

1

GRADING PLAN - PHASE I

1" = 30'-0"

0'7.5'15'30'

NORTH

DIMENSION

IV

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FRIENDS OF
AZTALAN STATE
PARK: VISITOR
CENTER
PRELIMINARY
DESIGN

AZTALAN, WI

DATE OF ISSUE: 05/21/2015

REVISIONS:		
1	1	Date 1

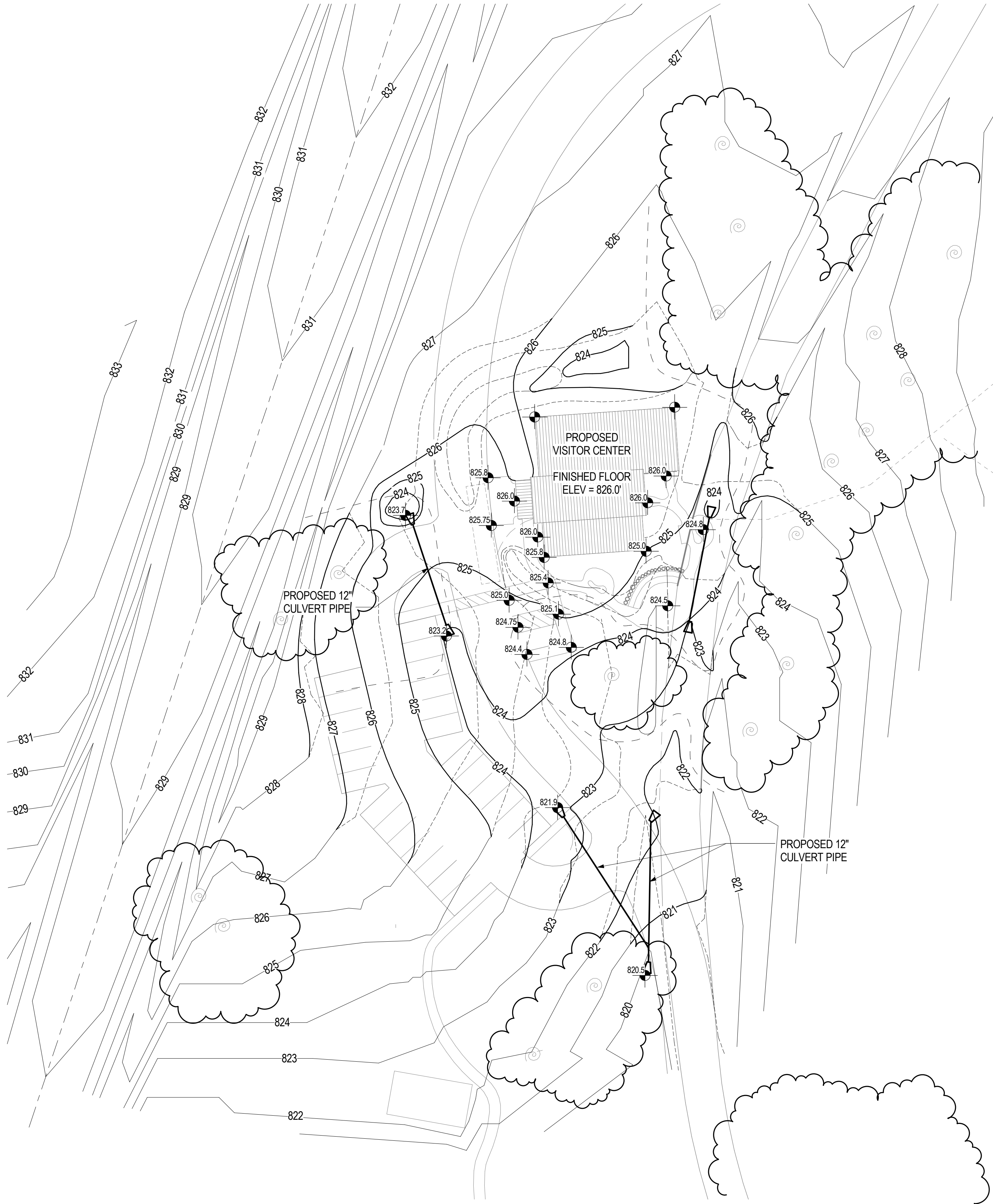
PROJECT # 14098

GRADING PLAN -
PHASE I

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1 GRADING PLAN - PHASE II
1" = 30'-0"

0' 7.5' 15' 30' NORTH

**FRIENDS OF
AZTALAN STATE
PARK: VISITOR
CENTER
PRELIMINARY
DESIGN**

AZTALAN, WI

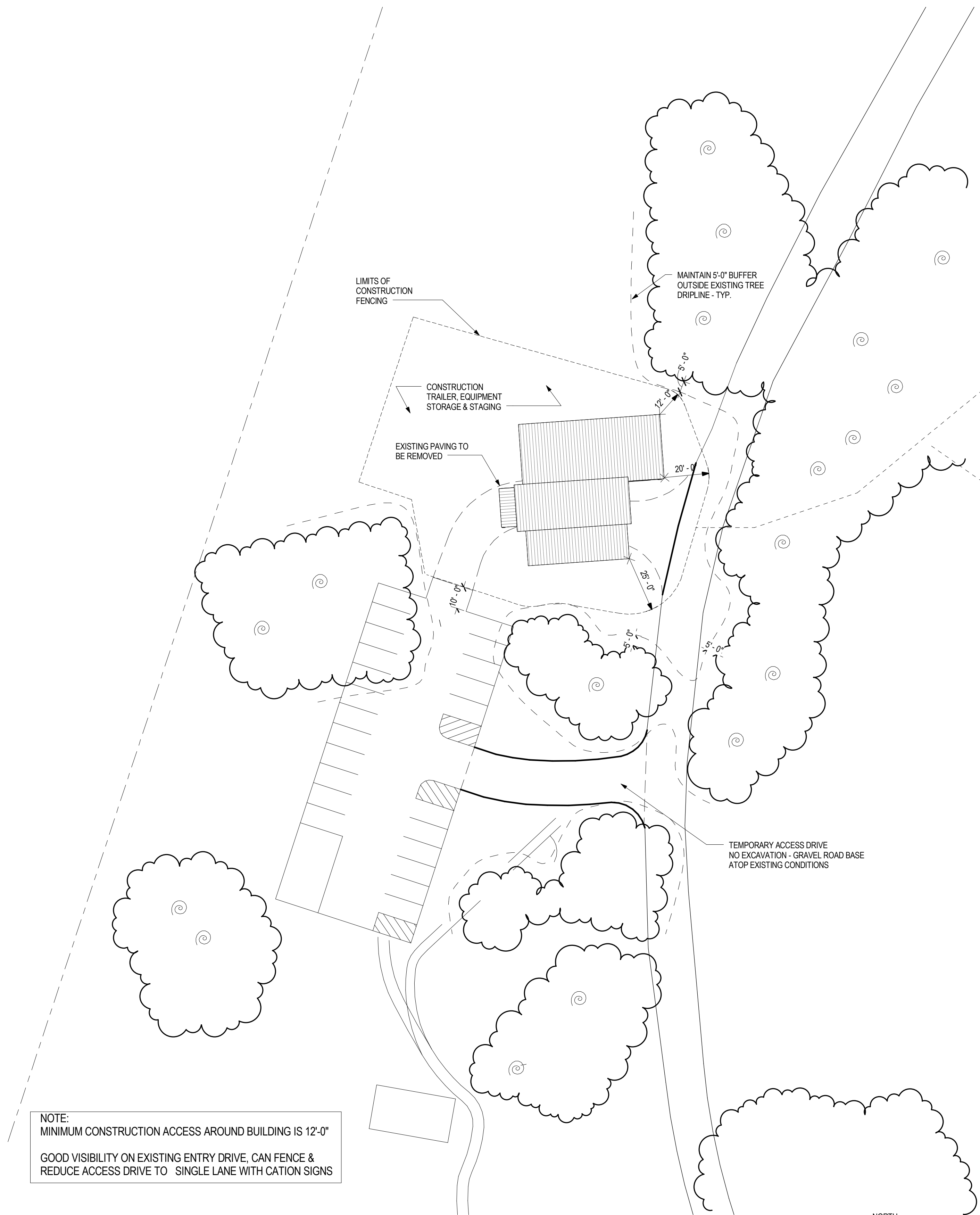
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**GRADING PLAN -
PHASE II**

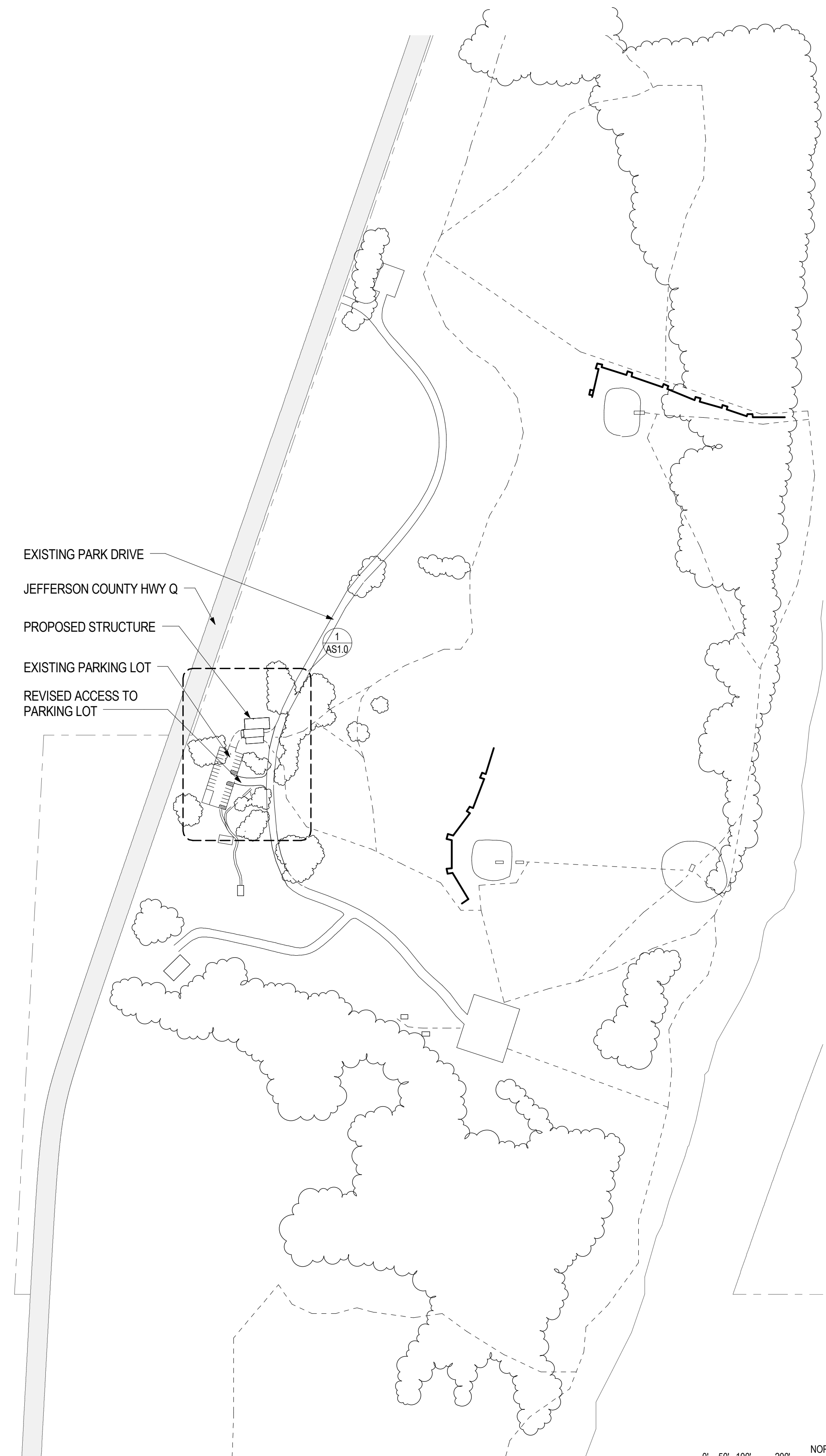
C201



1 SITE PLAN ENLARGED - PHASE I
1" = 30'-0"

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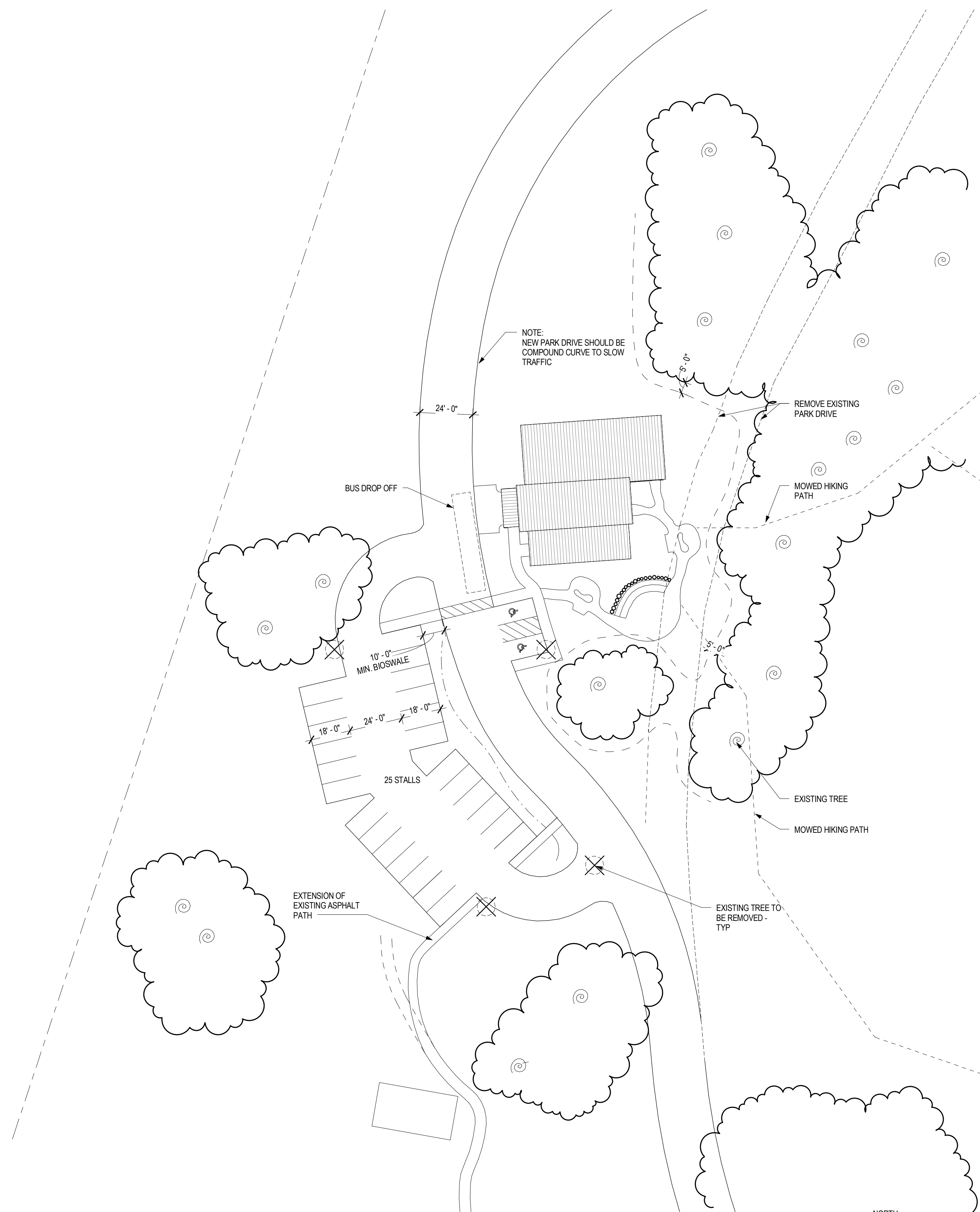


2 WHOLE SITE - PHASE I
1" = 200'-0"

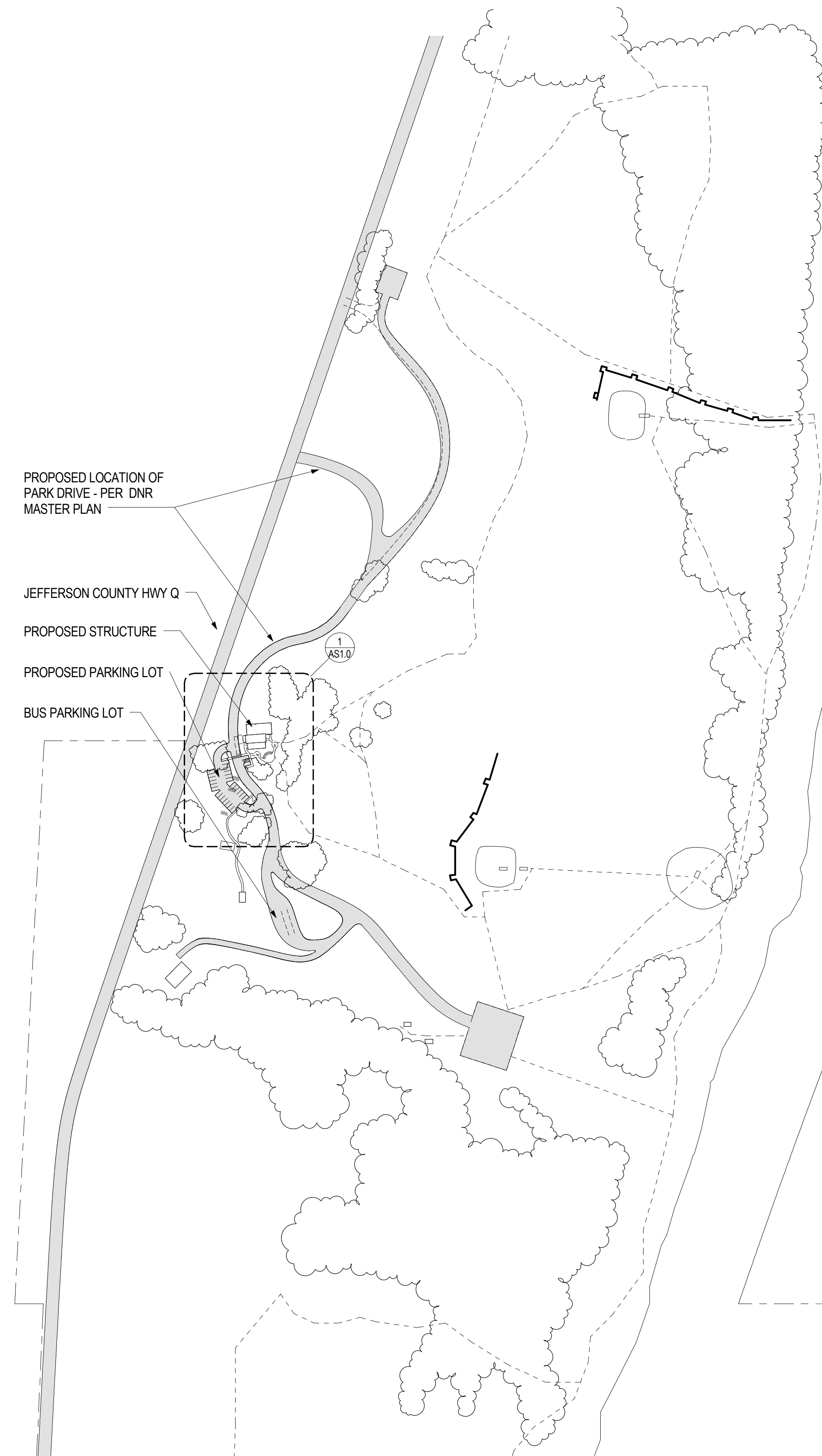
FRIENDS OF AZTALAN STATE PARK: VISITOR CENTER PRELIMINARY DESIGN

AZTALAN, WI

SITE PLAN PHASE I
05/28/2015
14098



2 SITE PLAN ENLARGED - PHASE II
1" = 30'-0"



1 WHOLE SITE - PHASE II
1" = 200'-0"

FRIENDS OF AZTALAN STATE PARK: VISITOR CENTER PRELIMINARY DESIGN

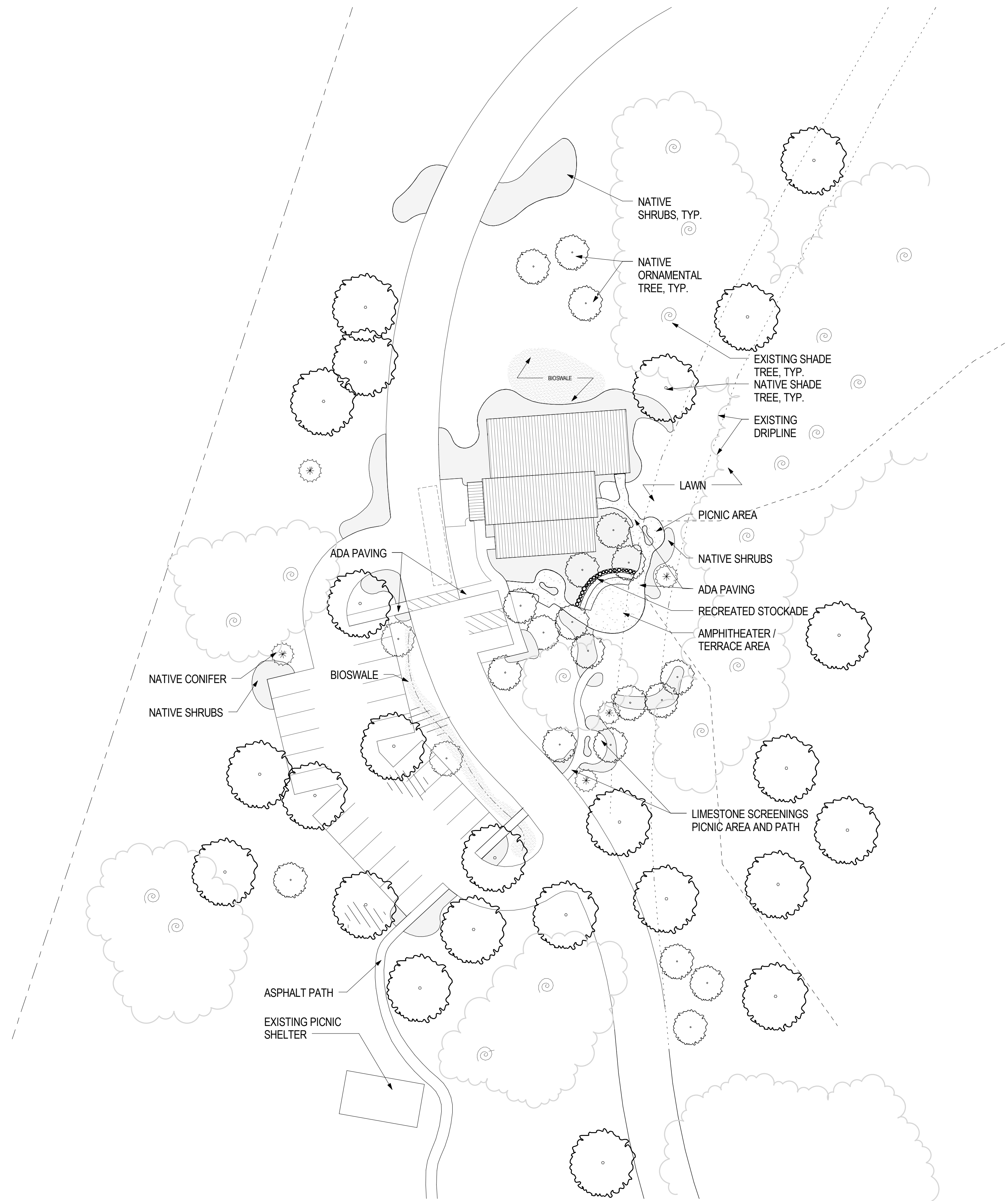
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SITE PLAN PHASE II
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14098



1 SITE PLAN ENLARGED - PHASE II LANDSCAPE
1" = 30'-0"

FRIENDS OF AZTALAN STATE PARK: VISITOR CENTER PRELIMINARY DESIGN

STRUCTURAL DESIGN CRITERIA

1. THESE NOTES SUPPLEMENT THE SPECIFICATIONS. PROJECT SPECIFICATIONS SHALL BE REFERRED TO FOR CLARIFICATIONS AND ADDITIONAL INFORMATION. IN CASE OF CONFLICT BETWEEN PROJECT SPECIFICATIONS AND THESE NOTES, THESE NOTES SHALL GOVERN.

