112+30
Illuminance (Fc): Average=1.39 Avg/Min=1.74 Max/Min=5.38

Roadway_EB_125+25 - 138+85
Illuminance (Fc): Average=1.19 Avg/Min=1.49 Max/Min=4.38

Roadway_EB_139+00 - 148+80
Illuminance (Fc): Average=1.07 Avg/Min=1.34 Max/Min=2.50

Roadway_EB_148+95 - 154+40
Illuminance (Fc): Average=1.61 Avg/Min=1.79 Max/Min=3.89

Roadway_EB_154+50 - 168+65
Illuminance (Fc): Average=1.28 Avg/Min=1.60 Max/Min=4.88

Roadway_EB_168+80 - 183+25
Illuminance (Fc): Average=1.25 Avg/Min=1.79 Max/Min=6.00

Roadway_EB_183+35 - 196+90
Illuminance (Fc): Average=1.24 Avg/Min=1.38 Max/Min=3.22

Roadway_EB_197+10 - 210+85
Illuminance (Fc): Average=1.19 Avg/Min=2.38 Max/Min=5.40

Roadway_WB_109+25 - 112+30
Illuminance (Fc): Average=2.34 Avg/Min=1.67 Max/Min=2.71

Roadway_WB_112+40 - 125+10
Illuminance (Fc): Average=1.54 Avg/Min=1.54 Max/Min=3.60

Roadway_WB_125+25 - 138+95
Illuminance (Fc): Average=1.47 Avg/Min=1.47 Max/Min=3.00

Roadway_WB_139+00 - 148+80
Illuminance (Fc): Average=1.38 Avg/Min=1.38 Max/Min=2.00

Roadway_WB_148+95 - 154+40
Illuminance (Fc): Average=1.77 Avg/Min=1.61 Max/Min=2.45

Roadway_WB_154+50 - 168+65
Illuminance (Fc): Average=1.58 Avg/Min=1.58 Max/Min=3.50

Roadway_WB_168+80 - 183+25
Illuminance (Fc): Average=1.55 Avg/Min=1.55 Max/Min=3.70

Roadway_WB_183+35 - 196+90
Illuminance (Fc): Average=1.60 Avg/Min=1.45 Max/Min=2.64

Roadway_WB_197+10 - 210+85
Illuminance (Fc): Average=1.26 Avg/Min=2.10 Max/Min=5.50

Roundabout Circle
Illuminance (Fc): Average=4.08 Avg/Min=1.94 Max/Min=2.86

Roundabout_EB_Crosswalk_Exit
Illuminance (Fc): Average=2.68 Avg/Min=1.03 Max/Min=1.04

Roundabout_WB_Crosswalk_Enter
Illuminance (Fc): Average=2.52 Avg/Min=1.48 Max/Min=1.76

SB_Roundabout
Illuminance (Fc): Average=1.84 Avg/Min=1.67 Max/Min=3.27

Shared Use Path_N
Illuminance (Fc): Average=1.47 Avg/Min=3.68 Max/Min=10.00

Shared Use Path_S
Illuminance (Fc): Average=1.23 Avg/Min=3.08 Max/Min=8.50

WB_Roundabout_103+10 - 105+30
Illuminance (Fc): Average=2.72 Avg/Min=1.81 Max/Min=3.60

WB_Roundabout_106+30 - 109+25
Illuminance (Fc): Average=2.73 Avg/Min=1.82 Max/Min=3.00

LIGHTING DESIGN CRITERIA					
Roadway Classification	Illumination Level Average Foot Candle		Illumination Uniformity Rations		Veiling Luminance Ratio
Or Project Type	Horizontal (H.F.C)	Vertical (V.F.C)	Avg./Min.	Max./Min.	L _{V(MAX)} /L _{AVG}
Conventional Lighting					
Other Roadways	1.0	N/A	4:1 or Less	10:1 or Less	0.3:1 or Less
Signalized Intersection and Roundabout Lighting					
New or Reconstruction	3.0 Std. 1.5 Min.	1.5 Std. 1.2 Min.	4:1 or Less	10:1 or Less	N/A
Sidewalks and Shared Use Paths					
Facilities Separated from the Roadway¹	2.5	N/A	4:1 or Less	10:1 or Less	N/A
Midblock Crosswalk Lighting					
Low Ambient Luminance	N/A	1.5	N/A	N/A	N/A
Medium & High Ambient Luminance		2.3			

Notes:
1. When sidewalk or shared us path lighting affects an adjacent roadway, then the sidewalk or shared use path illumination requirements are reduced to match those of the adjacent roadway.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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HALFF ASSOCIATES, INC.
TALLAHASSEE, FLORIDA 32309



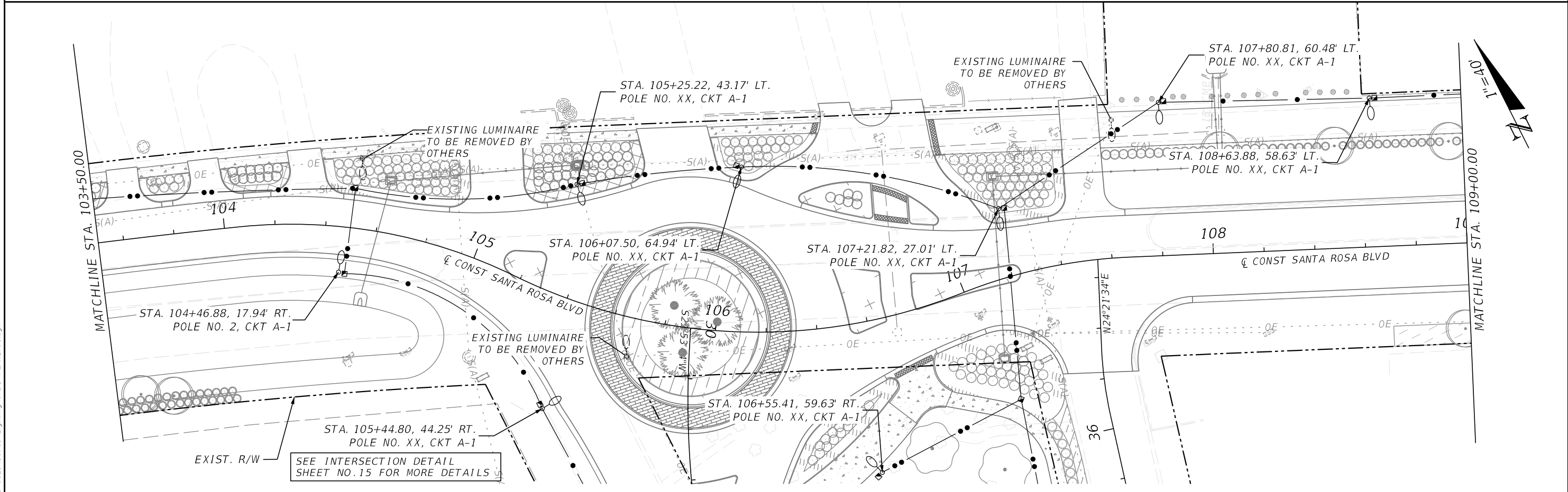
OKALOOSA COUNTY
PROJECT
SANTA ROSA BOULEVARD

