

LEGEND

OHE	EXIST. OVERHEAD ELECTRIC
UGE	EXIST. UNDERGROUND ELECTRIC
W	EXIST. WATER LINE
T	EXIST. TELEPHONE LINE
G	EXIST. GAS LINE
SSMH	MANHOLE
HCS	HOUSE CONNECTION SERVICE
X	CONSTRUCTION CALLOUT
X YZ	X = POLE NUMBER, Y = CABINET LOAD CENTER, Z = CIRCUIT NUMBER
	LED STREET LIGHT MOUNTED ON A 30'-0" POLE
■	#5 PULL BOX
---	UNDERGROUND CONDUIT RUN
---	UNDERGROUND CONDUIT RUN (CONCRETE ENCASED)

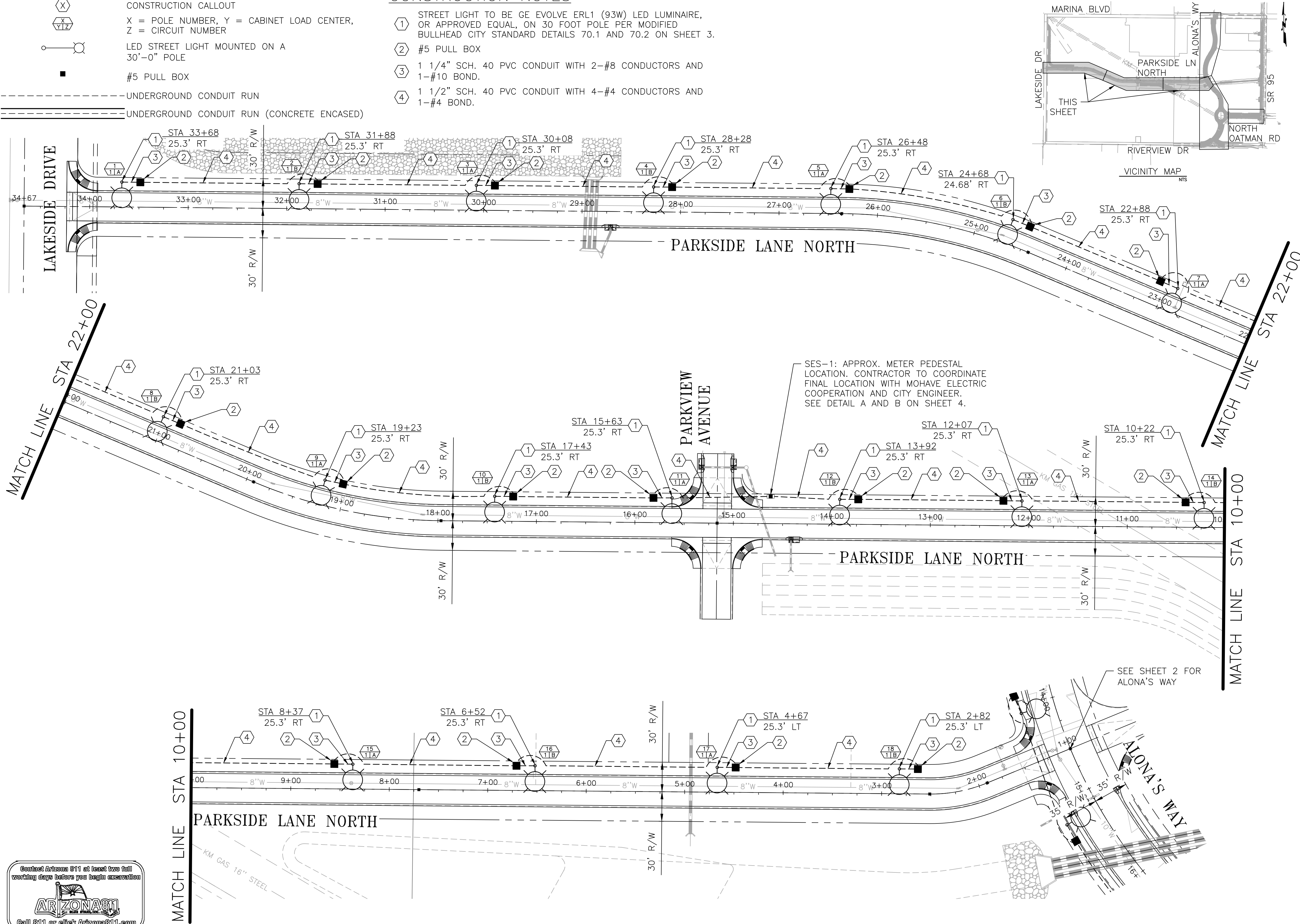
CITY CENTRE IMPROVEMENT DISTRICT

STREETLIGHTING PLAN

26-PW-002

CONSTRUCTION NOTES

- STREET LIGHT TO BE GE EVOLVE ERL1 (93W) LED LUMINAIRE, OR APPROVED EQUAL, ON 30 FOOT POLE PER MODIFIED BULLHEAD CITY STANDARD DETAILS 70.1 AND 70.2 ON SHEET 3.
- #5 PULL BOX
- 1 1/4" SCH. 40 PVC CONDUIT WITH 2-#8 CONDUCTORS AND 1-#10 BOND.
- 1 1/2" SCH. 40 PVC CONDUIT WITH 4-#4 CONDUCTORS AND 1-#4 BOND.



