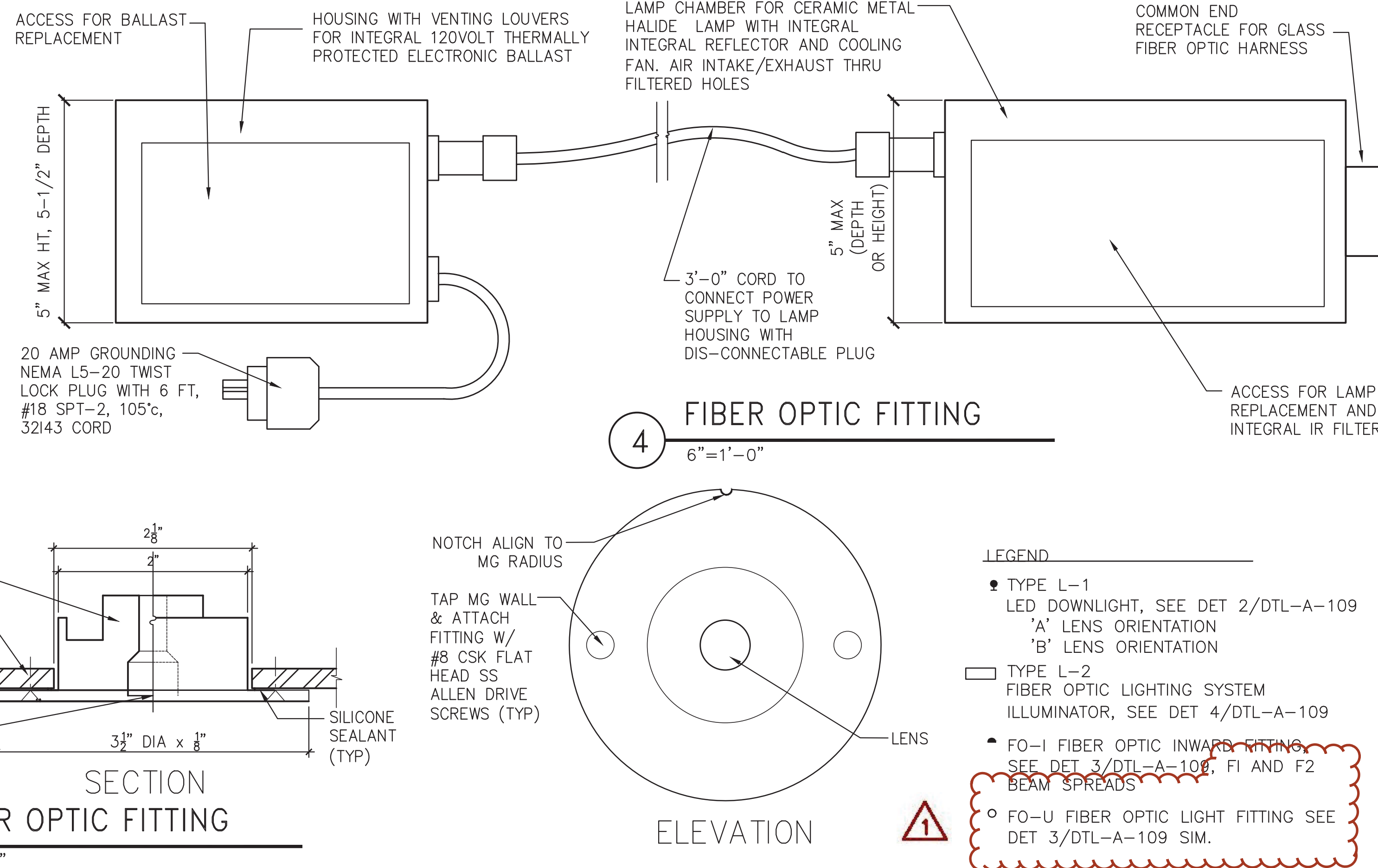
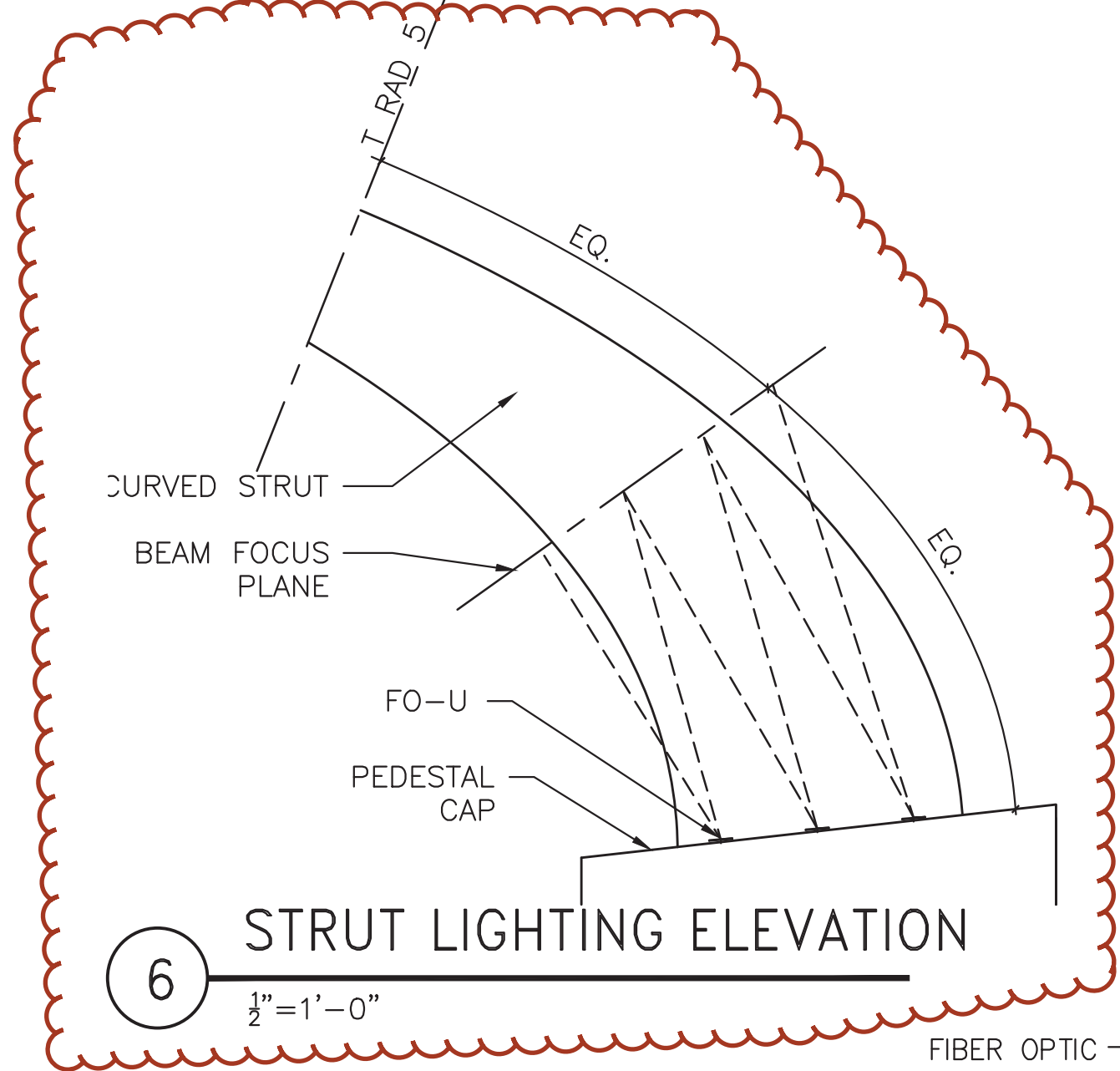
