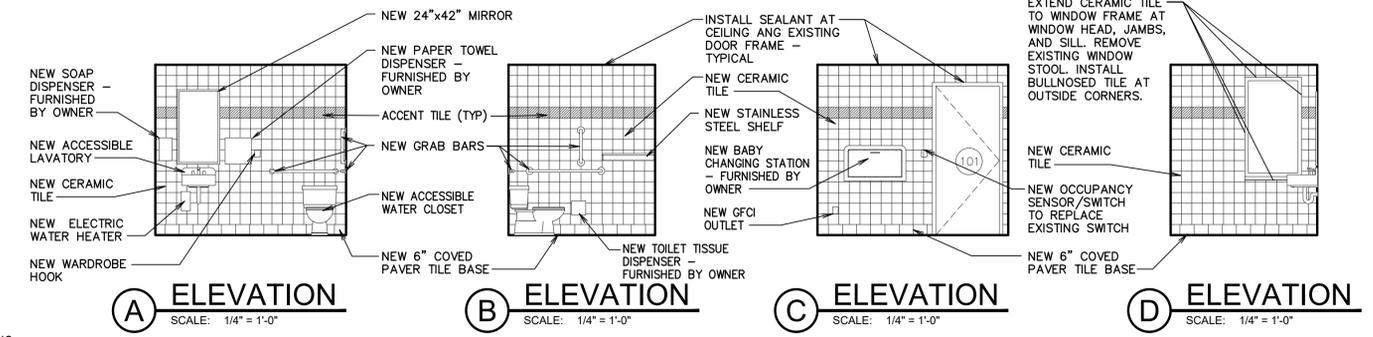
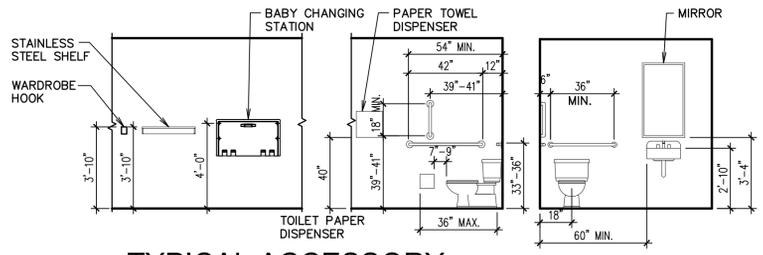


**1 ENLARGED PLAN**  
SCALE: 1/2" = 1'-0"

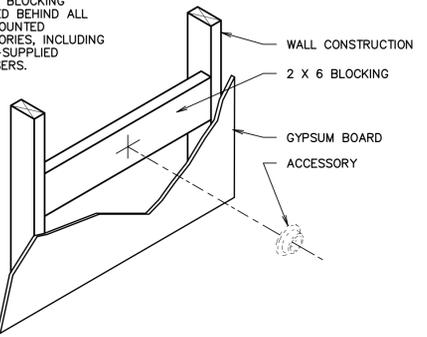


**A ELEVATION** SCALE: 1/4" = 1'-0"  
**B ELEVATION** SCALE: 1/4" = 1'-0"  
**C ELEVATION** SCALE: 1/4" = 1'-0"  
**D ELEVATION** SCALE: 1/4" = 1'-0"

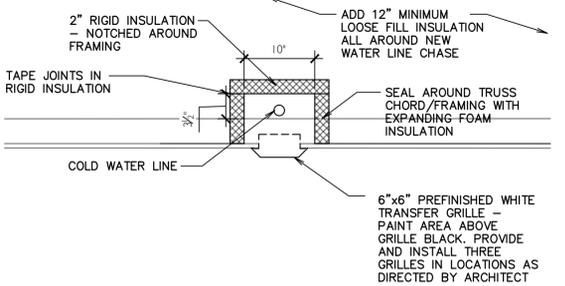
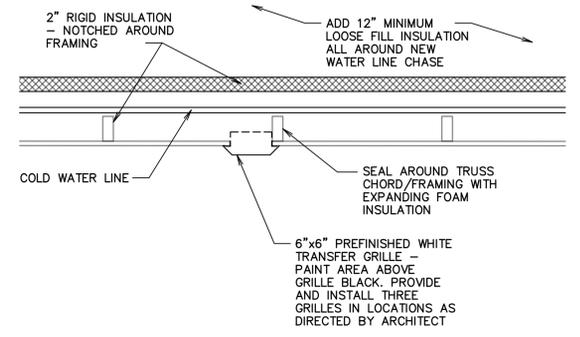


**E TYPICAL ACCESSORY MOUNTING LOCATION**  
SCALE: 1/4" = 1'-0"

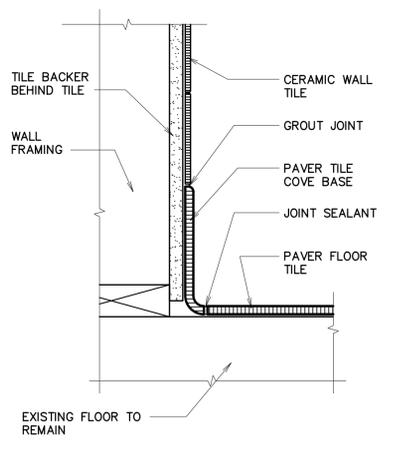
NOTE:  
TYPICAL BLOCKING  
REQUIRED BEHIND ALL  
WALL MOUNTED  
ACCESSORIES, INCLUDING  
OWNER-SUPPLIED  
DISPENSERS.



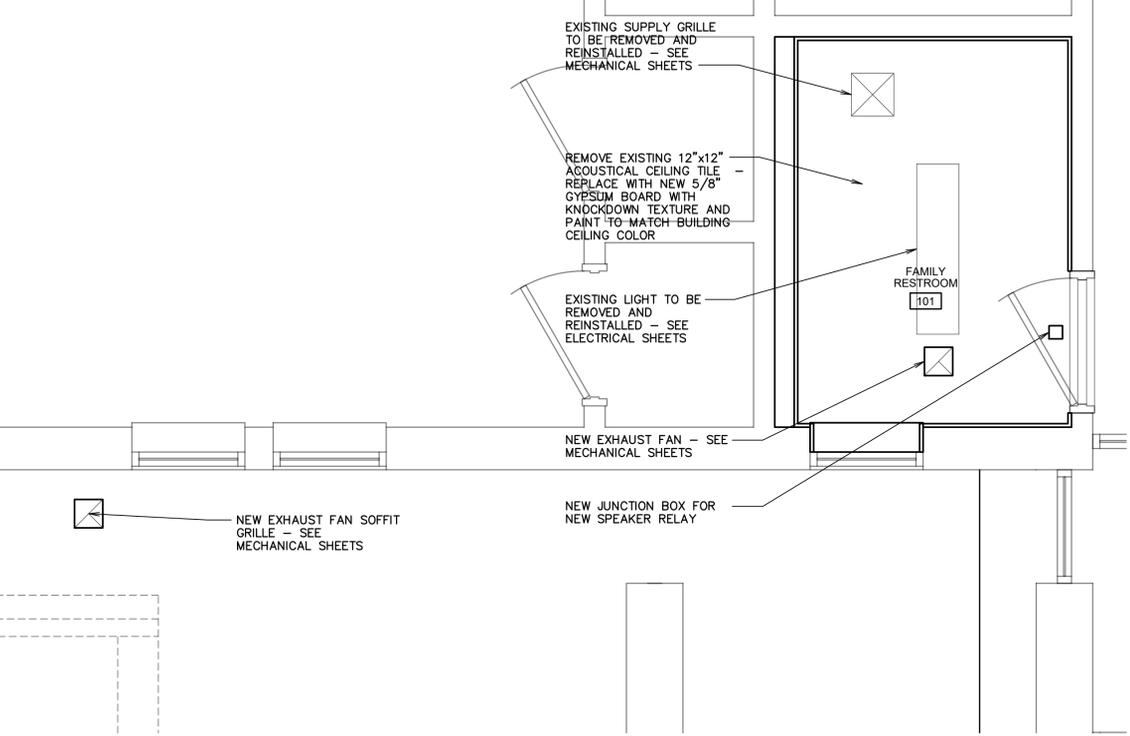
**K TYPICAL ACCESSORY MOUNTING DETAIL**  
SCALE: 1/4" = 1'-0"



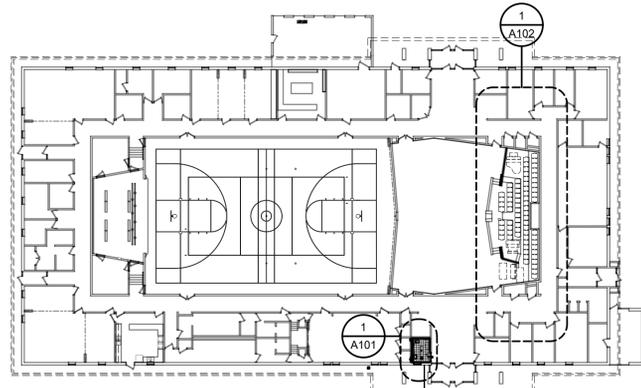
**H ATTIC WATER LINE DETAIL**  
SCALE: 1" = 1'-0"



**G PAVER TILE BASE**  
SCALE: 3" = 1'-0"



**2 ENLARGED REFLECTED CEILING PLAN**  
SCALE: 1/2" = 1'-0"



**3 KEY PLAN**  
SCALE: NOT TO SCALE

**SHEET INDEX**

|      |   |
|------|---|
| A101 | ENLARGED PLANS, ELEVATIONS, AND DETAILS |
| A102 | ROSTRUM PLAN AND DETAILS                |
| M001 | NOTES AND SYMBOLS                       |
| M201 | PLUMBING PLAN                           |
| M301 | MECHANICAL PLAN                         |
| M601 | SCHEMATICS                              |
| M601 | SCHEDULES AND DETAILS                   |
| E001 | ELECTRICAL COVER SHEET                  |
| E101 | ELECTRICAL PLANS                        |
| E201 | ELECTRICAL SCHEDULES                    |

**GENERAL NOTES**

A. This and any other drawings are not intended to be all-inclusive, nor to define the scope of all work required for this project. Demolition drawings are shown only to aid the Contractor in preparing his bid and performing the work. The Contractor and subcontractors shall examine all Contract Documents and visit the site during bidding as required to determine the total extent and scope of the demolition portion of this work. The Contractor shall perform this inspection prior to submitting a bid for the work. Submission of a bid will be construed as evidence that such an examination has been made and later claims will not be recognized for extra labor, equipment, or materials required because of difficulties encountered which could have been foreseen during the required site inspection. All items that are not required to remain shall be of the demolition work whether shown specifically or not. The Contractor shall be responsible for all demolition work required to carry out the work as shown in the Contract Documents.

