ADMIN. BLD. ADDITION

4252 W 2200 S SYRACUSE UT, 84075

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PROJECT DIRECTORY

OWNER

DAVID HATCH 4252 W. 2200 S SYRACUSE UT, 84075

DESIGNER

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ELECTRICAL MAIN FLOOR LIGHTING PLAN

ELECTRICAL DETAILS

ELECTRICAL DETAILS

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CODE SUMMARY

2021 INTERNATIONAL BUILDING CODE. (I.B.C.)

2021 INTERNATIONAL EXISTING BUILDING CODE (I.E.B.C)

2021 INTERNATIONAL PLUMBING CODE (I.P.C.)

2021 INTERNATIONAL FIRE CODE (I.F.C.)

2021 INTERNATIONAL MECHANICAL CODE (I.M.C) 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

PROJECT LOCATION:

ADDRESS: 42552 W. 2200 S

CITY: SYRACUSE UT, 84075

BUILDING AREAS: MAIN FLOOR ADDITION: 223 SF

MAIN FLOOR REMODEL:

760 SF TOTAL PROJECT:

PROJECT INFORMATION

CONSTRUCTION DOCUMENTS CONSIST OF ONE OR MORE OF THE FOLLOWING ELEMENTS:

CONSTRUCTION DRAWINGS SPECIFICATIONS STRUCTURAL CALCULATIONS CONTRACT FORMS AND CONDITIONS ADDENDA

CONTRACTORS, SUBCONTRACTORS, AND OTHERS WHO PROVIDE LABOR AND/OR MATERIALS REFERENCING THESE DRAWINGS ARE RESPONSIBLE FOR OBTAINING AND REVIEWING ALL CURRENT CONSTRUCTION DOCUMENTS.

MODIFICATIONS AND REVISIONS

CONTRACTORS, SUBCONTRACTORS, AND OTHERS ARE TO REPORT ANY DISCREPANCIES OR ERRORS TO DUNCAN FRAZIER IMMEDIATELY. ANY CHANGES TO THE PROJECT WILL BE VERIFIED WITH THE OWNER BY THE DESIGNER/ENGINEER AND REVISIONS WILL BE ISSUED BY DESIGNER. CONTRACTORS ARE NOT TO MAKE ALTERATIONS OF ANY KIND WITHOUT THE PRIOR WRITTEN CONSENT OF DESIGNER/ENGINEER. DISCREPANCIES NOT REPORTED IMMEDIATELY ARE RESPONSIBILITY OF CONTRACTOR.

CONTRACTORS SHALL NOT SCALE FROM DRAWINGS. DIMENSIONS ARE PROVIDED TO ALLOW FOR ACCURATE CONSTRUCTION OF BUILDING. QUESTIONS ARISING FROM DIMENSIONS SHOULD BE RESOLVED BY CONTACTING THE DESIGNER/ENGINEER.

DEFERRED SUBMITTAL

2.TRUSS PACKAGE 3. LANDSCAPE PLANS 24001

ISSUE DATE:

CONSTRUCTION CONSTRUCTION SET

AND REQUIREMENTS. ANY NOTES AND/OR AND THE AND STRUCTURAL ENGINEER SHALL GOVERN LACEPT WHEN REQUIREMENTS SET FORTH IN THIS SPECIFICATION EXCEED ENGINEER'S REQUIREMENTS.

GENERAL SITE NOTES

- ALL FINISH GRADING TO SLOPE AWAY FROM PROPOSED STRUCTURES AT 5% SLOPE (MIN.) FOR A MINIMUM OF 10'-0" FROM BUILDING.
- DRAINAGE PATTERN OF FINISH GRADING SHALL NOT CHANGE DRAINAGE PATTERN ONTO ADJACENT LOTS.

GENERAL CONCRETE NOTES

- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL RESIDENTIAL CODE (I.R.C.), AND LOCAL ORDINANCES.
- 2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO POURING CONCRETE.
- 3. CONTRACTOR SHALL COORDINATE WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS PRIOR TO POURING CONCRETE. PROVIDE SLEEVES, BLOCK-OUTS, ETC. AS REQUIRED.
- 4. CONTRACTOR SHALL PROVIDE ALL SHORING AS REQUIRED. BRACE WALLS AS REQUIRED UNTIL FLOOR DIAPHRAGMS ARE IN PLACE.
- 5. SEE STRUCTURAL CALCULATIONS FOR ADDITIONAL STRUCTURAL MEMBER REQUIREMENTS.
- 6. ALL EXTERIOR FOOTINGS SHALL BEAR 30" (MIN.) BELOW FINISH GRADE, OR UNCONDITIONED CRAWL SPACE. UNLESS NOTED OTHERWISE
- 7. TOP OF FOUNDATION WALL TO BE 6" (MIN.) ABOVE FINISH GRADE TYPICAL.
- 8. COORDINATE TOP OF CONCRETE & BOTTOM OF FOOTING ELEVATIONS

WITH SECTIONS, FOOTING & FOUNDATION PLAN, AND ELEVATIONS.

- 9. FOOTINGS, FOUNDATION, AND SLABS SHALL BE CONSTRUCTED ON PROPERLY PREPARED MATERIAL. SUB-BASE TO BE UNDISTURBED, NATURAL SOILS OR ENGINEERED FILL PER THE SOILS ENGINEER'S RECOMMENDATIONS. ENGINEERED FILL SHALL BE TESTED AND APPROVED BY A LICENSED SOILS ENGINEER.
- 10. PROVIDE 4" GRANULAR FILL UNDER ALL SLABS.
- 11. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO THE STANDARD SPECIFICATIONS ASTM A615 GRADE 60, AND MUST BE PROPERLY TIED INTO PLACE PRIOR TO POURING CONCRETE, (FIELD BENT DOWELS MAY BE GRADE 40).
- 12. ALL SPLICES IN CONTINUOUS CONCRETE REINFORCING BARS SHALL LAP
 40 BAR DIAMETERS MIN. ALL SPLICES SHALL BE MADE IN A COMPRESSION
 ZONE UNLESS OTHERWISE NOTED. ALL CONT. REINFORCING SHALL
 TERMINATE WITH A 90° BEND OR SEPARATE CORNER BARS.
- 13. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI DETAILING MANUAL AND CURRENT ACI
- 14. TO MINIMIZE CRACKING OF SLABS, PROVIDE #4 BARS @ 18" O.C. EACH WAY 1" CLEAR FROM TOP. TYPICAL ALL SLABS ON GRADE.
- 15. ALL EXTERIOR FOOTINGS SHALL BE PROPERLY FORMED. INTERIOR FOOTINGS MAY BE MONOLITHIC WITH SLAB.
- 16. POSITION ALL WINDOW AND DOOR BUCKS TO ALLOW BASEMENT HEAD HEIGHTS TO BE AT 6'-8" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE. COORDINATE ALL HEIGHTS WITH FLOOR PLANS, ELEVATIONS, AND SCHEDULES.
- 17. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS. FLAT SLABS AND CONCRETE RETAINING WALLS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 P.S.I. SEE STRUCTURAL CALCULATIONS FOR ADDITIONAL CONCRETE REQUIREMENTS.
- 18. RECESS FOUNDATION AND POUR SLAB THROUGH, TYPICAL ALL GARAGE DOORS AND STORE FRONT TYPE WINDOWS AS INDICATED ON FOOTING AND FOUNDATION PLAN.
- 19. PROVIDE ISOLATION JOINTS AROUND COLUMNS, SPREAD FOOTINGS, CONTROL JOINTS, ETC. AS REQUIRED.
- 20. GARAGE FLOOR TO HAVE 2% SLOPE (MIN.) TOWARD EXTERIOR GARAGE DOORS.
- 21. HOLD DOWNS SHALL BE POSITIONED AS INDICATED BY STRUCTURAL ENGINEER. ALL HOLD DOWNS TO BE POSITIONED TO ALLOW ATTACHMENT TO FULL HEIGHT DOUBLE STUDS.
- 22. CONTRACTOR IS RESPONSIBLE FOR PROPER LOCATING AND PLACING OF ALL ANCHOR BOLTS, HOLD DOWNS, ANCHORS, STRAPS, ETC. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
- 23. WHERE FOUNDATION WALLS OR FOOTINGS SUPPORT MASONRY WALLS, PROVIDE MATCHING DOWELS OF SAME SIZE AND SPACING.

GENERAL FRAMING NOTES

- 1. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL RESIDENTIAL CODE (I.R.C.), AND LOCAL ORDINANCES.
- 2. COORDINATE ALL FLOOR FRAMING WITH FLOOR PLANS TO VERIFY STEPS AND/OR OPENINGS IN FLOOR FRAMING.
- 3. CONTRACTOR TO CONSULT STRUCTURAL CALCULATIONS TO VERIFY ALL FRAMING MEMBER SIZES, LOCATIONS, LOAD PATHS, AND ADDITIONAL STRUCTURAL MEMBER REQUIREMENTS.
- 4. ALL DIMENSIONS AND CONDITIONS TO BE VERIFIED BY BUILDER PRIOR TO ANY WORK.
- 5. PROVIDE SHOP DRAWINGS (TO BE REVIEWED BY ARCHITECT) FOR ALL STRUCTURAL STEEL.
- 6. FRAMING SHALL BE AS INDICATED IN STRUCTURAL PLANS. CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM ARCHITECT FOR ANY VARIATIONS FROM THESE PLANS.
- 7. ALL STRUCTURAL MEMBERS SHALL CONFORM TO THE U.S. DEPARTMENT OF COMMERCE STANDARD PS-56 AND THE INTERNATIONAL RESIDENTIAL CODE.
- 8. ALL STRUCTURAL PLYWOOD SHALL BE STRUCTURAL GRADE I OR STRUCTURAL
- 9. ALL JOISTS, RAFTERS BEAMS, HEADERS AND COLUMNS SHALL BE DOUGLAS FIR LARCH NO.2 OR BETTER, UNLESS NOTED OTHERWISE.
- 10. ALL WOOD CONNECTIONS MUST CARRY THE CAPACITY OF THE SUPPORTED MEMBERS. CONTRACTOR IS RESPONSIBLE FOR CONNECTION IF OTHER THAN STANDARD CONNECTIONS ARE REQUIRED. SEE PROJECT ENGINEER FOR ADDITIONAL ASSISTANCE.
- 11. ALL EXTERIOR HOUSE WALLS TO BE 2" X 6" D.F.#2 OR BETTER AT 16" O.C. SEE STRUCTURAL FOR SHEAR WALL REQUIREMENTS.
- 12. ALL INTERIOR HOUSE WALLS TO BE 2"X4" D.F.#2 OR BETTER AT 16" O.C. SEE STRUCTURAL DRAWINGS AND CALCULATIONS FOR ANY SHEAR WALL REQUIREMENTS.
- 13. ALL LUMBER IN CONTACT WITH CONCRETE OR WITHIN 6" OF EARTH SHALL BE EITHER FOUNDATION REDWOOD MARKED BY THE REDWOOD INSPECTION SERVICE OR PRESSURE TREATED LUMBER.
- 14. PROVIDE DOUBLE BASE PLATES AS PER SECTIONS ON FOUNDATION WALLS WITH ANCHOR BOLTS AS PER FOOTING & FOUNDATION PLAN. ANCHOR BOLTS MUST GO THROUGH BOTH BASE PLATES.
- 15. ALL CORNERS, INTERSECTIONS, AND BEAMS MUST HAVE ONE OF THE DOUBLE TOP CHORDS CONTINUOUS, LAPPED AS PER CODE, OR STRAPPED WITH SIMPSON ST22.
- 16. FLOOR JOISTS SHALL HAVE ALL BLOCKING, BRACING, BRIDGING, ETC. AS RECOMMENDED BY THE I.R.C. AND THE MANUFACTURER.
- 17. CONNECT ALL WOOD TO CONCRETE, WOOD TO STEEL, AND WOOD TO WOOD WITH SIMPSON OR APPROVED EQUAL CONNECTIONS UNLESS MEMBER IS TOP BEARING AS PER ENGINEER.
- 18. WHEN POSSIBLE BEAMS SHALL BE RECESSED IN FLOOR/CEILING ASSEMBLY. BEAMS SHALL NOT PENETRATE CEILING PLANE.
- 19. ALL JOISTS AND RAFTERS SHALL HAVE SOLID BLOCKING AT THE BEARING LOCATIONS. CONNECT BLOCKING TO TOP OF WALL WITH SIMPSON A34 FRAMING ANCHORS. ROOF JOISTS TO HAVE HURRICANE CLIPS AT 24" O.C. MINIMUM, UNLESS NOTED OTHERWISE.
- 20. ALL COLUMNS SHALL EXTEND DOWN THROUGH THE STRUCTURE TO THE FOUNDATION. ALL COLUMNS SHALL BE BRACED AT ALL FLOOR LEVELS. COLUMNS SHALL BE AS WIDE AS THE MEMBER THEY SUPPORT.
- 21. ALL HEADERS (6'-0" IN LENGTH OR LESS) SHALL BE SUPPORTED BY ONE TRIMMER AND A KING STUD EACH END. MINIMUM. ALL BEAMS (LONGER THAN 6'-0" IN LENGTH) SHALL BE SUPPORTED BY TWO TRIMMERS AND A KING STUD EACH END, MINIMUM, UNLESS NOTED OTHERWISE.
- 22. COORDINATE SHEATHING REQUIREMENTS WITH SHEAR WALL SCHEDULES AND STRUCTURAL CALCULATIONS.
- 23. ALL EXTERIOR SHEATHING TO BE O.S.B. WITH 8D COMMON NAILS AT 6" O.C. FOR EDGE NAILING AND 12" O.C. FIELD NAILING UNLESS NOTED OTHERWISE. BLOCK ALL PANEL EDGES AND START SHEATHING AT BASE PLATE AND NAIL INTO BOTH PLATES. SHEATHING MUST BE CONTINUOUS FROM BASE PLATE TO TOP PLATE. COORDINATE WITH SHEAR WALLS AS INDICATED ABOVE.
- 24. NAILS OR OTHER APPROVED SHEATHING CONNECTIONS SHALL BE DRIVEN FLUSH BUT NOT BREAK THE SURFACE OF THE SHEATHING. NAIL ALL SHEAR WALLS AS PER SHEAR WALL SCHEDULE AND STRUCTURAL CALCULATIONS.
- 25. SEE CURRENT EDITION OF THE INTERNATIONAL RESIDENTIAL CODE FOR ADDITIONAL STANDARD NAILING REQUIREMENTS.
- 26. ALL FLOOR SHEATHING SHALL BE GLUED AND SCREWED IN PLACE. NO SQUEAKING SHALL OCCUR.

GENERAL FRAMING NOTES (CONTINUED)

- 27. ALL ROOF PITCHES TO BE AS NOTED ON ROOF FRAMING PLAN.
- 28. ALL EAVES AS NOTED ON ELEVATIONS, SECTIONS, AND ROOF PLAN. ALL FASCIA ELEVATIONS SHALL BE AS INDICATED ON ELEVATION DRAWINGS.
- TRUSS MANUFACTURER SHALL DESIGN TRUSSES IN STRICT COMPLIANCE WITH FRAMING PLANS IN THIS PLAN SET. ANY ALTERATIONS FROM INDICATED TRUSS LAYOUT MUST HAVE WRITTEN APPROVAL FROM ARCHITECT AND OR ENGINEER.
- 30. PREFABRICATED AND ENGINEERED TRUSSES ARE TO BE USED FOR THE ROOF UNLESS NOTED OTHERWISE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. TRUSS MANUFACTURER SHALL DESIGN TRUSSES FOR ALL LOADS PER CURRENT I.R.C. INCLUDING UNBALANCED SNOW LOADS, SNOW DRIFTING, SNOW BUILD-UPS IN VALLEYS AND ON EAVES, ETC.. TRUSSES TO BE DESIGNED TO CARRY POINT LOADS INDICATED IN FRAMING PLANS AND STRUCTURAL CALCULATIONS.
- 31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE TRUSSES AS PER TRUSS MANUFACTURER'S RECOMMENDATIONS. NO PREFABRICATED TRUSS SHALL BE

MODIFIED IN THE FIELD.

DURING TRUSS ERECTION.

- 32. FULL BEARING IS REQUIRED UNDER ROOF TRUSSES. BLOCK THE STUDS TO THE CONCRETE FOUNDATION. USE LUS26 HANGERS FOR ALL MONO-JACK TRUSSES, HUS26 HANGERS FOR ALL TRUSSES ON GIRDERS AND HGUS28-2 GIRDER TO GIRDER HANGERS UNLESS NOTED OTHERWISE BY TRUSS MANUFACTURER. HANGERS MUST BE CAPABLE OF SUPPORTING FULL WEIGHT CAPACITY OF MEMBER.
- 33. ALL ROOF SHEATHING TO BE AS INDICATED ON PLANS AND IN STRUCTURAL CALCULATIONS. BLOCK ALL PANEL EDGES UNLESS NOTED OTHERWISE. PROVIDE (2) 2 X SHAPED BLOCKING AT RIDGES UNLESS CONTINUOUS MEMBER EXISTS.
- 34. COMPLETELY SHEATH ROOF UNDER OVER BUILD AREAS PRIOR TO FRAMING OVERBUILD. OVER BUILD AREAS TO BE FRAMED AS PER STRUCTURAL DETAILS. FRAME SO AS TO AVOID POINT LOADS ON ROOF.
- 35. TRUSS MANUFACTURER SHALL FIELD VERIFY ALL TRUSS REQUIREMENTS AND DIMENSIONS PRIOR TO FABRICATION.
- 36. BOTTOM CHORDS OF TRUSSES ACTING AS CEILING MEMBERS MUST BE ABLE TO SUPPORT A 10 P.S.F. LIVE LOAD AS PER I.R.C.
- 37. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION OF ALL PRE-ENGINEERED TRUSSES.
- 38. TRUSS MANUFACTURER SHALL INDICATE PROPER BRACING OF ALL COMPRESSION CHORD MEMBERS AS WELL AS PROPER BRACING
- 39. FABRICATION OF TRUSSES SHALL BE AS APPROVED BY ICB EXCEPT THAT THIS SPECIFICATION SHALL GOVERN WHEN IT EXCEEDS ICB REQUIREMENTS.
- 40. TRUSS MANUFACTURER SHALL PROVIDE SHOP DRAWINGS FOR TRUSS DESIGN. FABRICATE TRUSSES FROM APPROVED SHOP DRAWINGS
- FABRICATE TRUSSES IN JIGS WITH MEMBERS ACCURATELY CUT TO PROVIDE GOOD BEARING AT JOINTS. JOINTS SHALL BE ACCEPTABLE IF THE AVERAGE OPENING BETWEEN ENDS OF MEMBERS IMMEDIATELY AFTER FABRICATION IS LESS THAN 1/16". EXCEPT THAT TRUSS COMPRESSION CHORD JOINTS AT SPLICES AND RIDGES SHALL HAVE FULL CONTACT BETWEEN MEMBERS.
- 2. EACH CHORD SECTION SHALL BE ENGAGED IN TWO PANEL POINTS BEFORE BEING SPLICED.
- 43. UNLESS OTHERWISE NOTED, PROVIDE 1/8" CAMBER FOR EACH 6 FEET OF HORIZONTAL TRUSS LENGTH.
- TRUSS FABRICATORS USING METAL PLATES MUST HAVE FABRICATION PLANT INSPECTED FOUR TIMES PER YEAR BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH T.P.I. REGULATIONS. COPIES OF INSPECTIONS ARE TO BE MADE AVAILABLE UPON REQUEST
- ELEVATION AND SECTION DRAWINGS IN THIS PLAN SET HAVE ROOF STRUCTURE DRAWN WITH HEEL HEIGHTS OF 12" FOR ALL TRUSS MEMBERS. HEEL HEIGHTS MAYBE MODIFIED BY TRUSS MANUFACTURER AS REQUIRED FOR ROOF SURFACES TO BE COPLANAR. COORDINATE WITH FRAMING CONTRACTOR AND STICK FRAMED AREAS.

GENERAL ENERGY EFFICIENCY NOTES

- 1. ROOF TRUSSES ARE TO BE CONSTRUCTED WITH RAISED HEELS TO ALLOW INSULATION TO CONTINUE TO AND OVER EXTERIOR WALLS. SEE BUILDING SECTIONS.
- EXTERIOR CORNERS SHALL BE FRAMED AS "CALIFORNIA" CORNERS TO ALLOW FOR CORNER INSULATION.
- AIRTIGHT DRYWALL SYSTEMS SHALL BE USED (USE VAPOR BARRIERS AT
- 4. INSULATE AT ALL FLOOR/CEILING ASSEMBLY CONNECTIONS. (I.E. BEHIND RIM BOARDS AND JOIST BEARING LOCATIONS)

ALL EXTERIOR WALLS AND CEILINGS).

- 5. PROVIDE RIGID FOUNDATION INSULATION (HALF DRAPED) AT INSIDE OF STEM WALLS BELOW BASEMENT.
- 6. ALL EXTERIOR DOORS SHALL BE WEATHER STRIPPED AND AIR TIGHT
- 7. SEAL AROUND ALL ELECTRICAL, PLUMBING, OR MECHANICAL PENETRATIONS AT EXTERIOR WALL AND IN CEILING/FLOOR OR CEILING
- ROOF ASSEMBLIES.

 8. CAULK AROUND ALL EXTERIOR DOOR AND WINDOW PENETRATIONS
- . SEAL AND INSULATE AROUND ALL MECHANICAL DUCTS.

COMPATIBLE WEATHER PROOF SEALANT.

THERMAL & MOISTURE PROTECTION NOTES

- 1. PROVIDE 4" PERFORATED DRAIN PIPE ON CRUSHED ROCK BED AT FOOTING PERIMETER. DRAIN TO SUMP UNLESS NOTED OTHERWISE.
- 2. APPLY ASPHALT WATERPROOFING, OR APPROVED EQUAL, TO ALL FOUNDATION WALLS. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
- 3. PROVIDE CONTINUOUS VAPOR BARRIER TO WARM SIDE (WINTER) OF ALL EXTERIOR WALLS.
- 4. ALL EXTERIOR WALLS TO BE INSULATED WITH R-19 INSULATION,
- 5. COVER SHEATHING OF ALL EXTERIOR WALLS WITH CONTINUOUS
- TYVEK HOUSE WRAP OR APPROVED EQUAL.

 PROVIDE VENTILATION OF ATTIC AND CRAWL SPACES AS PER CODE.
- SEE ELEVATIONS FOR LOCATION AND TYPE OF ATTIC VENTING.

 ALL ATTIC AREAS TO BE INSULATED WITH R-40 BLOWN INSULATION,

MINIMUM.

- 8. PROVIDE 30# ASPHALT SATURATED FELT OVER ALL ROOF SHEATHING LAP OVER ICE AND WATER SHIELD.
- PROVIDE CORROSION RESISTANT CONTINUOUS METAL DRIP-EDGE AT ROOF PERIMETER.
- 10. PROVIDE CONTINUOUS FASCIA AND SOFFIT WITH CONTINUOUS SOFFIT VENT AS PER ELEVATIONS. FINISH MATERIAL AND COLOR TO BE SELECTED BY OWNER IF NOT SPECIFIED IN PLANS
- PROVIDE FLASHING AT BASE OF ALL FRAMED WALLS. FLASHING TO DIRECT WATER TO EXTERIOR OF FOUNDATION WALL.
- ALL PITCHED ROOFS WITH SHINGLE FINISH SHALL HAVE SELF-ADHERING SHEET MEMBRANE (GRACE ICE AND WATER SHIELD OR APPROVED EQUAL) AT ALL VALLEYS TO 2'-0" MIN. FROM VALLEY LINE, AND AT ALL SOFFITS/OVERHANGS OF ROOF (EXTEND MEMBRANE TO 2'-0" MIN. OVER INSULATED ATTIC SPACE).

GENERAL MASONRY NOTES

1. MASONRY VENEER TO BE TIED TO FRAMING WITH MASONRY TIES @ 16" O.C. EACH WAY. SEE ELEVATIONS.

GENERAL WINDOW AND DOOR NOTES

- 1. ALL WINDOWS TO HAVE HEADS AT 6'-8" ABOVE FINISH FLOOR, UNLESS NOTED OTHERWISE. COORDINATE WITH FLOOR PLANS, ELEVATIONS, AND WINDOW SCHEDULE.
- 2. ALL WINDOW SIZES AS PER FLOOR PLANS AND/OR WINDOW SCHEDULE. POSITION AS INDICATED ON FLOOR PLANS AND
- 3. ALL WINDOW AND DOORS TO BE INSTALLED AS PER MANUFACTURES SPECIFICATIONS.
- 4. ALL ARCHED WINDOWS TO BE ARCHED AS PER ELEVATIONS. COORDINATE WITH FRAMING CONTRACTOR, AND WINDOW MANUFACTURER, AND ARCHITECT/ENGINEER.

SCHEDULES.

- 5. ALL GLASS IN DOORS, SIDELIGHT UNITS, OR WINDOWS WITHIN 5'-0" OF A BATHTUB, SHOWER ENCLOSURE OR SPA SHALL BE TEMPERED GLASS ACCORDING TO CURRENT INTERNATIONAL RESIDENTIAL CODE REQUIREMENTS. SEE FLOOR PLANS AND/OR WINDOW AND DOOR
- 6. ALL DOORS BETWEEN GARAGES AND RESIDENCES TO BE TWENTY MINUTE FIRE RATED ASSEMBLIES WITH SELF CLOSING HARDWARE, AS REQUIRED BY I.R.C.

GENERAL M.E.P PLANS

- 1. MECHANICAL AND PLUMBING SYSTEMS ARE DESIGN BUILD. IT IS RECOMMENDED THAT THE CONTRACTOR CONSULT A LICENSED ENGINEER DURING DESIGN OF THESE SYSTEMS.
- 2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ASSURE REQUIRED PLUMBING AND ELECTRICAL SERVICE TO ALL FIXTURES AS INDICATED ON PLANS AND AS REQUIRED BY BUILDING CODES AND OWNER
- ALL VENTS AND OTHER MECHANICAL OR PLUMBING ELEMENTS THAT PENETRATE ROOF ARE NOT TO BE VISIBLE FROM FRONT OF
- ALL LIGHTS, SWITCHES, OUTLETS, AND SMOKE DETECTORS IN ALL BEDROOMS TO BE ARC PROTECTED.
- PROVIDE ONE (2) SEISMIC STRAPS (MIN.) FOR EVERY WATER HEATER.



PROJECT NUMBER
24001

4252 W 2200 S SYRACUSE UT, 84075 TH DAVIS SEWER DISR

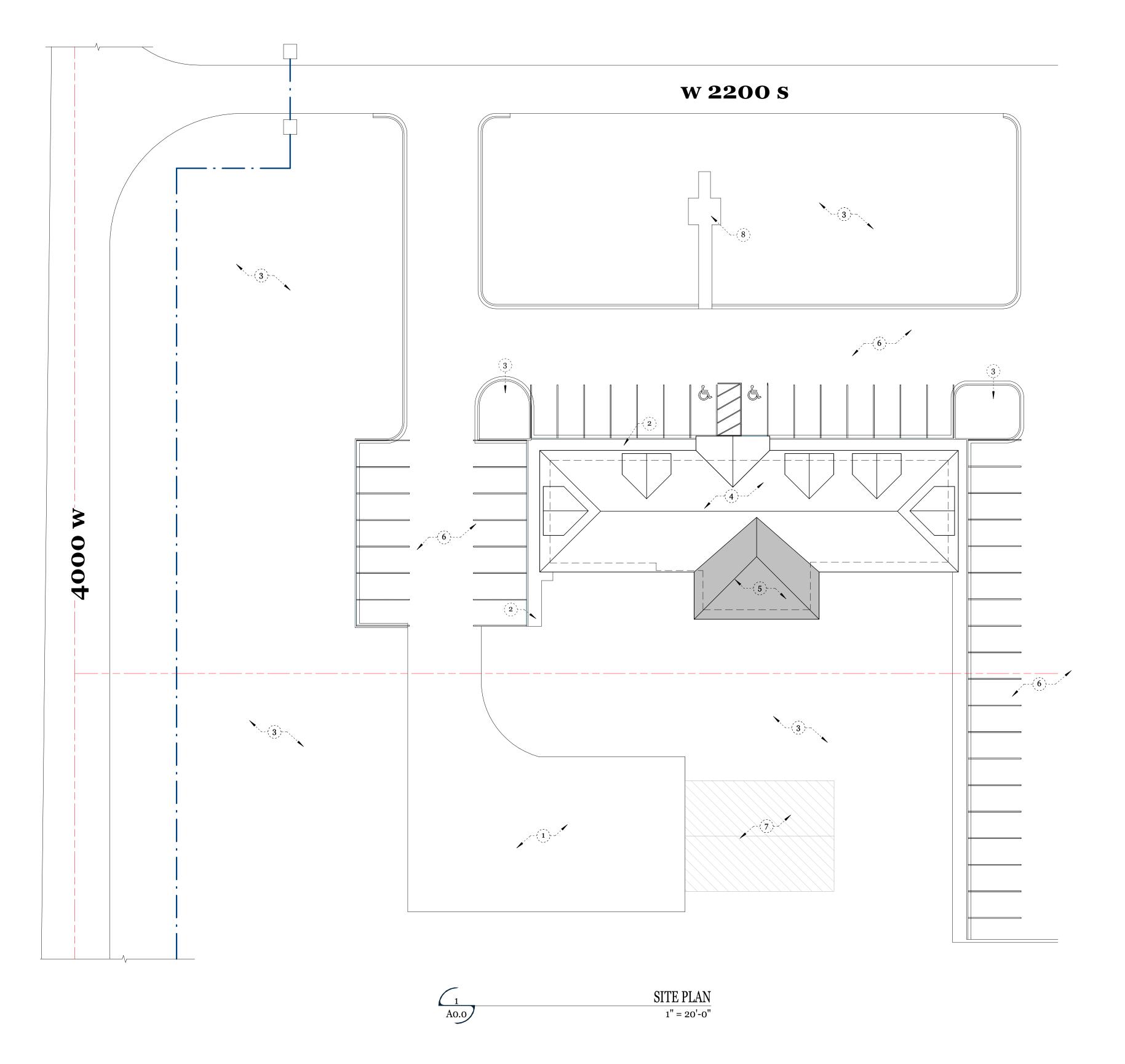
REVISIONS:
NO. DATE DESCRIPTION

ISSUE DATE: 3-25-2024

NOTE: CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS. NOTIFY THE DESIGNER IMMEDIATELY FOR ANY VARIATIONS OR DISCREPANCIES THAT MAY AFFECT STRUCTURAL ELEMENTS OR SIGNIFICANT ARCHITECTURAL ELEMENTS OF THE PROJECT.

T1.2

GENERAL NOTES



GENERAL NOTES - SITE PLAN

- A SEE GENERAL PROJECT NOTES, ROOF PLAN AND/OR FRAMING PLAN FOR ROOF PITCHES, ROOF BEARING AND STRUCTURAL REQUIREMENTS.
- B CONCRETE TO SLOPE AWAY FROM BUILDING AT 2% SLOPE MIN.
- C GROUND AROUND ENTIRE BUILDING TO SLOPE AWAY FROM BUILDING AT 5% MIN. SLOPE FOR A DISTANCE OF 10'-0" FROM BUILDING.
- D ALL EXTERIOR LIGHTING TO REMAIN THE SAME
- E ALL PROPOSED FINISHES TO MATCH EXISTING CONDITIONS
- F ALL WATER LATERALS TO REMAIN THE SAME
- G ALL ROOF DRAINAGE SHALL BE DETAINED ON SITE OR ROUTED THROUGH ON-SITE DRAINAGE FACILITIES.
- H PROPOSED ROOF TO MATCH EXISTING FINISHES
- I ALL FINISH GRADE TO MATCH EXISTING.

7 EXISTING CONCRETE DRIVE

8 SITE FEATURE TO REMAIN

J CONTRACTOR TO RESTORE SITE TO ORIGINAL CONDITIONS (I.E. SPRINKLERS, SOD, ETC.)

	REYED NOTES
1	EXISTING ASPHALT DRIVEWAY
2	EXISTING CONCRETE WALKWAY
3	EXISTING LANDSCAPED AREA
4	EXISTING ROOF
5	PROPOSED ROOF
6	EXISTING PARKING TO REMAIN



PROJECT NUMBER

24001

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4252 W 2200 S SYRACUSE UT, 84075 TH DAVIS SEWER DISRICT

REVISIONS:
NO. DATE DESCRIPTION

ISSUE DATE:

ISSUE DAT1 3-25-2024

SITE PLAN

Ao.c

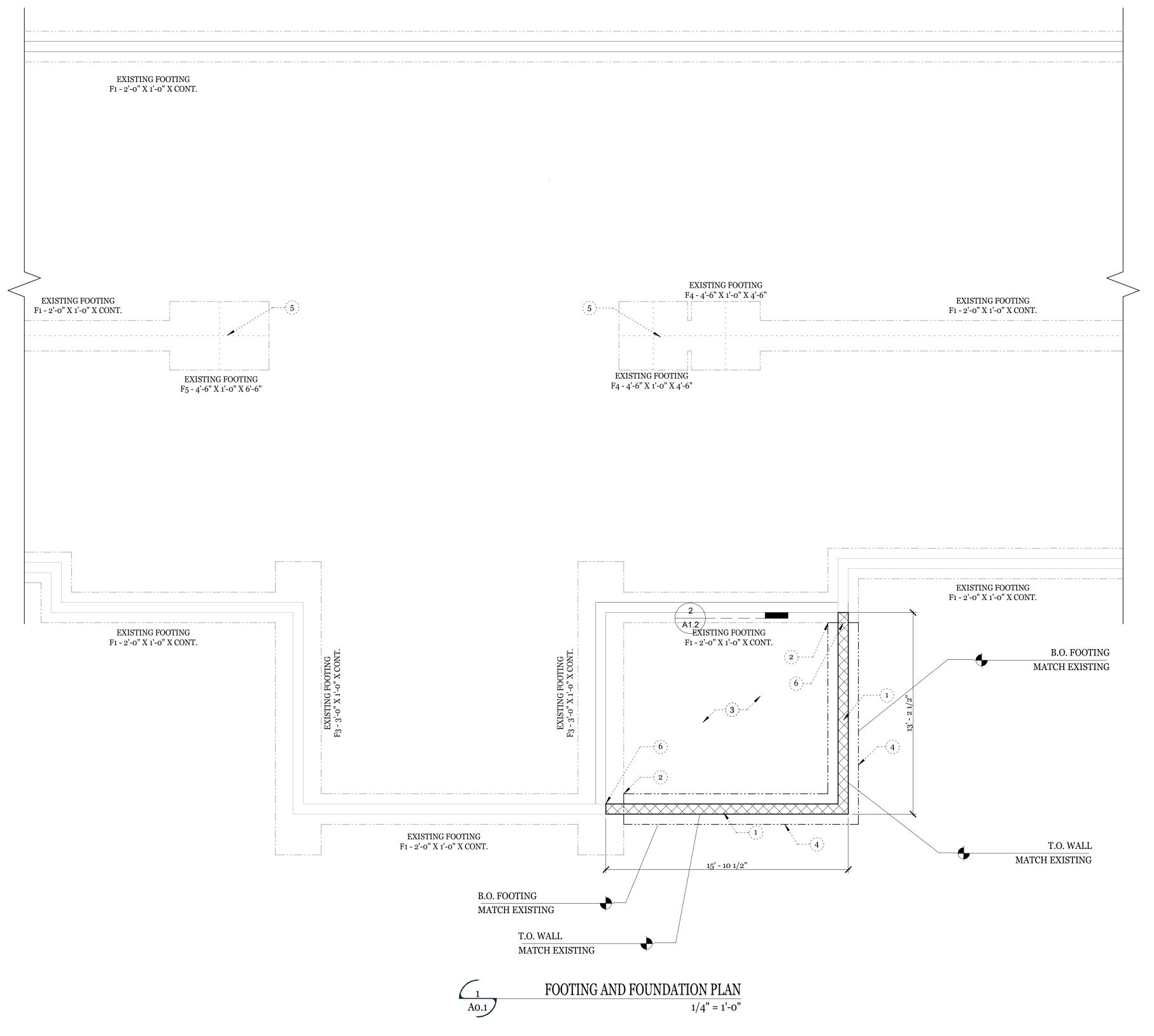
LINETYPE LEGEND

PROPERTY LINE

---SITE SETBACK/EASEMENT LINES

SITE FEATURES
ROOF FEATURES
EXISTING FENCE/GATE

NOTE: CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS. NOTIFY THE DESIGNER IMMEDIATELY FOR ANY VARIATIONS OR DISCREPANCIES THAT MAY AFFECT STRUCTURAL ELEMENTS OR SIGNIFICANT ARCHITECTURAL ELEMENTS OF THE PROJECT.



