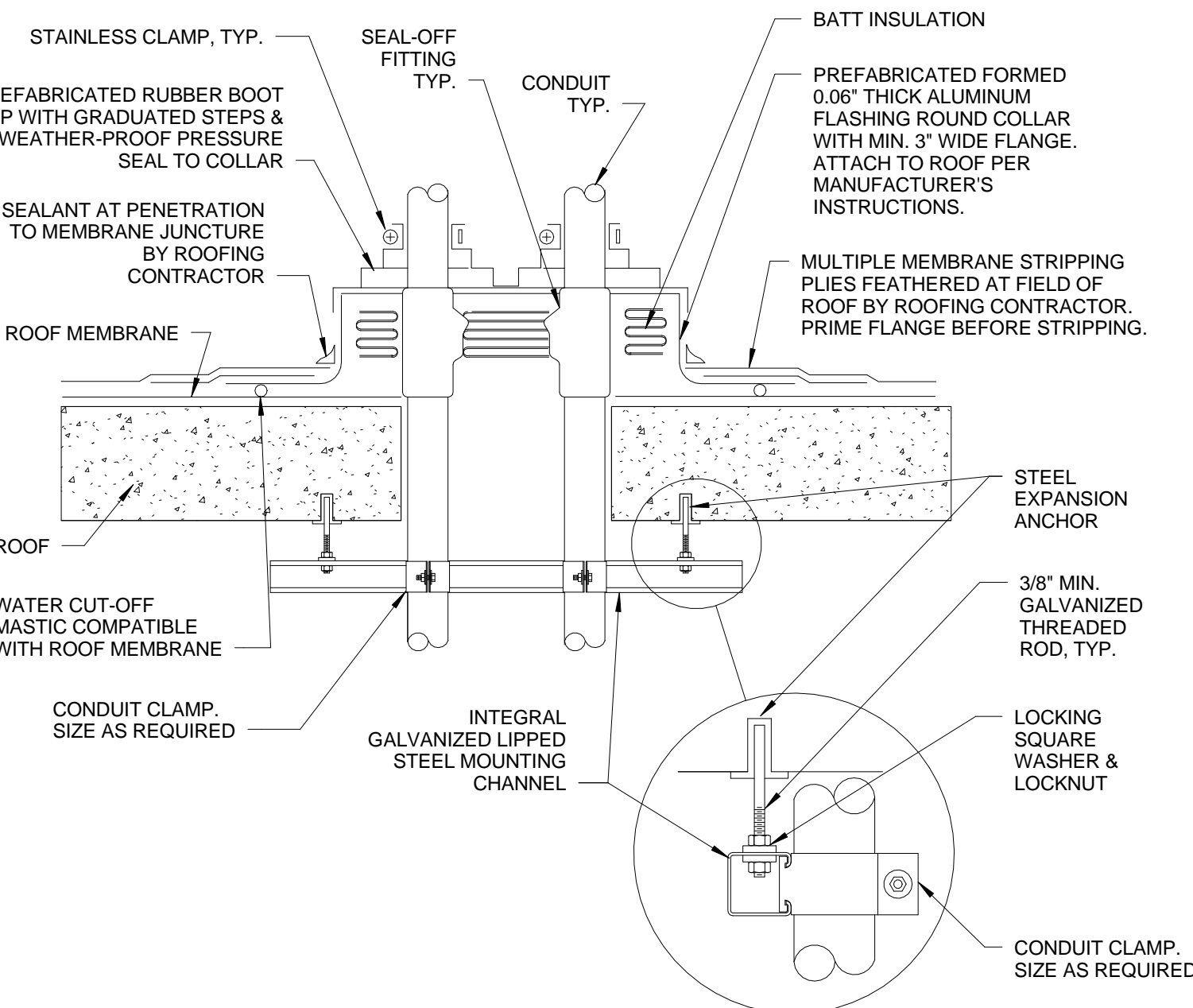


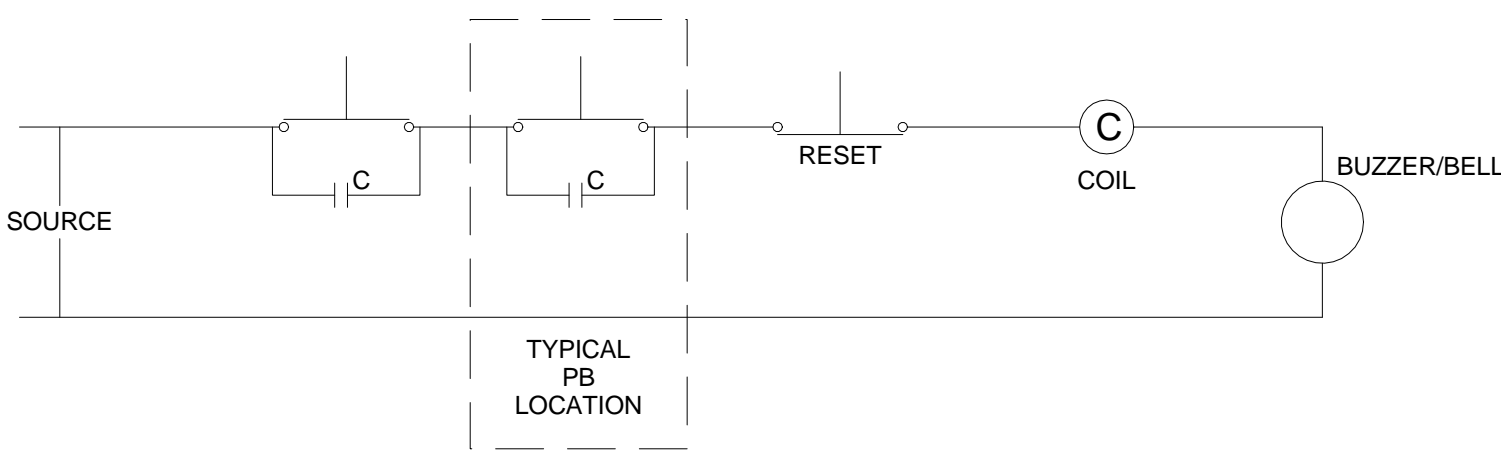
NOTE:
1. SEE SPECIFICATION SECTION 27 10 00
STRUCTURED CABLING-DATA/VOICE MEMO NO.
FITS-02.
2. USE YELLOW, BLUE AND WHITE JACKS.

