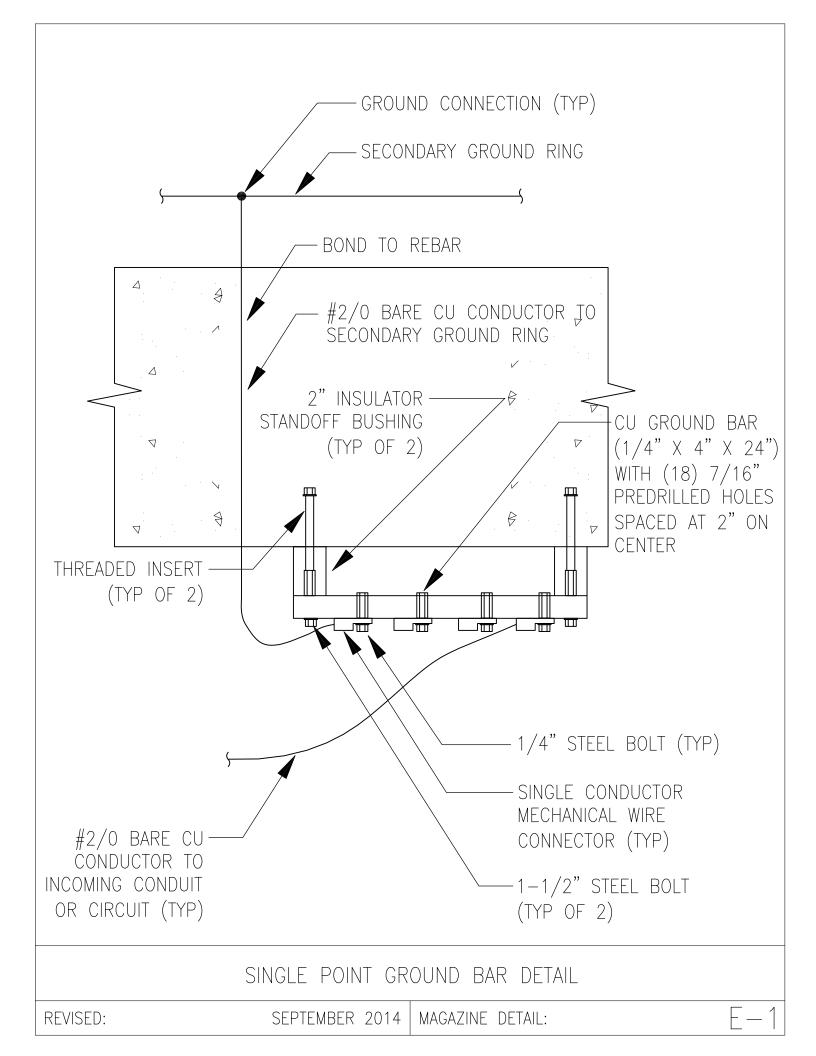
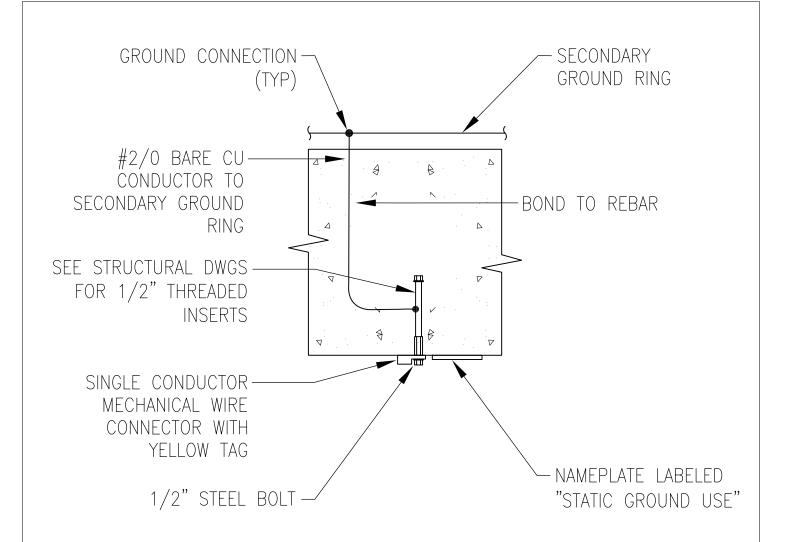
ELECTRICAL BONDING

- 1. ALL STEEL DOORS AND FRAMES SHALL BE ELECTRICALLY BONDED TO THE MAGAZINE REBAR CAGE.
- 2. ALL STRUCTURAL AND MISCELLANEOUS ITEMS EMBEDDED IN CONCRETE SHALL BE ELECTRICALLY BONDED TO THE REBAR CAGE BY METALLIC WIRE TIES, BRAZING OR WELDING.
- 3. THE REBAR CAGE SHALL BE MADE ELECTRICALLY CONTINUOUS BY BONDING INDIVIDUAL REINFORCING BARS USING METALLIC WIRE TIES, BRAZING OR WELDING AT A MAXIMUM OF 5'-0" IN ANY DIRECTION.
- 4. ALL WALL AND CONSTRUCTION JOINTS SHALL BE ELECTRICALLY BONDED. SEE THE ELECTRICAL DRAWINGS FOR DETAILS.

