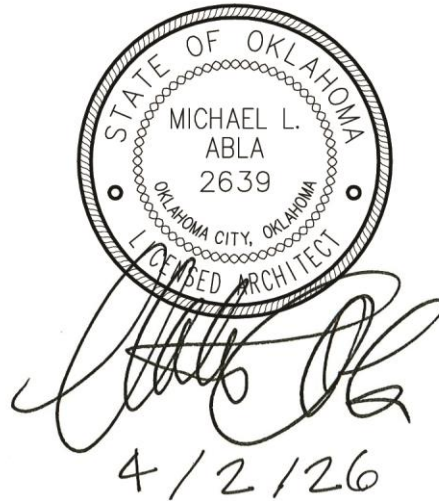


**MOORE PUBLIC SCHOOLS -
OLD SCHOOL REPLACEMENT**

Moore Public Schools - Moore, Oklahoma
AGP - Moore, Oklahoma

ADDENDUM NO. 1

April 2, 2026



This addendum applicable to work designated herein, shall be understood to be an Addendum, and as such shall be included in the Contract Agreement.

Receipt of this Addendum shall be acknowledged by the Construction Management Firm notifying this office in writing, and by any applicable subcontractor to the CM.

This addendum consists of three (3) pages with attachments of forty-four (44) 8.5"x11" pages and twenty-eight (28) 24"x36" sheets.

A. Drawings:

General

No changes.

Civil

Refer to attached revised drawing C3.00.

- 1, Notice: Construction Manager and all applicable Subcontractor(s) shall use any means necessary (i.e. potholing, etc.) to locate all underground utilities at the construction site prior to starting demolish/construction especially at the courtyard area between the buildings. Utilities include – but, are not limited to – electrical main to existing transformer, existing sanitary sewer from existing cafeteria, etc.

Structural

Refer to attachments.

Architectural

1. Sheet A101, Detail #1, Life Safety Plan – Second Floor: revised floor plan areas for display / trophy cases as per attached drawing.

2. Sheet A102, Detail #1, First Floor Plan and Sheet A103, Detail #1, Second Floor Plan: revise rooms / areas as noted to allow for installation of display / trophy cases. Refer to attached revised drawings.
3. Sheet A102, Detail #1, First Floor Plan: added coiling tornado Door #105 between Room #121 and the exterior. Refer to attached revised drawing.
4. Sheet A104, Detail #1, Reflected Ceiling Plan – First Floor and Sheet A105, Detail #1, Reflected Ceiling Plan – Second Floor: revise rooms / areas as noted to allow for installation of display / trophy cases. Refer to attached revised drawings.
5. Sheet A107, Details #2, Enlarged Floor Plan Room #101 & 102: revise rooms / areas as noted to allow for installation of display / trophy cases. Refer to attached revised drawings.
6. Sheet A107, Detail #3, South Wall Room #101: revised vertical detail reference number as indicated. Refer to attached revised drawing.
7. Sheet A109, Detail #1, First Floor Equipment Plan and Sheet A110, Detail #1, Second Floor Equipment Plan: revise rooms / areas as noted to allow for installation of display / trophy cases. Refer to attached revised drawings.
8. Sheet A201, Exterior Elevations / Sheet A202, Exterior Elevations-Materials / Sheet A204, Detail #1, North Elevation / Sheet A301, Detail #3, Building Section: revised exterior elevations / building section to reflect changes to exterior stairs. Refer to attached revised drawings.
9. Sheet A307, Detail #2, Wall Section and Details #3 & 5, Vertical Details: revise details as indicated. Refer to attached revised drawings.
10. Sheet A401, Details #1, 6, 7, 12, 13, & 17, Interior Elevations: revise interior elevations to indicated tack board locations. Refer to attached revised drawing.
11. Sheet A601, Detail #1, Room Finish Schedule and Detail #2, Color Schedule: revised schedules as indicated. Refer to attached revised drawing.
12. Sheet A602, Detail #1, Door Schedule: revise schedule as indicated. Refer to attached revised drawing.
13. Sheet A602, Detail #6, Door Frame Elevations and Sheet A603, Detail #1, Window Elevations: added frame elevation “D” from Sheet A603 to

Sheet 602 as indicated. Refer to attached revised drawing.

Mechanical, Electrical, and Plumbing

Refer to attachments.

B. Specifications:

1. Table of Contents: revised as per attachment.
2. Section 02811 - Underground Sprinkler System / Section 02900 - Trees and Turf / Section 02920 - Landscape Grading / Section 02979 - Landscape Establishment: added sections in their entirety. Refer to attached sections.
3. Section 08400 – Entrances and Storefronts: add section in its entirety. Refer to attached section.
4. Section 10500 - Lockers: add specification in its entirety. Refer to attached section.

END OF ADDENDUM NO. 1

1. SHELTER GENERAL INFORMATION

- A. TYPE OF SHELTER: COMMUNITY TORNADO SHELTER.
- B. SHELTER WIND DESIGN GUIDELINES: ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS - 2014 (ICC 500-2014).
- C. ROOF SYSTEMS HAVE BEEN SELECTED IN ACCORDANCE WITH DEBRIS IMPACT TESTING IN ACCORDANCE WITH ASTM E 1886 AT TEXAS TECH UNIVERSITY (REFER SUMMARY REPORT DATED JUNE 2003 PREPARED BY WIND SCIENCE AND ENGINEERING RESEARCH CENTER). REFER SECTION AT 4" THICK CONCRETE-#4 REBAR REINFORCEMENT 12 INCHES ON CENTER EACH WAY (TESTED FOR DEBRIS IMPACT OF 162 MPH)-67 MPH REQUIRED.
- D. WALL SYSTEMS HAVE BEEN SELECTED IN ACCORDANCE WITH DEBRIS IMPACT TESTING IN ACCORDANCE WITH ASTM E 1886 AT TEXAS TECH UNIVERSITY (REFER SUMMARY REPORT DATED JUNE 2003 PREPARED BY WIND SCIENCE AND ENGINEERING RESEARCH CENTER). REFER SECTION AT 8" REINFORCED CONCRETE WALLS (TESTED FOR DEBRIS IMPACT OF 135 MPH) - 100 MPH REQUIRED.
- E. REFERENCE ELEVATION OF 100'-0" EQUALS DATUM FINISHED FLOOR ELEVATION OF 1251.00' FOR THE STORM SHELTER.
- F. BASED ON THE FLOOD INSURANCE RATE MAPS (FIRM) FOR CLEVELAND COUNTY (MAP NUMBER 40027C0180J) THE FINISHED FLOOR ELEVATIONS OF 1251.00' FOR THE STORM SHELTER IS GREATER THAN THE HIGHEST FLOOD ELEVATION. THE SHELTER IS NOT LOCATED IN AN AREA SUSCEPTIBLE TO FLOODING.
- G. REFER MECHANICAL DRAWINGS FOR LOCATIONS OF SHELTER VENTILATION.
- H. FURNISH LOOSE CONNECTION HARDWARE AND ANCHORAGE ITEMS TO BE EMBEDDED IN OR ATTACHED TO OTHER CONSTRUCTION BEFORE STARTING THAT WORK. PROVIDE LOCATIONS, SETTING DIAGRAMS, TEMPLATES, INSTRUCTIONS, AND DIRECTIONS, AS REQUIRED, FOR INSTALLATION.

2. SHELTER DESIGN LOADS

- A. DEAD LOAD: SELF WEIGHT OF MATERIALS, UNLESS NOTED OTHERWISE
- B. ROOF DEAD LOAD:
- 1) BUILT UP ROOF.....6 PSF
- 2) RIGID INSULATION.....2 PSF
- 3) CONCRETE DECK (4" NW CONC. ON 2" COMP. - 6" TOTAL)......63 PSF
- 4) STEEL BEAMS......7 PSF
- 5) MISC (LIGHTING, DUCTWORK, PIPING, ETC.)......75 PSF
- 6) TOTAL......85 PSF
- C. LIVE LOADS:
- 1) ROOF LIVE LOAD (SHELTER).....100 PSF
- D. SHELTER WIND PARAMETERS:
- 1) GOVERNING CODE:.....ICC 500-2014
- 2) IMPORTANCE FACTOR, Iw:.....1.0
- 3) EXPOSURE CATEGORY:.....C
- 4) INTERNAL PRESSURE COEFFICIENTS, PARTIALLY ENCLOSED, GCPI.....+/-0.55
- 5) TOPOGRAPHIC FACTOR, Kzt.....1.0
- 6) DIRECTIONALITY FACTOR, Kd.....1.0
- 7) WIND VELOCITY, V:.....250 MPH
- E. EXTREME WIND PRESSURES-MAIN WIND FORCE RESISTING SYSTEM:
- 1) -GCPI
- A) WINDWARD WALL:.....175 PSF IN
- B) LEeward WALL:.....44 PSF IN
- C) SIDE WALL:......6 PSF OUT
- 2) +GCPI
- A) WINDWARD WALL:.....19 PSF IN
- B) LEeward WALL:.....139 PSF OUT
- C) SIDE WALL:......163 PSF OUT
- 3) WINDWARD PARAPET:......224 PSF IN
- 4) LEeward PARAPET:......147 PSF OUT
- 5) ROOF 0'-0" TO 13'-2" FROM LEADING EDGE:......187 PSF OUT
- 6) ROOF 13'-2" TO 26'-4" FROM LEADING EDGE:......139 PSF OUT
- 7) ROOF BEYOND 26'-4" FROM LEADING EDGE:......115 PSF OUT
- 8) ROOF:......57 PSF IN
- F. SNOW LOADS:
- 1) GOVERNING CODE:.....ASCE 7-10
- 2) IMPORTANCE FACTOR, Is:.....1.10
- 3) GROUND SNOW LOAD, Pg:......10 PSF
- 4) EXPOSURE FACTOR, Ce:.....1.0
- 5) THERMAL FACTOR, Ct:.....1.0
- 6) ROOF SLOPE FACTOR, Cs:.....1.0
- 7) CALCULATED FLAT ROOF SNOW LOAD, Pf:.....7.7 PSF
- 8) MINIMUM FLAT ROOF SNOW LOAD, I*Pf:......11 PSF
- 9) RAIN ON SNOW SURCHARGE LOAD......0 PSF
- 10) DRIFT LOADS:.....ASCE 7-10
- G. SEISMIC DESIGN CRITERIA:
- 1) GOVERNING CODE:.....ASCE 7-10
- 2) IMPORTANCE FACTOR, Ie:.....1.25
- 3) SOIL SITE CLASSIFICATION:.....C
- 4) 0.2 SEC. MAPPED SPECTRAL ACCELERATION, Ss:.....0.271
- 5) 1.0 SEC. MAPPED SPECTRAL ACCELERATION, S1:.....0.079
- 6) SITE COEFFICIENT, 0.2 SEC. PERIOD, Fa:.....1.3
- 7) SITE COEFFICIENT, 1.0 SEC. PERIOD, Fv:.....1.5
- 8) 0.2 SEC. DESIGN SPECTRAL ACCELERATION, Sds:......0.217
- 9) 1.0 SEC. DESIGN SPECTRAL ACCELERATION, Sd1:......0.090
- 10) SEISMIC DESIGN CATEGORY:.....B
- 11) SEISMIC PARAMETERS:
- A) SEISMIC FORCE RESISTING SYSTEM: ORDINARY REINFORCED CONCRETE SHEAR WALLS
- B) RESPONSE MODIFICATION COEFFICIENT, R:.....4.00
- C) SYSTEM OVERSTRENGTH FACTOR, O:......2.50
- D) DEFLECTION AMPLIFICATION FACTOR, Cd:.....4.00
- E) ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE METHOD.
- F) SEISMIC RESPONSE COEFFICIENT, Cs:......0.0678
- G) TOTAL SHELTER ONLY LATERAL BASE SHEAR, V:......99 KIPS
- H. IN ADDITION TO THE REQUIREMENTS OF THE SPECIAL INSPECTOR, THE OWNER SHALL EMPLOY A LICENSED PROFESSIONAL STRUCTURAL ENGINEER TO INSPECT THE FOLLOWING ELEMENTS OF THE MAIN WIND FORCE RESISTING SYSTEM OF THE SHELTER TO VERIFY CONFORMANCE WITH THE CONTRACT DOCUMENTS:
- 1) CONCRETE REBAR SIZE, SPACING, LAP LENGTHS AND EMBED PLATES
- 2) BEAM/COLUMN SIZE AND CONNECTIONS
- 3) HEADED STUD ANCHORS AND THE QUALITY OF THEIR CONNECTION TO THE TOP OF BEAM FLANGES
- 4) METAL DECKS SIZE AND ATTACHMENT

3. QUALITY ASSURANCE PLAN

- A. DETAILED REQUIREMENTS: PER ICC 500, SECTION 107.3.1, DETAILS CONTAINED WITHIN THESE DOCUMENTS EXEMPLIFY THE FOLLOWING CRITERIA.
- 1) ROOF CLADDING, SOFFITS AND ROOF FRAMING CONNECTIONS.
- A) COMPOSITE ROOF DECK ON STEEL BEAMS DETAILED REQUIREMENTS:
1. COMPOSITE DECK WELDED TO STEEL BEAMS.
2. HEADED STUDS CONNECTED TO STEEL BEAMS (THROUGH DECK) OR TO GIRDER.
3. MINIMUM 4" CONCRETE THICKNESS OVER COMPOSITE METAL DECK.
4. REINFORCEMENT OF CONCRETE DECK WITH A MINIMUM OF #4 AT 12 INCHES ON CENTER EACH WAY.
5. STEEL BEAM CONNECTIONS TO WALL WITH EMBED PLATE.
6. STEEL BEAM CONNECTION TO BEAM SHEAR TAB PLATE.
7. STEEL BEAM TO INTERIOR COLUMN CONNECTION.

- 2) WALL CONNECTIONS TO ROOF DIAPHRAGM AND FRAMING.
- A) DOWELS FROM CONCRETE WALL INTO SLAB.
- B) EMBED PLATES IN CAST-IN-PLACE WALLS TO DECK ANGLES.
- 3) ROOF DIAPHRAGM SYSTEM, INCLUDING CONNECTORS, DRAG STRUTS AND BOUNDARY ELEMENTS.
- A) CAST-IN-PLACE SLAB WITH MINIMUM #4 AT 12 INCHES ON CENTER AND MINIMUM CHORD STEEL OF 2 #6 BARS.
- 4) MAIN WIND FORCE RESISTING SYSTEMS INCLUDING BRACED FRAMES, MOMENT FRAMES AND SHEAR WALLS.
- A) ORDINARY REINFORCED CAST-IN-PLACE CONCRETE SHEAR WALLS
- 5) MAIN WIND FORCE RESISTING SYSTEM CONNECTIONS TO THE FOUNDATION.
- A) REINFORCING STEEL DOWELS.
- B) ANCHOR BOLTS.
- C) GROUT.
- 6) FABRICATION AND INSTALLATION OF COMPONENTS AND ASSEMBLIES OF THE SHELTER ENVELOPE REQUIRED TO MEET MISSILE IMPACT TEST REQUIREMENTS OF CHAPTER 3.
- A) REFER TO ITEMS 1.D, 1.E, AND 1.F INDICATED ABOVE.
- B) VERIFY DOOR TESTING AND ANCHORAGE REQUIREMENTS.
- C) VERIFY SHUTTER TESTING AND ANCHORAGE REQUIREMENTS.
- D) VERIFY OVERHEAD DOOR TESTING AND ANCHORAGE REQUIREMENTS.
- E) VERIFY LOUVER TESTING AND ANCHORAGE REQUIREMENTS.
- 7) WALL CLADDING AND WALL CLADDING CONNECTIONS.
- A) CAST-IN-PLACE - VERTICAL AND HORIZONTAL REINFORCING.
- 8) CORROSION RESISTANCE OR PROTECTION OF EXPOSED METAL CONNECTORS PROVIDING LOAD PATH CONTINUITY.
- A) GALVANIZED EMBED PLATES.
- B) ALL WELDS TO GALVANIZED EMBED PLATES MUST BE PROPERLY PREPPED PRIOR TO WELDING, SLAG REMOVED, WELD CLEANED AND COLD GALVANIZING PAINT ADDED.

- 9) FOUNDATION DESIGN:
- A) SPOT AND CONTINUOUS SYSTEM WITH SLIDING AND PASSIVE RESISTANCE.
- B) SLAB-ON-GRADE NOT USED AS DIAPHRAGM AND SUBGRADE DRAG.
- B. MAIN WINDFORCE-RESISTING SYSTEMS AND WIND-RESISTING COMPONENTS
- 1) FOUNDATIONS
- 2) CONCRETE BEARING/SHEAR WALLS
- 3) COMPOSITE STEEL BEAMS
- 4) STEEL EMBEDS AND PERIMETER ANGLES
- 5) COMPOSITE METAL DECK
- 6) REINFORCING STEEL
- 7) STEEL PROTECTION DEVICES
- 8) SHELTER ROOM DOORS, WINDOWS, AND LOUVERS.

- C. REQUIRED SPECIAL INSPECTIONS SHALL BE PROVIDED FOR CONSTRUCTION AND INSTALLATION OF MATERIALS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE. TYPE AND FREQUENCY ARE IDENTIFIED ON S1.05.
- 1) ANCHORAGE OF ALL OPENING PROTECTIVE DEVICES (DOORS, WINDOWS, SHUTTERS, LOUVERS, AND AFFIXED COWLINGS) SHALL BE CONTINUOUSLY OBSERVED BY A SPECIAL INSPECTOR.
- D. INSPECTION OF FABRICATORS: WHERE FABRICATION OF STRUCTURAL LOAD-BEARING AND DEBRIS-IMPACT-RESISTANT COMPONENTS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR SHOP, SPECIAL INSPECTION OF THE FABRICATOR SHALL BE PROVIDED.
- 1) EXCEPTION: PREFABRICATED STORM SHELTER COMPONENTS THAT HAVE BEEN INSPECTED AND LABELED BY AN APPROVED AGENCY MEETING THE REQUIREMENTS OF THE APPLICABLE BUILDING CODE.

- E. STRUCTURAL OBSERVATIONS: IN ADDITION TO THE REQUIREMENTS OF THE SPECIAL INSPECTOR, THE OWNER SHALL EMPLOY A LICENSED PROFESSIONAL STRUCTURAL ENGINEER TO INSPECT THE FOLLOWING ELEMENTS OF THE MAIN WIND FORCE RESISTING SYSTEM OF THE SHELTER TO VERIFY CONFORMANCE WITH THE CONTRACT DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT THE COMPLETION OF THE STRUCTURAL SYSTEM. DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER AND AHJ. AT THE CONCLUSION OF THE WORK, THE REGISTER DESIGN PROFESSIONAL SHALL SUBMIT TO THE AHJ A WRITTEN STATEMENT INDICATING SITE VISITS MADE AND IDENTIFYING ANY OUTSTANDING DEFICIENCIES THAT HAVE NOT BEEN RESOLVED.
- 1) DRILLED PIERS (IF APPLICABLE)
- A) PIER DIAMETER, EMBEDMENT INTO ROCK, REBAR SIZE, SPACING, LAP LENGTHS AND REBAR DOWELS SIZE, QUANTITY AND LOCATION.
- 2) FOUNDATIONS
- A) REBAR SIZE, SPACING AND LAP LENGTHS AND LOCATIONS
- 3) WALLS
- A) REBAR SIZE, SPACING, LAP LENGTHS
- B) EMBED SIZE AND LOCATIONS
- 4) ROOF
- A) REBAR SIZE, SPACING, LAP LENGTHS
- B) PERIMETER AND OPENING DECK EDGE INSTALLATION
- C) METAL DECK SIZE AND ATTACHMENT
- D) HEADED STUD ANCHORS SIZE, SPACING, AND ATTACHMENT
- 5) DOORS
- A) VERIFY INSTALLATION OF EACH DOOR IS PER MANUFACTURER'S TESTED ASSEMBLY.
- B) VERIFY ALL DOOR HARDWARE IS FULLY OPERATIONAL.
- C) VERIFY DOORS HAVE PROPER LABELS INDICATING REQUIRED PRESSURE AND IMPACT RATINGS.
- 6) PROTECTION DEVICES
- A) VERIFY INSTALLATION OF EACH STEEL PLATE PROTECTION DEVICES IS PER CONTRACT DRAWINGS.
- B) VERIFY ALL OPENINGS REQUIRING PROTECTION HAVE PROTECTION DEVICE INSTALLED.

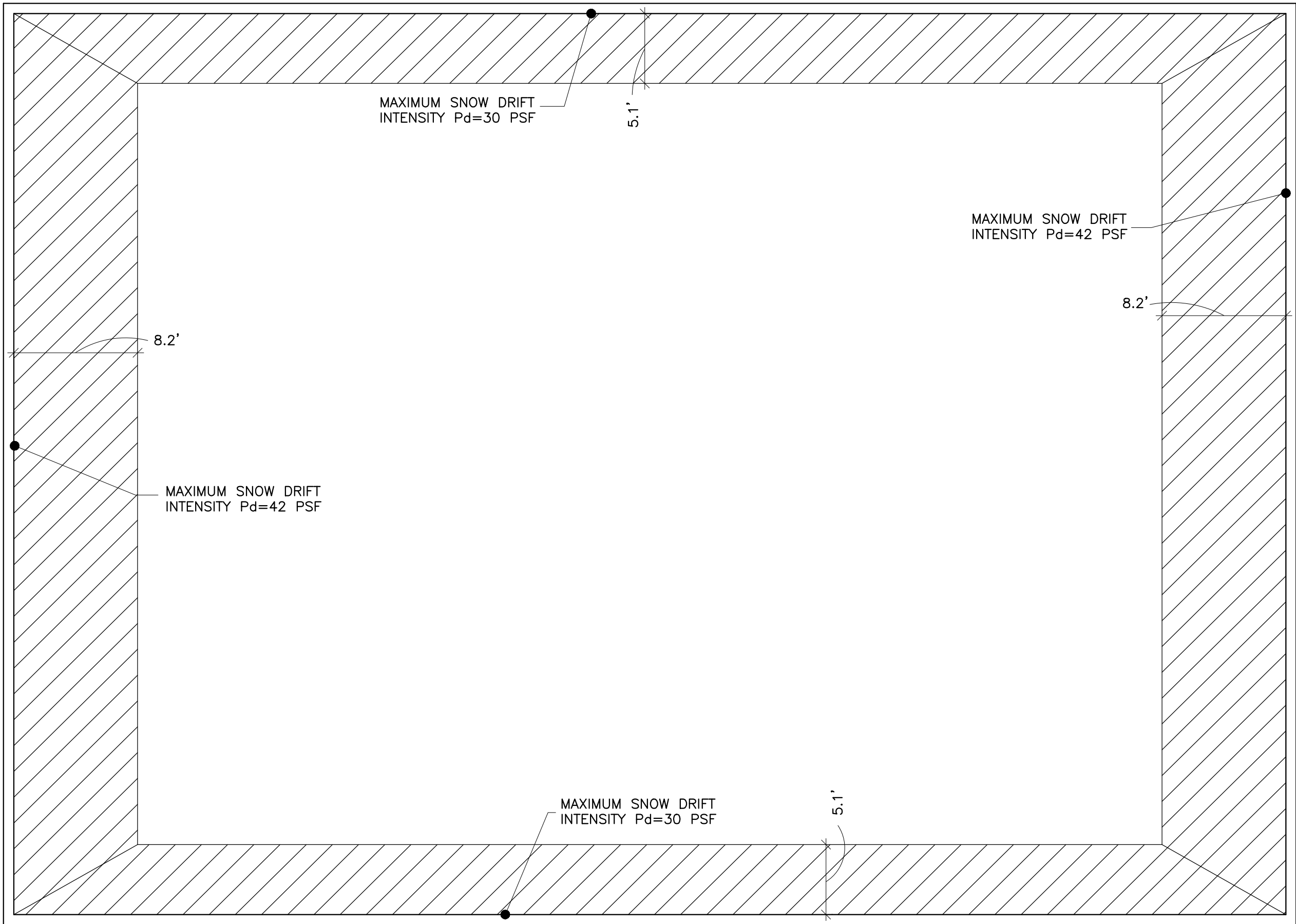
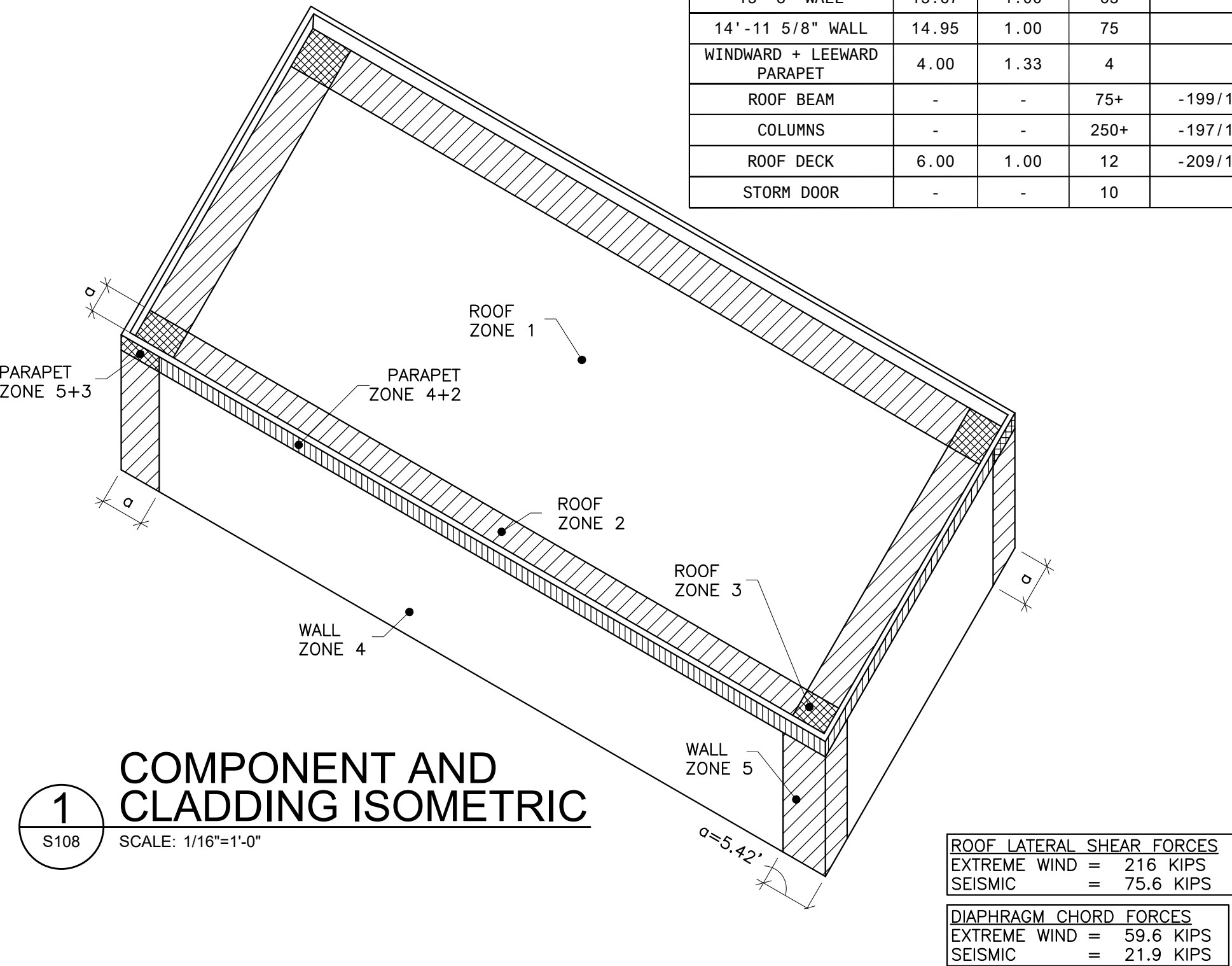
- F. CONTRACTOR RESPONSIBILITY: EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION, FABRICATION OR INSTALLATION OF A MAIN WIND FORCE-RESISTING SYSTEM OR ANY COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE AHJ, THE ARCHITECT/ENGINEER, AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL BE INCLUDED WITH THE FIRST SUBMITTAL/SHOP DRAWING. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN:
- 1) ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN
- 2) ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
- 3) PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF REPORTS.
- 4) IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.
- G. PRE-CONSTRUCTION MEETING: TO BE HELD PRIOR TO STARTING CONSTRUCTION AN INCLUDE THE CONSTRUCTION MANAGER, DESIGN TEAM, SPECIAL INSPECTOR, STRUCTURAL OBSERVER, AND THE CONTRACTORS RESPONSIBLE FOR FABRICATION AND INSTALLATION OF THE MAIN WIND FORCE-RESISTING SYSTEM AND COMPONENTS. AT A MINIMUM THE MEETING SHALL CONSIST OF THE FOLLOWING ITEMS:
- 1) REVIEW THE CONSTRUCTION DOCUMENTS AND QUALITY ASSURANCE PLAN.
- 2) REVIEW THE CONTRACTORS STATEMENT OF RESPONSIBILITY.
- 3) REVIEW THE CONSTRUCTION SCHEDULE AND SEQUENCE OF REQUIRED SPECIAL INSPECTIONS.

- H. SHELTER PENETRATIONS: THE DESIGN TEAM, CONSTRUCTION MANAGER, MEP TRADES, PRECAST PROVIDER, AND SPECIAL INSPECTOR SHALL MEET TO IDENTIFY ALL ITEMS PENETRATING THE PRECAST SHELTER ENVELOPE. THE METHOD OF INSTALLATION (FIELD CORING VS. FORMING) AND APPROPRIATE PROTECTION DETAILS SHALL BE REVIEWED FOR EACH INSTANCE.

1. SHELTER SPECIAL INSPECTION
- 1) POST INSTALLED ANCHORAGE AT THE SHELTER IN CONCRETE SHALL BE CONTINUOUSLY INSPECTED.
- 2) INSTALLATION OF SHELTER DOORS OR AFFIXED COWLINGS SHALL BE CONTINUOUSLY INSPECTED.
- 3) WELDING OF SHELTER DOORS OR AFFIXED COWLINGS SHALL BE CONTINUOUSLY INSPECTED.
- 4) HEADED STUD ANCHORS AND THE QUALITY OF THEIR CONNECTION TO THE TOP OF BEAM FLANGES
- 5) COMPOSITE METAL DECK SIZE AND ATTACHMENT

NOTE: POSITIVE PRESSURES ARE DIRECTED INWARD ON THE EXTERIOR SURFACE. NEGATIVE PRESSURES ARE DIRECTED OUTWARD ON THE EXTERIOR SURFACE.

EXTREME WIND COMPONENTS AND CLADDING LOADS										
BUILDING ELEMENT	SPAN (FT)	WIDTH (FT)	AREA (FT²)	WIND PRESSURE ZONE 1 (PSF)	WIND PRESSURE ZONE 2 (PSF)	WIND PRESSURE ZONE 3 (PSF)	WIND PRESSURE ZONE 4+2 (PSF)	WIND PRESSURE ZONE 5+3 (PSF)	WIND PRESSURE ZONE 4 (PSF)	WIND PRESSURE ZONE 5 (PSF)
13'-8" WALL	13.67	1.00	63						-192/180	-212/180
14'-11 5/8" WALL	14.95	1.00	75						-190/178	-208/178
WINDWARD + LEeward PARAPET	4.00	1.33	4				300	514		
ROOF BEAM	-	-	75+	-199/103	-235/103	-253/103				
COLUMNS	-	-	250+	-197/102	-224/102	-224/102				
ROOF DECK	6.00	1.00	12	-209/114	-312/114	-437/114				
STORM DOOR	-	-	10						-209/197	-246/197



NOTES:
1. VERIFY FINAL LOCATION OF ALL ROOF PENETRATIONS AND HUNG EQUIPMENT.
2. REFER ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL HANGING LOADS NOT SHOWN.

ROOF LATERAL SHEAR FORCES	
EXTREME WIND	= 216 KIPS
SEISMIC	= 75.6 KIPS
DIAPHRAGM CHORD FORCES	
EXTREME WIND	= 62.5 KIPS
SEISMIC	= 21.9 KIPS

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CEDAR CREEK

CIVIL

KFC ENGINEERING

STRUCTURAL

SALAS O'BRIEN

MECHANICAL / ELECTRICAL



CJC

drawn by

BWB

checked by

FEBRUARY 2025

date

revisions

ADDENDUM #1

MOORE PUBLIC SCHOOLS
BOARD OF EDUCATION
MOORE, OKLAHOMA



MOORE Public Schools
LEARNING FOR LIFE

~~CLASSROOM ADDITION~~
~~CENTRAL JUNIOR~~
~~HIGH SCHOOL~~
OLD SCHOOL
REPLACEMENT

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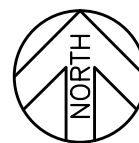
S108

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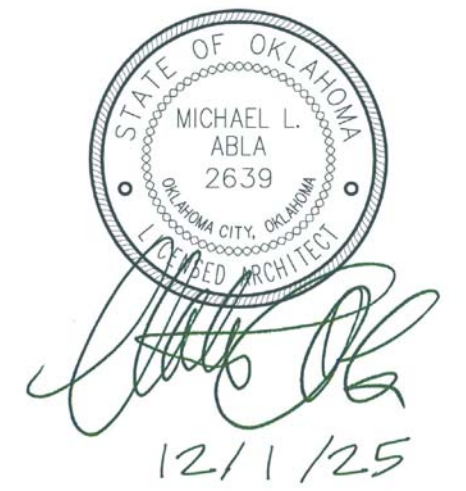
Kirkpatrick Forest Curtis PC
Structural Engineering
OK C.A. #3889, EXP. 06/30/27
1300 N. Walker, Suite 200
Oklahoma City, OK 73103
405.528.4596 | kfcengr.com



2
S108

SHELTER LOAD PLAN

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



CG	
drawn by	
MA	
checked by	
NOVEMBER 2025	
date	
revisions	
ADDENDUM #1	



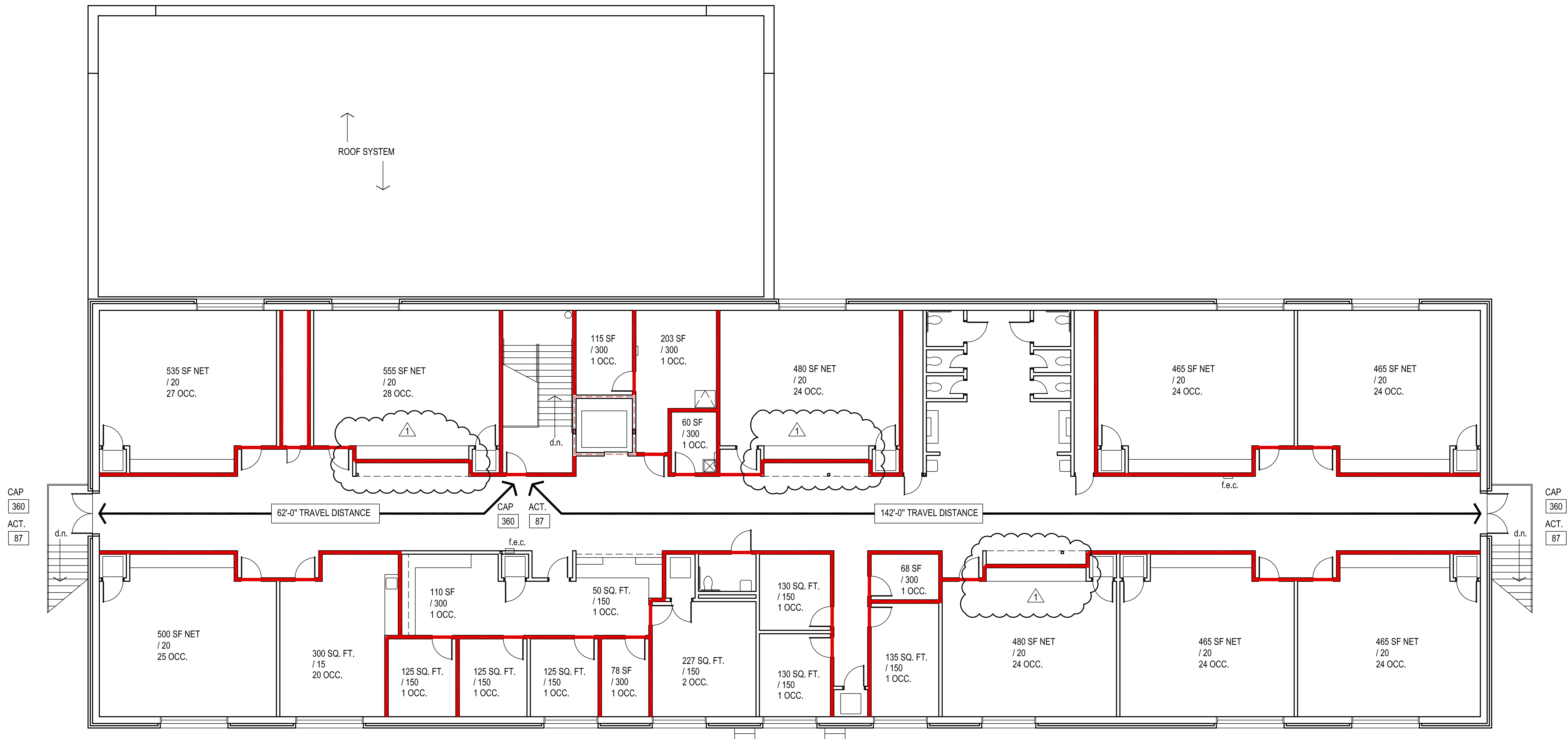
OLD SCHOOL
REPLACEMENT

sheet no:

A101

LIFE SAFETY PLAN

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OCCUPANT LOAD THIS FLOOR = 259
EGRESS WIDTH REQUIRED = 52.0"
EGRESS WIDTH PROVIDED = 180"
MAX TRAVEL DISTANCE TO PROTECTED STAIR TOWER = 142'-0"
STAIR WAY MEANS OF EGRESS - 259 OCC X 0.2 / 3 = 17.3" REQUIRED
AS PER 1005.3.1 STAIRWAYS
STAIR WAY MEANS OF EGRESS - 48"+ PROVIDED

CORRIDOR WIDTH REQUIREMENTS :
** OCC DENOTES NUMBER OF OCCUPANTS PER ROOM / EXIT
ALL CORRIDORS (11'-0" WIDTH) : 132 MAX. OCCUPANTS X 0.20 =
26.4" REQ'D / 132" MINIMUM PROVIDED
ALL CORRIDORS & EXIT DOORS EXCEED MINIMUM
CLEARANCES AS REQUIRED BY IBC & ADA

DENOTES PARTITIONS TO CLOSE-OUT TO
BOTTOM OF DECKING - CLOSE-OUT PARTITIONS
TO BE CONSTRUCTED OF 1 LAYER OF 5/8"
FIRE RATED GYP. BOARD EACH SIDE ON 6" METAL
STUDS @ 16" O.C. STAGGER ALL JOINTS &
PROVIDE FIRE TAPE. SEAL ALL PENETRATIONS
W/ CONTINUOUS FIRE STOPPING INSULATION
&/OR SEALANT. PROVIDE LABELING AS PER
IBC 703.7 MARKING AND IDENTIFICATION

DENOTES PARTITIONS TO CLOSE-OUT TO
BOTTOM OF DECKING - CLOSE-OUT PARTITIONS
TO BE CONSTRUCTED OF 4" METAL STUDS @ 16" O.C.
W/ 2 LAYER OF 5/8" FIRE RATED GYP. BOARD ONE SIDE
& 1" FIRE RATED GYP. BD. ON ELEVATOR SHAFT SIDE
STAGGER ALL JOINTS & PROVIDE FIRE TAPE. SEAL ALL
PENETRATIONS W/ CONTINUOUS FIRE STOPPING
INSULATION &/OR SEALANT. PROVIDE LABELING AS PER
IBC 703.7 MARKING AND IDENTIFICATION

NOTE:
THIS PLAN INDICATES WALL TO CLOSE OUT TO STRUCTURE
DUE TO FIRE CODE REQUIREMENTS.
IT IS NOT A REPRESENTATION OF ALL WALLS REQ'D TO CLOSE
OUT FOR STRUCTURAL / NO CEILING PRESENT / ETC. LOCATIONS



1

LIFE SAFETY PLAN - SECOND FLOOR

1/8" = 1'-0"



CG	drawn by
MA	checked by
NOVEMBER 2025	date
revisions	
1	ADDENDUM #1



OLD SCHOOL
REPLACEMENT

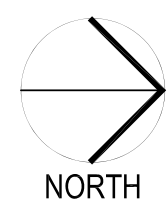
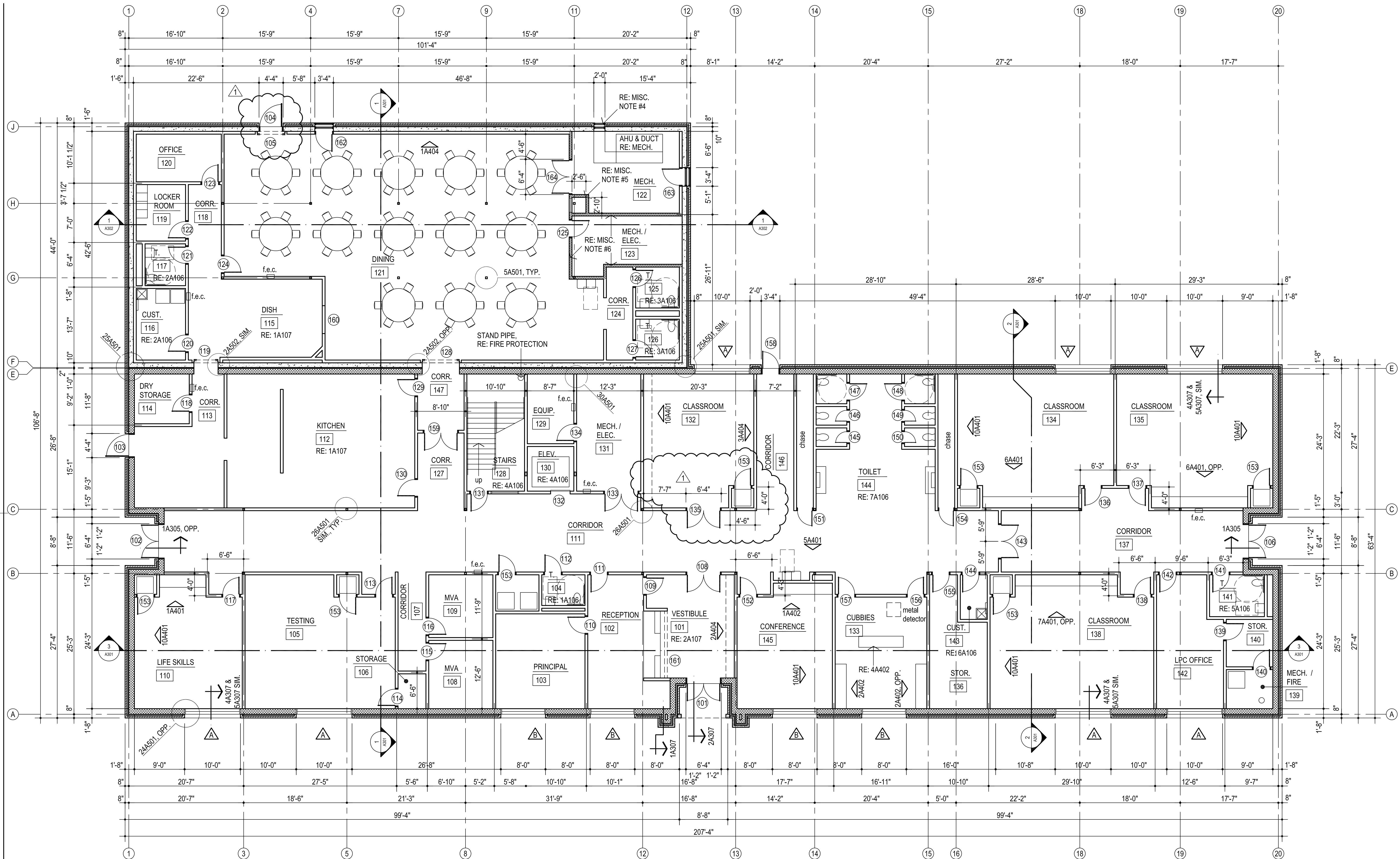
sheet no:

A102

FIRST FLOOR PLAN

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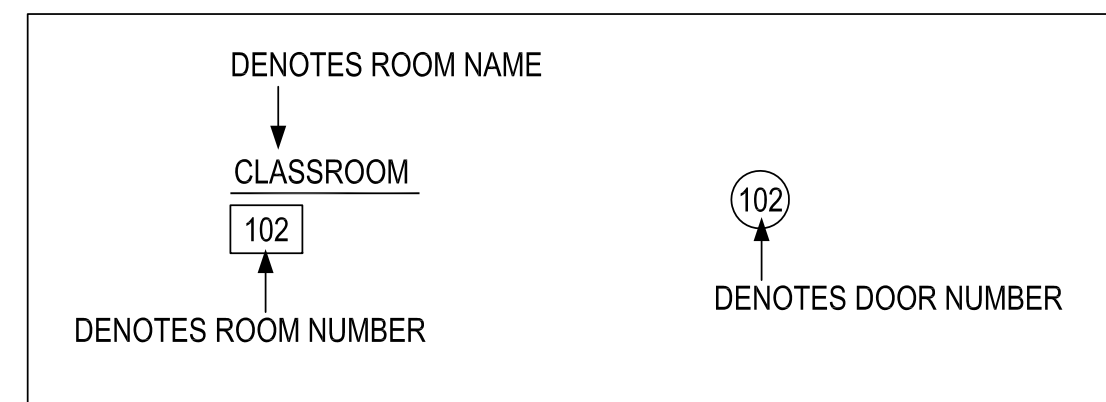
1

FIRST FLOOR PLAN

1/8" = 1'-0"

MISCELLANEOUS NOTES:

- F.E.C. - FIRE EXTINGUISHER AND CABINET
- DO NOT SCALE DRAWINGS TO OBTAIN MATERIAL QUANTITIES. USE DRAWINGS WHICH ARE DIMENSIONED OR COORDINATE W/ EXISTING CONDITIONS &/OR ARCHITECT & ENGINEERS.
- INTERIOR PARTITIONS ARE DIMENSIONED TO CENTER LINE
- COORDINATE LOUVER LOCATION WITH MECHANICAL EQUIPMENT LAYOUT PRIOR TO CONSTRUCTION.
- VERTICAL CHASE WALL TO BE 6" MTL. STUDS W/ 6" BATT INSUL. 5/8" GYP. BD. EACH SIDE - WRAP TOP TRACK WITH 5/8" GYP. BD. - TOP OF WALL TO BE 8'-0" ABOVE FIN. FLR.
- WALLS AT ROOM 122 & 123 TO RECEIVE 6" BATT INSULATION TO DECK ABOVE.





