

# ALCONA HEALTH CENTER

# ALPENA SERVICES

1209 US 23 NORTH  
ALPENA, MICHIGAN, 49707

OWNER'S REPRESENTATIVE:

BRUCE DIETZ  
100 RIPLEY STREET  
ALPENA, MICHIGAN 49707  
(989) 350-1099

GENERAL NOTES

- THE CONTRACT DOCUMENTS DO NOT ATTEMPT TO DIVIDE AND ASSIGN WORK TO THE SUB-CONTRACTOR(S). VERIFY WITH THE OWNER (CONSTRUCTION MANAGER) ALL ASSIGNMENTS OF WORK, ESPECIALLY THOSE ITEMS WHICH COULD BE ASSIGNED TO VARIOUS/MULTIPLE SUB-CONTRACTORS.
- THE DRAWINGS ARE GRAPHIC AND PICTORIAL PORTIONS OF THE CONTRACT DOCUMENTS SHOWING THE GENERAL DESIGN INTENT AND LOCATION OF THE WORK.
- IN CASE OF DISCREPANCIES, INCONSISTENCIES OR AMBIGUITIES WITHIN THE CONTRACT DOCUMENTS, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER OR OWNER IN WRITING. THE TERM "MOST STRINGENT REQUIREMENT" SHALL MEAN THAT WHICH IS THE MORE RIGOROUS OR EXACTING AND THAT WHICH WILL RESULT IN THE BETTER QUALITY AFFECTED PART OF THE WORK.
- EACH CONTRACTOR SHALL INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF HIS PORTION OF THE WORK TO THE EXTENT CONSISTENT WITH THE CONTRACT DOCUMENTS AND REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS.
- THE DRAWINGS ARE NOT INTENDED AS DOCUMENTATION OF THE SPECIFIC EXISTING CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, DO NOT SCALE OR RELY UPON THE DRAWINGS FOR EXISTING CONDITIONS AND MEASUREMENTS THEREOF. EACH CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS, SIZES, PROFILES, ELEVATIONS, QUANTITIES, MATERIALS, ETC., OF ALL EXISTING CONDITIONS AFFECTING HIS PORTION OF THE WORK.
- DETAILS INCLUDED IN THE DRAWINGS ARE INTENDED TO SHOW GENERAL DESIGN INTENT ONLY. THEY ARE NOT INTENDED TO SERVE AS SHOP DRAWINGS OR OTHER FORM OF GUIDE FOR FABRICATION OR INSTALLATION PURPOSES. EACH CONTRACTOR SHALL BE RESPONSIBLE TO ACHIEVE THE COMPLETE AND PROPER ASSEMBLY AND INSTALLATION OF ALL MATERIALS INCLUDED IN HIS PORTION OF THE WORK AND TO PROVIDE SUBMITTALS AS MAY BE REQUIRED FOR ALL FABRICATED ITEMS INCLUDED THEREIN.
- ALL WORK WILL BE DONE BY CONTRACTORS LICENSED IN THE STATE OF MICHIGAN. ALL CONTRACTORS WILL SUPPLY THEIR REQUIRED PERMITS AND SCHEDULE THEIR RESPECTIVE INSPECTIONS.
- ALL WORK MUST BE DONE IN STRICT ACCORDANCE WITH OSHA & MIOSHA.
- CONTRACTORS WILL SUPPLY TEMPORARY JOB SITE OFFICE TRAILERS, TOOL SHEDS, TELEPHONE, ELECTRICAL OUTLETS, LIGHTING, HEATING DEVICES, ETC., AS REQUIRED FOR CONSTRUCTION. OWNER WILL PAY UTILITY COST FOR NORMAL AMOUNTS OF ELECTRICITY AND NATURAL GAS USED DURING CONSTRUCTION. CONTRACTOR WILL NOT USE THE PERMANENT HEATING SYSTEM FOR TEMPORARY HEATING UNLESS APPROVED BY OWNER.
- UPON COMPLETION, CONTRACTOR WILL REMOVE FROM THE PREMISES ALL SURPLUS MATERIAL AND RUBBISH. FINAL CLEANING WILL INCLUDE: CLEAN OR RE-CLEAN ENTIRE WORK TO NORMAL LEVEL FOR "FIRST CLASS" MAINTENANCE/CLEANING OF BUILDING PROJECTS OF A SIMILAR NATURE; REMOVE NON-PERMANENT PROTECTION AND LABELS; POLISH GLASS, CLEAN EXPOSED FIXTURES, TOUCH UP MINOR FINISH DAMAGE, CLEAN OR REPLACE FILTERS OF MECHANICAL SYSTEMS; REMOVE DEBRIS AND BROOM-CLEAN NON-OCCUPIED SPACES; SANITIZE PLUMBING/FOOD SERVICE FACILITIES; CLEAN LIGHT FIXTURES AND REPLACE BURNED OUT OR DIMMED LAMPS; SWEEP AND WASH PAVED AREAS; POLICE YARDS AND GROUNDS; AND PERFORM SIMILAR CLEANUP NEEDED TO PRODUCE A "CLEAN" CONDITION.
- OWNER WILL SUPPLY BUILDER'S RISK INSURANCE ON ALL NEW CONSTRUCTION. OWNER WILL SUBMIT TO CONTRACTOR A CERTIFICATE OF INSURANCE FOR THIS BEFORE START OF CONSTRUCTION.
- CONTRACTOR WILL SUPPLY WORKER'S COMPENSATION INSURANCE, GENERAL LIABILITY INSURANCE, AND AUTOMOTIVE INSURANCE. CONTRACTOR WILL SUBMIT TO OWNER A CERTIFICATE OF INSURANCE FOR THESE ITEMS BEFORE START OF CONSTRUCTION.
- ALL CONTRACTORS WILL CLEAN UP AFTER THEIR WORK, AND DISPOSE OF OFF SITE AT LOCAL LANDFILL. SITE BURNING IS PROHIBITED. CONTRACTOR WILL PERFORM CLEAN UP DAILY TO PREVENT THE ACCUMULATION OF DEBRIS.
- PLUMBING, MECHANICAL, AND ELECTRICAL CODES ARE THE JURISDICTION OF THE STATE OF MICHIGAN CONSTRUCTION CODE, PERMITS AND INSPECTIONS ARE REQUIRED. SEE PLUMBING, MECHANICAL, AND ELECTRICAL PLANS.
- ALL WORK MUST COMPLY WITH THE 2015 STATE OF MICHIGAN BUILDING CODE, PERMITS AND INSPECTIONS ARE REQUIRED.
- SEE SITE PLAN FOR BUILDING LOCATION, PARKING, DRIVES, UTILITIES, BARRIER FREE BUILDING ENTRANCES, OTHER BARRIER FREE DETAILS, ETC. CONSULT WITH CITY FOR ALL SETBACKS, PARKING REQUIREMENTS, DRIVEWAY REQUIREMENTS, LANDSCAPING REQUIREMENTS, ETC.

CODE INFORMATION

- THE PROJECT HAS BEEN REVIEWED ACCORDING TO THE 2015 MICHIGAN BUILDING CODE (INCORPORATING THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE).
- MICHIGAN BUILDING CODE CLASSIFICATION OF OCCUPANCY IS BUSINESS USE GROUP "B".
- MICHIGAN BUILDING CODE TYPE OF CONSTRUCTION IS UNPROTECTED TYPE "IIB".
- THE MICHIGAN BUILDING CODE ALLOWABLE AREA WITHOUT ALLOWABLE INCREASES IS 19,000 SQ. FT. THE ALLOWABLE HEIGHT IS 3 STORIES.
- WIND LOADS: BASIC WIND SPEED 115 MPH; BUILDING CATEGORY II; IMPORTANCE FACTOR  $I_w=1.0$ ; EXPOSURE FACTOR C.
- MICHIGAN BUILDING CODE OCCUPANT LOAD IS 64.
- INSTALL EXIT SIGNS AND LIGHTS, AND MEANS OF EGRESS LIGHTING PER MICHIGAN BUILDING CODE CHAPTER 10.
- SUPPLY INTERIOR FINISH AND TRIM PER MICHIGAN BUILDING CODE CHAPTER 8 AND THE ROOM FINISH SCHEDULE.
- INSTALL LIGHTING AND VENTILATION PER MICHIGAN BUILDING CODE CHAPTERS 12, 27, 28, AND 29.
- BUILDING SURPASSES ENERGY CONSERVATION REQUIREMENTS OF THE MICHIGAN BUILDING CODE, CHAPTER 13 AND THE MICHIGAN UNIFORM ENERGY CODE.
- PLUMBING, MECHANICAL, AND ELECTRICAL CODES ARE THE JURISDICTION OF THE STATE OF MICHIGAN AND STATE PERMITS ARE REQUIRED.
- ALL WORK AND THE ENTIRE BUILDING MUST COMPLY WITH THE STATE OF MICHIGAN'S BARRIER FREE LAW AND THE AMERICAN'S WITH DISABILITIES ACT.
- ALL WORK MUST COMPLY WITH THE STATE OF MICHIGAN'S BARRIER FREE LAW AND THE AMERICAN'S WITH DISABILITIES ACT AND THE UNIFORM FEDERAL ACCESSIBILITY STANDARDS.
- CONSULT ENGINEERED SITE PLAN AND LOCAL BUILDING OFFICIAL FOR BARRIER FREE PARKING REQUIREMENTS.
- THE BUILDING SHALL HAVE THE APPROVED STREET ADDRESS NUMBERS INSTALLED SO THAT THEY ARE PLAINLY VISIBLE FROM THE ROAD FRONTING THE PROPERTY. THE SIGNAGE SHALL BE IN ACCORDANCE WITH THE 2015 MICHIGAN BUILDING CODE, SECTION 501.2 AND THE 2015 INTERNATIONAL FIRE CODE SECTION 505.
- PORTABLE FIRE EXTINGUISHERS SHALL BE 3A:40B:C, AND WILL BE INSTALLED WITHIN 75' TRAVEL DISTANCE.

DRAWING INDEX

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C2	SITE LEGEND SHEET	M3	MECHANICAL SPECIFICATIONS
C3	SITE DETAIL SHEET	E1	ELECTRICAL LIGHTING PLAN
C4	SITE EXISTING CONDITIONS & SESC PLAN	E2	ELECTRICAL POWER PLAN
C5	SITE CONSTRUCTION & PARKING LAYOUT	E3	ELECTRICAL SITE LIGHTING PLAN
C6	SITE PARKING LAYOUT GRADES	E4	ELECTRICAL SITE LIGHTING PHOTOMETRICS
A1	FLOOR PLAN	E5	ELECTRICAL SCHEDULES & ONE LINE DRAWING
A2	ELEVATIONS	P1	PLUMBING SANITARY PLAN
A3	FOUNDATION PLAN	P2	PLUMBING PIPING PLAN
A4	CASEWORK ELEVATIONS	P3	PLUMBING SCHEDULE, NOTES & DETAILS
A5	REFLECTED CEILING PLANS		
A6	ROOF FRAMING PLAN		
A7	BUILDING SECTIONS		
A8	ROOM FINISH, WINDOWS, AND WINDOW SCHEDULES		

THIS DOCUMENT IS 2022. AS THE REQUIREMENTS OF THE MICHIGAN BUILDING CODE, SECTION 501.2 AND THE 2015 INTERNATIONAL FIRE CODE SECTION 505, WHEN PERMITS ARE OBTAINED, THE PERMITS WILL BE PREPARED TO THE LATEST EDITION OF THE CODE.



BRUCE DIETZ  
100 RIPLEY  
ALPENA, MI 49707

TITLE SHEET

ALCONA HEALTH CENTER  
1209 U.S. 23 NORTH  
ALPENA, MICHIGAN 49707

ISSUED  
REVIEW DEC 22, 2022

SDP MAR 20, 2023

DESIGNER

DESIGNER

JOB NUMBER  
2211.02

SHEET NO.

TS



PUBLIC UTILITIES

THE EXISTING UTILITIES LISTED BELOW AND SHOWN ON THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO BE SATISFIED AS TO IT'S ACCURACY AND THE LOCATION OF EXISTING UTILITIES.

THE CITY OF ALPENA 208 N 1ST STREET ALPENA, MI 49707 CONTACT: STEVE SHULTZ PHONE: 989-354-1730	SEWER/WATER
CHARTER TOWNSHIP OF ALPENA 4385 US23 NORTH ALPENA, MI 49707	SEWER/WATER/STORM
ALPENA POWER COMPANY 401 N 9TH AVE ALPENA, MI 49707 CONTACT: JON BULLIS PHONE: 989-358-4949	POWER
CHARTER COMMUNICATIONS 3432 M-76 WEST WEST BRANCH, MI 48661 CONTACT: GARY BRIGGS PHONE: 866-874-2389	CABLE
DTE ENERGY 1250 MICHCON LANE PO BOX 279 KALKASKA, MI 49646 CONTACT: MATTHEW LOGAN PHONE: 231-258-3785	GAS
FRONTIER COMMUNICATIONS 3249 FOREST ROAD GAYLORD MI. 49735 CONTACT: DAVE VANCE PHONE: 989-356-8281	COMMUNICATIONS
MERIT NETWORK 880 TECHNOLOGY DRIVE, SUITE B ANN ARBOR, MI 48408 CONTACT: DUSTIN LAPOINT PHONE: 734-476-6100	FIBER

BRUCE DIETZ  
PLANS OF PROPOSED IMPROVEMENTS  
US 23 NORTH SITE PLAN DEVELOPMENT  
SECTION 9, T31N, R8E, CHARTER TOWNSHIP OF ALPENA  
ALPENA COUNTY, MICHIGAN



GENERAL NOTES

EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED HEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS FOR CONSTRUCTION.

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174, 2013, THE CONTRACTOR SHALL DIAL 811 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

UNDERGROUND UTILITIES  
FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174, 2013, THE CONTRACTOR SHALL DIAL 811 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

SOIL EROSION MEASURES  
APPROPRIATE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO EARTH DISTURBING ACTIVITIES. PLACE TURF ESTABLISHMENT ITEMS AS SOON AS POSSIBLE.

PARCEL CORNER  
CONTRACTOR SHALL PRESERVE AND/OR REPLACE ANY EXISTING PARCEL CORNERS ENCOUNTERED DURING THE WORK, INCLUDED IN PAYMENT FOR OTHER ITEMS OF WORK.

NOTES APPLYING TO STANDARD PLANS  
WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON THE PLANS, THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARD PLAN OR SPECIAL DETAIL GIVEN BELOW OPPOSITE UNLESS OTHERWISE INDICATED.

R-83-C	UTILITY TRENCHES
R-96-E	SOIL EROSION & SEDIMENTATION CONTROL MEASURES

CONTRACT FOR:

PARKING LOT CONSTRUCTION, UTILITY CONSTRUCTION,  
AND SITE DEVELOPMENT.

PREPARED UNDER SUPERVISION OF

REBECCA E. RIVARD

REGISTERED PROFESSIONAL ENGINEER

50497

REGISTRATION NO.

HURON ENGINEERING AND SURVEYING, INC.

ORGANIZATION

3205 US-23 SOUTH, ALPENA, MI 49707

ADDRESS

TITLE SHEET

SCALE  
N/A

ENGINEER  
RIVARD

DATE  
OCTOBER 20, 2021

HURON JOB NUMBER  
21,096

**HURON**  
ENGINEERING & SURVEYING, INC.

SHEET NO.

1



INDEX TO SHEETS

SHEET 1	TITLE SHEET
SHEET 2	LEGEND SHEET
SHEET 3	DETAIL SHEET
SHEET 4	EXISTING CONDITIONS, REMOVAL, & SESC PLAN
SHEET 5	CONSTRUCTION, LAYOUT, AND PARKING LAYOUT SHEET
SHEET 6	GRADING SHEET



<div><div>WATER &amp; DRAINAGE SYMBOLS</div><div><div><div><div><div><div></div></div><div>EXISTING CATCH BASIN</div></div><div><div><div></div></div><div>PROPOSED CATCH BASIN</div></div><div><div><div></div></div><div>EXISTING MANHOLE</div></div><div><div><div></div></div><div>PROPOSED MANHOLE</div></div><div><div><div></div></div><div>EXISTING CULVERT END SECTION</div></div><div><div><div></div></div><div>PROPOSED CULVERT END SECTION</div></div><div><div><div></div></div><div>EXISTING HEADWALL</div></div><div><div><div></div></div><div>PROPOSED HEADWALL</div></div><div><div><div></div></div><div>WATER SHUTOFF(Service Valve)</div></div><div><div><div></div></div><div>GATE VALVE</div></div><div><div><div></div></div><div>GATEWELL</div></div><div><div><div></div></div><div>WATER METER</div></div><div><div><div></div></div><div>WATER MANHOLE</div></div><div><div><div></div></div><div>EXISTING FIRE HYDRANT</div></div><div><div><div></div></div><div>PROPOSED FIRE HYDRANT</div></div><div><div><div>ADJ-HYD</div></div><div>ADJUST FIRE HYDRANT</div></div><div><div><div>ADJ</div></div><div>ADJUST DRAINAGE STRUCTURE</div></div><div><div><div>ADJ-K</div></div><div>ADJUST DRAINAGE STRUCTURE W/COVER</div></div><div><div><div>ADJ-B/O</div></div><div>ADJUST DRAINAGE STRUCTURE BY OTHERS</div></div><div><div><div>REL-B/O</div></div><div>RELOCATE - BY OTHERS</div></div><div><div><div>SR-1</div></div><div>SIDEWALK RAMP TYPE</div></div><div><div><div></div></div><div>CHECK DAM (PROFILES)</div></div><div><div><div></div></div><div>DIKE (PROFILES)</div></div><div><div><div>W.T. m</div><div></div></div><div>WATER TABLE (PROFILES)</div></div><div><div><div></div></div><div>POST</div></div><div><div><div></div></div><div>WATER WELL</div></div></div></div></div><div><div>REAL ESTATE SYMBOLS</div><div><div><div><div></div></div><div>PROPERTY OWNERSHIP ARROW</div></div><div><div><div></div></div><div>CONTIGUOUS PROPERTY SYMBOL</div></div><div><div><div>123456</div></div><div>PARCEL NUMBER BOX</div></div><div><div><div></div></div><div>PARCEL LINES</div></div></div></div></div> <div><div>UTILITIES SYMBOLS</div><div><div><div><div></div></div><div>POWER POLE</div></div><div><div><div></div></div><div>TELEPHONE POLE</div></div><div><div><div></div></div><div>GUY POLE</div></div><div><div><div></div></div><div>LIGHT POLE</div></div><div><div><div></div></div><div>POWER LIGHT POLE</div></div><div><div><div></div></div><div>TELEPHONE MANHOLE</div></div><div><div><div></div></div><div>POWER TOWER</div></div><div><div><div></div></div><div>GAS VALVE</div></div><div><div><div></div></div><div>WALK/NO-WALK</div></div><div><div><div></div></div><div>GUY ANCHOR</div></div><div><div><div>R X R</div></div><div>RAILROAD SIGNAL</div></div><div><div><div>E</div></div><div>ELECTRICAL MANHOLE</div></div><div><div><div>E H</div></div><div>ELECTRICAL HANDHOLE</div></div><div><div><div>T</div></div><div>TELEPHONE PEDESTAL/RISER</div></div><div><div><div></div></div><div>FIBER OPTIC MARKER</div></div></div></div>
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MISCELLANEOUS SYMBOLS

RIPRAP

SIGN

STUMP

SWAMP

DECIDUOUS TREE

CONIFEROUS TREE

BUSH

MAIL BOX

FLAG

BAR & CAP

SECTION CORNER

QUARTER SECTION

BENCHMARK

USGS MARKER

CONTROL POINT

123

BEAM G. R. RUN NUMBER (EXISTING)

123

BEAM G. R. RUN NUMBER (PROPOSED)

HAZARDOUS OR FLAMMABLE MATERIAL

USED WITH UNDERGROUND GAS & ELECTRICAL LINES

CAUTION - CRITICAL UNDERGROUND UTILITY

USED WITH FIBER OPTICS LINES

PROP 36"

PROPOSED CULVERT/SEWER

EX 12" CMP

CP

CP

EXISTING CULVERT/SEWER

UTILITY PATTERNS

ELEC

E

E

ELECTRICAL LINE

24" GAS

GAS

GAS

GAS

GAS

GAS

GAS

GAS

GAS

GAS

GAS LINE

12" OIL

OIL LINE

TELE

TELEPHONE LINE

36" WM

W

W

W

W

W

WATER LINE

CTV

CABLE TV

FO

FIBER OPTICS

POWER TRANSMISSION LINE

R.O.W. PATTERNS

EX. LIMITED ACCESS R.O.W.

EXISTING R.O.W.

PROP LIMITED ACCESS R.O.W.

PROP FREE ACCESS R.O.W.

SECTION LINE

GRADING EASEMENT

TOPO PATTERNS

HEDGE LINE

TREE LINE

EXISTING FENCE

PROPOSED FENCE

EXISTING GUARD RAIL

PROPOSED GUARD RAIL

DRAINAGE CRS/EDGE OF WATER

WETLANDS AREA

ABANDON ANY UTILITY

CITY LIMITS

RAILROAD

SOUND ABATEMENT WALL

CONCRETE MEDIAN BARRIER

SLOPE STAKE LINE

DRIVE/APPROACH LEGEND

CONCRETE

HMA

AGGREGATE

REMOVAL LEGEND

REMOVING

R

ABANDONING

A

SAVE

S

BULKHEAD

B

REMOVING CURB & GUTTER

SPECIAL LEGEND THIS PROJECT

STANDARD PLAN R-96-E  
SOIL EROSION & SEDIMENTATION  
SILT FENCE

26

STANDARD PLAN R-96-E  
SOIL EROSION & SEDIMENTATION  
CHECK DAM

37

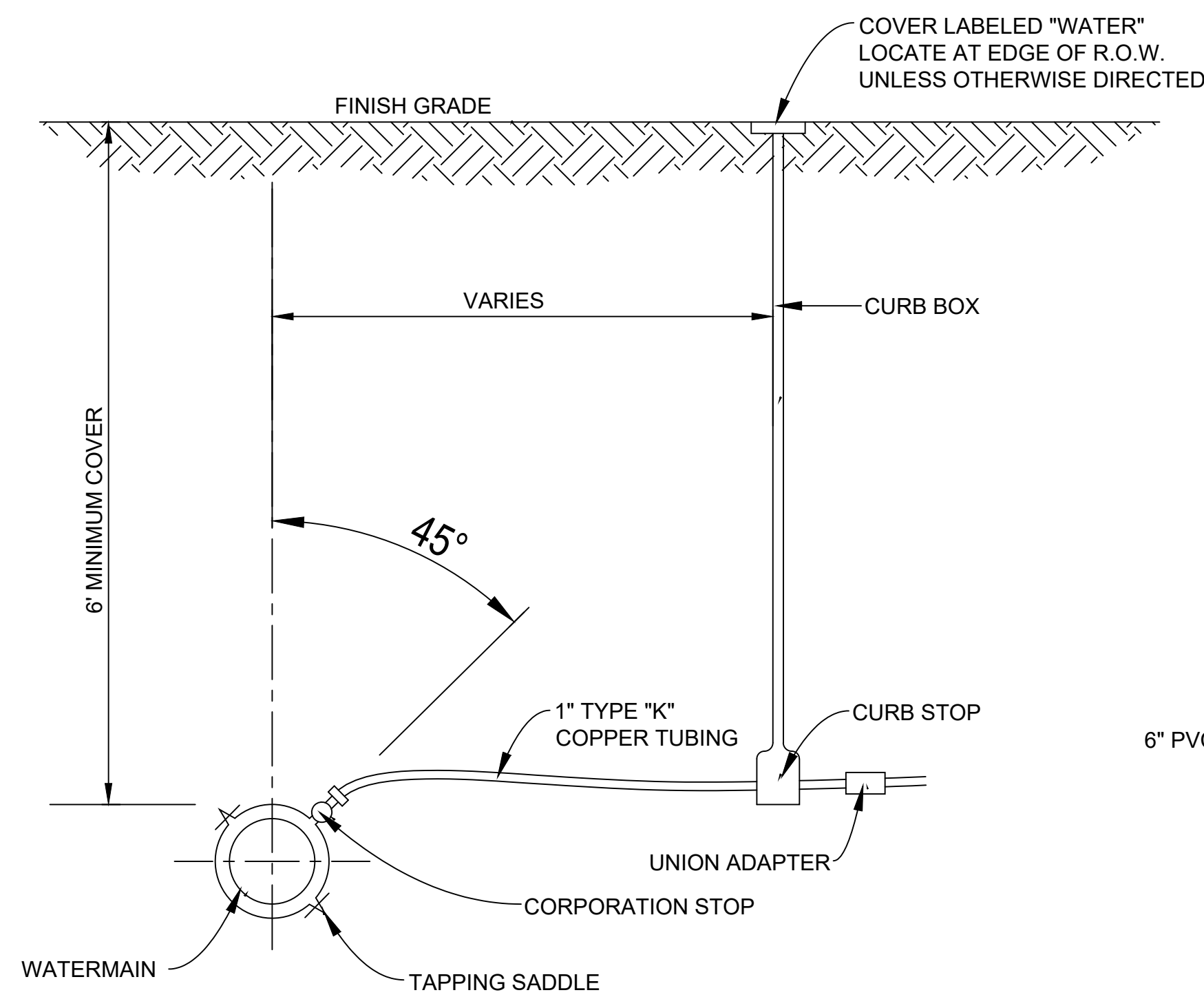
STANDARD PLAN R-96-E  
SOIL EROSION & SEDIMENTATION  
INLET PROTECTION FABRIC DROP

29

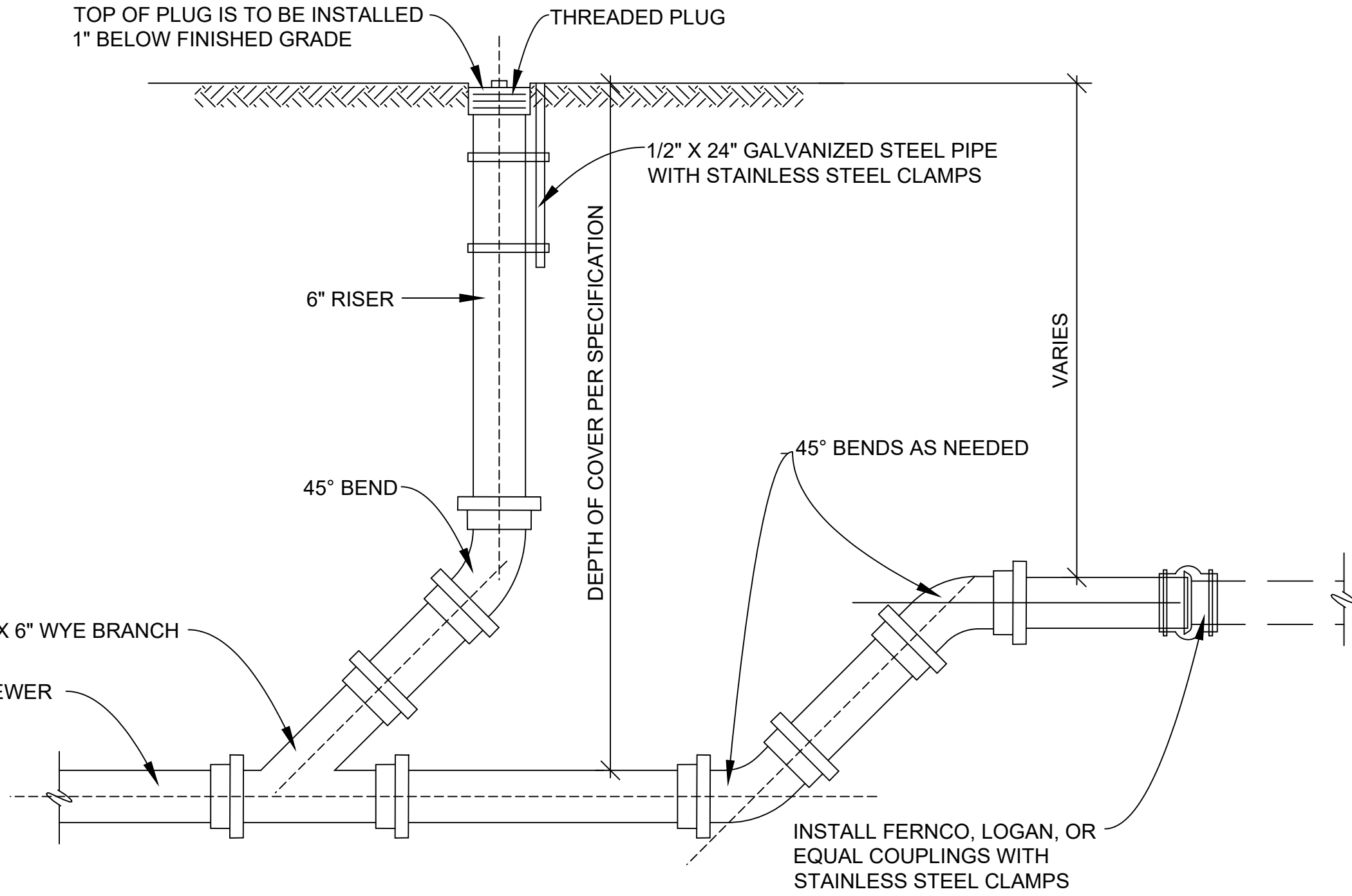
ROAD BORING LOCATION

SBOR 1

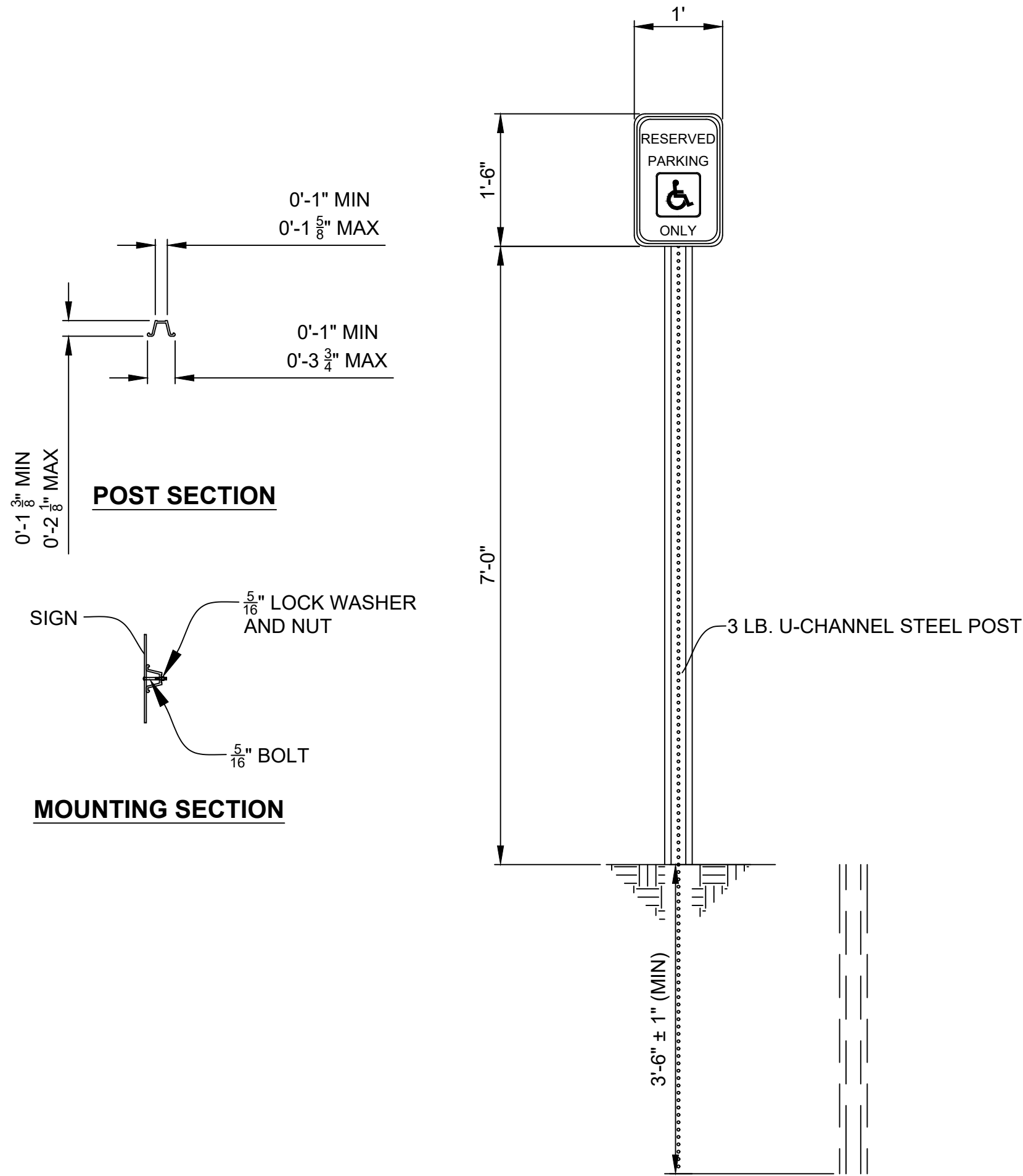
LEGEND SHEET		SCALE N/A	ENGINEER RIVARD	DATE OCTOBER 20, 2021	HURON JOB NUMBER 21.096
		HURON  ENGINEERING & SURVEYING, INC.			
		SHEET NO. 2			



