FINANCE BUILDING TI
SOUTH CENTRAL FOUNDATION
7033 EAST TUDOR RD. ANCHORAGE ,AK

CONSTRUCTION DOCUMENTS

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DESCRIPTION OF WORK

1) COORDINATE WORK OF ALL TRADES TO MINIMIZED DAMAGE AND DISRUPTION TO THE EXISTING FACILITY REPAIR OR REPLACE ITEMS DAMAGED DURING CONSTRUCTION.
2) PATCH AND PAINT ALL INTERIOR SURFACES DAMAGED.
3) DRAWING ARE APPROPRIATE, VERIFY CRITICAL DIMENSIONS.
4) EXISTING - LENNOX COMPLETELY DOWNTOWN AND REMOVE.
5) NIC = NOT IN CONTRACT.
**LEGEND**

<table>
<thead>
<tr>
<th>WALL TAG SYMBOL</th>
<th>WALL TAG ALPHABETIC CODE</th>
<th>STUD HOLE SIZE</th>
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<td>A4S</td>
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**GENERAL NOTES**

1. All wall framing and oversized continue to bottom of floor (truss) above unless otherwise noted.
2. All dimensions are to face of stud or concrete unless otherwise noted. Dimensioning points may vary from wall member and not to the scale of any furring shown on the wall type.
3. Finish materials, such as ceramic tile, wall coverings, etc., are not typically shown as an integral part of this assembly. Refer to finish schedules and interior elevations for additional finish requirements.
4. Gypsum board = 5/8" Type "X" - typical unless otherwise noted.

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**HORIZONTAL ASSEMBLIES (SECTION VIEW)**

1. **ACOUSTICAL CEILING SYSTEM**
2. **GYPSUM BOARD CEILING**

**VERTICAL ASSEMBLY TYPES**

**INTERIOR PARTITION**

- **A** 2.5" sound batt face insulation, nailing from subfloor
- **B** 3/4" type X OSB one side finish as scheduled
- **C** Metal stud framing at 16" on C.C., cut at STUD size
- **D** 20 gauge steel stud framing at 16" on C.C., TASI indicated stud size
- **E** Remodel exterior wall
- **F** Furring exist. wall

**NEW EXTERIOR WALL**

- **D** 2 coats cement plaster over felt weather barrier, match adhered to stud
- **3/4" type X OSB both sides finish as scheduled
- **C** 2" x 4" stud
- **B** 2.5" sound batt face insulation, nailing from subfloor

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**REQUIREMENTS**

2 1/2" thick fiberglass installation
Install full sound insulation

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**STUD TYPE**

- 2 2 1/2" Z metal suspension system supported from structure above
- 3 suspended grid system
- Acoustical, say by furring, refer to schedule
- Ceiling framing & mockup, refer to schedule details
- Dove finish as scheduled

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**EXISTING WALL**

- Existing wall
- 2 10" thick fiberglass sound insulation
- 5/8" OSB

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**SUSPENDED GRID SYSTEM**

- 20 gauge 1/2" to 1/4" metal furring at 16" on C.C.
- 3 screws into sole clamping at 30" maximum

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**FINISH BUILDING TYPE**

- No. 3534-A
- DRAWN BY: John E. McCool

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**EXISTING WALL FRAMING AND GWB CONTINUE TO BOTTOM OF FLOOR / TRUSS ABOVE UNLESS OTHERWISE NOTED**
GENERAL NOTES
1. THE INFORMATION SHOWN IN THIS DRAWING IS TAKEN FROM AS-BUILT DRAWINGS AND WORKED UP OF THE EXISTING
2. FACILITY. THE CONTRACTOR SHALL VERIFY ALL ITEMS, AREAS, AND ASSEMBLIES SHOWN FOR DEMOLITION FROM TO
3. START OF WORK.
4. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, AND
5. CIVIL SHEETS FOR RELATED DEMOLITION INFORMATION.
6. THE USER AGENCY SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIAL. THE CONTRACTOR SHALL
7. DELIVER SALVAGED MATERIALS TO AN AREA AS DIRECTED BY
8. THE USER AGENCY.

DEMOLISH TOILET DOOR AND PARTITIONS; MOVE OFFSITE BY OWNER

DEMOLISH PLUMBING FIXTURES AND COUNTER TOP

REMOVE AND RELOCATE DOOR AND FRAMES

LEGEND

- SHEET NOTE
- EXISTING METAL WALL
- DEMO METAL STUD WALL
- EXISTING DOOR AND FRAMES / EXISTING WORK TO REMAIN
- DEMO DOOR AND FRAMES / TO BE DEMOLISH
CIVIL SHEETS FOR RELATED DEMOLITION INFORMATION

GENERAL NOTES
1. THE INFORMATION SHOWN IN THIS DRAWING IS TAKEN FROM AN AS BUILT DEMOLITION INFORMATION SHEET. THE CONTRACTOR SHALL REMOVE ALL STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS INCLUDING WATER, SEWER, AND PIPING. REMOVE ALL RENOVATION, MASONRY, AND CONCRETE. REMOVE ALL FURNITURE, FIXTURES, AND APPLIANCES. REMOVE ALLメーカー ASSEMBLIES FOR DEMOLITION PRIOR TO START OF WORK.

2. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, AND CIVIL SHEETS FOR RELATED DEMOLITION INFORMATION.

3. THE USER AGENCY SHALL MAKE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIAL. THE CONTRACTOR SHALL DISCARD SALVAGED MATERIALS TO AN AREA AS DIRECTED BY THE USER AGENCY.

DEMO + DEMOLISH - REMOVE FROM SITE

SHEET NOTES
- EXISTING GYPSUM CEILINGS - TO REMAIN
- EXISTING TITLE CEILINGS - TO REMAIN
- AREA OF CEILING DEMOLISH SHOWN WATCH REFER TO ELECTRICAL AND MECHANICAL.
- EXPOSED STRUCTURE
- PROVIDE TEMPORARY SUPPORT AND REPLACE REMOVAL OF EXISTING CEILINGS FOR REMODEL
- REMOVE AND REPLACE ALL EXISTING ACOUSTICAL CEILING TILES

LEGEND
- SHEET NOTE
- INDICATES HEIGHT FROM FINISH FLOOR
- GYPSUM WALL BOARD
- SUSPENDED ACOUSTICAL CEILING SYSTEM
- AREA TO BE DEMOLISH
- AREA SURROUNDING REMOVAL IS DEMOLISH BY ELECTRICAL & MECHANICAL CONTRACTOR

EXISTING / DEMO DECK CEILING PLAN - LEVEL 2

EXISTING DEMO RESTROOM CEILING PLAN - LEVEL 2
CERAMIC BULLNOSE TILE; REFER TO SOLID BLOCKING SCHEDULE TYP.

OWNER APPROVAL

6" SOLID SURFACE 2 X 3" STEEL ANGLE

REFER MECHANICAL; WRAP TILE FLOORING EXISTING FLOOR

SOUTH CENTRAL FOUNDATION

09-23-2015

F09-23-2015
ROOM FINISH SCHEDULE

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<th>NAME</th>
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<th>EAST</th>
<th>SOUTH</th>
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ROOM SPECIFIC REMARKS

1. PROVIDE FLOOR LEVELING AS REQUIRED TO MEET FLOOR MANUFACTURER INSTALLATION REQUIREMENTS
2. PATCH GWB CEILING WHERE EXPOSED
3. USER AGENCY TO SELECT ALL COLORS - MATCH NEON BUILDING FOR RESTROOM
4. PAINT WALL WHERE EXPOSED
5. REMOVE EXISTING SUSPENDED CEILING LAMINATE PANELS AND REPLACE NEW WITH ARMSTRONG
6. REFER TO PLANS FOR WALL TYPES
7. MATCH EXISTING ADJACENT CARPET

FINISH SCHEDULE ABBREVIATIONS

- CB: Cove Base 6" High unless scheduled otherwise
- CT: Ceramic Tie
- CONC: Concrete
- GWB: Gypsum Wall Board
- EX: Existing Construction
- FF: Factory Finish
- N: None / Not Applicable
- P: Paint
- PC: Porcelain Ceramic Tile
- RB: Resilient Cove Base 6" High unless scheduled otherwise
- SAC: Suspended Acoustical Ceiling
- WD: Wood

DOOR SCHEDULE - LEVEL 2

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<th>HEIGHT</th>
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<th>DOOR MATERIAL</th>
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DOOR ABBREVIATIONS

- ST: Steel
- (1): See Notes
- (2): Doors
- (E): Existing

DOOR NOTE

1. DOOR FRAME AND HARDWARE - MATCH EXISTING
2. RELOCATE EXISTING DOOR, FRAME, AND HARDWARE

ROOM FINISH SCHEDULE

1. INTERIOR DOOR HEAD (JAMB SIM)
2. FLUSH DOOR
3. EXTERIOR WINDOW AT CONFERENCE OFFICE

Financial Building
7033 East Tudor Rd.
Anchorage, AK
### Mechanical and Electrical Consulting Engineers

**MECHANICAL SCHEDULES**

**SCF FINANCE BUILDING TI**

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**WATER COOLERS SCHEDULE**

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**FIN TUBE RADIATION SCHEDULE**

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<th>DEG F</th>
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<td>1</td>
<td>C3/4-35</td>
<td>AL FIN, 3/4CU ALUMINUM</td>
<td>50 PER PLANS</td>
<td>180</td>
<td>160</td>
<td>810</td>
<td>14&quot; SLOPED TOP ENCLOSURE</td>
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**FAN SCHEDULE**

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**SINGLE DUCT TERMINAL UNIT SCHEDULE**

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**AIR INLET/OUTLET SCHEDULE**

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**PLUMBING FIXTURE SCHEDULE**

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SPECIFICATIONS

PLANS - THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR A COMPLETE AND ORGANIZED SYSTEM. THE DRAWINGS ARE PARTS OF A COMPLETE CONTRACT. IT IS NOT NECESSARY TO CHECK ALL OFFSETS OR EXACT LOCATIONS OF PIPING AND DUCTS UNLESS SPECIFIC DIMENSIONS ARE SHOWN ON THE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE CORRECT AND COMPLETE INFORMATION WITHIN THE DRAWINGS AND SPECIFICATIONS.

