

T M P A R C H I T E C T U R E I N C

1191 WEST SQUARE LAKE ROAD
BLOOMFIELD HILLS · MICHIGAN · 48302
PH · 248.338.4561 FX · 248.338.0223
EM · INFO ®TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT

Smith Middle
School
Stage Upgrade
Bid Package No 32

Troy School District Troy, Michigan

First Level
Composite Floor Plan

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PROJECT NO.

13172G

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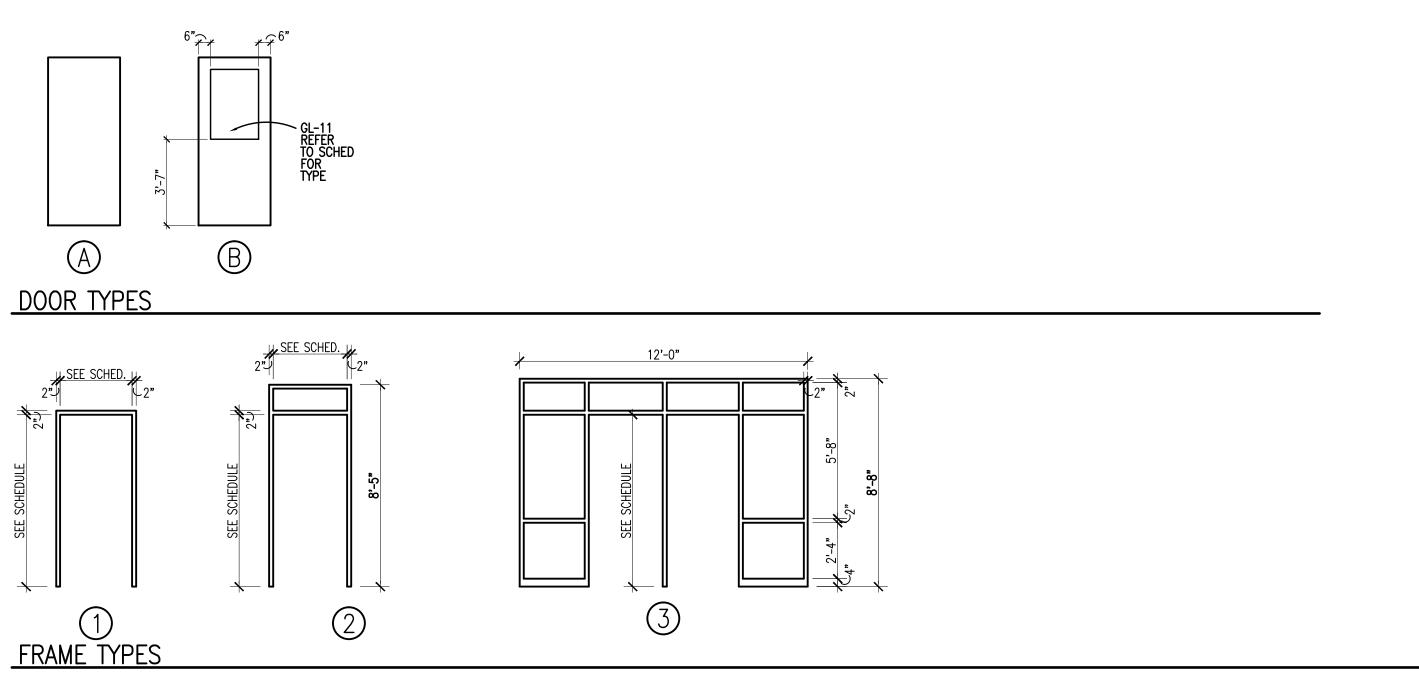
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FIRST LEVEL COMPOSITE FLOOR PLAN

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

Ope	ning	D	oor	•		F	ram	е		Details			7	<u> </u>	ìt	Remarks
o.	Opening Size (Width x Height)	Туре	Material	Finish	Glass	Туре	Material	Finish	Glass	Head	Jamb	Sill	Threshold	U.L. Label	Hdwe. Set	
irs	Level - Zone	ם' פ)'													
101	(2) 3'-0"x 7'-0"	В	FRP	PFN	1	3		PFN	GL-11				•		4	CYLINDER ON RIGHT DOOR
)105	(2) 3'-0"x 7'-0"	В	FRP	PFN	GL-11	3	AL	PFN	GL-11				•	•	4	CYLINDER ON RIGHT DOOR
109	3'-0"x 7'-0"	A	FRP	PFN	-	2	AL	PFN	GL-14	•	•	,	•	•	3	1/2 HEIGHT STAINLESS STEEL KICK PLATE ON INSIDE
116	2'-11"x 7'-0"	A	FRP	PFN	-	EX	EX	PTD	-	•	•	•	•	•	3	•
127	3'-0"x 7'-0"	A	H.M.	PTD	-	1	H.M.	PTD	-	•	•	,	•	•	5	•
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U.L. DOOR LABEL DESIGNATIONS:

U.L. LABEL** MIN. OPENING PROTECTION ASSEMBLY

1 HR. FIRE RATING 3/4 HR. FIRE RATING

1/3 HR. FIRE RATING

** ALL FIRE RATED DOORS SHALL BE SMOKE AND DRAFT

CONTROL LABELED IN ADDITION TO U.L. LABELS INDICATED.

3 HR. FIRE RATING 1-1/2 HR. FIRE RATING

DOOR SCHEDULE ABBREVIATIONS AND NOTES

DOOR SCHEDULE ABBREVIATIONS ALUMINUM ALUMINUM AND GLASS EXISTING FIRE RATED ALUMINUM FRAMING FIBERGLASS REINFORCED POLYESTER HOLLOW METAL PLASTIC LAMINATE CLAD METAL THRESHOLD NATURAL FINISHED WOODWORK PREFINISHED BY MANUFACTURER SOLID SURFACE THRESHOLD

STEEL STAINLESS STEEL SOLID CORE HARDWOOD

DOOR SCHEDULE GENERAL NOTES

1. GALVANIZED METAL TO BE PROVIDED FOR HOLLOW METAL DOOR AND/OR FRAME AT EXTERIOR LOCATION.

2. DOORS ARE 1-3/4" THICK UNLESS OTHERWISE NOTED.

DETAIL NUMBERS NOTED SIM. REFER TO DETAILS SHOWING HEAD, JAMB, AND/ OR SILL DETAILS THAT REPRESENT CONDITIONS SIMILAR TO THOSE NOTED.

4. HOLLOW METAL FRAMES SET IN MASONRY WALLS ARE 5 3/4" WIDE (U.O.N.). 5. HOLLOW METAL FRAMES, SET IN GYPSUM BD. /METAL STUD PARTITIONS, SHALL BE "DOUBLE BACK-BEND" FRAMES WITH A THROAT DIMENSION EQUAL TO THE PARTITION THICKNESS PLUS 9/16" RETURNS ON EACH

6. AN ASTERISK (*) CALLS ATTENTION TO THE REMARKS COLUMN OF THE SCHEDULE.

SIDE OF THE PARTITION. PROVIDE EQUAL RABBETS.



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REGISTRATION SEAL

CONSULTANT

PROJECT TITLE Smith Middle School Stage Upgrade Bid Package No.32

Troy School District Troy, Michigan

DOOR & Frame Schedule

ISSUE 1	DATES	
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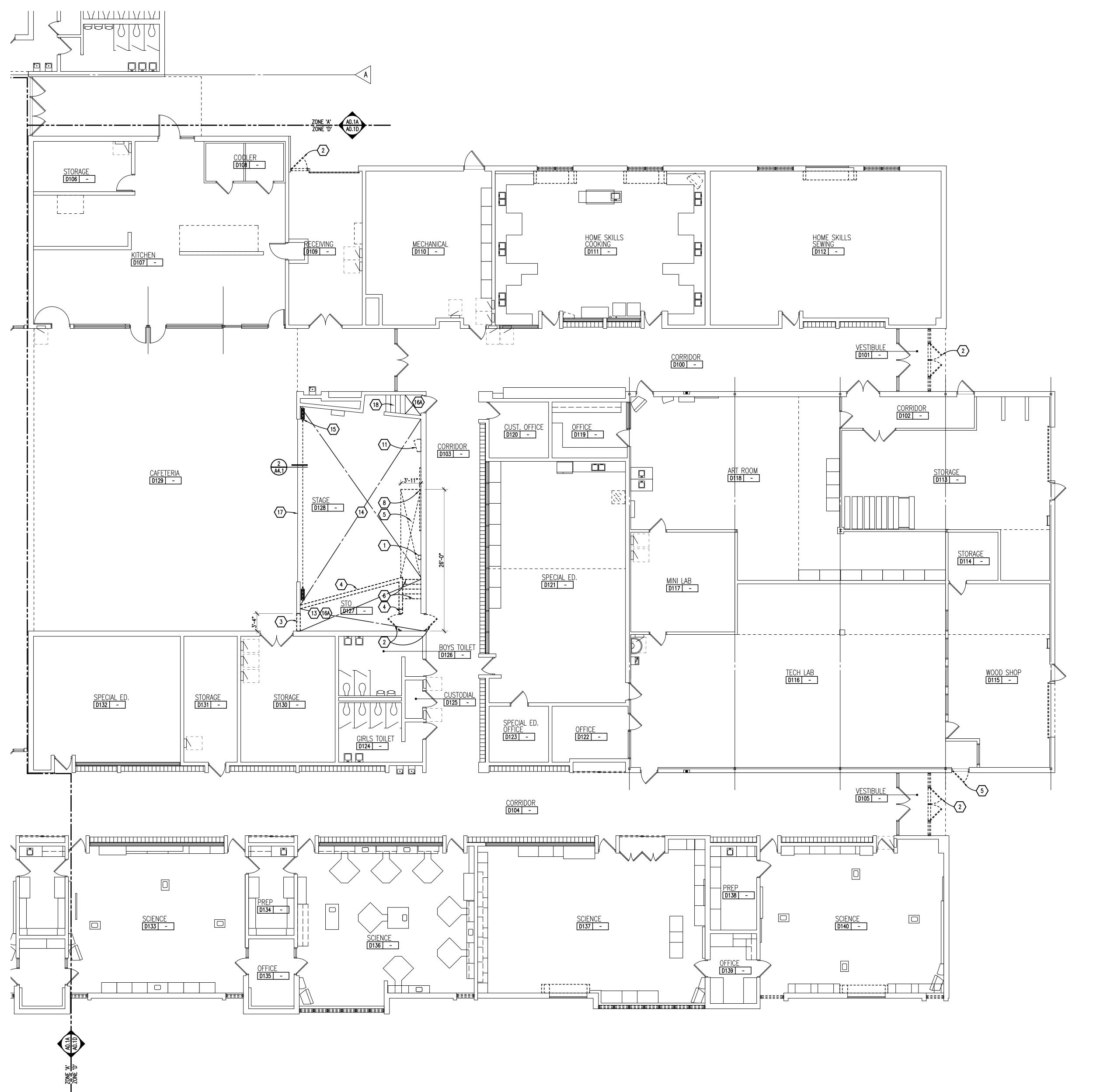
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GENERAL NOTES

. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED AND ADDITIONAL DEMOLITION AND PATCHING WORK BY MECHANICAL AND ELECTRICAL

- 2. REMOVAL OF CASEWORK OR MOVABLE EQUIPMENT TO BE FINISHED BY OWNER
- 3. WHERE REMOVAL OF CASEWORK, MILLWORK, CHALKBOARDS, TACKBOARDS, OR EQUIPMENT IS INDICATED, FILL HOLES AND PATCH EXISTING WALLS, BASE AND CEILINGS WHICH ARE TO REMAIN EXPOSED.
- 4. UNLESS OTHERWISE INDICATED, TOOTH NEW MATERIAL, INTO EXISTING, WHEREVER INFILL REMAINS EXPOSED.
- 5. SEE SPECIFICATION SECTIONS 017329 AND 024119 FOR ADDITIONAL DEMOLITION AND PATCHING REQUIREMENTS.
- 6. REFER TO ARCHITECTURAL WALL SECTIONS FOR ADDITIONAL SELECTIVE
- DEMOLITION.
- 7. CONTRACTOR REQUIRED TO PROTECT EXISTING FINISHES IN SURROUNDING AREAS AND WORK SPACE TO REMAIN THROUGH COURSE OF CONSTRUCTION.

DEMOLITION KEYNOTES

- REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL DEMOLITION WORK. PATCH, REPAIR AND/OR FILL EXPOSED ADJACENT SURFACES TO MATCH EXISTING (U.O.N.).
- 2 REMOVE DOOR, FRAME, HARDWARE AND SIDELIGHTS, WHERE APPLICABLE.
- REMOVE CMU WALL FOR NEW OPENING. COORDINATE OPENING REQUIRED WITH THE NEW WORK. TEMPORARILY SUPPORT ANY STRUCTURAL COMPONENTS SCHEDULED TO REMAIN
- 4 REMOVE CMU WALL COMPLETELY FROM FLOOR TO DECK ABOVE
- 5 REMOVE DOOR AND HARDWARE. FRAME TO REMAIN
- REMOVE EXISTING WOOD STRUCTURE STAIRS COMPLETELY. CLEAN UP AND PREPARE TO RECEIVE NEW RAMP.
- 7 REMOVE EXISTING METAL HANDRAIL
- REMOVE AND SALVAGE WALL MOUNTED PROJECTOR AND ALL ASSOCIATED HARDWARE. COORDINATE WITH OWNER TECHNOLOGY SPECIALIST FOR ADDITIONAL REQUIREMENTS AND DETAILS. PATCH, REPAIR AND/OR FILL EXPOSED ADJACENT SURFACES TO MATCH EXISTING.
- 9 REMOVE TACKBOARD, MARKERBOARD AND/OR CHALKBOARD.

 10 REMOVE AND SALVAGE SMART BOARD WITH ALL ASSOCIATED HARDWARE,
- REMOVE EXISTING PLAM TECHNOLOGY TOWER. COIL WIRING AT STRUCTURE ABOVE
- REMOVE MISCELLANEOUS WALL MOUNTED EQUIPMENT AND/OR ACCESSORIES INCLUDING SPEAKERS, CLOCKS, TACKSTRIPS AND MOUNTING BRACKETS. FILL CMU SURFACE HOLES W/ GROUT TO MATCH ADJACENT WALL SURFACE.
- REMOVE EXISTING ACT CEILING, (TILE AND GRID) AND LIGHT FIXTURES IN AREA INDICATED. COORDINATE WITH ELECTRICAL DRAWINGS AND NEW WORK REQ.
- REMOVE EXISTING SUSPENDED PLASTER AND METAL LATHE CEILING AND LIGHT FIXTURES IN AREA INDICATED. REMOVE AND STORE CURTAINS, TRACKS AND THEATRICAL LIGHT BAR ASSEMBLIES FOR REINSTALLATION. COORDINATE WITH ELECTRICAL DRAWINGS AND NEW WORK REQ.
- (15) REMOVE EXISTING ACCORDIAN STYLE OPERABLE WALL AND TRACK
- (16A) REMOVE EXISTING FLOOR TILE BY ASBESTOS CONTRACTOR
- REMOVE EXISTING DOORS AND DOOR CASINGS AT FRONT OF STAGE. REFER TO DETAILS FOR ADDITIONAL INFORMATION
- (18) REMOVE EXISTING PLYWOOD RAMP BUILT OVER EXISTING STEPS

SALVAGED ITEMS

PROJECTORSMART BOARD

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REGISTRATION SEAL

CONSULTANT

Smith Middle
School
Stage Upgrade
Bid Package No 32

Troy School District Troy, Michigan

DRAWING TITLE

First Level
Demolition Plan Zone 'D'
A

KEY PLAN (...).

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5-2021 CONSTRUCTION DOCUMENTS

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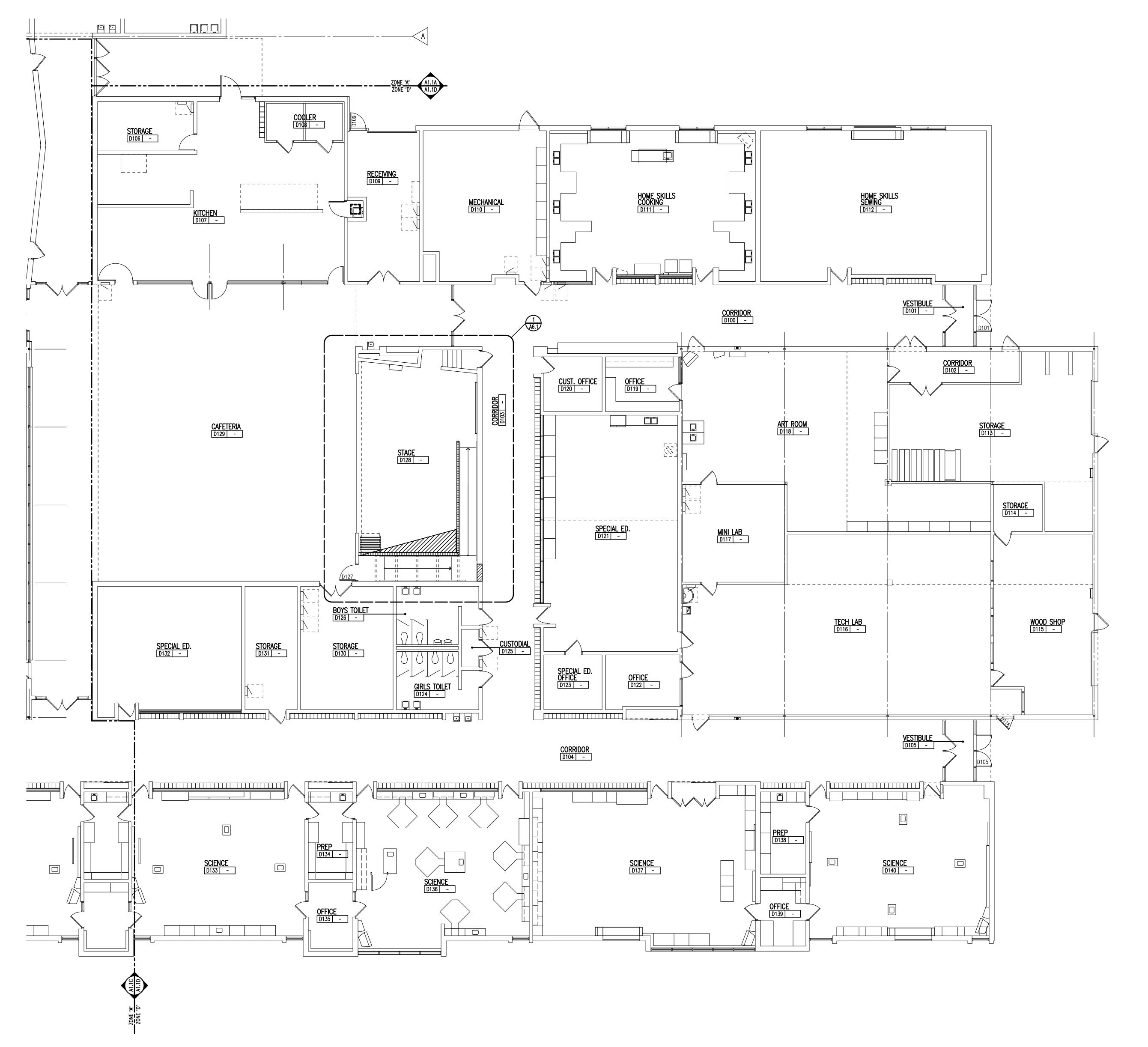
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PROJECT NO.

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FIRST LEVEL DEMOLITION PLAN - ZONE 'D'
SCALE: 1/8" = 1'-0"



FIRST LEVEL FLOOR PLAN - ZONE 'D'

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

WALL / PARTITION KEY

EXISTING WALL CONSTRUCTION
METAL STUD PARTITION

METAL STUD PARTITION
CONCRETE MASONRY UNIT WALL INFILL

WALL / PARTITION LEGEND

5/8" THICK GYPSUM BOARD ONE SIDE ON GALV. 3 5/8" METAL STUD FRAMING AT 16" O.C. SECURE STUDS FRAMING TO CMU WALL. STUDS FRAMING TO BE TERMINATED 10'-0" FROM THE STAGE FINISH FLOOR ELEVATION.

1B CMU WALL INFIL

NOTES:

1. ALL CEMENT BOARD PARTITIONS ARE 4 1/4" THICK (NOM.) UNLESS

2. ALL CMU WALL INFILL ARE SAME THICKNESS WITH EXISTING WALL. UNLESS DIMENSIONED OTHERWISE.

GENERAL NOTES

DIMENSIONED OTHERWISE.

1. CONTRACTORS SHALL VERIFY ALL EXISTING BUILDING DIMENSIONS, PARTITION AND WALL LOCATIONS, AND FLOOR ELEVATIONS IN THE FIELD AND NOTIFY THE ARCHITECTS REPRESENTATIVE OF ANY DISCREPANCIES BEFORE START OF WORK.

