

SCOPE OF WORK

FIRE ALARM WIRE LEGEND

*THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING THE CORRECT CABLES AND QUANTITIES OF CABLES FOR THE BRAND OF FIRE ALARM LIFE SAFETY SYSTEM THAT THEY ARE PROPOSING.

**CONFIRM MANUFACTURERS CABLE REQUIREMENTS. USE SHIELDED CABLE IF REQUIRED.

(N)	-	NEW
(E)	-	EXISTING
(X)	-	REMOVE
(R)	-	REPLACE
(RR)	-	REMOVE AND REINSTALL
A.F.F.	-	ABOVE FINISHED FLOOR
AC	-	ABOVE CEILING
AOR	-	AREA OF REFUGE
EOLR	-	END OF LINE RESISTOR
UF	-	UNDER FLOOR
U.O.N.	-	UNLESS OTHERWISE NOTED
NAC	-	NOTIFICATION APPLIANCE CIRCUIT
SLC	-	SIGNAL LINE CIRCUIT
PIV	-	POST INDICATOR VALVE
OS&Y	-	OUTSIDE STEM AND YOKER VALVE
N.T.S.	-	NOT TO SCALE
DOY	-	DOUBLE CHECK VALVE
PB	-	PULL BOX
DPS	-	DAMPER POSITION SWITCH

3. ALL REQUIREMENTS OF CONTEST SPECIFICATIONS AND DRAWINGS APPLY.
2. INSTALLATION SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE ELECTRICAL CODES.
3. WIRING METHODS AND MATERIALS SHALL CONFORM WITH ALL APPLICABLE SECTIONS OF NEC ARTICLE 760.
4. 120VAC INPUT POWER FOR FIRE ALARM CONTROLS SHALL BE A DEDICATED, LOCKING CIRCUIT BREAKER PROPERLY LABELED "FACP". LABEL SHALL BE RED.
5. 120VAC IS NOT PERMITTED IN SAME CONDUIT WITH LOW VOLTAGE WIRING.
6. SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL FINAL CLEANING HAS BEEN COMPLETED UNLESS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
7. CONDUIT AND JUNCTION BOXES ARE DIAGRAMMATIC ONLY. EXACT LOCATION MAY VARY DUE TO FIELD CONDITIONS. ACTUAL INSTALLATION LOCATIONS SHALL BE DETERMINED BY THE INSTALLING CONTRACTOR.
8. NOTIFICATION DEVICE CIRCUIT WIRE RUN LENGTHS ARE CRITICAL. ANY INCREASE IN LENGTH OF WIRE MAY AFFECT CIRCUIT CONFIGURATION/VOLTAGE DROP.
9. DO NOT LOCATE SMOKE DETECTORS WITHIN THREE (3) FEET OF SUPPLY AIR VENTS.
10. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE 2010 EDITION OF NFPA 72 AND THE 2012 EDITION OF NFPA 101.
11. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION.
12. A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.
13. ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED FOR USE BY THE AUTHORITY HAVING JURISDICTION.
14. A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
15. A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLING CONTRACTOR AND GIVEN TO THE AUTHORITY HAVING JURISDICTION UPON COMPLETION OF THE INSTALLATION.
16. ALL RISER WIRINGS SHALL BE IN CONDUIT. WALL PENETRATIONS SHALL USE APPROVED PENETRATION METHODS.
17. THESE DRAWINGS DEPICT GENERAL LOCATIONS OF LIFE SAFETY EQUIPMENT AND FIELD DEVICES.
18. SHOULD ANY CONDITIONS EXIST THAT DIFFER FROM WHAT IS INDICATED ON THESE DRAWINGS WHICH CAUSE MAJOR DEVIATIONS IN THE WORK SHOWN, THE CONTRACTOR SHALL CONTACT THE DESIGNER IN A TIMELY MANNER SO AS NOT TO IMPAIR THE PROJECT SCHEDULE.
19. THE CONTRACTOR IS RESPONSIBLE FOR MAKING AND OBTAINING APPROVAL FOR ALL NECESSARY ADJUSTMENTS IN CIRCUITING AS REQUIRED TO ACCOMMODATE THE RELOCATION OF EQUIPMENT AND/OR DEVICES WHICH ARE AFFECTED BY ANY AUTHORIZED CHANGE. ALL CHANGES SHALL BE CLEARLY INDICATED ON THE RECORD DRAWINGS.
20. THE CONTRACTOR SHALL MAINTAIN ALL AREAS OF THE BUILDING IN A NEAT WORKMAN LIKE MANNER.
21. DO NOT APPLY POWER EXCEPT IN THE PRESENCE OF A FACTORY TRAINED TECHNICAL REPRESENTATIVE.
22. THE CONTRACTOR SHALL MAINTAIN THE FIRE RESISTANCE INTEGRITY OF ALL WALL, CEILING, AND ROOF ASSEMBLIES THAT ARE ALTERED AS A RESULT OF THE CONTRACTORS WORK, AND ANY TIME WORK IS NOT BEING ACTIVELY PERFORMED.

1. ALL FIRE ALARM WIRING SHALL BE INSTALLED, PER NEC REQUIREMENTS.
2. INSTALLATION SHALL CONFORM TO MANUFACTURER'S WIRING SPECIFICATIONS FOR OPTIMAL SYSTEM OPERATION.
3. ONE CIRCUIT OF DEDICATED 120VAC POWER SHALL BE PROVIDED AT EACH ALARM PANEL LOCATION. SEE ELECTRICAL DRAWINGS FOR SPECIFIC CIRCUIT IDENTIFICATION.
4. ANY NEW WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. THE CONTRACTOR SHALL NOT INTERMIX ANY HIGH VOLTAGE POWER WIRES (120VAC) WITH ANY SIGNAL OR CONTROL WIRES IN ANY CONDUIT.
5. ALL WIRES SHALL BE CONNECTED IN A UNIFORM MANNER, TRANSPARENT OR CHANGING OF COLOR CODES SHALL NOT BE PERMITTED.
6. ALL PULL AND JUNCTION BOXES SHALL BE PROVIDED WITH BLANK COVERS, OUT DOOR INSTALLED BOXES AND CONDUIT SHALL BE WEATHERPROOF TYPE.
7. ALL RULES OF WIRING ARE DIAGRAMMATIC, CONTRACTOR TO FIELD VERIFY EXACT ROUTING.
8. THE CONTRACTOR SHALL UNDERTAKE THE WORK IN ITS ENTIRETY IN ACCORDANCE WITH ITS DESIGN AND PURPOSE. ALL WORK SHALL BE CARRIED OUT IN A PROFESSIONAL MANNER WITH MAXIMUM EFFICIENCY AND EXCELLENT WORKMANSHIP.
9. IT IS UNDERSTOOD THAT THE CONTRACTOR HAS READ AND UNDERSTOOD FULLY THE PLANS, SPECIFICATIONS, AND ALL RELATED DOCUMENTS ON THIS PROJECT, AND IS WELL FAMILIAR WITH SITE CONDITIONS.
10. ALL CONDUIT IS 3/4-INCH MINIMUM UNLESS OTHERWISE NOTED.
11. FIRE ALARM CIRCUITS EXTENDING BEYOND ONE BUILDING AND RUN OUTDOORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 (NEC), ARTICLES 760, 770, 725, AND 800 WHERE APPLICABLE.
12. ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
13. ALL SHIELDED WIRE MUST HAVE SHIELD CONTINUITY THROUGHOUT THE FULL LENGTH OF THE WIRE/CABLE.
14. MAINTAIN 40% CONDUIT FILL RATIO PER NEC REQUIREMENTS.
15. CONNECT FIRE/SMOKE DAMPERS TO THE APPROPRIATE FIRE ALARM RELAY AS NOTED ON THE PLANS. REFER TO MECHANICAL DRAWINGS FOR FIRE/SMOKE DAMPER LOCATIONS.
16. POWER LIMITED CIRCUITS SHALL NOT BE INSTALLED IN THE SAME CABLE OR RACEWAY WITH CLASS 2 OR CLASS 3 AUDIO CIRCUITS PER NEC 760.56(0).
17. POWER LIMITED CIRCUITS SHALL BE SEPARATED FROM ELECTRIC LIGHT, POWER, CLASS 1, NON POWER LIMITED, AND MEDIUM POWERED BROADBAND COMMUNICATIONS CIRCUITS BY METAL BARRIER OR RACEWAY.
18. ALL DEVICES (EXCEPT FOR NOTIFICATION DEVICES) SHALL BE FROM THE SAME MANUFACTURER AS THE FACP (SIMPLEX).