KEYED NOTES

- 1 CONTRACTOR TO MATCH EXISTING WALL CONSTRUCTION. VERIFY HEIGHT OF STEM WALLS AND EXTERIOR FRAMING.
- TIE IN NEW FOOTINGS INTO EXISTING STRUCTURE. SEE STRUCTURAL DRAWINGS AND DETAILS
- 3 4" SLAB ON GRADE AS PER STRUCTURAL PLANS
- 4 PROPOSED FOOTING AS PER STRUCTURAL
- 5 EXISTING FOOTING
- 6 TIE IN NEW FOUNDATION WALL INTO EXISTING STRUCTURE. SEE STRUCTURAL DRAWINGS AND DETAILS



PROJECT NUMBER

24001

4252 W 2200 S YRACUSE UT, 84075 H DAVIS SEWER DIS

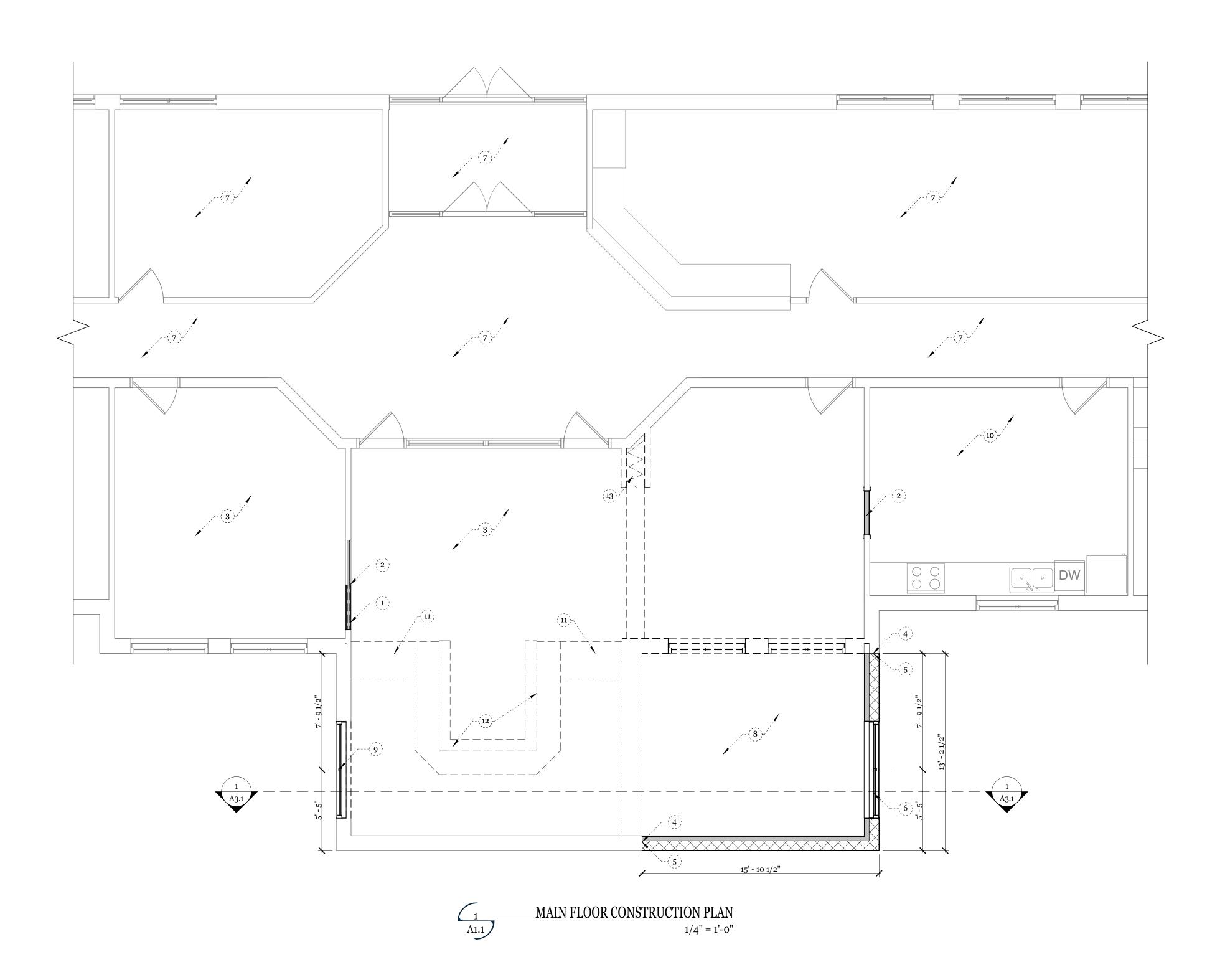
REVISIONS:
NO. DATE DESCRIPTION



FOOTING AND FOUNDATION PLAN

A0.1

NOTE: CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS. NOTIFY THE DESIGNER IMMEDIATELY FOR ANY VARIATIONS OR DISCREPANCIES THAT MAY AFFECT STRUCTURAL ELEMENTS OR SIGNIFICANT ARCHITECTURAL ELEMENTS OF THE PROJECT.



GENERAL NOTES - PLAN

- A SEE GENERAL NOTES ON SHEET T1.2 FOR ADDITIONAL REQUIREMENTS.
- B DIMENSIONS TO DOORS AND WINDOWS ARE TO CENTER OF FRAMED OPENING UNLESS NOTED OTHERWISE.
- C SEE STRUCTURAL DRAWINGS AND CALCULATIONS FOR ALL STRUCTURAL REQUIREMENTS, INCLUDING FOUNDATION WALL SPECIFICATIONS, AND SHEARWALL AND HOLDDOWN REQUIREMENTS.
- D CONTRACTOR TO MATCH EXISTING CONDITIONS AS MUCH AS POSSIBLE
- E COORDINATE ALL WINDOW HEAD HEIGHTS AND SIZES WITH ELEVATIONS AND WINDOW SCHEDULE.
- F ALL FINISHES TO BE SELECTED BY OWNER. CONTRACTOR TO MATCH EXISTING CONDITIONS

KEYED NOTES

- 1 CONTRACTOR TO REMOVE EXISTING DOOR.
- 2 CONTRACTOR TO FRAME CLOSE AND FINISH WALL TO MATCH EXISTING
- 3 CONTRACTOR TO REMOVE CARPET WALL PAPER AND BASE BOARDS IN THIS
- 4 CONTRACTOR TO VERIFY CONSTRUCTION OF EXISTING WALL AND MATCH CONSTRUCTION METHODS ON PROPOSED WALL
- 5 NEW EXTERIOR WALL TO ALIGN WITH EXISTING WALL
- 6 CONTRACTOR TO INSTALL NEW WINDOW, SEE STRUCTURAL REQUIREMENTS
- 7 ALL EXISTING ELEMENTS TO REMAIN THE SAME
- 8 SLAB ON GRADE. MATCH EXISTING CONDITIONS. TIE INTO EXISTING AS PER STRUCTURAL PLANS. CONTRACTOR TO MATCH EXISTING ELEVATION
- 9 CONTRACTOR TO CUT IN NEW WALL IN EXISTING WALL. SEE STRUCTURAL REQUIREMENTS
- 10 CONTRACTOR TO REMOVE WALL PAPER AND BASE BOARDS IN THIS ROOM. (FLOORING TO REMAIN)
- 11 CONTRACTOR TO REMOVE ELEVATED SLAB
- 12 CONTRACTOR TO REMOVE BUILT IN CABINETS
- 13 REMOVE EXISTING ACCORDIAN DOOR



PROJECT NUMBER

24001

SEWER DISRICT

REVISIONS: NO. DATE DESCRIPTION

ISSUE DATE: 3-25-2024

> MAIN FLOOR CONSTRUCTION PLAN

> > A1.1

WALL TYPE SCHEDULE

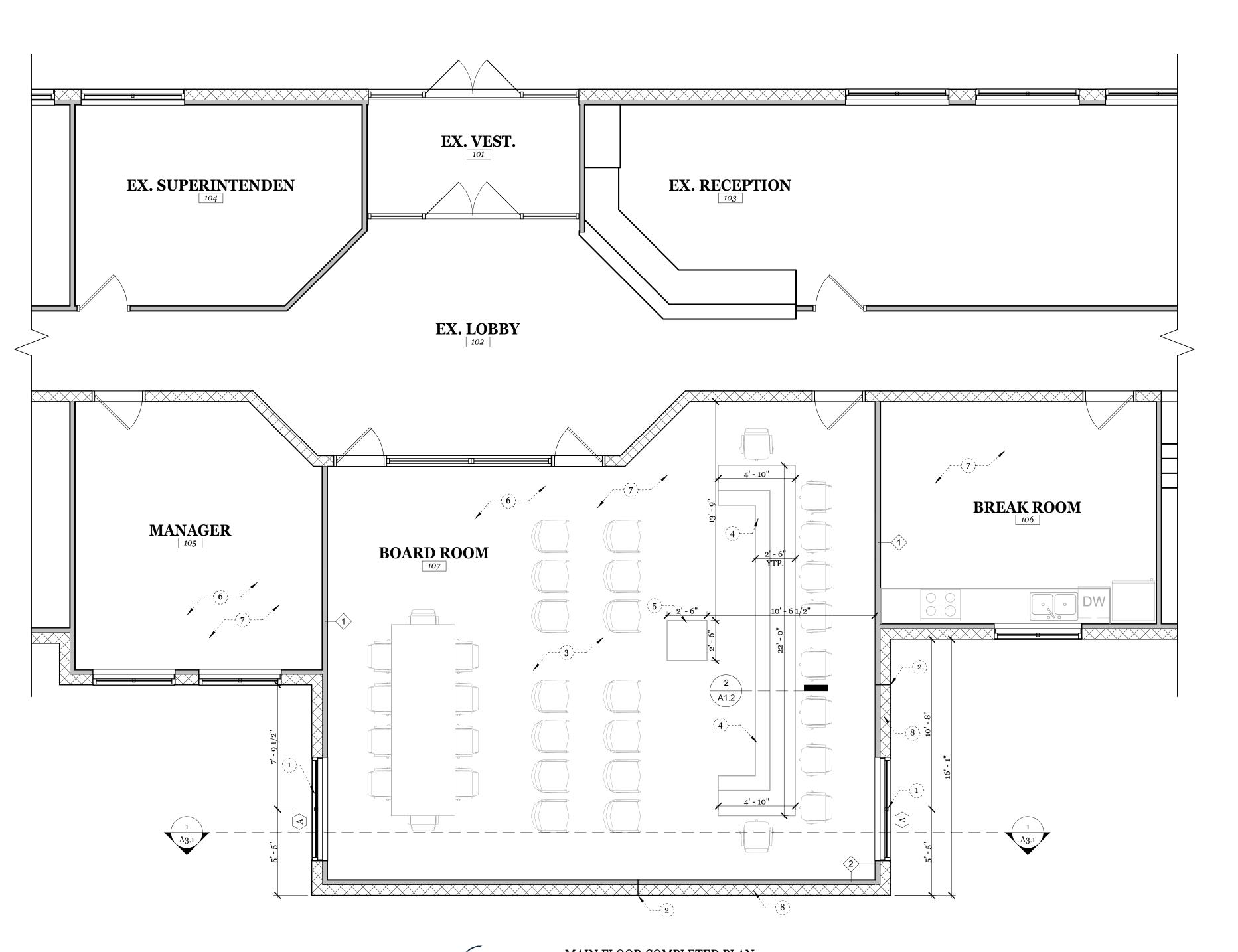
EXISTING WALL TO REMAIN

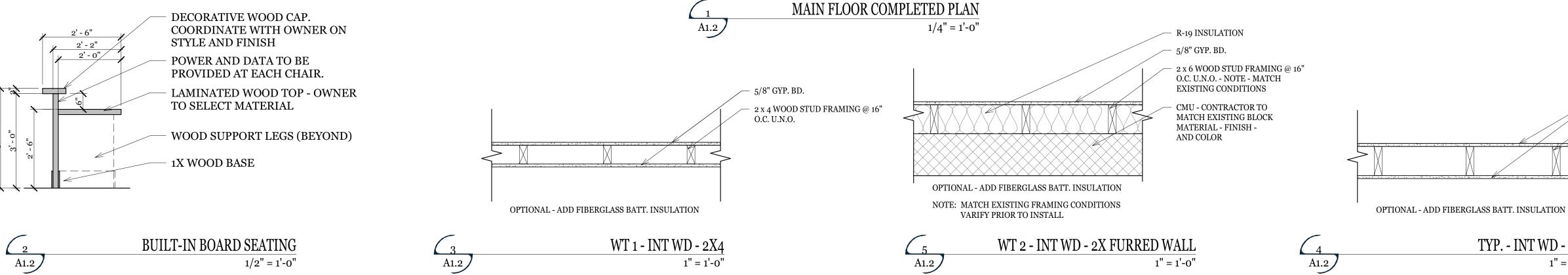
NEW WALL TO BE CONSTRUCTED

 $\Box = \Box = \Box$ EXISTING WALL TO BE REMOVED

NOTE: CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS. NOTIFY SIGNIFICANT ARCHITECTURAL ELEMENTS OF THE PROJECT.

	ROOM FINISH SCHEDULE										
RC	OOM			BASE		CEILING					
NUMBER	NAME	FLOOR	WALLS	ТҮРЕ	FINISH	FINISH	NOTES				
105	MANAGER	MATCH EXISTING	SHERWIN WILLIAMS PAINT	REPLACE - MATCH EXISTING	PAINT	REMAIN THE SAME	COLOR PAINT TO BE DECIDED BY OWNER				
106	BREAK ROOM	REMAIN THE SAME	SHERWIN WILLIAMS PAINT	REPLACE - MATCH EXISTING	PAINT	REMAIN THE SAME	COLOR PAINT TO BE DECIDED BY OWNER				
107	BOARD ROOM	MATCH EXISTING	SHERWIN WILLIAMS PAINT	REPLACE - MATCH EXISTING	PAINT	ACT CEILING - MATCH EXISTING STYLE	COLOR PAINT TO BE DECIDED BY OWNER				





GENERAL NOTES - PLAN

- A SEE GENERAL NOTES ON SHEET T1.2 FOR ADDITIONAL REQUIREMENTS.
- B DIMENSIONS TO DOORS AND WINDOWS ARE TO CENTER OF FRAMED OPENING UNLESS NOTED OTHERWISE.
- C SEE STRUCTURAL DRAWINGS AND CALCULATIONS FOR ALL STRUCTURAL REQUIREMENTS, INCLUDING FOUNDATION WALL SPECIFICATIONS, AND SHEARWALL AND HOLDDOWN REQUIREMENTS.
- D CONTRACTOR TO MATCH EXISTING CONDITIONS AS MUCH AS POSSIBLE
- E COORDINATE ALL WINDOW HEAD HEIGHTS AND SIZES WITH ELEVATIONS AND WINDOW SCHEDULE.
- F ALL FINISHES TO BE SELECTED BY OWNER. CONTRACTOR TO MATCH EXISTING

KEYED NOTES

- 1 CONTRACTOR TO INSTALL NEW WINDOW. SEE STRUCTURAL REQUIREMENTS
- 2 NEW EXTERIOR WALL TO ALIGN WITH EXISTING WALL
- CONTRACTOR TO REPLACE FLOOR. NEW FLOOR TO MATCH EXISTING STYLE AND FINISH. COODINATE WITH OWNER
- BUILT-IN DESK AS PER OWNER. CONTRACTOR TO MATCH EXISTING BUILD. COORDINATE WITH ELECTRICAL PLANS FOR POWER AND DATA LOCATIONS.
- CONTRACTOR TO COORDINATE WITH NORTH DAVIS SEWER DISTRICT ON MOBILE BUILT IN MICROPHONE STAND. CONTRACTOR TO INSTALL FLOOR OUTLET AT THIS LOCATION. COODINATE WITH ELECTRICAL DRAWINGS.
- 6 INSTALL NEW CARPET IN THIS ROOM
- 7 NEW PAINT AND BASE BOARD IN THIS ROOM. PAINT TO BE APPROVED BY NORTH DAVIS SEWER DISTRICT
- 8 CONTRACTOR TO INSTALL NEW MASONRY CMU WALL, MATCH EXISTING STRUCTURE. CONTRACTOR TO VERIFY COLOR - FINISH - AND STYLE OF CMU PRIOR TO INSTALL, SEE STRUCTURAL DRAWINGS FOR SPECIFICATIONS ON INSTALL

DUNCAN

FRAZIER

PROJECT NUMBER

24001

SEWER

REVISIONS: NO. DATE DESCRIPTION

> ISSUE DATE: 3-25-2024

MAIN FLOOR COMPLETED **PLAN**

NOTE: CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS. NOTIFY THE DESIGNER IMMEDIATELY FOR ANY VARIATIONS OR DISCREPANCIES THAT MAY AFFECT STRUCTURAL ELEMENTS OR SIGNIFICANT ARCHITECTURAL ELEMENTS OF THE PROJECT.

- 5/8" GYP. BD.

O.C. U.N.O.

TYP. - INT WD - 2X6

1" = 1'-0"

- 2 x 6 WOOD STUD FRAMING @ 16"



MAIN FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"

GENERAL NOTES - RCP

- A SEE GENERAL NOTES ON SHEET T1.2 FOR ADDITIONAL REQUIREMENTS.
- B ALL CEILING GRID TO BE CENTERED IN ROOM, U.N.O.
- C REFER TO DETAILS FOR REQUIRED ANCHORING AND BRACING OF SUSPENDED CEILING SYSTEM.
- D CONTRACTOR TO MATCH EXISTING CEILING STYLE AND FINISHES
- E ALL CEILING MOUNTED EQUIPMENT (LIGHT FIXTURES, EXIT SIGNS, MOTION SENSORS, FIRE SPRINKLER HEADS, ETC.) TO BE CENTERED IN ACOUSTICAL PANEI OR GYP. BD. CEILING.



PROJECT NUMBER **24001**

24001

4252 W 2200 S SYRACUSE UT, 84075 SEWER DISRICT

SYMBOL LEGEND

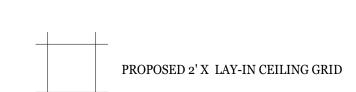
EXISTING RECESSED CAN LIGHT FIXTURE

EXISTING 2 X 4 LIGHT

PROPOSED 2 X 4 LED LIGHT

EXISTING EXIT SIGN

EXISTING EXIT SIGN



EXISTING 2' X LAY-IN CEILING GRID

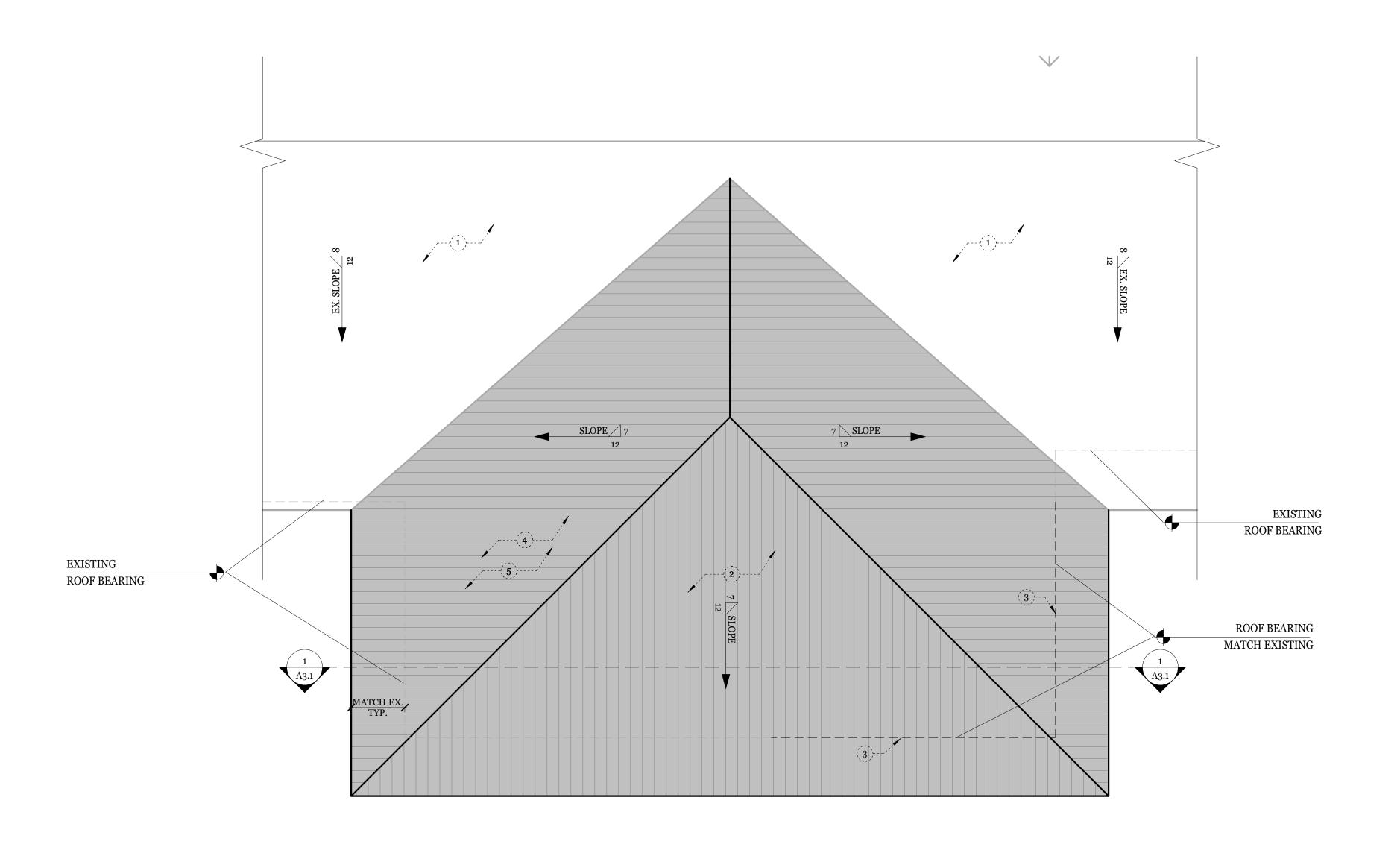


NOTE: CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS. NOTIFY THE DESIGNER IMMEDIATELY FOR ANY VARIATIONS OR DISCREPANCIES THAT MAY AFFECT STRUCTURAL ELEMENTS OR SIGNIFICANT ARCHITECTURAL ELEMENTS OF THE PROJECT.

REVISIONS:
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A1.3



ROOF PLAN
1/4" = 1'-0"

GENERAL NOTES - ROOF

- A SEE GENERAL NOTES ON SHEET T1.2 FOR ADDITIONAL REQUIREMENTS. COORDINATE ALL STRUCTURAL ELEMENTS WITH STRUCTURAL CALCULATIONS.
- B ROOF DRAINAGE TO BE TIED TO STORM DRAIN SYSTEM AS PER CIVIL.
- C COORDINATE WITH STRUCTURAL FOR ALL STRUCTURAL REQUIREMENTS.
- D OVERHANGS TO MATCH EXISTING

KEYED NOTES

- 2 PROPOSED ROOF

1 EXISTING ROOF

- 3 DASHED LINE HERE TO REPRESENT PERIMETER OF BUILDING.
- 4 PROPOSED ROOF TO MATCH SAME COLOR AND STYLE OF EXISTING ROOF.
- 5 ROOF TO BE STANDING SEAM METAL ROOF



PROJECT NUMBER

24001

4252 W 2200 S YRACUSE UT, 84075 H DAVIS SEWER DISRICT

REVISIONS:
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NOTE: CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS. NOTIFY THE DESIGNER IMMEDIATELY FOR ANY VARIATIONS OR DISCREPANCIES THAT MAY AFFECT STRUCTURAL ELEMENTS OR SIGNIFICANT ARCHITECTURAL ELEMENTS OF THE PROJECT.

CONSTRUCTION BID SET MAIN FLOOR FINISH ELEVATION 100' - 0' FINISH B.O. FOOTING B.O. FOOTING TO BE 30" BELOW GRADE MIN. WEST SIDE ELEVATION 1/4" = 1'-0" MAIN FLOOR FINISH ELEVATION FINISH GRADE B.O. FOOTING B.O. FOOTING TO BE 30" BELOW GRADE MIN. EAST SIDE ELEVATION 1/4" = 1'-0"

GENERAL NOTES - ELEVATION

- A SEE GENERAL NOTES ON SHEET T1.2 FOR ADDITIONAL REQUIREMENTS.
- B COORDINATE WINDOW HEIGHTS WITH WINDOW SCHEDULE.
- C PROVIDE RAIN GUTTERS AND DOWN SPOUTS AS REQUIRED.
- D COORDINATE ALL BEARING ELEVATIONS WITH ROOF PLAN. SEE STRUCTURAL DRAWINGS AND CALCULATIONS FOR ALL FRAMING REQUIREMENTS. CONTRACTOR TO MATCH EXISTING.
- E OWNER TO SELECT BRICK FOR BRICK VENEER. INSTALL AS PER ELEVATIONS, ANI AS PER I.B.C. SEE GENERAL MASONRY NOTES.
- F OWNER TO SELECT STUCCO COLORS AND TEXTURE. MATCH EX. INSTALL AS PER.
- G SEE ROOF PLAN FOR ALL ROOF SLOPES.
- H ALL METAL ROOFING TO BE INSTALLED AS PER MANUFACTURER. ROOF TO MATCH EXISTING COLOR AND STYLE.
- M NEW FLOOR HEIGHT TO MATCH HEIGHT OF EXISTING FLOOR.

KEYED NOTES

- METAL STANDING SEAM ROOF. CONTRACTOR TO INSTALL AS PER MANUFACTURES SPECIFICATION. CONTRACTOR TO VERIFY THAT PROPOSED ROOF TO MATCH EXISTING STYLE AND COLOR OF ROOF. MATCH EXISTING CONDITIONS.
- 2 FASCIA BOARD
- 3 PROPOSED ROOF
- 4 CMU MASONRY WALL. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND MATCH EXISTING BUILDING. COLOR STYLE AND FINISH TO MATCH EXISTING CONDITIONS. INSTALL AS PER SPECIFICATIONS.
- 5 WINDOW TRIM
- 6 EXISTING ROOF



PROJECT NUMBER

24001

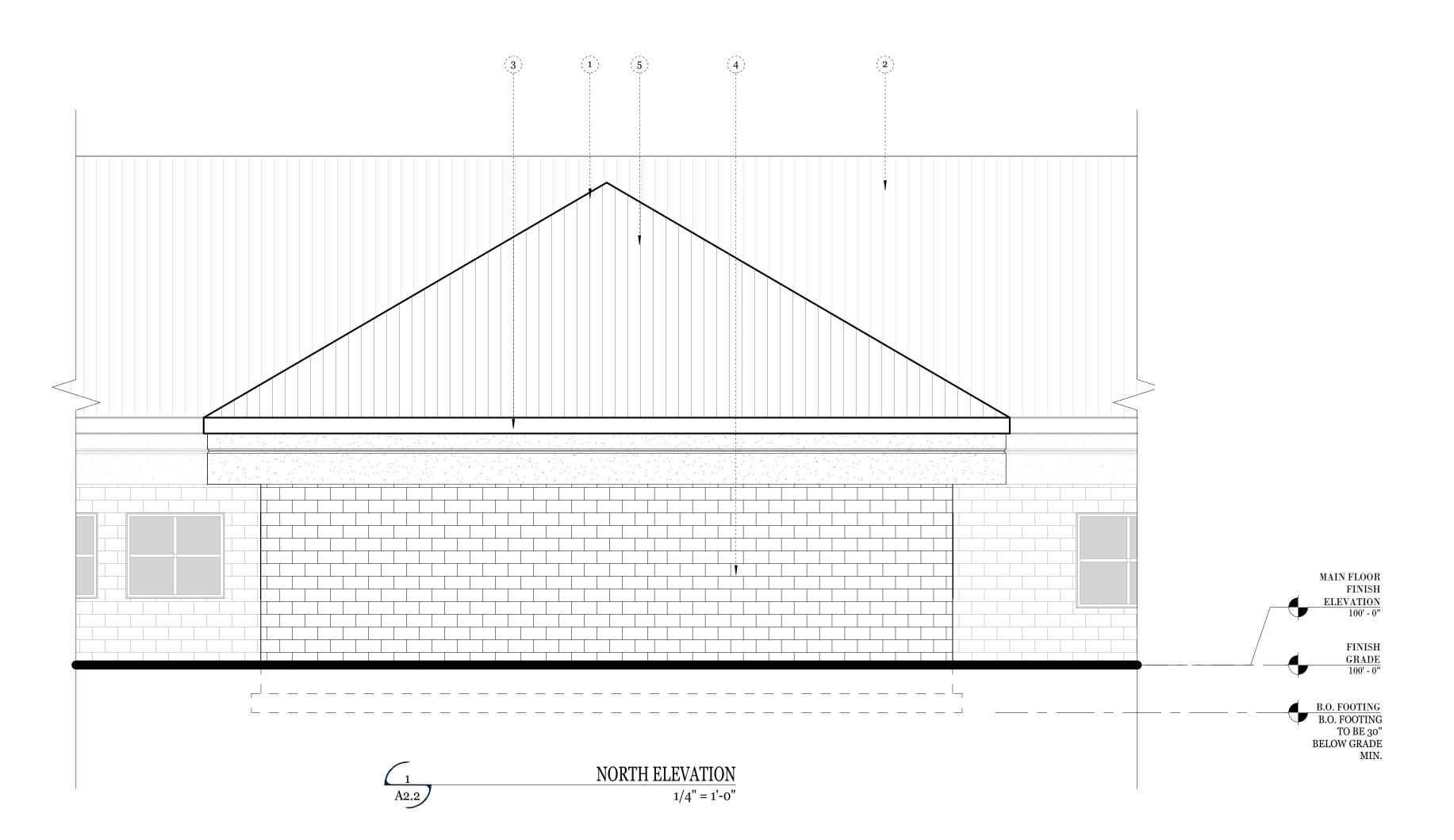
4252 W 2200 S SYRACUSE UT, 84075 RTH DAVIS SEWER DISRICT

REVISIONS:
NO. DATE DESCRIPTION



NOTE: CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS. NOTIFY THE DESIGNER IMMEDIATELY FOR ANY VARIATIONS OR DISCREPANCIES THAT MAY AFFECT STRUCTURAL ELEMENTS OR SIGNIFICANT ARCHITECTURAL ELEMENTS OF THE PROJECT.

A2.1



GENERAL NOTES - ELEVATION

- A SEE GENERAL NOTES ON SHEET T1.2 FOR ADDITIONAL REQUIREMENTS.
- B COORDINATE WINDOW HEIGHTS WITH WINDOW SCHEDULE.
- C PROVIDE RAIN GUTTERS AND DOWN SPOUTS AS REQUIRED.
- D COORDINATE ALL BEARING ELEVATIONS WITH ROOF PLAN. SEE STRUCTURAL DRAWINGS AND CALCULATIONS FOR ALL FRAMING REQUIREMENTS. CONTRACTOR TO MATCH EXISTING.
- E OWNER TO SELECT BRICK FOR BRICK VENEER. INSTALL AS PER ELEVATIONS, AN AS PER I.B.C. SEE GENERAL MASONRY NOTES.
- F OWNER TO SELECT STUCCO COLORS AND TEXTURE. MATCH EX. INSTALL AS PER.
- G SEE ROOF PLAN FOR ALL ROOF SLOPES.
- H ALL METAL ROOFING TO BE INSTALLED AS PER MANUFACTURER. ROOF TO MATCH EXISTING COLOR AND STYLE.
- M NEW FLOOR HEIGHT TO MATCH HEIGHT OF EXISTING FLOOR.

KEYED NOTES

- METAL STANDING SEAM ROOF. CONTRACTOR TO INSTALL AS PER MANUFACTURES SPECIFICATION. CONTRACTOR TO VERIFY THAT PROPOSED ROOF TO MATCH EXISTING STYLE AND COLOR OF ROOF. MATCH EXISTING CONDITIONS.
- 2 EXISTING ROOF
- 3 FASCIA BOARD
- 4 CMU MASONRY WALL. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND MATCH EXISTING BUILDING. COLOR STYLE AND FINISH TO MATCH EXISTING CONDITIONS. INSTALL AS PER SPECIFICATIONS.
- 5 PROPOSED ROOF



PROJECT NUMBER

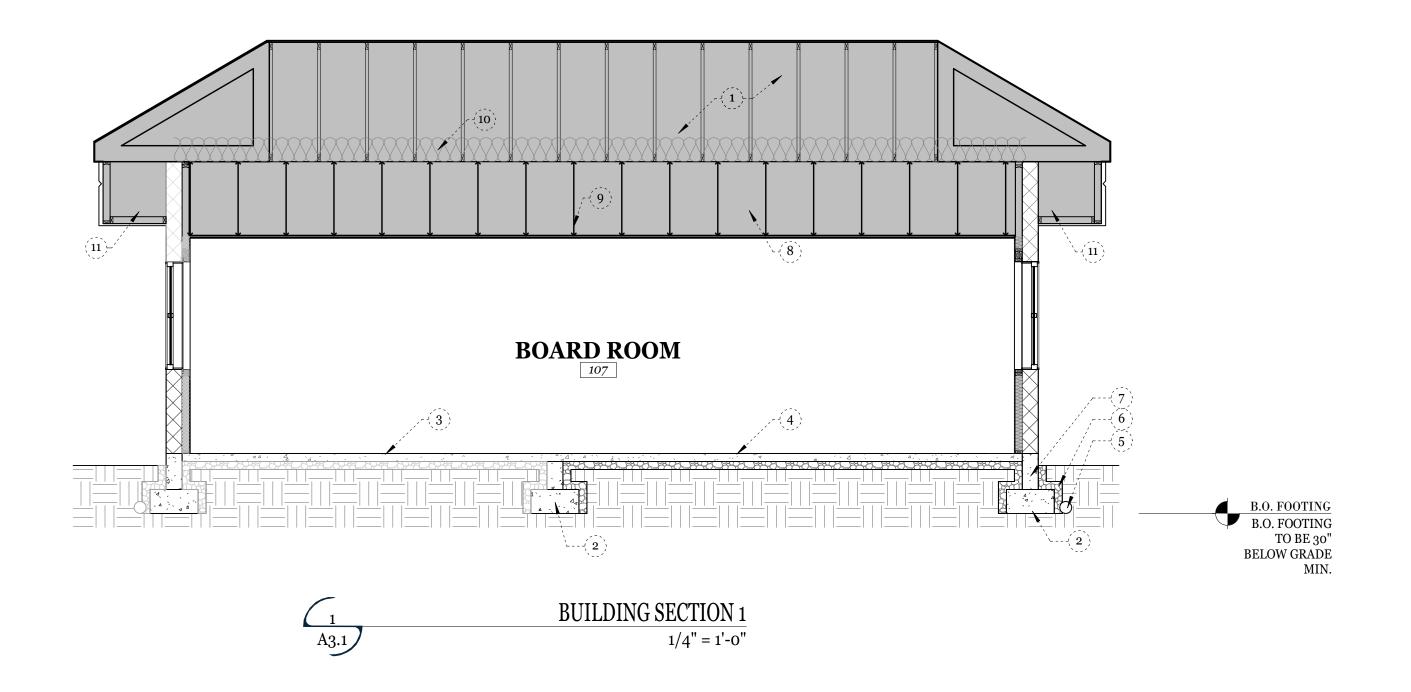
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4252 W 2200 S SYRACUSE UT, 84075 XTH DAVIS SEWER DISRICT

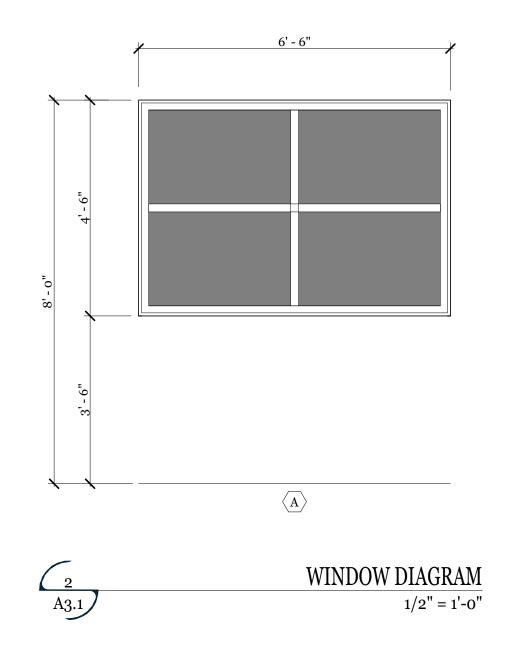
REVISIONS:
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				WIN	DOW SCHE	DULE
TYPE	MARK	TYPE	MATERIAL	FINISH	HEAD HEIGHT	REMARKS
6'-6" x 4'-6"	A	FIXED	METAL	AS PER MANUFACTURE	8' - 0"	WINDOW TO BE SELECTED BY NORTH DAVIS SEWER DISTRICT.