AFFECTED WORK. NOTIFY ARCHITECTS REPRESENTATIVE IF DISCREPANCIES

FLOOR PLANS ARE DIMENSIONED TO NOMINAL WALL THICKNESS - TYPICAL.
 DIMENSIONS FOLLOWED BY ± SHOULD BE REVIEWED AND ALL NECESSARY ADJUSTMENTS MADE PRIOR TO FABRICATION AND/OR INSTALLATION OF

ARISE BEFORE PROCEEDING WITH THE WORK.

4. INSTALL CONTROL JOINTS IN GYPSUM BOARD AND METAL STUD-FRAMED PARTITIONS, WALLS, CEILINGS, BULKHEADS, FASCIAE AND SOFFITS IN COMPLIANCE WITH SPECIFICATIONS, AND WITH GENERAL REQUIREMENTS OF ASTM C840. PRIOR TO COMMENCEMENT OF FRAMING INSTALLATION SUBMIT COORDINATION DRAWINGS INDICATING PROPOSED LOCATIONS OF ALL CONTROL

5. VERIFY QUANTITY, SIZE, AND LOCATION OF ALL FLOOR, ROOF, AND WALL OPENINGS FOR MECHANICAL AND ELECTRICAL WORK WITH THE APPROPRIATE TRADE. PROVIDE ALL OPENINGS SHOWN OR REQUIRED FOR THE COMPLETION OF THE WORK. PROVIDE ALL LINTELS REQUIRED FOR THESE OPENINGS PER SPECIFICATIONS.

6. VERIFY ALL DIMENSIONS IN FIELD.

JOINTS, AS SPECIFIED.

7. PROVIDE WOOD BLOCKING WITHIN STUD WALLS FOR WALL MOUNTED ITEMS i.e. GRAB BARS, TOWEL DISPENSERS, PENCIL SHARPENERS, WALL STOPS, ACCORDIAN PARTITION JAMBS, ETC. REFER ALSO TO A9._ SERIES AND A6._ SERIES DRAWINGS.

PATCHING NOTES

1. REFER TO DEMOLITION PLANS FOR ADDITIONAL PATCHING NOTES.

2. FOR ALL FLOOR SURFACES RECEIVING NEW FLOOR FINISHES, PREPARE SUBSTRATE BY PROVIDING LEVELING AND PATCHING COMPOUNDS RECOMMENDED BY FINISH FLOORING MANUFACTURERS. CONTRACTOR'S BASE BID PROPOSAL SHALL ASSUME THAT ALL AREAS, INDICATED TO RECEIVE NEW FINISHES, WILL REQUIRE FLOOR PREPARATION.

5. PATCH AND REPAIR ALL FLOOR AND WALL SURFACES LEFT DAMAGED OR INCOMPLETE FROM REMOVAL OF EXISTING PARTITIONS, MILLWORK, CASEWORK, CHALKBOARDS, TACKBOARDS, DISPLAY CASES OR OTHER FIXED EQUIPMENT WITH MATERIALS TO MATCH EXISTING, AS ACCEPTABLE TO THE ARCHITECT.

MATCH EXISTING MASONRY COURSING ADJACENT IN EACH AREA AND TOOTH NEW WORK INTO EXISTING, UNLESS OTHERWISE INDICATED.

5. AT EXISTING FLOOR FINISHES TO REMAIN, THAT BECOME SUBSTRATES FOR NEW FLOOR FINISHES, PATCH AND FILL EXISTING AS REQUIRED TO PREPARE FOR NEW FLOOR FINISH UNTIL ACCEPTABLE TO NEW FLOOR FINISH CONTRACTOR.



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REGISTRATION SEAL

CONSULTANT

Smith Middle School Stage Upgrade Bid Package No 32

Troy School District Troy, Michigan

First Level
Floor Plan Zone 'D'

B

C

D

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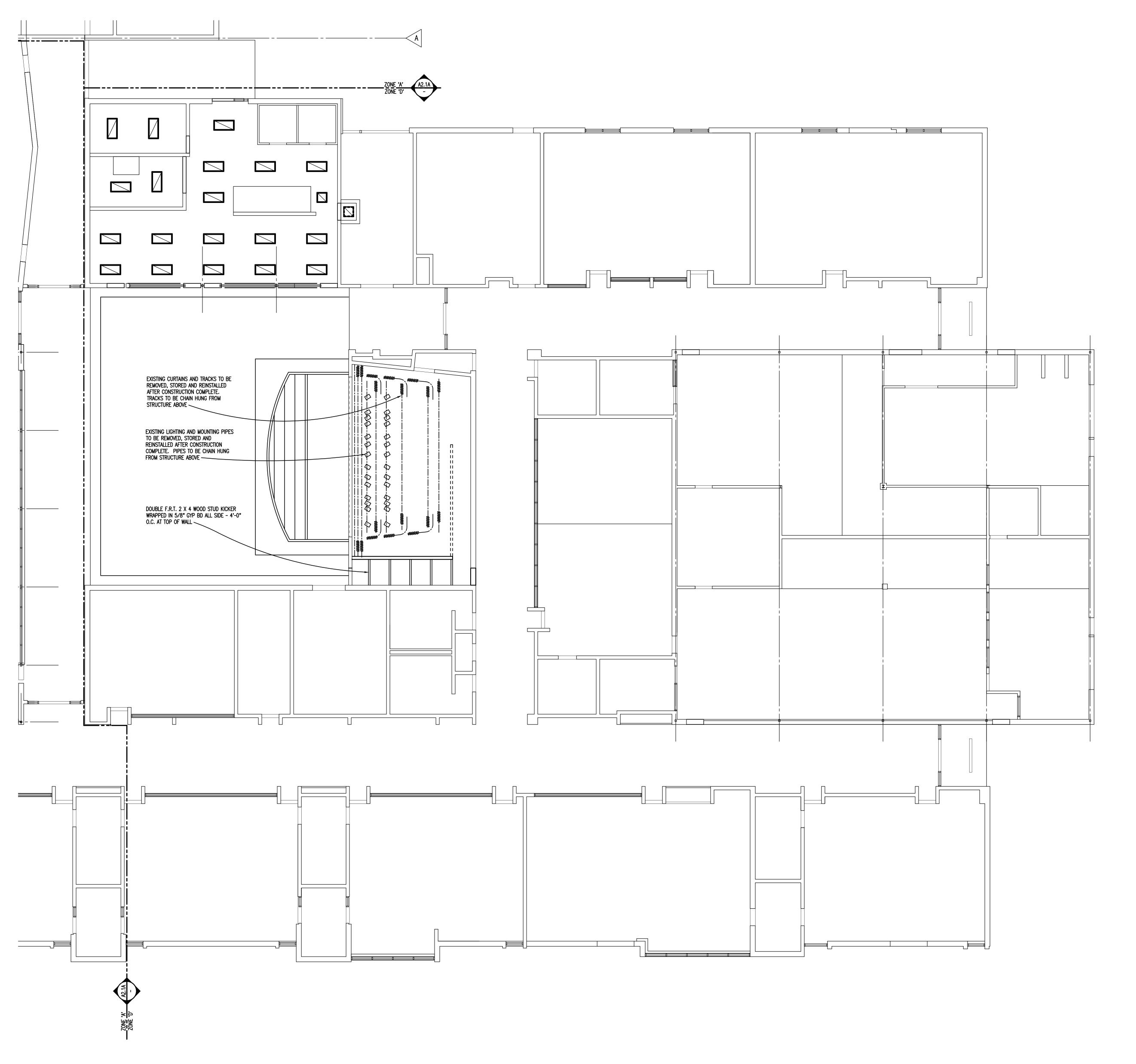
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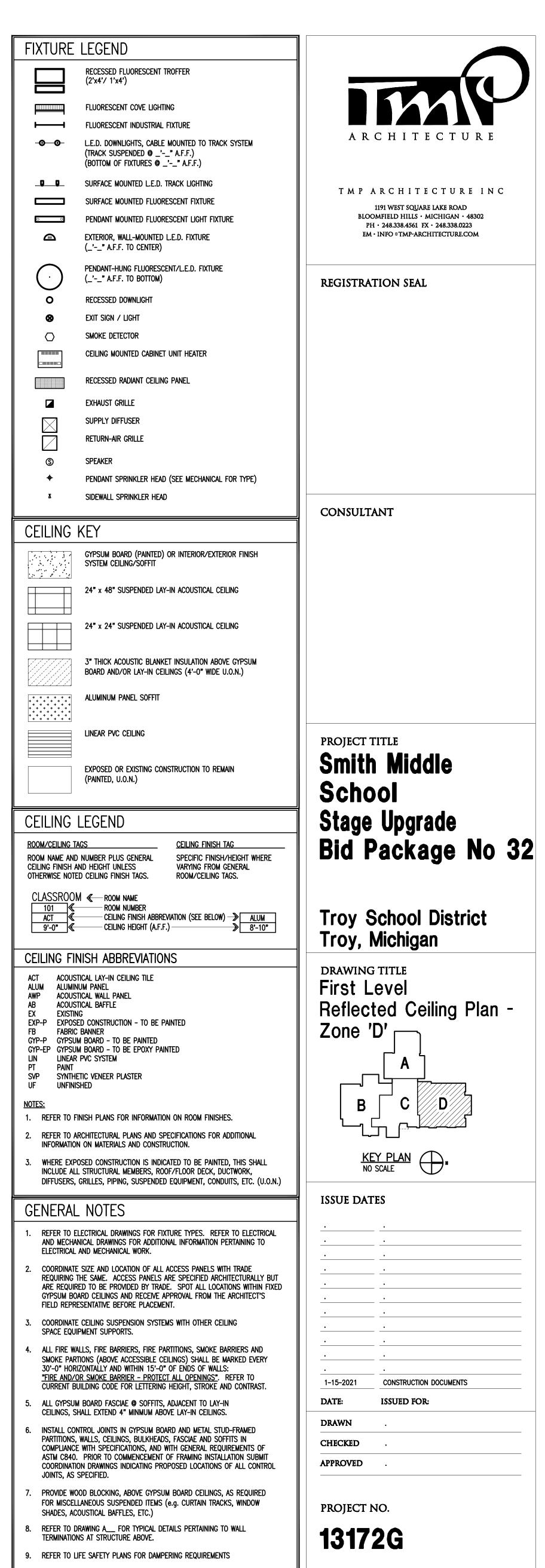
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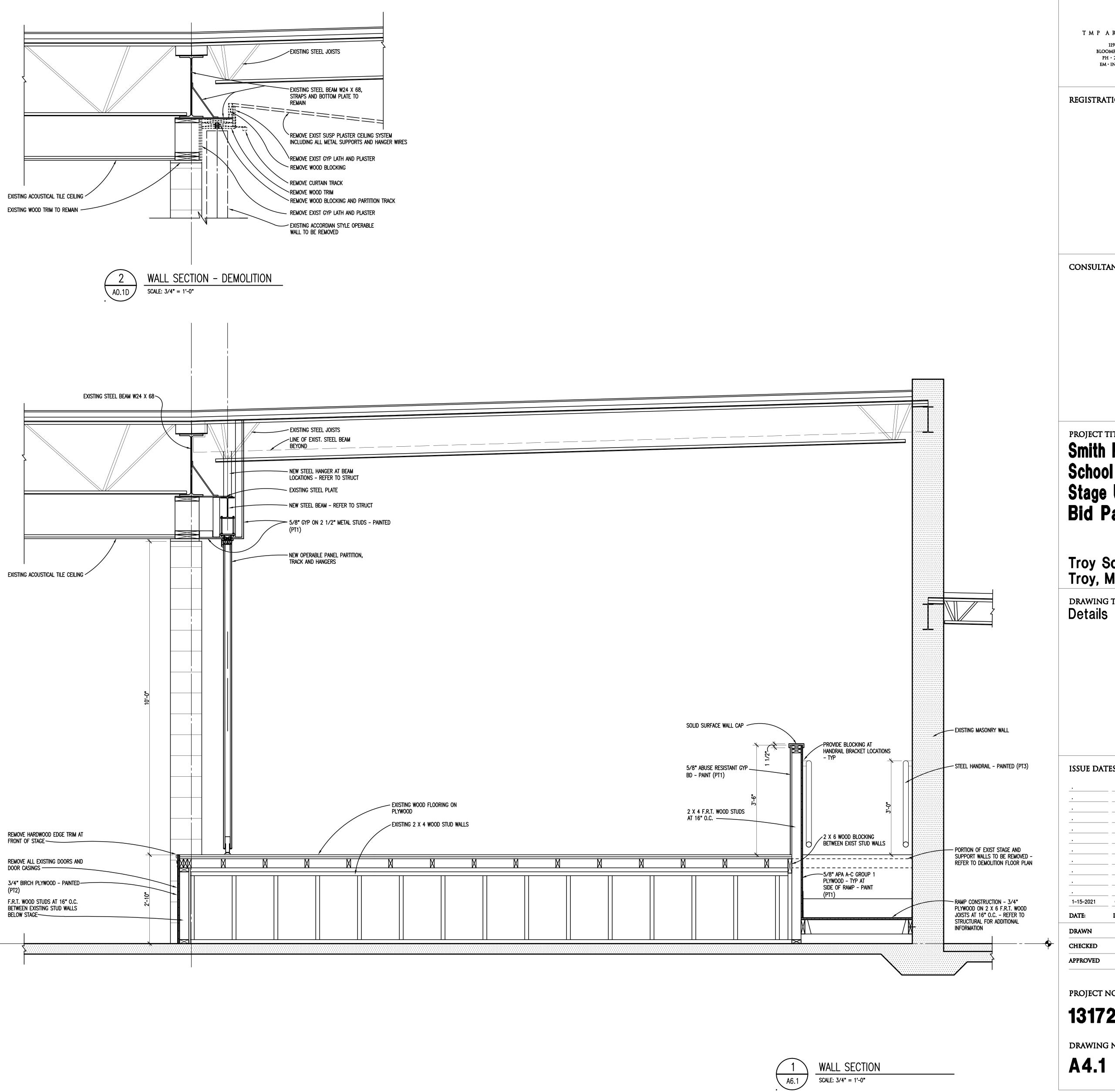


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FIRST REFLECTED CEILING PLAN - ZONE 'D'
SCALE: 1/8" = 1'-0"

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REGISTRATION SEAL

CONSULTANT

PROJECT TITLE Smith Middle School Stage Upgrade
Bid Package No 32

Troy School District Troy, Michigan

DRAWING TITLE

ISSUE DATES

CONSTRUCTION DOCUMENTS

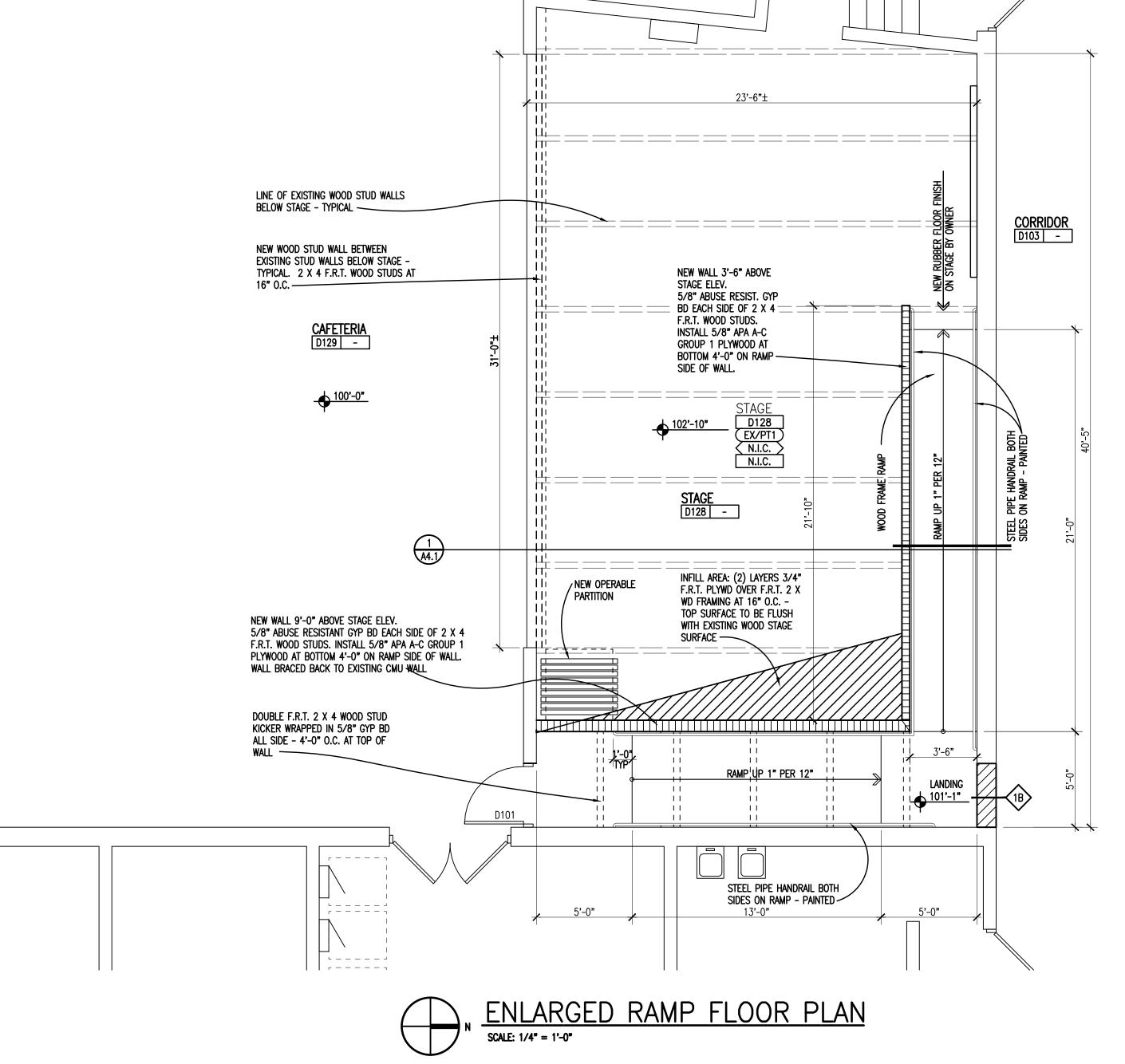
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WALL / PARTITION KEY

EXISTING WALL CONSTRUCTION

***************** METAL STUD PARTITION CONCRETE MASONRY UNIT WALL INFILL

WALL / PARTITION LEGEND

5/8" THICK GYPSUM BOARD ONE SIDE ON GALV. 3 5/8" METAL STUD FRAMING AT 16" O.C. SECURE STUDS FRAMING TO CMU WALL. STUDS FRAMING TO BE TERMINATED 10'-0" FROM THE STAGE FINISH FLOOR ELEVATION. 1B CMU WALL INFIL

1. ALL CEMENT BOARD PARTITIONS ARE 4 1/4" THICK (NOM.) UNLESS DIMENSIONED OTHERWISE.

ALL CMU WALL INFILL ARE SAME THICKNESS WITH EXISTING WALL. UNLESS DIMENSIONED OTHERWISE.

GENERAL NOTES

CONTRACTORS SHALL VERIFY ALL EXISTING BUILDING DIMENSIONS. PARTITION AND WALL LOCATIONS, AND FLOOR ELEVATIONS IN THE FIELD AND NOTIFY THE ARCHITECTS REPRESENTATIVE OF ANY DISCREPANCIES BEFORE START OF WORK.

2. FLOOR PLANS ARE DIMENSIONED TO NOMINAL WALL THICKNESS - TYPICAL. 3. DIMENSIONS FOLLOWED BY ± SHOULD BE REVIEWED AND ALL NECESSARY ADJUSTMENTS MADE PRIOR TO FABRICATION AND/OR INSTALLATION OF

AFFECTED WORK. NOTIFY ARCHITECTS REPRESENTATIVE IF DISCREPANCIES

4. INSTALL CONTROL JOINTS IN GYPSUM BOARD AND METAL STUD-FRAMED PARTITIONS, WALLS, CEILINGS, BULKHEADS, FASCIAE AND SOFFITS IN COMPLIANCE WITH SPECIFICATIONS, AND WITH GENERAL REQUIREMENTS OF ASTM C840. PRIOR TO COMMENCEMENT OF FRAMING INSTALLATION SUBMIT COORDINATION DRAWINGS INDICATING PROPOSED LOCATIONS OF ALL CONTROL JOINTS, AS SPECIFIED.

ARISE BEFORE PROCEEDING WITH THE WORK.

VERIFY QUANTITY, SIZE, AND LOCATION OF ALL FLOOR, ROOF, AND WALL OPENINGS FOR MECHANICAL AND ELECTRICAL WORK WITH THE APPROPRIATE TRADE. PROVIDE ALL OPENINGS SHOWN OR REQUIRED FOR THE COMPLETION OF THE WORK. PROVIDE ALL LINTELS REQUIRED FOR THESE OPENINGS PER SPECIFICATIONS.

