Z:\00-DWG\21-4514 2022 Sinking Fund Projects, Big Bay de Noc Schools, Cooks, MI\21_4514 ZZ Pressbox\21-4514_Press Box COVER SHEET 34x22.dwg | 1/5/2023 8:36:16 AM

PROJECT TITLE:

Big Bay de Noc School

Pressbox and Concessions Building Renovation

Cooks, Michigan

OWNER:

Big Bay de Noc School District
8928 00.25 Road
Cooks, Michigan 49817

DESIGNER:

Dynamic Design Group, inc.
Engineers—Architects—Project Managers
ddm design document manage
Dynamic Design Group, inc.
P.O. Box 1064
900 1st Ave. So., Ste. A Escanaba, MI
ph.: 906.786.3300 fax: 906.233.7391
email: gen@ddgi-ddm.com
www.ddgi-ddm.com

SHEET INDEX

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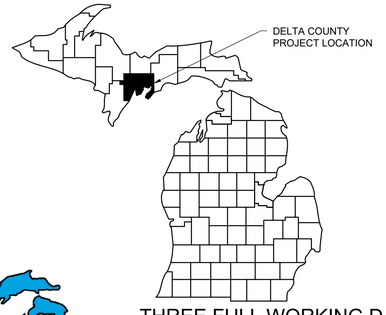
1 SITE AERIAL VIEW N.T.C. PLAN NORTH

LOCATION MAP/S



811 MISS DIG System, Inc. www.missdig.org 1-800-482-7171

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1-(800)-482-7171 OR 811

BUILDING AND CODE DATA

CODES REFERENCED:
- 2012 NFPA 101 - LIFE SAFETY CODE
- 2015 MICHIGAN BUILDING CODE
- 2015 MICHIGAN MECHANICAL CODE
- 2018 MICHIGAN PLUMBING CODE
- 2017 NATIONAL ELECTRIC CODE (NEC)
- 2009 ICC/ANSI A117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
- 2015 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS

BUILDING DATA:
BUILDING: =183 SF UPPER LEVEL
=160 SF LOWER LEVEL
343 SF

SPACE USE:
UPPER LEVEL : PRESS BOX
LOWER LEVEL: SALE OF PREPACKAGED FOODS AND DRINKS.

BUILDING CODE DATA:

Code	Chapter	Section/Table	Allowable/Code Req'd.	Actual/Proposed	Remarks
MBC	3	302 Classification		A-5	
	6	602 Types of Construction		VB	
	9	903 Auto. Sprinkler System		no	
MBC	10	Section 1015 No. of Exits Req'd.		1 EA LEVEL	
MBC	10	Table 1004.1.2 Floor Area/Occupant		4 persons	

STATE OF MICHIGAN
DANIEL SCOTT BLOCK
ENGINEER
No. 58378
LICENSED PROFESSIONAL ENGINEER
05-13-2022

21-4514
SET DATE: 05-13-2022
REBID DATE: 01-09-2023

FOR REVIEW FOR CONSTRUCTION

G0.1

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NOTES & GENERAL NOTES

1. GENERAL

1.1. THE WORD "CONTRACTOR" MEANS, THE PRIME CONTRACTOR OR THE CONTRACTOR SCHEDULED TO PERFORM THE WORK.

1.2. CONTRACTOR AND ALL SUBCONTRACTORS SHALL FAMILIARIZE HIMSELF WITH THE ENTIRE SET OF CONSTRUCTION DOCUMENTS AND MAKE HIMSELF AWARE OF OTHER DISCIPLINES WORK THAT MAY AFFECT HIS.

1.3. CONTRACTOR AND ALL SUBCONTRACTORS SHALL VISIT THE BUILDING SITE AND MAKE HIMSELF AWARE OF CONDITIONS THAT MAY AFFECT HIS WORK.

1.4. CONTRACTOR IS RESPONSIBLE FOR AND SHALL INCLUDE PROVISIONS IN HIS BID FOR COORDINATING WORK BETWEEN OTHER TRADES.

1.5. CONTRACTOR AND ALL SUBCONTRACTORS SHALL COMPLETELY REVIEW EVERY DRAWING AND SPECIFICATION TO HAVE A COMPLETE UNDERSTANDING OF THE ENTIRE PROJECT AND THE WORK THAT MAY BE AFFECTED BY HIS WORK AND THE WORK OF OTHER DISCIPLINES THAT MAY AFFECT HIS WORK.

1.6. DO NOT SCALE DRAWINGS. USE DIMENSIONS AND ELEVATIONS PROVIDED. IF DIMENSIONS AND ELEVATIONS ARE IN QUESTION, CONTRACTOR SHALL CONTACT THE OFFICE OF THE ENGINEER BEFORE CONTINUING WITH WORK.

1.7. EACH CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND ELEVATIONS AT THE SITE. NEITHER THE OWNER NOR DYNAMIC DESIGN GROUP, INC. ASSUMES RESPONSIBILITY FOR CONDITIONS OR DIMENSIONS THAT ARE EXISTING OR SHOWN AS EXISTING. IF EXISTING ITEMS ARE DIMENSIONED - DIMENSIONS ARE FOR BIDDING PURPOSES ONLY AND SHALL BE VERIFIED BY CONTRACTOR.

1.8. ALL HOLES FOR HVAC CONDUITS, PIPING, ARE TO BE REPAIRED BY THE ASSOCIATED TRADE. ALL TRADES SHALL TAKE CARE TO MAKE HOLES ONLY AS LARGE AS REQUIRED, ALL HOLES SHALL BE NEATLY CUT.

1.9. HOLES IN WALLS OR FLOORS SHALL BE PROPERLY SEALED.

1.10. FIELD VERIFY ALL DOOR AND WINDOW ROUGH OPENING SIZES PRIOR TO ORDERING OR INSTALLATION.

1.11. WHEN CONTRADICTIONS OCCUR BETWEEN THE PLANS AND THE SPECIFICATIONS AND/OR ERRORS ARE FOUND IN EITHER, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE OFFICE OF THE ENGINEER BEFORE CONTINUING WITH CONSTRUCTION.

1.12. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS, THE CURRENT MICHIGAN BUILDING CODES, ALL LOCAL ORDINANCES AND NORMAL INDUSTRY STANDARDS.

1.13. CONTRACTOR IS TO OBTAIN AND PAY FOR PERMITS, LICENSES, FEES, INSPECTIONS, ETC. AS MAY BE REQUIRED FOR HIS CONTRACTED WORK, FOR COMPLETION OF HIS OWN PORTION OF THE PROJECT.

1.14. CONTRACTOR IS RESPONSIBLE FOR CONTACTING "MISS DIG" PRIOR TO PERFORMING ANY EXCAVATION.

1.15. CONTRACTOR SHALL REMOVE ALL CONSTRUCTION RUBBISH AND DEMOLISHED MATERIALS GENERATED UNDER HIS CONTRACTED PORTION OF THE WORK, FROM THE SITE ON A WEEKLY BASIS AND AT THE END OF THE JOB AND SHALL DISPOSE OF APPROPRIATELY. THE ENTIRE PROJECT SHALL BE LEFT BROOM CLEAN.

1.16. CONTRACTOR SHALL FOLLOW "OCCUPATIONAL SAFETY AND HEALTH ACT" REQUIREMENTS ISSUED BY THE STATE AND LOCAL LAWS, RULES AND REGULATIONS AS THEY APPLY.

1.17. ALL MATERIALS AND EQUIPMENT INCORPORATED INTO THE WORK SHALL BE NEW, UNLESS OTHERWISE APPROVED BY THE OWNER AND ENGINEER.

1.18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE ERECTION AND MAINTENANCE OF ALL BARRICADES, GUARDRAILS, LIGHTS AND SIGNS NECESSARY FOR PUBLIC SAFETY.

1.19. CONTRACTOR SHALL PROVIDE PROTECTION AGAINST RAIN, WIND, STORMS, COLD OR HEAT SO AS TO MAINTAIN ALL WORK, MATERIALS, APPARATUS, EQUIPMENT AND FIXTURES UNDER HIS CONTRACT, INCORPORATED IN THE WORK OR STORED ON SITE FREE FROM INJURY OR DAMAGE. COVER ALL NEW WORK LIKELY TO BE DAMAGED ON A DAILY BASIS. ITEMS WHICH REQUIRE DRY STORAGE SHALL BE STORED IN A DRY BUILDING AND NOT UNDER TARPS.

1.20. PROVIDE LINTELS/HEADERS AS REQUIRED FOR ALL OPENINGS, ETC. WHETHER SPECIFICALLY CALLED OUT ON PLANS OR NOT.

1.21. CONTRACTOR SHALL PROVIDE AS-BUILTS OF ALL WORK AND DISCIPLINES AT THE END OF THE PROJECT BEFORE FINAL PAYMENT IS AUTHORIZED.

1.22. CONTRACTOR SHALL PROVIDE AT LEAST ONE PORTABLE TOILET TO BE USED/SHARED BY ALL WORKERS ON THE JOBSITE.

2. CIVIL

2.1 ALL CONCRETE SLABS ON GRADE AND PAVING SHALL BE PLACED ON WELL COMPACTED UNDISTURBED VIRGIN SOIL OR APPROVED STRUCTURAL FILL AND IT SHALL BE 95% PROCTOR DENSITY OR BETTER.