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revisions	
1	ADDENDUM #1



OLD SCHOOL
REPLACEMENT

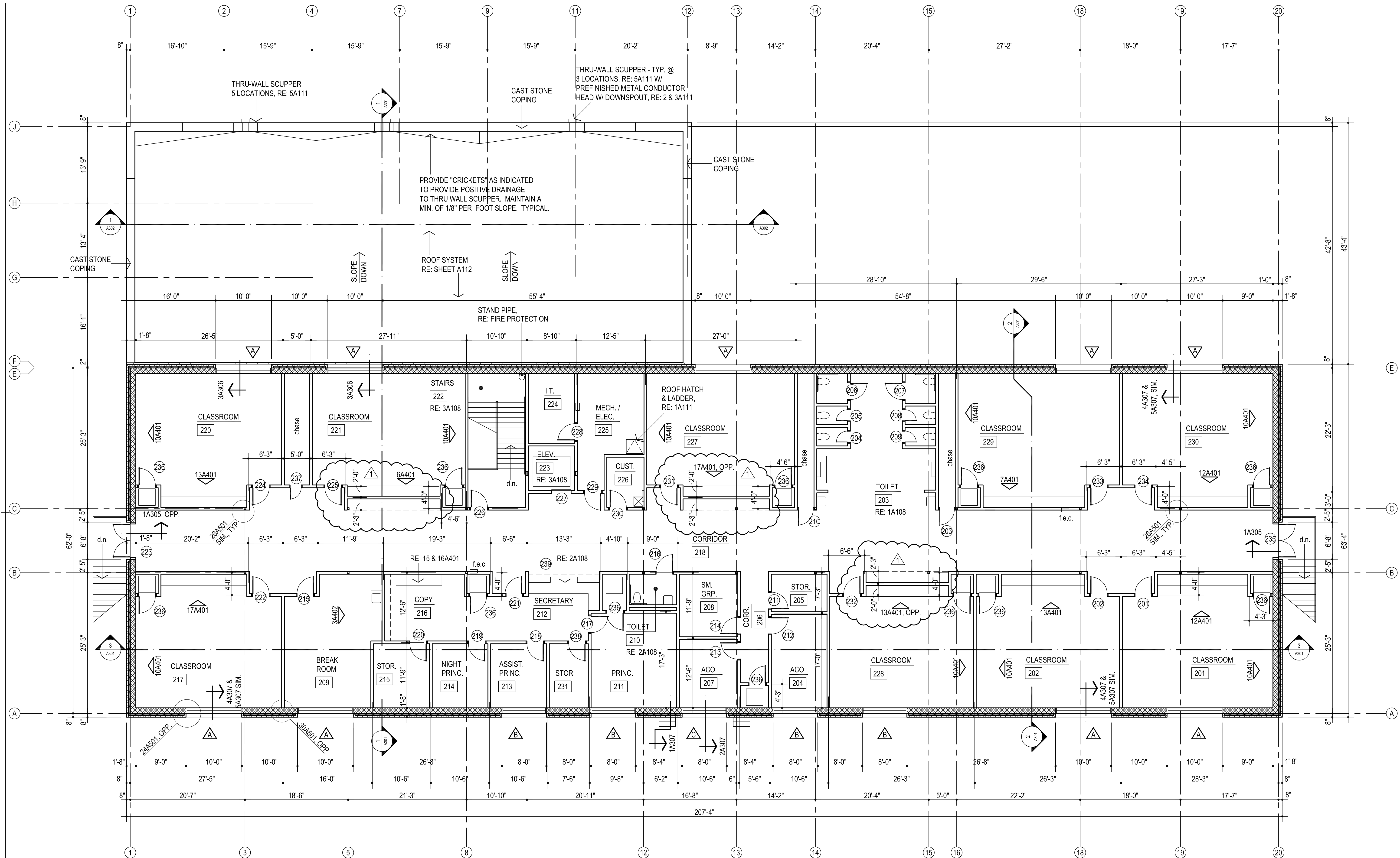
sheet no:

A103

SECOND FLOOR PLAN

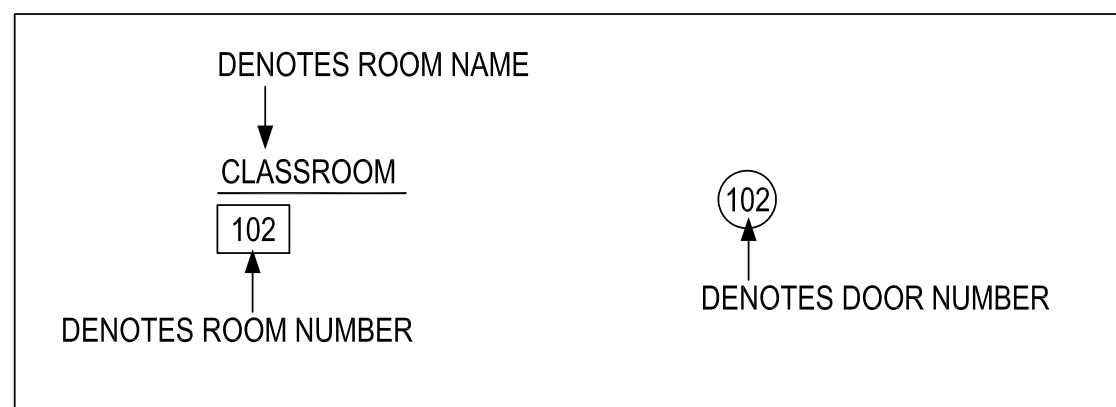
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MISCELLANEOUS NOTES:

- F.E.C. - FIRE EXTINGUISHER AND CABINET
- DO NOT SCALE DRAWINGS TO OBTAIN MATERIAL QUANTITIES. USE DRAWINGS WHICH ARE DIMENSIONED OR COORDINATE W/ EXISTING CONDITIONS &/OR ARCHITECT & ENGINEERS.
- INTERIOR PARTITIONS ARE DIMENSIONED TO CENTER LINE





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1 ADDENDUM #1



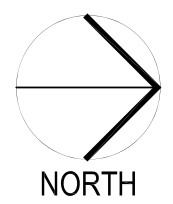
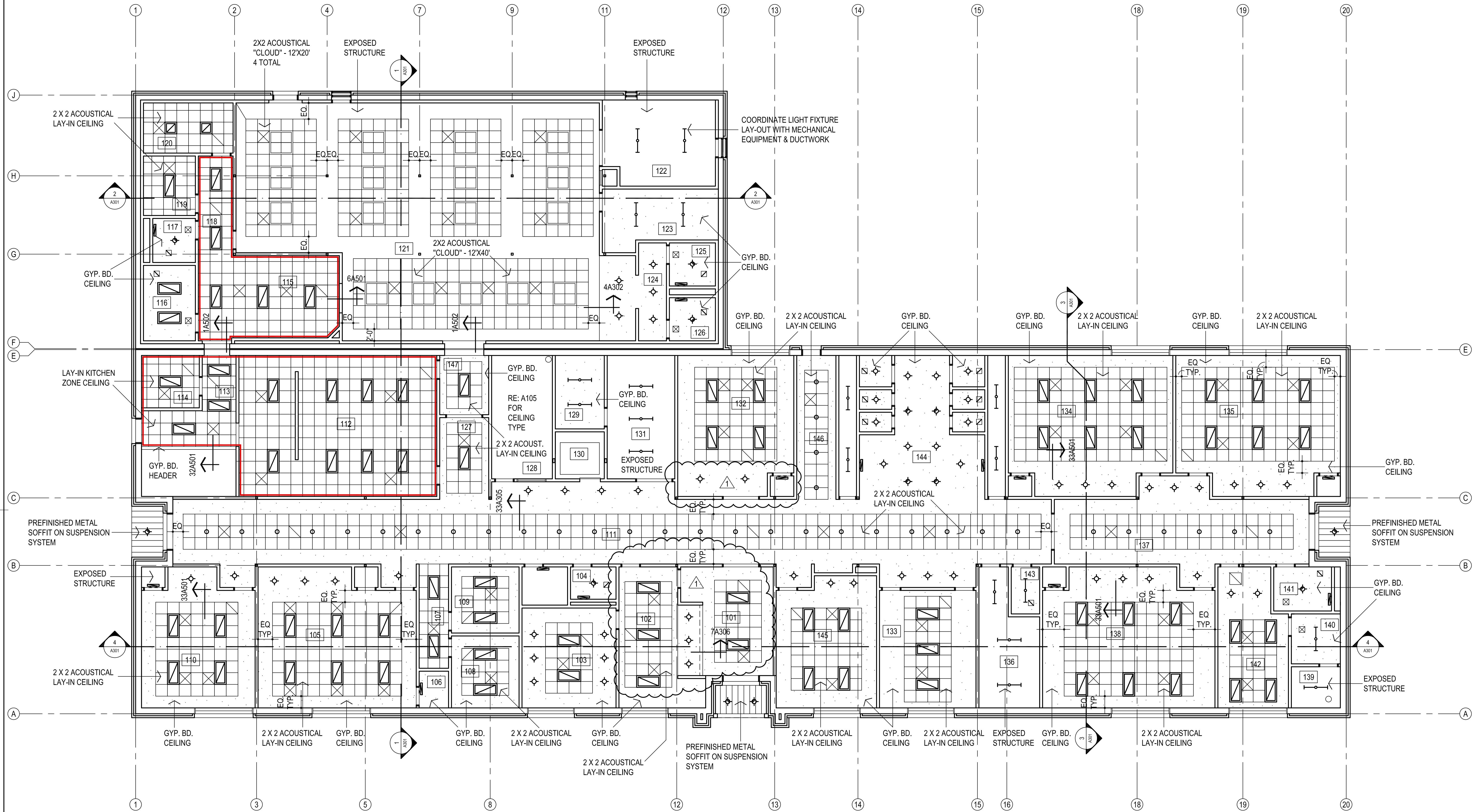
OLD SCHOOL
REPLACEMENT

sheet no:

A104

REFLECTED CEILING PLAN

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1

REFLECTED CEILING PLAN - FIRST FLOOR

1/8" = 1'-0"

LEGEND:

- MECHANICAL OPENINGS
ELECTRICAL FIXTURES
CEILING MOUNTED SMOKE DETECTOR, RE: ELEC
INDICATES AREA / ROOM TO RECEIVE GYP. BD.. CEILING
INDICATES AREA / ROOM TO RECEIVE 2X2 LAY-IN CEILING
INDICATES AREA / ROOM TO RECEIVE 2X2 LAY-IN KITCHEN ZONE CEILING

NOTES:

- NOTES:
1. REFER MECHANICAL & ELECTRICAL FOR ANY ADDITIONAL CEILING MOUNTED FIXTURES
2. REFER TO SHEET A109 & A110 FOR LOCATIONS OF FIRE-RATED WALLS
3. DO NOT SCALE DRAWINGS TO OBTAIN MATERIAL QUANTITIES. USE DRAWINGS WHICH ARE DIMENSIONED OR COORDINATE W/ EXISTING CONDITIONS &/OR ARCHITECT & ENGINEERS.

1. ALL CEILINGS TO BE LOCATED AT 10'-0" A.F.F. UNLESS NOTED OTHERWISE.
2. THESE DRAWINGS INDICATE THE LIMITS OF FINISHES FOR AREAS THAT HAVE MULTIPLE TYPES AND COLORS. REFER ROOM FINISH SCHEDULE FOR CEILING MATERIAL AND COLOR DESIGNATIONS NOT SHOWN ON THIS SHEET.
3. ALL FURRDOWNS SHALL BE PAINTED UNLESS NOTED OTHERWISE.
4. ALL CEILING FURRDOWNS SHALL BE BRACED WITH LIGHT GAUGE FRAMING TO PREVENT SWAYING.
5. ALL CEILINGS, FURRDOWNS, PIPES, DUCTS, EQUIPMENT, ETC. SHALL BE SUSPENDED FROM STRUCTURAL STEEL ABOVE. DO NOT SUPPORT ITEMS FROM METAL DECK ONLY. REFER STRUCTURAL FOR REQUIREMENTS OF ATTACHMENT TO STEEL.

6. MECHANICAL AND ELECTRICAL DISCIPLINES ARE SHOWN FOR INFORMATION PURPOSES ONLY. REFER TO CONSULTANT SHEETS FOR EXACT FIXTURE LOCATIONS.
7. COORDINATE LOCATION OF ANY CONTROL JOINTS NOT SHOWN WITH THE ARCHITECT PRIOR TO INSTALLATION.
8. PROVIDE DRYWALL CONTROL JOINTS AT WALLS, CEILINGS AND SOFFITS, FURRINGS, ETC., WHERE SHOWN ON DRAWINGS, AND THE FOLLOWING LOCATIONS (SHOWN OR NOT):
A. AT OTHER LOCATIONS WHERE STRUCTURAL SUPPORT FOR FRAMING CHANGES LEVEL OR MATERIAL, OR WHERE DIFFERENTIAL MOVEMENT IS LIKELY TO OCCUR,
B. AT LOCATIONS WHERE CEILING FRAMING MEMBERS CHANGE DIRECTION,

- C. AT 30' MAX SPACING IN ANY UNINTERRUPTED STRAIGHT PLANE OR CURVE FOR WALLS, CEILINGS AND SOFFITS (IN TWO DIRECTIONS),
D. AT DOORS, WINDOWS AND OPENINGS LESS THAN OR EQUAL TO 4'-0" WIDE, FROM ONE EDGE OF FRAME, TO TOP OF WALL, AND TO FLOOR IF OPENING DOES NOT EXTEND TO FLOOR,
E. AT DOORS, WINDOWS AND OPENINGS GREATER THAN 4'-0" WIDE, FROM BOTH EDGES OF FRAME, TO TOP OF WALL, AND TO FLOOR IF OPENING DOES NOT EXTEND TO FLOOR,
F. AT BUILDING CONTROL JOINTS, SEISMIC JOINTS AND EXPANSION JOINTS,
G. AT LOCATIONS OF EXTREME DIFFERENCE IN THE DIMENSIONS OF ADJACENT DRYWALL AREAS.
9. REFER TO TECHNOLOGY SHEETS & SPECS FOR OTHER CEILING TILE REQUIREMENTS.



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1	ADDENDUM #1



OLD SCHOOL
REPLACEMENT

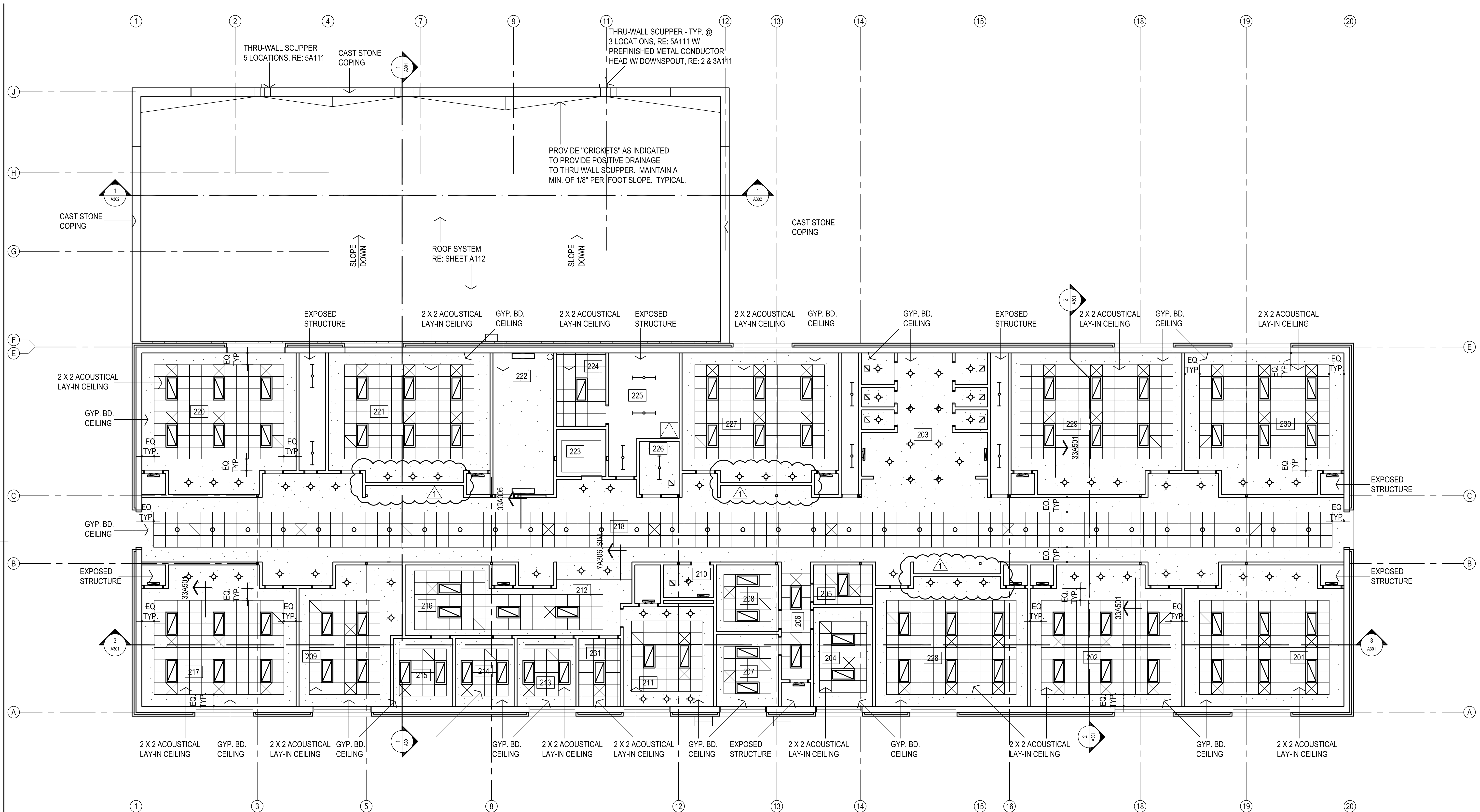
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A105

REFLECTED CEILING PLAN

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1

REFLECTED CEILING PLAN - SECOND FLOOR

1/8" = 1'-0"

LEGEND:

⊗ MECHANICAL OPENINGS

○ ELECTRICAL FIXTURES

Ⓢ CEILING MOUNTED SMOKE DETECTOR, RE: ELEC

INDICATES AREA / ROOM TO RECEIVE GYP. BD.. CEILING

INDICATES AREA / ROOM TO RECEIVE 2X2 LAY-IN CEILING

NOTES:

1. ALL CEILINGS TO BE LOCATED AT 10'-0" A.F.F. UNLESS NOTED OTHERWISE.

2. THESE DRAWINGS INDICATE THE LIMITS OF FINISHES FOR AREAS THAT HAVE MULTIPLE TYPES AND COLORS. REFER ROOM FINISH SCHEDULE FOR CEILING MATERIAL AND COLOR DESIGNATIONS NOT SHOWN ON THIS SHEET.

3. ALL FURRDOWNS SHALL BE PAINTED UNLESS NOTED OTHERWISE.

4. ALL CEILING FURRDOWNS SHALL BE BRACED WITH LIGHT GAUGE FRAMING TO PREVENT SWAYING.

5. ALL CEILINGS, FURRDOWNS, PIPES, DUCTS, EQUIPMENT, ETC. SHALL BE SUSPENDED FROM STRUCTURAL STEEL ABOVE. DO NOT SUPPORT ITEMS FROM METAL DECK ONLY. REFER STRUCTURAL FOR REQUIREMENTS OF ATTACHMENT TO STEEL.

6. MECHANICAL AND ELECTRICAL DISCIPLINES ARE SHOWN FOR INFORMATION PURPOSES ONLY. REFER TO CONSULTANT SHEETS FOR EXACT FIXTURE LOCATIONS.

7. COORDINATE LOCATION OF ANY CONTROL JOINTS NOT SHOWN WITH THE ARCHITECT PRIOR TO INSTALLATION.

8. PROVIDE DRYWALL CONTROL JOINTS AT WALLS, CEILINGS AND SOFFITS, FURRINGS, ETC., WHERE SHOWN ON DRAWINGS, AND THE FOLLOWING LOCATIONS (SHOWN OR NOT):

A. AT OTHER LOCATIONS WHERE STRUCTURAL SUPPORT FOR FRAMING CHANGES LEVEL OR MATERIAL, OR WHERE DIFFERENTIAL MOVEMENT IS LIKELY TO OCCUR.

B. AT LOCATIONS WHERE CEILING FRAMING MEMBERS CHANGE DIRECTION,

C. AT 30' MAX SPACING IN ANY UNINTERRUPTED STRAIGHT PLANE OR CURVE FOR WALLS, CEILINGS AND SOFFITS (IN TWO DIRECTIONS),
D. AT DOORS, WINDOWS AND OPENINGS LESS THAN OR EQUAL TO 4'-0" WIDE, FROM ONE EDGE OF FRAME, TO TOP OF WALL, AND TO FLOOR IF OPENING DOES NOT EXTEND TO FLOOR.

E. AT DOORS, WINDOWS AND OPENINGS GREATER THAN 4'-0" WIDE, FROM BOTH EDGES OF FRAME, TO TOP OF WALL, AND TO FLOOR IF OPENING DOES NOT EXTEND TO FLOOR.

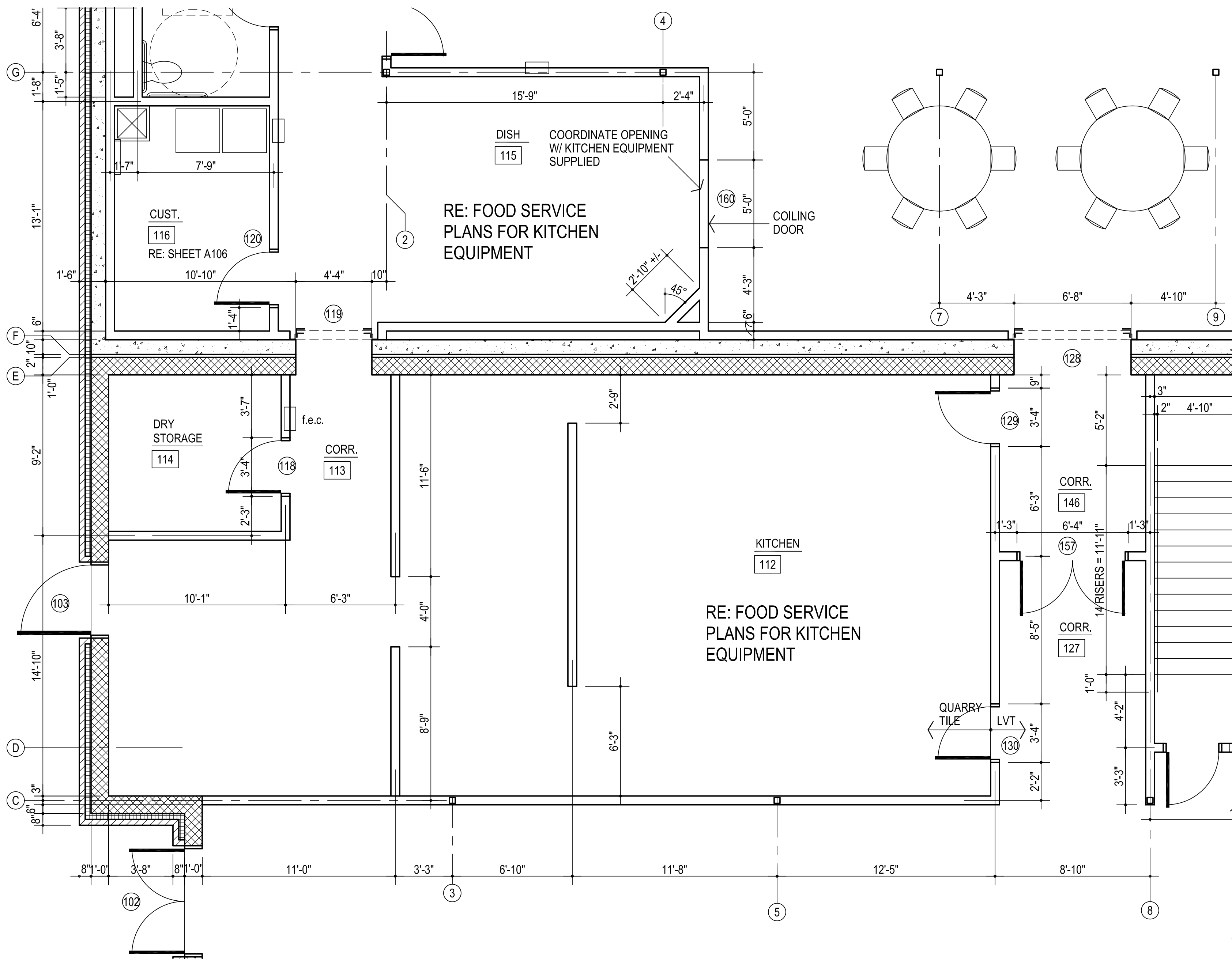
F. AT BUILDING CONTROL JOINTS, SEISMIC JOINTS AND EXPANSION JOINTS,

G. AT LOCATIONS OF EXTREME DIFFERENCE IN THE DIMENSIONS OF ADJACENT DRYWALL AREAS.

9. REFER TO TECHNOLOGY SHEETS & SPECS FOR OTHER CEILING TILE REQUIREMENTS.

NOTES:

- REFER MECHANICAL & ELECTRICAL FOR ANY ADDITIONAL CEILING MOUNTED FIXTURES
- REFER TO SHEET A109 & A110 FOR LOCATIONS OF FIRE-RATED WALLS
- DO NOT SCALE DRAWINGS TO OBTAIN MATERIAL QUANTITIES. USE DRAWINGS WHICH ARE DIMENSIONED OR COORDINATE W/ EXISTING CONDITIONS &/OR ARCHITECT & ENGINEERS.

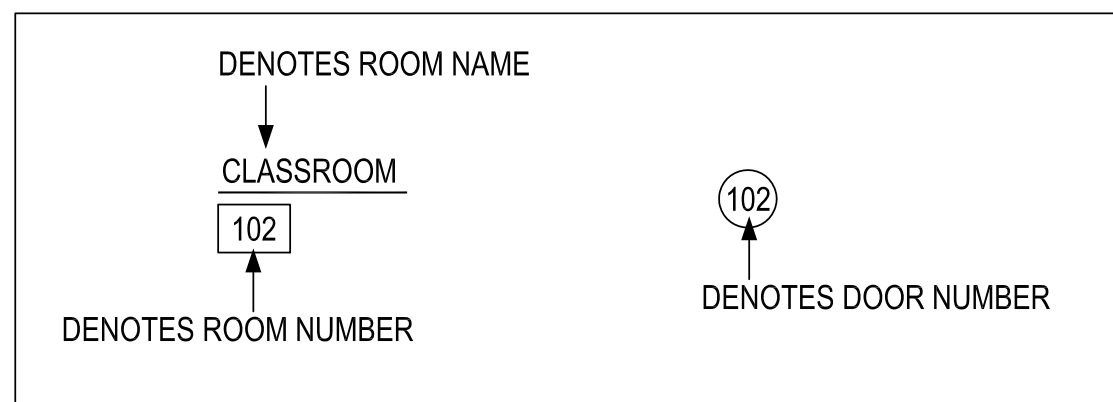


1

ENLARGED FLOOR PLAN
ROOM # 122, 113, 114, 115 & 127
1/4" = 1'-0"

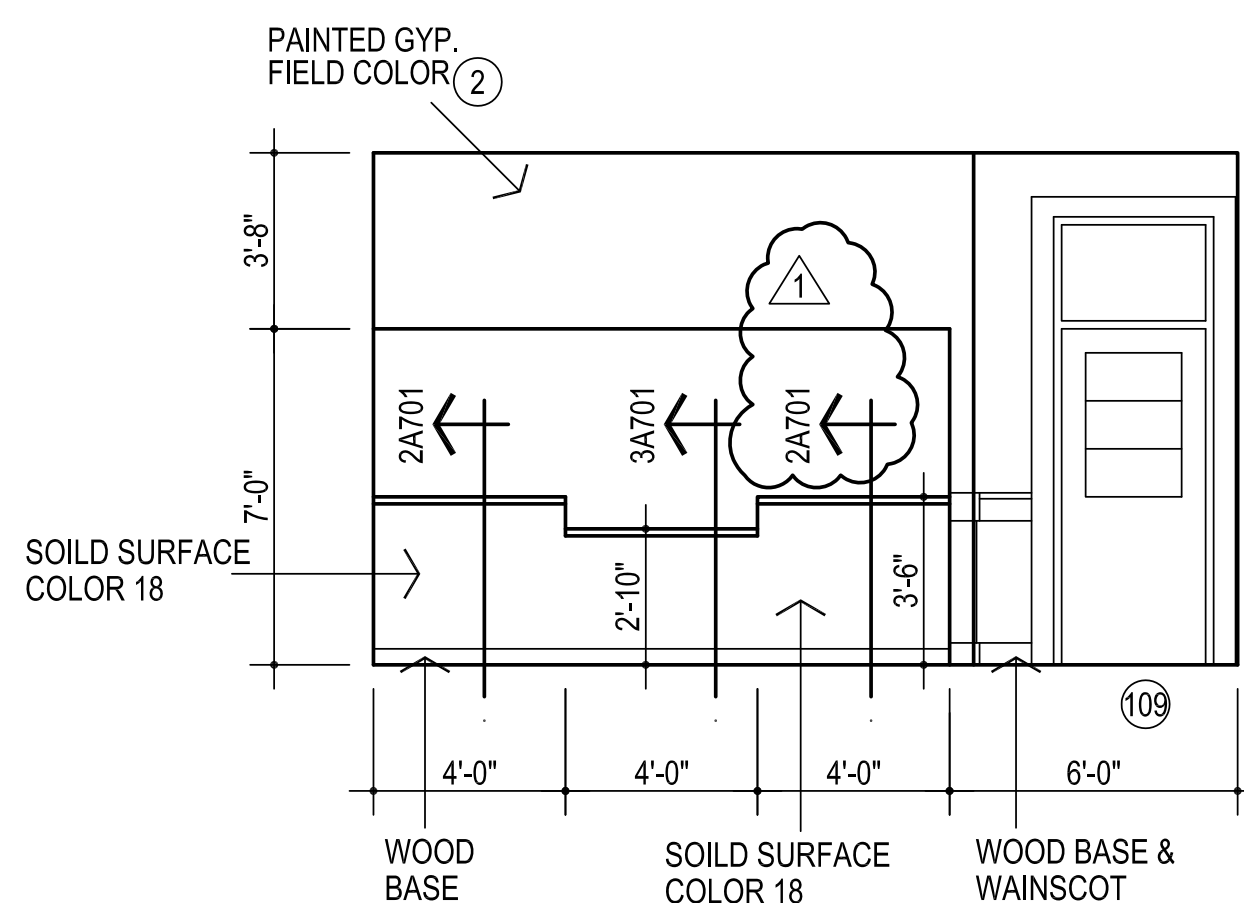
COORDINATE UNDERSLAB, WALLS &
OPENINGS WITH KITCHEN EQUIPMENT DESIGN /
SUPPLIED PRIOR TO ANY INSTALLATION

NOTE: CONTRACTOR TO VERIFY THAT
THE MOUNTING HEIGHTS OF ALL WALL
MOUNTED FIXTURES (I.E. PLUMBING FIXTURES,
GRAB BARS, MIRRORS, ETC.) MEET
ALL APPLICABLE CODES & STANDARDS
PRIOR TO INSTALLATION.



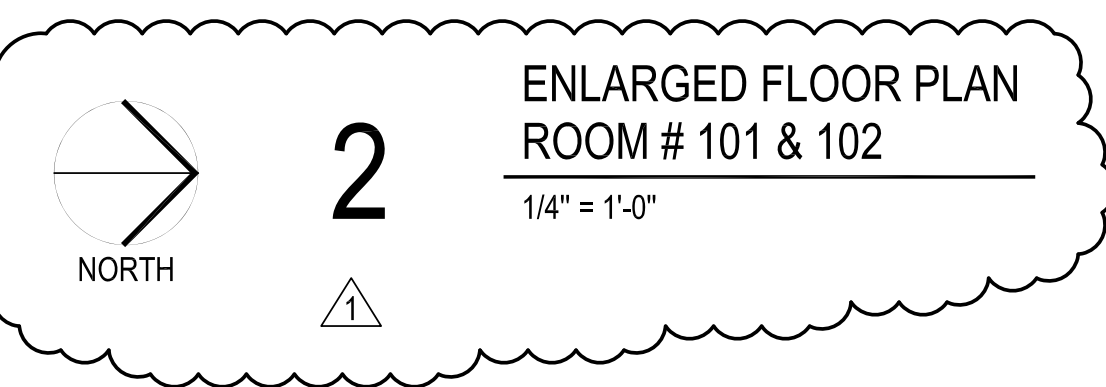
MISCELLANEOUS NOTES:

- F.E.C. - FIRE EXTINGUISHER AND CABINET
- DO NOT SCALE DRAWINGS TO OBTAIN MATERIAL QUANTITIES.
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EXISTING CONDITIONS &/OR ARCHITECT & ENGINEERS.
- INTERIOR PARTITIONS ARE DIMENSIONED TO
CENTER LINE



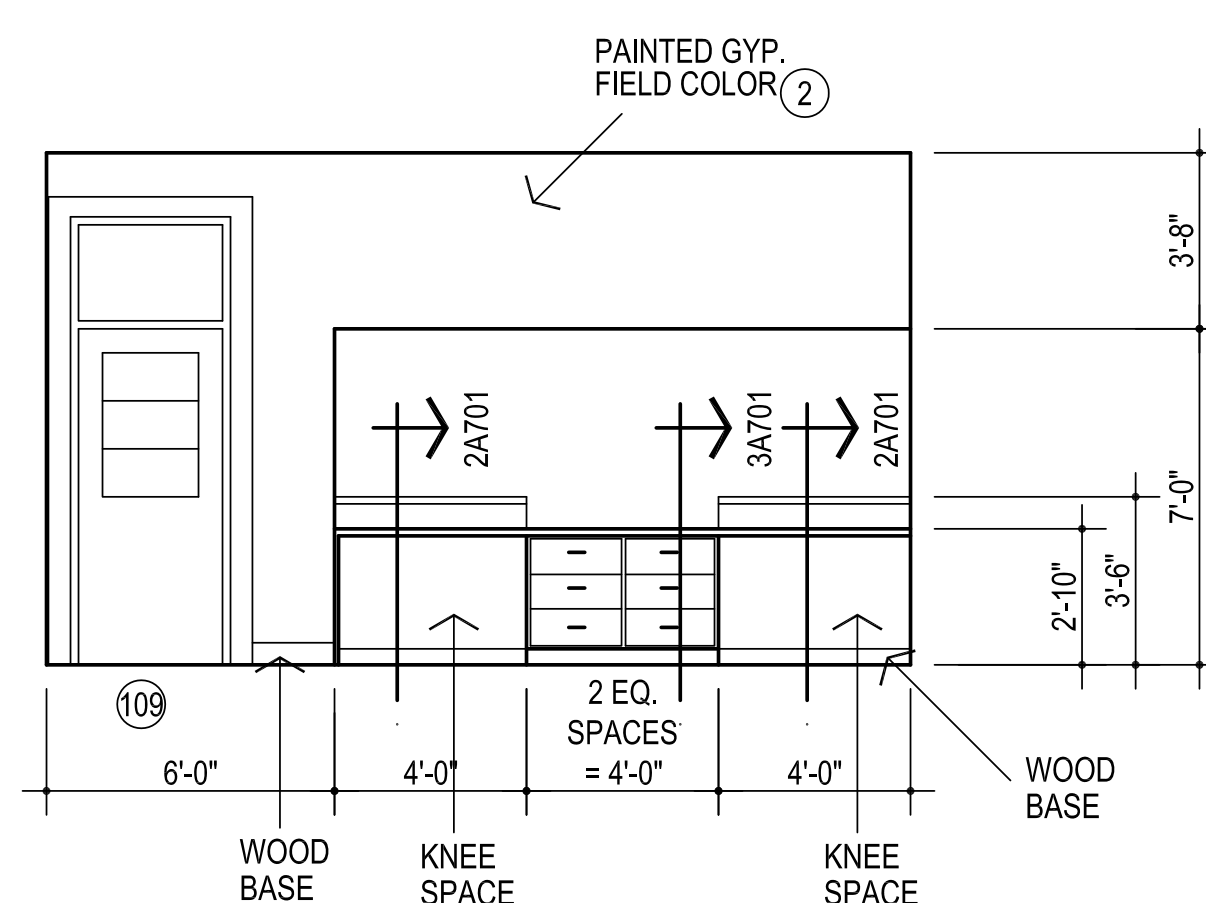
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S. WALL ROOM #101
1/4" = 1'-0"



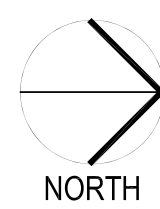
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ENLARGED FLOOR PLAN
ROOM # 101 & 102
1/4" = 1'-0"



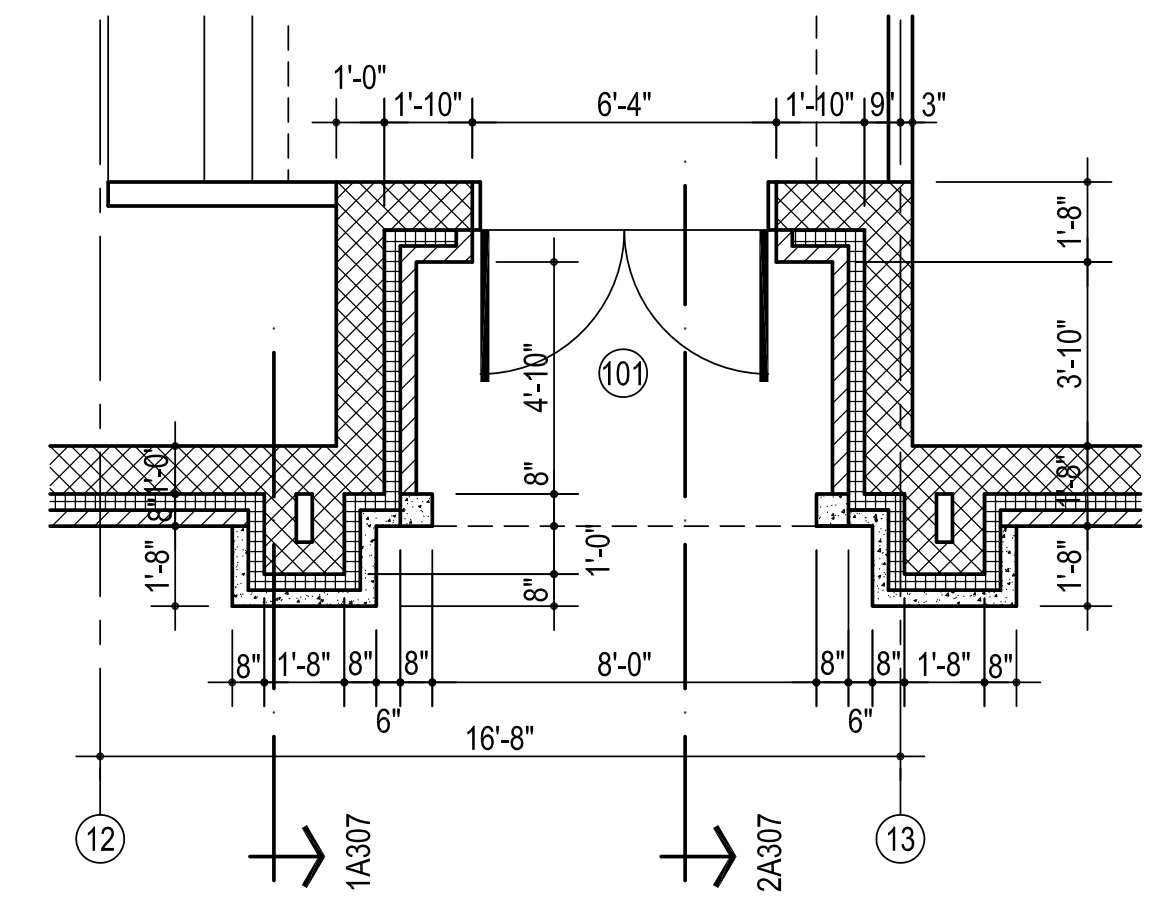
4

N. WALL ROOM #102
1/4" = 1'-0"



5

ENLARGED FLOOR PLAN
CAST STONE DIMENSIONS
1/4" = 1'-0"



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MOORE
PUBLIC SCHOOLS

OLD SCHOOL
REPLACEMENT

sheet no:

A107

FIRST FLOOR ENLARGED PLANS

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OLD SCHOOL
REPLACEMENT

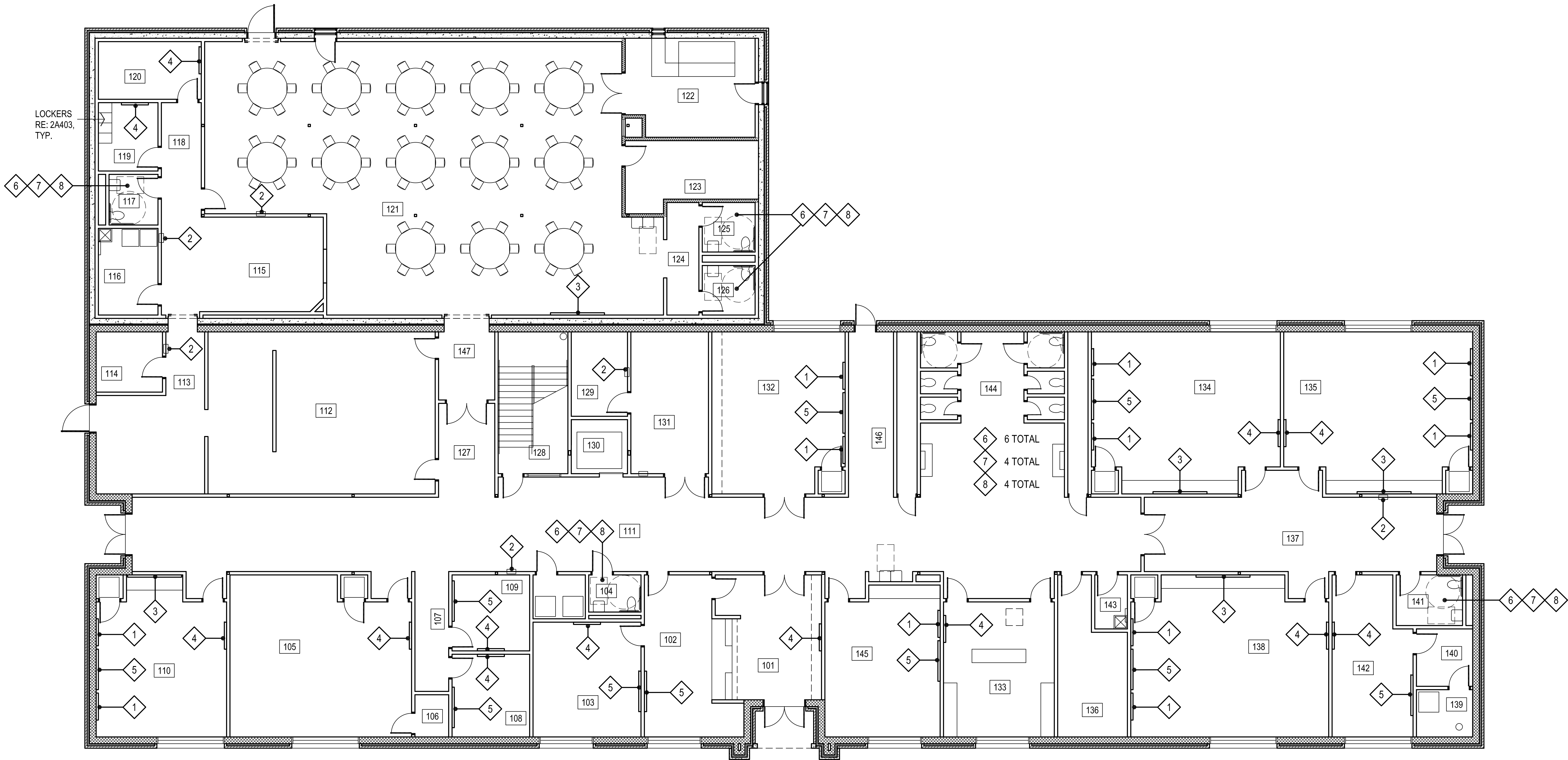
sheet no:

A109

EQUIPMENT PLAN

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1

FIRST FLOOR EQUIPMENT PLAN
1/8" = 1'-0"

WALL MOUNTED DISPLAY - SERVICE RECEPTACLES -
DEVIES TO BE OF / OI

- LEGEND :
- 4 - CONTRACTOR FURNISHED AND INSTALLED (CFI)
 - 4 - OWNER FURNISHED AND INSTALLED (OFI)
 - 4 - OWNER FURNISHED AND CONTRACTOR INSTALLED (OF / CI)

ITEM NO.	CFI	OFI	DESCRIPTION	MANUFACTURER		REMARKS
				NAME	MODEL NO.	
1	●		MARKERBOARD - 4'-0"	BEST-RITE CHALKBOARD CO.	RE: SPECS	W/ CHALK RAIL
2	●		FIRE EXTINGUISHER & CABINET	JL INDUSTRIES	RE: SPECS	KITCHEN TYPE WHERE REQ'D
3	●		TACKBOARD - 8'-0"	BEST-RITE CHALKBOARD CO.	RE: SPECS	
4	●		TACKBOARD - 4'-0"	BEST-RITE CHALKBOARD CO.	RE: SPECS	
5	●		SMARTBOARD / DISPLAY - SERVICE RECEPTACLES - DEVIES TO BE OF / OI			RE: TECHNOLOGY
6		●	TOILET PAPER HOLDER			
7		●	PAPER TOWEL DISPENSER			
8		●	SOAP DISPENSER			

NOTES:

- ALL CHALKBOARDS & TACKBOARDS MOUNTED @ EXTERIOR WALLS SHALL HAVE "STAND-OFF" MOUNTING BRACKETS TO PREVENT CONDENSATION BEHIND BOARDS.