BONDING DETAILS





STATIC GROUND INSERT DETAIL NOTES:

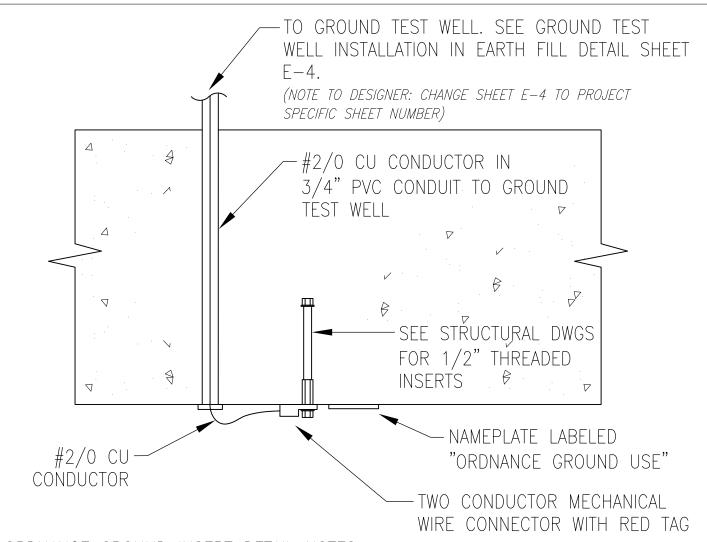
1. PROVIDE A REMOVABLE YELLOW MELAMINE PLASTIC TAG THAT ATTACHES TO THE STATIC GROUND INSERT. THE TAG SHALL INCLUDE THE FOLLOWING INFORMATION:

"NOT IN SERVICE. NO MAINTENANCE REQUIRED.

INSTALLATION MEETS STATIC/FACILITY GROUND REQUIREMENT PER NAVSEA OP-5. ACTIVITY SHALL PERFORM TESTING PER NAVSEA OP-5 AND ENACT MAINTENANCE SCHEDULE WHEN THE STATIC/FACILITY GROUND INSERT IS PLACED IN SERVICE.

RETAIN THIS TAG TO REATTACH WHEN REMOVED FROM SERVICE."

	STATIC GROUND INSER	RT DETAIL
REVISED:	DECEMBER 2009 MAGAZIN	NE DETAIL: $F-2$



ORDNANCE GROUND INSERT DETAIL NOTES:

1. PROVIDE A REMOVABLE RED MELAMINE PLASTIC TAG THAT ATTACHES TO THE ORDNANCE GROUND INSERT. THE TAG SHALL INCLUDE THE FOLLOWING INFORMATION:

"NOT IN SERVICE. NO MAINTENANCE REQUIRED.

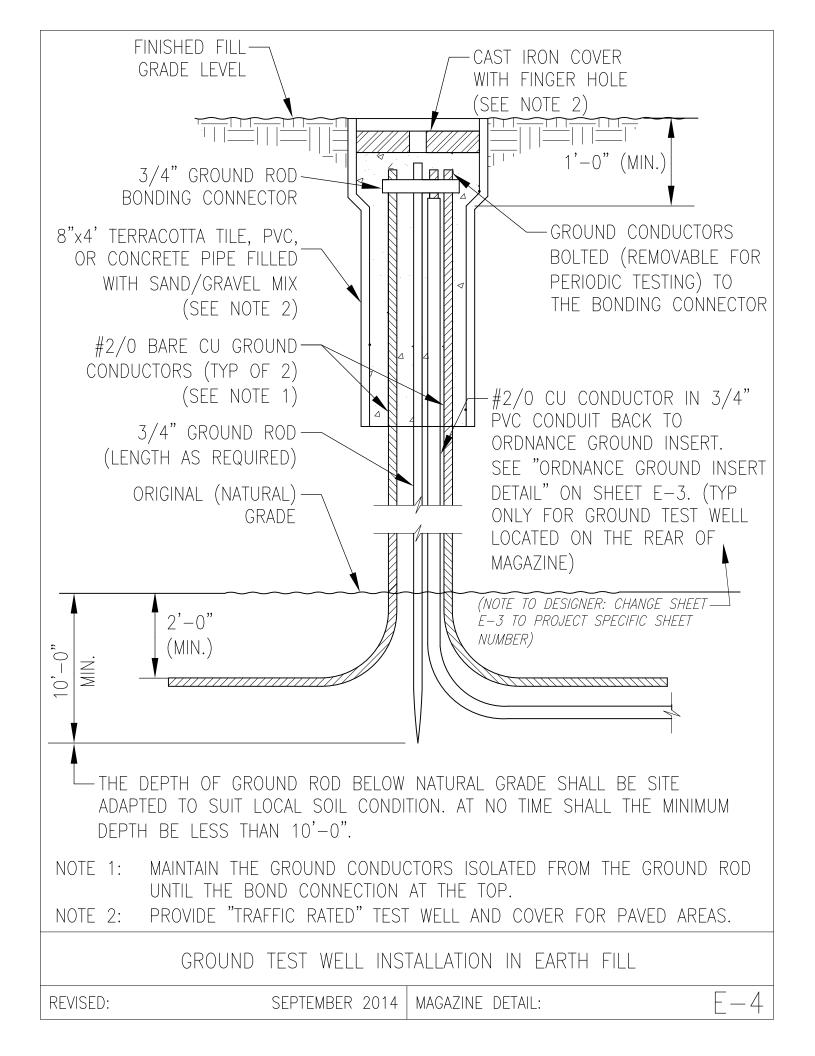
INSTALLATION MEETS ORDNANCE GROUND REQUIREMENT PER NAVSEA OP-5.
ACTIVITY SHALL PERFORM TESTING PER NAVSEA OP-5 AND ENACT MAINTENANCE SCHEDULE WHEN THE ORDNANCE GROUND INSERT IS PLACED IN SERVICE.

