HINDU TEMPLE OF NORTHEAST WISCONSIN
KAUKAUNA, WI

PROJECT TEAM

ARCHITECT
ARCHITECTS GROUP LIMITED
1825 SOUTH WEBSTER AVE. SUITE 202
GREEN BAY, WI 54301
920-432-1232

STRUCTURAL
DDK ENGINEERING
6311 BLACK WOLF POINT RD
OSHKOSH, WI 54902
920-688-5546

HVAC
ANDHOLE ENGINEERING, LLC
808 WINDING WATERS WAY
DEPERE, WI 54115
920-205-0042

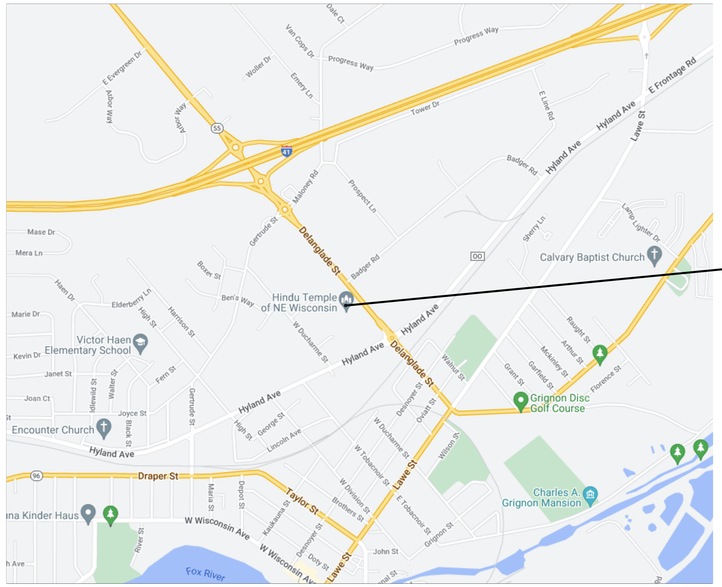
ARCHITECTURAL ABBREVIATIONS

AB	ANCHOR BOLT
A/C	AIR CONDITIONING
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
ARCH	ARCHITECTURAL
BO	BOTTOM OF
BOT	BOTTOM
BOW	BOTTOM OF WALL
BUR	BUILT UP ROOFING
CF	CUBIC FEET
CH	CHANNEL
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL/COLS	COLUMN/COLUMNS
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CT	CERAMIC TILE
DBL	DOUBLE
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DTL/DET	DETAIL
DWG	DRAWING
EA	EACH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEV	ELEVATION-HEIGHT
ELEC	ELECTRIC
EQ	EQUAL
EXTG	EXISTING
FD	FLOOR DRAIN
FDN	FOUNDATION
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FLR	FLOOR
FT	FOOT/FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GL	GLASS
GLU LAM OR GLB	GLUE LAMINATED BEAM
GYP BD	GYPSUM WALL BOARD
H OR HORZ	HORIZONTAL
HM	HOLLOW METAL
HT	HEIGHT
HTG	HEATING
IN	INCH
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
JT	JOINT
LB	POUND
LF	LINEAL FEET
LTWT	LIGHTWEIGHT
LVL	LAMINATED VENEER LUMBER
MANUF	MANUFACTURER
MAT	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MDF	MEDIUM DENSITY FIBER BOARD
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
#	NUMBER
OC	ON CENTER
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
PCBL	PAINTED CONCRETE BLOCK
PGB	PAINTED GYPSUM BOARD
PL	PLATE
PLAM	PLASTIC LAMINATE
PLY	PLYWOOD
PNL	PANEL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PORCELAIN TILE
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
QTY	QUANTITY
R	RISER
RD	ROOF DRAIN
RE	REGARDING
REF	REFERENCE
REFG	REFRIGERATOR
REINF	REINFORCED
REQD	REQUIRED
RM	ROOM
RO	ROUGH OPENING
SACT	SUSPENDED ACOUSTICAL CEILING TILE
SCHED	SCHEDULE
SF	SQUARE FEET
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SIP	STRUCTURAL INSULATED PANEL
SPECS	SPECIFICATIONS
SS	STAINLESS STEEL
STD	STANDARD
STRUCT	STRUCTURAL
STL	STEEL
SUB FLR	SUB FLOOR
T&G	TONGUE & GROOVE
THRU	THROUGH
TJI	TRUSS JOIST INCORPORATED
TO	TOP OF
TOB	TOP OF BEAM
TOP	TOP OF PLATE
TO FTG	TOP OF FOOTING
TOS	TOP OF STEEL
TOSL	TOP OF SLAB
TOW	TOP OF WALL
TP DISP	TOILET PAPER DISPENSER
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITE TILE
VERT	VERTICAL
VB	VINYL BASE
W/	WITH
WC	WATER CLOSET
WD	WOOD
W/O	WITHOUT
WT	WEIGHT
WWM	WELDED WIRE MESH

Conditionally
APPROVED
DEPT. OF SAFETY AND PROFESSIONAL SERVICES
DIVISION OF INDUSTRY SERVICES
Joan Hansen

SEE CORRESPONDENCE

Building and HVAC Addition
CB-122200608-PRBH
12-15-2022



HINDU TEMPLE OF
NORTHEAST WISCONSIN
911 DELANGLADE STREET
KAUKAUNA, WI 54130

LOCATION MAP

MATERIALS

UNLESS NOTED OTHERWISE

- RIGID INSULATION
- BATT. INSULATION
- BLOWN INSULATION
- WOOD - ROUGH CUT
- WOOD - FINISH
- BRICK
- BLOCK
- STONE
- CONCRETE
- COMPACTED FILL
- EARTH
- GYPSUM BOARD
- STEEL

SYMBOLS

- COMMUNITY ROOM 152 — ROOM SYMBOL EX: ROOM NAME/ROOM NUMBER
- 137A — DOOR TAG SEE DOOR SCHEDULE
- DOOR SYMBOL EX:DOOR/DIR. OF SWING
- A — WINDOW TAG SEE WINDOW TYPE ELEVATIONS
- 3 / A400 — INTERIOR ELEVATION EX: SHEET A400, DETAIL 3
- 7 / A204 — EXTERIOR ELEVATION EX: SHEET A204, DETAIL 7
- A / A302 — BUILDING SECTION EX: SHEET A302, DETAIL A
- 12 / A602 — DETAIL CALL-OUT EX: SHEET A602, DETAIL 12

INDEX TO DRAWINGS

CODE INFO

CODES REVIEWED
2015 INTERNATIONAL BUILDING CODE
2009 ANSI A117.1 HANDICAP ACCESSIBILITY

EXISTING BUILDING	7047 S.F.
ADDITION	1865 S.F.
TOTAL BUILDING	8912 S.F.

BUILDING OCCUPANCY — ASSEMBLY A-3
BUILDING CONSTRUCTION — TYPE 5B, UNSPRINKLERED

MAX. BUILDING OCCUPANCY IS 192 PEOPLE BASED ON SEATING CAPACITY SHOWN ON FLOOR PLAN.

TOILET FACILITIES
PER 2902.1
REQUIRED FOR 96 PEOPLE/SEX FPR A-3 USE

	M	F	M	F
WC / URINAL	1 / 150	1 / 75	1	2
LAV	1 / 200	1 / 200	1	1
D.F.	1 / 1000		1	
SERVICE SINK	1		1	

PROVIDED TOILET FACILITIES EXCEED REQUIRED

	M	F
WC / URINAL	4	4
LAV	2	2
D.F.	2	
SERVICE SINK	1	

PER 506.2, MAX. FLOOR AREA IS 6000 S.F. FOR UNSPRINKLERED BUILDING AREA INCREASE BASED UPON 506.2.1 WHERE MIN. 20' IS OPEN SPACE AROUND BUILDING PERIMETER.

ALLOWABLE AREA = $A_t + (NS \times I_F)$
$I_F = [Y/P - .25] \; W/30$

$A_t = 6000$
NS = 6000
F = 373.52 FT
P = 404.62 FT
W = 30 FT
$I_F = .673$

ALLOWABLE AREA = 10038 S.F. TO BE INCREASED TO AND THIS IS ONLY 8912 S.F.

STATE OF WISCONSIN
DAVID JAMES JOHNSON
A-3002
Green Bay, Wis.
REGISTERED ARCHITECT
11.7.22

HINDU TEMPLE OF NORTHEAST WISCONSIN
911 DELANGLADE STREET
KAUKAUNA, WI 54130

TITLE, INDEX TO DRAWINGS, GRAPHICS, LOCATION MAP

JOB NO.	2022-030
DRAWN BY	DJB
REVISED	
DATE	11/07/2022

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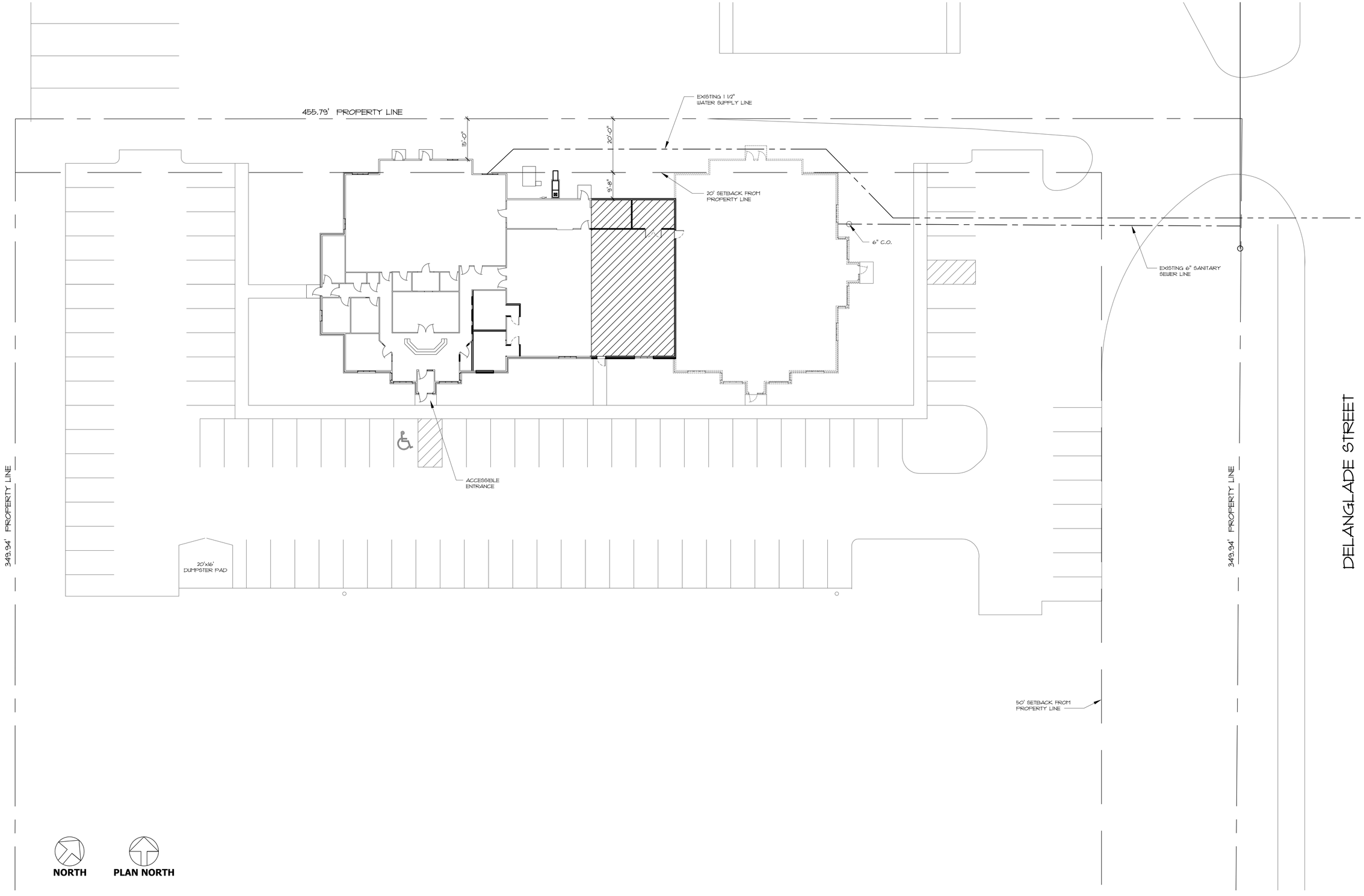