GENERAL NOTES - SECTIONS

- A SEE GENERAL NOTES ON SHEET T1.2 FOR ADDITIONAL REQUIREMENTS.
- B REVIEW ALL STRUCTURAL PLANS AND SPECIFICATIONS AS WELL AS STRUCTURAL CALCULATIONS FOR ALL STRUCTURAL REQUIREMENTS.
- C REFER TO ELEVATION DRAWINGS FOR ALL EXTERIOR FINISHES.
- D ALL WINDOWS AND DOORS TO BE AS INDICATED IN FLOOR PLANS ELEVATIONS AND WINDOW/DOOR SCHEDULES.

KEYED NOTES

- 1 ROOF FRAMING AS PER STRUCTURAL.
- 2 CONCRETE FOOTINGS AS PER STRUCTURAL PLANS
- 3 EXISTING FLOOR FRAMING TO REMAIN
- 4 4" SLAB ON GRADE AS PER STRUCTURAL PLANS
- 5 PERIMETER DRAIN. DRAINS SHALL BE PROVIDED AROUND ALL CONCRETE FOUNDATIONS.
- 6 4" GRANULAR FILL.
- 7 CONCRETE FOUNDATION WALL AS PER STRUCTURAL PLANS
- 8 DROPPED SUSPENDED CEILING. CONTRACTOR TO MATCH EXISTING CONDITIONS
- 9 SUSPENDED CEILING BRACING. INSTALL AS PER MANUFACTURES SPECIFICATIONS
- 10 ATTIC INSULATION
- 11 DECORATIVE SOFFIT. CONTRACTOR TO MATCH EXISTING FINISH AND STYLE



PROJECT NUMBER

24001

252 W 2200 S \CUSE UT, 84075

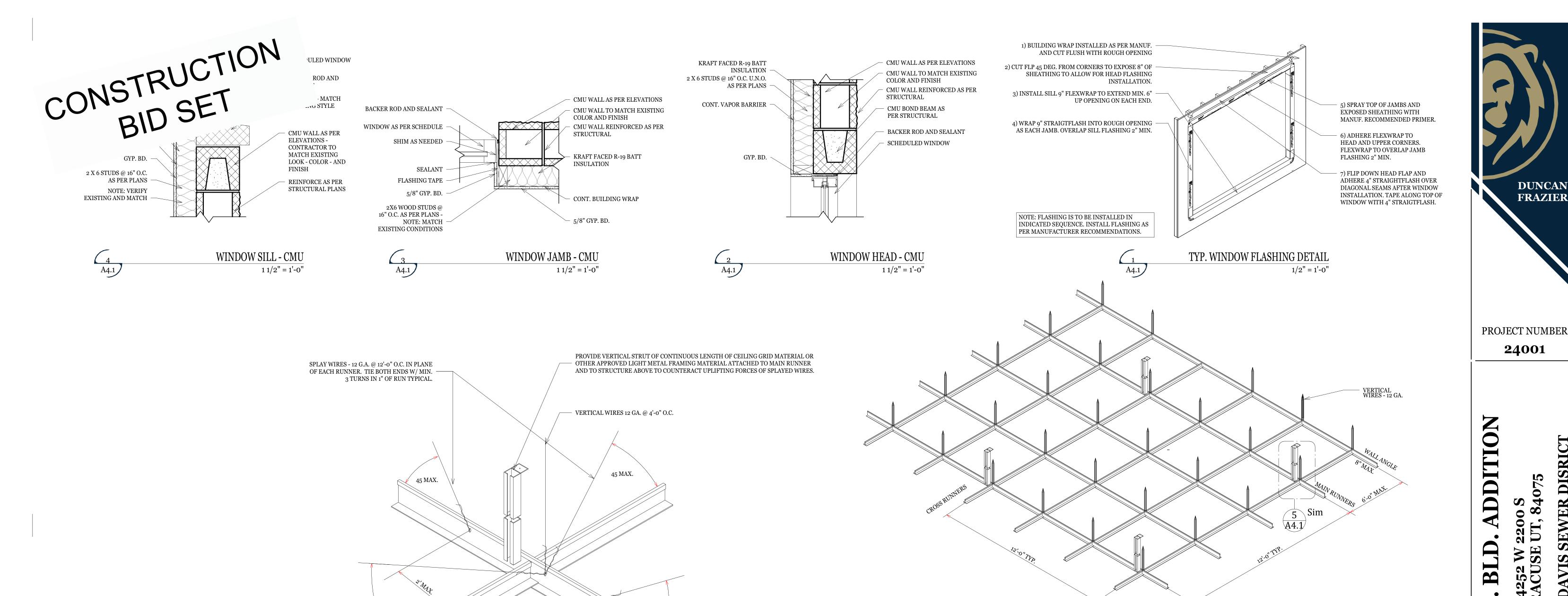
SEWER DISRICT

REVISIONS:

NO. DATE DESCRIPTION



NOTE: CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS. NOTIFY THE DESIGNER IMMEDIATELY FOR ANY VARIATIONS OR DISCREPANCIES THAT MAY AFFECT STRUCTURAL ELEMENTS OR SIGNIFICANT ARCHITECTURAL ELEMENTS OF THE PROJECT.



ALL CEILING MOUNTED LIGHT FIXTURES SHALL BE ATTACHED TO SUSPENDED CEILING GRID, IN ADDITION 12 GA. HANGER WIRES SHALL BE ATTACHED TO THE GRID WITHIN 3" OF EACH CORNER OF THE

FIXTURE. TWO ADDITIONAL WIRES SHALL BE CONNECTED TO THE

LIGHT HOUSING AND TO THE

WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT, NOR SHALL THEY BE CLOSER THAN 5" FROM ANY UN-BRACED HORIZONTAL PIPING OR DUCTWORK. A TRAPEZE OR SIMILAR DEVICE SHALL BE USED WHERE OBSTRUCTIONS OCCUR.

45 MAX.

STRUCTURE ABOVE (THESE WIRES MAY BE SLACK).

SEISMIC BRACING DETAIL 1/2" = 1'-0" CEILING AREAS OF 144 SO. FT. OR LESS SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE SHALL NOT REQUIRE THE DIAGONAL BRACING WIRES. EACH VERTICAL WIRE SHALL BE ATTACHED EACH END WITH MIN.

CEILING GRID SHALL BE INSTALLED LEVEL TO WITHIN 1/8" IN 12'.

LOCAL KINKS OR BENDS SHALL NOT BE MADE IN HANGER WIRES AS A MEANS OF LEVELING MAIN RUNNERS.

ALL WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT. SHALL NOT REQUIRE THE DIAGONAL BRACING WIRES.

FOR CEILING AREAS EXCEEDING 1,000 S.F. HORIZONTAL RESTRAINT OF THE CEILING TO THE STRUCTURE SHALL BE PROVIDED.

CABLE TRAYS AND ELECTRICAL CONDUITS SHALL BE INDEPENDENTLY SUPPORTED AND BRACED INDEPENDENTLY OF THE CEILING. SUSPENDED CEILING SHALL BE SUBJECT TO THE SPECIAL

INSPECTION REQUIREMENTS OF SECTION 1704. CEILING AREAS OF 1000 SQ. FT. OR LESS SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE EACH VERTICAL WIRE SHALL BE ATTACHED EACH END WITH MIN.

SUSPENDED CEILING BRACING

CEILING GRID SHALL BE INSTALLED LEVEL TO WITHIN 1/8" IN 12'.

LOCAL KINKS OR BENDS SHALL NOT BE MADE IN HANGER WIRES AS A MEANS OF LEVELING MAIN RUNNERS. ALL WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT.

A HEAVY DUTY T-BAR SYSTEM SHALL BE USED. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL NOT BE LESS THAN 2 INCHES. IN EACH ORTHOGONAL HORIZONTAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE CLOSURE ANGLE. THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE A 0.75 INCH CLEARANCE FROM THE WALL AND SHALL REST UPON AND BE FREE TO SLIDE ON THE CLOSURE ANGLE.

REVISIONS:

NO. DATE DESCRIPTION

DUNCAN

FRAZIER

24001

SEWER



NOTE: CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS. NOTIFY THE DESIGNER IMMEDIATELY FOR ANY VARIATIONS OR DISCREPANCIES THAT MAY AFFECT STRUCTURAL ELEMENTS OR SIGNIFICANT ARCHITECTURAL ELEMENTS OF THE PROJECT.

CONSTRUCTION CONSTRUCTION REFERRED REFE

...AUL REFERRED TO IN THE NOTES. ... MLET ALL NOTE REQUIREMENTS AND SHALL . ASSOCIATED COSTS IN HIS/HER BID.

- J.L. REFERS TO COMPASS ENGINEERING, LLC THE GENERAL CONTRACTOR, PROJECT MANAGER, OR SUPERINTENDENT SHALL COORDINATE THE WORK PERFORMED BY ALL TRADES, AND IS ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL NOTE AND CODE REQUIREMENTS.
- THE CONTRACTOR SHALL PERFORM HIS/HER TRADE AND DUTIES IN A MANNER CONFORMING TO THE PROCEDURES AND REQUIREMENTS AS STATED IN THE 2021 INTERNATIONAL BUILDING CODE (IBC), AND/OR THE LATEST CODE AND ORDINANCES ADOPTED BY THE LOCAL BUILDING
- CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE JOB SITE.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND / OR ARCHITECT OF ANY DISCREPANCIES, OMISSIONS OR CONFLICTS BÉTWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS, SPECIFICATIONS, AND OR THE NOTES BEFORE PROCEEDING WITH THE FABRICATION OR CONSTRUCTION OF ANY EFFECTED ELEMENTS. ANY WORK DONE BY THE CONTRACTOR BEFORE RECEIVING THE ENGINEERS WRITTEN APPROVAL WILL BE AT THE CONTRACTOR'S RISK/EXPENSE. IN CASE OF CONFLICT. THE MOST STRINGENT REQUIREMENTS SHALL GOVERN AND BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- FAILURE TO FOLLOW PLANS AND CONSTRUCTION DOCUMENTS CONSTITUTES CHANGE IN PROJECT SCOPE. THE ENGINEER RESERVES THE RIGHT TO REQUEST REPLACEMENT OF ANY PORTION OF THE STRUCTURE DEVIATING FROM THE PLANS WHERE WRITTEN APPROVAL HAS NOT BEEN OBTAINED. DEVIATION FROM CONSTRUCTION DOCUMENTS WITHOUT WRITTEN APPROVAL RELIEVES ENGINEER OF ALL LIABILITY, AND CONTRACTOR ASSUMES FULL LIABILITY.
- 10. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS, SLOPES AND ELEVATIONS, ETC... (BOTH ON PLANS AND AT THE JOB SITE PRIOR TO DOING WORK), AND SHALL COORDINATE THESE WITH THE ARCHITECT AND ALL TRADES. CONSTRUCTION DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR, PROVIDE AND INSTALLING ALL TEMPORARY SHORING AND BRACING AS NECESSARY. SHORING AND BEAMS SHALL SUPPORT ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED (i.e. WIND, CONSTRUCTION LOADING, ETC.). SHORING SHALL REMAIN IN PLACE AS LONG AS SAFETY REQUIRES AND/OR UNTIL ALL THE STRUCTURAL ELEMENTS ARE COMPLETED.
- . DURING AND AFTER CONSTRUCTION, THE LOADS IMPOSED ON THE STRUCTURE BY THE CONTRACTOR AND OWNER SHALL BE WITHIN TH LIMITS OF THE OCCUPANCY DESIGN LOADS. SEE STRUCTURAL PLANS AND CALCULATIONS FOR THE OCCUPANCY DESIGN LOADINGS AND
- 13. VISITS TO THE JOB SITE BY REPRESENTATIVES OF COMPASS ENGINEERING DO NOT CONSTITUTE APPROVAL OR SPECIAL INSPECTION OF THE WORK PERFORMED BY THE CONTRACTOR OR HIS SUBCONTRACTORS

14. STRUCTURAL SHOP DRAWINGS SHALL BE APPROVED BY THE ENGINEER

- AND ARCHITECT OF RECORD PRIOR TO FABRICATION AND ERECTION. SHOP DRAWINGS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT.
- 15. SEE STRUCTURAL PLANS AND PROJECT SPECIFICATIONS FOR ADDITIONAL STRUCTURAL NOTES AND REQUIREMENTS.
- 16. ALL COMPONENTS AND SYSTEMS NOT SPECIFICALLY ENGINEERED BY THE ENGINEER OF RECORD SHALL BE "DESIGN-BUILD" BY THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SHOP DRAWINGS 10. OR AS-BUILT DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER IF REQUIRED BY THE CITY. IF PRE-ENGINEERED SYSTEM IMPACTS THE ORIGINAL DESIGN FOR INTENT OF THE PROJECT IN ANY WAY CONTRACTOR SHALL COORDINATE WITH ENGINEER OF RECORD PRIOR TO 11
- INSTALLATION. 17. PRE-ENGINEERED SYSTEMS SUCH AS JOISTS, TRUSSES, GREENHOUSES, POOLS, DECKS, ETC. SHALL BE ENGINEERED AND DETAILED BY OTHERS UNLESS SPECIFICALLY CONTRACTED OTHERWISE. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR, NOR HAS ANY LIABILITY REGARDING 14. PRE-ENGINEERED SYSTEMS. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AS REQUIRED. JOIST AND TRUSS, ETC.. PROVIDED BY THE ENGINEER ARE FOR COORDINATION AND ESTIMATING ONLY. THE JOIST AND TRUSS MANUFACTURER (OR OTHER MANUFACTURERS) ARE RESPONSIBLE FOR THE ACTUAL DESIGN BASED ON CODE PRESCRIBED,
- AND ACTUAL LOADS AND FORCES 18. THE ENGINEER OF RECORD IS ONLY RESPONSIBLE FOR ITEMS SPECIFICALLY ENGINEERED BY HIM OR UNDER HIS DIRECT SUPERVISION. 2. CONTRACTOR SHALL COORDINATE WITH MECHANICAL, ELECTRICAL, AND THE ENGINEER OF RECORD IS NOT LIABLE FOR ANY NON-STRUCTURAL ISSUES UNLESS SPECIFICALLY CONTRACTED OTHERWISE. C.E. IS NOT RESPONSIBLE FOR THE COST OF CONSTRUCTION NOR PROJECT BUDGETS, 3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PLACEMENT OF ALL
- 19. ANY STRUCTURAL CHANGES REQUIRED BY THE CONTRACTOR, OWNER, ARCHITECT, ETC.. SHALL BE INVOICED BY C.E. AND TREATED AS
- 20. C.E. SHALL BE COMPENSATED FOR ADDITIONAL ENGINEERING REQUIRED 5. DO NOT REMOVE FORMS AND SHORING UNTIL STRUCTURAL MEMBERS AS A RESULT OF ANY THIRD PARTY OR CITY REVIEW. PROVIDED ORIGINAL
- DESIGN IS IN ACCORDANCE WITH THE CURRENT BUILDING CODE. 21. OMISSIONS IDENTIFIED DURING PLAN REVIEW OR CONSTRUCTION SHALL BE ENGINEERED BY THE ENGINEER OF RECORD AT NO ADDITIONAL COST TO THE OWNER. THE OWNER SHALL BE RESPONSIBLE FOR PAYMENT OF OMISSIONS THROUGH AN APPROVED CHANGE ORDER. THE CONTRACTOR
- IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION. 22. CHECKING OF SUBMITTAL ITEMS BY C.E. IS ONLY FOR GENERAL CONFORMATION WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT
- DOCUMENTS. 23. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS 5 AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR: DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE: FABRICATION PROCESS AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF HIS WORK.

TIONAL BUILDING CODE (IBC)

__SIGN_CRITERIA <u>SNOW LOADING:</u> SLOPED-ROOF SNOW LOAD, PS SNOW EXPOSURE FACTOR, CE SNOW LOAD IMPORTANCE FACTOR,

BASIC WIND SPEED (3-SEC. GUST, WIND IMPORTANCE FACTOR WIND =115MPH =1.0 EXPOSURE CATEGORY INTERNAL PRESSURE COEFFICIENT = +/-0.18

=0.8G, 0.4G =ŘEINFORCED MASONRY WALLS 8. BASIC SEISMIC-FORCE-RESISTING SYSTEM

EARTHWORK:

DESIGN CRITERIA SOILS REPORT: SOIL BEARING PRESSURE:

TC. EXISTING FOOTINGS, FOUNDATIONS, SLABS, STRUCTURES AS REQUIRED. TRIP THE BUILDING AREA FROM ALL VEGETATION,
CONTRACTOR SHALL EXCAVATE ANY REMAINING
TILL SOILS TO EXPOSE COMPETENT NATURAL SOILS.
CHECK FOR SOFT SPOTS OR OTHER UNSUITABLE LOOSE NATURAL OR FILL SOILS TO EXPOSE COMPETENT NATURAL SOILS.
CONTRACTOR SHALL CHECK FOR SOFT SPOTS OR OTHER UNSUITABLE
SOILS BY PROOF ROLLING THE ENTIRE BUILDING PAD AREA WITH NORMAL
COMPACTION EQUIPMENT. REMOVE UNSUITABLE MATERIALS AND REPLACE
WITH COMPACTED ENGINEERED STRUCTURAL FILL OR 2,000 PSI LEAN ILL). IF THE GROUND WATER IS HIGH, ECOMMENDED AND 2 FEET OF STRUCTURAL COMMENDED TO RAISE THE OVERALL SITE GF ENGINEERED OR STRUCTURAL FILL MATERIAL SHALL BE WELL-GRADED, GRANULAR, WITH A MAXIMUM SIZE LESS THAN 4 INCHES, AND NOT MORE THAN 18 PERCENT FINES PASSING A NO. 200 SIEVE. PLACE STRUCTURAL FILL IN MAXIMUM LIFTS OF 8 INCHES. COMPACT STRUCTURAL FILL TO 95 PERCENT OF THE MAXIMUM LABORATORY DENSITY AS DETERMINED BY ASTM D 1557, UNO. TEST ALL STRUCTURAL FILL. FILL MATERIAL AND PLACEMENT OF ALL FILL MATERIAL MUST MEET THE APPROVAL OF THE SOILS FINGINEER

SEE PLANS FOR THICKNESS OF ALL FLOOR SLABS. UNDERLAY ALL SLABS WITH AT LEAST A 4 INCH THICK LAYER OF FREE—DRAINING GRANULAR GRANULAR MATERIAL SHALL BE "PEA" GRAVEL OR ¾ - 1 INCH AN GAP-GRADED GRAVEL. THE PROJECT SPECIFICATIONS AND SOILS REPORT FOR FURTHER 9. EARTHWORK REQUIREMENTS. ANY UNFORESEEN CONDITIONS ENCOUNTERED DURING SITE PREPARATION SHALL BE BROUGHT TO THE ATTENTION OF THE SOILS ENGINEER.
THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE ALL SITE SOILS EXPANSIVE SOILS.

SOILS, COLLAPSIBLE SOILS, SOILS WITH A HIGH LIQUEFACTION HIGH WATER TABLE, STEEP SLOPES, ETC. ALL REQUIRE ENGINEERING. CONTRACTOR TO COORDINATE WITH PROJECT ENGINEER AND SOILS ENGINEER.

IF NO SOILS REPORT HAS BEEN PROVIDED THE SOILS DESIGN CRITERIA
HAS BEEN ASSUMED PER TABLE 1804.2 OF THE IBC. A BEARING
PRESSURE OF 1500 PSF HAS BEEN USED FOR DESIGN. THE CONTRACTOR 1.

AND OWNER ARE RESPONSIBLE TO HAVE ALL SITE CONDITIONS, SOILS,
FILLS, ETC... FIELD VERIFIED PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DE-WATERING AS REQUIRED OR CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY BRACED, TIEBACK, SLURRY WALLS OR SHEET PILING REQUIRED FOR EXCAVATIONS.
ALL EARTHWORK, MATERIALS AND PLACEMENT MUST MEET THE APPROVAL OF THE GEOTECHNICAL / SOILS ENGINEER.
BACKFILL AROUND FOUNDATION WALLS SHALL BE PERFORMED USING
GRANULAR MATERIAL. CARE SHALL BE TAKEN IN PLACING BACKFILL
MATERIALS SO AS NOT TO DAMAGE THE FOUNDATION. CONTRACTOR TO

. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE 2021 IBC, ACI 318,

AND LOCAL ORDINANCES. ARCHITECTURAL PRIOR TO PLACING CONCRETE. PROVIDE SLEEVES, BLOCK OUTS, ETC... AS REQUIRED. ANCHOR BOLTS, SEISMIC ANCHORS OR STRAPS, ETC... INSTALL PER

MANUFACTURER'S SPECIFICATIONS. 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, DETAILING, CARE, PLACEMENT AND REMOVAL OF ALL FORMWORK AND SHORES. ACQUIRE SUFFICIENT STRENGTH TO SUPPORT THEIR OWN WEIGHT PLUS

CONSTRUCTION LOADS.

CONCRETE AND REINFORCING MATERIAL

REQUIRED MIN. 28 DAY COMPRESSIVE STRENGTH OF CONCRETE

A. FOOTINGS AND FOUNDATIONS:

3000 PSI . INTERIOR SLABS ON GRADE: 3000 PSI U.N.O.

CONCRETE OVER STEEL DECK: SITE CONCRET PROVIDE NORMAL WEIGHT AGGREGATES PER ASTM C-33. U.N.O. PROVIDE TYPE I OR II CEMENT PER ASTM C-150 FOR ALL CONCRETE. MAXIMUM WATER TO CEMENT RATIO IS EQUAL TO 0.50 FOR ALL CONCRETE. 16.
MAXIMUM SLUMP OF CONCRETE IS EQUAL TO 4 INCHES PLUS OR MINUS 1 PROVIDE AIR ENTRAINING AS RECOMMENDED BY ACI 318 AND ASTM C-260. DO NOT ADD CALCIUM CHLORIDE TO CONCRETE MIX.

THE MAX. CHLORIDE ION CONTENT FOR CORROSION PROTECTION OF REINFORCEMENT IS 0.15% BY WEIGHT OF CEMENT.

SEE PROJECT SPECIFICATIONS FOR ADDITIONAL CONCRETE DESIGN

SHALL BE 12" THICK & PROPERLY FORMED. INTERIOR BE MONOLITHIC WITH SLAB. ALL EXTERIOR FOOTINGS SHALL BEAR BELOW FROST DEPTH (30 INCHES, FIELD VERIFY)
FOOTINGS SHALL BEAR ON UNDISTURBED NATURAL MATERIAL, OR ON PROPERLY PLACED ENGINEERED FILL, SEE EARTHWORK NOTES FOR ADDITIONAL REQUIREMENTS, AND SOILS REPORT.
CONTRACTOR SHALL STEP FOOTINGS & FOUNDATION AS REQUIRED.
NO FOOTING SHALL BE PLACED IN WATER OR ON FROZEN GROUND.

<u>TEEL SHALL BE GRADE 60 BARS PER ASTM A615.</u> FIELD BENT DOWELS MAY BE GRADE 40.

ALL DEFORMED BAR ANCHORS SHALL CONFORM TO ASTM A496.

ALL HEADED STUD ANCHORS SHALL CONFORM TO ASTM A108.

ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM 185. LAP ONE MESH

4. SEE ARCHITECTURAL FOR ACCESS HATCHES, DRAFT STOPS, ETC.

REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE ALL SPLICES SHALL OCCUR IN A COMPRESSION ED OTHERWISE. TERMINATE ALL REINFORCING BARS ND OR WITH SEPARATE CORNER BARS. LICES SHALL BE POSITIVE CONNECTING COUPLERS AND L APPLICABLE CODE REQUIREMENTS. ADJACENT MECHANICAL BE STAGGERED A MINIMUM OF 24 INCHES ALONG THE ARS. TENSILE CAPACITY OF MECHANICAL SPLICES SHALL BE MECHANICAL

UCTION AND CONTROL JOINTS. SPLICE STIRRUPS AND TIES. DO NOT WELD REINFORCING BARS. DO NOT SUBSTITUTE REINFORCING BARS FOR DEFORMED ANCHOR BARS OR HEADED ANCHOR STUDS. REINFORCEMENT SHALL HAVE THE FOLLOWING CLEAR COVER:

HORIZONTAL REINFORCEMENT SHALL BE CONTINUOUS THROUGH

CAST-IN-PLACE CONCRETE: CAST AGAINST/PERMANENTLY EXPOSED TO EARTH . FORMED CONCRETE EXPOSED TO EARTH/WEATHER:

#5 AND SMALLER BARS ii. Concrete not exposed earth/weather: SLABS, WALLS, JOISTS (#11 AND SMALLER BEAMS, COLUMNS, TIES, "STIRRUPS

BRACE WALLS AS REQUIRED UNTIL FLOOR SLABS AND/OR FLOOR FRAMING ARE IN PLACE, AND UNTIL WALLS HAVE PROPERLY CURED.
BACKFILL ADJACENT TO FOUNDATION WALLS OR IN LANDSCAPED AREAS SHALL BE PLACED IN 8 INCH MAXIMUM LOOSE LIFTS. FILL SHALL BE COMPACTED TO AT LEAST 90% AND HAVE THE MOISTURE CONTENT WITHIN 2% OF OPTIMUM MAXIMUM DENSITY (ASTM D 1557). HEAVY EQUIPMENT SHALL NOT BE USED TO BACKFILL WITHOUT PRIOR CONSENT OF THE

SEE ARCHITECTURAL DRAWINGS FOR DRAINAGE METHOD BEHIND FOUNDATION AND RETAINING WALLS. CONSTRUCTION JOINTS (COLD JOINTS) IN WALLS SHALL BE WATERPROOFED 4. PIPE COLUMNS: NOT SPLICE VERTICAL BARS IN RETAINING WALLS UNLESS SPECIFICALLY CONTRACTOR SHALL COORDINATE STEPS IN WALLS WITH THE ARCHITECT, AND SHALL VERIFY WITH COMPASS ENGINEERING. PROVIDE CORNER BARS AT INTERSECTING WALL CORNERS USING THE SAME BAR SIZE AND SPACING AS THE HORIZONTAL WALL REINFORCING.
PROVIDE VERTICAL DOWELS INTO FOOTINGS AND FOUNDATIONS THAT MATCH THE SIZE AND SPACING OF THE VERTICAL REINFORCEMENT IN THE ABOVE O NOT SURCHARGE FDN. AND RETAINING WALLS WITH EQUIPMENT NOR PROVIDE (2) #5 BARS MIN. AROUND ALL DOOR AND WINDOW OPENINGS. PENETRATIONS THROUGH PANELS SHALL BE REINFORCED BY PROVIDING ONE ADDITIONAL BAR AT THE EDGE OF OPENING FOR EACH BAR INTERRUPTED BY THE PENETRATION. PROVIDE UNIFORM NUMBER OF BARS EACH SIDE. PROVIDE (2) #5 DIAGONAL BARS ON 4 SIDES TYP. U.N.O. SEE SCHEDULES, TABLES, AND DETAILS FOR ADDITIONAL REINFORCING AND

SLABS ON GRADE WILL BE 4" THICK U.N.O. REINFORCE ALL SLABS W/ #4 FABRIC (WWF) UNLESS NOTED OTHERWISE ON THE PLAN. REINFORCEMENT SHALL BE PLACED 1/4th THE SLAB THICKNESS + 1/2" BELOW THE TOP OF SLAB. SLAB REINFORCEMENT MAY BE SUBSTITUTED WITH 1.5 POUNDS OF 100% VIRGIN POLYPROPYLENE FIBRILLATED FIBERS PER CUBIC YARD.

5. DO NOT WELD REDAK OK ANCHOR BOLTS, INCLODING TACK WILLDS.

WELD HEADED STUD ANCHORS AND DEFORMED BAR ANCHORS PER MANUFACTURE'S SPECIFICATIONS.

7. TIGHTEN BOLTS BY THE TURN OF THE NUT, CALIBRATED WRENCH, OF THE SIGNAL INDICATOR METHOD. CONTINUOUSLY SUPPORTED AT 36" ON CENTER PRIOR TO PLACING BEGIN POUR OF COMPOSITE STEEL DECK AND CONCRETE FLOORS AT OR NEAR, A SUPPORT OR BEARING WALL TO AVOID EXCESSIVE DEFLECTION AND/OR STRESSING OF THE FLOOR STRUCTURE. SEE SUSPENDED SLAB CONSTRUCTION NOTES FOR ADDITIONAL REQUIREMENTS.
RECESS FOUNDATION AND POUR SLABS THROUGH, TYPICAL AT ALL EXTERIOR DOORS AND STORE FRONT TYPE WINDOWS.
DEPRESS SLABS AS REQUIRED IN AREAS OF CERAMIC TILE, SPECIAL ENTRY MATS, HARDWOOD FLOORS, ETC. COORDINATE LOCATION AND DEPTH WITH

PROVIDE ISOLATION JOINTS AROUND COLUMNS/SPREAD FOOTINGS, AND CONTROL JOINTS AS REQUIRED (I.E., WHERE SLABS TRANSITION IN SIZE). THE CONTRACTOR SHALL ENSURE THAT HEAVY EQUIPMENT AND STAGING AREAS DO NOT CRACK AND DAMAGE SLABS. DAMAGED SLABS SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER. PROVIDE 2 - #4 BARS X 48 INCHES AT ALL DISCONTINUOUS CONTROL OR CONSTRUCTION JOINTS IN SLAB-ON-GRADE. SPACING BETWEEN CONSTRUCTION OR CONTROL JOINTS IN SLABS-ON-GRADE SHALL NOT EXCEED 15'-0" FOR 4" THICK SLABS AND -0" FOR 5" AND 6" THICK SLABS. LENGTH TO WIDTH RATIO OF CONTROL JOINTS SHALL NOT EXCEED 5:1. CONSTRUCTION AND CONTROL JOINTS SHALL BE INSTALLED AS SAWCUT JOINTS SHALL BE MADE WITHIN 12 HOURS AT PLACING CONCRETE.

PROVIDE (1) DIAGONAL #4 BAR x 48" AT ALL INSIDE CORNERS.
ALL SLABS SHALL BE PROPERLY CURED.
REFER TO THE ARCHITECTURAL PLANS FOR SPECIFICATION OF ALL FLAT PROVIDE 4" MIN. OF FREE-DRAINING GRANULAR MATERIAL, "PEA" GRAVEL OR 3/4" TO 1" MINUS CLEAN GAP-GRADED GRAVEL, UNDER ALL ŠÍ ABS-ON-GRADE. PROPERLY CURE ALL CONCRETE. ALL CONCRETE (OTHER THAN

HIGH-EARLY-STRENGTH) SHALL BE MAINTAINED ABOVE 50 F AND A MOIST 3. (HIGH-EARLY-STRENGTH CONCRETE TO REMAIN IN A MOIST CONDITION FOR THE FIRST 3 DAYS) EXCEPT WHEN CURED IN ACCORDANCE WITH ACI 318—"ACCELERATED CURING".

NOTES: ALL WORK TO BE IN STRICT ACCORDANCE WITH THE 2021 IBC, LOCAL OF STRUCTURAL STEEL FOR BUILDINGS" WITH "COMMENTARY", "CODE OF STANDARD PRACTICE", SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM -A325 OR A490 BOLTS", AND "SEISMIC PROVISION FOR STRUCTURAL BUILDINGS".

ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND ERECTION. 3. SEE ARCHITECTURAL SHEETS FOR DIMENSIONS AND DECK BEARING

5. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL FOR ADDITIONAL STEEL MEMBERS (BRACKETS, ANGLES, ETC...) REQUIRED SUBMIT SHOP DRAWINGS OF ALL STRUCTURAL STEEL, STEEL JOISTS, STEEL

DECKING AND MISCELLANEOUS STEEL TO COMPASS ENGINEERING, LLC. FOR APPROVAL PRIOR TO FABRICATION. ALL STEEL SHALL BE PROPERLY PRIMED EXCEPT AREAS THAT REQUIRE FIELD

PROVIDE A STANDARD AISC FRAMED CONNECTION FOR ONE HALF THE BEAM'S TOTAL UNIFORM LOAD CAPACITY WHERE A CONNECTION IS NOT SHOWN. STEEL DETAILER SHALL PROVIDE STANDARD STAIR DETAILING INCORPORATING C12 x 20.7 STRINGERS OR APPROVED EQUAL (U.N.O.). SUBMIT DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

10. PROVIDE ADDITIONAL STEEL AS REQUIRED FOR; POUR STOPS, DECK ANGLES @ ROOF AND FLOORS, DECK SUPPORT ANGLES AS NEEDED, ROOF AND FLOOR DIAPHRAGM CHORDS, CLIP ANGLES, ETC.. AS NEEDED REINFORCE DECK OPENINGS FOR SKYLIGHTS, ACCESS HATCHES, MECHANICAL EQUIPMENT, ETC. WITH L4x4x3/8" OR L6x4x5/16" U.N.O., ON ALL EDGES. ANGLES SHALL SPAN BETWEEN JOISTS AND BETWEEN OTHER ANGLES ETC.

AS REQUIRED. USE 1/4" MIN. FILLET WELDS 12. ANY CONNECTION NOT DETAILED SHALL BE THE RESPONSIBILITY OF THE STEEL FABRICATOR. CONNECTIONS MUST BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER. CONNECTIONS MUST ACCOUNT FOR ALL LOADS & STRESSES INCLUDING BUT NOT LIMITED TO ; GRAVITY, SEISMIC, WIND,

THERMAL STRESSES, EXPANSION / CONTRACTION ETC. CAMBERING OF STEEL BEAMS SHALL BE PROVIDED BY LOCAL STEEL FABRICATOR OF STEEL MILL. SHOP CAMBERING OF BEAMS SHALL BE DONE $_{
m 6.}$ BY A HEAT/SHRINK METHOD. ANY OTHER METHOD OF CAMBERING SHALL BE APPROVED BY AISC AND PROJECT ENGINEER. ALL EXPOSED STEEL SHALL HAVE WELDS GROUND SMOOTH.

WIDE FLANGE SECTIONS: ASTM A992 (50 KSI).

HEADED STUD ANCHORS:

OTHER SHAPES AND PLATES: ASTM A36. TUBULAR COLUMNS: ASTM A500 GRADE B (46 KSI). ASTM A501 (36 KSI) OR A53 GRADE B ASTM A496 DEFORMED BAR ANCHORS:

ANCHOR BOLTS: ASTM A307 WITH ASTM A563 HEAVY HEX NUTS WITH HARDENED WASHERS GRADE A (U.N.O. ASTM A325-N (3/4" DIAMETER MIN.) BOLTED CONNECTIONS: E70 XX AT ALL JOISTS E60 XX AT ALL DECKS E70 XX AT ALL

ASTM A108

ALL WELDS AND BOLTING TO MEET APPROVAL OF SPECIAL INSPECTOR AS REQUIRED BY BUILDING OFFICIAL. 2. ALL WELDING AND CUTTING SHALL BE PERFORMED BY AWS CERTIFIED

ALL INTERSECTING STEEL SHAPES WHICH ARE NOT BOLTED SHALL BE CONNECTED BY A FILLET WELD ALL AROUND, UNLESS NOTED OTHERWISE. FOR THICKNESSES 1/4" AND LARGER, WELD SIZES SHALL BE 1/16" LESS THAN THE THINNEST CONNECTED PART, UNLESS NOTED OTHERWISE. FOR THICKNESSES LESS THAN 1/4", WELD SIZE SHALL BE THE SAME SIZE AS THE THINNEST CONNECTED PART, UNLESS NOTED OTHERWISE.

DO NOT WELD REBAR OR ANCHOR BOLTS, INCLUDING "TACK" WELDS.

TIGHTEN BOLTS BY THE TURN OF THE NUT, CALIBRATED WRENCH, OR DIRECT2. TENSION INDICATOR METHOD. ALL REINFORCING BARS SHALL BE CHAIRED IN THE SLAB. WWF SHALL BE 8. USE HARDENED WASHERS BENEATH THE TURNED ELEMENT OF ALL BOLTS OR NUTS. ALSO USE HARDENED BEVELED WASHERS TO COMPENSATE FOR THE

LACK OF PARALLELISM. 9. PROVIDE HARDENED WASHERS BENEATH THE HEAD AND NUT WHERE A490 BOLTS ARE SPECIFIED PER AISC REQUIREMENTS. HARDENED WASHERS AND PLATES AT OVERSIZED HOLES SHALL CONFORM TO 4

ASTMF-436 AND SHALL .COMPLETELY COVER THE SLOT AFTER INSTALLATION. 11. DO NOT REUSE BOLTS, NUTS OR WASHERS. 12. PROVIDE FULL-DEPTH STIFFENER PLATES AT EACH SIDE OF ALL BEAMS AT ALL BEARING POINTS. STIFFENER PLATE THICKNESS EQUALS THE BEAM WEB . THICKNESS (1/4" MIN.). FILLET WELD BOTH SIDES OF STIFFENER, ALL

STANDARD PENETRATIONS THROUGH STRUCTURAL MEMBERS FOR MECHANICAL PLUMBING, ELECTRICAL SYSTEMS, ETC. SHALL BE PROVIDED ON THE CENTER1 LINE OF THE MEMBER'S DEPTH AND WITHIN THE MIDDLE ONE-THIRD OF THE SPAN. PENETRATIONS LARGER THAN STANDARD (OR GREATER THAN 1/3 THE BEAM DEPTH) ARE NOT PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM COMPASS ENGINEERING, LLC

WOOD FRAMING NOTES:

ALL WORK TO BE IN STRICT ACCORDANCE WITH THE 2021 IBC, NDS, AND LOCAL ORDINANCES

GLU-LAMINATED BEAMS FOR SIMPLE SPANS SHALL BE 24F-V4 DF/DF.