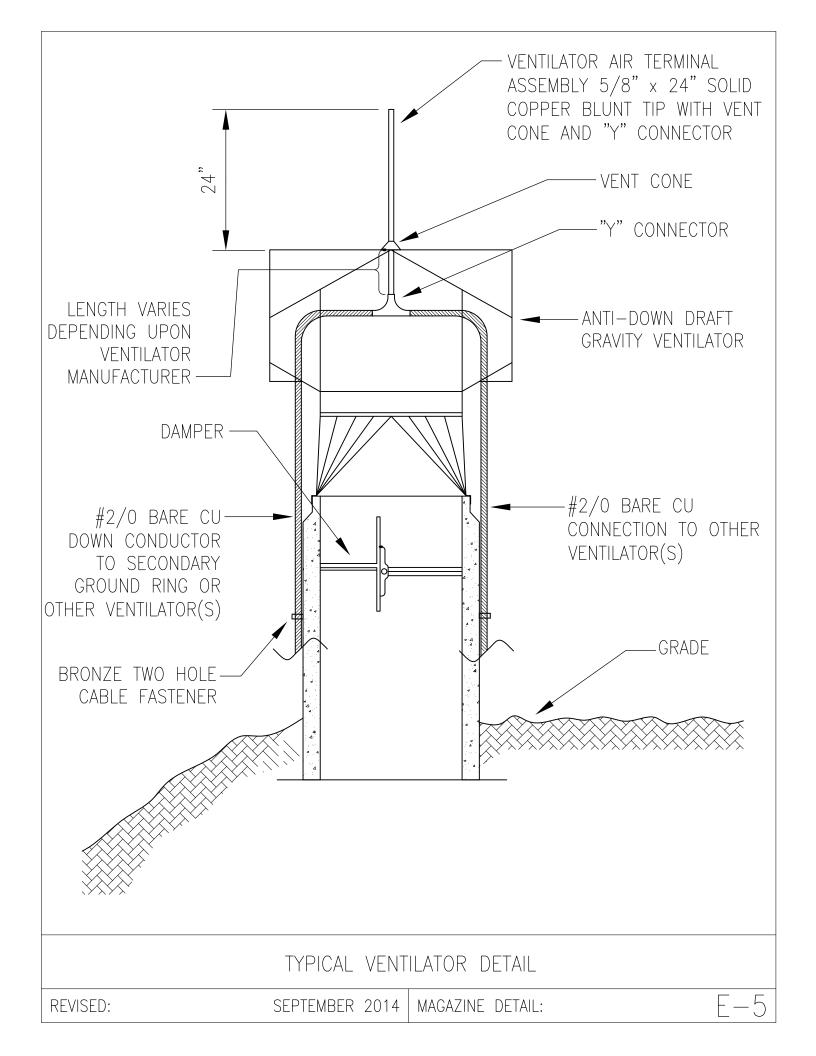
RETAIN THIS TAG TO REATTACH WHEN REMOVED FROM SERVICE."

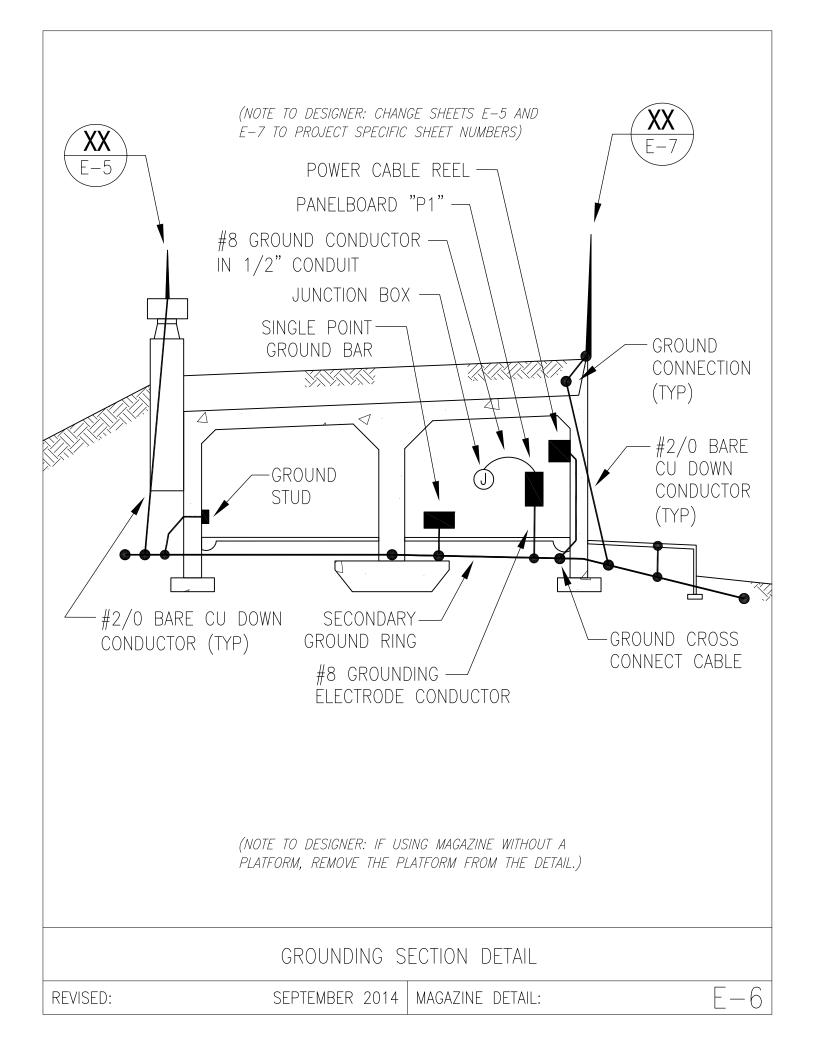
2. MAINTAIN THREADED INSERT ISOLATION. DO NOT ALLOW THE THREADED INSERT TO TOUCH REBAR OR OTHER METALLIC OBJECTS IN THE WALL.

