

Proposed Addition

COVENANT CHRISTIAN CHURCH

900 W. HAMLIN RD.
ROCHESTER HILLS, MI

THE IDEAS AND DESIGN CONCEPTS EXPRESSED HEREIN AND THE GRAPHICALLY DISPLAYED ARRANGEMENT OF THEIR COMPONENTS REPRESENTED BY THIS DRAWING HAVE BEEN DEVELOPED FOR THE EXCLUSIVE USE OF THE SPECIFIED PROJECT AND ARE THE SOLE PROPERTY OF JMP Design + Build, Inc. INCORPORATED. A CONVEYANCE OR DISCLOSURE OF THE IDEAS DESIGN CONCEPTS OR USE OF ANY GRAPHICALLY DISPLAYED ARRANGEMENTS OF THE COMPONENTS SHALL BE AT THE DISCRETION AND ONLY THROUGH THE EXPRESSED WRITTEN CONSENT OF JMP Design + Build, Inc. ALL MATERIALS HEREIN ARE PROPRIETARY AND COPYRIGHTED ARCHITECTURAL SEAL

Design Data -

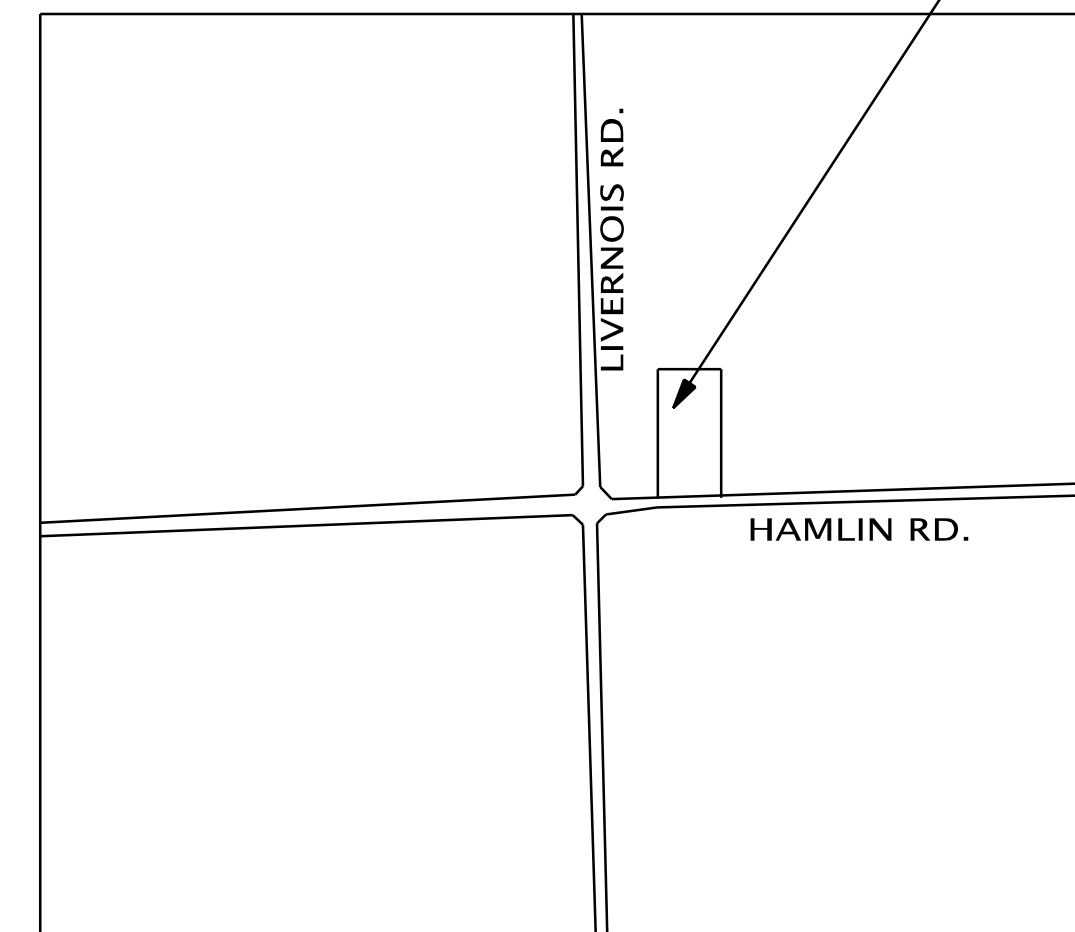
ADDITION

REFERENCE CODE	MICHIGAN BUILDING CODE (2015 MBC) PLUMBING (2015 MPC) MECHANICAL (2015 MMC) ELECTRICAL (2017 NEC) ICC/ANSI A117.1-2013 ASHRAE 90.1-2013 W/ AMMENDMENTS ENERGY CODE 2015. + ASHRAE 90.1-2013 2017 NEC W/ MICHIGAN PART 8 RULES
CONSTRUCTION TYPE	VB CONSTRUCTION TYPE (FULLY SPRINKLED) NON-COMBUSTIBLE MATERIALS
USE GROUP	A-3 ASSEMBLY (PLACE OF WORSHIP/ CHURCH)
GROSS AREA	SQUARE FOOTAGE OF NEW AND EXISTING EXIST. CHURCH LOWER LEVEL: 2,409 Sq.Ft. UPPER LEVEL: 2,367 Sq.Ft. Total: 4,776 Sq.Ft. EXIST. CHURCH TOTAL: 4,776 Sq.Ft. NEW ADDITION 1,489 Sq.Ft. TOTAL NEW & EXISTING: 6,265 Sq.Ft. NEW PORTICO (UNCONDITIONED) 458 Sq.Ft.
ALLOWABLE BUILDING HEIGHT PER TABLE 504.3	A- ASSEMBLY AND 5B CONSTRUCTION & (S) SPRINKLED 60 FT. MAX HT. ALLOWABLE 30'-11" HIGHEST PART OF BUILDING
ALLOWABLE STORIES ABOVE GRADE PER TABLE 504.4	A- ASSEMBLY AND 5B CONSTRUCTION & (S) SPRINKLED ALLOWABLE: 2 STORIES ABOVE GRADE ACTUAL: 1 STORY ABOVE GRADE
ALLOWABLE AREA PER TABLE 506.2	A- ASSEMBLY AND 5B CONSTRUCTION & (S1) SPRINKLED ALLOWABLE : 24,000 SQ. FT. PER FLOOR
OCCUPANT LOAD	UPPER LEVEL: SANCTUARY (FIXED SEATING): = 164 LOWER LEVEL: 1,122 SQ. FT. (USEABLE) USED AS CLASS ROOM (20 NET) = 56 OCCUPANTS UPPER LEVEL NEW: LOBBY SPACE 990 SQ. FT. / 5 NET= 198 (USED FOR EGRESS PURPOSES ONLY) TOTAL OCCUPANT LOAD: 220
MINIMUM NUMBER OF EXITS FOR OCCUPANT LOAD PER	(2) EXIT REQUIRED- OVER 50 OCCUPANTS (3) EXITS PROVIDED
MAXIMUM LENGTH OF COMMON PATH EXIT ACCESS TRAVEL PROVIDED	100 FEET ALLOWABLE SPRINKLED NFPA UNDER 100 FEET SPRINKLERED NFPA PROVIDED
TOTAL EXIT ACCESS TRAVEL DISTANCE	250 FT. MAX DISTANCE (PROVIDED: UNDER 250 FEET)
FIRE-RESISTANCE RATING REQUIREMENTS FOR FIRE BARRIER ASSEMBLIES BETWEEN FIRE AREAS	

FULLY SPRINKLERED

STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS, TRUSSES	0 HOUR
BEARING WALLS EXTERIOR	0 HOUR EXCEPT AT PROPERTY LINES (2 HOUR)
INTERIOR	0 HOUR
NONBEARING WALLS AND PARTITIONS EXTERIOR	0 HOURS
NONBEARING WALLS AND PARTITIONS INTERIOR	0 HOUR
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	0 HOUR
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS	0 HOUR

900 W. HAMLIN RD.



DRAWING SET CONTENTS

CS-1	COVER SHEET
D-1	DEMO/ EXISTING PLANS
A-1	PROPOSED FLOOR PLAN
A-2	FRONT & REAR ELEVATIONS
A-3	LEFT & RIGHT ELEVATIONS

CIVIL ENGINEER: MAURO ENGINEERING
48657 Hayes Rd, Shelby Township, MI 48315
Phone: (586) 247-2800

PROJECT

COVENANT CHRISTIAN CHURCH
(ADDITION AND RENOVATION)
900 W. HAMLIN RD.
ROCHESTER HILLS, MI 48307

BUILDER/CLIENT

COVENANT CHURCH

PRELIMINARY ●

CONSTRUCTION ○

PERMIT ○

SHEET TITLE:

COVER SHEET

DATE:

03-04-2021

07-31-2021

DRAWN BY:

J.M.P.

CHECKED BY:

J.M.P.