2.2 ALL EXISTING NATIVE MATERIAL AND/OR APPROVED SUBBASE SHALL BE AGGRESSIVELY COMPACTED PRIOR TO INSTALLING COMPACTED FILL OVER IT TO PREVENT SETTLING DURING THE INSTALLATION OF THE COMPACTED FILL OR SETTLING DURING INSTALLATION OF PAVING, CONCRETE, ETC. CONTRACTOR'S INSTALLATION OF FILL, PAVING, CONCRETE, ETC. OVER THE NATIVE MATERIAL OR SUBBASE IS CONTRACTORS ACCEPTANCE/APPROVAL OF THE NATIVE MATERIAL OR SUBBASE. ALL SETTLING OF ASPHALT, CONCRETE, ETC. THAT IS DUE TO FAULTY NATIVE MATERIAL AND/OR SUBBASE SHALL BE REPAIRED BY THE CONTRACTOR.

3. CIVIL/STRUCTURAL

3.1. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE SOIL CONDITIONS DESCRIBED IN THE DRAWINGS, SPECIFICATIONS (IF PROVIDED) OR THE GEOTECHNICAL REPORT/SOIL BORINGS (IF PROVIDED).

3.2. THE OWNER IS ENCOURAGED TO OBTAIN A GEOTECHNICAL REPORT/SOIL BORINGS. IF NO GEOTECHNICAL REPORT/SOIL BORINGS ARE PROVIDED 2000 PSF SOIL BEARING CAPACITY IS PRESUMED. IF SOILS OTHER THAN SANDY, SANDY GRAVEL, GRAVEL OR (SW, SP, SM, SC, GM or GC) AS DEFINED BY THE 2009 MICHIGAN BUILDING CODE, ARE ENCOUNTERED NOTIFY THE OFFICE OF THE ENGINEER.

3.3. FILL SHALL BE A GRANULAR MATERIAL, FREE FROM DEBRIS AND STONES OVER 4" DIAMETER AND REASONABLY GRADED.

4. STRUCTURAL - GENERAL

4.1. DESIGN LOADS

4.1.1. RISK CATEGORY = II

4.1.2. FLOOR DEAD LOADS = 15 PSF

4.1.3. FLOOR LIVE LOADS

PRESSBOX = 50 PSF

CONCESSIONS = 100 PSF

4.1.4. SNOW LOADS: ASCE 7-10

GROUND SNOW LOAD, Pg = 60 PSF

ROOF SNOW LOAD, Pf = 46 PSF

DRIFT, SLIDING & UNBALANCED LOADS APPLY

EXPOSURE FACTOR, Ce = 1.0

THERMAL FACTOR, Ct = 1.1

IMPORTANCE FACTOR, I = 1.0

4.1.5. WIND LOADS: ASCE 7-10

BASIC WIND SPEED = 115 MPH

BASED UPON RISK CATEGORY

IMPORTANCE FACTOR, I = 1.0

EXPOSURE = B

EXPOSURE FACTOR, Ce = 1.0

4.2. ROOF TRUSS LOADS

4.2.1. ROOF TOP CHORD DEAD LOAD = 10 PSF

4.2.2. ROOF BOTTOM CHORD DEAD LOAD = 10 PSF

5. STRUCTURAL - FOUNDATIONS

5.1. ALL FOUNDATIONS AND CONCRETE SLABS ON GRADE SHALL BE PLACED ON WELL COMPACTED UNDISTURBED VIRGIN SOIL OR APPROVED STRUCTURAL FILL AND IT SHALL BE 95% PROCTOR DENSITY OR BETTER. REFER TO SPECIFICATIONS.

5.2. THE BOTTOM OF ALL FOOTINGS SHALL BE PLACED AT THE REQUIRED FROST DEPTH (OR DEEPER), BASED UPON THE GOVERNING CODE AND/OR LOCAL REQUIREMENTS. WHETHER SPECIFICALLY SHOWN ON THE PLANS OR NOT. IF THERE IS A DISCREPANCY BETWEEN THE PLANS AND THE CODE REQUIREMENTS, THE CONTRACTOR SHALL CONSTRUCT THE FOUNDATIONS PER THE CODE. CONTRACTOR SHALL COMMUNICATE ALL DISCREPANCIES WITH THE ENGINEER.

5.3. NO FOUNDATIONS SHALL BE PLACED ON FROZEN SOIL.

5.4. PROTECT IN-PLACE FOUNDATIONS AND SLABS ON GRADE FROM FROST PENETRATIONS UNTIL PROJECT IS COMPLETE.

5.5. CONTRACTOR SHALL EMPLOY MEANS OF CONTROLLING SURFACE AND SUBSURFACE GROUND WATER SO ALL FOUNDATION WORK IS INSTALLED ON DRY SUBGRADE.

5.6. BACKFILL FOUNDATION WALLS EQUALLY ON BOTH SIDES. COMPACT AT EACH 12" LIFT.

6. STRUCTURAL - CONCRETE

6.1. CONCRETE WORK SHALL CONFORM TO THE LATEST STANDARDS OF THE ACI-318 CODE.

6.2. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF:

6.2.1. SLABS-ON-GRADE (EXTERIOR) = 4000 PSI

6.2.2. FOOTINGS = 3000 PSI

6.3. ALL EXPOSED EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED.

6.4. PLACE EXPANSION JOINTS AS SHOWN ON DRAWINGS.

6.5. CUT SLAB CONTROL JOINTS WITH A DEPTH OF 1/3 OF SLAB THICKNESS IN LOCATIONS SHOWN ON DRAWINGS. IF LOCATIONS ARE NOT INDICATED ON DRAWINGS LOCATE CONTROL JOINTS AT THE FOLLOWING SPACING:

CONTROL JOINT SPACING = MAXIMUM OF 36 TIMES THE CONCRETE THICKNESS. LENGTH OF SLAB SHALL NOT EXCEED 1 1/2 TIMES THE WIDTH.

7. STRUCTURAL - REINFORCEMENT

7.1. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185

8. STRUCTURAL - WOOD FRAMING

8.1. ALL LUMBER, UNLESS NOTED OTHERWISE, SHALL BE S4S #2 SPF OR BETTER.

8.2. DO NOT NOTCH, CUT OR BORE HOLES (LARGER THAN 3/4") IN WOOD MEMBERS.

8.3. PLYWOOD SHALL BE LAID WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.

8.4. STAGGER PLYWOOD (OSB) JOINTS.

8.5. NAILING SHALL BE PER THE NAILING SCHEDULE OF THE MOST CURRENT APPLICABLE CODE, UNLESS NOTED OTHERWISE.

8.6. PRESSURE TREATED LUMBER SHALL BE TREATED WITH CHROMATED COPPER ARSENATE TO A RETENTION LEVEL OF .60 LBS. PER CUBIC FOOT.

8.7. PROVIDE PRESSURE TREATED LUMBER AT THE FOLLOWING LOCATIONS:

8.7.1. WOOD EMBEDDED IN THE GROUND.

8.7.2. WOOD COMPONENTS IN CONTACT WITH CONCRETE OR MASONRY.

8.8. ALL METALS AND/OR FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE TREATED AS REQUIRED FOR THE TYPE OF WOOD TREATMENT USED (GALVANIZED AND/OR STAINLESS STEEL) TO PREVENT ACCELERATED CORROSION.

8.9. UTILIZE JOIST HANGER FASTENERS AS SUPPLIED AND/OR REQUIRED BY THE JOIST HANGER MANUFACTURER.

8.10. LAMINATED VENEER LUMBER (LVL) BEAMS SHALL COMFORM TO "TRUS JOIST CORPORATION" MICROLLAM 2.0E SPECIFICATIONS OR EQUAL OR BETTER.

8.11. WOOD HEADERS 2X8 AND SMALLER SHALL BE SPF#2 OR BETTER. WOOD HEADERS 2X10 AND LARGER SHALL BE DOUGLAS FIR-LARCH #1 GRADE.

8.12. ALL STUD WALLS ARE AT 16" ON CENTER WITH THE PROPER BLOCKING, PLATES, BRACING, ETC. UNLESS NOTED OTHERWISE. WALLS SHALL BE COVERED WITH THE APPROPRIATE FINISHES AS DIRECTED IN THE FINISH SCHEDULE OR BY THE OWNER.

9. ARCHITECTURAL

9.1. EXTERIOR DIMENSIONS ARE TO THE OUTSIDE FACE OF THE NEW FRAMING OR MASONRY OR CONCRETE. INTERIOR DIMENSIONS ARE TO THE FACE OF THE NEW FRAMING OR MASONRY OR CONCRETE.

9.2. ALL INTERIOR AND EXTERIOR SURFACES EXPOSED TO VIEW AND NOT RECEIVING A FINISHED MATERIAL, UNLESS OTHERWISE INDICATED, SHALL BE FINISHED (PAINTED OR STAINED).

PROJECT SPECIFIC NOTES

IT IS ASSUMED THAT THAT THE EXISTING PAINT ON THE EXTERIOR OF THE BUILDING CONTAINS LEAD. CONTRACTOR SHALL FOLLOW ALL GOVERNING AUTHORITY REQUIREMENTS FOR HANDLING THE LEAD PAINT, INCLUDING ANY WORKER PERSONAL PROTECTION, AIR TESTING AND WORKER TESTING.