2. GOVERNING BUILDING CODE: 2009 IBC AS AMENDED BY THE STATE OF WISCONSIN.

3. DESIGN LOADS

LIVE LOAD

TYPICAL SLAB ON GRADE-----100 psf

MEZZANINE-----100 psf

ROOF

LIVE LOAD-----50 psf + DRIFTING

SNOW-----10 psf

SUPERIMPOSED DEAD LOAD

TOP CHORD-----10 psf

BOTTOM CHORD-----10 psf

SNOW LOADS

GROUND SNOW (P_g)-----50 psf

SNOW LOAD IMPORTANCE FACTOR (I_s)-----1.0

SNOW LOAD EXPOSURE FACTOR (C_e)-----1.0

ROOF THERMAL LOAD FACTOR (C_t) AT BUILDING-----1.1

BASE ROOF SNOW LOAD AT BUILDING-----46.2 psf

WIND LOADS

BASIC WIND SPEED-----90 mph

BUILDING OCCUPANCY CATEGORY-----II

WIND LOAD IMPORTANCE FACTOR (I_w)-----1.0

WIND EXPOSURE CATEGORY-----C

INTERNAL PRESSURE COEFFICIENT-----±18

MAIN WIND/ROOF-RESISTING SYSTEM:

WIND/RS SELECTED EDGE STRIP DISTANCE, (2A)-----11.0 ft

CALCULATED HORIZONTAL LOADS

END ZONE

ROOF

INTERIOR ZONE

ROOF

TRANSVERSE CASE #1:

24.0 psf

16.5 psf

19.2 psf

13.2 psf

TRANSVERSE CASE #2:

24.0 psf

16.5 psf

19.2 psf

13.2 psf

LONGITUDINAL:

24.0 psf

16.5 psf

19.2 psf

13.2 psf

CALCULATED VERTICAL LOADS

END ZONE

INTERIOR ZONE

TRANSVERSE CASE #1:

WINDWARD

LEEWARD

14.7 psf

1.8 psf

19.7 psf

12.5 psf

TRANSVERSE CASE #2:

9.3 psf

-7.2 psf

8.0 psf

-5.2 psf

LONGITUDINAL:

-25.7 psf

-14.7 psf

-17.8 psf

-11.3 psf

COMPONENTS AND CLADDING:

(SEE ASCE/SEI 7-SECTION 6 FOR ZONE DEFINITIONS AND DIAGRAMS)

COMPONENT AND CLADDING SELECTED EDGE STRIP DISTANCE, (a)-----5.5 ft

TRIBUTARY WIND LOAD AREAS

10 ft

50 ft

100 ft

ROOF (MONOSLOPE):

ZONE 1 (NEGATIVE)

19.7 psf

17.3 psf

16.3 psf

ZONE 2 (NEGATIVE)

23.0 psf

20.7 psf

19.7 psf

ZONE 3 (NEGATIVE)

23.0 psf

20.7 psf

19.7 psf

WALLS:

ZONE 4 (NEGATIVE)

21.3 psf

19.3 psf

18.4 psf

ZONE 5 (NEGATIVE)

26.3 psf

22.3 psf

20.4 psf

ZONE 4&5 (POSITIVE)

19.7 psf

17.6 psf

16.7 psf
- SEISMIC LOADS

SEISMIC USE GROUP / OCCUPANCY CATEGORY-----II

SEISMIC IMPORTANCE FACTOR (I_s)-----1.0

SEISMIC SITE CLASS-----C

SPECTRAL RESPONSE COEFFICIENT (S_{ds})-----0.046

SPECTRAL RESPONSE COEFFICIENT (S_{d1})-----0.032

SEISMIC DESIGN CATEGORY-----A

BASIC SEISMIC FORCE RESISTING SYSTEM:

BEARING WALL SYSTEM

LIGHT FRAMED WALL SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE

R = 6.5

Δo = 3.0

Cd = 4.0

ANALYSIS PROCEDURE:

EQUIVALENT LATERAL FORCE PROCEDURE
4. FOUNDATIONS AND EARTHWORK

ALLOWABLE SOIL BEARING PRESSURE FOR FOOTINGS-----4,000 psf

5. CONCRETE

MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c)

FOOTINGS-----3,000 psi

PIERS, WALLS-----4,000 psi

SLAB-ON-GRADE (INTERIOR)-----3,500 psi

SLAB-ON-GRADE (EXTERIOR)-----4,500 psi

COVER ON MILD STEEL REINFORCEMENT

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH-----3"

CONCRETE EXPOSED TO EARTH OR WEATHER

#5 BARS AND SMALLER-----1 1/2"

#6 BARS AND LARGER-----2"

CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND-----1"

CONCRETE REINFORCEMENT YIELD STRENGTH (Fy)

ALL DEFORMED MILD STEEL-----60,000 psi

WELDED WIRE FABRIC-----65,000 psi

6. CONCRETE MASONRY

DESIGN STRESSES

MASONRY (NORMAL WEIGHT) MEETING ASTM C90-----fm = 2,250 psi

GROUT: MIN COMPRESSIVE STRENGTH AT 28 DAYS MEETING ASTM C476-----3,000 psi

7. STRUCTURAL STEEL

STRUCTURAL STEEL YIELD STRENGTH (Fy)

TUBES-----46,000 psi

WF BEAMS-----50,000 psi

WF COLUMNS-----50,000 psi

BOLTS FOR STANDARD FRAME CONNECTIONS-----3/4" DIAMETER A325

BOLTS FOR SINGLE SHEAR TAB CONNECTIONS-----3/4" DIAMETER A325

ANCHOR RODS-----F1554

WELDING ELECTRODES-----E70

8. MISCELLANEOUS

VERIFY OPENINGS THROUGH FLOOR AND WALLS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL REQUIREMENTS. CHANGES IN SIZE, LOCATION OR NUMBER OF OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER. NOT ALL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS.

GENERAL NOTES

1. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THE SHOP DRAWINGS AND WORK.
2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL BEAM, COLUMN, SUPPORT FLOOR, LOAD BEARING WALL, FOOTING, OR FOUNDATION WALL WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER. OPENINGS IN NON-LOAD BEARING WALLS REQUIRE THE ARCHITECT'S APPROVAL.
3. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON NEW STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
4. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.
5. FIREPROOFING METHODS AND MATERIALS FOR STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR RATING REQUIREMENTS, FIREPROOFING METHODS AND MATERIALS.
6. ALL SECTIONS, DETAIL AND NOTES SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED.
7. WHEN CONFLICTS ARE NOTED ON THE DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE AE FOR RESOLUTION PRIOR TO FABRICATION OR INSTALLATION.

FOUNDATION NOTES

1. GEOTECHNICAL INFORMATION TAKEN FROM:
2. THE OWNER SHALL RETAIN A SOILS ENGINEERING FIRM TO MONITOR PROPER SUBGRADE PREPARATIONS AND TO OVERSEE THE TESTING AND COMPACTION OF COMPACTED FILL MATERIAL.
3. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND UTILITIES BEFORE FOUNDATION EXCAVATION IF UNDERGROUND UTILITY CONFLICTS ARE DISCOVERED BEFORE OR ENCOUNTERED DURING EXCAVATION, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY.
4. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ANY EXISTING FOUNDATIONS.
5. BEFORE PLACING FOOTINGS, FOUNDATIONS, GRADE BEAMS, OR SLAB-ON-GRADE, THE SUB-GRADE SHALL BE PREPARED AND INSPECTED AS REQUIRED BY THE SPECIFICATIONS AND THE DRAWINGS.
6. REINFORCE ALL FOUNDATION WALLS AND FOOTINGS AS SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
7. CONTROL JOINTS IN THE CAST-IN-PLACE CONCRETE FOUNDATION WALLS SHALL BE PLACED AT NOT TO EXCEED 20' OC OR AS LOCATED ON THE DRAWINGS.
8. PERIMETER FOUNDATION WALL INSULATION IS NOT SHOWN ON THE FOUNDATION DETAILS. SEE ARCHITECTURAL DRAWINGS AND THE SPECIFICATIONS FOR INSULATION REQUIREMENTS.
9. SEE SPECIFICATIONS FOR FREE DRAINING BACKFILL BENEATH ALL CONCRETE WALKS AND SLABS ADJACENT TO STRUCTURE.
10. CONTRACTOR NOTE: THE BASE OF ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER AND LOOSE SOIL PRIOR TO PLACING CONCRETE. CARE SHOULD BE TAKEN DURING EXCAVATION AND CONSTRUCTION TO MINIMIZE DISTURBANCE OF THE BEARING SOILS. THE CONCRETE SHOULD BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATION TO PREVENT EXCESSIVE DRYING OR WETTING OF THE SOIL.

CONCRETE CONSTRUCTION NOTES

1. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM WITH THE LOCAL BUILDING CODE REQUIREMENTS AND THOSE OF THE FOLLOWING STANDARDS (LATEST EDITION).
"ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
"ACI 315, DETAILS AND DETAILING OF CONCRETE REINFORCEMENT".
"ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
"ACI 307, RECOMMENDED PRACTICE FOR CONCRETE FORMWORK".
2. SEE SPECIFICATIONS FOR INFORMATION REGARDING CONCRETE MIX DESIGN, TESTING, MATERIALS, AND ADMIXTURES.
3. ALL CONCRETE REINFORCING STEEL IS TO BE ASTM A-615, GRADE 60.
4. PIPE SLEEVES OVER 1-1/2" INCHES IN DIAMETER WHICH PASS THROUGH CONCRETE WALLS OR SLABS SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE. ALL OTHER SLEEVES SHALL BE 14 GAUGE SHEET METAL. SLEEVES SHALL BE ONE SIZE LARGER THAN OUTSIDE DIAMETER OF PIPE PASSING THROUGH SLEEVE. VERIFY SIZE AND NUMBER WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS.
5. ALUMINUM CONDUIT IS NOT PERMITTED TO BE EMBEDDED IN CONCRETE.
6. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES.
7. THE CONSTRUCTION JOINTS NOTED ON THE FRAMING PLANS MUST BE PLACED AS SHOWN. ADDITIONAL CONSTRUCTION JOINTS OR MODIFICATIONS TO THOSE SHOWN WILL BE ALLOWED ONLY AFTER THEIR LOCATION HAS BEEN APPROVED BY THE ARCHITECT/ENGINEER.
8. REFER TO ARCHITECTURAL DRAWINGS FOR SLAB-ON-GRADE FINISH TYPES AND DEPRESSIONS AS REQUIRED FOR MATS, TILES, SLAB FLATNESS TOLERANCE, AND OTHER FINISH MATERIALS.

GENERAL NOTES APPLY TO ALL SHEETS

1. CONTRACTOR TO PROVIDE DRAFT STOPPING IN ATTIC. MAXIMUM AREA OF SUBDIVIDE ATTIC AREA IS 3000 sq' CONTRACTOR TO COORDINATE LOCATION OF DRAFT STOPPING WITH ARCHITECT AND TRUSS SHOP DRAWINGS PRIOR TO START OF CONSTRUCTION. PROVIDE AN ATTIC ACCESS PANEL INTO EACH ATTIC COMPARTMENT. MINIMUM OPENING SIZE OF 20" x 30" COORDINATE LOCATION WITH ARCHITECT. DRAFT STOPPING TO EXTEND TO FASCIA AT OVERHANGS.
2. SECURE TRUSSES AT EACH BEARING WITH SIMPSON H2.5A MIN.
3. CONTRACTOR TO SUBMIT TRUSS SHOP DRAWINGS TO ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.

WOOD TRUSS NOTES

1. TRUSS FABRICATOR SHALL DESIGN TRUSSES FOR LOADS SPECIFIED ON PLANS IN CONFORMANCE WITH "QUALITY CONTROL MANUAL" BY TPI. REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEAD LOADS RESULTING FROM DORMERS AND OTHER MISCELLANEOUS FRAMING. ALL TRUSSES SHALL BE DESIGNED FOR A MINIMUM OF 30 psf LIVE LOAD PLUS 10 psf DEAD LOAD.
2. LIVE LOAD IS ON A HORIZONTAL PROJECTION OTHER LIVE LOADS SHOWN ON THE DRAWINGS ARE IN ADDITION TO THESE DESIGNATED LOADS.
3. CHECK VERTICALLY PROJECTED ELEMENTS FOR DESIGN WIND LOAD.
4. DESIGN TRUSSES TO RESIST A NET UPLIFT OF 10 psf.
5. SUBMIT SHOP DRAWINGS AND CALCULATIONS PRIOR TO FABRICATION.
6. CONFORM TO NDS AND TPI SPECIFICATIONS.
7. FLOOR TRUSS LL DEFLECTION SHALL NOT EXCEED L/480.
8. ROOF TRUSS LL DEFLECTION SHALL NOT EXCEED L/360.
9. PERMANENT BRACING NOT SHOWN ON PLANS, WHICH IS REQUIRED FOR STRENGTH AND STABILITY OF TRUSS MEMBERS, SHALL BE DESIGNED AND PROVIDED BY TRUSS SUPPLIER.
10. ALL BRACING SHOWN OR DESCRIBED SHALL BE MINIMUM (2x4 W/(2) 16d) (2x6 W/(3) 10d) IN EVERY TRUSS IT CROSSES.
11. ALL TRUSS TOP CHORDS SHALL BE CONTINUOUSLY BRACED BY THE (ROOF/FLOOR) DECKING. ALL ROOF TRUSS WEB MEMBERS SHALL BE BRACED AT 4'-0" OC UNLESS CALCULATIONS SHOW OTHERWISE.
12. TEMPORARY BRACING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. PROVIDE IN ACCORDANCE WITH TPI GUIDELINES.
13. PROVIDE 24" WIDE VIERENDEEL PANEL AT CENTER OF EACH PARALLEL CHORD TRUSS.
14. ALL TRUSSES EXPOSED DIRECTLY TO MOISTURE SHALL BE MADE OF PRESSURE TREATED LUMBER.

WOOD FRAMING NOTES

1. DESIGN, FABRICATION AND CONSTRUCTION SHALL CONFORM TO THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", LATEST EDITION, AS RECOMMENDED BY THE NATIONAL LUMBER MANUFACTURER'S ASSOCIATION.
2. DESIGN, FABRICATION AND CONSTRUCTION OF ALL PLYWOOD FRAMING SHALL CONFORM TO "PLYWOOD DESIGN SPECIFICATIONS", LATEST EDITION, AS PUBLISHED BY THE AMERICAN PLYWOOD ASSOCIATION. ALL COLUMNS SHOWN ON STRUCTURAL DRAWINGS SHALL BE CONTINUOUS UNLESS NOTED. 3. 4. SILLS AND MEMBERS EXPOSED DIRECTLY TO MOISTURE OR IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
3. PLYWOOD SHALL CONFORM TO THE LATEST EDITION OF U.S. PRODUCT STANDARD PS-1. INSTALL IN STAGGERED PATTERN. NAIL AS REQUIRED FOR DIAPHRAGM ACTION.
4. FRAMING CONNECTIONS SHALL BE SIMPSON COMPANY OR EQUAL, OF THE CATALOG DESIGNATIONS INDICATED. INSTALL MANUFACTURERS STANDARD NAILS IN ALL HOLES PROVIDED UNLESS OTHERWISE NOTED.
5. SHEAR PLATE AND SPLIT RING FASTENERS SHALL BE TECO OR APPROVED EQUAL.
6. NAILS SHALL BE STRONGHOLD, GALVANIZED COMMON NAILS OF THE SIZES INDICATED, EXCEPT THAT GALVANIZED SIDING NAILS SHALL BE USED FOR THE ATTACHMENT OF EXTERIOR PLYWOOD SIDING.
7. WHERE NOT NOTED OTHERWISE, NAILING SHALL BE ACCORDING TO NAILING SCHEDULE IN TABLE 2304.9.1 IBC.
8. ALL BOLTS AND LAG SCREWS SHALL BE AMERICAN STANDARD MANUFACTURE.
9. BOLT HOLES IN WOOD SHALL BE DRILLED 1/16" MAXIMUM OVERSIZE. HOLES FOR SCREWS AND LAG SCREWS SHALL BE FIRST BORED FOR THE SAME DEPTH AND DIAMETER OF THE SHANK THEN THE REMAINDER OCCUPIED BY THE THREADED PORTION SHALL BE BORED NOT LARGER IN DIAMETER THAN THE ROOT OF THE THREAD. ALL SCREWS SHALL BE SCREWED, NOT DRIVEN INTO PLACE.
10. PROVIDE WASHERS UNDER ALL NUTS AND HEADS OF BOLTS AND LAG SCREWS, WASHERS SHALL BE EITHER ROUND MALLEABLE IRON OR SQUARE CUT STEEL WASHERS 1/4" THICK x 3 FASTENER DIAMETERS.
11. ALL TIMBER FRAMING SHALL BE ACCURATELY CUT, NOTCHED, OR DAPED AS INDICATED. NO OVERCUT IS PERMITTED FOR NOTCHES OR DAPS. MEMBERS SHALL FIT TIGHT AND TRUE. EXAMINE MEMBERS FOR DETRIMENTAL DAMAGE BEFORE INSTALLATION, AND AVOID NATURAL DEFECTS AT CONNECTIONS. WHERE STEEL PLATES OCCUR, THEY SHALL BE USED AS THE TEMPLATE FOR BORING HOLES.
12. WHEREVER NECESSARY TO CUT OR DRILL TREATED LUMBER, TREAT THE CUT OR BORED SURFACES WITH TWO HEAVY COATS OF THE SAME PRESERVATIVE AS THE ORIGINAL TREATMENT.
13. PROVIDE SOLID BLOCKING AT MID-HEIGHT OF ALL WALLS.
14. PROVIDE SOLID BLOCKING AT MID-SPAN OF SAWN JOISTS EXCEEDING 10 FOOT SPAN AND AT 10 FOOT MAXIMUM ON CENTER.
15. MEMBERS BEARING ON CONCRETE OR MASONRY WALLS SHALL HAVE A 1/2" AIR SPACE AROUND SIDES AND END OF BEAM.
16. PROVIDE SOLID BLOCKING BETWEEN JOISTS AT ALL SUPPORTS.
17. SET ALL JOISTS WITH CROWN UP.
18. PLYWOOD PANEL EDGES SHALL BE NAILED NOT LESS THAN 3/8" IN FROM THE PANEL EDGE.
19. PROVIDE 1/4" GAP BETWEEN 4' x 8' PLYWOOD PANELS AT SIDES AND 1/8" GAP AT ENDS. USE PLYWOOD CLIP SPACERS TO MAINTAIN GAPS.
20. BOLT NAILERS AND BLOCKING TO STEEL, MASONRY, OR CONCRETE MEMBERS WITH BOLTS OF LENGTH REQUIRED SPACED 2'-0" OC AND 4" FROM EACH END, EXCEPT AS OTHERWISE NOTED. ANCHOR BOLTS SHALL BE 3/8" DIAMETER UNLESS OTHERWISE INDICATED.

ABBREVIATIONS

AB#	ANCHOR BOLTS (RODS)
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ARCH	ARCHITECTURAL
BLDG	BUILDING
BRG	BEARING
BRP(W)	BASE PLATE CALL-OUT
CB	CAST-IN-PLACE
CJ	CONTROL JOINT
CLR	CENTER LINE
CMU	CLEAR (DISTANCE)
COL	CONCRETE MASONRY UNIT
CONC	COLUMN
CONT	CONCRETE
DBA	CONTINUOUS
DIA	DEFORMED BAR ANCHOR
DWG	DIAMETER
EOD	DRAWING
EOS	EDGE OF DECK
EF	EDGE OF SLAB
EJ	EACH FACE
EQ	EXPANSION JOINT
EW	ELEVATION
EXP	EQUAL
EXTGR	EACH WAY
FD	EXPANSION
FV	EXTENSION
Fi(W)	EXISTING
GA	FLOOR DRAIN
GALV	FLOOR
GC	FIELD VERIFY
GLULAM	FOOTING CALL-OUT
HK	GAUGE
HORIZ	GALVANIZED
HP	GENERAL CONTRACTOR
HWS	GLUE-LAMINATED BEAM(S)
IF	HOOK
INT	HORIZONTAL
JBE	HIGH POINT
LLH	HEADED WELDED STUD(S)
LLV	INSIDE FACE
LSL	INTERIOR
LVL	JOIST BEARING ELEVATION
LW	LONG LEG HORIZONTAL
MAX	LONG LEG VERTICAL
MECH	LONG WAY
MFR	MAXIMUM
MIN	MECHANICAL
MISC	MANUFACTURER
NA	MISCELLANEOUS
NTS	NOT APPLICABLE
OC	NOT TO SCALE
OPNG	ON CENTER
OPP	OUTSIDE FACE
PC	OPENING
PCI	OPPOSITE
PL	PRECAST / PRESTRESSED
PLF	POUNDS PER CUBIC INCH
PROJ	PLATE
PSF	POUNDS PER LINEAR FOOT
PSI	PROJECTION
PT	POUNDS PER CUBIC FOOT
P(4)	POUNDS PER SQUARE INCH
RD	PRE (POST)-TENSIONED
REIN	PIER CALL-OUT
RTU	REINFORCED(JOING)
SIM	ROOF TOP UNIT
SOG	SIMILAR
SPA	SLAB-ON-GRADE
SPEC	SPACES(ED)(ING)
SS	SPECIFICATION(S)
SW	STAINLESS STEEL
TL	SHORT WAY
TP	TOP OF LEDGE
TW	TOP OF PIER
TYP	TOP OF WALL
UNO	TYPICAL
VERT	UNLESS NOTED OTHERWISE
WP	VERTICAL
WWF	WORKING POINT
	WELDED WIRE FABRIC



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Contractors are responsible for the means, methods, techniques, sequences and procedures of construction including, but not limited to, temporary supports, shoring, forming to support imposed loads and other similar items.