1 SITE PLAN
SCALE: 1/16" = 1'-0"

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SITE PLAN

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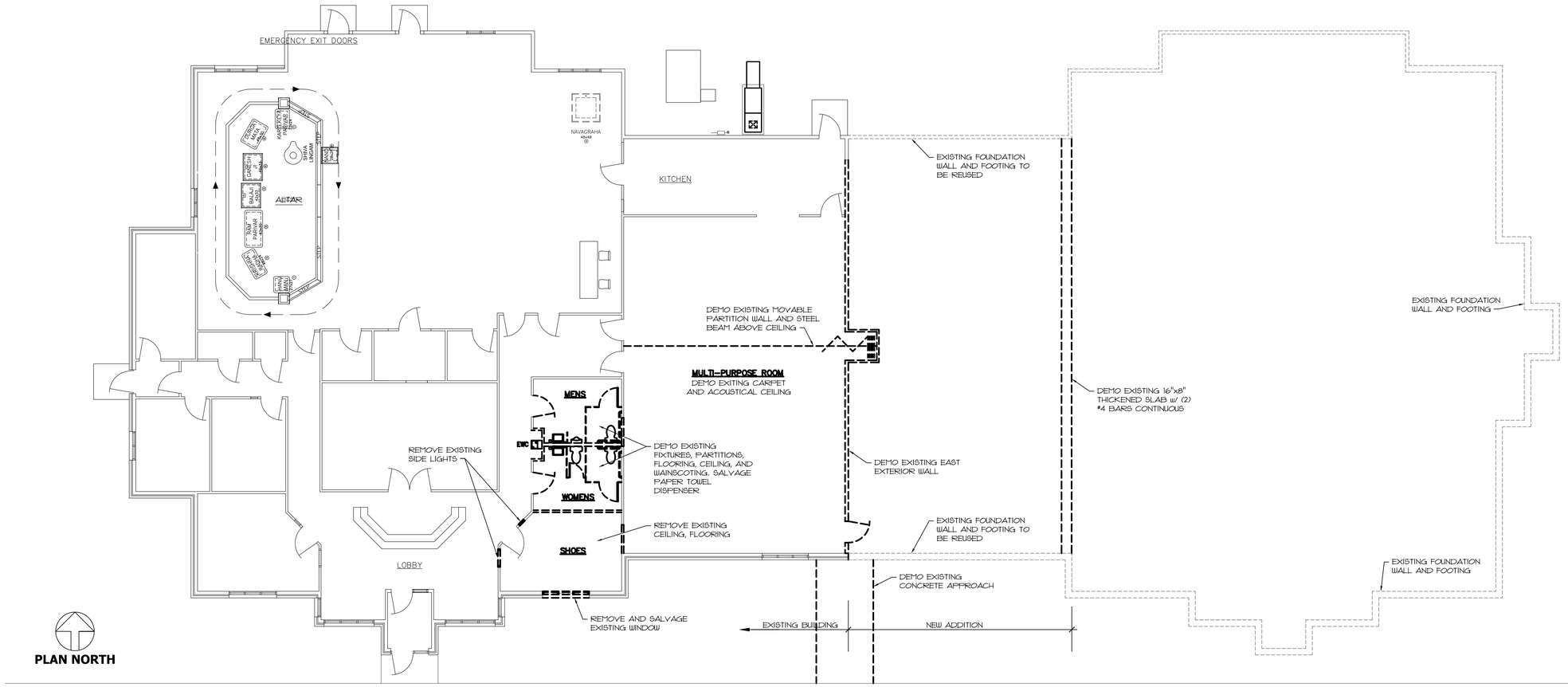

1 OVERALL FLOOR PLAN - DEMO

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

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OVERALL FLOOR PLAN - DEMO

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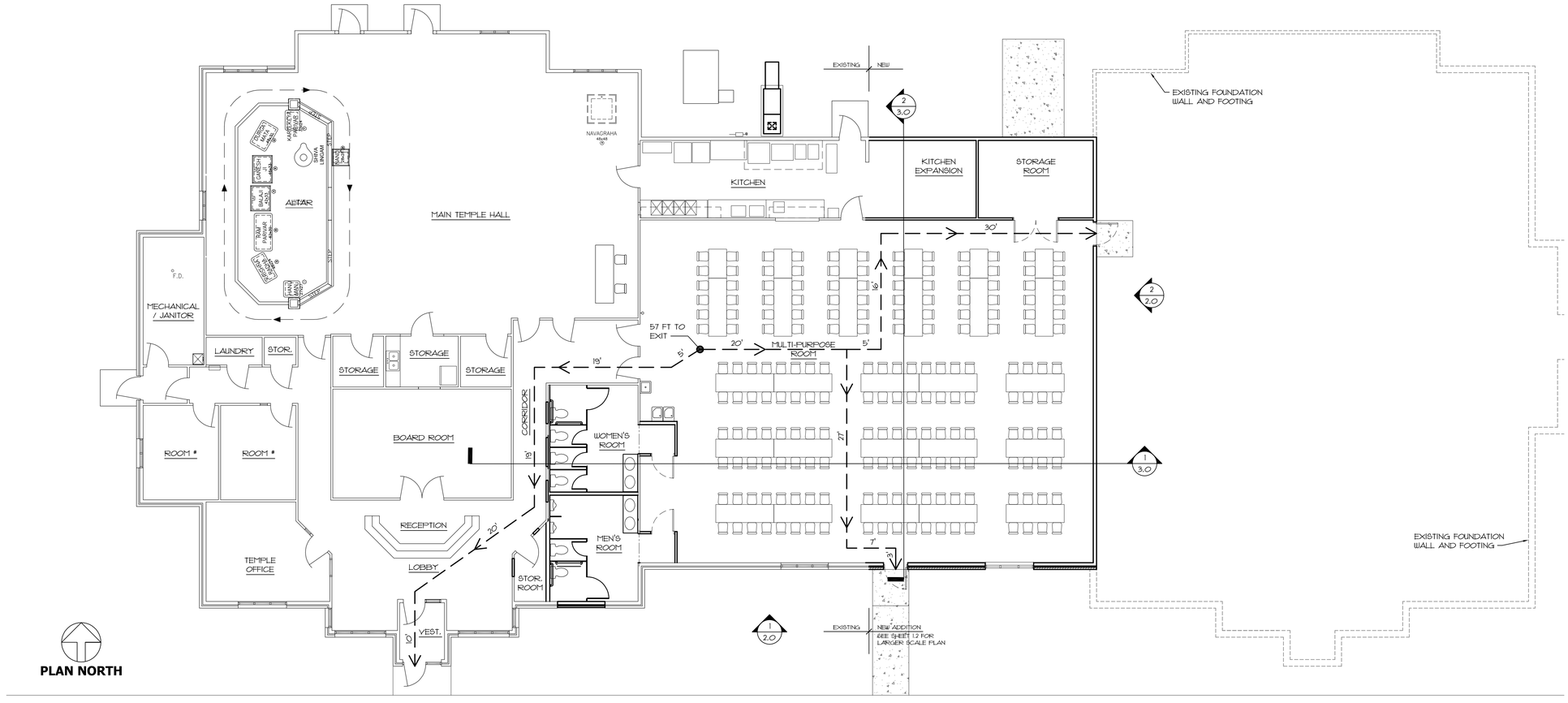

1 OVERALL FLOOR PLAN - NEW

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

EXIT PATH OF TRAVEL LESS THAN 75'.

REQUIRED EXIT OUT OF THE MULTI-PURPOSE ROOM FOR 192 PEOPLE IS 38.4 INCHES THRU EXIT DOORS. THE CLEAR WIDTH THROUGH 3 EXIT DOORS IS 33" / DOOR OR 99" TOTAL. REQUIRED EXITING EXCEEDS CODE REQUIREMENTS.

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OVERALL FLOOR PLAN - NEW

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11/14/2022 8:48:40 AM

WALL TYPES

- (A) 2 LAYERS 5/8" F.C. GYP. BD. OVER VAPOR BARRIER OVER 2x6 STUDS @16" O.C. WITH R21 FIBERGLASS INSULATION BETWEEN OVER 1/2" PLYWOOD OVER 1" RIGID INSULATION OVER AIR BARRIER OVER DOUBLE 4" VINYL SIDING
- (B) 1/2" GYP. BD. OVER VAPOR BARRIER OVER 2x6 STUDS @16" O.C. WITH R21 FIBERGLASS INSULATION BETWEEN OVER 1/2" PLYWOOD OVER 1" RIGID INSULATION OVER AIR BARRIER OVER DOUBLE 4" VINYL SIDING
- (C) 1/2" F.C. GYP. BD. OVER VAPOR BARRIER OVER 2x6 STUDS @16" O.C. WITH R21 FIBERGLASS INSULATION BETWEEN OVER 1/2" PLYWOOD OVER 1" RIGID INSULATION OVER AIR BARRIER OVER 4" MASONRY VENEER
- (D) 1/2" GYP. BD. EACH SIDE OF 2x4 STUDS @ 16" O.C. EXTEND WALLS TO UNDERSIDE OF TRUSS ABOVE. AT BATHROOMS, INSTALL 3" SOUND BATTS IN WALL
- (E) 1/2" GYP. BD. EACH SIDE OF 2X4 STUDS @ 16" O.C. W/3" SOUND BATTS BETWEEN. EXTEND WALLS TO UNDERSIDE OF TRUSS ABOVE
- (F) 1/2" GYP. BD. EACH SIDE OF 2X6 STUDS @ 16" O.C. W/3" SOUND BATTS BETWEEN. EXTEND WALLS TO UNDERSIDE OF TRUSS ABOVE
- (G) INFILL OPENING WITH 2X4 AND 1/2" GYP. BD. EACH SIDE. BLEND INTO EXISTING WALL AND PAINT EXISTING WALL. INSTALL 3" SOUND BATTS FULL HEIGHT OF WALL

MAIN TEMPLE HALL
110

ALTAR
DURGA MATA 48x48
KARTEKEYA PARIVAR 42x24
GANESH JI 46x33
BALAJI 42x33
RAM PARIVAR 42x30
KRISHNA RADHA 42x24
HANUMAN 27x27
SHIVA LINGAM
NAVAGRAHA 48x48
NANDI 28x28
STEP

EXISTING BUILDING | NEW ADDITION

NEW CONCRETE EQUIPMENT PAD. SEE SHEET M2 FOR SIZE AND LOCATION

EXISTING FOUNDATION WALL TO REMAIN

KITCHEN 104
KITCHEN STORAGE 104A
STORAGE 105
105A
103B
SEE SHEET S2 FOR STOOP

EXISTING BEARING WALL

RELOCATE FIRE EXTINGUISHER TO HERE

MULTI-PURPOSE ROOM 103

TOTAL SEATING: 192

SEATING BY OWNER

STOR.
STORAGE 113
STORAGE 112
STORAGE 111
CORRIDOR 114
BOARD ROOM 109
RECEPTION
LOBBY 100
VESTIBULE 100A
CORRIDOR 102
WOMEN'S 106
MEN'S 107
STORAGE ROOM 101
106A
107A
HAND WASHING STATION
DRINKING FOUNDAINS
LINTEL
6" STUDS
EXISTING BEARING WALL

INFILL EXISTING WINDOW OPENING WITH 1/2" GYP. BD. OVER VAPOR BARRIER OVER 2x6 STUDS @ 16" O.C. WITH R21 FIBERGLASS INSULATION BETWEEN AND 1/2" PLYWOOD SHEATHING WITH AIR BARRIER OVER AND COVERED WITH MINIMUM 3" EIFS. CAULK PERIMETER OF EIFS