GENERAL NOTES:

- STREET LIGHTING POLES, PULL BOXES, AND CONDUIT SHALL BE PLACED IN THE DEDICATED RIGHT-OF-WAY. LOCATE STREET LIGHT POLES OUTSIDE OF PEDESTRIAN ACCESS ROUTES AND CLEAR OF ADA RAMPS/LANDINGS; MAINTAIN MINIMUM PEDESTRIAN CLEAR WIDTH. THE SERVING UTILITY COMPANY MAY REQUIRE A MINIMUM 2-FOOT CLEARANCE FROM THE PUBLIC UTILITY EASEMENT (PUE) TO AVOID CONFLICTS.
- STREET LIGHT CONDUIT SHALL BE 1 1/4" DIAMETER, SCHEDULE 40 PVC, UNLESS OTHERWISE NOTED.
- STREET LIGHT TRENCH AND CONDUIT INSTALLATION SHALL BE INSPECTED AND APPROVED BY THE CITY ENGINEER PRIOR TO BACKFILLING.
- UTILITY TRENCH AND CONDUIT INSTALLATION SHALL BE APPROVED BY EACH APPLICABLE UTILITY COMPANY PRIOR TO BACKFILLING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING STREET LIGHT CONSTRUCTION ACTIVITIES AND ELECTRICAL SERVICE CONNECTION WITH THE CITY AND APPLICABLE UTILITY COMPANY REPRESENTATIVES.
- REFER TO BULLHEAD CITY PROCEDURES MANUAL FOR STREET LIGHT REQUIREMENTS, MATERIALS, AND INSTALLATION DETAILS.
- CONTRACTOR SHALL TERMINATE FACILITIES AT THE PHASE LINE.
- EXACT EQUIPMENT LOCATIONS SHALL BE FIELD ADJUSTED AS NECESSARY TO AVOID CONFLICTS AND MEET CODE REQUIREMENTS, SUBJECT TO CITY ENGINEER APPROVAL.
- FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING.
- LOCATIONS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO CITY ENGINEER FOR ALL STREET LIGHT POLES, LUMINAIRES, FOUNDATIONS, AND ELECTRICAL COMPONENTS FOR REVIEW PRIOR TO FABRICATION OR INSTALLATION.
- ALL MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE CITY OF BULLHEAD CITY STANDARDS.
- APPROXIMATE METER PEDESTAL LOCATIONS SHOWN FOR REFERENCE. CONTRACTOR SHALL COORDINATE WITH MOHAVE ELECTRIC COOPERATIVE (MEC) AND THE CITY ENGINEER TO DETERMINE EXACT METER LOCATIONS, WIRING REQUIREMENTS, AND SERVICE CONNECTION DETAILS.
- VOLTAGE DROP SHALL NOT EXCEED 3 PERCENT AT THE FARTHEST LUMINAIRE. CONTRACTOR SHALL VERIFY ACTUAL INSTALLED CIRCUIT LENGTHS AND UPSIZE CONDUCTORS IF FIELD CONDITIONS RESULT IN INCREASED LENGTHS. IF ALTERNATIVE METER PEDESTAL LOCATION IS SELECTED OR LUMINAIRES ARE INSTALLED, CONTRACTOR SHALL VERIFY CIRCUIT LOADING AND VOLTAGE DROP AND ADJUST CONDUCTOR SIZES AS NECESSARY TO MAINTAIN THE 3 PERCENT LIMIT. ANY CHANGES TO LUMINAIRE TYPE OR ELECTRICAL LOAD SHALL REQUIRE VERIFICATION OF VOLTAGE DROP.
- CONTRACTOR SHALL VERIFY THAT ALL POLE LOCATIONS, PULL BOXES, METER PEDESTALS, AND CONDUIT ROUTING REMAIN WITHIN THE RIGHT-OF-WAY OR DEDICATED UTILITY EASEMENTS PRIOR TO INSTALLATION. ANY CONFLICT WITH PRIVATE PROPERTY, LANDSCAPE FEATURES, OR PEDESTRIAN ACCESS ROUTES SHALL BE REPORTED TO THE ENGINEER.

PROJECT DIRECTORY

OWNER/DEVELOPER:	CITY OF BULLHEAD CITY 2355 TRANE ROAD BULLHEAD CITY, AZ 86442
PROJECT ENGINEER:	GREENLIGHT TRAFFIC ENGINEERING, LLC 14050 N 83RD AVE, SUITE 290 PEORIA, AZ 85381 CONTACT: GRANT TRIENEN PHONE: (480) 889-4264
CIVIL ENGINEER:	ANDERSON-NELSON, INC. 4143 N. 12TH STREET PHOENIX, AZ 85014 CONTACT: DON N. ANDERSON PHONE: (602) 273-1850

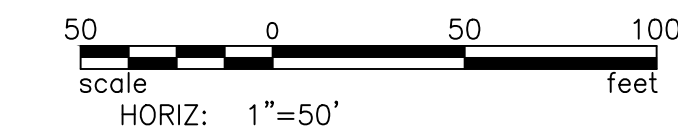
DRAWING INDEX

1	GENERAL NOTES AND STREET LIGHTING PLAN
2	STREET LIGHTING PLAN
3-4	DETAILS AND SCHEDULES

APPROVED:

