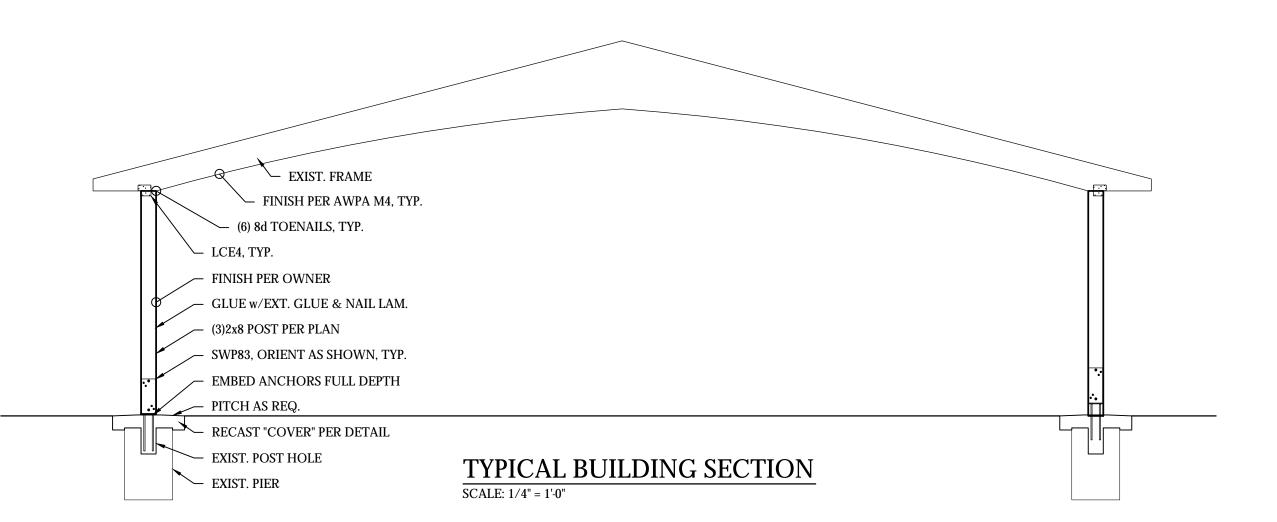
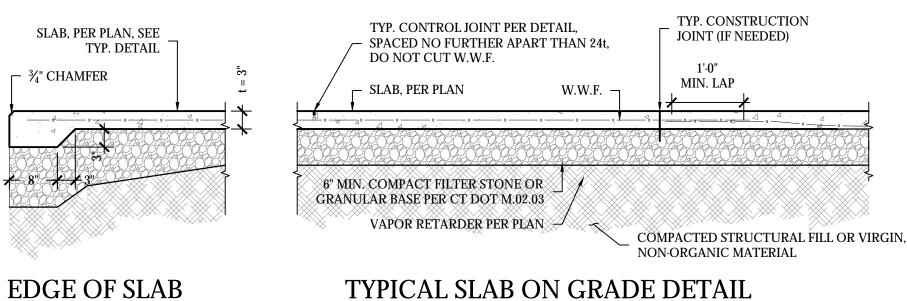


FOUNDATION PLAN

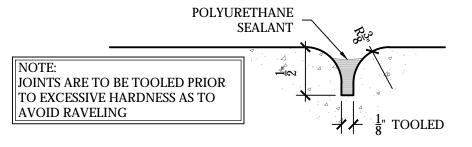
DESIGN LOADS TABLE

SNOW LOADS		WIND LOADS		
GROUND SNOW LOAD (Pg)	30 PSF	BASIC WIND SPEED (3-SEC) 125 MPH		
FLAT ROOF SNOW LOAD (Pf)	30 PSF	RISK CATEGORY II		
SNOW EXPOSURE FACTOR (Ce)	1.0	WIND EXPOSURE B		
IMPORTANCE FACTOR (Is)	1.0	INTERNAL PRESSURE COEFF. +/- 0.18		
THERMAL FACTOR (Ct)	1.0	COMPONENTS & CLADDING PER ASCE 7-10 (CHAPTER 30)		
DEFLECTION TOLERANCES		SEISMIC (EARTHQUAKE) LOADS		
PER IBC TABLE 16.4.3 U.N.O.		IMPORTANCE FACTOR (Ie) 1.0		
ELEMENT	LIVE DEAD+LIVE	MAPPED SPECTRAL RESPONSE ACCELERATION		
FLOORS	L/360 L/240	Ss 0.165 S1 0.059		
ROOFS	L/240 L/180	SITE CLASSIFICATION D		



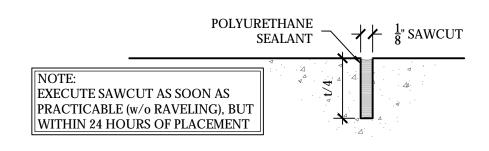


TYPICAL SLAB ON GRADE DETAIL SCALE: 3/4" = 1'-0"



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

TYPICAL TOOLED CONTROL JOINT DETAIL NOT TO SCALE



TYPICAL CUT CONTROL JOINT DETAIL NOT TO SCALE

W1. ALL FRAMING EXPOSED TO THE WEATHER OR GROUND CONTACT SHALL BE PRESSURE TREATED (PT) AS REQUIRED. AND SHALL BE SOUTHERN YELLOW PINE #2 (SYP2) OR SUPERIOR. ALL NON-EXPOSED FRAMING LUMBER SHALL BE HEM-FIR NORTH #2, DOUGLAS FIR #2, OR BETTER UNLESS OTHERWISE NOTED. ALL PRESSURE FREATED LUMBER (ACQ) LEVEL OF TREATMENT SHALL BE IN ACCORDANCE W/AWPA STANDARDS FOR RETENTION BASED ON END USE APPLICATION (ABOVE GROUND USE, GROUND CONTACT, DECKING, ETC.).