B. Coordinate this sheet with all other Contract Documents.

C. Dimensions are to finished face of wall or finished face of ceiling unless otherwise noted.

D. Protect all items to be salvaged for reinstallation during construction from damage and from dust. Clean all salvaged items prior to reinstallation.

**OWNER-FURNISHED ITEMS**

| ITEM                    | FURNISHED BY | INSTALLED BY |
|-------------------------|--------------|--------------|
| Baby Changing Station   | Owner        | Contractor   |
| Soap Dispenser          | Owner        | Contractor   |
| Paper Towel Dispenser   | Owner        | Contractor   |
| Toilet Tissue Dispenser | Owner        | Contractor   |

**SALVAGED ITEMS**

| ITEM                  | LOCATION | SALVAGED TO |
|-----------------------|----------|-------------|
| Visual Display Board  | Room 101 | FM Group    |
| Volume Control Switch | Room 101 | FM Group    |

DRAWING ISSUE SCHEDULE

| # | DATE | DESCRIPTION |
|---|------|-------------|
|   |      |             |

PROJECT NAME:  
**THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS**

PROJECT FOR:  
**Roxborough Park, Harvestland, & Taylorsville UT North Central Stake**

DATE:  
14 JUNE 2017

PLAN PROJECT #:  
Cody (CO-7P-009)

PROPERTY #:  
518-8636

PLANNING #:  
3120 West 4700 South  
Taylorsville, Utah

PHONE:  
801.571.0010

FAX:  
801.571.0003

DRIVER, UTAH #  
84020

ARCHITECTS:  
bbi

TOLL FREE:  
888.571.0010



PROJECT FOR:  
**THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS**

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SHEET TITLE:  
**ENLARGED PLANS, ELEVATIONS, AND DETAILS**

SHEET:  
**A101**



| MECHANICAL SYMBOLS  |   |
|---|---|
| NOTES:<br>1. ALL SYMBOLS MAY NOT BE USED.<br>2. DOTTED SYMBOLS INDICATE EXISTING EQUIPMENT, ETC |   |
| SYMBOL  | EXPLANATION   |
| ∅   | ROUND MEASUREMENT.  |
| ↻   | RETURN AIR  |
| ↻   | SUPPLY AIR  |
| ↻   | EXHAUST AIR   |
| ⊠   | EXHAUST FAN   |
| ⊠   | MECHANICAL EQUIPMENT SYMBOL   |
| ⊠   | KEYED NOTE REFERENCE  |
| ⊠   | DUCT SIZE FROM MAIN DUCT TO DIFFUSER, DIFFUSER OR GRILLE BALANCED TO CFM. |
| —SA—  | SUPPLY AIR DUCTWORK   |
| —RA—  | RETURN AIR DUCTWORK   |
| —EA—  | EXHAUST AIR DUCTWORK  |

- GENERAL MECHANICAL NOTES:**
1. ALL FRESH AIR INTAKES SHALL BE 10 FEET MIN. FROM ALL EXHAUST & PLUMBING VENTS.
  2. COORDINATE ALL WORK WITH OTHER TRADES AS REQUIRED.
  3. MECHANICAL CONTRACTOR SHALL VISIT THE PROJECT SITE DURING THE BIDDING PROCESS.
  4. REMOVE OR RELOCATE ANY EXISTING VENTILATION DUCTWORK AND ASSOCIATED SUPPLY AIR/RETURN AIR REGISTERS IN CONFLICT WITH THIS MECHANICAL PLAN. COORDINATE ALL REQ'S WITH OWNER. EXTEND OR REMOVE & TERMINATE ANY DUCTWORK AS REQUIRED. MAINTAIN FUNCTIONALITY OF ALL DOWNLINE REGISTERS. RETURN ANY REMOVED EQUIPMENT TO OWNER OR DISPOSE AS DIRECTED BY OWNER. VERIFY ALL ITEMS WITH OWNER.

- MECHANICAL PERFORMANCE NOTES:**
- M1. COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH GENERAL CONTRACTOR. VERIFY IN FIELD.

- SEISMIC SUPPORT NOTES:**
- BRACING FOR SUSPENDED DUCTWORK, ETC
1. PER ASCE STANDARD 7-10 SEISMIC SUPPORTS ARE NOT REQUIRED FOR EITHER OF THE FOLLOWING CONDITIONS:  
A. HVAC DUCTS ARE SUSPENDED WITH HANGERS 12" OR LESS IN LENGTH.  
B. HVAC DUCTS HAVE A CROSS-SECTIONAL AREA OF LESS THAN 6 SQUARE FEET.
  2. IF INSTANCES OCCUR WHERE HVAC DUCT IS SUSPENDED WITH HANGERS GREATER THAN 12" IN LENGTH AND HVAC DUCT HAS A CROSS-SECTIONAL AREA GREATER THAN 6 SQUARE FEET SYSTEM CONNECTORS AND COMPONENTS SHALL BE COMPATIBLE AND DESIGNED FOR THE APPLICATION THAT THEY ARE USED FOR. SHALL HAVE A MINIMUM OF TWO TRANSVERSE BRACES PER STRAIGHT DUCT RUN WITH A MAXIMUM DISTANCE OF 30' BETWEEN TRANSVERSE BRACES. SHALL HAVE A MINIMUM OF ONE LONGITUDINAL BRACE PER STRAIGHT DUCT RUN WITH A MAXIMUM DISTANCE OF 40' BETWEEN LONGITUDINAL BRACES. BRACING SHALL ONLY OCCUR AT OR NEAR AREAS WHERE SUFFICIENT DUCT STIFFNESS IS PRESENT (AT OR NEAR JOINT CONNECTIONS).
  3. FOR SEISMIC BRACING OF MECHANICAL EQUIPMENT AN INDEPENDENT SEISMIC AND VIBRATION CONTROL SUBCONTRACTOR WITH EXPERIENCE, COMPUTING CAPABILITIES, AND MANUFACTURED PRODUCTS SHALL BE FURNISHED BY MECHANICAL CONTRACTOR. INDEPENDENT SEISMIC CONSULTANT SHALL PROVIDE REQUIRED COMPUTATIONS, SHOP DRAWINGS, AND MANUFACTURED PRODUCTS TO MEET THE MINIMUM REQUIREMENTS OF ASCE 7-10 AND INTERNATIONAL BUILDING CODES (LATEST ADOPTED EDITION) FOR THE RESPECTIVE SEISMIC DESIGN FOR SEISMIC ZONE WITH IMPORTANCE FACTOR 1.5. SEISMIC SUBCONTRACTOR SHALL EXERCISE THE QUALITY CONTROL FOR THIS WORK AND SHALL NOT BE LIMITED TO INSTRUCTIONS DIRECTED TO THE MECHANICAL CONTRACTOR. THE SEISMIC SUBCONTRACTOR SHALL CERTIFY IN WRITING THAT THEY HAVE INSPECTED THE INSTALLATION AND THAT ALL ISOLATION ANCHORS AND SEISMIC RESTRAINT MATERIALS ARE INSTALLED CORRECTLY AND FUNCTIONING PROPERLY. CERTIFICATION SHALL BE PROVIDED AFTER ALL CORRECTIVE WORK HAS BEEN COMPLETED.

- SEISMIC SUPPORT NOTES:**
- BRACING FOR SUSPENDED PIPING, ETC
1. PER ASCE STANDARD 7-10 SEISMIC SUPPORTS ARE NOT REQUIRED FOR THE FOLLOWING CONDITION:  
A. PIPING IS SUPPORTED BY ROD HANGERS 12" OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE.  
B. HIGH-DEFORMABILITY PIPING IS USED.
  2. IF INSTANCES OCCUR WHERE PIPING IS SUSPENDED BY HANGERS GREATER THAN 12" IN LENGTH, SYSTEM CONNECTORS AND COMPONENTS SHALL BE COMPATIBLE AND DESIGNED FOR THE APPLICATION THAT THEY ARE USED FOR. SHALL HAVE A MINIMUM OF TWO TRANSVERSE BRACES PER STRAIGHT PIPING RUN. THE MAXIMUM DISTANCE BETWEEN TRANSVERSE BRACES WILL BE DETERMINED BY PIPE SIZE AND PIPING COMPOSITION. SHALL HAVE A MINIMUM OF ONE LONGITUDINAL BRACE PER STRAIGHT DUCT RUN. IF LENGTH OF PIPING EXCEEDS LONGITUDINAL BRACE SPACING, ADDITIONAL LONGITUDINAL BRACES WILL BE REQUIRED.
  3. FOR SEISMIC BRACING OF PLUMBING EQUIPMENT AND PIPING AN INDEPENDENT SEISMIC AND VIBRATION CONTROL SUBCONTRACTOR WITH EXPERIENCE, COMPUTING CAPABILITIES, AND MANUFACTURED PRODUCTS SHALL BE FURNISHED BY PLUMBING CONTRACTOR. INDEPENDENT SEISMIC CONSULTANT SHALL PROVIDE REQUIRED COMPUTATIONS, SHOP DRAWINGS, AND MANUFACTURED PRODUCTS TO MEET THE MINIMUM REQUIREMENTS OF ASCE 7-10 AND INTERNATIONAL BUILDING CODES (LATEST ADOPTED EDITION) FOR THE RESPECTIVE SEISMIC DESIGN FOR SEISMIC ZONE WITH IMPORTANCE FACTOR 1.5. SEISMIC SUBCONTRACTOR SHALL EXERCISE THE QUALITY CONTROL FOR THIS WORK AND SHALL NOT BE LIMITED TO INSTRUCTIONS DIRECTED TO THE PLUMBING CONTRACTOR. THE SEISMIC SUBCONTRACTOR SHALL CERTIFY IN WRITING THAT THEY HAVE INSPECTED THE INSTALLATION AND THAT ALL ISOLATION ANCHORS AND SEISMIC RESTRAINT MATERIALS ARE INSTALLED CORRECTLY AND FUNCTIONING PROPERLY. CERTIFICATION SHALL BE PROVIDED AFTER ALL CORRECTIVE WORK HAS BEEN COMPLETED.