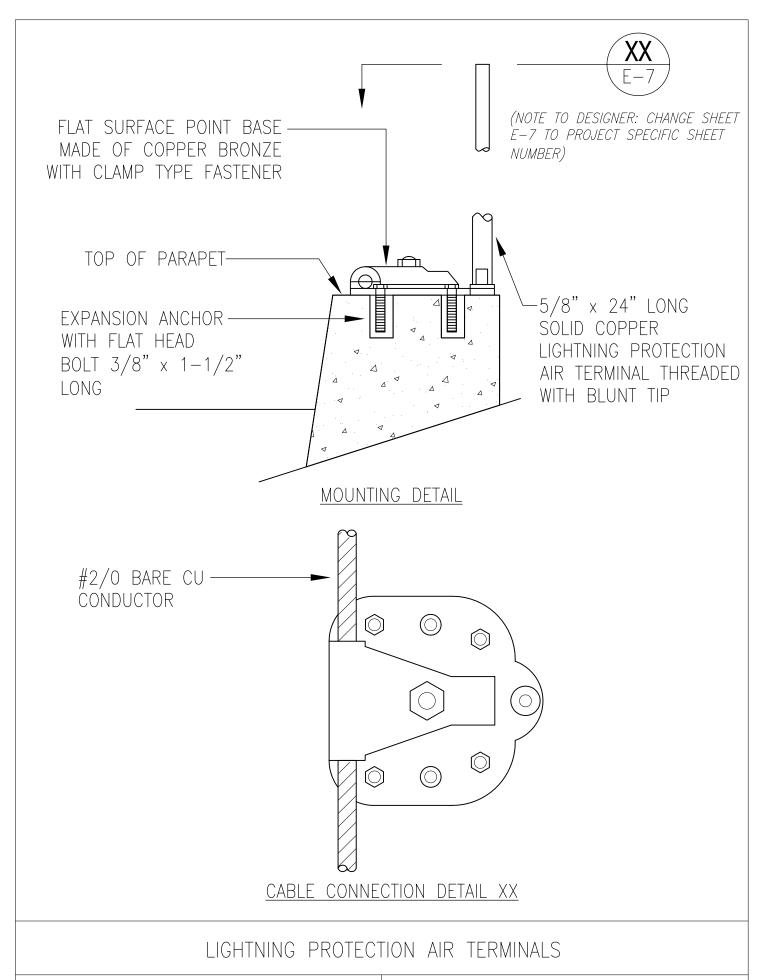
ORDNANC	CE GROUND	INSERT	DETAIL

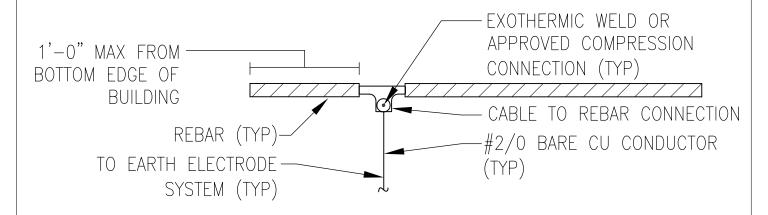
REVISED: SEPTEMBER 2014 MAGAZINE DETAIL:



