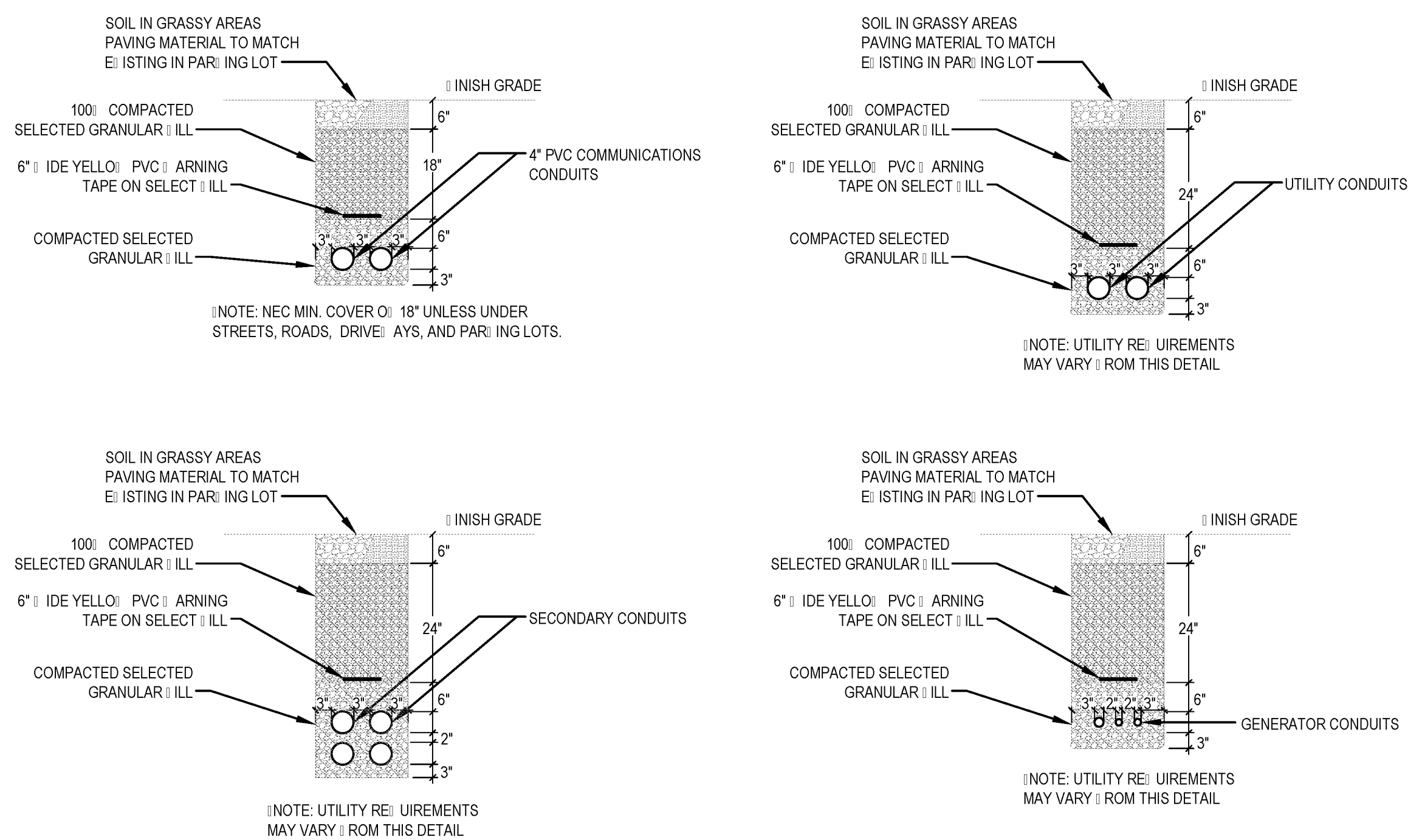
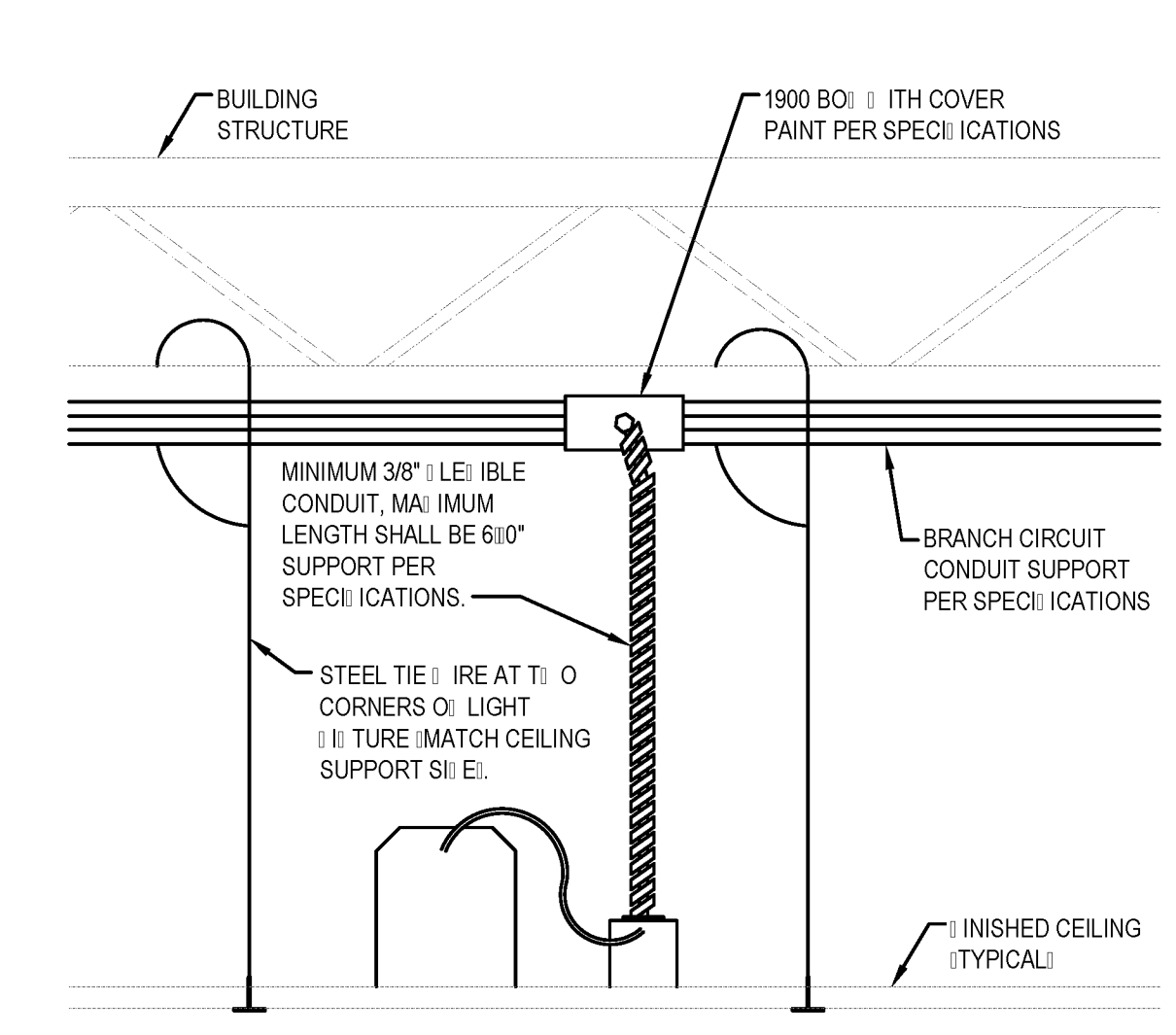