EXISTING WINDOW TO REMAIN

INSTALL SALVAGED WINDOW

103A

EXISTING BUILDING | NEW ADDITION

SEE SHEET S2 FOR STOOP

EXISTING FOUNDATION WALL TO REMAIN

NEW CONCRETE APPROACH 4" THICK OVER COMPACTED FREE-DRAINING BASE

EXISTING CONCRETE SIDEWALK

PLAN NORTH

1 PARTIAL FLOOR PLAN - NEW
SCALE: 1/4" = 1'-0"

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PARTIAL FLOOR PLAN - NEW

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AGL

1.2

EXISTING BUILDING | NEW ADDITION

MAIN TEMPLE HALL
110

KITCHEN
104

2x2 VINYL FACED GYP. BD. TILE

KITCHEN STORAGE
104A

MATCH EXISTING CEILING TO TIE INTO

STORAGE
105

9'-6"

EXISTING ATTIC ACCESS ABOVE CEILING

MULTI-PURPOSE ROOM
103

10'-1"

2'-3" FROM CEILING TO TRUSS

2x2 TEGULAR ACOUSTICAL CEILING TILE

STORAGE
113

STORAGE
112

STORAGE
111

2x2 VINYL FACED GYP. BD. TILE

CORRIDOR
114

BOARD ROOM
109

CORRIDOR
102

WOMEN'S
106

9'-0"

2x2 VINYL FACED GYP. BD. TILE

MEN'S
107

9'-0"

9'-0"

LOBBY
100

STORAGE ROOM
101

VESTIBULE
100A

EXISTING BUILDING | NEW ADDITION

PLAN NORTH

1 **PARTIAL REFLECTED CEILING PLAN - NEW**
SCALE: 1/4" = 1'-0"

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PARTIAL REFLECTED CEILING PLAN - NEW

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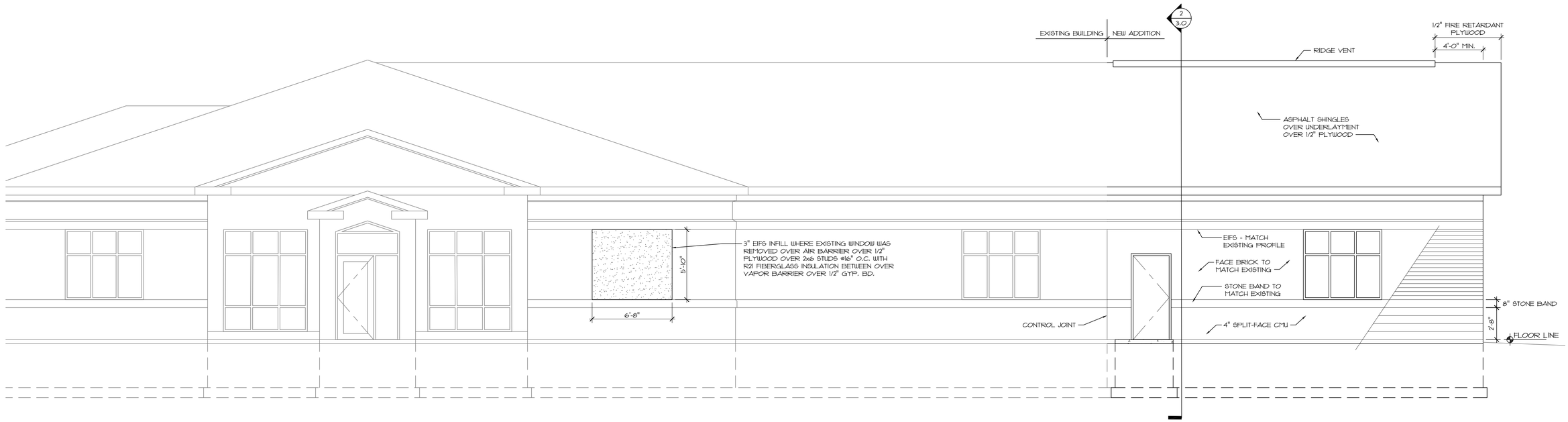
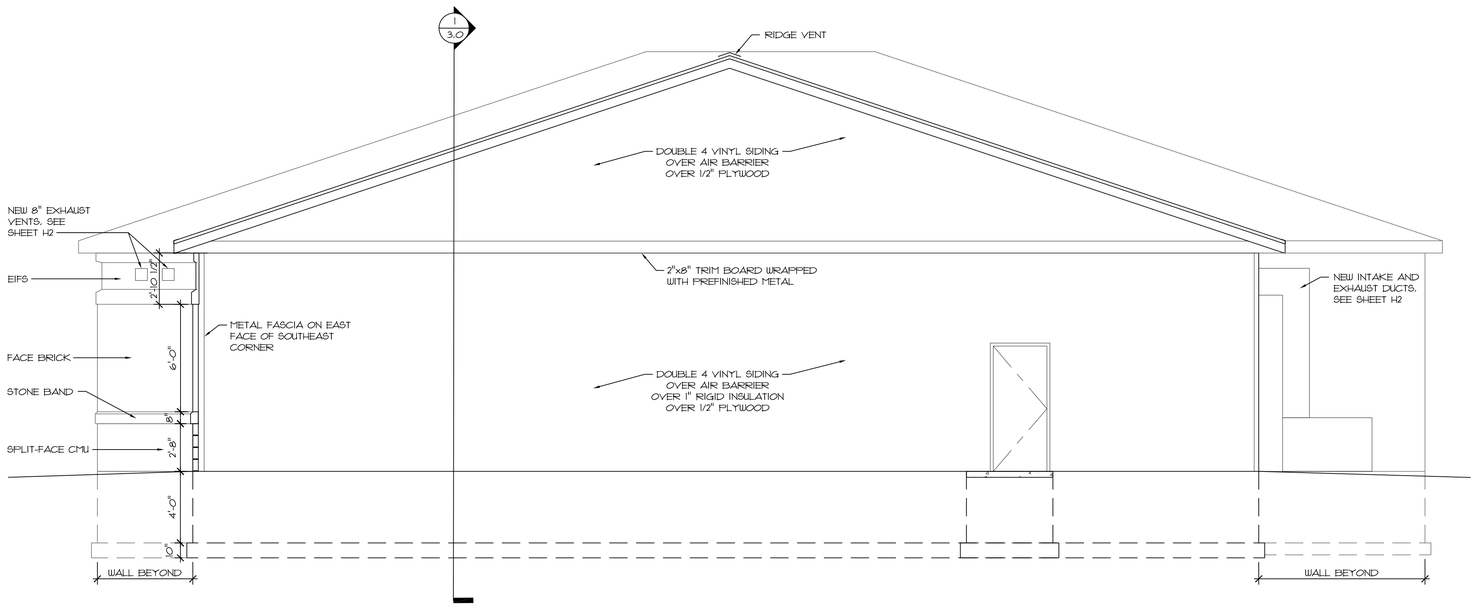
1.3



1 **SOUTH ELEVATION**
SCALE: 1/4" = 1'-0"



2 **EAST ELEVATION**
SCALE: 1/4" = 1'-0"

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EXTERIOR ELEVATIONS

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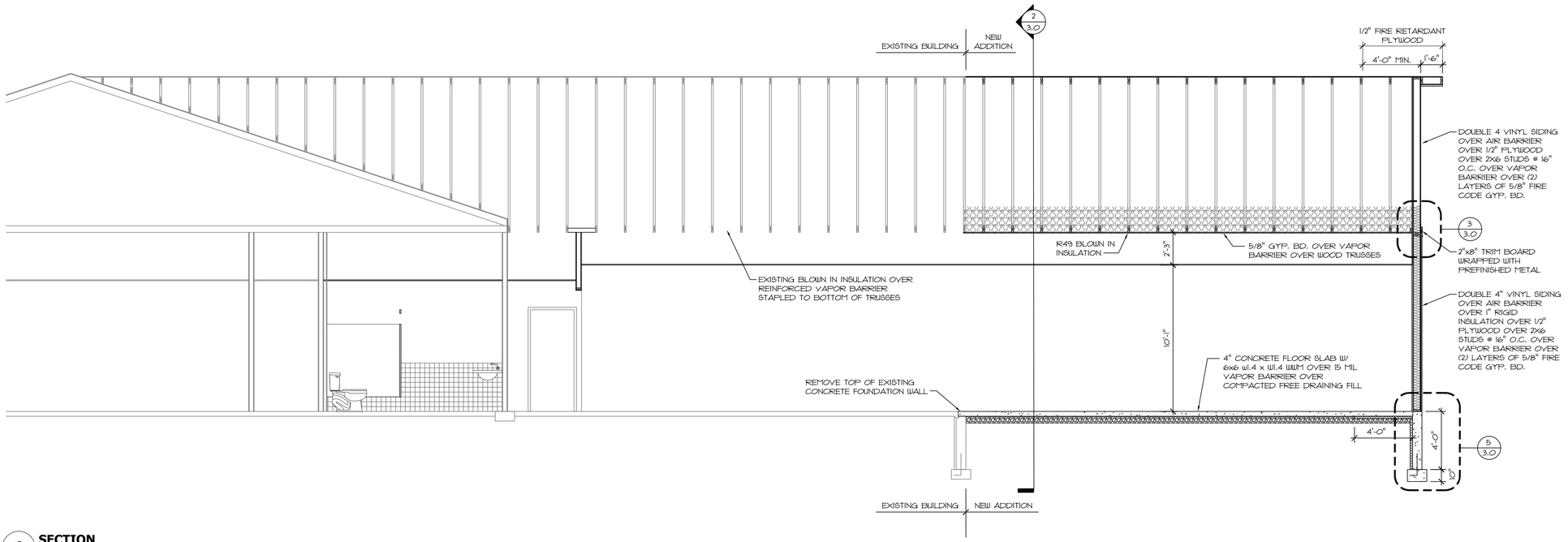
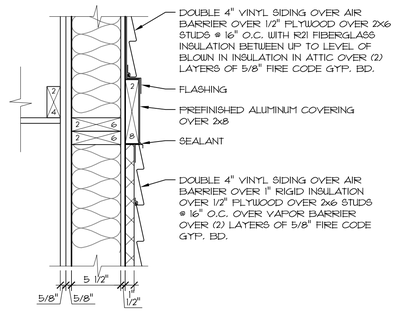
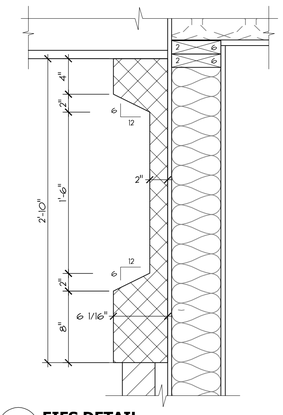


1 SECTION
SCALE: 1/4" = 1'-0"

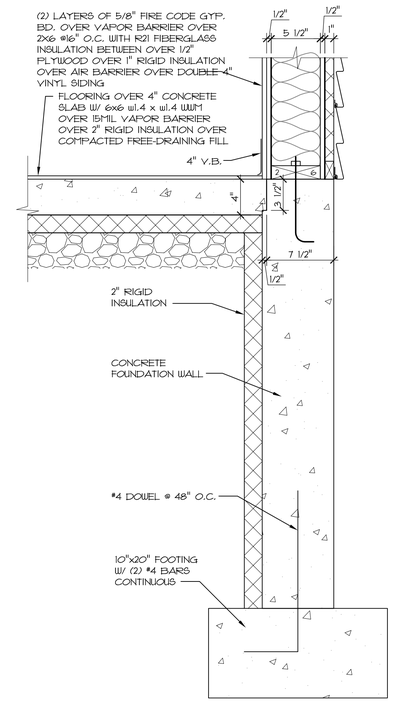
2 SECTION
SCALE: 1/4" = 1'-0"



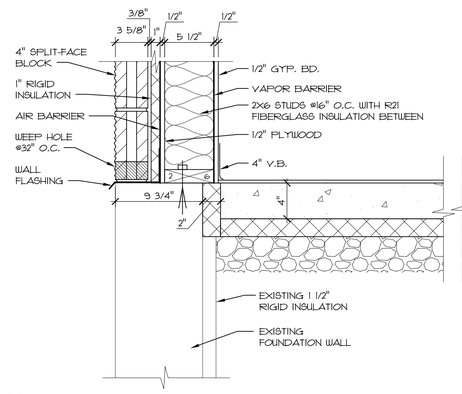
3 SECTION
SCALE: 1 1/2" = 1'-0"