MANUFACTURERS' INSTRUCTIONS OR STANDARDS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONCERNING THE DRAWINGS AND SPECIFICATIONS.

PERMITS - THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND FEES.

CODE - ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE AND AS CODE ONE. THE CONTRACTOR SHALL PROVIDE A SUBMITTED COPY OF THE CODE TO THE CONTRACTOR.

EQUIPMENT SUBSTITUTIONS - ALL EQUIPMENT LISTED IS RECOMMENDED AS A STANDARDS OF QUALITY AND PERFORMANCE REQUIREMENTS. EQUIPMENT SUBSTITUTIONS SHOULD BE CONSIDERED IF THE SUBSTITUTE EQUIPMENT MEETS THE SAME OR EQUAL QUALITY, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- PERFORMANCE, SIZE AND WEIGHT.
- WARM-UP - ALL WORK PERFORMED UNDER THIS CONTRACT IS FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP, AND ALL WORK IS FREE FROM DEFECTS OF ONE KIND OR ANOTHER. MATERIALS AND WORKMANSHIP SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE INSPECTOR DURING THE GUARANTEE PERIOD.

ELECTRICAL WORK - ALL ELECTRICAL WORK IS TO BE PERFORMED BY A LICENSED ELECTRICIAN. IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AS AMENDED BY THE MUNICIPALITY OF ANCHORAGE. EFFECTIVE METAL (OR REINFORCED CONCRETE) ECP PANEL.

SEWAGE RECEPT-- ALL PIPING, DUCTWORK AND EQUIPMENT INSTALLED UNDER THIS PROJECT SHALL BE SEWAGE RESISTANT AND BEST RATED FOR SEWER INSTALLATION IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AND AS CODE ONE. THE CONTRACTOR SHALL PROVIDE A NOTIFIED SUBMITTAL TO THE BUILDING REVIEW DEPARTMENT FOR SEWAGE RESISTANT DRAINAGE SYSTEM.

AIR CONDITIONING - SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS OR STANDARDS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONCERNING THE DRAWINGS AND SPECIFICATIONS.

CONTROLS - PROVIDE DISTECH BACNET DIRECT DIGITAL CONTROL SYSTEM TO ACCOMPLISH THE SPACE TEMPERATURE, ACTUATING VALVES, CONTROLS - PROVIDE WORKABLE ACCESS TO ALL SERVICEABLE AND/OR OPERABLE DUCTWORK. PROVIDE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS OR STANDARDS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONCERNING THE DRAWINGS AND SPECIFICATIONS.

RECORD DRAWINGS - PROVIDE ACCURATE PROJECT RECORD DRAWINGS, SHOWN IN RED INK ON PRINTS, SHOWING ALL CHANGES FROM THE ORIGINAL PLANS DURING INSTALLATION OF THE WORK.

CONTROL SYSTEMS - PROVIDE DISTECH BACNET DIRECT DIGITAL CONTROL SYSTEM TO ACCOMPLISH THE SEQUENCE OF OPERATIONS. SYSTEMS SHALL COMPLIANCE WITH THE REQUIREMENTS OF THE CODE AND AS CODE ONE. THE CONTRACTOR SHALL PROVIDE A SUBMITTED COPY OF THE CODE TO THE CONTRACTOR.

LEAK DETECTION SYSTEMS - SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS OR STANDARDS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONCERNING THE DRAWINGS AND SPECIFICATIONS.

CONTRACTOR TRAINING - SHALL PROVIDE THE CONTRACTORS FOR THE OPERATION, CARE AND MAINTENANCE OF ALL SYSTEMS AND EQUIPMENT PROVIDED. PROVIDE A MINIMUM OF TWO HOURS OF ON-SITE INSTRUCTION TO THE OWNER'S DESIGNATED PERSONAL.

PIPING INSULATION - INSTALL ALL HEATING WATERS PIPING WITH FIRE-FORESTED RIBBED ASPHALT INSULATION COMPLETE WITH FACTORY VARNISH BARRIER AND INSULATION COVERS FOR FITTING. INSTALL ALL DOMESTIC HOT AND COLD WATER PIPING SIZE 1" AND LARGER WITH 1 1/2" INSULATION, COMPLETE WITH VARNISH BARRIER JACKET AND INSULATION COVERS FOR FITTING. INSTALL ALL DOMESTIC HOT AND COLD WATER PIPING SIZE 3/4" AND SMALLER WITH 1/2" INSULATION.