* = ALARM RECEIPT CAPABILITY DURING ABNORMAL CONDITION IS REQUIRED

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Drawing Title
FIRE ALARM SYMBOLS LEGEND AND SHEET INDEX

Approved: Project Director

Project Title
POST TRAUMATIC STRESS DIAGNOSIS (PTSD)
EXPANSION & RENOVATION

Location	795 WILLOW ROAD, MENLO PARK, CA
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Checked
AW

Drawn
TW

Project Number
640-Z35003

Building Number
BUILDING 334 & 360

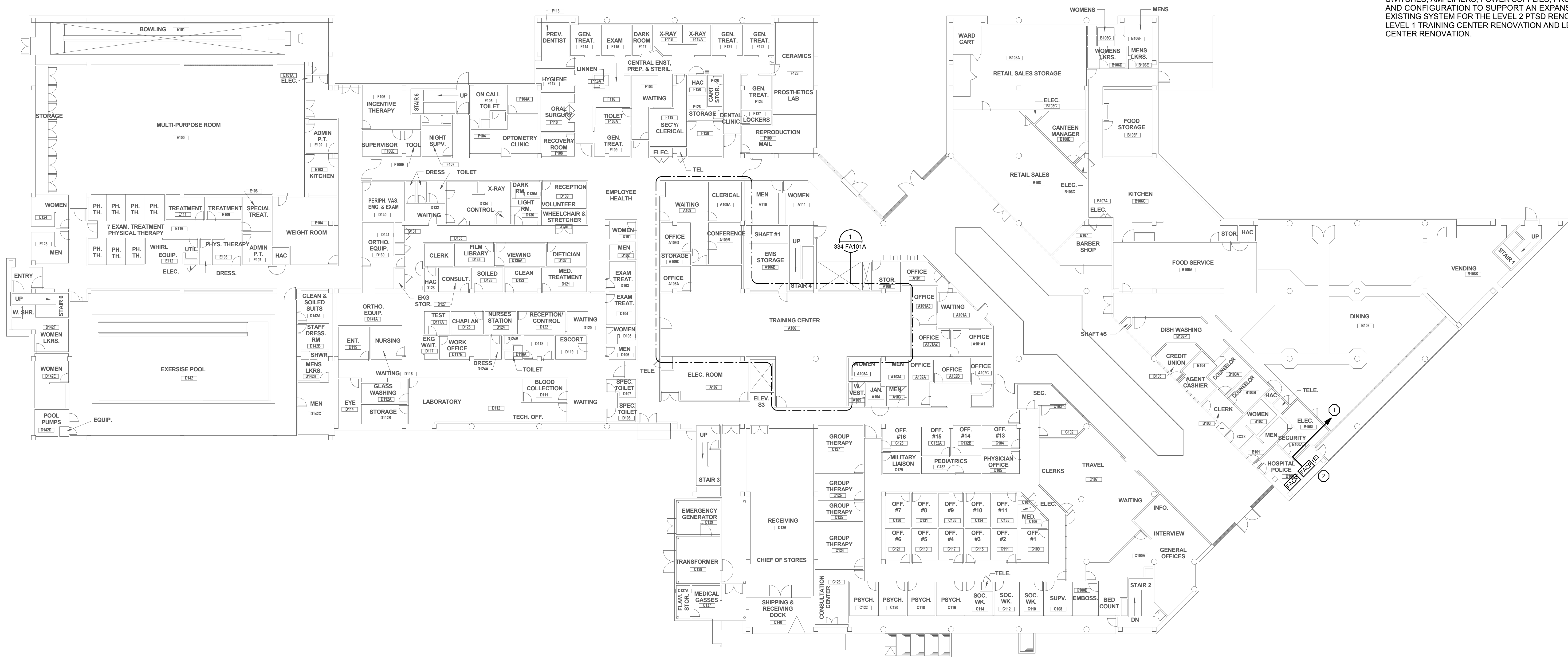
Drawing Number

334 FA000

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100% CD / BID SUBMISSION
FEBRUARY 2, 2016



1 BUILDING 334 - 1ST FLOOR
1/16" = 1'-0"

100% CD / BID SUBMISSION
FEBRUARY 2, 2016

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Drawing Title
FIRE ALARM DEVICE PLAN - BLDG 334 LEVEL 1 PTSD

Approved: Project Director

Project Title	POST TRAUMATIC STRESS DIAGNOSIS (PTSD) EXPANSION & RENOVATION
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Location	795 WILLOW ROAD, MENLO PARK, CA
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Project Number	640-Z35003
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Building Number
BUILDING 334 & 360

Drawing Number
334 FA101

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KEYNOTES 334 FA-102D

1 DEMOLISH EXISTING FIRE ALARM TERMINATION CABINET, CONDUIT, AND WIRING BACK TO FIRE ALARM CONTROL PANEL LOCATED IN POLICE OFFICE B100. MAINTAIN OPERATIONAL INTEGRITY OF EXISTING FIRE ALARM CIRCUITS SERVING AREAS OUTSIDE OF THE SCOPE OF THIS RENOVATION WHICH MAY BE ROUTED THROUGH THIS FIRE ALARM TERMINAL CABINET. IF REQUIRED REROUTE EXISTING FIRE ALARM CIRCUITS NECESSARY TO PROVIDE SERVICE AND PROTECTION TO PARTS OF THE BUILDING OUTSIDE OF THE AREA WHICH MAY BE AFFECTED BY THE PTSD RENOVATION PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL SHUTDOWNS AND INTERIM LIFE SAFETY MEASURES WHICH MAY BE REQUIRED AS A RESULT OF THIS WORK.