ILLUMINANCE CALCULATIONS

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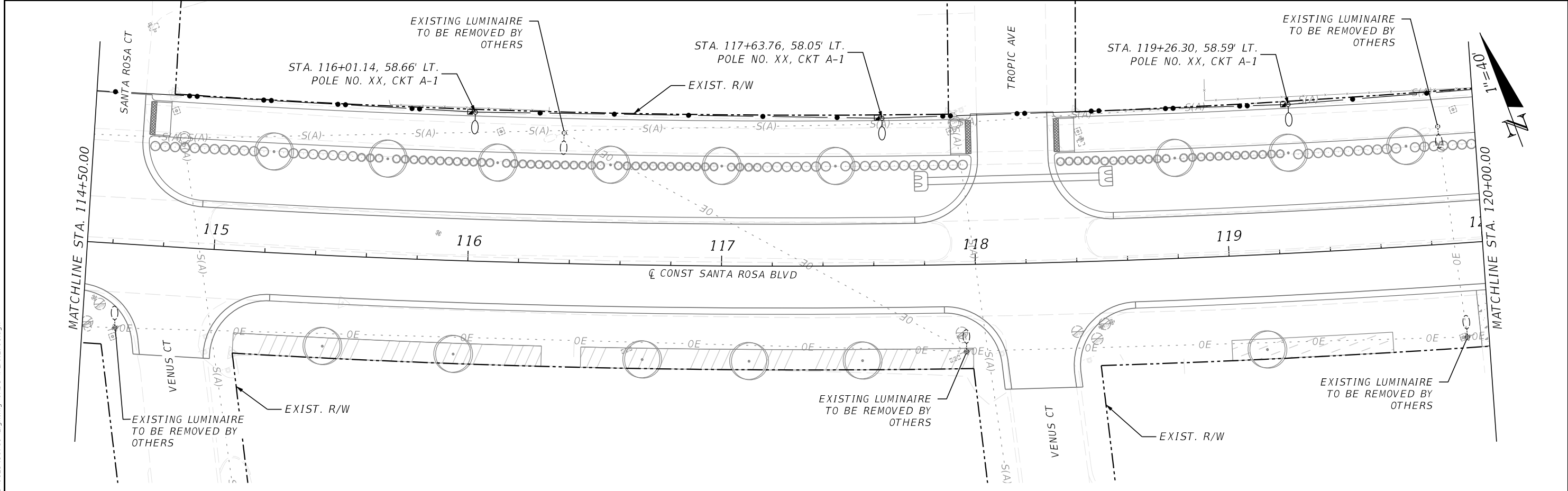
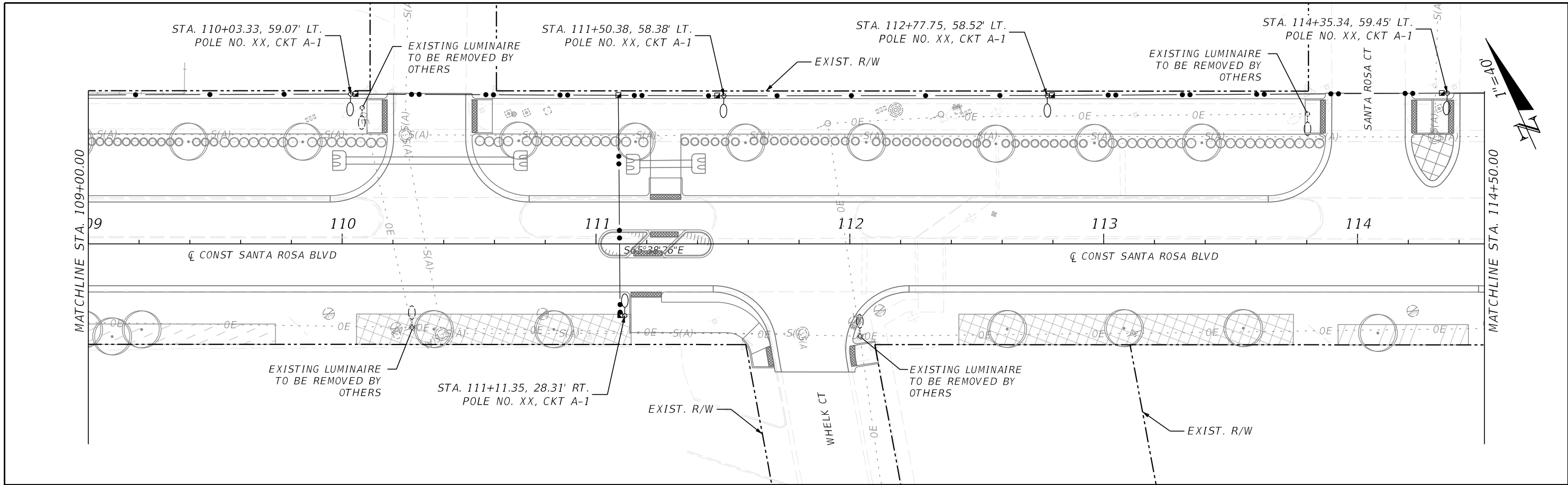
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LIGHTING PLAN	
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