- W2. ALL CUT ENDS, NOTCHES, AND DRILLED HOLES IN PT LUMBER MUST BE FIELD TREATED PER AWPA M4 STANDARDS, SUCH AS WITH COPPER NAPHTHENATE. OUR OFFICE RECOMMENDS THAT ALL NEW PT LUMBER OPEN TO WEATHER BE TREATED WITH A PENETRATING WATER REDUCER (SUCH AS BOILED LINSEED OIL) IN ORDER TO INCREASE THE LIFE OF THE STRUCTURE.
- W3. ALL METAL FRAMING CONNECTIONS SHALL BE SIMPSON STRONG TIE (SST) OR APPROVED EQUAL.
- W4. ALL METAL HANGERS TO BE GALVANIZED AS FOLLOWS: PRESSURE TREATED WOOD: G-185
- SEE PLAN FOR SKEW / SLOPE REQUIREMENTS. ALL HANGERS TO BE FULLY NAILED PER MANUFACTURER'S NAILING SCHEDULE.
- W6. ALL WOOD FRAMING CONNECTIONS SHALL BE FASTENED IN ACCORDANCE WITH "FASTENING SCHEDULE" OF 2009 IRC, UNLESS OTHERWISE INDICATED.
- W9. UNLESS NOTED OTHERWISE, ALL NAILS ARE TO BE COMMON WIRE NAILS, WITH CORROSION RESIDENCE APPROPRIATE TO THE USE. SELECT FASTENERS OF SIZE
- THAT WILL NOT FULLY PENETRATE MEMBERS WHERE OPPOSITE SIDE WILL BE EXPOSED TO VIEW OR WILL RECEIVE FINISH MATERIALS. MAKE TIGHT CONNECTIONS BETWEEN MEMBERS. INSTALL FASTENERS WITHOUT SPLITTING WOOD. DRIVE NAILS SNUG BUT DO NOT COUNTERSINK NAIL HEADS UNLESS OTHERWISE INDICATED. IF POST-FRAME NAILS (RING SHANK OR SPIRAL) ARE SPECIFIED, THE DIAMETER WILL BE BASED ON THE CALL OUT ON PLAN, INTERPRETED AS DESCRIBED BELOW. DIAMETERS MUST MEET OR EXCEED THE FOLLOWING BASED ON THE CALL-OUTS IN THE PLANS:
- W10. BOLTS SHALL BE ASTM A 307-GRADE A STEEL, WITH ASTM A 563 HEX NUTS AND, WHERE INDICATED, FLAT WASHERS.

- W13. STACK LUMBER FLAT WITH SPACERS BENEATH AND BETWEEN EACH BUNDLE TO PROVIDE AIR CIRCULATION. PROTECT LUMBER FROM WEATHER BY COVERING WITH WATERPROOF SHEETING, SECURELY ANCHORED. PROVIDE FOR AIR CIRCULATION AROUND STACKS AND UNDER COVERINGS.

STRUCTURAL EARTHWORK

- TAKEN AS 10' BEYOND THE OUTER FOOTING EDGE. THIS MAY BE VERIFIED VIA TEST PITS OR BORINGS, AS NECESSARY.
- (3-POINT CURVE ACCEPTABLE).
- E5. ALL STRUCTURAL FILL IS TO BE SOUND/DURABLE MATERIAL FREE OF DEBRIS, ORGANICS, ASPHALT AND VOIDS, COMPACTED TO 95% OF ITS MAXIMUM DRY
- 50 85 35 - 80

E6. TOPSOIL PLACED OVER STRUCTURAL FILL IS TO HAVE NO MORE THAN 85% PASSING THE 140 SIEVE (D 85 20.1 mm), AND MUST BE SEPARATED FROM FILTER STONE WITH EITHER FILTER FABRIC OR NO LESS THAN 4" OF STRUCTURAL FILL.

EQUAL

FOOT OR FEET

HORIZONTAL

INTERIOR

LATERAL

MAXIMUM

MINIMUM

ON CENTER

PROJECTION

LONGITUDINAL

MANUFACTURER

OUTER DIAMETER

OPPOSITE HAND

POUNDS PER SQ. FT

POUNDS PER SQ. IN.

PRESSURE TREATED

REINFORCEMENT

REQUIRED

SIMILAR

SQUARE

ROUGH OPENING

TO BE DETERMINED

TO BE REMOVED

THREADED

SQUARE FEET

VERIFY IN FIELD

WELDED WIRE FABRIC

U.N.O.= U.O.N. = UNLESS NOTED OTHERWISE

VERTICAL

TYPICAL

NOT TO SCALE

INNER DIAMETER

GAUGE (THICKNESS)

HOT DIPPED GALVANIZED

INTERNATIONAL BLDG. CODE

INTERNATIONAL RES. CODE

DEVELOPMENT LENGTH

CONC. COMPRESSIVE STRENGTH

BTWN. =

CLR. =

COORD.=

CONC. =

CONN. =

CONT. =

DBL. = (2) =

DEG. = ° =

DIA. = \emptyset =

DWL. =

EQ. =

FTG. =

H.D.G. =

IBC =

I.D. =

LAT. =

NTS =

O.C. =

O.D. =

O.H. =

PROJ. =

SIM. =

T.B.D. =

T.B.R. =

SQ. FT. =

VERT. =

W.W.F. =

V.I.F. =

LONG. =

TYP. PIER PLAN VIEW DETAIL

¾" ISOLATION JOINT, TYP.

