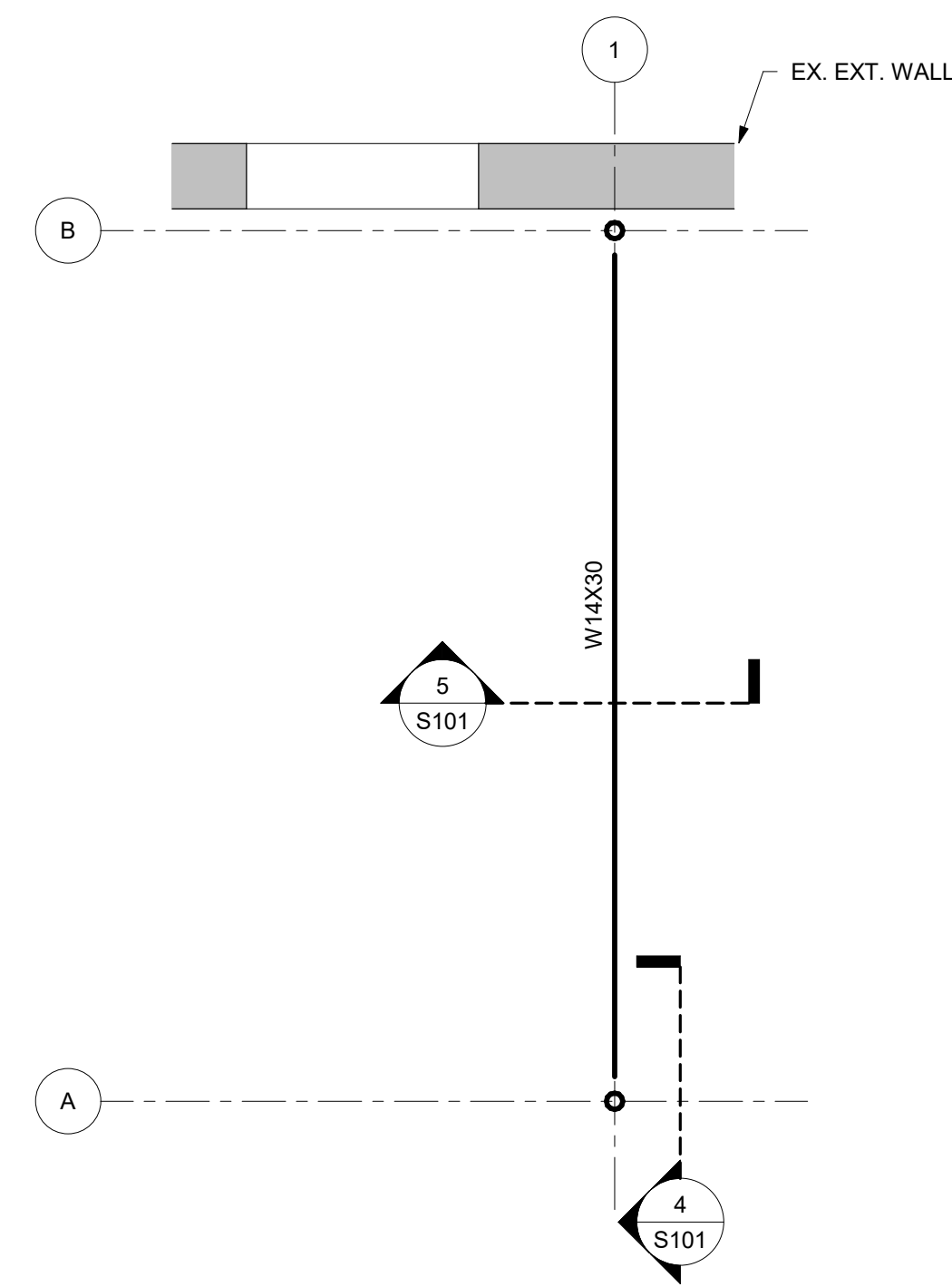