GENERAL NOTE

1 SHEET CONTAINS ALL NEW DEVICES

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1 FIRE ALARM DEVICE PLAN - BLDG 334 DEMO LEVEL 2 PTSD

1/8" = 1'-0"

65% CD SUBMISSION	03/16/16
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Revisions:	Date

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Drawing Title
FIRE ALARM DEMOLITION DEVICE PLAN - BLDG 334 LEVEL 2 PTSD

Approved: Project Director

Project Title
POST TRAUMATIC STRESS DIAGNOSIS (PTSD)
EXPANSION & RENOVATION

Location
795 WILLOW ROAD, MENLO PARK, CA

Date
02/02/2016

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Project Number
640-235003

Building Number
BUILDING 334 & 360

Drawing Number
334 FA102D

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FEBRUARY 2, 2016

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one sixteenth inch = one foot



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FEBRUARY 2, 2016

CONSULTANTS:



Drawing Title	FIRE ALARM BLDF 334 LEVEL 2 PTSD AND TRAINING CENTER RISER DIAGRAM
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Project Title
POST TRAUMATIC STRESS DIAGNOSIS (PTSD)
EXPANSION & RENOVATION

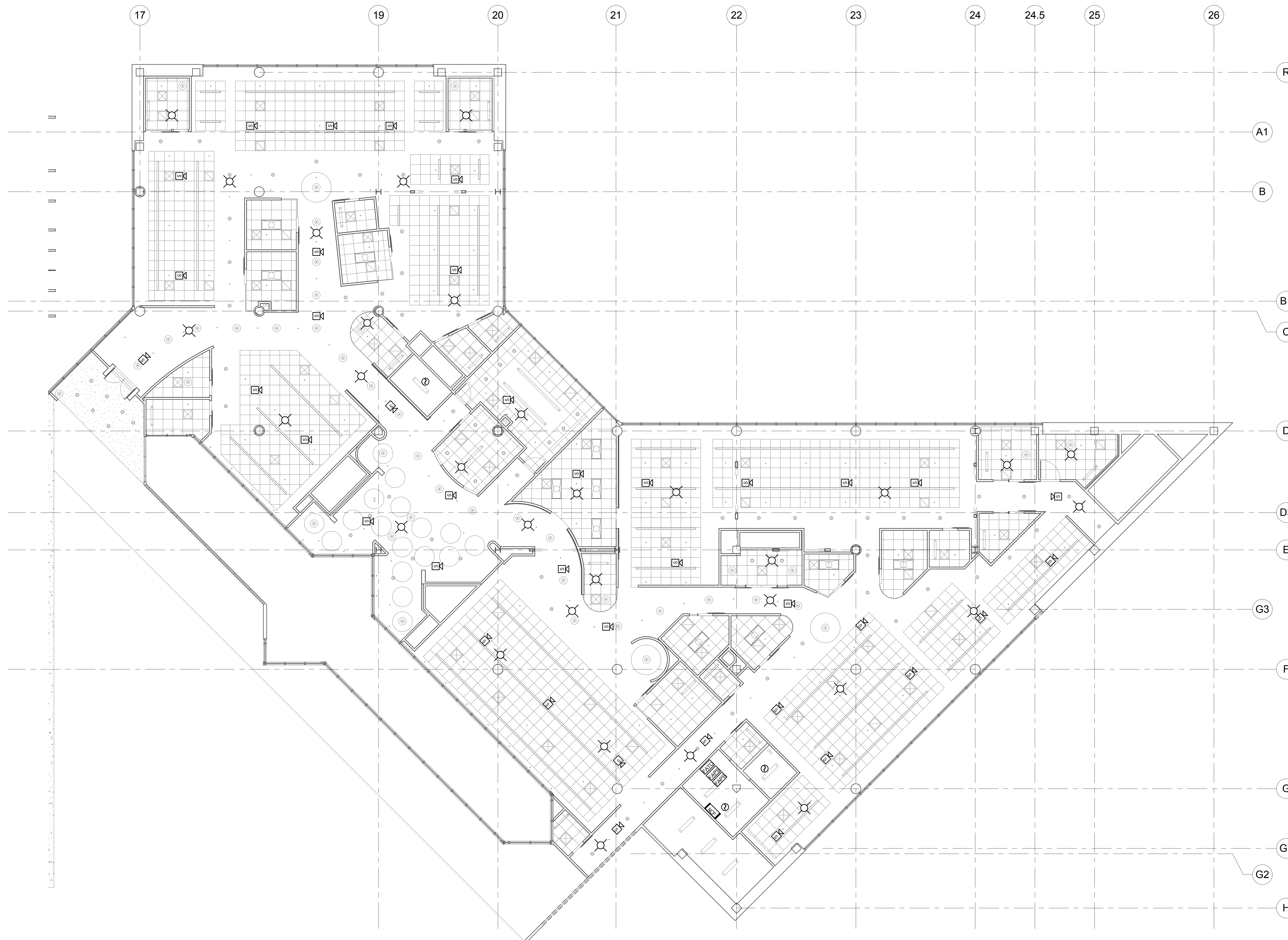
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Drawing Number

334 FA201

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1 FA REFLECTED CEILING DEVICE PLAN - BLDG 334 LEVEL 2 PTSD
1/8" = 1'-0"

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Drawing Title	FIRE ALARM REFLECTED CEILING PLAN - BLDG 334 LEVEL 2 PTSD
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Approved: Project Director

Project Title	POST TRAUMATIC STRESS DIAGNOSIS (PTSD) EXPANSION & RENOVATION
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	Location
	795 WILLOW ROAD, MENLO PARK, CA

ENLO PARK,	Checked
	AW

	Draw
	TW

Project Number	640-Z35003
Building Number	BUILDING 334 & 360

Drawing Number	334 FA302
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Veterans Affairs