WATER SERVICE LEAD DETAIL

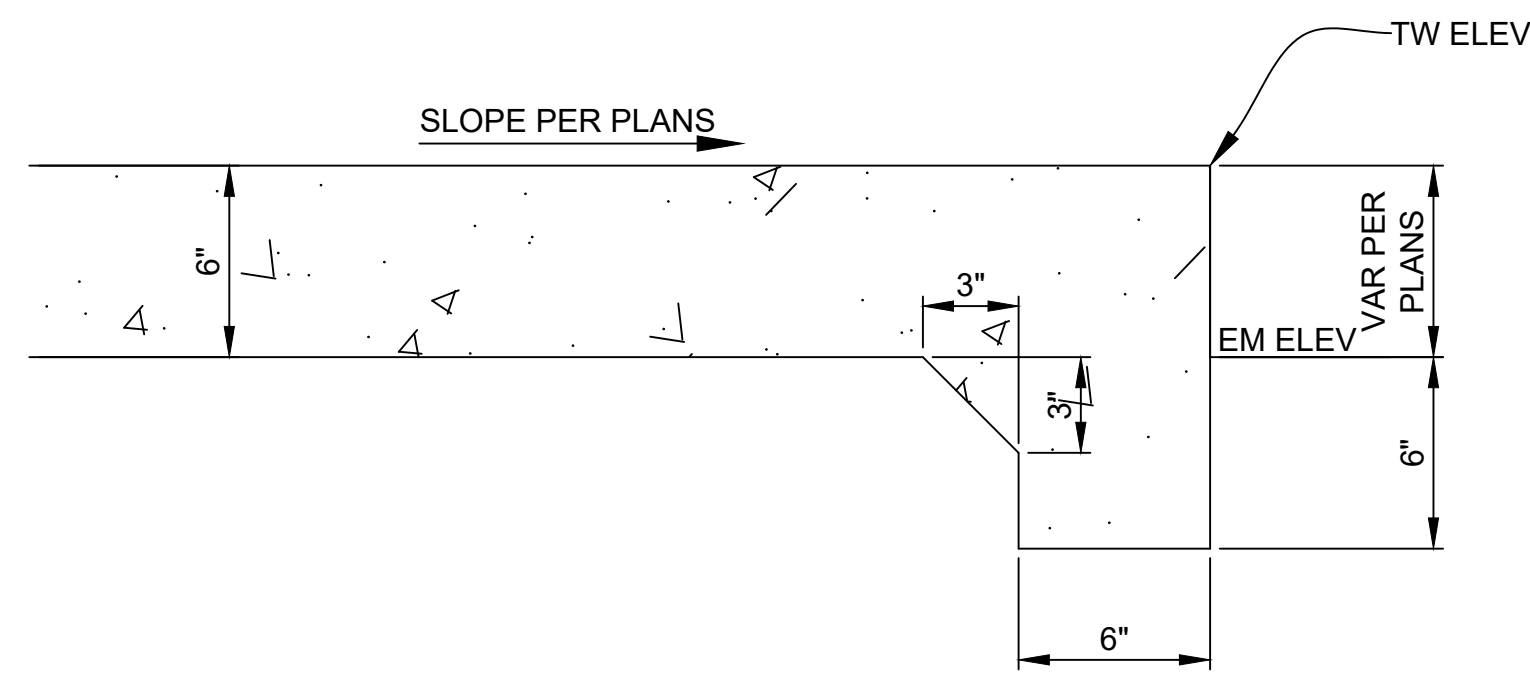


SANITARY SEWER CLEANOUT AND SERVICE DETAIL



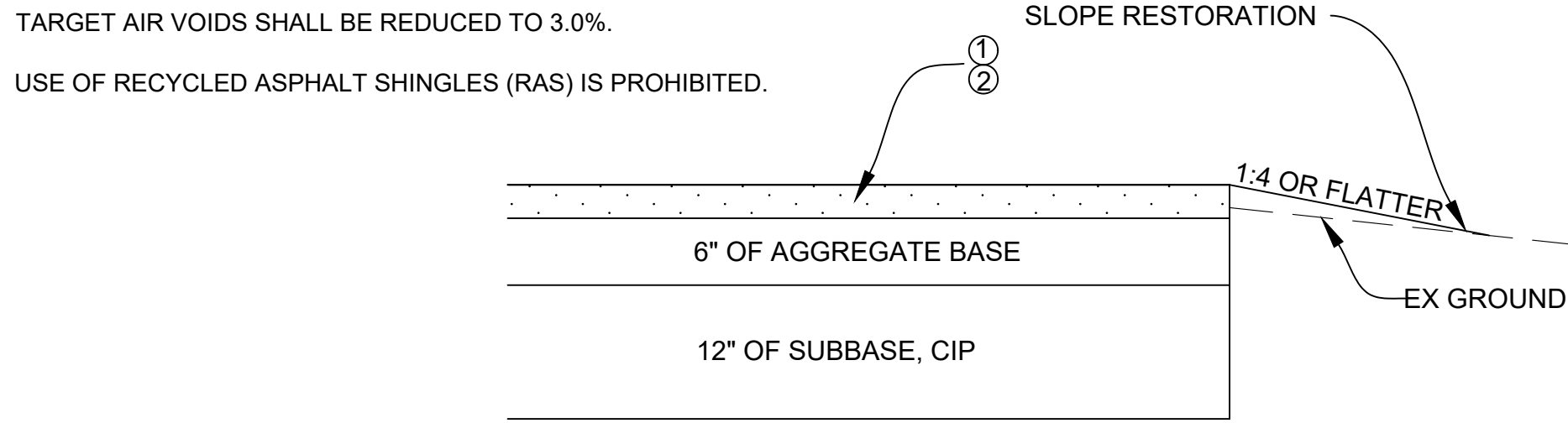
POST MOUNTED ELEVATION

ACCESSIBLE SIGNAGE DETAIL



THICKENED EDGE SIDEWALK DETAIL

NO SCALE

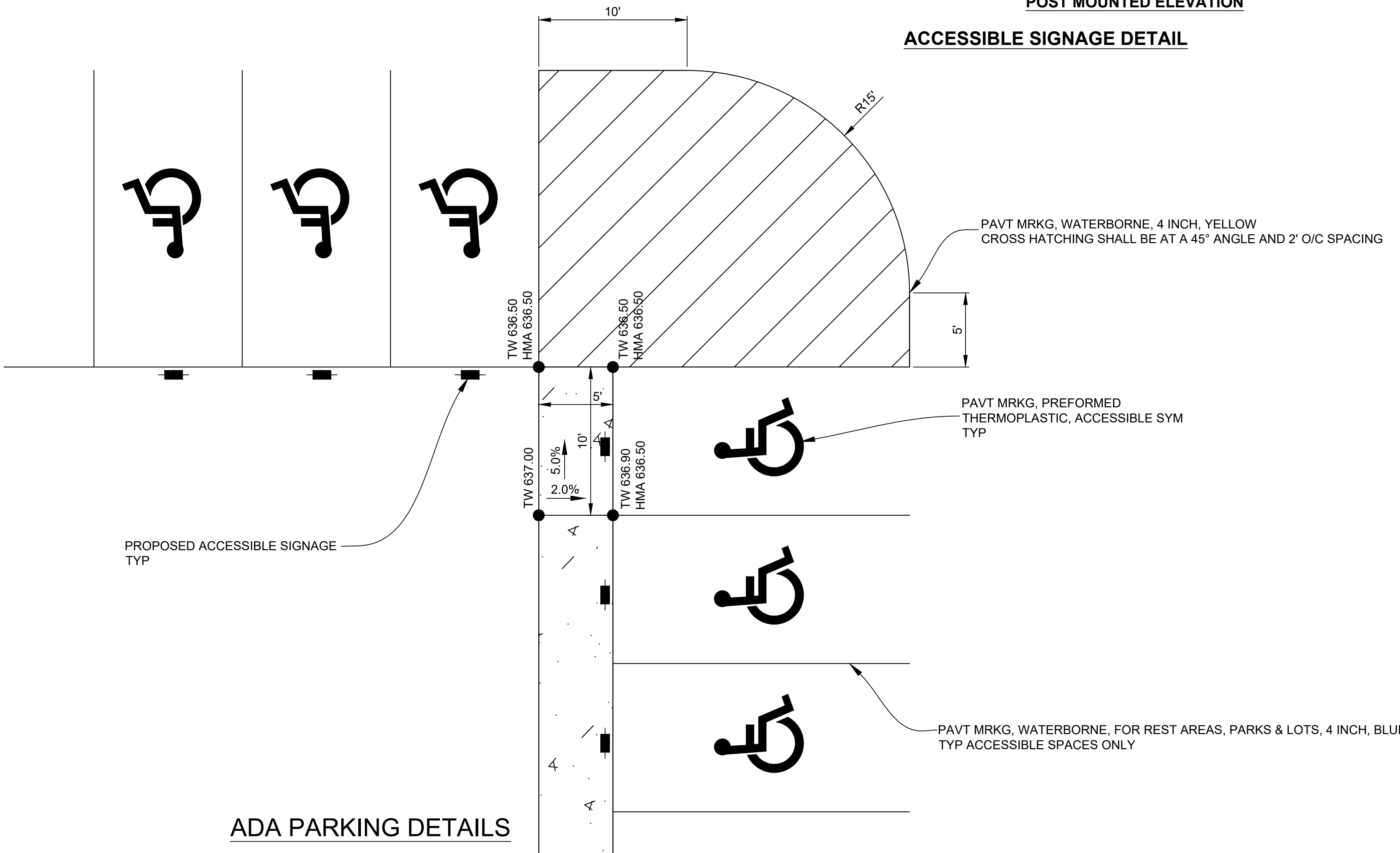


HMA APPLICATION TABLE

IDENT.	PAY ITEM	RATE #/SYD	PERFORMANCE GRADE	REMARKS
①	HMA, LVSP	165	58-28	TOP COURSE, AWI = 220
②	HMA, LVSP	165	58-28	LEVELING COURSE
HMA BOND COAT		0.05-0.15 GAL/SYD (FOR INFORMATION ONLY)		

HMA PAVEMENT DETAIL

NOT TO SCALE



ADA PARKING DETAILS

DETAIL SHEET

SCALE

N/A

ENGINEER

RIVARD

DATE

OCTOBER 20, 2021

HURON JOB NUMBER

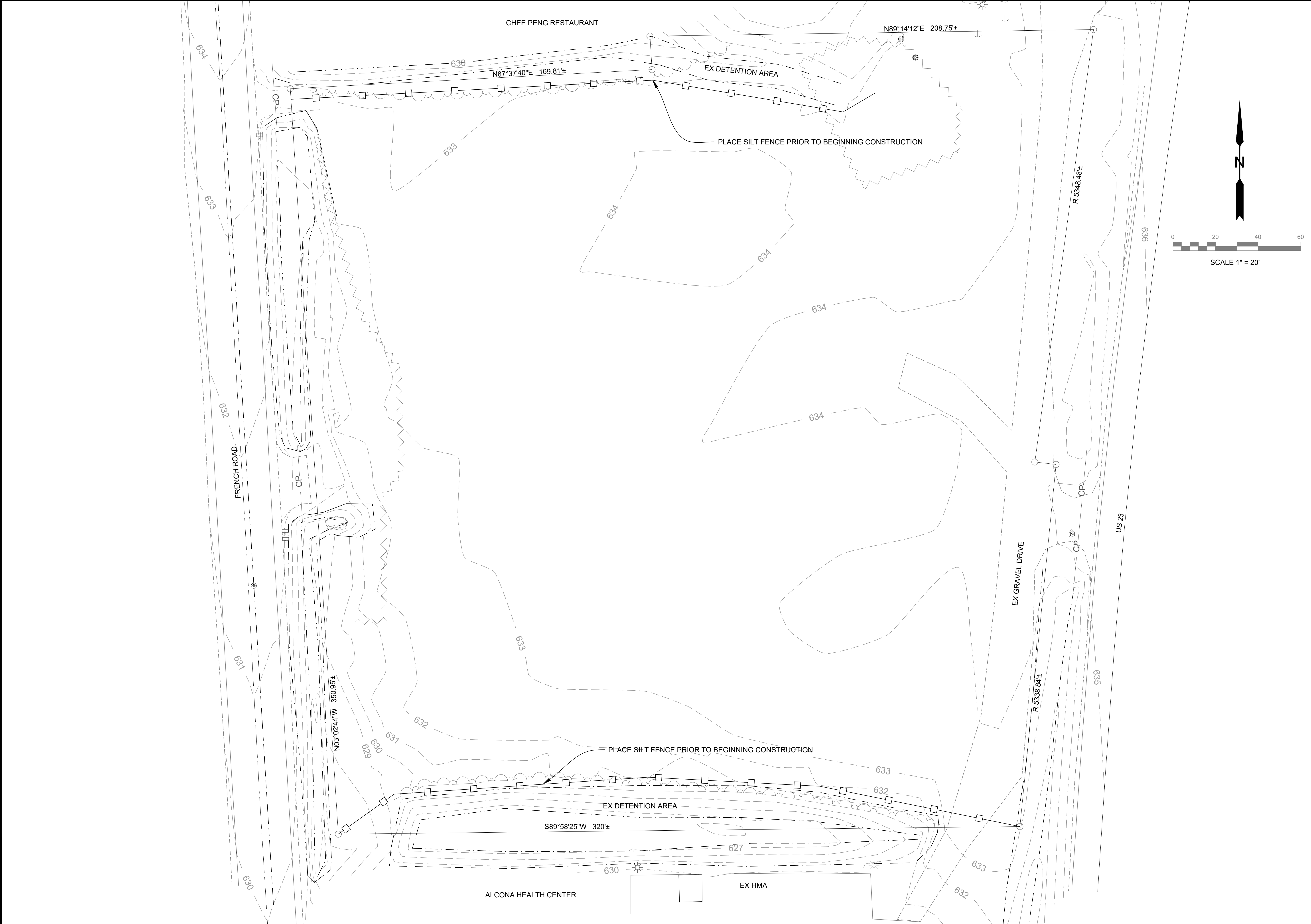
21.096

**HURON**  
ENGINEERING & SURVEYING, INC.

SHEET NO.

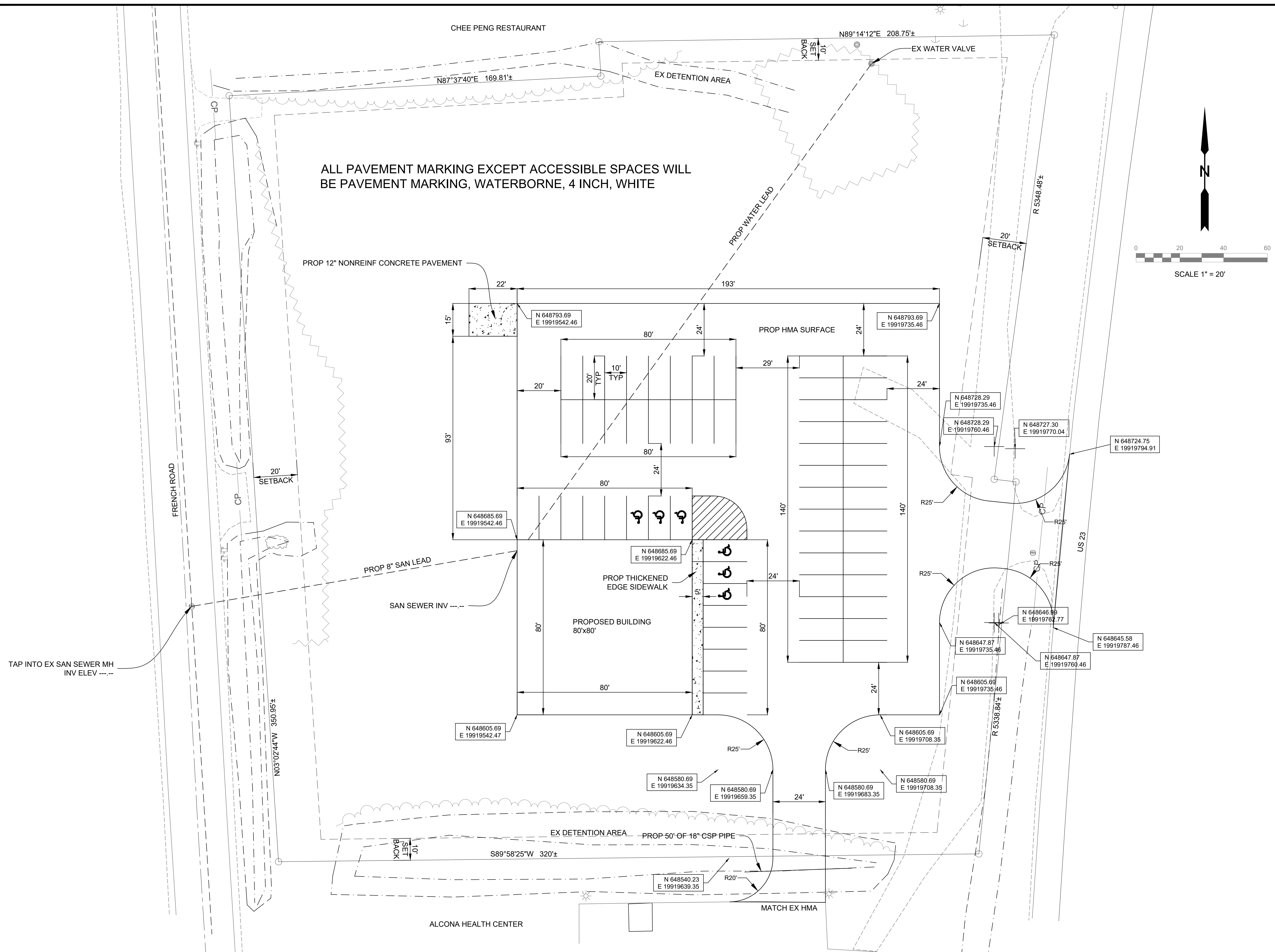
3





EX CONDITIONS & SESC PLAN			HURON ENGINEERING & SURVEYING, INC.	
SCALE 1:20	ENGINEER RIVARD	DATE OCTOBER 20, 2021	HURON JOB NUMBER 21 096	SHEET NO. 4





# CONSTRUCTION, LAYOUT, & PARKING LAYOUT SHEET

HURON JOB NUMBER  
21.096

DATE  
OCTOBER 20, 2021

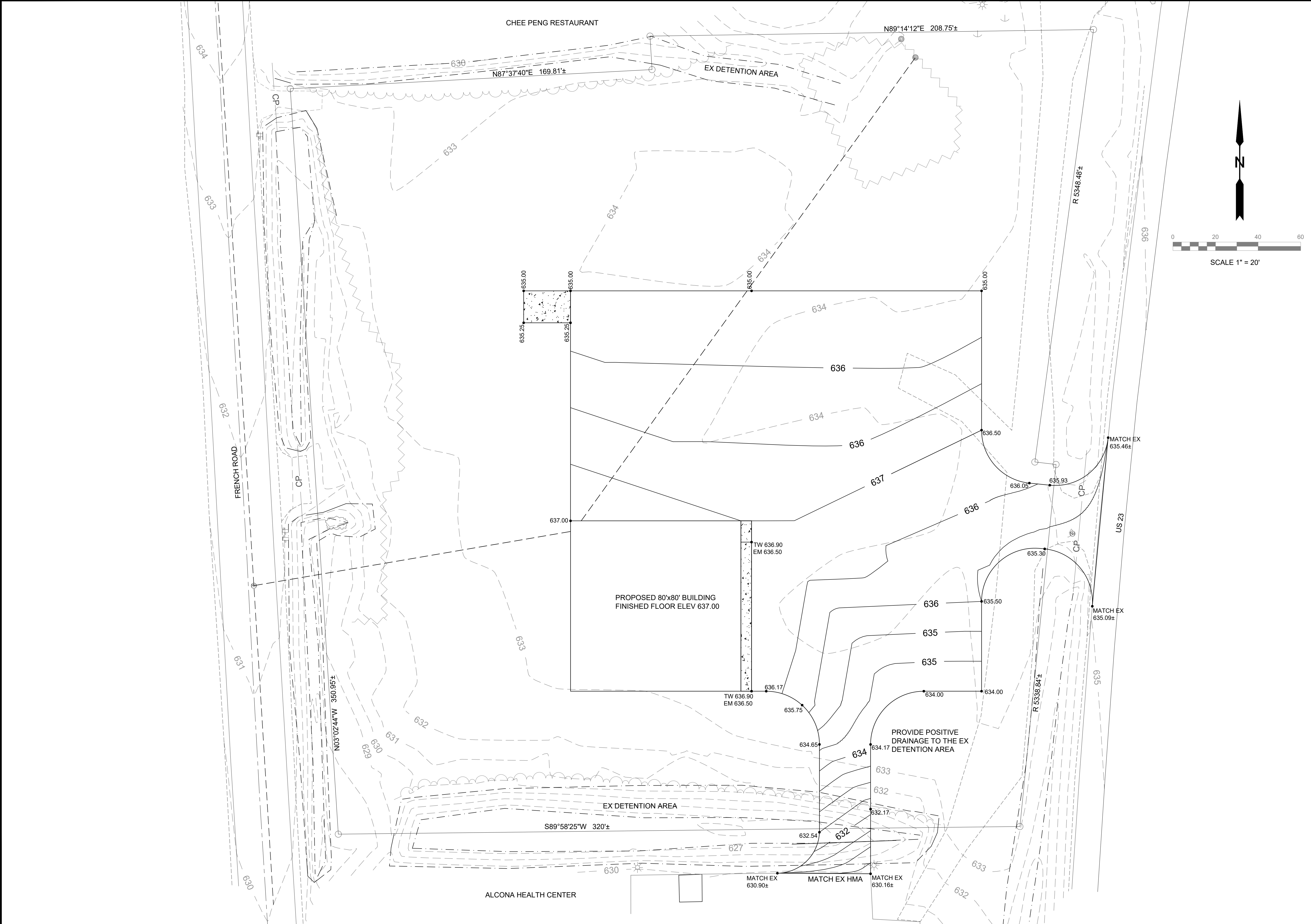
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1:20

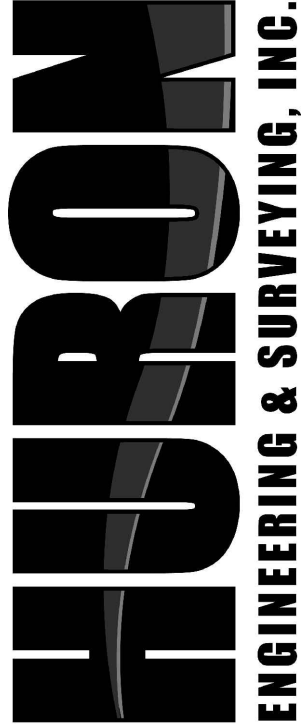


SHEET NO.

5





CONSTRUCTION, LAYOUT, & PARKING LAYOUT SHEET			ENGINEER RIVARD	SCALE 1:20
HURON JOB NUMBER 21 096		DATE OCTOBER 20, 2021		
SHEET NO. 6		<div><b>HURON</b> ENGINEERING &amp; SURVEYING, INC.</div>		

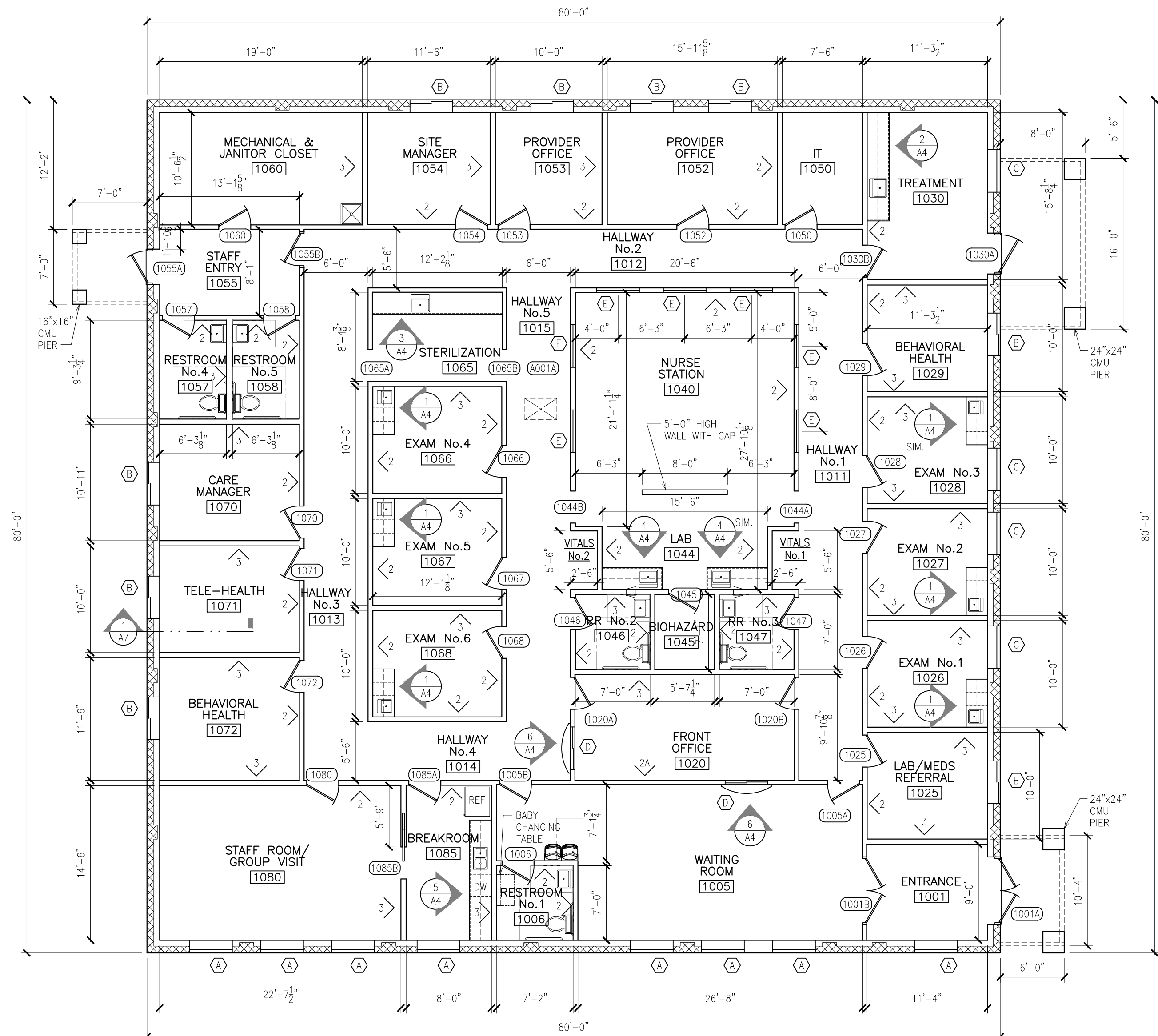


2A

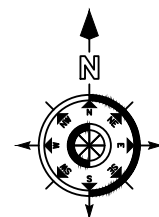
FEC

FEB

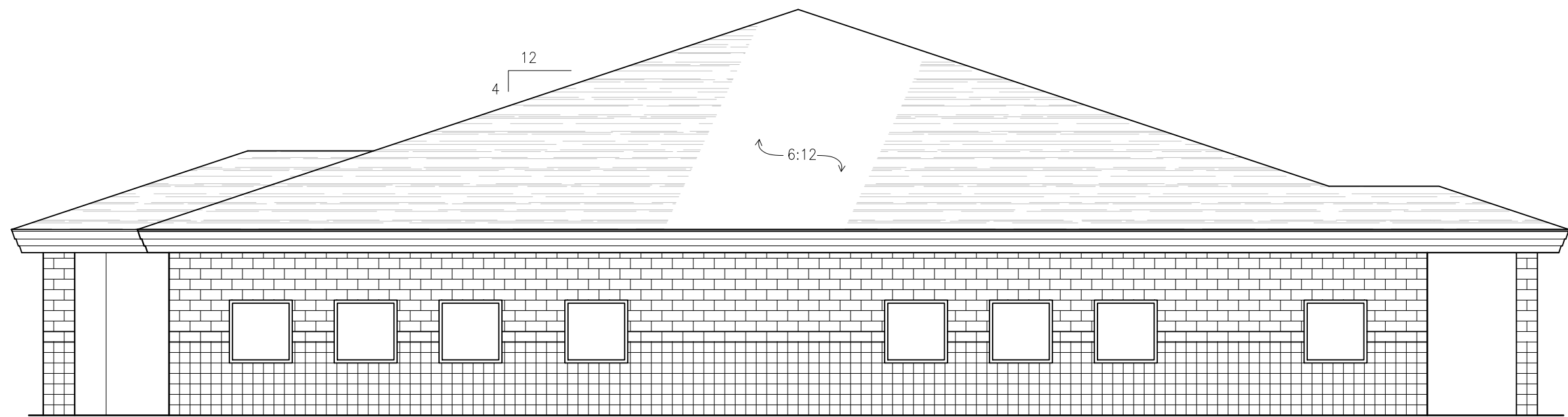
3. THE THICKNESS OF THE WALLS ARE AS INDICATED ON THE PRINTS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE THE START OF CONSTRUCTION.
3. REFER TO ROOF FRAMING PLAN FOR ATTIC SEPARATION AREAS & ATTIC CEILING LOCATIONS.
4. THE TYPICAL DOOR CORNER DETAIL IS  $4\frac{1}{2}"$  ROUGH FRAMING FROM CORNER AND  $5\frac{1}{2}"$  TO SWING OF DOOR.
5. SOUND CONTROL: INSTALL SOUND INSULATION THE FULL HEIGHT OF WALL WHERE SHOWN ON PLANS AND/OR INDICATED IN THE ROOM FINISH SCHEDULE NOTES. PACK INSULATION BETWEEN DOOR JAMB AND FRAMING. DO NOT INSTALL ELECTRICAL BOXES, REGISTERS, DUCT WORK, ETC., BACK-TO-BACK IN THE SAME STUD CAVITY. STRUCTURAL MECHANICAL AND PLUMBING SUBCONTRACTORS WILL LOCATE THEIR WORK ACCORDINGLY, AND CONSULT WITH THE DESIGNER IN THIS REGARD.
6. PROVIDE PLASTIC GROMMETS AT ALL COMPUTER LOCATIONS IN DESK/COUNTER TOPS.
7. VERIFY CABINET LAYOUT WITH OWNER BEFORE THE START OF CONSTRUCTION.
8. PROVIDE CABINET BLOCKING, DIAGONAL SUPPORTS AND ALL ITEMS NECESSARY FOR A COMPLETE INSTALLATION.
9. PROVIDE FILLER STRIP(S) BETWEEN WALL AND CABINETS, AS REQUIRED. FILLER STRIPS SHALL MATCH CASEWORK IN ALL RESPECTS. SIZE OF FILLERS SHALL BE 2" MAX.
10. WHERE RATED WALLS ARE PENETRATED BY FIRE EXTINGUISHER CABINETS, WATER COOLERS, ELECTRICAL DISTRIBUTION PANELS, ETC.), PROVIDE RECESS OF EQUAL RATING TO THE WALLS.
11. DO NOT ALLOW DISSIMILAR METALS TO COME INTO CONTACT WITH EACH OTHER. DISSIMILAR METALS INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, ALUMINUM, ZINC, IRON (STRUCTURAL STEEL), TIN, LEAD, AND COPPER.
12. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE, LOCATION AND QUANTITY OF ARCHITECTURAL ITEMS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, BUT THAT MUST BE PROVIDED FOR INTEGRATION OF MECHANICAL AND ELECTRICAL WORK. THESE ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO HOUSEKEEPING PADS, ACCESS PANELS, MOUNTING DEVICES, BACKSPODS, BLOCKING, ETC.
13. PROVIDE WOOD BLOCKING BETWEEN BOTTOM CHORDS OF WOOD TRUSSES AS REQUIRED TO ANCHOR THE TOP OF PARTITION WALLS WHERE THEY FALL BETWEEN TRUSSES. USE UPLIFT CLIPS. DO NOT ATTACH TRUSSES DIRECTLY TO INTERIOR PARTITION WALLS.
14. TYPICALLY INTERIOR DIMENSIONS ARE GIVEN TO THE FINISHED FACE OF THE WALL/PARTITION. DIMENSIONS CORRELATING TO EXTERIOR WALLS ARE TYPICALLY TO THE OUTSIDE FACE OF THE CMU UNLESS NOTED OTHERWISE.
15. PROVIDE SOLID BLOCKING BEHIND ALL TOILET ACCESSORIES AND OTHER WALL MOUNTED EQUIPMENT. REFER TO INTERIOR ELEVATIONS, PLANS, AND DETAILS FOR LOCATIONS.
16. BARRIER FREE SIGNAGE IS TO INCLUDE FOUR (4) BUILDING COMPLIANCE SIGNS, ONE (1) RESTROOM SIGN FOR EACH BARRIER FREE RESTROOM. CONSULT ENGINEERED SITE PLAN AND LOCAL BUILDING OFFICIAL FOR BARRIER FREE PARKING REQUIREMENTS.
17. ALL CONCRETE, MASONRY, AND GYPSUM BOARD CONTROL JOINTS, EXPANSION JOINTS AND SAWCUTS WILL COMPLY WITH ASTM C 94; ACI 301; ACI 318; ACI 530.1; ACSE 6; TMS 602; GA 216; GA 600 AND INDUSTRY STANDARDS.
18. PROVIDE FIRE BLOCKING IN ALL NON-INSULATED, COMBUSTIBLE WALL CAVITIES AT SUSPENDED CEILING JOINTURE, PER MICHIGAN BUILDING CODE, CHAPTER 7.
19. FIELD VERIFY ELECTRIC SERVICE LOCATION, WATER SERVICE LOCATION, SANITARY SEWER EXIT LOCATION, FURNACE LOCATION, WATER HEATER LOCATION, GAS METER / REGULATOR LOCATION, ETC. IN FIELD PRIOR TO THE START OF CONSTRUCTION.
20. PROVIDE PORTABLE FIRE EXTINGUISHERS IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE AND THE LOCAL FIRE MARSHALL.
21. REVENT ALL PLUMBING STACKS AND PENETRATE THE ROOF ON THE BACK ELEVATION, VERIFY WITH OWNER.
22. ALL PLUMBING WILL BE IN INTERIOR WALLS, WHERE POSSIBLE.