PITCH AWAY FROM POST 2% MIN.

¾" EXT. CONCRETE

(4) #5 FROM SWP83

REMOVE POST

EXIST. FTG. (55gal) ASSURE %" CLEAR

DRILL OR RAISE

PRECAST PIERS MAY BE

ANCHORAGE FOR THE

¾" EXTERIOR CONCRETE

EXIST. FTG. BELOW (55gal)

¾" ISOLATION JOINT

5ksi EXPANSIVE GROUT

SET BAR IN EXIST. HOLE

RE-CAST EXIST. PAD

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

POST BASE IS PROVIDED

USED IN LIEU OF EXISTING PIERS, IF ADEQUATE

COL. BASE AS REQ.

5ksi EXPANSIVE GROUT

FINISH GRADE -

____ 2'-0" ____

TYP. PIER DETAIL

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

ABBREVIATIONS LEGEND AT OWNER'S DISCRETION BETWEEN COORDINATE CONCRETE CONNECT CONTINUOUS DOUBLE DEGREES DIAMETER DO NOT SCALE ENGINEER OF RECORD ELEVATION EMBEDMENT

 \simeq

PROJ. ENGINEER

WOOD NOTES

LCE4 ISOMETRIC DETAIL

SWP83 ISOMETRIC DETAIL

NOT TO SCALE

NOT TO SCALE

W5. ALL BOLTS, NAILS AND ASSOCIATED FASTENERS EXPOSED TO THE WEATHER SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM WEIGHT OF

W7. TREATING THE CUT ENDS OF LUMBER WITH WATER REPELLENT SUCH AS LINSEED OIL OR MOST COMMON PAINTS WILL INCREASE THE RESILIENCY OF ANY FRAMING IN THE EVENT OF FUTURE LEAKING/MOISTURE.

W8. ALL PROPRIETARY HARDWARE SHALL BE INSTALLED IN COMPLETE ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

16d=0.162" ø (0.177" POST-FRAME) 10d=0.148" ø 8d=0.131" ø (0.135" POST-FRAME)

W11. COMPLY WITH AF&PA'S WCD 1, "DETAILS FOR CONVENTIONAL WOOD FRAME CONSTRUCTION," UNLESS OTHERWISE INDICATED.

W12. DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS UNLESS OTHERWISE INDICATED.

EI. IN ABSENCE OF A SUB-SURFACE EXPLORATION AND GEOTECHNICAL REVIEW, THESE DESIGNS REQUIRE THAT IT BE FIELD VERIFIED THAT NO MATERIALS CONTAINING ORGANICS, VOIDS, DEBRIS, RUBBLE, PLASTICS, FATTY CLAYS, ASH, OR SOLUBLE MATERIAL BE PRESENT WITHIN THE BEARING AREA, WHICH IS TO BE

E2. FROM BOTTOM OF FOOTING TO UNDERSIDE OF SLAB, FILL SHALL BE PLACED IN 8" LOOSE LAYERS AND COMPACTED TO 95% MAXIMUM DENSITY PER ASTM D-1557

DENSITY AS PER ASTM D-1557 (3-POINT CURVE ACCEPTABLE), AND IS TO CONFORM TO THE FOLLOWING GRADATION:

30 - 75 a. 0-5% IF REPROCESSED ASPHALT IS USED

PLACING DRAWINGS SHALL SHOW THE NUMBER AND LOCATION OF ALL BAR

C5. MINIMUM DEVELOPMENT LENGTH AND LAP SPLICE LENGTH OF REINFORCING BARS SHALL BE AS FOLLOWS (IF fc=3000 PSI, 24" O.C. OR CLOSER):

LAP SPLICE LENGTH BAR SIZE DEVELOPMENT LENGTH* *NO EPOXY COATED REBAI

C4. BAR DETAILING: IN ACCORDANCE WITH THE "ACI DETAILING MANUAL - 1988".

INTERNATIONAL BUILDING CODE, AS AMENDED FOR THE 2018

AND METHODS OF CONSTRUCTION AND SAFETY ON THE JOB SITE.

CONCRETE INSTITUTES "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR

ADMIXTURE OR PLASTICIZER AND SHALL HAVE A DESIGN SLUMP OF 5" WITH

A MAXIMUM PLACEMENT SLUMP OF 6.5". HIGHER SLUMPS ARE ALLOWABLE IF

QUIKRETE ANCHORING CEMENT, KWIXSET EXPANDING CEMENT, OR

CONNECTICUT BUILDING CODE.

BUILDINGS" (ACI 301-95).

EXPANSIVE GROUT

APPROVED EQUAL.

fc = 3500 PSI AT 28 DAYS

w/c RATIO = 0.50 (MAX)

AIR ENTRAINMENT = 6%

SUPPORTS AND ACCESSORIES.

C3. REINFORCING STEEL: ASTM A615 - GRADE 60.

CONCRETE FOR EXTERIOR SLABS:

SHALL BE AS FOLLOWS: CONCRETE POURED AGAINST EARTH.... CONCRETE POURED IN FORMS BUT EXPOSED TO EARTH OR WEATHER: 5 BARS AND SMALLER..... 1-1/2" LARGER THAN #5 BARS.....

C7 WHERE WELDED WIRE FARRIC IS LISED, SHEFTS SHALL BE SLIPPORTED ON CLASS 3 SUPPORTS WITH SAND PLATES IN SUFFICIENT QUANTITY TO MAINTAIN THE FABRIC'S LOCATION IN THE SLAB. PRECAST CONCRETE BLOCK/BRICK SHALL NOT BE USED.