6. VERIFY ALL DIMENSIONS IN FIELD.

7. PROVIDE WOOD BLOCKING WITHIN STUD WALLS FOR WALL MOUNTED ITEMS i.e. GRAB BARS, TOWEL DISPENSERS, PENCIL SHARPENERS, WALL STOPS, ACCORDIAN PARTITION JAMBS, ETC. REFER ALSO TO A9._ SERIES AND A6._ SERIES DRAWINGS.

ARCHITECTURE

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REGISTRATION SEAL

CONSULTANT

PROJECT TITLE

Smith Middle

PATCHING NOTES

1. REFER TO DEMOLITION PLANS FOR ADDITIONAL PATCHING NOTES.

FOR ALL FLOOR SURFACES RECEIVING NEW FLOOR FINISHES, PREPARE SUBSTRATE BY PROVIDING LEVELING AND PATCHING COMPOUNDS RECOMMENDED BY FINISH FLOORING MANUFACTURERS. CONTRACTOR'S BASE BID PROPOSAL SHALL ASSUME THAT ALL AREAS, INDICATED TO RECEIVE NEW FINISHES, WILL REQUIRE FLOOR PREPARATION.

PATCH AND REPAIR ALL FLOOR AND WALL SURFACES LEFT DAMAGED OR INCOMPLETE FROM REMOVAL OF EXISTING PARTITIONS, MILLWORK, CASEWORK, CHALKBOARDS, TACKBOARDS, DISPLAY CASES OR OTHER FIXED EQUIPMENT WITH MATERIALS TO MATCH EXISTING, AS ACCEPTABLE TO THE ARCHITECT.

MATCH EXISTING MASONRY COURSING ADJACENT IN EACH AREA AND TOOTH NEW WORK INTO EXISTING, UNLESS OTHERWISE INDICATED.

AT EXISTING FLOOR FINISHES TO REMAIN, THAT BECOME SUBSTRATES FOR NEW FLOOR FINISHES, PATCH AND FILL EXISTING AS REQUIRED TO PREPARE FOR NEW FLOOR FINISH UNTIL ACCEPTABLE TO NEW FLOOR FINISH CONTRACTOR.

FINISH LEGEND

ROOM NAME AND NUMBER PLUS GENERAL ROOM FINISH INFORMATION. FINISH TAGS SHALL APPLY TO ALL LIKE MATERIALS WITHIN A ROOM (U.O.N.).

Finish Legend is general. Refer to specifications for SPECIFIC FINISH INFORMATION. MULTIPLE FINISH TYPES ARE DENOTED BY NUMBER FOLLOWING

CLASSROOM ← ROOM NAME

101 ← ROOM NUMBER

PT ← WALL FINISH (\$ -room number -WALL FINISH (SEE BELOW)-RB X -BASE (SEE BELOW) ------FLOOR FINISH (SEE BELOW)

DENOTES PATTERN DETAIL —

REFER TO "SPECIFIC NOTES" BELOW -PL ——PLASTIC LAMINATE TYPE/COLOR (TAG APPLIES TO ALL CABINETS AND/OR COUNTERTOPS WITHIN THAT SPACE, U.O.N.)

WALL FINISH ABBREVIATIONS

PT PAINT

BASE FINISH ABBREVIATIONS

NIC NOT IN CONTRACT

FLOOR FINISH ABBREVIATIONS

NIC NOT IN CONTRACT

GENERAL NOTES

REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH

2. AT CERAMIC TILE LOCATIONS, INSTALLER TO USE APPROPRIATE TROWEL TO ACCOMMODATE DIFFERENT TILE THICKNESSES.

3. REFER TO STRUCTURAL DRAWINGS FOR DEPRESSED SLAB LOCATIONS, INDICATIVE OF MUDSET BEDS AT CERAMIC TILE. SLOPE MUDSET TO DRAINS. REFER TO ARCHITECTURAL DRAWINGS FOR DRAIN ELEVATIONS AND LOCATIONS.

4. PROVIDE ANTI-FRACTURE MEMBRANE AT ALL THINSET CERAMIC FLOOR TILE LOCATIONS, UNLESS OTHERWISE NOTED.

5. PROVIDE RESILIENT BASE AT TOE KICK OF ALL CASEWORK AND BEHIND ALL MOVABLE EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM.

6. ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC.) AND ELECTRICAL EQUIPMENT (PANELS, ETC.) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MÉCHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS.

7. REFER TO SPEC. SECTION 012300 FOR COMPLETE LIST AND DESCRIPTION OF ALTERNATES.

8. WHERE REMOVAL OR MODIFICATION TO A FINISH MATERIAL IS SHOWN, BUT NEW FINISHES ARE NOT SCHEDULED, PATCH AND REPAIR TO MATCH EXISTING FINISH CONDITION AS REQUIRED.

9. PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILIAR FLOORING MATERIALS AT VERTICAL AND/OR HORIZONTAL APPLICATIONS.

School Stage Upgrade
Bid Package No 32

Troy School District Troy, Michigan

DRAWING TITLE Enlarged Floor Plan

ISSUE DATES

1-15-2021 CONSTRUCTION DOCUMENTS

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PROJECT NO.

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DRAWING NO. A6.1

STRUCTURAL GENERAL NOTES

- 1. THIS BUILDING HAS BEEN DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE, 2015 EDITION.
- 2. THE OWNER WILL EMPLOY QUALIFIED SPECIAL INSPECTORS TO PERFORM INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE MICHIGAN BUILDING CODE, EXCEPT AS NOTED BELOW. SPECIAL INSPECTIONS WILL BE PERFORMED FOR THE FOLLOWING:
- I. STEEL SPECIAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH AISC B. WOOD.
- 3. WHEN "PROFESSIONAL ENGINEER" IS REFERRED TO IN THE FOLLOWING NOTES, IT DENOTES A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF
- MICHIGAN, QUALIFIED TO PERFORM THE WORK. 4. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH THE EXISTING

CONDITIONS, THE OWNERS REQUIREMENTS FOR ACCESS TO THE SITE AND

- CONTINUED OPERATIONS DURING CONSTRUCTION. 5. THE PLAN, DETAIL DIMENSIONS & ELEVATIONS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM AVAILABLE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SUCH DIMENSIONS, ELEVATIONS & DETAILS AS
- 6. THE CONTRACTOR SHALL SUBMIT STRUCTURAL STEEL SHOP DRAWINGS PRIOR TO FABRICATION. THE CONTRACTOR SHALL ALSO SUBMIT MATERIAL REQUIREMENTS AND

NECESSARY AND MAKE APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR

7. THE STRUCTURE SHALL BE CONSIDERED TO BE IN AN UNSTABLE CONDITION UNTIL ALL FLOOR, WALL AND ROOF STRUCTURES ARE COMPLETED. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR STABILITY AND TO RESIST LATERAL LOADS DURING ERECTION.

CONCRETE MIX DESIGNS. ALLOW (2) WEEKS FOR ENGINEER REVIEW.

- 8. ALL NON LOAD BEARING WALLS, EXCEPT INDICATED SHEAR WALLS, SHALL BE CONSTRUCTED TO ALLOW FOR VERTICAL DEFLECTION OF THE STRUCTURE ABOVE.
- **DIVISION 2 DEMOLITION/SHORING**

ORDERING OF MATERIAL.

- 1. CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING WHERE REQUIRED DURING CONSTRUCTION. SHORING SHALL BE DESIGNED & DETAILED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER. SHORING PROCEDURES, DESIGNS AND DETAILS SHALL BE SUBMITTED FOR REVIEW PRIOR TO COMMENCEMENT OF WORK, ALLOW (2) WEEKS FOR ENGINEER TO REVIEW.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ERECTION PROCEDURE AND SEQUENCING AND TO SUBMIT WRITTEN PROCEDURES TO ENSURE THE SAFETY OF THE STRUCTURE AND IT'S COMPONENTS DURING ERECTION.
- 3. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DEMOLITION. IF CONDITIONS EXIST THAT ARE DIFFERENT FROM WHAT IS INDICATED ON THE DRAWINGS, NOTIFY ARCHITECT FOR DIRECTION BEFORE PROCEEDING.
- 4. DUE CARE MUST BE TAKEN NOT TO UNDERMINE OR DISTURB EXISTING SOIL AND FOUNDATIONS WHEN EXCAVATING ADJACENT TO EXISTING FOUNDATIONS. FIELD VERIFY THE DEPTH AND WIDTH OF ANY EXISTING FOOTINGS & NOTIFY ARCHITECT OF ANY INTERFERENCE'S WITH NEW WORK.

DIVISION 5 - STRUCTURAL STEEL

- 1. THE LATEST REVISION OF THE FOLLOWING CODES GOVERN THE DESIGN, DETAILING, FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL.
- A. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) AISC 360, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
- B. AISC 303, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. 2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM MATERIAL
- SPECIFICATIONS: A. W AND WT SHAPES: ASTM A992, GRADE 50 (Fy = 50 KSI).
- B. MISCELLANEOUS SHAPES AND PLATES: ASTM A36 (Fy = 36 KSI). C. PIPE: ASTM A53, GRADE B, TYPE E OR S (Fy = 35 KSI). D. HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE B (Fy = 46 KSI). E. ALL COLUMN ANCHOR RODS SHALL BE ASTM F1554 (Fy = 36 KSI).
- 3. ALL WELDING SHALL BE PERFORMED USING THE ELECTRIC ARC METHOD IN ACCORDANCE WITH THE LATEST REVISION OF THE AMERICAN WELDING SOCIETY (AWS) D1.1 "STRUCTURAL WELDING CODE". E70XX ELECTRODES CONFORMING TO AWS A5.1 OR A5.5 SHALL BE USED FOR SHIELDED METAL ARC METHOD & FX7-ECXX FLUX -ELECTRODE COMBINATION CONFORMING TO AWS A5.17 FOR SUBMERGED ARC
- 4. ALL BOLTS SHALL BE 3/4" DIAMETER ASTM F3125 GRADE A325 TYPE N BOLTS. ALL BOLTED CONNECTIONS SHALL BE SNUG-TIGHT BEARING TYPE BOLTS UNLESS NOTED OTHERWISE.
- 5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING SIZES, DESIGN VALUES, MATERIALS, DIMENSIONS AND CONNECTIONS.
- 6. ALL CONNECTIONS NOT SPECIFICALLY DETAILED, SHALL BE DESIGNED AND DETAILED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER. DETAILING SHALL BE PERFORMED USING RATIONAL ENGINEERING DESIGN AND STANDARD PRACTICE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE GENERAL DETAILS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND DO NOT INDICATE THE REQUIRED NUMBER OF BOLTS OR WELD SIZES, UNLESS SPECIFICALLY NOTED.
- 7. PROVIDE "SLIP-CRITICAL" CONNECTIONS AT BRACING, WHERE BOLTS ARE IN TENSION AND AT MOMENT CONNECTIONS.
- 8. ALL BEAM CONNECTIONS ARE TO CONFORM TO AISC STANDARD TWO ANGLE WEB CONNECTIONS CAPABLE OF SUPPORTING 66% OF THE TOTAL UNIFORM LOAD CAPACITY OF THE BEAM OR FOR LOADS INDICATED ON DRAWING. NO CONNECTION SHALL CONSIST OF LESS THAN TWO 3/4" DIAMETER BOLTS OR A WELD DEVELOPING LESS THAN 10 KIPS.
- 9. DESIGN HORIZONTAL AND VERTICAL BRACING END CONNECTIONS FOR LOADS INDICATED ON THE DRAWINGS OR 50% OF THE TENSILE CAPACITY OF THE MEMBER WHICHEVER IS GREATER.
- 10. ALL FIELD CONNECTIONS SHALL BE BOLTED UNLESS NOTED OTHERWISE. FIELD WELDING IS NOT ALLOWED EXCEPT WHERE SPECIFICALLY INDICATED OR APPROVED. 11. PROVIDE 3/4" DIAMETER SHOULDER BOLTS WITH LOCK WASHERS AT ALL SLOTTED
- CONNECTIONS OF WIND COLUMNS OR AS NOTED. 12. ALL SHOP AND FIELD WELDS SHALL BE VISUALLY INSPECTED PER AWS D1.1. ALL DEFICIENT OR NON CONFORMING ITEMS SHALL BE REPORTED TO THE ENGINEER WHO WILL DETERMINE THE CORRECTIVE ACTION REQUIRED.
- 13. ALL BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER UP. PROVIDE CAMBERS AS INDICATED ON THE DRAWINGS.
- 14. GROUT REQUIRED UNDER COLUMN BASE PLATES AS SHOWN IN THE DETAILS SHALL BE A STANDARD NON-SHRINK GROUT SUCH AS "MASTERFLOW 100" BY MASTER BUILDERS.
- 15. PRIME PAINT ALL STRUCTURAL STEEL WITH FABRICATOR'S STANDARD LEAD AND CHROMATE- FREE, NONASPHALTIC, RUST-INHIBITING PRIMER COMPLYING WITH MASTER PAINTER INSTITUTE (MPI) #79. APPLY PRIMER ACCORDING TO THE PROVIDE A MINIMUM DRY FILM THICKNESS OF 1.5 MILS. USE PRIMING METHODS THAT RESULT IN FULL COVERAGE OF JOINTS, CORNERS, EDGES, AND EXPOSED SURFACES. TOUCH-UP DAMAGED OR MISSING PAINT AFTER STEEL ERECTION IS COMPLETE. OMIT PAINT AT: HOLES FOR SLIP CRITICAL CONNECTIONS, AT STEEL TO BE FIRE PROOFED, AT STEEL ENCASED IN CONCRETE AND ON THE TOP FLANGE OF STEEL BEAMS WITH SHEAR CONNECTIONS.
- 16. PROVIDE AND HAVE IN PLACE ADEQUATE LATERAL BRACING AND VERTICAL SUPPORTS FOR THE SAFE ERECTION AND TRUE ALIGNMENT OF THE STRUCTURAL STEEL. THIS CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR THE SAFE ERECTION AND TEMPORARY BRACING OF STRUCTURAL STEEL.
- 17. VERIFY NUMBER AND SIZE OF OPENINGS IN ROOF, WALLS AND FLOOR WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. SEE DETAILS, AND SPECIFICATIONS, FOR STRUCTURAL REQUIREMENTS. VERIFY ALL INFORMATION WITH THE APPROPRIATE CONTRACTOR.
- 18. ALL DIMENSIONS RELATED TO STRUCTURAL STEEL USED TO SUPPORT EQUIPMENT OR FRAME OPENINGS SHALL BE VERIFIED WITH CERTIFIED AND APPROVED SHOP DRAWINGS OF PURCHASED EQUIPMENT PRIOR TO DETAILING AND FABRICATION.
- 19. PROVIDE L3x3x1/4 SHELF ANGLES AT TOPS OF COLUMNS AS REQUIRED TO SUPPORT ROOF DECK.
- 20. ALL EDGES OF METAL DECK SHALL BE SUPPORTED AT A CHANGE IN DECK SPAN WHETHER SHOWN ON DRAWINGS OR NOT. PROVIDE TUBE STEEL OR A DOUBLE ANGLE BETWEEN JOIST OR STRUCTURAL STEEL AND METAL DECK.
- 21. ALL FREE EDGES OF METAL DECK SHALL BE SUPPORTED WITH AN EDGE ANGLE L3x3x1/4 OR OTHER SUITABLE SUPPORT. THIS SHALL BE PROVIDED WHETHER SHOWN ON DRAWINGS OR NOT.
- 22. ALL BEAMS, JOISTS, OR LINTELS BEARING ON MASONRY WALLS SHALL HAVE BEARING PLATES WITH ANCHOR BOLTS. IF NOT NOTED ON PLAN, SEE TYPICAL DETAILS.
- 23. ALL WF BEAMS SUPPORTING MASONRY AND WITH SPANS GREATER THAN 6'-0" SHALL HAVE 1/2" DIAMETER BY 6" LONG HEADED CONCRETE ANCHORS SPACED AT 2'-0" O.C. WELDED TO THE TOP FLANGE.
- 24. ALL STEEL IN EXTERIOR MASONRY WALLS IS TO BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A-193.

DIVISION 6 - WOOD FRAMING

- 1. THE LATEST REVISION OF THE FOLLOWING CODES & STANDARDS GOVERN THE DESIGN, MANUFACTURING AND CONSTRUCTION OF WOOD FRAMING:
- A. AMERICAN WOOD COUNCIL (AWC) NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION, ANSI/AWC NDS.
- B. IBC CHAPTER 20, WOOD. C. AWC WCD1, DETAILS FOR CONVENTIONAL WOOD FRAMED CONSTRUCTION. D. AMERICAN PLYWOOD ASSOCIATION (APA) PANEL DESIGN SPECIFICATION.
- 2. WOOD FRAMING SIZES, FIRESTOPS, ANCHORAGE, AND CONNECTORS NOT SHOWN ON THE DOCUMENTS SHALL BE PER THE MINIMUM REQUIREMENTS IDENTIFIED IN IBC CHAPTER 23, WOOD.
- 3. FLOOR SHEATHING SHALL BE 3/4" THICK T & G EXPOSURE 1, PANEL INDEX 48/24 CONFORMING TO U.S. PS-1 AND STAMPED WITH DFPA GRADE-TRADEMARK.
- 1. FLOOR SHEATHING PANELS SHALL BE NAILED TO SUPPORTS WITH 10d COMMON I. NAIL SPACING SHALL BE 6" O.C. AT PANEL EDGES & 10" O.C. AT INTERMEDIATE SUPPORTS.
- 4. WALL SHEATHING SHALL BE 5/8" THICK, APA RATED SHEATHING, EXPOSURE 1, PANEL INDEX 32/16 AND STAMPED WITH DFPA GRADE-TRADEMARK.
- A. STANDARD WALL SHEATHING PANELS SHALL BE NAILED TO SUPPORTS WITH 10d COMMON NAILS. B. NAIL SPACING SHALL BE 3" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE
- 5. ALL STRUCTURAL LUMBER SHALL BE OF THE FOLLOWING MINIMUM GRADES AND ALLOWABLE STRESSES OR EQUIVALENT AS PER NDS. MOISTURE CONTENT IS TO BE
- A. STUDS HEM FIR STRUCTURAL GRADE NO. 2 OR BETTER B. BEAMS 2"-4" THICK HEM FIR STRUCTURAL GRADE NO. 2 OR BETTER C. POSTS SAME AS STUDS D. PLATE STOCK SAME AS STUDS
- 6. ALL ENGINEERED WOOD PRODUCTS SHALL BE MANUFACTURED BY TRUS JOIST A
- WEYERHAEUSER COMPANY (OR APPROVED EQUAL) AS FOLLOWS: A. LAMINATED VERTICAL LUMBER (LVL), MINIMUM PROPERTIES:
- I. E = 1,900,000 PSI II. Fb = 2600 PSI
- III. Fv = 285 PSI 1. PARALLEL STAND LUMBER (PSL), MINIMUM PROPERTIES: I. E = 2,000,000 PSI

SHALL BE TREATED LUMBER.

SUPPORTS.

- II. Fb = 2900 PSI III. Fv = 290 PSI
- AGENCY. 8. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY OR EXPOSED TO WEATHER
- 9. FRAMED OPENING: DOUBLE STUD FOR OPENINGS LESS THAN 4' WIDE, TRIPLE STUD FOR OPENINGS 4' WIDE OR MORE.

7. ALL LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED TESTING

- 10. THE NUMBER OF WALL STUDS AT BEARING POINTS OF 2X MEMBER BEAMS SHALL EXCEED THE NUMBER OF MEMBERS IN THE BEAM BY ONE. THE CENTERLINE OF THE BEAM SHALL BE THE CENTERLINE OF THE SUPPORTING WALL STUDS (UNLESS NOTED OTHERWISE ON PLAN). ALL MICRO-LAM BEAMS SHALL HAVE 3 STUDS (MINIMUM). CONTINUE THESE STUDS TO THE FOUNDATION WITH INTERMEDIATE SUPPORTS THROUGH FLOOR, BETWEEN LOWER WALL TOP PLATE AND UPPER WALL BOTTOM
- 11. ALL FLUSH BEAMS SHALL BE SUPPORTED BY APPROVED HANGER.
- MANUFACTURER'S WRITTEN INSTRUCTIONS AND AT RATE RECOMMENDED BY SSPC TO 12. WHERE NOTED ON DETAILS, CONTRACTOR SHALL PROVIDE CONNECTORS FOR WOOD CONSTRUCTION AS MANUFACTURED BY SIMPSON STRONG TIE CONNECTORS. CONTRACTOR SHALL VERIFY TYPE INDICATED ON DRAWINGS. ANY SUBSTITUTION SHALL BE APPROVED BY THE ENGINEER. WHERE A TYPE IS NOT INDICATED OR TO BE PROVIDED BY THE TRUSS MANUFACTURER, THE CONTRACTOR SHALL SUBMIT PROPOSED CONNECTOR FOR APPROVAL.
 - 13. ALL NAILS FOR NAILING OF STRUCTURAL LUMBER SHALL BE COMMON NAILS. ALL NAILING SHALL COMPLY WITH THE RECOMMENDED FASTENING SCHEDULE (MBC TABLE 2304.10.1) UNLESS NOTED OTHERWISE.
 - 14. ROOF FRAMING LAYOUTS ARE PROVIDED TO ILLUSTRATE CONDITIONS OF CONSTRUCTION AND DO NOT NECESSARILY INDICATE SPECIFIC QUANTITIES OF MATERIALS OR COMPONENTS REQUIRED FOR CONSTRUCTION.
 - 15. CONSTRUCTION BRACING SHALL BE PROVIDED BY THE CONTRACTOR TO MAINTAIN THE BUILDING PLUMB AND TRUE. THIS BRACING SHALL REMAIN UNTIL THE SPECIFIED SHEAR WALLS ARE TOTALLY INSTALLED.