FLOOR: 6,400 SF      SCALE: 1/8"=1'-0"

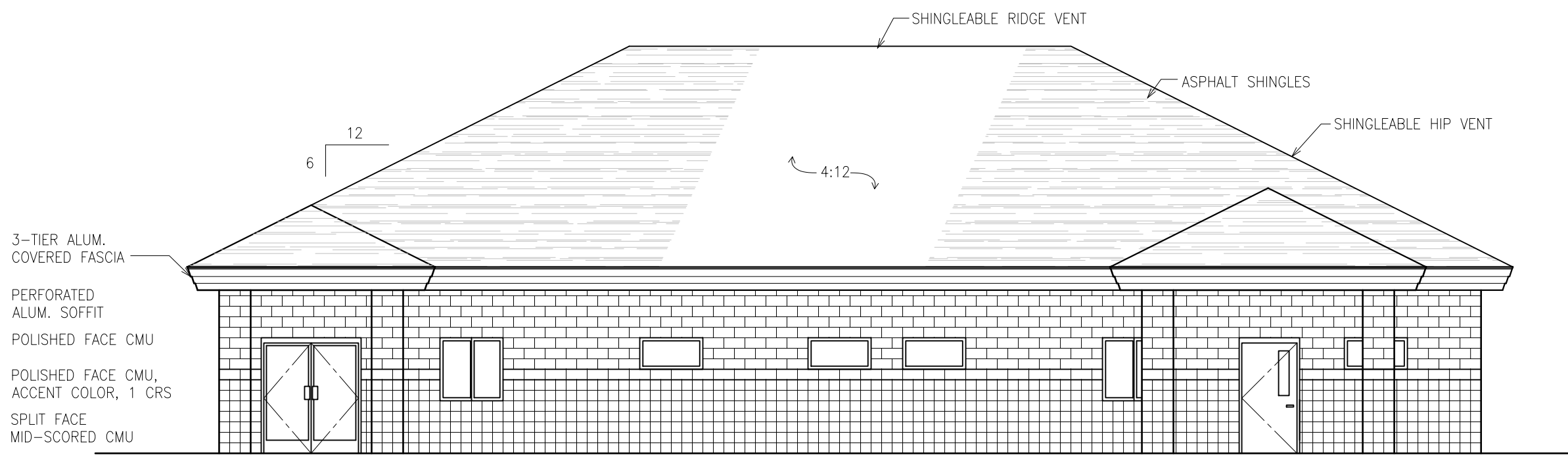






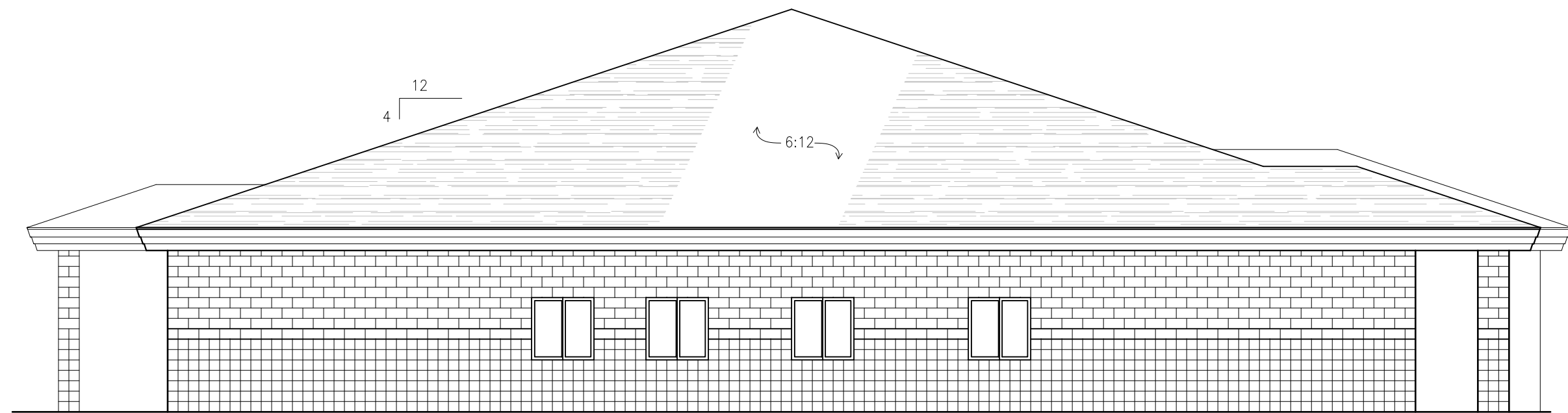
SOUTH ELEVATION

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



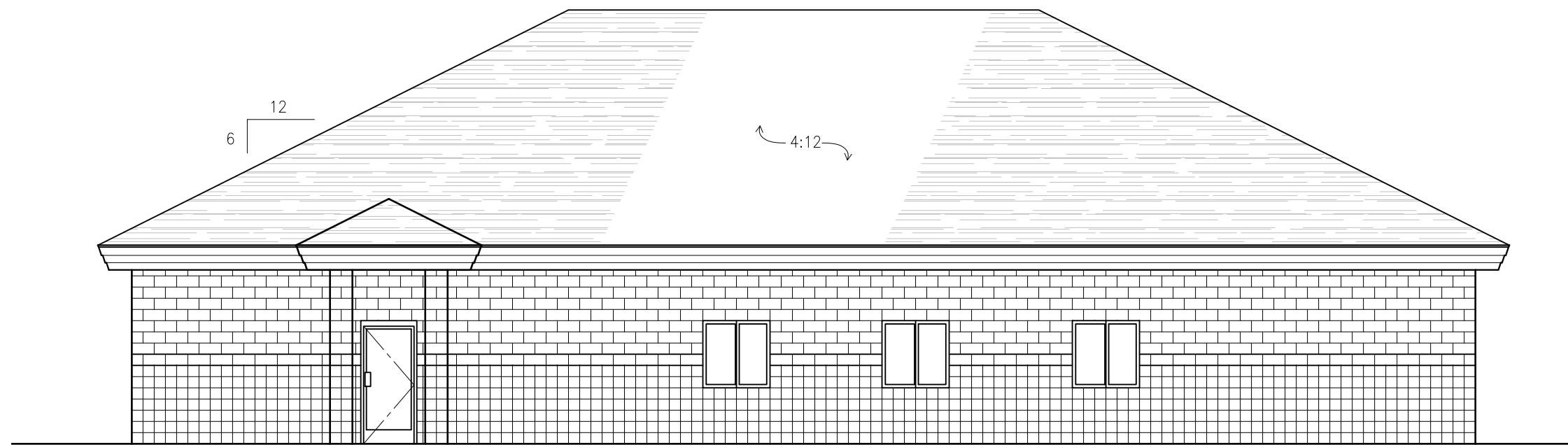
EAST (US 23) ELEVATION

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



NORTH ELEVATION

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



WEST ELEVATION

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

ELEVATION NOTES

1. CONSULT WITH THE PLUMBING CONTRACTOR FOR THE LOCATION OF WATER AND SEWER CONNECTIONS, FIXTURES, VENTS, ETC.
2. CONSULT WITH THE MECHANICAL CONTRACTOR FOR THE LOCATION OF THE GAS SERVICE, VENTS, ETC.
3. CONSULT WITH THE ELECTRICAL CONTRACTOR FOR THE LOCATION OF THE ELECTRIC SERVICE, FIXTURES, ETC.
4. CONSULT WITH THE OWNER FOR ADDITIONAL EXTERIOR ITEMS AND TRIM BEFORE THE START OF CONSTRUCTION.
5. VERIFY CMU COLOR AND STYLE AND MORTAR COLOR WITH OWNER.
6. ASPHALT SHINGLES ARE CERTANTEED LANDMARK PLUS, 40 YEAR SHINGLES, VERIFY COLOR WITH OWNER.
7. VERIFY ALUMINUM DRIP EDGE COLOR WITH OWNER.
8. FASCIA METAL WILL BE RIBBED ALUMINUM, VERIFY COLOR WITH OWNER.
9. SOFFIT WILL BE PERFORATED ALUMINUM, VERIFY COLOR WITH OWNER.
10. EXPOSED FLASHING WILL BE PVC COATED COILED ALUMINUM STOCK, VERIFY COLOR WITH OWNER.

REQUIRED SOIL-BEARING CAPACITY IS 2500 PSF. (SITE WORK CONTRACTOR TO VERIFY).

DESIGN LOADS: MAIN FLOOR: 100 PSF; WIND LOADS: 20 PSF; ROOF LIVE (GROUND SNOW) LOADS: 50 PSF; PLUS DEAD LOADS AS REQUIRED.

ALL FOOTINGS ON UNDISTURBED SOIL OR ENGINEERED FILL (CONTRACTOR TO VERIFY).

PLACE ENGINEERED FILL IN LAYERS NOT EXCEEDING 8" LOOSE THICKNESS. COMPACT TO AT LEAST 95% OF THE MAXIMUM DENSITY PER ASTM D-1557. COMPACTING BY FLOODING IS NOT PERMITTED.

ALL FOUNDATION CONCRETE WILL BE  $f'c=3000$  PSI; ALL EXTERIOR CONCRETE WILL BE  $f'c=4000$  PSI WITH FIBERGLASS FIBERS OR W.W.F. (AS NOTED) AND AIR ENTRAINED. ALL INTERIOR CONCRETE WILL BE  $f'c=3500$  PSI WITH FIBERGLASS FIBERS OR W.W.F.

ALL CONTROL JOINTS, EXPANSION JOINTS AND SAWCUTS WILL COMPLY WITH ASTM C 94; ACI 301; ACI 318; ACI 530.1; ASCE 6; TMS 602 AND INDUSTRY STANDARDS.

AT CONSTRUCTION AND EXPANSION JOINTS, PROVIDE JOINT SEALANTS, JOINT FILLERS, AND OTHER RELATED MATERIAL COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER SERVICE AND APPLICATION CONDITIONS. SEALANTS MUST COMPLY WITH ASTM C920.

ALL CONCRETE REINFORCING STEEL WILL BE  $F_y=60,000$  PSI. CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM A-615 GRADE 60.

PROVIDE A MINIMUM OF 3" COVER FOR ALL CONCRETE REINFORCING STEEL.

ALL ANCHOR BOLTS WILL BE A307 STEEL.

CONTRACTOR WILL SEAL ALL CONCRETE SLABS WITH A TYPE I, CLASS B, COMMERCIAL FLOOR CURING AND SEALING AGENT AS SOON AS POSSIBLE AFTER FINISHING.

CENTER FOOTINGS UNDER WALL LOCATION UNLESS NOTED OTHERWISE.

ALL CONCRETE WORK WILL BE DONE IN ACCORDANCE WITH ACI BUILDING CODE (318); MANUAL OF STANDARD PRACTICE, FOR DETAILING (315) FOR THE MIXING, FABRICATION, AND PLACEMENT OF CONCRETE, REINFORCING STEEL, AND ACCESSORIES.

CONTRACTOR WILL INSTALL 6 MIL VAPOR BARRIER UNDER ALL INTERIOR SLABS ON GRADE.

ALL CONCRETE MASONRY UNITS ARE HOLLOW, GRADE A, AND CONFORM TO ASTM C-145 AND C-90.

ALL MASONRY WALLS WILL BE REINFORCED HORIZONTALLY WITH "DURAWALL" OR EQUAL @ 16" O.C. AND REINFORCED VERTICALLY BY FILLING ONE CORE (FULL HEIGHT OF WALL) WITH 3500 PSI CONCRETE AND ONE #5 REINFORCING BAR CONTINUOUS @ 4'-0" O.C.

INSTALL SINGLE WYTHE BLOCK FLASH PAN SYSTEM, INSTALL PER MFR.

ALL MORTAR FOR MASONRY WILL BE TYPE "M".

ALL MASONRY WORK WILL BE DONE IN ACCORDANCE WITH NCMA AND ACI 530 AND ASCE 5 SPECIFICATIONS.

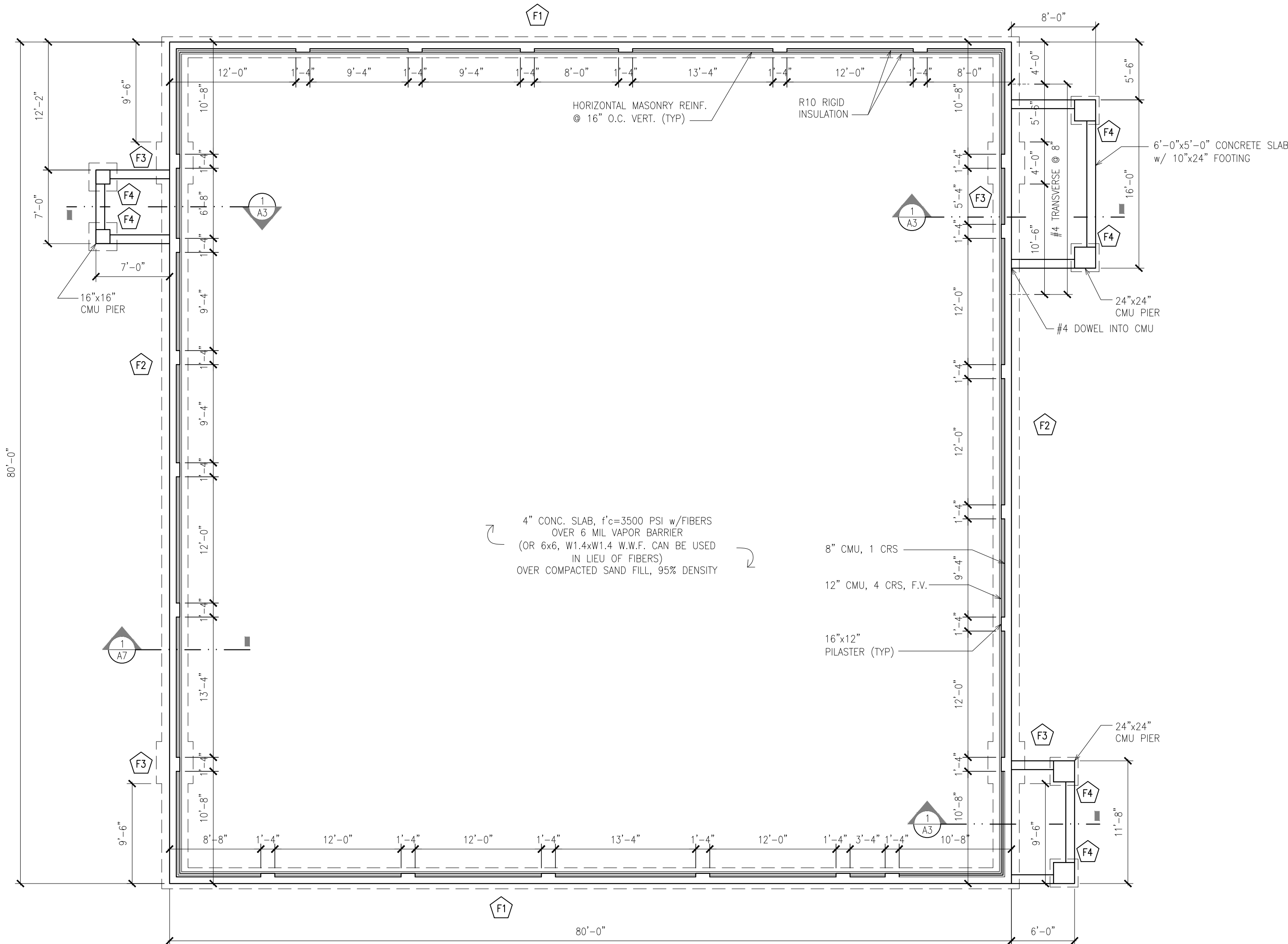
PROVIDE COMPLETELY GROUTED UNITS IN MASONRY AND REINFORCING, AND AS NOTED: UNDER ANY CHANGE OF WALL THICKNESS, I.E.: UNDER LINTEL, BEAM BEARING, OR BEARING POINTS; AND AT VERTICAL BAR REINFORCING.

COMPLY WITH MECHANICAL CONTRACTOR AND ENGINEER ON UNDER FLOOR PLUMBING, MECHANICAL AND ELECTRICAL ITEMS.

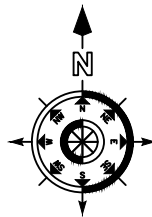
COMPLY WITH ELECTRICAL CONTRACTOR ON GROUNDING ROD CONNECTION TO FOUNDATION.

CALL MISSIDIG, 1-800-482-7171, 72 HOURS (3 WORKING DAYS) BEFORE THE START OF CONSTRUCTION.

FOOTING SCHEDULE			
No.	SIZE	REINFORCEMENT	REMARKS
F1	24"x12" CONTINUOUS	(3) #4 CONTINUOUS	
F2	30"x12" CONTINUOUS	(4) #4 CONTINUOUS	
F3	42"x48"x12"	(7) #4 SHORT, (6) #4 LONG	
F4	32"x32"x12"	(4) #4 EA. DIRECTION	



FLOOR: 6,400 SF      SCALE: 1/8"=1'-0"



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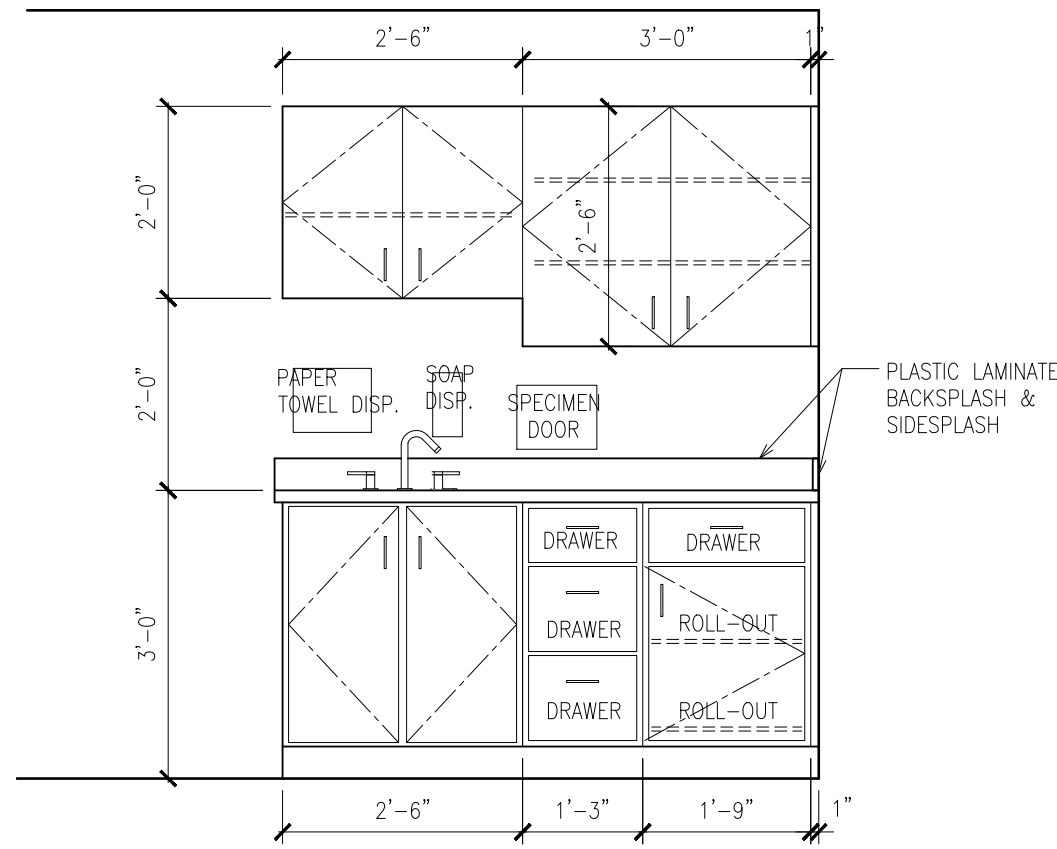
# FOUNDATION PLAN

ALCONA HEALTH CENTER  
1209 U.S. 23 NORTH  
ALPENA, MICHIGAN 49707

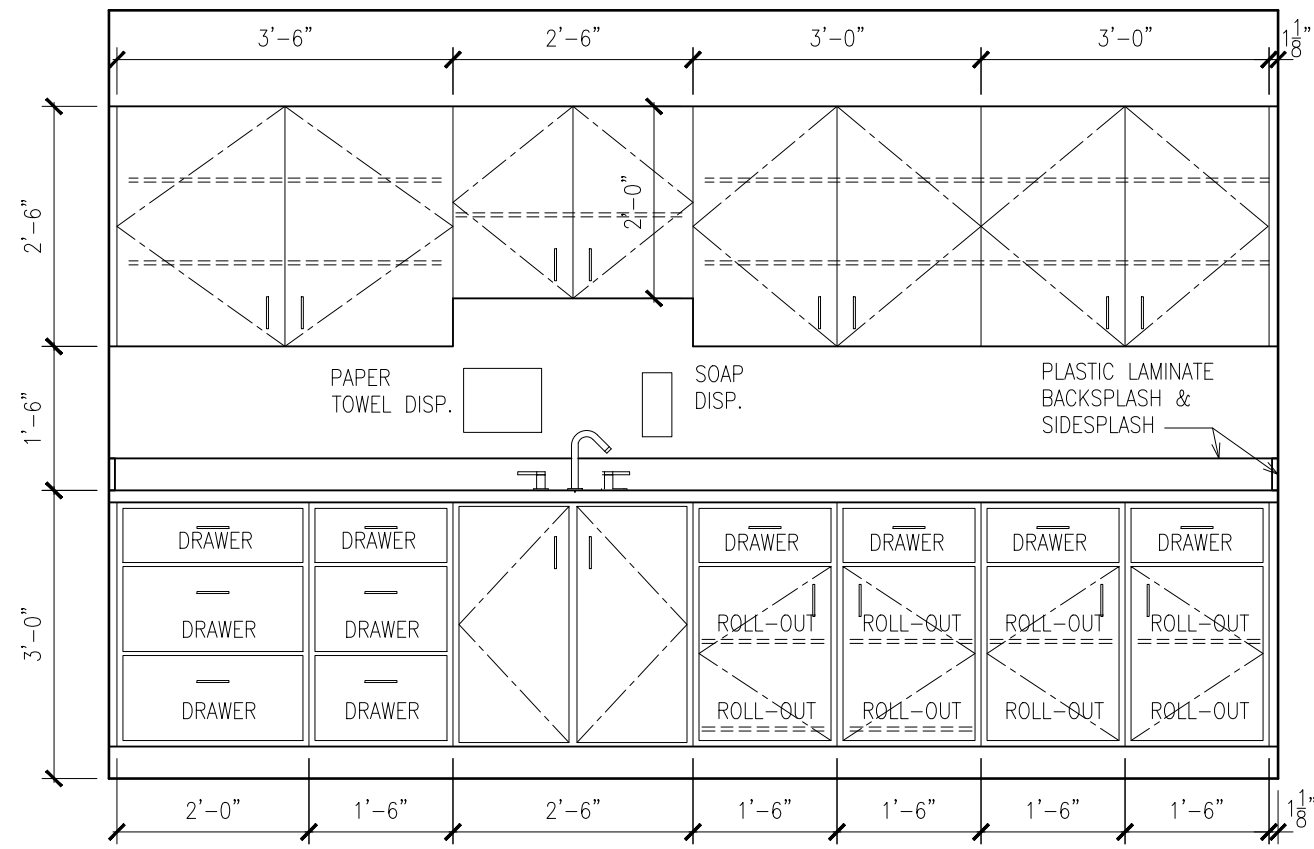
PROJECT	ISSUED	_____
	REVIEW	DEC. 22, 2022
	BID	MAR. 20, 2023
ENGINEER		_____
DESIGNER		_____
JOB NUMBER		_____
		2211.02
SHEET NO.		_____

A3

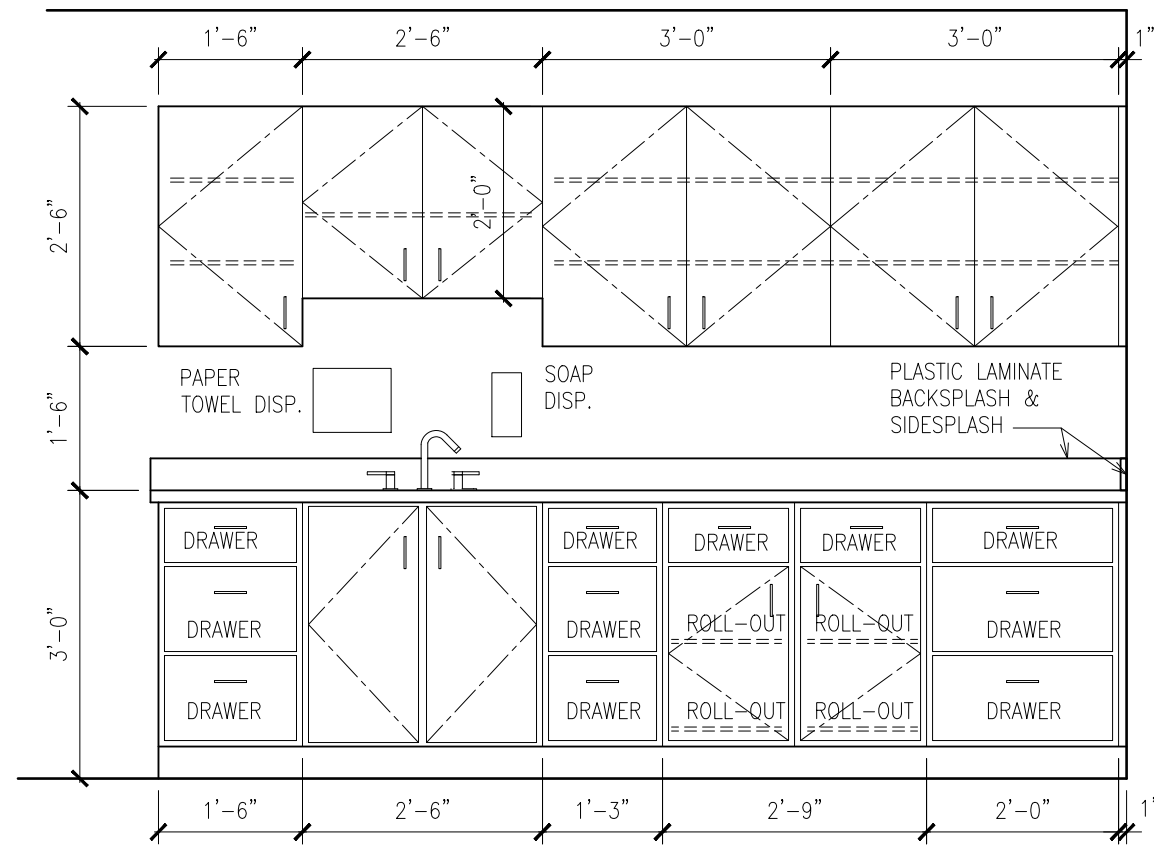




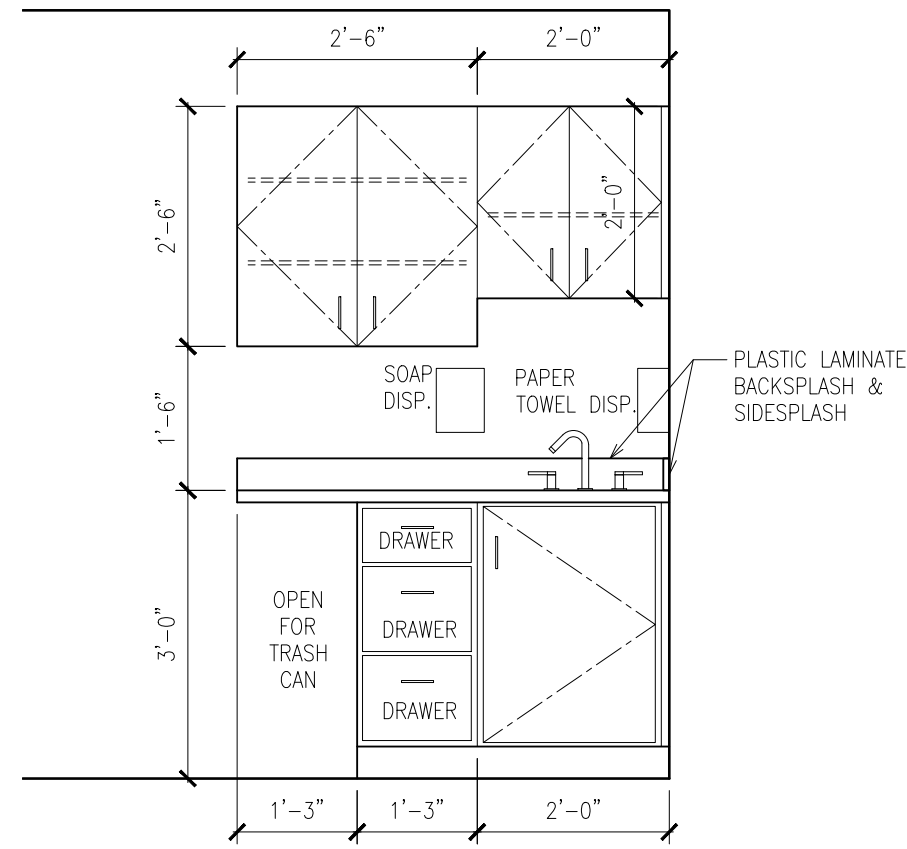
ELEVATION 4  
SCALE: 1/2" = 1'-0"



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



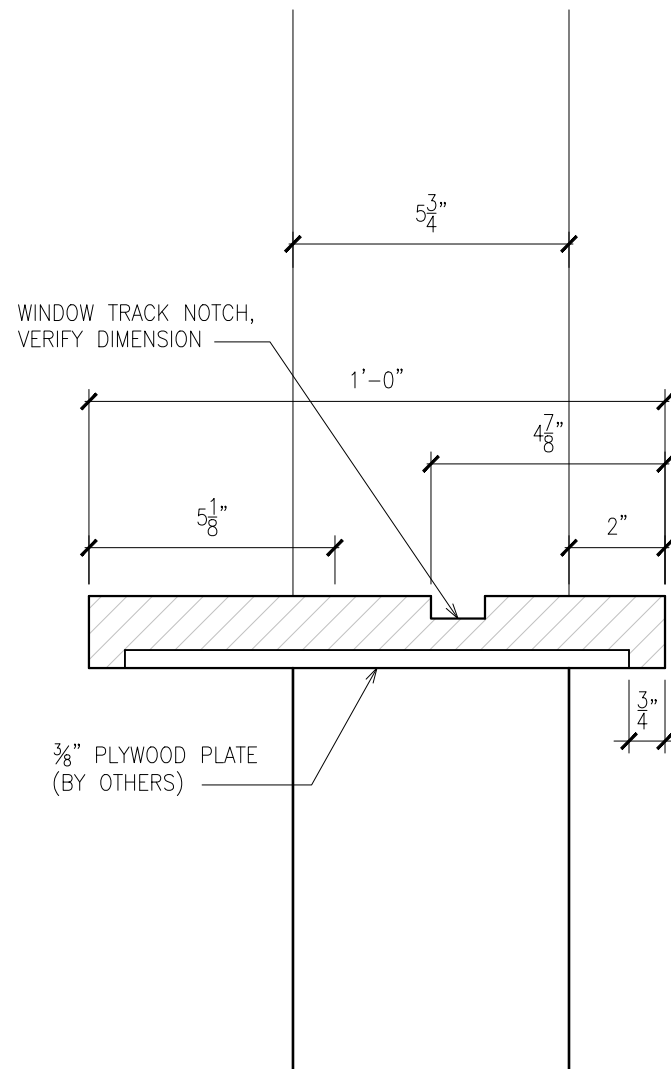
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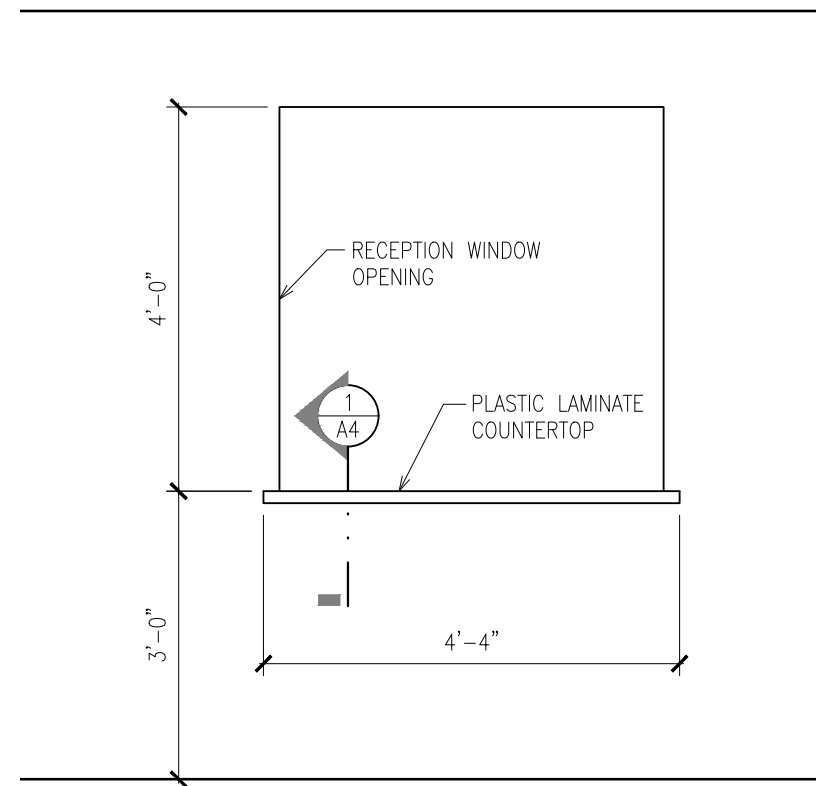
ELEVATION 1  
SCALE: 1/2" = 1'-0"

MANUFACTURED CASEWORK NOTES

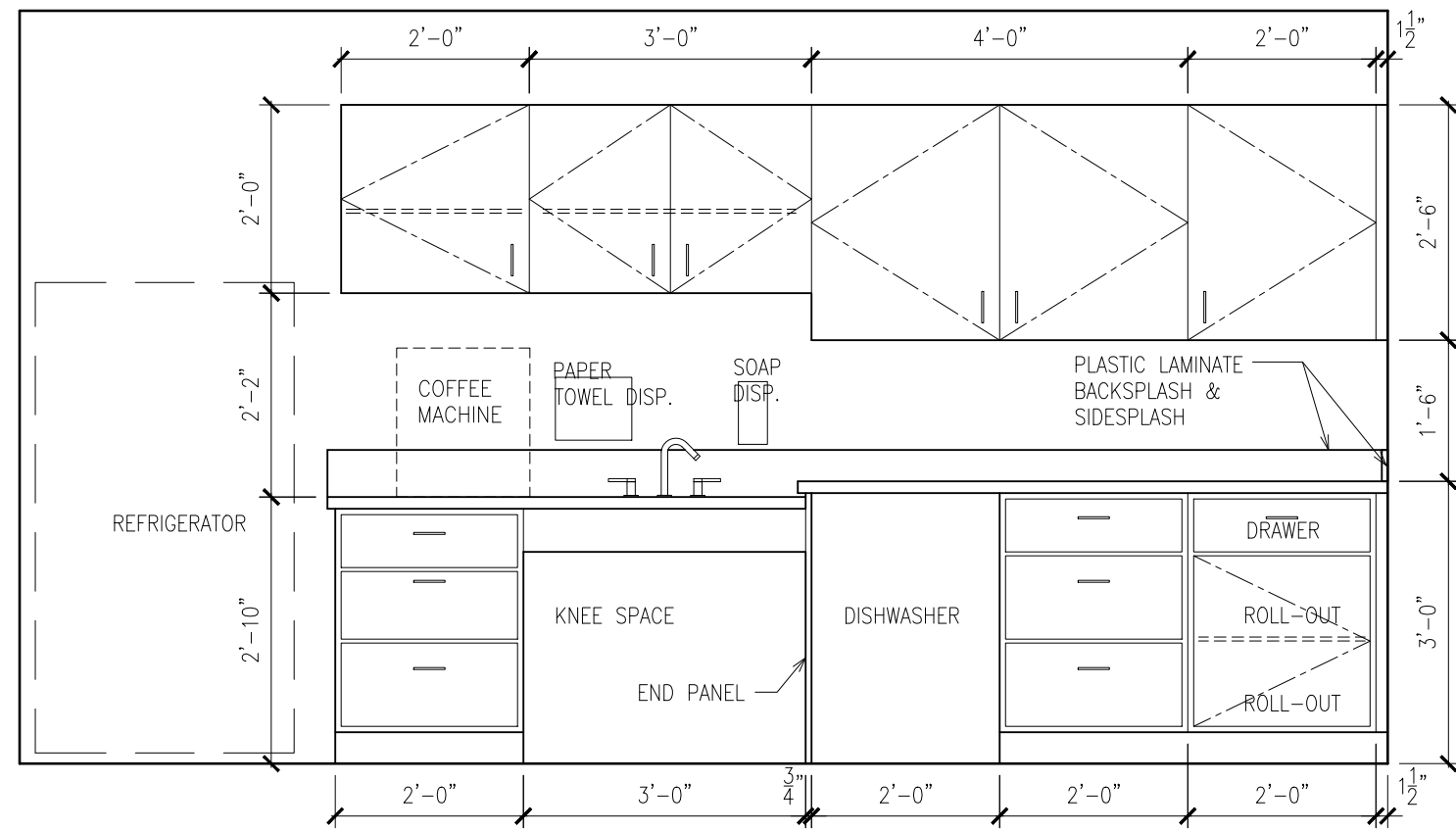
1. THE EXPOSED SURFACES OF THE MANUFACTURED CASEWORK WILL BE PLASTIC LAMINATE, COLOR TO BE SELECTED BY THE OWNER FROM THE MANUFACTURER'S STANDARD COLORS. THE INTERIOR OF THE CABINET AND THE DRAWER BOXES WILL BE WHITE MELAMINE FINISH.
2. EXPOSED SURFACES OF CABINETS ARE PLASTIC LAMINATE, TO BE SELECTED FROM STANDARD COLORS
3. NOMINAL DEPTH OF BASE CABINETS IS 24" AND OF UPPER CABINETS IS 12", UNLESS NOTED OTHERWISE.
4. BOTTOMS AND ENDS OF CABINETS, AND SHELVES: 3/4" PARTICLEBOARD, PLASTIC LAMINATE FACED ON EXPOSED AND SEMI-EXPOSED SURFACES.
5. BACKS OF CABINETS: 1/2" PARTICLEBOARD; PLASTIC LAMINATE FACED ON EXPOSED AND SEMI-EXPOSED SURFACES
6. DRAWER FRONTS: 3/4" PARTICLEBOARD, PLASTIC LAMINATE FACED ON BOTH SIDES
7. DRAWER SIDES AND BACKS: 1/2" PLASTIC LAMINATE FACED PARTICLEBOARD WITH DOVETAIL OR MULTIPLE-DOWEL JOINTS
8. DRAWER BOTTOMS: 1/2" PLASTIC LAMINATE FACED PARTICLEBOARD GLUED AND DADOED INTO FRONT, SIDES, AND BACK OF DRAWERS
9. FILLER STRIPS: PROVIDE AS NEEDED TO CLOSE SPACES BETWEEN CABINETS AND WALLS. FABRICATE THEM FROM THE SAME MATERIAL AND WITH THE SAME FINISH AS THE CABINETS.
10. COUNTERTOP AND BACKSPLASH LAMINATE IS PLASTIC LAMINATE TO BE SELECTED FROM STANDARD COLORS. CORIAN WILL BE SELECTED FROM COLOR GROUP 1.
11. COMPLY WITH NEMA LD 3 FOR PLASTIC LAMINATE
12. COMPLY WITH ASTM D 1037 FOR PLASTIC-LAMINATE SUBSTRATE
13. HARDWARE STYLE WILL BE WIRE PULLS
14. PROVIDE TWO PULLS FOR DRAWERS MORE THAN 24" WIDE
15. PROVIDE HEAVY DUTY, SELF-CLOSING DRAWER SLIDES, DESIGNED TO PREVENT REBOUND WHEN DRAWERS ARE CLOSED, WITH NYLON TIRED, BALL BEARING ROLLERS, AND RATED FOR AT LEAST 100 LBS
16. DOOR EDGE BANDING WILL BE 0.5 MM PVC, COUNTERTOP EDGEBANDING WILL BE 3 MM PVC.