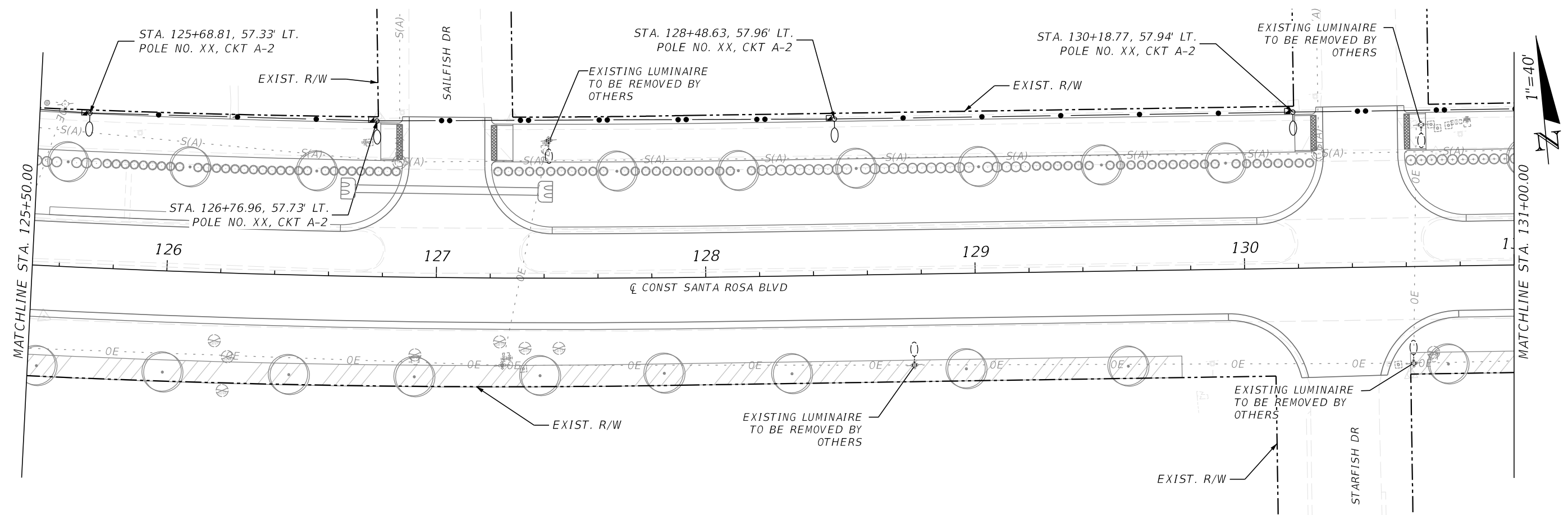
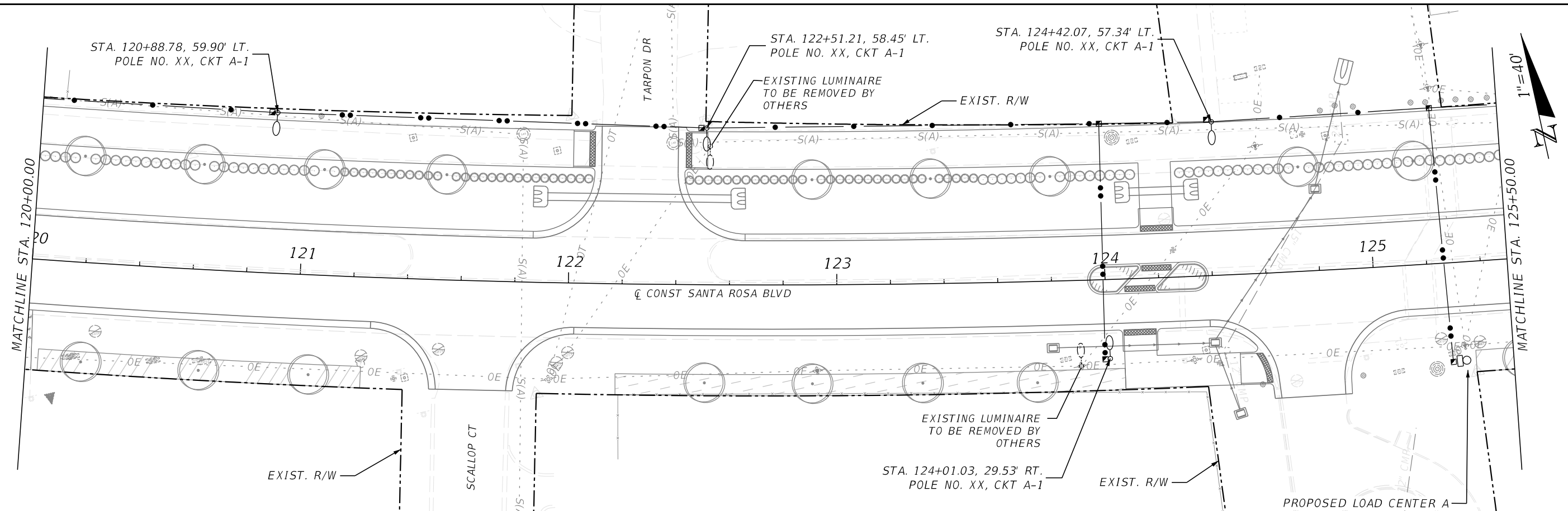
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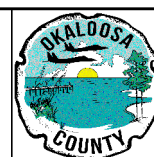
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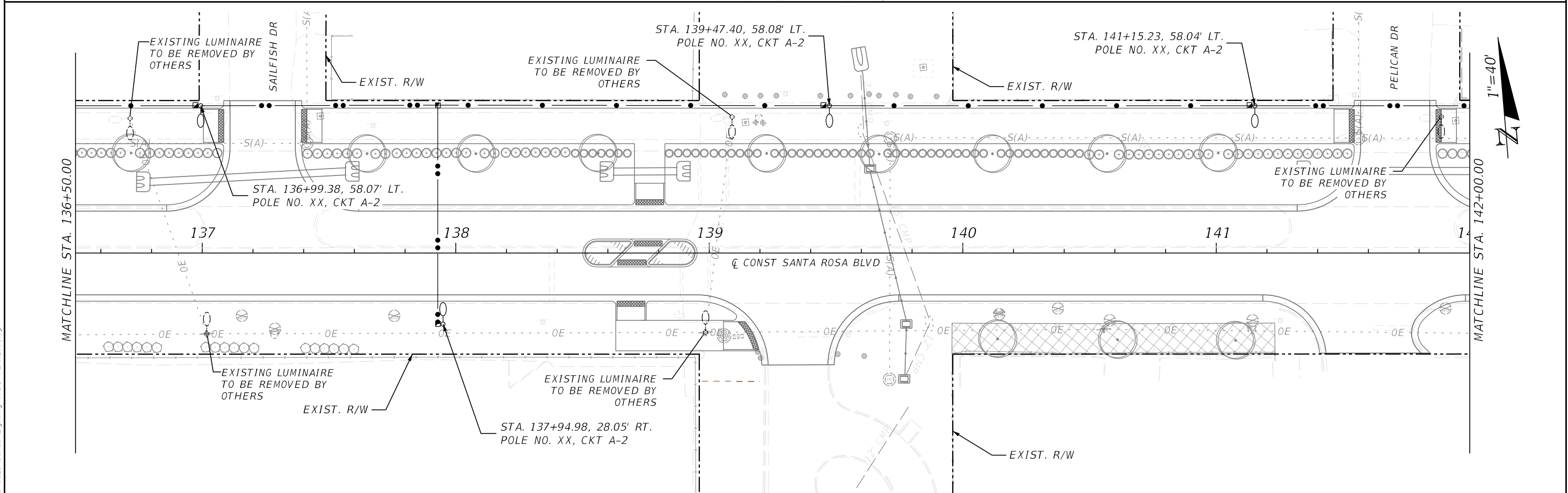