2

EQUIPMENT SCHEDULE



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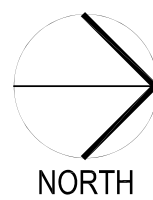
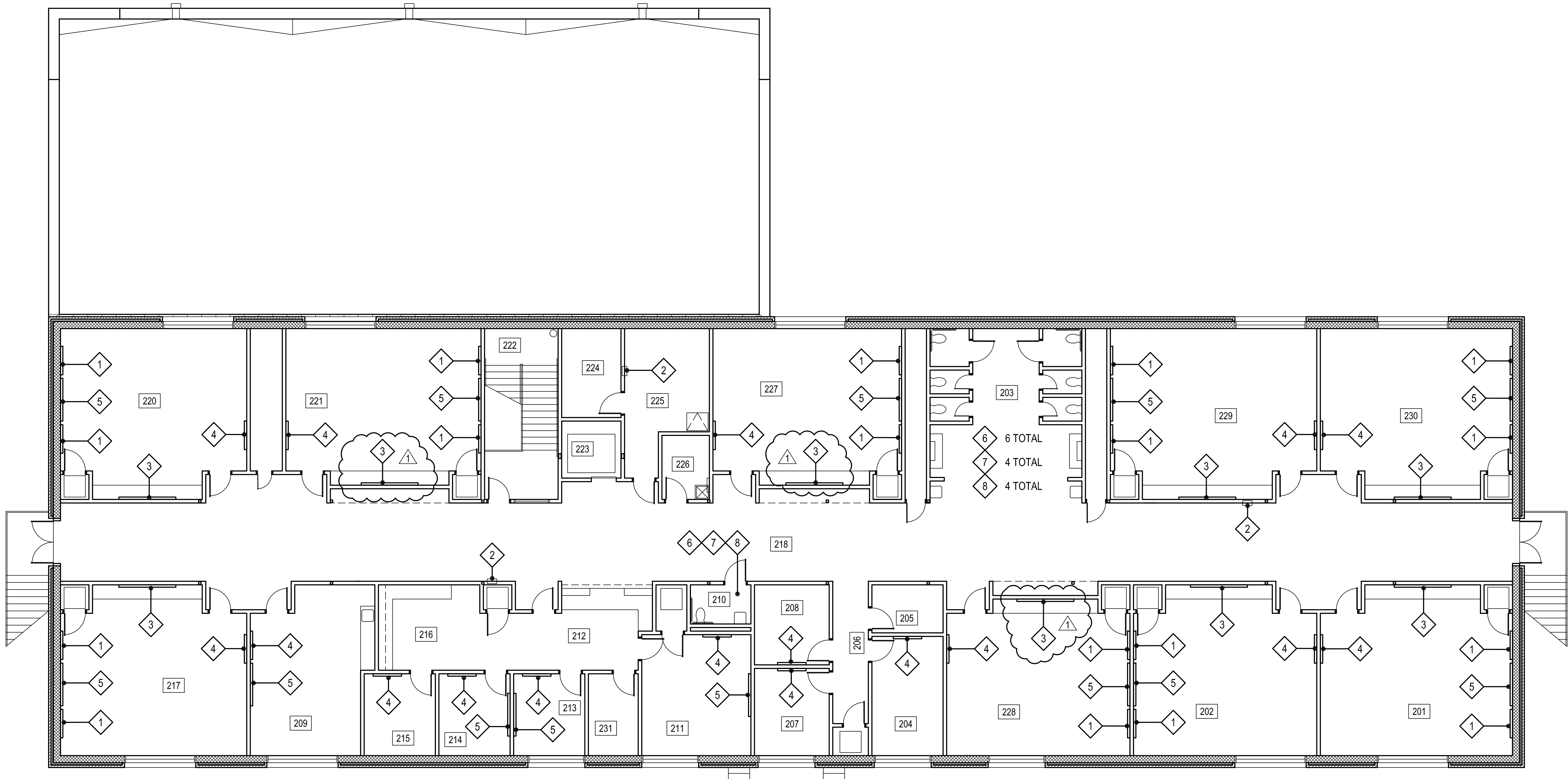
OLD SCHOOL
REPLACEMENT

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A110

EQUIPMENT PLAN

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1

SECOND FLOOR EQUIPMENT PLAN

1/8" = 1'-0"

NOTES:

- ALL CHALKBOARDS & TACKBOARDS MOUNTED
@ EXTERIOR WALLS SHALL HAVE "STAND-OFF"
MOUNTING BRACKETS TO PREVENT CONDENSATION
BEHIND BOARDS.

LEGEND :

- CONTRACTOR FURNISHED AND
INSTALLED (CFI)
- OWNER FURNISHED AND
INSTALLED (OFI)
- OWNER FURNISHED AND
CONTRACTOR INSTALLED (OF / CI)



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1	ADDENDUM #1



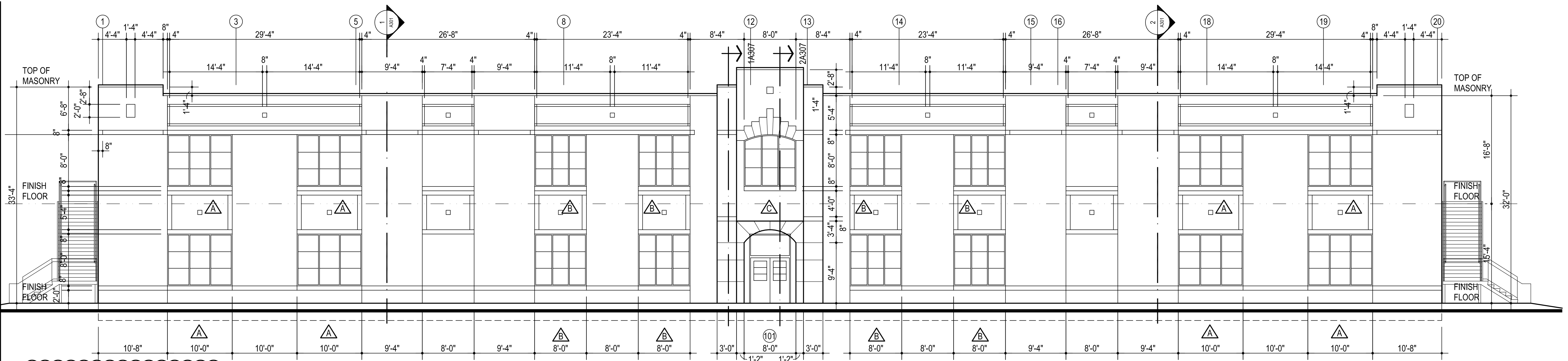
OLD SCHOOL
REPLACEMENT

sheet no:

A201

ELEVATIONS

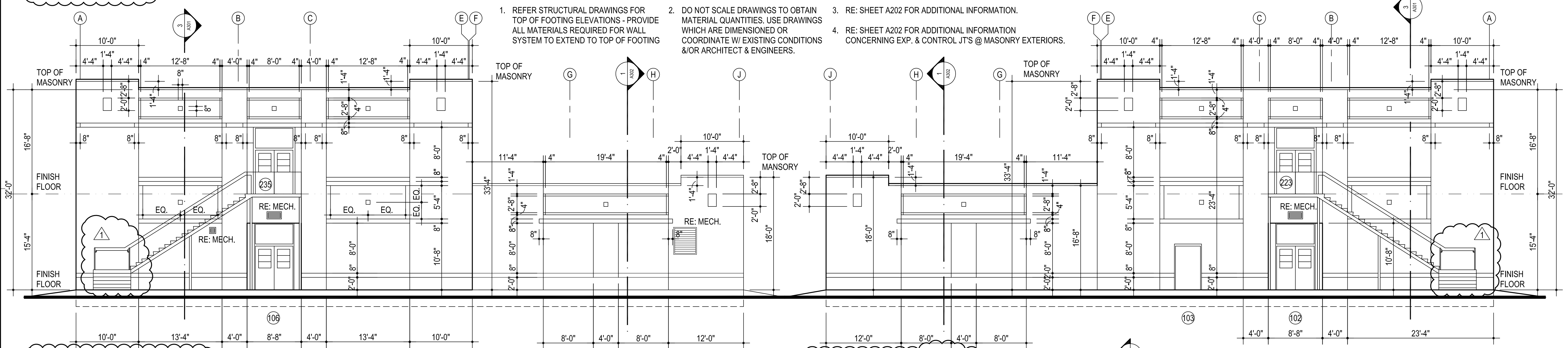
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1 EAST ELEVATION
1/8" = 1'-0"

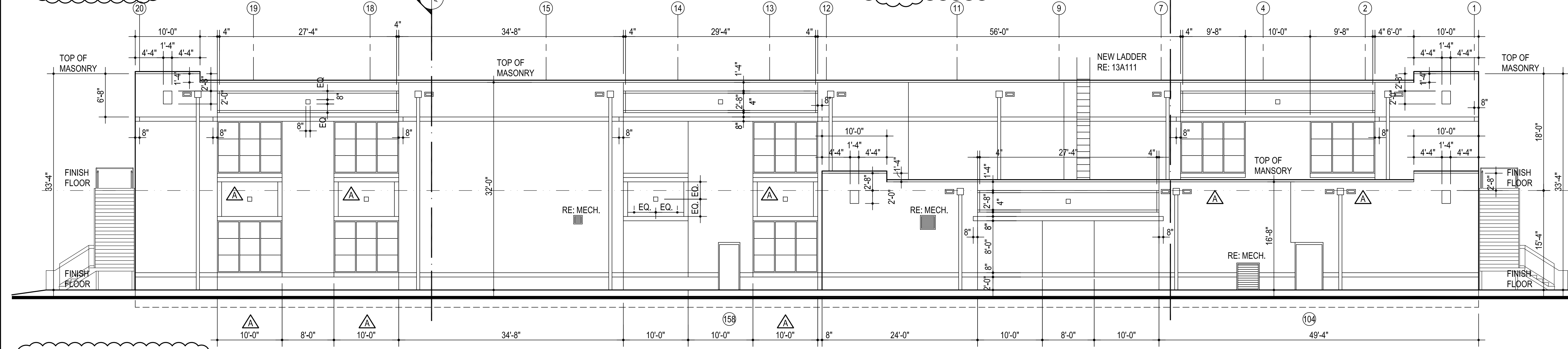
GENERAL NOTES:

1. REFER STRUCTURAL DRAWINGS FOR TOP OF FOOTING ELEVATIONS - PROVIDE ALL MATERIALS REQUIRED FOR WALL SYSTEM TO EXTEND TO TOP OF FOOTING
2. DO NOT SCALE DRAWINGS TO OBTAIN MATERIAL QUANTITIES. USE DRAWINGS WHICH ARE DIMENSIONED OR COORDINATE W/ EXISTING CONDITIONS &/OR ARCHITECT & ENGINEERS.
3. RE: SHEET A202 FOR ADDITIONAL INFORMATION.
4. RE: SHEET A202 FOR ADDITIONAL INFORMATION CONCERNING EXP. & CONTROL JTS @ MASONRY EXTERIORS.

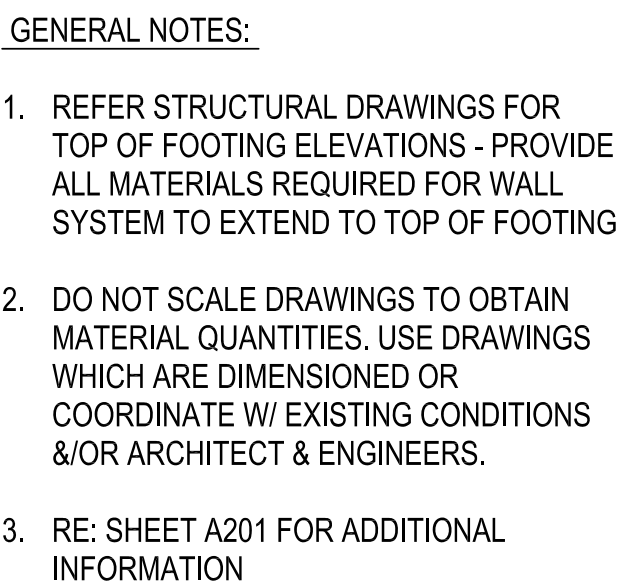


2 NORTH ELEVATION
1/8" = 1'-0"

3 SOUTH ELEVATION
1/8" = 1'-0"



4 WEST ELEVATION
1/8" = 1'-0"



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OLD SCHOOL REPLACEMENT

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A202

ELEVATIONS

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4 WEST ELEVATION - MATERIALS

PROVIDE ALL MATERIALS
TO CONNECT DOWNSPOUTS
TO NEW STORM WATER
SYSTEM. RE: CIVIL



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1 ADDENDUM #1



OLD SCHOOL
REPLACEMENT

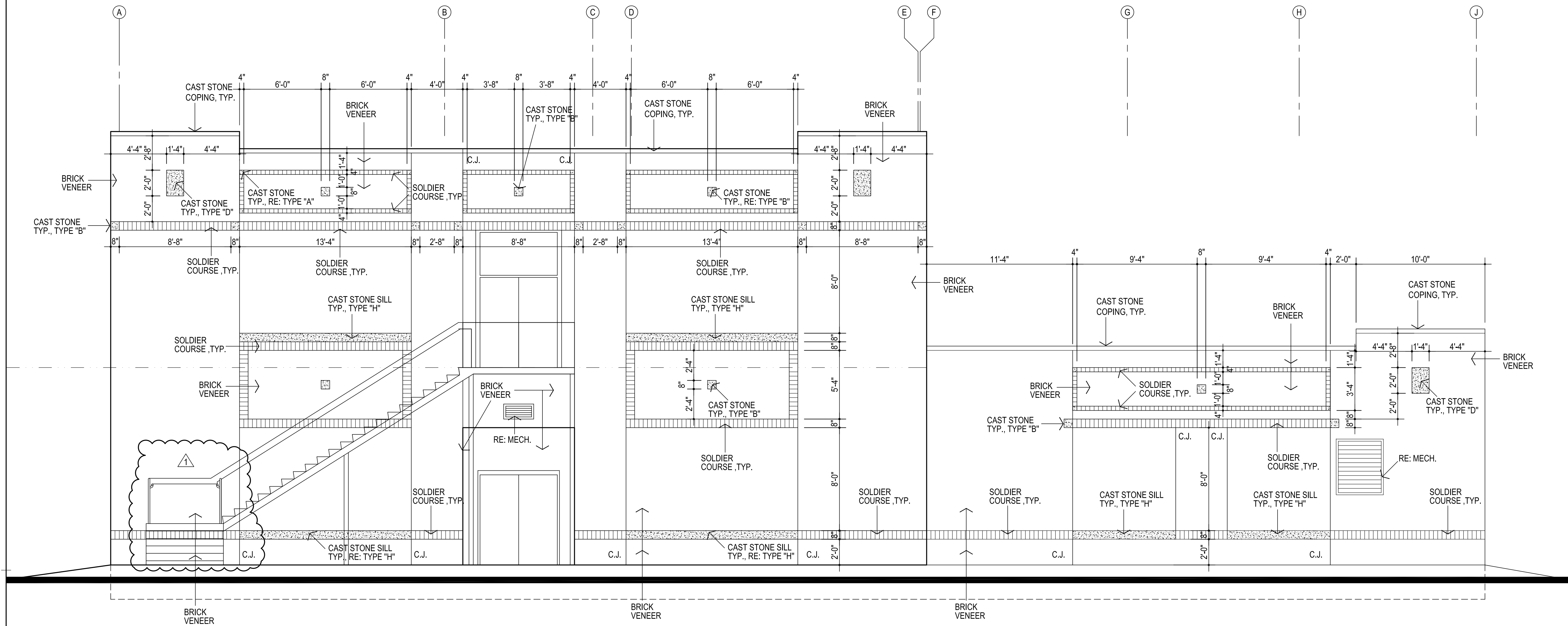
sheet no:

A204

ELEVATIONS

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NORTH ELEVATION
SOUTH ELEVATION OPPOSITE

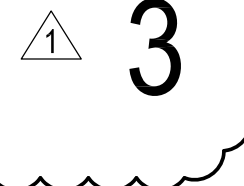
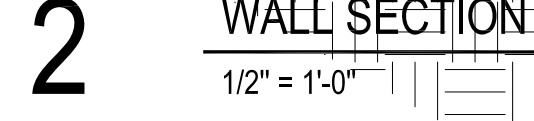
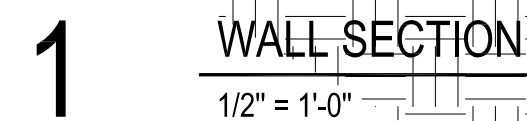
1/4" = 1'-0"

GENERAL NOTES:

1. REFER STRUCTURAL DRAWINGS FOR
TOP OF FOOTING ELEVATIONS - PROVIDE
ALL MATERIALS REQUIRED FOR WALL
SYSTEM TO EXTEND TO TOP OF FOOTING
2. DO NOT SCALE DRAWINGS TO OBTAIN
MATERIAL QUANTITIES. USE DRAWINGS
WHICH ARE DIMENSIONED OR
COORDINATE W/ EXISTING CONDITIONS
&/OR ARCHITECT & ENGINEERS.
3. RE: SHEET A201 & A202 FOR ADDITIONAL
INFORMATION
4. RE: SHEET A202 FOR ADDITIONAL INFORMATION
CONCERNING EXP. & CONTROL JT'S @ MASONRY EXTERIORS.

1. REFER STRUCTURAL DRAWINGS FOR TOP OF FOOTING ELEVATIONS - PROVIDE ALL MATERIALS REQUIRED FOR WALL SYSTEM TO EXTEND TO TOP OF FOOTING
2. DO NOT SCALE DRAWINGS TO OBTAIN MATERIAL QUANTITIES. USE DRAWINGS WHICH ARE DIMENSIONED OR COORDINATE W/ EXISTING CONDITIONS &/OR ARCHITECT & ENGINEERS.
3. PROVIDE LABELING AS PER IBC 703.7 MARKING AND IDENTIFICATION. BE LOCATED WITHIN 15 FEET (4572 MM) OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET (9144 MM) MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION. INCLUDE LETTERING NOT LESS THAN 3 INCHES (76 MM) IN HEIGHT WITH A MINIMUM 3/8-INCH (9.5 MM) STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING, "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS" OR OTHER WORDING.
4. RE: SHEET A100 & A101 FOR PARTITIONS REQUIRED TO CLOSE-OUT TO BOTTOM OF DECKING OR STRUCTURE ABOVE.
5. AT ENTIRE ROOM # 121 DINING ALL PERIMETER GYP BD WALLS CLOSE OUT TO STRIP DECK ABOVE. - PAINT GYP. BD. WALLS, STRUCTURE, DUCTWORK, CONDUIT, "BLACK" - COLOR (7) ABV. 10'-0"

1. REFER STRUCTURAL DRAWINGS FOR TOP OF FOOTING ELEVATIONS - PROVIDE ALL MATERIALS REQUIRED FOR WALL SYSTEM TO EXTEND TO TOP OF FOOTING
2. DO NOT SCALE DRAWINGS TO OBTAIN MATERIAL QUANTITIES. USE DRAWINGS WHICH ARE DIMENSIONED OR COORDINATE W/ EXISTING CONDITIONS &/OR ARCHITECT & ENGINEERS.



1 5

TRIM @ HEAD- F
RADIUS OF TUB

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FC ENGINEERING
STRUCTURAL

ALAS O'BRIEN
MECHANICAL / ELECTRICAL



G
rawn by
A
checked by
NOVEMBER 2025
ate

1 ADDENDUM #1

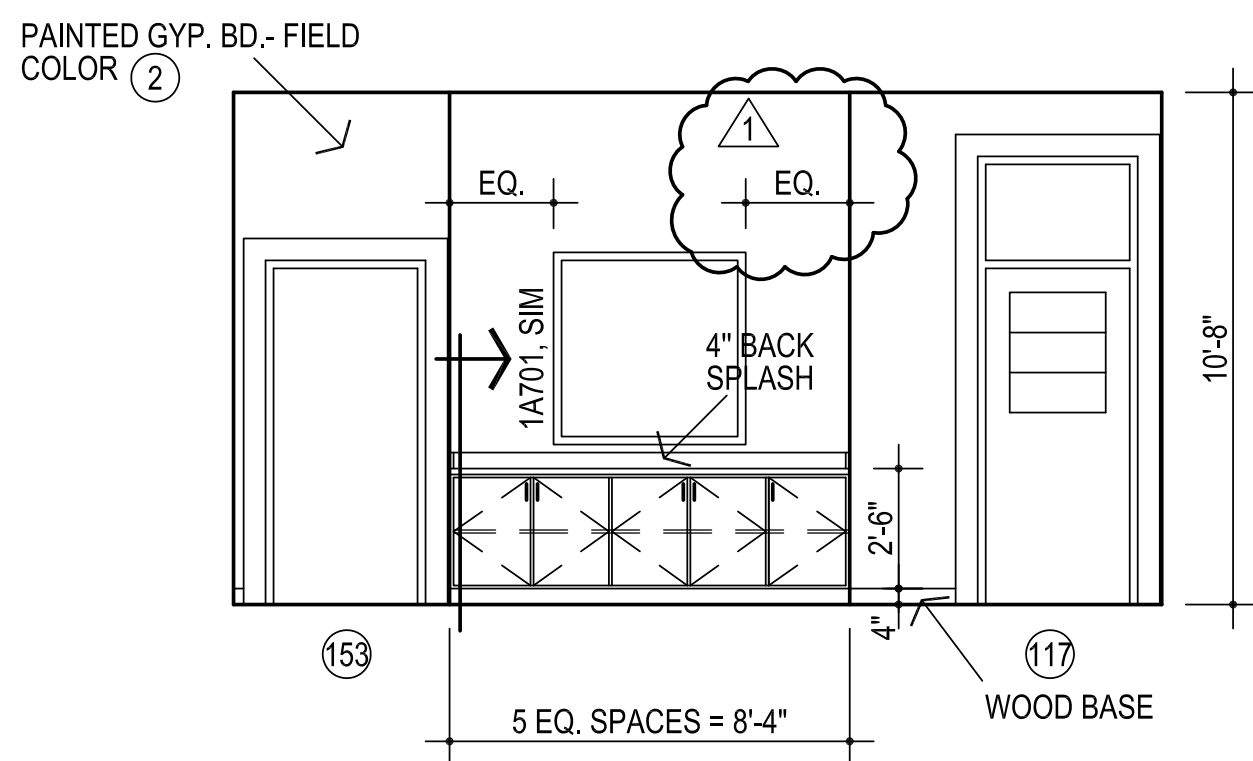


OLD SCHOOL REPLACEMENT

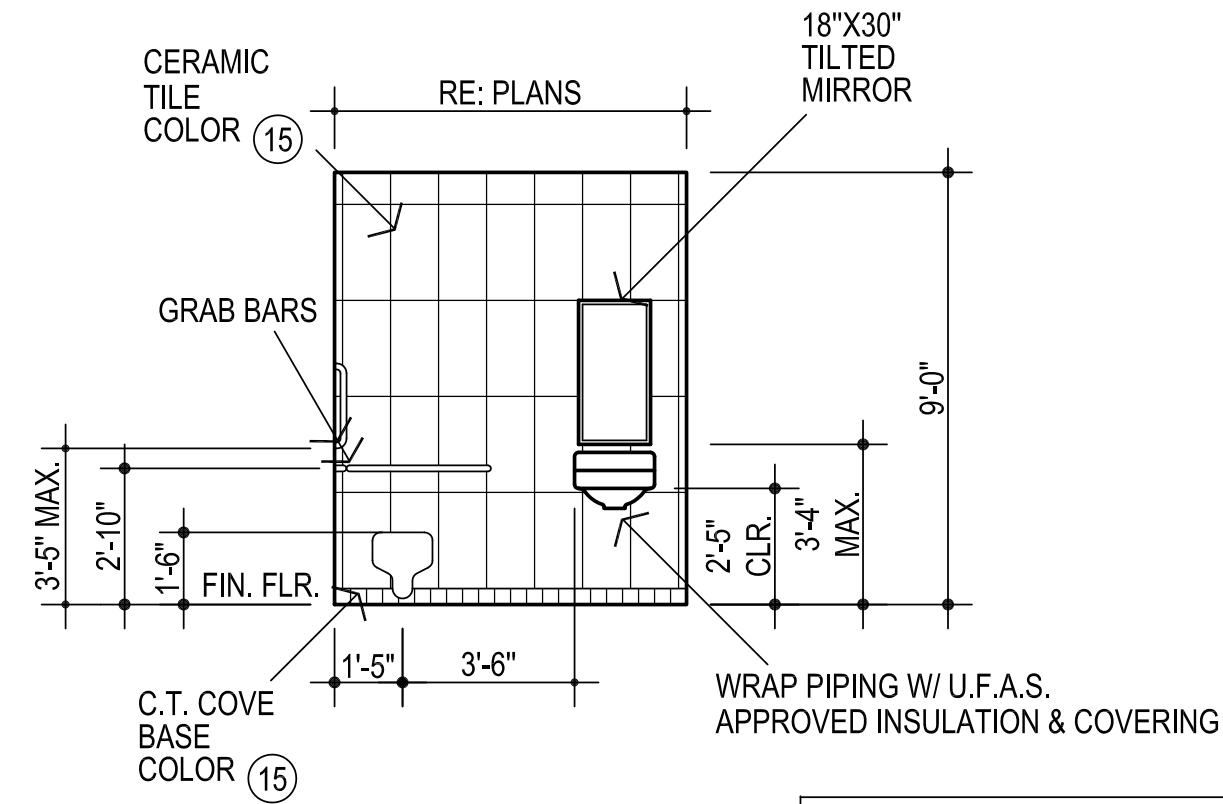
Sheet no:

A307

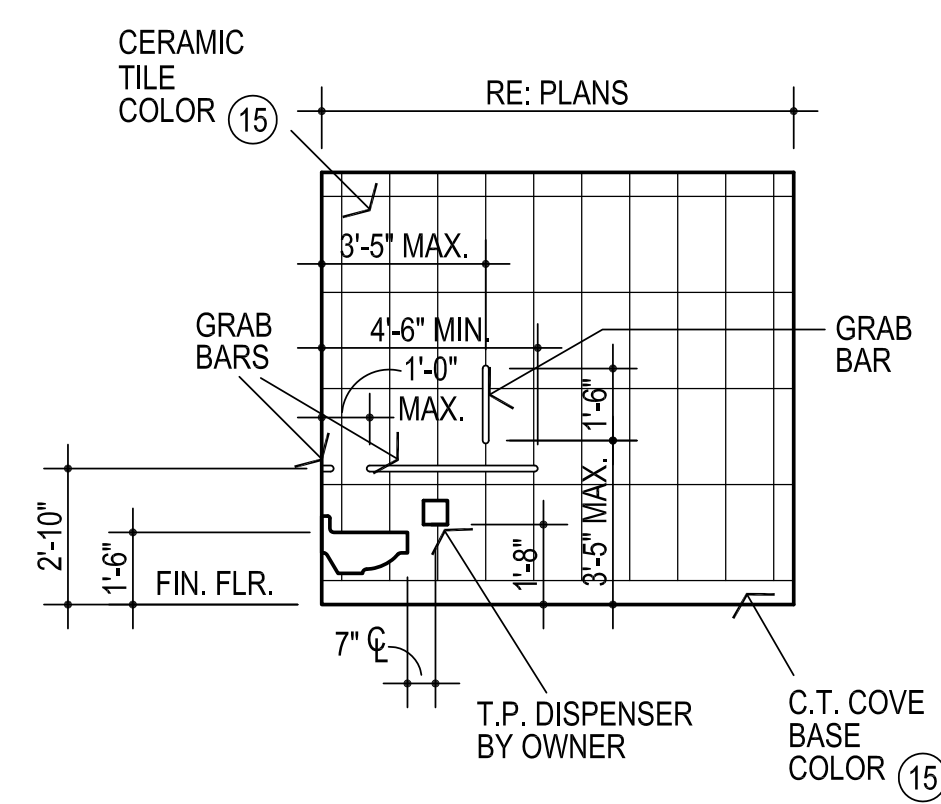
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1 W. WALL ROOM # 110
1/4" = 1'-0"



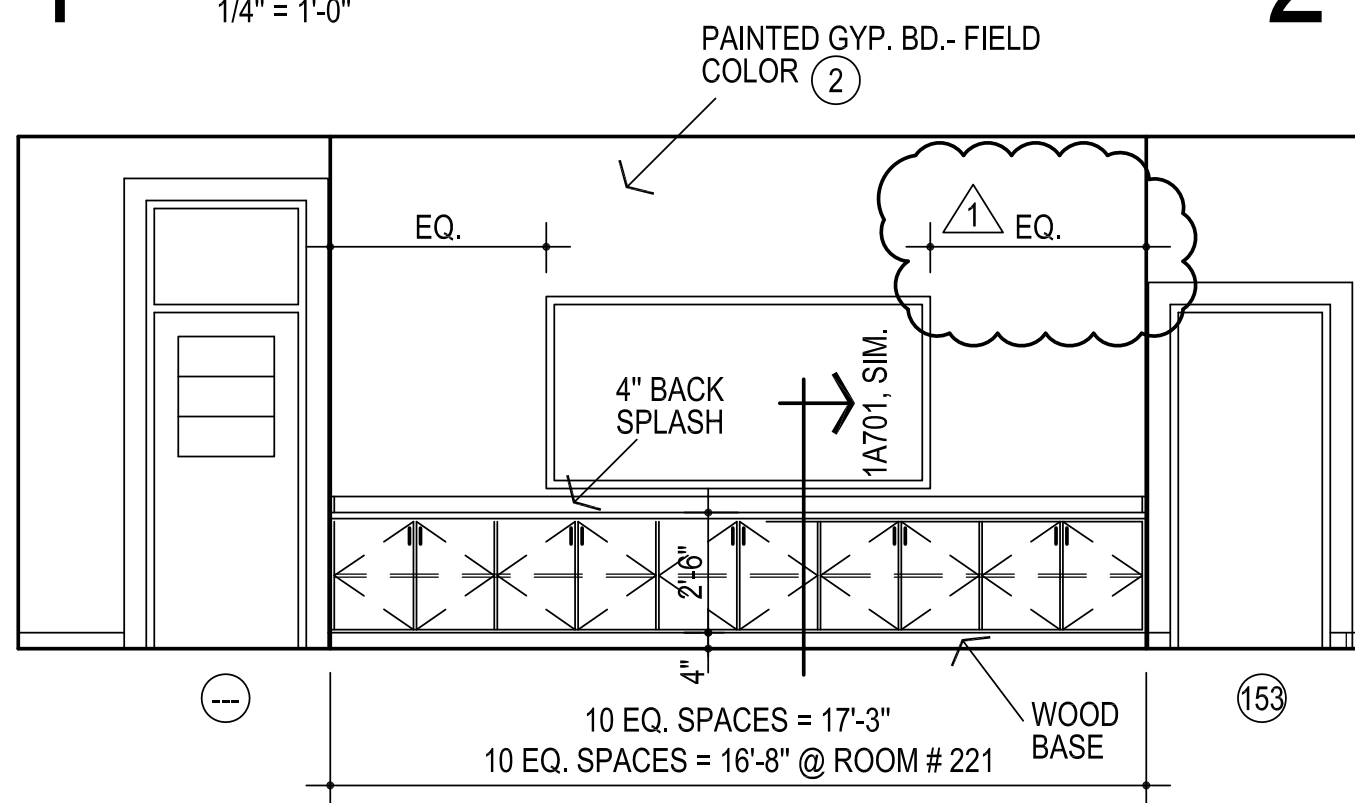
2 TYPICAL SINGLE TOILET
1/4" = 1'-0"



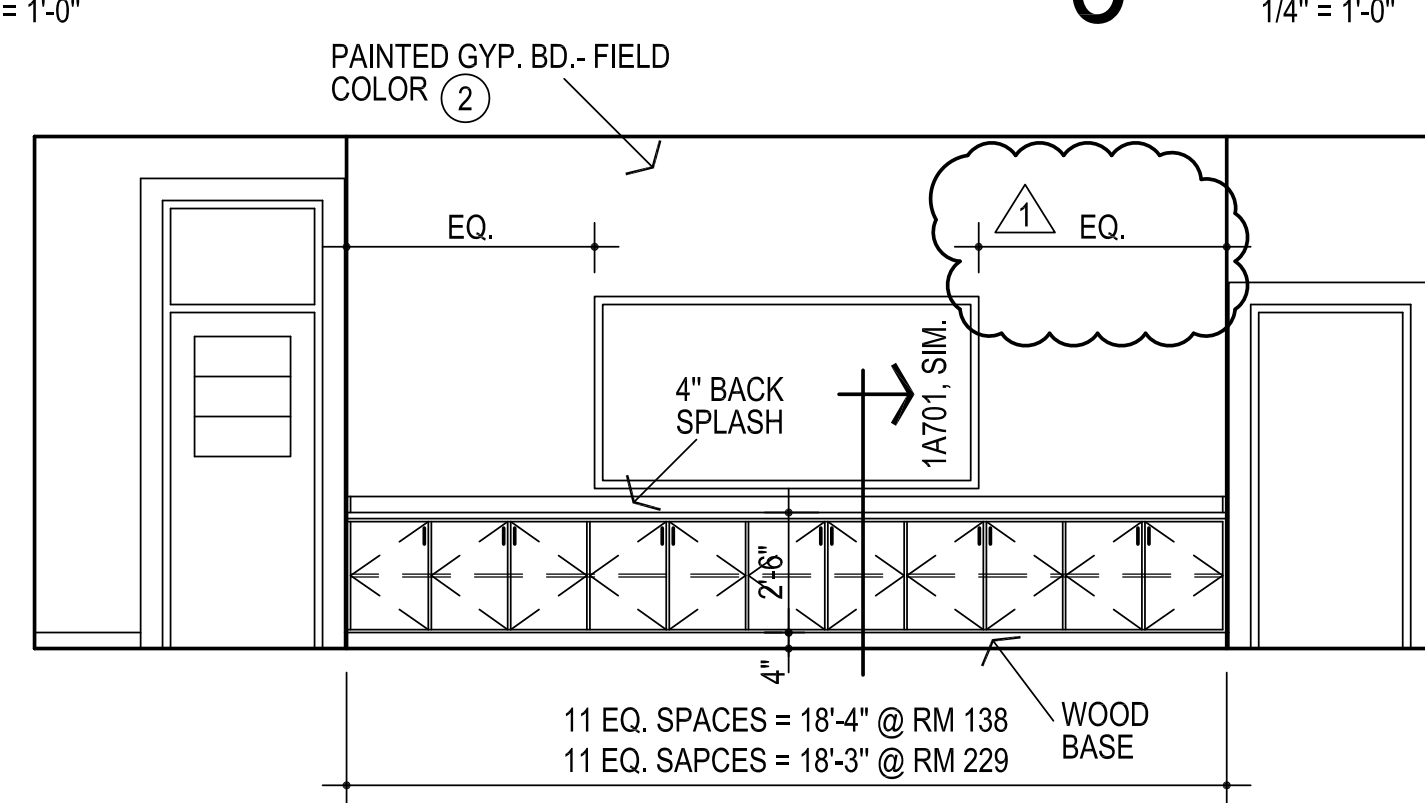
3 HANDICAP ACCESSIBLE W.C.
1/4" = 1'-0"

4 NUMBER NOT USED
1/4" = 1'-0"

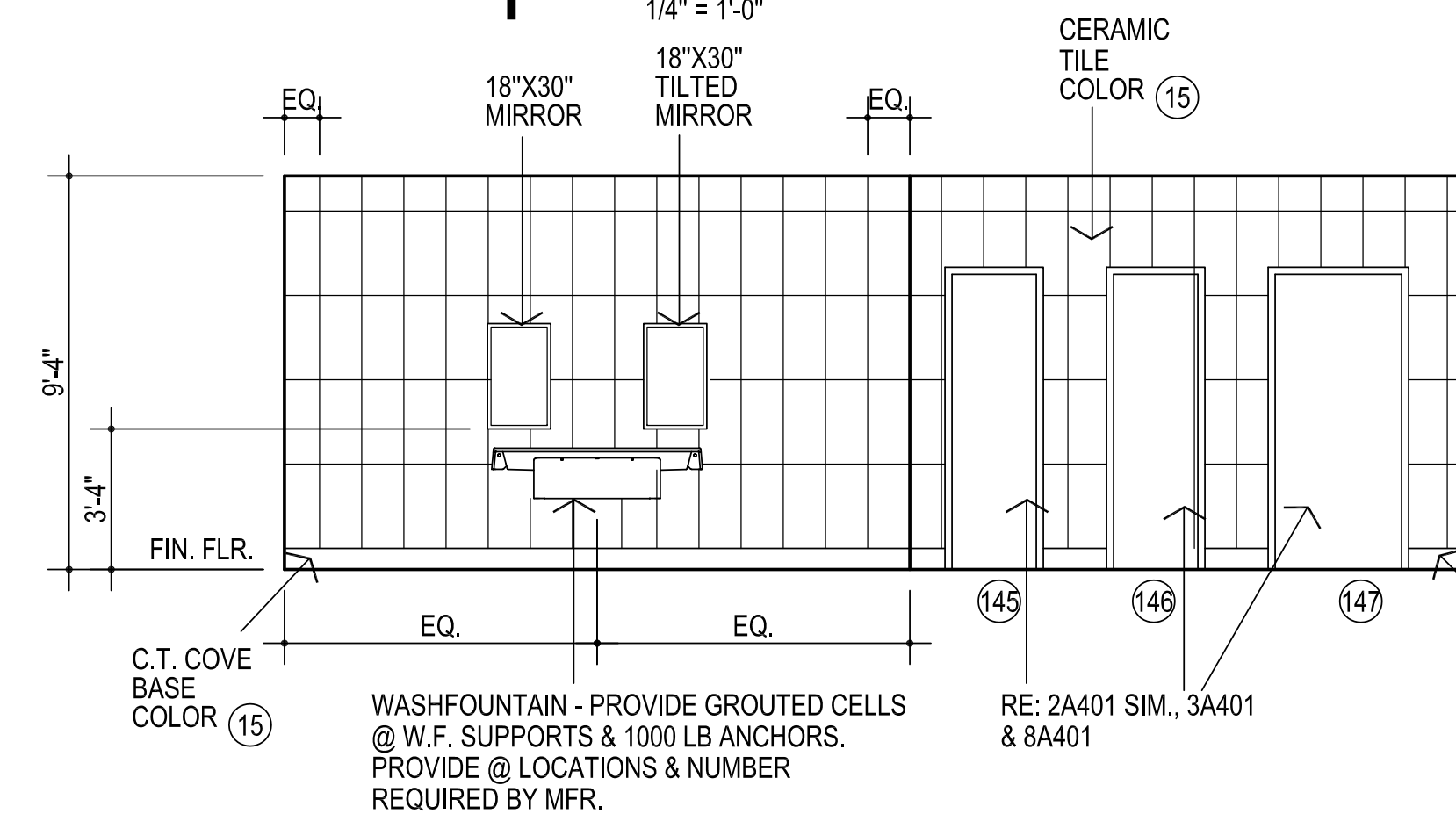
5 TYP. DOUBLE E.W.C.
1/4" = 1'-0"



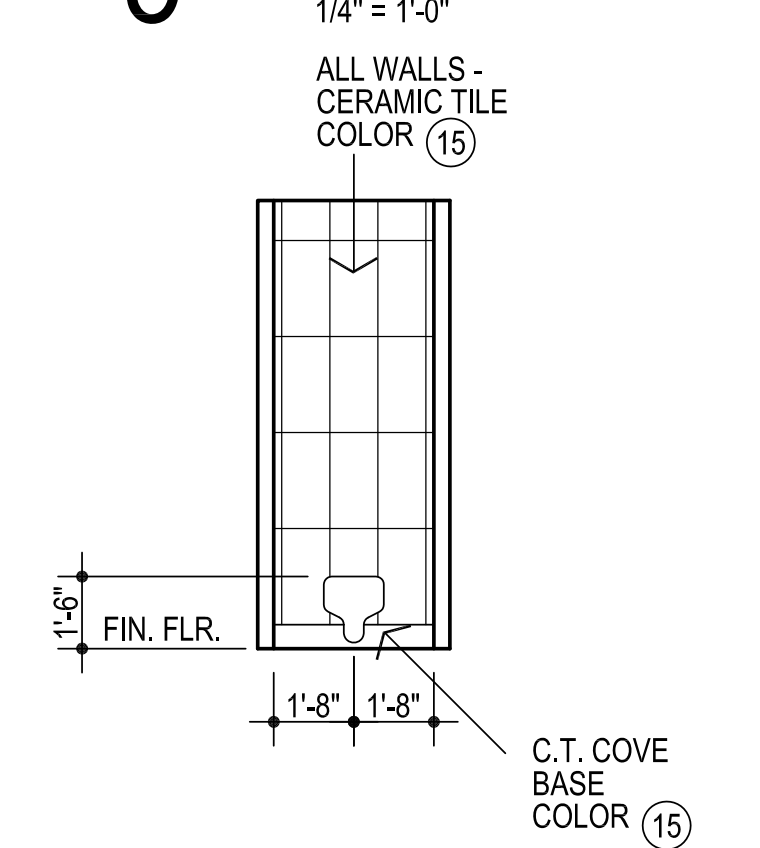
6 E. WALL ROOM # 134
E. WALL ROOM # 135, OPP.
E. WALL ROOM # 221, OPP.
1/4" = 1'-0"



7 W. WALL ROOM # 138 OPP.
E. WALL ROOM # 229
1/4" = 1'-0"



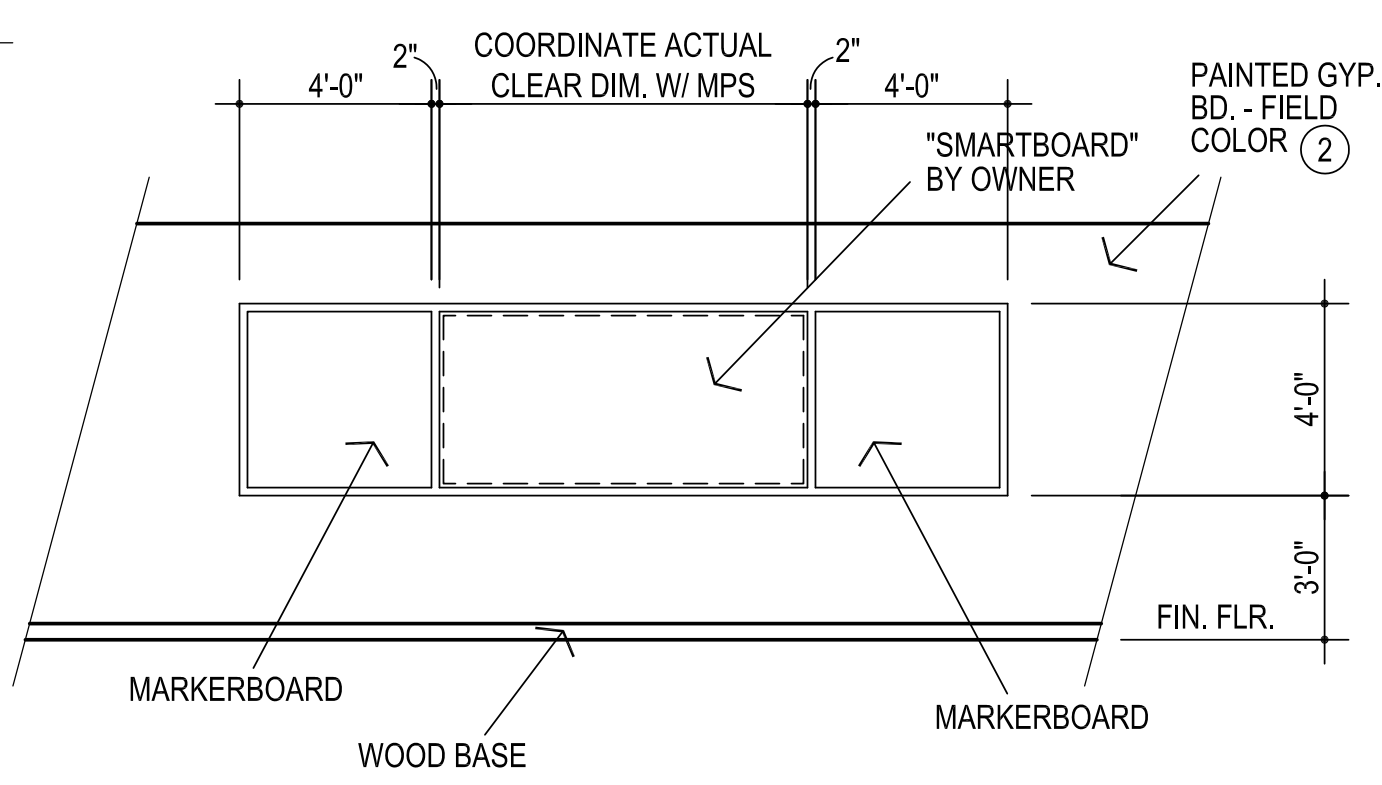
8 N. WALL ROOM # 144
S. WALL ROOM # 144, OPP.
1/4" = 1'-0"



9 TYP. TOILET
1/4" = 1'-0"

NOTE: CONTRACTOR TO VERIFY THAT THE MOUNTING HEIGHTS OF ALL WALL MOUNTED FIXTURES (I.E. PLUMBING FIXTURES, GRAB BARS, MIRRORS, ETC.) MEET ALL APPLICABLE CODES & STANDARDS PRIOR TO INSTALLATION.