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



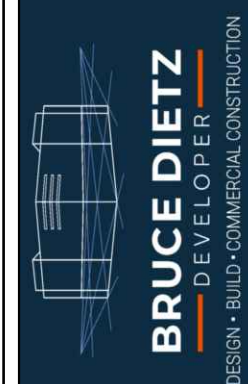
ELEVATION 6  
SCALE: 1/2" = 1'-0"



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

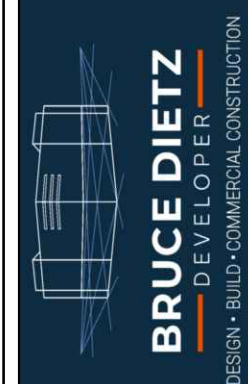
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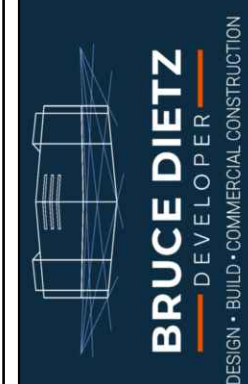
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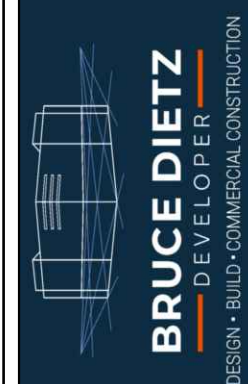
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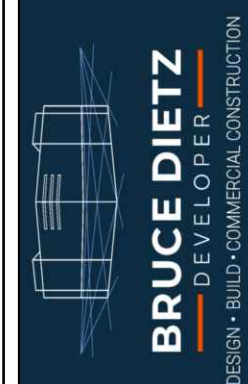
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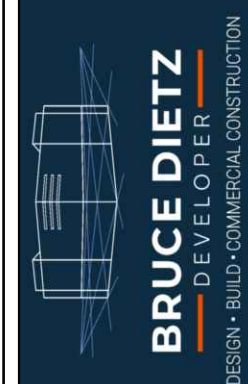
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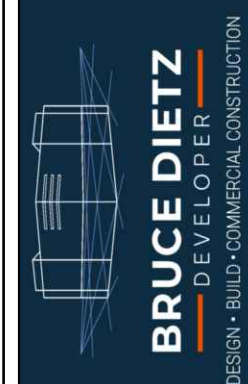
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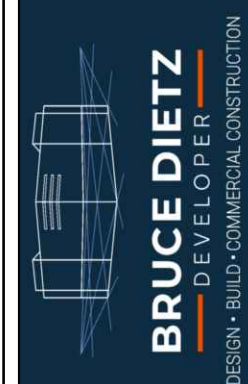
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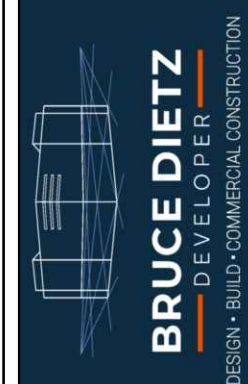
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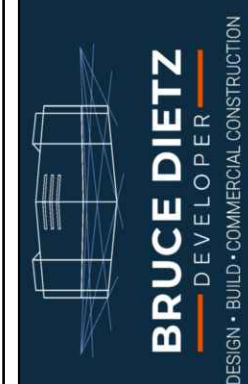
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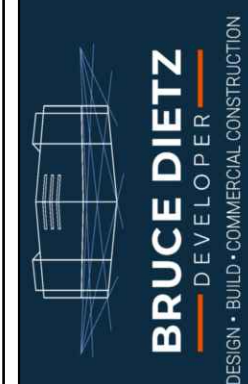
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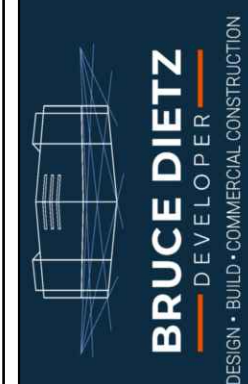
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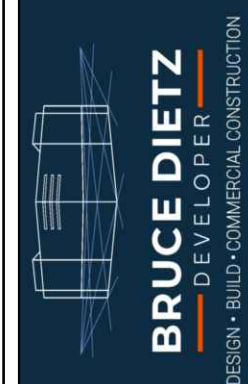
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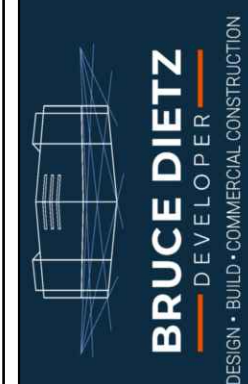
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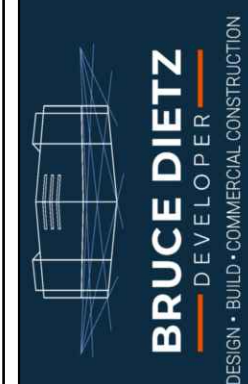
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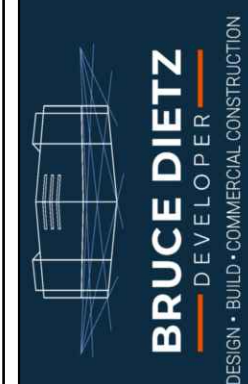
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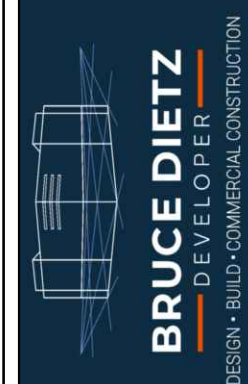
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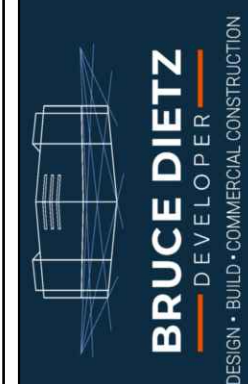
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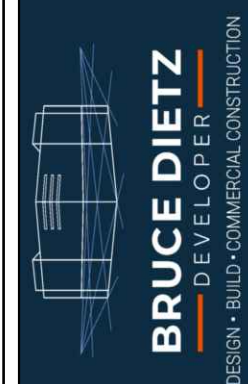
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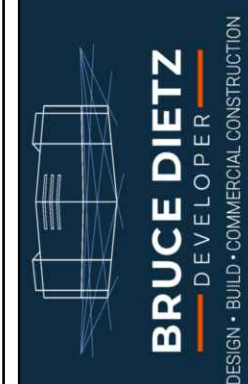
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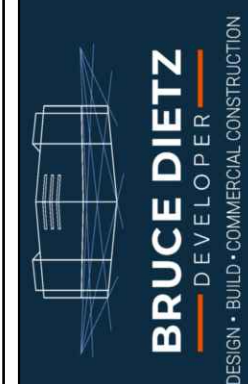
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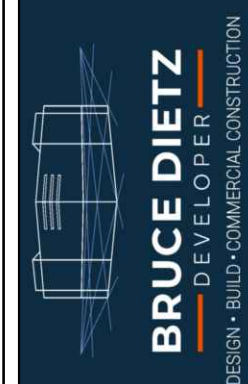
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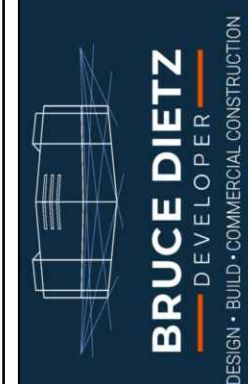
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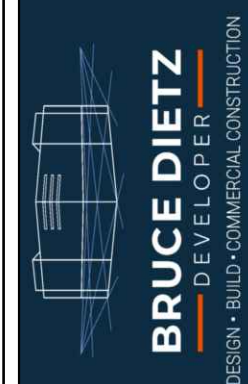
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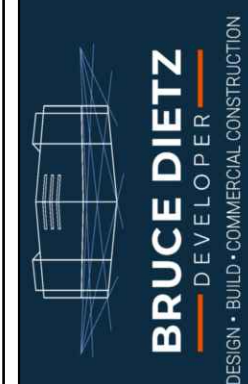
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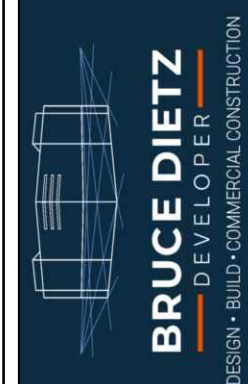
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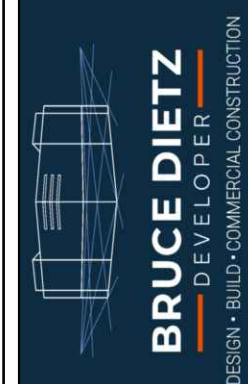
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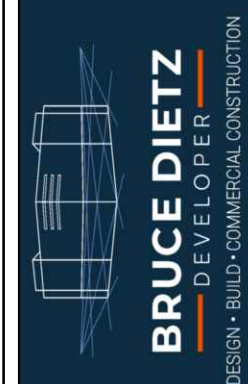
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BRUCE DIETZ  
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ALPENA, MI 49707



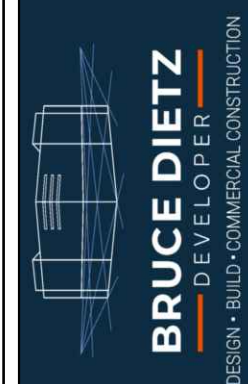
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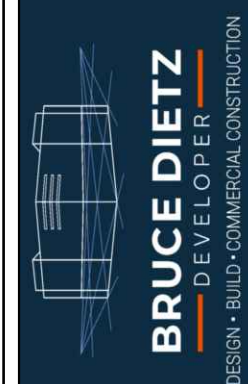
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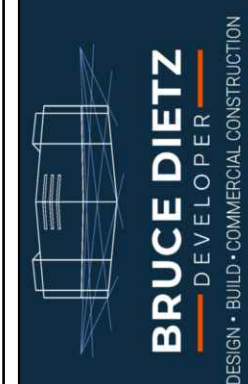
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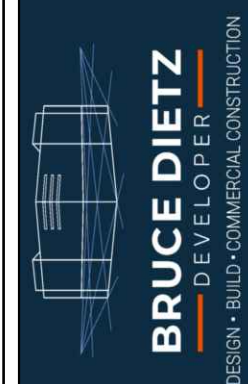
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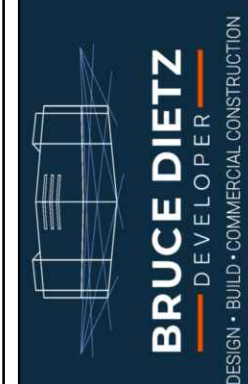
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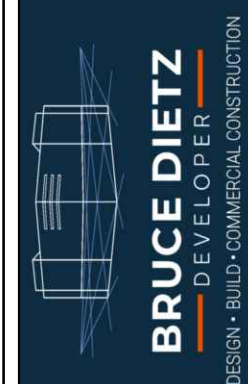
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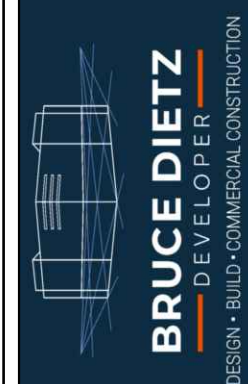
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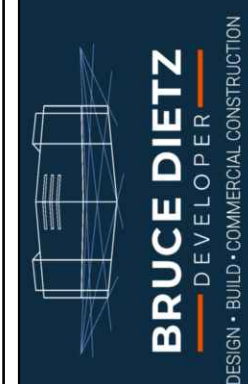
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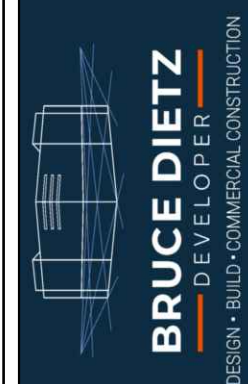
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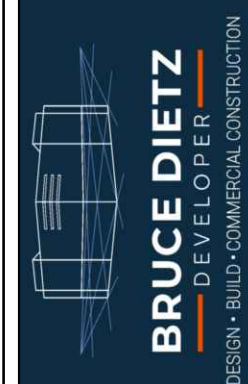
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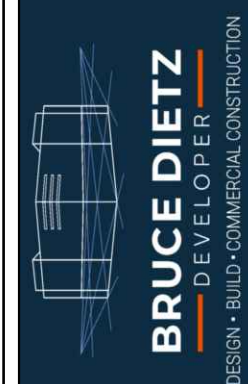
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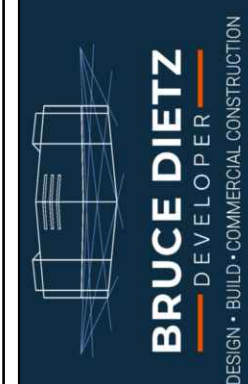
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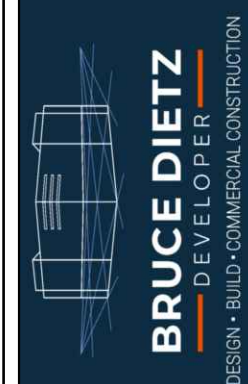
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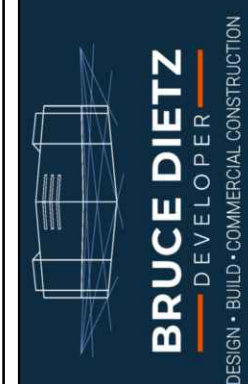
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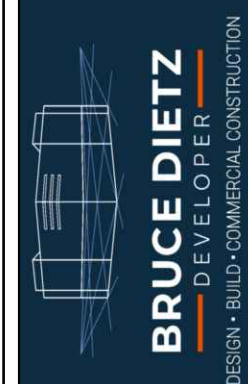
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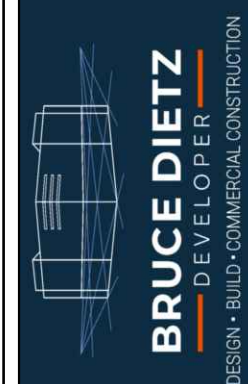
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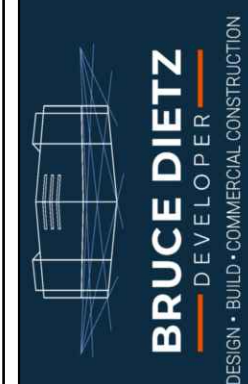
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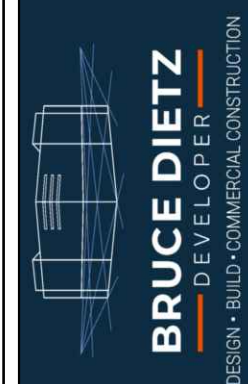
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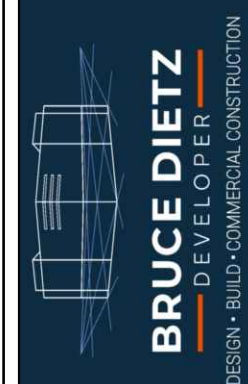
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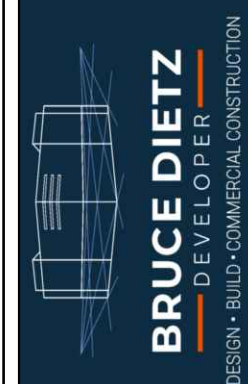
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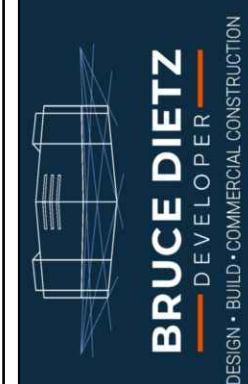
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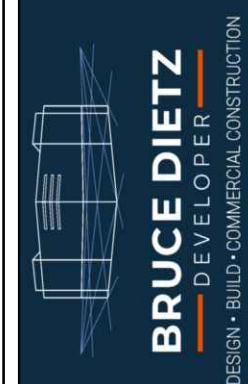
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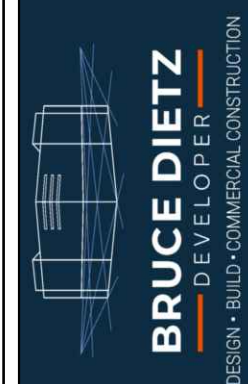
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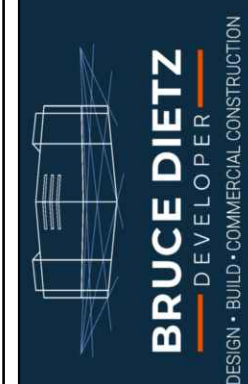
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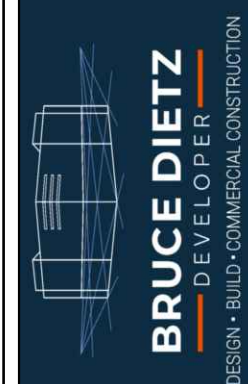
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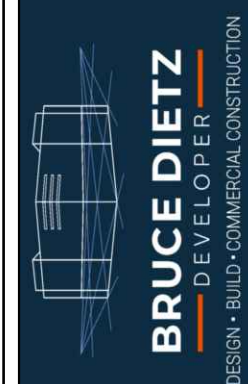
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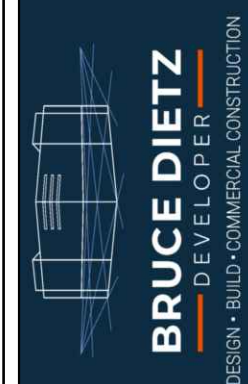
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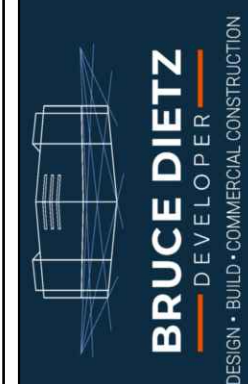
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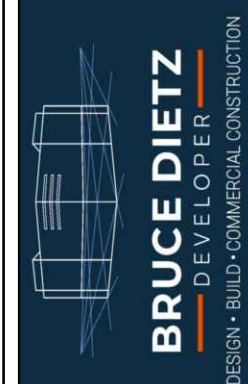
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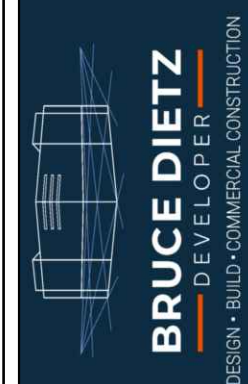
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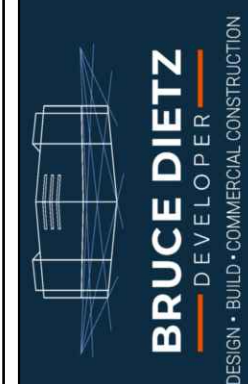
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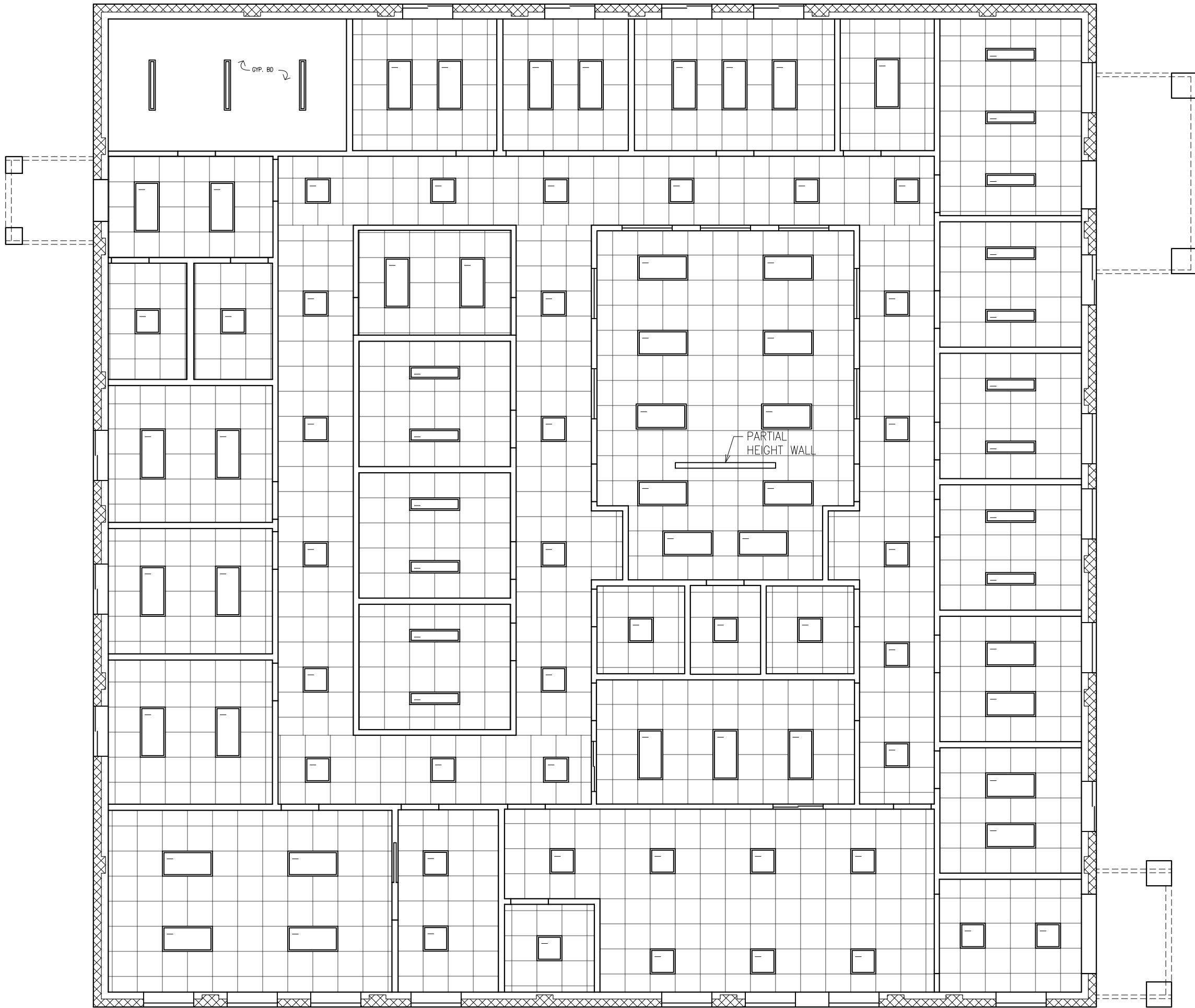
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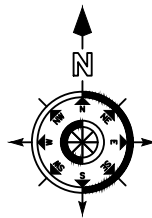
REFLECTED CEILING PLAN NOTES

1. REFER ELECTRICAL DRAWINGS FOR LIGHT FIXTURE INFORMATION.
2. LIGHT FIXTURES WILL NOT BE SUPPORTED BY THE CEILING GRID.
3. VERIFY CEILING GRID LAYOUT WITH ELECTRICAL AND LIGHTING CONTRACTOR.
4. SUSPENDED CEILING TILE WILL BE USG, RADAR STYLE, 24"x24", WITH SLT TAPERED EDGE. GRID WILL BE WHITE, DIRECT SUSPENSION SYSTEM, WITH INTERMEDIATE DUTY STRUCTURAL CLASSIFICATION.
5. SUSPENDED CEILING GRID WILL BE SUSPENDED WITH LAG SCREWS AND TIE WIRE PER THE MANUFACTURER'S RECOMMENDATIONS.
6. VERIFY ANY WALL SCONCE, UPLIGHTING AND SOFFIT LIGHTING WITH OWNER, BEFORE THE START OF CONSTRUCTION.



REFLECTED CEILING PLAN

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



BRUCE DIETZ  
100 RIPLEY  
ALPENA, MI 49707



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REFLECTED CEILING PLAN

ALCONA HEALTH CENTER  
1209 U.S. 23 NORTH  
ALPENA, MICHIGAN 49707

ISSUED DEC 22, 2022  
REVIEW DEC 22, 2022  
BID MAR 20, 2023

DESIGNER  
ENGINEER

JOB NUMBER 2211.02  
SHEET NO.

A5



WALL LINTEL and HEADER SCHEDULE		
MARK	HEADER	BEARING (EACH END)
HDR1	W6x8.5	8" CMU w/ #4 VERTICAL AND FULLY GROUTED
HDR2	(2) L4x3x3/8" LONG LEG UP, BACK TO BACK	8" CMU w/ #4 VERTICAL AND FULLY GROUTED

HEADER NOTES

- ALL MASONRY BEAM BEARING POINTS WILL BE FULLY GROUTED WITH #4 VERT. CONTINUOUS REINFORCEMENT.
- ALL STRUCTURAL STEEL WILL BE A36 GRADE.

TRUSS NOTES

TYPE: PRE-ENGINEERED, PRE-MANUFACTURED

STYLE: 4:12 MAIN ROOF; 6:12 HIP ENDS

LAYOUT: PER TRUSS MANUFACTURER

PITCH: SEE PRINTS

EAVE OVERHANG: 2'-0" FROM CMU

GABLE OVERHANG: 2'-0" FROM CMU

SPACING: 2'-0"

LATERAL BRACING: PER MANUFACTURER, BUILDING OFFICIAL TO INSPECT

HEEL HEIGHT: 12" MINIMUM, MATCH EAVES

LUMBER SPECIES: PER TRUSS MANUFACTURER

DRAFT STOP: PER PRINTS.

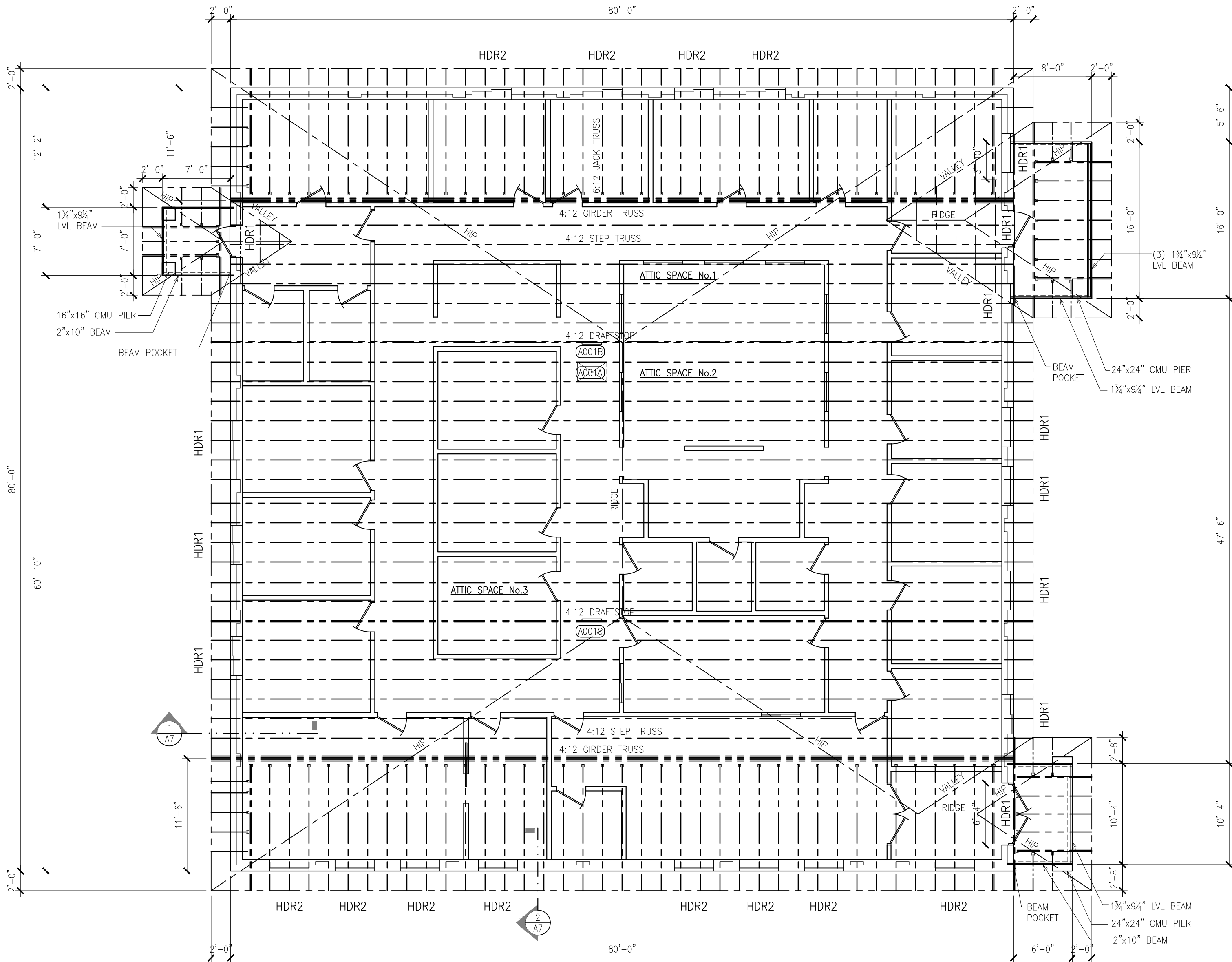
LOADING: 50 PSF LIVE LOAD (GROUND SNOW) TOP CHORD  
10 PSF DEAD LOAD BOTTOM CHORD  
7 PSF DEAD LOAD TOP CHORD

TRUSS DRAWINGS: SUPPLY TRUSS DRAWINGS STAMPED BY A STATE OF MICHIGAN LICENSED ENGINEER TO OWNER AND BUILDING OFFICIAL

INSTALLATION: INSTALL TRUSSES IN STRICT ACCORDANCE WITH THE TRUSS MANUFACTURER'S INSTRUCTIONS. TRUSS MANUFACTURER TO SUPPLY ALL REQUIRED HANGERS FOR TRUSS INSTALLATION

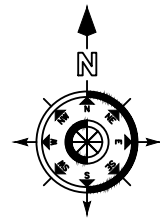
ROOF FRAMING NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE THE START OF CONSTRUCTION.
- TRUSS UPLIFT BRACKETS WILL BE SIMPSON 2.5A OR EQUAL ON ALL TRUSSES EXCEPT GIRDER TRUSS. GIRDER TRUSS WILL HAVE SIMPSON HB OR EQUAL ON EACH FACE OF TRUSS.
- THE ATTIC DRAFTSTOP(S) MUST BE CONTINUOUS FROM CEILING TO ROOF SHEATHING WITH NO OPENINGS. INSTALL PER THE MICHIGAN BUILDING CODE. THE ATTIC DRAFTSTOP SHEATHING SHALL BE NOT LESS THAN 1/2" GYPSUM BOARD, 3/8" PLYWOOD OR OTHER MATERIAL AS APPROVED BY THE LOCAL BUILDING OFFICIAL. ALL MATERIALS SHALL BE ADEQUATELY SUPPORTED. ALL JOISTS SHALL HAVE 2"x4" BLOCKING.
- THE ATTIC ACCESS OPENING SHALL BE 22"x36". LOCATE PER PRINTS, FIELD VERIFY.