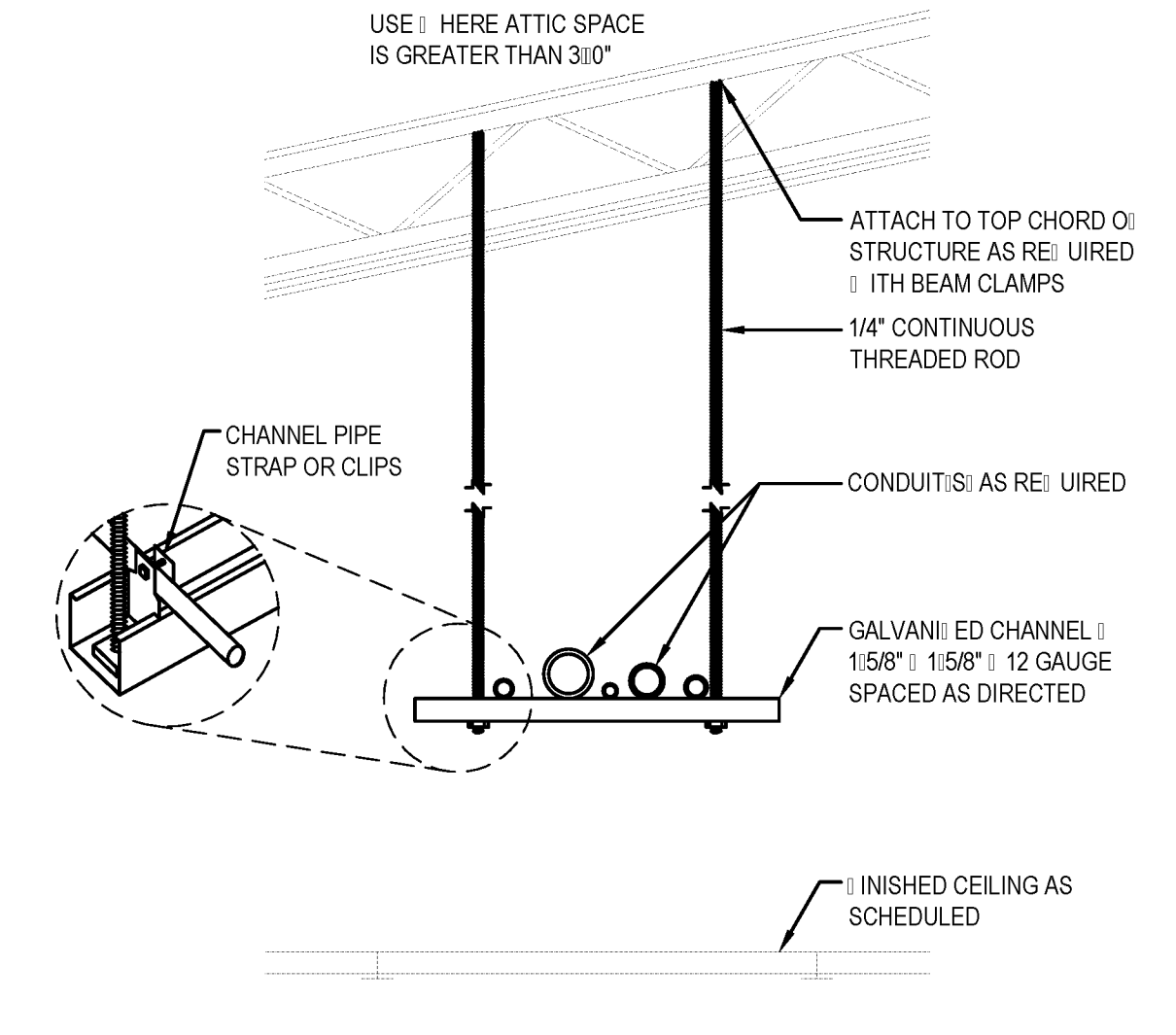
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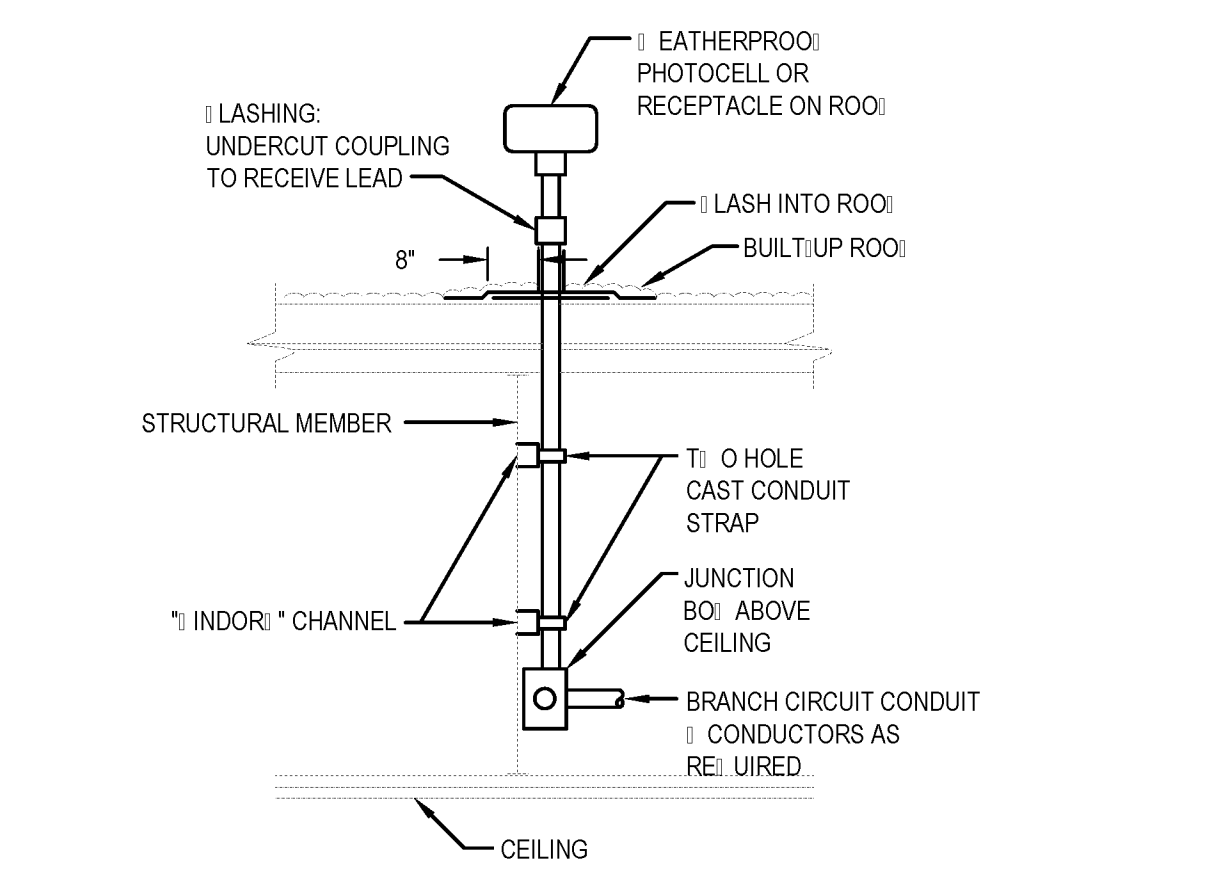
1 | CONDUIT TRENCHING DETAILS
E5.2 | N.T.S.