10 COMMUNICATION OUTLET DETAIL
N.T.S.

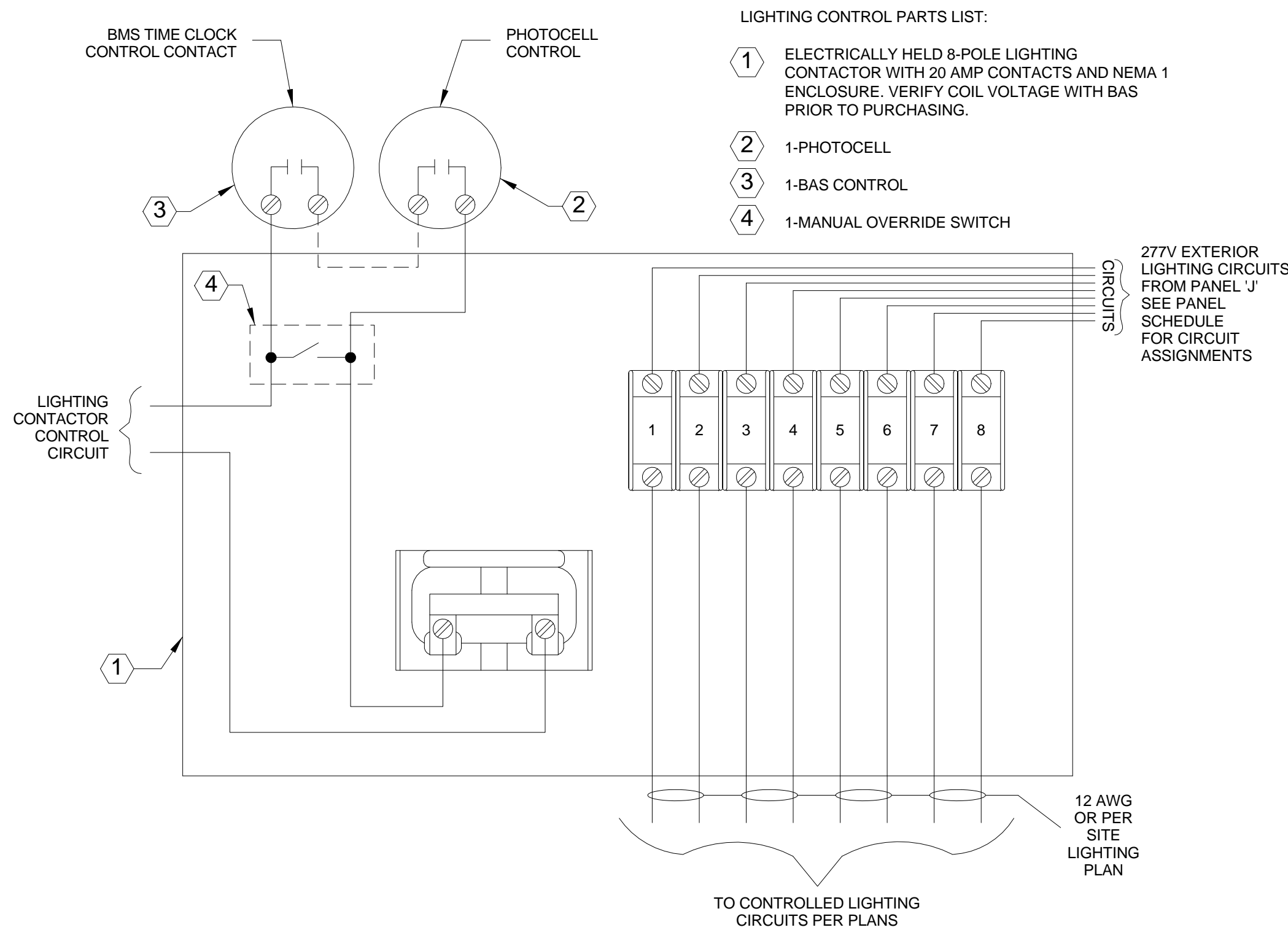


- GENERAL NOTES:
1. MAINTAIN A MINIMUM CLEARANCE OF 12" (308 mm) ON ALL SIDES OF ROOF PENETRATION FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.
 2. FLANGES OF ADJACENT FLASHING SHALL NOT BE CUT OR OVERLAPPED.
 3. VERIFY ROOF & STRUCTURAL SYSTEM WITH ARCHITECT.
 4. COORDINATE FLASHING INSTALLATION WITH ROOFING CONTRACTOR TO ENSURE PROPER METHODS & MATERIALS ARE USED TO MAINTAIN ROOF WARRANTY.