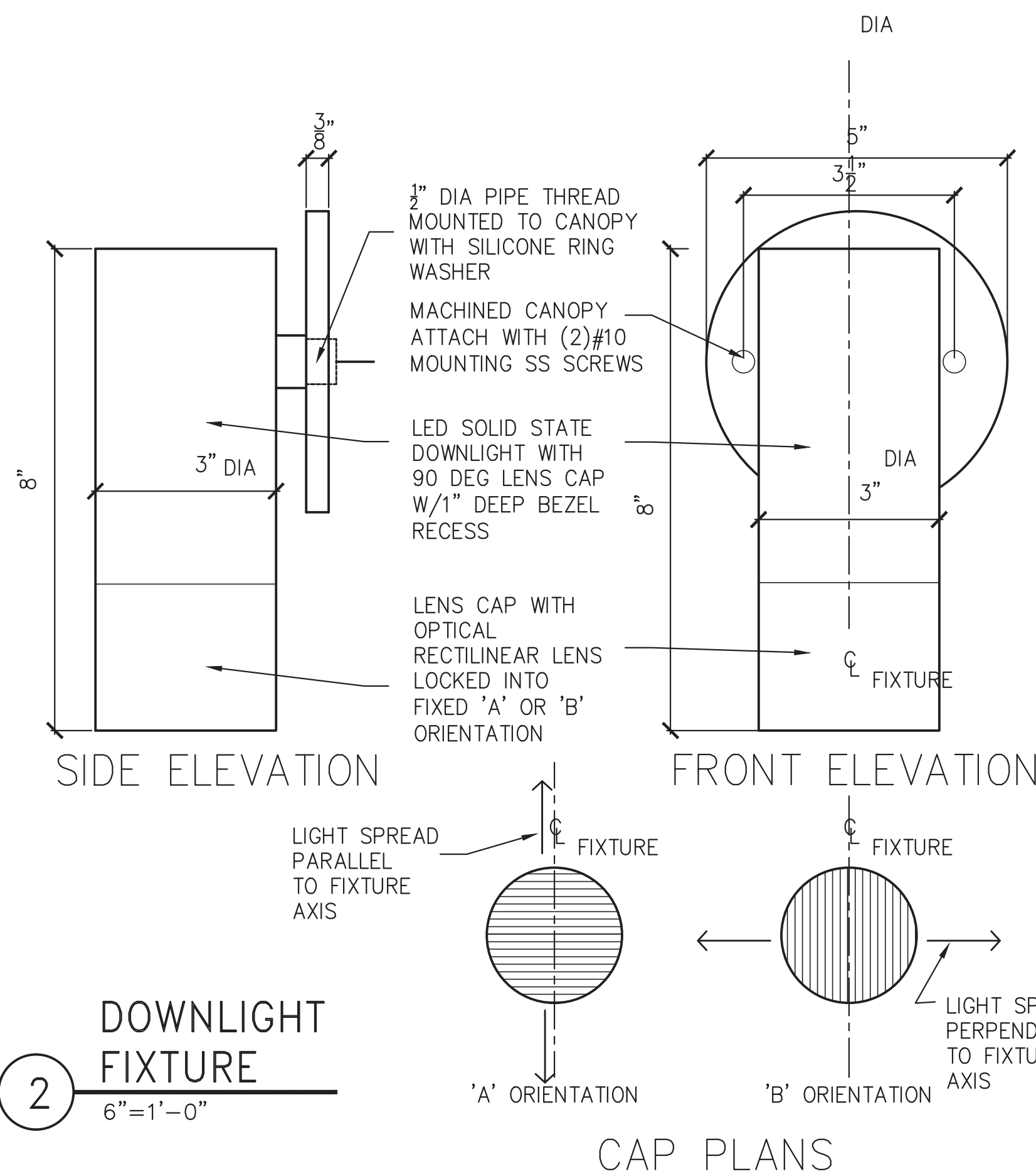