C14. U.N.O., SLABS ON GRADE SHALL BE CAST IN ALTERNATE PATTERNS OR SAW CUT INTO AREAS NOT EXCEEDING 900 S.F. OR AS INDICATED ON PLAN.

F9. DO NOT BACKFILL FOUNDATION UNTIL FIRST FLOOR DECK IS INSTALLED OR UNTIL ADEQUATE TEMPORARY SHORES ARE INSTALLED.

F6. ALL FOOTINGS SHALL BE BELOW UNSUITABLE EXISTING FILLS AND ORGANIC MATERIALS.

F7. ALL EXCAVATION WORK SHALL CONFORM TO OSHA 29CFR 1926 SUBPART P-EXCAVATIONS.

DOCUMENTS, SUBMIT TWO PRINTS, DO NOT PROCEED WITH FABRICATION WITHOUT SHOP, DRAWING REVIEWED BY THE ENGINEER OF RECORD. S4. STORE MATERIALS TO PERMIT EASY ACCESS FOR INSPECTION AND IDENTIFICATION. KEEP STEEL MEMBERS OFF GROUND AND SPACED BY USING PALLETS DUNNAGE, OR OTHER SUPPORTS AND SPACERS. PROTECT STEEL MEMBERS AND PACKAGED MATERIALS FROM CORROSION AND DETERIORATION. DO NOT STORE MATERIALS ON STRUCTURE IN A MANNER THAT MIGHT CAUSE DISTORTION, DAMAGE, OR OVERLOAD TO MEMBERS OR SUPPORTING STRUCTURES. REPAIR OR REPLACE DAMAGED MATERIALS OR STRUCTURES AS DIRECTED. STORE FASTENERS IN A PROTECTED PLACE IN SEALED CONTAINERS WITH MANUFACTURER'S

.ASTM A233 E 70 SERIES

LABELS INTACT. CLEAN AND RELUBRICATE BOLTS AND NUTS THAT BECOME DRY OR RUSTY BEFORE USE. S5. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY (AWS) STRUCTURAL WELDING CODE STEEL D1.1, LATEST EDITION, BY CERTIFIED WELDERS AND QUALIFIED WELDING PROCEDURES. SHIELDED METAL ARC METHOD OF WELDING SHALL BE USED FOR ALL WORK. WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES SHALL BE IN ACCORDANCE WITH THE AISC AND AWS SPECIFICATIONS. ANY

ASTM A307 STD NUT/WASHER, 1 ¾" O.D. WASHER AT WOOD

S2. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST PROVISIONS OF THE "SPECIFICATIONS FOR THE DESIGN

S3. SHOP AND ERECTION DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR FOR ALL STRUCTURAL STEEL WORK IN ACCORDANCE WITH THE CONTRACT

FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, 14TH EDITION AND THE "AISC

STRUCTURAL STEEL DAMAGED BY WELDING IS TO BE REPLACED OR REINFORCED AS ACCEPTABLE TO THE STRUCTURAL ENGINEER. S6. ALL INTERIOR/FULLY PROTECTED STEEL SHALL BE SHOP PRIMED AT A MINIMUM. SHOP PRIMER PAINT SHALL BE TNEMEC 88-555 METAL PRIMER. RUSTOLEUM 678.

DUPONT 771. (MINIMUM 1.5 DFT), OR SSPC-PAINT 25 (SUCH AS INTREPID 200R26). ANY COATING APPLIED OVER PRIMER MUST BE OF A STRONGLY CONTRASTING COLOR. ALL AREAS PRIMER DAMAGED DURING INSTALLATION MUST BE MECHANICALLY CLEANED TO AN SP3 SURFACE AND TOUCHED UP PER THE MANUFACTURERS RECOMMENDATIONS. AREAS AROUND WELD DAMAGED MUST BE STRIPPED SUFFICIENTLY PAST THE WELD TO REMOVE ANY PAINT

ALL STEEL EXPOSED TO WEATHER (PER IBC "WEATHER-EXPOSED SURFACE") MUST BE HOT DIPPED GALVANIZED (HDG) PER ASTM A123. ALL AREAS OF HDG DAMAGED BY OPERATIONS, ESPECIALLY WELDING, ARE TO BE REPAIRED PER ASTM A780 SOLDER METHODOLOGY UPON COMPLETION OF THE OPERATION TO THE WRITTEN SATISFACTION OF THE ENGINEER.

S8. MINIMUM FILLET WELD SIZE SHALL BE 1/4" UNLESS OTHERWISE SHOWN ON THE DRAWINGS. RECORDS OF WELDER QUALIFICATIONS SHALL BE MAINTAINED AND AVAILABLE FOR OWNERS REVIEW.

S9. ALL STEEL AT AND BELOW FINISHED GRADE OR FLOOR SLAB SHALL RECEIVE TWO (2) COATS OF BITUMINOUS PAINT - OR 3 MINIMUM CONCRETE COVER.