JOB NUMBER:

21 - 120

SHEET NUMBER:

THE IDEAS AND DESIGN CONCEPTS EXPRESSED HEREIN AND THE GRAPHICALLY DISPLAYED ARRANGEMENT OF THEIR COMPONENTS REPRESENTED BY THIS DRAWING HAVE BEEN DEVELOPED FOR THE EXCLUSIVE USE OF THE SPECIFIED PROJECT AND ARE THE SOLE PROPERTY OF JMP Design & Build, Inc. INCORPORATED. A CONVEYANCE OR DISCLOSURE OF THE IDEAS DESIGN CONCEPTS OR USE OF ANY GRAPHICALLY DISPLAYED ARRANGEMENTS OF THE COMPONENTS SHALL BE AT THE DISCRETION AND ONLY THROUGH THE EXPRESSED WRITTEN CONSENT OF JMP Design & Build, Inc. ALL MATERIALS HEREIN ARE PROPRIETARY AND COPYRIGHTED ARCHITECTURAL SEAL

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 (ADDITION AND RENOVATION)
 900 W. HAMILIN RD.
 ROCHESTER HILLS, MI 48307

BUILDER/CLIENT
COVENANT CHURCH

PRELIMINARY ●
 CONSTRUCTION ○
 PERMIT ○

SHEET TITLE:
PROPOSED FLOOR PLANS

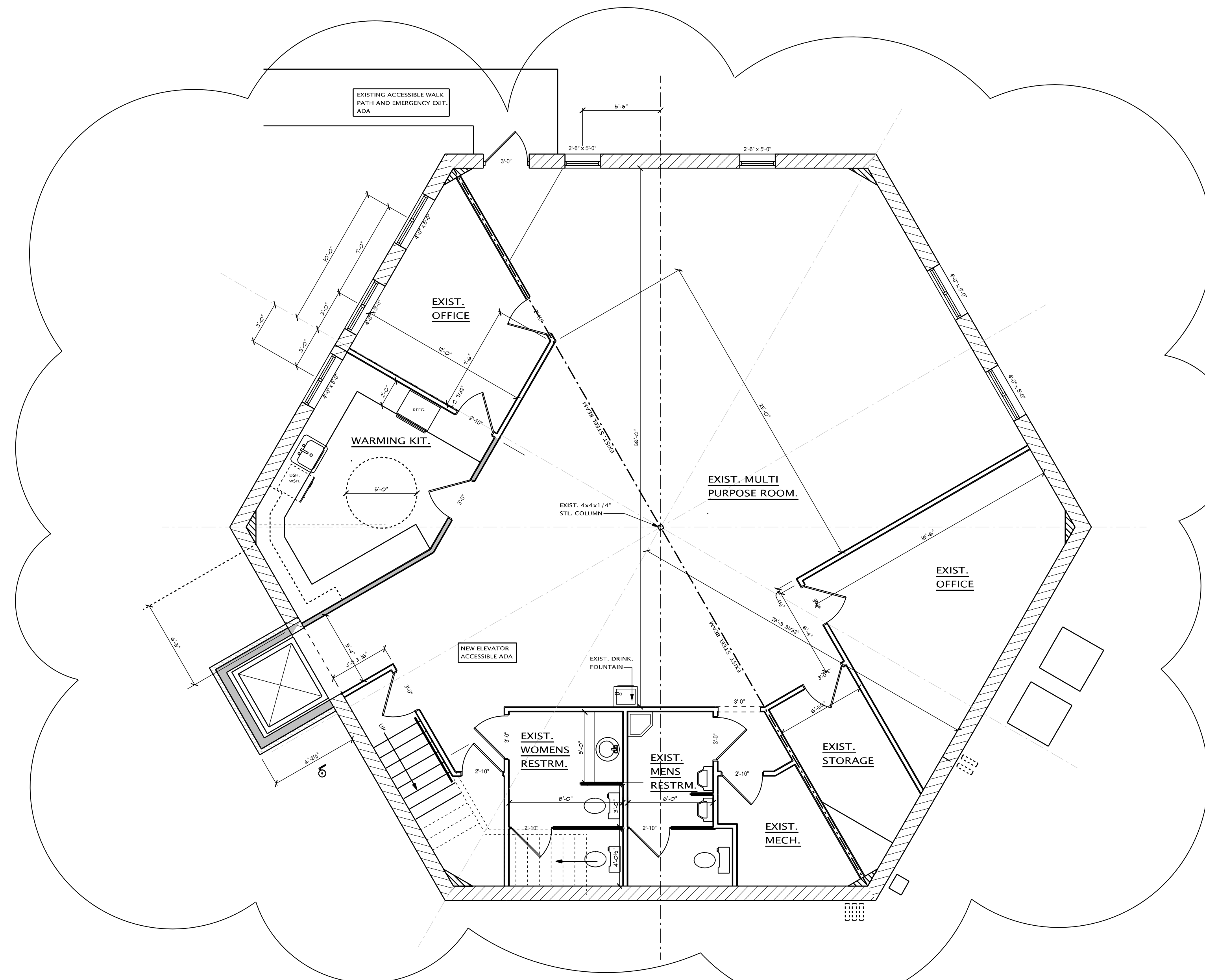
DATE: 03-04-2021
 07-31-2021
 01-10-2022

DRAWN BY:
J.M.P.

CHECKED BY:
J.M.P.

JOB NUMBER:
21 - 120

SHEET NUMBER:



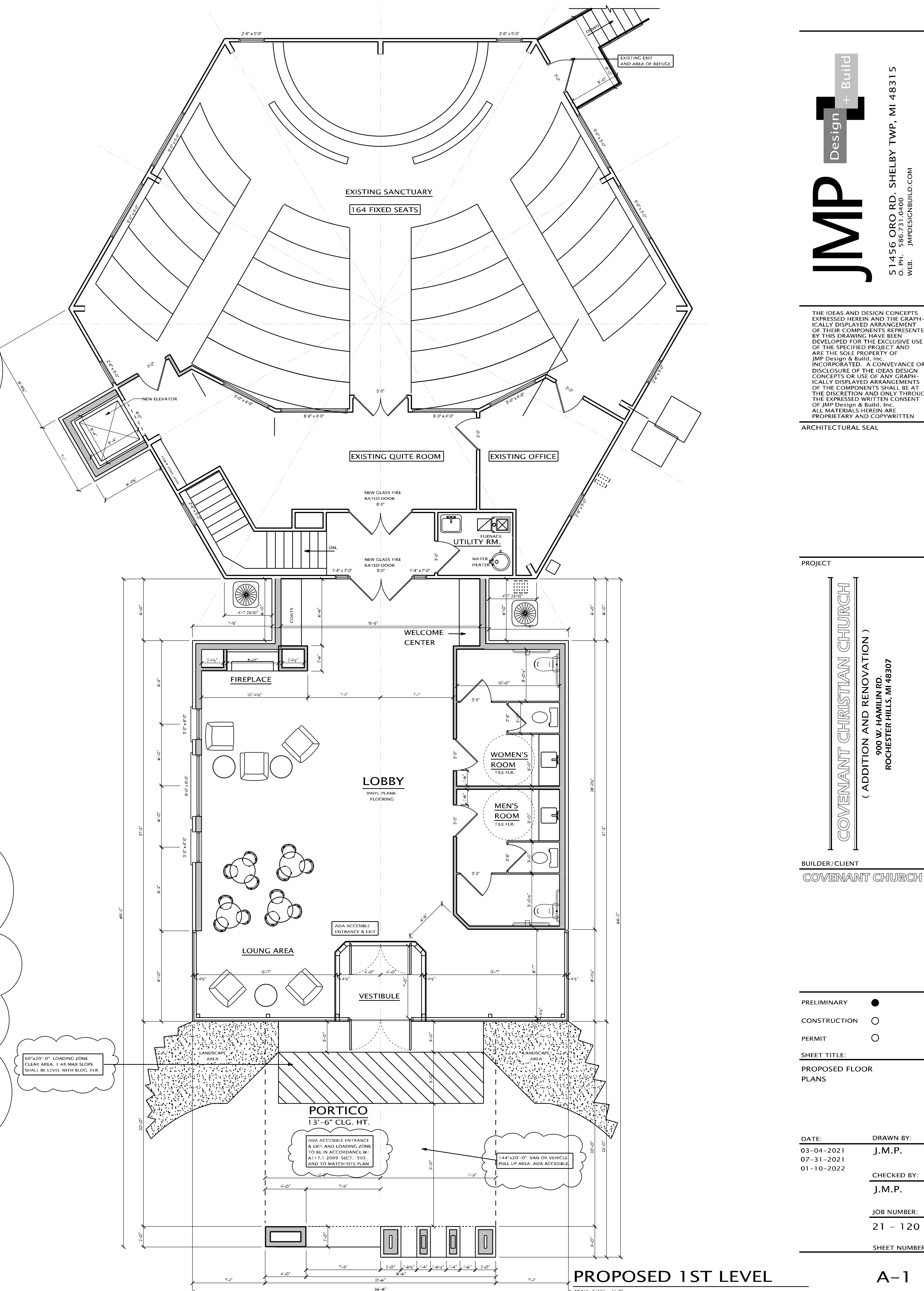
PROPOSED BASEMENT PLAN
 SCALE: 3/16" = 1'-0"