DESIGN CRITERIA MICHIGAN BUILDING CODE 2015 (ASCE 7-10)

ROOF DEAD LOADS EPDM INSULATION GYPSUM ROOF DECK

STRUCTURAL STEEL

MINIMUM LOAD

IMPORTANCE FACTOR

SEISMIC DESIGN CATEGORY

SNOW LOADS

RISK CATEGORY III.

8 PSF 2 PSF 4 PSF

CEILING SAP MECHANICAL AND ELECTRICAL MISCELLANEOUS **ROOF LIVE LOADS**

20 PSF

 $P_g = 25 PSF$ GROUND SNOW LOAD SNOW EXPOSURE FACTOR $C_{\rm e} = 1.0$ THERMAL FACTOR $P_f = 20 PSF (TYPICAL ROOF)$ FLAT USE SNOW SNOW DRIFT PER ASCE 7

WIND LOADS BASIC WIND SPEED 120 MPH (3 SEC GUST) EXPOSURE CATEGORY COMPONENTS AND CLADDING PER ASCE 7

SEISMIC DESIGN DATA SITE CLASS RESPONSE COEFFICIENTS $SD_S = 0.093$

 $SD_1 = 0.072$

ABBREVIATIONS

@	AT
ADD'L	ADDITIONAL
B.C.	BOTTOM CHORD
B.O.	BOTTOM OF
B.O.D.	BOTTOM OF DECK
B.O.F.	BOTTOM OF FOOTING
B.O.S.	BOTTOM OF STEEL
В.О.З. В.О.Т.	BOTTOM OF TRUSS
B.S.	BOTH SIDES
BM	BEAM
BOTT	BOTTOM
C.L.	CENTER LINE
CJ	CONTROL JOINT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CSJ	CONSTRUCTION JOINT
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DWG	DRAWING
EA	EACH
EQ	EQUAL
EX	EXISTING
F.S.	FAR SIDE
F.V.	FIELD VERIFY
FIN	FINISH
FLG	FLANGE
FLR	FLOOR
FDN	FOUNDATION
FT	FOOT
FTG	FOOTING
GA	GAGE
GA G.L.	GIRT LINE
H.P.	HIGH POINT
HORIZ	HORIZONTAL
k	KIPS
L.P.	LOW POINT
LL	LIVE LOAD
LN	LINE
MAX	MAXIMUM
MIN	MINIMUM
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
NO	NUMBER
O.C.	ON CENTER
PC	PIECE
PL	PLATE
PLCS	PLACES
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
SECT	SECTION
SIM	SIMILAR
SPA	SPACES
STD	STANDARD
T.O.	TOP OF
T.O.C.	TOP OF CONCRETE
T.O.F.	TOP OF FOOTING
T.O.M.	TOP OF MASONRY
T.O.S.	TOP OF STEEL
TYP	TYPICAL

UNLESS NOTED OTHERWISE

WELDED WIRE REINFORCMENT

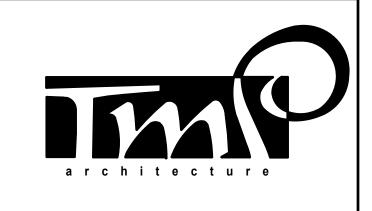
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WORK POINT

U.N.O.

VERT

W.P.



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REGISTRATION SEAL

CONSULTANT



PROJECT TITLE **Smith Middle** School Stage Upgrade
Bid Package No 32

Troy School District Troy, Michigan

DRAWING TITLE Structural General Notes



ISSUE DATES	
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CONSTRUCTION DOCUMENTS

CHECKED APPROVED E. MANNOR

DRAWN

PROJECT NO.

13172G



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Troy School District Troy, Michigan

Foundation Plan Zone 'D'



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I-15-2021 CONSTRUCTION DOCUMENTS

DRAWN D. BART

CHECKED J. BOUWENS

APPROVED E. MANNOR

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PROJECT NO.

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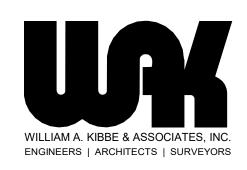


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Roof Level Framing Plan - Zone 'D'



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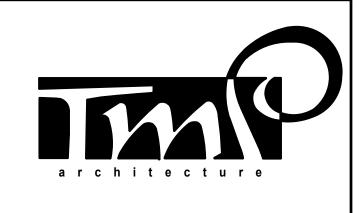
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10 MIL VAPOR BARRIER

4" COMPACTED ___ ENGINEERED FILL



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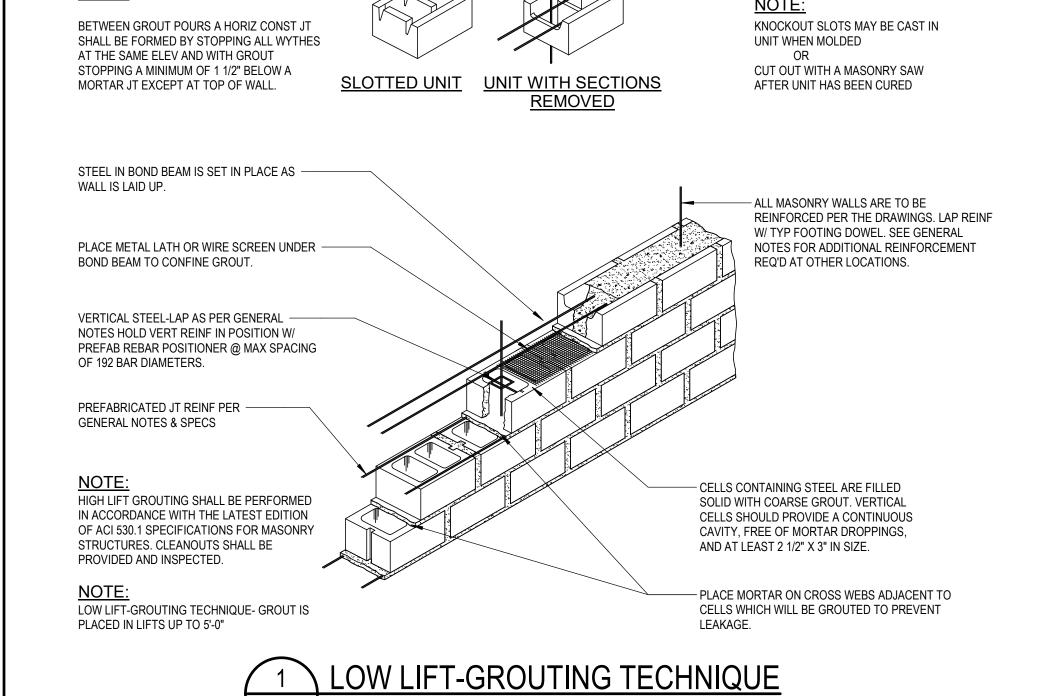
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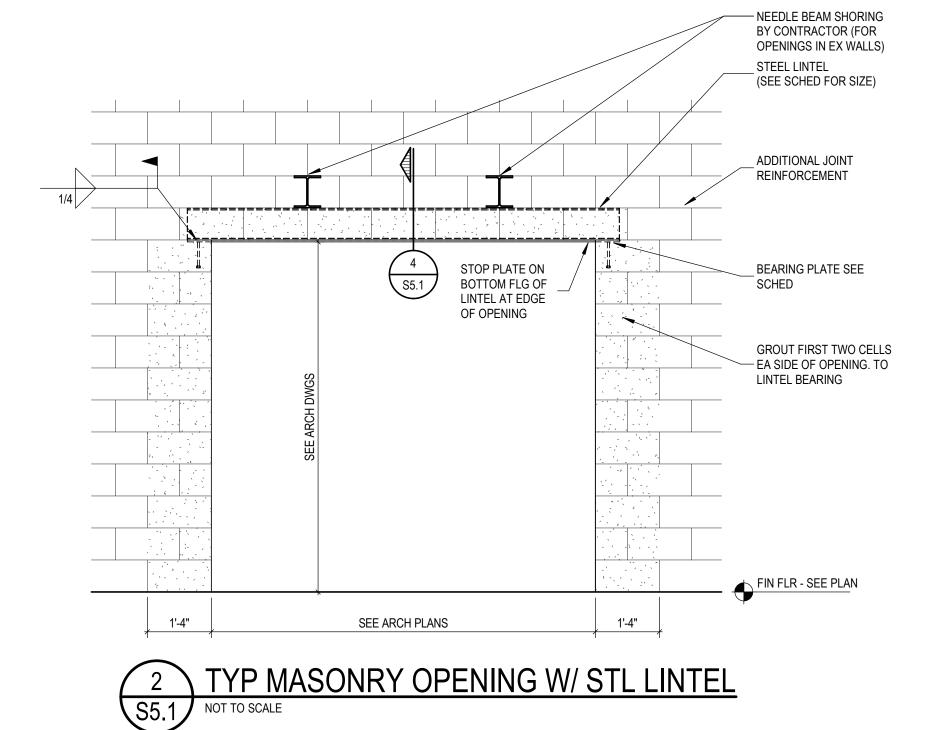
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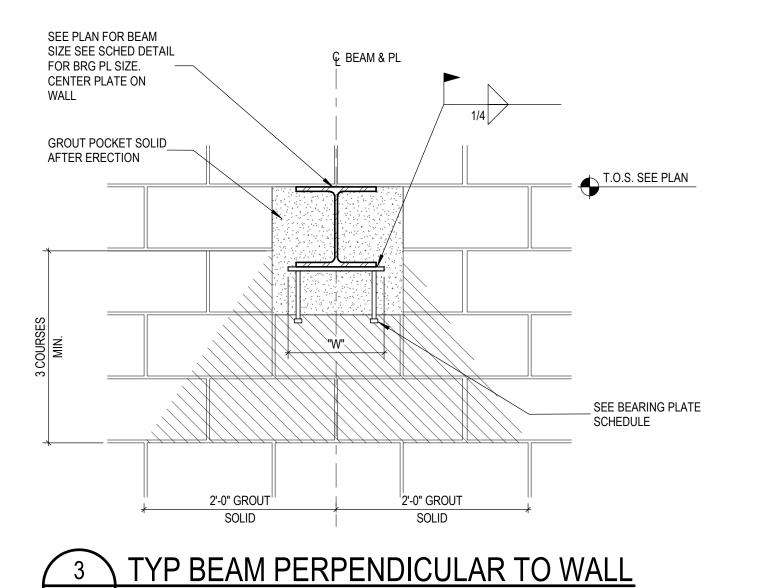
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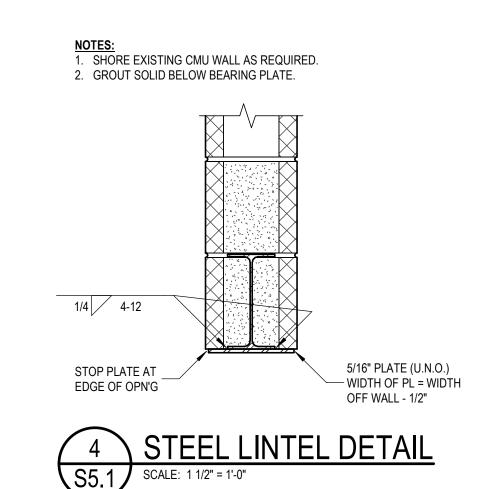
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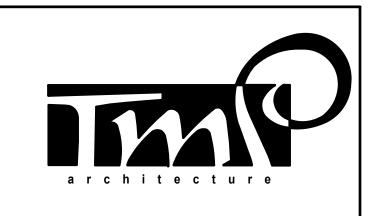
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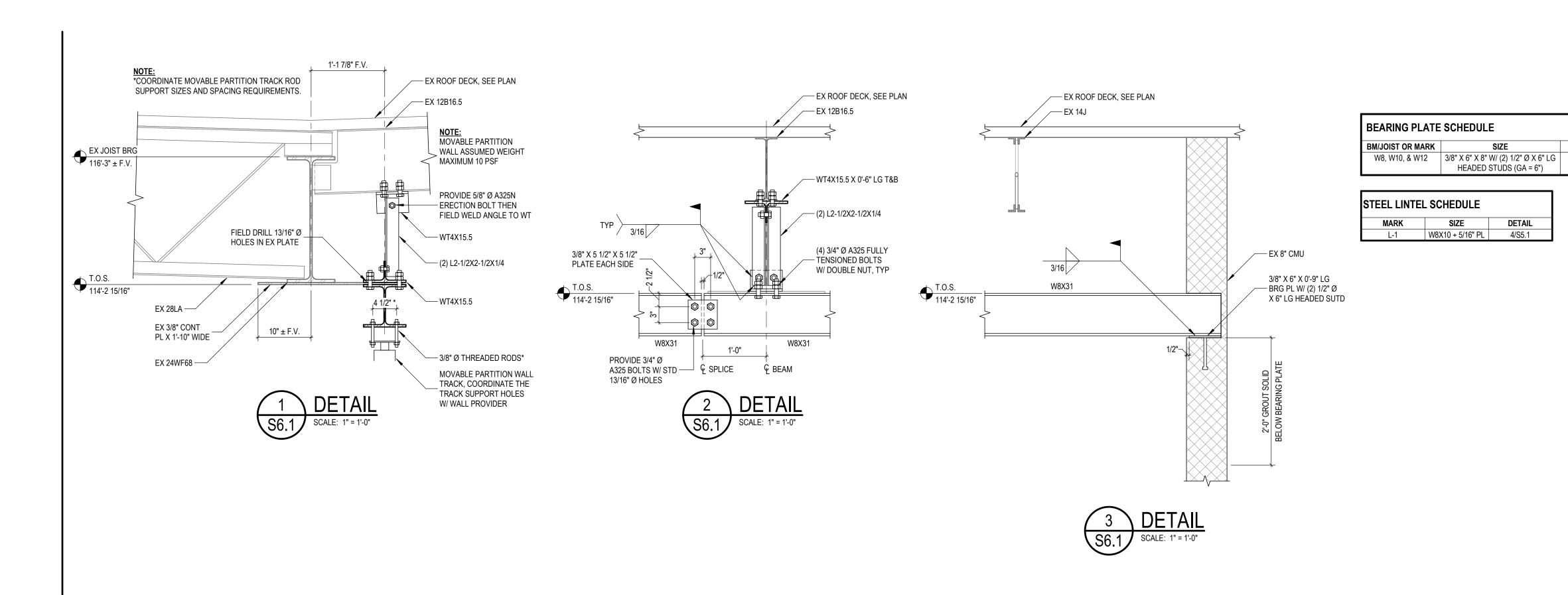
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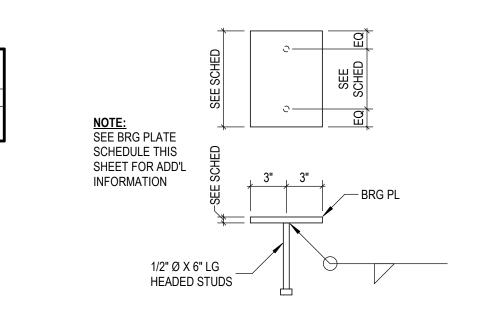
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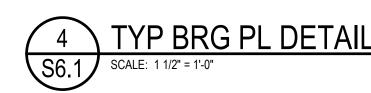
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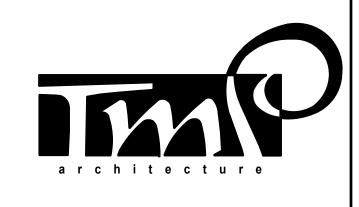