DOMESTIC WATER PIPING - COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN, INSULATION: ASTM B16.22, B290 COPPER COPPER, ASTMB 16.2, B247 COPPER, WATER STOP SOLUBLE FLUID OR INCA, RED LACquer ON INCA, PRECISION-MADE TURNING VANES OF PERFORATED METAL WITH GLASS FIBER INSULATION. WELD IN PLACE. TRANSFORM DUCT SIZES TO THE STANDARD 45 DEGREE LATERAL WYE

3. ELBOWS WITH RADIUS OF NOT LESS THAN 1-½ TIMES WIDTH OF DUCT ON CENTERLINE. WHERE NOT POSSIBLE AND WHERE APPROPRIATE, USE BENDERS FOR NON-ANGLE VALVES OR EXACT LOCATIONS OF PIPING AND DUCTS UNLESS SPECIFICALLY DIMENSIONED. CONTRACTOR SHALL PROVIDE A VIEW BY PIPE MARKERS OR LABELED SLEEVE IN LETTERS READABLE FROM FLOOR AT LEAST ONCE IN EACH MINIMUM POSITION. MODULATE THE TWO WAY CONTROL VALVE ON THE SCHEMATICS IDENTIFYING ALL POWER AND CONTROL WIRING.

3. STRAINERS: SCREWED BRASS OR IRON BODY FOR 115 CFM WasshING INSTRUMENTATION. PROVIDE A SEQUENCE OF OPERATIONS: METHOD. PRIOR TO DEMOLITION WORK, MEASURE AIRFLOW RATE AT SECOND FLOOR DUCT. AFTER TEST AND STARTUP - TEST ALL PLUMBING AND PIPING SYSTEMS IN ACCORDANCE WITH THE UNIFORM CONSTRUCTION DOCUMENTS.

8. WELDED SOCKET TYPE" 2" AND LARGER CORZAN CPVC: ASTM F441, NSF LISTED, SCHEDULE 80, FITTINGS: ASTM F439 STEEL PERFORATED SCREEN.

9. AIRFLOW ARE TO BE BALANCED TO WITHIN 10% OF INDICATED FLOW RATES, PER AABC RECOMMENDED METHODOLOGY. MEASURE AND RECORD INITIAL SETTINGS AND OPERATING SETPOINTS IN O&M MANUALS. PROVIDE TAMPRESSURE VALVES AND ACREIFICATION IDENTIFICATION - IDENTIFY PIPING TO INDICATE CONTENTS AND FLOW DIRECTION OF EACH PIPE EXPOSED TO SELECTED FOR SERVICE AND FLOW OF SYSTEM SERVED. A PRESSURE DROP OF 3 PSI SHALL BE USED AS A SIZING CRITERIA.

UNITED TERRACE AND SHOP DRAWINGS. SEISMIC RESTRAINT CALCULATIONS AND SHOP DRAWINGS SHALL INCLUDE A SCHEMATICS IDENTIFYING ALL POWER AND CONTROL WIRING.

6. SPACE TEMPERATURE INDICATION (DOWNSTREAM OF BOX).

7. PLAN - SHALL INCLUDE PRODUCT DATA, MANUFACTURER'S PIPE SIZING CALCULATIONS AND ELECTRICAL GUARANTEE PERIOD. SCF FINANCE BUILDING TI

5. NIGHT MODE: AIR VALVE WILL MOVE TO MINIMUM POSITION. FINTUBE PIPING SIZE 1" AND LARGER WITH 1" INSULATION, COMPLETE WITH VARNISH BARRIER JACKET AND INSULATION COVERS FOR FITTING. INSTALL ALL DOMESTIC HOT AND COLD WATER PIPING SIZE 3/4" AND SMALLER WITH 1/2" INSULATION.

TEXTURE HIGH QUALITY INDICATION. 10. GRADUALLY, NOT EXCEEDING 15º DIVERGENCE AND 30º CONVERGENCE. PROVIDE STANDARD 45 DEGREE LATERAL WYE

4. MECHANICAL EQUIPMENT SUBMITTALS CONTAINING A COMPLETE LISTING OF MATERIAL AND EQUIPMENT SHOWN ON THE DRAWINGS. PROVIDE LEGIBLE DIMENSIONS AND PERFORMANCE DATA FOR ALL MATERIAL AND EQUIPMENT. VF SYSTEMS SUBMITTAL SHOWN ON THE DRAWINGS. SUPPLEMENTARY DATA IS NOT NECESSARY.

3. DIMENSIONS AND PERFORMANCE DATA FOR ALL MATERIAL AND EQUIPMENT. VRF SYSTEM SUBMITTAL SHOWN ON THE DRAWINGS. SUPPLEMENTARY DATA IS NOT NECESSARY.

2. STRAINERS: SCREWED BRASS OR IRON BODY FOR 175 CFM WASHING INSTRUMENTATION. PROVIDE A SEQUENCE OF OPERATIONS: METHOD. PRIOR TO DEMOLITION WORK, MEASURE AIRFLOW RATE AT SECOND FLOOR DUCT. AFTER TEST AND STARTUP - TEST ALL PLUMBING AND PIPING SYSTEMS IN ACCORDANCE WITH THE UNIFORM CONSTRUCTION DOCUMENTS.

1. VAV HEAING COIL POSITION INDICATION (PERCENT OF SIGNAL)
LEVEL 1 MECHANICAL DEMOLITION PLAN

DEMO HGR UP TO SECOND FLOOR PARED TUBE.
SEE REMODEL PLANS FOR NEW HGR CONNECTION.