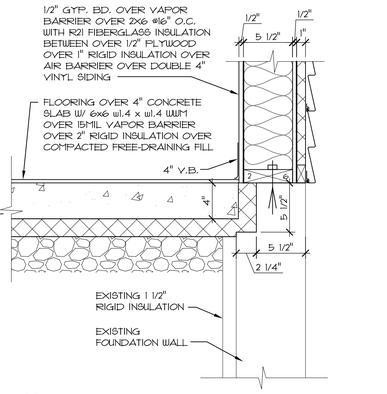
4 EIFS DETAIL
SCALE: 1 1/2" = 1'-0"



5 SECTION
SCALE: 1 1/2" = 1'-0"



6 SECTION
SCALE: 1 1/2" = 1'-0"



7 SECTION
SCALE: 1 1/2" = 1'-0"

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SECTIONS

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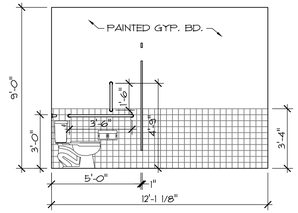
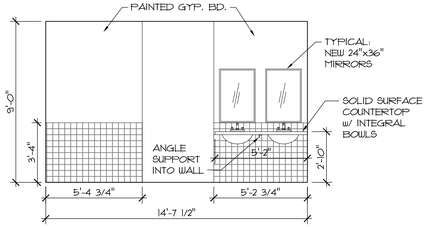
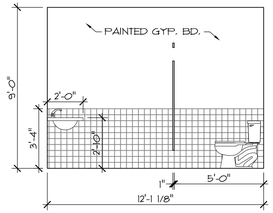


1 WOMEN'S RESTROOM - NORTH
SCALE: 1/4" = 1'-0"



2 WOMEN'S RESTROOM - EAST
SCALE: 1/4" = 1'-0"



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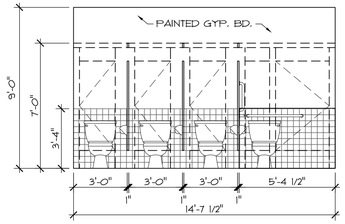
SCALE: 1/4" = 1'-0"



4 WOMEN'S RESTROOM - WEST
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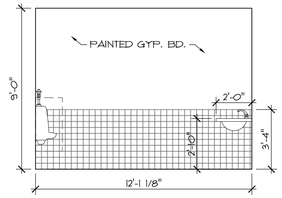
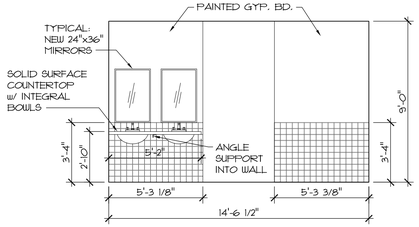
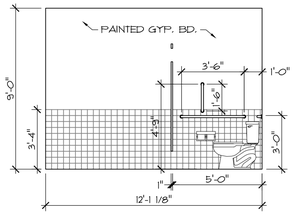


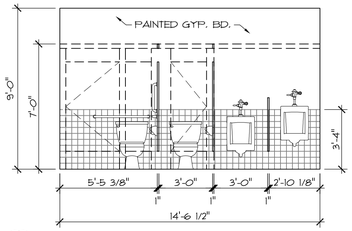
5 MEN'S RESTROOM - NORTH
SCALE: 1/4" = 1'-0"



6 MEN'S RESTROOM - EAST
SCALE: 1/4" = 1'-0"

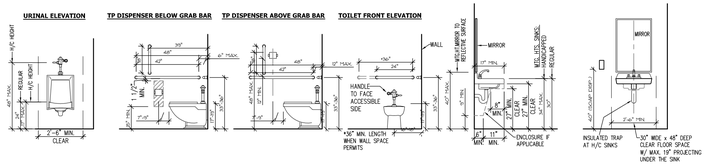


7 MEN'S RESTROOM - SOUTH
SCALE: 1/4" = 1'-0"



8 MEN'S RESTROOM - WEST
SCALE: 1/4" = 1'-0"

TYPICAL MOUNTING HEIGHTS - ADA



LEGEND:

NEW CERAMIC TILE (C.T.) WALL SYMBOL - CONTRACTOR TO VERIFY SIZE AND PATTERN WITH OWNER

ACCESSORY NOTES:

OWNER SHALL SUPPLY - CONTRACTOR INSTALL:
- SOAP DISPENSERS
- PAPER TOWEL DISPENSERS
  - REUSE FROM EXISTING TOILET ROOM
- DOUBLE TOILET ROLL DISPENSERS

TOILET STALL PARTITIONS SHALL BE PREFINISHED METAL

HINDU TEMPLE OF NORTHEAST WISCONSIN
911 DELANGLADE STREET
KAUKAUNA, WI 54130

INTERIOR ELEVATIONS

DATE	REVISED	JOB NO.
11/07/2022		2022-030
		DRAWN BY
		DJB

SET TYPE
- PRELIMINARY
- FINAL REVIEW
- BID DOCUMENT

ARCHITECTS GROUP LIMITED
1825 South Webster Avenue Suite 202
Green Bay, Wisconsin 54301
www.aglgb.com
920-432-1232 FAX 920-432-7283

4.0

ROOM FINISH SCHEDULE

RM#	ROOM NAME	FLOOR	BASE	WALLS				CEILING	CL'G HGT	FINISH NOTES
				N	E	S	W			
100	LOBBY	EXIST	EXIST	EXIST	G.B.P.	EXIST	EXIST	EXIST	-	
101	STORAGE ROOM	LVT	4" V.B.	G.B.P.	G.B.P.	G.B.P.	G.B.P.	SACT-1	9'-0"	
102	CORRIDOR	EXIST	4" V.B.	-	G.B.P.	EXIST	G.B.P.	EXIST	-	
103	MULTI-PURPOSE ROOM	LVT	4" V.B.	G.B.P.	G.B.P.	G.B.P.	G.B.P.	SACT-1	10'-1"	
104A	KITCHEN STORAGE	C.T.	C.T.	G.B.P.	G.B.P.	G.B.P.	G.B.P.	SGBT-1	#	# MATCH EXISTING HEIGHT
105	STORAGE ROOM	LVT	4" V.B.	G.B.P.	G.B.P.	G.B.P.	G.B.P.	SACT-1	9'-6"	
106	WOMEN'S ROOM	P.T.	C.T.	G.B.P.	G.B.P.	G.B.P.	G.B.P.	SGBT-1	9'-0"	SEE INTERIOR ELEVATIONS FOR C.T. WAINSCOT
107	MEN'S ROOM	P.T.	C.T.	G.B.P.	G.B.P.	G.B.P.	G.B.P.	SGBT-1	9'-0"	SEE INTERIOR ELEVATIONS FOR C.T. WAINSCOT

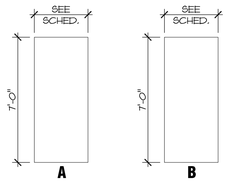
LEGEND:

C.T.	- CERAMIC TILE
EXIST	- EXISTING TO REMAIN
G.B.P	- GYPSUM BOARD PAINTED
L.V.T	- LUXURY VINYL TILE
P.T.	- PORCELAIN TILE
SACT-1	- SUSPENDED ACOUSTICAL TILE CEILING 24X24
SACT-2	- SUSPENDED ACOUSTICAL TILE CEILING - TEGULAR - 24X24
SGBT-1	- SUSPENDED VINYL FACED GYPSUM BOARD CEILING W/ALUMINUM GRID

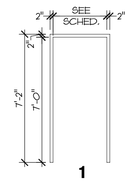
DOOR SCHEDULE

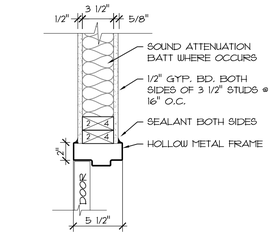
DOOR (1 3/4" UNLESS NOTED)					FRAME				FIRE RAT'G	HDWR GROUP	REMARKS
NO.	TYPE	MATERIAL	SIZE	GLASS	MAT'L	DETAILS		TYPE			
						HEAD	JAMB				
103A	A	HM	3'-0" x 7'-0"	-	H.M.	4	5	1	-		
103B	A	HM	3'-0" x 7'-0"	-	H.M.	3	2	1	1 1/2 HR		
105A	B	WD	3'-0" x 7'-0"	-	H.M.	1 SIM	1	1	-	2	
106A	B	WD	3'-0" x 7'-0"	-	H.M.	1 SIM	1	1	-	1	
107A	B	WD	3'-0" x 7'-0"	-	H.M.	1 SIM	1	1	-	1	

DOOR TYPES

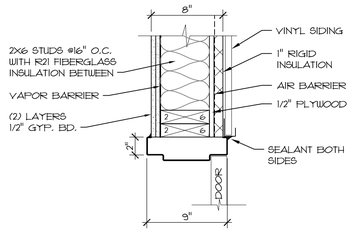


FRAME TYPES





1 JAMB (HEAD SIMILAR)
SCALE: 1 1/2" = 1'-0"



2 JAMB
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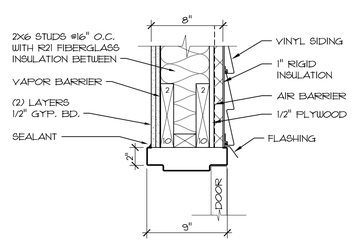
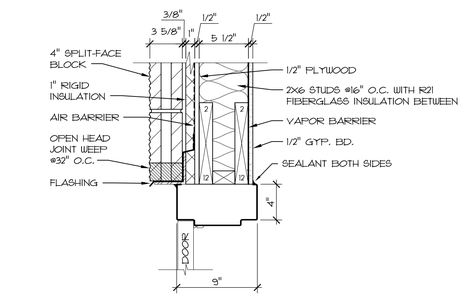
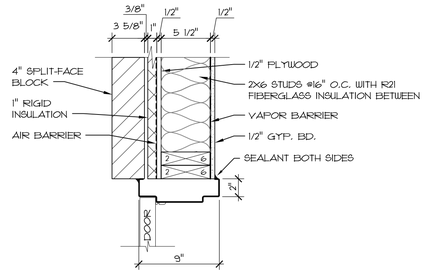


3 HEAD
SCALE: 1 1/2" = 1'-0"



4 HEAD
SCALE: 1 1/2" = 1'-0"



5 JAMB
SCALE: 1 1/2" = 1'-0"

HINDU TEMPLE OF NORTHEAST WISCONSIN
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SCHEDULES AND DETAILS

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ROOF/SNOW LOADS:

GROUND SNOW LOAD	Pg	40 PSF
IMPORTANCE FACTOR	I	1.0
EXPOSURE FACTOR	Ce	1.0
TEMPERATURE FACTOR	Ct	1.0
FLAT ROOF SNOW LOAD	Pf	28 PSF
SLOPED ROOF SNOW LOAD	Ps	28 PSF

UNBALANCED SNOW LOAD
- WINDWARD 9 PSF
- LEEWARD RIDGE TO 11' 48 PSF
- LEEWARD 11' TO EAVE 28 PSF

WIND LOADS PER ASCE 7-10

ULTIMATE WIND SPEED	120 MPH
IMPORTANCE FACTOR	1.0
EXPOSURE FACTOR	1.0

INTERNAL PRESSURE COEFFICIENT +/-0.18
NOMINAL PRESSURE = 0.6 * ULTIMATE
MAIN WIND FORCE RESISTING SYSTEM (NOMINAL PRESSURE)

WALLS	12.2 WINDWARD	-4.1 LEEWARD
ROOF	-8.9 WINDWARD	-5.0 LEEWARD

SEISMIC LOADS:
Ss: 0.07 Sds: 0.05
S1: 0.01 Sd1: 0.01
Ie: 1.0
OCCUPANCY CATEGORY: II
SITE CLASS: D
BASIC SEISMIC FORCE RESISTING SYSTEM: SHEAR WALLS (R=6.5)
SEISMIC DESIGN CATEGORY: A
Cs: 0.01 W

