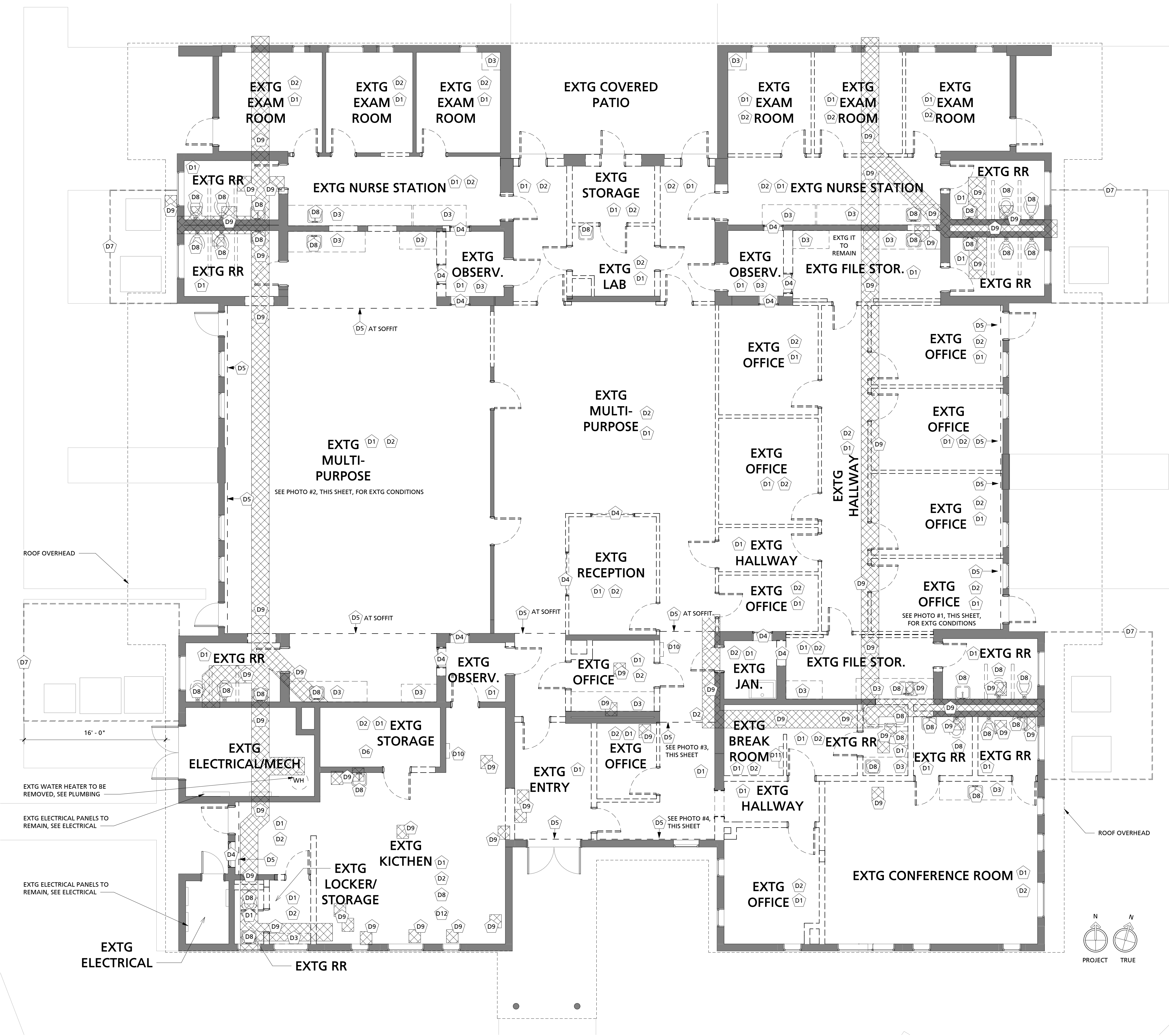


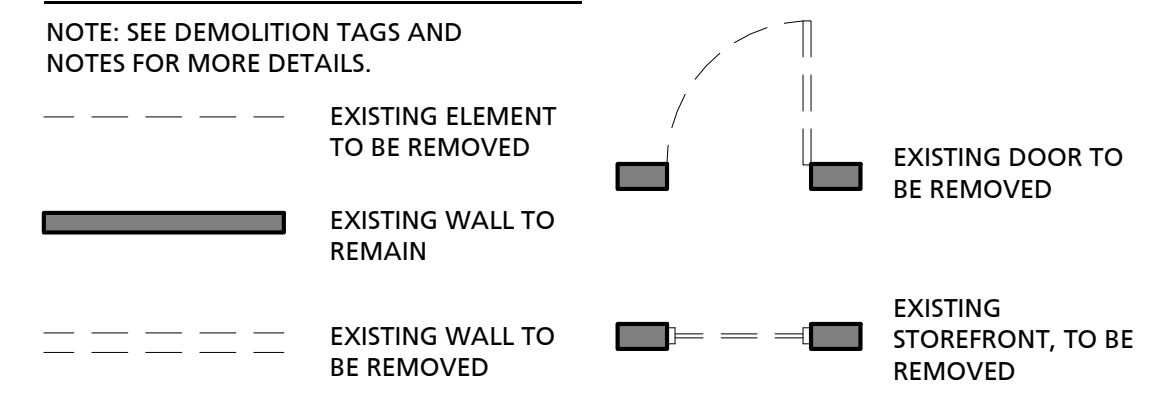
This drawing and the information shown thereon are property of 1x1 Design, Inc. This drawing may not be published, reproduced, copied, modified, uploaded, transmitted, posted, transferred or otherwise used without the prior written consent of 1x1 Design, Inc. Legal action will be pursued against all violators and infringers to the full extent possible.



GENERAL DEMOLITION NOTES

- EXISTING CONDITIONS BASED ON INFORMATION PROVIDED BY OWNER PROVIDED EXISTING PLANS, AND INFORMATION GATHERED DURING GENERAL FIELD OBSERVATION. IF GC DISCOVERS EXISTING CONDITIONS DIFFER FROM THOSE SHOWN, CONTACT OWNER OR ARCHITECT IMMEDIATELY.
 - GENERAL CONTRACTOR TO PROTECT ALL ADJACENT SURFACES TO REMAIN FROM DAMAGE DURING CONSTRUCTION. GENERAL CONTRACTOR TO REPAIR/REPLACE ANY ADJACENT SURFACES DAMAGED DURING CONSTRUCTION TO MATCH ORIGINAL CONDITIONS.
 - GENERAL CONTRACTOR TO FIELD VERIFY CONDITIONS PRIOR TO START OF CONSTRUCTION. DO NOT REMOVE MORE EXTERIOR WALL OR ROOF MATERIAL THAN WHAT CAN BE COVERED IN ONE DAY, OR PROVIDE TEMPORARY ENCLOSURE TO ENSURE BUILDING REMAINS WATER & WEATHER-TIGHT.
- SELECTIVE DEMOLITION**
- DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS. PROCEED WITH SELECTIVE DEMOLITION SYSTEMATICALLY, FROM HIGHER TO LOWER LEVEL, OR AS REQUIRED BY THE TIME FRAME OF THE PROJECT.
 - CUT OR DRILL FROM THE EXPOSED OR FINISHED SIDE INTO CONCEALED SURFACES TO AVOID MARRING EXISTING FINISHED SURFACES.
 - DO NOT USE CUTTING TORCHES UNTIL WORK AREA IS CLEARED OF FLAMMABLE MATERIALS. MAINTAIN PORTABLE FIRE SUPPRESSION DEVICES DURING FLAME-CUTTING OPERATIONS.
 - MAINTAIN ADEQUATE VENTILATION WHEN USING CUTTING TORCHES. REMOVE DECAYED, VERMIN-INFESTED, OR OTHERWISE DANGEROUS OR UNSUITABLE MATERIALS AND PROMPTLY DISPOSE OF OFF-SITE. NOTIFY ARCHITECT IMMEDIATELY OF DAMAGED OR DANGEROUS CONDITIONS.
 - LOCATE SELECTIVE DEMOLITION EQUIPMENT AND REMOVE DEBRIS AND MATERIALS SO AS NOT TO IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS OR FRAMING.
 - DISPOSE OF DEMOLISHED ITEMS AND MATERIALS PROMPTLY. EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN, REMOVE DEMOLISHED MATERIALS FROM SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL OR OTHER APPROPRIATE DISPOSAL/RECYCLING SERVICE. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
 - REMOVE EXISTING INTERIOR WINDOW BLINDS AND DISPOSE.
- UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS**
- EXISTING SERVICES/SYSTEMS: MAINTAIN EXISTING SERVICES AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
 - SERVICE/SYSTEM REQUIREMENTS: LOCATE, IDENTIFY, DISCONNECT AND SEAL OR CAP OFF INDICATED UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS SERVING AREAS TO BE SELECTIVELY DEMOLISHED.
- ELECTRICAL DEMOLITION NOTES**
- COORDINATE DEMOLITION WORK WITH FACILITY OPERATIONS AND ALL OTHER TRADES. IDENTIFY SALVAGEABLE ITEMS IN COOPERATION WITH OWNER. ERECT, AND MAINTAIN TEMPORARY SAFEGUARDS, INCLUDING WARNING SIGNS AND LIGHTS, BARRICADES, AND SIMILAR MEASURES, FOR PROTECTION OF THE OWNER, CONTRACTORS' EMPLOYEES, AND EXISTING IMPROVEMENTS TO REMAIN. PROVIDE TEMPORARY ELECTRICAL POWER AND EMERGENCY LIGHTING AS REQUIRED.
 - ENSURE ALL CIRCUITS AND EQUIPMENT TO BE DEMOLISHED ARE SAFELY DE-ENERGIZED PRIOR TO STARTING WORK. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILING SCHEDULES FOR REMOVAL. REMOVE EXPOSED WIRING AND CONDUIT IN CIRCUITS DESIGNATED TO BE ABANDONED. CUT CONCEALED CONDUIT FLUSH WITH WALLS AND FLOORS, PLUG CONDUITS AND PATCH SURFACES.
 - REMOVE ALL DISCARDED MATERIALS PER THESE SPECIFICATIONS AND OWNER'S INSTRUCTION. RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
 - KEEP ELECTRICAL POWER AND LIGHTING PANELS AS SPECIFIED ON THESE DRAWINGS. RING OUT CIRCUITS IN EXISTING PANELS WHERE ADDITIONAL CIRCUITS ARE NEEDED. REUSE AVAILABLE CIRCUITS, INSTALL NEW CIRCUIT BREAKERS AS REQUIRED - SEE ELECTRICAL DRAWINGS. CLEAN AND REPAIR EXISTING EQUIPMENT TO REMAIN, BE SALVAGED, OR TO BE REINSTALLED.
 - TESTING: TEST ALL MAIN SERVICE AND PANELBOARD FEEDER WIRING TO REMAIN IN ACCORDANCE WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. REMOVE ANY AND ALL EXISTING WIRE NO LONGER IN USE.
 - PERFORM VISUAL AND MECHANICAL TEST OF CIRCUIT BREAKERS PER REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. CIRCUIT BREAKERS EXHIBITING ANY UNUSUAL CHARACTERISTIC SHALL BE SUBJECT TO ELECTRICAL TESTS PER THE SAME REQUIREMENTS. REPLACE DEFECTIVE CIRCUIT BREAKERS WITH NEW OF SAME KIND, OR PER THE REQUIREMENTS OF THE ELECTRICAL ENGINEER, WHICHEVER IS MORE STRINGENT.
 - SALVAGE: REMOVE AND PROTECT ITEMS INDICATED ON DRAWINGS TO BE SALVAGED AND TURN OVER TO OWNER. ITEMS OF SALVAGEABLE VALUE MAY BE REMOVED AS WORK PROGRESSES. TRANSPORT SALVAGED ITEMS FROM SITE AS THEY ARE REMOVED, TO OWNER SPECIFIED LOCATION.
- CONCRETE**
- DEMOLISH IN SECTIONS. CUT CONCRETE FULL DEPTH AT JUNCTURE WITH CONSTRUCTION TO REMAIN AND AT REGULAR INTERVALS, USING POWER-DRIVEN SAW, THEN REMOVE CONCRETE BETWEEN SAW CUTS.
 - AT SLAB ON GRADE, SAW-CUT PERIMETER OF AREA TO BE DEMOLISHED, THEN BREAK UP AND REMOVE.
- MASONRY**
- DEMOLISH IN SMALL SECTIONS. CUT MASONRY AT JUNCTURES WITH CONSTRUCTION TO REMAIN, USING POWER-DRIVEN SAW, THEN REMOVE MASONRY BETWEEN SAW CUTS.
- FLOOR COVERINGS**
- REMOVE FLOOR COVERINGS AND ADHESIVE ACCORDING TO RECOMMENDATIONS BY THE MANUFACTURER AND IN A MANNER IN WHICH PREPARES SURFACE FOR INSTALLATION OF NEW MATERIAL, PER THE MANUFACTURER'S RECOMMENDATIONS OF THE NEW MATERIAL.
- CLEANING**
- CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY SELECTIVE DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE SELECTIVE DEMOLITION OPERATIONS BEGAN AND SUITABLE FOR OWNER OCCUPATION.
- TEMPORARY SHORING**
- PROVIDE AND MAINTAIN SHORING, BRACING AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION AND FINISHES TO REMAIN, AND TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED. STRENGTHEN OR ADD NEW SUPPORTS WHEN REQUIRED DURING PROGRESS OF SELECTIVE DEMOLITION.