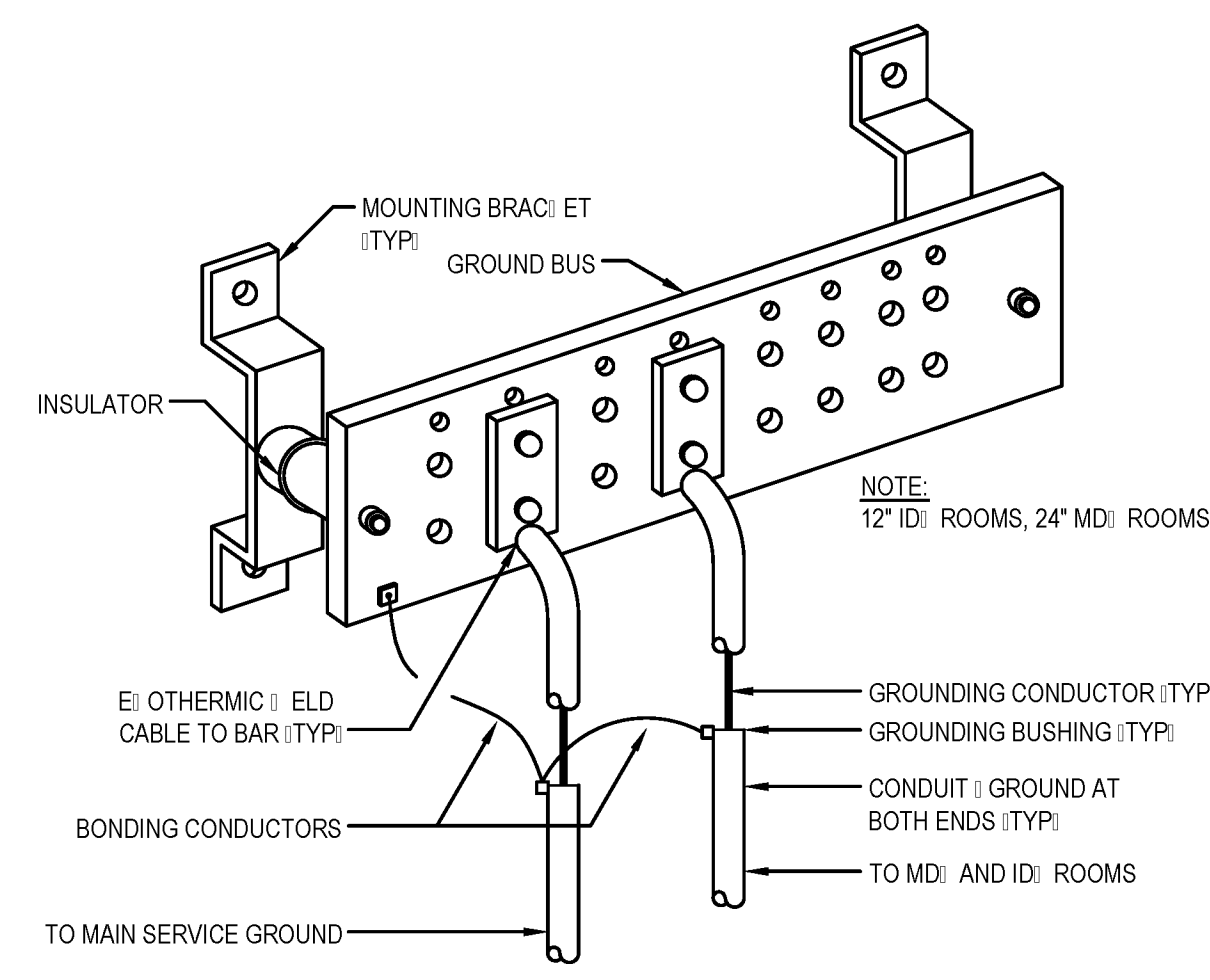
3 | RECESSED DOOR LIGHT INSTALLATION DETAIL
E5.2 | N.T.S.