CODE REFERENCES
ALL WORK SHALL CONFORM TO THE LATEST VERSIONS OF THE FOLLOWING CONSTRUCTION AND MATERIAL CODES:

OVERALL:
- WISCONSIN ENROLLED COMMERCIAL CODE
- INTERNATIONAL BUILDING CODE 2015

CONCRETE:
- ACI 301 – "SPECIFICATIONS FOR STRUCTURAL CONCRETE" ACI
- MCP – "MANUAL OF CONCRETE PRACTICE"
- ACI 318 – "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
- ACI 318.1 – BUILDING CODE REQUIREMENTS FOR STRUCTURAL PLAIN CONCRETE"

CONCRETE REINFORCEMENT:
- ACI 315 – "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT
- ACI 318 – "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
- MSP2 – "CRSI MANUAL OF STANDARD PRACTICE"
- AWS D1.4 – "STRUCTURAL WELDING CODE – REINFORCING STEEL"
- WRI – "WELDED WIRE FABRIC MANUAL OF STANDARD PRCTICE"

STEEL REINFORCING MATERIAL SPECIFICATIONS:
- ASTM A615 (GRADE 60) DEFORMED
- WELDED WIRE FABRIC: ASTM A185

STRUCTURAL WOOD:
- NFPA – "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION"
- NFPA – "DESIGN VALUES FOR WOOD CONSTRUCTION"
- AITC – TIMBER CONSTRUCTION MANUAL, PART II DESIGN SPECIFICATIONS"
- APA – "US PRODUCT STANDARD PS 1-83 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD"
- LAMINATED VENEER LUMBER SHALL CONFORM TO TRUS JOIST CORPORATION MICROLLAM 1.9E

LVL SPECS
PRE FABRICATED WOOD TRUSSES:
- TRUSS PLATE INSTITUTE – SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED TRUSSES

GENERAL
1. ALL MATERIALS, WORKMANSHIP AND DETAILS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE "WISCONSIN ENROLLED COMMERCIAL BUILDING CODE".
2. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND STRUCTURAL DRAWINGS. CHASES, OPENINGS, INSERTS, SLEEVES OR OTHER ITEMS MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE AND INSTALL THESE ITEMS.
3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND PROJECT WORKPOINTS. REPORT ANY DISCREPANCIES TO THE ARCHITECT OR ENGINEER.
4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY ON THE CONTRUCTION SITE.

FOUNDATIONS
1. FOUNDATION WORK FOR THIS PROJECT SHALL CONSIST OF SPREAD FOOTINGS, GRADE BEAMS, CONTINUOUS WALL FOOTINGS, DRILLED CONCRETE PIERS, AND SLABS-ON-GRADE.
2. FOUNDATIONS ARE DESIGNED TO BE SUPPORTED ON APPROVED EXISTING SUBGRADE OR APPROVED COMPACTED STRUCTURAL FILL HAVING AN ASSUMED BEARING CAPACITY OF 2000 PSF
3. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS ENCOUNTERED. DATA ON DRAWINGS, SPECFICATIONS, TEST BORINGS, AND GEOTECHNICAL REPORTS IF INCLUDED ARE TO ASSIST THE CONTRACTOR DURING BIDDING AND CONSTRUCTION. BORING DATA REPRESENTS THE CONDITIONS IN SPECIFIC LOCATIONS AT THE TIME OF THE OBSERVATIONS, AND ARE NOT NECCESARILY CORRECT FOR THE SITE AS A WHOLE.
4. IF SOIL ENHANCEMENT TECHNIQUES (GEOPIERS, INJECTIONS) ARE USED TO IMPROVE THE BEARING CAPACITY OF THE SOIL, OR IF GEOTECHNICAL TESTING AT THE FOOTING ELEVATION DETERMINES A HIGHER BEARING CAPACITY THAN 2000 PSF, YOU MAY CONTACT THE STRUCTURAL ENGINEER TO REVISE THE FOUNDATIONS BASED ON THE IMPROVED BEARING CAPACITY OF THE SOIL.
5. ALL EXTERIOR FOUNDATIONS SHALL BEAR ON APPROVED SUBGRADE AT A MINIMUM DEPTH OF 4'-0" BELOW ADJACENT EXTERIOR FINISH GRADE.
6. FOOTING ELEVATIONS SHOWN ON THE DRAWINGS REPRESENT ESTIMATED DEPTHS AND ARE NOT TO BE CONSTRUED AS LIMITING THE AMOUNT OF EXCAVATION REQUIRED TO REACH SUITABLE BEARING MATERIAL.
7. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS ADJACENT TO EXISTING STRUCTURES, STREETS, UTILITIES OR PROPERTY TO PREVENT HORIZONTAL OR VERTICAL MOVEMENT OF THE ADJACENT SOIL OR PROPERTY.
8. CONTRACTOR SHALL CONTROL SURFACE AND SUBSURFACE WATER TO INSURE THAT ALL FOUNDATION WORK IS DONE IN THE DRY.
9. DO NOT PLACE FOUNDATIONS ON FROZEN SUBGRADE. IF FROST OCCURS, CONTRACTOR SHALL REMOVE FROZEN SUBGRADE, PLACE COMPACTED FILL AND PLACE CONCRETE PRIOR TO NEW FROST PENETRATION.
10. PROTECT ALL EXPOSED CONCRETE FROM FROST PENETRATION UNTIL THE PROJECT IS COMPLETE.
11. BRACE FOUNDATION WALLS DURING BACKFILLING AND COMPACTION OPERATIONS. BRACING SHALL REMAIN IN PLACE UNTIL PERMANENT STRUCTURAL SUPPORT IS INSTALLED AND APPROVEDD BY THE ENGINEER.
12. BACKFILL WALLS EVENLY ON BOTH SIDES.

CONCRETE
1. CONCRETE SHALL HAVE A MINIMUM 28-DAY ULTIMATE COMPRESSIVE STRENGTH AS FOLLOWS:
   - SLABS-ON-GRADE 4,000 PSI
   - FOOTINGS AND FROST WALLS 3,000 PSI
   - EXTERIOR EXPOSED CONCRETE 4,000 PSI
2. CONCRETE TO BE EXPOSED TO THE WEATHER SHALL HAVE AIR-ENTRAINING ADMIXTURE AS REQUIRED TO PROVIDE 4-6% AIR ENTRAINMENT.
3. CONCRETE STRENGTH SHALL BE EVALUATED ACCORDING TO METHOD 1 OR METHOD 2 AS DESCRIBED IN ACI 301. THE RESULTS OF THESE ANALYSES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ANY WORK.
4. GROUT USED TO SET PLATES SHALL BE NON-SHRINK AND NON-METALLIC.
5. PROVIDE A MINIMUM OF 6" COMPACTED GRANULAR FILL UNDER ALL SLABS-ON-GRADE.
6. CONTRACTOR IS SOLELY RESPONSIBLE FOR SUPPORT AND POSITIONING OF ELEVATED FORMS AND METAL DECKING PRIOR TO PLACING AND SET OF CONCRETE. CONTRACTOR SHALL MAINTAIN THIS SUPPORT AND POSITION UNTIL CONCRETE IS SET.
7. CONTRACTOR SHALL USE SMOOTH FORMS FOR EXPOSED CONCRETE SURFACES. BOARD FORMS MAY BE USED FOR UNEXPOSED CONCRETE SURFACES. EARTH FORMS ARE FORBIDDEN.
8. WHEN RELEASE AGENTS ARE USED ON FORMWORK, SPRAY FORMWORK AWAY FROM REBAR. REBAR SPRAYED WITH RELEASE AGENT MUST BE CLEANED PRIOR TO CONCRETE PLACEMENT.

REINFORCEMENT
1. REINFORCEMENT FABRICATOR SHALL PROVIDE AND SCHEDULE ON SHOP DRAWINGS ALL REQUIRED REINFORCING STEEL AND THE NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN PLACE AT THE CORRECT LOCATIONS.
2. CLEARANCES FOR REINFORCEMENT: CONCRETE PLACED DIRECTLY ON EARTH (FOOTINGS, SLABS, ETC.) 3" FROM BOTTOM; ALL OTHER CONCRETE PROVIDE 2" CLEAR TO REINFORCING, UNLESS SHOWN OTHERWISE ON DRAWINGS.
3. WHERE REINFORCEMENT IS REQUIRED IN SECTIONS, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER SECTION APPLIES.
4. WELDED WIRE FABRIC SHALL LAP A MINIMUM OF 6" AND BE TIED TOGETHER.

STRUCTURAL WOOD CONSTRUCTION
1. STRUCTURAL WOOD SHALL BE VISUALLY GRADED IN ACCORDANCE WITH ASTM D1990-00E1 OR ASTM D245. WOOD SHALL BE IDENTIFIED BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY A RECOGNIZED INSPECTION AGENCY.
2. ALL WOOD SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 15% PRIOR TO INSTALLATION.
3. NEW WOOD SHALL HAVE ALLOWABLE UNIT STRESSES GREATER THAN OR EQUAL TO SPF 1 / 2
4. ALL WOOD PERMANENTLY EXPOSED TO THE WEATHER, IN CONTACT WITH EXTERIOR CONCRETE, OR IN CONTACT WITH THE GROUND SHALL HAVE A PRESERVATIVE TREATMENT EQUAL TO 0.4 P.C.F. RETENTION OF PRESSURE INJECTED PRESERVATIVE.
5. DO NOT EMBED WOOD MEMBERS IN CONCRETE.
6. PLYWOOD (OSB) SHALL BE LAID WITH FACE GRAIN PERPENDICULAR TO SUPPORTS, STAGGER ALL JOINTS.
7. PLYWOOD (OSB) SHALL BE CAPABLE OF SUPPORTING DESIGN LOADS AT REQUIRED SUPPORT SPACING AND BEAR APPROPRIATE GRADING STAMP FROM AMERICAN PLYWOOD ASSOCIATION.
8. USE COMMON WIRE NAILS UNLESS SPECIFICALLY NOTED OTHERWISE.
9. ALL BOLTS AND LAG SCREWS SHALL CONFORM TO ASTM A307. USE STEEL WASHER BETWEEN HEAD OF BOLT OR LAG SCREW AND WOOD. USE STEEL WASHER BETWEEN NUT AND WOOD.
10. ALL FASTENERS USED IN PRESERVATIVE TREATED WOOD SHALL BE GALVANIZED, COATED, OR STAINLESS STEEL. THIS INCLUDES SHEARWALL/SHEATHING NAILING AT BOTTOM PLATE.
11. JOIST HANGER FASTENERS MUST BE AS SUPPLIED AND/OR REQUIRED BY THE JOIST HANGER MANUFACTURER.
12. LAMINATED VENEER LUMBER (LVL) BEAMS SHALL CONFORM TO TRUS JOIST CORPORATION MICROLLAM 2.0E LVL SPECIFICATIONS, OR EQUAL.

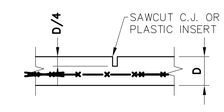
PRE-FABRICATED WOOD TRUSSES
1. WOOD TRUSSES SHALL CONFORM TO THE LATEST EDITION OF THE "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES", PUBLISHED BY THE TRUSS PLATE INSTITUTE.
2. WOOD TRUSS FABRICATOR SHALL SUBMIT CALCULATIONS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO INSTALLATION. THE CALCULATIONS MUST BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER.
3. WOOD TRUSSES MUST BE ERECTED AND BRACED ACCORDING TO THE PROCEDURES DESCRIBED IN "BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS", PUBLISHED BY THE TRUSS PLATE INSTITUTE.
4. WOOD TRUSSES SHALL BE DESIGNED TO SUPPORT THE FOLLOWING LOADS UNLESS INDICATED OTHERWISE ON CONTRACT DRAWINGS:
   - ROOF TRUSSES TOP CHORDLIVE LOAD 30 40 PSF
   - DEAD LOAD 10 PSF
   - BTM CHORDDEAD LOAD 10 PSF
5. WOOD TRUSSES SHALL BE SUPPORTED BY DIRECT END BEARING ON WALLS, BEAMS, COLUMNS OR APPROPRIATE STEEL HANGERS.