DEMOLITION LEGEND



DEMOLITION KEY NOTE LEGEND

- FLOOR PLAN:**
- D1 REMOVE AND DISPOSE OF ALL INTERIOR FINISHES AND DEBRIS, THIS ROOM. CLEAN AREA TO RECEIVE NEW CONSTRUCTION AND FINISHES
 - D2 ALL REMAINING FREE STANDING FURNITURE IN SPACE TO BE REMOVED AND DISPOSED BY GC. GC TO COORDINATE WITH OWNER ON REMOVAL OF ALL ITEMS PRIOR TO DISPOSAL
 - D3 REMOVE AND DISPOSE OF ALL EXTG CASEWORK AND SHELVING
 - D4 REMOVE AND DISPOSE OF EXTG WINDOW AND FRAME
 - D5 REMOVE AND DISPOSE OF EXTG WOOD PANELING AT THIS WALL LOCATION. SEE PHOTOS THIS SHEET FOR TYPICAL CONDITION
 - D6 EXTG ATTIC ACCESS THROUGH CEILING TILE TO BE REMOVED AND DISPOSED
 - D7 EXTG MECHANICAL SCREEN TO BE REMOVED IN ITS ENTIRETY
 - D8 EXTG PLUMBING FIXTURES TO BE REMOVED IN THIS AREA
 - D9 AREA OF ANTICIPATED TRENCHING AT CONCRETE SLAB. COORDINATE WITH PLUMBING
 - D10 EXTG ELECTRICAL PANEL TO BE REMOVED AND DISPOSED, SEE ELECTRICAL
 - D11 EXTG FIRE ALARM PANEL TO BE REMOVED AND DISPOSED OF, SEE ELECTRICAL
 - D12 REMOVE AND DISPOSE OF EXTG KITCHEN EQUIPMENT AND SUPPRESSION SYSTEM
- ATTIC PLAN:**
- D13 EXTG MECHANICAL EQUIPMENT TO BE MODIFIED. SEE MECHANICAL
 - D14 EXTG LOUVER TO BE REMOVED AND DISPOSED, SEE MECHANICAL
 - D15 EXTG LOUVER TO REMAIN, SEE MECHANICAL
 - D16 NEW WALL OPENING FOR NEW MECHANICAL LOUVER, SEE MECHANICAL
- ROOF PLAN:**
- D17 REMOVE AND DISPOSE EXTG MECHANICAL EQUIPMENT AND REPAIR ROOF AT EXTG PENETRATIONS. GC TO COORDINATE SCOPE OF WORK AND ENSURE WORK DOES NOT VOID EXTG ROOF WARRANTY
- REFLECTED CEILING PLAN:**
- D18 REMOVE AND DISPOSE EXTG MECHANICAL AND ELECTRICAL EQUIPMENT, SEE MECHANICAL AND ELECTRICAL
 - D19 REMOVE AND DISPOSE EXTG CEILING TILES AND GRID

1 DEMOLITION PLAN
3/16" = 1'-0"

EXTG CONDITONS



221 PICKENS STREET (29205)
POST OFFICE BOX 3875
COLUMBIA, SOUTH CAROLINA
29250
803.834.4048 p
803.834.4082 f
WWW.1X1DESIGN.COM

COLUMBIA HOUSING AUTHORITY
COLUMBIA HOUSING AUTHORITY ANNEX BUILDING RENOVATION
2133 WALKER SOLOMON WAY, COLUMBIA, SOUTH CAROLINA 29204

CLIENT NAME	COLUMBIA HOUSING AUTHORITY
PROJECT NAME	COLUMBIA HOUSING AUTHORITY ANNEX BUILDING RENOVATION
PROJECT ADDRESS	2133 WALKER SOLOMON WAY, COLUMBIA, SOUTH CAROLINA 29204
PROJECT NUMBER	C-19-066-2
SHEET NUMBER	AD101
SHEET NAME	DEMOLITION PLAN
DATE	05/04/2021

RELEASED FOR PLAN REVIEW AND BIDDING - MAY 4, 2021

5/9/2021 14:51 PM

This drawing and the information shown thereon are property of 1x1 Design, Inc. This drawing may not be published, reproduced, copied, modified, uploaded, transmitted, posted, transferred or otherwise used without the prior written consent of 1x1 Design, Inc. Legal action will be pursued against all violators and infringers to the full extent possible.



221 PICKENS STREET (29205)
POST OFFICE BOX 3875
COLUMBIA, SOUTH CAROLINA
29250
803.834.4048 p
803.834.4082 f
WWW.1X1DESIGN.COM

GENERAL FLOOR PLAN NOTES

- EXISTING CONDITIONS BASED ON INFORMATION PROVIDED BY OWNER PROVIDED EXISTING PLANS, AND INFORMATION GATHERED DURING GENERAL FIELD OBSERVATION. IF GC DISCOVERS EXISTING CONDITIONS DIFFER FROM THOSE SHOWN, CONTACT OWNER OR ARCHITECT IMMEDIATELY.
- ALL DIMENSIONS ARE TO FACE OF EXISTING ELEMENT OR FACE OF NEW STUD UNLESS NOTED OTHERWISE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY.
- SEE A300B FOR FINISH SELECTION AND DETAILS.
- FEC SHOWN FOR REFERENCE ONLY. COORDINATE WITH FIRE MARSHALL TO LOCATE ALL REQUIRED FEC IN FIELD. FOR PRICING, ASSUME 3 CABINETS AND EXTINGUISHERS.
- GENERAL CONTRACTOR TO COORDINATE ALL AV REQUIREMENTS WITH OWNER. SEE G102 FOR PARTITION TYPES AND NOTES.
- AT EXTG WALL ASSEMBLY ALIGN FINISH FACE OF NEW WALL PARTITION.
- OWNER TO PROVIDE AND INSTALL NEW BLINDS AT EXTERIOR WINDOWS.
- AT ALL EXTERIOR WINDOWS THE HEAD, JAMB AND SILL SHOULD HAVE A DRYWALL FINISH SIMILAR TO THE WALL PARTITION TYPE AT EACH LOCATION.

FLOOR PLAN LEGEND

- NEW WALL
- EXISTING WALL
- DEMOLISHED WALL
- NEW DOOR, SEE DOOR SCHEDULE
- Room name**
- ROOM TAG, SEE PLAN AND FINISH SCHEDULE
- WINDOW TAG, SEE PLAN AND WINDOW SCHEDULE
- DOOR TAG, SEE PLAN AND DOOR SCHEDULE
- INTERIOR WALL TAG, SEE PARTITION TYPES
- EXTERIOR WALL TAG, SEE EXTERIOR WALL SYSTEMS
- FLOOR DRAIN, SEE PLUMBING
- WALL CLEAN OUT, SEE PLUMBING
- THERMOSTAT, SEE ELECTRICAL

FIRE EXTINGUISHER CABINETS

- FIRE EXTINGUISHER CABINET (FEC-1):**
- MFR: LARSEN'S ARCHITECTURAL SERIES - SEMI RECESSED
 - STYLE: VERTICAL DUO WITH CLEAR ACRYLIC
 - DOOR STYLE: TYPE A, COLOR TO BE SELECTED BY OWNER
 - LETTERING: STAINLESS STEEL (SS)
 - MATERIAL: ROLLED, 4" MAXIMUM FROM WALL SURFACE TO OUTERMOST PROJECTION
 - TRIM: 10 LBS CAPACITY
 - FIRE EXTINGUISHER TYPE: 10 LBS CAPACITY

RENOVATION KEY NOTE LEGEND

- FLOOR PLAN:**
- R1 PROVIDE NEW 5/8" GYPSUM BOARD LAYER AT LOCATION(S) OF REMOVED EXTG WOOD PANELING, THIS WALL
 - R2 CASEWORK AND SHELVING PROVIDED BY OWNER. CASEWORK BLOCKING TO BE PROVIDED BY GC. LOCATIONS SHOWN FOR REFERENCE ONLY. GC TO COORDINATE FINAL BLOCKING LOCATIONS WITH OWNER.
 - R3 PROVIDE NEW MECHANICAL SCREEN, SEE SHEET A001 FOR BASIS OF DESIGN PRODUCT
 - R4 PROVIDE NEW CONCRETE SLAB INFILL, THIS HATCH AREA; SEE STRUCTURAL AND PLUMBING
- ATTIC PLAN:**
- R5 EXTG MECHANICAL EQUIPMENT TO BE REMAIN, COORDINATE LOCATION OF DUCTWORK WITH MECHANICAL. SEE MECHANICAL
 - R6 PROVIDE NEW ATTIC ACCESS WITH ACCESS LADDER; GC TO COORDINATE PLACEMENT AND ORIENTATION WITH ARCHITECT ONCE PRODUCT HAS BEEN SELECTED. SEE STRUCTURAL FOR EXISTING FRAMING MODIFICATIONS
- BASIS-OF-DESIGN:**
- MFR: FINFAST OR APPROVED EQUAL
 - PRODUCT: KATTCRIMP FOLD DOWN LADDER OR APPROVED EQUAL
 - TYPE: RL62 COMMERCIAL FOLD DOWN LADDER OR APPROVED EQUAL
- MECHANICAL:**
- R7 PATCH EXTERIOR WALL AT FORMER LOUVER LOCATION WITH LIKE CONSTRUCTION. EXTERIOR FINISH TO BE EIFS 1, SEE A601 SEE MECHANICAL
 - R8 EXTG MECHANICAL LOUVER TO REMAIN, SEE MECHANICAL
 - R9 INSTALL NEW MECHANICAL LOUVER, SEE MECHANICAL
- ROOF PLAN:**
- R10 REPAIR EXTG ROOF PENETRATIONS. GC TO COORDINATE SCOPE OF WORK DOES NOT VOID EXTG ROOF WARRANTY
- REFLECTED CEILING PLAN:**
- R11 PROVIDE BULK HEAD ASSEMBLY AT 6" BELOW CEILING AND EXTEND TO 6" ABOVE CEILING. BULKHEAD ASSEMBLY TO INCLUDE (1) LAYER 5/8" GYPSUM BOARD EACH SIDE OF 3/8" METAL STUD. VERTICAL FACES PAINTED TO MATCH WALL COLOR. HORIZONTAL FACES TO BE PAINTED FLAT CEILING WHITE.



1 FIRST FLOOR PLAN - RENOVATION
3/16" = 1'-0"

RELEASED FOR PLAN REVIEW AND BIDDING - MAY 4, 2021

COLUMBIA HOUSING AUTHORITY
COLUMBIA HOUSING AUTHORITY ANNEX BUILDING RENOVATION
2133 WALKER SOLOMON WAY, COLUMBIA, SOUTH CAROLINA 29204

CLIENT NAME	PROJECT NUMBER	C-19-066-2
PROJECT NAME	SHEET NUMBER	A101
PROJECT ADDRESS	SHEET NAME	FLOOR PLANS
DATE	DATE	05/04/2021

5/5/2021 14:52:12 PM

This drawing and the information shown thereon are property of 1x1 Design, Inc. This drawing may not be published, reproduced, copied, modified, uploaded, transmitted, posted, transferred or otherwise used without the prior written consent of 1x1 Design, Inc. Legal action will be pursued against all violators and infringements to the full extent possible.

GENERAL REFLECTED CEILING PLAN NOTES

- EXISTING CONDITIONS BASED ON INFORMATION PROVIDED BY EXISTING PLANS, OWNER, CONSTRUCTION MANAGER, LANDLORD AND/OR INFORMATION GATHERED DURING GENERAL FIELD OBSERVATION. IF GC DISCOVERS EXISTING CONDITIONS DIFFER FROM THOSE SHOWN, CONTACT OWNER OR ARCHITECT IMMEDIATELY.
- ALL CEILING TILE TO BE CENTERED IN SPACE EXACTLY AS SHOWN UNLESS NOTED OTHERWISE. ALL APC TO BE INSTALLED PER SEISMIC REQUIREMENTS. SEE SPECS.
- ALL GWB CEILINGS TO BE PAINTED FLAT CEILING WHITE, UNLESS NOTED OTHERWISE.
- SEE ELECTRICAL FOR ALL LIGHT FIXTURES AND ELECTRICAL REQUIREMENTS.
- SEE ELECTRICAL FOR ALL EMERGENCY AND EGRESS FIXTURE LOCATIONS.
- SEE MECHANICAL FOR ALL MECHANICAL ELEMENTS.
- CEILING HEIGHT TO BE 9'-0" AFF UNLESS NOTED OTHERWISE.
- COORDINATE WITH ELECTRICAL AND MECHANICAL FOR ALL FIXTURES AND EQUIPMENT SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION. WHERE ENGINEERING DRAWINGS CALL FOR ROOF PENETRATIONS WITH EXISTING ROOFING SYSTEM OR ROOF SYSTEM TO BE REPLACED, FLASH AND SEAL AS REQUIRED.
- EXIT SIGNS



221 PICKENS STREET (29205)
POST OFFICE BOX 5875
COLUMBIA, SOUTH CAROLINA
29250
803.834.4048 p
803.834.4082 f
WWW.1X1DESIGN.COM

REFLECTED CEILING PLAN LEGEND

- 2'x4' ACOUSTICAL PANEL CEILING (APC) (NEW), HEIGHT VARIES.
- SUPPLY DIFFUSER, SEE MECHANICAL.
- RETURN REGISTER, SEE MECHANICAL.
- EXHAUST DUCT, SEE MECHANICAL.
- 2'x4' LIGHTING FIXTURE, SEE ELECTRICAL.
- 1'x4' LIGHTING FIXTURE, SEE ELECTRICAL.
- EXTERIOR LIGHTING FIXTURE, SEE ELECTRICAL.
- EXTERIOR RECESSED CAN LIGHT, SEE ELECTRICAL.
- EXIT SIGN, SEE ELECTRICAL.
- EXIT LIGHT, SEE ELECTRICAL.

RENOVATION KEY NOTE LEGEND

FLOOR PLAN:

- R1 PROVIDE NEW 5/8" GYPSUM BOARD LAYER AT LOCATION(S) OF REMOVED EXTG WOOD PANELING, THIS WALL.
- R2 CASEWORK AND SHELVING PROVIDED BY OWNER. CASEWORK BLOCKING TO BE PROVIDED BY GC. LOCATIONS SHOWN FOR REFERENCE ONLY. GC TO COORDINATE FINAL BLOCKING LOCATIONS WITH OWNER.
- R3 PROVIDE NEW MECHANICAL SCREEN, SEE SHEET A001 FOR BASIS OF DESIGN PRODUCT.
- R4 PROVIDE NEW CONCRETE SLAB INFILL, THIS HATCH AREA; SEE STRUCTURAL AND PLUMBING.

ATTIC PLAN:

- RS EXTG MECHANICAL EQUIPMENT TO BE REMAIN. COORDINATE LOCATION OF DUCTWORK WITH MECHANICAL. SEE MECHANICAL.
- R6 PROVIDE NEW ATTIC ACCESS WITH ACCESS LADDER; GC TO COORDINATE PLACEMENT AND ORIENTATION WITH ARCHITECT ONCE PRODUCT HAS BEEN SELECTED. SEE STRUCTURAL FOR EXISTING FRAMING MODIFICATIONS.

