

GENERAL NOTES

A) SEE GENERAL NOTES ON SHEET TI.2 FOR ADDITIONAL REQUIREMENTS.

B REVIEW ALL STRUCTURAL PLANS AND SPECIFICATIONS AS WELL AS STRUCTURAL CALCULATIONS FOR ALL STRUCTURAL REQUIREMENTS.

REFER TO ELEVATION DRAWINGS FOR ALL EXTERIOR FINISHES.

ALL WINDOWS AND DOORS TO BE AS INDICATED IN FLOOR PLANS ELEVATIONS AND WINDOW/DOOR SCHEDULES.

ALL INSULATION, VAPOR BARRIERS, BUILDING PAPER, ETC... AS INDICATED IN GENERAL NOTES.

F ALL EXTERIOR MATERIALS TO BE AS INDICATED ON ELEVATION DRAWINGS.

KEYED NOTES...

MECHANICAL ATTIC SPACE

TURTLE VENTS, PROVIDE MIN. 11 SF AT RIDGE AND 11 ST AT SOFFIT

PRE-FINISHED RAIN GUTTERS WITH DOWN SPOUTS, CONNECT TO STORM DRAIN SYSTEM

PROJECT NUMBER
14019

SSUE DAT

ISSUE DATE:
APRIL 22, 2014

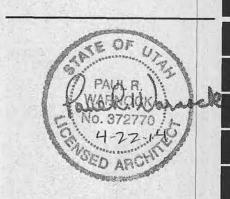
REVISIONS:

No. Date

ADMINISTRATION ADDITION 9091 EAST 100 SOUTH WEBER

SULDING

A3.1



1/4" = 1'-0"

Chapter 3 - Use and Occupancy Classification 305 - Educational Group E

Chapter 5 - General Building Height and Areas 501- General

501.2 - Premises Identification - NA

Table 503 - Height and Area Limitations -Construction Type V-B -At = allowable area = 9,500 S.F. per floor-Allowable height = 40 feet (1 story)

504 - Height

504.2 - Automatic Sprinkler Increase -Increased by 20 feet or 1 story

506 - Area Modifications 506.1 -General NA 506.2 - Frontage Increase = NA 506.3 - Automatic Sprinkler Increase NA

Actual areas per floor

GROSS AREA SCHEDULE 8254 SF

NET AREA SCHEDULE 7973 SF

508 - Mixed Use and Occupancy

508.2 - Accessory Occupancies - Not used 508.3 - Nonseperated occupancies -Used. 508.4 - Separated Occupancies - Not used.

509 - Incidental uses - Not used.

Chapter 6 - Types of Construction 602.5: Type VB Fully sprinkled Table 601 = Type V all elements non rated Table 602 = 10 < x > 30 = 0

Chapter 7 - Fire-Resistance-Rated Construction 704 - Exterior Walls

704 - Fire Resistance Rating of Structural Members - NA

705 - Exterior Walls

Fire separation distance > 30'- 0"

705.3 - Buildings on the Same Lot - Exception: one building

if aggregate area of building is within limits specified in

Chapter 5 for a single building.

706 - Fire Walls - NA

707 - Fire Barriers - NA

707.3.10 - Fire resistance rating - NA

708 - Fire Partitions - NA 709 - Smoke Barriers - NA

710 - Smoke Partitions - NA

711 - Horizontal Assemblies - NA 712 - Vertical Openings - NA

713 - Shaft Enclosures - NA 714 - Penetrations - NA

715 - Fire-Resistant Joint Systems - NA

Chapter 9 - Fire Protection Systems

903 - Automatic sprinkler systems

903.2.3 - An automatic sprinkler system will be installed.

906 - Portable Fire Extinguishers

-Fire extinguishers shall be provided as per International Fire Code -one within ever 75' of travel distance.

907 - Fire Alarm and detection 907.1.2 - Fire Alarm shop drawings shall be submitted prior to installation.

907.2.3 Group E - Manual Fire Alarm -Required with automatic sprinkler systems.

Chapter 10 Means of Egress 1004 - Occupant load.

Table 1004.1.2

Educational - 1 occupant per 20 net

Assembly - 1 occupant per 15 net

Kitchen - 1 occupant per 200 gross

Business - 1 occupant per 100 gross

|             | C       | OCCUPANT LO      | AD           |
|-------------|---------|------------------|--------------|
| Name        | Area    | Occupant<br>Load | Egress Width |
| ASSEMBLY    | 416 SF  | 28               | 6            |
| BUSINESS    | 4613 SF | 46               | 9            |
| EDUCATIONAL | 2697 SF | 135              | 27           |
| KITCHEN     | 528 SF  | 3                | 1            |
|             | 8254 SF | 211              | 42           |

1004.3 - Posting of occupant load

- Posting of occupacy is required in assembly areas.

1005.3 - Egress width capacity based on occupant load.

See chart.

1006.1 - Means of Egress Illumination

Required 1007 Accessible Means of Egress

1007.1 - Accessible means of egress required.

-Two means of egress required.

1007.2 - Continuity and components

(2) accessible routs provided

1007.2.1 - Elevator - NA

1007.3 - Stairways - NA

1007.4 - Elevators - NA 1008 Doors, Gates and Turnstiles

1008.1.1 - Size of doors - Clear width of 32" min.

1008.1.2 - Egress doors swing in direction of travel for occupant loads of 50 or

1008.1.5 - Landings at exterior may slope ¼" per foot (2% slope).

1008.1.6 - Landings - width not less than the width of door.

1008.1.7 - Threshold not to exceed .75 inch.

1008.1.9 - Doors shall be readily openable from the egress side with the use of

key.

1008.1.9.1 - Door hardware as per Chapter 11,

1008.1.9.2 - Door hardware height 34"min., 48"max.

1008.1.9.3 - Locks and latches - NA

1008.1.9.4 - Bolt Locks - Flush bolts or surface bolts are not permitted

1008.1.10 - Panic and fire exit hardware - Required at egress doors serving more than 50 occupants.

1009 - Stairways NA

1010 - Ramps - NA

1011 - Exit Signs

- Required at exits and exit access doors.

1012 - Handrails - NA

1013 - Guards - NA

1014 - Exit Access

- 1014.3 - Common path of egress travel not to exceed 75'

1015 - Exit And Exit Access Doorways

- 1015.1 - Two exit or exit access doorways required for occupant loads over

- 1015.2.1 - The two exits shall be placed apart a distance equal to not less than one-third of the length of the max overall diagonal dimension.

1016 - Exit Access Travel Distance

- Table 1016.2 - Travel Distance < 250 feet with sprinkler system.

1018 - Corridors

Table 1018.1 - Group E w/ sprinkler system = 0 hr.

Table 1018.2 Corridor width Group E occupancy with less than 100 = 44". 1018.4 Dead end corridor in Group E with automatic sprinkler system-length

1021 - Number of Exits and Exit Configuration

not to exceed 50'

1021.2 - Minimum number of exits - 2 exits required.

1022 - Interior Exit Stairways and Ramps - NA

1026 - Exterior Exit Ramps and Stairways - NA 1027 - Exit Discharge

-Exits shall discharge at grade and not reenter the building.

Chapter 11 Accessibility

1104 - Accessible Route

1104.1- Provide Accessible rout to public transportation routs. accessible parking, accessible passenger loading zones, public streets or sidewalks.

1105 - Accessible Entrances

1105.1 - At least 60% of public entrances shall be accessible.

1106 - Parking and passenger loading facilities

- Refer to civil drawings

1110 - Signage

- 1110.1 - Signs with International Symbol of Accessibility 1. provide at accessible parking spaces.

Chapter 29 - Plumbing Systems 2902 - Minimum Plumbing Facilities

-Drinking fountains 1/100

Group E

water closets = 1/50 -Lavatories = 1/50

4 0 POINT

211/50 = 4211/50 = 4

211/100= 2

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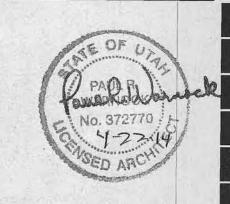
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Date

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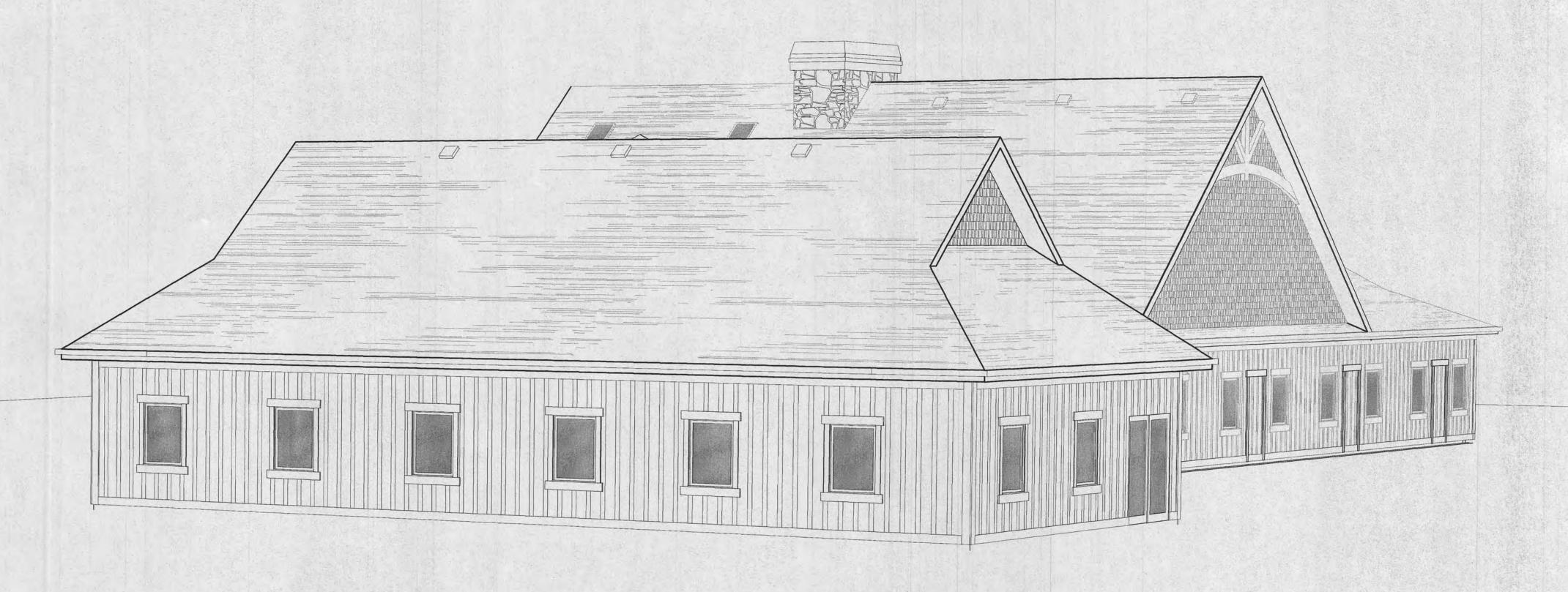
ODE

T1.3



# WAY POINT ACADEMY ADMINISTRATION ADDITION

9091 EAST 100 SOUTH WEBER COUNTY, UTAH



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### **CODE SUMMARY**

CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION
302 - GROUP E - EDUCATIONAL

CHAPTER 5: BUILDING AREA SECTION 503 - BUILDING AREA:

GROSS AREA SCHEDULE

Name Area

ROSS 8254 SF

CHAPTER 6: TYPE OF CONSTRUCTION
TYPE V-B SPRINKLED - NAPF 13 SYSTEM

CHAPTER 10: MEANS OF EGRESS

1004.1.1 - DESIGN OCCUPANT LOAD

1005.1 - EGRESS WIDTH: 36"

 OCCUPANT LOAD

 Name
 Area
 Occupant Load
 Egress Width

 ASSEMBLY
 416 SF
 28
 6

 BUSINESS
 4613 SF
 46
 9

 EDUCATIONAL
 2697 SF
 135
 27

 KITCHEN
 528 SF
 3
 1

 8254 SF
 211
 42

1011.1 - EXIT SIGNS PROVIDED

1014.3 - COMMON PATH OF EGRESS TRAVEL = <75' MAIN LEVEL

1015.1 - EXIT OR EXIT ACCESS DOORWAYS REQUIRED:

MAIN LEVEL 2 EXITS REQUIRED

1016.1 - EXIT ACCESS TRAVEL DISTANCE - 250' OK

### PROJECT DIRECTORY

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### **DESIGN CRITERIA**

APPLICABLE CODE:

2012 INTERNATIONAL BUILDING CODE. (I.B.C.)

2012 INTERNATIONAL MECHANICAL CODE

2012 INTERNATIONAL PLUMBING CODE

2012 INTERNATIONAL FIRE CODE

2009 INTERNATIONAL ENERGY CONSERVATION CODE

2011 NATIONAL ELECTRIC CODE

ACCESSIBILITY I.B.C. A.N.S.I. 117:1 - 2009

### **PROJECT INFORMATION**

PROJECT #: 14019
PROJECT DATE OF ISSUE: APRIL, 2014

THESE DRAWINGS ARE PART OF A SET OF CONSTRUCTION DOCUMENTS. THE CONSTRUCTION DOCUMENTS CONSIST OF ONE OR MORE OF THE FOLLOWING ELEMENTS:

CONSTRUCTION DRAWINGS
SPECIFICATIONS
STRUCTURAL CALCULATIONS
CONTRACT FORMS AND CONDITIONS
ADDENDA
MODIFICATIONS AND REVISIONS

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

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

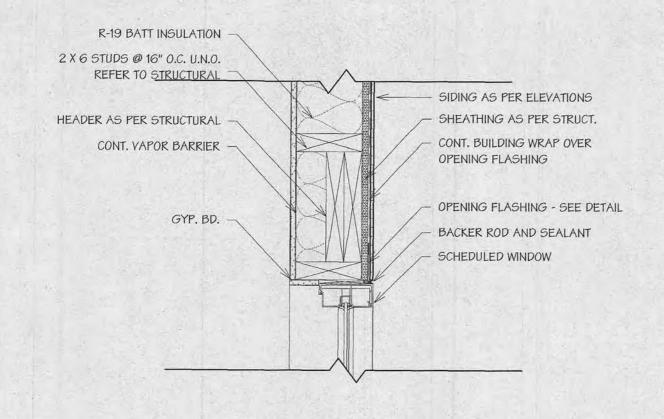
CONTRACTORS SHALL NOT SCALE FROM DRAWINGS. DIMENSIONS ARE PROVIDED TO ALLOW FOR ACCURATE CONSTRUCTION OF BUILDING. QUESTIONS ARISING FROM DIMENSIONS SHOULD BE RESOLVED BY CONTACTING ARCHITECT.

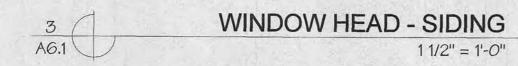


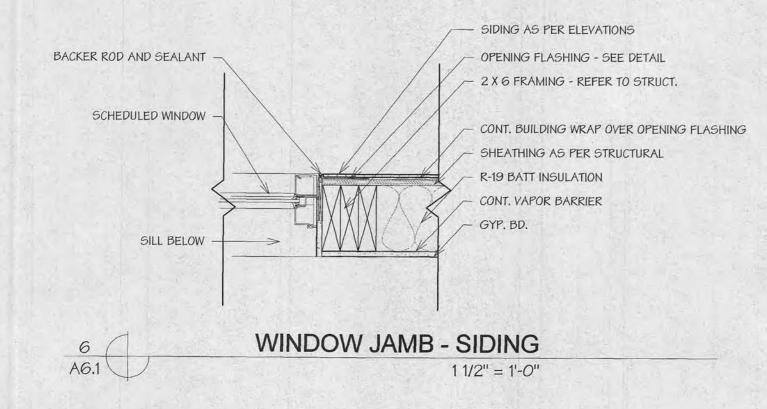
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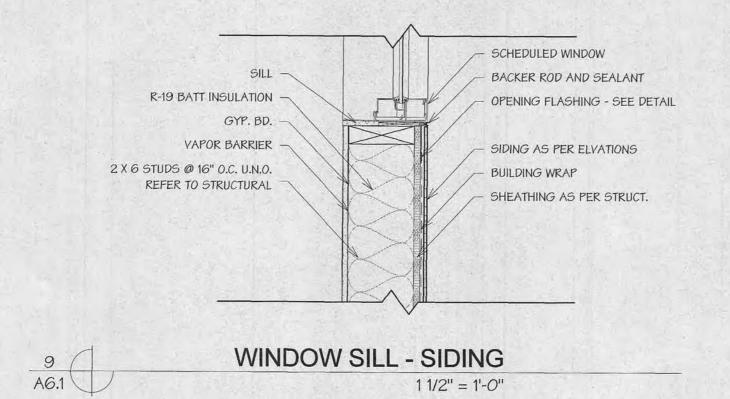
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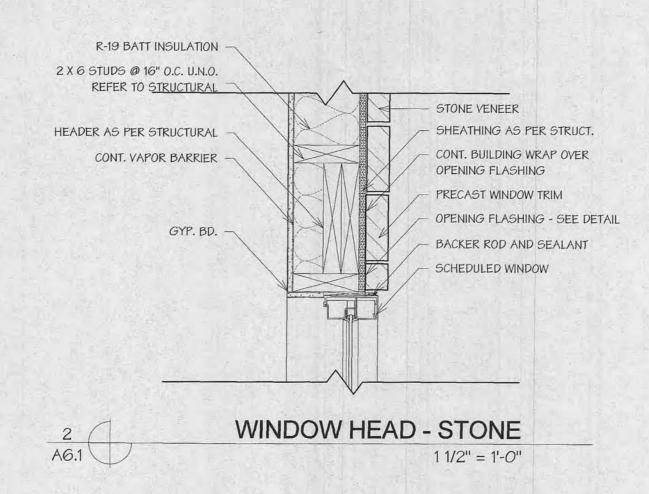