CONTRACTOR TO PROVIDE C.T. LAYOUT FOR REVIEW PRIOR TO INSTALLTION OF C.T.

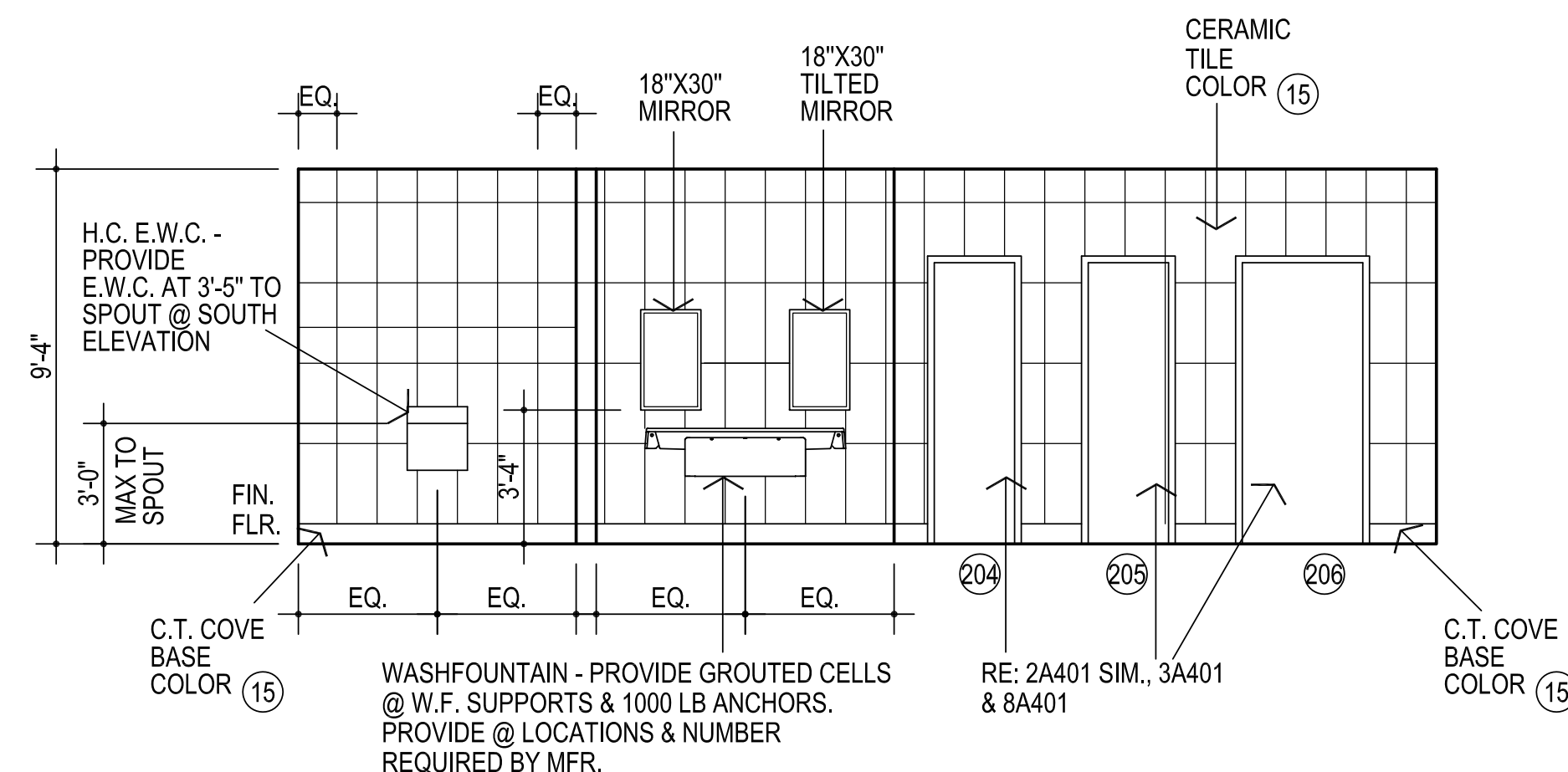


10 ELEV. @ TYP. CLASSROOM
"SMARTBOARD"
1/4" = 1'-0"

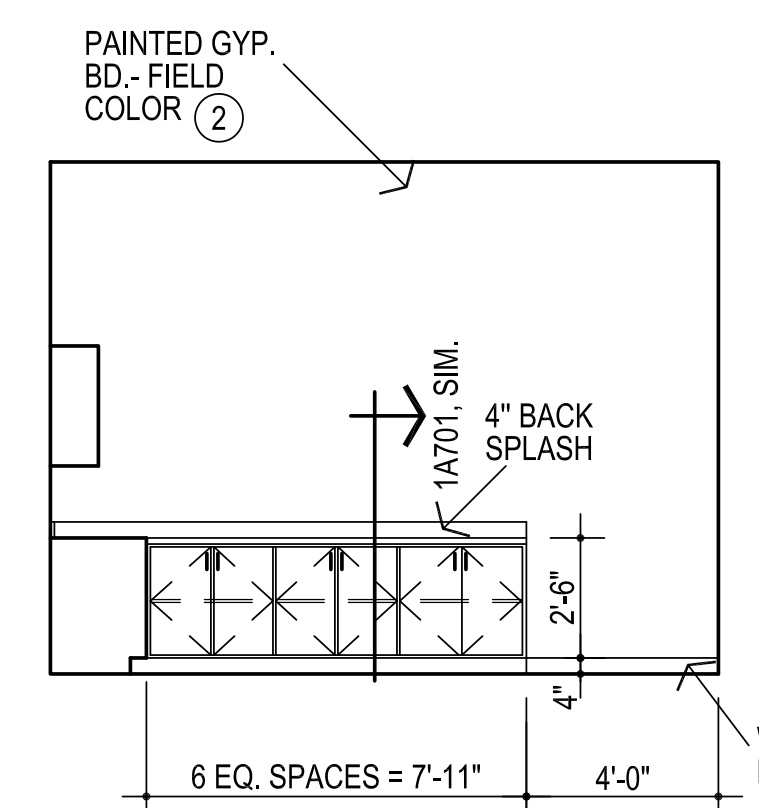
11 TYPICAL MOUNTING HEIGHTS
1/4" = 1'-0"

12 W. WALL ROOM # 201
E. WALL ROOM # 230, OPP.
1/4" = 1'-0"

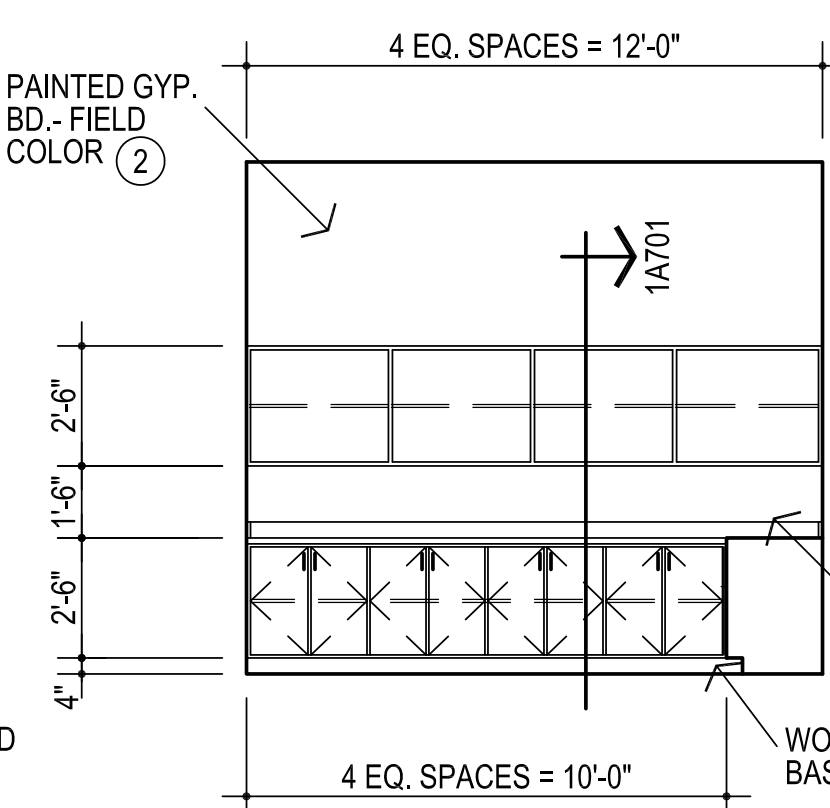
13 W. WALL ROOM # 202
E. WALL ROOM # 220, OPP.
W. WALL ROOM # 228, OPP.
1/4" = 1'-0"



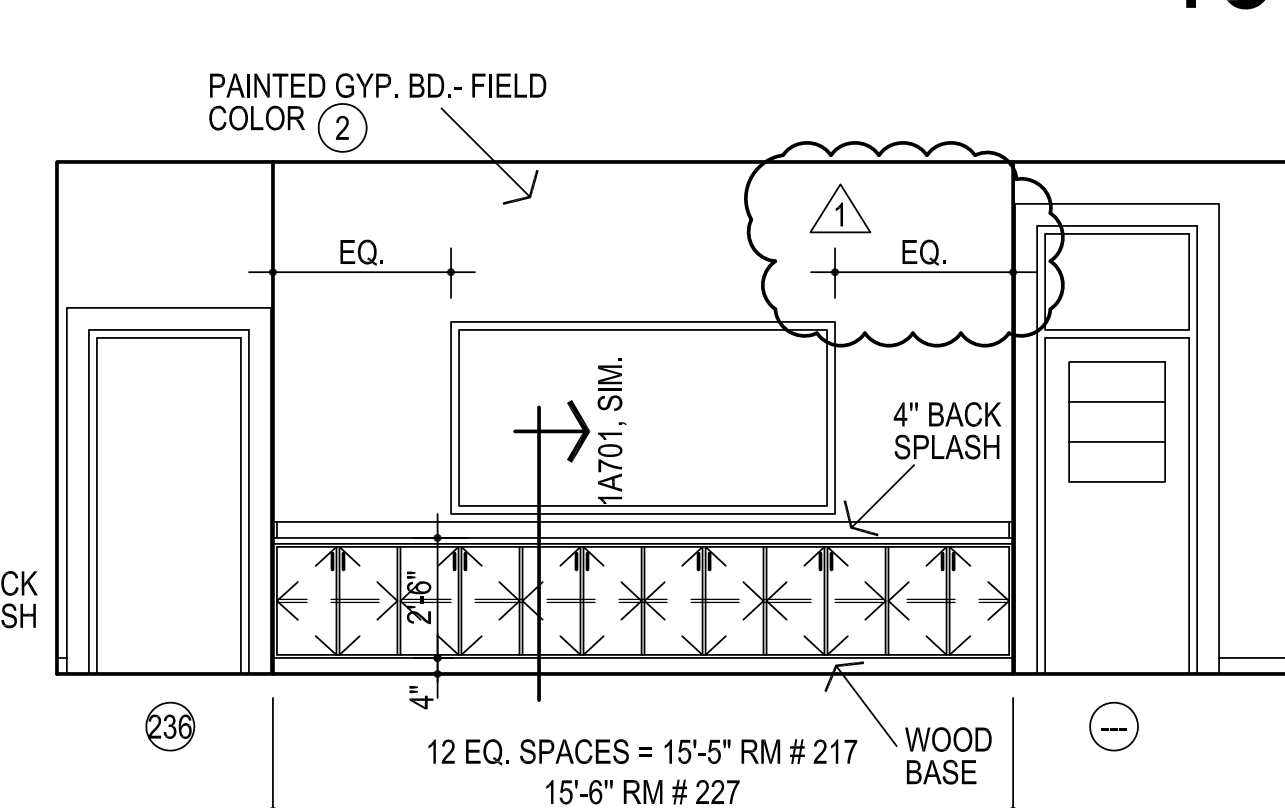
14 N. WALL ROOM # 203, OPP.
S. WALL ROOM # 203
1/4" = 1'-0"



15 W. WALL ROOM # 216
1/4" = 1'-0"



16 S. WALL ROOM # 216
1/4" = 1'-0"

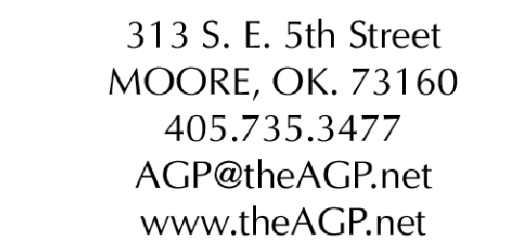


17 W. WALL ROOM # 217
E. WALL ROOM # 227 OPP.
1/4" = 1'-0"

GENERAL NOTES:

- DO NOT SCALE DRAWINGS TO OBTAIN MATERIAL QUANTITIES. USE DRAWINGS WHICH ARE DIMENSIONED OR COORDINATE W/ EXISTING CONDITIONS &/OR ARCHITECT & ENGINEERS.
- NOTE: CONTRACTOR TO VERIFY THAT THE MOUNTING HEIGHTS OF ALL WALL MOUNTED FIXTURES (I.E. PLUMBING FIXTURES, GRAB BARS, MIRRORS, ETC.) MEET ALL APPLICABLE CODES & STANDARDS PRIOR TO INSTALLATION.



KFC ENGINEERING
STRUCTURAL

STATE OF OKLAHOMA
MICHAEL L. ABLA
2639
OKLAHOMA CITY, OKLAHOMA
JUDITH WHITE

12/1/25

CG
drawn by

MA
checked by

NOVEMBER 2025
date

revisions

1 ADDENDUM #1



OLD SCHOOL REPLACEMENT

sheet no: **A601**

ROOM FIN. SCHEDULE

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COORDINATE ALL COLORS & THEIR
LOCATIONS, QUANTITIES, ETC. W/ THE
ARCHITECT PRIOR TO ACQUIRING MATERIALS

PAINT:	
①	GYP. BOARD CEILINGS: SHERWIN-WILLIAMS - SW7006 - EXTRA WHITE
②	WALLS - FIELD: SHERWIN-WILLIAMS - SW7008 - ALABASTER
③	WOOD WAINSCOTTING & WOOD TRIM / BASE: SHERWIN-WILLIAMS - SW7052
④	H.M. DOORS & FRAMES : SHERWIN-WILLIAMS - SW6992 - INKWELL
⑤	MISCELLANEOUS METALS: SHERWIN-WILLIAMS - SW6992 - INKWELL
⑥	WOOD DOORS - CLEAR CL07
⑦	EXTERIOR H.M. DOORS & FRAMES & WINDOWS: SHERWIN-WILLIAMS - SW6992 - INKWELL

2 COLOR SCHEDULE

 MATERIAL ON ALL SURFACES

 MATERIAL ON EACH INDIVIDUAL SURFACE

 MATERIAL ON ALL SURFACES
  IF CIRCLE IS BLACKENED - SURFACE TO RECEIVE PAINTER'S FINISH

 MATERIAL ON EACH INDIVIDUAL SURFACE
  IF CIRCLE IS BLANK - SURFACE OR MATERIAL IS PREFINISHED OR NOT PAINTED

GENERAL NOTE:

PROVIDE CONCRETE HARDENER AT
ALL CHASE / EXPOSED CONC. LOCATIONS

PREFERNISHED COLORS:

- (13) GROUT: COLOR 2 TO BE SELECTED FROM MFR'S STANDARD COLORS
- (14) CERAMIC TILE FLOORS: DAL TILE - SYNCHRONIC - GREY SY33 OR TILEBAR - MARBELLA - GREIGE GRAY
- (15) CERAMIC TILE WALLS & BASE: DAL TILE - SYNCHRONIC - WHITE SY30 OR TILEBAR - MARBELLA - DESERT SAND BEIGE W/ MTL. TRIM @ ALL OUTSIDE CORNERS
- (16) CONCRETE FLOOR STAIN : AMERIPOLISH - ****
- (17) SOLID SURFACE (COUNTERTOPS) :CORIAN - ****
- (18) PLASTIC LAMINATE (FACING AND EDGING) : WILSONART - 7925-38 - MONTICELLO MAPLE
- (19) VINYL "T" EDGING: - TO BE SELECTED FROM MFR'S STANDARD COLORS
- (20) MELAMINE: TO BE SELECTED FROM MFR'S STANDARD COLORS
- (21) 2 X 2 ACOUSTICAL LAY - IN TILES - TEGULAR EDGE : REFER SPECIFICATIONS
- (22) 2 X 2 ACOUSTICAL LAY - IN TILES - KITCHEN ZONE : REFER SPECIFICATIONS
- (23) INTERIOR SIGNAGE: MOHAWK SIGN SYSTEMS - BLACK W/ WHITE LETTERS
- (24) MARKERBOARD: CLARIDGE - NO. 100 - LCS WHITE
- (25) TACKBOARD: CLARIDGE - KB662 - GREY
- (26) STAINLESS STEEL WALL PANELS : REFER SPECIFICATIONS
REFER PLANS FOR LOCATIONS
- (27) QUARRY TILE & BASE :

EXTERIOR COLORS:

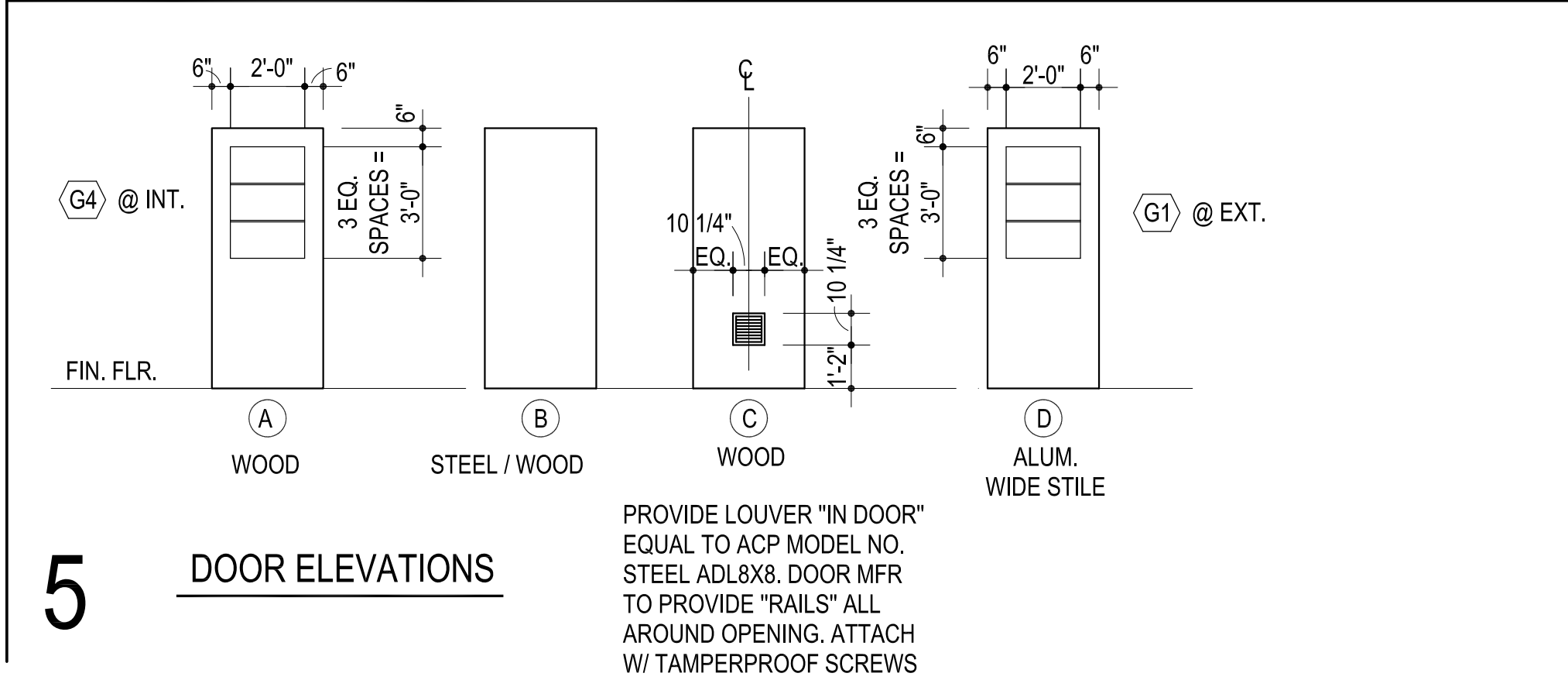
(28)	MASONRY BRICK VENEER - CLOUD CERAMICS - LIGHT IVORY VELOUR
(29)	MASONRY BRICK VENEER - KANAS BRICK AND TILE - 530 FLASH
(30)	PREFINISHED METAL SOFFIT PANEL: COLOR TO BE SELECTED FROM ALL MFR. COLORS - BERRIDGE -
(31)	PREFINISHED METAL COPING: COLOR TO BE SELECTED FROM ALL MFR. COLORS - MATCH PREFINISHED WALL PANELS
(32)	MASONRY MORTAR - COLOR TO BE SELECTED FROM ALL MFR. COLORS

SALVAGED / EXISTING MATERIALS:

- 33 WOOD BASKETBALL FLOORING
- 34 EXTERIOR BRICK VENEER
- 35 EXTERIOR CAST STONE

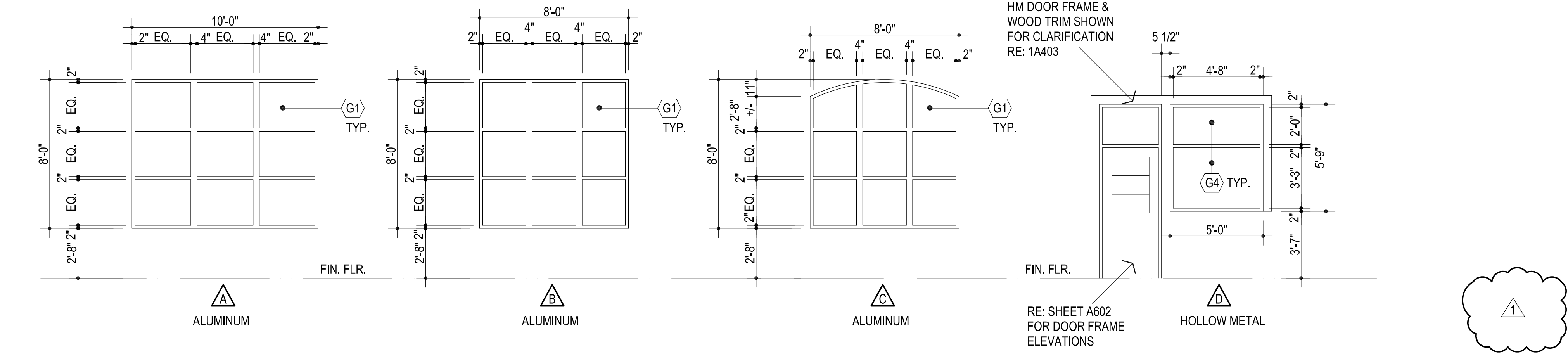
DOOR NO.	LOCATION		DOOR ELEV.	DOOR MAT'L	DOOR SIZE			FRAME ELEV.	DOOR DETAILS				REMARKS	HOWR. SET NO.
	FROM	TO			WIDTH	HEIGHT	TH'K		HEAD	SILL	JAMB	JAMB		
101	101	EXT.	D	ALUM	PR. 3'-0"	7'-0"	1 3/4"	B	31A501	15A501	24A501	24A501	3/4 HOUR DOOR & FRAME	1
102	111	EXT.	D	ALUM	PR. 3'-0"	7'-0"	1 3/4"	B	31A501	15A501	24A501	24A501		1
103	113	EXT.	B	H.M.	4'-0"	7'-0"	1 3/4"	A	1A501	15A501	8A501	8A501		15
104	121	EXT.	B	H.M.	4'-0"	7'-0"	1 3/4"	A	1A501	15A501	8A501	8A501		15
105	---	---	E	STL.	---	7'-4"	---	---	1A502	12A501	2A502	2A502	STORM SHELTER COILING DOOR	---
106	137	EXT.	D	ALUM	PR. 3'-0"	7'-0"	1 3/4"	B	31A501	15A501	24A501	24A501	3/4 HOUR DOOR & FRAME	1
107	NUMBER NOT USED													---
108	111	101	A	WD.	3'-0"	7'-0"	1 3/4"	C	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	14
109	102	101	B	↑	3'-0"	7'-0"	1 3/4"	C	↑	↑	↑	↑	20 MIN. DOOR & FRAME	8
110	102	103	B	↑	3'-0"	7'-0"	1 3/4"	C	↑	↑	↑	↑	20 MIN. DOOR & FRAME	8
111	111	102	A	↓	3'-0"	7'-0"	1 3/4"	C	↓	↓	↓	↓	20 MIN. DOOR & FRAME	13
112	104	111	B	↓	3'-0"	7'-0"	1 3/4"	A	↓	↓	↓	↓	20 MIN. DOOR & FRAME	9
113	105	111	A	↓	3'-0"	7'-0"	1 3/4"	C	↓	↓	↓	↓	20 MIN. DOOR & FRAME	6
114	106	105	B	↓	3'-0"	7'-0"	1 3/4"	A	↓	↓	↓	↓	20 MIN. DOOR & FRAME	4
115	107	108	B	↓	3'-0"	7'-0"	1 3/4"	C	↓	↓	↓	↓	20 MIN. DOOR & FRAME	13
116	107	109	B	↓	3'-0"	7'-0"	1 3/4"	C	↓	↓	↓	↓	20 MIN. DOOR & FRAME	13
117	110	111	A	↓	3'-0"	7'-0"	1 3/4"	C	↓	↓	↓	↓	20 MIN. DOOR & FRAME	6
118	113	114	B	WD.	3'-0"	7'-0"	1 3/4"	A	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	3
119	---	---	E	STL.	---	10'-0"	---	---	1A502	12A501	2A502	2A502	STORM SHELTER COILING DOOR	---
120	115	116	B	WD.	3'-0"	7'-0"	1 3/4"	A	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	3
121	118	117	B	↑	3'-0"	7'-0"	1 3/4"	A	↑	↑	↑	↑	20 MIN. DOOR & FRAME	9
122	118	119	B	↑	3'-0"	7'-0"	1 3/4"	A	↑	↑	↑	↑	20 MIN. DOOR & FRAME	9
123	118	120	B	↑	3'-0"	7'-0"	1 3/4"	A	↑	↑	↑	↑	20 MIN. DOOR & FRAME	8
124	118	121	A	↑	3'-0"	7'-0"	1 3/4"	A	↑	↑	↑	↑	20 MIN. DOOR & FRAME	13
125	121	123	B	↑	3'-0"	7'-0"	1 3/4"	A	↑	↑	↑	↑	20 MIN. DOOR & FRAME	3
126	124	125	B	↓	3'-0"	7'-0"	1 3/4"	A	↓	↓	↓	↓	20 MIN. DOOR & FRAME	9
127	124	126	B	WD.	3'-0"	7'-0"	1 3/4"	A	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	9
128	---	---	E	STL.	---	10'-0"	---	---	1A502	12A501	2A502	2A502	STORM SHELTER COILING DOOR	---
129	147	112	A	WD.	3'-0"	7'-0"	1 3/4"	A	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	12
130	147	112	A	WD.	3'-0"	7'-0"	1 3/4"	A	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	12
131	128	111	D	WD.	3'-0"	7'-0"	1 3/4"	A	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	11
132	---	---	---	STL.	---	10'-0"	---	---	3A501	4A501	3A501	3A501	ELEVATOR DOOR	---
133	131	111	B	WD.	PR. 3'-0"	7'-0"	1 3/4"	A	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	16
134	131	129	B	↑	3'-0"	7'-0"	1 3/4"	A	↑	↑	↑	↑	60 MIN. DOOR & FRAME	3
135	132	111	A	PR.	PR. 3'-0"	7'-0"	1 3/4"	C	↑	↑	↑	↑	20 MIN. DOOR & FRAME	14
136	134	137	A	↑	3'-0"	7'-0"	1 3/4"	C	↑	↑	↑	↑	20 MIN. DOOR & FRAME	6
137	135	137	A	↑	3'-0"	7'-0"	1 3/4"	C	↑	↑	↑	↑	20 MIN. DOOR & FRAME	6
138	138	137	A	↑	3'-0"	7'-0"	1 3/4"	C	↑	↑	↑	↑	20 MIN. DOOR & FRAME	6
139	142	140	B	↑	3'-0"	7'-0"	1 3/4"	A	↑	↑	↑	↑	20 MIN. DOOR & FRAME	3
140	139	140	B	↑	3'-0"	7'-0"	1 3/4"	A	↑	↑	↑	↑	20 MIN. DOOR & FRAME	4
141	137	141	B	↓	3'-0"	7'-0"	1 3/4"	A	↓	↓	↓	↓	20 MIN. DOOR & FRAME	9
142	137	142	B	↓	3'-0"	7'-0"	1 3/4"	C	↓	↓	↓	↓	20 MIN. DOOR & FRAME	6
143	111	137	B	PR.	PR. 3'-0"	7'-0"	1 3/4"	C	↓	↓	↓	↓	20 MIN. DOOR & FRAME	5
144	111	143	B	↓	3'-0"	7'-0"	1 3/4"	A	↓	↓	↓	↓	20 MIN. DOOR & FRAME	3
145	144	144a	C	↓	2'-0"	7'-0"	1 3/4"	A	↓	↓	↓	↓	20 MIN. DOOR & FRAME	9
146	144	144b	C	↓	2'-0"	7'-0"	1 3/4"	A	↓	↓	↓	↓	20 MIN. DOOR & FRAME	9
147	144c	144	C	↓	3'-0"	7'-0"	1 3/4"	A	↓	↓	↓	↓	20 MIN. DOOR & FRAME	9
148	144d	144	C	↓	3'-0"	7'-0"	1 3/4"	A	↓	↓	↓	↓	20 MIN. DOOR & FRAME	9
149	144	144e	C	↓	2'-0"	7'-0"	1 3/4"	A	↓	↓	↓	↓	20 MIN. DOOR & FRAME	9
150	144	144f	C	↓	2'-0"	7'-0"	1 3/4"	A	↓	↓	↓	↓	20 MIN. DOOR & FRAME	9
151	CHS	111	B	↓	2'-8"	7'-0"	1 3/4"	A	↓	↓	↓	↓	20 MIN. DOOR & FRAME	3
152	145	111	A	↓	3'-0"	7'-0"	1 3/4"	C	↓	↓	↓	↓	20 MIN. DOOR & FRAME	13
153	---	---	B	↓	3'-0"	7'-0"	1 3/4"	A	↓	↓	↓	↓	20 MIN. DOOR & FRAME	4
154	CHS	111	B	↓	2'-8"	7'-0"	1 3/4"	A	↓	↓	↓	↓	20 MIN. DOOR & FRAME	3
155	111	136	B	↓	3'-0"	7'-0"	1 3/4"	A	↓	↓	↓	↓	20 MIN. DOOR & FRAME	3
156	133	111	A	↓	3'-0"	7'-0"	1 3/4"	C	↓	↓	↓	↓	20 MIN. DOOR & FRAME	13
157	133	111	A	WD.	3'-0"	7'-0"	1 3/4"	C	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	13
158	146	EXT.	A	H.M.	3'-0"	7'-0"	1 3/4"	A	1A501	15A501	8A501	8A501	20 MIN. DOOR & FRAME	15
159	147	127	A	WD.	PR. 3'-0"	7'-0"	1 3/4"	C	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	5
160	---	---	F	STL.	---	10'-0"	---	---	6A501	---	13A501	13A501	COILING DOOR	---
161	---	---	G	STL.	---	10'-0"	---	---	6A501	---	13A501	13A501	COILING DOOR	---
162	---	121	B	H.M.	3'-0"	7'-0"	1 3/4"	A	3A502	6A502	5A502	5A502	20 MIN. DOOR & FRAME	17
163	---	122	B	H.M.	3'-0"	7'-0"	1 3/4"	A	3A502	4A502	5A502	5A502	20 MIN. DOOR & FRAME	17
164	122	121	B	WD.	PR. 3'-0"	7'-0"	1 3/4"	A	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	16

1 FIRST FLOOR DOOR SCHEDULE



5 DOOR ELEVATIONS

DOOR NO.	LOCATION		DOOR ELEV.	DOOR MAT'L	DOOR SIZE			FRAME ELEV.	DOOR DETAILS				REMARKS	HOWR. SET NO.
	FROM	TO			WIDTH	HEIGHT	TH'K		HEAD	SILL	JAMB	JAMB		
201	201	218	A	WD.	3'-0"	7'-0"	1 3/4"	C	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	6
202	202	218	A	↑	3'-0"	↑	↑	C	↑	↑	↑	↑	20 MIN. DOOR & FRAME	6
203	CHS	218	B		2'-0"			A						3
204	203	203a	C		2'-0"			A						9
205	203	203b	C		2'-0"			A						9
206	203c	203	C		3'-0"			A						9
207	203d	203	C		3'-0"			A						9
208	203	203e	C		2'-0"			A						9
209	203	203f	C		2'-0"			A						9
210	CHS	218	B		2'-0"			A						3
211	206	205	B		3'-0"			A					20 MIN. DOOR & FRAME	3
212	206	204	B		↑			C					20 MIN. DOOR & FRAME	13
213	206	207	B					C					20 MIN. DOOR & FRAME	13
214	206	208	B					C					20 MIN. DOOR & FRAME	13
215	209	218	A					C					20 MIN. DOOR & FRAME	8
216	210	218	B					A					20 MIN. DOOR & FRAME	9
217	212	211	B					C					20 MIN. DOOR & FRAME	8
218	212	213	B					C					20 MIN. DOOR & FRAME	8
219	212	214	B					C					20 MIN. DOOR & FRAME	8
220	216	215	B					C					20 MIN. DOOR & FRAME	8
221	212	218	A	↓	↓			C	↓	↓	↓	↓		13
222	217	218	A	WD.	3'-0"			C	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	6
223	218	EXT.	D	ALUM	PR. 3'-0"			B	31A501	15A501	24A501	24A501		2
224	220	218	A	WD.	3'-0"			C	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	6
225	221	218	A	WD.	3'-0"	↓	↓	C	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	6
226	218	222	D	WD.	3'-0"	7'-0"	1 3/4"	A	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	11
227	---	---	---	STL.	---	---	---	---	3A501	4A501	3A501	3A501	ELEVATOR DOOR	---
228	225	224	B	WD.	3'-0"	7'-0"	1 3/4"	A	2A501	16A501	9A501	9A501		3
229	225	218	B	↑	↑	↑	↑	A	↑	↑	↑	↑	20 MIN. DOOR & FRAME	10
230	218	226	B					A					20 MIN. DOOR & FRAME	3
231	227	218	A					C					20 MIN. DOOR & FRAME	6
232	228	218	A					C					20 MIN. DOOR & FRAME	6
233	229	218	A	↓	↓			C	↓	↓	↓	↓	20 MIN. DOOR & FRAME	6
234	230	218	A	WD.	3'-0"			C	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	6
235	218	EXT	D	ALUM	PR. 3'-0"			B	31A501	15A501	24A501	24A501		2
236	---	---	B	WD.	3'-0"				2A501	16A501	9A501	9A501	12 LOCATIONS	4
237	CHS	218	B	WD.	2'-0"	↓	↓	A	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	3
238	212	231	B	WD.	3'-0"	7'-0"	1 3/4"	C	2A501	16A501	9A501	9A501	20 MIN. DOOR & FRAME	8
239	---	---	G	STL.					6A501		13A501	13A501	COILING DOOR	---

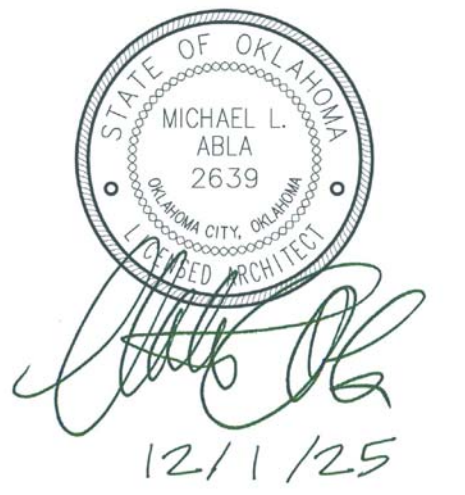


1 WINDOW ELEVATIONS

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MECHANICAL / ELECTRICAL



CG
drawn by
MA
checked by
NOVEMBER 2025
date
revisions
1 ADDENDUM #1



OLD SCHOOL
REPLACEMENT

sheet no:
A603

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ADDENDUM 01

Issue Date: March 27, 2026

Project Information

Client: Abila Griffin Partnership
Project Name: Old School Replacement
Project Location: Moore, OK
Owner: Moore Public Schools
Engineer: Salas O'Brien, Inc

Project No. 2550-01871-00



To Prospective Bidders

▲ This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated February 6, 2026, (and previous Addenda), with amendments and additions noted below.

▲ This Addendum consists of (2) pages and (10) attachments.

- Index of Attachments

- | | |
|--------|------|
| • F101 | M102 |
| • F102 | M601 |
| • P601 | T201 |
| • E101 | T603 |
| • M101 | T604 |

▲ Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may disqualify Bidder.

CHANGES TO THE DRAWINGS

Revisions have been made to the following drawings and are issued in the form of full-size plans. Edits are indicated by a revision delta and a cloud surrounding the affected portion of the drawing.

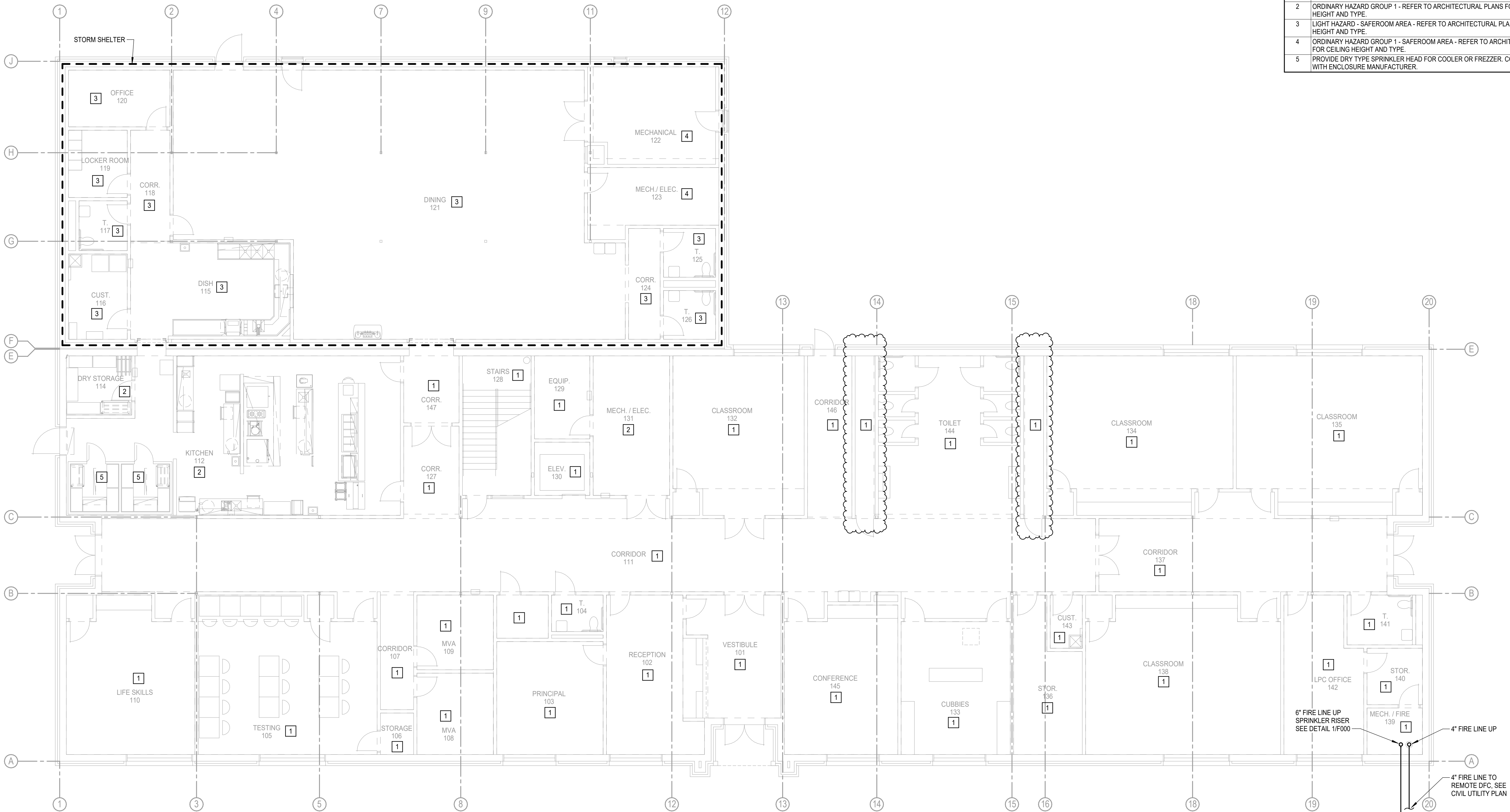
▲ F101 FIRE PROTECTION PLAN – FIRST FLOOR

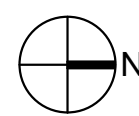
- Refer to clouds and deltas for changes on plans.



- ▲ F102 FIRE PROTECTION PLAN - SECOND FLOOR
 - Refer to clouds and deltas for changes on plans.
- ▲ P601 PLUMBING SCHEDULES
 - Refer to clouds and deltas for changes on plans.
- ▲ E101 ELECTRICAL LIGHTING PLAN – FIRST FLOOR
 - Refer to clouds and deltas for changes on plans.
- ▲ M101 MECHANICAL PLAN – FIRST FLOOR
 - Refer to clouds and deltas for changes on plans.
- ▲ M102 MECHANICAL PLAN – SECOND FLOOR
 - Refer to clouds and deltas for changes on plans.
- ▲ M601 MECHANICAL SCHEDULES
 - Refer to clouds and deltas for changes on plans.
- ▲ T201 TECHNOLOGY PLAN -FIRST FLOOR
 - Refer to clouds and deltas for changes on plans.
- ▲ T603 TECHNOLOGY SHEET SPECIFICATIONS
 - Refer to clouds and deltas for changes on plans.
- ▲ T604 TECHNOLOGY SHEET SPECIFICATIONS
 - Refer to clouds and deltas for changes on plans.