**PLUMBING SYMBOLS**

NOTES:  
1. ALL SYMBOLS MAY NOT BE USED.  
2. DOTTED SYMBOLS INDICATE EXISTING EQUIPMENT, ETC

|           |                                  |
|-----------|----------------------------------|
| — S — S — | SANITARY OR WASTE PIPING         |
| — — — —   | VENT PIPING                      |
| — CW —    | COLD WATER PIPING                |
| — HW —    | HOT WATER PIPING                 |
| — GAS —   | GAS PIPING                       |
| — SD —    | STORM DRAIN PIPING               |
| — SS —    | UNDERGROUND STORM SEWER PIPING   |
| — RD —    | ROOF DRAIN PIPING                |
| — ORD —   | OVERFLOW ROOF DRAIN PIPING       |
| — OSD —   | OVERFLOW STORM DRAIN PIPING      |
| — GR —    | GREASE PIPING                    |
| — RW —    | RECIRCULATION WATER PIPING       |
| ○         | PIPE RISER OR FIXTURE CONNECTION |
| ⊥         | WALL HYDRANT/HOSE BIBB           |
| ⊙         | FLOOR DRAIN                      |
| ⊠         | AREA DRAIN                       |
| — PRV —   | PRESSURE REDUCING VALVE STATION  |
| — — — —   | GATE VALVE & BACKFLOW PREVENTOR  |

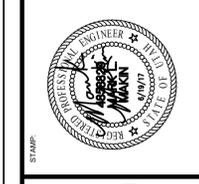
- GENERAL PLUMBING NOTES:**
1. SEE WASTE AND VENT PIPING SCHEMATIC(S) FOR ADDITIONAL INFORMATION ON PIPING SIZES.
  2. SEE WATER PIPING SCHEMATIC(S) FOR ADDITIONAL INFORMATION ON PIPING SIZES.
  3. CONTRACTOR SHALL VERIFY LOCATION, SIZE, AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
  4. COORDINATE ALL WORK WITH OTHER TRADES AS REQUIRED.
  5. CONCEAL ALL PIPING IN FINISHED AREAS.
  6. PROVIDE AND INSTALL ALL REQUIRED VALVES IN PIPING SYSTEM.
  7. INSULATE ALL HOT AND COLD WATER PIPING PER APPLICABLE CODES.
  8. MAKE PROVISIONS FOR A TRAP GUARD WHERE REQUIRED.
  9. PLUMBING CONTRACTOR SHALL VISIT THE PROJECT SITE DURING THE BIDDING PROCESS.
  10. PLUMBING CONTRACTOR SHALL DETERMINE ACTUAL PIPE ROUTING IN FIELD PER AVAILABLE SPACE AND BUILDING CONSTRUCTION.
  11. PROVIDE AND INSTALL ALL REQUIRED CLEANOUTS. CLEANOUTS FOR HORIZONTAL DRAINS SHALL BE INSTALLED NO MORE THAN 100' APART. CLEANOUTS SHALL BE INSTALLED AT EACH CHANGE OF DIRECTION GREATER THAN 45°. A CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH WASTE OR SOIL STACK. CLEANOUTS SHALL BE ACCESSIBLE AND THE SAME SIZE AS THE WASTE LINES ON WHICH THEY ARE INSTALLED.
  12. ALL PLUMBING VENTS MUST BE A MINIMUM 10- FEET FROM ALL FRESH AIR INTAKES.
  13. WATER PIPING MATERIAL SHALL MEET THE STANDARDS SET FORTH IN IPC TABLES 605.3, 605.4 & 605.5.
  14. SANITARY WASTE AND VENT PIPING MATERIAL SHALL MEET THE STANDARDS SET FORTH IN IPC TABLES 702.1, 702.2 AND 702.3 & 702.4.
  15. REMOVE OR RELOCATE ANY EXISTING PLUMBING FIXTURES & ASSOCIATED PIPING IN CONFLICT WITH THIS PLUMBING PLAN. COORDINATE ALL REQ'S WITH OWNER. EXTEND OR REMOVE & TERMINATE ANY PIPING AS REQUIRED. MAINTAIN FUNCTIONALITY OF ALL DOWNLINE FIXTURES. RETURN ANY REMOVED FIXTURES & PIPING TO OWNER OR DISPOSE FIXTURES AND PIPING AS DIRECTED BY OWNER. VERIFY ALL ITEMS WITH OWNER.
  16. TRENCHES THAT ARE EXCAVATED BELOW THE INSTALLATION LEVEL OF PIPE (SUCH THAT THE TRENCH BOTTOM DOES NOT FORM THE BED FOR THE PIPE) SHALL BE BACKFILLED TO THE INSTALLATION LEVEL OF THE BOTTOM OF THE PIPE WITH SAND OR FINE GRAVEL PAVED IN LAYERS OF 6 INCHES MAXIMUM DEPTH. THE BACKFILL SHALL BE COMPACTED AFTER EACH PLACEMENT. IPC 306.2.1

- PLUMBING PERFORMANCE NOTES:**
- P1. MAKE CONNECTION TO EXISTING WATER SUPPLY LINE. FIELD LOCATE AND VERIFY SIZE AND ALL REQUIREMENTS.
  - P2. MAKE CONNECTION TO EXISTING SEWER LINE. MODIFY SEWER LINE TO ACCOMMODATE NEW PLUMBING FIXTURES. PROVIDE AND INSTALL ALL REQUIRED CLEANOUTS.
  - P3. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL WATER TEMPERING DEVICE (SHALL CONFORM TO ASSE 1070) FOR ALL HAND WASH AREAS IN PROJECT. HOT WATER TEMPERATURE SHALL HAVE A MAXIMUM TEMPERATURE OF 110° F. 2015 IPC 607.1.2.
  - P4. COORDINATE ALL REQUIRED SAW CUTTING OF EXISTING FLOOR OR SLAB FOR DRAIN PIPING, ETC. WITH GENERAL CONTRACTOR. REPAIR FLOOR OR SLAB AS DIRECTED BY GENERAL CONTRACTOR.
  - P5. PLUMBING CONTRACTOR TO INSTALL WATER LINE IN ATTIC WITHIN BUILDING THERMAL ENVELOPE. IT WILL BE NECESSARY TO BUILD A BOX AROUND WATER LINE AND ENSURE THAT THE BOX IS COVERED BY ATTIC INSULATION. WATER LINE SHALL BE INSULATED FROM COLD ATTIC.

DRAWING ISSUE SCHEDULE

| # | DATE | DESCRIPTION |
|---|------|-------------|
|   |      |             |

**ROYAL ENGINEERING**  
 2325 SOUTH STATE BLVD. SUITE 100  
 PROVO, UTAH 84606  
 PHONE: 801.733.2278  
 FAX: 801.733.2278  
 REG. NO. 123456789  
 LICENSE NO. 123456789



**bh ARCHITECTS**  
 65 E. Wadsworth Park Dr., Ste. 205  
 Draper, Utah 84020  
 Phone: 801.571.0010  
 Fax: 801.571.0003  
 Toll Free: 888.571.0010  
 bharchitects.com

**THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS**

**PROJECT NAME:**  
 Roxborough Park, Harvestland, & Taylorsville UT North Central Stake

**PROJECT FOR:**  
 THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

**DATE:**  
 14 June 2017

**PLAN SERIES:**  
 Cody (CO-7B-008)

**PROPERTY #:**  
 518-8636

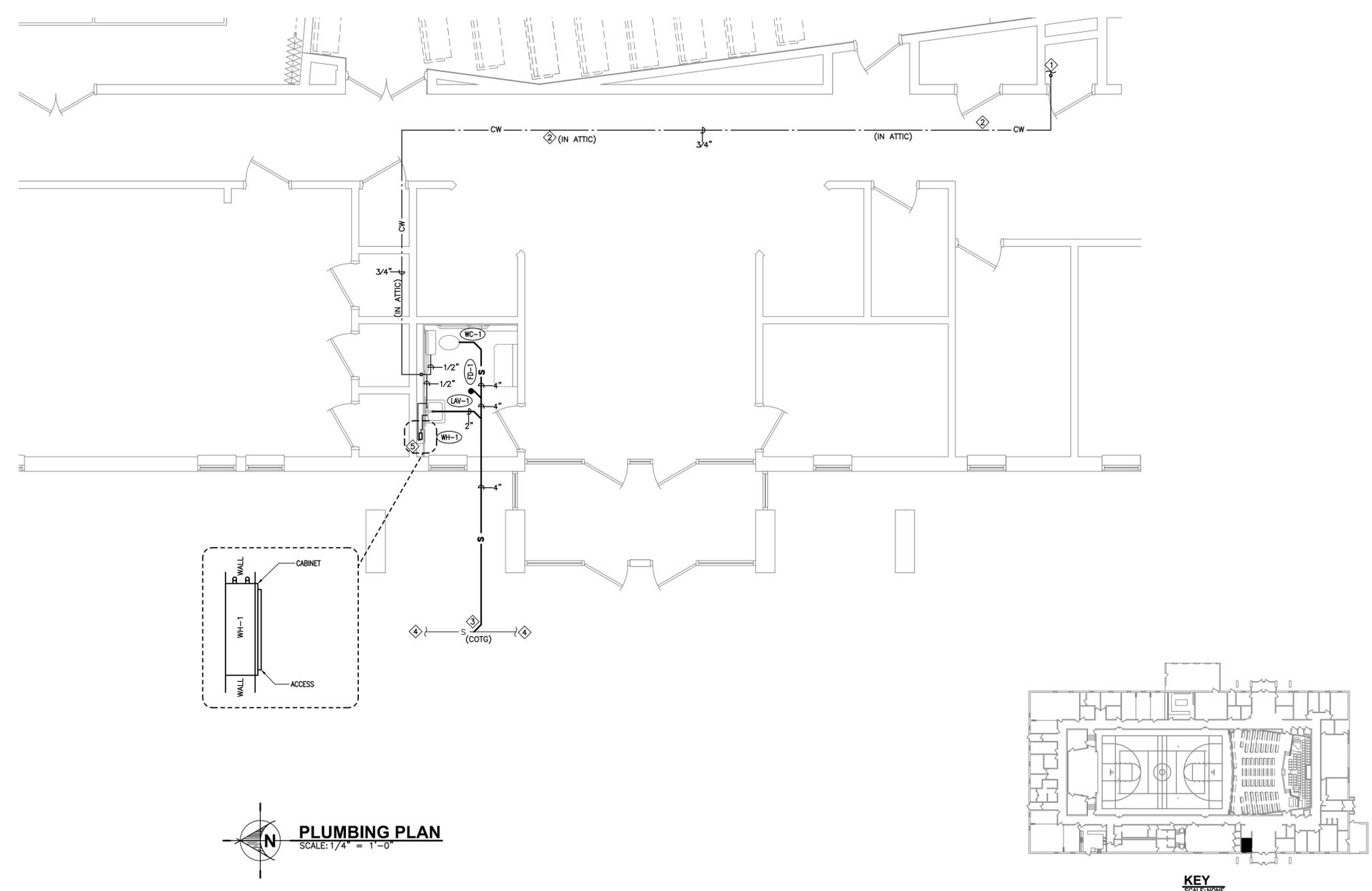
**BIDDING PROJECT #:**  
 1725

**3120 West 4700 South  
 Taylorsville, Utah**

**SHEET TITLE:**  
 NOTES & SYMBOLS

**SHEET:**  
 M001

- PLUMBING KEYED NOTES:**
- ① COMPLETE WATER CONNECTION TO EXISTING COLD WATER LINE AT THE HOT WATER HEATER. FIELD VERIFY EXACT LOCATION.
  - ② CONTRACTOR TO INSTALL WATER LINE IN ATTIC SPACE. CONTRACTOR SHALL BUILD A BOX AROUND NEW WATER LINE TO PREVENT LINE FROM FREEZING.
  - ③ COMPLETE CONNECTION TO EXISTING 4" SEWER LINE. FIELD VERIFY EXACT LOCATION.
  - ④ APPROXIMATE LOCATION OF EXISTING 4" SEWER LINE. FIELD VERIFY EXACT LOCATIONS.
  - ⑤ INSTALL WATER HEATER WITHIN CABINET WITH ACCESS. INSTALL PER MANUFACTURERS RECOMMENDATIONS. VERIFY FINAL LOCATION WITH OWNER REPRESENTATIVE.



| # | DATE | DESCRIPTION |
|---|------|-------------|
|   |      |             |
|   |      |             |
|   |      |             |

**ROYAL ENGINEERING**  
 ARCHITECTS  
 2325 SOUTH STATE BLVD. SUITE 100  
 DRAFTER: JAMES J. JOHNSON  
 PROJECT: UTW 14008  
 DATE: 03/22/2017



**11th ARCHITECTS**  
 65 E. Wadsworth Park Dr., Ste. 205  
 Draper, Utah 84020  
 Phone: 801.571.0010  
 Fax: 801.571.0033  
 Total Free: 888.571.0010  
 b11architects.com

**THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS**

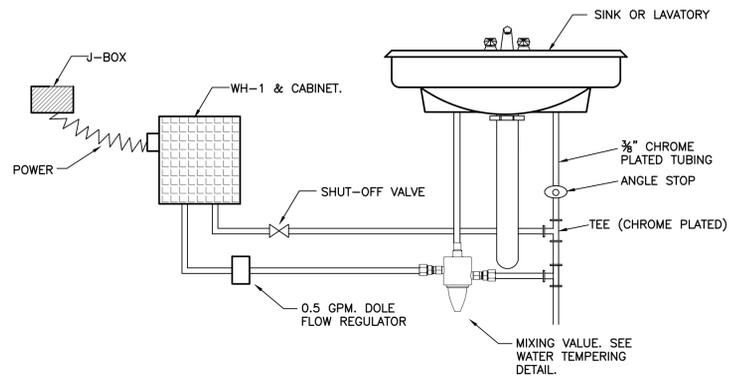
**PROJECT NAME:** Roxborough Park, Harvestland, & Taylorsville UT North Central Stake  
**DATE:** 14 June 2017  
**PLAN SERIES:** Cody (CO-7P-008)  
**PROPERTY #:** 518-8636

**SHEET TITLE:** PLUMBING PLAN

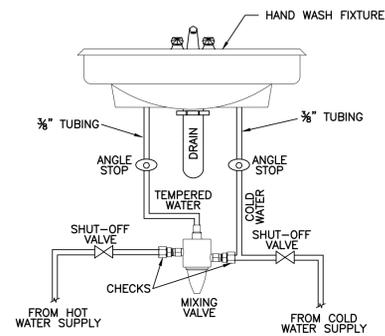
**SHEET:** M201







**A** INSTANTANEOUS WATER HEATER DETAIL  
SCALE: NONE

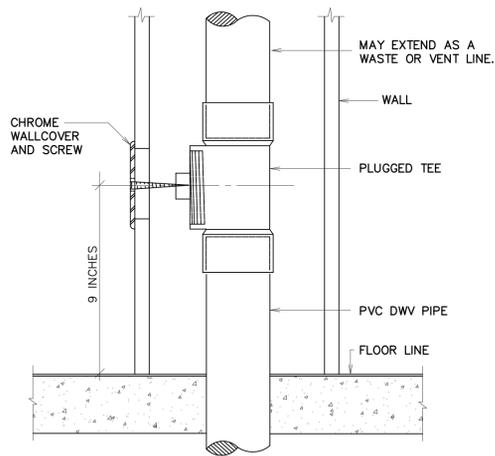


MIXING VALVE DESIGN STANDARD: SYMMONS 7-210-CK (5 gpm)

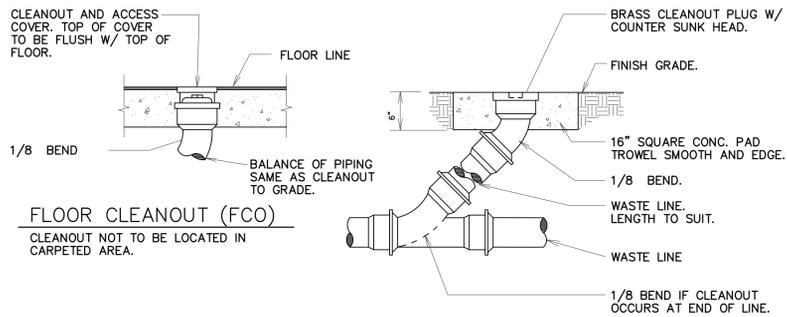
NOTES:

1. PROVIDE WITH SEPARATE CHECKS AND WALL MOUNTING BRACKET.
2. SHALL CONFORM TO ASSE 1070 - LIMIT THE TEMPERED WATER TEMPERATURE TO A MAXIMUM OF 110 deg F. IPC 2015, 607.1.2.
3. SET MIXING VALVE TEMPERATURE WHEN INSTALLATION IS COMPLETE.
4. FOLLOW ALL MANUFACTURER INSTALLATION AND OTHER INSTRUCTIONS.
5. APPROVED MANUFACTURERS: SYMMONS, POWERS, LEONARD, BRADLEY, WATTS, LAWLER.
6. INSTALL HANDY-SHIELD, AS MANUFACTURED BY PLUMBERX SPECIALTY PRODUCTS, SAFETY COVERS ON ALL SUPPLY PIPING AND WASTE PIPING BENEATH HANDICAPPED LAVATORIES. SHIELDS SHALL MEET THE REQUIREMENTS OF UNIFORM FEDERAL ACCESSIBILITY STANDARDS 4.19.4 GSA AND ANSI DOCUMENT A117-1-1980.

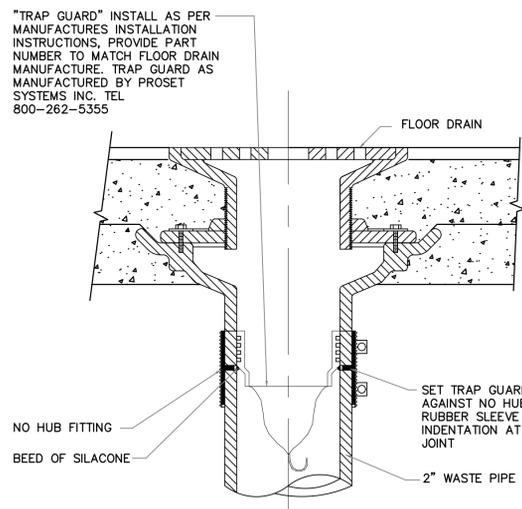
**B** WATER TEMPERING DETAIL  
SCALE: NONE



**E** WALL CLEANOUT DETAIL  
SCALE: NONE



**C** CLEANOUT DETAILS  
SCALE: NONE



**G** TRAP GUARD TRAP SEAL DETAIL  
SCALE: NONE

| EXHAUST FAN SCHEDULE ① ② |             |               |                          |               |                           |
|--------------------------|-------------|---------------|--------------------------|---------------|---------------------------|
| MARK                     | SERVES ROOM | MIN. S.C.F.M. | STATIC PRESSURE IN. W.G. | MINIMUM WATTS | REMARKS                   |
| CEF 1                    | RESTROOM    | 75            | 0.3                      | 81W           | PROVIDE BACK-DRAFT DAMPER |

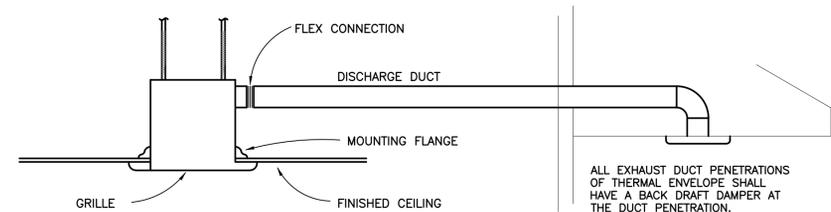
① CONTROL BY DIVISION 26.