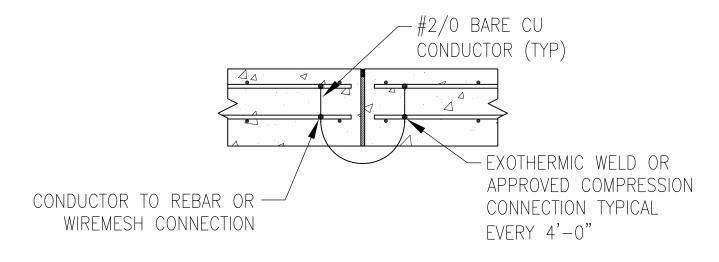








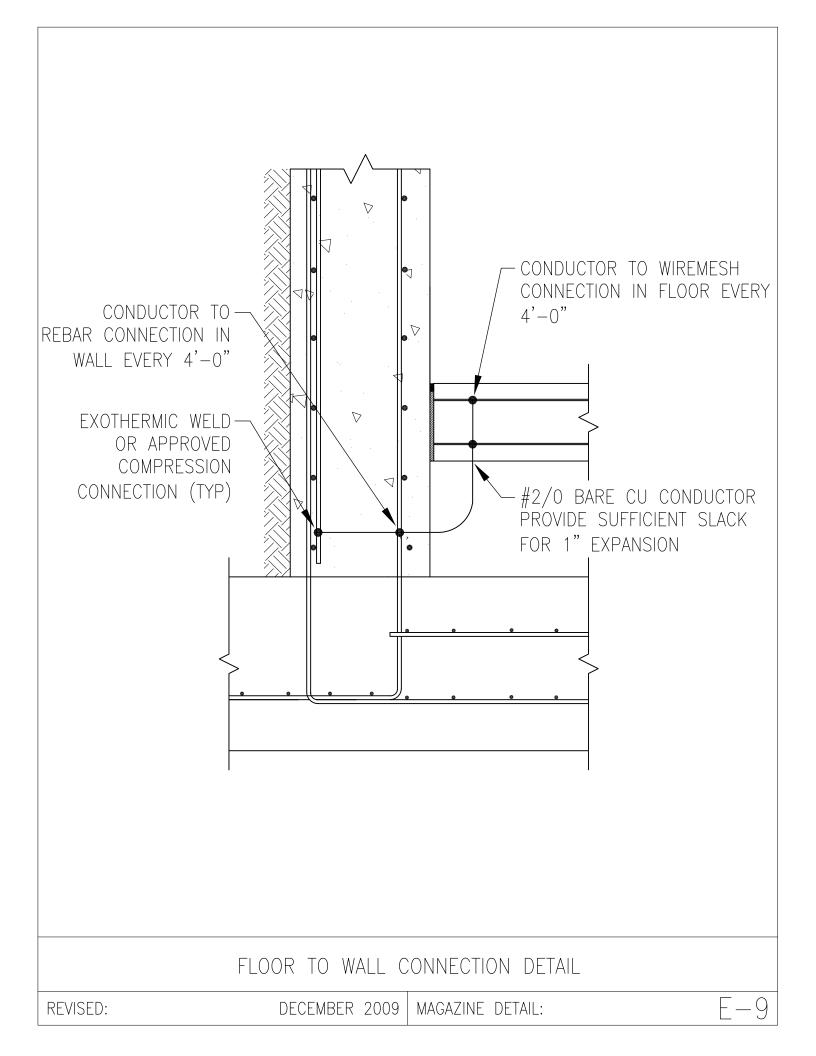
GROUNDING REINFORCING STEEL

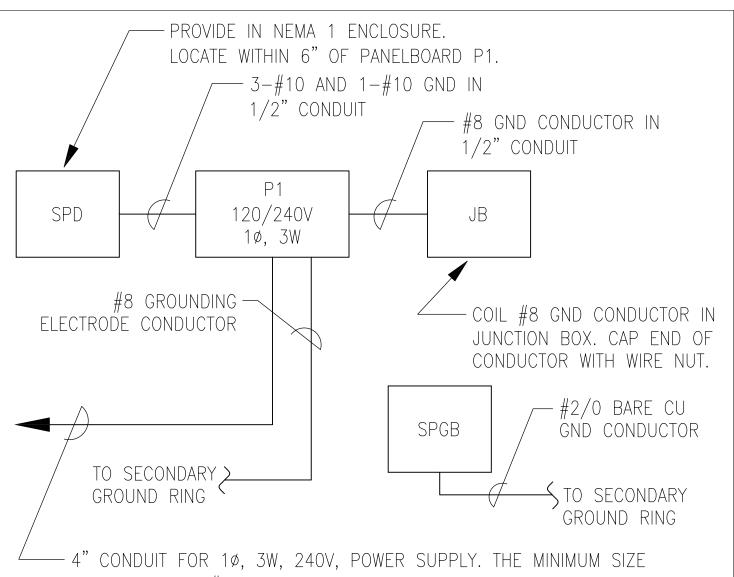


TYPICAL BOND CONNECTION AT EACH CONSTRUCTION JOINT

NOTE 1: ALL REINFORCING STEEL IN BUILDING AND PLATFORM IN FRONT OF MAGAZINE SHALL BE BONDED WITH #2/0 BARE COPPER CONDUCTORS TO EARTH ELECTRODE SYSTEM (SECONDARY GROUND RING).

	STRUCTURAL GROUNDING DETAILS	
RFVISFD:	SEPTEMBER 2014 MAGAZINE DETAIL:	F_8





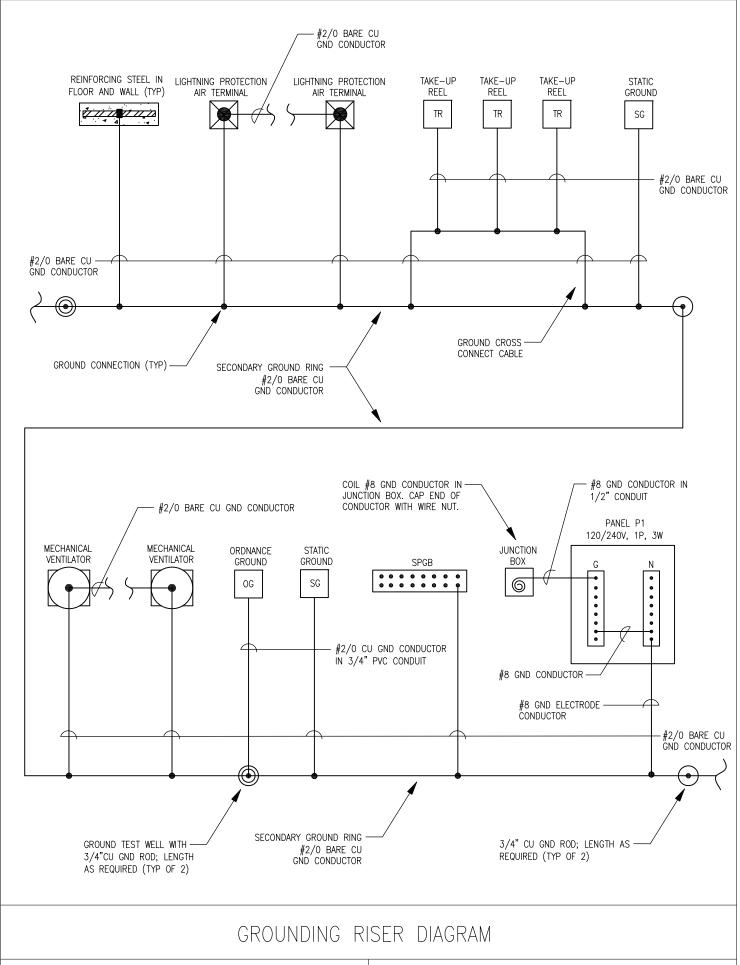
WIRE SHALL BE #2 IF THE DISTANCE FROM PANELBOARD PI TO THE SITE SOURCE OF POWER IS NO MORE THAN 150 FT. WIRE SIZES FOR DISTANCES OF MORE THAN 150 FT SHALL BE SITE ADAPTED.

NOTE 1: THREE FEET WORKING CLEARANCE MUST BE MAINTAINED FOR THE PANELBOARD PER NFPA 70. WHERE MAXIMUM STORAGE SPACE IN THE MAGAZINE IS CRITICAL, PANELBOARD AND SURGE PROTECTIVE DEVICES (SPD) MAY BE LOCATED ON EXTERIOR OF MAGAZINE. COORDINATE WITH ACTIVITY, AND MODIFY DRAWINGS AND PANELBOARD ENCLOSURE ACCORDINGLY.

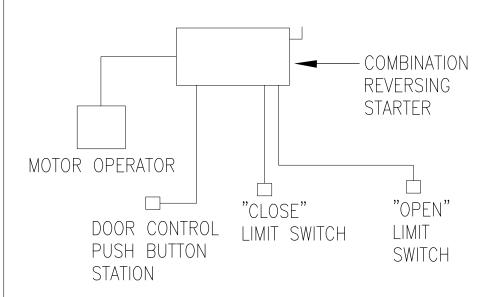
NOTE 2: SINGLE PHASE SYSTEMS IDENTIFIED WILL BE APPROPRIATE FOR MOST MAGAZINES. IF LARGER DOOR MOTORS ARE USED, DESIGNER SHOULD DETERMINE IF MORE EXPENSIVE, THREE PHASE SYSTEM WOULD BE MORE APPROPRIATE AND MODIFY RISER AND DRAWINGS ACCORDINGLY.