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three inches = one foot

one and one half inches = one foot

one inch = one foot

three quarters inch = one foot

one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

one eighth inch = one foot

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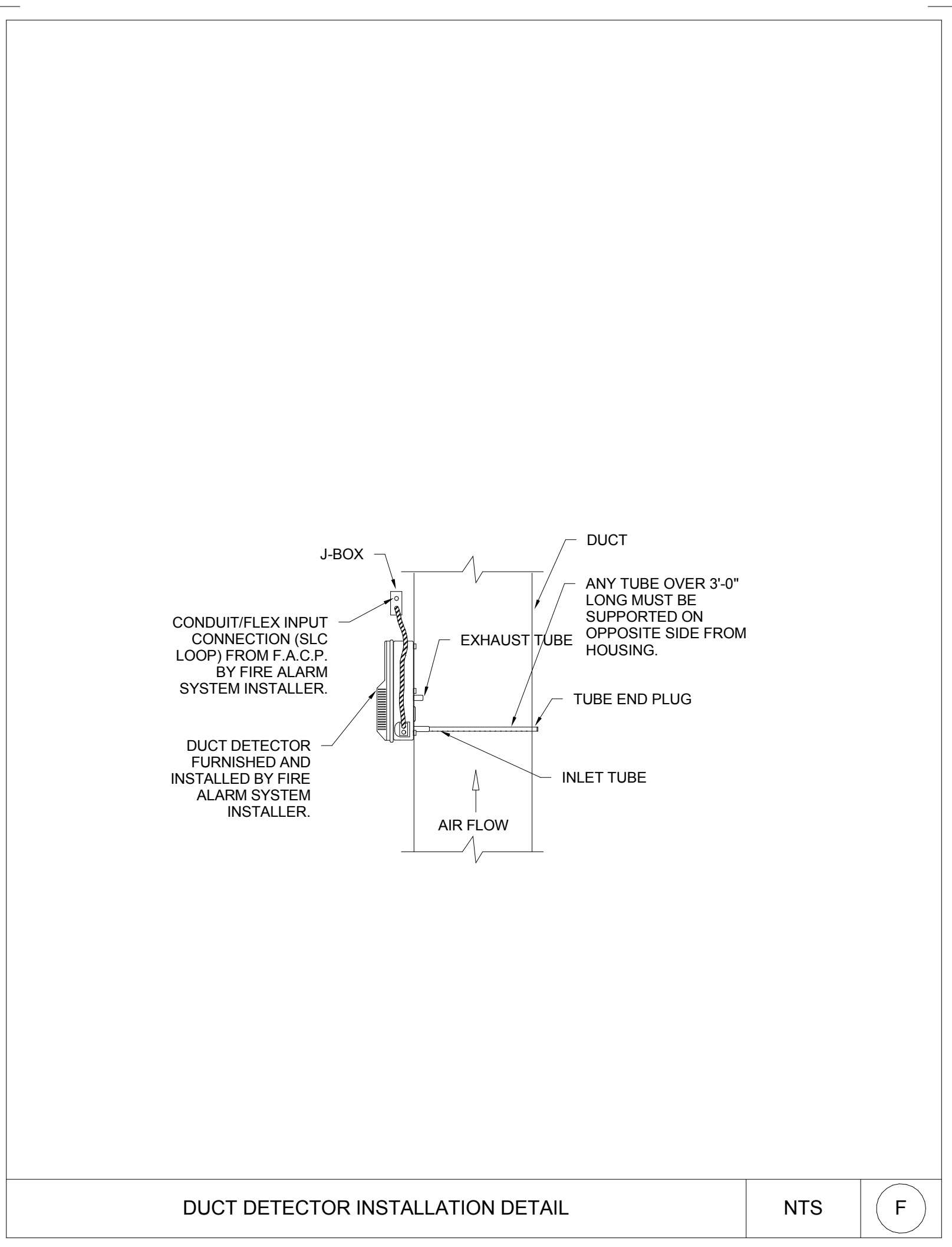
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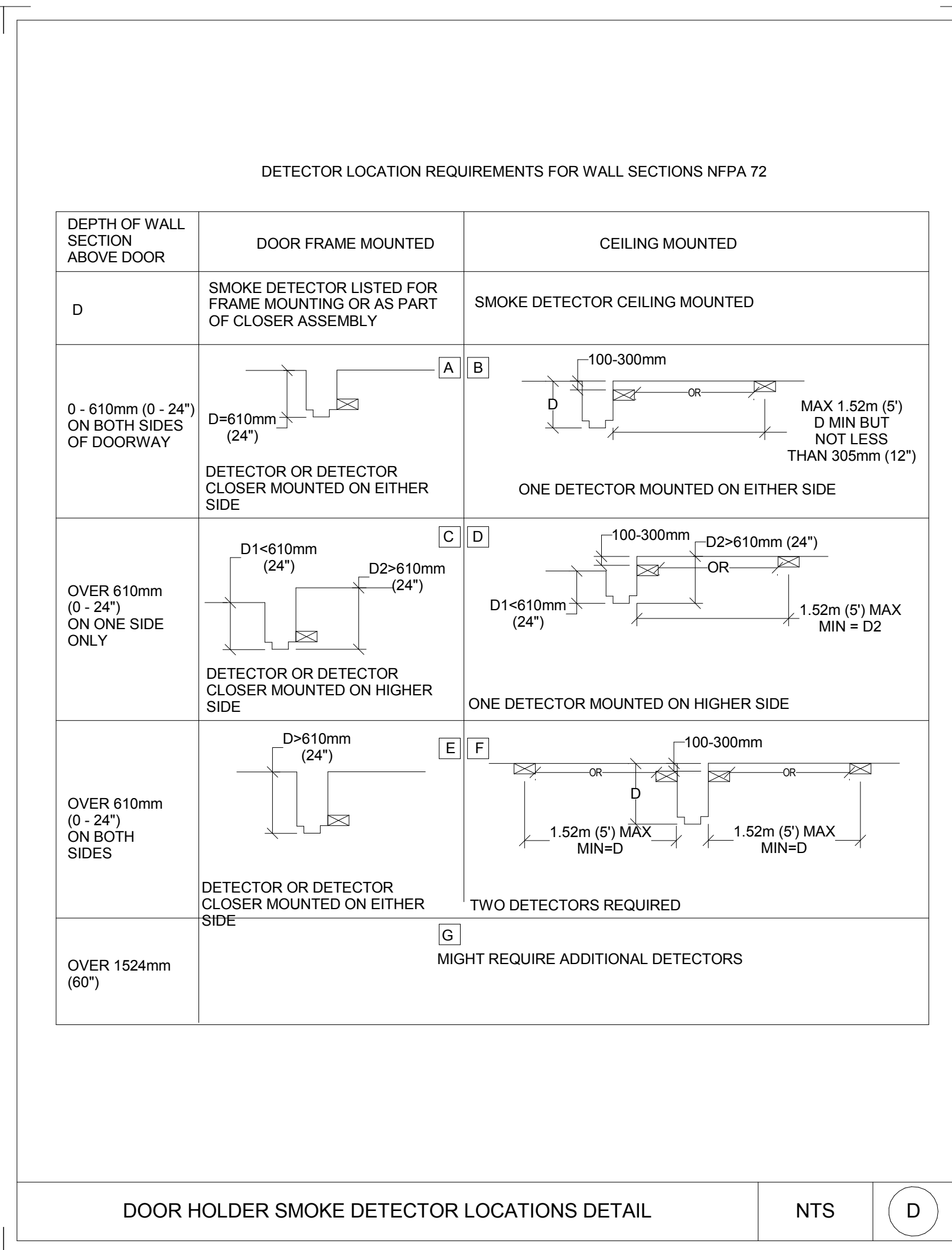
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DUCT DETECTOR INSTALLATION DETAIL