FOUNDATION / SOILS

F1. FOUNDATION ELEMENTS SHALL BE DESIGNED FOR THE FOLLOWING ALLOWABLE BEARING CAPACITY: ALLOWABLE SOIL BEARING PRESSURE = 3000PSF F2. THE FOOTINGS MAY FALL IN BEDROCK. WHERE BLASTING IS NECESSARY, THE BEDROCK SHOULD BE BLASTED TO A DEPTH OF AT LEAST 2 FEET BELOW THE FOOTINGS AND SLABS ON GRADE. PREPARATION OF THE BLASTED ROCK SURFACE FOR FOOTINGS WILL INCLUDE EXCAVATING THE ROCK SUFFICIENTLY TO PERMIT PLACEMENT OF A MINIMUM 8" LAYER OF CRUSHED STONE, SUCH AS FILTER STONE, BENEATH THE FOOTINGS AND SLABS ON GRADE, THE STONE LAYER SHALL BE COMPACTED WITH A VIBRATORY ROLLER TO FILL THE FRACTURES IN THE ROCK AND TO PROVIDE A UNIFORMLY STIFF SURFACE TO RECEIVE FOOTINGS AND SLABS. LOOSE BLASTED ROCK (OVER-BLAST) SHOULD BE REMOVED AND REPLACED WITH ACCEPTABLE STRUCTURAL FILL AND PROOF ROLLED. A PRECONDITION BLAST SURVEY SHALL BE MADE FOR ANY PROPERTIES THAT MAY BE AFFECTED BY BLASTING.

A 6" LAYER OF SOUND, DURABLE CLEAN (LESS THAN 5% PASSING THE #200 SIEVE) CRUSHED STONE WITH 100% PASSING THE 1 ½" SIEVE, SHALL BE PLACED

IMMEDIATELY BENEATH THE SLAB-ON-GRADE. BENEATH THE CRUSHED STONE LAYER, STRUCTURAL FILL SHALL BE PLACED AS REQUIRED AFTER REMOVAL OF ANY EXISTING FILL AND ORGANIC MATERIALS. FILTER STONE MAY BE USED IN LIEU OF THIS NOTE PER THE STRUCTURAL EARTHWORK NOTES.

F4. SEE ARCHITECTURAL DRAWINGS FOR WATERPROOFING REQUIREMENTS. F5. WHERE THE GROUNDWATER TABLE IS ENCOUNTERED, A MINIMUM OF 6" OF %" WASHED CRUSHED STONE SHALL BE PLACED UNDER FOOTINGS; ALTERNATELY LTER STONE MAY BE USED PER THE STRUCTURAL EARTHWORK NOTES.

F8. ESTIMATED ELEVATIONS OF BOTTOM OF FOOTINGS ARE AS SHOWN ON FOUNDATION PLANS AND ARE APPROXIMATE. THESE ELEVATIONS SHALL BE ADJUSTED TO ACTUAL LEVELS OF APPROVED BEARING STRATA FOUND UPON EXCAVATION. ANY UNUSUAL CONDITIONS SHALL BE CALLED TO THE ATTENTION OF THE

F10. VAPOR BARRIER SHALL BE POLYOLEFIN HAVING A MINIMUM THICKNESS OF 10 MILS (.010), FREE OF PINHOLES AND OTHER BLEMISHES, AND ALL JOINTS SHALL BE

G3. THE GENERAL CONTRACTOR SHALL FURNISH COMPLETE SETS OF DRAWINGS G4. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 811 AT LEAST 2 FULL WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. CONCRETE / REINFORCED CONCRETE

CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES

STRUCTURAL STEEL

WELDING ELECTRODES...

S1. MATERIALS:

CHANNELS.

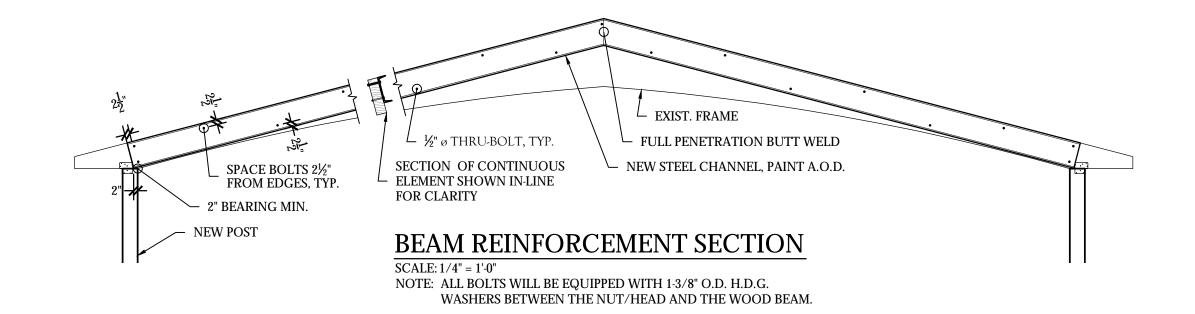
S7. VERIFY AND COORDINATE REQUIREMENTS, DIMENSIONS AND LOCATIONS OF MECHANICAL EQUIPMENT PRIOR TO START OF FABRICATION.

E3. FROM STRIPLINE TO BOTTOM OF FOOTING, FILL SHALL BE PLACED IN 8" LOOSE LAYERS AND COMPACTED TO 95% MAXIMUM DENSITY AS PER NOTE E2. E4. FOUNDATIONS ARE DESIGNED FOR A SOIL BEARING VALUE OF 3000 P.S.F..