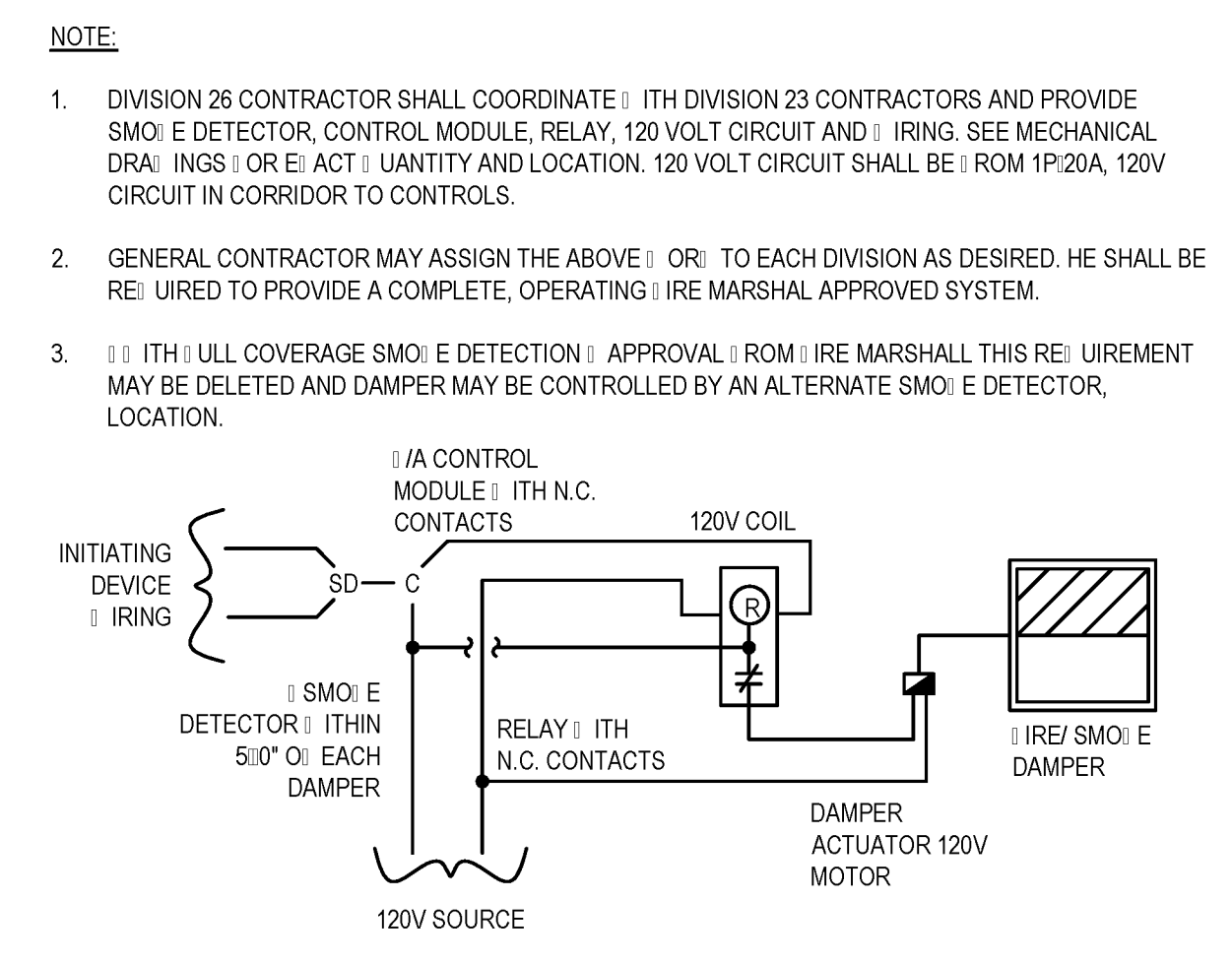
4 | CONDUIT SUPPORT DETAIL
E5.2 | N.T.S.