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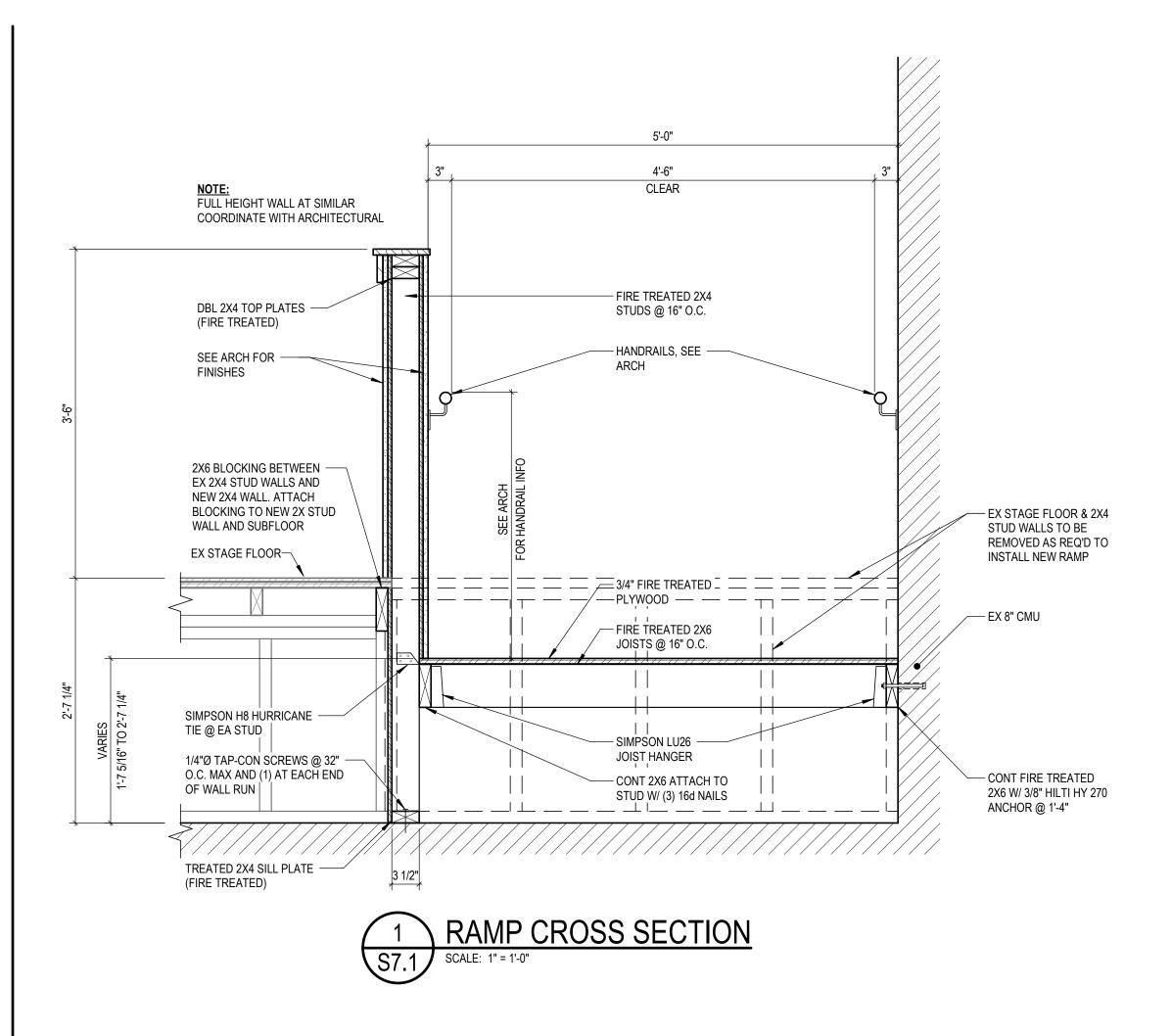
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MECHANICAL ABBREVIATION LIST MECHANICAL SYMBOL LIST **ABBREVIATION** PIPING SYMBOLS **DUCTWORK SYMBOLS DESCRIPTION** <u>ABBREVIATION</u> <u>DESCRIPTION</u> FLOOR DRAIN COMPRESSED AIR PACKAGED AIR CONDITIONING UNIT **DESCRIPTION** <u>SYMBOL</u> **DESCRIPTION** COMPRESSED AIR (SPECIFIC PSIG) FUNNEL FLOOR DRAIN PARALLEL BLADE DAMPER AIR VENT – AUTOMATIC AIR TERMINAL UNIT AUTOMATIC AIR VENT FIRE HYDRANT PUMPED CONDENSATE AIR COOLED CONDENSER FIRE HOSE CABINET PROCESS COOLING WATER AIR VENT - MANUAL AIR TERMINAL UNIT WITH HEATING COIL AIR COOLED CONDENSING UNIT FIRE HOSE RACK PROCESS COOLING WATER RETURN ACCESS DOOR FIRE HOSE VALVE PROCESS COOLING WATER SUPPLY BFP BACKFLOW PREVENTER AREA DRAIN FULL LOAD AMPS PRESSURE DROP (FEET OF WATER) VENTURI AIR TERMINAL UNIT ——— CATCH BASIN AIR EXTRACTOR FI OOR PERIMETER HEAT ABOVE FINISHED FLOOR FLOW METER PERIMETER HEAT RETURN **├** VENTURI AIR TERMINAL UNIT WITH HEATING COIL AIR HANDLING UNIT FLOW MEASURING STATION PERIMETER HEAT SUPPLY CLEAN OUT - IN FLOOR ALTERNATE FEET PER MINUTE FIRE PUMP PARTS PER MILLION AMPERE CLEAN OUT - FLANGE DAMPER - HORIZONTAL FIRE (EXISTING, NEW) AIR PRESSURE DROP FAN POWERED (AIR) TERMINAL UNIT **PRESS** PRESSURE PRESSURE REDUCING VALVE → DIRECTION OF FLOW FLOOR SINK DAMPER - HORIZONTAL FIRE / SMOKE (EXISTING, NEW) AMERICAN SOCIETY OF HEATING, REFRIGERATION FOOD SERVICE EQUIPMENT CONTRACTOR **ASHRAE** PUMPED SANITARY DIRECTION OF PITCH - DOWN AND AIR-CONDITIONING ENGINEERS PUMPED STORM FINNED TUBE RADIATION AUTOMATIC SPRINKLER RISER POUNDS PER SQUARE INCH FINNED TUBE RADIATION DAMPER - SMOKE (EXISTING, NEW) POUNDS PER SQUARE INCH - ABSOLUTE AIR TRANSFER DUCT FACE VELOCITY FIRE PROTECTION - SIAMESE CONNECTION - FREE STANDING AUXILIARY POUNDS PER SQUARE INCH - GAUGE DAMPER - VERTICAL FIRE (EXISTING, NEW) NATURAL GAS ACID VENT PURIFIED WATER FIRE PROTECTION - SIAMESE CONNECTION - WALL MOUNTED ACID VENT THROUGH ROOF PURIFIED WATER RETURN AVTR GAUGE DAMPER - VERTICAL FIRE / SMOKE (EXISTING, NEW) FIRE PROTECTION - SPRINKLER HEAD, CONCEALED ACID WASTE GALLON PURIFIED WATER SUPPLY GRAVITY RELIEF HOOD FIRE PROTECTION - SPRINKLER HEAD, PENDANT DAMPER - BACK DRAFT **BUILDING AUTOMATION SYSTEM** GALLONS PER HOUR RELOCATED BLOWER COIL UNIT GALLONS PER MINUTE RETURN GRILLE OR REGISTER FIRE PROTECTION - SPRINKLER HEAD, UPRIGHT BACKDRAFT DAMPER GREASE SANITARY WASTE RETURN AIR DAMPER - MOTORIZED FIRE PROTECTION - SPRINKLER HEAD, SIDEWALL RETURN AIR TEMPERATURE BELOW FINISHED FLOOR BACKFLOW PREVENTER HYDROGEN RAIN CONDUCTOR **−−−**∃**0** FLOOR DRAIN DAMPER - VOLUME (MANUALLY ADJUSTABLE) BRAKE HORSEPOWER HOSE BIBB RADIANT CEILING PANEL FLOOR DRAIN — ELEVATION BOTTOM OF DUCT HEATING COIL ROOF DRAIN DIFFUSER - BLANK OFF HOT DECK REQUIRED BOTTOM OF PIPE FLOOR DRAIN - FUNNEL HIGH EFFICIENCY PARTICULATE ARRESTANCE BRITISH THERMAL UNIT ROOF EXHAUST FAN BRITISH THERMAL UNIT PER HOUR HIGH LIMIT RETURN FAN FLOOR DRAIN - FUNNEL, ELEVATION -----DIFFUSER - LINEAR SLOT HAND/OFF/AUTO RELATIVE HUMIDITY BEVERAGE CONDUIT FLOW MEASURING DEVICE (FOR TEST AND BALANCING) BACKWATER VALVE HEAT PUMP REFRIGERANT LIQUID DIFFUSER - SQUARE OR RECTANGULAR HORSEPOWER RELIEF AIR FLOW SWITCH REVOLUTIONS PER MINUTE COMMON HIGH PRESSURE DOMESTIC COLD WATER CAPACITY HPHW HIGH PRESSURE DOMESTIC HOT WATER RPDA REDUCED PRESSURE BACKFLOW PREVENTION DETECTION ASSY-DUCT CROSS SECTION - SUPPLY HIGH PRESSURE DOMESTIC HOT WATER RETURN CONSTANT AIR VOLUME REDUCED PRESSURE BACKFLOW PREVENTION ZONE ASSY HOSE BIBE REFRIGERANT SUCTION CATCH BASIN HEAT PUMP LOOP DUCT CROSS SECTION - RETURN HEAT PUMP LOOP RETURN COOLING COIL ROOFTOP UNIT MANHOLE COLD DECK HEAT PUMP LOOP SUPPLY OPEN SITE DRAIN ——⊃© DUCT CROSS SECTION - EXHAUST CONDENSATE DRAIN SUPPLY AIR DIFFUSER OR GRILLE CFCI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED HEATING SOUND ATTENUATOR PIPE - ANCHOR CUBIC FEET PER HOUR HEATING VENTILATING SUPPLY AIR DUCT - FLEXIBLE CONNECTION HEATING, VENTILATING, AIR CONDITIONING PIPE - CAP OR PLUG CFM CUBIC FEET PER MINUTE SANITARY WASTE HOT WATER HEATING SUPPLY AIR TEMPERATURE PIPE - ELBOW DOWN DUCT - FLEXIBLE DUCT HOT WATER HEATING RETURN CHW CHWR CHILLED WATER SCCR CHILLED WATER RETURN HOT WATER HEATING SUPPLY SHORT CIRCUIT CURRENT RATING PIPE - ELBOW UP CHWS CHILLED WATER SUPPLY DOMESTIC HOT WATER SUPPLY FAN DUCT TAKE-OFF - ROUND CONICAL PIPE - EXPANSION JOINT OR COMPENSATOR DOMESTIC HOT WATER (SPECIFIC TEMP °F) SHOWER CNDS CONDENSATE DOMESTIC HOT WATER RETURN SINK PIPE - FLANGE DUCT TAKE-OFF - RECTANGULAR WITH SHOE TAP CNDS (__#) CONDENSATE (SPECIFIC PSIG) SNOW MELT RETURN HEAT EXCHANGER SNOW MELT SUPPLY PIPE - HOSE AND BRAID FLEXIBLE CONNECTION ELBOW - RECTANGULAR WITH TURNING VANES CARBON DIOXIDE STATIC PRESSURE PIPE - RUBBER FLEXIBLE CONNECTION CONTINUATION OR CONTINUED INDOOR AIR QUALITY SPECIFICATION CONTR CONTRACTOR INSIDE DIAMETER SPRINKLER PIPE - GUIDE ELBOW - RECTANGULAR/ ROUND SMOOTH RADIUS SQUARE FOOT/SQUARE FEET CONVECTOR INVERT ELEVATION COEFFICIENT OF PERFORMACE START/STOP INTAKE HOOD ELBOW DOWN - RECTANGULAR CIRCULATING PUMP INCHES SERVICE SINK ——--∪———— PIPE – TEE UP CONDENSATE RETURN UNIT INFRARED HEATER STANDARD CLINICAL SERVICE SINK INDIRECT WASTE ELBOW DOWN — ROUND COOLING TOWER STACK PRESSURE AND TEMPERATURE TEST PLUG JANITOR'S CLOSET CABINET UNIT HEATER ELBOW UP - RECTANGULAR STM(__#) STEAM (SPECIFIC PSIG) CW DOMESTIC COLD WATER JOCKEY PUMP DOMESTIC COLD WATER - FILTERED SUMMER / WINTER PRESSURE GAUGE AND COCK ELBOW UP - ROUND THOUSAND AMP CONDENSER WATER RETURN REDUCER - CONCENTRIC CONDENSER WATER SUPPLY KILOWATT KILOWATT-HOUR TRANSFER GRILLE REDUCER - ECCENTRIC FAN – AXIAL DRIP AND TRAP TEMPERATURE CONTROL ——**(**) ROOF/OVERFLOW DRAIN LEAVING AIR TEMPERATURE DISCHARGE AIR TEMPERING COIL FAN - CENTRIFUGAL (ELEVATION) DISCHARGE AIR TEMPERATURE LABORATORY TEMPERATURE CONTROL PANEL STEAM TRAP - FLOAT AND THERMOSTATIC LAVATORY DRY BULB TRENCH DRAIN ------ STEAM TRAP - BUCKET DIRECT DIGITAL CONTROL HEATING COIL TEMPERATURE LEAVING DRY BULB TEMPORARY STRAINER LOW LIMIT TERMINAL HEATING DRAINAGE FIXTURE UNITS INCLINED DROP IN DIRECTION OF AIRFLOW LOW PRESSURE CONDENSATE TOTAL HEAT ABSORBED STRAINER WITH VALVE AND BLOW-OFF LOW PRESSURE STEAM TERMINAL HEATING RETURN DAMPER INCLINED RISE IN DIRECTION OF AIRFLOW DAY/NIGHT LOCKED ROTOR AMPS TOTAL HEAT REJECTED THERMOMETER LEAVING WET BULB TERMINAL HEATING SUPPLY DOWNSPOUT NOZZLE LEAVING WATER TEMPERATURE TEPID WATER $-\!\!\!-\!\!\!\!-\!\!\!\!-$ INTAKE OR RELIEF HOOD DUCT SILENCER TOTAL STATIC PRESSURE MIXED AIR (AIR) TERMINAL UNIT VALVE - ANGLE REGISTER - RETURN OR EXHAUST DRAIN TILE CONNECTION MIXED AIR TEMPERATURE TURNING VANES DOMESTIC WATER HEATER MAKE-UP AIR UNIT TEMPERED WATER REGISTER - RETURN WITH BOOT ──────/──── VALVE - BUTTERFL` THOUSAND BRITISH THERMAL UNITS PER HOUR MEDICAL COMPRESSED AIR UNIT HEATER VALVE - BALANCE (i.e. BALANCE VALVE TO 0.5 GPM) REGISTER - TRANSFER GRILLE EXHAUST GRILLE OR REGISTER MINIMUM CIRCUIT AMPACITY UNDERWRITER'S LABORATORY VALVE - COMBINATION BALANCE & FLOW MEASURING (i.e. BALANCE VALVE TO 0.5 GPM) UNLESS OTHERWISE NOTED MOTOR CONTROL CENTER **ROOF EXHAUST FAN** EXHAUST AIR MECHANICAL ENTERING AIR TEMPERATURE MEZZANINE UNIT VENTILATOR → VALVE – CHECK MANUFACTURER EXPANSION COMPENSATOR TRANSITION - CONCENTRIC $\leftarrow \bigcirc$ MANHOLE → VALVE - SPRING CHECK ELECTRIC CABINET UNIT HEATER ENTERING DRY BULB 1/1000th INCH VENT VALVE - GAS (MANUAL) TRANSITION - ECCENTRIC $\leftarrow 0$ ENERGY EFFICIENCY RATIO MINIMUM VACUUM MISCELLANEOUS VARIABLE AIR VOLUME EMERGENCY EYE WASH / SHOWER → VALVE - GLOBE MILLION BRITISH THERMAL UNITS PER HOUR VACUUM BREAKER EMERGENCY EYE WASH UNIT HEATER - HORIZONTAL THROW VALVE - ISOLATION VOLUME DAMPER (MANUALLY ADJUSTABLE) EXHAUST FAN MAXIMUM OVERCURRENT PROTECTION EFFICIENCY MOTOR STARTER VALVE - NEEDLE UNIT HEATER - VERTICAL THROW ELECTRIC HEATING COIL MOUNTED VARIABLE FREQUENCY CONTROLLER EXPANSION JOINT MOTOR VENT THROUGH ROOF VALVE - OS&Y **DOUBLE LINE DUCTWORK SYMBOLS** VENTURI TERMINAL UNIT ELEVATION MANUAL AIR VENT VERTICAL UNIT VENTILATOR ——I♥—— VALVE – PLUG <u>SYMBOL</u> **DESCRIPTION** ELECTRICAL MEDICAL VACUUM **ENERGY MANAGEMENT SYSTEM** → VALVE - PRESSURE REGULATING DUCT TAKE-OFF - RECTANGULAR WITH SHOE TAP NITROGEN ENERGY RECOVERY LOOP NITROUS OXIDE WASTE AND VENT **ENERGY RECOVERY LOOP RETURN** VALVE - PRESSURE REDUCING WASTE ANESTHETIC GAS DISPOSAL ENERGY RECOVERY LOOP SUPPLY NOISE CRITERIA WET BULB ENERGY RECOVERY UNIT NORMALLY CLOSED DUCT TAKE-OFF - ROUND CONICAL NORMALLY CLOSED TIMED CLOSED VALVE - PRESSURE RELIEF WATER CLOSET EMERGENCY SHOWER EXTERNAL STATIC PRESSURE NORMALLY CLOSED TIMED OPEN WATER COLUMN ELECTRIC UNIT HEATER NATIONAL FIRE PROTECTION ASSOCIATION WATER GAUGE VALVE - PRESSURE & TEMPERATURE RELIEF NORMALLY OPEN TIMED CLOSED ELBOW - RECTANGULAR WITH TURNING VANES ENTERING WET BULB WALL HYDRANT VENT THROUGH ROOF ELECTRIC WATER COOLER NORMALLY OPEN TIMED OPEN WASHING MACHINE SUPPLY AND DRAIN BOX ENTERING WATER TEMPERATURE NOT IN CONTRACT WATER PRESSURE DROP WALL HYDRANT NORMALLY OPEN ELBOW - RECTANGULAR SHORT RADIUS WITH SPLITTER VANES NOMINAL **DOUBLE LINE PIPING SYMBOLS** FIRE PROTECTION NON POTABLE COLD WATER TRANSFORMER DEGREES FAHRENHEIT ELBOW - ROUND <u>SYMBOL</u> **DESCRIPTION** FACE AND BYPASS OXYGEN ZONE VALVE BOX FLANGE FLOAT AND THERMOSTATIC OUTSIDE AIR ELBOW - RECTANGULAR SMOOTH RADIUS OUTSIDE AIR TEMPERATURE FACE AREA FLEX CONNECTION FAN COIL UNIT OUTLET BOX OPPOSED BLADE DAMPER STRAINER - BASKET ON CENTER/CENTER TO CENTER ELBOW DOWN - RECTANGULAR OUTSIDE DIÂMETER STRAINER - Y TYPE OPEN ENDED DUCT ELBOW DOWN — ROUND OWNER FURNISHED, CONTRACTOR INSTALLED OWNER FURNISHED, OWNER INSTALLED VALVE - 2 WAY CONTROL OVERLOAD ELBOW UP - RECTANGULAR OVERFLOW RAIN CONDUCTOR VALVE - 3 WAY CONTROL OVERFLOW ROOF DRAIN ELBOW UP - ROUND OUTSIDE SCREW AND YOKE OUTLET VELOCITY VALVE — BUTTERFLY OPERATOR WORKSTATION **HEATING COIL** VALVE - CHECK INCLINED DROP IN DIRECTION OF AIRFLOW VALVE - DETECTOR CHECK INCLINED RISE IN DIRECTION OF AIRFLOW TRANSITION - CONCENTRIC VALVE - OS&Y HORIZONTAL STEM TRANSITION - ECCENTRIC VALVE - OS&Y VERTICAL STEM

TEMPERATURE CONTROL - PARTIAL SYMBOLS LIST

1 -1711			I MDOEO EIOT
SYMBOL	DESCRIPTION	<u>SYMBOL</u>	<u>DESCRIPTION</u>
C02	CARBON DIOXIDE SENSOR	OS	OCCUPANCY SENSOR
со	CARBON MONOXIDE SENSOR	PT	PRESSURE TRANSMITTER
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	SP	STATIC PRESSURE SENSOR OR PROBE
FM	FLOW METER	X	VALVE - 2 WAY CONTROL VALVE
	GUARD FOR STAT OR SENSOR	₹	VALVE - 3 WAY CONTROL VALVE
Н	HUMIDISTAT OR HUMIDITY SENSOR (AS DEFINED ON TC DRAWNGS)	T	THERMOSTAT OR TEMPERATURE SENSO (AS DEFINED ON TC DRAWNGS)

NOTE: LIST OF ADDITIONAL SYMBOLS & ABBREVIATIONS ASSOCIATED WITH TEMPERATURE CONTROLS ARE IDENTIFIED ON TC DRAWINGS.

MECHANICAL DRAWING INDEX

SHEET NO.

SHEET TITLE MECHANICAL STANDARDS AND DRAWING INDEX M0.1 MD1.1D FIRST FLOOR MECHANICAL DEMOLITION PLAN - ZONE 'D' M1.1D FIRST FLOOR MECHANICAL NEW WORK PLAN - ZONE 'D' M7.1 MECHANICAL SCHEDULES

STANDARD METHODS OF NOTATION SUPPLY DIFFUSER WITH SCHEDULE TAG "1", 10" DIAMETER NECK SIZE 10ø 350-4 350 CFM TYPICAL FOR 4 RETURN REGISTER WITH SCHEDULE TAG "1", 22"x 22" NECK SIZE 640 CFM TYPICAL FOR 2 EXHAUST REGISTER E DESIGNATION SIMILAR. AIR TERMINAL UNIT WITH HEATING COIL NO. 101 WITH SERVICE CLEARANCE SHOWN VENTURI AIR TERMINAL WITH HEATING COIL NO. 101 WITH SERVICE CLEARANCE SHOWN PLUMBING FIXTURE UNIT IDENTIFICATION TAG WATER CLOSET TYPE "1" TYPICAL FOR 2 22x10 18x14ø -RECTANGULAR DUCT CONSTRUCTION KEY NOTE (NUMBER) OR DEMOLITION KEY NOTE (LETTER) EQUIPMENT DESIGNATION, (i.e. EXHAUST FAN NUMBER 1) PIPING RISER DESIGNATION HW-1 (i.e. HOT WATER RISER NUMBER 1 --- NEW SYSTEM COMPONENT EXISTING SYSTEM COMPONENT TO REMAIN --- POINT OF NEW CONNECTION SYMBOL -SECTION OR PLAN NUMBER SHEET WHERE SECTION IS DRAWN AREA OF ENLARGEMENT PLAN NUMBER SHEET WHERE ENLARGED PLAN IS DRAWN - SECTION OR PLAN NUMBER SECTION OR ENLARGED PLAN M5.1 SCALE: 1/8" - 1' - 0" - SHEET WHERE SECTION IS CUT OR ENLARGED PLAN IS REFERENCED HEAVY LINE WEIGHT INDICATES NEW WORK LIGHT LINE WEIGHT INDICATES EXISTING **EQUIPMENT OR REFERENCED INFORMATION** GRAY LINE INDICATES BACKGROUND INFORMATION DASHED LINES INDICATE PIPING _____ ROUTED BELOW SLAB OR GRADE

HATCH MARKS INDICATE EQUIPMENT OR MATERIALS

TO BE DISCONNECTED AND REMOVED.