DRAWING SYMBOLS KEY

SECTION CALLOUT

SECTION NUMBER

SHEET NUMBER TO REFERENCE FOR SECTION

DETAIL CALLOUT

DETAIL NUMBER

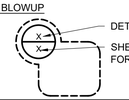
SHEET NUMBER TO REFERENCE FOR DETAIL

INTERIOR ELEVATION

ELEVATION NUMBER

SHEET NUMBER TO REFERENCE FOR INTERIOR ELEVATION

DETAIL BLOWUP



DETAIL NUMBER

SHEET NUMBER TO REFERENCE FOR DETAIL BLOWUP

ROOM TAG/NAME

ROOM NAME

ROOM NUMBER

REFER TO ROOM SCHEDULE

DOOR TAG

DOOR NUMBER

REFER TO DOOR SCHEDULE

WINDOW TAG

WINDOW TYPE NUMBER

REFER TO WINDOW SCHEDULE OR ENLARGE WINDOW ELEVATION

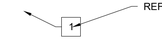
COLUMN GRID LINE

ELEVATION TAG

LOCATION REFERENCE

ELEVATION

KEY NOTE TAG



REFERENCE NUMBER

REFER TO KEY NOTE SCHEDULE

ABBREVIATIONS

#	POUND OR NUMBER	CONC.	CONCRETE	FE	FIRE EXTINGUISHER	LNDG.	LANDING	RAD.	RADIUS	THRU	THROUGH
&	AND	CONT.	CONTINUOUS	FEC	FIRE EXTINGUISHER & CABINET	MAX.	MAXIMUM	RD	ROOF DRAIN	TLT.	TOILET
@	AT	CTV	CONTRACTOR TO VERIFY	FIN.	FINISH	MECH.	MECHANICAL	REBAR.	REINFORCING BAR	T.O.	TOP OF
%	PERCENT	DA	DOOR ACTUATOR	FLR.	FLOOR	MEZZ.	MEZZANINE	REFRIG.	REFRIGERATOR	TOC	TOP OF CONCRETE
AB	ANCHOR BOLT	DBL.	DOUBLE	FND.	FOUNDATION	MIN.	MINIMUM	REINF.	REINFORCEMENT OR REINFORCE	TOS	TOP OF STEEL
ACT	ACOUSTICAL CEILING TILE	DEMO.	DEMOLISH OR DEMOLITION	FO	FACE OF	MIR.	MIRROR	REQD.	REQUIRED	TP	TOILET PAPER DISPENSER
AFF	ABOVE FINISHED FLOOR	DF	DRINKING FOUNTAIN	FTG.	FOOTING	MISC.	MISCELLANEOUS	RM.	ROOM	TYP.	TYPICAL
N.F.A.	NET FREE AREA	DIA.	DIAMETER	GA.	GAUGE	MO	MASONRY OPENING	ROW	RIGHT OF WAY	UNO	UNLESS NOTED OTHERWISE
ALUM.	ALUMINUM	DIM.	DIMENSION	GALV.	GALVANIZED	MTD.	MOUNTED	SAN.	SANITARY	UR.	URINAL
APPROX.	APPROXIMATE	DIMS.	DIMENSIONS	GB	GRAB BAR	MTL.	METAL	SCHED.	SCHEDULE	VERT.	VERTICAL
A/C	AIR CONDITIONING	DN.	DOWN	GC	GENERAL CONTRACTOR	NFA	NET FREE AREA	SF	SQUARE FOOT	VEST.	VESTIBULE
BIT.	BITUMINOUS	DR.	DOOR	GEN.	GENERAL	N.I.C.	NOT IN CONTRACT = (SUPPLIED BY OWNER INSTALLED BY OWNER)	SHTHG.	SHEATHING	W/	WITH
BO	BY OWNER	DT	DRAIN TILE	GND.	GROUND	NOM.	NOMINAL	SHWR.	SHOWER	W/O	WITHOUT
BOT.	BOTTOM	DWG.	DRAWING	GYPBD.	GYPSUM WALL BOARD	NTS	NOT TO SCALE	SIM.	SIMILAR	WC.	WATERCLOSET
BSMT.	BASEMENT	EA.	EACH	HB	HOSE BIB	OC	ON CENTER	SPEC.	SPECIFIED OR SPECIFICATION	WD.	WOOD
BY OWNER	SUPPLIED BY OWNER, INSTALLED BY CONTRACTOR	EJ	EXPANSION JOINT	HDR.	HEADER	OH.	OVERHEAD	SSTL.	STAINLESS STEEL	WH.	WATER HEATER
B/W	BETWEEN	EL.	ELEVATION	HPDL	HIGH PRESSURE DECORATIVE LAMINATE	PJP	PARTIAL JOINT PENETRATION	STD.	STANDARD	WPT.	WORKING POINT
CAB.	CABINET	ELEC.	ELECTRICAL	HM	HOLLOW METAL	P.LAM.	PLASTIC LAMINATE	STL.	STEEL	WT.	WEIGHT
CB	CATCH BASIN	ELEV.	ELEVATOR	HR.	HOUR	PLF	POUNDS PER LINEAL FOOT	STOR.	STORAGE	WWF	WELDED WIRE FABRIC
CJ	CONTROL JOINT	EQ.	EQUAL	INSUL.	INSULATED OR INSULATION	PLUMB.	PLUMBING	STRUCT.	STRUCTURE OR STRUCTURAL		
CJP	COMPLETE JOINT PENETRATION	EW	EACH WAY	INT.	INTERIOR	PLYWD.	PLYWOOD	SUSP.	SUSPENDED		
CL	CENTERLINE OR CLOSET	EXIST.	EXISTING	INV.	INVERT	PR	PAIR	TD	TRENCH DRAIN		
CLG.	CEILING	EXP.	EXPANSION	JAN.	JANITOR	PSF	POUNDS PER SQUARE FOOT	T/D	TELEPHONE/DATA		
CLR.	CLEAR	EXT.	EXTERIOR	KIP	KILOPOUND (1000 POUNDS)	PSI	POUNDS PER SQUARE INCH	T&G	TONGUE AND GROOVE		
CMU	CONCRETE MASONRY UNIT	FB	FACE BRICK	LAV.	LAVATORY	PT	PRESSURE TREATED	TELE.	TELEPHONE		
COL.	COLUMN	FD	FLOOR DRAIN	LL	LIVE LOAD	PVC	POLYVINYL CHLORIDE	THK.	THICK, THICKNESS		

FOR REVIEW FOR CONSTRUCTION

DATE						
REVISION						

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Dynamic Design Group, Inc.
Engineers—Architects—Project Managers
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Project Title
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Cooks, Michigan

Date	05-13-2022
Drawn By	JMC
Checked By	DSB

G0.2

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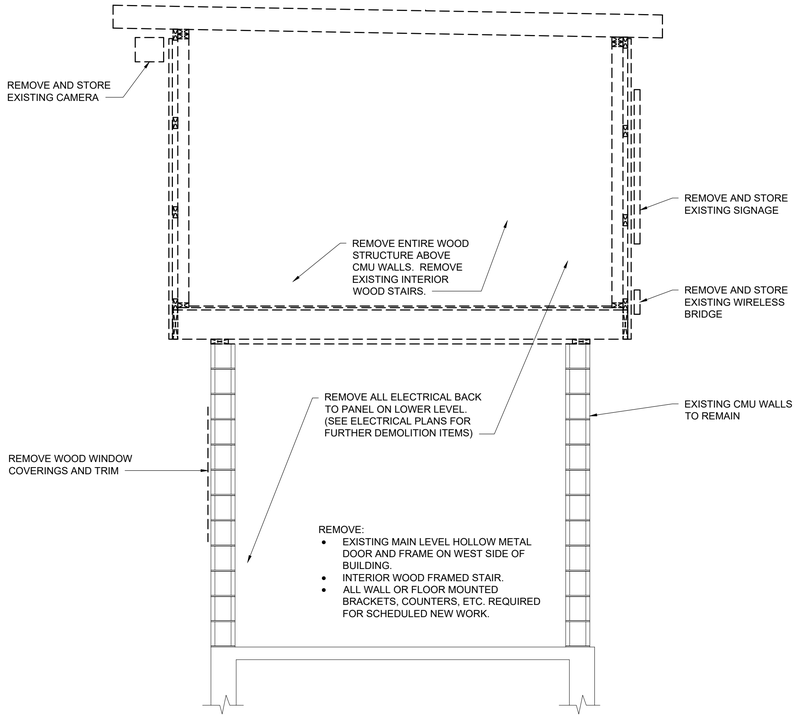