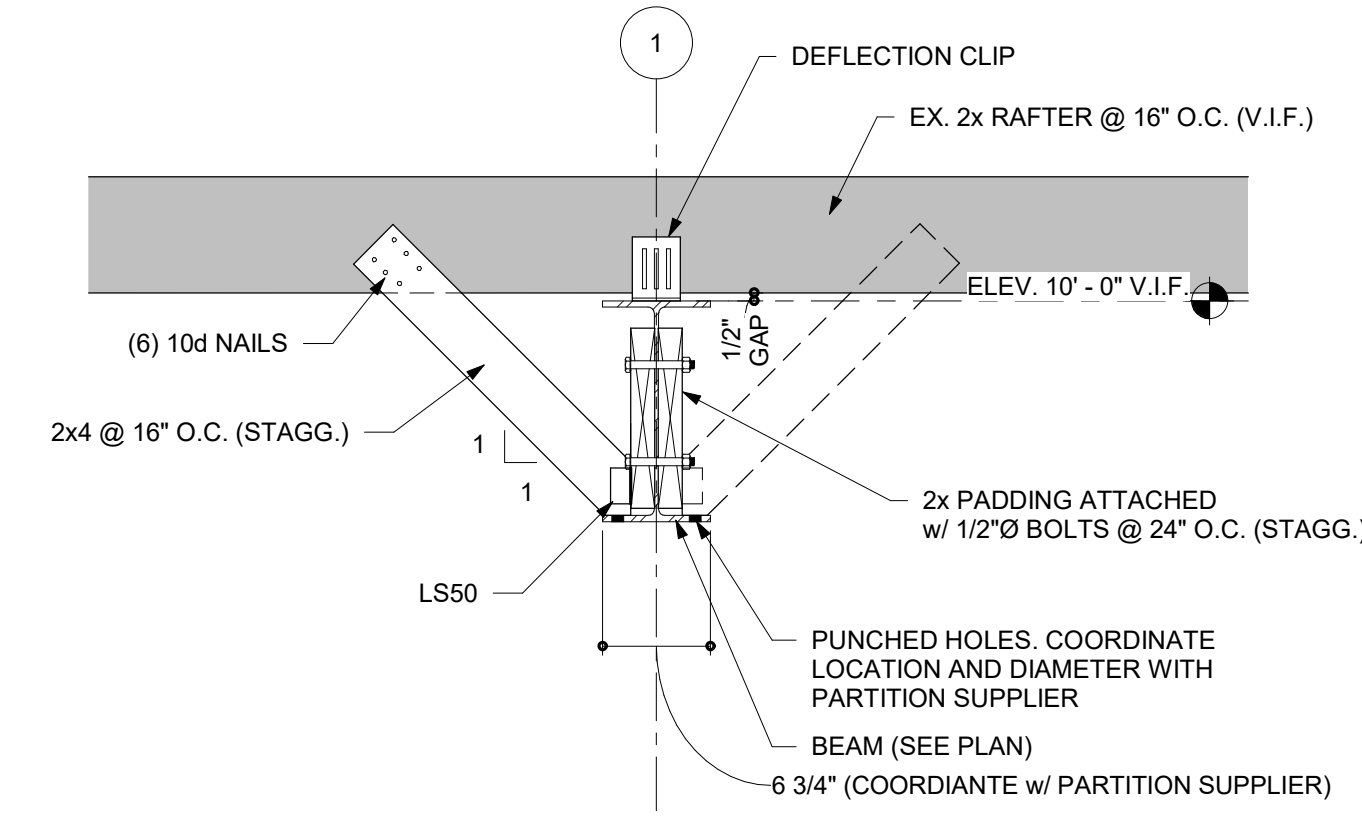