BASIS-OF-DESIGN:

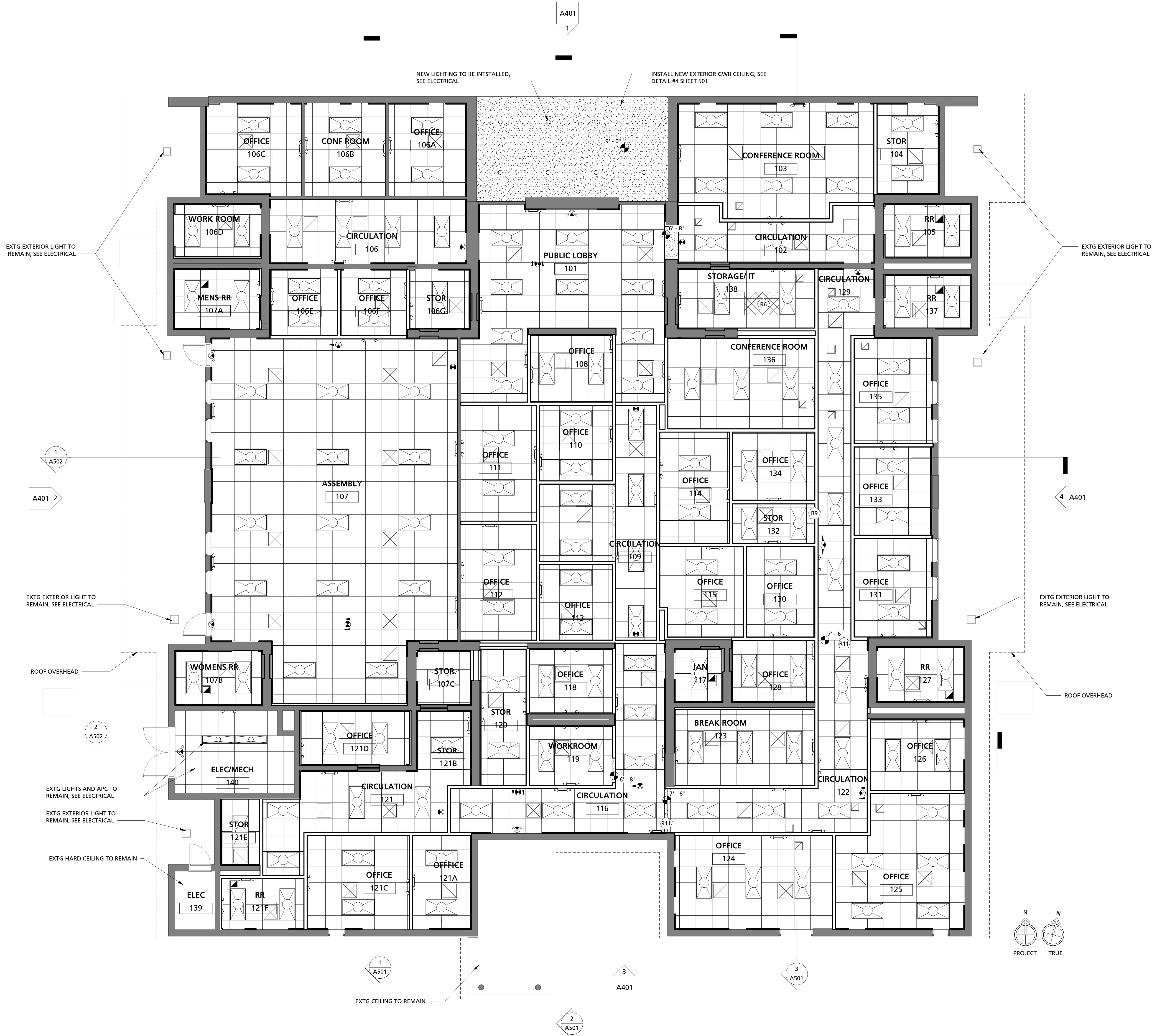
- MFR: FIXFAST OR APPROVED EQUAL
- PRODUCT: KATTLIMB FOLD DOWN LADDER OR APPROVED EQUAL
- TYPE: RL62 COMMERCIAL FOLD DOWN LADDER OR APPROVED EQUAL
- R7 PATCH EXTERIOR WALL AT FORMER LOUVER LOCATION WITH LIKE CONSTRUCTION. EXTERIOR FINISH TO BE EIFS 1, SEE A401 SEE MECHANICAL.
- R8 EXTG MECHANICAL LOUVER TO REMAIN, SEE MECHANICAL.
- R9 INSTALL NEW MECHANICAL LOUVER, SEE MECHANICAL.

ROOF PLAN:

- R10 REPAIR EXTG ROOF PENETRATIONS. GC TO COORDINATE SCOPE OF WORK DOES NOT VOID EXTG ROOF WARRANTY.

REFLECTED CEILING PLAN:

- R11 PROVIDE BULK HEAD ASSEMBLY AT 6" BELOW CEILING AND EXTEND TO 6" ABOVE CEILING. BULKHEAD ASSEMBLY TO INCLUDE (1) LAYER 5/8" GYPSUM BOARD EACH SIDE OF 3/8" METAL STUD. VERTICAL FACES PAINTED TO MATCH WALL COLOR. HORIZONTAL FACES TO BE PAINTED FLAT CEILING WHITE.



1 REFLECTED CEILING PLAN - RENOVATION
3/16" = 1'-0"

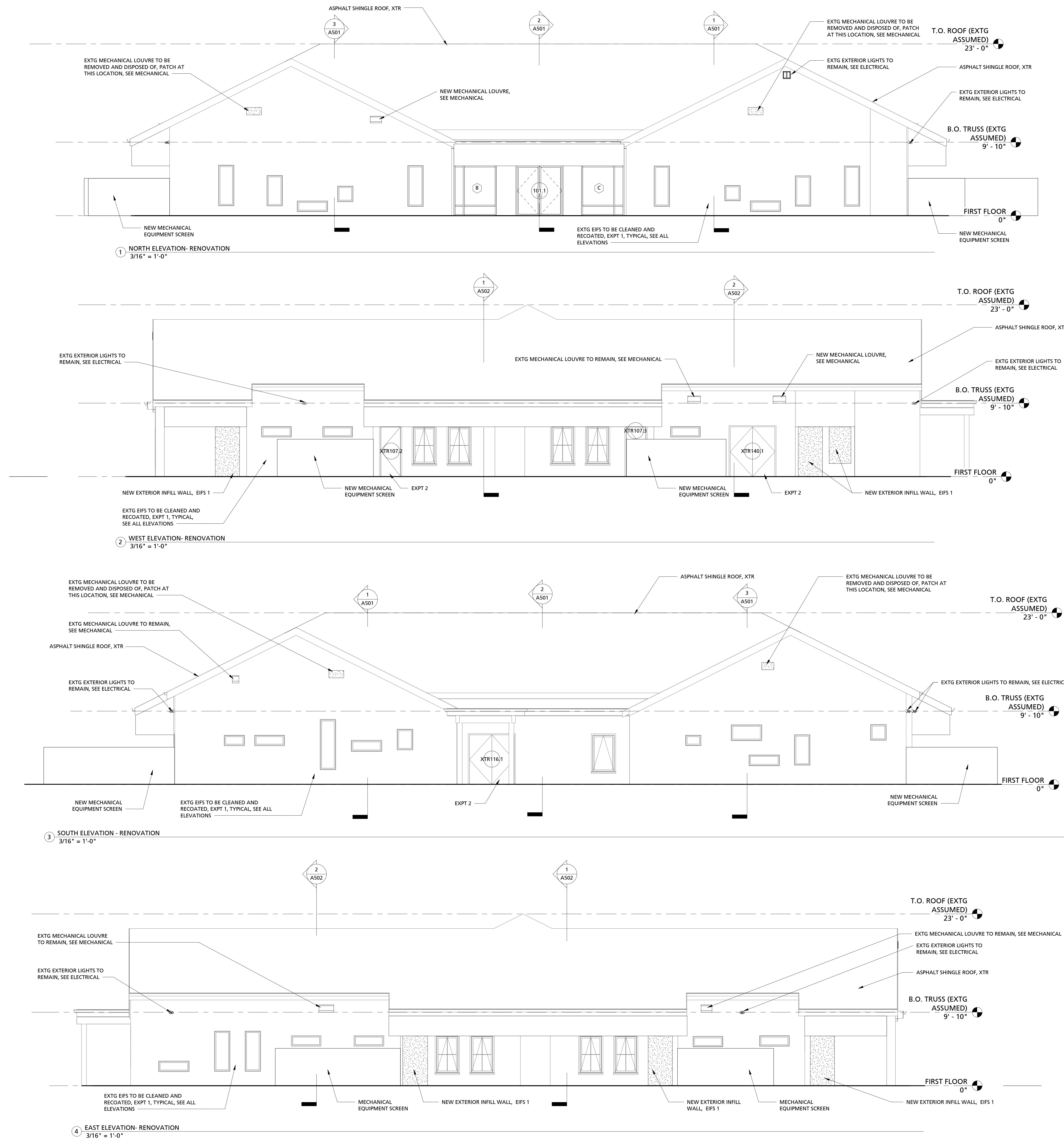
RELEASED FOR PLAN REVIEW AND BIDDING - MAY 4, 2021

COLUMBIA HOUSING AUTHORITY
COLUMBIA HOUSING AUTHORITY ANNEX BUILDING RENOVATION
2133 WALKER SOLOMON WAY, COLUMBIA, SOUTH CAROLINA 29204

CLIENT NAME	COLUMBIA HOUSING AUTHORITY
PROJECT NAME	COLUMBIA HOUSING AUTHORITY ANNEX BUILDING RENOVATION
PROJECT ADDRESS	2133 WALKER SOLOMON WAY, COLUMBIA, SOUTH CAROLINA 29204
PROJECT NUMBER	C-19-066-2
SHEET NUMBER	A201
SHEET NAME	REFLECTED CEILING PLAN
DATE	05/04/2021

5/5/2021 1:45:20 PM

This drawing and the information shown thereon are property of 1x1 Design, Inc. This drawing may not be published, reproduced, copied, modified, uploaded, transmitted, posted, transferred or otherwise used without the prior written consent of 1x1 Design, Inc. Legal action will be pursued against all violators and infringers to the full extent possible.



GENERAL ELEVATION NOTES

1. NO CONTROL JOINTS ARE SHOWN IN EIFS SYSTEM. AFTER SELECTION AND APPROVAL OF EXACT EIFS SYSTEM TO BE USED, COORDINATE CONTROL JOINT REQUIREMENTS AND LOCATIONS WITH ARCHITECT.
2. ROOF SLOPE TO BE $\frac{3}{12}$ UNLESS NOTED OTHERWISE.
3. DIMENSIONS TO FACE OF BRICK ARE FROM DOMINANT BRICK SURFACE ABOVE WATER TABLE.
4. REFER TO A800S FOR GLAZING AND STOREFRONT MATERIALS.

EXTERIOR MATERIAL KEY

EIFS 1 - WATER DRAINAGE EXTERIOR INSULATION AND FINISH SYSTEM

EXTERIOR MATERIAL LEGEND

EIFS 1 - WATER DRAINAGE EXTERIOR INSULATION AND FINISH SYSTEM

MFR: STG CORP OR APPROVED EQUAL
 PRODUCT: TBD
 FINISH: TBD
 COLOR: TO BE SELECTED BY ARCHITECT FROM MFR FULL RANGE

EXPT 1 - EXTERIOR PAINT (FIELD COLOR)

CLEANING
 1) CLEAN ALL EXTG EIFS USING A "SOFT WASH" OF 1200 PSI MAX
 2) CLEAN USING:
 MFR: GREAT LAKES LABORATORIES
 PRODUCT: NO RINSE PREPAINT CLEANER

PAINT:
 MFR: ROSE TALBERT
 PRODUCT: 200 PREMIUM HIGH PERFORMANCE BONDAPLEX LOW LUSTRE (2 COATS)
 COLOR: TBD
 FINISH: EG-SHEL

EXPT 2 - EXTERIOR PAINT (EXTERIOR DOORS)

MFR: ROSE TALBERT
 PRODUCT: TBD
 COLOR: TBD
 FINISH: EG-SHEL



221 PICKENS STREET (29205)
 POST OFFICE BOX 5875
 COLUMBIA, SOUTH CAROLINA
 29250
 803.834.4048 p
 803.834.4082 f
 WWW.1X1DESIGN.COM

COLUMBIA HOUSING AUTHORITY

COLUMBIA HOUSING AUTHORITY ANNEX BUILDING RENOVATION
 2133 WALKER SOLOMON WAY, COLUMBIA, SOUTH CAROLINA 29204

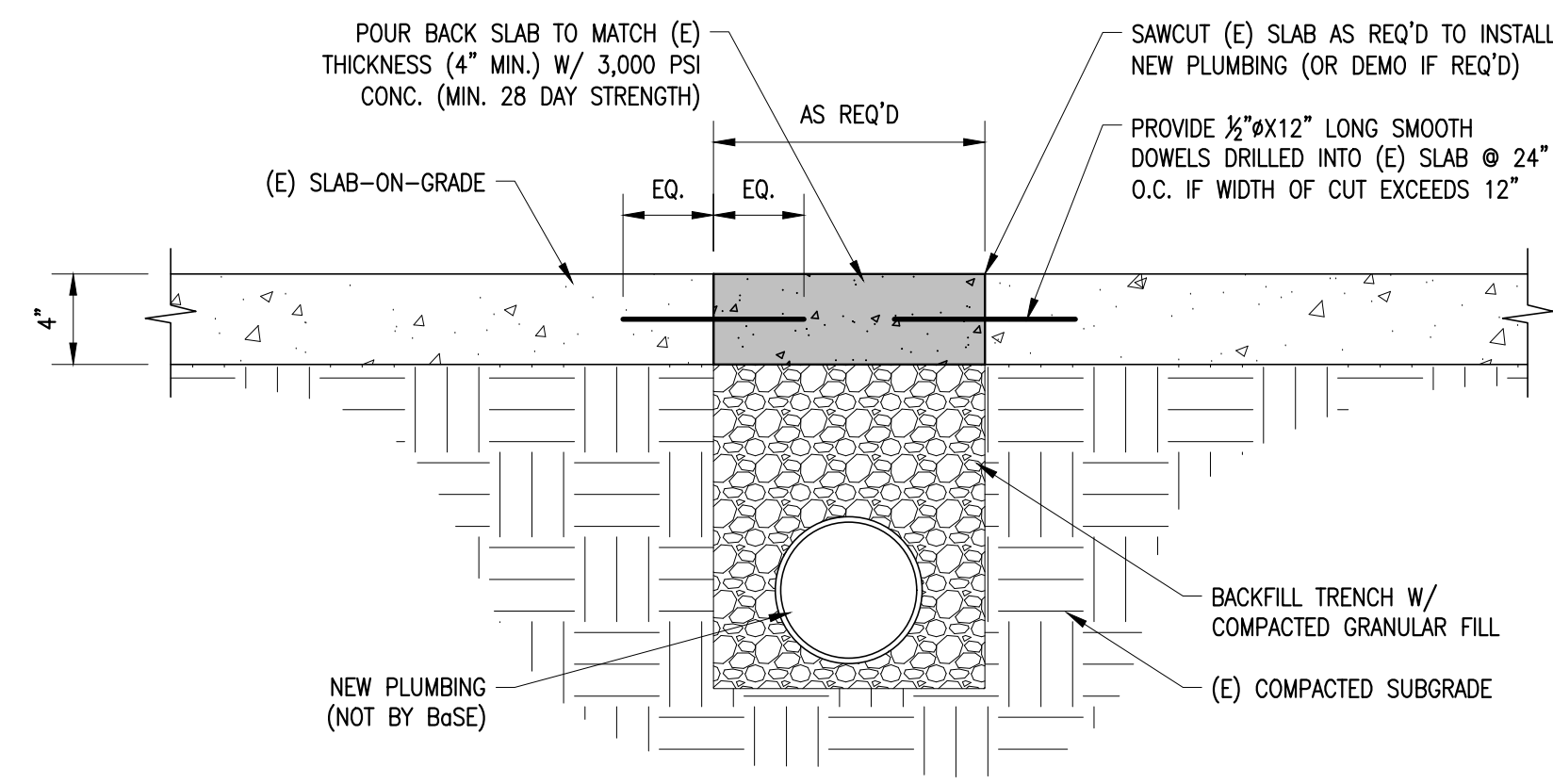
RELEASED FOR PLAN REVIEW AND BIDDING - MAY 4, 2021