FRIENDS OF AZTALAN STATE PARK -VISITOR CENTER

AZTALAN, WI

PRELIMINARY DESIGN - APRIL 10, 2015- NOT FOR CONSTRUCTION

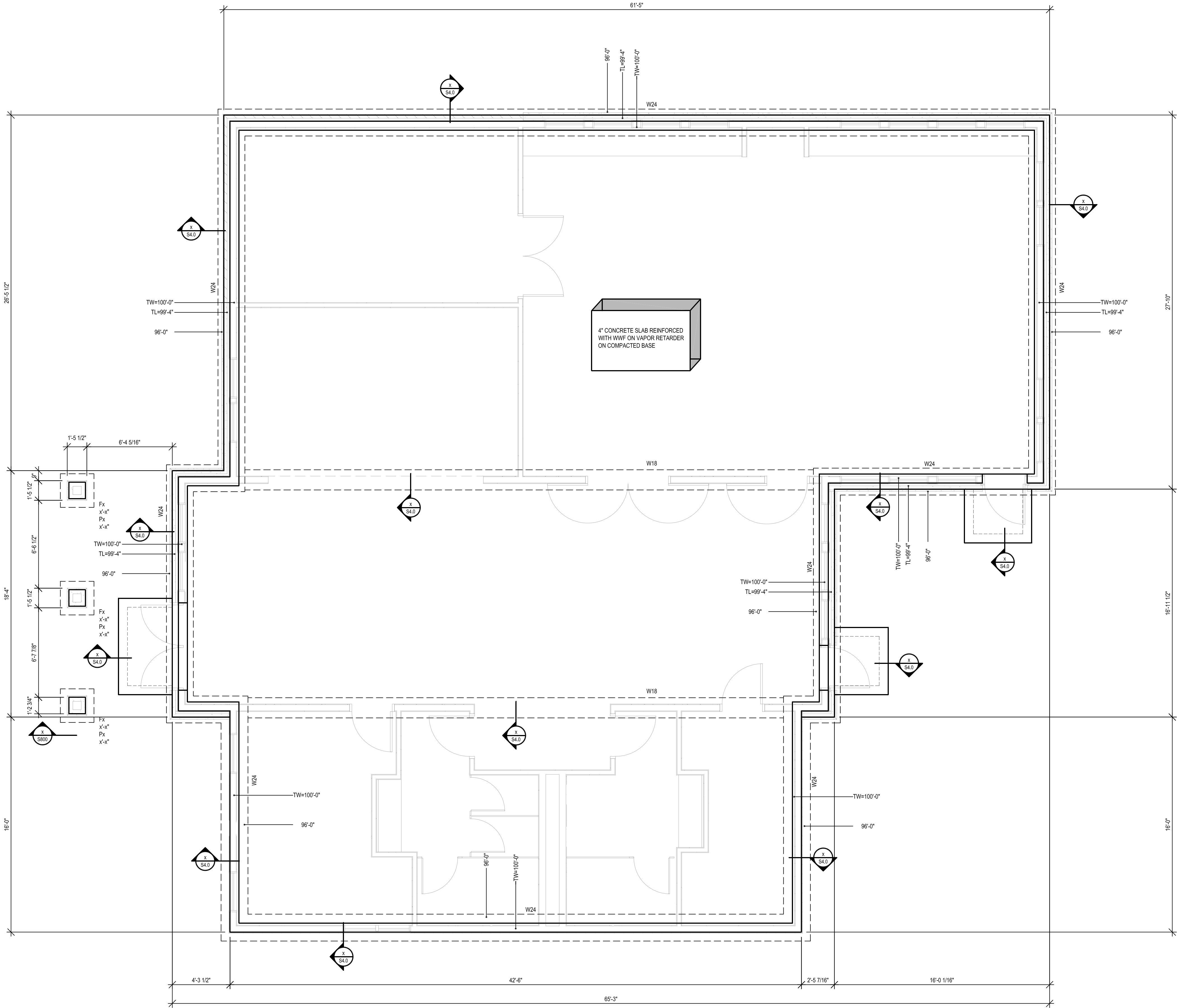
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PROJECT # 14098

STRUCTURAL NOTE SHEET

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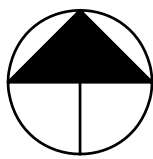


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FOUNDATION PLAN

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

0' 1' 2' 4' 6'



NOTES:

1.

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PRELIMINARY DESIGN - APRIL 10, 2015- NOT FOR CONSTRUCTION

FRIENDS OF
AZTALAN STATE
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CENTER

AZTALAN, WI

DATE OF ISSUE: 03/09/2015

REVISIONS:

PROJECT # 14098

FOUNDATION
PLAN

S1.0



5100 Eastpark Blvd., Suite 300, Madison, WI 53718,
ph. 608-243-6470 · Job# 2015072

Contractors are responsible for the means, methods, techniques, sequences
and procedures of construction including, but not limited to, temporary
supports, shoring, forming to support imposed loads and other similar items.

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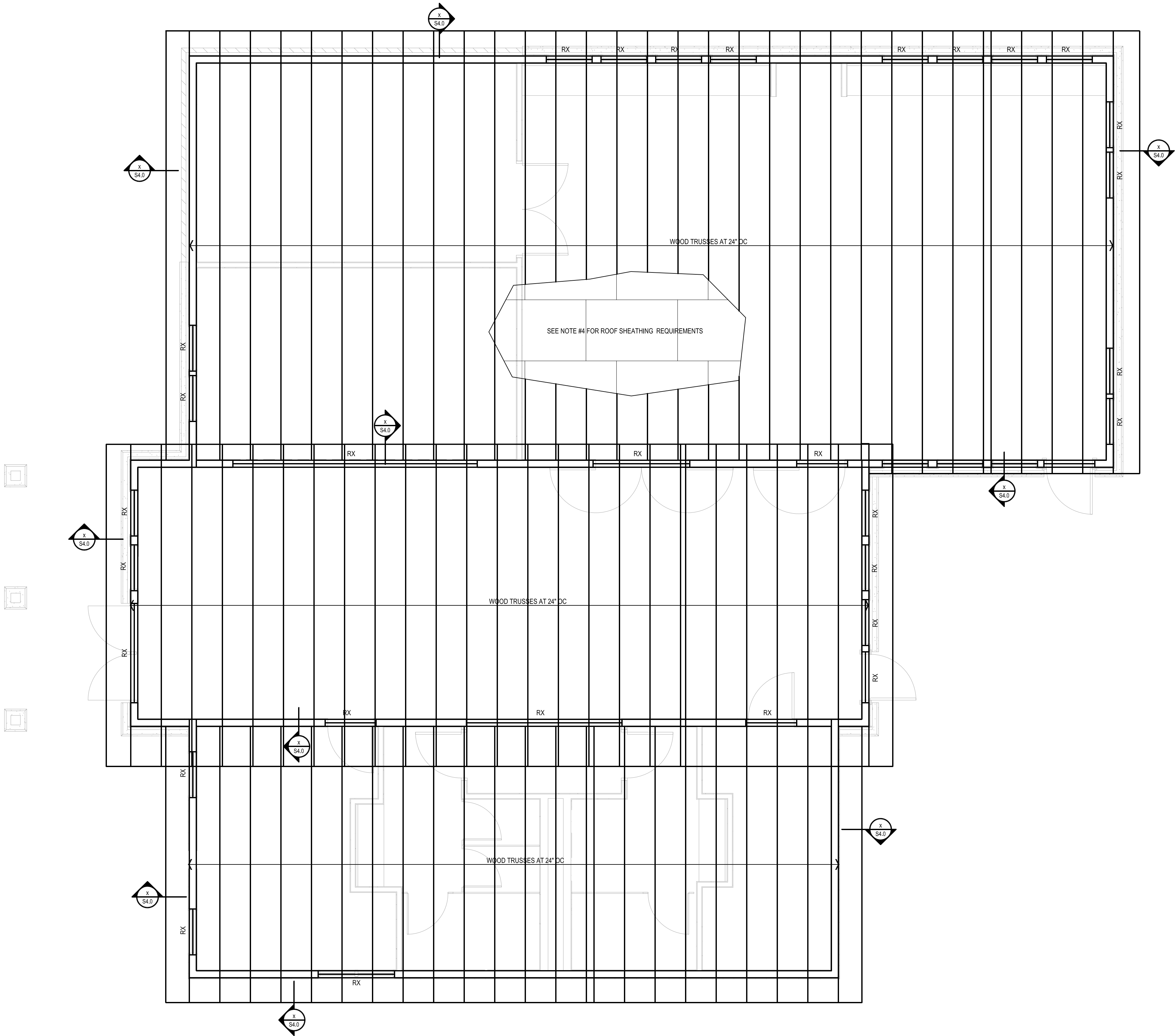
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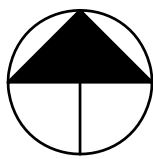
ROOF FRAMING
PLAN

S3.0



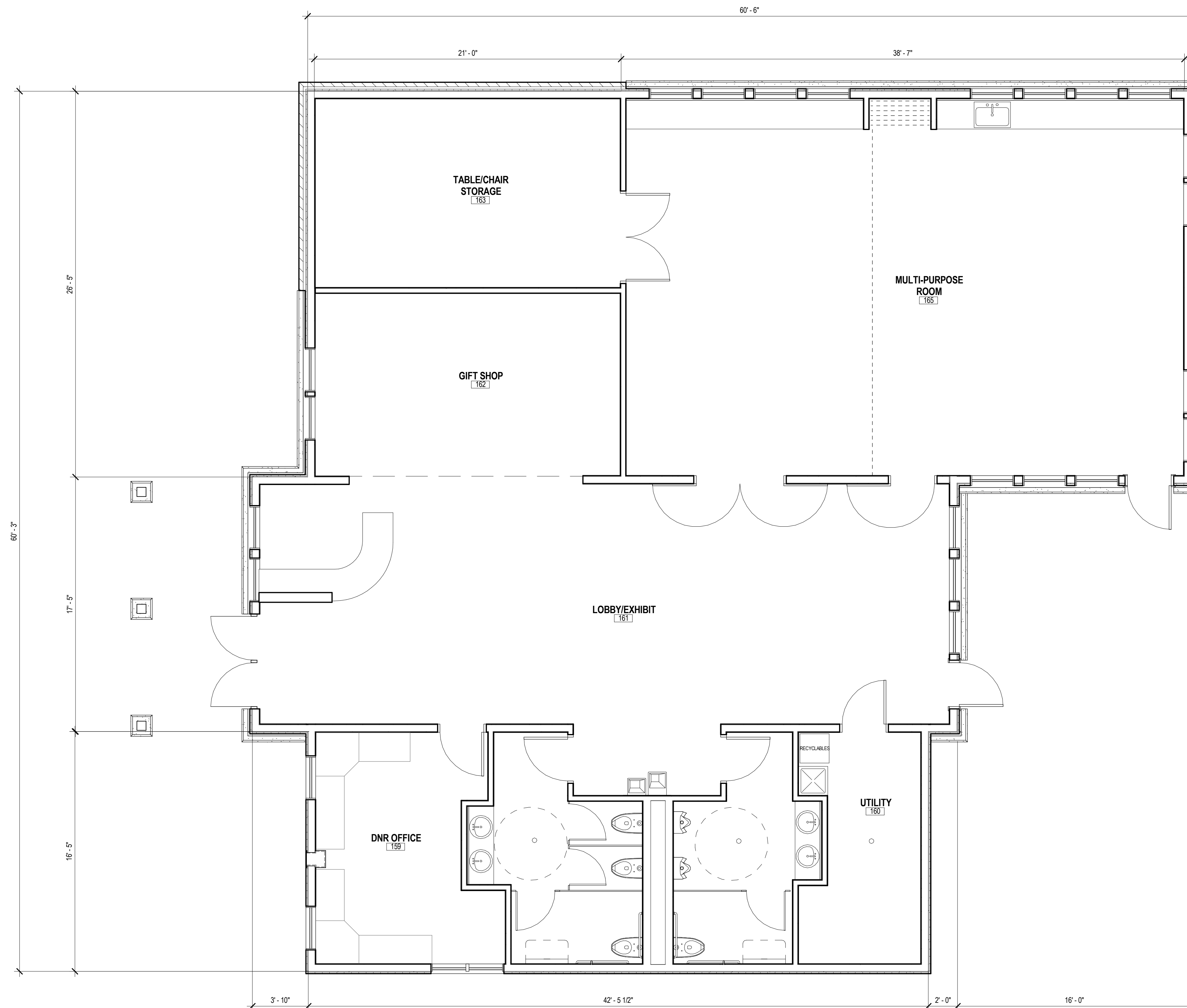
1 ROOF FRAMING PLAN
S3.0

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

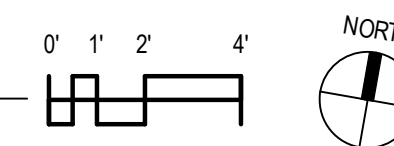


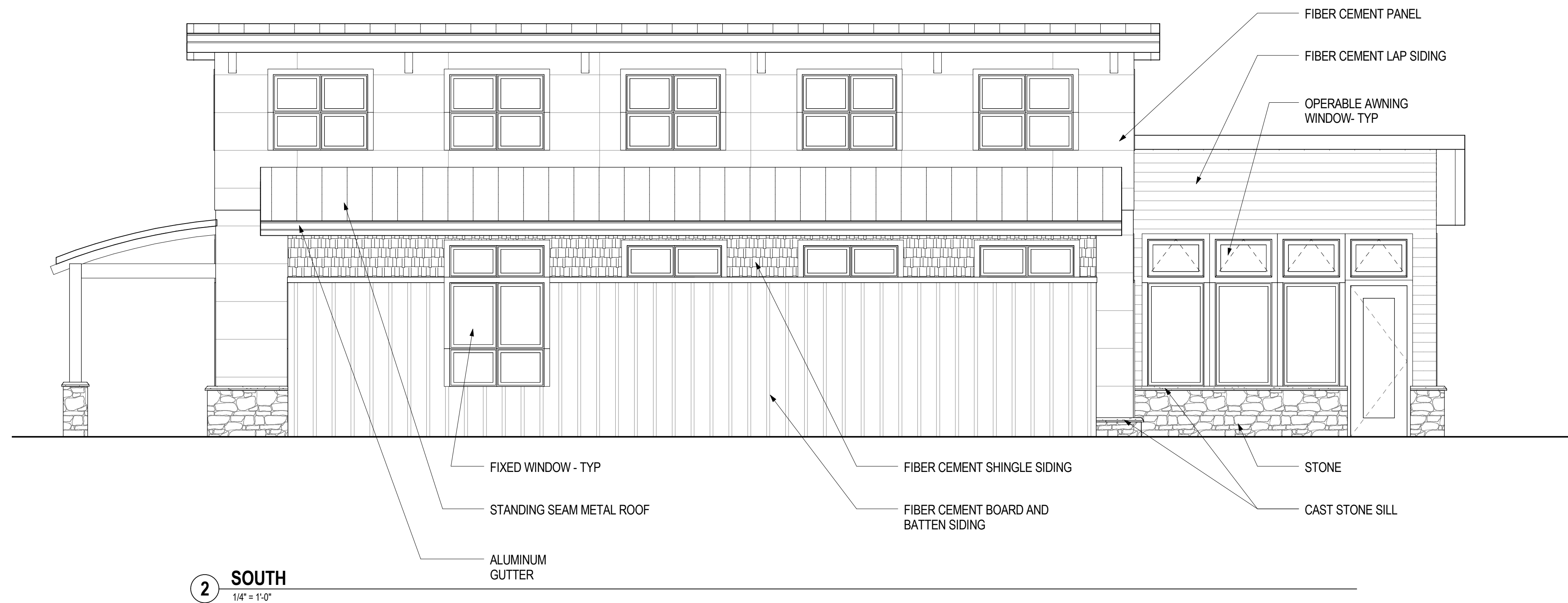
NOTES:

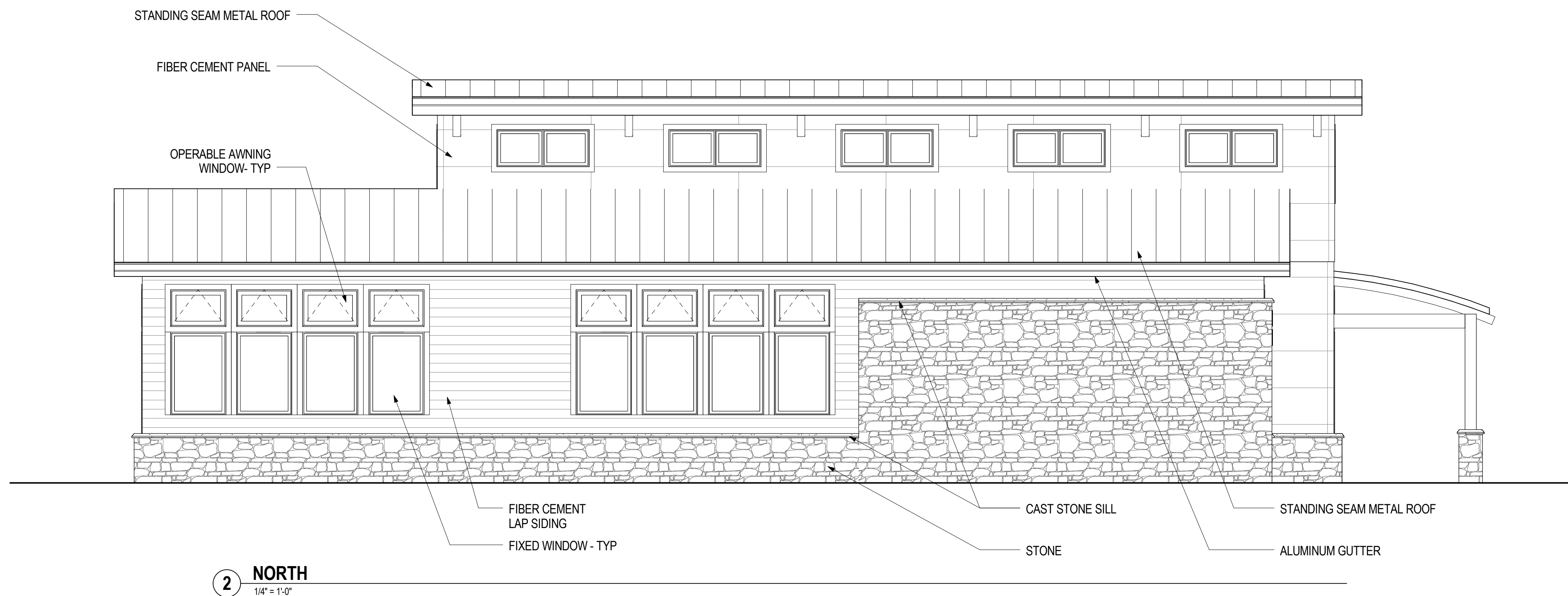
- GENERAL NOTES APPLY TO ALL SHEETS, SEE SHEET S0.0.
- SECURE ROOF TRUSSES AT EACH BEARING WITH SIMPSON H2.5A MIN.
- TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOAD: TOP CHORD: LIVE LOAD=30 PSF, DEAD LOAD=10 PSF, BOTTOM CHORD: LIVE LOAD=10 PSF, DEAD LOAD=10 PSF. TRUSS DESIGNER TO ANALYZE TRUSSES FOR AN UNBALANCED ROOF SNOW LOAD PER DIAGRAM.
- ROOF SHEATHING SHALL BE 1/2" CDX OR OSB SHEATHING, APA RATED 24/16 EXPOSURE 1, NAILED W/ 8D NAILS AT 4" OC AT ALL EDGES AND 12" OC IN THE FIELD.
- TRUSS SUPPLIER SHALL DESIGN AND SUPPLY ALL TRUSS TO TRUSS AND TRUSS TO BEARING CONDITIONS FOR BOTH GRAVITY AND UPLIFT CONDITIONS.



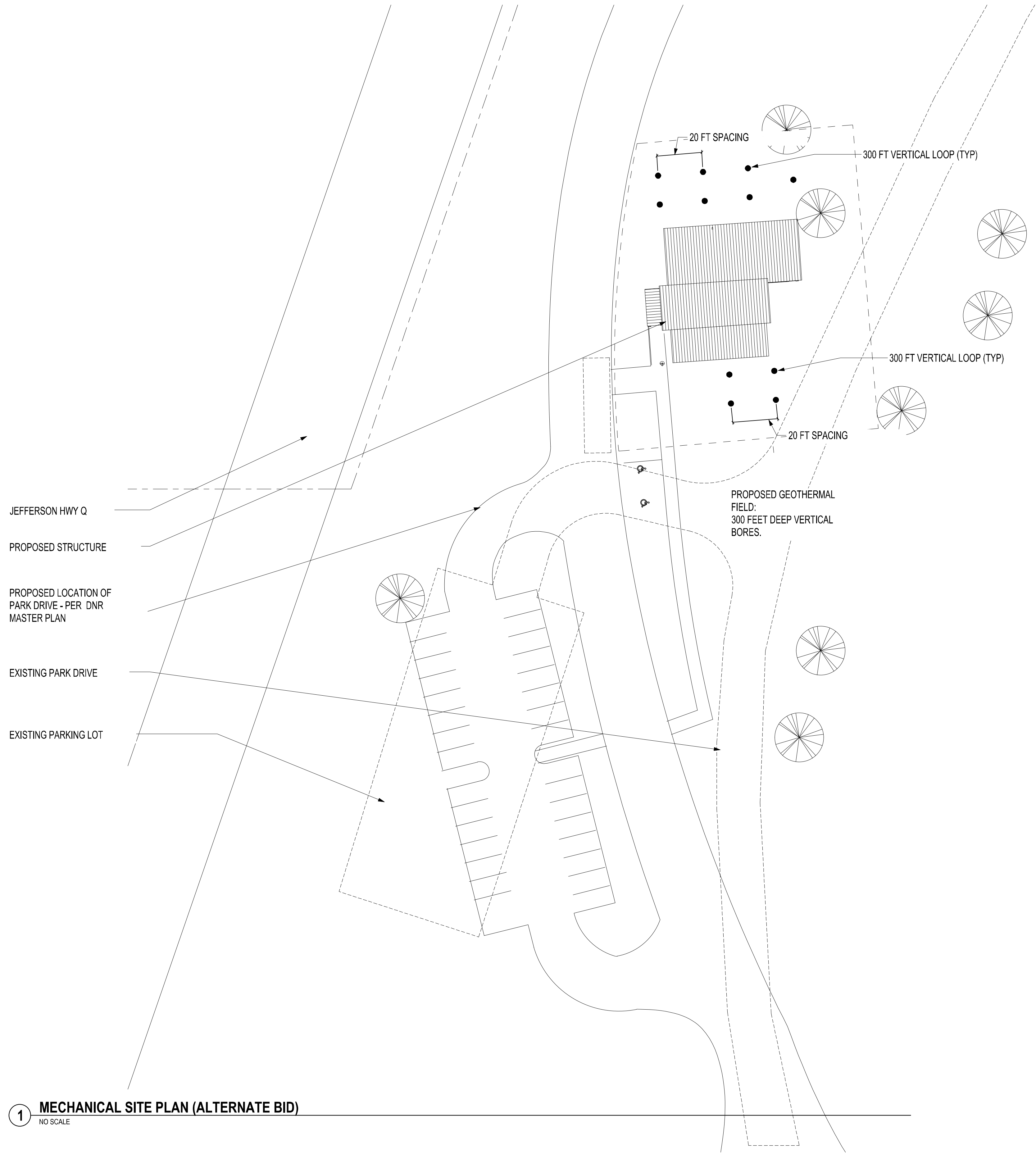
1 FIRST FLOOR PLAN
1/4" = 1'-0"







3/11/2015 11:59:46 AM Y:\2015 Projects\2015072 Aztalan Park Visitors Center\Drawings\REVIT MODEL\03 10 2015 - Aztalan Visitor Center.rvt



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MECHANICAL SITE PLAN -
(ALTERNATE BID)



H0.1

ABBREVIATIONS

A/E	ARCHITECT / ENGINEER
AAHX	AIR TO AIR HEAT EXCHANGER
ACCU	AIR-COOLED CONDENSING UNIT
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFMD	AIR FLOW MEASURING DEVICE
AHU	AIR-HANDLING UNIT
AMP	AMPERE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE
AS	AIR SEPARATOR
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS

B	BOILER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR

C	CONVECTOR
CC	COOLING COIL
CCD	COOLING COIL CONDENSATE DRAIN
CD	CEILING DIFFUSER
CENT	CENTRIFUGAL
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CFT	CUBIC FEET
CI	CAST IRON
COP	COEFFICIENT OF PERFORMANCE
COMP	COMPRESSOR
CP	CONDENSATE PUMP
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME
CW	COLD WATER (POTABLE)

D	DAMPER -- AUTOMATIC
DB	DECIBELS
Db	DRY-BULB TEMPERATURE
DC	DUST COLLECTOR
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE
DG	DOOR GRILLE
DIA	DIAMETER
DN	DOWN
DP	DEW POINT TEMPERATURE
DUC	DOOR UNDERCUT
DWH	DOMESTIC WATER HEATER
DX	DIRECT EXPANSION

EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ENT	ENTERING
ERU	ENERGY RECOVERY UNIT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EIH	ELECTRIC INFRARED HEATER
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE

F	FAHRENHEIT
F&T	FLOAT AND THERMOSTATIC
FSD	COMBINATION FIRE SMOKE DAMPER
FA	FREE AREA
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
F	FIRE DAMPER
FF	FINAL FILTER
FG	FILTER GRILLE
FM	FLOW METER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FSTAT	FREEZE/STAT

G	NATURAL GAS
GA	GAUGE
GAL	GALLONS
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GS	GALVANIZED STEEL

HC	HEATING COIL
HD	HEAD
HGBP	REFRIGERANT HOT GAS BYPASS
HP	HEAT PUMP
HP	HORSEPOWER
HPR	HIGH PRESSURE RETURN (STEAM CONDENSATE)
HPS	HIGH PRESSURE SUPPLY (STEAM)
HRC	HEAT RECOVERY COIL
HSTAT	HUMIDISTAT
HW	HOT WATER
HWC	HOT WATER COIL
HWWF	HOT WATER WALLFIN
HX	HEAT EXCHANGER
HZ	HERTZ

I/O	INPUT/OUTPUT
IAQ	INDOOR AIR QUALITY
ID	INSIDE DIAMETER
IFB	INTEGRAL FACE AND BYPASS
IN	INCHES
IN HG	INCHES OF MERCURY
IN WC	INCH WATER COLUMN
IN WG	INCH WATER GAUGE
IN-LB	INCH-POUND
IPLV	INTERGRATED PART LOAD VALUE

kW	KILOWATT
kWh	KILOWATT HOUR

L	LOUVER
LAT	LEAVING AIR TEMPERATURE
LBS/HR	POUNDS PER HOUR
LF	LINEAR FOOT (FEET)
LPR	LOW PRESSURE RETURN (STEAM CONDENSATE)
LPS	LOW PRESSURE STEAM
LWT	LEAVING WATER TEMPERATURE

MAT	MIXED AIR TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	1000 BTUH
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MD	MOTORIZED DAMPER
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MIN	MINIMUM
MOP	MAX OVERCURRENT PROTECTION
M.C.	MECHANICAL CONTRACTOR

NA	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NPLV	NON-STANDARD PART LOAD VALUE
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE

OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER

P	PUMP
PC	PUMPED CONDENSATE
PCF	POUNDS PER CUBIC FOOT (FEET)
PD	PRESSURE DROP
PG	PRESSURE GAGE
PG	PROPYLENE GLYCOL-WATER (SOLUTION)
PPM	PARTS PER MILLION
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH -ABSOLUTE
PSIG	POUNDS PER SQUARE INCH -GAGE
PTAC	PACKAGED TERMINAL AIR CONDITIONER

(X)R	STEAM RADIATOR
R	RETURN
RA	RETURN AIR
RF	RETURN FAN
RG	RETURN GRILLE
RH	ROOF HOOD
RHC	REHEAT COIL
RHG	REFRIGERANT HOT GAS
RL	REFRIGERANT LIQUID LINE
RLA	RUN LOAD AMPERE
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOF TOP UNIT

SA	SUPPLY AIR
SAD	SOUND ATTENUATING DEVICE
SAT	SUPPLY AIR TEMPERATURE
SC	SHADING COEFFICIENT
SCFM	STANDARD CUBIC FEET PER MINUTE
SD	SMOKE DETECTOR
SD	SLOT DIFFUSER
SF	SUPPLY FAN
SG	SUPPLY AIR GRILLE
SHC	STEAM HEATING COIL
SI	SQUARE INCHES
SP	STATIC PRESSURE
SP GR	SPECIFIC GRAVITY
SPS	STATIC PRESSURE SENSOR
SQ FT	SQUARE FOOT (FEET)
SS	STAINLESS STEEL
ST	STEAM TRAP
SUH	STEAM UNIT HEATER
SWHX	STEAM TO WATER HEAT EXCHANGER

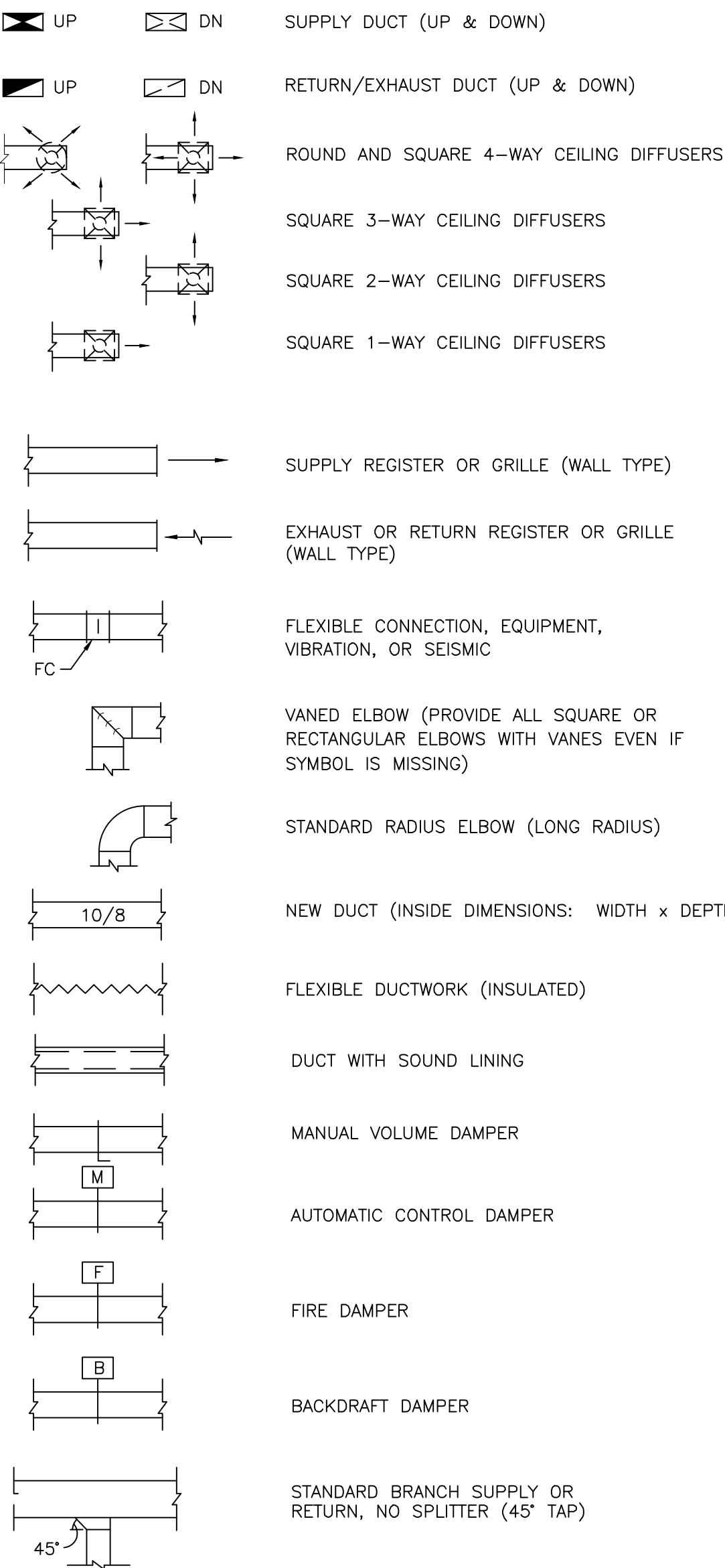
T	TRANSFER GRILLE
TAB	TESTING, ADJUSTING, BALANCE
TCP	TEMPERATURE CONTROL PANEL
TD	TEMPERATURE DIFFERENCE
TG	TRANSFER GRILLE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT

UH	UNIT HEATER
UV	UNIT VENTILATOR

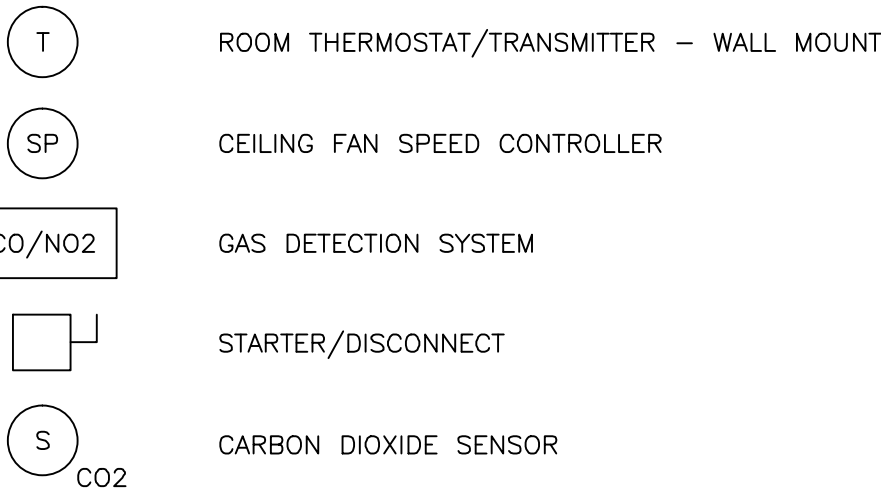
WWHP	WATER TO WATER HEAT PUMP
WWHX	WATER TO WATER HEAT EXCHANGER
WF	WATER FILTER

(X)	EXISTING EQUIPMENT (WHEN FOLLOWED BY EQUIPMENT ABBREVIATION)
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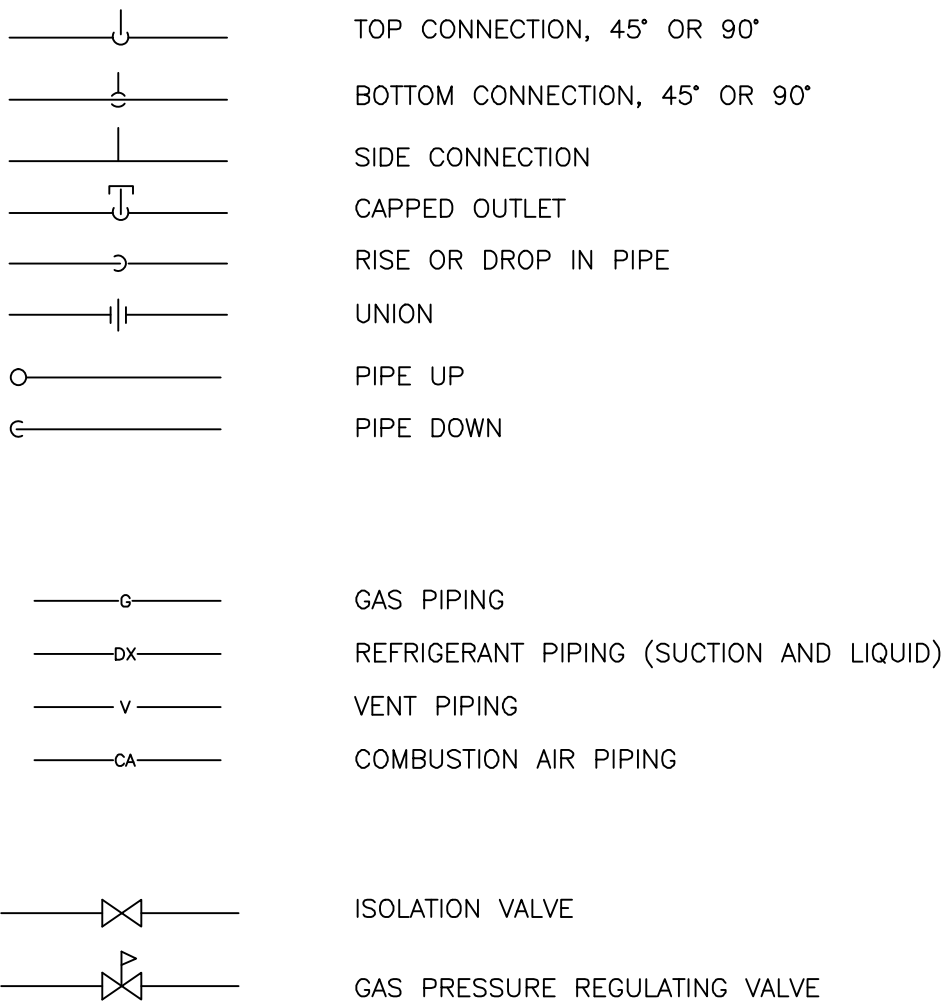
DUCTWORK SYMBOLS



CONTROLS SYMBOLS



GENERAL PIPING SYMBOLS



SHEET INDEX

H0.0	MECHANICAL SYMBOLS, ABBREVIATIONS AND SHEET INDEX
H0.1	MECHANICAL SITE PLAN (ALTERNATE BID)
H1.0	FIRST FLOOR MECHANICAL PLAN
H2.0	MECHANICAL DETAILS
H3.0	MECHANICAL SCHEDULES

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MECHANICAL SYMBOLS,
ABBREVIATIONS AND
SHEET INDEX

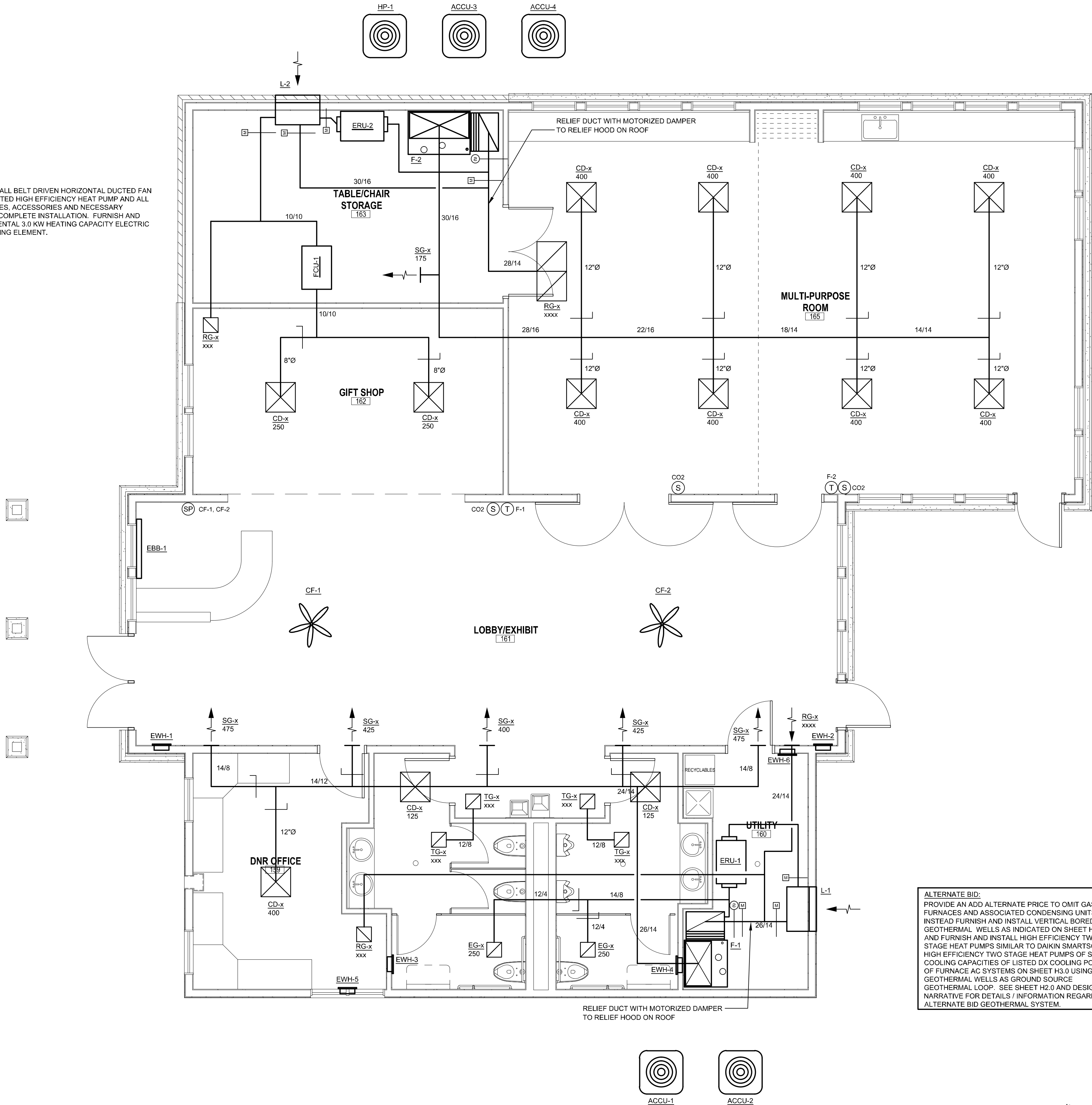


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H0.0

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FURNISH AND INSTALL BELT DRIVEN HORIZONTAL DUCTED FAN COIL AND ASSOCIATED HIGH EFFICIENCY HEAT PUMP AND ALL DUCTWORK, GRILLES, ACCESSORIES AND NECESSARY CONTROLS FOR A COMPLETE INSTALLATION. FURNISH AND INSTALL SUPPLEMENTAL 3.0 KW HEATING CAPACITY ELECTRIC RESISTANCE HEATING ELEMENT.



ALTERNATE BID:
PROVIDE AN ADD ALTERNATE PRICE TO OMIT GAS FIRED FURNACES AND ASSOCIATED CONDENSING UNITS AND INSTEAD FURNISH AND INSTALL VERTICAL BORED GEOTHERMAL WELLS AS INDICATED ON SHEET H0.1 AND FURNISH AND INSTALL HIGH EFFICIENCY TWO STAGE HEAT PUMPS SIMILAR TO DAIKIN SMARTSOURCE HIGH EFFICIENCY TWO STAGE HEAT PUMPS OF SIMILAR COOLING CAPACITIES OF LISTED DX COOLING PORTIONS OF FURNACE AC SYSTEMS ON SHEET H3.0 USING GEOTHERMAL WELLS AS GROUND SOURCE GEOTHERMAL LOOP. SEE SHEET H2.0 AND DESIGN NARRATIVE FOR DETAILS / INFORMATION REGARDING ALTERNATE BID GEOTHERMAL SYSTEM.

1 FIRST FLOOR MECHANICAL PLAN
1/4" = 1'-0"

DIMENSION
Madison Design Group

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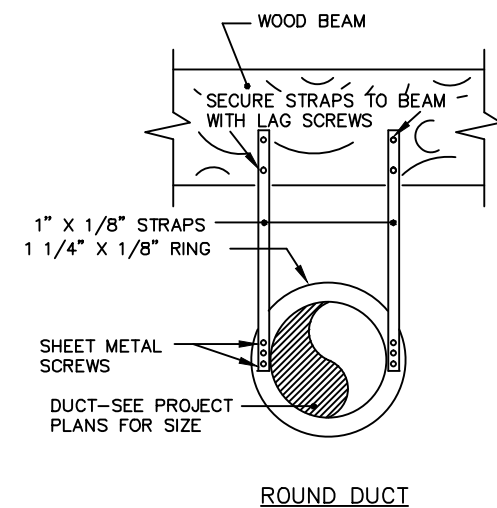
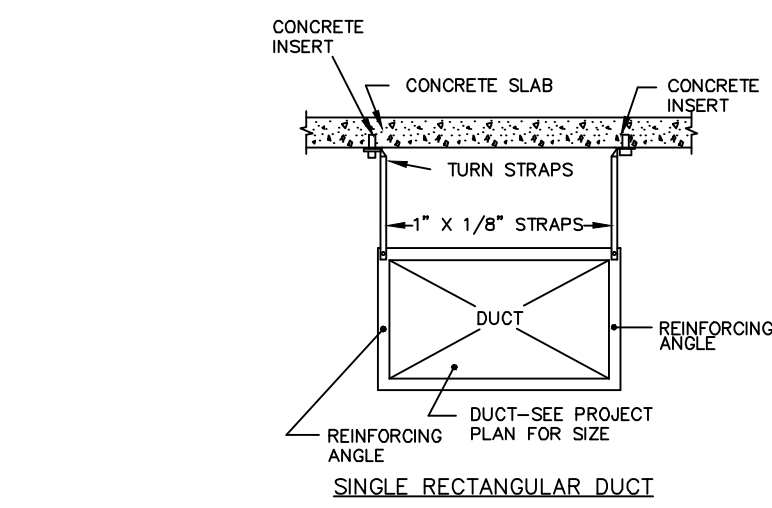
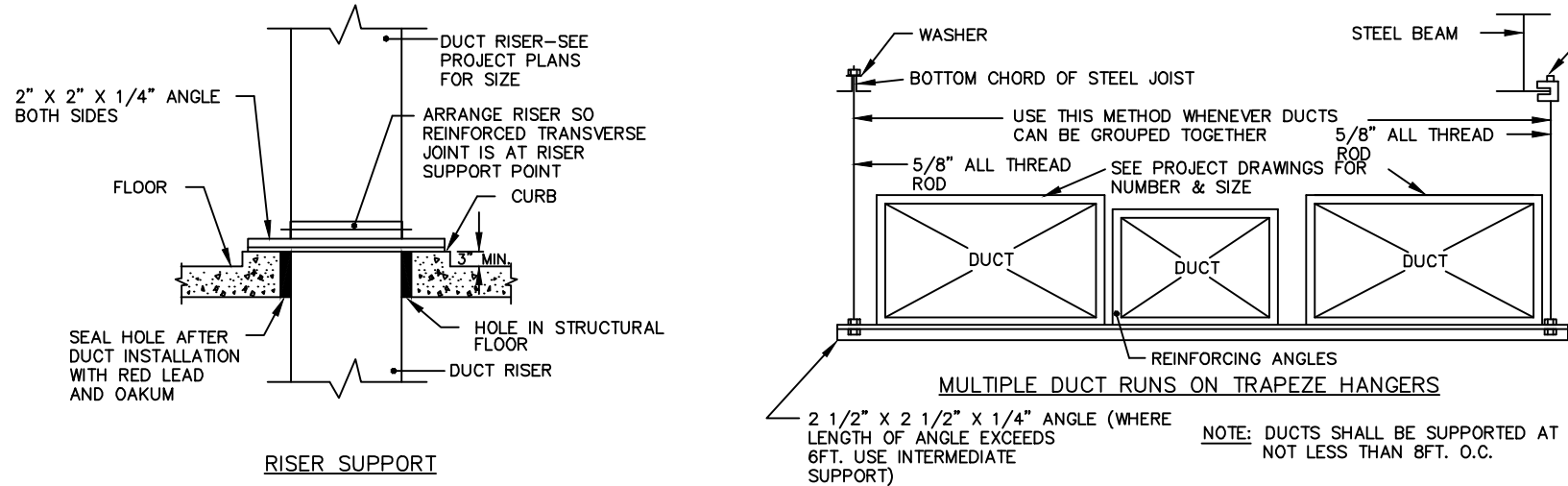
REVISIONS:

