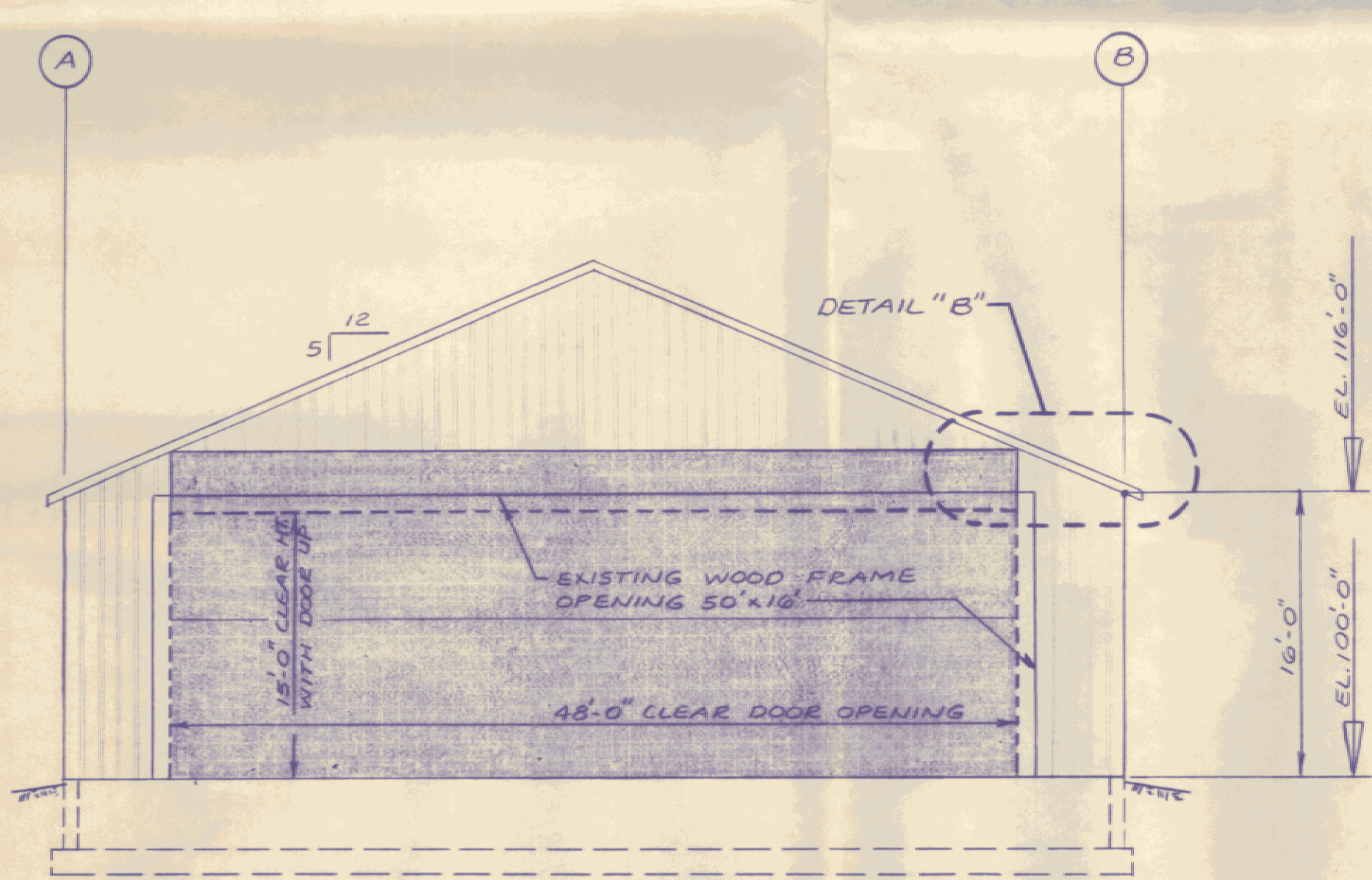