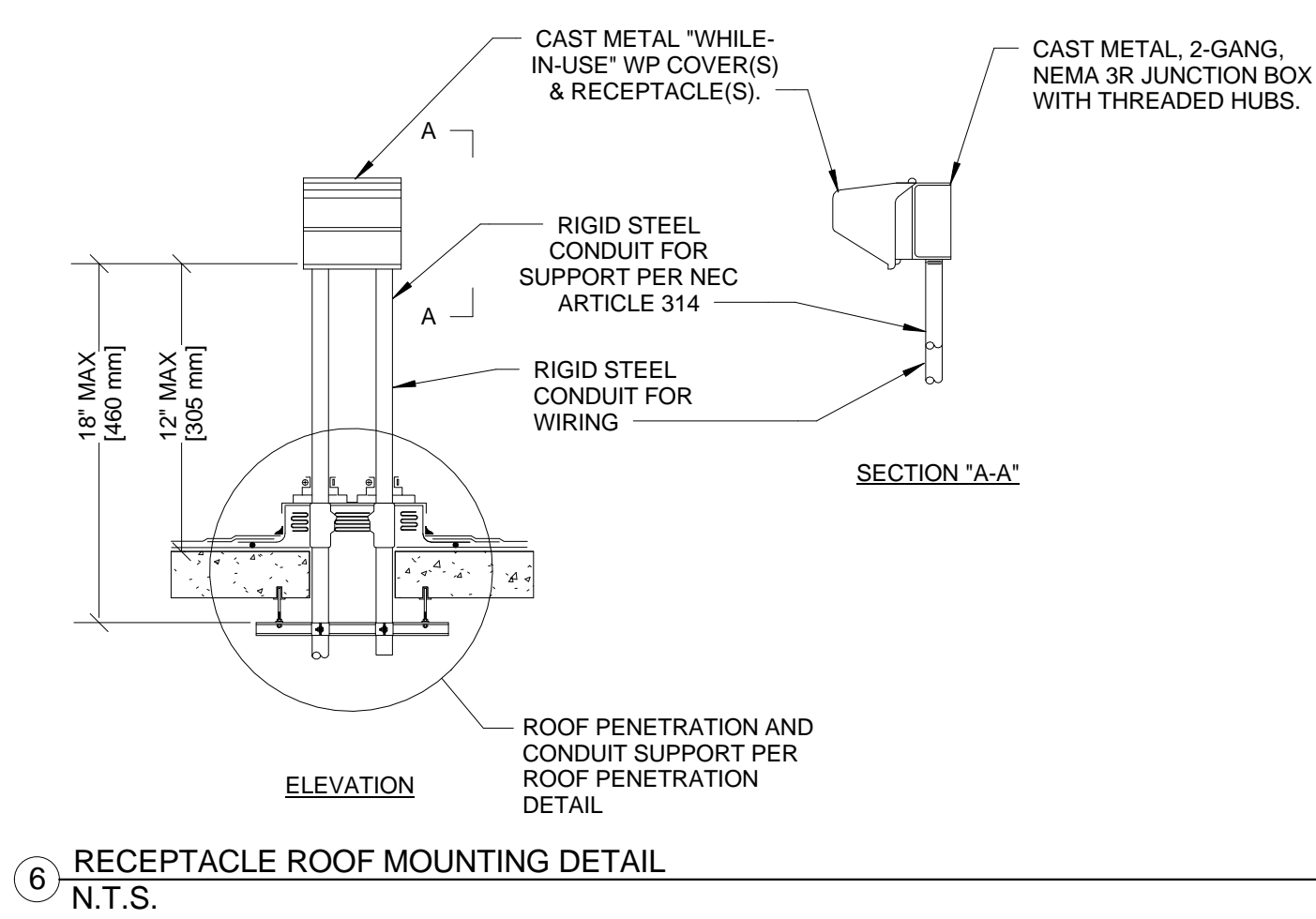
7 ROOF PENETRATION DETAIL
N.T.S.