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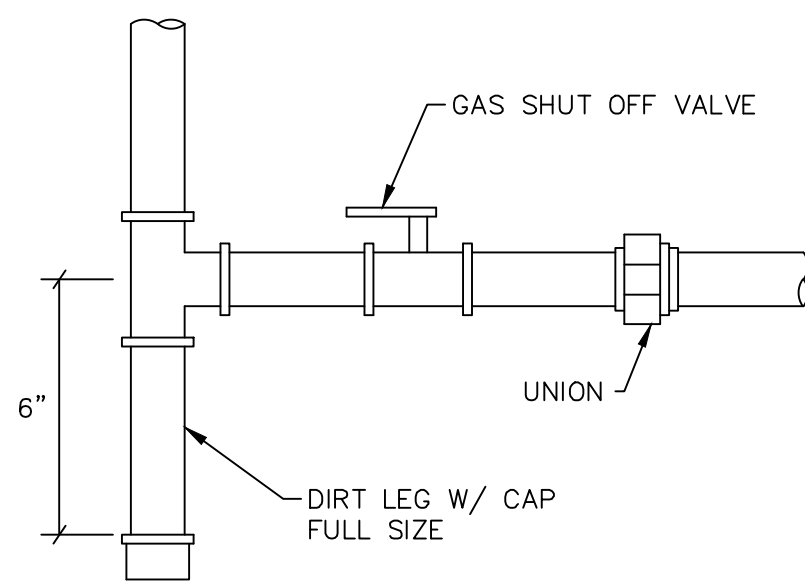
**FIRST FLOOR
MECHANICAL PLAN**

OTIE
Oneida Total Integrated Enterprises
5100 Eastpark Blvd., Suite 300, Madison, WI 53718, ph.
608-243-6470 Job# 2015072

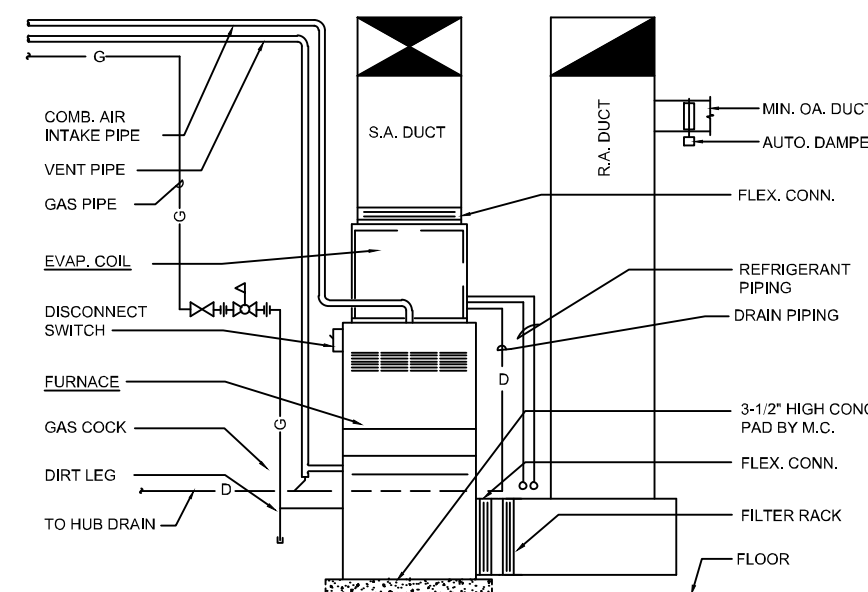
H1.0



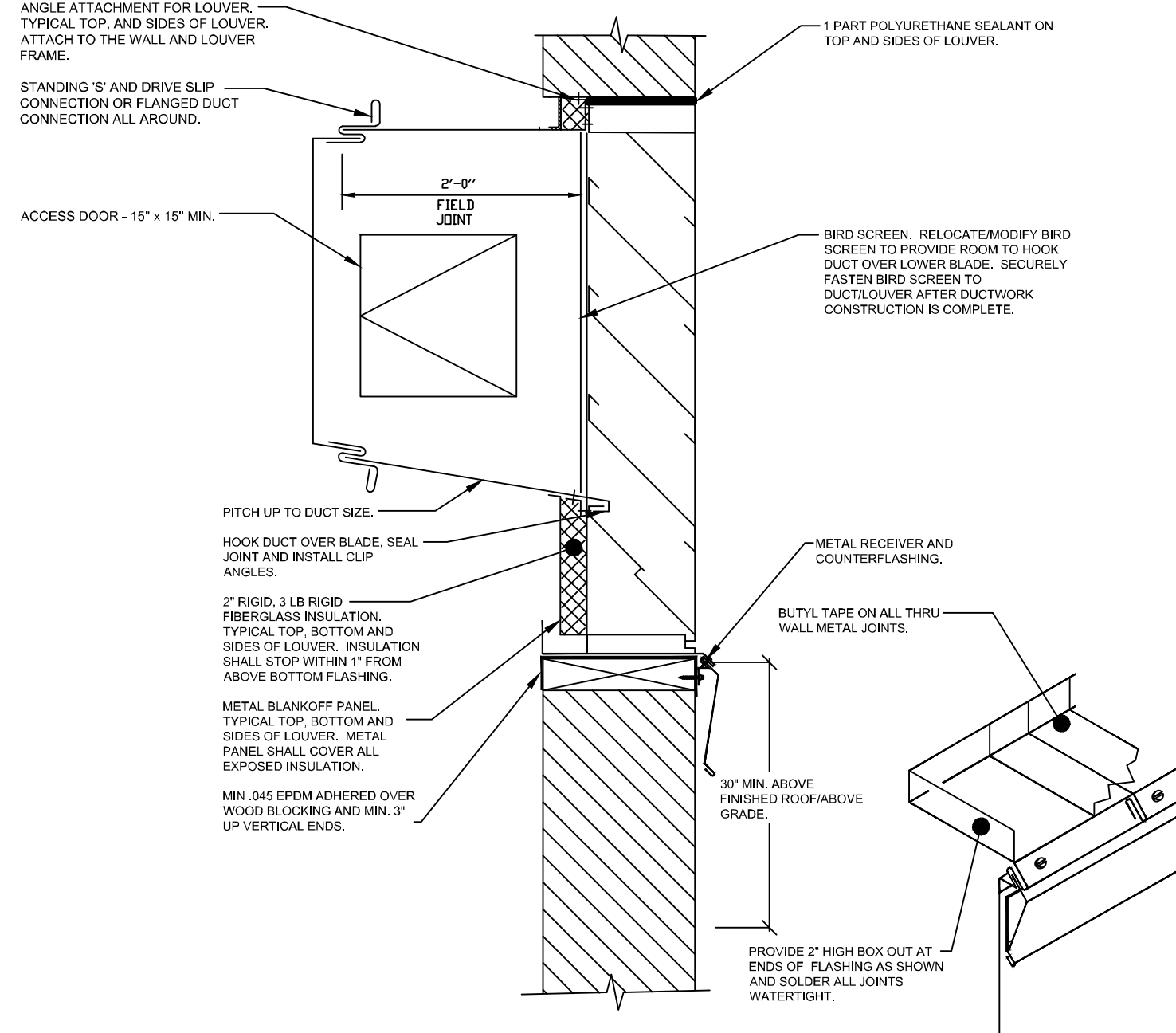
HANGER AND SUPPORT DETAILS FOR
DUCTWORK (UP TO 10" WG)
(VARIOUS METHODS OF ATTACHMENT)
NOT TO SCALE



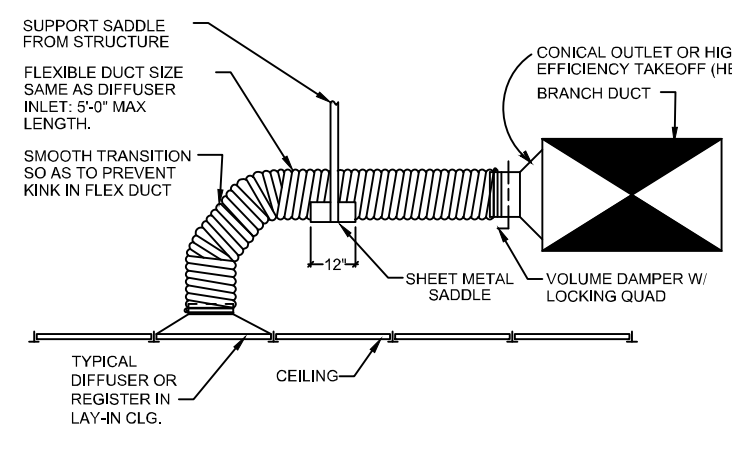
GAS PIPE DIRT LEG DETAIL
NO SCALE



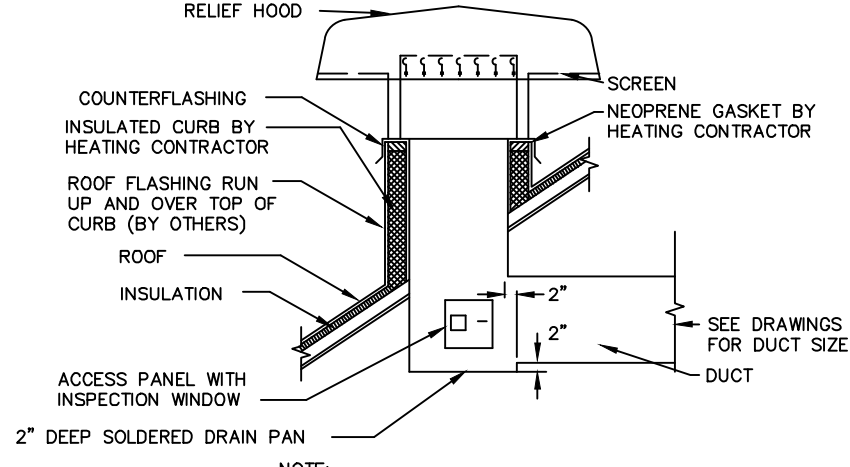
GAS-FIRED FURNACE DETAIL
NTS



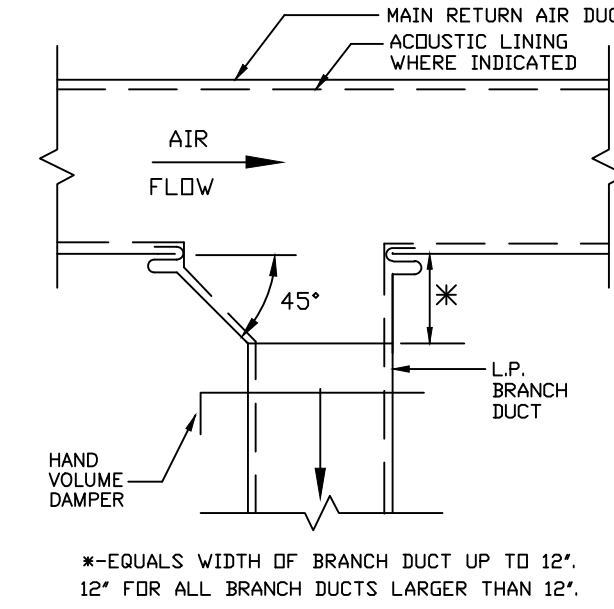
LOWER DETAIL
NTS



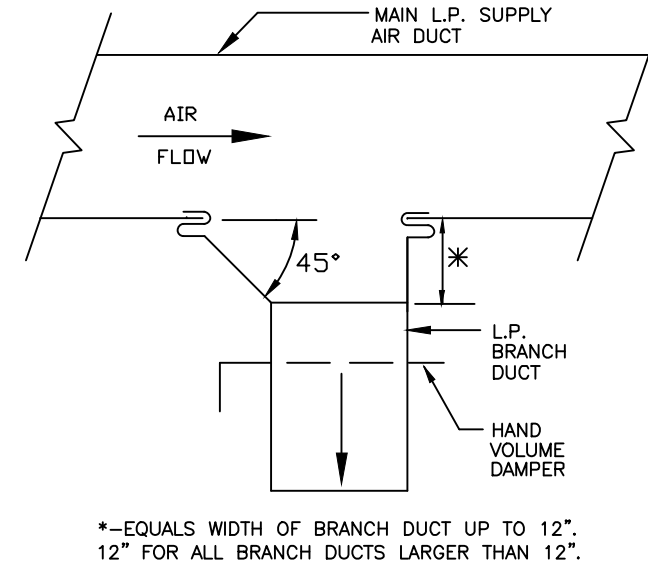
FLEXIBLE AIR DUCT CONNECTOR
NTS



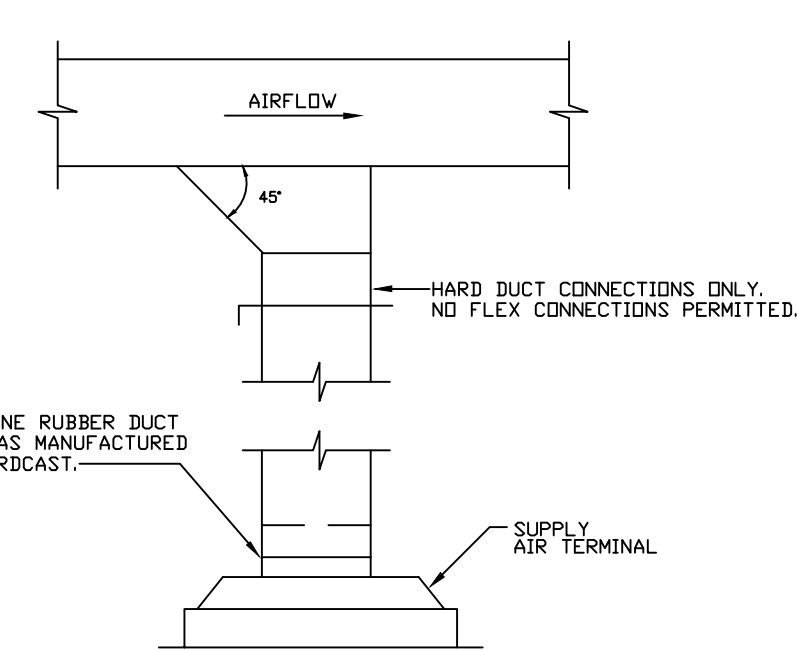
RELIEF HOOD
NO SCALE



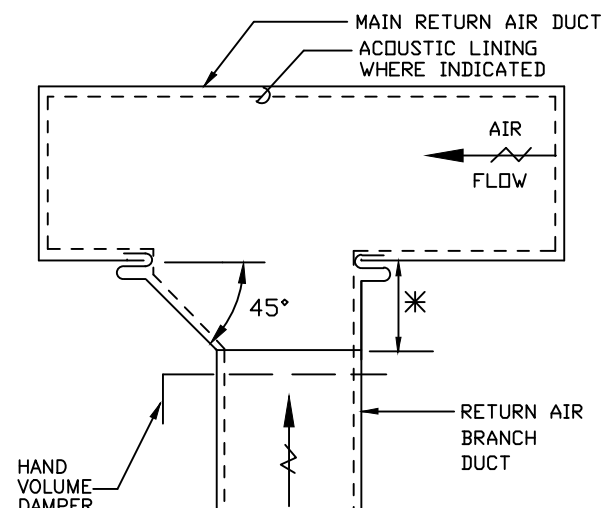
TYPICAL SUPPLY AIR
BRANCH DUCT TAKE-OFF
NOT TO SCALE



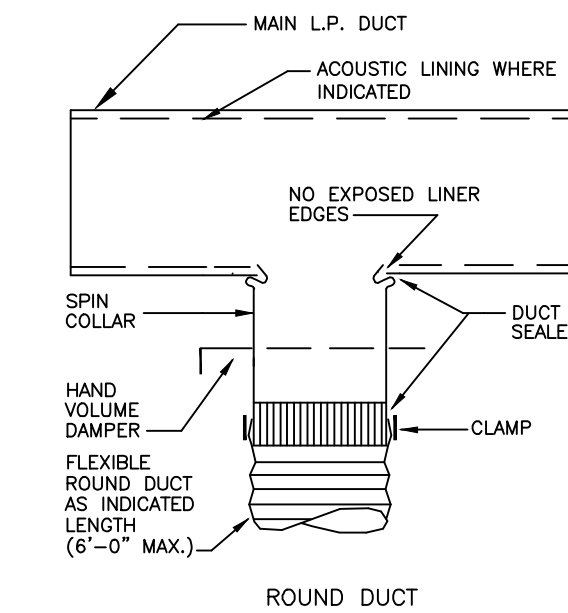
TYPICAL LOW PRESSURE
BRANCH DUCT TAKE-OFF
NOT TO SCALE



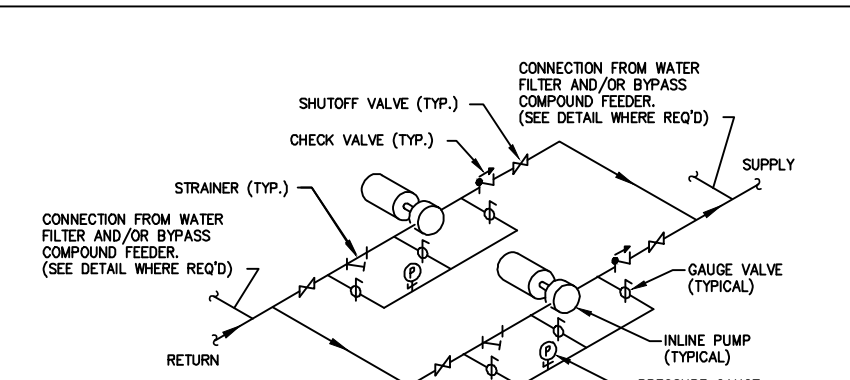
DUCT BRANCH TAKE-OFF DETAIL
NOT TO SCALE



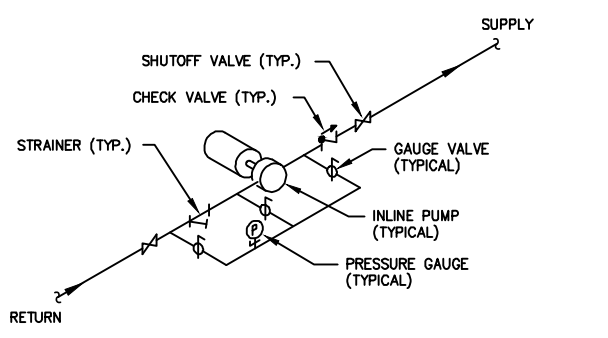
TYPICAL RETURN AIR
BRANCH DUCT TAKE-OFF
NOT TO SCALE



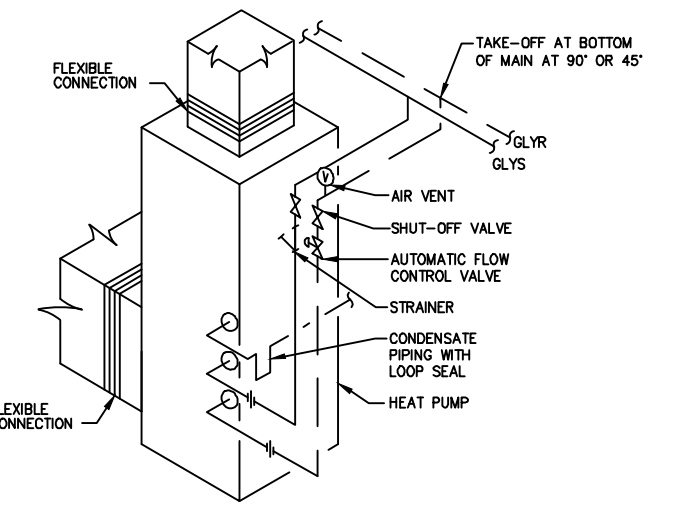
TYPICAL LOW PRESSURE
BRANCH DUCT TAKE-OFF
NOT TO SCALE



PARALLEL INLINE PUMP DETAIL
SCALE: NONE (P-2 & P-3)