DESIGNED JML 10/14/14		DATE		REVISIONS				WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY		CONTRACT NO. FQ15104	
DRAWN JLH 12/11/14		DATE		DESCRIPTION				DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES		ESCALATOR CANOPIES	
CHECKED RES 12/15/14		DATE		ADDENDUM				OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM		HUNTINGTON ESCALATOR CANOPY	
APPROVED JML 01/14/15		DATE						GFP A Gannett Fleming/Parsons JOINT VENTURE		PEDESTAL CAP DETAILS	
		DATE						SUBMITTED BRADLEY A. MASON PROJECT MANAGER		SCALE 1/4" = 1'	
		DATE				APPROVED		DRAWING NO. C15-A-108		SHEET NO. M1270-254	



Light fixtures shall comply with the general conditions and requirements of the General Lighting Specification Section 16525. Fixture components shall be manufactured in accordance with appropriate and current requirements of the Underwriters' Laboratories, Inc., "Standards for Safety" and shall carry the appropriate label or labels. The materials and installation shall be in accordance with current federal, state, and local electrical codes.

**TYPE L-1 LED DOWNLIGHT**  
LAMP: LED SOLID STATE  
WATTAGE: 25W  
FIXTURE WATTAGE/VOLTAGE: 25W/12V

Notes: LED solid state adjustable spotlight with fixture canopy, suitable for exterior use, surface mounted curved strut cross structural steel members; for use with remote transformer. Lighting fixture components to include an integral LED board, interchangeable optic modules with precise beam spread and light output (SP(18 degree) for each fixture, plus (8 qty) NSP (14-degree)), to permit field changes to optical distribution: clear glass lens and linear lens accessory to elongate optical distribution 'A' or 'B' orientation, See Detail 2/A109

Fixture housing, lens cap, LED board, optic module and lens accessory to be provided with natural physical 'stop'/locking devices to obtain/ensure optimum light output/cocus.

**TYPE L-2 FIBER OPTIC LIGHTING SYSTEMS**  
LAMP: METAL HALIDE  
WATTAGE: 150W  
FIXTURE WATTAGE/VOLTAGE: 150W/120V

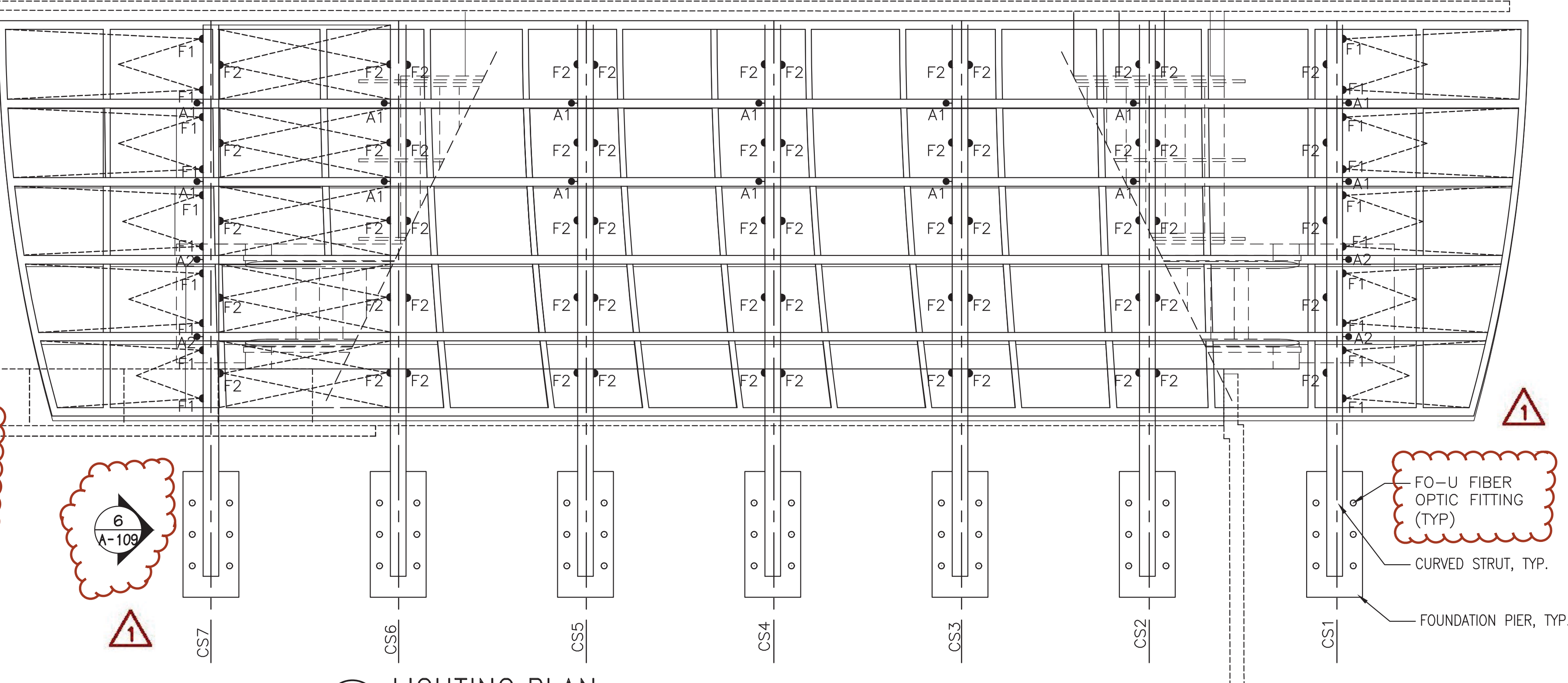
Notes: Fiber optic lighting system recessed mounted inside canopy steel structure. Lighting system components to include an illuminator equipped with a metal halide source and integral fan; glass fiber tails to transmit light; and a fixture/lens assembly with precise beam spread and light output. Illuminator shall be composed of a separate lamp housing component and ballast component, which can be disconnected from each other for maintenance. Ballast component shall be connected to power supply via 20 AMP grounding NEMA 15-20 twist lock plug. Fittings to be aluminum, natural finish. Fiber optic lighting system shall be suitable for exterior use. See Details 3/A109 for fixture physical description. See Light Fixture Specification Section 16525.