CLIENT NAME	COLUMBIA HOUSING AUTHORITY
PROJECT NAME	COLUMBIA HOUSING AUTHORITY ANNEX BUILDING RENOVATION
PROJECT ADDRESS	2133 WALKER SOLOMON WAY, COLUMBIA, SOUTH CAROLINA 29204

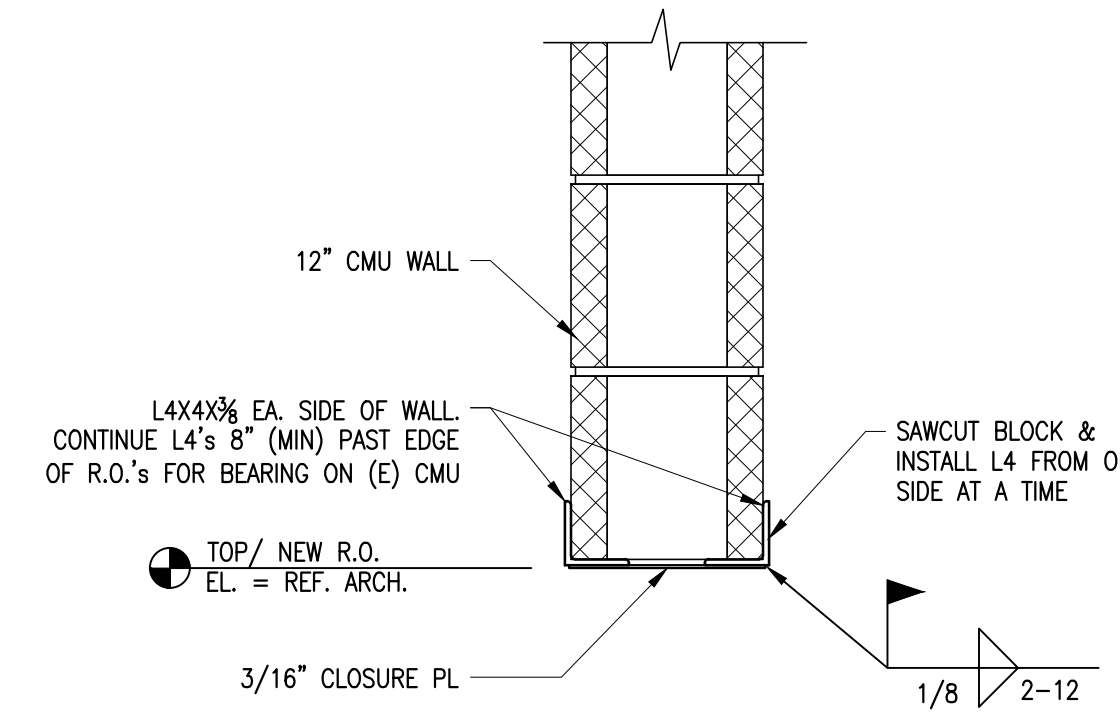
REVISIONS		
No.	Description	Date

PROJECT NUMBER: C-19-066-2
 SHEET NUMBER: **A401**
 SHEET NAME: ELEVATIONS
 DATE: 05/04/2021

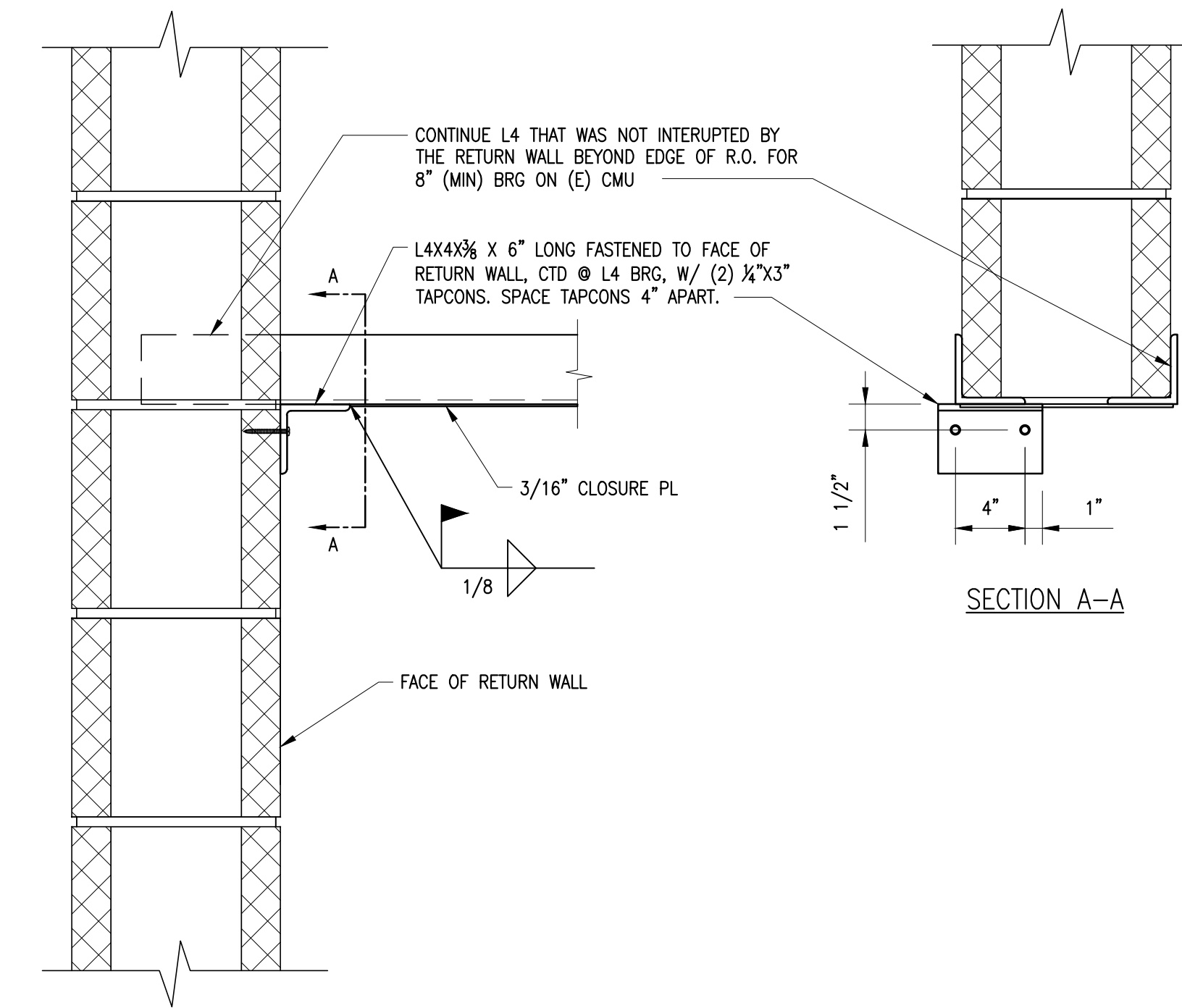
5/8/2021 1:45:26 PM



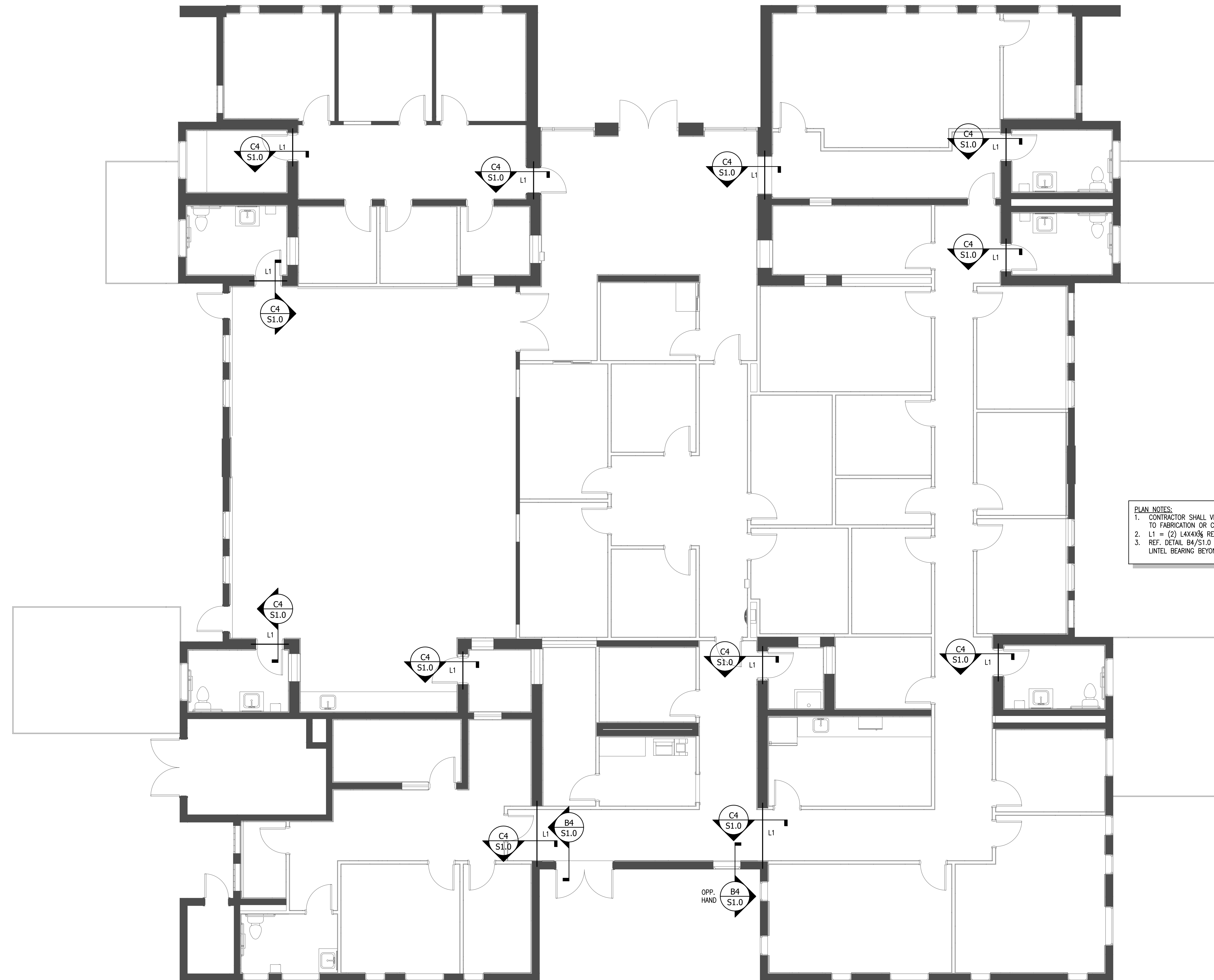
C1
S1.0
1 1/2"x1'-0"



C4
S1.0
1'-11/2"



B4
S1.0
3/4"x1'-0"



A1
S1.0
3'16"x1'-0"

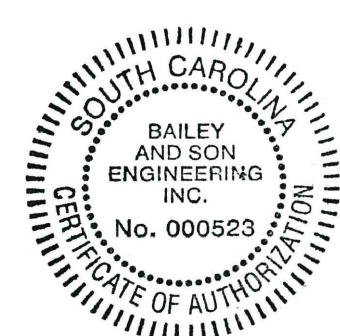
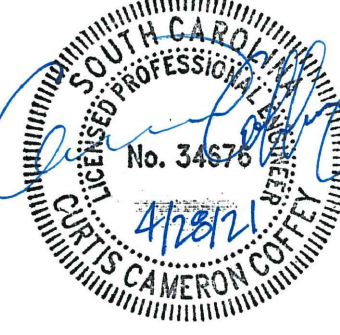
A4
S1.0

- GENERAL NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND BRACING ALL WORK DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL OSHA REGULATIONS ON THE PROJECT SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS SHOWN AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION AND CONSTRUCTION.
 - THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR OR THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL TO THE WORK OF THE CONTRACTOR. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE FAILURE OF THE CONTRACTOR TO PERFORM THE CONSTRUCTION WORK IN ACCORDANCE WITH DRAWINGS. THE COST OF ANY TESTS OR WORK REQUIRED BECAUSE OF CONTRACTOR'S FAILURE TO PERFORM IN ACCORDANCE WITH THE DRAWINGS SHALL BE BORNE BY THE CONTRACTOR.
 - CONTRACTOR SHALL REFER TO OTHER DISCIPLINE'S DRAWINGS AND VISIT SITE TO OBSERVE (E) CONSTRUCTION AND AS-BUILT CONDITIONS. SURVEY PROJECT SITE TO LOCATE UNDERGROUND ITEMS & UTILITIES. REMOVE / RELOCATE EXISTING ITEMS IF REQUIRED FOR NEW CONSTRUCTION. COORDINATE ANY DISRUPTION OF SERVICES WITH OWNER.
 - CONTRACTOR SHALL REFER TO ARCHITECTURAL TO COORDINATE ALL DIMENSIONS AND ELEVATIONS RELATED TO WORK SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL DIMENSIONS WITH THE FABRICATOR. NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
 - ALL MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, CURRENT EDITION.
 - REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION, OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION, UNLESS SPECIFICALLY STATED OTHERWISE.
 - BOTH BAILEY AND SON ENGINEERING, INC. AND THE ENGINEER WHOSE PROFESSIONAL SEAL IS AFFIXED TO THESE CONTRACT DRAWINGS DISCLAIM ANY IMPLIED WARRANTIES OF ANY KIND WHATSOEVER INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTY OF FITNESS OF THESE DRAWINGS AND/OR SPECIFICATIONS.
 - THE REHABILITATION OF AN EXISTING STRUCTURE REQUIRES ASSUMPTIONS TO BE MADE REGARDING EXISTING CONDITIONS. THESE ASSUMPTIONS MAY NOT BE VERIFIABLE WITHOUT ADDITIONAL COST OR WITHOUT DESTROYING OTHERWISE SEPARABLE PORTIONS OF THE STRUCTURE. THE ENGINEER SHALL NOT BE LIABLE FOR ANY COST ARISING FROM THE DISCOVERY OF UNKNOWN CONDITIONS IN THE EXISTING STRUCTURE.

