# STRICKLAND ARTS AND CULTURAL CENTER

# ARTS AND CULTURAL AUTHORITY OF CLAXTON & EVANS COUNTY CLAXTON, GEORGIA



JAMES W. BUCKLEY AND ASSOCIATES INC. -- ARCHITECTS

114 North Green Street

Swainsboro, Georgia 30401

Phone: (478) 237-6467

Fax: (478) 237-3197

Email: mail@jwbuckley.com

#### CIVIL ENGINEER:

James W. Buckley and Associates Inc. 114 North Green Street Swainsboro, Georgia 30401 Phone: (478) 237-6467 Fax: (478) 237-3197 Email: civil@jwbuckley.com

#### STRUCTURAL ENGINEER:

Saussy Engineering
400 E Johnny Mercer Boulevard
Savannah, Georgia 31410
Phone: (912) 898-8255
Fax: (912) 898-1882
Email: whsdrawings@saussyengineering.com

#### MECHANICAL ENGINEER:

Delta Engineering Group LLC 3604C Wheeler Road Augusta, Georgia 30909 Phone: (706) 364-1770 Fax: -Email: caprice@deltaeng.net

#### ELECTRICAL ENGINEER:

Electrical Design Consultants, Inc. 1201 Broad Street, Suite 1A Augusta, Georgia 30901 Phone: (706) 724-3551 Fax: (706) 724-8507 Email: drawings@edcaugusta.com

CONSTRUCTION
BUILDING PHASE

SIRICKLAIND ARTS AIND CULTURAL CENTER

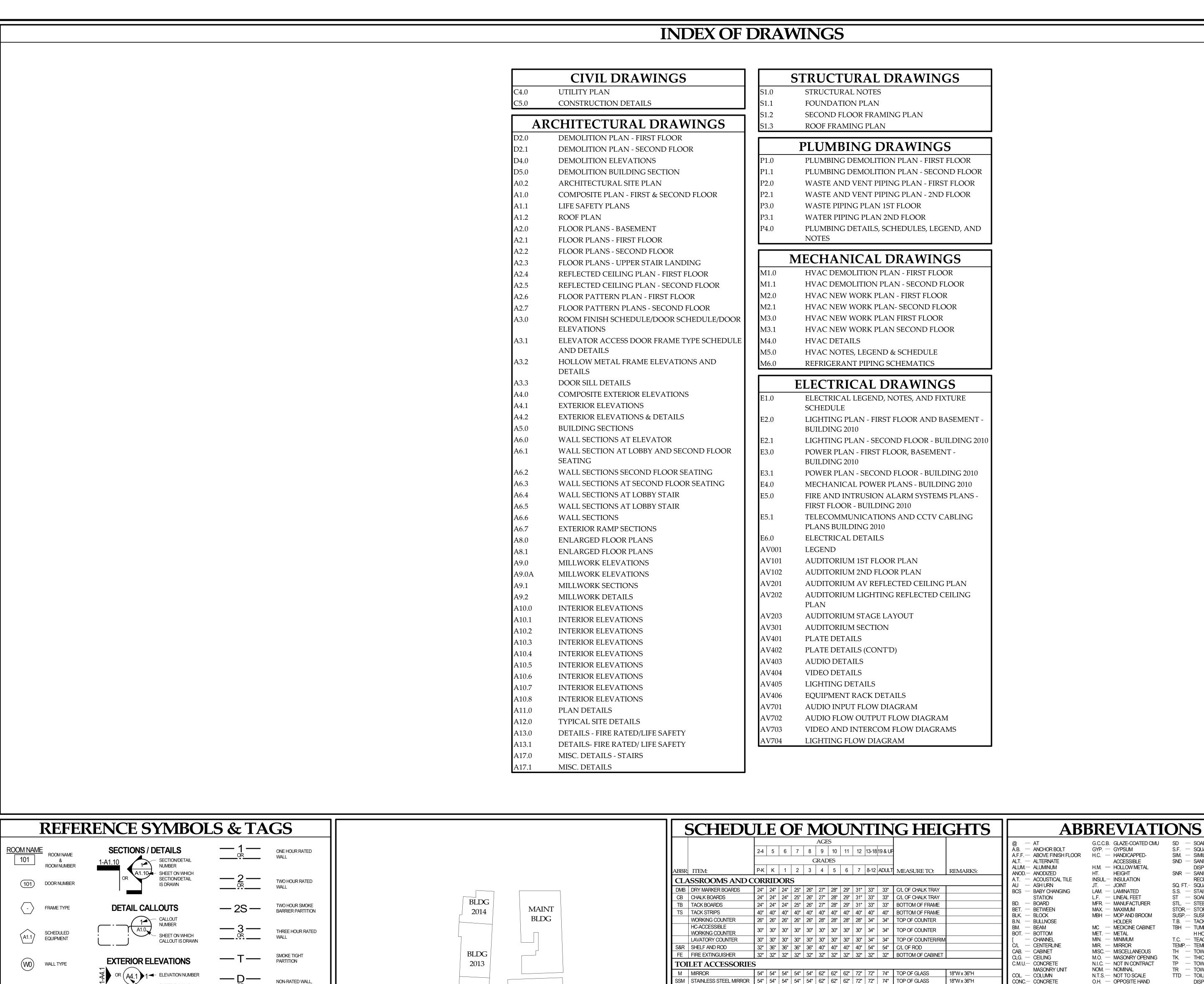
ND CULTURAL AUTHORITY OF CLAXTON & EVANS COUNTY CLAXTON, GEC

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CRAIG PORT OF THE PROPERTY OF

JRW
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Checker
CHECKED BY
Approver
APPROVED BY
4/13/2023
PROJECT DATE

SET NUMBER:



2012

BLDG 2011

NORTH

BLDG 2010×

**KEY PLAN** 

SHEET ON WHICH

**INTERIOR ELEVATIONS** 

(SECTION/ DETAIL)

COMPACTED EARTH

NOTE: SOME MATERIALS SHOWN HERE MAY NOT OCCUR IN THIS PROJECT

NOTE: ALL ELEVATIONS ARE FROM PRIMARY BUILDING FIN. OR A9.4 ELEVATION NUMBER

ELEVATION IS DRAWN

- SHEET ON WHICH

MATERIALS LEGEND

ELEVATION IS DRAWN

KEYED NOTE

CONCRETE

CONCRETE, PRE-CAST

(WHEN INDICATED

GRAPHICALLY)

CONCRETE,

CONCRETE

(ELEVATION)

LIGHT-WEIGHT

**ELEVATION DATUM** 

NOTE: ALL ELEVATIONS ARE

FLOOR UNLESS OTHERWISE

EXTEND TO DECK &

INSULATION,

INSULATION,

INSULATION, BLOWN-IN

ALUMINUM

ORNAMENTAL

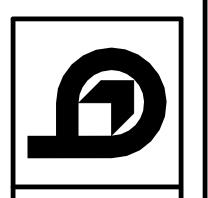
 $\bullet$   $\bullet$   $\bullet$ 

FINISH WOOD

WOOD BLOCKING

SOLID SURFACING

CEMENTITIOUS WOOD FIBER



CRAIG NOT VALID UNLESS SIGNED **ISSUED FOR:** 

TEMPORARY DITCHING, SUMPING, OR OTHER APPROVED METHODS. RETAIN AND MAINTAIN TEMPORARY METHODS UNTIL PERMANENY DRAINAGE SYSTEMS (STORM

CORNERS AT WALLS AND PARTITIONS INSIDE BUILDING INCLUDING WINDOW AND DOOR JAMB CONDITIONS. WHERE CONCRETE BLOCK IS EXPOSED AT INTERIOR WALLS, PROVIDE SHALLOW CONCAVE CONCRETE BLOCK JOINTS IN KITCHENS AND ALL TOILET ROOMS. CONTRACTOR SHALL PROVIDE MASONRY WALLS TO MEET ALL REQUIREMENTS OF FINISH INSTALLER. MANUFACTURER SHALL ENSURE THAT ALL MATERIAL AND JOINT REINFORCING MAY BE OMITTED IN DETAILING FOR CLARITY: INSTALL IN

INSTALLATION WARRANTIES REMAIN EFFECTIVE. MASONRY JOINTS AT DESIGNATED INTERVALS WHETHER SHOWN OR NOT. IN ROOMS WITH EXPOSED STRUCTURAL CEILING, EXTEND WALLS TO ROOF OR FLOOR DECK ABOVE.

OVERLAP ALL FLASHING JOINTS 4" MINIMUM AND SEAL WATERTIGHT. ARCHITECT IS TO OBSERVE ALL FLASHING INSTALLATION PRIOR TO FLASHING BEING COVERED UP BY NEW CONSTRUCTION.

**GENERAL NOTES** 

THE FOLLOWING NOTES SUPPLEMENT AND ADD TO THE DRAWINGS AND SPECIFICATIONS. IF THERE IS

ANY CONFLICT, AMBIGUITY, ETC., CREATED BY ANY NOTE, THE CONTRACTOR SHALL COMPLY WITH THE

THE GENERAL CONTRACTOR, SUBCONTRACTORS AND ALL EMPLOYEES ON THIS

REQUEST IN WRITING FOR WRITTEN CLARIFICATION BY THE ARCHITECT. ALL

DIMENSIONS ARE GIVEN TO FACE OF CMU, FACE OF BRICK, OR FACE OF STUD

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADE PITCHES AND OTHER

CONDITIONS BY TAKING MEASUREMENTS PRIOR TO ORDERING MATERIALS OR

INSTRUCTIONS. THE CONTRACTOR IS RESPONSIBLE FOR MEASUREMENTS. NO

WHERE A DETAIL OR SECTION IS SHOWN FOR ONE CONDITION, IT APPLIES TO ALL

COORDINATING ROUTING OF THE CONTRACTOR'S WORK WITH OTHER TRADES IS

PRIOR TO CLEARING AND GRUBBING, PROVIDE SURFACE SITE DEWATERING BY

BULL NOSE CONCRETE BLOCK SHALL BE USED AT ALL EXPOSED (OUTSIDE)

ESSENTIAL, AND ANY EXPENSE REQUIRED FOR REMOVAL OR RELOCATION SHALL BE

CONSIDERATION WILL BE GIVEN TO ANY CLAIM BASED ON DIFFERENCES BETWEEN

DOING WORK. REFER DISCREPANCIES TO THE ARCHITECT FOR ADDITIONAL

DRAWINGS OR SPECIFICATIONS AND ACTUAL MEASUREMENTS.

PROJECT ARE NOT ALLOWED TO SCALE DRAWINGS TO DETERMINE DISTANCES NOT

DIMENSIONED. IF FURTHER DIMENSIONING IS REQUIRED, THE CONTRACTOR SHALL

MORE STRINGENT REQUIREMENT.

CONCRETE BLOCK:

UNLESS NOTED OTHERWISE.

LIKE OR SIMILAR CONDITIONS.

BORNE BY THE CONTRACTOR.

DRAINS, SWALES, ETC.) ARE INSTALLED.

G.C.C.B. GLAZE-COATED CMU

ACCESSIBLE

GYP. — GYPSUM

H.C. — HANDICAPPED-

H.M. — HOLLOW METAL

HEIGHT

INSUL.— INSULATION

LAM. — LAMINATED

L.F. — LINEAL FEET

Max. — Maximum

MET. — METAL

MIN. — MINIMUM

MIR. — MIRROR

NOM. — NOMINAL

OPP. — OPPOSITE

PL. — PLATE

O.C. — ON CENTER

P.E.J. — PRE-FORMED

PLY. — PLYWOOD

PROJ.— PROJECTION

PTD — PAPER TOWEL

Q.T. — QUARRY TILE

R.D. — ROOF DRAIN

RECEP.- RECEPTACLE

REINF.— REINFORCED

REQ'D.— REQUIRED

RH — ROBE HOOK

S.C. — STORAGE CABINET

SCD — SEAT COVER DISPENSER

SCH — SHOWER CURTAIN AND

SCR — SHOWER CURTAIN ROD

RM - ROOM

RAD. — RADIUS

DISPENSER PTDR — PAPER TOWER

DISPENSER/RECEPTACLE

P.L. — PROPERTY LINE

CONT.— CONTINUOUS

C.R. — CLASSROOM

DIA. — DIAMETER

DIM. — DIMENSION

ELEV.— ELEVATION

EXP. — EXPANSION

DET. — DETAIL

ea. — each

EQ. — EQUAL

AGES 13&UP (1-1/2" DIA.)

DISP. — DISPENSER

CERAMIC TILE

D.B.N.— DOUBLE BULLNOSE

D.F. — DRINKING FOUNTAIN

E.J. — EXPANSION JOINT

EXTERIOR

FIRE EXTINGUISHER

FINISH FLOOR

F.A.S.— FINISH ALL SIDES

F.D. — FLOOR DRAIN

FINISH

— FLOOR

F.R. — FIRE RATED

— FOOT

GALV.— GALVANIZED

GB — GRAB BAR

GA. — GAUGE

FTD — FACIAL TISSUE

DISPENSER

EAD — ELECTRIC HAIR DRYER P.S. — PURSE SHELF

FSS — FOLDING SHOWER SEAT R/W — RIGHT-OF-WAY

EHD — ELECTRIC HAND DRYER P.T. — PRESSURE-TREATED

HCM | HC-ACCESSIBLE MIRROR | 34" | 34" | 34" | 34" | 34" | 34" | 34" | 34" | 34" | 40" | 40" | BOTTOM OF GLASS

MH | BROOM AND MOP HOLDER | 48" | 48" | 48" | 48" | 48" | 48" | 48" | 48" | 48" | 48" | 48" | 48" | 48" | 48" | 48" | 6/L OF HOLDER

PTR PAPER TOWEL RECEPTACLE 24" | 28" | 28" | 28" | 28" | 28" | 28" | 28" | 28" | 28" | 28" | 28" | 28" | 28"

GB | HC-ACCESSIBLE GRAB BARS | 19" | 22" | 22" | 22" | 22" | 24" | 24" | 24" | 24" | 24" | 24" | 24" | 24"

WATER | ELONGATED |

15" 12" MIN.

15" 14" MIN.

18" 14" MIN.

AGES GRADES CLOSET RIM

SND | SANITARY NAPKIN DISPENSE

SOAP DISPENSER

**TOILET FIXTURES** 

URINAL RIM

LAVATORY

13-18 8-12

**MISCELLANEOUS** 

TD | TOILET TISSUE DISPENSER | 14" | 17" | 17" | 17" | 17" | 17" | 17" | 17" | 24" | 24" | C/L OF DISPENSER

PAPER TOWEL DISPENSER | 36" | 40" | 40" | 40" | 40" | 40" | 40" | 40" | 40" | 40" | 40" | 40" | C/L DISPENSER SLO

40" | 40" | 40" | 40" | 40" | 40" | 40" | 40" | 40" | 40" | 40" | 40"

28" | 36" | 36" | 36" | 36" | 40" | 40" | 40" | 40" | 40" | 40" | 40" | C/L OF CONTROLS

1"-12"|12"-15"|12"-15"|12"-15"|12"-15"|15"-17"|15"-17"|15"-17"|15"-17"| 17" | 17" | 17" | TOP OF SEAT

"-12"|12"-15"|12"-15"|12"-15"|12"-15"|15"-17"|15"-17"|15"-17"|15"-17"| 17" | 17" | TOP OF RIM

HANDICAPPED-ACCESSIBLE FIXTURE REQUIREMENTS

(EDF and WC) F.F. TO SPOUT OUTLET

30" MAX.

30" MAX.

36" MAX.

30" | 30" | 30" | 30" | 30" | 30" | 30" | 30" | 30" | 30" | 34" | 34" | TOP OF COUNTER/RIM

20" 22" 22" 22" 22" 24" 24" 24" 24" 34" 34" TOP OF HANDRAIL AGES 2-12 (1-1/4" DIA.)
AGES 13&UP (1-1/2" DIA.)

DRINKING FOUNTAIN AND WATER COOLER

C/L DISPENSER SLO

C/L OF GRAB BAR

C/L SOAP DISCHARGE

AGES 2-12 (1-1/4" DIA.)

KNEE SPACE CLEARANCE

24" HIGH & 8" DEEP

24" HIGH & 8" DEEP

24" HIGH & 8" DEEP

27" HIGH & 8" DEEP

N.T.S.— NOT TO SCALE

O.H. — OPPOSITE HAND

O.D. — OUTSIDE DIAMETER

P.C.B.— PAINTED CONCRETE

EXPANSION JOINT

MFR. — MANUFACTURER

MBH — MOP AND BROOM

HOI DER

MC — MEDICINE CABINET

MISC. — MISCELLANEOUS

N.I.C. — NOT IN CONTRACT

M.O. — MASONRY OPENING

JT. — JOINT

SD — SOAP DISPENSER

SIMILAR

SND — SANITARY NAPKIN

SQ. FT.- SQUARE FOOT

- STEEL

STOR.— STORAGE

SUSP.— SUSPENDED

T.B. — TACK BOARD

S.S. — STAINLESS STEEL

- SOAP TRAY

TBH — TUMBLER/TOOTHBRUS

TEACHER'S CABINET

H HOI DER

TEMPERED

TOWEL PIN

DISPENSER

- UTILITY SHELF UNIT

TH — TOWEL HOLDER

TR — TOWEL ROD

TTD — TOILET TISSUE

U.N. — UNLESS NOTED

WIND.— WINDOW

W.P. — WORK POINT

USU -

SQUARE FOOT

DISPENSER

SANITARY NAPKIN

RECEPTACI E



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Approver

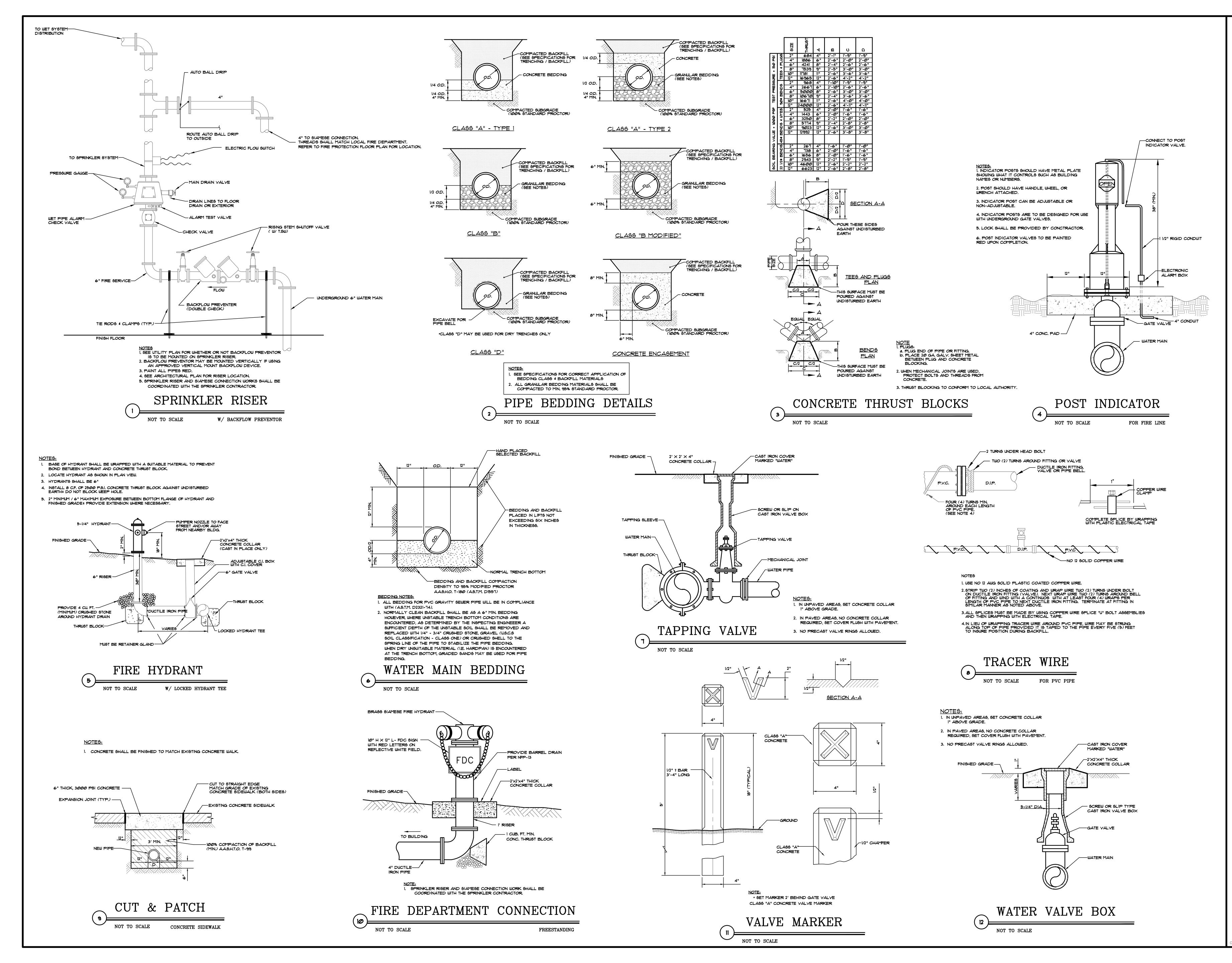
APPROVED BY

4/13/2023

PROJECT DATE

21-036

#### GENERAL NOTES 1. THIS PROJECT IS THE RENOVATION OF A BUILDING FOR AN ARTS CENTER. THIS PROPERTY IS LOCATED AT 1601TH G.M.D., CITY OF CLAXTON, EVANS COUNTY, GEORGIA. STREET ADDRESS: 4 NORTH COLLEGE ST, CLAXTON, GA 3. THE ZONING FOR THIS PROPERTY IS: N/A 4. THIS PARCEL CONTAINS A TOTAL OF $\underline{4}$ ACRES. DISTURBED AREA IS $\underline{\textbf{0.15}}$ ACRES. CONTRACTOR TO VERIFY BENCHMARKS, INVERTS, AND FINISH FLOORS PRIOR TO SETTING FINISH GRADES. 6. DEMOLITION TO INCLUDE ALL UTILITIES, STRUCTURES, AND VEGETATION INSIDE NOTED AREA. ENGINEER IT IS THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH AND MAINTAIN TRAFFIC CONTROL DEVICES DURING CONSTRUCTION. 8. ANY BENCHMARKS TO BE DEMOLISHED WILL BE RELOCATED TO A PERMANENT STRUCTURE OUTSIDE CONSTRUCTION AREA PRIOR TO START OF CONSTRUCTION BY GA R.L.S. SPRINKLER SAW GUT, REMOVE \$ 9. OWNER / DEVELOPER: REPLACE SIDEWALK EVANS COUNTY BOARD OF EDUCATION AS NEEDED FOR WILLITY 613 WEST MAIN STREET CLAXTON, GA 30417 INSTALLATION PHONE: (912) 739-3544 10. THERE ARE NO KNOWN STATE WATERS PRESENT ON THIS SITE WHICH REQUIRE A (25) FOOT MINIMUM UNDISTURBED BUFFER. 11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH AND MAINTAIN LIMITS OF CONSTRUCTION THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR THE DISTURBANCE OF OR DAMAGE TO AREAS OUTSIDE THESE LIMITS. THERE ARE NO KNOWN WETLANDS LOCATED ON THIS SITE. ALL WETLANDS SHOWN ON THESE PLANS ARE UNDER THE JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS DISTURBANCE OF THESE AREAS WITHOUT PROPER AUTHORIZATION IS SUBJECT TO PENALTY BY LAW. THE APPLICANT WILL FIRST OBTAIN A WETLAND ALTERATION SECTION 404 PERMIT FROM THE CORPS OF ENGINEERS PRIOR TO DISTURBING ANY JURISDICTIONAL WETLANDS. DISPOSAL OF DEBRIS: NO MATERIALS ARE TO BE BURIED ON-SITE. CLEARING AND GRUBBING DEBRIS MAY BE BURNED WITH THE APPROPRIATE PERMIT FROM THE LOCAL AUTHORITY. CONSTRUCTION MATERIALS MUST BE TAKEN TO A STATE APPROVED LAND FILL. 14. THIS PARCEL IS NOT IN A FLOOD HAZARD AREA ACCORDING TO F.I.R.M. COMMUNITY STRICKLAND ARTS CENTER NUMBER 13109C0120C, DATED JULY 22, 2010. #\$AW #UT, REMÖVE 4 WATER SYSTEM NOTES CONTRACTOR TO INSTALL ALL BENDS AND TEES NECESSARY FOR WATER LINE. ALL WATER AS NEEDED FOR UTILITY LINES WILL BE BURIED WITH A TRACER WIRE WHICH IS TO BE BROUGHT UP AT ALL GATE VALVE LOCATIONS. INSTALLATION 2. COORDINATE ALL WATER CONNECTIONS WITH LOCAL WATER DEPARTMENT. 3. TWO CUBIC FEET OF 57 STONE IS REQUIRED AT WET TAPS, TEES, BENDS, AND YALVE 6×6×6 TEE-LOCATIONS. ALL FIRE HYDRANTS MUST HAVE FOUR CUBIC FEET. WITH VALVE BOX 4. DUCTILE IRON SEWER PIPE IS REQUIRED FOR WATER LINES: A. LINES HAVE LESS THAN THREE (3) FEET OF COVER. B. WHEN LINES CROSS UNDER SANITARY OR STORM LINE. C. WHEN LINE CROSSES SANITARY OR STORM SEWER LINE WITH LESS THAN TWO (2) HYDRANT FEET OF CLEARANCE BETWEEN THE TWO. D. WHEN LINE PASSES LATERALLY WITHIN ONE (1) FOOT OF SANITARY STRUCTURE. E. WHEN LINE IS COVERED BY (16) FEET OF FILL OR MORE. F. IN WET OR UNSTABLE SOIL CONDITIONS WHERE BEDDING IS DIFFICULT. 5. CONCRETE VALVE MARKERS SHALL BE INSTALLED WITHIN (2) FEET OF ALL GATE VALVE LOCATIONS. 6. WATER MAIN DEPTHS FOR 2"-8" LINES SHALL BE A MINIMUM OF (3) FEET FROM TOP OF THE PIPE TO FINISH GRADE. WATER MAIN DEPTHS FOR 10"-12" LINES SHALL BE NO LESS THAN (4') FROM TOP OF THE PIPE TO FINISH GRADE UNLESS OTHERWISE SPECIFIED. 7. ALL MECHANICAL JOINT GLANDS SHALL BE MEGA LUG TYPE. 8. ALL GATE VALVE BOXES SHALL BE ADJUSTABLE TYPE. SAW CUT, REMOVE \$ 9. MINIMUM (24) HOUR NOTICE SHALL BE GIVEN PRIOR TO FLUSHING, CHLORINATING, AND REPLACE SIDEWALK PRESSURE TESTING OF WATER LINES. AS NEEDED FOR UTILITY 10. GATE VALVES AND TEES SHALL NOT BE INSTALLED UNDER PAVEMENT OR CURBING INSTALLATION UNLESS SPECIFICALLY NOTED ON DRAWINGS. 11. EXISTING WATER PRESSURE AND FLOW DATA. FH: INTERSECTION OF COLLEGE AND MAIN ST. STATIC 65 PSI POLICE 50 PSI RESIDUAL: 2137 GPM @ 20 PSI STATION FLOW: DRIVEWAY FIRE SPRINKLER NOTES 1. SPRINKLER SYSTEM SHALL CONFORM TO NFPA 13(LE). 2. SIAMESE HYDRANT (FDC) SHALL BE BRASS. PIPING FROM SIAMESE HYDRANT TO SPRINKLER RISER SHALL BE (4) INCH DUCTILE IRON. 3. 51 STONE TO BE INSTALLED AT BASE OF SIAMESE HYDRANT. 4. POST INDICATOR VALVE SHALL BE INSTALLED MINIMUM OF FORTY (40) FEET FROM BLDG. 5. SIAMESE HYDRANT SHALL BE PLACED A MINIMUM OF FIFTY (50) FEET AND A MAXIMUM OF ONE HUNDRED (100) FEET FROM NEAREST FIRE HYDRANT. 6. STANDPIPES SHALL BE IN ACCORDANCE WITH NFPA 101: 12.4.5.12. NEW PARKING LOT MISC. NOTES: \*\*NOTIFY CITY OF CLAXTON INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION. (912) 618 8006-HAROLD ROGERS GSWCC LEVEL II SAW CUT, REMOVE CERT.# 0000055308 FEPLACE SIDEWALK AS NEEDED FOR UTILITY INSTALLATION POLE WITH GUIDE WIRE EXISTING FIRE HYDRANT BID SET 04/13/2023 g TOP SW ELBOW PROJECT NO. **21-036** UTILITY PLAN CB 187.09 -6" YALYE WITH YALYE BOX INY SW -TAP EXISTING 6" LINE WITH ° CB 183.87 GRAPHIC SCALE 6" TAPPING SLEEVE \$ WEST MAIN STREET C4.0 6"x6"x6" TEE (US 28Ø) ( IN FEET ) 1 inch = 10 ft.



ARTS AND CULTURAL AUTHORITY OF CLAXTON & EVANS COUNTY CLAXTON, GEORGIA

AMES W. BUCKLEY & ASSOCIATES INC. - ARCHITECTS, CIVIL ENGINEERS

visions of the contact documents. The contractor, subcontractor, vendors, and suppliers solely re tinformation utilized in bidding, development of shop drawings and construction of facility are idense.

CONSTRUCTION DETAILS

blue or black line prints, addenda, post-bid addenda, and change orc

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GSWCC LEVEL II

CERT.# 0000055308

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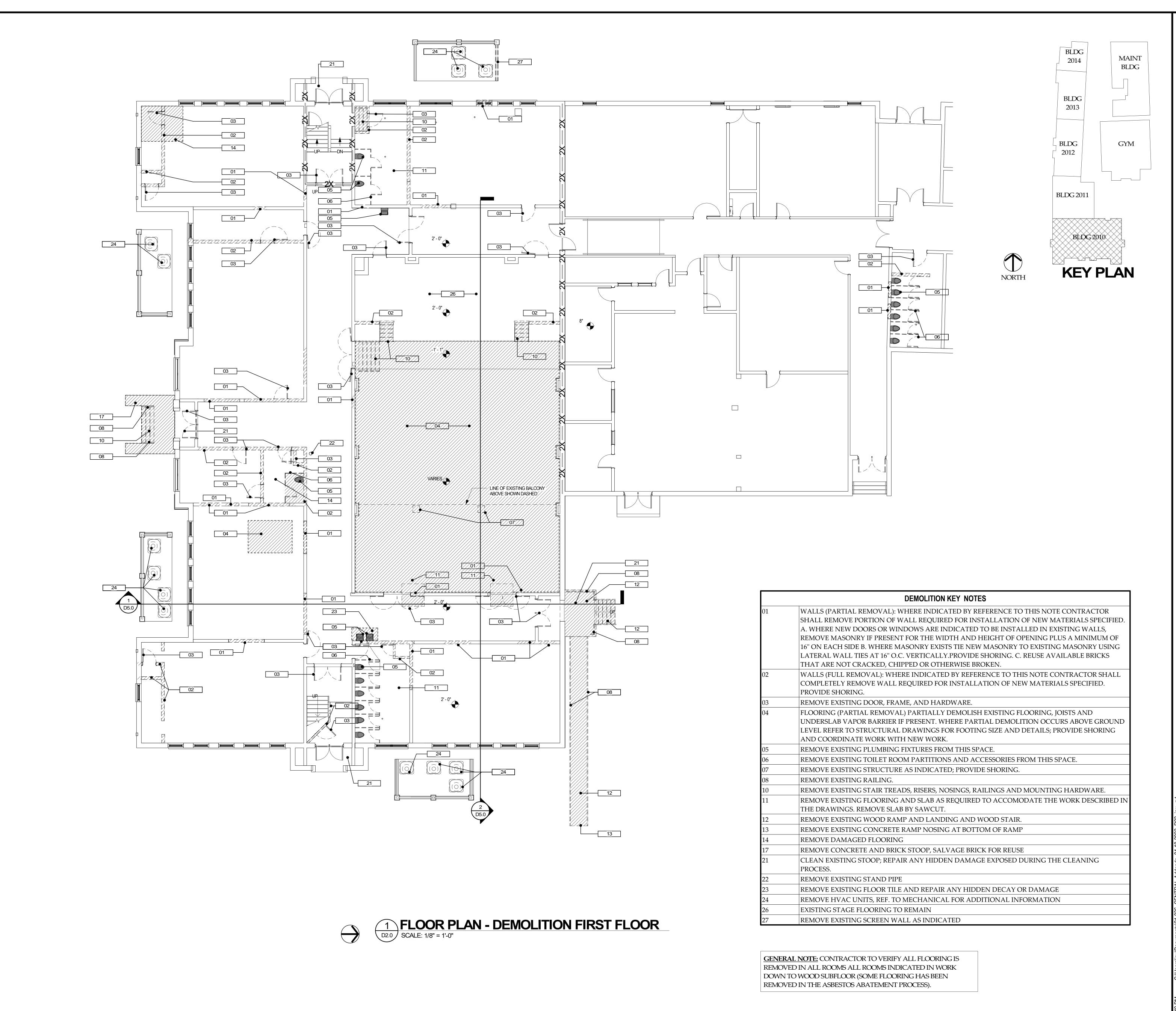
APPROVED BY

DATE
04/13/2023
PROJECT NO.
21-036

SHEET NUMBER

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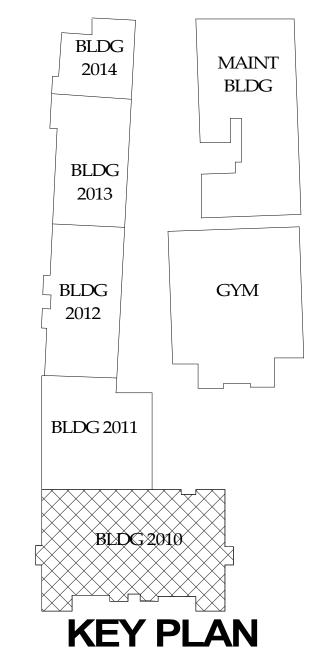
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21-036 PROJECT NUMBER SHEET

**NUMBER:** 



1 FLOOR PLAN - DEMOLITION SECOND FLOOR
D2.1 SCALE: 1/8" = 1'-0"





ON, GEORGIA ECTS

SIRICKLAIND ARTS AIND CULTURAL CENTER
DICULTURAL AUTHORITY OF CLAXTON & EVANS COUNTY CLAXTON, GE

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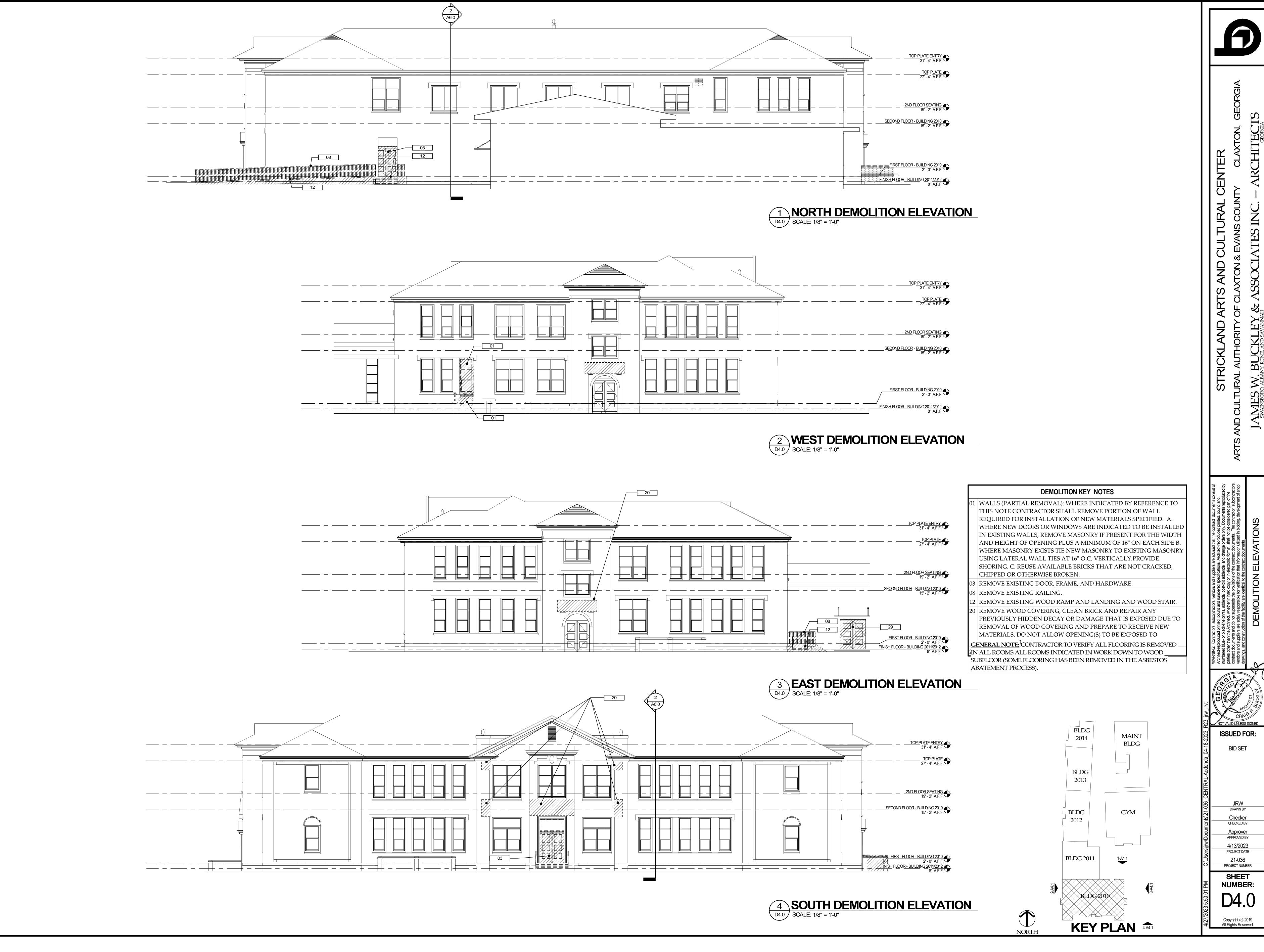
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Approver
APPROVED BY

4/13/2023
PROJECT DATE

SHEET NUMBER: D2.1

PROJECT NUMBER



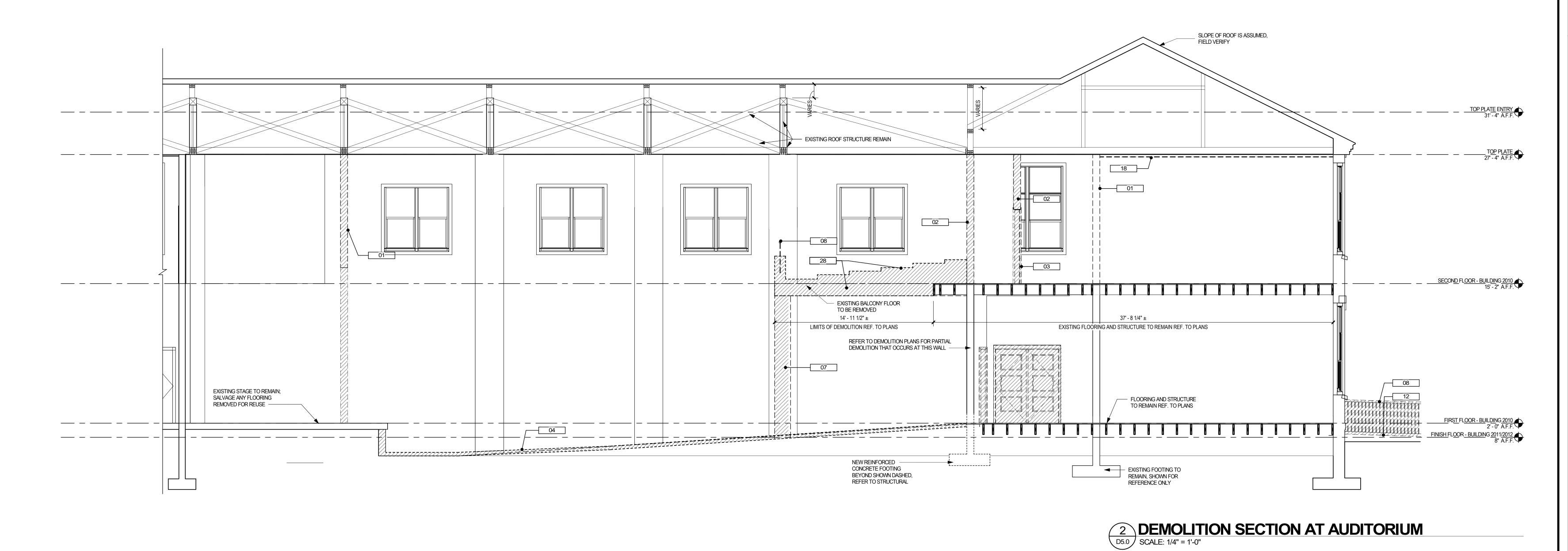
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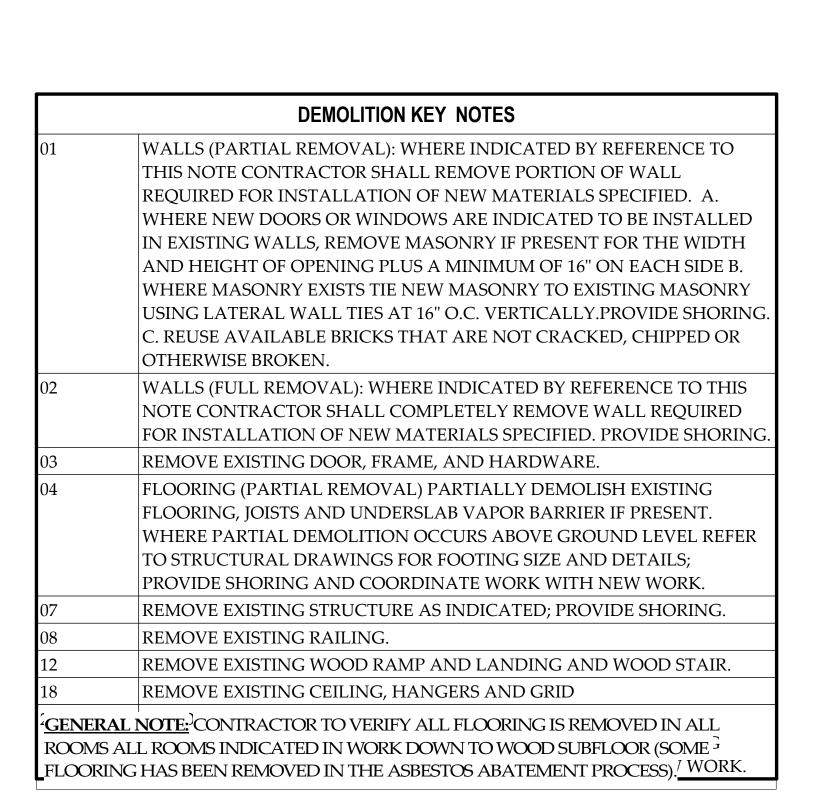
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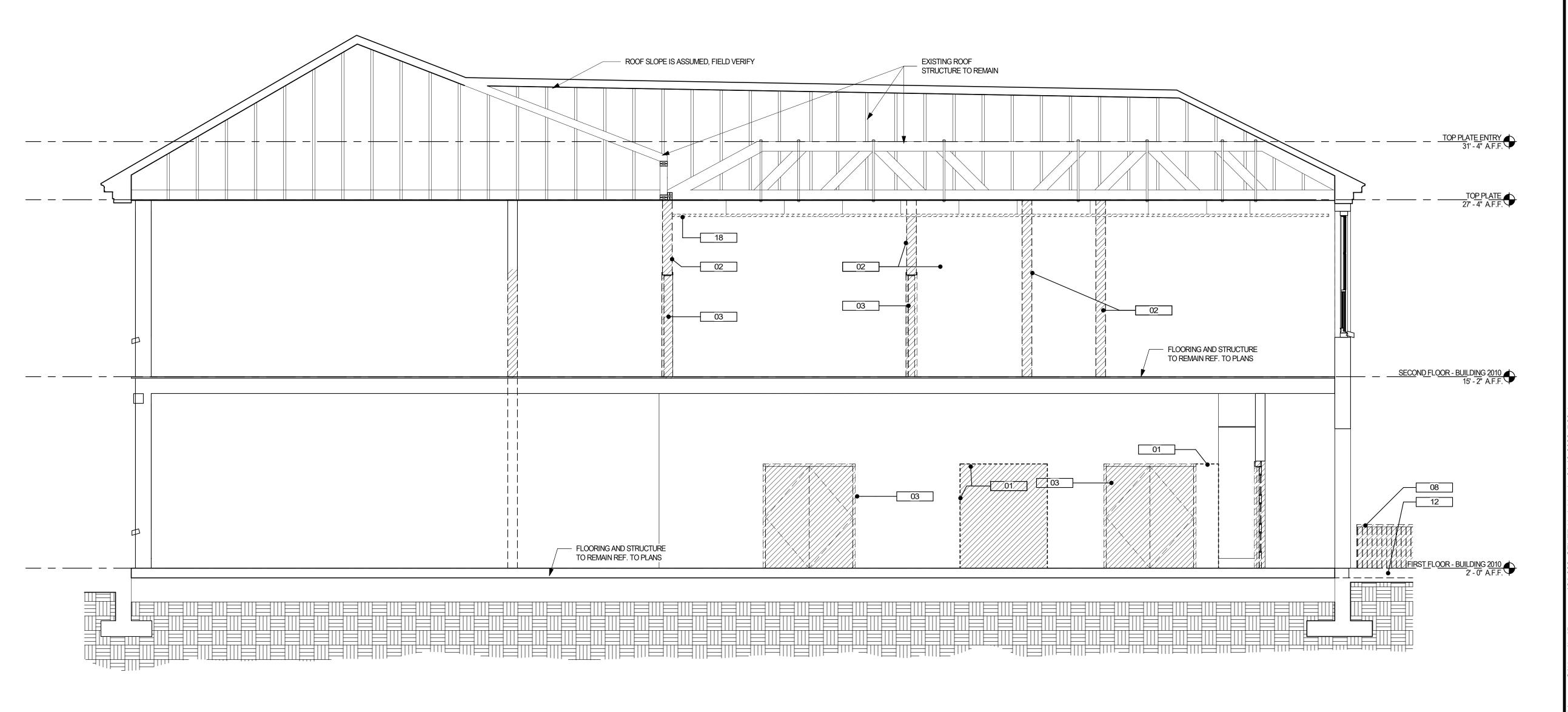
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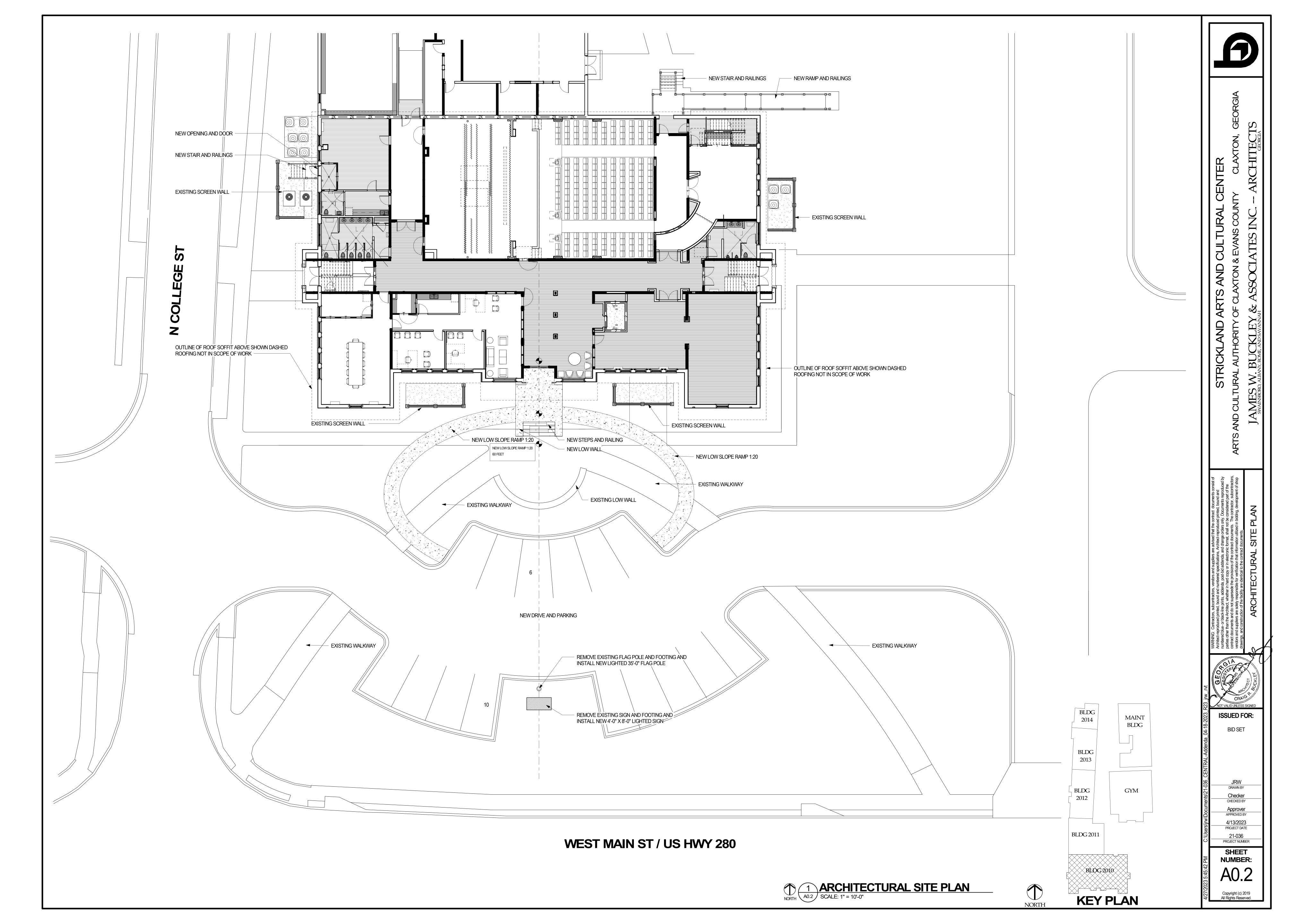
DEMOLITION SECTION AT AUDITORIUM

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









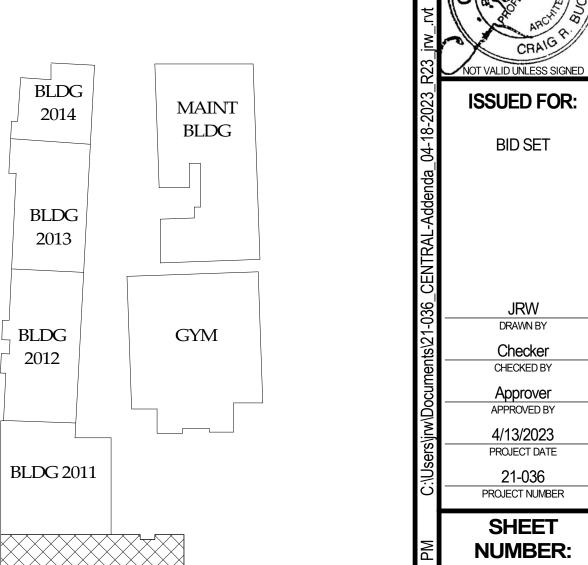
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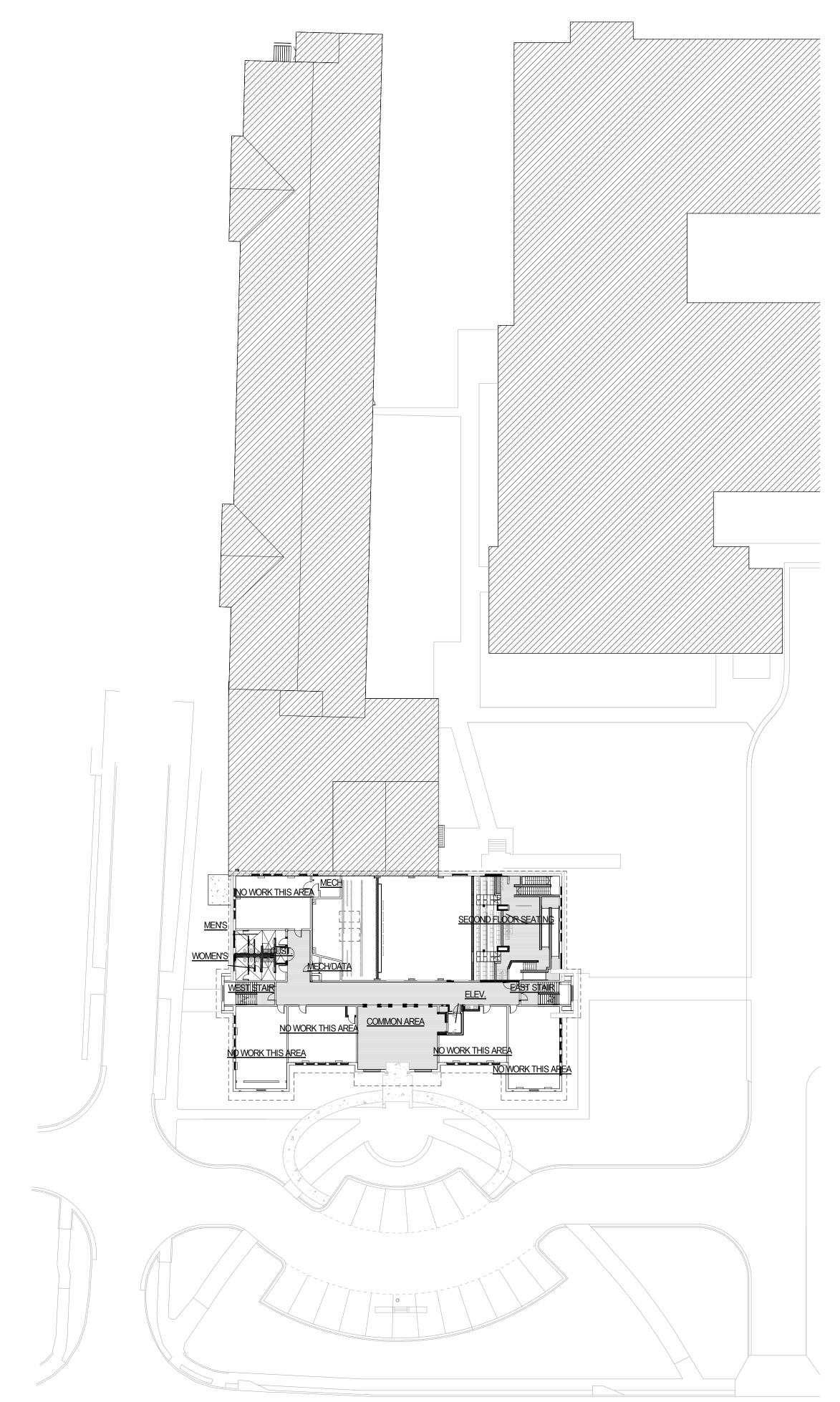
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PROJECT DATE

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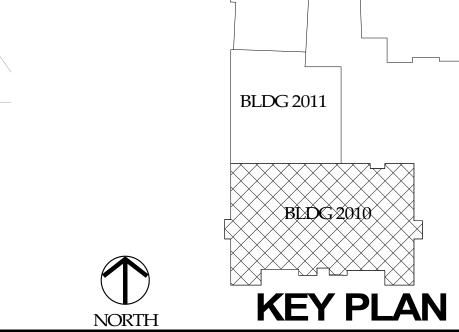


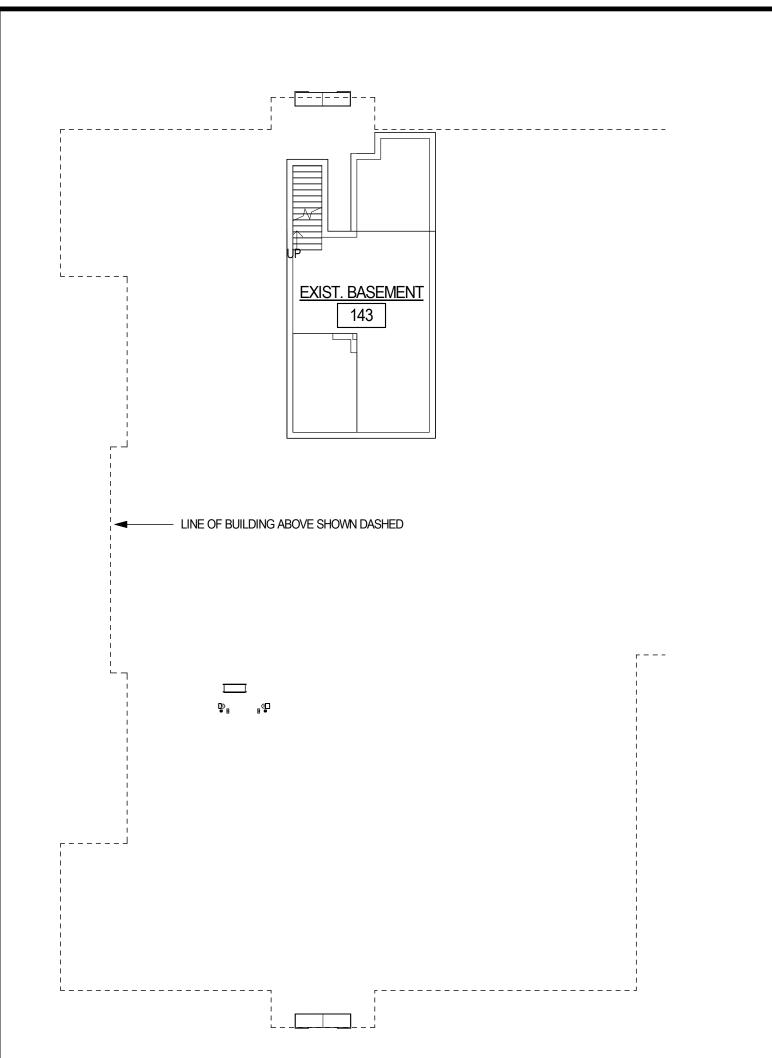


1 COMPOSITE PLAN - FIRST FLOOR

SCALE: 1" = 30'-0"







# 1 LIFE SAFTEY PLAN - BASEMENT SCALE: 1/16" = 1'-0"

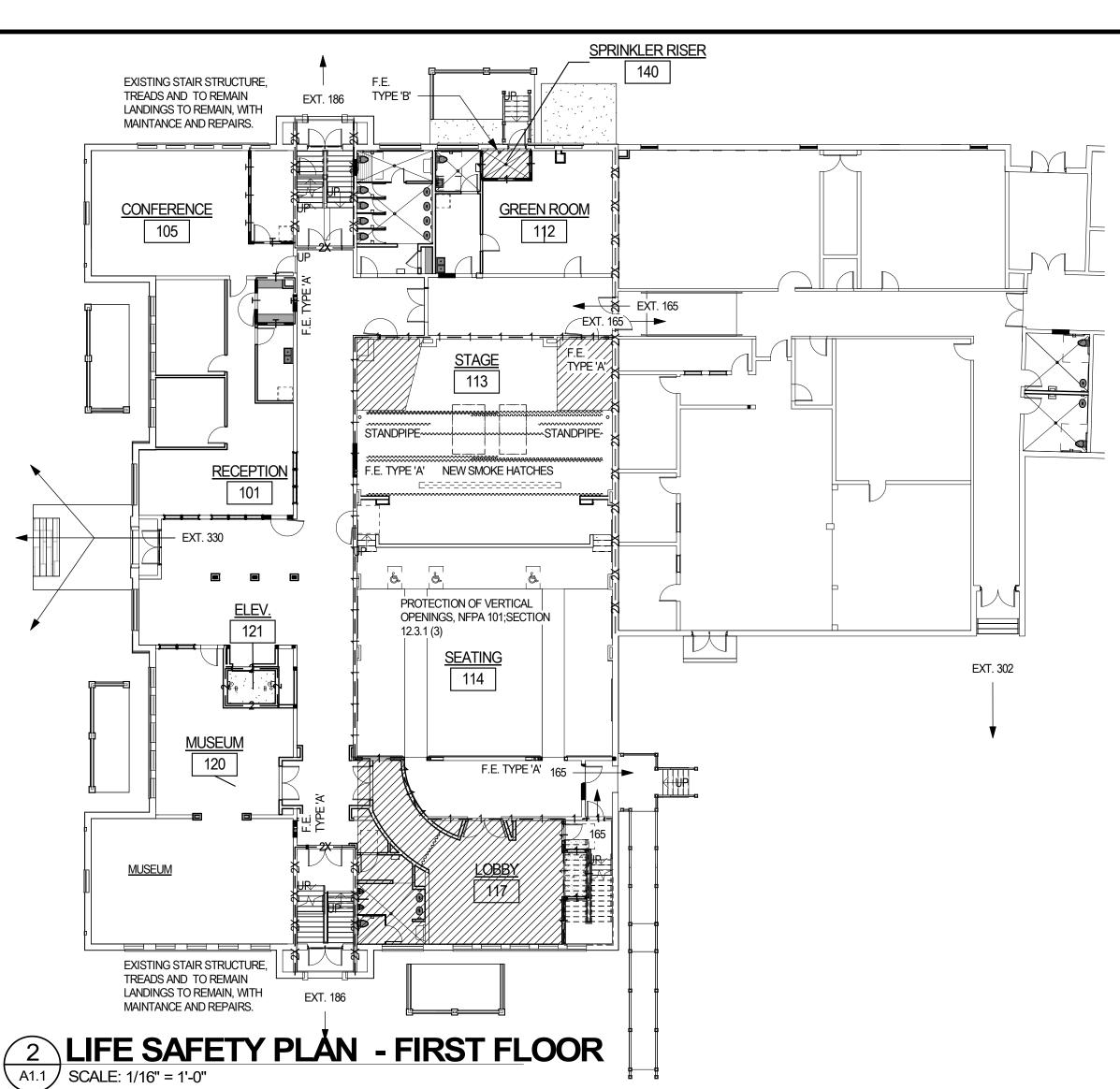
#### **GENERAL NOTES** . IT SHALL BE THE RESPONSIBILTY OF THE GENERAL CONTRACTOR TO HAVE ON SITE A COPY OF ANY AND ALL UL

LIFE SAFETY NOTES

- DESIGNS OR REGULATIONS CITED BY, BUT NOT LIMITED TO: ARCHITECT, ENGINEER, MANUFACTURER OR WHERE UL DESIGN AND/OR STANDARD IS REFERENCED, THE CONSTRUCTION SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE REFERENCED DESIGN NUMBER AND/ OR STANDARD; UNLESS ALLOWED DESIGN OMISSIONS ARE
- NOTED AND/OR DETAILED TO REMAIN, OR ALLOWED DESIGNED OPTIONAL ITEMS ARE NOTED AND/OR DETAILED AS MANDATORY REQUIREMENTS FOR CONSTRUCTION. WHERE FIRE PRODUCTS (INCLUDING BUT NOT LIMITED TO; SEALANTS, SPRAYS, FOAMS, INTUMESCENTS, OR CAULKING) ARE REQUIRED, ALL MATERIALS SHALL BE FROM A SINGLE SOURCE SPECIFIED MANUFACTURER BRAND CORRELATING TO UL DESIGNS, AS DESIGNATED BY THE GENERAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- WHERE FIRE PRODUCTS (INCLUDING BUT NOT LIMITED TO; SEALANTS, SPRAYS, FOAMS, INTUMESCENTS, OR CAULKING) ARE REQUIRED, ALL MATERIALS SHALL BE FROM A SINGLE SOURCE SPECIFIED MANUFACTURER BRAND CORRELATING TO UL DESIGNS, AS DESIGNATED BY THE GENERAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. . IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE AND ENSURE THAT ALL
- SUBCONTRACTORS ARE PROVIDING THE PROJECT DESIGNATED SINGLE SOURCE SPECIFIED MANUFACTURER BRAND. THE GENERAL CONTRACTOR (GC) IS REQUIRED TO COMPLY WITH NFPA CODE 241. THE GC IS RESPONSIBLE TO MEET ALL TEMPORARY EGRESS REQUIREMENTS AS STATED BY THE AUTHORITY HAVING JURISDICTION. THE OWNER AND ARCHITECT SHALL BE NOTIFIED 10 BUSINESS DAYS PRIOR TO ANY CHANGES IN EGRESS.
- WALLS SURROUNDING & BETWEEN GANG TOILETS EXTENDING TO FLOOR/CEILING/ROOF DECK ASSEMBLY SHALL ONLY BE CONTRUCTION OF CMU. DO NOT CHANGE TO GYPSUM BOARD ON METAL STUDS. . ALL FIRE EXTINGUISHERS REGARDLESS OF TYPE ARE CLASS ABC 10 POUND UNLESS NOTED. ANY RESIDENTIAL STOVE OR COMMERCIAL COOKING EQUIPMENT SHALL HAVE LEAST ONE CLASS K EXTINGUISHERS LOCATED NO LESS THEN 15'-0" FROM A POINT OF USE. ALL RATED WALLS, PARTITIONS AND/ OR ASSEMBLIES SHALL BE EFFECTIVELY AND PERMANYLY IDENTIFIED IN A
- MANNOR ACCEPTIBLE THE THE AHJ, AND AS SPECIFIED IN SECTION 099000; PAINTS & COATINGS, UNDER 'FIRE CODE REQUIREMENTS'. WORDING SHALL MATCH THE WORDING LISTED IN THE LIFE SAFETY 'LEGEND' AND APPROVED BY THE ARCHITECT PRIOR TO ANY INSTALLATION. 10. CODES ENFORCED BUT NOT LIMITED TO THE FOLLOWING - IECC 2015 ED.; IBC, IFC, IMC, IPC, 2018 ED. WITH GEORGIA DCA AMENDMENTS; NFPA 72, 2021 ED.; NFPA LSC 101, 2018ED., ALL NATIONAL FIRE CODE SECTIONS AND AMMENMENTS
- LISTED IN 120-3-3 GEORGIA MIN. FIRE SAFETY STD, 2020 ED.; AND 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN. EXTEND ALL DECK PARTITIONS (- D -) TO FLOOR/CEILING/ROOF DECK ASSEMBLY CHANGING FROM CMU TO METAL STUD AT 8" ABOVE CEILING UNLESS NOTED OR DETAILED OTHERWISE. METAL STUD SIZE SHOULD MEET THE MINIMUM SPECIFIED REQUIREMENTS WITH GYPSUM BOARD ON BOTH SIDES & ACOUSTICAL BATT; TAPED AND SEALED WITH
- INTERSECTIONS TO RESIST SOUND TRANSFERENCE. ALL CONCRETE MASONRY WALLS & METAL STUDS WITH GYPSUM BOARD PARTITIONS NOT OTHERWISE NOTED OR DETAILED SHALL EXTEND A MINIMUM OF 8" ABOVE HIGHEST ADJACENT CEILING.

COMPOUND AND ACOUSTICAL SEALANTS TO MEET A LEVEL 3 FINISH. SEAL OPENINGS, PENETRATIONS AND

- RATED WALLS AND BARRIERS . UNLESS NOTED OR DETAILED OTHERWISE, EXTEND ALL FIRE RATED WALLS/BARRIERS (NEW AND/OR EXISTING)TO FLOOR/CEILING/ROOF DECK ASSEMBLIES. SEAL BETWEEN WALL/BARRIER AND THE DECK ASSEMBLY (NEW AND/OR EXISTING) WITH MATERIALS SPECIFIED AND/OR REQUIRED TO MAINTAIN INDICATED RATING
- WHERE A HORIZONTAL ASSEMBLY IS INSTALLED & RATING OF ASSEMBLY EQUALS OR EXCEEDS RATING OF WALL/BARRIER, FIRE RATED WALL/BARRIER SHALL TERMINATE AT 8" ABOVE FIRE RATED ASSEMBLY UNLESS DETAILED OR NOTED OTHER WISE
- SEAL ALL PENETRATIONS THROUGH RATED PARTITIONS AND ASSEMBLIES WITH FIRE PRODUCT MATERIAL AND METHODS REQUIRED TO MAINTAIN RATINGS USING UL DESIGNS AND/OR STANDARDS, AS REQUIRED BY THE
- AUTHORITIES HAVING JURISDICTION. 1 & 2 HOUR RATED WALL/BARRIERS SHOWN TO EXTEND TO UPPER FLOOR/ROOF DECKS SHALL CHANGE FROM CMU TO RATED GYPUM BOARD ON METAL STUD AT 8" ABOVE RATED ASSEMBLIES UNLESS OTHERWISE SHOWN, NOTED OR
- FIRE RATED MASONRY WALLS SHALL HAVE MASONRY MANUFACTURED IN ACCORDANCE WITH UL #618. 1 HOUR RATED MASONRY WALLS (NEW AND/OR EXISTING) SHALL COMPLY WITH NCMA TEK 7-1A 'FIRE RESISTANCE RATING OF CONCRETE MASONRY ASSEMBLIES'. VERTICAL JOINTS SHALL BE IN AN ALIGNED PATTERN (STACKED BOND)
- UNLESS OTHERWISE SHOWN, NOTED OR DETAILED. 2 HOUR RATED MASONRY WALLS (NEW AND/OR EXISTING) SHALL COMPLY WITH UL #U905 OR #U906, INCLUDING
- STAGGERED VERTICAL JOINTS (RUNNING BOND). EXISTING 8" CMU MASONARY WALLS NOT LABELED AS RATED HAVE A CALCULATED RATING OF 2.0143 HOURS BASED
- I.B.C. SECTION 722.3 & TABLE 722.3.2; 2018 ED. ). EXISTING 6" CMU MASONARY WALLS NOT LABELED AS RATED HAVE A CALCULATED RATING OF 1.7672 HOURS BASED
- I.B.C. SECTION 722.3 & TABLE 722.3.2; 2018 ED. 10. EXISTING 4" CMU MASONARY WALLS NOT LABELED AS RATED HAVE A CALCULATED RATING OF 1.734 HOURS BASED
- I.B.C. SECTION 722.3 & TABLE 722.3.2; 2018 ED. 11.  $\,$  1 HOUR RATED WOOD STUD WALLS, BARRIERS, AND/OR PARTITIONS - NEW OR EXISTING SHALL COMPLY WITH UL #U304.
- JOINT TREATMENT SHALL MEET MIN. UL REQUIREMENT AND A LEVEL 3 FINISH OR GREATER. 12. 1 HOUR RATED NON-BEARING METAL STUD PARTITIONS SHALL COMPLY WITH UL #U465 AS PUBLISHED WITH THE EXCEPTION TO THE LAST LINE OF ITEM 5. 'JOINT TAPE AND COMPOUND'. REGARDLESS OF THE TYPE OF GYPSUM
- BOARD EDGE SUPPLIED, PAPER TAPE AND JOINT COMPOUND SHALL NOT BE OMITTED. JOINT TREATMENT SHALL MEET MIN. UL REQUIREMENT AND MEET A LEVEL 3 FINISH OR GREATER. 13. 1 & 2 HOUR RATED METAL STUD WALLS, BARRIERS, AND/OR PARTITIONS SHALL COMPLY WITH UL #U425. JOINT TREATMENT SHALL MEET MIN. UL REQUIREMENT AND A LEVEL 3 FINISH OR GREATER.
- . SMOKE TIGHT HORIZONTAL ASSEMBLY SHALL BE CONSTRUCTED AS A NON-RATED WALL PLACED HORIZONTALLY, AS ROOM/SPACE CAPS AND/OR ROOF SOFFITS, USING AT MIN. 3 5/8" METAL STUD AT 16" 0.C. UNLESS DETAILED OR NOTED OTHERWISE WITH A LAYER OF 5/8" GYPSUM BOARD; TAPED AND SEALED WITH PLASTER TO A LEVEL 3 FINISH OR GREATER. SEAL BETWEEN WALL ASSEMBLY WITH MATERIALS SPECIFIED & REQUIRED TO MAINTAIN INDICATED RATING 2 HOUR RATED HORIZONTAL ASSEMBLY SHALL BE CONSTRUCTED AS A ONE HOUR FIRE RATED WALL PLACED HORIZONTALLY, AS ROOM/SPACE CAPS AND/OR ROOF SOFFITS, IN ACCORDANCE WITH THE REQUIREMENTS OF UL# U465 AS PUBLISHED WITH THE EXCEPTION TO THE LAST LINE OF ITEM 5. 'JOINT TAPE AND COMPOUND'. REGARDLESS OF THE TYPE OF GYPSUM BOARD EDGE SUPPLIED, PAPER TAPE AND JOINT COMPOUND SHALL NOT BE OMITTED. JOINT TREATMENT SHALL MEET MIN. UL REQUIREMENT AND A LEVEL 3 FINISH OR GREATER. SEAL BETWEEN WALL ASSEMBLY
- WITH MATERIALS SPECIFIED & REQUIRED TO MAINTAIN INDICATED RATING 1 HOUR RATED HORIZONTAL ASSEMBLY SHALL BE CONSTRUCTED AS A ONE HOUR FIRE RATED WALL PLACED HORIZONTALLY, AS ROOM/SPACE CAPS AND/OR ROOF SOFFITS, IN ACCORDANCE WITH THE REQUIREMENTS OF UL# U465 AS PUBLISHED WITH THE EXCEPTION TO THE LAST LINE OF ITEM 5. 'JOINT TAPE AND COMPOUND'. REGARDLESS OF THE TYPE OF GYPSUM BOARD EDGE SUPPLIED, PAPER TAPE AND JOINT COMPOUND SHALL NOT BE OMITTED. JOINT TREATMENT SHALL MEET MIN. UL REQUIREMENT AND A LEVEL 3 FINISH OR GREATER. SEAL BETWEEN WALL ASSEMBLY WITH MATERIALS SPECIFIED & REQUIRED TO MAINTAIN INDICATED RATING.
- 1 HOUR RATED FLOOR/CEILING ASSEMBLY SHALL BE CONSTRUCTED IN ACORDANCE WITH THE GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL FILE NO. FC 5410 DESIGN. JOINT TREATMENT SHALL MEET MIN. UL REQUIREMENTS AND A LEVEL 3 FINISH OR GREATER. SEAL BETWEEN WALL ASSEMBLY WITH MATERIALS SPECIFIED & REQUIRED TO MAINTAIN INDICATED RATING.
- 1 HOUR RATED HORIZONTAL ASSEMBLY SHALL BE CONSTRUCTED AS TWO LAYERS 5/8" TYPE X GYPSUM BOARD WITH STAGGED JOINTS PREPENDICULAR TO STRUCTUREAL TRUSSES AND/OR ROOF ELEMENTS. JOINT TREATMENT SHALL MEET MIN. UL REQUIREMENTS AND A LEVEL 3 FINISH OR GREATER. SEAL BETWEEN WALL ASSEMBLY WITH MATERIALS SPECIFIED & REQUIRED TO MAINTAIN INDICATED RATING.
- SMOKE TIGHT HORIZONTAL ASSEMBLY SHALL BE CONSTRUCTED AS ONE LAYERS 5/8" GYPSUM BOARD WITH STAGGED JOINTS PREPENDICULAR TO STRUCTUREAL TRUSSES AND/OR ROOF ELEMENTS. JOINT TREATMENT SHALL MEET MIN. A LEVEL 3 FINISH OR GREATER. SEAL BETWEEN WALL ASSEMBLY WITH MATERIALS SPECIFIED & REQUIRED TO MAINTAIN INDICATED RATING

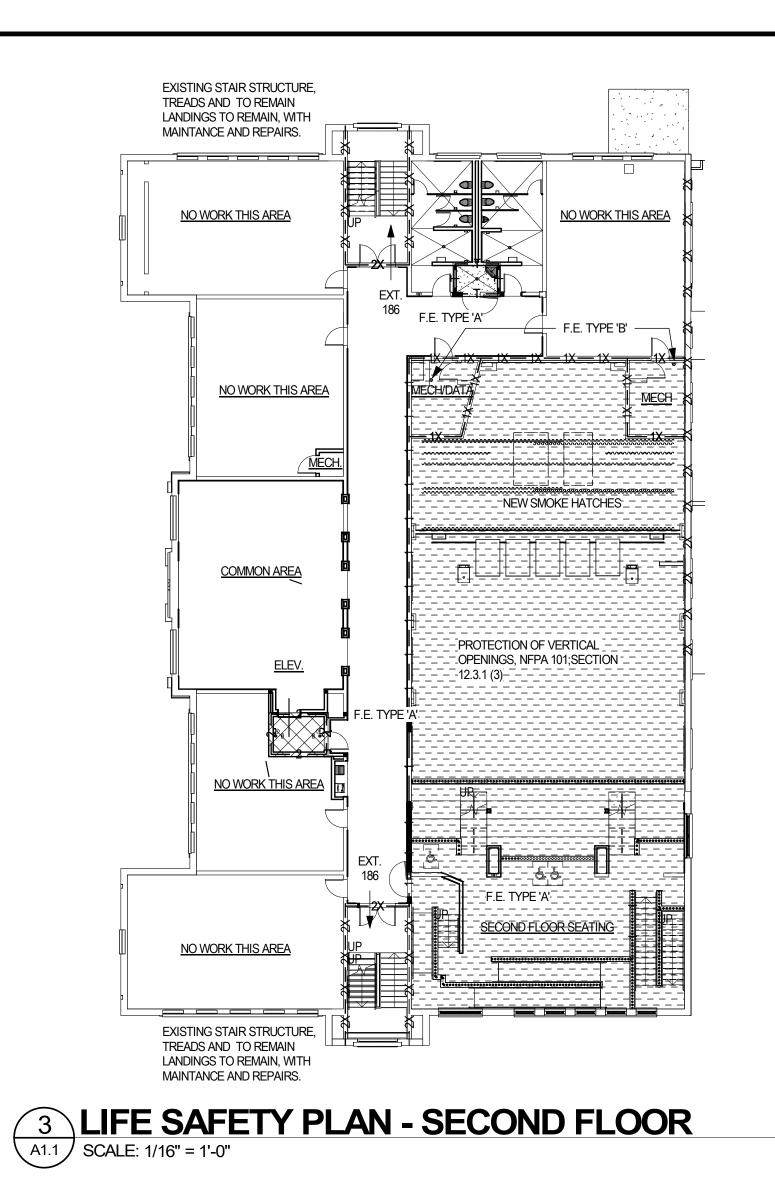


|      |                 | MUSEUM  EXISTING ST TREADS AND LANDINGS TO MAINTANCE | AIR STRUCTURE,<br>O TO REMAIN | EXT. 186  AN - FI |          |          | EXT. 302                        |
|------|-----------------|--|-------------------------------|-------------------|----------|----------|---------------------------------|
| _    | A1.1 SCALE:     | 1/16" = 1  | SAFETY                        | SCHEDU            | JLE      |          |                                 |
|      | ROOM            | ARE  | OCCUPANT                      | OCCUPANT          | AUD.     | OCCUPANT |                                 |
| 0.   |                 | Α  | TYPE                          | FACTOR            | SEATTING | LOAD     |                                 |
|      | EXIST. BASEMENT | 976 SF   | BUSINESS                      | 150 SF            |          | 7        |                                 |
| SINE | ENT             |  |                               |                   | 0        | •        | EXISTING BUILDING               |
| 05   | CONFERENCE      | 672 SF   | ASSEMBLY                      | 15 SF             |          | 45       |                                 |
|      | STAGE           | 1588 SF  | ASSEMBLY                      | 15 SF             |          | 106      | FIRST FLOOR 12710 SF            |
|      | SEATING         | 1720 SF  | ASSEMBLY                      |                   | 196      |          | SECOND FLOOR 9825 SF            |
| SEMI |                 |  |                               | I                 | 196      |          | TOTAL 22535 SI                  |
|      | MUSEUM          | 1380 SF  | ASSEMBLY - GALLARY            | 30 SF             |          | 46       |                                 |
|      | BLY - GALLARY   |  | BUID!!:===                    | 1=0 ==            | 0        | 46       | NEW ASSEMBLY / PRIOR EDUCATION  |
| 01   | RECEPTION       | 530 SF   | BUSINESS                      | 150 SF            |          | 4        | INEW ASSEMBLT / PRIOR EDUCATION |

|   | ROOM   | ARE   | OCCUPANT   | OCCUPANT   | AUD.                     | OCCUPAN |
|---|--|---|--|--|--------------------------|---------|
| NO.   | NAME   | A   | TYPE   | FACTOR   | SEATTING                 | LOAD    |
| 143   | EXIST. BASEMENT  | 976 SF  | BUSINESS   | 150 SF   |                          |         |
| BUSINE  | SS   |   |  |  | 0                        |         |
| BASEM   | ENT  |   |  |  | 0                        |         |
| 105   | CONFERENCE   | 672 SF  | ASSEMBLY   | 15 SF  |                          |         |
| 113   | STAGE  | 1588 SF   | ASSEMBLY   | 15 SF  |                          | 1       |
| 114   | SEATING  | 1720 SF   | ASSEMBLY   |  | 196                      |         |
| ASSEM   | BLY  |   |  | •  | 196                      | 1       |
| 120   | MUSEUM   | 1380 SF   | ASSEMBLY - GALLARY   | 30 SF  |                          |         |
| ASSEM   | BLY - GALLARY  |   |  |  | 0                        |         |
| 101   | RECEPTION  | 530 SF  | BUSINESS   | 150 SF   |                          |         |
| 102   | OFFICE   | 153 SF  | BUSINESS   | 150 SF   |                          |         |
| 103   | OFFICE   | 210 SF  | BUSINESS   | 150 SF   |                          |         |
| 104   | WORK   | 86 SF   | BUSINESS   | 150 SF   |                          |         |
| 110   | VEST   | 102 SF  | BUSINESS   | 150 SF   |                          |         |
| BUSINE  | SS   |   |  |  | 0                        |         |
| 112   | GREEN ROOM   | 456 SF  | BUSINESS -COLLAB   | 30 SF  |                          |         |
| 112   |  |   |  |  |                          |         |
|   | SS -COLLAB   |   |  |  | 0                        |         |
| BUSINE  |  | 2012  |  |  | 0<br>196                 | 2       |
| BUSINE  | SS -COLLAB   | 2012  |  |  |                          | 2       |
| BUSINE  | SS -COLLAB   | 2012<br>1651 SF   | ASSEMBLY   |  |                          | 2       |
| BUSINE<br>FINISH  | SS -COLLAB<br>FLOOR - BUILDING 2011/2<br>SECOND FLOOR<br>SEATING   | -   | ASSEMBLY   |  | 196                      | 2       |
| BUSINE<br>FINISH<br>207   | SS -COLLAB<br>FLOOR - BUILDING 2011/2<br>SECOND FLOOR<br>SEATING   | -   | ASSEMBLY  ASSEMBLY - GALLARY   | 30 SF  | 196                      | 2       |
| BUSINE<br>FINISH<br>207<br>ASSEM<br>200   | SS -COLLAB<br>FLOOR - BUILDING 2011/2<br>SECOND FLOOR<br>SEATING<br>BLY  | 1651 SF   |  | 30 SF  | 196                      | 2       |
| BUSINE<br>FINISH<br>207<br>ASSEM<br>200   | SS -COLLAB FLOOR - BUILDING 2011/2 SECOND FLOOR SEATING BLY COMMON AREA  | 1651 SF   |  | 30 SF<br>20 SF                                     | 63<br>63                 | 2       |
| BUSINE<br>FINISH<br>207<br>ASSEM<br>200<br>ASSEM                                      | SS -COLLAB FLOOR - BUILDING 2011/2 SECOND FLOOR SEATING BLY COMMON AREA BLY - GALLARY  | 1651 SF<br>986 SF   | ASSEMBLY - GALLARY   |  | 63<br>63                 | 2       |
| BUSINE<br>FINISH<br>207<br>ASSEM<br>200<br>ASSEM<br>201                               | SS -COLLAB FLOOR - BUILDING 2011/2 SECOND FLOOR SEATING BLY COMMON AREA BLY - GALLARY NO WORK THIS AREA  | 1651 SF<br>986 SF<br>704 SF                               | ASSEMBLY - GALLARY  EDUCATION  | 20 SF  | 63<br>63                 | 2       |
| BUSINE FINISH  207  ASSEM 200  ASSEM 201 202  | SS -COLLAB FLOOR - BUILDING 2011/2 SECOND FLOOR SEATING BLY COMMON AREA BLY - GALLARY NO WORK THIS AREA  | 1651 SF<br>986 SF<br>704 SF<br>793 SF                     | ASSEMBLY - GALLARY  EDUCATION  EDUCATION   | 20 SF<br>20 SF                                     | 63<br>63                 | 2       |
| BUSINE<br>FINISH  207  ASSEM 200  ASSEM 201 202 209                                   | SS -COLLAB FLOOR - BUILDING 2011/2 SECOND FLOOR SEATING BLY COMMON AREA BLY - GALLARY NO WORK THIS AREA NO WORK THIS AREA  | 1651 SF<br>986 SF<br>704 SF<br>793 SF<br>804 SF           | ASSEMBLY - GALLARY  EDUCATION  EDUCATION  EDUCATION                                      | 20 SF<br>20 SF<br>20 SF                            | 63<br>63                 | 2       |
| BUSINE FINISH  207  ASSEM 200  ASSEM 201 202 209 210                                  | SS -COLLAB FLOOR - BUILDING 2011/2 SECOND FLOOR SEATING BLY COMMON AREA BLY - GALLARY NO WORK THIS AREA  | 1651 SF<br>986 SF<br>704 SF<br>793 SF<br>804 SF<br>580 SF | ASSEMBLY - GALLARY  EDUCATION  EDUCATION  EDUCATION  EDUCATION                           | 20 SF<br>20 SF<br>20 SF<br>20 SF<br>20 SF          | 63<br>63                 | 2       |
| BUSINE FINISH  207  ASSEM 200  ASSEM 201 202 209 210 213  EDUCA                       | SS -COLLAB FLOOR - BUILDING 2011/2 SECOND FLOOR SEATING BLY COMMON AREA BLY - GALLARY NO WORK THIS AREA  | 986 SF<br>704 SF<br>793 SF<br>804 SF<br>580 SF<br>744 SF  | ASSEMBLY - GALLARY  EDUCATION  EDUCATION  EDUCATION  EDUCATION                           | 20 SF<br>20 SF<br>20 SF<br>20 SF<br>20 SF          | 63                       |         |
| BUSINE<br>FINISH  207  ASSEM 200  ASSEM 201 202 209 210 213  EDUCA                    | SS -COLLAB FLOOR - BUILDING 2011/2 SECOND FLOOR SEATING BLY COMMON AREA BLY - GALLARY NO WORK THIS AREA                              | 986 SF<br>704 SF<br>793 SF<br>804 SF<br>580 SF<br>744 SF  | ASSEMBLY - GALLARY  EDUCATION  EDUCATION  EDUCATION  EDUCATION                           | 20 SF<br>20 SF<br>20 SF<br>20 SF<br>20 SF          | 63                       | 1       |
| BUSINE FINISH  207  ASSEM 200  ASSEM 201 202 209 210 213 EDUCA SECON                  | SS -COLLAB FLOOR - BUILDING 2011/2 SECOND FLOOR SEATING BLY COMMON AREA BLY - GALLARY NO WORK THIS AREA TION D FLOOR - BUILDING 2010 | 986 SF<br>704 SF<br>793 SF<br>804 SF<br>580 SF<br>744 SF  | EDUCATION EDUCATION EDUCATION EDUCATION EDUCATION EDUCATION EDUCATION                    | 20 SF<br>20 SF<br>20 SF<br>20 SF<br>20 SF<br>20 SF | 63                       | 1       |
| BUSINE FINISH  207  ASSEM 200  ASSEM 201 202 209 210 213  EDUCA SECON 300             | SS -COLLAB FLOOR - BUILDING 2011/2 SECOND FLOOR SEATING BLY COMMON AREA BLY - GALLARY NO WORK THIS AREA TION D FLOOR - BUILDING 2010 NO WORK THIS AREA | 986 SF<br>704 SF<br>793 SF<br>804 SF<br>580 SF<br>744 SF  | ASSEMBLY - GALLARY  EDUCATION EDUCATION EDUCATION EDUCATION EDUCATION EDUCATION BUSINESS | 20 SF<br>20 SF<br>20 SF<br>20 SF<br>20 SF<br>20 SF | 63                       | 1       |
| BUSINE FINISH  207  ASSEM 200  ASSEM 201 202 209 210 213  EDUCA SECON 300 301  BUSINE | SS -COLLAB FLOOR - BUILDING 2011/2 SECOND FLOOR SEATING BLY COMMON AREA BLY - GALLARY NO WORK THIS AREA TION D FLOOR - BUILDING 2010 NO WORK THIS AREA | 986 SF<br>704 SF<br>793 SF<br>804 SF<br>580 SF<br>744 SF  | ASSEMBLY - GALLARY  EDUCATION EDUCATION EDUCATION EDUCATION EDUCATION EDUCATION BUSINESS | 20 SF<br>20 SF<br>20 SF<br>20 SF<br>20 SF<br>20 SF | 63<br>63<br>0<br>0<br>63 | 1       |

| FIRE RAT     | ED WALLS AND BARRIERS  |
|--------------|--|
| — <b>2</b> — | TWO HOUR RATED FIRE WALL (IBC SECTION 706)   |
| — 1 —        | ONE HOUR RATED BARRIER (LSC SECTION 8.2.3, IBC SECTION 706 AND/OR 708)   |
| — 2X—        | EXISTING TWO HOUR RATED WALL (CIRA 1974.)  |
| — 1X—        | EXISTING ONE HOUR RATED WALL (CIRA 1974.)  |
| PARTITIO     | NS AND NON- RATED WALLS  |
| — D —        | DECK PARTITIONS EXTENDING TO BOTTOM OF FLOOR/CEILING/ ROOF DECK ASSEMBLY                                       |
| — т —        | SMOKE TIGHT PARTITIONS (LSC SECTION 8.4)   |
| HORIZON      | TAL ASSEMBLIES   |
|              | 2 HOUR RATED HORIZONTAL ASSEMBLY (SEE NOTE D - 2)  |
|              | 1 HOUR RATED HORIZONTAL ASSEMBLY (SEE NOTE D - 3)  |
|              |  |
|              | 1 HOUR RATED FLOOR CEILING ASSEMBLY (SEE NOTE D-4)   |
|              | HOUR RATED FLOOR CEILING ASSEMBLY (SEE NOTE D-4)      HOUR RATED HORIZONTAL ASSEMBLY AT TRUSSES (SEE NOTE D-5) |
|              |  |
| GENERAL      | 1 HOUR RATED HORIZONTAL ASSEMBLY AT TRUSSES (SEE NOTE D-5 SMOKE TIGHT ASSEMBLY AT TRUSSES (SEE NOTE D-6)       |

FIRE EXTINGUISHER TYPE 'B' - LOCATED IN ALL ELECTRICAL/MECHANICAL ROOMS



EXISTING ROOF ABOVE SHOWN DASHED -EXISTING STAIR STRUCTURE, TREADS AND TO REMAIN LANDINGS TO REMAIN, WITH MAINTANCE AND REPAIRS.