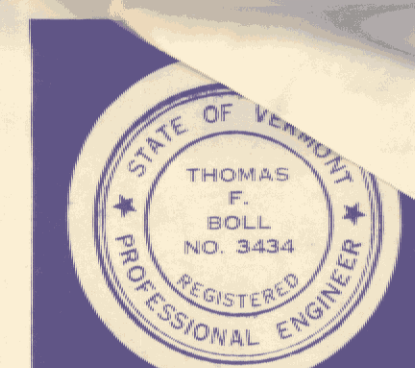
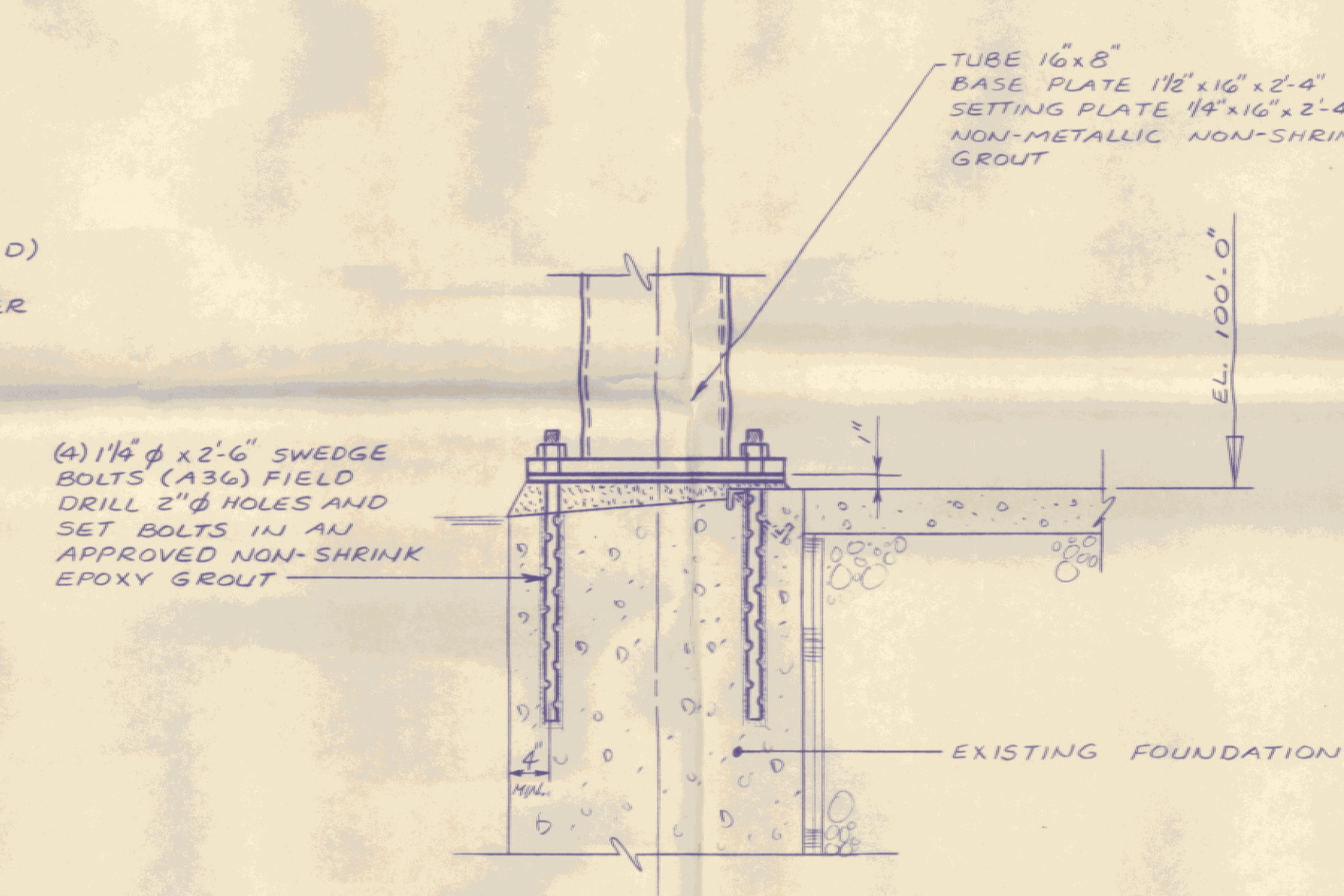
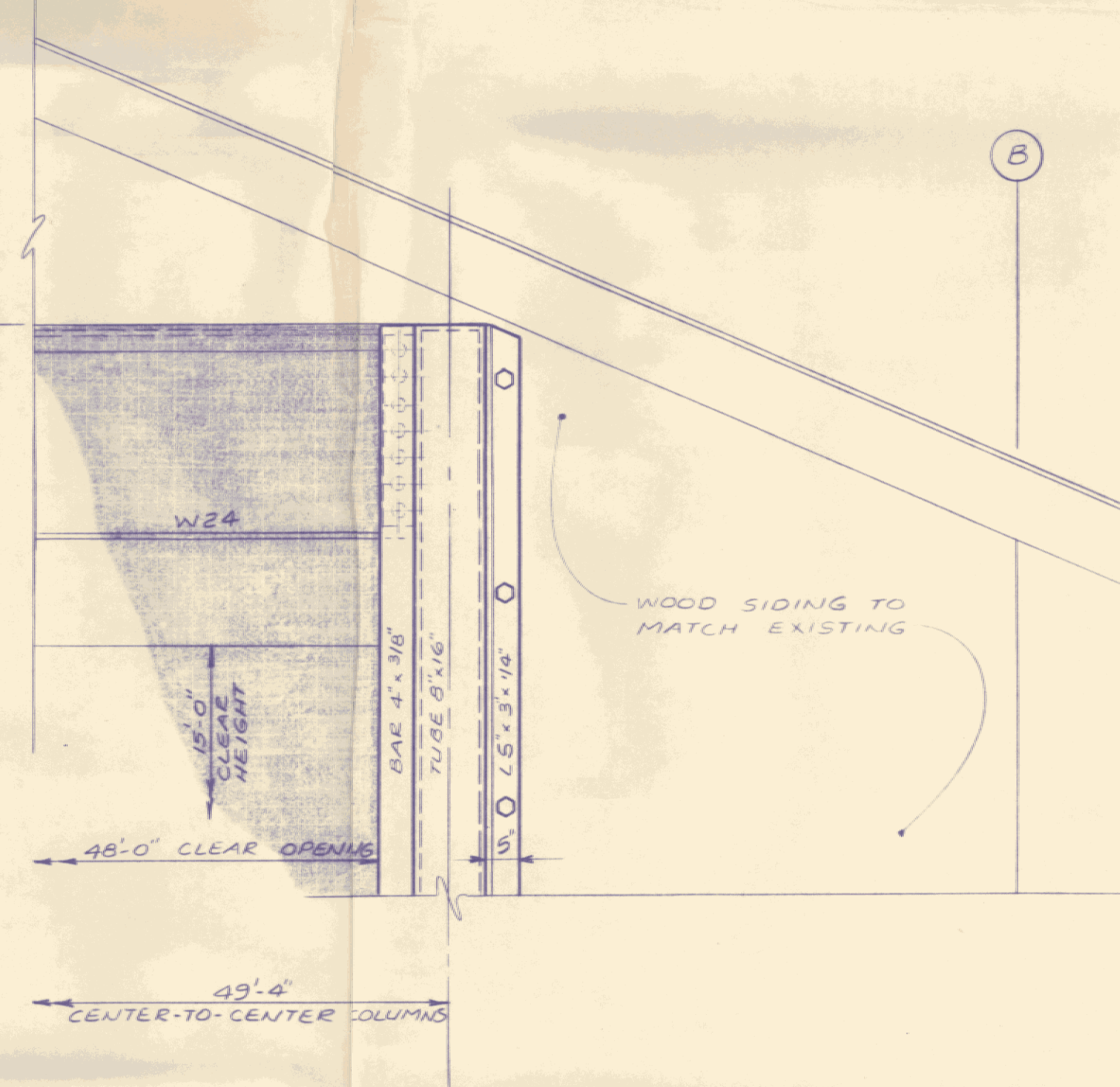