NOTE: SOME SYMBOLS AND ABBREVIATIONS

SHOWN MAY NOT APPLY TO THIS PROJECT



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PROJECT TITLE Smith Middle School Stage Upgrade Bid Package No 32

Troy School District Troy, Michigan

DRAWING TITLE MECHANICAL STANDARDS AND DRAWING INDEX

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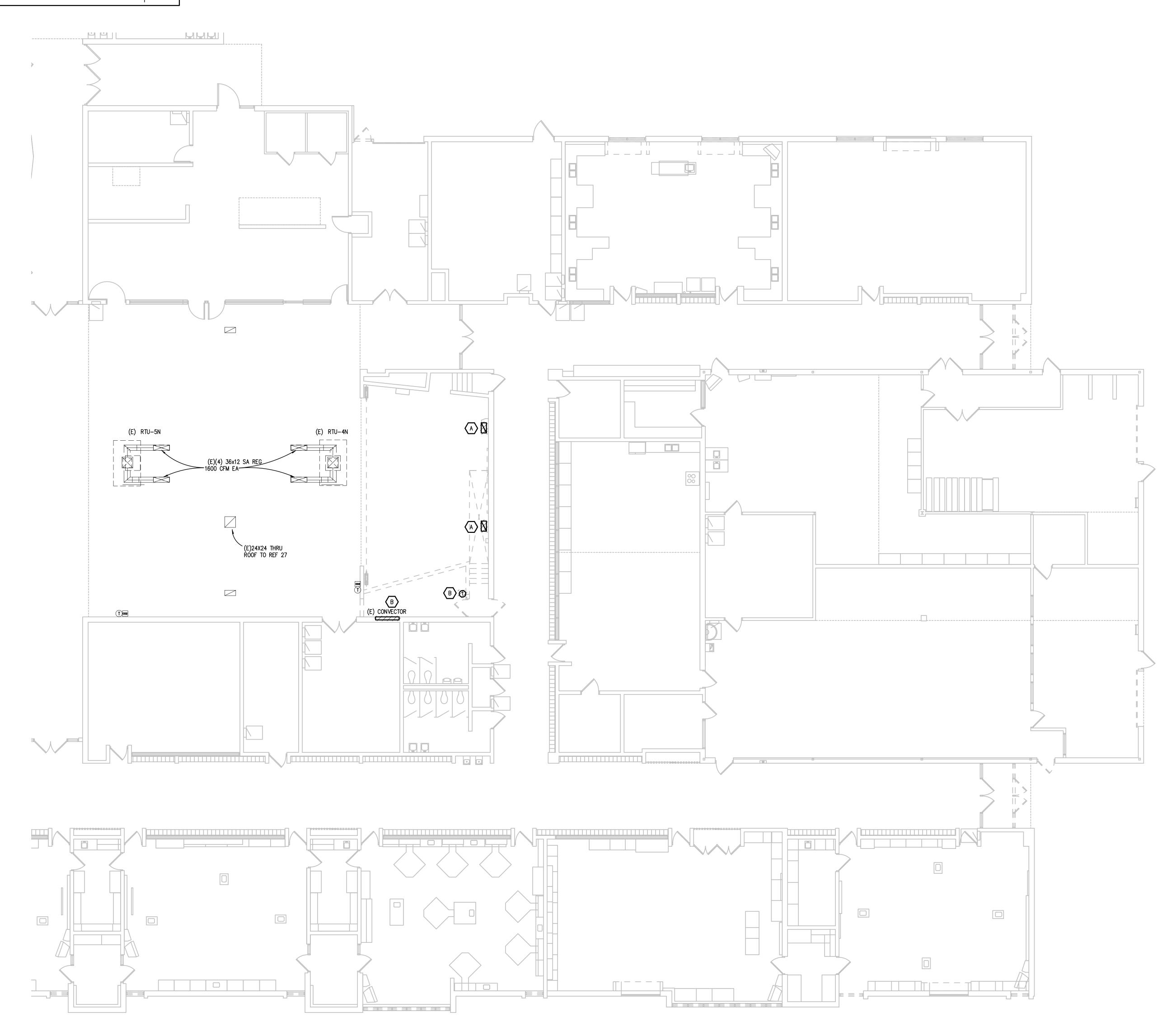
APPROVED SVM

PROJECT NO.

13172G

DRAWING NO.

M0.1



FIRST FLOOR MECHANICAL DEMOLITION PLAN - ZONE 'D' SCALE: 1/8" - 1' - 0"

MECHANICAL GENERAL DEMOLITION NOTES:

- ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
- 2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
- 3. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
- 4. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

DEMOLITION KEY NOTES:

- A. REMOVE EXISTING RA GRILLES WITH ASSOCIATED ACCESSORIES COMPLETE.
- B. REMOVE EXISTING CONVECTOR WITH ASSOCIATED HWH PIPING AND CONTROL COMPLETE. CAP HWH PIPING IN CONCEAL MANNER.



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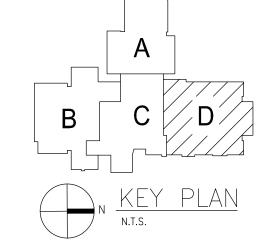


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Smith Middle
School
Stage Upgrade
Bid Package No 32

Troy School District Troy, Michigan

FIRST FLOOR MECHANICAL
DEMOLITION PLAN - ZONE
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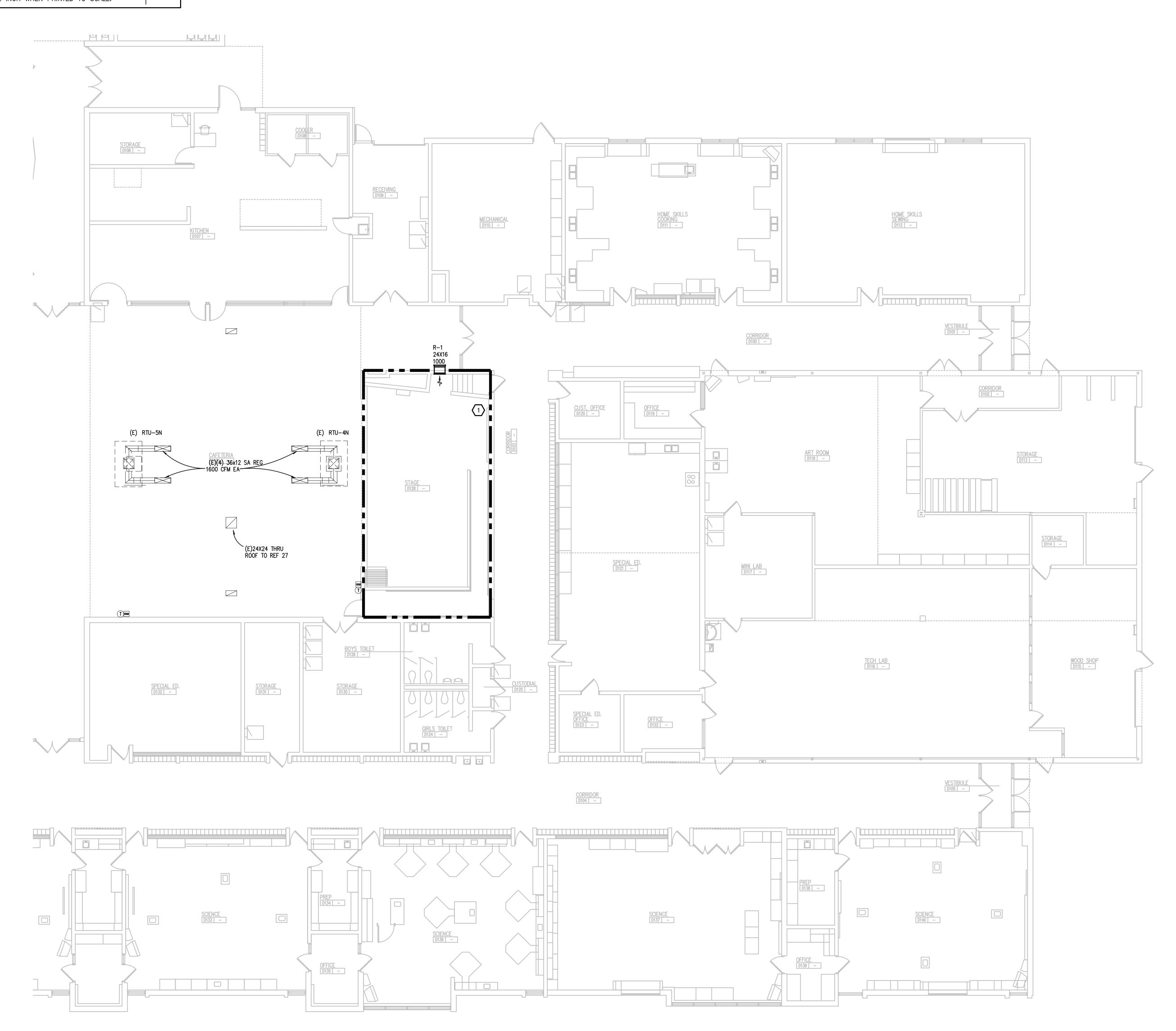
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PROJECT NO.

13172G

DRAWING NO.

MD1.1D



FIRST FLOOR MECHANICAL NEW WORK PLAN - ZONE 'D' SCALE: 1/8" - 1' - 0"

SHEET METAL GENERAL NOTES:

- 1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
- 2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3. PIPING AND DUCTWORK SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
- 4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- 5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL
- 6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.

FIRE PROTECTION GENERAL NOTES:

- 1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
- 2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3. NO SPRINKLER PIPING SHALL BE ROUTED THROUGH ELECTRICAL EQUIPMENT ROOMS, TELECOMMUNICATION EQUIPMENT ROOMS, ELEVATOR EQUIPMENT ROOMS OR SIMILAR ROOMS. ONLY SPRINKLER PIPING SERVING SPRINKLERS HEADS IN THOSE ROOMS
- 4. PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
- 5. MINIMUM RUN-OUT PIPE SIZE TO SPRINKLER HEADS SHALL BE 1".
- 6. PROVIDE AN AUTOMATIC WET PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 LIGHT HAZARD CLASSIFICATION. HYDRAULIC CALCULATIONS SHALL BE BASED ON DENSITY OF 0.10 GPM/SQ FT. OVER THE MOST REMOTE 1500 SQ. FT.
- 7. THERE IS NO RECENT FLOW TEST INFORMATION. CONTRACTOR SHALL MAKE HIS OWN PRESSURE AND FLOW TEST PRIOR TO SYSTEM DESIGN.
- 8. FIRE PROTECTION WATER SERVICE ENTRANCE PIPING SHALL BE BURIED WITH DEPTH OF COVER OVER TOP OF PIPE OF AT LEAST 72", OR WITH TOP OF PIPE AT LEAST 12" BELOW LEVEL OF MAXIMUM FROST PENETRATION, OR AS REQUIRED BY AUTHORITIES HAVING JURISDICTION, WHICHEVER IS DEEPEST.

CONSTRUCTION KEY NOTES:

1. REWORK EXISTING WET PIPE SPRINKLER SYSTEM WHERE INDICATED PER NFPA 13. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.



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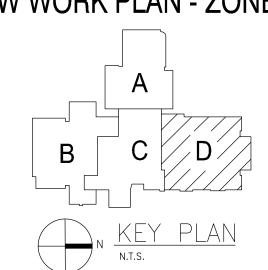


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PROJECT TITLE Smith Middle School Stage Upgrade Bid Package No 32

Troy School District Troy, Michigan

DRAWING TITLE FIRST FLOOR MECHANICAL NEW WORK PLAN - ZONE



ISSUE DAT	ES

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APPROVED SVM

PROJECT NO.

DRAWING NO.

13172G

M1.1D

GRILLE, REGISTER, AND DIFFUSER SCHEDULE										
UNIT IDENTIFICATION	TYPE	FACE SIZE	NECK SIZE	FRAME TYPE	ACCESSORY	CONSTRUCTION	FINISH	MODEL NUMBER	REMARKS	
R–1	GRILLE	NECK SIZE + 1-3/4"	SEE PLANS	SIDE WALL		STEEL	SELECTED BY ARCHITECT	530		

^{1.} MODEL NUMBERS ARE PRICE UNLESS OTHERWISE NOTED.

DUCT SYSTEM APPLICATION SCHEDULE																		
						DI	JCT M	ATERIA	L									
AIR SYSTEMS	G90 GALV. SHEET METAL	DOUBLE-WALL LINED G90 GALV. SHEET METAL (SOLID INNER WALL)	DOUBLE—WALL LINED G90 GALV. SHEET METAL (PERF. INNER WALL)	G90 GALV. SHEET METAL WITH 1-INCH LINING	GALVANNEALED SHEET METAL	ALUMINUM	TYPE 304 STAINLESS STEEL	TYPE 316 STAINLESS STEEL	PVC COATED GALV. SHEET METAL (4X1)	PVC COATED GALV. SHEET METAL (1X4)	PVC COATED GALV. SHEET METAL (4X4)	16 GA. CARBON STEEL	ZERO-CLEARANCE PREFABRICATED RANGE HOOD EXHAUST DUCT	FABRIC	DESIGN PRESSURE CLASS (INCHES WG)	SEAL CLASS	MAX. ALLOWABLE LEAKAGE RATE (PERCENT)	KEYED NOTES
RETURN AIR WITHOUT TERMINAL UNITS	Х														-2	Α	5	

GENERAL NOTES

- 1. 'X' INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
- 2. 4 X 1 PVC-COATED GALVANIZED STEEL: FACTORY-APPLIED PVC COATINGS SHALL BE 4 MILS (0.10 MM) THICK ON EXTERIOR SHEET METAL SURFACES OF DUCTS AND FITTINGS EXPOSED TO CORROSIVE CONDITIONS AND MINIMUM 1 MIL (0.025 MM) THICK ON INTERIOR SURFACES. 3. 1 X 4 (4 X 1 REVERSE COATED) PVC—COATED GALVANIZED STEEL: FACTORY—APPLIED PVC COATINGS SHALL BE 4 MILS (0.10 MM) THICK ON INTERIOR
- SHEET METAL SURFACES OF DUCTS AND FITTINGS EXPOSED TO CORROSIVE CONDITIONS AND MINIMUM 1 MIL (0.025 MM) THICK ON EXTERIOR SURFACES.
- 4. 4 X 4 PVC-COATED GALVANIZED STEEL: FACTORY-APPLIED PVC COATINGS SHALL BE 4 MILS (0.10 MM) THICK ON SHEET METAL SURFACES OF DUCTS AND FITTINGS EXPOSED TO CORROSIVE CONDITIONS AND 4 MILS (0.10 MM) THICK ON OPPOSITE SURFACES.

<u>KEYED NOTES</u>

A. SCREWS, DAMPERS, OR PROJECTIONS OF ANY TYPE ON INTERIOR OF DUCT SURFACE ARE PROHIBITED. B. DUCT SHALL BE LINED WITHIN 25 FEET UPSTREAM OF FANS.

C. ALL WELDED CONSTRUCTION.

SCHEDULES GENERAL NOTES:

TYPICAL FOR ALL SCHEDULE SHEETS:

- 1. REFER TO ELECTRICAL STANDARD SCHEDULES, ONE LINE DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL ELECTRICAL INFORMATION
- 2. PROVIDE THE FOLLOWING FACTORY-WIRED ELECTRICAL OPTIONS/ACCESSORIES WHERE INDICATED IN SCHEDULE:
- A NON-FUSED DISCONNECT SWITCH
- B UNIT SHALL BE SINGLE POINT ELECTRICAL CONNECTION WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND
- CONTROLS
- D FUSED DISCONNECT SWITCH E - COMBINATION STARTER

C — SERVICE RECEPTACLE

- F UNIT SHALL HAVE (2) SINGLE POINT CONNECTIONS WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS. (1) CONNECTION SHALL BE FOR CONDENSING SECTION AND (1) CONNECTION SHALL BE FOR THE REMAINDER OF THE UNIT.
- 3. FOR MODULATION/CONTROL TYPE COLUMN, "VFC" INDICATES VARIABLE FREQUENCY CONTROLLERS, "AUTO" INDICATES AUTOMATIC OPERATION (CONTROLLED BY TEMPERATURE CONTROLS OR SELF CONTAINED CONTROLS), "MANUAL" INDICATES HAND OPERATION.
- 4. IF VARIABLE FREQUENCY CONTROLLERS ARE INDICATED TO BE PROVIDED AND ARE NOT INSTALLED INTEGRAL TO THE UNIT, VARIABLE FREQUENCY CONTROLLERS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR (UNLESS OTHERWISE NOTED) AND INSTALLED BY THE ELECTRICAL CONTRACTOR INCLUDING THE LINE SIDE AND LOAD SIDE WIRING TO THE MOTOR AND INCLUDING MISCELLANEOUS STEEL REQUIRED FOR THE SUPPORT AND MOUNTING OF THE VFC. REFER TO FLOOR PLANS FOR LOCATION.
- 5. WHERE EQUIPMENT IS INDICATED TO HAVE A SINGLE POINT ELECTRICAL CONNECTION, THAT EQUIPMENT SHALL COME COMPLETE WITH FACTORY INSTALLED STARTERS, MOTOR OVERLOAD PROTECTION, CONTACTORS, FUSING AND ALL NECESSARY INTERNAL WIRING AND CONTROLS. PROVIDE A FACTORY MOUNTED UNIT DISCONNECTING MEANS WHERE THE ELECTRICAL CONTRACTOR SHALL MAKE SINGLE POINT CONNECTION. INSTALL PACKAGED EQUIPMENT SUCH THAT THE ELECTRICAL CONNECTION AND CONTROLS ARE ACCESSIBLE AND HAVE CLEARANCES MEETING THE NATIONAL ELECTRICAL CODE.
- 6. WHERE PACKAGED EQUIPMENT IS PROVIDED, NAMEPLATE MUST INDICATE MAXIMUM OVERCURRENT PROTECTION BY HACR RATED CIRCUIT BREAKERS OR FUSES. IF FUSE PROTECTION ONLY IS INDICATED, PROVIDE A FUSIBLE DISCONNECT AND FUSES WITH
- 7. WHERE EQUIPMENT IS DESIGNATED BY MANUFACTURER AND MODEL NUMBER, THIS IS THE BASIS OF DESIGN. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT BY OTHER SPECIFIED MANUFACTURERS OR PROPOSED ALTERNATE EQUIPMENT BY THE BASIS OF DESIGN MANUFACTURER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS TO ELECTRICAL REQUIREMENTS, STRUCTURAL LOADING, OR ARCHITECTURAL APPURTENANCES AND SHALL INCLUDE THE COST OF SUCH REVISIONS IN HIS BID.
- 8. WHERE EQUIPMENT IS SCHEDULED TO INCLUDE A SERVICE RECEPTACLE, PROVIDE A FACTORY MOUNTED SERVICE RECEPTACLE WITH APPROPRIATE FUSES AND TRANSFORMERS CONNECTED ON THE LINE SIDE OF THE UNIT DISCONNECT. PROVIDE A NAMEPLATE ON THE DISCONNECT SWITCH INDICATING THE PRESENCE OF LIVE POWER TO THE SERVICE RECEPTACLE WHEN THE UNIT DISCONNECT IS IN THE OFF
- 9. SIZE ALL EQUIPMENT FEEDERS BASED ON THE LISTED MOP (MAXIMUM OVERCURRENT PROTECTION). REFER TO THE FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE ON THE ELECTRICAL STANDARD SCHEDULES SHEET.