C15. U.N.O., SLABS ON GRADE SHALL BE EITHER FULLY WET CURED OR CONTAIN CONTROL JOINTS AT A MAXIMUM SPACING OF 24*THICKNESS (72" FOR A 3" SLAB) IN EACH ORTHOGONAL DIRECTION. L/240 | L/180 SEISMIC DESIGN CATEGORY

		NEW 6x6 POST @ NEW BEAM, STRAP WITH CS16 BOTH SIDES & TOE NAIL w/(4) 8d NAILS, SPACED AROUND FACES	
	(3) 1.75x14" LVL, UNDER EXIST RIDGEBOARD, ATTACH CENTRAL PLY TO EXIST. w/LSTA9 @ 24" O.C. & TOE NAIL w/8d @ 12" O.C. DURING ASSEMBLY, THEN SCREW LAMINATE PLIES w/3" #10 EXT. SCREWS @ 8" O.C. STAGG.		
1		— HHUS5.5/10 —:=:=:=:=:=:=:=:=:=:=:=:=:=:=:=:=:=:=:=	
	MC13x35, BOLT TO EXIST. O		<u>ソ</u>
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FOUNDATION PLAN SCALE: 1/4" = 1'.0"



GENERAL STRUCTURAL NOTES

- G1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2021 INTERNATIONAL BUILDING CODE, AS AMENDED FOR THE 2022 CONNECTICUT BUILDING CODE.
- G2. THE GENERAL CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR MEANS AND METHODS OF CONSTRUCTION AND SAFETY ON THE JOB SITE.
- G3. THE GENERAL CONTRACTOR SHALL FURNISH COMPLETE SETS OF DRAWINGS TO ALL SUBCONTRACTORS.
- G4. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 811 AT LEAST 2 FULL WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

DESIGN LOADS TABLE

SNOW LOADS		WIND LOADS		
GROUND SNOW LOAD (Pg)	30 PSF BASIC WIND SPEED (3-SEC)		125 MPH	
FLAT ROOF SNOW LOAD (Pf)	30 PSF	RISK CATEGORY	II	
SNOW EXPOSURE FACTOR (Ce)	1.0	WIND EXPOSURE	В	
IMPORTANCE FACTOR (Is)	1.0	INTERNAL PRESSURE COEFF.	+/- 0.18	
THERMAL FACTOR (Ct)	1.0	COMPONENTS & CLADDING	PER ASCE 7-10 (CHAPTER 30)	
DEFLECTION TOLERANCES		SEISMIC (EARTHQUAKE) LOADS		
PER IBC TABLE 16.4.3 U.N.O.		IMPORTANCE FACTOR (Ie)	1.0	
ELEMENT	LIVE DEAD+LIVE	MAPPED SPECTRAL RESPONSE ACCELERATION		
FLOORS	L/360 L/240	Ss S1	$0.165 \\ 0.059$	
ROOFS	L/240 L/180	SITE CLASSIFICATION	D	
WALLS	L/240 L/180	SEISMIC DESIGN CATEGORY	В	

STRUCTURAL STEEL

S1. MATERIALS:

- S2. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST PROVISIONS OF THE "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, 14TH EDITION AND THE "AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
- S3. SHOP AND ERECTION DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR FOR ALL STRUCTURAL STEEL WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. SUBMIT TWO PRINTS. DO NOT PROCEED WITH FABRICATION WITHOUT SHOP DRAWING REVIEWED BY THE ENGINEER OF RECORD.
- S4. STORE MATERIALS TO PERMIT EASY ACCESS FOR INSPECTION AND IDENTIFICATION. KEEP STEEL MEMBERS OFF GROUND AND SPACED BY USING PALLETS, DUNNAGE, OR OTHER SUPPORTS AND SPACERS. PROTECT STEEL MEMBERS AND PACKAGED MATERIALS FROM CORROSION AND DETERIORATION. DO NOT STORE MATERIALS ON STRUCTURE IN A MANNER THAT MIGHT CAUSE DISTORTION, DAMAGE, OR OVERLOAD TO MEMBERS OR SUPPORTING STRUCTURES. REPAIR OR REPLACE DAMAGED MATERIALS OR STRUCTURES AS DIRECTED. STORE FASTENERS IN A PROTECTED PLACE IN SEALED CONTAINERS WITH MANUFACTURER'S LABELS INTACT. CLEAN AND RELUBRICATE BOLTS AND NUTS THAT BECOME DRY OR RUSTY BEFORE USE.
- S5. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY (AWS) STRUCTURAL WELDING CODE STEEL D1.1, LATEST EDITION, BY CERTIFIED WELDERS AND QUALIFIED WELDING PROCEDURES. SHIELDED METAL ARC METHOD OF WELDING SHALL BE USED FOR ALL WORK. WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES SHALL BE IN ACCORDANCE WITH THE AISC AND AWS SPECIFICATIONS. ANY STRUCTURAL STEEL DAMAGED BY WELDING IS TO BE REPLACED OR REINFORCED AS ACCEPTABLE TO THE STRUCTURAL ENGINEER.
- S6. ALL INTERIOR/FULLY PROTECTED STEEL SHALL BE SHOP PRIMED AT A MINIMUM. SHOP PRIMER PAINT SHALL BE TNEMEC 88-555 METAL PRIMER, RUSTOLEUM 678, DUPONT 771. (MINIMUM 1.5 DFT), OR SSPC-PAINT 25 (SUCH AS INTREPID 200R26). ANY COATING APPLIED OVER PRIMER MUST BE OF A STRONGLY CONTRASTING COLOR. ALL AREAS PRIMER DAMAGED DURING INSTALLATION MUST BE MECHANICALLY CLEANED TO AN SP3 SURFACE AND TOUCHED UP PER THE MANUFACTURERS RECOMMENDATIONS. AREAS AROUND WELD DAMAGED MUST BE STRIPPED SUFFICIENTLY PAST THE WELD TO REMOVE ANY PAINT COMPROMISED BY THE HEATING.