② VOLTAGE IS 115V/1 PHASE/60HZ

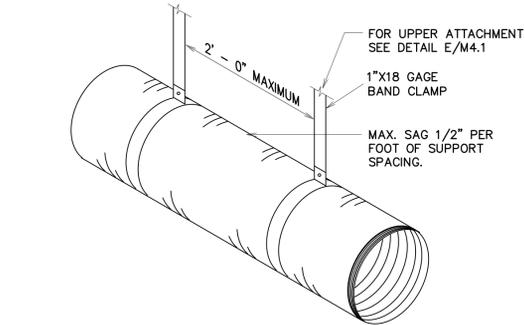
| PLUMBING FIXTURE SCHEDULE ① |                                      |           |        |        |      |   |
|-----------------------------|--------------------------------------|-----------|--------|--------|------|---|
| MARK                        | FIXTURE                              | PIPE SIZE |        |        |      | REMARKS   |
|                             |                                      | TRAP      | WASTE  | VENT   | H.W. |   |
| WC-1                        | WATER CLOSET                         | INT.      | 4"     | 2"     | 1/2" | FLUSH TANK, FLOOR MOUNT   |
| LAV-1                       | LAVATORY                             | 1-1/4"    | 1-1/4" | 1-1/2" | 1/2" | SELF SUPPORTING 20"x18"   |
| FD-1                        | FLOOR DRAIN                          | 2"        | 2"     | 2"     | -    | WITH DEEP SEAL P-TRAP   |
| WH-1                        | ELECTRIC WATER HEATER (POINT OF USE) | -         | -      | -      | 1/2" | TANKLESS WATER HEATER. DESIGN STANDARD: EMAX EX3512 W/ NEMA 4X CABINET (WHITE), 120V, 3.5KW, 48 deg F RISE @ 0.5 GPM. (OR OWNER APPROVED EQUAL) |

① NEW COLD WATER FIXTURE UNITS (SEE SCHEMATICS).  
NEW WASTE WATER FIXTURE UNITS (SEE SCHEMATICS).

② WHEN MOUNTED PER ARCHITECTURAL ELEVATIONS, ADA ACCESSIBILITY REQUIREMENTS ARE SATISFIED.



**D** TYPICAL CEILING MOUNTED EXHAUST FAN  
SCALE: NONE



**F** FLEXIBLE DUCT SUPPORT DETAIL  
SCALE: NONE

| # | DATE | DESCRIPTION |
|---|------|-------------|
|   |      |             |

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**THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS**

**Roxborough Park, Harvestland, & Taylorsville UT North Central Stake**  
3120 West 4700 South  
Taylorsville, Utah  
BIDD PROJECT # 1725  
DATE 14 June 2017  
PLAN SERIES Cody (CO-7P-008)  
PROPERTY # 518-8636

SHEET TITLE: **SCHEDULES & DETAILS**

SHEET: **M601**

|                           |  |
|---------------------------|--|
| DATE                      |  |
| DESCRIPTION               |  |
| DRAWING REVISION SCHEDULE |  |

**ROYAL ENGINEERING**  
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**ELECTRICAL COVER SHEET**  
 SHEET TITLE: E001

**ELECTRICAL GENERAL NOTES:**

- ALL SALVAGEABLE MATERIALS AS DETERMINED BY THE ARCHITECT RESULTING FROM THE DEMOLITION OF THE EXISTING STRUCTURE AS INDICATED ON THE DEMOLITION PLAN AND WHICH ARE NOT TO BE RE-USED SHALL BECOME THE PROPERTY OF THE OWNER AND SHALL BE DISPOSED OF BY HIM. ALL MATERIALS NOT SO DESIGNATED AS SALVAGEABLE BY THE ARCHITECT SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY HIM.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIELD ROUTING WITH EXISTING EQUIPMENT. PROVIDE ALL NECESSARY OFFSETS TO AVOID CONFLICTS WITH EXISTING EQUIPMENT OR OTHER OBSTRUCTIONS.
- ALL EXISTING FIXTURES, DEVICES, EQUIPMENT, ETC. IN PORTIONS OF THE BUILDING BEING REMODELED SHALL REMAIN IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC.
- ELECTRICAL CONTRACTOR IS TO VISIT THE PROJECT SITE DURING THE BIDDING PROCESS TO DETERMINE THE TOTAL SCOPE OF THE DEMOLITION.
- ELECTRICAL CONTRACTOR IS TO REFER TO THE ARCHITECTURAL AND MECHANICAL DEMOLITION DRAWINGS. THE ARCHITECTURAL AND MECHANICAL DEMOLITION DRAWINGS ARE PART OF THIS CONTRACT.
- ALL BIDS SHALL TAKE THE EXISTING CONDITIONS INTO CONSIDERATION. THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY. NO SUBSEQUENT ALLOWANCE FOR TIME OR MONEY WILL BE ALLOWED FOR WORK OR CHANGES RESULTING FROM CONTRACTOR'S FAILURE TO EXAMINE SITE CONDITIONS.
- MULTI-WIRE BRANCH CIRCUITS: ELECTRICAL CONTRACTOR TO COMPLY WITH THE NATIONAL ELECTRICAL CODE, ARTICLE 210.4. MULTI-WIRE BRANCH CIRCUITS WIRE AMPACITY ADJUSTMENT AS PER ARTICLE 310, TABLE 310.15(B)(2)(A) OF THE NATIONAL ELECTRICAL CODE.
- REFER TO ARCHITECTURAL CABINET CASEWORK ELEVATION DRAWINGS FOR CLARIFICATION ON MOUNTING AND PLACEMENT OF ALL RACEWAY, RECEPTACLES, AND SWITCHES.
- MANY DEVICE MOUNTING LOCATIONS ARE DEPENDANT ON MILLWORK LOCATIONS. COORDINATE ALL APPLICABLE LOCATIONS WITH MILLWORK INSTALLER PRIOR TO BEGINNING WORK.
- REMOVE OR RELOCATE ANY EXISTING ELECTRICAL DEVICES, AND CIRCUIT CONDUIT IN CONFLICT WITH THIS ELECTRICAL PLAN. COORDINATE ALL REQUIREMENTS WITH OWNER. REMOVE CIRCUIT CONDUIT BACK TO NEAREST JUNCTION BOX. MAINTAIN POWER TO DOWNLINE DEVICES. EXTEND CIRCUIT CONDUIT AS REQUIRED. RETURN ANY REMOVED DEVICES TO OWNER OR DISPOSE OF THEM AS DIRECTED BY OWNER.
- ALL WALL MOUNTED MOTION SENSORS SHALL BE A DUAL TECHNOLOGY MOTION SENSOR WITH INTEGRAL OVERRIDE SWITCH. MOTION SENSOR TO MOUNT IN A STANDARD SWITCH BOX. MOTION SENSOR TO HAVE A FIFTEEN MINUTE TIME DELAY SET AT TEN MINUTES. USE HUBBELL, SENSOR SWITCH, LEVITON, OR APPROVED EQUAL.
- SUB-LETTERS NEXT TO SWITCHES INDICATE SWITCHING ASSIGNMENTS. ELECTRICAL CONTRACTOR IS TO FURNISH AND INSTALL ALL NECESSARY CONDUIT, WIRE JUNCTION BOXES, ETC., AS REQUIRED TO EXTEND CIRCUITING FROM WALL BOX AND/OR FROM THE LIGHTING CONTROL PANEL TO FIXTURES FOR SWITCHING ASSIGNMENTS. LOWER CASE LETTERS ON OR NEAR FIXTURES INDICATE CONTROLLING SWITCHES. SWITCH LEG(S) NOT SHOWN.
- NEW INSTALLATION SHALL CONFORM TO THE NEC REVISION OBSERVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL PROVIDE AS-BUILT PANEL SCHEDULES, SWITCH LAYOUT & SWITCHING DIAGRAM TO THE OWNER.
- ALL WORK SHALL BE CAREFULLY LAID OUT IN ADVANCE TO AVOID UNNECESSARY CUTTING, CHANNELING, CHASING OR DRILLING OF WALLS, PARTITIONS, FLOORS, CEILINGS OR OTHER SURFACES. WHERE SUCH WORK IS NECESSARY FOR THE PROPER INSTALLATION, SUPPORT OR ANCHORAGE OF RACEWAYS, OUTLETS OR OTHER ELECTRICAL WORK, IT SHALL BE CAREFULLY DONE IN SUCH A MANNER AS TO AVOID ANY DAMAGE TO THE EXISTING INSTALLATION. ALL DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIELD ROUTING WITH EXISTING EQUIPMENT. PROVIDE ALL NECESSARY OFFSETS TO AVOID CONFLICTS WITH EXISTING EQUIPMENT OR OTHER OBSTRUCTION.
- CONTRACTOR SHALL INCLUDED PROVISIONS IN THE BASE BID FOR ALL MATERIAL & LABOR REQUIRED FOR THE EXTENSIONS, REROUTING & RELOCATION OF EXISTING SYSTEM COMPONENTS, EQUIPMENT, WIRING, CONDUITS & CABLING. COORDINATION SHALL BE DONE TO MAINTAIN OPERATION OF ALL SYSTEMS THROUGHOUT THE BUILDING DURING DEMOLITION & CONSTRUCTION PHASES.
- EXISTING RACEWAYS MAY BE REUSED IF LOCATION IS IN COMPLIANCE WITH THE CONTRACT DOCUMENTS. UPGRADE AND/OR PROVIDE NEW CONDUIT SUPPORTS FOR ALL RACEWAYS BEING REUSED AS REQUIRED. INSURE INTEGRITY OF EXISTING RACEWAYS BEFORE RE-USE.
- MAINTAIN CIRCUIT INTEGRITY & CONTINUITY OF ALL EXISTING CIRCUITS, FEEDERS & SYSTEMS THAT INTERFERE WITH OR ARE INTERRUPTED BY REMODEL WORK. UNLESS THOSE CIRCUITS, FEEDERS & SYSTEMS ARE IN OPERATION DURING CONSTRUCTION. PROVIDE TEMPORARY PANELS, TEMPORARY WIRING & CONDUITS, ETC. AS REQUIRED.
- DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOF, ETC.
- ALL EXISTING FIXTURES, DEVICES, EQUIPMENT, ETC. IN PORTIONS OF THE BUILDING NOT BEING REMODELED SHALL REMAIN IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC.
- EXISTING ELECTRICAL DEVICES TO REMAIN UNLESS NOTED OTHERWISE.
- CONCEAL ALL RACEWAY & WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC.
- ELECTRICAL CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING AND OTHER DRAWINGS PRIOR TO BID.
- ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO DUCTS, PIPING, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER, OR PASS THROUGH ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL CONTRACTOR SHALL REVIEW ALL ARCHITECTS ELEVATIONS, SECTIONS AND FLOOR PLANS PRIOR TO ROUGH-IN OF ELECTRICAL DEVICE JUNCTION BOXES.
- VERIFY EXACT LOCATION(S) OF ALL EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN. REFER TO THE MECHANICAL SHEETS FOR THE EXACT LOCATION OF THE MECHANICAL EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-IN. CONSULT CONTRACT DOCUMENT DRAWINGS AND SHOP DRAWINGS TO VERIFY AND MAINTAIN REQUIRED CLEARANCES.
- WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER, PER INDUSTRY STANDARD AND TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
- WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES, STANDARDS AND ORDINANCES.
- THE MINIMUM SIZE OF THE CONDUCTORS ARE TO BE #12 AWG THIN COPPER, UNLESS INDICATED OTHERWISE ON THE DRAWINGS. STRANDED CONDUCTORS ARE NOT ALLOWED IN THE CONDUCTORS SMALLER THAN #10 AWG.
- DETAILS ARE SHOWN ON DIFFERENT SHEETS. THE CONTRACTOR SHALL REFER TO THOSE DETAILS WHETHER OR NOT CALLED IN REFERENCE NOTES.
- ALL JUNCTION BOXES SHALL HAVE MINIMUM DEPTH OF 2-1/8" UNLESS OTHERWISE SPECIFIED. SECURE ALL JUNCTION BOXES AS SHOWN IN THE DETAILS. FURNISH AND INSTALL PROPER PLASTER RINGS.
- LIGHT SWITCHES INSTALLED ADJACENT TO EACH OTHER, SHALL BE GANGED TOGETHER WITH ONE PIECE COVER PLATE.
- USE EPOXY ANCHORS TO SUPPORT THE ELECTRICAL EQUIPMENT. EXPANSION ANCHOR BOLTS ARE NOT ACCEPTED.
- AT THE END OF THE JOB, PROVIDE BLANK COVER PLATES TO MATCH THE OTHER COVER PLATES FOR ALL JUNCTION BOXES WHERE DEVICES HAVE NOT YET BEEN INSTALLED.
- ALL MATERIALS USED IN THIS INSTALLATION SHALL BE U.L. APPROVED AND NEW.
- NO WIRING SHALL RUN IN DUCT WORK.
- THE ELECTRICAL CONTRACTOR SHALL TERMINATE THE ELECTRICAL CONNECTIONS TO ALL THE EQUIPMENT BY PROVIDING THE NECESSARY MALE/FEMALE CONNECTOR, RECEPTACLE, PLUG, ETC.
- CONTRACTOR SHALL MEASURE STEADY STATE LOAD CURRENTS AT EACH PANEL BOARD FEEDER FOR ALL ALTERED PANEL BOARDS. SHOULD THE DIFFERENCE BETWEEN PHASES EXCEED 20 PERCENT AT ANY PANEL BOARD, REARRANGE CIRCUITS IN PANEL BOARD TO BALANCE THE PHASE LOAD WITHIN 20 PERCENT. TAKE CARE TO MAINTAIN PROPER PHASING FOR MULTI-WIRE BRANCH CIRCUITS. UPDATE DIRECTORIES ACCORDINGLY.
- CONTRACTOR SHALL PROVIDE MINIMUM OF ONE WEEK NOTICE IN WRITING TO THE OWNER PRIOR TO ANY POWER OUTAGE. OUTAGES SHOULD BE PLANNED AROUND HOLIDAYS OR WEEKENDS. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FOR ALL POWER OUTAGES PRIOR TO COMMENCING WORK.
- CONTRACTOR TO ENSURE THAT ALL AREAS OUTSIDE OF CONSTRUCTION AREA ARE KEPT CLEAN AND CLEAR OF DEBRIS AND OBSTRUCTIONS AT ALL TIMES.