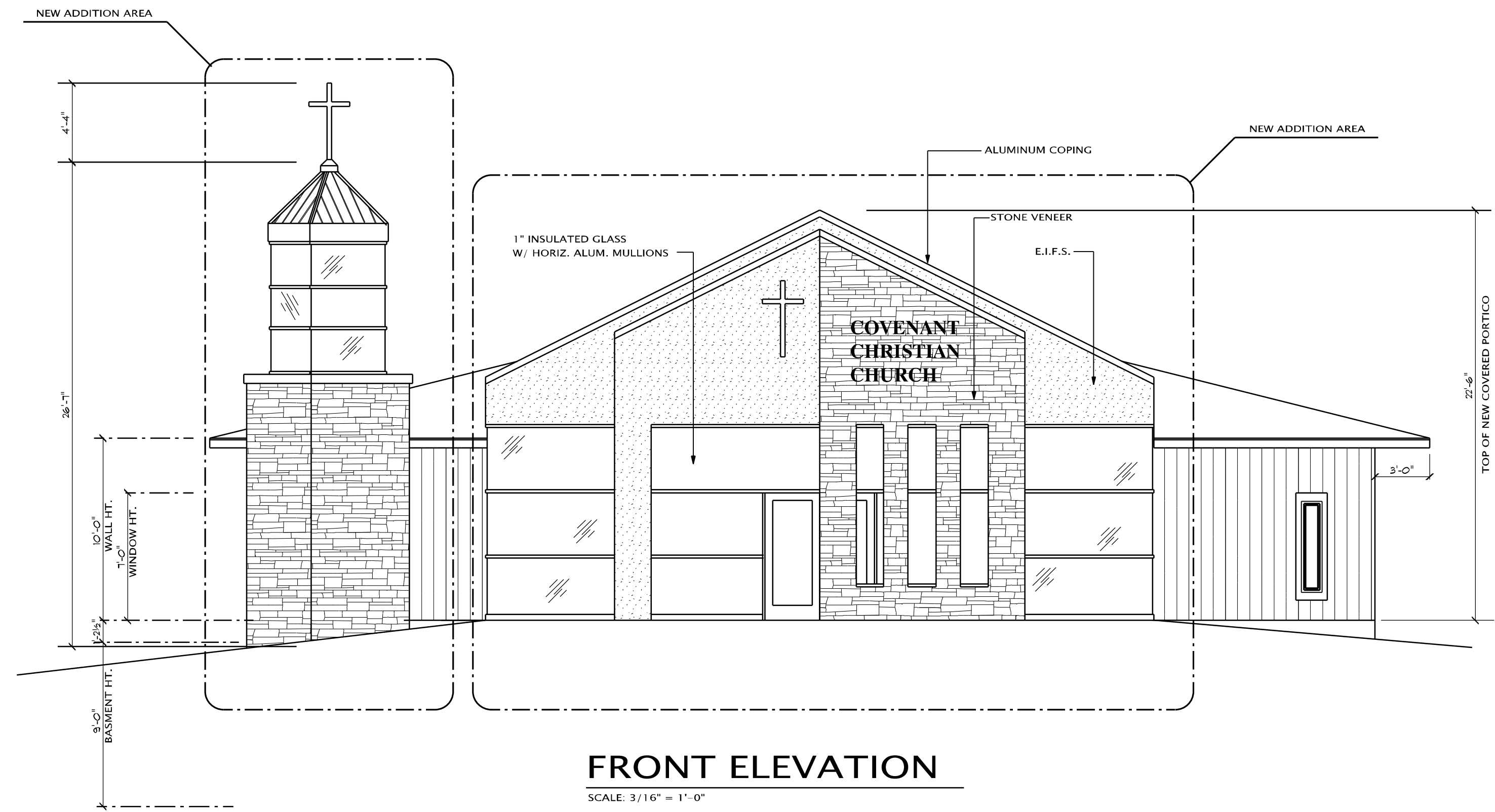
REFER TO DESIGN DATA ON COVER SHEET. THIS IS FOR INFORMATIONAL PURPOSES ONLY.

BUILDING SQUARE FOOTAGE DATA:

SQUARE FOOTAGE OF NEW AND EXISTING	
EXIST. CHURCH	1st. LEVEL: 2,409 Sq.Ft.
	2nd. LEVEL: 2,367 Sq.Ft.
	Total: 4,776 Sq.Ft.
EXIST. CHURCH TOTAL:	4,776 Sq.Ft.
NEW ADDITION	1,489 Sq.Ft.
TOTAL NEW & EXISTING:	6,265 Sq.Ft.
NEW PORTICO:	458 Sq.Ft.
(UNCONDITIONED)	

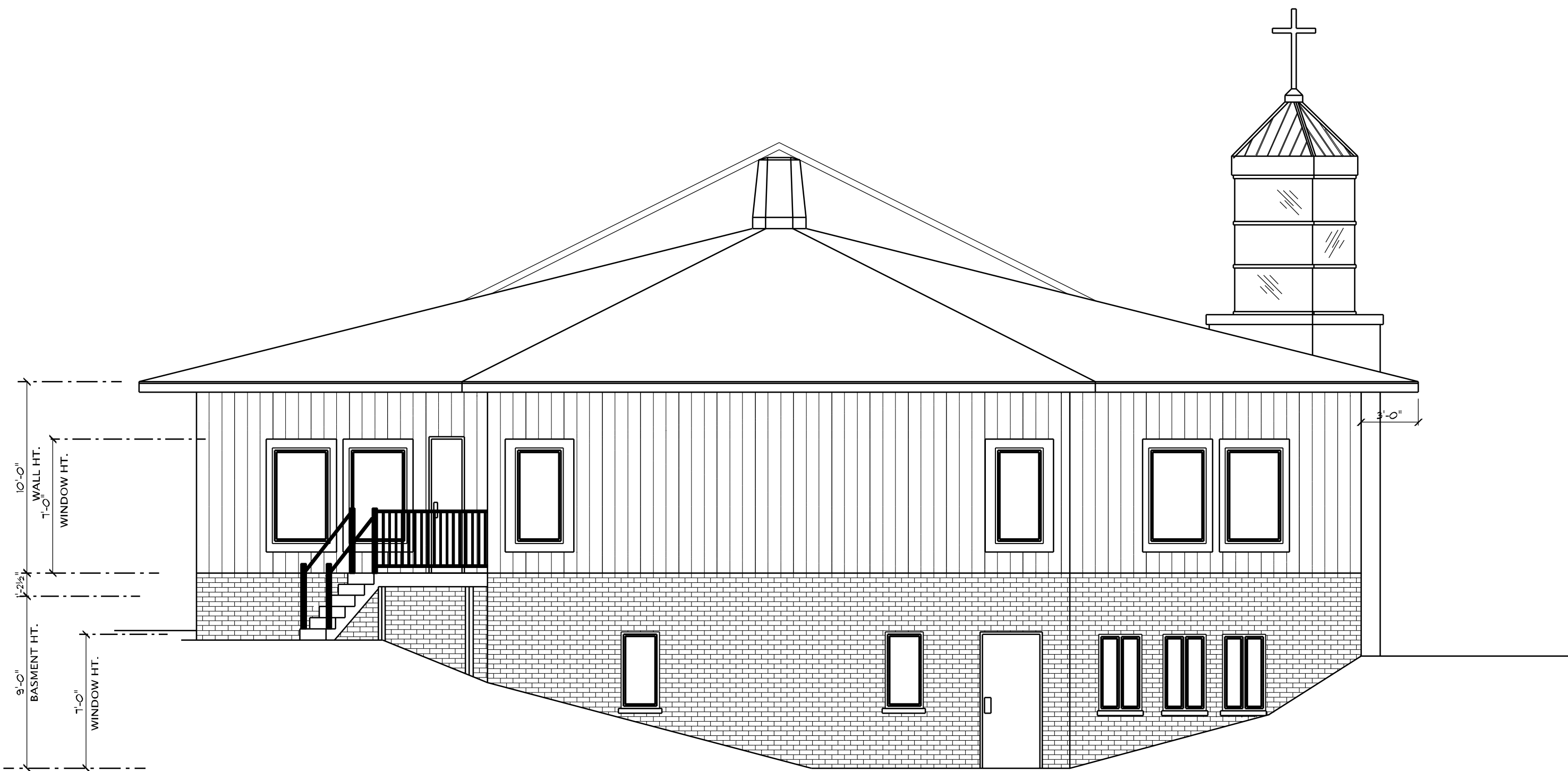
- BUILDING NOTES:**
1. ANY NEW PROPOSED SIGNAGE SHOULD BE INDICATED ON THE PLANS. ALL SIGNS MUST MEET SECTION 138-8.603 AND CHAPTER 134 OF THE CITY CODE OF ORDINANCES AND BE APPROVED UNDER A SEPARATE PERMIT ISSUED BY THE BUILDING DEPARTMENT.
 2. ALL ENTRANCES TO EACH FLOOR TO BE ACCESSIBLE PER ADA REQUIREMENTS.
 3. BUILDING DOES NOT CONTAIN FIRE SUPPRESSION CURRENTLY, WITH THE NEW ADDITION, AND THE NEW TOTAL SQUARE FOOTAGE OF THE BUILDING, THE BUILDING WILL BE REQUIRED TO HAVE THE BUILDING FIRE SUPPRESSED WITH A WATER SYSTEM AND SHALL COMPLY WITH SECT. 903.
 4. FIRE ALARM AND SMOKE DETECTION WILL BE REQUIRED PER SECTION 907





FRONT ELEVATION

SCALE: 3/16" = 1'-0"



REAR ELEVATION

SCALE: 3/16" = 1'-0"

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SHEET TITLE:

FRONT & REAR ELEVATIONS

DATE:

03-04-2021
07-31-2021

DRAWN BY:

J.M.P.

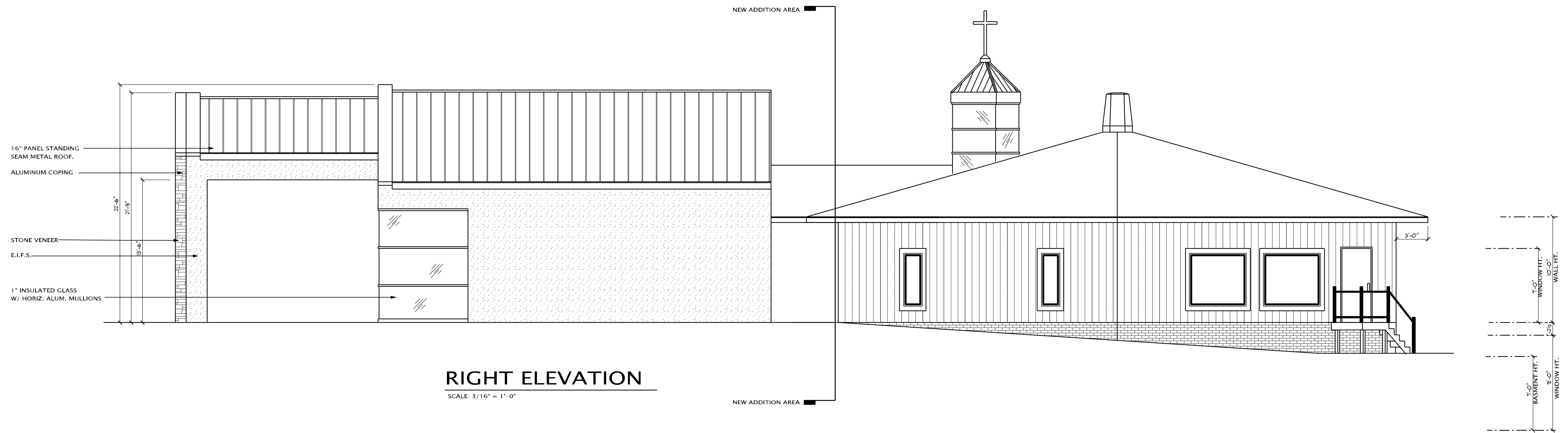
CHECKED BY:

J.M.P.