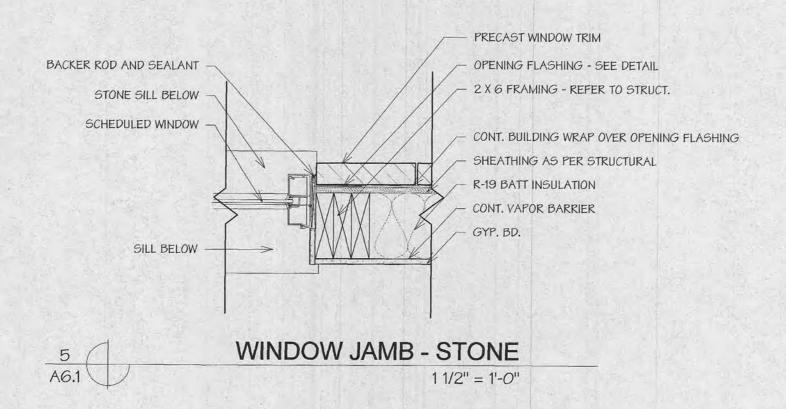


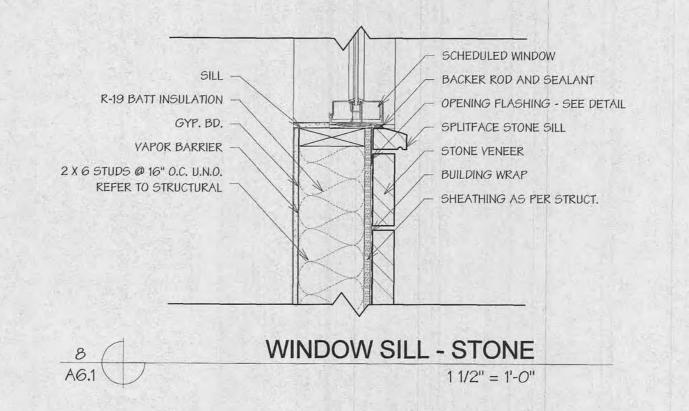


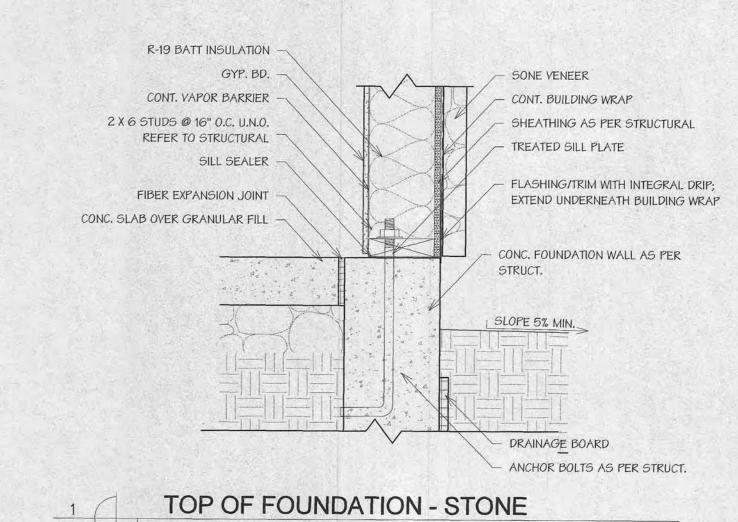


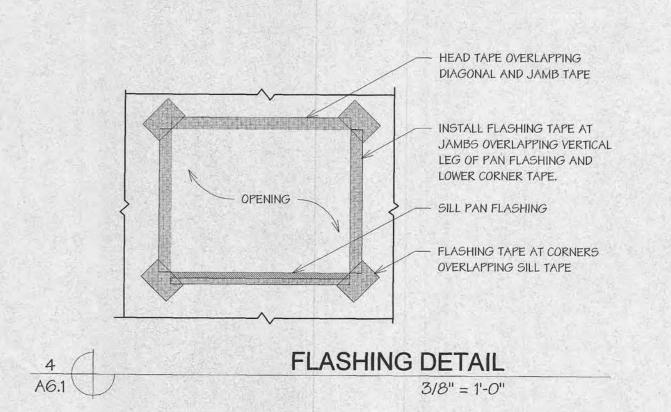


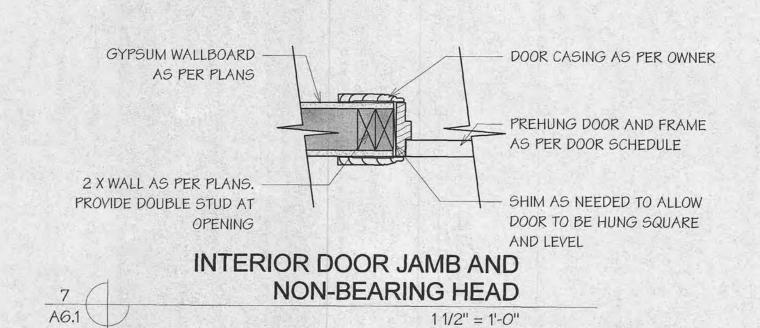












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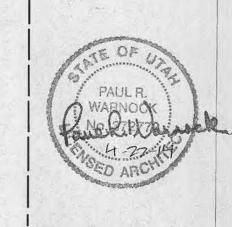
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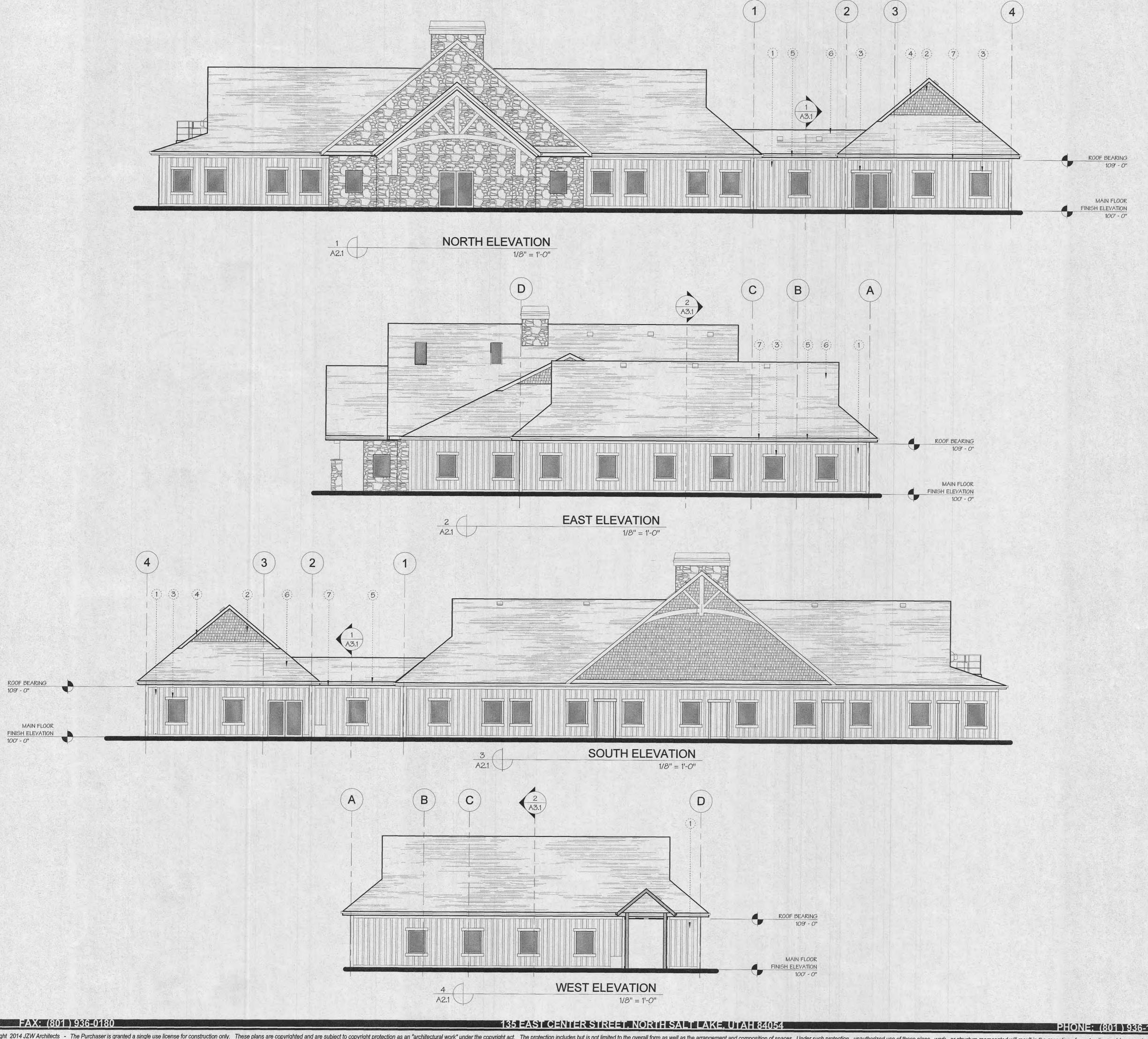
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ADDITION ADN 906

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KEYED NOTES

---(1) HARDIE BOARD - BOARD AND BATT SIDING - CEDARMILL - PAINT COLOR BY OWNER

PREFINISHED METAL FASCIA AND SOFFIT - COLOR BY OWNER

6 ASPHALT ROOFING - REFER TO ROOF PLAN

---(7) HARDIE TRIM - 6" HORIZONTAL AND VERTICAL

HARDIE BOARD - HARDIESHINGLE STAGGERED EDGE NOTCHED PANEL - PAINT COLOR BY OWNER

PRE-FINISHED RAIN GUTTERS WITH DOWN SPOUTS, CONNECT TO STORM DRAIN SYSTEM

HARDIE TRIM AROUND WINDOWS AND DOORS - 6" HORIZONTAL - 4" VERIDICAL - PAINT COLOR BY OWNER

14019

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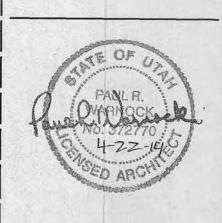
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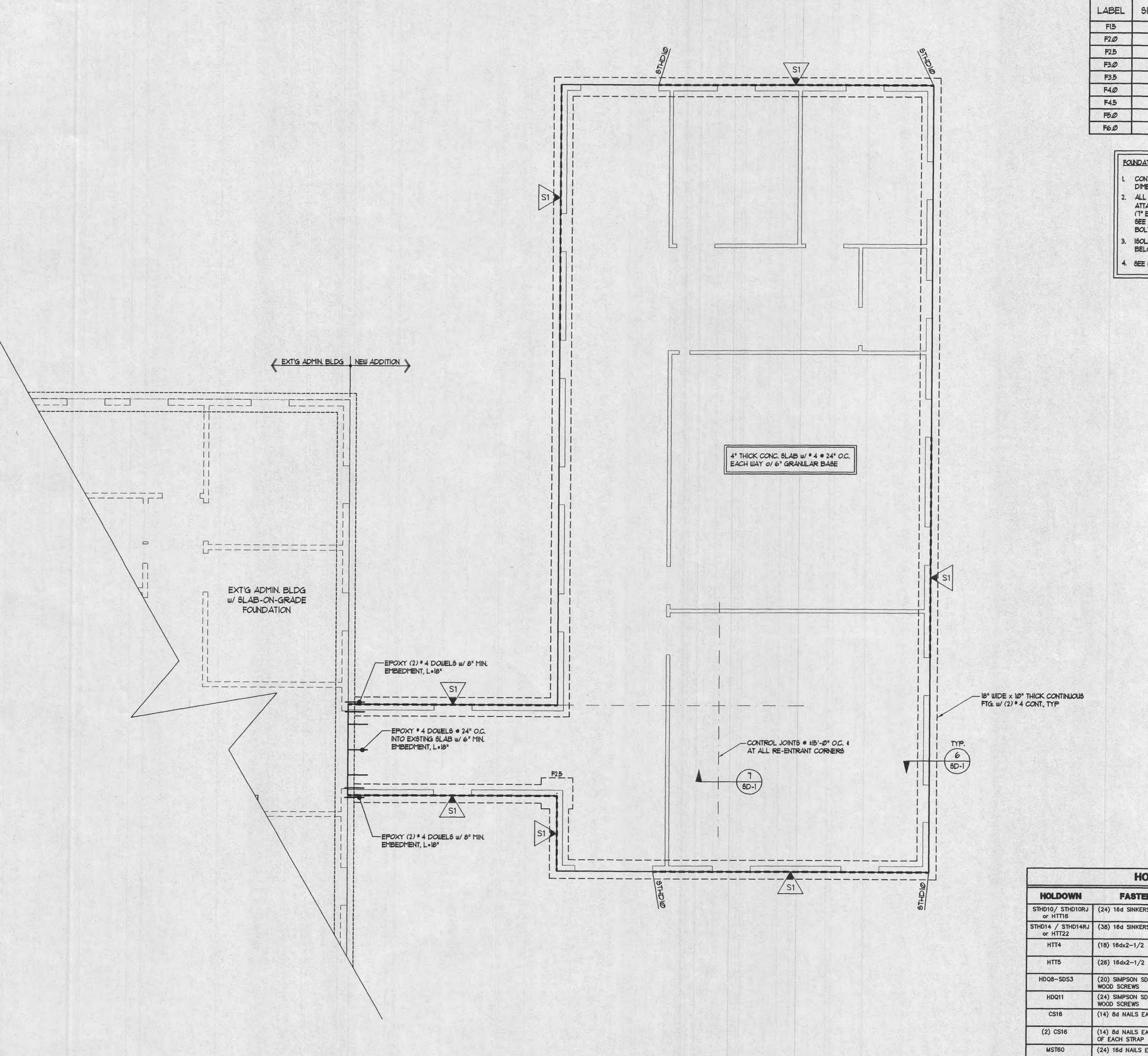
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ACADEMY ION ADDITION WAY POINT,

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FOUNDATION PLAN

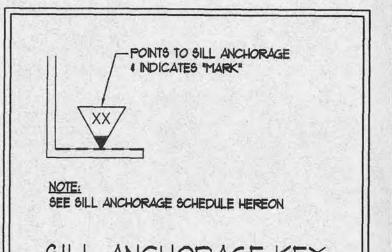
SCALE: 1/4"=1'-0"

|       | SPOT       | FOOTING SC                | HEDULE  |                    |   |
|-------|------------|---------------------------|---------|--------------------|---|
| LABEL | SIZE (IN.) | REINFORCEMENT<br>EACH WAY | SPACING | THICKNESS<br>(IN.) |   |
| FI.5  | 18         | (2) °4 BARS               | EQUAL   | 12                 |   |
| F2.0  | 24         | (3) 4 BARS                | EQUAL   | 12                 | 3 |
| F2.5  | 30         | (4) % BARS                | EQUAL   | 12                 |   |
| F3.0  | 36         | (4) % BARS                | EQUAL   | 12                 |   |
| F3.5  | 42         | (5) 4 BARS                | EQUAL   | 12                 |   |
| F4.0  | 48         | (6) 4 BARS                | EQUAL   | 12                 |   |
| F4.5  | 54         | (6) 4 BARS                | EQUAL   | 12                 |   |
| F5.0  | 60         | (1) 4 BARS                | EQUAL   | 12                 |   |
| F6.0  | 72         | (8) 4 TOP & BOT.          | EQUAL   | 18                 |   |

### FOUNDATION NOTES:

- CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- ALL EXTERIOR WALL & INTERIOR BEARING / SHEAR WALLS TO BE ATTACHED TO THE FOUNDATION W/ 12" \* X 10" DEEP ANCHOR BOLTS (7" EMBED.) AT 32" O.C., OR MAS MUDSILL ANCHORS AT 32" O.C., UNO. SEE SHEAR PLAN & SHEAR WALL SCHEDULE ON SD-1 FOR ANCHOR BOLT REQUIREMENTS AT SHEAR WALLS.
- BELOW POSTS & BEARING/SHEAR WALLS, RESPECTIVELY.
- 4. SEE HOLDOWN ANCHORAGE SCHEDULE HEREON.

| SIL  | L ANC                 | HORAG                  | E SCHE               | DULE     |
|------|-----------------------|------------------------|----------------------|----------|
| MARK | FND SILL<br>THICKNESS | 1/2" + BOLT<br>SPACING | %" ♦ BOLT<br>SPACING | CAPACITY |
| SI   | 2×                    | 32" O.C.               | 48" O.C.             | 309      |
| S2\  | 2x                    | 24" O.C.               | 32" O.C.             | 350      |
| 63   | 3x<br>2x              | 16" O.C.<br>8" O.C.    | 24" O.C.<br>12" O.C. | 600      |
| A    | 3×                    | 12" 00                 | 16" 00               | 865      |



| HOLDOWN                       | FASTENERS                                  | COMMENTS                                                                |
|-------------------------------|--------------------------------------------|-------------------------------------------------------------------------|
| STHD10/ STHD10RJ<br>or HTT16  | (24) 16d SINKERS                           | ATTACH TO (2) 2x POST ABOVE THE FLOOR DECK                              |
| STHD14 / STHD14RJ<br>or HTT22 | (38) 16d SINKERS                           | ATTACH TO (2) 2x POST ABOVE THE FLOOR DECK                              |
| HTT4                          | (18) 16dx2-1/2                             | ATTACH TO (2) 2x POST ABOVE THE FLOOR DECK                              |
| нтт5                          | (26) 16dx2-1/2                             | ATTACH TO (2) 2x POST ABOVE THE FLOOR DECK                              |
| HDQ8-SDS3                     | (20) SIMPSON SDS3 (1/4"x3")<br>WOOD SCREWS | ATTACH TO (3) 2x POST ABOVE THE FLOOR DECK                              |
| HDQ11                         | (24) SIMPSON SDS3 (1/4"x3")<br>WOOD SCREWS | ATTACH TO 6x POST ABOVE THE FLOOR DECK                                  |
| CS16                          | (14) 8d NAILS EACH END                     | ATTACH EACH STRAP TO 2x POST ABOVE AND BELOW THE FLOOR DECK, U.N.O.     |
| (2) CS16                      | (14) 8d NAILS EACH END<br>OF EACH STRAP    | ATTACH EACH STRAP TO 2x POST ABOVE AND BELOW THE FLOOR DECK, U.N.O.     |
| MST60                         | (24) 16d NAILS EACH END                    | ATTACH EACH STRAP TO (2) 2x POST ABOVE AND BELOW THE FLOOR DECK, U.N.O. |

1. ALL HOLDOWNS ARE PER SIMPSON STRONG-TIE.

2. ALL STHD STRAP HOLDOWNS SHALL HAVE (1) # 4 x 30" LONG IN FOUNDATION, PER SIMPSON CATALOG. 3. SHEARWALL EDGE NAILING SHALL BE INSTALLED TO THE SAME POSTS ON WHICH THE HOLDOWNS ARE

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### GENERAL PROJECT NOTES

- 1 ALL EXTERIOR DIMENSIONS ARE TO FACE OF WALL SHEATHING, ALL INTERIOR DIMENSIONS ARE TO FACE OF STUD.
- ALL DIAGONAL WALLS ARE AT A 45° ANGLE UNLESS NOTED

  OTHERWISE. SEE FLOOR PLANS. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- SEE STRUCTURAL CALCULATIONS FOR ADDITIONAL GENERAL STRUCTURAL NOTES AND REQUIREMENTS. ANY NOTES AND/OR REQUIREMENTS FROM STRUCTURAL ENGINEER SHALL GOVERN EXCEPT WHEN REQUIREMENTS SET FORTH IN THIS SPECIFICATION EXCEED ENGINEER'S REQUIREMENTS.

### GENERAL SITE NOTES

1 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 2009 INTERNATIONAL BUILDING CODE, 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.
- ALL EXTERIOR FOOTINGS SHALL BEAR 40" (MIN.) BELOW FINISH
  GRADE, OR UNCONDITIONED CRAWL SPACE, UNLESS NOTED
  OTHERWISE
- COORDINATE TOP OF CONCRETE & BOTTOM OF FOOTING ELEVATIONS WITH SECTIONS, FOOTING & FOUNDATION PLAN, AND ELEVATIONS.
- 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.
- (9) PROVIDE 4" GRANULAR FILL UNDER ALL SLABS.
- 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).
- 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.
- ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI DETAILING MANUAL AND CURRENT ACI STANDARDS.
- TO MINIMIZE CRACKING OF SLABS, PROVIDE #4 BARS @ 18" O.C. EACH WAY 1" CLEAR FROM TOP. TYPICAL ALL SLABS ON GRADE.
- ALL EXTERIOR FOOTINGS SHALL BE PROPERLY FORMED. INTERIOR FOOTINGS MAY BE MONOLITHIC WITH SLAB.
- 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.
- RECESS FOUNDATION AND POUR SLAB THROUGH, TYPICAL ALL GARAGE DOORS AND STORE FRONT TYPE WINDOWS AS INDICATED ON FOOTING AND FOUNDATION PLAN.
- 17) PROVIDE ISOLATION JOINTS AROUND COLUMNS, SPREAD FOOTINGS, CONTROL JOINTS, ETC. AS REQUIRED.
- HOLD DOWNS SHALL BE POSITIONED AS INDICATED BY STRUCTURAL ENGINEER. ALL HOLD DOWNS TO BE POSITIONED TO ALLOW ATTACHMENT TO FULL HEIGHT DOUBLE STUDS.
- CONTRACTOR IS RESPONSIBLE FOR PROPER LOCATING AND PLACING
  OF ALL ANCHOR BOLTS, HOLD DOWNS, ANCHORS, STRAPS, ETC.
  INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
- 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 BUILDING CODE, AND LOCAL ORDINANCES.
- CONTRACTOR TO CONSULT STRUCTURAL CALCULATIONS TO VERIFY ALL FRAMING MEMBER SIZES, LOCATIONS, LOAD PATHS, AND ADDITIONAL STRUCTURAL MEMBER REQUIREMENTS.
- ALL DIMENSIONS AND CONDITIONS TO BE VERIFIED BY BUILDER PRIOR TO ANY WORK.
- PROVIDE SHOP DRAWINGS (TO BE REVIEWED BY ARCHITECT) FOR ALL STRUCTURAL STEEL.
- FRAMING SHALL BE AS INDICATED IN STRUCTURAL PLANS. CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM ARCHITECT FOR ANY VARIATIONS FROM THESE PLANS.
- 6 ALL STRUCTURAL MEMBERS SHALL CONFORM TO THE U.S. DEPARTMENT OF COMMERCE STANDARD PS-56 AND THE INTERNATIONAL BUILDING CODE.
  - ALL STRUCTURAL PLYWOOD SHALL BE STRUCTURAL GRADE I OR STRUCTURAL GRADE II.
- 7 ALL JOISTS, RAFTERS BEAMS, HEADERS AND COLUMNS SHALL BE DOUGLAS FIR LARCH NO.2 OR BETTER, UNLESS NOTED OTHERWISE.
- 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.
- 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.
- 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.
- (11) COORDINATE SHEATHING REQUIREMENTS WITH SHEAR WALL SCHEDULES AND STRUCTURAL CALCULATIONS.
- 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.
- 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.
- SEE CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE FOR ADDITIONAL STANDARD NAILING REQUIREMENTS.

15 ALL ROOF PITCHES TO BE AS NOTED ON ROOF FRAMING PLAN.

### GENERAL ENERGY EFFICIENCY NOTES

- 1 INSULATE AT ALL FLOOR/CEILING ASSEMBLY CONNECTIONS. (I.E. BEHIND RIM BOARDS AND JOIST BEARING LOCATIONS)
- ALL EXTERIOR DOORS SHALL BE WEATHER STRIPPED AND AIR TIGHT ASSEMBLIES.
- 3 SEAL AROUND ALL ELECTRICAL, PLUMBING, OR MECHANICAL PENETRATIONS AT EXTERIOR WALL AND IN CEILING/FLOOR OR CEILING ROOF ASSEMBLIES.
- (4) CAULK AROUND ALL EXTERIOR DOOR AND WINDOW PENETRATIONS.
- 5 SEAL AND INSULATE AROUND ALL MECHANICAL DUCTS.