3 DEMOLITION SECTION
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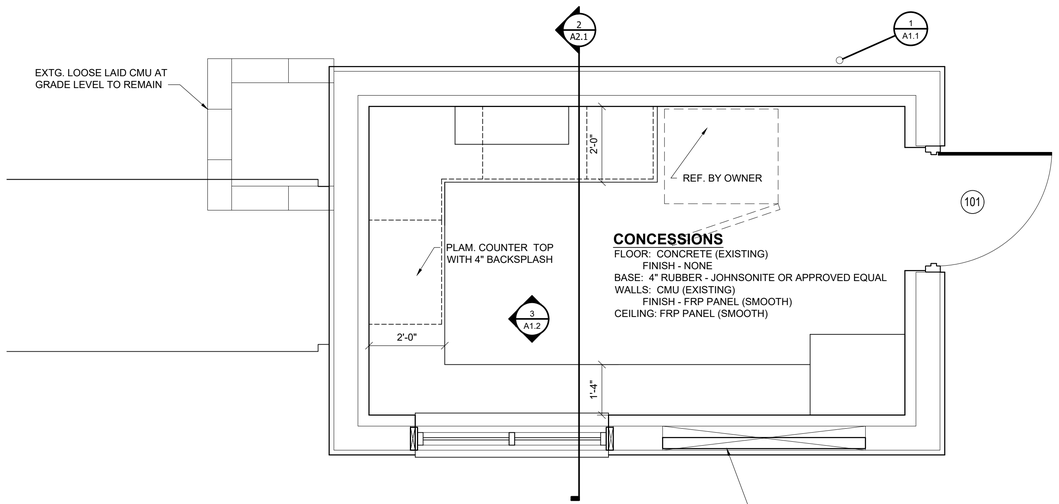
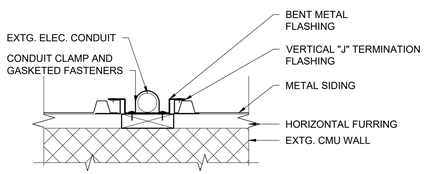


2 FLOOR PLAN (LOWER LEVEL)
Scale: 1/2"=1'-0"

PLAN NORTH



4 DETAIL
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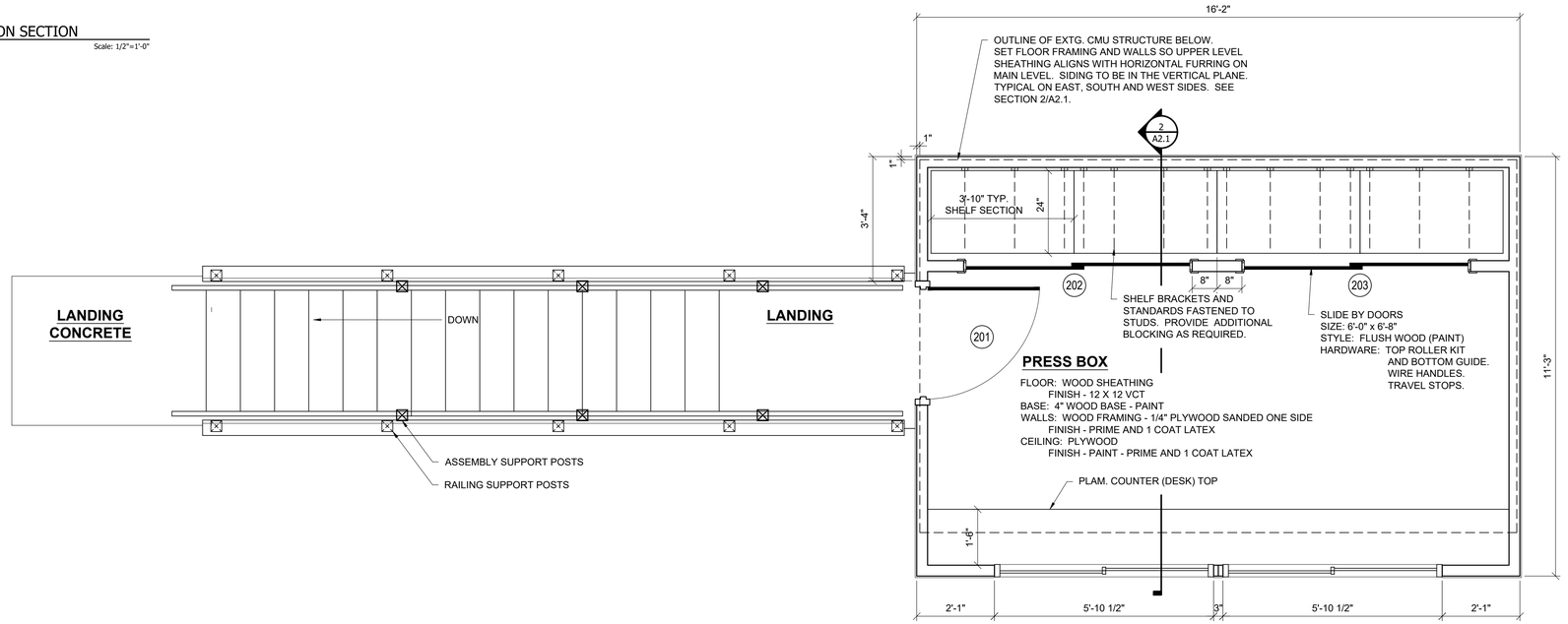

1 FLOOR PLAN (UPPER LEVEL)
Scale: 1/2"=1'-0"

PLAN NORTH

FOR REVIEW FOR CONSTRUCTION

DATE						
REVISION						

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Big Bay de Noc School
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A1.1

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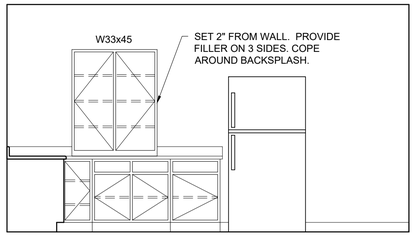
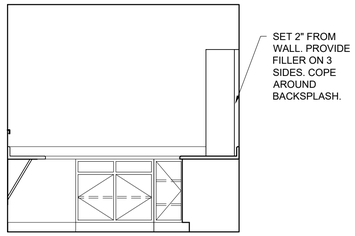


SOUTH



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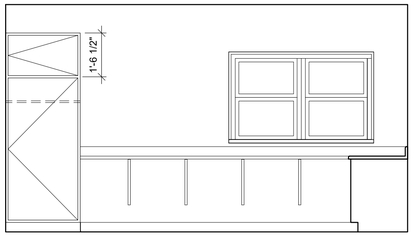


NORTH

3 INTERIOR ELEVATIONS
Scale: 3/8"=1'-0"

CASEWORK:
MFGR: KRAFTMAID CABINETRY, INC OR APPROVED EQUAL
TYPE: WOOD, MAPLE, SONORA DOOR STYLE.
INTERIOR AND SHELVES: 3/4" WOOD WITH LAMINATE. SHELVES ADJUSTABLE.
TOPS AND BOTTOMS: 1/2" THICK PLYWD.
BACKS: 3/16" THICK PLYWOOD.
FACE FRAMES: 3/4" SOLID WOOD GLUED AND MECHANICALLY FASTENED.
DOOR AND DRAWER FRONTS: 3/4" THICK FACE. DOVETAIL JOINERY.
COUNTERTOP AND BACKSPLASH: PLASTIC LAMINATE. COVED AT BACKSPLASH AND RADIUSED NOSING.
PULLS: 4" S.S. WIRE.
SLIDES: STEEL CONSTRUCTION FULL EXTENSION. SOFT CLOSE TYPE.
HINGES: EUROPEAN TYPE. SOFT CLOSE. 90 DEG. STOPS FOR BASE CABINETS.
FINISH: STAINED. COLOR SELECTED BY OWNER.
SHOP DRAWINGS REQUIRED.

DOOR SCHEDULE

DESCRIPTION				DOOR		FRAME		HARDWARE							HARDWARE		
DOOR NO.	LOCATION	SIZE WxH	LABEL/RATING	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	LOCKSET	HINGE	CLOSER	STOPS & HOLD OPENS	WEATHERSTRIP	TRESHOLD	MISC.	GENERAL NOTES (APPLIES TO ALL)	LOCAL NOTES (APPLIES TO SPECIFIC NOTES)	NOTES:
101	CONCESSIONS	3'-0"x7"-0"	-	FLUSH	HM	2" JAMB, 4" HEAD	HM	EOL	H1	--	--	W1	T1	K1	YES	--	--
201	PRESS BOX	3'-0"x7"-0"	-	1/2 LITE	HM	2" JAMB, 2" HEAD	HM	EOL	H1	--	--	W2	T1	--	YES	--	--
202	PRESS BOX	3'-0"x6'-8"	-			SEE PLAN											
203	PRESS BOX	3'-0"x6'-8"	-			SEE PLAN											

DOOR SCHEDULE ABBREVIATIONS

HM	HOLLOW METAL
AL	ALUMINUM
WD	WOOD

DOOR SCHEDULE NOTES

GENERAL NOTES (APPLIES TO ALL):