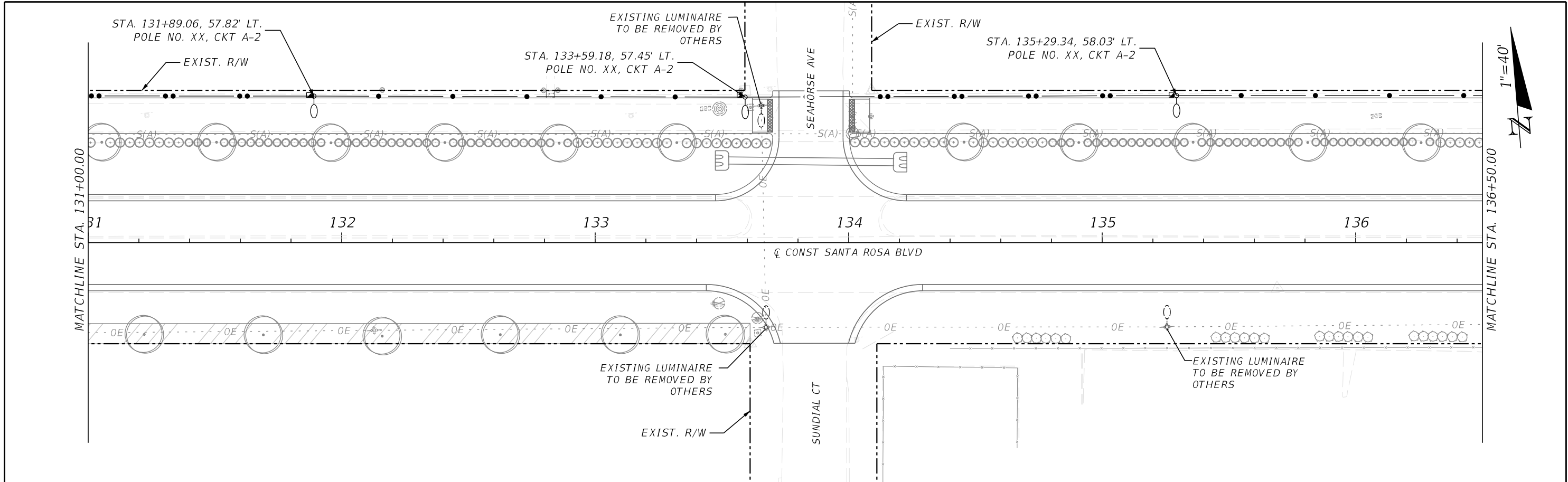
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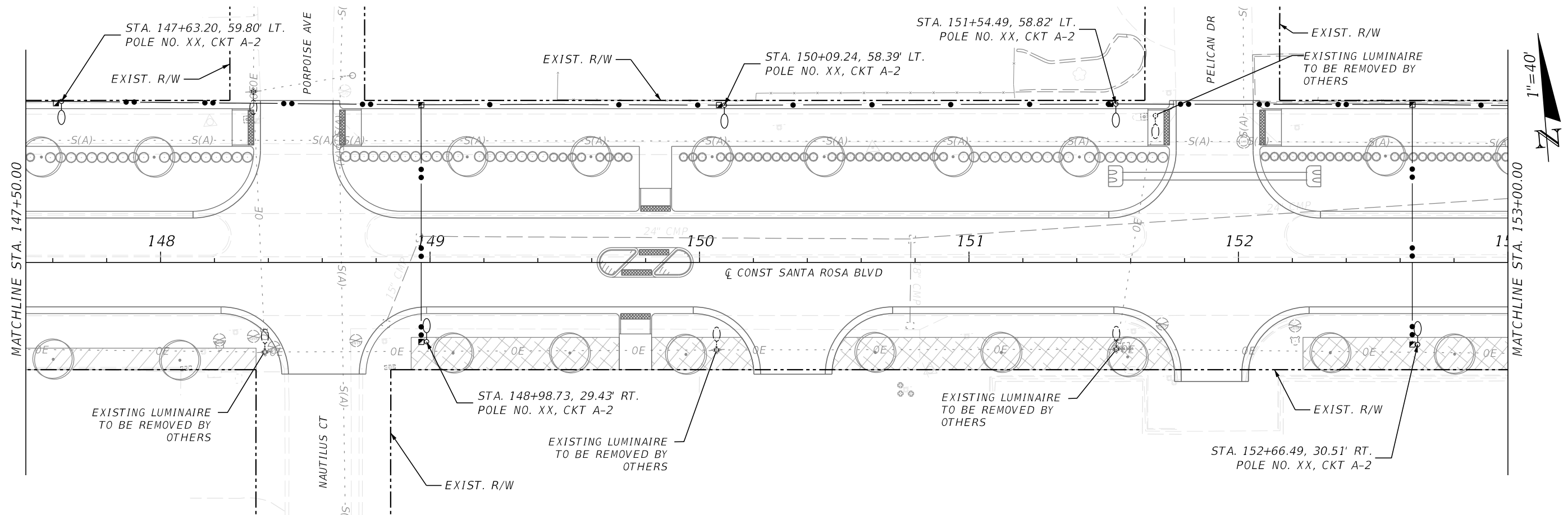
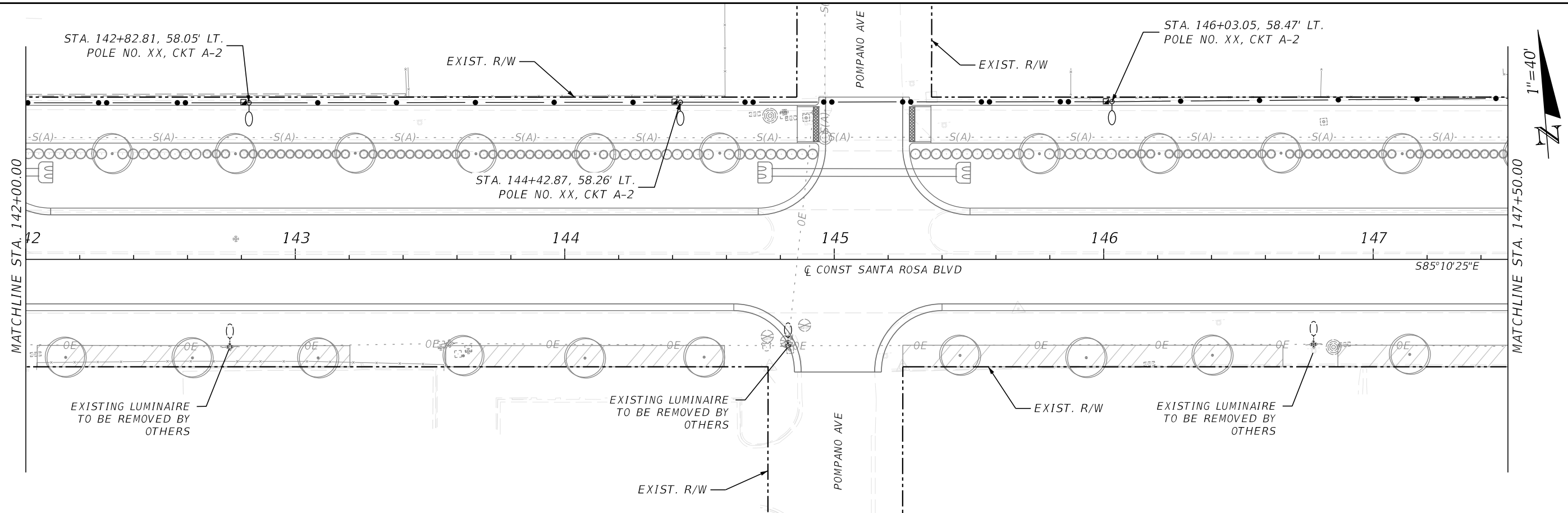
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							SANTA ROSA BOULEVARD			