SHEAR WALLS
1. ALL EXTERIOR WALLS ARE TO BE CONSTRUCTED AS SHEAR WALLS.
2. CONSTRUCTION SHALL CONSIST OF 7/16" OSB (MIN) ON 2x6 WOOD STUDS @ 16" (WALL TYPE 2 ARCH)
3. MINIMUM NAILING: 8d NAILS @ 6" OC EDGES 8d NAILS @ 12" OC FIELD. (WALL TYPE 2 ARCH)
4. NAIL/SCREW INTERIOR GYPBOARD @ 6" OC AT ALL EXTERIOR WALLS (WALL TYPE 1 ARCH)
5. ½" DIA ANCHOR BOLTS INTO WALL OR SLAB, 48" OC. 1 AB AT EA END OF WALL.

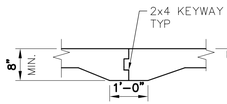
WOOD HEADER AND BEAM SCHEDULE

MARK	SIZE	QTY	TYPE	BRG	JAMB STUDS	KING STUDS	NOTES
H1	2x10	2	SAWN	1 1/2"	1	1	
H2	2x12	3	SAWN	3"	2	2	

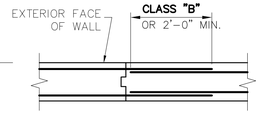
- SAWN HEADERS SHALL BE DOUGLAS FIR-LARCH (DLF) #1 GRADE
- EXTERIOR STUDS SHALL BE SPRUCE – PINE – FIR (SPF) #1/#2
- INTERIOR BEARING STUDS SHALL BE DOUGLAS FIR #1



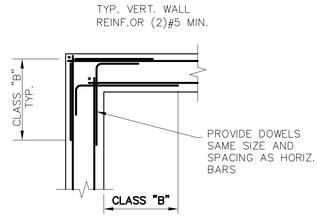
CONTROL JOINT
SCALE: ½" = 1'-0"



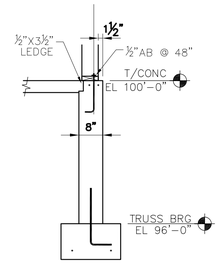
CONST JOINT



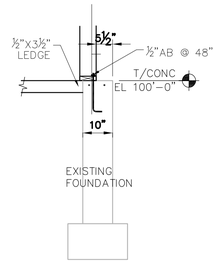
WALL JOINT



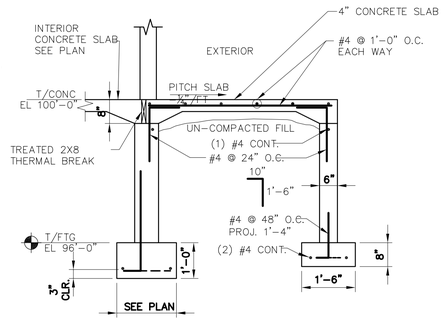
WALL CORNER



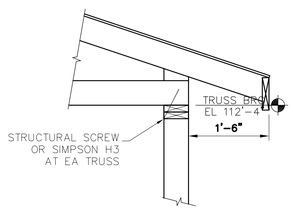
1 S1 SECTION
SCALE: ½" = 1'-0"
NEW FROST WALL



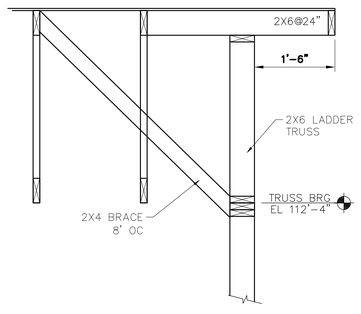
2 S1 SECTION
SCALE: ½" = 1'-0"
EXISTING FROST WALL



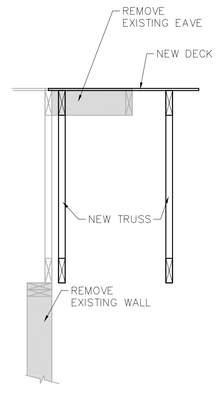
3 S101 STOOP SECTION
TYP @ DOORS



4 S1 SECTION
SCALE: ¾" = 1'-0"



5 S1 SECTION
SCALE: ¾" = 1'-0"



6 S1 SECTION
SCALE: ¾" = 1'-0"

HINDU TEMPLE OF NORTHEAST WISCONSIN
911 DELANGLADE STREET
KAUKAUNA, WI 54130

STRUCTURAL NOTES AND DETAILS

DATE	REVISED	JOB NO.
11/07/2022		2222-030
		DRAWN BY: DDK

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- PRELIMINARY
- FINAL REVIEW
- BID DOCUMENT

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Green Bay, Wisconsin 54301
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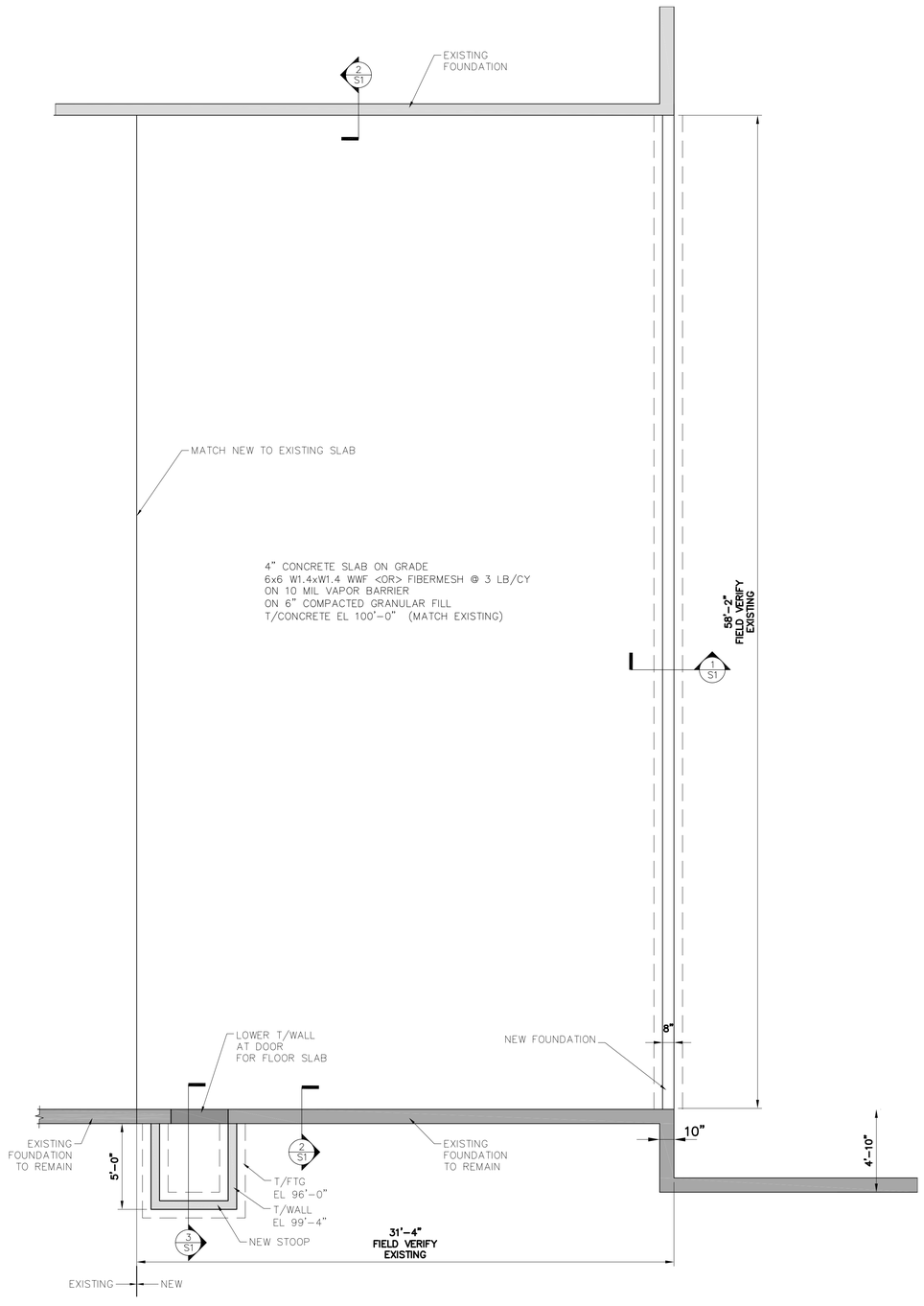
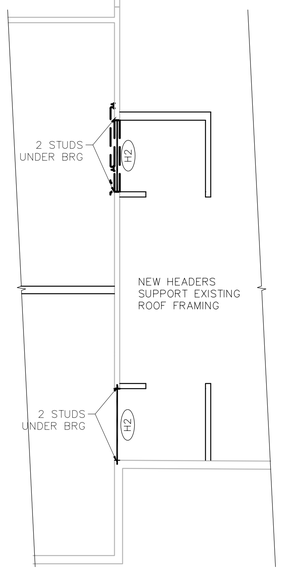
S1



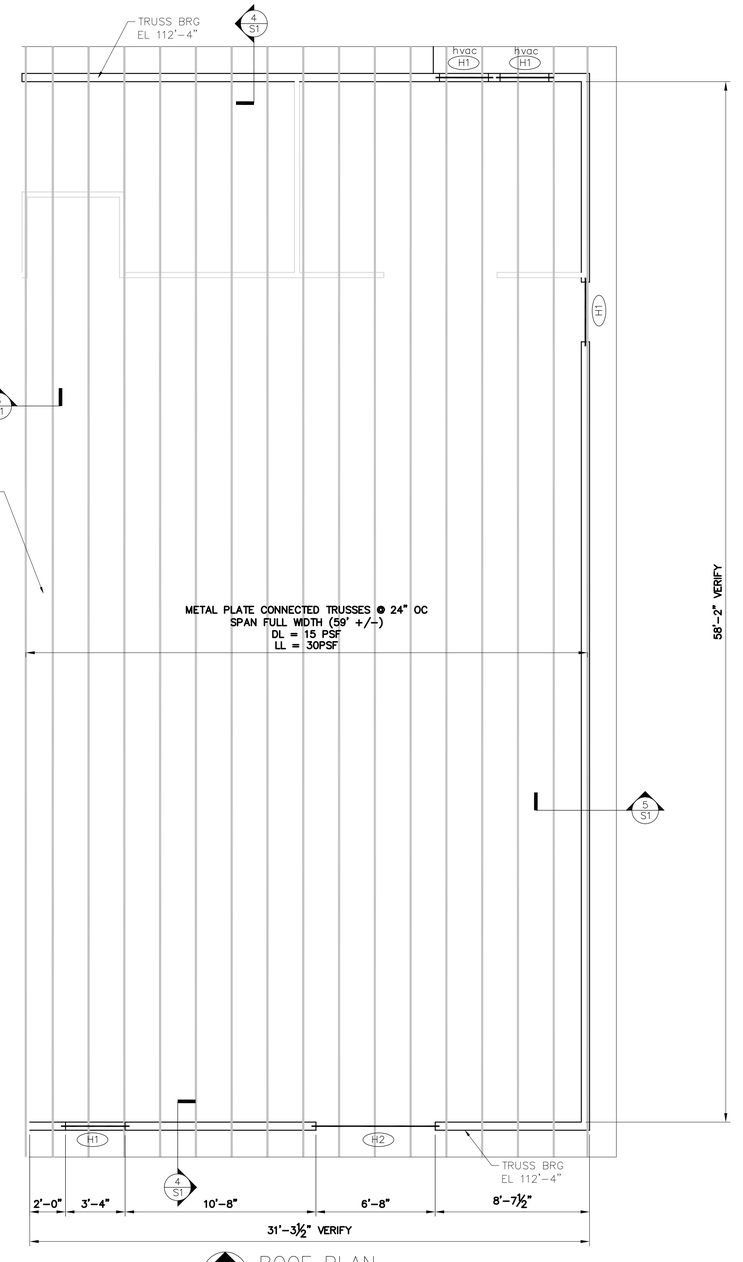
NORTH FOUNDATION PLAN

SCALE: ⅛" = 1'-0"



NORTH EXISTING PLAN

SCALE: ¼" = 1'-0"



NORTH ROOF PLAN

SCALE: ¼" = 1'-0"

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STRUCTRAL PLANS

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11/10/2022 1:56:41 PM

EXISTING EF-2 600 CFM

EXISTING KITCHEN GREASE HOOD (TYPE I) 129"L x 48"W.