TOP CHORD LIVE LOAD CANTILEVERS SHALL BE TOP CHORD DEAD LOAD 24F-V8 DF/DF. DO NOT INSTALL GLU-LAMINATED BEAMS UPSIDE DOWN. LAMINATED VENEER LUMBER AND THE LIKE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. I-JOISTS SHALL BE TJI OR EQUIVALENT, AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
ENGINEERED LUMBER, WITH THE EXCEPTION OF GLU-LAMINATED LUMBER,
SHALL NOT BE USED IN EXTERIOR APPLICATIONS UNLESS FULLY USE REDWOOD OR PRESSURE TREATED LUMBER FOR ALL WOOD IN CONTACT

WITH CONCRETE, MASONRY, OR EARTH (i.e. MUD SILL).

DIMENSIONAL LUMBER
DIMENSIONAL LUMBER USED AS STRUCTURAL FRAMING (i.e. JOISTS, RAFTERS, 1 AND HEADERS) SHALL BE DOUGLAS FIR-LARCH NO.2 OR EQUAL ORDINANCES, AWS STRUCTURAL WELDING CODE, AND THE FOLLOWING AISC 2. DIMENSIONAL LUMBER USED FOR STUD WALLS SHALL BE STUD GRADE 2x6

PUBLICATIONS: "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION UNLESS NOTED OTHERWISE. SPACE AT 16" O.C. MINIMUM, WITH A DOUBLE OF STRUCTURAL STEEL FOR BUILDINGS" WITH "COMMENTARY" "CODE OF STRUCTURAL STEEL FOR BUILDINGS" WITH "COMMENTARY" "CODE OF STRUCTURAL SPLICES IN THE DOUBLE TOP PLATE SHALL ALTERNATE TOP AND 2.

> ALL SILL PLATES ARE TO BE BOLTED TO FOUNDATION w/ §" DIA x 10" J-BOLTS @ 32" O.C. MAXIMUM, UNLESS NOTED OTHERWISE ON THE DRAWINGS AND SHEARWALL SCHEDULE. I. IN NO CASE SHALL 2 X 4" BEARING WALLS SUPPORT MORE THAN TWO FLOORS OF FRAMING IN ADDITION TO ROOF AND CEILING.
>
> B. REFER TO CONSTRUCTION DOCUMENTS FOR ROUGH CUT TIMBER USED AS STRUCTURAL FRAMING. 6. ALL NAILS SPECIFIED ON THE DETAILS AND SCHEDULES SHALL BE COMMON 6. NAILS UNLESS NOTE OTHERWISE.

COLUMNS L COLUMNS SHALL EXTEND DOWN THROUGH THE STRUCTURE TO THE

BEARING POINTS OF COLUMNS ARE TO BE SUPPORTED BY ADDITIONAL BUILT-UP BLOCKING AT JOISTS AND RAFTERS EQUAL TO THE NUMBER OF PLYS IN POST OR EQUAL TO WIDTH OF POST. BLOCKING SHALL BE CONSTRUCTED USING RIM BOARD MATERIAL OR SOLID SAWN LUMBER.

ROOF AND WALL SHEATHING
OTHING: 15/32" APA 32/16 FOR ROOF SNOW LOAD ≤ 45PSF AND %" APA 32/16 FOR ROOF SNOW LOAD >45PSF WITH 8D COMMON NAILS @ 2 6" O.C. AT SUPPORTED EDGES AND 12" O.C. IN FIELD. U.N.O. 3 PROVIDE 2 X SHAPED BLOCKING AT RIDGES UNLESS A CONTINUOUS MEMBER EXISTS. PANEL EDGES ARE UNBLOCKED UNLESS NOTED OTHERWISE ON THE ALL FLOOR SHEATHING SHALL BE A MINIMUM OF 3/4" THICK T&G SHEATHING GLUED AND NAILED WITH 10d COMMON NAILS OR ÉQUAL AT 6" O.C.

PERIMETER, 6" O.C. PANEL EDGES, AND AT 10" O.C. IN THE FIELD UNLESS NOTED OTHERWISE ON SHEATHING SCHEDULE. PANEL EDGES ARE UNBLOCKED UNLESS NOTED OTHERWISE ON THE STRUCTURAL PLANS. /16" APA EXP. 1 RATED ALL EXTERIOR WALLS SHALL BE SHEATHED WITH 7 SHEATHING OR EQUAL WITH 8d COMMON NAILS AT'6" O.C. EDGES AND A' 12" O.C. IN THE FIELD — FLAT BLOCKED AT ALL PANEL EDGES, UNLESS NOTED OTHERWISE IN THE STRUCTURAL PLANS AND SHEAR WALL SCHEDULE AT ROOF AND FLOOR DIAPHRAGMS, PANEL EDGE NAILING IS TO INCLUDE DRAG STRUTS, TENSION CHORDS, BLOCKING OVER BEARING WALLS AND SHEAR WALLS, AND ANY OTHER SPECIAL DIAPHRAGM MEMBERS NOTED ON DIANS AT SHEAR WALLS, PANEL EDGE NAILING IS TO INCLUDE TOP AND BOTTOM PLATES, END POSTS, ALL VERTICAL ELEMENTS @ HOLDOWN ANCHORS, AND HORIZONTAL BLOCKING. ALL PANEL EDGES MUST BE BLOCKED.

STRUCTURAL CONNECTIONS
THE CONTRACTOR IS ULTIMATELY RESPONSIBLE TO PROVIDE ADEQUATE STRUCTURAL CONNECTIONS. CONNECTIONS MUST CARRY THE BEARING CAPACITY OF THE MEMBER AND ANY UPLIES OF SEISMIC FORCES. GENERATED IN THE MEMBER. SPECIAL CONSIDERATION SHALL BE GIVEN TO PREVENT CRUSHING OF THE MEMBER AT BEARING, SPLITTING AND / OR 2. WRITTEN PRIOR APPROVAL FROM COMPASS ENGINEERING IS REQUIRED FOR ANY DEVIATION FROM THE CONSTRUCTION DOCUMENTS. COMPASS ENGINEERING IS NOT RESPONSIBLE FOR CONNECTIONS NOT APPROVED PRIOR TO CONSTRUCTION OR INSTALLATION. PROVIDE SIMPSON CONNECTIONS OR EQUAL IF CONNECTION DETAILS ARE NOT PROVIDED IN THE CONSTRUCTION DOCUMENTS. INSTALL PER MANUFACTURERS RECOMMENDATIONS. REQUEST ADDITIONAL ASSISTANCE FROM COMPASS ENGINEERING IF NON-STANDARD CONNECTIONS ARE 3/4" BEARING (MINIMUM)

ALL STRUCTURAL MEMBERS SHALL HAVE 1 3/4" BEARING (MINIMUM).

SEE SCHEDULES IN THE 2021 IBC FOR ADDITIONAL NAILING PATTERNS.
FASTENERS USED BELOW GRADE IN PONY WALLS, CRIPPLE WALLS OR KNEE
WALLS AND FASTENERS USED TO ATTACH SHEATHING TO PRESSURE

YPE 304 OR 316 STAINLESS STEEL.

TYPE 304 OR 316 STAINLESS STEEL.

FASTENERS USED APONE CRADE TO ATTACH SHEATHING TO PRESSURE FASTENERS ÜSED ABOVE GRADE TO ATTACH SHEATHING TO PRESSURE TREATED SILL PLATES SHALL BE OF TYPE 304 OR 316 STAINLESS STEEL SILICON BRONZE, COPPER, HOT-DIPPED GALVANIZED (ZINC COATED) STEEL NAILS, OR HOT-TUMBLED GALVANIZED (ZINC COATED) STEEL NAILS ELECTRO—GALVANIZED STEEL NAILS AND GALVANIZED (ZINC COATED) STEEL 2 STAPES SHALL NOT BE PERMITTED.

ALL JOISTS AND RAFTERS SHALL HAVE FULL—HEIGHT SOLID BLOCKING AT THEIR BEARING POINTS. CONNECT EACH BLOCK TO THE TOP OF EXTERIOR WALLS WITH SIMPSON A34 CLIPS (U.N.O.). EACH RAFTER AND/OR ROOF TRUSS SHALL BE ANCHORED WITH SIMPSON H1 ANCHORS AT EACH END. I—JOIST JOISTS USED AS JOISTS AND RAFTERS SHALL HAVE FULL—HEIGHT SOLID BLOCKING AT THEIR BEARING POINTS. CONNECT EACH BLOCK TO THE TOP OF EXTERIOR WALLS WITH SIMPSON A34 CLIPS (U.N.O.). EVERY OTHER I—JOIST RAFTER SHALL BE ANCHORED WITH A SIMPSON H3 CLIP. INSTALL BRIDGING AT THE MID-SPAN OF ALL FLOOR JOISTS AND/OR AT 8'-0 O.C. (WHICH EVER IS SMALLER). INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS TO AVOID EXCESSIVE FLOOR VIBRATION AND/OR SQUEAKING.
STANDARD PENETRATIONS THROUGH STRUCTURAL MEMBERS FOR MECHANICAL,
PLUMBING, ELECTRICAL SYSTEMS, ETC. SHALL BE PROVIDED ON THE CENTER LINE OF THE MEMBER'S DEPTH AND WITHIN THE MIDDLE ONE—THIRD OF THE SPAN. LARGER THAN STANDARD PENETRATIONS ARE NOT PERMITTED WITHOUT PRIOR APPROVAL. BIRDS MOUTHS AND/OR NOTCHING OF STRUCTURAL MEMBERS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL PLANS IS NOT PERMITTED WITHOUT PRIOR WRITTEN APPROVAL.

FABRICATED (PRE-ENGINEERED) TRUSSES MAY BE USED FOR ROOF AND/OR 1 FLOOR FRAMING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. TRUSS MANUFACTURER SHALL DESIGN TRUSSES FOR ALL LOADS PER IBC, INCLUDING UNBALANCED SNOW LOADS, SNOW DRIFTING, SNOW BUILD UP IN VALLEYS AND ON EAVES, ETC. TRUSS MANUFACTURER SHALL RECOMMEND AND PROVIDE ALL REQUIRED TRUSS BRACING, BLOCKING, TRUSS TO TRUSS AND TRUSS TO BEAM CONNECTIONS, ETC. SEE GENERAL SHOP DRAWINGS FOR ALL FABRICATED FRAMING SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION.

TRUSS NOTES

DESIGN LOADS FOR WOOD ROOF TRUSSES:

=47PSF TOTAL DESIGN LOAD <u>DEFLECTION CRITERIA FOR WOOD ROOF TRUSSES</u>

LIVE LOAD DEFLECTION TOTAL LOAD DEFLECTION

WOOD TRUSS DESIGN
TRUSSES SHALL ALSO BE DESIGNED PER THE 2021 IBC, AND LOCAL ORDINANCES. THE USS MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION OF THE RE-FNGINEERED TRUSSES, PER THE DESIGN CRITERIA ABOVE. DESIGN MUST TAKE INTO CRITERIA ABOVE. DESIGN MUST TAKE INTO CRITERIA ABOVE. ACCOUNT UNBALANCED SNOW LOADS, SNOW DRIFTING, INCREASED SNOW LOADS ON EAVES AND IN VALLEYS, IMPACT LOADS FROM FALLING SNOW AND ICE, ETC.
COMPASS ENGINEERING IS NOT RESPONSIBLE FOR THE DESIGN, INSTALLATION, ETC. OF THE TRUSSES. SHOP DRAWINGS FOR ALL WOOD TRUSSES SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
ALL TRUSS TO TRUSS CONNECTORS SHALL BE SPECIFIED BY THE TRUSS MANUFACTURER.
THE TRUSSES SHALL BE DESIGNED TO CARRY ANY ADDITIONAL LOADS DUE TO MECHANICAL UNITS, OVERHEAD DOORS, ROOF OVERBUILDS, ETC. SEE STRUCTURAL PLANS FOR ADDITIONAL

ALL MEMBERS TRUSSES, ACTING AS CEILING MEMBERS, MUST BE ABLE TO SUPPORT D PER CODE REQUIREMENTS. 'É LOAD PER CODE REQUIREMENTS. SECTION SHALL INVOLVE TWO PANEL POINTS BEFORE BEING SPLICED. PROVIDE 1/8" CAMBER FOR EACH 6 FEET OF TRUSS UNLESS OTHERWISE INDICATED TRUSSES WHICH EXCEED 12'-0" IN HEIGHT MAY REQUIRE A CAP TRUSS IN ORDER TO TRANSPORT. VERIFY WITH TRUSS MANUFACTURER. BEAR ON PANEL POINTS OF SUPPORTING BEARING POINTS OF GIRDER TRUSSES ARE TO BE SUPPORTED BY A BUILT-UP 2x_ EQUAL TO THE NUMBER OF PLYS IN GIRDER TRUSS PLUS TWO (2). MINIMUM OF (3) STUDS

FABRICATION AND INSTALLATION
FABRICATION OF TRUSSES SHALL BE AS APPROVED BY ICC. THIS SPECIFICATION SHALL
GOVERN WHEN IT EXCEEDS ICC REQUIREMENTS.
ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION.
FABRICATE TRUSSES FROM SHOP DRAWINGS REVIEWED AND APPROVED BY THE T/ENGINEER. ANY LAYOUT DEVIATION FROM STRUCTURAL DRAWINGS MUST BE O BY THE ENGINEER. FABRICATE TRUSSES IN JIGS WITH MEMBERS ACCURATELY CUT TO PROVIDE GOOD BEARING AT JOINTS. JOINTS SHALL BE ACCEPTABLE IF THE AVERAGE OPENING BETWEEN ENDS OF MEMBERS IMMEDIATELY AFTER FABRICATION IS LESS THAN 1/16", EXCEPT THAT TRUSS COMPRESSION CHORD JOINTS AT SPLICES AND RIDGES SHALL HAVE FULL CONTACT BETWEEN TRUSS FABRICATORS USING METAL PLATES SHALL HAVE PLANT INSPECTED FOUR TIMES PER YEAR BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH TPI REGULATIONS AND COPIES OF INSPECTIONS MADE AVAILABLE TO OWNER UPON REQUEST.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE TRUSSES PER THE TRUSS MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS. NO WEB OR CHORD MEMBERS SHALL BE MODIFIED IN THE FIELD.

TRUSS BRACING AND BLOCKING
THE TRUSS MANUFACTURER SHALL SPECIFY PROPER BRACING OF COMPRESSION CHORD MEMBERS 6'-0" LONG (OR LONGER), AS WELL AS BRACING REQUIRED FOR TRUSS ERECTION, AND ANY OTHER BRACING.
THE TRUSS MANUFACTURER SHALL SPECIFY ALL REQUIRED TRUSS BLOCKING. TRUSS BLOCKING SHALL BE DESIGNED FOR LATERAL LOADINGS. BOTTOM CHORD OF TRUSSES TO BE SHEATHED W/ 5/8" GYPSUM WALL BOARD OR BRACED WITH CONT. 2X4 @ 6'-0" TRUSS MANUFACTURER TO VERIFY.
 TOP CHORDS OF TRUSSES SHALL BE SHEATHED WITH ROOF SHEATHING, ELSE BRACE WITH CONT. 2X4 @ 6'-0" O.C.

METAL GUSSET PLATES
GUSSET PLATES
GUSSET PLATES SHALL BE SPECIFIED FOR GREATER OF EITHER THE MEMBER FORCES
SHOWN ON DRAWINGS OR THE MEMBER FORCES DERIVED FROM STRUCTURAL ANALYSIS. NO PANEL POINT SHALL HAVE MORE THAN ONE PLATE PER TRUSS SIDE.
PLATES SHALL HAVE MINIMUM BITE OF 2 1/2" ON MEMBERS. MEASURE BITE ALONG CENTER LINE OF WEBS AND PERPENDICULAR TO CHORD AXES. ORIENT PLATE AXIS PARALLEL WITH TRUSS CHORD AXIS EXCEPT WHERE CHORDS CHANGE PITCH AT JOINT. PLATE SIZES: MINIMUM WIDTH OF PLATES SHALL BE 3". FOR TRUSSES OTHER THAN SCISSOR TRUSSES, DESIGN PLATES, FOR 135% OF MEMBER FORCES. FOR SCISSOR TRUSSES, DESIGN PLATES, FOR 160 % OF MEMBER FORCES. NO INCREASE IN PLATE VALUES WILL BE ALLOWED FOR DURATION OF LOADING OR OTHER FACTORS. PRESS PLATES INTO MEMBERS TO OBTAIN FULL PENETRATION WITHOUT CRUSHING OUT SURFACE OF WOOD. PLATE EMBEDMENT IS ACCEPTABLE IF OPENING BETWEEN PLATE AND

OTHER METHODS OF ATTACHMENT MAY BE USED WITH WRITTEN PERMISSION FROM THE ARCHITECT AND STRUCTURAL ENGINEER.
PROVIDE STEEL ANGLE LINTELS AT ALL OPENINGS. SEE THE STEEL ANGLE LINTEL SCHEDULE FOR SIZE AND REQUIREMENTS.

ATTACH TO STEEL AND WOOD STUD WALLS WITH DUR-O-WAL DA 213 SEISMIC VENEER ANCHORS OR HOHMANN & BARNARD DW-10 OR DW-10HS SEISMIC VENEER ANCHORS SPACED AT 16" O.C. EACH WAY. ATTACH VENEER ANCHORS TO STUDS WITH #10 CORROSION RESISTANT SELF—DRILLING SCREWS. ATTACH THE VENEER TO THE ANCHORS WITH DUR-O-WAL SEISMIC STEEL PINTELS OR HOHMANN & BARNARD 3/16" DIAMETER BYNA-TIE WITH SEISMICLIPS. ANCHOR TIES MUST ENGAGE A CONTINUOUS, HORIZONTAL GALVANIZED #9 GAUGE WIRE PLACED IN THE CENTER OF THE VENEER AT 16" O.C. (MAX ATTACH TO CONCRETE WALLS WITH 22 GAUGE GALVANIZED, VERTICAL DOVETAIL SLOTS A DUR-O-WAL 16 GAGE SEISMIC DOVETAIL ANCHOR TIES OR HOHMANN & BARNARD 3/16" DIAMETER BYNA-TIE WITH SEISMICLIPS SPACED AT 16" O.C. (MAX.) IN EACH DIRECTION. ANCHOR TIES MUST ENGAGE A HORIZONTAL GALVANIZED #9 GAUGE WIRE PLACED IN THE CENTER OF THE VENEER AT 16" O.C. (MAX).

ATTACH TO REINFORCED MASONRY WALLS WITH TRI—ROD LADDER TYPE REINFORCEMENT WITH THREE #9 GAUGE GALVANIZED CORRUGATED WIRES SPACED AT 16" O.C. (MAX.) VERTICALLY. OPTION: ATTACH VENEER WITH DUR-O-WAL DA 3605 SEISMIC LADDER-EYE SPACED AT 16" O.C. (MAX.) IN EACH DIRECTION. ANCHOR TIES MUST ENGAGE A HORIZONTAL GALVANIZED #9 GAUGE WIRE PLACED IN THE CENTER OF THE VENEER AT 16" O.C. (MAX). ANCHORS MUST EXTEND INTO THE GALVANIZED LADDER TYPE JOINT REINFORCEMENT IN THE MASONRY WALL.

ATTACH TO CONCRETE OR MASONRY BACKING, WITH 12 GAUGE MIN. GALVANIZED WIRE, FORMED BEYOND THE BASE OF THE BACKING. THE LEGS OF THE LOOPS SHALL BE 6" MIN IN LENGTH BENT AT RIGHT ANGLES AND LAID IN THE MORTAR JOINT, AND SPACED SO THAT THE EYES OR LOOPS ARE 12" MAX. ON CENTER IN BOTH DIRECTIONS. THERE SHALL BE A 12 GAUGE MIN. GALVANIZED WIRE TIE THREADED THROUGH THE EXPOSED LOOPS FOR EVERY 2 SQUARE FEET OF STONE VENEER. THIS TIE SHALL BE A LOOP HAVING LEGS 15," MIN. LENGTH BENT SO THAT IT WILL LIE IN THE MORTAR JOINT. THE LAST 2" OF EACH WIRE LEG SHALL HAVE A 90° BEND. 1" MIN. THICKNESS OF CEMENT GROUT SHALL BE PLACED BETWEEN THE BACKING AND THE STONE VENEER. 2. ATTACH TO STUD BACKING WITH A 2"X2"X16 GALVANIZED WIRE MESH WITH TWO LAYERS OF WATERPROOF PAPER BACKING APPLIED DIRECTLY TO STUDS AT 16" O.C. MAX., THE MESH SHALL BE ATTACHED WITH 2" LONG GALVANIZED STEEL WIRE FURRING NAILS AT 4" O.C. WITH 1 1/8" MIN PENETRATION INTO STUDS AND 8d COMMON NAILS AT 8" O.C. INTO TOP AND BOTTOM PLATES OR WITH EQUIVALENT WIRE TIES. THERE SHALL BE A 12 GAUGE MIN. GALVANIZED WIRE LOOPED THROUGH THE MESH FOR EVERY 2 SQUARE FEET OF STONE VENEER. THIS TIE SHALL BE A LOOP HAVING LEGS 15" MIN. LENGTH BENT SO THAT IT WILL LIE IN THE MORTAR

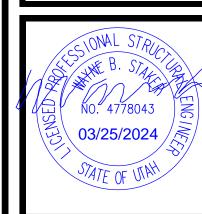
JOINT. THE LAST 2" OF EACH WIRE LEG SHALL HAVE A 90° BEND. 1" MIN. THICKNESS OF CEMENT GROUT SHALL BE PLACED BETWEEN THE BACKING AND THE STONE VENEER.

SHALL BE DESIGNED FOR COMBINED STRESSES, BASED ON THE WORST

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CONSTRUCTION CONSTRUCTION BID SET WALL T WALL T WALL TO THE MASSONRY

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JOINSIBLE FOR ACTUAL LAYOUT AND PLACEMENT

JOINSIBLE FOR ACTUAL LAYOUT AND PLACEMENT

MATERIALS

MATERIALS

MATERIALS

MATERIALS

MATERIALS LIGHTWEIGHT GRADE N TYPE

(MIN. STRENGTH=1900 PSI) f'm=1500 PSI MIN. B. ATLAS BRICK: f'm=8000 PSI (f'm=2500 PSI DESIGN) (CONFORM TO WSCPA STANDARDS)

TYPE "S" (MIN. COMP. STRENGTH=1800 PSI)

24'-0" MAXIMUM SPACING FOR MASONRY CONTROL JOINTS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS. PROVIDE ADDITIONAL JOINTS A DISCONTINUITIES AND WHERE THERE IS A NOTICEABLE CHANGE IN MASS. VERIFY LOCATIONS WITH ARCH. AND ENGINEER.

10. SOLID GROUT WALLS ADJACENT TO OPENINGS (DOORS, WINDOWS, ETC.)

MATERIALS UNLESS NOTED OTHERWISE ON THE PLANS AND SPECIFICATIONS:

REINFORCING STEEL: ASTM A615 GRADE 60 (Fy = 60 KSI) ANCHOR BOLTS: ASTM A307 W/ ASTM A563 HEAVY HEX NUTS AND HARDENED WASHERS HEADED STUD ANCHORS: ASTM A108

2. REQUIRED REINFORCEMENT COVER:

MASONRY EXPOSED TO SOIL: 1.5"
JOINT REINFORCEMENT: 5/8" FROM EXPOSED FACE
OTHER REINFORCEMENT: ONE BAR DIAMETER (NOT LESS THAN 3/4")

SECURE ALL VERTICAL STEEL REINFORCEMENT AGAINST DISPLACEMENT PRIOR TO GROUTING WITH WIRE POSITIONERS OR SIMILAR DEVICE. POSITIONERS

BAR CENTER OF WALL UNLESS NOTED OTHERWISE
JE CONTINUOUS HORIZONTAL WALL REINFORCING THROUGH JOINING
JETE WALLS, MASONRY WALLS, COLUMNS, AND PILASTERS.
JE CONTINUOUS HORIZONTAL REINFORCEMENT AT ALL CORNERS AND
JECTING WALLS. PROVIDE CORNER BARS WITH THE REQUIRED LAP

TERMINATE HORIZONTAL WALL REINFORCING AT EACH SIDE OF CONTROL

JOINTS EXCEPT AT ROOF/FLOOR BEARING, BEAMS, AND TOP OF PARAPETS.
 TERMINATE ALL MASONRY TIES WITH 135 DEGREE HOOKS PLUS A 6 BAR DIAMETER EXTENSION (4" MINIMUM).
 DOWEL WALL AND COLUMN REINFORCEMENT INTO THE FOOTING OR STRUCTURE BELOW WITH REINFORCEMENT OF THE SAME SIZE AND SPACING. PROVIDE 40 BAR DIAMETERS FOR SPLICE (24" MIN.) U.N.O. PROVIDE 6" MINIMUM LAP FOR JOINT REINFORCEMENT.
 DO NOT WELD REINFORCING BARS. DO NOT SUBSTITUTE REINFORCING BARS FOR DRA'S OR HAS'S

FOR DBA'S OR HAS'S.

1. ALL STANDARD WALL REINFORCING SHALL CONTINUE THROUGH THE LINTEL SECTION.

ALL HORIZONTAL REINFORCING IN HEADERS AND LINTELS SHALL EXTEND 24" MIN. BEYOND EDGE OF OPENING INTO SUPPORT. PROVIDE STANDARD 90° HOOK AT ENDS IF HORIZONTAL REINFORCING CAN NOT EXTEND 24" BEYOND

6. SOLID GROUT ALL LINTELS AND SUPPORTING MASONRY COLUMNS.
7. DO NOT LAP BOTTOM STEEL WITHIN SPAN. DO NOT LAP TOP STEEL NEAR INTERIOR OR EXTERIOR SUPPORTS.
7. PROVIDE A "U" BLOCK AT THE BOTTOM BLOCK OF THE LINTEL.
7. PENETRATIONS THROUGH LINTELS FOR MECHANICAL, ELECTRICAL SYSTEMS, ETC. ARE NOT PERMITTED WITHOUT APPROVAL OF THE ENGINEER.

MASONRY STRENGTH VERIFICATION

VERIFY I'm USING THE "UNIT STRENGTH METHOD" PER IBC SECTION 2105.2.2.1 AND AS DESCRIBED BELOW;

SUPPLIER SHALL PROVIDE A LETTER OF STRENGTH CERTIFICATION FOR THE MASONRY AND GROUT PRIOR TO CONSTRUCTION.
TEST THE GROUT AND MORTAR EVERY 5.00 SQUARE FEET OF CONSTRUCTED.

2. AT THE CONTRACTOR'S OPTIONS, USE THE "MASONRY PRISM TEST METHOD" OR THE "MASONRY PRISM TEST RECORD METHOD".

SPECIAL INSPECTION SCHEDULE ESTABLISHED PER 2021 IBC CHAPTER 17 ITEM CONTINUOUS 3 PERIODIC 3 NOTES PRE-FAB CONSTRUCTION (IBC 1704.2.5) REFERENCE NOTES 2 & 7 STEEL CONSTRUCTION (IBC 17045.2) SHOP AND FIELD WELDING MATERIAL IDENTIFICATION	
ITEM CONTINUOUS 3 PERIODIC 3 NOTES PRE-FAB CONSTRUCTION (IBC 1704.2.5) REFERENCE NOTES 2 & 7 STEEL CONSTRUCTION (IBC 17045.2) SHOP AND FIELD WELDING	
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STEEL CONSTRUCTION (IBC 17045.2) SHOP AND FIELD WELDING	
SHOP AND FIELD WELDING	
SHOP AND FIELD WELDING	
MATERIAL IDENTIFICATION	
FIT UP OF GROOVE WELD (INCLUDE JOIN GEOMETRY) FIT UP OF GROOVE WELDS OF HSS T-, Y- & K JOINTS W/ OUT BACKING REFERENCE NOTE 4 REFERENCE NOTE 4	
FIT UP OF GROOVE WELDS OF HSS T-, Y- & K JOINTS W/ OUT BACKING REFERENCE NOTE 4 FIT UP AND FILLET WELDS REFERENCE NOTE 4	
NO WELDING OF CRACKED TACK WELDS	
WELDING TECHNIQUES REFERENCE NOTE 5	
WELDING OF STEEL HEADED STUD ANCHORS ●	
WELDS CLEANED	
SIZE, LENGTH & LOCATION OF WELD WELDS MEET VISUAL ACCEPTANCE CRITERIA REFERENCE NOTE 16	
WELDS MEET VISUAL ACCEPTANCE CRITERIA REFERENCE NOTE 16 ARC STRIKES	
K- AREA	
BACKING & WELD TABS REMOVED (IF REQUIRED)	
WELDING OF STAIRS/RAILING SYSTEM	
WELDING OF REINFORCING STEEL REFERENCE NOTE 6	
BOLTING CONTROL OF THE CONTROL OF TH	
FASTENER'S MANUFACTURE CERTIFICATE FASTENERS ASTM REQUIREMENTS REFERENCE NOTE 17	
BOLTING PROCEDURE	
CONNECTING ELEMENTS REFERENCE NOTE 18	
FASTENERS ASSEMBLIES POSITION REFERENCE NOTE 10	
FASTENER TIGHTENING REFERENCE NOTE 10	
FASTENER PRETENSIONED SPEC. REFERENCE NOTE 19	
CONCRETE CONSTRUCTION (IBC 1704.4) SEE IBC TABLE 1704.4 — REF. NO	TE 11
REINFORCING STEEL PLACEMENT	
WELDING OF REINFORCING STEEL REFERENCE NOTE 6	
EMBEDDED BOLTS & PLATES	
VERIFYING REQUIRED DESIGN MIX	
CONCRETE PLACEMENT / SAMPLING CURING TEMPERATURE / TECHNIQUES	
PRESTRESSED CONCRETE	
APPLICATION OF PRESTRESSING FORCES	
GROUTING BONDED TENDONS IN SEISMIC-FORCE-RESISTING SYST	EM
ERECTION OF PRECAST MEMBERS	
VERIFICATION OF IN−SITU STRENGTH ■ REFERENCE NOTE 15	
EPOXY / EXPANSION ANCHOR PLACEMENT REFERENCE NOTE 9	
SOILS (IBC 1705.6) REFERENCE NOTE 12	
SITE PREPARATION	
PLACEMENT OF FILL REFERENCE NOTE 13	
IN-PLACE DENSITY	
FINAL FOUNDATION PREPARATION	

SPECIAL INSPECTION NOTES:

THE ITEMS MARKED WITH A "" IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS, AND THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL, ANY ITEMS WHICH FAIL TO COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, ARCHITECT, AND ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF THE WORK. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.

SPECIAL INSPECTION IS NOT REQUIRED FOR WORK PERFORMED BY AN APPROVED FABRICATOR PER IBC SECTION 1704.2.5 CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. (IBC SECTION

INSPECTOR SHOULD VERIFY JOINT PREPARATION, DIMENSION, (ALIGNMENT, ROOF OPENING, ROOF FACE, BEVEL, CLEANING (CONDITION OF STEEL STRUCTURE), TACKING (TACK WELD QUALITY & LOCATION), BACKING TYPE AND FIT(IF APPLICABLE)

INSPECTOR SHOULD VERIFY INTERPASS AND FINAL CLEANING, AND EACH PASS WITHIN PROFILE LIMITATIONS AND MEET QUALITY PERIODIC SPECIAL INSPECTION IS ALLOWED FOR VERIFICATION OF THE WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706 IN ACCORDANCE WITH IBC. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS, AND SHEAR REINFORCEMENT. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR WELDING OF OTHER ASTM A 706 REINFORCING STEEL NOT INCLUDED IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS NOTED ABOVE.

INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. CONTINUOUS INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE.

ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT. EPOXY AND EXPANSION ANCHORS INTO MASONRY OR CONCRETE MAY BE USED ONLY WHEN APPROVED BY ARCHITECT AND / OR

ENGINEER USING AN APPROVED PRODUCT WITH CURRENT PUBLISHED ICBO RESEARCH REPORT NUMBERS 10. WELDING IN COMPLIANCE WITH AWS D1.1.

1. SPECIAL INSPECTION IS NOT REQUIRED FOR CONC. ISOLATED SPREAD FOOTING, CONTINUOUS FOOTINGS, NON-STRUCTURAL SLABS, FOUNDATION WALLS, PATIOS, DRIVEWAYS, AND SIDEWALKS PROVIDED THE REQUIREMENTS OF IBC 1704.4 ARE MET. Special inspection of soils shall reference the approved soils report to determine compliance. 13. SPECIAL INSPECTIONS ARE NOT REQUIRED DURING PLACEMENT OF FILL LESS THAN 12 INCHES DEEP.