END OF ADDENDUM 01



 **1 FIRE PROTECTION PLAN - FIRST FLOOR**
Scale: 1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
2. REFER TO GENERAL NOTES ON SHEET F000.
3. COORDINATE FIRE DEPARTMENT CONNECTION LOCATIONS WITH LOCAL FIRE DEPARTMENT OR AHJ.
4. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
5. REFER TO ARCHITECTURAL PLANS FOR CEILING TYPE AND HEIGHTS.
6. SEMI-RECESSED PENDANT SPRINKLER HEADS IN LAY-IN AND HARD CEILINGS SHALL HAVE WHITE FINISH. EXPOSED UPRIGHT HEADS SHALL BE BRASS WITH WIRE GUARDS.
7. FIRE SEAL ALL PENETRATIONS THRU RATED STRUCTURES TO MAINTAIN FIRE RATING.
8. COORDINATE INSPECTORS TEST DRAIN LOCATION WITH ALL TRADES ON SITE.
9. CONTRACTOR SHALL COORDINATE ALL STORM SHELTER WALL AND ROOF PENETRATIONS WITH STRUCTURAL. REFER TO STRUCTURAL DETAIL SHEET FOR PENETRATION PROTECTION FOR RECTANGULAR OPENINGS GREATER THAN 3.5 SQUARE INCHES AND CIRCULAR OPENINGS GREATER THAN 2.125 INCHES PER 2014 ICC-500.

KEYED NOTES

- | | |
|---|---|
| 1 | LIGHT HAZARD - REFER TO ARCHITECTURAL PLANS FOR CEILING HEIGHT AND TYPE. |
| 2 | ORDINARY HAZARD GROUP 1 - REFER TO ARCHITECTURAL PLANS FOR CEILING HEIGHT AND TYPE. |
| 3 | LIGHT HAZARD - SAFEROOM AREA - REFER TO ARCHITECTURAL PLANS FOR CEILING HEIGHT AND TYPE. |
| 4 | ORDINARY HAZARD GROUP 1 - SAFEROOM AREA - REFER TO ARCHITECTURAL PLANS FOR CEILING HEIGHT AND TYPE. |
| 5 | PROVIDE DRY TYPE SPRINKLER HEAD FOR COOLER OR FREEZER. COORDINATE TYPE WITH ENCLOSURE MANUFACTURER. |

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KS

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FEBRUARY 2026

date

REVISIONS

Δ	DESCRIPTION	DATE
1	ADD 01	03/26/2026



OLD SCHOOL
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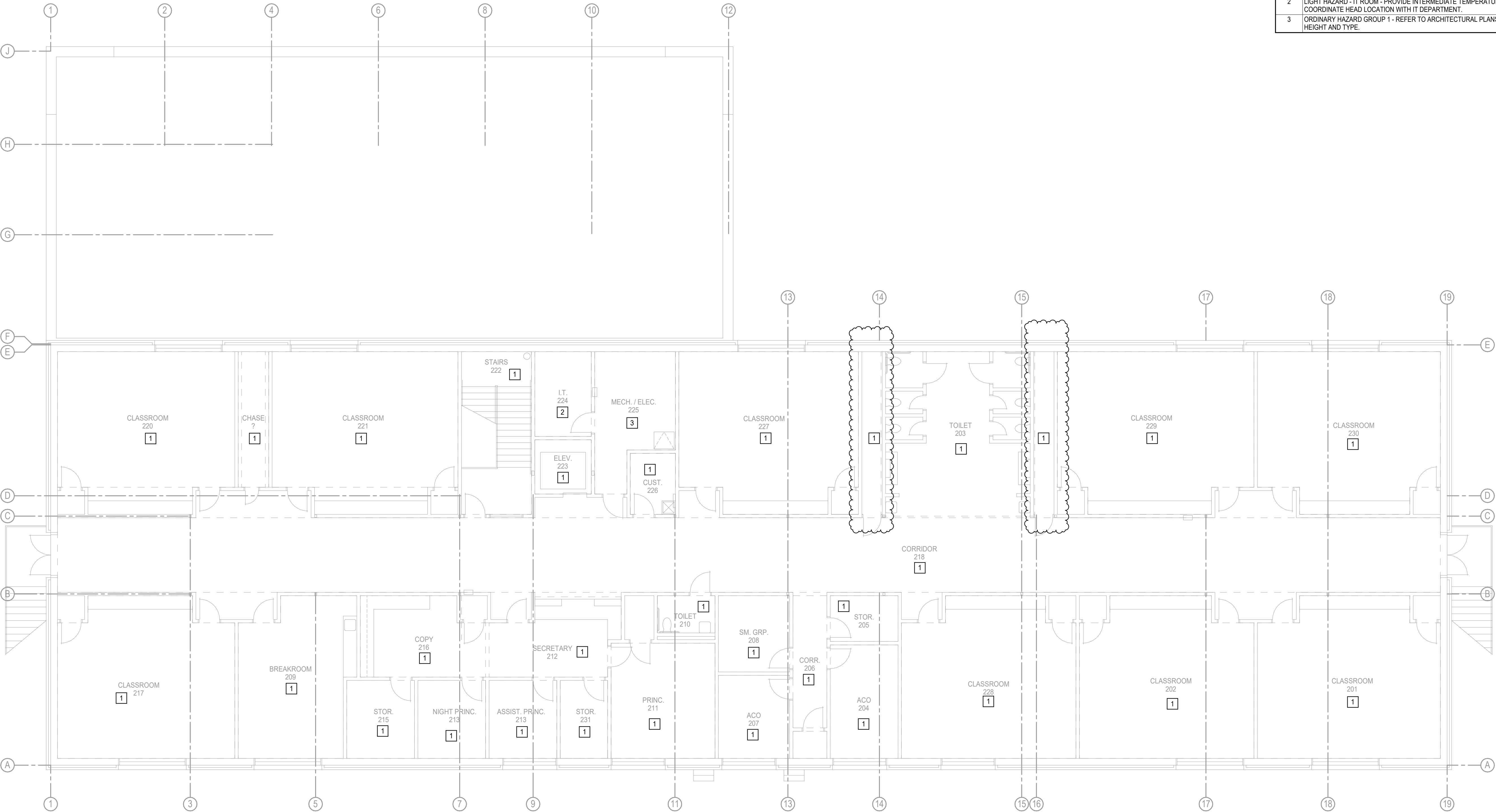
Oklahoma City
2900 S. Telephone Road, suite 120
Moore, OK 73160
CA# 7058 Expiration Date: 06/30/27
Salas O'Brien Project Number: 2550-01554-00

GENERAL NOTES

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KEYED NOTES

- | | |
|---|--|
| 1 | LIGHT HAZARD - REFER TO ARCHITECTURAL PLANS FOR CEILING HEIGHT AND TYPE. |
| 2 | LIGHT HAZARD - IT ROOM - PROVIDE INTERMEDIATE TEMPERATURE TYPE HEADS. COORDINATE HEAD LOCATION WITH IT DEPARTMENT. |
| 3 | ORDINARY HAZARD GROUP 1 - REFER TO ARCHITECTURAL PLANS FOR CEILING HEIGHT AND TYPE. |



FIRE PROTECTION PLAN - SECOND FLOOR
Scale: 1/8" = 1'-0"

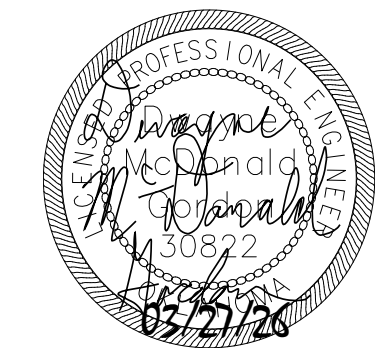
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KS
drawn by
KP
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FEBRUARY 2026
date

REVISIONS		
Δ	DESCRIPTION	DATE
1	ADD 01	03/26/2026



OLD SCHOOL
REPLACEMENT

sheet no:

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Oklahoma City
2900 S. Telephone Road, suite 120
Moore, OK 73160
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GAS LOAD TABLE					
MARK	INPUT (MBH)	REQUIRED PRESSURE	REQUIRED REGULATOR	SYSTEM PRESSURE	NOTES
F-1	40 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-2	100 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-3	100 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-4	100 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-5	40 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-6	80 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-7	40 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-8	80 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-9	80 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-10	-	-	-	-	-
F-11	-	-	-	-	-
F-12	-	-	-	-	-
F-13	80 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-14	80 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-15	80 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-16	80 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-17	60 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-18	80 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-19	60 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-20	80 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-21	40 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-22	100 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-23	100 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
F-24	100 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
DRYER	50 MBH	7"	MAXITROL 325-3L	2 PSI	ALL
KITCHEN	180 MBH	10"	MAXITROL 325-3L	2 PSI	ALL
DOAS-1	155 MBH	7"	MAXITROL 325-3LB	2 PSI	ALL
GWH-1	400 MBH	7"	MAXITROL 325-5L	2 PSI	ALL
GWH-2	400 MBH	7"	MAXITROL 325-5L	2 PSI	ALL
GWH-3	600 MBH	7"	MAXITROL 325-5L	2 PSI	ALL
GWH-4	600 MBH	7"	MAXITROL 325-5L	2 PSI	ALL
GWH-5	600 MBH	7"	MAXITROL 325-5L	2 PSI	ALL
DH-1	350 MBH	7"	MAXITROL 325-5L	2 PSI	ALL
TOTAL MBH:	3335 MBH				
NOTES:					
1. INSTALL AND VENT REGULATOR PER MANUFACTURER'S RECOMMENDATIONS.					
2. COORDINATE WITH MECHANICAL CONTRACTOR OR KITCHEN EQUIPMENT CONTRACTOR FOR EQUIPMENT LOCATIONS AND REQUIRED CONNECTION.					
3. PROVIDE VENT LIMITING DEVICE FOR INDOOR REGULATORS. PROVIDE VENT PROTECTOR FOR REGULATORS LOCATED OUTSIDE.					
4. GAS SYSTEM DESIGN MAIN BUILDING: INITIAL METER OUTLET PRESSURE OF 2 PSIG WITH PRESSURE DROP OF 1 PSIG AND TOTAL LENGTH OF 500 FEET.					
5. GAS SYSTEM DESIGN STORM SHELTER: INITIAL METER OUTLET PRESSURE OF 2 PSIG WITH PRESSURE DROP OF 1 PSIG AND TOTAL LENGTH OF 450 FEET.					

PLUMBING KITCHEN EQUIPMENT SCHEDULE							
ITEM	DESCRIPTION	INDIRECT DRAIN	DIRECT DRAIN	VENT	CW	HW	GAS
11	ICEMAKER	3/4"	-	-	1/2"	-	-
12	PREP TABLE	2"	-	-	1/2"	1/2"	-
16	HAND SINK	-	2"	1 1/2"	1/2"	1/2"	-
18	WORK TABLE SINK	2"	-	-	1/2"	1/2"	-
23	COMBI-OVEN	3/4"	-	-	1/2"	-	-
24	KETTLE	-	-	-	1/2"	1/2"	-
25	RANGE	-	-	-	-	-	3/4" 70 MBH
26	CONVECTION OVEN	-	-	-	-	-	(2) 3/4" 55 MBH
32	COOKS TABLE SINK	2"	-	-	1/2"	1/2"	-
36	SERVING COUNTER	-	-	-	1/2"	-	-
37	COLD FOOD WELL	3/4"	-	-	1/2"	-	-
42	WASHER BY OWNER	-	2"	1 1/2"	1/2"	1/2"	-
43	DRYER BY OWNER	-	-	-	-	-	1/2" 50 MBH
47	SOILED DISHTABLE & POT SINK	(3) 2"	-	-	(2) 3/4"	(2) 3/4"	-
49	HOSE REEL	-	-	-	1/2"	1/2"	-
51	DISHWASHER	2"	-	-	1/2"	1/2"	-
52	WATER TROUGH	-	-	-	3/4"	3/4"	-
EQUIPMENT LISTED PROVIDED BY FOOD SERVICE CONTRACTOR (FSC). COORDINATE WITH FSC FOR REQUIRED CONNECTIONS.							

PLUMBING FIXTURE SCHEDULE									
MARK	MANUFACTURER	MODEL	MOUNTING TYPE	CW	HW	SAN	VENT	FIXTURE DESCRIPTION	
DRAINAGE FIXTURE (FD, FS, HD, TD)									
3"FCO	ZURN	ZN1400-BZ-K-VP	FLOOR			3"		ADJUSTABLE, CAST IRON BODY, ANCHOR FLANGE, ABS THREAD PLUG, ROUND SCORIATED TOP WITH NICKEL BRONZE FINISH, VANDAL RESISTANT COVER SCREWS. SEE DETAIL 2/P501.	
3"WCO	ZURN	Z1446-VP	WALL			3"		CAST IRON CLEANOUT TEE, THREAD ABS PLUG, STAINLESS STEEL ROUND ACCESS COVER WITH VANDAL RESISTANT SECURING SCREW.	
4"ECO	ZURN	Z1474-N-VP	GRADE			4"		CAST IRON CLEANOUT ACCESS HOUSING, ANCHOR FLANGE, SECURE GASKETED COVER WITH CLEANOUT FERRULE WITH ABS PLUG. VANDAL PROOF COVER SCREWS.	
4"FCO	ZURN	ZN1400-BZ-K-VP	FLOOR			4"		ADJUSTABLE, CAST IRON BODY, ANCHOR FLANGE, ABS THREAD PLUG, ROUND SCORIATED TOP WITH NICKEL BRONZE FINISH, VANDAL RESISTANT COVER SCREWS. SEE DETAIL 2/P501.	
4"WCO	ZURN	Z1446-VP	WALL			4"		CAST IRON CLEANOUT TEE, THREAD ABS PLUG, STAINLESS STEEL ROUND ACCESS COVER WITH VANDAL RESISTANT SECURING SCREW.	
BWV-1	RECTORSEAL	97034	GRADE			4"		PVC BODY, FLAPPER WITH EXTENSION AND CAP. PROVIDE PVC SLEEVE TO FLUSH WITH FINISH GRADE. FIELD VERIFY DEPTH OF ACCESS HOUSING. ASSEMBLY MEETS IPC CODES. SEE DETAIL 4/P501.	
FD-1	ZURN	ZN415-BZ1-P-VP	FLOOR			2"		6" ROUND NICKEL BRONZE STRAINER, CAST IRON BODY ANCHOR FLANGE, CLAMP COLLAR, ADJUSTABLE COLLAR, ADJUSTABLE STRAINER HEIGHT, VANDAL-PROOF SECURED TOP, 1/2" TRAP PRIMER CONNECTION. SEE DETAIL 1/P501.	
FD-2	ZURN	ZS415-BZ1-P-VP	FLOOR			3"		6" ROUND STAINLESS STEEL STRAINER, CAST IRON BODY ANCHOR FLANGE, CLAMP COLLAR, ADJUSTABLE COLLAR, ADJUSTABLE STRAINER HEIGHT, VANDAL-PROOF SECURED TOP, 1/2" TRAP PRIMER CONNECTION. SEE DETAIL 1/P501.	
FD-3	ZURN	ZN415-BZ1-P-VP	FLOOR			3"		6" ROUND NICKEL BRONZE STRAINER, CAST IRON BODY ANCHOR FLANGE, CLAMP COLLAR, ADJUSTABLE COLLAR, ADJUSTABLE STRAINER HEIGHT, VANDAL-PROOF SECURED TOP, 1/2" TRAP PRIMER CONNECTION. SEE DETAIL 1/P501.	
FS-1	ZURN	ZN1910-K-2-23	FLOOR			3"		8"x8" TOP, 6" DEEP, CAST IRON BODY WITH WHITE A.R.E. INTERIOR, ANCHOR FLANGE, 1/2 GRATE WITH NICKEL BRONZE FINISH & SEDIMENT BUCKET.	
FS-2	ZURN	ZN1901-K-2-23	FLOOR			4"		12"x12" TOP, 8" DEEP, CAST IRON BODY WITH WHITE A.R.E. INTERIOR, ANCHOR FLANGE, 1/2 GRATE WITH NICKEL BRONZE FINISH & SEDIMENT BUCKET.	
FS-3	ZURN	ZS1910-K-P-2-23	FLOOR			3"		8"x8" TOP, 6" DEEP, CAST IRON BODY WITH WHITE A.R.E. INTERIOR, ANCHOR FLANGE, 1/2" TRAP PRIMER CONNECTION, STAINLESS STEEL FRAME WITH 1/2 GRATE & SEDIMENT BUCKET.	
FS-4	ZURN	ZS1901-K-2-23	FLOOR			4"		12"x12" TOP, 8" DEEP, CAST IRON BODY WITH WHITE A.R.E. INTERIOR, ANCHOR FLANGE, STAINLESS STEEL FRAME, 1/2 GRATE & SEDIEMENT BUCKET.	
DRINKING FOUNTAIN (EDF)									
EWC-1	ELKAY	LZS8WSSP	WALL	1/2"		2"	1 1/2"	SINGLE LEVEL VANDAL- RESISTANT WITH PUSH BUTTON ACTIVATION, SENSOR WATER BOTTLE FILLING STATION, FILTERED, 120 VOLT. PROVIDE ELKAY CANE APRON LKAPREZL ON UNIT. PROVIDE PVC P-TRAP AND 1/4 TURN SUPPLY STOP. REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT & WALL TYPE. ADA INSTALLATION.	
EWC-2	ELKAY	LZSTL8WSSK	WALL	1/2"		2"	1 1/2"	DUAL LEVEL VANDAL- RESISTANT WITH PUSH BUTTON ACTIVATION, SENSOR WATER BOTTLE FILLING STATION ON LOWER UNIT, FILTERED, 120 VOLT. PROVIDE ELKAY CANE APRON LKAPREZL ON UPPER UNIT. PROVIDE PVC P-TRAP AND 1/4 TURN SUPPLY STOP. REFER TO ARCHITECTS PLANS FOR MOUNTING HEIGHT & WALL TYPE. ADA INSTALLATION.	
FIXTURES									
RVB-1	SIIOUX CHIEF	696-G1010WF	WALL	1/2"				FIRE RATED RECESSED REFRIGERATOR VALVE BOX, ABS WITH WHITE FINISH, 1/2" CONNECTION, INTEGRAL BALL VALVE WITH HAMMER ARRESTOR, 1/4" THREADED OUTLET CONNECTION. ROUGH-IN: COORDINATE HEIGHT WITH EQUIPMENT CONNECTION.	
HYDRANTS (HB, RH, WH)									
FRH	WATTS	HY-900	ROOF	3/4"				FREEZELESS HYDRANT, ROOF MOUNTING ASSEMBLY & SUPPORT, THREADED HOSE OUTLET WITH DUAL CHECK BFP ASSE 1052. COORDINATE INSTALLATION WITH ROOFING CONTRACTOR.	
FWH	WOODFORD	B65	WALL	3/4"				CONCEALED BOX TYPE WITH HINGED DOOR, CHROME FINISH, ASSE STANDARD 1019, INSTALL AT MINIMUM 18" ABOVE GRADE. GIVE HYDRANT KEY TO OWNER.	
LAUNDRY BOX (LB, WMB)									
LB-1	SIIOUX CHIEF	696RG2313WF	WALL	1/2"	1/2"	2"	2"	FIRE RATED RECESSED WALL MOUNTED BOX WITH FLANGE, 1/4 TURN BALL VALVES WITH HAMMER ARRESTORS, 3/4" THREADED OUTLETS, DRAIN CONNECTION. COORDINATE INSTALL HEIGHT FOR CLOTHES WASHER.	
MOP SINK (MS)									
MS-1	FIAT	TSB-3000 24x24x12	FLOOR	1/2"	1/2"	3"	2"	PROVIDE 832AA HOSE & BRACKET, 889-CC MOP BRACKET, MSG 2424SS WALL GUARDS. PROVIDE T&S BRASS FAUCET B-0665-BSTR. ASSE 1011 APPROVED HOSE CONNECTION VACUUM BREAKER, WATTS LF8A OR APPROVED EQUAL.	
SINK (S)									
S-1	ELKAY	LRAD1919602	COUNTERTOP	1/2"	1/2"	2"	2"	SINGLE BOWL, 6" DEEP, 2 FAUCET HOLES, REAR CENTER DRAIN. PROVIDE ELKAY LKD35 DRAIN & ELKAY LK406GN08T4 FAUCET, MCGUIRE 8912 P-TRAP & LFBV2165 SUPPLY STOPS. INSTALL THERMOSTATIC MIXING VALVE (TMV-1) UNDER SINK. SEE DETAIL 7/P501.	
SINK/LAVATORIES (L, SK)									
L-1	AMERICAN STANDARD	0356.041	WALL	1/2"	1/2"	2"	2"	COLOR WHITE, SINGLE FAUCET HOLE. PROVIDE DELTA SELF METERING FAUCET 87T105, MCGUIRE HD155A GRID STRAINER, 8902C P-TRAP, LFBV2165CC 1/4 TURN SUPPLY STOPS, TRUEBRO LAV GUARD2 PIPE COVERS, ZURN WALL CARRIER. REFER TO ARCHITECTS PLANS FOR HEIGHT AND WALL TYPE. INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW FIXTURE. SEE DETAIL 5/P501.	
L-2	BRADLEY	VERGE LVRD2	WALL	1/2"	1/2"	2"	2"	2-STATION LAVATORY, NO SOAP DISPENSER, CENTER SHANK FAUCET DRILLING (2 FAUCETS), THERMOSTATIC MIXING ASSEMBLY, STAINLESS STEEL ACCESS PANEL, PVC P-TRAP, DELTA SELF METERING FAUCET 87T105, QUARTER TURN LEAD-FREE, FLEXIBLE SUPPLY LINES. MCGUIRE LFBV2165. ALL AVAILABLE COLORS FOR SELECTION BY ARCHITECT.	
TRAP PRIMER (TP)									
TP-1	SIIOUX CHIEF	695-ES01	WALL	1/2"				SURFACE MOUNT BOX, ELECTRIC UNIT WITH 24 HOUR ELECTRIC TIMER, SOLENOID VALVE, INTEGRAL BALL VALVE, WATER HAMMER ARRESTOR & AIR GAP, 1/2" CW INLET & OUTLET, 120V POWER HARD-WIRED, COORDINATE WITH EC. PROVIDE STRAINER PRIOR TO UNIT. PROVIDE DISTRIBUTION SPLITTER. SEE DETAIL 1/P501.	
TP-2	SIIOUX CHIEF	695-ES05	WALL	1/2"				SURFACE MOUNT, ELECTRIC UNIT WITH 24 HOUR ELECTRIC TIMER, SOLENOID VALVE, INTEGRAL BALL VALVE, WATER HAMMER ARRESTOR & AIR GAP, 1/2" CW INLET & 5 OUTLETS, 120 V POWER HARD-WIRED, COORDINATE WITH EC. PROVIDE STRAINER PRIOR TO UNIT. SEE DETAIL 1/P501.	
WATER CLOSET (WC)									
WC-1	AMERICAN STANDARD	2257.101	WALL	1 1/2"		4"	2"	COLOR WHITE. PROVIDE SLOAN ROYAL 111-1.6 SFSM BATTERY OPERATED FLUSH VALVE. PROVIDE BEMIS 1655SSCOT OPEN FRONT ELONGATED SEAT, EXTERNAL CHECK HINGE, COLOR WHITE. ZURN NARROW WALL CARRIER. REFER TO ARCHITECTS PLANS FOR HEIGHT AND WALL TYPE. ADA INSTALLATION.	
WC-2	AMERICAN STANDARD	2257.101	WALL	1 1/2"		4"	2"	COLOR WHITE. PROVIDE SLOAN ROYAL 111-1.6 SFSM BATTERY OPERATED FLUSH VALVE. PROVIDE BEMIS 1655SSCOT OPEN FRONT ELONGATED SEAT, EXTERNAL CHECK HINGE, COLOR WHITE. ZURN NARROW WALL CARRIER. REFER TO ARCHITECTS PLANS FOR HEIGHT AND WALL TYPE.	

THERMOSTATIC MIXING VALVE SCHEDULE						
MARK	BASIS OF DESIGN		LOCATION	CW	HW	DESCRIPTION
	MANUFACTURER	MODEL				
TMV-1	WATTS	LFMMVM1	UNDER FIXTURES	1/2"	1/2"	LOCATED UNDER LAVATORIES AND SINKS
NOTES:						
1. INSTALL THERMOSTATIC MIXING VALVES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND LOCAL PLUMBING CODE.						

GREASE INTERCEPTOR SCHEDULE									
MARK	LOCATION	FLOW RATE (GPM)	LIQUID CAP. (GAL)	GREASE CAP. (LBS)	STANDARD CONNECTION	DIMENSIONS			NOTES
						LENGTH	WIDTH	HEIGHT	
GI 1	EXTERIOR BELOW GRADE	200	277	1,196	4"	87"	33"	46.5"	SCHIER GB-250 ALL
NOTES:									
1. INSTALL AND VENT PER MANUFACTURER'S RECOMMENDATION AND LOCAL PLUMBING CODE.									
2. INSTALL EXTERIOR BELOW GRADE GREASE INTERCEPTOR SO COVER IS FLUSH WITH FINISHED CONCRETE PAD. PROVIDE EXTENSION RISER ASSEMBLY AS REQUIRED. PROVIDE TRAFFIC RATED COVERS.									
3. INSTALL GREASE INTERCEPTOR WITH REQUIRED CLEARANCES FOR ACCESS AND CLEANING.									
4. PROVIDE SAMPLING PORT SCHIER SV10 WITH EXTENSION RISER DOWNSTREAM OF INTERCEPTOR PER MANUFACTURER'S RECOMMENDATIONS.									
5. SEE DETAIL SHEET P502 FOR ADDITIONAL INFORMATION.									

GREASE INTERCEPTOR SIZING	
GREASE INTERCEPTOR SIZED TO COMPLY WITH INTERNATIONAL PLUMBING CODE 2018 AND PDI-G101.	
FIXTURES DRAINING TO GREASE INTERCEPTOR:	
3- COMPARTMENT SINK, WASH AND RISE BOWLS TO INTERCEPTOR. BOWL SIZE: 20" x 24" x 14" = 6720 CU INCHES x 3 = 20,160 CU INCHES / 231 x 75% = 65 GALLONS	
HANDSINKS: 3 FIXTURES x 1 GPM = 3 GPM	
PREP SINGLE SINK: 2 FIXTURES: 18" x 18" x 14" = 4,536 CU INCHES x 2 / 231 x 75% = 30 GALLONS	
WORK TABLE SINK: BOWL SIZE: 12" x 16" x 14" = 2,688 CU INCHES / 231 x 75% = 9 GALLONS	
DISHWASHER: 36 GALLONS	
PREP DOUBLE SINK: BOWL SIZE: 18" x18" x 14" = 4,536 CU INCHES x 2 / 231 x 75% = 30 GALLONS	
FLOOR SINKS WITH 3" OUTLET: 4 FIXTURES x 5 GPM = 20 GPM	
MOP SINK: BOWL SIZE: 20" x 20" x 6" = 2,400 CU INCHES / 231 x 75% = 8 GALLONS	
TOTAL DRAIN FLOW PER 2 MINUTES = 201 GALLONS / 2 MIN = 101 GALLONS	
USE INTERCEPTOR SIZED FOR FLOW RATE OF 200 GPM.	

TANKLESS GAS WATER HEATER SCHEDULE												
MARK	BASIS OF DESIGN		STORAGE CAPACITY (GAL)	BTU/HR. INPUT	WH GALS. PER HR. RECOVERY RATE 100° F RISE	STORED WATER TEMP	ELECTRICAL CHAR.				REMARKS	
	MANUFACTURER	MODEL					V	P	MCA	MOCP		
GWH-1	NAIVEN	NPE-240A	TANKLESS	199.9	4	140 °F	120	1	2	20	ALL	
GWH-2	NAIVEN	NPE-240A	TANKLESS	199.9	4	140 °F	120	1	2	20	ALL	
GWH-3	NAIVEN	NPE-240A	TANKLESS	199.9	4	140 °F	120	1	2	20	ALL	
GWH-4	NAIVEN	NPE-240A	TANKLESS	199.9	4	140 °F	120	1	2	20	ALL	
GWH-5	NAIVEN	NPE-240A	TANKLESS	199.9	4	140 °F	120	1	2	20	ALL	
NOTES												
1. INSTALL AND VENT PER MANUFACTURER'S RECOMMENDATIONS.												
2. COORDINATE POWER SUPPLY WITH ELECTRICAL CONTRACTOR. POWER SUPPLY TO UNIT 120V, 2 AMP (GFCI OUTLET).												
3. PROVIDE AMTROL ST-12 THERMAL EXPANSION TANK ON COLD WATER LINE. REFER TO DETAILS SHEET P501 AND P502.												
4. PROVIDE CLEAR WATER ENVIRO TECHNOLOGIES SCALEBLASTER MODEL SB-250 ELECTRONIC DESCALER. COORDINATE 120 VOLT OUTLETS WITH EC.												
5. PROVIDE CIRCULATION PUMP WIRING FROM WATER HEATERS (GWH-1 & GWH-2). COORDINATE POWER CONNECTIONS WITH EC.												
6. PROVIDE NAVIEN CONDENSATE NEUTRALIZER KIT AND OVERFLOW BYPASS PIPING TO FLOOR SINK PER MANUFACTURER'S RECOMMENDATIONS.												
7. PROVIDE ONE COMMUNICATION CABLE FOR GWH-1 & GWH-2. PROVIDE TWO COMMUNICATION CABLES FOR GWH-3, GWH-4 & GWH-5.												
8. PROVIDE NAVIEN READY-LINK WALL MOUNT PIPING MANIFOLD SYSTEM FOR WATER HEATERS.												
9. PROVIDE NAVIEN EXHAUST/INTAKE CONCENTRIC VENT KIT THRU ROOF.												
10. SEE DETAIL 9/P501 AND 6/P502 FOR ADDITIONAL INFORMATION.												



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GENERAL NOTES

- OCCUPANCY SENSOR LOCATIONS SHOWN ARE FOR DESIGN INTENT ONLY. LOCATE OCCUPANCY SENSORS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
- CONNECT BATTERY PACKS TO UNSWITCHED HOT OF LOCAL LIGHTING CIRCUIT.
- COORDINATE WITH ALL ASSOCIATED TRADES FOR THE EXACT LOCATIONS OF LIGHT FIXTURES WITH HVAC EQUIPMENT AND OTHER DEVICES/EQUIPMENT.
- COORDINATE WITH THE ARCHITECT, OWNER, AND ASSOCIATED TRADES FOR THE EXACT HEIGHT/LOCATION OF EXTERIOR MOUNTED LIGHTING FIXTURES PRIOR TO ROUGH-IN.
- LABEL SWITCH PLATES AND J-BOXES WITH CIRCUIT PER SPECS.
- COORDINATE LIGHT SWITCHES WITH THERMOSTATS AND OTHER WALL MOUNT DEVICES.

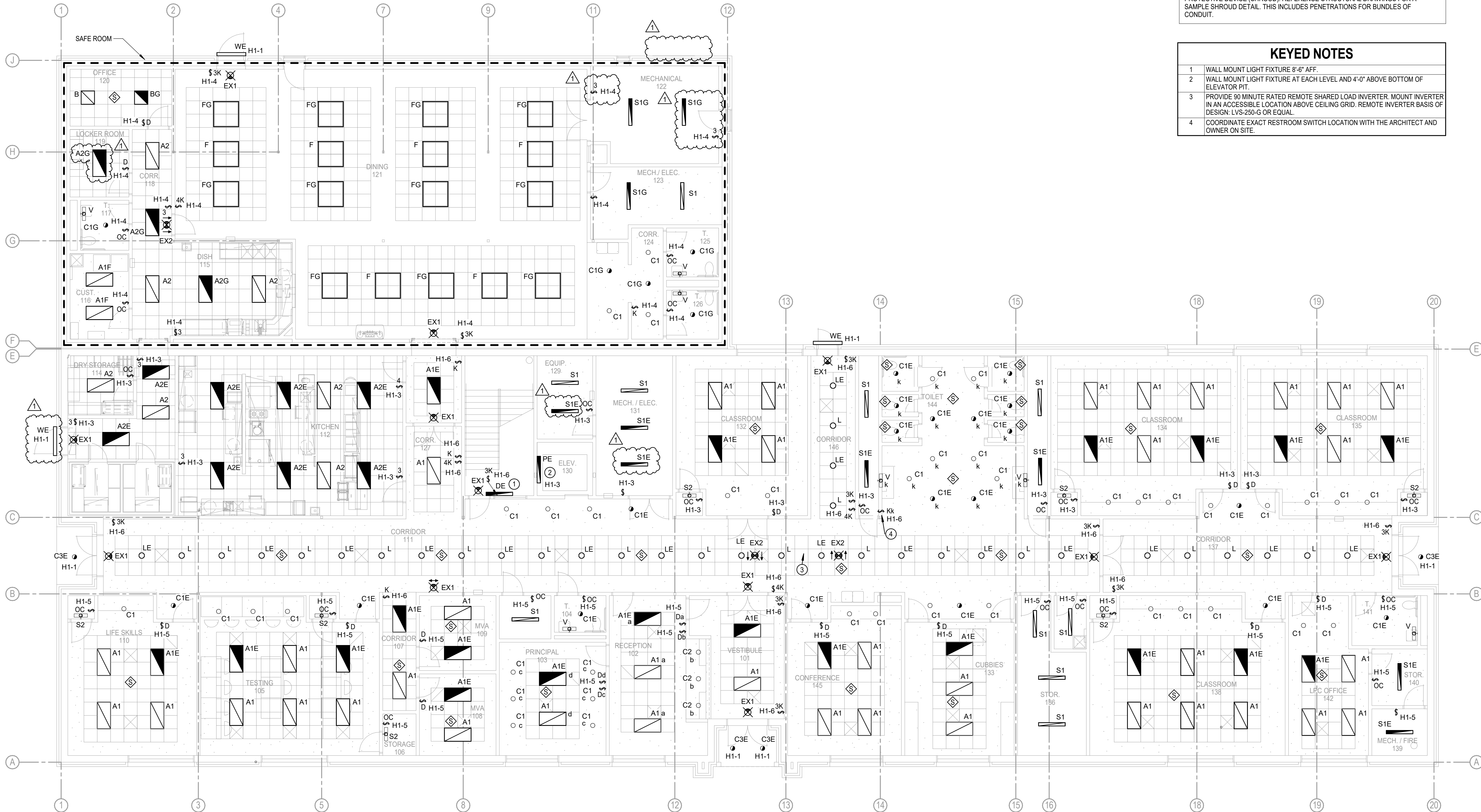
SAFEROOM GENERAL NOTES

PER ICC 500-2014, 309.1:

- PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE THAT ARE LARGER THAN:
- 3.5" SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS, OR
 - 2 1/16" IN DIAMETER
- SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE (SHROUD). REFERENCE STRUCTURAL DRAWINGS FOR A SAMPLE SHROUD DETAIL. THIS INCLUDES PENETRATIONS FOR BUNDLES OF CONDUIT.

KEYED NOTES

- | | |
|---|--|
| 1 | WALL MOUNT LIGHT FIXTURE 8'-6" AFF. |
| 2 | WALL MOUNT LIGHT FIXTURE AT EACH LEVEL AND 4'-0" ABOVE BOTTOM OF ELEVATOR PIT. |
| 3 | PROVIDE 90 MINUTE RATED REMOTE SHARED LOAD INVERTER. MOUNT INVERTER IN AN ACCESSIBLE LOCATION ABOVE CEILING GRID. REMOTE INVERTER BASIS OF DESIGN: LVS-250-G OR EQUAL. |
| 4 | COORDINATE EXACT RESTROOM SWITCH LOCATION WITH THE ARCHITECT AND OWNER ON SITE. |

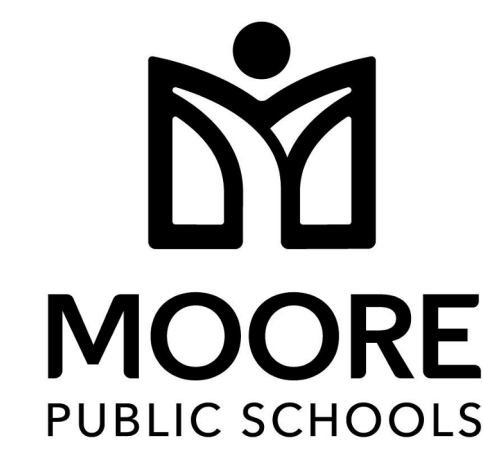


ELECTRICAL LIGHTING PLAN - FIRST FLOOR
Scale: 1/8" = 1'-0"



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SAFEROOM NOTES

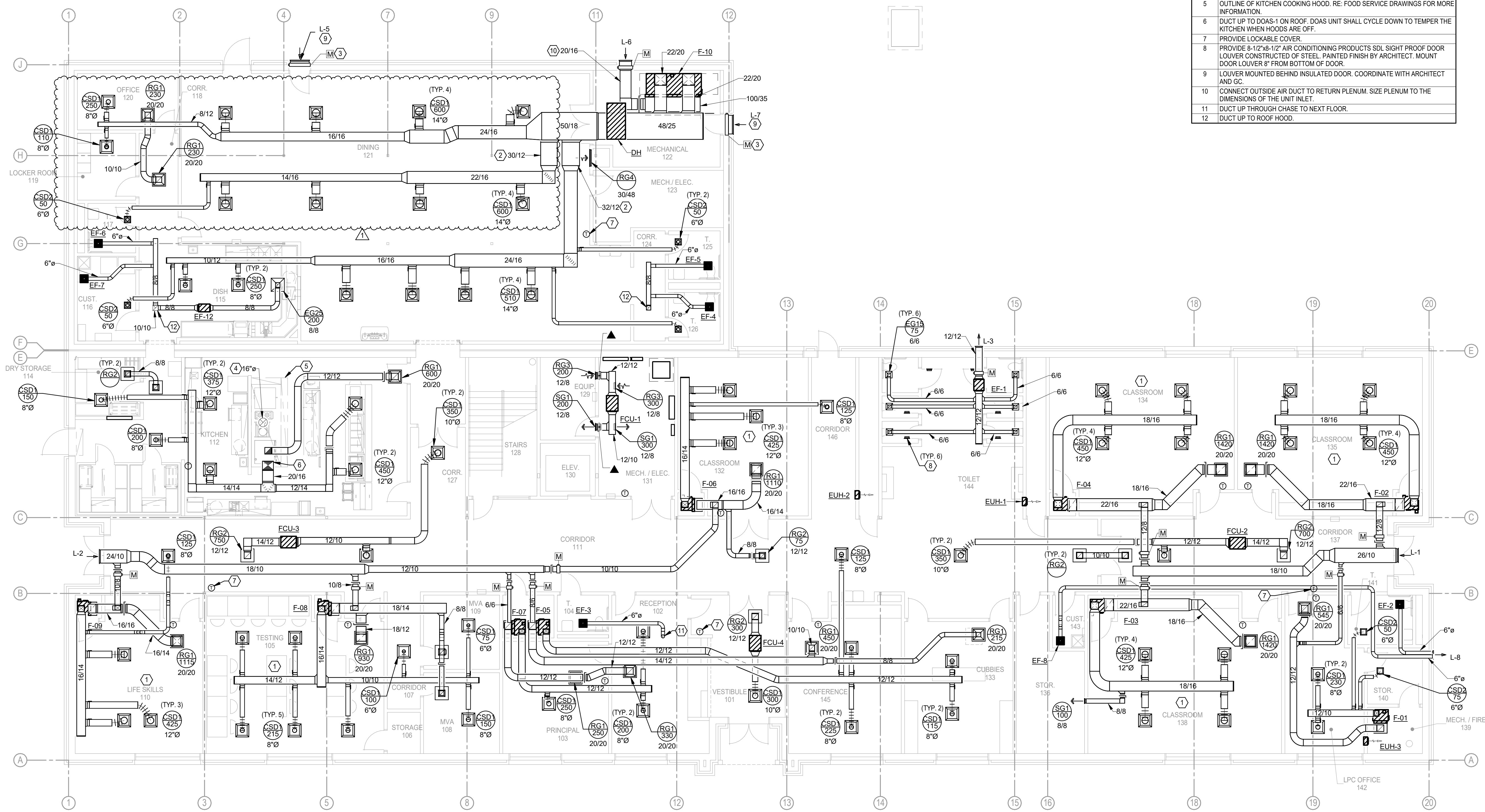
- ALL PENETRATIONS OVER 3 1/2 SQUARE INCHES OR 2 1/16 INCHES IN DIAMETER IN/OUT OF SHELTER REQUIRE SHROUD. REFER TO STRUCTURAL PLANS FOR ALL SHROUD DETAILS.
- MC IS RESPONSIBLE TO ALL STRUCTURAL REQUIRED PENETRATION PROTECTION ITEMS FOR ALL MECHANICAL SYSTEMS PENETRATING THE SHELTER.
- EC SHALL PROVIDE, LOCATE, AND INSTALL SWITCH FOR EMERGENCY VENTILATION FAN. MC SHALL PROVIDE CALL OUT LETTERING "EMERGENCY VENTILATION" ON PLACARD ABOVE THE SWITCH WITH 3/4" LETTERING FOR INSTALLATION BY GC. COORDINATE WITH GC AND EC.

GENERAL NOTES

- COORDINATE INSTALLATION OF EQUIPMENT AND DUCTWORK WITH ALL TRADES.
- COORDINATE LOCATION OF THERMOSTATS WITH E.C. ROUGH-IN BY E.C.
- COORDINATE CARBON DIOXIDE SENSOR LOCATION WITH EARTHSNART PRIOR TO INSTALLATION.
- KITCHEN HOODS ARE PROVIDED BY FOOD SERVICE CONTRACTOR. COORDINATE WITH FOOD SERVICE CONTRACTOR FOR DUCT INSTALLATION.
- INSTALL GREASE DUCTS IN ACCORDANCE WITH SMACNA STANDARDS OF MATERIAL AND CONSTRUCTION.

MECHANICAL KEYED NOTES

- CARBON MONOXIDE DETECTOR TO BE INSTALLED ACCORDING TO ALL APPLICABLE CODES. DETECTOR SHALL BE INSTALLED CENTRALLY ON CEILING. ALSO INCLUDE BATTERY BACKUP IN EVENT PRIMARY POWER IS INTERRUPTED. ALARM SIGNAL SHALL BE ROUTED TO ADMINISTRATION OFFICE. COORDINATE WITH E.C. WITH PRIMARY POWER CONNECTION AND SYSTEM CONNECT.
- FLATTEN DUCT TO FIT UNDER STRUCTURAL BEAM.
- MOTORIZED DAMPER IS PART OF EMERGENCY VENTILATION SYSTEM. WHEN POWER IS ON, THE DAMPER SHALL BE CLOSED. WHEN POWER IS LOST, THE DAMPER SHALL OPEN.
- ROUTE GREASE DUCT UP THRU ROOF TO CONNECT TO EXHAUST FAN.
- OUTLINE OF KITCHEN COOKING HOOD. RE: FOOD SERVICE DRAWINGS FOR MORE INFORMATION.
- DUCT UP TO DOAS-1 ON ROOF. DOAS UNIT SHALL CYCLE DOWN TO TEMPER THE KITCHEN WHEN HOODS ARE OFF.
- PROVIDE LOCKABLE COVER.
- PROVIDE 8-1/2"x8-1/2" AIR CONDITIONING PRODUCTS SDL SIGHT PROOF DOOR LOUVER CONSTRUCTED OF STEEL. PAINTED FINISH BY ARCHITECT. MOUNT DOOR LOUVER 8" FROM BOTTOM OF DOOR.
- LOUVER MOUNTED BEHIND INSULATED DOOR. COORDINATE WITH ARCHITECT AND GC.
- CONNECT OUTSIDE AIR DUCT TO RETURN PLENUM. SIZE PLENUM TO THE DIMENSIONS OF THE UNIT INLET.
- DUCT UP THROUGH CHASE TO NEXT FLOOR.
- DUCT UP TO ROOF HOOD.