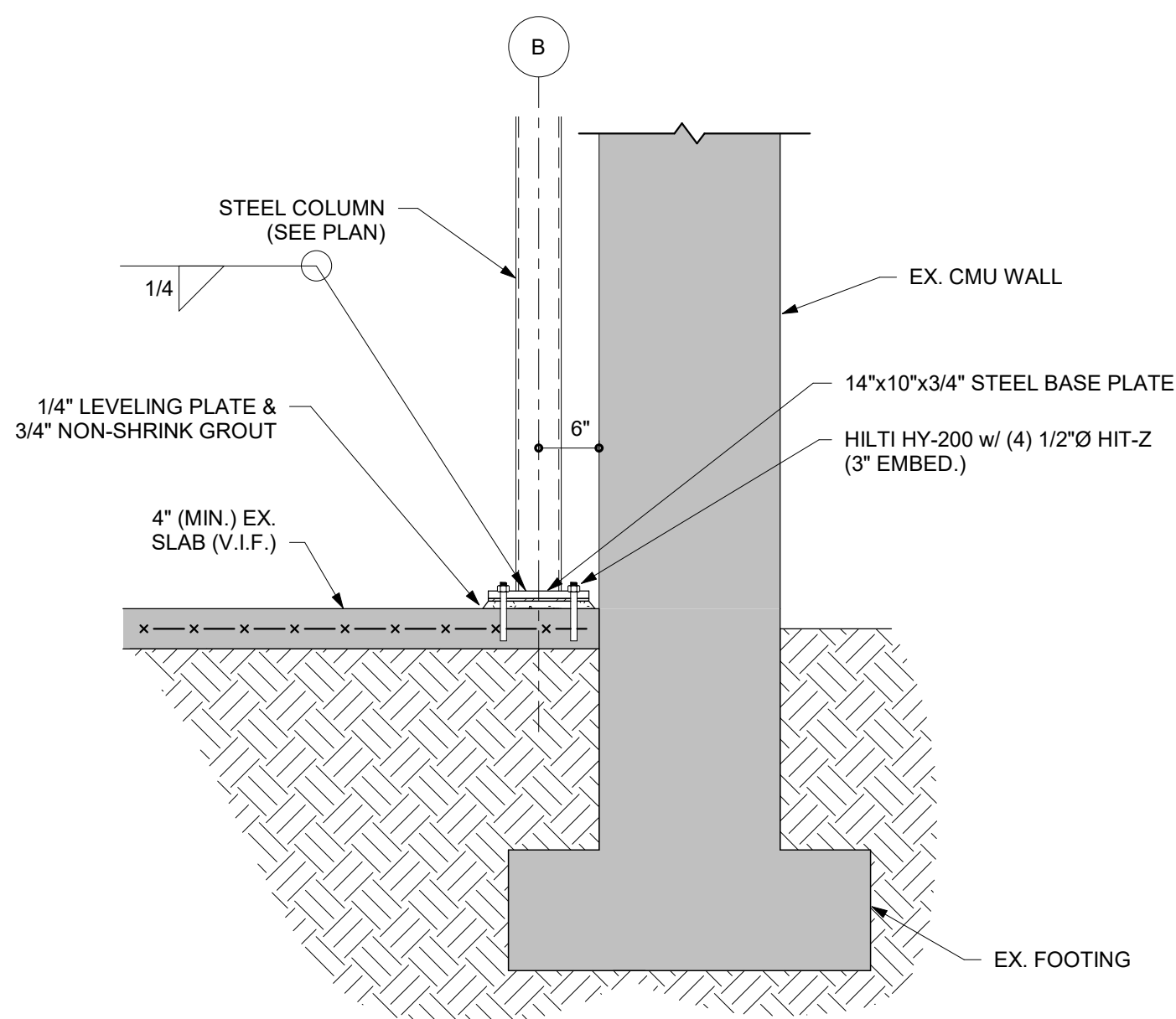
**1 FOUNDATION PLAN** SCALE: 1/4" = 1'-0"