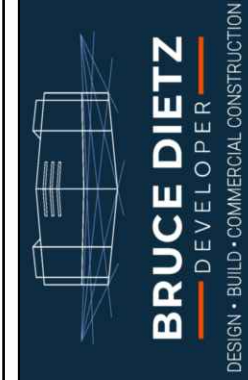


ROOF FRAMING PLAN

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



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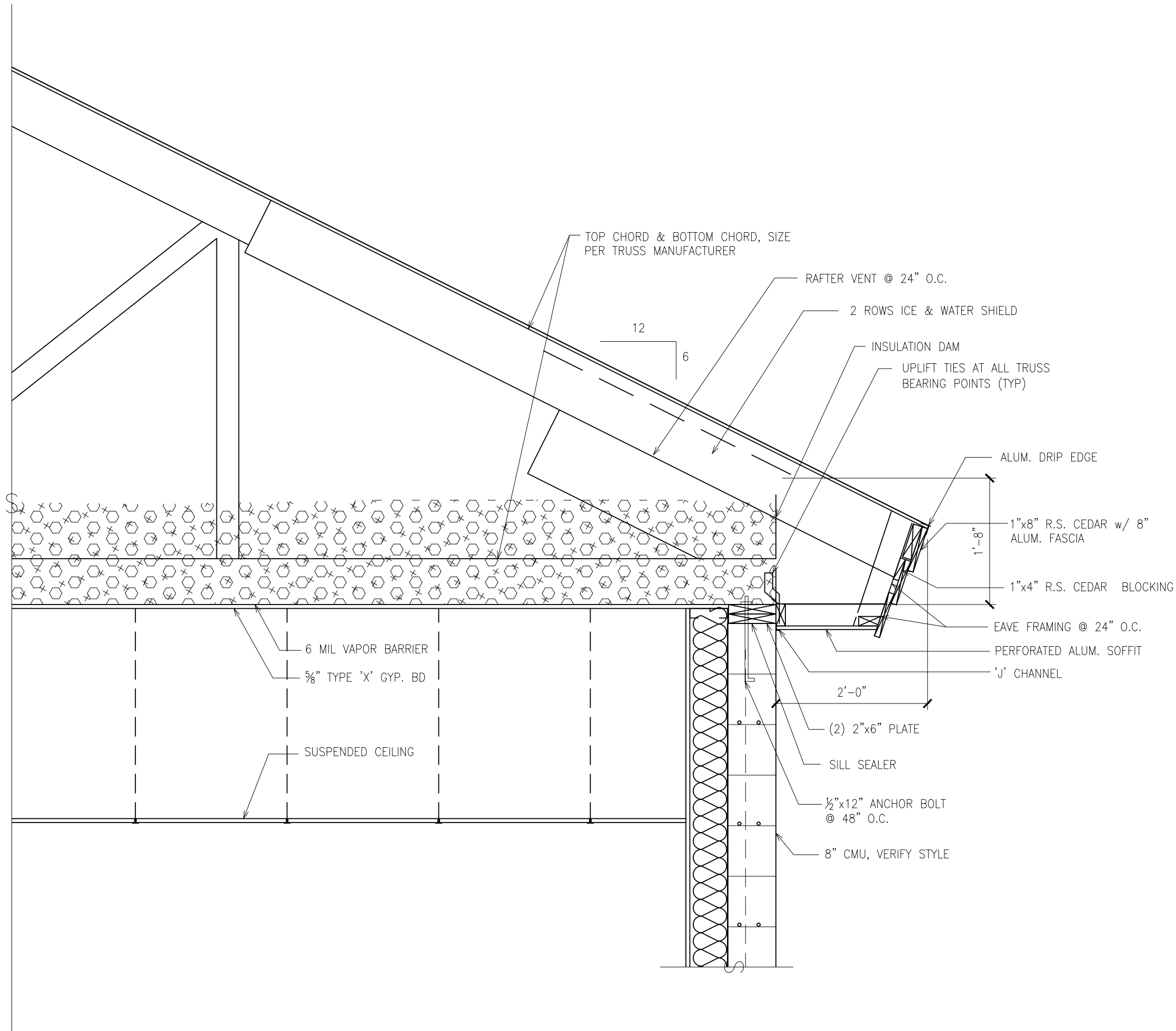


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ROOF FRAMING PLAN

ALCONA HEALTH CENTER  
1209 U.S. 23 NORTH  
ALPENA, MICHIGAN 49707

PROJECT	ISSUED
REVIEW	DEC 22, 2022
SEP	MAR 20, 2023
DESIGNER	
JOB NUMBER	2211.02
SHEET NO.	



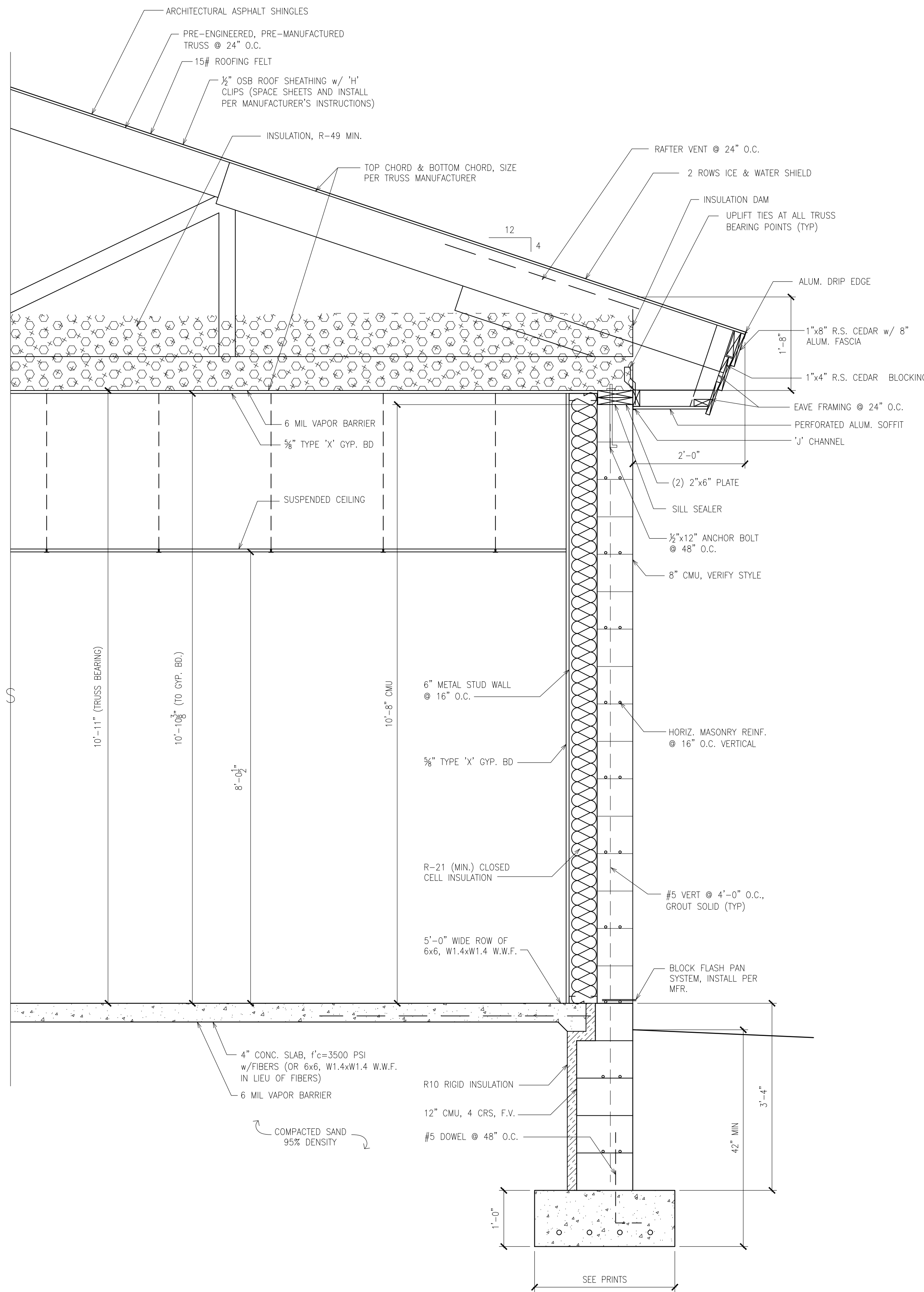
## SECTION

2

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

### FRAMING NOTES

- ALL FRAMING LUMBER 2"x4" THROUGH 2"x8" WILL BE SPF No. 2 & BETTER; ALL FRAMING LUMBER 2"x10" AND 2"x12" WILL BE HEM-FIR, No. 2 & BETTER. DIMENSIONAL FRAMING MATERIAL SHALL BEAR THE GRADE MARK OF AN APPROVED AGENCY, KILN DRIED. ALL LVL BEAMS AND COLUMNS SHALL BE AS NOTED.
- ALL ENGINEERED LUMBER BEAMS WILL BE ROSEBERG FOREST PRODUCTS RIGIDLAM LVL, 3100 FB, 2.1E BEAMS (OR EQUAL), UNLESS OTHERWISE NOTED.
- INSTALL TRUSS UPLIFT BRACKET PER TRUSS MANUFACTURER AND THE LOCAL BUILDING OFFICIAL.
- SEE HEADER SCHEDULE FOR EXTERIOR BEARING WALLS HEADERS.
- CONTRACTOR WILL INSTALL ALL BLOCKING AND BACKERS AS REQUIRED FOR ALL SURFACE-MOUNTED ITEMS SUCH AS, BUT NOT LIMITED TO: GRAB BARS, LIGHT FIXTURES, MIRRORS, TOILET PAPER HOLDERS, PAPER TOWEL DISPENSERS, TOWEL BARS, CURTAIN RODS, CABINETS, SINKS, COAT RACKS, ETC.
- CONTRACTOR WILL USE JOIST HANGERS, JOIST ANGLES, AND ANY OTHER METAL CONNECTORS AS REQUIRED FOR A COMPLETE JOB. CONTRACTOR WILL USE THE PROPER CONNECTOR WITH AN ADEQUATE LOAD RATING FOR THE PROPER USAGE. INSTALL PER THE MANUFACTURER'S RECOMMENDATIONS WITH THE CORRECT AMOUNT AND TYPE OF FASTENERS.
- CONTRACTOR WILL INSTALL ADEQUATE BLOCKING AND/OR CRIPPLES IN ALL WALLS AND UNDER ALL HEADERS AND BEAMS TO TRANSFER ALL LOADS TO THE FOUNDATION.
- INSTALL FIRESTOPPING (OR FIREBLOCKING) AT ALL INTERCONNECTIONS BETWEEN VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS OVER CABINETS, DROP CEILINGS, COVE CEILINGS, STAIRWAY STRINGERS, AND SIMILAR LOCATIONS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD BEFORE START OF CONSTRUCTION.
- REFER TO ROOF FRAMING PLAN FOR ATTIC SEPARATION AREAS & ATTIC ACCESS LOCATIONS.

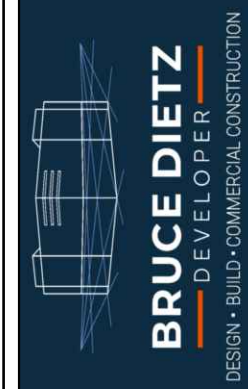


## SECTION

1

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## BUILDING SECTIONS

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1209 U.S. 23 NORTH  
ALPENA, MICHIGAN 49707

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REVIEW	DEC 22, 2022
SD	MAR 20, 2023
DESIGNER	
DESIGNER	
JOB NUMBER	2211.02
SHEET NO.	

A7



ROOM FINISH SCHEDULE											
RM No.	ROOM NAME	FLOOR	BASE	WALLS				CEILING		REMARKS	
				NORTH	EAST	SOUTH	WEST	MAT'L	HT.		
1001	ENTRANCE		MAT	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	48" FRP AT SINK
1002	WAITING		CARP	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1006	RESTROOM No.1		VINYL	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1011	HALLWAY No.1		CARP	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1012	HALLWAY No.2		CARP	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1013	HALLWAY No.3		CARP	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1014	HALLWAY No.4		CARP	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1020	FRONT OFFICE		CARP	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
125	LAB/MEDS REDERRAL		CARP	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1026	EXAM No.1		VINYL	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1027	EXAM No.2		VINYL	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1028	EXAM No.3		VINYL	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1029	BEHAVIORAL HEALTH		CARP	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1030	TREATMENT		VINYL	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1040	NURSE STATION		CARP	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1044	LAB		VINYL	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1045	BIOHAZARD		VINYL	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1046	RESTROOM No.2		VINYL	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	48" FRP AT SINK
1047	RESTROOM No.3		VINYL	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	48" FRP AT SINK
1050	IT CLOSET		VINYL	V	GYP/PLY	GYP/PLY	GYP/PLY	GYP/P	SUSP	9'-0"	
1052	PROVIDER OFFICE		CARP	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1053	PROVIDER OFFICE		CARP	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1054	SITE OFFICE		CARP	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1055	STAFF ENTRANCE		MAT	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1057	RESTROOM No.2		VINYL	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	48" FRP AT SINK
1058	RESTROOM No.3		VINYL	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	48" FRP AT SINK
1060	MECHANICAL & JANITOR CLOSET		CONC	V	GYP/P	GYP/P	GYP/P	GYP/P	12'-2"	48" FRP AT SINK	
1065	STERILIZATION		VINYL	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1066	EXAM No.4		VINYL	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1067	EXAM No.5		VINYL	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1068	EXAM No.6		VINYL	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1070	CARE MANAGER		CARP	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1071	TELE-HEALTH		CARP	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1072	BEHAVIORAL HEALTH		CARP	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1080	STAFF ROOM/GROUP VISIT		CARP	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	
1085	BREAKROOM		VINYL	V	GYP/P	GYP/P	GYP/P	GYP/P	SUSP	9'-0"	

ROOM FINISH NOTES

1. KEY: CARP = CARPET w/ PAD; MAT = FLUFF CORD CARPET TILE; V = 4" VINYL BASE; GB/P = GYPSUM BOARD AND PAINT; SUSP = SUSPENDED ACOUSTICAL TILE CEILING; PLY/GYP = 3/4" FIRE RETARDANT PLYWOOD OVER FIRE TAPED GYPSUM BOARD; CONC = CONCRETE w/SEALER.
2. ALL CEILINGS WILL RECEIVE 1 LAYER 5/8" TYPE "X" GYPSUM BOARD AT TRUSS BOTTOM CHORD.
3. ALL INTERIOR AND EXTERIOR WALLS WILL RECEIVE 5/8" TYPE "X" FIRESHIELD GYPSUM BOARD. GYPSUM BOARD WILL BE FULL HEIGHT ON ALL WALLS. INSTALL PER THE MANUFACTURERS INSTRUCTIONS.
4. ALL INTERIOR GYPSUM BOARD WILL BE TAPED AND FINISHED, READY FOR PAINT, EXCEPT FOR AREAS ABOVE SUSPENDED CEILING, WHICH CAN BE TAPED ONLY.
5. ALL INTERIOR GYPSUM BOARD WILL BE PRIMED BY THE PAINTER, THEN SPOTTED AND CHECKED BY THE PAINTER, DRYWALLER, AND GENERAL CONTRACTOR BEFORE FINISH PAINT IS APPLIED.
6. WINDOW JAMBS WILL BE GYPSUM BOARD. WINDOW SILLS WILL BE SOLID SURFACE.
7. INTERIOR TRIM WILL RECEIVE THREE (3) COATS OF FINISH. FILL ALL NAIL HOLES WITH FILLER TO MATCH FINISH.
8. ALL PAINTED GYPSUM BOARD/DRYWALL WILL RECEIVE ONE PRIME COAT AND TWO FINISH COATS.
9. HOLLOW METAL FRAMES SHALL BE SHOP PRIMED.
10. DOOR AND WINDOW FRAMES WILL RECEIVE THREE (3) COATS OF FINISH.
11. ALL RESTROOMS REQUIRE A SIGN ON THE WALL ADJACENT TO THE DOOR PER THE BARRIER FREE CODE OF THE STATE OF MICHIGAN.
12. INSTALL 3/4" SOUND INSULATION IN ALL WALLS PER THE PRINTS.
13. PUBLIC RESTROOM WILL HAVE THE FOLLOWING INSTALLED PER THE STATE OF MICHIGAN BARRIER FREE CODE AND THE AMERICAN'S WITH DISABILITIES ACT:  
18", 36" & 42" GRAB BARS  
ONE TOILET PAPER DISPENSER / SHELF  
ONE SOAP DISPENSER  
ONE PAPER TOWEL DISPENSER  
ONE 24"x36" MIRROR  
ONE CLOTHES HOOK  
ONE DIAPER CHANGING TABLE (WHERE NOTED ON PLANS)
14. INSTALL THE FOLLOWING ACCESSORIES AT ALL SINK LOCATIONS:  
ONE SOAP DISPENSER  
ONE PAPER TOWEL DISPENSER
15. THERE WILL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
16. CEILING HEIGHTS INDICATED ON THE ROOM FINISH SCHEDULE ARE FOR THE LOWEST MAJOR AREA OF CEILINGS IN THE ROOM. REFER TO PLANS, SECTIONS, AND DETAILS WHERE APPLICABLE FOR ADDITIONAL CEILING HEIGHTS WITHIN THE ROOM.
17. WHEREVER A FLOOR, WALL, OR CEILING SURFACE OF A ROOM IS SCHEDULED TO BE FINISHED, ALL UNFINISHED ITEMS WITHIN THAT SURFACE (FRAMES, DOORS, TRIM, PANEL COVERS, ETC.) SHALL BE FINISHED, UNLESS INDICATED OTHERWISE. FINISH FOR SUCH ITEMS SHALL BE AS APPLICABLE TO SPECIFIC MATERIAL. DO NOT FINISH PRE-FINISHED ITEMS, UNLESS INDICATED OTHERWISE.
18. TRANSITIONS BETWEEN ABUTTING DISSIMILAR MATERIALS SHALL BE SMOOTH AND LEVEL WITHOUT EXPOSED EDGES NOR ABRUPT CHANGES IN ELEVATION. PROVIDE AND INSTALL TRANSITION DEVICES OF AN APPROPRIATE MATERIAL AND PROFILE AS REQUIRED TO ACHIEVE THIS REQUIREMENT. WHEREVER POSSIBLE, LOCATE FLOORING MATERIAL TRANSITIONS BETWEEN ADJACENT ROOMS BENEATH THE DOORWAY(S) IN ITS CLOSED POSITION, UNLESS INDICATED OTHERWISE.
19. CEILING BULKHEADS: BOTH HORIZONTAL AND VERTICAL SURFACES SHALL BE FINISHED THE SAME UNLESS INDICATED OTHERWISE.
20. ALL COLORS, PATTERNS, AND TEXTURES OF FINISHES SHALL BE AS SELECTED BY THE OWNER.
21. FLOOR MATERIAL CHANGES SHALL OCCUR BENEATH DOORS/THRESHOLDS.
22. WALL DESCRIPTIONS (INCLUDING WALLS, PARTITIONS, ASSEMBLIES, SEPARATIONS, ENCLOSURES, ETC.) ON THIS DRAWING GENERALLY DESCRIBE THE WALL CONDITIONS. REFER TO PLANS, SECTIONS, AND DETAILS WHERE APPLICABLE FOR WALL DESCRIPTIONS PERTAINING TO RATINGS, SOUND AND AIR CONTROL.
23. VERIFY CEILING GRID LAYOUT WITH ELECTRICAL AND LIGHTING CONTRACTOR.
24. SUSPENDED CEILINGS ARE PER THE PRINTS. PROVIDE TILE HOLD DOWN CLIPS AS REQUIRED.
25. PROVIDE FILLER STRIP(S) BETWEEN WALL AND CABINETRY AS REQUIRED.FILLER STRIPS SHALL MATCH CASEWORK IN ALL RESPECTS. SIZE OF FILLERS SHALL BE 2" MAX.
26. ALL CARPET ON FLOORS WILL BE NOT LESS THAN CLASS II, PER THE MICHIGAN BUILDING CODE.
27. OFFICE DOORS WILL HAVE A COAT HOOK ON THEM
28. OWNER TO VERIFY ALL ROOM FINISHES PRIOR TO THE START OF CONSTRUCTION.
29. LOCKER ROOM LOCKERS ARE REPUBLIC STORAGE, 24"x24"x72" SINGLE TIER, COLOR MIDNIGHT BLUE #61.
30. PORTABLE FIRE EXTINGUISHERS WILL BE AMEREX, MODEL B402T OR EQUAL, FIRE EXTINGUISHER CABINETS WILL BE LARSON MODEL 2409-R3-F6, ARCHITECTURAL SERIES, ROLLED EDGE, OR EQUAL.

WINDOW SCHEDULE					
No.	QTY	MANUFACTURER & STYLE	ROUGH OPENING	HEAD HT	REMARKS
A	8	QUAKER K200 FIXED SASH	48"x48"	7'-4"	
B	9	QUAKER K200 SLIDING	48"x48"	7'-4"	
C	4	QUAKER K200 FIXED SASH	48"x24"	7'-4"	
D	1	SLIDING RECEPTION WINDOW	48"x48"	7'-0"	LOCKING HARDWARE
E	7	FIXED SASH TRANSON	48"x24"	7'-0"	GYPSUM BOARD JAMBS

WINDOW NOTES

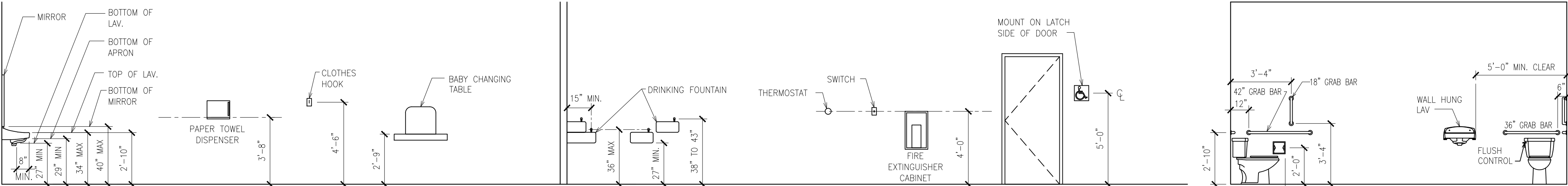
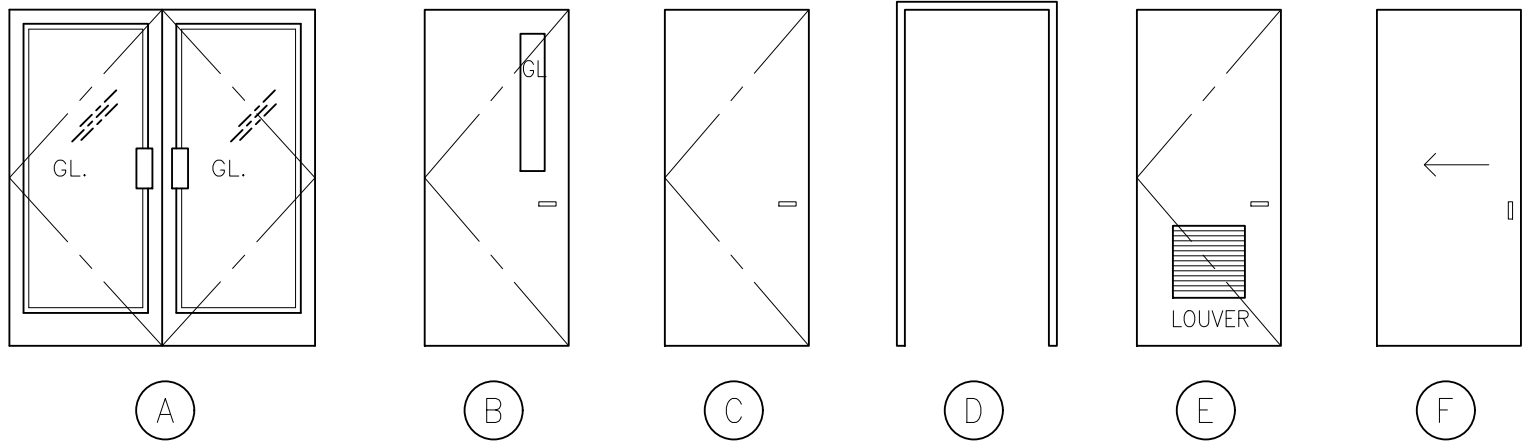
1. ALL EXTERIOR WINDOWS QUAKER K200 SERIES, ALUMINUM FRAMED, AND WILL BE DOUBLE PANE INSULATED LOW E GLASS, WITH STANDARD HARDWARE.
2. ALL OPERABLE EXTERIOR WINDOWS WILL HAVE STANDARD COLOR FRAMED INSECT SCREENS.
3. WINDOW TREATMENTS WILL BE BY OWNER.
4. VERIFY ALL WINDOWS WITH OWNER PRIOR TO THE START OF CONSTRUCTION.

DOOR and FRAME SCHEDULE									
No.	SIZE	DOOR			FRAME		HARDWARE	REMARKS	
		MAT'L	TYPE	GLASS	MAT'L	WALL			
1001A	(2) 3'-0"x7'-0"	ALUM	A	FULL	ALUM	FV	PH, PP, LC, PA, W		
1001B	(2) 3'-0"x7'-0"	ALUM	A	FULL	ALUM	4 7/8"	PH, PP, PA		
1005A	3'-0"x7'-0"	WOOD	B	NL	HM	5 3/4"	B, EL, ES, C		
1005B	3'-0"x7'-0"	WOOD	B	NL	HM	5 3/4"	B, EL, ES, C		
1006	3'-0"x7'-0"	WOOD	C	NONE	HM	5 3/8"	B, PVL, C		
1020A	3'-0"x7'-0"	WOOD	B	NL	HM	4 7/8"	B, EL, C		
1020B	3'-0"x7'-0"	WOOD	B	NL	HM	4 7/8"	B, EL, C		
1025	3'-0"x7'-0"	WOOD	B	ML	HM	5 3/8"	B, EL, DS		
1026	3'-0"x7'-0"	WOOD	C	NONE	HM	5 3/8"	B, PL, DS		
1027	3'-0"x7'-0"	WOOD	C	NONE	HM	5 3/8"	B, PL, DS		
1028	3'-0"x7'-0"	WOOD	C	NONE	HM	5 3/8"	B, PL, DS		
1029	3'-0"x7'-0"	WOOD	C	NONE	HM	5 3/8"	B, PL, DS		
1030A	3'-6"x7'-0"	STL	B	NL	HM	FV	B, EL, C, W		
1030B	3'-0"x7'-0"	WOOD	C	NONE	HM	5 3/8"	B, PL, DS		
1044A	3'-0"x7'-0"	NONE	D	-	HM	4 7/8"	-	JAMBED OPENING	
1044B	3'-0"x7'-0"	NONE	D	-	HM	4 7/8"	-	JAMBED OPENING	
1045	3'-0"x7'-0"	WOOD	C	NONE	HM	4 7/8"	B, STO		
1046	3'-0"x7'-0"	WOOD	C	NONE	HM	5 3/8"	B, PL, DS		
1047	3'-0"x7'-0"	WOOD	C	NONE	HM	5 3/8"	B, PL, DS		
1050	3'-0"x7'-0"	WOOD	E	NONE	HM	4 7/8"	B, EL, ES		
1052	3'-0"x7'-0"	WOOD	B	NL	HM	5 3/8"	B, EL, DS		
1053	3'-0"x7'-0"	WOOD	B	NL	HM	5 3/8"	B, EL, DS		
1054	3'-0"x7'-0"	WOOD	B	NL	HM	5 3/8"	B, EL, DS		
1055A	3'-0"x7'-0"	ALUM	A	FULL	HM	FV	PH, ED, LC, ES, C, W		
1055B	3'-0"x7'-0"	ALUM	A	FULL	HM	4 7/8"	PH, ED, C		
1057	3'-0"x7'-0"	WOOD	C	NONE	HM	5 3/8"	B, PVL, C		
1058	3'-0"x7'-0"	WOOD	C	NONE	HM	5 3/8"	B, PVL, C		
1060	3'-0"x7'-0"	WOOD	C	NONE	HM	4 7/8"	B, EL, C		
1065A	3'-0"x7'-0"	NONE	D	-	HM	4 7/8"	-	JAMBED OPENING	
1065B	3'-0"x7'-0"	NONE	D	-	HM	4 7/8"	-	JAMBED OPENING	
1066	3'-0"x7'-0"	WOOD	C	NONE	HM	5 3/8"	B, PL, DS		
1067	3'-0"x7'-0"	WOOD	C	NONE	HM	5 3/8"	B, PL, DS		
1068	3'-0"x7'-0"	WOOD	C	NONE	HM	5 3/8"	B, PL, DS		
1070	3'-0"x7'-0"	WOOD	B	NL	HM	5 3/8"	B, EL, DS		
1071	3'-0"x7'-0"	WOOD	B	NL	HM	5 3/8"	B, EL, DS		
1072	3'-0"x7'-0"	WOOD	B	NL	HM	5 3/8"	B, EL, DS		
1080	3'-0"x7'-0"	WOOD	B	NL	HM	5 3/8"	B, PL, DS		
1085A	3'-0"x7'-0"	WOOD	B	NL	HM	5 3/8"	B, PL, C		
1085B	3'-0"x7'-0"	WOOD	F	NONE	HM	5 7/8"	STD		
A001A	22"x36"	STL	-	NONE	STL	-	STD	BEST ACCESS DOORS BA-PFI-GYP OR EQUAL	
A001B	22"x36"	STL	-	NONE	STL	-	STD	BEST ACCESS DOORS BA-PFI-GYP OR EQUAL	
A001C	22"x36"	STL	-	NONE	STL	-	STD	BEST ACCESS DOORS BA-PFI-GYP OR EQUAL	

DOOR NOTES

1. **HARDWARE KEY:** B = 1½ PAIR BALL BEARING BUTTS; C = HYDRAULIC DOOR CLOSER WITH KEY VALVES FOR BACK CHECK, SPEED, AND LATCHING; DS = WALL-MOUNT OR FLOOR-MOUNT DOOR STOP; LC = LOCK CYLINDER; PP = PUSH AND PULL PLATES; EL = ENTRY LEVER LOCKSET; PL = PASSAGE LEVER LOCKSET; PVL = PRIVACY LEVER LOCKSET; W = WEATHERSTRIP, BARRIER FREE THRESHOLD AND SWEEP; PA = POWER ASSISTED OPERATOR; ES = ELECTRIC STRIKE WITH KEYPAD; STD = STANDARD HARDWARE; PH = PIVOT HINGE.
2. VERIFY FLOOR FINISH BEFORE INSTALLATION OF DOOR FRAMES.
3. VERIFY ALL DOOR HARDWARE WITH OWNER.
4. COORDINATE THE KEYING OF THE LOCKS WITH THE OWNER.
5. ALL DOORS AND FRAMES THAT RECEIVE DOOR CLOSERS SHALL BE REINFORCED WHERE ATTACHMENT IS MADE.
6. PROVIDE CAULK AT INTERIOR LOCATIONS AND SEALANT AT EXTERIOR LOCATIONS BETWEEN ALL FRAMES AND ADJACENT MATERIALS.
7. EXTERIOR ALUMINUM FRAME DOORS WILL HAVE 1" INSULATED GLAZING.
8. HOLLOW METAL FRAMES TYPICAL SHOWN FOR DETAILING PURPOSES, ALUMINUM AS OCCURS. HOLLOW METAL SUPPLIER TO VERIFY WALL THICKNESS AND THROAT SIZE BEFORE ORDERING.
9. EXTERIOR DOOR FRAMES WILL BE NOT LESS THAN 14 GA; INTERIOR DOOR FRAMES WILL NOT BE LESS THAN 16 GA, HOLDING CELL DOOR FRAMES WILL NOT BE LESS THAN 12 GA.
10. WOOD DOORS SOLID CORE DOORS FOR TRANSPARENT FINISH: PREMIUM GRADE, 5-PLY, PARTICLEBOARD CORE; RED OAK, PLAIN SLICED, EDGING MATCHES FACE; PAIRED MATCHING.
11. ALL GLAZING IN DOORS SHALL BE SAFETY GLAZING.
12. LEVERSETS WILL BE MARKS, GRADE II, COMMERCIAL QUALITY LOCKSETS.
13. CLOSERS WILL LCN 1261 OR PDO 5501BCPA, WITH DOGGING FEATURES AND COVERS.
14. BALL BEARING BUTT HINGES WILL HAVE NON-REMOVABLE PINS FOR EXTERIOR AND PUBLIC INTERIOR EXPOSURE.
15. WALL STOPS WILL BE IVES WS33.

DOOR TYPES



MOUNTING HEIGHT SCHEDULE

THE INTENT OF THIS SCHEDULE IS TO ILLUSTRATE THE PROPER MOUNTING HEIGHTS ONLY. THE FIXTURES INDICATED WITHIN THIS SCHEDULE MAY VARY FROM THOSE SPECIFIED OR REQUIRED. REFER TO PLANS, MECHANICAL DRAWINGS, AND/OR PROJECT MANUAL FOR ADDITIONAL INFORMATION.

SCALE: NONE

BRUCE DIETZ  
100 RIPLEY  
ALPENA, MI 49707



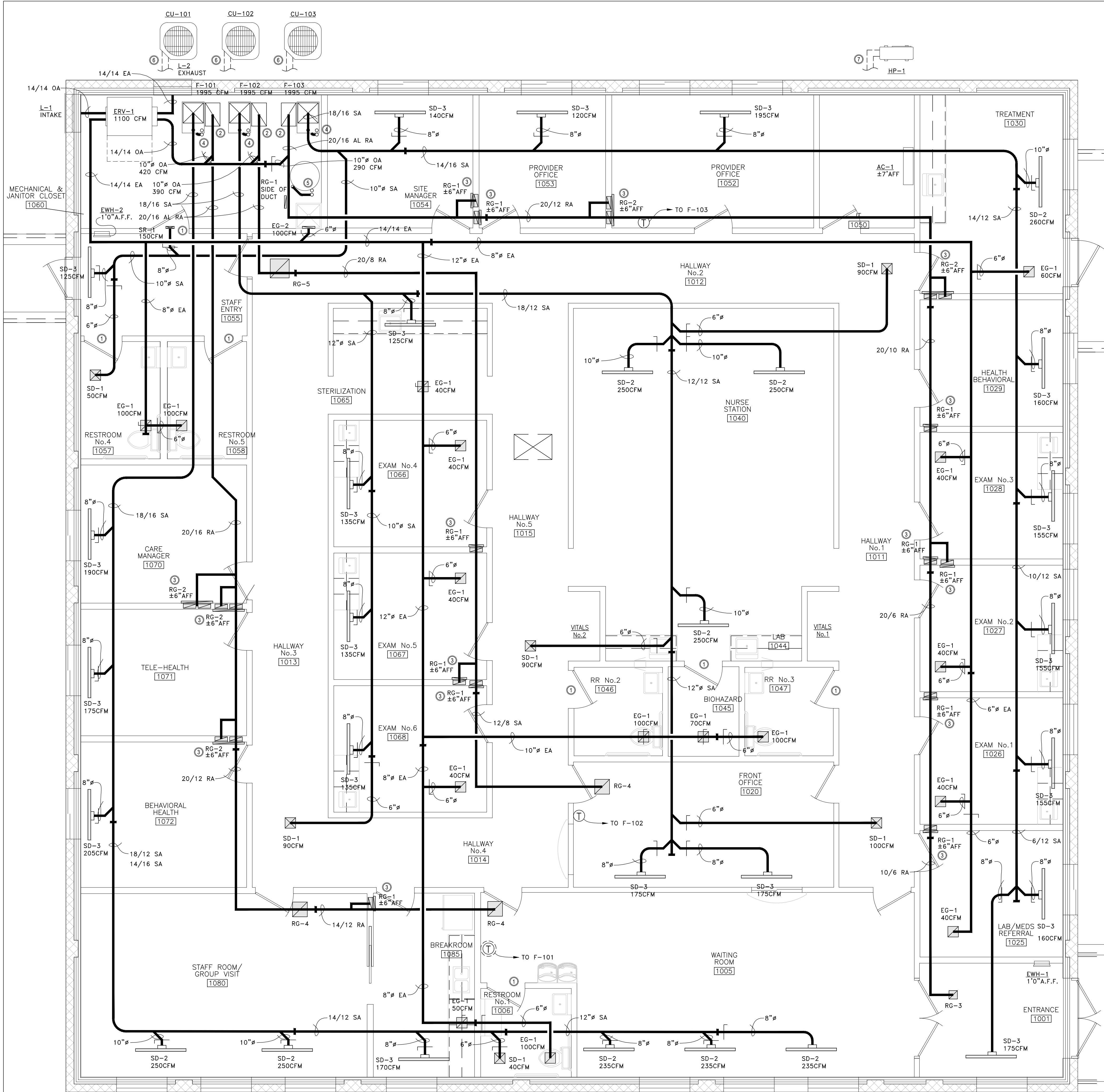
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PROJECT TITLE:  
ROOM FINISH, WINDOW, AND  
DOOR SCHEDULES

ALCONA HEALTH CENTER  
1209 U.S. 23 NORTH  
ALPENA, MICHIGAN 49707

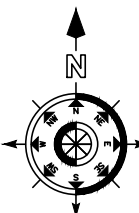
PROJECT  
ISSUED  
REVIEW DEC 22, 2022  
SDP MAR 20, 2023  
DESIGNER  
DESIGNER  
JOB NUMBER  
221102  
SHEET NO.