MECHANICAL PLAN - FIRST FLOOR
Scale: 1/8" = 1'-0"

Salas O'Brien
Oklahoma City
2900 S. Telephone Road, suite 120
Moore, OK 73160
CA# 7058 Expiration Date: 06/30/27
Salas O'Brien Project Number: 2550-01554-00

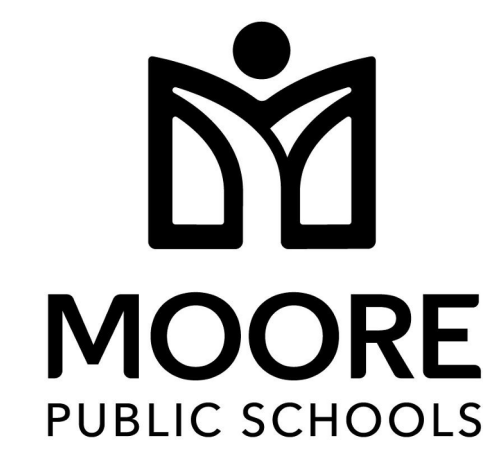


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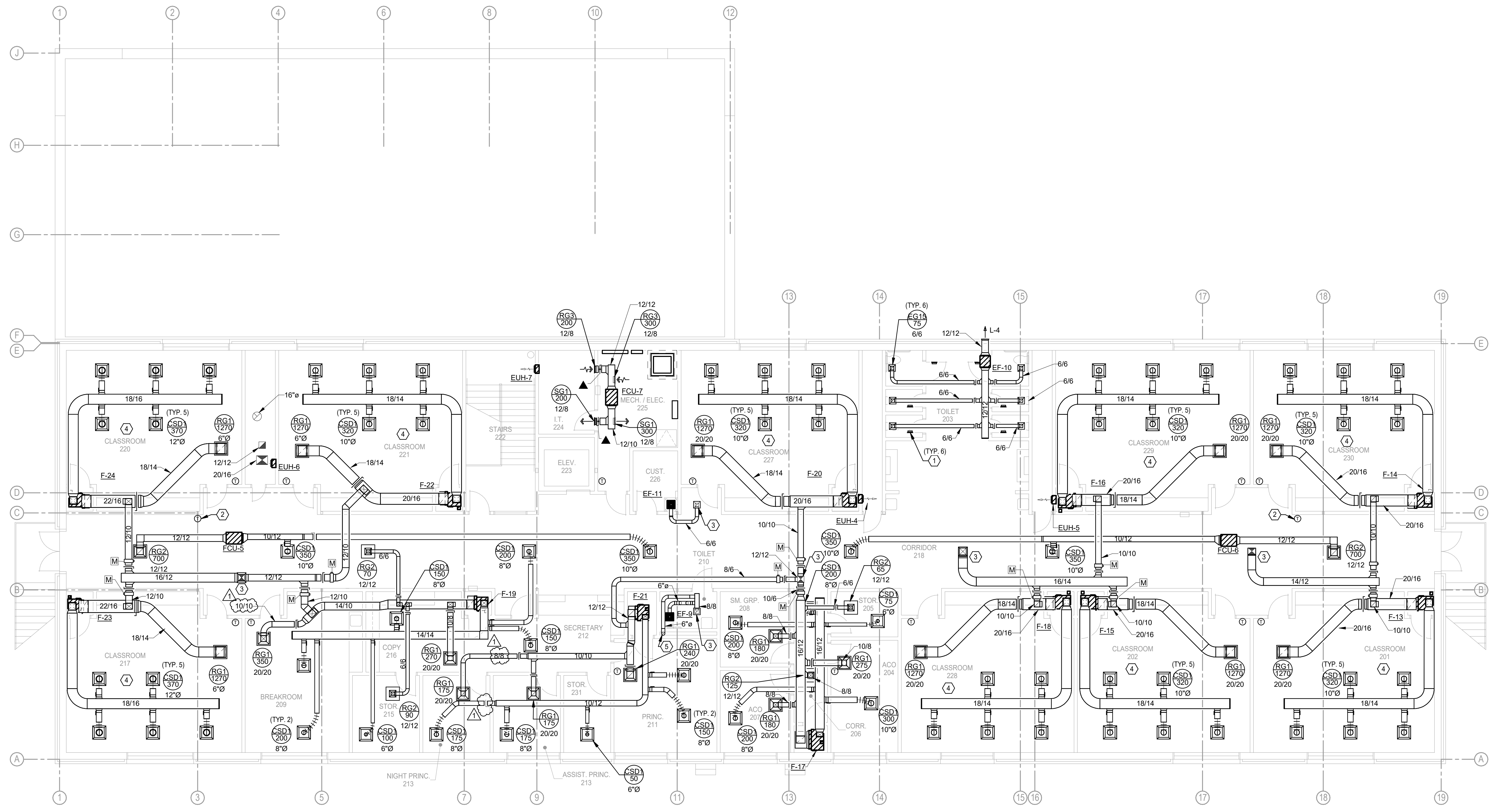
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GENERAL NOTES

- COORDINATE INSTALLATION OF EQUIPMENT AND DUCTWORK WITH ALL TRADES.
- COORDINATE LOCATION OF THERMOSTATS WITH E.C. ROUGH-IN BY E.C.
- COORDINATE CARBON DIOXIDE SENSOR LOCATION WITH EARTHSNART PRIOR TO INSTALLATION.

MECHANICAL KEYED NOTES

- PROVIDE 8-1/2"x8-1/2" AIR CONDITIONING PRODUCTS SDL SIGHT PROOF DOOR LOUVER CONSTRUCTED OF STEEL. PAINTED FINISH BY ARCHITECT. MOUNT DOOR LOUVER 8" FROM BOTTOM OF DOOR.
- PROVIDE LOCKABLE COVER.
- DUCT UP TO ROOF HOOD.
- CARBON MONOXIDE DETECTOR TO BE INSTALLED ACCORDING TO ALL APPLICABLE CODES. DETECTOR SHALL BE INSTALLED CENTRALLY ON CEILING. ALSO INCLUDE BATTERY BACKUP IN EVENT PRIMARY POWER IS INTERRUPTED. ALARM SIGNAL SHALL BE ROUTED TO ADMINISTRATION OFFICE. COORDINATE WITH E.C. WITH PRIMARY POWER CONNECTION AND SYSTEM CONNECT.
- DUCT DOWN TO FLOOR BELOW.



MECHANICAL PLAN - SECOND FLOOR
Scale: 1/8" = 1'-0"

Salas O'Brien
Oklahoma City
2900 S. Telephone Road, suite 120
Moore, OK 73160
CA# 7058 Expiration Date: 06/30/27
Salas O'Brien Project Number: 2550-01554-00

MARK	MINIMUM CAPACITY (BTU/H)	KW	NUMBER OF STAGES	CURRENT CHAR.			CFM	MANUFACTURER	MODEL	REMARKS
				V	P	F				
EUH-1	10 236	3	2	208	1	60	100	BERKO	FRA-4024F	1-3
EUH-2	10 236	3	2	208	1	60	100	BERKO	FRA-4024F	1-3
EUH-3	10 236	3	2	208	1	60	100	BERKO	FRA-4024F	1-3
EUH-4	10 236	3	2	208	1	60	100	BERKO	FRA-4024F	1-3
EUH-5	10 236	3	2	208	1	60	100	BERKO	FRA-4024F	1-3
EUH-6	10 236	3	2	208	1	60	100	BERKO	FRA-4024F	1-3
EUH-7	10 236	3	2	208	1	60	100	BERKO	FRA-4024F	1-3

MARK	WIDTH/LENGTH (IN)	MAX S.P (IN WC.)	MIN THROAT AREA	MODEL	REMARKS
OAI-1	12/12	0.05 in-wg	1.0 SF	COOK GI	1-3
OAI-2	12/12	0.05 in-wg	1.0 SF	COOK GI	1-3
OAI-3	12/12	0.05 in-wg	1.0 SF	COOK GI	1-3
OAI-4	12/12	0.05 in-wg	1.0 SF	COOK GI	1-3
RV-1	12/12	0.05 in-wg	-75.0 SF	COOK GR	1-3
RV-2	12/12	0.05 in-wg	-75.0 SF	COOK GR	1-3
RV-3	12/12	0.05 in-wg	0.0 SF	COOK GR	1-3
RV-4	12/12	0.05 in-wg	0.0 SF	COOK GR	1-3

TAG	SIZE (HxW) (IN)	CFM	FLANGE	CONSTRUCTION	MANUFACTURER	MODEL NO.	COMMENTS	REMARKS
L-1	24/12	1220	YES	ALUMINUM	GREENHECK	ESD-403	DRAINABLE	1-2
L-2	24/10	1055	YES	ALUMINUM	GREENHECK	ESD-403	DRAINABLE	1-2
L-3	12/12	450	YES	ALUMINUM	GREENHECK	ESD-403	DRAINABLE	1-2
L-4	12/12	450	YES	ALUMINUM	GREENHECK	ESD-403	DRAINABLE	1-2
L-5	34/46	0	YES	ALUMINUM	GREENHECK	AFI-501	DRAINABLE LOUVER (GREENHECK ESD-403)	1-2
L-6	22/22	0	YES	ALUMINUM	GREENHECK	AFI-501	DRAINABLE LOUVER (GREENHECK ESD-403)	1-2
L-7	34/46	0	YES	ALUMINUM	GREENHECK	AFI-501	DRAINABLE LOUVER (GREENHECK ESD-403)	1-2
L-8	14/10	150	YES	ALUMINUM	GREENHECK	ESD-403	DRAINABLE	1-2

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESCRIPTION
CSD1	SUPPLY AIR	DIFFUSER	-	STEEL	WHITE	TITUS	TMS	SQUARE CEILING DIFFUSER
CSD2	SUPPLY AIR	DIFFUSER	-	STEEL	WHITE	TITUS	TMS	SQUARE CEILING DIFFUSER
EG1	EXHAUST AIR	GRILLE	-	STEEL	WHITE	TITUS	50F	EGGCRATE GRILLE WITH CEILING FRAME
EG2	EXHAUST AIR	GRILLE	-	STEEL	WHITE	TITUS	50F	EGGCRATE GRILLE WITH CEILING FRAME
RG1	RETURN AIR	GRILLE	-	STEEL	WHITE	TITUS	50F	RETURN GRILLE, EGGCRATE, 20"x20" NECK
RG2	RETURN AIR	GRILLE	-	STEEL	WHITE	TITUS	50F	RETURN GRILLE, EGGCRATE, 12"x12" NECK
RG3	RETURN AIR	GRILLE	-	STEEL	WHITE	TITUS	23R	SINGLE DEFLECTION SIDEWALL GRILLE WITH VERTICAL FRONT BARS. SURFACE MOUNTED (1)
RG4	RETURN AIR	GRILLE	-	ALUMINUM	WHITE	TITUS	350ZFS	SINGLE DEFLECTION 1/2" BLADE SPACING SIDEWALL GRILLE WITH VERTICAL FRONT BARS. SURFACE MOUNTED.
SG1	SUPPLY AIR	GRILLE	-	STEEL	WHITE	TITUS	300RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)

MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER/ SEER	MIN HEAT CAPACITY (BTUH)	OUTDOOR AIR (WINTER)	HSPF	CURRENT CHARAC.			RELATED UNIT MARK	BASIS OF DESIGN				REMARKS
							V	PH	F		MANUFACTURER	MODEL	MCA	MOCF	
ACC-1	17,000	110	12.5/19.6	9000.0	-5	11	208	1	60	FCU-1	LENNOX	MLA018S4S	18	25	1-3
ACC-2	21,000	110	12.5/20.5	19500.0	-5	12.5	208	1	60	FCU-2	LENNOX	MLA024S4S	20	30	1-3
ACC-3	21,000	110	12.5/20.5	19500.0	-5	12.5	208	1	60	FCU-3	LENNOX	MLA024S4S	20	30	1-3
ACC-4	17,000	110	12.5/19.6	17000.0	-5	11	208	1	60	FCU-4	LENNOX	MLA018S4S	18	25	1-3
ACC-5	21,000	110	12.5/20.5	19500.0	-5	12.5	208	1	60	FCU-5	LENNOX	MLA024S4S	20	30	1-3
ACC-6	21,000	110	12.5/20.5	19500.0	-5	12.5	208	1	60	FCU-6	LENNOX	MLA024S4S	20	30	1-3
ACC-7	17,000	110	12.5/19.6	9000.0	-5	11	208	1	60	FCU-7	LENNOX	MLA018S4S	18	25	1-3

EXHAUST		OUTDOOR AIR	
SOURCE	CFM	SOURCE	CFM
KEF-1	-2,300	DOAS-1	2,000
DOAS-1 RETURN AIR	-600	TRANSFER AIR FROM DINING	900
TOTAL:	-2,900	2,900	

EXHAUST		OUTDOOR AIR	
SOURCE	CFM	SOURCE	CFM
BATHROOM EX	-300	F-10 SUPPLY AIR	7,900
F-10 RETURN AIR	-5,880	-	-
TRANSFER TO KITCHEN	-900	-	-
DISH EXHAUST	-200	-	-
TOTAL:	-7,280	7,900	

MARK	FAN				AIR TEMPERATURE (°F)				COOLING				HEATING				BASIS OF DESIGN						REMARKS	
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSEPOWER	CURRENT C		ENTERING DRY BULB	ENTERING WET BULB	MIN. TOTAL CAPACITY (BTU/H)	MIN. SENS. CAPACITY (BTU/H)	MINIMUM SEER2	NUMBER OF STAGES	ENTERING AIR TEMP.(°F)	INPUT (BTU/H)	OUTPUT (BTU/H)	AFUE (%)	NUMBER OF STAGES	MANUFACTURER	FURNACE MODEL	EVAPORATOR COIL MODEL	MCA	MOCP		
					V	F																		
F-01	585	100	0.50	0.5	120	1	60	80.0	67.0	19000	0	16	2	60	40000	38000	96	2	YORK	TM9V040A10MP12C	CTF24BSAB81	10	15	1-5.8,-
F-02	1,800	370	0.50	0.75	120	1	60	80.0	67.0	57000	40000	16	2	60	100000	96000	96	2	YORK	TM9V100C20MP12C	CTF60CSCHS1	15	20	1-6.8,-
F-03	1,800	380	0.50	0.75	120	1	60	80.0	67.0	57000	40000	16	2	60	100000	96000	96	2	YORK	TM9V100C20MP12C	CTF60CSCHS1	15	20	1-6.8,-
F-04	1,800	370	0.50	0.75	120	1	60	80.0	67.0	57000	40000	16	2	60	100000	96000	96	2	YORK	TM9V100C20MP12C	CTF60CSCHS1	15	20	1-6.8,-
F-05	805	140	0.50	0.5	120	1	60	80.0	67.0	25000	18000	16	2	60	40000	38000	96	2	YORK	TM9V040A10MP12C	CTF24BSAB81	10	15	1-5.8,-
F-06	1,400	285	0.50	0.75	120	1	60	80.0	67.0	47000	31000	16	2	60	80000	77000	96	2	YORK	TM9V080C16MP12C	CTF48CSCHS1	12	15	1-5.8,-
F-07	650	70	0.50	0.5	120	1	60	80.0	67.0	19000	10000	16	2	60	40000	38000	96	2	YORK	TM9V040A10MP12C	CTF24BSAB81	10	15	1-5.8,-
F-08	1,400	275	0.50	0.75	120	1	60	80.0	67.0	47000	31000	16	2	60	80000	77000	96	2	YORK	TM9V080C16MP12C	CTF48CSCHS1	12	15	1-5.8,-
F-09	1,400	285	0.50	0.75	120	1	60	80.0	67.0	47000	31000	16	2	60	80000	77000	96	2	YORK	TM9V080C16MP12C	CTF48CSCHS1	12	15	1-5.8,-
F-10	7,900	2,020	1.00	7.50	480	3	60	82.5	66.0	285000	223000	13.6	1	0	0	0	0	0	YORK	-	GC300C00N6AA1	14	20	1-9
F-13	1,600	330	0.50	0.75	120	1	60	80.0	67.0	47000	31000	16	2	60	80000	77000	96	2	YORK	TM9V080C16MP12C	CTF48CSGCS1	12	15	1-5.8,-
F-14	1,600	330	0.50	0.75	120	1	60	80.0	67.0	47000	31000	16	2	60	80000	77000	96	2	YORK	TM9V080C16MP12C	CTF48CSGCS1	12	15	1-5.8,-
F-15	1,600	330	0.50	0.75	120	1	60	80.0	67.0	47000	31000	16	2	60	80000	77000	96	2	YORK	TM9V080C16MP12C	CTF48CSGCS1	12	15	1-5.8,-
F-16	1,600	330	0.50	0.75	120	1	60	80.0	67.0	47000	31000	16	2	60	80000	77000	96	2	YORK	TM9V080C16MP12C	CTF48CSGCS1	12	15	1-5.8,-
F-17	1,600	150	0.50	0.5	120	1	60	87.5	35.00	24000	24000	16	2	60	60000	58000	96	2	YORK	TM9V060B12MP12C	CTF36BSAD81	10	15	1-5.8,-
F-18	1,600	330	0.50	0.75	120	1	60	80.0	67.0	47000	31000	16	2	60	80000	77000	96	2	YORK	TM9V080C16MP12C	CTF48CSGCS1	12	15	1-5.8,-
F-19	1,900	220	0.50	0.5	120	1	60	80.0	67.0	25000	18000	16	2	60	60000	58000	96	2	YORK	TM9V060B12				

TAG	LOCATION	CFM	EXT. STATIC PRESSURE (IN W.C.)	MAX RPM	HORSE POWER	CURRENT CHAR			LOCALLY SWITCHED	INTERLOCK WITH	FAN TYPE	DRIVE TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
						V	P	F							
EF-1	144 TOILET	450	0.30	1400	0.17	120	1	60	-	LIGHTS	INLINE	DIRECT	COOK	100 SON-D	1-2
EF-2	141 T	75	0.25	810	0.04	120	1	60	-	LIGHTS	CABINET	DIRECT	COOK	GC-146	1-2
EF-3	104 T	75	0.40	1075	0.04	120	1	60	-	LIGHTS	CABINET	DIRECT	COOK	85C-146	1-2
EF-4	126 T	75	0.25	810	0.04	120	1	60	-	LIGHTS	CABINET	DIRECT	COOK	GC-146	1-2
EF-5	125 T	75	0.25	810	0.04	120	1	60	-	LIGHTS	CABINET	DIRECT	COOK	GC-146	1-2
EF-6	117 T	75	0.25	810	0.04	120	1	60	-	LIGHTS	CABINET	DIRECT	COOK	GC-146	1-2
EF-7	116 T	75	0.25	810	0.04	120	1	60	-	LIGHTS	CABINET	DIRECT	COOK	GC-146	1-2
EF-8	143 CUST	75	0.40	1075	0.04	120	1	60	-	LIGHTS	CABINET	DIRECT	COOK	GC-148	1-2
EF-9	210 T	75	0.25	810	0.04	120	1	60	-	LIGHTS	CABINET	DIRECT	COOK	GC-146	1-2
EF-10	203 TOILET	450	0.30	1400	0.17	120	1	60	-	LIGHTS	INLINE	DIRECT	COOK	100 SON-D	1-2
EF-11	226 T	75	0.25	810	0.04	120	1	60	-	LIGHTS	CABINET	DIRECT	COOK	GC-146	1-2
EF-12	115 DISH	200	0.30	1263	0.13	120	1	60	YES	-	INLINE	DIRECT	COOK	090 SON-D	1-2

MARK	TONNAGE	TOTAL COOLING BTU	OUTDOOR AIR TEMP (°F)	MINIMUM EER/ SEER	CURRENT CHAR			RELATED UNIT MARK	BASIS OF DESIGN				REMARKS
					V	P	F		MANUFACTURER	MODEL	MCA	MOCP	
CU-01	2 Tons	25,000.0 Btu/h	95	11/16	208	1	60	F-01	YORK	YC624E2S11	14	20	1-3
CU-02	5 Tons	57,000.0 Btu/h	95	11.5/15	208	1	60	F-02	YORK	YC660E2S11	32	50	1-3
CU-03	5 Tons	57,000.0 Btu/h	95	11.5/15	208	1	60	F-03	YORK	YC660E2S11	32	50	1-3
CU-04	5 Tons	57,000.0 Btu/h	95	11.5/15	208	1	60	F-04	YORK	YC660E2S11	32	50	1-3
CU-05	2 Tons	25,000.0 Btu/h	95	11/16	208	1	60	F-05	YORK	YC624E2S11	14	20	1-3
CU-06	4 Tons	47,000.0 Btu/h	95	12/16	208	1	60	F-06	YORK	YC648E2S11	27	45	1-3
CU-07	2 Tons	25,000.0 Btu/h	95	11/16	208	1	60	F-07	YORK	YC624E2S11	14	20	1-3
CU-08	4 Tons	47,000.0 Btu/h	95	12/16	208	1	60	F-08	YORK	YC648E2S11	27	45	1-3
CU-09	4 Tons	47,000.0 Btu/h	95	12/16	208	1	60	F-09	YORK	YC648E2S11	27	45	1-3
CU-10	25 TON	35,000.0 Btu/h	104	11/15	480	3	60	F-10	YORK	KC3900CA04TLB1	55	70	1-3
CU-13	4 Tons	47,000.0 Btu/h	95	12/16	208	1	60	F-13	YORK	YC648E2S11	27	45	1-3
CU-14	4 Tons	47,000.0 Btu/h	95	12/16	208	1	60	F-14	YORK	YC648E2S11	27	45	1-3
CU-15	4 Tons	47,000.0 Btu/h	95	12/16	208	1	60	F-15	YORK	YC648E2S11	27	45	1-3
CU-16	4 Tons	47,000.0 Btu/h	95	12/16	208	1	60	F-16	YORK	YC648E2S11	27	45	1-3
CU-17	3 Tons	35,000.0 Btu/h	95	11/15	208	1	60	F-17	YORK	YC636E2S11	19	30	1-3
CU-18	4 Tons	47,000.0 Btu/h	95	12/16	208	1	60	F-18	YORK	YC648E2S11	27	45	1-3
CU-19	3 Tons	35,000.0 Btu/h	95	11/15	208	1	60	F-19	YORK	YC636E2S11	19	30	1-3
CU-20	4 Tons	47,000.0 Btu/h	95	12/16	208	1	60	F-20	YORK	YC648E2S11	27	45	1-3
CU-21	2 Tons	25,000.0 Btu/h	95	11/16	208	1	60	F-21	YORK	YC624E2S11	14	20	1-3
CU-22	4 Tons	47,000.0 Btu/h	95	12/16	208	1	60	F-22	YORK	YC648E2S11	27	45	1-3
CU-23	5 Tons	57,000.0 Btu/h	95	11.5/15	208	1	60	F-23	YORK	YC660E2S11	32	50	1-3
CU-24	5 Tons	57,000.0 Btu/h	95	11.5/15	208	1	60	F-24	YORK	YC660E2S11	32	50	1-3

TAG	PRESSURE DROP	INPUT BTU HIGH	INPUT BTU LOW	Output BTU	CURRENT			MAX CFM	MANUFACTURER	Model Number
					V	PH	F			
DH	0.70 in-wg	350,000.0 Btu/h	175,000.0 Btu/h	287,000.0 Btu/h	120	1	60	7900	STERLING	TD-350

MARK	FAN			TOTAL COOLING BTU	NUMBER OF STAGES	MIN TOTAL HEAT CAPACITY	WEIGHT	MODEL NUMBER	MANUFACTURER	REMARKS
	SUPPLY AIR CFM	EXT STATIC PRESSURE (IN. W.C.)	HORSE POWER							
FCU-1	500	0.25	0.2	17,000.0 Btu/h	3	18,500.0 Btu/h	55.00 lbf	MMDB01854	LENNOX	1-4
FCU-2	700	0.25	0.2	21,000.0 Btu/h	3	19,500.0 Btu/h	87.00 lbf	MMDB02454	LENNOX	1-4
FCU-3	700	0.25	0.2	21,000.0 Btu/h	3	19,500.0 Btu/h	87.00 lbf	MMDB02454	LENNOX	1-4
FCU-4	500	0.25	0.2	17,000.0 Btu/h	3	17,000.0 Btu/h	55.00 lbf	MMDB01854	LENNOX	1-4
FCU-5	700	0.25	0.2	21,000.0 Btu/h	3	19,500.0 Btu/h	87.00 lbf	MMDB02454	LENNOX	1-4
FCU-6	700	0.25	0.2	21,000.0 Btu/h	3	19,500.0 Btu/h	87.00 lbf	MMDB02454	LENNOX	1-4
FCU-7	500	0.25	0.2	17,000.0 Btu/h	3	17,000.0 Btu/h	55.00 lbf	MMDB01854	LENNOX	1-4

Oklahoma City
2900 S. Telephone Road, suite 120
Moore, OK 73160
CA#: 7058 Expiration Date: 06/30/27
Salas O'Brien Project Number: 2550

ACTIVE DAS HYBRID SYSTEM NOTE

CONTRACTOR TO PROVIDE AND INSTALL A COMPLETE AND FUNCTIONING DAS SYSTEM IN THE STORM SHELTER PORTION OF THE BUILDING.

CONTRACTOR SHALL PROVIDE AND INSTALL A CEL-FI QUATRA 4000c SYSTEM BY NEXTIVITY

REFERENCE SHEET SPECIFICATIONS FOR PRODUCTS, INSTALLATION INSTRUCTIONS AND ADDITIONAL INFORMATION.

SAFEROOM NOTES

PER ICC 500-2014, 309.1:

PENETRATIONS THROUGH THE STORM SHELTER ENVELOPE THAT ARE LARGER THAN:

- 3.5" SQUARE INCHES IN AREA FOR RECTANGULAR OPENINGS, OR
- 2 1/16" IN DIAMETER

SHALL BE CONSIDERED AN OPENING AND SHALL BE PROVIDED WITH AN OPENING PROTECTIVE DEVICE (SHROUD). REFERENCE STRUCTURAL DRAWINGS FOR A SAMPLE SHROUD DETAIL. THIS INCLUDES PENETRATIONS FOR BUNDLES OF CONDUIT.

TECHNOLOGY PLAN GENERAL NOTES

A FIRE ALARM: CONNECT NEW FIRE ALARM DEVICES TO NEW SILENT KNIGHT 6820EVS. SUPPLY 6820EVS PANEL AND ALL NAC PANELS, POWER SUPPLIES, ETC. NEEDED TO MAKE A COMPLETE AN CODE COMPLIANT SYSTEM. SYSTEM SHALL USE SK PROTOCOL DEVICES ONLY. SEE SPECIFICATIONS FOR APPROVED PART NUMBERS.

B SECURITY ALARM: CONNECT ALL NEW SECURITY ALARM DEVICES TO NEW DMP SECURITY ALARM PANEL. SUPPLY DMP PANEL AND ALL ZONE EXPANDERS, POWER SUPPLIES, ETC. NEEDED TO MAKE A COMPLETE SYSTEM. SYSTEM SHALL BE WIRED WITH 2 ZONES PER SINGLE DOOR OR DOUBLE DOOR. ONE ZONE FOR SECURITY ALARM AND ONE ZONE FOR DOOR HOLD OPEN ALERTS. SEE SPECIFICATIONS FOR APPROVED PART NUMBERS.

C INTERCOM: INTERCOM DEVICES SHALL BE RAULAND. CONNECT ALL NEW INTERCOM DEVICES TO EXISTING RAULAND TELECENTER U.I.P. SUPPLY ALL MASTER CONSOLES, AMPLIFIERS, POWER SUPPLIES, MODULES, CALL BUTTONS, ETC. NEEDED TO MAKE A COMPLETE SYSTEM. SEE SPECIFICATIONS FOR APPROVED PART NUMBERS.

D CLOCKS: CLOCKS SHALL BE DIGITAL SAPLING CLOCKS. SEE SHEET SPECIFICATIONS FOR APPROVED PART NUMBERS.

E ACCESS CONTROL: CONNECT ALL NEW ACCESS CONTROL DEVICES TO NEW KEYSKAN CONTROLLERS. SUPPLY KEYSKAN CONTROLLERS AND ALL POWER SUPPLIES, READERS, STRIKES, ETC. NEEDED TO FURNISH A COMPLETE SYSTEM. SEE SPECIFICATIONS FOR APPROVED PART NUMBERS.

F CAMERA: CONNECT ALL NEW CAMERAS TO NEW MDF. CAMERA SYSTEM IS AVIGILON. CONTRACTOR TO PROVIDE DELL AVIGILON SERVER IN MDF ROOM LOCATED ON 2 POST RACK. CONTACT JACK PHILLIPS WITH MOORE PUBLIC SCHOOLS @ 405-473-9225 FOR EXACT CAMERA MOUNTING LOCATIONS AND SPECIFICATIONS. SEE SPECIFICATIONS FOR APPROVED PART NUMBERS.

G DATA: CONNECT NEW DATA, WIFI AND CAMERA NETWORK DROPS TO NEW MDF. SEE SPECIFICATIONS FOR APPROVED PART NUMBERS.

TECHNOLOGY PLAN KEYED NOTES

1 DOOR HARDWARE SHALL BE LOCKED ON VESTIBULE SIDE AT ALL TIMES AND SHALL HAVE KEY ACCESS TO UNLOCK/LOCK ON OFFICE SIDE.

2 DOOR HARDWARE SHALL BE LOCKED ON OFFICE SIDE AT ALL TIMES AND SHALL HAVE KEY ACCESS TO UNLOCK/LOCK ON HALLWAY SIDE.

3 THE DESIGNATED TELEPHONE OUTLET SHALL BE RESERVED FOR THE ELEVATOR EMERGENCY CALL. CONTRACTOR TO ROUTE A CABLE FROM THE NEAREST MDF/IDF. TO THE ELEVATOR CONTROL EQUIPMENT. TERMINATE THE CABLE AT THE ELEVATOR CONTROL EQUIPMENT AND CROSS-CONNECT TO THE ELEVATOR TELEPHONE TRAVEL CABLE. COORDINATE EXACT LOCATION, TERMINATION, AND CROSS-CONNECT WITH THE ELEVATOR INSTALLER.

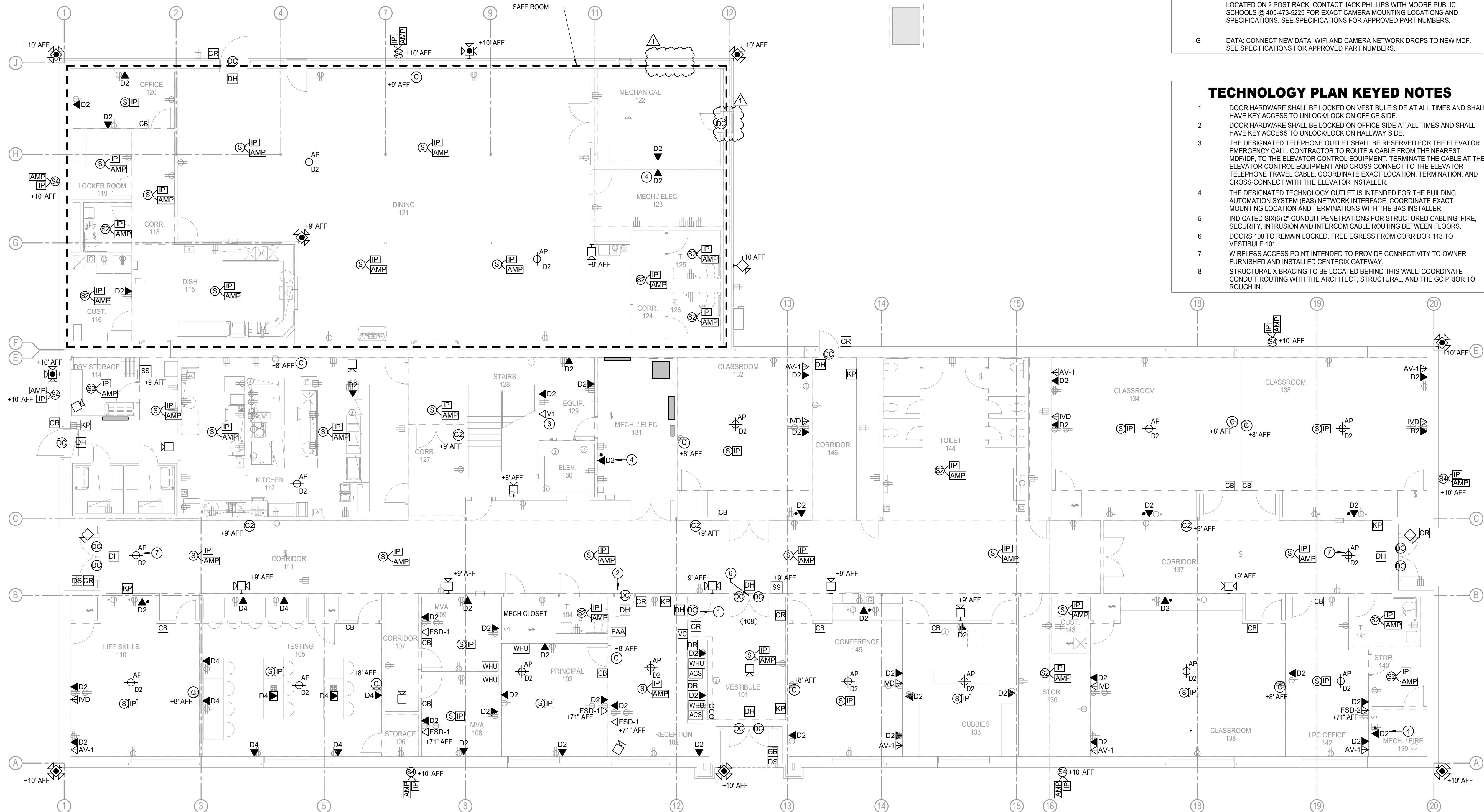
4 THE DESIGNATED TECHNOLOGY OUTLET IS INTENDED FOR THE BUILDING AUTOMATION SYSTEM (BAS) NETWORK INTERFACE. COORDINATE EXACT MOUNTING LOCATION AND TERMINATIONS WITH THE BAS INSTALLER.

5 INDICATED SIX(6) 2" CONDUIT PENETRATIONS FOR STRUCTURED CABLING, FIRE, SECURITY, INTRUSION AND INTERCOM CABLE ROUTING BETWEEN FLOORS.

6 DOORS 108 TO REMAIN LOCKED. FREE EGRESS FROM CORRIDOR 113 TO VESTIBULE 101.

7 WIRELESS ACCESS POINT INTENDED TO PROVIDE CONNECTIVITY TO OWNER FURNISHED AND INSTALLED CENTEGIX GATEWAY.

8 STRUCTURAL X-BRACING TO BE LOCATED BEHIND THIS WALL. COORDINATE CONDUIT ROUTING WITH THE ARCHITECT, STRUCTURAL, AND THE GC PRIOR TO ROUGH IN.



TECHNOLOGY PLAN - FIRST FLOOR

Scale: 1/8" = 1'-0"

AGP

the Abila Griffin
Partnership L.L.C.

313 S. E. 5th Street
MOORE, OK. 73160
405.735.3477
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www.theAGP.net

CEDAR CREEK

CIVIL

KFC ENGINEERING

STRUCTURAL

SALAS O'BRIEN

MECHANICAL / ELECTRICAL

NY
drawn by

AY
checked by

FEBRUARY 2026
date

REVISIONS		
Δ	DESCRIPTION	DATE
1	ADD 01	03/26/2026

MOORE
PUBLIC SCHOOLS

OLD SCHOOL
REPLACEMENT

sheet no:

T201

Salas O'Brien

Oklahoma City
2900 S. Telephone Road, suite 120
Moore, OK 73160
CA# 7058 Expiration Date: 06/30/27
Salas O'Brien Project Number: 2550-01554-00

OWNERSHIP USE OF DOCUMENTS:

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RIGHTS OF ALL PLANS AND DRAWINGS
DESIGNED AND/OR PRODUCED. PLANS
AND DRAWINGS ARE NOT TO BE
REPRODUCED IN ANY FORM OR MANNER
WITHOUT THE EXPRESSED WRITTEN
CONSENT OF AGP.

VIDEO INTERCOM DOOR SYSTEM SPECIFICATIONS

MANUFACTURE
AVIGILON (NO SUBSTITUTIONS).
AVIGILON REQUIRED EQUIPMENT

3.0CHAVIRO1-IR
3.0 MP, H4 Video Intercom; WDR,LightCatcher; Day/Night; 1.83mm
f/2.4; Integrated IR; Recessed Mount

H4VI-AC-RELY1
Safety Relay for H4 Video Intercom

H4VI-MT-SURF1
Surface mount adapter for H4 Video Intercom

ACC7-ENT
ACC 7 Enterprise camera channel license

INSTALLATION

- Video Intercom system requires a Cat 6 network drop ran to the nearest IDF
- Video Intercom system requires an 18 gauge 4 conductor cable ran between the video intercom station and the entry door Keyscan controller unit. **MPS to have final determination of camera location and field of view (Call Jack Phillips for final location and view phone 473-5225)**
- Each installed Video Intercom System requires a license.
- All network drops shall be connected with patch cords to a switch at each rack location.
- No Substitutions.

Horizontal Cabling
Requirements

- See MPS Structured Cabling Specifications for camera network cabling installation, labelling and testing requirements.

Warranty

- Contractor shall provide a 1 year parts and labor warranty against defective workmanship and/or system component failure.
- Contractor shall execute a Lifetime Applications Assurance Warranty for parts and labor to support stated applications from the connectivity Manufacturer.

End of Section

FIRE ALARM SPEICIFICATIONS - SK PROTOCOL ONLY

Part 1 - General

2.01 Manufacturers

- Fire System Manufacturer shall be Silent Knight.
(No Substitutions)
- Notification appliance Manufacturer shall be System Sensor. (No Substitutions)
- Device Manufacture shall be as specified in equipment description. (No Substitutions)
- Cable Manufacturer shall be Genesis. (Or Equivalent)

1.03 Fire Systems Equipment Description

NOTE: Contractor shall use SK Protocol devices. If location has existing SD Protocol devices, contractor shall replace all SD Protocol devices with SK Protocol devices. Contractor shall not combine SD & SK protocol devices to one system.

- Fire alarm control shall be Silent Knight Model # 6820XL or 6820EVS (If voice evac is required). (No Substitutions) If location has an existing 5820XL, contractor shall replace with a 6820XL or 6820EVS.
- Fire Alarm signaling line circuit expander shall be Silent Knight Model # 6815. (No Substitutions) If location has existing 5815XL, contractor shall replace with 6815 to support SK Protocol devices. Contractor shall not combine SD & SK protocol devices to one system.
- Fire alarm distributed power module NAC Expansion shall be Silent Knight SK-PS6 / SK-PS10 or Fire-Lite Model #'s FL-PS6 / FL-PS10. (No Substitutions)
- Fire alarm intelligent power supply shall be Silent Knight Model # 5895XL. (No Substitutions)
NOTE: The 5895XL NAC circuits will not sync with the main control panels NAC circuits. If new NAC circuit synchronization is required with existing NAC circuits, use the SK-PS6/FL-PS6 or SK-PS10/FL-PS10
- Fire alarm remote Annunciator shall be Silent Knight Model # 5860 (Grey) and surface mount trim ring 5860TG (Grey) shall be used if surface mounted. (No Substitutions)
- Fire alarm addressable manual pull station shall be Silent Knight Model # SK-PULL-DA. (No Substitutions)
- Fire alarm addressable photoelectric smoke detector shall be Silent Knight Model # SK-PHOTO-W. (No Substitutions)
- Fire alarm addressable heat detector shall be Silent Knight Model # SK-HEAT-W. (No Substitutions)
- Fire alarm base shall be Silent Knight Model # B300-6. (No Substitutions)
- Smoke Detectors in areas that require a CO Detector shall be SK-FIRE-CO-W. (No Substitutions)
- Fire alarm addressable input module shall be Silent Knight Model # SK-MONITOR or SK-MONITOR-2. (No Substitutions)
- Fire alarm addressable relay module shall be a Silent Knight Model # SK-RELAY. (No Substitutions)
- Fire alarm SLC line isolator shall be Silent Knight Model # SK-ISO. (No Substitutions)
- Fire alarm Duct detectors and Duct Detector Remote Test Stations shall be Silent Knight Model #'s SK-DUCT and RTS151KEY. If a Form-C relay is required, please add an SK-RELAY. (No Substitutions)
- Fire alarm Horn / Strobe signaling device shall be System Sensor Model # P2WL. (Model PC2WL can be substituted if mounted on non-stainable ceiling tile. No other Substitutions)
- Fire alarm Strobe signaling device shall be System Sensor Model # SWL. (Model SCWL can be substituted if mounted on non-stainable ceiling tile. No other Substitutions)
- Fire alarm strobe synch module shall be System Sensor Model # MDL3. (Not needed on version 9 panels or newer) (No Substitutions)
- Fire alarm Outdoor strobe signaling device shall be System Sensor Model # P2RK. (No Substitutions)
- Fire alarm Speaker / Strobe signaling device shall be System Sensor Model # SPSWL. (Model SPSCWL can be substituted if mounted on non-stainable ceiling tile. No other Substitutions)
- Fire alarm Speaker signaling device shall be System Sensor Model # SPWL. (No Substitutions)
- Fire alarm 50-watt Voice Evac expansion system shall be as needed Silent Knight SKE-450 (Single Zone), SKE-450-ZN4 (4 Zone) or SKE-450-ZN6 (6 Zone). (No Substitutions)

1.01 Systems Installation

- All fire alarm junctions and or splices shall be soldered and insulated.
- All Ceiling mounted devices shall be mounted on non-stainable ceiling tiles.
- All circuits and wiring shall be labeled at all terminating ends.
- All fire system wiring shall be RED in color and non-shielded.
- All devices shall be mounted according to the manufacture's specifications.
- All devices shall be properly adjusted and tested prior to job completion.
- All fire pulls shall be dual action.
- All Initiating Devices shall be labeled with their corresponding module and point number. Smoke detector label shall be on smoke detector and smoke detector base and be clearly visible from the finished floor.
- Each Initiating Device Circuits (IDC) shall have Line Isolator Modules installed at the SLC Head End.
- All Initiating Device Circuits (IDC) shall be wired Class B (NFPA Style B).
- All Initiating Device Circuits (IDC) shall be wired with minimum 18 AWG gauge red **NON-Shielded cable**.
- All duct detectors shall be connected to fire system and shall have remote test stations installed accessible and visible from the finished floor. They shall be labeled with their corresponding module and point number.
- All duct detector ARM / AIM shall be installed adjacent to the remote test stations and shall be accessible and visible from the finished floor. They shall be labeled with their corresponding module and point number. (ARM/AIM should not be needed when using SD505-DUCTR duct det.)
- All modules shall have their corresponding module number.
- All notification devices shall be wall mounted where possible. Where wire is exposed decorative wire molding shall be installed from the ceiling to the device. If ceiling mount devices are used, they shall be mounted on a non-stainable ceiling tile.
- All notification devices shall be labeled with their corresponding module, circuit number and device number. Label shall be on the base and be clearly visible from the finished floor. EOL Device shall be labeled as such.
- All horn / strobes and strobes shall be synchronized.
- All Notification Appliance Circuits (NAC) shall be wired Class B (NFPA Style Y).
- All Notification Appliance Circuits (NAC) shall be wired with minimum 16 AWG gauge red **NON-Shielded cable**.
- Protective grommets shall be installed on all conduits to protect wire.
- All SBUS and SLC circuits shall be wired with red **NON-shielded cable**.
- All wire shall be run in J hooks above ceiling with a minimum space of 6" from ceiling deck. All wire shall be in separate pathways 6" from other system wiring. No wire ties allowed. No wire shall be run between the red iron and roof deck.
- Main control panel shall have a CAT 6 cable ran between the main control and the phone company DMARC for monitoring purposes.
- All wire ran between building shall be in conduit and shall be **Non-shielded** direct burial cable. It shall be a minimum of 4 conductor 16 AWG copper. Wire shall have lightning suppression installed where it enters building.
- Installer shall have a commercial fire technician on the job site at all times during the installation.
- Installer shall supply the electrical and or masonry contractors with specially back boxes such as remote annunciator recessed back boxes etc. and coordinate with them to ensure that all necessary conduits, back boxes, etc. are installed in the proper locations.
- Follow and adhere to installation practices specified by the applicable NFPA 72 standards.
- Follow and adhere to installation practices specified by NFPA-70 National Electric Code, Edition 2008.
- Follow and adhere to installation practices specified by the Manufacturers.

1.02 Products Installed but not Supplied Under This Section

- All conduit and EMT required for Fire cabling pathway in/out of closets and in/out of wall cavities at the work area. EMT or Conduit for pathways shall have no more than two 90-degree sweeps and no continuous section over 100'.
- All core holes and poke through devices in the floor for the installation of Fire cabling.
- All core holes and EMT sleeves between floors for the routing of Fire cabling.
- Back boxes for the mounting of Fire Devices.
- Drag line or pull string at the back boxes fished through EMT or conduit to the other end for installing Fire Cabling.

1.03 Quality Assurance

1.03.01 Qualifications

- Install all components as directed by Manufacturer's installation guidelines.
- All products shall bear the mark of UL or ETL for performance level.
- System installation shall meet all applicable Local/State codes and safety requirements where project is located.
- All products shall be new and unused in original packaging.

1.03.02 Bidder/Installer Qualifications

- Bidding contractor shall be a local licensed Commercial Fire Alarm Company with licensed Commercial Fire Alarm technician(s) on staff.
- Bidding contractor shall have a minimum of one year experience installing Silent Knight Addressable fire panels.
- Bidding contractor shall have a minimum of 5 years experience installing commercial fire alarms.
- Bidding contractor shall be able to provide insurance at the request of the owner.
- Bidding contractor shall have a commercial fire technician on the job site at all times during the installation.

1.04 Sequencing

- Contractor shall coordinate with Owner's project manager on sequencing of various trades and construction teams for the lifecycle of the project.

1.05 Scheduling

- Contractor shall provide a detailed construction schedule with hard dates for completion of roughing in cables, terminations and testing once scheduling sequence has been determined to the Owner's Project Manager.

1.06 Warranty

- Contractor shall provide a 1-year parts and labor warranty against defective workmanship and/or system component failure. (1-year warranty shall begin at job completion)

Part 2 - Products

2.02 Source Quality Control

- Materials shall be purchased from Distributors authorized by system Manufacturers to sell new and unused components.

Part 3 -

3.01 Field Quality Control

- Contractor shall make available all ceiling and termination work for inspection by Manufacturer's representative or owner's representative.
- Contractor shall replace all defective components.

3.02 Adjusting

- No additional work outside of the contract scope of work shall be completed without the approval of the Owner or Owner's representative.

3.03 Protection

- It is the responsibility of the Contractor to ensure equipment is protected from dust and water during the project with appropriate materials.
- Remove all protective covers and protective materials from equipment prior to turnover to Owner.

1.04 Submittals

1.04.01 Prior to installation

- Show complete map of system design for approval by Owner.

1.04.02 Prior to final acceptance

- Provide a soft CAD copy As-Built showing layout of panel, initiating devices, notification devices and all mounted equipment upon Substantial Completion.
- Ensure all warranties specify that the Owner is entitled to all rights guaranteed by the warranty for various components.