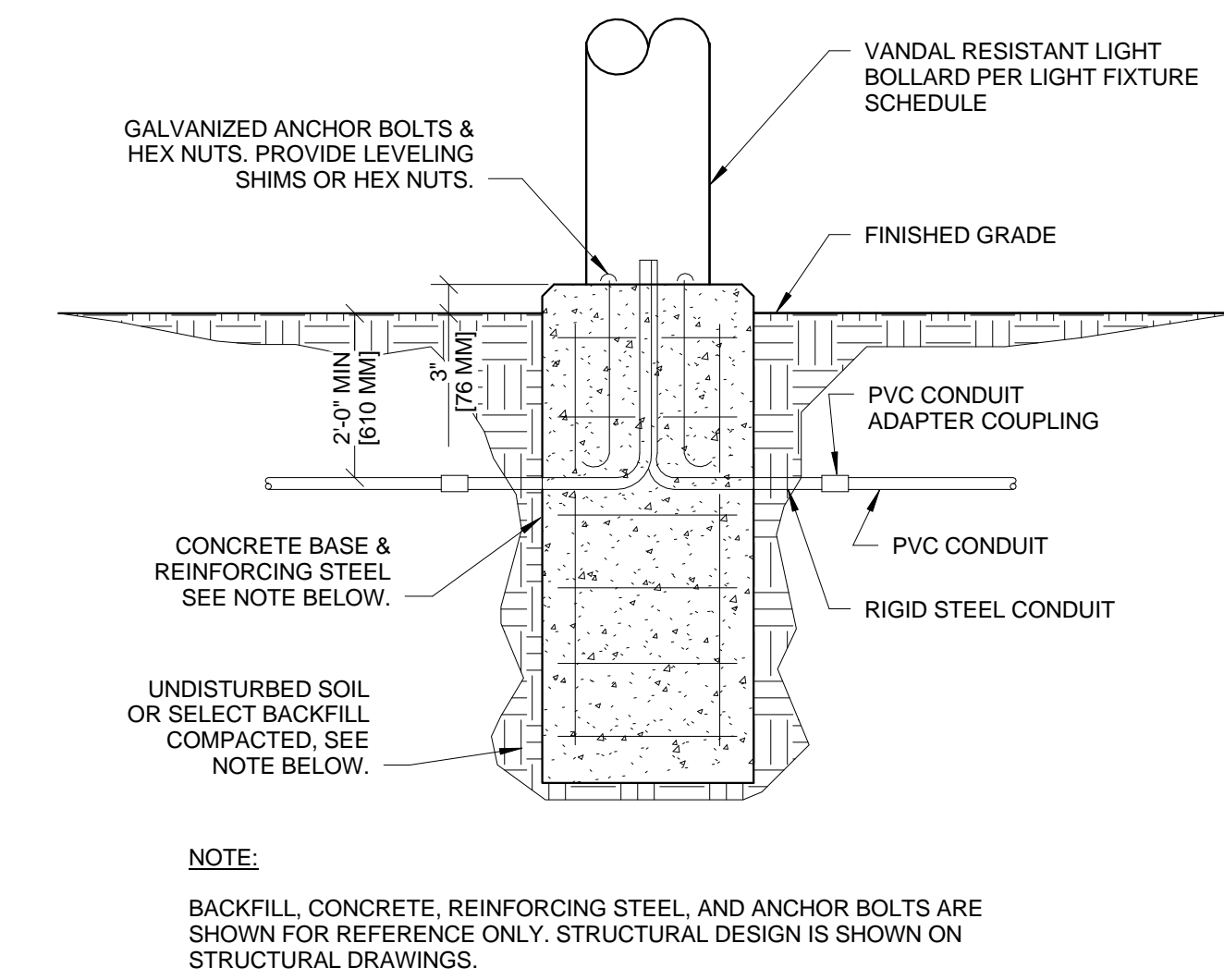
8 PANIC BUTTON DETAIL
N.T.S.



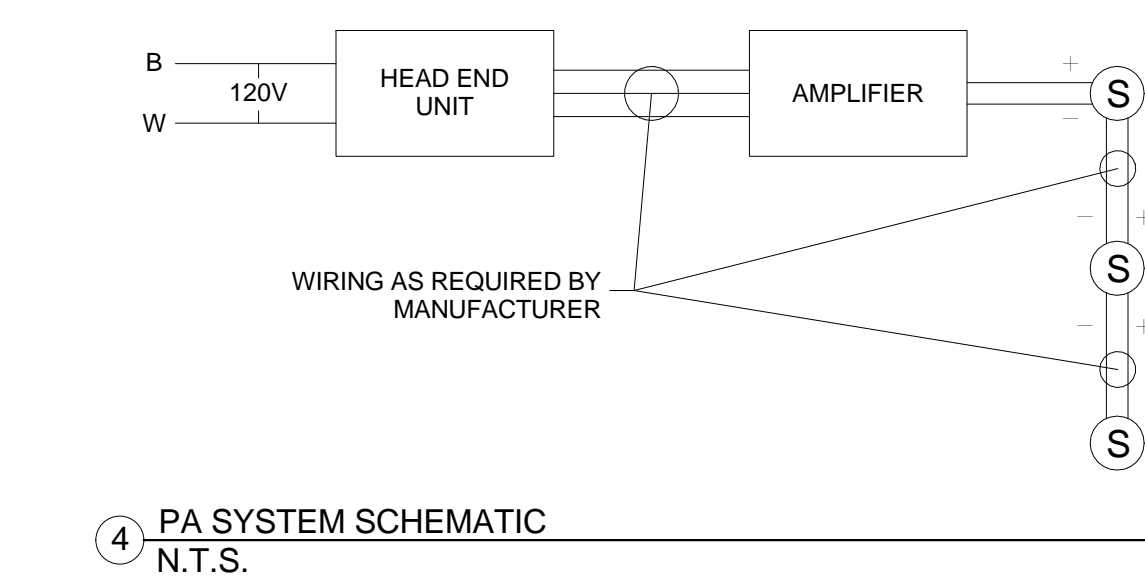
9 LIGHTING CONTACTOR DETAIL
N.T.S.