### THERMAL & MOISTURE PROTECTION NOTES

- 1 PROVIDE 4" PERFORATED DRAIN PIPE ON CRUSHED ROCK BED AT FOOTING PERIMETER.
- APPLY ASPHALT WATERPROOFING, OR APPROVED EQUAL, TO ALL FOUNDATION WALLS. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE FLASHING AT BASE OF ALL FRAMED WALLS. FLASHING TO DIRECT WATER TO EXTERIOR OF FOUNDATION WALL.

### GENERAL MASONRY NOTES

1 OWNER TO SELECT FINISH MASONRY MATERIALS AND COLORS.

### SITE NOTES

1) ALLOW A SUM OF \$35,000 FOR THE PURCHASE AND INSTALLATION OF THE DECORATIVE FOUNTAIN LOCATED BETWEEN THE ENTRIES OF SUITE 2 AND SUITE 3.

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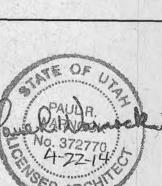
APRIL 22, 2014

**REVISIONS:** 

No.

MAY POINT ACADEMY
DMINISTRATION ADDITION
9091 EAST 100 SOUTH WEBER
COUNTY LITAH

GENERA



T1.2



REFERENCE NOTES

NOT USED.

PROVIDE UNSWITCHED HOT LEG FOR EMERGENCY LIGHTING. TO ALLOW IT TO BE SWITCHED.

3> CONNECT FIXTURE TO UNSWITCHED HOT LEG FOR EMERGENCY LTG.

CONNECT EACH FIXTURE TO A SEPARATE SWITCH.

5 EXISTING BOLLARD TO BE RELOCATED.

NEW LOCATION OF EXISTING BOLLARD. EXTEND EXISTING CIRCUIT TO NEW LOCATION.

> EXISTING DOWNLIGHT TO BE RELOCATED.

NEW LOCATION OF EXISTING DOWNLIGHT. EXTEND EXISTING CIRCUIT TO NEW LOCATION.

PROJECT NUMBER

14019

ISSUE DATE: APRIL 15, 2014

REVISIONS:

Det

Professional Engineering

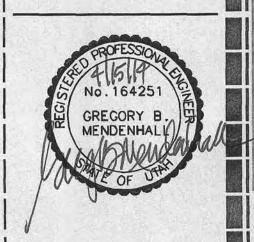
3440 West 7260 South
West Jordon, Utoh 84084
Ph: (801) 601-1178 Fox: (801) 601-1179

EMAIL: pro.eng@comcost.net
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ADMINISTRATION ADDITIC 9091 E. 100 S. WEBER COUNTY, UTAH

LIGHTING PLAN

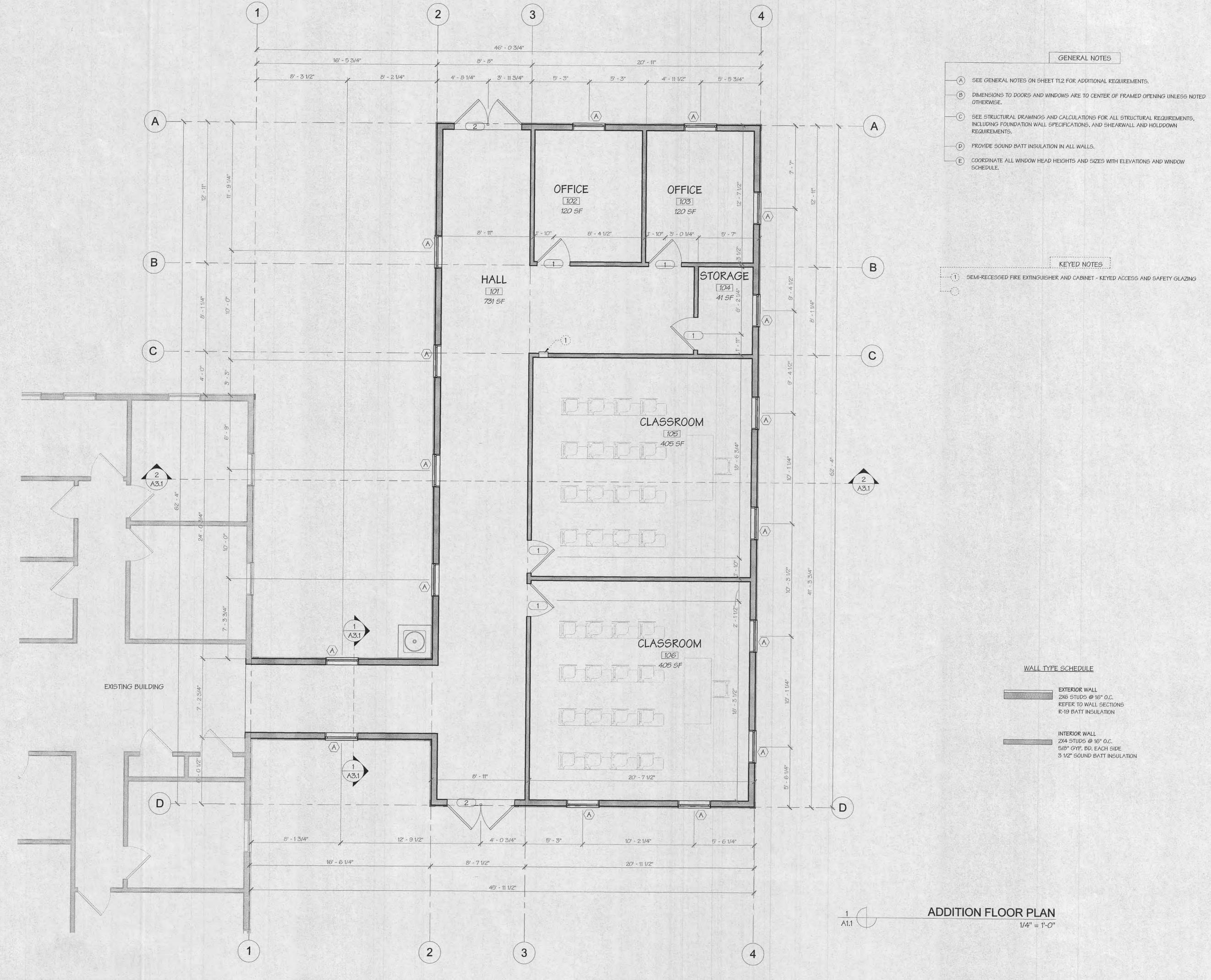
E1.1



135 EAST CENTER STREET, NORTH SALT LAKE, UTAH 84054

PHONE: (801) 936-1343

FAX: (801) 936-0180



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ISSUE DATE:

**APRIL 22, 2014** 

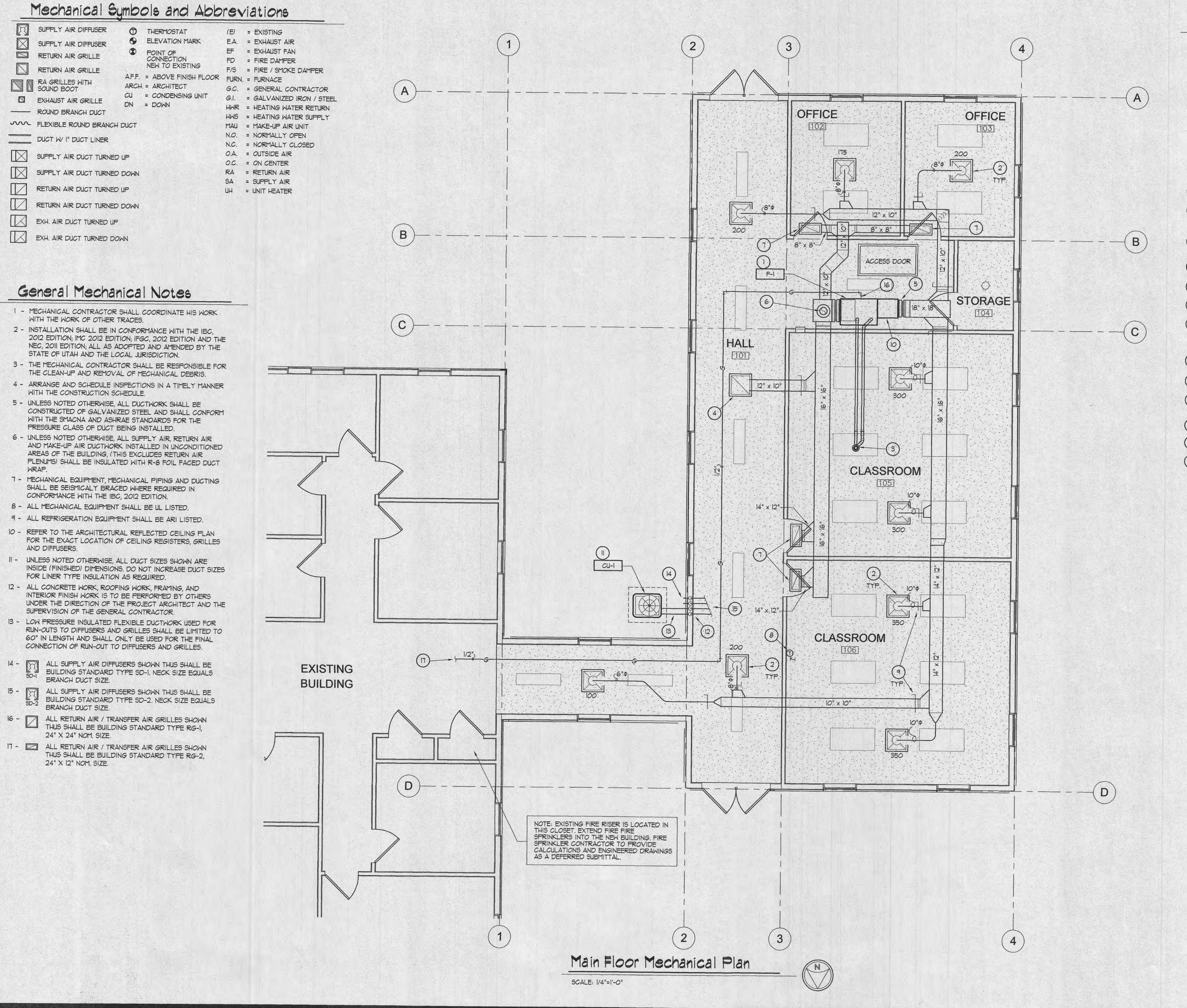
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# Keyed Reference Notes

PROVIDE AND INSTALL NEW FUEL GAS FIRED, HORIZONTAL, WARM AIR FURNACE WITH DX COOLING COIL IN ATTIC SPACE.

COORDINATE LOCATION WITH STRUCTURE AND OTHER TRADES.

SUSPEND FROM STRUCTURE OR PROVIDE PERMANENT EQUIPMENT SUPPORT. SEE EQUIPMENT SCHEDULES FOR ADDITIONAL INFORMATION. PROVIDE SECONDARY DRAIN PAN UNDER FURNACE AND RUN 3/4" DRAIN LINE FOLLOWING THE REFRIGERANT LINES.

PROVIDE AND INSTALL CEILING MOUNTED DIFFUSER FOR GYP BOARD CEILING. WHITE, 4-WAY. TITUS, NAILOR OR APPROVED EQUAL. BALANCE TO CFM SHOWN.

3 EXTEND PVC INTAKE AND EXHAUST VENTING FROM FURNACE UNIT UP THROUGH STRUCTURE AND TERMINATE ABOVE ROOF USING MANUFACTURERS CONCENTRIC VENTING KIT. COORDINATE LOCATION WITH STRUCTURE AND OTHER TRADES. MAINTAIN 10' FROM AIR INTAKE.

PROVIDE AND INSTALL 24" X 24 EGGCRATE STYLE CEILING MOUNTED RETURN AIR GRILLE IN GYP BOARD CEILING. CONNECT TO RETURN AIR DUCT. TITUS, NAILOR, OR APPROVED EQUAL.

PROVIDE FLEXIBLE DUCT CONNECTORS AT RETURN AIR AND SUPPLY AIR DUCT CONNECTIONS TO EQUIPMENT.

6 EXTEND IO" DIA OUTSIDE AIR DUCT TO CONNECT TO RETURN AIR PLENUM AT FURNACE. PROVIDE MANUAL BALANCING DAMPER AND AUTOMATIC DAMPER. BALANCE TO OA CFM SHOWN ON EQUIPMENT SCHEDULE. SEE DETAILS FOR ADDITIONAL INFORMATION.

PROVIDE AND INSTALL 24" X I2 EGGCRATE STYLE CEILING MOUNTED TRANSFER AIR GRILLE IN GYP BOARD CEILING. TITUS, NAILOR, OR APPROVED EQUAL.

8 PROVIDE PROGRAMMABLE THERMOSTAT AT 54" A.F.F. FIELD VERIFY BEST LOCATION.

9 PROVIDE HIGH EFFICIENCY TAKEOFFS WITH MANUAL VOLUME DAMPERS ON BRANCH DUCTS.

(IO) EXTEND 3/4" CONDENSATE DRAIN PIPING FOR FURNACE AC COIL TO OUTSIDE. FOLLOW DX PIPING.

PROVIDE AND INSTALL PAD MOUNTED DX CONDENSING UNIT.
PROVIDE CONCRETE EQUIPMENT PAD FOR UNIT SUPPORT, AND
ANCHOR UNIT TO PAD. COORDINATE LOCATION OF UNITS TO
PREVENT DAMAGE FROM FALLING ICE, SNOW AND DEBRIS.
COORDINATE WITH SITE WORK AND LANDSCAPING.

DROP REFRIGERANT LINES AND CONDENSATE DRAIN LINES INSIDE OF WALL.

ROUTE REFRIGERANT LINES OUT THRU WALL ABOVE GRADE TO CONDENSING UNIT. SEAL WALL PENETRATIONS WEATHERTIGHT.

ROUTE PRIMARY AND SECONDARY CONDENSATE LINES OUT THRU WALL ABOVE GRADE 12" ABOVE GRADE. SEAL WALL PENETRATIONS WEATHERTIGHT.

(15) ROUTE PIPING IN ATTIC TO FURNACE.

GONNECT GAS LINE TO FURNACE. SEE GAS REGULATOR DETAIL ON SHEET M2.1.

EXTEND NEW 1/2 2 PSI GAS LINE TO OUTLET OF EXISTING GAS METER ON EAST END OF EXISTING BUILDING. PROVIDE PROPER PIPE SUPPORTS THROUGH ATTIC OFD EXISTING BUILDING USING CLEVIS HANGERS OR MECHANICAL CHANNEL. DO NOT HANG WITH PLUMBER'S TAPE. SEE GAS SCHEMATIC DETAIL ON SHEET M2.1.

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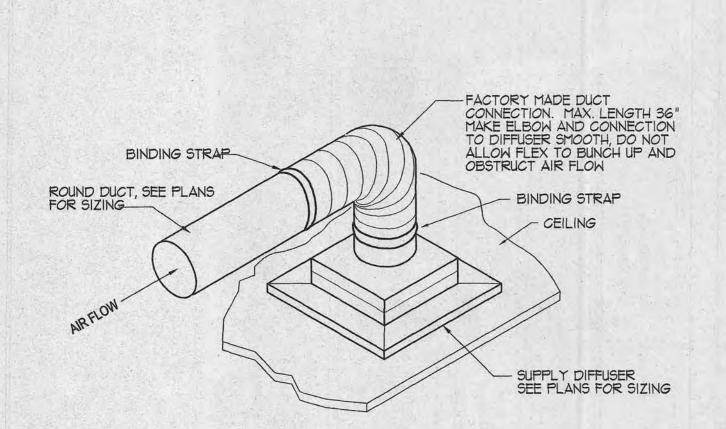
NY POINT ACADEMY
NISTRATION ADDITION
EAST 100 SOUTH WEBER

MECHANICAL MAIN FLOOR PLAN

0

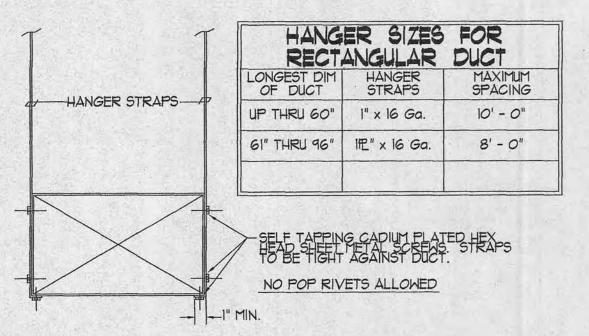
M1.1





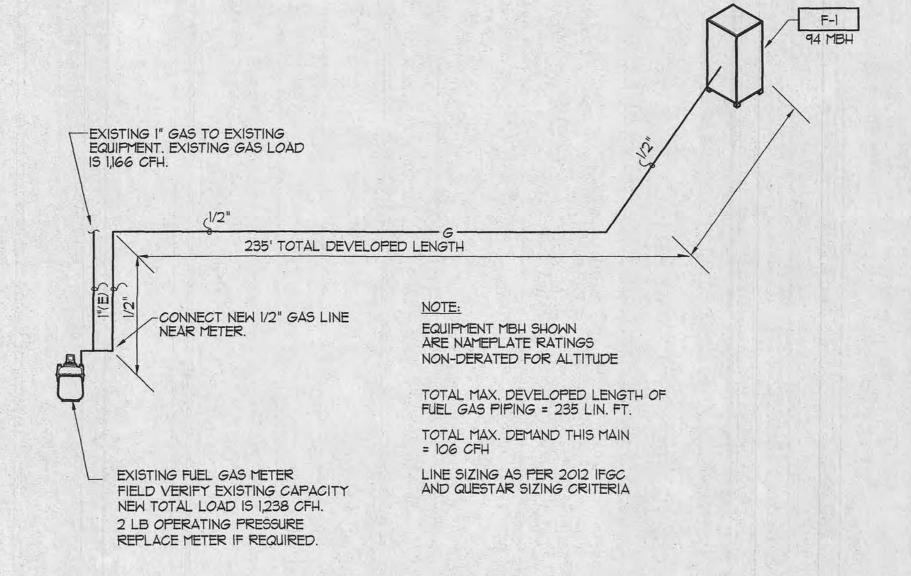
Duct Connection to Diffuser

No scale



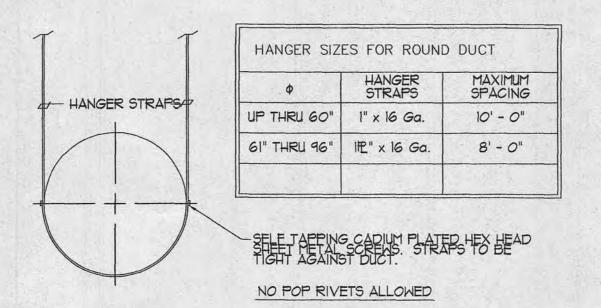
Rectangular Duct Hanger Detail

No SCALE



Fuel Gas Schematic Riser Diagram

No scale



Rectangular Duct Hanger Detail

NO SCALE

# Gas Fired Furnace / Split System

DESCRIPTION:

DOWN-FLOW POSITION GAS FIRED WARM AIR FURNACE TO BE FURNISHED COMPLETE WITH:
AUTOMATIC GAS VALVE, VENTER, ELECTRIC IGNITION, HEAT EXCHANGER, SAFETY CONTROLS, IN-SHOT BURNERS, DIRECT DRIVE BLOWER ASSEMBLY WITH HI EFF. 4 SPEED MOTOR, CABINET, FILTER RACK, ONE YEAR IGNITION PARTS WARRANTY. 162 LBS.

HEATING:

94 MBH INPUT, MULTI PORT BURNERS, ELECTRIC HOT SURFACE IGNITION. 95.0 AFUE.

SUPPLY BLOWER:
2000 CFM SUPPLY AIR, 200 CFM 0.A., 1800 RETURN AIR AT 0.6 IN. ESP. 4 SPEED, DIRECT DRIVE BLOWER, 1100 RPM 3/4 HP. 115 V. 1 PHASE 4 SPEED MOTOR.

FILTERS:

1 - 25" X 17" X 1" DISPOSABLE GLASS MEDIA FILTER.

DESCRIPTION:

HIGH EFFICIENCY SPLIT SYSTEM CONDENSING UNIT WITH MATCHED FURNACE EVAPORATOR COIL. UNIT INCLUDES:
410 REFRIGERANT; HERMETIC COMPRESSOR, MULTI-USE SERVICE VALVES, PROP. FAN, NOISE GUARD, LOW AMBIENT KIT, INTERNAL COMPRESSOR OVERLOAD PROTECTION, HEAD PRESSURE CONTROL, CRANKCASE HEATER, LIQUID LINE FILTER DRIER, FIVE YEAR LIMITED COMPRESSOR WARRANTY. 336 LBS.