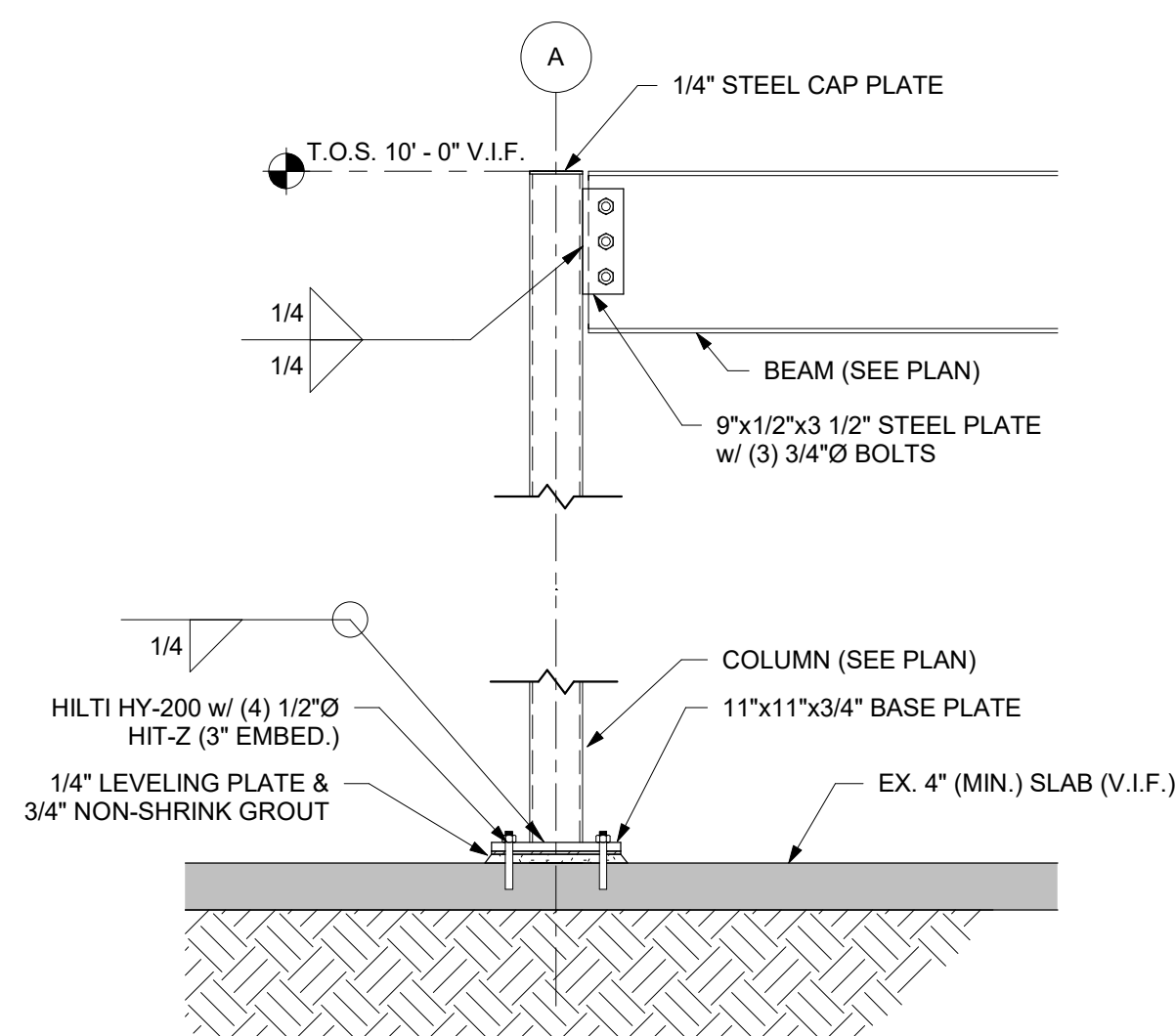
**2 PARTITION FRAMING PLAN** SCALE: 1/4" = 1'-0"