Fire System Installation Completion Check List

Part 1 - General

- Fire System Completion Check List

1.01 Completion Check List

- A map of the entire system showing device numbers and wire routes has been left inside the main control panel and a copy has been given to Jack Phillips with MPS.
- All panel programming has been checked and is correct.
- Panel(s) has been tested for proper operation.
- All zones have been tested to verify proper description at keypad.
- All zones have been tested to verify proper reporting to the monitoring station.
- All points have been tested to verify proper description at the keypad.
- All horn/strobes and strobes have been tested for proper operation.
- All smoke detectors have been tested and dust covers removed.
- All devices have been tested for proper operation.
- All cabinets are labeled on the outside with module numbers and point numbers.
- All cabinets are labeled on the inside with module numbers by the corresponding module and point descriptions.
- A list of all zone numbers and zone descriptions have been provided to Moore Public Schools for alarm monitoring purposes.

End of Section

IP CAMERA SYSTEM SPECIFICATIONS

IP CAMERA MANUFACTURE is AVIGILON (NO SUBSTITUTIONS).

AVIGILON EQUIPMENT

INDOOR DOME SINGLE HEAD CAMERA REQUIRED EQUIPMENT LIST

- 4.0C-H5A-D1-IR
- ACC7-ENT LICENSE - 1 per camera

INDOOR MULTI-HEAD 2 HEAD CAMERA REQUIRED EQUIPMENT LIST

- 10.0C-H5DH-DO1-IR
- ACC7-ENT LICENSE - 1 per camera

INDOOR FISHEYE CAMERA REQUIRED EQUIPMENT LIST

- 12.0C-H6A-FE-360-D01-IR
- ACC7-ENT LICENSE - 1 per camera

INDOOR MULTI-HEAD 3 HEAD CAMERA REQUIRED EQUIPMENT LIST

- 9C-H5A-3MH (3x3MP)
- Axis T8134 Midspan 60W Power Injector
- ACC7-ENT LICENSE - 1 per camera
- H5AMH-AD-DOME1
- H5AMH-DC-COVR1
- H4AMH-AD-IRIL1

INDOOR MULTI-HEAD 4 HEAD CAMERA REQUIRED EQUIPMENT LIST

- 12C-H5A-3MH (4x2MP)
- Axis T8134 Midspan 60W Power Injector
- ACC7-ENT LICENSE - 1 per camera
- H5AMH-AD-DOME1
- H5AMH-DC-COVR1
- H4AMH-AD-IRIL1

OUTDOOR DOME SINGLE HEAD CAMERA REQUIRED EQUIPMENT LIST

- 6.0C-H5A-DO1-IR
- ACC7-ENT LICENSE - 1 per camera

OUTDOOR MULTI-HEAD 2 HEAD CAMERA REQUIRED EQUIPMENT LIST

- 16.0C-H6ADH-DO1-IR
- NPTA-1201
- WLMT-1021
- ACC7-ENT LICENSE - 1 per camera

OUTDOOR MULTI-HEAD 3 HEAD CAMERA CORNER MOUNT REQUIRED EQUIPMENT LIST

- 15C-H5A-3MH (3x5MP)
- Axis T8134 Midspan 60W Power Injector
- ACC7-ENT LICENSE - 1 per camera
- H5AMH-AD-PEND1
- H5AMH-DO-COVR1
- H5AMH-AD-IRIL1
- WLMT-1001
- CRNMT-1001

OUTDOOR MULTI-HEAD 3 HEAD CAMERA WALL MOUNT REQUIRED EQUIPMENT LIST

- 15C-H5A-3MH (3x5MP)
- Axis T8134 Midspan 60W Power Injector
- ACC7-ENT LICENSE - 1 per camera
- H5AMH-AD-PEND1
- H5AMH-DO-COVR1
- H5AMH-AD-IRIL1
- WLMT-1001

CAMERA SERVER INFORMATION, CONTRACTOR TO PROVIDE, INSTALL AND CONFIGURE THE FOLLOWING AT NEW BUILDINGS OR AS NEEDED TO ACCOMMODATE ADDITIONAL CAMERAS TO EXISTING SYSTEM:

- 1 - Dell Server part# NVR6-FRM-FORM-D-7Z7TB-S22
- 1 - SFP fiber connector, part# NVR6-AINVR2-FORM-D-SFPPLUS-SR
- 1 - Cyber Power UPS Model OL1500RXL2UM in the MDF dedicated for each new camera server

The contractor shall be responsible for the complete installation, configuration, and programming of the video surveillance system, including all cameras and the video surveillance server. The contractor shall ensure the system is fully operational, integrated, and tested prior to project closeout. The contractor responsible for installing the video surveillance cameras shall also perform all system programming, including configuration of the video surveillance server. No secondary subcontractors or sub-tiers shall be used for any portion of the installation or programming work.

INSTALLATION

- Install cameras on adjacent walls were possible. If it must be mounted on ceiling, it shall be on a water-resistant non-stainable ceiling tile. **MPS to have final determination of camera location and field of view (Call Jack Phillips for final location and view phone 473-5225)**
- Any cameras installed on ceiling shall be mounted on a water-resistant non-stainable ceiling tile. (BIDDING CONTRACTOR SHALL PROVIDE NON-STAINABLE TILE)
- Each installed camera needs a camera license.
- All network drops shall be connected with patch cords to a switch at each rack location.
- No Substitutions.

Horizontal Cabling
Requirements

- See MPS Structured Cabling Specifications for camera network cabling installation, labelling and testing requirements.

Warranty

- Communications Contractor shall provide a 1 year parts and labor warranty against defective workmanship and/or system component failure.
- Communications Contractor shall execute a Lifetime Applications Assurance Warranty for parts and labor to support stated applications from the connectivity Manufacturer.

End of Section

Audio Visual Systems for Instructional Spaces Specifications

Part 1 - General

1.01 Instructional Spaces

- Reference technology drawings and detail sheets for classroom configuration and part numbers.

1.02 Special Spaces

- Reference technology drawings and one line diagrams.

1.03 Flat Panel Displays

- All non interactive Flat Panel displays shall be 43" Samsung BE Series.

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OLD SCHOOL
REPLACEMENT

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Salas O'Brien

Oklahoma City
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Moore, OK 73160
CA# 7058 Expiration Date: 06/30/27
Salas O'Brien Project Number: 2550-01554-00

DAS - DISTRIBUTED ANTENNA SYSTEM

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes products and execution requirements pertaining to systems for internal cellular and antenna systems. System components and support systems are covered under this document.

B. Internal cellular and antenna systems are commonly referred to as a Neutral-Host Distributed Antenna System (DAS) for supporting Wireless Service Providers (WSP)

C. System components include, but are not limited to Network Units, Coverage Units, Fiber Hubs, Fiber Range Extenders, Donor Antennas, Ceiling Omni Antennas, Directional Antennas, Smart Server Antennas, RF and Horizontal Coax Cabling, Category 6/6A Structured Cabling, and Optical Fiber Structured Cabling

D. Product specifications, general design considerations, and installation guidelines are provided in this document. Quantities for all internal cellular and antenna system products shall be provided as required to complete the project as shown on floor plans per the design.

E. The DAS shall provide coverage for the WSP's listed below.

- a. AT&T
- b. Verizon
- c. T-Mobile

F. Substitutions: No substituted products shall be installed except with written approval by Owner.

G. The project design and system component installation shall be performed or managed by a Nextivity certified system integrator (SI).

H. Contractor to provide and install a complete and functioning DAS system in the storm shelter portion of the building with three donor antennas for boosting AT&T, VERIZON, and T-MOBILE.

1.2 CONTRACT WORK REQUIREMENTS

- A. General:
 - 1. Provide the following pre-deployment surveys upon award:
 - a. Rooftop macro survey of all available brands and operators, to include:
 - a. Signal Strength
 - b. SINR
 - c. QoS
 - b. Indoor coverage survey of existing cellular performance of all operators
 - 2. Furnish all labor, materials, tools, equipment and services for the installation in accordance with general provisions of specifications and the Contract Drawings.
 - 3. Report percentage of work completed on a monthly basis.
 - 4. Completely coordinate with work of all other trades.
 - 5. Provide all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure and complete installation, whether or not specifically indicated in the Contract Documents.
 - 6. Provide all floor penetrations, floor sleeves, conduit raceways, wall penetrations, etc. not shown on the electrical plans but needed for the routing of cabling provided herein.
 - 7. Provide fire stopping.
 - 8. Provide labor for installation, testing, and commissioning of system components.
 - 9. Confirm that the site has the necessary space and power to support the DAS as well as RF Sources.
 - 10. Contractor shall provide and install a CEL-FI QUATRA 4000c system by NEXTIVITY.
 - 11. Provide post installation signal testing report to owner.
 - 12. Contractor shall provide and install the required lightning arrestors for all donor antennas per NEXTIVITY's recommended installation practices
 - 13. Contractor shall provide and install three donor antennas for signal boosting of AT&T, VERIZON, and T-MOBILE services. Antennas shall be mounted to the parapet wall with a minimum spacing of twelve (12) to sixteen (16) inches between antennas. Conduit pathway route shall avoid roof penetrations. Contractor shall mount antennas on the back side of building so the antennas cannot be seen from the front of the building. All mounting hardware shall be designed to withstand wind loads of not less than ninety (90) miles per hour. Contractor shall coordinate with the electrical contractor to ensure all required conduit pathways and supporting hardware are provided and installed as necessary.

1.3 SUBMITTALS

- A. Submittals shall be submitted in one single package. Partial submittals will not be considered.
- B. Material lists, schedule of values, lists of subSystem Integrators, and proof of System Integrator (SI) qualifications shall be provided to Owner and/or Engineer - upon request and shall follow the guidelines as stated in the General Requirements (Division 1 of the specification).
- C. Performance bonds, payment bonds, and insurance certifications shall be submitted by the System Integrator prior to the execution of the contract.
- D. Shop drawings shall be submitted to Owner and Engineer. All communication system shop drawings shall include:
 - 1. Manufacturer's data (specifications, "cut sheets").
 - 2. Wiring diagrams for all installed cabling.
 - 3. Equipment rack/cabinet layouts.
 - 4. Proposed labeling schemes and labeling method.
 - 5. Submit copies of certifications for all technicians and the project manager who will support this project.
 - a. A list of managers and technicians certified
 - b. Approved manufacturer classes satisfactorily completed.
 - 6. System Integrator shall submit a test plan with the submittal package that defines the tests required to ensure that the system meets technical, operational, and performance specifications. The test plan must also meet manufacturer's certification requirements.
 - 7. Work shall not proceed without the Owner – Engineer approval of the submitted items.

E. Drawings & Inspection of Site:

- 1. Communications floor plan drawings are to scale and typically are not dimensioned. The System Integrator shall not scale drawings for equipment placement and clearances. Dimensions given on drawings shall always take precedence over scaled drawings.
- 2. Any existing wires, utilities, or equipment shown on the drawings are shown for general information and to the best knowledge of the Owner – Engineer. The System Integrator shall verify all existing wires, utilities, or equipment.
- 3. The System Integrator shall verify distances and equipment placements coordinating locations with other trades, construction managers, and general System Integrator prior to installation.
- 4. The System Integrator shall review all site conditions prior to submitting a bid on this project. Any obvious discrepancies between the site conditions and bidding documents shall be brought to the attention of the Owner – Engineer at the time of bidding so clarification can be made by addendum.
- 5. Change order requests for additional costs related to the System Integrators' misunderstanding related to the amount of work involved and lack of knowledge related to the site conditions will not be allowed.
- 6. Convene pre-installation meeting 2 weeks prior to start of installation of horizontal communications cabling. This meeting will review the installation timeline and allow for coordination with additional System Integrators on site.

1.4 QUALITY ASSURANCE

- A. Installation Reference Standards (all codes and standards compliance will be to the most current revision available, including applicable addendums). Installation shall comply with the following:
 - 1. NFPA 70: National Electric Code®, current edition or as specified per local codes and Authority Having Jurisdiction (AHJ).
 - 2. ANSI/TIA-568-D - Generic Communications Cabling for Customer Premises.
 - 3. ANSI/TIA -568 -1-D Commercial Building Telecommunications Cabling Standard. Part 1: General Requirements
 - 4. ANSI/TIA-568-2-D: Commercial Building Telecommunications Cabling Standard
 - 5. ANSI/TIA-568-3-D: Commercial Building Telecommunications Cabling Standard, Part 3: Optical Fiber Cabling Components Standards
 - 6. ANSI/TIA-568-D: Commercial Building Standard for Telecommunications Pathways and Spaces
 - 7. ANSI/TIA-606-B: The Administration Standard for the Telecommunications infrastructure of Commercial Building
 - 8. ANSI/TIA-607-C. Commercial Building Bonding and Grounding (Earthing) Requirements for Telecommunications
 - 9. BICSI-TDMM, Building Industries Consulting Services International, Telecommunications Distribution Methods Manual (Revision 12 or most current revision)

B. Materials:

- 1. All materials shall be listed with UL or ETL and shall be marked as such.
- 2. Products shall be regularly catalogued items of the manufacturer and shall be supplied as a complete unit in accordance with the manufacturer's standard specifications with any optional items required for proper installation unless otherwise noted.
- 3. Material shall be delivered to the site in the original packing.
- 4. Alternates are to be considered based on the bidding requirements and as approved "as equal".
- 5. Approved Products: (Basis of Design)
- 6. Network Units: Nextivity
- 7. Coverage Units: Nextivity
- 8. Fiber Hubs: Nextivity
- 9. Fiber Range Extenders: Nextivity
- 10. Donor Antennas: Nextivity
- 11. Ceiling Omni Antennas: Nextivity
- 12. Directional Antennas: Nextivity
- 13. Smart Server Antennas: Nextivity
- 14. Category 6 Cabling: Leviton or Equal
- 15. Optical Fiber Cabling: Leviton or Equal
- 16. RF Coax: CommScope or Equal
- 17. Horizontal Coax Cabling: CommScope or Equal
- 18. Accessories: Nextivity or System Integrator Supplied
- 19. Scanner Tool for Site Surveys Nextivity Compass XR

C. System Integrator Qualifications:

- 1. The System Integrator shall have experience in the installation and testing of similar systems as specified herein and shall have completed at least two projects of similar size and scope within the last 24 months. The System Integrator shall provide references upon request (including the project name, address, date of implementation, client name, title, telephone number, and project description.)
- 2. The System Integrator bidding on communication systems specified herein shall be an Nextivity Certified System Integrator. The awarded System Integrator must be able to install, service, and warrant the specified product prior to the time of bid and throughout the duration of the installation; or, the bidding System Integrator shall utilize a sub-System Integrator(s) certified by Nextivity to install, service, and warrant the specified product. The awarded System Integrator must be eligible to support the Nextivity warranty. Manufacturer certifications shall not be project specific and should be valid for any and all projects completed by System Integrator.
- 3. The System Integrator must meet all training requirements from Nextivity. The System Integrator must be in good standing with a minimum of 30% of the technicians on site and at least one manager current with the required training.
- 4. The System Integrator is responsible for workmanship and installation practices in accordance with Section 1.4.A Installation Reference Standards.
- 5. The System Integrator must maintain a state System Integrator's license as required by the state.
- 6. The System Integrator shall provide copies of certificates for proof of manufacturer's training, manufacturer's certified installer, authorized distributor in the shop drawing submittal and at the request of the Owner – Engineer to verify compliance with specification prior to recommendations for awarding bid.

1.5 MAINTENANCE

A. All materials used on this project shall be new. Used and refurbished equipment is not permitted. Provide equipment to site in original packaging whenever practical.

B. The System Integrator is responsible for scheduling all deliveries and providing proper receipt, handling, and storage of all materials. Protect all equipment from physical damages (dents, scratches, dust, water, paint, chemicals, and temperature extremes) and vandalism, or theft. The System Integrator shall replace any damaged or stolen equipment. The System Integrator is responsible for all equipment until final project acceptance by Owner.

1.6 WARRANTY

A. Nextivity Limited Warranty: warrants each Nextivity Product against defects in materials and workmanship when used in accordance with Nextivity's published guidelines for the Warranty Period.

B. The foregoing Limited Warranty does not apply to (i) damage or loss during shipment for replacement or repair; (ii) Products that have been subjected to accident, abuse, misuse, neglect, shipping or other physical damage, improper installation or operation, improper testing or use contrary to the instructions given by the Nextivity; or (iii) Products that have been repaired, altered, or modified by anyone other than Nextivity.

C. The warranty period is 24 months with an option to extend the warranty coverage in 12-month or 36-mont increments up to a maximum of 60 months from the time of purchase.

PART 2 – PRODUCTS

2.1 MANUFACTURES

- A. Specified manufacturer: Nextivity
- B. Others per section 1.4.B.
- C. Alternatives not permitted unless approved by Nextivity

2.2DESCRIPTION - DAS SYSTEM

- A. The system shall consist of the following:
 - 1. The system shall obtain the signal off-air and requires roof mounted antenna/s
 - 2. Location of antennas will be determined as part of the pre-deployment survey
 - 3. The donor antenna will connect to the system via coaxial cable
 - 4. The signal shall be distributed through the required improvement area
 - 5. Options for remote monitoring
- B. Intelligent and Dynamic Channelization
 - The system shall be intelligent and dynamically channelized to ensure:
 - 1. Each MNO and individual band shall be optimized independently and dynamically to adapt with network changes
 - 2. Such individual and dynamic optimization shall ensure continuous, optimal and equal coverage performance of each MNO and band
 - 3. Remove interference associated with traditional repeaters
 - 4. Dynamically adjust both uplink and downlink independently per band per MNO for optimal performance
 - 5. Dynamically adjust to the changing outdoor macro parameters to constantly optimize indoor performance independently for each MNO and band
 - 6. Implement advanced echo cancellation to ensure optimal system and cellular QoS
 - 7. Such automated and dynamic self-configuration and optimization shall at all times protect the MNO networks from interference and harm
- C. Digital Signal Distribution
 - The selected solution shall provide digital signal distribution throughout the 'required improvement area'. This is important to ensure:
 - 1. Conformance with the standard Category and fiber cabling infrastructure as defined by the building owner/enterprise
 - 2. Existing cabling infrastructure can be used, where available
 - 3. Connection between active components of the solution is lossless and utilizes power-over-Ethernet (PoE)
 - 4. Existing cable management and cable trays can be used between active components
 - 5. Any existing new infrastructure cabling required to be installed between active components is fast to deploy and gives minimal disruption to the building, the business and its employees
 - 6. Existing communications rooms and IDF's can be used with existing patch panels and cables used to distribute signal and power

D. Remote Monitoring

- The system shall have remote monitoring to enable the contractor to provide proactive maintenance support:
 - 1. On-premises LAN connection or LTE modem option should be available
 - 2. Remote monitoring should be via an online portal.

E. Live Monitoring, Alerts, and Alarms Monitoring

- The system shall be monitored live and provide alerts and alarms to contractor's support team. These shall include:
 - 1. Monitoring of NU current status
 - 2. Monitoring of CU current status
 - 3. Monitoring of macro signal status
 - 4. Detailed drill down option to enable remote investigation
 - 5. Trend information over selectable timeframe
 - 6. Reports
 - 7. Undertake remote maintenance activities, e.g., recycling CU power

2.3 MATERIALS / COMPONENTS

- A. Network Unit (NU)
 - 1. Neutral-Host active DAS hybrid cellular coverage Network Unit
 - a. Specifications per Data Sheet
 - b. Capability to be wall or 19-inch rack mounted
 - c. Have intelligent operation that adapts to changes in the outdoor macro network to ensure dynamically and consistently optimized indoor coverage performance, as set out in Section 2.2.C
 - d. RJ45 and fiber ports to support up to 12 Coverage Units/radio units per NU
 - e. RJ45 management port for live monitoring and maintenance
 - f. Each MNO shall have a dedicated high performance N-type donor port. This ensures the MNOs are individually and automatically optimized to provide the appropriate gain and to ensure each MNO has equal indoor coverage
 - g. FCC Part 15, 20, 22, 24, 27, 90, and 96 per DAS design
 - h. Four donor ports to support AT&T, Verizon, T-Mobile, and Private Networking
 - i. Connection via ethernet or LTE modem to Nextivity WAVE Platform for remote monitoring
 - j. Manufacturer: Nextivity part number Q44-1M34CNU
- B. Coverage Unit (CU)
 - 1. Neutral-Host active DAS hybrid cellular coverage Coverage Unit
 - a. Specifications per Data Sheet
 - b. Power via PoE
 - c. Connect to the NU via Category cabling to provide lossless RF distribution
 - d. Have an option for PoE extension to increase distance between devices
 - e. A high performance 4.3-10 RF antenna port for quality of connection to the passive antenna/s
 - f. Various mounting options for wall, ceiling, rack
 - g. FCC Part 15, 20, 22, 24, 27, 90, and 96 per the DAS design
 - h. Connection to NU via Category 6/6A structured cabling and Power over Ethernet
 - i. Manufacturer: Nextivity part number Q41-RECU

C. Fiber Hub

- 1. Neutral-Host active DAS hybrid cellular coverage Expansion Solution
 - a. Specifications per Data Sheet
 - b. FCC Part 15 per the DAS design
 - c. Connection to NU via Category 6/6A structured cabling and Power over Ethernet
 - d. Manufacturer

er: Nextivity part number Q40-1234FNU

D. Fiber Range Extender

- 1. Neutral-Host active DAS hybrid cellular coverage Expansion Solution
 - a. Specifications per Data Sheet
 - b. FCC Part 15 per the DAS design
 - c. Connection between Fiber Extender NU and CU via optical fiber cabling
 - d. Connection to NU via Category 6/6A structured cabling and Power over Ethernet
 - e. Manufacturer: Nextivity NU part number Q40-0XNU

Nextivity CU part number Q40-0XCU

E. Donnor Antennas

- 1. LPDA-R
 - a. Specifications per Data Sheet
 - b. Electrical Specifications
 - 1. Frequency Range: 617 – 4000 MHz
 - 2. Gain: 12-14 dBi
 - 3. VSWR: ≤ 2.0
 - 4. Polarization: Vertical
 - 5. Input Impedance: 50 Ohms
 - 6. Maximum Input Power: 50W
 - c. Mechanical Specifications
 - 1. Connector: N-Female
 - 2. Mounting: Pole
 - 3. Operating Temperature: -40°C to +55°C
 - d. Manufacturer: Nextivity part number A62-V44-201

2. Wideband Directional Antenna

- a. Specifications per Data Sheet
- b. Electrical Specifications
 - 1. Frequency Range: 698 – 960 MHz and 1710 - 2700 MHz
 - 2. Gain: 10 dBi (698-960 MHz) and 11 dBi (1710-2700 MHz)
 - 3. VSWR: ≤ 2.0 (698-960 MHz) and ≤ 1.5 (1710-2700 MHz)
 - 4. Polarization: Vertical
 - 5. Input Impedance: 50 Ohms
 - 6. Maximum Input Power: 50W
- c. Mechanical Specifications
 - 1. Connector: N-Female and SMA Male
 - 2. Mounting: Pole
 - 3. Operating Temperature: -40°C to +65°C
 - d. Manufacturer: Nextivity part number A32-V32-200 or A32-V32-201

3. Wideband and Directional Panel Antennas

- a. Specifications per Data Sheet
- d. Manufacturer: Nextivity various part numbers per the spec sheets

F. Server Antennas

- 1. Smart Server Antenna: Low profile omnidirectional for 360° coverage and active monitoring.
 - a. Specifications per Data Sheet
 - b. Includes Bluetooth Low Energy connectivity
 - b. FCC Part 15 per DAS design
 - c. Electrical Specifications
 - 1. Frequency Range: 617 – 3980 MHz
 - 2. Average Gain: 2.2 – 3.8 dBi
 - 4. Polarization: Horizontal
 - 5. Input Impedance: 50 Ohms
 - 6. Maximum Input Power: 2W
 - d. Mechanical Specifications
 - 1. Connector: N-Female
 - 2. Mounting: Hard ceiling mounting place
 - 3. Operating Temperature: 0°C to +40°C
 - e. Manufacturer: Nextivity part number A91-JV4-C00

2. LP SISO Indoor Omni Antenna

- a. Specifications per Data Sheet
- b. FCC Part 15 per DAS design
- c. Electrical Specifications
 - 1. Frequency Range: 617 – 4000 MHz
 - 2. Average Gain: 3 – 5 dBi
 - 4. Polarization: Linear, Horizontal
 - 5. Input Impedance: 50 Ohms
 - 6. Maximum Input Power: 50W
- d. Mechanical Specifications
 - 1. Connector: N-Female
 - 2. Mounting: Hard ceiling mounting place
 - 3. Operating Temperature: -40°C to +60°C
 - e. Manufacturer: Nextivity part number A11-H43-201

3. Indoor Omni Dome Antenna

- a. Specifications per Data Sheet
- b. FCC Part 15 per DAS design
- c. Electrical Specifications
 - 1. Frequency Range: 698 – 5900 MHz
 - 2. Average Gain: 2 – 5.5 dBi
 - 4. Polarization: Vertical
 - 5. Input Impedance: 50 Ohms
 - 6. Maximum Input Power: 50W
- d. Mechanical Specifications
 - 1. Connector: N-Female
 - 2. Mounting: Fix with nut
 - 3. Operating Temperature: -40°C to +60°C
 - e. Manufacturer: Nextivity part number A11-V43-121 (N-Type) / A11-V43-100 (SMA)

4. Other Indoor Antennas

- a. Specifications per Data Sheet
- b. Manufacturer: Nextivity

G. Category UTP Cabling

- 1. Category 6 UTP Plenum 4-pair Cabling

REFERENCE STRUCTURED CABLING SPECIFICATION

2. Category 6 Patch Cords – Standard Diameter - UL Listed

REFERECE STRUCTURED CABLING SPECIFICATION

H. Fiber-Optic Requirements

- a. General Specifications:
 - REFERENCE STRUCTURED CABLING SPECIFICATION

PART 3 – EXECUTION

3.1 INSTALLATION: GENERAL

A. DAS Active and Passive Components

- 1. The System Integrator shall design, install, test, and commission in DAS solution including all the active and passive components in accordance with the manufacturer's published installation instructions and training.

B. Open Cable Support installation

REFERENCE STRUCTURED CABLING SPECIFICATION

C. Cable Installation

REFERENCE STRUCTURED CABLING SPECIFICATION.

3.2 INSTALLATION: COMMUNICATIONS INFRASTRUCTURE

A. Category 6 Horizontal Cables

- 1. Maximum cable lengths to be 328 feet (100 m) or 492 ft (150 m) when using Cat-6A cabling, including service loop. Provide all necessary installation materials, tools and equipment to perform insulation displacement type terminations at all communications outlets, patch panels and 110 punch-down blocks. See exception in 3.1.B.5. Support and secure cables at patch panels using rear cable management bracket supplied with panel.

B. Optical Fiber Cable:

- 1. All optical fiber installations shall be installed using open-cabling methods. Limit the cable-bending radius to 20 times the cable diameter during installation, and 10 times the diameter after installation. Provide all required tools, materials, consumables, and equipment necessary for cleaning and field termination of optical fiber connectors. Label each end of each cable as to source and destination. Terminate optical fibers in a consistent, consecutive manner at each end.
- 2. Optical fiber cable terminations shall utilize enclosures and components in quantities consistent with the required fiber counts at each end of each segment. During field polish optical fiber connector termination, visually inspect all terminations with a 400-power microscope. Follow all of the connector manufacturer's recommendations. Unacceptable flaws in the terminations will include, but not limited to, scratches, full or partial cracks, bubbles, pits, epoxy residual, dirt, dust, oil, moisture, grinding and sanding debris. The acceptable termination will show a connector tip that is free of all imperfections in 100% of the core and 80% of the cladding. All unacceptable connectors shall be inspected after rework.
- 3. During installation of optical fiber cable do not allow pulling tension to exceed cable manufacturer's specification for the cable being installed. Only the strength member of the cable shall be subjected to the pulling tension.
- 4. All optical fiber connector tips shall be cleaned with proper cleaning tools specifically designed for optical fiber prior to inserting them into mating receptacles or bulkheads.

3.6 CLEANUP

- A. The communications System Integrator shall clean up all debris-related communications cabling installation on a regular basis. Protect all equipment from damage during construction. Equipment not protected shall be replaced at the System Integrator's expense.

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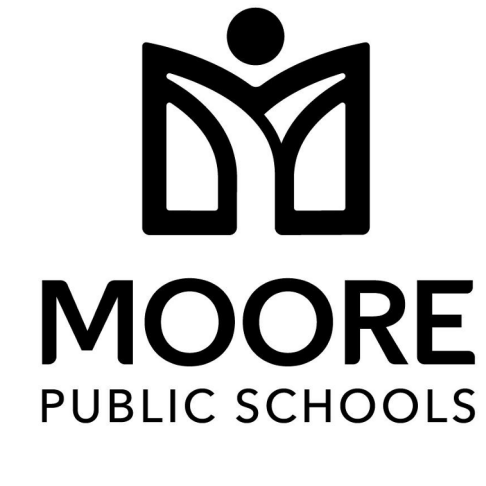
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checked by

FEBRUARY 2026
date

REVISIONS

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1	ADD 01	03/26/2026



OLD SCHOOL
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Salas O'Brien

Oklahoma City
2900 S. Telephone Road, suite 120
Moore, OK 73160
CA#F: 7058 Expiration Date: 06/30/27
Salas O'Brien Project Number: 2550-01554-00

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DIVISION 2 - SITE WORK

SECTION 02811 - UNDERGROUND SPRINKLER SYSTEM

Part 1 - General

1.01 Work Included:

- A. The General / Special Conditions and applicable sections of Division 1 shall apply to this entire section.

1.02 Summary:

This section includes the installation of an irrigation system for tree plantings and turf areas as shown on the Drawings. Components to be installed include, (but not limited to) design of the irrigation system, connection to water supply, main lines, lateral lines, trenching, backfilling, backflow device, automatic controller, bubblers, automatic drain valves, control wiring, fittings, electrical connections, zone valves, manual valves, sleeves under paving, piping, wire decoders, sensors and all necessary accessories to provide a complete operational system.

- A. Contractor shall become familiar with the existing site conditions and other construction activities. Coordinate with the Owner's Representative on current construction activities, utilities, and other construction trades.
- B. All planting bed areas shall be zoned independently from turf and tree zones.

1.03 Related Sections:

- A. Section 02900 - Trees and Turf.
- B. Section 02920 - Landscape Grading.
- C. Section 02970 - Landscape Establishment

1.04 References:

- A. American Society for Testing and Materials (ASTM):
 - 1. D1785-83 - Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40 and Class 200
 - 2. D2241-84 -Poly (Vinyl Chloride) (PVC) Plastic Pipe (SDR-PR)
 - 3. D2287 -Nonrigid Vinyl Chloride Polymer and Copolymer Molding and Extrusion Compounds
 - 4. D2466-78 - Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40
 - 5. D2564-80 -Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings
 - 6. D2855-83 -Making Solvent-Cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings
 - 7. D3139-84 -Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals
- B. National Standard Plumbing Code.
- C. National Electric Code - NFPA 70.

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1.05 Definitions:

- A. Distribution: Diameter of Coverage - diameter of the surface area receiving water (pertains to full or part circle).
- B. Irrigation Heads:
 - 1. Fill-in - heads not located on the basic symmetrical pattern and/or which may not have the same coverage as the heads in the pattern.
 - 2. Ports - The element within the dripper line which controls the amount of water to the plant or area in the subsurface irrigation system.
 - 3. Pop-up Rotor (if required) - water-lubricated, gear-driven head installed flush with the turf, containing a nozzle which rises four (4) inches above the turf when operating.
 - 4. Pop-up Spray - spray head installed flush with the turf or mulch, containing a nozzle which rises four (4) inches above the turf Spray - head containing a nozzle that discharges a fine uniform water spray.
 - 5. Strip - spray head designed for watering long, narrow strips of turf or landscaping, usually in a square or rectangular pattern.
- C. Lines:
 - 1. Header - water line leading off from a zone valve; subject to pressure only when zone is operating.
 - 2. Lateral - water line leading off from a header to a head.
 - 3. Main - water line under constant pressure, supplying the sprinkler zones.
- D. Valves:
 - 1. Automatic Drain - a low pressure valve used to drain main and lateral lines.
 - 2. Manual - a valve used to activate/terminate flow to a zone.
 - 3. Zone - a section of heads controlled by one valve.

1.06 Design Criteria:

- A. General:
 - 1. The system shall be a two wire controlled system with controller and remote controlled valves as manufactured by Hunter Industries or equal. Main line shall be drained with manual drains at all low points, while zones shall be drained automatically at all low points.

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2. The irrigation system design shall specify manufacturer, types of heads, spray nozzles and bodies, and valves to be used. These items shall determine line sizes, types of heads, valve sizes, number of zones and coverage. Manufacturers may be provided as listed in these specifications with similar precipitation rates and GPMs. Changes in pipe sizing, amount of pipe, number or size of valves, number of heads, number of sleeves and other accessories shall be at no additional cost.
 3. For design purposes, the following minimum water coverage shall be provided:
 1. Turf Areas - 95 percent of sodded area indicated to be sprinkled.
 2. Other planting areas - 85% percent.
 4. Main line shall be manually drained, with manual valves at all low points. Lateral lines shall be automatically drained, with automatic drain valves at all low points.
- B. Sleeves:
1. Required number of sleeves shall be provided as required and indicated by the Irrigation System Design. Any additional sleeves required during system installation will be provided at no additional cost to the Owner.
 2. Sleeves and Boring under Sidewalks: The Contractor shall add additional sleeves as necessary to insure proper operation of the irrigation system.
- C. Two Wire Irrigation System Requirements:
1. Provide Hunter ICD-100 through ICD-600 station decoders - or equal - with surge suppression and ground wire as needed to group irrigation remote control valves.
 2. Locate (1) grounding rod every 500 feet along wiring/main line or as per manufacturer's recommendations. Locate ground rods a distance of 12' perpendicular to the mainline. Locate (1) grounding rod at irrigation controller. Locate grounding rods in valve boxes.
 3. Provide 14 AWG/1.6 mm diameter twisted decoder wire in sheathed casing as provided by Hunter Industries. Hunter Industries wire must be used to maintain warranty provided by Hunter. Provide DBR6 or DBY6 wire fittings manufactured by 3M for connection of decoders to valve connections and

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decoders to two wire system. Wire runs shall not be looped.

4. Install two wire irrigation systems as per manufacturer's recommendations to provide a complete and operational system.
5. Prior to construction of irrigation system, irrigation contractor to shall prepare shop drawings showing valve groupings and wiring path diagrams for review and approval by the Architect.

1.07 Quality Assurance:

- A. Irrigation Contractor shall be a single firm with over 7-years of documented experience in all aspects of irrigation work; irrigation maintenance and capable of installing irrigation system of this scope. Wire manufacturer's representative shall provide assistance to irrigation contractor to successfully execute the proper installation of a complete and operational two wire irrigation system. System shall be installed according to the specification requirements.
- B. General: Irrigation contractor shall install all elements of the irrigation system including pipe sleeving, piping, heads, valves, wiring, valve boxes, controller, sensors, decoders, and other items necessary to operate the system.

1.08 Work Coordination:

- A. Scheduling and Existing Information:
 1. Schedule and coordinate all related activities to ensure completion of this work in the most expeditious manner.
 2. The Contractor shall assume responsibility for locating all site utilities and perform work in a manner to avoid damage. Contractor shall coordinate location of all existing utilities within the project area with "Okie" as indicated on the Drawings. Contractor is responsible for keeping the utilities clearly marked, updated and protected.
 3. Coordination Drawings: the Contractor shall provide and keep up-to-date a complete set of "Record Drawings" which shall be corrected daily to indicate changes in the location of heads, controllers, backflow preventers, valves, drains, meters, points of connection, pull boxes and wire splice boxes, pipe and wire routing and other changes that may have been made from the original shop drawings.

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1.09 Submittals:

- A. Shop Drawings: Submit complete irrigation design, indicating, mainline routing, lateral line routing, all remote control zones, a valve/zone schedule reflecting valve size and total gpm's, rotor head types (with nozzle sizes), spray head types (w/nozzle type), bubblers, gate valves, master valves, controller and backflow device locations.
 - 1. Provide documentation indicating certification of that piping meets tests specified herein.
- B. Operations and Maintenance (O&M) Data:
 - 1. Operation and maintenance data shall be bound into three (3) individually bound hardback binders and properly indexed. Three (3) electronic copies saved to disk will also be provided. O&M data shall include at least the following:
 - a. The index sheet shall indicate the Installer's name, address, and telephone number.
 - b. Manufacturer's specifications, and description, and O&M information for all system components.
 - c. Routine recommended maintenance activities of the entire system including weekly, monthly, semi-annual, seasonal and annual activities.
 - d. A schedule of the measured or calculated flow rates for each zone, and a recommended controller setting and a schedule of times and duration of operation for each zone for each month or season based on a stated recommended precipitation requirement for the type of turf or plants and the geographical location of the installation.
- C. Literature or Product Items include:
 - 1. Schedule 40 Sleeves
 - 2. Class 200 Laterals
 - 3. PVC Fittings - Schedule 40
 - 4. Flexible Vinyl Chloride Pipe
 - 5. PVC Solvent Compound
 - 6. Swing Joints
 - 7. Rotor Irrigation Heads
 - 8. Spray Irrigation Heads
 - 9. Zone Valves
 - 10. Gate Valves
 - 11. Automatic Drain Valves (Laterals)

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- 12. Wiring
- 13. Wire Connectors
- 14. Valve Boxes
- 15. Identification Tape
- 16. Wireless Rain/Freeze Sensor
- 17. Wire decoders
- 18. 6" Pop up Bubblers for Tree Plantings
- 19. Tracer Wire
- 20. Backflow Preventer
- D. Complete Record Drawings:
 - 1. Installed conditions.
 - 2. Two dimensions to each remote control valve, gate valves, etc. from two secure points.
- 1.10 Protection of Existing Conditions:
 - A. Contractor shall make every effort to protect existing items to remain.
 - B. Any existing structures, equipment, utilities, pavement, irrigation zones (all areas on campus), existing and proposed landscaping, etc., damaged by the Contractor during the course of the work, including any subsequent damage caused by equipment activity, leakage or settling of piping shall be restored at the Contractor's expense and to the Owner's satisfaction.
- 1.11 Warranties:
 - A. Provide Manufacturer's Standard Warranty each irrigation component.
 - B. One (1) year warranty period shall start upon final acceptance of the completed underground irrigation system.
 - C. Settlement - as a part of the work under this contract, if within the specified warranty period settlement occurs and adjustments to pipes, valves and sprinkler heads, planting or paving are required to meet the proper level of the permanent grade, the Contractor shall make all adjustments without additional cost to the Owner, including the complete restoration of all damaged planting, paving and other effected improvements of any kind.

Part 2 - Products

- 2.01 General:
 - A. Product Schedules: Submit a complete list of products to be incorporated in the work. List shall include catalog numbers, cuts, diagrams, and such other descriptive data as may be required by the Landscape

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Architect prior to the submission of product data. Approval of products under this provision shall not be construed as authorizing any deviations from the specification unless attention has been directed in writing to the specific deviation. No consideration will be given to partial lists submitted from time to time. Approval of products will be based on manufacturer's published ratings. Products listed that are not in accordance with these specification requirements will be rejected.

- B. Standard Products: Products furnished shall be standard products of manufacturers regularly engaged in the production of such products and shall be manufacturers' latest standard design that complies with the specification requirements.
- C. Delivery and Storage: Products delivered to site shall be inspected for damage, unloaded, and stored with the minimum of handling. Do not store products directly on the ground. Inside of pipes and fittings shall be kept free of dirt and debris.
- D. Handling: Products shall be handled in such a manner as to insure delivery to the trench in a sound undamaged condition. Pipe shall be carried to the trench, not dragged. Gasket materials and plastic materials that are not to be installed immediately shall not be stored in the direct sunlight. Valves, controller, sprinkler heads, etc., shall be removed from protective cover only upon installation.

2.02 Pipe and Fittings:

- A. Pipe and fittings: Shall be PVC plastic unless otherwise specified. Pipe and fittings shall be rated for a minimum working pressure of 150 psi and a minimum hydrostatic pressure of 200 psi.
- B. PVC Plastic:
 - 1. Pipe shall conform to ASTM D1785, Schedule 40 and Class 200, Class 12454-B, PVC 1120. Fittings for use with Class 200 pipe shall conform to the requirements of ASTM D2464 or D2467. Fittings for schedule 40 pipe shall be solvent weld socket type conforming to ASTM D2466.
 - 2. Main Lines: Schedule 40
 - 3. Lateral Lines: Class 200
 - 4. Sleeves Under Paving: Schedule 40
 - 5. Flexible vinyl chloride pipe: from laterals to heads.
- C. Fittings: Fittings for Solvent Welded Pipe: Provide Schedule 80 polyvinyl chloride, ASTM D2467 standard

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weight, solvent weld fittings for pressured and main lines.

1. Manufacturer: SLOANE, LASCO, and SPEARS.

D. Swing Joints (for use with Quick-Couplers):

1. The full circle swing joint shall be rated at 200 psi maximum working pressure at 73_F. The swing joint shall be molded of rigid poly(vinyl) chloride (PVC), Type 1; with N.P.T. threads and pipe sockets. Each rotating joint shall be sealed with a nitrile (or equivalent material) rubber O-ring, installed pre-compressed in a sealing groove free of parting lines to prevent leakage. Modified stub threads shall have special engineered diameters and clearances to allow full-circle (360_) movement and to reduce stress concentrations and joint fracture at threaded roots.

2. Lay length shall be a minimum of 24-inches and pipe has a diameter of 1-inch.

3. Inlet configurations shall be socket and outlet configuration shall be M.I.P.T.

4. Manufacturer:

a. LASCO

2.03 Valves:

A. Zone Valves: Valves shall be pressure regulating and sized as shown on Drawings. Valves shall be manufactured by HUNTER INDUSTRIES or approved equal.

B. Gate Valves:

1. Bronze gate valves smaller than 3 inches shall conform to MSS SP-80, Type 1, Class 150.

C. Manual Drain Valve: Valves shall be brass or bronze globe valves conforming to MSS SP-80.

D. Automatic Drain Valves:

1. Valves shall be spring-loaded, plunger type.

2. Manufacturer: KING TECHNOLOGY or approved equal.

D. Brass Hydrant:

1. Brass Hydrants shall be as shown on the Drawings and manufactured by Arrowhead or approved equal.

2.04 Control Wires:

Provide 14 AWG/1.6 mm diameter twisted decoder wire in sheathed casing as provided by Hunter Industries. Provide DBR or DBY wire fittings manufactured by 3M for connection of decoders to valve connections and decoders to two wire system. Wire runs shall not be looped.

2.05 Valve Boxes:

A. Boxes shall be high impact-strength plastic. Boxes shall have a lockable cover. Two keys shall be

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furnished with each system for each type of box provided. Cover to be green in lawn areas and box enclosure to be black in color. Size boxes based on consolidation of remote control valves. Acceptable manufacturers include:

1. AMETEK
2. RAIN BIRD
3. CARSON
4. NATIONAL DIVERSIFIED SALES, INC.

B. Box Sizes:

1. Zone Valves: Standard Box with extensions as required or larger.
2. Brass Hydrant, Gate Valves, and Manual Drain Valve: 10" Round.

2.06 Identification Tape / Tracer Wire (all piping):

- A. Provide underground-type plastic line markers, manufacturer's standard permanent, bright-colored continuous printed plastic tape, intended for direct burial service; not less than six (6) inches wide by four (4) mils thick. The tape shall be purple with black printing reading "CAUTION NONPOTABLE IRRIGATION WATER LINE BURIED BELOW".
- B. Contractor shall provide 14 gauge Tracer insulated wire with all mainlines, running from automatic controller along the electrical lines to each valve. All splices in the tracer line will be with waterproof connectors. Contractor will have to splice into the existing tracer line at the main water line with waterproof connectors. The tracer line will follow mainlines, all main lateral lines, all two wire paths that do not run along the mainline.
- C. Acceptable manufacturers include:
 1. PRESCO PRODUCTS, Sherman, TX, 800.527.3295 or approved equal.

2.07 Sprinkler Heads - refer to 1.05 Definitions above:

- A. Bubbler Sprinkler Heads shall be trickle type bubbler with adjustable flow and designed for permanent below ground mounting on risers in perforated, drain rock filled pipe at all tree wells, per locations on the Drawings.
- B. Spray Pop-Up Heads:
 1. Rotary Type Sprinkler Heads (if required): pop-up type, fully adjustable for flow and pressure, with letter or symbol designating degree of arc and arrow indicating center of spray pattern. Head with pattern to suit landscape layout.
 2. Spray Pop Up Shrub Heads: 4"-12" pop-up type,

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fully adjustable for flow and pressure, full, half and quarter arc as applicable. Head with pattern to suit landscape layout.

C. Acceptable manufacturers include:

1. RAINBIRD or approved equal.

2.08 Water:

A. During construction and testing of the irrigation system, the domestic water from the Project property will be obtained from the City of Oklahoma City. The Contractor shall utilize the water in a conservative manner.

2.09 Cements, Cleaner / Primers and Joint Compounds:

- A. Cement shall be #2200 series Uni-Weld or Rectorseal Cold low temperature plastic pipe cement for use on all sizes and schedules of PVC pipe and fittings. Cement shall be NSSF approved and meet ASTM D2564 requirements.
- B. Cleaner / Primer shall be equal to #8700 United Elchem Hi-Tech Cleaner / Primer.
- C. All threaded connections between metal to metal, PVC to metal and PCV to PVC shall be made using RectorSeal #2 slow dry, soft set, thread sealing compound. Thread sealing compound shall not be used on threaded connections between sprinkler and nipple or bubbler and nipple.
- D. All "O" ring gasket and pip spigot ends shall be lubricated using the lubricant recommended or supplied by the pipe manufacturer. If the pip manufacturer does not provide a lubricant for the pip, use IPS Weld-On #787 gasket lube as manufactured by Industrial Polychemical Service.