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PROJECT TITLE Smith Middle School Stage Upgrade Bid Package No 32

Troy School District Troy, Michigan

DRAWING TITLE MECHANICAL SCHEDULES

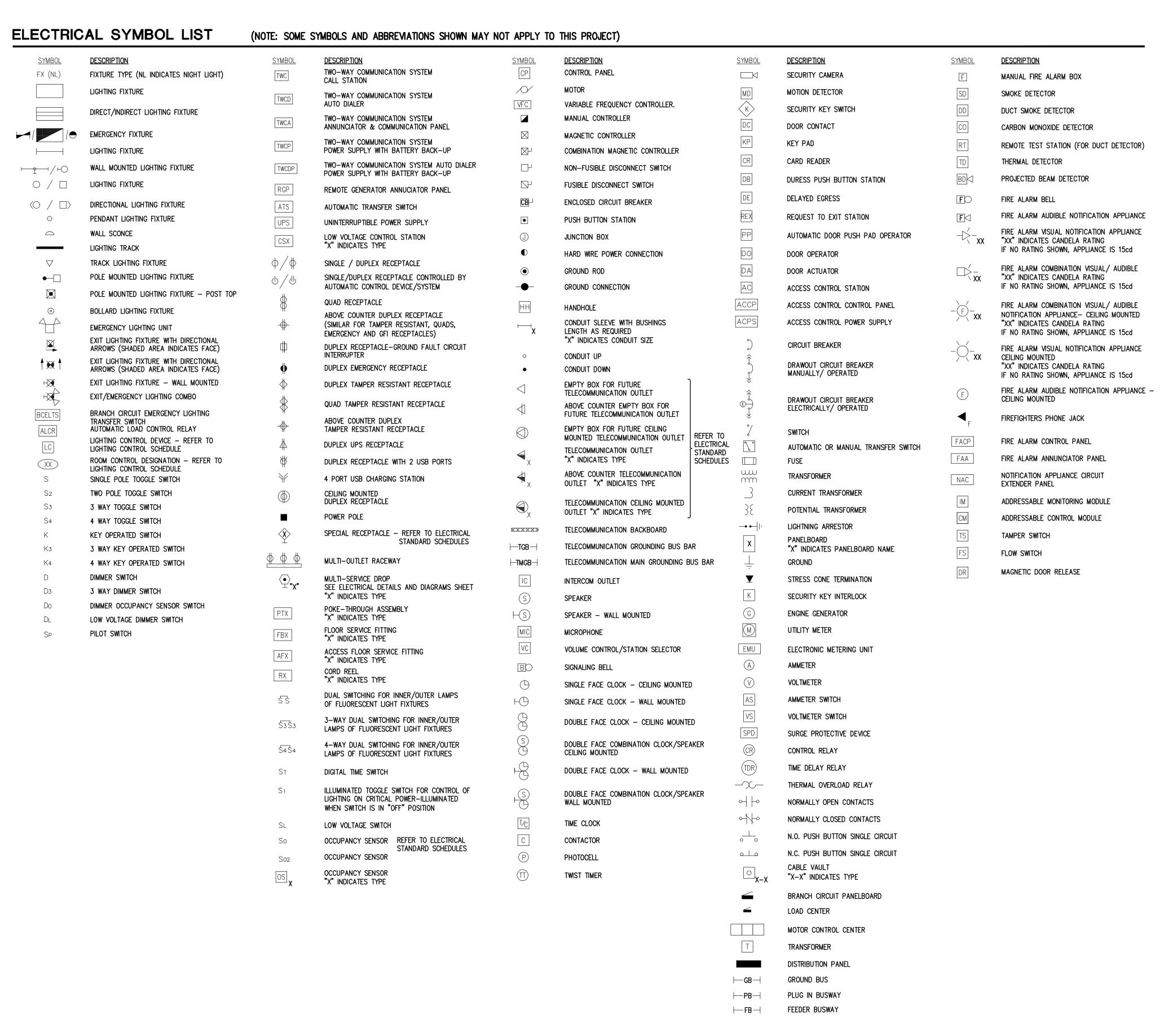
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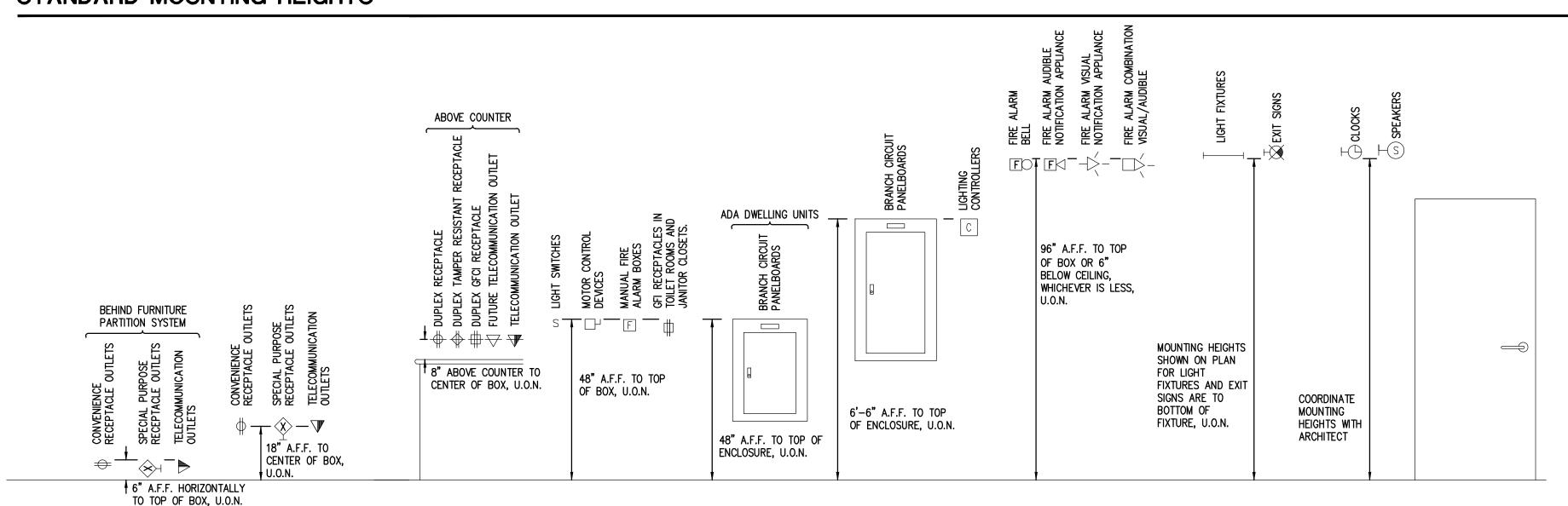
APPROVED SVM

13172G

PROJECT NO.



STANDARD MOUNTING HEIGHTS



ELECTRICAL DRAWING INDEX

SHEET NO.

SHEET TITLE

E0.1 ELECTRICAL STANDARDS AND DRAWING INDEX

E0.2 ELECTRICAL STANDARD SCHEDULES

E0.3 FIRST FLOOR ELECTRICAL COMPOSITE PLAN

ED1.1D FIRST FLOOR ELECTRICAL DEMOLITION PLAN — ZONE 'D'

E2.1D FIRST FLOOR LIGHTING NEW WORK PLAN — ZONE 'D'

E3.1D FIRST FLOOR POWER NEW WORK PLAN — ZONE 'D'

ARCHITECTURE

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Smith Middle
School
Stage Upgrade
Bid Package No 32

Troy School District Troy, Michigan

DRAWING TITLE
ELECTRICAL STANDARDS
AND DRAWING INDEX

STANDARD METHODS OF NOTATION

FOOD SERVICE EQUIPMENT CONTRACTOR NTS

ELECTRICAL ABBREVIATION LIST

AMPERES FRAME (BREAKER RATING)

ARC FAULT CIRCUIT INTERRUPTER

AMPERES TRIP (BREAKER SETTING)

AMPS INTERRUPTING CAPACITY

AUTOMATIC TRANSFER SWITCH

BOLTED PRESSURE SWITCH

CONTRACTOR FURNISHED,

CONTRACTOR INSTALLED

CURRENT TRANSFORMER

DISTRIBUTION PANEL

EMERGENCY BATTERY UNIT

ELECTRICAL CONTRACTOR

ELECTRICALLY OPERATED

EMERGENCY POWER OFF

ELECTRIC WATER COOLER

ELECTRICAL METALLIC TUBING

ABBREVIATION DESCRIPTION

AMPERES

ARC ENERGY REDUCTION

ABOVE FINISH FLOOR

AUDIENCE LEFT

AUDIENCE RIGHT

CIRCUIT BREAKER

DEMOLITION

DIMENSION

DISCONNECT

DOWNSTAGE

ELECTRICAL

EMERGENCY

EXISTING

FIRE ALARM

FULL LOAD AMPS

FRONT OF HOUSE

ABBREVIATION DESCRIPTION

GROUND FAULT CIRCUIT INTERRUPTER OFCI

GROUND FAULT PROTECTION

HAND-OFF-AUTO

ISOLATED GROUND

JUNCTION BOX

THOUSAND AMP

KILOVOLT - AMPERES

KILOWATT - HOURS

LIGHTNING ARRESTOR

LIGHTING DISTRIBUTION PANEL

MINIMUM CIRCUIT AMPACITY

MAIN CIRCUIT BREAKER

MOTOR CONTROL CENTER

MAXIMUM OVERCURRENT PROTECTION

LIGHTING PANEL

KILOVOLT

KILOWATT

MAXIMUM

MECHANICAL

MISCELLANEOUS

MAIN LUGS ONLY

NORMALLY CLOSED

NOT IN CONTRACT

NON-FUSIBLE

NIGHT LIGHT

NOT TO SCALE

NORMALLY OPEN

NATIONAL ELECTRICAL CODE

MOUNTED

MOUNTING

NEUTRAL

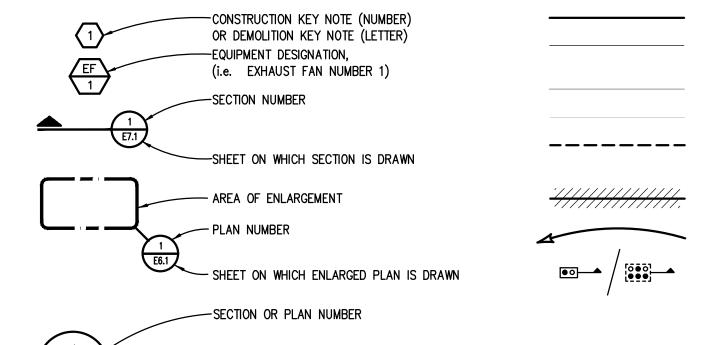
MOTOR

HORSEPOWER

HIGH VOLTAGE

G/GRD/EG

KWH



HEAVY LINE WEIGHT INDICATES NEW WORK

LIGHT LINE WEIGHT INDICATES EXISTING
EQUIPMENT OR REFERENCED INFORMATION

GRAY LINE INDICATES BACKGROUND INFORMATION

THIN GRAY LINE INDICATES CEILING GRID

DASHED LINES INDICATE CONDUIT ROUTED
IN OR BELOW SLAB OR GRADE

HATCH MARKS INDICATE EQUIPMENT OR
MATERIALS TO BE DISCONNECTED AND REMOVED.

CIRCUIT HOMERUN

ABBREVIATION DESCRIPTION

ON CENTER

PHASE

RECEPTACLE

SWITCHBOARD

SWITCHGEAR

VOLTS

WIRE OR WATTS

WEATHERPROOF

TRANSFORMER

EXISTING

RELOCATED

EXPLOSION PROOF

WATER RESISTANT

U.O.N.

TERMINAL BOX

TELECOMMUNICATIONS

UNLESS OTHERWISE NOTED

TAMPER RESISTANT

RECEPTACLE PANEL

RIGID STEEL CONDUIT

OWNER FURNISHED,

OWNER FURNISHED,

OWNER INSTALLED

CONTRACTOR INSTALLED

PUSHBUTTON STATION

POTENTIAL TRANSFORMER

POWER DISTRIBUTION PANEL

RECEPTACLE DISTRIBUTION PANEL

SHORT CIRCUIT CURRENT RATING

TELEPHONE TERMINAL BACKBOARD

SURGE PROTECTION DEVICE

SECTION OR ENLARGED PLAN

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

SHEET ON WHICH SECTION IS CUT
(ENLARGED PARTIAL PLAN SIMILAR)

SHEET E1.0

1–15–2021 CONSTRUCTION DOCUMENTS

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CHECKED ZBD

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PROJECT NO.

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E0.1

INTERIOR LIGHTING FIXTURE SCHEDULE										
TYPE	DESCRIPTION	VOLTAGE	(QTY.) LAMPS	MANUFACTURERS						
L1	LED 48" STRIP CHAIN HUNG FIXTURE: ALUMINUM HOUSING, UV STABILIZED POLY CARBONATE LENS. 0-10V 10% DIMMING. FINISH SHALL BE WHITE.	MULTI	5,000 LUMENS 4000K 80CRI	LITHONIA CLX SERIES COLUMBIA LCL SERIES METALUX SNLED SERIES						
EXIT SIGN	LED EXIT: THERMOPLASTIC WHITE HOUSING. HIGH OUTPUT LED DIFFUSE LIGHT PANEL, SINGLE OR DOUBLE STENCIL WHITE FACE, WITH DIRECTIONAL ARROWS AS INDICATED ON PLANS. MULTI-VOLT OPERATION. UNIT SHALL BE COMPLETELY SELF-CONTAINED WITH SEALED MAINTENANCE FREE BATTERY.	MULTI	HIGH OUTPUT LED	1. SURE-LITES LPX SERIES 2. LITHONIA QUANTUM LQM SERIES 3. DUAL-LITE LX SERIES						

1. FOR FIXTURES INDICATED AS MULTI-VOLT ON SCHEDULE, ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND PROVIDE PROPER VOLTAGE.

_	EXISTING RP-K1													
#	LOAD TYPE	DESCRIPTION	CB TYPE	СВ	VA	ØA	ØB	ØC	VA	СВ	CB TYPE	DESCRIPTION	LOAD TYPE	
1	NC				5400	5900			500	20		EXISTING LOAD	NC	2
3		EXISTING LOAD		60	5400		5900		500	20		EXISTING LOAD	NC	4
5	NC				5400			5900	500	20		EXISTING LOAD	NC	6
7	NC	EVICTURE LOAD		45	800	1300	4550		500	20		EXISTING LOAD	NC NC	8
9		EXISTING LOAD		15	800		1550	4700	750	30		EXISTING LOAD	NC NC	10
11	NC	LEXISTING LOAD		20	800 500	1000		1300	500 500	20		EXISTING LOAD EXISTING LOAD	NC NC	12
13 15	NC NC	EXISTING LUAD		20	2700	1000	3200		500	20 20		EXISTING LOAD	NC NC	16
17	NC	EXISTING LOAD		40	2700		3200	3200	500	20		EXISTING LOAD	NC NC	18
19		EXISTING LOAD		20	500	1000		0200	500	20		EXISTING LOAD	NC NC	20
21		EXISTING LOAD		20	500	1000	1000		500	20		EXISTING LOAD	NC NC	22
23		EXISTING LOAD		20	500			1000	500	20		EXISTING LOAD	NC	24
25	NC	EXISTING LOAD		20	500	1000			500	20		EXISTING LOAD	NC	26
27	NC	EXISTING LOAD		20	500		1000		500	20		EXISTING LOAD	NC	28
29	NC	EXISTING LUAD		20	500			4700	4200				NC	30
31	NC	EXISTING LOAD		20	500	4700			4200	50		EXISTING LOAD	NC	32
33	NC	EXISTING LOAD		20	500		4700		4200				NC	34
35	NC				800			1600	800				NC	36
37		EXISTING LOAD		20	800	1600			800	15		EXISTING LOAD	NC	38
39	NC				500		1300		800				NC NC	40
41		EXISTING LOAD		15	500	4000		1000	500	15		EXISTING LOAD	NC NC	42
43		EXISTING LOAD		15	500	1000	4000		500	15		EXISTING LOAD	NC NC	44
45	NC NC	EXISTING LOAD		20	500 500		1000	1000	500 500	20		EXISTING LOAD EXISTING LOAD	NC NC	46
47 49	NC				500	1000		1000	500	20 20		EXISTING LOAD	NC NC	48 50
51	NC	EXISTING LOAD		30	500	1000	1000		500	20		EXISTING LOAD	NC NC	52
53	110	SPARE		20	1 300		1000	720	720	20		RECEPTACLE	R	54
55		SPARE		20		360		720	360	20		RECEPTACLE	R	56
57		SPARE		20					- 555	20		SPARE		58
59		SPARE		20						20		SPACE		60
61		SPACE										SPACE		62
63		SPACE										SPACE		64
65		SPACE										SPACE		66
67		SPACE										SPACE		68
69		SPACE										SPACE		70
71		SPACE										SPACE		72
	DANELE	BOARD INFORMATION	DD ANCI	L CIDCIII	T CONNE	18860 ØA CTED LOA	ØB			CALCULA DEMAND		FEEDER AND OVERCURRENT SIZING NOTES:		
	VOLTAG		CONTIN	UOUS LO	DAD (C)	.VILD LU!	<u></u>	-	100% 100%	<u> </u>	•	125% 125%		-
	MAIN T				US LOAD	(NC)	58850	-	100%	58850	•	100% 58850		-
		M A.I.C.: 22,000		N LOAD		` '	30000	-	100%		•	100%		-
MOUNTING: SURFACE RECEPTACLE BASE LOAD (R) 1080 □ FEED-THROUGH LUGS RECEPTACLE DEMAND LOAD (R)			-	100%	1080	•	100% 1080		-					
			, , <u> </u>					50%		•	100%	-	-	
		DOUBLE LUGS		LIGHTING LOAD (L)				• -	100%		•	125%		_
		INTEGRAL SPD			ACK LIGH ST LOAD	TING LOA (MH)	D	100% 1080 100% 1080 50% 100% 100% 100% 100% 100% 125% 100% 125% 100% 125% 100% 125% 100% 125% 100% 125% 100% 100% 100% 125% 100% 100% 100% 100% 100% 100% 100% 10						- -
	<u>PANELE</u>	BOARD LOCATION	MOTORS	S, REMAI	NING LO	AD (M)			100%		•	100%		_
			NOTE: D	EMANIN AL	אודופ חו	INFORMATIO	N IS	TOTA	AL(KVA):					_
-					ID SIZING I CONNECT		11 IJ	TOTAL	(AMPS):			L (AMPS): 166		_
-		20 by Peter Basso Associates, Inc												-

FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE - GENERAL PURPOSE							
			COPPER CON	IDUCTORS			KEYED
OVERCURRENT		SIZE R KCMIL)		NOTES			
DEVICE RATING (AMPERES)	PHASE & NEUTRAL	GROUND	SINGLE PHASE 2 WIRE+G (1PH, 1N, 1G, 2PH, 1G)	SINGLE PHASE 3 WIRE+G (2PH, 1N, 1G)	THREE PHASE 3 WIRE+G (3PH, 1G)	THREE PHASE & NEUTRAL 4 WIRE+G (3PH, 1N, 1G)	
15-20	12	12	3/4"	3/4"	3/4"	3/4"	
25-30	10	10	3/4"	3/4"	3/4"	3/4"	
35-40	8	10	3/4"	3/4"	3/4"	3/4"	
45-50	8 (6)	10	3/4"	3/4"	3/4"	3/4"	1
60	6 (4)	10	3/4" (1")	3/4" (1")	3/4" (1")	1" (1 1/4")	1
70	4	8	1"	1 1/4"	1 1/4"	1 1/4"	
80	4 (3)	8	1"	1 1/4"	1 1/4"	1 1/4"	1
90-100	3 (2)	8	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1
110	2 (1)	6	-	1 1/4"	1 1/4"	1 1/4" (1 1/2")	1
125	1 (1/0)	6	-	1 1/4" (1 1/2")	1 1/4" (1 1/2")	1 1/2"	1
150	1/0	6	-	1 1/2"	1 1/2"	1 1/2"	
175	2/0	6	-	2"	2"	2"	
200	3/0	6	-	2"	2"	2 1/2"	
225	4/0	4	_	2"	2"	2 1/2"	
250	250	4	-	2 1/2"	2 1/2"	2 1/2"	
300	350	4	-	2 1/2"	2 1/2"	3"	
350	500	3	-	3"	3"	3"	
400	500	3	-	3"	3"	3"	

CONDUCTORS FOR THE ENTIRE LENGTH OF FEEDER.

GENERAL NOTES:
1. CONTRACTOR TO SIZE FEEDERS AND BRANCH CIRCUITS BASED ON THIS SCHEDULE AND OVER CURRENT DEVICE SIZE, UNLESS NOTED OTHERWISE.

- 2. CONTRACTOR MAY COMBINE 20A CIRCUITS AS NOTED IN SPECIFICATION. 3. CONDUCTORS ARE BASED ON THHN/THWN UP TO AND INCLUDING #4/0. LARGER THAN #4/0 ARE BASED ON TYPE XHHW.
- 4. CONDUIT SIZES ARE VALID FOR EMT OR RGS. CONDUIT SIZES SHALL BE ADJUSTED AS REQUIRED FOR OTHER TYPES OF CONDUIT. 5. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE REQUIRED WIRE SIZES TO ACCOMMODATE MECHANICAL EQUIPMENT LUG SIZES.
- 6. SIZE OF DISCONNECT SWITCH LOCATED AT EQUIPMENT SHALL BE SIZED BASED UPON OVERCURRENT PROTECTION OF THAT DEVICE. 7. OBTAIN APPROVAL FROM ENGINEER PRIOR TO INSTALLING DIFFERENT SIZE/QUANTITY OF CONDUCTORS TO OBTAIN AN EQUIVALENT AMPACITY. 8. SPLICE FROM ALUMINUM TO COPPER PRIOR TO ENTERING EQUIPMENT LISTED FOR USE WITH COPPER CONDUCTORS ONLY OR USE COPPER
- 1. CONDUCTORS ARE BASED ON 90°C, 600V. INSULATED WIRE APPLIED AT 75°C FOR TERMINATION RATED 60/75°C OR 75°C. FOR TERMINATION RATED AT 60°C, USE CONDUCTORS AND CONDUIT SIZES INDICATED IN PARENTHESES.

BRANCH CIRCUIT VOLTAGE DROP WIRING SCHEDULE FOR SINGLE PHASE CIRCUITS						
BRANCH	WIRE SIZE	M	AXIMUM BRAN	CH CIRCUIT LE	NGTH (IN FEE	T)
CKT RATING (A)	(AWG)	120V	208V	240V	277V	480V
20A	12	83	143	165	191	331
	10	128	222	256	295	511
	8	201	348	402	464	804
	6	313	542	625	721	1250
30A	10	85	148	170	197	341
	8	134	232	268	309	536
	6	208	361	417	481	833
	4	313	542	625	721	1250

- 1. THE ABOVE TABLE VALUES ARE BASED ON COPPER CONDUCTORS, IN STEEL CONDUIT, WITH A LOAD POWER FACTOR OF 0.85 PER NEC CHAPTER 9, TABLE 9.
- 2. PROVIDE BRANCH CIRCUIT CONDUCTORS AS INDICATED IN THE TABLE ABOVE FOR ALL LIGHTING AND RECEPTACLE BRANCH CIRCUITS. WHERE BRANCH CIRCUITS SERVE DEDICATED EQUIPMENT, THE CONTRACTOR MAY PERFORM VOLTAGE DROP CALCULATIONS BASED ON ACTUAL EQUIPMENT CONNECTED LOAD AND PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%.
- 3. CONDUCTOR SIZES ARE BASED ON MAXIMUM OF 9 CURRENT CARRYING CONDUCTORS IN A SINGLE CONDUIT. 4. LIMITS FOR CONDUCTOR LENGTHS SHOWN ARE BASED ON A MAXIMUM BRANCH CIRCUIT LOADING OF 64% OF THE BRANCH BREAKER RATING AND A MAXIMUM OF 3 PERCENT VOLTAGE DROP TO COMPLY WITH ASHRAE 90.1 AND THE NEC. FOR CIRCUITS LOADED GREATER THAN 64% OF BRANCH BREAKER RATING, THE CONTRACTOR SHALL PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO 3%.