- STRUCTURAL STEEL NOTES:**
- DESIGN, FABRICATION, AND ERECTION OF ALL STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, FIFTEENTH EDITION, UNLESS NOTED OTHERWISE.
 - MATERIALS SHALL MEET THE REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS:
 ANGLES AND PLATES.....ASTM A36
 WELDING ELECTRODES.....AWS-A5.1, E70XX LOW HYDROGEN (OR EQUAL)
 STEEL NOT PREVIOUSLY NOTED.....ASTM A36 (OR BETTER)
 - ALL STRUCTURAL WELDING SHALL BE MADE BY A CERTIFIED WELDER IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS SPECIFICATIONS D1.1. MINIMUM SIZE OF FILLET WELD SHALL BE 1/16" SMALLER THAN MATERIAL THICKNESS OF THICKER PART JOINED, UNLESS NOTED OTHERWISE.
 - ELECTRODE STORAGE FOR LOW-HYDROGEN ELECTRODES SHALL BE STORED @ 250' WHEN EXPOSURE EXCEEDS REQUIREMENTS OF COLUMN A, TABLE 51 OF AWS. WELD CLEANING AND PAINTING OF COMPLETED WELDS SHALL BE IN ACCORDANCE WITH AWS.
 - ALL BOLTED CONNECTIONS SHALL BE BEARING-TYPE USING 3/4" DIAMETER AND BROUGHT TO A SNUG TIGHT CONDITION. A325-N BOLTS WITH THREADS INCLUDED IN SHEAR PLANE, UNLESS NOTED OTHERWISE.
 - SHOP CONNECTIONS MAY BE BOLTED OR WELDED.
 - FIELD CONNECTIONS SHALL BE BOLTED UNLESS NOTED OTHERWISE ON DRAWINGS.
 - PRIME STEEL WITH STANDARD SHOP PRIMER AT 2.0 MILS DFT. SHOP PRIMER SHALL BE COMPATIBLE WITH OVERCOAT AS REQUIRED.



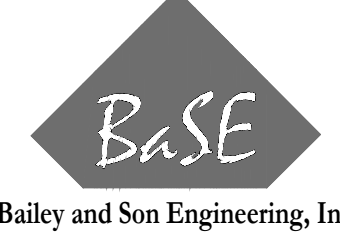
221 PICKENS STREET (2020S)
POST OFFICE BOX 5875
COLUMBIA, SOUTH CAROLINA
29250
803.834.4048 p
803.834.4081 f
WWW.1X1DESIGN.COM



H2L
CONSULTING ENGINEERS
118 SOUTH PLEASANTBURG DRIVE
GREENVILLE, SOUTH CAROLINA
29607 (864) 233-8844
www.h2l.com

NOTICE:
THIS DRAWING IS THE PROPERTY OF H2L CONSULTING ENGINEERS, AND IS FURNISHED WITH THE CONDITION THAT IT IS NOT TO BE CHANGED WITHOUT WRITTEN AUTHORIZATION OF H2L. FURTHERMORE, THIS DRAWING IS NOT TO BE COPIED, REPRODUCED OR USED BY OTHERS EXCEPT AS REQUIRED FOR THE WORK OF THIS SPECIFIC PROJECT.

COPYRIGHT © 2021 H2L 303447



Bailey and Son Engineering, Inc.
124 Edinburgh Court, Suite 209
Greenville, South Carolina 29607
Phone: (864) 232-1284
www.BaSE91.com

COLUMBIA HOUSING AUTHORITY
COLUMBIA HOUSING AUTHORITY ANNEX BUILDING RENOVATION
2/133 WALKER SOLOMON WAY, COLUMBIA, SOUTH CAROLINA 29204

CLIENT NAME	PROJECT NAME	PROJECT ADDRESS

REVISIONS		
No.	Description	Date
A	Owner Review	03/15/2021
G	PERMIT & BID	04/28/2021

BY: DESIGN PROJECT NUMBER: C-19-005-2	DATE: 2020/02
BY: CHECKED PROJECT NUMBER: 2002/02	DATE: 2020/02

S1.0

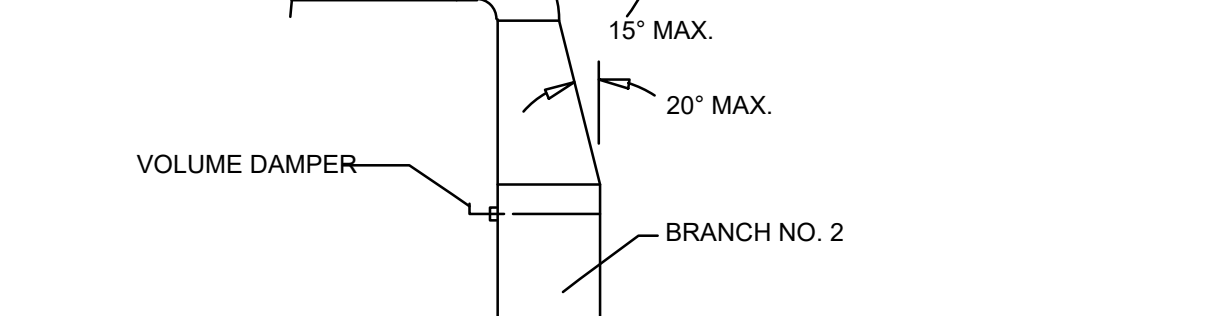
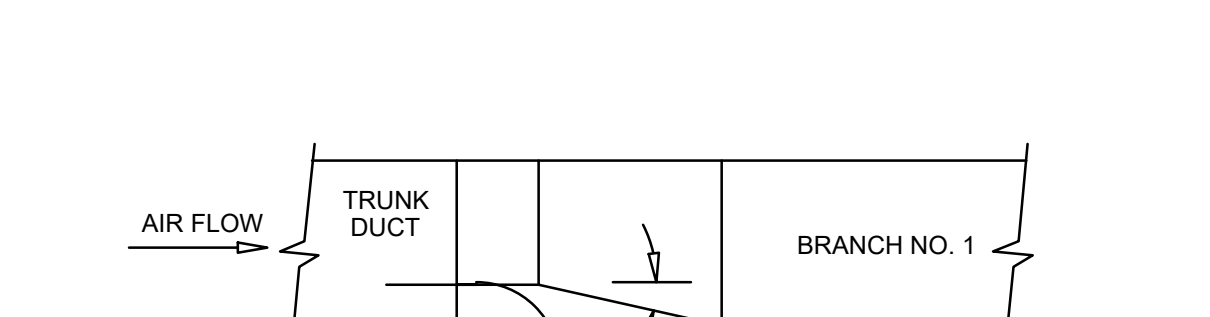
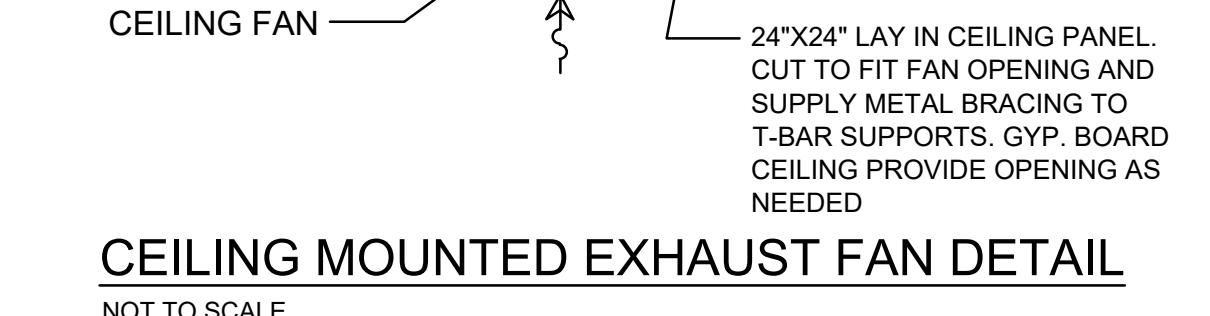
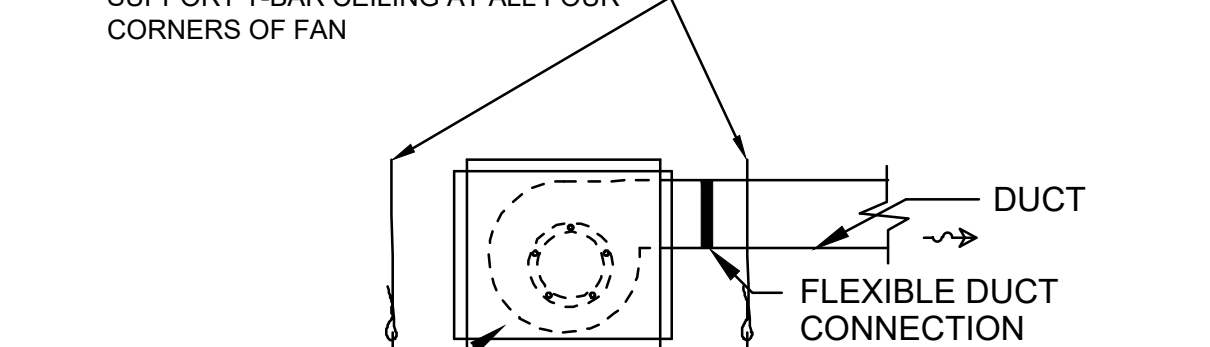
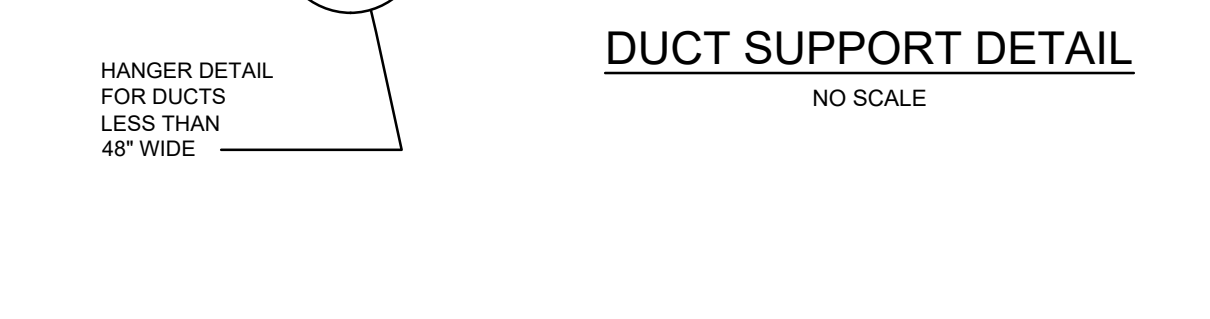
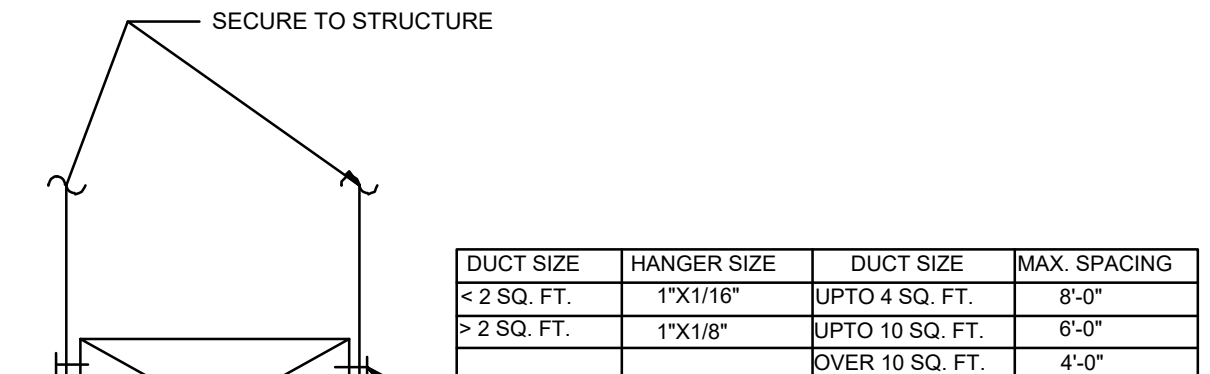
LINTEL PLAN AND DETAILS