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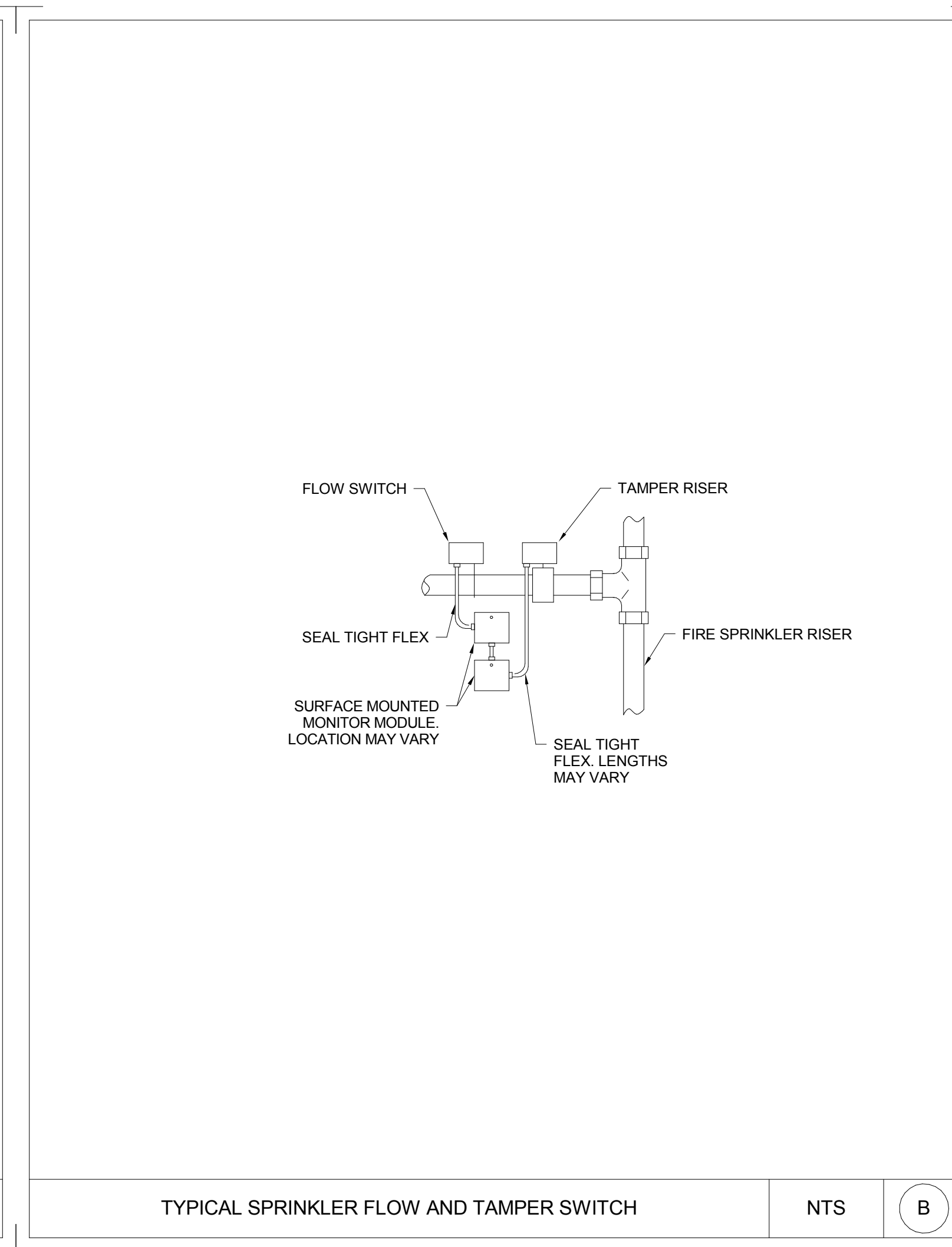
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DOOR HOLDER SMOKE DETECTOR LOCATIONS DETAIL

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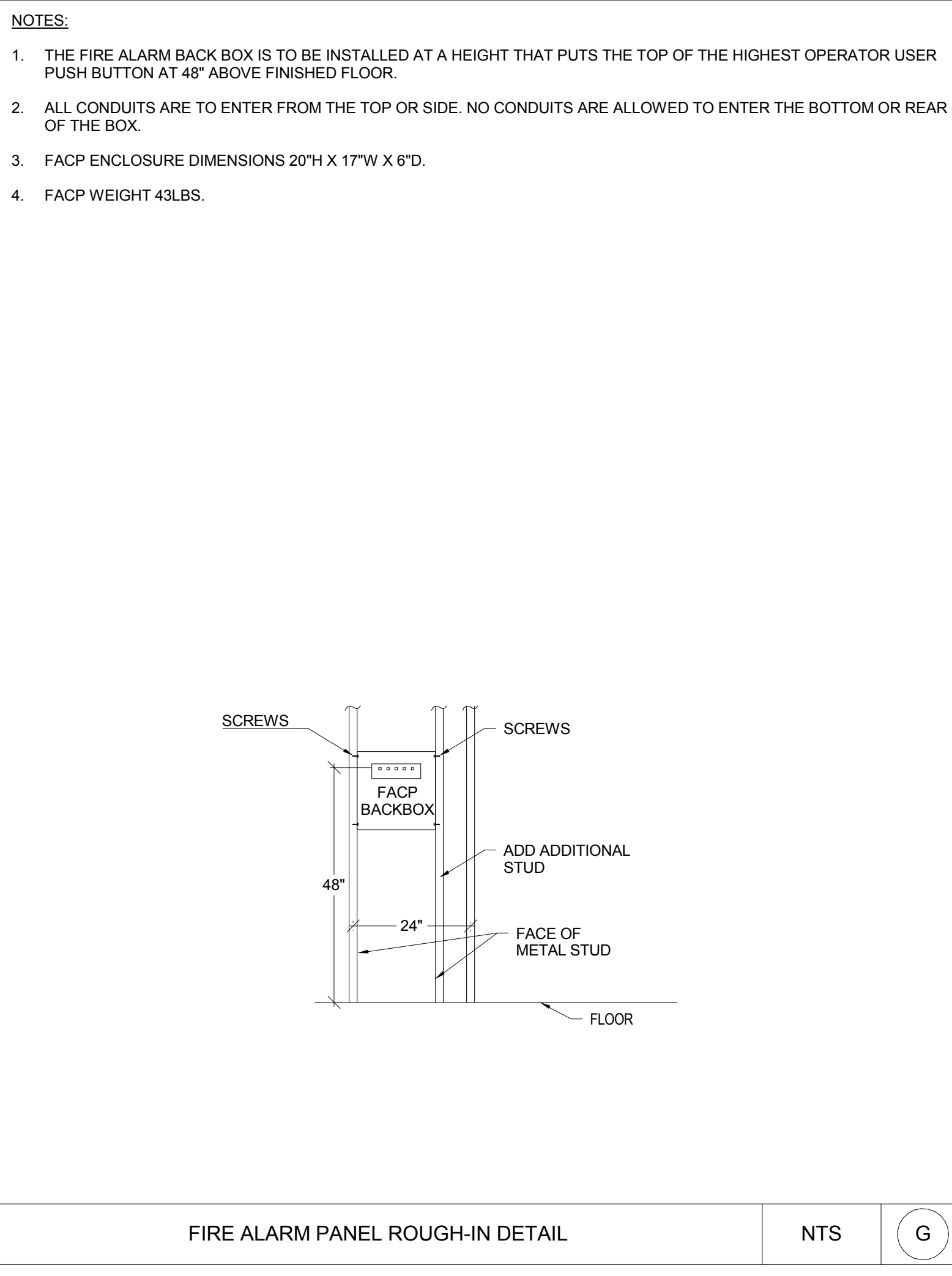
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TYPICAL SPRINKLER FLOW AND TAMPER SWITCH