POWER RISER DIAGRAM (WITH SPD AND SPGB)

REVISED: SEPTEMBER 2014 | MAGAZINE DETAIL: = 10



SEPTEMBER 2014 MAGAZINE DETAIL:

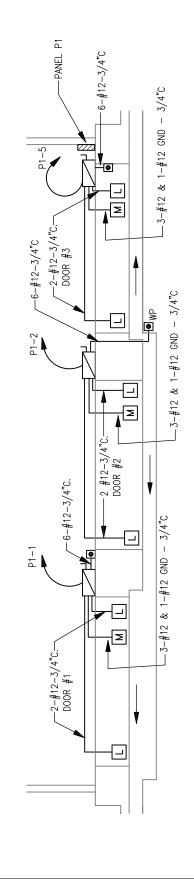


TYPICAL FOR DOOR #1, DOOR #2, AND DOOR #3

<u>SLIDING DOOR WIRING</u> INSTALLATION DIAGRAM NOTES

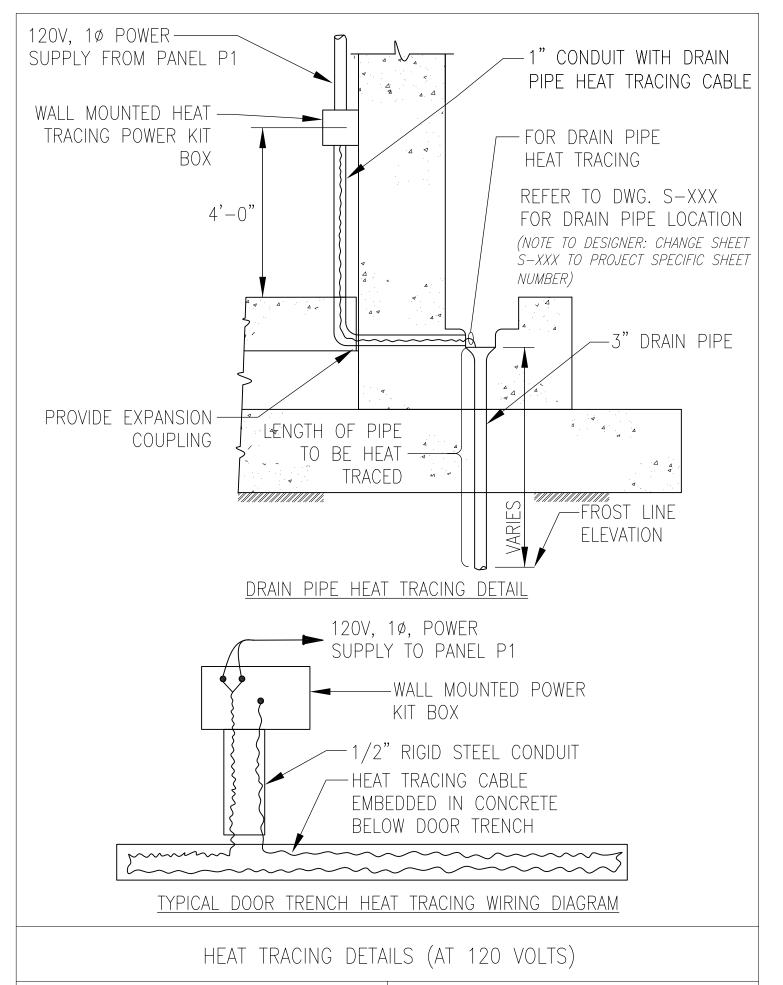
- 1. DESIGN USES 240V SINGLE PHASE POWER FOR THE MOTOR.
- 2. INCLUDE OPEN AND CLOSE LIMIT SWITCHES TO TURN OFF MOTOR IN THE MOTOR CONTROL CIRCUIT.
- 3. DOOR CONTROL PUSHBUTTON STATION
 SHALL BE MOUNTED 48" ABOVE PLATFORM.
 ROUTE CIRCUIT CONCEALED OUTSIDE OF
 THE MAGAZINE BACK TO THE COMBINATION
 REVERSING STARTER VIA THE SERVICE
 ENTRANCE PENETRATIONS.
- 4. THE EXACT LOCATION OF DOOR OPERATOR
 AND LIMIT SWITCHES SHALL BE IN ACCORDANCE
 WITH DOOR MANUFACTURER'S REQUIREMENTS.

(NOTE TO DESIGNER: MODIFY DIAGRAMS TO REFLECT ACTUAL PROJECT REQUIREMENTS.)



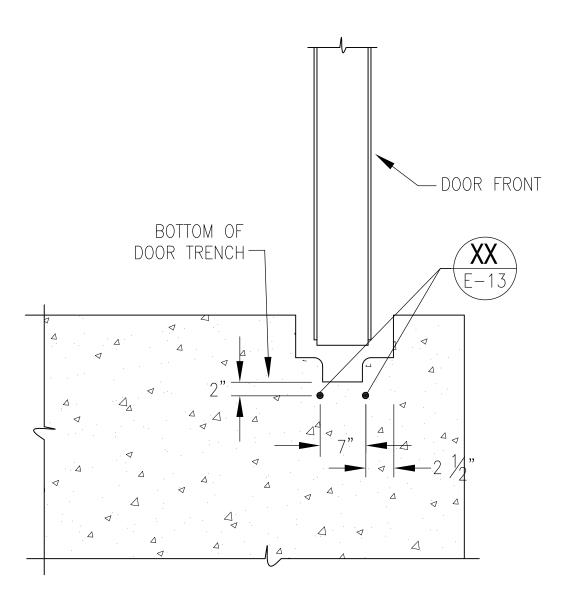
SLIDING DOOR WIRING INSTALLATION DIAGRAM (SINGLE PHASE TYPES)