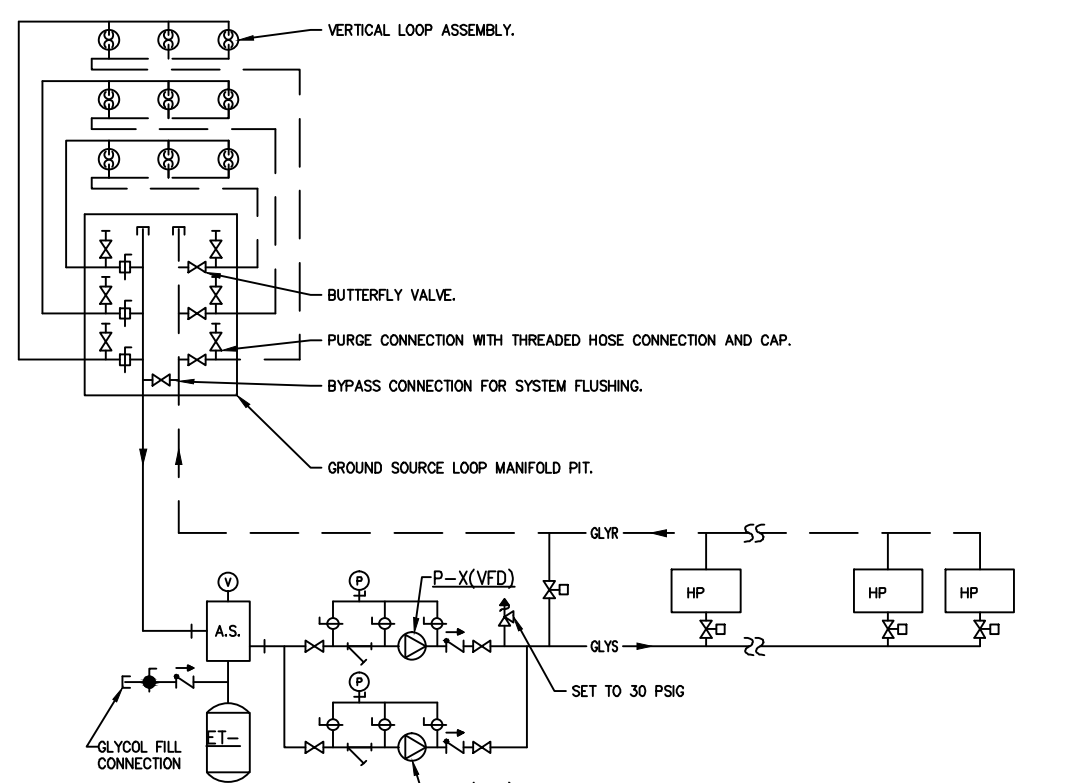


INLINE PUMP DETAIL
SCALE: NONE

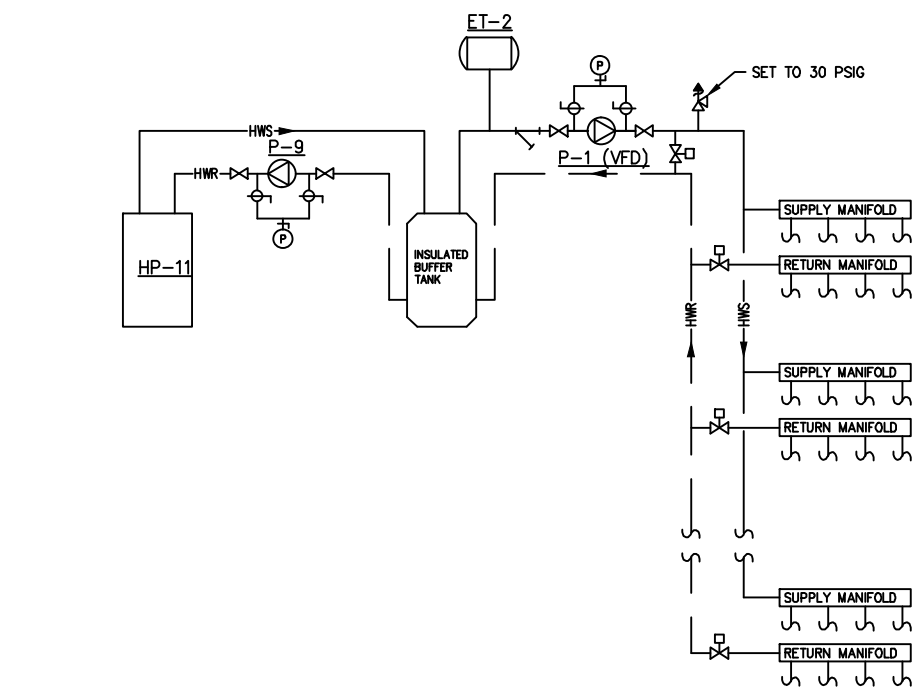


HEAT PUMP UNIT PIPING DETAIL
SCALE: NONE

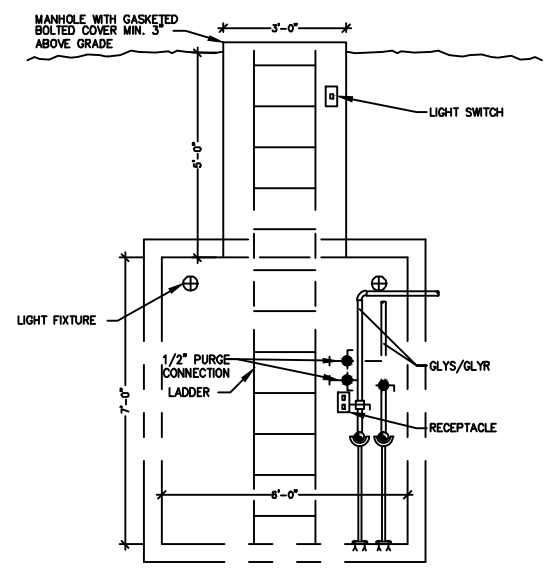
GEOTHERMAL SYSTEM ALTERNATE BID DETAILS



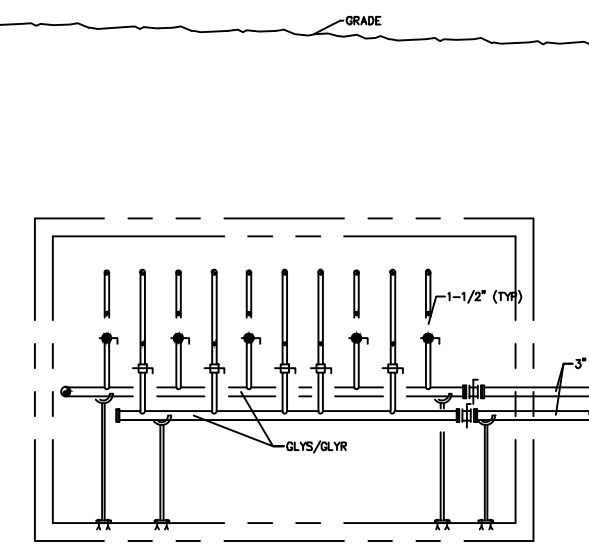
GROUND SOURCE HEAT PUMP HYDRONIC SYSTEM SCHEMATIC
SCALE: NONE



WATER TO WATER HEAT PUMP HYDRONIC SYSTEM
SCALE: NONE



GEOTHERMAL VAULT SECTION
SCALE: NONE



GEOTHERMAL VAULT SECTION
SCALE: NONE

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MECHANICAL DETAILS

GRILLE AND DIFFUSER SCHEDULE									
UNIT NO.	MANUFACTURER	MODEL	CFM RANGE	FACE SIZE	NECK SIZE	MATERIAL	FINISH	VOLUME DAMPER	REMARKS
CD-2	NAILOR	RNS	151 - 250	24" x 24"	8"	STEEL	WHITE	NO	STAMPED CLG DIFFUSER
CD-3	NAILOR	RNS	351 - 580	24" x 24"	12"	STEEL	WHITE	NO	STAMPED CLG DIFFUSER
CD-4	NAILOR	RNS	151 - 250	24" x 24"	8"	STEEL	WHITE	NO	2-WAY (90 DEGREES APPART)
SG-1	NAILOR	51DH	0 - 2000	26" X 26"	24" X 24"	ALUM	ALUM	YES	DOUBLE DEFLECTION
SG-2	NAILOR	61DH	0 - 100	12" X 8"	10" X 6"	STEEL	ALUM	YES	DOUBLE DEFLECTION
T-1	NAILOR	51EC	0 - 500	24" X 12"	22" X 10"	ALUM	WHITE	NO	EGGORATE
T-2	NAILOR	51EC	0 - 1000	24" X 24"	22" X 22"	ALUM	WHITE	NO	EGGORATE
T-3	NAILOR	51EC	0 - 250	12" X 12"	10" X 10"	ALUM	WHITE	NO	EGGORATE
EG-1	NAILOR	51EC	0 - 1000	12" X 12"	10" X 10"	ALUM	WHITE	NO	EGGORATE
EG-2	NAILOR	615SH	0 - 150	14" X 10"	12" X 8"	STEEL	WHITE	YES	SINGLE DEFLECTION
EG-3	NAILOR	615SH	0 - 855	26" X 12"	24" X 10"	ALUM	ALUM	YES	SINGLE DEFLECTION
EG-4	NAILOR	615SH	0 - 450	12" X 20"	10" X 18"	ALUM	ALUM	YES	SINGLE DEFLECTION

ELECTRIC BASEBOARD HEATER SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	LOCATION	LENGTH	ELECTRICAL DATA			T'STAT	MOUNTING	REMARKS
					KW	VOLTS	PHASE			
EBB-1	QMARK	QMKC	LOBBY	4'	1	120	1	INTEGRAL	WALL MTD	1,2

NOTES: 1. PROVIDE UNIT WITH INTEGRAL THERMOSTAT.
2. PROVIDE UNIT WITH INTEGRAL DISCONNECT SWITCH.

LOUVER SCHEDULE

UNIT NO.	LOCATION	SERVES	AIR FLOW (CFM)	USE	WIDTH (INCHES)	HEIGHT (INCHES)	P.D. (IN. WG)	REMARKS
L-1	EXT. WALL - EAST	F-1 O.A.	2,850	INTAKE	X	X	0.15	1
L-2	EXT. WALL - NORTH	F-2 O.A.	3,725	INTAKE	X	X	0.15	1

NOTES: 1. APPROVAL OF COLOR REQUIRED BY ARCHITECT PRIOR TO RELEASE OF EQUIPMENT.
2. ALIGN TOP OF LOUVER WITH TOP OF OVERHEAD DOOR.
3. INSTALL TOP OF LOUVER AT 10'-8" AFF.
4. INSTALL TOP OF LOUVER AT 9'-10" AFF.

ELECTRIC WALL HEATER SCHEDULE

UNIT NO.	MANUFACTURER	LOCATION	MODEL	ELECTRICAL DATA			T'STAT	MOUNTING	REMARKS
				KW	VOLTS	PHASE			
BWH-1	QMARK	VESTIBULE	LFK	3	208	1	INTEGRAL	RECESSED	1, 2, 3
BWH-2	QMARK	CORRIDOR 119	LFK	3	208	1	INTEGRAL	RECESSED	1, 2, 3
BWH-3	QMARK	WOMENS	AWH	1.5	208	1	INTEGRAL	RECESSED	1, 2, 3
BWH-4	QMARK	MENS	AWH	1.5	208	1	INTEGRAL	RECESSED	1, 2, 3
BWH-5	QMARK	DNR OFFICE	AWH	1.5	208	1	INTEGRAL	RECESSED	1, 2, 3
BWH-6	QMARK	UTILITY	AWH	1.5	208	1	INTEGRAL	RECESSED	1, 2, 3

NOTES: 1. PROVIDE UNIT WITH INTEGRAL TAMPER-RESISTANT THERMOSTAT.
2. PROVIDE UNIT WITH INTEGRAL DISCONNECT SWITCH.
3. FURNISH AND INSTALL UNIT RECESSED MOUNTING FRAME.

MOTORIZED DAMPER SCHEDULE

UNIT NO.	LOCATION	SERVES	WIDTH (INCHES)	HEIGHT (SQ. FT.)	ACTUATOR VOLTAGE	REMARKS
MD-1	F-1 ECONOMIZER	F-1	X	X	24	1,2
MD-2	F-1 MINIMUM O.A.	F-1	X	X	24	1,2
MD-3	F-1 EXHAUST / RELIEF	F-1	X	X	24	1,2
MD-4	F-1 RETURN	F-1	X	X	24	1,2
MD-5	F-2 ECONOMIZER	F-1	X	X	24	1,2
MD-6	F-2 MINIMUM O.A.	F-1	X	X	24	1,2
MD-7	F-2 EXHAUST / RELIEF	F-1	X	X	24	1,2
MD-8	F-2 RETURN	F-1	X	X	24	1,2

NOTES: 1. SEE DETAIL 2 ON H2.
2. PROVIDE THERMALLY INSULATED CONTROL DAMPER WITH SILICONE SIDE SEALS AND EPDM BLADE SEALS. TAMCO SERIES 9000 OR APPROVED EQUAL.

FURNACE SYSTEMS SCHEDULE

FURNACE DATA											CONDENSING UNIT DATA											REMARKS		
UNIT NO.	MANUFACTURER	MODEL	TOTAL CFM	O.A. CFM	E.S.P.	BLOWER H.P.	VOLTS	PHASE	HEATING MBH		UNIT NO.	MANUFACTURER	MODEL	CAPACITY TONS	COMPRESSOR		CONDENSER FANS		VOLTS	PHASE	SEER		MCA	MOP
									INPUT	OUTPUT					RLA	LRA	FLA							
F-1	REZNOR	CAUA-200	2850	675	1.2" W.C.	2	208	1	200	160	ACCU-1	CARRIER	24ANB136	3.0	15.3	83	1.8	208	1	21	21.1	30	1, 2, 3, 4, 5, 6, 7, 8	
											ACCU-2	CARRIER	24ANB148	4.0	21.2	104	2	208	1	21	29.2	40		
F-2	REZNOR	CAUA-250	3725	900	1.2" W.C.	3	208	1	250	200	ACCU-3	CARRIER	24ANB160	5.0	28.8	152.9	2.7	208	1	21	38.7	60	1, 2, 3, 4, 5, 6, 7, 8	
											ACCU-4	CARRIER	24ANB160	5.0	28.8	152.9	2.7	208	1	21	38.7	60		

NOTES: 1. PROVIDE FURNACE WITH 2" FILTER RACK.
2. PROVIDE UNIT WITH INTEGRAL DISCONNECT SWITCH.
3. PROVIDE WITH OPTIONAL BELT DRIVE MOTOR.
4. PROVIDE WITH BURNER ORIFICE FOR PROPANE GAS.
5. PROVIDE WITH 2 STAGE COMBINATION GAS VALVE.
6. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL COMBUSTION AIR INTAKE AND FURNACE VENTING DUCTING.
7. UNIT SHALL BE SEPARATED COMBUSTION.
8. FURNACE SHALL HAVE DUAL CIRCUITED DX COOLING COIL.
9. PROVIDE CONDENSING UNIT WITH POWERED CONVENIENCE OUTLET.

FANCOIL SYSTEMS SCHEDULE

FAN COIL DATA										HEAT PUMP UNIT DATA										REMARKS				
UNIT NO.	MANUFACTURER	MODEL	TOTAL CFM	O.A. CFM	E.S.P.	BLOWER H.P.	VOLTS	PHASE	HEATING MBH		UNIT NO.	MANUFACTURER	MODEL	CAPACITY TONS	COMPRESSOR		CONDENSER FANS		VOLTS		PHASE	SEER	MCA	MOP
															RLA	LRA	FLA							
FCU-1	CARRIER	INFINITY FE4	500	100	0.6	0.5 HP	208	1	18		HP-1	CARRIER	25VNA0	2.0	11.1	58.3	1.8		208	1	21	15.7	25	1, 2, 3, 4

NOTES: 1. PROVIDE FAN COIL WITH 2" FILTER RACK.
2. PROVIDE UNIT WITH INTEGRAL DISCONNECT SWITCH.
3. PROVIDE WITH OPTIONAL BELT DRIVE MOTOR.
4. HEAT PUMP WITH POWERED CONVENIENCE OUTLET.

GROUND SOURCE HEAT PUMP SYSTEMS SCHEDULE (ALTERNATE BID)

HEAT PUMP DATA											COMPRESSOR UNIT DATA													REMARKS
UNIT NO.	MANUFACTURER	MODEL	TOTAL CFM	O.A. CFM	E.S.P.	BLOWER H.P.	VOLTS	PHASE	HEATING MBH		UNIT NO.	MANUFACTURER	MODEL	CAPACITY TONS	COMPRESSOR		VOLTS	PHASE	SEER	MCA	MOP			
															RLA	LRA								
GHP-1	DAIKIN	WGTV0721	2000	675	1.2" W.C.	2	208	1		57	INTEGRAL	DAIKIN	24ANB136	6.0	29.7	179.2	208	1	21	46.6	60	1, 2, 3, 4		
GHP-2	DAIKIN	WGTV0721	1860	450	1.2" W.C.	2	208	1		57	INTEGRAL	DAIKIN	24ANB136	6.0	29.7	179.2	208	1	21	46.6	60	1, 2, 3, 4		
GHP-3	DAIKIN	WGTV0721	1860	450	1.2" W.C.	2	208	1		57	INTEGRAL	DAIKIN	24ANB136	6.0	29.7	179.2	208	1	21	46.6	60	1, 2, 3, 4		

NOTES: 1. PROVIDE HEAT PUMP WITH 2" FILTER RACK.
2. PROVIDE UNIT WITH INTEGRAL DISCONNECT SWITCH.
3. PROVIDE WITH OPTIONAL BELT DRIVE MOTOR.
4. UNIT SHALL BE HIGH EFFICIENCY TWO STAGE MODEL.

MOTOR STARTER SCHEDULE

ITEM NO.	EQUIPMENT		ELECTRICAL DATA							STARTER DESCRIPTION			REMARKS
	DESCRIPTION	LOCATION	H.P.	VOLTS	PHASE	KW	AMPS			FURNISHED BY	LOCATION	TYPE	
							FLA	MCA	MOP				
F-1	FURNACE	UTILITY	2	208	1					ELECTRICIAN	UNIT MTD	NON-FUSED DISCONNECT SWITCH	
F-2	FURNACE	STORAGE	0	0	0					ELECTRICIAN	UNIT MTD	NON-FUSED DISCONNECT SWITCH	
ACCU-1	AIR COOLED CONDENSING UNIT	EXT. ON GRADE	208	1			21.1	30		ELECTRICIAN	SOUTH WALL OF MECHANICAL RM	COMB. STARTER/DISCONNECT	NBMA 4
ACCU-2	AIR COOLED CONDENSING UNIT	EXT. ON GRADE	208	1			29.2	40		ELECTRICIAN	SOUTH WALL OF MECHANICAL RM	COMB. STARTER/DISCONNECT	NBMA 4
ACCU-3	AIR COOLED CONDENSING UNIT	EXT. ON GRADE	208	1			38.7	60		ELECTRICIAN	SOUTH WALL OF MECHANICAL RM	COMB. STARTER/DISCONNECT	NBMA 4
ACCU-4	AIR COOLED CONDENSING UNIT	EXT. ON GRADE	208	1			38.7	60		ELECTRICIAN	SOUTH WALL OF MECHANICAL RM	COMB. STARTER/DISCONNECT	NBMA 4
ERU1	ENERGY RECOVERY UNIT	UTILITY	208	1			11.5	15		EQUIPMENT MFG	UNIT MTD	FUSED DISCONNECT SWITCH	
ERU-2	ENERGY RECOVERY UNIT	STORAGE	208	1			11.5	15		EQUIPMENT MFG	UNIT MTD	FUSED DISCONNECT SWITCH	
EBB-1	ELECTRIC BASEBOARD	LOBBY	120	1	1					EQUIPMENT MFG	UNIT MTD	NON-FUSED DISCONNECT SWITCH	
BWH-1	ELECTRIC WALL HEATER	LOBBY	208	1	3					EQUIPMENT MFG	UNIT MTD	NON-FUSED DISCONNECT SWITCH	
BWH-2	ELECTRIC WALL HEATER	LOBBY	208	1	3					EQUIPMENT MFG	UNIT MTD	NON-FUSED DISCONNECT SWITCH	
BWH-3	ELECTRIC WALL HEATER	WOMENS	208	1	1.5					EQUIPMENT MFG	UNIT MTD	NON-FUSED DISCONNECT SWITCH	
BWH-4	ELECTRIC WALL HEATER	MENS	208	1	1.5					EQUIPMENT MFG	UNIT MTD	NON-FUSED DISCONNECT SWITCH	
BWH-5	ELECTRIC WALL HEATER	DNR OFFICE	208	1	1.5					EQUIPMENT MFG	UNIT MTD	NON-FUSED DISCONNECT SWITCH	
BWH-6	ELECTRIC WALL HEATER	UTILITY	208	1	1.5					EQUIPMENT MFG	UNIT MTD	NON-FUSED DISCONNECT SWITCH	
CF-1	CEILING FAN	AMBULANCE GARAGE	120	1		0.75				ELECTRICIAN	NEAR CEILING FAN - OUTSIDE FAN RADIUS	NON-FUSED DISCONNECT SWITCH	
CF-2	CEILING FAN	AMBULANCE GARAGE	120	1		0.75				ELECTRICIAN	NEAR CEILING FAN - OUTSIDE FAN RADIUS	NON-FUSED DISCONNECT SWITCH	

ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	GAL	GALLON	PA	PASCAL
AD	AREA DRAIN	GCO	GRADE CLEANOUTS	PD	PRESSURE DROP OR DIFFERENCE
ACW	AUTOMATIC CLOTHES WASHER	GPD	GALLONS PER DAY	PDI	PLUMBING AND DRAINAGE INSTITUTE
AFF	ABOVE FINISH FLOOR	GPH	GALLONS PER HOUR	PG	PRESSURE GAGE
AFG	ABOVE FINISH GRADE	GPM	GALLONS PER MINUTE	PP	PLUMBING PUMP
AG	AIR GAP	GPR	GAS PRESSURE REGULATOR	PPM	PARTS PER MILLION
AP	ACCESS PANEL	GRS	GAS REGULATOR STATION	PRS	PRESSURE REDUCING STATION
AS	AUTOMATIC SPRINKLER	GT	GREASE TRAP	PRV	PRESSURE REDUCING VALVE
ASD	ADJUSTABLE SPEED DRIVES	GVTR	GAS VENT THROUGH ROOF	PSI	POUNDS PER SQUARE INCH
ASD	AUTOMATIC SPRINKLER DRAIN	GW	GAS FIRED WATER HEATER	PSIA	POUNDS PER SQUARE INCH ATMOSPHERE
ASME	AMERICAN SOCIETY MECHANICAL ENGINEERS			PSIG	POUNDS PER SQUARE INCH GAUGE
ASPE	AMERICAN SOCIETY PLUMBING ENGINEERS	H&CW	HOT AND COLD WATER	PTRV	PRESSURE TEMPERATURE RELIEF VALVE
ASR	AUTOMATIC SPRINKLER RISER	HB	HOSE BIBB	PW	POTABLE WATER
AV	ACID VENT	HD	HUB DRAIN		
AW	ACID WASTE	HEX	HEAT EXCHANGER	RD	ROOF DRAIN
		HP	HORSEPOWER	RDL	ROOF DRAIN LEADER
BFP	REDUCED PRESSURE BACKFLOW PREVENTER	HS	HAND SINK	RL	ROOF LEADER
BHP	BREAK HORSEPOWER	HST	HOT WATER STORAGE TANK (DOMESTIC)	RO	REVERSE OSMOSIS WATER
BSP	BLACK STEEL PIPE	HWB	HOT WATER BOILER	RWL	RAIN WATER LEADER
BT	BATHTUB	HWP	HOT WATER PUMP		
BTU	BRITISH THERMAL UNIT	HYD	HYDRANT	SAN	SANITARY SEWER
BTUH	BRITISH THERMAL UNIT PER HOUR			SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
		ICW	INDUSTRIAL COLD WATER	SCFM	STANDARD CUBIC FOOT/MINUTE
C	CELSIUS	INV	INVERT	SCW	SOFTENED COLD WATER
CB	CATCH BASIN	IPC	INTERNATIONAL PLUMBING CODE	SDMH	STORM DRAIN MANHOLE
CGA	COMPRESSED GAS ASSOCIATION	IRW	IRRIGATION WATER	SP	SUMP PUMP
CI	CAST IRON	IW	INDIRECT WASTE	SPR	SPRINKLER LINE
CO	CLEANOUT	IWH	INSTANTANEOUS WATER HEATER	SQFT	SQUARE FEET
CP	HOT WATER CIRCULATING PUMP	IWR	INDUSTRIAL WATER RETURN	SS	STAINLESS STEEL
CS	CLINICAL SINK	IWS	INDUSTRIAL WATER SUPPLY	ST	STORAGE TANK
CV	CONTROL VALVE			SW	STORM WATER
		KW	KILOWATT	TCV	TEMPERATURE CONTROL VALVE
DCW	DOMESTIC COLD WATER	KWHR	KILOWATT-HOUR	TD	TEMPERATURE DIFFERENCE
DHW	DOMESTIC HOT WATER			TD	TRENCH DRAIN
DHWR	DOMESTIC HOT WATER RETURN	L/S	LITER PER SECOND	TDH	TOTAL DYNAMIC HEAD
DHWR	DOMESTIC WATER RETURN	LA	LABORATORY AIR	TEMP	TEMPERATURE
DHWS	DOMESTIC HOT WATER SUPPLY	LAV	LAVATORY	TMV	THERMOSTATIC MIXING VALVE
DI	DEIONIZED WATER	LBS/HR	POUNDS PER HOUR	TP	TRAP PRIMER
DN	DOWN	LCW	LABORATORY COLD WATER	TSTAT	THERMOSTAT
DOE	DEPARTMENT OF ENERGY	LHW	LABORATORY HOT WATER	TWR	TEMPERED WATER RETURN
DS	DOWNSPOUT	LNG	LIQUID NATURAL GAS	TWS	TEMPERED WATER SUPPLY
DW	DISHWASHER	LOX	LIQUID OXYGEN	TYP	TYPICAL
DWG	DRAWING	LV	LABORATORY VACUUM		
DWH	DOMESTIC WATER HEATER	LW	LOW WATER	UPC	UNIFORM PLUMBING CODE
DWR	DRINKING WATER RETURN				
DWS	DRINKING WATER SUPPLY	M	METER	V	VENT
DWV	DRAIN WASTE VENT	MA	MEDICAL AIR	VAC	VACUUM
		MAV	MANUAL AIR VENT	VB	VACUUM BREAKER
EL	ELEVATION	MBH	1000 BTUH	VCO	VACUUM CLEANER OUTLET
EMCS	ENERGY MONOSERRAT AND CENTRAL SYSTEM	MED	MEDICAL	VP	VACUUM PUMP
EPA	ENVIRONMENTAL PROTECTION AGENCY	MER	MECHANICAL EQUIPMENT ROOM	VS	VENT STACK
EPACT	ENERGY POLICY ACT	MH	MANHOLE	VTR	VENT THROUGH ROOF
ESC	ESCUTCHEON	MOU	MEMORANDUM OF UNDERSTADING		
ESH	EMERGENCY SHOWER	MB	MOP SERVICE BASIN	W	WASTE
ET	EXPANSION TANK	MV	MEDICAL VACUUM	WC	WATER CLOSET
EWC	ELECTRIC WATER COOLER			WCO	WALL CLEANOUT
EWC	ELECTRIC WATER COOLER	N2	NITROGEN	WG	WATER GAGE
EW	ELECTRIC WATER HEATER	N2O	NITROUS OXIDE	WH	WALL HYDRANT
EWS	EYE WASH STATION	NC	NORMALLY CLOSED	WH	WATER HEATER
EX	EXISTING	NG	NATURAL GAS	WHA	WATER HAMMER ARRESTER
		NIC	NOT IN CONTRACT	WL	WATER LINE
F	FAHRENHEIT	NO	NORMALLY OPEN	WM	WATER METER
FCO	FLOOR CLEANOUT	NOM.	NOMINAL	WPD	WATER PRESSURE DROP
FCW	FILTERED COLD WATER	NPW	NON POTABLE WATER	WS	WASTE STACK
FD	FLOOR DRAIN	NTS	NOT TO SCALE		
FDC	FIRE DEPARTMENT (HOSE) CONNECTION			YCO	YARD CLEANOUT
FM	FLOW METER			YH	YARD HYDRANT
FOP	FUEL OIL PUMP	O2	OXYGEN		
FOR	FUEL OIL RETURN	OC	ON CENTER		
FOS	FUEL OIL SUPPLY	OD	OUTSIDE DIAMETER		
FOV	FUEL OIL VENT	OFD	OVERFLOW DRAIN		
FS	FLOOR SINK	OR	OPERATING ROOM		
FS	FLOW SWITCH	OVFL	OVERFLOW		
FU	FIXTURE UNITS				