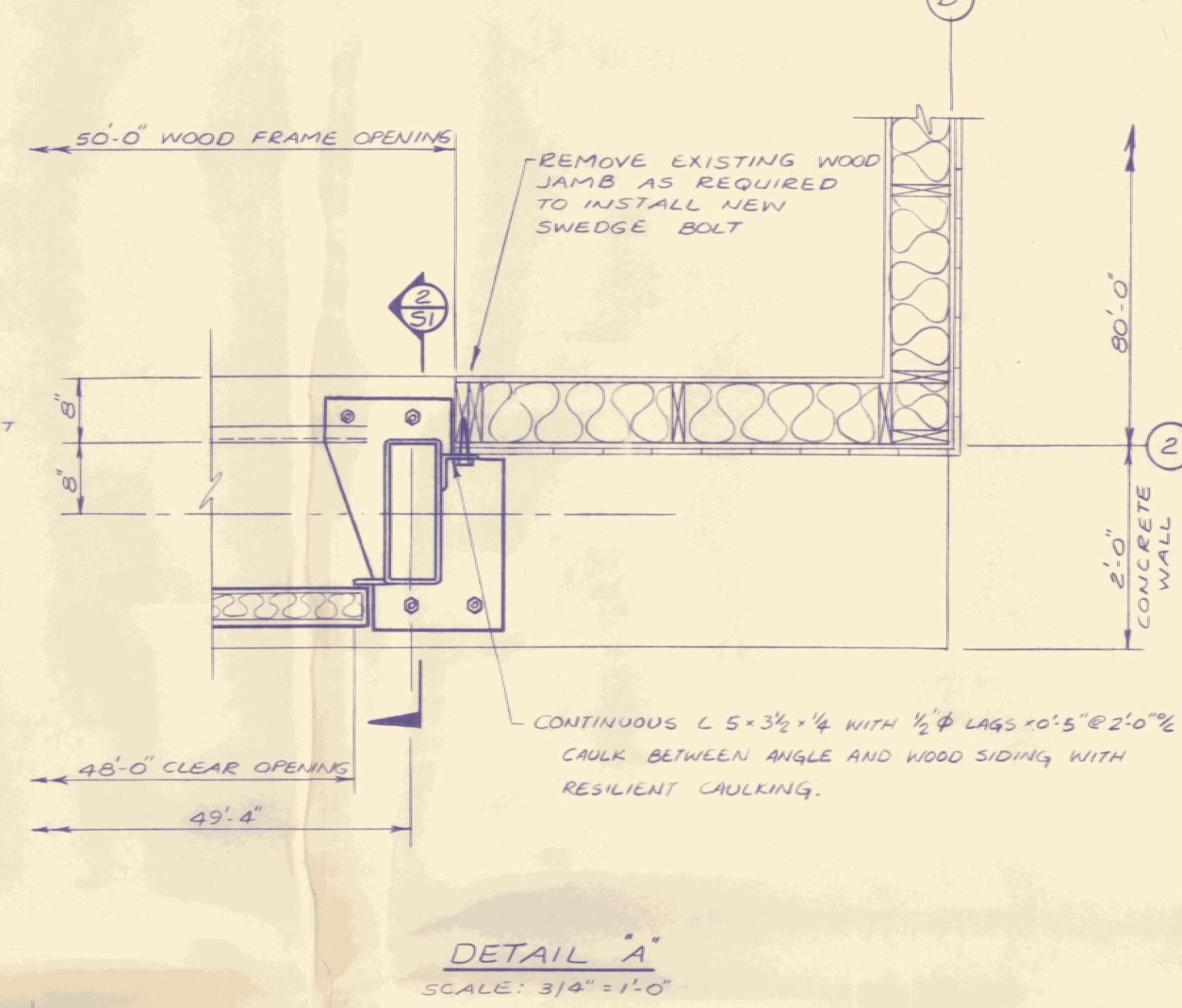