COOLING:

5.0 NOMINAL TONS. 51.6 MBH NET TOTAL OUTPUT, AT ARI STANDARD INPUT CONDITIONS. 13 SEER. RATING. R-410A.

MANUFACTURERS: TRANE CO. MODEL # TDHIDIOOA9601A W/2TXCB060C OR

ENGINEER APPROVED EQUAL.

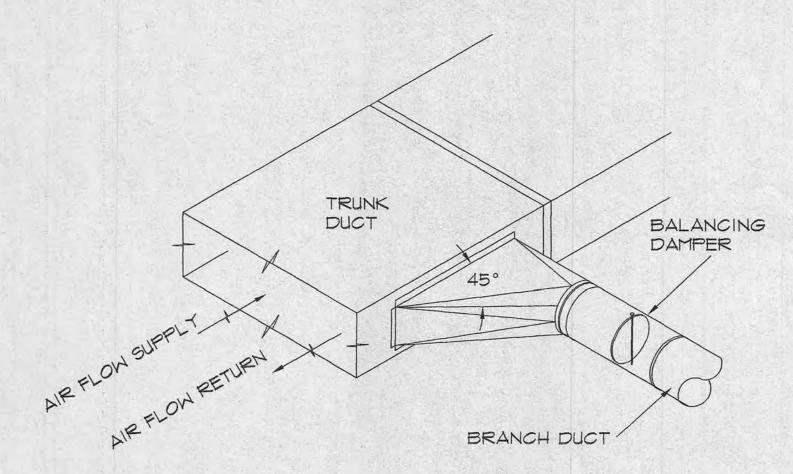
CU-I

EVAP. COIL: PROVIDE 5.0 TON CASED COIL W/ TXV MATCHED TO FURNACE UNIT.

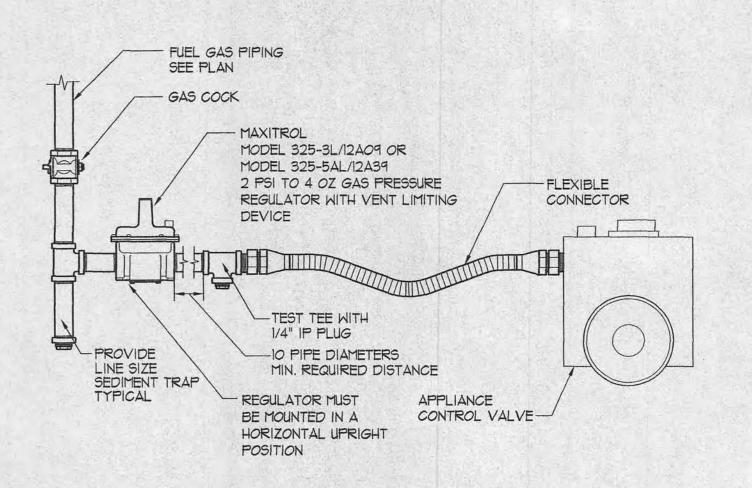
UNIT WIRING: 34 MCA, 60.0 AMP MAX FUSE AT 208-230 VOLT I-PHASE.

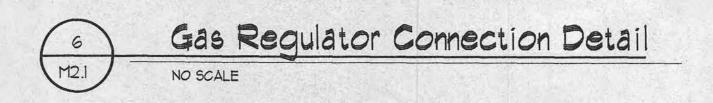
DX PIPING: 3/8" LIQUID, I 1/8" SUCTION. FIELD VERIFY LINE SIZES BASED ON

MANUFACTURERS: TRANE CO. MODEL # 4TTR3060A300A OR ENGINEER APPROVED EQUAL BY CARRIER OR DAY & NIGHT.









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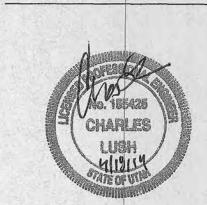
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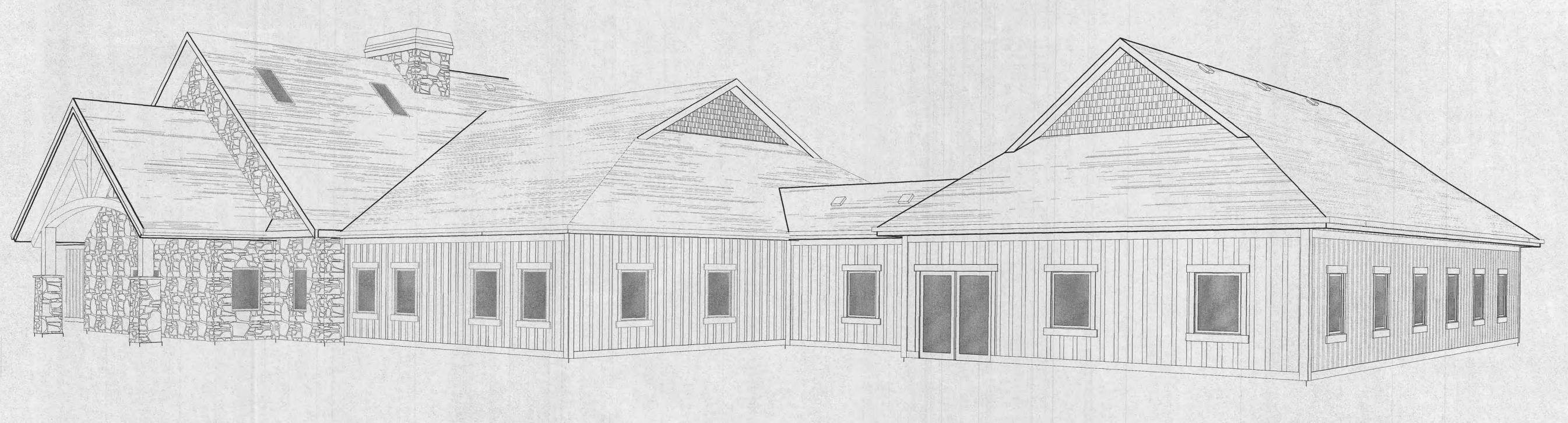
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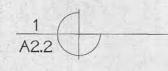
MECHANICAL SCEDULES AND DETAILS

M2.1









PERSPECTIVE



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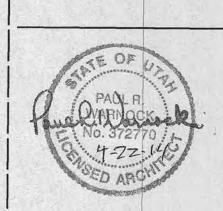
ISSUE DATE: APRIL 22, 2014

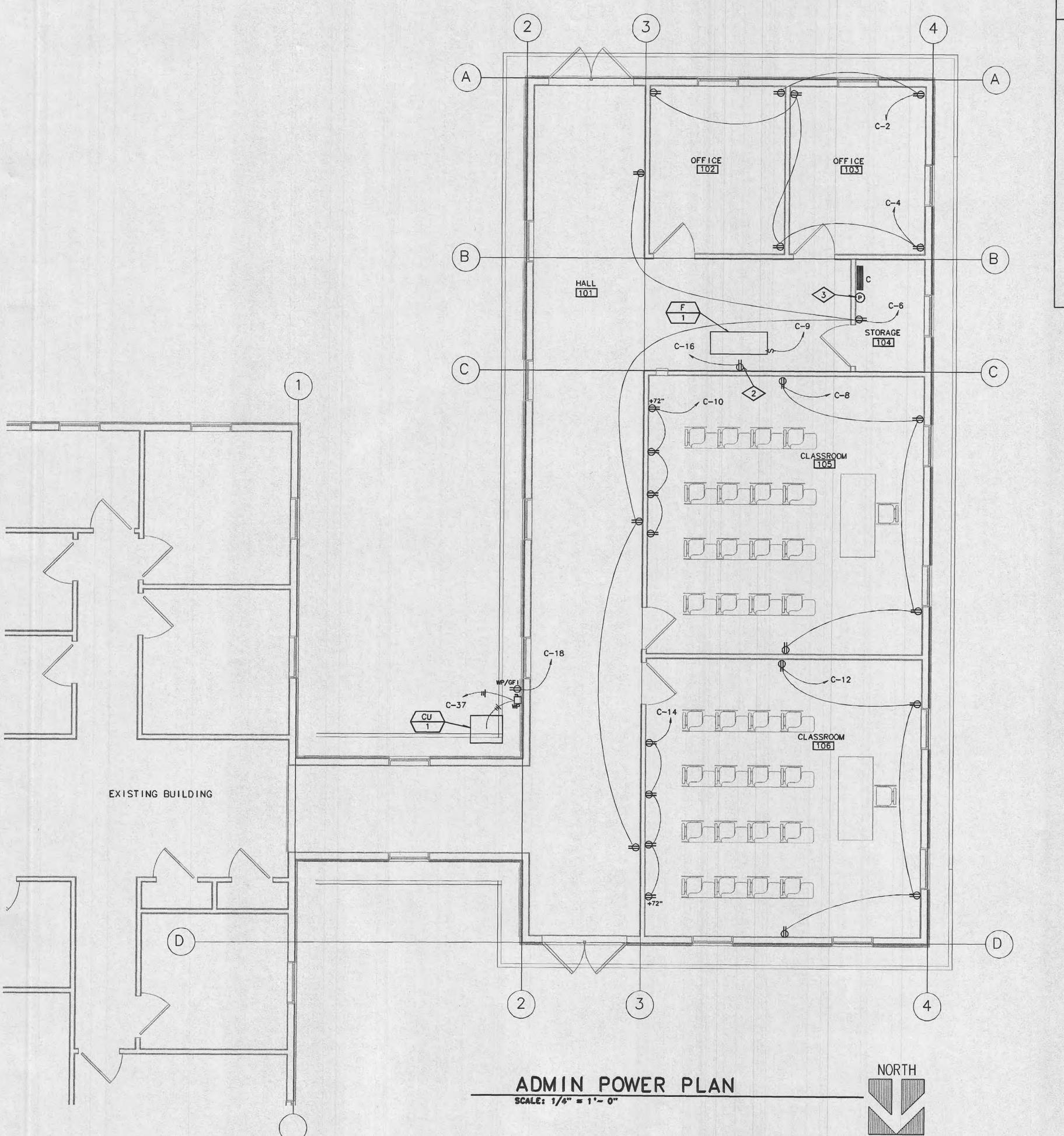
**REVISIONS:** 

Date

ADMINISTRATION ADDITION

A2.2





REFERENCE

NOTES

WEATHERPROOF GFI OUTLET MOUNTED ON BOTTOM SIDE OF DISCONNECT.

2 OUTLET MOUNTED ON MECH. PLATFORM FOR SERVICE.

3> PHOTOCELL MOUNTED ON ROOF FACING NORTH.

PROJECT NUMBER

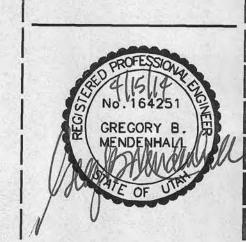
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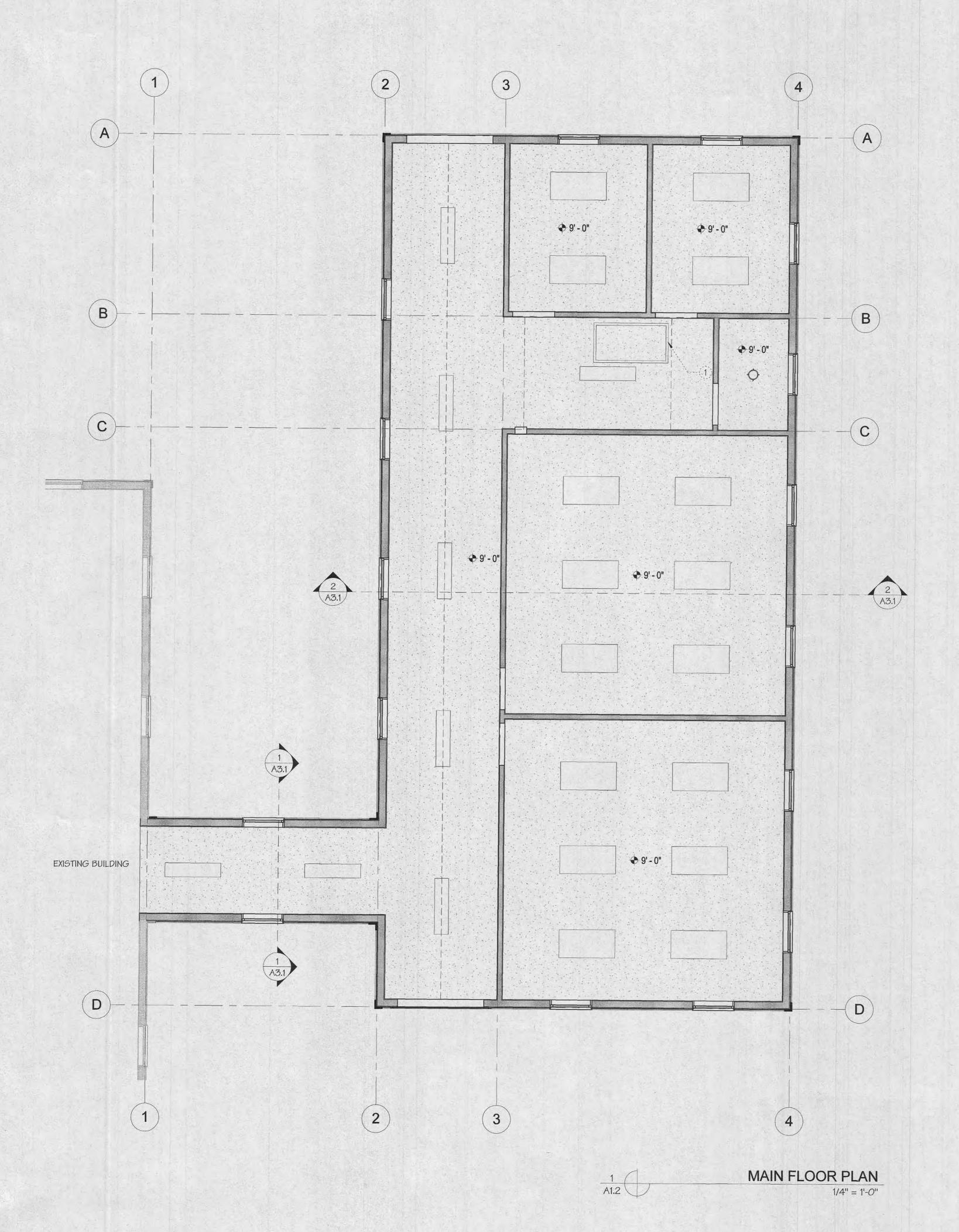
ISSUE DATE: APRIL 15, 2014 **REVISIONS:** 

ADEMY ADDITION

POWER PLAN

E2.1





KEYED NOTES 30" X 60"ATTIC ACCESS DOOR WITH LADDER CEILING LEGEND 5/8" GYPSUM BOARD CEILING - PAINT 2 x 4 FLOURESCENT LAMP 1 x 4 FLOURESCENT LAMP

LED DOWNLIGHT

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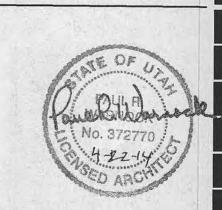
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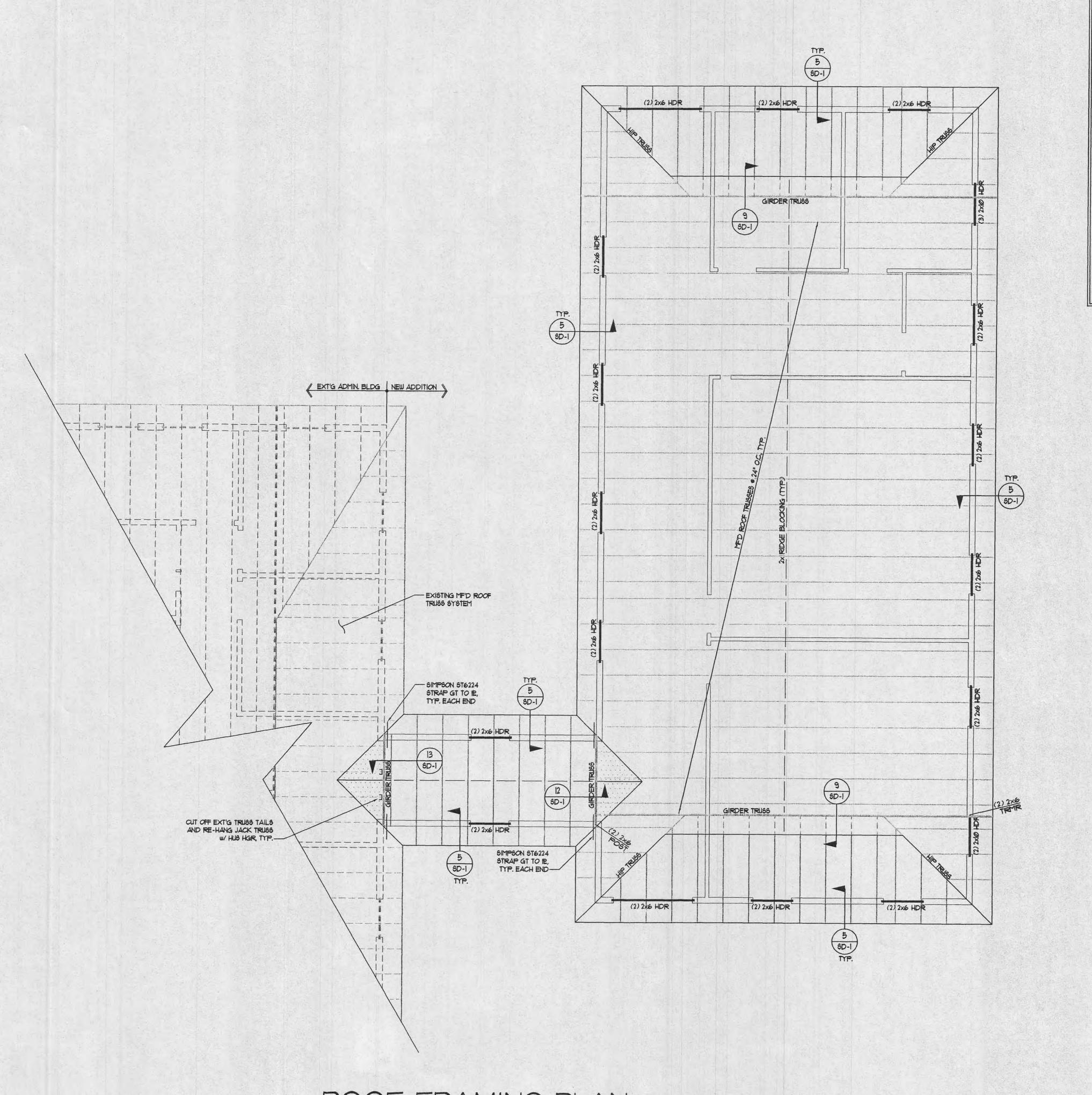
**APRIL 22, 2014** 

**REVISIONS:** 

Date

A1.2





FRAMING NOTES:

ALL EXTERIOR WALLS & INTERIOR BRIG & SHEAR WALLS TO BE 2x6 . 16" O.C. DFL-STUD GRADE, UN.O.

2. FOR 2x4 FRAMED WALLS & HEADERS (HDR): A. PROVIDE (1) 2x4 TRIMMER & (1) 2x4 KING STUD AT OPENINGS

C -0" UNO.
 PROVIDE (2) 2x4 TRIMMERS (1) 2x4 KING STUDS AT OPENINGS ≥ 6'-0" (1 ≤ 10'-0" UNO.
 PROVIDE (2) 2x4 TRIMMERS (3) 2x4 KING STUDS AT OPENINGS ≥ 10'-0" (1 ≤ 18'-0" UNO. (1) KING STUD REQ'D AT BAY WINDOW OPENINGS (1) AT GARAGE OPENINGS WHERE ADD'L KING STUDS WOULD NOT FIT.

NOTE: KINGSTUDS NOT REQUIRED AT BEAMS (BM). FOR 2x6 FRAMED WALLS & HEADERS (HDR):

A. PROVIDE (1) 2x6 TRIMMER 4 (1) 2x6 KING STUD AT OPENINGS

B. PROVIDE (2) 2x6 TRIMMERS (2) 2x6 KING STUDS AT OPENINGS ≥ 8'-0" 4 ≤ 12'-0" UNO.

C. PROVIDE (2) 2x6 TRIMMERS & (3) 2x6 KING STUDS AT OPENINGS  $\geq$  12'-0" 4  $\leq$  20'-0" UNO.

NOTE: KINGSTUDS NOT REQUIRED AT BEAMS (BM). 4. FACE NAIL MULTIPLE 2x POSTS WITH 16d SINKERS AT 6" O.C.

5. SHADED AREAS ARE TYPICAL OVERFILL, STICK FRAMED PER TYPICAL OVERBUILD FRAMING DETAIL OR OVERBUILD TRUSSES PER TRUSS MFG. SHEATH MAIN TRUSSES ENTIRELY BELOW OVERBUILD.