CITY ENGINEER
CITY OF BULLHEAD CITY

DATE



SCALE (H): 1"=50'
SCALE (V):
DESIGNED BY: GT
DRAWN BY: IF
CHECKED BY: GT
DATE: 06/02/2026

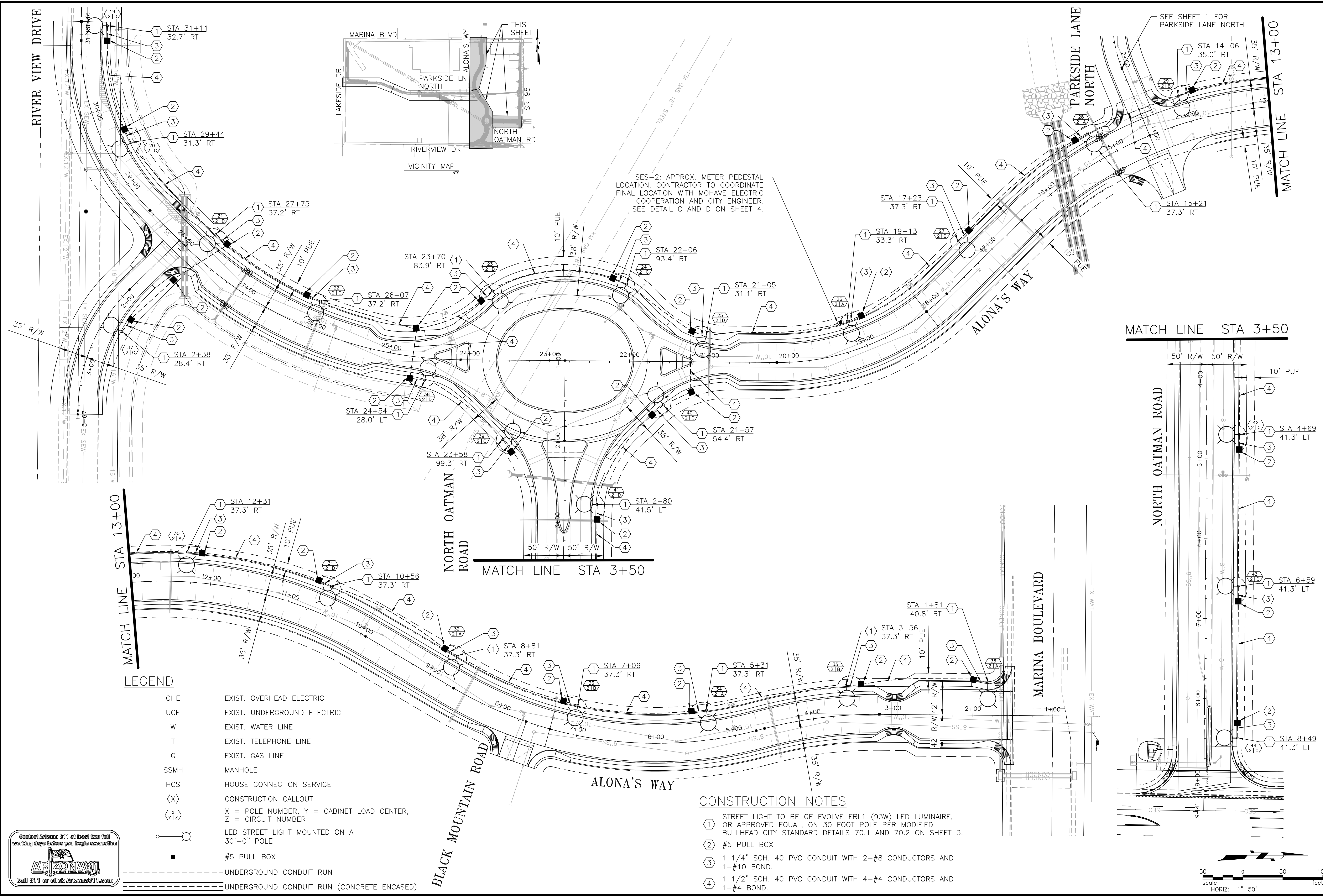
GENERAL NOTES AND STREET LIGHTING PLAN
CITY CENTRE IMPROVEMENT DISTRICT
STREETLIGHTING DESIGN
BULLHEAD CITY PROJECT

NO.	DATE	DESCRIPTION



GL PROJECT NO.
262005

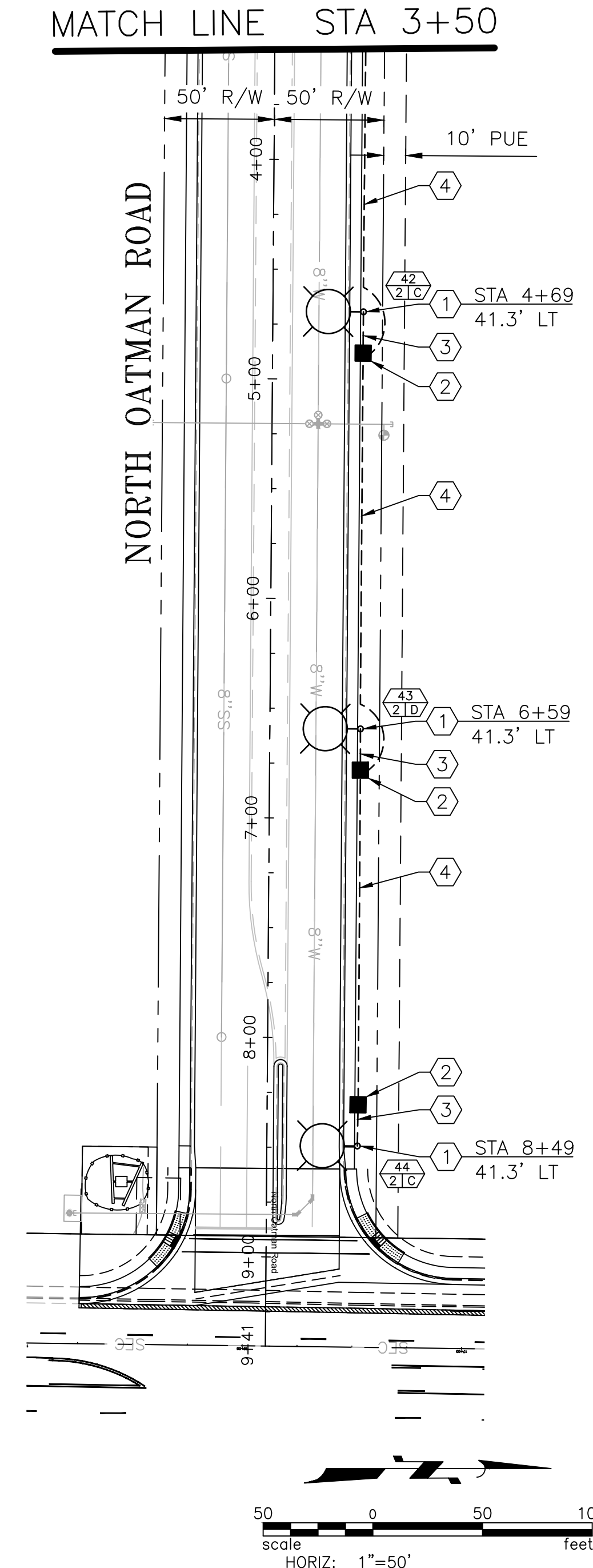




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- | | |
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Greenlight
Traffic Engineering