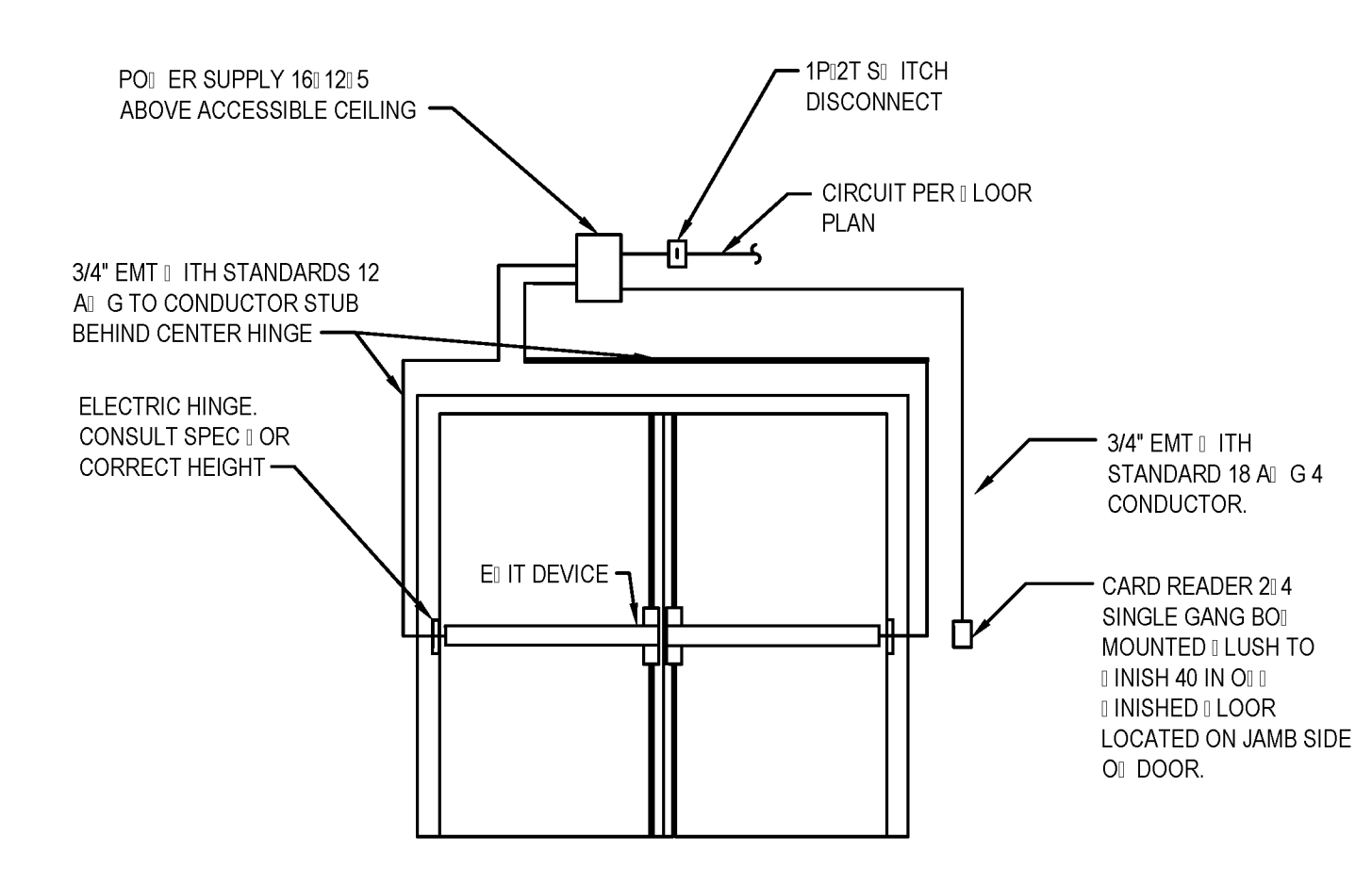
7 | ROOFTOP MOUNTED PHOTOCELL OR RECEPTACLE DETAIL
E5.2 | N.T.S.