**ILLUMINATOR**  
MHI - Metal Halide Illuminator (modified to "fit" within curved strut base cover and be completely accessible) see Detail 4, A109 and drawing A108

**FIBER BUNDLES**  
Fiber bundles must be sized/coordinated with illuminator and fitting specification to maintain light level criteria

**FITTINGS**  
FO-I: Circular Plate with Medium Beam (recessed) FO-I fitting shall be recessed in curved strut, adjusted on opposite strut with optical properties as depicted in lighting plan, delivering an even minimum/maintained light level of 7 footcandles on the opposite girder. See Detail 3, A109

FO-U: Circular Plate with Medium Beam (recessed) FO-U fitting shall be recessed in top of pedestal cap, see DWG C15-A-108. Adjust to wash side of strut, delivering an even minimum/maintained light level of 10 footcandles at the beam focus plane. See DET 6/C15-A-109



**5 LIGHTING NOTES**  
NTS

DESIGNED	JML	10/14/14
DRAWN	JLH	12/11/14
CHECKED	RES	12/15/14
APPROVED	JML	01/14/15

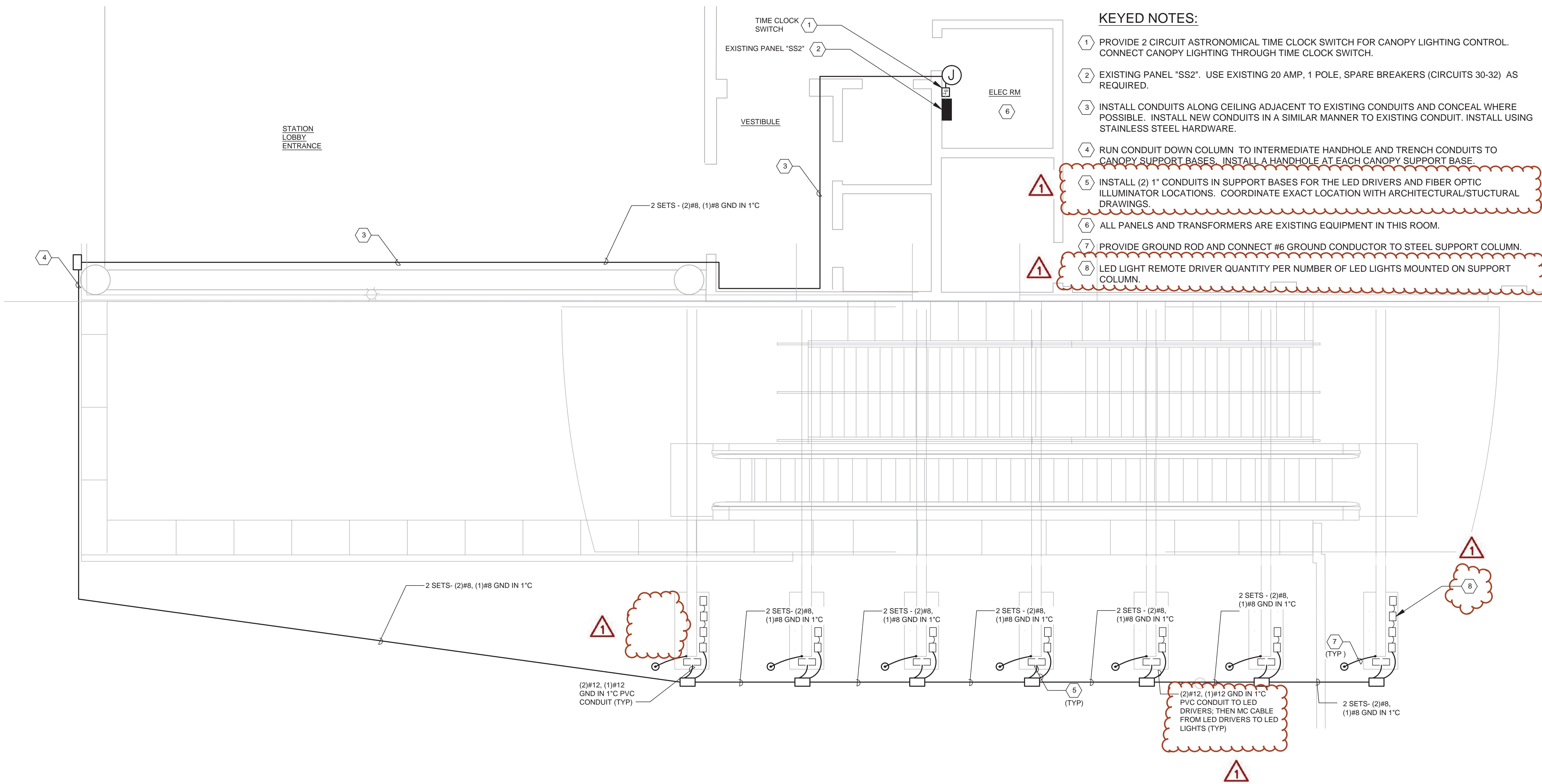
REVISIONS	
DATE	DESCRIPTION
03/09/15	ADDENDUM