14. SLIP-CRITICAL CONNECTIONS MAY HAVE PERIODIC SPECIAL INSPECTION PROVIDED THAT THE TURN-OF-THE-NUT METHOD WITH MATCH MARKING TECHNIQUES IS USED. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR VERIFICATION OF IN-SITU CONCRETE STRENGTH FOR POST-TENSIONED CONCRETE PRIOR

TO TENSIONING TENDONS OR REMOVING SHORING OR FORMS. INSPECTION SHOULD CHECK CRACK PROHIBITION, WELD/BASE METAL FUSION, CRATER CROSS SECTION, WELD PROFILE, WELD SIZE, UNDERCUT AND POROSITY

INSPECTION SHOULD VERIFY IT CORRECT FASTENERS ARE USED FOR THE JOINT DETAIL (GRADE TYPE, BOLT LENGTH IF THREAD ARE TO BE EXCLUDED FROM SHEAR PLAN)

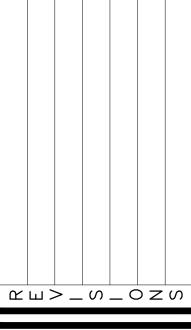
18. INSPECTOR SHOULD CHECK AND VERIFY CONNECTION ELEMENTS, INCLUDING THE APPROPRIATE FACING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED MEET APPLICABLE REQUIREMENTS 19. INSPECTOR SHOULD VERIFY THAT THE FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSION

SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES

TMS 602-16

Table 4 – Minimum Special Inspection Requirements

		Inspection Task	Fr	equency ((a)	Reference for Criteria		
			Level 1	Level 2	Level 3	TMS 402	TMS 602	
		masonry construction begins, verify that the lowing are in compliance:						
	a.	5 0 60 1 0	NR	Р	Р		Art. 2.1, 2.6 A, & 2.6 C	
		Grade and size of prestressing tendons and anchorages	NR	Р	Р		Art. 2.4 B & 2.4 H	
	C.		NR	Р	Р		Art. 3.4 & 3.6 A	
	d.	Prestressing technique	NR	Р	Р		Art. 3.6 B	
	e.	Properties of thin-bed mortar for AAC masonry	NR	C ^(b) /P ^(c)	С		Art 2.1 C.1	
	f.	Sample panel construction	NR	Р	С		Art. 1.6 D	
2.	Pri	or to grouting, verify that the following are in					Angle 20 collisies (agreen control of the same	
ortik		mpliance:						
	a.	•	NR	Р	С		Art. 3.2 D & 3.2 F	
		Placement of prestressing tendons and anchorages	NR	Р	Р	Sec. 10.8 & 10.9	Art. 2.4 & 3.6	
	c.		NR	Р	С	Sec. 6.1, 6.3.1, 6.3.6, & 6.3.7	Art. 3.2 E & 3.4	
	d.	Proportions of site-prepared grout and prestressing grout for bonded tendons	NR	Р	Р		Art. 2.6 B & 2.4 G.1.b	
.		rify compliance of the following during						
		nstruction:						
	а.	Materials and procedures with the approved submittals	NR	Р	Р		Art. 1.5	
	b.	Placement of masonry units and mortar joint construction	NR	Р	Р		Art. 3.3 B	
	c.	Size and location of structural members	NR	Р	Р		Art. 3.3 F	
	d.	Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, and other construction	NR	Р	С	Sec. 1.2.1(e), 6.2.1 & 6.3.1		
	e.	Welding of reinforcement	NR	С	С	Sec. 6.1.6.1.2		
	f.	Preparation, construction, and protection of masonry during cold weather (temperatures below 40°F (4.4°C)) or hot weather (temperatures above 90°F (32.2°C))	NR	Р	Р		Art. 1.8 C & 1.8 D	
	g.	Application and measurement of prestressing force	NR	С	С		Art. 3.6 B	
	h.	Placement of grout and prestressing grout for bonded tendons is in compliance	NR	С	С		Art. 3.5 & 3.6 C	
		Placement of AAC masonry units and	NR	C ^(b) /P ^(c)			Art. 3.3 B.9 & 3.3 F.1.k	







CONSTRUCTION CONSTRUCTION BID SET

NOTE: DO NOT SCALE PLANS. SEE ARCHITECTURAL PLANS FOR WALL LOCATIONS

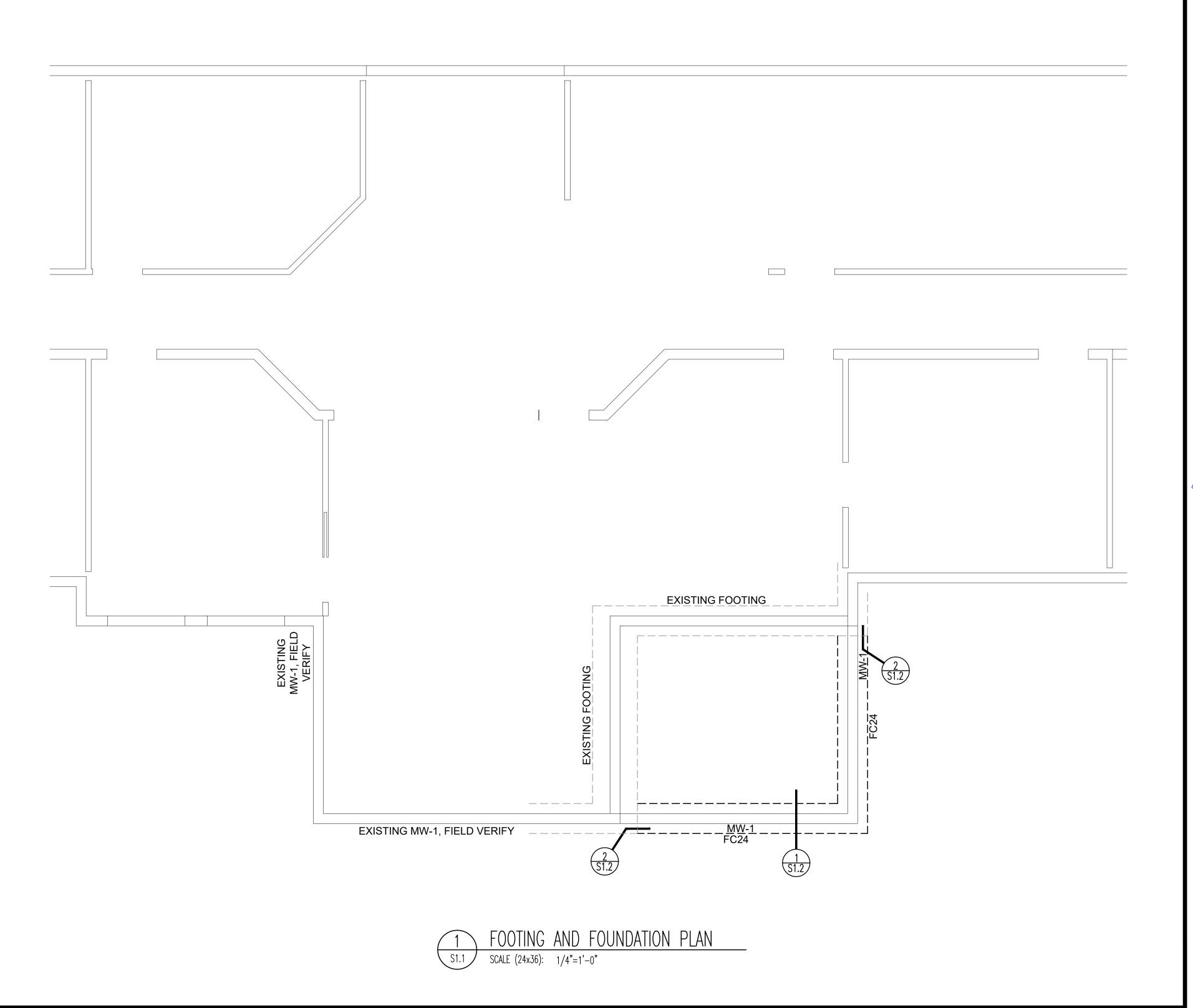
	FOOTING SCHEDULE											
MADIZ	MARK WIDTH	LENGTH DEDTI		REINFORCING CROSSWISE			R	REINFORCING LENGTHWISE			DEMARKS	
MARK		LENGIH	LENGTH	DEPTH	NO	SIZE	LENGTH	SPACING	NO	SIZE	LENGTH	SPACING
FC20	1'-8"	CONT.	1'-0"					3	#4	CONT.	EQUAL	
FC24	2'-0"	CONT.	1'-0"					3	#4	CONT.	EQUAL	
FC30	2'-6"	CONT.	1'-0"					3	# 5	CONT.	EQUAL	
FS24	2'-0"	2'-0"	1'-0"	3	#4	1'-6"	EQUAL	3	#4	1'-6"	EQUAL	
FS30	2'-6"	2'-6"	1'-0"	3 (5)	# 5 (# 4)	2'-0"	EQUAL	3	# 5	2'-0"	EQUAL	
FS36	3'-0"	3'-0"	1'-0"	3	# 5	2'-6"	EQUAL	3	# 5	2'-6"	EQUAL	

- ASSUMED ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF (ASSUMED FROM TABLE 1806.2 OF THE 2021 IBC) (CONTRACTOR TO VERIFY)
- MINIMUM COMPRESSIVE CONCRETE STRENGTH f'c = 3000 PSI
- ALL REINFORCING STEEL SHALL BE GRADE 60 AND BE PROPERLY TIED INTO PLACE PRIOR TO POUR
- ALL CONCRETE WORK MUST MEET THE REQUIREMENTS OF THE 2021 IBC, ACI 318 AND LOCAL ORDINANCES
- ALL BARS MUST BE 3" CLEAR FROM GRADE

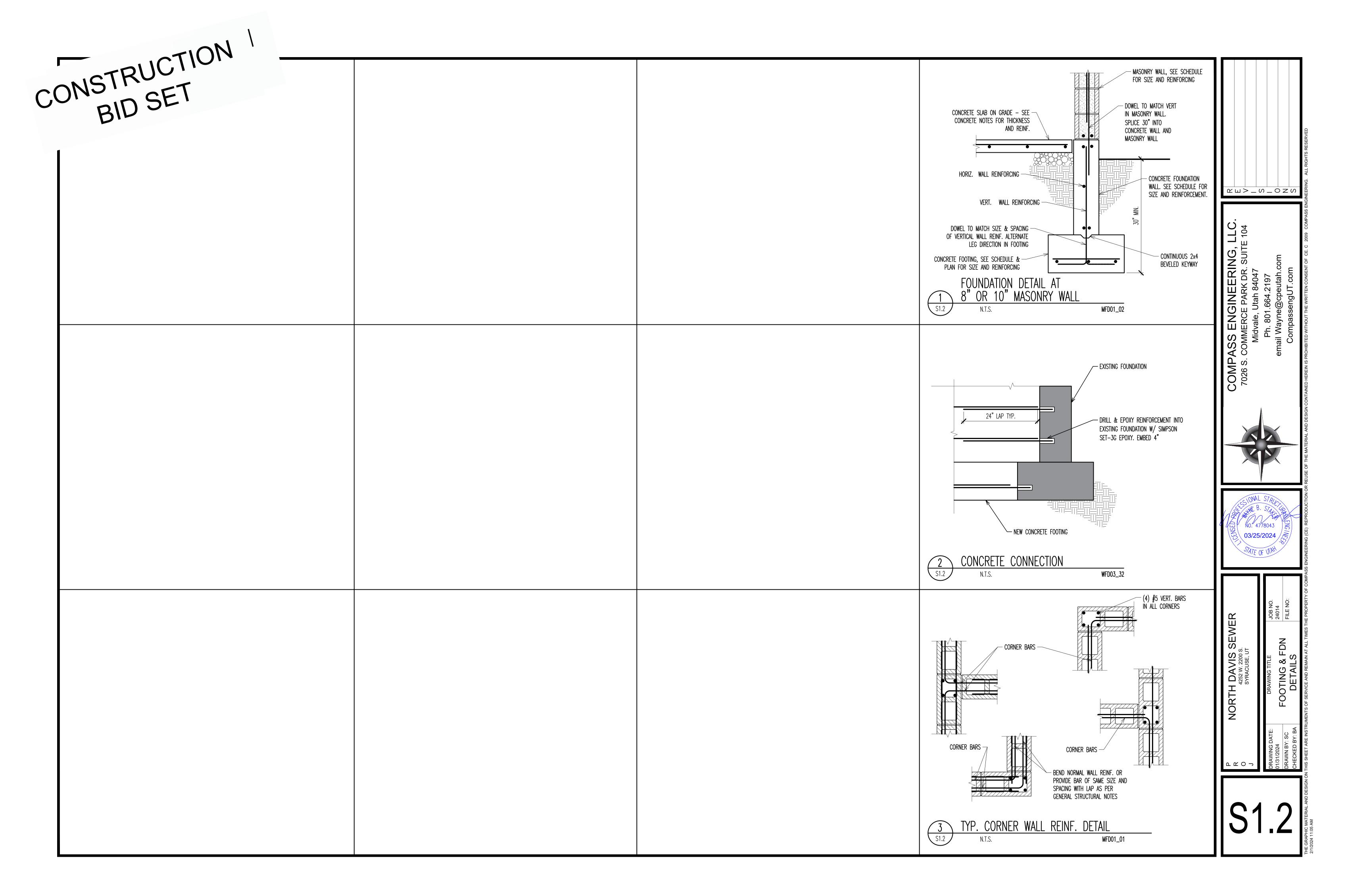
CONCRE	ETE FO	OUNDATION W	ALL SCHEDUI	E			FO.FO.	2
MAX. HEIGHT	MIN. Thick	vert. Steel	HORZ. STEEL	TOP AND BOTTOM HORIZ REINFORCEMENT	WALL TYP.	REMARKS		— но
4'-0"	8"	#4 @ 32" O.C.	#4 @ 12" O.C.	(1) #4	A			REI
6'-0"	8"	#4 @ 24" O.C.	#4 @ 12" O.C.	(1) #4	A			VEI
8'-0"	8"	#4 @ 24" O.C.	#4 @ 12" O.C.	(1) #4	A		1 1	REI
9'-0"	8"	#4 @ 16" O.C.	#4 @ 12" O.C.	(1) #4	A		1	
10'-0"	8"	#4 @ 12" O.C.	#4 @ 12" O.C.	(1) #4	A] WALL TYP	E "A"

				MASONF	RY WALL SCHE	DULE		
WALL MARK	THICKNESS	MATERIALS	SOLID GROUT	VERTICAL	REINFORCING HORIZONTAL	JOINTS	SPECIAL INSP. REQ'D.	JAMBS & ENDS
MW-1	8"	CMU	NO	#5 @ 32" O.C.	#5 @ 48" O.C.	DURAWALL @ 16" O.C.	YES	(2) #5 VERT.

- 1. COORDINATE WITH ARCHITECTURAL DRAWINGS, MASONRY WALL FINISHES, TYPES OF MATERIAL, COURSING, ETC...
- DO NOT SOLID GROUT WALLS UNLESS NOTED OTHERWISE.
- SOLID GROUT ALL MASONRY BELOW GRADE.
- CENTER VERTICAL REINFORCING IN THE WALL UNLESS NOTED OTHERWISE. PLACE HORIZONTAL WALL REINFORCING BETWEEN VERTICAL MASONRY COLUMN REINFORCING BARS.
- CONTINUE HORIZONTAL WALL REINFORCING THRU MASONRY LINTELS. USE LARGER REINFORCING WHERE BOTH HORIZONTAL WALL
- REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE. SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.
- MASONRY WALLS NOT DESIGNATED ON THE PLANS SHALL BE REINFORCED AS SHOWN ON SCHEDULE.
- 9. f'm= 2500 PSI
- 10. REINFORCING STEEL TO BE GRADE 60
- 11. CONTROL JOINTS TO BE 24'-0" MAX



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CONSTRUCTION CONSTRUCTION BID SET

ROOF FRAMING NOTES:

1. ALL EXTERIOR WALLS SHALL BE CONSIDERED BEARING U.N.O.

ADDITIONAL SPECIFICATIONS AND REQUIREMENTS.

SUPPORTED EDGES AND 12" O.C. IN FIELD. U.N.O.

10. USE 'H' CLIPS ON ROOF SHEATHING

LEGEND

4. PROVIDE DOUBLE TRIMMERS & DOUBLE KING STUDS @ OPENINGS $\geq 5'-0$ "

2. ALL EXTERIOR BEARING WALLS SHALL BE CONSTRUCTED WITH DFL#2 2x6 STUDS @ 16" ON CENTER. U.N.O.

U.N.O. THE TRUSS MFG. SHALL BE RESPONSIBLE FOR ALL TRUSS RELATED CONNECTIONS. 8. TRUSS MANUFACTURER TO DESIGN FOR ALL ADD LOADS; MECHANICAL UNITS, SNOW DRIFT ETC.

11. FOR 4-PLY BEAMS, CONNECT W/ (2) ROWS OF SDS 1/4"X6" SCREWS @ 16" O.C. BOTH SIDES

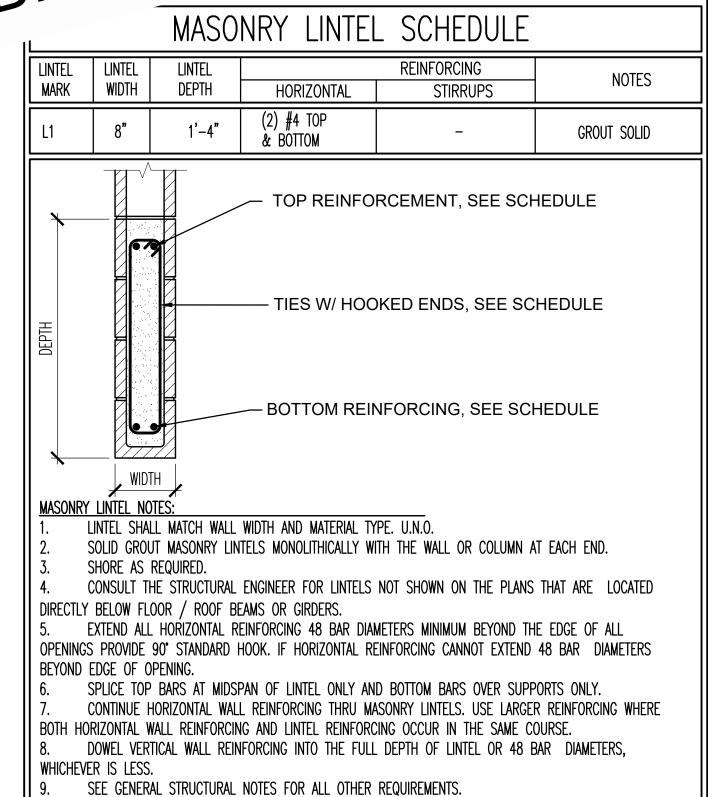
12. FOR 3-PLY BEAMS, CONNECT W/ (3) ROWS OF 10d NAILS @ 12" O.C. BOTH SIDES 13. FOR 2-PLY BEAMS, CONNECT W/ (3) ROWS OF 10d NAILS @ 12" O.C. ON ONE SIDE

= OVERBUILD

 $\frac{(2)2x}{} = HEADER/BEAM LOCATION$

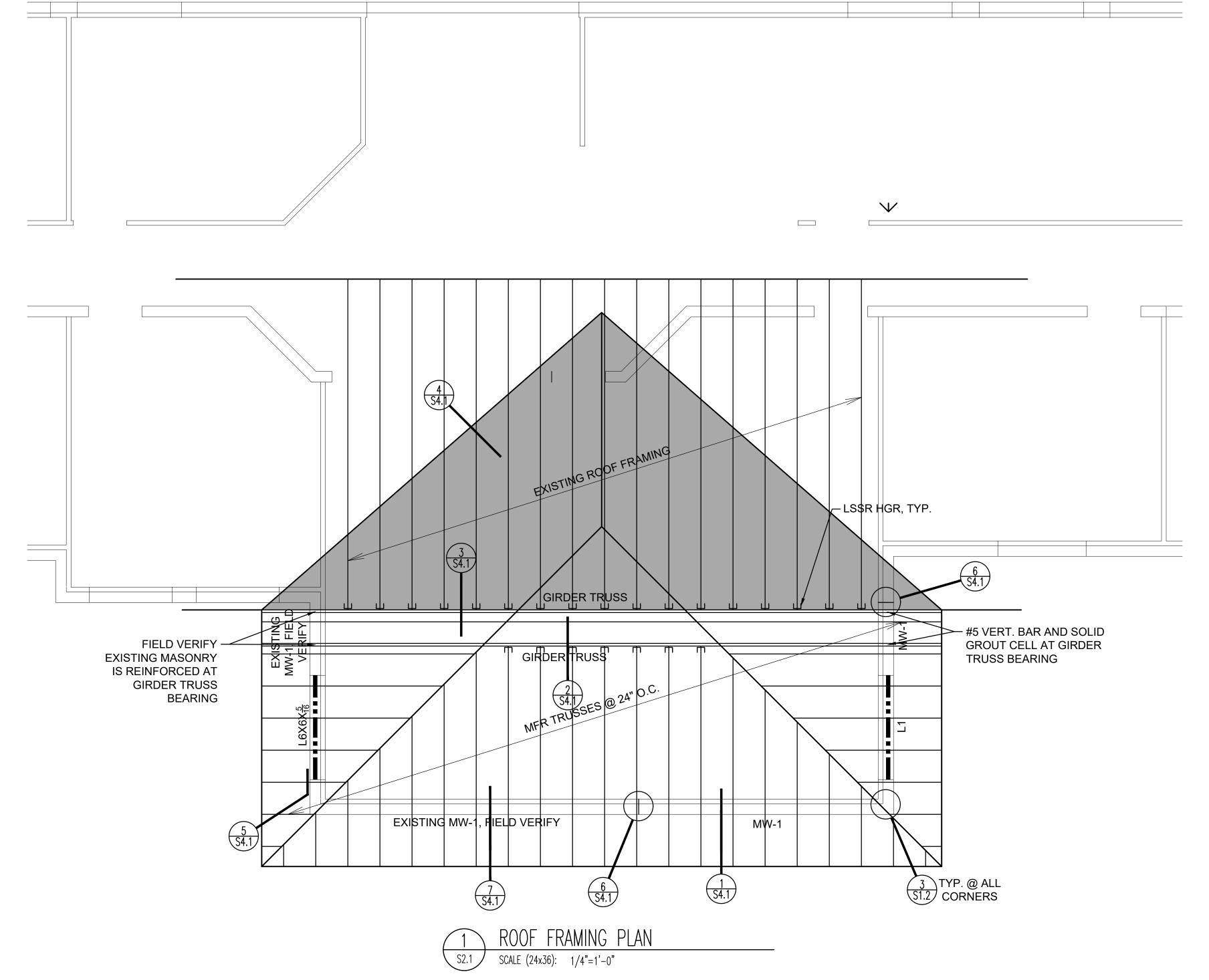
= BEARING WALL

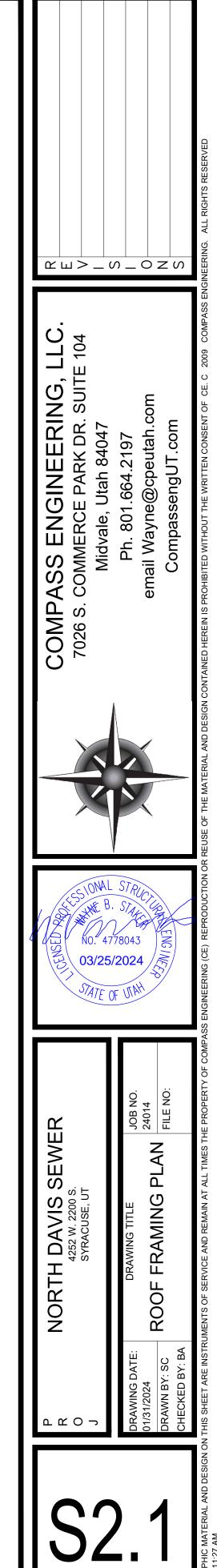
6. ALL POSTS AND COLUMNS MUST PROVIDE A DIRECT CONTINUOUS BEARING LINE THROUGH TO THE FOOTING/FOUNDATION.



	MASONRY WALL SCHEDULE									
WA MA	1 11 11/ 11/ 11	SS MATERIALS	SOLID GROUT	VERTICAL	REINFORCING HORIZONTAL	JOINTS	SPECIAL INSP. REQ'D.	JAMBS & ENDS		
MW	-1 8"	CMU	NO	#5 @ 32" O.C.	#5 @ 48" O.C.	DURAWALL @ 16" O.C.	YES	(2) #5 VERT.		

- 1. COORDINATE WITH ARCHITECTURAL DRAWINGS, MASONRY WALL FINISHES, TYPES OF MATERIAL, COURSING, ETC...
- DO NOT SOLID GROUT WALLS UNLESS NOTED OTHERWISE. SOLID GROUT ALL MASONRY BELOW GRADE.
- CENTER VERTICAL REINFORCING IN THE WALL UNLESS NOTED OTHERWISE.
- PLACE HORIZONTAL WALL REINFORCING BETWEEN VERTICAL MASONRY COLUMN REINFORCING BARS.
- CONTINUE HORIZONTAL WALL REINFORCING THRU MASONRY LINTELS. USE LARGER REINFORCING WHERE BOTH HORIZONTAL WALL
- REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE. SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.
- MASONRY WALLS NOT DESIGNATED ON THE PLANS SHALL BE REINFORCED AS SHOWN ON SCHEDULE.
- 9. f'm = 2500 PSI10. REINFORCING STEEL TO BE GRADE 60
- 11. CONTROL JOINTS TO BE 24'-0" MAX



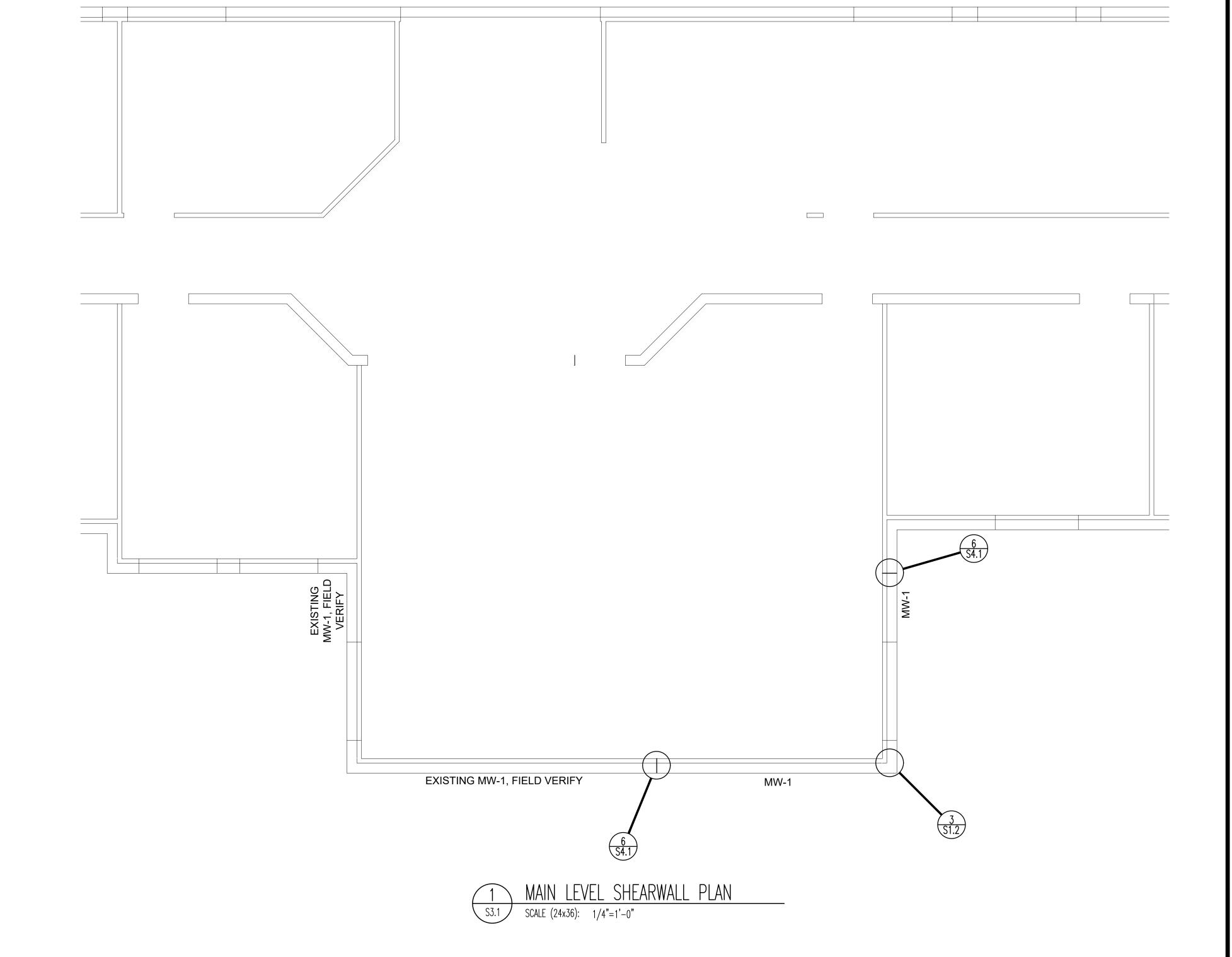


3. PROVIDE STANDARD CONSTRUCTION FOR ALL WINDOW AND DOOR OPENINGS (ONE KING STUD AND ONE TRIMMER AT EACH END FOR ALL OPENINGS < 5'-0") U.N.O. 5. WALL SHEATHING: 7/16" APA SHEATHING 8D @ 6" O.C. AT PANEL EDGES AND 12" O.C. IN FIELD. U.N.O. REFER TO SHEAR WALL PLANS AND SCHEDULES FOR 9. ROOF SHEATHING: $1\frac{5}{32}$ APA 32/16 FOR ROOF SNOW LOAD \leq 45PSF AND $\frac{5}{8}$ APA 32/16 FOR ROOF SNOW LOAD >45PSF WITH 8D COMMON NAILS @ 6" O.C. AT

> NOTE: CONTRACTOR TO VERIFY EXISTING CONDITIONS AT NEW CONSTRUCTION.

MASONRY WALL SCHEDULE									
WALL MARK	THICKNESS	MATERIALS	SOLID GROUT	VERTICAL	REINFORCING HORIZONTAL	JOINTS	SPECIAL INSP. REQ'D.	JAMBS & ENDS	
MW-1	8"	CMU	NO	#5 @ 32" O.C.	#5 @ 48" O.C.	DURAWALL @ 16" O.C.	YES	(2) #5 VERT.	

- 1. COORDINATE WITH ARCHITECTURAL DRAWINGS, MASONRY WALL FINISHES, TYPES OF MATERIAL, COURSING, ETC...
- DO NOT SOLID GROUT WALLS UNLESS NOTED OTHERWISE.
- 3. SOLID GROUT ALL MASONRY BELOW GRADE.
- CENTER VERTICAL REINFORCING IN THE WALL UNLESS NOTED OTHERWISE.
- PLACE HORIZONTAL WALL REINFORCING BETWEEN VERTICAL MASONRY COLUMN REINFORCING BARS.
- 6. CONTINUE HORIZONTAL WALL REINFORCING THRU MASONRY LINTELS. USE LARGER REINFORCING WHERE BOTH HORIZONTAL WALL
- REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE.
- 7. SEE GENERAL STRUCTURAL NOTES FOR ALL OTHER REQUIREMENTS.
- MASONRY WALLS NOT DESIGNATED ON THE PLANS SHALL BE REINFORCED AS SHOWN ON SCHEDULE.
- 9. f'm= 2500 PSI
- 10. REINFORCING STEEL TO BE GRADE 60
- 11. CONTROL JOINTS TO BE 24'-0" MAX

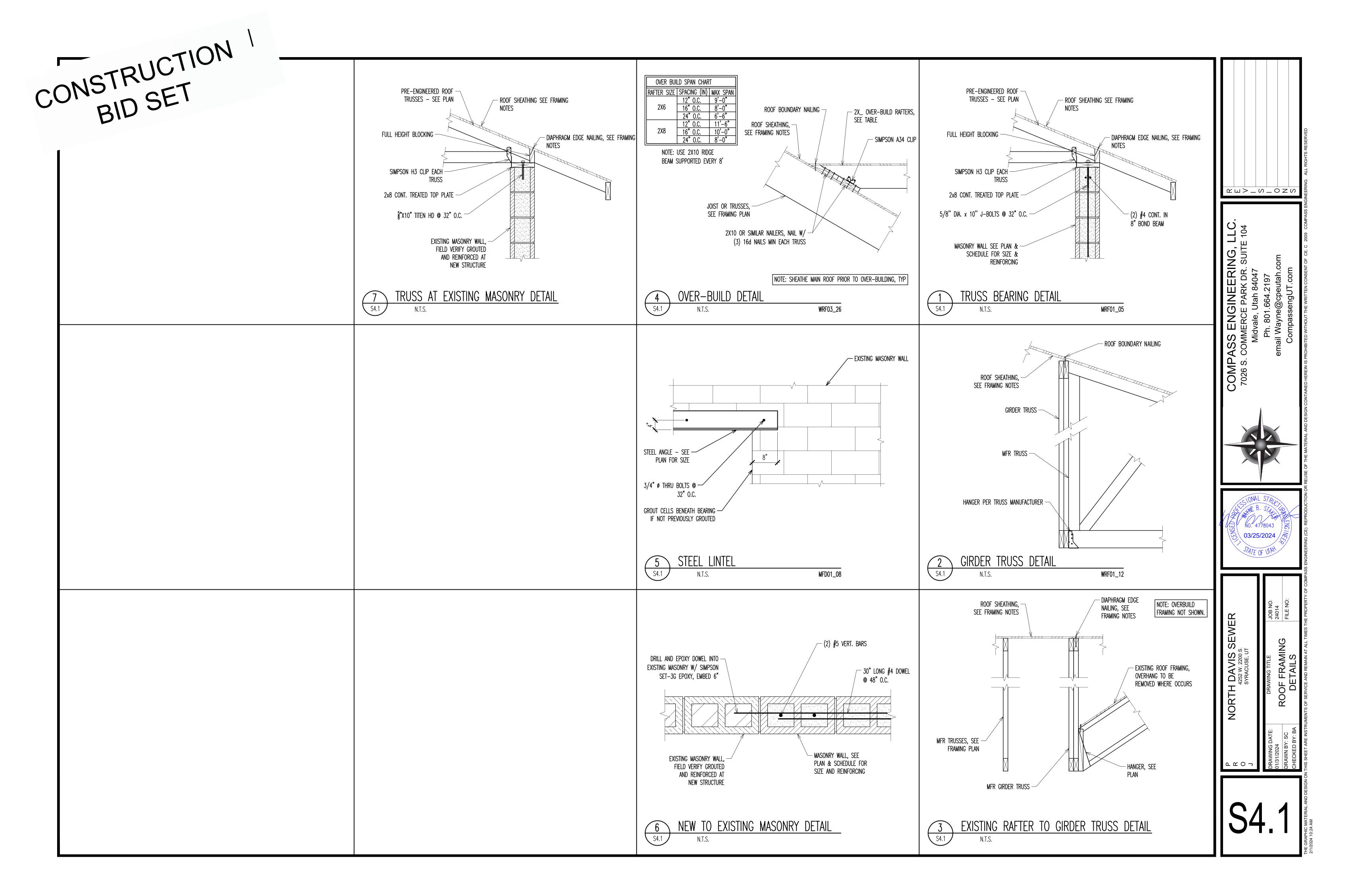


NOTE: CONTRACTOR TO VERIFY EXISTING CONDITIONS AT NEW CONSTRUCTION.