	RACEWAY / CONDUCTOR / CABLE APPLIC	AT	101	N 8	SCF	1EC	UL		
		WI	RE	RACEWAY			CABLE /CORD		
		COPPER, TYPE THHN/THWN-2	COPPER, TYPE XHHW-2	ELECTRICAL METALLIC TUBING (EMT)	INTERMEDIATE METAL CONDUIT (IMC)	FLEXIBLE METAL CONDUIT (FMC)	SURFACE RACEWAY	METAL CLAD TYPE CABLE WITH INSULATED GROUND WRE (TYPE MC)	POWFR LIMITED CABLE
တ	CONCEALED, INACCESSIBLE CEILINGS	X		X	X	<u> </u>		_	
2 2 2 2 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3	CONCEALED IN GYPSUM BOARD PARTITION WALLS CONCEALED IN CMU WALLS	X		X	X	Х		Х	H
INTERIOR	EXPOSED, BELOW 10' AFF AND NOT SUBJECT TO DAMAGE	l^		X	X		X		┝
BRANCH CIRCUITS INTERIOR	EXPOSED, ABOVE 10' AFF UNFINISHED SPACES	^		X	^ X		^		
<u> </u>	EXPOSED, FINISHED SPACES	X		<u> ^</u>	_		Х		H
	CLASS 1 CONTROL CIRCUITS	X		Х	Х		_		\vdash
IONS	CLASS 2 CONTROL CIRCUITS	X		X	X				x
₹⋦⊦	CLASS 3 CONTROL CIRCUITS	T _X		X	X				X
; <u>_</u>				· ^`	ı '`	ı	1		. ^

1. TRANSITION FROM PVC/HDPE AND PROVIDE RIGID STEEL SWEEPS WHERE CONDUITS PENETRATE WALLS, CONCRETE SLABS, CONCRETE BASES, AND ASPHALT.

2. REFER TO SPECIFICATIONS FOR RESTRICTIONS ON MC/AC CABLE INSTALLATION. 3. EMT SHALL NOT BE USED ON THE EXTERIOR OF A BUILDING OR IN AREAS SUBJECT TO DAMAGE BELOW 10' AFF.

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PROJECT TITLE Smith Middle School Stage Upgrade Bid Package No 32

Troy School District Troy, Michigan

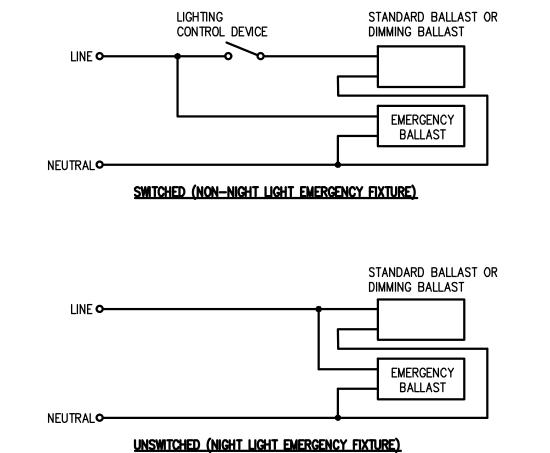
DRAWING TITLE ELECTRICAL STANDARD SCHEDULES

INTERIOR LIGHTING CONTROL SCHEDULE NO DETECTION FULL OFF (MIN)

(MIN)

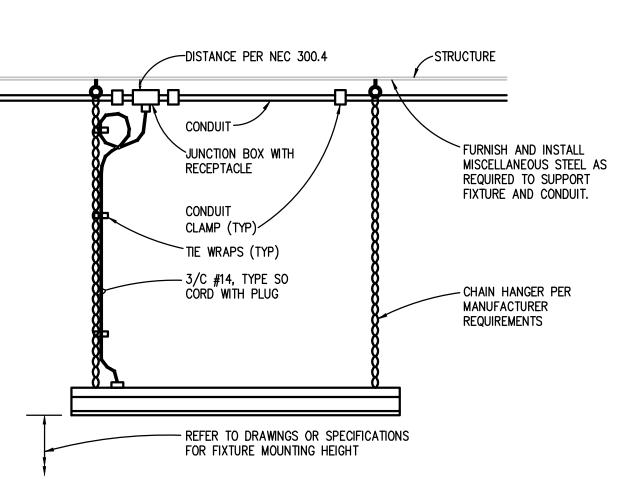
EMERGENCY
LIGHTING
CIRCUIT
CONTROL CONTACT FOR HVAC CONTROL LOCAL CONTROL DAYLIGHT CONTROL BI-LEVEL CONTROL TURN ON LIGHTING NOTES ROOM TYPE SENSOR TYPE REFERENCE ON / OFF TO % SIDE TOP MAINTAIN FC LIGHT LIGHT LEVEL SWITCH TYPE SWITCH CONTROL CLASSROOM/LECTURE HALL/TRAINING ROOM (ALL OTHER CLASSROOMS/LECTURE HALLS/TRAINING ROOMS) DUAL TECHNOLOGY MANUAL ON / SENSOR OFF BATTERY NA LOW VOLTAGE ON-OFF-DIM FULL 100% CONTINUOUS DIM NA

- 1. REFER TO PLANS FOR LOCATION OF LOCAL CONTROL. 2. CONTRACTOR SHALL PROVIDE FLOOR PLAN INDICATING SENSOR AND EQUIPMENT LOCATIONS OF CHOSEN CONTROL SYSTEM. 3. REFER TO LUMINAIRE SCHEDULE FOR FIXTURE CHARACTERISTICS.
- 4. LIGHTING SENSOR SHALL HAVE CONTACT FOR HVAC CONTROL WHEN A "YES" SELECTION IS MADE IN THE HVAC CONTROL COLUMN.
 5. REFER TO TEMPERATURE CONTROL DRAWINGS AND DIAGRAMS FOR ADDITIONAL SENSOR REQUIREMENTS.
- 6. PROVIDE WIRING CONTROL DIAGRAM FOR APPLICABLE CONTROL SYSTEM(S). 7. PERCENTAGE LIGHT OUTPUT REDUCTION IS FOR ALL FIXTURES WITHIN THE DESIGNATED ROOM UNLESS OTHERWISE NOTED.

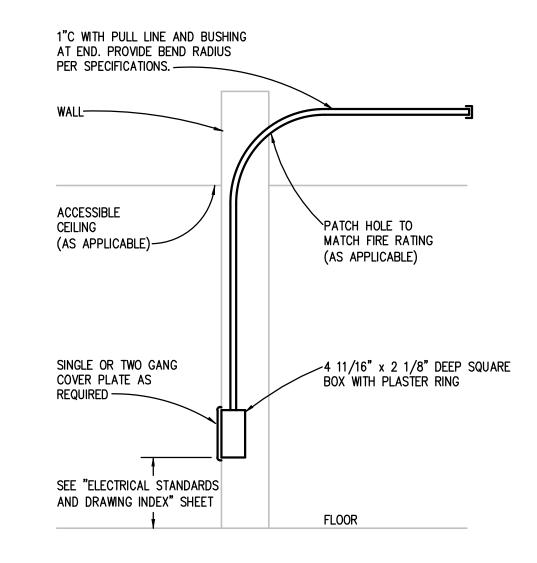


EMERGENCY BALLAST WIRING DIAGRAM

NO SCALE



TYPICAL MOUNTING DETAIL FOR CHAIN **HUNG LIGHTING FIXTURES**



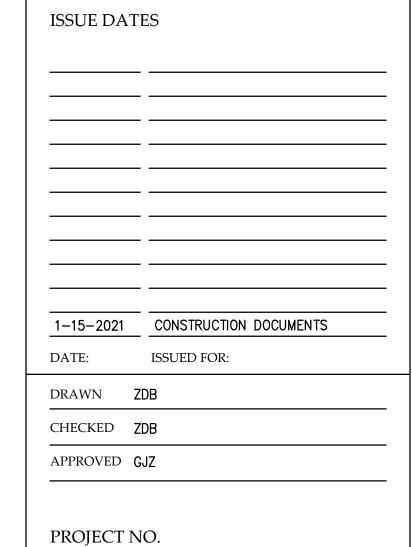
NA = NOT APPLICABLE

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TELECOMMUNICATION OUTLET DETAIL NOTES:

IF CEILING IN ROOM IS NOT ACCESSIBLE, ROUTE CONDUIT TO NEAREST ACCESSIBLE CEILING IN DIRECTION OF AND WITH PATHWAY OR ACCESS TO TELECOMMUNICATION ROOM.

NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.



E0.2

13172G



FIRST FLOOR ELECTRICAL COMPOSITE PLAN
SCALE: 1/16" - 1' - 0"



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Smith Middle
School
Stage Upgrade
Bid Package No 32

Troy School District Troy, Michigan

FIRST FLOOR ELECTRICAL COMPOSITE PLAN

ISSUE DATES	

1–15–2021 CONSTRUCTION DOCUMENTS

DATE: ISSUED FOR:

DRAWN ZDB

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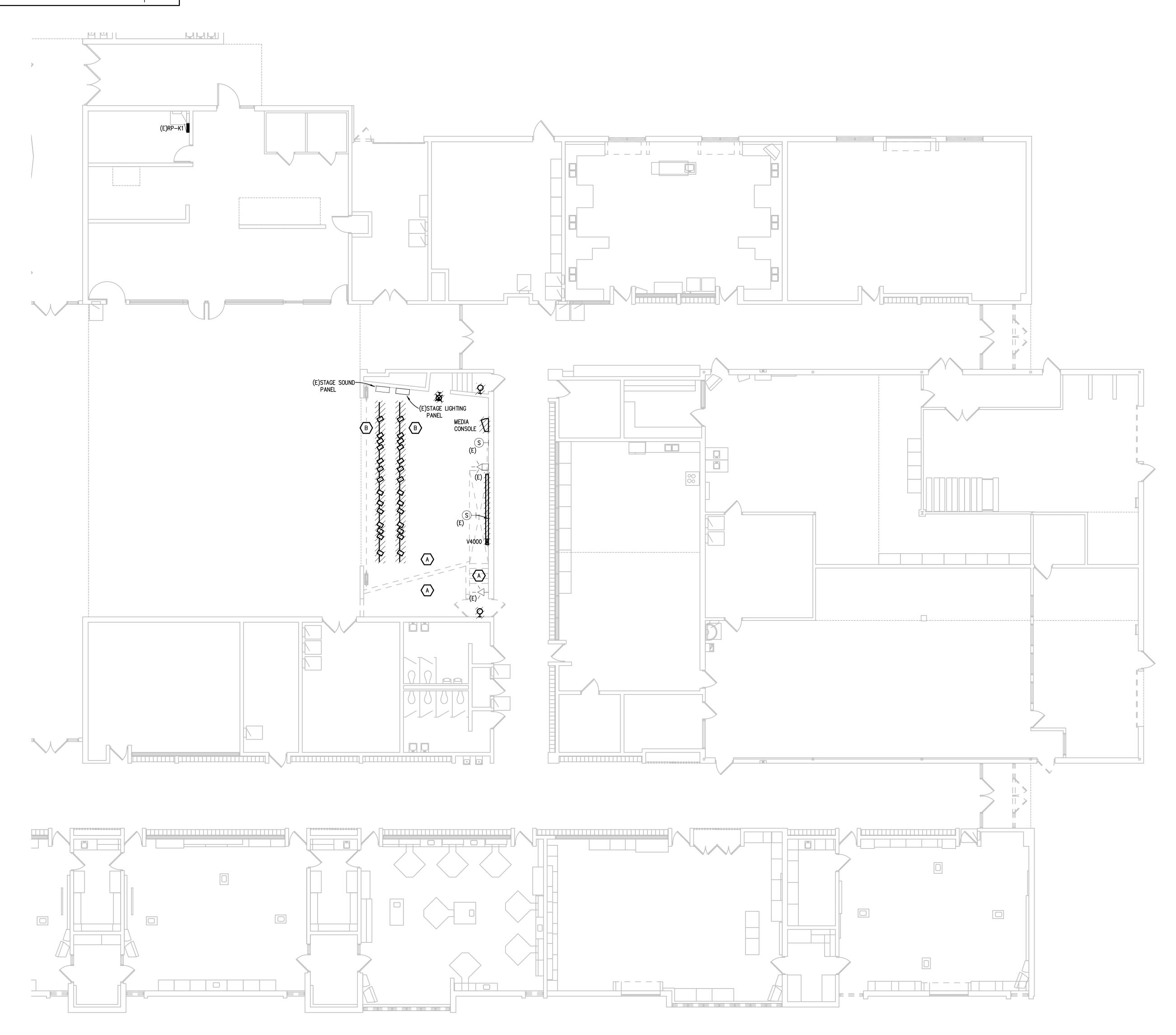
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PROJECT NO.

13172G

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FIRST FLOOR ELECTRICAL DEMOLITION PLAN - ZONE 'D' SCALE: 1/8" - 1' - 0"

ELECTRICAL DEMOLITION GENERAL NOTES:

- 1. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
- 2. EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
- REMOVE EQUIPMENT OR MATERIALS AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE COMPONENTS SHOWN.
- 4. COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.
- 5. PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE—ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
- 6. REMOVE ALL CONDUIT AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.
- 7. MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN.
- 8. DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING TCLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.
- 9. PROVIDE BLANK COVER PLATES WHERE SWITCHES AND DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
- RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE".
- 11. PROVIDE UPDATED TYPED—IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.
- 12. VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.
- 13. COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.

DEMOLITION KEY NOTES:

- A. REMOVE ALL ELECTRICAL DEVICES ON WALLS AND CEILINGS TO BE DEMOLISHED (LIGHTING, POWER, FIRE ALARM, P/A, ETC.) MAINTAIN LIGHTING BRANCH CIRCUIT FOR REUSE. ANY DEVICE LOCATED ON WALL NOT TO BE DEMOLISHED IS TO REMAIN (WALLS TO BE DEMOLISHED ARE SHOWN DASHED). REFER TO NEW WORK PLANS FOR EXTENT OF WORK.
- B. REMOVE AND SALVAGE STAGE/THEATRICAL LIGHTING. MAINTAIN BRANCH CIRCUIT AND CONTROL FOR REUSE.



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FIRST FLOOR ELECTRICAL
DEMOLITION PLAN - ZONE
'D'

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FIRST FLOOR LIGHTING NEW WORK PLAN - ZONE 'D' SCALE: 1/8' - 1' - 0"

ELECTRICAL GENERAL NOTES:

TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
- 2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER
- 4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- 5. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- 6. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
- 7. CIRCUIT NEW EXIT SIGN TO UNSWITCHED HOT-LEG ON ADJACENT LIGHTING CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.

CONSTRUCTION KEY NOTES:

- 1. CLEAN AND REINSTALL THEATRICAL STAGE LIGHTING WHERE FIXTURES WERE REMOVED. CIRCUIT TO MAINTAINED BRANCH CIRCUIT AND CONTROLS. EXTEND CONDUIT AND WIRE AS REQUIRED. RE—AIM FIXTURES AS REQUIRED, COORDINATE WITH OWNER REPRESENTATIVE.
- 2. CIRCUIT NEW LIGHT FIXTURES TO MAINTAINED BRANCH CIRCUIT. MODIFY SWITCH-LEG AS REQUIRED FOR WORK INDICATED. EXTEND CONDUIT AND WIRE AS REQUIRED.



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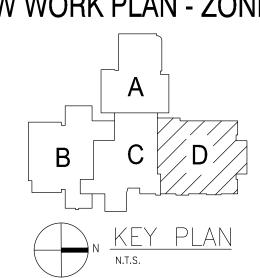


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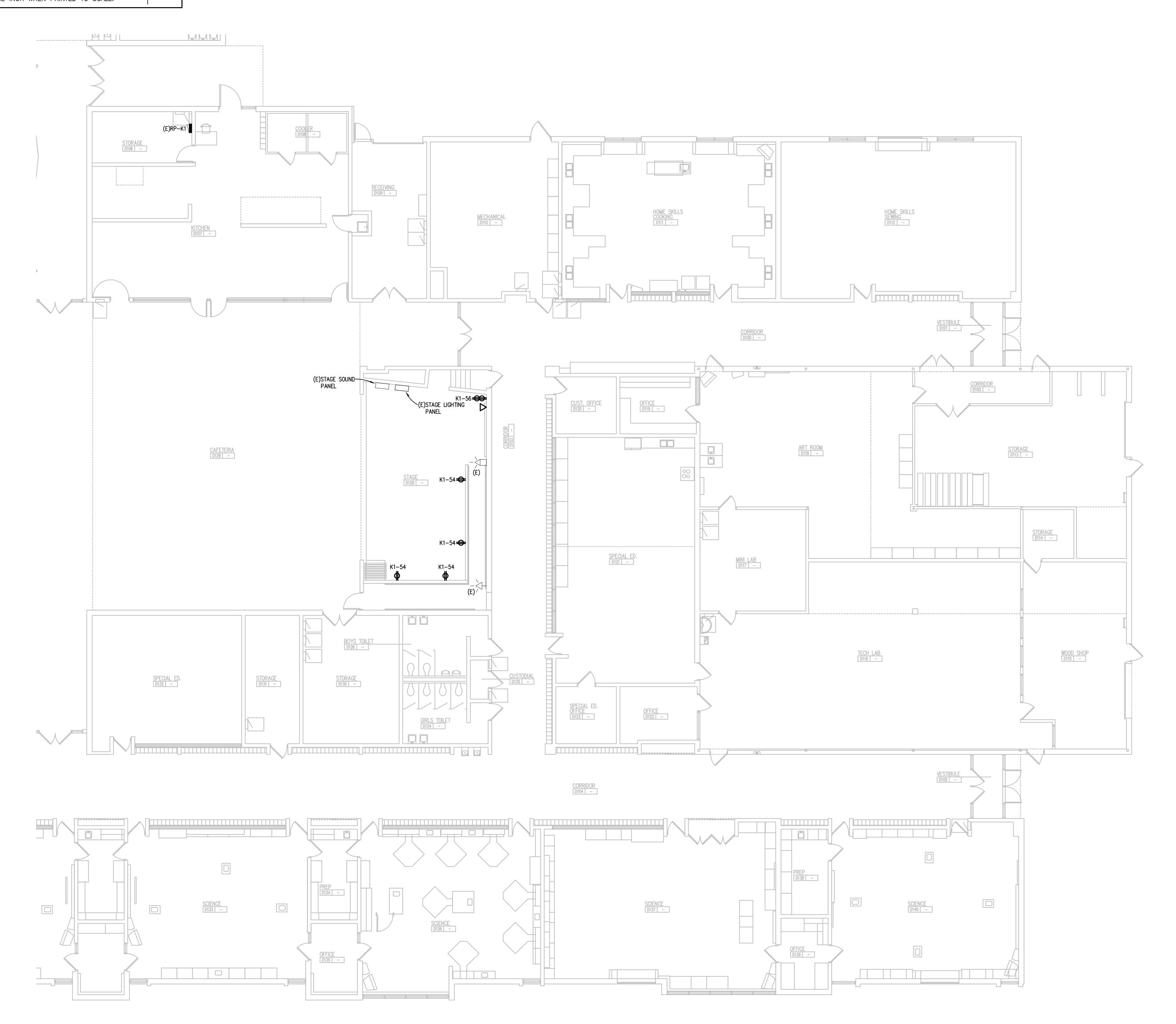
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DRAWING NO.

E2.1D



FIRST FLOOR POWER NEW WORK PLAN - ZONE 'D' SCALE: 1/8" - 1" - 0"

ELECTRICAL GENERAL NOTES:

TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

- THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
- INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER
- 4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS
- 5. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
- 6. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
- 7. CIRCUIT NEW EXIT SIGN TO UNSWITCHED HOT-LEG ON ADJACENT LIGHTING CIRCUIT. EXTEND CONDUIT AND WIRE AS REQUIRED.



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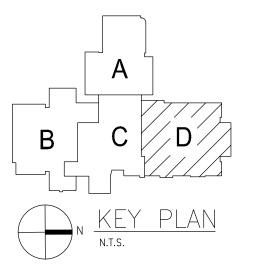


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