REVISED: SEPTEMBER 2014 | MAGAZINE DETAIL: E-12

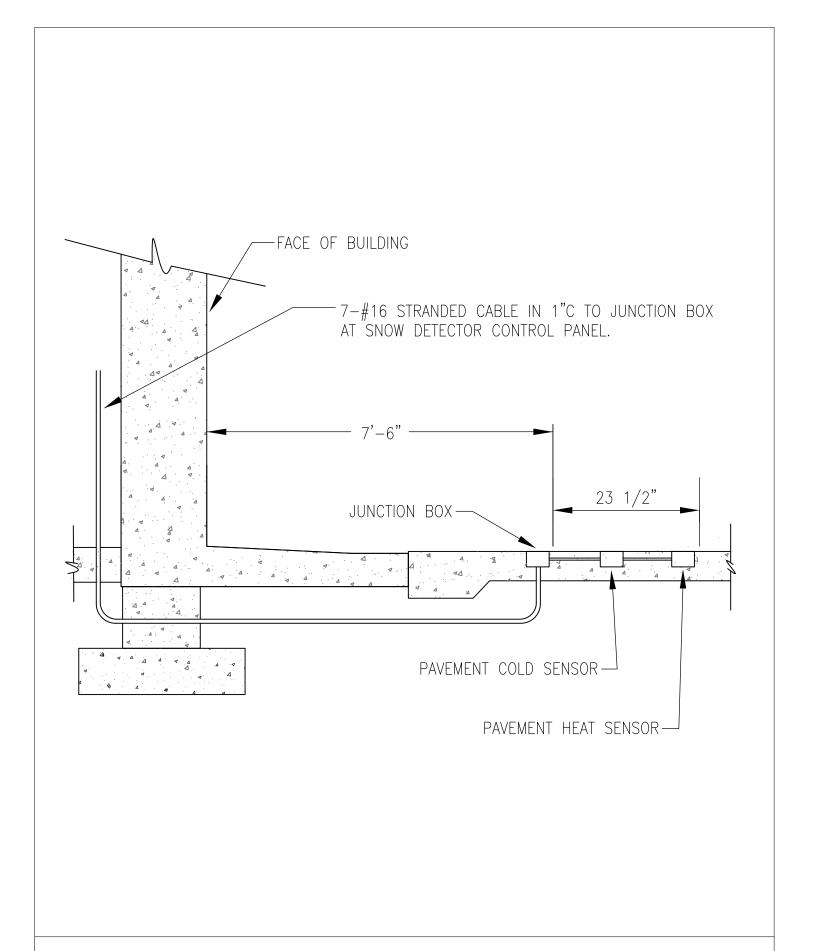


REVISED: SEPTEMBER 2014 MAGAZINE DETAIL: E-13

(NOTE TO DESIGNER: CHANGE SHEET E-13 TO PROJECT SPECIFIC SHEET NUMBER)

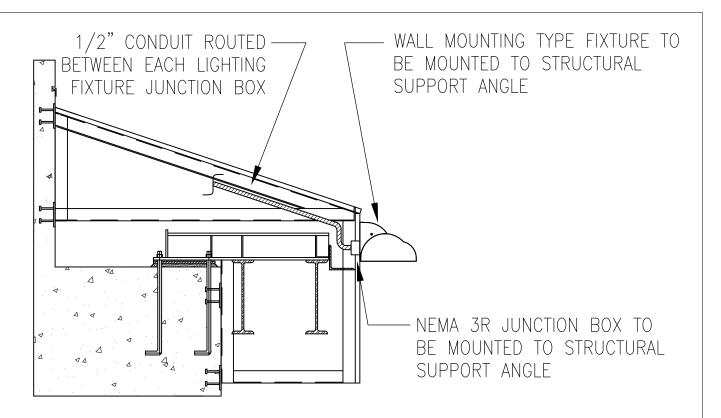


HEAT TRACING CABLE DETAIL

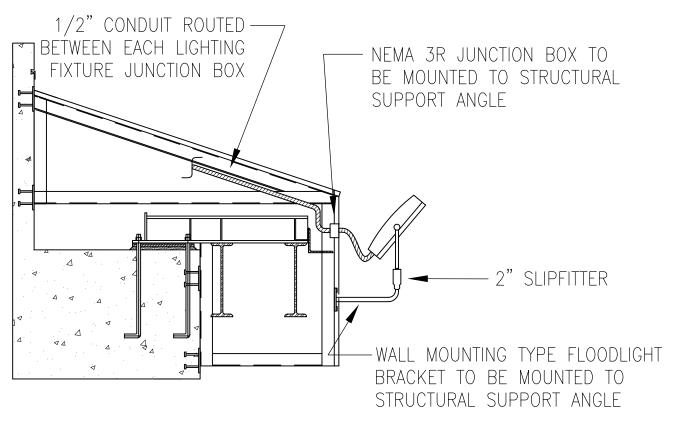


SNOW	DETECTION	LOCATION	DFTAIL
\bigcirc 110 VV			

REVISED: SEPTEMBER 2014 MAGAZINE DETAIL: E-15



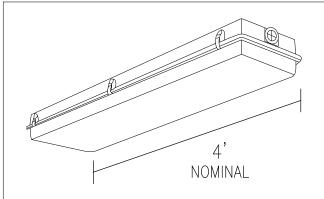
SECURITY LIGHTING MOUNTING DETAIL

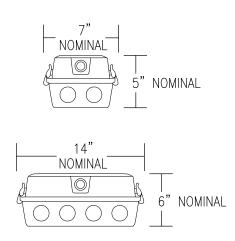


FLOOD LIGHTING MOUNTING DETAIL

LIGHTING MOUNTING DETAILS

revised: september 2014 | magazine detail: E-16





LUMINAIRE REQUIREMENTS:

- 1. HOUSING ONE-PIECE, IMPACT-RESISTANT, FIBERGLASS REINFORCED POLYESTER WITH ENCLOSED COLD-ROLLED STEEL WIREWAY.
- 2. FINISH STEEL REFLECTOR WITH MULTI—STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH REFLECTANCE (MINIMUM 85%), BAKED WHITE ENAMEL FINISH.
- 3. LENS 100% CLEAR ACRYLIC/DR OPTICAL DIFFUSER. STIPPLED INTERIOR SURFACES AND SMOOTH EXTERIOR. CLOSED CELL NEOPRENE GASKET WITH STAINLESS STEEL CAM ACTION LATCHES TO SECURE LENS TO HOUSING.
- 4. LAMPS LINEAR FLUORESCENT T8, TYPICALLY WITH WATTAGES AS INDICATED. SEE LIGHTING FIXTURE SCHEDULE.
- 5. BALLAST CLASS P, THERMALLY—PROTECTED, HIGH POWER FACTOR (≥ .95), ELECTRONIC TYPE WITH SOUND RATING A. SEE SPECIFICATION OR LIGHTING FIXTURE SCHEDULE FOR BALLAST OPTIONS AND SPECIFICS.
- 6. CERTIFICATION UL LISTED AND LABELED. SUITABLE FOR DAMP OR WET LOCATION AS DESIGNATED IN LIGHTING FIXTURE SCHEDULE.
- 7. PHOTOMETRICS MINIMUM VALUE OF COEFFICIENT OF UTILIZATION (CU) AND EFFICIENCY, GIVEN INTERIOR CAVITY REFLECTANCES OF 80-50-20:

2 LAMP (F32/T8)

RCR	CU
1	78
2	67
3	58
4	51

EFFICIENCY - 76%

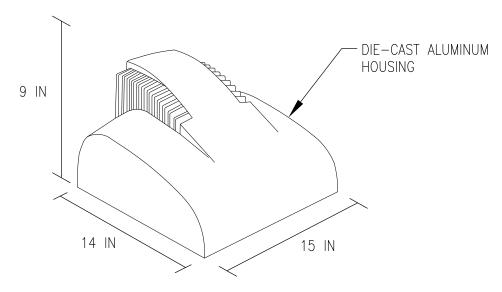
4 LAMP (F32/T8)

RCR	CU
1	88
2	76
3	67
4	59

EFFICIENCY - 85%

LIGHTING DETAIL A, FIBERGLASS HOUSING DAMP/WET LOCATION FLUORESCENT

REVISED: SEPTEMBER 2014 MAGAZINE DETAIL: F-1



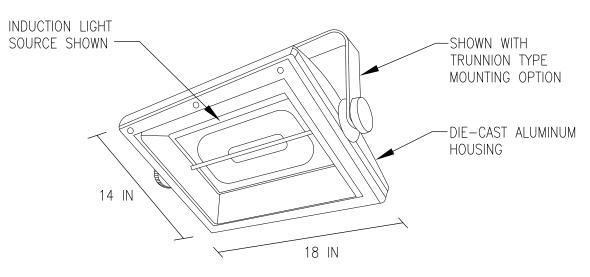
LUMINAIRE REQUIREMENTS:

- 1. HOUSING ONE-PIECE, DIE-CAST ALUMINUM. ALL EXPOSED HARDWARE SHALL BE STAINLESS STEEL.
- 2. FINISH MULTI-STAGE PRE-TREATMENT, FINISHED WITH BAKED-ON POLYESTER POWDER COAT. FINISH SHALL PASS 2500 HOUR SALT SPRAY TEST PER ASTM B117. FINISH COLORS INCLUDE DARK BRONZE, GREY OR BLACK WITH CUSTOM COLORS AVAILABLE.
- 3. REFLECTOR ONE—PIECE, HYDROFORMED OR SEGMENTED, ANODIZED, SPECULAR OR SEMI—SPECULAR ALUMINUM. PROVIDE WITH NEMA DISTRIBUTION PATTERN AS INDICATED. BUG UPLIGHT RATING SHALL BE UO, WITH BACKLIGHT AND GLARE RATINGS AS DETERMINED BY LIGHTING ZONE INSTALLED.
- 4. LENS AND FRAME DIE-CAST ALUMINUM FRAME WITH ONE-PIECE, MOLDED SILICON GASKET. LENS SHALL BE TEMPERED GLASS WITH POLYCARBONATE. VANDAL-RESISTANT OPTION.
- 5. BALLAST/GENERATOR TYPE A ENCAPSULATED, CWA, HIGH POWER FACTOR, CORE AND COIL OR ELECTRONIC FOR METAL HALIDE LIGHT SOURCE; (PROVIDE PULSE START WHEN AVAILABLE).

 TYPE B SOLID STATE, HIGH POWER FACTOR (≥0.9), HIGH FREQUENCY GENERATOR FOR INDUCTION LIGHT SOURCE.
- 6. LIGHT SOURCE TYPE A METAL HALIDE TYPE B INDUCTION VESSEL
- 7. CERTIFICATION UL AND/OR ETL LISTED FOR WET LOCATIONS AND ROHS COMPLIANT.
- 8. OPTIONS FINISH COLOR, PHOTOCELL, POLYCARBONATE LENS.
- 9. OTHER THE ABOVE SKETCH IS A NON—PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS AND IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER'S PREFERENCE. ALL DIMENSIONS ARE NOMINAL AND VARY PER MANUFACTURER.

	/INDUCTION	\	$D \land C \lor $
ПІЛ	/ INDUCTION	$VV \land L L$	MACK

REVISED: MARCH 2013 | LUMINAIRE PLATE: $X \perp -18$



LUMINAIRE REQUIREMENTS:

- 1. HOUSING ONE-PIECE, DIE-CAST ALUMINUM. ALL EXPOSED HARDWARE SHALL BE STAINLESS STEEL.
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- 3. REFLECTOR ONE—PIECE, HYDROFORMED OR SEGMENTED, ANODIZED, SPECULAR OR SEMI—SPECULAR ALUMINUM. PROVIDE WITH NEMA DISTRIBUTION PATTERN AS INDICATED. BUG UPLIGHT RATING SHALL BE UO, WITH BACKLIGHT AND GLARE RATINGS AS DETERMINED BY LIGHTING ZONE INSTALLED.
- 4. LENS AND FRAME DIE—CAST ALUMINUM FRAME WITH ONE—PIECE, MOLDED SILICON GASKET. LENS SHALL BE TEMPERED GLASS WITH POLYCARBONATE, VANDAL—RESISTANT OPTION.
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- 6. LIGHT SOURCE TYPE A METAL HALIDE
 TYPE B INDUCTION VESSEL
- 7. CERTIFICATION UL AND/OR ETL LISTED FOR WET LOCATIONS AND ROHS COMPLIANT.
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- 9. OTHER THE ABOVE SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS AND IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER'S PREFERENCE, ALL DIMENSIONS ARE NOMINAL AND VARY PER MANUFACTURER.

HID/INDUCTION FLOOD LUMINAIRE

REVISED: MARCH 2013 | LUMINAIRE PLATE: XL-22