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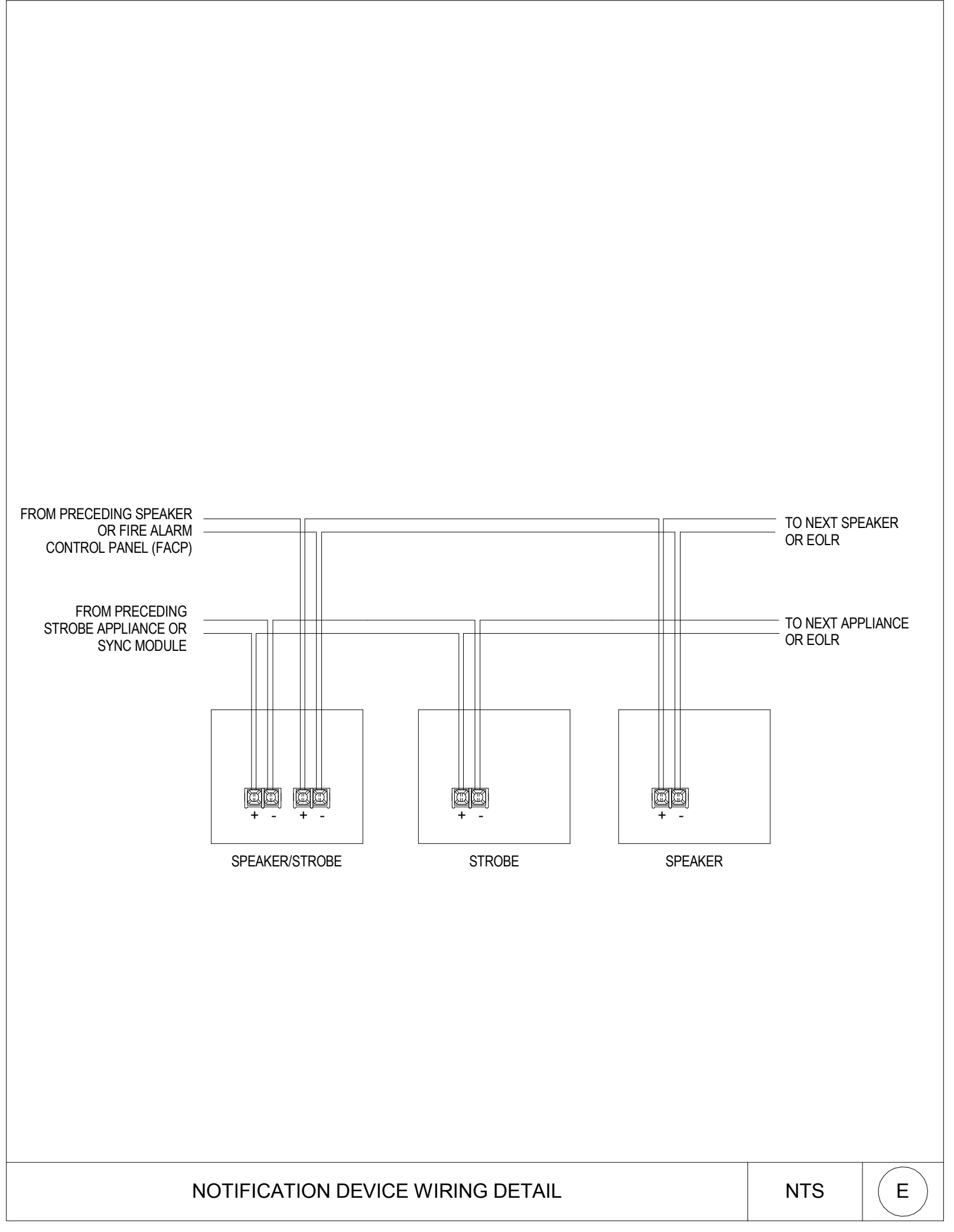
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FIRE ALARM PANEL ROUGH-IN DETAIL