SCALE (H): 1"=50'	DESIGNED BY: GT
SCALE (V):	DRAWN BY: IF
	CHECKED BY: GT
	DATE: 06/02/2026

STREET LIGHTING PLAN

CITY CENTRE IMPROVEMENT DISTRICT

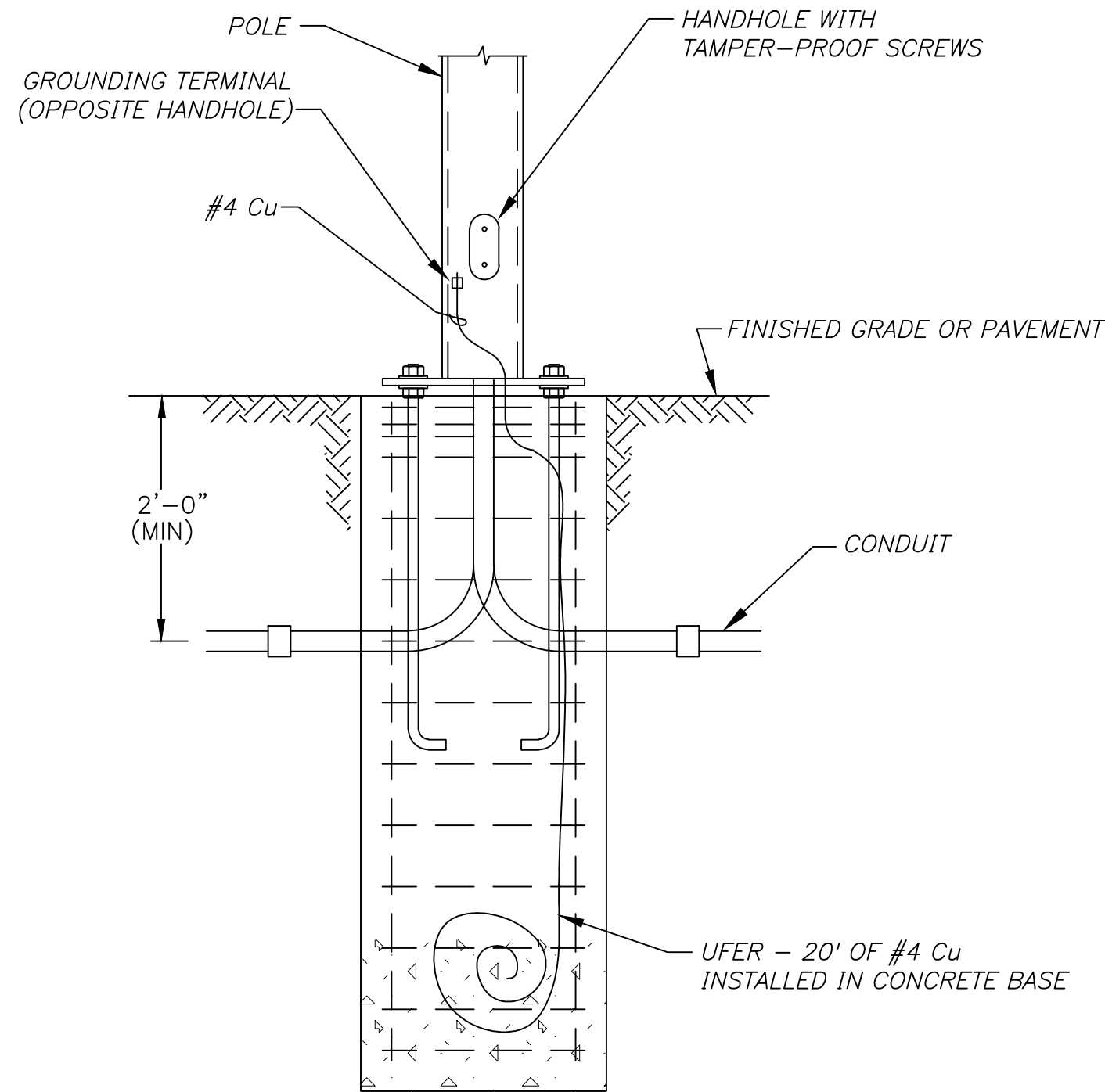
STREET LIGHTING DESIGN

BULLHEAD CITY PROJECT

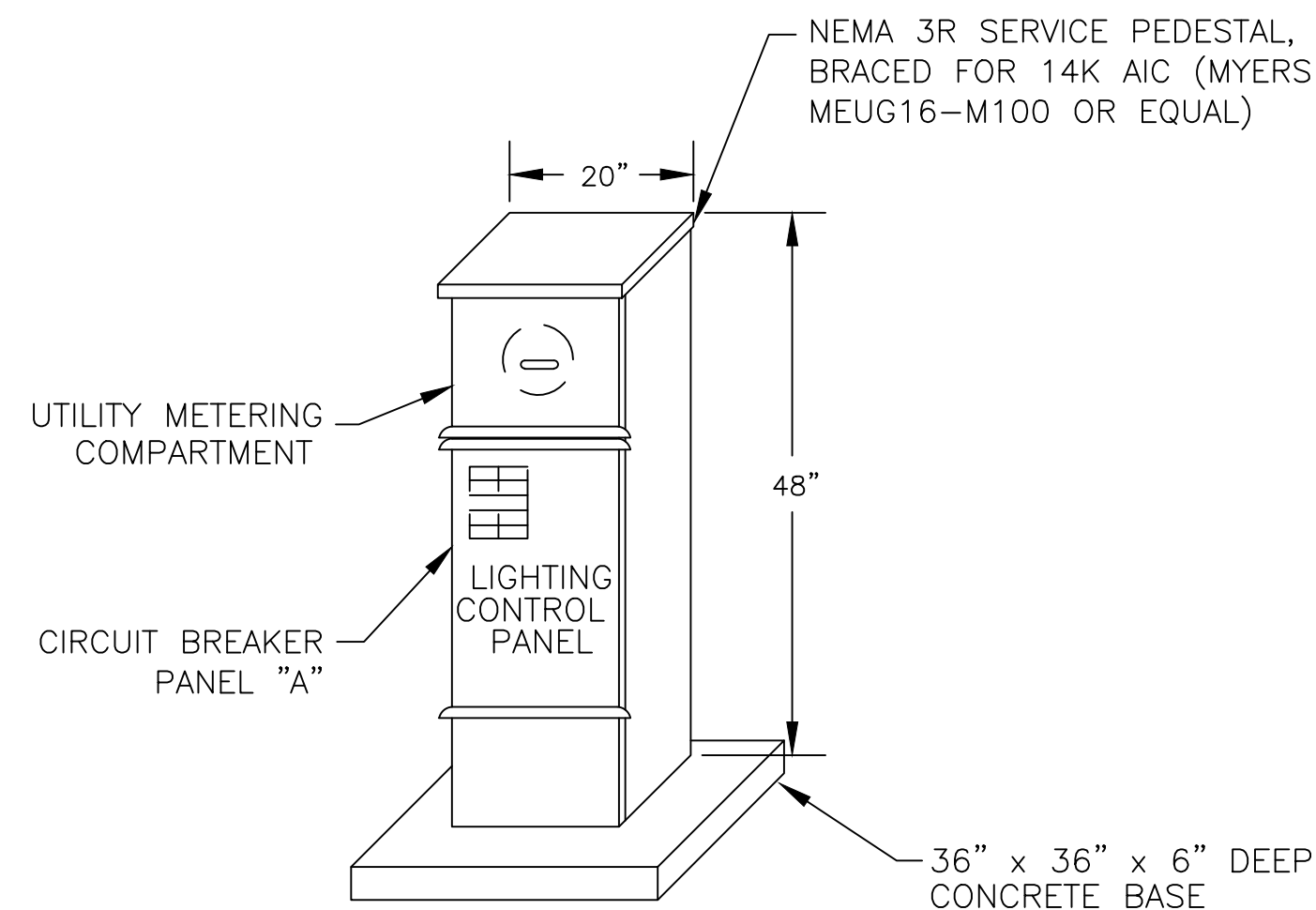
NO.	DATE	DESCRIPTION

82158
GRANT
TREINEN
ARIZONA, USA

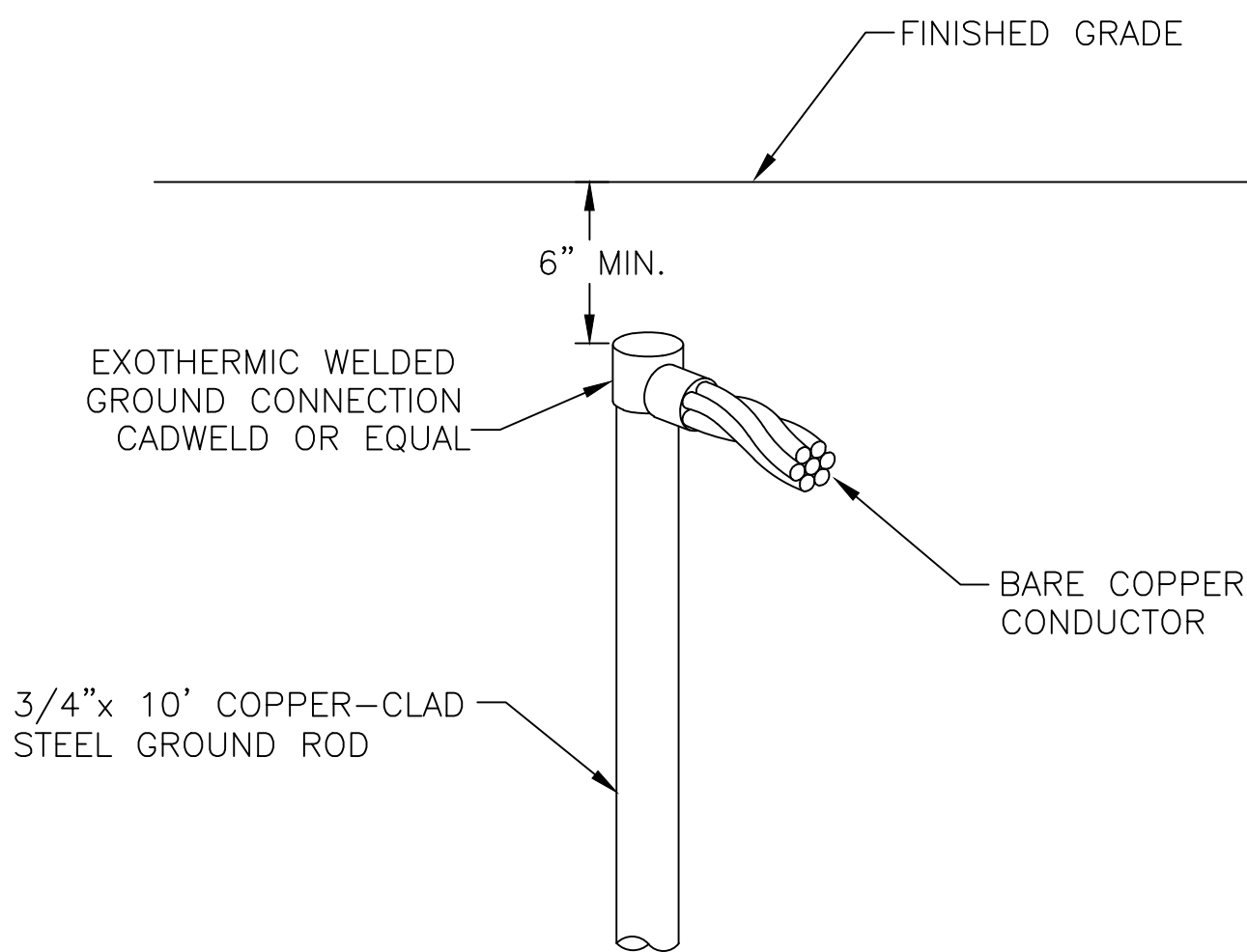
GL PROJECT NO.	262005
2	OF 4



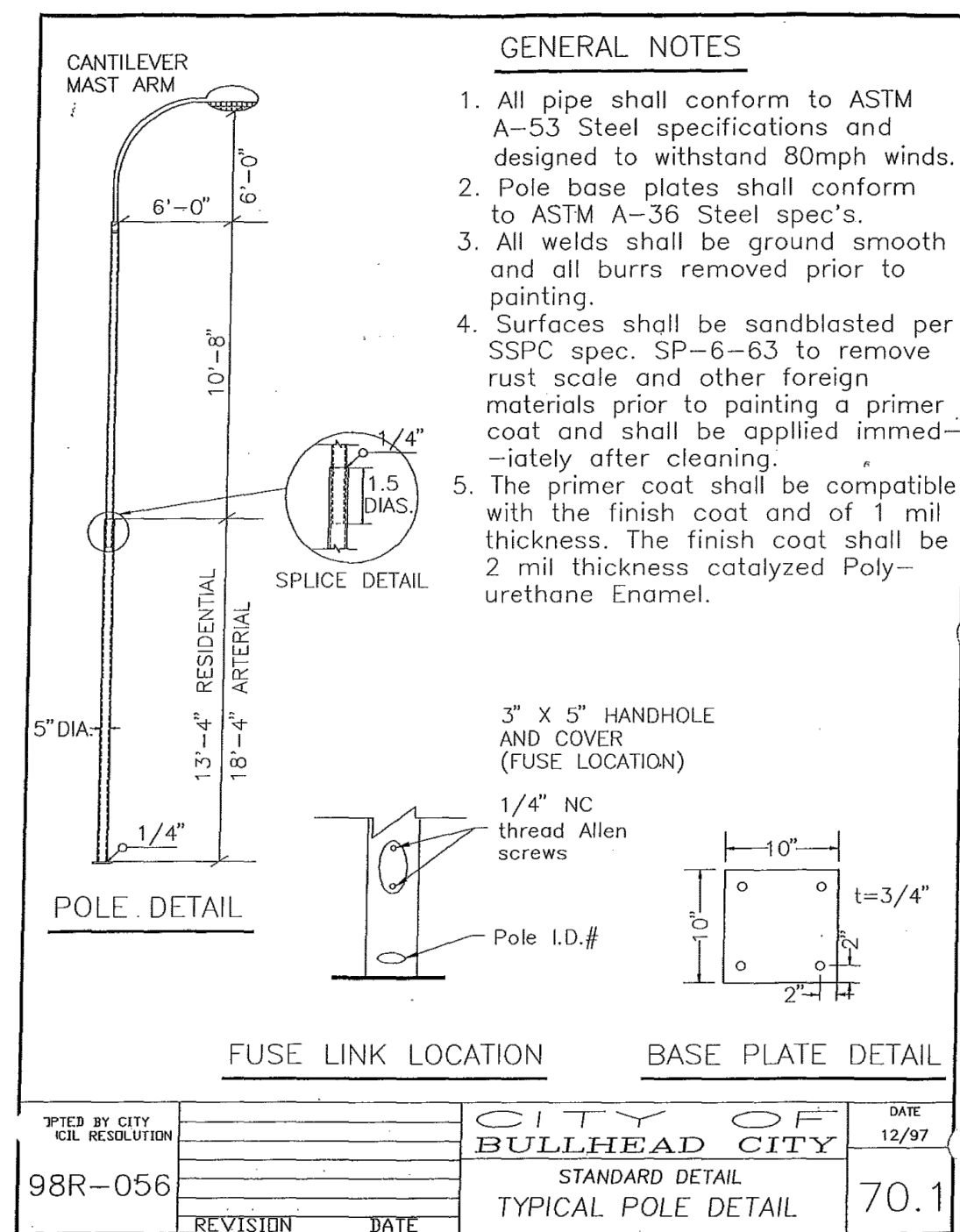
1 STREET LIGHT GROUNDING DETAIL