ALL STEEL EXPOSED TO WEATHER (PER IBC "WEATHER-EXPOSED SURFACE") MUST BE HOT DIPPED GALVANIZED (HDG) PER ASTM A123. ALL AREAS OF HDG DAMAGED BY OPERATIONS, ESPECIALLY WELDING, ARE TO BE REPAIRED PER ASTM A780 SOLDER METHODOLOGY UPON COMPLETION OF THE OPERATION TO THE WRITTEN SATISFACTION OF THE ENGINEER.

- S7. VERIFY AND COORDINATE REQUIREMENTS, DIMENSIONS AND LOCATIONS OF MECHANICAL EQUIPMENT PRIOR TO START OF FABRICATION.
- S8. MINIMUM FILLET WELD SIZE SHALL BE 1/4" UNLESS OTHERWISE SHOWN ON THE DRAWINGS. RECORDS OF WELDER QUALIFICATIONS SHALL BE MAINTAINED AND AVAILABLE FOR OWNERS REVIEW.
- S9. ALL STEEL AT AND BELOW FINISHED GRADE OR FLOOR SLAB SHALL RECEIVE TWO (2) COATS OF BITUMINOUS PAINT OR 3 MINIMUM CONCRETE COVER.

WOOD NOTES

- W1. ALL FRAMING EXPOSED TO THE WEATHER OR GROUND CONTACT SHALL BE PRESSURE TREATED (PT) AS REQUIRED, AND SHALL BE SOUTHERN YELLOW PINE #2 (SYP2) OR SUPERIOR. ALL NON-EXPOSED FRAMING LUMBER SHALL BE HEM-FIR NORTH #2, DOUGLAS FIR #2, OR BETTER UNLESS OTHERWISE NOTED. ALL PRESSURE TREATED LUMBER (ACQ) LEVEL OF TREATMENT SHALL BE IN ACCORDANCE W/AWPA STANDARDS FOR RETENTION BASED ON END USE APPLICATION (ABOVE GROUND USE, GROUND CONTACT, DECKING, ETC.).
- W2. ALL CUT ENDS, NOTCHES, AND DRILLED HOLES IN PT LUMBER MUST BE FIELD TREATED PER AWPA M4 STANDARDS, SUCH AS WITH COPPER NAPHTHENATE. OUR OFFICE RECOMMENDS THAT ALL NEW PT LUMBER OPEN TO WEATHER BE TREATED WITH A PENETRATING WATER REDUCER (SUCH AS BOILED LINSEED OIL) IN ORDER TO INCREASE THE LIFE OF THE STRUCTURE.
- W3. ALL METAL FRAMING CONNECTIONS SHALL BE SIMPSON STRONG TIE (SST) OR APPROVED EQUAL.
- W4. ALL METAL HANGERS TO BE GALVANIZED AS FOLLOWS:

PRESSURE TREATED WOOD: G-185 ALL OTHER WOOD: G-60

SEE PLAN FOR SKEW / SLOPE REQUIREMENTS. ALL HANGERS TO BE FULLY NAILED PER MANUFACTURER'S NAILING SCHEDULE.

- W5. ALL BOLTS, NAILS AND ASSOCIATED FASTENERS EXPOSED TO THE WEATHER SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM WEIGHT OF ZINC COATING = 1.00 OZ./FT.
- W6. ALL WOOD FRAMING CONNECTIONS SHALL BE FASTENED IN ACCORDANCE WITH "FASTENING SCHEDULE" OF 2009 IRC, UNLESS OTHERWISE INDICATED.
- W7. TREATING THE CUT ENDS OF LUMBER WITH WATER REPELLENT SUCH AS LINSEED OIL OR MOST COMMON PAINTS WILL INCREASE THE RESILIENCY OF ANY FRAMING IN THE EVENT OF FUTURE LEAKING/MOISTURE.
- W8. ALL PROPRIETARY HARDWARE SHALL BE INSTALLED IN COMPLETE ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- W9. UNLESS NOTED OTHERWISE, ALL NAILS ARE TO BE COMMON WIRE NAILS, WITH CORROSION RESIDENCE APPROPRIATE TO THE USE. SELECT FASTENERS OF SIZE THAT WILL NOT FULLY PENETRATE MEMBERS WHERE OPPOSITE SIDE WILL BE EXPOSED TO VIEW OR WILL RECEIVE FINISH MATERIALS. MAKE TIGHT CONNECTIONS BETWEEN MEMBERS. INSTALL FASTENERS WITHOUT SPLITTING WOOD. DRIVE NAILS SNUG BUT DO NOT COUNTERSINK NAIL HEADS UNLESS OTHERWISE INDICATED. IF POST-FRAME NAILS (RING SHANK OR SPIRAL) ARE SPECIFIED, THE DIAMETER WILL BE BASED ON THE CALL OUT ON PLAN, INTERPRETED AS DESCRIBED BELOW. DIAMETERS MUST MEET OR EXCEED THE FOLLOWING BASED ON THE CALL-OUTS IN THE PLANS:

 16d=0.162" Ø (0.177" POST-FRAME)

 10d=0.148" Ø 8d=0.131" Ø (0.135" POST-FRAME)
- W10. BOLTS SHALL BE ASTM A 307-GRADE A STEEL, WITH ASTM A 563 HEX NUTS AND, WHERE INDICATED, FLAT WASHERS.
- W11. COMPLY WITH AF&PA'S WCD 1, "DETAILS FOR CONVENTIONAL WOOD FRAME CONSTRUCTION," UNLESS OTHERWISE INDICATED.
- W12. DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS UNLESS OTHERWISE INDICATED.
- W13. STACK LUMBER FLAT WITH SPACERS BENEATH AND BETWEEN EACH BUNDLE TO PROVIDE AIR CIRCULATION. PROTECT LUMBER FROM WEATHER BY COVERING WITH WATERPROOF SHEETING, SECURELY ANCHORED. PROVIDE FOR AIR CIRCULATION AROUND STACKS AND UNDER COVERINGS.