EXISTING HVAC UNIT ON CONC PAD

EXISTING HVAC UNIT OA INTAKE

EXIST SUPPLY

EXIST RETURN

EXISTING GAS SERVICE 2 PSIG

EXISTING MUA-1 1935 CFM 216MBH HEAT 24"HIGH STAND

EXISTING CONDENSING UNIT CU-1 4 TONS

EXISTING CONDENSING UNIT CU-2 4 TONS

EXISTING CONDENSING UNIT CU-3 5 TONS

OUTSIDE AIR INTAKES: BALANCE TO 400 CFM EACH FOR F-1 AND F-2

F-1 EXISTING NAT. GAS FURNACE 80,000 BTU/HR, 1400 CFM @ 0.7"ESP

F-2 EXISTING NAT. GAS FURNACE 80,000 BTU/HR, 1400 CFM @ 0.7"ESP

F-3 EXISTING NAT. GAS FURNACE 100,000 BTU/HR, 1750 CFM @ 0.7"ESP

200 CFM

6Ø

8Ø

EXIST 18x10

EXIST 24x10

EXIST 22x10

22x10

75 CFM

ALTAR

MINIMUM 6 ACH SUPPLY AIR

170 CFM

8Ø 8Ø

TEMPLE HALL

EXISTING 18X18 TO EF-1 ON ROOF

20x14

EXISTING 40x12

EXISTING 28x12

EXISTING 30x12

10Ø

MULTIPURPOSE HALL

MECH. / JAN.

SUPPLIES

VEST.

CORRIDOR

ROOM #

TEMPLE OFFICE

25 CFM

50 CFM

MINIMUM 6 ACH SUPPLY AIR

155 CFM

EXISTING RETURN GRILLE

EXISTING 10Ø EXHAUST DUCT RISER INTO ATTIC

BOARD ROOM

SUPPLY DUCT FROM FURNACE F-3

RECEPTION

LOBBY

MENS

WOMENS

EWC

SHOES

CORRIDOR

VEST.

DEMO KEY NOTES:

1. REMOVE CEILING EXHUAST FAN AND ATTACHED FLEX DUCT COMPLETE.
2. REMOVE SHEET METAL BOX THAT IS CONNECTED TO ALL FLEX EXHAUST DUCTS COMPLETE.
3. CUT 10"Ø FLEX DUCT AT THE ATTIC LINE. THIS 10"Ø DUCT IS CONNECTED TO A ROOF CAP. PROVIDE 4'X4' 5/8" SHEET ROCK AT THE OPENING IN THE UNDERSIDE OF ATTIC AND ABANDON THE REMAINING FLEX DUCT IN THE ATTIC.
4. REMOVE & SALVAGE (FOR REUSE) EXISTING 24x24x8Ø LAY-IN SUPPLY DIFFUSER AND INSULATED FLEX DUCT RUNOUT.
5. REMOVE & SALVAGE (FOR REUSE) EXISTING 24x12x10Ø LAY-IN SUPPLY DIFFUSER AND INSULATED FLEX DUCT RUNOUT.
6. REMOVE & SALVAGE (FOR REUSE) 24x24 LAY-IN GRILLE IN CEILING.
7. REMOVE & SALVAGE (FOR REUSE) 24x24 LAY-IN RETURN AIR GRILLE. REMOVE BRANCH DUCT CONNECTION TO RETURN DUCT MAIN. PATCH RETURN DUCT MAIN.

0' 2' 4' 6'

HVAC DEMO PLAN

SCALE: 1/4"=1'-0" ON 36"x24" SHEET

TRUE NORTH

PLAN NORTH

ANDHOLE ENGINEERING LLC
www.andhole.com
(920) 205-0042 tilak@andhole.com

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Green Bay, Wisconsin 54301
www.aglgb.com
920-432-1232 FAX 920-432-7283

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KEY NOTES: (X)

NEW OR RELOCATED ITEMS SHOWN WITH HEAVY LINETYPE

1. SALVAGED-RELOCATED 24x24x8Ø LAY-IN SUPPLY DIFFUSER.
2. SALVAGED-RELOCATED 24x24x10Ø LAY-IN SUPPLY DIFFUSER. REBALANCE THIS SYSTEM.
3. 24x24x10Ø LAY-IN SUPPLY DIFFUSER. TITUS TMS OR APPROVED EQUAL. BALANCE THIS SYSTEM.
4. SALVAGED-RELOCATED 24x24 LAY-IN RETURN AIR GRILLE. DUCT TO OVERHEAD RETURN DUCT MAIN.
5. SALVAGED-RELOCATED UNDUCTED RETURN AIR GRILLE.
6. RETURN AIR GRILLE R-1, PERFORATED OR EGG CRATE FACE, 24x24 LAY-IN, 22x22 INLET. PROVIDE 22x22 PLENUM ON TOP OF GRILLE AND DUCT TO RETURN AIR MAIN.
7. UNDUCTED RETURN AIR GRILLE R-1, PERFORATED OR EGG CRATE FACE, 24x24 LAY-IN, 22x22 INLET.
8. CEILING EXHAUST FAN. HUNG FROM STRUCTURE ABOVE WITH EXHAUST GRILLE IN CEILING. INCLUDE TRANSITION ON FAN DISCHARGE TO 8"Ø. CONNECT WITH 5 FEET LONG 8"Ø FLEXIBLE DUCT TO 8"Ø RIGID DUCT FROM WALL CAP.
9. 8"Ø WALL CAP WITH BACKDRAFT DAMPER, THRU EIFS WALL SEGMENT UNDER SOFFIT. SEE ARCHITECTURAL DRAWINGS FOR WALL SECTIONS. PAINT WALL CAP TO MATCH EXISTING EIFS COLOR, SO THE CAP CAN BLEND IN.
10. FLEX DUCT CONNECTION IN SUPPLY AND RETURN DUCTS.
11. SUPPORT EXTERIOR DUCTWORK FROM CONCRETE PAD BELOW

SEE SHEET H1 FOR EXISTING HVAC WEST OF HERE

NOTE: THIS BUILDING HAS LAY-IN CEILINGS THROUGHOUT, ALLOWING FOR EASY ACCESS ABOVE CEILING

NOTE: VERIFY ALL EXISTING DATA, PIPE SIZES, DIMENSIONS ON SITE BEFORE FABRICATION AND INSTALLATION.
ALL DUCT DIMENSIONS ARE AIR FLOW DIMENSIONS.

EXISTING BUILDING | BUILDING ADDITION

HVAC PLAN

SCALE: 1/4"=1'-0" ON 36"x24" SHEET

0' 2' 4' 6'

TRUE NORTH | PLAN NORTH

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H2

EQUIPMENT SCHEDULE:

PACKAGED HVAC UNIT HVAC-2:
BASIS OF DESIGN: CARRIER MODEL 48FCEM09C2A5-0A0A0. SUBJECT TO MEETING THE SPECIFICATION REQUIREMENTS BELOW, THE FOLLOWING MANUFACTURER'S PRODUCTS MAY BE CONSIDERED AS APPROVED EQUAL: TRANE, DAIKIN, OR ENGINEER APPROVED EQUAL.

PACKAGED OUTDOOR ROOF MOUNTED UNIT WITH INDIRECT GAS FIRED HEAT, DX COOLING. SUPPLY AIR 3,400 CFM @ 1.0 INCHES W.G. ESP. COOLING PERFORMANCE 101.8 MBH TOTAL, 78.96 MBH SENSIBLE, COOLING COIL EAT 80F DB/67F WB, COOLING COIL LAT 58.5 F DB. HEATING PERFORMANCE EAT=70F LAT=110.3F, MINIMUM HEATING 180 MBH INPUT GAS 2-STAGE BURNER. 230V/3PH/60HZ, MCA=41, MOP=50A. INCLUDE INTEGRAL DISCONNECT SWITCH. 2 COMPRESSORS, AND 2 CONDENSER FANS. 2" THICK PLEATED MEDIA FILTERS - MERV 8.
ARI EER = 11.2 IEER = 15.0
PROVIDE UNIT WITH DRY BULB ECONOMIZER (CRECOMZR085A00), AND BAROMETRIC RELIEF. INCLUDE ECONOMIZER FAULT DETECTION AND DIAGNOSTICS, SMOKE DETECTOR, CO2 SENSOR (CRCBDIOX005A00)
UNIT TO HAVE HORIZONTAL DUCT CONNECTIONS. INCLUDE 24" HIGH ROOF CURB TO BE USED AS STAND AS NOTED ON PLAN.

UNIT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY SUCH AS ETL, UL, CSA, ETC. INCLUDE ONSITE CHECKOUT AND STARTUP BY FACTORY AUTHORIZED SERVICE PERSONNEL. SUBMIT REPORT FOR INCLUSION IN O&M MANUALS. INCLUDE MINIMUM 1 YEAR WARRANTY. VERIFY GAS PRESSURE ON SITE AND FURNISH ADDITIONAL GAS PRESSURE REGULATORS IF NEEDED. INCLUDE REMOTE SPACE/WALL THERMOSTAT (PROGRAMMABLE AUTOMATIC HEATING-COOLING CHANGEOVER) FOR CONNECTION TO HVAC-2. INCLUDE TRANSPARENT THERMOSTAT GUARD/LOCKING COVER TO PREVENT UNAUTHORIZED ADJUSTMENT OF THERMOSTAT.

CEILING EXHAUST FANS EF-11 AND EF-12:
BASIS OF DESIGN: GREENHECK MODEL SP-A410. SUBJECT TO MEETING THE SPECIFICATION REQUIREMENTS BELOW, THE FOLLOWING MANUFACTURER'S PRODUCTS MAY BE CONSIDERED AS APPROVED EQUAL: COOK, CARNES, ACME, PENN, OR ENGINEER APPROVED EQUAL.

CEILING EXHAUST FAN WITH SIDE DISCHARGE, GALVANIZED STEEL /ALUMINUM CONSTRUCTION, DIRECT DRIVE, FAN SPEED CONTROLLER FOR USE DURING BALANCING, RATED FOR 300 CFM @ 0.2 INCHES S.P., 121 WATTS ODP MOTOR, 115V/1PH/60HZ, INLET SOUND 1.5 SONES, ALUMINUM GRILLE (WHITE) FOR AIR INTAKE, NEOPRENE HANGING ISOLATORS AND BRACKETS. UL-507 LISTED. INCLUDE 8" ROUND EXHAUST WALL CAP/HOOD WITH GRAVITY BACKDRAFT DAMPER AND BIRD SCREEN.

HVAC CONTROLS:

TO BE STAND ALONE, ELECTRIC/ELECTRONIC-DDC AS REQUIRED FOR TROUBLE FREE OPERATION. BAS IS NOT REQUIRED. HVAC CONTROLS ARE PART OF HVAC SCOPE OF WORK.

BOTH HVAC-1 AND HVAC-2 SHALL RUN TO MAINTAIN SPACE TEMPERATURE AT THERMOSTAT.

IN ECONOMIZER MODE THE OA AND RA DAMPERS TO MODULATE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE.

HVAC-2 MINIMUM OA TO VARY FROM LOW TO HIGH AS DESCRIBED IN TAB SCOPE, BASED ON UNIT MOUNTED CO2 SENSORS.

EF-11 AND EF-12 RUN MANUALLY FROM COMBINATION LIGHT AND FAN SWITCH ON WALL. EF-11 SHALL ALSO RUN WHENEVER EXISTING FURNACE F-3 IS RUNNING. SO THIS IN PARALLEL TO WALL SWITCH MENTIONED ABOVE.