6. MITERIOR BEARING WALLS

1. ALL GLULAM BEAMS TO HAVE STANDARD CAMBER (R = 2000') UNO. PROVIDE (2) 2x POST, EACH END OF ALL BEAMS & GIRDER TRUSSES,

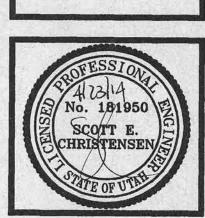
BEAM AND HEADER SIZES INDICATED ON THE PLANS ARE MIN. SIZES. LARGER SIZES MAY BE INSTALLED AT THE CONTRACTORS

10. CONTINUOUS TOP PLATE MAY BE USED IN LIEU OF \$16224 STRAP FROM BEAM TO PLATE.

CONTACT ENGINEER OF RECORD IF TRUSS LAYOUT VARIES FROM



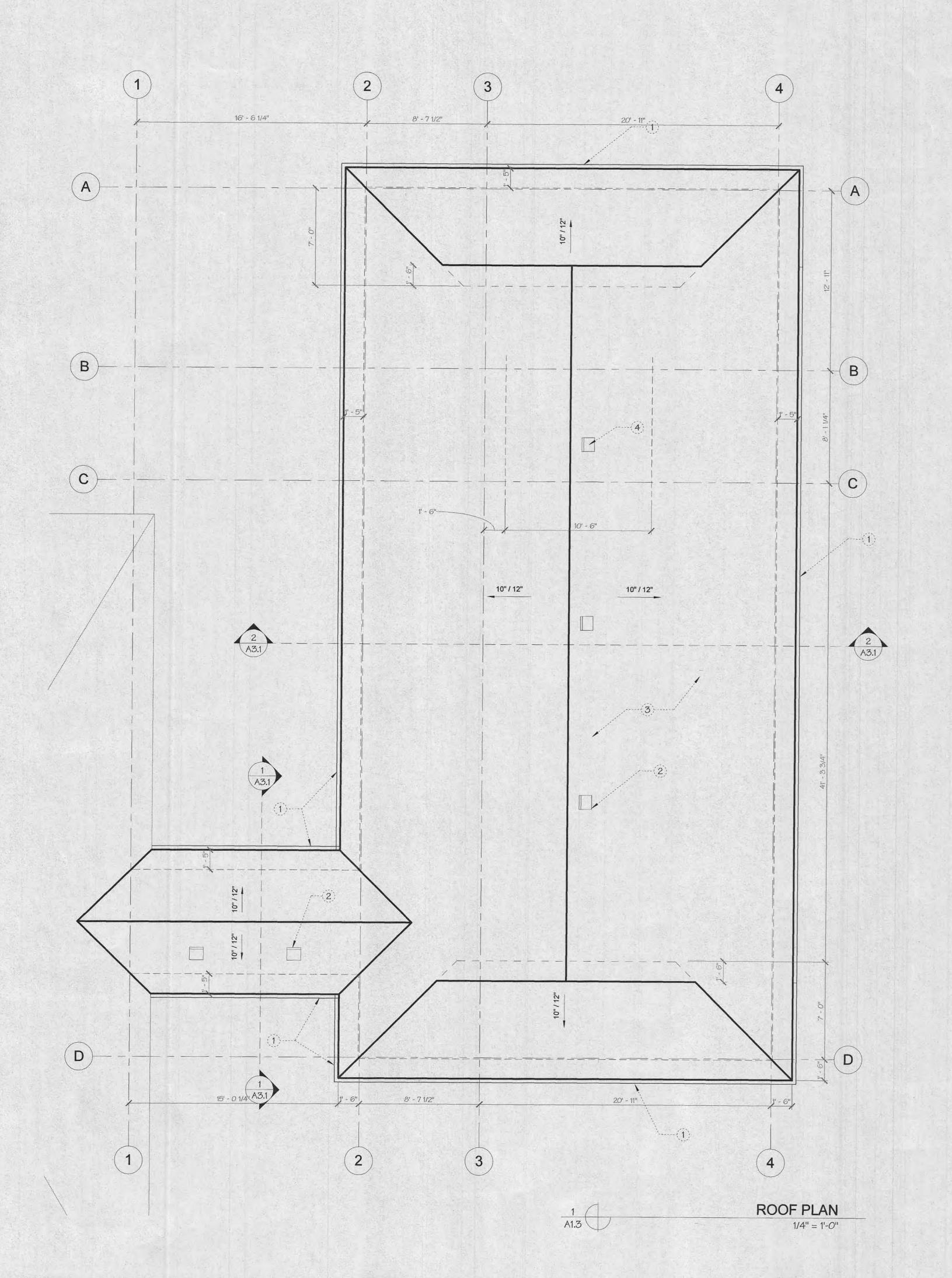
COUNTY 9091



S0674-002-141

ROOF FRAMING PLAN

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



14019

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KEYED NOTES

GAF-ELK PREMIUM SHINGLES. 40 YEAR ARCHITECTURAL GRADE WITH UL LISTED WIND RESISTANCE AND CLASS "A" FIRE RATING OVER 30# FELT. PROVIDE ICE AND WATER SHIELD AT EACH VALLEY (4'-O" EACH SIDE AND 4'-O" AT ROOF PERIMETER). TO MATCH EXISTING STRUCTURE.

PRE-FINISHED RAIN GUTTERS WITH DOWN SPOUTS, CONNECT TO STORM DRAIN SYSTEM

TURTLE VENTS, PROVIDE MIN. 11 SF AT RIDGE AND 11 ST AT SOFFIT

4) ATTIC MECHANICAL

A1.3



135 EAST CENTER STREET, NORTH SALT LAKE, UTAH 84054

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WINDOW SCHEDULE

WIDTH HEIGHT WINDOW HEAD HEIGHT REMARKS 6' - 8" 4' - 0" FIXED

ROOM SCHEDULE

| ROOM # | ROOM NAME | FLOOR            | WALLS           | BASE               | CEILING  | NOTES |
|--------|-----------|------------------|-----------------|--------------------|----------|-------|
| 101    | HALL      | STAINED CONCRETE | GYP. BD.        | WOOD STAIN CRADE   | Cya pp   |       |
| 102    | OFFICE    | CARPET           | GYP. BD.        | WOOD - STAIN GRADE | GYP. BD. |       |
| 103    | OFFICE    | CARPET           | GYP. BD.        | CARPET             | GYP. BD. |       |
| 104    | STORAGE   |                  |                 |                    | 011.00.  |       |
| 105    | CLASSROOM | STAINED CONCRETE | GYP. BD. / TILE | 4" TILE            | GYP. BD. |       |
| 106    | CLASSROOM | STAINED CONCRETE | GYP. BD. / TILE | 4" TILE            | GYP. BD. |       |

DOOR SCHEDULE

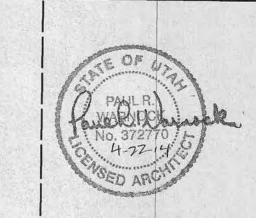
| DOOR # | DOOR SIZE         | TYPE              | THICKNESS | DOOR FINISH     | FRAME | FRAME | REMARKS                                     |
|--------|-------------------|-------------------|-----------|-----------------|-------|-------|---------------------------------------------|
| 1      | 3'-0" x 6'-8"     | WOOD              | 15/8"     | STAIN           | WOOD  | STAIN |                                             |
| 2      | (2) 3'-0" x 6'-8" | WOOD CLAD / GLASS | 1 5/8"    | FACTORY / STAIN | WOOD  |       | CENTER ASTRAGAL AND PANIC HARDWARE REQUIRED |

PROJECT NUMBER 14019

ISSUE DATE: APRIL 22, 2014

**REVISIONS:** 

A4.1



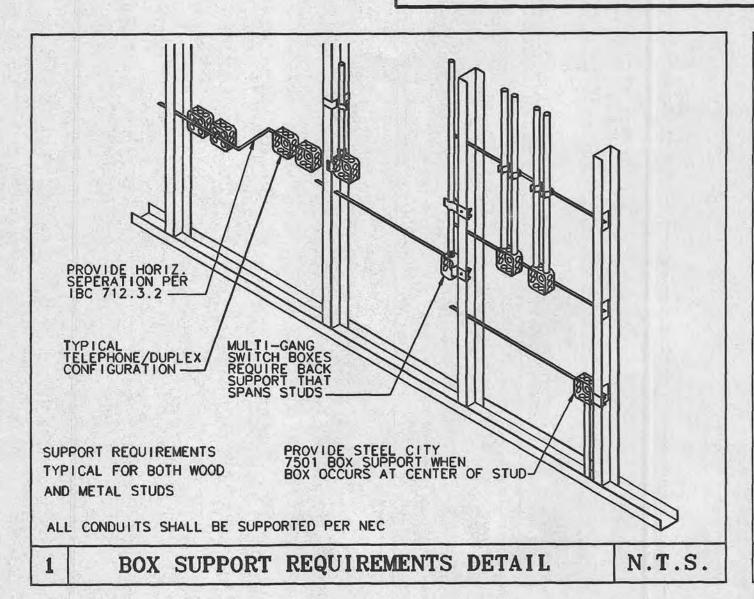
|                               |             | E          | QUI     | PME   | NT         | DATA |            |            |         |           | STA        | RTER       | DAT        | A          |            |               | 1            | D    | ISCO | NNE         | CT       | CO        | NTRO    | LS            |
|-------------------------------|-------------|------------|---------|-------|------------|------|------------|------------|---------|-----------|------------|------------|------------|------------|------------|---------------|--------------|------|------|-------------|----------|-----------|---------|---------------|
| HVAC<br>EQUIPMENT<br>SCHEDULE | NO.         |            |         |       | CONDUCTORS |      | CONDUCTORS | CONDUIT    |         |           | SPEEDS     | VOLTAGE    | SWITCH     |            |            | CTS           | CTS          |      |      | N W/STARTER |          | WITH      |         | CONNECTION BY |
| NAME OF<br>EQUIPMENT          | EQUIPMENT N | HORSEPOWER | VOLTAGE | PHASE | NO. OF CON | AMPS | SIZE OF CO | SIZE OF CO | BREAKER | NEMA SIZE | NO. OF SPE | CONTROL VO | SELECTOR S | PUSHBUTTON | PILOT LAMP | N.O. CONTACTS | N.C. CONTACT | SIZE | WP   | COMBINATION | FUSED AT | INTERLOCK | CONTROL | FINAL CONN    |
| URNACE                        | F-1         | 3/4        | 120     | 1     | 2          | 16.0 | 12         | 3/4"       | 25      | MAN       |            |            |            |            |            |               |              | 20   |      |             | NF       | CU1       | 0       | ELEC          |
| CONDENSING UNIT               | CU-1        |            | 208     | 1     | 2          | 34.0 | 6          | 1"         | 60      | FE        |            |            |            |            | H          |               |              | 60   | •    |             | NF       | F-1       | ①       | ELEC          |
|                               |             |            |         |       |            |      |            |            |         |           |            |            |            |            |            |               |              |      |      |             |          |           |         |               |

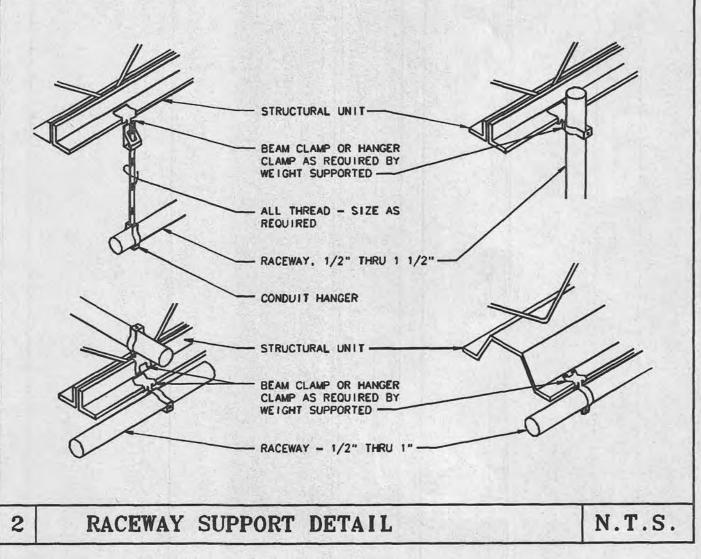
CABLE

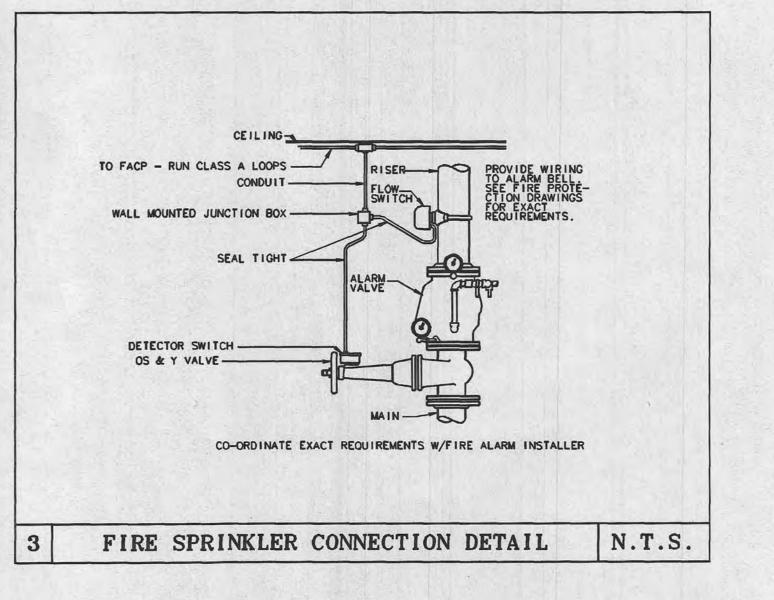
| SYMBOL | CATALOG No.                          | & DESCRIPTION                                                                             | MOUNTING | LAMPS                   |
|--------|--------------------------------------|-------------------------------------------------------------------------------------------|----------|-------------------------|
| A      | DAYBRITE BWN 232 120 1/2EB           | 4' FLUORESCENT WRAPAROUND W/ACRYLIC LENS 2 LAMPS WIDE.                                    | SURFACE  | (2)F32T8/841            |
| AX     | DAYBRITE BWN 232 120 1/2EB E5        | SAME AS "A" EXCEPT WITH EMERGENCY BATTERY PACK AND CHARGER.                               | SURFACE  | (2)F32T8/841            |
| B      | DAYBRITE 2S3P 232 26 SL 120 1/2EB    | 2 X 4 FLUORESCENT PARALOUVER 2 LAMPS WIDE.                                                | SURFACE  | (2)F32T8/841            |
| BX     | DAYBRITE 2S3P 232 26 SL 120 1/2EB E5 | SAME AS "B" EXCEPT WITH EMERGENCY BATTERY PACK AND CHARGER.                               | SURFACE  | (2)F32T8/841            |
| 0      | LITHONIA OLVTCM                      | LED VAPOR TIGHT FIXTURE MOUNTED ON CEILING                                                | SURFACE  | FURNISHED W/FIXTURE     |
| Œ      | NORALIGHTING NHIC6-LEDAT-30-W-W      | 6" LED DOWNLIGHT U.L. LISTED FOR THRU WIRING AND WET LABEL W/WHITE TRIM AND WHITE BAFFLE. | RECESSED | FURNISHED W/<br>FIXTURE |
| EX     | NORALIGHTING NHIC6-LEDAT-30-W-W-EM   | SAME AS "E" EXCEPT W/ EMERGENCY<br>BATTERY PACK AND CHARGER.                              | RECESSED | FURNISHED W/<br>FIXTURE |
| (X1)   | McPHILBEN CXXL 3G W                  | 6" LED EXIT SIGN W/INTIGRAL BATTERY PACK UNIVERSAL MOUNT AND GREEN LETTERS.               | SURFACE  | FURNISHED W/FIXTURE     |

# GENERAL NOTES

- 1- CO-ORDINATE EXACT LOCATIONS AND QUANTITIES OF LIGHTING FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- 2- VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-IN. CONSULT ALL APPLICABLE DRAWINGS AND SHOP DRAWINGS TO INSURE NEC REQUIRED CLEARANCES ADJACENT TO ELECTRICAL EQUIPMENT.
- 3- CHECK SHOP DRAWINGS FOR ROUGH-IN LOCATIONS OF ALL EQUIPMENT.
- 4- CO-ORDINATE WITH THE MECHANICAL SUB-CONTRACTORS SO THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL SYSTEM SHALL BE PERMITTED TO BE INSTALLED IN, ENTERM OR PASS THROUGH ELECTRICAL ROOMS OR SPACES; OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- 5- SEAL ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- 6- ALL WORK SHALL COMPLY WITH 2008 N.E.C.
- 7- MULTIWIRE BRANCH CIRCUITS SHALL BE GROUPED IN PANEL PER NEC 210.4(D). PROVIDE SIMULTANEOUS DISCONNECTING MEANS PER NEC 240.4(B).







| Ш                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                     | 1 CIRCUIT-2WIRE HOME RUN TO PANEL                                      |                    |                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------|--------------------|---------------------------------|
| Ī                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1                     | 2 CIRCUIT-3 WIRE-COMMON NEUTRAL HOME                                   | 1.5                |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1111                  | 3 CIRCUIT-4 WIRE-COMMON NEUTRAL HOME RUN                               |                    |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | CONDUIT RUN IN WALL OR CEILING                                         |                    |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | CONDUIT RUN IN FLOOR OR GROUND                                         |                    |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | CONDUIT UP                                                             |                    |                                 |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       | CONDUIT DOWN                                                           |                    |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SYMBOL                | DESCRIPTION                                                            | MOUNTING<br>HEIGHT | NOTES                           |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0                     | CEILING LIGHT FIXTURE                                                  | CEILING            | (1),(2)                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ю                     | WALL LIGHT FIXTURE                                                     | AS NOTED           |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | O                     | RECESSED INCANDESCENT OR HID. FIXTURE                                  | CEILING            |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | FLUORESCENT LIGHT FIXTURE                                              | AS NOTED           |                                 |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       | FLUORESCENT EGRESS LIGHT                                               | AS NOTED           | UNSWITCHED (1),(2)              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8                     | CEILING MOUNTED EXIT LIGHT                                             | CEILING            | (1),(2)                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ⊦⊗                    | WALL MOUNTED EXIT LIGHT                                                | AS NOTED           | (1),(2),(4)                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | oş.                   | SINGLE POLE SWITCH                                                     | +42"               | (3),(4)                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | į.                    | THREE WAY SWITCH                                                       | +42"               | (4)                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$                    | SWITCH & PILOT LIGHT                                                   | +42"               |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | \$                    | SINGLE POLE SWITCH                                                     | CEILING            |                                 |
| The second second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ¥M<br>\$ <sub>T</sub> |                                                                        |                    | (4)                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ш                     | THERMAL OVERLOAD SWITCH & PILOT LIGHT                                  | +42"               |                                 |
| The same of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | #                     | OUADRAPLEX OUTLET ISOLATED GROUND QUADRAPLEX                           | +1'-4"             |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                                                                        | +1'-4"             |                                 |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4                     | ISOLATED GROUND DUPLEX OUTLET DUPLEX RECEPTACLE MOUNTED ABOVE STANDARD |                    | (4)                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ~~                    | HE I GHT                                                               | +4'-4"             | (4)                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | GF I                  | DUPLEX OUTLET W/GROUND FAULT INTERRUPTER                               |                    |                                 |
| No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       | DUPLEX RECEPTACLE                                                      | +1'-4"             |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | WEATHERPROOF RECEPTACLE                                                | +2'-0"             | STUB 3/4" CONDUIT               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>4</b>              | TELEPHONE OUTLET                                                       | +1'-4"             | ABOVE CEILING STUB 3/4" CONDUIT |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | 2 TELEPHONE/1 DATA OUTLET                                              | +1'-4"             | ABOVE CEILING STUB 3/4" CONDUIT |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | DATA OUTLET                                                            | +1'-4"             | ABOVE CEILING                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u> </u>              | JUNCTION BOX                                                           | AS NOTED           |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •                     | MOTOR OUTLET                                                           | SUIT EQUIP.        |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | PANELBOARD                                                             | TOP @6'-6"         | STUB 3/4" CONDUIT               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | TV OUTLET                                                              | F7'-0"             | ABOVÉ CEILING                   |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       | MAIN DISTRIBUTION PANEL                                                |                    |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | DISCONNECT SWITCH ('F' FUSED) MAGNETIC STARTER                         | +5'-0"             | SIZE TO                         |
| 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                                                                        |                    | EQUIP.                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u>D</u> '            | MAGNETIC STARTER/DISC                                                  | +5'-0"             |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | TELEPHONE TERMINAL BOARD                                               | FLOOR              | SEE NOTE                        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u> </u>              | FLOOR OUTLET WITH POWER/DATA                                           |                    |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       | PANELBOARD                                                             | TOP @6'-6"         | (1)                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ①                     | THERMOSTAT                                                             | +42"               | (4)                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 123                   | ARCHITECTURAL ROOM NO.                                                 |                    |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                     | EQUIPMENT NO. FOR HVAC EQUIPMENT                                       |                    | SEE LIGHTING                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A                     | LIGHT FIXTURE TYPE                                                     | APOVE              | FIXTURE SCHEDULE                |
| The state of the s | x—x—                  | PLUGMOLD MULTI-CIRCUIT                                                 | ABOVE<br>COUNTER   | SEE NOTE                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | E                     | FIRE ALARM MANUAL STATION                                              | +4'-0"             |                                 |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | F                     | FIRE ALARM COMBINATION HORN/STROBE                                     | 6" BELOW CLG       |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ⊚s                    | SMOKE DETECTOR                                                         | CEILING            |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FACP                  | FIRE ALARM CONTROL PANEL                                               | TOP AT<br>+6'-0"   |                                 |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       | FIRE ALARM MINI STROBE                                                 | 6" BELOW CLG       |                                 |