ALTERNATE #1: REMOVE EXISTING BATHROOM FIXTURES FOR ARCHITECTURAL WORK. REPLACE FIXTURES AND RECONNECT TO EXISTING PLUMBING. PROVIDE NEW ANGLE STOPS, FLEXIBLE PIPING AND ESCUTCHEONS.

DEMOLISH WASTE PIPING TO EXTENT SHOWN. 4" WASTE DROP IN PLUMBING WALL TO REMAIN.

LEVEL 1 MECHANICAL DEMOLITION PLAN
LEVEL 2 MECHANICAL DEMOLITION PLAN

SHEET NOTES:

- DEMOLISH EXISTING BATHROOM FIXTURES, HOT WATER, COLD WATER, WASTE, AND VENT PIPING ASSOCIATED WITH EXISTING 2ND FLOOR BATHROOM GROUP. CW/HW MAINS FROM 1ST FLOOR BELOW TO REMAIN. SEE REMODEL PLANS FOR NEW CONNECTION POINTS.
- DEMOLISH EXISTING 1-1/2" VENT PIPING SERVING FIRST FLOOR TO REMAIN. SEE REMODEL PLANS FOR NEW CONNECTION POINTS.
- DEMOLISH EXISTING FINSSED TUBE. SEE REMODEL PLANS FOR NEW.
- DEMOLISH EXISTING GRILLE, DUCTWORK, ROOF MOUNTED EXHAUST FAN AND ROOF CURBS. SEE REMODEL PLANS FOR NEW ROOF MOUNTED EXHAUST FAN.
- DEMOLISH EXISTING GRILLE, DUCTWORK, AND ROOF MOUNTED EXHAUST FAN. SEE REMODEL PLANS FOR NEW ROOF MOUNTED EXHAUST FAN.
- DEMOLISH EXISTING FLOOR DRAIN. SEE REMODEL PLANS FOR NEW.

CAP AND SEAL EXISTING FLOOR DRAIN BLOWH FLOOR.

1/8" = 1'-0"
LEVEL 1 ABOVE FLOOR PLUMBING PLAN

GENERAL NOTES:
A. ALL PIPING SHOWN ON THIS PLAN IS LOCATED IN LEVEL 1 CEILING.
LEVEL 2 ENLARGED PLUMBING PLAN

1/4" = 1'-0"

SHEET NOTES:

1/2" CW DN TO TRAP PRIMER. FOR DETAIL SEE - 1/M401.

PROVIDE ISOLATION VALVES AND ACCESS DOOR ON HW/CW PIPE RISERS

LEVEL 2 KEY PLAN

NOT TO SCALE
LOAD REMOVED
EXISTING SERVICE 400A, 277/480V, 3-PHASE, 4-WIRE
DATE: 9/24/2015
LOAD BASED ON RECORD DRAWINGS 8/7/91 42.3 KW 117.5 AMPS
NEW LOAD ADDED
NET LOAD ADDED 1.9 KVA
NEW LOAD ADDED
NET LOAD ADDED -0.5 KVA
NEW LOAD ADDED
NET LOAD ADDED 1.1 KVA
LOAD REMOVED
EXISTING PANEL 'P2A' 100A, 120/208V, 3-PHASE, 4-WIRE
125% OF PEAK DEMAND LOAD (NEC 220.87) 92.12 KVA 110.9 AMPS
NONE 0.00 KVA
NET CALCULATED LOAD 44.4 KVA
EF-2,3 1.06 KVA
RECEPTACLES 1.26 KVA
RECEPTACLES 0.18 KVA
LIGHTING 0.53 KVA
LOAD REMOVED
EXISTING PANEL 'P2' 150A, 120/208V, 3-PHASE, 4-WIRE
ASSUME .85 PF 73.69 KVA
EXISTING PANEL 'P2' HAS ADEQUATE CAPACITY FOR NEW LOADS.
TOTAL LOAD ADDED 0.0 KVA
TOTAL LOAD REMOVED: 0.2 KVA
TOTAL LOAD ADDED 2.3 KVA
TOTAL LOAD REMOVED: 0.4 KVA
TOTAL LOAD ADDED 0.5 KVA
TOTAL LOAD REMOVED: 1.0 KVA
TOTAL LOAD ADDED 2.7 KVA
TOTAL LOAD REMOVED: 1.6 KVA