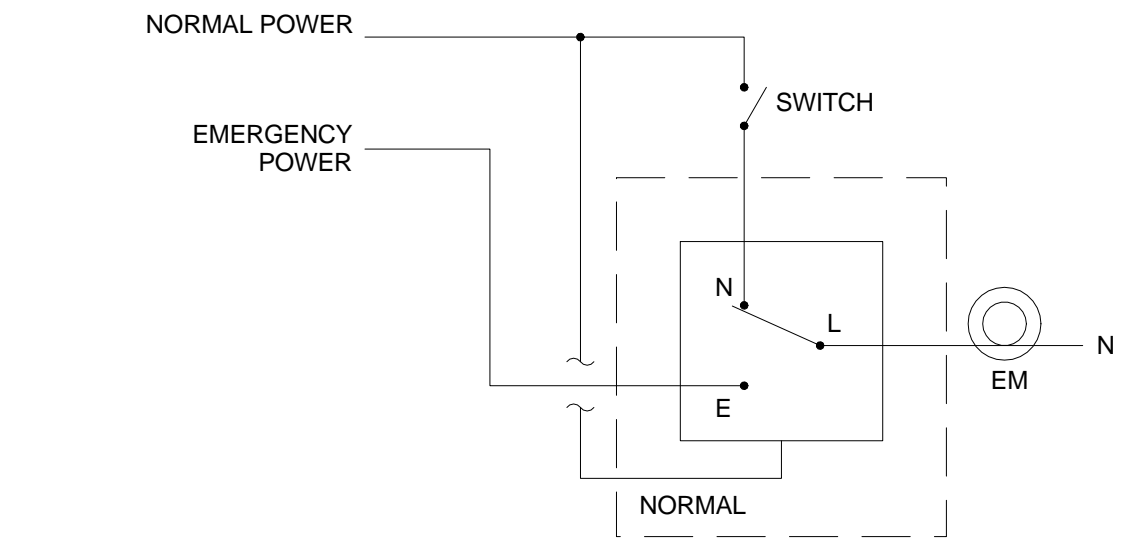
6 RECEPTACLE ROOF MOUNTING DETAIL
N.T.S.