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OKALOOSA COUNTY

PROJECT

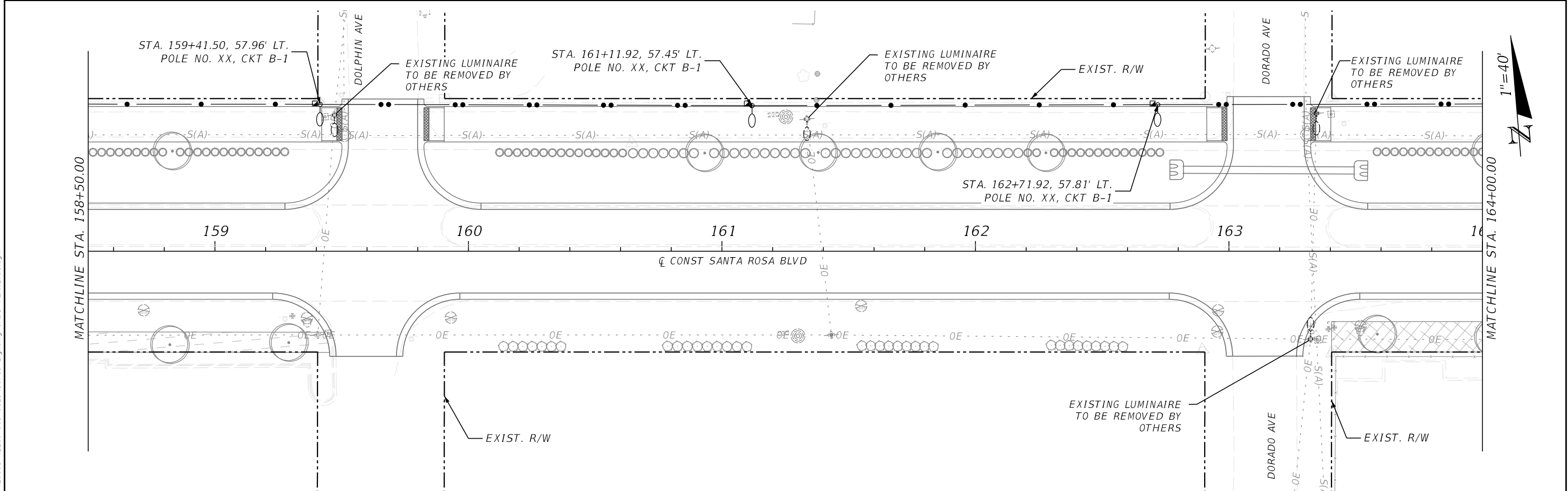
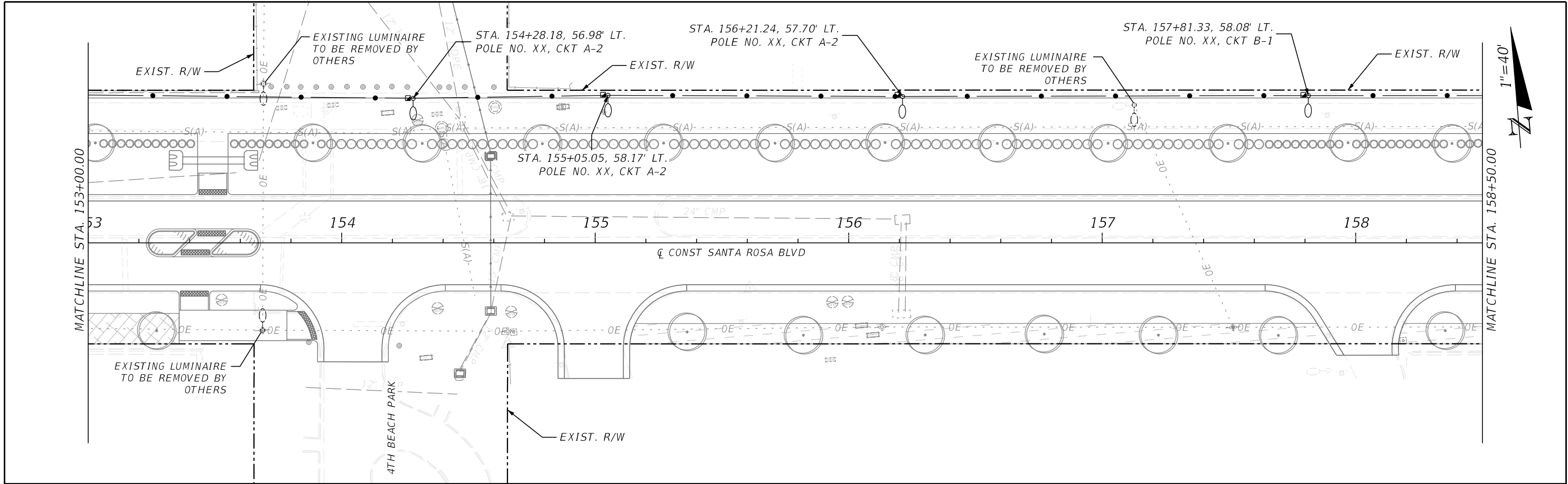
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