FIRST FLOOR PLAN - MECHANICAL

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



MECHANICAL GENERAL NOTES

1. ALL WORK SHALL BE INSTALLED PER LOCAL, STATE, & FEDERAL CODES, RULES, ORDINANCES, AND REGULATIONS.
2. REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. ALL DUCT AND EQUIPMENT ELEVATIONS NOTED ON PLANS MEASURED FROM F.F. TO BOTTOM OF DUCT/EQUIPMENT UNLESS OTHERWISE NOTED.
4. ALL DUCTWORK SHALL BE INSULATED ACCORDING TO WRITTEN SPECIFICATIONS UNLESS OTHERWISE NOTED. ALL CONCEALED SUPPLY DUCTWORK SHALL HAVE BLANKET DUCT WRAP INSULATION. ALL EXPOSED SUPPLY DUCTWORK IN CONDITIONED SPACES AND ALL EXHAUST DUCTWORK DO NOT REQUIRE INSULATION. ALL RECTANGULAR RETURN DUCTWORK SHALL HAVE 1" INTERNAL ACOUSTICAL LINER INSULATION AS SPECIFIED ON PLANS.
5. ALL DUCTWORK BEHIND GRILLES AND DIFFUSERS CONNECTIONS SHALL BE PAINTED FLAT BLACK. PAINT INSIDE OF DUCT CONNECTIONS 2'-0" UP STREAM OF FIRST 90 DEGREE ELBOW.
6. ALL WORK SHOWN ON THIS PLAN TO BE COORDINATED WITH ALL OTHER TRADES PRIOR TO FABRICATION AND INSTALLATION.
7. FIELD VERIFY THERMOSTAT AND SENSOR LOCATIONS WITH OWNER. INSTALL SENSORS AT A HEIGHT OF 4'-0" A.F.F.. COORDINATE MECHANICAL SENSOR LOCATIONS WITH OTHER TRADES.
8. ALL DUCT DIMENSIONS ARE INSIDE DIMENSIONS.
9. INSTALLING CONTRACTOR SHALL USE EXTREME CAUTION TO COORDINATE THE EXACT ROUTING AND ELEVATION OF DUCTING SYSTEMS. THIS CONTRACTOR SHALL INSTALL DUCTING SO AS TO NOT INTERFERE WITH THE REMOVAL AND/OR SERVICING OF SYSTEMS.
10. ALL SUPPLY, RETURN AND EXHAUST BRANCH DUCTS SHALL HAVE A BALANCING DAMPER NEAR MAIN.
11. ALL SUPPLY, RETURN AND EXHAUST DUCT ELBOWS SHALL BE SMOOTH RADIUS ELBOWS WITH THE INSIDE RADIUS SAME AS WIDTH OF DUCT UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER. ALL 90° MITERED ELBOWS SHALL HAVE TURNING VANES.
12. EXHAUST TERMINATIONS, PLUMBING VENTS, ETC. TO BE A MINIMUM OF 3FT. VERTICAL CLEARANCE ABOVE OR MINIMUM OF 10FT. HORIZONTAL CLEARANCE FROM FENESTRATION OR EQUIPMENT OUTDOOR AIR INTAKES.
13. ALL SERVICEABLE MECHANICAL EQUIPMENT INSTALLED ON ROOF SHALL BE INSTALLED A MINIMUM OF 10FT FROM ROOF EDGE OR HAVE GUARD RAIL AS REQUIRED BY CODE. MAINTAIN MANUFACTURER RECOMMENDED CLEARANCES.
14. ALL ROOF PENETRATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE ROOF WARRANTY.
15. ALL MECHANICAL DUCTS AND PIPING PENETRATING RATED ASSEMBLIES SHALL BE SEALED AND FIRE-STOPPED TO COMPLY WITH LOCAL REGULATIONS.
16. ALL EXPOSED HVAC INSTALLED AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED. FIELD COORDINATE EXACT HVAC ROUTING WITH STRUCTURAL ELEMENTS, EXISTING SYSTEMS, AND OTHER TRADES.
17. ALL DUCTWORK LOCATED ABOVE BUILDING INSULATION IN ATTIC SPACE SHALL BE INSULATED WITH TWO (2) LAYERS OF 1 1/2" FIBERGLASS INSULATION WITH OFFSET SEAMS AND WITH VAPOR FOIL BARRIER, REFER TO SPECIFICATIONS. LOCATE DUCTWORK BELOW / COVERED WITH BUILDING INSULATION WHEREVER POSSIBLE. COORDINATE EXACT ROUTING WITH STRUCTURAL ELEMENTS.

MECHANICAL PLAN NOTES

1. DOOR(S) TO SPACE SHALL BE UNDERCUT A MINIMUM OF 1" TO ALLOW RETURN / EXHAUST / TRANSFER AIRFLOW, SEE ARCHITECTURAL PLANS.
2. PROVIDE INTERNAL ACOUSTICALLY LINED RETURN AIR DUCTWORK FOR ALL RETURN DUCTWORK WITHIN 10' OF FURNACE RETURN AIR DUCT CONNECTION INTO UNIT.
3. RETURN AIR INSIDE STUD WALL CAVITY DOWN TO RETURN AIR GRILLE. PROVIDE SHEET METAL BACKPAN AND 1/2" ARMAFLEX INSULATION ALONG ENTIRE LENGTH OF BACKSIDE OF EACH RETURN CAVITY. FLUSH WITH BACK EDGE OF WALL CAVITY. FOR NOISE REDUCTION INTO ADJACENT ROOM. REFER TO DETAIL.
4. 3" COMBUSTION AIR INTAKE AND 3" FLUE EXHAUST VENT ROUTED UP FROM FURNACE THRU ROOF TO ROOF CONCENTRIC TERMINATION. FLASH AND SEAL AS REQUIRED.
5. 3" COMBUSTION AIR INTAKE AND 3" FLUE EXHAUST VENT ROUTED UP FROM WATER HEATER THRU ROOF TO ROOF CONCENTRIC TERMINATION. FLASH AND SEAL AS REQUIRED. REFER TO PLUMBING PLANS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. ROUTE REFRIGERANT LINES WITH INSULATION FROM CONDENSING UNIT OVER THRU EXTERIOR WALL, AND OVER TO ASSOCIATED FURNACE COOLING COIL. COVER ALL EXTERIOR REFRIGERANT PIPE INSULATION WITH UV RESISTANT PVC JACKET OR PAINT WITH UV RESISTANT PVC COATING.
7. ROUTE REFRIGERANT LINES WITH INSULATION FROM SPLIT SYSTEM HEAT PUMP OVER THRU EXTERIOR WALL INTO CEILING SPACE, AND OVER AND DOWN TO ASSOCIATED INDOOR UNIT. COVER ALL EXTERIOR REFRIGERANT PIPE INSULATION WITH UV RESISTANT PVC JACKET OR PAINT WITH UV RESISTANT PVC COATING.

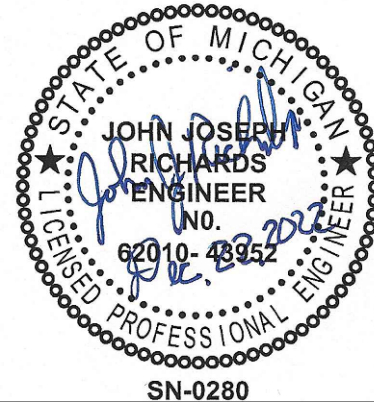
MECHANICAL LEGEND

F	FURNACE
CU	CONDENSING UNIT
DOAS	DEDICATED OUTSIDE AIR UNIT
S.A.	SUPPLY AIR
R.A.	RETURN AIR
O.A.	OUTDOOR AIR
E.A.	EXHAUST AIR
T	TEMPERATURE THERMOSTAT INFINITY
M	BALANCE DAMPER W/LOCKING QUADRANT
AC	MOTORIZED DAMPER
HPFC	HP TERMINAL UNIT
HP	HEAT PUMP FAN COIL
HP	AIR/AIR HP

DUCT STD. TAKEOFF SIZING CHART

DUCT SIZE	SUPPLY AIR CFM	RETURN AIR CFM	SUPPLY AIR VAV CFM
4"	20-40	20-35	20-120
6"	40-120	35-100	125-250
8"	125-240	105-200	260-480
10"	250-430	210-380	490-750
12"	440-700	390-600	760-1000
14"	710-1000	610-850	1010-1500

- NOTES:
1. FLOWS ARE SIZED USING 0.1"WC/100' FOR S.A.
  2. FLOWS ARE SIZED USING 0.07"WC/100' FOR R.A.
  3. TAKE OFFS TO HAVE PROPER RELIEF FOR PROPER FLOW. AS PER SMACNA STANDARDS.
  4. VAV TAKE OFFS SIZED AT NOMINAL 1300FPM.
  5. IF SIZING NOT GIVEN ON PLAN USE CHART.



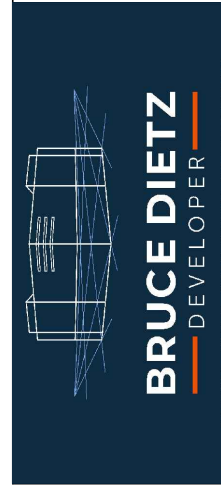
PROJECT# 2210-06

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**APOLLO**  
ENGINEERING



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FIRST FLOOR PLAN -  
MECHANICAL

ALCONA HEALTH CENTER  
1209 U.S. 23  
ALPENA, MICHIGAN 49707

PROJECT

ISSUED  
SET  
PERMIT

DATE  
12/22/22

ENGINEER

AE

DESIGNER

AE

JOB NUMBER

2210.06

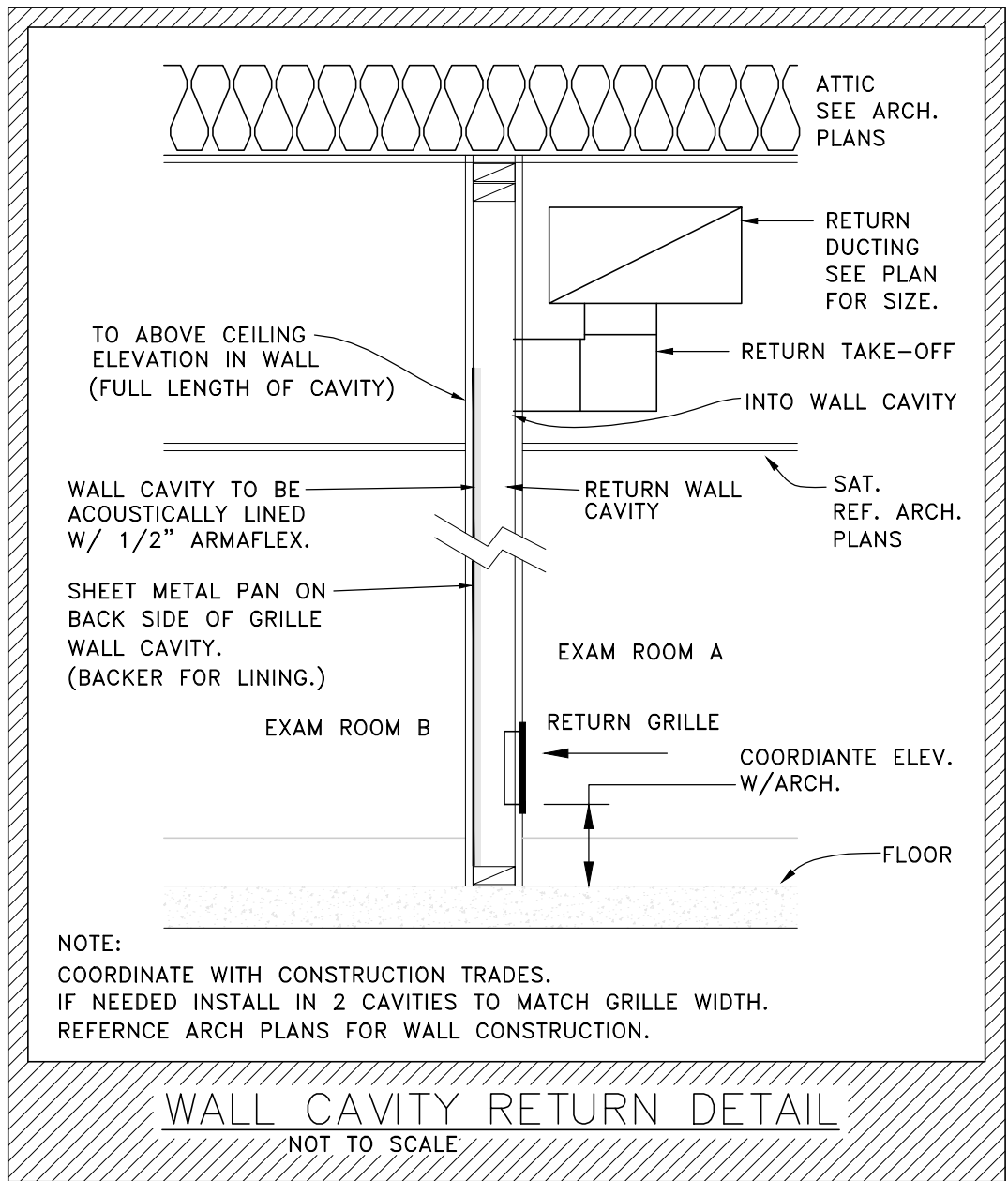
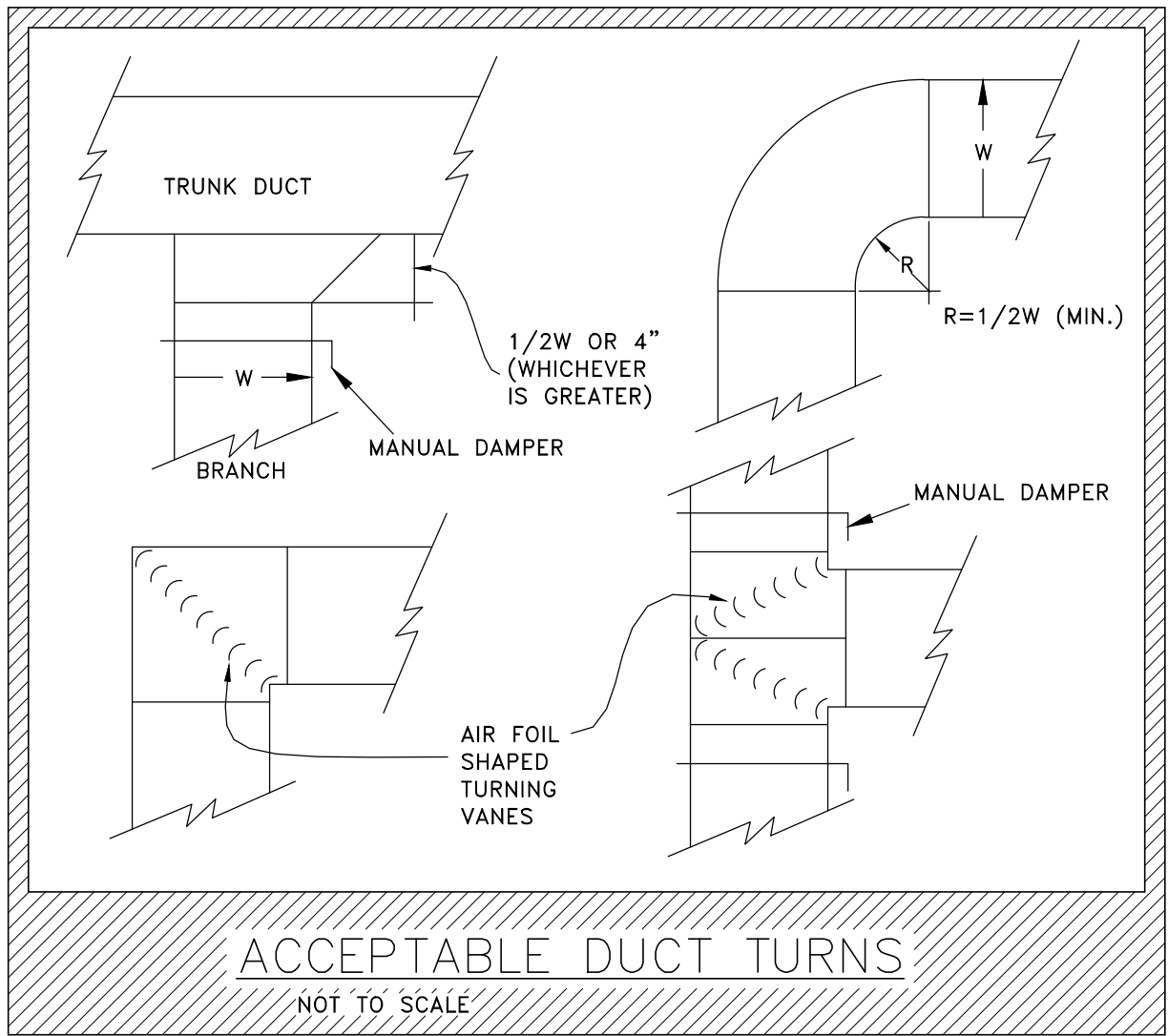
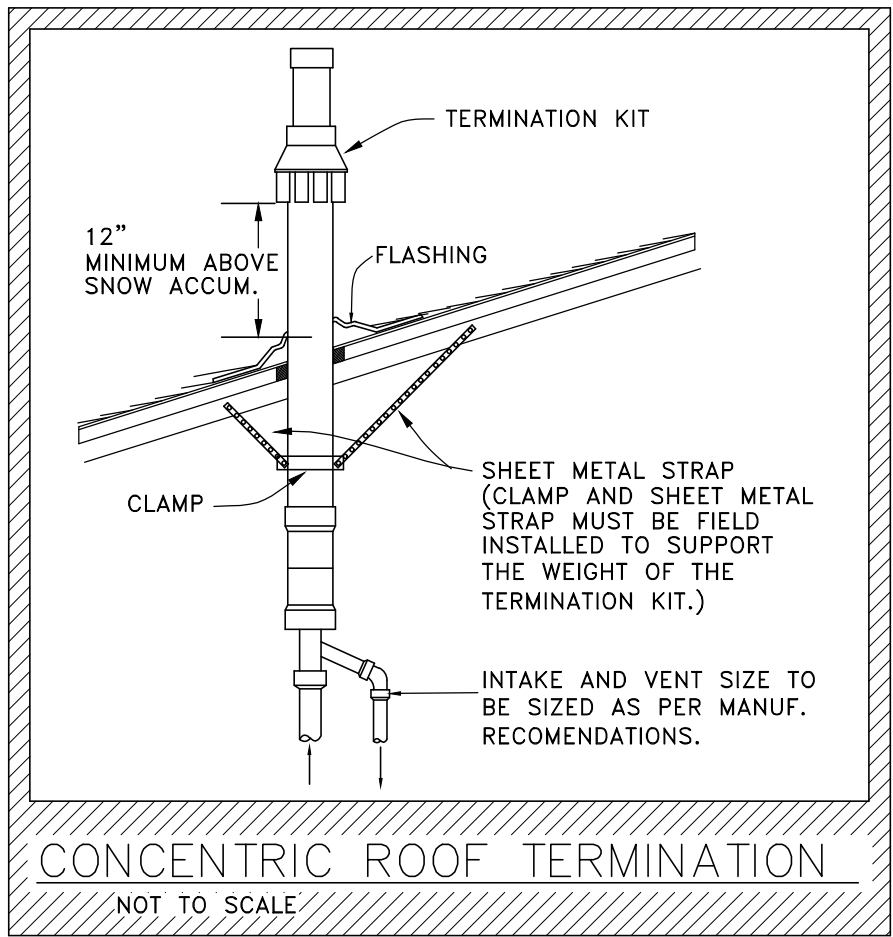
SHEET NO.

MI



FURNACE SCHEDULE

MARK	MANUF.	MODEL No.	TYPE	HTG.MBH INPUT	HTG.MBH OUTPUT	NOMINAL CLG.MBH	CFM	SPEEDS	O.A.CFM	ESP	VOLTAGE	H.P.	MIN. CIR. AMPACITY	MAX. FUSE SIZE	REMARKS
F-101	CARRIER	59MN7A080V21-20	UP FLOW	100.0	97.0	60.0	1995	VARIABLE	220	0.5"	120V/1Ø	1.0	19.1	20A	SEE NOTES
F-102	CARRIER	59MN7A080V21-20	UP FLOW	100.0	97.0	60.0	1995	VARIABLE	220	0.5"	120V/1Ø	1.0	19.1	20A	SEE NOTES
F-103	CARRIER	59MN7A080V21-20	UP FLOW	100.0	97.0	60.0	1995	VARIABLE	220	0.5"	120V/1Ø	1.0	19.1	20A	SEE NOTES
NOTES: 1. BASED ON CARRIER. 2. FURNACES SHALL RUN CONTINUOUSLY DURING BUILDING OCCUPIED TIMES. UNIT TO DELIVER NOT LESS THAN 15% CFM LESS THEN STATED VALUES. 3. VERIFY RA CONNECTIONS TO FURNACE IN AGREEMENT WITH MANUFACTURES RECOMMENDATION. 4. PROVIDE ALL FURNACES WITH VERTICAL CONCENTRIC VENT KIT, SIZE AND ROUTE VENTING ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. 5. PROVIDE ALL FURNACES WITH 7-DAY PROGRAMMABLE THERMOSTAT. ALL SYSTEM CONTROLS SHALL BE EQUAL TO CARRIER INFINITY. 6. PIPE CONDENSATE DRAIN TO NEAREST FLOOR DRAIN. PROVIDE ALL FURNACES WITH CONDENSATE PUMP EQUAL TO LITTLE GIANT #VCMX-20UL IF REQUIRED. 7. PROVIDE ALL FURNACES WITH FACTORY PROVIDED, FIELD INSTALLED 2" FILTER BOX WITH MIN. MERV-8 FILTERS. 8. UNITS TO HAVE GPS AIR CLEANER INSTALLED, REFER TO FURNACE DETAIL. 9. FURNACE SUPPLY MINIMUM AIRFLOW LEVEL SHALL BE 50% OF SCHEDULED CFM. FURNACE SHALL MAINTAIN MINIMUM MIXED AIR TEMPERATURE INTO FURNACE OF 60°F.															



CONDENSING UNIT SCHEDULE										
MARK	UNIT SERVED	MODEL No.	NOMINAL CLG. CAP	SEER	REFRIG.	ELECTRICAL			WEIGHT	REMARKS
						VOLTAGE	MCA	MOCPP		
CU-101	F-101	24VNA060A0030	5 TONS	20.0	R-410A	208V/1Ø	35.0	50A	324	SEE NOTES
CU-102	F-102	24VNA060A0030	5 TONS	20.0	R-410A	208V/1Ø	35.0	50A	324	SEE NOTES
CU-103	F-103	24VNA060A0030	5 TONS	20.0	R-410A	208V/1Ø	35.0	50A	324	SEE NOTES
NOTES: 1. BASED ON CARRIER. AAO IS EQUAL. 2. UNITS SHALL HAVE VARIABLE-SPEED COOLING. 3. UNITS SHALL BE INSTALLED ON 4" CONCRETE PAD, LEVEL IN ALL DIRECTIONS, BY ARCHITECTURAL TRADE. 4. PROVIDE FURNACES WITH MATCHED COOLING COIL. ROUTE REFRIGERANT LINES FROM OUTDOOR UNIT TO ASSOCIATED FURNACE, LINES SIZED AND CONFIGURED PER MANUFACTURER'S RECOMMENDATIONS FOR PROPER OIL RETURN. 5. ALL SYSTEM CONTROLS SHALL BE EQUAL TO CARRIER INFINITY.										

ELECTRIC WALL HEATER SCHEDULE						
MARK	MODEL No.	KW	MBH	VOLTAGE	AMPS	REMARKS
EWH-1	FRA-4024	3.0	10.2	208V/1ø	14.5	SEE NOTES
EWH-2	FRA-1512	1.5	5.1	120V/1ø	12.5	SEE NOTES
<u>NOTES:</u> 1. BASED ON BERKO. OTHERS MAY BE BID AS VOLUNTARY ALT. 2. UNIT SHALL BE PROVIDED WITH INTEGRAL THERMOSTAT, INTEGRAL DISCONNECT, TAMPER-PROOF FRONT COVER, AND SEMI-RECESSED MOUNTING FRAME.						

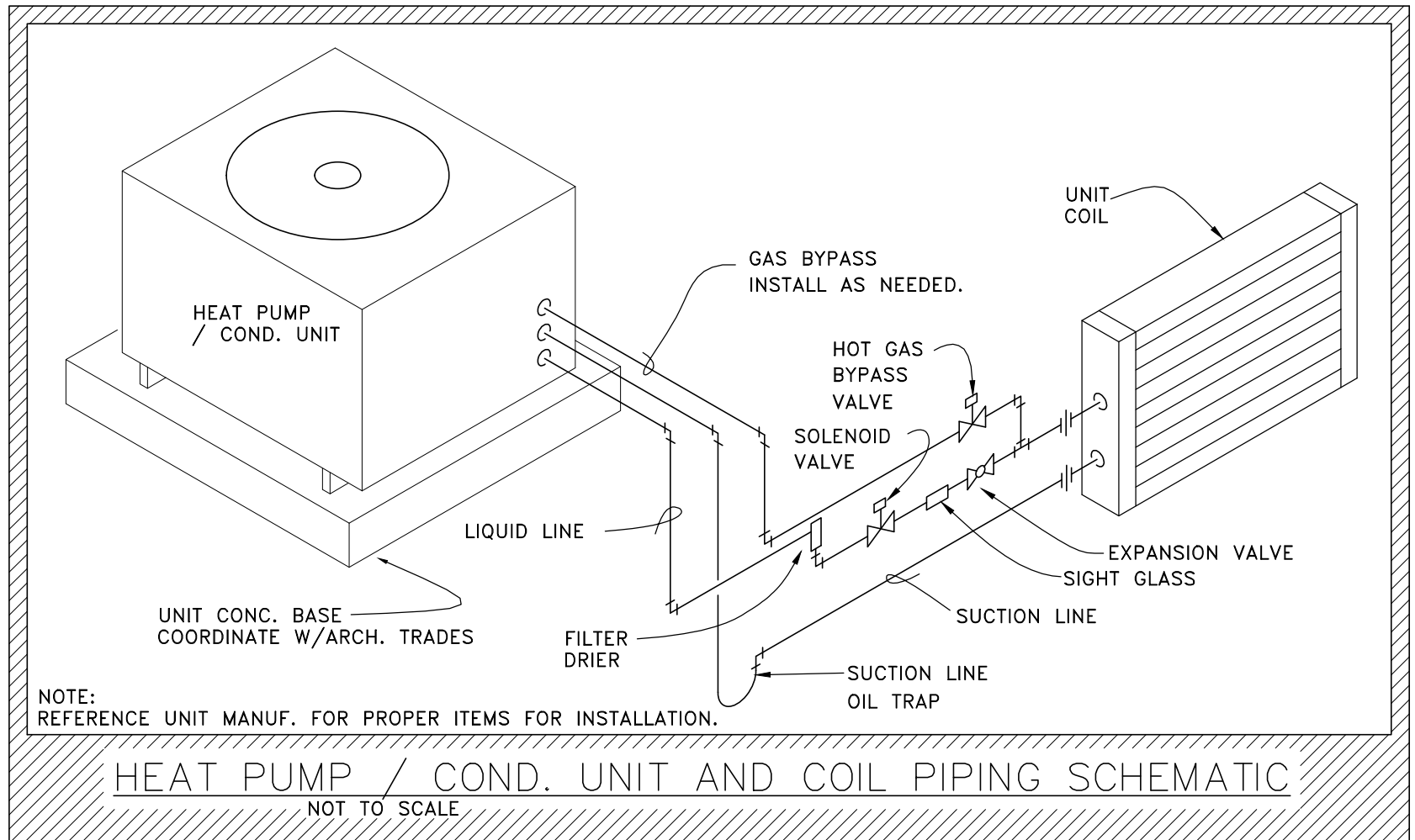
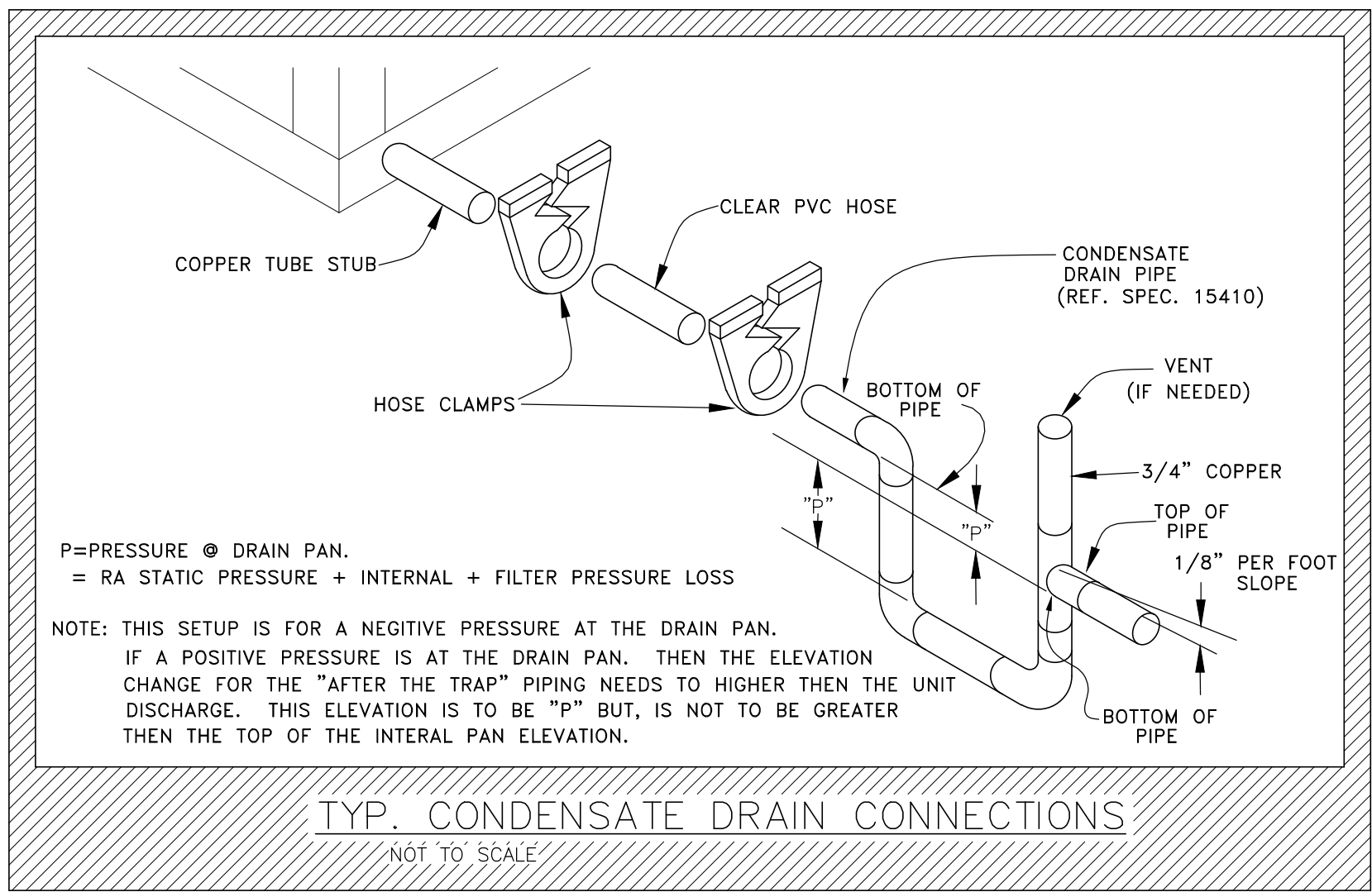
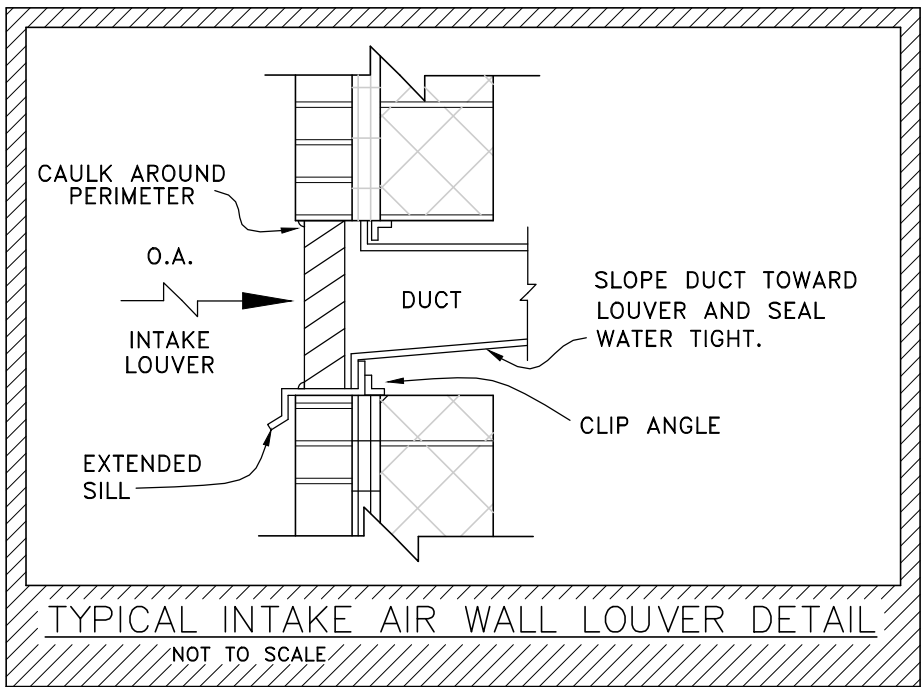
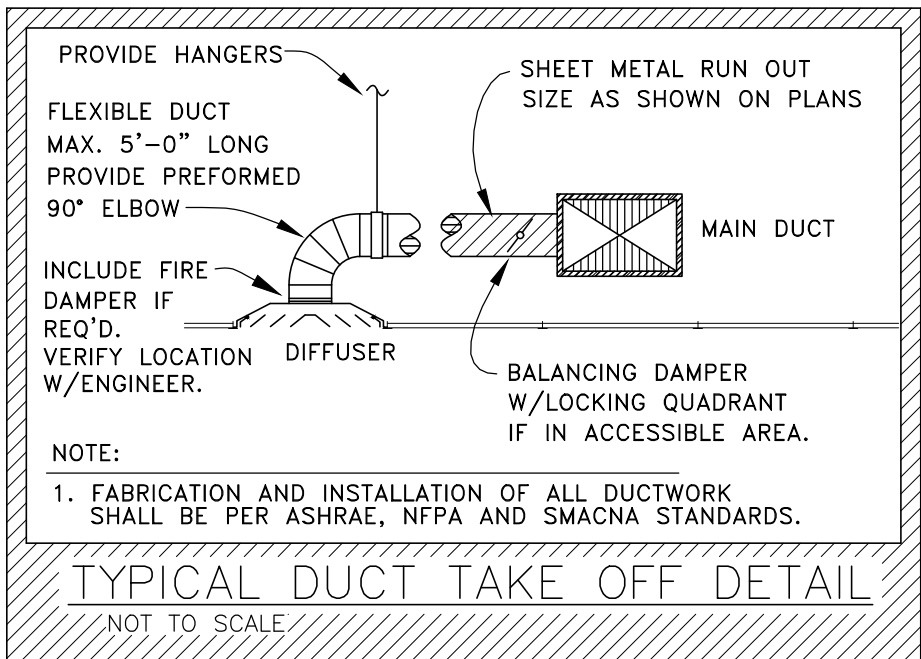
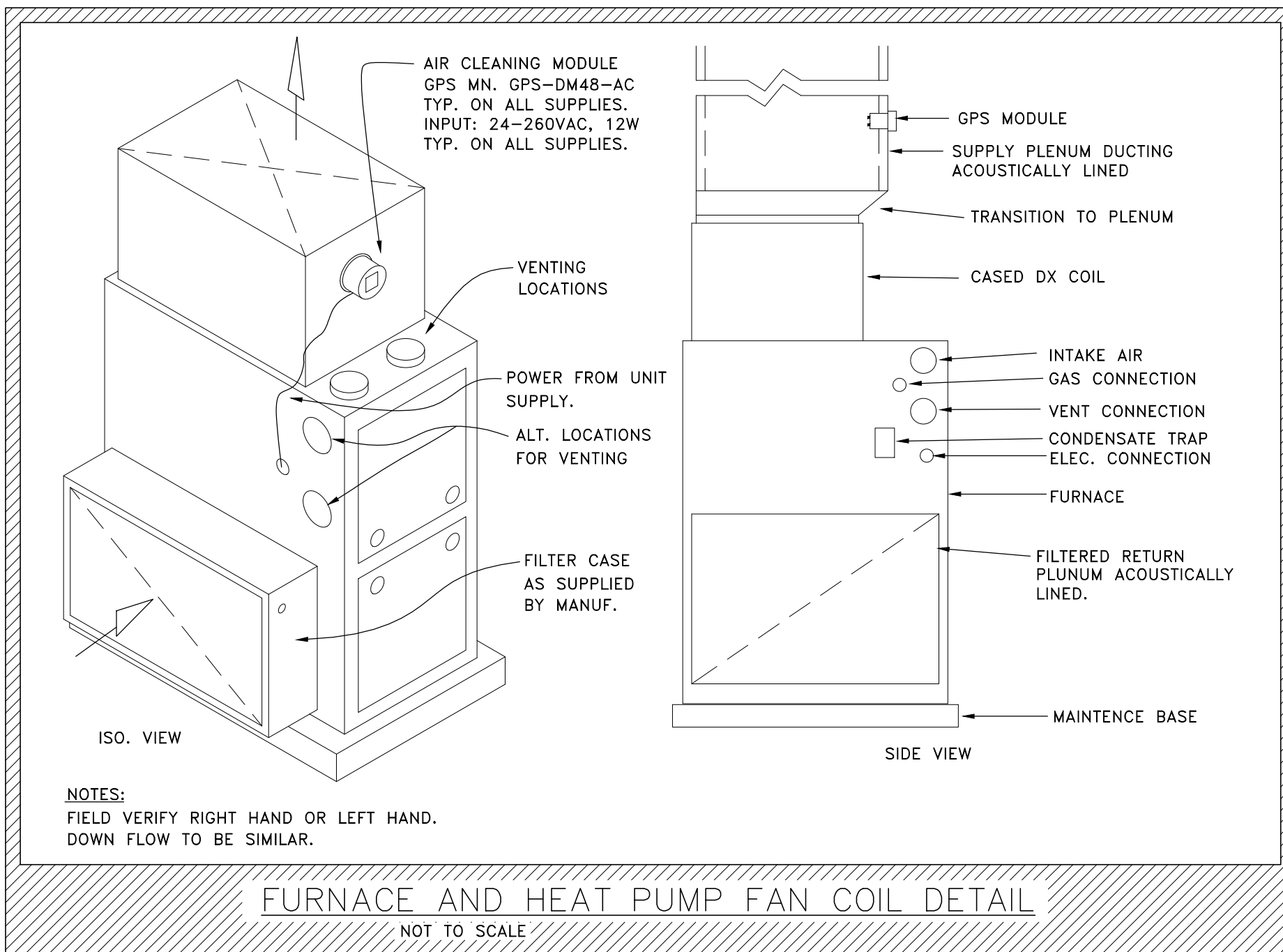
DIFFUSER / GRILLE SCHEDULE						
MARK	MODEL No.	CFM	SIZE	BALANCING DAMPER	COLOR	REMARKS
SD-1	TDC	40-100	9"x9", 6"Ø NECK	NO	WHITE	BORDER TYPE 1, SEE NOTE #4
SD-2	FLI-10	235-260	48"LG, 1"SLT, 2-SLOT	YES	WHITE	BORDER TYPE 66, SEE NOTE #3
SD-3	FLI-10	120-205	48"LG, 1"SLT, 1-SLOT	YES	WHITE	BORDER TYPE 66, SEE NOTE #3
SR-1	300FL	150	8"x6"	YES	WHITE	BORDER TYPE 1
RG-1	355FL	120-325	14"x6"	NO	WHITE	BORDER TYPE 1
RG-2	355FL	120-325	30"x6"	NO	WHITE	BORDER TYPE 1
RG-3	8F	175	8"x8"	NO	WHITE	BORDER TYPE 1
RG-4	8F	500-745	14"x14"	NO	WHITE	BORDER TYPE 1
RG-5	8F	1245	18"x18"	NO	WHITE	BORDER TYPE 1
EG-1	50F	40-100	8"x8"	YES	WHITE	BORDER TYPE 1
EG-2	355FL	100	6"x6"	NO	WHITE	BORDER TYPE 1
NOTES: 1. BASED ON TITUS. (DISCOVAIR, PRICE OR KRUGER MAY BE BID EQUALS.) 2. REVIEW COLOR W/ARCHITECT BEFORE ORDERING. 3. FLOWBAR DIFFUSORS TO BE SUPPLIED WITH INSULATED PLENUM, END CAPS AND HANGER CLIPS. 4. PROVIDE PLASTER FRAME WITH DIFFUSER IF MOUNTED IN DRYWALL CEILING. 5. ALL SUPPLY AIR DIFFUSERS SHALL HAVE A 4-WAY AIR PATTERN UNLESS OTHERWISE INDICATED (SEE PLANS). 6. PROVIDE ALL DUCT COLLARS, TRANSITIONS, CONNECTIONS AND SUPPORTS. 7. ALL VISIBLE SURFACES BEHIND DIFFUSER/GRILLE (INCLUDING DAMPERS) SHALL BE PAINTED FLAT BLACK. 8. CONTRACTOR SHALL VERIFY DIFFUSER OR GRILLE FRAME TYPE WITH MOUNTING SURFACE. 9. BRANCH DUCTS SERVING DIFFUSER/GRILLE SHALL BE SAME SIZE AS DIFFUSER/GRILLE NECK SIZE UNLESS OTHERWISE NOTED. 9. PROVIDE EXTRA T'BAR FOR INSTALLATION OF 24x24 LAY-IN DIFFUSERS/GRILLES INTO 48x24 CEILING GRID AS REQUIRED.						