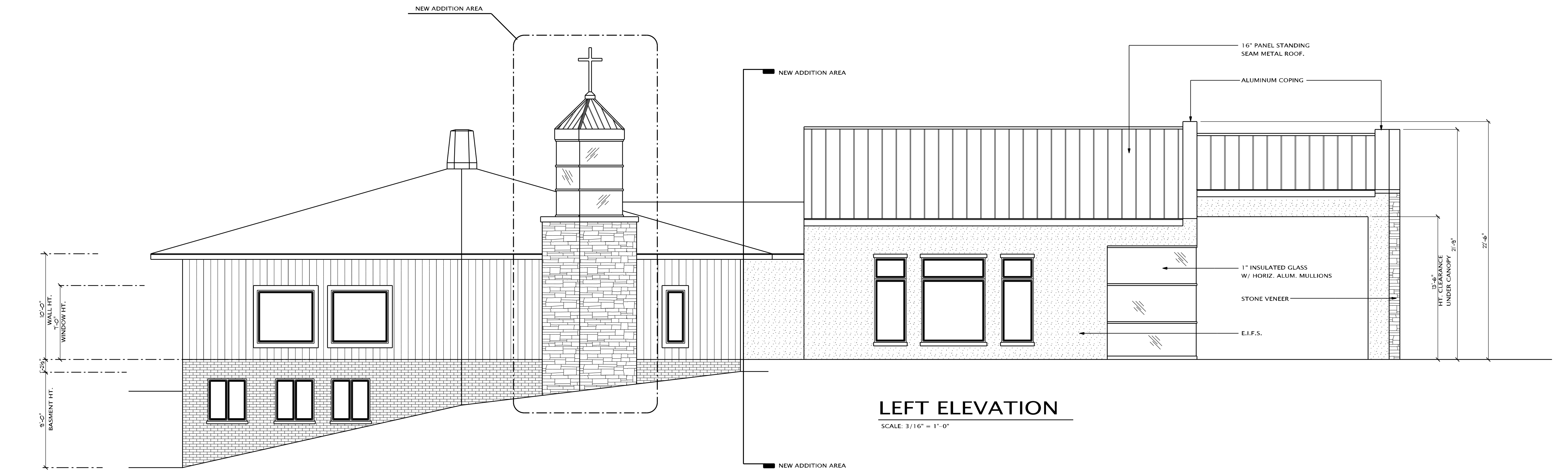
JOB NUMBER:

21 - 120

SHEET NUMBER:



RIGHT ELEVATION
SCALE: 3/16" = 1'-0"



LEFT ELEVATION
SCALE: 3/16" = 1'-0"

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ARCHITECTURAL SEAL

PROJECT

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BUILDER/CLIENT
COVENANT CHURCH

PRELIMINARY
CONSTRUCTION
PERMIT
SHEET TITLE:

LEFT & RIGHT ELEVATIONS

DATE: 03-04-2021
07-31-2021
DRAWN BY: J.M.P.

CHECKED BY: J.M.P.

JOB NUMBER: 21 - 120

SHEET NUMBER:

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BUILDER/CLIENT

COVENANT CHURCH

PRELIMINARY ●
 CONSTRUCTION ○
 PERMIT ○
 SHEET TITLE:
 EXISTING / DEMO
 PLAN

DATE: 03-04-2021
 07-31-2021

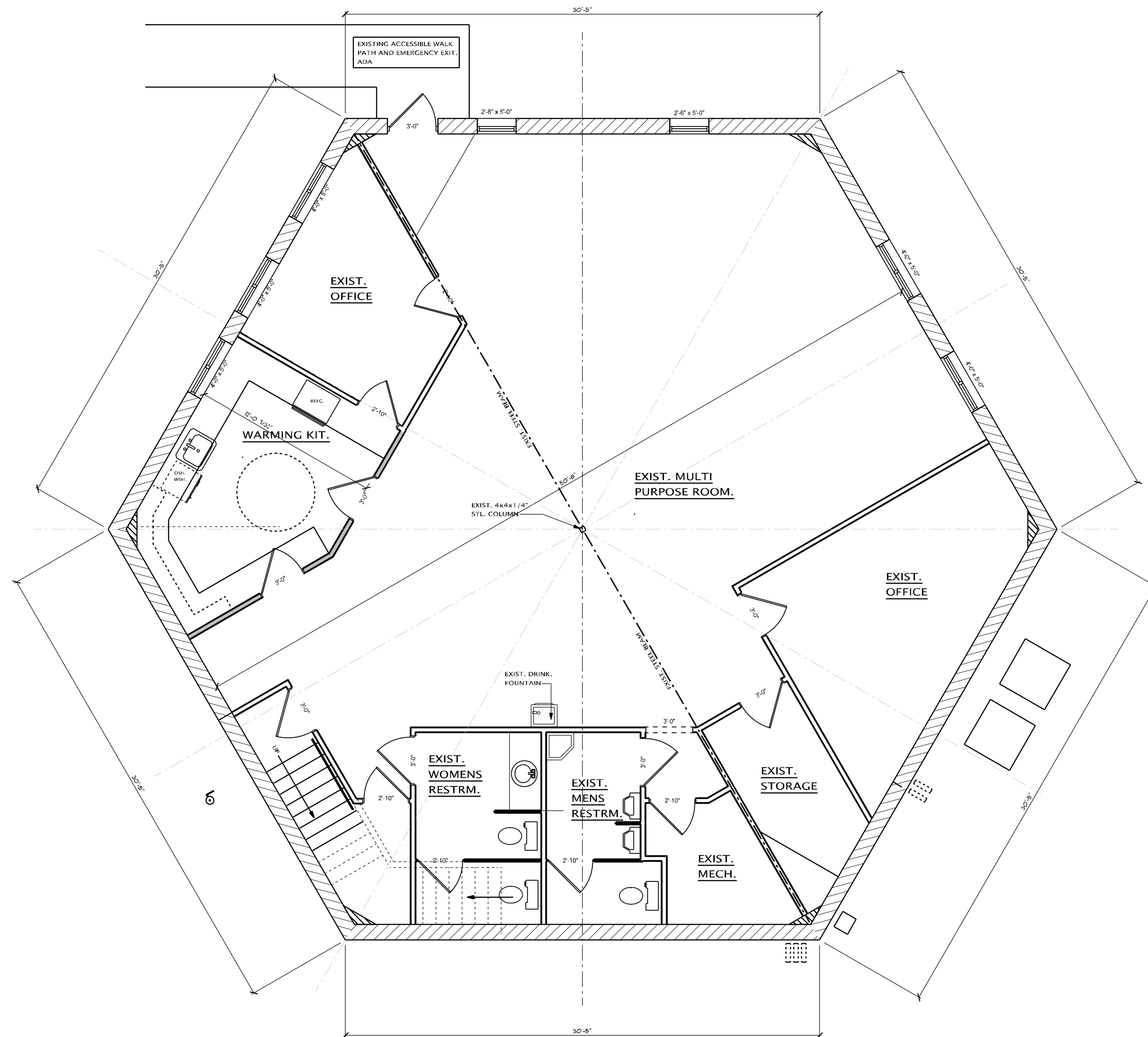
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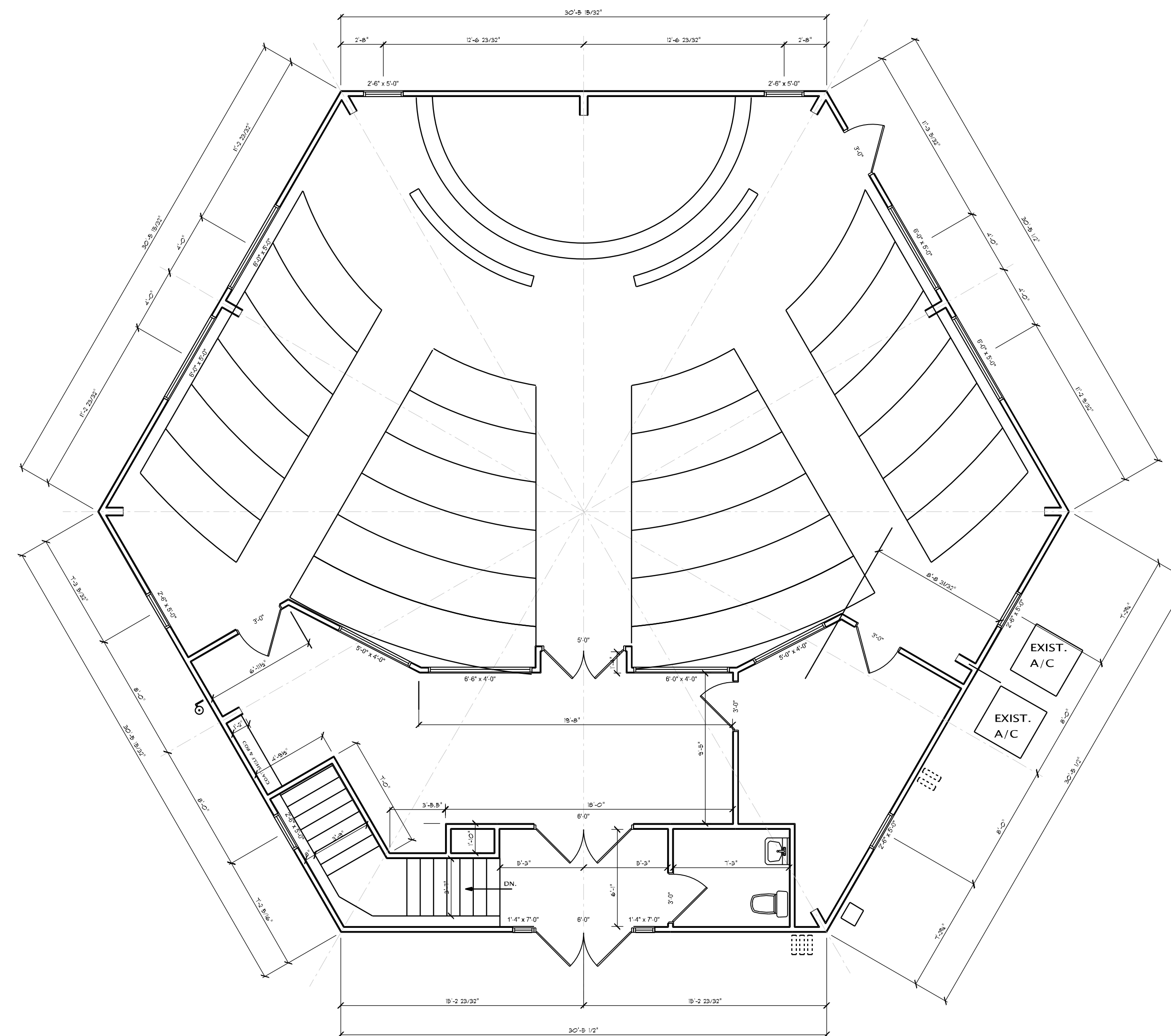
JOB NUMBER:
 21 - 120