**5 SECTION** SCALE: 1" = 1'-0"



**3 SECTION** SCALE: 3/4" = 1'-0"



**4 SECTION** SCALE: 3/4" = 1'-0"

**GOVERNING CODES**

THIS PROJECT SHALL COMPLY WITH THE "INTERNATIONAL BUILDING CODE", INTERNATIONAL CODE COUNCIL, INC., 2012 EDITION, INCLUDING SPECIFICATIONS REFERENCED WITHIN. USE THE REFERENCED OR LATEST EDITIONS UNLESS NOTED OTHERWISE. MANUFACTURER SPECIFICATION AND LOCAL CODE REQUIREMENTS, WHEN IN EXCESS OF MINIMUM SPECIFICATION, SHALL CONTROL.

**STEEL**  
FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST SPECIFICATION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION STEEL CONSTRUCTION MANUAL.

STRUCTURAL STEEL SHALL CONFORM TO:  
 WF BEAMS: ASTM A992 (50KSI)  
 RECT. HSS: ASTM A500 GRADE B (48KSI)  
 ROUND HSS: ASTM A500 GRADE B (48KSI)  
 STEEL PIPE: ASTM A53 GRADE B (35KSI)  
 PLATES, ANGLES & CHANNELS: ASTM A36 (36KSI)  
 BOLTS: ASTM A325-N (3/4" O U N.O.)  
 ANCHOR BOLTS: ASTM F1554 GRADE 36

PROVIDE WELDED CONNECTIONS TYPICALLY UNLESS OTHERWISE NOTED.  
 WELDING ELECTRODES SHALL BE E70 SERIES.

WELDS SHALL BE MADE ONLY BY WELDERS WHO HAVE BEEN PREQUALIFIED BY TESTS OF THE AMERICAN WELDING SOCIETY, PRESCRIBED IN THE STRUCTURAL WELDING CODE, AWS D1.1 (LATEST EDITION).

ANY CONNECTION NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY THE STRUCTURAL STEEL FABRICATOR. SEE THE TYPICAL BEAM CONNECTION DETAILS ON THE DRAWINGS.

CONNECTIONS SHALL BE AISC STANDARD.  
 PROVIDE BASE PLATE FOR ALL STRUCTURAL STEEL BEAMS BEARING ON CONCRETE OR MASONRY. GROUT FOR SETTING BEARING SURFACES SHALL BE NON-SHRINK, NOT-STAINING.

ALL STEEL SUPPORT COLUMNS SHALL BEAR DIRECTLY ON MASONRY OR CONCRETE FOUNDATION SYSTEMS.

MISCELLANEOUS STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, AND SHALL BE ASTM A36. BOLTS SHALL BE HIGH STRENGTH 3/4" DIAMETER CONFORMING TO ASTM A325. WELDING SHALL BE DONE ONLY BY CERTIFIED WELDERS. WELD IN ACCORDANCE WITH THE AWS "STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION". STRUCTURAL STEEL SURFACES CAST INTO CONCRETE SHALL BE UNPAINTED.

SUBMIT STRUCTURAL STEEL SHOP DRAWINGS SHOWING COMPLETE DIMENSIONS AND DETAILS FOR APPROVAL PRIOR TO FABRICATION. THE STRUCTURAL STEEL SUBCONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING, VERIFICATION, AND FOR COORDINATION OF DIMENSIONS AND DETAILS WITH THE STRUCTURAL AND OTHER PORTIONS OF THE CONTRACT DRAWINGS. THE STRUCTURAL CONTRACT DRAWINGS SHALL NOT BE REPRODUCED AS SHOP DRAWINGS UNLESS THE STRUCTURAL ENGINEER'S APPROVAL IS OBTAINED IN WRITING.

**WOOD**

WOOD AND TIMBER CONSTRUCTION SHALL COMPLY WITH REFERENCED OR LATEST EDITIONS OF THE FOLLOWING STANDARDS:  
 1) NATIONAL FOREST PRODUCTS ASSOCIATION: "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION"  
 2) AMERICAN INSTITUTE OF WOOD CONSTRUCTION: "TIMBER CONSTRUCTION MANUAL"  
 3) AMERICAN PLYWOOD ASSOCIATION: "PLYWOOD DESIGN SPECIFICATION"  
 4) AMERICAN WOOD PRESERVERS ASSOCIATION STANDARDS

STRUCTURAL TIMBER SHALL BE STAMPED WITH A GRADE MARK IN ACCORDANCE WITH DOC P9 20 WITH MOISTURE CONTENT TO BE 19% MAXIMUM.

JOISTS, HEADERS, TRIMMERS AND EXTERIOR AND INTERIOR BEARING WALL STUDS SHALL BE S.P.F. #2 OR BETTER.  
 4x4 & 6x6 P.T. POSTS SHALL BE S. PINE #2 OR BETTER

LVLS (LAMINATED VENEER LUMBER) SHALL BE 1 3/4" WIDE, OF THE DEPTH SPECIFIED ON THE PLANS, AND SHALL BE SECURED TOGETHER AS DIRECTED BY THE MANUFACTURER.

LSL'S (LAMINATED STRAND LUMBER) SHALL BE 1 1/2" WIDE (BAND BOARDS FOR PREFABRICATED FLOOR JOISTS SHALL BE 1 1/4"), OF THE DEPTH SPECIFIED ON THE PLANS, AND SHALL BE SECURED TOGETHER AS DIRECTED BY THE MANUFACTURER.