2.10 Timing Device:

- A. Provide adjustable timing device, 24 hour, and 7 or 14 day clocks to operate any time of day and skip any day in a 7 or 14 day period.
- B. Allow for manual or sem-automatic operation without disturbing preset automatic operation.

Part 3 - Execution

3.01 General:

- A. Installers shall have a minimum of five (5) years experience locally installing commercial lawn sprinkler equipment and design of lawn sprinkler systems.
- B. Installer shall be responsible for the design of entire system including layout and size of pipes,

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valves, controllers, heads, etc.

3.02 Examination:

- A. Examine installation areas. Report any conditions that differ from what is present in the Contract Drawings.
 - 1. Locate all Site Utilities: Locate all site utility systems and perform work in a manner that will also avoid damage.
- B. Starting installation constitutes acceptance of conditions or satisfactory for installation of underground irrigation system by Contractor, who shall correct damage and defects or unsatisfactory work at no additional cost.
- C. Coordinate with the Landscape Contractor on the location of trees and shrub beds in relationship to the location of sprinkler heads. Adjust plantings and / or sprinkler heads as necessary. Coordinate with Architect.

3.03 Installation:

- A. Water Source: Connect to 4" domestic water service located at the east side of the building / classroom addition and as identified on the drawings. The location indicated is schematic. It shall be the Contractor's responsibility to field verify exact location of water service. Controller to be located as directed by Owner / Architect.
 - 1. Install water hammer arrester between connection to building main and circuit valves, inside building or in valve box.
- B. Trenching:
 - 1. Sprinkler mains, laterals, and control wires shall be installed in common trenches wherever possible. Wiring shall be separated from pipe a minimum of 6-inches to avoid possibility of current leakages and short circuits. Mains shall be installed a minimum of 18-inches below finished grade. Headers and laterals shall be a minimum of 12-inches below finished grade. Soft, spongy, or otherwise unstable material that will not provide a firm foundation for the pipe shall be removed and replaced with satisfactory fill material as defined therein.
 - 2. Contractor to provide protective barricades and flagging along all open trenches.
- C. Sleeves:
 - 1. Unless noted otherwise, sleeves shall be installed under all sidewalks, drives and parking

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lots. Sleeves shall be Class 200 PVC pipe two (2) sizes larger than the pipe to be sleeved. Sleeves shall be 30-inches below grade. Wiring shall be placed in a separate sleeve from that of the pipe. Ends at sleeves shall be sealed following installation of piping or wiring.

D. Heads:

1. Heads shall be of the type and make specified. Heads shall be installed with a 4" space between the edge of the head and curbs, walls, driveways, building walls, etc. heads shall be installed in the vertical position and backfilled and compacted to near original density. Contractor shall verify turf area dimension while staking head location. Heads shall be spaced to achieve uniform coverage. Provide adequate flushing of end riser assemblies.

E. Pipe Laying:

1. Snake pipe in trench at least 1-foot per each 100-feet to allow for expansion and contraction.

F. Backfilling:

1. After piping has been tested according to paragraph TESTING, trenches shall be cleared of trash and debris. Material for backfilling shall be satisfactory fill material as approved for use on this Project, properly moistened to obtain optimum compaction and compacted by hand or machine tampers to a density equal to the undisturbed adjacent earth or compacted fill.
2. Install continuous line markers, located directly over buried main lines at 6-8 inches below finish grade during backfilling and topsoil operations.

G. Piping:

1. General: Joints connecting pipe of differing materials shall be made in accordance with the manufacturer's recommendations using approved transition fittings or procedures.
2. Flushing: When the pipelines are connected and the sprinkler risers in place, but before any heads are installed, the control valves shall be opened and the full head of water used to flush out the system.
3. Pitch: Mains shall be pitched down not less than 1/4-inch in 10-feet in the direction of drainage valves. Laterals and headers shall be pitched toward the automatic drain valves at not less than 1/8-inch in 10-feet.

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4. PVC:
 - a. Pipe shall be installed in accordance with manufacturer's instructions or as hereinafter noted.
 - b. Solvent cement joints shall be made in accordance with ASTM D2855 and the manufacturer's instructions.
 5. Lay pipe on solid subbase, uniformly sloped without humps or depressions.
 6. Wall Penetrations:
 1. Pack the opening around the pipe with non-shrink grout. At exterior face, provide backer rod and fill 3/4 deep recess with elastomeric sealant. Repair below grade waterproofing disturbed by this work and make penetration watertight.
 7. Restore plant materials disturbed by this work.
 - H. Valves:
 1. Gate valves, remote control valves, and manual drain valves shall be installed with extension valve boxes with tops set flush or not more than 1/2-inch above finished grade. Manual drain valves shall drain into sump pits made of gravel, sufficiently large in size to accommodate the volume of water released. All valves shall be installed as per Drawings and manufacturer's recommendations and with top of valve not less than 1 inch below bottom of lid valve.
 2. Automatic drain valves shall be furnished at all low points on a mainline or within a zone but no closer than 12-inches from the last head. Valves shall be installed at 45 degrees below horizontal into a gravel sump or as recommended by the manufacturer. Sump shall be of sufficient size to accommodate the water released.
 - I. Control Wiring:
 1. Wiring shall be installed a minimum of 12-inches below finished grade to the side of or below piping where possible.
 2. Looped slack at valves shall be provided for electrical wiring. Wires shall be snaked in trenches with and expansion loop at 100-foot intervals.
 3. Provide a two wire system to each solenoid valve from the controller.
- 3.04 Testing:
- A. Notification: The Contractor's Quality Control

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SECTION 02811 - UNDERGROUND SPRINKLER SYSTEM

Representative will be present at all phases of testing. The Architect shall be notified a minimum of 48 hours prior to any testing.

- B. Hydrostatic Testing: Water piping and valves shall be tested psi before piping is covered with earth. Test at a hydrostatic pressure of 100 pounds per square inch without pumping for a period of one hour with an allowable pressure drop of five (5). If hydrostatic pressure cannot be held for a minimum of three hours, make adjustments or replacements and repeat the tests until satisfactory results are achieved. Piping may be tested in sections to expedite work.

3.05 Operation and Maintenance:

- A. Installer to provide demonstration on how to operate system. Schedule training at least 7 days prior to session.
- B. Provide three (3) copies of O&M Manuals. In each copy, provide "cut sheets" of each material installed, operation manuals of controllers, and any additional materials necessary to provide an inventory of the completed installation.
- C. Record Drawings and Controller Chart:
 - 1. Maintain a complete set of irrigation Record Drawings.
 - 2. Prepare a controller chart showing:
 - a. Location of all sections, valves, lateral lines, and routes of control wires.
 - b. Identify all valves as to size, station, number, and type of irrigation.
 - c. Provide chart as a black-line print to show area of coverage for each station. Color copies are recommended.
 - d. Locate chart inside controller door. Seal chart between two pieces of laminate.
 - e. Complete chart and receive approval prior to final inspection of irrigation system.
- D. Final Testing and Acceptance:
 - 1. Final testing shall show proper operation of all components and actual measured application rates at representative and selected locations. All irrigated areas shall have 100% coverage, add extra bubblers, piping and accessories as required to achieve 100% coverage.
 - 2. Upon final acceptance of the project, the Owner will assume responsibility for maintenance of the irrigation system.
 - a. Acceptance of the underground irrigation

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SECTION 02811 - UNDERGROUND SPRINKLER SYSTEM

system is based on the Contractor furnishing a complete As-Built set of plans and an Operations and Maintenance Manual acceptable to the Architect / Owner.

E. Extra Materials:

1. Provide the following extra components:
 - a. Two (2) sprinkler heads of each type and size.
 - b. Two (2) valve keys for manual valves.
 - c. Two (2) valve box keys.
 - d. Two (2) keys for valve markers.
2. Two (2) wrenches for each type of head core and for removing and installing each type of head.

End of Section

DIVISION 2 - SITE WORK

SECTION 02900 - TREES and TURF

Part 1 - GENERAL

1.01 Summary:

- A. This section generally describes the work, equipment, and materials required to furnish and landscape the site. The Contractor shall provide all necessary labor, equipment and materials to construct and complete site work landscaping. All work shall be completed in conformance with the recommendations of plant materials suppliers.
- B. As a minimum, the Contractor must be able to provide the following materials and services:
 - 1. Supply and grade of fill material
 - 2. Environmentally approved control/elimination of weeds.
 - 3. Supply and installation of trees, shrubs, and turf grass.
- C. The Owner may choose to provide any of the above materials and services on or to the job site, in conjunction with Contractor supplied or performed requirements, at no liability cost to the Owner.

1.02 References:

- A. Drawings and general provisions of Contract, including General and Special Conditions and Division I Specification sections, apply to Work of this Section.
- B. The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.
 - 1. AMERICAN ASSOCIATION OF NURSERYMEN (AAN) AAN-01 (1990) American Standard for Nursery Stock
 - 2. COMMERCIAL ITEM DESCRIPTIONS (CID) CID A-A-1909 (Basic) Fertilizer

1.03 Submittals:

- A. Architect approval is required. Submittals having an "FIO" designation are for information only. The following shall be:
 - 1. Pesticide and Herbicide Treatment Plan, giving proposed sequence of pesticide and herbicide treatment work, before work is started. The pesticide and herbicide trade name, chemical composition, formulation, concentration, application rate of active ingredients and methods of application for all materials furnished, and the name and state license number of the state certified applicator shall be included.
 - 2. Certificates of compliance certifying that materials meet the requirements specified, prior to the delivery of materials. Reports for the following materials shall be included:

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- a. Topsoil: For pH, chemical analysis, mechanical analysis and particle size.
- b. Fertilizer: For chemical analysis and composition percent.
- c. Plant Materials: For botanical and common name, size, quantity by species, grade, nursery grown.
- d. Pesticide and Herbicide Material: For EPA registration number and registered uses.

1.04 Quality Assurance:

- A. All plant materials shall be guaranteed for one (1) year and all components of the irrigation system shall be guaranteed for a period of one (1) year, following ARCHITECT/OWNER acceptance of the project.
- B. The Contractor shall maintain the project by weeding, watering, and other tasks as required, through final acceptance of the project by the User. The Contractor should inspect the project on a monthly (minimum) basis to assure that User maintenance is being completed as necessary. The Contractor shall notify the ARCHITECT/OWNER in writing of any advised changes in maintenance activities. Contractor shall immediately replace any all defective components or dead or dying plant materials.
- C. The ARCHITECT/OWNER representative shall inspect all planting materials upon delivery to the site and reserves the right to reject any or all materials which do not conform to the intent of this specification.
- D. The source of topsoil shall be subject to inspection by the ARCHITECT/OWNER.

1.05 Delivery, Storage and Handling:

- A. Pesticide and herbicide materials shall be delivered to the site in the original unopened containers bearing legible labels indicating the Environmental Protection Agency (EPA) registration numbers and the registered uses.
- B. Plant material shall be inspected upon arrival at the job site by the ARCHITECT/OWNER for conformity to the paragraph Plants and any unacceptable plant material shall be removed from the job site.
- C. Plants not installed on the day of arrival at the site shall be stored and protected in areas designated by the CONSTRUCTION MANAGER and approved by the ARCHITECT/OWNER. Plants shall be protected from exposure to wind and shall be shaded from the sun. Covering that will allow air to circulate and prevent internal heat from building up shall be provided. All plants shall be kept in a moist condition by watering with a fine mist spray until planted.
- D. Soil amendments shall be stored in dry locations away from contaminants. Pesticide and herbicide materials shall not

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be stored with other landscape materials. Storage of materials shall be in areas designated or as approved by the ARCHITECT/OWNER.

- E. Care shall be taken to avoid injury to plants. Materials shall not be dropped from vehicles. Balled and burlapped plants shall be handled carefully to avoid cracking or breaking the earth ball and container-grown plants shall be handled by the container. Plants shall not be handled by the trunk or stems.

1.06 Warranty:

- A. Furnished plants shall be guaranteed to be in a vigorous growing condition for a period of 12 months regardless of the contract time period. A plant shall be replaced one time under this guarantee. Transplanted existing plants require no guarantee. A written calendar time period for the guarantee of plant growth shall be furnished to the ARCHITECT/OWNER.

Part 2 - Products

2.01 Materials:

A. Plants:

1. Approved plant species in the indicated sizes, to be provided and installed by the Contractor, are shown on the bid schedule. The Contractor must be able to provide a minimum five of any specified plant in the requested, listed size within 7 calendar days of the request by the Owner.
2. Substitutions will not be permitted without written request from the Contractor for approval by the ARCHITECT/OWNER.
3. Plants shall be grown under climatic conditions similar to those in the locality of the project.
4. Well shaped, well grown, vigorous, healthy plants having healthy and well branched root systems shall be provided. Plants shall be provided free from disease, harmful insects and insect eggs, sun-scald injury, disfigurement and abrasion. Plants shall be provided that are typical of the species or variety and conforming to standards as set forth in AAN-01 and as specified herein.
5. Plants shall be furnished in sizes indicated. Plants larger in size than specified may be provided at no additional cost to the Client.
6. Container grown plants are preferred when available.

2.02 Topsoil:

- A. Acceptable topsoil includes selectively excavated material

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SECTION 02900 - TREES and TURF

that is representative of soils in the vicinity that produces growth of crops, grass or other vegetation typical of the project area. Topsoil should be reasonably free from underlying subsoil, clay lumps, objectionable weeds, litter, brush, matted roots, toxic substances or any material that might be harmful to plant growth or be a hindrance to grading, planting, or maintenance operations. Topsoil shall not contain more than five percent by volume of stones, stumps or other objects larger than 3/4 inch in any dimension.

2.03 Fertilizer:

- A. The commercial grade of fertilizer shall be suitable for the locations and season approved by the Contraction Officer. The P-N-K content shall be determined on the basis of soil conditions and the plants involved.
- B. Prepackaged fertilizer delivered to the site shall be packaged in new, sealed, clean containers which bear a label fully describing the contents, the chemical analysis of each nutrient, the fertilizer grade, the net bulk, and the brand name and address of the manufacturer. Bulk fertilizer delivered to the site shall be accompanied with certification describing the contents, the chemical analysis of each nutrient, the fertilizer grade, the net bulk, and the brand name and address of the manufacturer. No fertilizer which becomes caked or otherwise damaged will be accepted.
- C. Agricultural limestone shall have a minimum calcium carbonate equivalent of 90 percent and shall be ground to such a fineness that at least 90 percent will pass a 10-mesh sieve and at least 50 percent will pass a 60-mesh sieve. Coarser materials will be acceptable provided they pass the 10-mesh sieve and the specified rates of application are increased in linear proportion to the quantities passing the 60 mesh sieve where zero passage indicates doubling the application rate.
- D. Other liming material shall have a minimum calcium carbonate equivalent of 80 percent and shall be crushed to such a fineness that at least 90 percent will pass an 8-mesh sieve and at least 80 percent will pass a 10-mesh sieve.

2.05 Organic Soil Amendments:

- A. Peat shall be a natural product peat humus derived from a bog, swampland or marsh shall conform to ASTM D 2607.
- B. Sand shall be clean and free from toxic materials and at least 95 percent by weight.
- C. Decomposed wood derivatives shall be ground bark, sawdust, or other wood waste material free of stones, sticks, and

DIVISION 2 - SITE WORK

SECTION 02900 - TREES and TURF

toxic substances harmful to plants and stabilized with nitrogen and having the following properties:

Minimum percent by

Particle size weight passing

No. 4 mesh screen 95

No. 8 mesh screen 80

Minimum percent based

Nitrogen Content on dry weight

Redwood sawdust 0.5

Fir sawdust 0.7

Fir and Pine Bark 1.0

2.07 Water:

A. Water shall not contain elements toxic to plant life.

2.08 Pesticide:

A. Pesticide shall be insecticide, herbicide, fungicide, nematocide, rodenticide, and miticide. Pesticide material shall be labeled for use and applied only as registered by EPA and approved herbicide, insecticide, fungicide, nematocide, rodenticide, miticide.

Part 3 - Execution

3.01 Examination:

- A. The Contractor shall verify the finished grades are as indicated on drawings, and the placing of topsoil and smooth grading has been completed.
- B. The location of underground utilities and facilities shall be verified. Damage to underground utilities and facilities shall be repaired at the Contractor's expense.

3.02 Site Preparation:

- A. Plant material locations and bed outlines shall be staked on the project site before any excavation is made. Plant material locations may be adjusted by the ARCHITECT/OWNER to meet field conditions.
- B. Where planting beds occur in existing turf areas, the turf shall be removed to a depth that will ensure the removal of the entire root system.
- C. Prior to placing topsoil, the ground surface shall be cleared of all brush, snags, and rubbish.
- D. Previously constructed grades shall be repaired if necessary so that areas to be topsoiled conform to the final grades upon completion of topsoil placement.
- E. The topsoil shall be uniformly distributed on the designated areas and evenly spread to a minimum thickness of 6 inches. The spreading shall be performed in such a manner that planting can proceed with little additional

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SECTION 02900 - TREES and TURF

soil preparation or tillage. The surface resulting from topsoiling shall meet the finish surface requirements as specified. Topsoil shall not be placed when the subgrade is frozen, excessively wet, extremely dry, or in a condition otherwise detrimental to proper grading or the proposed planting.

- F. All topsoiled areas covered by the project shall be uniformly smooth graded. The finished surface shall be reasonably smooth and free from irregular surface changes. The degree of finish shall be that ordinarily obtainable from either blade-grader or scraper operations. The finished surface shall be free of depressed areas where water would pond.
- G. Plant pits shall be dug to produce vertical sides and flat, uncompacted bottoms. When pits are dug with an auger and the sides of the pits become glazed, the glazed surface shall be scarified. The minimum allowable dimensions of plant pits shall not be deeper than the depth of ball.
- H. Add amendments to the soil removed from the hole at a rate of two parts excavated soil to one part nitrolized organic mulch. All rocks, calcite, and other foreign matter should be removed prior to mixing.

3.03 Planting Times and Conditions:

- A. Deciduous and Evergreen Planting Time
Install plants from **March** through **June**.

3.04 Installation:

- A. The backfill soil mixture shall be a proportioned mixture thoroughly mixed by volume of topsoil and selected soil amendments as follows:
Topsoil equal parts to mixture
Amendments 50 percent to mixture
- B. Plants shall be set plumb and held in position until sufficient soil has been firmly placed around roots or ball. Plants shall be set in relation to surrounding grade so that they are even with the depth at which they were grown in the nursery, or container.
- C. Materials shall be removed that are metal, plastic, nylon or treated burlap, prior to backfilling. Balled and burlapped stock shall be backfilled with backfill soil mixture to approximately half the depth of the ball and then tamped and watered. Biodegradable burlap and tying material shall be carefully opened and folded back. The backfill shall be completed, tamped and watered. A 4-inch high earth saucer shall be formed around individual plants.
- D. Bare-root plants shall be installed by arranging the roots in a natural position. Damaged roots shall be removed with a clean cut. Bare-root (BR) plants shall be backfilled

DIVISION 2 - SITE WORK

SECTION 02900 - TREES and TURF

with backfill soil mixture carefully worked in among the roots. The backfill and water shall be completed. A 4-inch high earth saucer shall be formed around individual plants.

3.05 Finishing:

- A. Planted areas shall be uniformly edged to provide a clear-cut division line between the planted area and the adjacent turf area and to provide a shape as indicated. The entire planted area shall be raked and smoothed while maintaining the earth saucers.
- B. The total amount of foliage shall be pruned by one-fourth to one-third on installed trees and shrubs to compensate for loss of roots and transplanting shock. The typical growth habit of individual plants shall be retained. Clean cuts shall be made flush with the parent trunk. Improper cuts, stubs, dead and broken branches shall be removed. "Headback" cuts at right angles to the line of growth shall not be permitted. Trees shall not be poled or the leader removed, nor shall the leader be pruned or "topped off." Cuts or wounds measuring a minimum 1/2 inch in diameter shall be painted with the specified tree wound dressing.
- C. Mulch shall be spread beneath each plant in the planting basin with a minimum diameter of 3' to a uniform thickness of 2 inches within 48 hours after planting. Mulch shall be kept out of the crowns of shrubs and off buildings, sidewalks and other facilities.
- D. When required for weed control, geotextile shall be placed in accordance with the manufacturer's recommendations and/or as indicated.

3.06 Care of Existing Plant Material:

- A. Existing plant material shall be maintained in a vigorous and growing condition and shall be protected from damage at all times during construction.

3.07 Application of Pesticide Material:

- A. When pesticide becomes necessary to remove a disease or pest, a state-certified applicator shall apply required pesticide in accordance with State EPA label restrictions and recommendations. Hydraulic equipment shall be provided for the liquid application of pesticides with a leak-proof tank, positive agitation methods, controlled application pressure and metering gauges. A pesticide treatment plan shall be provided to the ARCHITECT/OWNER as specified in paragraph SUBMITTALS.

3.08 Restoration and Clean Up:

- A. Planting areas, pavements and facilities that have been damaged from the planting operation shall be restored to original condition at the Contractor's expense.

DIVISION 2 - SITE WORK

SECTION 02900 - TREES and TURF

- B. Excess and waste material from the planting operation shall be removed and disposed of off the site. Adjacent paved areas shall be cleared.

End of Section

DIVISION 2 - SITE WORK

SECTION 02920 - LANDSCAPE GRADING

Part 1 -General

1.01 Summary:

- A. This section describes the labor, materials and installation requirements necessary to complete the fine grading, incidental grading, and related items as indicated or specified.

1.02 Site Conditions:

- A. Protect landscaping and other features remaining as final work.
- B. Protect any existing structures, roads, sidewalks, paving and curbs, or other features pertinent to the site in this project.

Part 2 - Products NOT USED

Part 3 - Execution

3.01 Examination:

- A. The areas to be graded will be free of waste or debris developed by other trades.
- B. Contractor shall field verify all dimensions and/or layout prior to starting work.

3.02 Preparation:

- A. Prepare site by applying Round Up, or approved equal, as per label directions to weed growth on site.
 - 1. Scarify planting areas to a minimum depth of six (6) inches and thoroughly water to settle all soil.

3.03 Grading:

- A. Contractor shall grade all planting areas, swales or other areas as noted on drawings.
 - 1. Contractor shall provide incidental grading of all areas adjacent to curbs and sidewalks. Provide a finish grade one (1") inch below curbs or sidewalks.
 - 2. Contractor shall fine grade turf areas, eliminating rough or low areas to ensure positive drainage.
 - 3. Any other areas not covered specifically above shall be graded to leave a generally smooth appearance conforming to standard landscape practices defined as: The final surface shall be raked; all objectionable materials, trash, brush, weeds, and stones larger than one inch shall be removed from the site and disposed of properly off base.
 - 4. When sod is being installed, the appropriate sub-grade shall be graded prior to the installation of such materials. See applicable specifications, in any, for additional requirements.

DIVISION 2 - SITE WORK

SECTION 02920 - LANDSCAPE GRADING

End of Section

DIVISION 2 - SITE WORK

SECTION 02970 - LANDSCAPE ESTABLISHMENT

Part 1 - General

1.01 Summary:

- A. Maintenance of plants shall include straightening plants, protecting plant areas from erosion, maintaining erosion control material, supplementing mulch, removing dead or broken tip growth by pruning, maintaining edging of beds, checking for girdling of plants and maintaining plant labels, watering, weeding, removing and replacing unhealthy plants. This work shall include all labor, materials, equipment, supplies, and services to sustain and maintain in healthy, attractive and safe condition all trees, shrubs and groundcovers.
- B. On completion of the last day of the planting operation, the plant establishment period for maintaining installed plants in a healthy growing condition shall commence and shall be in effect for the remaining contract time period not to exceed 12 months. When the planting operation extends over more than one season or there is a variance to the planting times, plant establishment periods shall be established for the work completed, as directed. Written calendar time period shall be furnished to the ARCHITECT/OWNER for the beginning of the plant establishment period. When there is more than one plant establishment period describe the boundaries of the planted area covered for each period.

1.02 Submittals:

- A. Contractor shall supply the ARCHITECT/OWNER with a proposed scheduling of the expected day and time tasks listed below will be performed. This schedule shall be approved prior to project maintenance commencement.
- B. Chemicals and methods and rates of application will be submitted to the ARCHITECT/OWNER's Representative for approval prior to use.
- C. Until the end of the establishment period, the Contractor shall provide the ARCHITECT/ OWNER's Representative a monthly detailed report of all fertilizers, insecticides, fungicides, herbicides, etc., applied during the preceding month. The report shall in-include the chemical names, trade names, date and rate of application, specific areas of application and the purpose for the application.

- 1.03 The Contractor's Landscape Establishment Supervisor, in the performance of this contract, shall be fully qualified, professional gardener with experience in the grounds

DIVISION 2 - SITE WORK

SECTION 02970 - LANDSCAPE ESTABLISHMENT

maintenance field. This experience must have provided, as a minimum, broad knowledge of all phases of landscape pest and disease control; shrub and tree pruning; fertilization; and irrigation system operation, maintenance and repair.

Part 2 - Products Not Used

Part 3 - Execution

3.01 Performance:

- A. All work shall be performed in a professional manner within the standards of the industry, using quality equipment, methods and materials.

3.02 Shrubs and Trees:

- A. Eliminate all bracing and tree supports as rapidly as plants can become self-supporting.
- B. Tree supports that must remain shall be kept in good repair and functioning at all times, and trees or shrubs fully protected. Supports or braces shall be repositioned as often as necessary to prevent damage to the tree or shrub trunk.
- C. All debris resulting from care of shrubs, trees and other plant areas shall be removed from site on day work is performed and area cleaned.
- D. Side shoots or branches may be "headed back" but are to be left on and encouraged on all thin or spindly tree trunks and on all trees still needing bracing or staking.
- E. Sucker growth from the base of trees at soil level or below shall be removed, unless otherwise directed.

3.03 Pruning:

- A. Pruning shall be provided to encourage a healthy natural growth pattern for each variety of tree or shrub.
- B. All pruning shall be towards developing the natural branching structure.
 - 1. Thinning of branch growth shall be accomplished as needed to provide for free air circulation through the remaining limbs and branches.
 - 2. All pruning shall be accomplished in accordance with accepted practices and standards.
- C. Trees and shrubs shall be kept pruned back to clear all roads, drives and walks to promote optimum efficiency and safety for all foot and vehicular traffic.
- D. Pruning shall be done to keep plants clear of doorways and windows. Trees will be trimmed, pruned or topped as directed by the ARCHITECT/OWNER. Any limbs and branches touching or brushing buildings or other structures shall also be pruned back to provide clearance and free air

DIVISION 2 - SITE WORK

SECTION 02970 - LANDSCAPE ESTABLISHMENT

circulation around the plant.

3.04 Fertilizer:

- A. Trees shall be fertilized using a balanced type fertilizer supplying all nutrients required of the tree.
 - 1. Application rate will be determined by tree type, girth, and height.
 - 2. Application will be at the base, on drip line.
- B. The Contractor is responsible for ensuring the correct soil conditions are maintained for each tree, shrub, flower, grass or plant covered under this contract in order to promote optimum growth, environment and health for the species of plant. This may require addition of soil, soil amendments, humus, mulch, gypsum, sulfur, etc., all of which will be provided by the Contractor at no additional cost to the Government.
- C. All shrubs, plants flowers, etc., not covered elsewhere in these specifications shall be fertilized once during the growing season with a balanced fertilizer which supplies all nutrients required of the type of plant.

3.05 Groundcover Maintenance:

- A. Groundcovers shall be kept weed free at all times.
- B. Groundcovers will be fertilized with a balanced fertilizer containing potassium, phosphorous and nitrogen.
 - 1. Application rate will be calculated to supply one-half pound of available nitrogen per 1,000 square feet.
 - 2. Immediately following fertilization, the groundcover shall be thoroughly watered in order to preclude fertilizer burn of the plants.
- C. Groundcovers will be trimmed, mowed, thinned and edged.
- D. Weeds, trimmings, etc., shall be removed from site on the day work is performed and the area cleaned.

3.06 Irrigation System and Watering:

- A. Make adjustments and settings of automatic controllers, if any, to establish frequency and length of watering periods.
- B. During the contract period, the Contractor will repair or replace any equipment damaged as a result of contract operations at the Contractor's expense.
- C. The sprinkler system shall not be operated when extremely windy or freezing conditions prevail.
- D. Watering cycles shall be timed to cause the least inconvenience to the building occupants and visitors. Entrances shall not be wet during the arrival and departure of occupant employees.
- E. Sprinkler heads will be cleaned, adjusted, repaired, and maintained at a proper height. Missing or broken heads and risers (not the fault of the Contractor) will be furnished by the OWNER.

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SECTION 02970 - LANDSCAPE ESTABLISHMENT

- F. The Contractor shall make sure that sprinkler heads are adjusted to cover lawn areas and shrubs and that sprinkler heads are clean so the water comes out evenly.
 - 1. The Contractor is responsible for ensuring that all lawns and trees are adequately watered at all times, whether or not sprinklers are provided.
 - 2. During prolonged periods of drought, watering guidelines established by local water district shall apply.
- 3.07 Cultivation:
 - A. Shrub and flower beds will be cultivated to maintain a loose, friable top soil for the purposes of gas exchange, water penetration and soil aeration.
- 3.08 Landscape Insect, Rodent, and Disease Control:
 - A. The Contractor shall implement a continuous program for the control and eradication of gophers, weeds, insects, nematodes, pests, lawn, tree, and plant diseases.
 - B. Chemicals used, methods of application, and reporting procedures will fully comply with all Federal, State, and Local Regulations.
 - C. The Contractor shall furnish services necessary to exterminate rodents and insects using only those pesticides, which comply with the provisions of the Federal Insecticide, Fungicide and Rodenticide Pesticide Control Act of 1972, Public Law 92516 (86 Stat. 973), and the regulations issued thereunder. These services shall be performed by a licensed pest control contractor.
 - D. A thorough inspection of the premises shall be conducted to locate any infestation and intensive treatment made to eliminate any existing problems during the first month of the contract.
 - E. Additional inspections and treatment will be made as scheduled.
 - F. Appropriate protective clothing and gear consistent with the type of pesticide being used shall be provided and worn during application.
 - G. All containers holding pesticides shall be properly labeled with the name and strength of the chemical agent therein.
 - H. Pesticides, herbicides and other toxic materials will not be stored on School property.
- 3.09 Cleaning:
 - A. Any eroded areas shall be repaired by the replacement of topsoil to bring them back to original grade as required.
 - B. All clippings, trimmings, cuttings, trash and debris resulting from work of this contract shall be promptly removed from the site.

DIVISION 2 - SITE WORK

SECTION 02970 - LANDSCAPE ESTABLISHMENT

3.10 Demonstration:

- A. Prior to the completion of the contract, or the plant establishment period, whichever occurs first, a preliminary inspection shall be held by the ARCHITECT/OWNER. Time for the inspection will be established in writing. The quantity and type of plants installed and the acceptability of the plants in accordance with the plant establishment period shall be determined.
- B. A final inspection shall be held by the ARCHITECT/OWNER to determine that deficiencies noted in the preliminary inspection have been corrected. Time for the inspection shall be established in writing. Acceptance of the planting operation is subject to the guarantee of plant growth.

3.11 120-Day Landscape Establishment Schedule:

- A. Landscape schedule shall be as follows:

ITEM NO.	WORK ITEM DESCRIPTION	TASK FREQUENCY	TASK TIME FRAME
1.	Prune Trees	Once	12th Month
2.	Prune Shrubs	Once	12th Month
3.	Mow & Edge Turf	Weekly	-----
4.	Fertilize Trees & Shrubs	Once	4th Month
5.	Fertilize Turf	Once	4th Month
6.	Irrigate Plants	3x Week	-----
7.	Irrigate Turf	3x Week	-----
8.	Weed All Areas	2x Month	-----
9.	Apply Pre-Emergent Herbicide	Once	4th Month
10.	Ensure Soil Conditions	Once	2nd Month
11.	Insect, Rodent & Disease Control	Monthly	-----
12.	Police Site	Weekly	-----

- B. The frequencies of the tasks stated above are suggested minimums only. During extremely wet or dry periods, the Contractor must adjust schedules to ensure correct and proper conditions are maintained.

End of Section

DIVISION 8 - DOORS AND WINDOWS

SECTION 08400 - ENTRANCES AND STOREFRONTS

PART 1 - General

1.01 Work Included:

- A. All materials, labor, services, and incidentals necessary for the completion of all work as shown on the Drawings and specified herein.
- B. All necessary anchors and accessories required for the complete installation of the Storefront units.
- C. Perimeter Sealant.

1.02 Related Work Specified Elsewhere:

- A. Sealants - Section 07900.
- B. Hardware and Specialties - Section 08700.
- C. Glazing - Section 08800.

1.03 Performance And Testing Requirements:

- A. Provision for Thermal Movements:
 - 1. Storefront framing systems shall be designed to provide for thermal movement of all component materials resulting from a cycling temperature range of 180 degrees F. without causing buckling, stresses on glass, failure of joint seals, undue stress on structural elements, damaging loads on fasteners, reduction of performance, or other detrimental effects. Operating windows and doors shall function normally over this temperature range.
- B. Test Procedures and Performance:
 - 1. Air Infiltration Test, Fixed Unit:
 - a. Test Fixed Unit in accordance with ASTM E 283 at static air pressure difference of 6.24 psf.
 - b. Air infiltration shall not exceed .06 cfm per square foot of fixed wall area.
 - 2. Air Infiltration Test, Doors:
 - a. Test Doors in accordance with ASTM E 283 at static air pressure difference of 1.57 psf.
 - b. Air infiltration shall not exceed .10 cfm per foot of perimeter crack length for pair of doors.
 - 3. Water Resistance Test:
 - a. Test unit in accordance with ASTM E 331.
 - b. There shall be no uncontrollable water leakage at a static test pressure of 12.00 psf.
 - 4. Uniform Load Deflection Test:
 - a. Test in accordance with ASTM E 330.
 - b. Design and size members to withstand dead loads and live loads caused by pressure and suction of wind as calculated in accordance with 2009 International Building Code.
 - c. Deflection under design load shall not exceed

DIVISION 8 - DOORS AND WINDOWS

SECTION 08400 - ENTRANCES AND STOREFRONTS

L/175 of the clear span.

5. Uniform Load Structural Test:
 - a. Test in accordance with ASTM 330 at a pressure 1.5 times the design wind pressure in 1.05B.3.b.
 - b. At conclusion of the test, there shall be no glass breakage, permanent damage to fasteners, storefront parts, or any other damage which would cause the storefront to be defective.
6. Condensation Resistance Test (CRF):
 - a. Test unit in accordance with AAMA 1503.1.
 - b. Condensation Resistance Factor (CRF) shall be not less than 70.
7. Thermal Transmittance Test (Conductive U Value):
 - a. Test in accordance with AAMA 1503.1.
 - b. Conductive thermal transmittance (U Value) shall be not more than .44 BTU/HR/degree F/sf. Unless otherwise specified, units tested for condensation resistance and thermal transmittance shall be glazed with no more than two lites of clear, uncoated, annealed glass. Sealed insulating glass shall be of standard construction.

1.04 Quality Assurance:

- A. Provide test reports from AAMA accredited laboratories certifying the performance as specified in 1.05.
- B. Test reports shall be accompanied by the storefront manufacturer's letter of certification stating that the tested storefront meets or exceeds the referenced criteria for the appropriate storefront type.

1.05 Submittals:

- A. Contractor shall submit shop drawings to the Architect for his approval. Drawings shall show scale elevations and sections. Full size sections shall be shown only when needed for clarity. Drawings shall show construction of all parts of the work, including metal and glass thickness, methods of joining, details of all field connections and anchorage, fastening and sealing methods, metal finishes and all pertinent information. Relationship to other work should be clearly indicated. No work shall be fabricated until shop drawings for that work have been finally approved for fabrication.
- B. An NFRC Component Modeling Approach (CMA) generated label certificate shall be provided by the manufacturer. The label certificate shall be project specific and will contain the thermal performance ratings of the framing combined with the specified glass, and the glass spacer

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used in the fabrication of the glass, at NFRC standard test size as defined in table 4-3 in NFRC 100-2010.

1.06 Delivery, Storage And Handling:

- A. Deliver, handle, store and protect system components in accordance with manufacturer's instructions.
- B. After erection, the Contractor shall adequately protect all exposed portions of the grid framing metal work from damage by grinding and polishing machines, plaster, lime, acid, cement, or other harmful compounds.
- C. Immediately prior to final acceptance of building, inspect all aluminum framing for weather tightness and make all necessary repairs and adjustment.

1.07 Warranties:

- A. Total Storefront System
 - 1. The responsible contractor shall assume full responsibility and warrant for one year the satisfactory performance of the total storefront installation. This includes the framing, glass (including insulated units), glazing, anchorage and setting system, sealing, flashing, etc. as it relates to air, water and structural adequacy as called for in the specifications and approved shop drawings. A manufacturer's material written warranty shall be provided for a minimum of 3 years from substantial completion for all items listed above except for glass which shall have a written warranty of 10 years.
 - 2. Any deficiencies due to such elements not meeting the specifications shall be corrected by the responsible contractor during the warranty period.

1.08 **Products of certain manufacturers are specified herein to simplify descriptions of design, construction, and/or materials only. Proprietary names are not intended to imply that products of named manufacturer are required to the exclusion of equivalent products of other manufacturers.**

PART 2 - PRODUCTS

2.01 Entrance and Storefront System:

- A. EFCO Corporation S-406 Wall Thermal Storefront System, with Series D318 DuraStyle Medium Style aluminum entrance doors.
- B. Finish - "BLACK". Coordinate with Architect.

2.02 Material:

- A. Aluminum:
 - 1. Extruded aluminum shall be 6063-T6 alloy and temper.
- B. Glass:
 - 1. Glass for Fixed Units shall be according to Glazing

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Schedule.

Glass for Exterior Entrance Doors shall be 1 inch insulated impact resistant glass units factory glazed.

Glass for Interior Door Units shall be 5/8" impact resistant glass units factory glazed.

C. Thermal Barrier:

1. The thermal barrier material shall be a poured-in-place, two-part polyurethane system. **A nonstructural thermal barrier is unacceptable.**

D. Dissimilar Metals:

1. All dissimilar metals must be properly insulated to prevent galvanic action.

E. Fasteners:

1. All exposed fasteners shall be aluminum or stainless steel.

2.03 Fabrication - Fixed Units:

A. General:

1. All aluminum frame extrusions shall have a minimum wall thickness of .080 inches.
2. All exposed work shall be carefully matched to produce continuity of line and design with all joints. System design shall be such that raw edges will not be visible at joints.

B. Frames - for 1" glazing:

1. Depth of frame shall not be less than 6.5 inches.
2. Face dimension shall not be less than 2 inches
3. Covers shall connect to frame back members with internally connected and locked celcon insulator clips.
4. Frame components shall be screw spline construction. Door frames shall be shear block construction.

C. Glazing

1. All units shall be "dry" glazed with E. P. D. M. gasket on both exterior and interior.

2.04 Fabrication - Entrance Doors:

A. General:

1. Major portions of the door sections shall have .188" wall thickness.
2. Glazing stop sections shall have .050" wall thickness.

B. Entrance Doors:

1. Door stiles shall be no less than 3-½" wide (not including glass stops).
2. Door stiles and rails shall have hairline joints at corners. Heavy concealed reinforcement brackets shall be secured with screws and shall be deep penetration and fillet welded.

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3. All doors shall have an adjusting mechanism in the top rail to provide for minor clearance adjustments.
 4. Weather-stripping shall be wool pile and shall be installed and shall be installed in one stile of pairs of doors and in jamb stiles of center pivoted doors.
 5. Door stops shall include wool pile weather-stripping.
 - C. Glazing:
 1. All units shall be dry glazed with extruded pressure fitting aluminum glazing stops, and E.P.D.M. gasket.
 - D. Door Frame:
 1. Depth of frame shall not be less than 6".
 2. Face dimension shall not be less than 2".
 3. Shear block construction shall be utilized throughout. System design shall be such that raw edges will not be visible at joints.
- 2.05 Finish:
- A. Finish - clear anodized aluminum. Coordinate with Architect.

PART 3 EXECUTION

- 3.01 Inspection:
- A. Job Conditions:
 1. All openings shall be prepared to the proper size and shall be plumb, level and in the proper location and alignment as shown on the Drawings.
- 3.02 Installation:
- A. Use only skilled tradesmen with work done in accordance with approved shop drawings and specifications.
 - B. Storefront system shall be erected plumb and true, in proper alignment and relation to established lines and grades.
 - C. Entrance doors shall be securely anchored in place to a straight, plumb and level condition, without distortion. Weather-stripping contact and hardware movement shall be checked and final adjustment made for proper operation and performance of units.
 - D. Furnish and apply sealing materials to provide a weather tight installation at all joints and intersections and at opening perimeters.
 - E. Sealing materials specified shall be used in strict accordance with the manufacturer's printed instructions and shall be applied only by mechanics specially trained of experienced in their use. All surfaces must be clean and free of foreign matter before applying sealing materials. Sealing compounds shall be tooled to fill the joint and

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provide a smooth finished surface.

3.03 Anchorage:

- A. Adequately anchor to maintain positions permanently when subjected to normal thermal movement, specified building movement, and specified wind loads.

3.04 Protection and Cleaning:

- A. The general contractor shall protect the aluminum materials and finish against damage from construction activities and harmful substances. The contractor shall remove any protective coatings as directed by the Architect and shall clean the aluminum surfaces as recommended for the type of finish applied.

End of Section

DIVISION 10 - SPECIALTIES - SOUTHMOORE HS STADIUM UPGRADES

SECTION 10500 - LOCKERS

Part 1 General

1.01 Work Included:

- A. All materials, labor, services, and incidentals necessary for the completion of this entire section of the work.

1.02 Submittals:

- A. Shop Drawings: Indicate details and dimensions of fabrication and installation including layouts and assemblies. Begin fabrication only after receiving approved shop Drawings.
- B. Manufacturer's Literature: Descriptive literature and installation instructions.

1.03 Product Delivery, Storage, and Handling:

- A. Handle and store all items with care to prevent damage and injury to finish surfaces.
- B. Protect adjacent existing surfaces from damage.

1.04 Quality Assurance:

- A. Standards:
 - 1. Federal Specification: AA-L-486.

1.05 **Products of certain manufacturers are specified herein to simplify descriptions of design, construction, and/or materials only. Proprietary names are not intended to imply that products of named manufacturer are required to the exclusion of equivalent products of other manufacturers.**

Part 2 - Products

2.01 Materials:

- A. **Lockers Type 1** - Double Tier "Quiet" Lockers - at the Kitchen Locker Room - 4 / 8 units:
 - 1. Construction: Each unit shall have individual door and frame of cold rolled steel.
 - a. Body: shall be 16 gauge steel, flanged to give double thickness of metal at back vertical corners; 18 gauge backs.
 - b. Door Frame: shall be 16 gauge steel formed channels with vertical members having an additional flange to form continuous door strike. Corners shall be lapped and welded into a rigid assembly; in addition, bottom cross members shall have tang at each end that fits through slot in rear slot of upright frame member to prevent twisting out of alignment. Top and bottom cross members shall provide support for front edge of locker top and locker bottom.

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SECTION 10500 - LOCKERS

- c. Door: shall be 14 gauge steel, one piece, with both vertical edges formed into a channel shape and top and bottom flanged at 90 degree angle. Welded construction with reinforced top and bottom with intermediate stiffener ribs, grind and finish all edges smooth.
- d. Coat Hooks: provide three single prong coat hooks made of cadmium-plated or zinc-plated steel.
- e. Ventilation: door perimeter and verti-vents.
- 2. Quantity: Refer to Drawings.
- 3. Size: 15"w x 18"d x 36"h per tier for a total locker height of 72".
- 4. Base: None - mount to top of continuous concrete masonry / wood framed base.
- 5. Hardware:
 - a. Hinge to be full loop, 2" 5-knuckle hinges nested in door slot, welded to frame and double-riveted to door.
 - b. Handle to be stainless steel recessed handle with plastic-protected lifting trigger. Must be able to accept padlock and meet ADA requirements for accessibility.
 - c. Latching to be quiet, multi-point latching on heavy gauge frame hooks with rubber silencers. Concealed quiet lock bar locked in place and isolated from metal to metal contact by polyethylene glides.
- 6. Provide aluminum number plates - coordinate numbering system with Architect.
- 7. Provide end finishing panels to closeout to adjacent / perpendicular walls and at corners.
- 8. Color: refer to Color Schedule.
- B. General: Locker manufacturer shall provide all appropriate matching trim and closure pieces for a complete and finished installation.
- B. Acceptable Manufacturer: Republic Storage Systems.

Part 3 - Execution

3.01 Installation:

- A. Field verify prepared bases are in correct position and configuration.
- B. Install equipment as located on the Drawings and comply with manufacturer's written instructions for equipment

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provided.

Secure lockers with anchor devices with a minimum pull-out force of 100 lbs.

Provide any additional items necessary for support or to complete installation.

- C. Clean work after installation including locker interior and exterior surfaces.

End of Section