OVERALL LOAD IS REDUCED

**LIGHT FIXTURE SCHEDULE**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>LOCATION</th>
<th>MANUFACTURER</th>
<th>MODEL#</th>
<th>LUMINAIRE DESCRIPTION</th>
<th>TYPE</th>
<th>HEIGHT</th>
<th>BASE</th>
<th>WALL OR MOUNTED</th>
<th>TOTAL</th>
<th>WALL</th>
<th>DRIVER</th>
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</thead>
<tbody>
<tr>
<td>EMERGENCY</td>
<td>BATHROOM</td>
<td>LITHONIA</td>
<td>#LQM-S-W-3-G-120/277-ELN-SD</td>
<td>EMERGENCY EXIT SIGN, STENCIL FACE, WHITE HOUSING, WHITE LETTERING</td>
<td>EMERGENCY</td>
<td>1000LM</td>
<td>120/277</td>
<td>LED</td>
<td>0.5 W</td>
<td>0 W</td>
<td>DRIVER</td>
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<tr>
<td>EMERGENCY</td>
<td>BATHROOM</td>
<td>LITHONIA</td>
<td>#ELM2-LED-SD</td>
<td>EMERGENCY LIGHT, THERMOPLASTIC</td>
<td>EMERGENCY</td>
<td>1000LM</td>
<td>120/277</td>
<td>LED</td>
<td>0.5 W</td>
<td>0 W</td>
<td>DRIVER</td>
</tr>
<tr>
<td>UNIT</td>
<td>RESTROOMS</td>
<td>PRUDENTIAL</td>
<td>#WAL14-LED3-MO-2'-WFA-TMW-SC-UNV-WM-ND</td>
<td>SAME AS TYPE 'D' EXCEPT 2' NOMINAL WALL, 6'-6&quot; 3000K LED, 1540LM, 120/277V LED</td>
<td>UNIT</td>
<td>1000LM</td>
<td>120/277</td>
<td>LED</td>
<td>0.5 W</td>
<td>0 W</td>
<td>DRIVER</td>
</tr>
<tr>
<td>UNIT</td>
<td>RESTROOMS</td>
<td>PRUDENTIAL</td>
<td>#WAL14-LED3-MO-3'-WFA-TMW-SC-UNV-WM-ND</td>
<td>3' NOMINAL VANITY LIGHT, STEEL HOUSING, TRANSLUCENT LENS, 1000LM, 120/277V LED</td>
<td>UNIT</td>
<td>1000LM</td>
<td>120/277</td>
<td>LED</td>
<td>0.5 W</td>
<td>0 W</td>
<td>DRIVER</td>
</tr>
<tr>
<td>UNIT</td>
<td>RESTROOMS</td>
<td>GOTHAM</td>
<td>#EVO-30/10-6AR-WD-LSS-MVOLT</td>
<td>SAME AS TYPE 'B' EXCEPT 3000K COLOR AND WHITE HOUSING, GREEN LETTERING</td>
<td>UNIT</td>
<td>1000LM</td>
<td>120/277</td>
<td>LED</td>
<td>0.5 W</td>
<td>0 W</td>
<td>DRIVER</td>
</tr>
<tr>
<td>UNIT</td>
<td>CONFERENCE</td>
<td>GOTHAM</td>
<td>#EVO-40/15-6AR-WD-LSS-MVOLT</td>
<td>NOMINAL 6&quot;Ø DOWNLIGHT, STEEL HOUSING, TRANSLUCENT LENS, 1000LM, 120/277V LED</td>
<td>UNIT</td>
<td>1000LM</td>
<td>120/277</td>
<td>LED</td>
<td>0.5 W</td>
<td>0 W</td>
<td>DRIVER</td>
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<tr>
<td>UNIT</td>
<td>CONFERENCE</td>
<td>AXIS</td>
<td>#BBDLED-B3-MF-500-40-SO-8-AP-UNV-D-1</td>
<td>8' NOMINAL LINEAR DIRECT PENDANT, 1000LM, 120/277V LED</td>
<td>UNIT</td>
<td>1000LM</td>
<td>120/277</td>
<td>LED</td>
<td>0.5 W</td>
<td>0 W</td>
<td>DRIVER</td>
</tr>
<tr>
<td>UNIT</td>
<td>CONFERENCE</td>
<td>SAMSUNG</td>
<td>#SM400-LED-3W-W-WH-50W-40K-360-SP-LD</td>
<td>SUSPENDED 7'-6&quot; AFF, 4000K LED, 4000LM, 120/277V</td>
<td>UNIT</td>
<td>1000LM</td>
<td>120/277</td>
<td>LED</td>
<td>0.5 W</td>
<td>0 W</td>
<td>DRIVER</td>
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**SCHEDULE, AND LOAD CALC**
### EXISTING PANEL 'L'

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Location</th>
<th>Circuit Breaker</th>
<th>Volts</th>
<th>Phase</th>
<th>Amps</th>
<th>Type</th>
<th>Notes</th>
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<tbody>
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</table>

- **MFR/MODEL:** CUTLER-HAMMER
- **TYPE:** PH
- **VOLTS:** 277/480V, 3PH, 4W
- **ENCLOSURE:** NEMA 1
- **225 A**
- **VOLT-AMPS:**

### EXISTING PANEL 'P2'

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Location</th>
<th>Circuit Breaker</th>
<th>Volts</th>
<th>Phase</th>
<th>Amps</th>
<th>Type</th>
<th>Notes</th>
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</tbody>
</table>

- **MFR/MODEL:** CUTLER-HAMMER
- **TYPE:** PB
- **VOLTS:** 120/208V, 3PH, 4W
- **ENCLOSURE:** NEMA 1
- **150 A**
- **VOLT-AMPS:**

### EXISTING PANEL 'P2A'

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Location</th>
<th>Circuit Breaker</th>
<th>Volts</th>
<th>Phase</th>
<th>Amps</th>
<th>Type</th>
<th>Notes</th>
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</tr>
</tbody>
</table>