PLUMBING PIPING SYMBOLS

	TOP CONNECTION, 45° OR 90°
	BOTTOM CONNECTION, 45° OR 90°
	SIDE CONNECTION
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	PIPE UP
	PIPE DOWN
	DOMESTIC COLD WATER, COLD WATER
	DOMESTIC HOT WATER, HOT WATER
	DOMESTIC HOW WATER RETURN, HOT WATER RETURN
	SANITARY SEWER, BELOW GRADE
	VENT PIPING
	ISOLATION VALVE
	CHECK VALVE

SHEET INDEX

P0.0	SYMBOLS, ABBREVIATIONS AND SHEET INDEX
P1.0	UNDERFLOOR PLAN — PLUMBING
P2.0	FIRST FLOOR PLAN — PLUMBING
P3.0	WASTE AND VENT ISOMETRIC
P4.0	WATER SUPPLY ISOMETRIC
P5.0	SCHEDULES AND DETAILS



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AZTALAN, WI

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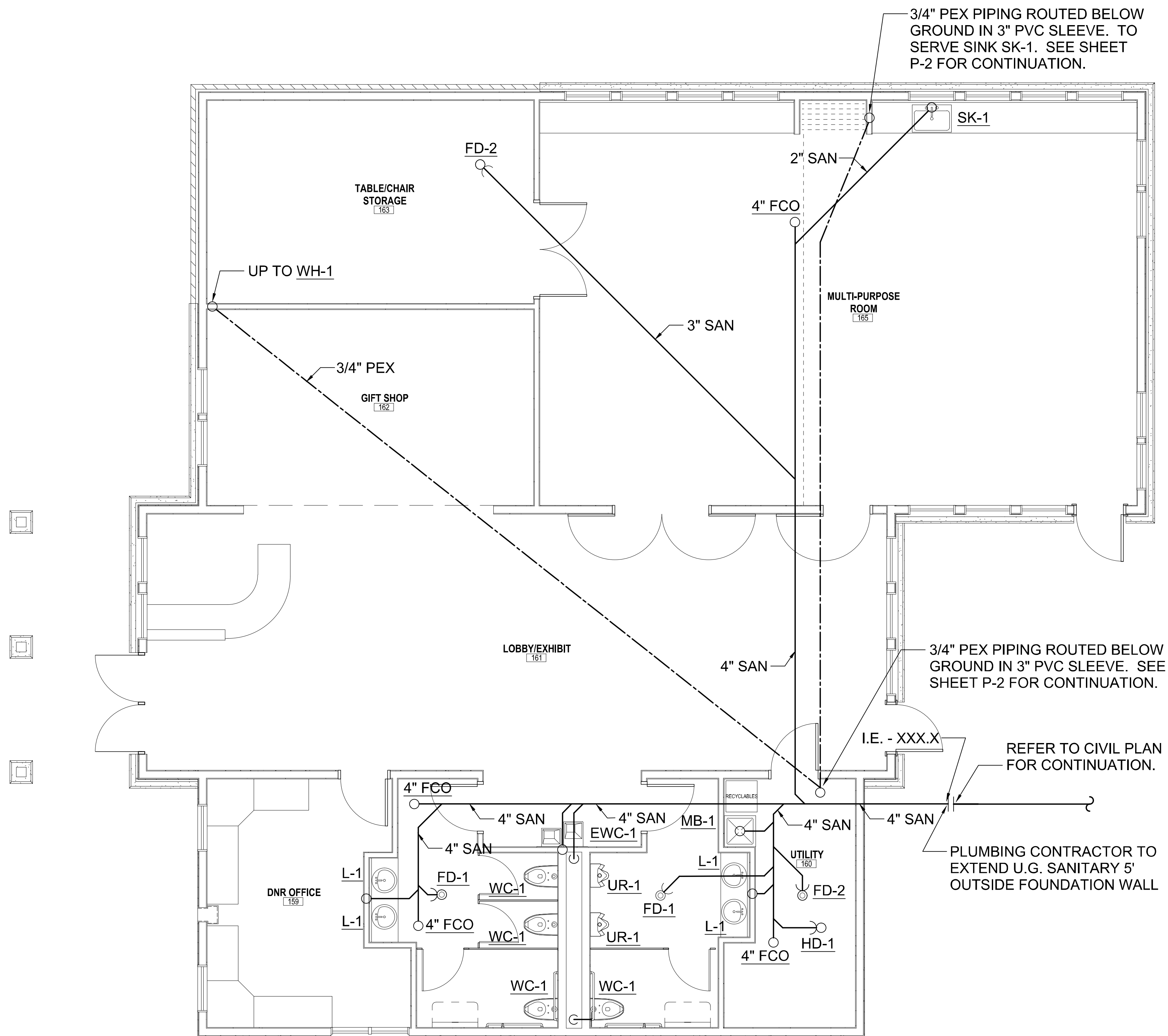
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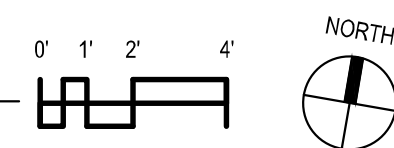
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1 UNDERGROUND PLUMBING PLAN
1/4" = 1'-0"



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AZTALAN, WI

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UNDERGROUND PLUMBING PLAN

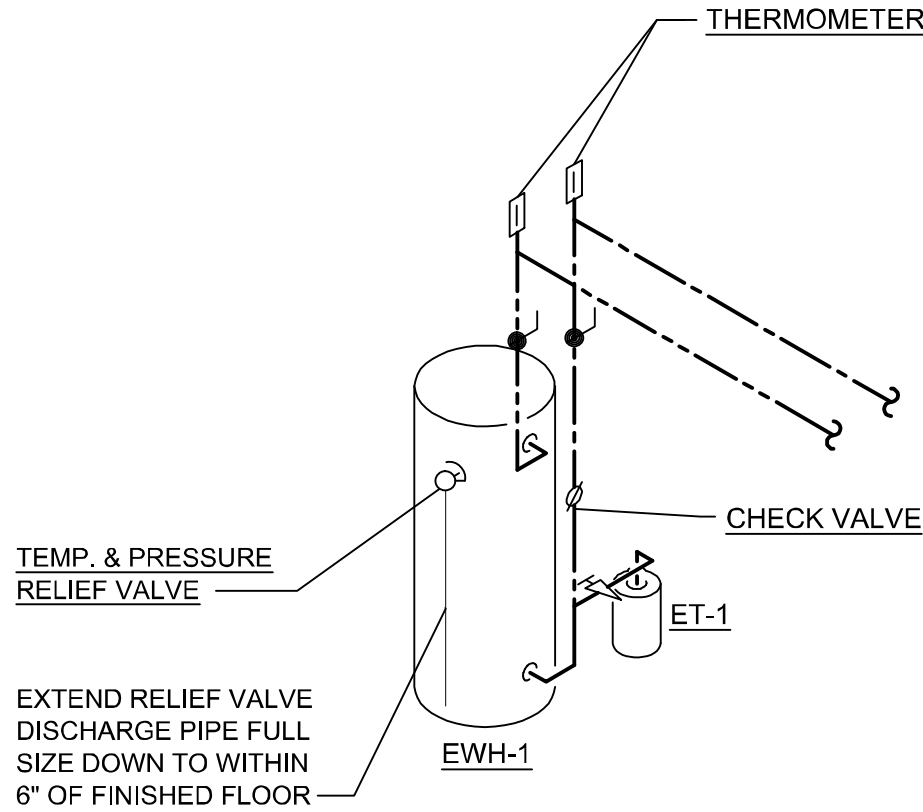
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AZTALAN, WI

[illegible]

FIRST FLOOR PLUMBING PLAN





WATER HEATER PIPING DETAIL
NO SCALE

PLUMBING FIXTURE SCHEDULE

WC-1	ADA WATER CLOSET, WALL MOUNTED, MANUAL FLUSH VALVE TYPE, WHITE VITREOUS CHINA, ELONGATED BOWL, 16-1/2" RIM HEIGHT, PRESSURE ASSISTED SIPHON JET FLUSH ACTION. FLUSH LEVER SHALL BE ON WIDE SIDE OF STALL. ACCEPTABLE MANUFACTURERS: KOHLER K-432S, AMERICAN STANDARD, CRANE. SEAT, EXTRA HEAVY, OPEN FRONT, SOLID ANTI-MICROBIAL PLASTIC, WHITE SELF-SUSTAINING CHECK HINGE, AND STAINLESS STEEL POSTS AND NUTS. CARRIER Z1203-N. ACCEPTABLE MANUFACTURERS: KOHLER K-4731-C, BEMIS, BENEKE, OLSONITE
L-1	LAVATORY, OVAL DECK MOUNTED, WHITE VITREOUS CHINA, 20" X 17", 3 HOLE AT 4" CENTERS, PROVIDE BRASS SUPPLIES LOOSE KEY SUPPLIES, 1-1/4" BRASS P-TRAP WITH CLEANOUT PLUG AND OFFSET TAILPIECE. ACCEPTABLE MANUFACTURERS: AMERICAN STANDARD 0475.028, KOHLER K-2196-4, ELJER 051-0124. LAVATORY TRIM, SINGLE LEVER MIXING FAUCET, AERATOR, CHROME PLATED, 4" CENTERS, PERFORATED DRAIN GRATE. INSTALLATION SHALL BE IN COMPLIANCE WITH ADA SECTION 4.19. ACCEPTABLE MANUFACTURERS: MOEN L4621, DELTA, CHICAGO FAUCET, T&S BRASS. PROVIDE PRE-MANUFACTURED TRAP AND SUPPLY INSULATION KIT. FIELD FABRICATION COVERING IS NOT ACCEPTABLE. ACCEPTABLE MANUFACTURERS: TRUEBRO "HANDI-LAV GUARD", MCQUIRE "PROWRAP", BROCAR "TRAPWRAP".
UR-1	URINAL, WALL MOUNT, WHITE VITREOUS CHINA, MANUAL FLUSH VALVE, WASHOUT FLUSH STYLE, ELONGATED RIM, 3/4" TOP SPUD, 2" OUTLET, STAINER W/ STAINLESS STEEL BEEHIVE GRATE. ACCEPTABLE MANUFACTURERS: KOHLER K-4904-ET, AMERICAN STANDARD FLUSH VALVE, BATTERY POWERED, SENSOR ACTIVATED, CHROME PLATED, WALL AND SPUD ESCUTCHEON, 1.0 GAL PER FLUSH. CARRIER Z 1221. ACCEPTABLE MANUFACTURERS: SLOAN 8186, DELANY, ZURN
EW-C-1	ELKAY EZSTL8SC BI-LEVEL ELECTRIC WEATER COOLER. KEENEY 300CP 1-1/4" P-TRAP. BRASS CRAFT KTSCR14XC 1/2" X 3/8" COMPRESSION STOP W/LOOSE KEY.
SK-1	STAINLESS STEEL (ACCESSIBLE), DOUBLE COMPARTMENT WITH FAUCET DECK, 18 GA, TYPE 304 SELF RIMMING, 33" X 21" X 6-1/2". COMPLETELY UNDERCOATED, 3-1/2" DIAMETER OFFSET DRAIN, PERFORATED STAINLESS STEEL STRAINER, 1-1/2" 17 GA CHROME PLATED BRASS TAILPIECE. CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, 3/8" BRASS ANGLE SUPPLIES WITH SOFT COPPER RISERS. FURNISH AND INSTALL SAND/ PLASTER TRAP. ACCEPTABLE MANUFACTURERS: ELKAY GECR3318 SINK TRIM, TWO HANDLE MIXING FAUCET, LEVER HANDLE, SWIVEL AERATOR AND SPRAY, MATCHING FINISH SIDE SPRAY. CHROME PLATED 10" SWING SPOUT, ALL BRASS CONSTRUCTION. ACCEPTABLE MANUFACTURERS: CHICAGO FAUCET MODEL 1100
MB-1	MOB BASIN, MOLDED STONE, 24" X 24" X 10", WHITE, STAINLESS STEEL DRAIN, 3" OUTLET, PROVIDE MOP HANGER, HOSE AND HOSE BRACKET. PROVIDE FRP PANELS TO TWO WALL SURFACES ABOVE MOP BASIN. ACCEPTABLE MANUFACTURERS: FIAT MSB-2424, ZURN, WILLIAMS, MUSTEE SERVICE FAUCET, TWO HANDLE MIXING FAUCET, CHROME PLATED, INTEGRAL VACUUM BREAKER, INTEGRAL STOPS, PAIL HOOK, 3/4" MALE HOSE THREAD SPOUT. PROVIDE HOSE END VACUUM BREAKER ACCEPTABLE MANUFACTURERS: CHICAGO FAUCET 897, T&S BRASS, ZURN.

PLUMBING SPECIALTIES

WH-1	HOSE BIBB, EXTERIOR, FREEZELESS, AUTODRAINING, VACUUM BREAKER, BRASS BODY, CHROME PLATED FACE, WALL CLAMP, 3/4" MALE HOSE THREAD, LOOSE-KEY OPERATOR. ACCEPTABLE MANUFACTURERS: WOODFORD 67, ZURN Z-1310, WADE-8620.
ET-1	THERMAL EXPANSION TANK WESSELS MODEL 25 TX
FD-1	FLOOR DRAIN, 6" DIA, CHROME PLATED BRONZE ADJUSTABLE TOP, CAST-IRON BODY, THREADED FLASHING COLLAR, 3" OUTLET. ACCEPTABLE MANUFACTURERS: SMITH 2000, ZURN Z415, WADE W-1100.
FD-2	FLOOR DRAIN, 9" DIA, NICKEL BRONZE ADJUSTABLE TOP, ACID RESISTING EPOXY COATED CAST-IRON BODY, THREADED FLASHING COLLAR, 3" OUTLET. ACCEPTABLE MANUFACTURERS: SMITH 2000, ZURN Z550, WADE W-1100.
WCO-1	WALL CLEANOUT, BODY AND PLUG SHALL BE OF SAME MATERIAL AS PIPE WITH ROUND STAINLESS STEEL COVER PLATE AND CENTER SCREW INTO PLUG.
FCO-1	FLOOR CLEANOUT, ROUND, NICKEL BRONZE ADJUSTABLE SCORIATED SECURED TOP, CAST IRON BODY AND PLUG, OUTLET SIZE SHALL MATCH PIPE SIZE. "CO" SHALL BE CAST IN TOP. ACCEPTABLE MANUFACTURERS: SMITH 4020, ZURN, WADE.

PLUMBING EQUIPMENT SCHEDULE

EW-H-1	ELECTRIC WATER HEATER, MEETS ASHRAE 90.1 EFFICIENCY STANDARDS, 21 GPH RECOVERY CAPACITY @ 90 F TEMP RISE. 19 U.S. GALLON STORAGE CAPACITY. DUAL 4.5 KW HEATING ELEMENTS FOR NON-SIMULTANEOUS OPERATION. ACCEPTABLE MANUFACTURERS: BRADFORD WHITE, BOCK, LOCHINVAR.
EW-H-2	ELECTRIC TANKLESS WATER HEATER, 56 DEGREE TEMPERATURE RISE AT 0.5 GPM WATER FLOW. 208 VOLT, SINGLE PHASE ELECTRIC POWER, 4.1 KW HEATING ELEMENT.
WS-1	WATER SOFTENER, MAX CONTINUOUS FLOW RATE 35 GPM, 56,000 GRAIN CAPACITY AT MEDIUM SALT LEVEL, FURNISH AND INSTALL BRINE TANK ACCEPTABLE MANUFACTURERS: HELLENBRAND, CULLIGAN

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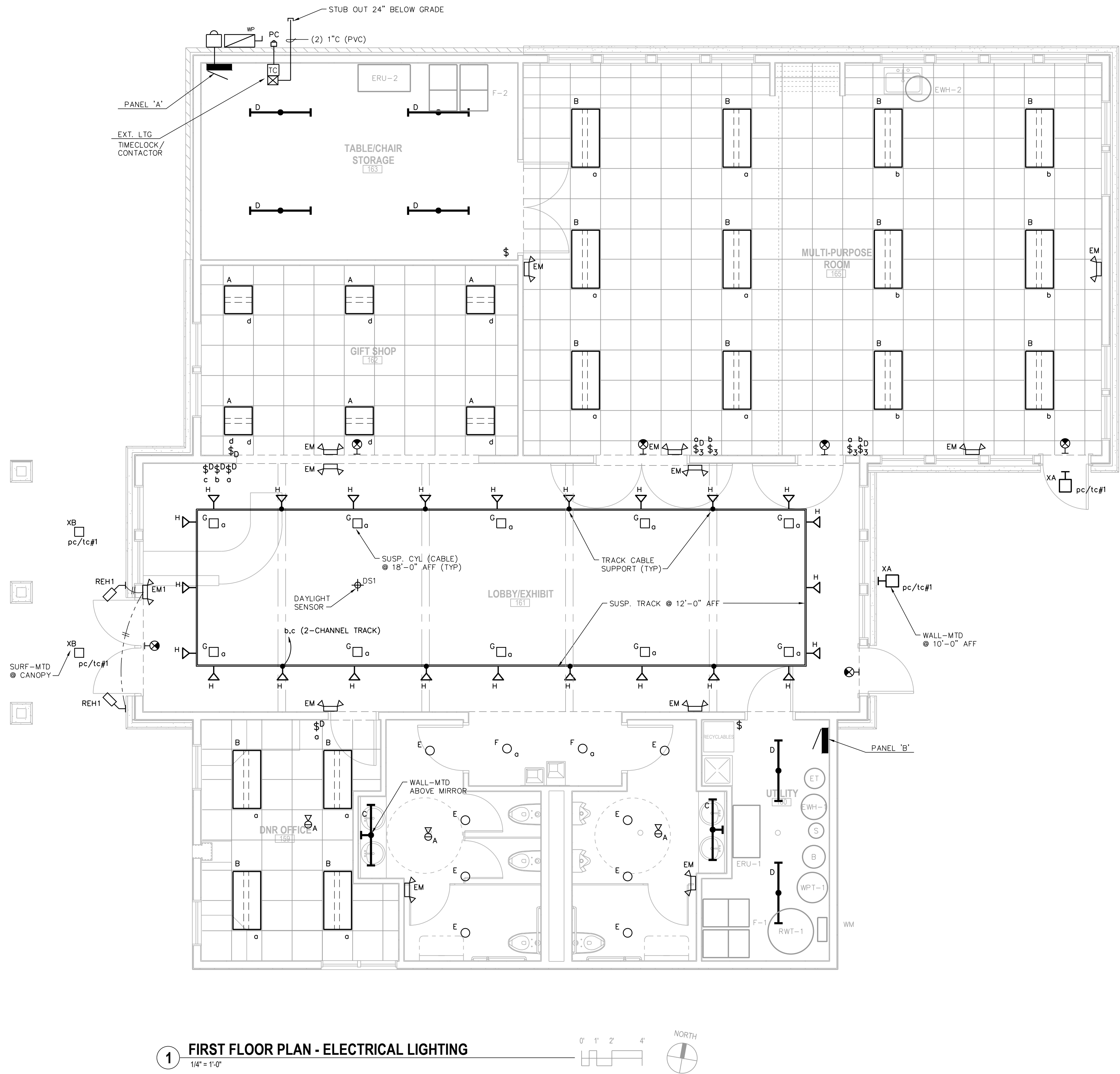
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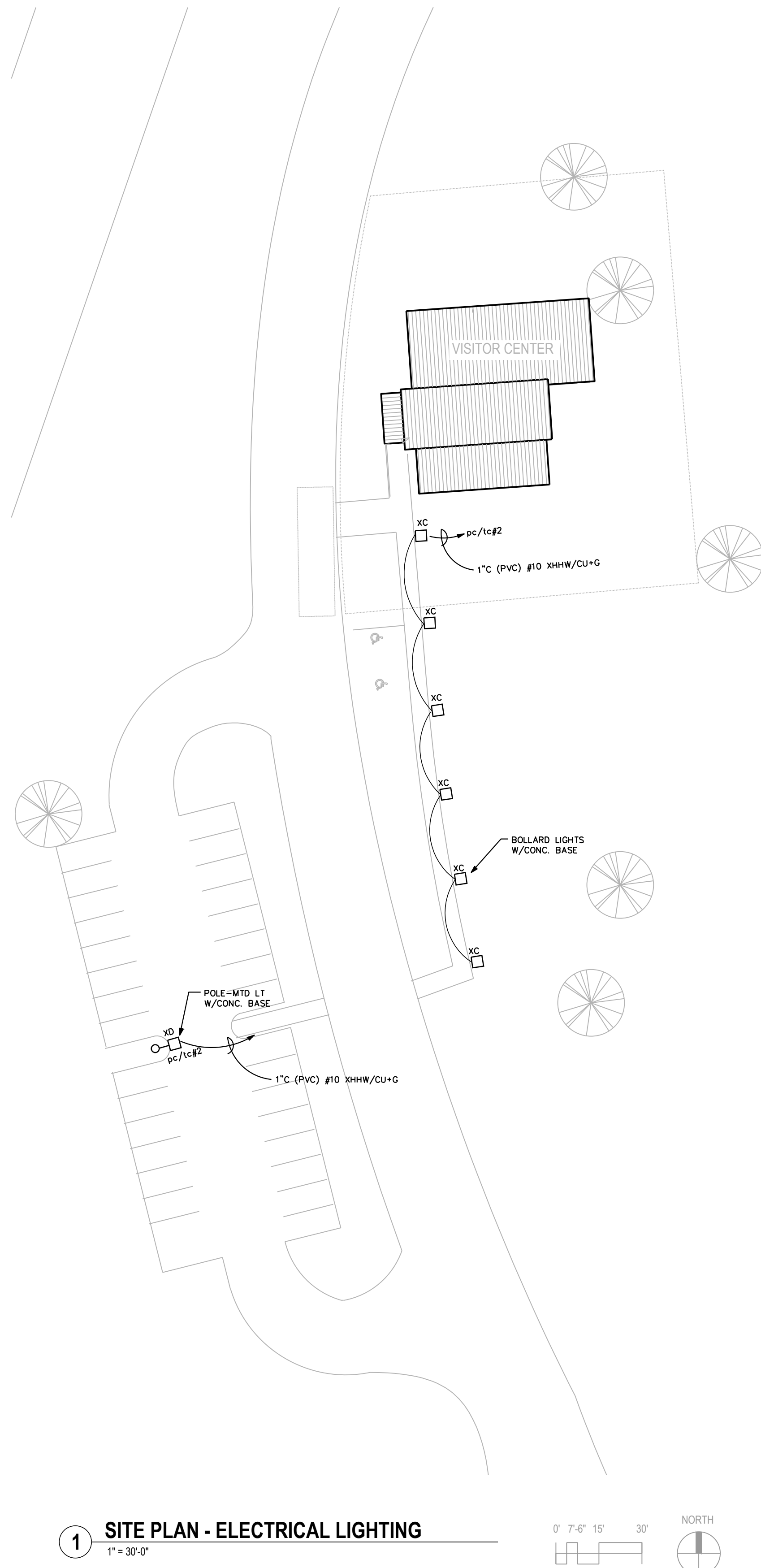
PLUMBING DETAILS
AND SCHEDULE