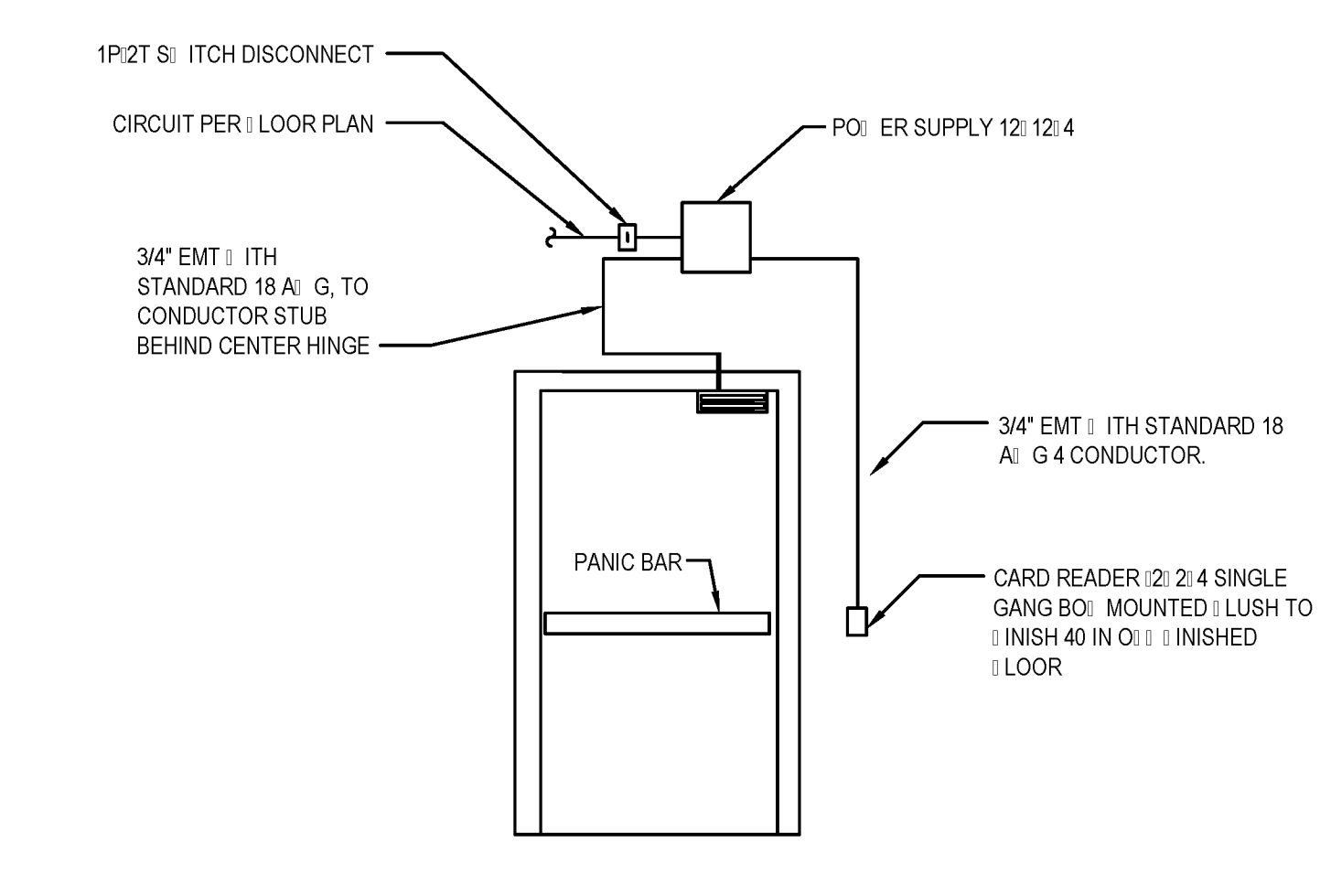
8 | MDI COMMUNICATIONS GROUND BUS DETAIL
E5.2 | N.T.S.