- **MFR/MODEL:** SQUARE 'D'
- **TYPE:** NQ
- **VOLTS:** 120/208V, 3PH, 4W
- **ENCLOSURE:** NEMA 1
- **100 A**
- **VOLT-AMPS:**

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### PARTIAL POWER ONE-LINE DIAGRAM

- **E002**
- **FINANCE BUILDING T1**
- **SOUTH CENTRAL FOUNDATION**
- **7033 EAST TUDOR RD. ANCHORAGE, AK**
- **CONSTRUCTION DOCUMENTS**

**Sheet No.** E002

**Panel Options:**
- New load on spare breaker
- Modifed load, see load calc for changes

**Panel Notes:**
- New load on spare breaker
- Modified load, see load calc for changes

**E002**

**Sheet No.** E002

**Panel Options:**
- New load on spare breaker
- Modified load, see load calc for changes

**Panel Notes:**
- New load on spare breaker
- Modified load, see load calc for changes

---

**MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS**

**Engineering, Inc.**

**191 East Swanson Ave.**

**PROJ. MGR.:**

**DRAWN BY:**

**DATE:**

**JOB NO.**

**REVISIONS:**

---

**SR A**

**Wasilla, AK 99654 Anchorage, AK 99503**

**Phone (907) 276-0521 Fax (907) 276-1751 Fax (907) 357-1751 Phone (907) 357-1521 670 West Fireweed Lane, Suite 200**

---

**NOT TO SCALE**
26 00 50 – COMMON WORK RESULTS FOR ELECTRICAL

A. SCOPE OF WORK: FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT FOR AN EXTENSION TO THE EXISTING ELECTRICAL SYSTEM AS SHOWN ON THE CONTRACT DOCUMENTS AND AS NOTED ON THE DRAWINGS.

26 05 05 - SELECTIVE DEMOLITION FOR ELECTRICAL

A. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING RECORD DRAWINGS. REPORT DISCREPANCIES TO OWNER OR YOUR REPRESENTATIVE.

26 05 19 - WIRE AND CABLE

A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION. B. MATERIALS: 1. ALL CONDUCTORS SHALL BE COPPER WITH TYPE XHHW, THWN, THW, OR TWFJXG. 2. WHERE CONDUCTORS ARE UNDERGROUND, USE TYPE XHHW-2 OR TYPE THWN-2. 3. IN EXPOSED LOCATIONS, USE TYPE TTC, TXHHW OR TWFJXG. 4. AUF (AIR-USE FRICTION) WIRING SYSTEM MAY BE USED. 5. OPTION, PORTIONS OF THE FIRE ALARM WIRING IN DRY, CONCEALED LOCATIONS MAY BE INSTALLED IN FIRE ALARM METAL CLAD CABLE.

26 05 26 - GROUNDING AND BONDING

A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION. B. INSTALLATION: 1. PROVIDE A SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR. 2. GROUND BUS DUCTS, PANEL CONTAINERS, PANEL SUPPORTS, SEPARATE BUS DUCTS, RACKS, ENCLOSURES, METER BASES AND OTHER ELECTRICAL ENCLOSURES WITH THE EARTH GROUNDING CONDUCTOR. 3. INSTALL A GROUNDING CONDUCTOR IN THE GROUNDING SYSTEM RACEWAY OR CABLE PLATE OR POINT OF CONNECTION DENOTING THE PANELBOARD NAME AND CIRCUIT NUMBER. INSTALL LABEL ON THE TOP OF EACH PLATE.

26 05 29 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION. B. MATERIAL: 1. SUPPORT CHANNEL SHALL BE GALVANIZED OR PAINTED STEEL. 2. WHERE SUPPORT CHANNEL IS NOT INSTALLABLE, SUPPORTING MOUNTS MAY BE USED.

26 05 33 - RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS

A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION. B. MATERIALS: 1. RIGID STEEL CONDUIT: ANSI C80.1. FITTINGS AND CONDUIT HINGES SHALL MATCH. 2. MALLEABLE IRON CONDUIT MAY BE USED. 3. HINGED CONDUIT: RIVETED OR PIN HINGED. 4. SHEATHED ELECTRICAL CONDUIT: USE SCHEDULE 40 PVC RIGID ELECTRICAL CONDUIT. 5. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS MOUNTED ABOVE COUNTERS, BENCHES AND BACKSPLASHES.

26 09 23 – LIGHTING CONTROL DEVICES

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL. B. MATERIALS: 1. MANUFACTURERS: WATTSTOPPER, SENSOR SWITCH, HUBBELL, OR OTHER ACCEPTABLE MANUFACTURER. 2. LIGHTING CONTROL SEQUENCES AND TIMER SETTINGS. 3. LOCATE POWER PACKS AND SIMILAR DEVICES IN CONCEALED, ACCESSIBLE AREAS.