DATE: 04/28/2021

HEATING VENTILATION AND AIR CONDITIONING SPECIFICATIONS

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2018 INTERNATIONAL MECHANICAL CODE, 2009 INTERNATIONAL ENERGY CONSERVATION CODE, 2015 EDITIONS OF THE INTERNATIONAL BUILDING AND FIRE CODES, AND APPLICABLE LOCAL ORDINANCES.
- THESE COMMON PROVISIONS APPLY TO ALL MECHANICAL WORK COVERED IN THIS CONTRACT, INCLUDING HVAC AND RELATED PIPING.
 - PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, MACHINERY, SUPERVISION, MANAGEMENT, AND ALL OTHER ITEMS NECESSARY FOR THE COMPLETE MECHANICAL SYSTEMS. THE ENTIRE MECHANICAL SYSTEMS SHALL BE INSTALLED, STARTED, TESTED, ADJUSTED AND TURNED OVER TO THE OWNER IN PROPER OPERATING CONDITION.
 - ALL LABOR, EQUIPMENT, MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE NATIONAL AND LOCAL CODES.
 - ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. WHERE THIS MAY CONFLICT WITH CODE REQUIREMENTS THE CODES SHALL HAVE PRECEDENCE.
 - THE CONTRACTOR AND/OR THE APPROPRIATE SUBCONTRACTOR SHALL CONCURRENTLY HOLD ALL REQUIRED LICENSES TO PERFORM THE WORK SHOWN AND SPECIFIED ON THESE DRAWINGS. CONTRACTOR SHALL FURNISH AND PAY FOR ALL PERMITS, FEES AND TAXES ASSOCIATED WITH HIS WORK.
 - THE CONTRACTOR SHALL GUARANTEE THAT ALL WORK SHALL BE FREE FROM DEFECTS TO THE SATISFACTION OF THE OWNER. WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AND SHALL REMEDY SUCH DEFECTS AND PAY FOR ANY DAMAGE RESULTING AT NO COST TO THE OWNER PROVIDED THAT DEFECTS ARE NOT DUE TO ABUSE BY THE OWNER, ACTS OF GOD, OR CIVIL UNREST.
 - UNDER NO CIRCUMSTANCES IS THE CONTRACTOR TO INSTALL ANY MATERIAL OR EQUIPMENT, FOREIGN OR DOMESTIC, WITH ASBESTOS CONTAINING MATERIAL.
- DIMENSIONS: DRAWINGS SHOULD BE INTERPRETED AS GENERAL LAYOUT AND ARRANGEMENT DRAWINGS. THE DRAWINGS ARE NOT INTENDED TO SHOW COMPLETE OR PRECISE MEASUREMENTS AND DETAILS OF THE BUILDING AND INSTALLATION IN EVERY RESPECT, AND THEY DO NOT INCLUDE ALL DETAILS OF MANUFACTURED EQUIPMENT, CONSTRUCTION, PIPING, DUCTWORK, ETC. MEASUREMENT FIGURES WRITTEN UPON THE DRAWINGS INDICATING DIMENSIONS SHALL BE USED INSTEAD OF SCALED MEASUREMENTS. NO SCALE MEASUREMENT TAKEN FROM A DRAWING SHALL BE RELIED UPON AS A DIMENSION FOR INSTALLATION PURPOSES. EXACT LOCATIONS AND MEASUREMENTS ARE TO BE DEFINED IN THE FIELD, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACCURACY AND USE IN CONSTRUCTION OF THE WORK.
- INTERFERENCES: THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES IN ORDER TO ELIMINATE INTERFERENCES. HE SHALL EXAMINE IN ADVANCE THE LOCATION OF ELECTRICAL SYSTEMS, DUCTS, PIPING, STRUCTURES, CONDUITS, AND OTHER EQUIPMENT AND COMPONENTS TO BE INSTALLED, AND PROPERLY COORDINATE THE INSTALLATION OF MECHANICAL WORK TO AVOID INTERFERENCES. THE ENGINEERS HAVE CONSIDERED EXISTING INTERFERENCES IN MAKING THE DRAWINGS, BUT IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MODIFY, OFFSET, OR OTHERWISE ACCOMMODATE ALL EQUIPMENT TO THE STRUCTURE, UTILITIES, AND OTHER EQUIPMENT.
- UTILITIES: UNLESS NOTED OTHERWISE THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL OF HIS UTILITY REQUIREMENTS.
- SUBSTITUTIONS: THE MATERIALS, PRODUCTS, AND EQUIPMENT DESCRIBED IN THE DOCUMENTS ESTABLISH A STANDARD OF REQUIRED FUNCTION, DIMENSION, APPEARANCE, SERVICEABILITY, AVAILABILITY OF SPARE PARTS AND QUALITY TO BE MET BY ANY PROPOSED SUBSTITUTION.
 - SUBSTITUTION OF EQUIPMENT, PRODUCTS, OR MATERIAL MUST BE APPROVED BY THE OWNER OR HIS REPRESENTATIVE. REVIEW OF PROPOSED SUBSTITUTIONS WILL BE MADE AS PART OF SUBMITTAL REVIEW AFTER THE PROJECT IS AWARDED.
 - THE SUBSTITUTION OF PRODUCTS, MATERIAL, OR EQUIPMENT WHICH REQUIRES REDESIGN OF ANY PORTION OF THE PACKAGE WILL BE PREPARED BY THE CONTRACTOR AT HIS EXPENSE AND APPROVED BY THE OWNER OR HIS REPRESENTATIVE.
- SUBMITTALS: THE CONTRACTOR SHALL PROVIDE SIX COPIES OF CERTIFIED DETAIL CATALOG CUT SHEETS OF ALL MATERIAL AND EQUIPMENT HE IS PROVIDING AS SUBMITTAL DOCUMENTATION TO THE OWNER.
 - THE CONTRACTOR SHALL PRESENT COMPLETE PERFORMANCE INFORMATION ON EACH PIECE OF EQUIPMENT ORGANIZED IN A MANNER RESEMBLING THAT ON THE CONTRACT DOCUMENTS. INCOMPLETE INFORMATION WILL NOT BE REVIEWED.
 - EACH SUBMITTAL SHALL INCLUDE CONTRACTORS SIGNED STATEMENT THAT THEY HAVE REVIEWED THE DATA AND FOUND IT TO MEET THE SPECIFICATIONS AND CAPACITIES CALLED FOR IN THESE DOCUMENTS.
 - THE CONTRACTOR SHALL RECEIVE WRITTEN APPROVAL FROM THE OWNER OR HIS AUTHORIZED REPRESENTATIVE PRIOR TO PURCHASE AND INSTALLATION OF MATERIAL AND EQUIPMENT.
- RECORD DRAWINGS AND MAINTENANCE MANUALS:
 - THE CONTRACTOR SHALL KEEP A RECORD SET OF DRAWINGS ON THE JOB AND SHALL, AS CONSTRUCTION PROGRESSES, RECORD ANY CHANGES WHERE CONSTRUCTION IS DIFFERENT FROM THE DESIGN DOCUMENTS. AT THE TIME OF FINAL INSPECTION, ONE SET OF RECORD DRAWINGS IN ADDITION TO ONE SET OF APPROVED SUBMITTAL DOCUMENTS SHALL BE TURNED OVER TO THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST ASSOCIATED WITH THESE DOCUMENTS.
 - AT THE TIME OF FINAL INSPECTION THE CONTRACTOR SHALL TURN OVER TO THE OWNER AN OPERATION AND MAINTENANCE MANUAL ENCOMPASSING ALL OF THE MECHANICAL COMPONENTS INSTALLED. THE MANUAL SHALL CLEARLY IDENTIFY THE CAPACITY OF THE EQUIPMENT INSTALLED, WIRING DIAGRAMS, CONTROL SEQUENCES.
 - THE MANUAL SHALL ALSO INCLUDE NAME, ADDRESS, AND TELEPHONE NUMBER OF SERVICE ORGANIZATIONS. THE MANUAL SHALL CLEARLY IDENTIFY SERVICE REQUIREMENTS, WARRANTY, AND RECOMMENDED SERVICE INTERVALS.
- PIPING: PIPING MATERIALS SHALL BE IN ACCORDANCE WITH THE PIPE SUPPORT TABLE THAT APPEARS IN THESE DOCUMENTS.
 - ALL PIPE SHALL BE ADAPTIVELY BRACED AND SUPPORTED. PIPE HANGERS AND SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF MSS SP-58. SUPPORT SPANS SHALL NOT EXCEED THOSE NOTED IN THE PIPE SUPPORT TABLE APPEARING IN THESE DOCUMENTS. IN ADDITION TO THE MAXIMUM ALLOWABLE SPACING BETWEEN SUPPORTS, HORIZONTAL PIPING SHALL BE SUPPORTED AT TERMINALS FROM ALL BRANCHES, AND AT EACH CHANGE OF DIRECTION.
 - OPEN PIPE ENDS SHALL BE COVERED AND FREE OF DEBRIS DURING CONSTRUCTION.
 - WHERE THE SIZE OF REFRIGERANT PIPING IS NOT NOTED ON THE DRAWINGS, THE PIPE SHALL BE SIZED BY THE CONTRACTOR IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS RECOMMENDATIONS BASED ON THE LIFT AND RUN OF THE SPECIFIC INSTALLATION. THIS SHALL INCLUDE ACCUMULATORS AND/OR SOLENOID VALVES, IF REQUIRED.
 - REFRIGERANT PIPE AND ASSOCIATED AIR CONDITIONING EQUIPMENT SHALL BE EVACUATED AND CHARGED IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS STANDARDS.
 - REFRIGERANT PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE WITH HYDRA ZORB CUSHIONED CLAMPS OR EQUAL. INSULATION AT PIPE SHALL BE COVERED WITH A PVC SLEEVE OR OTHER SUITABLE MATERIAL TO PREVENT THE CRUSHING OF THE INSULATION.
 - REFRIGERANT SUCTION PIPE SHALL BE INSULATED WITH 1" THICK ELASTOMERIC FOAM INSULATION.
 - PVC PIPING SHALL NOT BE INSTALLED IN ANY AREA USED AS A SUPPLY OR RETURN AIR PLenum.
- INSULATION: PIPE AND DUCTWORK SHALL BE INSULATED IN ACCORDANCE WITH THE PIPE SUPPORT TABLE AND THE DUCTWORK SECTION OF THESE SPECIFICATIONS.
 - INSULATION SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPMENT RATING OF 50 OR LESS IN ACCORDANCE WITH UL 723.
 - FIBERGLASS PIPE INSULATION SHALL BE EQUAL TO CERTAINEED SNAP ON FITTING.
 - FIBERGLASS INSULATION ON PIPE FITTINGS SHALL BE MOLDED FIBERGLASS INSULATION COVER WITH WHITE PVC JACKET.
 - FIBERGLASS DUCTWRAP SHALL HAVE A FACTORY APPLIED FSK OR FOIL VAPOR BARRIER AND EQUAL TO OWENS CORNING TYPE 75. THICKNESS SHALL BE AS DESCRIBED UNDER DUCTWORK SECTION.
 - FIBERGLASS DUCT LINER SHALL BE EQUAL TO CERTAINEED TOUGHGARD R. LINER SHALL BE TREATED WITH AN EPA RECOGNIZED ANTI-MICROBIAL AGENT AND SHALL NOT SUPPORT FUNGAL OR BACTERIAL GROWTH IN ACCORDANCE WITH ASTM G 21 AND G 22 TEST METHODS. LINER SHALL BE CLEANABLE IN ACCORDANCE WITH NAIMA METHODS. THE LINER SHALL HAVE A TOUGH COMPOSITE SURFACE AND SHALL BE SUITABLE FOR VELOCITIES UP TO 8000 FPM. UNLESS NOTED OTHERWISE FIBERGLASS DUCT LINER SHALL BE 1" THICK.
 - INSULATED PIPE SHALL BE PROTECTED FROM DAMAGE OR COMPRESSION FROM HANGERS AT THE POINT OF SUPPORT USING HALF SLEEVE SHIELDS EQUAL TO GRINNEL FIG. 167 OR THE USE OF PRE-INSULATED PIPE SADDLES EQUAL TO ANVAL 260 ISS.
 - ARMALFLEX INSULATION SHALL BE EQUAL TO ARMSTRONGS FLEXELAST ELASTOMERIC FOAM INSULATION APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. OUTSIDE INSTALLATIONS SHALL RECEIVE TWO COATS OF WB ARMALFLEX FINISH. NEW DUCTWORK.
 - UNLESS OTHERWISE NOTED ALL DUCT CONSTRUCTION AND SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS, LATEST EDITION, UL 181, AND LOCAL CODES.
 - SUPPLY AIR, OUTSIDE AIR, AND RETURN AIR DUCTWORK TO AIR HANDLING EQUIPMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF DUCT RATED FOR 1" W.G. DUCT MATERIAL SHALL BE LOCK FORMING QUALITY GALVANIZED STEEL, MINIMUM 24 GAUGE.
 - DUCTS SHALL BE SEALED IN THE LONGITUDINAL AND TRANSVERSE DIRECTION. TAPES AND MASTICS USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A OR 181B-M. DUCT CONNECTIONS TO FLANGES ON AIR DISTRIBUTION EQUIPMENT SHALL BE MECHANICALLY FASTENED AND SEALED. UNLISTED DUCT TAPE IS NOT PERMITTED TO BE USED AS A SEALANT.
 - DUCTWORK SHALL BE INSULATED AS DESCRIBED BELOW. INSULATION MATERIALS INSIDE THE BUILDING ENVELOPE OR IN THE AIRSTREAM, INCLUDING LININGS, COVERINGS, AND ADHESIVES, SHALL HAVE A FLAME SPREAD RATING NOT OVER 25 AND A SMOKE DEVELOPED RATING NOT OVER 50.
 - SUPPLY AND RETURN DUCT INSTALLED IN UNINSULATED ATTIC AND CRAWL SPACE AREAS SHALL BE INSULATED WITH FIBERGLASS DUCTWRAP WITH AN INSTALLED THICKNESS OF 2" (88 MIN). OUTSIDE AIR DUCT AND SUPPLY MTD DUCT INSTALLED ABOVE SUSPENDED CEILINGS SHALL BE EXTERNALLY INSULATED WITH 1 1/2" THICK FIBERGLASS DUCT WRAP. THE INSULATION SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
 - DUCT SIZES NOTED ON THE DRAWINGS ARE BASED ON "FREE FLOW AREA". SHEET METAL SIZES WILL BE LARGER WHERE DUCT LINER IS SPECIFIED TO ACCOMMODATE THE LINER.
 - MITERED SQUARE ELBOWS SHALL BE EQUIPPED WITH SINGLE THICKNESS TURNING VANES.
 - INSULATED FLEXIBLE DUCTWORK SHALL BE CONSTRUCTED OF AN INNER AIR BARRIER OVER A COILED STEEL WIRE STRUCTURE COVERED WITH INSULATION EQUAL TO R-5 AND A FOIL OR VAPOR BARRIER. INSULATED FLEXIBLE DUCTWORK SHALL CONFORM TO THE REQUIREMENTS OF UL 181, CLASS 1 AIR DUCT. LENGTH SHALL NOT EXCEED 10 FEET. FLEXIBLE DUCT SHALL BE SUPPORTED WITH 1 1/2" WIDE GALVANIZED STRIPS OR 2" WIDE FABRIC STRIPS. SPACING INTERVALS FOR FLEXIBLE DUCT SUPPORTS SHALL NOT EXCEED 64" AND DROOP BETWEEN SUPPORTS SHALL NOT EXCEED 2.0". FLEXIBLE DUCT SHALL BE ROUTED SUCH THAT FULL FLOW AREA IS MAINTAINED AND TURNS HAVE A MINIMUM RADIUS OF 2 TIMES THE DUCT DIAMETER.
 - RECTANGULAR DAMPERS NOTED ON THE DRAWINGS AS "MBO" SHALL BE OPPOSED BLADE BALANCING DAMPERS EQUAL TO RUSKIN MD-35. ROUND DAMPERS NOTED AS "MBO" SHALL BE EQUAL TO RUSKIN COR-25. MBO DAMPERS SHALL BE INSTALLED WITH LOCKING MANUAL OPERATOR.
 - FLEXIBLE DUCT TAKE-OFFS FROM RECTANGULAR DUCT SHALL BE SPIN IN TAPS WITH SINGLE BLADE DAMPER. TAKE-OFF SHALL NOT HAVE SCOPES.
 - FLEXIBLE DUCT CONNECTORS SHALL BE EQUAL TO VENTFABRICS "VENTGLAS" FOR INTERIOR APPLICATIONS AND VENTFABRICS "VENTLON" WHERE EXPOSED TO WEATHER AND SHALL BE INSTALLED AT THE INLET AND OUTLET OF ALL AIR HANDLERS AND ROOF TOP AIR CONDITIONING UNITS. THE FLEXIBLE CONNECTOR SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
 - DUCTS SHALL BE ADEQUATELY SUPPORTED. WHERE METAL DUCTS ARE SUPPORTED WITH METAL STRAPS THE STRAPS SHALL BE A MINIMUM OF 1" WIDE AND OF THE SAME GAGE OR HEAVIER THAN THE DUCT SUPPORTED. METAL DUCT SHALL BE SUPPORTED WITH APPROVED HANGERS AT INTERVALS NOT EXCEEDING 10 FEET. FLEXIBLE DUCT SHALL BE SUPPORTED WITH 1 1/2" WIDE GALVANIZED STRIPS OR 2" WIDE FABRIC STRIPS. SPACING INTERVALS FOR FLEXIBLE DUCT SUPPORTS SHALL NOT EXCEED 64" MAXIMUM PERMISSIBLE SAG IS 1/4" PER FOOT.
- EQUIPMENT MISCELLANEOUS:
 - LABELS: ALL EQUIPMENT SHALL HAVE A PERMANENTLY AFFIXED LABEL FROM THE MANUFACTURER. LABEL SHALL INCLUDE THE EQUIPMENT'S ELECTRICAL REQUIREMENTS, MANUFACTURER AND MODEL NUMBER OF THE EQUIPMENT, HEATING FUEL INPUT, BTU RATING, AND A SEAL INDICATING APPROVAL BY AN APPROVED TESTING AGENCY.
 - REFRIGERANT ACCESS PORTS SHALL BE FITTED WITH LOCKING-TYPE TAMPER RESISTANT CAPS OR OTHER ADJUSTED BE SECURED AGAINST UNAUTHORIZED ACCESS.