**LOURIE ARCHITECTS LLC**  
LOURIEARCH.COM

**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**  
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES  
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM  
APPROVED \_\_\_\_\_

**GFP** A Gannett Fleming/Parsons JOINT VENTURE  
SUBMITTED BRADLEY A. MASON PROJECT MANAGER

<b>FINAL SUBMITTAL</b>	CONTRACT NO. FQ15104
<b>ESCALATOR CANOPIES</b> HUNTINGTON ESCALATOR CANOPY LIGHTING PLAN	
SCALE 1 0 1 2 3 4 5 1/4" = 1'	DRAWING NO. C15-A-109 SHEET NO. M1270-255



- KEYED NOTES:**
- 1 PROVIDE 2 CIRCUIT ASTRONOMICAL TIME CLOCK SWITCH FOR CANOPY LIGHTING CONTROL. CONNECT CANOPY LIGHTING THROUGH TIME CLOCK SWITCH.
  - 2 EXISTING PANEL "SS2". USE EXISTING 20 AMP, 1 POLE, SPARE BREAKERS (CIRCUITS 30-32) AS REQUIRED.
  - 3 INSTALL CONDUITS ALONG CEILING ADJACENT TO EXISTING CONDUITS AND CONCEAL WHERE POSSIBLE. INSTALL NEW CONDUITS IN A SIMILAR MANNER TO EXISTING CONDUIT. INSTALL USING STAINLESS STEEL HARDWARE.
  - 4 RUN CONDUIT DOWN COLUMN TO INTERMEDIATE HANDHOLE AND TRENCH CONDUITS TO CANOPY SUPPORT BASES. INSTALL A HANDHOLE AT EACH CANOPY SUPPORT BASE.
  - 5 INSTALL (2) 1" CONDUITS IN SUPPORT BASES FOR THE LED DRIVERS AND FIBER OPTIC ILLUMINATOR LOCATIONS. COORDINATE EXACT LOCATION WITH ARCHITECTURAL/STRUCTURAL DRAWINGS.
  - 6 ALL PANELS AND TRANSFORMERS ARE EXISTING EQUIPMENT IN THIS ROOM.
  - 7 PROVIDE GROUND ROD AND CONNECT #6 GROUND CONDUCTOR TO STEEL SUPPORT COLUMN.
  - 8 LED LIGHT REMOTE DRIVER QUANTITY PER NUMBER OF LED LIGHTS MOUNTED ON SUPPORT COLUMN.

**HUNTINGTON STATION POWER FLOOR PLAN**

SCALE: 1/4" = 1'-0"

FINAL SUBMITTAL CONTRACT NO. FQ15104

**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**  
 DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES  
 OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

**GFP** A Gannett Fleming/Parsons JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED **BRADLEY A. MASON**  
 PROJECT MANAGER

**ESCALATOR CANOPIES HUNTINGTON STATION**  
**ELECTRICAL POWER PLAN**

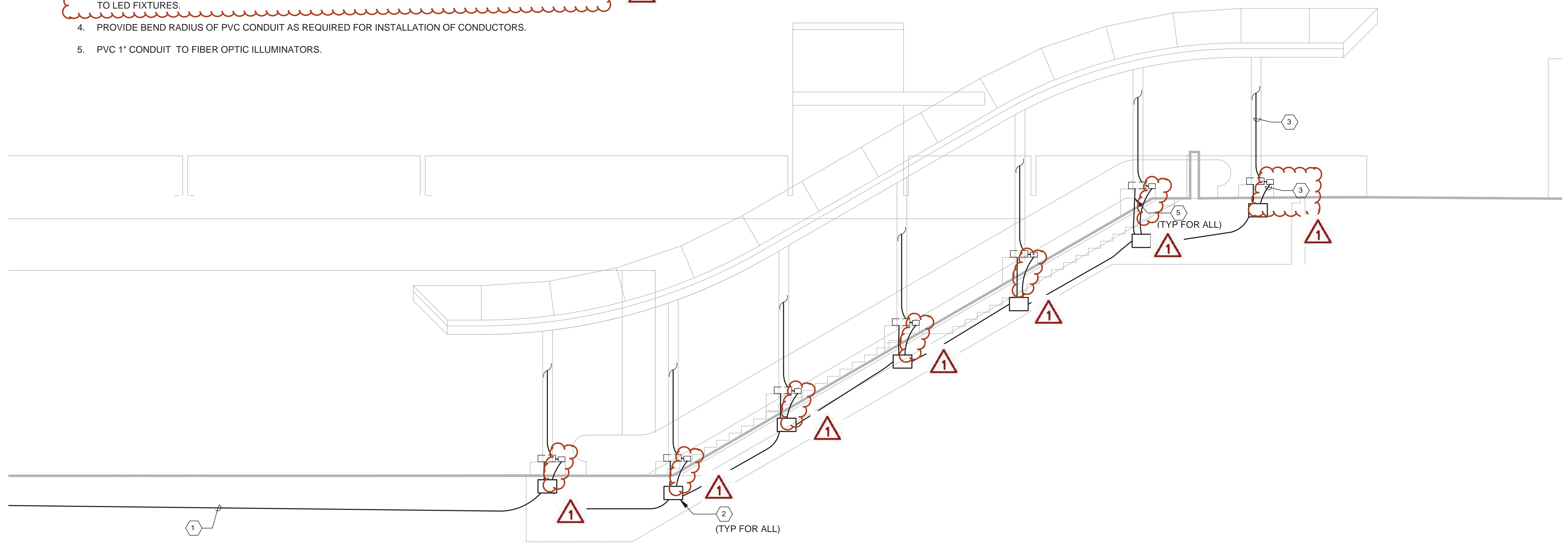
SCALE: AS SHOWN DRAWING NO. C15-E-102 SHEET NO. M1270-267