ELECTRICAL SYMBOL SCHEDULE

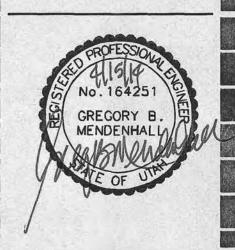
- (1) SEE FIXTURE SCHEDULE
- (2) PROVIDE JUNCTION BOX ADJACENT TO FIXTURE PROVIDE WIRING TO FIXTURE
- (3) SUPERSCRIPT INDICATES FIXTURES CONTROLLED BY SWITCH
- (4) MOUNTING HEIGHT IS TO BOTTOM OF BOX

PROJECT NUMBER 225041

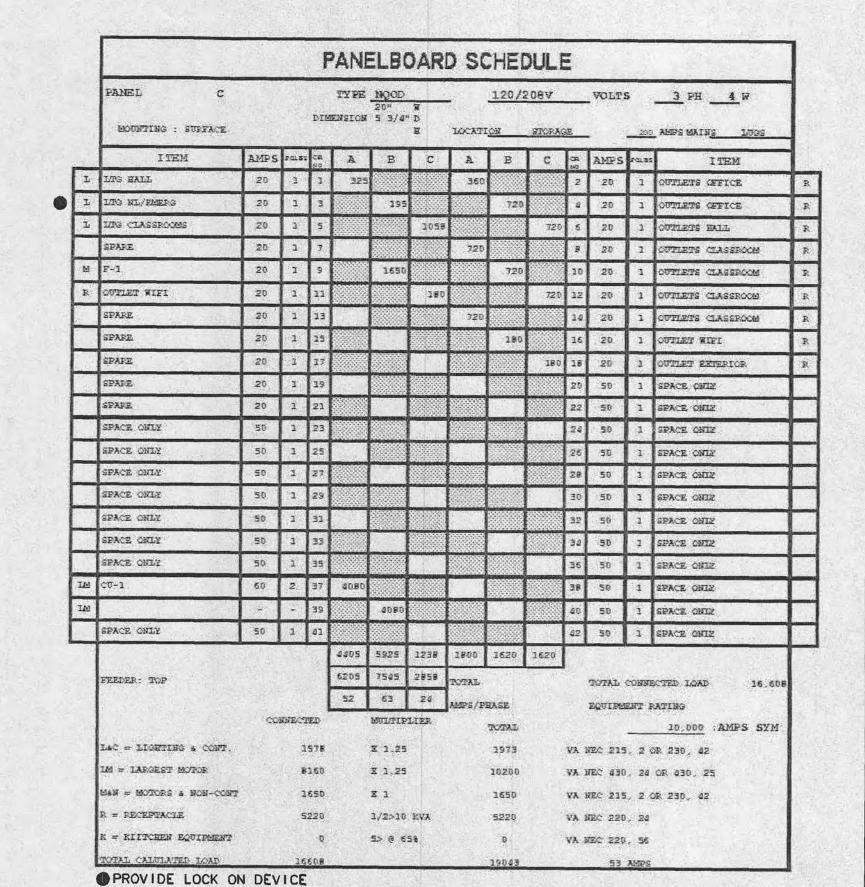
**REVISIONS:** 

ISSUE DATE: APRIL 15, 2014

E0.1







ELECTRICAL LOAD CALCULATION
GREEN VALLEY ADMIN BUILDING

EXISTING PANEL "A" = 54.057

EXISTING PANEL "B" = 55.154

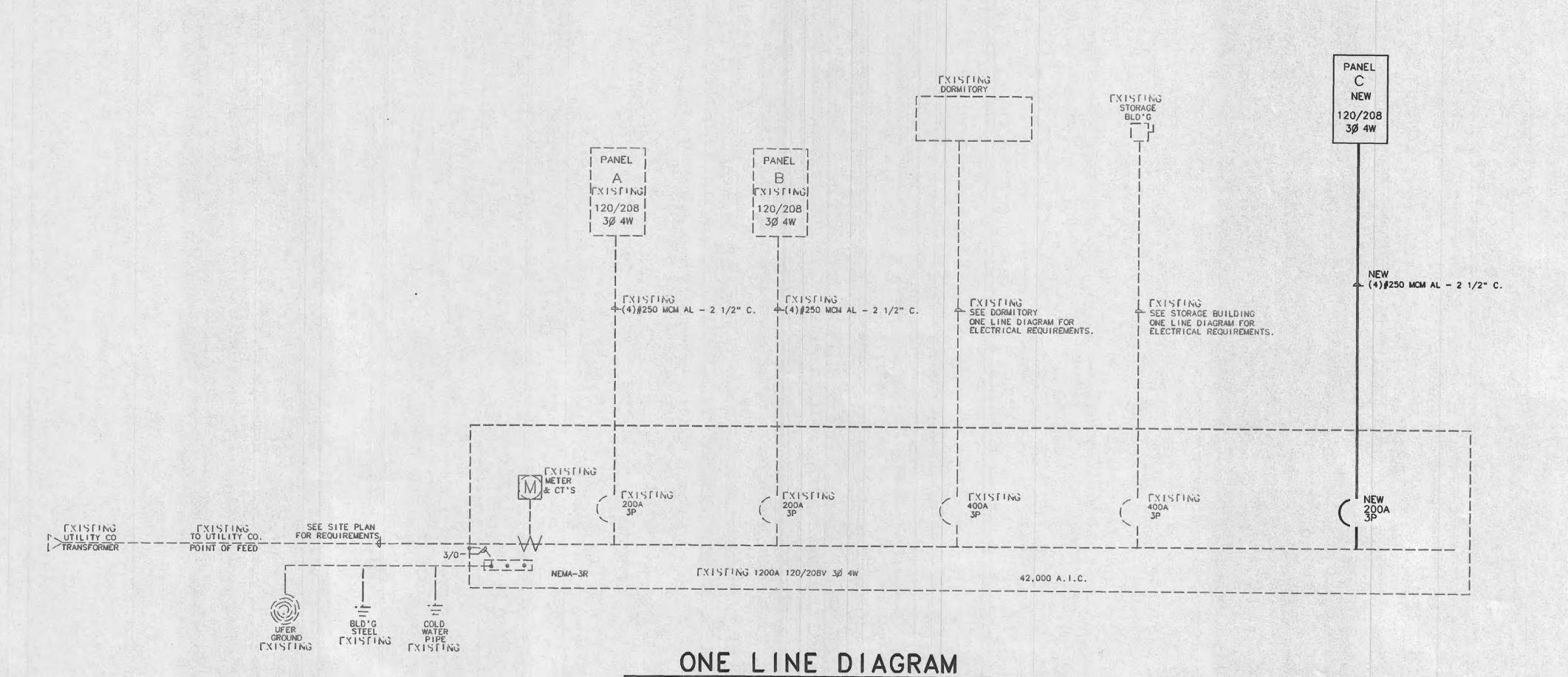
EXISTING PANEL "CA" = 55.154

EXISTING DORMITORY = 86.266

EXISTING STORAGE = 36,474

NEW PANEL "C" = 16,010

247.961/360 = 689A ON A 1200A SERVICE



SCALE: N.T.S.

PROJECT NUMBER 14019 225041

ISSUE DATE: APRIL 15, 2014

REVISIONS:

Professional Engineering

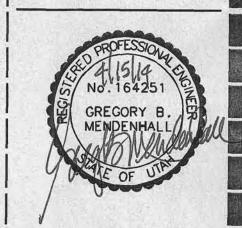
3440 West 7260 South
West Jordan, Utoh 84084
Ph: (801) 601-1178 Fax: (801) 601-1179
EMAIL: pro.engocomcast.net
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THESE DOCUMENTS SHALL BE PERMITTED UNLESS AUTHORIZED IN
MINITIME BY PROPERSIONAL ENGINEERING SERVICES WITH
APPROPRIBATE DESPENSATION.

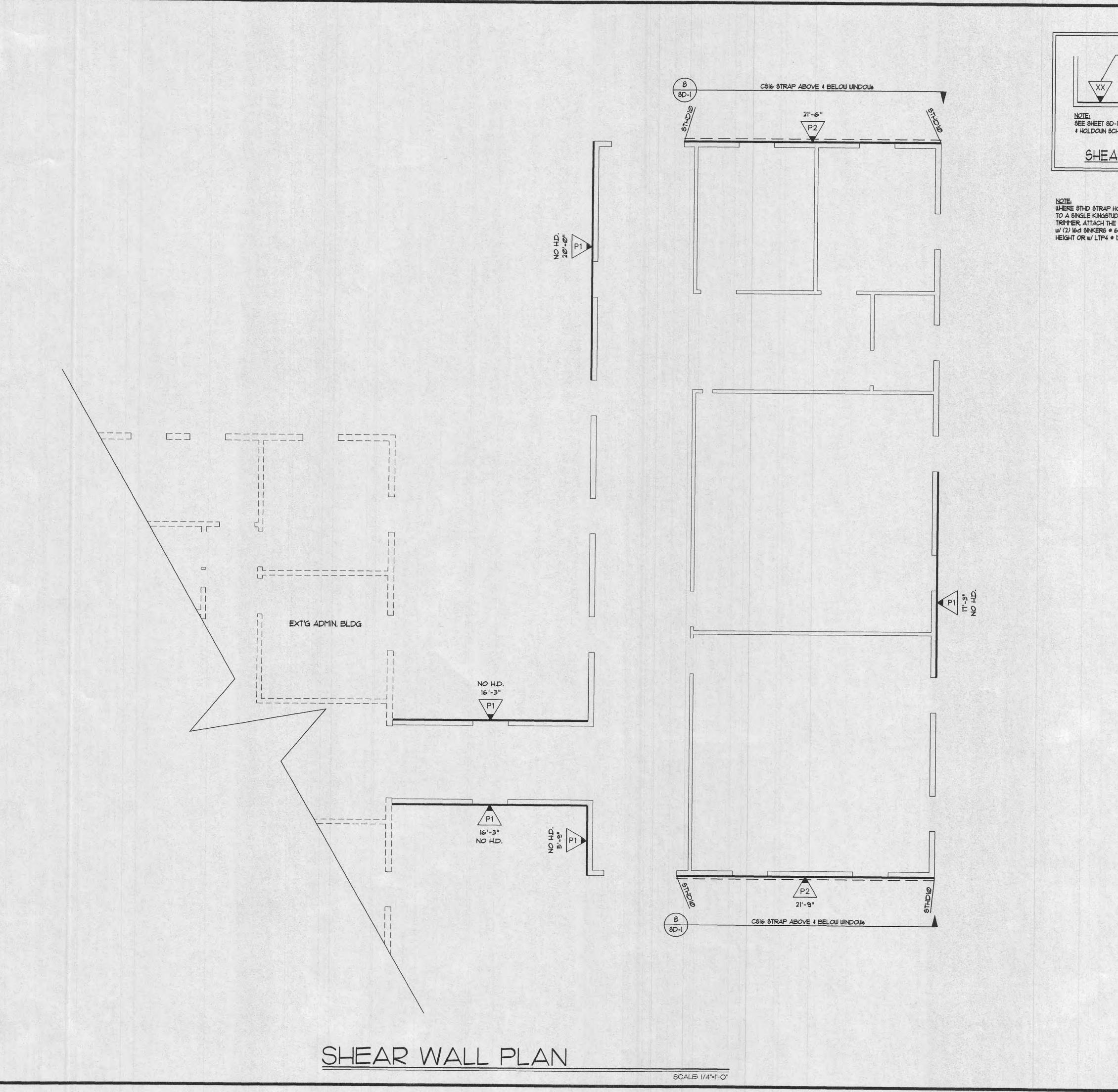
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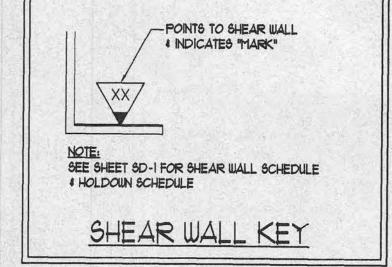
ADMINISTRATION ADDITION 9021 E. 100 S. WEBER COUNTY, UTAH

SCHEDULES & ONE LINE

E3.1

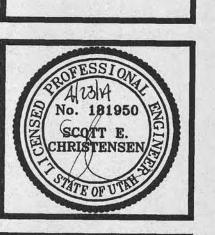




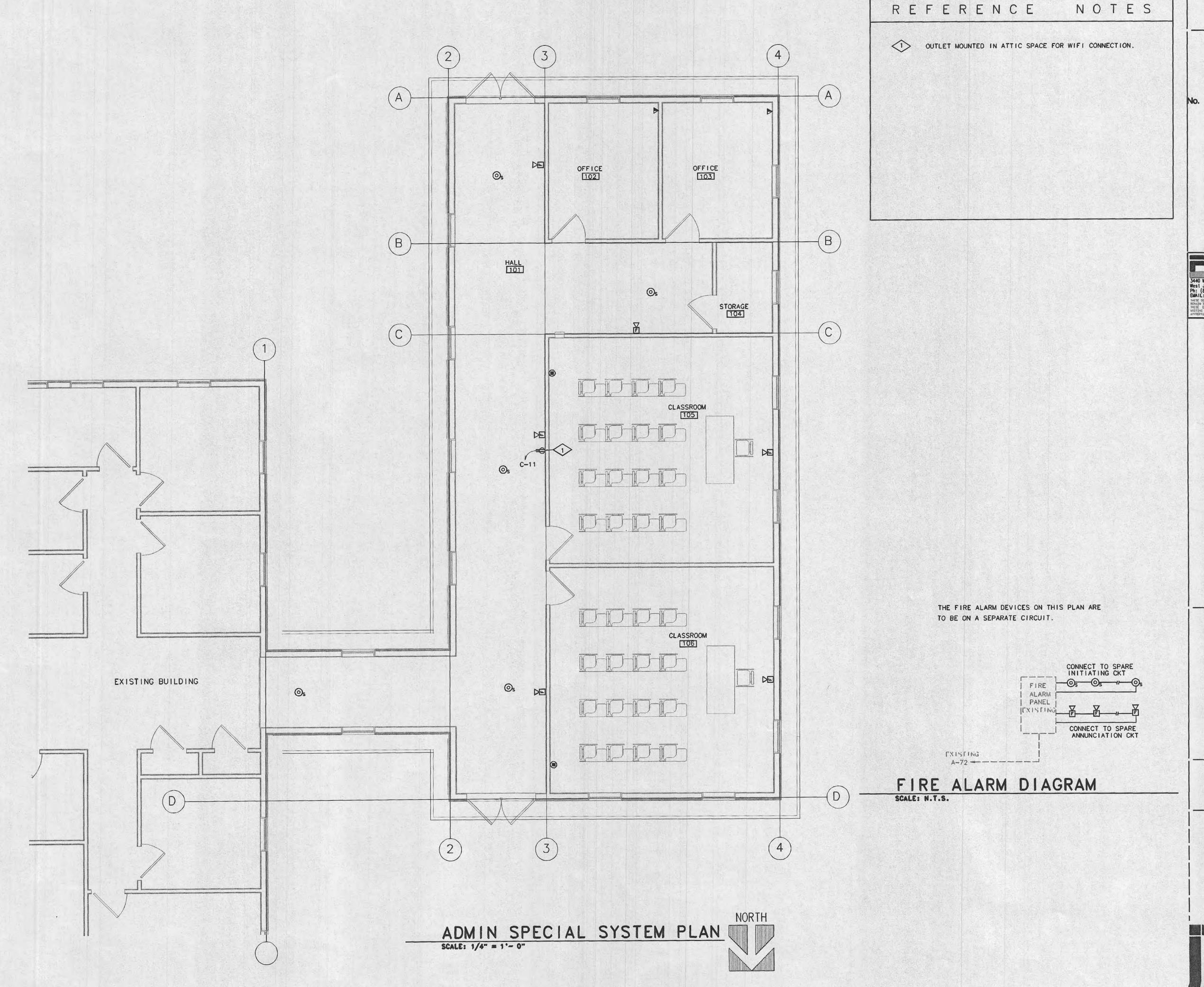


NOTE:
UHERE STHD STRAP HOLDOWN IS ATTACHED
TO A SINGLE KINGSTUD & A SINGLE
TRIMMER, ATTACH THE TWO TOGETHER
W/ (2) IGO SINKERS . G" O.C. FULL
HEIGHT OR W/ LTP4 . 12" O.C. FULL HEIGHT.

COUNTY



S0674-002-141



PROJECT NUMBER

14019

ISSUE DATE:

APRIL 15, 2014
REVISIONS:

No. Date

Professional Engineering

3440 West 7260 South
West Jordan, Utah 84084
Ph: (801) 601-1178 Fax: (801) 601-1179

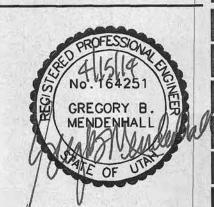
EMAIL: pro.eng@comcast.net
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ADMINISTRATION ADDITION
9091 E. 100 S.
WEBER COUNTY, UTAH

SPECIAL SYSTEMS
PLAN

E2.2



APCHITECTS

1.01 WORK INCLUDED:

The Electrical Contractor shall provide all items, articles, materials, operations or methods listed, mentioned or scheduled on the drawings, or in the specifications including all labor. equipment, services and incidentals necessary and required to complete this project in the intended manner. The Electrical Contractor shall include in his bid the cost of installing all equipment furnished by others.

Connections: Electrical Contractor shall make connections to facilities furnished and installed by others and shall leave ready for use a complete working installation. (Fuel system excepted) testing of equipment and circuits shall be done by the 2.03 MOTORS AND CONTROLS: Contractor, but adjustments and required corrections in equipmen and/or furnished wiring shall be made by the equipment supplier. Motor starters shall be line voltage, magnetic type with three

### 1.02 RELATED WORK:

Shop Drawings, Product Data Samples. See appropriate architectural section

### 1.03 COORDINATION:

The Electrical Subcontractor shall coordinate his work closely with the finish work of other trades. He shall verify all work locations before roughing in to be sure they are properly oriented. All changes or modifications to work done must be approved by the Owner's Representative before any work is

### 1.04 DRAWINGS AND SPECIFICATIONS:

The drawings indicate the general layout of the buildings and the equipment, arrangement of feeders, circuits, outlets, switches, controls, panelboards, fixtures and other work, and are intended to indicate diagrammatically the work to be included and its general character.

The Contractor shall examine the drawings and the specifications for all trades including mechanical and structural to verify all locations and dimensions before roughing in. Discrepancies between drawings and actual field conditions, and conflicts between the drawings and the specifications shall be promptly brought to the attention of the Owner's Representative. In th case of disagreement between the drawings and the specifications, or disagreement within either document itself, the better quality, greater quantity or greater capacity shall be required.

### 1.05 CODES AND STANDARDS:

Construction for this project shall comply with all local regulations and the 2011 edition of the NEC. The Contractor shall obtain and pay for all required permits before commencing construction and shall arrange for all inspections as required.

Applicable provisions of the following current published industry standards shall be considered to be a part of these specifications, and shall be minimum requirements for equipment. workmanship and installation details:

National Electrical Code (NEC) Occupational Safety and Health Act (OSHA) National Electrical Manufacturer's Association (NEMA) American National Standards Association (ANSA) Underwriters Laboratories (UL)

### 1.06 TEMPORARY SERVICE:

Contractor shall make arrangements with the proper authority, and shall bear the cost for all temporary electrical and lighting services as part of this contract.

As soon as permanent power is available the temporary power supply shall be disconnected and removed from the construction

### 1.07 CLEAN UP:

Rubbish and waste generated by the Electrical Contractor shall be properly stored and removed from the job site periodically. When the electrical work has been completed, the job site shall be left clean.

### 1.08 GROUNDING:

The Contractor shall provide grounding for the entire electrical installation indicated and specified herein. The following are included as requiring grounding:

Conduits and other conductor enclosures Power and lighting panelboards Bond non-current carrying metal parts of fixed equipment Installation of grounding & bonding system shall be per NEC,

### 1.09 AS-BUILT DRAWINGS:

A record set of drawings, neatly marked with all changes from the original design shall be maintained at the site and shall be Install lighting fixtures complete with lamps at all lighting available to the Engineer. Upon completion of the project, the marked as-built drawings shall be delivered to the Engineer prior to receiving final payment.