- CONTROL COMPONENTS AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
- CONTROL WIRING INSTALLED EXTERIOR TO THE BUILDING ENVELOPE SHALL BE INSTALLED IN WEATHER TIGHT GALVANIZED CONDUIT.
- CONTROL WIRING INSTALLED INSIDE THE BUILDING WITHIN EIGHT FEET OF FINISHED FLOOR SHALL BE INSTALLED IN CONDUIT OR ROUTED INSIDE WALLS.
- CONTROL WIRING INSTALLED IN AIR PLENUMS SHALL HAVE INSULATION SUITABLE FOR PLENUM INSTALLATION IN ACCORDANCE WITH NEPA REQUIREMENTS.
- WALL MOUNTED THERMOSTATS OR SENSORS SHALL BE INSTALLED 4' 0" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED ON DRAWINGS. LOCATION OF WALL MOUNTED DEVICES SHALL BE COORDINATED WITH OTHER TRADES FOR A NEAT APPEARANCE.
- CLEANING:
 - CONTRACTOR SHALL REMOVE ANY DEBRIS OR LOOSE MATERIALS FROM INSIDE THE DUCTWORK AND AIR HANDLING EQUIPMENT PRIOR TO START-UP.
 - CONTRACTOR SHALL CLEAN THE EXTERIOR OF ALL EXPOSED DUCTS, FABRICATION MARKS AND MARKINGS SHALL BE REMOVED.
 - CONTRACTOR SHALL INSTALL FILTERS WHERE CALLED FOR ON THE PLANS PRIOR TO START-UP AND CLEANING. CONTRACTOR SHALL REPLACE FILTERS DURING THE CLEANING PROCESS AS REQUIRED TO CLEAN AND PROTECT THE EQUIPMENT AND SYSTEM. FILTERS AT THE TIME OF TURNOVER OF THE SYSTEM TO THE OWNER SHALL BE NEW AND CLEAN.
- START-UP:
 - ALL NEW PIPING SHALL BE TESTED AT 1.5 TIMES NORMAL WORKING PRESSURE. PIPES MAY BE TESTED HYDROSTATICALLY, WITH COMPRESSED AIR, OR WITH NITROGEN. CAST IRON AND PLASTIC PIPING SHALL BE TESTED HYDROSTATICALLY. REFRIGERANT PIPING SHALL BE TESTED WITH DRY NITROGEN. ALL TESTING SHALL BE DONE IN ACCORDANCE WITH CODE REQUIREMENTS. ALL LEAKS SHALL BE REPAIRED PRIOR TO PUTTING THE PIPING INTO SERVICE.
 - PIPEWORK SHALL BE CYCLED THROUGH ALL HEATING, COOLING, AND VENTILATION CYCLES TO INSURE PROPER OPERATION OF ALL COMPONENTS AND CONTROLS PRIOR TO TEST AND BALANCE.
 - DESIRED OR FIELD DETERMINED SET POINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS, AT CONTROL DEVICES, OR IN DIGITAL PROGRAMMING COMMENTS.
- TEST AND BALANCE:
 - ACTUAL AIRFLOW VALUES SHALL BE SET TO WITHIN 10% OF THE DESIGN VALUES NOTED ON THE DRAWINGS.
 - THE FINAL SUPPLY, EXHAUST, AND RETURN AIRFLOW SHALL BE TESTED, ADJUSTED, BALANCED, AND RECORDED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTERS 4 AND 8 OF THE IMC AND PROCEDURES OF THE NEBB OR AABC. THIS SHALL INCLUDE MAXIMUM AND MINIMUM VALUES WHERE NOTED ON THE DRAWINGS.
 - RECORD VOLTAGE, AMPERAGE, AND TOTAL AIRFLOW ON ALL AIR CONDITIONING AND HEATING EQUIPMENT. ADJUST FAN SPEED AS REQUIRED TO MEET MINIMUM AIRFLOW REQUIREMENTS.
 - BALANCE SYSTEMS SHALL INCLUDE ASSISTING THE MECHANICAL AND CONTROLS CONTRACTORS IN SETTING THE MINIMUM AND MAXIMUM POSITIONS ON OUTSIDE AIR DAMPERS) TO ACHIEVE THE AIRFLOWS SPECIFIED ON THE SCHEDULE.
 - THE TEST AND BALANCE PERSONNEL SHALL ENGAGEWORK TO FIRST REDUCE THROTTLING LOSSES THEN FAN SPEED OR IMPELLER SIZE SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS.
 - CHECK AND RECORD OPERATING REFRIGERANT PRESSURES ON SPLIT SYSTEM AIR CONDITIONING EQUIPMENT OR HEAT PUMPS.
 - RECORDED DATA SHALL REPRESENT ACTUALLY MEASURED OR OBSERVED CONDITION, SET AND LOCK MEMORY STOPS, ADJUST AIR SYSTEMS TO PLUS OR MINUS 10 PERCENT FROM FIGURES INDICATED.
 - PROVIDE BALANCE REPORT IN SOFT COVER, LETTER SIZE, 3-RING BINDER, WITH INDEX PAGE AND TABS, AND COVER IDENTIFICATION. INCLUDE REDUCED SCALE DRAWINGS WITH AIR OUTLETS AND EQUIPMENT IDENTIFIED TO CORRESPOND WITH DATA SHEETS. DATA SHEETS SHALL BE IN THE FORMAT OF THE AABC OR NEBB.
 - OWNER RESERVES THE RIGHT TO HAVE BALANCE WORK SPOT-CHECKED BY AABC OR NEBB REGISTERED BALANCING FIRM. IF MORE THAN 10% OF THE GRILLES ARE FOUND TO DEVIATE FROM THE LEVELS NOTED IN THE REPORT THE CONTRACTOR WILL REBALANCE THE SYSTEM IN ITS ENTIRETY AT NO ADDITIONAL COST TO THE OWNER.
- ACCESS:
 - STABILIZE EXISTING ATTIC WALKBOARDS TO ALL HVAC EQUIPMENT.
 - REMOVE NON-FUNCTIONAL MATERIAL (LUMBER, STRAPS, NAILS, ETC.) LEFT FROM PREVIOUS (AND CURRENT) MODIFICATIONS TO THE ATTIC SPACE.
 - ADD PROTECTIVE CROSSING STRUCTURE WHERE WALKWAYS CROSS DUCTWORK THAT IS TOO LOW TO CRAWL UNDER.



MARK	MFR.	MODEL NUMBER	AREA SERVED	INLET DIAMETER (IN.)	MODULE SIZE (IN.)	FRAME STYLE	DAMPER	COOLING SENS. LOAD	MIN. CFM	MAX. CFM	COMMENTS
CVAV-01	ACUTHERM	TFC-12	STORAGE/IT ROOM	12	24"x24"	4-WAY	YES	4.8	50	350	A

COMMENTS:
A. PROVIDE THERMOSTAT CONTROL.

MARK	TYPE	BASIS OF DESIGN		THROAT SIZE W x H	SIZE OF GRILLE W x H	MIN. FREE AREA SQ. FT.	CFM	MAX. Δ P	COMMENTS
		MFG.	MODEL NO.						
L-01	INTAKE	GREENHECK	ESD-635	16x12	18x14	0.6	530	0.12	A,B,C

COMMENTS:
A. BIRD SCREEN
B. STEEL
C. BAROMETRIC DAMPER

MARK	AREA SERVED	TYPE	MFG	MODEL NO.	CAPACITY INFO.		CONTROL	FAN ELEC.		COMMENTS	
					CFM	TSP		WATTS	VOLTS		
EF-01	RESTROOM 107A	CEILING MTD	GREENHECK	SP-A125	100	0.27	0.7	SWITCH	20	115/60/1	-
EF-02	RESTROOM 105	CEILING MTD	GREENHECK	SP-A125	100	0.27	0.7	SWITCH	20	115/60/1	-
EF-03	RESTROOM 134	CEILING MTD	GREENHECK	SP-A125	100	0.27	0.7	SWITCH	20	115/60/1	-
EF-04	RESTROOM 128	CEILING MTD	GREENHECK	SP-A125	100	0.27	0.7	SWITCH	20	115/60/1	-
EF-05	JAN CLOSET 122	CEILING MTD	GREENHECK	SP-A125	100	0.27	0.7	SWITCH	20	115/60/1	-
EF-06	RESTROOM 107B	CEILING MTD	GREENHECK	SP-A125	100	0.27	0.7	SWITCH	20	115/60/1	-
EF-07	RESTROOM 118F	CEILING MTD	GREENHECK	SP-A125	100	0.27	0.7	SWITCH	20	115/60/1	-

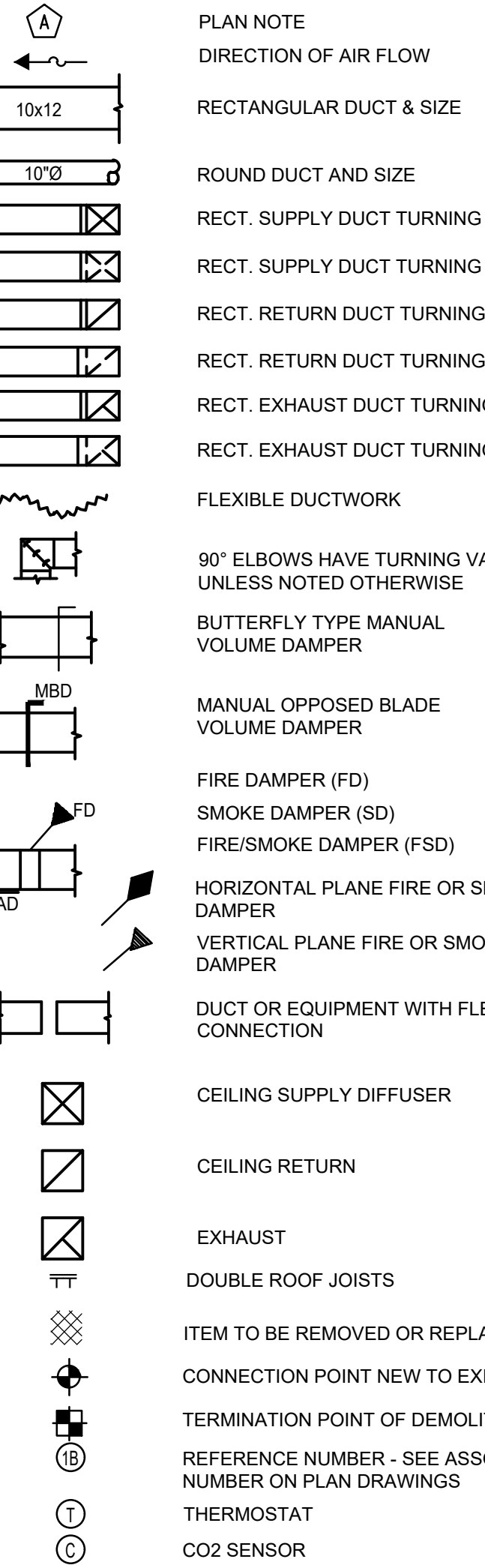
MARK	DUTY	MATERIAL	DIFFUSER CRITERIA			REGISTER AND GRILLE CRITERIA					EQUAL TO	COMMENTS			
			NECK SIZE (IN.)	MODULE SIZE (IN.)	FRAME STYLE	DAMPER	UNIT SIZE (IN.)	PATTERN / DEFLECTION	BLADE SPACING (IN.)	BORDER STYLE			DAMPER	MANUFACTURER	MODEL
SD-01	CEILING SUPPLY	STEEL	SEE DWG.	24x24	4-WAY	YES	----	----	----	----	----	----	NAILOR	UNI	A
SD-02	CEILING SUPPLY	STEEL	SEE DWG.	12"x12"	1-WAY	YES	----	----	----	----	----	----	NAILOR	UNI	A
RG-01	CEILING FILTER RETURN	STEEL	----	----	----	----	24x24	PERFORATED	N/A	SEE ARCH	YES	----	NAILOR	61FP	A,B
RG-02	CEILING TRANSFER GRILLE	STEEL	----	----	----	----	SEE DWG.	PERFORATED	N/A	SEE ARCH	NO	----	NAILOR	61FR	A,C

COMMENTS:
A. COORDINATE FACTORY FINISH WITH ARCHITECT.
B. PROVIDE FILTER FRAME AND INSTALL 20"x20"x1" THICK STANDARD FILTER.
C. PROVIDE SQUARE TO ROUND TRANSITION.