1. ALL DOORS TO HAVE BARRIER FREE ACCESSIBLE HARDWARE AS REQUIRED TO CONFORM WITH THE AMERICANS WITH DISABILITIES ACT & WITH ICC/ANSI A117.1 REQUIREMENTS.
2. PROVIDE DOOR STOPS, WEATHER SPECIFICALLY SPECIFIED OR NOT, ON ALL DOORS THAT WOULD BE SUBJECT TO SWINGING INTO AN ADJACENT WALL WHEN OPENED PAST 90 DEGREES. STOPS SHALL BE OF SIMILAR FINISH TO ADJACENT HARDWARE AND OF A TYPE TO NOT EFFECT THE FUNCTION OF THE HARDWARE UPON IMPACT WITH THE STOP.
3. ALL EXISTING ROUGH OPENINGS RECEIVING DOORS SHALL BE FIELD VERIFIED BY CONTRACTOR.
4. WOOD DOORS TO BE FACTORY FINISHED.
5. HARDWARE FINISH TO BE BRASS OR BRONZE FINISH 626.
6. ALL STEEL DOORS SHALL BE 18 GA. OR HEAVIER.
7. ALL STEEL FRAMES SHALL BE 16 GA. OR HEAVIER.
8. HOLLOW METAL DOOR HINGES
   - 8.1. FULL MORTISE - (2) HINGES ON DOORS UP TO 5'-0" AND AN ADDITIONAL HINGE FOR EA. ADDITIONAL 2'-6" OR FRACTION THEREOF.
   - 8.1.1. 1 ½ PAIR FULL MORTISE, FIVE KNUCKLE, BALL BEARING UNLESS OTHERWISE NOTED.
   - 8.1.2. 4 ½"X4 ½" DOORS UP TO 3'-0", 5"X5" DOORS 3'-0"-4'-0".
9. FERROUS BASE: IN LOCATIONS NOT SUBJECT TO MOISTURE. NON-FERROUS BASE: EXTERIOR
10. NON-REMOVABLE PINS FOR EXTERIOR AND PUBLIC INTERIOR EXPOSURE, NON-RISING FOR NON-SECURITY EXPOSURE, FLAT BUTTON WITH MATCHING PLUGS, SQUARE CORNERS.
11. WEATHERSTRIPING
    - 11.1. PROVIDE A COMPLETE SET OF WEATHERSTRIPING ON EA. EXTERIOR DOOR AND LOCATIONS INDICATED ON SCHEDULE.
12. ALL H.M. FRAMES ARE TO BE 5 3/4" U.N.O.
13. FRAME FASTENING SHALL BE PER THE APPLICATION, REVIEW PLANS FOR NEW AND EXISTING OPENINGS AND WALL CONSTRUCTION TYPE.
14. MATERIAL SHALL BE GALVANIZED.
15. MATERIAL SHALL BE FACTORY PRIMED AND ON-SITE PAINTED.

DOOR HARDWARE

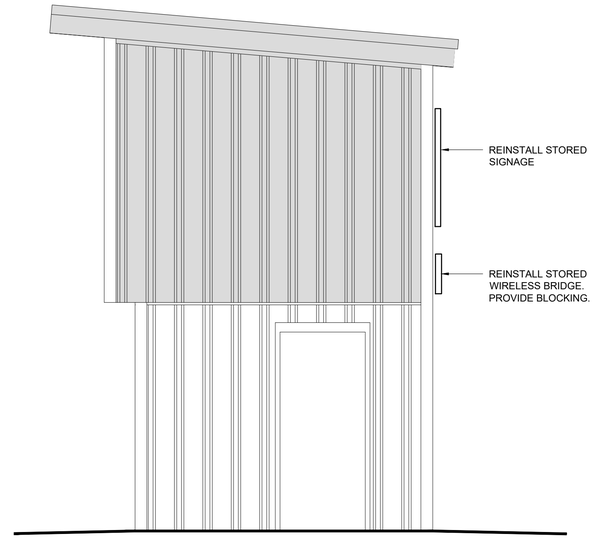
LOCKSETS		
Schlage, Sargent, Corbin Sargent		
EOL	ENTRANCE / OFFICE	ANSI F82

WHEATHERSTRIP		
Reese, or approved equal		
W1	755C HEAD/JAMB 967C SWEEP	C=CLR ALUM A=MILL FIN. ALUM D=DRK BRONZE
W2	755D HEAD/JAMB 967D SWEEP	C=CLR ALUM A=MILL FIN. ALUM D=DRK BRONZE

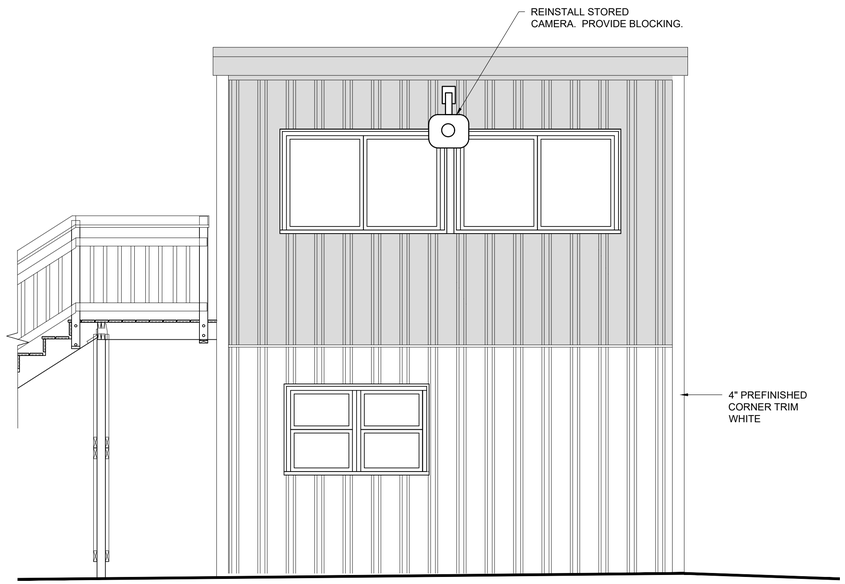
HINGES	
Stanley, Mckinney, Corbin Russwin	
H1	FBB191 AVERAGE FREQUENCY

KICK PLATES	
Ives, Hegar, or approved equal	
K1	ALUM., 10" TALL, 34" WIDE, .05"THK.

THRESHOLDS	
Reese or approved equal.	
T1	S205A - 1/2" HIGH, 5" WIDE
.	.



2 SIDE (WEST) ELEVATION
Scale: 3/8"=1'-0"



1 FRONT (NORTH) ELEVATION
Scale: 3/8"=1'-0"

FOR REVIEW FOR CONSTRUCTION

DATE	
REVISION	

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Engineers—Architects—Project Managers
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Project Title
Pressbox and Concessions Building Renovation
Big Bay de Noc School
Cooks, Michigan

Date	05-13-2022
Drawn By	JMC
Checked By	DSB

A1.2

Job No. 21-4514

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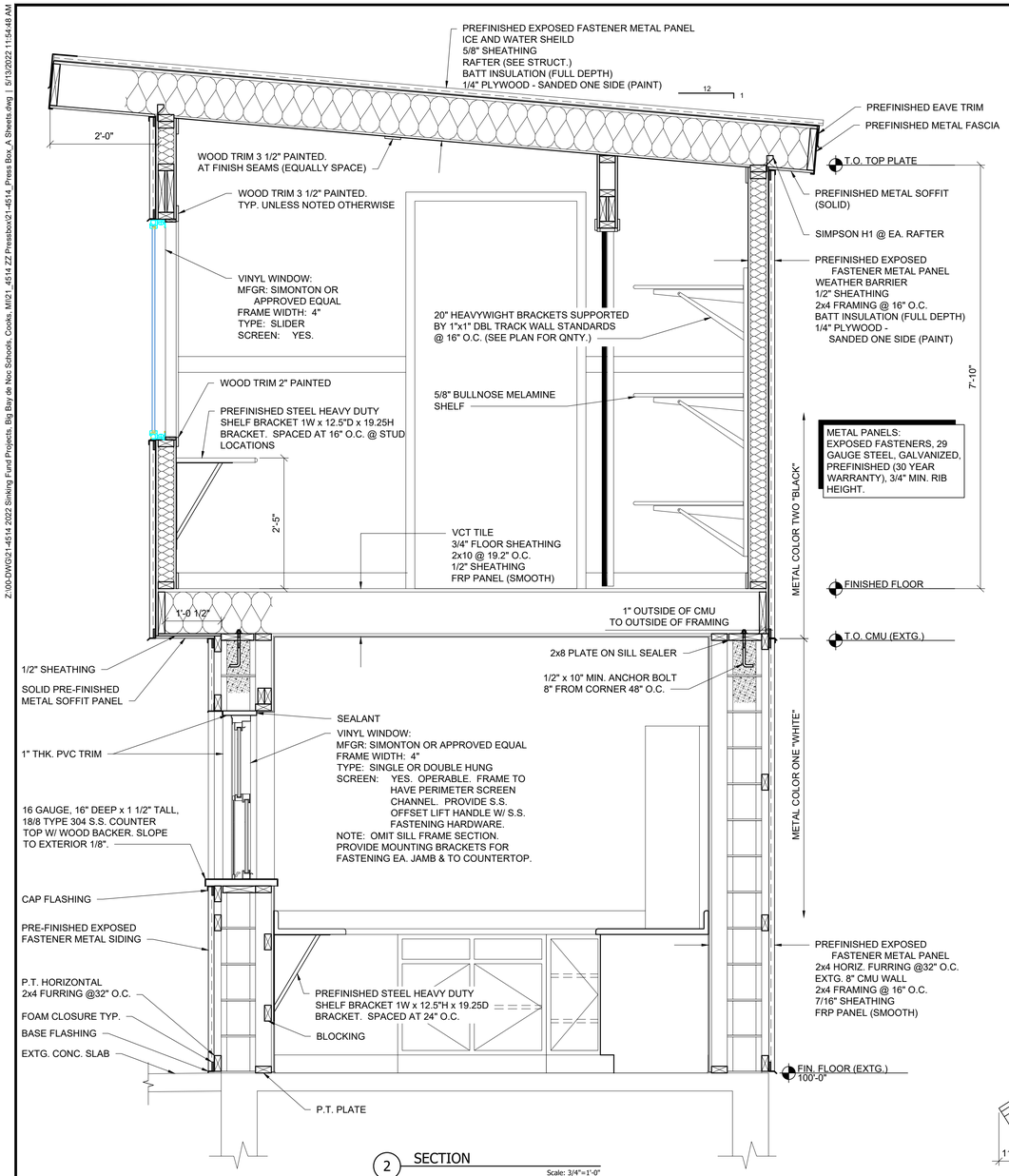