ENERGY RECOVERY VENTILATOR SCHEDULE									
MARK	MANUF.	MODEL No.	OUTDOOR AIR		EXHAUST AIR		MOTOR HP (EA.)	VOLTAGE	REMARKS
			CFM	E.S.P.	CFM	E.S.P.			
ERV-1	RENEWAIRE	HE1.5JINH	1100	0.5"	1100	0.9"	1.0	208V/1Ø	SEE NOTES
NOTES: 1. BASED ON RENEWAIRE. 2. UNIT SHALL INCLUDE FACTORY ECM MOTORS, NON-FUSED DISCONNECT SWITCH, FACTORY MER 8 - 2" PLEATED FILTERS. 3. UNIT SHALL RUN CONTINUOUSLY DURING BUILDING OCCUPIED TIMES AS DETERMINED BY TIME CLOCK EQUAL TO RENEWAIRE TC7D-E. 4. UNIT SHALL BE PROVIDED WITH FACTORY BACKDRAFT DAMPER IN BOTH AIRSTREAMS. 5. UNIT SHALL BE INSTALLED FROM STRUCTURE ABOVE WITH ISOLATORS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. 6. PROVIDE AND INSTALL UNIT WITH DUCT AND ACCESS DOOR CONFIGURATION AS SHOWN ON PLANS.									

WALL LOUVER SCHEDULE								
MARK	MODEL No.	UNIT SERVED	TYPE	CFM	SIZE W x H	FREE AREA	PD	REMARKS
L-1	ELF6375DX	ERV-1	INTAKE	1100	36" X 18"	1.97 SQFT	.05"	SEE NOTES
L-2	ELF6375DX	ERV-1	EXHAUST	1100	36" X 18"	1.97 SQFT	.04"	SEE NOTES
NOTES: 1. BASED ON RUSKIN. 2. PROVIDE FLANGE, BIRD SCREEN, AND BAKED ENAMEL FINISH. 3. LOUVER SHALL HAVE A FACTORY APPLIED FINISH IN COLOR AS SELECTED BY ARCHITECT.								

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE										
MARK	SPACE SERVED	MODEL No.	NOMINAL CLG. CAP.	NOMINAL HTG. CAP.	ELECTRICAL			SEER	WEIGHT	REMARKS
					VOLTAGE	MCA	MOCP			
HP-1	IT ROOM	TRUA0121KA70(N/B)A	12.0 MBH	18.0 MBH	208V/1Ø	11.0	15	21.0	93	SEE NOTES
NOTES:										
1. BASED ON TRANE/MITSUBISHI. OTHERS MAY BE BID AS VOLUNTARY ALT.										
2. UNIT SHALL BE PROVIDED WITH WIND BAFFLES FOR LOW AMBIENT OPERATION.										
3. UNIT SHALL BE INSTALLED ON 4" CONCRETE PAD, LEVEL IN ALL DIRECTIONS, BY ARCHITECTURAL TRADE.										
4. REFRIGERANT LINES SIZED AND CONFIGURED PER MANUFACTURER'S RECOMMENDATIONS FOR PROPER OIL RETURN. REFRIGERANT PIPING SHALL NOT EXCEED RECOMMENDED MAXIMUM LENGTH.										

SPLIT SYSTEM INDOOR UNIT SCHEDULE									
MARK	UNIT SERVED	MODEL No.	NOMINAL CLG. CAP.	NOMINAL HTG. CAP.	TYPE	ELECTRICAL		WEIGHT	REMARKS
						VOLTAGE	MCA		
AC-1	HP-1	TPKA0A0121LA00A	12.0 MBH	18.0 MBH	WALL	DC24V	1.0	28	SEE NOTES
NOTES:									
1. BASED ON TRANE/MITSUBISHI. OTHERS MAY BE BID AS VOLUNTARY ALT.									
2. INDOOR UNIT POWER TO BE FED FROM ASSOCIATED OUTDOOR UNIT.									
3. PROVIDE LOCKING BASE FOR WALL MOUNTED THERMOSTAT.									
4. WALL MOUNTED INDOOR UNIT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATION.									
5. PIPE CONDENSATE DRAIN TO NEAREST FLOOR DRAIN. PROVIDE CONDENSATE PUMP FOR EACH INDOOR UNIT EQUAL TO LITTLE GIANT									
#VCMX-20UL. CONDENSATE PUMP SHALL BE 240V/1Ø SUCH THAT POWER CAN BE PROVIDED THRU INDOOR A/C UNIT.									



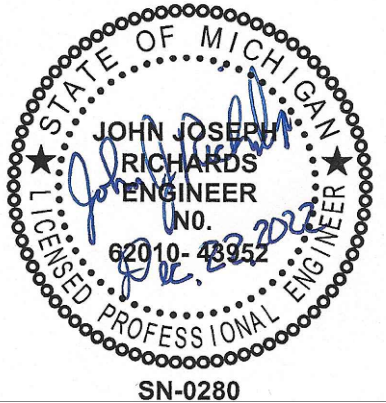
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100 RIPLEY  
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MECHANICAL SCHEDULES AND  
DETAILS

ALCONA HEALTH CENTER  
1209 U.S. 23  
ALPENA, MICHIGAN 49707



PROJECT# 2210-06  
13310 S. West Bayshore Dr.  
Suite C  
Traverse City, MI 49684  
(231) 932-0800 office

APOLLO  
ENGINEERING

ENGINEER  
DESIGNER  
JOB NUMBER  
SHEET NO.

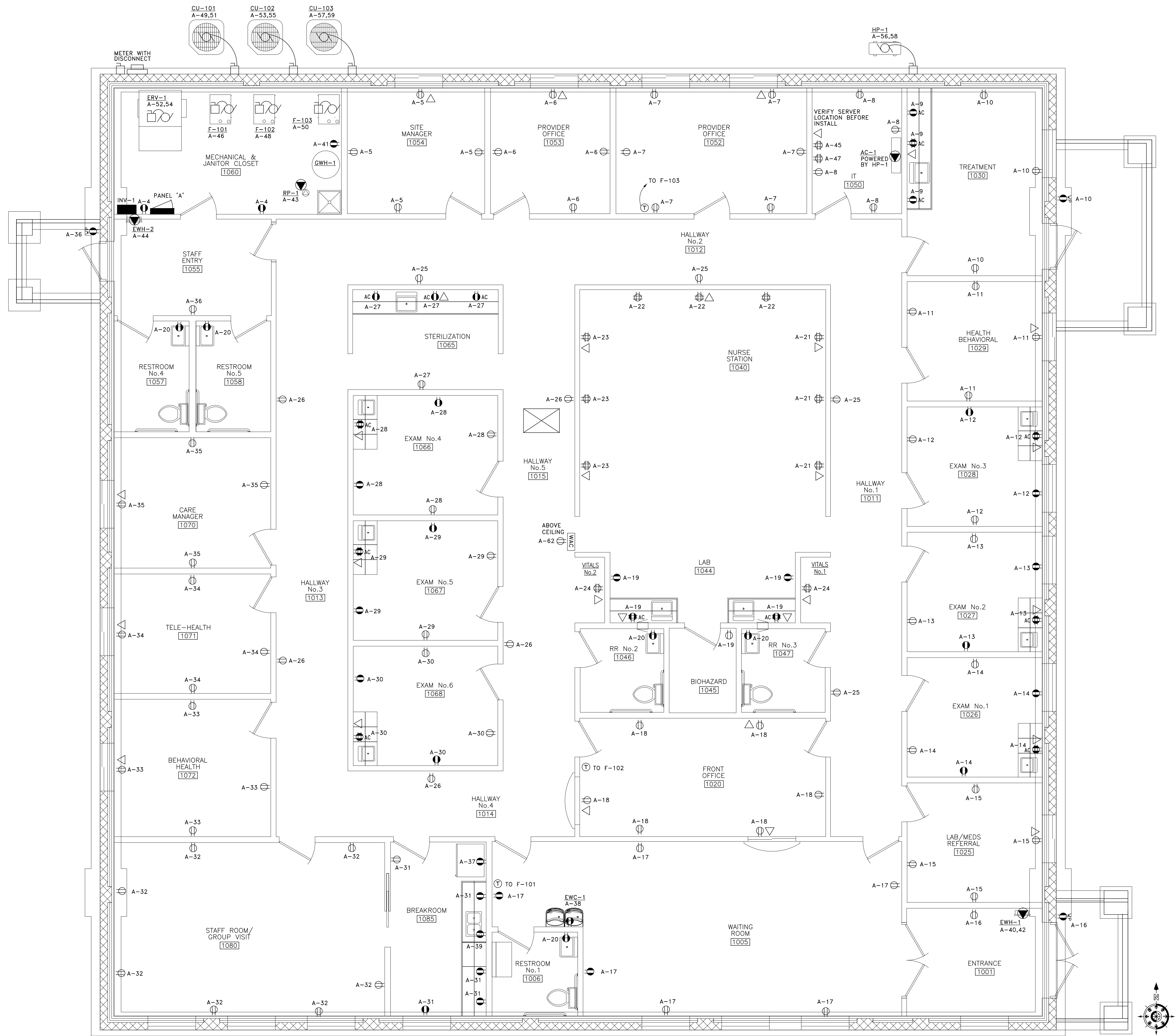
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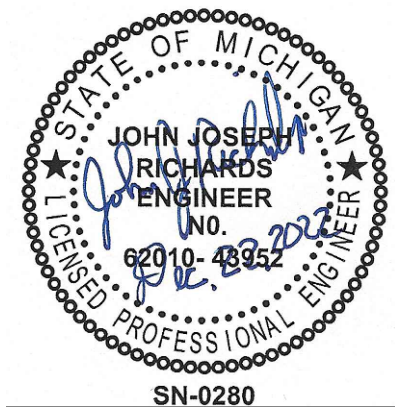






FIRST FLOOR PLAN - ELECTRICAL POWER

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



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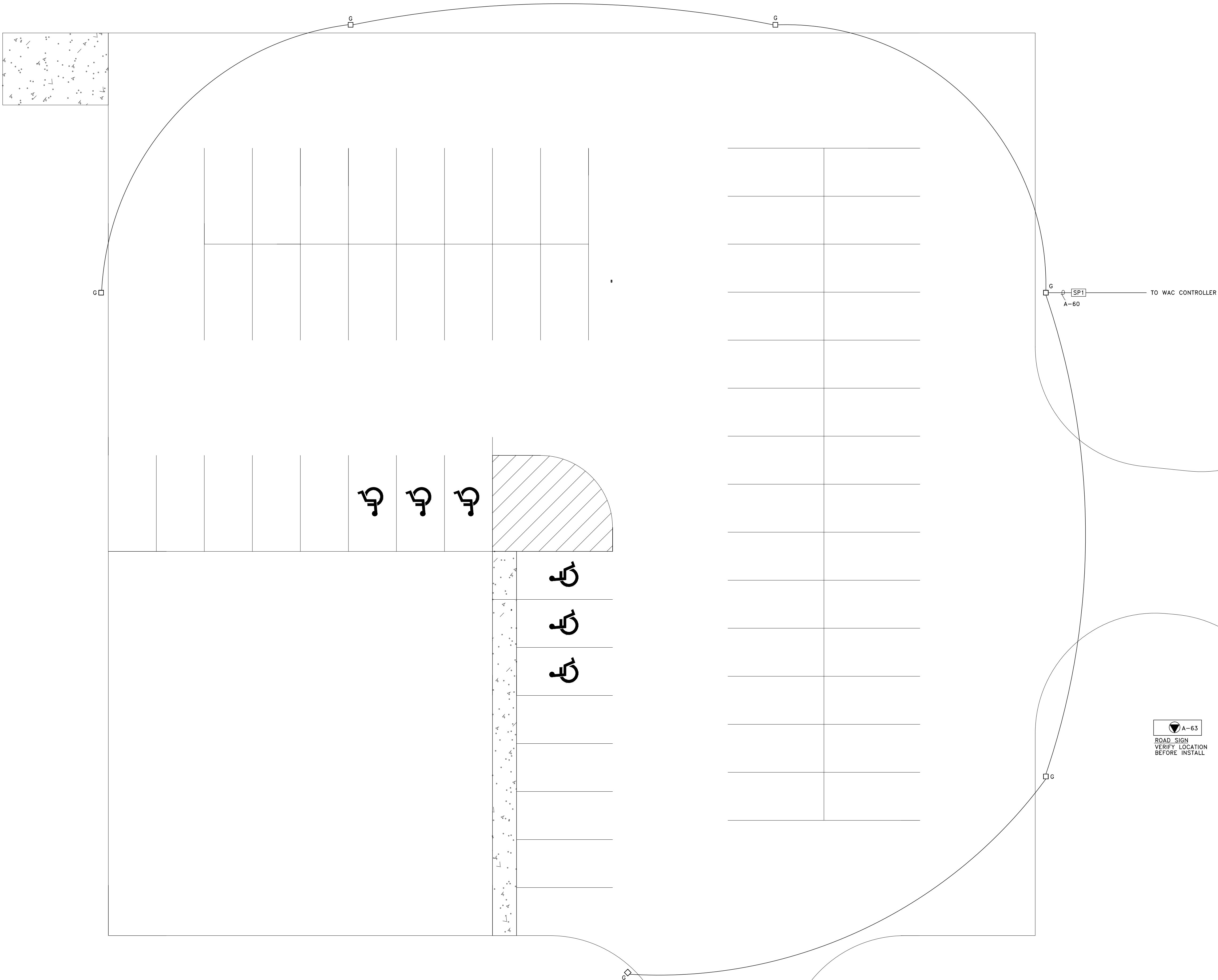
FLOOR PLAN - ELECTRICAL  
POWER

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ALPENA, MI 49707

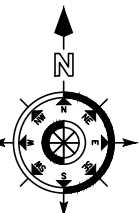
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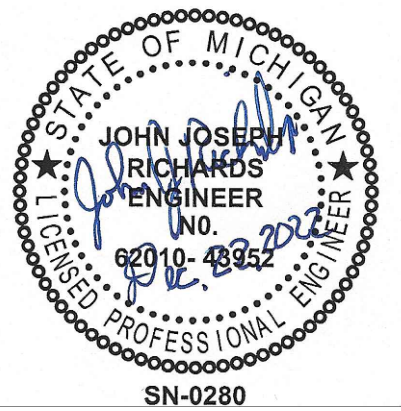


SITE PLAN - ELECTRICAL LIGHTING

SCALE: 3/32"=1'-0"



US 23



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JOB NUMBER  
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ENGINEER

PERMIT

SET

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SITE PLAN - ELECTRICAL

LIGHTING

BRUCE DIETZ

100 RIPLEY

ALPENA, MI 49707

DESIGN-BUILD-COMMERCIAL CONSTRUCTION

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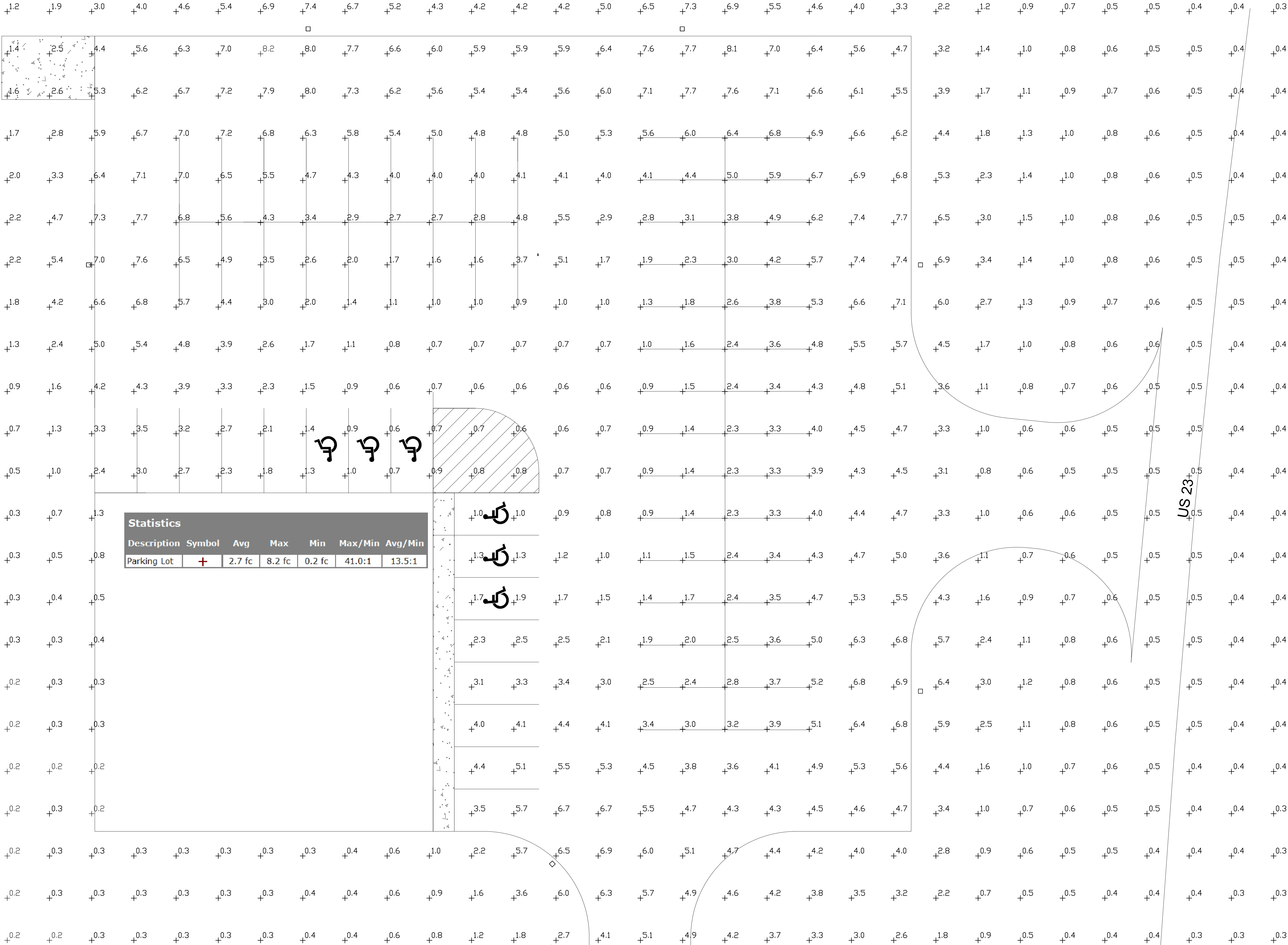
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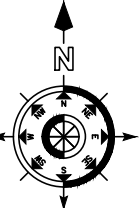
DESIGN-BUILD-COMMERCIAL CONSTRUCTION



Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking Lot	+	2.7 fc	8.2 fc	0.2 fc	41.0:1	13.5:1

SITE PLAN - PHOTOMETRICS

SCALE: 3/32"=1'-0"

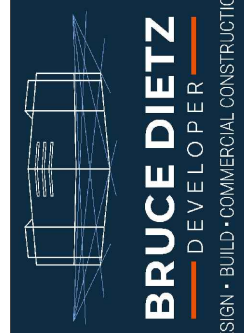


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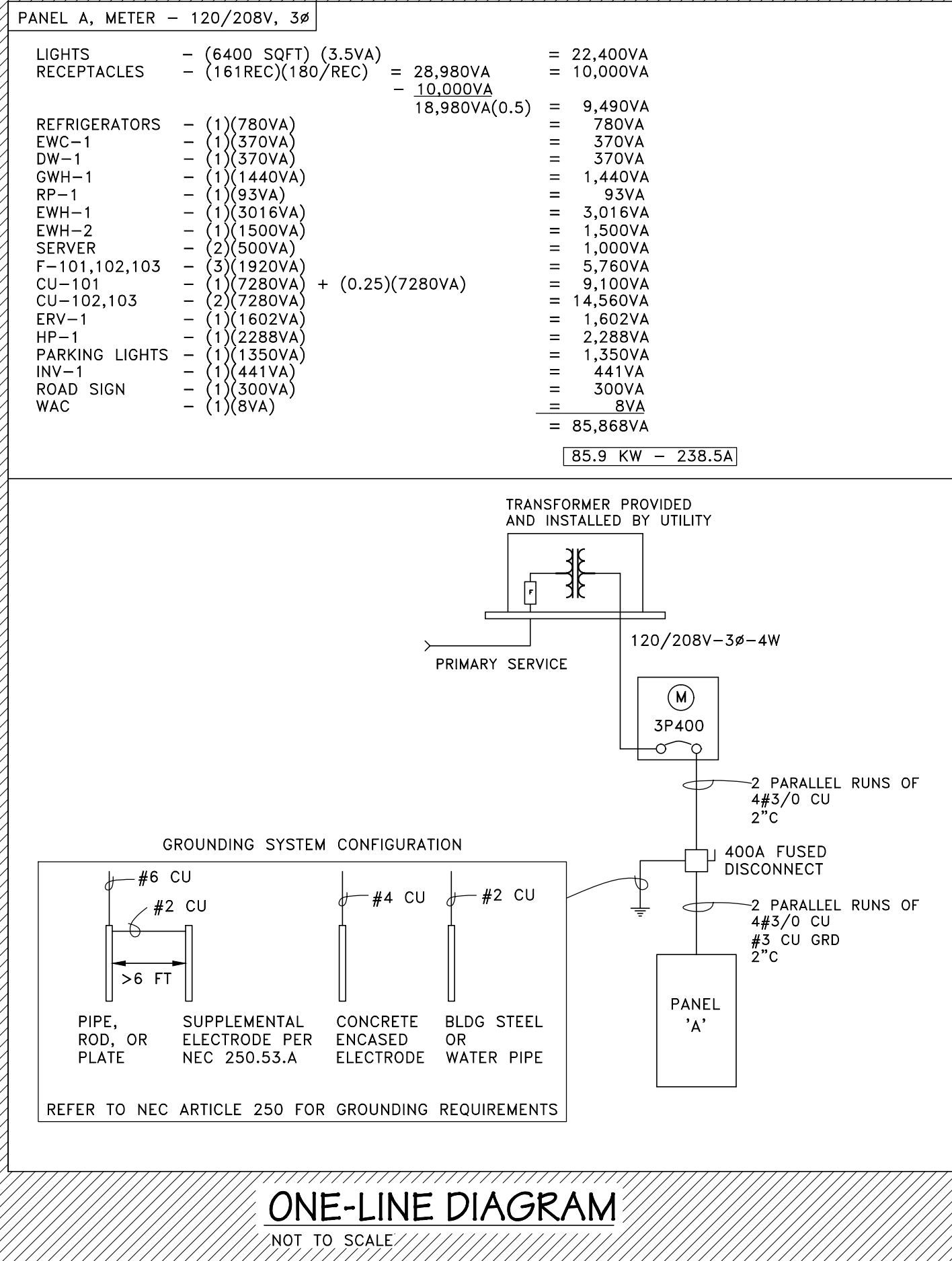
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PERMIT	1/22/22
ENGINEER	AE
DESIGNER	AE
JOB NUMBER	2210.06
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PANEL A (MECH. ROOM)									
400 AMPS M.L.O. 120/208V-3Ø-4W									
QIR NO.	AMP / POLES	DESCRIPTION	LOAD	LOAD	DESCRIPTION	AMP / POLES	QIR NO.	AMP / POLES	DESCRIPTION
1	20/1	LIGHTS (STAFF ENTRY, HALLWAYS, EXT)	964	1244	LIGHTS (NORTH LIGHTS)	20/1	2	20/1	LIGHTS (SOUTH LIGHTS)
3	20/1	RECEPTACLES (SITE MGR 1054)	720	720	RECEPTACLES (PROVIDER OFFICE 1053)	20/1	6	20/1	RECEPTACLES (PROVIDER OFFICE 1052)
7	20/1	RECEPTACLES (TREATMENT 1030)	720	720	RECEPTACLES (TREATMENT 1030, EXT)	20/1	10	20/1	RECEPTACLES (TREATMENT 1029)
9	20/1	RECEPTACLES (BEHAVIOR HEALTH 1029)	720	720	RECEPTACLES (EXAM RM 3)	20/1	12	20/1	RECEPTACLES (EXAM RM 2)
11	20/1	RECEPTACLES (EXAM RM 2)	1080	1080	RECEPTACLES (EXAM RM 1)	20/1	14	20/1	RECEPTACLES (REFERRAL 1025)
13	20/1	RECEPTACLES (REFERRAL 1025)	720	360	RECEPTACLES (ENTRANCE 1001, EXT)	20/1	16	20/1	RECEPTACLES (WAITING RM 1005)
15	20/1	RECEPTACLES (WAITING RM 1005)	1080	1080	RECEPTACLES (FRONT OFFICE 1020)	20/1	18	20/1	RECEPTACLES (LAB 1044)
17	20/1	RECEPTACLES (LAB 1044)	1260	900	RECEPTACLES (RESTROOMS)	20/1	20	20/1	RECEPTACLES (NURSE STATION 1040)
19	20/1	RECEPTACLES (NURSE STATION 1040)	1080	1080	RECEPTACLES (NURSE STATION 1040)	20/1	22	20/1	RECEPTACLES (NURSE STATION 1040)
21	20/1	RECEPTACLES (HALLS 1, 2)	720	900	RECEPTACLES (HALLS 3, 4, 5)	20/1	24	20/1	RECEPTACLES (STERILIZATION 1065)
23	20/1	RECEPTACLES (STERILIZATION 1065)	720	1080	RECEPTACLES (EXAM RM 4)	20/1	28	20/1	RECEPTACLES (EXAM RM 5)
25	20/1	RECEPTACLES (EXAM RM 5)	1080	1080	RECEPTACLES (EXAM RM 6)	20/1	30	20/1	RECEPTACLES (BREAK RM 1085)
31	20/1	RECEPTACLES (BREAK RM 1085)	900	1260	RECEPTACLES (STAFF/GROUP 1080)	20/1	32	20/1	RECEPTACLES (BEHAVIORAL HEALTH 1072)
33	20/1	RECEPTACLES (BEHAVIORAL HEALTH 1072)	720	720	RECEPTACLES (TELE-HEALTH 1071)	20/1	34	20/1	RECEPTACLES (CARE MGR 1070)
35	20/1	RECEPTACLES (CARE MGR 1070)	720	360	RECEPTACLES (STAFF ENTRY 1055, EXT)	20/1	36	20/1	REFRIGERATOR (BREAK RM 1085)
37	20/1	REFRIGERATOR (BREAK RM 1085)	780	370	EW-1 (WAITING RM 1005)	20/1	38	20/1	EW-1 (WAITING RM 1005)
39	20/1	EW-1 (WAITING RM 1005)	370	1508	EW-1 (ENTRANCE 1001)	20/2	40	20/2	EW-1 (ENTRANCE 1001)
41	15/1	GW-1 (MECH RM 1060)	1440	1508	EW-2 (WAITING RM 1005)	20/1	44	20/1	EW-2 (WAITING RM 1005)
43	20/1	RP-1 (MECH RM 1060)	93	1500	F-101 (MECH RM 1060)	20/1	46	20/1	F-101 (MECH RM 1060)
45	20/1	SERVER (IT RM 1050)	500	1920	F-102 (MECH RM 1060)	20/1	48	20/1	F-102 (MECH RM 1060)
47	20/1	SERVER (IT RM 1050)	500	1920	F-103 (MECH RM 1060)	20/1	50	20/1	F-103 (MECH RM 1060)
49	50/2	CU-101 (EXTERIOR)	3640	1920	ERV-1 (MECH RM 1060)	15/2	52	15/2	ERV-1 (MECH RM 1060)
51	50/2	CU-102 (EXTERIOR)	3640	801	HP-1 (EXTERIOR)	15/2	54	15/2	HP-1 (EXTERIOR)
53	50/2	CU-103 (EXTERIOR)	3640	1144	PARKING LIGHTS (EXTERIOR)	20/1	60	20/1	PARKING LIGHTS (EXTERIOR)
55	50/2	CU-103 (EXTERIOR)	3640	1144	PARKING LIGHTS (EXTERIOR)	20/1	60	20/1	PARKING LIGHTS (EXTERIOR)
57	20/1	INV-1 (MECH RM 1060)	441	8	WAC (STAFF ENTRY 1055, EXT)	20/1	62	20/1	WAC (STAFF ENTRY 1055, EXT)
59	20/1	ROAD SIGN (EXTERIOR)	300	---	SPARE	20/1	64	20/1	SPARE
61	20/1	SPARE	---	---	SPARE	20/1	66	20/1	SPARE
63	20/1	SPARE	---	---	SPARE	20/1	68	20/1	SPARE
65	20/1	SPARE	---	---	SPARE	20/1	70	20/1	SPARE
67	20/1	SPARE	---	---	SPARE	20/1	72	20/1	SPARE
69	20/1	SPARE	---	---	SPARE	20/1	72	20/1	SPARE
71	---	SPACE	---	---	SPACE	---	72	---	SPACE