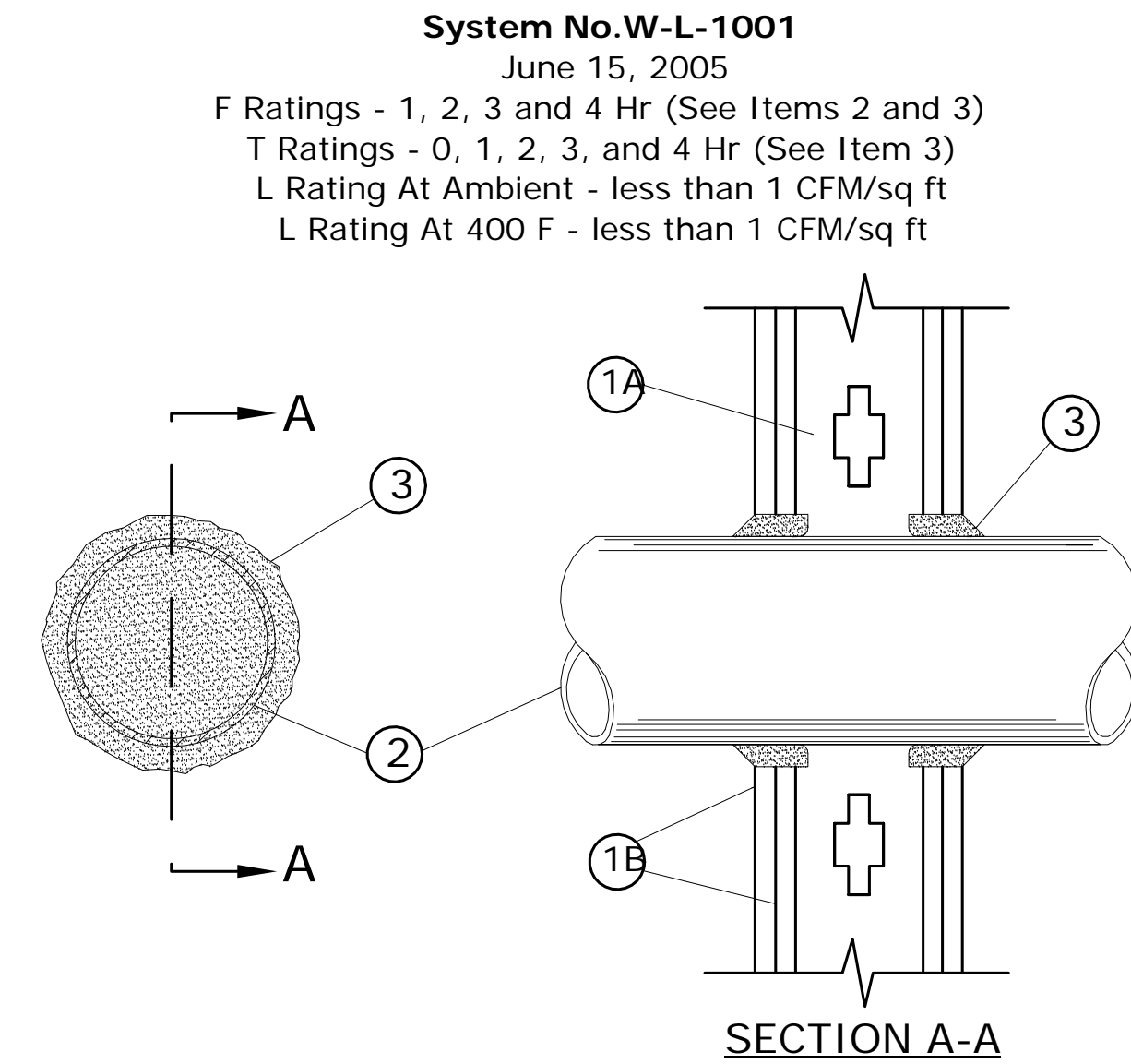
5 BOLLARD BASE DETAIL
N.T.S.



4 PA SYSTEM SCHEMATIC
N.T.S.



3 EMERGENCY LIGHTING CONTROL DETAIL
N.T.S.



1. Wall Assembly - The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

- A. Studs - Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
B. Gypsum Board - Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

2. Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. Steel Pipe - Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe - Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
C. Conduit - Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing
D. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing
E. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
F. Through Penetrating Product* - Flexible Metal Piping - The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

TITEFLEX CORP

A BUNDY CO

3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG INC

3. Fill, Void or Cavity Material* - Caulk or Sealant - Min 5/8, 1-1/4, 1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3, and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