2 SECTION

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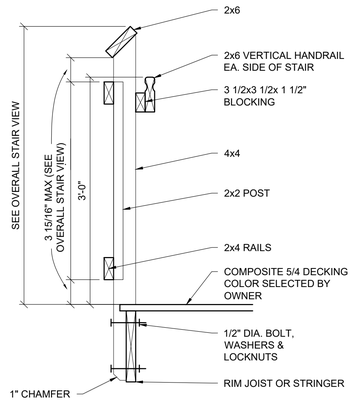
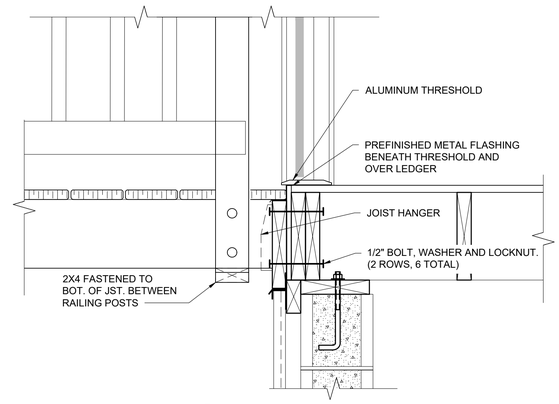


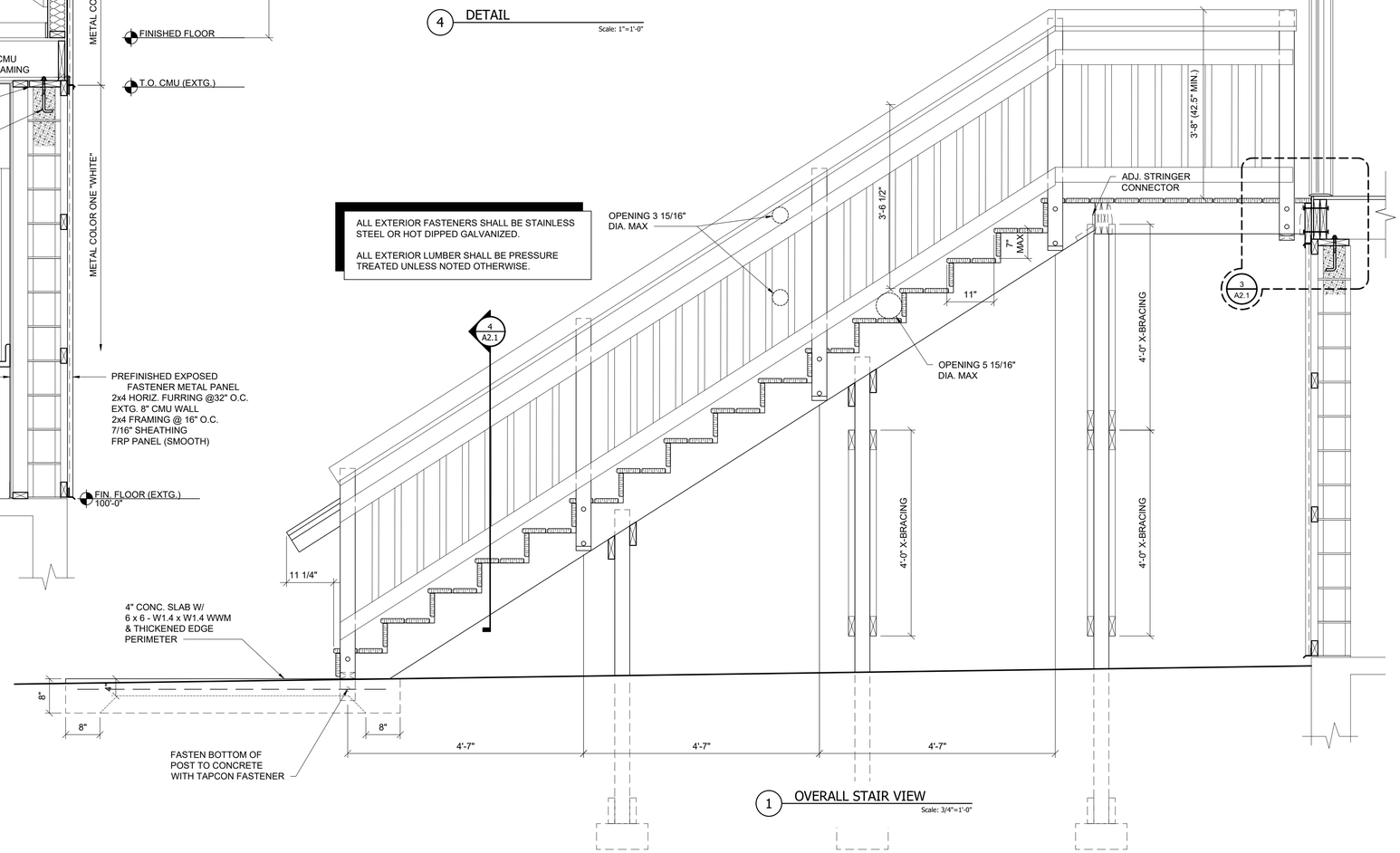
4 DETAIL

Scale: 1"=1'-0"



3 DETAIL

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



1 OVERALL STAIR VIEW

Scale: 3/4"=1'-0"

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Big Bay de Noc School
Cooks, Michigan

Date	05-13-2022
Drawn By	JMC
Checked By	DSB

A2.1

Job No. 21-4514

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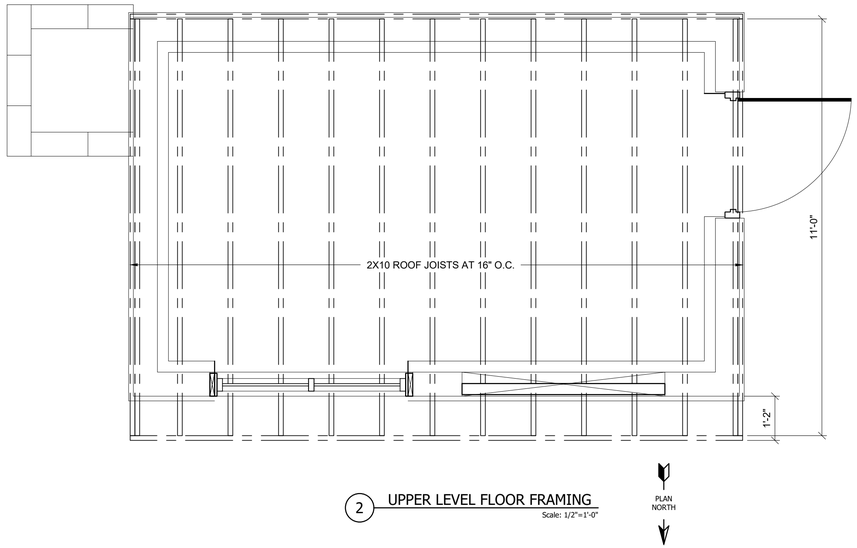
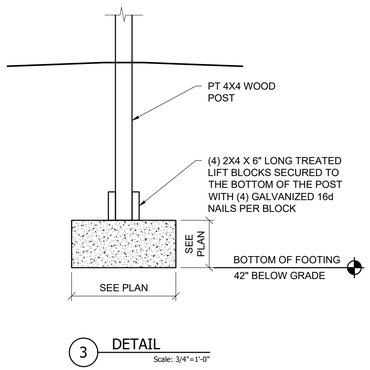


2 UPPER LEVEL FLOOR FRAMING
Scale: 1/2"=1'-0"



3 DETAIL
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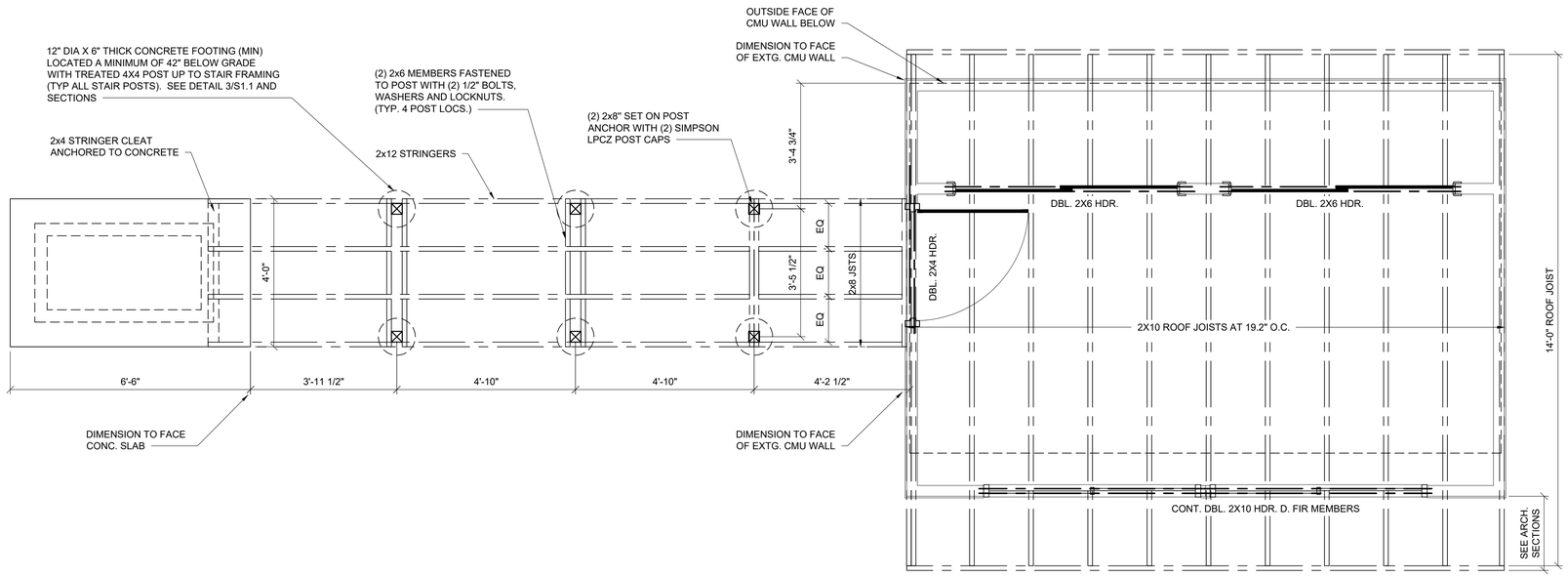

1 ROOF AND STAIR FRAMING
Scale: 1/2"=1'-0"

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Big Bay de Noc School
Cooks, Michigan

Date	05-13-2022
Drawn By	JMC
Checked By	DSB

S1.1

Job No. 21-4514

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ELECTRICAL SYMBOLS

(NOTE: NOT ALL SYMBOLS SHOWN MAY BE REQUIRED FOR THIS PROJECT.)

LIGHTING FIXTURES

- LED LINEAR FIXTURE AS SPECIFIED
- LIGHT SOCKET

EQUIPMENT

- MOTOR OUTLET AND CONNECTION. EQUIPMENT TYPE AS NOTED
- BRANCH CIRCUIT PANELBOARD SURFACE MOUNTED

WIRING DEVICES

- DUPLEX RECEPTACLE-20A, 125V, 1P, 3W 18" A.F.F. (NEMA 5-20R)-IN WALL
- DUPLEX RECEPTACLE-20A, 125V, 1P, 3W ABOVE COUNTER (NEMA 5-20R)-IN WALL MOUNT 6" ABOVE COUNTER, UNLESS SPECIFICALLY NOTED OTHERWISE.
- WALL MOUNTED JUNCTION BOX

LIGHTING CONTROL DEVICES

- XX — OC = WALL MOUNTED OCCUPANCY SENSOR; VC = WALL MOUNTED VACANCY SENSOR; 1P = WALL MOUNTED LOW VOLTAGE SWITCH FOR CLG MOUNTED SENSOR CONTROL MOUNTED AT 44" AFF.

(SEE THE LIGHTING CONTROLS LEGEND ON DRAWNG E2.1 FOR ADDITIONAL INFO)

NOTES

1.- REFER TO PROJECT MANUAL AND/OR PROJECT DRAWINGS FOR MOUNTING HEIGHTS

2.- LOWERCASE LETTERS AT SWITCHES AND LIGHT FIXTURES INDICATE ASSOCIATED UNITS FOR SWITCHING

3.- UPPERCASE LETTERS AT FIXTURES INDICATE THE FIXTURE TYPE

4.- NUMBER AT FIXTURES OR OUTLEST INDICATES PANEL CIRCUIT NUMBER

5.- "EX" INDICATES EXISTING DEVICE TO REMAIN.

6.- "EXR" INDICATES EXISTING RELOCATED DEVICE.

7.- "GF" INDICATES GROUND FAULT TYPE DEVICE.

8.- "WP" INDICATES WEATHER-PROOF TYPE DEVICE. PROVIDE LIFT UP COVER.

COMMUNICATION SYSTEMS

- (S) — WALL MOUNTED SPEAKER MOUNT 12" BELOW SOFFIT (AS SPECIFIED ON E2.1)
- WIFI — WALL MOUNTED WIRELESS BRIDGE
- WALL MOUNTED MOUNTED CAMERA MOUNT 12" BELOW SOFFIT
- (M) — FREESTANDING MICROPHONE (AS SPECIFIED ON E2.1)
- AMP — COUNTER MOUNTED MIXER AMPLIFIER (AS SPECIFIED ON E2.1)

BRANCH CIRCUIT WIRING NOTES

1. BRANCH CIRCUITS SHALL CONNECTED TO 20A/1P CB'S, U.N.O.

2. BRANCH CIRCUIT WIRING FOR 20 AMPERE, 120 VOLT CIRCUITS CONNECTED TO 240/120V SYSTEMS SHALL BE AS FOLLOWS, U.N.O.:

   A. ALL 120 VOLT ELECTRICAL LOADS:
   1) ONE CIRCUIT PER HOMERUN-
   0'-90' IN LENGTH: 2#12,1#12G,3/4"C
   91'-140' IN LENGTH: 2#10,1#10G,3/4"C
   141'-200' IN LENGTH: 2#8&1#8G,3/4"C

   2) TWO CIRCUITS PER HOMERUN-
   0'-90' IN LENGTH: 4#12,1#12G,3/4"C
   91'-140' IN LENGTH: 4#10,1#10G,3/4"C
   141'-200' IN LENGTH: 4#8&1#8G,1"C

   3) THREE CIRCUITS PER HOMERUN-
   0'-90' IN LENGTH: 6#12,1#12G,3/4"C
   91'-140' IN LENGTH: 6#10,1#10G,3/4"C
   141'-200' IN LENGTH: 6#8&1#8G,1"C

3. DISTANCES FOR BRANCH CIRCUIT WIRING, AS INDICATED IN NOTE 2, SHALL BE MEASURED FROM THE FINAL OCPD TO THE CENTER OF THE BRANCH CIRCUIT LOAD.

4. BRANCH CIRCUIT CONDUCTORS SIZED AS INDICATED IN NOTE 2 ABOVE AND/OR ON PLAN SHALL BE ROUTED TO EACH ELECTRIC DEVICE CONNECTED TO THE INDICATED BRANCH CIRCUIT. PROVIDE WIRENUTS AND PIGTAILS SIZED TO MATCH THE CORRESPONDING OCPD LISTED IN THE BRANCH CIRCUIT WIRING SCHEDULE FOR ELECTRICAL DEVICE TERMINATIONS WHERE THE ELECTRICAL DEVICE LUGS CANNOT ACCOMMODATE THE INCREASED CONDUCTOR SIZE INDICATED ABOVE, U.N.O.

5. PROVIDE AN EQUIPMENT GROUNDING SCREW WITHIN THE RECEPTACLE OUTLET BOX FOR RECEPTACLES WITHOUT A SIDE-MOUNTED GROUNDING SCREW FOR TERMINATION OF THE BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR.

GENERAL NOTES

1. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF HVAC, PLUMBING AND FIRE PROTECTION EQUIPMENT.

2. FEEDER AND BRANCH CIRCUIT WIRING SHALL BE SIZED FOR A MAXIMUM 5% VOLTAGE DROP.

3. THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN A SEPARATE RACEWAY SYSTEM.

4. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE, AND INDICATE THE GENERAL ARRANGEMENT OF EQUIPMENT, BUT ACCURACY IS NOT GUARANTEED. FIELD VERIFICATION OF LOCATIONS AND DIMENSIONS MAY BE REQUIRED.

5. THESE DRAWINGS WILL NOT SHOW ALL INSTALLATION DETAILS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE A COMPLETE AND SATISFACTORY INSTALLATION IN ACCORDANCE WITH NECA 1 AND MODERN PRACTICE METHODS.

6. EQUIPMENT DIMENSIONS SHOWN ON PLANS AND ELEVATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL USE THE SHOP DRAWINGS FOR PROPER LAYOUT, FOR FINAL INSTALLATION, WITHOUT ANY ADDITIONAL COST TO THE OWNER.

7. E.C. SHALL MAKE OWN COUNT OF ALL EQUIPMENT TO BE WIRED BASED ON PLANS AND SPECIFICATIONS IN THEIR ENTIRETY.

DIVISION 260000 - ELECTRICAL

1. GENERAL

A. REQUIREMENTS

1. PRODUCTS AND EXECUTION SHALL BE PROVIDED FOR A COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM THROUGHOUT THE EXTENT OF THE PROJECT, IN CONFORMANCE WITH APPLICABLE CODES, LAWS, ORDINANCES AND AGENCY STANDARDS OF GOVERNING BODIES HAVING JURISDICTION, AND IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND BUILDING STANDARDS.

2. PRODUCTS, INCLUDING EQUIPMENT, DEVICES, FIXTURES, AND MATERIALS SHALL BE NEW UNLESS NOTED OTHERWISE, UL LISTED, AND BEAR APPROPRIATE LABEL.

3. EXECUTION, INCLUDING PREPARATION, INSTALLATION, STARTING, AND TESTING SHALL BE PERFORMED BY SKILLED TRADES PERSONNEL, IN COMPLIANCE WITH THE ASSOCIATED MANUFACTURERS RECOMMENDATIONS, AND COORDINATED WITH THE OTHER CONSTRUCTION TRADES.