EXISTING STAIR STRUCTURE, TREADS AND TO REMAIN

LANDINGS TO REMAIN, WITH MAINTANCE AND REPAIRS.

4 LIFE SAFETY PLAN - TOP OF STAIRS
SCALE: 1/16" = 1'-0"

NEW SPRINKLER SYSTEM (N.F.P.A. 13) SEE OCCUPANCY SCHEDULE FOR LOADS CONSTRUCTION TYPE: EXISTING 1922 ERA COMBUSIBLE - NEW SPRINKLER I.B.C.: TYPE V(B) - SPRINKLED ALLOWABLE AREA: 18,000 SF PER STORY N.F.P.A. 101: TYPE V(000) TRAVEL DISTANCE TO EXIT: 250' MAX DEAD ENDS: 20' MAX EGRESS

> FIRE MARSHAL SCOPE PLAN SUBMITTED FOR PRELIMINARY DEMOLISH AND THE INSULATION OF AN ELEVATOR. FULL PLANS AND DOCUMENTATION WILL BE SUBMITTED AT A PRIOR DATE.

> > 1' - 0 1/2"

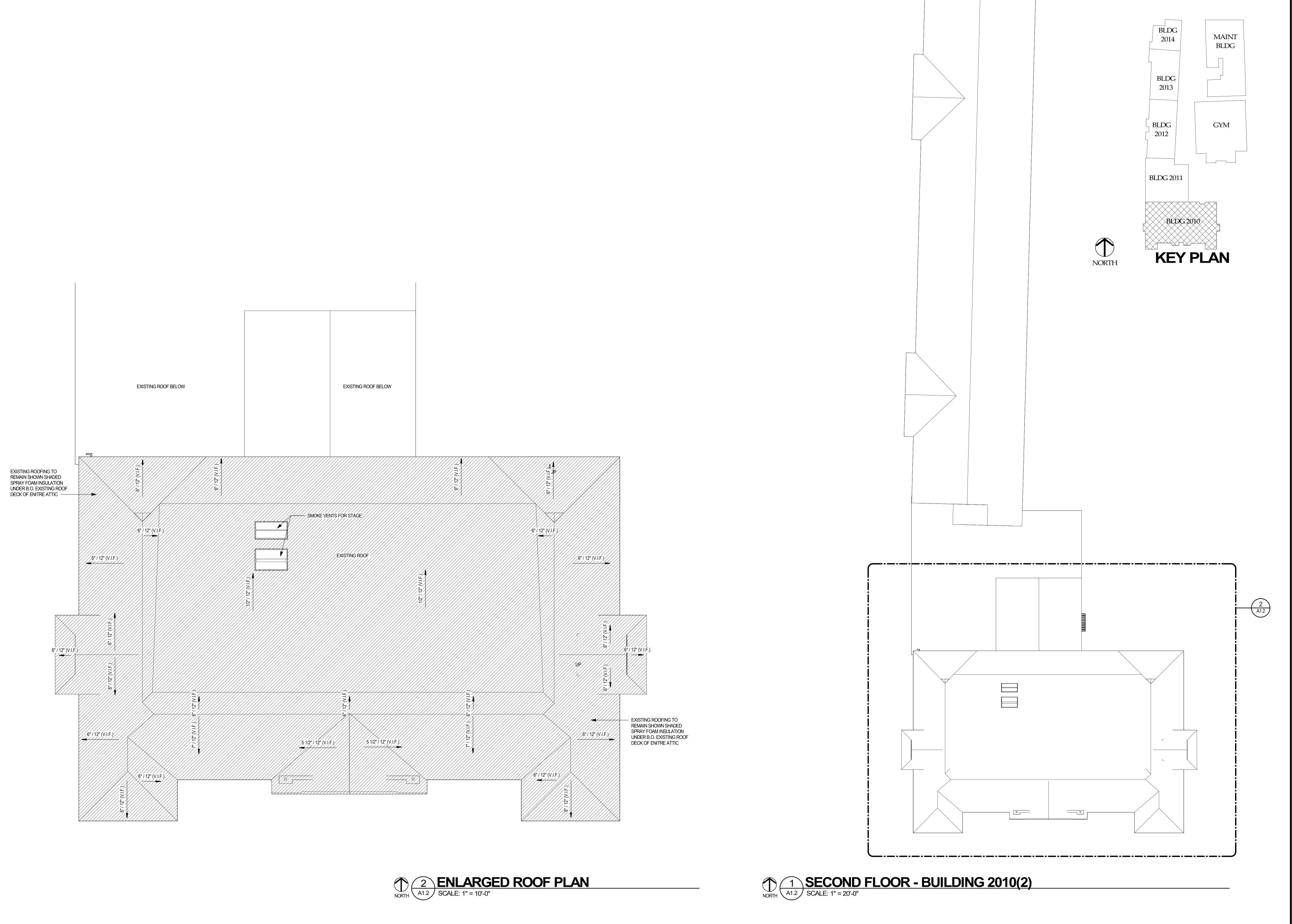
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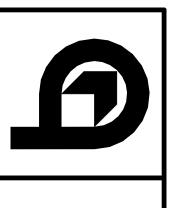


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**ISSUED FOR:** 

MAINT

GYM

2013

BLDG 2012

BLDG 2011

BLDG 2010

**KEY PLAN** 

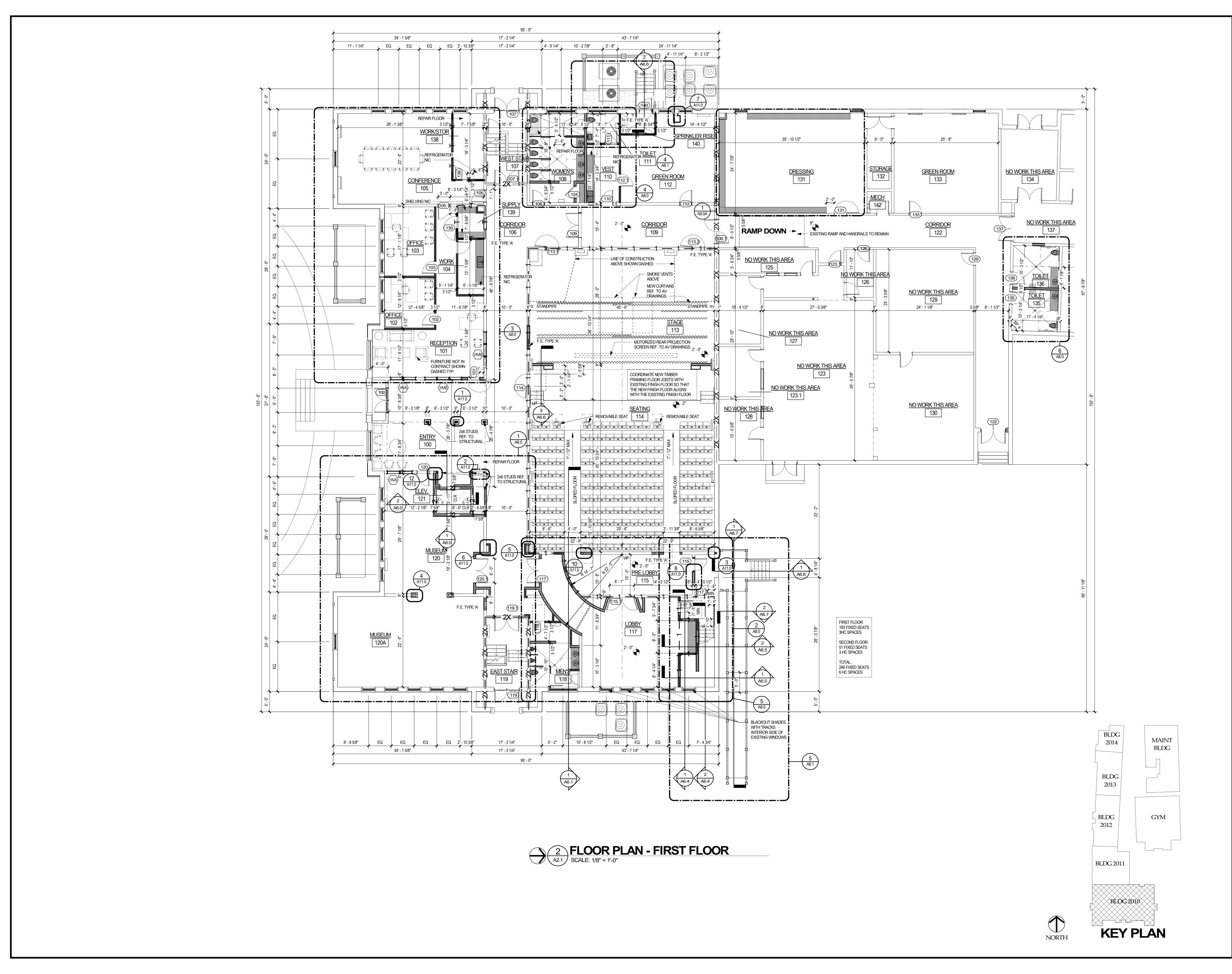
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1 FLOOR PLAN - BASEMENT SCALE: 1/8" = 1'-0"





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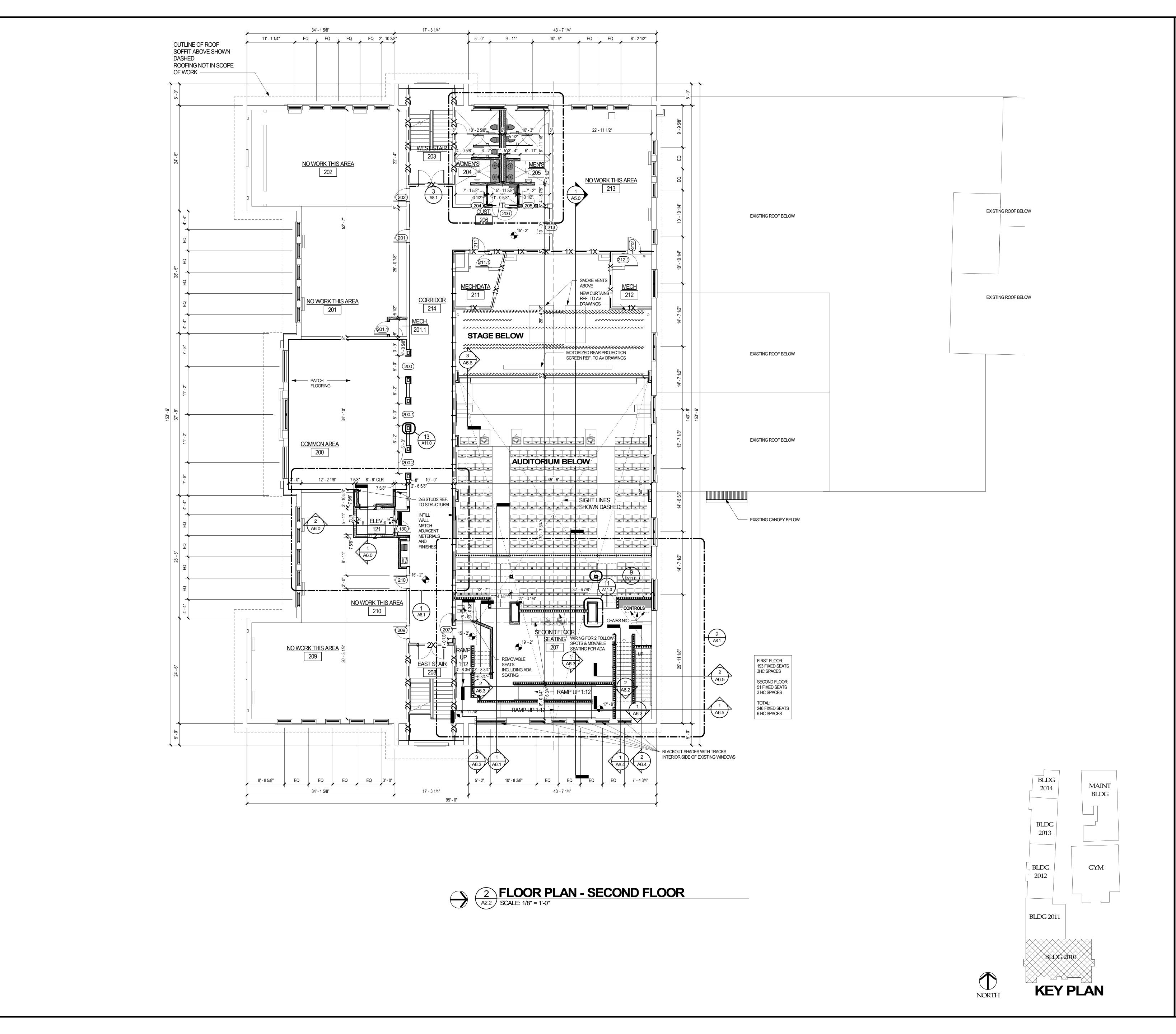
FLOOR PLANS - FIRST FLOOR

SS SS jnw\_rvt

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FLOOR PLANS – SECOND FLOOR

WARNING ArchitectNOT VALID UNLESS SIGNED

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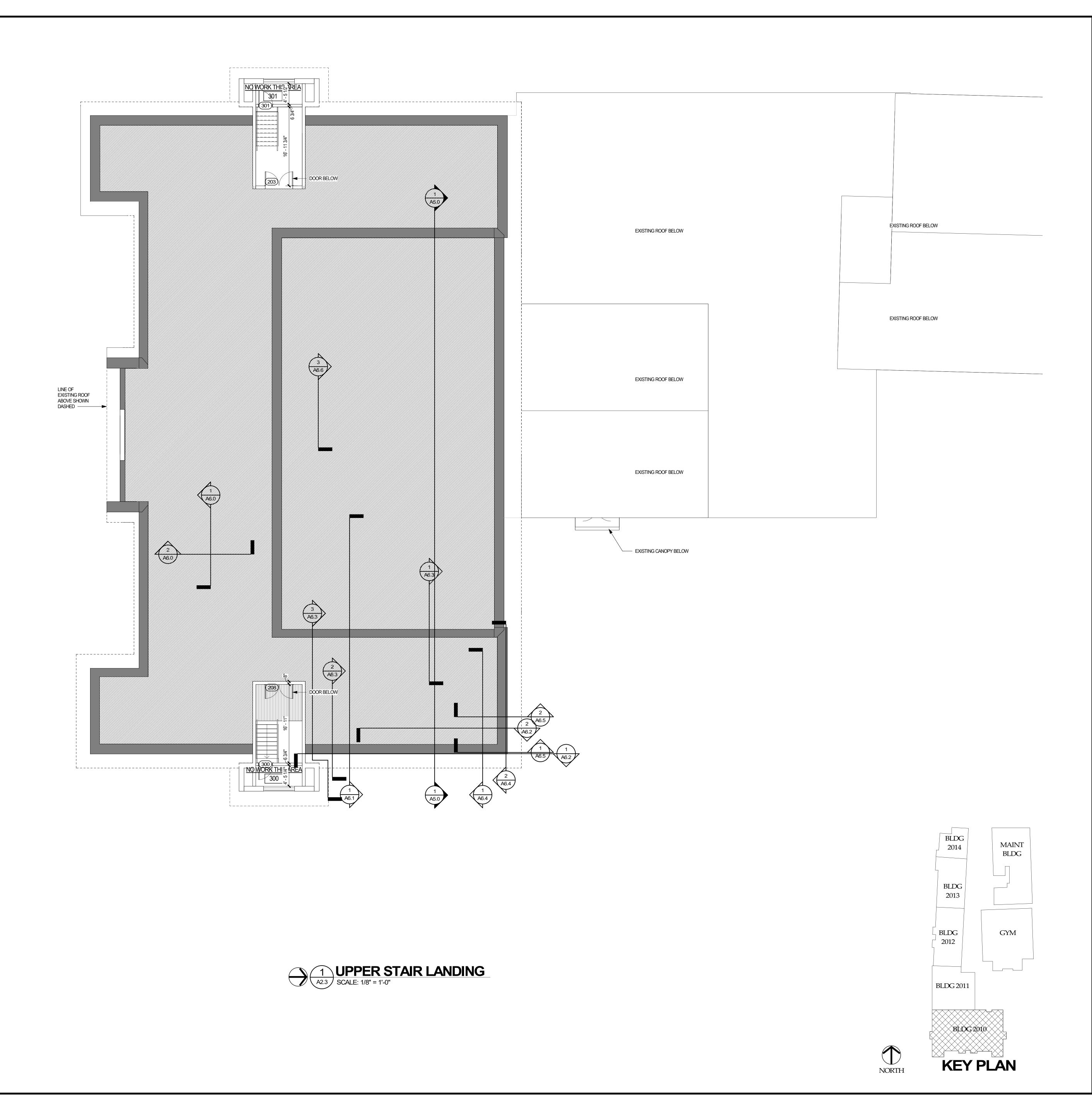
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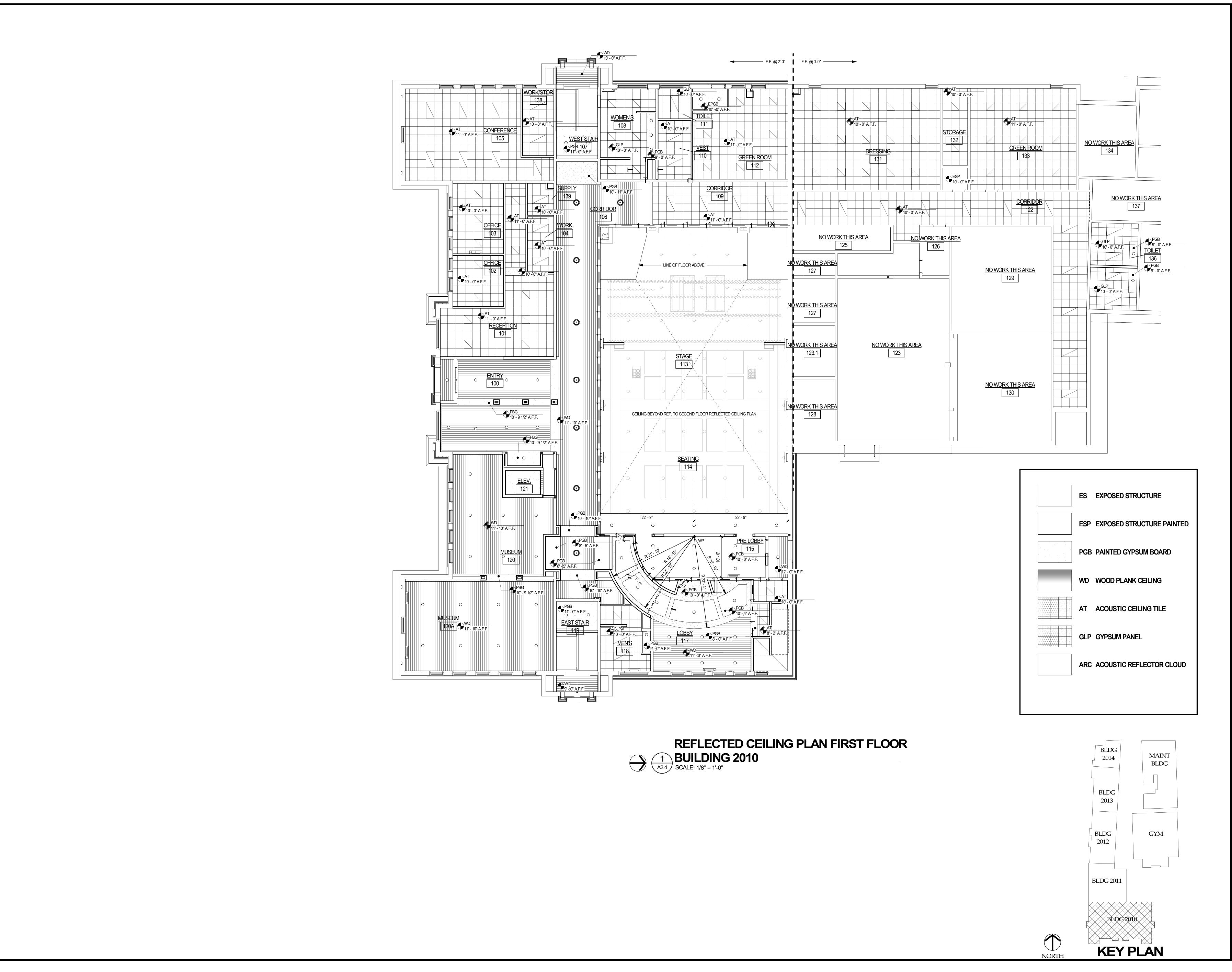
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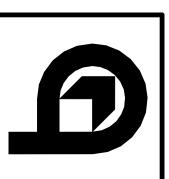


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4/13/2023 PROJECT DATE 21-036 PROJECT NUMBER SHEET





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REFLECTED CEILING PLAN - FIRST FLOOR

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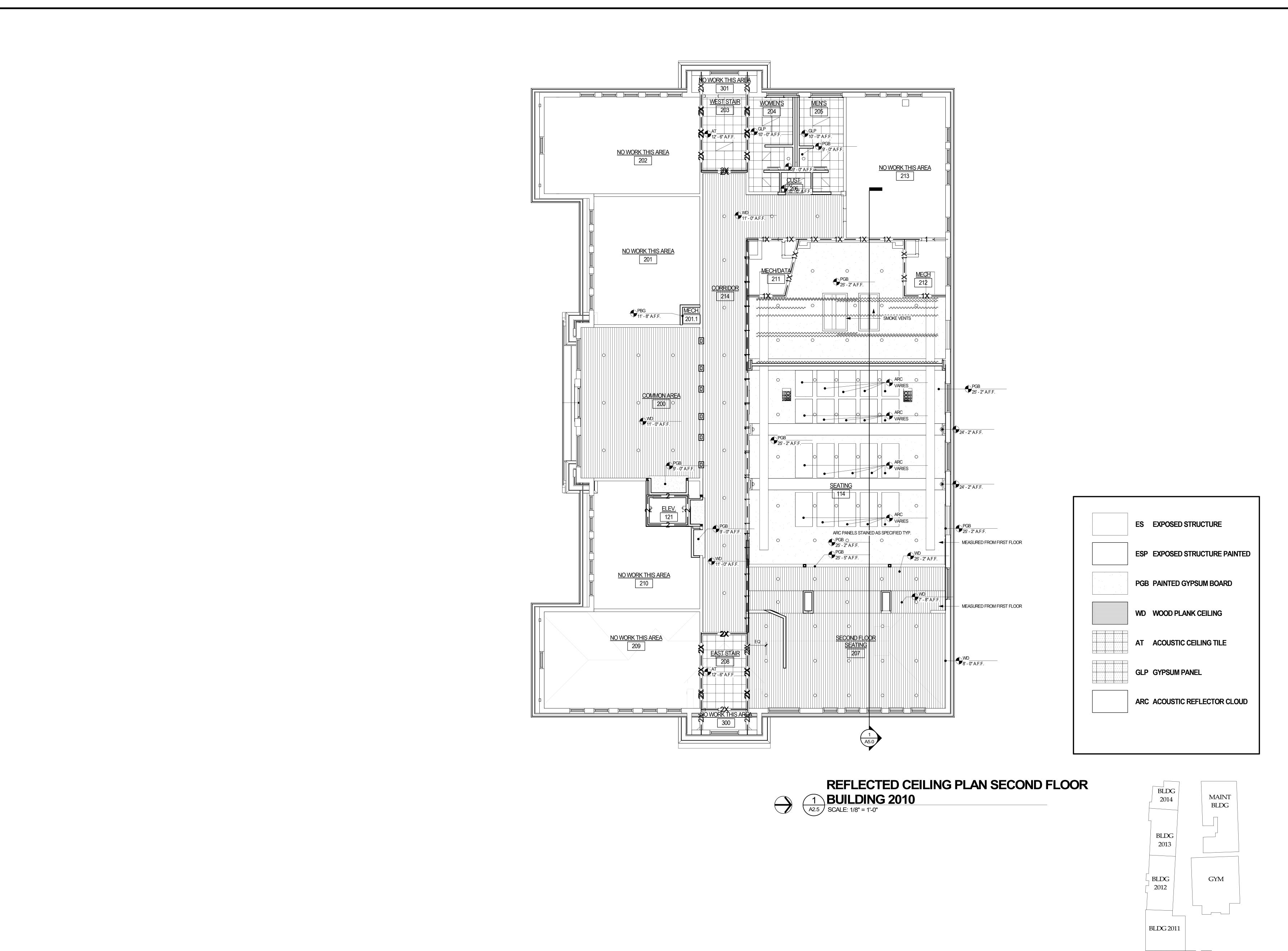
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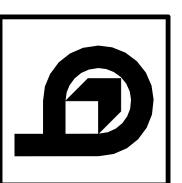
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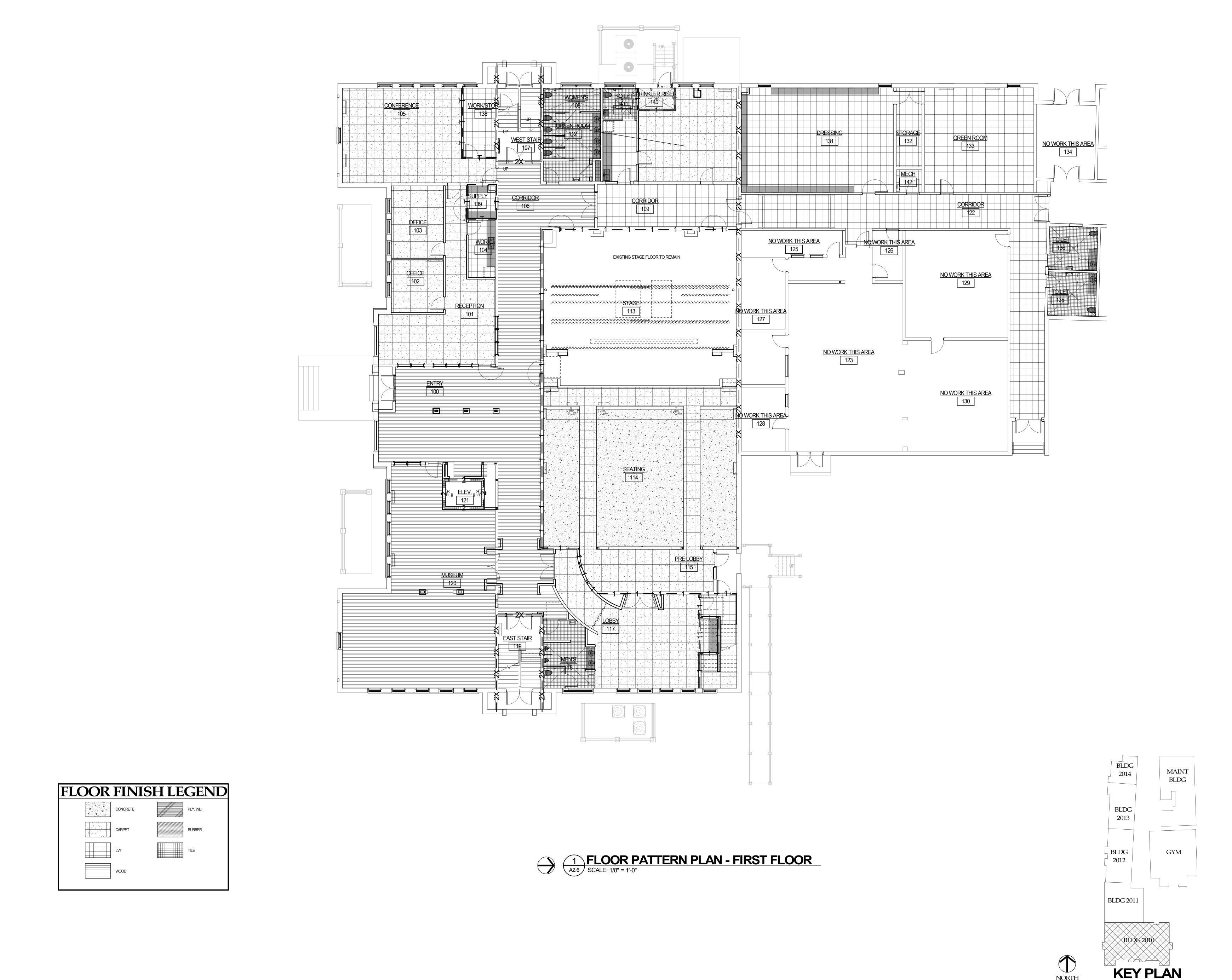
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**KEY PLAN** 



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FLOOR PATTERN PLAN - FIRST FLOOR

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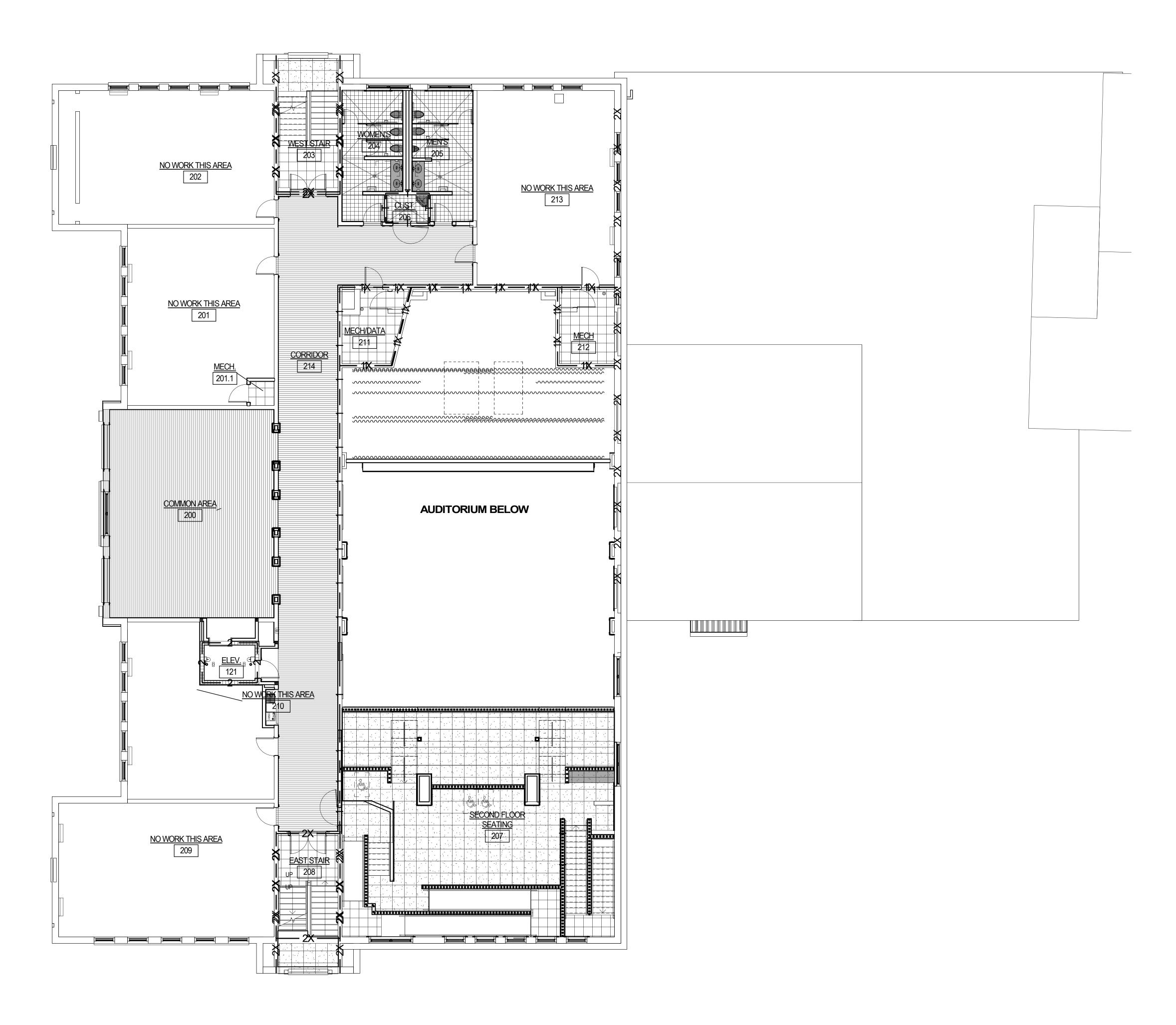
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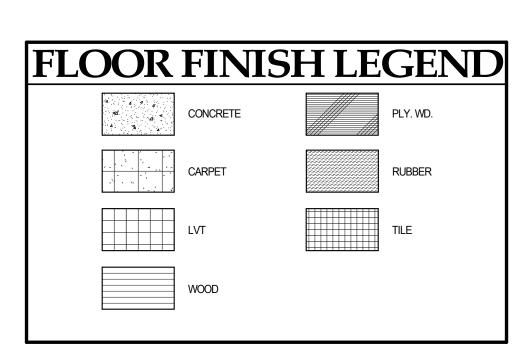
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21-036 PROJECT NUMBER

**NUMBER:** 





#### **DOOR TYPES**

|          |                      |        |      | FINI            | SH SCHEI     | DULE   |               |      |          |  |  |  |  |
|----------|----------------------|--------|------|-----------------|--------------|--------|---------------|------|----------|--|--|--|--|
|          | ROOM FINISHES        |        |      |                 |              |        |               |      |          |  |  |  |  |
|          |                      |        |      |                 | WAIN         | NSCOT  | CEI           | LING |          |  |  |  |  |
| NO. NAME |                      | FLOOR  | BASE | WALL            | FINISH HEIGH |        | FINISH HEIGHT |      | REMARKS  |  |  |  |  |
| 100      | ENTRY                | WD     | WD   | GYP,WP          | WD           | 5'-0"  | WD            |      | 1        |  |  |  |  |
| 101      | RECEPTION            | C      | R    | GYP             | VVD          | 5'-0"  | ACT,GYP       |      | 1        |  |  |  |  |
| 102      | OFFICE               | C      | R    | GYP             |              | 5'-0"  | ACT           |      | 1,2      |  |  |  |  |
| 103      | OFFICE               | C      | R    | GYP             |              | 5'-0"  | ACT           |      | 1,2      |  |  |  |  |
| 104      | WORK                 | LVT    | R    | GYP             |              | J-0    | ACT           |      | 1        |  |  |  |  |
| 105      | CONFERENCE           | WD     | WD   | GYP,WP          |              | 5'-0"  | ACT,GYP       |      | 1,2      |  |  |  |  |
| 106      | CORRIDOR             | WD     | WD   | GYP,WP          |              | 5'-0"  | ACT,GYP       |      | 1,2      |  |  |  |  |
| 107      | WEST STAIR           | C      | R    | GYP             |              | 3-0    | ACT           |      | 1,10     |  |  |  |  |
| 107      | WOMEN'S              | CT     | CT   | CT, GYP         | СТ           | 7'-0"  | ACT           |      | 1,2,5,6  |  |  |  |  |
|          |                      |        |      | GYP             | UI           | 7-0    |               |      |          |  |  |  |  |
| 109      | CORRIDOR             | LVT    | R    |                 |              |        | ACT           |      | 1,5,6,11 |  |  |  |  |
| 110      | VEST                 | LVT    | R    | GYP             | OT           | 71.011 | ACT           |      | 1        |  |  |  |  |
| 111      | TOILET               | LVT    | R    | CT, GYP         | СТ           | 7'-0"  | ACT           |      | 1,2,5,6  |  |  |  |  |
| 112      | GREEN ROOM           | C      | R    | GYP             | 14/5         | \      | ACT           |      | 1        |  |  |  |  |
| 113      | STAGE                | SWF    | R,WD | EPCB,GYP,<br>WP | WD           | VARIES | GYP           |      | 1        |  |  |  |  |
| 114      | SEATING              | C,CONC | WD   | GYP,WP          | WD           | VARIES | ACT,GYP       |      | 1        |  |  |  |  |
| 115      | PRE LOBBY            | С      | WD   | GYP,WP          | WD           | 5'-0"  | ACT           |      | 1        |  |  |  |  |
| 117      | LOBBY                | С      |      | GYP,WP          | WD           | 5'-0"  | WD            |      | 1        |  |  |  |  |
| 118      | MEN'S                | CT     | CT   | CT, GYP         | CT           | 7'-0"  | ACT           |      | 1,2,5,6  |  |  |  |  |
| 119      | EAST STAIR           | О      | R    | GYP             |              |        | ACT           |      | 1,10     |  |  |  |  |
| 120      | MUSEUM               | WD     | WD   | GYP,WP          | WD           | 5'-0"  | WD            |      | 1        |  |  |  |  |
| 121      | ELEV.                | -      | -    | -               | -            | -      | -             |      | 1        |  |  |  |  |
| 122      | CORRIDOR             | LVT    | R    | GYP             |              |        | ACT           |      | 1        |  |  |  |  |
| 135      | TOILET               | LVT    | R    | CT, GYP         | CT           | 7'-0"  | ACT           |      | 1,5,6    |  |  |  |  |
| 136      | TOILET               | LVT    | R    | CT, GYP         | CT           | 7'-0"  | ACT           |      | 1,5,6    |  |  |  |  |
| 138      | WORK/STOR            | LVT    | R    | GYP             |              |        | ACT           |      | 1        |  |  |  |  |
| 139      | SUPPLY               | LVT    | R    | GYP             |              |        | ACT           |      | 1        |  |  |  |  |
| 140      | SPRINKLER RISER      | CONC   | R    | GYP             |              |        | GYP           |      | 1        |  |  |  |  |
| 141      | LOBBY STAIR          | LVT    | R    | GYP             |              |        | ACT           |      | 1        |  |  |  |  |
| 142      | MECH                 | LVT    | R    | GYP             |              |        |               |      | 1        |  |  |  |  |
| 143      | EXIST. BASEMENT      | -      | -    | -               |              |        | -             |      | 1        |  |  |  |  |
| 200      | COMMON AREA          | WD     | WD   | GYP             | WD           | 5'-0"  | ACT           |      | 1,12     |  |  |  |  |
| 201.1    | MECH.                | LVT    | R    | GYP             |              |        |               |      | 1        |  |  |  |  |
| 203      | WEST STAIR           | C      | R    | GYP             |              |        | ACT           |      | 1,10     |  |  |  |  |
| 204      | WOMEN'S              | LVT    | R    | CT, GYP         | СТ           | 7'-0"  | ACT           |      | 1,2,5,6  |  |  |  |  |
| 205      | MEN'S                | LVT    | R    | CT, GYP         | CT           | 7'-0"  | ACT           |      | 1,2,5,6  |  |  |  |  |
| 206      | CUST.                | LVT    | R    | CT, GYP         | CT           | 7'-0"  | GYP           |      | 1,5,6    |  |  |  |  |
| 207      | SECOND FLOOR SEATING | C      | R    | GYP,WP          | WD           | 5'-0"  | ACT,GYP       |      | 1        |  |  |  |  |
| 208      | EAST STAIR           | C      | R    | GYP,WP          | 5            |        | ACT           |      | 1,10     |  |  |  |  |
| 211      | MECH/DATA            | LVT    | R    | GYP             |              |        | 7.07          |      | 1        |  |  |  |  |
| 212      | MECH                 | LVT    | R    | GYP             |              |        |               |      | 1        |  |  |  |  |
| 214      | CORRIDOR             | WD     | WD   | GYP,WP          | WD           | 5'-0"  | ACT,GYP       |      | 1,5,6,11 |  |  |  |  |

NOTE: ROOMS WITH NO WORK ARE NOT SCHEDULED

#### FINISH REMARKS

| 1. | PROVIDE BUILDING SPRINKLER SYSTEM IN ACCORDANCE WITH N.F.P.A. 13. LOCATE PIPING BELOW BUILDING AND |
|----|--|
|    | INSULATE IN MANNER TO PREVENT FREEZING.  |
| _  | DDOLUDE AND INICTALL COUNT DATE AT ALL MOOD OTHER MALE CAUTHULTURE OF ACE                          |

- PROVIDE AND INSTALL SOUND BATTS AT ALL WOOD STUD WALLS WITHIN THIS SPACE.
   PROVIDE ARCHITECTURAL FLOOR PATTERN UTILIZING (3) COLORS OF FLOORING SELECTED FROM
- MANUFACTURERS STANDARD COLORS, SEE PLANS FOR FLOOR GRAPHICS.

  4. PROVIDE AND INSTALL R-19 BATT INSULATION OVER ENTIRE CEILING WITHIN THIS SPACE.
- 5. PROVIDE TILE OVER TILE BACKER PANELS WHERE TILE OCCURS.
- 6. WALLS BEHIND PLUMBING FIXTURES TO RECEIVE TILE. 7. REFER TO REFLECTED CEILING PLANS FOR HORIZONTAL LIMITS OF CEILINGS.
- REFER TO REFLECTED CEILING PLAN FOR CEILING FINISHES AND HEIGHTS IN THIS AREA.
- 9. ALL CEILING HEIGHTS ARE FROM FIN. FLOOR ELEVATION OF SPACE THEY DESCRIBE UNLESS OTHERWISE NOTED. 10. STAIRS TO HAVE RUBBER TREADS AND RISERS.
- 11. ELECTRIC WATER ALCOVES GENERAL NOTE: UNLESS NOTED OR DETAILED OTHERWISE PROVIDE CERAMIC TILES (CT-) ON THREE WALLS OF THE WATER COOLER ALCOVE RECESS, CERAMIC TILE TO BE FULL HEIGHT OF WALLS, UNLESS NOTED OR DETAILED OTHERWISE PROVIDE CERAMIC TILE FLOORING (CT-) AND SETTING BED AR FLOOR, PROVIDE MARBLE TRANSITION STRIP BETWEEN HARD TILE FLOORING AND ADJACENT FINISHED FLOOR.
   12. PATCH FLOOR IN THIS AREA TO MATCH EXISTING

#### MATERIAL & FINISH KEY

| MATERIAL     | _ & FINISH KEY  |                    |   |
|--------------|---|--------------------|---|
| CEILING      |   | FLOORS             |   |
| ACT          | ACOUSTICAL TILE 2'-0" X 2'-0"   | AS                 | ATHLETIC SURFACE  |
| CAT          | COATED ACOUSTICAL TILE 2'-0" X 2'-0"  | C                  | CARPET - PVC BACKED   |
| ECC          | EXTERIOR COATING ON CONCRETE  | CONC               | CONCRETE, SEALED  |
| ECP          | EXTERIOR COATING ON PLASTER   | CONC-AB            | CONCRETE WITH ABRASIVE FIN. (SEALED)  |
| ES           |   | CONC-AB<br>CONC-ST | CONCRETE - STAINED  |
|              | EXPOSED STRUCTURE, UNPAINTED  |                    |   |
| PES          | EXPOSED STRUCTURE, PREFINISHED  | CT-B               | 2"X2" CERAMIC TILE IN SETTING BED   |
| ESP          | EXPOSED STRUCTURE, PAINT SEMI-GLOSS   | CT-T               | 2"X2" CERAMIC TILE, THIN-SET  |
| EFTR         | EXISTING FINISH TO REMAIN. APPLY MATCHING NEW FINISH TO NEW WORK AND REPAIR ANY DAMAGED FINISH TO MATCH EXISTING. | EFTR               | EXISTING FINISH TO REMAIN. AND REPAIR ANY DAMAGED FINISH TO MATCH EXISTING. |
| EXIST.       | EXISTING  | EPOXY              | EPOXY FLOORING SYSTEM   |
| FRA          | FIRE RATED ASSEMBLY   | EXIST.             | EXISTING  |
| FRP          | FIBBER REINFORCED PLASTIC PANEL   | FARF               | FLUID APPLIED RESILIENT FLOORING  |
| GB           | GYPSUM BOARD-UNPAINTED  | GC                 | GYM CARPET  |
| GLP          | GYPSUM LAY-IN PANEL   | GWF                | GYM WOOD FLOOR  |
| MP           | METAL PREFINISHED PANEL   | LIN.               | LINOLEUM  |
| PAT          | PATTERNED ACOUSTICAL TILE 2'-0" X 2'-0" GRID  | LIN.<br>M          | MARBLE  |
| PC           | PAINTED CONCRETE  | PCT                | PRE-CAST TERRAZZO   |
| PGB          | PAINTED GYPSUM BOARD - SEMI-GLOSS   | PWD                | PAINTED PLYWOOD FLOOR   |
| PP           | PAINTED PLASTER   | QT                 | QUARRY TILE   |
| PSC          |   | QT-B               | QUARRY TILE FLOOR ON SETTING BED  |
|              | PLASTER, SPECIAL COATING  |                    |   |
| SYNSTUC.     | SYNTHETIC STUCCO  | SF                 | SEAMLESS FLOORING   |
| TAT          | TEGULAR ACOUSTICAL TILE 2'-0" X 2'-0"   | SWF                | STAGE WOOD FLOOR  |
| VFI          | VINYL FACE INSULATION   | SV                 | SHEET VINYL   |
| -            | NONE, NO WORK REQUIRED  | TERZ               | MONOLITHIC TERRAZZO   |
| TCT          | TECTUM CEILING TILE 2'-0" X 2'-0"   | π                  | TERRAZZO TILE   |
|              |   | WD                 | WOOD  |
| WALLS        |   | LVT                | VINYL COMPOSITION TILE  |
| BRICK        | NOM.4" FACE BRICK VENEER  | -                  | NONE, NO WORK REQUIRED  |
| CB           | CONCRETE BLOCK - UNPAINTED  | DACE               |   |
| СТ-В         | 4"X4" CERAMIC TILE IN SETTING BED   | BASE               |   |
| CT-T         | 4"X4" CERAMIC TILE, THIN-SET  | СТ                 | CERAMIC TILE  |
| ECC          | EXTERIOR COATING ON CONCRETE  | EFTR               | EXISTING FINISH TO REMAIN. APPLY MATCHING                                   |
| ECP          | EXTERIOR COATING ON PLASTER   |                    | NEW FINISH TO NEW WORK AND REPAIR ANY                                       |
| EFTR         | EXISTING FINISH TO REMAIN. APPLY MATCHING NEW   |                    | DAMAGED FINISH TO MATCH EXISTING.   |
|              | FINISH TO NEW WORK AND REPAIR ANY DAMAGED   | EPOXY              | EPOXY FLOORING SYSTEM   |
|              | FINISH TO MATCH EXISTING.   | EXIST.             | EXISTING  |
| EPCB         | EPOXY PAINTED CONCRETE BLOCK  | LIN.               | LINOLEUM  |
| EPGB         | EPOXY PAINTED GYP. BD.  | PCT                | PRE-CAST TERRAZZO   |
| EXIST.       | EXISTING  | PW                 | PAINTED WOOD  |
| GB           | GYPSUM BOARD - UNPAINTED  | QT-B               | QUARRY TILE ON SETTING BED  |
| LECB         | INDUSTRIAL LATEX ENAMEL PAINTED CONC BLK  | R                  | RUBBER  |
| LECB-FG      | INDUSTRIAL LATEX ENAMEL PAINTED CONC BLK,   | SF                 | SEAMLESS BASE   |
| LECD-FG      | FOOD GRADE  | Т                  | TERRAZZO AND SETTING BED  |
| LEGB         | INDUSTRIAL LATEX ENAMEL PAINTED GYP BD  | -                  | NONE, NO WORK REQUIRED  |
| M            | MARBLE  |                    |   |
| PCB          | PAINTED CONCRETE BLOCK - SEMI-GLOSS   |                    |   |
| PCB-A        | PAINTED CONCRETE BLOCK - SEIVI-GLOSS  PAINTED CONCRETE BLOCK - ACRYLIC  |                    |   |
|              | PAINTED CONCRETE BLOCK - ACKTLIC  PAINTED CONCRETE - SEMI-GLOSS ENAMEL  |                    |   |
| PCONC<br>PGB | PAINTED CONCRETE - SEMI-GLOSS ENAMEL PAINTED GYPSUM BOARD, SEMI-GLOSS   |                    |   |
|              |   |                    |   |
| PGB-A        | PAINTED GYPSUM BOARD - ACRYLIC  |                    |   |
| PLS          | PLASTIC LAMINATE  |                    |   |
| PP<br>LIDCB  | PAINTED PLASTER   |                    |   |
| UPCB         | UNPAINTED CONCRETE BLOCK  |                    |   |
| WC           | VINYL WALL COVERING, FIELD APPLIED  |                    |   |
| VCGB         | VINYL COVERED GYPSUM BOARD, PREFINISHED   |                    |   |
| WC           | WALL CARPETING  |                    |   |
| WP           | WOOD PANELING   |                    |   |
| -            | NONE, NO WORK REQUIRED  |                    |   |
|              |   |                    |   |

| DOOR SCHEDULE  |       |            |                    |                        |                  |            |           |                  |                  |                    |          |         |
|----------------|-------|------------|--------------------|------------------------|------------------|------------|-----------|------------------|------------------|--------------------|----------|---------|
| DOOR           | LEAF  | DOOR       |                    | OOR SIZE               | =                | FRAME      | FIRE      |                  | DETAILS          | 3                  | HARD-    |         |
| NO.            | COUNT | TYPE       | WIDTH              | HEIGHT                 | THICK.           | TYPE       | LABEL     | HEAD             | JAMB             | SILL               | WARE     | REMARKS |
| 100            | 2     | MG3        | 3' - 0"            | 7' - 7 1/2"            | 1 3/4"           | HMA        |           |                  |                  | 6/A3.3             | 1        |         |
| 101            | 1     | WG2        | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 12/A3.3            | 14       |         |
| 102            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 9/A3.3             | 15       |         |
| 103            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 9/A3.3             | 15       |         |
| 104            | 1     | WNF<br>WF  | 3' - 0"<br>3' - 0" | 7' - 0"<br>7' - 0"     | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 20/A3.3            | 16<br>13 |         |
| 105<br>105.1   | 1     | WF         | 3'-0"              | 7 - 0"<br>7' - 0"      | 1 3/4"<br>1 3/4" | HMA<br>HMA |           | 1/A3.2<br>1/A3.2 | 3/A3.2<br>3/A3.2 | 12/A3.3<br>9.A3.3  | 13       |         |
| 107            | 2     | MG3        | 3' - 0"            | 7 - 7 1/2"             | 1 3/4"           | HMA        |           | 1///0.2          | 3/73.2           | 6/A3.3             | 10       |         |
| 107.1          | 2     | WNF        | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        | 90 MIN    | 1/A3.2           | 3/A3.2           | 12/A3.3            | 3        |         |
| 108            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 30/A3.3            | 9        |         |
| 109            | 2     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 25/A3.3            | 4        |         |
| 109.1          | 2     | MF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HME        | 90 MIN    | 1/A3.2           | 3/A3.2           | 24/A3.3            |          |         |
| 110            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 24/A3.3            | 13       |         |
| 111            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 3/A3.3             | 12       |         |
| 112            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 20/A3.3            | 13       |         |
| 112.1<br>113.1 | 1     | WF<br>MF   | 3' - 0"<br>3' - 0" | 7' - 0"<br>7' - 0"     | 1 3/4"<br>1 3/4" | HMA<br>HMA | 45 MIN    | 1/A3.2<br>1/A3.2 | 3/A3.2<br>3/A3.2 | 20/A3.3            | 11<br>18 |         |
| 113.1          | 1     | MF         | 3' - 0"            | 7 - 0"<br>7' - 0"      | 1 3/4"           | HMA        | 45 MIN    | 1/A3.2           | 3/A3.2           | 25/A3.3            | 18       |         |
| 114            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        | 45 MIN    | 1/A3.2           | 3/A3.2           | 20/110.0           | 18       |         |
| 115            | 1     | MF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMD        |           |                  | 8/A11.0          | 2/A3.3             | 8        |         |
| 115.1          | 2     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        | 45 MIN    | 1/A3.2           | 3/A3.2           | 9/A3.3             | 5        | 4       |
| 117            | 2     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 12/A3.3            | 5        | 4       |
| 117.1          | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        | 45 MIN    | 1/A3.2           | 3/A3.2           | 9/A3.3             | 6        |         |
| 117.2          | 1     | MF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMD        | 45 MIN    |                  |                  | 2/A3.3             | 7        |         |
| 118            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 30/A3.3            | 9        |         |
| 119<br>119.1   | 2     | MG3<br>WNF | 3' - 0"<br>3' - 0" | 7' - 7 1/2"<br>7' - 0" | 1 3/4"<br>1 3/4" | HMA        | 90 MIN    | 1/02.2           | 3/A3.2           | 6/A3.3<br>12/A3.3  | 3        |         |
| 120            | 2     | WG2        | 3' - 0"            | 7 - 0"<br>7' - 0"      | 1 3/4"           | HMA<br>HMA | 90 IVIIIN | 1/A3.2<br>1/A3.2 | 3/A3.2           | 12/A3.3            | 10       |         |
| 120.1          | 2     | WG2        | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 12/110.0           | 4        |         |
| 122            | 2     | MG1        | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMB        |           | 1/A3.2           | 3/A3.2           | 3/A3.3             | 1        | 9       |
| 123.1          | 1     | WNF        | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 21/A3.3            |          | 8       |
| 126            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 2/A3.3             |          | 8       |
| 129            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 2/A3.3             |          | 8       |
| 131            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 24/A3.3            |          | 8       |
| 133            | 1     | WF         | 3' - 0"<br>3' - 0" | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 24/A3.3            | 40       | 8       |
| 135<br>136     | 1     | WF<br>WF   | 3'-0"              | 7' - 0"<br>7' - 0"     | 1 3/4"<br>1 3/4" | HMA<br>HMA |           | 1/A3.2<br>1/A3.2 | 3/A3.2<br>3/A3.2 | 24/A3.3<br>24/A3.3 | 12<br>12 |         |
| 137            | 2     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1//\3.2          | 3/73.2           | 24//\              | 12       |         |
| 138            | 1     | MF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 20/A3.3            | 17       | 1       |
| 139            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 20/A3.3            | 17       | 1       |
| 140            | 1     | MF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMD        |           | 1/A3.2           | 3/A3.2           | 1/A3.3             | 2        |         |
| 201            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           |                    |          |         |
| 201.1          | 1     | MF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 3/A3.5           | 8/A3.5           | 26/A3.2            | 19       |         |
| 202            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 00/40.0            | 2        |         |
| 203<br>204     | 1     | WNF<br>WF  | 3' - 0"<br>3' - 0" | 7' - 0"<br>7' - 0"     | 1 3/4"<br>1 3/4" | HMA<br>HMA |           | 1/A3.2<br>1/A3.2 | 3/A3.2<br>3/A3.2 | 26/A3.2<br>30/A3.3 | 3        |         |
| 204            | 1 1   | WF         | 3 - 0              | 7 - 0"<br>7' - 0"      | 1 3/4            | HMA        |           | 1/A3.2           | 3/A3.2           | 30/A3.3            | 9        |         |
| 206            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 30/A3.3            | 19       |         |
| 207            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 12/A3.3            | 18       |         |
| 208            | 2     | WNF        | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 26/A3.2            | 3        |         |
| 209            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           |                    |          |         |
| 210            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           |                    | 13       |         |
| 211            | 1     | MF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           | 26/A3.2            |          | ļ       |
| 213            | 1     | WF         | 3' - 0"            | 7' - 0"                | 1 3/4"           | HMA        |           | 1/A3.2           | 3/A3.2           |                    |          |         |
|                |       |            |                    |                        |                  |            |           |                  |                  |                    |          |         |

#### GENERAL NOTES

- 1. DOOR FRAMES TO HAVE EQUAL RABBETS.
- WHERE GYPSUM BOARD IS APPLIED TO THE FACE OF CONCRETE BLOCK WALLS, ADJUST DEPTH OF FRAME TO ACCOMODATE THE GYPSUM BOARD AND FURRING SO THAT THE FRAME FULLY WRAPS AROUND BOTH THE BLOCK AND THE GYPSUM BOARD.
- 3. UNLESS NOTED OTHERWISE, DOORS TO BE UNDERCUT 3/4".

#### DOOR SCHEDULE REMARKS

- 1. DOOR AND FRAME TO BE INSTALLED IN A MANNER TO RESIST PASSAGE OF SMOKE.
- 2. DOOR FRAME TO SET 1'-0" ABOVE FINISH FLOOR.
- 3. PROVIDE DOUBLE EGRESS FRAME.
- 4. DOORS EQUIPPED WITH ELECTROMAGNETIC HOLD OPEN DEVICES & SMOKE DETECTORS (TWO EACH), CONNECTED TO AND ACTIVATED BY THE BUILDING FIRE ALARM SYSTEM.
- CASED OPENING FRAME: PROVIDE A CASED OPENING FRAME. FRAME TO HAVE A PROFILE TO MATCH STANDARD DOOR FRAMES.
- 6. DOOR FRAME IS NOT TO INTERFERE WITH PROPER RUNNING CLEARANCES OF ELEVATOR
- 7. SELF CLOSING SELF LOCKING FIRE RATED DOOR
- 8. EXISTING DOOR TO REMAIN REPAIR BROKEN NARROW LITE IN DOOR
- 9. REPLACE EXISTING DOOR AND CENTER MULLION; EXISTING FRAME TO REMAIN

#### DOOR TYPE NOTES

- 1. REFER TO SCHEDULE FOR LOCATION OF EACH DOOR TYPE. NOT ALL DOOR TYPES NECESSARILY USED.
- 2. FOR DOOR SIZE REFER TO SCHEDULE
- 3. HOLLOW MTL. & WOOD DOORS W/GLASS TO HAVE MTL. GLASS KITS. REFER TO DETAIL # 5/A3.2.
- 4. AT LOUVERED DOORS PROVIDE FIBERGLASS INSECT SCREEN ON INSIDE OF DOOR. SCREEN TO BE 16 MESH/INCH.
- 5. DOOR AND HARDWARE MANUFACTURERS SHALL COORDINATE THE LOCATION OF HORIZONTAL RAILS ON FULL GLASS AND FULL LOUVERED DOORS WITH LOCATION OF PANIC DEVICES AND LOCKSETS. THE PANIC DEVICE AND LOCKSET SHALL BE CENTERED ON THE HORIZONTAL RAIL. NO PORTION OF THE HARDWARE SHALL EXTEND OVER THE GLASS OR GLASS LIGHT KIT.

### GLASS TYPE NOTES - DOORS, TRANSOMS, SIDELIGHTS & VIEW WINDOWS

- PROVIDE GLASS IN DOORS, TRANSOMS, SIDELIGHTS & VIEW WINDOWS WHERE THEY OCCUR.
   WHERE DOORS ARE ADJACENT TO VIEW WINDOWS, GLASS IN DOOR TO MATCH GLASS IN ADJACENT WINDOWS.
- 2. GLASS IN INTERIOR DOORS, TRANSOMS, SIDE LIGHTS AND VIEW WINDOWS TO BE:
- a. NON RATED WALLS (INCLUDING WALLS DESIGNATED AS "D' & "T"): 1/4" CLEAR TEMPERED GLASS
- b. FIRE RATED WALLS (1 AND 2 HOUR WALLS): IN FIRE AND SMOKE RATED (TYPE "S" AND "S1") WALLS GLASS TO BE 1/4" CLEAR TEMPERED WIRE-LESS GLASS.
- 3. GLASS IN EXTERIOR DOORS, TRANSOMS, SIDELIGHTS AND WINDOWS TO BE: a. EXTERIOR DOORS: 5/8" INSULATED, TEMPERED, TINTED.
  - b. EXTERIOR TRANSOMS & SIDELIGHTS: 1" INSULATED, TEMPERED, TINTED.
- c. EXTERIOR WINDOWS: 1" INSULATED, TINTED.
- 4. INSTALL GLASS IN HOLLOW METAL FRAME IN ACCORDANCE WITH DETAIL # 5/A3.2.



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TANARS W. RITCRI EV & ASSOCIATES INIC A RECHITER

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4/13/2023
PROJECT DATE
21-036

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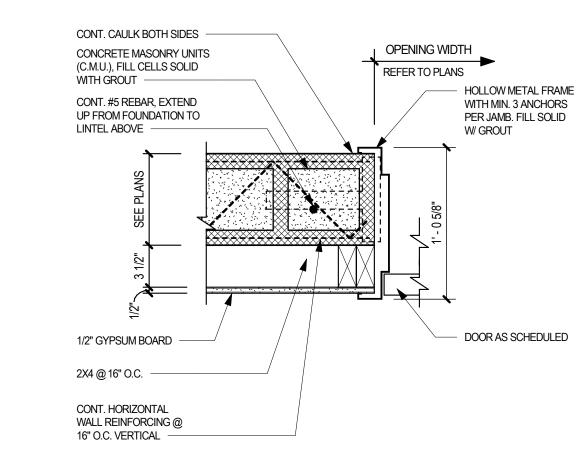
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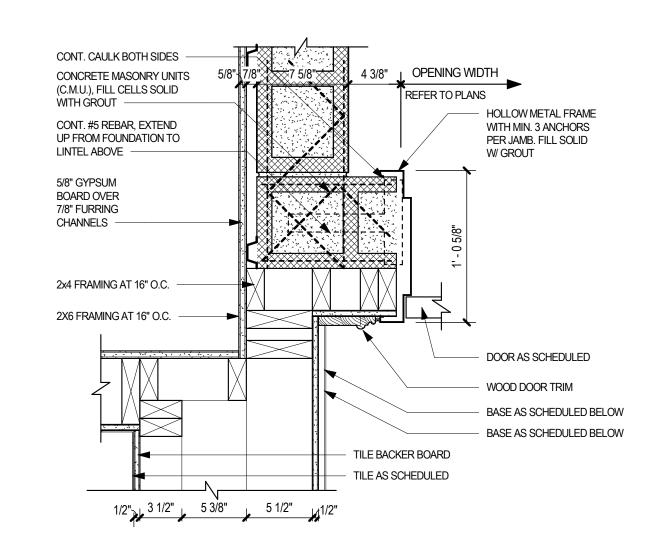
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6 5/8" 5 1/2" 1 7/8" 5 1/2" WOOD VENEER OVER 1/2" GYP. BD. ON 2X6 WOOD STUD CONCRETE MASONRY UNITS (C.M.U.) FRAMING AT 16" O.C. REINFORCED MASONRY LINTEL SEALANT 1/2" GYPSUM BOARD, EXTEND FILL SOLID WITH GROUT WOOD VENEER OVER 1/2" MIN. 8" ABOVE GYP. BD. ON 2X6 WOOD STUD C.M.U., CUT AS CEILING -FRAMING AT 16" O.C. REQUIRED AND FILL DOOR FRAME BY ELEVATOR MFR. SOLID WITH GROUT (2) 2X6 WITH 1/2" BASE AS SCHEDULED BELOW — PLYWOOD PLATE NOM. 8 INCH C.M.U. CAULK BOTH SIDES REF. TO STRUCTURAL FOR HEADER SCHEDULE HORIZ. REINF. @ 16" O.C. CHAIR RAIL ABOVE REFER TO SECTIONS SHOWN DASHED OR FRAME ELEVATIONS METAL SILL BY ELEVATOR MFR. DOOR AS SCHEDULED - HOLLOW METAL FRAME — ÉLEVATOR PIT BELOW

## 1 HEAD - DOOR A3.1 SCALE: 1 1/2" = 1'-0"

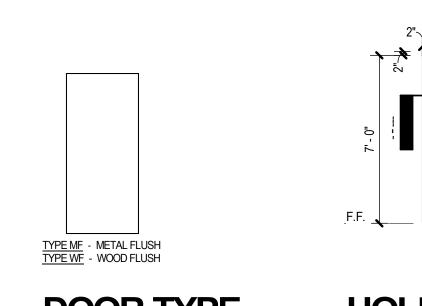


2 JAMB - DOOR
A3.1 SCALE: 1 1/2" = 1'-0"



3 JAMB - DOOR
A3.1 SCALE: 1 1/2" = 1'-0"

## 4 PLAN DETAIL AT ELEVATOR SCALE: 1 1/2" = 1'-0"



**HOLLOW METAL FRAME TYPE DOOR TYPE** 

(HMA)

| DOOR NO.     LEAF COUNT     DOOR SIZE     FRAME TYPE     FIRE LABEL     DETAILS     HARD-WARE       130     140 |      | ACCESS DOOR SCHEDULE |      |         |           |        |      |       |         |           |      |       |         |
|---|------|----------------------|------|---------|-----------|--------|------|-------|---------|-----------|------|-------|---------|
|   | DOOR | LEAF                 | DOOR |         | DOOR SIZE |        |      | FIRE  |         | DETAILS   | )    | HARD- |         |
| 120 1 ME 21 0" 7' 0" 12/4" LIMA 1/A11 0 292/A11 0 67  | NO.  | COUNT                | TYPE | WIDTH   | HEIGHT    | THICK. | TYPE | LABEL | HEAD    | JAMB      | SILL | WARE  | REMARKS |
| 130   1   WF   3 - 0   7 - 0   13/4   HWA   1/A11.0   2&3/A11.0     0,7   | 130  | 1                    | MF   | 3' - 0" | 7' - 0"   | 1 3/4" | HMA  |       | 1/A11.0 | 2&3/A11.0 |      |       | 6,7     |

#### **GENERAL NOTES**

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#### DOOR SCHEDULE REMARKS

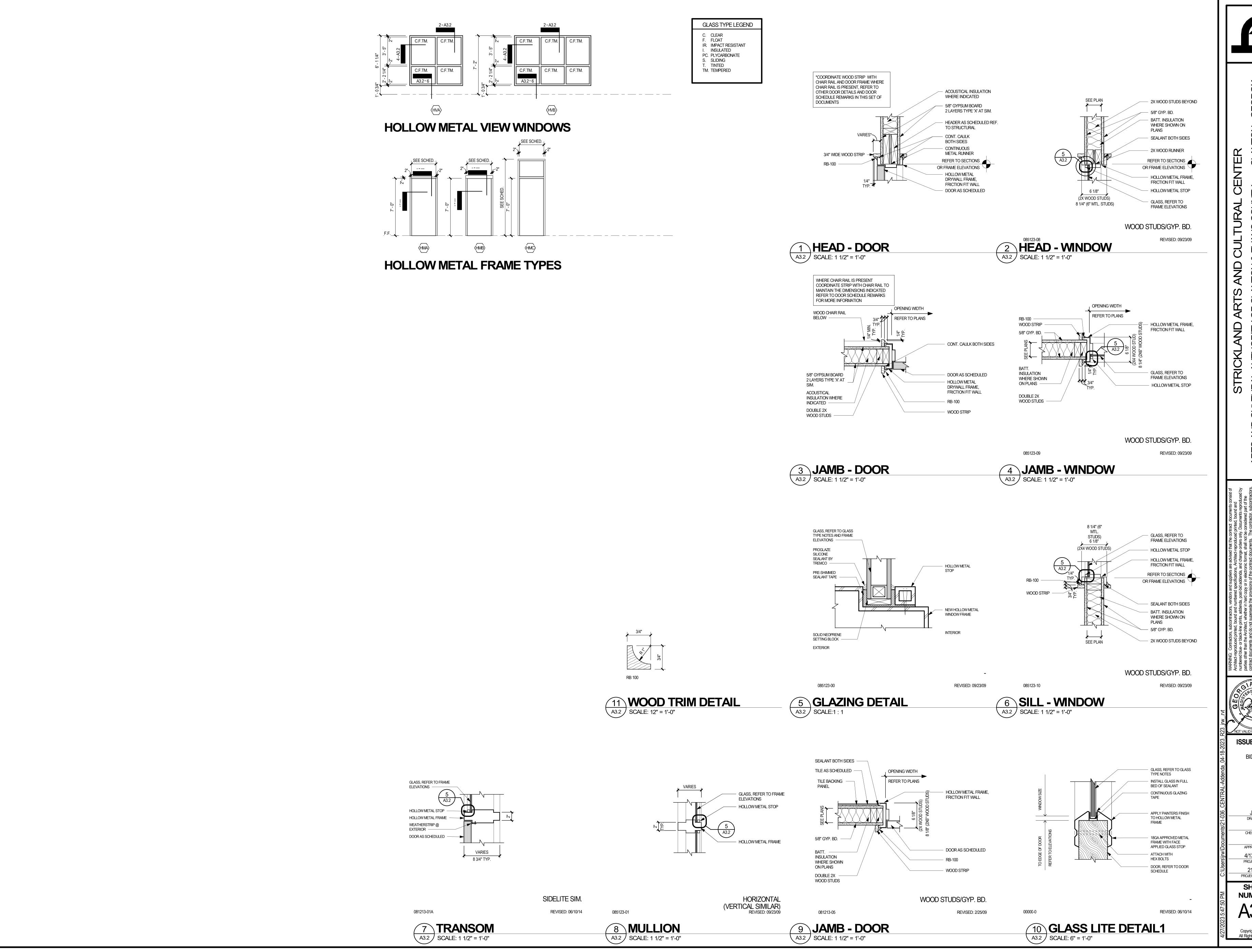
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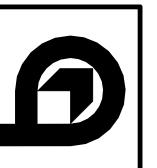
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- b. EXTERIOR TRANSOMS & SIDELIGHTS: 1" INSULATED, TEMPERED, TINTED.
- c. EXTERIOR WINDOWS: 1" INSULATED, TINTED.
- INSTALL GLASS IN HOLLOW METAL FRAME IN ACCORDANCE WITH DETAIL # 5/A3.2.





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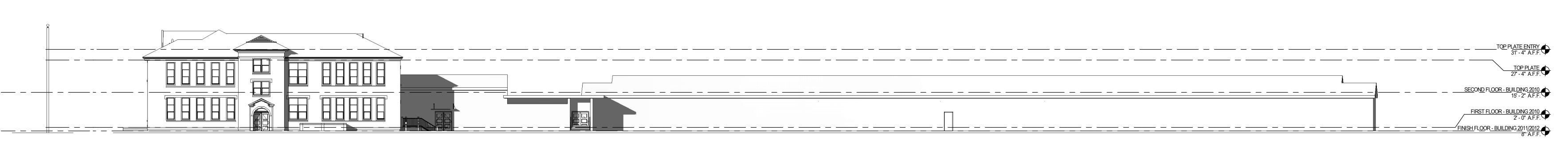
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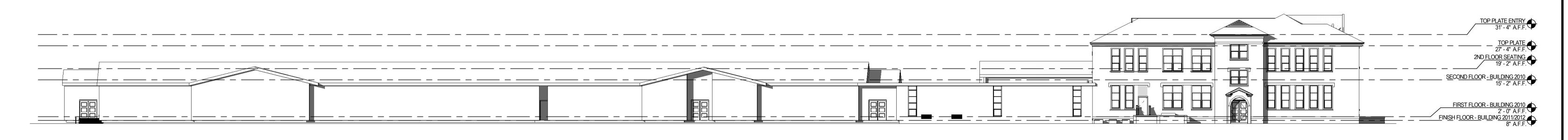




2 SOUTH COMPOSITE ELEVATION
SCALE: 1/16" = 1'-0"

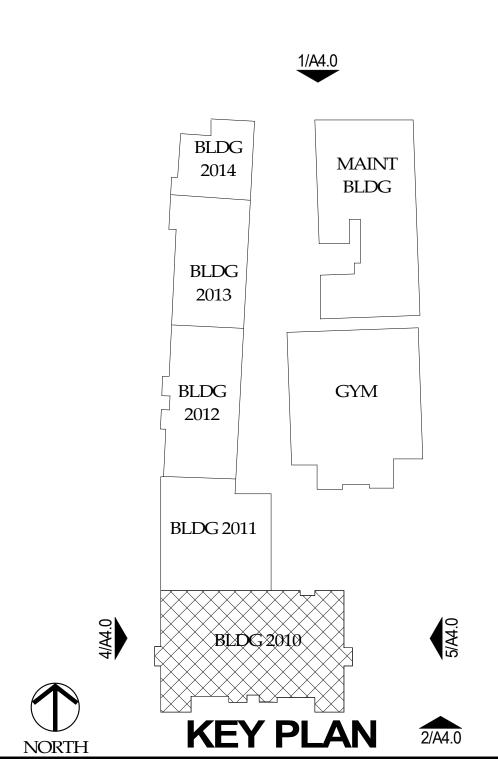


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SCALE: 1/16" = 1'-0"

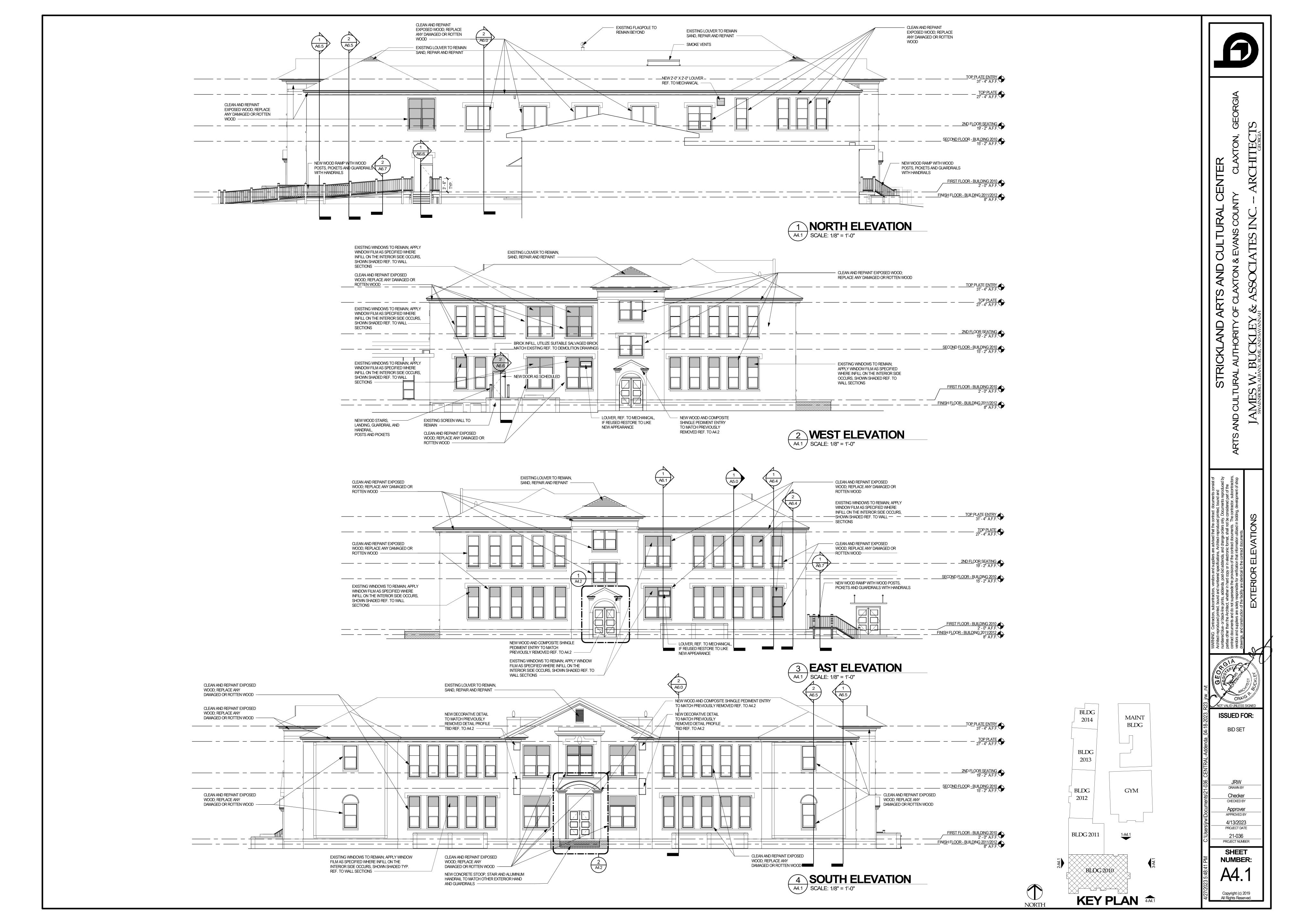


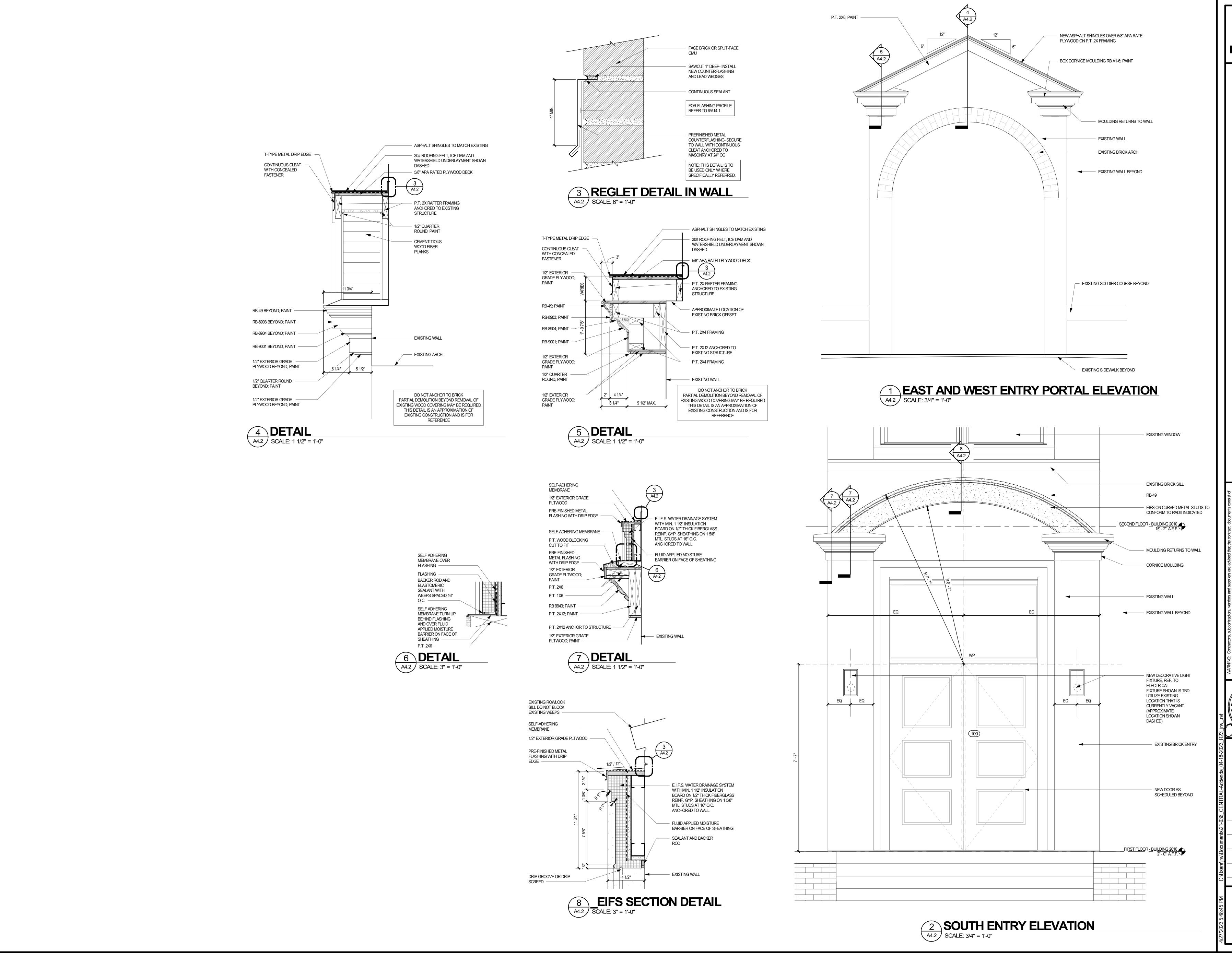
WEST COMPOSITE ELEVATION

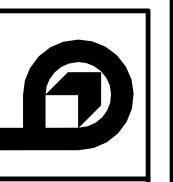
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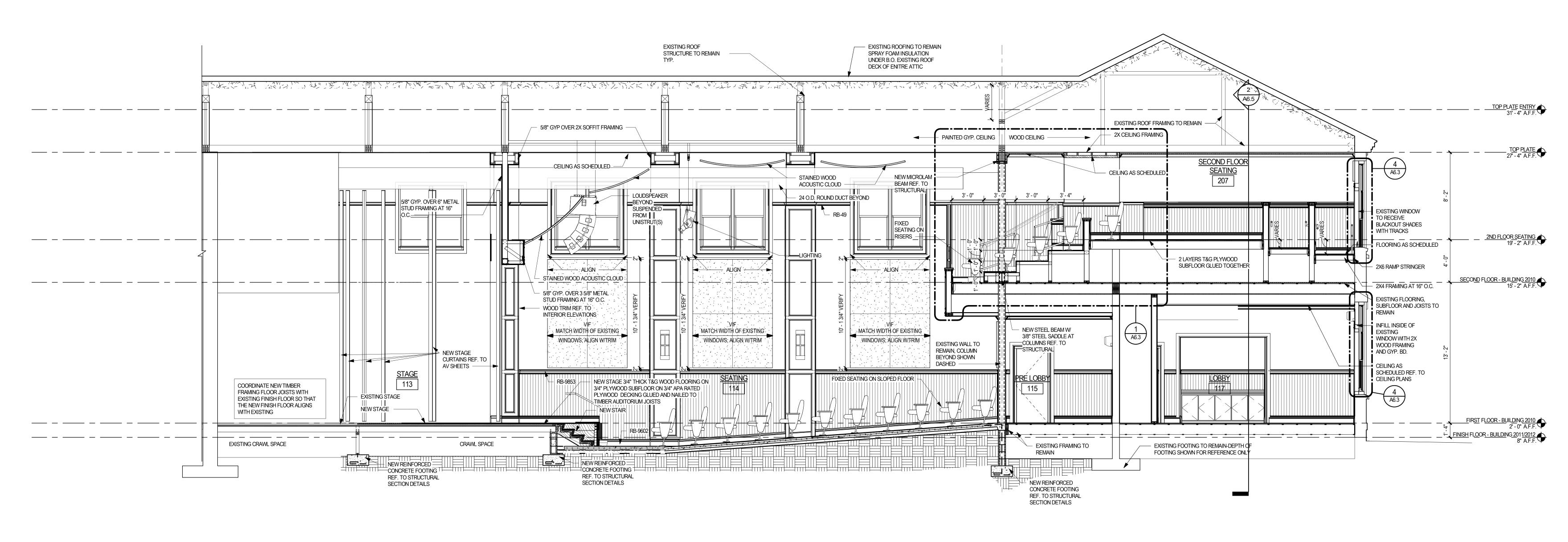


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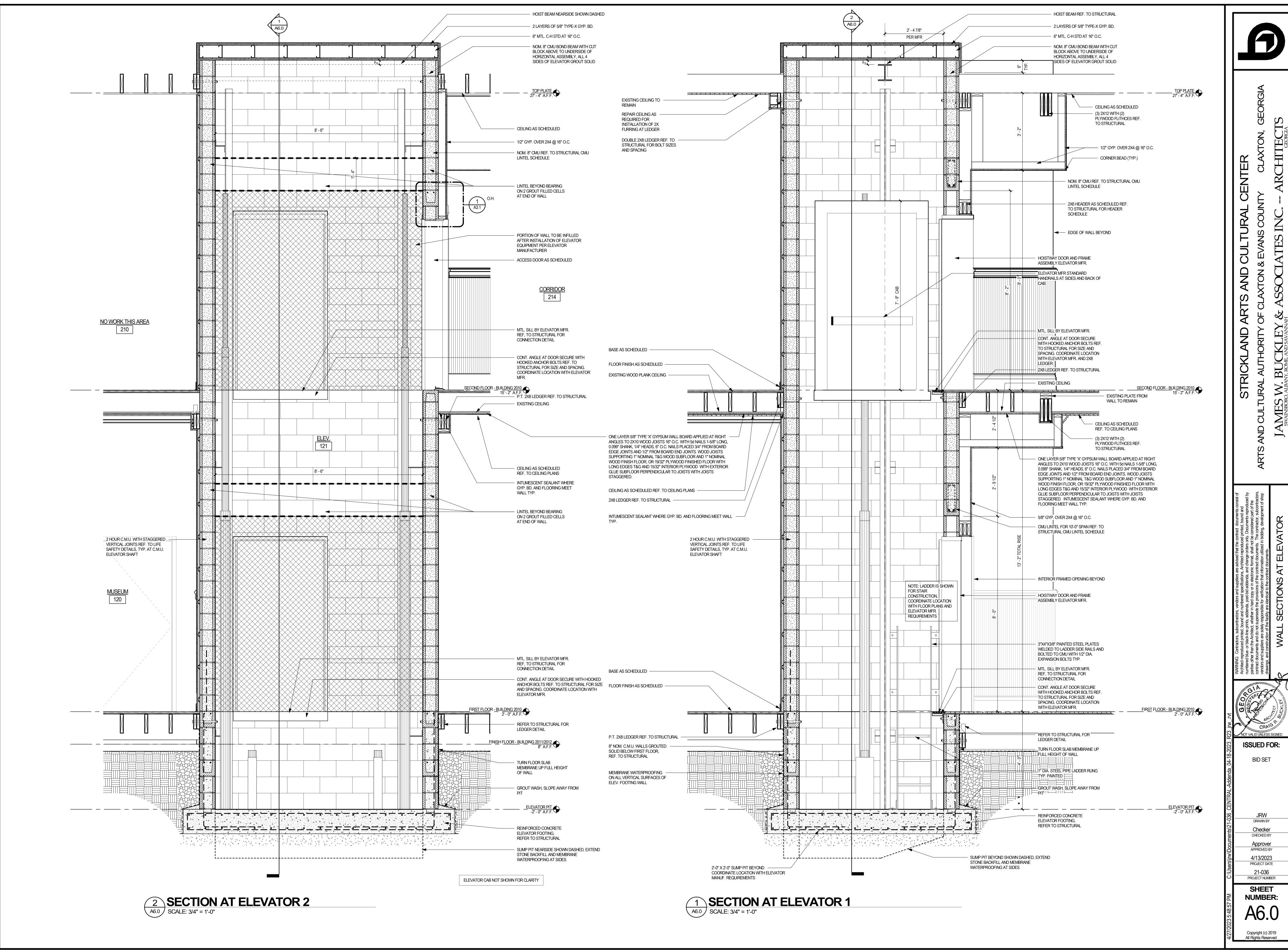
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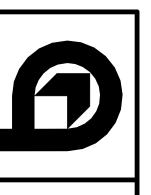
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WALL SECTION AT LOBBY AND SECOND

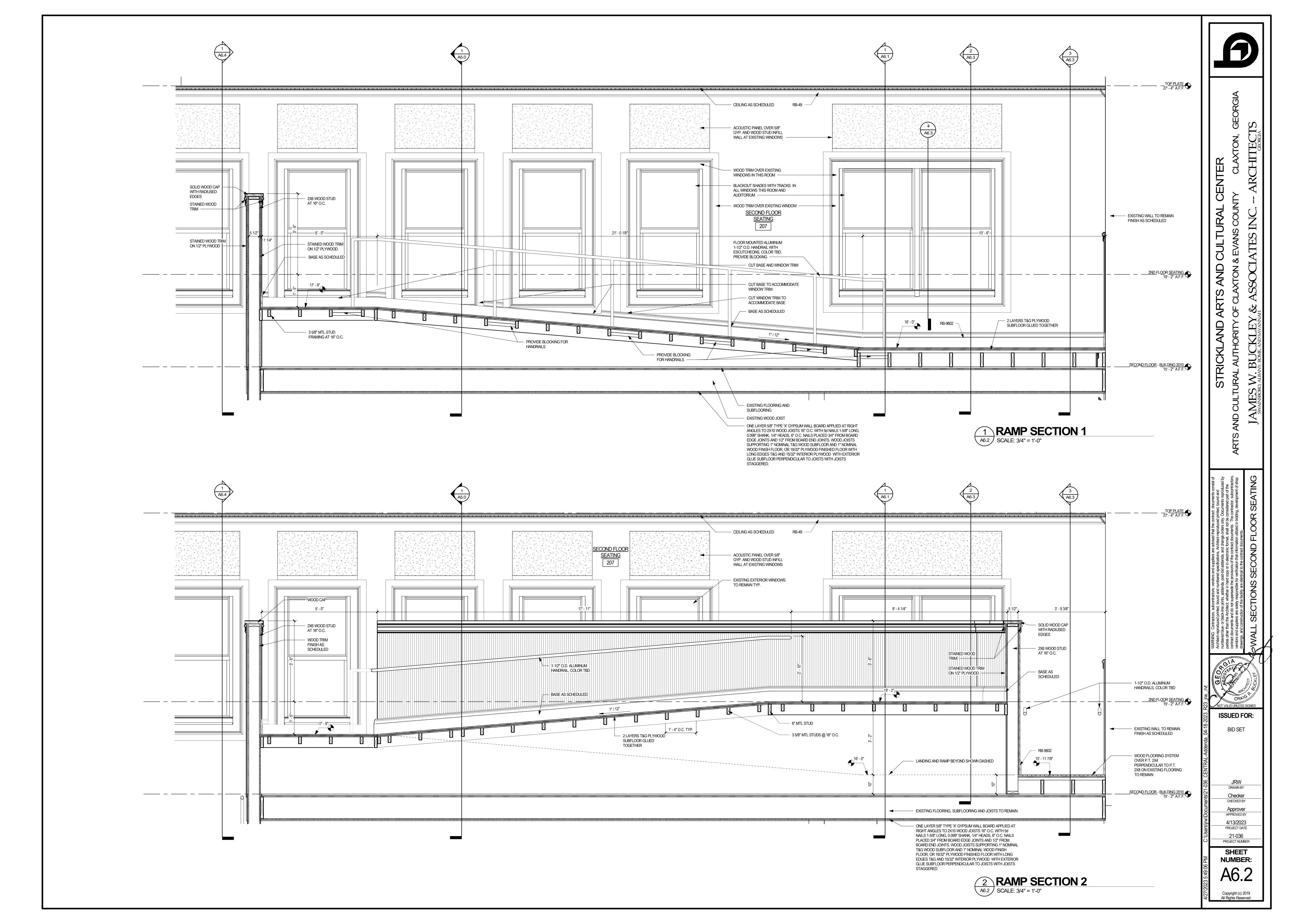
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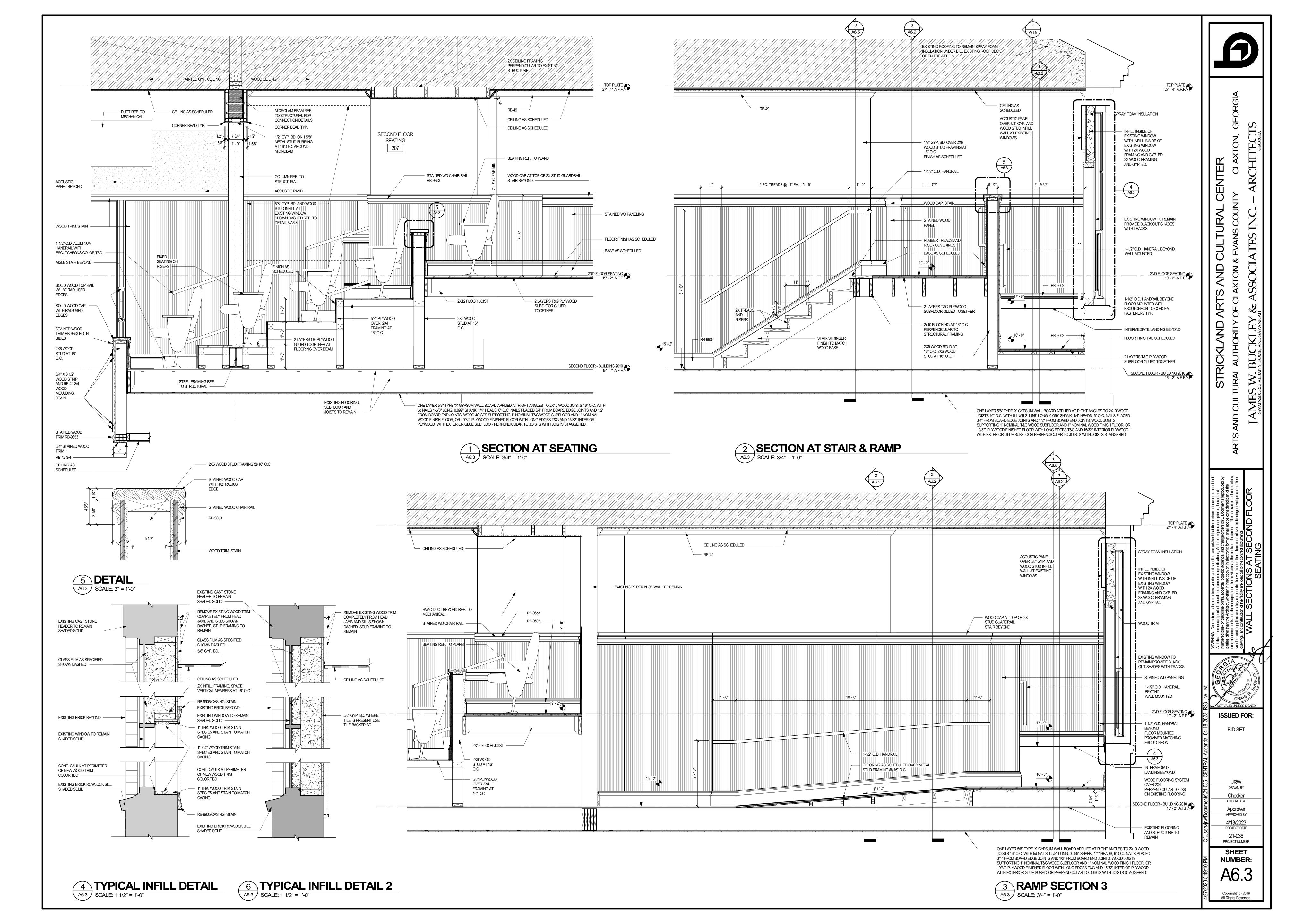
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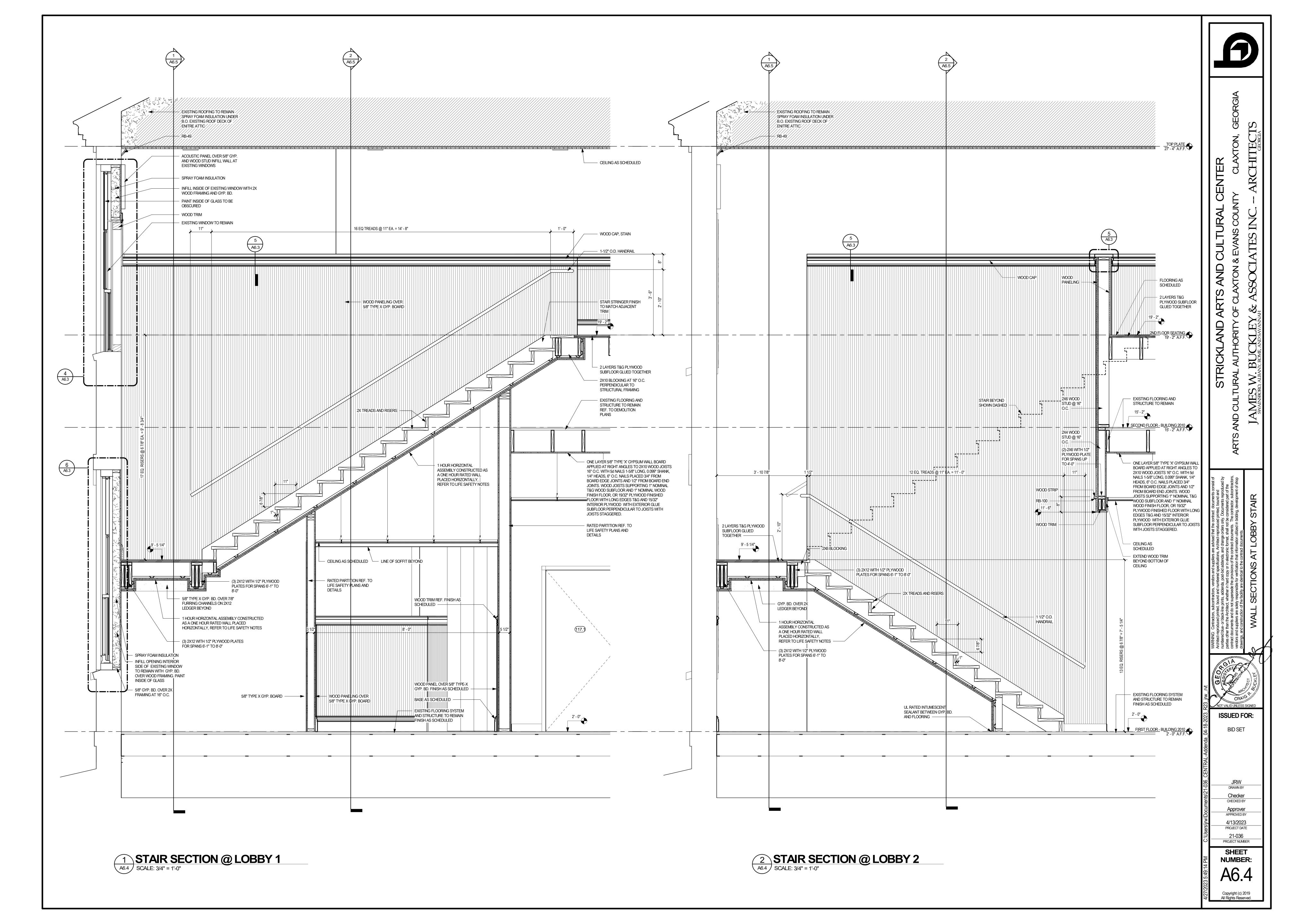
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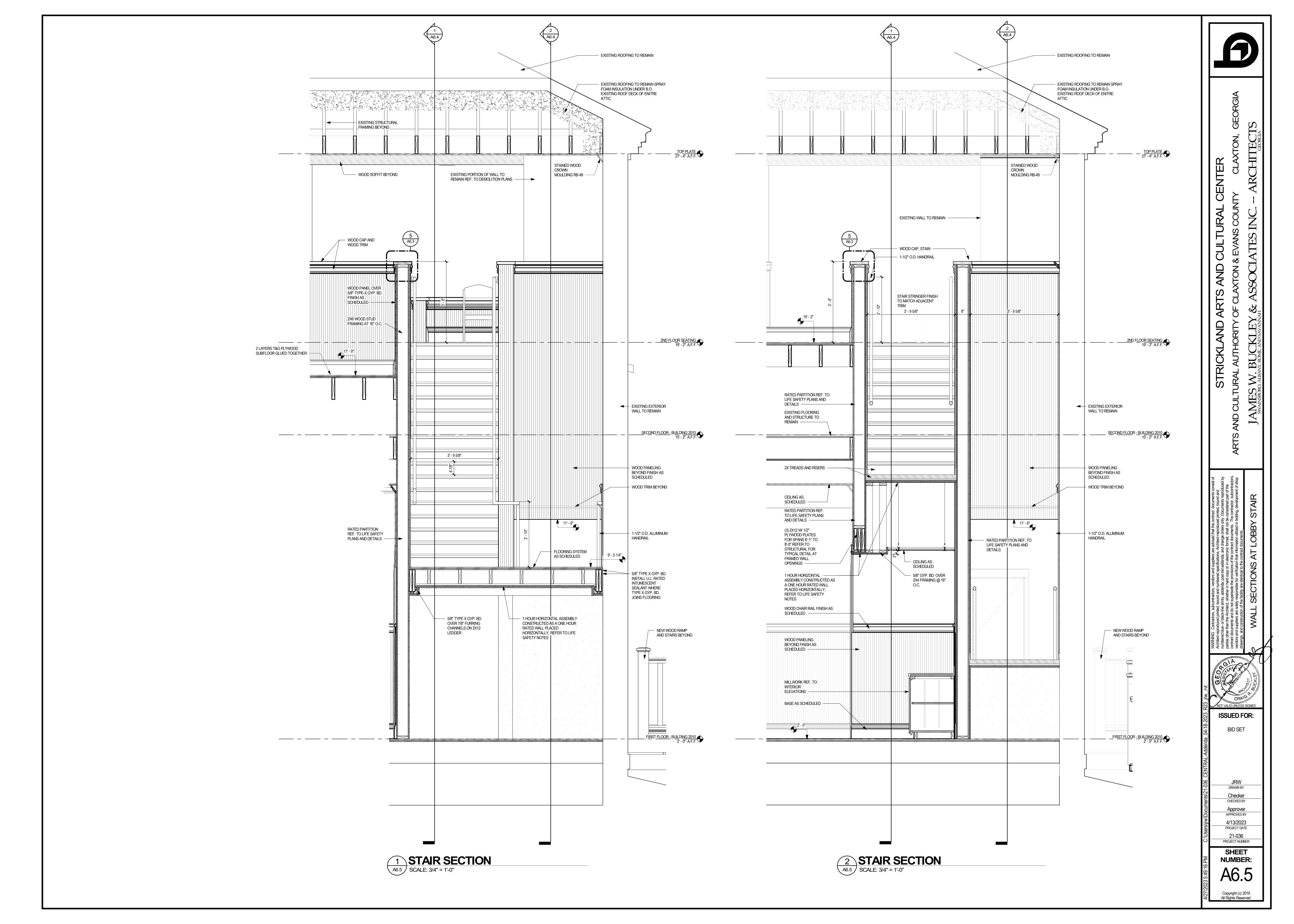
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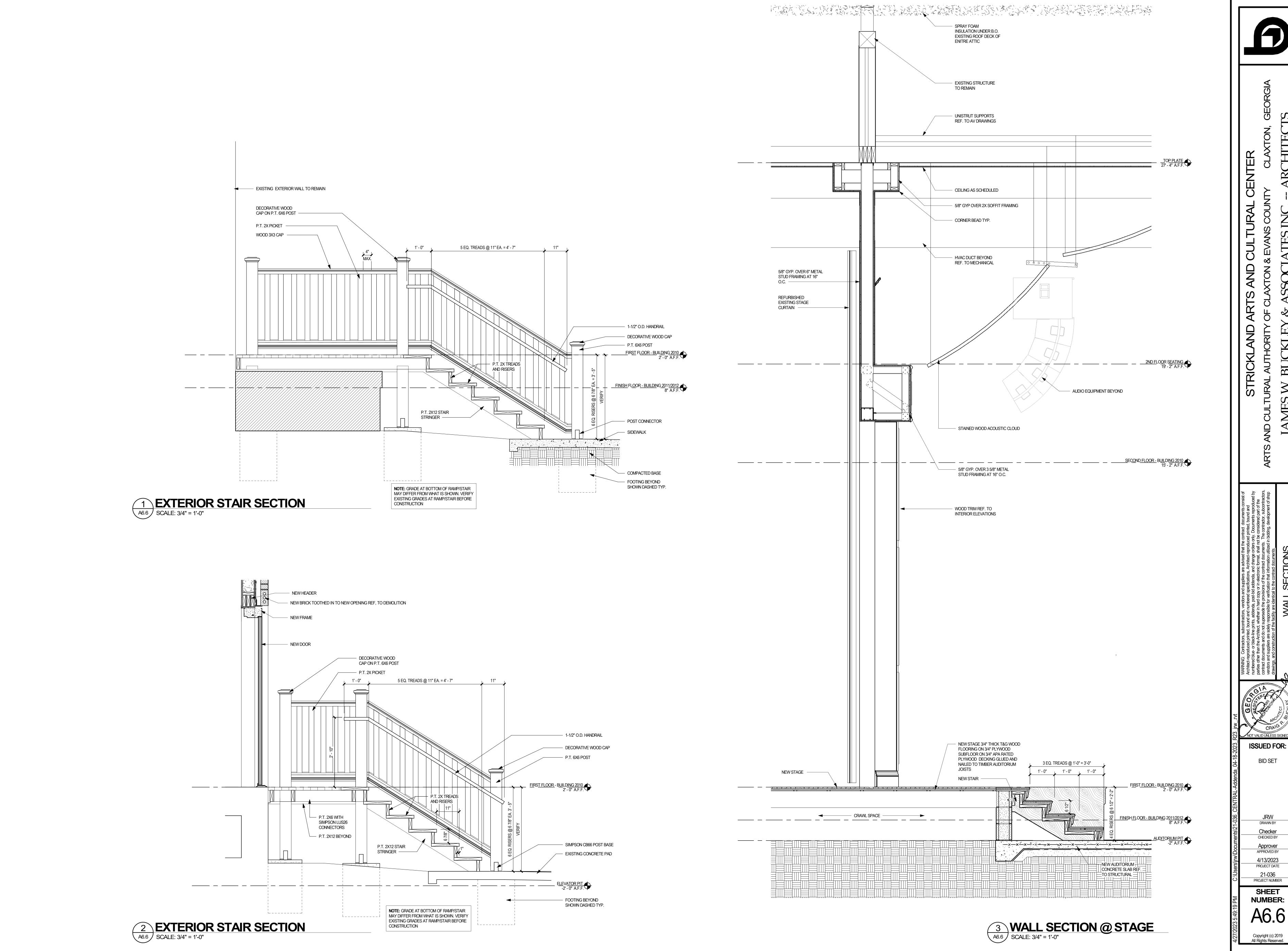
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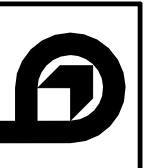










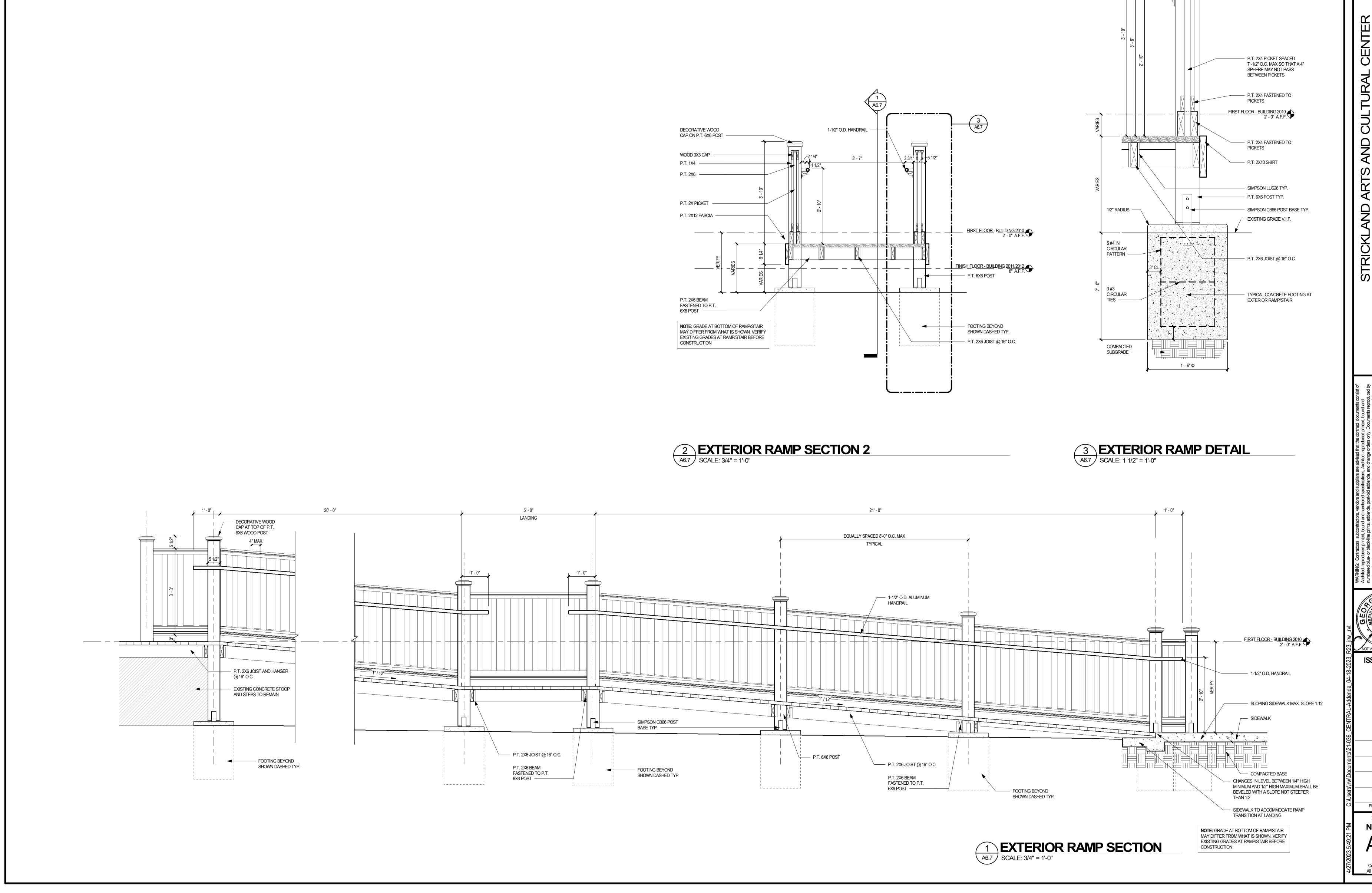


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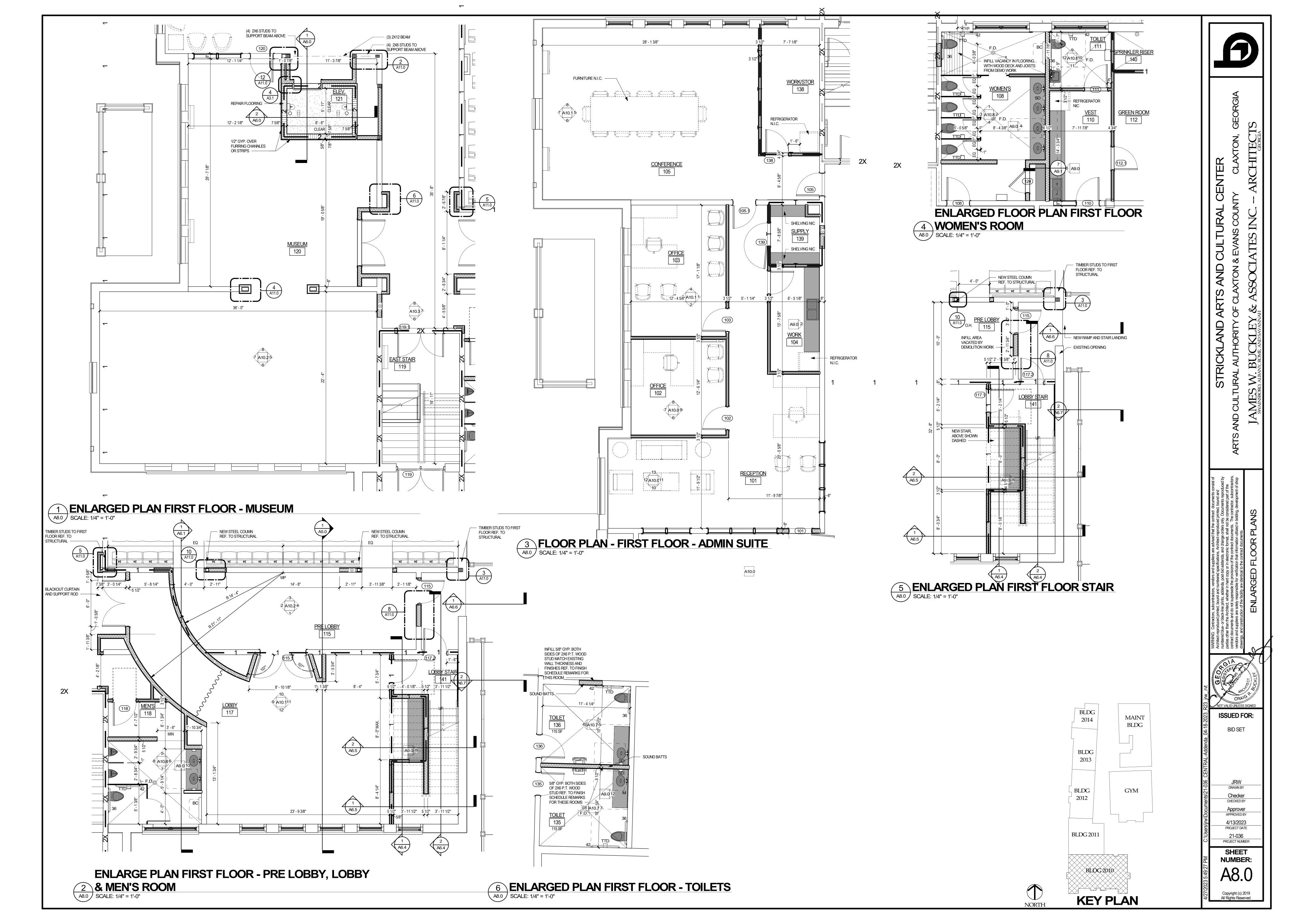
DECORATIVE CAP FOR 6X6
 TIMBER POST

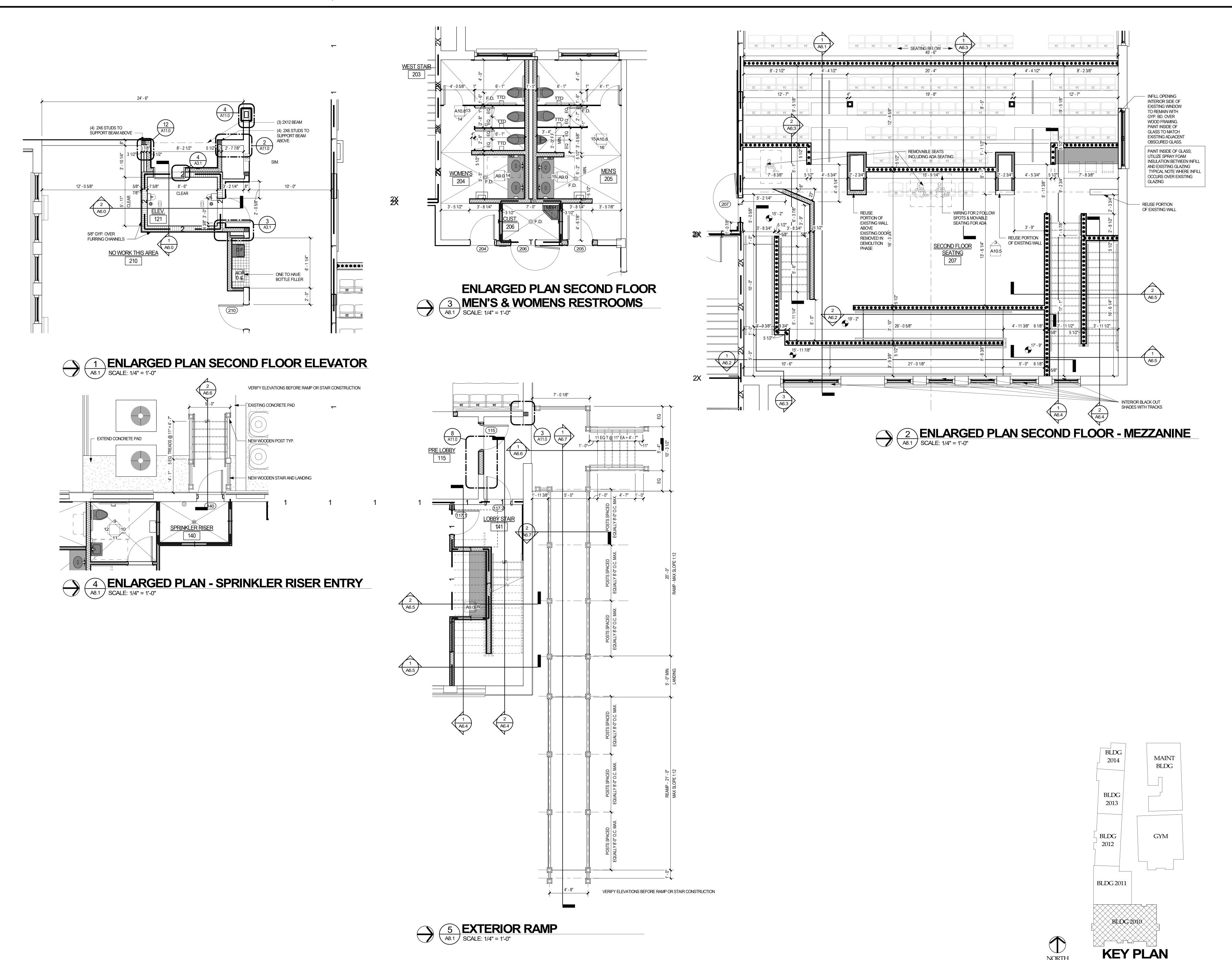
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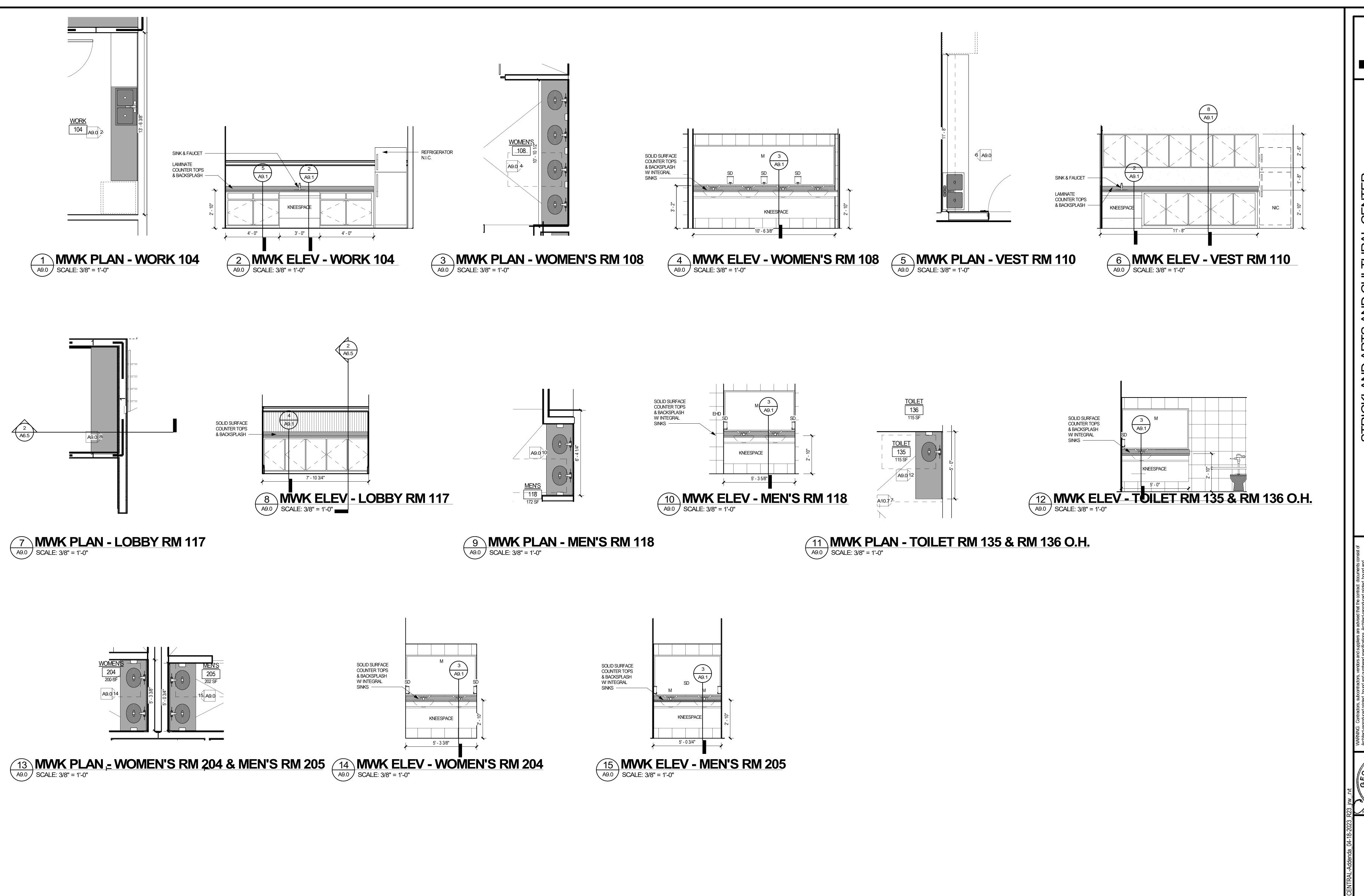
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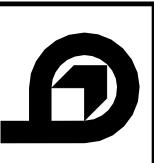
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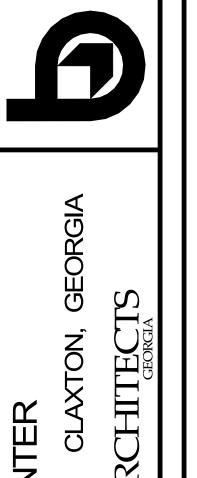
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2 MWK ELEV - DRESSING RM A

SCALE: 3/8" = 1'-0"

LIGHT FIXTURES —

MIRROR -

LAMINATE
COUNTERTOP &
BACKSPLASH

LIGHT FIXTURES — OUTLETS < MIRROR — LAMINATE COUNTERTOP & BACKSPLASH —— CABINET W/ DRAWERS — KNEESPACE KNEESPACE KNEESPACE KNEESPACE 1'-0" 3'-19/16" 1'-0" 3'-19/16" 1'-0" 3'-19/16" 1'-0" 3'-19/16" 1'-0" 3 MWK ELEV - DRESSING RM B
A9.0A SCALE: 3/8" = 1'-0"

MWK PLAN - DRESSING RM

SCALE: 3/8" = 1'-0"

LIGHT FIXTURES — OUTLETS -MIRROR -LAMINATE COUNTERTOP & BACKSPLASH — KNEESPACE KNEESPACE KNEESPACE 1'-0" 3'-011/16" 1'-0" 3'-011/16" 1'-0" 3'-011/16" 1'-0" 3'-011/16" 1'-0" 3' - 0 11/16" 1' - 0" 3' - 0 11/16" 1' - 0" 4 MWK ELEV - DRESSING RM C
A9.0A SCALE: 3/8" = 1'-0"

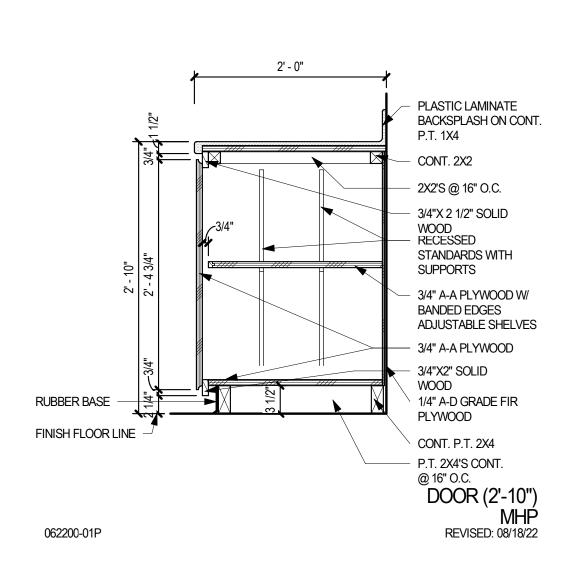
KNEESPACE

KNEESPACE

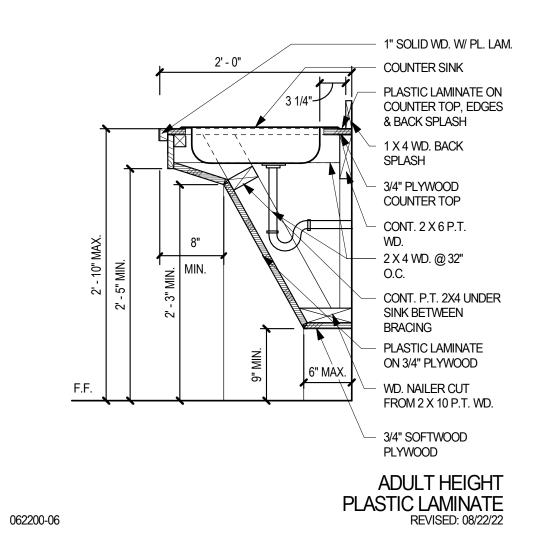
**BID SET** 

**NUMBER:** 

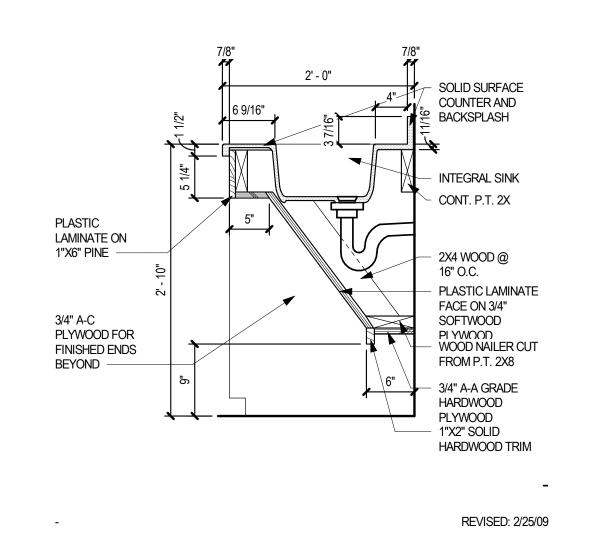
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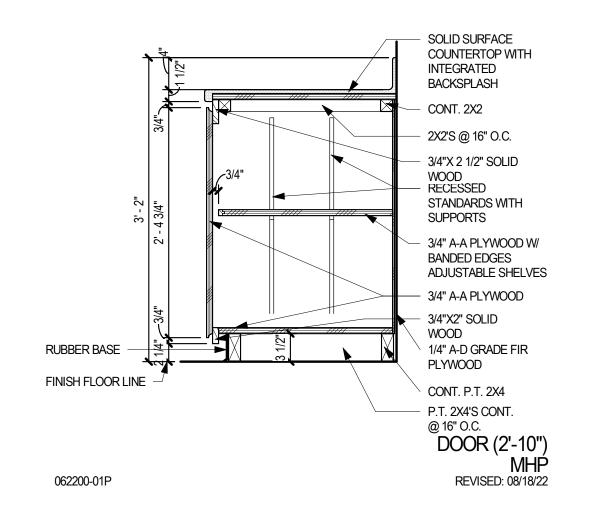






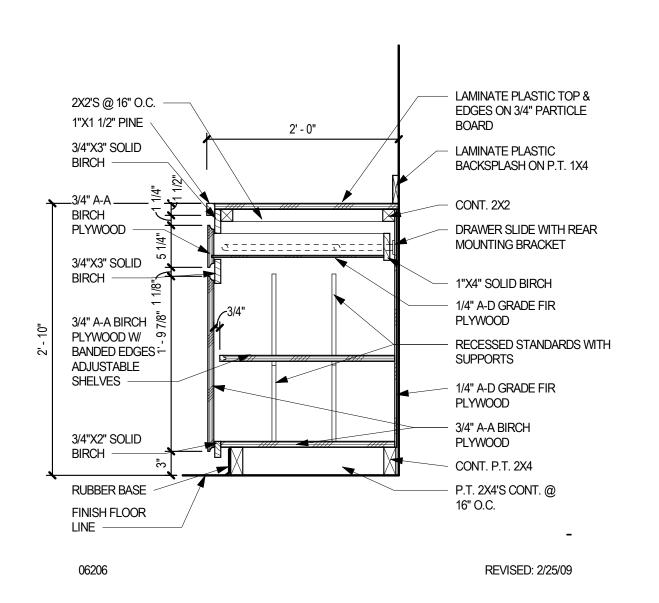




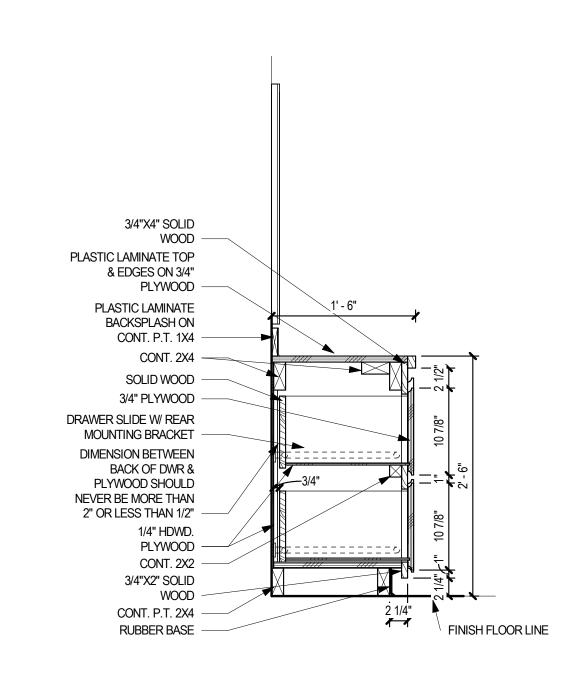


4 BASE CABINET SOLID SURFACE

A9.1 SCALE: 1" = 1'-0"

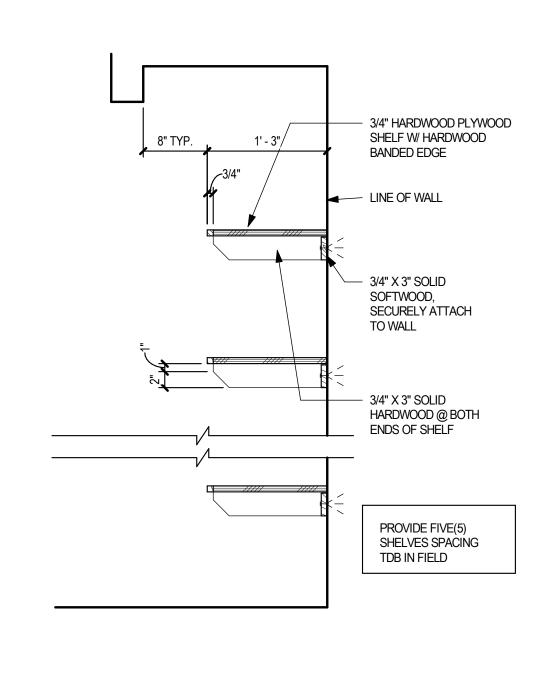




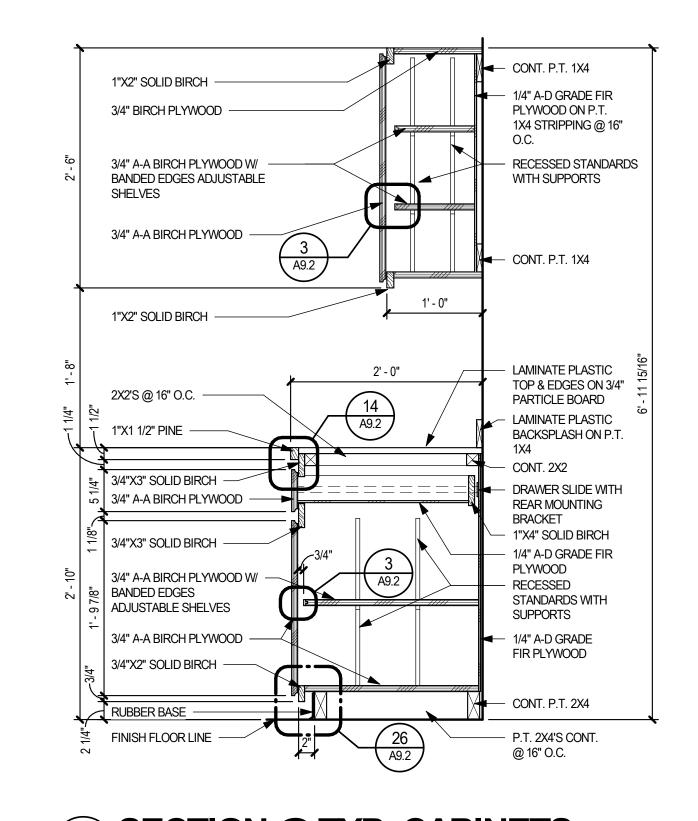


6
A9.1 SCALE: 1" = 1'-0"

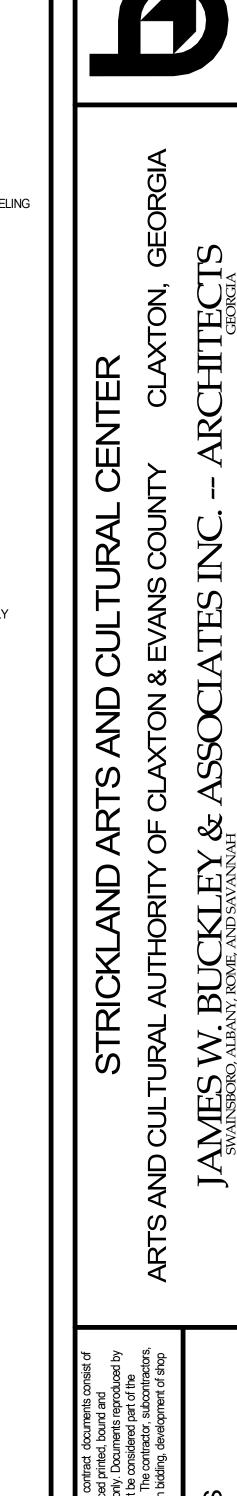
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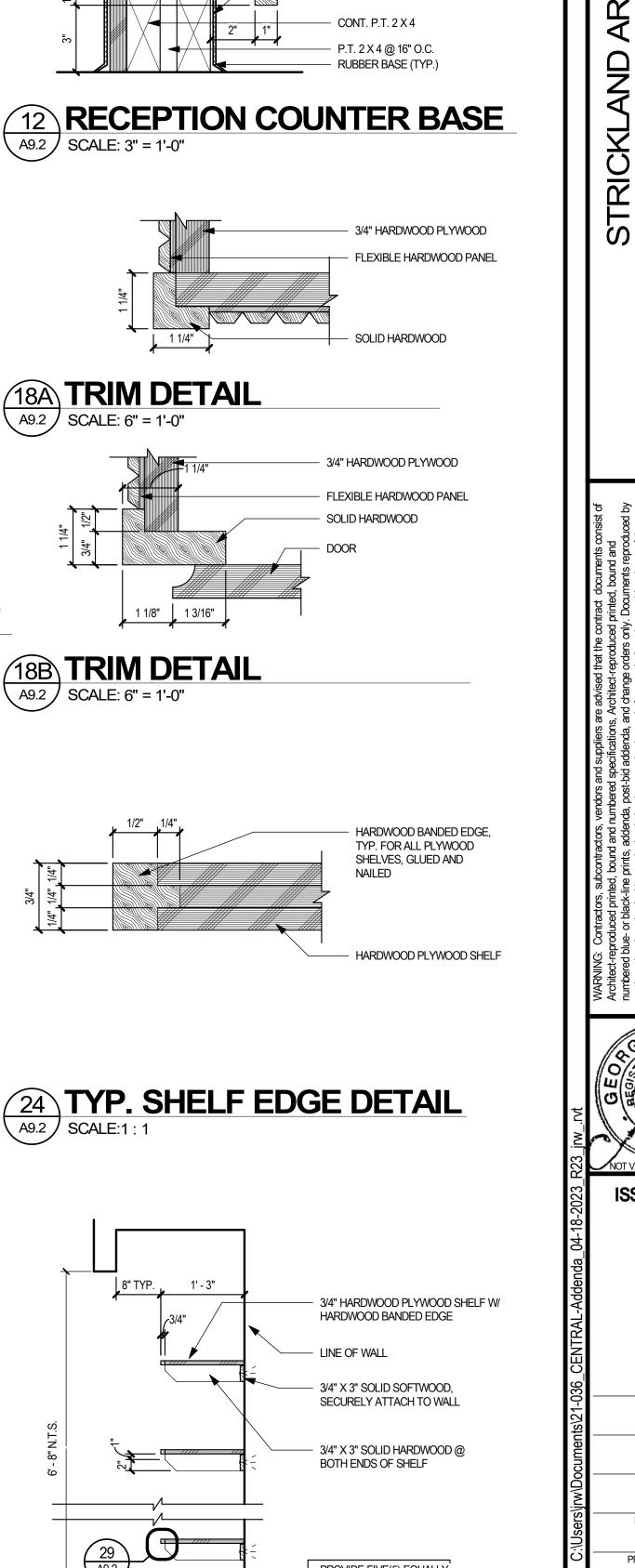


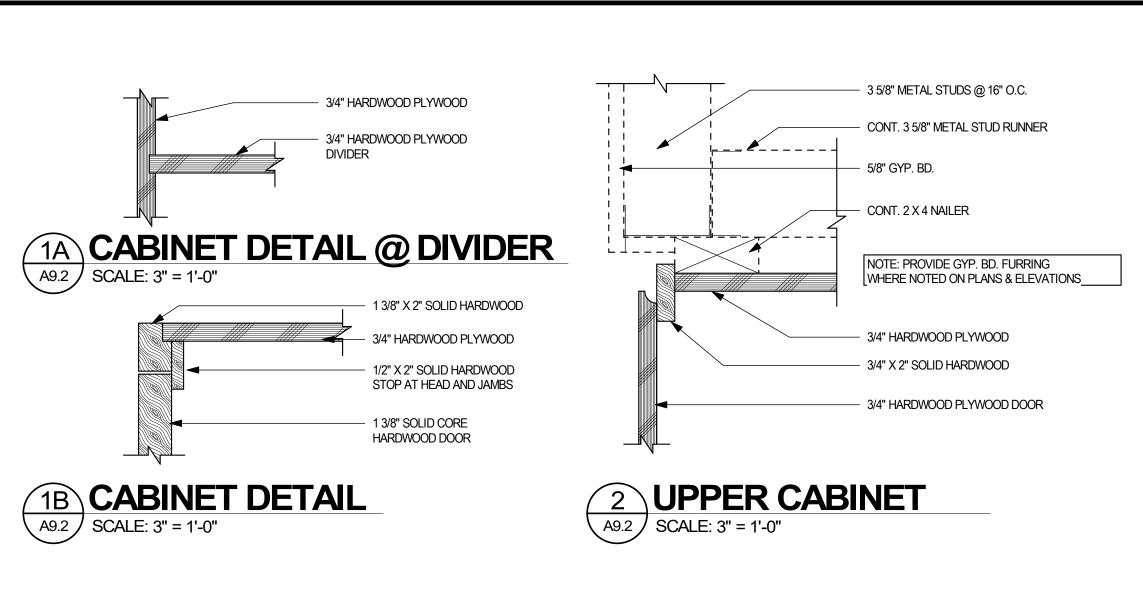


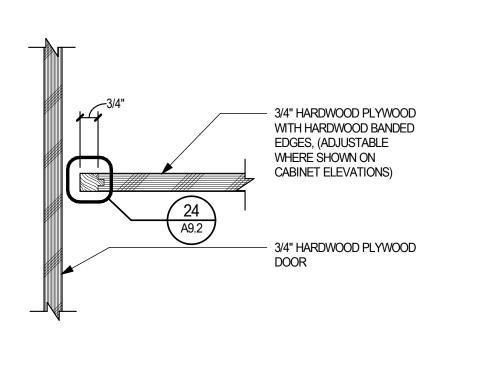


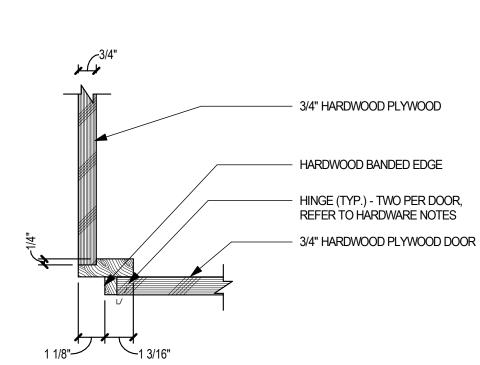
8 SECTION @ TYP. CABINETS
SCALE: 1" = 1'-0"

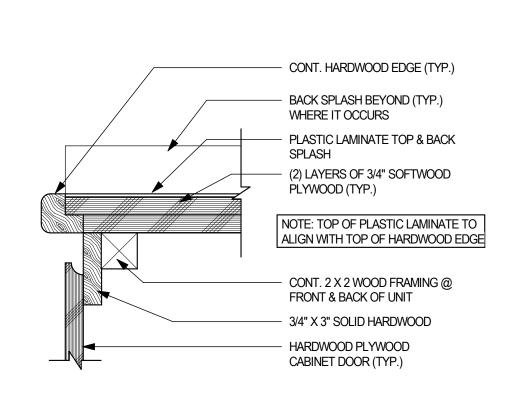


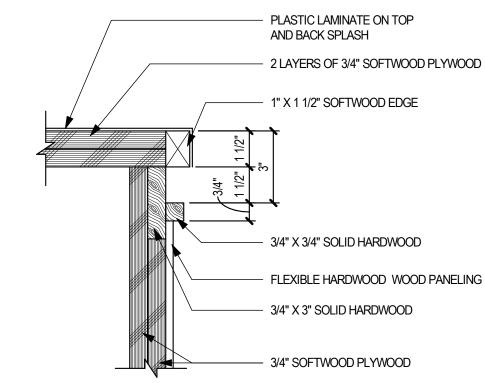












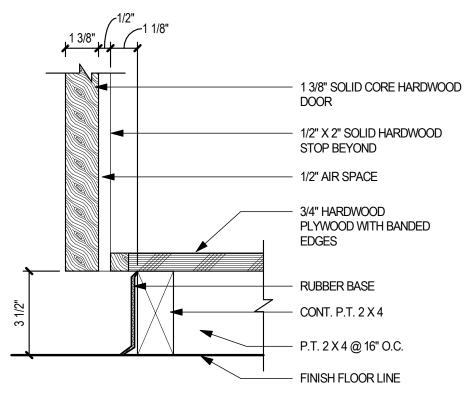












3/4" HARDWOOD PLYWOOD

3/4" HARDWOOD PLYWOOD

1 3/8" X 2" SOLID HARDWOOD

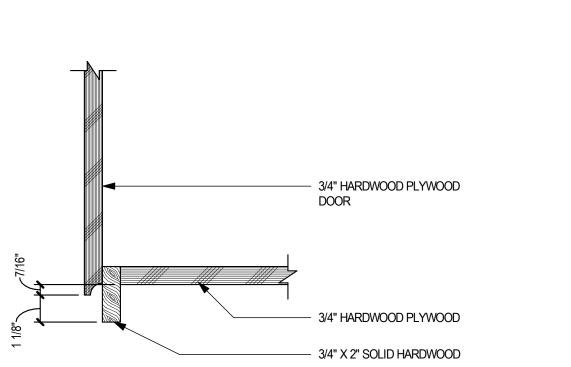
4" HARDWOOD PLYWOOD

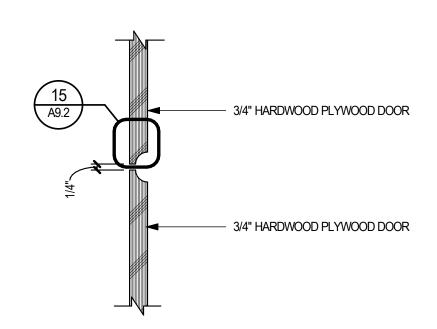
1/2" X 2" SOLID HARDWOOD

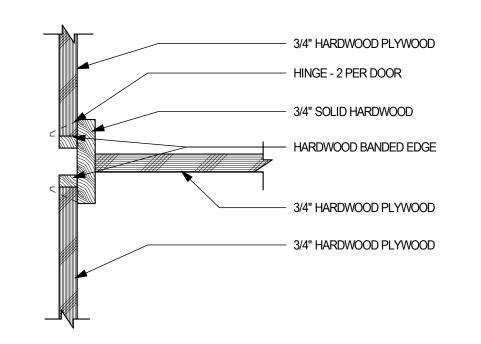
STOP AT HEAD AND JAMBS

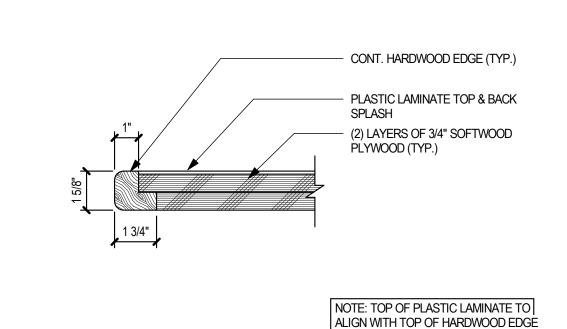
13/8" SOLID CORE HARDWOOD DOOR

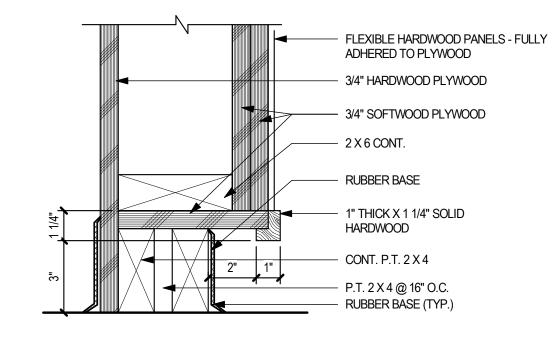
DIVIDER











7 CABINET BASE A9.2 SCALE: 3" = 1'-0"

1B CABINET DETAIL

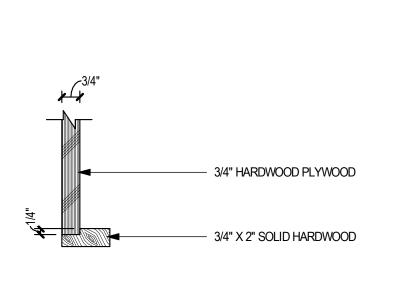
A9.2 SCALE: 3" = 1'-0"

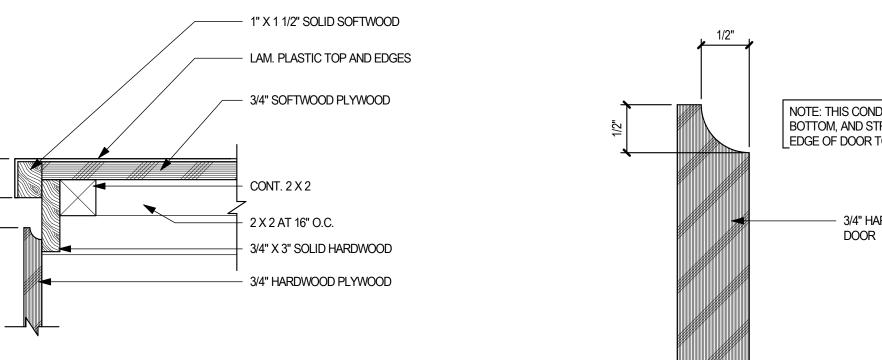










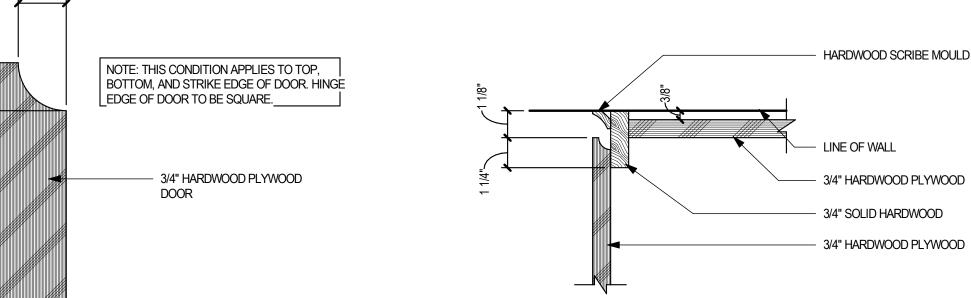


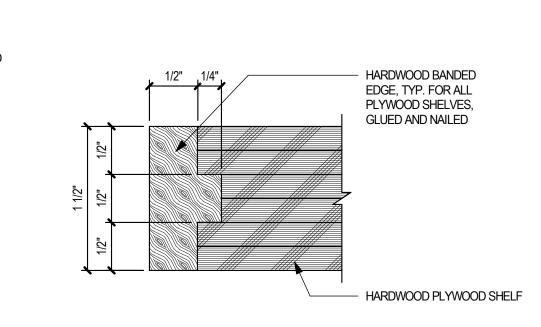
DETAIL AT DOOR AND DRAWER

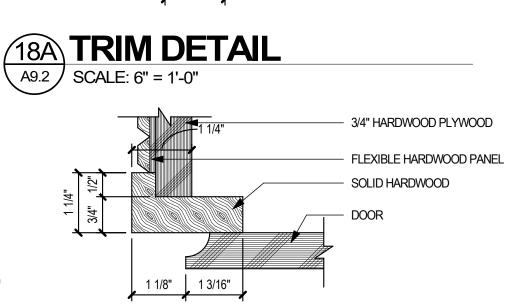
SCALE: 3" = 1'-0"

DRAWER DETAIL

A9.2 SCALE: 3" = 1'-0"







13 MISC. SHELVING DETAIL A9.2 SCALE: 3" = 1'-0"

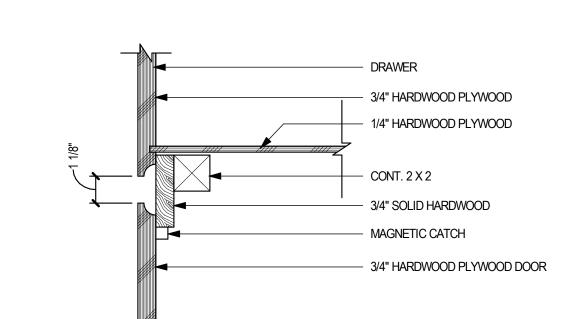
3/4" X 2" SOLID HARDWOOD

3/4" HARDWOOD PLYWOOD

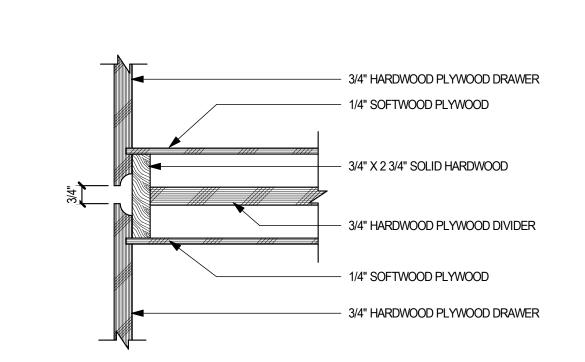
P.T. BLOCKING AS REQUIRED

AND BOTTOM

BOLT SHELVING UNITS TOGETHER WITH TWO 1/4" DIA. BOLTS AT TOP



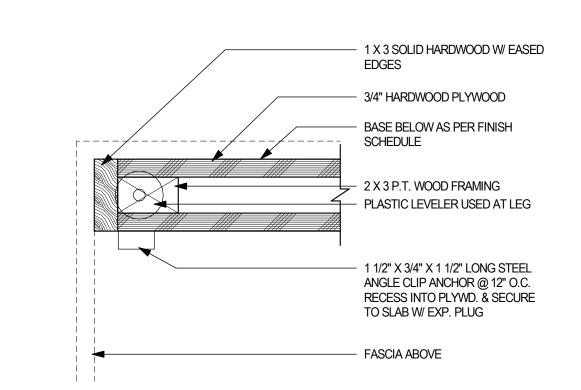


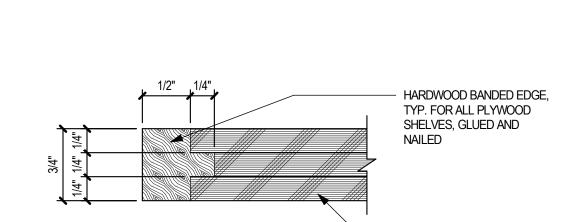


16 JAMB SECTION AT WALL

SCALE: 3" = 1'-0"







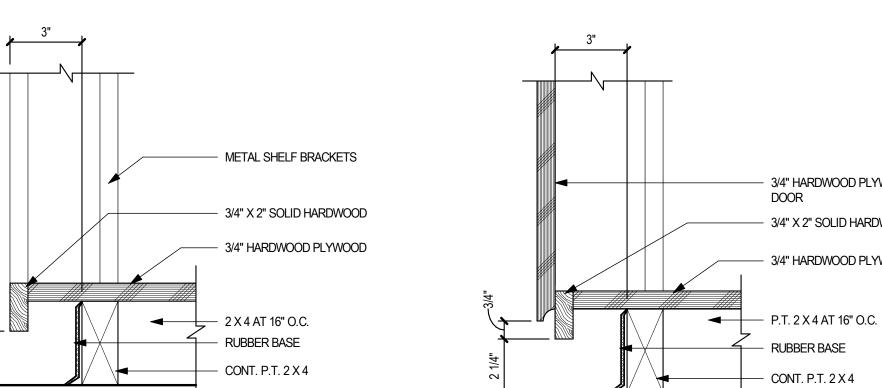
A9.2 | SCALE: 6" = 1'-0"

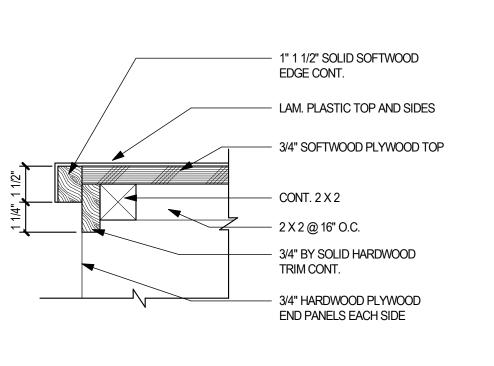
A9.2 | SCALE:1:1

19 MISC. SHELVING DETAIL
A9.2 SCALE: 3" = 1'-0"

BASE - MISC. SHELVING

SCALE: 3" = 1'-0"





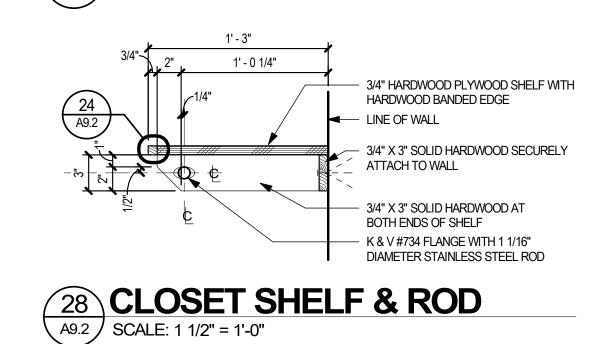
1/4" HARDWOOD PLYWOOD

CONT. 2 X 2 WOOD POST

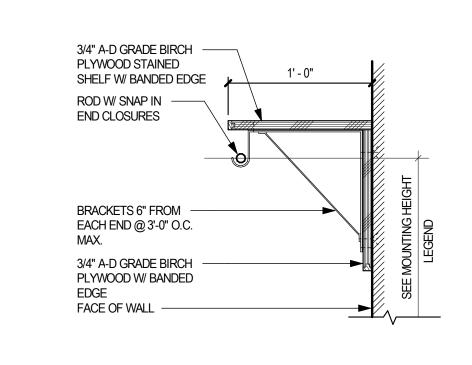
3/4" X 2" SOLID HARDWOOD

3/4" HARDWOOD PLYWOOD PANEL

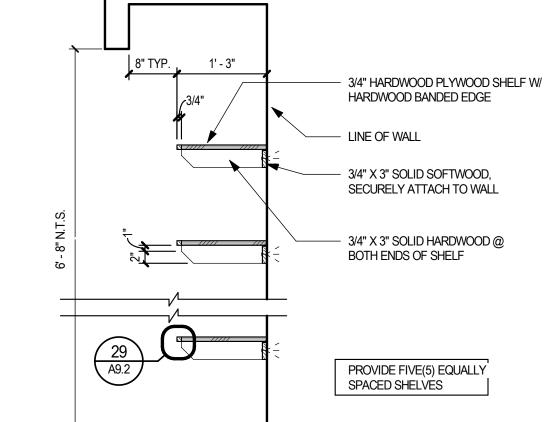
3/4" HARDWOOD PLYWOOD DRAWER



**PLAN SECTION AT DRAWERS** 



23 END PANEL DETAIL
A9.2 SCALE: 3" = 1'-0"



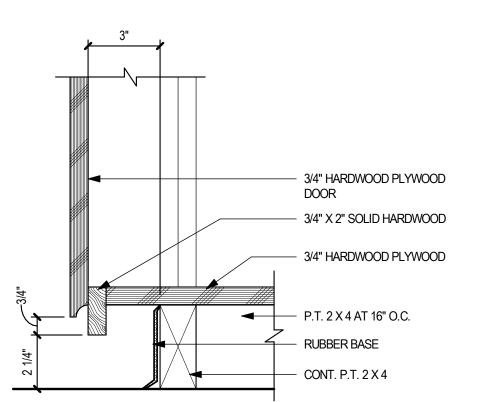


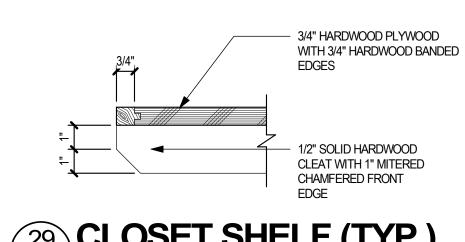










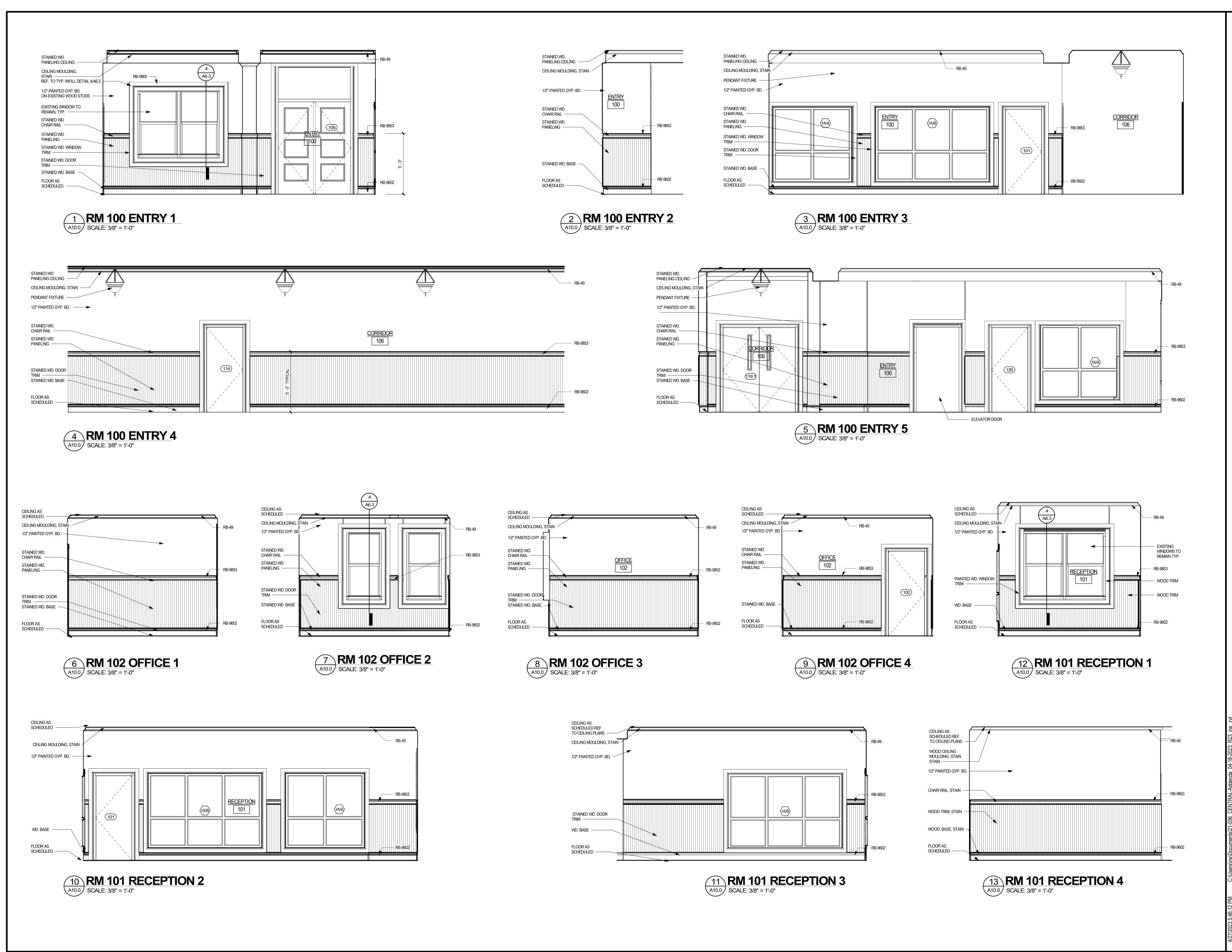


**ISSUED FOR:** 

**BID SET** Author DRAWN BY

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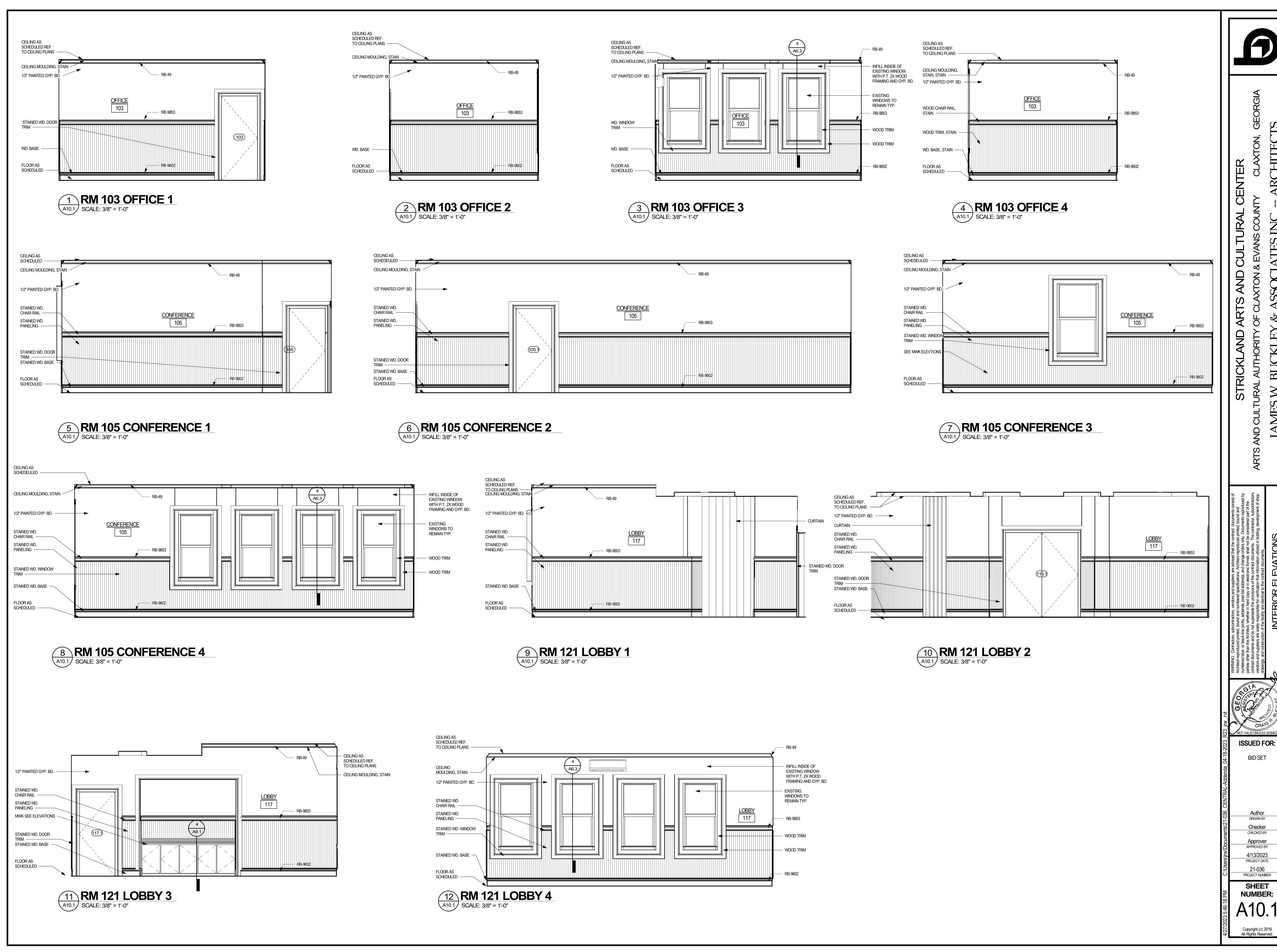
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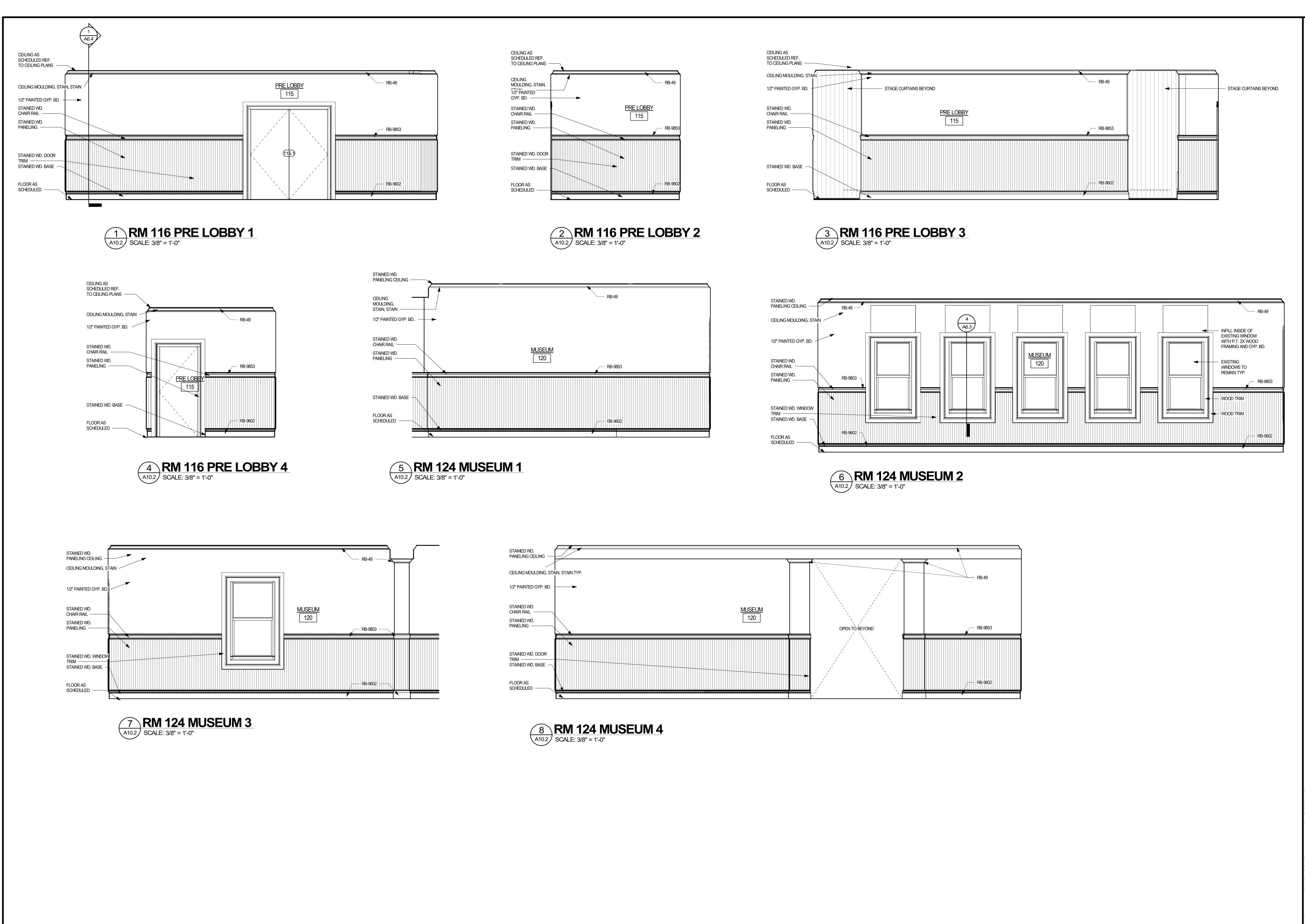
Author

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SHEET **NUMBER:** 

PROJECT NUMBER





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PROJECT DATE

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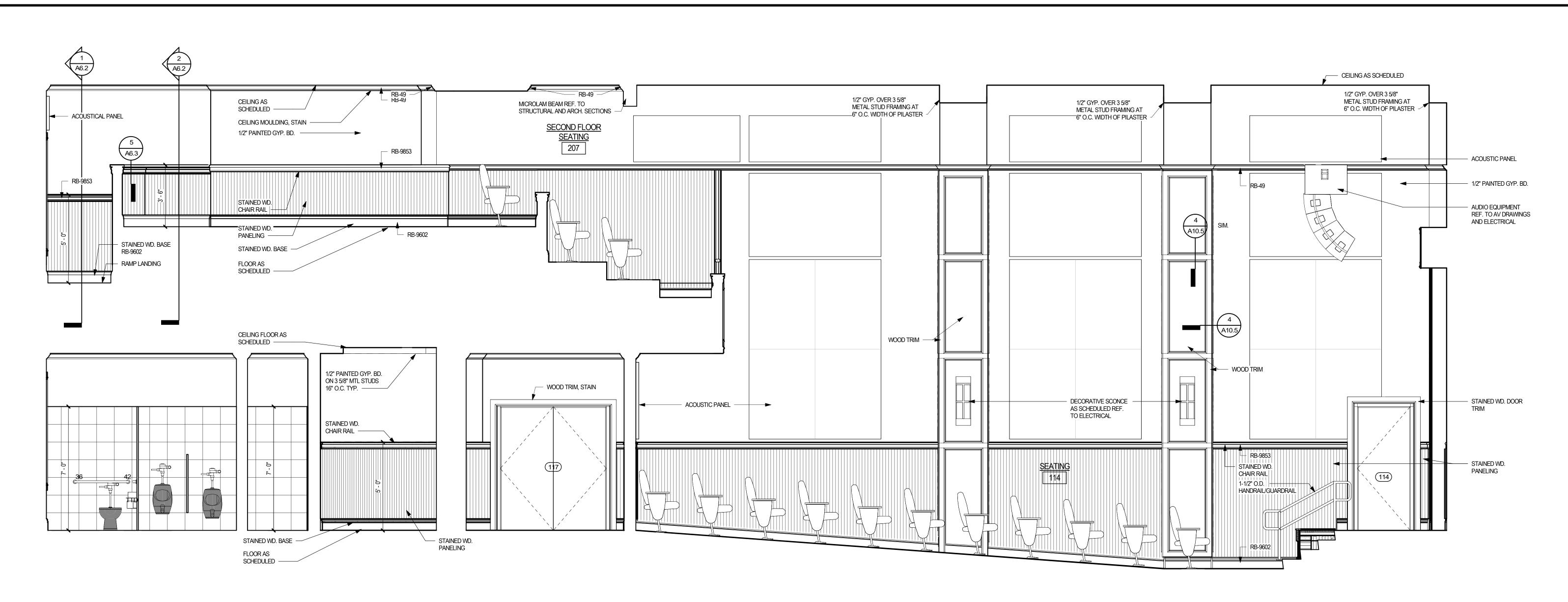
**ISSUED FOR: BID SET** 

Author DRAWN BY Checker CHECKED BY Approver APPROVED BY 4/13/2023

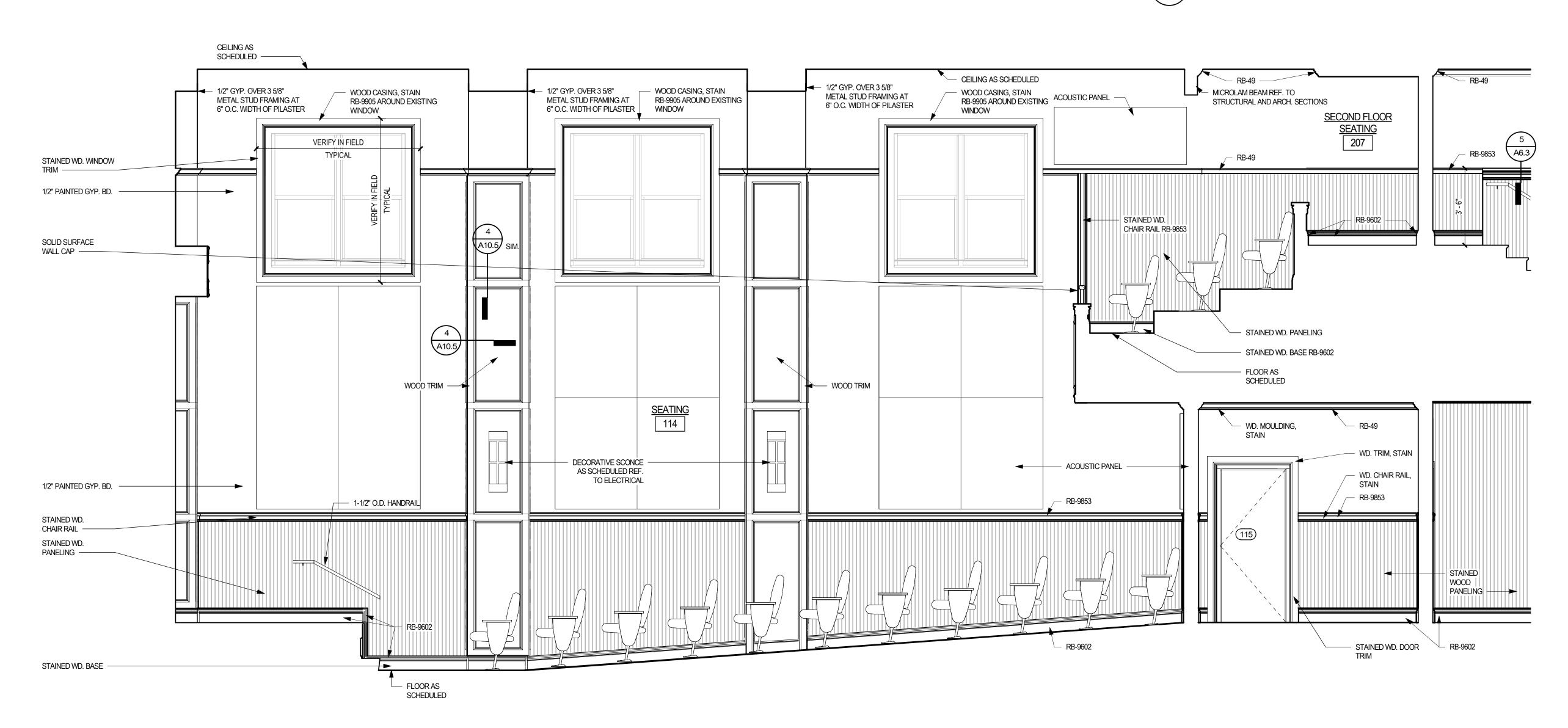
PROJECT NUMBER SHEET **NUMBER:** 

PROJECT DATE

21-036



## 1 RM 115 SEATING LOWER LEVEL(1) SCALE: 3/8" = 1'-0"



2 RM 115 SEATING LOWER LEVEL(3)
SCALE: 3/8" = 1'-0"

STRICKLAND ARTS AND CULTURAL CENTER SAND CULTURAL AUTHORITY OF CLAXTON & EVANS COUNTY CLAXTON, GEO!

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INTERIOR ELEVATIONS

NOT VALID UNLESS SIGNED

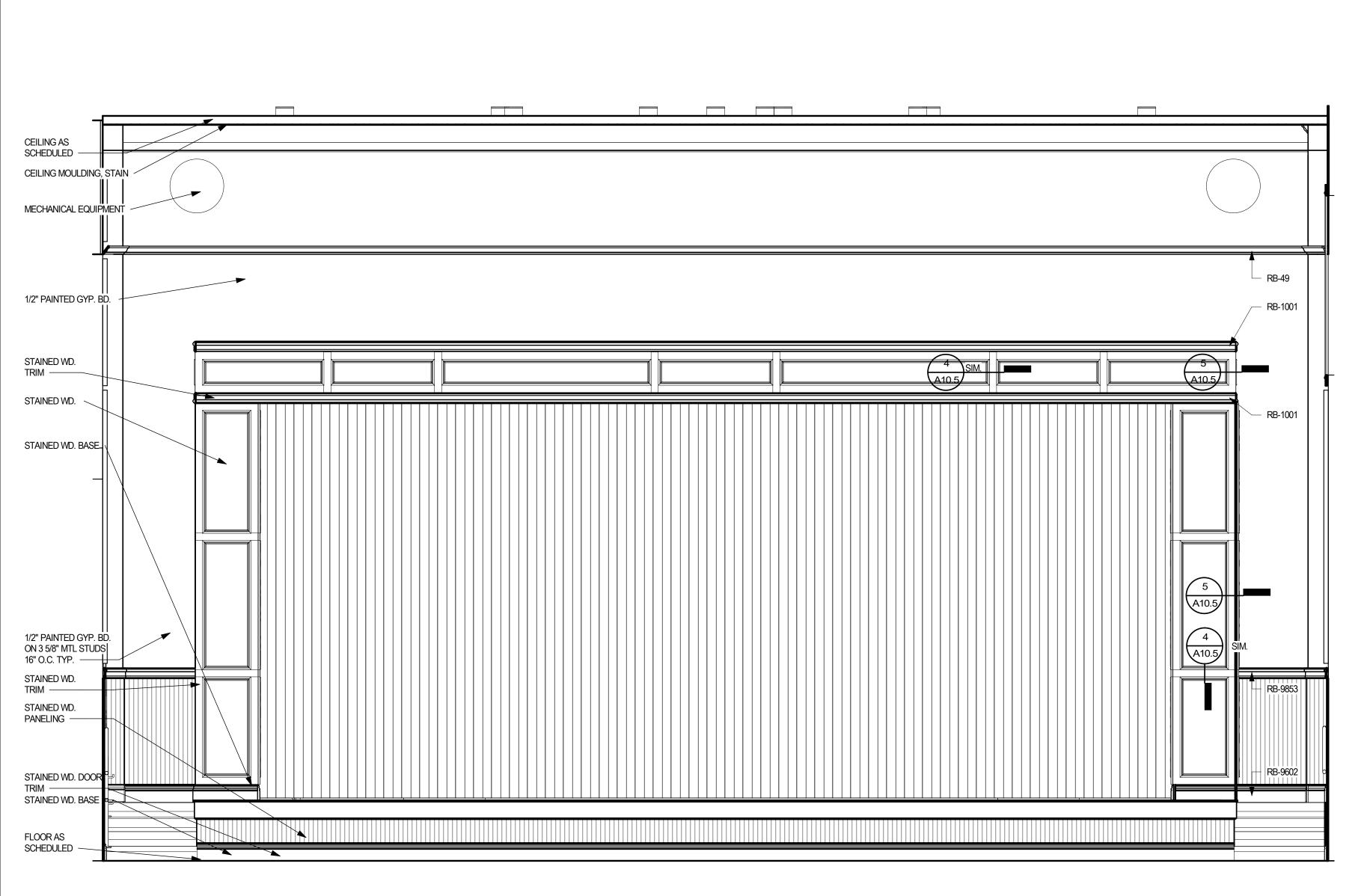
ISSUED FOR:

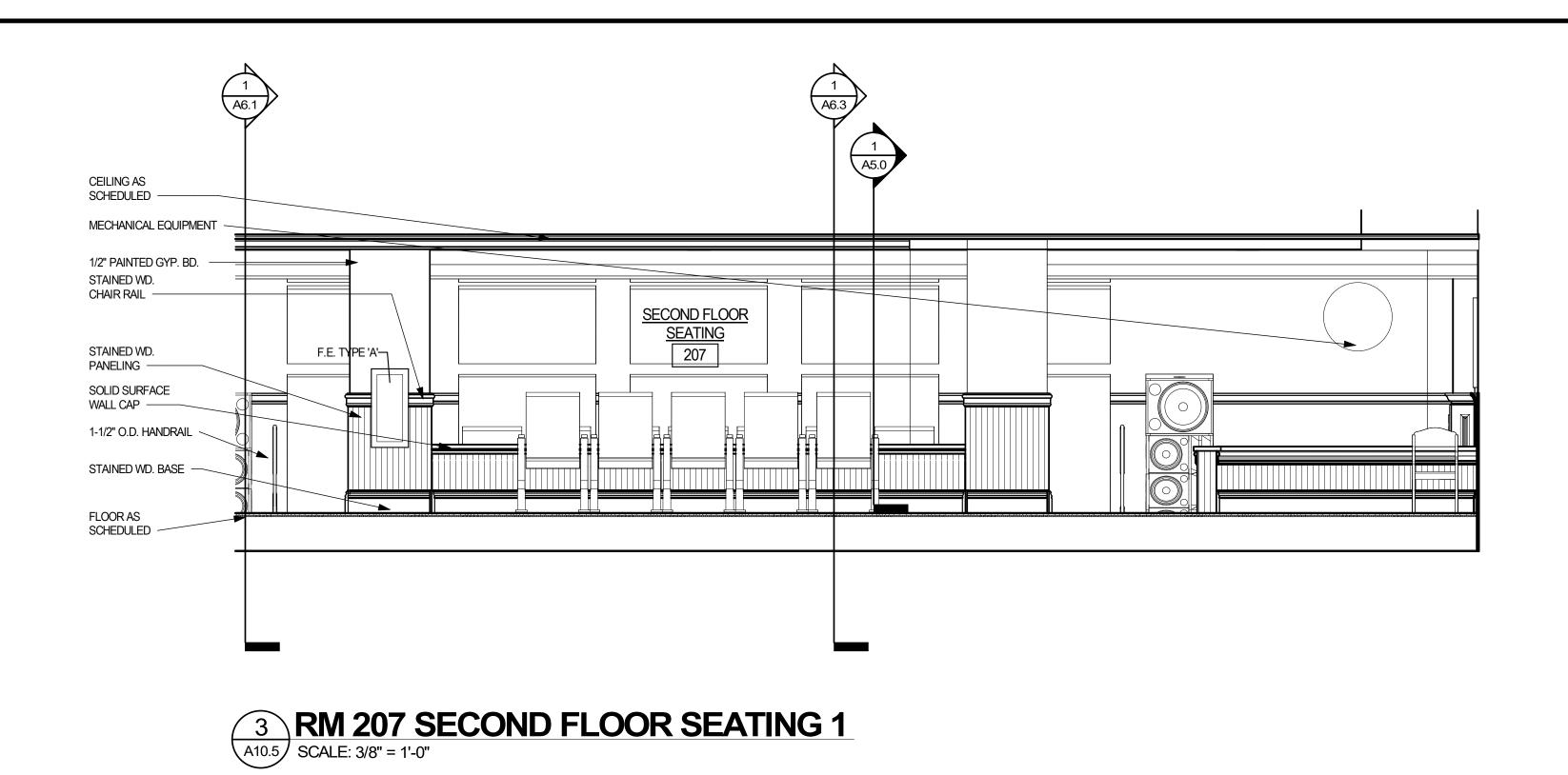
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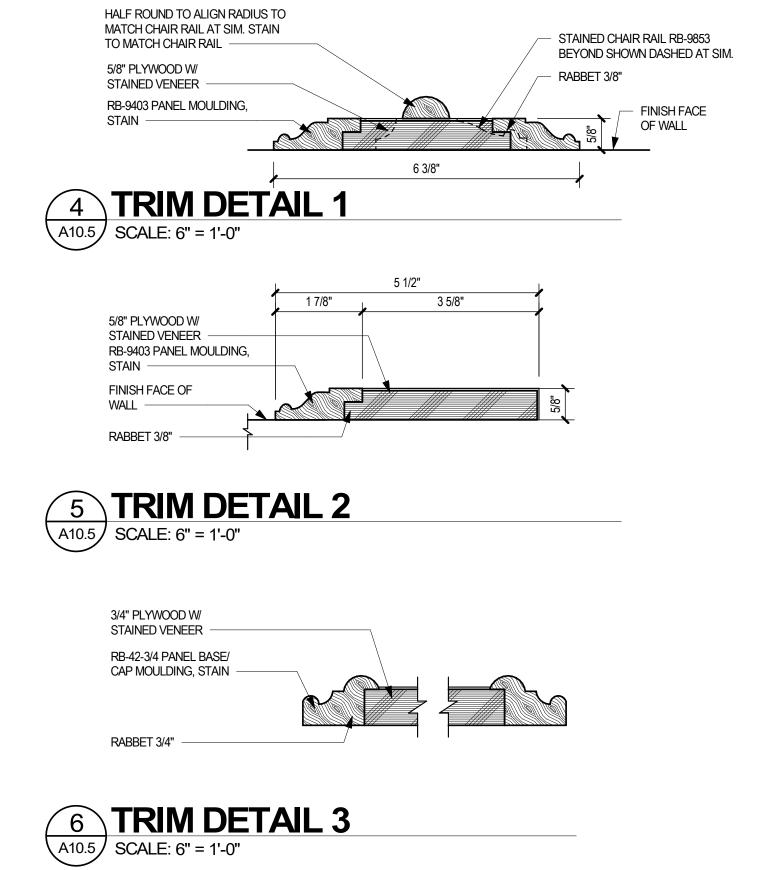
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PROJECT NUMBER

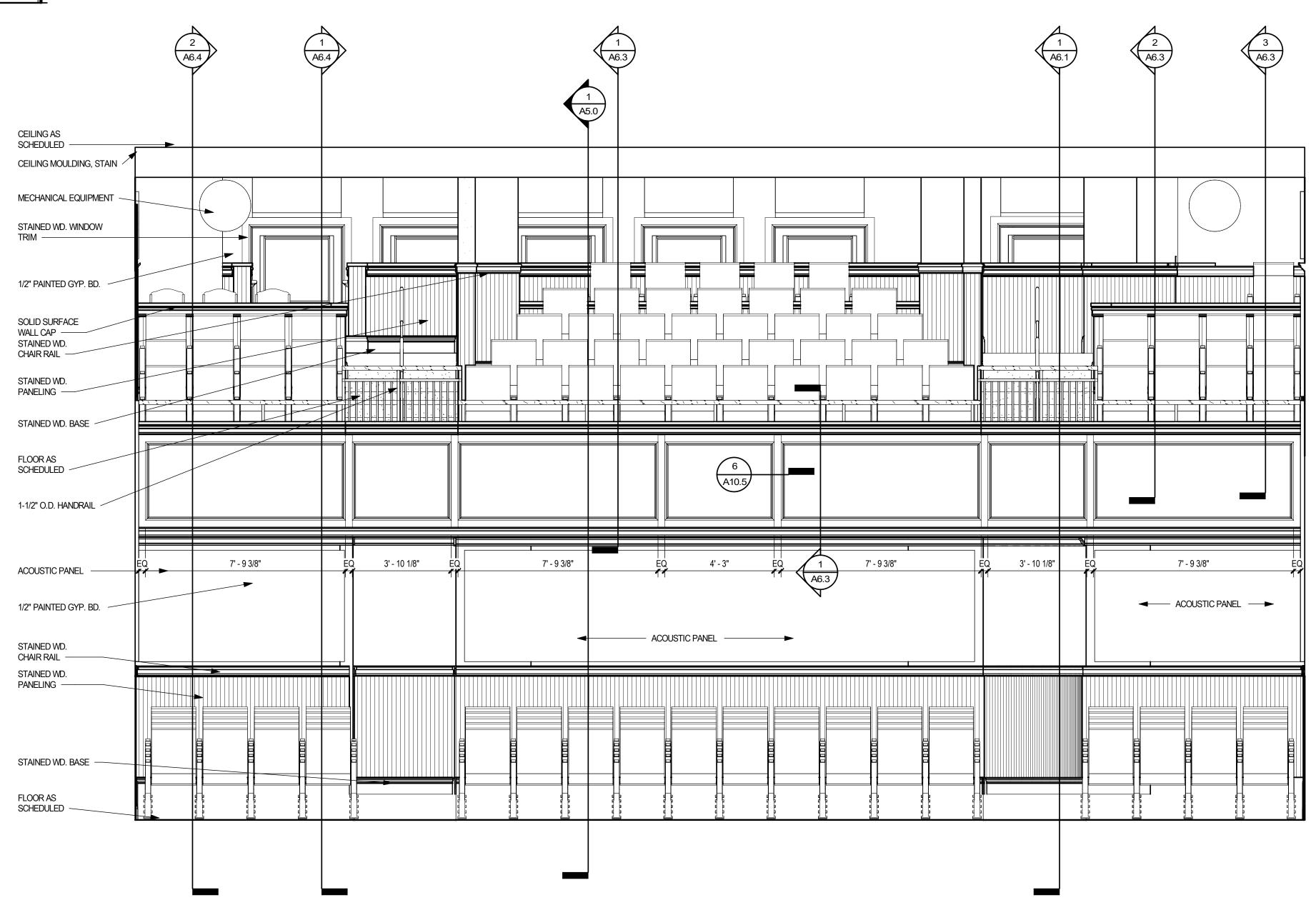
SHEET
NUMBER:





## 1 RM 115 SEATING LOWER LEVEL(4) SCALE: 3/8" = 1'-0"





2 RM 115 SEATING LOWER LEVEL(2)

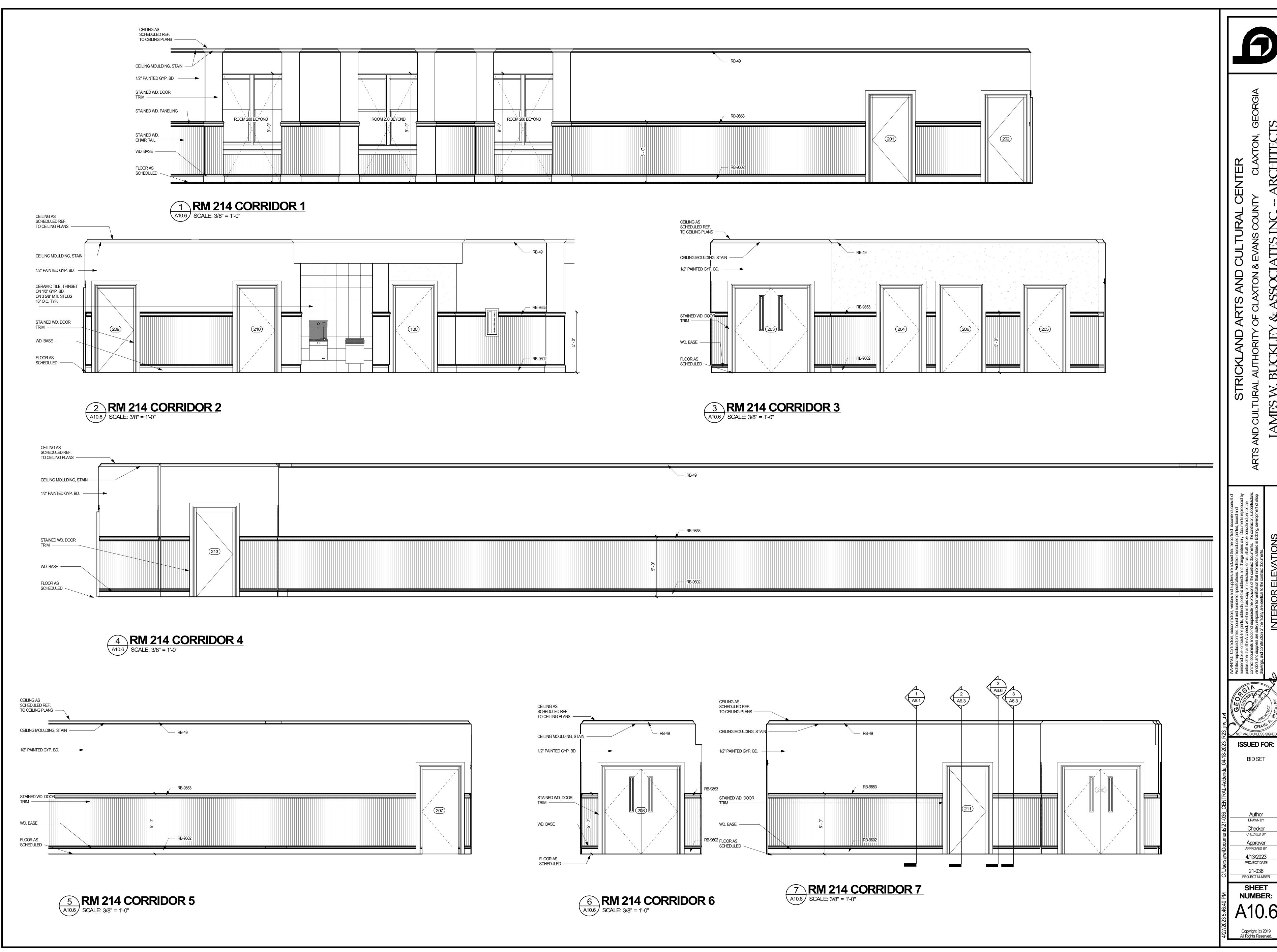
SCALE: 3/8" = 1'-0"

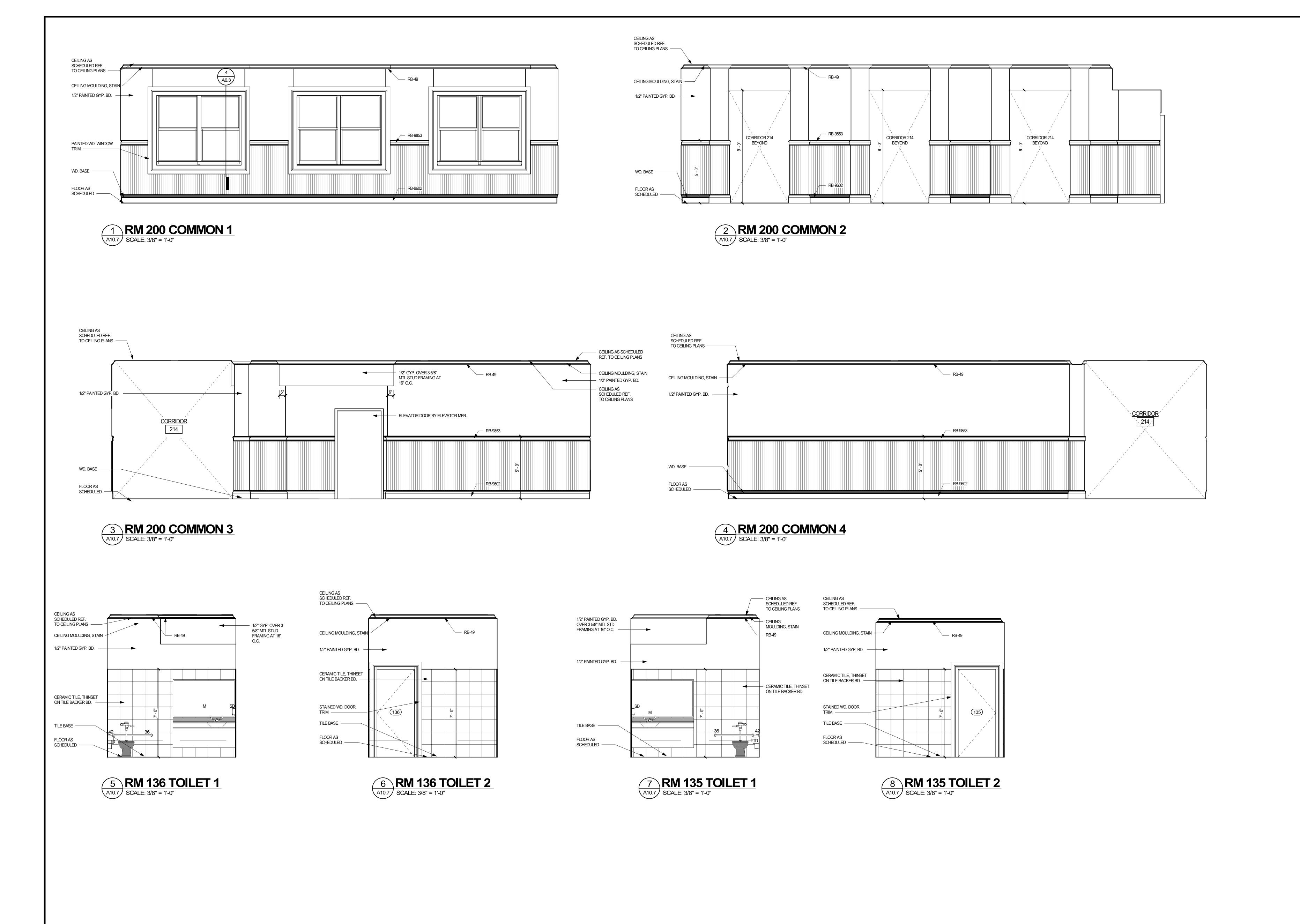
**ISSUED FOR:** 

**BID SET** 

4/13/2023

PROJECT NUMBER **NUMBER:** 





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FS AND CULTURAL AUTHORITY OF CLAXTON & EVANS COUNTY CLAXTON, GEC

International the facility are identical to the contract documents. The contractor, subcontract of the facility are identical to the contract documents.

INTERIOR ELEVATIONS

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CHECKED BY

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CHECKED BY

Approver
APPROVED BY

4/13/2023
PROJECT DATE

21-036
PROJECT NUMBER

NUMBER:
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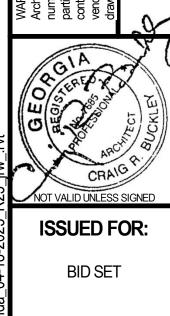
**ISSUED FOR: BID SET** 

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21-036 PROJECT NUMBER SHEET **NUMBER:** 

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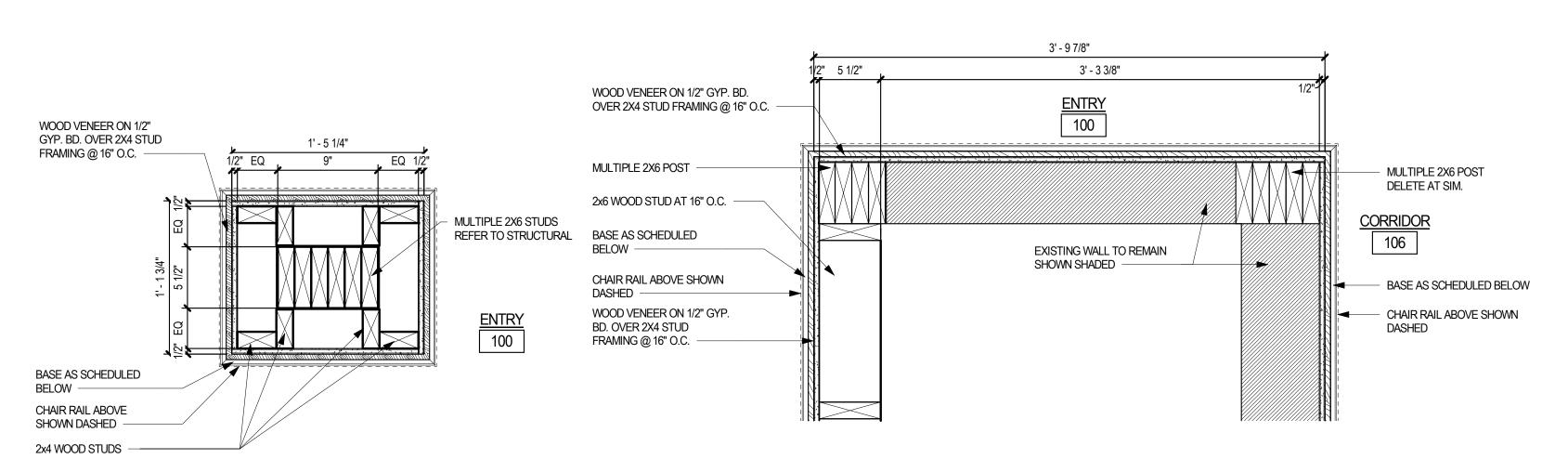
PROJECT DATE

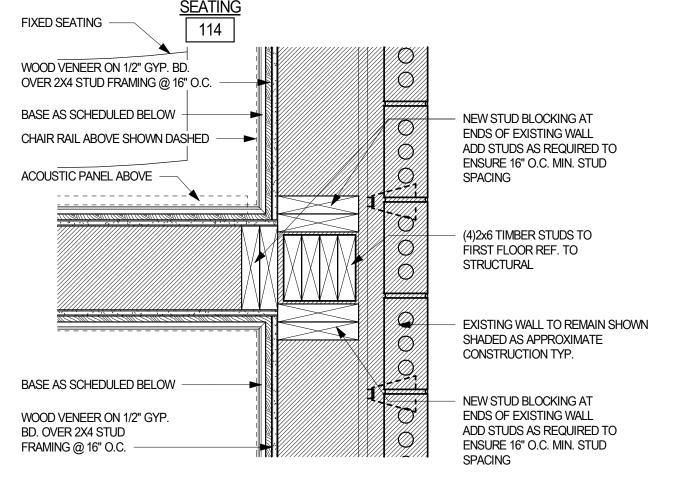


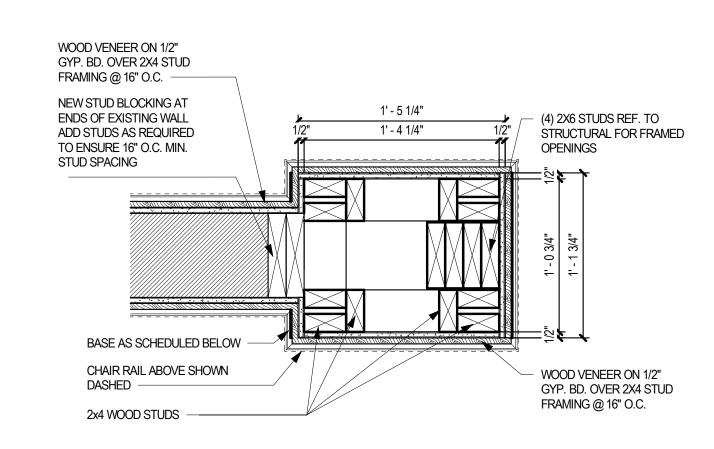
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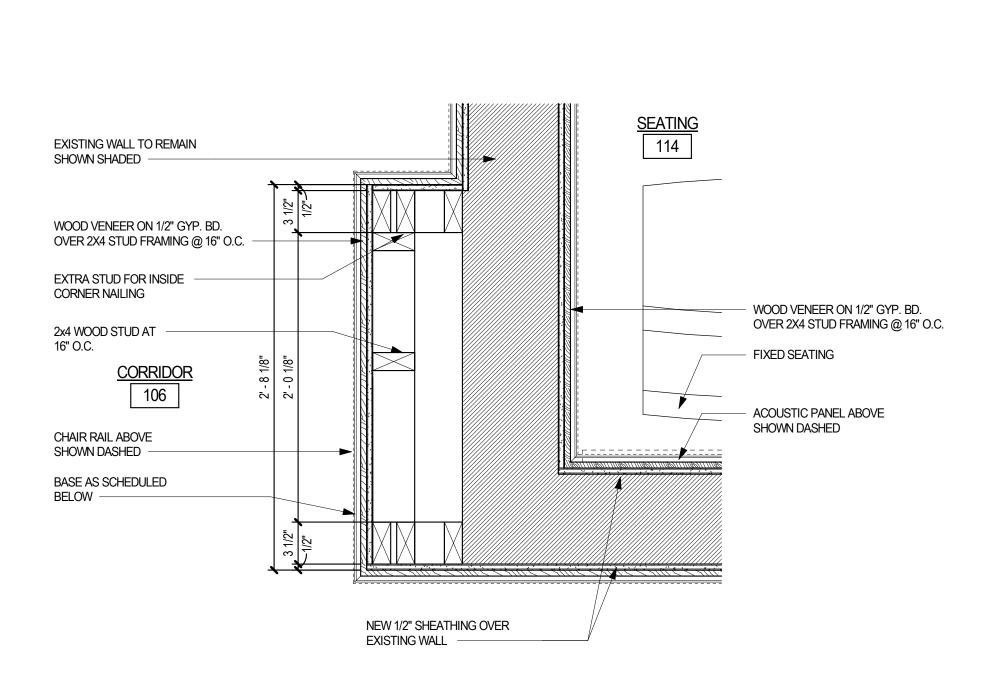


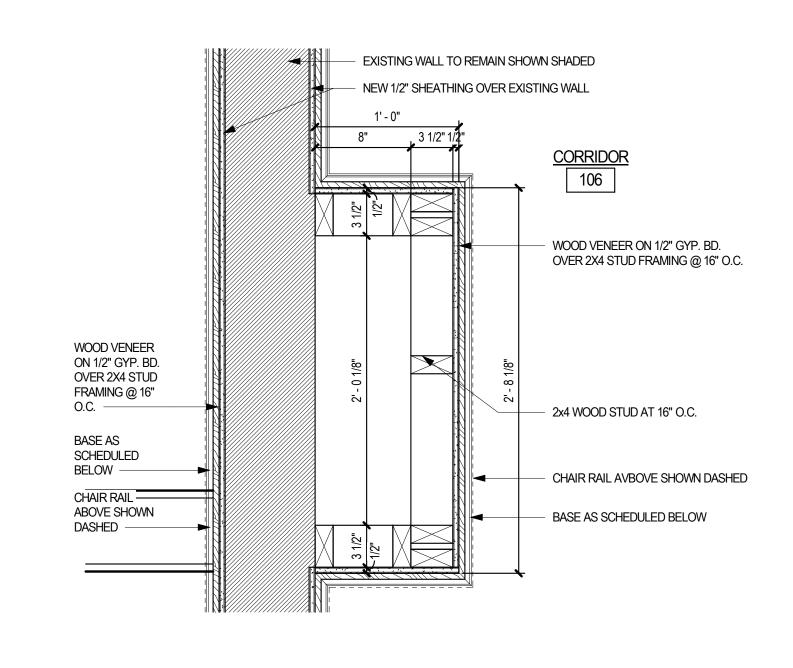
1 PLAN DETAIL - WOOD COLUMN AT ENTRY
SCALE: 1 1/2" = 1'-0"

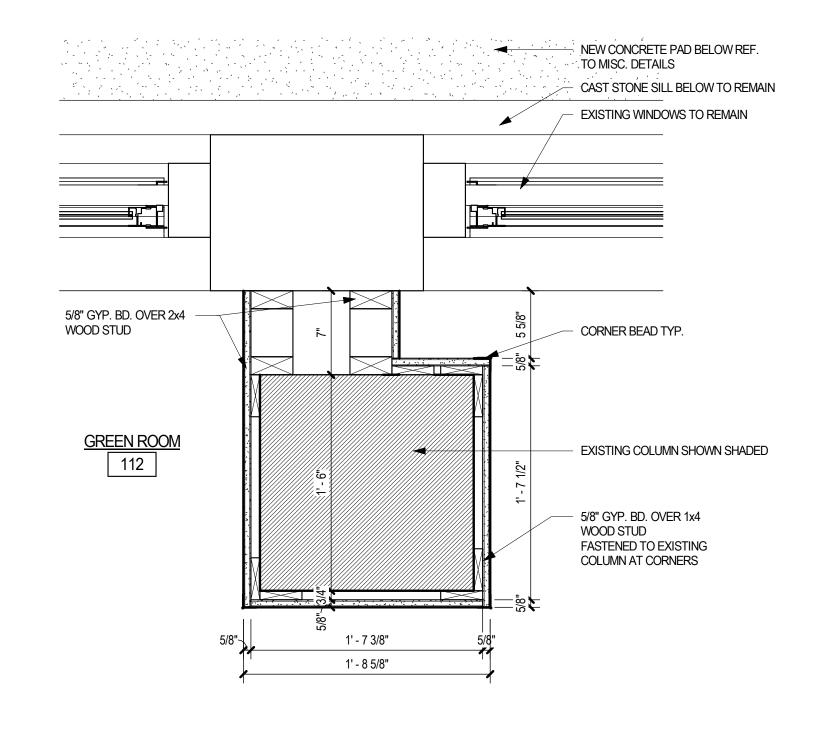


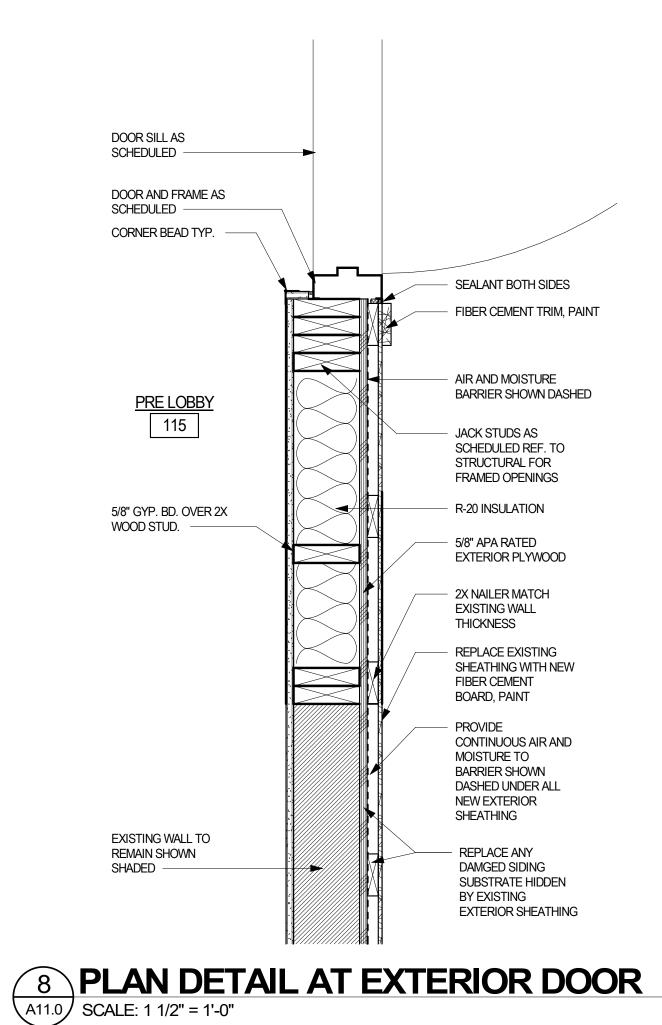










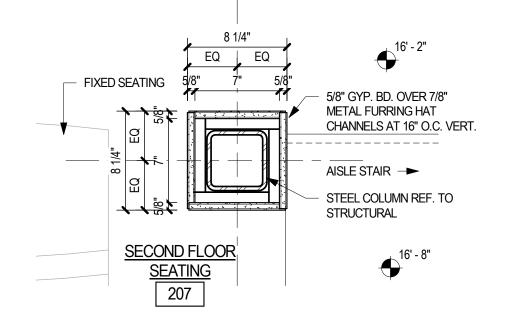


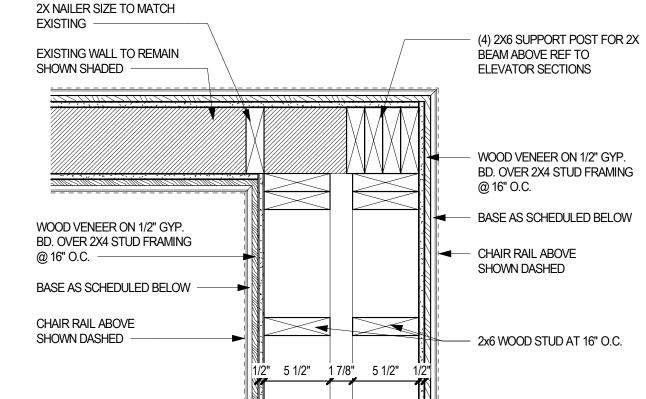
## 5 PLAN DETAIL AT LOBBY ENTRY 1 SCALE: 1 1/2" = 1'-0"



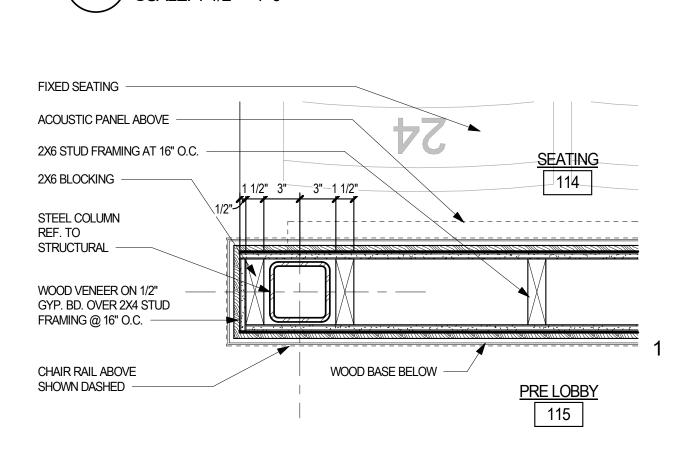
7 PLAN DETAIL AT EXISTING COLUMN

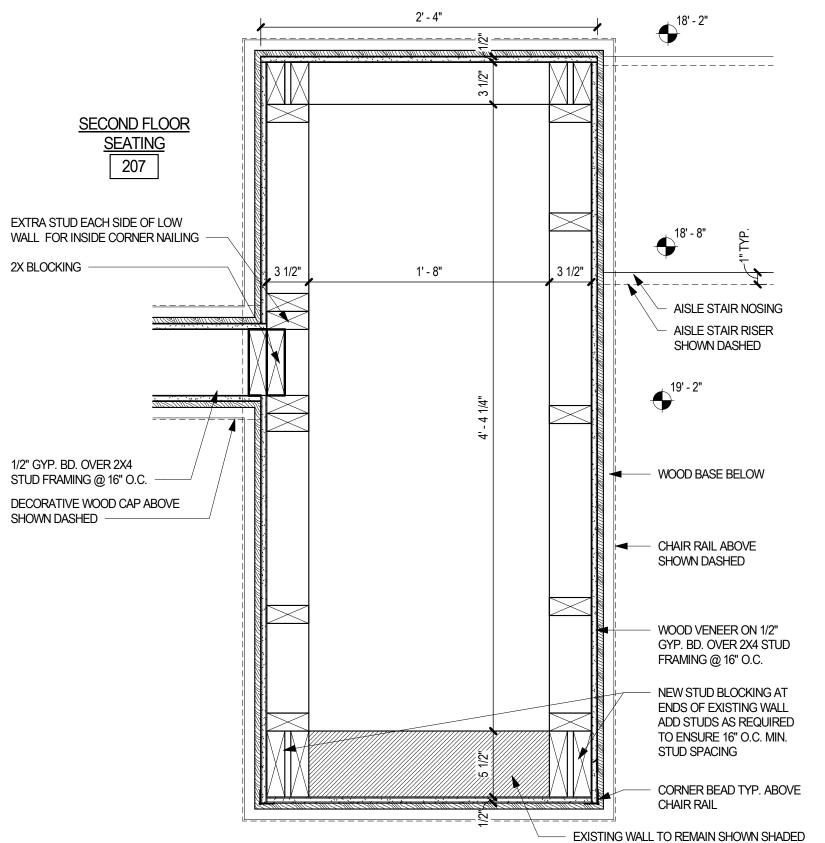
SCALE: 1 1/2" = 1'-0"

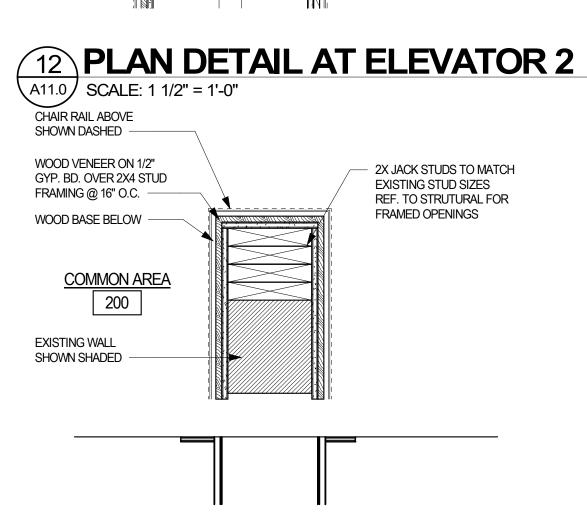




### 9 PLAN DETAIL AT COLUMN SCALE: 1 1/2" = 1'-0"





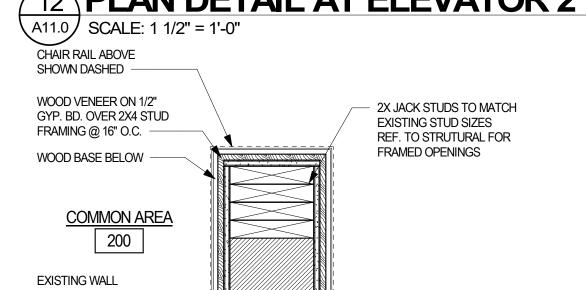


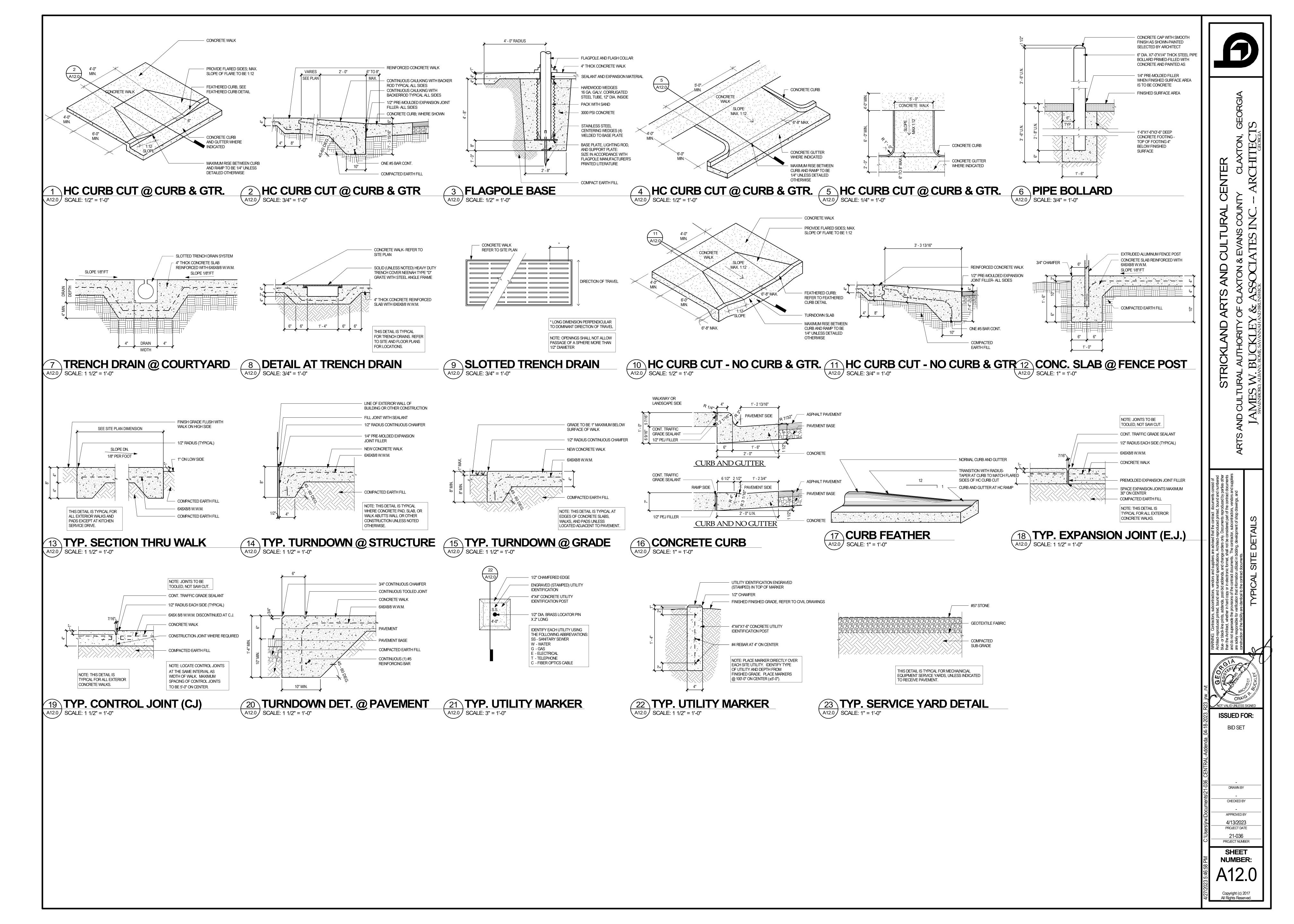
10 PLAN DETAIL AT COLUMN
SCALE: 1 1/2" = 1'-0"

PLAN DETAIL AT UPPER LEVEL SEATING

SCALE: 1 1/2" = 1'-0"







1. Steel Floor and Ceiling Tracks - (Not Shown) - Top and bottom tracks of wall assemblies shall consist of steel members, min No. 20 MSG (0.0329 in., min bare metal thickness) steel or min No. 20 GSG (0.036 in. thick) galv steel or No. 20 MSG (0.033 in. thick) primed steel, that provide a sound structural connection between steel studs, and to adjacent assemblies such as a floor, ceiling, and/or other walls. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. O.C. 2. Steel Studs - Corrosion protected steel studs, min No. 20 MSG (0.0329 in., min bare metal thickness) steel or min 3-

1/2 in. wide, min No. 20 GSG (0.036 in. thick) galv steel or No. 20 MSG (0.033 in. thick) primed steel, cold formed, shall be designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details enhancing the structural integrity of the wall assembly. including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing of wall assemblies shall not exceed 24 in. OC (or 16 in. OC when Item 5C is used). Studs attached to floor and ceiling tracks with 1/2 in. long Type S-12 steel screws on both sides of studs or by welded or bolted connections designed in accordance with the AISI specifications. 3. Lateral Support Members - (Not shown) - Where required for lateral support of studs, support may be provided by means of steel straps, channels or other similar means as specified in the design of a particular steel stud wall system. 4. Gypsum Board\* - Gypsum wallboard bearing the ULI Classification Marking as to Fire Resistance. Applied vertically with joints between layers staggered. Outer layer of 3 layer construction may be applied horizontally. The thickness and number of layers and percent of design load for the 45 min, 1 hr, 1-1/2 hr and 2 hr ratings are as follows:

| Rating   | Both Sides of Wall -<br>No. of Layers & Thkns<br>of Board In. Each Layers |     | % of<br>Design Load |
|----------|---|-----|---------------------|
| 45 min   | *1 layer, 1/2 in. thick   |     | 100                 |
| 1 hr     | *1 layer, 5/8 in. thick   |     | 100                 |
| 1-1/2 hr | *2 layers, 1/2 in. thick  | 100 |                     |
| 2 hr     | *2 layers, 5/8 in. thick or   |     | 80                  |
|          | *3 layers, 1/2 in. thick  | 100 |                     |
|          | *2 lavers 3/4 in thick  | 100 |                     |

Wallboard Protection

Interior Walls

\*Ratings applicable to assemblies serving as exterior walls where Classified fire resistive gypsum sheathing type wallboard is substituted on the exterior face.

|                            | Exterior Walls   |                     |
|----------------------------|--|---------------------|
| Rating                     | Wallboard Protection Both Sides of Wall - No. of Layers & Thkns of Board In. Each Layers | % of<br>Design Load |
| 45 min<br>1 hr<br>1-1/2 hr | 1 layer, 5/8 in. thick<br>2 layers, 1/2 in. thick<br>2 layers, 5/8 in. thick             | 100<br>100<br>100   |
| 2 hr                       | 3 layers, 1/2 in. thick<br>2 layers, 3/4 in. thick                                       | 100<br>100          |

See Gypsum Board (CKNX) Category - for names of Classified Companies of 1/2 in. or 5/8 in. thick wallboard. See below for Classified Companies of 3/4 in. thick wallboard. CANADIAN GYPSUM COMPANY — Types AR, IP-AR, IP-X3, or ULTRACODE

UNITED STATES GYPSUM CO — Types AR, IP-AR, IP-X3, or ULTRACODE **USG MEXICO S A DE C V** — Types AR, IP-AR, IP-X3, or ULTRACODE 4A. Gypsum Board - As an alternate to Item 4 – Nom. 5/8 in. thick gypsum panels, with square edges, applied horizontally

Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints and orizontal butt ioints on opposite sides of studs on interior walls need not be staggered. Horizontal edge joints an horizontal butt joints in adjacent layers on interior walls (multilayer systems) staggered a min of 12 in. **TEMPLE-INLAND FOREST PRODUCTS CORP** — GreenGlas

5. Gypsum Sheathing - For exterior walls, 1/2 or 5/8 in. thick exterior regular gypsum sheathing applied vertically and attached to studs and runner tracks with 1 in. long Type S-12 bugle head screws spaced 12 in. OC. along studs and tracks. One of the following exterior facings are to be applied over the gypsum sheathing. A. Siding, Brick, or Stucco - Aluminum siding, steel siding, brick veneer, or stucco attached to studs over gypsum sheathing and meeting the requirements of local code agencies. When a min 3-3/4 in. thick brick veneer facing is used, the Exterior Wall Rating is applicable with exposure on either face. Brick veneer wall attached to study with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick. When a min 3-3/4 in. thick brick

veneer facing is used, Foamed Plastic (Item 10) may be used. B. Mineral and Fiber Boards\* - Exterior hard board paneling, chemically treated over gypsum sheathing with primed or finished face, 7/16 in. thick by 48 in. wide. Attached to studs over gypsum sheathing with 1-7/8 in. long bugle-head TEK fasteners 16 in. OC at the intermediate supports Or, exterior lap siding, chemically treated, 7/16 in. thick by 8 in. or 12 in. wide. Attached to studs with 1-7/8 in. long, bugle-head Type TEK fasteners at each lap. Panels lapped minimum 1 in.

C. Cementitious Backer Units\* - 1/2 or 5/8 in. thick, square edge boards, attached to steel studs over gypsum sheathing with 1-5/8 in. long, Type S-12, corrosion resistant, wafer head steel screws, spaced 8 in. OC. Studs spaced a max of 16 in. OC. Joints covered with glass fiber mesh tape.

**UNITED STATES GYPSUM CO** — Durock Exterior Cement Board or Durock Brand Cement Board. D. Fiber-Cement Siding - Fiber-cement exterior sidings including smooth and patterned panel or lap siding. E. Molded Plastic\* - Solid vinyl siding mechanically secured to framing members in accordance with manufacturer's

recommended installation details. ALSIDE, DIV OF ASSOCIATED MATERIALS INC HEARTLAND BUILDING PRODUCTS INC

NEBRASKA PLASTICS INC 6. Fasteners - (Not Shown) - Screws used to attach wallboard to studs: self-tapping bugle head sheet steel type, spaced 12 in. O.C. First layer Type S-12 by 1 in. long for 1/2 and 5/8 in. thick wallboards and 1-1/4 in. long for 3/4 in. thick wallboard. Second layer Type S-12 by 1-5/8 in. long for 1/2 and 5/8 in. thick wallboards and 2-1/4 in. long for 3/4 in. thick wallboard. Third layer Type S-12 by 1-7/8 in. long.

7. Batts and Blankets\* — Placed in stud cavities of all exterior walls. May or may not be used in interior walls. Any glass fiber or mineral wool batt material bearing the UL Classification Marking as to Fire Resistance, of a thickness to completely fill stud cavity. See Batts and Blankets (BZJZ) Category for names of Classified Companies. 7A. Fiber, Sprayed\* - As an alternate to Batts and Blankets (Item 7) - Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 3.0 lb/ft3. Alternate application method: The fiber is applied with U.S. Greenfiber LLC Type AD100 hot melt adhesive at a nominal ratio of one part adhesive to 6.6 parts fiber to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 2.5 lb/ft3. U S GREENFIBER LLC — Cocoon2 Stabilized or Cocoon-FRM (Fire Rated Material)

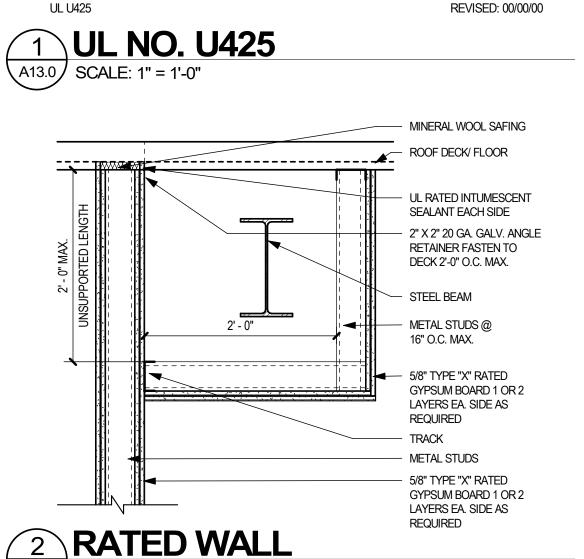
8. Joint Tape and Compound - (Not Shown) - Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layer. Perforated paper tape, 2 in. wide, embedded in first layer of compound over all joints of 9. Furring Channels - (Optional, not shown, for single or double layer systems) - Resilient furring channels fabricated from

min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. 10. Foamed Plastic\* - (Not Shown) - For use with brick veneer as outlined in Item 5A - Maximum 2 in. thick rigid polystyrene insulation attached to studs with fasteners of sufficient length to penetrate the foam and 3/16 in. into the stud. A minimum 1 in. air space is to be maintained between the outer surface of the foamed plastic and the inner surface of the

OWENS CORNING SPECIALTY & FOAM PRODUCTS 10A. Mortar Drop Protection - (Optional, Not shown) - foamed plastic with mortar control device attached, continuous, by drainage holes at bottom of air space behind brick veneer. OWENS CORNING SPECIALTY & FOAM PRODUCTS — WeepGuard

11. Cementitious Backer Units\* - (Optional Item Not Shown -For Use On Face Of 1 Hr Or 2 Hr Systems With All Standard Items Required) - 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min, 32 in. wide. - Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in, for steel framing members, and a minimum of 3/4 in, for wood framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing. 2-Hr System - Applied vertically with vertical joints centered over studs. Face layer fastened over gypsum board to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC.

NATIONAL GYPSUM CO — Type PermaBase \*Bearing the UL Classification Mark



METAL STUDS/GYPSUM BOARD

ADJACENT TO BEAM

REVISED: 2/25/09

October 02, 2019

1. Floor and Ceiling Runners — (Not Shown) — Channel shaped runners, 3-5/8 in. deep (min), 1-1/4 in. legs, formed from min No. 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. 1A. Framing Members\* — Floor and Ceiling Runners — (Not Shown) — As an alternate to Item 1 — Channel shaped, min 3-5/8 in, deep, attached to floor and ceiling with fasteners 24 in, OC, max.

**ALLSTEEL & GYPSUM PRODUCTS INC** — Type SUPREME D24/30EQD and Type SUPREME D20 CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20 **QUAIL RUN BUILDING MATERIALS INC** — Type SUPREME D24/30FQD and Type SUPREME D20 SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20 UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20 1B. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track FUSION BUILDING PRODUCTS — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track 1C. Floor and Ceiling Runners — (Not Shown) — For use with Item 2C — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC. 1D. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1C — For use

with Item 2D and 4G only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. **CLARKDIETRICH BUILDING SYSTEMS** — CD ProTRAK

**DMFCWBS L L C** — ProTRAK MBA METAL FRAMING — ProTRAK RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1E. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1D — For use with Item 2E and 4I only, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. TELLING INDUSTRIES L L C — TRUE-TRACK™

1F. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1E — For use with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 25 MSG steel. attached to floor and ceiling with fasteners spaced 24 in. OC max. KIRII (HONG KONG) LTD — Type KIRII

1G. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 through 1F — For use screw length increased to 1-1/4 in. with Item 2, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide, attached to floor and ceiling with fasteners spaced 24 in. OC max STUDCO BUILDING SYSTEMS — CROCSTUD Track 1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min

width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC. MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100 FUSION BUILDING PRODUCTS — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100 11. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2H, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. **TELLING INDUSTRIES L L C** — Viper20™ Track

1J. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Items 1 — For use with Item 2 L,

proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. STEEL INVESTMENT GROUP L L C — AlphaTRAK 1K. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2M, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 25 MSG (0.018 in. min.

bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X Track 1L. Framing Members\* — Floor and Ceiling Runners — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv

steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CRACO MFG INC — SmartTrack20™ 2. Steel Studs — Channel shaped, 3-5/8 in. deep (min), formed from min No. 25 MSG galv steel spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height. 2A. Framing Members\* — Steel Studs — As an alternate to Item 2 — Channel shaped studs, min 3-5/8 in. deep,

spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20 CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20 **QUAIL RUN BUILDING MATERIALS INC** — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30FQD and Type SUPREME D20 UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20 2B. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1B, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME

cut 3/4 in. less in length than assembly height. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ CRACO MFG INC — SmartStud20™ MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

FUSION BUILDING PRODUCTS — Viper20™ IMPERIAL MANUFACTURING GROUP INC — Viper20™

2C. Steel Studs — (As an alternate to Item 2, For use with Item 1C) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height. See materials in Item(s) 4 that require Item

gypsum panels with beveled, square or tapered edges installed as described in Item 4 and 4A. 2D. Framing Members\* — Steel Studs — As an alternate to Items 2 through 2C — For use with Item 1D and 4G only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in.

OC. Studs to be cut 1/2 in. less than assembly height. **CLARKDIETRICH BUILDING SYSTEMS** — CD ProSTUD **DMFCWBS L L C** — ProSTUD MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD 2E. Framing Members\* — Steel Studs — As an alternate to Items 2 through 2D — For use with Item 1E and 4I only, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in. less than assembly height.

TELLING INDUSTRIES L L C — TRUE-STUD™ 2F. Framing Members\* — Steel Studs — As an alternate to Items 2 through 2E — For use with Item 1F, channel shaped studs, min 3-5/8 in. wide fabricated from min 25 MSG steel, spaced a max of 24 in. OC. Studs to be cut 1/2 in, less than assembly height. KIRII (HONG KONG) LTD — Type KIRII

6. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 through 2F — For use with Item 1G. Proprietary channel shaped studs, minimum 3-5/8 in. wide, Studs to be cut 1/2 in. less than the assembly height. STUDCO BUILDING SYSTEMS — CROCSTUD

2H. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 11, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in, less in length than assembly height TELLING INDUSTRIES L L C — Viper20™ 2l. Framing Members\* — Steel Studs — In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated

from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less than assembly height. **EB METAL INC** — NITROSTUD 2J. Framing Members\* — Steel Studs — In lieu of Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 3-5/8 in. deep (min), spaced 24 in. OC max. Studs to be cut 3/4 in. less

than assembly height. **OLMAR SUPPLY INC** — PRIMESTUD 2K. Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1B (3-5/8 in. wide track), channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 1-1/4 in. wide by 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite TM 2L. Framing Members\* — Steel Studs — As an alternate to Items 2 — For use with Item 1J, channel shaped studs, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in, less than assembly height. STEEL INVESTMENT GROUP L L C — AlphaSTUD

2M. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1K, proprietary channel shaped steel studs, min 1-1/4 in. wide by min 3-5/8 in. deep, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/4 in, less in length than assembly height CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper >

2N. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1L, proprietary channel shaped steel studs, 1-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel. Studs cut 3/4 in. less in length than assembly height CRACO MFG INC — SmartStud20™ 3. Batts and Blankets\* — (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity.

**ROCKWOOL** — Type AFB, min. density 1.69 pcf / 27.0 kg/m<sup>3</sup> See Batts and Blankets (BZJZ) category for names of Classified companies. 3A. Fiber. Sprayed\* — As an alternate to Batts and Blankets (Item 3) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: installed as described in Item 4.

The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft<sup>3</sup>, in accordance with the application instructions supplied with the product. **U S GREENFIBER L L C** — INS735, INS745, INS750LD for use with wet or dry application. INS765LD and INS773LD are to be used for dry application only

The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft. **NU-WOOL CO INC** — Cellulose Insulation 3C. Fiber, Sprayed\* — As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose fiber. The fiber is

applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft<sup>3</sup>. INTERNATIONAL CELLULOSE CORP — Celbar-RL 3D. Batts and Blankets\* — For use with Item 8. Nom 3 in. thick, minimum 3.4 pcf mineral wool batts, friction fit

between the studs and floor and ceiling runners. See Batts and Blankets (BZJZ) category for names of manufacturers. 3E. Batts and Blankets\* — For use with Item 4P, 4R, and 4S. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. 3F. Fiber, Sprayed\* — As an alternate to Batts and Blankets (Item 3) — Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with

the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by

any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft3. **APPLEGATE HOLDINGS L L C** — Applegate Advanced Stabilized Cellulose Insulation 4. Gypsum Board\* — 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to Items 6 (resilient channels) or 6A. 6B. 6C, 6D, or 6E (furring channels), gypsum board is screw attached to furring channels with 1 in. long, Type S steel

**CABOT MANUFACTURING ULC** — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing AMERICAN GYPSUM CO — Types AG-C. AGX-1. M-Glass, LightRoc BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX) CERTAINTEED GYPSUM INC — Types 1, EGRG, GlasRoc, Type X, Type X-1, Type C, 5/8" Easi-Lite Type X, Easi-Lite Type X-2 C/A, LGFC-WD, LGLLX

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS6, LS, Type X, 6D. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, TG-C, GreenGlass Type below: X, Type X ComfortGuard Sound Deadening Gypsum Board, Type LWX, Veneer Plaster Base-Type LWX, Water a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- secured to studs as described in Item 6Db. Ends of adjoining channels overlapped 6 in. and tied together with double DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4. Not for Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W FSW-6. FSW-8. FSL

**NATIONAL GYPSUM CO** — Riyadh, Saudi Arabia — Type FR, or WR PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C, PG-9, PG-11, PGS-WRS PANEL REY S.A.— Types GREX. GRIX. PRC. PRC2. PRX. RHX. MDX. ETX

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 THAI GYPSUM PRODUCTS PCL — Type X, Type C

UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX,

USGX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX) USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX) 4A. **Gypsum Board\*** — (As alternate to Item 4) — Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing.

Panels attached to steel studs and floor runner with 1 in. long Type S steel screws spaced 8 in. OC when applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. When used in widths other than 48 in., gypsum panels to be installed horizontally. CERTAINTEED GYPSUM INC — Type X, Type X-1, Type C, Type EGRG/ GlasRoc, GlasRoc-2, Type SilentFX,

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound. Item 5. optional for use with Type USGX)

**GEORGIA-PACIFIC GYPSUM L L C** — Types DAP, DAPC, DGG, DS DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air. Gyproc DuraLine M2TECH ACTIV'Air

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX) USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, USGX, WRC or WRX (Joint tape and compound, Item 5, optional for use with Type USGX)

CGC INC — Types AR, IP-AR UNITED STATES GYPSUM CO — Types AR, IP-AR

THAI GYPSUM PRODUCTS PCL — Type X, Type C

USG MEXICO S A DE C V — Types AR, IP-AR 4C. Gypsum Board\* — As an alternate to Items 4, 4A, and 4B — Nom. 5/8 in. thick gypsum panels, with square edges, applied required behind vertical joints of lead backed gypsum board (Item 4E) and optional at remaining stud locations. Required horizontally. Gypsum panels fastened to framing with 1 in. long bugle head steel screws spaced a max 8 in. OC, with last 2 behind vertical joints. screws 3/4 in. and 4 in. from each edge of board. Horizontal joints need not be backed by steel framing. Horizontal edge joints 9A. Lead Batten Strips — (Not Shown, for use with Item 4J) — Lead batten strips, 2 in. wide, max 10 ft long with a and horizontal butt joints on opposite sides of studs on interior walls need not be staggered or backed by steel framing. **GEORGIA-PACIFIC GYPSUM L L C** — Type DGG, GreenGlass Type X

horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Horizontal edge joints specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Gypsum panels fastened wallboard (Item 4J) and optional at remaining stud locations. to framing with 1 in. long Type S steel screws 12 in. OC along vertical edges and in the field. Screws spaced a max 12 in. along 10. Lead Discs or Tabs — (Not Shown, For Use With Item 4E) — Used in lieu of or in addition to the lead batten strips the top and bottom edges of the wall for both vertical and horizontal applications. When used in widths other than 48 in., gypsum (Item 8) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered panels to be installed horizontally.

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSL, FSW-C, FSW-G, FSW, FSW-3, FSW-5, 4E. Gypsum Board\* — (As an alternate to Items 4 through 4D) — Installed as described in Item 4. 5/8 in. thick, 4 ft. wide, applied vertically only and fastened to the studs and plates with 1 in. long, Type S steel screws spaced, 12 in. OC.

NATIONAL GYPSUM CO — Type SBWB 4F. **Gypsum Board\*** — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C) - Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. 12. Wall and Partition Facings and Accessories\* — (Optional, Not Shown) — For use with Items 1 to 11, Items 2 to

**RAY-BAR ENGINEERING CORP** — Type RB-LBG 4G. **Gypsum Board\*** — (As an alternate to Items 4 through 4F) — For use with Items 1D and 2D only, 5/8 in. thick, 4 ft wide, membrane to be overlapped by 2 inches. When Reflexor membrane is used an additional layer of Gypsum Board that is attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board identical to the one used in the first layer and as specified in Item 4 to Item 41 shall be installed over the membrane. The and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A, LGFC-C/A NATIONAL GYPSUM CO — Types FSW

UNITED STATES GYPSUM CO — Type SCX **USG BORAL DRYWALL SFZ LLC** — Type SCX 4H. **Gypsum Board\*** — (As an alternate to Items 4 through 4G) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and SONOpan panel install the same Gypsum Board as specified in Item 4 to Item 4 with the fastener length increased by secured as described in Item 4.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES 4l. Gypsum Board\* — (As an alternate to Items 4 through 4F) — For use with Items 1E and 2E only, 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC. along edges of board Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. UNITED STATES GYPSUM CO — Type SCX

**USG BORAL DRYWALL SFZ LLC** — Type SCX 4J. Gypsum Board\* — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints direct attachment only to steel studs Item 2C) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center. Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the

field. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum 4K. Gypsum Board\* — (As an alternate to Item 4 and 4A, not for use with Items 1D, 1E, 2D and 2E) — Nom, 5/8 in, thick CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX USG MEXICO S A DE C V — Type ULX

4L. Gypsum Board\* — (Not Shown) — (As an alternate to Item 4 when used as the base layer on one or both sides of wall. For direct attachment only to steel studs Item 2C). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall 4M. **Gypsum Board\*** — (For use with Item 8) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 8) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 8). Secured to outermost studs and floor and ceiling runners with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints

covered with paper tape and joint compound. Screw heads covered with joint compound. **AMERICAN GYPSUM CO** — Type AG-C

**CERTAINTEED GYPSUM INC** — Type FRPC, Type C CGC INC — Types C, IP-X2, IPC-AR CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C NATIONAL GYPSUM CO — Types eXP-C, FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C PANEL REY S A — Types PRC, PRC2 SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'Air, Gyproc FireStop M2TECH ACTIV'Air, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTIV'Air, Gyproc DuraLine MR ACTIV'Air, Gyproc DuraLine M2TECH ACTIV'Air

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR **USG BORAL DRYWALL SFZ LLC** — Type C

THAI GYPSUM PRODUCTS PCL — Type C

**USG MEXICO S A DE C V** — Types C, IP-X2, IPC-AR 4N. Wall and Partition Facings and Accessories\* — (As an alternate to Item 4) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527

4O. **Gypsum Board\*** — As an alternate to Items 4, 4A, 4B, and 4C — Two lavers Nom, 5/16 in, thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by steel framing. Horizontal joints on the same side need not be staggered. When applied horizontally, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC and staggered 4 in. OC between layers. When applied vertically, both layers of gypsum board fastened to each side of framing with 1 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field, staggered 4 in. OC between layers. Screws spaced a max 12 in. along the top and bottom edges of the wall.

NATIONAL GYPSUM CO — Type FSW 4P. Gypsum Board\* — As an alternate to Item 4. For use with Item 3E, Batts and Blankets\* — 5/8 in. thick, 4 ft wide, installed as described in Item 4. UNITED STATES GYPSUM CO — Types ULIX

4Q. Gypsum Board\* — 3/4 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track as described in Item 4 with screw length increased to min. 1- 1/8 in. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13 4R. Gypsum Board\* — As an alternate to Item 4D. For use with Item 3E, Batts and Blankets\* — 5/8 in. thick, 4 ft wide,

NATIONAL GYPSLIM CO - Type FSLX 4S. Gypsum Board\* — As an alternate to Item 4. For use with Item 3E, Batts and Blankets\* — 5/8 in. thick, 4 ft wide, installed as described in Item 4A. CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type CLLX.

3B. **Fiber, Sprayed\*** — As an alternate to Batts and Blankets (Item 3) — Spray applied cellulose insulation material.

4T. **Wall and Partition Facings and Accessories\*** — (As an alternate to 5/8 in. thick board as outlined in Item 4) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field. PABCO BUILDING PRODUCTS L L C. DBA PABCO GYPSUM — Type QuietRock 545

5. **Joint Tape and Compound** — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. 6. Resilient Channel — (Optional — Not Shown) — 25 MSG galv steel resilient channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 1/2 in. long type S-12 pan head steel screws. May not be used with Item

6A. Steel Framing Members\* — (Not Shown) — As an alternate to Item 6, furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Not for use with Items 4F, 4J, or 4L.

b. Framing Members\* — Used to attach furring channels (Item a) to studs (Item 2). Clips spaced 48 in. OC., and secured to studs with 1-5/8 in, wafer or hex head Type S steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75) 6B. Framing Members\* — (Not Shown) — (Optional on one or both sides) — As an alternate to Item 6, furring channel and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC

perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 4. Not for use with Items 4F, 4J, or 4L. b. Steel Framing Members\* — Used to attach furring channels (Item 6Ba) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. PLITEQ INC — Type Genie Clip

use with Items 4F, 4J, or 4L. NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSM-C, FSW-C, FSW-G, FSW-G, FSW-S, FSW-5, b. Steel Framing Members\* — UUsed to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC, and secured to studs with No.8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted

**REGUPOL AMERICA** — Type SonusClip 6E. Steel Framing Members\* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below

secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4. Not for use with Items 4F, 4J, or 4L. b. Steel Framing Members\* — Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to

clips with one No. 10 x 1/2 in. pan-head self-drilling screw. **KEENE BUILDING PRODUCTS CO INC** — Type RC+ Assurance Clip 7. Wall and Partition Facings and Accessories\* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the steel framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to

fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510 8. Mineral and Fiber Board\* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer (Item 4M) is to be installed over the Mineral and Fiber Boards. Batts and

Blankets, Item 3D, and Adhesive, Item 11, are required.

**HOMASOTE CO** — Homasote Type 440-32 CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC- 8A. Mineral and Fiber Board — (Optional, Not Shown) — For optional use as an additional layer on one side of wall -Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 4). Fiber boards installed with 1-1/4 in. long, Type S steel SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc M2TECH, Gyproc FireStop ACTIV'Air, Gyproc FireStop MR ACTIV'AIr, G minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. Not evaluated for use with Item 4M.

BLUE RIDGE FIBERBOARD INC — SoundStop 8B. Mineral and Fiber Board\* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to studs and floor and ceiling USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX (Joint tape and compound, Item 5, optional for use with runners with 1-5/8 in. long Type S steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer is to be installed over the Mineral and Fiber Boards and secured to stude with length of fasteners increased by 1/2 in. over the length specified for installation of the gypsum boards. Batts and Blankets, Item 3, are optional unless otherwise required. Not for use with Items 4F, 4J, 4L, and 4M. 4B. **Gypsum Board\*** — (As an alternate to Items 4 or 4A) — Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with **HOMASOTE CO** — Homasote Type 440-32

9. Lead Batten Strips — (Not Shown, For Use With Item 4E) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long

with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. 4D. **Gypsum Board\*** — As an alternate to Items 4, 4A, 4B, and 4C — Nom. 5/8 in. thick gypsum panels applied vertically or Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal

> over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4E) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f. Grade "C".

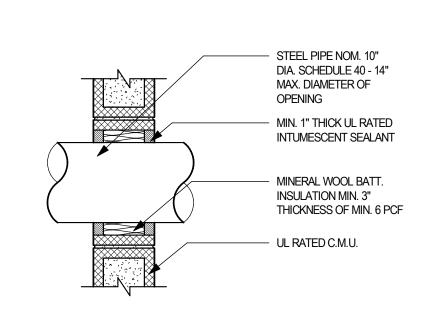
10A. Lead Discs — (Not Shown, for use with Item 4J) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. **Adhesive** — Not Shown — (For use with Item 8) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 8). Gypsum board secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the 2J, Item 3, Items 4 to 4l, Item 5 and Item 6. For maximum fire rating of 1 hour. On one side of the wall, over the first layer of Gypsum Board (Item 4 to Item 4I), install RefleXor membrane with the gold side facing outwards. Membrane installed with T50 staples spaced 12 inches on center in both directions as per manufacturer's instructions, seams in additional layer of Gypsum Board to be installed through the membrane to the stud as specified in Item 4 to Item 4 except the fastener length shall be increased by a minimum of 5/8 inch. Install Batts and Blankets in the stud cavity a per Item 3. On the other side of the wall, prior to the installation of the Gypsum Board, install Resilient Channels as per Item 6. Over the Resilient Channels install 3/4 inch thick SONOpan panel secured to the Resilient Channels with drywall screws and washers spaced at 16 in. OC on the perimeter of the panel and 8 in. OC in the field of the panel. Over the minimum 3/4 inch. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

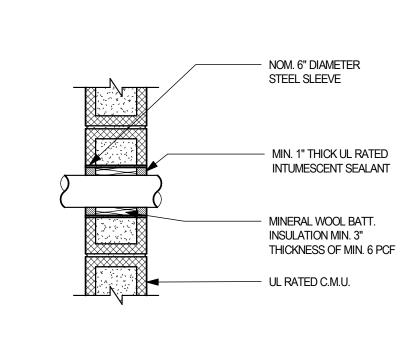
**MSL** — RefleXor membrane, SONOpan panel 13. Barrier Mesh — (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 4) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively

REVISED: 10/31/2019









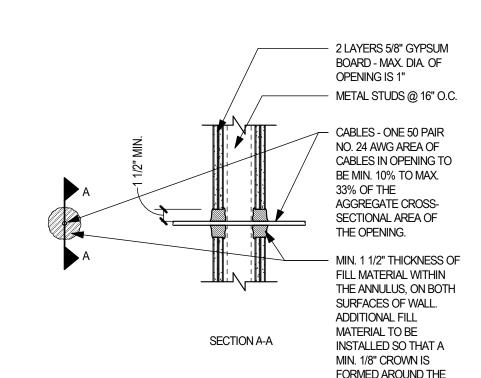


|   |                     |                     |                | ,         |                  |       |                          |                  |    |   |
|---|---------------------|---------------------|----------------|-----------|------------------|-------|--------------------------|------------------|----|---|
| BUILDING ELEMENT  | TYPE                | I                   | TYF            | EΙΙ       | TYP              | E III | TYPE IV                  | TYPE             | ΞV | a. Roof supports: Fire resistance ratings of primary structural frame and bear walls are permitted to be reduced by 1 hour where supporting a roof only.      Transit is grown 5.1 LLM and 6.4 assumption for protection of the other.  |
| BOLBING ELLINETYI   | А                   | В                   | Α              | В         | А                | В     | HT                       | А                | В  | b. Except in group F-1, H, M and S-1 occupancies, fire protection of structuta<br>members in roof construction shall not be required, including protection of pri<br>structural frame members, roof framing and decking where every part of the r   |
| Primary structural frame <sup>f</sup> (see Section 202)               | 3 <sup>a, b</sup>   | 2 <sup>a, b</sup>   | 1 <sup>b</sup> | 0         | 1 <sup>b</sup>   | 0     | HT                       | 1 <sup>b</sup>   | 0  | construction is 20 feet or more above any floor immediately below. Fire-retar treated wood members shall be allowed to be used for such unprotected men   |
| Bearing walls<br>Exterior <sup>e,f</sup><br>Interior                  | 3<br>3 <sup>a</sup> | 2<br>2 <sup>a</sup> | 1              | 0         | 2                | 2     | 2<br>1/HT                | 1                | 0  | <ul> <li>c. In all occupancies, heavy timber cpmplying with sectio 2304.11shall be a where a 1-hour or less fire-resistance rating is required.</li> <li>d. Not less than the fire-resistance rating required by other sections of this o</li> <li>e. Not less than the fire-resistance rating based on fire separation distance</li> </ul> |
| Non bearing walls and partitions<br>Exterior                          |                     |                     |                | See Table | e 602            |       | •                        |                  |    | Table 602).  f. Not less than the fire-resistance rating as referenced in Section 704.10  |
| Nonbearing walls and partitions<br>Interior <sup>d</sup>              | 0                   | 0                   | 0              | 0         | 0                | 0     | See Section<br>2304.11.2 | 0                | 0  |   |
| Floor construction and associated secondary members (see Section 202) | 2                   | 2                   | 1              | 0         | 1                | 0     | НТ                       | 1                | 0  |   |
| Roof construction and associated secondary members (see Section 202)  | 1 1/2 <sup>b</sup>  | 1 <sup>b,c</sup>    | 1 b,c          | 0 °       | 1 <sup>b,c</sup> | 0     | НТ                       | 1 <sup>b,c</sup> | 0  |   |

a. Roof supports: Fire resistance ratings of primary structural frame and bearing walls are permitted to be reduced by 1 hour where supporting a roof only. where a 1-hour or less fire-resistance rating is required.

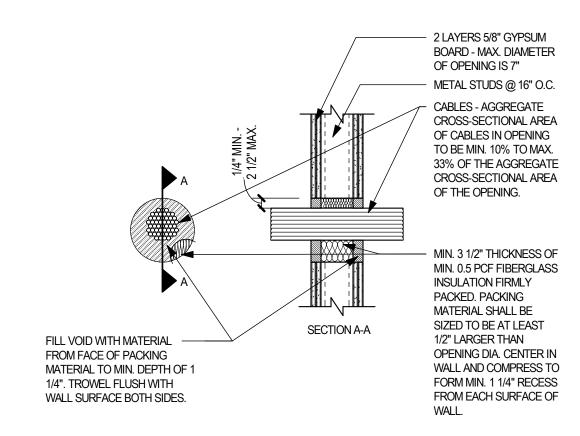
b. Except in group F-1, H, M and S-1 occupancies, fire protection of structutal members in roof construction shall not be required, including protection of primary structural frame members, roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below. Fire-retardanttreated wood members shall be allowed to be used for such unprotected members. c. In all occupancies, heavy timber complying with sectio 2304.11shall be allowed d. Not less than the fire-resistance rating required by other sections of this code. e. Not less than the fire-resistance rating based on fire separation distance (see



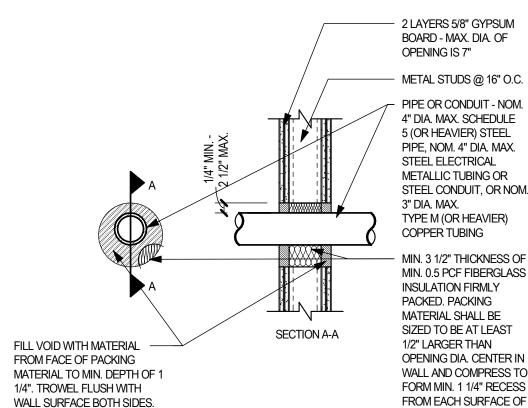


PENETRATING ITEM

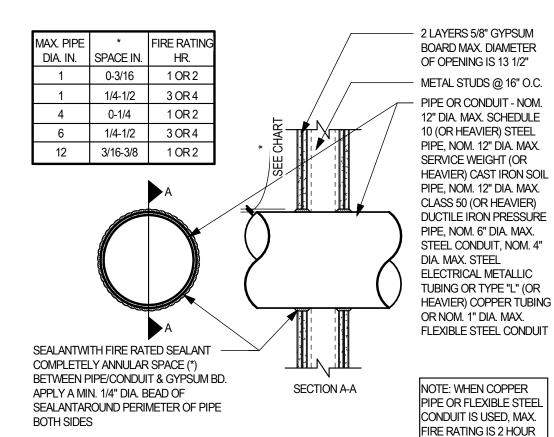












PENETRATION - RATED WALL 1, 2, 4 HOUR UL# W-L-1001 UL WL1001 REVISED: 03/22/2016

**ISSUED FOR:** DRAWN BY **CHECKED BY** APPROVED B 4/13/2023

> 21-036 PROJECT NUMBER SHEET **NUMBER:**

PROJECT DATE

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\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

 Wood Studs — Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped 2. Joints and Nail-Heads — Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint

3. **Gypsum Board\*** — 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6, 6A or 6B, Steel Framing Members\*. When Items 6, 6B, or 6C Steel Framing Members\*, are used, gypsum panels attached to furring channels with 1 in. long Type S

bugle-head steel screws spaced 12 in. OC. When Item 6A, Steel Framing Members\*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3. When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway

ACADIA DRYWALL SUPPLIES LTD — Type X (finish rating 22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior

AMERICAN GYPSUM CO — Types AGX-1(finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min), Type LightRoc (finish rating 22 min) or Type AG-C **BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO** — Type DBX-1 (finish rating 24 min)

CERTAINTEED GYPSUM INC — Type 1, Type SF3 (finish rating 20 min) or FRPC; Type C, Type X or Type X-1

(finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min) CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min),

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 34 min), Type LGFC2A. Type LGFC-C/A. Type LGFC-WD. Type LGLLX (finish rating 21 min) GEORGIA-PACIFIC GYPSUM L L C — Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC. Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit -Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22

min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSW-C, Type FSW-6

(finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8 PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG-5WS, PGS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 or Type PG-C PANEL REY S A — Type GREX, PRX, PRC, PRC2; Types RHX, MDX, ETX (finish rating 22 min) SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min)

THAI GYPSUM PRODUCTS PCL — Type C, Type X (finish rating 26 min) UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X1 X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULIX (finish rating 20 min) **USG MEXICO S A DE C V** — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (finish

3A. **Gypsum Board\*** — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beyeled, square, or tapered edges. applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally AMERICAN GYPSUM CO — Types AGX-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), Type AG-C (finish rating 25 min.)

**CERTAINTEED GYPSUM INC** — Type C, Type X or Type X-1 (finish rating 26 min) CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min) UNITED STATES GYPSUM CO — Type AR (finish rating 24 min). Type SCX (finish rating 24 min). Type SGX (finish rating 24 min). rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type FRX-G (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

USG BORAL ZAWAWI DRYWALL L L C SFZ — Types C, SCX USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX, Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min) 3B. Gypsum Board\* — (As an alternate to Item 3) — Nom 3/4 in. thick, installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-3/8 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A.

CGC INC — Types AR, IP-AR UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR 3C. **Gypsum Board\*** — (As an alternate to Items 3, 3A and 3B) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally to one side of the assembly. Installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-1/4 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required. CGC INC — Type SHX

UNITED STATES GYPSUM CO — Type SHX

USG MEXICO S A DE C V — Type SHX 3D. **Gypsum Board\*** — (As an alternate to Items 3, 3A, 3B, or 3C — Not Shown) — For Direct Application to Studs Only-Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

**RAY-BAR ENGINEERING CORP** — Type RB-LBG (finish rating 24 min) 3E. **Gypsum Board\*** — (As an alternate to Items 3, 3A, 3B, 3C, and 3D) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

GEORGIA-PACIFIC GYPSUM L L C — Type DGG (finish rating 20 min), GreenGlass Type X (finish rating 23 min) 3F. Gypsum Board\* — (As an alternate to Items 3, 3A, 3B, 3C, 3D, and 3E) — 5/8 in. glass-mat faced with square edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC around the perimeter and in the field with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Nails shall be placed 1 inch and 3 inch from horizontal joints and 7 inch OC thereafter.

**CGC INC** — Type USGX (finish rating 22 min) **UNITED STATES GYPSUM CO** — Type USGX (finish rating 22 min.)

**USG MEXICO S A DE C V** — Type USGX (finish rating 22 min.) 3G. Gypsum Board\* — (As an alternate to Items 3 through 3F) — 5/8 in. thick paper surfaced applied vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min) 3H. Gypsum Board\* — (As an alternate to Items 3) — Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically only. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in.

NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board 31. Gypsum Board\* — (As an alternate to Items 3 through 3H, Not Shown) -Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound. PABCO BUILDING PRODUCTS L.L.C, DBA PABCO GYPSUM -Type QuietRock ES (finish rating 20 min) 3J. Gypsum Board\* — (As an alternate to Item 3) — Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically only. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in.

diam heads. **CERTAINTEED GYPSUM INC** — Type SilentFX 3K. **Gypsum Board\*** — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges,

applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 8 in. OC with the last screw 1 in. from the edge of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally. NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min). Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSW-6

(finish rating 20 min) 3L. Gypsum Board\* — (As an alternate to Item 3) — For Direct Application to Studs Only — Nom 5/8 in, thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick. compression fitted or adhered over the screw heads. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades

MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum" 3M. **Gypsum Board\*** — (As an alternate to Items 3) — For Direct Application to Studs Only — For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in, diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face laver gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall 3N. **Gypsum Board\*** — (As an alternate to Item 3) — 5/8 in. thick, 4 ft. wide, applied horizontally or vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 3. **CERTAINTEED GYPSUM INC** — 5/8" Easi-Lite Type X (finish rating 24 min)

30. Wall and Partition Facings and Accessories\* — (As an alternate to Item 3. Not Shown) — Nominal 5/8 in. thick. 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527 (finish rating 24 min). 3P. Gypsum Board\* — (As an alternate to Item 3, Not Shown) — Two layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by wood studs. Horizontal joints on the same side between face and base layers need not be staggered. Base layer gypsum panels fastened to studs with 1-1/4 in. long drywall nails spaced 8 in. OC. Face layer gypsum panels fastened to studs with 1-7/8 in. long drywall nails spaced 8 in. OC starting with a 4" stagger. **NATIONAL GYPSUM CO** — Type FSW (finish rating 25 min)

3Q. **Gypsum Board\*** — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally. CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

4. Steel Corner Fasteners — (Optional) — For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Comers of wall board shall be nailed to top and bottom plate using No. 6d cement coated nail 5. Batts and Blankets\* — (Optional — Required when Item 6A is used (RC-1)) — Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be

friction-fitted to completely fill the stud cavities.

JOHNS MANVILLE KNAUF INSULATION LLC MANSON INSULATION INC OWENS CORNING HT INC, DIV OF OWENS CORNING — Coming Fiberglas Corp ROCK WOOL MANUFACTURING CO — Delta Board **ROXUL INC** — Acoustical Fire Batts

**THERMAFIBER INC** — Type SAFB 5A. Fiber, Sprayed\* — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft3, in accordance with the application instructions supplied with the product. When Item 6B is used, Fiber, Sprayed shall be INS735, INS745, INS765LD or

**US GREENFIBER LLC**—INS735& INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only 5B. Fiber, Sprayed\* — (Not Shown - Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

**NU-WOOL CO INC** — Cellulose Insulation 5C. Batts and Blankets\* — Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, friction-fitted to fill interior of wall.

5D. Glass Fiber Insulation — (As an alternate to Item 5C) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies 5E. Batts and Blankets\* — (Required for use with Wall and Partition Facings and Accessories, Item 3D) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of

5F. Fiber, Sprayed\* — (Optional, Not Shown — Not for use with Items 6, 6A or 6B) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied granulated mineral fiber material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Se Fiber. Sprayed (CCAZ).

AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool 5G. Fiber, Sprayed\* — (Optional, Not Shown — Not for use with Items 6, 6A or 6B). — As an alternate to Batts and Blankets (Item 5) and Item 5A - Brown Colored Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed stud cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft3. INTERNATIONAL CELLULOSE CORP — Celbar-RL

6. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring

b. Steel Framing Members\* — Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

6A. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members on one side of a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members\* — Used to attach furring channels (Item 6Aa) to one side of studs only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips. **KINETICS NOISE CONTROL INC** — Type Isomax 6B. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as b. Steel Framing Members\* — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC. Genie clips

secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted PLITEQ INC — Type Genie Clip 6C. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described

a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 3. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips located approximately 2 in. from each end of length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge. b. Steel Framing Members\* — Used to attach furring channels (Item 6Ca) to studs. Clips spaced 16 in. OC., and

secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted **STUDCO BUILDING SYSTEMS** — RESILMOUNT Sound Isolation Clips - Type A237 or A237R 7. Furring Channel — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required 8. Caulking and Sealants — (Not Shown, Optional) — A bead of acoustical sealant applied around the partition

perimeter for sound control 9. STC Rating — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, A. Item 2, above — Nailheads Shall be covered with joint compound.

B. Item 2, above — Joints As described, shall be covered with fiber tape and joint compound. C. Item 5, above — Batts and Blankets\* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide. D. Item 6, above — Steel Framing Members\* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly. E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition

perimeter for sound control. F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC rating 10. Wall and Partition Facings and Accessories\* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to

fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510 11. Cementitious Backer Units\* — (Optional Item Not Shown — For Use On Face Of 1 Hr Systems With All Standard Items Required) - 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing.

NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus 12. Non-Bearing Wall Partition Intersection — (Optional) —Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Intersection between partition wood studs to be lush with the 2 by 4 in, studs. The wall partition wood studs are to be framed by with a second 2 by 4 in, wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall. 13. Mesh Netting — (Not Shown) — Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation of the sprayed fiber from the opposite row Mineral and Fiber Board\* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

**HOMASOTE CO** — Homasote Type 440-32 14A. Mineral and Fiber Board\* — (Optional, Not Shown) — For use with Items 14B-14E) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. **HOMASOTE CO** — Homasote Type 440-32

14B. Glass Fiber Insulation — (For use with Item 14A) — 3-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies 14C. Batts and Blankets\* — (As an alternate to Item 14B, For use with Item 14A), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in, face of the study with staples placed 24 in, OC.

**THERMAFIBER INC** — Type SAFB 14D. Adhesive — (For use with Item 14A) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A) 14E. **Gypsum Board\*** — (For use with Item 14A) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 14A). Secured to outermost stu



JL RATED INTUMESCENT

FOR UL JOINT ASSEMBLY

BOARD WITH 1 LAYER @ 1

RATED BARRIOERS

- UL RATED C.M.U

**BEAM PENETRATION** 

HOUR FIRE RATED BARRIERS

AND 2 LAYERS @ 2 HOUR FIRE

UL RATED INTUMESCENT SEALANT @

PERIMETER OF GYPSUM BOARD

5/8" TYPE 'X' RATED GYPSUM

SEALANT APPLIED AS REQUIRED

THE DOW CHEMICAL CO - Type Thermax

Bearing the UL Classification Mark

\ A13.1 \ SCALE: 1" = 1'-0"

RATED WALL

13 RATED WALL @ BEAM

、A13.1 / SCALE: 1" = 1'-0"

042200-13

TRACK @ VERTICAL

SECTION @ VERTICAL

JOINT @ BEAM

\ A13.1 \ SCALE: 1" = 1'-0"

092216-10

JOINTS (FINISHED)

UL U905

/ SCALE: 1" = 1'-0"

8" NOM. C.M.U. Concrete Blocks\* - Various designs. HORIZ. TRUSS MESH @ Classification D-2 (2 hr). See **Concrete Blocks** category for list of eligible manufacturers. 16" O.C. VERT. 2. Mortar - Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime NOTE: THIS DETAIL IS (by cement volume). Vertical joints staggered. FOR TYPE F.E. IN FIRE B. Portland Cement Stucco or Gypsum Plaster - Add 1/2 hr to classification if used. Where combustible members RATED WALL are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1) 4. Loose Masonry Fill - If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary GROUT SOLID AROUND Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 F.E. CABINET hr to classification 6" NOM. C.M.U. 5. Foamed Plastic\* - (Optional-Not Shown) - 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks

HORIZ. TRUSS MESH

NOM. C.M.U., REFER TO

PLANS AND SECTIONS FOR

USE ONLY WHERE WALL

YPE "A" CABINET FIRE

INGUISHER

@ C.M.U. WAL

REVISED: 2/25/09

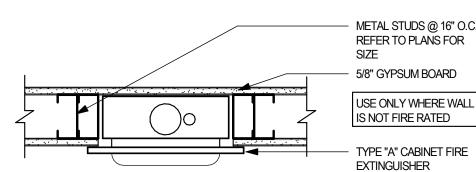
TYPE "A" CABINET FIRE

EXTINGUISHER

IS NOT FIRE RATED

@ 16" O.C. VERT.

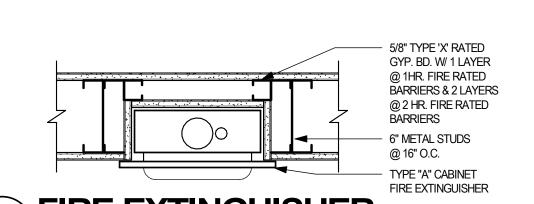
TYPE "A" CABINET FIRE EXTINGUISHER FIRE EXTINGUISHER @ RATED C.M.U. WALL A13.1 / SCALE: 1 1/2" = 1'-0"



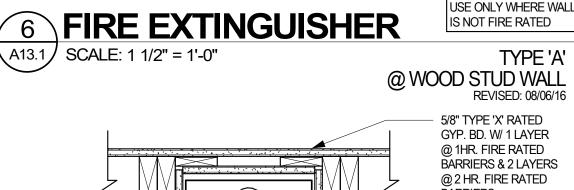
FIRE EXTINGUISHER

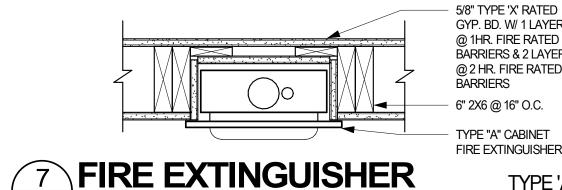
、A13.1丿 SCALE: 1 1/2" = 1'-0"

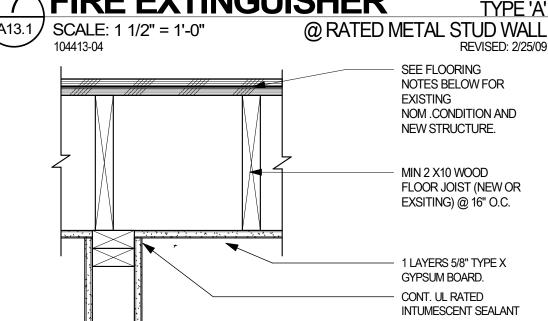
FIRE EXTINGUISHER TYPE 'A' A13.1 / SCALE: 1 1/2" = 1'-0" @ METAL STUD WALL



FIRE EXTINGUISHER @ RATED METAL STUD WALL A13.1 / SCALE: 1 1/2" = 1'-0" WOOD STUDS @ 16" O.C., REFER TO PLANS FOR SIZE 5/8" GYPSUM BOARD

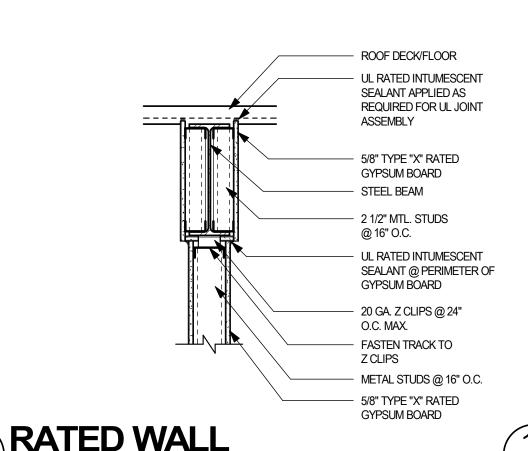




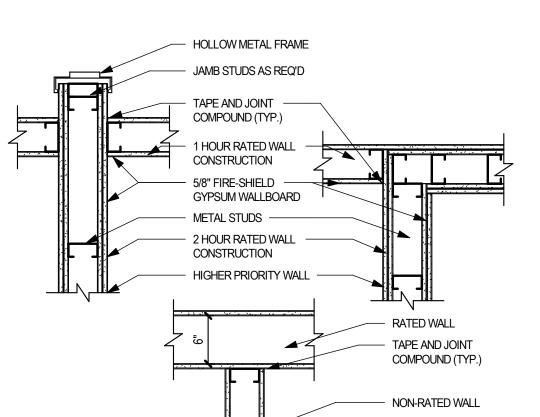


GA FILE NO. FC 5410; GENERIC - WOOD JOIST & GYPSUM BOARD ONE LAYER 5/8" TYPE X GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES TO 2 X 10 MIN. WOOD JOISTS 16 "O.C. WITH 5D NAILS 1 5/8" LONG, 0.099 SHANK, 1.4" HEADS, 6" O.C. NAILS PLACED 3/4" FROM BOARD EDGE JOINTS AMD 1/2" FROM BOARD END JOINTS WOOD JOISTS SUPPORTING 1" NOM. T & G WOOD SUB FLOOR (NEW OR EXISTING) AND 1" NOMINAL WOOD FINISH FLOOR (NEW OR EXISTING); OR 1-/32" PLYWOOD FINISHED FLLOR WITH LONG EDGED T & G AND 15/32" INTERIOR PLYWOOD WITH EXTERIOR GLUE SUBFLOOR PERPENDICULAR TP JOIST WITH SJOINTS STAGGERED.

FIRE RATED ASSEMBLY HORIZONTAL WOOD FLOOR A13.1 / SCALE: 1 1/2" = 1'-0" **TYPICAL** REVISED: 09/23/09



REVISED: 09/16/09



14 RATED WALL INTERSECTIONS A13.1) SCALE: 1" = 1'-0"

WALL PRIORITY LEGEND

1 HOUR FIRE BARRIER -----

2 HOUR SHAFT WALL --

1 HOUR SHAFT WALL -----

SMOKE TIGHT PARTITION-----

NON-RATED WALL -----

092216-03

LOWEST PRIORITY -

19 WALL PRIORITY LEGEND 092216-08 REVISED: 09/15/09

2 HOUR FIRE WALL (OR HIGHER) ----- PRIORITY 1 HIGHEST

----- PRIORITY 2

----PRIORITY 3

---PRIORITY 5

---PRIORITY 4

----PRIORITY 6 LOWEST

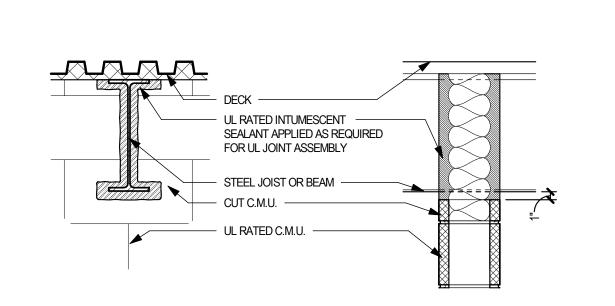
2 HOUR FIRE BARRIER -----PRIORITY 2

\ A13.1 \ SCALE: 1" = 1'-0" 092216-05

STEEL JOIST OR DECK BEAM ABOVE WAL UL RATED INTUMESENT UL RATED INTUMESENT SEALANT SYSTEM, BOTH SIDES SEALANT SYSTEM, 5/8" TYPE X RATED GYP. BD. BOTH SIDES -W/ 1 LAYER @ 1 HR. FIRE ACOUSTIC INSULATION RATED BARRIERS & 2 LAYERS @ NONRATED WALLS TO @ 2 HR. FIRE RATED 24 GA. OR HEAVIER MTL. 24 GA. OR HEAVIER MT. STUD FRAMING STUD FRAMING UL RATED INTUMESENT UL RATED INTUMESENT SEALANT @ PERIMETER SEALANT @ PERIMETER OF OF GYP. BD. SOLID C.M.U UL RATED NOM. C.M.U. Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design

> **UL RATED INTUMESENT** SEALANT SYSTEM, BOTH SIDES **UL APPROVED JOINT** 24 GA. OR HEAVIER MT. ASSEMBLY STUD FRAMING SOLID C.M.U. 5/8" TYPE X RATED GYP. BD. W/ 1 LAYER @ 1 HR. FIRE RATED STEEL JOIST OR BEAM BARRIERS & 2 LAYERS @ 2 HR. ABOVE WALL FIRE RATED BARRIERS UL RATED INTUMESENT SEALANT UL RATED NOM. C.M.U. @ PERIMETER OF GYP. BD.

HEAD OF WALL @ PARALLEL STRUCTURE 、A13.1 / SCALE: 1" = 1'-0"



Fire Resistance Ratings - ANSI/UL 263BXUVU906Design No. U906

Bearing Wall Rating - 2 HR.

Nonbearing Wall Rating - 2 HR.

HORIZONTAL SECTION

Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical

2. Mortar - Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of

clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime

8. Portland Cement Stucco or Gypsum Plaster - Add 1/2 hr to Classification if used. Attached to concrete blocks

4. Foamed Plastic\* - (Optional-Not Shown) - 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks

REVISED: 00/00/00

Load Restricted for Canadian Applications - See Guide BXUV

1. Concrete Blocks\* - Nominal 6 by 8 by 16 in, hollow or solid.

ANCHOR CONCRETE PRODUCTS INC

**GAGNE & SON CONCRETE BLOCK INC** 

OLDCASTLE APG NE DBA ARTHUR WHITCOMB

WESTBROOK CONCRETE BLOCK CO INC

THE DOW CHEMICAL CO - Type Thermax

**UL NO. U906** 

(by cement volume). Vertical joints staggered.

SCALE: 1" = 1'-0"

Bearing the UL Classification Mark

Classification D-2 (2 hr).

design method.

UL U906

REVISED: 00/00/00

@ RATED WALL

UL RATED INTUMESCENT

SEALANT SYSTEM, BOTH

STEEL JOIST OR BEAM

GYPSUM BOARD WITH 1

LAYER AT 1 HOUR FIRE

RATED BARRIERS AND 2

RATED BARRIERS

MIN. 22 GA. 2 1/2"

METAL STUDS

LAYERS AT 2 HOUR FIRE

UL RATED INTUMESCENT

@ BEAM

1&2HOUR

REVISED: 09/22/09

SEALANT AT PERIMETER

OF GYPSUM BOARD

UL RATED C.M.U.

STEEL BEAM

ROOF DECK/FLOOR

UL RATED INTUMESCENT

REQUIRED FOR UL JOINT

20 GA. ANGLE OR TRACK,

SEALANT APPLIED AS

ASSEMBLY EACH SIDE

FASTEN 2'-0" O.C. MAX.

5/8" TYPE 'X' RATED

TRACK OR STUD@

VERTICAL JOINTS,

TRACK @ TOP

Z CLIPS

O.C. MAX.

REQUIRED

METAL STUD/GYP. BD.

REVISED: 09/15/09

FASTEN TRACK TO

- 20 GA. Z CLIPS @ 24"

MINERAL WOOL AS

1 OR 2 HOUR

ATTACH TO ANGLE OR

GYPSUM 1 OR 2 LAYERS

EACH SIDE AS REQUIRED

5/8" TYPE 'X' RATED

DECK

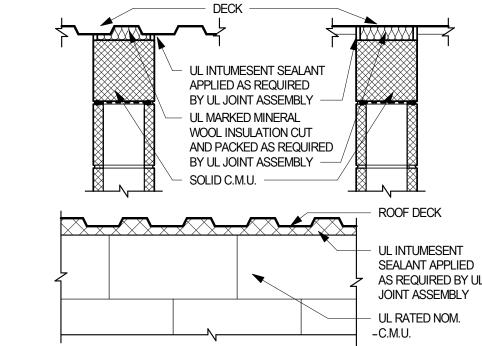
SIDES

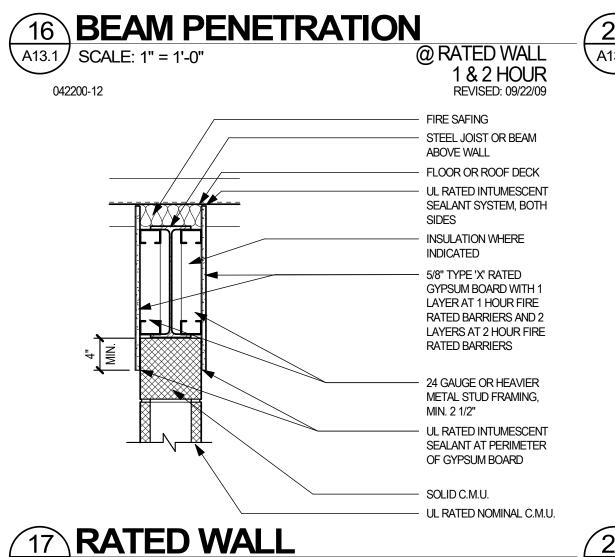
FIRE SAFING

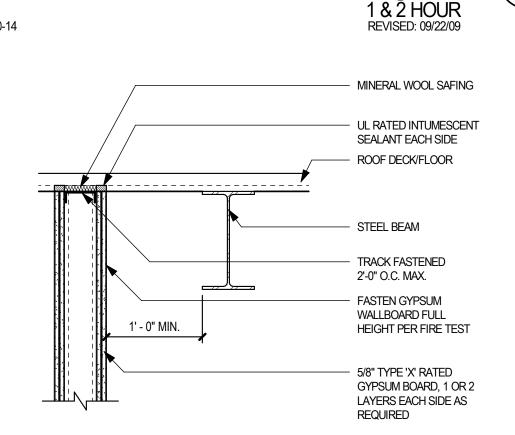
ABOVE WALL

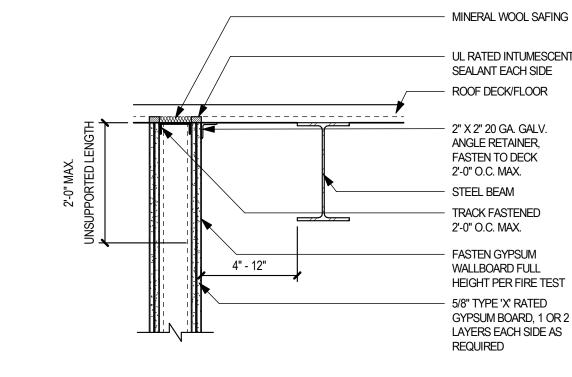
1 & 2 HOUR

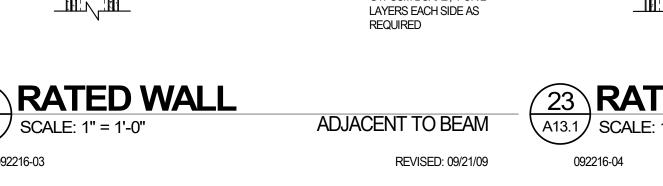
REVISED: 09/22/09





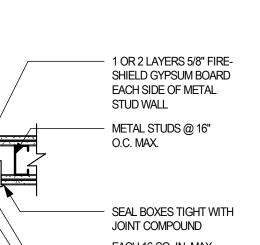






- HIGHEST PRIORITY





**ISSUED FOR:** 

**BID SET** 

DRAWN BY

CHECKED BY

APPROVED BY

4/13/2023

PROJECT DATE

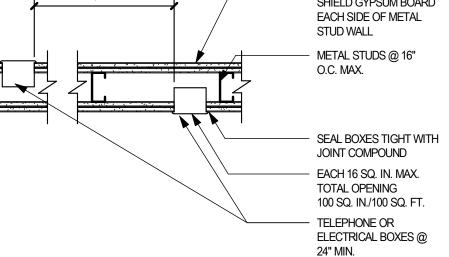
21-036

PROJECT NUMBER

SHEET

**NUMBER:** 

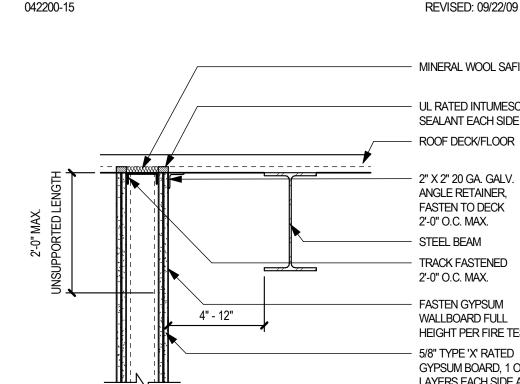
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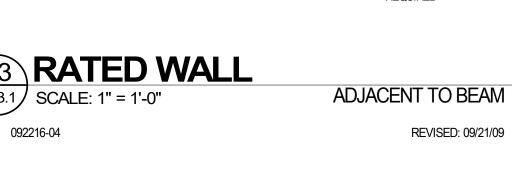


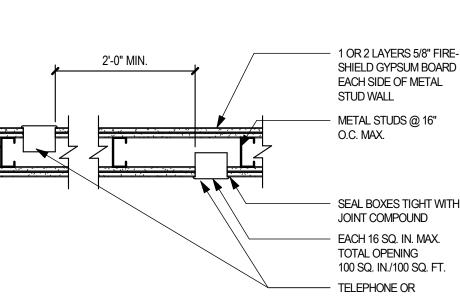
21 RATED WALL DETAIL \A13.1 \ SCALE: 1" = 1'-0" @ ROOF DECK

STEEL JOIST OR BEAM ABOVE WALL UL RATED INTUMESCENT SEALANT SYSTEM, BOTH SIDES INSULATION WHERE INDICATED, WALLS TO DECK 5/8" TYPE 'X' RATED GYPSUM BOARD WITH 1 LAYER AT 1 HOUR FIRE RATED BARRIERS AND 2 LAYERS AT 2 HOUR FIRE RATED BARRIERS 24 GAUGE OR HEAVIER METAL STUD FRAMING, MIN. 2 1/2" **UL RATED INTUMESCENT** SEALANT AT PERIMETER OF GYPSUM BOARD SOLID C.M.U. UL RATED NOMINAL C.M.U. 22 RATED WALL @JOIST 1&2 HOUR

REVISED: 2/25/09

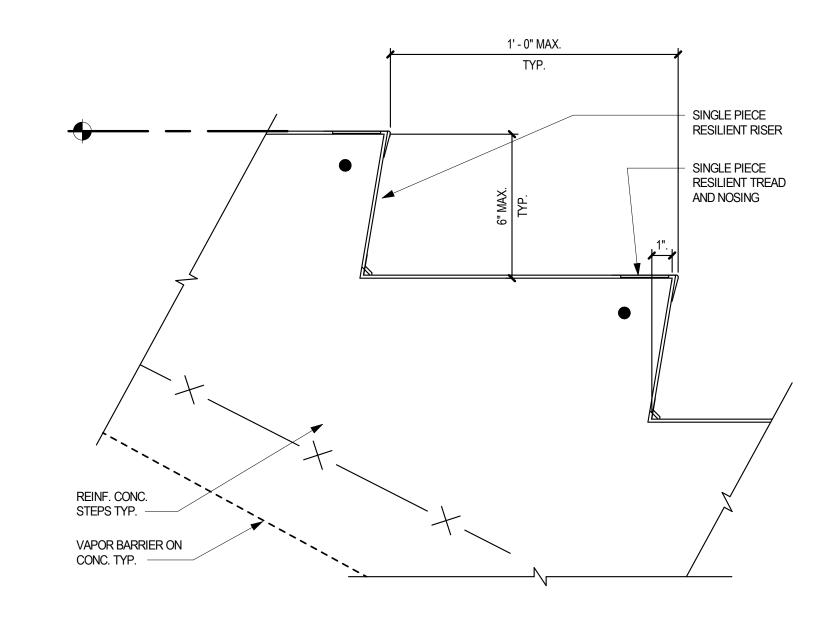




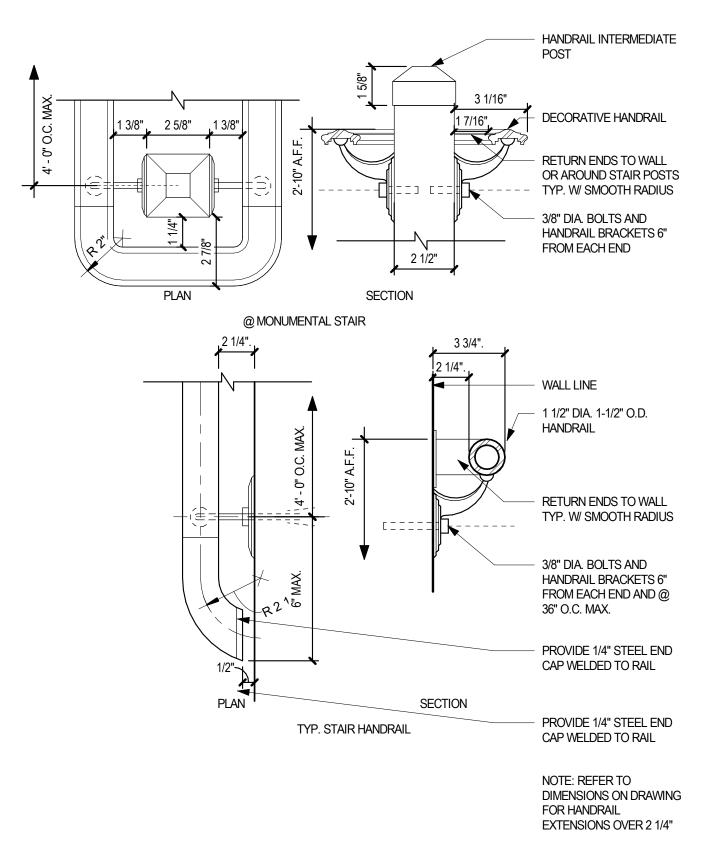


**24 WALL PENETRATIONS OUTLET BOXES** 

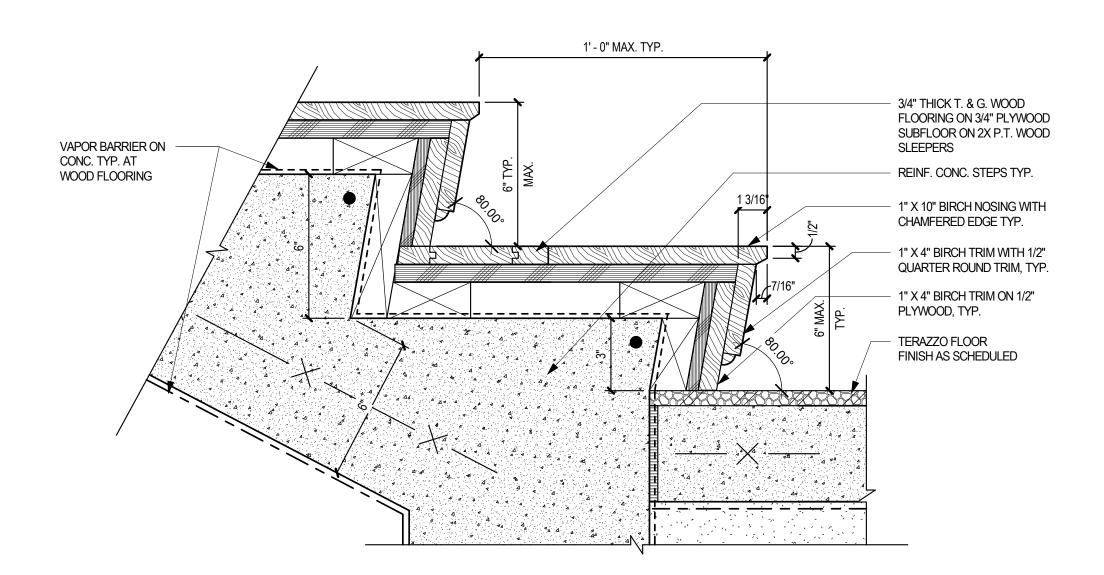
## 1 TYPICAL STAIRS CONCRETE A17.0 SCALE: 1 1/2" = 1'-0"



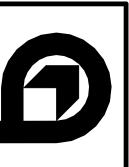
### 3 RESILIENT TREAD & RISER A17.0 SCALE: 3" = 1'-0"



2 **HANDRAIL** SCALE: 3" = 1'-0"



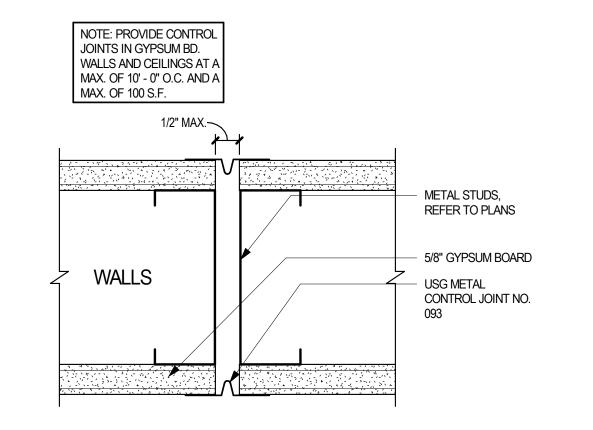
4 WOOD CLAD STAIR @ BOTTOM
SCALE: 3" = 1'-0"

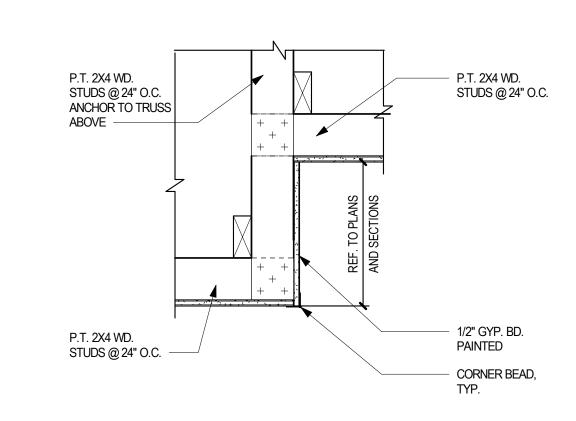


**ISSUED FOR:** 

**BID SET** 

SHEET NUMBER:



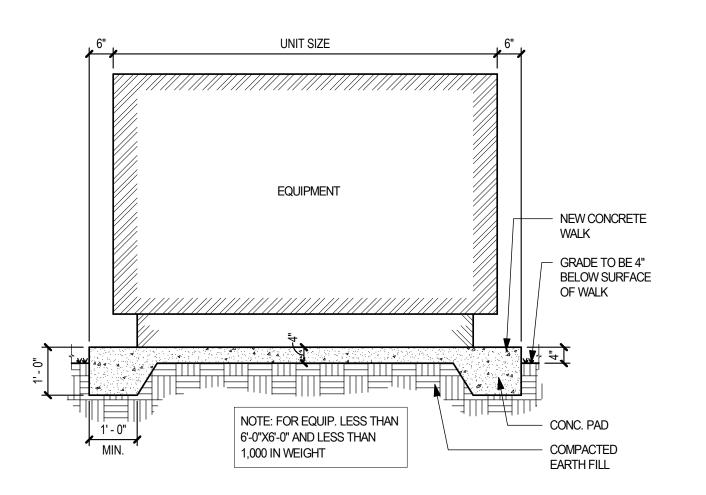


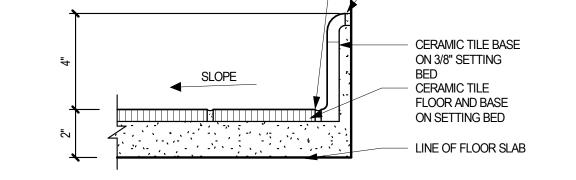
3 2X WOOD STUD FURRING
A17.1 SCALE: 1 1/2" = 1'-0"



4 SMALL MECH. EQUIP. PAD

SCALE: 1/2" = 1'-0"





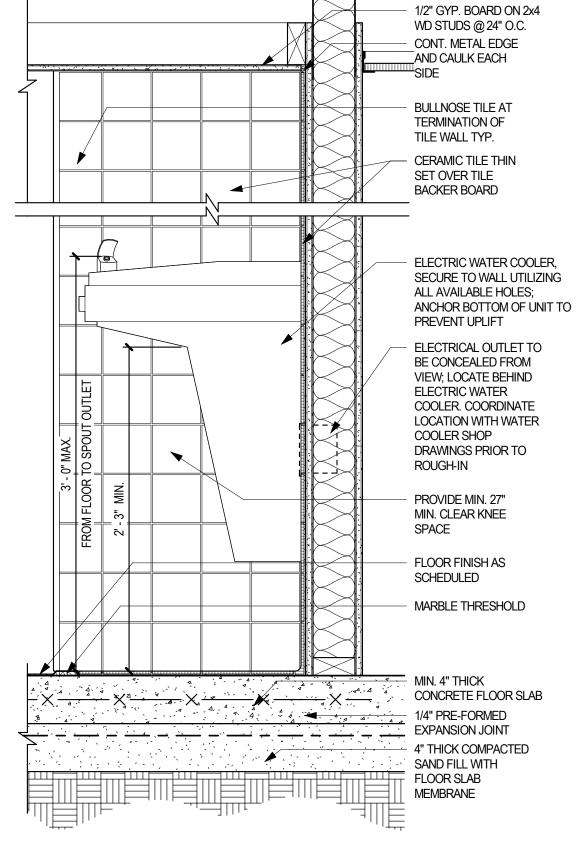
LINE OF WALL

--- CONT. CAULK

- EXPANSION JOINT

# 5 MISC. - CERAMIC TILE BASE SCALE: 3" = 1'-0"

2 CONTROL JOINT
SCALE: 6" = 1'-0"



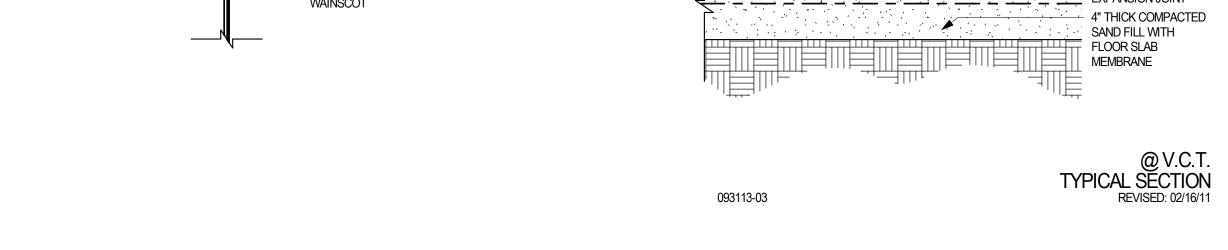
BULLNOSE TILE

GYP BD. PAINTED

THIN SET

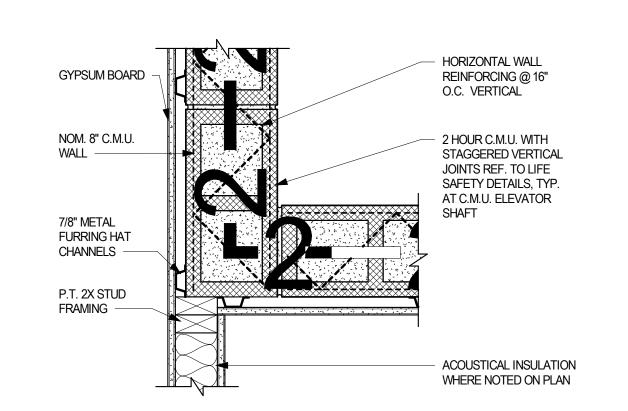
CERAMIC TILE

WAINSCOT

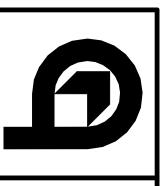












SAND CULTURAL AUTHORITY OF CLAXTON & EVANS COUNTY CLAXTON, GE

JAMES W. BUCKLEY & ASSOCIATES INC. -- ARCHITECTS

SWAINSBORD, ALBANY, ROME, AND SAVANNAH
GEORGIA

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ISSUED FOR:
BID SET

JRW
DRAWN BY
Checker
CHECKED BY
Approver
APPROVED BY
4/13/2023

SHEET NUMBER:

PROJECT NUMBER

### STRUCTURAL NOTES

- 1. DO NOT SCALE DRAWINGS. FOLLOW DIMENSIONS SHOWN ON PLAN OR OBTAIN
- 2. CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN HEREIN WITH ARCHITECTURAL PLANS, SECTIONS, AND DETAILS PRIOR TO CONSTRUCTION OR MATERIAL PURCHASE. CONTRACTOR SHALL NOTIFY ARCHITECT IN
- ALL DIMENSIONS AND ELEVATIONS NOT SHOWN HEREIN. 3. WHERE DETAIL OR SECTION IS SHOWN FOR ONE CONDITION. IT SHALL APPLY TO ALL LIKE OR SIMILAR LOCATIONS.
- 4. CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF AND SHALL NOTIFY THE ARCHITECT IN WRITING PRIOR TO SUBMITTING BIDS.

WRITING OF ANY DISCREPANCIES NOTED. REFER TO ARCHITECTURAL DRAWINGS FOR

- 5. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION, OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
- 6. NO CHANGE IN SIZE OR DIMENSION OF ANY STRUCTURAL MEMBER SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD UNLESS SPECIFICALLY DETAILED ON THE CONTRACT DRAWINGS.
- 7. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING
- SUCH REQUIREMENTS INTO THE SHOP DRAWINGS AND CONSTRUCTION ACTIVITIES. 8. THE USE OF REPRODUCTIONS OF CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER, IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR
- IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON. 9. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS
- 10. CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR MEANS, METHODS, SAFETY, TECHNIQUES, SEQUENCES, AND PROCEDURES OF ALL CONSTRUCTION SHOWN HEREIN. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTIBILITY, ANALYSIS, AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION OF FALSE WORK, TEMPORARY BRACING, ETC. CONTRACTOR HAS THE SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
- 11. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.

#### EXISTING CONSTRUCTION:

- 1. DIMENSIONS INDICATED RELATIVE TO EXISTING STRUCTURES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION OR MATERIAL PURCHASE.
- CONTRACTOR SHALL NOTIFY ARCHITECT IN WRITING OF DISCREPANCIES. BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING STRUCTURE. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING STRUCTURAL AND OTHER CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACING, SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING WORK WHICH ARE TO REMAIN
- 3. BEFORE PROCEEDING WITH ANY WORK, THE CONTRACTOR SHALL PERFORM A PRE-CONSTRUCTION SURVEY OF THE EXISTING BUILDING AT LOCATIONS WHERE BUILDING ADDITIONS ARE TO BE CONSTRUCTED, AT INTERIOR OF BUILDING WITHIN 10 FEET OF ALL REMODELING WHICH AFFECTS EXISTING STRUCTURAL SYSTEMS, AND AT EXISTING EXTERIOR WALLS WHERE THEY ARE WITHIN 10 FEET OF A BUILDING ADDITION. CONTRACTOR SHALL FURNISH A REPORT TO THE ARCHITECT WHICH INCLUDES PHOTOGRAPHS WHICH DOCUMENT EXISTING BUILDING CRACKS OR OTHER COSMETIC FLAWS IN THE BUILDING. CONTRACTOR SHALL PROVIDE CRACK CONTROL MONITORS OR OTHER MONITORING DEVICES AS MAY BE WARRANTED BASED ON THE CONDITIONS
- 4. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. ELEVATIONS. ETC... NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE WORK TO THE EXISTING WORK. THE CONTRACTOR SHALL MAKE ALL FIELD MEASUREMENTS NECESSARY FOR THE COMPLETE DETAILING, FABRICATION, AND ERECTION OF ALL STRUCTURAL MEMBERS. ANY DISCREPANCY NOTED BETWEEN ASSUMPTIONS MADE ON THE DRAWINGS OF EXISTING FEATURES AND THE ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER. ALL DIMENSIONS OBTAINED IN FIELD AND USED AS A BASIS OF DETAILING SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS.
- 5. WHERE WELDING TO AND WITHIN THE EXISTING STRUCTURE IS REQUIRED, CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID FIRE HAZARDS AND STRUCTURAL LIQUEFACTION DURING WELDING AS NECESSARY AND IN ACCORDANCE WITH LOCAL BUILDING CODES AND OSHA REGULATIONS. SAFETY PRECAUTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE REMOVAL AND/OR PROTECTION OF EXISTING COMBUSTIBLE MATERIALS. THE CONTRACTOR SHALL NOT LEAVE THE SITE EACH
- DAY UNTIL SATISFIED THAT NO FIRE HAZARDS EXIST. 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ERECTION OF ALL SHORING NECESSARY TO SAFEGUARD THE EXISTING STRUCTURE. ANY SHORING SHOWN HEREIN IS A PARTIAL AND SCHEMATIC REPRESENTATION OF THAT REQUIRED.

### FOUNDATIONS:

- 1. FOUNDATION DESIGN IS BASED ON AN ASSUMED MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED OR DESIGNED.
- 2. ALLOWABLE BEARING PRESSURE SHALL BE VERIFIED BY FIELD TESTING IN ACCORDANCE WITH REQUIREMENTS OF THE PROJECT SPECIFICATIONS. IN THE ABSENCE OF SPECIFICATION REQUIREMENTS, A DYNAMIC CONE PENETROMETER TEST (ASTM STP-399) SHALL BE PROVIDED AT EACH COLUMN FOOTING EXCAVATION AND MAXIMUM 75' O.C. IN WALL FOOTINGS AND THICKENED SLABS TO VERIFY
- AVAILABILITY OF THE DESIGN PRESSURE INDICATED. 3. ALL FOOTINGS AND SLABS SHALL BEAR ON SUBGRADE COMPACTED TO A MINIMUM 95% ASTM D-1557 UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED IN PROJECT
- 4. ALL WATER SOFTENED SOILS IN FOUNDATION EXCAVATIONS SHALL BE REMOVED PRIOR TO POURING CONCRETE. FILL OVER-EXCAVATED LIMITS WITH COMPACTED STRUCTURAL FILL OR ADDITIONAL CONCRETE. 5. ALL BOTTOM REINFORCING IN FOOTINGS AND THICKENED SLABS SHALL BE SUPPORTED

WITH WHOLE CONCRETE BRICKS OR PREFABRICATED ALL PLASTIC CHAIR SUPPORT AT MAXIMUM 48" O.C. BAR SUPPORTS SHALL BE POSITIONED TO MAINTAIN NO LESS

THAN 3" CLEAR TO BOTTOM OF LOWEST REINFORCING BAR. 6. ALL FOOTING, PIER AND OTHER FOUNDATION TYPE REINFORCING SHALL BE TIED IN PLACE PRIOR TO POURING CONCRETE. AT NEXT LEVEL IS COMPLETED.

#### STEEL FRAMING:

- 1. ALL WIDE FLANGE STEEL SHAPES INCLUDING WT'S SHALL BE FABRICATED USING ASTM A992 GRADE 50 STRUCTURAL STEEL MATERIAL. ALL OTHER SHAPES, PLATES,
- BARS, ETC., SHALL BE ASTM A36 OR AS INDICATED IN SPECIFICATIONS. 2. ALL BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER (MIN.)
- ASTM F3125-15 (120 KSI TENSILE STRENGTH) HIGH STRENGTH TWIST-OFF TYPE 3. STEEL FRAMING, INCLUDING BOLTED AND WELDED CONNECTIONS, BRACING, AND
- ANCHORAGES SHALL BE COMPLETE AND PLUMB PRIOR TO PLACEMENT OF DECKS. 4. ALL STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM TO "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN"
- OF AISC 14<sup>TH</sup> EDITION. 5. ALL FABRICATIONS SHALL COMPLY WITH "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITIONS, AS PUBLISHED BY THE AMERICAN
- INSTITUTE OF STEEL CONSTRUCTION. 6. DO NOT FIELD CUT ANY STRUCTURAL STEEL WITHOUT PRIOR REVIEW AND

ACCEPTANCE OF THE ARCHITECT/ENGINEER.

7. NO SHOP SPLICE OR OTHER CONNECTION WILL BE PERMITTED UNLESS THAT SPLICE OR CONNECTION IS SHOWN ON THE SHOP DRAWINGS AND REVIEWED BY THE ENGINEER. 8. AFTER ALL FIELD WELDING IS COMPLETED, WELDS SHALL BE CLEANED OF ALL

WELDING SPOILS AND RE-PRIMED. SEE SPECIFICATIONS FOR ADDITIONAL

9. WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS. PROOF OF CERTIFICATION FOR EACH WELDER PERFORMING FIELD WELDING SHALL BE AVAILABLE AT THE JOB SITE. ALL WELDERS SHALL HAVE BEEN CERTIFIED WITHIN THE PREVIOUS 12 MONTHS IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS.

1. STEEL COLUMN BASES ARE DESIGNED AS "UN-RESTRAINED"; THEREFORE COLUMNS MUST BE KEPT BRACED UNTIL ALL HORIZONTAL FRAMING HAS BEEN INSTALLED. COLUMN ANCHOR RODS SHALL BE INSTALLED AND TIED IN PLACE PRIOR TO POURING CONCRETE. ANCHOR RODS SHALL NOT BE REPAIRED, REPLACED, OR MODIFIED BY THE CONTRACTOR WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

EXCEED A SPACING OF 3 TIMES THE WALL HEIGHT (30'-0" MAX.).

#### SPECIAL STRUCTURAL INSPECTIONS:

- 1. SPECIAL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED ON THIS PROJECT IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE
- IBC 2018 BUILDING CODE. 2. SPECIAL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN AGENCY SELECTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER OF RECORD (EOR) WHICH MEETS ALL OF THE REQUIREMENTS FOR APPROVAL INDICATED IN IBC 2018 SECTION 1704. SPECIAL INSPECTORS SHALL BE QUALIFIED PERSONS WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- 3. THE CONTRACTOR SHALL COORDINATE THE INSPECTION SERVICES IN ACCORDANCE WITH THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE TO THE INSPECTOR TO ALLOW PROPER
- SCHEDULING OF PERSONNEL. 4. THE COSTS OF THE SPECIAL INSPECTOR'S SERVICES SHALL BE PAID FOR BY THE OWNER. COSTS OF INSPECTION SERVICES WHICH ARE EXEMPTED UNDER CHAPTER 17 AND SPECIFIED IN THE PROJECT SPECIFICATIONS, SHALL BE PAID FOR BY THE CONTRACTOR.
- 1. SPECIAL INSPECTORS SHALL KEEP A RECORD OF ALL INSPECTIONS PERFORMED. COPIES OF ALL INSPECTIONS SHALL BE FURNISHED TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE EOR WITHIN 48 HOURS OF THE
- 2. REPORTS SHALL INDICATE THAT THE WORK WAS PERFORMED AND CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WORK WHICH DOES NOT CONFORM TO THE CONTRACT DOCUMENTS SHALL BE IDENTIFIED IN THE REPORT AND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR.
- 3. A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS INCLUDING ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE EOR PRIOR TO COMPLETION OF THE STRUCTURAL SYSTEMS BUT AT A FREQUENCY NOT TO EXCEED 60 DAYS.

#### C. REQUIRED SPECIAL INSPECTIONS

| IBC            |                                  | CDECTAL | INSPECTION | DECLITRED |
|----------------|----------------------------------|---------|------------|-----------|
| <del>-</del>   | DECORTETION OF WORK              |         |            |           |
| <u>SECTION</u> | DESCRIPTION OF WORK              | YES     | NO         | REMARKS   |
| 1704.2.5       | INSPECTION OF FABRICATORS        | Χ       |            | 1         |
| 1705.2         | STEEL CONSTRUCTION               | Χ       |            | 2         |
| 1705.3         | CONCRETE CONSTRUCTION            | Χ       |            | 3         |
| 1705.4         | MASONRY CONSTRUCTION             | Χ       |            | 4         |
| 1705.5         | WOOD CONSTRUCTION                |         | Χ          |           |
| 1705.6         | SOILS                            | Χ       |            | 5         |
| 1705.7         | DRIVEN DEEP FOUNDATION           |         | Χ          |           |
| 1705.8         | CAST-IN-PLACE DEEP FOUNDATIONS   |         | Χ          |           |
| 1705.9         | HELICAL PILE FOUNDATIONS         |         | Χ          |           |
| 1705.10        | WIND RESISTANCE                  | Χ       |            |           |
| 1705.11        | SEISMIC RESISTANCE               | Χ       |            |           |
| 1705.12        | TESTING AND QUALIFICATIONS FOR   |         |            |           |
|                | SEISMIC RESISTANCE               | Х       |            |           |
| 1705.13        | SPRAYED FIRE-RESISTANT MATERIALS |         | Χ          |           |
| 1705.14        | MASTIC AND INTUMESCENT COATINGS  |         | Χ          |           |
| 1705.15        | EXTERIOR INSULATION AND FINISH   |         |            |           |
|                | SYSTEMS (EIFS)                   |         | Χ          |           |
| REMARKS.       | ,                                |         |            |           |

- 1. WHERE FABRICATION OF STRUCTURAL LOAD BEARING ELEMENTS (I.E. JOISTS) ARE BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS ARE REQUIRED.
- STEEL SPECIAL INSPECTION: CONTINUOUS AND PERIODIC INSPECTIONS, AS DEFINED BY SECTION 202 OF THE IBC 2018 BUILDING CODE, SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705.2, QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360 AND
- TABLE 1705.2.2. 3. CONCRETE SPECIAL INSPECTION: CONTINUOUS AND PERIODIC INSPECTIONS, AS DEFINED BY SECTION 202 OF THE IBC 2018 BUILDING CODE, SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION
- 1705.3 AND TABLE 1705.3. 4. MASONRY SPECIAL INSPECTION: CONTINUOUS AND PERIODIC INSPECTIONS, AS DEFINED BY SECTION 202 OF THE IBC 2018 BUILDING CODE, SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION

1705.4 AND QUALITY ASSURANCE PROGRAM REQUIREMENTS OF ACI530/ASCE 5

5. SOILS SPECIAL INSPECTION: INSPECTION OF THE EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT AND LOAD BEARING REQUIREMENTS SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705.6 AND TABLE 1705.6.

### STRUCTURAL LEGEND

SYMBOLS

FOOTING \_ \_ \_ \_ UNREINFORCED CONCRETE MASONRY REINFORCED CONCRETE MASONRY CONCRETE BOND BEAM REINF. MASONRY PIERS DROP SLAB TO RECEIVE FLOOR FINISH THICKENED SLAB FLOOR JOINT WALL FLOOR JOINT SAWN JOINT \_\_\_SJ\_\_\_ 1" DEEP TOOLED JOINT \_ \_TJ\_\_\_ CONCRETE SLAB TURNDOWN SLOPE (DIRECTION AND DROP) VERTICAL STEP IN WALL FOOTING TOP OF STEEL ELEVATION T.O.S. 12'-6" TOP OF FOOTING ELEVATION ADD #4x4'-0" IN CENTERLINE OF SLAB HIGH STRENGTH BOLT

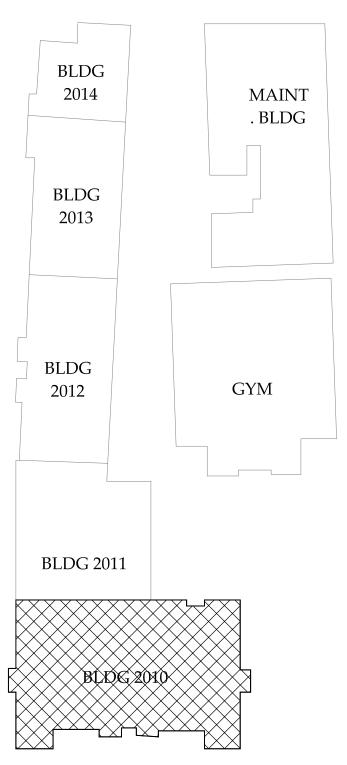
ABBREVIATIONS DBL. DOUBLE BOT. BOTTOM DOUBLE JOIST SIM SIMILAR THROUGHOUT U.N. UNLESS NOTED PRE-MOLDED EXPANSION JOINT GA. E.W. EACH WAY 0.C. ON CENTER CLEARANCE FLOOR DRAIN LONG LEG VERTICAL SHORT LEG VERTICAL EXPANSION JOINT METAL BUILDING MANUFACTURER METAL BUILDING PURLINS 0.H. OPPOSITE HAND PARALAM BEAM MICROLAM BEAM ROUGH SAWN PRESSURE TREATED PRE-ENGINEERED

#### STRUCTURAL SHEET INDEX

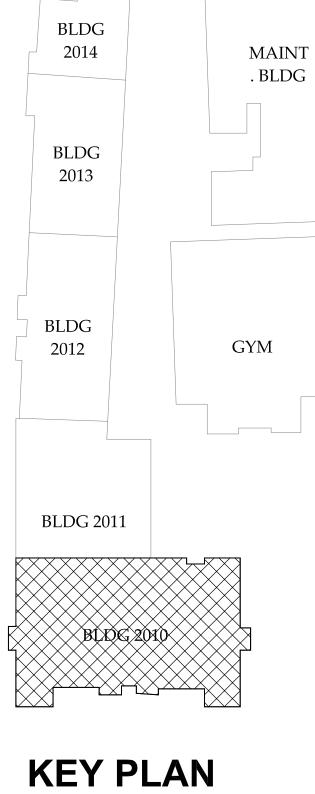
S1.0 STRUCTURAL NOTES

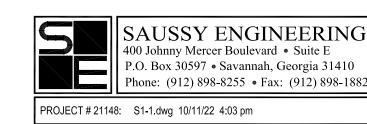
**\$1.1 FOUNDATION PLAN** S1.2 SECOND FLOOR FRAMING PLAN

**S1.3 ROOF FRAMING PLAN** 





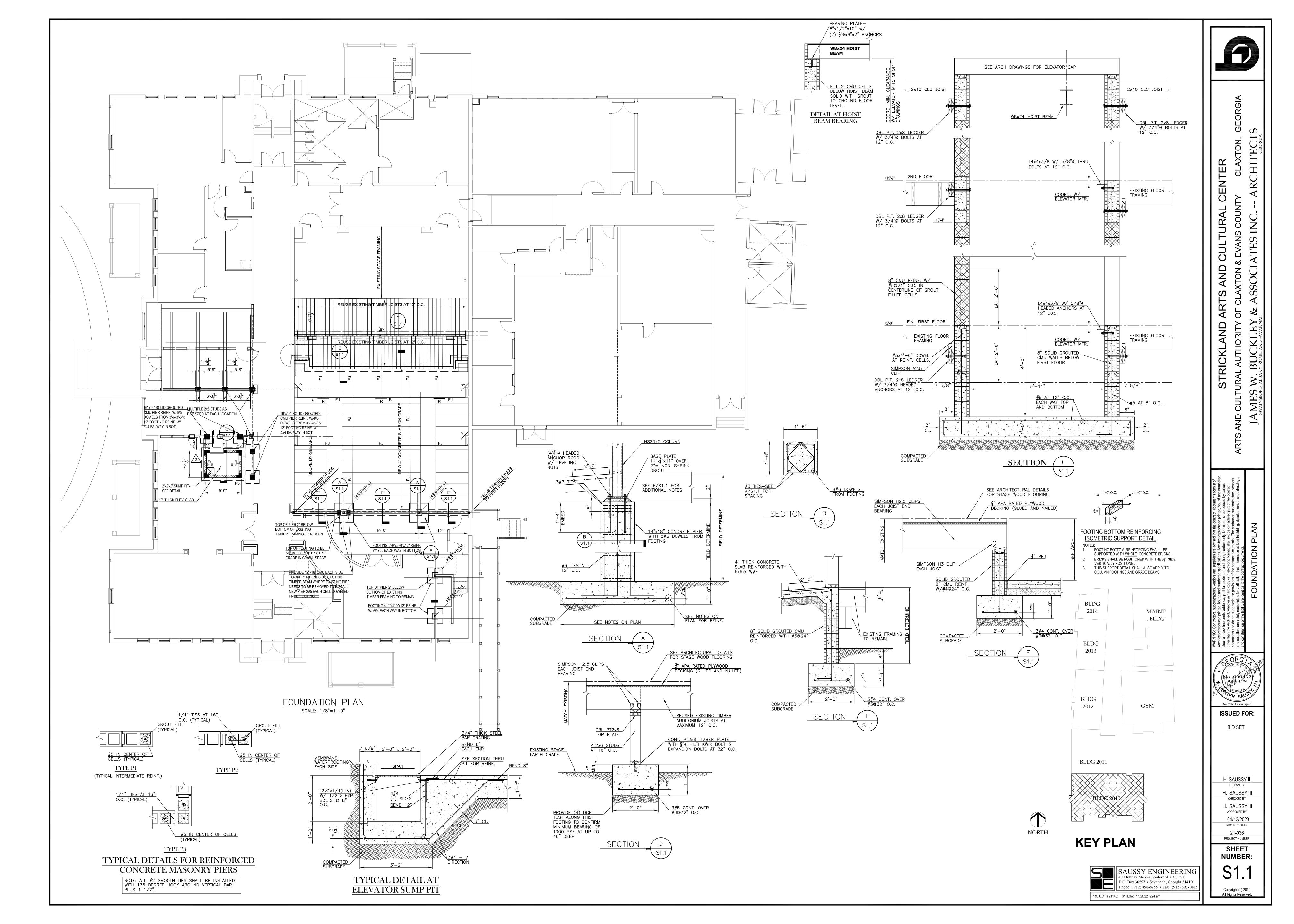


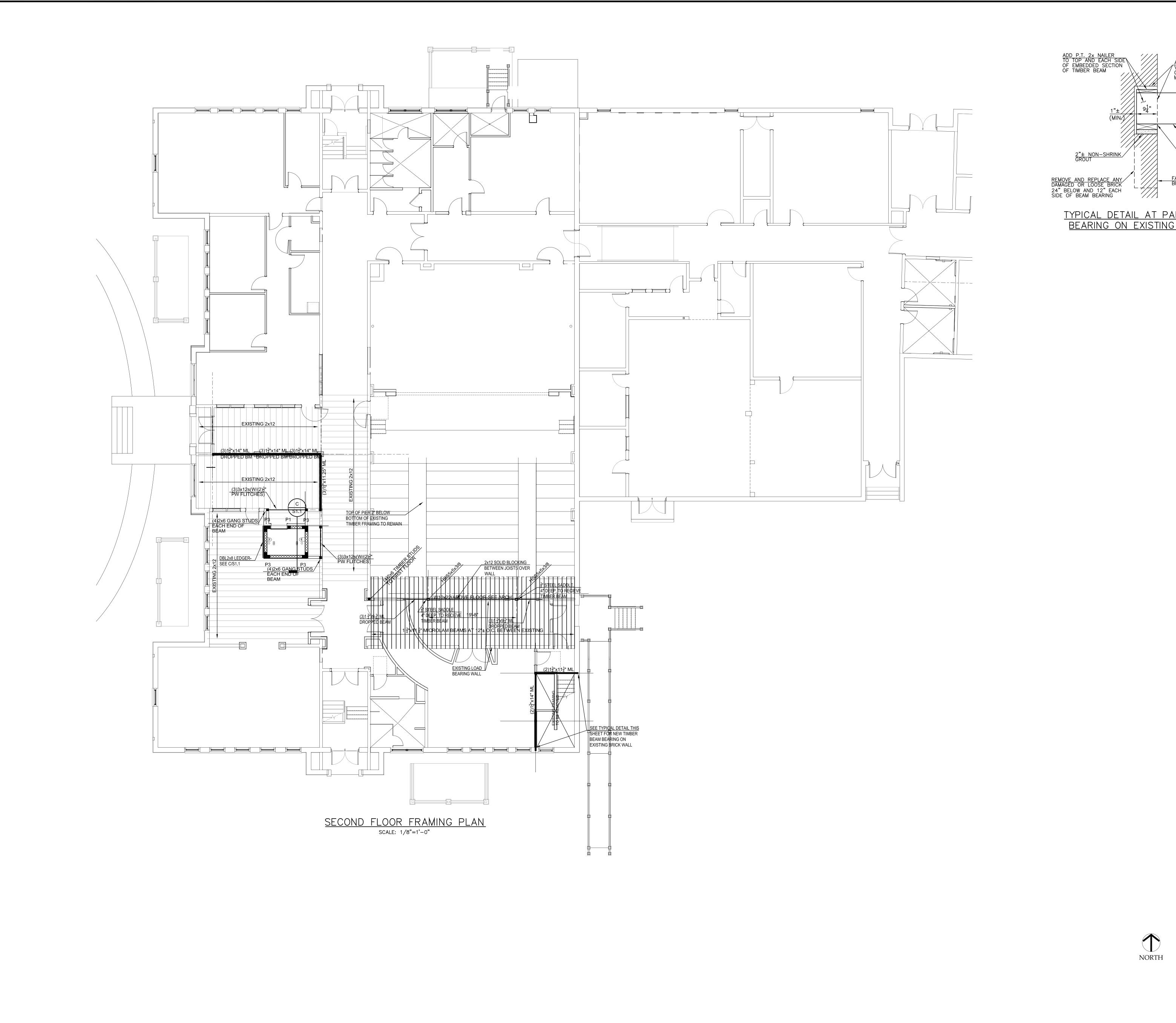


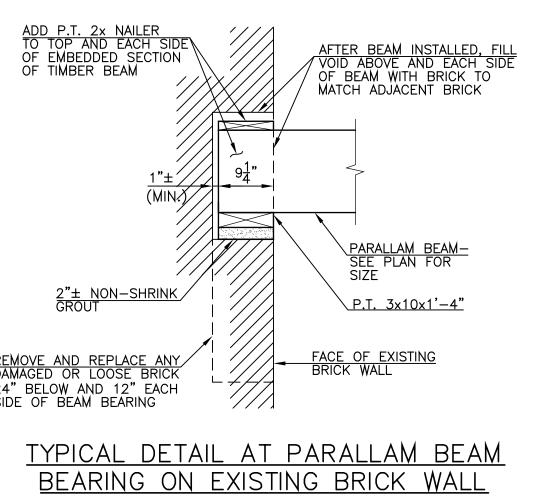
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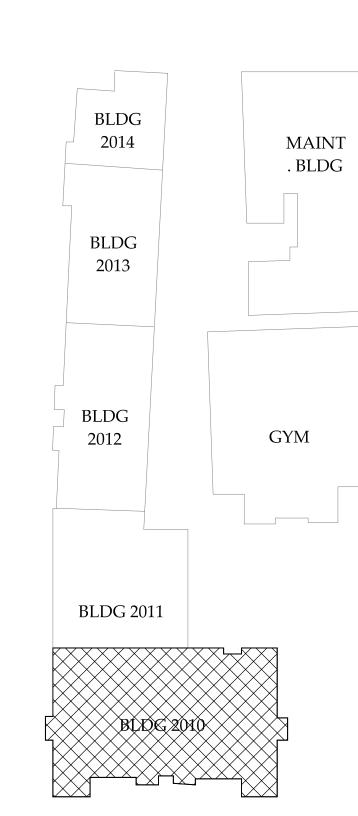
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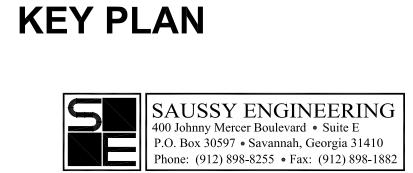
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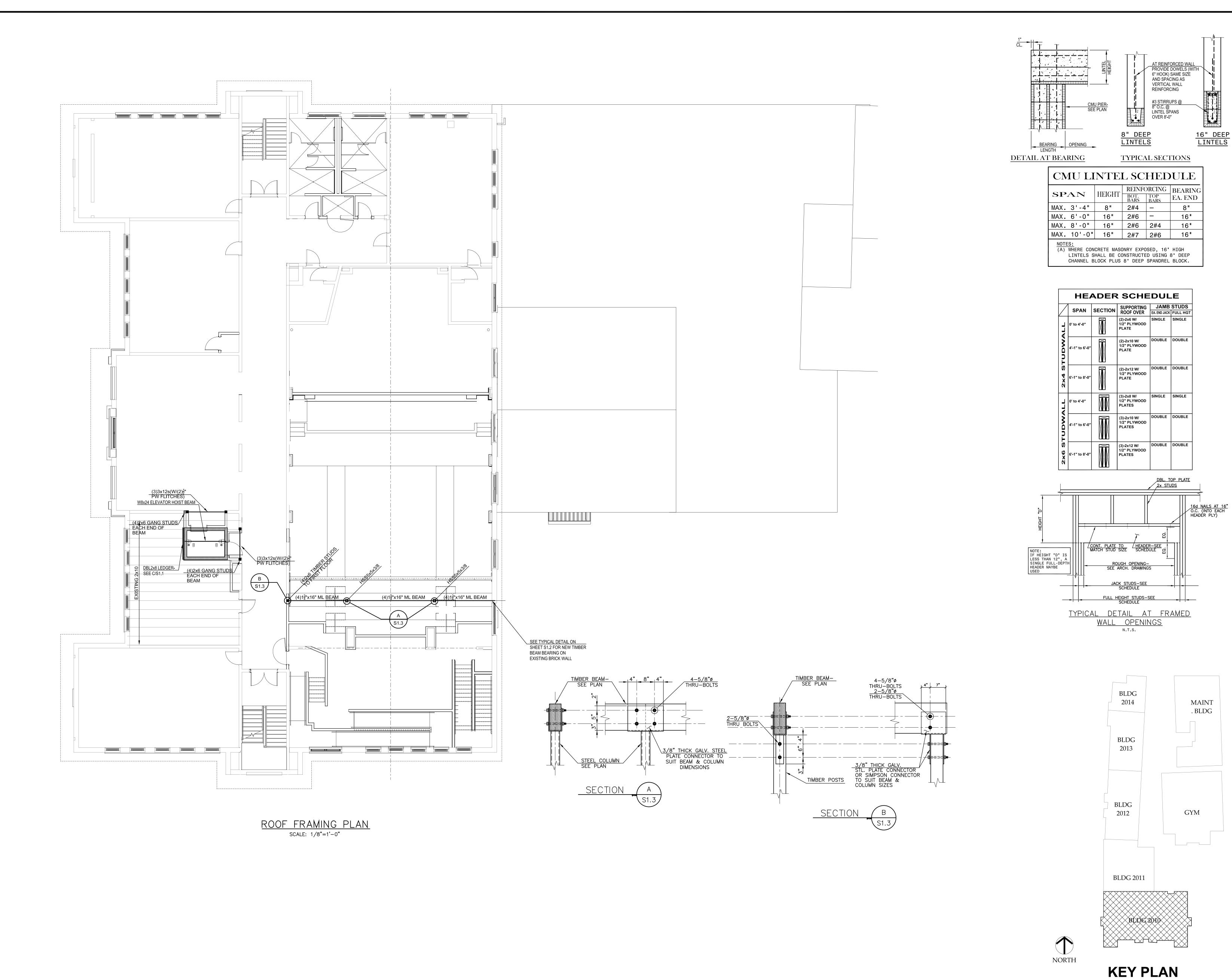


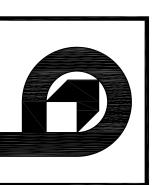
PROJECT # 21148: S1-2.dwg 11/17/22 5:00 pm



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PROJECT NUMBER SHEET NUMBER:





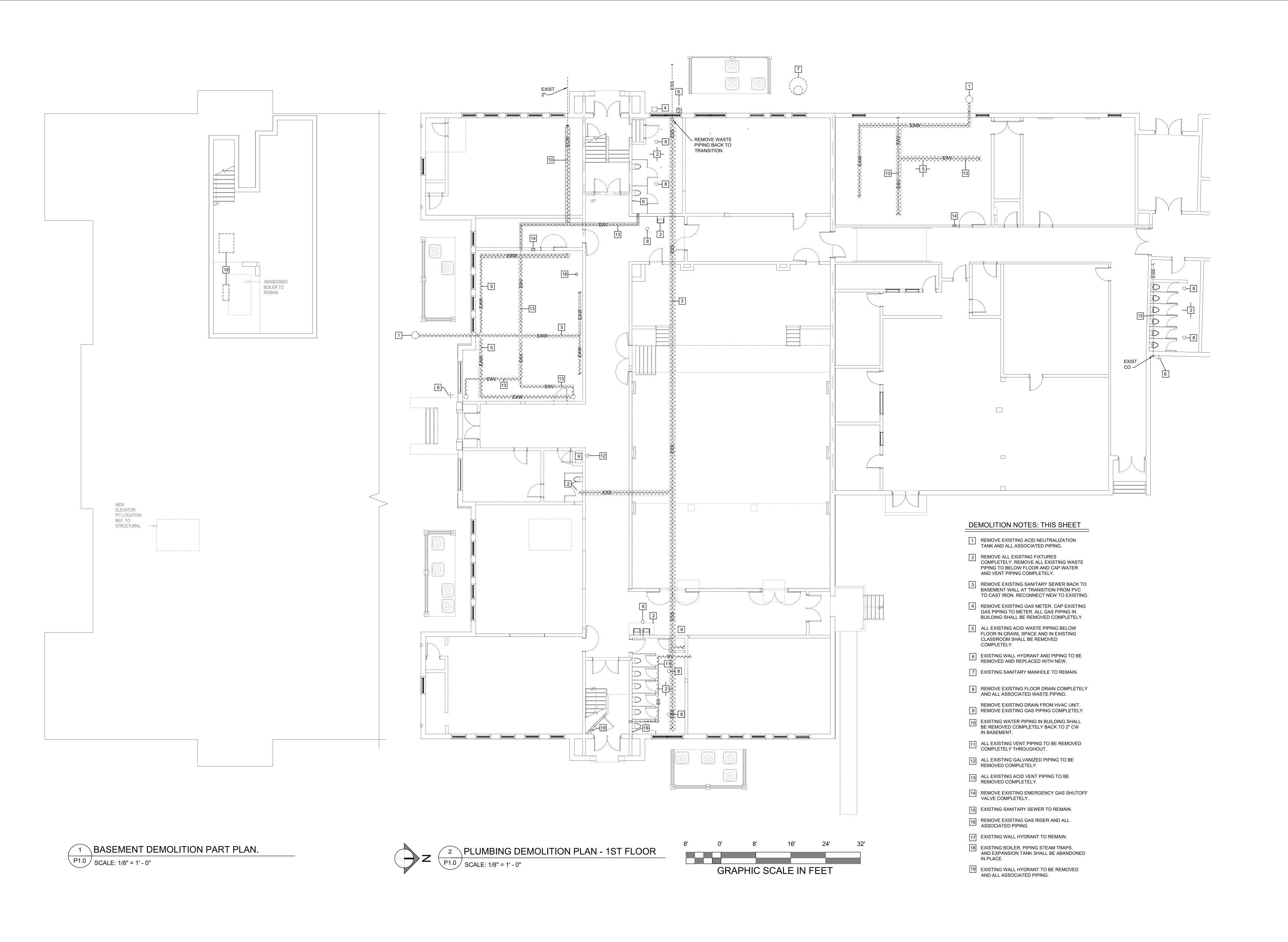
W. BUC

**ISSUED FOR:** 

H. SAUSSY III DRAWN BY H. SAUSSY III CHECKED BY H. SAUSSY III APPROVED BY 04/13/2023 PROJECT DATE

21-036 PROJECT NUMBER SHEET NUMBER:

SAUSSY ENGINEERING
400 Johnny Mercer Boulevard • Suite E
P.O. Box 30597 • Savannah, Georgia 31410
Phone: (912) 898-8255 • Fax: (912) 898-1882 Copyright (c) 2019 All Rights Reserved. PROJECT # 21148: S1-3.dwg 10/11/22 4:05 pm



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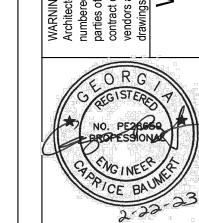
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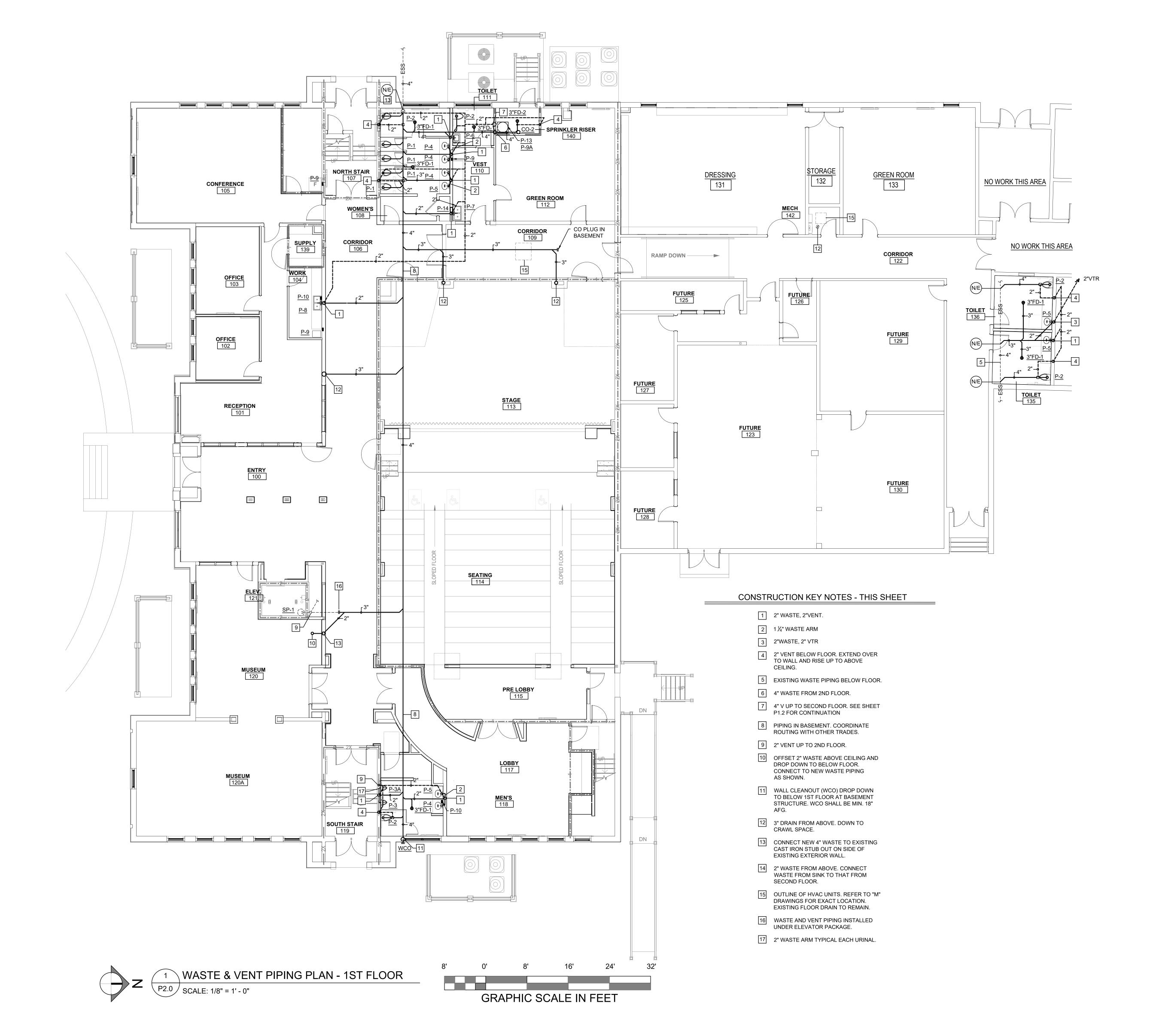


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TE AND VENT PIPING PLAN – 2ND FLOOR

WARNINA
WARNIN

ISSUED FOR:
BID SET

RFS
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CAB
CHECKED BY

CAB
APPROVED BY

4/13/2023
PROJECT DATE
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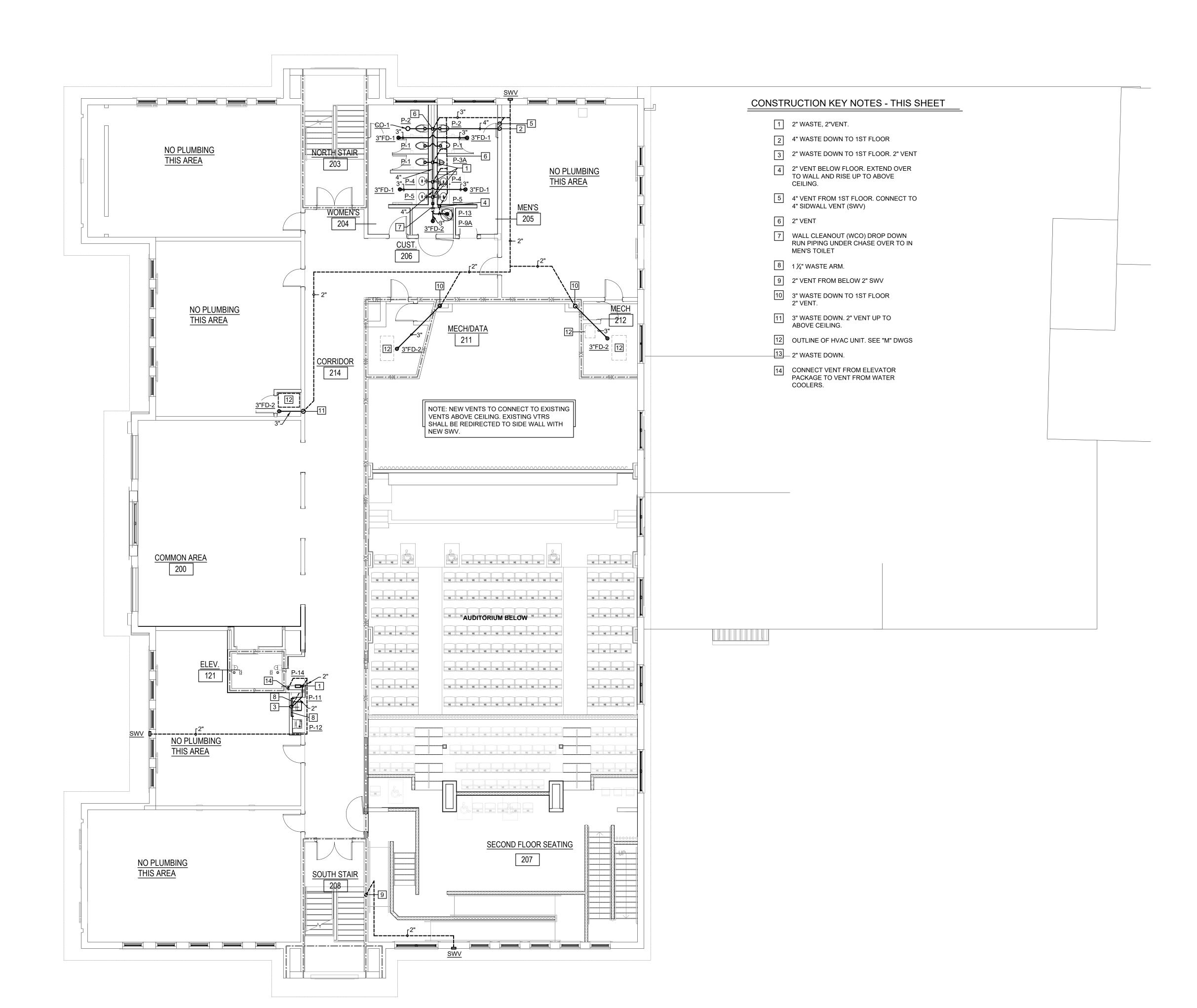
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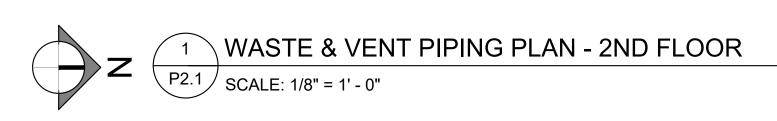
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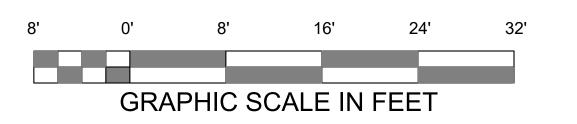
P2.1
ENGINEERING

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GRAPHIC SCALE IN FEET

17 3/4" CW UP TO 2ND FLOOR.

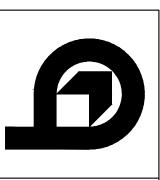
18 INSTALL NEW WALL HYDRANT (WH-1)
CONNECT TO EXISTING WATER PIPING'

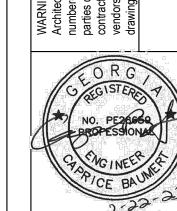
OUTLINE OF HVAC UNITS. REFER TO "M" DRAWINGS FOR EXACT LOCATION.

19 ½" CW TO CONDENSATE DRAIN BOX.

1½" CW UP. PROVIDE 1½" CW BRANCHES TO WATER CLOSETS.

2" CW UP TO 2ND FLOOR





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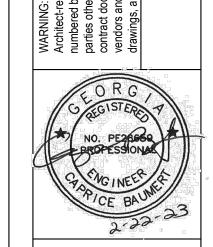
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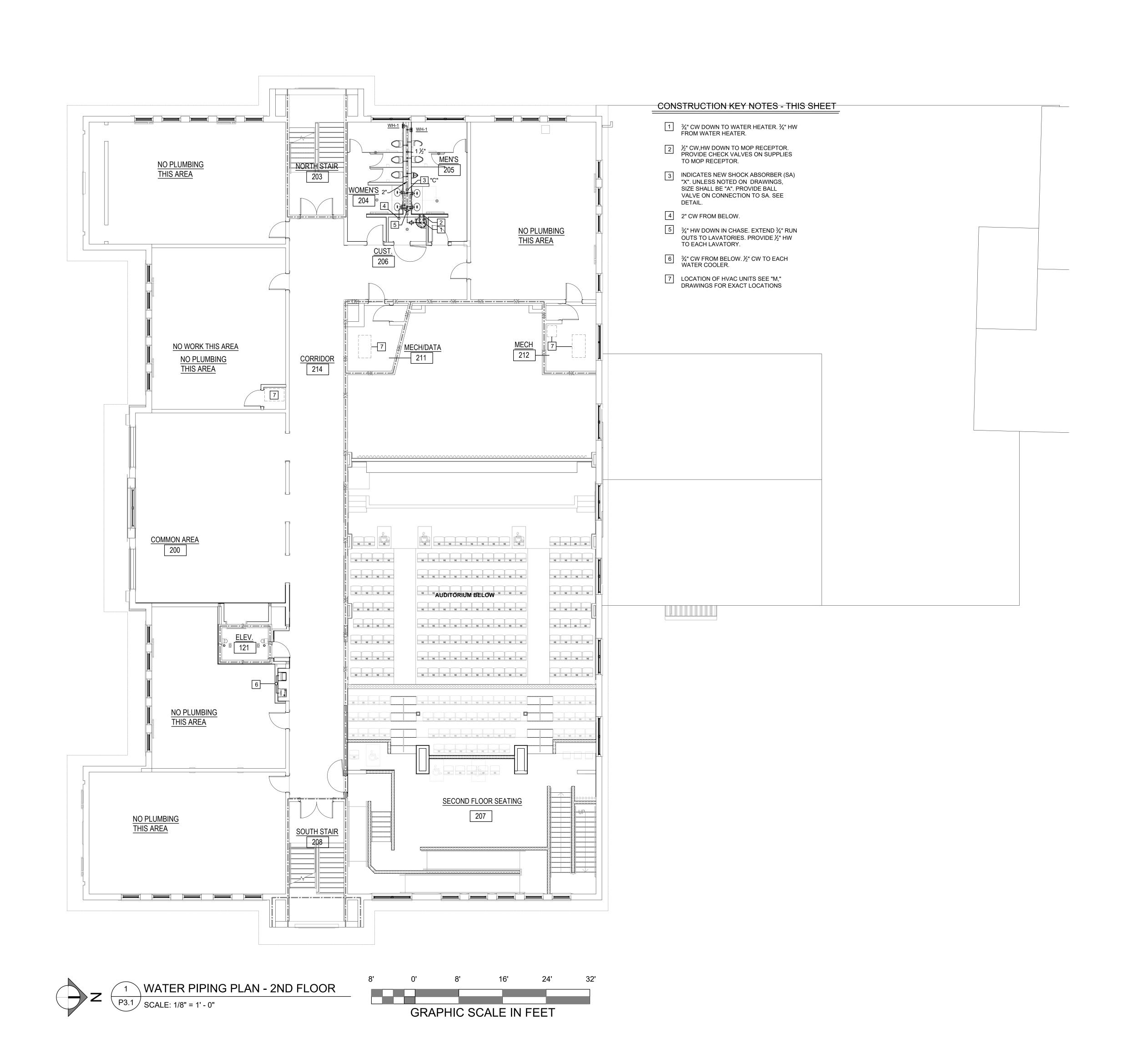


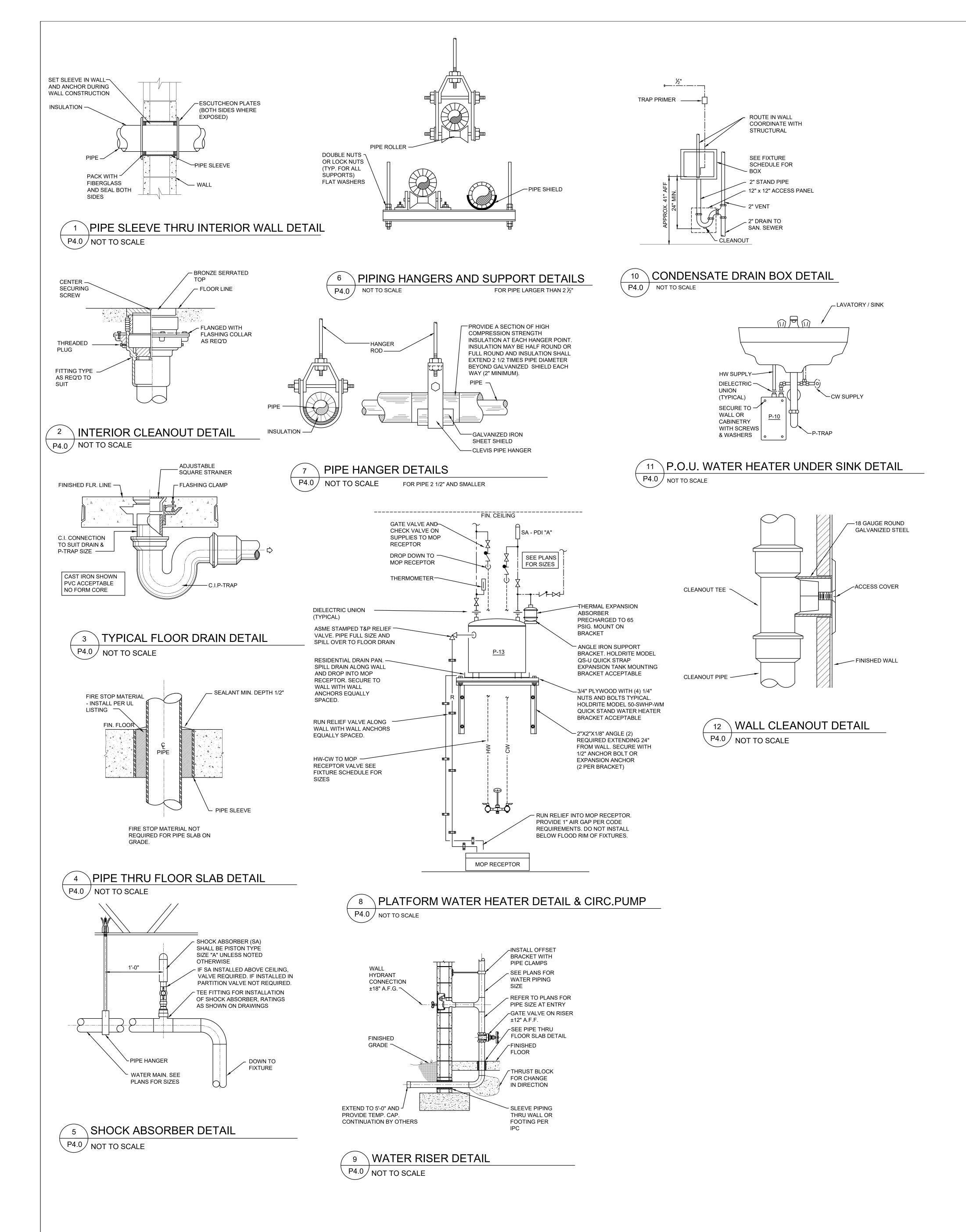
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|      | PLUMBING FIXTURE SCHEDULE |    |            |      |      |                      |   |  |
|------|---------------------------|----|------------|------|------|----------------------|---|--|
| SYM  | FIXTURE                   | W  | IPE S<br>V | CW   | HW   | RIM /MTG<br>HGT/ HGT | DESCRIPTION (SLOAN REFERENCED)  |  |
| P-1  | WATER CLOSET              | 4" | 2"         | 1"   |      | 15"                  | SLOAN ST-2009; 1.28 FLUSH; SLOAN 111-1.28 FLUSH VALVE;<br>CENTOCO 1500STSCC-001 ELONGATED SEAT;                   |  |
| P-2  | WATER CLOSET H/C          | 4" | 2"         | 1"   |      | ADA                  | SLOAN ST-2029; 1.28 FLUSH; SLOAN 111-1.28 FLUSH VALVE; CENTOCO 1500STSCC-001 ELONGATED SEAT;                      |  |
| P-3  | URINAL                    | 2" | 2"         | 3/4" |      | 15"                  | WEUS-1000.1010 URINAL WITH FLUSH METER COMBO. SUPPLIES.   |  |
| P-3A | URINAL H/C                | 2" | 2"         | 3/4" |      | ADA                  | WEUS-1000.1010 URINAL WITH FLUSH METER COMBO. SUPPLIES.   |  |
| P-4  | LAVATORY DECK (OVAL)      | 2" | 2"         | 1/2" | 1/2" | DECK                 | SINK BY OTHERS; DELTA 5205 GPM-DST SINGLE LEVER FAUCET; SUPPLIES TAIL PIECE, STOPS. ACORN ST7017 SET TO 110° MAX  |  |
| P-5  | LAVATORY DECK (OVAL) H/C  | 2" | 2"         | 1/2" | 1/2" | ADA                  | SINK BY OTHERS; DELTA 5205 GPM-DST SINGLE LEVER FAUCET; SUPPLIES TAIL PIECE, STOPS. ACORN ST7017 SET TO 110° MAX  |  |
| P-6  | LAVATORY H/C (WALL MTD)   | 2" | 2"         | 1/2" | 1/2" | ADA                  | SLOAN SS-3003 DELTA 5205 GPM-DST SINGLE LEVER FAUCET;<br>SUPPLIES TAIL PIECE, STOPS. ACORN ST7017 SET TO 110° MAX |  |
| P-7  | VESTIBULE SINK            | 2" | 2"         | 1/2" | 1/2" | DECK                 | SAME AS P-8   |  |
| P-8  | WORK SINK                 | 2" | 2"         | 1/2" | 1/2" | DECK                 | JUST DL-1933-A-GR: DELTA 400-DST FAUCET; TAIL PIECE, WASTE ARM; SUPPLIES; AND STOPS. ACORN ST7017 SET TO 110° MAX |  |
| P-9  | ICE MAKER BOX             |    |            | 1/2" |      | BOTT<br>6" AFF       | OATEY 38574 SERIES COORDINATE FINAL LOCATION WITH OWNER   |  |
| P-9A | MOP RECEPTOR              | 2" | 2"         | 1/2" | 1/2" | VA<br>41"            | FIAT TSB100; 832-AA,889-CC-830-AA FAUCET GRID DRAIN, HOSE,<br>AND HANGER  |  |
| P-10 | WATER HEATER              |    |            | 1/2" | 1/2" | UNDER<br>SINK        | CHRONOMITE M-20L-120V/1Ø; 2.4 KW .97 EFF.   |  |
| P-11 | WATER COOLER              | 2" | 2"         | 1/2" |      | 31"                  | ELKAY LZS8  |  |
| P-12 | WATER COOLER H/C          | 2" | 2"         | 1/2" |      | ADA                  | ELKAY LZS8WSLP WITH BOTTLE FILLER   |  |
| P-13 | WATER HEATER              |    |            | 3/4" | 3/4" |                      | A.O.SMITH ENL-30; 30 GALLON (2) 4.5 KW ELEMENTS NON-SIM OPERATIONS 120 V / 1Ø; .97 EFF.                           |  |
| P-14 | CONDENSATE DRAIN BOX      | 2" | 2"         |      | 1    | BOTT<br>41" AFF      | OATEY MODA SERIES 37557 WITH FUNNEL AND BLANK PLATE   |  |
| P-15 | CIRCULATING PUMP          |    |            | 1/2" | 1    |                      | TACO 006E3 SERIES, 120 V/1Ø   |  |
| SP-1 | ELEVATOR SUMP PUMP        |    |            |      | -    |                      | SEE ELEVATOR PACKAGE FOR ELEVATOR PUMP IDENTIFIED AS SP-1   |  |
| CO-1 | CLEAN OUT INTERIOR        | 4" |            |      |      |                      | J.R.SMITH 4020 SERIES   |  |
| WCO  | WALL CLEANOUT             | 4" |            |      |      |                      | J.R.SMITH 4420 SERIES   |  |
| FD-1 | FLOOR DRAIN (GENERAL)     | 3" |            |      |      |                      | J.R.SMITH 2005Y-U-B 4 5   |  |
| FD-2 | FLOOR DRAIN (MECH.RM)     | 3" |            |      |      |                      | J.R.SMITH 2005Y-F37 (5  |  |
| WH-1 | WALL HYDRANT              |    |            | 3/4" |      | 18" BOT              | J.R.SMITH 5509QT SERIES   |  |
|      |                           |    |            |      |      |                      |   |  |

### PLUMBING FIXTURE KEY NOTES:

- MOUNT AT ADA HEIGHT. ADA SHALL CONFORM TO ACCESSIBILITY CODE. REFER TO CODE FOR GUIDANCE. WHERE CONFLICTS ARISE BETWEEN ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS, ARCHITECTURAL DRAWING SHALL GOVERN.
- 2) PROVIDED PROTECTIVE PIPE COVERS FOR ALL HANDICAP LAVATORIES
- (3) PROVIDE CARPET MARKERS FOR CARPETED AREAS
- (4) PROVIDE 7" STRAINER ON 3" DRAIN AND 9" STRAINER ON 4" DRAINS. PROVIDE SUFFIX "B" (SQUARE TOP) FOR QUARRY TILE AND CERAMIC TILE FLOORS AND SUFFIX "A" (ROUND TOP) FOR ALL OTHER FLOORS.
- (5) PROVIDE TRAP GUARDS ON ALL HUB DRAINS AND FLOOR DRAINS. IF APPROVED BY LOCAL AHJ. IF NOT APPROVED PROVIDE TRAP PRIMERS

### **GENERAL PLUMBING NOTES**

PIPING IS SHOWN IN ITS GENERAL LOCATION (UNLESS DIMENSIONED). EXACT LOCATION SHALL BE DETERMINED BY JOB CONDITIONS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THEIR WORK WITH THAT OF OTHER TRADES AND ARRANGE PIPING TO CLEAR STRUCTURAL MEMBERS AND DUCTWORK. RISERS FOR FIXTURES, UNLESS OTHERWISE NOTED, SHALL BE CONCEALED IN WALLS OR PIPE CHASES.

MINIMUM SIZE WATER LINE FOR ANY TWO FIXTURES SHALL BE  $\frac{3}{4}$ ". REFER TO PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL FIXTURE RUNOUT SIZES. INSTALL ALL EXTERIOR WALL HYDRANTS 18" ABOVE FINISH GRADE (A.F.F.) EXCEPT AS NOTED OTHERWISE.

PROVIDE SLEEVES PER IPC REQUIREMENTS FOR PIPE PASSING THRU FLOOR, MASONRY WALLS AND FIRE OR SMOKE PARTITIONS. PACK ANNULAR SPACE BETWEEN PIPE WITH MATERIAL APPROVED IN U.L. BUILDING DIRECTORY OR AS DIRECTED BY IPC OR IBC REQUIREMENTS.

REFER TO ARCHITECTURAL FINISH SCHEDULE AND ELEVATIONS FOR DETAILS OF FLOOR WHERE FLOOR DRAINS ARE TO BE INSTALLED.

IT SHALL BE CONTRACTORS RESPONSIBILITY TO COORDINATE THIS INSTALLATION WITH THAT OF OTHER TRADES TO ENSURE COMPLETE INSTALLATION. CONTRACTOR SHALL VERIFY ROUTING OF ALL PIPING AND ADJUST AS NECESSARY TO AVOID CONFLICTS WITH THAT OF OTHER TRADES AND OR STRUCTURAL MEMBERS.

|                 | DLLIN                      | ADING LECENI | <u> </u>                   |  |  |  |  |  |  |
|-----------------|----------------------------|--------------|----------------------------|--|--|--|--|--|--|
| PLUMBING LEGEND |                            |              |                            |  |  |  |  |  |  |
| SYMBOL          | DESCRIPTION                | SYMBOL       | DESCRIPTION                |  |  |  |  |  |  |
| SA PDI "X"——    | SHOCK ABSORBER             |              | COLD WATER                 |  |  |  |  |  |  |
|                 | - SHUTOFF VALVE            |              | HOT WATER                  |  |  |  |  |  |  |
|                 | - CHECK VALVE              | ——ф——        | BALL VALVE                 |  |  |  |  |  |  |
| TYP.            | TYPICAL                    | ESS          | EXISTING SANITARY SEWER    |  |  |  |  |  |  |
| N/E)            | NEW TO EXISTING CONNECTION | EAW          | EXISTING ACID WASTE PIPING |  |  |  |  |  |  |
| EAV             | EXISTING ACID VENT PIPING  | ECW          | EXISTING COLD WATER PIPING |  |  |  |  |  |  |
|                 |                            |              |                            |  |  |  |  |  |  |
|                 |                            |              |                            |  |  |  |  |  |  |

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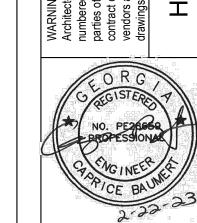
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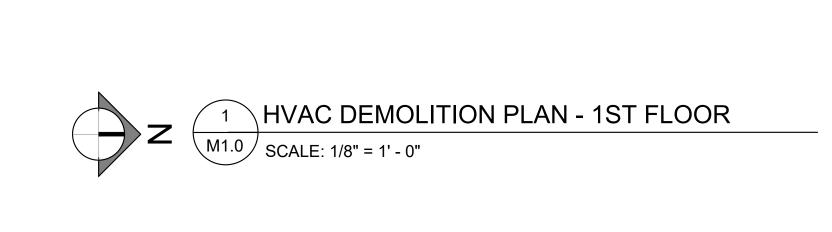
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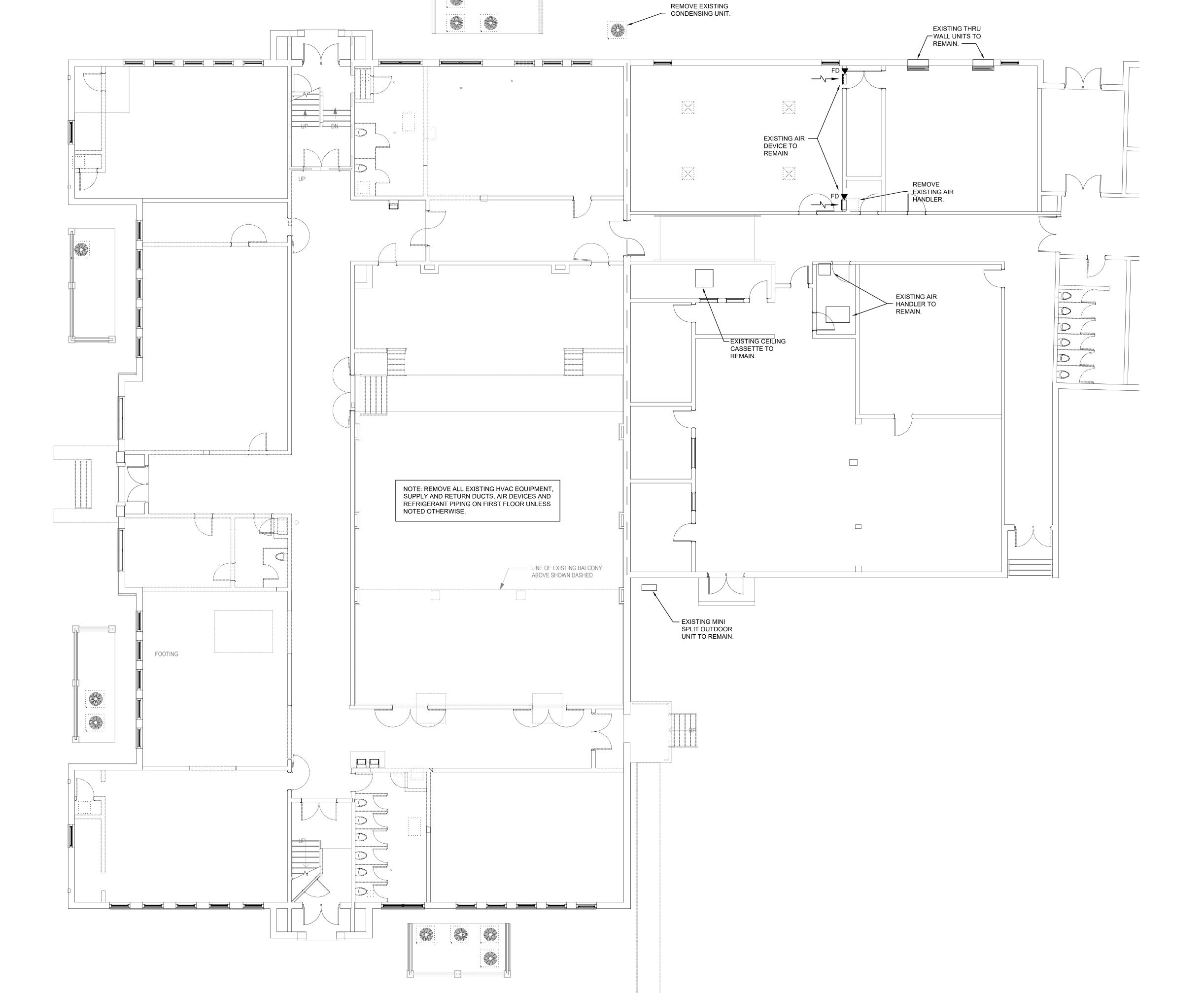
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8' 0' 8' 16' 24' 32'

GRAPHIC SCALE IN FEET



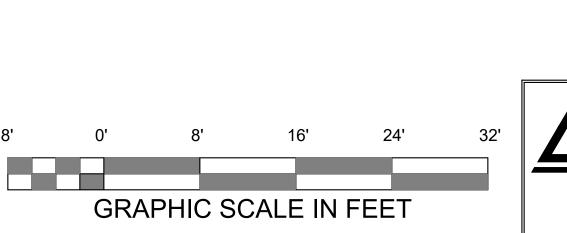


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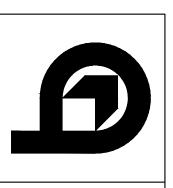
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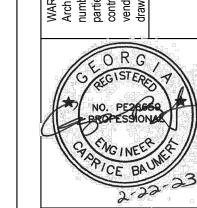






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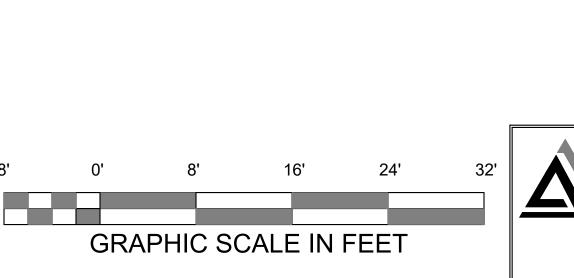
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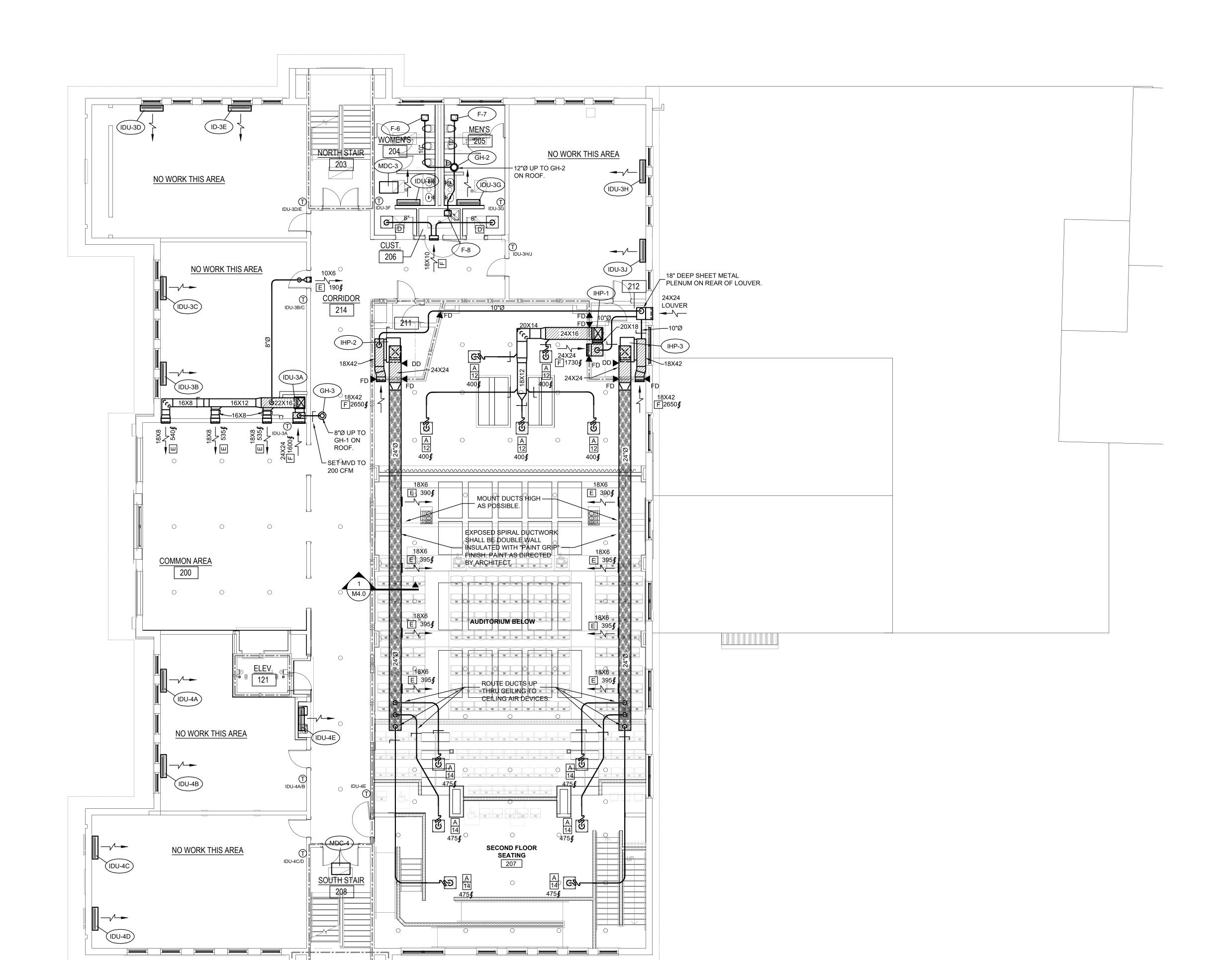
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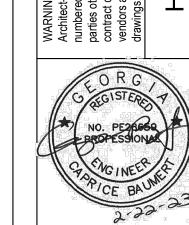
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NOTE: REFER TO SHEETS M3.1 FOR REFRIGERANT AND CONDENSATE PIPING. HVAC NEW WORK PLAN - 2ND FLOOR



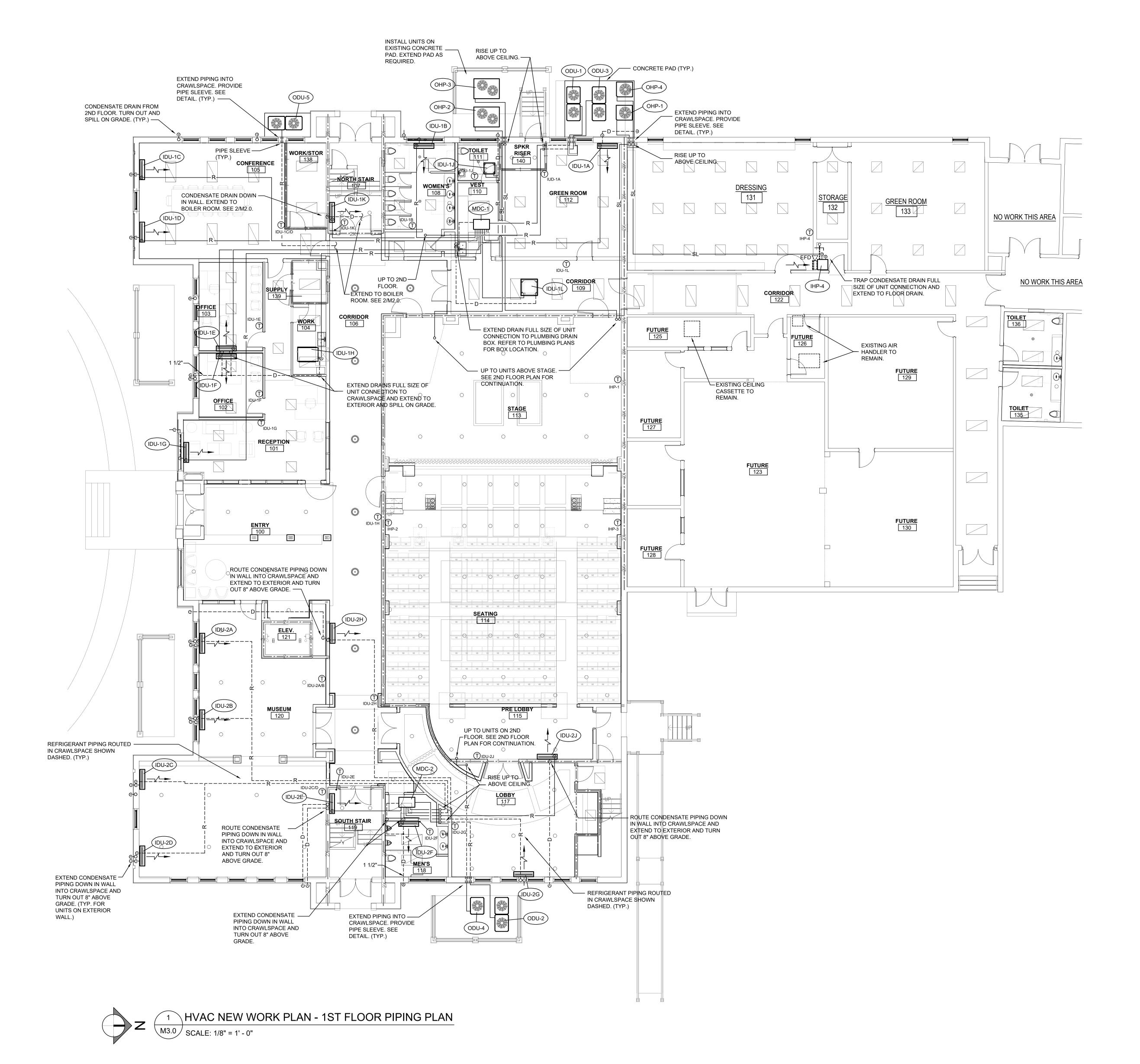


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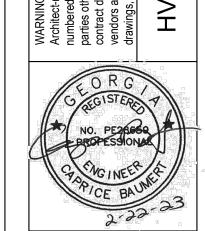
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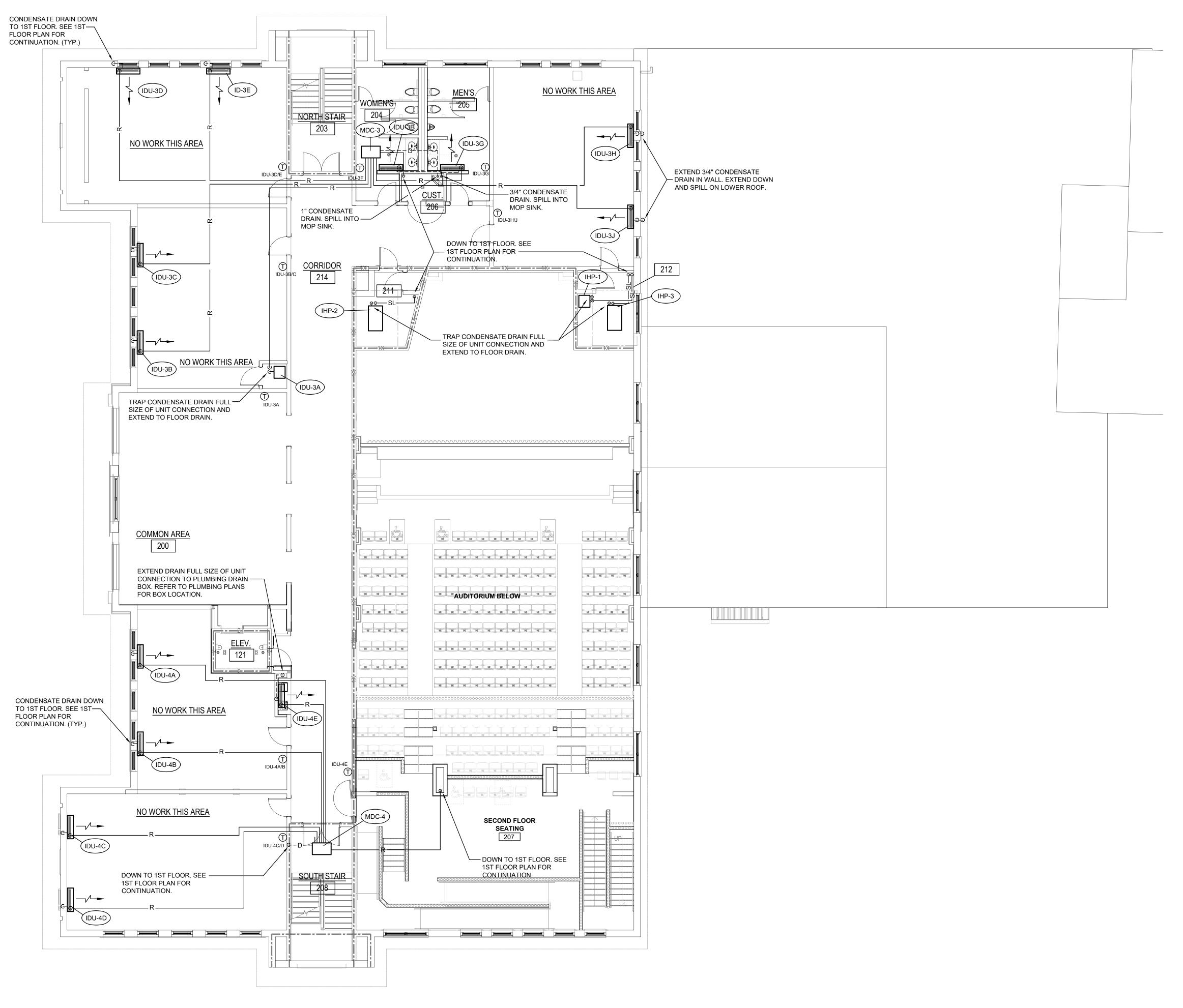
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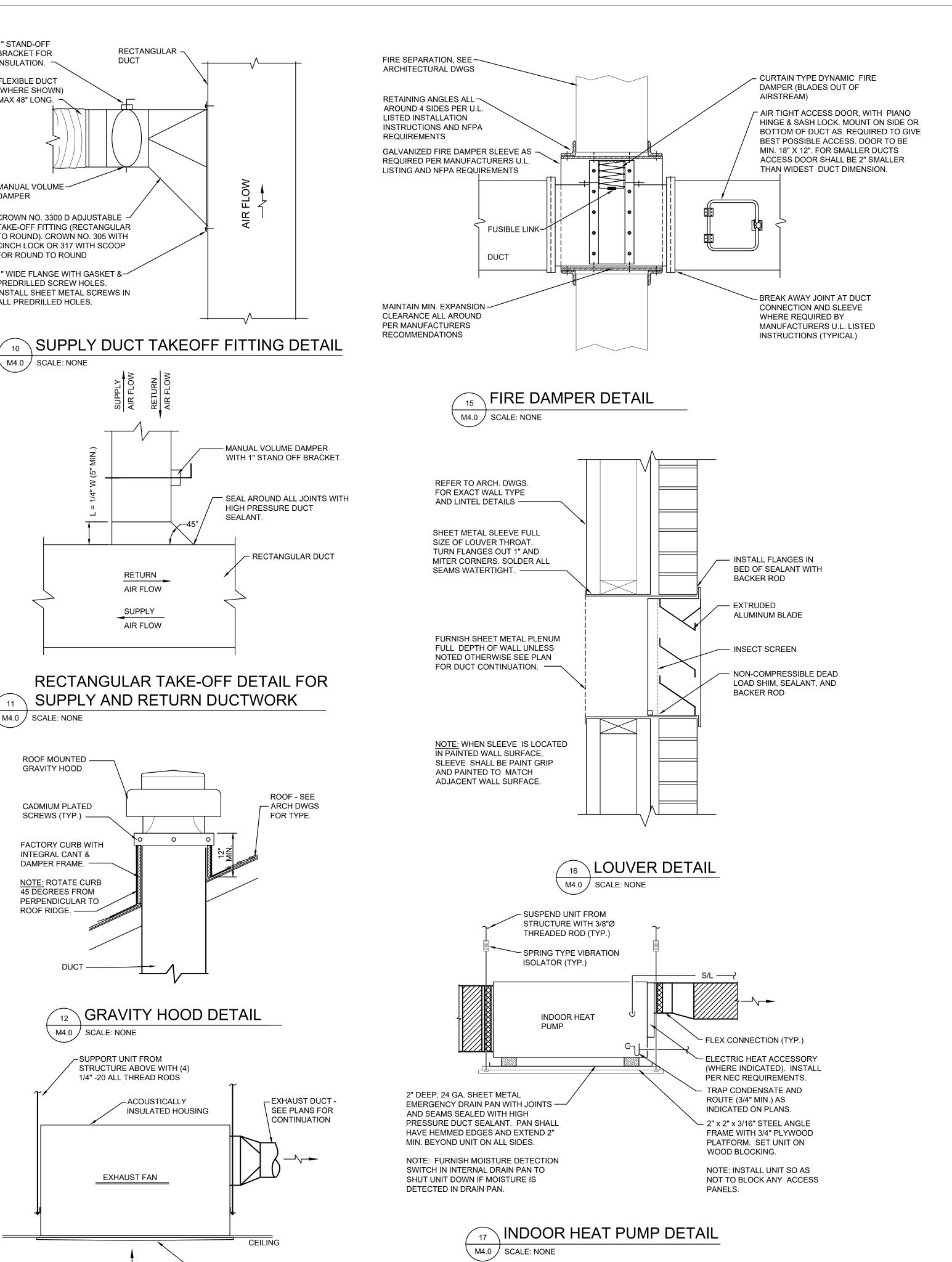
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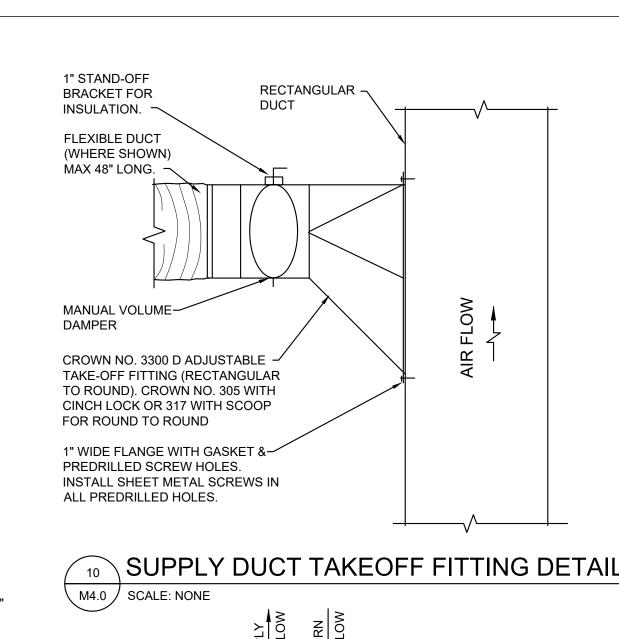
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1 HVAC NEW WORK PLAN - 2ND FLOOR PIPING PLAN





RETURN

AIR FLOW

SUPPLY

AIR FLOW

GRAVITY HOOD DETAIL

-ACOUSTICALLY

INSULATED HOUSING

~INTEGRAL CEILING

OUTDOOR UNIT

CONCRETE PAD

FURNISH MANUFACTURER SUPPLIED

SUPPORT LEGS OR 2" THICK RUBBER

AND CORK ISOLATORS. FOR

DUCTLESS SPLIT UNITS, SECURE

MANUFACTURER'S INSTALLATION

UNIT TO CONCRETE PAD WITH

EXPANSION ANCHORS PER

GRILLE

M4.0 SCALE: NONE

ROOF MOUNTED \_\_\_\_\_

GRAVITY HOOD

CADMIUM PLATED

SCREWS (TYP.) —

FACTORY CURB WITH

INTEGRAL CANT &

DAMPER FRAME. —

NOTE: ROTATE CURB

45 DEGREES FROM

PERPENDICULAR TO ROOF RIDGE. —

∖ M4.0 / SCALE: NONE

-SUPPORT UNIT FROM

STRUCTURE ABOVE WITH (4)

1/4" -20 ALL THREAD RODS

EXHAUST FAN

CEILING FAN DETAIL

-THERMAL EXPANSION

LOOP TO TOP OF EVAPORATOR BEFORE STARTING RUN TO

- MOISTURE INDICATOR SITE GLASS

PER MFG. RECOMMENDATIONS.

FILTER DRIER PER MFG. RECOMMENDATIONS.

VALVE. (TYPICAL)

COMPRESSOR

│ M4.0 / SCALE: NONE

TRAP CONDENSATE

AND ROUTE TO

LINE (FOR HEAT

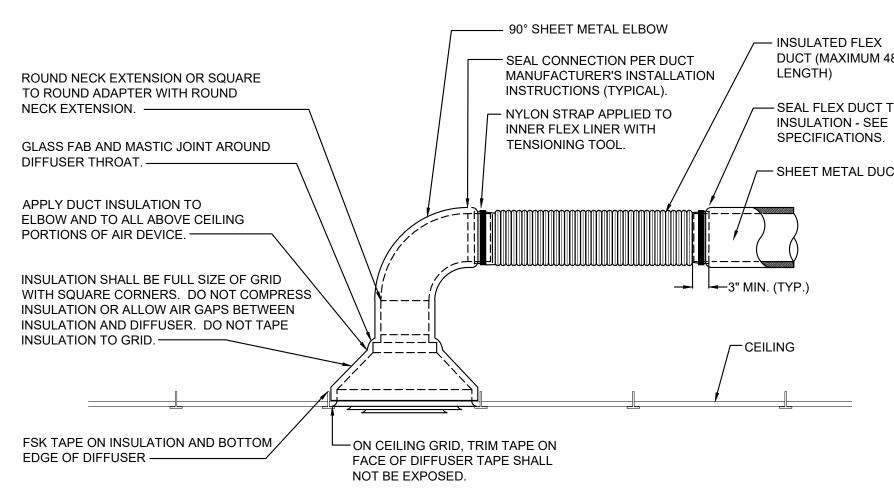
REQUIRED.)

DRAIN. SEE DETAIL

TRAP ON SUCTION —

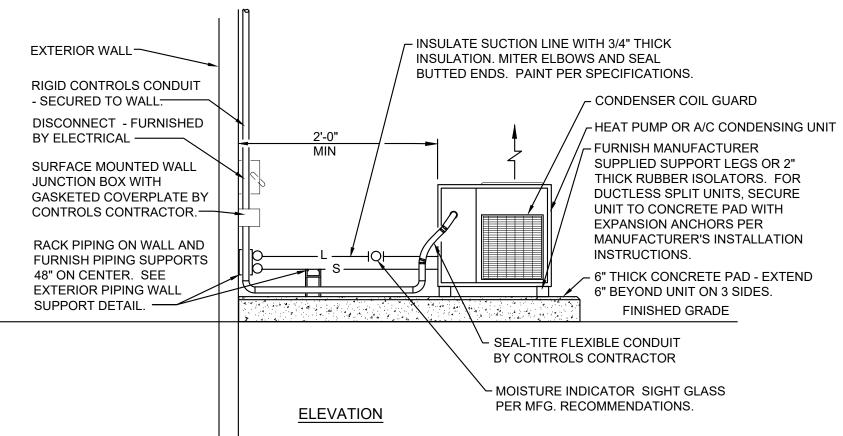
PUMP SYSTEMS NOT

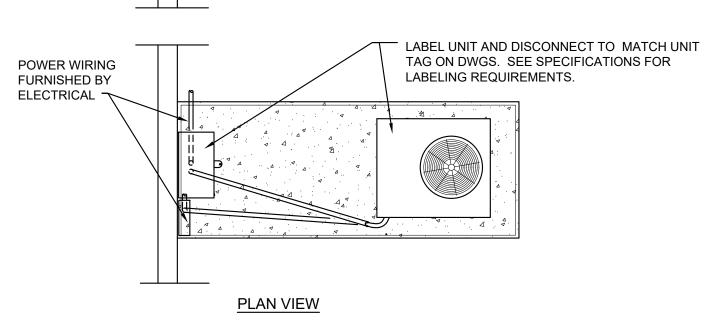
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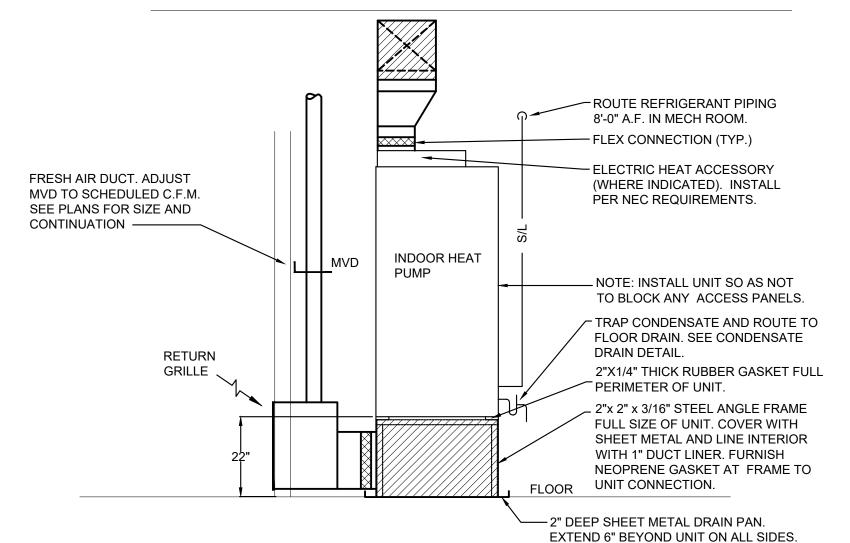


## ROUND DUCT CONNECTION DETAIL

∖ M4.0 / SCALE: NONE







NOTE: FURNISH MOISTURE DETECTION SWITCH IN EMERGENCY DRAIN PAN TO SHUT UNIT DOWN IF MOISTURE IS DETECTED IN DRAIN PAN. √ INDOOR HEAT PUMP DETAIL M4.0 / SCALE: NONE

REFRIGERANT PIPING SCHEMATIC M4.0 / SCALE: NONE

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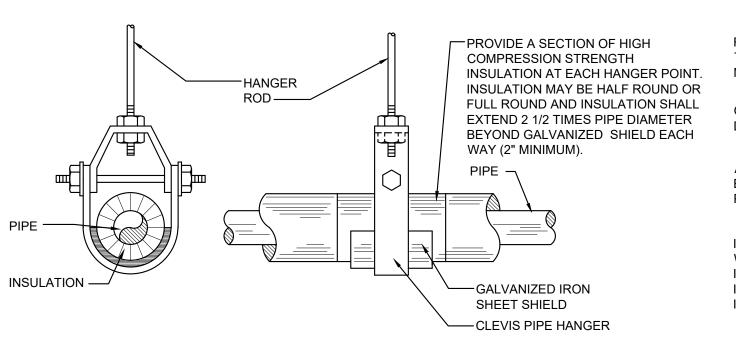
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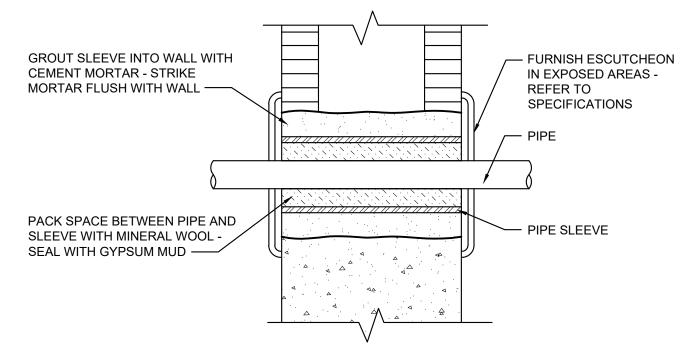
TAKEOFF SHALL BE FULL SIZE OF OUTSIDE DIMENSION OF AIR DEVICE FRAME. 3/8"Ø HANGER ROD FOR 30"Ø AND BELOW DUCT. 1/2"Ø HANGER ROD FOR OBD FLUSH OVER 30"Ø DUCT. — WITH EDGE OF SPACING PER SMACNA. ROUND DUCT. TRANSITION FROM 1 DUCT TO GRILLE EXPOSED ROUND WITH SHEET METAL DUCT — DUCTWORK PER 20 GA. SHEET -SMACNA STANDARDS.\_ METAL BAND. LSUPPLY DIFFUSER - FLANGE OF AIR DEVICE SHALL BE **FLUSH WITH DUCT** COLLAR. NOTE: FURNISH 2" DIAMETER HOLES AT 10'-0" ON CENTER ON TOP OF DUCT.

> SECTION AT EXPOSED ROUND DUCTWORK

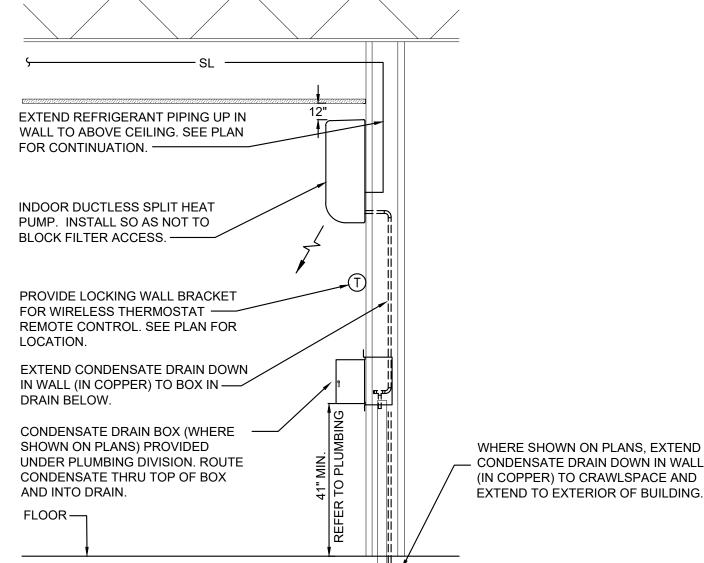
∖ M4.0 / SCALE: NONE



PIPE HANGER DETAILS \ M4.0 / SCALE: NONE

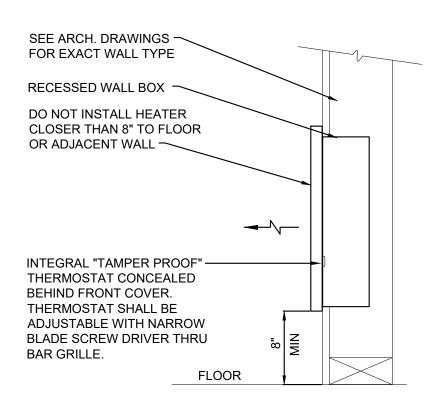


3 PIPE SLEEVE DETAIL M4.0 / SCALE: NONE



- CONDENSATE DRAIN DOWN IN WALL (IN COPPER) TO CRAWLSPACE AND EXTEND TO EXTERIOR OF BUILDING.

4 SECTION AT INDOOR HEAT PUMP \ M4.0 / SCALE: NONE



**ELECTRIC WALL** THEATER DETAIL √ M4.0 / SCALE: NONE

(2 EACH SIDE) 12" HIGH FROM TOP. OF T-BAR SHEET METAL PLENUM FULL SIZE— OF LAY-IN RETURN/EXHAUST GRILLE. CONSTRUCT OF 22 GAGE SURFACE MOUNTED SHEET METAL AND PAINT INSIDE FLAT BLACK. EXHAUST/RETURN GRILLE CONNECTION DETAILS ✓ M4.0 / SCALE: NONE

**⊢**--------

DUCT (MAXIMUM 48" — SEAL FLEX DUCT TO — SHEET METAL DUCT

- SQUARE ELBOW WITH ——

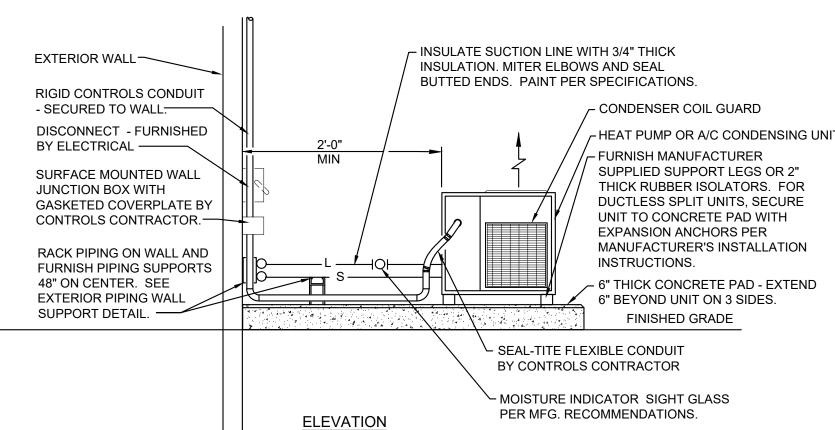
- SHEET METAL DUCT - SEE

ATTACH PLENUM TO "T-BAR"

WITH SHEET METAL SCREWS

TURNING VANES.

PLAN FOR SIZE. ——



EXTERIOR HVAC UNIT DETAIL M4.0 / SCALE: NONE

EXISTING WORK IS SHOWN IN ITS APPROXIMATE LOCATION AND ARRANGEMENT. EXISTING WORK SHOWN MAY NOT INCLUDE ALL EXISTING CONDITIONS. EXACT LOCATION, ARRANGEMENT, AND SIZES SHALL BE VERIFIED BEFORE STARTING ANY NEW WORK OR ORDERING ANY MATERIALS.

INSTALL DUCTWORK AND PIPING ABOVE CEILINGS WHERE POSSIBLE AND IN CHASES TO PROVIDE MAXIMUM POSSIBLE CLEARANCE'S FOR MAINTENANCE ACCESS. INSTALL PIPING AND DUCTWORK IN EQUIPMENT ROOMS PARALLEL OR PERPENDICULAR TO WALLS AND CEILINGS UNLESS SHOWN OTHERWISE.

ALL DUCTWORK AND PIPING SHALL BE CONCEALED UNLESS NOTED OTHERWISE.

COORDINATE THE INSTALLATION OF DUCTWORK AND PIPING WITH THAT OF OTHER TRADES TO PROVIDE THE BEST POSSIBLE ARRANGEMENT. REFER TO PLUMBING, ELECTRICAL, AND STRUCTURAL DRAWINGS AND SPRINKLER SHOP DRAWINGS. ARRANGE PIPING AND DUCTWORK TO AVOID CONFLICTS WITH OTHER BUILDING TRADES.

UNLESS DIMENSIONED, PIPING, DUCTWORK, AND EQUIPMENT ARE SHOWN IN APPROXIMATE LOCATIONS. EXACT CONFIGURATION SHALL BE DETERMINED IN THE FIELD TO COORDINATE WITH OTHER TRADES AND TO ALLOW FOR A MINIMUM NUMBER OF OFFSETS AS POSSIBLE WHILE ALLOWING FOR ADEQUATE MAINTENANCE ACCESS.

FURNISH FLEXIBLE DUCT CONNECTIONS TO ALL AIR HANDLING EQUIPMENT.

FURNISH FLANGED OR UNION CONNECTIONS IN PIPING AT ALL EQUIPMENT AND CONTROL VALVES, AND AS REQUIRED FOR SERVICE.

EXACT LOCATION OF AIR DEVICES SHALL BE DETERMINED IN THE FIELD.
COORDINATE WITH ARCHITECTURAL REQUIREMENTS AND LIGHTING. REFER TO
ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL PLANS FOR
LIGHT LOCATIONS. AIR DEVICE LOCATIONS SHALL BE INSTALLED WITH A

DUCT ACCESS DOORS SHALL BE FURNISHED AT ALL FIRE AND SMOKE DAMPERS, DUCT MOUNTED COILS, AND AT ALL DUCT MOUNTED CONTROL DEVICES.

UNIFORM APPEARANCE AND SHALL BE SYMMETRICAL.

SLOPE DRAIN LINE TOWARDS DRAIN WITH A MINIMUM SLOPE OF 1/4" PER FOOT.

THERMOSTAT LOCATIONS SHALL BE A MINIMUM OF 8" AWAY FROM DOOR FRAMES. COORDINATE LOCATION OF THERMOSTATS WITH LIGHT SWITCHES AND OTHER WALL DEVICES FOR SYMMETRY. MOUNT AT 4'-0" A.F. UNLESS NOTED OTHERWISE.

|                  | H.V.A.C. LEGEND  |
|------------------|--|
| SYMBOL           | DESCRIPTION  |
| —— S/L ——        | REFRIGERANT SUCTION / LIQUID   |
| D                | CONDENSATE DRAIN   |
| T                | THERMOSTAT 4'-0" A.F.  |
| \$               | WALL SWITCH  |
| + 🔯 +            | FLEXIBLE DUCT CONNECTION AT UNIT   |
| 4////            | LINED DUCT (SIZE SHOWN IS METAL SIZE)  |
| <i>C000</i> —    | FLEXIBLE DUCT CONNECTION   |
| ×                | SUPPLY DIFFUSER  |
|                  | RETURN / EXHAUST GRILLE  |
| <b>◀</b> FD      | FIRE DAMPER  |
| <b>◀</b> DD      | DUCT DETECTOR  |
| <b>◀</b> EFD     | EXISTING FIRE DAMPER   |
| [☐ AD            | ACCESS DOOR  |
| ◆ CRD            | CEILING RADIATION DAMPER   |
|                  | SQUARE ELBOW WITH TURNING VANES  |
| MVD              | MANUAL VOLUME DAMPER   |
| <del>    M</del> | MOTOR OPERATED DAMPER  |
| A 8              | SEE AIR DEVICE SCHEDULE FOR TYPE NECK CONNECTION SIZE UNLESS NOTED OTHERWISE |
| <b>∮</b> C.F.M.  | CUBIC FEET PER MINUTE  |
| F-1              | EQUIPMENT NUMBER - SEE SCHEDULES   |
| _\_              | AIRFLOW DIRECTION  |
| Ø                | DIAMETER   |
|                  | AIR EXTRACTOR  |
| OBD              | OPPOSED BLADE DAMPER   |
| TYP.             | TYPICAL  |
| ENT.             | ENTERING   |
| LVG.             | LEAVING  |
| S.P.             | STATIC PRESSURE  |
| A.P.D.           | AIR PRESSURE DROP  |
| N/E)             | NEW TO EXISTING  |
| OA               | OUTDOOR AIR  |
|                  |  |

— R — REFRIGERANT PIPING

| TYPE  SQUARE ILING DIFFUSER  SQUARE ILING DIFFUSER | NECK<br>SIZE (1)<br>6"Ø<br>8"Ø   | FINISH  MANUFACTURERS  STANDARD WHITE  | OPPOSED BLADE DAMPER YES   | TITUS<br>MODEL NUMBER  | NOTES  |
|--|--|--|--|--|--|
| LING DIFFUSER SQUARE LING DIFFUSER                 |  |  | VES  |  |  |
| LING DIFFUSER                                      | 8"Ø  |  | 125  | TMS / 24"X24" FACE   | (2)  |
| 0011455  |  | MANUFACTURERS<br>STANDARD WHITE  | YES  | TMS / 24"X24" FACE   | (2)  |
| SQUARE<br>LING DIFFUSER                            | 10"Ø   | MANUFACTURERS<br>STANDARD WHITE  | YES  | TMS / 24"X24" FACE   | (2)  |
| SQUARE<br>ILING DIFFUSER                           | 12"Ø   | MANUFACTURERS<br>STANDARD WHITE  | YES  | TMS / 24"X24" FACE   | (2)  |
| SQUARE<br>ILING DIFFUSER                           | 14"Ø   | MANUFACTURERS<br>STANDARD WHITE  | YES  | TMS / 24"X24" FACE   | (2)  |
| SQUARE<br>LING DIFFUSER                            | 4"Ø  | MANUFACTURERS<br>STANDARD WHITE  | YES  | TMS / 12"X12" FACE   | (2)  |
| SQUARE<br>LING DIFFUSER                            | 6"Ø  | MANUFACTURERS<br>STANDARD WHITE  | YES  | TMS / 12"X12" FACE   | (2)  |
| SQUARE<br>LING DIFFUSER                            | 8"Ø  | MANUFACTURERS<br>STANDARD WHITE  | YES  | TMS / 12"X12" FACE   | (2)  |
| EGG CRATE<br>URN / EXHAUST                         | 10"X10"  | MANUFACTURERS<br>STANDARD WHITE  | NO   | 50F / 12X12 PANEL<br>WITH BORDER FRAME   | (2)  |
| EGG CRATE<br>URN / EXHAUST                         | 22"X22"  | MANUFACTURERS<br>STANDARD WHITE  | NO   | 50F / 24X24 PANEL<br>WITH BORDER FRAME   | (2)  |
| SIDE WALL<br>PPLY REGISTER                         | SEE PLANS  | MANUFACTURERS<br>STANDARD WHITE  | YES  | 300RS - DOUBLE DEFLECTION<br>WITH 3/4" BLADE SPACING   |  |
| SIDE WALL<br>ETURN GRILLE                          | SEE PLANS  | MANUFACTURERS<br>STANDARD WHITE  | NO   | 355RL - 35° DEFLECTION<br>WITH 1/2" BLADE SPACING  |  |
| HEAVY DUTY<br>ETURN GRILLE                         | SEE PLANS  | MANUFACTURERS<br>STANDARD WHITE  | NO   | 33RL - 38° DEFLECTION<br>WITH 1/2" BLADE SPACING   | (4)  |
| STATIONARY<br>LOUVER                               | SEE PLANS  | (3)  | NO   | GREENHECK<br>ESD-6   |  |
|  | SQUARE ING DIFFUSER EGG CRATE JRN / EXHAUST EGG CRATE JRN / EXHAUST SIDE WALL PLY REGISTER SIDE WALL TURN GRILLE EAVY DUTY TURN GRILLE TATIONARY | ING DIFFUSER  SQUARE ING DIFFUSER  SUBJECT STATE  JRN / EXHAUST  SIDE WALL PLY REGISTER  SIDE WALL TURN GRILLE  EAVY DUTY TURN GRILLE  TATIONARY  SEE PLANS | ING DIFFUSER  SQUARE ING DIFFUSER  14"Ø  STANDARD WHITE  SQUARE ING DIFFUSER  4"Ø  MANUFACTURERS STANDARD WHITE  SQUARE ING DIFFUSER  6"Ø  MANUFACTURERS STANDARD WHITE  SQUARE ING DIFFUSER  SQUARE ING DIFFUSER  6"Ø  MANUFACTURERS STANDARD WHITE  SQUARE ING DIFFUSER  STANDARD WHITE  MANUFACTURERS STANDARD WHITE  EGG CRATE JRN / EXHAUST  EGG CRATE JRN / EXHAUST  SIDE WALL PLY REGISTER  SEE PLANS  STANDARD WHITE  MANUFACTURERS STANDARD WHITE  MANUFACTURERS STANDARD WHITE  MANUFACTURERS STANDARD WHITE  SIDE WALL PLY REGISTER  SEE PLANS  STANDARD WHITE  MANUFACTURERS STANDARD WHITE  SEE PLANS  STANDARD WHITE  MANUFACTURERS STANDARD WHITE  SEE PLANS  STANDARD WHITE  MANUFACTURERS STANDARD WHITE  MANUFACTURERS STANDARD WHITE  MANUFACTURERS STANDARD WHITE  SEE PLANS  STANDARD WHITE  MANUFACTURERS STANDARD WHITE | STANDARD WHITE  SQUARE  ING DIFFUSER  14"Ø  MANUFACTURERS STANDARD WHITE  SQUARE  ING DIFFUSER  4"Ø  MANUFACTURERS STANDARD WHITE  SQUARE  ING DIFFUSER  SQUARE  ING DIFFUSER  6"Ø  MANUFACTURERS STANDARD WHITE  SQUARE  ING DIFFUSER  8"Ø  MANUFACTURERS STANDARD WHITE  SQUARE  ING DIFFUSER  8"Ø  MANUFACTURERS STANDARD WHITE  GGG CRATE JRN / EXHAUST  GGG CRATE JRN / EXHAUST  STANDARD WHITE  MANUFACTURERS STANDARD WHITE  SIDE WALL PLY REGISTER  SEE PLANS  STANDARD WHITE  MANUFACTURERS STANDARD WHITE  SEE PLANS  STANDARD WHITE  MANUFACTURERS STANDARD WHITE  MANUFACTURERS STANDARD WHITE  MANUFACTURERS STANDARD WHITE  NO  MANUFACTURERS STANDARD WHITE | STANDARD WHITE  SQUARE ING DIFFUSER  14"Ø  STANDARD WHITE  SQUARE ING DIFFUSER  14"Ø  MANUFACTURERS STANDARD WHITE  SQUARE ING DIFFUSER  4"Ø  MANUFACTURERS STANDARD WHITE  SQUARE ING DIFFUSER  6"Ø  MANUFACTURERS STANDARD WHITE  SQUARE ING DIFFUSER  6"Ø  MANUFACTURERS STANDARD WHITE  SQUARE ING DIFFUSER  8"Ø  MANUFACTURERS STANDARD WHITE  SQUARE ING DIFFUSER  8"Ø  MANUFACTURERS STANDARD WHITE  GGG CRATE JRN / EXHAUST  10"X10"  MANUFACTURERS STANDARD WHITE  SIDE WALL PLY REGISTER  SEE PLANS  STANDARD WHITE  MANUFACTURERS NO  MANUFACTURERS STANDARD WHITE  MANUFACTURERS STANDARD WHITE  MANUFACTURERS NO  MANUFACTURERS NO  MANUFACTURERS NO  MANUFACTURERS NO  MANUFACTURERS NO  MANUFACTURERS NO  MANUFACTURERS STANDARD WHITE  MANUFACTURERS NO  MANUF |

(1) DUCT RUNOUT SHALL BE SAME SIZE AS NECK SIZE UNLESS NOTED OTHERWISE.

(2) SEE ARCHITECTURAL PLANS FOR CEILING TYPE. FURNISH LAY-IN TYPE FOR T-BAR CEILINGS AND SURFACE TYPE FOR ALL OTHER CEILINGS.
 (3) EXTRUDED ALUMINUM LOUVER - BAKED ENAMEL FINISH, STANDARD COLOR SELECTED BY ARCHITECT. FURNISH INSECT SCREEN AND FLANGE FRAME.
 (4) BLADES 14 GAUGE, FRAME 16 GAUGE HEAVY STEEL.

|          |            |           |              | <b>Ε</b> Λ | N SCH     | IEDIII | E         |           |             |        |  |
|----------|------------|-----------|--------------|------------|-----------|--------|-----------|-----------|-------------|--------|--|
|          |            |           |              | ГА         |           | ILDUL  |           |           |             |        |  |
| ITEM     | LOCATION   | C.F.M.    | EXT.<br>S.P. | WATTS      | R.P.M.    | SONES  | GREENHECK | ELECTRIC# | AL DATA (3) | NOTES  |  |
| I I LIVI | LOCATION   | C.I .IVI. | (IN. WC)     |            | IX.F.IVI. | SONES  | MODEL NO. | VOLTS     | PHASE       | NOTES  |  |
| F-1      | WOMENS 108 | 400       | 0.5          | 155        | 1170      | 1.1    | SP-A780   | 115       | 1Ø          | (1)(2) |  |
| F-2      | TOILET 111 | 80        | 0.5          | 30         | 780       | 2.5    | SP-A200   | 115       | 1Ø          | (1)(2) |  |
| F-3      | MENS 118   | 240       | 0.5          | 135        | 1130      | 3.0    | SP-A390   | 115       | 1Ø          | (1)(2) |  |
| F-4      | TOILET 136 | 80        | 0.5          | 30         | 780       | 2.5    | SP-A200   | 115       | 1Ø          | (1)(2) |  |
| F-5      | TOILET 135 | 80        | 0.5          | 30         | 780       | 2.5    | SP-A200   | 115       | 1Ø          | (1)(2) |  |
| F-6      | WOMENS 204 | 240       | 0.5          | 135        | 1130      | 3.0    | SP-A390   | 115       | 1Ø          | (1)(2) |  |
| F-7      | MENS 205   | 240       | 0.5          | 135        | 1130      | 3.0    | SP-A390   | 115       | 1Ø          | (1)(2) |  |
| F-8      | CUST. 206  | 80        | 0.5          | 30         | 780       | 2.5    | SP-A200   | 115       | 1Ø          | (1)(2) |  |

(1) FURNISH BACKDRAFT DAMPER, HANGING BRACKETS, METAL CEILING GRILLE, SPEED CONTROLLER, AND DISCONNECT MEANS.

(2) SWITCH WITH ROOM LIGHTS. FURNISH AUXILIARY CONTACTS AS REQUIRED.(3) COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL PLANS & CONTRACTOR BEFORE ORDERING EQUIPMENT. NOTIFY

engineer immediately if discrepancies found.

|        |        |            | VR         | F INDC | OR UN        | IT SCH       | EDULE (      | CONT    | INUE    | D)       |          |           |                              |
|--------|--------|------------|------------|--------|--------------|--------------|--------------|---------|---------|----------|----------|-----------|------------------------------|
|        | SUPPLY | EXT. S.P.  | FAN        | DD. /5 | COOLING CA   | AP. BTUH (1) | HEATING CAP. | ELE     | CTRICAL | DATA (2) |          | CARRIER   | T) (D.F.                     |
| ITEM   | C.F.M. | (IN. W.C.) | WATTS.     | DRIVE  | SENSIBLE     | TOTAL        | MBTUH (1)    | VOLTAGE | PHASE   | M.C.A.   | M.O.C.P. | MODEL NO. | TYPE                         |
| IDU-1A | 600    | -          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | WALL<br>CASSETTE             |
| IDU-1B | 470    | -          | 20         | DIRECT | 12,040       | 18,000       | 21.0         | 208/230 | 1       | .45      | 15       | 40VMW018  | WALL<br>CASSETTE             |
| IDU-1C | 600    | -          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | WALL<br>CASSETTE             |
| IDU-1D | 600    | -          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | WALL<br>CASSETTE             |
| IDU-1E | 600    | -          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | WALL<br>CASSETTE             |
| IDU-1F | 470    | -          | 20         | DIRECT | 12,040       | 18,000       | 21.0         | 208/230 | 1       | .45      | 15       | 40VMW018  | WALL<br>CASSETTE             |
| IDU-1G | 530    | -          | 20         | DIRECT | 15,330       | 24,000       | 27.0         | 208/230 | 1       | .86      | 15       | 40VMW024  | WALL<br>CASSETTE             |
| IDU-1H | 1370   | 0.5        | 240        | DIRECT | 32,140       | 48,670       | 54.0         | 208/230 | 1       | 5        | 15       | 40VMM048A | DUCTED<br>UNIT               |
| IDU-1J | 305    | -          | 37         | DIRECT | 9,490        | 15,210       | 17.0         | 208/230 | 1       | .53      | 15       | 40VMC015  | CEILING<br>CASSETTE          |
| IDU-1K | 530    | -          | 20         | DIRECT | 15,330       | 24,000       | 27.0         | 208/230 | 1       | .86      | 15       | 40VMW024  | WALL<br>CASSETTE             |
| IDU-1L | 390    | -          | 80         | DIRECT | 8,620        | 9,000        | 10.0         | 208/230 | 1       | .73      | 15       | 40VMF009A | CEILING<br>CASSETTE          |
| IDU-2A | 600    | -          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | WALL<br>CASSETTE             |
| IDU-2B | 600    | -          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | WALL<br>CASSETTE             |
| IDU-2C | 600    | -          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | WALL<br>CASSETTE             |
| IDU-2D | 600    | -          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | WALL<br>CASSETTE             |
| IDU-2E | 470    | -          | 20         | DIRECT | 12,040       | 18,000       | 21.0         | 208/230 | 1       | .45      | 15       | 40VMW018  | WALL<br>CASSETTE             |
| IDU-2F | 470    | -          | 20         | DIRECT | 12,040       | 18,000       | 21.0         | 208/230 | 1       | .45      | 15       | 40VMW018  | WALL<br>CASSETTE             |
| IDU-2G | 600    | -          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | WALL<br>CASSETTE             |
| IDU-2H | 270    | -          | 20         | DIRECT | 6,520        | 9,500        | 10.9         | 208/230 | 1       | .45      | 15       | 40VMW009  | WALL<br>CASSETTE             |
| IDU-2J | 270    | -          | 20         | DIRECT | 6,520        | 9,500        | 10.9         | 208/230 | 1       | .45      | 15       | 40VMW009  | WALL<br>CASSETTE             |
| IDU-3A | 1800   | 0.5        | 560        | DIRECT | 41,300       | 53,500       | 60.0         | 208/230 | 1       | 7.2      | 15       | 40VMV054A | DUCTED<br>UNIT               |
| IDU-3B | 600    | -          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | WALL<br>CASSETTE             |
| IDU-3C | 600    | -          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | WALL<br>CASSETTE             |
| IDU-3D | 600    | -          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | WALL<br>CASSETTE             |
| IDU-3E | 600    | -          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | WALL<br>CASSETTE             |
| IDU-3F | 280    | -          | 20         | DIRECT | 7,930        | 12,000       | 13.5         | 208/230 | 1       | .45      | 15       | 40VMW012  | WALL<br>CASSETTE             |
| IDU-3G | 420    | -          | 20         | DIRECT | 10,140       | 15,000       | 17.0         | 208/230 | 1       | .45      | 15       | 40VMW015  | WALL                         |
| IDU-3H | 600    | -          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | CASSETTE<br>WALL<br>CASSETTE |
| IDU-3J | 600    | -          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | WALL CASSETTE                |
| IDU-4A | 600    | _          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | WALL<br>CASSETTE             |
| IDU-4B | 600    | -          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | WALL                         |
| IDU-4C | 600    | _          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | CASSETTE<br>WALL             |
| IDU-4D | 600    | _          | 60         | DIRECT | 18,950       | 30,000       | 34.0         | 208/230 | 1       | .86      | 15       | 40VMW030  | CASSETTE<br>WALL             |
| IDU-4E | 280    | -          | 20         | DIRECT | 7,930        | 12,000       | 13.5         | 208/230 | 1       | .45      | 15       | 40VMW012  | CASSETTE<br>WALL             |
| DOAS-1 | 800    | 0.5        | 2 @<br>750 | DIRECT | 37,800       | 96,000       | 59.0         | 208/230 | 1       | 10       | 15       | 40VMA096  | CASSETTE VENTILATION         |
| RH-1   | 800    | 0.5        | 750<br>124 | DIRECT | -            | -            | 24.0         | 208/230 | 1       | 2.5      | 15       | 40VMZ024  | DUCTED                       |
|        |        |            |            |        | <del> </del> |              |              |         |         |          | . •      |           | UNIT                         |

(1) RATINGS IN ACCORDANCE WITH A.R.I. STANDARD 240.

(1) RATINGS IN ACCORDANCE WITH A.R.I. STANDARD 240.

(2) ELECTRICAL DATA PROVIDED IS BASED ON EQUIPMENT SELECTED AS BASIS OF DESIGN. VERIFY ELECTRICAL REQUIREMENTS WITH ELECTRICAL PLANS AND/OR CONTRACTOR BEFORE ORDERING EQUIPMENT. NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ELECTRICAL DATA IF OTHER MANUFACTURERS ARE FURNISHED.

|       |        |            |        |         | IN     | DOOR       | HEAT F       | PUMP S  | CHED   | JLE             |       |          |          |           |        |
|-------|--------|------------|--------|---------|--------|------------|--------------|---------|--------|-----------------|-------|----------|----------|-----------|--------|
|       | SUPPLY | EXT. S.P.  | O.A.   | FAN     |        | COOLING CA | AP. BTUH (1) | AUX. HE | AT (2) | ELECTRICAL DATA |       | DATA (3) |          | CARRIER   | NOTES  |
| ITEM  | C.F.M. | (IN. W.C.) | C.F.M. | HP.     | DRIVE  | SENSIBLE   | TOTAL        | K.W.    | STGS.  | VOLTAGE         | PHASE | M.C.A.   | M.O.C.P. | MODEL NO. | 110120 |
| IHP-1 | 2000   | 0.5        | 270    | 3/4     | DIRECT | 42,010     | 56,340       | 9       | 1      | 208/230         | 3     | 32.0     | 35       | FV4CNB006 | (4)    |
| IHP-2 | 3000   | 0.5        | 350    | 2.4 BHP | DIRECT | 65,700     | 90,500       | 15      | 1      | 208/230         | 3     | 47.1     | 50       | 40RFQA08  |        |
| IHP-3 | 3000   | 0.5        | 350    | 2.4 BHP | DIRECT | 65,700     | 90,500       | 15      | 1      | 208/230         | 3     | 47.1     | 50       | 40RFQA08  |        |
| IHP-4 | 1400   | 0.5        | 150    | 1/2     | DIRECT | 29,660     | 39,670       | 9       | 1      | 208/230         | 3     | 32.0     | 35       | FV4CNF005 | -      |
|       |        |            |        |         |        |            |              |         |        |                 |       |          | _        |           |        |
|       |        |            |        |         |        |            |              |         |        |                 |       |          |          |           |        |

(1) RATINGS IN ACCORDANCE WITH A.R.I. STANDARD 240.(2) HEATER SIZED AT 208 VOLT. COORDINATE WITH ELECTRICAL PLANS.

(4) FURNISH DUAL STAGE UNIT.

(3) ELECTRICAL DATA PROVIDED IS BASED ON EQUIPMENT SELECTED AS BASIS OF DESIGN. VERIFY ELECTRICAL REQUIREMENTS WITH ELECTRICAL PLANS AND/OR CONTRACTOR BEFORE ORDERING EQUIPMENT. NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ELECTRICAL DATA IF OTHER MANUFACTURERS ARE FURNISHED.

(4) FURNISH 2 STAGE COOLING.

|       |                     |               | OUTDOOR I                    | HEAT P | UMP SC | CHEDL   | JLE     |           |          |                      |
|-------|---------------------|---------------|------------------------------|--------|--------|---------|---------|-----------|----------|----------------------|
| ITEM  | COOLING<br>CAPACITY | IEER.         | HEATING<br>CAPACITY BTUH (1) | C.O.I  | P. (1) | EL      | ECTRICA | L DATA (2 | ?)       | CARRIER<br>MODEL NO. |
|       | (1) BTUH            | MIN.          | HI                           | HI     | LO     | VOLTAGE | PHASE   | M.C.A.    | M.O.C.P. | MODEL NO.            |
| OHP-1 | 56,340              | 16.0<br>SEER2 | 39,790                       | 3.64   | 2.74   | 208/230 | 1       | 33.4      | 60       | 25TPA760 (3)         |
| OHP-2 | 90,500              | 15.3          | 86,670                       | 3.5    | 1      | 208/230 | 3       | 35        | 50       | 38AUQN08 (4)         |
| OHP-3 | 90,500              | 15.3          | 86,670                       | 3.5    | 1      | 208/230 | 3       | 35        | 50       | 38AUQN08 (4)         |
| OHP-4 | 38,650              | 15.2<br>SEER2 | 42,150                       | 3.76   | 2.68   | 208/230 | 1       | 24.7      | 40       | 25SCA542             |
|       |                     |               |                              |        |        |         |         |           |          |                      |
|       |                     |               |                              |        |        |         |         |           |          |                      |

(1) RATINGS IN ACCORDANCE WITH A.R.I. STANDARD 240.
(2) ELECTRICAL DATA PROVIDED IS BASED ON EQUIPMENT SELECTED AS BASIS OF DESIGN. VERIFY ELECTRICAL REQUIREMENTS WITH ELECTRICAL PLANS AND/OR CONTRACTOR BEFORE ORDERING EQUIPMENT. NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ELECTRICAL DATA IF OTHER MANUFACTURERS ARE PROVIDED.
(3) FURNISH 2 STAGE COOLING.

| REFRIGERATION PIPE SCHEDULE |                          |                        |  |  |  |  |  |
|-----------------------------|--------------------------|------------------------|--|--|--|--|--|
| ITEM                        | SUCTION<br>LINE O.D. (1) | LIQUID LINE<br>O.D.(1) |  |  |  |  |  |
| IHP-1/OHP-1                 | 7/8"                     | 3/8"                   |  |  |  |  |  |
| IHP-2/OHP-2                 | 1 1/8"                   | 1/2"                   |  |  |  |  |  |
| IHP-3/OHP-3                 | 1 1/8"                   | 1/2"                   |  |  |  |  |  |
| IHP-4/OHP-4                 | 7/8"                     | 3/8"                   |  |  |  |  |  |
|                             |                          |                        |  |  |  |  |  |
|                             |                          |                        |  |  |  |  |  |

| GRAVITY HOOD SCHEDULE |                      |                                     |   |   |   |  |  |  |
|-----------------------|----------------------|-------------------------------------|---|---|---|--|--|--|
| LOCATION              | C.F.M.               | S.P.<br>(IN. WC)                    | FREE AREA<br>(S.F.)   | GREENHECK<br>MODEL NO.  | NOTES   |  |  |  |
| ROOF                  | 160                  | 0.04"                               | .37   | GRSR-08   | (1)   |  |  |  |
| ROOF                  | 560                  | 0.04"                               | 1.12  | GRSR-15   | (1)   |  |  |  |
| ROOF                  | 200                  | 0.04"                               | .57   | GRSI-10   | (1)   |  |  |  |
|                       | LOCATION  ROOF  ROOF | LOCATION C.F.M.  ROOF 160  ROOF 560 | LOCATION         C.F.M.         S.P. (IN. WC)           ROOF         160         0.04"           ROOF         560         0.04" | LOCATION         C.F.M.         S.P. (IN. WC)         FREE AREA (S.F.)           ROOF         160         0.04"         .37           ROOF         560         0.04"         1.12 | LOCATION         C.F.M.         S.P. (IN. WC)         FREE AREA (S.F.)         GREENHECK MODEL NO.           ROOF         160         0.04"         .37         GRSR-08           ROOF         560         0.04"         1.12         GRSR-15 |  |  |  |

(1) FURNISH ROOF CURB AND INSECT SCREEN.

(1) REFRIGERANT PIPE SIZES INDICATED ARE FOR ESTIMATING PURPOSES ONLY. EXACT SIZES AND ACCESSORIES REQUIRED SHALL BE DETERMINED BY EQUIPMENT MANUFACTURER FROM FIELD OBTAINED DIMENSIONS.

|        | VRF OUTDOOR UNIT SCHEDULE |      |                     |        |                     |       |     |      |           |       |
|--------|---------------------------|------|---------------------|--------|---------------------|-------|-----|------|-----------|-------|
| ITEM   | COOLING<br>CAPACITY       | EER. | HEATING<br>CAPACITY | C.O.P. | ELECTRICAL DATA (2) |       |     |      | CARRIER   | NOTES |
| 112111 | (1) MBTUH                 | MIN. | M.B.H. (1)          | C.O.P. | VOLTAGE             | PHASE | MCA | MOCP | MODEL NO. | NOTES |
| ODU-1  | 204,000                   | 10.9 | 222.0               | 3.29   | 208/230             | 3     | 81  | 100  | 38VMA216R | -     |
| ODU-2  | 158,000                   | 11.8 | 180.0               | 3.59   | 208/230             | 3     | 70  | 80   | 38VMA168R | -     |
| ODU-3  | 220,000                   | 10.4 | 230.0               | 3.20   | 208/230             | 3     | 81  | 100  | 38VMA240R | -     |
| ODU-4  | 114,000                   | 11.4 | 120.0               | 3.45   | 208/230             | 3     | 46  | 50   | 38VMA120R | -     |
| ODU-5  | 136,000                   | 12.3 | 150.0               | 3.60   | 208/230             | 3     | 70  | 80   | 38VMA144R | -     |

(1) RATINGS IN ACCORDANCE WITH A.R.I. STANDARD 240.

(1) NATINGS IN ACCORDANCE WITH A.R.I. STANDARD 240.

(2) ELECTRICAL DATA PROVIDED IS BASED ON EQUIPMENT SELECTED AS BASIS OF DESIGN. VERIFY ELECTRICAL REQUIREMENTS WITH ELECTRICAL PLANS AND/OR CONTRACTOR BEFORE ORDERING EQUIPMENT. NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ELECTRICAL DATA IF OTHER MANUFACTURERS ARE PROVIDED.

| MULTIPORT DISTRIBUTION CONTROLLER |                            |         |          |      |               |  |  |
|-----------------------------------|----------------------------|---------|----------|------|---------------|--|--|
| ITFM                              | NUMBER OF<br>REFRIGERATION | ELECT   | RICAL DA | TA   | CARRIER MODEL |  |  |
| I I EIVI                          | BRANCHES                   | VOLTAGE | PHASE    | MCA  | NO (1)        |  |  |
| MDC-1                             | 16                         | 208     | 1        | 1.54 | 40VMD016M     |  |  |
| MDC-2                             | 10                         | 208     | 1        | 1.05 | 40VMD010M     |  |  |
| MDC-3                             | 10                         | 208     | 1        | 1.05 | 40VMD010M     |  |  |
| MDC-4                             | 6                          | 208     | 1        | 0.73 | 40VMD006M     |  |  |
| MDC-5                             | 6                          | 208     | 1        | 0.73 | 40VMD006M     |  |  |

(1) FURNISH ISOLATION BALL VALVES IN EACH BRANCH.

| ELECTRIC HEATER SCHEDULE |                 |          |                 |           |             |       |  |  |
|--------------------------|-----------------|----------|-----------------|-----------|-------------|-------|--|--|
| ITENA                    | LOCATION        | VA/A TTO | QMARK           | ELECTRICA | AL DATA (2) | NOTEC |  |  |
| ITEM                     | LOCATION        | WATIS    | WATTS MODEL NO. |           | PHASE       | NOTES |  |  |
| WH-1                     | SPRINKLER RISER | 1500     | AWH-4000 SERIES | 120       | 1           | (1)   |  |  |
|                          |                 |          |                 |           |             |       |  |  |

(1) FURNISH RECESSED WALL BOX/TRIM KIT AND UNIT MOUNTED, CONCEALED THERMOSTAT.
(2) COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL PLANS & CONTRACTOR BEFORE ORDERING EQUIPMENT. NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES FOUND.



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WAC NOTES, LEGEND & SCHEDULE



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PROJECT DATE

21-036
PROJECT NUMBER

SHEET

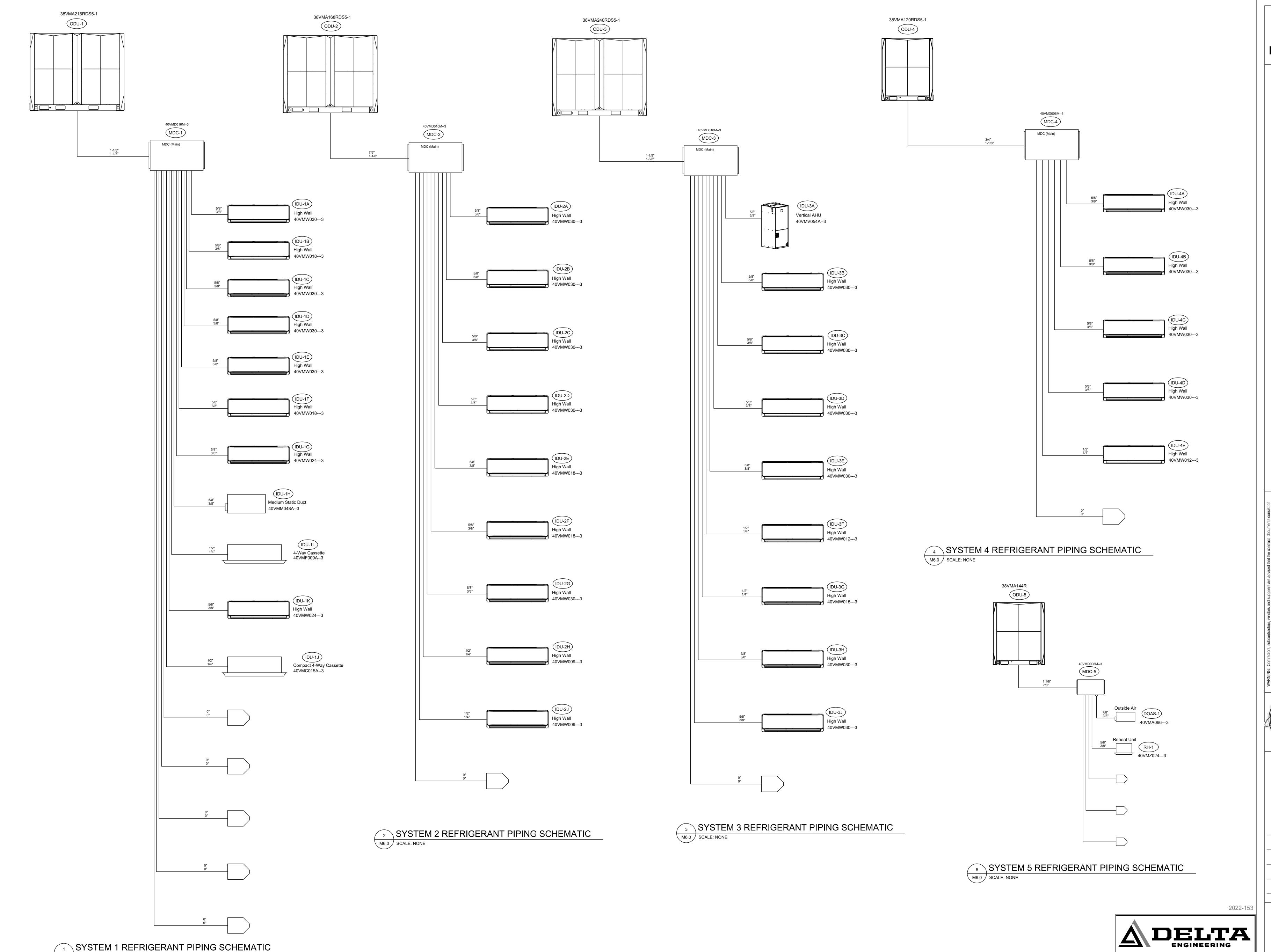
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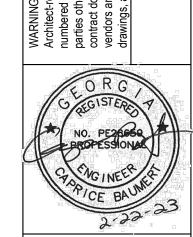


M6.0 SCALE: NONE

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REFRIGERANT PIPING SCHEMATICS



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CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL CONTAINING 3 NUMBER 12 CONDUCTORS UNLESS SHOWN OTHERWISE. HASH MARKS, IF SHOWN, INDICATE QUANTITY OF NUMBER 12 CONDUCTORS. WHERE DRAWING SPACE PROHIBITS HASH MARKS BEING SHOWN REFER TO CIRCUIT NUMBERS AND PROVIDE REQUIRED NUMBER OF CONDUCTORS PER CIRCUIT TYPE.

CONDUIT RUN CONCEALED IN OR BELOW FLOOR SLAB, OR UNDERGROUND.

HOMERUN TO PANELBOARD, LETTER OR LETTERS INDICATE PANELBOARDS, NUMBERS INDICATE CIRCUIT NUMBERS.

SEE FIXTURE SCHEDULE FOR DIMENSIONS AND MOUNTING TYPE.

EMERGENCY L.E.D. LIGHTING FIXTURE CONNECTED TO EMERGENCY GENERATOR CIRCUIT.

L.E.D. LIGHTING FIXTURE, "2" INDICATES THE CIRCUIT NUMBER AND "E" THE FIXTURE TYPE.

SEE FIXTURE SCHEDULE FOR DIMENSIONS AND MOUNTING.

L.E.D. FIXTURE, SURFACE OR STEM MOUNTED.

L.E.D. TROFFER FIXTURE. SEE FIXTURE SCHEDULE FOR DIMENSIONS

EMERGENCY L.E.D. TROFFER. SEE FIXTURE SCHEDULE FOR DIMENSIONS, MOUNTING TYPE AND BATTERY PACK INFORMATION (IF APPLICABLE).

L.E.D. LIGHTING FIXTURE, SURFACE WALL BRACKET MOUNTED. MOUNTING HEIGHT AS NOTED.

EMERGENCY PACK FIXTURE.

☐ JUNCTION BOX, FLUSH WALL MOUNTED.

JUNCTION BOX LOCATED ABOVE CEILING OR BELOW GRADE.

DUPLEX CONVENIENCE OUTLET, +18" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED. 5" INDICATES THE CIRCUIT NUMBER.

DUPLEX CONVENIENCE OUTLET MOUNTED ABOVE COUNTER, AT +46" TO CENTERLINE OF OUTLET.

DUPLEX CONVENIENCE OUTLET, GFI TYPE. +18" TO CENTER LINE UNLESS OTHERWISE NOTED.
"WP" WHERE SHOWN INDICATES WEATHER-RESISTENT DEVICE WITH METAL IN-USE

DUPLEX CONVENIENCE OUTLET, GFI TYPE. MOUNTED ABOVE COUNTER AT +46" TO CENTERLINE OF RECEPTACLE UNLESS NOTED OTHERWISE.

QUADRUPLEX RECEPTACLE, +18" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.

SINGLE POLE TOGGLE SWITCH, +46" TO CENTER LINE MOUNTING HEIGHT.

THREE OR FOUR WAY SWITCH AS INDICATED. +46" TO CENTER LINE MOUNTING HEIGHT.

SINGLE POLE DIGITAL ASTRONOMIC TIMER SWITCH WITH 24/7 AND QTY 40 EVENT PROGRAMMABLE OPTIONS. +46" TO CENTER LINE MOUNTING HEIGHT. INTERMATIC E1600 OR EQUAL.

LED DECORA STYLE DIMMER WITH ROCKER ON/OFF SWITCH AND SLIDE DIMMER ON SIDE OF ROCKER. 0-10VDC CAPABLE DIMMER +3'-6" MOUNTING HEIGHT. LUTRON "DIVA 0-10V" OR EQUAL BY LEVITON, WATTSTOPPER, HUBBELL, OR COOPER. (NO ADDITIONAL POWER PACK REQUIRED). DIVISION 26 SHALL PROVIDE ALL ADDITONAL CONDUCTORS TO ALL FIXTURES CONNECTED FOR A PROPER 0-10VDC OPERATION. GRAY FINISH.

LED DECORA STYLE DIMMER WITH ROCKER ON/OFF SWITCH AND SLIDE DIMMER ON SIDE OF ROCKER.
0-10VDC CAPABLE DIMMER WITH PASSIVE INFRARED OCCUPANCY SENSOR. +3'-6" MOUNTING HEIGHT, GRAY FINISH. LUTRON "DIVA 0-10V" OR EQUAL BY LEVITRON, WATTSTOPPER, HUBBELL OR COOPER. DIMMER MUST BE COMPATIBLE WITH ALL LIGHTING COMPONENTS (NO ADDITIONAL POWER PACK REQUIRED).
DIVISION 26 SHALL PROVIDE ALL ADDITIONAL CONDUCTORS TO ALL FIXTURES CONNECTED FOR PROPER 0-10V OPERATION.

LED DECORA STYLE DIMMER WITH ROCKER ON/OFF SWITCH AND SLIDE DIMMER ON SIDE OF ROCKER. 0-10VDC CAPABLE THREE WAY DIMMER, +3'-6" MOUNTING HEIGHT. LUTRON "DIVA 0-10V" OR EQUAL BY LEVITON, WATTSTOPPER, HUBBELL, OR COOPER. (NO ADDITIONAL POWER PACK REQUIRED). DIVISION 26 SHALL PROVIDE ALL ADDITONAL CONDUCTORS TO ALL FIXTURES CONNECTED FOR A PROPER 0-10VDC OPERATION. GRAY FINISH.

DISCONNECT SWITCH, SIZE AS NOTED ON DRAWINGS. FUSED PER MANUFACTURER'S NAME PLATE DATA OF EQUIPMENT SERVED.

120V MOTOR

ELECTRICAL WATER COOLER. PROVIDE A DUPLEX RECEPTACLE AT WATER COOLER. CIRCUIT SHALL BE GFCI PROTECTED. REFER TO DETAIL 2/E1.0 FOR ROUGH-IN.

#### FIRE ALARM SYSTEM

VOICE EVACUATION SIGNAL, SPEAKER, AND STROBE LIGHT, +6'-10" MOUNTING HEIGHT TO CENTER OF DEVICE

STROBE LIGHT, 6'-10" MOUNTING HEIGHT TO CENTER OF DEVICE.

PULL STATION. WALL MOUNTED +46" TO CENTER LINE MOUNTING HEIGHT.

FIRE ALARM CONTROL PANEL. SURFACE WALL MOUNTED.

FIRE ALARM DOCUMENTATION BOX.

HEAT DETECTOR, CEILING MOUNTED.

SMOKE DETECTOR, CEILING MOUNTED.

DUCT SMOKE DETECTOR, LOCATED AT HVAC UNIT OR UP STREAM OF SMOKE DAMPER.
COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS PRIOR TO ROUGHING IN.

TAMPER SWITCH, FURNISHED AND INSTALLED WITH SPRINKLER SYSTEM. INTERLOCK WITH FIRE ALARM SYSTEM BY ELECTRICAL.

FLOW SWITCH, FURNISHED AND INSTALLED WITH SPRINKLER SYSTEM. INTERLOCK WITH FIRE

ALARM SYSTEM BY ELECTRICAL.

VOICE EVACUATION REMOTE MICROPHONE.

CONTROL/MONITOR MODULE.

TELECOMMUNICATIONS SYSTEMS (SEE E5.1 FOR CABLING REQUIREMENTS)

DATA RACK, 2 POST, WITH VERTICAL CABLE WIRE MANAGEMENT. SEE SPECIFICATIONS.

TELECOMMUNICATIONS OUTLET, +18" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 1"C. TO CEILING SPACE ABOVE.

TELECOMMUNICATIONS OUTLET FOR CCTV CAMERA USE, +6" ABOVE ACCESSIBLE CEILING UNLESS

TELECOMMUNICATIONS OUTLET, +46" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 1"C. TO CEILING SPACE ABOVE.

NOTED OTHERWISE. CCTV CAMERA IS BY OTHERS.

OCCUPANCY SENSORS

SWITCH, WALL MOUNTED OCCUPANCY SENSOR (WATTSTOPPER PW-100 OR EQUAL). +46" TO

Y CENTER LINE MOUNTING HEIGHT.

DUAL TECHNOLOGY 360° OCCUPANCY SENSOR. CEILING MOUNTED. INFRARED/ULTRASONIC

(WATTSTOPPER "DT" SERIES OR EQUAL). PROVIDE ALL NECESSARY COMPONENTS TO INSURE PROPER OPERATION (POWER PACKS, SLAVE PACKS, ETC.)

DUAL TECHNOLOGY OCCUPANCY SENSOR. CEILING MOUNTED AT CORNER UNLESS SHOWN OTHERWISE. INFRARED/ULTRASONIC (WATTSTOPPER "DT" SERIES OR EQUAL). PROVIDE ALL NECESSARY COMPONENTS TO INSURE PROPER OPERATION (POWER PACKS, SLAVE PACKS, ETC.)

ULTRASONIC OCCUPANCY SENSOR. CEILING MOUNTED (WATTSTOPPER "UT" SERIES OR EQUAL).
PROVIDE ALL NECESSARY COMPONENTS TO INSURE PROPER OPERATION (POWER PACKS, SLAVE

EQUAL). PROVIDE ALL NECESSARY COMPONENTS TO INSURE PROPER OPERATION (POWER

PACKS, ETC.)

ULTRASONIC HALLWAY OCCUPANCY SENSOR. CEILING MOUNTED. (WATTSTOPPER "WT-2255" OR

PACKS, SLAVE PACKS, ETC.)

INTRUSION ALARM

INTRUSION ALARM DETECTOR, INFRARED. CEILING MOUNTED UNIT. 50'-0" COVERAGE UNLESS OTHERWISE NOTED.