SHEET NUMBER:

D-1



EXISTING BASEMENT PLAN
 SCALE: 3/16" = 1'-0"



EXISTING MAIN LEVEL
 SCALE: 3/16" = 1'-0"

DESIGN DATA

1. DESIGN LOADS:
 - A. ROOF DEAD LOAD: 5 PSF, INCLUDING WEIGHT OF ROOF STRUCTURE
 - B. ROOF LIVE LOAD: 20 PSF
 - C. ROOF SNOW LOAD DATA:
 - a. GROUND SNOW LOAD: 30 PSF
 - b. FLAT-ROOF SNOW LOAD, P_f : 22.7 PSF
 - c. SNOW EXPOSURE FACTOR, C_e : 0.9
 - d. SNOW LOAD IMPORTANCE FACTOR, I_s : 1.00
 - e. THERMAL FACTOR, C_t : 1.2
 - D. WIND DESIGN DATA:
 - a. ULTIMATE DESIGN WIND SPEED (3-SECOND GUST): 115 MPH
 - b. NOMINAL DESIGN WIND SPEED, V_{3sd} : 90 MPH
 - c. RISK CATEGORY: II
 - d. WIND EXPOSURE: C
 - e. INTERNAL PRESSURE COEFFICIENT, G_c : +/- 0.18
- E. EARTHQUAKE DESIGN DATA:
 - a. RISK CATEGORY: II
 - b. SEISMIC IMPORTANCE FACTOR, I_e : 1.00
 - c. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS, S_1 : 0.06, S_2 : 0.193
 - d. SITE CLASS: D - STIFF SOIL
 - e. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS, S_{DS} : 0.206, S_{D1} : 0.095
 - f. SEISMIC DESIGN CATEGORY: B
 - g. BASIC SEISMIC FORCE-RESISTING SYSTEM: STEEL ORDINARY CONCENTRICALLY BRACED FRAMES
 - h. DESIGN BASE SHEAR: 0.0634W
 - i. RESPONSE MODIFICATION COEFFICIENT, R : 3.25
 - j. ANALYSIS PROCEDURE USED: SIMPLIFIED LATERAL FORCE ANALYSIS PROCEDURE
2. FOUNDATIONS: SPREAD COLUMN FOOTINGS ARE TO BE DESIGNED FOR 2,000 PSF SOIL BEARING AND TRENCHED FOOTINGS ARE DESIGNED FOR 2,000 PSF. AFTER EXCAVATION, CONTRACTOR SHALL VERIFY BEARING PROVIDED AND, IF NECESSARY, HAVE ENGINEER REDESIGN FOOTINGS BEFORE PLACING CONCRETE. ALL SITEWORK, FOUNDATIONS, DRAINAGE, FILLS ETC. SHALL BE ACCOMPLISHED IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICES.
3. CONCRETE SHALL BE DESIGNED, FURNISHED AND PLACED IN ACCORDANCE WITH THE LATEST ACI SPECIFICATIONS.
 - A. CONCRETE FOR UNEXPOSED FOUNDATION WORK SHALL TEST 3,000 PSI MINIMUM IN STANDARD 6" X 12" CYLINDERS AT 28 DAYS. CONCRETE FOR FLOORS AND SLABS SHALL TEST 3,500 PSI. EXTERIOR CONCRETE SHALL HAVE 6% (+/- 1%) ENTRAINED AIR AND SHALL TEST 4,000 PSI MINIMUM.
 - B. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, DESIGNED, DETAILED, FABRICATED AND ERECTED ACCORDING TO THE LATEST ACI AND CRSI SPECIFICATIONS.
 - C. HOOK ALL FOOTING REBAR 1'-6" AROUND CORNERS OR PROVIDE CORNER BARS.
 - D. NO RISERS, CONDUITS, ETC. WITHIN 1'-4" OF CENTERLINE OF LOAD CONCENTRATION.
- E. ALL SLABS SHALL BE REINFORCED AND SHALL HAVE SAWN CONTROL JOINTS 1/4 OF THE THICKNESS OF THE SLAB, AS SHOWN ON THE DRAWINGS. F. ANCHOR ROD DESIGN AND FABRICATION SHALL BE AS REQUIRED UNDER ASTM F1554, LATEST EDITION. ANCHOR RODS IN CONTACT WITH PRESSURE-TREATED WOOD SHALL BE STAINLESS STEEL.
4. STEEL STRUCTURE SHALL BE DESIGNED, DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST MBMA AND AISC SPECIFICATIONS.
 - A. ALL STEEL SHALL BE ASTM 572 (50 KSI).
 - B. ALL WELDS SHALL BE WITH E70XX ELECTRODES AND PER AWS REQUIREMENTS.
 - C. STRUCTURAL BOLTS SHALL BE A325.
 - D. STEEL SHALL HAVE ONE COAT OF RED CHORMATE PAINT, SHOP APPLIED. PARTS INACCESSIBLE AFTER ERECTION SHALL HAVE TWO COATS.
- E. CONNECTIONS SHALL DEVELOP FULL STRENGTH OF MEMBERS.
- F. PURLINS, ROOF COVERING, AND WALL COVERING MATERIAL SHALL BE MANUFACTURED AND FURNISHED BY NORTH STAR METALS MFG., 6850 EDWARDS RIDGE RD. SE, UHRICHVILLE, OH 44683. RAKE BEAMS AND ENDWALL COLUMNS TO BE AS NOTED ON PLANS. ROOF PANELS SHALL BE 26 OR 29 GAUGE MAXRIB (80 KSI) AND WALL PANELS SHALL BE 26 OR 29 GAUGE MAXRIB (80 KSI). PANEL FASTENERS SHALL BE SELF-DRILLING SCREWS WITH HEX HEADS (PAINTED) WITH NEOPRENE WASHERS.
- G. STEEL ROOF AND WALL BRACING, AS REQUIRED, SHALL BE DESIGNED AND INSTALLED TO MEET DESIGN WIND LOADS.
- H. ALL WOOD PURLINS, GIRTS AND DOOR FACING SHALL BE NO. 1 SYP. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE "PRESSURE-TREATED". ALL FASTENERS AND CONNECTORS IN CONTACT WITH PRESSURE-TREATED WOOD SHALL BE STAINLESS STEEL.
5. ALLOWABLE STRESS INCREASES WILL BE PERMITTED FOR WOOD; 15% FOR SHORT-TERM SNOW LOADING AND 60% FOR SHORT-TERM WIND LOADING.
6. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER IT IS FULLY ERECTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURES AND SEQUENCE AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION.
7. RESPONSIBILITY TO CONFORM TO THE ENGINEER'S DRAWINGS AND SPECIFICATIONS IS THAT OF THE CONTRACTOR. THE ENGINEER CERTIFIES THAT THE DESIGN IS IN ACCORDANCE WITH THE CURRENT APPLICABLE CODES AND SPECIFICATIONS, BUT TAKES NO RESPONSIBILITY OF THE CONTRACTOR'S FAILURE TO CONFORM TO THEM.
8. SAFETY FACTORS HAVE BEEN INCLUDED IN THE DESIGN OF ALL MEMBERS.

OWNER

Pastor Clay Bernier

Covenant Christian Church
Rochester Hills, MI 48307

NOTE:
CONSTRUCTION DOCUMENTS AT PROJECT SITE.
AN APPROVED SET OF CONSTRUCTION DOCUMENTS SHALL BE KEPT AT THE SITE OF THE WORK AND SHALL BE AVAILABLE FOR REFERENCE BY BUILDING OFFICIAL OR THE BUILDING OFFICIALS DESIGNATED REPRESENTATIVE AT ALL TIMES DURING WORKING HOURS WHILE SUCH WORK IS IN PROGRESS.

MICHIGAN CODE

PROJECT NO. 2021-32

M.B.C. 2015
MICH ELECTRICAL CODE 2017
INTERNATIONAL FIRE CODE 2015

BUILDING USE:
(A-1) ASSEMBLY.

CONSTRUCTION TYPE:
V-B

OCCUPANCY LOAD:
80 PEOPLE

ALLOWABLE AREA:
5,500 SF. 1 STORY

PROPOSED:
1,200 SF 1 STORY

ARCHITECT

ORIN E. CAMPBELL ARCHT. # 1301052654
CAMPBELL ASSOCIATES, INC.
550 E. FRENCHLINE RD.
SANDUSKY, MI. 488471
810.648.5099



campbell associates, inc.
architects engineers planners
550 E. Frenchline Rd., Sandusky, MI 48847



New Pavilion For:
Covenant Christian Church
900 W. Hamlin
Rochester Hills, MI 48307

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Date	Issued for	C.D.
15 April 2021		
26 Jan 2022		REV: 1

Project No:	2021-32
Drawn by:	DEC
Date:	15 April 2021
Sheet Contents:	Floor Plan

a1
Sheet Number:

Simpson Strong-Tie® Wood Connection Composites

CB

Column Base

Material: Strong-Tie® CB4, CB4L, CB4S, CB4L-7 galv. CB4 and longer - 3 galv. Base: CB4 through CB4S - 7 galv. CB4L-7 galv.