DESIGNED	S.A.B.	1/20/15	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	BY
DRAWN	S.A.B.	1/20/15	03/09/15	ADDENDUM		
CHECKED	B.A.S.	1/20/15				
APPROVED	M.G.	1/20/15				

# KEYED NOTES:

1. INSTALL BURIED CONDUIT MINIMUM OF 30" BFG .
2. INSTALL HANDHOLD MINIMUM 15" X 17" X 12" CENTERED ON SUPPORT FOUNDATION WITH (2) 1" C INSTALL IN EACH COLUMN BASE FOR LED LIGHTING FIXTURES AND FIBER OPTIC ILLUMINATOR. SEE PLAN DRAWING, ARCHITECTURAL/STRUCTURAL DRAWINGS FOR EXACT LOCATIONS.
3. REFER TO STRUCTURAL DRAWINGS FOR EXACT LOCATION OF ACCESS OPENING IN COLUMN. PROVIDE PVC CONDUIT TO COLUMN BASE, TO LED REMOTE DRIVER AND PROVIDE MC CABLE FROM EACH REMOTE DRIVER TO LED FIXTURES.
4. PROVIDE BEND RADIUS OF PVC CONDUIT AS REQUIRED FOR INSTALLATION OF CONDUCTORS.
5. PVC 1" CONDUIT TO FIBER OPTIC ILLUMINATORS.



HUNTINGTON STATION SECTION WIRING PLAN  
NO SCALE

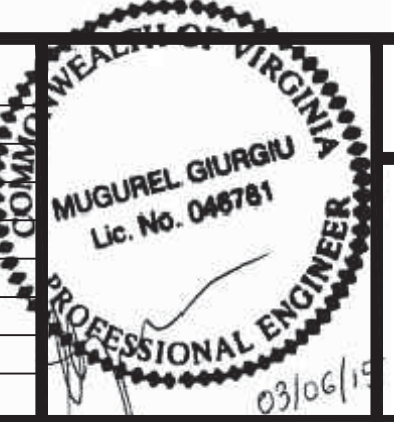
FINAL SUBMITTAL

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FQ15104

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		DATE
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		DATE
APPROVED	M.G.	1/20/15
		DATE

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NUMBER	DESCRIPTION
03/09/15	ADDENDUM

REVISIONS		
DATE	BY	DESCRIPTION



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GFP A Gannett Fleming/Parsons JOINT VENTURE  
SUBMITTED BRADLEY A. MASON PROJECT MANAGER

ESCALATOR CANOPIES HUNTINGTON STATION	
SECTION WIRING PLAN	
SCALE AS SHOWN	DRAWING NO. C15-E-103
SHEET NO. M1270-268	

LIGHTING LEGEND

TYPE L-1

LED DOWNLIGHT WITH REMOTE NON-DIMMING DRIVER  
(REFER TO SPEC 26 50 00)

TYPE L-2  
FIBER OPTIC LIGHTING SYSTEM  
(REFER TO SPEC 26 50 00)