INTRUSION ALARM, KEY PAD. +46" TO CENTER LINE MOUNTING HEIGHT.

intrusion alarm control panel.

|                              | DESCRIPTION  LED FIXTURE. 2' x 4' RECESSED CEILING GRID TYPE BACK-LIT FLAT PANEL FIXTURE WITH SINGLE PIECE   |   |
|------------------------------|--|---|
| А                            | INJECTION FRAME AND SMOOTH WHITE LENS. PROVIDE NEW GYPBOARD FLANGE MOUNT TRIM KIT WHERE SHOWN IN AREAS WITHOUT CEILING GRID. FIXTURE SHALL BE CAPABLE OF BOTH FIELD ADJUSTABLE LUMENS (4K, 5K, 6.5K) AND COLOR TEMP (3.5K, 4K, 5K). SET LEVELS AS NOTED BELOW.  LAMPS: L.E.D., 35 WATTS, 5000 LUMENS (MEDIUM), 3500°K DRIVER: MULTIVOLT, 0-10V DIMMING   | LITHONIA "CPX" SERIES METALUX "CGTS" SERIES COLUMBIA "CBT" SERIES ORACLE "FPL" SERIES CREE "FP" SERIES GE CURRENT "LPL" SERIES                |
| В                            | LED FIXTURE, 2' x 2' RECESSED CEILING GRID TYPE BACK-LIT FLAT PANEL FIXTURE WITH SINGLE PIECE INJECTION FRAME AND SMOOTH WHITE LENS. FIXTURE SHALL BE CAPABLE OF BOTH FIELD ADJUSTABLE LUMENS (2.5K, 3.6K, 4.5K) AND COLOR TEMP (3.5K, 4K, 5K). SET LEVELS AS NOTED BELOW.  LAMPS: L.E.D., 27.5 WATTS, 3650 LUMENS (MEDIUM), 3500°K DRIVER: MULTIVOLT, 0-10V DIMMING   | LITHONIA "CPX" SERIES METALUX "CGTS" SERIES COLUMBIA "CBT" SERIES ORACLE "FPL" SERIES CREE "FP" SERIES GE CURRENT "LPL" SERIES                |
| С                            | 4' L.E.D. LENSED STRIP LIGHT FIXTURE SURFACE MOUNTED WITH WHITE FINISH. (SURFACE, STEM, OR CHAIN SUSPEND WHERE REQUIRED). FIXTURE SHALL BE CAPABLE OF BOTH FIELD ADJUSTABLE LUMENS (3.2K, 4.2K, 5K) AND COLOR TEMP (3.5K, 4K, 5K). SET LEVELS AS NOTED BELOW.  LAMPS: L.E.D., 36 WATTS, 4200 LUMENS (MEDIUM), 3500°K DRIVER: MULTIVOLT, 0-10V DIMMING  | LITHONIA "CSS" SERIES METALUX "SLSTP" SERIES, COLUMBIA "CSL" SERIES ELITE "OEC" SERIES JADEMAR "JSTRE" SERIES GE CURRENT "PSF" SERIES         |
| C8                           | SAME AS TYPE "C" EXCEPT WITH 8' HOUSING AND SET AT 8200 LUMENS (MEDIUM)  |   |
| D                            | RECESSED COMMERCIAL GRADE DOWNLIGHT WITH 6" APERTURE. FIXTURE SHALL BE CONSTRUCTED OUT OF 16 GAUGE GALVANIZED STEEL WITH SEMI-SPECULAR REFLECTOR AND BLACK FLANGE. FIXTURE SHALL BE CAPABLE OF BOTH FIELD ADJUSTABLE LUMENS (1K, 1.5K, 2K) AND COLOR TEMP (3K, 3.5K, 4K, 5K). SET LEVELS AS NOTED BELOW.  LAMPS: L.E.D., 13 WATTS, 1500 LUMENS (MEDIUM), 3500°K DRIVER: MULTIVOLT, 0-10V DIMMING   | LITHONIA "LBR6" SERIES HALO "PD" SERIES PRESCOLITE "LBPR" SERIES ELITE "HH" SERIES GREEN CREATIVE "SLFT" SERII HELIOS "6R" SERIES             |
| E                            | TWIN HEAD EMERGENCY FIXTURE WITH SEALED NI-CAD BATTERIES, INTEGRAL TEST SWITCH, INDICATOR LAMP, WHITE HOUSING FINISH, 120/277 VOLT INPUT.  LAMPS: TWO(2) - 1.2 WATT / 110 LUMEN L.E.D.   | LITHONIA "ELM2L" SERIES COOPER COLUMBIA SIGNIFY BARRON GE CURRENT   |
| F                            | HISTORICAL PERIOD DECORATIVE PENDANT MOUNTED FIXTURE WITH 25" DIAMETER CAST METAL RINGED HOUSING AND DEEP WHITE FORMED ACRYLIC BOWL. PROVIDE WITH DECORATIVE CHAINED SUPPORT RODS AND OVERALL HEIGHT AS SHOWN ON ARCHITECTURAL ELEVATIONS. COORDINATE FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING.  LAMPS: L.E.D., 105 WATTS, 9100 LUMENS, 3500°K DRIVER: MULTIVOLT, 0-10V DIMMING   | OCL "CAMELOT" SERIES<br>OR PREAPPROVED EQUAL  |
| G                            | HISTORICAL PERIOD DECORATIVE SURFACE MOUNTED FIXTURE WITH 24" DIAMETER STEEL RINGED HOUSING WITH DECORATIVE CROSSBARS AND SMOOTH WHITE ACRYLIC LENS. COORDINATE FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING. CONTRACTOR  LAMPS: L.E.D., 36 WATTS, 4000 LUMENS, 3500°K DRIVER: MULTIVOLT, 0-10V DIMMING   | LIGHTWAY "RERC" SERIES<br>OR PREAPPROVED EQUAL  |
| н                            | RECESSED COMMERCIAL GRADE DOWNLIGHT WITH 6" APERTURE. FIXTURE SHALL BE CONSTRUCTED OUT OF 16 GAUGE GALVANIZED STEEL WITH SEMI-SPECULAR REFLECTOR, MEDIUM-WIDE DISTRIBUTION, AND BLACK FLANGE. FIXTURE SHALL BE CAPABLE OF BOTH FIELD ADJUSTABLE LUMENS (4K, 4.5K, 5K) AND COLOR TEMP (3K, 3.5K, 4K, 5K). SET LEVELS AS NOTED BELOW.  LAMPS: L.E.D., 40 WATTS, 4000 LUMENS (LOW), 3500°K DRIVER: MULTIVOLT, 0-10V DIMMING   | LITHONIA "LBR6" SERIES HALO "PD" SERIES PRESCOLITE "LBPR" SERIES ELITE "HH" SERIES GREEN CREATIVE "SLFT" SERI HELIOS "6R" SERIES              |
| J                            | SURFACE MOUNTED LINEAR CHANNEL MIRROR/VANITY LIGHT WITH MEDIUM BASE LAMP HOLDERS AT 6in ON CENTER. CHANNEL SHALL BE EXTRUDED ALUMINUM HOUSING WITH FINISH AS DIRECTED BY OWNER / ARCHITECT. CHANNEL HOUSING SHALL BE PROVIDED WITH 90° BENDS TO WRAP AROUND MIRROR PER DETAIL 3/E2.0. PROVIDE WITH ROUND LAMP GUARD FOR LAMPS.   | CELESTIAL "AQUARIUS" SERIE<br>OR PREAPPROVED EQUAL  |
|                              | LUMEN OUTPUT: L.E.D. A19 SCREW-IN, 6 WATT, 480 LUMENS, 3500°K (SATCO #S29832)  DRIVER: 120V, LINE VOLT DIMMING   |   |
| К                            | L.E.D. SURFACE MOUNTED FIXTURE WITH ULTRA-LOW PROFILE 11"DIAMETER WHITE FINISHED HOUSING AND DIFFUSED ACRYLIC LENS. WHERE SHOWN AS EMERGENCY, BATTERY AND TEST SWITCH SHALL BE INTEGRAL (REMOTE MOUNTING NOT ACCEPTABLE).  LUMEN OUTPUT: L.E.D., 15 WATT, MIN 1100 LUMENS, 3500°K DRIVER: MULTI-VOLT, STANDARD 0-10V DIMMING   | JUNO "JSF" SERIES HALO "SMD6R" SERIES RAYON "RBS-JRD" SERIES OR PREAPPROVED EQUAL   |
| L                            | 2'-0" SURFACE WALL MOUNTED FIXTURE WITH CURVED SMOOTH IMPACT RESISTANT ACRYLIC FROSTED DIFFUSER AND WHITE STEEL HOUSING.  LAMPS: L.E.D., 30 WATT, 3300 LUMENS, 3500°K DRIVER: MULTIVOLT, 0-10V DIMMING   | LITHONIA "BLWP2" SERIES<br>COLUMBIA "CNW" SERIES<br>METALUX "SWLED" SERIES<br>H.E. WILLIAMS "SFL" SERIES<br>ILP "SQ4" SERIES                  |
| М                            | PENDANT MOUNTED CYLINDER DOWNLIGHT WITH 6" APERTURE. FIXTURE SHALL BE CONSTRUCTED OUT OF 16 GAUGE GALVANIZED STEEL WITH SEMI-SPECULAR REFLECTOR, BLACK FLANGE, AND DARK BRONZE FINISH. PROVIDE WITH 3/4" x 36" FIELD CUTTABLE STEM FOR MOUNTING AND COORDINATE OVERALL HEIGHT OF FIXTURE WITH ARCHITECTURAL ELEVATIONS.  LAMPS: L.E.D., 45 WATTS, 4000 LUMENS, 3500°K DRIVER: MULTIVOLT. 0-10V DIMMING   | LITHONIA "LDN6CYL" SERIES HALO "HCC6" SERIES PRESCOLITE "LTC-6RD" SERIE ELITE "SCH6" SERIES GREEN CREATIVE "PXCYL" HELIOS "C6R" SERIES        |
| N                            | HISTORICAL PERIOD DECORATIVE WALL SCONCE WITH 17"WIDE CAST SOLID BRASS HOUSING AND DEEP WHITE FORMED ACRYLIC QUARTER SPHERE. COORDINATE WITH ARCHITECTURAL ELEVATIONS FOR EXACTING MOUNTING HEIGHT. COORDINATE FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING.  LAMPS: L.E.D., 15 WATTS, 1125 LUMENS, 3500°K DRIVER: MULTIVOLT, 0-10V DIMMING   | OCL "CAMELOT - CM1" SERIES<br>OR PREAPPROVED EQUAL  |
| Р                            | RECESSED WALL MOUNTED STEP LIGHT TO BE MOUNTED AT 18" (TO THE TOP) ABOVE STAIR TREAD. FIXTURE TO HAVE DIE-CAST BRASS HOUSING WITH NO VISIBLE MOUNTING HARDWARE, MOUNTS IN STANDARD SINGLE GANG BOX, INTEGRAL DRIVER, AND INTEGRATED PHOTOCELL. COORDINATE FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING  LAMPS: L.E.D., 2 WATTS, 65 LUMENS, 3000°K DRIVER: 120 VOLT  | WAC "WL-LED202" SERIES<br>OR PREAPPROVED EQUAL  |
| Q                            | DECORATIVE WALL MOUNTED EXTERIOR SCONCE WITH 17" DIAMETER ROUND FROSTED ACRYLIC LENS DOME SET IN DIE-CAST ALUMINUM BRACKETED HOUSING. FIXTURES SHALL FULL GASKeTED AND IP65 / WET LISTED RATED IN FINISH AS DIRECTED BY OWNER / ARCHITECT. FIXTURE DRIVER SHALL BE INTEGRAL TO FIXTURE. PROVIDE WITH MINIMUM 15IN 90° BULL HORN WALL MOUNT ARM.  LAMPS: L.E.D., 25 WATTS, 3120 LUMENS, 4000°K DRIVER: MULTIVOLT  | CRYSTAL "CLP-M56" SERIES<br>OR PREAPPROVED EQUAL  |
| R                            | EXTERIOR WALL MOUNTED TRAPEZOID FIXTURE WITH SEALED DIE-CAST ALUMINUM IP66 RATED HOUSING AND "DARK SKY" CUT-OFF TYPE-4 OPTIC DISTRIBUTION. PROVIDE DARK BRONZE FINISH. MOUNT AT 15'-0" ABOVE GRADE UNLESS OTHERWISE DIRECTED BY ARCHITECTURAL EXTERIOR ELEVATIONS.  LAMPS: L.E.D., 47 WATTS, 4200 LUMENS, 4000°K DRIVER: MULTIVOLT, 0-10V DIMMING  | LITHONIA "WDGE2" SERIES<br>MCGRAW-EDISON "IST" SERIE<br>BEACON "TRP" SERIES<br>GARDCO "ASW25" SERIES<br>ILP "WPCS" SERIES<br>LSI "GST" SERIES |
| S                            | LINEAR FLOOR MOUNTED AISLE LIGHTING WITH "CARPET-TO-FLOOR" MOUNTING OPTION. PROVIDE IN CONTINUOUS LENGTHS AS SHOWN IN PLANS OR IN SECTIONS AS NOTED ON PLANS. FIXTURE SHALL BE TRIP HAZARD / ADA COMPLIANT, DURABLE PVC SMOKE-COLORED LENS RATED FOR EXTREME LOADS, AND LED LAMPS TO BE SPACED 6" ON CENTER.  LAMPS: L.E.D., .22 WATTS, 3000°K DRIVER: REMOTE LOCATED 120 VOLT / 12VDC   | CELESTIAL "GEMINI 1900" SER<br>OR PREAPPROVED EQUAL   |
| Т                            | LED COMPACT FLOOD LIGHT WITH INTEGRAL STANCHION MOUNT OPTIONS AT GROUND AND DIE CAST ALUMINUM, IP66 RATED, AND DARK BRONZE FINISHED HOUSING. STANCHION SHALL BE SWIVEL CAPABLE AND WITH SET SCREW LOCKING OPTION FOR AIMING. FIXTURE SHALL BE CAPABLE OF BOTH FIELD ADJUSTABLE LUMENS (1.5K, 3K, 5K), COLOR TEMP (3K, 4K, 5K), INTEGRAL PHOTOCELL, AND WIDE FLOOD (7x7) OPTICS. SET LEVELS AS NOTED BELOW, LOCATED FIXTURE AT 7.5FT SETBACK, AND AIM FIXTURE AT BUILDING SIGN.  LAMPS: LED, 19 WATT, 3000 LUMENS (MED), 4000°K | LITHONIA "ESXF1" SERIES<br>LUMARK "LSF" SERIES<br>OR PREAPPROVED EQUAL  |
| U                            | DRIVER: MULTIVOLT ELECTRONIC  LED COMPACT FLOOD LIGHT WITH INTEGRAL STANCHION MOUNT OPTIONS AT GROUND AND DIE CAST ALUMINUM, IP66 RATED, AND DARK BRONZE FINISHED HOUSING. STANCHION SHALL BE SWIVEL CAPABLE AND WITH SET SCREW LOCKING OPTION FOR AIMING. PROVIDE WITH NARROW SPOT (3x3) OPTICS AND UPPER VISOR, AND INTEGRAL PHOTOCELL OPTIONS. FIXTURE TO BE SET 10FT OFF OF FLAGPOLE AND AIMED AT FLAG DURING NIGHT TIME.  LAMPS: L.E.D., 102W, MIN 11,500 DELIVERED LUMENS, 4000°K  | LITHONIA "DSXF2" SERIES<br>INVUE "VFS" SERIES<br>BEACON "RFL4" SERIES<br>GARDCO "DFC7" SERIES<br>LSI "TLFL" SERIES                            |
| ⊗                            | DRIVER: MULTIVOLT  UNIVERSAL MOUNTED EDGE-LIT EXIT LIGHT WITH INJECTION MOLDED HIGH-IMPACT ACRYLIC PANEL, EXTRUDED ALUMINUM HOUSING, AND LONG LIFE L.E.D. LIGHT SOURCE AND 120/277 VOLTAGE INPUT. RED LETTERING. PROVIDE BACK-UP BATTERY PACK W/ MAINTENANCE FREE NI-CAD BATTERIES IN ORDER TO PROVIDE MINIMUM 90 MINUTES OF ILLUMINATION.   | LITHONIA "EDG" SERIES<br>SURE-LITE<br>DUAL-LITE<br>EMERGI-LITE<br>CHLORIDE  |
| EMERGENCY<br>BATTERY<br>PACK | LAMP: L.E.D.  1. RECESSED EMERGENCY TROFFER FIXTURES SHALL BE PROVIDED WITH BATTERY PACK UNIT INSTALLED IN BALLAST COMPARTMENT AND SHALL PROVIDE MINIMUM 1400 LUMEN OUTPUT FROM FOR A MINIMUM OF 90 MINUTES AND SHALL BE PROVIDED INDICATOR LIGHT AND TEST SWITCH AT BALLAST COMPARTMENT.  | LIGHTGUARD  |
| OR                           | 2. SURFACE DOWNLIGHTS NOTED EMERGENCY SHALL BE EQUIPPED WITH SOLID STATE BATTERY PACK THAT SHALL PROVIDE 90 MINUTES OF EMERGENCY LIGHTING WHEN AC POWER FAILS AND PROVIDED WITH REMOTE MOUNTED INDICATOR LIGHT AND TEST SWITCH.  |   |

#### **GENERAL NOTES:**

- 1. DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT OR OUTLETS.
- 2. MOUNTING HEIGHTS AS INDICATED ON THE DRAWINGS SHALL BE FROM THE FINISHED FLOOR TO THE CENTER LINE OF THE
- 3. THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTERRELATIONSHIP AND REQUIRED COORDINATION BETWEEN
- 4. 112 SYMBOL INDICATING ROOM OR SPACE NUMBER.
- 5. ALL CONDUIT ROUTED FROM DISCONNECT TO EXTERIOR HVAC UNITS SHALL BE ROUTED UNDERGROUND. TURN UP ADJACENT TO UNIT AND MAKE TRANSITION TO SEALTITE TO SERVE UNIT.
- 6. ALL CONDUIT, OUTLET BOXES, AND LOW VOLTAGE CABLING SHALL BE APPROPRIATELY SUPPORTED THROUGHOUT THE PROJECT. SUPPORT OF THESE ITEMS BY CEILING GRID OR GRID SUPPORT WIRES IS NOT ACCEPTABLE.
- 7. ALL EXTERIOR DISCONNECTS SHALL BE RATED NEMA 3R. ALL DISCONNECTS SHALL BE HEAVY DUTY TYPE, FUSIBLE, WITH EQUIPMENT GROUND BAR.
- 8. COORDINATE EXACT LOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH MECHANICAL AND PLUMBING CONTRACTOR PRIOR TO ROUGH IN. ADJUST LOCATION OF DISCONNECTING MEANS AND BRANCH CIRCUITRY AS REQUIRED.
- 9. PRIOR TO PROJECT COMPLETION, ELECTRICAL CONTRACTOR SHALL OBTAIN FINAL SPACE NUMBERS FROM OWNER
- AND/OR ARCHITECT. TYPEWRITTEN PANELBOARD DIRECTORIES SHALL REFLECT SPACE DESIGNATION OF EACH CIRCUIT. NO EXCEPTIONS.
- 10. ALL CONDUIT ROUTED FROM SLAB UP TO PANELS AND EXPOSED CONDUIT ROUTED BELOW +48" A.F.F. SHALL BE GALVANIZED RIGID STEEL.
- 11. ALL LOW VOLTAGE CABLING ROUTED UNDERGROUND SHALL BE WEST PENN "AQUASEAL" OR EQUAL. ALL LOW VOLTAGE CABLING NOT IN CONDUIT SHALL BE PLENUM RATED.
- 12. ELECTRICAL CONTRACTOR SHALL WARRANTY ALL EQUIPMENT AND INSTALLATION OF SUCH FOR TWO (2) YEARS FROM DATE OF PROJECT ACCEPTANCE. WARRANTY APPLIES TO ENTIRE ELECTRICAL CONTRACTOR'S SCOPE.
- 13. SEE SPECIFICATIONS FOR COLORED TRACER REQUIRED ON ALL NEUTRAL CONDUCTORS FOR LIGHTING AND RECEPTACLE CIRCUITS.
- 14. REFER TO SPECIFICATIONS SECTION 260553 FOR LABELING OF ALL JUNCTION BOX COVERS AS WELL AS I.D. TAGS FOR DISCONNECTS AND PANELBOARDS. PROVIDE ENGRAVED I.D. TAGS PER DETAILS ON SHEET E4.0.
- 15. ALL THHN / THWN WIRE SHALL HAVE A FACTORY INSTALLED COLOR CODED OUTER JACKET. REFER TO SECTION 260519. CONTRACTOR IS TO NOTE THAT ALL FEEDER CONDUCTORS SHALL HAVE FULL COLOR CODED OUTER JACKET INTEGRAL TO THE CONDUCTOR INSULATION. USE OF COLOR PHASING TAPE IS NOT ALLOWED.
- 16. REFER TO SPECIFICATIONS FOR LABELING REQUIRED AT ALL JUNCTION BOX COVERS. LABEL IN ACCORDANCE AS NOTED.
- 17. ALL WIRING DEVICE COVERPLATES SHALL BE HAND LABELED ON BACK OF COVERPLATE. LABELING SHALL BE PERMANENT

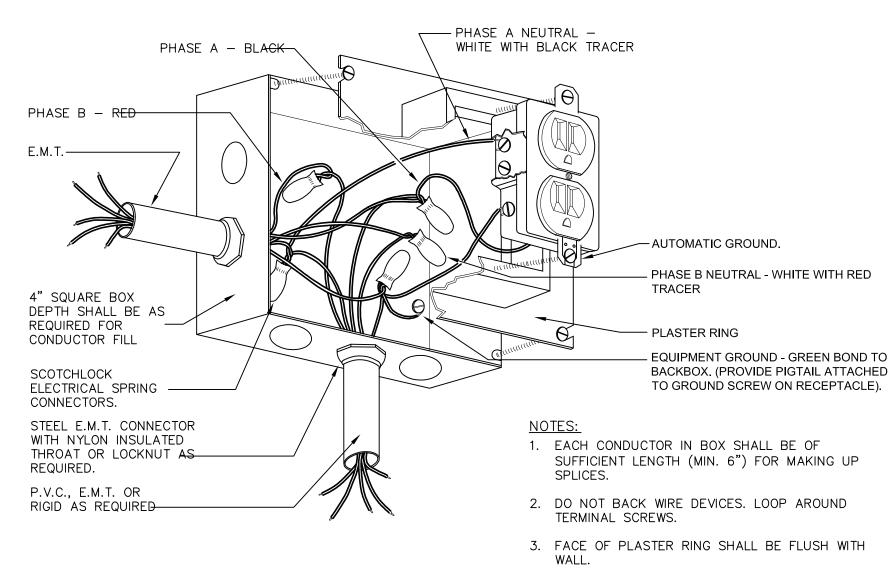
## **GENERAL DEMOLITION NOTES:**

MARKER, LEGIBLE, AND NOTE PANEL/CIRCUIT NUMBER SERVING DEVICE.

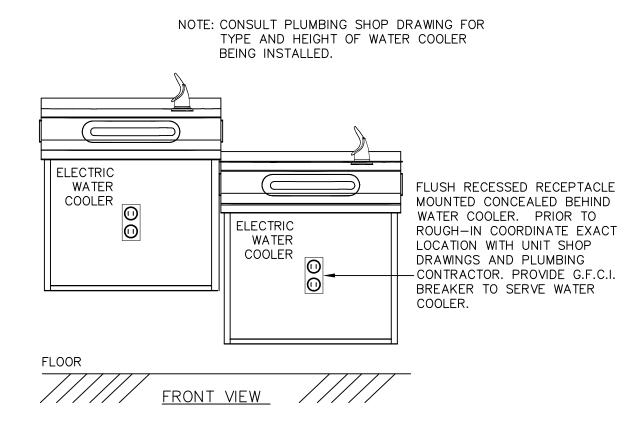
- 1. THE CONTRACTOR SHALL FIELD VERIFY EXACT ROUTINGS OF EXISTING RACEWAYS BEFORE STARTING ANY WORK AND NOTIFY THE ARCHITECT OF ANY KNOWN DISCREPANCIES. THE CONTRACTOR SHALL UTILIZE AS MUCH OF THE RACEWAYS AS POSSIBLE TO RECONNECT EXISTING CIRCUITS.
- 2. ALL EXISTING EQUIPMENT REMOVED FROM SERVICE AND NOT INTENDED FOR REUSE SHALL REMAIN THE PROPERTY OF OWNER AND SHALL BE STORED OR DISPOSED OF AS DIRECTED BY THE OWNER.
- 3. MAINTAIN SERVICE TO ALL EXISTING EQUIPMENT AND CIRCUITS THAT ARE NOT SCHEDULED FROM REMOVAL.
- 4. PROVIDE BLANK COVERS ON ALL JUNCTION BOXES AND OUTLET BOXES NOT INTENDED FOR REUSE.
- 5. EXISTING CEILING, WALLS AND FLOORS DISTURBED OR DISFIGURED BY THE ELECTRICAL RENOVATIONS SHALL BE PATCHED MENDED OR REPLACED BY TRADES ACTIVELY PARTICIPATING IN THIS TYPE OF WORK. RESPONSIBILITY FOR REPAIRS SHALL BE COORDINATED BETWEEN GENERAL CONTRACTOR AND ELECTRICAL SUBCONTRACTOR.

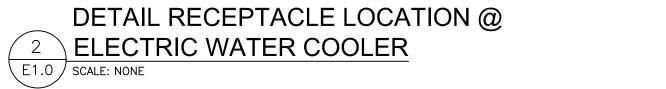
### THEATRICAL CONDUIT / BACKBOX NOTE:

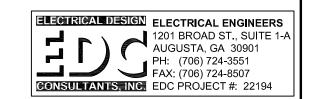
DIVISION 26 CONTRACTOR TO REVIEW ALL THEATRICAL DRAWINGS IN THIS SET LABELED "AVXXX". DIVISION 26 CONTRACTOR IS <u>RESPONSIBLE</u> FOR PROVIDING AND INSTALLING ALL CONDUIT AND BACKBOXES NOTED ON "AVXXX" DRAWINGS. WHERE DRAWINGS DESIGNATE "E.C." SHALL MEAN DIVISION 26 CONTRACTOR. ALL ELECTRICAL LINE VOLT POWER REQUIREMENTS TO SUPPORT THEATRICAL REQUIREMENTS IS REFLECTED ON SHEETS E3.0 AND E3.1.













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ELECTRICAL LEGEND, NOTES AND FIXTURE SCHEDULE



BID SET

SKH
DRAWN BY
SKH
CHECKED BY
MAP
APPROVED BY
4/13/2023
PROJECT DATE

21-036
PROJECT NUMBER

SHEET
NUMBER:

E1.0

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**ISSUED FOR:** 

DRAWN BY CHECKED BY APPROVED BY 4/13/2023 PROJECT DATE PROJECT NUMBER

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2013

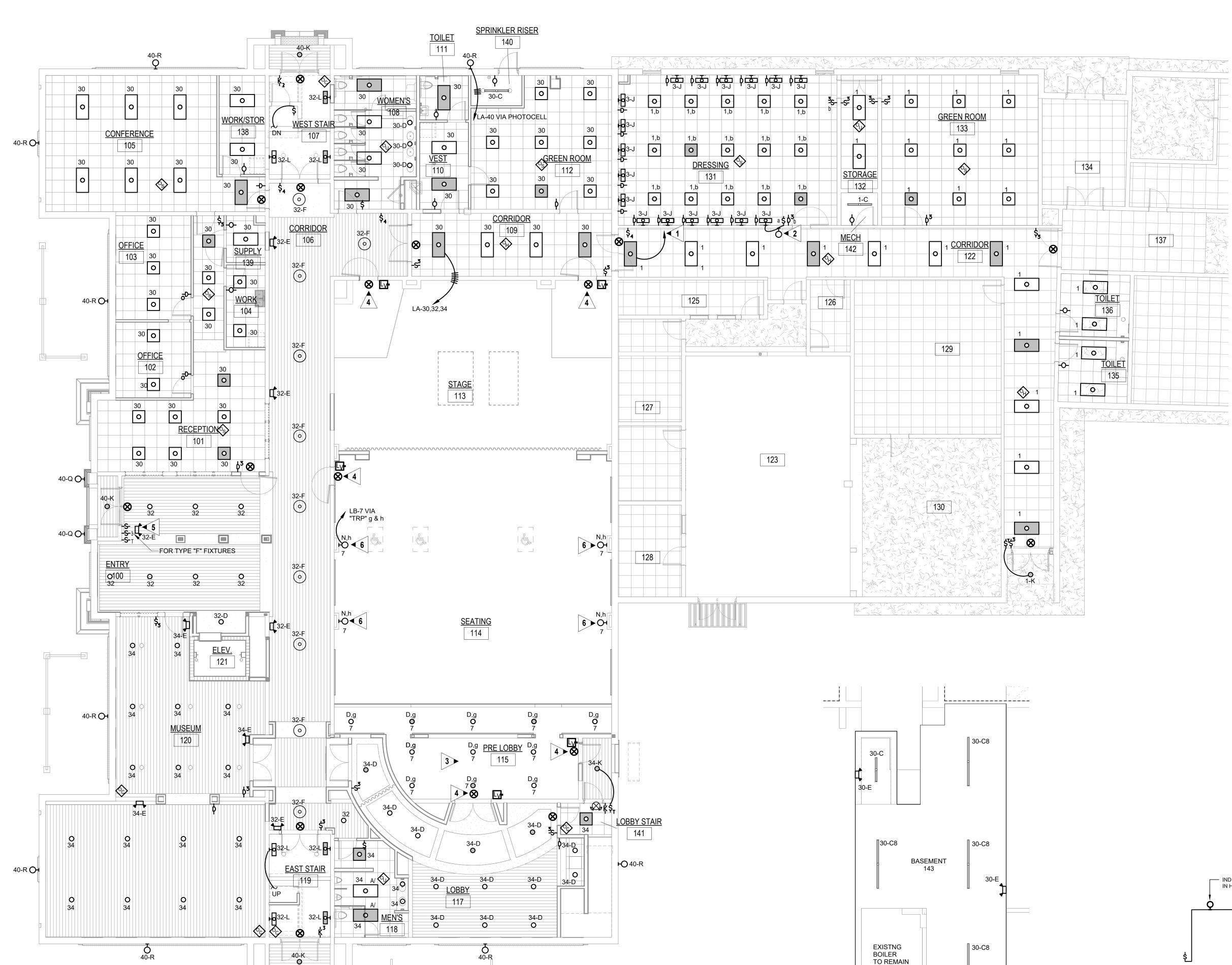
BLDG

2012

BLDG 2011

BLDG-2010\

2014



## **GENERAL NOTES:**

- 1. ALL 2' X 4' FIXTURES SHALL BE TYPE "A" UNLESS OTHERWISE NOTED.
- 2. ALL 2' X 2' FIXTURES SHALL BE TYPE "B" UNLESS OTHERWISE NOTED.
- 3. ALL " O " FIXTURES SHALL BE TYPE "G" UNLESS OTHERWISE NOTED.
- 4. LOWER CASE LETTERS AT SWITCHES AND LIGHT FIXTURES ON THIS SHEET ARE SHOWN TO CLARIFY THE FIXTURES BEING CONTROLLED BY THE ASSOCIATED SWITCHES.
- 5. OCCUPANCY SENSOR SHALL BE LOCATED TO PROVIDE MAXIMUM COVERAGE FOR ROOM. REFER TO DETAILS AND MANUFACTURER LAYOUT FOR CONNECTIONS.
- 6. PROVIDE UN-SWITCHED EMERGENCY "HOT" CONDUCTOR TO EACH EXIT SIGNS, ALL EMERGENCY BATTERY PACKS, AND TYPE "E" FIXTURES.
- 7. PROVIDE NEUTRAL CONDUCTOR TO ALL WALL MOUNTED OCCUPANCY SENSORS. IF SENSOR DOES NOT REQUIRE NEUTRAL, CAP NEUTRAL IN BOX.
- 8. CONTRACTOR SHALL PROVIDE CLASS 2,600 VOLT RATED, 0-10 VOLT CONTROL WIRING FOR ALL L.E.D. FIXTURES WHERE CONTROLLED BY LOW-VOLTAGE CONTROLLERS OR WALL BOX
- 9. FOR ALL CONDUIT INSTALLATIONS, CONTRACTOR SHALL PULL #18 AWG TFN SOLID COPPER CONTROL WIRING IN SAME CONDUIT AS LINE-VOLTAGE CONDUCTORS SHALL BE PURPLE AND GRAY. FIXTURE WHIPS SHALL BE PROVIDED WITH CONTROL WIRING INSTALLED IN WHIPS TO MATCH INSTALLATION. FIXTURE WHIPS SHALL NOT EXCEED 6'-0" IN LENGTH. NO
- 10. HOMERUN CIRCUITS ARE SHOWN AS NOTED. PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS/TRAVELERS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

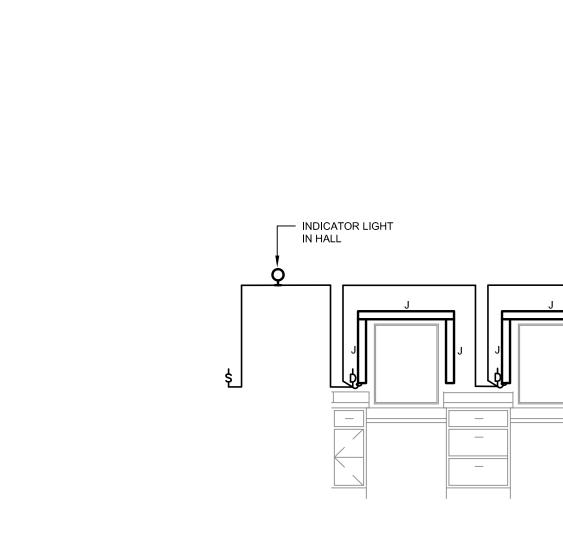
## **KEYED NOTES:**

EXCEPTIONS.

- 1 ROUTE TO EXISTING 120V PANEL CURRENTLY SERVING LIGHTING IN THIS AREA. EACH CIRCUIT INDICATE SHALL BE CONNECTED EXISTING SPARE 20A/1P BREAKER(S). NO OTHER EXISTING LOADS (NOT SHOWN) SHALL BE CONNECTED TO THESE CIRCUITS. CIRCUIT NUMBERING SHOWN ONLY INDICATES WHICH LIGHT FIXTURES ARE SERVED BY WHICH CIRCUIT. COORDINATE EXACT CIRCUIT WITH EXISTING FEILD CONDITIONS.
- PROVIDE SURACE MOUNTED PILOT LIGHT ON WALL AT 96" AFF FOR DRESSING ROOM 2 MIRRIOR LIGHTING NOTIFICATION. PROVIDE PERMANENT PLACARD TO READ AS "DRESSING ROOM LIGHTS IN USE". CONNECT LIGHT DOWNSTREAM OF TOGGLE SWITCH "a" AS SHOWN THEN ROUTE TO <u>ALL</u> DIMMERS CONTROLLING TYPE "J" DRESSING ROOM MIRROR LIGHTS. SEE DETAIL 3/E2.0.
- ALL TYPE "D" FIXTURES SHOWN IN PRE-LOBBY AND UNDER BALCONY SHALL BE SERVED BY "TRP" (THEATRICAL RELAY PANEL). ROUTE BOTH LINE VOLT AND 0/10V CONDUCTORS THROUGHOUT CIRCUIT (ZONE) TO RELAY PANEL. LINE VOLT TO CONNECT TO LOAD SIDE OF RELAY AND LINE SIDE OF RELAY TO BE FED FROM CIRCUIRT INDICATED AT FIXTURE. 0/10V TO CONNECT TO MATCH RELAY 0/10V OUTPUT ON RELAY PANEL LOW VOLTAGE CARD. SEE RELAY SCHEDULE ON SHEET E2.1 FOR LOWERCASE LETTERING / ZONE INFORMATION. WHERE EMERGENCY TYPE "D" FIXTURES ARE SHOWN, DERIVE CONSTANT HOT TO SERVE EMERGENCY BATTERY ON FIXTURE FROM DIRECTLY FROM BREAKER ON CIRCUIT SHOWN (DO NOT ROUTE VIA RELAY PANEL).
- 4 ALL EXIT SIGNS SHALL BE FED FROM PANEL "LB-7". DO NOT ROUTE THROUGH RELAY PANEL.
- 5 LOCATE TYPE "E FIXTURE ON WALL ABOVE WHERE SWITCHES ARE SHOWN.

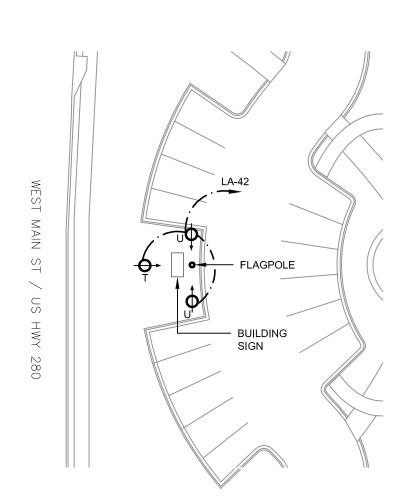
SEE PLAN.
CONTINUE TO NEXT LOCATION

ALL TYPE "N" FIXTURES SHALL BE SERVED BY "TRP" (THEATRICAL RELAY PANEL). ROUTE BOTH LINE VOLT AND 0/10V CONDUCTORS THROUGHOUT CIRCUIT (ZONE) TO RELAY PANEL. LINE VOLT TO CONNECT TO LOAD SIDE OF RELAY AND LINE SIDE OF RELAY TO BE FED FROM CIRCUIRT INDICATED AT FIXTURE. 0/10V TO CONNECT TO MATCH RELAY 0/10V OUTPUT ON RELAY PANEL LOW VOLTAGE CARD. SEE RELAY SCHEDULE ON SHEET E2.1 FOR LOWERCASE



TYPICAL DRESSING ROOM 3 MIRROR(S) - TYPE "J" LAYOUT E2.0 | SCALE: NONE

> NOTE: LAYOUT ABOVE IS SCHEMATIC IN NATURE ONLY, DIVISION 26 TO REVIEW ARCHITECTURAL INTERIOR ELEVATIONS FOR DRESSING ROOM SPACE FOR EXACT SIZED AND LAY OUT OF MIRROR(S) AND PROVIDE TYPE "J" IN TOTAL LENGTHS AS NEEDED. LOCATE DIMMER AT 6" ABOVE DRESSING COUNTER



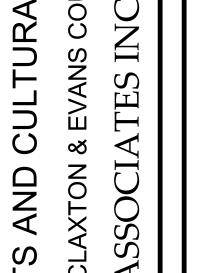
1 LIGHTING PLAN - FIRST FLOOR - BUILDING 2010 E2.0 SCALE: 1/8" = 1'-0"

**2** LIGHTING PLAN - BASEMENT E2.0 SCALE: 1/8" = 1'-0"

\ DETAIL - GROUND SIGN AND FLAGPOLE LIGHTING

NOTE: REFER TO ARCHITECTURAL SITE PLAN FOR FULL LOCATION OF SIGN AND FLAGPOLE IN RELATION TO EXISTING BUILDING.





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2012

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\BLDG 2010\

ELECTRICAL DESIGN ELECTRICAL ENGINEERS

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2014

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GYM

DRAWN BY CHECKED BY APPROVED BY 4/13/2023 PROJECT DATE 21-036 PROJECT NUMBER

**NUMBER:** 

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**GENERAL NOTES:** 

- 1. ALL 2' X 4' FIXTURES SHALL BE TYPE "A" UNLESS OTHERWISE NOTED.
- 2. ALL 2' X 2' FIXTURES SHALL BE TYPE "B" UNLESS OTHERWISE NOTED.
- 3. ALL "O" FIXTURES SHALL BE TYPE "G" UNLESS OTHERWISE NOTED.
- 4. OCCUPANCY SENSOR SHALL BE LOCATED TO PROVIDE MAXIMUM COVERAGE FOR ROOM. REFER TO DETAILS AND MANUFACTURER LAYOUT FOR CONNECTIONS.
- 5. PROVIDE UN-SWITCHED EMERGENCY "HOT" CONDUCTOR TO EACH EXIT SIGN, TYPE "E" FIXTURES AND BATTERY PACK FIXTURES.
- 6. CONTRACTOR SHALL PROVIDE CLASS 2,600 VOLT RATED, 0-10 VOLT CONTROL WIRING FOR ALL L.E.D. FIXTURES WHERE CONTROLLED BY LOW-VOLTAGE CONTROLLERS\..
- 7. HOMERUN CIRCUITS ARE SHOWN AS NOTED. PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS/TRAVELERS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

## **KEYED NOTES:**

- 1 ALL TYPE "D', "H", AND "M" FIXTURES SHOWN IN THEATER AREAS AND SECOND FLOOR LOBBY SHALL BE SERVED BY "TRP" (THEATRICAL RELAY PANEL). ROUTE BOTH LINE VOLT AND 0/10V CONDUCTORS THROUGHOUT CIRCUIT (ZONE) TO RELAY PANEL. LINE VOLT TO CONNECT TO LOAD SIDE OF RELAY AND LINE SIDE OF RELAY TO BE FED FROM CIRCUIRT INDICATED AT FIXTURE. 0/10V TO CONNECT TO MATCH RELAY 0/10V OUTPUT ON RELAY PANEL LOW VOLTAGE CARD. SEE RELAY SCHEDULE ON SHEET E2.1 FOR LOWERCASE LETTERING / ZONE INFORMATION. WHERE EMERGENCY TYPE "D" & "H" FIXTURES ARE SHOWN, DERIVE CONSTANT HOT TO SERVE EMERGENCY BATTERY ON FIXTURE FROM DIRECTLY FROM BREAKER ON CIRCUIT SHOWN (DO NOT ROUTE VIA RELAY PANEL).
- SEE E3.1 FOR CONTINUATION AND CONNECT TO RECEPTACLE ON CIRCUIT "LB-8" IN THIS AREA.

## **RELAY PANEL NOTES:**

213

212

LB-7 VIA

1 LIGHTING PLAN - SECOND FLOOR - BUILDING 2010

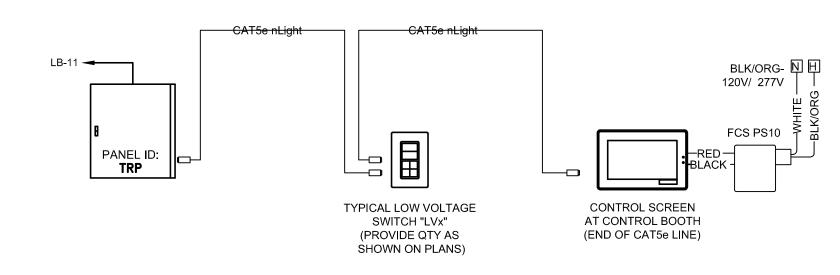
0

5-C8

209

E2.1 SCALE: 1/8" = 1'-0"

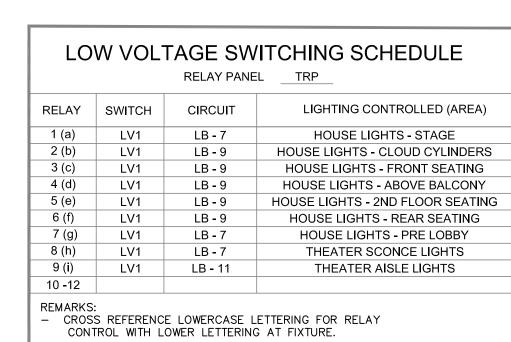
- 1. PROVIDE DIGITAL RELAY PANEL CAPABLE OF 0/10V DIMMER PER RELAY. DIVISION 26 TO PROVIDE INSTALL 0/10V FROM ALL RELAYS/CONTROL PORTS TO ALL LIGHTING ON RELAYS ONE(1) THROUGH NINE(9). PANEL TO BE PROVIDED WITH LOW VOLTAGE CONTACTS FOR FIRE ALARM INTÉRFACE. ACTIVATION OF FIRE ALARM SHALL ENERGIZE ALL RELAYS WITHIN PANEL. PANEL SHALL BE LITHONIA
- 2. DIVISION 26 IS RESPONSIBLE FOR REVIEWING LOW VOLTAGE SWITCHING SCHEDULE AND PROVIDING REQUIRED NUMBER OF PHASE (SWITCHLEG) CONDUCTORS FROM PANEL RELAYS IN ORDER TO ACHIEVE SWITCHING OPTIONS AS NOTED.
- 3. COORDINATE DEFAULT PROGRAMMING OF ZONES, SCHEDULES, SCENES, ETC. WITH OWNER'S REP DURING TRAINING SESSION AS NOTED IN SPECIFICATIONS.
- PROVIDE NUMBER OF BUTTONS FOR EACH SWITCH AS SHOWN IN LOW VOLTAGE SWITCHING LEGEND.





MANUFACTURER SHOP DRAWINGS FOR FINAL CABLING ROUTING BETWEEN DEVICES.

- "nARP INTENC16 12SPR" SERIES OR EQUAL.
- 4. PROVIDE CABLING PER SPECIFICATIONS FROM ALL WALL SWITCHES TO RELAY PANELS AS SHOWN.
- 5. DIVISION 26 TO SUBMIT LIGHTING CONTROLS SHOP DRAWING ON CURRENT FLOOR DETAIL LOCATION AND BoM FOR ALL DEVICES BEING PROVIDED. SHOP DRAWING SHOULD SITE SPECIFIC CABLING RISER AS DESIGNED BY MANUFACTURER OR AUTHORIZED MANUFACTURER CONTROLS SPECIALIST.



LOW VOLTAGE SWITCHES:

CONTROL. LITHONIA "NPODMA 4SB" OR EQUAL.

DIGITAL LOW VOLTAGE SWITCH WITH 4-BUTTONS FOR ON/OFF SCENE

DIGITAL LOW VOLTAGE TOUCHSCREEN LIGHTING CONTROLLER WITH 72

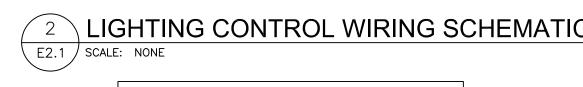
CHANNEL, 36 SCENE, BLUETOOTH CONNECTIVITY, AND BMS CAPABILITIES

FOR ALTERNATE CONTROL. DIVISION 26 TO PROVIDE 3-GANG FLUSH WALL

EXACT LOCATION WITH OWNER'S REP PRIOR TO ROUGH-IN. LOCATE POWER

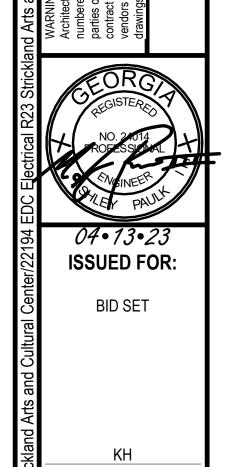
SUPPLY FOR CONTROLLER BELOW COUNTER. CONTROLLER TO BE LITHONIA

BACKBOX FOR CONTROLLER TO BE LOCATED AT BOOTH. COORDINATE



NOTE: RISER DEPICTED IS SCHEMATIC IN NATURE ONLY TO INDICATE TYPICAL SYSTEM COMPONENTS AND CABLING ROUTING. REFER TO DRAWINGS FOR EXACT NUMBER OF DEVICES. CONTRACTOR SHALL UTILIZE APPROVED





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KEYPLAN

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EDC PROJECT #: 22194

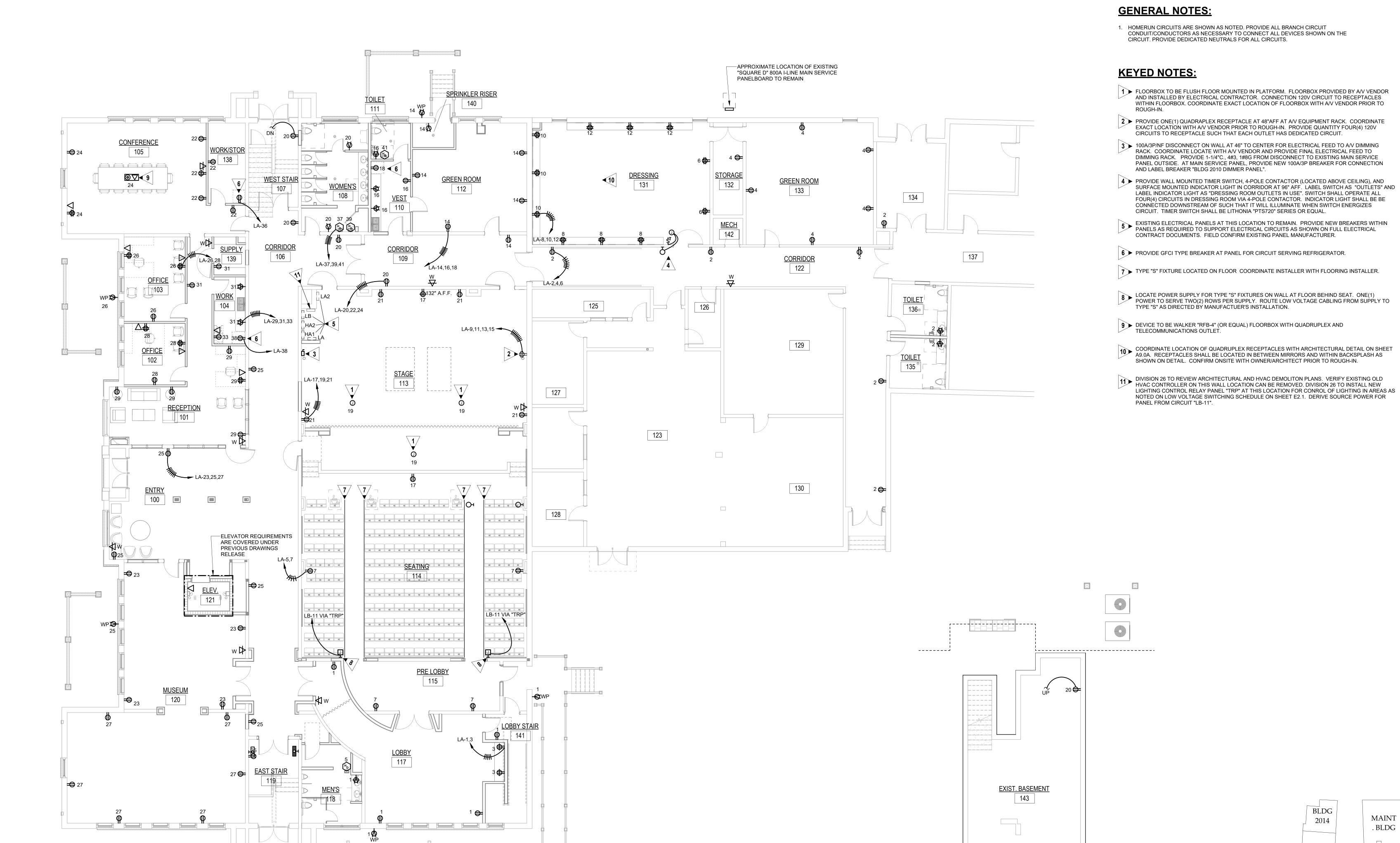
NUMBER:

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1 POWER PLAN - FIRST FLOOR - BUILDING 2010

E3.0 | SCALE: 1/8" = 1'-0"

3 POWER PLAN -BASEMENT

E3.0 SCALE: 1/8" = 1'-0"

1 POWER PLAN - SECOND FLOOR - BUILDING 2010 E3.1 SCALE: 1/8" = 1'-0"

## **GENERAL NOTES:**

 HOMERUN CIRCUITS ARE SHOWN AS NOTED. PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

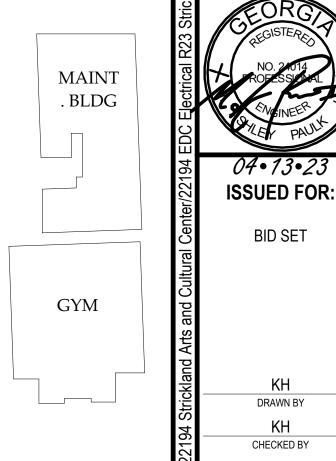
## **KEYED NOTES:**

- PROVIDE 120V FEED AT CEILING STRUCTURE FOR ELECTRICAL CONNECTION TO MOTORIZED SCREEN MOTOR. COORDINATE EXACT LOCATION WITH A/V VENDOR PRIOR TO ROUGH-IN.
- PROVIDE 208V/3PH FEED AT CEILING STRUCTURE FOR ELECTRICAL CONNECTION TO FUTURE MOTORIZED HOIST. LABEL BOX AT CEILING REFLECTING FUTRUE SERVICE. PROVIDE NEW 15A/3P BREAKER AT PANEL LOCATION INIDICATED. COORDINATE EXACT LOCATION WITH A/V VENDOR PRIOR TO ROUGH-IN.
- TYPE "S" FIXTURE LOCATED ON FLAT (HORIZONTAL) PORTION ONLY OF STAIR RISER AT THIS LOCATION. TYPICAL FOR ALL LOCATIONS SHOWN. COORDINATE INSTALLER WITH FLOORING INSTALLER. FIXTURE SHOWN AS CONTINUOUS ROW BUT WILL NEED TO BE PROVIDED IN INDIVIDUAL SECTIONS TO MATCH LENGTH OF STAIR TREAD. MANUFACTURER SHALL PROVIDE ALL "JUMPERS" BETWEEN SECTION AS REQUIRED TO CONNECT EACH SECTION AS SHOWN.
- LOCATE POWER SUPPLY FOR TYPE "S" FIXTURES SURFACE MOUNTED ON WALL UNDER COUNTER. PROVIDE LOW VOLT POWER CONDUCTORS (SIZE AS NOTED BY MNAUFACTURER) FROM BOX TO EACH OF THE FOUR(4) RUNS OF TYPE "S" SECTIONS AS SHOWN. ROUTE LINE VOLTAGE HOMERUN TO RELAY PANEL "TRP" AS INDICATED.
- PROVIDE 1/2"C., WITH ONE(1) #6 GROUNG CONDUCTOR FROM NEW TELECOMMUNICATIONS RACK TO GROUND BAR OF PANEL "LB".
- 120V POWER CONNECTION TO MOTORIZED SHADES. COORDINATE EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND SHADE VENDOR. DIVISION 26 IS RESPONSIBLE FOR ALL ELECTRICAL TERMINATION REQUIREMENTS AT SHADE. DIVISION 26 REPONSIBLE FOR ROUTING CAT6 CABLING BETWEEN ALL SHADE MOTOR RJ45 SPLITTER DEVICE AND HOMERUN ONE(1) CAT6 CABLE FROM FROM LAST SPLITTER TO DATA CLOSET. COORDINATE SHADE MOTOR AND RJ45 SPLITTER LOCATION WITH SHADE VENDOR PRIOR TO ROUGHIN.
- SHADE MOTOR CONTROL GATEWAY DEVICE TO BE LOCATED ON WALL IN ROOM OR AT DATA RACK. COORDINATE LOCATION WITH SHADE VENDOR AND OWNER. PROVIDE 120V CONNECTION FROM NEAREST RECEPTACLE CIRCUIT TO DEVICE. PROVIDE 1"C. FROM HERE TO STAGE DIMMING RACK FOR LOW VOLTAGE CONTROL CONNECTION FROM DIMMING RACK TO GATEWAY DEVICE IN ORDER FOR SHADE OPERATION CONTROL VIA PRESENTATION SYSTEM/ COORDINATE WITH PRESENTATION SYSTEM PROVIDER.



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2010



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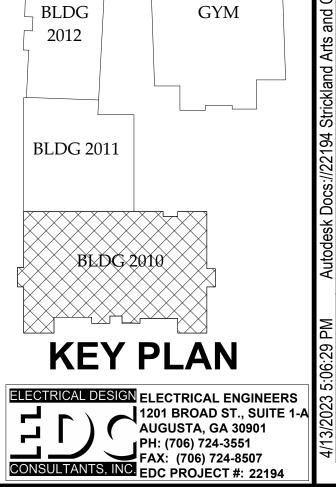
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PROJECT NUMBER

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EDC PROJECT #: 22194

105 101 SEATING 114

MECHANICAL POWER PLAN - FIRST FLOOR - BUILDING 2010 E4.0 SCALE: 1/16" = 1'-0"

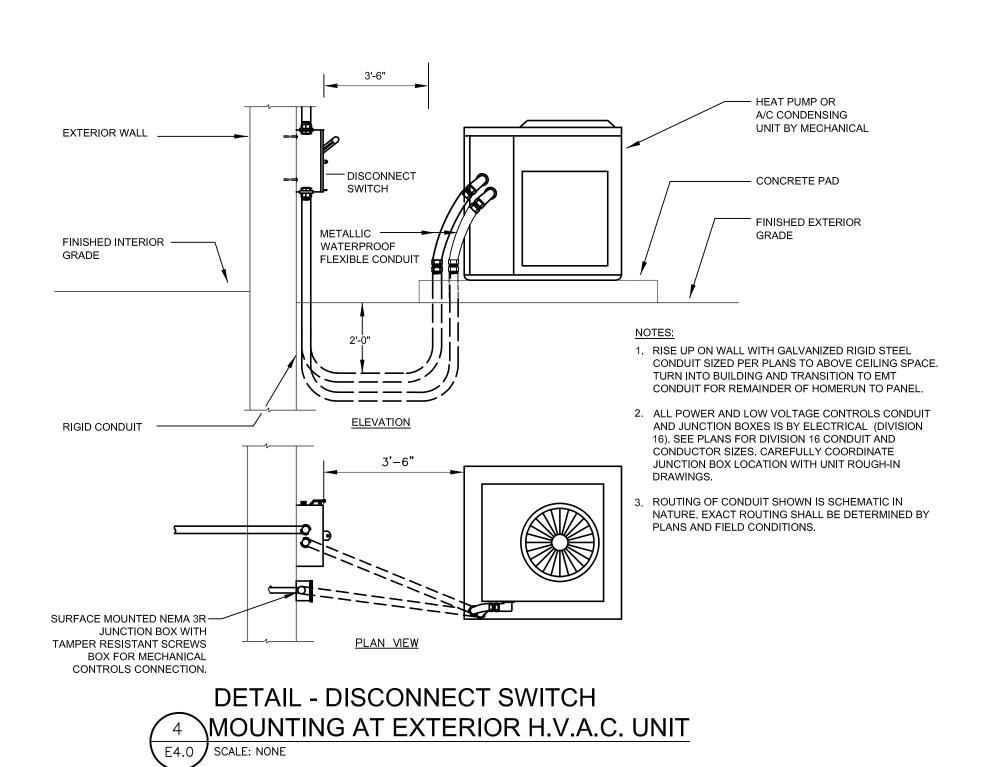


MECHANICAL POWER PLAN SECOND FLOOR - BUILDING 2010 E4.0 SCALE: 1/16" = 1'-0"

| ITEM    | CHARACTERISTICS |    |             |                           |                |  | DISCONNECT SWITCH |    |                     |
|---------|-----------------|----|-------------|---------------------------|----------------|--|-------------------|----|---------------------|
| NO.     | VOLTS           | PH | KW          | CIRCUIT                   | BREAKER        | FEEDER                                 | SIZE              | Р  | FEATURES            |
| DOAS-1  | 208             | 1  | 2.0         | HA1-9,11                  | 15/2P          | 3#12                                   | 30                | 2  |                     |
| F-x     | 120             | 1  | 0.1         | KEYNOTE #1                | -              | 3#12                                   | -                 | -  | -                   |
| IDU-1x  | 208             | 1  | 0.2         | KEYNOTE #2                | 15/2P          | 3#12                                   | 20                | 2  | MOTOR RATED SWTICH  |
| IDU-1H  | 208             | 1  | 1.1         | HA1-5,7                   | 15/2P          | 3#12                                   | 20                | 2  | MOTOR RATED SWTICH  |
| IDU-2x  | 208             | 1  | 0.3         | KEYNOTE #3                | 15/2P          | 3#12                                   | 20                | 2  | MOTOR RATED SWITCH  |
| IDU-3x  | 208             | 1  | 0.3         | KEYNOTE #4                | 15/2P          | 3#12                                   | 20                | 2  | MOTOR RATED SWITCH  |
| IDU-3A  | 208             | 1  | 1.5         | HA2-5,7                   | 15/2P          | 3#12                                   | 20                | 2  | MOTOR RATED SWITCH  |
| IDU-3A  | 208             | 1  | 0.2         | KEYNOTE #5                | 15/2P          | 3#12                                   | 20                | 2  | MOTOR RATED SWTICH  |
|         |                 |    |             |                           |                |  |                   | +- |                     |
| IHP-1   | 208             | 3  | 11.5        | HA1-18,20,22              | 35/3P          | 1/2"C., 4#10                           | 60                | 3  |                     |
| IHP-2   | 208             | 3  | 17.0        | HA1-17,19,21              | 50/3P          | 3/4"C., 3#8, 1#10                      | 60                | 3  |                     |
| IHP-3   | 208             | 3  | 17.0        | HA1-24,26,28              | 50/3P          | 3/4"C., 3#8, 1#10                      | 60                | 3  |                     |
| IHP-4   | 208             | 3  | 11.5        | HA1-23,25,27              | 35/3P          | 1/2"C., 4#10                           | 60                | 3  |                     |
| MDC 4   | 200             | 1  | 0.0         | KEVNOTE #2                | 45/0D          | 2#42                                   | 20                | -  | MOTOR BATER CWITCH  |
| MDC-1   | 208             | 1  | 0.2         | KEYNOTE #2                | 15/2P          | 3#12                                   | 20                | 2  | MOTOR RATED SWITCH  |
| MDC-2   | 208             | 1  | 0.2         | KEYNOTE #3                | 15/2P          | 3#12                                   | 20                | 2  | MOTOR RATED SWITCH  |
| MDC-3   | 208             | 1  | 0.2         | KEYNOTE #4                | 15/2P          | 3#12                                   | 20                | 2  | MOTOR RATED SWTICH  |
| MDC-4   | 208             | 1  | 0.2         | KEYNOTE #5                | 15/2P          | 3#12                                   | 20                | 2  | MOTOR RATED SWTICH  |
| MDC-5   | 208             | 1  | 0.1         | HA1-10,12                 | 15/2P          | 3#12                                   | 20                | 2  | MOTOR RATED SWTICH  |
| ODU-1   | 208             | 3  | 29.0        | HA2-2,4,6                 | 100/3P         | 1-1/4"C., 3#3, 1#8                     | 100               | 3  | NEMA-3R             |
| ODU-2   | 208             | 3  | 25.0        | HA2-8,10,12               | 80/3P          | 1"C., 3#4, 1#8                         | 100               | 3  | NEMA-3R             |
| ODU-3   | 208             | 3  | 29.0        | HA2-1,3,5                 | 100/3P         | 1-1/4"C., 3#3, 1#8                     | 100               | 3  | NEMA-3R             |
| ODU-4   | 208             | 3  | 16.5        | HA1-30,32,34              | 50/3P          | 3/4"C., 3#8, 1#10                      | 60                | 3  | NEMA-3R             |
| ODU-5   | 208             | 3  | 25.0        | HA2-7,9,11                | 80/3P          | 1"C., 3#4, 1#8                         | 100               | 3  | NEMA-3R             |
| OUD 4   | 000             |    | 7.0         | 1104 42 45                | 50/0D          | 2/4"0 240 4440                         | 00                |    | NEMA OD             |
| OHP-1   | 208             | 1  | 7.0         | HA1-13,15                 | 50/3P          | 3/4"C., 3#8, 1#10                      | 60                | 3  | NEMA-3R             |
| OHP-2   | 208             | 3  | 12.6        | HA1-29,31,33              | 50/3P          | 3/4"C., 3#8, 1#10                      | 60                | 3  | NEMA-3R             |
| OHP-3   | 208             | 3  | 12.6<br>5.0 | HA1-35,37,39<br>HA1-14,16 | 50/3P<br>50/3P | 3/4"C., 3#8, 1#10<br>3/4"C., 3#8, 1#10 | 60<br>60          | 3  | NEMA-3R<br>NEMA-3R  |
| 0111 -4 | 200             | '  | 3.0         | 10(114,10                 | 30/31          | 3/4 0., 0#0, 1#10                      | 00                |    | INCIVIA-OIX         |
| P-10    | 120             | 1  | 2.4         | LA-32                     | 25/1P          | 3#12                                   | 30                | 2  | MOTOR RATED SWTICH  |
| P-10    | 120             | 1  | 2.4         | LA-34                     | 25/1P          | 3#12                                   | 30                | 2  | MOTOR RATED SWTICH  |
| P-13    | 208             | 1  | 4.5         | HA1-2,4                   | 30/2P          | 3#10                                   | 30                | 2  |                     |
| P-13    | 208             | 1  | 4.5         | HA1-10,12                 | 30/2P          | 3#10                                   | 30                | 2  |                     |
| рц 1    | 208             | 1  | 0.5         | HA1-10,12                 | 15/2P          | 3#12                                   | 20                | 2  | MOTOR PATED SWITIOU |
| RH-1    | 208             | 1  | 0.0         | 11/41-10,12               | 15/28          | 3#12                                   | 20                | 2  | MOTOR RATED SWTICH  |
| \\\     | 120             | 1  | 1.5         | 1 \ 20                    | 20/1D          | 2#12                                   | 20                | 12 | MOTOR RATER SWITICH |

WH-1 | 120 | 1 | 1.5 | LA-30 | 20/1P | 3#12 | 20 | 2 | MOTOR RATED SWTICH

MECHANICAL CONNECTION SCHEDULE



**GENERAL NOTES:** 

- 1. REFER TO MECHANICAL CONNECTION SCHEDULES FOR CIRCUIT DESIGNATIONS; WIRE AND CONDUIT SIZE; DISCONNECT MEANS; AND OTHER ELECTRICAL REQUIREMENTS FOR MECHANICAL, PLUMBING AND FIRE PROTECTION EQUIPMENT.
- 2. COORDINATE EXACT LOCATIONS OF ALL EQUIPMENT WITH MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS.
- 3. PROVIDE 120V CONTROL POWER TO ALL HVAC CONTROL PANELS. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION AND POWER PLANS FOR CIRCUITING.
- 4. WALL JUNCTION BOXES AND CONDUIT FOR THERMOSTATS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. VERIFY EXACT LOCATION AND QUANTITY WITH MECHANICAL PRIOR TO ROUGH-
- 5. SEE DETAIL SHEETS FOR APPLICABLE HVAC ROUGH-IN DETAILS.

EXIST. BASEMENT

E4.0 SCALE: 1/16" = 1'-0"

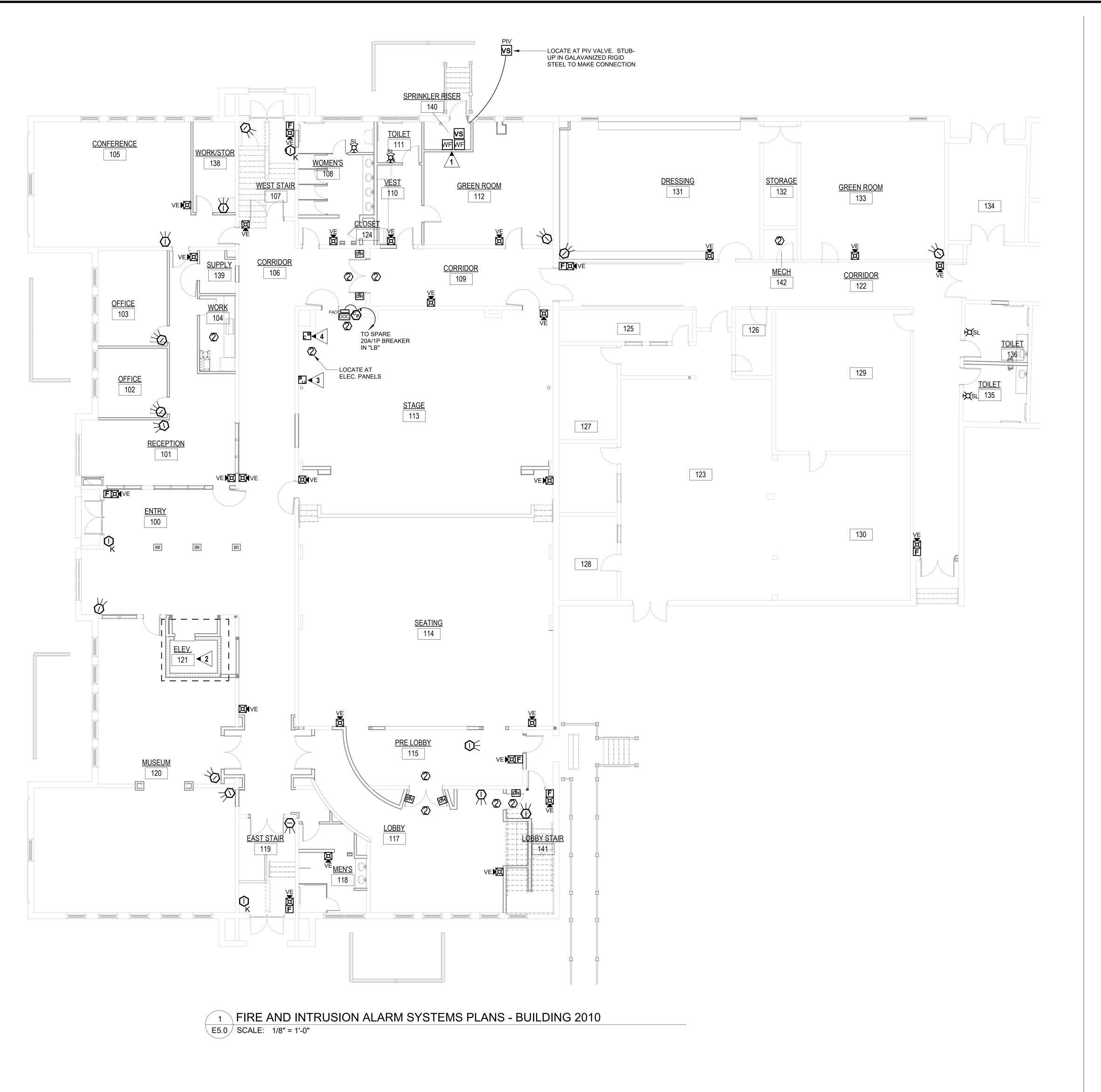
ABANDONED BOILER
TO REMAIN

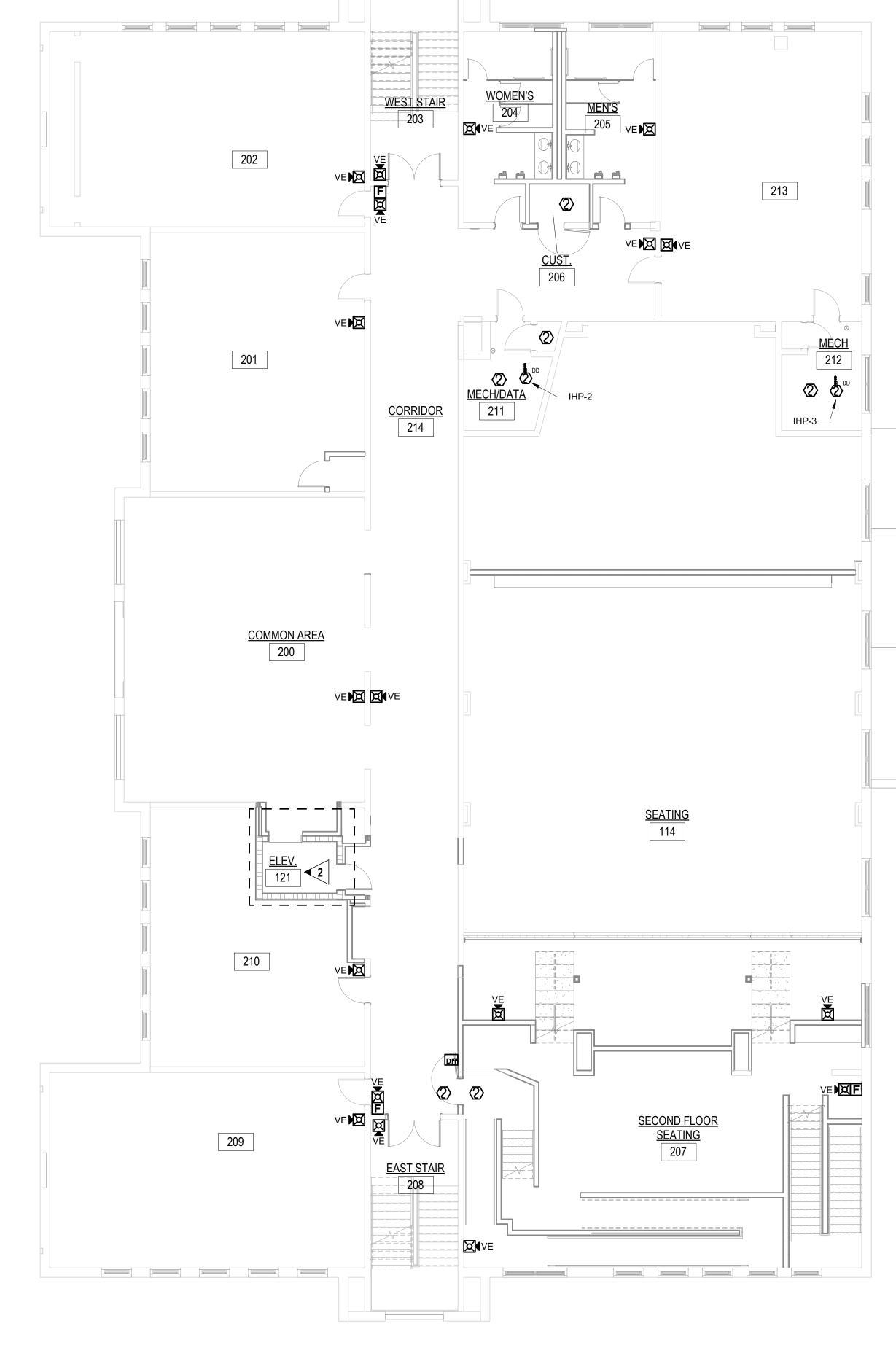
**3** MECHANICAL POWER PLAN - BASEMENT

- 6. LOCATE DISCONNECT AT UNIT AS REQUIRED TO MAINTAIN PROPER CLEARANCES PER NEC.
- 7. ALL EXTERIOR DISCONNECTS SHALL BE RATED NEMA 3R RATED.
- 8. ALL EXTERIOR FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF. 9. COORDINATE BREAKER SIZE TO MATCH NAMEPLATE RATING ON UNITS.

## **KEYED NOTES:**

- 1 ALL FANS (F-x) SHALL BE ELECTRICALLY FED FROM LIGHT SWITCH ROOM/SPACE WHERE FAN IS LOCATED.
- 2 ALL "IDU-1x" UNITS (UNLESS OTHERWISE NOTED IN SCHEDULE) AND "MDC-1" UNIT SHALL BE SERVED FROM CIRCUIT "HA1-1,3". PROVIDE 20A/2P MOTOR RATED SWITCH ABOVE CEILING OR AT STRUCTURE NEAR UNIT IN ORDER TO ROUTE CONDUCTORS PRIOR TO UNIT FOR DISCONNECTION MEANS.
- "IDU-2x" UNITS (UNLESS OTHERWISE NOTED IN SCHEDULE) AND "MDC-2" UNIT SHALL BE SERVED FROM CIRCUIT "HA1-9,11". PROVIDE 20A/2P MOTOR RATED SWITCH ABOVE CEILING OR AT STRUCTURE NEAR UNIT IN ORDER TO ROUTE CONDUCTORS PRIOR TO UNIT FOR DISCONNECTION MEANS.
- 4 ALL "IDU-3x" UNITS (UNLESS OTHERWISE NOTED IN SCHEDULE) AND "MDC-3" UNIT SHALL BE SERVED FROM CIRCUIT "HA2-5,7". PROVIDE 20A/2P MOTOR RATED SWITCH ABOVE CEILING OR AT STRUCTURE NEAR UNIT IN ORDER TO ROUTE CONDUCTORS PRIOR TO UNIT FOR DISCONNECTION MEANS.
- 5 ALL "IDU-4x" UNITS (UNLESS OTHERWISE NOTED IN SCHEDULE) AND "MDC-4" UNIT SHALL BE SERVED FROM CIRCUIT "HA2-9,11". PROVIDE 20A/2P MOTOR RATED SWITCH ABOVE CEILING OR AT STRUCTURE NEAR UNIT IN ORDER TO ROUTE CONDUCTORS PRIOR TO UNIT FOR DISCONNECTION MEANS.





FIRE AND INTRUSION ALARM SYSTEMS PLAN -SECOND FLOOR - BUILDING 2010 E5.0 SCALE: 1/8" = 1'-0"

## **KEYED NOTES:**

- 1 VERIFY EXACT QUANTITY OF FLOW AND TAMPER SWITCHES WITH FIRE SPRINKLER CONTRACTOR PRIOR TO ROUGH-IN.
- 2 ELECTRICAL WORK FOR ELEVATOR SHOWN UNDER PREVIOUS DOCUMENT RELEASE.
- 3 FIRE ALARM DRY CONTACT INTERFACE MODULE AT AUDIO/VISUAL SOUND RACK. COORDINATE WITH A/V INSTALLER SUCH THAT ACTIVATION OF FIRE ALARM WILL SHUNT SOUND OUTPUT FROM AUDIO AMPLIFIER RACK.
- 4 FIRE ALARM DRY CONTACT INTERFACE MODULE AT LIGHTING CONTROL PANEL "TRP". COORDINATE WITH LIGHTING CONTROL PANEL'S MANAUFACTUER'S FACTORY START-UP TECHNICIAN SUCH THAT ACTIVATION OF FIRE ALARM SYSTEM WILL CAUSE ALL RELAYS TO CLOSE AND ALL 0/10V OUTPUTS TO BE AT 100%.

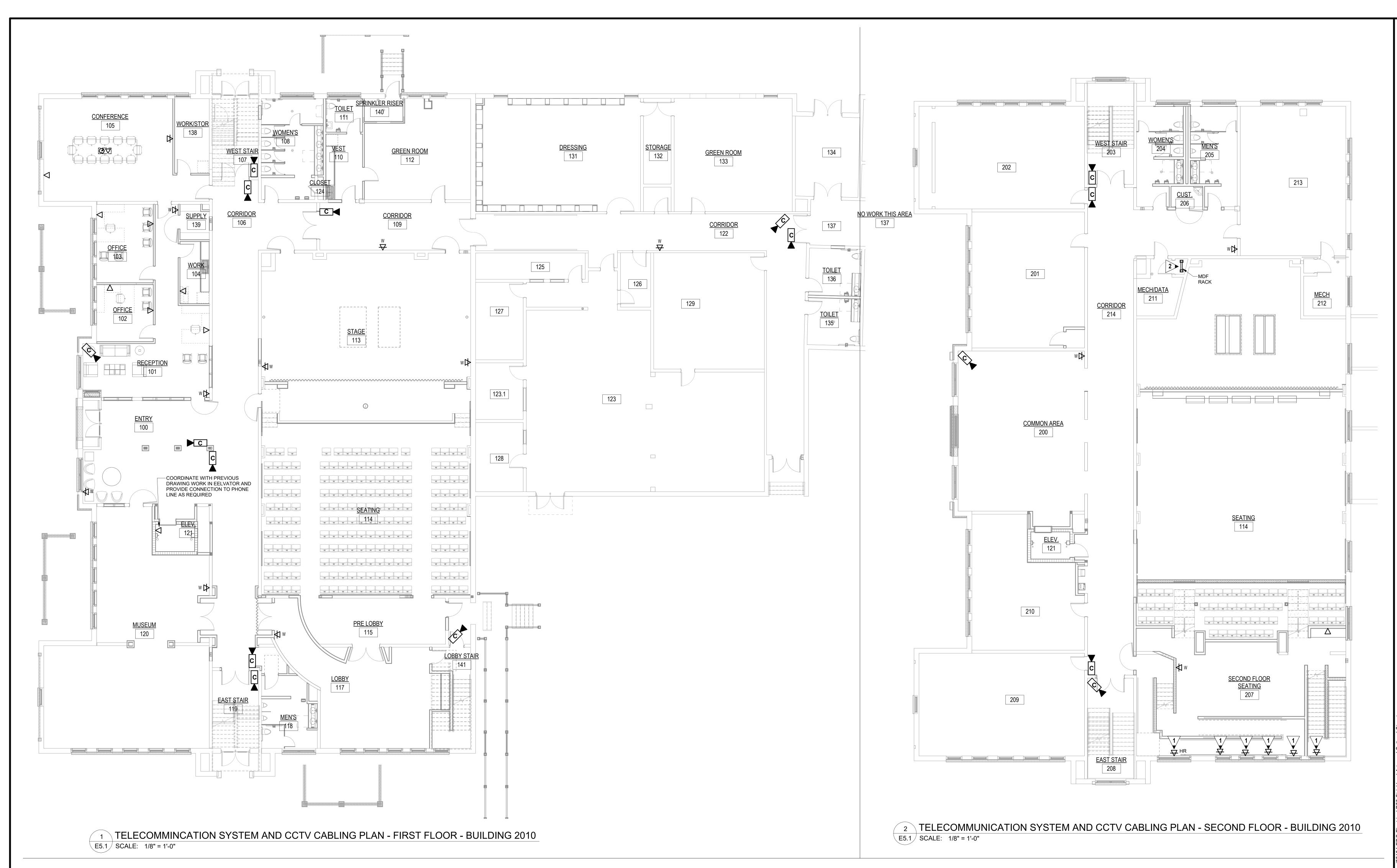


STRICKLAND,

04 • 13 • 23 ISSUED FOR:

DRAWN BY CHECKED BY APPROVED BY 4/13/2023 PROJECT DATE

PROJECT NUMBER **NUMBER:** 



## **DATA/VOICE CABLING LEGEND**

- WALL MOUNTED (UNLESS NOTED OTHERWISE ON DRAWINGS) DATA OUTLET +18" AFF. TWO(2) CATEGORY 6e CABLE DROPS, TWO(2) CATEGORY 6e JACKS. NUMBER DESIGNATES QUANTITY OF DROPS OTHER THAN TWO.
- WALL MOUNTED (UNLESS NOTED OTHERWISE ON DRAWINGS) CATEGORY 6e DATA OUTLET AT +46" AFF. ALL OUTLET LOCATIONS SHALL HAVE TWO(2) CATEGORY 6e CARLE DROPS AND TWO(2) CATEGORY 6e JACKS. NUMBER WHERE SHOWN DESIGNATES QUANTITY OF DROPS OTHER THAN TWO.
- SURFACE MOUNTED BOX BY ELECTRICAL LOCATED AT STRUCTURE ABOVE ACCESSIBLE CEILING. WHERE SHOWN AT WOOD OR GYPBOARD CEILING LOCATIONS, OUTLET BOX SHALL BE FLUSH CEILING MOUNTED. COORDINATE ALL LOCATIONS WITH OWNER'S I.T. DEPARTMENT PRIOR TO ROUGH-IN. ALL LOCATIONS SHALL HAVE ONE(1) CATEGORY 6e CABLE DROPS AND TWO(2) CATEGORY 6e JACKS.
- SURFACE MOUNTED BOX BY ELECTRICAL LOCATED AT STRUCTURE ABOVE ACCESSIBLE CEILING TO SERVE CCTV SECURITY CAMERAS WITH ONE(1) CATEGORY 6e CABLE DROPS. WHERE SHOWN AT WOOD OR GYPBOARD CEILING LOCATIONS, OUTLET BOX SHALL BE FLUSH CEILING MOUNTED. COORDINATE ALL LOCATIONS WITH OWNER'S CAMERA VENDOR PRIOR TO ROUGH-IN.

## **GENERAL NOTES: (DATA/VOICE CABLING)**

FIBER, TIE CABLES, STATION WIRES, AND PATCH CORDS.

- 1. ADDITIONAL WALL SLEEVES AND WALL PENETRATIONS, WILL BE REQUIRED FOR NETWORK CABLING, PROVIDE AS NECESSARY AND FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS.
- 2. ALL CABLING SHALL BE BUNDLED AND SUPPORTED BY STRUCTURE ABOVE OR BY WALL AT EVERY 4-5 FEET. SUPPORT OF CABLING BY CEILING GRID OR GRID SUPPORT WIRES IS <u>NOT</u> ACCEPTABLE. PROVIDE D-RINGS, J-HOOKS OR OTHER SUPPORT MEANS AS PER EIA/TIA STANDARDS.
- 3. ALL CABLING SHALL BE PLENUM RATED. OUTER JACKET ON CAT. 6e TELECOMMUNICATION CABLING SHALL BE BLUE. CAT 6e CABLING FOR CCTV CAMERAS SHALL BE YELLOW.
- 4. ALL DATA OUTLET JACKS SHALL BE PROVIDED WITH THE FOLLOWING LABELING NOMENCLATURE:

SEQUENTIAL NUMBER LEFT TO RIGHT BEGINNING WITH TOP PATCH PANEL TO LAST PATCH PANEL IN RACK. IE. 1-223, 1-224 \_\_ "M" FOR MDF OR DESIGNATION FROM WHICH JACK IS SERVED.

ALL PATCH PANELS AND 110 BLOCKS SHALL BE CORRESPONDINGLY LABELED.

- 5. PROVIDE METAL D-RING OR RING RUNS AS NECESSARY TO PROPERLY LACE AND SUPPORT ALL VOICE CABLING AT TELEPHONE BACKBOARDS.
- 6. ALL DEVICE COLORS SHALL BE GREY. FACEPLATE SHALL BE STAINLESS STEEL FACEPLATE WITH LABEL FIELD AND KEYSTONE OPENING (QUANTITY OF KEYSTONE OPENINGS TO MATCH NUMBER OF DROPS). FACEPLATE SHALL BE HUBBELL SSFL OR EQUAL).

7. TY-WRAPS SHALL NOT BE CINCHED DOWN TIGHT ENOUGH TO DEFORM CABLES. MAINTAIN MINIMUM BEND RADIUS ON

8. PROVIDE VELCRO CABLE WRAPS AT RACKS TO PROPERLY LACE AND TRAIN PATCH CORDS AT RACKS IN AN ORDERLY

- 9. ALL DATA/VOICE AND WIRELESS ACCESS CABLING SHALL BE CAT. 6e AS NOTED IN SPECIFICATIONS. (NO EXCEPTIONS). INCLUDE IN BASE BID SIX(6) ADDITIONAL TELECOMMUNICATIONS DROPS TO BE LOCATED BY OWNER/ENGINEER. INCLUDE
- 10. ALL DATA/VOICE CABLING SHALL BE LANDED ON STATION CABLE PATCH PANELS IN DATA RACK. SEE DETAIL PER THIS SHEET. ELECTRICAL RESPONSIBLE FOR ALL PATCHING AND TESTING OF CABLES.
- 11. ALL DATA DROPS LOCATED IN AREAS WITH EXPOSED STRUCTURE SHALL BE ROUTED IN 3/4"C.

ALL LABOR AND TESTING FOR A COMPLETE INSTALLATION.

12. DURING SUBMITTAL PHASE, DATA/VOICE CABLING CONTRACTOR SHALL SUBMIT A CABLE ROUTING PLAN SHOWING PROPOSED CABLE ROUTING <u>AND</u> NOTE CABLE DISTANCES (DISTANCE TO INCLUDE SERVICE LOOPS). CABLING DISTANCES SHALL <u>NOT</u> EXCEED 300 FEET. ANY DISCREPANCES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION.

## **GENERAL NOTES:**

1. CONTRACTOR TO REVIEW ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL LOCATIONS OF WOOD OR GYPBOARD CEILINGS. ALL CONDUITS FROM DEVICES SHOWN IN THESE AREAS SHALL BE PROVIDED WITH PULLSTRINGS AND ROUTED TO STUB OUT INTO NEAREST ACCESSIBLE CEILING SPACE. ELECTRICAL CONTRACTOR ALSO RESPONSIBLE FOR PROVIDE CONDUIT SLEEVES (SIZED AS REQUIRED TO SUPPORT ALL CABLING) AS NEEDED TO CROSS THESE CEILINGS IN ORDER TO ROUTE ALL LOW VOLTAGE CABLING UP TO

## **KEYED NOTES:**

- 1 CABLE DROP FOR CONNECTION TO WINDOW SHADE MOTOR RJ45 SPLITTER DEVICE. COORDINATE LOCATION WITH WINDOW SHADE VENDOR. DROP MARKED AS "HR" SHALL HAVE ONE(1) CAT6e CABLE HOMERUN FROM THAT LOCATION TO MDF RACK. FROM "HR" LOCATION, CONTRACTOR DAISY-CHAIN CAT6e CABLE FROM THIS LOCATION TO ALL OTHER WINDOW LOCATIONS NOTED. REMAINING LOCATIONS WILL NOT BE ROUTED TO MDF RACK.
- WINDOW SHADE MOTOR GATEWAY CONTROL DEVICE TO BE LOCATED IN DATA ROOM. ROUTE ONE(1) CAT6e CABLE AND ONE(1) RS-232 / 2-CONDUCTOR 18AWG + SHEILD CABLE FROM THIS LOCATION DOWN TO STAGE DIMMING RACK LOCATION FOR INTEGRATION OF OPERATIONAL CONTROL BETWEEN PRESENTATION SYSTEMS AND WINDOW SHADE MOTORS. SEE E3.0 KEYNOTE #3 FOR LOCATION OF STAGE DIMMING RACK AND UTILIZE CONDUIT NOTED IN KEYNOTE #7 ON E3.1.



STRICKL

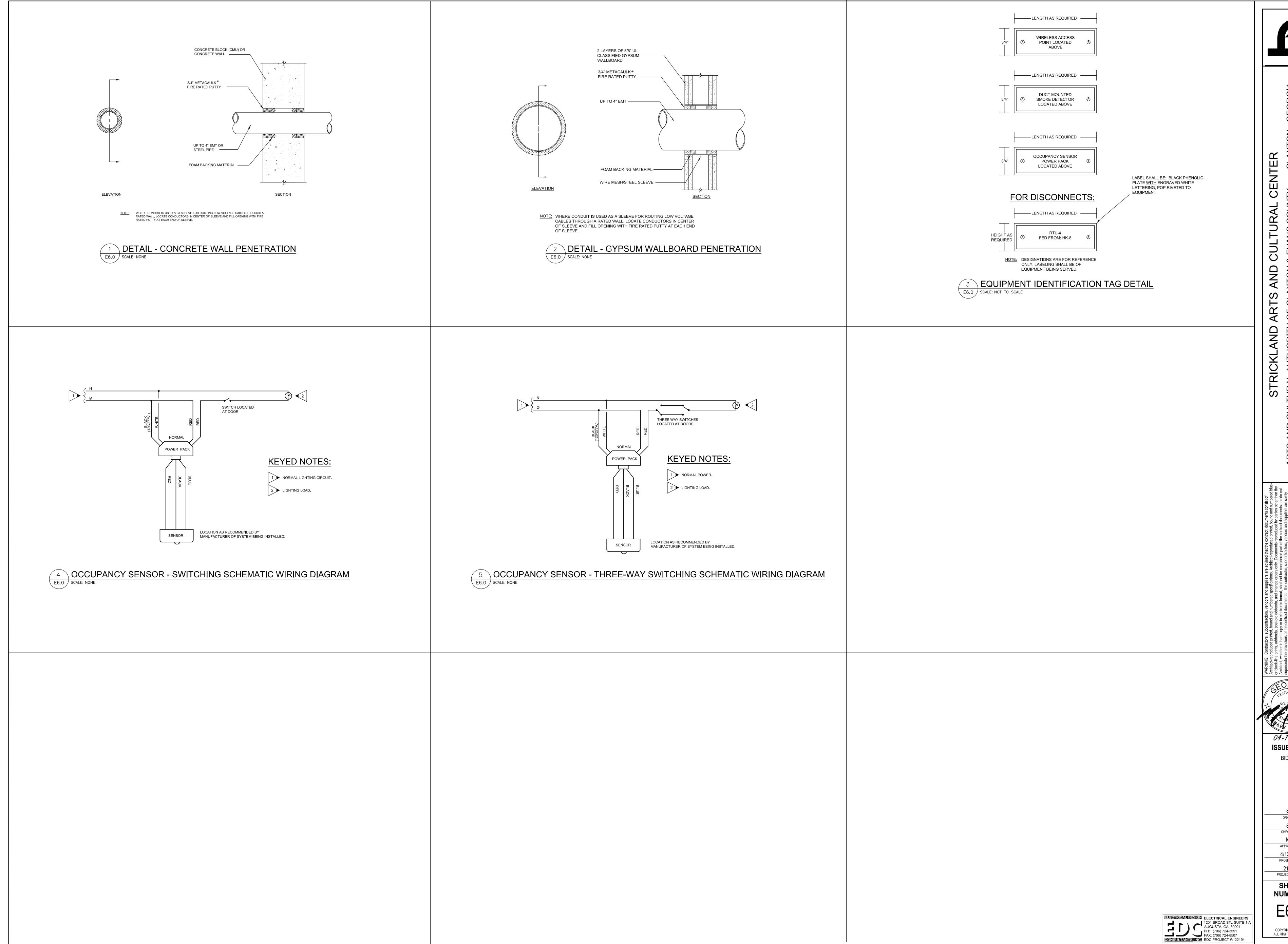
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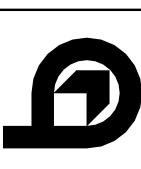
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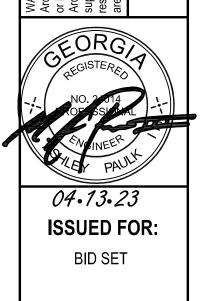
CHECKED BY APPROVED BY 4/13/2023 PROJECT DATE

SHEET **NUMBER:** 

PROJECT NUMBER







SKH DRAWN BY CHECKED BY MAP APPROVED BY PROJECT DATE 21-036 PROJECT NUMBER

NUMBER:

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PROJECT NUMBER **NUMBER:** 

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**GENERAL NOTES** 

6 ALL DEVICE PLATES SHALL BE STANDARD SIZE U.N.O.

1 ALL LINE VOLTAGE ELECTRICITY SHALL BE PROVIDED AND INSTALLED BY E.C. ALL VOICE SERVICES, DATA SERVICES, COMPUTER NETWORKING SERVICES AND CABLING FOR SAID SERVICES SHALL BE PROVIDED BY OTHERS.