SYMBOL	DESCRIPTION	NOTES
	SINGLE POLE STYLE SWITCH	MOUNT @ 44" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
	2'x2' FIXTURE, TYPE X	SEE LIGHTING FIXTURE SCHEDULE FOR TYPES
	EMERGENCY LIGHTING FIXTURE	SEE LIGHTING FIXTURE SCHEDULE FOR TYPES
	EXIT SIGN, TYPE X	SEE LIGHTING FIXTURE SCHEDULE FOR TYPES
	GREENGATE ONW-P-1001-MV-X	WALLBOX MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR
	DUPLEX OUTLET - 20 AMP	MOUNT @ 24" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
	DUPLEX OUTLET - GROUND FAULT	MOUNT @ 24" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
	DUPLEX OUTLET - WEATHER PROOF COVER	MOUNT @ 24" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
	QUADPLEX OUTLET - 20 AMP	MOUNT @ 24" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED
	SPECIAL PURPOSE OUTLET, AS NOTED	REFER TO SHOP DRAWINGS FOR CONNECTION REQUIREMENTS
	MOTOR, AS SPECIFIED	REFERENCE SPECIFICATIONS FOR REQUIREMENTS
	FUSED DISCONNECT	REFER TO GENERAL ELECTRICAL NOTES AND ONE-LINE DIAGRAM. (VFD IS BEING SUPPLIED WITH UNIT FOR ROOTOPS OR BY CONT. CONTRACTOR)
	LIGHTING/BRANCH CIRCUIT PANELS	REFER TO GENERAL ELECTRICAL NOTES AND ONE-LINE DIAGRAM.
	DATA OUTLETS	MOUNT @ 24" A.F.F. TO BOTTOM OF BOX, UNLESS OTHERWISE NOTED. EC TO PROVIDE SINGLE GANG BOX WITH 1" C STUBBED ABOVE CEILING SPACE. COORDINATE LOCATION, QUANTITY, AND HEIGHT W/ OWNER/TECH. CONSULTANT
	MECHANICAL THERMOSTAT	PROVIDE CONDUIT AND BACKBOX

MARK	MODEL No.	KW	MBH	VOLTAGE	AMPS	REMARKS
EW-1	FRA-4024	3.0	10.2	208V/1Ø	14.5	SEE NOTES
EW-2	FRA-1512	1.5	5.1	120V/1Ø	12.5	SEE NOTES

NOTES:

- BASED ON BERKO. OTHERS MAY BE BID AS VOLUNTARY ALT.
- UNIT SHALL BE PROVIDED WITH INTEGRAL THERMOSTAT, INTEGRAL DISCONNECT, TAMPER-PROOF FRONT COVER, AND SEMI-RECESSED MOUNTING FRAME.

WIRE SIZE REQUIREMENTS												
NOTE: BASED ON A MAXIMUM OF 6-VOLT DROP (5%) ON 120V CIRCUITS. WIRES FOR RUNS OVER 100'-0" SHALL BE DETERMINED ON THIS A MAXIMUM OF A 5% DROP ALLOWED.												
BRANCH CIRCUIT AMPS	LENGTH OF RUN - FROM PANEL TO FIRST CONNECTION - FEET											
	50'	60'	70'	80'	90'	100'	110'	120'	130'			
15	#12	#12	#12	#12	#12	#12	#10	#10	#10			
20	#12	#12	#12	#10	#10	#10	#10	#10	#8			
30	#10	#10	#10	#10	#8	#8	#8	#8	#6			

## ELECTRICAL NOTES

- PRIOR TO SUBMITTING A PROPOSAL, BIDDER SHALL HAVE VISITED THE CONSTRUCTION SITE. HE SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS BEHALF.
- ELECTRICAL WORK SHALL COMPLY WITH THE LATEST ENFORCEABLE EDITION OF THE N.E.C., LOCAL AND STATE CODES, ORDINANCES, REGULATIONS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), AND ADA GUIDELINES WITH THE LOCAL CODE AUTHORITIES HAVING JURISDICTION.
- ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, INCLUDING COSTS ASSESSED BY THE ELECTRIC UTILITY COMPANIES, AND ARRANGE FOR ALL INSPECTIONS FOR HIS WORK. AT THE COMPLETION OF ELECTRICAL WORK, THE ELECTRICAL CONTRACTOR SHALL FURNISH THE OWNER WITH ALL CERTIFICATES OF FINAL INSPECTION AND APPROVALS.
- ELECTRICAL MATERIALS SHALL BE NEW, AND BEAR THE "UL" LABEL.
- BRANCH CIRCUIT WIRE FOR LIGHTING, RECEPTACLE AND SMALL POWER SHALL BE COPPER, RATED 75 DEGREES C, MINIMUM SIZE #12 AWG, AND BE TYPE "THHN", AND BE INSTALLED IN EMT, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE. FEEDERS AND SECONDARY SERVICE CONDUCTORS SHALL BE STRANDED COPPER WITH 600 VOLT INSULATION, RATED 90 DEGREES C, TYPE "THHN", AND BE INSTALLED IN EMT OR PVC CONDUIT, MINIMUM SIZE 1/2" UNLESS OTHERWISE NOTED OR REQUIRED BY CODE. ALL WIRE AND CABLE SHALL BE NEW AND SHALL BE DELIVERED TO PROJECT IN UNBROKEN AND UNDAMAGED CARTONS AND REELS.
- FUSES SHALL BE "UL" LISTED, DUAL AS MANUFACTURED BY BUSMAN CO., OR APPROVED EQUAL (200,000 ERIC).
- PLATES FOR SWITCHES AND RECEPTACLES SHALL BE PLASTIC. COLOR TO BE WHITE.
- PANELS ARE TO BE RATED 120/208V, 3 PHASE, 4W, WITH PLUG TYPE BRANCH CIRCUIT BREAKERS RATED A MINIMUM 10,000 A.I.C. EXT'G PANELS TO HAVE NEW TYPE WRITTEN PANEL SCHEDULE AND PLASTIC ENGRAVED NAME PLATES.
- ELECTRICAL CONTRACTOR SHALL VERIFY EXACT ELECTRIC UTILITY COMPANIES SERVICE POINTS AND PRIMARY SERVICE CONDUIT, ROUTING, AND SIZE WITH UTILITY COMPANY SERVICE PLANNERS PRIOR TO BEGINNING WORK.
- ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK INSTALLED UNDER HIS CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER THE ACCEPTANCE OF THE BUILDING BY THE OWNER. SHOULD DEFECTS OCCUR WITHIN THIS PERIOD, REPAIR AND/OR REPLACE DEFECTIVE ITEMS AT NO EXPENSE.
- ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF HIS EQUIPMENT AND WORK WITH OTHER BUILDING TRADES TO AVOID INTERFERENCE'S BETWEEN HIS WORK AND THE WORK OF OTHER BUILDING TRADES. IF ANY DISCREPANCIES OCCUR, CONSULT WITH THE ARCHITECT AND/OR OWNER BEFORE CONTINUING.
- THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND/OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACES.
- THE ELECTRICAL CONTRACTOR SHALL PERIODICALLY REMOVE FROM THE SITE ALL DEBRIS AND RUBBISH ACCUMULATING AS A RESULT OF THE ELECTRICAL INSTALLATION. UPON COMPLETION OF THE PROJECT, HE SHALL DISPOSE OF ALL DEBRIS AND RUBBISH AND SHALL LEAVE ALL AREAS CLEAN. THE INTERIORS OF ALL CABINETS, PULL BOXES, AND EQUIPMENT ENCLOSURES SHALL BE FREE OF ANY DEBRIS.
- UNDERGROUND CONDUIT TO BE SCHEDULE 40 PVC.
- ELECTRICAL JOINTS WILL BE PERMITTED ONLY IN JUNCTION AND OUTLET BOXES. ALL JOINTS SHALL BE FIRMLY BONDED TOGETHER AND TAPED OR SHALL BE MADE WITH MECHANICAL CONNECTORS.
- ELECTRICAL CONTRACTOR TO VERIFY ALL EXT'G ITEMS TO REMAIN AND RECONNECT/RELOCATE NEW CIRCUITS INDICATED IN THE PANEL SCHEULE AS REQ'D TO ENERGIZE THE COMPLETE BUILDING AS INTENDED.
- PATIENT CARE SPACE (SPACE WITHIN A HEALTH CARE FACILITY WHERE PATIENTS ARE INTENDED TO BE EXAMINED OR TREATED) ARE TO COMPLY WITH NEC "SECTION 517", WITH SPECIAL ATTENTION TO THE FOLLOWING SECTIONS.
  - 517.13 GROUNDING OF RECEPTACLES AND FIXED ELECTRICAL EQUIPMENT IN PATIENT CARE AREAS.
  - 517.14 PANELBOARD BONDING.

NOTE: ALL PATIENT CARE SPACES AT THIS FACILITY ARE INTENDED TO BE "BASIC CARE SPACES".
- ALL EQUIPMENT IS TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.

## LIGHTING FIXTURE SCHEDULE

TYPE	BRAND	MODEL #	MOUNTING TYPE	LAMP	TOTAL FIXTURE POWER	VOLTAGE	NOTES:
A	METALUX	24CZ-LD5-45-UNV-L835-CD1-U-WAA	RECESSED	4558LM/3500K/LED	35.7W	UNV	WAVELINX WIRELESS SENSOR
B	METALUX	14CZ-LD5-39-UNV-L835-CD1-U-WAA	RECESSED	4035LM/3500K/LED	35.7W	UNV	WAVELINX WIRELESS SENSOR
C	METALUX	45NLED-LD5-46SL-LN-UNV-L835-CD1-U	SURFACE	4708LM/3500K/LED	34.6W	UNV	-
D	METALUX	22CZ-LD5-29-UNV-L835-CD1-U	RECESSED	2838LM/3500K/LED	20.9W	UNV	-
E	METALUX	22CZ-LD5-44-UNV-L835-CD1-U-WAA	RECESSED	4348LM/3500K/LED	32.8W	UNV	WAVELINX WIRELESS SENSOR
F	LUMARK	XTOR1B-W	SURFACE	1396LM/4000K/LED	12.0W	UNV	-
G	MCGRAW-EDISON	GLEON-SA4C-740-U-T3-BZ	PARKING	31307LM/4000K/LED	225.0W	UNV	RPSQ-25-4-11-AB-D1-CB POLE
H	PORTFOLIO	6LDC109040D010W LSKT6IP66	RECESSED EXTERIOR	1000LM/4000K/LED	10.0W	UNV	EXTERIOR EAVE FIXTURE
XA	SURELITES	APC7R	EXIT LIGHT	(1) LED	1.4W	120V	-

## EATON WAVELINX BILL OF MATERIALS

- WB1** - EATON W2L-RL-\* WALL BOX CONTROLLER (VERIFY COLOR WITH OWNER)
- WB2** - EATON W1L-\* WALL BOX CONTROLLER (VERIFY COLOR WITH OWNER)
- WAC** - EATON WAC2-POE WIRELESS AREA CONTROLLER.
- SP1** - EATON WSP-MV-010 SWITCH PACK
- WIRELESS CONNECTION - ALL LIGHTING CONNECTIONS ARE SHOWN FOR WIRELESS GROUPING ONLY.
- SUPPLIER TO PROVIDE INITIAL PROGRAMING AND TRAINING FOR WAVELINK SYSTEM. (CONTACT CRITES TIDEY (231) 941-8686)

## INVERTER SCHEDULE

TYPE	BRAND	MODEL	MOUNTING TYPE	POWER	INPUT VOLTAGE	OUTPUT VOLTAGE
INV-1	MYERS	LV-3-R1	WALL	441 VA	120 V	120 V

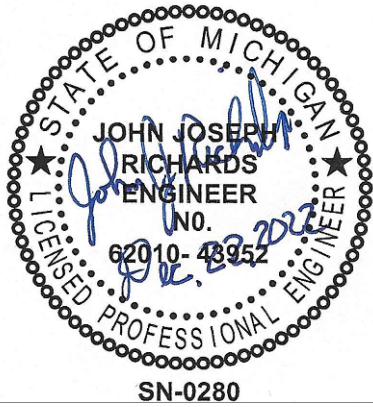
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100 RIPLEY  
ALPENA, MI 49707

BRUCE DIETZ  
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NOTES/SCHEDULES/  
ONE-LINE - ELECTRICAL

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1209 U.S. 23  
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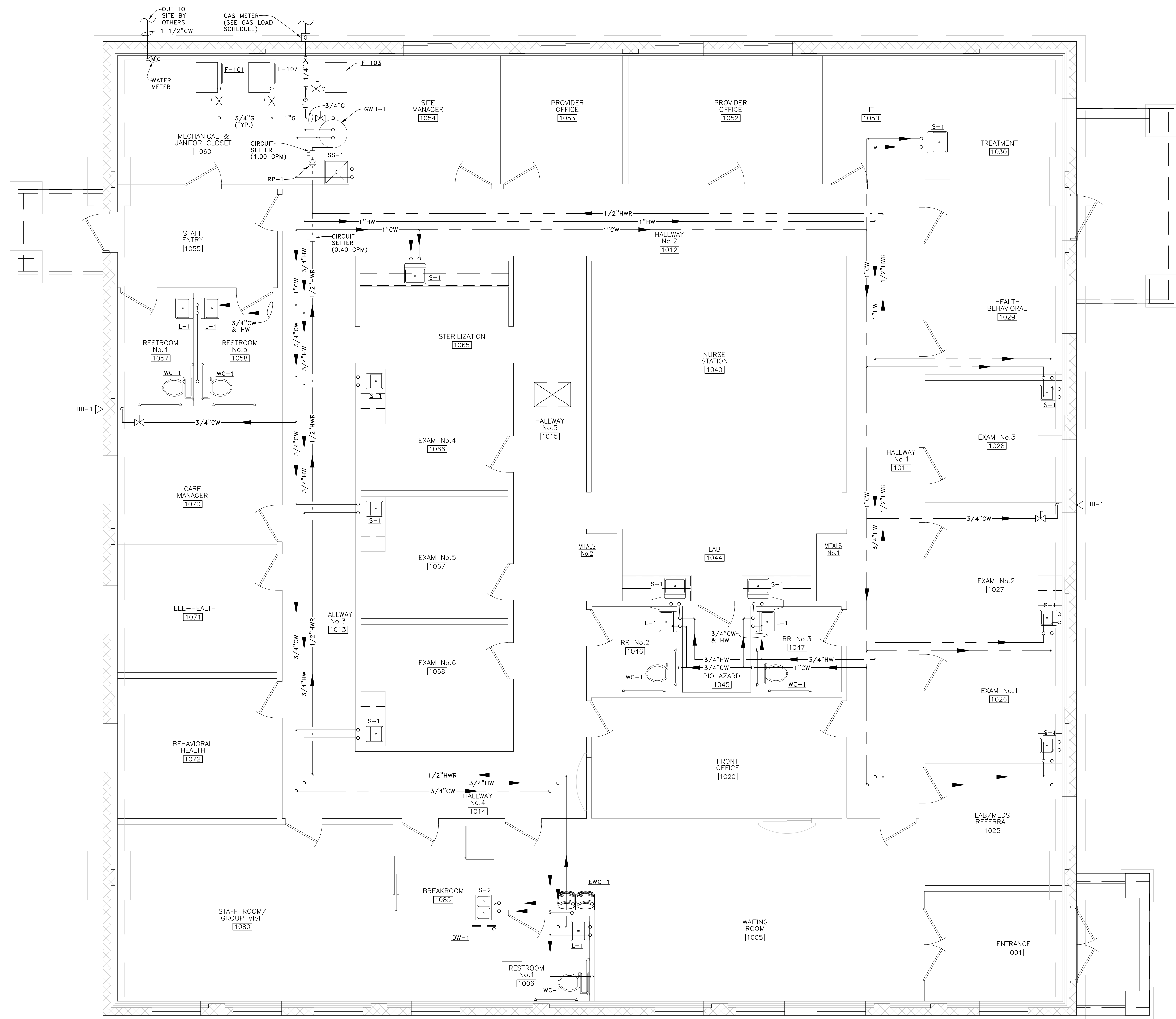
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JOHN JOSEPH RICHARDS  
ENGINEER  
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LICENSED PROFESSIONAL ENGINEER  
SN-0280

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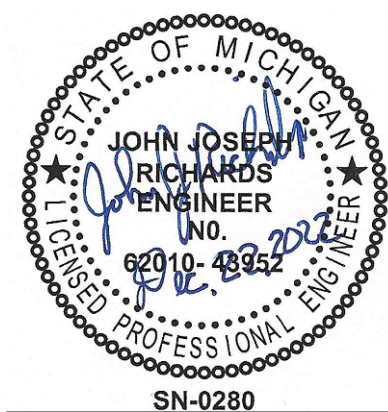
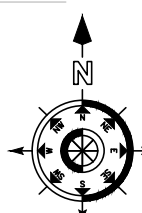
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FIRST FLOOR PLAN - PLUMBING PIPING

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



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P2

FLOOR PLAN - PLUMBING  
PIPING

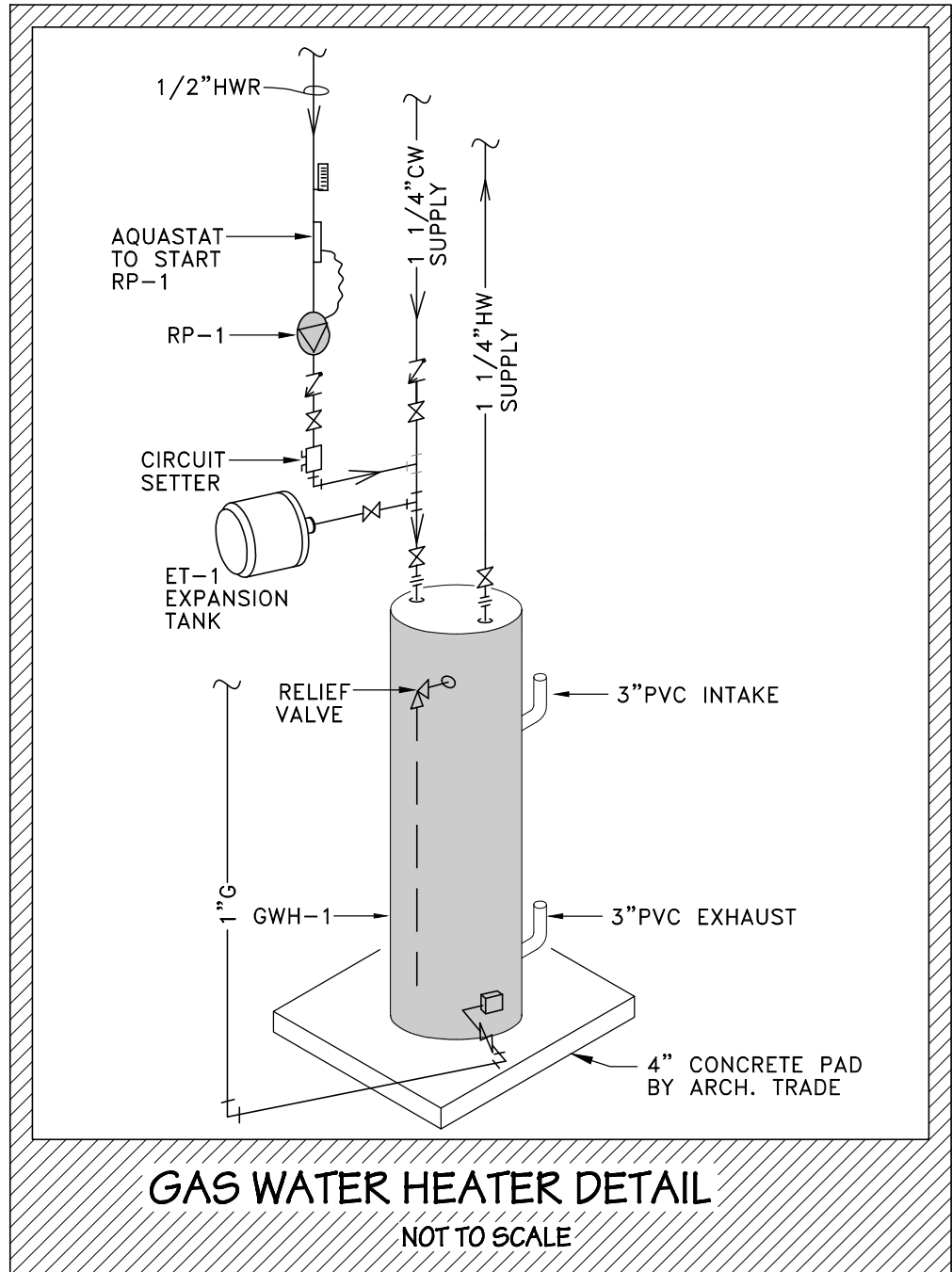
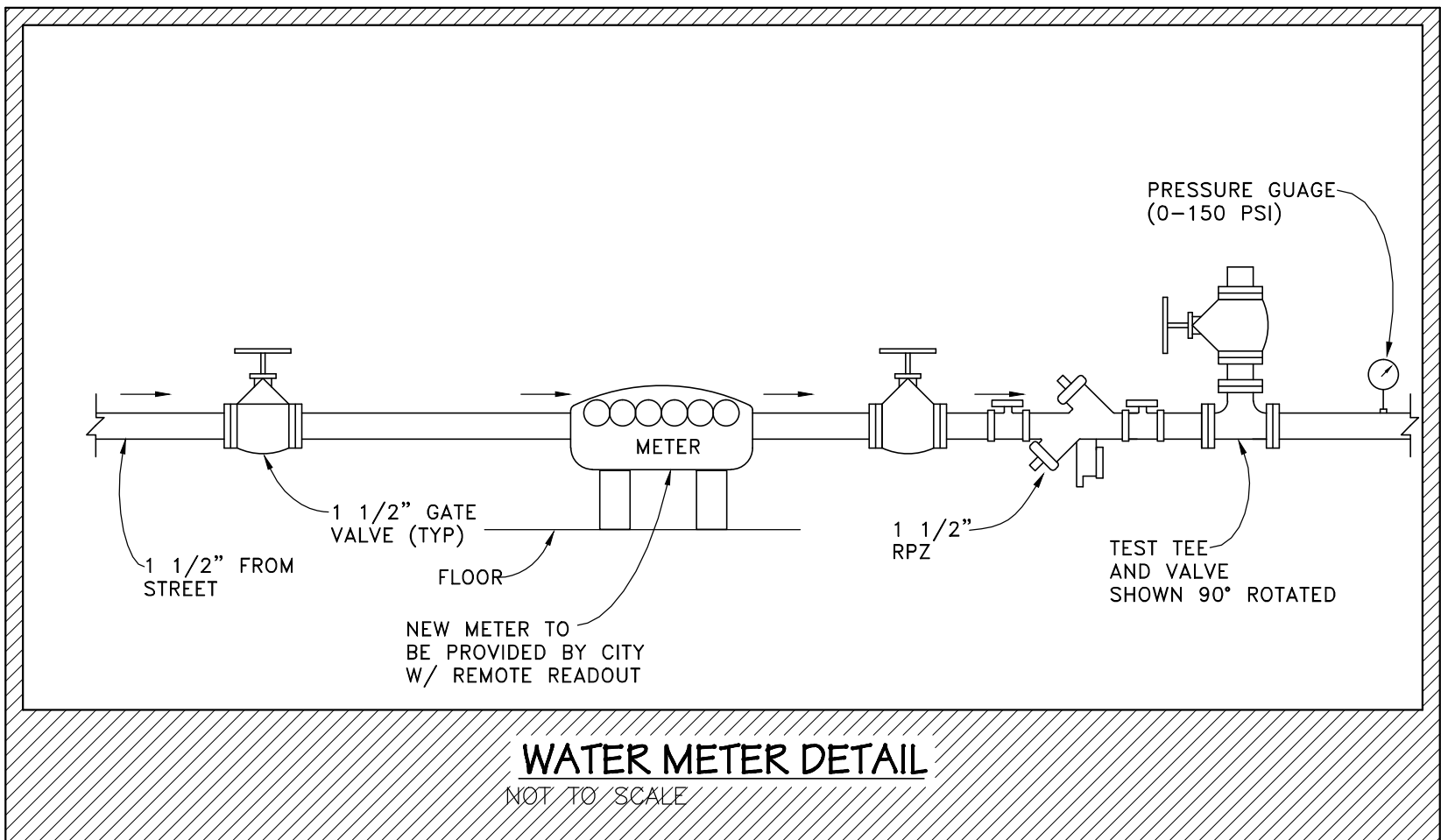
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**BRUCE DIETZ**  
DEVELOPER  
DESIGN-BUILD-COMMERCIAL CONSTRUCTION

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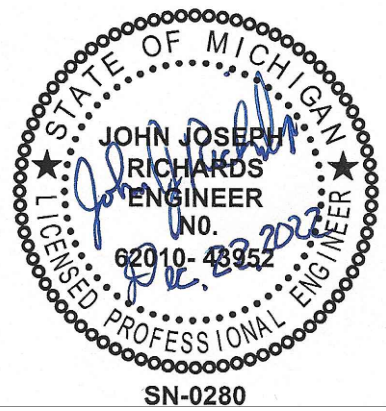
PLUMBING FIXTURE SCHEDULE							
MARK	FIXTURE	MANU.	MODEL	SAN.	HOT	COLD	REMARKS
WC-1	WATER CLOSET	AM. STD.	2467.100	3"	-	1"	W/ OLSONITE #95 SEATE, 17" HIGH
L-1	LAVITORY	AM. STD.	0355.027	1 1/2"	1/2"	1/2"	W/ DELTA FAUCET #501
S-1	SINK	ELKAY	BLR-150C	1 1/2"	1/2"	1/2"	COMBINATION INCLUDES FAUCET
S-2	SINK	ELKAY	LRAD221955	1 1/2"	1/2"	1/2"	W/ T & S BRASS #B-0892-01 FAUCET
S-3	SINK	ELKAY	LR2519	1 1/2"	1/2"	1/2"	W/ ELKAY #LK100CR FAUCET
EW-1	ELECTRIC WATER COOLER	ELKAY	EZSTLG8SC	1 1/2"	-	1/2"	-
GWH-1	GAS WATER HEATER	AO SMITH	BTH-120	-	-	1/2"	100 GALL., 120,000 BTU/HR
FD-1	FLOOR DRAIN	ZURN	ZN-415-5B	3"	-	-	W/ TYPE "B" ROUND STRAINER, SEE NOTE #6
SS-1	SERVICE SINK	FLORESTONE	MSR2424	3"	1/2"	1/2"	W/MR-370, MR-371, & MR-372
HB-1	HOSE BIB	WOODFORD	MODEL 67	-	-	3/4"	FREEZELESS W/ VACUUM BREAKER
DW-1	DISHWASHER	BY OTHERS	-	1 1/2"	1/2"	1/2"	-
NOTES: 1. SEE ARCHITECTURAL DRAWINGS FOR ALL ROUGH-IN LOCATIONS OF PLUMBING FIXTURES. 2. WC-1 TO CONFORM TO ADA REQUIREMENTS. 3. VERIFY COLOR WITH ARCHITECT BEFORE ORDERING. 4. INSULATE ALL EXPOSED SANITARY AND DOMESTIC HOT AND COLD WATER PIPING TO LAVATORIES. 5. PROVIDE A POWERS 480 MIXING VALVE AT EACH LAV. 6. PROVIDE A SURE SEAL MODEL #SS2009 TRAP SEAL AT EACH FLOOR DRAIN							



GAS LOAD SCHEDULE		
MARK	EQUIPMENT	GAS LOAD
F-101	FURNACE	100,000 BTU/HR
F-102	FURNACE	100,000 BTU/HR
F-103	FURNACE	100,000 BTU/HR
GWH-1	GAS WATER HEATER	120,000 BTU/HR
TOTAL GAS LOAD		420,000 BTU/HR

PLUMBING NOTES	
GENERAL NOTES	
1.	ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS.
2.	EACH CONTRACTOR SHALL BE THOROUGHLY KNOWLEDGEABLE OF REGULATIONS GOVERNING HIS PRODUCT AND SERVICE AND SHALL ASSUME RESPONSIBILITY OF INSTALLATION IN ACCORDANCE WITH THOSE REGULATIONS.
3.	CONTRACTORS TO VERIFY ALL DIMENSIONS RELATIVE TO THEIR SPECIFIC WORK AND SHALL BE THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS PRIOR TO INITIATING THEIR WORK. DISCREPANCIES SHALL BE REPORTED TO THE GENERAL CONTRACTOR OR TO HIS ON-SITE REPRESENTATIVE.
4.	FAILURE TO DETECT INFERIOR WORK, OR WORK NOT IN ACCORDANCE WITH THESE CONSTRUCTION DOCUMENTS, SHALL NOT BE CONSTRUED AS ACCEPTABLE OF SUCH WORK.
5.	ANY PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES FOR MECHANICAL OR PLUMBING SYSTEMS, ETC. SHALL BE FIRE-STOPPED AND DRAFT-STOPPED WITH NON-COMBUSTIBLE MATERIALS PER CODE REQUIREMENTS TO MAINTAIN STRUCTURAL AND FIRE RESISTIVE INTEGRITY.
6.	DRAWINGS ARE DIAGRAMMATIC ONLY, FIELD VERIFY EXISTING CONDITIONS.
7.	PRIOR TO SUBMITTING A PROPOSAL, BIDDER SHALL HAVE VISITED THE CONSTRUCTION SITE. HE SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OF NEGLIGENCE ON HIS PART.
8.	PLUMBING CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, INCLUDING COSTS ASSESSED BY THE MECHANICAL UTILITY COMPANIES, AND ARRANGE FOR ALL INSPECTIONS FOR HIS WORK. AT THE COMPLETION OF PLUMBING WORK, THE PLUMBING CONTRACTOR SHALL FURNISH THE OWNER WITH ALL CERTIFICATES OF FINAL INSPECTION AND APPROVALS.
9.	PLUMBING CONTRACTOR SHALL GUARANTEE ALL WORK INSTALLED UNDER HIS CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER THE ACCEPTANCE OF THE BUILDING BY THE OWNER. SHOULD DEFECTS OCCUR WITHIN THIS PERIOD, REPAIR AND/OR REPLACE DEFECTIVE ITEMS AT NO EXPENSE TO THE OWNER.
10.	PLUMBING CONTRACTOR SHALL COORDINATE LOCATIONS OF HIS EQUIPMENT AND WORK WITH OTHER BUILDING TRADES TO AVOID ANY INTERFERENCE'S BETWEEN HIS WORK AND OTHER BUILDING TRADES. IF ANY DISCREPANCIES OCCUR, CONSULT WITH THE GENERAL CONTRACTOR OR HIS ON-SITE REPRESENTATIVE.
11.	THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND/OR OTHER REPAIR DUE TO THE INSTALLATION OF MECHANICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC. AS REQUIRED.
12.	THE CONTRACTOR SHALL EMPLOY QUALIFIED AND EXPERIENCED WORKMEN FOR THIS WORK.
13.	THE PLUMBING CONTRACTOR SHALL PERIODICALLY REMOVE FROM THE SITE ALL DEBRIS AND RUBBISH ACCUMULATING AS A RESULT OF THE MECHANICAL INSTALLATION. UPON COMPLETION OF THE PROJECT, HE SHALL DISPOSE OF ALL DEBRIS AND RUBBISH AND SHALL LEAVE ALL AREAS CLEAN.
PLUMBING CONSTRUCTION NOTES	
GENERAL	
1.	REFERENCE ARCHITECTURAL DRAWINGS FOR ALL ROUGH-IN DIMENSIONS, BOTH FIXTURES AND WALLS.
2.	ALL VALVES SHALL BE ACCESSIBLE.
3.	WATER HAMMER ARRESTORS SHALL BE INSTALLED AND SHALL BE ACCESSIBLE.
4.	PLUMBING CONTRACTOR TO EXTEND WATER AND SANITARY LINES AND MAKE UTILITY CONNECTIONS.
SPECIFICATIONS	
1.	PLUMBING DESIGN PER THE LATEST MICHIGAN PLUMBING CODES.

PLUMBING LEGEND			
— S —	SANITARY SEWER	— FS —	FORCED SANITARY
— V —	SANITARY VENT	— CW —	COLD WATER LINE
— HW —	HOT WATER LINE	— HWR —	HOT WATER RETURN
— G —	GAS LINE	— BV —	BALL VALVE



PROJECT# 2210-06

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APOLLO  
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