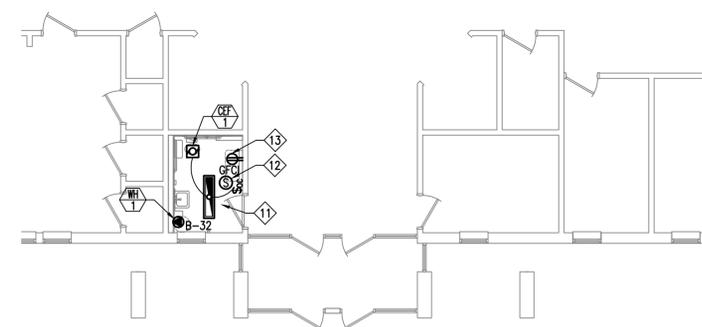
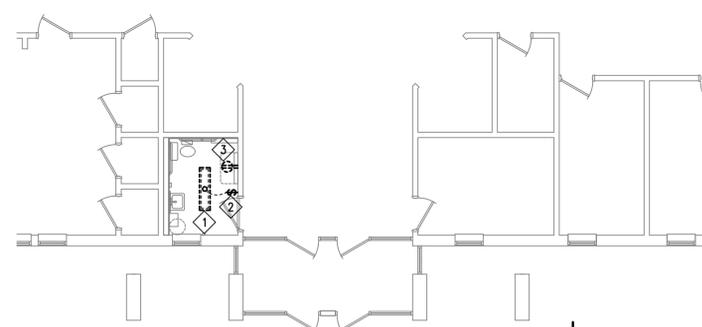
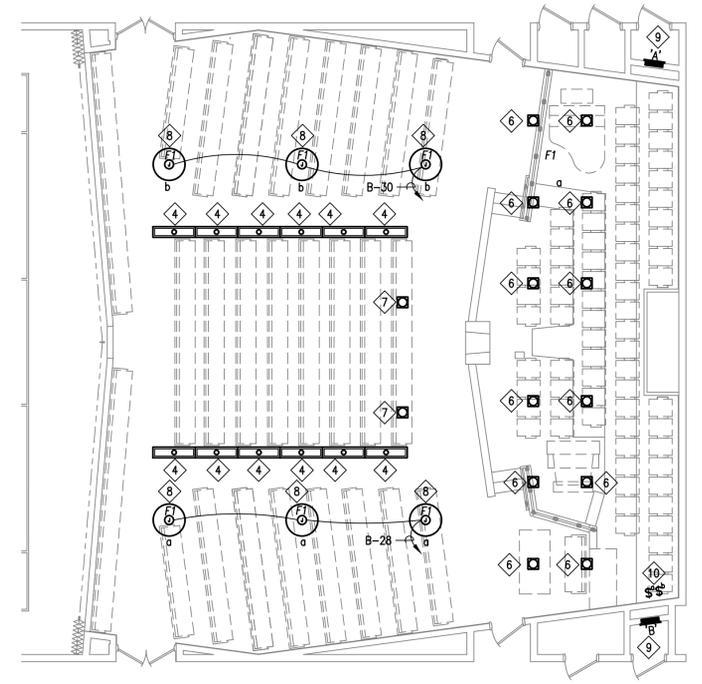
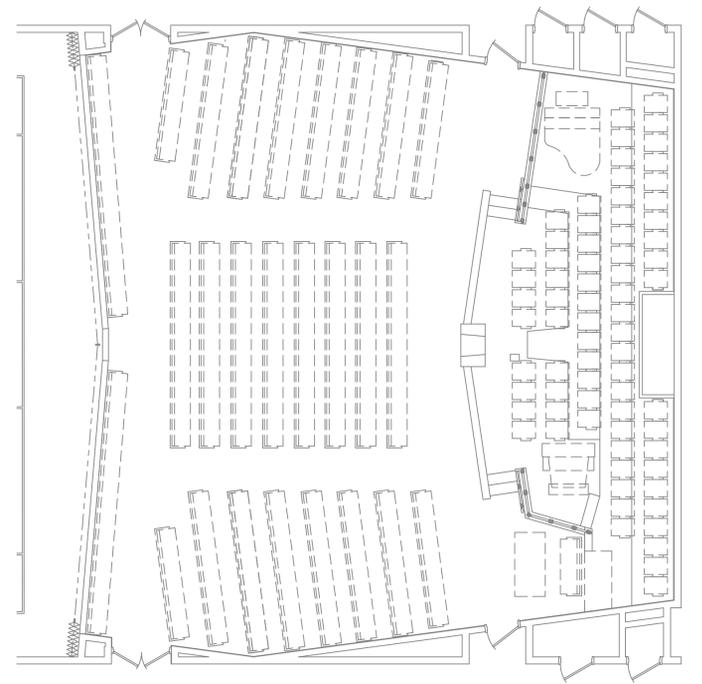
**ELECTRICAL SYMBOLS**