Finish: CB4, CB4L, CB4S, CB4L-7 galv. - galvanized; all other CB - Simpson Strong-Tie grey paint or HDG. Some products available in HDG, weather steel or zinc powder coat. Note: When ordering powder coat, model number is CB4P/CB4L/CB4S.

Use all specified fasteners, see General Notes

For full loads, minimum side cover required is 3" for CB

Install all models with fasteners of same grade. Fasteners must be installed from inside of base and fasteners are not recommended for roof-top supported installations (such as towers or elevated canopies)

Options:

- CB4 is available in rough slabs. Other slabs available for CB4, specify the end grain orientation. Contact Simpson Strong-Tie for full sizes and alternate levels.

Column Base is 1/2" for C-Channel Reference Key Chart

Simpson Strong-Tie® Wood Connection Composites

CB

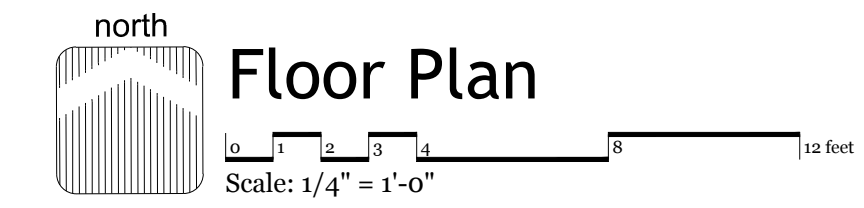
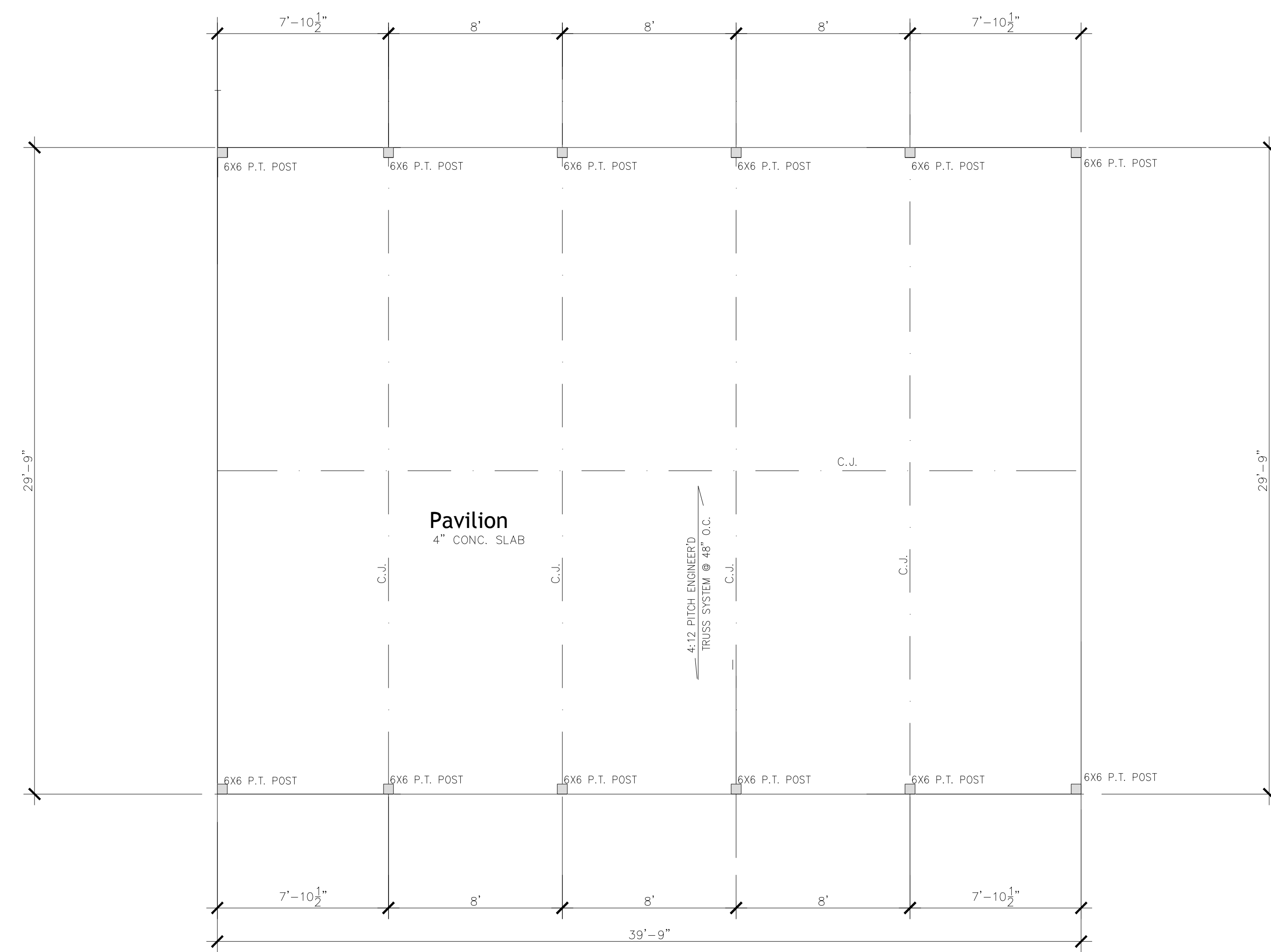
Column Base (cont.)

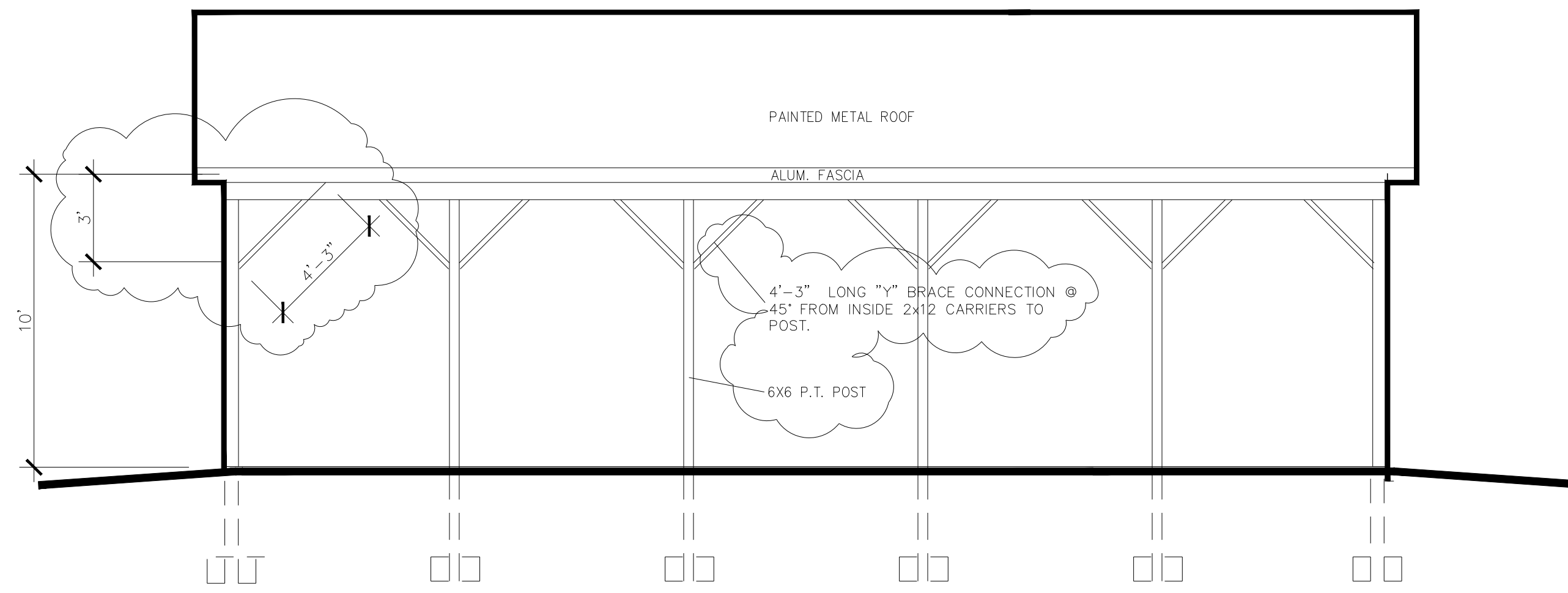
These products are available with additional connection options. For more information, see 1/2".