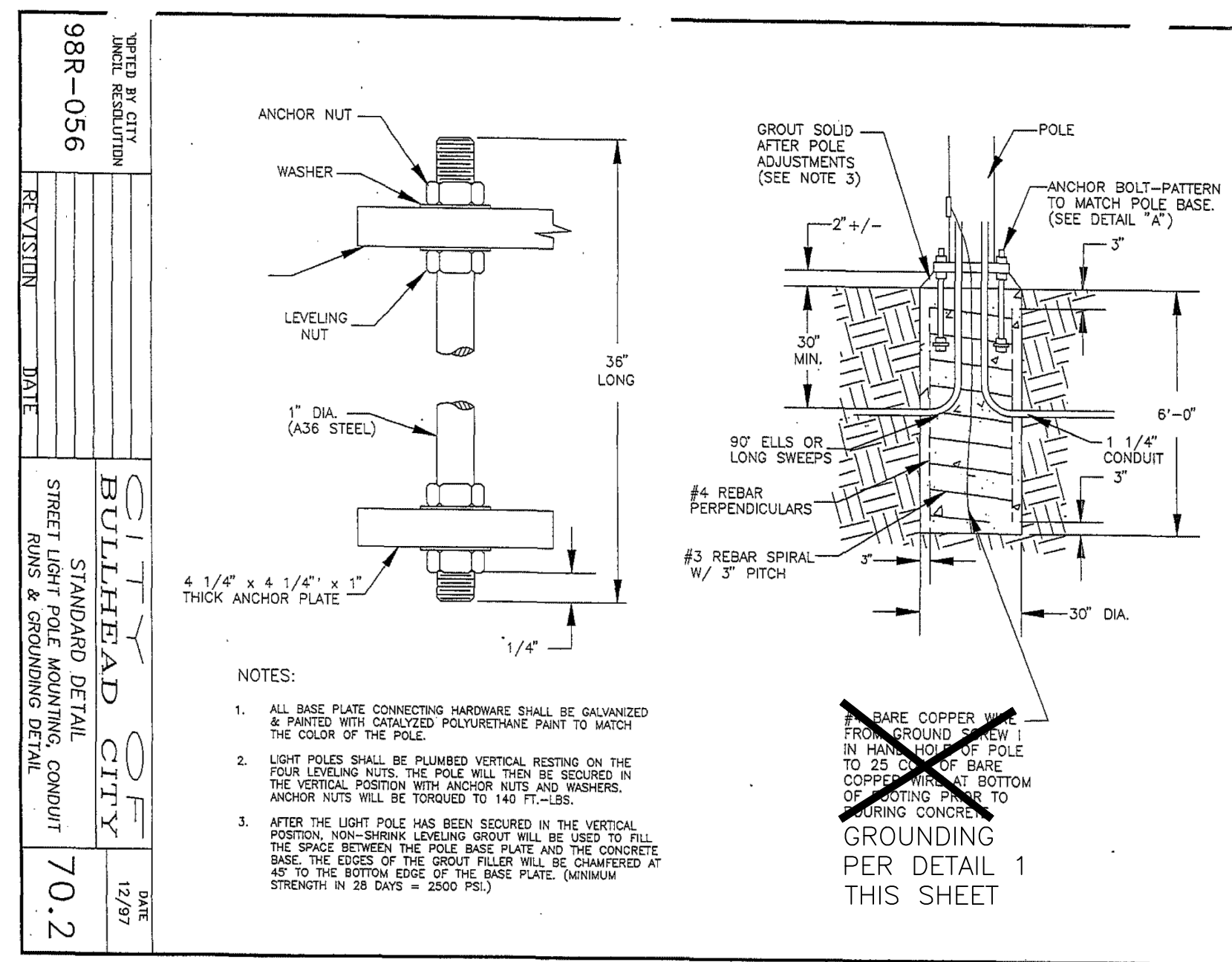
2 SERVICE ENTRANCE SECTION ELEVATION



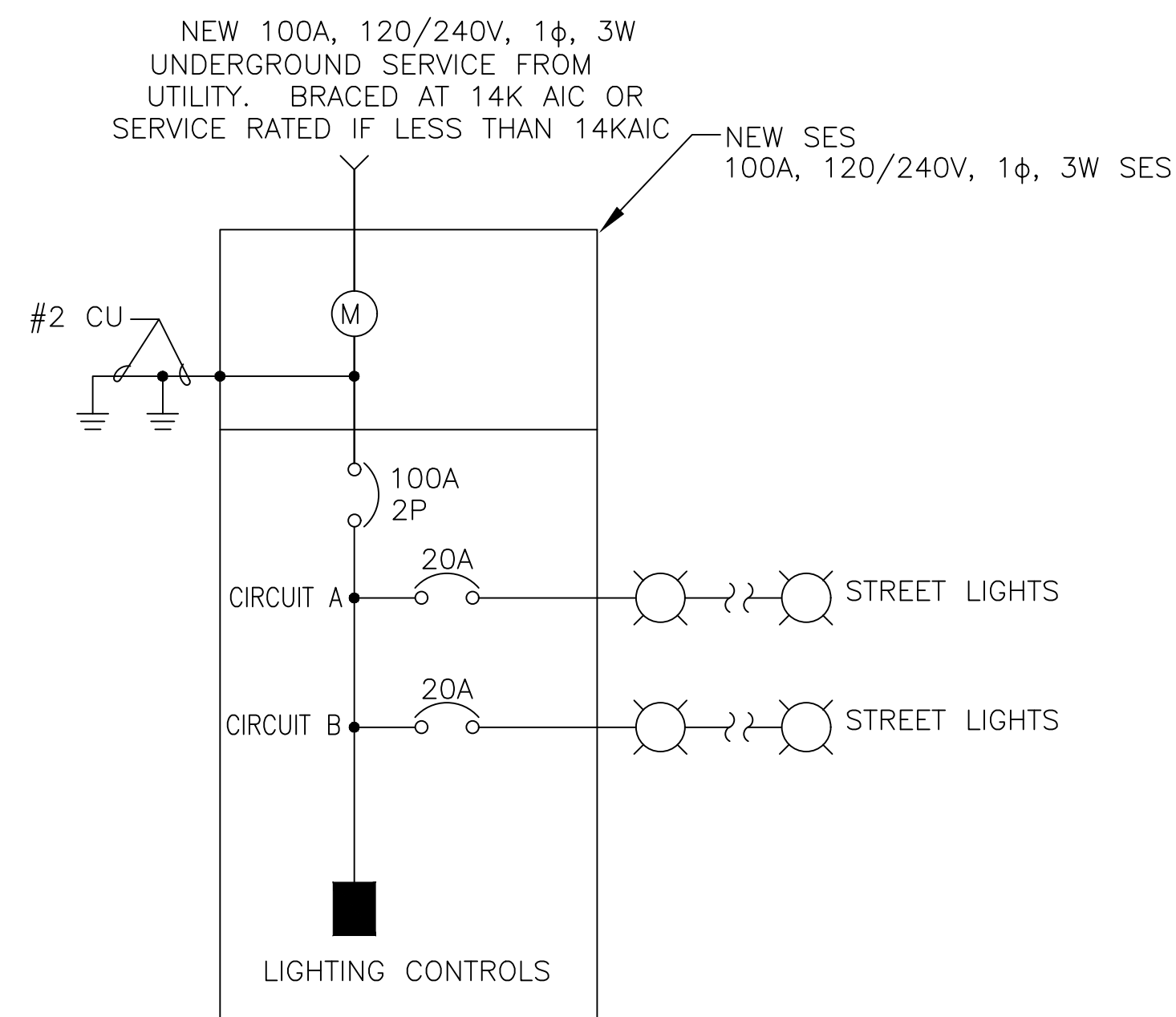
3 CABLE TO GROUND ROD CONNECTION



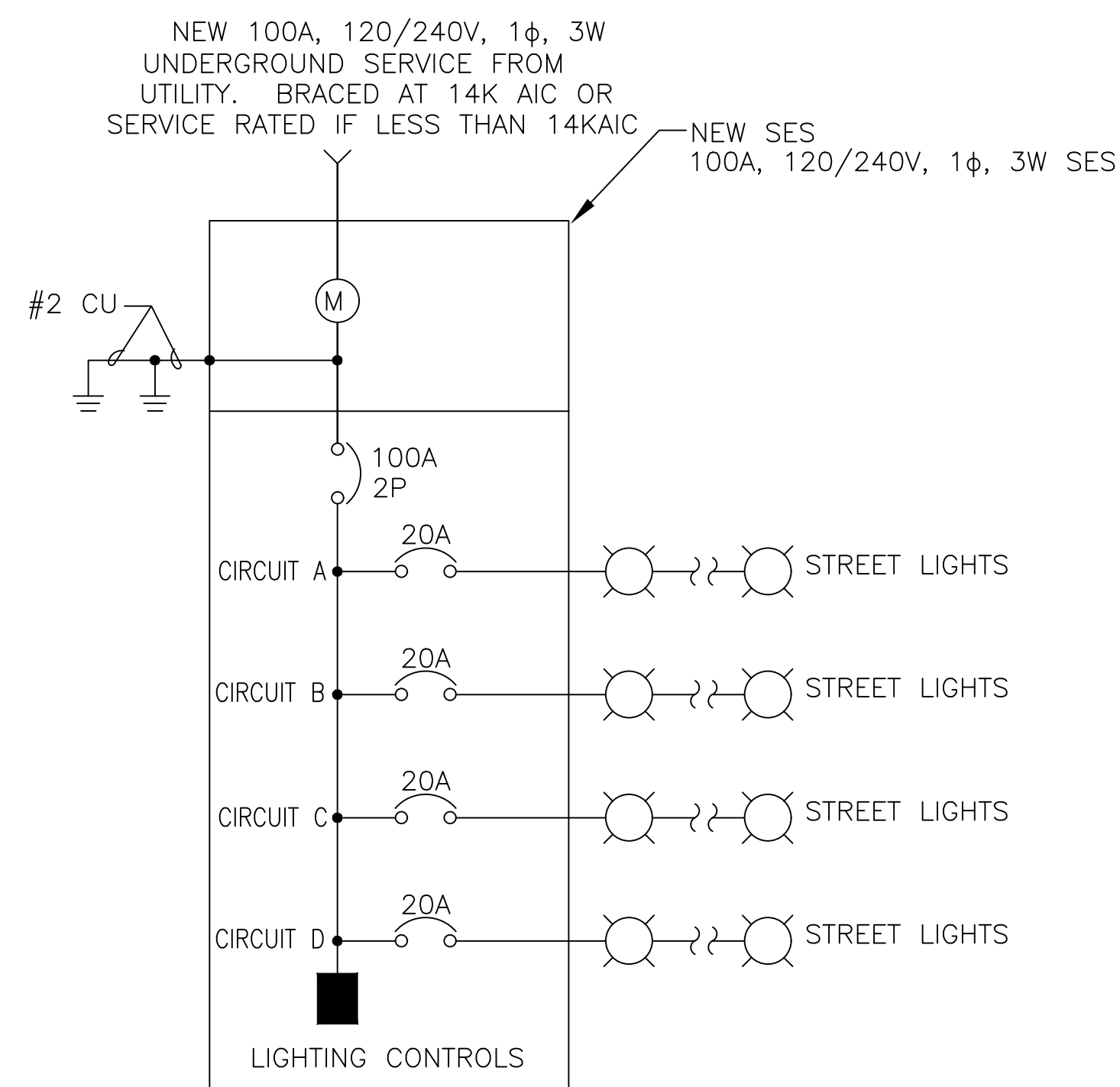
4 CITY OF BULLHEAD STANDARD DETAIL 70.1



5 CITY OF BULLHEAD STANDARD DETAIL 70.2



PANEL:	A	VOLTAGE:	120 / 240	MAIN CB:	100A	BUS AMPS:	100A
CB TYPE:	BOLT-ON	MOUNTAIN:	SURFACE	BRACING:	14K	BKR A/C:	14K
CIRCUIT DESCRIPTION	BKR	CIRCUIT	A (AMPS)	B (AMPS)	CIRCUIT	BKR	CIRCUIT DESCRIPTION
CIRCUIT A – STREET LIGHTS (QTY 9 @ 93W)	20	1	7.75				