MARK	MANUFACTURER	BASIS OF DESIGN	CAPACITY INFORMATION			COOLING COIL			HEATING @ 47°F AMBIENT			INDOOR ELECTRICAL			OUTDOOR ELECTRICAL			COMMENTS					
			INDOOR UNIT	OUTDOOR UNIT	AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE (IN.)	FAN MOTOR (HP)	ENTERING AIR TEMPERATURE (DB (F) / WB (F))	LEAVING AIR TEMPERATURE (DB (F) / WB (F))	TOTAL MINIMUM COOLING (MBH)	TOTAL SENSIBLE COOLING (MBH)	TOTAL MINIMUM HEATING (MBH)	MINIMUM CIRCUIT AMPS (MCA)	MAXIMUM OVERCURRENT PROTECTION (MOP)	VOLTS/ PHASE/ HERTZ	MINIMUM CIRCUIT AMPS (MCA)	MAXIMUM OVERCURRENT PROTECTION (MOP)		VOLTS/ PHASE/ HERTZ				
GFCC-01/01-01	TRANE	TUD100/TCX065	2TB2090	1630	170	0.65	1/2	77.2	65.0	58.0	56.9	38.5	32.4	25.7	65.0	52.0	115/1	11.0	15	208/1	38.0	60	A,B,C
GFCC-02/01-02	TRANE	TUD080/TCX024	2TB2024	765	85	0.40	1/2	77.5	65.5	58.0	56.9	17.7	14.1	10.6	39.0	31.2	115/1	8.0	15	208/1	11.0	15	A,B,C
GFCC-03/01-03	TRANE	TUD100/TCX065	2TB2090	1425	60	0.65	1/2	76.4	64.1	58.0	56.8	19.8	18.0	12.2	65.0	52.0	115/1	11.0	15	208/1	38.0	60	A,B,C
GFCC-04/01-04	TRANE	TUD100/TCX065	2TB2090	1200	280	0.65	1/2	78.5	66.8	58.0	57.0	45.0	32.7	27.4	65.0	52.0	115/1	11.0	15	208/1	38.0	60	A,B,C
GFCC-05/01-05	TRANE	TUD100/TCX065	2TB2090	600	215	0.65	1/2	79.2	68.7	58.0	56.9	34.6	26.0	15.4	65.0	52.0	115/1	11.0	15	208/1	38.0	60	A,B,C
GFCC-06/01-06	TRANE	TUD080/TCX061	2TB2048	1055	235	0.30	1/2	79.5	67.9	58.0	57.0	35.4	23.9	18.4	52.0	41.6	115/1	13.0	15	208/1	26.0	45	A,B,C
GFCC-07/01-07	TRANE	TUD080/TCX037	2TB2036	905	110	0.75	1/2	77.7	65.5	58.0	56.9	22.4	18.1	14.7	52.0	41.6	115/1	13.0	15	208/1	21.0	35	A,B,C
GFCC-08/01-08	TRANE	TUD080/TCX061	2TB2048	1055	215	0.30	1/2	79.5	67.9	58.0	57.0	33.1	22.3	17.2	52.0	41.6	115/1	13.0	15	208/1	26.0	45	A,B,C

COMMENTS:
A. FURNISH AND INSTALL NEW THERMOSTATS AT INDICATED LOCATIONS.
B. VERIFY AND TEST POWER WIRING, OVERCURRENT PROTECTION, AND DISCONNECTS.
C. PERFORM FULL SERVICE TO HVAC UNITS AS FOLLOWS:
1. CLEAN AND RINSE EVAPORATOR AND CONDENSER COILS
2. BRUSH CLEAN AND VACUUM EVAPORATOR AND CONDENSER FANS
3. CLEAN AND FLUSH CONDENSATE PANS AND DRAIN LINES
4. VACUUM CLEAN CONTROL PANELS, FAN MOTORS, AND EQUIPMENT CASINGS.
5. RUN-TEST REFRIGERATION CIRCUITS AND REPAIR LEAKS. ASSURE THAT SYSTEMS ARE FULLY CHARGED WITH PROPER REFRIGERANT.
6. BRUSH AND VACUUM CLEAN GAS-FIRED BURNERS, HEAT EXCHANGERS AND FLUES.
7. INSTALL NEW FLUES, ROOF JACKS, AND FLUE CAPS.

MECHANICAL SYMBOLS



MECHANICAL ABBREVIATIONS

PLAN NOTE	AD	ACCESS DOOR
DIRECTION OF AIR FLOW	ADJ	ADJUSTABLE
RECTANGULAR DUCT & SIZE	APPROX	ABOVE FINISHED FLOOR
	AH or AHU	AIR HANDLING UNIT
	C	COMMON
	CD	CONDENSATE DRAIN
	CFM	CONDENSATE DRAIN
	CLG	CEILING
	COND	CONDENSATE
	CTWR	COOLING TOWER WATER RETURN
	CTWS	COOLING TOWER WATER SUPPLY
	CU	CONDENSER UNIT
	DIA	DIAMETER
	DN	DOWN
	DWG	DRAWING
	DX	DIRECT EXPANSION
	EF	EXHAUST FAN
	ENT	ENTERING
	EXH	EXHAUST
	EXIST	EXISTING
	F	DEGREES FAHRENHEIT
	FD	FIRE DAMPER
	FL	FLOOR
	FLEX	FLEXIBLE
	FT	FEET
	OPM	GALLONS PER MIN.
	HETO	HIGH EFFICIENCY TAKE-OFF
	HP	HORSE POWER
	LVG	LEAVING
	LBS	POUNDS
	MAX	MAXIMUM
	MECH	MECHANICAL
	MFR	MANUFACTURER
	MIN	MINIMUM
	NTS	NOT TO SCALE
	CA	OUTSIDE AIR
	PSIG	PRESSURE PER SQUARE

Branch Panel: MDP

Location: Space 51
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 800 A
MCB Rating: 800 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1										2	
3	PANEL B1 (TO BE REMOVED)	500 A	3		0 VA	0 VA		3	225 A	Spare	4
5		--	--								6
7		--	--	2191...	0 VA						8
9	PANEL MEP	400 A	3		2042...	0 VA				Space	10
11		--	--							Space	12
13		--	--	9389...	0 VA					Space	14
15	PANEL L2	225 A	3		1058...	0 VA				Space	16
17		--	--							Space	18
19		--	--	0 VA						Space	20
21		--	--							Space	22
23		--	--							Space	24
25		--	--							Space	26
27		--	--							Space	28
29		--	--							Space	30
31		--	--							Space	32
33		--	--							Space	34
35		--	--							Space	36
37		--	--							Space	38
39		--	--							Space	40
41		--	--							Space	42
Total Load:				31302 VA	31005 VA	27205 VA					
Total Amps:				266 A	263 A	227 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Spare	89512 VA	100.00%	89512 VA	
				Total Conn. Load: 89512 VA
				Total Est. Demand: 89512 VA
				Total Conn.: 248 A
				Total Est. Demand: 248 A

Notes:

Branch Panel: MEP

Location: Space 51
Supply From: MDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT		
1	CU-1 (EXISTING)	60 A	2	3952...	1265...			1	15 A	GF-01 (EXISTING)	2	
3		--	--			3952... 920 VA			1	15 A	GF-02 (EXISTING)	4
5	CU-2 (EXISTING)	15 A	2			1144... 1265...			1	15 A	GF-03 (EXISTING)	6
7		--	--	1144...	1265...				1	15 A	GF-04 (EXISTING)	8
9	CU-3 (EXISTING)	60 A	2			3952... 1265...			1	20 A	GF-05 (EXISTING)	10
11		--	--						1	20 A	GF-06 (EXISTING)	12
13	CU-4 (EXISTING)	60 A	2	3952...	1495...				1	20 A	GF-07 (EXISTING)	14
15		--	--			3952... 1495...			1	20 A	GF-08 (EXISTING)	16
17	CU-5 (EXISTING)	60 A	2			3952... 180 VA			1	20 A	Receptacle - HW Circulation Pump	18
19		--	--	3952...								20
21	CU-6 (EXISTING)	45 A	2			2704...						22
23		--	--									24
25	CU-7 (EXISTING)	35 A	2	2184...								26
27		--	--			2184...						28
29	CU-8 (EXISTING)	45 A	2			2704...						30
31		--	--	2704...								32
33		--	--									34
35		--	--									36
37		--	--									38
39		--	--									40
41		--	--									42
Total Load:				21913 VA	20424 VA	17396 VA						
Total Amps:				186 A	174 A	145 A						

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Receptacle	180 VA	100.00%	180 VA	
Power	59553 VA	100.00%	59553 VA	
				Total Conn. Load: 59733 VA
				Total Est. Demand: 59733 VA
				Total Conn.: 166 A
				Total Est. Demand: 166 A

Notes:

Branch Panel: L2

Location: Space 51
Supply From: MDP
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MLO
Mains Rating: 225 A
MCB Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	Receptacle - 106C, 106B, 106	20 A	1	900 VA	614 VA			1	20 A	Lighting - 106, 106A, B, C, D, E, F, G, 107A, EF-01	2
3	Receptacle - 106A, 106G	20 A	1		720 VA	466 VA		1	20 A	Lighting - 107, 107C, EF-06	4
5	Receptacle - CONF. RM (103) STOR (104)	20 A	1			1260...	499 VA	1	20 A	Lighting - 121D, 121, 121C, 121A, 121E, 121F...	6
7	Receptacle - ASSEMBLY 107	20 A	1	1440...	1036...			1	20 A	Lighting - 116, 117, 119, 122, 123, 124, 125, 126, 128...	8
9	Receptacle - 106, 106D, 106E, 106F, 106G	20 A	1		1260...	766 VA		1	20 A	Lighting - 109, 114...	10
11	Receptacle - 111, 112	20 A	1			1080...	780 VA	1	20 A	Lighting - 118, 113, 112, 111, 110, 108, 101	12
13	Receptacle - 121D, 121B, 120, 107C	20 A	1	900 VA	543 VA			1	20 A	Lighting - 102, 103, 104, 105, 137, 138, EF-02, 03	14
15	Receptacle - 121E, 121, 121C, 121A	20 A	1		1440...	1200...		1	20 A	Receptacle - Refrigerator (Break Room 123)	16
17	Receptacle - 116, 122	20 A	1			720 VA	1200...	1	20 A	Receptacle - Microwave (Break Room 123)	18
19	Receptacle - 118, 119, 123, 128	20 A	1	1260...	500 VA			1	20 A	Receptacle - Copier (Work Room 106D)	20
21	Receptacle - 124, 125, 126, 127	20 A	1		1440...	500 VA		1	20 A	EWG (Circulation 109)	22
23	Receptacle - 108, 110, 113	20 A	1			1080...	720 VA	1	20 A	Receptacle - Plumbing Fixtures	24
25	Receptacle - 131, 133, 135	20 A	1	900 VA	800 VA			1	20 A	Junction Box - Attic Lights	26
27	Receptacle - 109, 122	20 A	1		900 VA	500 VA		1	20 A	Receptacle - Copier (Work Room 119)	28
29	Receptacle - 115, 130, 114, 132, 134	20 A	1			1620...	800 VA	1	20 A	Junction Box - Door Access Card Reader	30
31	Receptacle - PUBLIC LOBBY (101)	20 A	1	360 VA	144 VA			1	20 A	Lighting - Exterior Covered Entry	32
33	Receptacle - 102, 138, 136	20 A	1		1260...	72 VA		1	20 A	Exterior Lighting - West side	34
35	Exterior Lighting - East side	20 A	1			54 VA	0 VA	1	20 A	Spare	36
37	Other	20 A	1	0 VA	0 VA			1	20 A	Spare	38
39	Spare	20 A	1		0 VA	0 VA		1	20 A	Spare	40
41	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	42
Total Load:				9389 VA	10521 VA	9809 VA					
Total Amps:				78 A	88 A	82 A					

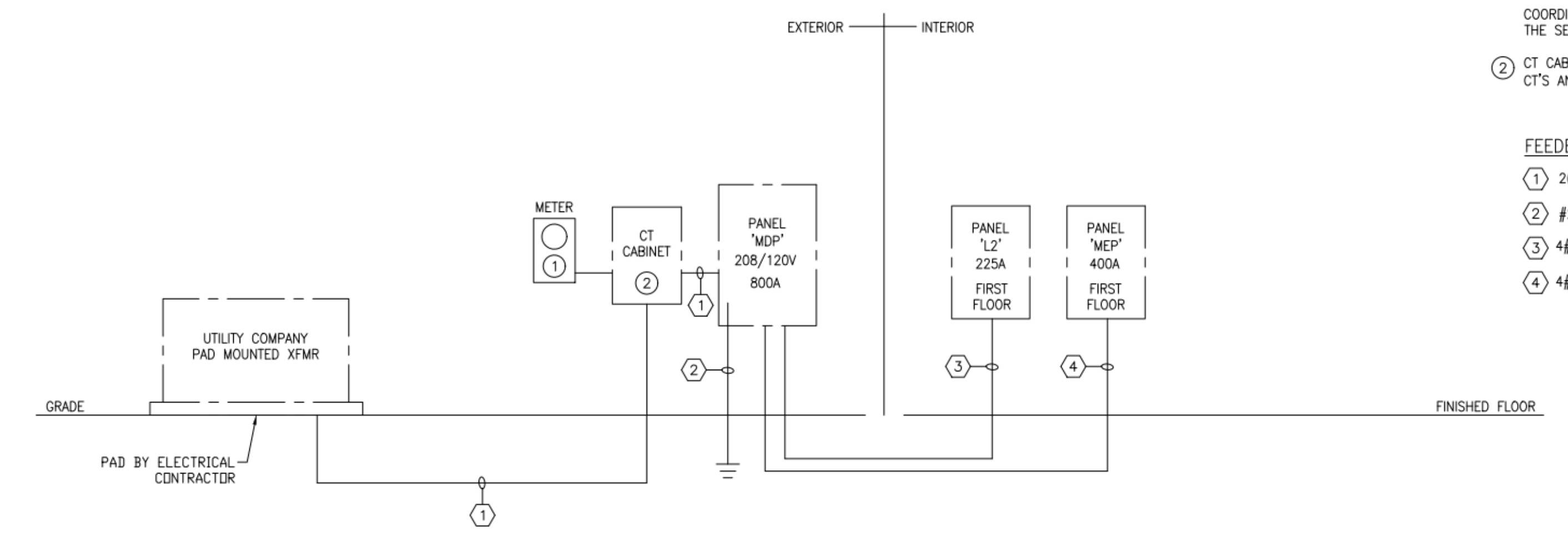
Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Cooling	120 VA	100.00%	120 VA	
Lighting - Dwelling Unit	381 VA	100.00%	381 VA	
Other	0 VA	0.00%	0 VA	
Receptacle	23160 VA	71.59%	16580 VA	
Power	1600 VA	100.00%	1600 VA	
Lighting	4500 VA	100.00%	4500 VA	
				Total Conn. Load: 29718 VA
				Total Est. Demand: 23139 VA
				Total Conn.: 82 A
				Total Est. Demand: 64 A

Notes:

- RISER NOTES:**
- ELECTRICAL CONTRACTOR SHALL PROVIDE METER BASE. POWER COMPANY SHALL PROVIDE AND INSTALL METER. COORDINATE WITH THE POWER COMPANY TO ENSURE THAT THE SERVICE ENTRANCE IS PROPERLY LOCATED AND MADE.
 - CT CABINET BY ELECTRICAL CONTRACTOR. CT'S AND FINAL POWER CONNECTIONS BY POWER COMPANY.

- FEEDER SCHEDULE**
- 2(4-600KCM, 3 1/2" C)
 - #2/0 GND PER N.E.C
 - 4#4/0, 1#4G, 2 1/2" C
 - 4#600KCM, 1#3G, 3 1/2" C



Riser Diagram
3/16" = 1'-0"