P5.0



1 FIRST FLOOR PLAN - ELECTRICAL LIGHTING
1/4" = 1'-0"



1 SITE PLAN - ELECTRICAL LIGHTING
1" = 30'-0"

FRIENDS OF AZTALAN STATE PARK-VISITOR CENTER

AZTALAN, WI

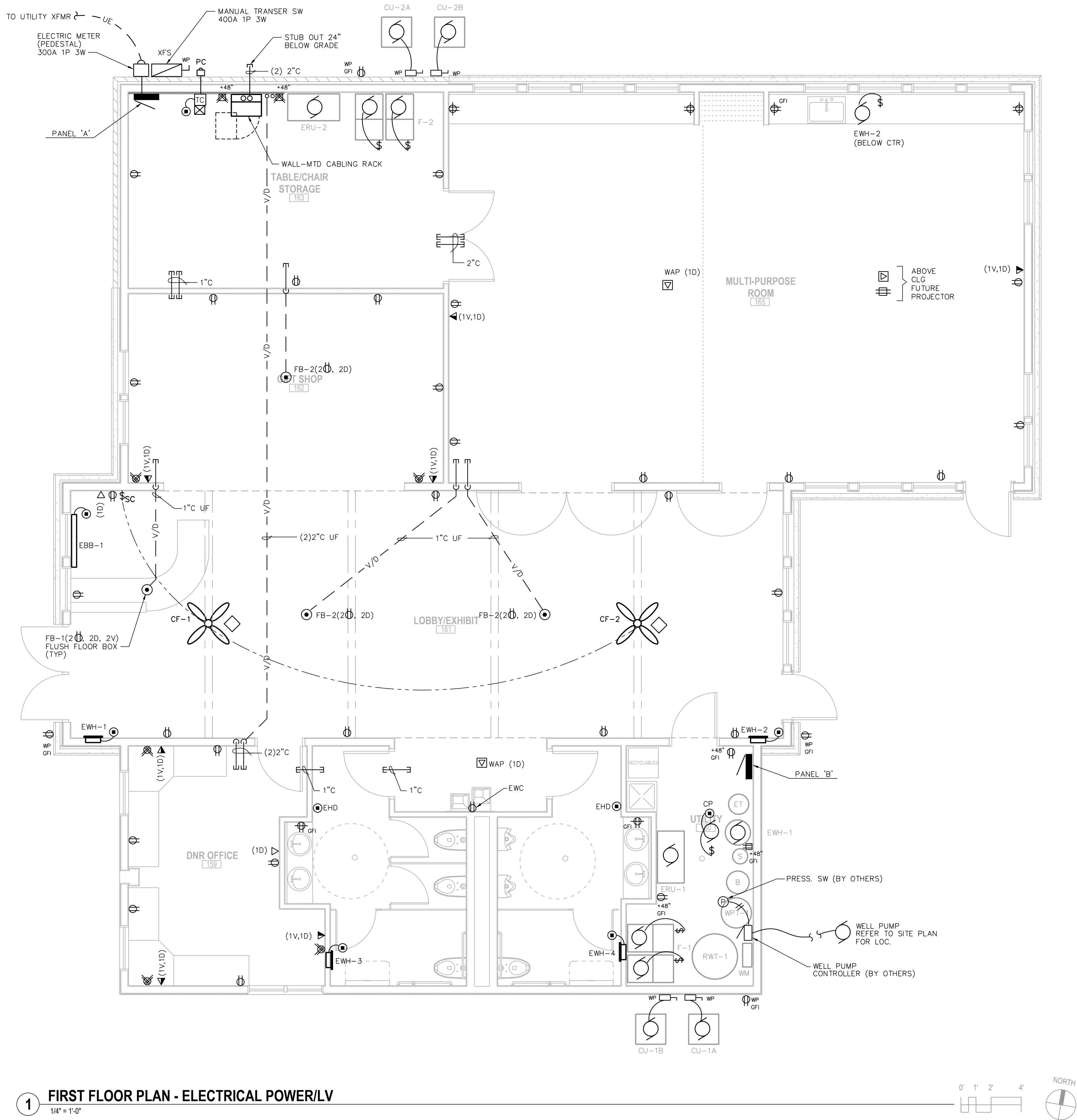
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REVISIONS:

PROJECT # 14098

FLOOR PLAN - ELECTRICAL LIGHTING

E100



1 FIRST FLOOR PLAN - ELECTRICAL POWER/LV
1/4" = 1'-0"



FRIENDS OF
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AZTALAN, WI

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FLOOR PLAN -
ELECTRICAL
POWER/LV

E101

























































ELECTRICAL MOTOR/EQUIPMENT SCHEDULE									
TAG	1	2	3	4	5	6	7	8	9
PANEL NO.							A		
CIRCUIT BREAKER ④							43,45		
POLE							30		
WIRING NO. ①							2+G (#10)		
TYPE							XHHW/CU		
SIZE							#10		
COND.							3/4"		
ELECTRICAL HP. (KW)							2		
VOLT							230		
PHASE							1		
FLA (MCA)							12.0 (15.0)		
STARTER TYPE							PANEL CONTROL PANEL		
SIZE							-		
BY							W.C.		
CONTROL TYPE							PRESSURE SWITCH		
BY							W.C.		
DISCONNECT TYPE							NEMA 3R HD		
SIZE							30		
FUSE							-		
BY							W.C.		
REMARKS	FURNACE F-1A & 1B	FURNACE F-2A & 2B	CONDENSING UNIT CU-1A & 1B	CONDENSING UNIT CU-2A & 2B	ENERGY RECOVERY UNIT ERU-1	ENERGY RECOVERY UNIT ERU-2	WELL PUMP ②	ELECTRIC WTR. HTR. EWH-1 & 2	ELECTRIC WTR. HTR. EWH-3 & 4
E.C. = ELECTRICAL CONTRACTOR H.C. = HVAC CONTRACTOR P.C. = PLUMBING CONTRACTOR G.C. = GENERAL CONTRACTOR W.C. = WELL CONTRACTOR S.C. = PRIVATE SEWAGE DISPOSAL (SEPTIC) CONTRACTOR G.D. = GENERAL DUTY ① PROVIDE GREEN WIRE GROUND TO ALL MOTORS AND EQUIPMENT PER NEC 250-95. ② COORDINATE FINAL WIRING REQUIREMENTS FOR WELL PUMP, WELL CONTROL PANEL/ CONTRACTOR & PNEUMATIC TANK PRESSURE CONTROLS WITH WELL CONTRACTOR. ③ ④ HVAC TYPE CIRCUIT BREAKER. ⑤ GFI CIRCUIT BREAKER.									

LIGHTING FIXTURE SCHEDULE									
TAG	NO.	TYPE	LAMPS WATTS	DESCRIPTION	MOUNTING	FIXTURE, MFGR. & MODEL	BALLAST, MFGR. & MODEL	REMARKS	
A	-	LED	35	W/FIXTURE	RECESSED/ T-BAR CLG.	LITHONIA 2ALL2-40L-EZ1-LP840	-	(1)(2)	LED 2x2 TROFFER DIMMING 4000L
B	-	LED	68	W/FIXTURE	RECESSED/ T-BAR CLG.	LITHONIA 2ALL4-72L-EZ1-LP840	-	(1)(2)	LED 2x4 TROFFER DIMMING 7200L
C	-	LED	50	W/FIXTURE	SURFACE/ WALL	KENALL MLHA5-48-R-MW-PP-1-45L40K-DDC-1-120	-	(1)	4 FT LED WALL BRACKET 4500L
D	-	LED	40	W/FIXTURE	SURFACE/ CEILING	LITHONIA WL4-40L-EZ1-LP840	-	(1)	4 FT LED WRAPAROUND 4000L
E	-	LED	10	W/FIXTURE	RECESSED/ CEILING	LITHONIA 6BPMW-LED-40K90CRI + L7KLEDT24 (HOUSING)	-	(1)(10)	6" LED DOWNLIGHT WHITE BAFFLE 650L
F	-	LED	10	W/FIXTURE	RECESSED/ CEILING	INTENSE LIGHTING ICRLA-650-409-SD-SFW + IL4AIC (HOUSING)	-	(1)(3)	4"ø LED DOWNLIGHT SEMI-DIFFUSE 650L DIMMING
G	-	LED	42	W/FIXTURE	PENDANT/ CEILING	COTHAM ICO-CYL-40/30-4AR-LD-35D-EZB-PM-DWHS	-	(1)(2)	4"ø LED DOWNLIGHT CYLINDER DIMMING 3000L 35 deg
H	-	LED	31	W/FIXTURE	TRACK HEADS	INTENSE LIGHTING - MBWS-L4-41-DIM-W + LHWSW + PLF-W-4 + IPS12W + IPS349	-	(1)(4)	TRACK HEADS + CABLE-HUNG (7)(8) TRACK - 2000L DIMMING
XA	-	LED	27	W/FIXTURE	SURFACE/ WALL	LITHONIA DSXW1-LED-10C-530-40K-IFTM-MVOLT-ELCW	-	(1)(10)	EXT. WALL LIGHT W/BATTERY BACK-UP
XB	-	LED	20	W/FIXTURE	SURFACE/ SOFFIT	KENALL MR1JFF-PP-DB-20L40K-1-DDC-120-LLEL	-	(1)(10)	EXT. 13"ø SOFFIT LIGHT (8)(9) W/BATTERY BACK-UP
XC	-	LED	22	W/FIXTURE	BOLLARD CONC. BASE	LITHONIA KBDB-LED-12C-530-40K-ASY-MVOLT-SF-DBDX	-	(1)(10)	EXT. 8"ø BOLLARD ASYMMETRIC DIST
XD	-	LED	137	W/FIXTURE	POLE-MTD 20 FT RND POLE CONC. BASE	LITHONIA - DSX2-LED-80C-530-40K-T3M-40K-MVOLT-FRPA-SF-DBDXD + RSS-20-4B-DM19AS (20 FT RND STL POLE)	-	(1)(10)	SINGLE HD EXT. POLE-MTD AREA LIGHT TYPE III MED DIST.
EM	2	TH	5.4		SURFACE/ WALL	LITHONIA - ELM2	-	(9)	EMERGENCY EGRESS LIGHT w/ BATTERY BACK-UP
EM1	2	TH	9		SURFACE/ WALL	LITHONIA - ELM654 (54 WATTS, 6V)	-	(6)(9)	EMERGENCY EGRESS LIGHT w/BATTERY BACK-UP & TWO (2) ADD'L REMOTE HEADS
REH-1	1	TH	10		SURFACE/ WALL	LITHONIA - ELA-OMC-H1006-DOB	-	(6)	WALL-MTD REMOTE EXT. EM HEAD-MINI CYLINDER
Ⓢ	-	LED	-	w/FIXTURE	SURFACE	LITHONIA - LOC-W-1-G-ELN	-	(5)(9)	EXIT LIGHT w/BATTERY BACK-UP
LAMP ABBREVIATIONS: LED=LIGHT EMITTING DIODE F=FLUORESCENT TH=TUNGSTEN HALOGEN MH=METAL HALIDE CF=COMPACT FLUORESCENT IN=INCANDESCENT HPS=HIGH PRESSURE SODIUM BF=BALLAST FACTOR									
REMARKS: (1) LED LAMPING & DRIVER. (2) DIMMING LED DRIVER (0-10 VDC). (3) WALL DIMMER (0-10 VDC; 4-WIRE); SYNERGY ISD-BC OR EQUAL. (4) WALL DIMMER (ELV); SYNERGY ISD-LV OR EQUAL. (5) CONTRACTOR TO PROVIDE EXIT FIXTURE MOUNTING AS INDICATED ON DRAWING. (6) EXTEND REMOTE HEAD (REH1) TO EMERGENCY BATTERY PACK. (7) TRACK FITTINGS AND CONNECTIONS AS REQUIRED TO PROVIDE ARRANGEMENT AS SHOWN ON DRAWINGS. (8) FIXTURE FINAL FINISH COLOR TO BE SELECTED BY ARCHITECT. (9) EMERGENCY BATTERY BACK-UP. (10) WET LOCATION UL LISTED.									
ALL FIXTURE VOLTAGES ARE 120 VOLT UNLESS INDICATED OTHERWISE.									

OCCUPANCY SENSOR SCHEDULE							
SYMBOL	MOUNTING	VOLTAGE	RATED CURRENT	PIR SENSOR		MFGR. & MODEL	REMARKS
				TYPE	COVERAGE		
	RECESSED/ CLG	24 VAC	16 mA	DT	360° 24'x24'	SENSOR SWITCH RM-PDT-9	(1)(2) RECESSED CLG DT
	WALL SWITCH	120 VAC	800 Watt	DT	160° 20'	SENSOR SWITCH WSD-PDT	WALL SWITCH
REMARKS: (1) SENSOR SWITCH PP-20 POWER PACK SW RATED: 20 AMPS 120/277 VOLTAGE; OUTPUT = 150mA 15VDC. (2) LOW-VOLTAGE AUX. RELAY.				ABBREVIATIONS: PIR=PASSIVE INFRARED U=ULTRASONIC DT=DUAL TECHNOLOGY (PIR+U)			

FLOOR BOX SCHEDULE					
TAG	TYPE	SERVICE CAPACITY			MFGR. & MODEL
		RECEPTACLES	DATA OUTLETS	VOICE OUTLETS	
FB1	RECESS-ACTIVATED MULTI-SERVICE	2	4	2	LEGRAND RFB4 (BOX)-FPCTC (COVER)
FB2	RECESS-ACTIVATED MULTI-SERVICE	2	2	-	LEGRAND RFB4 (BOX)-FPCTC (COVER)
REMARKS: (1) PROVIDE MULTI-SERVICE INSERT ACCESSORIES AS SCHEDULED FOR SERVICE. (2) ARCHITECT TO SELECT COVER FINAL FINISHES FROM STANDARD OPTION AVAIL.					

DAYLIGHT SENSOR SCHEDULE						
SYMBOL	MOUNTING	VOLTAGE	RATED CURRENT	TYPE	MFGR. & MODEL	REMARKS
	RECESSED/ CLG	120 VAC	800 WATT	ON/OFF PHOTOCELL	SENSOR SWITCH CMR-PC	LINE VOLTAGE
REMARKS:						

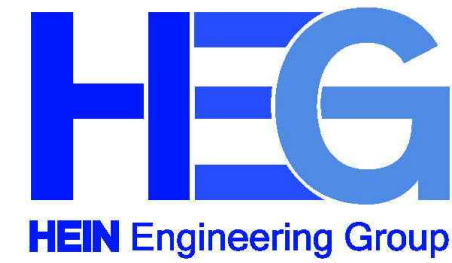
ELECTRICAL SYMBOL SCHEDULE					
MOUNTING HGT. SYMBOL DESCRIPTION			MOUNTING HGT. SYMBOL DESCRIPTION		
<div>EQUIPMENT AND WIRING</div> <div> DIRECT EQUIPMENT CONNECTION</div> <div> MOTOR CONNECTION—SEE EQUIP. SCHEDULE FOR TYPE, WIRING, ETC.</div> <div> JUNCTION BOX—CONCEALED IN FINISHED AREAS, SURFACE IN UNFINISHED AREAS</div> <div> FUSE HOLDER W/FUSESTAT AND TOGGLE SWITCH (1/2 HP MOTORS AND UNDER)</div> <div> SAFETY DISCONNECT SWITCH WITH COVER INTERLOCK—W.P. INDICATES WATERPROOF (NON-FUSED UNLESS INDICATED BY "F"—FUSED)</div> <div> MANUAL STARTER</div> <div> MOTOR STARTER—MAGNETIC UNLESS NOTED OTHERWISE</div> <div> COMB. MOTOR STARTER/ FUSED DISCONNECT</div> <div> ELECTRICAL POWER PANEL</div> <div> ELECTRICAL POWER PANEL</div> <div><div>SPECIALTY DEVICES</div><div> FLUSH FLOOR BOX—FB (DEVICE TYPE)</div><div><div>TELEPHONE AND COMMUNICATION SYSTEMS</div><div> TELEPHONE OUTLET</div><div> DATA OUTLET</div><div> VOICE/DATA OUTLET</div><div> DATA OUTLET MOUNTED ABOVE CASEWORK BACKSPASH</div><div> VOICE/DATA OUTLET MOUNTED ABOVE CASEWORK BACKSPASH</div><div> FLUSH FLOOR VOICE/DATA OUTLET</div><div> TELEPHONE OUTLET IN FLOOR—FLUSH MOUNTED</div><div> TELEPHONE WALL OUTLET</div></div></div> <div><div>COMMUNICATION SYSTEMS</div><div> WAP (1D) WIRELESS ACCESS POINT (1 DATA) CEILING MTD</div></div> <div><div>ABBREVIATIONS</div><div><div>SUBSCRIPTS</div><div>AFF = ABOVE FINISH FLOOR</div><div>GFI = GROUND FAULT INTERRUPTER</div><div>NL = NIGHT LIGHT—24 HOURS</div><div>PC = PHOTOCELL CONTROLLED</div><div>PC/TC = PHOTOCELL ON/ TIMECLOCK OFF</div><div>TC = TIMECLOCK CONTROLLED</div><div>WP = WEATHERPROOF</div></div><div><div>EQUIPMENT</div><div>EHD = ELECTRIC HAND DRYER</div><div>ERV = ENERGY RECOVERY VENTILATOR</div><div>EWC = ELECT. WATER COOLER</div><div>EWH = ELECTRIC WALL HEATER</div><div>F = FURNACE</div><div>CU = CONDENSING UNIT</div></div></div> <div><div>GENERAL MOUNTING NOTES:</div><div>— DEVICE HEIGHTS AS NOTED ON DRAWING OR IN THESE MTG SYMBOL NOTES ARE INLUE OF THAT NOTED ON SYMBOL SCHEDULE. COORDINATE & VERIFY PRIOR TO INSTALLATION WITH GENERAL CONTRACTOR. ALL HEIGHTS INDICATED ARE TO DEVICE CENTERLINE. WHEN MTD IN BLOCK/BRICK WALL, MOUNT TO NEAREST COURSE LINE.</div><div>— APPLIANCE RECEPTACLES (REFRIGERATOR, FREEZER, RANGE, WASHER, DRYER, ECT.) SHALL BE MOUNTED AT 36" AFF UNLESS SPECIFICALLY INDICATED OTHERWISE.</div></div>			<div>PANEL/CIRC.# TYPE SWITCHING</div> <div> INCANDESCENT: SURFACE/ PENDANT</div> <div> INCANDESCENT: RECESSED WALL MOUNTED</div> <div> HID: SURFACE/PENDANT</div> <div> HID: RECESSED</div> <div> HID: SURFACE WALL MOUNTED</div> <div> COMPACT FLUORESCENT: SURFACE</div> <div> COMPACT FLUORESCENT: RECESSED</div> <div> COMPACT FLUORESCENT WALL-MOUNTED</div> <div> FLUORESCENT: RECESSED</div> <div> FLUORESCENT: SURFACE, CEILING MOUNTED</div> <div> FLUORESCENT: SURFACE, WALL MOUNTED</div> <div> EXIT LIGHT: ARROWS, FACES & MOUNTING AS SHOWN ON DRAWINGS</div> <div> EMERGENCY LIGHT W/ BATTERY PACK: WALL MOUNTED</div> <div><div>SWITCHES</div><div> SINGLE POLE</div><div> THREE WAY</div><div> FOUR WAY</div><div> SWITCH AND DUPLEX RECEPT. IN TWO GANG BOX</div><div> DIMMING SWITCH</div><div> SWITCH WITH PILOT LIGHT</div><div> OCCUPANCY SENSOR CONTROLLED WALL SWITCH</div><div> OCCUPANCY SENSOR CEILING OR WALL MTD. TYPE</div><div> DAYLIGHT SENSOR CEILING MTD. TYPE</div></div>	<div><div>RECEPTACLES</div><div> DUPLEX: RECESSED—WP: INDICATES WATERPROOF</div><div> DUPLEX: SURFACE</div><div> DUPLEX: W/G & SURGE SUPPRESSION</div><div> TWO DUPLEX RECEPTACLES IN TWO GANG BOX</div><div> TWO DUPLEX RECEPTACLES SURFACE MTD IN TWO GANG BOX</div><div> DUPLEX: W/GROUND FAULT INTERRUPTION PROTECTION</div><div> 125V, 2P, 2W SINGLE RECEPTACLE</div><div> 250V, 2P, 3W SINGLE RECEPT.—AMPS AS SHOWN ON DRAWINGS</div><div> FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE</div><div> PEDESTAL SERV. FITTING W/ DUPLEX RECEPTACLE</div><div> DUPLEX RECEPT. MOUNTED ABOVE CASEWORK BACKSPASH</div><div> TWO DUPLEX RECEPTACLE MOUNTED ABOVE CASEWORK BACKSPASH</div><div> DUPLEX: SWITCHED</div><div> DUPLEX: TOP HALF SWITCHED</div></div>	

GENERAL ELECTRICAL SCHEDULE NOTES:

MANUFACTURER NAMES AND CATALOG NUMBERS ARE INCLUDED AS A BASIS OF DESIGN FOR QUALITY AND PERFORMANCE ONLY. EQUIPMENT MANUFACTURED BY OTHERS WILL BE EQUALLY ACCEPTABLE PROVIDED THEY MEET OR EXCEED THE SPECIFICATIONS.

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FRIENDS OF
AZTALAN STATE
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AZTALAN, WI

DATE OF ISSUE: 3-31-15

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ELECTRICAL
SCHEDULES

PANEL						'A'		AIC=22,000							
AMPS		400		VOLTS		120/240		MOUNTING		SURFACE					
MAIN		300		PHASE		1		LOCATION		TABLE/CHAIR 163					
BRKR		DESCRIPTION				CIRCUIT		PHASELOADS		CIRCUIT		DESCRIPTION		BRKR	
A	P					WATT	NO.	A	B	NO.	WATT			A	P
							1				2				
							3				4				
							5				6				
							7				8				
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							33				34				
							35				36				
							37				38				
							39				40	- SPD		30	2
							41				42	- SPD		-	-
200	2	SUB FEED PANEL B													
-	-	SUB FEED PANEL B													
ESTIMATED						TOTAL CONNECTED									
DEMAND LOAD:						LOADS:									