Model No.	Nominal Column Size	W ₁	W ₂	Dimensions (in)	Column Fasteners	Allowable Uplift Loads (lb) or (kN) (R/F)				Side Bolts
						Wind and Seismic	Wind and Seismic	Wind and Seismic	Wind and Seismic	
CB4	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
CB4L	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"
CB4S	4"	4"	4"	4"	4"	4"	4"	4"	4"	4"

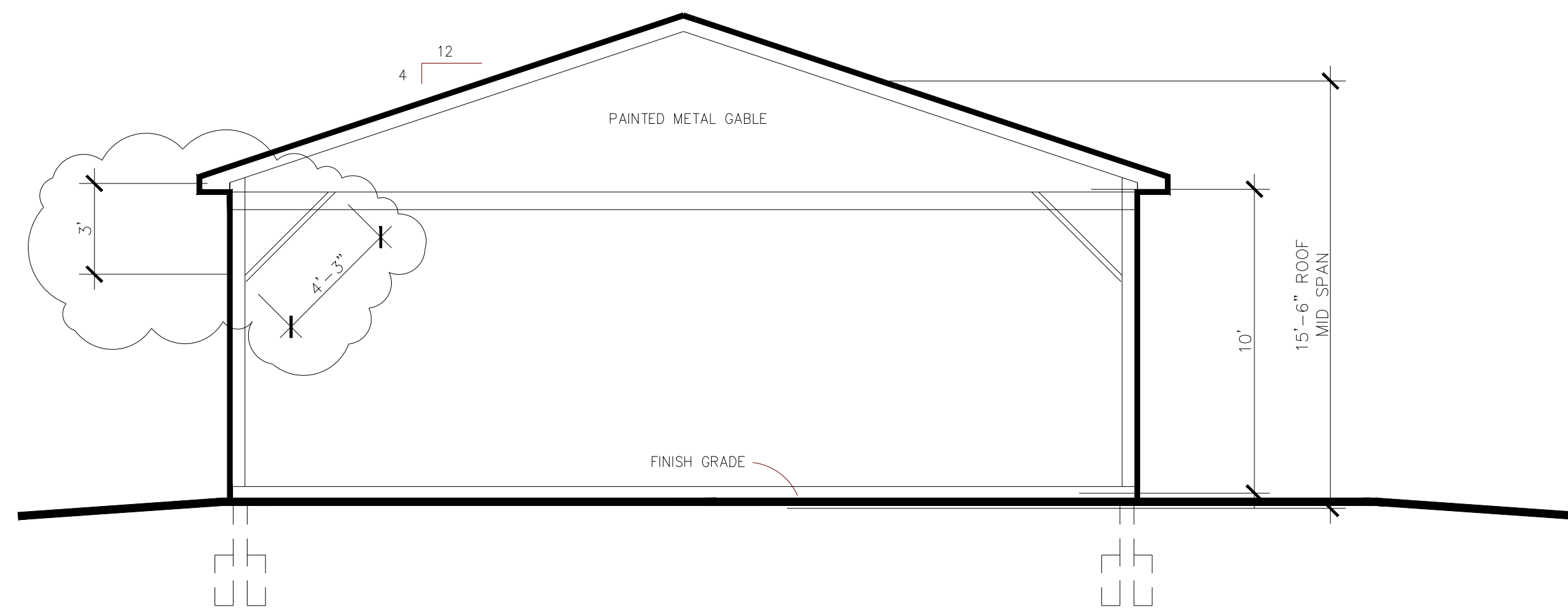
Notes:

- Uplift may not be required for duration of load.
- Columns shall have a minimum compression strength of $F_c = 3,000$ psi.
- In seismic applications, model CB4S requires a minimum of 1/4" end grain load values by 1.0" D x 4" @ 20" O.C.
- For applications with 1/2" diameter CB4, a minimum 1/2" end grain load values by 1.0" D x 4" @ 20" O.C.
- May use 1/2" and 3/4" diameter CB4S.
- Fasteners shall be installed in accordance with the requirements of the plans.
- Designer is responsible for concrete design.

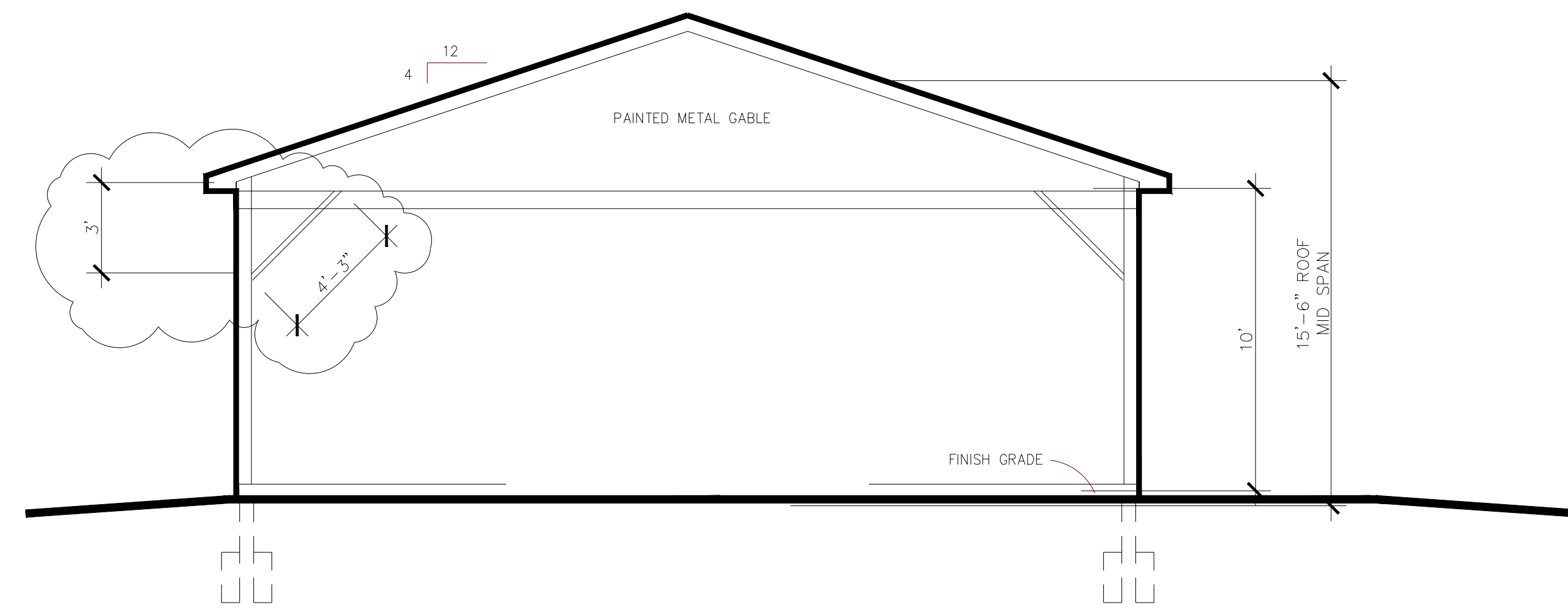




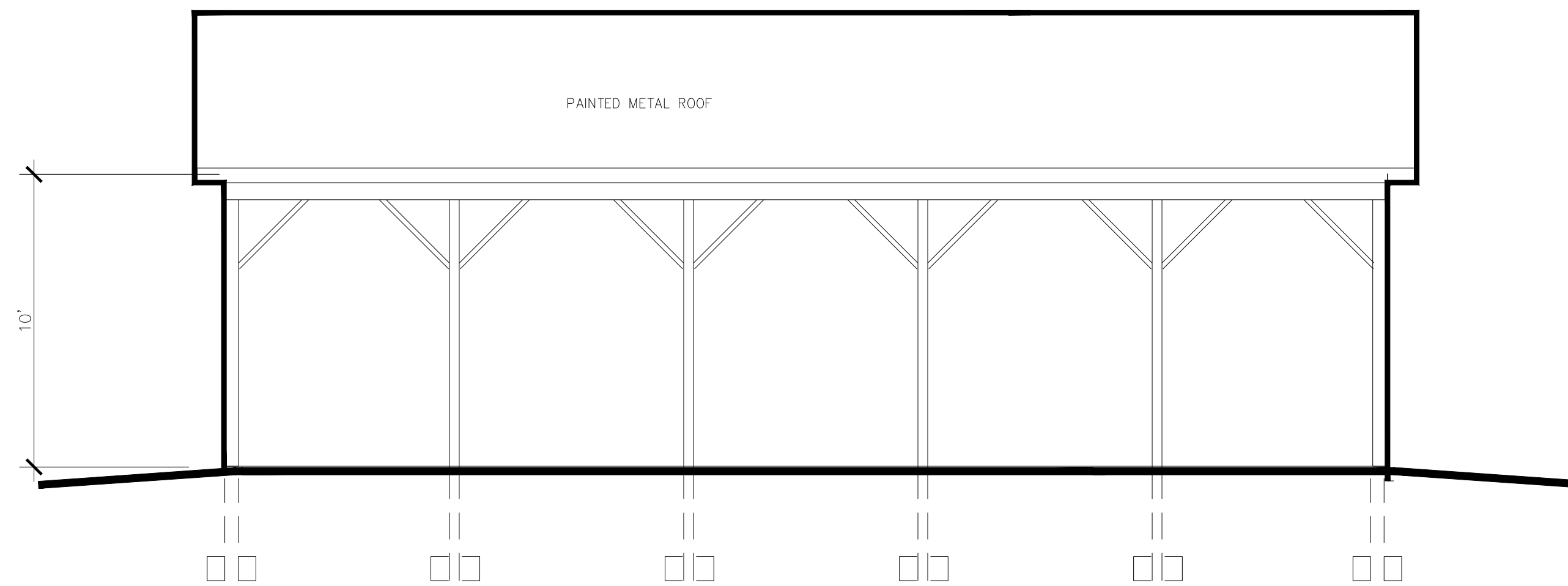
North Building Elevation
Scale: 1/4" = 1'-0"



West Building Elevation
Scale: 1/4" = 1'-0"



East Building Elevation
Scale: 1/4" = 1'-0"