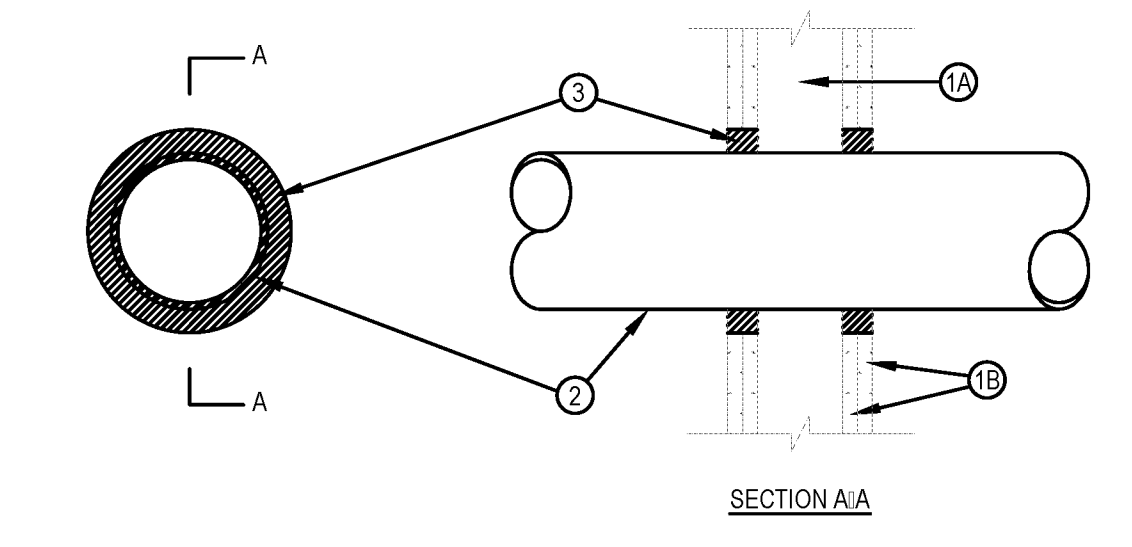
2 | IRE / SMOI E DAMPER DOOR OPENING DETAIL
E5.2 | N.T.S.