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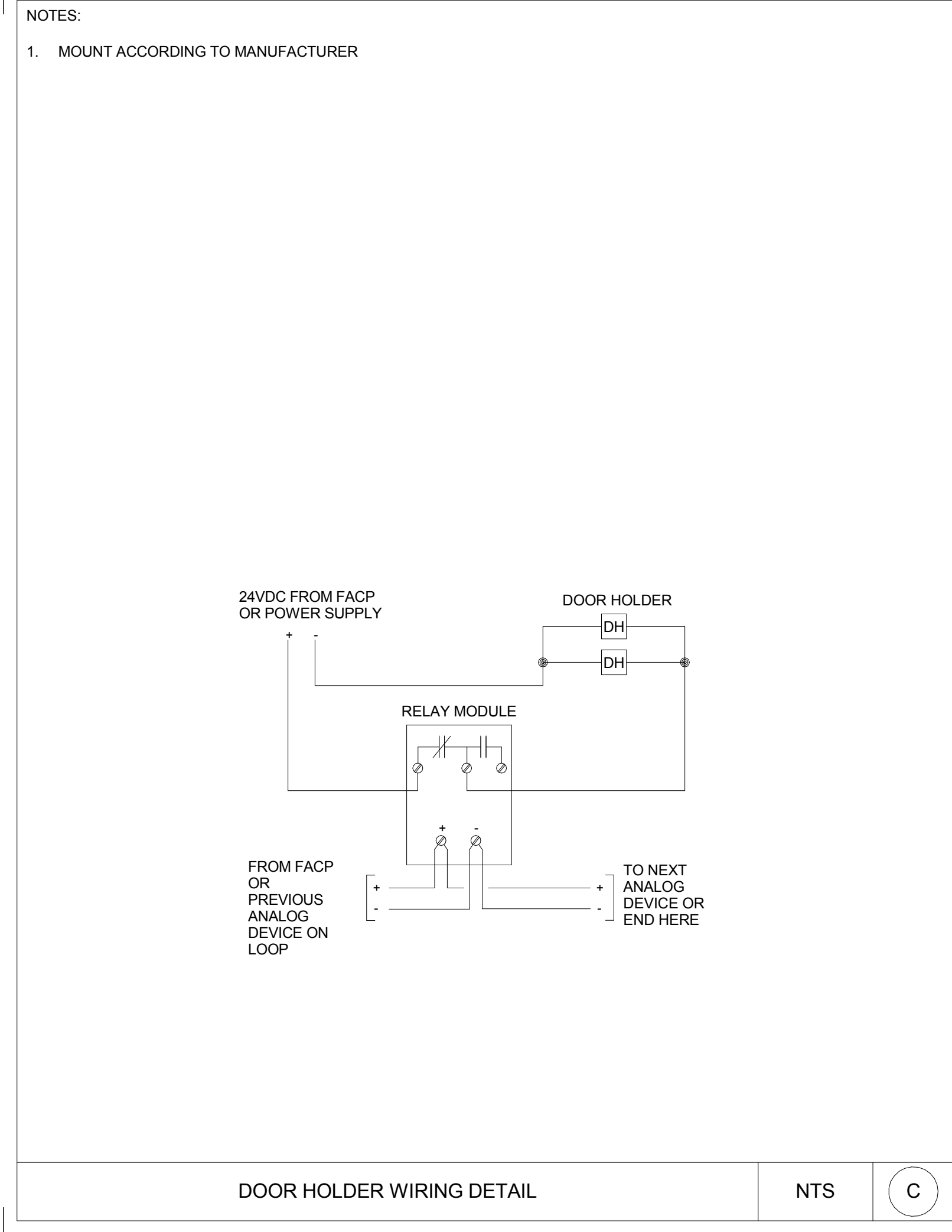
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NOTIFICATION DEVICE WIRING DETAIL

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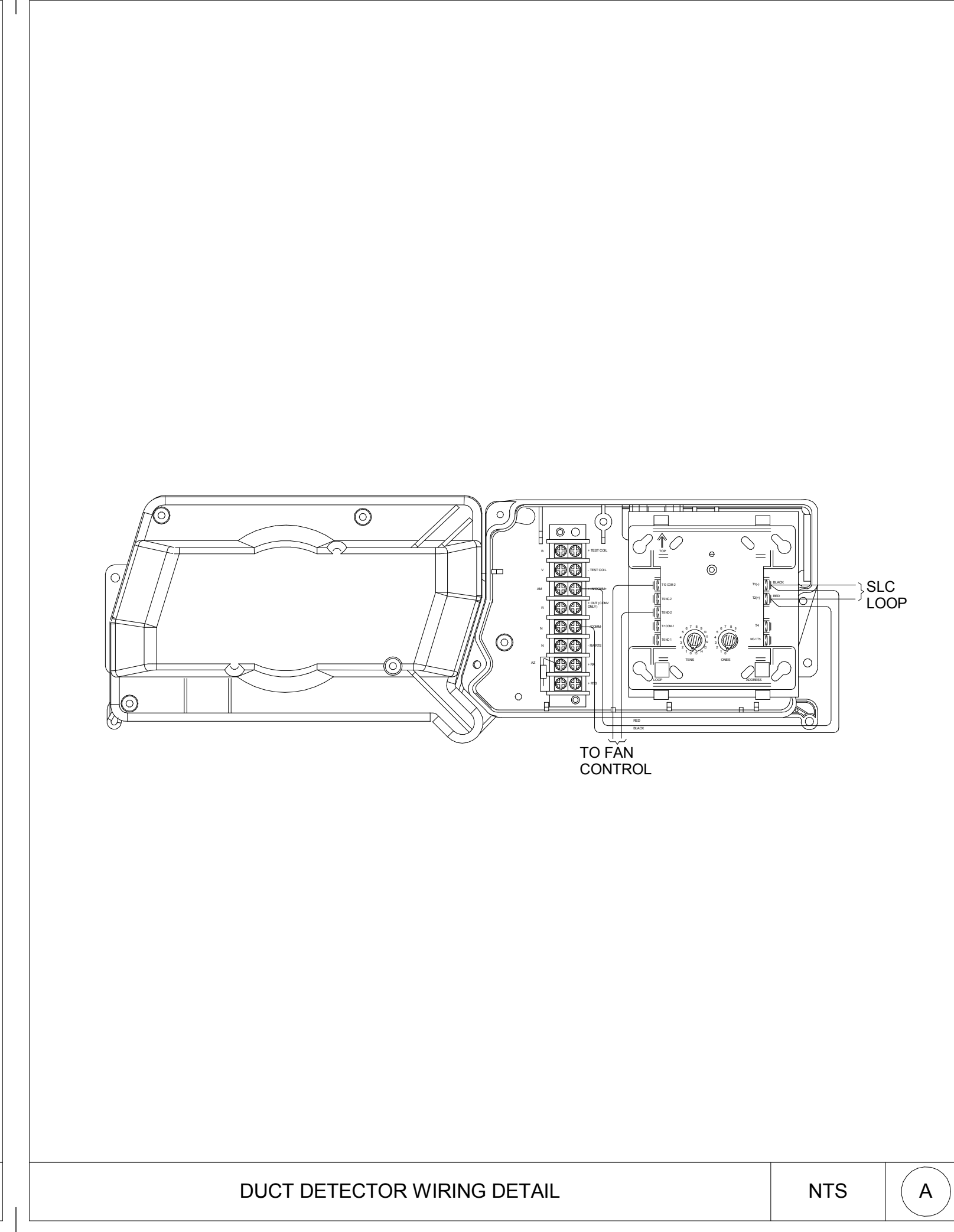
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DOOR HOLDER WIRING DETAIL

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DUCT DETECTOR WIRING DETAIL

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Drawing Title
FIRE ALARM - DETAIL SHEET

Approved: Project Director

Project Title
POST TRAUMATIC STRESS DIAGNOSIS (PTSD)
EXPANSION & RENOVATION

Location
795 WILLOW ROAD, MENLO PARK, CA

Date
02/02/2016

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AW

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Project Number
640-235003

Building Number
BUILDING 334 & 360

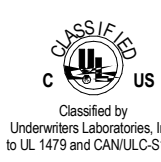
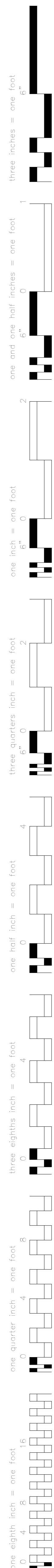
Drawing Number