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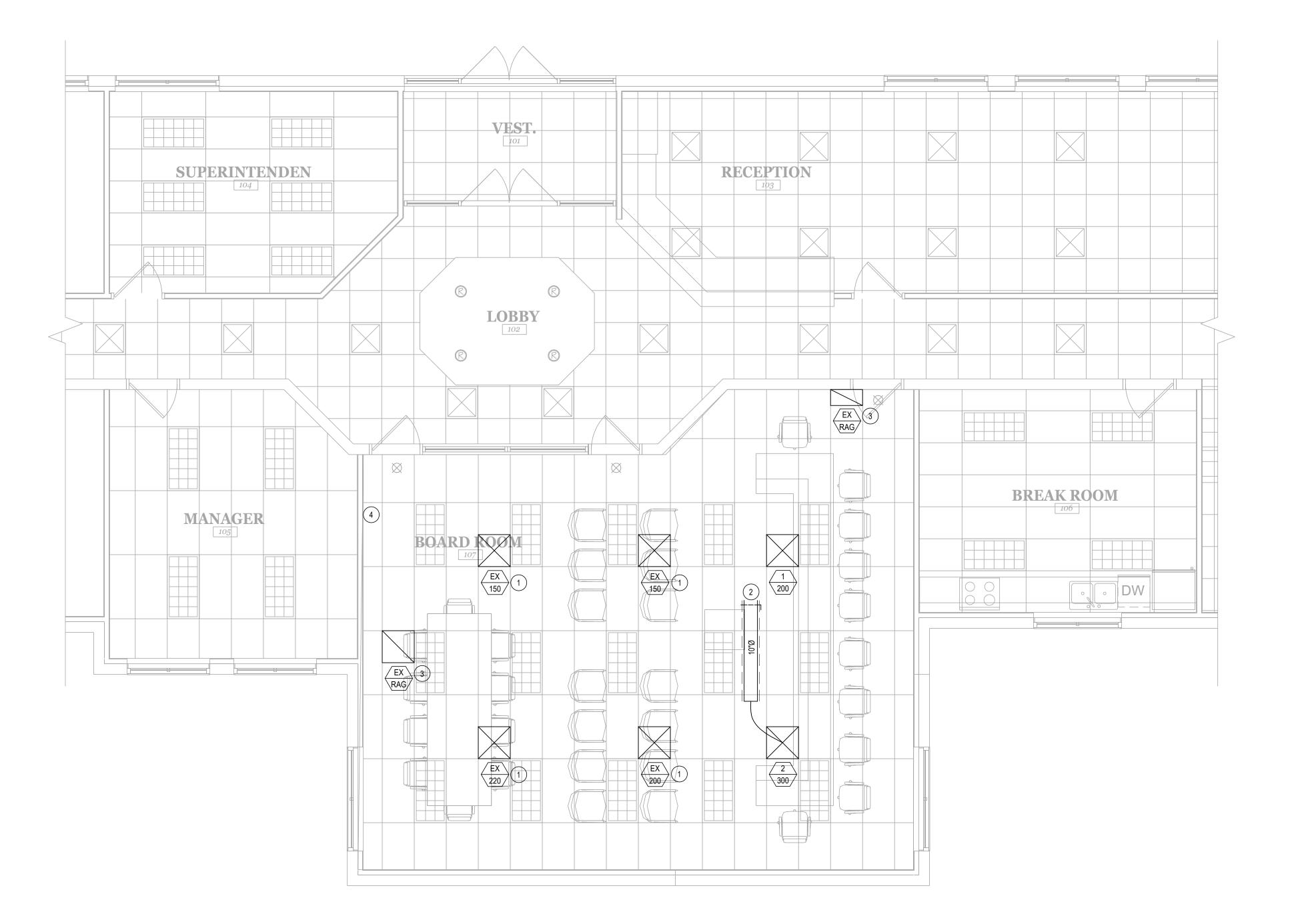






	ARDD NS			LEGE	END		DRAWING INDEX	GENERAL NOTES
AC ACCECT ONSTRUCT STRUCT ON STRUCT ON STRUCT ON STRUCT	TION	RA RETURN AIR	Z AxB	BARE SHEET METAL RECTANGULAR DUCT, 'A' AND 'B' ARE INSIDE CLEAR DIMENSIONS.	5—120° —5 5—140° —5	120° F. HOT WATER	SHEET NUMBER/DRAWING TITLE	A) THESE DRAWINGS WERE PREPARED USING THE 2021 IBC, 2021 IMC, 2021 IPC, 2021 IFGC, AND THE 2021 IECC.
CTRUC) .	RAG RETURN AIR GRILLE RD ROOF DRAIN	AxB 7	'A' IS WIDTH OF DUCT IN VIEW SHOWN. 1" LINED SHEET METAL RECTANGULAR DUCT, OR	5	OXYGEN	MECHANICAL PLANS	B) ALL INSTALLATIONS SHALL BE PER THE 2021 IBC, 2021 IMC, 2021 IPC, 2021 IFGC, AND THE 2021 IECC.
ON_2 , $C_{\mathcal{L}}$	= T	RF RELIEF AIR		1" FIBERGLASS DUCT, SEE DRAWINGS FOR TYPE, 'A' AND 'B' ARE INSIDE CLEAR DIMENSIONS.	5	VACUUM	M001 TITLE SHEET (LEGEND and ABBREVIATIONS)	C) THESE DRAWINGS ARE TO SHOW THE GENERAL CONCEPT OF THE SYSTEMS. FIELD VERIFY ALL LOCATIONS AND COORDINATE EXACT ROUTING WITH ALL
oin Si	. OVVÉRED VAV BOX	RH RELIEF HOOD RADIANT HEATER	AxB	'A' IS WIDTH OF DUCT IN VIEW SHOW. 1 1/2" WRAPPED SHEET METAL RECTANGULAR DUCT.	5—160° —5 5——∯——5	160° F. HOT WATER BUTTERFLY VALVE	M201 MECHANICAL PLAN	TRADES.
DID	FC FAN COIL UNIT	RI ROUGH-IN		'A' AND 'B' ARE INSIDE CLEAR DIMENSIONS. 'A' IS WIDTH OF DUCT IN VIEW SHOW.	şφş	BALL VALVE	M701 MECHANICAL DETAILS & SCHEDULES	D) REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES, LIGHTS, CEILING DIFFUSERS, AND FIRE SPRINKLERS.
_ GONTROL	FD FLOOR DRAIN FIRE DAMPER	RP RADIANT PANEL	A "Ø S	BARE SHEET METAL ROUND MEDIUM OR LOW	5— ₹ — 5	GATE VALVE		E) ALL DUCT SIZES LISTED IN THESE DRAWINGS ARE INSIDE CLEAR DIMENSIONS UNLESS NOTED OTHERWISE.
AV AIR ADMITTANCE VALVE	FH FIRE HYDRANT	RECIRCULATION PUMP RT ROOFTOP UNIT	<u>A"Ø</u>	PRESSURE DUCT, A"Ø IS DIAMETER. 1 1/2" WRAPPED ROUND MEDIUM OR LOW	5— ₹ 7—5	CHECK VALVE		F) SLOPE ALL HORIZONTAL SANITARY WASTE AND VENT PIPING A MINIMUM OF
AW AIR WASHER	FL FILTER	RV RELIEF VENT	<u> </u>	PRESSURE DUCT, A"Ø IS DIAMETER.	\$\$	PLUG VALVE PRV		A 1/4" PER FOOT FOR 2 1/2" AND SMALLER, 1/8" PER FOOT FOR 3" TO 6", AND 1/16" FOR 8" AND LARGER.
B BOILER	FLR FLOOR	RELIEF VALVE	<u> </u>	INSULATED ROUND FLEXIBLE DUCT, 5 FEET MAXIMUM.	>—□	2-WAY AUTO VALVE		G) SLOPE ALL HORIZONTAL ROOF DRAINAGE PIPING A MINIMUM OF A 1/8" PER FOOT UNLESS NOTED OTHERWISE.
BB BASEBOARD	FOB FLAT ON BOTTOM FOS FLAT ON SIDE	REQD REQUIRED SA SUPPLY AIR		DIRECTION OF AIRFLOW SUPPLY DUCT RISER	5—□ 5	3-WAY AUTO VALVE		H) ALL MATERIALS INSTALLED IN AN AREA ABOVE THE CEILING DESIGNATED
BDD BACKDRAFT DAMPER	FOT FLAT ON TOP	SC SELF CONTAINED UNIT	×	SUPPLY DUCT DROP	ς <u>Ψ</u> ,	THERMOMETER GAUGE		AS A RETURN AIR PLENUM MUST BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE- DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE
BFP BACKFLOW PREVENTOR	FP FIREPLACE	SD STORM DRAIN		RETURN, EXHAUST, OR OUTSIDE AIR DUCT	5—— ——5	UNION		WITH ASTM E 84.
BLD BUILDING BOD BOTTOM OF DUCT	FS FLOOR SINK	SEF SMOKE EXHAUST FAN		RISER RETURN, EXHAUST, OR OUTSIDE AIR DUCT	5 5 5	STRAINER		J) ALL UNDERGROUND DUCT SHALL SLOPE TO ALLOW DRAINAGE TO A POINT PROVIDED WITH ACCESS.
BOU BOTTOM OF UNIT	FSD FIRE/SMOKE DAMPER	SF SUPPLY FAN		DROP	<u> </u>	BALANCING VALVE RELIEF VALVE		K) PROVIDE CLEANOUTS EVERY 100 FEET ON HORIZONTAL WASTE LINES, EVERY CHANGE OF DIRECTION GREATER THAN 45°, AT THE BASE OF
BTU BRITISH THERMAL UNIT	FU FIXTURE UNIT	SP STATIC PRESSURE	5 5	ROUND DUCT DROP	\$\$	BACKFLOW PREVENTER		WASTE STACKS, AND NEAR THE POINT THE SEWER ENTERS THE BUILDING.
BTUH BRITISH THERMAL UNIT PER HOUR	GA GAUGE GC GENERAL CONTRACTOR	SPEC SPECIFICATION SS STAINLESS STEEL	5 5 5 5 1 3	ROUND DUCT RISER MANUAL VOLUME DAMPERS (SQUARE OR ROUND)	\$ \$	PIPE ANCHOR		L) SEISMIC RESTRAINTS ARE REQUIRED PER 2021 IBC. ENGINEERING AND RESTRAINT SELECTION ARE THE RESPONSIBILITY OF THE MECHANICAL AND
CA COMBUSTION AIR	GI GREASE INTERCEPTOR	SANITARY SEWER		MOTORIZED DAMPER OR FIRE/SMOKE DAMPER	5	DIRECTION OF FLOW EXPANSION JOINT		PLUMBING CONTRACTORS.
CC COOLING COIL CD CONDENSATE DRAIN	GPM GALLONS PER MINUTE	ST SOUND TRAP STD STANDARD		DUCT ACCESS DOOR	> ────────────────────────────────────	FLEXIBLE CONNECTION		M) FIRESTOPPING DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE IN CONTRACTOR.
CONSTRUCTION DOCUMENT	GRD GRADE	TAG TRANSFER AIR GRILLE	 	INTAKE LOUVER WITH BIRDSCREEN	\$ 	PIPING TEE DROP TO BELOW		N) FIRESTOPPING DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE IN CONTRACTOR.
CFH CUBIC FEET PER HOUR	GT GREASE TRAP	TOD TOP OF DUCT		EXHAUST LOUVER WITH BIRDSCREEN	C	PIPING ELBOW DROP PIPING ELBOW RISER		O) AS-BUILT DRAWINGS SHALL BE PROVIDED TO THE OWNER OR OWNERS REPRI
CFM CUBIC FEET PER MINUTE CH CHILLER	GW GREASE WASTE HB HOSE BIBB	TW THROUGH WALL UNIT		FIRE DAMPER RECTANGULAR ELBOW WITH TURNING VANES	SS- →	UNDERGROUND SANITARY SEWER		WITHIN 90 DAYS OF CERTIFICATION OF OCCUPANCY.
CHWR CHILLED WATER RETURN	HDR HEADER	TYP TYPICAL		SLOT DIFFUSER	⊱ —\$\$—→	ABOVE GROUND SANITARY SEWER		P) O&M MANUALS FOR THE PROJECT SHALL BE PROVIDED TO THE OWNER OR O' REPRESENTATIVE WITHIN 90 DAYS OF CERTIFICATION OF OCCUPANCY AND THE FOLLOWING ITEMS: EQUIPMENT SUBMITTALS, MANUFACTURES O&M'S.
CHWS CHILLED WATER SUPPLY	HE HEAT EXCHANGER	UH UNIT HEATER		SQUARE DIFFUSER	\$\$	UNDERGROUND COLD WATER		ADDRESS OF AT LEAST ONE SERVICE AGENCY, HVAC AND SERVICE HOT WA CONTROLS MAINTENANCE AND CALIBRATION INFORMATION, AND A NARRAT
CI CAST IRON	HP HEAT PUMP	UR URINAL VAV VARIABLE AIR VOLUME		DUCT MOUNTED GRILLE (RECTANGULAR)	<u> </u>	UNDERGROUND HOT WATER (120° F.) ABOVE GROUND COLD WATER		EACH PIECE OF EQUIPMENT IS TO OPERATE INCLUDING SETPOINTS. Q) PROVIDE AIR AND WATER BALANCING REPORTS TO BUILDING INSPECTOR PRI
CL CENTER LINE	HTR HEATER	VB VACUUM BREAKER		BARE SHEET METAL ROUND MEDIUM OR LOW	ss	ABOVE GROUND HOT WATER		INSPECTION.
CLG CEILING CLR CLEAR	HU HUMIDIFIER HVAC HEATING, VENTILATING & AIR CONDITIONING	VAV BOX VTR VENT THROUGH ROOF		ROUND DIFFUSER 24x24 RETURN AIR GRILLE	5 	HOSE BIBB		R) PIPE EXPANSION JOINTS IN THE VERTICAL RISERS AND HORIZONTAL RUNS AF RESPONSIBILITY OF THE INSTALLING CONTRACTOR. FOLLOW THE INSTALLA
CO CLEAN OUT	HW HOT WATER	W/ WITH		24x24 RETURN AIR GRILLE 24x12 RETURN AIR GRILLE	⊱−SS−⊜ ⊱−SS−⊠	FLOOR DRAIN FLOOR SINK		RECOMMENDATIONS FOR EACH PIPE MANUFACTURE. EXPANSION JOINTS SI DRAWINGS ARE MINIMUM REQUIREMENTS AND WILL VARY BASED ON ACTU/ ROUTING. IF DESIGN ASSISTANCE IS NEEDED PLEASE CONTACT JTB.
CONN CONNECTION	HWR HOT WATER RETURN	WA WATER HAMMER ARRESTOR		THERMOSTAT OR SENSOR	ď,	FIRE HYDRANT		NOUTING. II DEGIGN AGGISTANGE IS NEEDED TELAGE CONTACT STB.
CP CIRCULATING PUMP	HWS HOT WATER SUPPLY	WB WET BULB	S	SWITCH	5—1 <u>0</u> 1—5	GLOBE VALVE		
CR CONDENSATE RETURN	IE INVERT ELEVATION	WC WATER CLOSET	H	HUMIDITY SENSOR	у ф <u></u>	CONNECTION OFF SIDE CONNECTION OFF BOTTOM		
CT COOLING TOWER CU CONDENSING UNIT	IH INTAKE HOOD INSUL INSULATION	WH WATER HEATER		CLEAN OUT COMPRESSED AIR	s—ti——s	CONNECTION OFF TOP		
COPPER	L LOUVER		5—CD—5	CONDENSATE DRAIN	\$ \	WATER HAMMER ARRESTER		
CW COLD WATER	LAT LEAVING AIR TEMPERATURE		5CR5	CONDENSATE RETURN	}	CAPPED END		
CWR CONDENSER WATER RETURN CWS CONDENSER WATER SUPPLY	LAV LAVATORY		⊱—CWR—	CONDENSER WATER RETURN				PROFESS ₁₀
DA DILUTION AIR	LPG LIQUEFIED PETROLEUM GAS		⊱—CWS—	CONDENSER WATER SUPPLY				JEFF T.
DB DRY BULB	MAX MAXIMUM MBH THOUSAND BTU PER HOUR		S—CHWR—S S—CHWS—S	CHILLED WATER RETURN CHILLED WATER SUPPLY				#264382 BROWN
DCW DOMESTIC COLD WATER	MC MECHANICAL CONTRACTOR		5—CΠW3—5	HOT WATER RECIRCULATION LINE				OPATE OF UNKIND
DF DRINKING FOUNTAIN DUCT FURNACE	MD MANUAL DAMPER		⊱—HWR—s	HOT WATER RETURN				
DESTRATIFICATION FAN DOWN FLOW	MECH MECHANICAL		⊱—HWS—÷	HOT WATER SUPPLY				PERMIT SET
DFU DRAINAGE FIXTURE UNIT	MH MANHOLE		⊱— G —	NATURAL GAS				REV. DATE DESCRIPTION
DH DUCT HEATER DHW DOMESTIC HOT WATER	MIN MINIMUM MU MAKE-UP AIR UNIT		—————————————————————————————————————	OVERFLOW ROOF DRAIN ROOF DRAIN				
DIA DIAMETER	NATGAS NATURAL GAS		5— S — 5	STEAM				
DM DAMPER	NIC NOT IN CONTRACT		⊱—SCW—	SOFT COLD WATER				
DN DOWN	NTS NOT TO SCALE		⊱—SHW—∻	SOFT HOT WATER				A 3/14/2024 PERMIT SET
DWG DRAWING	OA OUTSIDE AIR		5V5	VENT LINE				
EA EXHAUST AIR	OC ON CENTER		⊱ VTR	VENT THROUGH ROOF				JTB HVAC & Plun
EAT ENTERING AIR TEMPERATURE EC ELECTRICAL CONTRACTOR	OCEW ON CENTER EACH WAY ORD OVERFLOW ROOF DRAIN							Engineering, 922 W. Baxter Drive, S
EVAPORATIVE COOLER	P PUMP							South Jordan, UT JTBEngineering.net - (801)
EF EXHAUST FAN EH ELECTRIC HEATER	PH PENT HOUSE							ANNIVERSARY
EXHAUST HOSE	PRV PRESSURE REDUCING VALVE				MATE	RIAL SPECIFIC	CATIONS	PROJECT NAME:
EL ELEVATION EQ EQUIPMENT	P&TV PRESSURE & TEMPERATURE RELIEF VALVE PSI POUNDS PER SQUARE INCH	MECHANICAL OFFICIOATIONS (""	ESS MOTED OTHERWISE OF	(PLANS)	141/ 1 1			NORTH DAVIS SEWER DISTR
ESP EXTERNAL STATIC PRESSURE	PVC POLYVINYL CHLORIDE	MECHANICAL SPECIFICATIONS (UN LOW PRESSURE RECTANGULAR DUC			TANGIII AR)			ADMINISTRATION BLD. ADDI
EW EMERGENCY EYE WASH	QD QUICK DISCONNECT	SUPPLY DUCT - SINGLE WALL SH RETURN DUCT - SINGLE WALL SH	- EET METAL WITH 1" LINER.	BELOW GRADE DUCT (ROUND OR RECTA SUPPLY DUCT - SINGLE WALL SHEE RETURN DUCT - SINGLE WALL SHEI	ET METAL WITH PVS COATING.			ADDRESS 4252 W 2200 S
		EXHAUST DUCT - SINGLE WALL S OUTSIDE AIR DUCT - SINGLE WA	HEET METAL.		10 00/11110.			SYRACUSE, UT 84075
		LOW PRESSURE ROUND DUCT		SINGLE WALL - ALUMINUM SINGLE V DOUBLE WALL - ALUMINUM B-VENT	•	CATIONS).		DRAWING TITLE: TITLE
		SUPPLY DUCT - SINGLE WALL SH		ATION WRAP.	. T II E.			SHEET
		EXHAUST DUCT - SINGLE WALL SE EXHAUST DUCT - SINGLE WALL SE COMBUSTION AIR DUCT - SINGLE	HEET METAL.	HOR WINE.				JOB NO.: 24.021 SHEET NUMBER
		OUTSIDE AIR DUCT - SINGLE WA		SULATION WRAP.				DATE: 3/14/2024 DRAWN BY: JCZ SCALE: NONE
								SCALE: NONE

CONSTRUCTION CONSTRUCTION BID SET



MECHANICAL PLAN

SCALE: 1/4" = 1'-0" 0 1' 2' 4' 8'



KEYED NOTES

(1) EXISTING DIFFUSER

(2) CONNECT TO EXISTING DUCT

3 EXISTING RETURN GRILLE

4 EXISTING THERMOSTAT

PERMIT SET

REV.	DATE	DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
Α	3/14/2024	PERMIT SET



PROJECT NAME:

NORTH DAVIS SEWER DISTRICT ADMINISTRATION BLD. ADDITION

ADDRESS 4252 W 2200 S SYRACUSE, UT 84075

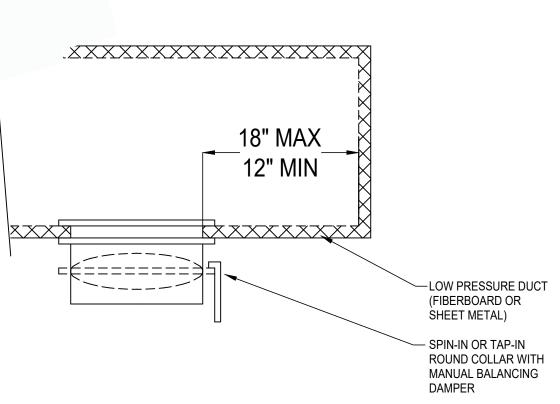
DRAWING TITLE:

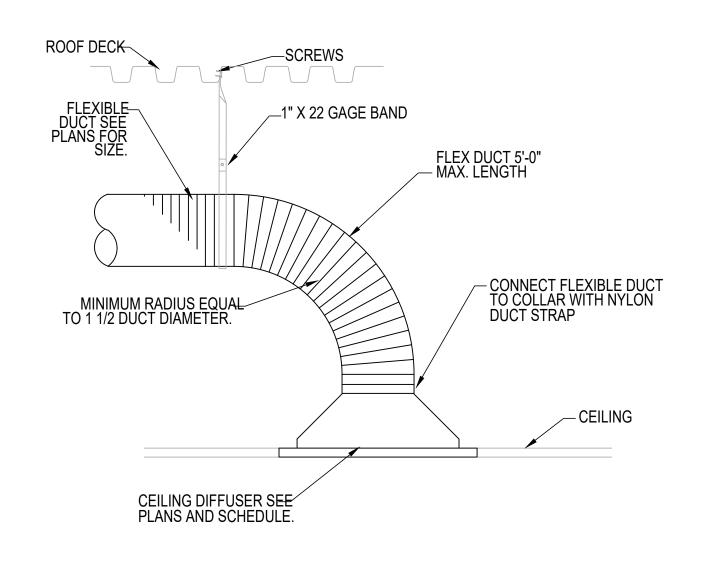
MECHANICAL

PLAN

JOB NO.:	24.021	SHEET NUMBER
DATE:	3/14/2024	
DRAWN BY:	JCZ	IM 7(1)
SCALE.	1/4" = 1'-0"	1 1201

CONSTRUCTION CONSTRUCTION BID SET



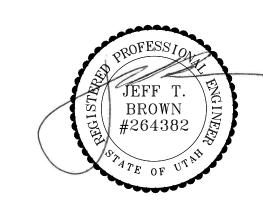


SPIN-IN DAMPER DETAIL

NTS

B CEILING MOUNTED DIFFUSER DETAIL

			REC	GISTE	ER, G	RILL	E, AN	D DI	FFUSER SCHEDULE	
TAG	RGD MOUNTING LOCATION RGD USE	RGD BORDER SIZE INCHES	RGD NECK SIZE INCHES	RGD FACE STYLE	CEILING TYPE	RGD AIR PATTERN	RGD CONNECTION SIZE INCHES	RGD FINISH COLOR	OPTIONS AND ACCESSORIES	RGD MANUFACTURER MODEL NUMBER
1	CEILING MOUNTED SUPPLY AIR	24x24	8"Ø	LOUVER	T- BAR	4 WAY	8"Ø	WHITE	-	ANEMOSTAT EPL
2	CEILING MOUNTED SUPPLY AIR	24x24	10"Ø	LOUVER	T- BAR	4 WAY	10"Ø	WHITE	-	ANEMOSTAT EPL



PERMIT SET

REV.	DATE	DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
Α	3/14/2024	PERMIT SET



PROJECT NAME:

NORTH DAVIS SEWER DISTRICT ADMINISTRATION BLD. ADDITION

ADDRESS 4252 W 2200 S SYRACUSE, UT 84075

DRAWING TITLE:

MECHANICAL

DETAILS & SCHEDULES

JOB NO.:	24.021	SHEET NUMBER
DATE:	3/14/2024	N 1 7 0 1
DRAWN BY:	JCZ	
SCALE:	NTS	11701

SYMBOL	DESCRIPTION
SWITCHES	
\$	SINGLE POLE SWITCH
\$2	TWO POLE SWITCH
\$3	THREE WAY SWITCH
\$4	FOUR WAY SWITCH
\$	DIMMER SWITCH (PROVIDE DIMMER COMPATIBLE WITH LIGHT(S) BEING CONTROLLED)
\$80	DIMMER THREE WAY SWITCH (PROVIDE DIMMER COMPATIBLE WITH LIGHT(S) BEING CONTROLLED)
\$ _M	MASTER OVERRIDE SWITCH
\$тм	ELECTRIC TIMER SWITCH
\$-	SWITCH WITH RED PILOT LIGHT IN HANDLE
\$ _{MS}	MANUAL MOTOR STARTER WITH HEATER ELEMENTS
\$os	WALL MOUNTED OCCUPANCY SENSOR SWITCH (DUAL TECHNOLOGY)
\$vs	WALL MOUNTED VACANCY SENSOR SWITCH (DUAL TECHNOLOGY)
<u></u>	CEILING MOUNTED OCCUPANCY SENSOR (DUAL TECHNOLOGY)
(%)	CEILING MOUNTED VACANCY SENSOR (DUAL TECHNOLOGY)
<u> </u>	DAYLIGHT SENSOR (CLOSED LOOP)
PP	POWER PACK FOR OCCUPANCY / VACANCY / DAYLIGHT SENSOR MOUNTED IN ACCESSIBLE CEILIN
RC	PROGRAMMABLE LIGHTING ROOM CONTROLLER
<u>@</u>	PHOTOCELL SENSOR
POWER RECEPTAC	LES & DEVICES
Ф	SINGLE RECEPTACLE
ф	DUPLEX RECEPTACLE
Фс	RECEPTACLE MOUNTED ABOVE COUNTER (COORDINATE WITH ARCHITECTURAL DRAWINGS)
	HALF SWITCH RECEPTACLE (LABEL ON FACE PLATE FOR EACH OUTLET)
#	DOUBLE DUPLEX RECEPTACLE
Ф ЕМС	ELECTRIC WATER COOLER GFCI RECEPTACLE (COORDINATE WITH PLUMBING CONTRACTOR)
ф _{GFCI}	GROUND FAULT CURRENT INTERRUPTER DUPLEX RECEPTACLE.
₩ _{MP}	GROUND FAULT CURRENT INTERRUPTER DUPLEX RECEPTACLE IN WEATHER PROOF ENCLOSURE
⊕ GFCI ⊕ _{IG}	ISOLATED GROUND DUPLEX RECEPTACLE
	SPECIAL PURPOSE OUTLET (TYPE SPECIFIED IN CD)
•	SPECIAL PURPOSE OUTLET (TYPE SPECIFIED IN CD)
<u>[ф]</u>	POWER RECEPTACLE LOCATED IN FLOOR (TYPE SPECIFIED IN CD)
<u></u>	POWER RECEPTACLE LOCATED IN CEILING
₽~~	WALL FURNITURE CONNECTION (USE SEALTIGHT FROM WALL TO FURNITURE)
@\~	FLOOR FURNITURE CONNECTION (USE SEALTIGHT TO FURNITURE, TYPE SPECIFIED IN CD)
<u> </u>	CEILING FURNITURE CONNECTION (POLE PROVIDED BY FURNITURE VENDOR UNO)
TELECOMMUNICATI	DN DEVICES
▼	VOICE OUTLET (# INDICATES THE NUMBER OF CAT6 CABLES)
	DATA OUTLET (# INDICATES THE NUMBER OF CAT6 CABLES)
	VOICE & DATA OUTLET (#/# INDICATES THE NUMBER OF CAT6 CABLES FOR VOICE / DATA)
<u> </u>	COAX OUTLET (# INDICATES THE NUMBER OF RG6 CABLES)
▼	SPECIAL OUTLET (TYPE SPECIFIED IN CONSTRUCTION DOCUMENTS)
<u> </u>	TELECOMMUNICATION OUTLET LOCATED IN FLOOR
<u> </u>	TELECOMMUNICATION OUTLET LOCATED IN CEILING
	WALL FURNITURE CONNECTION (USE SEALTIGHT FROM WALL TO FURNITURE)
: W TV V	FLOOR FURNITURE CONNECTION (USE SEALTIGHT TO FURNITURE, TYPE SPECIFIED IN CD)

ELECTRICAL DEVICE SYMBOL SCHEDULE

ELECTRICAL L	LIGHTING SYMBOL SCHEDULE
SYMBOL	DESCRIPTION
LUMINAIRES (SEE LI	GHT FIXTURE SCHEDULE FOR ADDITIONAL DETAILS)
\bigcirc \triangle \square \square	LUMINAIRES (APPROXIMATE SHAPE AND SIZED FOR CLARITY)
\$ I	STRIP, NEON AND FIBER OPTIC LUMINAIRES
\otimes	EXIT SIGN (NUMBER OF FACES (SHADED) AND ARROW(S) AS SHOWN
4	EMERGENCY LIGHT WITH BATTERY PACK
LUMINAIRE MOUNTIN	G
000	RECESSED LUMINAIRES
•••	SUSPENDED LUMINAIRES
QДД	WALL MOUNTED LUMINAIRES
0000	POLE TOP MOUNTED LUMINAIRES (ROUND OR SQUARE POLE)
ÒŮÒŮ	POLE WITH ARM MOUNTED LUMINAIRES (ROUND OR SQUARE POLE)
	GROUND OR FLOOR MOUNTED LUMINAIRES
000	TRACK MOUNTED (LENGTH DRAWN TO SCALE, LUMINAIRE TYPES AND QUANTITIES AS SHOWN)
LUMINAIRE OPTIC O	RIENTATION
Q I I	HORIZONTAL ZERO LINE
$\bigcirc\bigcirc\bigcirc\bigcirc$	PRIMARY LUMINAIRE ORIENTATION
O	DIRECTIONAL AIMING LINE (FROM PHOTOMETRIC CENTER TO TARGET)
LUMINAIRE ANNOTAT	ION
	LUMINAIRES THAT PROVIDE EMERGENCY ILLUMINATION
	LUMINAIRES THAT PROVIDE EMERGENCY ILLUMINATION
O _{NL} \square_{NL}	LUMINAIRES THAT PROVIDE NIGHT LIGHT ILLUMINATION
Q +48"	MOUNTING HEIGHT
	LUMINAIRE TAG (# INDICATES THE NUMBER OF LUMINAIRES IN THE AREA, ESTIMATE ONLY)
O _a □ _b	LOWER CASE SUBSCRIPT INDICATES SWITCH IDENTIFICATION

UPPER CASE SUBSCRIPT INDICATES CIRCUIT IDENTIFICATION

 \square 4

FIRE SPRINKLER DEVICES (F.&I.B.O.)

FIRE ALARM HORN

FIRE ALARM STROBE

DESCRIPTION

COMBINATION STARTER

CONTACTOR - SELF-ENCLOSED

MOTOR AND EQUIPMENT HOOK-UP

XXAF XXAT STYLE SIZE FIRE ALARM HORN STROBE

FIRE SPRINKLER FLOW SWITCH

FIRE SPRINKLER TAMPER SWITCH

FIRE SPRINKLER PRESSURE SWITCH

ELECTRICAL MOTOR AND EQUIPMENT HOOK-UP SYMBOL SCHEDULE

DISCONNECT SWITCH (NON-FUSIBLE) (AF = FRAME SIZE)

MAGNETIC STARTER (STYLE = FVNR, FVR, AFD, ETC)

DISCONNECT SWITCH (FUSIBLE) (AF = FRAME SIZE, AT = TRIP SETTING)

DISCONNECT SWITCH (CIRCUIT BREAKER) (AF = FRAME SIZE, AT = TRIP SETTING)

ELECTRIC MOTOR HOOK-UP (FURNISHED AND INSTALLED BY OTHERS UNLESS NOTED OTHERWISE)

ELECTRIC EQUIPMENT HOOK-UP (JUNCTION BOX WITH FLEXIBLE CONDUIT, STEEL OR SEALTIGHT)

LECTRICAL	ANNOTATION SYMBOL SCHEDULE	<u>E</u> l
SYMBOL	DESCRIPTION	1.
		2.
ACEWAY AND CON		
	ONE CIRCUIT, 2#12 THWN (CU), 1#12 THWN (CU) GND	3.
 	TWO CIRCUITS (SHARED NEUTRAL), 3#12 THWN (CU), 1#12 THWN (CU) GND	
 	THREE CIRCUITS (SHARED NEUTRAL), 4#12 THWN (CU), 1#12 THWN (CU) GND	4.
#10	THREE CIRCUITS (SHARED NEUTRAL), 4#10 THWN (CU), 1#10 THWN (CU) GND	5.
 	ONE CIRCUIT, 2#12 THWN (CU), 1#12 THWN (CU) GROUND, 1#12 THWN (CU) ISO GND	
 	TWO CIRCUITS (DEDICATE NEUTRALS), 4#12 THWN (CU), 1#12 THWN (CU) GND	6.
 	THREE CIRCUITS (DEDICATE NEUTRALS), 6#12 THWN (CU), 1#12 THWN (CU) GND	
<u> </u>	ELECTRICAL JUNCTION BOX (SIZE PER NFPA 70)	7.
	RACEWAY AND/OR CONDUCTORS CONCEALED BELOW FLOOR OR BELOW FINISHED GRADE	8.
<u>-^</u>	FLEXIBLE CONDUIT, STEEL OR SEALTIGHT	
BBREVIATIONS		9.
F.B.O.	FURNISHED BY OTHERS	
F.&I.B.O.	FURNISHED & INSTALLED BY OTHERS	
F.V.M.H.	FIELD VERIFY MOUNTING HEIGHT	
A/R	AS REQUIRED	
N/A	NOT APPLICABLE OR NOT AVAILABLE	
W	MOUNT 48" FROM THE FINISHED FLOOR TO THE CENTER OF DEVICE	
С	MOUNT COUNTER HEIGHT (FIELD VERIFY MOUNTING HEIGHT)	
CD	CONSTRUCTION DOCUMENT(S)	
CU	COPPER	
AL	ALUMINUM	13
WP	WEATHERPROOF	
NL	NIGHTLIGHT	14
Е	EMERGENCY	
ISO	ISOLATED	
GND	GROUND	
UNO	UNLESS NOTED OTHERWISE	
(D)	TO BE REMOVED OR DEMOLISHED	
(E)	TO REMAIN OR EXISTING	
(M)	TO BE MOVED OR RELOCATED	
(N)	NEW	
(V)	TO BE PROVIDE BY VENDOR	
(0)	TO BE PROVIDE BY OWNER	
		''
LECTRICAL	FIRE ALARM SYMBOL SCHEDULE	20
	DESCRIPTION	
SYMBOL		
	FIRE ALARM CONTROL PANEL	
ANELS		21
ANELS FACP	FIRE ALARM CONTROL PANEL	21
ANELS FACP FARD	FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE DISPLAY	
ANELS [FACP] [FARD] [FART]	FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE DISPLAY FIRE ALARM REMOTE TERMINAL	
FACP FARD FARTI NAC EAMP	FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE DISPLAY FIRE ALARM REMOTE TERMINAL FIRE ALARM NOTIFICATION POWER SUPPLY FIRE ALARM AMPLIFIER POWER SUPPLY	
FACP FARD FARTI NAC EAMP	FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE DISPLAY FIRE ALARM REMOTE TERMINAL FIRE ALARM NOTIFICATION POWER SUPPLY FIRE ALARM AMPLIFIER POWER SUPPLY	22
ANELS FACP FARD FART NAC CAMP DDRESSABLE MOD	FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE DISPLAY FIRE ALARM REMOTE TERMINAL FIRE ALARM NOTIFICATION POWER SUPPLY FIRE ALARM AMPLIFIER POWER SUPPLY JLES	22
ANELS FACP FARD FARTI NACI AMPI DDRESSABLE MOD	FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE DISPLAY FIRE ALARM REMOTE TERMINAL FIRE ALARM NOTIFICATION POWER SUPPLY FIRE ALARM AMPLIFIER POWER SUPPLY JLES FIRE ALARM MANUAL PULL STATION	22
ANELS FACP FARD FART NAC CAMP DDRESSABLE MOD FI	FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE DISPLAY FIRE ALARM REMOTE TERMINAL FIRE ALARM NOTIFICATION POWER SUPPLY FIRE ALARM AMPLIFIER POWER SUPPLY JLES FIRE ALARM MANUAL PULL STATION FIRE ALARM MONITOR MODULE	22
ANELS FACP FARD FART NAC CAMP DDRESSABLE MOD EI MM RMI	FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE DISPLAY FIRE ALARM REMOTE TERMINAL FIRE ALARM NOTIFICATION POWER SUPPLY FIRE ALARM AMPLIFIER POWER SUPPLY JLES FIRE ALARM MANUAL PULL STATION FIRE ALARM MONITOR MODULE FIRE ALARM RELAY MODULE	22
ANELS FACP FARD FART NAC LAMP DDRESSABLE MOD E MM RM CPM	FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE DISPLAY FIRE ALARM REMOTE TERMINAL FIRE ALARM NOTIFICATION POWER SUPPLY FIRE ALARM AMPLIFIER POWER SUPPLY JLES FIRE ALARM MANUAL PULL STATION FIRE ALARM MONITOR MODULE FIRE ALARM RELAY MODULE FIRE ALARM CONTROL POINT MODULE	21
ANELS FACP FARD FARTI NAC CAMP DDRESSABLE MOD EI MM EM CPM CZM	FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE DISPLAY FIRE ALARM REMOTE TERMINAL FIRE ALARM NOTIFICATION POWER SUPPLY FIRE ALARM AMPLIFIER POWER SUPPLY JLES FIRE ALARM MANUAL PULL STATION FIRE ALARM MONITOR MODULE FIRE ALARM RELAY MODULE FIRE ALARM CONTROL POINT MODULE FIRE ALARM CONVENTIONAL ZONE MODULE	22
ANELS FACP FARD FART NAC LAMP DDRESSABLE MOD EI MM EM CPM CZM LIM LIM (R)	FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE DISPLAY FIRE ALARM REMOTE TERMINAL FIRE ALARM NOTIFICATION POWER SUPPLY FIRE ALARM AMPLIFIER POWER SUPPLY JLES FIRE ALARM MANUAL PULL STATION FIRE ALARM MONITOR MODULE FIRE ALARM RELAY MODULE FIRE ALARM CONTROL POINT MODULE FIRE ALARM CONVENTIONAL ZONE MODULE FIRE ALARM CONVENTIONAL ZONE MODULE FIRE ALARM LINE ISOLATION MODULE	22
ANELS FACP FARD FART NAC AMP DDRESSABLE MOD E MM CPM CZM LIM 2	FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE DISPLAY FIRE ALARM REMOTE TERMINAL FIRE ALARM NOTIFICATION POWER SUPPLY FIRE ALARM AMPLIFIER POWER SUPPLY JLES FIRE ALARM MANUAL PULL STATION FIRE ALARM MONITOR MODULE FIRE ALARM RELAY MODULE FIRE ALARM CONTROL POINT MODULE FIRE ALARM CONVENTIONAL ZONE MODULE FIRE ALARM LINE ISOLATION MODULE FIRE ALARM SMOKE DETECTOR	22
ANELS FACP FARD FART NAC LAMP DDRESSABLE MOD EI MM EM CPM CZM LIM LIM (E)	FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE DISPLAY FIRE ALARM REMOTE TERMINAL FIRE ALARM NOTIFICATION POWER SUPPLY FIRE ALARM AMPLIFIER POWER SUPPLY JLES FIRE ALARM MANUAL PULL STATION FIRE ALARM MONITOR MODULE FIRE ALARM RELAY MODULE FIRE ALARM CONTROL POINT MODULE FIRE ALARM CONVENTIONAL ZONE MODULE FIRE ALARM LINE ISOLATION MODULE FIRE ALARM SMOKE DETECTOR	22

ELECTRICAL GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH ALL LOCALLY ADOPTED BUILDING CODES AND REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS, SHOP DRAWINGS, SUBMITTALS, ETC. PRIOR TO ROUGH—IN AND SHALL IMMEDIATELY NOTIFY THE OWNER, ARCHITECT AND ENGINEER OF ANY DISCREPANCIES.
- 3. THE CONTRACTOR SHALL BE EXPERIENCED IN THE TYPE OF CONSTRUCTION AND WITH THE MATERIALS AND SYSTEMS SPECIFIED.
- 4. THE CONTRACTOR SHALL BE FAMILIAR WITH THE EXISTING SITE CONDITIONS.
- 5. ALL ALTERNATES MUST BE APPROVED BY ENGINEER PRIOR TO BID DATE INCLUDING ANY EQUIPMENT THAT HAS BEEN NOTED WITH A "OR EQUIVALENT" STATEMENT. PROPOSED ALTERNATES MUST BE SUBMITTED TO ENGINEER AT LEAST ONE WEEK PRIOR TO BID DATE TO BE CONSIDERED.
- THE CONTRACTOR SHALL COORDINATE ALL UTILITIES PRIOR TO ROUGH—IN AND SHALL IMMEDIATELY NOTIFY THE OWNER, ARCHITECT AND ENGINEER OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL PROVIDE ALL UTILITY VAULTS & PADS AS REQUIRED BY THE UTILITY COMPANY UNLESS NOTED OTHERWISE.
- ALL MV SWITCHGEAR, SECTIONALIZING CABINETS AND MV TO LV STEP DOWN TRANSFORMERS
- SHALL BE PROVIDED AND INSTALLED BY THE UTILITY COMPANY UNLESS NOTED OTHERWISE.