ILLUMINATOR

FO-1 FITTING

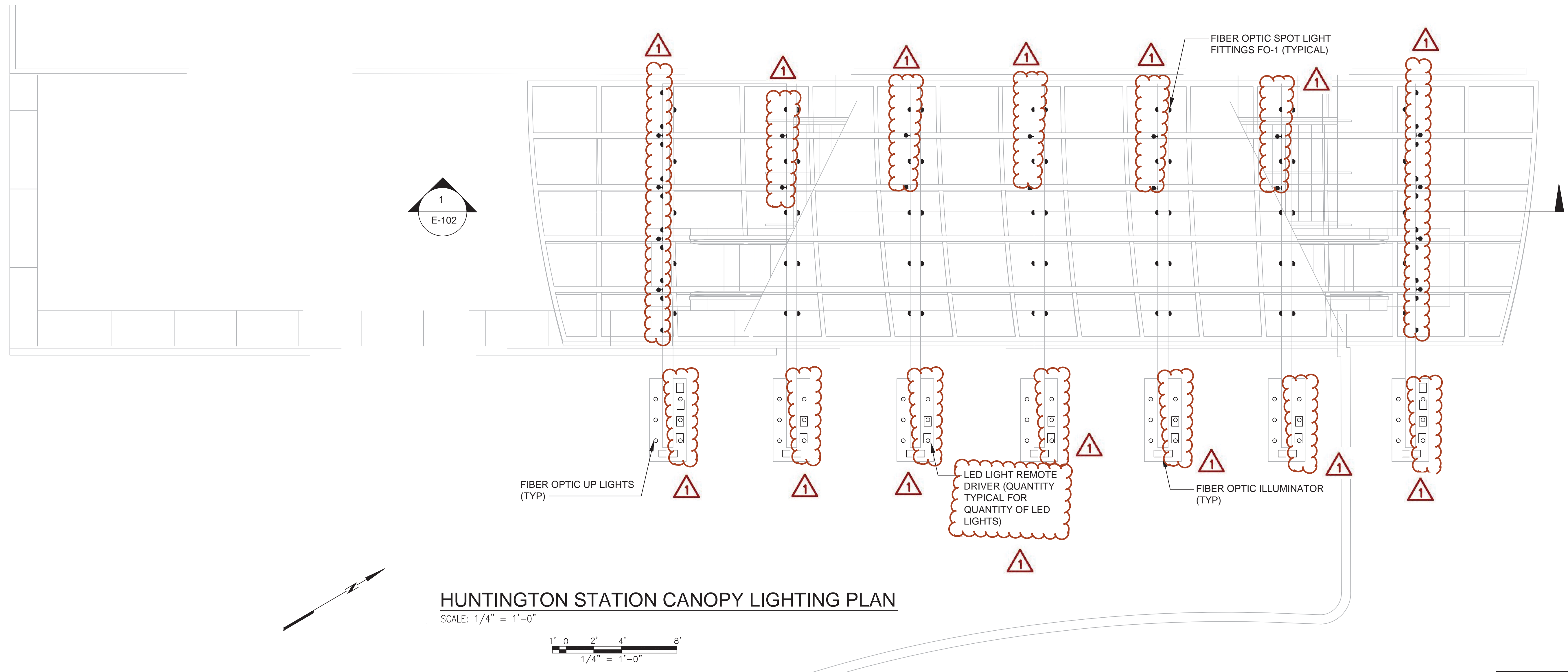
FIBER OPTIC UPLIGHT

LED LIGHT REMOTE DRIVER



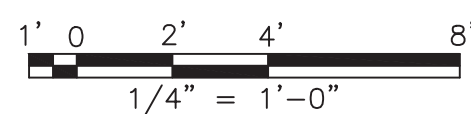
GENERAL NOTES:

1. A PLASTIC DEVICE BOX AS DESCRIBED IN SPEC 26 05 33.23 SHALL BE USED AT EACH LED LIGHT FIXTURE.
2. INSTALL A 120VAC TO EACH FIBER OPTIC ILLUMINATOR AT EACH COLUMN.
3. REFER TO SHEET C15-E-101 FOR MORE INFORMATION ON THE CONDUIT AND CONDUCTOR ROUTING AND LOCATIONS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.



HUNTINGTON STATION CANOPY LIGHTING PLAN

SCALE: 1/4" = 1'-0"



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DATE	BY	DESCRIPTION



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OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED

**GFP** A Gannett Fleming/Parsons  
JOINT VENTURE

SUBMITTED  
BRADLEY A. MASON  
PROJECT MANAGER

ESCALATOR CANOPIES  
HUNTINGTON STATION

CANOPY ELECTRICAL PLAN

SCALE	DRAWING NO.	SHEET NO.
AS SHOWN	C15-E-104	M1270-269

PANEL DESIGNATION		TYPE: GENERAL ELECTRIC			LOCATION: GARAGE ELECTRICAL ROOM LL5						
"SS2"		NUMBER OF POLES: 42			VOLTAGE: 208Y/120V, 3-PHASE, 4-WIRE						
		MAIN BUS RATING: 225			PANEL MOUNTING SURFACE						
		MAIN RATING: MLO			PANEL ENCLOSURE (NEMA): 1						
CIR. No.	CIR. BKR.	DESCRIPTION	LOAD - KVA			LOAD - KVA			DESCRIPTION	CIR. BKR.	CIR. No.
			AØ	BØ	CØ	AØ	BØ	CØ			
1	20/1	GATE#18	-	-	-	-	-	-	VENDOR #30	20/1	2
3	20/1	GATE#19	-	-	-	-	-	-	VENDOR #31	20/1	4
5	20/1	GATE#20	-	-	-	-	-	-	VENDOR #32	20/1	6
7	20/1	GATE#21	-	-	-	-	-	-	SPARE	20/1	8
9	20/1	GATE#22	-	-	-	-	-	-	ADD FARE #50	20/1	10
11	20/1	GATE#23	-	-	-	-	-	-	ADD FARE #51	20/1	12
13	20/1	BREAKER TURNED ON	-	-	-	-	-	-	34	20/1	14
15	20/1	BREAKER TURNED ON	-	-	-	-	-	-	SPARE (BREAKER OFF)	30/1	16
17	20/1	SMART CARD #1	-	-	-	-	-	-	SPARE (BREAKER OFF)	30/1	18
19	20/1	SMART CARD #2	-	-	-	-	-	-	SPARE (BREAKER OFF)	30/1	20
21	20/1	ATM	-	-	-	-	-	-	SPARE (BREAKER OFF)	30/1	22
23	20/1	SPARE (BREAKER OFF)	-	-	-	-	-	-	BREAKER TURNED ON	20/1	24
25	20/1	SPARE (BREAKER OFF)	-	-	-	-	-	-	BREAKER TURNED ON	30/1	26
27	20/1	SPARE (BREAKER OFF)	-	-	-	-	-	-	GATE	20/1	28
29	20/1	SPARE (BREAKER OFF)	-	-	-	-	-	-	CANOPY LIGHTING	20/1	30
31	20/1	SPARE (BREAKER OFF)	-	-	-	1.05	-	-	CANOPY LIGHTING	20/1	32
33	20/1	SPARE (BREAKER OFF)	-	-	-	-	-	-	SPARE (BREAKER OFF)	20/1	34
35	20/1	SPARE (BREAKER OFF)	-	-	-	-	-	-	SPARE (BREAKER OFF)	20/1	36
37	20/1	SPARE (BREAKER OFF)	-	-	-	-	-	-			38
39	20/1	SPARE (BREAKER OFF)	-	-	-	-	-	-	BREAKER TURNED ON	40/3	40
41	20/1	SPARE (BREAKER OFF)	-	-	-	-	-	-			42
SUBTOTAL			0.0	0.0	0.0	1.05	0.00	0.70	SUBTOTAL		