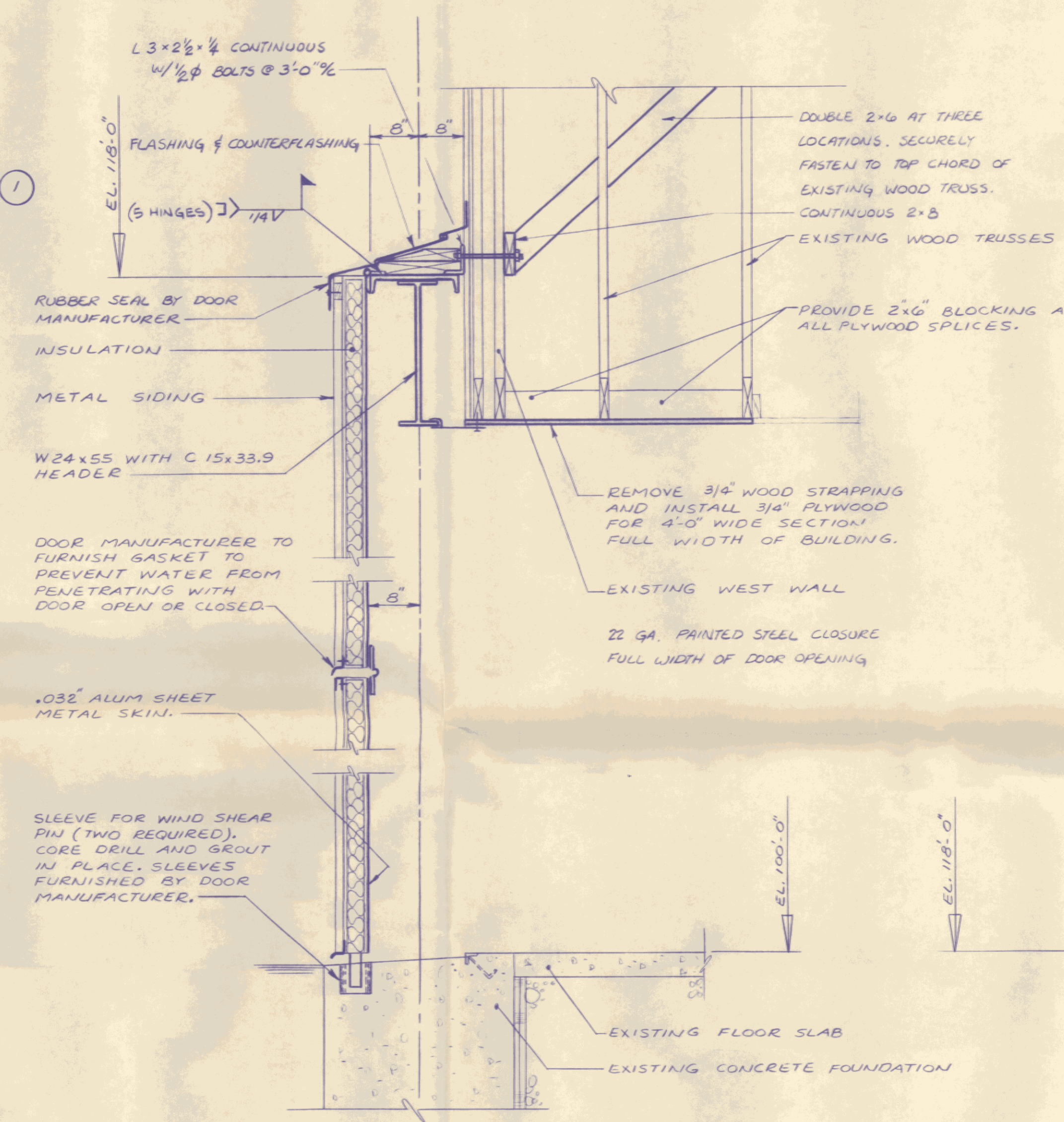