PSL'S (PARALLEL STRAND LUMBER) SHALL BE OF THE WIDTH AND DEPTH SPECIFIED ON THE PLANS, AND SHALL BE SECURED TOGETHER AS DIRECTED BY THE MANUFACTURER.

GLULAMS (LAMINATED TIMBER) SHALL BE OF THE WIDTH AND DEPTH SPECIFIED ON THE PLANS.

PREFABRICATED WOOD I-JOISTS: PREFABRICATED WOOD I-JOISTS SHALL BE APPROVED BY A RECOGNIZED TESTING AGENCY AND COMPLY WITH ASTM D 5955. THEY SHALL BE DESIGNED TO CARRY ALL LIVE AND DEAD LOADS WITH THE LIVE LOAD DEFLECTION NOT TO EXCEED L/800 (FLOOR) AND L/240 (ROOF). THE MANUFACTURER SHALL SUPPLY ALL REQUIRED HANGERS, SHEER PANELS, BLOCKING PANELS, AND OTHER SPECIAL HARDWARE. THE MANUFACTURER SHALL SUBMIT ERECTION DRAWINGS TO THE ENGINEER PRIOR TO FABRICATION. ALL PREFABRICATED WOOD I-JOISTS SHALL BE INSTALLED AND BRACED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

WOOD EXPOSED TO THE ELEMENTS, WOOD IN CONTACT WITH CONCRETE OR MASONRY, AND WOOD DESIGNATED "PRESERVATIVE TREATED" SHALL BE NO. 2 GRADE SOUTHERN PINE OR BETTER & PRESERVATIVE TREATED IN ACCORDANCE WITH AWPA U1 FOR THE SPECIES. PRODUCT, PRESERVATIVE AND END USE. FIELD CUT ENDS, NOTCHES AND DRILLED HOLES OF P.T. WOOD SHALL BE TREATED IN THE FIELD IN ACCORDANCE WITH AWPA M4.

PLYWOOD: APA EXPOSURE 1, GROUP 1 RATED SHEATHING, MIN. 4 PLY, MIN. SPAN RATING OF 32/16. U.N.O. USE 3/4" NOM. THICKNESS FOR FLOORS, 5/8" FOR ROOFS, AND 1/2" FOR WALLS. FOR FLOORS, USE TONGUE-AND-GROOVE PLYWOOD GLED AND SCREW-FASTENED. FOR ROOFS, USE PLYWOOD CLIPS AT ALL UNSUPPORTED BUTT JOINTS. PLYWOOD SHALL BE MARKED PER DOC P5-1.

LUMBER SCHEDULE (MINIMUM ALLOWABLE PROPERTIES)				
SPECIES	F <sub>t</sub> (PSI)	F <sub>v</sub> (PSI)	E (KSI)	S.G.
LVL	2,600	285	1,800	0.50
LSL	1,700	400	1,300	0.50
PSL (BEAM)	2,900	290	2,000	0.50
PSL (COLUMN)	2,400	190	1,800	0.50
GLULAM (2FVS SP/SP)	2,400	165	1,700	0.50
S.P.F. #2	875	135	1,400	0.42
S. PINE #2	VARIES BY DIMENSIONS			0.50

**DEDC, LLC**

FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL ENGINEER  
 315 SOUTH CHAPEL STREET  
 NEWARK, DELAWARE 19711  
 302-738-7172 fax: 302-738-7175

PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A FULLY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF DELAWARE.

LICENSE NO. 18535  
 EXPIRATION DATE: 06/30/2022

PROJECT TITLE

**DTCC HEALTHCARE CENTER OF EXCELLENCE**

TERRY CAMPUS  
 100 CAMPUS DRIVE,  
 DOVER DE

SHEET TITLE

**FOUNDATION PLAN**

ISSUE BLOCK

Mark	Date	Description
3	04/01/21	ISSUED FOR BIDDING
2	12/18/20	ISSUED FOR FINAL OWNER REVIEW

PROJECT NO.: 2020179.00  
 DATE: 01.15.2021  
 SCALE: As indicated  
 DRAWN BY: HBE PROJ MGR: JMW/JKB

**S101**  
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