| SYMBOL | EXPLANATION   | SYMBOL | EXPLANATION  | SYMBOL | EXPLANATION   |
|--------|---|--------|--|--------|---|
| ---    | BRANCH CIRCUIT CONCEALED IN CEILING OR WALL           | F1     | FIXTURE TYPE SYMBOL  | ⊕      | TAMPER AND FLOW   |
| ---    | BRANCH CIRCUIT CONCEALED IN GROUND OR FLOOR           | ⊕      | FLUORESCENT FIXTURE (TYPICAL)  | ⊕      | FIRE ALARM CONTROL PANEL                                    |
| A-1,3  | BRANCH CIRCUIT HOMERUNS TO PANEL                      | ⊕      | EMERGENCY LIGHTING UNIT  | ⊕      | REMOTE FIRE ALARM ANNUNCIATOR PANEL                         |
| 135    | ROOM NUMBER   | ⊕      | SURFACE OR PENDANT MOUNTED FIXTURE   | ⊕      | FIRE ALARM NAC PANEL  |
| ⊕      | MECHANICAL EQUIPMENT SYMBOL                           | ⊕      | RECESSED FIXTURE   | ⊕      | FIRE ALARM VOICE PANEL                                      |
| ⊕      | KEYED NOTE REFERENCE                                  | ⊕      | WALL MOUNTED FIXTURE   | ⊕      | DOOR HOLDER   |
| 42X    | FEEDER TAG (SEE FEEDER SCHEDULE)                      | ⊕      | WALL PACK  | ⊕      | FIRE/SMOKE DAMPER   |
| ⊕      | LIGHTING AND POWER PANELBOARD                         | ⊕      | FLUORESCENT STRIP  | ⊕      | FIRE ALARM PULL STATION                                     |
| ⊕      | DISCONNECT SWITCH                                     | ⊕      | TRACK LIGHTING   | ⊕      | FIRE ALARM STROBE   |
| ⊕      | DISCONNECT SWITCH WITH MOTOR STARTER                  | ⊕      | EMERGENCY LIGHTING UNIT  | ⊕      | FIRE ALARM HORN/STROBE                                      |
| ⊕      | MOTOR STARTER   | ⊕      | WALL MOUNTED EXIT LIGHT (SINGLE FACE)  | ⊕      | FIRE ALARM HORN/STROBE (LF = LOW FREQUENCY)                 |
| ⊕      | VARIABLE FREQUENCY DRIVE                              | ⊕      | WALL MOUNTED EXIT LIGHT (DOUBLE FACE)  | ⊕      | FIRE ALARM HORN/STROBE WITH PROTECTIVE COVER                |
| ⊕      | CONDUIT STUB  | ⊕      | CEILING MOUNTED EXIT LIGHT   | ⊕      | FIRE ALARM SPEAKER/STROBE                                   |
| ⊕      | JUNCTION BOX  | ⊕      | CEILING MOUNTED EXIT LIGHT (DOUBLE FACE)   | ⊕      | FIRE ALARM SPEAKER/STROBE (LF = LOW FREQUENCY)              |
| ⊕      | ELECTRIC VEHICLE CHARGING STATION                     | ⊕      | EXIT LIGHT WITH PROTECTIVE COVER   | ⊕      | FIRE ALARM SPEAKER  |
| ⊕      | DUPLEX RECEPTACLE OUTLET                              | ⊕      | SINGLE POLE SWITCH (SUBSCRIPT AS INDICATED BELOW)  | ⊕      | FIRE ALARM SPEAKER (LF = LOW FREQUENCY)                     |
| ⊕      | WEATHERPROOF COVER & LISTED WEATHER RESISTANT DEVICE  | 2      | TWO POLE SWITCH  | ⊕      | FIRE ALARM HORN   |
| ⊕      | PROTECTED BY FAULT CIRCUIT INTERRUPTER                | 3      | 3-WAY SWITCH   | ⊕      | FIRE ALARM HORN (LF = LOW FREQUENCY)                        |
| ⊕      | MOUNTING HEIGHT ABOVE FLOOR OR GRADE GIVEN IN INCHES. | 4      | 4-WAY SWITCH   | ⊕      | FIRE ALARM STROBE CEILING MOUNTED                           |
| ⊕      | REFRIGERATOR  | x      | DIMMER SWITCH  | ⊕      | FIRE ALARM HORN/STROBE CEILING MOUNTED (LF = LOW FREQUENCY) |
| ⊕      | DISHWASHER  | k      | KEYED SWITCH   | ⊕      | FIRE ALARM HORN CEILING MOUNTED                             |
| ⊕      | DISPOSAL  | t      | TIMER SWITCH   | ⊕      | FIRE ALARM HORN CEILING MOUNTED (LF = LOW FREQUENCY)        |
| ⊕      | WASHING MACHINE                                       | M      | MANUAL STARTER WITH THERMAL OVERLOAD   | ⊕      | FIRE ALARM HORN CEILING MOUNTED (LF = LOW FREQUENCY)        |
| ⊕      | ELECTRIC WATER COOLER                                 | f      | PADDLE FAN SPEED CONTROL. (CANARM "CN" SERIES)   | ⊕      | FIRE ALARM HORN CEILING MOUNTED (LF = LOW FREQUENCY)        |
| ⊕      | COOPER TR7746 OR EQUAL DUPLEX PLUS USB CHARGER        | o      | OCCUPANCY SENSOR SWITCH  | ⊕      | FIRE ALARM HORN CEILING MOUNTED (LF = LOW FREQUENCY)        |
| ⊕      | TAMPER RESISTANT                                      | lv     | LOW VOLTAGE CONTROL SWITCH   | ⊕      | FIRE ALARM HORN CEILING MOUNTED (LF = LOW FREQUENCY)        |
| ⊕      | QUAD RECEPTACLE OUTLET                                | lv/d   | LOW VOLTAGE CONTROL SWITCH WITH DIMMER   | ⊕      | FIRE ALARM HORN CEILING MOUNTED (LF = LOW FREQUENCY)        |
| ⊕      | SPLIT WIRED DUPLEX RECEPTACLE OUTLET                  | o/d    | OCCUPANCY SENSOR CONTROL SWITCH WITH DIMMER  | ⊕      | FIRE ALARM HORN CEILING MOUNTED (LF = LOW FREQUENCY)        |
| ⊕      | 220V RECEPTACLE OUTLET                                | o/d/2  | DUAL RELAY OCCUPANCY SENSOR CONTROL SWITCH   | ⊕      | FIRE ALARM HORN CEILING MOUNTED (LF = LOW FREQUENCY)        |
| ⊕      | ISOLATED GROUND RECEPTACLE                            | ⊕      | DOUBLE GANG SWITCH   | ⊕      | SMOKE DETECTOR (SUBSCRIPT AS INDICATED BELOW)               |
| ⊕      | RECEPTACLE FLOOR DEVICE                               | ⊕      | LOW VOLTAGE MULTI BUTTON CONTROL SWITCH (LETTER INDICATES CONTROL OF CORRESPONDING FIXTURES) | ⊕      | SMOKE ALARM BATTERY-BACKED                                  |
| ⊕      | CEILING MOUNTED DEVICE                                | ⊕      | CONTROLLING SWITCH (LETTER INDICATES CONTROL OF CORRESPONDING FIXTURES)                      | ⊕      | SMOKE/CARBON MONOXIDE ALARM COMBO BATTERY-BACKED            |
| ⊕      | SPECIAL RECEPTACLE                                    | ⊕      | OCCUPANCY SENSOR (CEILING MOUNTED)   | ⊕      | DUCT SMOKE DETECTOR   |
| ⊕      | MOTOR OUTLET  | ⊕      | DUAL TECHNOLOGY OCCUPANCY SENSOR (CEILING MOUNTED)   | ⊕      | SMOKE DETECTOR WITH ADDRESSABLE RELAY                       |
| ⊕      | EXHAUST FAN   | ⊕      | ROOM CONTROLLER  | ⊕      | SMOKE DETECTOR WITH SOUNDER BASE                            |
| ⊕      | THERMOSTAT OUTLET                                     | ⊕      | DAYLIGHT SENSOR  | ⊕      | HEAT DETECTOR   |
| ⊕      | REMOTE SENSOR OUTLET                                  | ⊕      | PHOTOCELL  | ⊕      | GAS DETECTOR  |
| ⊕      | TELEPHONE OUTLET                                      | ⊕      | VOLUME CONTROL   | ⊕      | CARBON MONOXIDE DETECTOR                                    |
| ⊕      | COMPUTER DATA OUTLET (#) INDICATES JACK QUANTITIES    | ⊕      | WALL SPEAKER   | ⊕      | CARBON MONOXIDE/NITROGEN DIOXIDE SENSOR (GARAGE)            |
| ⊕      | NETWORK AND VOICE OUTLET                              | ⊕      | CEILING SPEAKER  | ⊕      | ADA TWO-WAY COMMUNICATIONS SYSTEM                           |
| ⊕      | WIRELESS ACCESS POINT CEILING MOUNTED                 | ⊕      | SURVEILLANCE CAMERA  | ⊕      | DOOR ACCESS CONTROL KEY PAD                                 |
| ⊕      | TELEVISION OUTLET                                     | ⊕      | SURVEILLANCE DIGITAL VIDEO RECORDER  | ⊕      | DOOR ACCESS CONTROL CARD READER                             |
|        |   | ⊕      | NURSE CALL ANNUNCIATOR PANEL   | ⊕      | DOOR ACCESS CONTROL DOOR STRIKE                             |
|        |   | ⊕      | NURSE CALL EMERGENCY CALL DEVICE   | ⊕      | DOOR ACCESS CONTROL MAG LOCK                                |
|        |   | ⊕      | NURSE CALL EMERGENCY CALL LIGHT  | ⊕      | DOOR ACCESS CONTROL DOOR SENSOR                             |
|        |   | ⊕      |  | ⊕      | DOOR ACCESS CONTROL REQUEST TO EXIT                         |
|        |   | ⊕      |  | ⊕      | PUSHBUTTON  |
|        |   | ⊕      |  | ⊕      | BELL  |