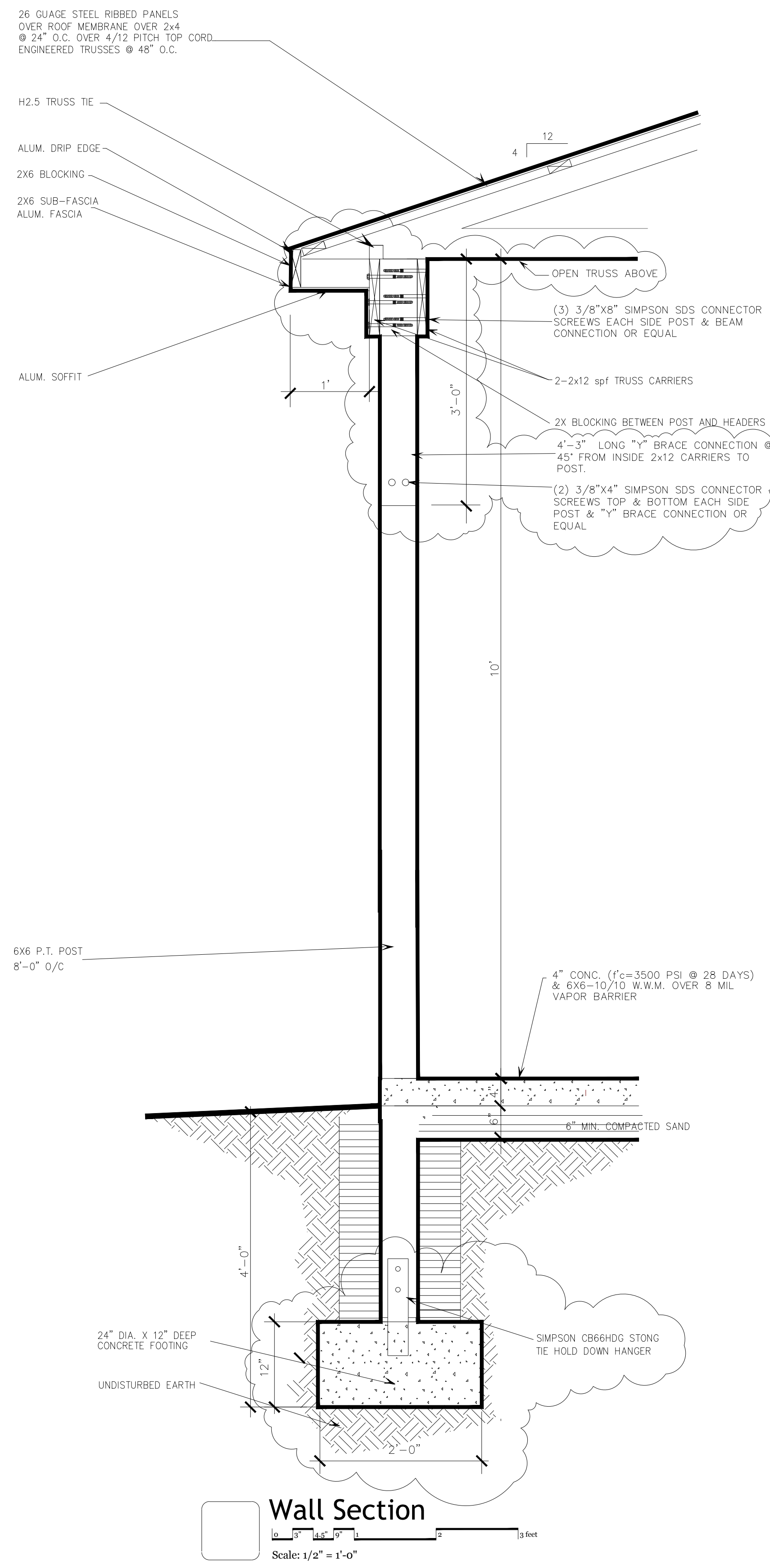
South Building Elevation
Scale: 1/4" = 1'-0"



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Project No:	2021-32	Issued for:	Date
Drawn By: <td>OEC <td></td> <td>15 April 2021</td> </td>	OEC <td></td> <td>15 April 2021</td>		15 April 2021
Sheet Contents: <td>Building Elevations</td> <td></td> <td>26 Jan 2022</td>	Building Elevations		26 Jan 2022
		C.D.	
		REV:	1



SUBGRADE PREPARATION:

THE TOPSOIL, FILL SOILS, ORGANIC SOILS, SOFT SOILS AND ANY OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM THE BUILDING AND PARKING AREAS PRIOR TO PLACEMENT OF ENGINEERED FILL. THE RESULTING GRADE SHOULD THEN BE PROOF ROLLED WITH A LOADED TANDEM TRUCK OR FRONT LOADER TO DEVELOP ANY WEAK AREAS IN THE GRADE. THE SOIL IN ANY WEAK AREA SHOULD BE REMOVED AND REPLACED WITH DRIER SIMILAR SOILS AND PROOF ROLLED TO PROVEN COMPACTION.

PRIOR TO PLACEMENT OF ANY FILL, THE SUBGRADE SHOULD BE STEPPED AND BENCHED. ANY FILL PLACED IN THE BUILDING OR PARKING AREAS SHOULD BE AN APPROVED MATERIAL FREE OF FROZEN SOIL, ORGANIC OR OTHER DELETERIOUS MATERIAL. THE SOILS ENCOUNTERED IN THE BORINGS APPEAR TO BE SUITABLE FOR RE-USE AS ENGINEERED FILL. CLAY SOILS USED AS FILL SHOULD BE PLACED WITHIN 2% OF THEIR OPTIMUM MOISTURE CONTENT. THEY WILL REQUIRE THE USE OF SHEEP-FOOT COMPACTORS AND IT MAY ALSO BE NECESSARY TO USE A DISC TO AERATE SOILS WITH MOISTURE CONTENTS THAT ARE OVER OPTIMUM. IT SHOULD BE NOTED THAT IT WILL BE DIFFICULT TO CONTROL THE MOISTURE CONTENT IN CLAY SOILS DURING COLD AND/OR WET WEATHER CONDITIONS. IF FILL IS TO BE PLACED THIS WINTER, CLAY SOIL SHOULD NOT BE USED.

IT IS RECOMMENDED THAT ANY ADDITIONAL FILL SOIL BROUGHT IN FROM OFF THE SITE CONSIST OF A GRANULAR MATERIAL MEETING THE GRADATION REQUIREMENTS FOR MDOT CLASS II BACKFILL.

FILL SOILS SHOULD BE PLACED IN 9" LOOSE LIFTS AND UNIFORMLY COMPACTED TO A T LEAST 95.0 MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 (MODIFIED PROCTOR). ENGINEERED FILL SHOULD BE

MASONRY

CONCRETE MASONRY PIERS AND ERECTION SHALL CONFORM TO SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY BY 'NATIONAL CONCRETE ASSOCIATION' AND ASTM C90 WITH A MINIMUM COMPRESSIVE PRISM STRENGTH OF 1800 PSI.

MORTAR FOR CONCRETE AND MASONRY SHALL CONFORM TO ASTM C270 TYPE M WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI FOR BELOW GRADE APPLICATIONS AND TYPE S MORTAR WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI FOR ABOVE GRADE APPLICATIONS.

GROUT TO FILL CORES OF PIERS WHERE INDICATED SHALL CONFORM TO ASTM C476 WITH MINIMUM COMPRESSIVE CYLINDER STRENGTH OF 2500 PSI AT 28 DAYS. GROUT SHALL BE RODDED AND OR VIBRATED TO INSURE COMPLETE FILLING OF THE CORES.

HORIZONTAL JOINT REINFORCEMENT SHALL BE TRUSS TYPE. IT SHALL BE PLACED AT 16" ON CENTER IN ALL PIERS. WIRES SHALL BE 9 GAGE CONFORMING TO ASTM A82. PREFABRICATED CORNER SECTIONS SHALL BE USED AT ALL MASONRY WALL CORNERS.

NO MASONRY SHALL BE LAID WHEN OUTSIDE TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT UNLESS METHODS APPROVED BY ENGINEER ARE USED DURING CONSTRUCTION TO PREVENT DAMAGE TO THE MASONRY.

SLABS

STRUCTURAL SLABS AND THICKENED FLOORS SHALL BE PLACED IN ACCORDANCE WITH THE PLANS.

PROVIDE W1.4 X W1.4 6X6 WWF REINFORCEMENT UNLESS INDICATED OTHERWISE ON THE DRAWINGS. PLACE FABRIC A MINIMUM OF 1 1/2" AND A MAXIMUM OF 2" BELOW THE TOP SLAB. OVERLAP LENGTH FOR THE SPLICES SHALL BE NO LESS THAN 6" MEASURED BETWEEN THE OUTERMOST CROSS WIRES OF EACH FABRIC SHEET.

CONCRETE AND STEEL
CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 P.S.I.

REINFORCING BARS: ASTM A615 GRADE 60, DEFORMED.

WELDED WIRE FABRIC: ASTM A185 OR USE CONCRETE w/ FIBERMESH

INSTALL AND COVER ALL CONCRETE REINFORCEMENT AS PER CURRENT 'ACI' CODES.

HOT ROLLED SHAPED TO BE ASTM A36; TUBE SECTIONS TO BE ASTM A500 GRADE B.

GENERAL

THE STRUCTURAL STEEL, MASONRY, CONCRETE, AND WOOD WALLS HAVE BEEN DESIGNED TO RELY UPON THE ROOF AND FLOOR SYSTEM FOR STABILITY. CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING FOR ALL STRUCTURAL STEEL AND MASONRY WALLS UNTIL PERMANENT BRACING, AND FLOOR SLABS HAVE BEEN INSTALLED AND THESE ELEMENTS ARE INTERCONNECTED ACCORDING TO THE DRAWINGS.

GEOTECHNICAL NOTE:

1. THE FOUNDATIONS AND BUILDING SLABS FOR THIS SITE WILL BEAR ON NATIVE SOILS OR ENGINEERED FILL. A PROFESSIONAL GEOTECHNICAL ENGINEER OR HIS ACCREDITED REPRESENTATIVE SHALL VERIFY ALL BEARING CAPACITIES PRIOR TO PLACEMENT OF FOUNDATIONS OR SLABS. A PROFESSIONAL GEOTECHNICAL ENGINEER OR HIS ACCREDITED REPRESENTATIVE SHALL VERIFY ALL FILLING OPERATIONS, SUCH THAT THE ENGINEERED FILL DOES NOT CONTAIN FROZEN OR UNSUITABLE MATERIAL THAT IT MEETS THE SPECIFICATION OF MDOT CLASS II, AND IS PLACED AND COMPACTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PLANS.



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Project No:	2021-32	Issued for:	Date	C.D.
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