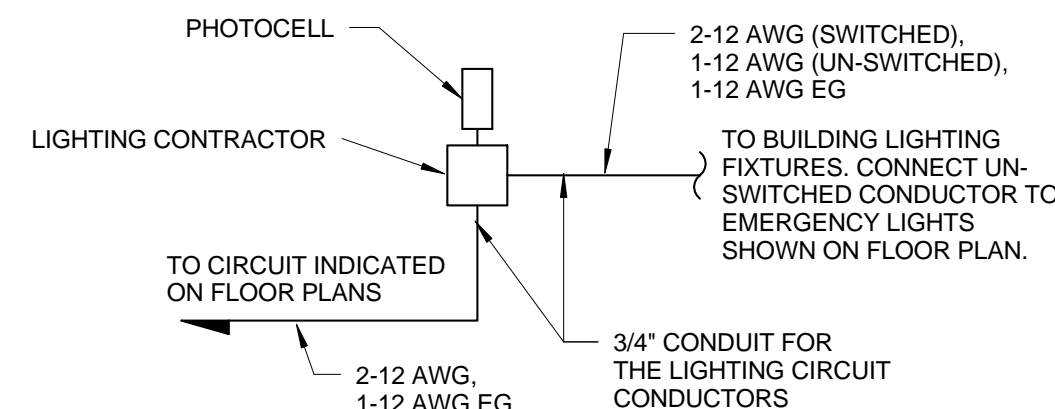
| Max Pipe or Conduit Diam in. (mm) | F Rating Hr | T Rating Hr |
|-----------------------------------|-------------|-------------|
| 1 (25) | 1 or 2 | 0+ 1 or 2 |
| 1 (25) | 3 or 4 | 3 or 4 |
| 4 (102) | 1 or 2 | 0 |
| 6 (152) | 3 or 4 | 0 |
| 12 (305) | 1 or 2 | 0 |

*When copper pipe is used, T Rating is 0 hr.

3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant.

*Bearing the UL Classification Marking

2 CONDUIT PENETRATION THROUGH GYPSUM ASSEMBLY (UL #W-L-1001)
N.T.S.



1 EXTERIOR LIGHTING CONTROL DETAIL
N.T.S.

FULLY SPRINKLERED
ISSUED FOR BID

| CONSULTANTS: | | | | | | | | | | PROJECT MANAGER: | Project Number | Scale | Drawing Title | Project Title | VA Project Number | Office of Facilities Management | |
|---|---|---|--|--|---|---|---|--|--|------------------------|----------------|--------------|--------------------|----------------------|-------------------|---------------------------------------|--|
| Project Manager | Architect | Structural Engineer | MEP/FP Engineer | Civil Engineer | Fire Protection Consultant | Cost Estimator | Aquatic Consultant | | | Bray Mooney Consulting | 3627 | As indicated | ELECTRICAL DETAILS | RENOVATE BUILDING 69 | 542-CSI-203 | | |
| BRAY MOONEY CONSULTING | ARRAY HEALTHCARE FACILITIES SOLUTIONS | WZG, STRUCTURAL CONSULTING ENGINEERS | APOGEE CONSULTING GROUP | GUIDON DESIGN | HARRINGTON GROUP | BRAY MOONEY CONSULTING | ATLANTIC AQUATIC ENGINEERING | | | | | | | | | | |
| 410 E. 21 STREET CHESTER, PA 19013 Tel (610) 872-3716 | 2530 RENAISSANCE BLVD., SUITE 110 KING OF PRUSSIA, PA 19406 Tel (610) 270-0599 | 180 W. RIDGE PIKE LIMERICK, PA 19469 Tel (214) 329-5559 | 7330 CHAPEL HILL ROAD, SUITE 202 RALEIGH, NC 27606 Tel (919) 859-7420 | 2453 N DELAWARE STREET INDIANAPOLIS, IN 46205 Tel (317) 800-6386 | 7508 E. INDEPENDENCE BLVD., SUITE 116 CHARLOTTE, NC 28277 Tel (704) 531-9577 | 410 E. 21 STREET CHESTER, PA 19013 Tel (610) 872-3716 | 1823 DEEP RUN ROAD PIPERSVILLE, PA 18947 Tel (215) 766-0409 | | | | | | | | | Department of Veterans Affairs | |
| Revisions | Date | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |