

ARCHITECTURE

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SMITH MIDDLE SCHOOL STAGE UPGRADE TROY SCHOOL DISTRICT - TROY, MICHIGAN

2013 BOND PROGRAM - BID PACKAGE NO.32 PROJECT NUMBER 13172G CONSTRUCTION DOCUMENTS

<p>CONSULTANTS: MECHANICAL ENGINEER</p> <p>CONSULTANT</p> <p>ELECTRICAL ENGINEER WILLIAM A. KIBBE & ASSOCIATES, INC. CONSULTING ENGINEERS 1475 S. WASHINGTON AVE. SAGINAW, MI 48601 PHONE: (989) 752-5000 FAX: (989) 752-5002</p>	<p>CONSULTANT</p> <p>CONSULTANT</p>	<p>LIST OF DRAWINGS GENERAL INFORMATION</p> <p>TS.1 COVER SHEET TG.1 GENERAL INFORMATION</p> <p>CIVIL</p>	<p>STRUCTURAL</p> <p>SO.0 STRUCTURAL GENERAL NOTES S1.00 FOUNDATION PLAN - ZONE 'D' S1.30 ROOF LEVEL FRAMING PLAN - ZONE 'D' S4.1 CONCRETE DETAILS S5.1 MASONRY DETAILS S6.1 STEEL DETAILS S7.1 TIMBER DETAILS</p>	<p>ARCHITECTURAL</p> <p>AC.1 FIRST LEVEL COMPOSITE FLOOR PLAN AD.1 DOOR AND FRAME SCHEDULE A0.10 FIRST LEVEL DEMOLITION PLAN - ZONE 'D' A1.10 FIRST LEVEL FLOOR PLAN - ZONE 'D' A2.10 FIRST LEVEL REFLECTED CEILING PLAN - ZONE 'D' A4.1 DETAILS A6.1 ENLARGED PLAN</p>	<p>MECHANICAL</p> <p>MO.1 MECHANICAL STANDARDS AND DRAWING INDEX M01.10 FIRST LEVEL MECHANICAL TEND PLAN - ZONE 'D' M1.10 FIRST LEVEL MECHANICAL PLAN - ZONE 'D' M7.1 MECHANICAL SCHEDULES</p>	<p>ELECTRICAL</p> <p>EO.1 ELECTRICAL STANDARDS AND DRAWING INDEX EO.2 ELECTRICAL STANDARD SCHEDULES EO.3 FIRST LEVEL ELECTRICAL COMPOSITE PLAN ED1.10 FIRST LEVEL ELECTRICAL DEMOLITION PLAN - ZONE 'D' E2.10 FIRST LEVEL LIGHTING PLAN - ZONE 'D' E3.10 FIRST LEVEL POWER & AUXILIARY SYSTEMS PLAN - ZONE 'D'</p>	<p>PROJECT DATA: LOCATION MAP</p>	<p>BUILDING:</p> <p>BUILDING AREA(S) = 000,000 SQ. FT. (ADDITION) 103,058 SQ. FT. (EXISTING) 103,058 SQ. FT. (TOTAL) 1,012 SQ. FT. (EXISTING ALTERED)</p> <p>CODE:</p> <ul style="list-style-type: none"> - 2016 SCHOOL FIRE SAFETY RULES (2012 Life Safety Code, plus amendments) - 2015 MICHIGAN BUILDING CODE - 2015 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS - 2015 MICHIGAN PLUMBING CODE - 2015 MICHIGAN MECHANICAL CODE - 2009 MICHIGAN UNIFORM ENERGY CODE (ANSI/ASHRAE/ESNA Standard 90.1-2007) - 2017 MICHIGAN ELECTRICAL RULES (2017 NEC, plus Part 8 Rules) - 2010 MICHIGAN ELEVATOR RULES (ASME A17.1-2010; ASME A18.1-2011) - MICHIGAN BARRIER FREE CODE (Michigan Building Code 2015 and ICC A117.1-2009) - 2013 MICHIGAN BOILER CODE RULES (ASME Boiler and Pressure Vessel Code, 2010 edition, plus 2011a addenda) (National Board Inspection Code [NBIC], 2011 edition) <p>CONSTRUCTION CLASSIFICATION: II-B(MBC)/11(000)NFPA USE GROUP CLASSIFICATION: E-EDUCATION</p>
<p>CIVIL ENGINEER</p> <p>PETER BASSO ASSOCIATES INC. ELECTRICAL ENGINEERS 5145 LIVERNOIS ROAD, SUITE 100 TROY, MICHIGAN 48068-3276 PHONE: (248) 879-5666 FAX: (248) 879-0007</p> <p>CONSULTANT</p> <p>PETER BASSO ASSOCIATES INC. ELECTRICAL ENGINEERS 5145 LIVERNOIS ROAD, SUITE 100 TROY, MICHIGAN 48068-3276 PHONE: (248) 879-5666 FAX: (248) 879-0007</p>	<p>CONSULTANT</p> <p>CONSULTANT</p>	<p>LANDSCAPE</p> <p>FOOD SERVICE EQUIPMENT</p>					<p>ADDRESS: SMITH MIDDLE SCHOOL 5835 DONALDSON TROY, MI 48085</p>	<p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>1-15-2021 CONSTRUCTION DOCUMENTS DATE ISSUED FOR:</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
Details

ISSUE DATES

1-15-2021 CONSTRUCTION DOCUMENTS

DATE ISSUED FOR:

DRAWN

CHECKED

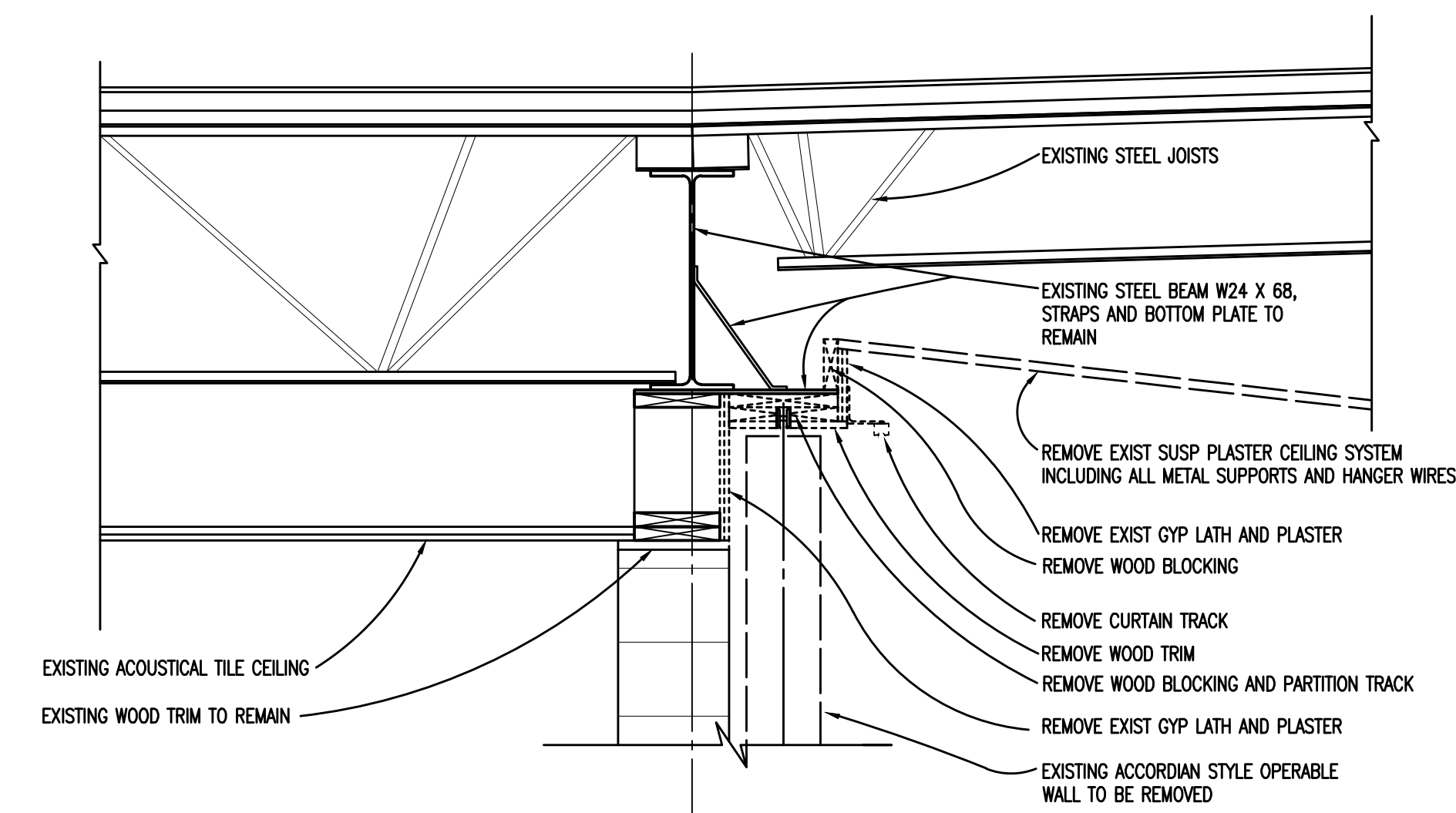
APPROVED

PROJECT NO.

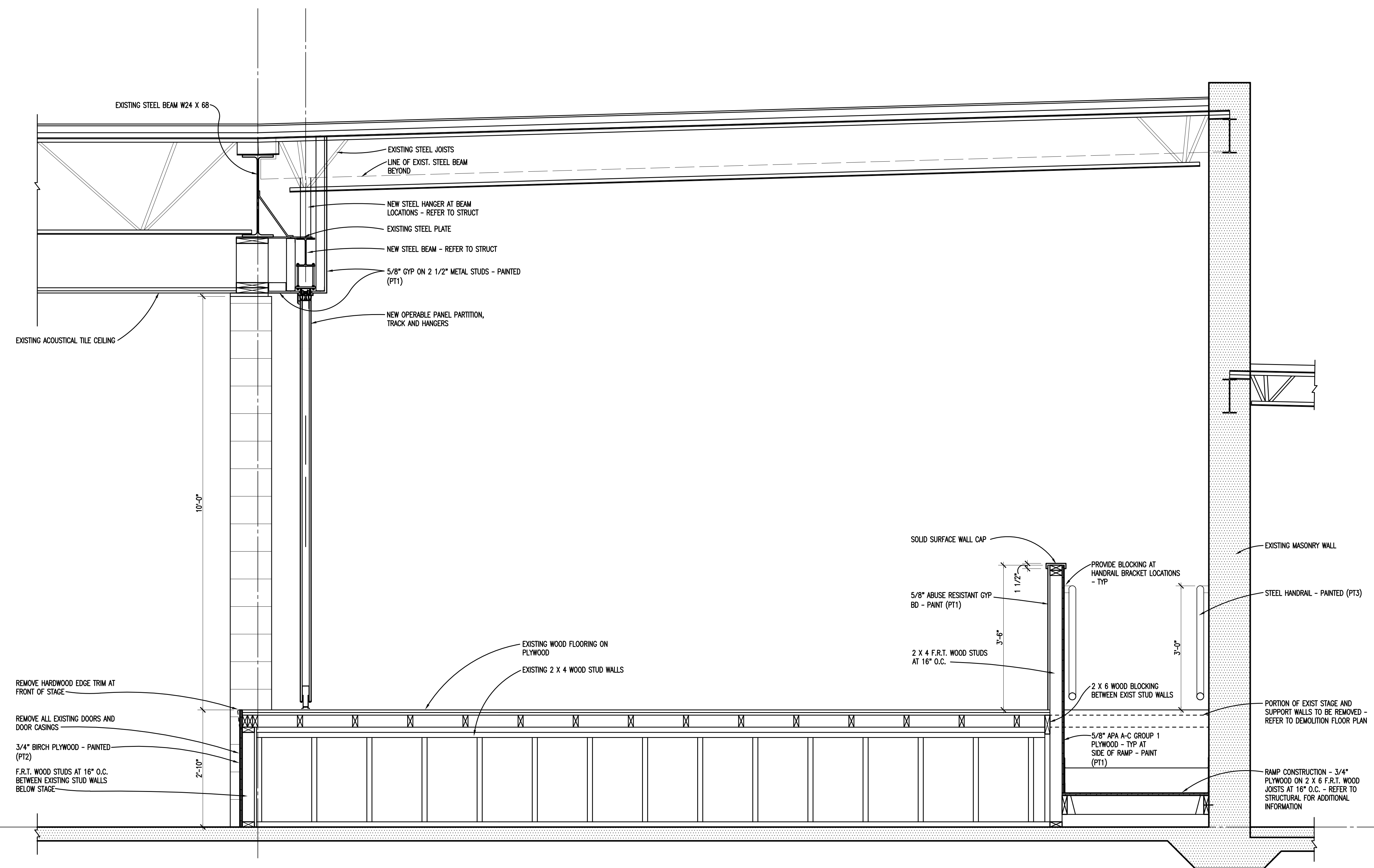
13172G

DRAWING NO.

A4.1



2
 A0.1D
 WALL SECTION - DEMOLITION
 SCALE: 3/4" = 1'-0"



1
 A6.1
 WALL SECTION
 SCALE: 3/4" = 1'-0"

STRUCTURAL GENERAL NOTES

GENERAL

- THIS BUILDING HAS BEEN DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE, 2015 EDITION.
- 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:
 - STEEL
 - STEEL SPECIAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH AISC 300.
 - WOOD.
- 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.
- 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.
- 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 NECESSARY AND MAKE APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIAL.
- THE CONTRACTOR SHALL SUBMIT STRUCTURAL STEEL SHOP DRAWINGS PRIOR TO FABRICATION. THE CONTRACTOR SHALL ALSO SUBMIT MATERIAL REQUIREMENTS AND CONCRETE MIX DESIGNS. ALLOW (2) WEEKS FOR ENGINEER REVIEW.
- 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.
- 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

- 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.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ERECTION PROCEDURE AND SEQUENCING AND TO SUBMIT WRITTEN PROCEDURES TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENTS DURING ERECTION.
- 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.
- 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 INTERFERENCES WITH NEW WORK.

DIVISION 5 - STRUCTURAL STEEL

- THE LATEST REVISION OF THE FOLLOWING CODES GOVERN THE DESIGN, DETAILING, FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL.
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) AISC 360, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
 - AISC 303, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM MATERIAL SPECIFICATIONS:
 - W AND WT SHAPES: ASTM A992, GRADE 50 (Fy = 50 KSI).
 - MISCELLANEOUS SHAPES AND PLATES: ASTM A36 (Fy = 36 KSI).
 - PIPE: ASTM A53, GRADE B, TYPE E OR S (Fy = 35 KSI).
 - HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE B (Fy = 46 KSI).
 - ALL COLUMN ANCHOR RODS SHALL BE ASTM F1554 (Fy = 36 KSI).
- 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 AS 1 OR AS 5 SHALL BE USED FOR SHIELDED METAL ARC METHOD & F7X E70XX FLUX ELECTRODE COMBINATION CONFORMING TO AWS A5.17 FOR SUBMERGED ARC METHOD.
- 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.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING SIZES, DESIGN VALUES, MATERIALS, DIMENSIONS AND CONNECTIONS.
- 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.
- PROVIDE "SLIP-CRITICAL" CONNECTIONS AT BRACING, WHERE BOLTS ARE IN TENSION AND AT MOMENT CONNECTIONS.
- 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.
- 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.
- ALL FIELD CONNECTIONS SHALL BE BOLTED UNLESS NOTED OTHERWISE. FIELD WELDING IS NOT ALLOWED EXCEPT WHERE SPECIFICALLY INDICATED OR APPROVED.
- PROVIDE 3/4" DIAMETER SHOULDER BOLTS WITH LOCK WASHERS AT ALL SLOTTED CONNECTIONS OF WIND COLUMNS OR AS NOTED.
- 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.
- ALL BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER UP. PROVIDE CAMBERS AS INDICATED ON THE DRAWINGS.
- 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.
- PRIME PAINT ALL STRUCTURAL STEEL WITH FABRICATOR'S STANDARD LEAD AND CHROMATE-FREE, NONASPHALTIC, RUST-INHIBITING PRIMER COMPLYING WITH MASTER PAINTER INSTITUTE (MPI) #75. APPLY PRIMER ACCORDING TO THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND AT RATE RECOMMENDED BY SSPC TO 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.
- 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.
- 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.
- 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.
- PROVIDE L3x3x1/4 SHELF ANGLES AT TOPS OF COLUMNS AS REQUIRED TO SUPPORT ROOF DECK.
- 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.
- ALL FREE EDGES OF METAL DECK SHALL BE SUPPORTED WITH AN EDGE ANGLE L3x3/4 OR OTHER SUITABLE SUPPORT. THIS SHALL BE PROVIDED WHETHER SHOWN ON DRAWINGS OR NOT.
- ALL BEAMS, JOISTS, OR LINTELS BEARING ON MASONRY WALLS SHALL HAVE BEARING PLATES WITH ANCHOR BOLTS, IF NOT NOTED ON PLAN, SEE TYPICAL DETAILS.
- 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.
- ALL STEEL IN EXTERIOR MASONRY WALLS IS TO BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A-193.

DIVISION 6 - WOOD FRAMING

- THE LATEST REVISION OF THE FOLLOWING CODES & STANDARDS GOVERN THE DESIGN, MANUFACTURING AND CONSTRUCTION OF WOOD FRAMING:
 - AMERICAN WOOD COUNCIL (AWC) NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION, ANSIAWC NDS.
 - IBC CHAPTER 20, WOOD.
 - AWC WOOD DETAILS FOR CONSTRUCTIONAL WOOD FRAMED CONSTRUCTION.
 - AMERICAN PLYWOOD ASSOCIATION (APA) PANEL DESIGN SPECIFICATION.
- WOOD FRAMING SIZES, FIRESTOPS, ANCHORAGE AND CONNECTORS NOT SHOWN ON THE DOCUMENTS SHALL BE PER THE MINIMUM REQUIREMENTS IDENTIFIED IN IBC CHAPTER 23, WOOD.
- FLOOR SHEATHING SHALL BE 3/4" THICK T & G EXPOSURE 1, PANEL INDEX 48/24 CONFORMING TO U.S. PS-1 AND STAMPED WITH DFWA GRADE-TRADEMARK.
 - FLOOR SHEATHING PANELS SHALL BE NAILED TO SUPPORTS WITH 10d COMMON NAILS.
 - NAIL SPACING SHALL BE 6" O.C. AT PANEL EDGES & 10" O.C. AT INTERMEDIATE SUPPORTS.
- WALL SHEATHING SHALL BE 5/8" THICK, APA RATED SHEATHING, EXPOSURE 1, PANEL INDEX 32/16 AND STAMPED WITH DFWA GRADE-TRADEMARK.
 - STANDARD WALL SHEATHING PANELS SHALL BE NAILED TO SUPPORTS WITH 10d COMMON NAILS.
 - NAIL SPACING SHALL BE 3" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS.
- ALL STRUCTURAL LUMBER SHALL BE OF THE FOLLOWING MINIMUM GRADES AND ALLOWABLE STRESSES OR EQUIVALENT AS PER NDS. MOISTURE CONTENT IS TO BE 19% MAX.
 - STUDS: HEM FIR STRUCTURAL GRADE NO. 2 OR BETTER
 - BEAMS: 2"x4" THICK HEM FIR STRUCTURAL GRADE NO. 2 OR BETTER
 - POSTS: SAME AS STUDS
 - PLATE STOCK: SAME AS STUDS
- ALL ENGINEERED WOOD PRODUCTS SHALL BE MANUFACTURED BY TRUS JOIST A WEYERHAEUSER COMPANY (OR APPROVED EQUAL) AS FOLLOWS:
 - LAMINATED VERTICAL LUMBER (LVL), MINIMUM PROPERTIES:
 - E = 1,900,000 PSI
 - F_b = 2900 PSI
 - F_v = 285 PSI
 - PARALLEL STAND LUMBER (PSL), MINIMUM PROPERTIES:
 - E = 2,000,000 PSI
 - F_b = 2900 PSI
 - F_v = 290 PSI
- ALL LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED TESTING AGENCY.
- ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY OR EXPOSED TO WEATHER SHALL BE TREATED LUMBER.
- FRAMED OPENING: DOUBLE STUD FOR OPENINGS LESS THAN 4' WIDE, TRIPLE STUD FOR OPENINGS 4' WIDE OR MORE.
- 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 PLATE.
- ALL FLUSH BEAMS SHALL BE SUPPORTED BY APPROVED HANGER.
- WHERE NOTED ON DETAILS, CONTRACTOR SHALL PROVIDE CONNECTORS FOR WOOD CONSTRUCTION AS MANUFACTURED BY SIMPSON STRONG-TIE THE 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.
- 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.
- ROOF FRAMING LAYOUTS ARE PROVIDED TO ILLUSTRATE CONDITIONS OF CONSTRUCTION AND DO NOT NECESSARILY INDICATE SPECIFIC QUANTITIES OF MATERIALS OR COMPONENTS REQUIRED FOR CONSTRUCTION.
- 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)
RISK CATEGORY III.
- ROOF DEAD LOADS**
- EPDM 1 PSF
 - INSULATION 1 PSF
 - GYPSPUM ROOF DECK 8 PSF
 - STRUCTURAL STEEL 4 PSF
 - CILING GAP 2 PSF
 - MECHANICAL AND ELECTRICAL 4 PSF
 - MISCELLANEOUS 3 PSF
 - TOTAL 23 PSF**
- ROOF LIVE LOADS**
- MINIMUM LOAD 20 PSF
- SNOW LOADS**
- IMPORTANCE FACTOR I_s = 1.1
 - GROUND SNOW LOAD P_g = 25 PSF
 - STRUCTURAL EXPOSURE FACTOR C_e = 1.0
 - THERMAL FACTOR C_t = 1.0
 - FLAT USE SNOW P_f = 20 PSF (TYPICAL ROOF)
 - SNOW DRIFT PER ASCE 7
- WIND LOADS**
- BASIC WIND SPEED 120 MPH (3 SEC GUST)
 - EXPOSURE CATEGORY B
 - COMPONENTS AND CLADDING PER ASCE 7
- SEISMIC DESIGN DATA**
- SITE CLASS D
 - RESPONSE COEFFICIENTS SD₁ = 0.093 SD₂ = 0.072
 - SEISMIC DESIGN CATEGORY B

ABBREVIATIONS

- | | |
|--------|---------------------------|
| @ | AT |
| ADDL | 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 |
| B.O.T. | BOTTOM OF TRUSS |
| B.S. | BOTH SIDES |
| BM | BEAM |
| BOTT | BOTTOM |
| C.L. | CENTER LINE |
| CL | CONTROL JOINT |
| COL | COLUMN |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| CSJ | CONSTRUCTION JOINT |
| DET | DETAIL |
| DI | DIAMETER |
| DIAG | DIAGONAL |
| DM | DIMENSION |
| DL | DEAD LOAD |
| DWG | DRAWING |
| EA | EACH |
| EQ | EQUAL |
| EX | EXISTING |
| F.S. | FAR SIDE |
| FL | FLOOR |
| F.V. | FIELD VERIFY |
| FIN | FINISH |
| FLG | FLANGE |
| FLR | FLOOR |
| FDN | FOUNDATION |
| FT | FOOT |
| FTG | FOOTING |
| GA | GAGE |
| 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 |
| NT.S. | NOT TO SCALE |
| NO | NUMBER |
| O.C. | ON CENTER |
| PC | PIECE |
| PL | PLATE |
| PLCS | PLACES |
| PSF | POUNDS PER SQUARE FOOT |
| P.S.I. | POUNDS PER SQUARE INCH |
| SECT | SECTION |
| SM | SMILAR |
| 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 |
| U.N.O. | UNLESS NOTED OTHERWISE |
| VERT | VERTICAL |
| W.P. | WORK POINT |
| WI | WITH |
| WWR | WELDED WIRE REINFORCEMENT |



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REGISTRATION SEAL

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ENGINEERS | ARCHITECTS | SURVEYORS

PROJECT TITLE
Smith Middle School Stage Upgrade Bid Package No 32

Troy School District Troy, Michigan

DRAWING TITLE
Structural General Notes



ISSUE DATES

01-15-2021 CONSTRUCTION DOCUMENTS

DATE: ISSUED FOR:

DRAWN: D. BART

CHECKED: J. BOUWENS

APPROVED: E. MANNOR

PROJECT NO.

13172G

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REGISTRATION SEAL

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 ENGINEERS | ARCHITECTS | SURVEYORS

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

Troy School District
 Troy, Michigan

DRAWING TITLE
**Foundation Plan -
 Zone 'D'**



KEY PLAN

ISSUE DATES

01-15-2021 CONSTRUCTION DOCUMENTS

DATE: ISSUED FOR:

DRAWN: D. BART

CHECKED: J. BOUWENS

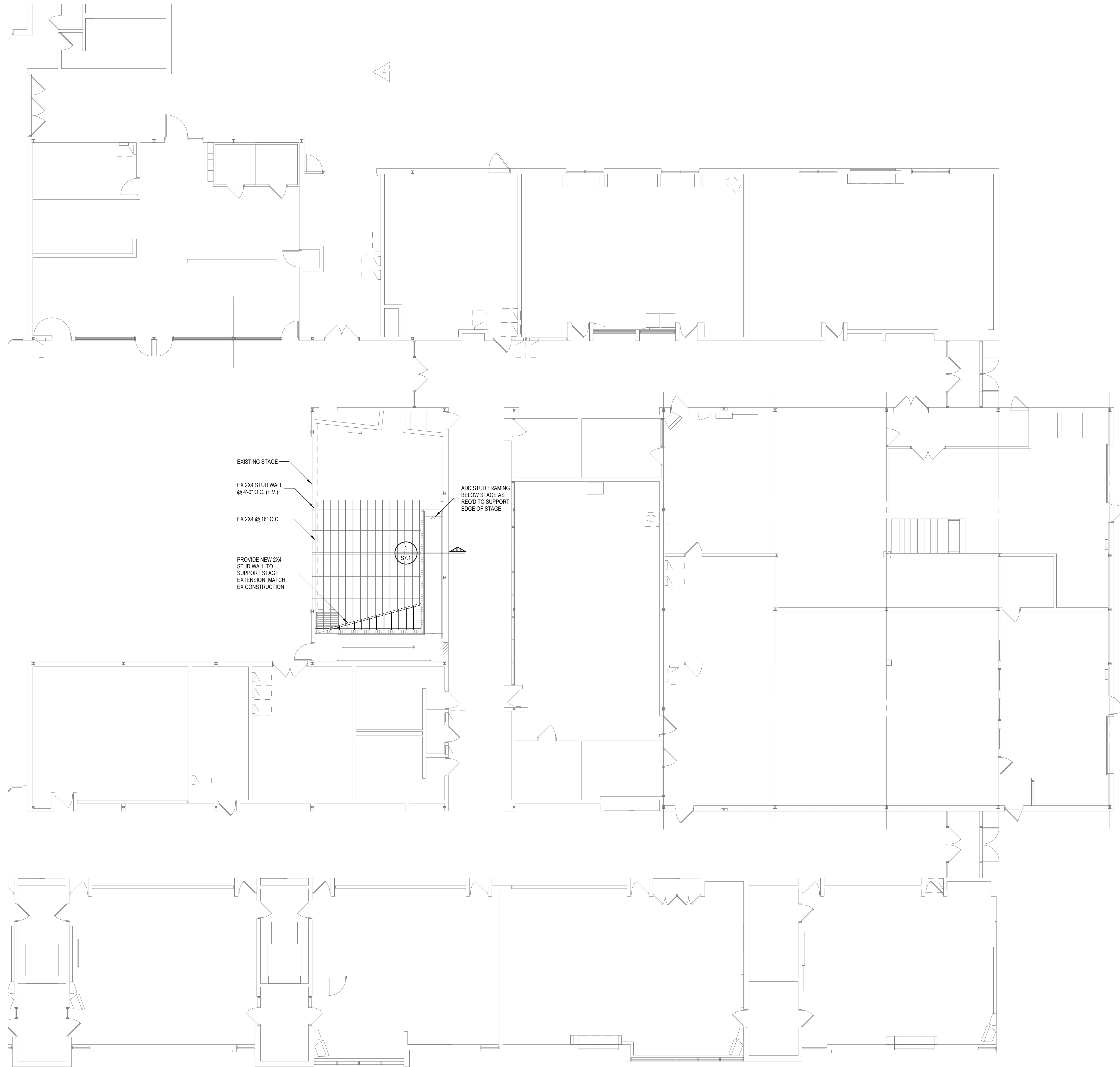
APPROVED: E. MANNOR

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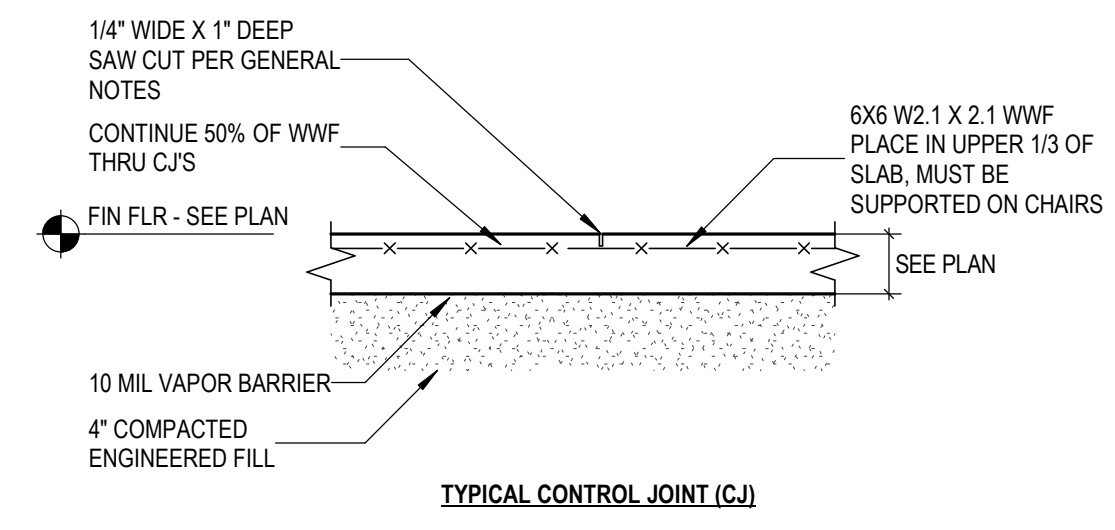
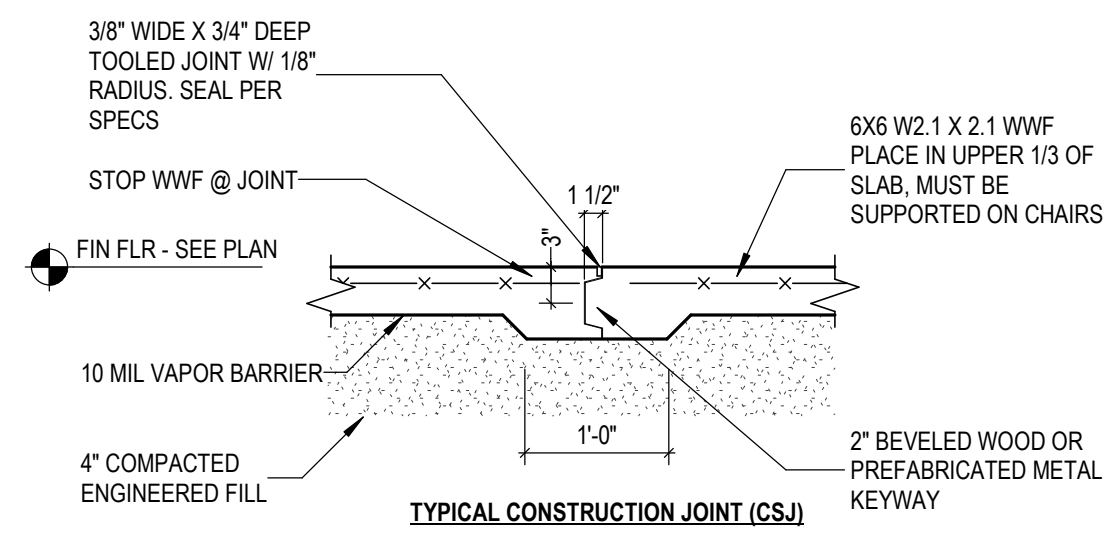
DRAWING NO.

S1.0D



FOUNDATION PLAN - ZONE 'D'
 SCALE: 1/8" = 1'-0"

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1 TYPICAL SLAB ON GRADE
S4.1 NOT TO SCALE



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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
Concrete Details



ISSUE DATES

01-15-2021 CONSTRUCTION DOCUMENTS

DATE: ISSUED FOR:

DRAWN: D. BART

CHECKED: J. BOUWENS

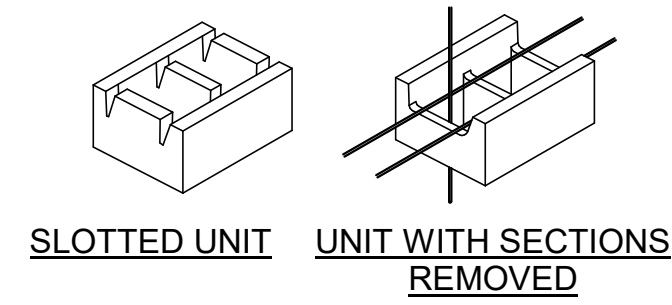
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13172G

DRAWING NO.
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NOTE:

BETWEEN GROUT POURS A HORIZ CONST JT SHALL BE FORMED BY STOPPING ALL WYTHES AT THE SAME ELEV AND WITH GROUT STOPPING A MINIMUM OF 1 1/2" BELOW A MORTAR JT EXCEPT AT TOP OF WALL.



NOTE:

KNOCKOUT SLOTS MAY BE CAST IN UNIT WHEN MOLDED OR CUT OUT WITH A MASONRY SAW AFTER UNIT HAS BEEN CURED

STEEL IN BOND BEAM IS SET IN PLACE AS WALL IS LAID UP.

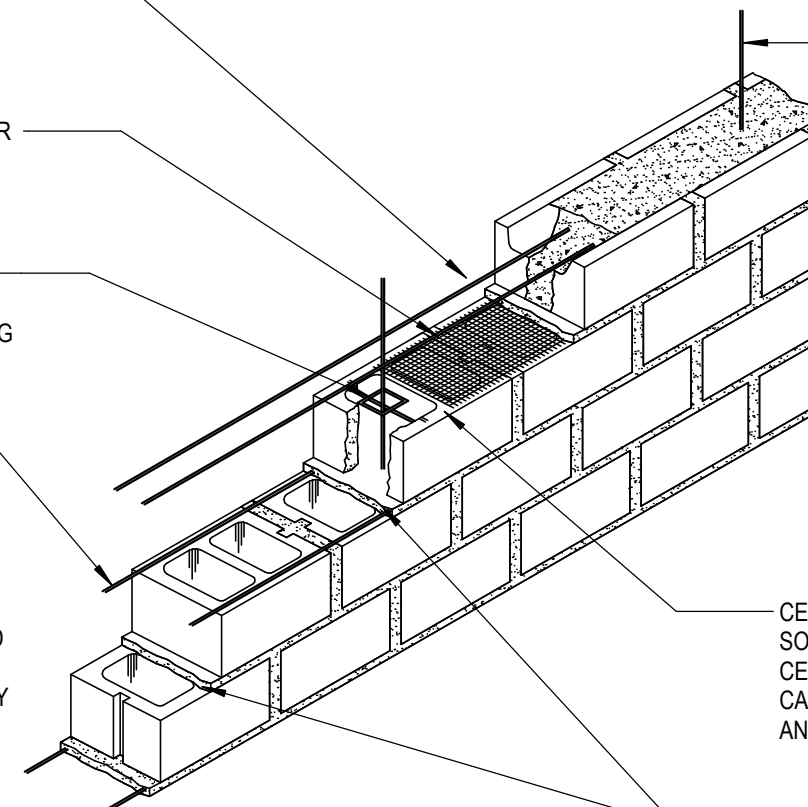
PLACE METAL LATH OR WIRE SCREEN UNDER BOND BEAM TO CONFINE GROUT.

VERTICAL STEEL LAP AS PER GENERAL NOTES HOLD VERT REINF IN POSITION W/ PREFAB REBAR POSITIONER @ MAX SPACING OF 192 BAR DIAMETERS.

PREFABRICATED JT REINF PER GENERAL NOTES & SPECS

NOTE: HIGH LIFT GROUTING SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 530.1 SPECIFICATIONS FOR MASONRY STRUCTURES. CLEANOUTS SHALL BE PROVIDED AND INSPECTED.

NOTE: LOW LIFT-GROUTING TECHNIQUE: GROUT IS PLACED IN LIFTS UP TO 5'-0"

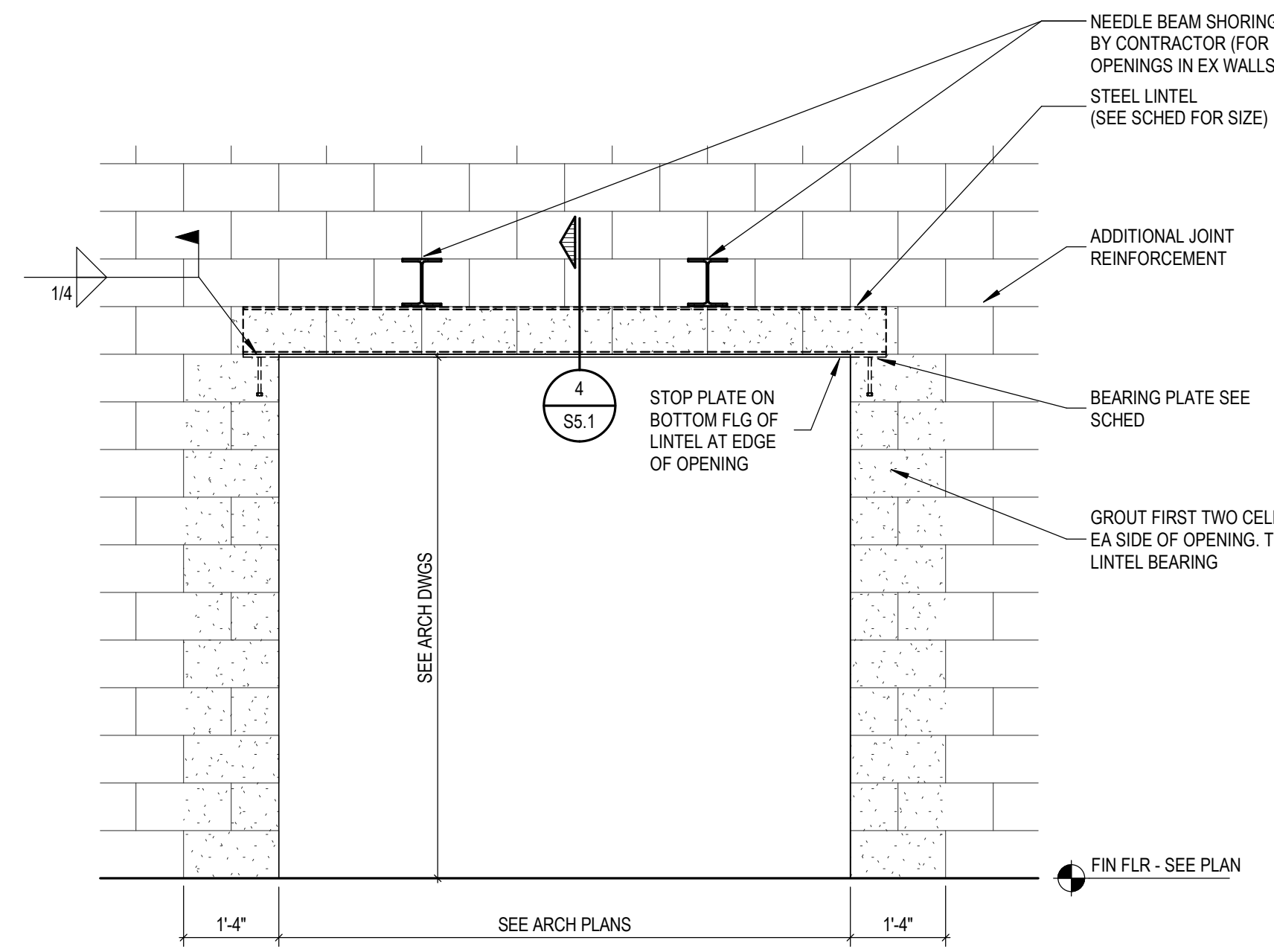


ALL MASONRY WALLS ARE TO BE REINFORCED PER THE DRAWINGS. LAP REINF W/ TYP FOOTING DOWEL. SEE GENERAL NOTES FOR ADDITIONAL REINFORCEMENT REQ'D AT OTHER LOCATIONS.

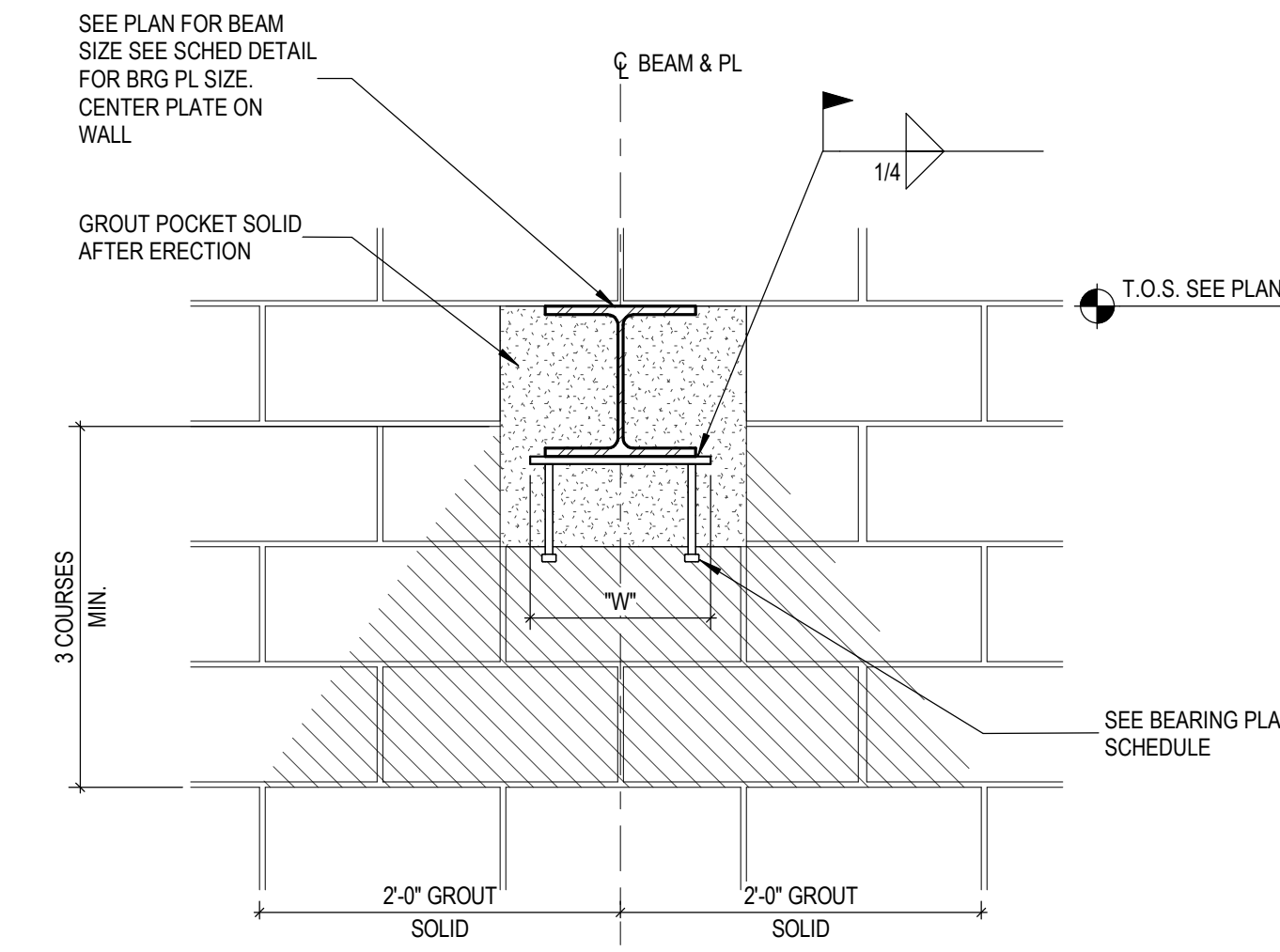
CELLS CONTAINING STEEL ARE FILLED SOLID WITH COARSE GROUT. VERTICAL CELLS SHOULD PROVIDE A CONTINUOUS CAVITY, FREE OF MORTAR DROPPINGS, AND AT LEAST 2 1/2" X 3" IN SIZE.

PLACE MORTAR ON CROSS WEBS ADJACENT TO CELLS WHICH WILL BE GROUTED TO PREVENT LEAKAGE.

1 **LOW LIFT-GROUTING TECHNIQUE**
S5.1 NOT TO SCALE

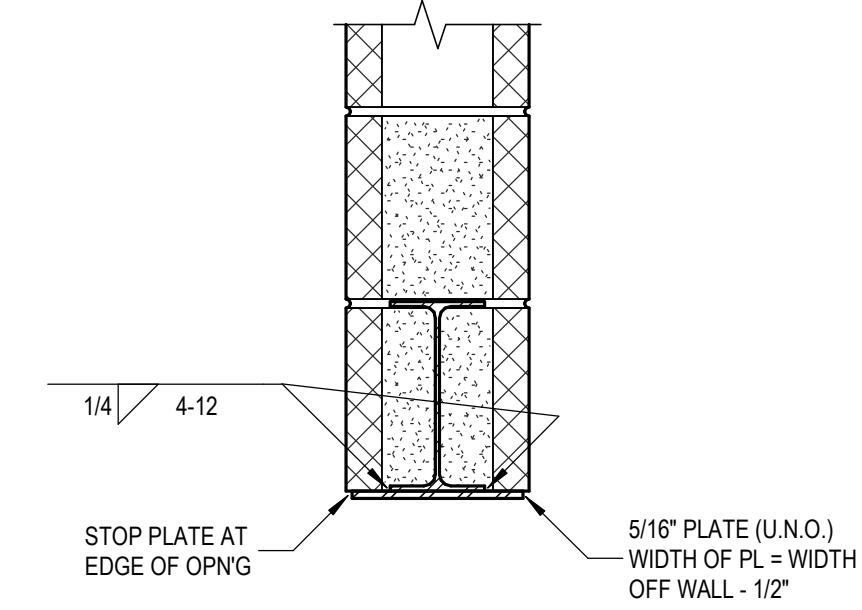


2 **TYP MASONRY OPENING W/ STL LINTEL**
S5.1 NOT TO SCALE



3 **TYP BEAM PERPENDICULAR TO WALL**
S5.1 NOT TO SCALE

NOTES:
1. SHORE EXISTING CMU WALL AS REQUIRED.
2. GROUT SOLID BELOW BEARING PLATE.



4 **STEEL LINTEL DETAIL**
S5.1 SCALE: 1 1/2" = 1'-0"



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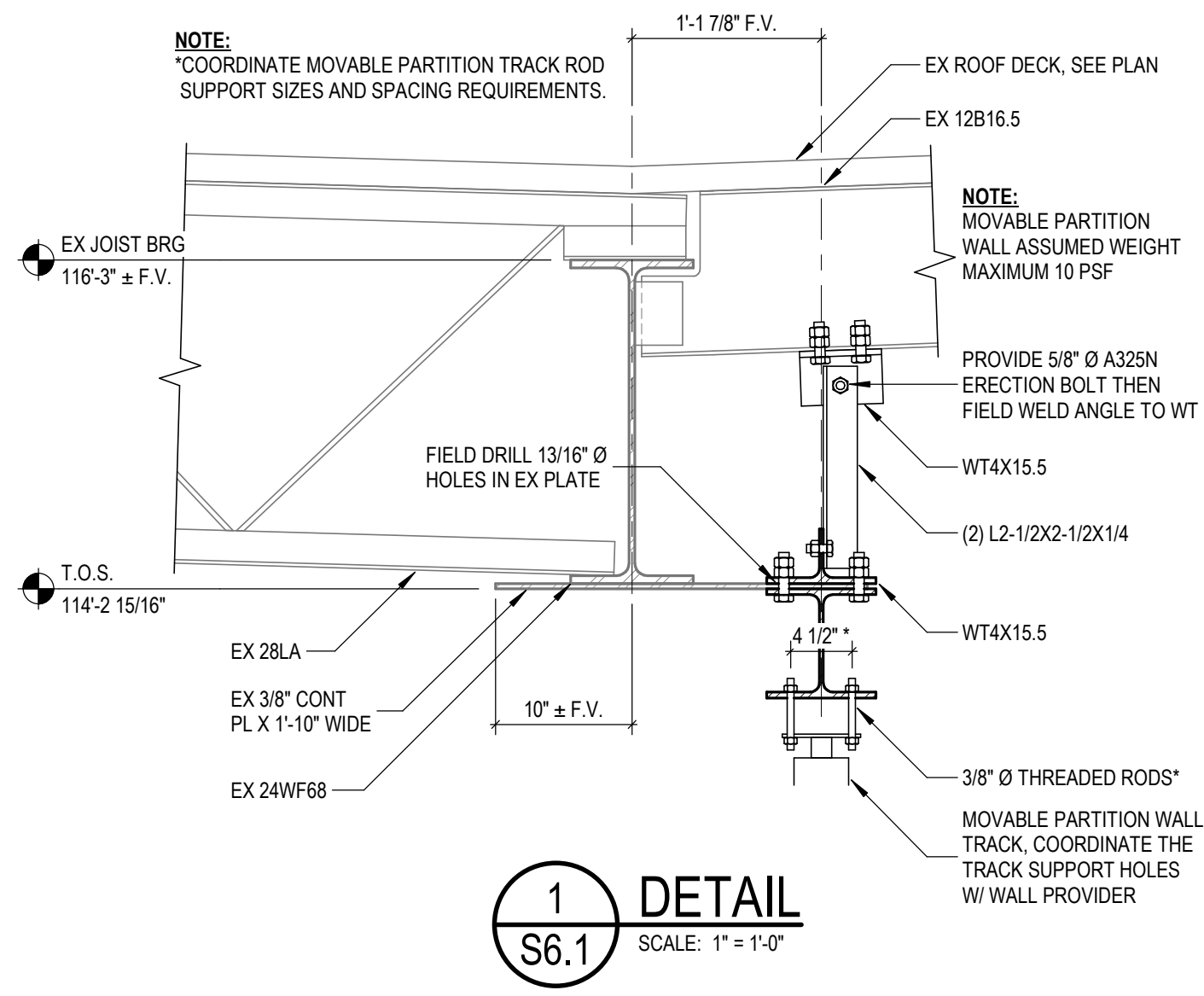
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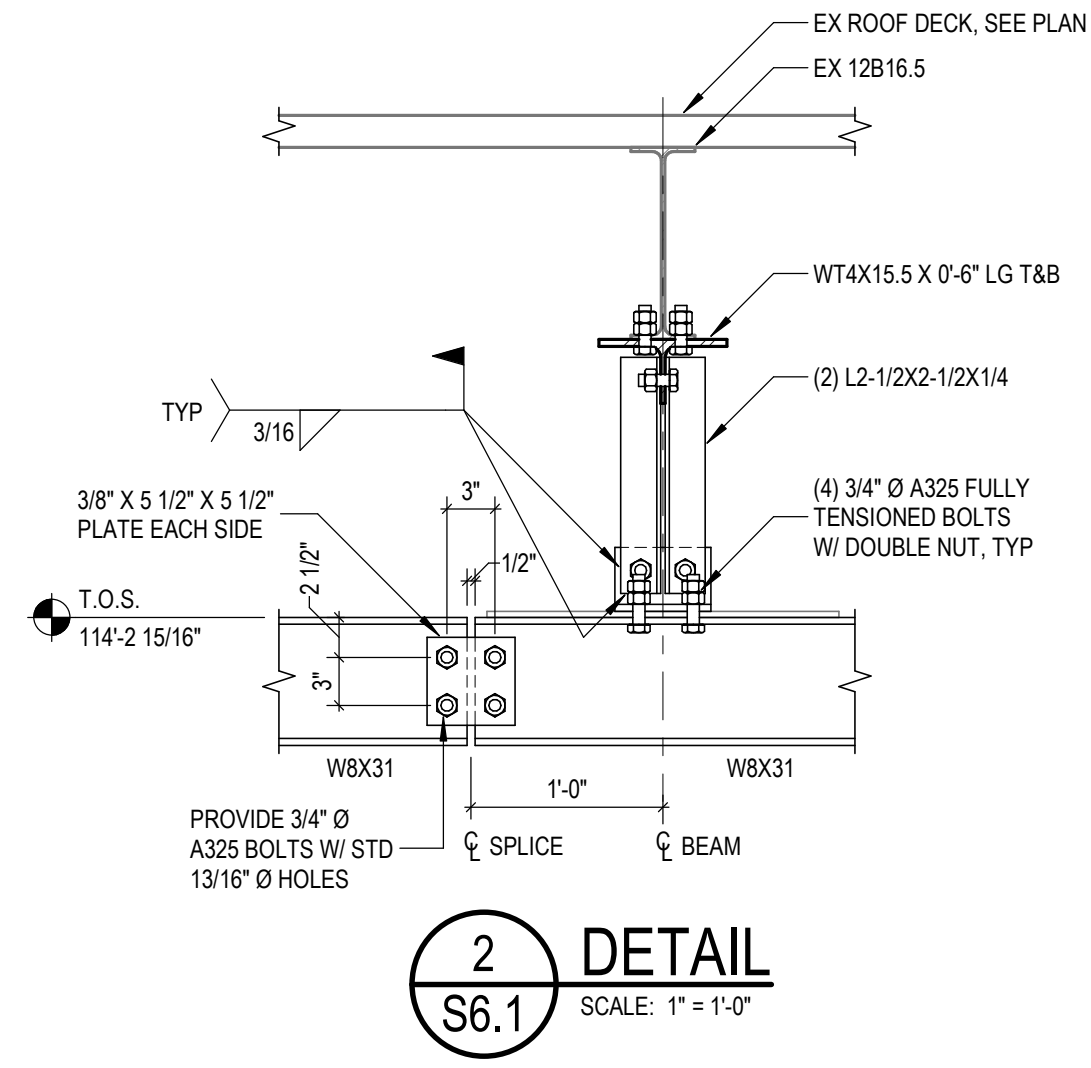
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PROJECT NO.
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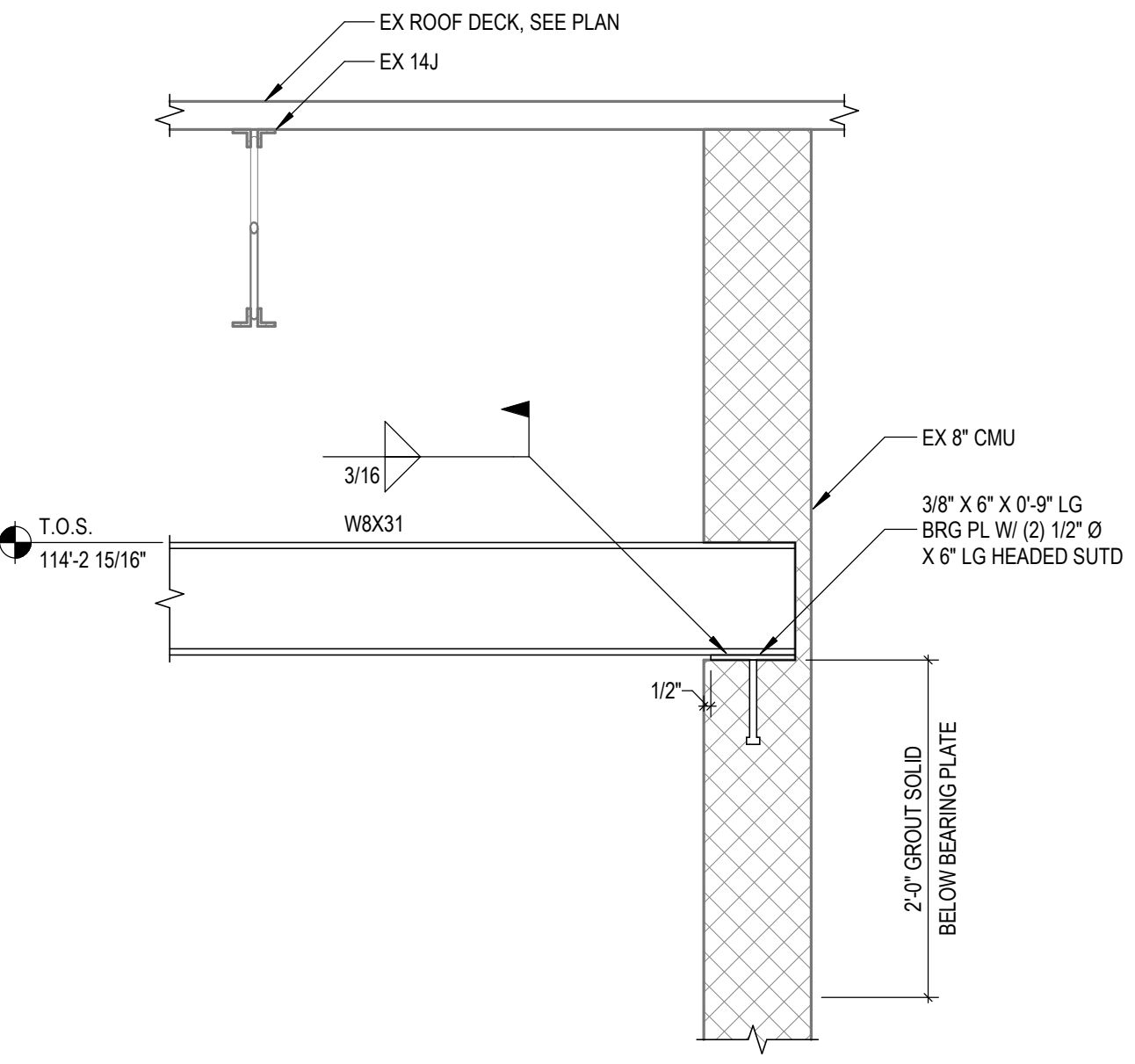
DRAWING NO.
S5.1



1 DETAIL
S6.1 SCALE: 1" = 1'-0"



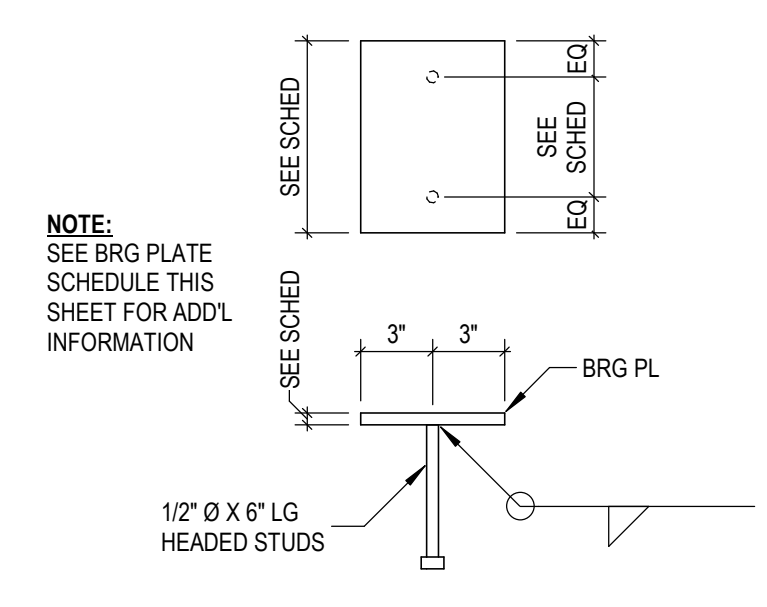
2 DETAIL
S6.1 SCALE: 1" = 1'-0"



3 DETAIL
S6.1 SCALE: 1" = 1'-0"

BEARING PLATE SCHEDULE		
BM/JOIST OR MARK	SIZE	REMARKS
WB, W10, & W12	3/8" X 6" X 0" W/ (2) 1/2" Ø X 6" LG HEADED STUDS (GA = 6")	SEE 4/S6.1

STEEL LINTEL SCHEDULE		
MARK	SIZE	DETAIL
L-1	WBX10 + 5/16" PL	4/S6.1



4 TYP BRG PL DETAIL
SCALE: 1 1/2" = 1'-0"



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Troy, Michigan

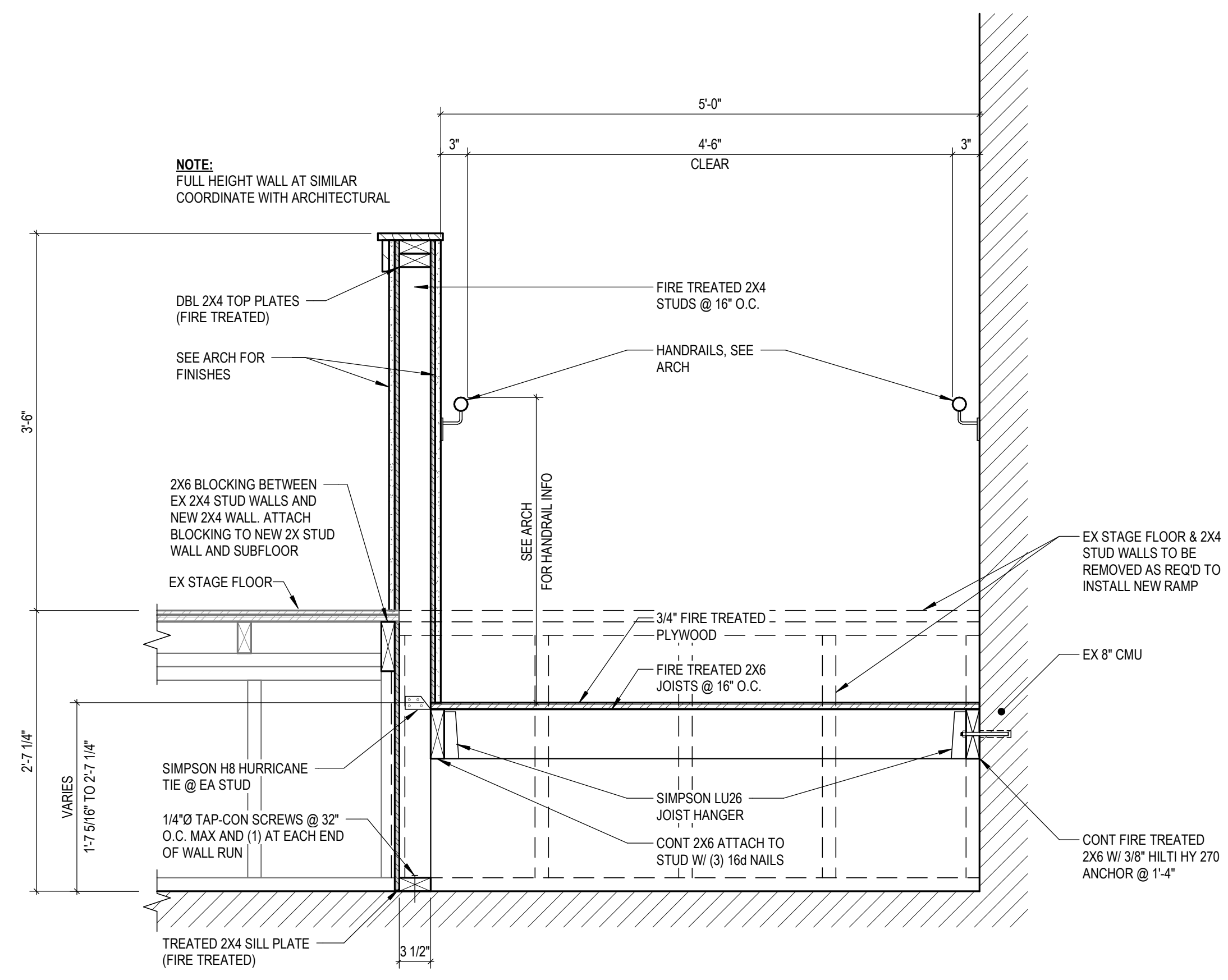
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Steel Details



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1 RAMP CROSS SECTION
 S7.1 SCALE: 1" = 1'-0"



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PROJECT TITLE
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 Stage Upgrade
 Bid Package No 32**

Troy School District
 Troy, Michigan

DRAWING TITLE
Timber Details



ISSUE DATES

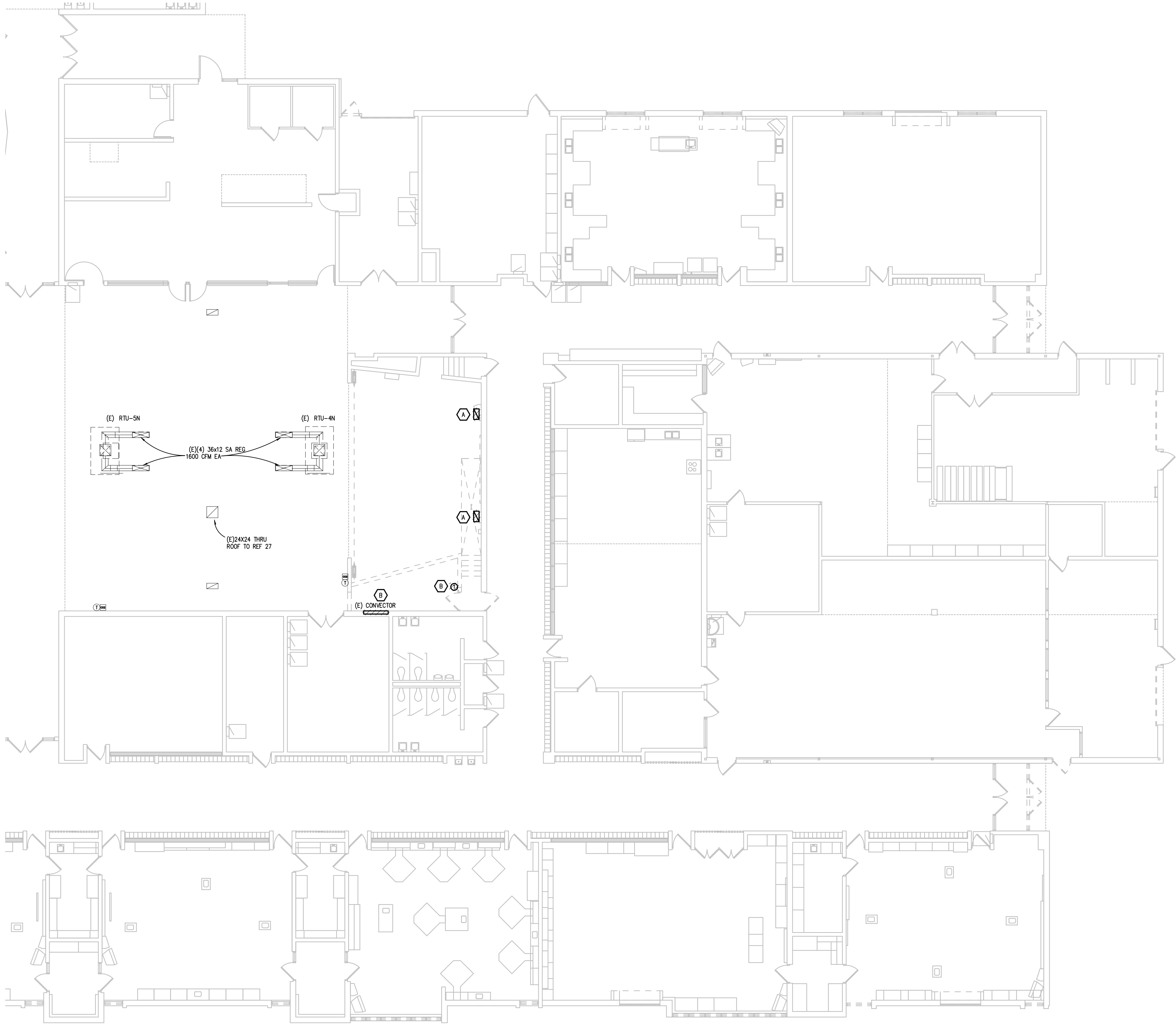
01-15-2021 CONSTRUCTION DOCUMENTS

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 CHECKED: J. BOUWENS
 APPROVED: E. MANNOR

PROJECT NO.
13172G
 DRAWING NO.
S7.1

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



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

MECHANICAL GENERAL DEMOLITION NOTES:

1. 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 HWV PIPING AND CONTROL COMPLETE. CAP HWV PIPING IN CONCEAL MANNER.

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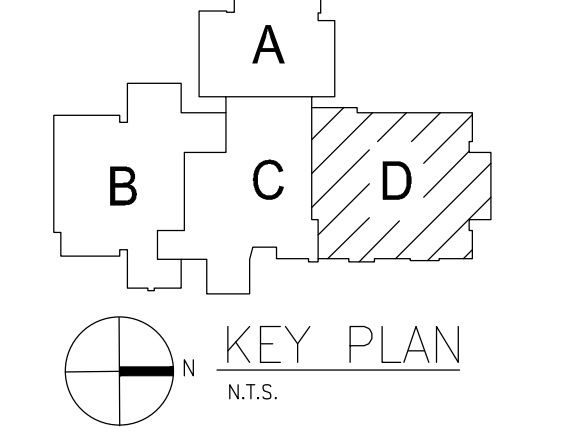
CONSULTANT

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PBA Project No.: 2013.0408 BP32

PROJECT TITLE
Smith Middle School Stage Upgrade Bid Package No 32

Troy School District
Troy, Michigan

DRAWING TITLE
FIRST FLOOR MECHANICAL DEMOLITION PLAN - ZONE 'D'



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CHECKED: KLH
APPROVED: SVM

PROJECT NO.
13172G
DRAWING NO.
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\\pba.local\projects\2013\2013-0406-00\Cad\BP-32\2013-0406-02-M1-DP1.dwg, M01D, 1/14/2021 11:04:14 AM, Suha A. Matti, None .0.13289, Peter Basso Associates Inc.

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	

NOTE:
1. MODEL NUMBERS ARE PRICE UNLESS OTHERWISE NOTED.

DUCT SYSTEM APPLICATION SCHEDULE	
	DUCT MATERIAL
AIR SYSTEMS	
RETURN AIR WITHOUT TERMINAL UNITS	X
	(80 GALV. SHEET METAL DOUBLE-WALL LINED (80 GALV. SHEET METAL (SOLID INNER WALL) DOUBLE-WALL LINED (80 GALV. SHEET METAL (PERF. INNER WALL) (80 GALV. SHEET METAL WITH 1-INCH LINING GALVANNEALD SHEET METAL ALUMINUM TYPE 304 STAINLESS STEEL TYPE 316 STAINLESS STEEL PVC COATED GALV. SHEET METAL (104) PVC COATED GALV. SHEET METAL (104) PVC COATED GALV. SHEET METAL (404) 16 GA. CARBON STEEL 20% CLEARANCE PREFABRICATED RANGE HOOD EXHAUST DUCT FABRIC DESIGN PRESSURE CLASS (INCHES WG) SEAL CLASS MAX. ALLOWABLE LEAKAGE RATE (PERCENT)
	KEYED NOTES

GENERAL NOTES

- "X" INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
- 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.
- 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 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.

KEYED NOTES

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.
- REFER TO ELECTRICAL STANDARD SCHEDULES, ONE LINE DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL ELECTRICAL INFORMATION
 - 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
 - C - SERVICE RECEPTACLE
 - D - FUSED DISCONNECT SWITCH
 - E - COMBINATION STARTER
 - 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.
 - 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.
 - 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.
 - 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.
 - 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 THE UNIT.
 - 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.
 - 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 POSITION.
 - 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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Smith Middle School Stage Upgrade Bid Package No 32

Troy School District
 Troy, Michigan

DRAWING TITLE
MECHANICAL SCHEDULES

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 DRAWN: AK
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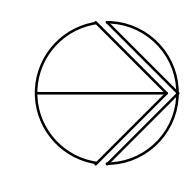
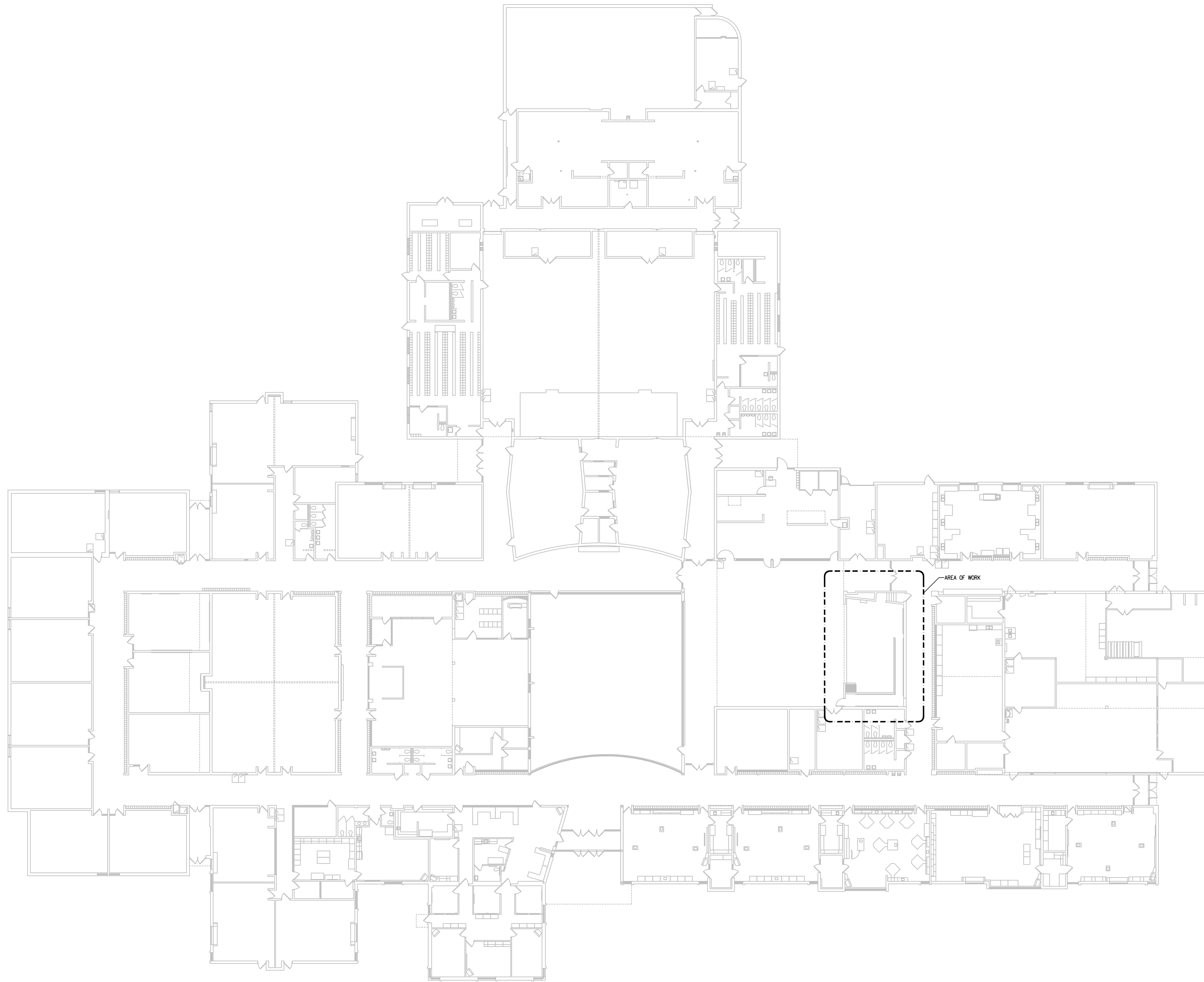
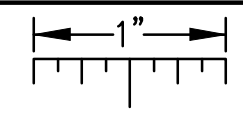
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M7.1

ELECTRICAL SYMBOL LIST

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

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
FX (NL)	FIXTURE TYPE (NL INDICATES NIGHT LIGHT)	TWC	TWO-WAY COMMUNICATION SYSTEM CALL STATION	CP	CONTROL PANEL	SC	SECURITY CAMERA
[]	LIGHTING FIXTURE	TWC2	TWO-WAY COMMUNICATION SYSTEM AUTO DIALER	M	MOTOR	SD	SMOKE DETECTOR
[]	DIRECT/INDIRECT LIGHTING FIXTURE	TWCA	TWO-WAY COMMUNICATION SYSTEM ANNUNCIATOR & COMMUNICATION PANEL	VFC	VARIABLE FREQUENCY CONTROLLER	DD	DUCT SMOKE DETECTOR
[]	EMERGENCY FIXTURE	TWCP	TWO-WAY COMMUNICATION SYSTEM POWER SUPPLY WITH BATTERY BACK-UP	MC	MANUAL CONTROLLER	CO	CARBON MONOXIDE DETECTOR
[]	LIGHTING FIXTURE	TWCP2	TWO-WAY COMMUNICATION SYSTEM POWER SUPPLY WITH BATTERY BACK-UP	MC2	MAGNETIC CONTROLLER	RT	REMOTE TEST STATION (FOR DUCT DETECTOR)
[]	WALL MOUNTED LIGHTING FIXTURE	TWCP3	TWO-WAY COMMUNICATION SYSTEM AUTO DIALER POWER SUPPLY WITH BATTERY BACK-UP	CM	COMBINATION MAGNETIC CONTROLLER	TD	THERMAL DETECTOR
[]	LIGHTING FIXTURE	RCP	REMOTE GENERATOR ANNUNCIATOR PANEL	NS	NON-FUSIBLE DISCONNECT SWITCH	BD	PROJECTED BEAM DETECTOR
[]	DIRECTIONAL LIGHTING FIXTURE	ATS	AUTOMATIC TRANSFER SWITCH	FS	FUSIBLE DISCONNECT SWITCH	FB	FIRE ALARM BELL
[]	PENDANT LIGHTING FIXTURE	UPS	UNINTERRUPTIBLE POWER SUPPLY	CB	ENCLOSED CIRCUIT BREAKER	FB2	FIRE ALARM AUDIBLE NOTIFICATION APPLIANCE
[]	WALL SCONCE	CSX	LOW VOLTAGE CONTROL STATION "X" INDICATES TYPE	PBS	PUSH BUTTON STATION	PR	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
[]	LIGHTING TRACK			J	JUNCTION BOX	DO	DOOR OPERATOR
[]	TRACK LIGHTING FIXTURE			HWC	HARD WIRE POWER CONNECTION	DA	DOOR ACTUATOR
[]	POLE MOUNTED LIGHTING FIXTURE			GR	GROUND ROD	AC	ACCESS CONTROL STATION
[]	POLE MOUNTED LIGHTING FIXTURE - POST TOP			CC	GROUND CONNECTION	ACCP	ACCESS CONTROL CONTROL PANEL
[]	BOLLARD LIGHTING FIXTURE			HH	HANDHOLE	ACPS	ACCESS CONTROL POWER SUPPLY
[]	EMERGENCY LIGHTING UNIT				CONDUIT SLEEVE WITH BUSHINGS LENGTH AS REQUIRED "X" INDICATES CONDUIT SIZE		
[]	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)				CONDUIT UP		
[]	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)				CONDUIT DOWN		
[]	EXIT LIGHTING FIXTURE - WALL MOUNTED				EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET		
[]	EXIT/EMERGENCY LIGHTING COMBO				ABOVE COUNTER EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET		
[]	BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH				EMPTY BOX FOR FUTURE CEILING MOUNTED TELECOMMUNICATION OUTLET "X" INDICATES TYPE		
[]	AUTOMATIC LOAD CONTROL RELAY				ABOVE COUNTER TELECOMMUNICATION OUTLET "X" INDICATES TYPE		
[]	LIGHTING CONTROL DEVICE - REFER TO LIGHTING CONTROL SCHEDULE				TELECOMMUNICATION CEILING MOUNTED OUTLET "X" INDICATES TYPE		
[]	ROOM CONTROL DESIGNATION - REFER TO LIGHTING CONTROL SCHEDULE				TELECOMMUNICATION BACKBOARD		
[]	SINGLE POLE TOGGLE SWITCH				TELECOMMUNICATION GROUNDING BUS BAR		
[]	TWO POLE TOGGLE SWITCH				TELECOMMUNICATION MAIN GROUNDING BUS BAR		
[]	3 WAY TOGGLE SWITCH				INTERCOM OUTLET		
[]	4 WAY TOGGLE SWITCH				SPEAKER		
[]	KEY OPERATED SWITCH				SPEAKER - WALL MOUNTED		
[]	3 WAY KEY OPERATED SWITCH				MICROPHONE		
[]	4 WAY KEY OPERATED SWITCH				VOLUME CONTROL/STATION SELECTOR		
[]	DIMMER SWITCH				SIGNALING BELL		
[]	3 WAY DIMMER SWITCH				SINGLE FACE CLOCK - CEILING MOUNTED		
[]	DIMMER OCCUPANCY SENSOR SWITCH				SINGLE FACE CLOCK - WALL MOUNTED		
[]	LOW VOLTAGE DIMMER SWITCH				SINGLE FACE CLOCK - WALL MOUNTED		
[]	PILOT SWITCH				DOUBLE FACE CLOCK - CEILING MOUNTED		
					DOUBLE FACE COMBINATION CLOCK/SPEAKER CEILING MOUNTED		
					DOUBLE FACE CLOCK - WALL MOUNTED		
					DOUBLE FACE COMBINATION CLOCK/SPEAKER WALL MOUNTED		
					TIME CLOCK		
					CONTACTOR		
					PHOTOCELL		
					OCCUPANCY SENSOR "X" INDICATES TYPE		
					OCCUPANCY SENSOR		
					POKE-THROUGH ASSEMBLY "X" INDICATES TYPE		
					FLOOR SERVICE FITTING "X" INDICATES TYPE		
					ACCESS FLOOR SERVICE FITTING "X" INDICATES TYPE		
					CORD REEL "X" INDICATES TYPE		
					DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES		
					3-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES		
					4-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES		
					DIGITAL TIME SWITCH		
					ILLUMINATED TOGGLE SWITCH FOR CONTROL OF LIGHTING ON CRITICAL POWER-ILLUMINATED WHEN SWITCH IS IN "OFF" POSITION		
					LOW VOLTAGE SWITCH		
					OCCUPANCY SENSOR REFER TO ELECTRICAL STANDARD SCHEDULES		
					OCCUPANCY SENSOR		
					OCCUPANCY SENSOR "X" INDICATES TYPE		
					POLE MOUNTED LIGHTING FIXTURE - POST TOP		
					QUAD TAMPER RESISTANT RECEPTACLE		
					ABOVE COUNTER DUPLEX RECEPTACLE (SIMILAR FOR TAMPER RESISTANT, QUADS, EMERGENCY AND GFI RECEPTABLES)		
					DUPLEX RECEPTACLE-GROUND FAULT CIRCUIT INTERRUPTER		
					DUPLEX EMERGENCY RECEPTACLE		
					DUPLEX TAMPER RESISTANT RECEPTACLE		
					QUAD TAMPER RESISTANT RECEPTACLE		
					ABOVE COUNTER DUPLEX TAMPER RESISTANT RECEPTACLE		
					DUPLEX UPS RECEPTACLE		
					DUPLEX RECEPTACLE WITH 2 USB PORTS		
					4 PORT USB CHARGING STATION		
					CEILING MOUNTED DUPLEX RECEPTACLE		
					POWER POLE		
					SPECIAL RECEPTACLE - REFER TO ELECTRICAL STANDARD SCHEDULES		
					MULTI-OUTLET RACEWAY		
					MULTI-SERVICE DROP SEE ELECTRICAL DETAILS AND DIAGRAMS SHEET "X" INDICATES TYPE		
					POKE-THROUGH ASSEMBLY "X" INDICATES TYPE		
					FLOOR SERVICE FITTING "X" INDICATES TYPE		
					ACCESS FLOOR SERVICE FITTING "X" INDICATES TYPE		
					CORD REEL "X" INDICATES TYPE		
					DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES		
					3-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES		
					4-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES		
					DIGITAL TIME SWITCH		
					ILLUMINATED TOGGLE SWITCH FOR CONTROL OF LIGHTING ON CRITICAL POWER-ILLUMINATED WHEN SWITCH IS IN "OFF" POSITION		
					LOW VOLTAGE SWITCH		
					OCCUPANCY SENSOR REFER TO ELECTRICAL STANDARD SCHEDULES		
					OCCUPANCY SENSOR		
					OCCUPANCY SENSOR "X" INDICATES TYPE		
					POLE MOUNTED LIGHTING FIXTURE - POST TOP		
					QUAD TAMPER RESISTANT RECEPTACLE		
					ABOVE COUNTER DUPLEX RECEPTACLE (SIMILAR FOR TAMPER RESISTANT, QUADS, EMERGENCY AND GFI RECEPTABLES)		
					DUPLEX RECEPTACLE-GROUND FAULT CIRCUIT INTERRUPTER		
					DUPLEX EMERGENCY RECEPTACLE		
					DUPLEX TAMPER RESISTANT RECEPTACLE		
					QUAD TAMPER RESISTANT RECEPTACLE		
					ABOVE COUNTER DUPLEX TAMPER RESISTANT RECEPTACLE		
					DUPLEX UPS RECEPTACLE		
					DUPLEX RECEPTACLE WITH 2 USB PORTS		
					4 PORT USB CHARGING STATION		
					CEILING MOUNTED DUPLEX RECEPTACLE		
					POWER POLE		
					SPECIAL RECEPTACLE - REFER TO ELECTRICAL STANDARD SCHEDULES		
					MULTI-OUTLET RACEWAY		
					MULTI-SERVICE DROP SEE ELECTRICAL DETAILS AND DIAGRAMS SHEET "X" INDICATES TYPE		
					POKE-THROUGH ASSEMBLY "X" INDICATES TYPE		
					FLOOR SERVICE FITTING "X" INDICATES TYPE		
					ACCESS FLOOR SERVICE FITTING "X" INDICATES TYPE		
					CORD REEL "X" INDICATES TYPE		
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THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



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



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PBA Project No.: 2013.0406 BP.32

PROJECT TITLE

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

Troy School District
Troy, Michigan

DRAWING TITLE

**FIRST FLOOR ELECTRICAL
COMPOSITE PLAN**

ISSUE DATES

1-15-2021 CONSTRUCTION DOCUMENTS

DATE: ISSUED FOR:

DRAWN ZDB

CHECKED ZDB

APPROVED GJZ

PROJECT NO.

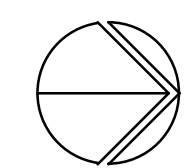
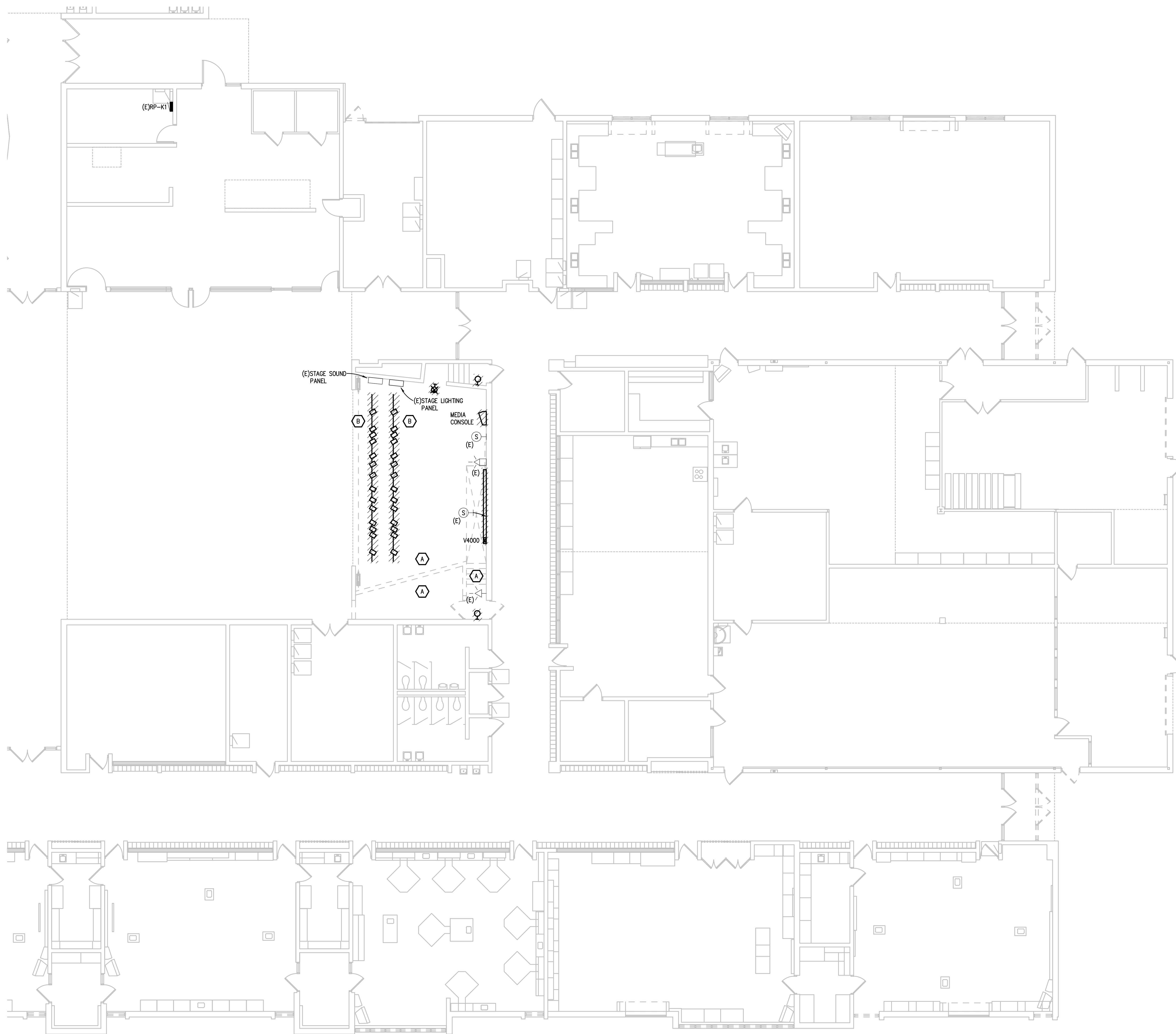
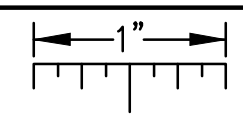
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THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



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.
3. 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 TOLP 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.
10. 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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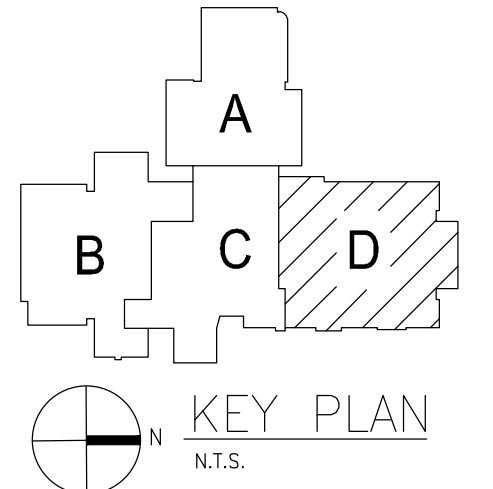


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PBA Project No.: 2013.0406 BP32

PROJECT TITLE
Smith Middle School Stage Upgrade Bid Package No 32

Troy School District
Troy, Michigan

DRAWING TITLE
FIRST FLOOR ELECTRICAL DEMOLITION PLAN - ZONE 'D'



ISSUE DATES

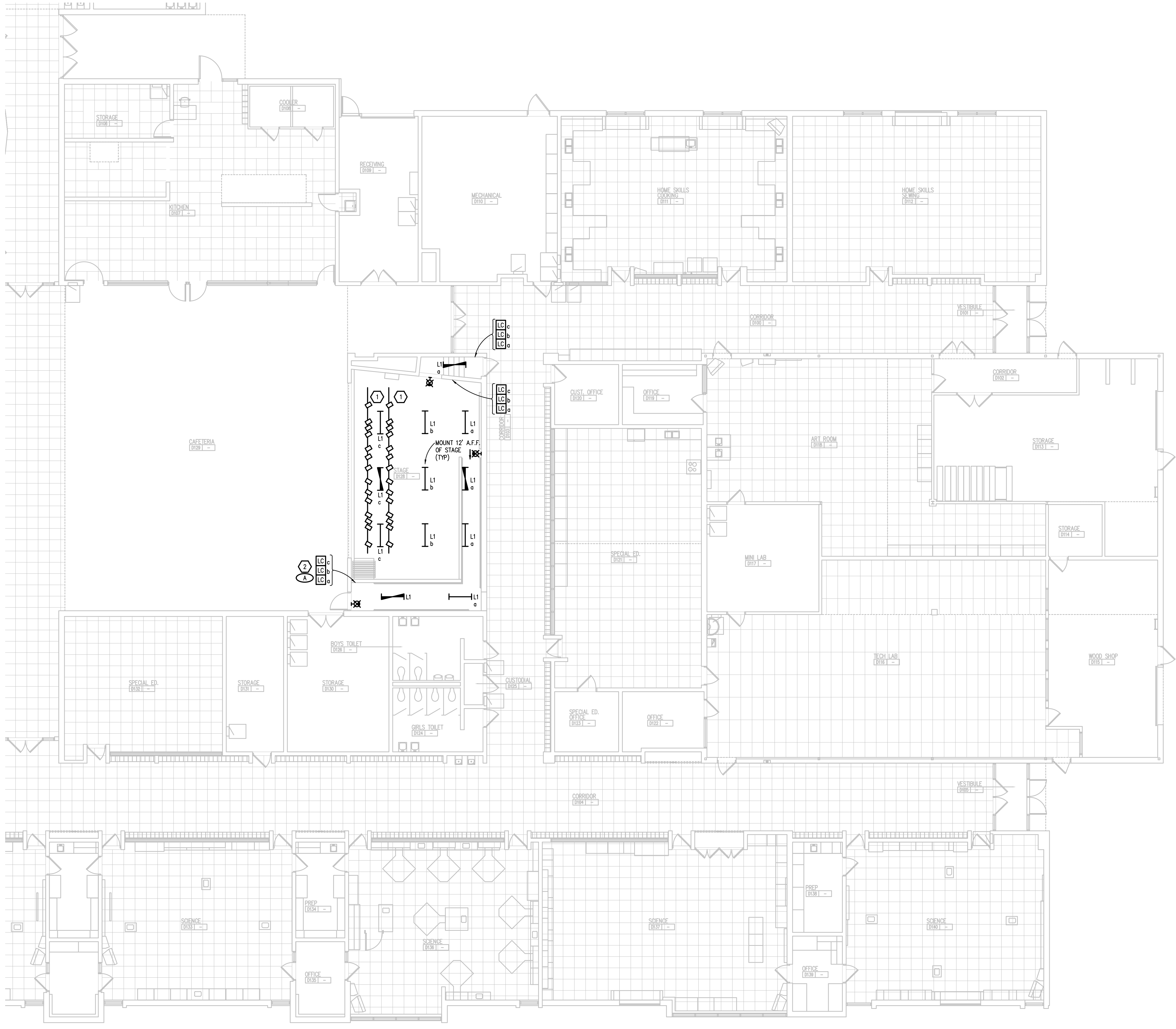
1-15-2021 CONSTRUCTION DOCUMENTS

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CHECKED: ZDB	
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PROJECT NO.
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THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



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

ELECTRICAL GENERAL NOTES:

1. 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 TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
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-AM 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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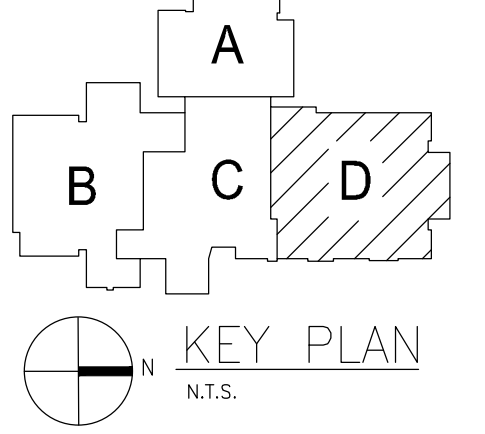


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PROJECT TITLE
Smith Middle School Stage Upgrade Bid Package No 32

Troy School District
Troy, Michigan

DRAWING TITLE
FIRST FLOOR LIGHTING NEW WORK PLAN - ZONE 'D'



ISSUE DATES

1-15-2021 CONSTRUCTION DOCUMENTS

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APPROVED: GJZ	

PROJECT NO.
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THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



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

ELECTRICAL GENERAL NOTES:

1. 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 WITH INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
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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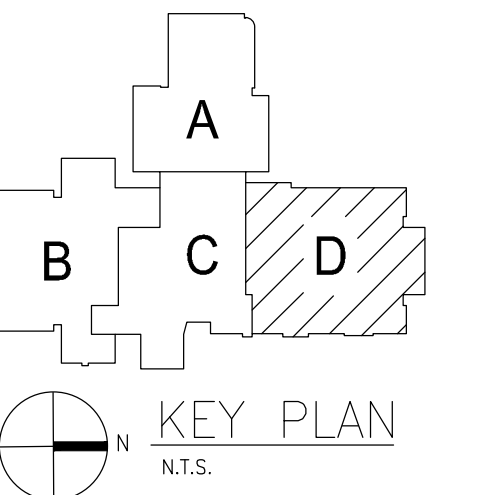


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PROJECT TITLE
Smith Middle School Stage Upgrade Bid Package No 32

Troy School District
Troy, Michigan

DRAWING TITLE
FIRST FLOOR POWER NEW WORK PLAN - ZONE 'D'



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