DUCTWORK NOTES:

1. ALL DUCTWORK SHALL COMPLY WITH SMACNA 1995 STANDARD "HVAC DUCT CONSTRUCTION STANDARD-METAL & FLEXIBLE".

2. DUCTWORK PRESSURE CLASS: 2 INCHES.

3. DUCTWORK MATERIAL SHALL BE AS FOLLOWS:

   GALVANIZED SHEET STEEL: COMPLY WITH ASTM A 653.

   A. GALVANIZED COATING DESIGNATION: **G90**.

   B. FINISHES FOR SURFACES EXPOSED TO VIEW: MILL PHOSPHATIZED.

4. ALL DUCTWORK DIMENSIONS ARE CLEAR AIR FLOW DIMENSIONS.

5. ALL NEW SUPPLY, RETURN, AND EXHAUST DUCTS SHALL BE SEALED TO EXCEED SMACNA SEAL CLASS A. SEALANT SHALL BE 3M 800, 3M 900, H.B. FULLER/FOSTER, HARDCAST, HARDCAST PEAL & SEAL, LOCKFORMER COLD SEALANT, MON-ECO INDUSTRIES, UNITED SHEET METAL, OR APPROVED EQUAL. SILICONE SEALANTS ARE NOT ALLOWED. INSTALL SEALANTS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, PAYING SPECIAL ATTENTION TO TEMPERATURE LIMITATIONS. ALLOW SEALANT TO FULLY CURE BEFORE PRESSURE TESTING OF DUCTWORK, OR BEFORE STARTUP OF AIR HANDLING SYSTEMS.

6. USE LONG RADIUS ELBOWS WHERE FEASIBLE. WHERE LONG RADIUS ELBOWS ARE NOT POSSIBLE, PROVIDE MITERED ELBOWS WITH TURNING VANES. CONSTRUCT TURNING VANES AND RUNNERS FOR SQUARE ELBOWS IN ACCORDANCE WITH SMACNA FIG. 2-3 AND FIG. 2-4 EXCEPT USE ONLY AIRFOIL TYPE VANES. CONSTRUCT TURNING VANES FOR SHORT RADIUS ELBOWS AND ELBOWS WHERE ONE DIMENSION CHANGES IN THE TURN IN ACCORDANCE WITH SMACNA FIG. 2-5 AND FIG. 2-6.

7. PROVIDE ACCESS DOORS IN DUCTWORK AT TURNING VANES, AND OTHER ITEMS REQUIRING ACCESS FOR SERVICE. ACCESS DOORS SHALL BE 2" THICK DOUBLE WALL CONSTRUCTION, WITH CONTINUOUS PIANO HINGE, GASKETED, AND LEAK PROOF. WHERE ACCESS DOOR SIZES ARE NOT INDICATED, PROVIDE A MINIMUM SIZE OF 24x16, UNLESS THE DUCT DIMENSION IS SMALLER THAN 18 IN WHICH CASE THE WIDTH OF DOOR SHALL BE 2" SMALLER THAN THE DUCT DIMENSION WHERE THE ACCESS DOOR IS LOCATED. CAM LOCKS MAY BE USED IN LIEU OF PIANO HINGES IF THE DOOR SWING IS NOT POSSIBLE AT A PARTICULAR LOCATION.

8. PROVIDE VOLUME DAMPERS IN DUCT FOR BALANCING OF ALL DUCTED GRILLES & DIFFUSERS. WHERE DAMPERS ARE NOT POSSIBLE AT TAKEOFF OR EASILY ACCESSIBLE SUCH AS ABOVE DRYWALL CEILINGS, PROVIDE DAMPER AT GRILLES & DIFFUSERS ACCESSIBLE FROM FACE OF GRILLES & DIFFUSERS.

9. DUCTLINER SHALL BE CERTAINTEED TOUGHGARD OR APPROVED EQUAL. WHERE FIBERS ARE EXPOSED BECAUSE OF CUTS OR EDGES, PROVIDE NOSING OR SPRAY ADHESIVE MASTIC TO ELIMINATE THE POSSIBILITY OF FIBERS COMING LOOSE. FOR THIS PROJECT DUCT LINER SHALL USED ONLY FOR RETURN AIR TRANSFER BOOTS/DUCTS ON RETURN AIR GRILLES IN AREAS WITH CEILINGS.

10. DUCT INSULATION: INSULATION (DENSITY 1.5 POUNDS PER CUBIC FOOT) WITH FSK & VAPOR BARRIER. SEAL ALL JOINTS.

    SUPPLY AIR DUCTS ABOVE CEILING = MINIMUM R6. USE 2" THICK DUCTWRAP OR 1-1/2" THICK RIGID. EXISTING DUCTS ARE INSULATED ALREADY.

    RETURN AIR DUCTS ABOVE CEILING = NONE

    EXHAUST AIR DUCTS WITHIN 3 FEET OF OUTSIDE WALL OR ROOF PENETRATION = 2" THICK R8 RIGID INSULATION

    EXTERIOR SUPPLY AND RETURN AIR DUCTS = MINIMUM R12. USE 3" THICK EXTRUDED POLYSTYRENE INSULATION WITH VAPOR BARRIER. VENTURE CLAD 1577CW JACKETING SYSTEM WITH WEATHERPROOF SEALING.

BALANCING/TAB SCOPE OF WORK:

BALANCING SCOPE OF WORK CONSISTS OF FOLLOWING:

1. ALL SUPPLY AIR DIFFUSERS SERVING EXISTING HVAC-1 UNIT AND NEW HVAC-2 UNIT.

2. SUPPLY, RETURN, AND OUTSIDE AIR AT HVAC-1 AND HVAC-2 UNITS.

3. SET VARIABLE MINIMUM OA AT HVAC-2 UNIT FROM 300 CFM TO 720 CFM FOR DCV USING CO2 SENSORS IN UNIT. SET MINIMUM OA AT EXISTING HVAC-1 UNIT TO 720 CFM.

4. SET EXHAUST FANS EF-11 AND EF-12 FOR 300 CFM EACH USING FAN SPEED CONTROL DIAL.

HVAC GENERAL NOTES:

APPLIES TO ALL MECHANICAL /HVAC DRAWINGS

1. DRAWINGS INDICATE GENERAL EXTENT OF WORK. PROVIDE ALL SYSTEMS COMPLETE, PER INTENDED OPERATION, INCLUDING ALL NECESSARY OFFSETS, FITTINGS ETC., WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS. CONTRACTOR SHALL REVIEW ALL BUILDING DRAWINGS BEFORE BIDDING TO DETERMINE THE FULL EXTENT AND CHARACTER OF WORK.

2. ALL WORK SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SPECIFICATIONS AND PER THE APPLICABLE CODES. APPLICABLE CODES INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

   2015 VERSION OF INTERNATIONAL CODES WITH WISCONSIN AMENDMENTS.

   IF THERE IS A CONFLICT BETWEEN CODES AND THESE DRAWINGS AND SPECIFICATIONS, THE MORE EXPENSIVE REQUIREMENT SHALL BE USED FOR BIDDING, UNLESS CLARIFICATION IS OBTAINED FROM ENGINEER, AND AN ADDENDUM IS ISSUED.

3. HVAC CONTRACTOR SHALL OBTAIN AND PAY FOR ALL APPLICABLE CONSTRUCTION PERMITS REQUIRED.

4. SCOPE OF WORK INCLUDES ALL MECHANICAL-HVAC EQUIPMENT, DUCTWORK, GAS PIPING, FLUE GAS VENTS, REFRIGERANT & CONDENSATE DRAIN PIPING, HVAC CONTROLS, ETC. UNLESS IDENTIFIED OTHERWISE. OWNER WILL FURNISH INFORMATION ON OWNER PURCHASED EQUIPMENT.

5. COORDINATE THE INSTALLATION OF HVAC WORK WITH OTHER TRADES.

6. PROVIDE MISCELLANEOUS STEEL AS REQUIRED FOR PROPER SUPPORT OF ALL MECHANICAL SYSTEMS INCLUDING ALL OUTSIDE EQUIPMENT, PIPING, AND DUCTWORK. CONTRACTOR SHALL PROVIDE SUPPORT STEEL SPANNING TRUSS TO TRUSS TO SUPPORT HVAC WORK.

7. PROVIDE PRODUCT DATA SUBMITTALS FOR ALL EQUIPMENT, TO ENGINEER FOR REVIEW PRIOR TO ORDERING. OBTAIN PRIOR ENGINEER APPROVAL TO PROPOSE PRODUCTS BY EQUIPMENT MANUFACTURERS NOT SPECIFICALLY LISTED ON DRAWINGS.

8. CONTRACTOR SHALL PERFORM TESTING, ADJUSTING AND BALANCING (TAB). BALANCE ALL AIR FLOWS TO NUMBERS INDICATED ON DRAWINGS. SUBMIT AT LEAST 1 COPY OF BALANCING REPORT TO FOR ENGINEER REVIEW WITHIN A WEEK OF BALANCING.

9. PROVIDE 2 COPIES OF O&M MANUALS TO OWNER AT THE END OF THE PROJECT DURING OWNER TRAINING. O&M MANUALS SHALL INCLUDE SHOP DRAWINGS, EQUIPMENT TEST & STARTUP REPORTS, BALANCING REPORTS, AND O&M MANUALS.

10. TRAIN OWNER ON PROPER OPERATION AND MAINTENANCE OF ALL SYSTEMS INSTALLED.

11. PROVIDE RED-LINED RECORD DRAWINGS AT PROJECT COMPLETION.

NATURAL GAS PIPING:

1. 2" AND SMALLER: ASTM A53, TYPE E OR S, STANDARD WEIGHT (SCHEDULE 40) BLACK STEEL PIPE WITH ASTM A197/ANSI B16.3 CLASS 150 BLACK MALLEABLE IRON THREADED FITTINGS OR ASTM A234 GRADE WPB/ANSI B16.9 STANDARD WEIGHT, SEAMLESS, CARBON STEEL WELD FITTINGS.

2. UNIONS 2" AND SMALLER: ASTM A197/ANSI B16.3 MALLEABLE IRON UNIONS WITH BRASS SEATS. USE BLACK MALLEABLE IRON ON BLACK STEEL PIPING AND GALVANIZED MALLEABLE IRON ON GALVANIZED STEEL PIPING. USE UNIONS OF A PRESSURE CLASS EQUAL TO OR HIGHER THAN THAT SPECIFIED FOR THE FITTINGS OF THE RESPECTIVE PIPING SERVICE BUT NOT LESS THAN 250 PSI.

3. USE A TEFLON BASED THREAD LUBRICANT OR TEFLON TAPE WHEN MAKING JOINTS; NO HARD SETTING PIPE THREAD CEMENT OR CAULKING WILL BE ALLOWED.

4. PITCH HORIZONTAL PIPING DOWN 1" IN 60 FEET IN THE DIRECTION OF FLOW. INSTALL A 4" MINIMUM DEPTH DIRT LEG AT THE BOTTOM OF EACH VERTICAL RUN AND AT EACH APPLIANCE. WHEN INSTALLING MAINS AND BRANCHES, CAP GAS TIGHT EACH TEE OR PIPE END WHICH WILL NOT BE IMMEDIATELY EXTENDED. ALL BRANCH CONNECTIONS TO THE MAIN SHALL BE FROM THE TOP OR SIDE OF THE MAIN. INSTALL A SHUT OFF VALVE AT EACH APPLIANCE.

5. PIPE SUPPORTS PER CODE.

6. SHUT OFF VALVES. 2" AND SMALLER: BALL VALVE, BRONZE BODY, THREADED ENDS, CHROME-PLATED BRONZE OR STAINLESS STEEL BALL, FULL OR CONVENTIONAL PORT, TEFLON SEAT, BLOWOUT-PROOF STEM, TWO-PIECE CONSTRUCTION, SUITABLE FOR 150 PSIG WORKING PRESSURE, U.L. LISTED FOR USE AS GAS SHUT-OFF.

7. PROVIDE GAS PRESSURE REGULATOR REQUIRED. GAS PRESSURE ON SITE IS 2 PSIG. CONTRACTOR SHALL VERIFY GAS PRESSURE WITH UTILITY.

8. PAINT NEW GAS PIPING WITH ZINC RICH PAINT TO PREVENT CORROSION.

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