26 27 26 - WIRING DEVICES

A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL. B. MATERIALS: 1. WALL SWITCHES: SWITCHES FOR LIGHTING CIRCUITS SHALL BE STANDARD SIZED, RECESSED, AND MOUNTED IN A WALL OR CEILING BOX. 2. LIGHTING DEVICES: SUBMIT PRODUCT DATA FOR APPROVAL.
26.10 - MOTOR STARTERS

A. MATERIALS:
1. MANUFACTURER: SQUARE D, GE, EATON, OR EQUAL
2. MANUAL AND FRACTIONAL MOTOR STARTERS: 3/4 to 3 HP, 220V, 415V, 575V, 3PH, 60HZ, OPEN TYPE, 15AMP TO 80AMP, 3-PHASE STARTER
3. FULL-CLOSED STARTER: 3/4 to 3 HP, 220V, 415V, 575V, 3PH, 60HZ, OPEN TYPE, 15AMP TO 80AMP, 3-PHASE STARTER
4. OVERCIRCUIT UNIT, 600V, 80AMP, 3-PHASE STARTER
5. SOLID STATE HEATER ELEMENTS IN MOTOR STARTERS TO MATCH INSTALLED MOTOR CHARACTERISTICS
6. 24VDC BREAKER FOR SELECTED UNIT TO MATCH INSTALLATION REQUIREMENTS
7. 120VDC BREAKER FOR SELECTED UNIT TO MATCH INSTALLATION REQUIREMENTS

B. INSTALLATION:
1. MANUFACTURE: SQUARE D, GE, EATON, OR EQUAL
2. INSTALLATION OF MOTOR STARTERS TO MATCH INSTALLED MOTOR CHARACTERISTICS
3. INSTALLATION OF OVERCIRCUIT UNIT TO MATCH INSTALLATION REQUIREMENTS
4. INSTALLATION OF 24VDC BREAKER TO MATCH INSTALLATION REQUIREMENTS
5. INSTALLATION OF 120VDC BREAKER TO MATCH INSTALLATION REQUIREMENTS

26.10 - LIGHTING FIXTURES

A. MATERIALS:
1. LUMINAIRES: PROVIDE AND INSTALL ALL LIGHTING EQUIPMENT OR APPROVED EQUAL AS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS: PROVIDE LIGHTING FIXTURES, LUMINAIRES, LAMPS, DRIVING ELECTRICAL HARDWARE, ETC. ALL LIGHTING EQUIPMENT INSTALLED IN THIS BUILDING IS SUBJECT TO THE CERTIFIED INSTALLER TO BE COMPLIANT WITH THE REQUIREMENTS OF THE LOCAL ELECTRICAL CODE.
2. PROTECT ORANGE OR BLACK LED FIXTURES WITH A TYPICAL SIZE OF 2 IN ORDER TO FIT THE SPECIFIC INSTALLATION
3. PROVIDE ALL MATERIALS WITH A TYPICAL SIZE OF 2 IN ORDER TO FIT THE SPECIFIC INSTALLATION
4. PROVIDE ALL MATERIALS WITH A TYPICAL SIZE OF 2 IN ORDER TO FIT THE SPECIFIC INSTALLATION

B. INSTALLATION:
1. PROVIDE AND INSTALL ALL LIGHTING EQUIPMENT OR APPROVED EQUAL AS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS: PROVIDE LIGHTING FIXTURES, LUMINAIRES, LAMPS, DRIVING ELECTRICAL HARDWARE, ETC. ALL LIGHTING EQUIPMENT INSTALLED IN THIS BUILDING IS SUBJECT TO THE CERTIFIED INSTALLER TO BE COMPLIANT WITH THE REQUIREMENTS OF THE LOCAL ELECTRICAL CODE.
2. PROVIDE ALL MATERIALS WITH A TYPICAL SIZE OF 2 IN ORDER TO FIT THE SPECIFIC INSTALLATION
3. PROVIDE ALL MATERIALS WITH A TYPICAL SIZE OF 2 IN ORDER TO FIT THE SPECIFIC INSTALLATION
4. PROVIDE ALL MATERIALS WITH A TYPICAL SIZE OF 2 IN ORDER TO FIT THE SPECIFIC INSTALLATION
GENERAL NOTES:
A. Connect emergency lighting to unswitched leg of local lighting circuit.
B. Contractor shall verify source panel and circuit number prior to start of work.

SHEET NOTES:
- Smart board location; coordinate final power and data location prior to excavation.
- Reinstall retained fire alarm device, connect to existing NAC with new conduit and wiring.
- Provide new fire alarm device that is compatible and listed for use with existing fire alarm system; connect to existing NAC circuit.
- Connect new light fixtures to retained lighting circuit.
- Connect new duplex receptacles to retained receptacle circuit.
- Connect to existing corridor lighting circuit for power and control.
- 1" conduit rough-in and recessed junction box for ceiling by others, receptacle plates provided by others.
- Connect to unsswitched leg of local lighting circuit.
- Connect emergency lighting to unsswitched leg of local lighting circuit.

LEVEL 2 CONFERENCE REMODEL PLAN
LEVEL 2 RESTROOM REMODEL PLAN
LEVEL 2 KEY PLAN
LEVEL 1 - ALTERNATE #1 AND PANEL LOCATIONS

SHEET NOTES:
ALTERNATE #1: DISCONNECT AND RECONNECT FIXTURES AND DEVICES AS NEEDED TO ACCOMMODATE NEW FINISHES. COORDINATE WITH ARCHITECTURAL.