334 FA402

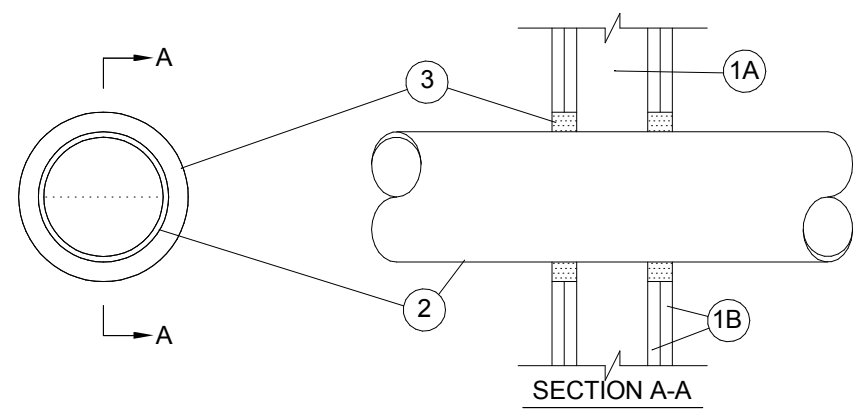
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FEBRUARY 2, 2016



System No. W-L-1054
F Ratings - 1 and 2 Hr (See Items 1 and 3)
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/Sq Ft
L Rating At 400 F - 4 CFM/Sq Ft



1. **Wall Assembly** – The 1 or 2 ft fire-rated gypsum wallboard/steel wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - A. **Stud** – Studs shall be 2x4 or 2x6 wood studs or steel channel studs. Wood studs to consist of nominal 2 by 4 in. lumber spaced 16 in. On C-Steel studs to be min 2 1/2 in. wide and spaced max 24 in. On C-Steel when studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel wallboard installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the steel shall be 4 to 6 in. wide and 12 in. high. On U-Steel studs, a 1/2 in. thick U-Steel channel stud is installed in the opening, a 2 to 3 in. clearance is provided between the penetrating item and the framing on all four sides.
 - B. **Gypsum Board** – 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers and fastening shall be as specified in the individual U300 or U400 Series Designs in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls. The F Rating of the firestop system is equal to the fire rating of the wall assembly.
 - C. **Through-Penetrations** – One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The pipe, conduit or tubing shall be installed in the individual U300 or U400 Series Designs in the UL Fire Resistance Directory. The 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 wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - a. **Steel Pipe** – Nom 30 in diam. (or smaller) Schedule 10 (or heavier) steel pipe.
 - b. **Steel Pipe** – Nom 30 in diam. (or smaller) cast or ductile iron pipe.
 - c. **Conduit** – Nom 4 in diam. (or smaller) steel electrical metallic tubing or 6 in. diam. steel conduit.
 - d. **Copper Tubing** – Nom 6 in. diam. (or smaller) Type L electrical metallic tubing (or heavier) copper tubing.
 - e. **Copper Pipe** – Nom 6 in. diam. (or smaller) rigid pipe.
 - D. **Fill, Void or Cavity Material** – Sealant – Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
2. **MULTI CONSTRUCTION CHEMICALS, DIV OF MILIT INC. – FS-ONE** –
*Bearing the UL Classification Mark.

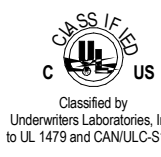


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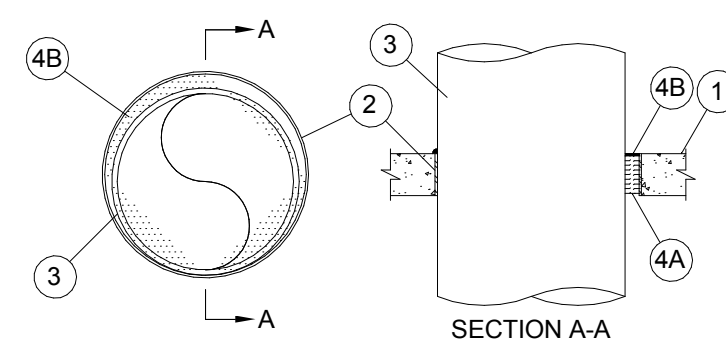
HILTI W-L-1054 FIRE STOP DETAIL

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F Ratings - 1 and 2 Hr (See Items 1 and 3)
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/Sq Ft
L Rating At 400 F - 4 CFM/Sq Ft



1. **Floor or Wall Assembly** – Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 psi) concrete. Wall may also be constructed of any UL Classified Concrete Block¹. Max dim of opening is 32 in.
 2. **Sheet Metal Sleeve** – (Optional) Max 6 in. diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. above floor or beyond both surfaces of wall.
 3. **Sheet Metal Sleeve** – (Optional) Max 6 in. diam, min 26 ga galv steel provided with a 26 ga galv square flange spot welded to sleeve. The sleeve is to be cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.
 4. **Sheet Metal Sleeve** – (Optional) Max 12 in. diam, min 24 ga galv steel provided with a 24 ga galv square flange spot welded to sleeve. The sleeve is to be cast in place, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.
 5. **Through Penetrant** – If a pipe or tube or conduit to be installed either orthogonally or eccentrically within the firestop system, The annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. Penetrant may be installed with continuous point contact. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic penetrant are permitted:
 - A. Steel Pipe – Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe
 - B. Iron Pipe – Nom 30 in. diam (or smaller) cast or ductile iron pipe
 - C. Copper Pipe – Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe
 - D. Copper Tubing – Nom 6 in. diam (or smaller) Type K (or heavier) copper tubing
 - E. Conduit – Nom 6 in. diam (or smaller) steel conduit
 - F. Conduit – Nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT)
 6. **Firestop System** – The firestop system shall consist of the following:
 - a. Packing Material – Min 4 in. thickness of min 4 pf mineral wool batt insulation firmly packed into opening as a permanent firestop material. The recessed from floor or sleeve or from both surfaces of wall or sleeve as required to accommodate the required thickness of fill material.
 - b. Fill, Void or Cavity Material – Sealant – Min 1/4 in. thickness of fill material applied within the annulus, flush with top surface of sleeve and bottom of wall or floor. Sealant may be applied to the annulus, flush with top surface of sleeve and bottom of wall, or flush with top surface of sleeve, min 1/4 in. diam bead of fill material shall be applied at the concrete or sleeve/ pipe penetrant interface on the top surface of floor and on both surfaces of wall.
 - c. UL LISTED CONSTRUCTION Chemicals, DIV OF FHFI INC. – FS- One Firestop System
- ¹ Bearing the UL Classification Mark and



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HILTI W-L-1054 FIRE STOP DETAIL

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Drawing Title
FIRE ALARM - DETAIL SHEET

Approved: Project Director

Project Title
POST TRAUMATIC STRESS DIAGNOSIS (PTSD)
EXPANSION & RENOVATION

Location	795 WILLOW ROAD, MENLO PARK, CA
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Date
02/02/2016

Checked
AW

Draw
TW

Project Number
640-Z35003

Building Number
BUILDING 334 & 360

Drawing Number

334 FA403

100% CD / BID SUBMISSION
FEBRUARY 2, 2016

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