### PART 2 - PRODUCTS

### 2.01 MATERIALS (GENERAL):

All materials shall be new and of the highest quality. The UL label shall be required in every case where a standard has been established for that particular material. It shall be delivered to the site and stored in the original containers, for inspection by the Owner or his designated representative.

### 2.02 RACEWAYS:

Electrical conductors shall be installed in approved electrical raceways of sizes specified by the NEC, to accompdate the number of conductors unless shown otherwise on the drawings. Electrical conduit shall be as follows:

Minimum size 3/4" conduit Intermediate Metal Conduit (IC) - Use intermediate metal conduit, including couplings, elbows, nipples and other fittings which are not hot-dip galvanized and meet the requirements of the UL and NEC. Do not use set screw type couplings and connectors for this class of conduit. Tubing, Electrical Metallic tubing, including elbows, shall meet the requirements of ANSA, UL and NEC. Set screw and compression type couplings and connectors are acceptable, but indented or crimp type fittings are not acceptable.

Conduit shall be rated for use with 90 degrees C conductors, minimum size 3/4".

Conduit, Flexible: All flexible conduit locations exposed to chloride jacketed type, UL approved, with continuous copper ground wire in the flexible steel tube, and shall be American Brass Sealtite Flexible Conduit or an approved

Conduit Fittings, Metallic: Metallic conduit fittings shall be of the type indicated or required for the anticipated purpose and shall meet applicable requirements of ANSA C80.4, UL & NEC.

Conduit Fittings, PVC: PVC conduit fittings shall be of the type indicated or required for the anticipated purpose and shall meet the requirements of NEMA TC 3. Federal Specifications W-C-1094, UL & NEC.

thermal overload relays, necessary auxilliary contacts for interlocking purposes, and reset an on-off-auto switch or start-stop push button on the starter door or as indicated on the drawings. The type of motor starter shall be shown on the drawings with all wiring as shown on the drawings.

All motors, both 1-phase and 3-phase shall be provided with thermal overload protection.

### 2.04 CONDUCTORS:

All building wire and cable for this project shall conform to the latest requirements of the NEC, and shall bear the UL label

Conductors shall be copper, AWG sizes as shown and type THMN THWN (75 degrees C) for feeder and branch circuits. Circuits and locations where above norma ambient temperatures exist Higher temperature wire shall be furnished at locations required by the NEC.

The neutral conductor in 2,3 and 4 wire branch circuits shall be the same size as the ungrounded conductors and shall be colored

Splices: All splices shall be made with UL approved mechanical devices. Splices shall be made in junction boxes, outlet boxes or lighting fixtures only.

Connectors: All conductors larger than No. 10 shall be connected with pressure type terminal lugs.

Control Circuit Conductors: Conductors for relay and control circuits may be No. 14 AWG unless otherwise specified in the drawings, specifications or equipment manufacturer's specifications.

### Insulation:

General areas - type THWN Moist locations - type THWN Panel feeders - type THWN Luminaire channels - type THWN Hot locations - type THWN

### 2.05 WIRING DEVICES:

Switches shall be UL approved, 20 ampere specification grade, 120/277 V rated toggle type, and the standard products shall be Hubbell, Leviton. Colors generally shall be ivory or as specified on the drawings.

Receptacles shall be of the three wire type, 20 ampere specification grade and manufacturer as switches. Duplex receptacles grounding shall be furnished at locations where the basic receptacle symbol is shown

Isolated ground receptacles shall be Hubbell IG5362 orange. Run an insulated ground conductor from panel to each isolated ground

Coverplates shall be nylon, ivory in color.

Provide an engraved plastic laminate label indicating circuit number on each outlet

### 2.06 PANELBOARD SCHEDULE

General: Furnish and install panelboards as shown on the drawings, panelboard schedules and as specified herein. Provide plaster and similar ceiling and wall materials. Support surface dead front safety type and shall have copper bus bars with main lugs or main breakers as specified. All panels shall have solid | outlet boxes and independent of the raceway system. neutral. An approved holder 6" x 9" shall be provided on inside of panelboard door. After circuit installations have been completed, the circuit identification card shall be typed and inserted into the holder.

Breakers: All breakers shall be quick-make, quick-break with interrupting capacity as indicated by type in schedule. All breakers shall be UL approved.

Manufacturer: Panelboards shall be a standard product of Siemens, General Electric, Square D or Cutler Hammer.

### 2.07 LIGHTING FIXTURES:

outlets shown on the drawings. Lighting fixtures and lamps accordance with specifications on the drawings.

### 2.08 FIRE ALARM SYSTEM:

Summary: Noncoded, addressable system with manual and automatic alarm initiation; and a multiplexed signal transmission dedicated to fire alarm service. Provide equipment combatable with existing Edward fire alarm panel.

Submittals: Submittals shall be a approved by authorities having 3.07 BOXES AND FITTINGS: jurisdiction prior to submitting them to the architect. Shop drawings shall be prepared by persons who are trained and certmoisture shall be moisture proof flexible steel, polyvinyl ified by manufacturer in fire alarm system design and licensed or where required or desirable to facilitate the installation of certified by authorities having jurisdiction.

### Provide product data for each type of product indicated.

Shop drawings for fire alarm system. Include plans, elevations, sections, details, and attachments to other work. Comply with recommendations in the "Documentation" section of the Fundamental Outlet boxes shall be galvanized steel, rigidly secured in of Fire Alarm Systems chapter in NFPA 72. Include voltage drop calculations for notification appliance circuits. Include battery

Manufacturers: Subject to compliance with requirements, provide products to match existing.

Manual Pull Stations: Double-acting, metal or plastic, red in color with molded, raised-letter operating instructions in

Smoke detectors: Comply with UL 268,24V dc, self-restoring, ionization type, w/integral addressable module, plug-in plug-in arrangement

Notification Appliances: Provide combination devices that are factory-integrated audible and visible devices in a singlemounting assembly, equipped for mounting as indicated and with screw terminals for system connections. Electricvibrating-polarized horns, 24-V dc; with provision for housing the operating mechanism behind a grille. Comply with UL 464. Horns shall produce a sound-pressure level of 90 dBA, measured 10 feet from the horn, using the coded signal prescribed in UL 464 test protocol. Visible notification appliances shall be xenon strobe lights comply with UL 1971, with clear or nominal white polycarbonate lens mounted on an aluminum faceplate. The word "FIRE" is engraved in minimum 1-inch high letters on the lens. Rated light output 75 cdwall mounted. Flashing shall be in a tenporal pattern, synchronized with the other units. Strobe leads shall be factory connected to terminals. Mounting faceplate: factory finished red.

Central Fire Alarm Control Panel: Comply with UL 864. Communicate with other buildings on campus.

Wires: Solid copper, with 600-V-rated, 75 deg C, color-coded insustation; Low voltage circuits No. 16 AWG minimum., Line voltage circuits No. 12 AWG minimum.

### PART 3 - EXECUTION

### 3.01 GENERAL:

Installation: Workmanship shall be in all cases of the best quality and skill, and the completed installation shall present a neat mechanical appearance.

### 3.02 LIGHTING FIXTURES:

Fluorescent-lamp ballasts: Provide fluorescent-lamp ballast capable of operating lamp types indicated; with high power electronic with less than 10% THD, and with internal thermal protection. See plans for voltage requirements.

luorescent & HID lamps: See fixture schedule for lamp types. Provide only Phillips lamps.

Where recessed lighting fixtures are to be installed, provide all openings, plaster rings, etc. of exact dimensions for such fixtures to be inserted in openings. All outlets for flush fixtures shall terminate in an extension outlet box adjacent, and shall be connected by means of conduit in accordance with NEC requirements.

The Contractor shall coordinate with the reflected ceiling plan to obtain symmetrical arrangement of fixtures.

Provide all necessary supports, brackets and miscellaneous equipment for mounting of fixtures. Support all ceiling mounted fixtures from the building structure; independent of the ceiling system, unless otherwise noted. Support each recessed fixture (fluorescent, or incandescent) from the building structure with #12 ga. steel wire attached to diagonal corners (in addition to supports normally provided for attachment to the ceiling system). Provide backing supports above (or behind) sheetrock. mounted ceiling fixtures from channel. Support surface mounted

### 3.03 OUTLETS:

Each outlet or other device shall be properly located to suit its particular purpose, and shall be equipped with an outlet device which is suitable for the purpose of the particular outlet. It shall also be made complete with means of properly connecting the equipment served.

# 3.04 BRANCH CIRCUIT, HOME RUNS AND SEQUENCE PHASING:

Home run circuits to lighting outlets are schematically shown on the drawings, and shall be installed accordingly.

Conductors shall be color coded black, red, blue and white for 120/208 V (204 V) system. Switch legs shall not change from phose color.

### 3.05 MOTORS AND CONTROLS:

Furnish and install motor disconnect switches where required by the NEC or local ordinances for all electric motors.

Furnish and install all conduit, wiring, flexible conduit. outlets, relays, disconnect switches, thermal switches, manual starters and magnetic starters, except for controls specified to be furnished under the mechanical section.

### 3.06 EQUIPMENT IDENTIFICATION:

Electrical equipment and conduits shall be identified by rigid engraved name tags and/or a sign, permanently attached with screws or rivits, and in such position as to be visible from normal viewing angles. Letters shall be of such color as to contrast with the background finish of the equipment. Adhesive attached tags are not acceptable.

Panelboards shall be identified with a name tag on the exterior trim, visible without opening the door and on the panel face inside the door

Convenience outlets shall be labeled with the circuit number on the front of the coverplate.

All other electrical equipment items shall have identification tags attached where such identification will be desirable for operation and maintenance of such equipment

Approved cabinets, gutters and boxes shall be installed and/or electrical wiring. All such devices shall be constructed, sized, finished and installed in accessible locations. All cabinets, gutters and boxes shall be closed with suitable doors covers or wiring devices & plates.

position. In finished areas, the front edge shall be flush with the finished wall or not more than 1/4" back of the same. They shall be of suitable size and shape to fit the purpose of the outlet. Wall outlets shall be so arranged to provide only such wall opening as may be covered by device plate without the use of morter, plaster or other filler material. Only such knockouts shall be removed as are actually required for conduit connections. Size of boxes shall comply with the NEC. All box shall meet the requirements of the NEC for the prevailing conditions. Switch and handy boxes shall be a minimum size of 2" wide and 4" high.

Pull boxes: Pull boxes shall be constructed of Code-Gauge galvanized sheet metal. Covers shall be fastened with screws. Where several conductors pass through a common pull box, they shall be tagged to clearly indicate their electrical characteristics, circuit numbers and panel designation.

### 3.08 RACEWAYS:

All raceways entering a slab shall be PVC wrapped rigid steel. elbows. The rigid steel conduit shall extend 2 feet above the floor. The PVC wrapping shall extend 2" above the floor.

Conduits stubbing through the floor slab shall be at right angles to the slab.

Care and cleaning: Precautions shall be exercised to prevent accumulation of water, dirt or concrete in the conduit during the execution of the work. Conduits in which water or forign matter have accumulated shall be thoroughly cleaned or the conduit runs replaced where such accumulation cannot be removed.

Damaged conduit: Conduit which has been crushed or deformed in ony manner shall not be installed, or if damaged after installation, shall be replaced.

Bushings and lock nuts: All raceways 1" and larger shall utilize OZ type "A" or "B" insulating bushings at cabinets and outlets. Roceways entering outlets or cobinets shall have double lock nuts applied for grounding purposes. Where an insulating bushing is applied over a lock nut, the inner lock nut may be omitted if type "B" bushing is used and makes a tight

Expansion: Where conduits cross over building expansion joints, OZ type "EX" expansion fitting complete with type "EJ" copper bonding jumper shall be provided. Sufficient slack shall be left in the conductors to allow for contraction and expansion. Roof piercing conduits: Provide flashing around all conduits which pierce roof. Flashing shall be in accordance with applicable sections of these specifications, and shall be done to the satisfaction of the Engineer

Heat sources: Conduit runs shall be kept a minimum distance of 6" from the outer surfaces of hot water and steam pipes.

Continuity: The raceways shall provide a continuous metallic path, firmly bonded to all metallic boxes, cabinets and the grounding system. Supports: Conduits shall be supported with commercially manufactured metallic support clamps and hangers with the

spacing as required in the NEC. Conduits shall be neatly grouped and supported on angle iron or unistrut in a group where number of conduits follow similar routing. Wire supports are not acceptable. All conduit supports shall be supported from the structure and not from pipe lines or other equipment.

Installations: The conduit shall be concealed in all finished areas. The runs shall be installed with a pitch toward the boxes, and shall enter boxes squarely without any crossovers or bunching. All runs shall be firmly secured with standard fittings.

### .09 CONDUCTORS:

Wiring: Conductors shall be continuous from outlet to outlet. and no splices shall be made except within outlets, junction boxes or lighting fixtures. Junction boxes shall be utilized where required by code or where necessary to facilitate pulling wires. All exposed junction boxes shall be covered with steel plates painted to match the surrounding surface.

Connectors: Wire connectors of the twist type enclosed by insulating material (wire nuts) or solderless pressure conductors properly taped shall be utilized for all splices in 120/208 V wiring where possible. Soldered joints are not permitted. Wire nuts shall be "Ideal" or equal. Tape shall be UL approved "Scotch 33" or equal.

balance the current in the conductors, and the maximum unbalanced current that can occur in the neutral conductor shall not exceed the rated capacity of that conductor.

Load balance: All electrical loads shall be connected to

Wire tension: All wires shall have sufficient slack to be free from mech. strain when connected to equipment or junction boxes

Conductors: All conductors shall be copper, and sized according to the drawings. Minimum wire size shall be No. 12 unless otherwise specified in these specifications or on the drawings. Wire size No. 8 and larger shall be stranded. Conductors shall not be pulled into conduit until the building is dry, cabinets and outlet boxes are free of building refuse, and the conduit system is completely free of moisture.

### 3.10 PANELBOARD:

In areas where the panelboard is recessed in a wall, run (3) 3/4" conduits from each recessed panel to accessible space above the ceiling to permit future use of spare circuit breakers.

Cabinets: Boxes shall be formed from galvanized sheet steel. Gauge of steel shall be in accordance with UL standards. Furnish extension boxes for proper connection of large size feeders to panel.

Trim: Doors shall be keyed alike. Where two panels are mounted along side each other, trim shall be of the same size, and doors shall be hinged right and left. Where box extension is provided, trim shall cover the extension.

3.12 FIRE ALARM SYSTEM:

quipment installation: comply with NFPA 72 for installation of ire alarm equipment

Alarm-indicating devices-install not less than 6 inches below the ceiling. Install bells and horns on flush-mounted back boxes with the device-operating mechanism concealed behind a grille.

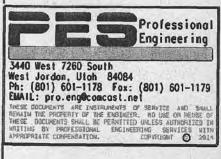
### 3.12 TESTING AND OPERATION:

Before final acceptance of this work, the Contractor shall test all wiring systems in the presence of the Owner's Representative with all lamps, motors, appliances and equipment in place and in good working condition. The entire electrical system shall test free of mechanical and electrical faults. If any defects are found, they shall be corrected by the Contractor at no cost to the Owner. The Contractor shall spend the necessary time to openings not used shall be closed. All boxes in moist locations | fully explain to the Owner's Representative the proper operation and maintenance of all new electrical systems and equipment.

PROJECT NUMBER 14019

> ISSUE DATE: APRIL 15, 2014

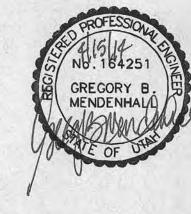
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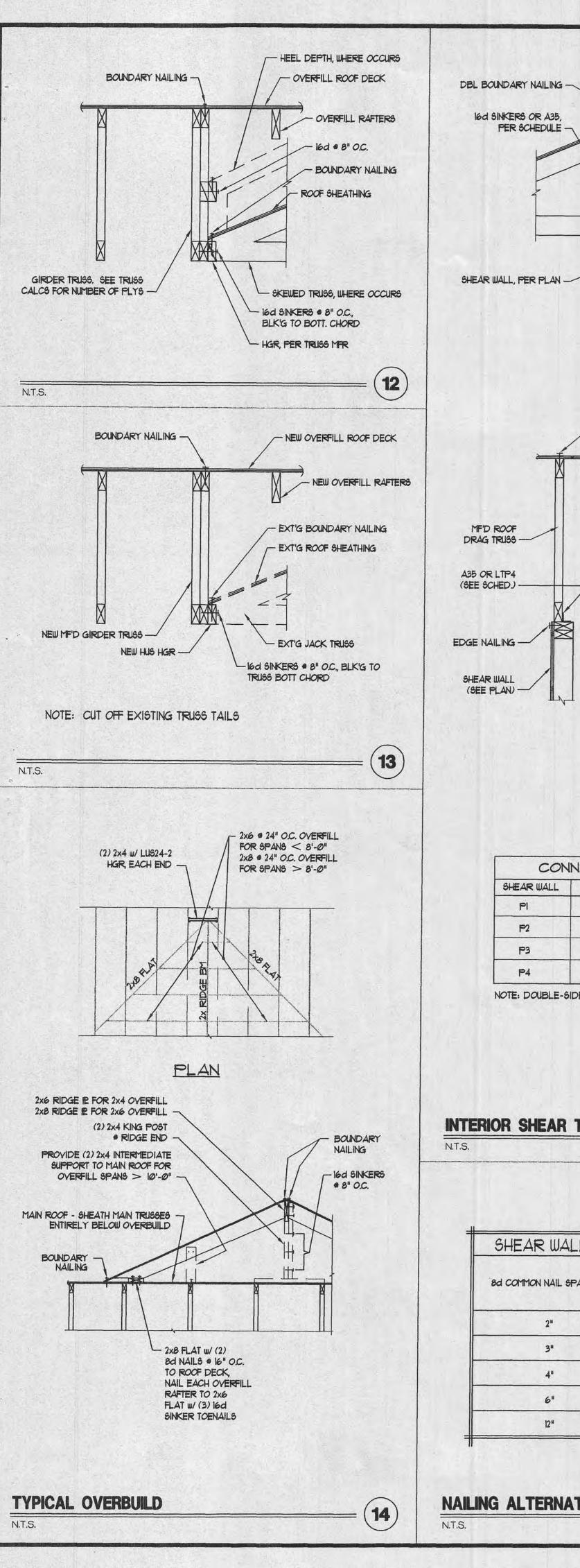


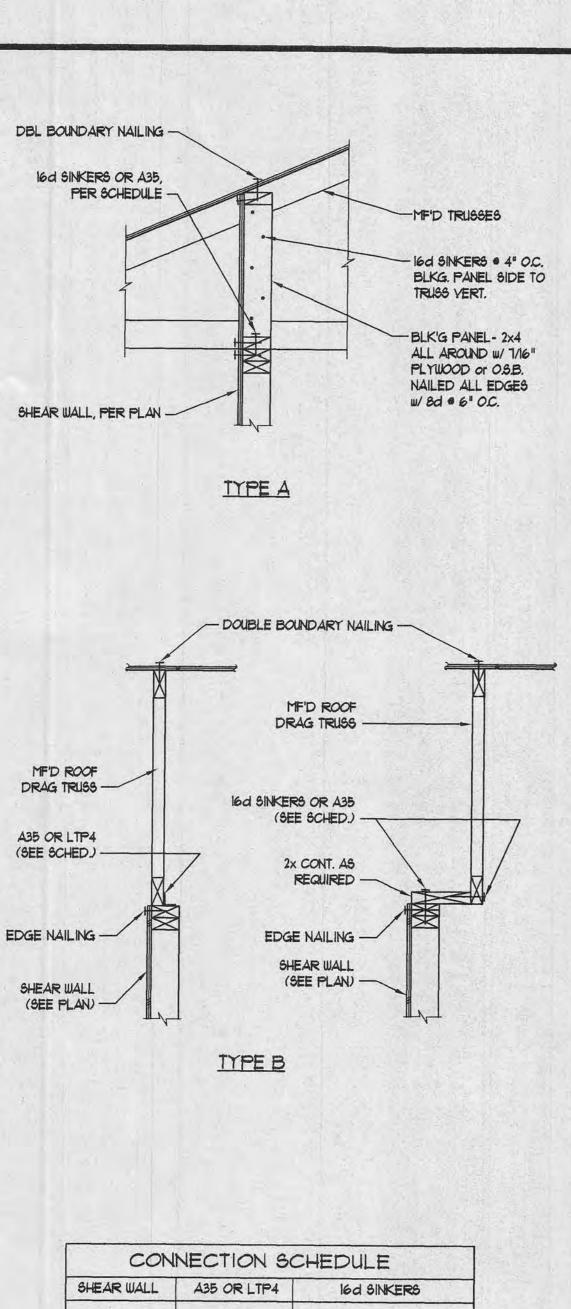
ADDITION ADDITION 40

SPECIFICATIONS

E4.