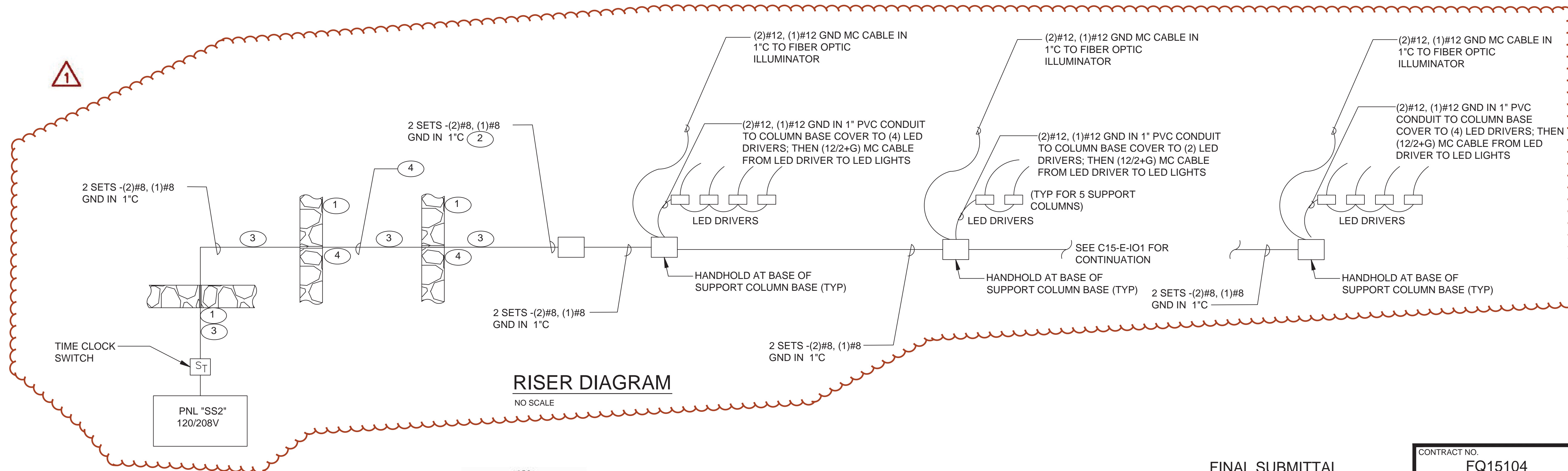
  

PANEL CONNECTED LOAD		X SOLID NEUTRAL BUS	
AØ	1.05	X EQUIPMENT GROUND BUS	
BØ	0.00		
CØ	0.70		
1.75 TOTAL			

\*\* USE EXISTING BREAKERS FOR CANOPY LIGHTS

NOTES:

- 1 CONCRETE/GRANITE WALL PENETRATION REQUIRED, SLEEVE AND SEAL AT OPENINGS.
- 2 ROUTE CONDUIT AND CONDUCTORS EXPOSED DOWN COLUMN TO NEW HANDHOLD.
- 3 ROUTE CONDUIT WITH CONDUCTORS PARALLEL TO EXISTING CONDUITS. CONCEAL WHERE POSSIBLE. INSTALL IN A SIMILAR MANNER TO EXISTING. MOUNTING HARDWARE SHALL BE STAINLESS STEEL.
- 4 WHERE PRACTICAL AND ALLOWED, INSTALLATION OF A CONDULET PREFERRED OVER JUNCTION BOX IN LOCATIONS VISIBLE TO PUBLIC. REFER TO OTHER DRAWINGS FOR INDICATED LOCATIONS.



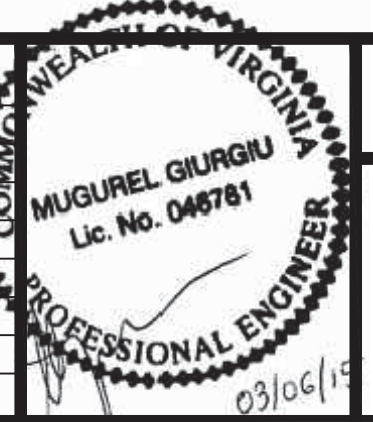
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NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION



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APPROVED \_\_\_\_\_  
SUBMITTED BRADLEY A. MASON PROJECT MANAGER

ESCALATOR CANOPIES HUNTINGTON STATION  
PANEL SCHEDULE AND RISER DIAGRAM  
SCALE AS SHOWN  
DRAWING NO. C15-E-105  
SHEET NO. M1270-270