				7.75	2	20	CIRCUIT B – STREET LIGHTS (QTY 9 @ 93W)
		3					
					4		
		5					
					6		
		7					
					8		
		9					
					10		
		11					
					12		
TOTAL			7.75	7.75	AMPS (@ 120V)		
LOAD CALCULATIONS							
SUBTOTAL (VA)			1,674				
*25% PER NEC (VA)			419				
TOTAL				2,093		@ 240V, 1φ = 8.72 AMPS	



PANEL:	A	VOLTAGE:	120 / 240	MAIN CB:	100A	BUS AMPS:	100A
CB TYPE:	BOLT—ON	MOUNTAIN:	SURFACE	BRACING:	14K	BKR A/C:	14K
CIRCUIT DESCRIPTION	BKR	CIRCUIT	A (AMPS)	B (AMPS)	CIRCUIT	BKR	CIRCUIT DESCRIPTION
CIRCUIT A — STREET LIGHTS (QTY 6 @ 93W)	20	1	5.27				
				4.31	2	20	CIRCUIT B — STREET LIGHTS (QTY 5 @ 93W)
CIRCUIT C — STREET LIGHTS (QTY 8 @ 93W)	20	3	6.89				
		5		6.03	4	20	CIRCUIT D — STREET LIGHTS (QTY 7 @ 93W)
					6		
		7			8		
		9			10		
		11			12		
TOTAL			12.16	10.34	AMPS (@ 120V)		
LOAD CALCULATIONS							
SUBTOTAL (VA)			2,418				
*25% PER NEC (VA)			605				
TOTAL			3,023	@ 240V, 1φ =		12.60 AMPS	



NOTE: FINAL SERVICE CONFIGURATION, EQUIPMENT ARRANGEMENT, GROUNDING, LIGHTING CONTROLS, AND PANEL SCHEDULES SHALL BE COORDINATED WITH MOHAVE ELECTRIC COOPERATIVE (MEC) AND THE CITY ENGINEER. CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT AND ADJUST SERVICE EQUIPMENT AIC RATINGS AS REQUIRED. CONFIGURATION MAY BE REVISED TO MEET FIELD AND UTILITY REQUIREMENTS.

SCALE (H):	DESIGNED BY:	DATE: 06/02
SCALE (V):	DRAWN BY:	
	CHECKED BY:	

DETAILS AND SCHEDULES

CITY CENTRE IMPROVEMENT DISTRICT

STREETLIGHTING DESIGN

BULLHEAD CITY PROJECT



GL PROJECT NO
262005