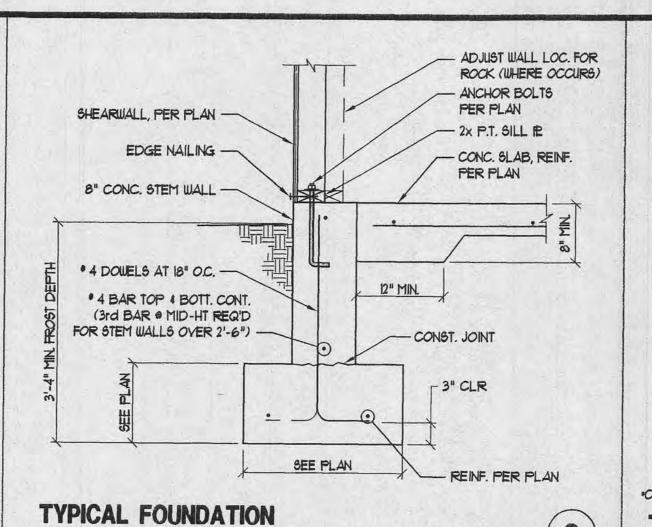


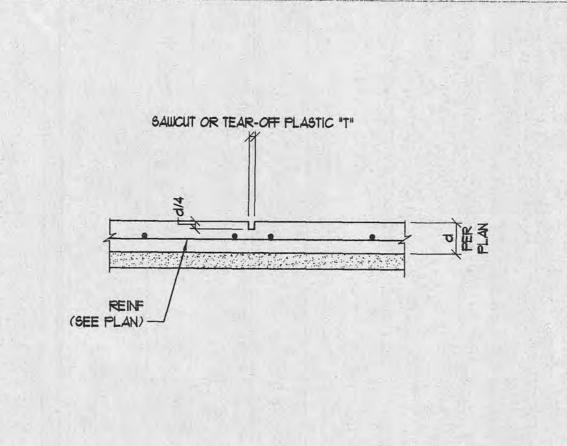
| CON        | NECTION S   | CHEDULE             |
|------------|-------------|---------------------|
| SHEAR WALL | A35 OR LTP4 | 16d SINKERS         |
| PI         | 18" O.C.    | 6" O.C.             |
| P2         | 12" O.C.    | 4" O.C.             |
| P3         | 10" O.C.    | 3" O.C. (STAGGERED) |
| P4         | 8" O.C.     | 2" O.C. (STAGGERED) |

INTERIOR SHEAR TRANSFER (10)

| SHEAR WALL NAIL        | ING ALTERNATES               |
|------------------------|------------------------------|
|                        | ICBØ APPROVED STAPLE SPACING |
| 8d COMMON NAIL SPACING | 16 GAUGE<br>(1-1/2" LONG)    |
| 2"                     | NA .                         |
| 3"                     | NA NA                        |
| 4"                     | 2"                           |
| 6"                     | 3"                           |
| 12"                    | 6"                           |

| <b>NAILING</b> | ALTERNATES |  |
|----------------|------------|--|
| N.T.S.         |            |  |

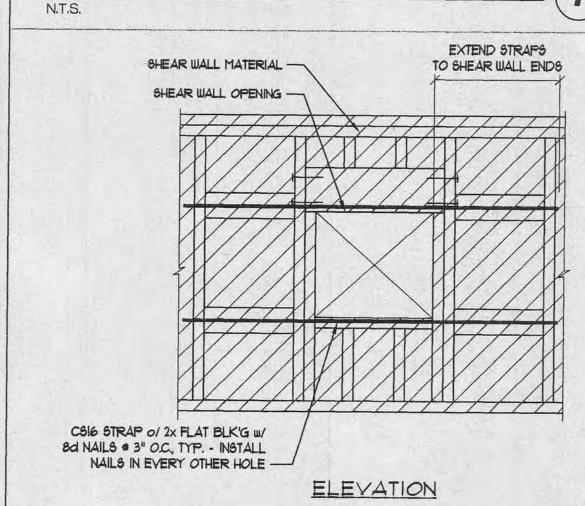


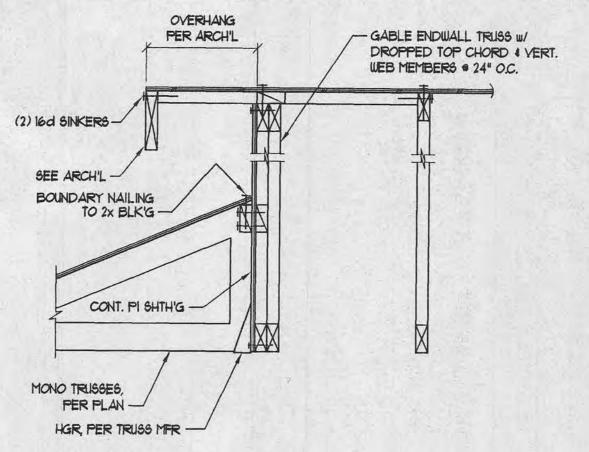


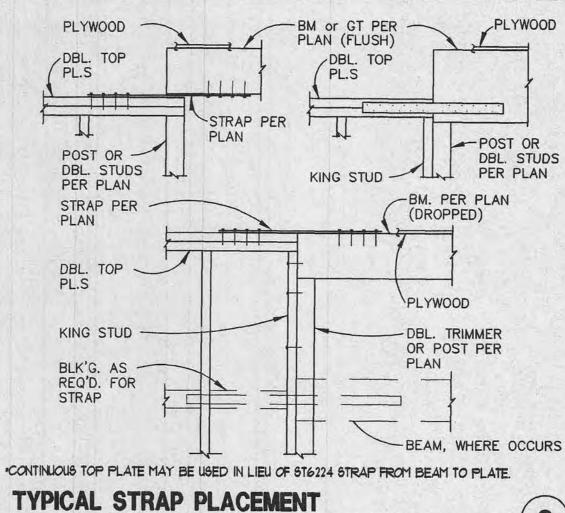
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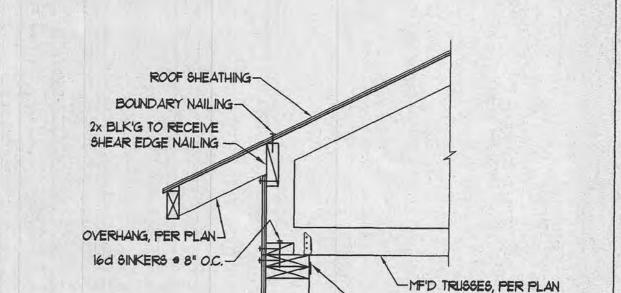






N.T.S.

KING STUD TRIMMER -FLOOR-TO-FLOOR STRAP, PER PLAN (WHERE OCCURS) -FLR SHTH'G RIM JOIST KING STUD STRAP ABY. -KING STUD SHEAR WALL, EMBED STRAP, PER PLAN ANCHOR BOLT - SILL PE HOLDOWN W// THREADED ROD - FLR SHTH'G PRESSURE TREATED SILLE FOUNDATION



UPLIFT HARDWARE AS

REQ'D PER TRUSS CALCS

TYPICAL HOLDOWN PLACEMENT

2x STUD WALL W/ SHEAR,

WHERE OCCURS, PER PLAN-

9

TYP. ROOF TRUSS BR'G 5 STRUCTURAL NOTES

GENERAL:

- ARCHITECTURAL AND SITE PLANS FOR THIS PROJECT WERE PREPARED BY OTHERS. VECTOR STRUCTURAL ENGINEERS ASSUMES NO LIABILITY FOR THE ACCURACY. COMPLETENESS, OR CODE COMPLIANCE OF ARCHITECTURAL, ELECTRICAL, MECHANICAL OR DRAINAGE SPECIFICATIONS. ALL DIMENSIONS SHOULD BE VERIFIED PRIOR TO
- 2. STRUCTURAL DESIGN IS BASED UPON THE INTERNATIONAL BUILDING CODE, 2012 EDITION DESIGN LOADS:

DEAD LOADS: ROOF: 20 PSF LIVE LOADS: ROOF: 20 PSF

SNOW LOADS: GROUND: 533 PSF, PER UTAH AMENDED CODE 1608.12 ROOF: 34 PSF AT 6:12 SLOPE (REDUCIBLE PER ASCE 1-05) ROOF: 26 PSF AT 10:12 SLOPE (REDUCIBLE PER ASCE 1-05) WIND: 115 MPH (3 SECOND GUST) EXPOSURE "C" SEISMIC: DESIGN CATEGORY "D"

- 3. FOUNDATION DESIGN IS BASED UPON 1500 PSF ALLOWABLE BEARING PRESSURE. VECTOR STRUCTURAL ENGINEERS STRONGLY RECOMMENDS INDEPENDANT SOILS TESTING BE PERFORMED BY A LICENSED GEOTECHNICAL ENGINEER TO VERIFY SOIL BEARING CAPACITY, SLOPE STABILITY, AND ANY OTHER RELATED SOIL PARAMETER, AS REQUIRED.
- 4. STRUCTURAL REQUIREMENTS SHOWN ON THE FRAMING PLANS AND THESE DETAILS SHALL TAKE PRECEDENCE OVER STRUCTURAL CALLOUTS INDICATED ON ARCHITECTURAL

### CONCRETE:

- ALL CONCRETE MIXING, PLACEMENT, FORMING, AND REINFORCING INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH THE THE REQUIREMENTS OF "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318, LATEST EDITION.
- 2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI. STRUCTURAL DESIGN IS BASED UPON 2500 PSI, THUS, NO SPECIAL INSPECTION IS REQUIRED.
- 3. CEMENT FOR ALL CONCRETE SHALL BE TYPE V WITH A MINIMUM OF 6% ENTRAINED AIR MAXIMUM AGGREGATE SIZE SHALL BE 3/1".
- 4. REINFORCING STEEL SHALL BE PER ASTM A615, GRADE 60, UNO. REINFORCING BAR SIZE AND PLACEMENT SHALL BE AS INDICATED ON THE PLANS AND DETAILS. WELDING OF REINFORCING STEEL IS NOT PERMITTED.

### FRAMING:

- 1. WHERE SPECIFIED, DIMENSIONAL SAWN LUMBER SHALL BE AS FOLLOWS: DFL STUD GRD: 2x STUDS UP TO 10' TALL.
- DFL 2: 2x AND 4x BEAMS, HEADERS, RAFTERS, JOISTS, PLATES, STUDS UP TO 18' DFL 9: 6x BEAMS, HEADERS, POSTS
- 2. LAMINATED VENEER LUMBER (LVL) SPECIFIED ON THE PLANS SHALL HAVE THE
- FOLLOWING MINIMUM PROPERTIES: E = 1,900,000 PSI, Fb = 2600 PSI, Fv = 285 PSI. 3. GLULAM BEAMS (GLB) SPECIFIED ON THE PLANS SHALL BE SERIES 24F-V4 DF/DF FOR SIMPLY SUPPORTED BEAMS AND 24F-V8 DF/DF FOR CANTILEVER AND CONTINUOUS
- 4. WOOD STRUCTURAL PANELS SHALL BE APA RATED PLYWOOD OR O.S.B.
- 5. UNLESS NOTED OTHERWISE, ALL EXTERIOR WALLS AND INTERIOR BEARING AND SHEAR WALLS SHALL BE 2x4 STUDS . IG" O.C. ALL WALLS OVER 12' TALL SHALL BE 2x6 STUDS
- 6. UNLESS NOTED OTHERWISE, ALL EXTERIOR WALLS AND INTERIOR BEARING WALLS SHALL HAVE TRIMMERS AND KING STUDS AS FOLLOWS:

OPENINGS UNDER 6' WIDE: (1) TRIMMER 4 (1) KING STUD EA. END OPENINGS 6' TO 10' WIDE: (2) TRIMMER \$ (2) KING STUD EA END

- OPENINGS OVER 10' UP TO 18' WIDE: (3) TRIMMER 4 (3) KING STUD EA END 7. UNLESS NOTED OTHERWISE, ROOF DECK SHALL BE 1/4" WOOD STRUCTURAL PANEL, UNBLOCKED, WITH PANEL RATING OF 32/16. NAILING SHALL BE 8d AT 6" O.C. ALL BOUNDARIES AND SUPPORTED EDGES, AND 12" IN FIELD. STAPLES MAY REPLACE NAILS: 16 GA. AT 4" O.C. ALL BOUNDARIES AND SUPPORTED EDGES AND 8" O.C. FIELD. STAPLES SHALL HAVE I" MIN. PENETRATION INTO FRAMING MEMBER
- 8. UNLESS NOTED OTHERWISE, FLOOR DECK SHALL BE 1/4 T &G WOOD STRUCTURAL PANEL, UNBLOCKED, WITH PANEL RATING OF 48/24. NAILING SHALL BE 10d AT 6" O.C. ALL BOUNDARIES AND SUPPORTED EDGES, AND 12" IN FIELD.
- 9. PREMANUFACTURED TIMBER TRUSSES SHALL BE DESIGNED BY THE TRUSS MANUFACTURER. TRUSS LAYOUTS SHALL MATCH THE FRAMING PLANS AND SHALL BE SUBMITTED TO VECTOR STRUCTURAL ENGINEERS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. ALL TRUSS TO TRUSS AND TRUSS TO BEAM HANGERS SHALL BE SPECIFIED BY THE TRUSS DESIGNER TRUSSES PARALLEL TO INTERIOR SHEAR WALLS SHALL BE DESIGNED FOR THE LATERAL LOADS INDICATED ON THE FRAMING PLANS.

### STRUCTURAL STEEL:

- STRUCTURAL STEEL SHALL BE AS FOLLOWS: ASTM A992: ALL STEEL WIDE FLANGE BEAMS ASTM A36: ALL STEEL PLATES, CHANNELS, & OTHER BEAMS
- ASTM A53 GRD B: ALL STEEL PIPES ASTM A500 GRD B: ALL RECTANGULAR TUBE STEEL
- ALL WELDING SHALL BE PERFORMED WITH ETIOXX LOW HYDROGEN ELECTRODES BY CERTIFIED WELDERS. FIELD WELDING SHALL HAVE THIRD PARTY SPECIAL INSPECTION.

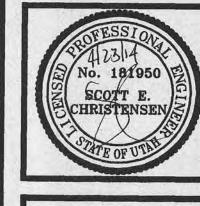
### STRUCTURAL NOTES

| SHEAR WALL SCHEDULE |                                      |                                                  |                                                                       |
|---------------------|--------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------|
| MARK                | MATERIAL                             | NAILING                                          | SOLE PLATE CONNECTION (SEE FOUNDATION PLAN FOR SILL PLATE CONNECTION) |
| PI                  | 3/8" STRUCT. II<br>PLYWOOD OR O.S.B. | 8d @ 6" O.C. ALL EDGES<br>8d @ 12" O.C. IN FIELD | 16d • 6" O.C.                                                         |
| P2                  | 3/8" STRUCT. II<br>PLYWOOD OR O.S.B. | 8d 4" O.C. ALL EDGES<br>8d 9 12" O.C. IN FIELD   | 16d • 4" O.C.                                                         |
| P3                  | 3/8" STRUCT. II<br>PLYWOOD OR O.S.B. | 8d • 3" O.C. ALL EDGES<br>8d • 12" O.C. IN FIELD | 16d • 3" O.C.                                                         |
| P4                  | 3/8" STRUCT. II<br>PLYWOOD OR O.S.B. | 8d @ 2" O.C. ALL EDGES<br>8d @ 12" O.C. IN FIELD | 18d • 2" O.C.                                                         |

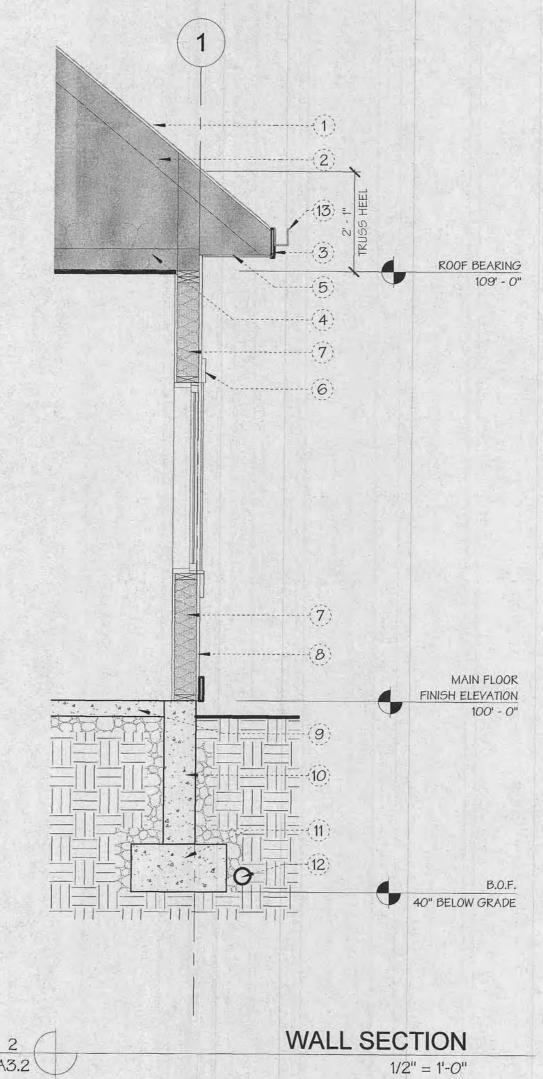
- ALL PLYWOOD SHEARWALLS ARE BLOCKED AT ALL FREE EDGES.
   ALL ANCHOR BOLTS SHALL HAVE 7" MIN. EMBEDMENT AND SHALL BE PER ASTM A307.
- 3. ALL NAILS ARE COMMON NAILS, U.N.O.
- ALL NAILS ARE COMMON NAILS, U.N.O.
   ALL ANCHOR BOLTS SHALL INCLUDE A STEEL 3"x3"x0.229" PLATE WASHER.
   FOR SHEAR WALLS "P3" AND "P4", FOUNDATION SILL PLATES AND ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS SHALL NOT BE LESS THAN A SINGLE 3—INCH NOMINAL MEMBER. NAILS SHALL BE STAGGERED.
   IN LIEU OF REQUIREMENTS OF NOTE 5 ABOVE, FOUNDATION SILL PLATES FOR SHEAR WALL "P3" MAY BE A SINGLE 2—INCH NOMINAL MEMBER WITH ANCHOR BOLT SPACING REDUCED TO ONE HALF OF THE SPACING LISTED IN SILL ANCHORAGE SCHEDULE ON FOUNDATION PLAN WITH 3"x3"x0.229" PLATE WASHERS.

SHEAR WALL SCHEDULE

LNOO



S0674-002-141



KEYED NOTES

ASPHALT SHINGLES - REFER TO ROOF PLAN

ROOF TRUSSES - REFER TO STRUCTURAL

PRE-FINISHED METAL FASCIA

---(5) PRE-FINISHED METAL SOFFIT

R-40 ATTIC INSULATION

----(6) HARDIE TRIM - 6" HORIZONTAL AND VERTICAL

---(7) R-19 WALL INSULATION

----(8) BUILDING WRAP

CONCRETE SLAB ON GRADE - REFER TO STRUCTURAL FOR REINFORCING REQUIREMENTS - REFER TO GEOTECHNICAL FOR GROUND PREPARATION AND VAPOR BARRIER REQUIREMENTS

CONCRETE FOUNDATION - REFER TO STRUCTURAL

CONCRETE FOOTING - REFER TO STRUCTURAL

PERIMETER DRAIN AS REQUIRED BY GEOTECHNICAL REPORT

PRE-FINISHED RAIN GUTTERS WITH DOWN SPOUTS, CONNECT TO STORM DRAIN SYSTEM

GENERAL NOTES

(A) SEE GENERAL NOTES ON SHEET TI.2 FOR ADDITIONAL REQUIREMENTS.

B REVIEW ALL STRUCTURAL PLANS AND SPECIFICATIONS AS WELL AS STRUCTURAL CALCULATIONS FOR ALL STRUCTURAL REQUIREMENTS.

REFER TO ELEVATION DRAWINGS FOR ALL EXTERIOR FINISHES.

ALL WINDOWS AND DOORS TO BE AS INDICATED IN FLOOR PLANS ELEVATIONS AND WINDOW/DOOR SCHEDULES.

E ALL INSULATION, VAPOR BARRIERS, BUILDING PAPER, ETC... AS INDICATED IN GENERAL NOTES.

ALL EXTERIOR MATERIALS TO BE AS INDICATED ON ELEVATION DRAWINGS.

VALL SECTION

ACADEMY ION ADDITION

WAY POINT,

PROJECT NUMBER

14019

**ISSUE DATE:** 

**APRIL 22, 2014** 

**REVISIONS:** 

Date

A3.2



ARCHITECTS