**ABBREVIATIONS INDEX**

|      |   |       |                                  |      |                                      |         |                              |
|------|---|-------|----------------------------------|------|--------------------------------------|---------|------------------------------|
| #    | NUMBER                                    | DISP  | DISPOSAL                         | MATV | MASTER ANTENNA TELEVISION            | (R)     | RELOCATE                     |
| φ    | PHASE                                     | DRY   | DRYER                            | MAX  | MAXIMUM                              | RECP    | RECEPTACLE                   |
| 1φ   | SINGLE PHASE                              | DW    | DISHWASHER                       | MB   | MAIN BUS                             | REF     | REFRIGERATOR                 |
| 2P   | TWO-POLE                                  | DWG   | DRAWING                          | MCB  | MAIN CIRCUIT BREAKER                 | REQ     | REQUIRED                     |
| 3φ   | THREE PHASE                               | EC    | EMPTY CONDUIT                    | MCC  | MOTOR CONTROL CENTER                 | RLA     | RATED LOAD AMPS              |
| 4P   | FOUR-POLE                                 | EM    | EMERGENCY                        | MCM  | 1000 CIRCULAR MILLS                  | RMS     | ROOT MEAN SQUARE             |
| AC   | ALTERNATING CURRENT                       | EMG   | EMERGENCY GENERATOR              | MH   | MANHOLE                              | SE      | SERVICE ENTRANCE             |
| AFB  | ABOVE FINISHED FLOOR                      | EMT   | ELECTRICAL METALLIC TUBING       | MIC  | MICROPHONE                           | SPD     | SURGE PROTECTION DEVICE      |
| AFG  | ABOVE FINISHED GRADE                      | EPO   | EMERGENCY POWER OFF              | MIN  | MINIMUM                              | SPEC    | SPECIFICATION                |
| AFP  | ARC FAULT PROTECTOR                       | EWC   | ELECTRIC WATER COOLER            | MLO  | MAIN LUGS ONLY                       | SPK     | SPEAKER                      |
| AIC  | AMP INTERRUPTING CURRENT (SYMMETRICAL)    | EWH   | ELECTRIC WATER HEATER            | MNF  | MANUFACTURER                         | SS      | SELECTOR SWITCH              |
| AL   | ALUMINUM                                  | EX    | EXISTING                         | MTG  | MOUNTING                             | SW      | SWITCH                       |
| AM   | AMPS METER                                | (F)   | FUTURE                           | MTR  | MOTOR                                | SWBD    | SWITCHBOARD                  |
| AMP  | AMPERE                                    | FA    | FIRE ALARM                       | MW   | MICROWAVE                            | SWGR    | SWITCHGEAR                   |
| ANN  | ANNUNCIATOR                               | FACP  | FIRE ALARM CONTROL PANEL         | (N)  | NEW                                  | TTB     | TELEPHONE TERMINAL BOARD     |
| ATS  | AUTOMATIC TRANSFER SWITCH                 | FC    | FOOT CANDELA                     | N/A  | NOT APPLICABLE                       | TBC     | TELEPHONE TERMINAL CABINET   |
| AUX  | AUXILIARY                                 | FLA   | FULL LOAD AMPS                   | NC   | NORMALLY CLOSED                      | TV      | TELEVISION                   |
| AWG  | AMERICAN-WIRE GAUGE                       | FT    | FOOT                             | NEC  | NATIONAL ELECTRICAL CODE             | TYP     | TYPICAL                      |
| BC   | BARE COPPER                               | FRZ   | FREEZER                          | NEMA | NATIONAL MANUFACTURING ASSOCIATION   | UG      | UNDERGROUND                  |
| BFG  | BELOW FINISH GRADE                        | FS    | FUSED SWITCH                     | NFC  | NATIONAL FIRE CODE                   | UNO     | UNLESS NOTED OTHERWISE       |
| C    | CONDUIT                                   | GFCI  | GROUND FAULT CIRCUIT INTERRUPTER | NFPA | NATIONAL FIRE PROTECTION ASSOCIATION | UPS     | UNINTERRUPTIBLE POWER SUPPLY |
| CAB  | CABINET                                   | GFP   | GROUND FAULT PROTECTOR           | NFPA | NATIONAL FIRE PROTECTION ASSOCIATION | V       | VOLT (KV-KILOVOLT)           |
| CATB | COMMUNITY ANTENNA TELEVISION              | GRC   | GALVANIZED RIGID CONDUIT         | NIC  | NOT IN CONTRACT                      | VA/R    | VOLT-AMPS/REACTIVE           |
| CATV | CABLE TELEVISION                          | GRD   | GROUND                           | NL   | NIGHT LIGHT                          | VM      | VOLT METER                   |
| CFCI | CONTRACTOR FURNISHED CONTRACTOR INSTALLED | HP    | HORSE POWER                      | NO   | NORMALLY OPEN                        | W       | WATTS                        |
| CKT  | CIRCUIT                                   | HZ    | HERTZ                            | NTS  | NOT TO SCALE                         | W/      | WITH                         |
| CLG  | CEILING                                   | IG    | ISOLATED GROUND                  | OFCI | OWNER FURNISHED CONTRACTOR INSTALLED | WASH    | WASHER                       |
| CNTR | CONTRACTOR                                | IMC   | INTERMEDIATE METALLIC CONDUIT    | OFOI | OWNER FURNISHED OWNER INSTALLED      | WH      | WATHOUR                      |
| CO   | CONDUIT ONLY                              | IN    | INCH                             | OS&Y | OUTSIDE SCREW AND YOKE               | W/O     | WITHOUT                      |
| CRT  | COMPUTER TERMINAL                         | J-BOX | JUNCTION BOX                     | PB   | PUSH BUTTON                          | WP      | WEATHER PROOF                |
| CT   | CURRENT TRANSFORMER                       | KV    | KILOVOLT                         | PF   | POWER FACTOR                         | XFMR    | TRANSFORMER                  |
| CU   | COPPER                                    | KVA   | KILOVOLT AMPERES                 | PFR  | PHASE FAILURE RELAY                  | XFMR-SW | TRANSFORMER SWITCH           |
| C/W  | CONDUIT WITH                              | KVAR  | KILOVARS                         | PNL  | PANEL                                | XP      | EXPLOSION PROOF              |
| (D)  | DEMOLISH/DELETE                           | KW    | KILOWATT                         | PT   | POTENTIAL TRANSFORMER                |         |                              |
| DB   | DECIBEL                                   | LRA   | LOCKED ROTOR AMPS                | PV   | PHOTOVOLTAC                          |         |                              |
| DC   | DIRECT CURRENT                            | LTG   | LIGHTING                         | PVC  | POLYVINYL CHLORIDE CONDUIT           |         |                              |

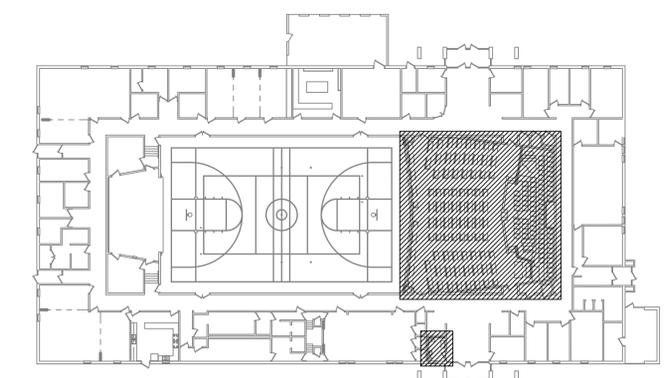
NOTE: THIS IS A TYPICAL ABBREVIATION LIST. NOT ALL ABBREVIATIONS MAY BE USED ON THIS PROJECT.



**ELECTRICAL DEMOLITION PLAN**  
SCALE: 1/8" = 1'-0"

**ELECTRICAL PLAN**  
SCALE: 1/8" = 1'-0"

- KEYED NOTES:**
- 1 REMOVE AND RETAIN FIXTURE FOR RE-INSTALLATION. MAINTAIN EXISTING CONDUIT AND WIRE. ELECTRICAL CONTRACTOR TO CLEAN AND RE-LAMP FIXTURE WITH TWO NEW LAMPS. UPGRADE FIXTURE TO T-8 TYPE LAMPS. UPGRADE TO EMERGENCY ELECTRONIC BALLAST.
  - 2 REMOVE SINGLE POLE SWITCH (DEVICE) AND COVERPLATE. MAINTAIN EXISTING CONDUIT AND WIRE.
  - 3 REMOVE DUPLEX RECEPTACLE (DEVICE) AND COVERPLATE. MAINTAIN EXISTING CONDUIT AND WIRE.
  - 4 TWO LAMP SURFACE MOUNTED FIXTURE TO REMAIN. ELECTRICAL CONTRACTOR SHALL CLEAN THE FIXTURE AND REPLACE THE LAMPS WITH 4100K LAMPS. UPGRADE FIXTURE TO F32/T8 TYPE LAMPS.
  - 5 OMITTED
  - 6 RELAMP RECESSED DOWNLIGHT WITH 150 WATT PAR 38 FLOOD 3000K LED REPLACEMENT LAMP. SATCO #18PAR38/LED/40/3000K/120V/D OR EQUAL. PROVIDE LAMP EXTENDERS.
  - 7 RELAMP RECESSED FLOODLIGHT WITH 150 WATT PAR 38 SPOT 3000K LED REPLACEMENT LAMP. SATCO #18PAR38/LED/40/3000K/120V/D OR EQUAL.
  - 8 NEW LED PENDANT CHANDELIER. FIELD VERIFY LOCATION WITH FACILITIES MANAGER PRIOR TO ROUGH-IN. FACILITIES MANAGER CONTACT INFORMATION: JOE GLEDHILL, 801.840.8451 OFFICE AND 801.793.3659 MOBILE.
  - 9 EXISTING PANELBOARD.
  - 10 NEW FLUSH MOUNTED SWITCHES MOUNTED AT HEIGHT AS DIRECTED BY THE FACILITIES MANAGER.
  - 11 REFER TO THE REFLECTED CEILING PLAN ON SHEET A101.
  - 12 EXISTING WHITE NOISE SPEAKER TO REMAIN. ELECTRICAL CONTRACTOR TO PROVIDE A RELAY TO ACTIVATE THE WHITE NOISE SPEAKER WITH THE OCCUPANCY WALL SWITCH.
  - 13 NEW GFCI DUPLEX RECEPTACLE AND COVERPLATE.



KEY PLAN

| # | DATE | DESCRIPTION |
|---|------|-------------|
|   |      |             |
|   |      |             |
|   |      |             |

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PROJECT FOR:  
**THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS**

PROJECT NAME:  
**Roxborough Park, Harvestland, & Taylorsville UT North Central Stake**  
 3120 West 4700 South  
 Taylorsville, Utah  
 BID/PROJECT #: 1725  
 DATE: 15 May 2017  
 PLAN SERIES: Cody (CO-7P-008)  
 PROPERTY #: 518-8636

SHEET TITLE:  
**ELECTRICAL PLANS**

SHEET:  
**E101**