 9. ALL MV CABLE SHALL BE PROVIDED AND INSTALLED BY THE UTILITY COMPANY UNLESS NOTED
- D. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS PRIOR TO ROUGH—IN AND SHALL IMMEDIATELY NOTIFY THE OWNER, ARCHITECT AND ENGINEER OF ANY DISCREPANCIES. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL FOR ALL ELECTRICAL, TELECOMMUNICATION AND OTHER ROOMS AS NOTED, SHOWING THE LAYOUT OF THE ELECTRICAL, TELECOMMUNICATION AND/OR SYSTEMS EQUIPMENT USING ACTUAL EQUIPMENT DIMENSIONS AND REQUIRED CLEARANCES FOR PROPER OPERATION AND MAINTENANCE OF THE EQUIPMENT.
- 11. THE CONTRACTOR SHALL USE COPPER CONDUCTORS UNLESS NOTED OTHERWISE.
- 12. THE CONTRACTOR SHALL USE A PVC SCHEDULE 40 CONDUIT RACEWAY SYSTEM WITH RIDGED STEEL ELBOWS FOR ALL UNDERGROUND RACEWAY. LARGE RADIUS ELBOWS WILL BE REQUIRED ON ALL CONDUITS 1" AND LARGER. LARGE RADIUS FIBERGLASS ELBOWS ARE ACCEPTABLE ON UTILITY UNDERGROUND CONDUITS WHERE APPROVED BY THE LOCAL UTILITY. THE CONTRACTOR SHALL USE A MINIMUM OF 1" CONDUIT FOR ALL UNDERGROUND RACEWAY EXTENDING BEYOND THE ENVELOP OF THE BUILDING UNLESS NOTED OTHERWISE.
- 13. THE CONTRACTOR SHALL USE A EMT CONDUIT RACEWAY SYSTEM IN ALL INTERIOR EXPOSED AREAS AND ON THE HOME RUNS IN CONCEALED AREAS. THE CONTRACTOR SHALL USE A MINIMUM SIZE OF 0.75" CONDUIT UNLESS NOTED OTHERWISE.
- 14. THE CONTRACTOR SHALL BE PERMITTED TO USE MC CABLE AFTER THE FIRST BOX IN CONCEALED AREAS. ALSO IN EXPOSED AREAS THE CONTRACTOR SHALL BE PERMITTED TO USE MC CABLE FOR LIGHT FIXTURE WHIPS WHERE THE MC CABLE DOES NOT EXCEED 6'-0", UNLESS NOTED OTHERWISE
- 15. IN WAREHOUSE AREAS THE CONTRACTOR CAN USE MC CABLE ABOVE 15'-0" UNLESS NOTED OTHERWISE. RUNS MUST BE MADE SQUARE TO THE BUILDING AND INSTALLED IN A NEAT AND WORKMEN LIKE MANOR.
- 6. THE CONTRACTOR SHALL BE PERMITTED TO USE LIQUIDTIGHT FLEXIBLE METAL CONDUIT IN EXPOSED AREAS FOR FURNITURE OR MOTOR HOOK—UP WHERE THE LIQUIDTIGHT FLEXIBLE METAL CONDUIT DOES NOT EXCEED 6'—O" UNLESS NOTED OTHERWISE.
- 17. THE CONTRACTOR SHALL BE PERMITTED TO USE FLEXIBLE METAL CONDUIT IN EXPOSED AREAS FOR MOTOR AND TRANSFORMER HOOK—UP WHERE THE FLEXIBLE METAL CONDUIT DOES NOT NOT EXCEED 6'-0" UNLESS NOTED OTHERWISE.
- 18. THE CONTRACTOR SHALL SEAL ALL RACEWAY PENETRATIONS OF THE BUILDING EXTERIOR WITH AN APPROVED METHOD FOR THE TYPE OF MATERIAL BEING PENETRATED AND MAINTAIN THE
- D. THE CONTRACTOR SHALL MAINTAIN ALL FLOOR, WALL AND CEILING FIRE RATINGS. BOXES, RACEWAY, DEVICES, LIGHT FIXTURES, ETC. THAT PENETRATE FIRE RATED FLOORS, WALLS AND CEILINGS SHALL BE SEALED WITH AN APPROVED LISTED MATERIAL TO MAINTAIN THE FIRE RATING OF THE FLOORS, WALLS AND CEILINGS.
- CONTRACTOR SHALL USED THE FOLLOWING COLOR CODING SCHEME FOR ALL CONDUCTORS: SYSTEM PHASE A PHASE B PHASE C NEUTRAL GROUND**)/277V, 3ø, 4W BROWN ORANGE YELLOW GRAY GREEN ORANGE N/A GREEN OV, 3ø, 3W BROWN YELLOW DV, 3ø, 3W BLACK RED BLUE GREEN WHITE /120V, 1ø, 3W BLACK RED N/A GREEN 0/120V, 3ø, 4W BLACK ORANGE* BLUE GREEN WHITE 3/120V, 3ø, 4W BLACK RED BLUE GREEN HASE B SHALL BE WIRED AS THE HIGH-LEG. ALL ISOLATED GROUND CONDUCTORS SHALL BE GREEN WITH A YELLOW STRIPE.
- 21. THE CONTRACTOR SHALL VERIFY ALL VOLTAGE DROP CALCULATIONS BASED ON THE ACTUAL ROUTE OF THE CONDUCTOR(S) AND IF NEEDED FURNISH AND INSTALL LARGER WIRE TO MEET THE FOLLOWING REQUIREMENTS. MAXIMUM VOLTAGE DROP ALLOWANCE ON FEEDERS IS 2%, MAXIMUM VOLTAGE DROP ON BRANCH CIRCUITS IS 3%. IF APPROVED BY THE ENGINEER A COMBINED VOLTAGE DROP OF 5% FOR THE FEEDER AND BRANCH CIRCUIT CAN BE USED.
- 22. THE CONTRACTOR SHALL PROVIDE SEISMIC BRACING FOR ALL ELECTRICAL EQUIPMENT, RACEWAYS, CABLE TRAYS, BUSSDUCTS, LIGHT FIXTURES, ETC. PER THE REQUIREMENTS OF THE BUILDING CODE. AT A MINIMUM, LIGHT FIXTURES SHALL BE SUPPORTED WITH AT LEAST TWO (2) #12 AWG STEEL WIRE FROM OPPOSITE CORNERS OF THE LIGHT FIXTURE AND ALL ELECTRICAL DISTRIBUTION EQUIPMENT MUST BE SECURED PER THE MANUFACTURES RECOMMENDATIONS.
- 23. THE CONTRACTOR SHALL LABEL ALL ELECTRICAL DISTRIBUTION EQUIPMENT INCLUDING BUT NOT LIMITED TO SWITCHGEAR, SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, SAFETY SWITCHES, AUTOMATIC TRANSFER SWITCHES (ATS), MANUAL TRANSFER SWITCHES (MTS), UNINTERRUPTIBLE POWER SUPPLY (UPS), ETC. BY A MEANS THAT IS SUITABLE FOR THE ENVIRONMENT. HAND WRITTEN LABELS ARE NOT ACCEPTABLE.
- THE CONTRACTOR SHALL LABEL ALL DEVICES INCLUDING BUT NOT LIMITED TO SWITCHES, OUTLETS, FLOOR BOXES, FURNITURE CONNECTIONS, ETC. WITH THE NAMES OF THE SUPPLYING CIRCUIT(S) ON THE FACE OF THE DEVICE BY A MEANS THAT IS SUITABLE FOR THE ENVIRONMENT. HAND WRITTEN LABELS ARE NOT ACCEPTABLE.
- THE CONTRACTOR SHALL LABEL ALL JUNCTION BOXES WITH THE NAME OF THE CURCUIT(S) BY BY A MEANS THAT IS SUITABLE FOR THE ENVIRONMENT. IF HAND WRITTEN LABELS ARE USED ALL HAND WRITING MUST BE LEGIBLE OTHERWISE HAND WRITTEN LABELS ARE NOT ACCEPTABLE.
- 26. THE CONTRACTOR SHALL PROVIDE A CLEAN WORK AREA THROUGHOUT CONSTRUCTION, REMOVING ALL PACKAGING AND WASTE DUE TO THE INSTALLATION. THE CONTRACTOR SHALL ALSO CLEAN ALL ELECTRICAL EQUIPMENT (INTERNALLY AND EXTERNALLY), LIGHT FIXTURES, DEVICES, ETC. PRIOR TO SUBSTANTIAL COMPLETION.
- 27. THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER COMPLETE RECORD OF ALL FIELD CHANGES NOT DOCUMENTED BY RFI, ADDENDUM, ETC. TO BE INCLUDED IN THE OWNERS RECORD DOCUMENTS.

SHEET NUMBER	DESCRIPTION	
E000	ELECTRICAL GENERAL NOTES AND SYMBOL SCHEDULES	
E201	ELECTRICAL MAIN FLOOR POWER PLAN	
E301	ELECTRICAL MAIN FLOOR LIGHTING PLAN	
E401	ELECTRICAL MAIN FLOOR FIRE ALARM PLAN	
E601	ELECTRICAL DETAILS	
E801	ELECTRICAL SCHEDULES	
E901	ELECTRICAL SPECIFICATIONS	

ELECTRICAL REVISIONS	
DESCRIPTION	DATE



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N BUILDING ADDITION West 2200 South Acuse, ut 84075

ELECTRICAL GENER

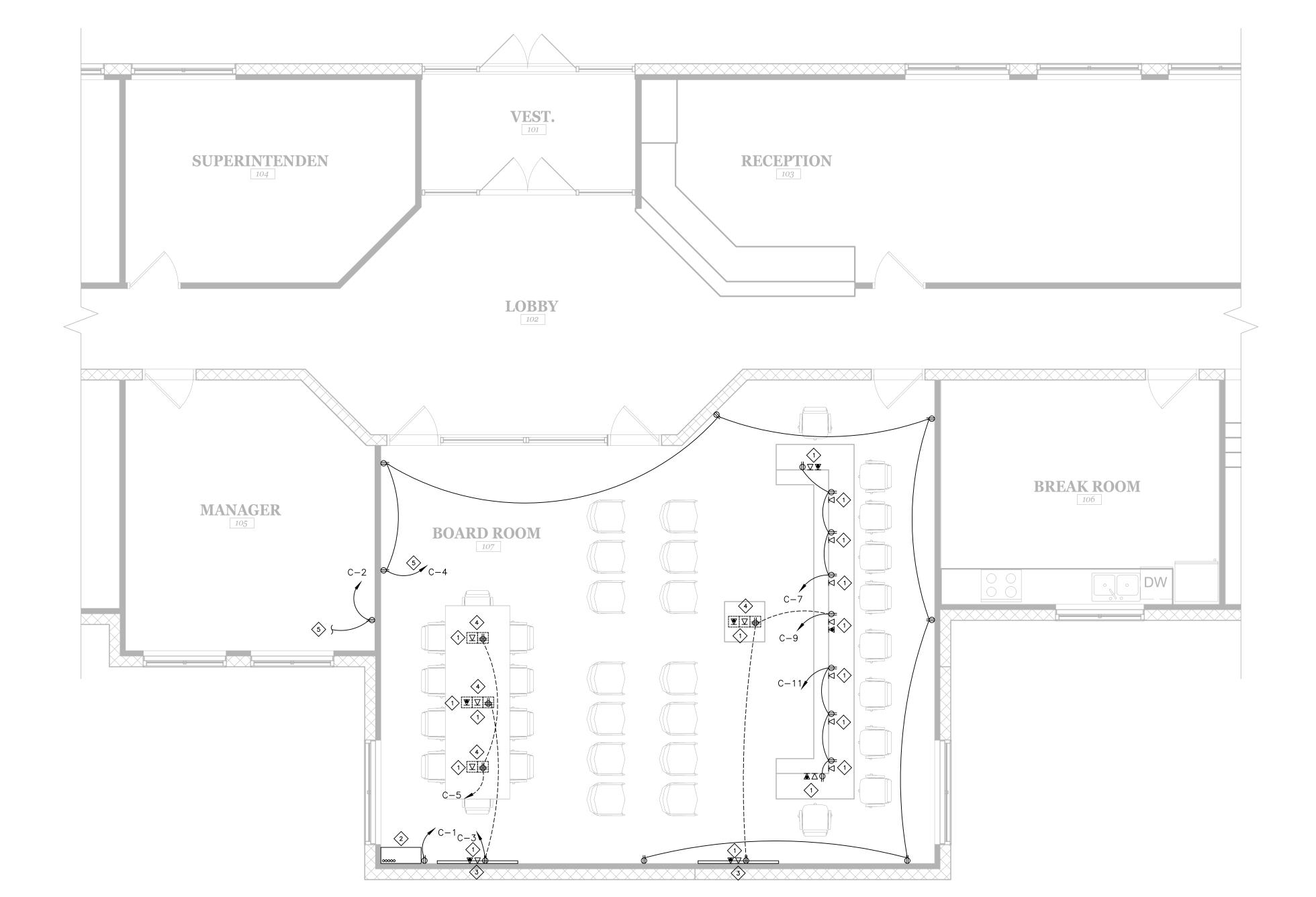
oject Number:
01-0008-2024

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PERMIT SET

03-18-2024

Sheet Number:



ELECTRICAL GENERAL SHEET NOTES:

- CONTRACTOR SHALL PROVIDE ALL SAW CUTTING, CONCRETE REMOVAL AND PATCHING, AS REQUIRED FOR A COMPLETE INSTALL OF ALL UNDERGROUND RACEWAYS.
- CONTRACTOR SHALL COORDINATE ALL DEVICE LOCATIONS WITH OWNER AND MILLWORK/FURNITURE VENDOR PRIOR TO ROUGH—IN.

ELECTRICAL KEY NOTES

- PROVIDE A 1" RACEWAY FROM TELECOMMUNICATION OUTLET(S) TO MEDIA CABINET.
- MEDIA CABINET PROVIDED BY OWNER SELECTED VENDOR.
- VERIFY MOUNTING HEIGHT OF POWER AND TELECOMMUNICATION OUTLET(S) WITH OWNER/ARCHITECT PRIOR TO ROUGH—IN. SEE DETAIL E/E601 FOR ADDITIONAL REQUIREMENTS.
- PROVIDE POWER AND TELECOMMUNICATION FLOOR BOX. HUBBLE SYSTEM ONE 4 GANG FLOOR BOX WITH COVER AND OUTLETS, CFB4G3OCR OR EQUIVALENT. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH—IN.
- 5 RE-FEED EXISTING CIRCUIT FROM NEW PANEL.

Expiration Date:
03-31-2025

Joseph W. Taft
License No.
6563034-2202
Date Stamped:
03-18-2024

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ADMINISTRATION BUILDING ADDITION 4252 West 2200 SOUTH SYRACUSE, UT 84075

Project Number: 01-0008-2024

Status: PERMIT SET

03-18-2024

Sheet Number:

E201

1) REUSE EXISTING LIGHTING CIRCUIT.



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ADDITION

LIGHTING

ADMINISTRATION BI 4252 WEST 2 SYRACUSE, 1

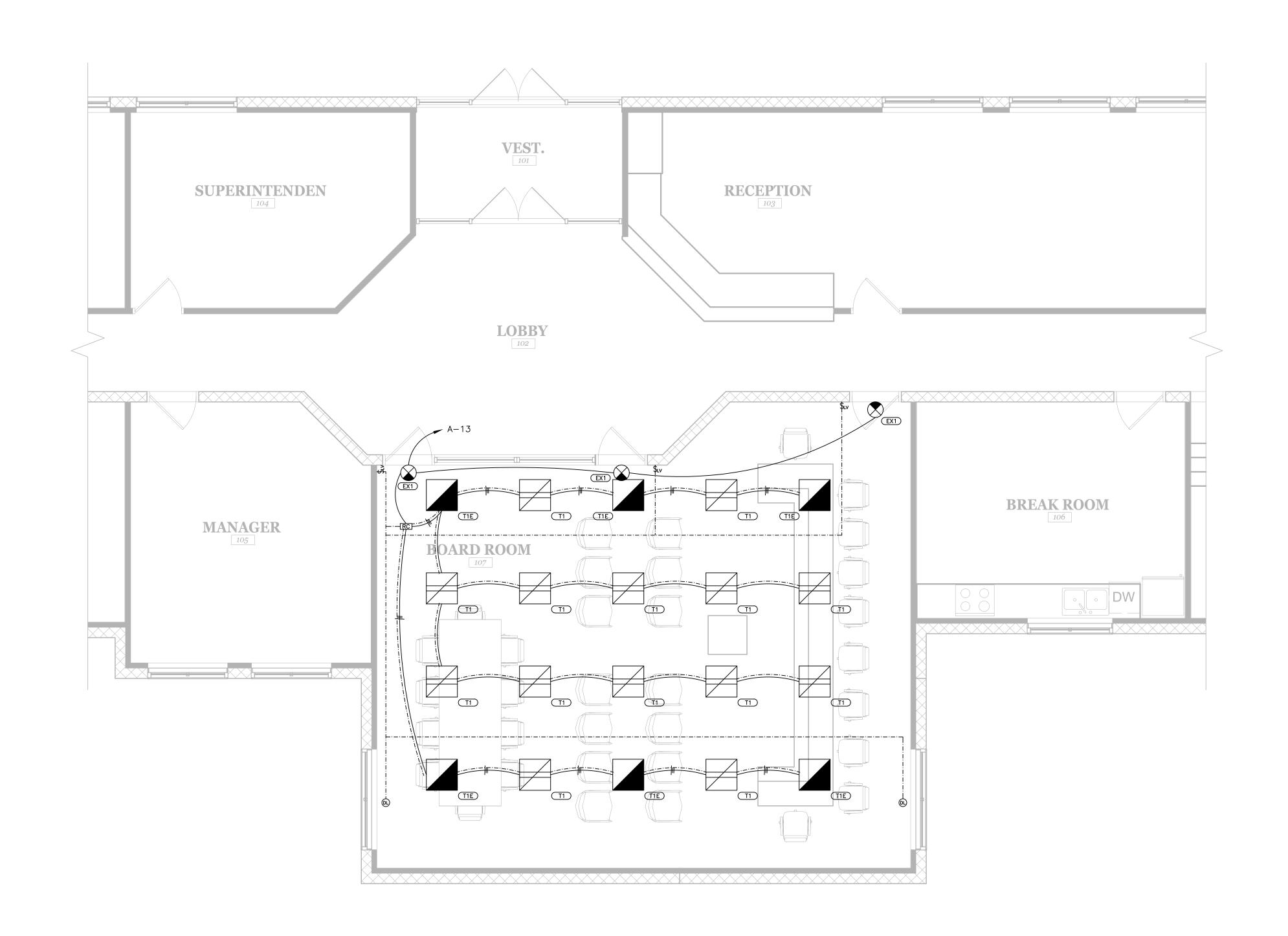
Project Number: 01-0008-2024

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03-18-2024

Sheet Number:

ELECTRICAL REVISIONS



ELECTRICAL KEY NOTES:

HORN/STROBE TO BE SAME STYLE AND MANUFACTURE OF EXISTING FIRE ALARM DEVICES WITHIN BUILDING.



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E ALARM PLAN

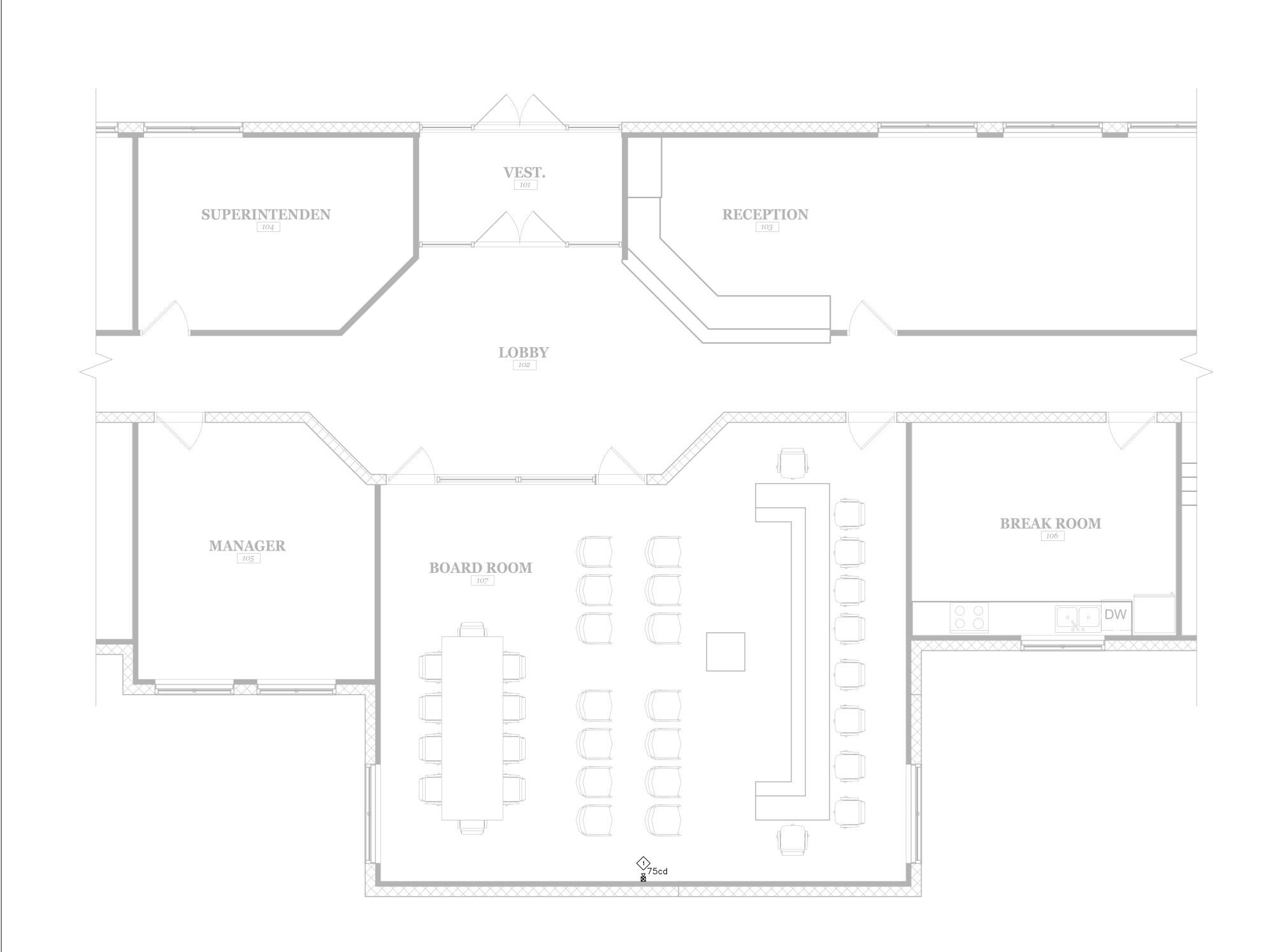
ADMINISTRATION BUILDING ADDITION 4252 West 2200 South Syracuse, ut 84075

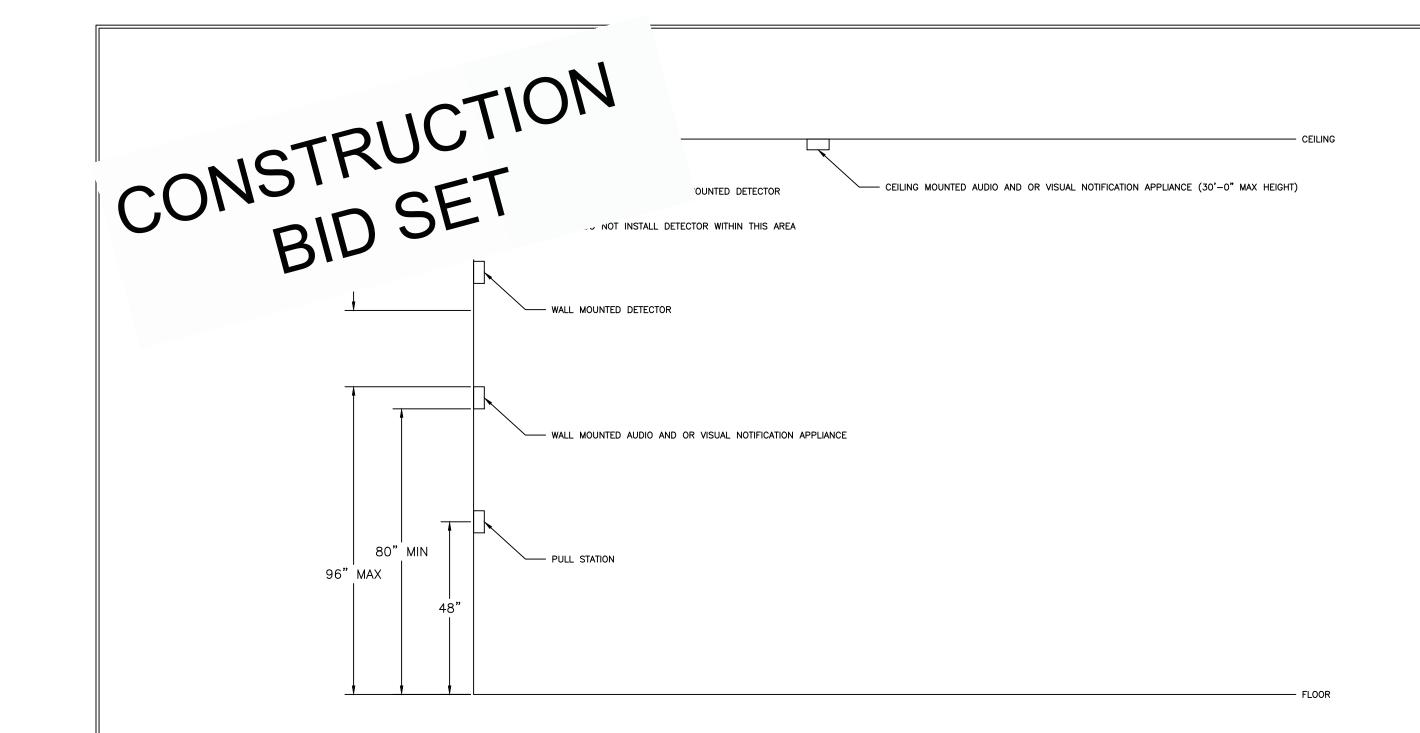
Project Number: 01-0008-2024

Status:
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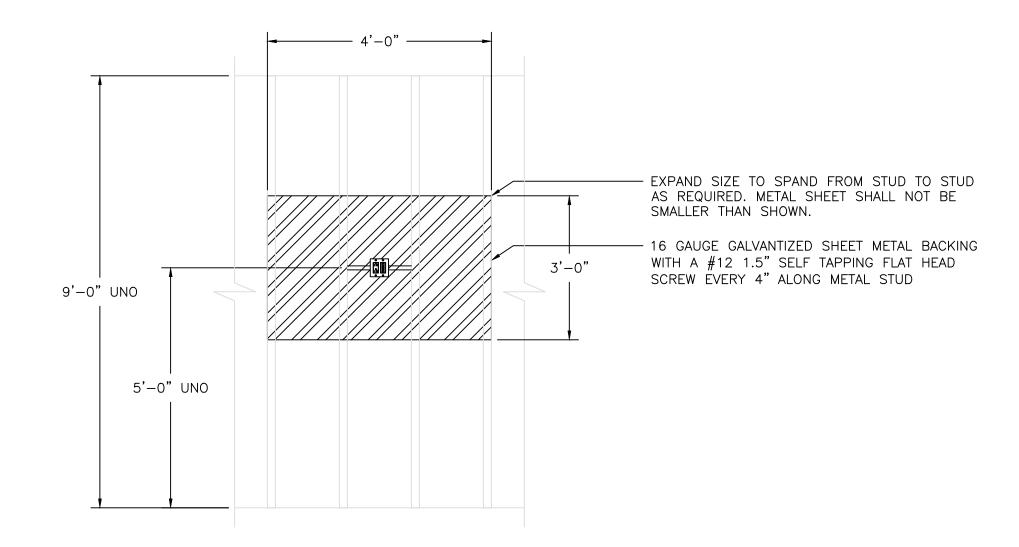
Date: 03-18-2024

Sheet Number:

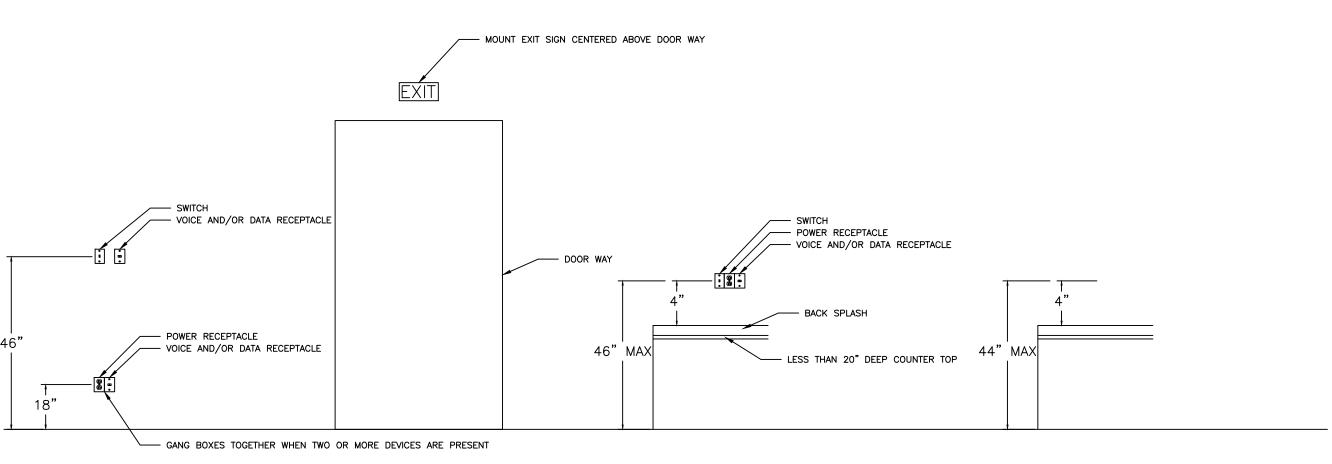




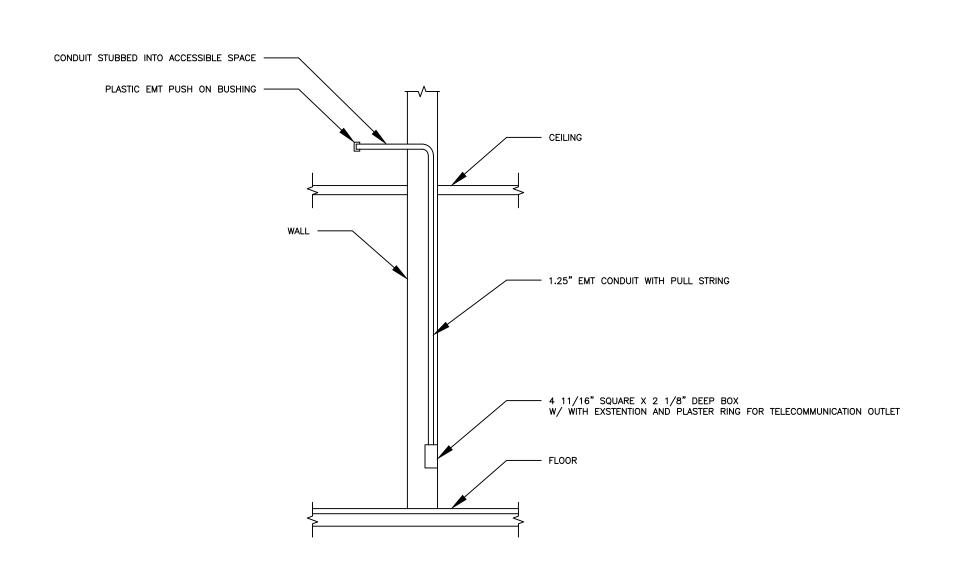
ELECTRICAL FIRE ALARM DEVICES MOUNTING DETAIL



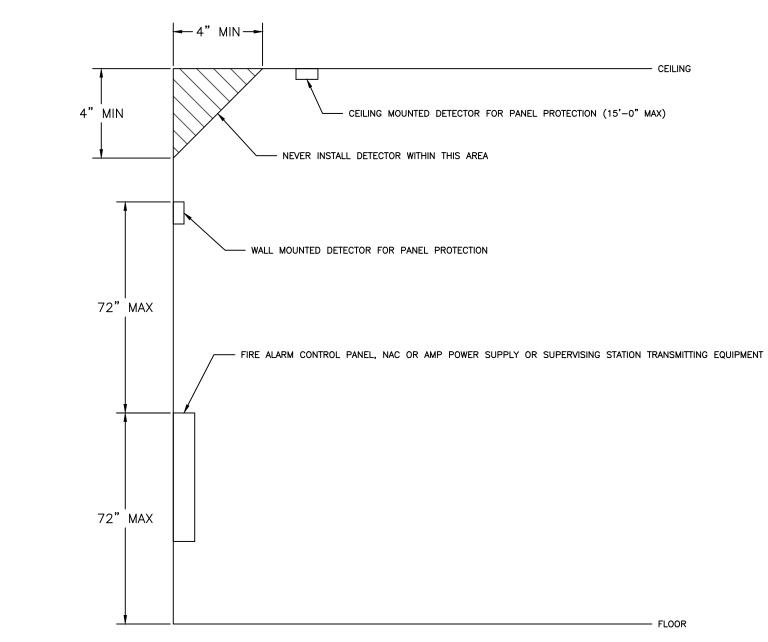
LECTRICAL TV BACKING DETAIL TYPICAL



ECTRICAL POWER & LIGHTING DEVICES TYPICAL MOUNTING HEIGHTS



TELECOMMUNCATION STUB-UP DETAIL



LECTRICAL FIRE ALARM PANEL MOUNTING DETAIL

ELECTRICAL REVISIONS



TAFT ENGINEERING

ADDITION

RICAL

ADMINISTRATION BUILDING 4252 WEST 2200 SOUTH SYRACUSE, UT 84075

Project Number: 01-0008-2024

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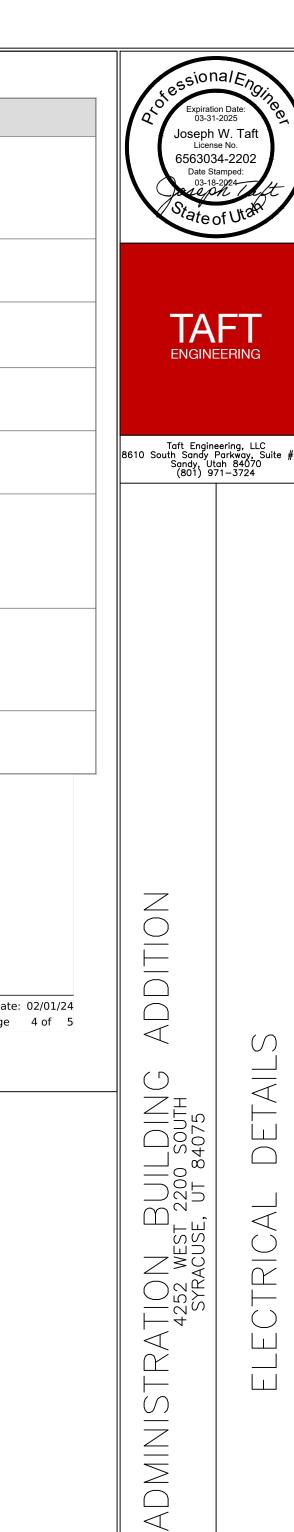
03-18-2024 Sheet Number:



V	Energy Code: 2018 IEC	<u> </u>	
Requirem	nents: 100.0% were addressed d		OM <i>check</i> software
•		•	he user in the COMcheck Requirements screen. For eac
requireme	ent, the user certifies that a code re	quirement will be	e met and how that is documented, or that an exception table, a reference to that table is provided.
Section			
# & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹		□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
Addition	al Comments/Assumptions:		
Addition	al Comments/Assumptions:		

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2. 2 [EL22] ¹	Spaces required to have light-	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.2.1, C405.2.1. 1 [EL18] ¹	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.2.1. 2 [EL19] ¹	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C405.2.1. 3 [EL20] ¹	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.		Exception: Requirement does not apply.
1,	Each area not served by occupancy sensors (per C405.2.1) have timeswitch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
	1 High Impact (Tier 1)	2 Medium Impa	act (Tier 2) 3 Low Impact (Tier 3)

C405.2.3. i 1, I C405.2.3. I 2		Complies?	Comments/Assumptions
1	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
[EL26] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
[EL27] ¹ 6	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.3	Exit signs do not exceed 5 watts per face.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
[EL26] ²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
[EL27] ² (Ellipsi)	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
C405.8.2, E C405.8.2. 1 [EL28] ² r	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
[EL29] ²	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.