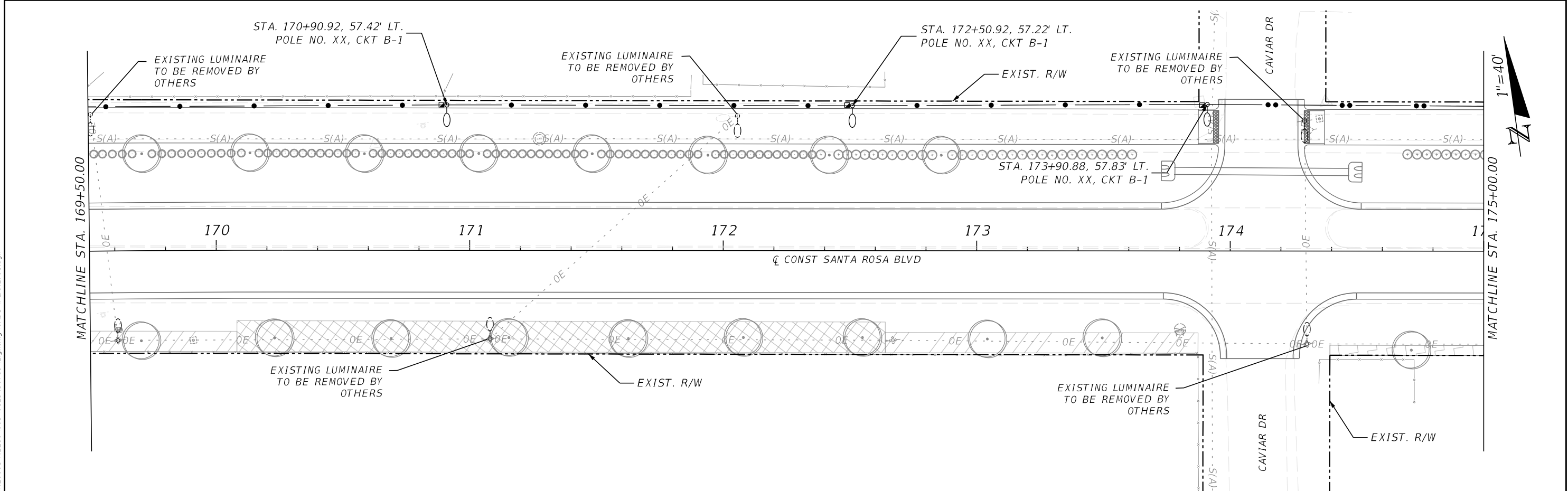
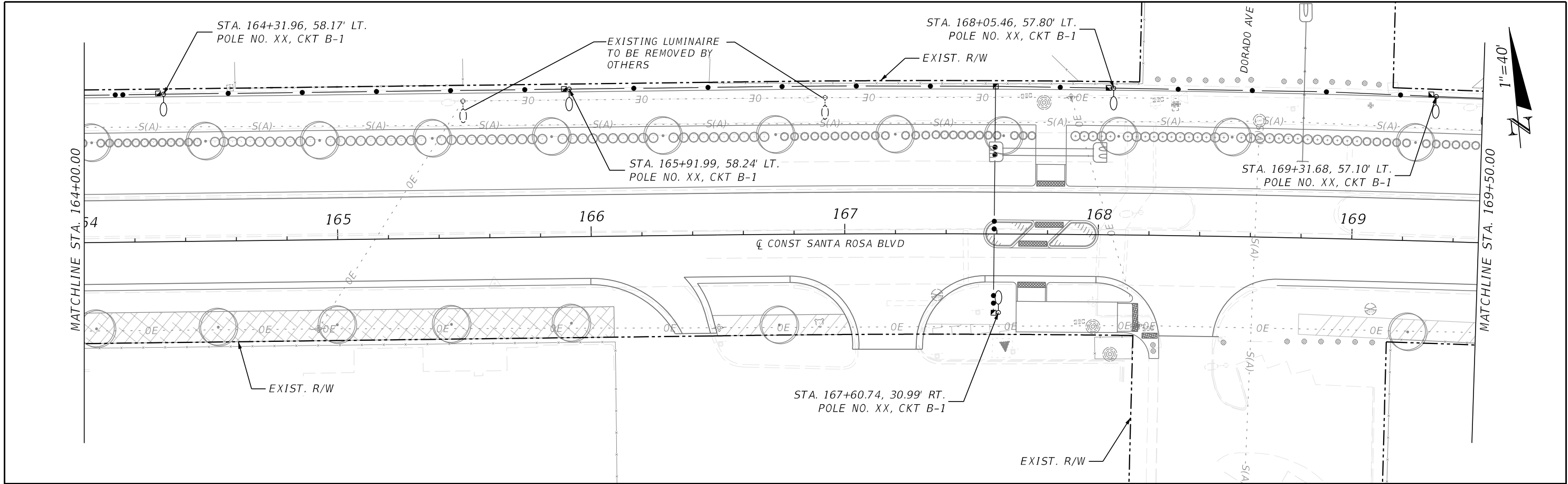
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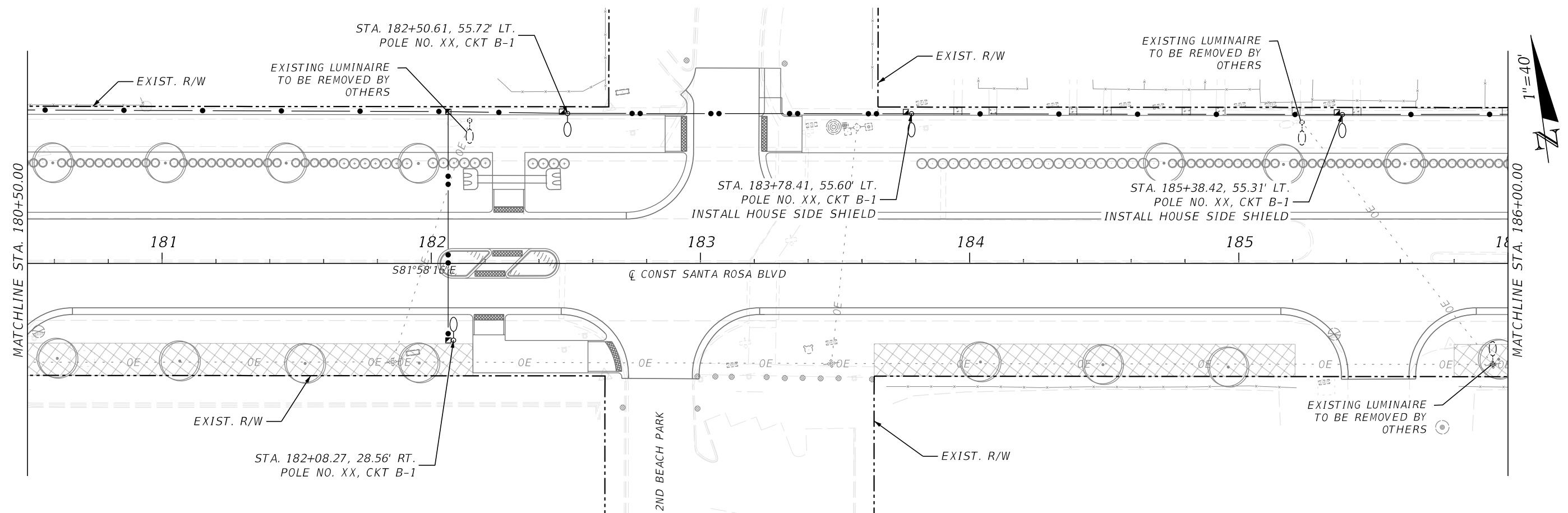
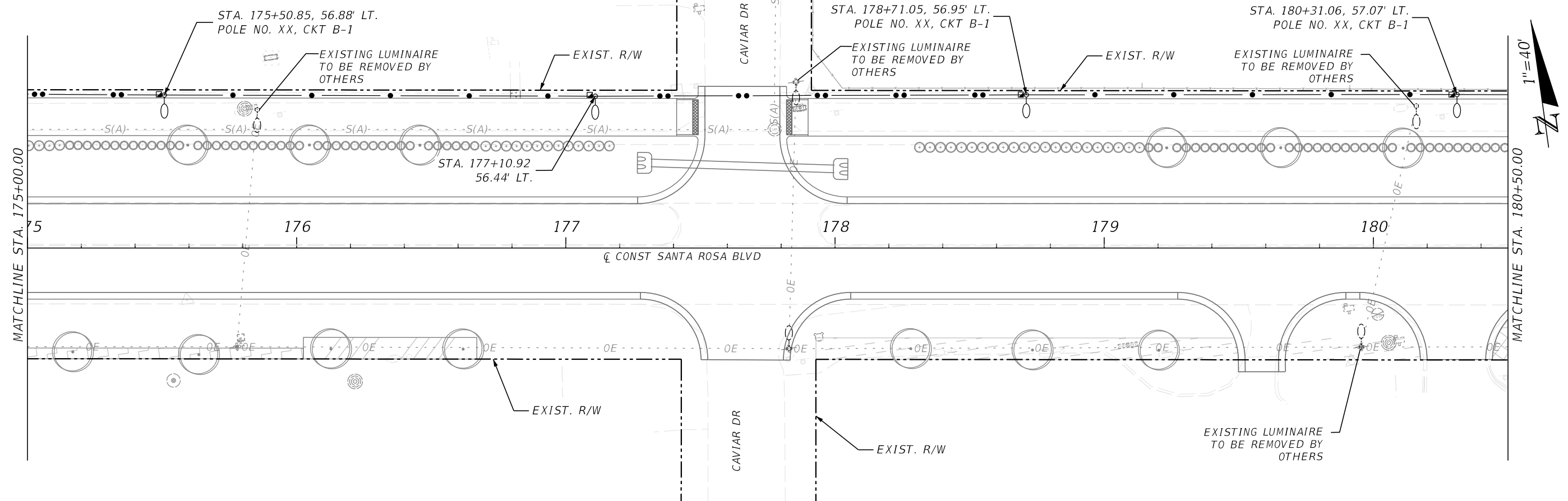