5 | DOUBLE DOOR ACCESS CONTROL ROUGH-IN
E5.2 | N.T.S.



9 | SINGLE DOOR ACCESS CONTROL ROUGH-IN
E5.2 | N.T.S.



6 | FIRE RATED WALL PENETRATION DETAIL
E5.2 | N.T.S.

- ALL ASSEMBLY SHALL BE THE 1 OR 2 HOUR RATED GYPSUM BOARD STUD WALL ASSEMBLY. ALL ASSEMBLY SHALL BE CONSTRUCTED IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES. ALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - ALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS.
 - WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2 1/2 IN. DE AND SPACED MAX 24 IN. OC. WHEN STEEL STUDS ARE USED AND THE DIAM OF OPENING EXCEEDS THE 10TH OF STUD CAVITY, THE OPENING SHALL BE FRAMED ON ALL SIDES USING LENGTHS OF STEEL STUD INSTALLED BETWEEN THE VERTICAL STUDS AND SCREWS ATTACHED TO THE STEEL STUDS AT EACH END. THE FRAMED OPENING IN THE WALL SHALL BE 4 TO 6 IN. DE AND 4 TO 6 IN. HIGHER THAN THE DIAM OF THE PENETRATING ITEM SUCH THAT WHEN THE PENETRATING ITEM IS INSTALLED IN THE OPENING, A 2 TO 3 IN. CLEARANCE IS PRESENT BETWEEN THE PENETRATING ITEM AND THE FRAMING ON ALL FOUR SIDES.
 - GYPSUM BOARD SHALL BE 5/8 IN. THICK, 4 FT. DE, 1/2\"/>
- THROUGH PENETRANTS IN ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY IN THE FIRESTOP SYSTEM, THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 2 1/4 IN. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT CONTACT. PIPE, CONDUIT OR TUBING MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45 DEGREES FROM PERPENDICULAR. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF ALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - STEEL PIPE: NOM 30 IN. DIAM OR SMALLER, SCHEDULE 10 OR HEAVIER, STEEL PIPE.
 - IRON PIPE: NOM 30 IN. DIAM OR SMALLER, CAST OR DUCTILE IRON PIPE.
 - CONDUIT: NOM 4 IN. DIAM OR SMALLER, STEEL ELECTRICAL METALLIC TUBING OR 6 IN. DIAM STEEL CONDUIT.
 - COPPER TUBING: NOM 6 IN. DIAM OR SMALLER, TYPE L OR HEAVIER COPPER TUBING.
 - COPPER PIPE: NOM 6 IN. DIAM OR SMALLER, REGULAR OR HEAVIER COPPER PIPE.
- ALL VOID OR CAVITY MATERIAL SHALL BE SEALANT: MIN 5/8 IN. THICKNESS OF ALL MATERIAL APPLIED WITHIN THE ANNULAR SPACE ON BOTH SURFACES OF ALL AT THE POINT OR CONTINUOUS CONTACT LOCATIONS BETWEEN PIPE AND WALL. A MIN 1/2 IN. DIAM BEAD OF ALL MATERIAL SHALL BE APPLIED AT THE PIPE ALL INTERFACES ON BOTH SURFACES OF ALL.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. ONE SEALANT

BEARING THE UL CLASSIFICATION MARK

CONTRACTOR NOTE

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, LANDLORD AND TENANT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.

BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE, LOCAL AND FEDERAL CODES, WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REGULATIONS HAS BEEN MADE. LATER CLAIMS OF LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR OTHER COSTS ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION AND CODE/REGULATIONS REVIEW BEEN MADE, WILL NOT BE ALLOWED.

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ISSUE: PERMIT SET

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REVISIONS:

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PROJECT NUMBER: PES 15090
SHEET TITLE: ELECTRICAL DETAILS
SHEET: E5.2