**PLAN**  
SCALE: 1/8"=1'-0"

- ELEVATION TOP OF EXISTING CONCRETE FLOOR SLAB = 100'-0" (ASSUMED)
- ELEVATION TOP OF NEW W24x55 TO BE 118'-0". PROVIDE 3/4" CAMBER FOR DEAD LOAD DEFLECTION.



**WEST ELEVATION**  
SCALE: 1/8"=1'-0"



No.	DATE	REVISION

**Lawes Consulting Engineers, Inc.**  
WILLISTON, VERMONT  
ROUTE 2A  
STATE OF VERMONT DIVISION OF BUILDINGS  
2 WESTERN AVENUE MONTPELIER, VERMONT 05602

HANGAR DOOR  
NEWPORT STATE AIRPORT  
NEWPORT, VERMONT

PLAN AND DETAILS

DRAWN	PROJ. No.
SOMA	8336
CHECKED	DATE
TFB	4-27-84

**S1**

STRUCTURAL NOTES

- ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE "SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" OF THE A.I.S.C. AND TO THE REQUIREMENTS OF THE LOCAL BUILDING CODES.
- ALL WELDING SHALL CONFORM TO THE "CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.
- STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING:  
STRUCTURAL SHAPES  
ASTM A36, Fy = 36,000 PSI  
BOLTS  
ASTM A325  
STRUCTURAL TUBING  
ASTM A500, GRADE B, Fy = 46,000 PSI
- ALL SHOP CONNECTIONS SHALL BE BOLTED OR WELDED. ALL FIELD CONNECTIONS SHALL BE BOLTED EXCEPT WHERE WELDING IS SPECIFICALLY CALLED FOR. BOLTS SHALL BE 3/4" MINIMUM WITH OPEN HOLES 1/16" LARGER, EXCEPT FOR COLUMN GROUT PLATES WHICH ARE 3/16" LARGER AND COLUMN BASE PLATES WHICH ARE 5/16" LARGER. CONNECTIONS NOT DETAILED SHALL BE DESIGNED FOR THE LOADS INDICATED ON THE DRAWINGS OR THOSE GIVEN IN THE AISC UNIFORM LOAD TABLES, WHICHEVER IS GREATER.