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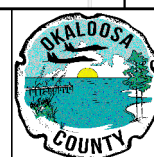
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 HALFF ASSOCIATES, INC.
 TALLAHASSEE, FLORIDA 32309



OKALOOSA COUNTY

PROJECT

SANTA ROSA BOULEVARD

LIGHTING PLAN

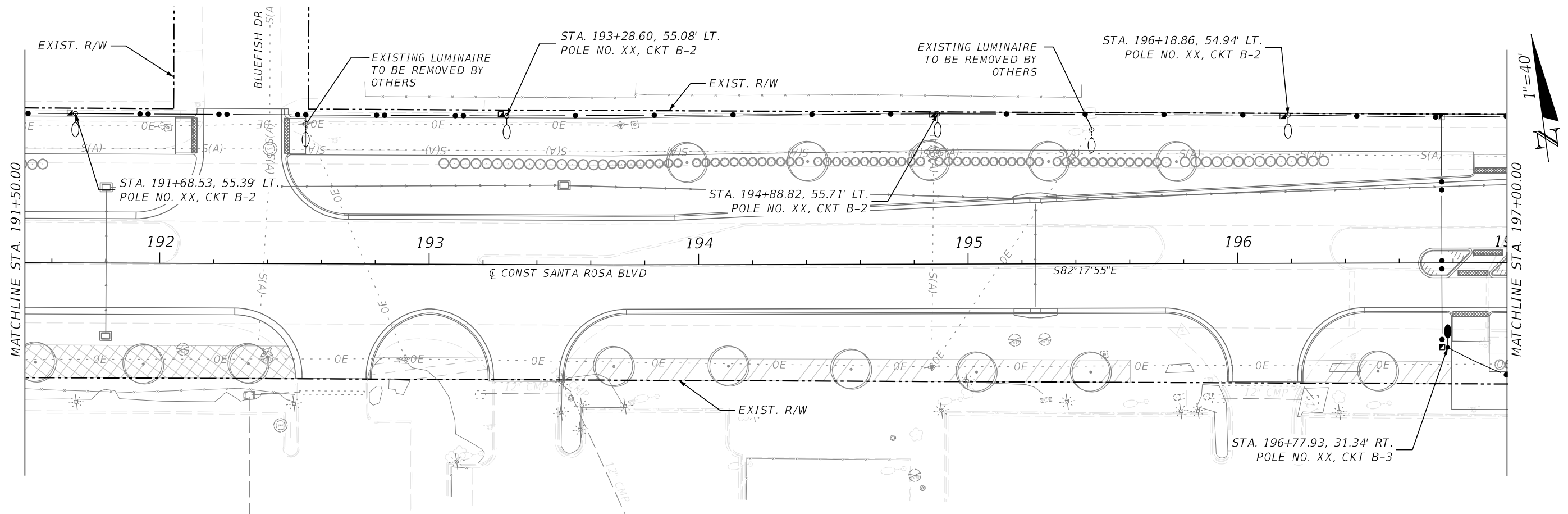
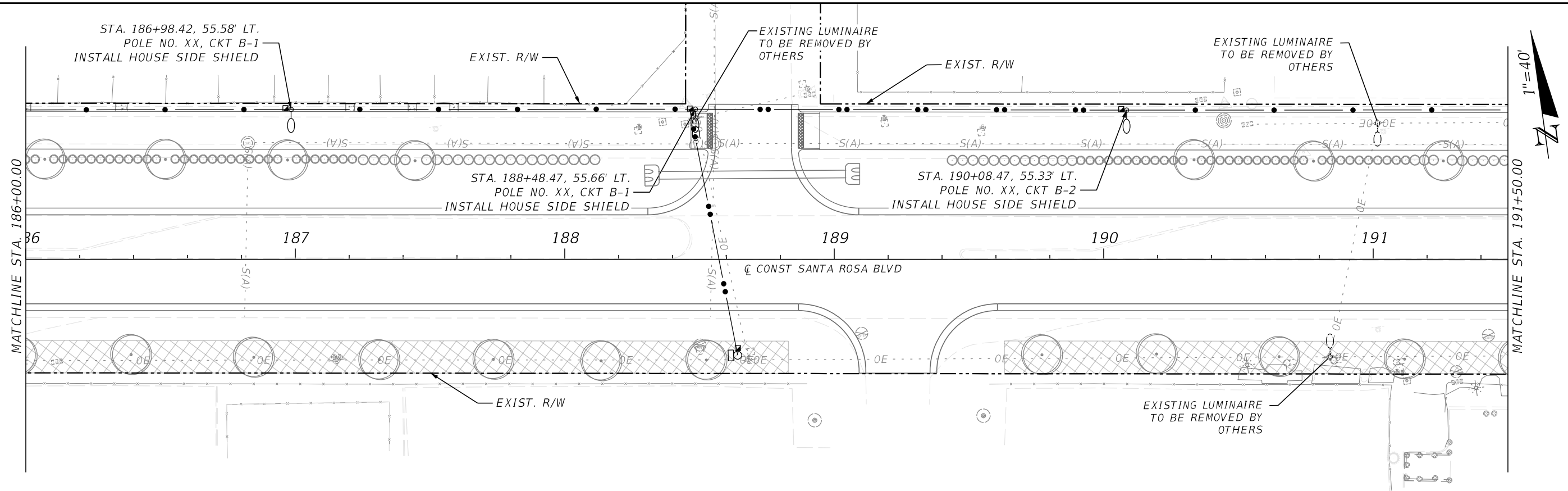
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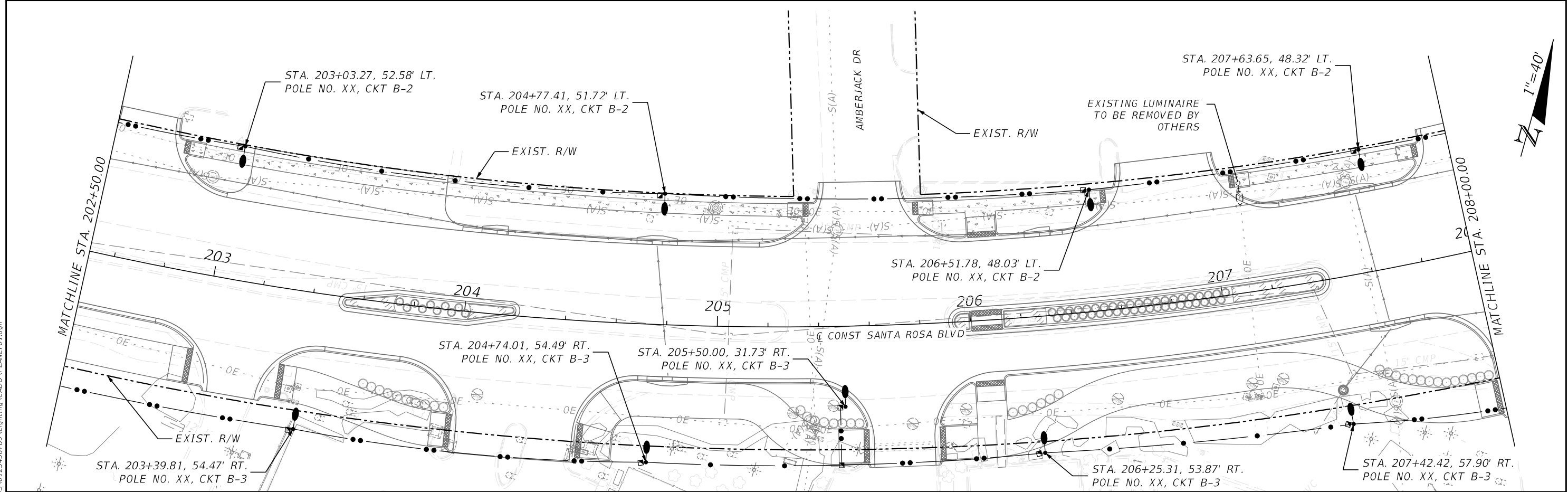
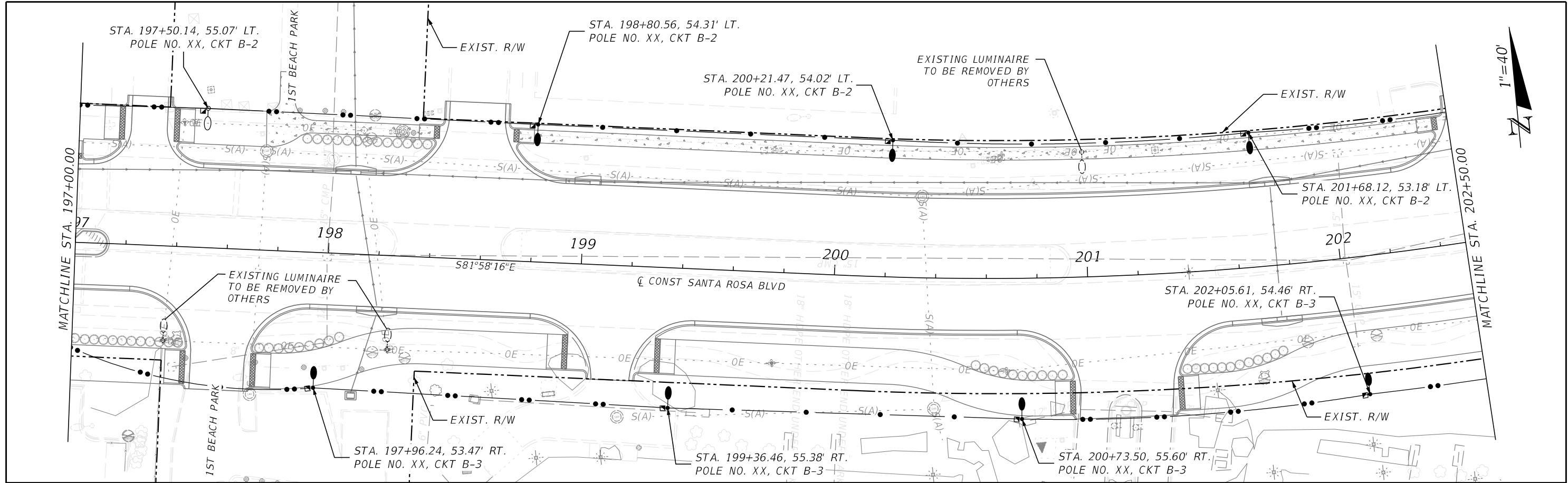
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REVISIONS				 BRYAN PAUL HUBBARD, P.E. LICENSE NUMBER: 70962 HALFF ASSOCIATES, INC. TALLAHASSEE, FLORIDA 32309		OKALOOSA COUNTY	PROJECT	SANTA ROSA BOULEVARD	LIGHTING PLAN		SHEET NO.
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REVISIONS			
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halff
BRYAN PAUL HUBBARD, P.E.
LICENSE NUMBER: 70962
HALFF ASSOCIATES, INC.
TALLAHASSEE, FLORIDA 32309