3 ALL FREE AIR CABLING SHALL BE PLENUM RATED. 4 ALL DEVICE PLATES MOUNTED IN INTERIOR WALL SHALL HAVE A NATURAL ALUMINUM FINISH, U.N.O.

5 ALL DEVICE PLATES MOUNTED INSIDE FLOOR BOXES SHALL HAVE A NATURAL ALUMINUM FINISH, U.N.O.

| SYMBOL LEGE       | ND  |
|-------------------|---|
| XXXXXX            | EQUIPMENT IDENTIFIER  |
| 1"C & (2) 1-1/2"C | EMPTY LOW VOLTAGE CONDUIT WITH PULL STRING. E.C. TO PROVIDE SIZE & QUANTITY INDICATED. CONDUIT TO BE (1) 1"C IF NO NOTATION GIVEN. LINE DOES NOT IMPLY HOW CONDUIT IS TO BE ROUTED. ROUTE CONDUIT AS REQUIRED IN FIELD.   |
|                   | E.C. SUPPLIED CIRCUIT(S). ARROWS DENOTE QUANTITY OF CIRCUITS. CROSSMARKS INDICATE QUANTITY OF CONDUCTORS PER CIRCUIT. ALL CONDUCTORS TO BE 20A 120VAC CONDUCTORS UNLESS NOTED OTHERWISE. ALL RUNS TO INCLUDE GROUNDING CONDUCTOR WHICH IS NOT INCLUDED IN THE CROSSMARKS. RUNS DEVOID OF CROSSMARKS ARE TO CONTAIN (2) 20A 120VAC CONDUCTORS & (1) GROUNDING CONDUCTOR UNLESS NOTED OTHERWISE. "IG" INDICATES ISOLATED GROUNDING CONDUCTOR. |
| РВ                | PULL BOX SUPPLIED BY E.C. SIZE AS REQUIRED. LOCATE BOX IN ACCESSIBLE AREA.  |
| Т                 | CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE CEILING IN ROOM WHERE SYMBOL IS SHOWN, UNO  |
|                   | WALL-MOUNTED 20A/120V DUPLEX RECEPTACLE ON DEDICATED 20A CIRCUIT  |
|                   | CEILING MOUNTED 20A/120V DUPLEX RECEPTACLE ON DEDICATED 20A CIRCUIT   |
|                   | 20A/120VAC DUPLEX RECEPTACLE ON DEDICATED 20A CIRCUIT MOUNTED IN FLOOR BOX  |
| IG                | WALL-MOUNTED 20A/120V DUPLEX RECEPTACLE ON DEDICATED 20A CIRCUIT WITH ISOLATED GROUND ON DEDICATED 20A CIRCUIT  |
| □ <sub>IG</sub>   | CEILING MOUNTED 20A/120V DUPLEX RECEPTACLE ON DEDICATED 20A CIRCUIT WITH ISOLATED GROUND ON DEDICATED 20A CIRCUIT   |
| IG                | 20A/120VAC DUPLEX RECEPTACLE ON DEDICATED 20A CIRCUIT WITH ISOLATED GROUND MOUNTED IN FLOOR BOX ON DEDICATED 20A CIRCUIT  |
| ))))              | RADIO FREQUENCY TRANSMISSION SYSTEM   |
| (XX)              | SHEET KEYNOTE IDENTIFIER. SEE SHEET KEYNOTE WITH CORRESPONDING NUMBER "XX". NOTES CAN BE FOUND IN THE SHEET KEYNOTES TABLE ON PAGE WHERE IDENTIFIER APPEARS.  |
| X#                | WALL MOUNTED DATA DROP BY OTHERS. QUANTITY SHOWN AS NEEDED.   |
| X#                | DATA DROP MOUNTED IN FLOOR BOX BY OTHERS. QUANTITY SHOWN AS NEEDED  |

### **ABBREVIATIONS**

| AFC     | ABOVE FINISHED COUNTER                |
|---------|---------------------------------------|
| AFF     | ABOVE FINISHED FLOOR                  |
| AV      | AUDIO VISUAL                          |
| BLW CLG | BELOW CEILING                         |
| BOS     | BOTTOM OF STEEL                       |
| CKT     | CIRCUIT                               |
| EC      | ELECTRICAL CONTRACTOR                 |
| IR      | INFRARED                              |
| MC      | METAL-CLAD                            |
| OFCI    | OWNER FURNISHED, CONTRACTOR INSTALLED |
| OFOI    | OWNER FURNISHED, OWNER INSTALLED      |
| PROSC   | PROSCENIUM                            |
| PSC     | PRESENTATION SYSTEMS CONTRACTOR       |
| RCP     | REFLECTED CEILING PLAN                |
| SL      | STAGE LEFT                            |
| SR      | STAGE RIGHT                           |
| UNO     | UNLESS NOTED OTHERWISE                |
| VAC     | VOLTS-ALTERNATING CURRENT             |

## 1 P3.1 BACK BOX AND EQUIPMENT IDENTIFIER - - THE BACKBOX SIZE, RESPONSIBILITY, AND MOUNTING HEIGHT CAN BE FOUND WITH ITS CORRESPONDING FACEPLATE IN DRAWING SECTION AV400 - LINE VOLTAGE CIRCUIT HOMERUN W/ CIRCUIT COUNT. IDENTIFIER AT END OF ARROWS INDICATES - SIZE & QUANTITY OF LOW VOLTAGE CONDUIT. PARENTHESES INDICATE QUANTITY. - LOCATION POINT OF BACKBOX - FACEPLATE IDENTIFIER AS DETAILED IN DRAWING SECTION AV300 - CIRCUIT NUMBER IDENTIFICATION (SD= STAGE DIMMER, HD=HOUSELIGHT DIMMER) BACK BOX IDENTIFIER (SEE BACK BOX IDENTIFIER LEGEND BELOW)

Sheet List Table

LEGEND

AUDITORIUM 1ST FLOOR PLAN

AUDITORIUM 2ND FLOOR PLAN

AUDITORIUM LIGHTING RCP

AUDITORIUM STAGE LAYOUT

AUDITORIUM AV RCP

AUDITORIUM SECTION

PLATE DETAILS (CONT.)

PLATE DETAILS

AUDIO DETAILS

VIDEO DETAILS

LIGHTING DETAILS

EQUIPMENT RACK DETAILS AUDIO INPUT FLOW DIAGRAM

LIGHTING FLOW DIAGRAM

AUDIO OUTPUT FLOW DIAGRAM

VIDEO AND INTERCOM FLOW DIAGRAMS

NUMBER

AV301

AV401

AV402

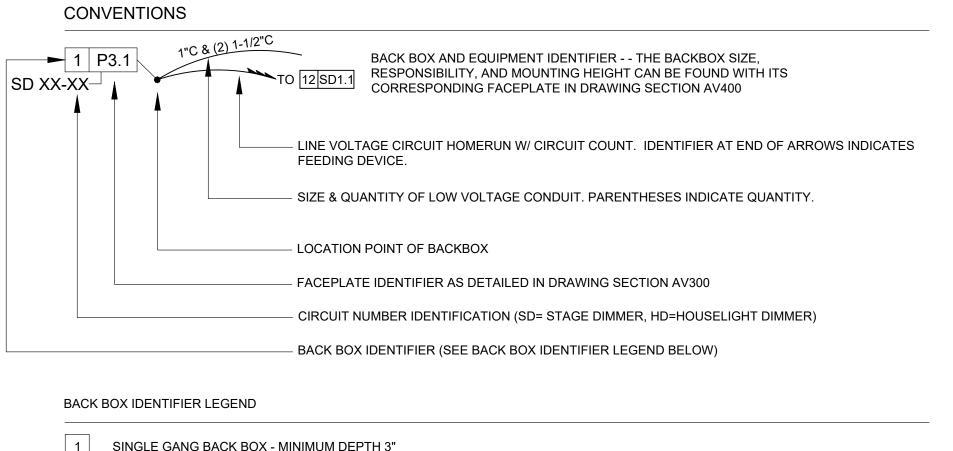
AV403

BACK BOX IDENTIFIER LEGEND 1 SINGLE GANG BACK BOX - MINIMUM DEPTH 3" 2 TWO GANG BACK BOX - MINIMUM DEPTH 3" THREE GANG BACK BOX - MINIMUM DEPTH 3" 4 FOUR GANG BACK BOX - MINIMUM DEPTH 3" 5 CUSTOM BACK BOX - SEE DETAIL 6 HOFFMAN 8" X 8" X 4" SCREW COVER PULL BOX 7 FLOOR BOX 8 AUDIO LOUDSPEAKER 9 AV EQUIPMENT RACK / LECTERN 10 PROJECTION SCREEN 11 FLAT PANEL DISPLAY 12 LIGHTING DIMMER PANEL 13 PROJECTOR 14 PRODUCTION PANEL

16 GRID IRON JUNCTION BOX

17 LIGHTING CONNECTOR STRIP

18 MOTORIZED HOIST POWER & CONTROL DISTRIBUTION BOX



15 PIPE MOUNTED LIGHTING PLUG BOX

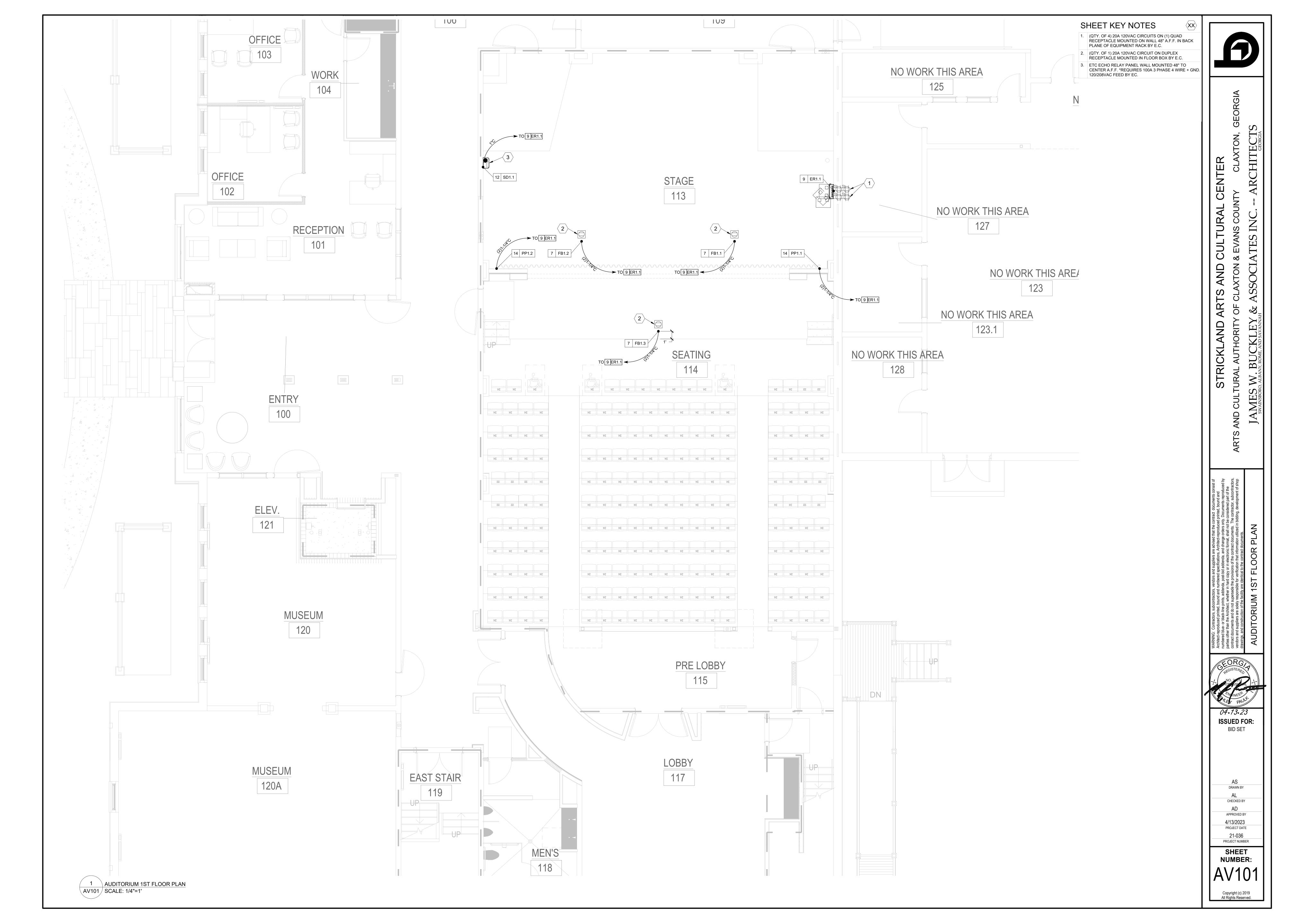
19 HOIST MOTOR

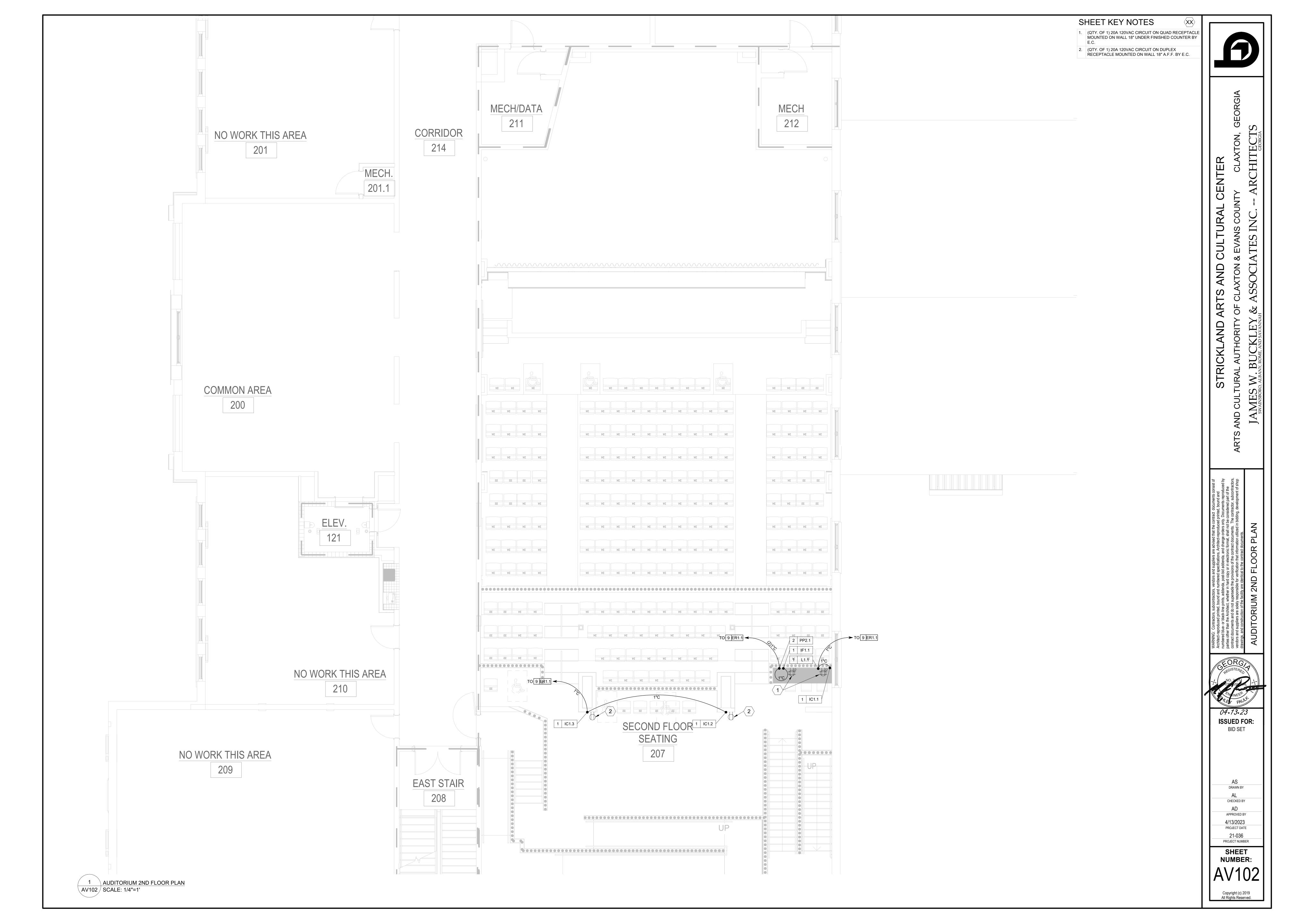
20 MOTORIZED HOIST CONTROLLER

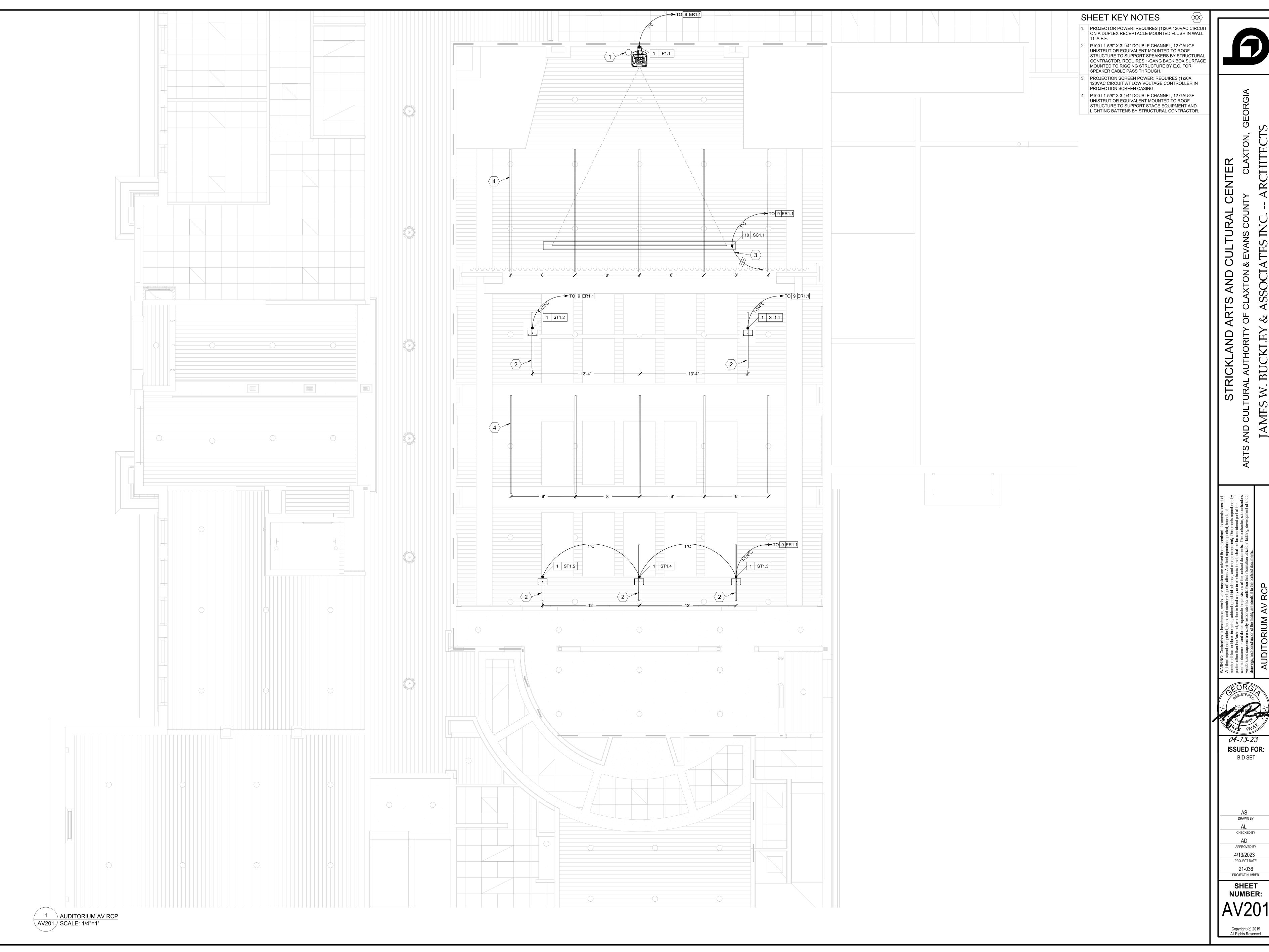
21 EMERGENCY LIGHTING TRANSFER SWITCH

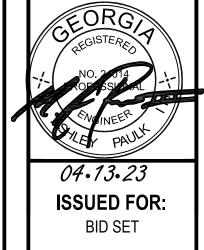
# CITY OF CLAXTON

STRICKLAND CULTURAL ARTS CENTER **CLAXTON, GA** PROJECT #21-036



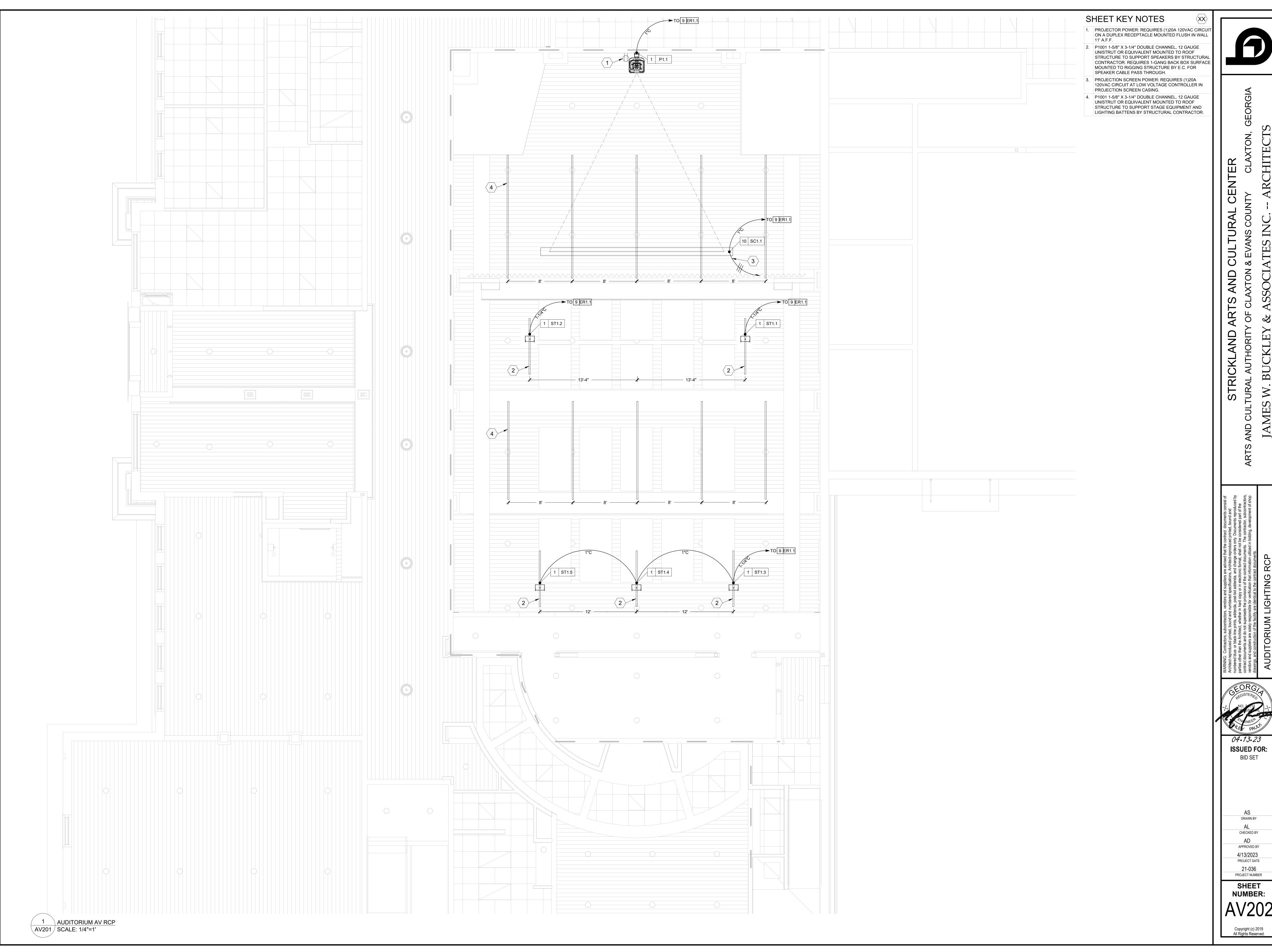




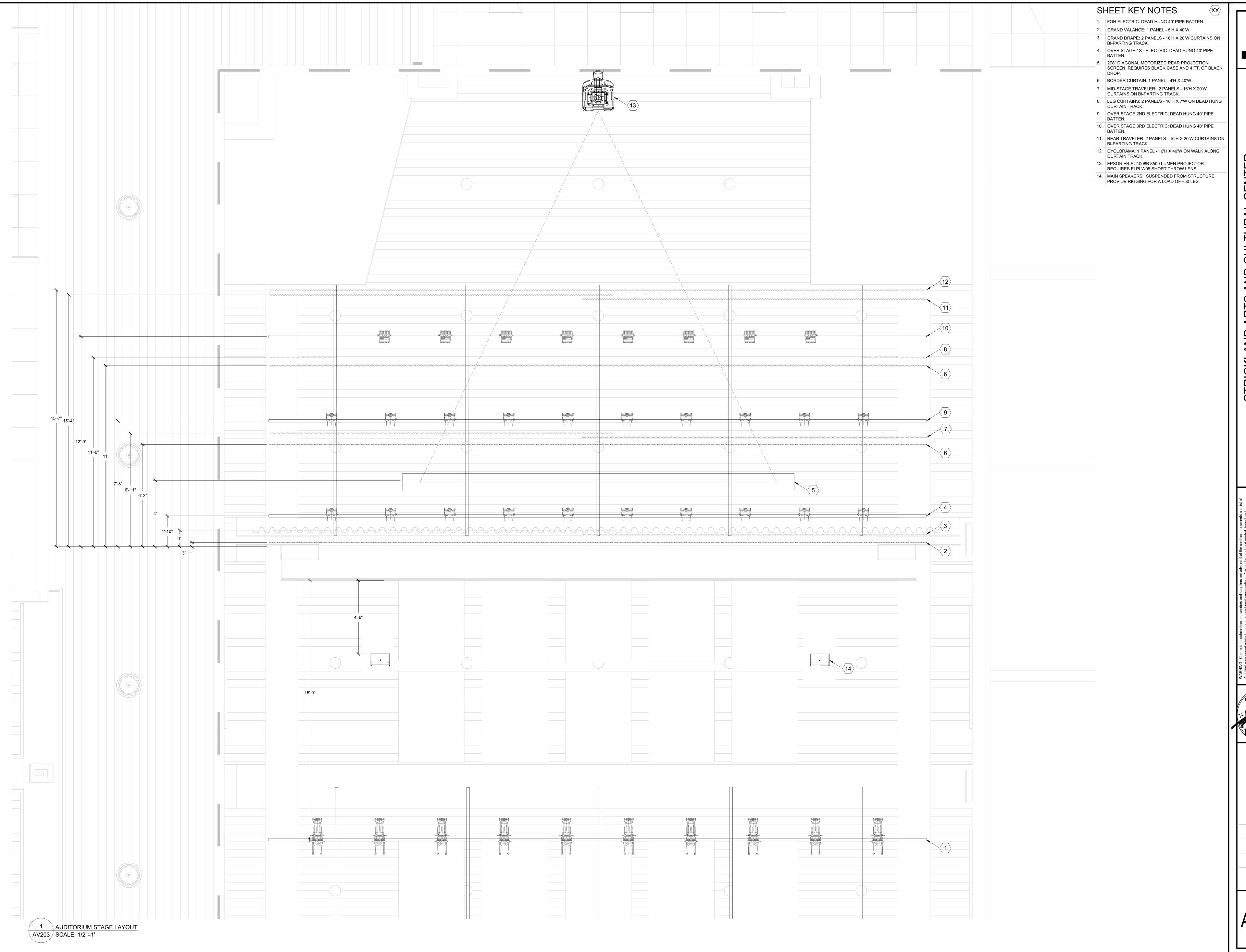


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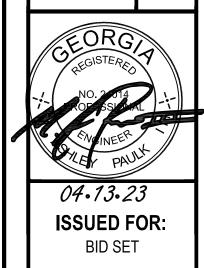
STRICKLAND ARTS AND CULTURAL CENTER

S AND CULTURAL AUTHORITY OF CLAXTON & EVANS COUNTY CLAXTON,

JAMES W. BUCKLEY & ASSOCIATES INC. -- ARCHITECT

Irawings, and construction of the facility are identical to the contract documents.

AUDITORIUM STAGE LAYOUT



AS
DRAWN BY
AL
CHECKED BY
AD
APPROVED BY
4/13/2023
PROJECT DATE
21-036

SHEET NUMBER:

AV203

JOISTS TO SUPPORT FRONT OF HOUSE LIGHTING

BATTEN AND STAGE RIGGING BY STRUCTURAL CONTRACTOR. DESIGN PER LOAD. 5. OVER STAGE 1ST ELECTRIC: DEAD HUNG 40' PIPE

6. 278" DIAGONAL MOTORIZED REAR PROJECTION SCREEN. REQUIRES BLACK CASE AND 4 FT. OF BLACK

7. BORDER CURTAIN: 1 PANEL - 4'H X 40'W

8. MID-STAGE TRAVELER: 2 PANELS - 16'H X 20'W CURTAINS ON BI-PARTING TRACK.

9. LEG CURTAINS: 2 PANELS - 16'H X 7'W ON DEAD HUNG CURTAIN TRACK. 10. OVER STAGE 2ND ELECTRIC: DEAD HUNG 40' PIPE

11. OVER STAGE 2ND ELECTRIC: DEAD HUNG 40' PIPE

12. REAR TRAVELER: 2 PANELS - 16'H X 20'W CURTAINS ON

BI-PARTING TRACK.

13. CYCLORAMA: 1 PANEL - 16'H X 40'W ON WALK ALONG CURTAIN TRACK.

14. EPSON EB-PU1008B 8500 LUMEN PROJECTOR. REQUIRES ELPLW05 SHORT THROW LENS.

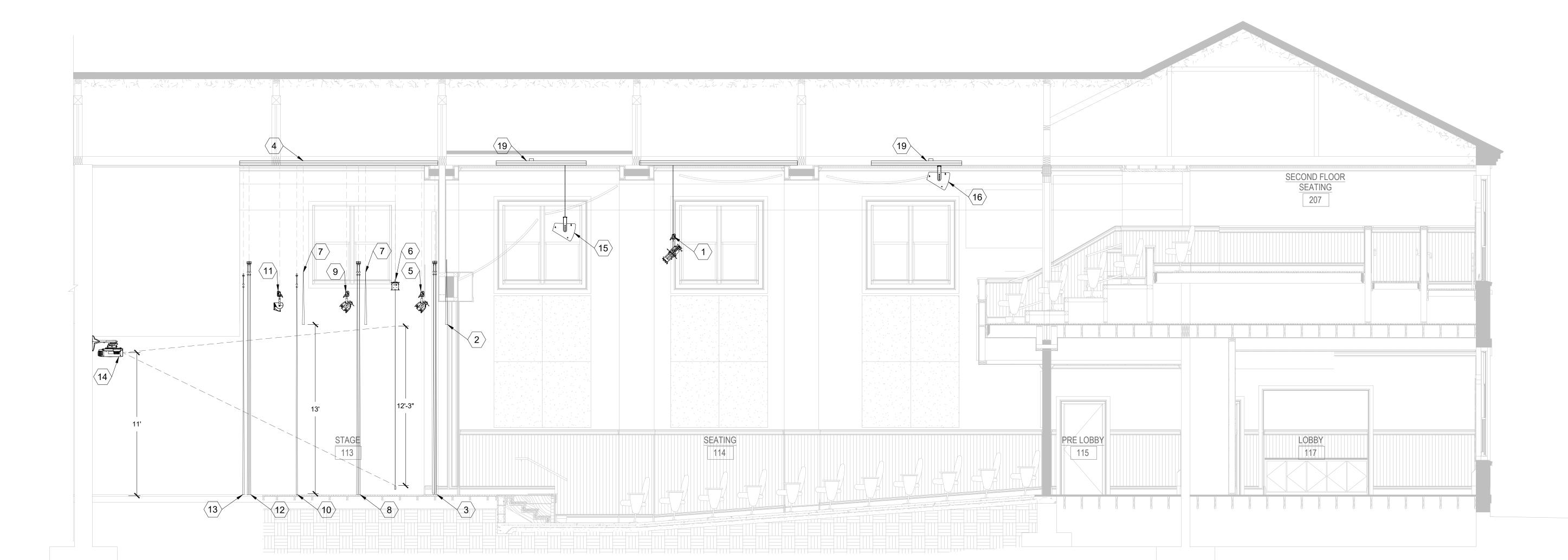
15. MAIN SPEAKERS: SUSPENDED FROM STRUCTURE. PROVIDE RIGGING FOR A LOAD OF ≈50 LBS.

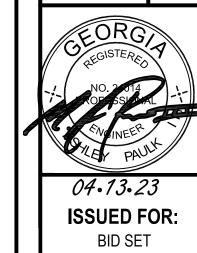
16. DELAY SPEAKERS: JBL AM5212-95 SPEAKERS YOKE MOUNTED TO STRUCTURE AND TILTED 9° FOR BALCONY FILL.

17. REMOVED

18. REMOVED

19. P1001 1-5/8" X 3-1/4" DOUBLE CHANNEL, 12 GAUGE UNISTRUT OR EQUIVALENT MOUNTED BETWEEN BAR JOISTS TO SUPPORT SPEAKERS BY STRUCTURAL CONTRACTOR. REQUIRES 1-GANG BACK BOX SURFACE MOUNTED TO RIGGING STRUCTURE BY E.C. FOR SPEAKER CABLE PASS THROUGH.





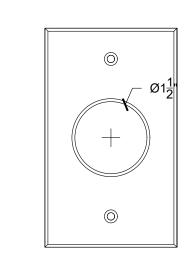
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PROJECT NUMBER







2 P1.1

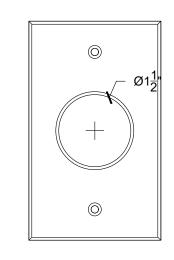
PROJECTOR I/O PLATE 1-GANG BACK BOX RECESSED FLUSH ON WALL 11' A.F.F. BACK BOX PROVIDED AND INSTALLED BY E.C. FACEPLATE PROVIDED AND INSTALLED BY P.S.C.

1 PROJECTOR CABLE PASS THROUGH PLATE AV401 SCALE: 6" = 1'



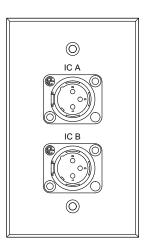
1 D1.1 THRU 1 D1.6 DMX OUTPUT PLATE 1-GANG BACK BOX PIPE MOUNTED TO LIGHTING BATTEN BACK BOX PROVIDED & INSTALLED BY E.C. FACE PLATE PROVIDED & INSTALLED BY P.S.C.

5 DMX OUTPUT PLATE AV401 | SCALE: 6" = 1'



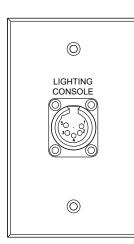
1 ST1.1 THRU 1 ST1.5 SPEAKER PASS THRU PLATE 1-GANG BACK BOX SURFACE MOUNTED TO CEILING STRUCTURE BACK BOX PROVIDED AND INSTALLED BY E.C. FACEPLATE PROVIDED AND INSTALLED BY P.S.C.

2 SPEAKER CABLE PASS THROUGH PLATE AV401 | SCALE: 6" = 1'



1 IC1.1 THRU 1 IC1.3 INTERCOM PLATE 1-GANG BACKBOX RECESSED FLUSH 18"A.F.F. BACKBOX PROVIDED AND INSTALLED BY E.C. FACEPLATE PROVIDED AND INSTALLED BY P.S.C.

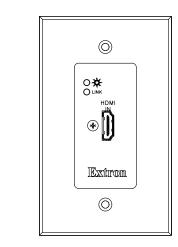
3 INTERCOM PLATE AV401 | SCALE: 6" = 1'



1 L1.1

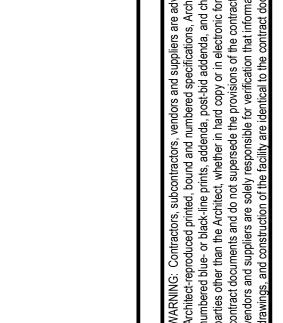
LIGHTING CONSOLE PLUG IN PLATE 1-GANG BACK BOX RECESSED FLUSH ON WALL 18" A.F.F. BACK BOX PROVIDED AND INSTALLED BY E.C. FACEPLATE PROVIDED AND INSTALLED BY P.S.C.

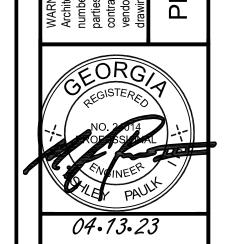
4 LIGHTING CONSOLE PLATE AV401 SCALE: 6" = 1'

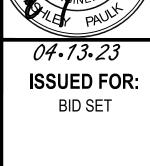


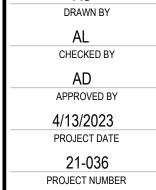
1 IF1.1 VIDEO INTERFACE PLATE 1-GANG BACK BOX RECESSED FLUSH ON WALL 18" A.F.F. BACK BOX PROVIDED AND INSTALLED BY E.C. FACEPLATE PROVIDED AND INSTALLED BY P.S.C.

6 VIDEO INTERFACE PLATE AV401 | SCALE: 6" = 1'





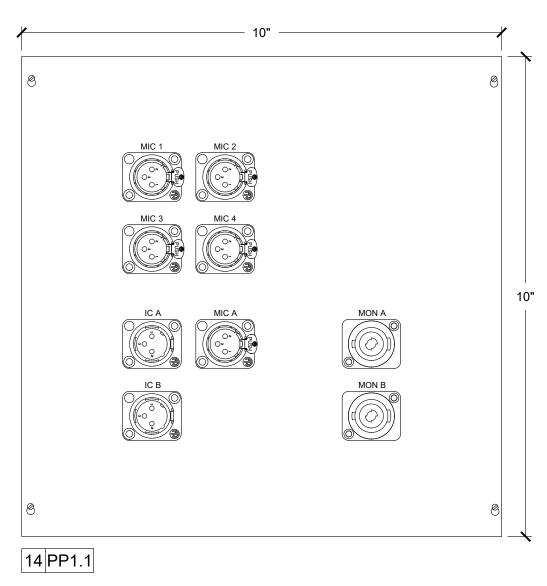




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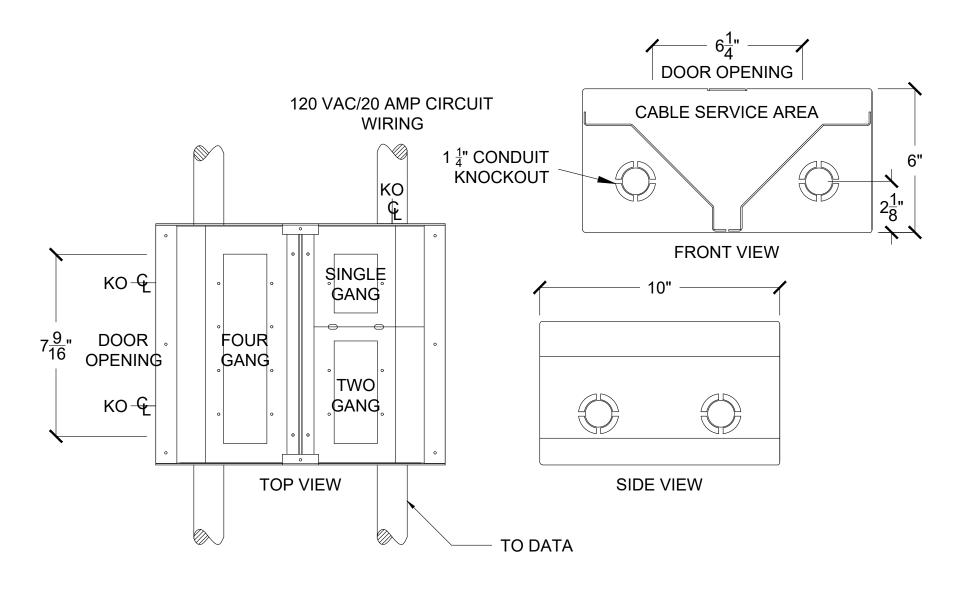
21-036 PROJECT NUMBER SHEET **NUMBER:** 

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STAGE LEFT PRODUCTION PANEL 8" X 8" X 4" SCREW COVER BOX FLUSH ON WALL 18" A.F.F. BACKBOX PROVIDED AND INSTALLED BY E.C. FACEPLATE PROVIDED AND INSTALLED BY P.S.C.

1 PRODUCTION PANEL AV402 | SCALE: 6" = 1'

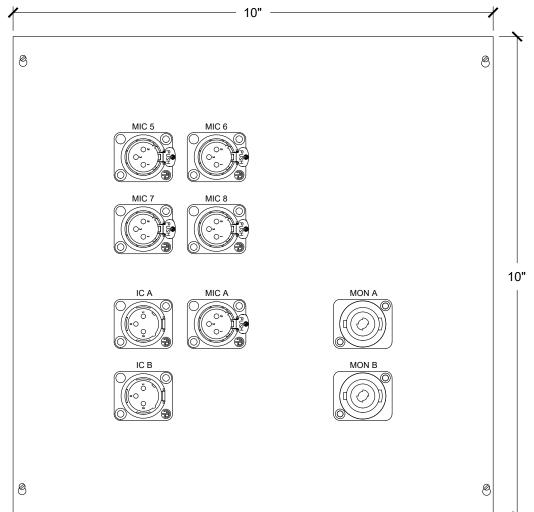


7 FB1.1 THRU 7 FB1.3

FLOORBOX

FLOORBOX RECESSED FLUSH ON FLOOR FLOORBOX PROVIDED BY P.S.C. AND INSTALLED BY E.C. FACEPLATES PROVIDED AND INSTALLED BY P.S.C. REQUIRES 20A 120VAC CIRCUIT BY E.C.

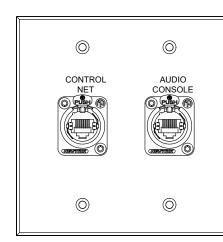
4 FLOORBOX AV402 SCALE: 3" = 1'



## 14 PP1.2

STAGE RIGHT PRODUCTION PANEL 8" X 8" X 4" SCREW COVER BOX FLUSH ON WALL 18" A.F.F. BACKBOX PROVIDED AND INSTALLED BY E.C. FACEPLATE PROVIDED AND INSTALLED BY P.S.C.

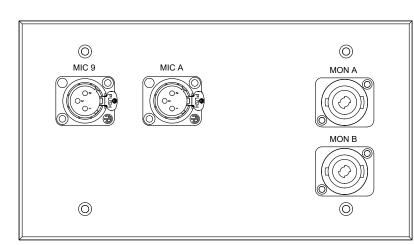
2 PRODUCTION PANEL AV402 | SCALE: 6" = 1'



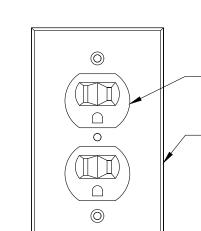
## 14 PP2.1

CONTROL BOOTH PRODUCTION PANEL 2-GANG BACK BOX FLUSH ON WALL 18" A.F.F. BACKBOX PROVIDED AND INSTALLED BY E.C. FACEPLATE PROVIDED AND INSTALLED BY P.S.C.

3 PRODUCTION PANEL AV402 | SCALE: 6" = 1'



5 4-GANG PLATE MTD. IN FLOORBOX 7 FB1.1 AV402 SCALE: 6" = 1'



 $\bigcirc$ 

DUPLEX RECEPTACLE PROVIDED & INSTALLED BY E.C. - COVER PLATE PROVIDED & INSTALLED BY P.S.C.

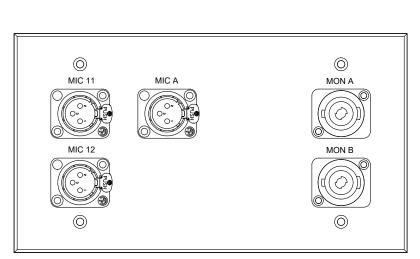
- DUPLEX RECEPTACLE PROVIDED & INSTALLED BY E.C.

COVER PLATE PROVIDED

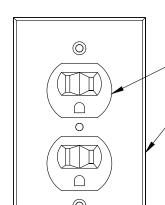
& INSTALLED BY P.S.C.

6 4-GANG PLATE MTD. IN FLOORBOX 7 FB1.2 SCALE: 6" = 1'

MON B



7 4-GANG PLATE MTD. IN FLOORBOX 7 FB1.3 AV402 SCALE: 6" = 1'

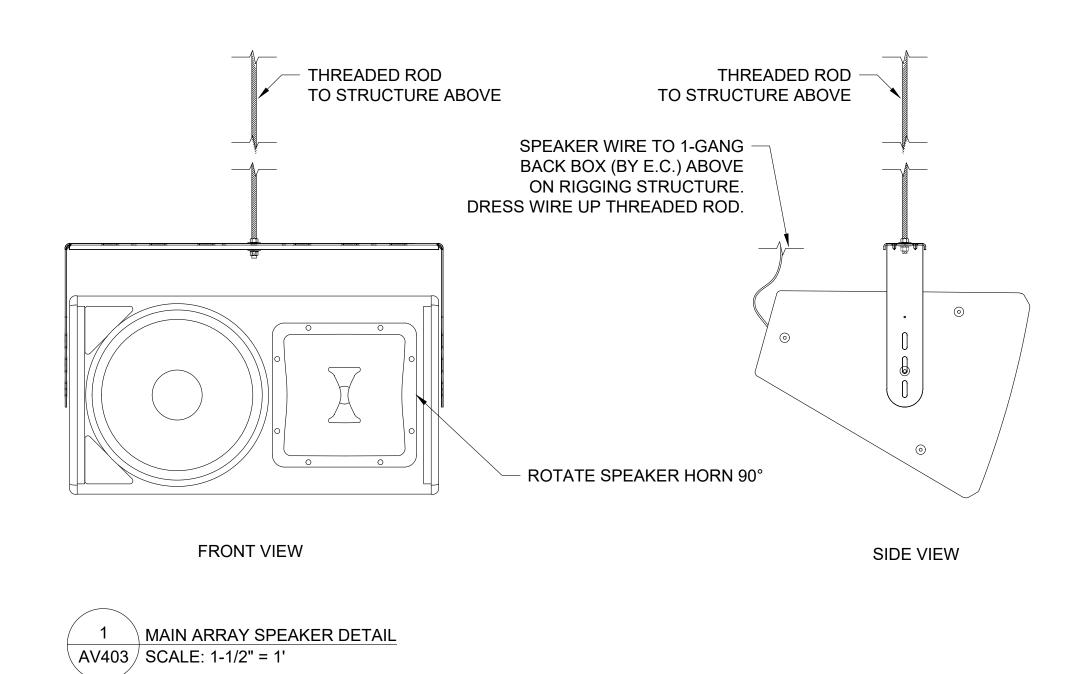


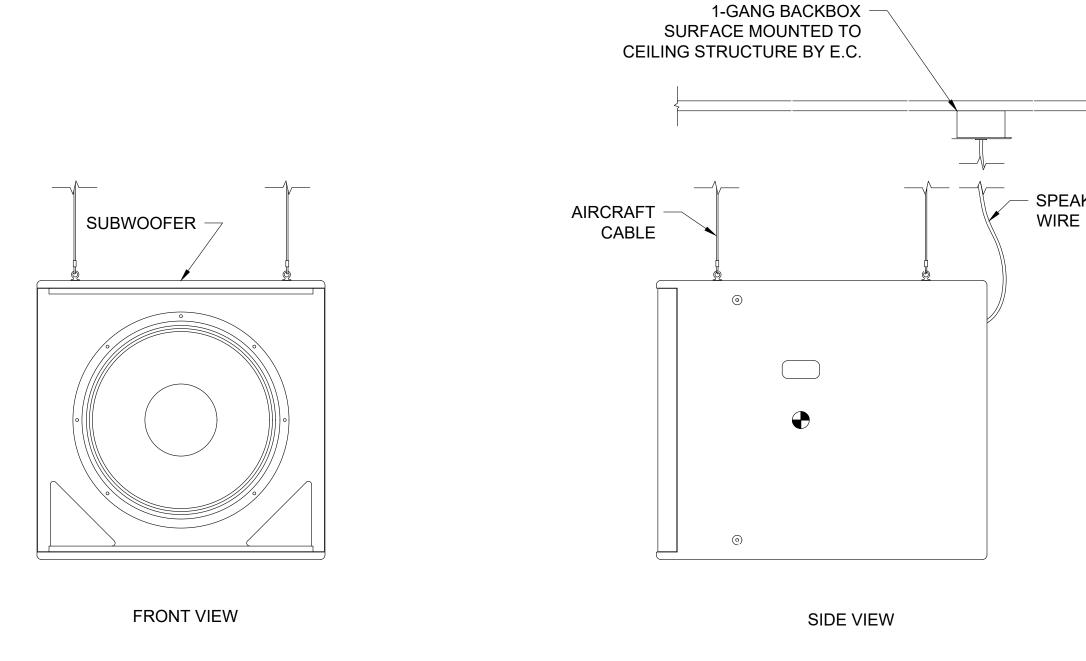
DUPLEX RECEPTACLE PROVIDED & INSTALLED BY E.C.

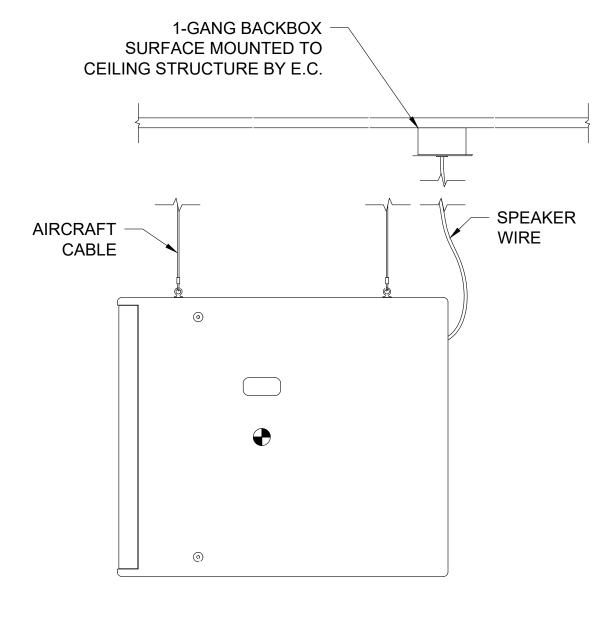
COVER PLATE PROVIDED & INSTALLED BY P.S.C.

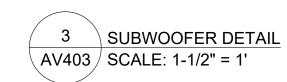
BID SET

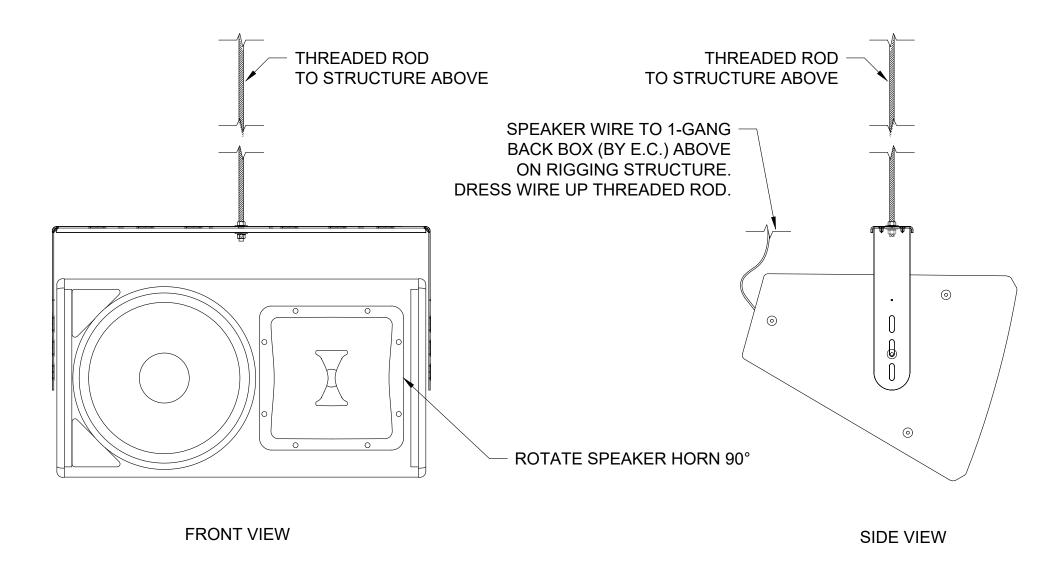
21-036 PROJECT NUMBER SHEET NUMBER:



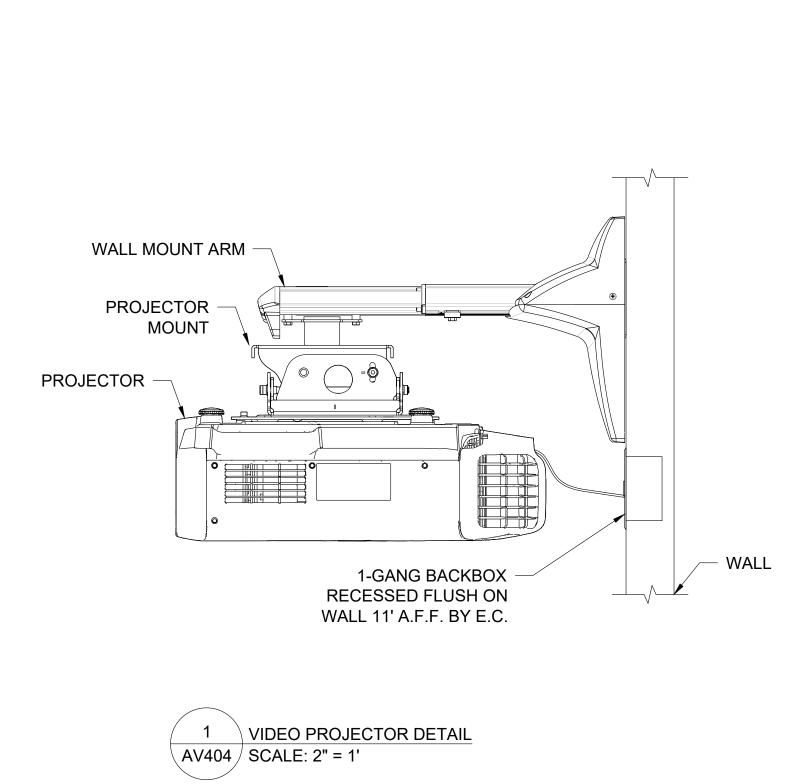


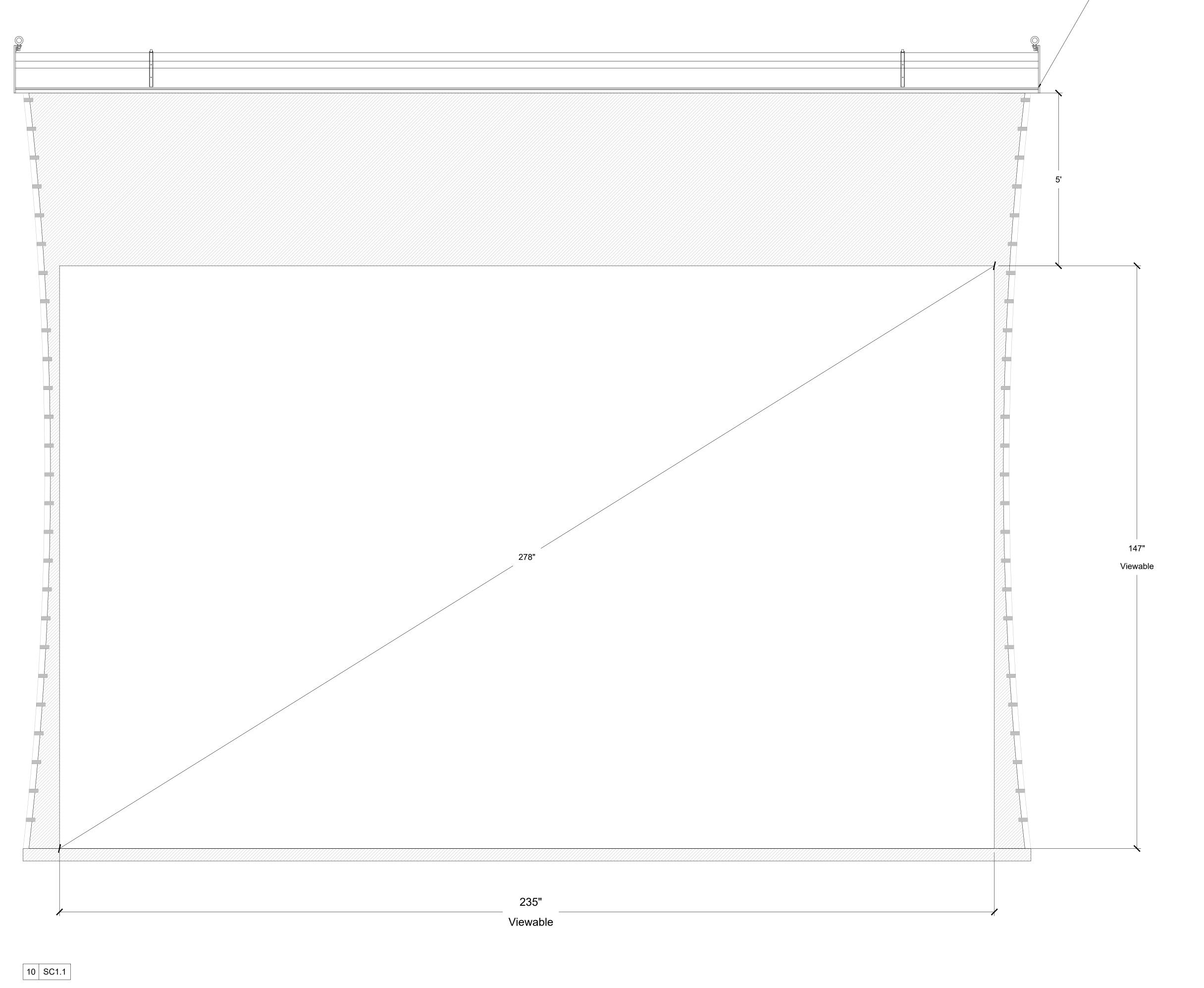




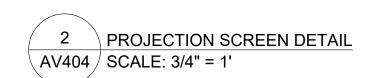


2 DELAY SPEAKER DETAIL AV403 SCALE: 1-1/2" = 1'





AUDITORIUM PROJECTION SCREEN
PROJECTION SCREEN SUSPENDED FROM CEILING STRUCTURE
PROJECTION SCREEN PROVIDED AND INSTALLED BY P.S.C.
LOW VOLTAGE CONTROLLER MOUNTED IN SCREEN CASING
REQUIRES 5' OF TOTAL BLACK DROP AT TOP OF PROJECTION SCREEN



— SCREEN REQUIRES 5' OF BLACKDROP

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OF SUED FOR:
BID SET

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DRAWN BY
AL
CHECKED BY
AD
APPROVED BY
4/13/2023
PROJECT DATE

21-036
PROJECT NUMBER

SHEET
NUMBER:

NUMBER: AV404

PROJECT NUMBER

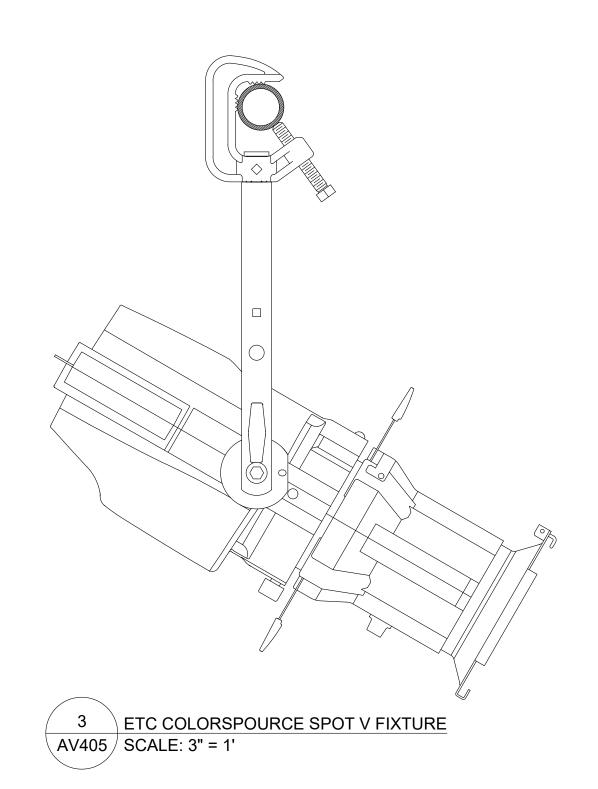
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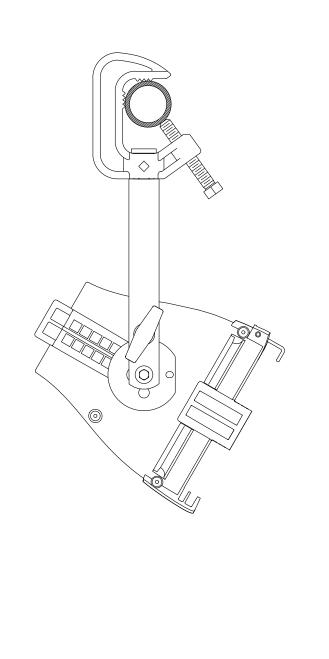
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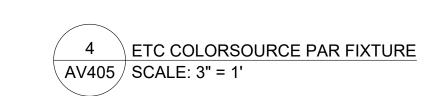
| ВОХ      | PROVIDED BY: | INSTALLED BY: | CIRCUITS:   | POSITION     | LOCATION   |
|----------|--------------|---------------|-------------|--------------|------------|
| 15 PM1.1 | P.S.C.       | E.C.          | RELAY 1-2   | FOH ELECTRIC | AUDITORIUM |
| 15 PM1.2 | P.S.C.       | E.C.          | RELAY 3-4   | FOH ELECTRIC | AUDITORIUM |
| 15 PM1.3 | P.S.C.       | E.C.          | RELAY 5-6   | 1ST ELECTRIC | AUDITORIUM |
| 15 PM1.4 | P.S.C.       | E.C.          | RELAY 7-8   | 1ST ELECTRIC | AUDITORIUM |
| 15 PM1.5 | P.S.C.       | E.C.          | RELAY 9-10  | 2ND ELECTRIC | AUDITORIUM |
| 15 PM1.6 | P.S.C.       | E.C.          | RELAY 11-12 | 2ND ELECTRIC | AUDITORIUM |
| 15 PM1.7 | P.S.C.       | E.C.          | RELAY 13-14 | 3RD ELECTRIC | AUDITORIUM |
| 15 PM1.8 | P.S.C.       | E.C.          | RELAY 15-16 | 3RD ELECTRIC | AUDITORIUM |

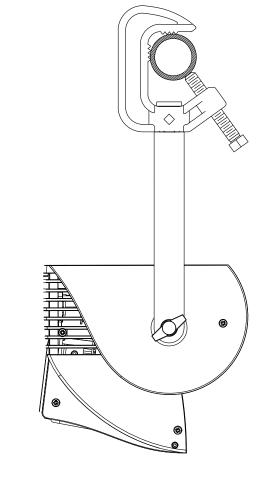
NUMBER PER RELAY CIRCUIT

PIPE MOUNTED PLUG BOX DETAIL
AV405 SCALE: 2" = 1'

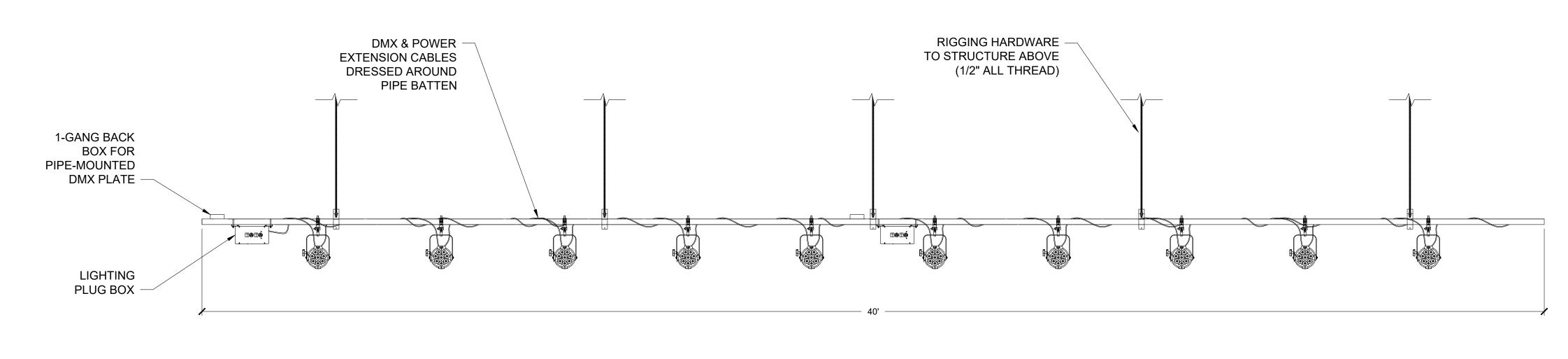


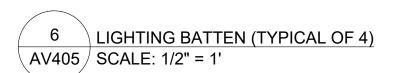






5 ETC COLORSOURCE CYC FIXTURE AV405 SCALE: 3" = 1'





12 SD1.1

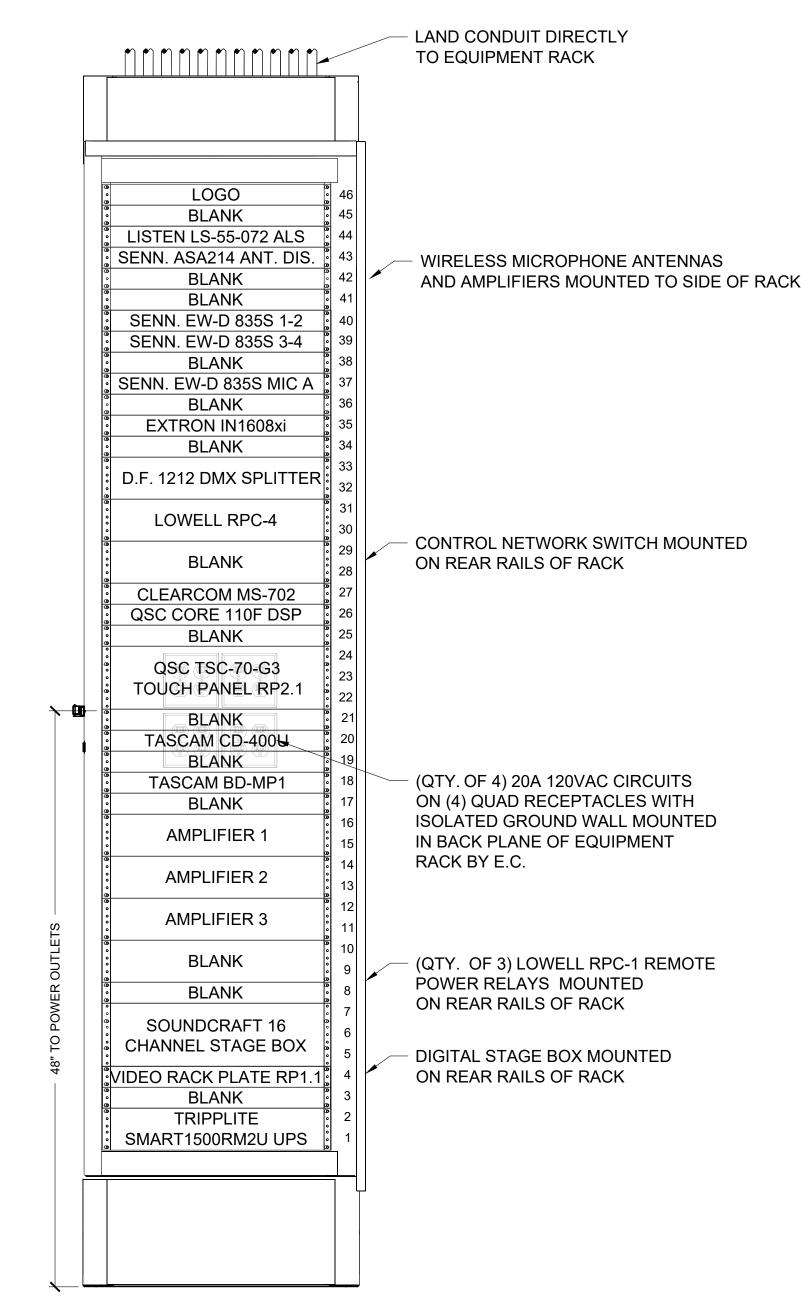
ETC ECHO RELAY PANEL

1 LIGHTING DIMMER PANEL AV405 SCALE: 2" = 1'

RELAY PANEL WALL MOUNTED 48" A.F.F. TO CENTER

DIMMER PANEL PROVIDED BY P.S.C. AND INSTALLED BY E.C.

REQUIRES 100A 3 PHASE 4 WIRE + GND. 120/208VAC FEED BY OTHERS

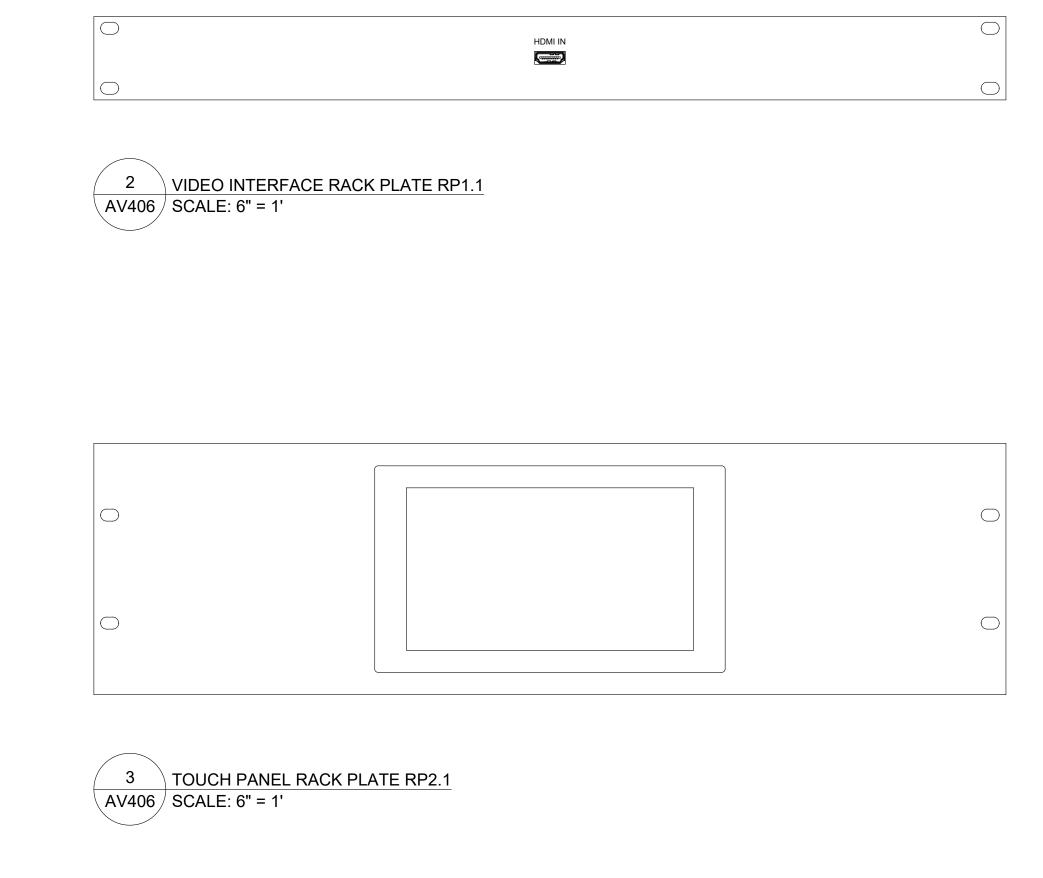


## 9 ER1.1

STAGE MANAGER'S EQUIPMENT RACK
RACK MOUNTED TO WALL. CONDUIT DIRECTLY TO RACK
EQUIPMENT RACK PROVIDED BY P.S.C. AND INSTALLED BY E.C.
EQUIPMENT PROVIDED AND INSTALLED BY P.S.C.
REQUIRES (4) 20A 120VAC QUAD RECEPTACLES IN BACK PLANE BY E.C.

REQUIRES 5A 120VAC CIRCUIT IN BACK PLANE OF RACK FROM BRANCH PANEL BY E.C.

1 STAGE MANAGER'S EQUIPMENT RACK AV406 SCALE: 1-1/2" = 1'

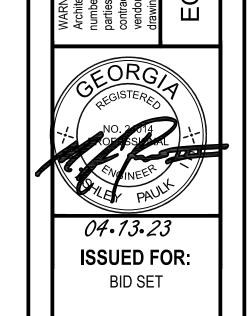


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er than the Architect, whether in hard copy or in electronic format, shall not be conside becuments and do not supersede the provisions of the contract documents. The contract suppliers are solely responsible for verification that information utilized in bidding, dand construction of the facility are identical to the contract documents.

JIPMENT RACK DETAILS



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DRAWN BY

AL
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AD
APPROVED BY

4/13/2023
PROJECT DATE
21-036
PROJECT NUMBER

SHEET NUMBER: AV406

XLR.3.f ➤ MIC 4 - XLR3F SOLDER - MIC 4 CON-020 SOLDER - MIC A CON-056 XLR.3.f ➤ MIC A - XLR3F CUSTOM 10"X10" PLATE XLR.3.f ➤ MIC 5 - XLR3F SOLDER - MIC 5 ——CON-009— XLR.3.f ➤ MIC 6 - XLR3F SOLDER - MIC 6 CON-010 XLR.3.f ➤ MIC 7 - XLR3F SOLDER - MIC 7 CON-011 XLR.3.f ➤ MIC 8 - XLR3F SOLDER - MIC 8 CON-012 XLR.3.f ➤ MIC A - XLR3F SOLDER - MIC A CON-057 LOC: AUDITORIUM\WALL MOUNTED +-----—HANT A——□ ANT A - F XLR - MIC OUT ——CON-041——► MIC/LINE 1 - XLR XLR - LINE OUT 1 ---CON-034-----ANT B—--- ANT B - F —CON-040—▶ MIC/LINE 2 - XLR XLR - LINE OUT 2 CON-022 IN WRLS MIC 1 OUT —CON-028—→ MIC/LINE 3 - XLR ETHERCON - MADI HD CAT-005 SENNHEISER EW-D ME2/835-S (Q1-6) —CON-009——► MIC/LINE 5 - XLR XLR - MIC OUT ---CON-035-------CON-011----► MIC/LINE 7 - XLR --CON-012----- MIC/LINE 8 - XLR —CON-033—→ MIC/LINE 9 - XLR SENNHEISER EW-D ME2/835-S (Q1-6) —CON-032—▶ MIC/LINE 10 - XLR XLR - MIC OUT ---CON-036----—CON-098— ► MIC/LINE 11 - XLR ——ANT B——⊲∐ ANT B - F —CON-097—▶ MIC/LINE 12 - XLR WRLS MIC 3 —CON-034— ► MIC/LINE 13 - XLR —CON-035—▶ MIC/LINE 14 - XLR SENNHEISER EW-D ME2/835-S (Q1-6) —CON-036—→ MIC/LINE 15 - XLR —CON-037—→ MIC/LINE 16 - XLR STAGE BOX ---ANT B------- ANT B - F WRLS MIC 4 CORE 110F CON-021 MIC/LINE 1 +/- - PHOENIX -CON-001- AUDIO +/- 1 - AUDIO OUTPUT FLOW - AMPLIFIER 1 PHOENIX - MIC/LINE 1 +/-— ↑-CON-022— ► MIC/LINE 2 +/- - PHOENIX —CON-002—► AUDIO +/- 2 - AUDIO OUTPUT FLOW - AMPLIFIER 1 PHOENIX - MIC/LINE 2 +/-—CON-006 → AUDIO +/- 1 - AUDIO OUTPUT FLOW - AMPLIFIER 2 SENNHEISER POWER - DC PHOENIX - MIC/LINE 3 +/-ASA 214 —CON-007—► AUDIO +/- 2 - AUDIO OUTPUT FLOW - AMPLIFIER 2 PHOENIX - MIC/LINE 4 +/- CON-00 -CON-024 → AUDIO +/- 3 - AUDIO OUTPUT FLOW - AMPLIFIER 2 CON-003 → MIC/LINE 5 +/- - PHOENIX PHOENIX - MIC/LINE 5 +/- CON-024 ANTENNA A - BNC BNC - ANT B1 CON-004 MIC/LINE 6 +/- - PHOENIX —CON-025— ► AUDIO +/- 4 - AUDIO OUTPUT FLOW - AMPLIFIER 2 PHOENIX - MIC/LINE 6 +/--☐ ANTENNA B - BNC BNC - ANT A2 —CON-044— ► AUDIO +/- 1 - AUDIO OUTPUT FLOW - AMPLIFIER 3 PHOENIX - MIC/LINE 7 +/- CON-044-BNC - ANT B2 PHOENIX - MIC/LINE 8 +/- CON-043-—CON-043—→ AUDIO +/- 2 - AUDIO OUTPUT FLOW - AMPLIFIER 3 BNC - ANT A3 PHOENIX - FLEX CHANNEL 8 +/- CON-026-BNC - ANT B3 RJ45 - LAN A (☐—CAT-003— BNC - ANT A4 RJ45 - LAN B ——CAT-004— BNC - ANT B4 IN ANTENNA DISTRO 1 OUT SENNHEISER EW-D 835-S SET (Q1-6) ☐ ANT B - F CBS350-24FP-4G-NA MIC A WIRELESS OUT CAT-007—POE P-01 - RJ45 RJ45 - POE P-03 (\_\_\_CAT-004\_\_ CAT-009—POE P-02 - RJ45 RJ45 - POE P-04 (\_\_\_\_CAT-003 NETWORK SWITCH LISTEN TECHNOLOGIES LP-41-072-01
IN 12-PACK RECEIVER KIT OUT -CON-003-RCA - UNBAL ----CON-004----CD PLAYER ——CAT-009——► LAN/POE - RJ45 IN E835 VOCAL MIC OUT IN E609 INSTRUMENT MIC OUT LS-55-072 LISTEN TECHNOLOGIES CON-026 → AUDIO IN - XLR 3 MALE ANTENNA - BNC ON-STAGE MS7701B
IN MIC STAND OUT LOC: AUDITORIUM\RACK MOUNTED\ER1.1 PROCO SOUND AQ-15
IN 15' MIC CABLE OUT ,-----, RCI CUSTOM CUSTOM 4-GANG PLATE XLR.3.f ➤ MIC 9 - XLR3F SOLDER - MIC 9 ——CON-033 SOLDER - MIC A CON-027 XLR.3.f ➤ MIC A - XLR3F CUSTOM 4-GANG PLATE XLR.3.f ➤ MIC 10 - XLR3F XLR.3.f ➤ MIC A - XLR3F SOLDER - MIC A CON-030 OUT 25' NL4 CABLE RCI CUSTOM | CUSTOM 4-GANG PLATE XLR.3.f → MIC 11 - XLR3F XLR.3.f → MIC 12 - XLR3F SOLDER - MIC 11 —СОN-098—¦ SOLDER - MIC 12 CON-097 ,\_\_\_\_\_\_ XLR.3.f ➤ MIC A - XLR3F SOLDER - MON A CON-096-SI PERFORMER 2 RJ45 - MADI MAIN —CAT-006— LOC: AUDITORIUM\FLOOR BOX MOUNTED IN AUDIO CONSOLE OUT LOC: DELIVERABLE
SYS: AUDIO SYSTEM /----, CUSTOM 2-GANG PLATE CAT-006—C CONTROL NET - RJ45 RJ45 - CONTROL NET : CAT-007-RJ45 - LAN/POE —САТ-008—<mark>!</mark> — CAT-008—□ AUDIO CONSOLE - RJ45 RJ45 - AUDIO CONSOLE : CAT-005 `-----LOC: AUDITORIUM\WALL MOUNTED LOC: AUDITORIUM\CONTROL BOOTH\ON DESK

·-----

XLR.3.f ➤ MIC 1 - XLR3F

XLR.3.f ➤ MIC 2 - XLR3F

XLR.3.f ➤ MIC 3 - XLR3F

CUSTOM 10"X10" PLATE

SOLDER - MIC 1 ——CON-041—

SOLDER - MIC 2 CON-040

SOLDER - MIC 3 CON-028

AND ARTS

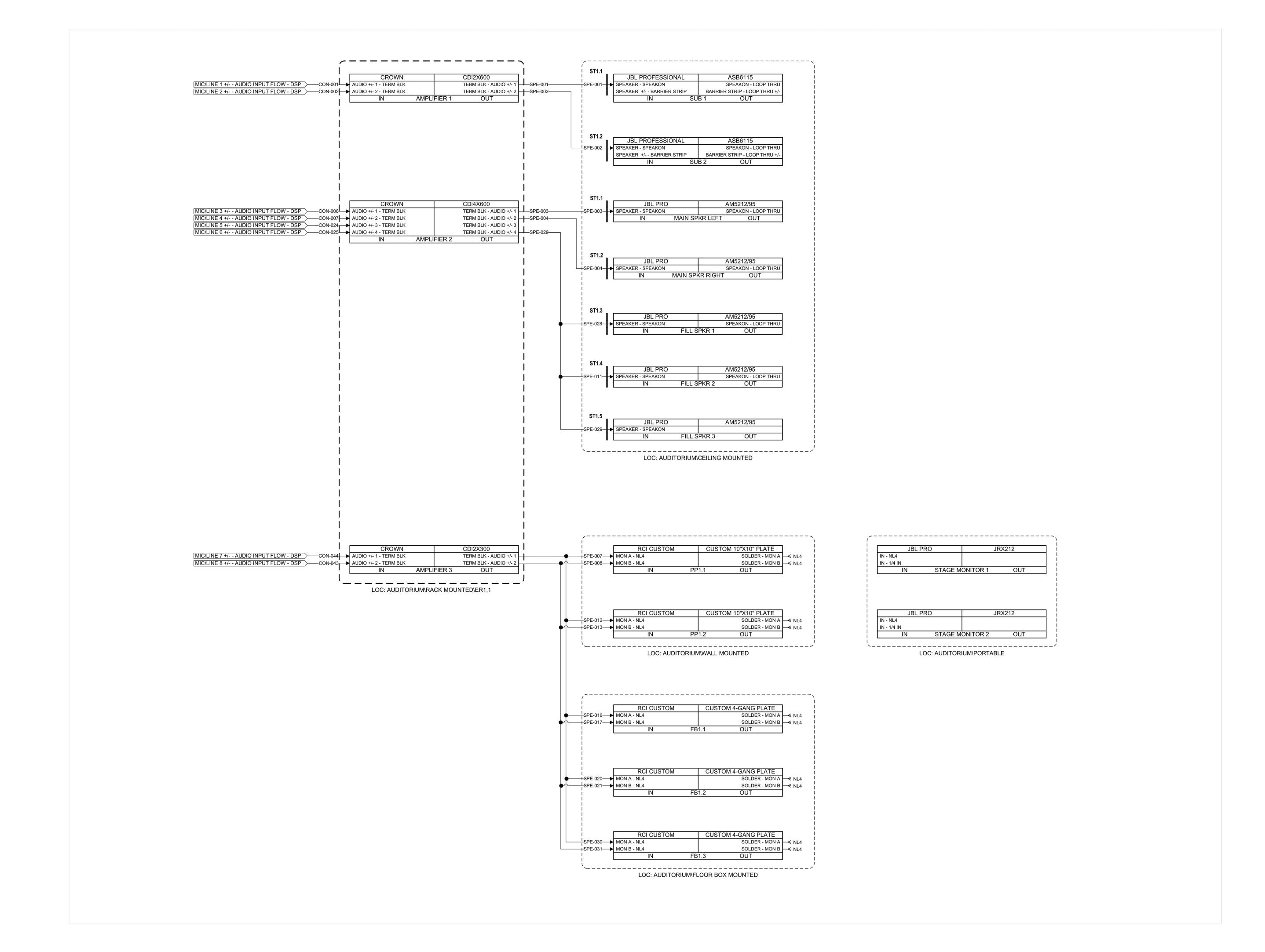
STRICKL



**BID SET** 



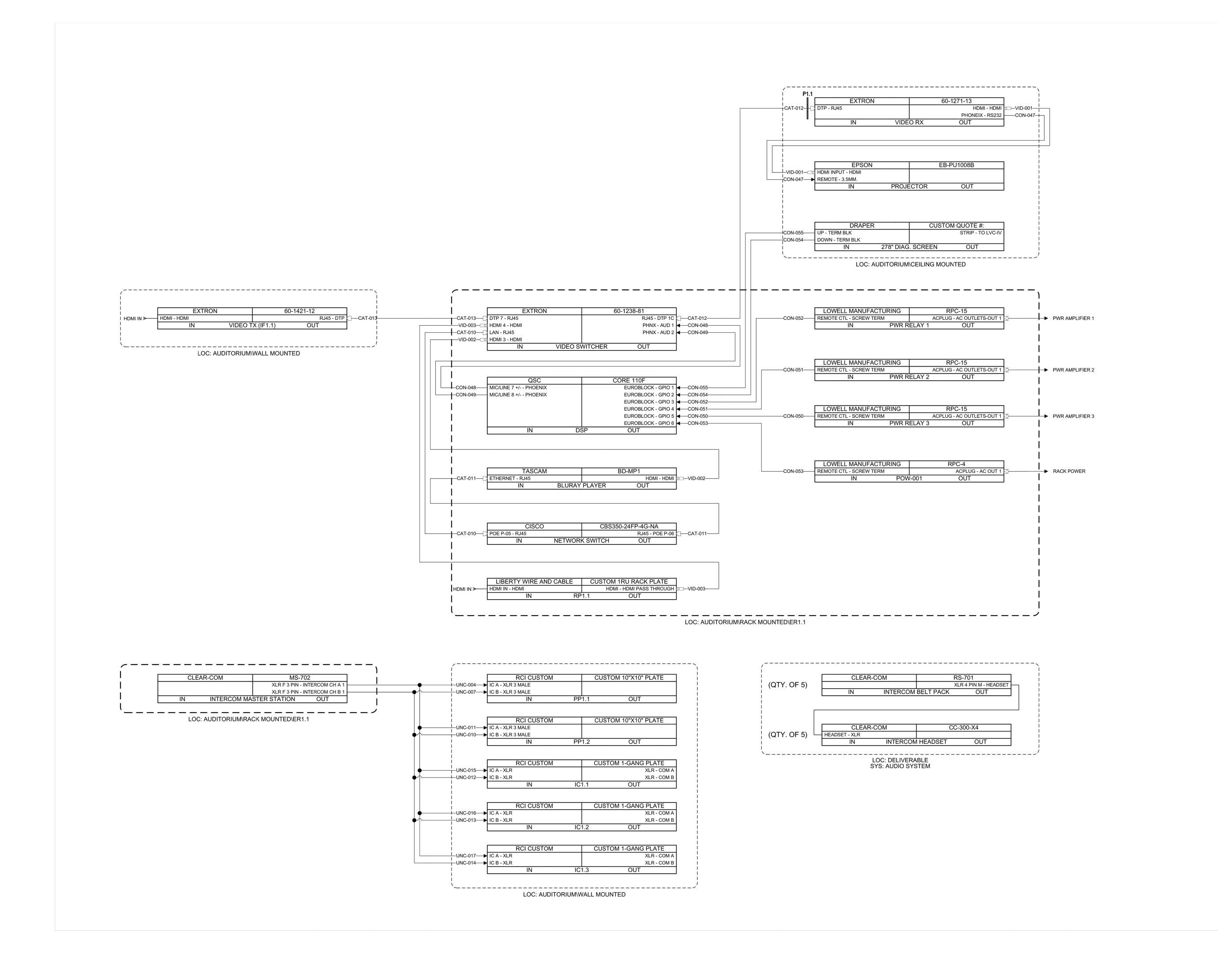




ISSUED FOR:
BID SET

21-036
PROJECT NUMBER

SHEET
NUMBER:
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**BID SET** 

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APPROVED BY
4/13/2023
PROJECT DATE
21-036
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