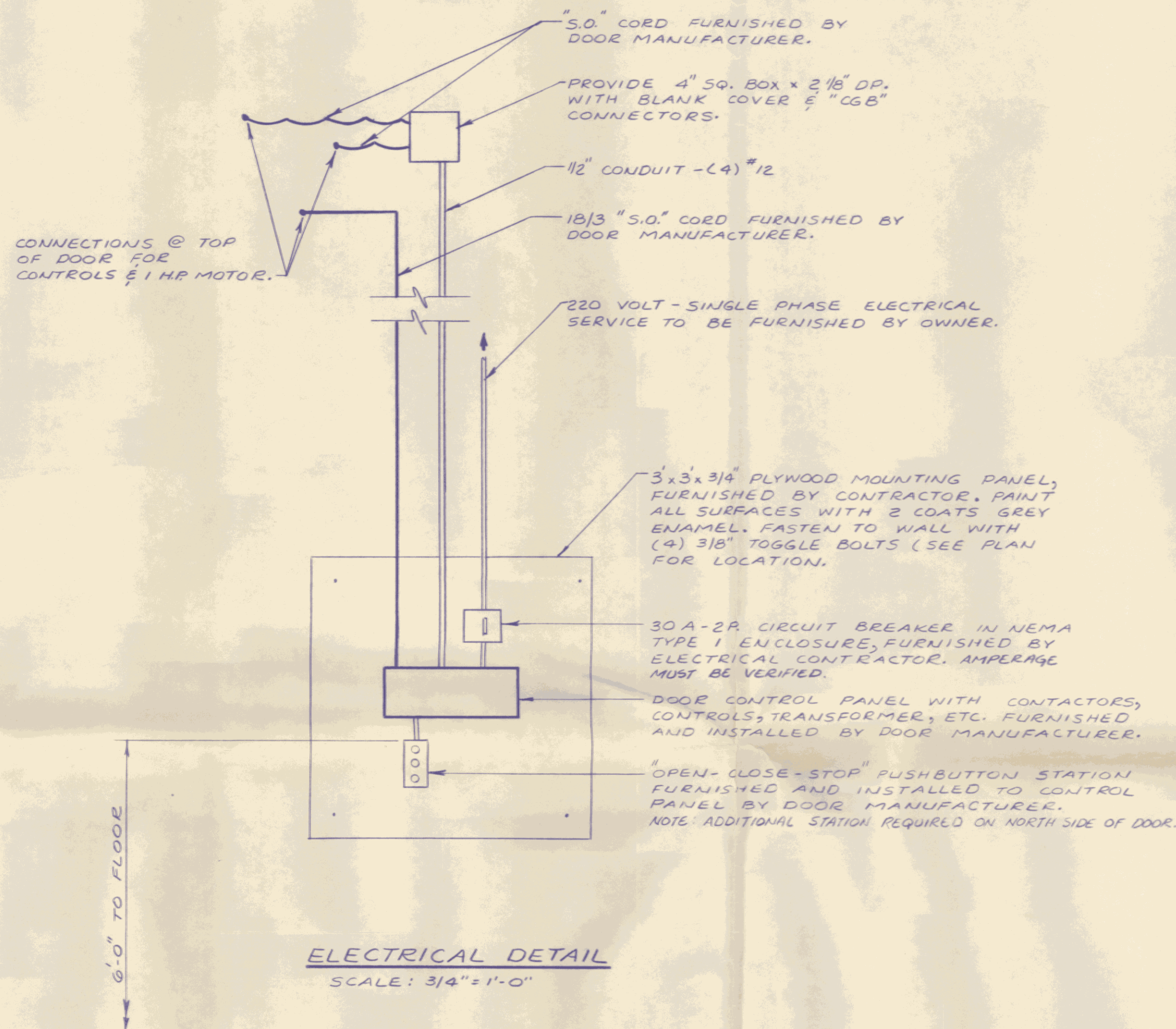
- ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED (MINIMUM 2 MILS DRY FILM THICKNESS) WITH AN APPROVED RUST INHIBITIVE PRIME PAINT. STEEL SHALL BE THOROUGHLY CLEANED PRIOR TO PAINTING. FIELD TOUCH UP WITH THE SAME PAINT WILL BE REQUIRED.
- THE STRUCTURAL STEEL CONTRACTOR SHALL PROVIDE ALL NECESSARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STEEL FRAME PLUMB AND SQUARE UNTIL THE PERMANENT BRACING AND SUPPORT DETAILS ARE INSTALLED.
- THERE WILL BE NO FIELD BURNING, CUTTING OR OTHER ALTERATIONS OF STRUCTURAL STEEL WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (ONE REPRODUCIBLE PRINT AND TWO BLUE PRINTS) TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION FOR THE STRUCTURAL STEEL.