STRUCTURAL EARTHWORK

- E1. IN ABSENCE OF A SUB-SURFACE EXPLORATION AND GEOTECHNICAL REVIEW, THESE DESIGNS REQUIRE THAT IT BE FIELD VERIFIED THAT NO MATERIALS CONTAINING ORGANICS, VOIDS, DEBRIS, RUBBLE, PLASTICS, FATTY CLAYS, ASH, OR SOLUBLE MATERIAL BE PRESENT WITHIN THE BEARING AREA, WHICH IS TO BE TAKEN AS 10' BEYOND THE OUTER FOOTING EDGE. THIS MAY BE VERIFIED VIA TEST PITS OR BORINGS, AS NECESSARY.
- E2. FROM BOTTOM OF FOOTING TO UNDERSIDE OF SLAB, FILL SHALL BE PLACED IN 8" LOOSE LAYERS AND COMPACTED TO 95% MAXIMUM DENSITY PER ASTM D-1557 (3-POINT CURVE ACCEPTABLE).
- E3. FROM STRIPLINE TO BOTTOM OF FOOTING, FILL SHALL BE PLACED IN 8" LOOSE LAYERS AND COMPACTED TO 95% MAXIMUM DENSITY AS PER NOTE E2.
- E4. FOUNDATIONS ARE DESIGNED FOR A SOIL BEARING VALUE OF 3000 P.S.F..
- E5. ALL STRUCTURAL FILL IS TO BE SOUND/DURABLE MATERIAL FREE OF DEBRIS, ORGANICS, ASPHALT AND VOIDS, COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D-1557 (3-POINT CURVE ACCEPTABLE), AND IS TO CONFORM TO THE FOLLOWING GRADATION:

 Sieve Size
 % Passing

 3½"
 100

 1½"
 85 - 100

 ¾"
 50 - 85

 ½"
 35 - 80

 #10
 30 - 75

 #40
 10 - 40

 #200
 10 - 40

a. 0-5% IF REPROCESSED ASPHALT IS USED

E6. TOPSOIL PLACED OVER STRUCTURAL FILL IS TO HAVE NO MORE THAN 85% PASSING THE 140 SIEVE (D 85 ≥0.1mm), AND MUST BE SEPARATED FROM FILTER STONE WITH EITHER FILTER FABRIC OR NO LESS THAN 4" OF STRUCTURAL FILL.

ABBREVIATIONS LEGEND

A.O.D. =	AT OWNER's DISCRETION	FT. =	FOOT OR FEET	PSF =	POUNDS PER SQ. FT.
BTWN. =	BETWEEN	FTG. =	FOOTING	PSI =	POUNDS PER SQ. IN.
CLR. =	CLEAR	GA. = ga. =	GAUGE (THICKNESS)	PT =	PRESSURE TREATED
COORD.=	COORDINATE	H.D.G. =	HOT DIPPED GALVANIZED	REINF. =	REINFORCEMENT
CONC. =	CONCRETE	HORIZ. =	HORIZONTAL	R.O. =	ROUGH OPENING
CONN. =	CONNECT	IBC =	INTERNATIONAL BLDG. CODE	REQ. =	REQUIRED
CONT. =	CONTINUOUS	IRC =	INTERNATIONAL RES. CODE	SIM. =	SIMILAR
DBL. = (2) =	DOUBLE	I.D. =	INNER DIAMETER	SQ. =	SQUARE
DEG. = ° =	DEGREES	IN. =	INCH	STD. =	STANDARD
DIA. = \emptyset =	DIAMETER	INT. =	INTERIOR	T.B.D. =	TO BE DETERMINED
DNS =	DO NOT SCALE	LAT. =	LATERAL	T.B.R. =	TO BE REMOVED
DWL. =	DOWEL	LONG. =	LONGITUDINAL	THR. =	THREADED
EA. =	EACH	ld =	DEVELOPMENT LENGTH	TYP. =	TYPICAL
EoR =	ENGINEER OF RECORD	MAX. =	MAXIMUM	SQ. FT. =	SQUARE FEET
ELEV. =	ELEVATION	MIN. =	MINIMUM	U.N.O.= U.O.N. =	UNLESS NOTED OTHERWISE
EMBED. =	EMBEDMENT	MFR. =	MANUFACTURER	VERT. =	VERTICAL
EQ. =	EQUAL	NTS =	NOT TO SCALE	V.I.F. =	VERIFY IN FIELD
EXIST. =	EXISTING	O.C. =	ON CENTER	w/ =	WITH
EXT. =	EXTERIOR	O.D. =	OUTER DIAMETER	W.W.F. =	WELDED WIRE FABRIC
fc =	CONC. COMPRESSIVE STRENGTH	O.H. =	OPPOSITE HAND		
FIN. =	FINISH	PROJ. =	PROJECTION		

2 2023-03-09 FROST SUSCEPTIBILITY: KEY REVISIONS CLOUDED
1 2022-12-20 REPAIR FOOTINGS RATHER THAN REPLACE
NUMBER DATE REVISION

UNDATION REPARAO' Pavilion Structure 866 CT-163, Montville,

PAVILION FOUN
Existing 125'x40'

A Engineers, Inc.
VIL. STRUCTURAL · SURVEYING
Main Street Norwich, Connecticu

0) 886-1966 Fax (860) 886-9165

OATE:

PROJ. ENGINEER

ET NO. (OF 2 SHEET