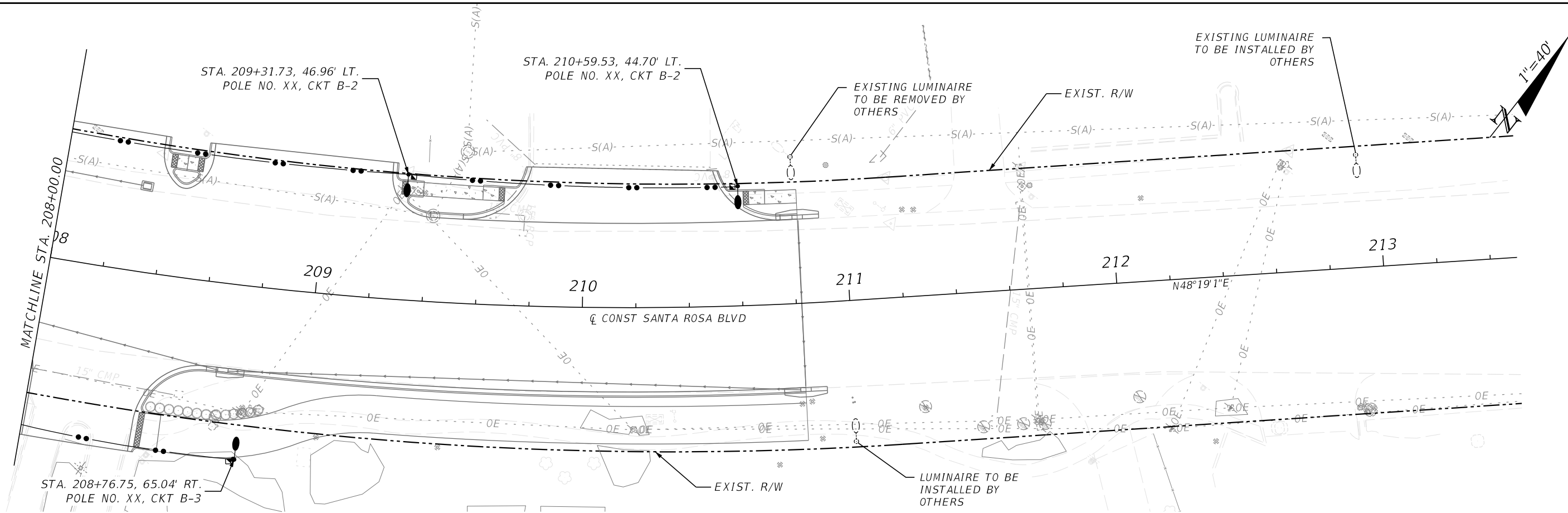


OKALOOSA COUNTY
PROJECT
SANTA ROSA BOULEVARD

LIGHTING PLAN	
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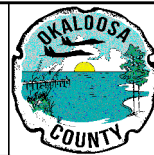
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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TALLAHASSEE, FLORIDA 32309



OKALOOSA COUNTY
PROJECT
SANTA ROSA BOULEVARD

LIGHTING PLAN	
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SHEET NO.
14

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