Project Number:

Sheet Number:

01-0008-2024

PERMIT SET

03-18-2024

E602

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5. 2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C405.4.1 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the Interior Lighting fixture schedule for values.
C408.1.1 [FI57] ¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.2.5. 1 [FI16] ³	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C408.3 [FI33] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

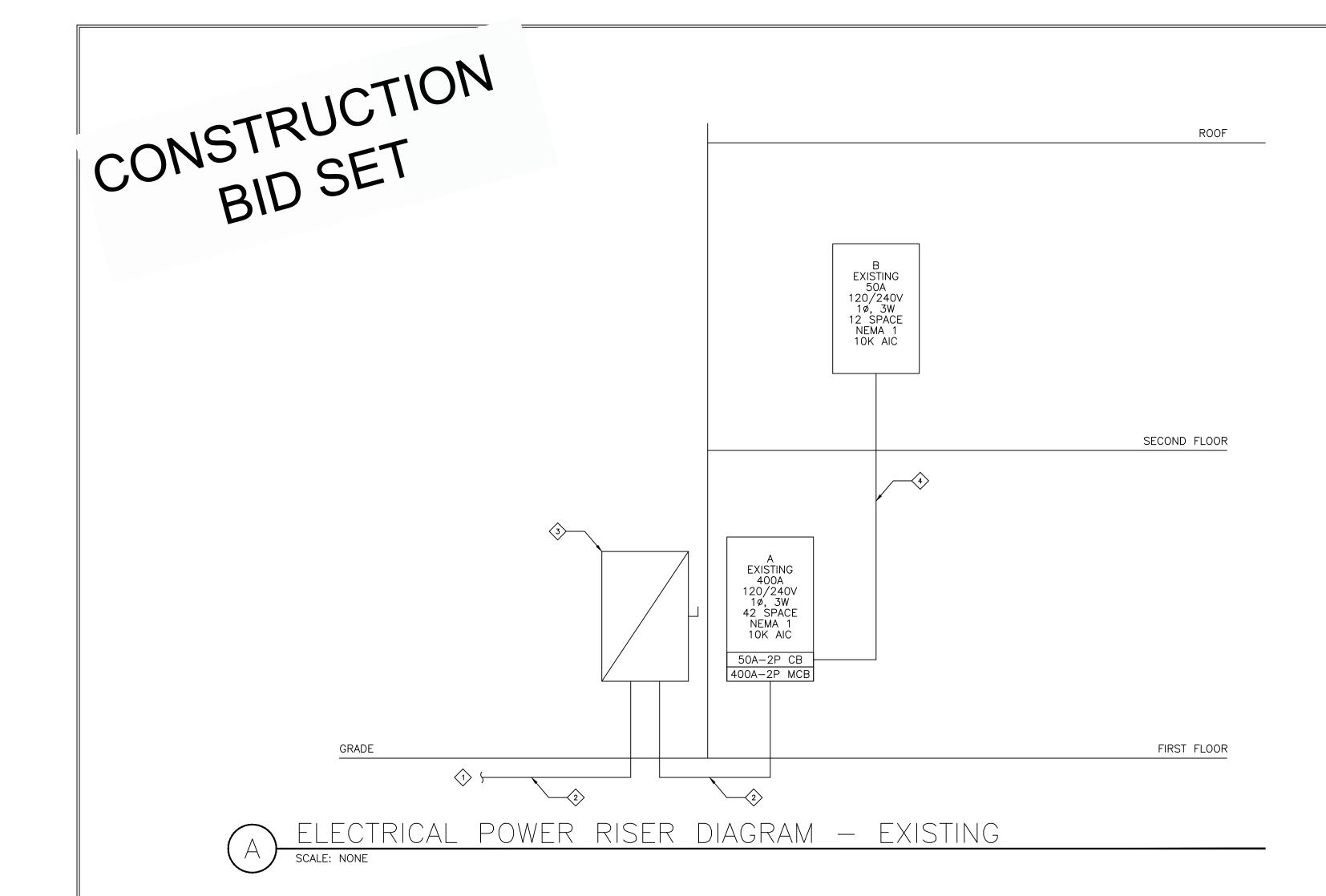
Additional Comments/Assumptions:

Project Title: Administration Building Addition
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Administration Building Addition
Data filename:

Administration Building Addition
Page 5 of 5

	ELECTRICAL REVISIONS	
#	DESCRIPTION	DATE
∧ .		



ROOF EXISTING 50A 120/240V 1ø, 3W 12 SPACE NEMA 1 10K AIC SECOND FLOOR C NEW 125A 120/240V 1ø, 3W 12 SPACE NEMA 1 10K AIC EXISTING 400A 120/240V 1ø, 3W 42 SPACE NEMA 1 10K AIC 50A-2P CB 125A-2P CB 400A-2P MCB FIRST FLOOR

ELECTRICAL POWER RISER DIAGRAM - NEW

ELECTRICAL KEY NOTES:

1) CONTINUES TO PANEL "LAB LDP".

2 EXISTING 3" CONDUIT. CONTRACTOR TO VERIFY SIZE AND REPORT IF FOUND DIFFERENT.

EXISTING 400AF/400AT, 3P, 240V, NEMA 3R FUSED DISCONNECT SWITCH. VERIFY EQUIPMENT AND REPORT IF FOUND DIFFERENT.

4 EXISTING FEEDER.

INSTALL NEW 125A-2P CIRCUIT BREAKER (EATON BAB2125, VERIFY WITH EQUIPMENT MANUFACTURE PRIOR TO ORDERING). REPLACE EXISTING BREAKERS A-18,20 AND RE-FEED EXISTING CIRCUITS FROM NEW PANEL "C".

6 3#2 XHHW CU, 1#6 XHHW CU, 1.25" CONDUIT.

NEW PANEL "C" AS DESCRIBED IN PANEL SCHEDULE ON SHEET E801.
COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT AND RELOCATE AS
REQUIRED ANY HEAT TRACE CONTACTORS OR LIGHTING CONTROLS TO MAKE
SPACE AJCENT TO PANEL "A" AVAILABLE FOR PANEL "C".

Joseph W. Taft License No. 6563034-2202 Date Stamped:

> TAFT ENGINEERING

ADDITION ADMINISTRATION BUILDING 4252 WEST 2200 SOUTH SYRACUSE, UT 84075

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Project Number: 01-0008-2024

PERMIT SET

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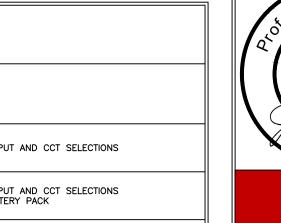
Sheet Number:

ELECTRICAL REVISIONS

CONSTRUCTION CONSTRUCTION BID SET

ELECTRICAL LIGHT FIXTURE SCHEDULE TYPE)#											
TYPE	QUANTITY (ESTIMATE ONLY)	DESCRIPTION	MANUFACTURER(S)	CATALOG NUMBER(S)	LIGHT SOURCE	WATTS PEF FIXTURE	R VOLTAGE	DIMMING	MOUNTING	NOTES	
			COLUMBIA LIGHTING	CCL22-LSLC		35				PROVIDE WITH FIELD SELECTABLE LUMEN OUTPUT AND CCT SELECTIONS	
T1A	14	RECESSED TROFFER 2X2 DIRECT/INDIRECT	WILLIAMS LITHONIA	FT-22-LS/8CS-AF-DIM-UNV STAKS-2X2-SWW7	LED 2500 LUM 3500K		UNV	0-10VDC @ 10%	CEILING GRID		
			COOPER LIGHTING INDUSTRIES	22CZSB-SCT3-UNV							
			COLUMBIA LIGHTING	CCL22-LSLC-ELL10			5 UNV			+	
T4.15		RECESSED TROFFER 2X2 DIRECT/INDIRECT	WILLIAMS	FT-22-LS/8CS-AF-EM/10W-DIM-UNV	LED 2500 LUM 3500K	35		0-10VDC @ 10%	OFILING ODID	PROVIDE WITH FIELD SELECTABLE LUMEN OUTPUT AND CCT SELECTIONS	
T1AE	Ь		LITHONIA	STAKS-2X2-SWW7-IE10WCP					0% CEILING GRID	PROVIDE WITH EMERGENCY BATTERY PACK	
			COOPER LIGHTING INDUSTRIES	22CZSB-SCT3-UNV-EL10W							
			HUBBELL LIGHTING	LXUGWE		5		N/A			
EX1	3	EXIT LIGHT W/ BATTERY PACK	WILLIAMS	EXIT-G-EM-WHT-SDT-D	LED		UNV		UNIVERSAL	PROVIDE WITH EMERGENCY BATTERY PACK	
LXI			LITHONIA	LQM S W 3 G 120/277 ELN				177	ONIVERSAL	TROVIDE WITH EMERGENCY BATTERY FACE	
			COOPER LIGHTING INDUSTRIES	APX7G							
NOTES:											
1. OWNER / ARCHITECT TO DETERMINE FINISH OF FIXTURES 2. ALTERNATE MANUFACTURES ACCEPTABLE IF PRE—APPROVED BY ENGINEER BEFORE BID DATE, SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL DETAILS.											
2.	ALIERNAIE	E MANUFACTURES ACCEPTABLE IF PRE-APPROVED BY ENGIN	NEER BEFORE BID DATE, SEE GENERAL NOT	ES AND SPECIFICATIONS FOR ADDITIONAL DETAILS.							

PANEL SCHEDULE



ENGINEERING

Joseph W. Taf 6563034-2202

ADDITION

ADMINISTRATION BUILDING 4252 WEST 2200 SOUTH SYRACUSE, UT 84075

Project Number: 01-0008-2024

PERMIT SET

03-18-2024

BUS RATING:					D: 🗆	TYPE 1 TYPE 2			SOLATED GROU	ND B	US			SUB FEED LUGS (TOP) SUB FEED LUGS (BOTTOM) FEED THRU LUGS (TOP) FEED THRU LUGS (BOTTOM) MAIN LUGS ONLY (TOP) MAIN LUGS ONLY (BOTTOM)
EQUIPMENT RATING:	10k AIC	EST.	SC:4	1.04kA		TYPE 3							_	
EST. ARC FLASH: 4.9 co	ıl/cm^2 @ 1	8"												
		<u> </u>				BRANCH BI	REAKERS							
DDEAVED DECODIDION	AMBS	POLE NOT	_ CIR.	LEFT PH	IASE LO	OAD	RIGHT	PHA	SE LOAD	CIR.	AMPS	חסו ר	NOTE	DDEALED DESCRIPTION
BREAKER DESCRIPTION			NO.	Α		В	Α		В	NO.			NOIE	
AV CABINET	20	1	1	180			720			2	20			OFFICE CO
CONF. TABLE CO		1	3			540			1260	4		1		BOARD RM CO
CONF. TABLE CO		1	5	720		700	0		_	6		1		SPARE
BOARD CO	20	1	7	700		720			0	8	20	1		SPARE
BOARD CO	20	1	9	720		720	0		_	10		1		SPARE SPARE
BOARD CO SPARE	20	1	13	0		/20	0		0	12 14		1		SPARE SPARE
SPARE	20	1	15	0		0	U		0	16		1		SPARE
SPARE	20	1	17	0		0	0		U	18		1		SPARE
SPARE	20	1	19	Ü		0			0		20	1		SPARE
SPARE	20	1	21	0		Ů	0		Ü	22		1		SPARE
SPARE	20	1	23	Ü		0			0	24		1		SPARE
SPARE	20		25	0			0			26		1		SPARE
SPARE	20	1	27			0			0	28		1		SPARE
SPARE	20	1	29	0			0			30	20	1		SPARE
		FT SUB		1620		1980	720		1260					
		D-THRU												
NCLOSURE:			TOTAL	2340		3240								
	AMF	PS PER F	PHASE	20		27								
EMA RATING: 1		T0T.		o .			•							
EEDER: 🗆 TOP		IOIAL	CONNE	CT LOAD (kVA):	:	5.0	<u> </u>							
EDER: LI TOP		TOTAL CO	NNECT	LOAD (AMPS):		2.3	7							
ы вопом		TOTAL CO	JININEC	LOAD (AMPS).		25.	<u> </u>							
OUNTING: FLUSH														
□ SURFACE														
ENERAL NOTES:														
LABEL PANEL WITH ENGRA	AVFD NAME	TAGS.												

			_	
	ELECTRICAL REVISIONS			She
#	DESCRIPTION	DATE		
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inditions are a part of this contract.

articles, ma3terials, operations or methods listed, mentioned or schedules on merein specified, including all labor, material, equipment, and incidentals and required for their completion.

26020 - Material and Methods

26060 - Communication Conduit System 26070 - Fire Alarm System

1.03 DRAWINGS AND SPECIFICATIONS

26080 — Generator

A. Electrical drawings are diagrammatic, but shall be followed as closely as actual construction and work of other contractors will permit. Home runs shall be installed from outlets as shown on drawinas.

- B. Deviations from drawings required to make work of this contract conform to building as constructed, as to work of other contractors, shall be made by the Contractor at his expense. The Architect reserves the right to make minor changes prior to installation in the location of equipment and outlets without additional charges.
- C. Before submitting bid, the Contractor shall familiarize himself with the architectural and mechanical plans. He shall perform all work and provide all material required by the Electrical Contractor shown under these and all other sections of the plans and specifications as though they were shown on the electrical plans and specifications. He shall be governed by locations of equipment shown on these plans where provisions and installation of equipment is under their section of the contract. Exact locations of outlets serving equipment shall be determined by and conform with the shop drawings submitted with equipment.
- D. Items in the plans and specifications that are in conflict, not understood, or incomplete shall be referred to the Architect for clarifications before submitting bid. Failure to notify the Architect of these items will indicate that the Contractor has included a sufficient amount in his bid to cover the expense of correcting these items to the satisfaction of the Architect.
- E. The Contractor shall keep a record set of drawings neatly marked with all changes from the original design, the Contractor shall make neat and accurate changes on a set of sepigs supplied by the Architect. These drawings shall be delivered to the Architect at the completion of the project prior to receiving final payment. A print of these drawings shall be made available to the Architect and his Engineer at the time of final inspection.

1.04 INDUSTRY STANDARDS

A. The following is an abbreviation list of organizations and publications specified herein:

1. NEC — National Electrical Code 2. NEMA — National Electrical Manufacturers' Association 3. UL — Underwriters Laboratories, Inc.

1.05 CODES AND PERMITS

A. The installation and materials shall comply with all laws applying to electrical installations in effect, with the regulations of the NEC where such regulations of the Public Utility Company furnishing the service. The General Contractor will obtain and pay for the cost of the electric permit. The building owner is responsible to pay for power & communication utility connection and impact fees.

1.06 DRAWINGS

- A. Contractor shall submit to the Architect Eight (8) bound sets of shop drawings, consisting of electrical panelboards, fire alarm system, and light fixtures. Each set shall be in a plastic binder and shall consist of complete catalog data on equipment listed and shall be submitted within 30 days after general construction begins.
- B. Contractor shall check all shop drawings for conformance with contract documents before submitting to Architect. He shall note on drawings any changes from items specified, listing reasons and giving source of change such as "changed by addendum" or "changed by change order". Contractor shall be responsible for conformance with plans and specifications; for dimension to be confirmed and correlated at the job site; for information that pertains solely to the fabrication processes of the techniques for construction and for coordination of the work with other trades.

1.07 TESTS

A. This Contractor shall furnish a permit and certificate of acceptance for all work installed by him. including inspection fee for all motors. On completion of the work, the installation shall be tested free from all grounds and short circuits.

1.08 GUARANTEE

A. This Contractor shall guarantee all materials, workmanship and the successful operation of all equipment and apparatus under this contract for a period of one (1) year or as the law requires from the date of final acceptance of the whole work. He shall guarantee to repair or replace at his own expense any part of the apparatus which may show defect during that time, provided such defect is, in the opinion of the Architect, due to improper materials or workmanship and not to carelessness or improper use.

1.09 SUBSTITUTES

A. Refer to General, Supplementary and Special Conditions for instructions on bidding substitute materials and systems.

26020 - MATERIALS AND METHODS

Part 1 — General

1.01 GENERAL CONDITIONS

A. The General Conditions are a part of this contract.

1.02 SCOPE OF WORK

A. This Contractor shall furnish all labor and materials required to complete all the electrical work shown on the drawings and as specified herein.

1.03 MATERIALS

A. All materials shall be UL approved unless otherwise required and shall be delivered to the site at such stages of the work as will expedite the work as a whole. The materials shall be there stored in original cartons until ready for use in such a manner as to permit ready observation by the Architect or his representative. This Contractor shall make his own provisions for delivery and safe storage of materials.

1.04 ALTERNATE MATERIALS

A. Manufacturers' names are listed to establish function and quality of materials or equipment. Materials so listed shall be bid as specified unless written approval is obtained to substitute materials of equal quality by other manufacturers at least five working days prior to bid opening. Letters requesting approval and including complete engineering information describing performance and showing dimensions shall be submitted to Architect and two copies shall be submitted to the Engineer. Label any differences between item specified and item submitted as equal and underline

1.05 EXCAVATION

A. Trenching or other excavation necessitated under this contract shall include proper backfilling, compaction and grading of excess earth. All rubbish or wasted shall be removed and premises left clean as far as this construction is concerned.

1.06 CONDUCTORS

- A. All wiring shall be done with copper conductors sized according to the drawings. Minimum wire size shall be #12 AWG, except as noted Wire #10 AWG and larger shall be stranded. The insulation shall be type THHN or THW or as shown on drawings and shall conform with NEC for the particular application. Branch circuit conductors within three inches (3") of ballast shall be type THHN. Metal clad cable may be used in lieu of a conduit system. Aluminum wire may be used where shown.
- B. Wires shall not be pulled into conduits until the entire system is completely installed and swabbed out and the building, except interior finish, is substantially completed. Only approved wire lubricant shall be applied to conductors. All wires of the same circuit shall run in the same conduit. Neutral conductors shall not be paralleled nor tied together, except at neutral bus in
- C. Splices, taps, and terminals shall be made in accordance with NEC and shall be made in junction boxes, outlets and panelboards approved for the purpose. Ideal wire connectors or equal shall be used for all splices. All wire shall run in metallic raceways.

1.07 RACEWAYS

A. Conduits shall be either rigid steel, intermediate metal conduit (IMC) or electrical metallic tubing (EMT) as required by NEC and shall be of standard type and manufacture. Conduits in damp or wet locations, in earth fill, in slab on grade or where subject to mechanical injury shall be standard weight rigid galvanized conduit or IMC. Heavy duty plastic conduit, equal to Carlon PV-duit type 40, 90 degree C UL approved, may be used for conduits used for service entrance conductors and panelboard feeders where concealed in concrete, installed below slab on grade or buried and encased in three inches (3") of concrete. Use rigid steel elbows and rigid steel conduit or IMC to rise up above grade. Plastic conduit, fittings and cement shall be produced by same manufacturer. All joints shall be solvent welded in accordance with recommendations of manufacturer. Plastic conduit discolored by heat shall be replaced. Do not use open flame on plastic conduit. Rigid steel conduit shall be used in hazardous areas per NEC.

- B. All raceways shall be installed as one complete system with all joints in pipes and all connection to boxes made electrically and mechanically correct. Raceways shall be installed with a pitch down toward boxes in wet or damp areas and shall enter boxes squarely without drop overs or bunching. They shall be firmly secured with standard fittings.
- C. No raceway shall run on roof deck, be cut into insulation or be so located as to endanger the strength of structural members. No horizontal runs shall be made in structural walls without permission of the structural engineer. Conduits buried in concrete slabs shall not exceed 1/3 of the depth of slab and shall be covered by not less than 1/3 depth of concrete. Conduits may be run under floor where necessary, with approval of Architect.
- D. All conduits shall be run concealed in hollow spaces of walls or ceiling, except where otherwise noted. Conduits shall be run exposed on ceilings in unfinished areas. Exposed conduits shall be routed in a workmanlike manner on surface of wall or ceiling, shall be parallel to wall and ceiling, and shall not span across bottom of joists, except where directed by Electrical Engineer. Condulets shall be used where required to provide a neat and workmanlike installation.
- E. Conduit shall be supported within two feet (2') of all couplings and, where exposed, equally spaced not further apart than eight feet (8'). Conduit shall be supported on approved types of galvanized wall brackets, ceiling trapeze, strap hangers or pipe straps, secured by means of toggle bolts on hollow masonry units, expansion bolts in concrete or brick, machine screws on metal surfaces, and wood screws on wood construction. Maintain six inches (6") minimum clearance between conduits and lay-in ceilings. Conduits shall not be anchored to or touch ceiling suspension wires. All empty conduits shall be provided with pull wire having nine inch (9") leads at each outlet or termination. Empty conduits shall be clearly and permanently tagged at all outlets and termination's indicating purpose, origin and destination.

A. All EMT couplings and fittings shall be steel rain-tight compression or steel set screw type equal to Thomas & Betts. Grounding type insulated bushings, equal to OZ type BLG or SBLG, shall be used where required by code. OZ wall entrance seals shall be used at all below grade wall penetrations. Plastic bushings shall be used on conduit 1-1/4" and larger at all termination's. OZ wall entrance seals shall be required for all conduits entering building below grade. Expansion fittings, equal to OZ type AX, shall be used at all expansion joints where cast in slab, for exposed work flexible connections shall be provided. Use OZ type DX expansion fittings in concrete. Provide a bonding bushing on service entrance conduit at main panel.

1.09 BOXES

- A. At each current consuming or switching outlet, provide an approved outlet box of not less than No. 14 gauge steel and of the same finish as the raceway. Gang boxes sized as required shall be provided for bands of more than one device. All boxes at outlets intended for fixtures shall have approved fixture study fastened to the boxes with approved fastenings. No outlet box shall be so located as to displace or interfere with reinforcing steel in concrete slabs, beams, joists
- B. Ceiling outlet boxes in reinforced concrete joist construction shall be located in headers between the joists. All boxes shall be set plumb and level and shall be firmly secured in place so that the face of the box cover will be flush with the finished wall or ceiling line. Provide box extensions to extend box flush with wall finish per NEC 370-10.
- C. Only such knockouts shall be removed from the boxes as are required for connections. Junction boxes, pull boxes and outlet boxes for devices shall be sized as required by NEC. shall be 4" square by 2" deep minimum, and shall be provided with a suitable cover of same material as box. Junction boxes recessed in ceiling or walls shall be provided with 1-1/2" raised plaster ring and cover plate to match plates for devices. In unfinished areas, provide a suitable cover of same material as box. Outlet boxes in wet or damp areas shall be provided with seals to keep moisture out.

1.10 LABELS

A. Provide labels identifying all conductors entering pull boxes and junction boxes. Identify all raceway systems where exposed and all empty outlet boxes. Label shall be on inside cover on junction boxes in finished areas and on outside of cover on boxes in unfinished areas. Provide nameplates on all motor controls, switches and pilot lights, pilot lights, empty cabinets, contactors, momentary contact switches, time switches, and other miscellaneous devices whose function is not apparent from observation and as directed by Architect.

B. Labels shall be engraved metal tags, plates or embossed plastic tape.

Nameplates shall be black laminated micarta or equal with white engraved capital letters on black with white beveled edges, utilize red background for emergency panels and apparatus.

1.11 INSTALLATION

A. The Contractor shall be held solely responsible for the proper installation of his work. He shall arrange with the proper contractors for the building of anchors, etc., and for the leaving of required chases, openings, etc., and shall do all cutting and patching made necessary by his failure or neglect to make such arrangements with others. Any cutting or patching done by this Contractor shall be subject to the directions of the Architect and shall not be started until approval has been obtained.

B. Unless otherwise indicated or directed, the heights to the center of outlets or equipment shall be

us rollows.			
Receptacles	18"	Intercom stations	48"
Telephone outlet	18"	Wall switches	48"
Clock outlet	98"	Distribution panels	72" top
Bells and horns	82"	Disconnect switches	60"
Speakers	98"	Motor controllers	60 "
Fire alarm station	48"		

C. Before placing outlets and equipment, the Contractor shall consult the drawings and specifications of other trades for conflict with equipment, cabinets, shelves, etc. Where such conflicts exist, the Contractor shall consult with the Architect for exact location of outlets.

26030 - ELECTRICAL SERVICES

1.01 GENERAL CONDITIONS

PART 1 - GENERAL

A. The General Conditions are a part of this contract.

1.02 SCOPE OF WORK

A. This Contractor shall furnish all labor and materials required to complete all the electrical work shown on the drawings and as specified herein.

1.03 SERVICE ENTRANCE

A. Three phase 120/208 volt, 4 wire, 60 cycle.

1.04 SERVICE DROP

A. Underground service shall be installed as shown on plans. Extend up service pole as directed by Power Company if plans call for extension up pole.

B. Contractor shall verify exact location of service entrance and voltage available with local Power Company before commencing with electrical installation. If any changes are required from system shown on drawings, Contractor shall receive written approval for Architect before making changes.

1.05 METERING EQUIPMENT

A. Meter and current transformers shall be provided by local Power Company. Contractor shall provide and install meter base and transformer can sized as required by Power Company.

1.06 GROUNDING SYSTEM

A. The conduit system and neutral conductor of the wiring system shall be grounded to the cold water pipe having a continuous path to earth in compliance with NEC. Point of connection to the water system shall be as near as practicable to the service entrance. Run grounding conductor in conduit.

- B. Provide bonding jumper same size as system, ground to provide ground continuity from customer's side of metallic line service entrance and street side of metallic mains.
- C. In addition to the water pipe ground system, the Contractor shall install a made electrode ground system consisting of two (2) 3/4" x10' copperweld rods spaced not closer than ten feet (10') part. Grounding conductors and connections to ground rods shall be protected from damage and shall be placed to avoid disconnect by unauthorized personnel. Interconnect with water pipe around system.

- D. Ground and bond all cabinets, motor frames, conduit systems, electrical appliances, equipment, etc. as required by NEC. Grounding connection shall be accessible for inspection.
- E. Conduit system shall not serve as the sole grounding conductor, a separate ground is required in all conduits or cables that contain wiring over 50 volts.. However, in all plastic conduits and where an equipment ground wire is required, it shall be a copper conductor, sized per NEC Table 250-95. Terminate grounding conductors in outlet boxes per NEC 250-114 and on ground terminal strips in panelboards. Do not connect to neutral bus.

26040 - ELECTRICAL DISTRIBUTION

PART 1 - GENERAL

1.01 GENERAL CONDITIONS

A. The General Conditions are a part of this contract.

A. This Contractor shall furnish all labor and materials required to complete all the electrical work shown on the drawings and as specified herein.

1.02 SCOPE OF WORK

- A. Panelboards shall be complete with concealed trim clamps, door with concealed hinges, flush lock, permanent numbering system, and breakers as shown on the drawings. Breakers used for switching shall carry label indicating "Approved for Switching". Panelboards specified are SquareD with fast trim fronts. Panelboards as manufactured Siemens, General Electric, or Cutler Hammer and conforming to this specification and to dimensions shown on drawings, are approved as
- C. Panelboard layout, circuit numbers, etc., shall conform with Panelboard Schedule shown on drawings. Circuits numbered as shown on drawings shall be connected to respective circuit
- numbers in panelboard. D. Provide a neatly typed or lettered index for all circuits served by each panel using permanent room numbers or names as directed by the Architect. Each index shall be enclosed in an approved holder on the inside of the cabinet door.
- E. Provide hardware in spaces for mounting of future breakers. All panelboards shall be keyed the
- F. Provide and install ground terminal strip in all panelboards with grounding conductors. Anchor and ground strip securely to can. Terminate each grounding conductor individually.
- G. Panels and distribution switchgear with fused switches shall have metal nameplate permanently secured on outside of each switch door. Nameplate shall indicate "fuse type", "maximum fuse amps" as shown on drawings.
- H. Semi-flush mount flush mounted panelboards which protrude from the wall. Fur around panel as 1.04 FUSES
- A. The fused distribution system is designed to provide current-limitation and component protection. To retain these design standards, all fuses shall be of the same manufacture.
- B. Ampere ratings shall be as listed in plans. Interrupting ratings shall be 200,000 amperes for branch feeder and main fuses, unless otherwise noted.
- C. Fuses rated 1/10 to 600 amperes shall be UL Class RK-5 dual-element, current-limiting. All dual-element fuses shall have separate overload and short circuit elements. Bussman Low-Peak Dual-Element Fuse LPN-LPS.
- D. Fuses rated 601 to 6000 amperes shall be UL Class L with time-delay. Bussman Hi-Cap Time Delay Fuse KRP-C.
- E. When indicated on plans, fuses protection circuit—breaker panelboards shall be Class KR-1 or Class L current—limiting fuses. Bussman Limitron Fast Acting Fuses KTN—KTS—KTU.
- F. Motor circuit fuses rated 1/10 to 600 amperes shall be sized one ampere rating above the selected heater element. Fuse ampere rating shall not exceed 125% of motor FLA. Abnormal motor conditions requiring increased ampere ratings shall be referred to the Electrical Engineer. Fuses rated 1/10 to 60 amperes shall be UL Class RK-5 Dualelement. Bussman Fusetron Dual-Element Fuses FRN-FRS. Fuses rated 65 to 600 amperes shall be UL Class RK-5 dual-element, current-limiting. Bussman Low-Peak Dual-Element Fuses LPN-LPS.
- G. Motor circuit fuses rated 601 to 6000 amperes shall be sized at 150% of motor nameplate Fuses shall be UL Class L with time-delay. Bussman Hi-Cap Time-Delay Fuse KRP-C
- H. Spare fuses shall be furnished. Spares shall amount to 10% of installed fuses with a minimum of one set of each fuse type and ampere rating. The set shall equal the number of poles in the appropriate switch.
- I. Provide spare fuse cabinet equal to Bussman for storing spare fuses. Mount on wall near main panel or as directed by Architect.

1.05 HEATING, VENTILATION, AND MISCELLANEOUS EQUIPMENT

- A. The Electrical Contractor shall perform all line voltage wiring and make all line voltage connections to equipment, except where noted otherwise. Line voltage shall be that voltage at 50 volts and above.
- B. The Contractor shall install all starters and controls furnished to by the Contractors of other trades and furnish and install all starters, controls and disconnect switches shown on the drawings, or not provided by other Contractors.
- C. The Contractor shall perform all wiring required for interlocking equipment of other trades installed under this contract. Interlock wiring for mechanical system shall be done as specified under the mechanical section of these specification. D. Low voltage equipment and wiring shall be installed by others or as specified under the
- mechanical section of these specifications or as shown on the drawings. 1.06 WIRING DEVICES

A. General: All devices shall be specification grade and shall be Hubbell, P&S, Leviton or as noted. All devices shall be of one manufacture. Install hospital grade devices where indicated on plans.

Flush toggle type AC quiet, 20 amp, color per architect or owner , Pass & Seymour 20AC1, 20AC3, 20AC4 for spec grade, 2601, 2603, 2604 where decorator devices are called out or equals by Hubbell or Leviton.

C. Receptacles:

3-wire flush grounding type, 125 volt, 20 amp, color per architect, Pass & Seymour 5352 for spec grade, 26252 for 15 amp decorator & 26352 for 20 amp decorator style. GFI outlet. IG outlets must be 15 or 20 amp spec grade as noted. Equals by Hubbell or Leviton are acceptable. Weatherproof receptacles shall have Pass & Seymour WP-26 or WP-8 W.P. covers as

appropriate. D. Clock outlets:

Single grounded receptacle equal to Hubbell 5235 with stainless steel plate.

Lexan plastic color to match device, equal to P&S RP series.

F. Special Purpose Outlet: Provide 4-11/16" square by 2-1/8" deep junction box minimum with raise plaster ring, flexible

equipment. Verify exact location of all drawings of all equipment before installing feeders and conduits. Notify Architect of any changes required from requirement shown on drawings.

G. Floor Outlets: Shall be equal to Walker Parkersburgh 880 Series steel floor box with #895 brass cover plates for power, #896 CK-1 brass cover plate for telephone. Provide carpet flanges in carpeted areas. Where required, service fitting shall be provided as specified on drawings.

metallic conduit with ground wire and wire or receptacle as required. Plaster ring shall be

2-gang for #6 conductor and larger. larger junction boxes shall be provided where required.

Installation shall be watertight in wet or damp locations. Make all line voltage connections to

H. Time Switch:

1. Shall be equal to Tork W300 for outside lights and Tork #7200 24—hour clock for indoor lights. Provide NEMA Type 1B enclosure with key lock and size as required where flush mounting is specified.

I. Disconnect Switches:

1. Shall be equal to Square D with rating as required by NEC and shall be weatherproof where

(a) Single Phase: Motor starting switch with thermal overload. Omit overloads when included

in controller

- (b) Three Phase: Safety switch NEMA type ND fusible. Fuse with Buss dual element fuses sized and 125% of motor full load amps or at next standard fuse size.
- 2. Disconnect means for each motor controller shall be provided with auxiliary contacts as required (or separate disconnect switch adjacent to controller disconnect) for disconnecting
- controller control circuit from its source of power.

1. Shall be equal to Siemens A-C magnetic full voltage RQ-21 starter complete with pilot light,

Starters with disconnect switch shall be equal to RQ-21 combination starter with fusible disconnect switch, having auxiliary contacts for control of separately derived control circuit for operating holding coil. Rating of holding coil voltage and number of interlocks shall be as required by associated equipment or as specified under the mechanical section of these specifications. Size thermal overload units for full load ampere ratings shown on motor

nameplate. Record motor nameplate full load ampere rating and horsepower in each starter.

three heaters, selector switch and properly rated for motor it serves.

26050 - LIGHTING FIXTURES

PART 1 - GENERAL

1.01 GENERAL CONDITIONS

A. The General Conditions are a part of this contract.

two (2) supports for each fluorescent fixture.

1.02 SCOPE OF WORK

A. This Contractor shall furnish all labor and materials required to complete all the electrical work shown on the drawings and as specified herein. 1.03 EQUIPMENT

A. Fixtures as described and scheduled on the drawings and herein shall be furnished and installed complete with all necessary wiring, sockets, lamps, ballast's, auxiliaries, plaster frames, supports,

B. Fixture supports shall be provided in accordance with the NEC and as specified herein. Outlet boxes supporting fixtures shall be firmly anchored to permanent building structures. Fixtures weighing more than 50 pounds and all fluorescent fixtures shall be firmly anchored to

All surface mounted fixtures shall mount tight against ceiling expect spacers shall be provided

1-1/2" steel channel supported by permanent building structure. Spacing between supports for

fluorescent fixtures shall be not greater than eight feet (8') and there shall be not less than

- C. All recessed fixtures shall be removable from the front and shall have tape connection conductors having and insulation suitable for the temperature encountered running from the fixture terminal connection to an outlet box, placed at least one foot (1') from the fixture. Such tape shall extend in at least four feet (4') but not more than six feet (6') of flexible conduit.
- D. Where permitted by code, recessed fixtures may be wired directly with supply conductors having insulation suitable for the temperature noted on the fixture.
- E. Where there is a discrepancy between the quantity of fixtures shown on the drawings and the
- F. All fixtures located in wet or damp areas shall be rated for the specific area and shall carry label indicating approved for wet or damp location.
- G. Typically fixtures are LED rated 3500K for interior lighting and 4000K for exterior applications. Where fluorescent fixtures are utilized they shall have ELECTRONIC ballast's with no more than

26060 - COMMUNICATION CONDUIT SYSTEM

PART 1 - GENERAL

1.01 GENERAL CONDITIONS

1.02 SCOPE OF WORK

- 1.03 EQUIPMENT A. Underground service shall be installed as shown on drawings. Contractor shall verify exact
- B. Voice/data outlets shall be standard 4" x 4" box with telephone face plate to match plates for
- C. Provide raceway system as shown on drawings. Surface mounted raceways terminating at location of telephone equipment shall be neatly racked and stubbed up 6" above floor and 6" below ceiling. Secure conduits to 1" channel mounted on wall. Provide bushings on all conduits.

Joseph W. Tat License No 6563034-2202 Date Stamped: 03-18-2024 16PN /

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etc. Contractor shall be responsible for verifying correct mounting required for each fixture.

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for combustible ceilings as required by fixture manufacturer. Fixtures shall not be supported from tile or lath of wood, metal or composition. Recessed fixtures designed for grid type ceilings shall be earthquake supported by 4 #12 galv. steel wires attached to structure.

Outlet box shall be accessible when fixture is removed.

quantity of fixtures shown in the fixture symbol, the quantity shown on the drawings shall govern.

20% total harmonic disturbance. All lamps must be full spectrum T-8 spec. 3500 style.

A. The General Conditions are a part of this contract.

A. This Contractor shall furnish all labor and materials required to complete all the electrical work shown on the drawings and as specified herein.

location of service entrance with the Telephone Company before commencing with electrical installation. If any changes are required from those shown on the drawings, Contractor shall obtain written approval from Architect before making changes.

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PERMIT SET

ELECTRICAL REVISIONS

DESCRIPTION