BIFOLD DOOR NOTES

- HORIZONTAL BIFOLD DOOR SHALL BE FURNISHED AND INSTALLED BY THE OWNER.
- THE DOOR SHALL BE MANUFACTURED BY WILSON INDUSTRIAL DOORS, INC., WALWORTH, WISCONSIN. DOORS OF EQUAL QUALITY BY ALTERNATE MANUFACTURERS WILL BE CONSIDERED BY THE OWNER AND THE ENGINEER, BUT THE SUBSTITUTION MUST HAVE WRITTEN APPROVAL OF THE OWNER PRIOR TO RECEIPT OF BIDS. SUGGESTED ALTERNATE MANUFACTURERS ARE FLEMING STEEL COMPANY AND MOSHER DOORS, INC. DESIGN DETAILS ON THESE PLANS ARE FOR A WILSON DOOR; SHOULD AN ALTERNATE MANUFACTURER BE ACCEPTED, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REVISION OF THE DESIGN AND DETAILS TO ACCOMMODATE THE ALTERNATE DOOR. SAID REVISIONS MUST HAVE APPROVAL OF THE ENGINEER.
- THE DOOR SHALL BE PROVIDED WITH THE COLD WEATHER PACKAGE AND AUTOMATIC LOCKS. THE DOOR MUST BE FABRICATED SO THAT IT WILL ACCEPT METAL SIDING ON BOTH THE INTERIOR AND EXTERIOR SURFACES WITHOUT FIELD APPLIED STUDS OR GIRTS.
- INSTALLATION OF THE BIFOLD DOOR SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTION MANUAL, AND SHALL BE SUPERVISED BY A REPRESENTATIVE OF THE MANUFACTURER. ONE COPY OF THE MANUAL SHALL BE FURNISHED TO THE OWNER AND ONE TO THE ENGINEER PRIOR TO CONSTRUCTION.
- DOOR INSULATION SHALL BE 3/4" NYLON-REINFORCED, FOIL-BACKED, FIBERGLASS INSULATION.
- METAL SIDING SHALL BE MINIMUM 1/4" DEEP, .032 ALUMINUM WITH A BAKED ENAMEL FINISH. SIDING SHALL BE MANUFACTURED BY WHEELING CORRUGATING COMPANY, BUTLER MANUFACTURING COMPANY, UNITED STEEL DECK OR FABRAL. SIDING COLOR SHALL BE AS DETERMINED BY THE OWNER. SIDING BY ALTERNATE MANUFACTURER'S WILL BE CONSIDERED, BUT THE SUBSTITUTION MUST HAVE WRITTEN APPROVAL OF THE ENGINEER. SIDING CONFIGURATION SHALL BE SIMILAR TO FABRAL ULTRA-RIB 1. PROVIDE 3 EXTRA 10'-0" LONG SHEETS FOR THE OWNERS FUTURE USE.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (7 COPIES) TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION FOR THE FOLLOWING ITEMS:  
BIFOLD DOOR  
INSULATION  
METAL SIDING  
ELECTRICAL ITEMS

ELECTRICAL NOTES

- ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, LATEST EDITION, AND ALL STATE AND LOCAL CODES AND REGULATIONS.
- ALL ELECTRICAL CONTROL AND POWER WIRING SHALL BE INSTALLED UNDER THE DIRECT SUPERVISION OF THE MANUFACTURER'S REPRESENTATIVE.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY PERMITS AND SHALL PAY ALL INSPECTION FEES. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE OWNER A CERTIFICATE OF INSPECTION UPON COMPLETION OF THE PROJECT.
- ALL CONDUIT SHALL BE "EMT" WITH STEEL SET-SCREW COUPLINGS.
- ALL WIRE SHALL BE COPPER - "THHN" INSULATION.
- ALL S.O. CORD SHALL BE FURNISHED BY THE DOOR MANUFACTURER. ALL CONNECTIONS ON THE DOOR, TO CONTROLS AND TO MOTORS, SHALL BE INSTALLED AT THE FACTORY. WITH LEADS REQUIRED FOR CONNECTIONS TO REMOTE CONTROLS AS SHOWN ON "ELECTRICAL DETAIL" ON THESE DRAWINGS.
- DESIGN LOADS:  
WEIGHT OF DOOR FRAME = 1600 LBS.  
WEIGHT OF SIDING AND INSULATION = 1750 LBS. (MAXIMUM 2 PSF)  
TOTAL = 3350 LBS.  
WIND LOAD = 20 PSF



No.	DATE	REVISION

**Lawes Consulting Engineers, Inc.**  
WILLISTON, VERMONT  
ROUTE 2A

05495  
DIVISION OF BUILDINGS  
MONTPELIER, VERMONT  
05602

HANGAR DOOR  
NEWPORT STATE AIRPORT  
NEWPORT, VERMONT

SPECIFICATIONS AND DETAILS

DRAWN SOMA	PROJ. No. 8336
CHECKED TFB	DATE 4-27-84