B. APPLICABLE CODES

1. 2017 NATIONAL ELECTRICAL CODE	NEC
2. 2015 MICHIGAN BUILDING CODE	MBC
3. 2015 INTERNATIONAL ENERGY CONSERVATION CODE	IECC

C. APPLICABLE LAWS AND AGENCY STANDARDS

1. AMERICAN NATIONAL STANDARDS INSTITUTE	ANSI
2. AMERICAN SOCIETY FOR TESTING AND MATERIALS	ASTM
3. AMERICANS WITH DISABILITIES ACT	ADA
4. ASSOCIATION OF EDISON ILLUMINATING COMPANIES	AEIC
5. CERTIFIED BALLAST MANUFACTURERS	CBM
6. ELECTRICAL TESTING LABORATORIES	ETL
7. ELECTRONIC/TELECOMMUNICATIONS INDUSTRIES ASSOCIATION	EIA/TIA
8. UNDERWRITERS' LABORATORIES	UL
9. NATIONAL FIRE PROTECTION ASSOCIATION	NFPA
10. ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA	IESNA
11. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS	IEEE
12. INSULATED CABLE ENGINEERS ASSOCIATION	ICEA
13. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	NEMA

D. SUBMITTALS

1. PRODUCT DATA SHALL BE PREPARED AND SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION FOR THE FOLLOWING PRODUCTS: CABINETS, RACEWAY, WIRE, AND LIGHT FIXTURES.

E. COORDINATION

1. ELECTRICAL ENGINEER: NOTIFY THE ENGINEER OF ANY CONFLICTING DESIGN INFORMATION OR ANY DESIGN INTENTIONS WHICH ARE NOT READILY INTERPRETED FROM THE CONTRACT DOCUMENTS PRIOR TO ANY PRODUCT SELECTION OR EXECUTION OF WORK. NOTIFY THE ENGINEER OF ANY PRODUCTS WHICH ARE DAMAGED, UNSUITABLE, INCOMPATIBLE, OR NON-COMPLIANT WITH ANY APPLICABLE CODES OR ORDINANCES OF ANY GOVERNING BODIES HAVING LAWFUL JURISDICTION.

2. ARCHITECT: COORDINATE CONSTRUCTION OF THE ELECTRICAL SYSTEM WITH THE ARCHITECT. FINAL LOCATIONS AND MOUNTING HEIGHTS OF ELECTRICAL EQUIPMENT, FIRE ALARM EQUIPMENT, RECEPTACLES, SWITCHES, COMMUNICATIONS DEVICES, FIRE ALARM DEVICES, LIGHTING FIXTURES, ETC. SHALL BE AS DIRECTED BY THE ARCHITECT.

3. CONSTRUCTION TRADES: COORDINATE WORK WITH OTHER CONSTRUCTION TRADES.

4. BUILDING OWNER: MEET ON SITE WITH THE BUILDING OWNER TO BECOME FAMILIAR WITH BUILDING STANDARDS. NORMAL BUILDING WORKING HOURS SHALL BE RECOGNIZED. AFTER-HOURS WORK OR TEMPORARY SERVICES SHALL BE WITH PRIOR WRITTEN APPROVAL FROM BUILDING OWNER. ENCLOSE CONSTRUCTION AREA FROM OTHER AREAS TO PREVENT TRANSMISSION OF DUST, DIRT AND NOISE INTO OTHER EXISTING TENANT AREAS. PRODUCT AND WASTE TRANSFER SHALL BE COORDINATED WITH BUILDING OWNER FOR SCHEDULING OF THE ELEVATORS, DELIVERIES, AND WASTE REMOVAL.

5. EXISTING BUILDING SYSTEMS: REVIEW BUILDING STANDARDS WITH THE BUILDING ENGINEER. PERFORM A SITE VISIT TO VERIFY THE EXISTING SITE CONDITIONS. COSTS ASSOCIATED WITH UNFORSEEN CONDITIONS AS RESULT OF NOT PERFORMING A SITE VISIT SHALL NOT BE AN ENTITLEMENT FOR AN INCREASE TO THE CONTRACT. CONSTRUCTION SHALL BE PERFORMED WITHOUT INTERRUPTION TO THE BUILDING POWER, COMMUNICATIONS, SECURITY, FIRE ALARM AND LIFE SAFETY SYSTEMS, OR INTERFERENCE TO COMMON AREAS, CORRIDORS, EXITS OR EXISTING TENANTS. WHERE ANY CONSTRUCTION WOULD INTERFERE WITH THE DAILY OPERATIONS OF THE BUILDING OR OTHER TENANTS, AFTER-HOURS WORK OR TEMPORARY SERVICES SHALL BE PROVIDED AT NO INCREASE TO THE CONTRACT.

F. WARRANTEE AND GUARANTEE

1. PROVIDE WARRANTEE AND MANUFACTURERS CERTIFICATE FOR EACH PRODUCT, MINIMUM OF ONE YEAR OR LONGER AS SPECIFIED, FROM THE DATE OF OCCUPANCY. REPAIR AND/OR REPLACE ANY EQUIPMENT, DEVICES, FIXTURES, MATERIALS, ETC. WITH DEFECT AS REQUIRED AT NO INCREASE TO THE CONTRACT.

2. PROVIDE GUARANTEE OF INSTALLATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF OCCUPANCY. REPAIR AND/OR REINSTALL ANY WORK WITH DEFECT AS REQUIRED AT NO INCREASE TO THE CONTRACT. PROVIDE GUARANTEE OF REWORK FOR A PERIOD OF ONE YEAR FROM THE COMPLETION OF REPAIR OR REINSTALLATION.

3. DAMAGE CAUSED TO FINISHES, SURFACES, CEILING TILES, EQUIPMENT, ETC. SHALL BE REPAIRED AND/OR REPLACED TO MATCH THE PRE-EXISTING CONDITION AT NO INCREASE TO THE CONTRACT.

G. PAY FEES AND OTHER CHARGES INCIDENTAL TO THE ELECTRICAL WORK AND OBTAIN AND PAY FOR REQUIRED LIABILITY AND CASUALTY INSURANCE, PERMITS, LICENSES, INSPECTIONS, TAXES, ETC.

H. CONSTRUCTION SHALL BE DONE DURING REGULAR WORKING HOURS AND DAYS, UNLESS OTHERWISE SPECIFIED. WORK REQUIRED TO BE PERFORMED DURING OVERTIME HOURS OR DAYS SHALL BE AS INDICATED.

2. PRODUCTS

A. CABINETS, ENCLOSURES AND ACCESS PANELS SHALL BE CODE GAGE STEEL WITH BAKED ENAMEL FINISH AND FLANGELESS HINGES AND FASTENERS.

B. CONDUITS SHALL BE HOT-DIPPED GALVANIZED OR ELECTRO-GALVANIZED STEEL, MINIMUM SIZE SHALL BE 3/4 INCH, EXCEPT SWITCH LEGS MAY BE 1/2 INCH AND FLEXIBLE CONNECTIONS TO RECESSED LIGHTING FIXTURES WHICH MAY BE 3/8 INCH. FLEXIBLE STEEL CONDUIT SHALL BE GALVANIZED STEEL, WITH UL LISTED LIQUID TIGHT JACKET AS REQUIRED, FOR FINAL CONNECTIONS TO MOTORS, RECESSED LIGHTING FIXTURES, AND LIFE SAFETY DEVICES. SUPPORTS, INCLUDING CHANNELS, ANGLES, RODS, AND FASTENERS SHALL BE HOT-DIPPED GALVANIZED STEEL. MANUFACTURER SHALL BE ALLIED, LTV/REPUBLIC, STEELDUCT, OR WHEATLAND.

C. CONDUIT FITTINGS SHALL BE STEEL, DIE CAST FITTINGS OF POT METAL ARE NOT ACCEPTABLE. ELECTRICAL METALLIC TUBING (EMT) FITTINGS SHALL BE COMPRESSION TYPE WITH INSULATED THROATS OR SET SCREW TYPE. INTERMEDIATE METAL CONDUIT (IMC) AND HEAVY WALL CONDUIT (HWG) FITTINGS SHALL BE OF THREADED JOINTS; SET SCREW AND AND COMPRESSION FITTINGS ARE NOT ACCEPTABLE. MANUFACTURER SHALL BE APPLETON, CROUSE HINDS/MIDWEST, OZ/GEDNEY, RACO, STEEL CITY, OR T&B.

D. OUTLET BOXES FOR ALL TOGGLE SWITCHES, RECEPTACLES, COMMUNICATIONS DEVICES, FIRE ALARM DEVICES, AND LIFE SAFETY DEVICES SHALL INCLUDE PLASTER RINGS, DEVICE PLATES, AND COVER PLATES WHERE REQUIRED. PROVIDE BOXES SUITABLE FOR PLENUM, WET, OR HAZARDOUS LOCATIONS AS REQUIRED. DEVICE COVER PLATES SHALL BE STAINLESS STEEL PAINTED TO MATCH FINISH. MULTI-GANG OUTLET BOXES SHALL INCLUDE SUITABLE ONE-PIECE DEVICE COVER PLATE. OUTLETS LOCATED ON OPPOSITE SIDES OF A PARTITION SHALL BE STAGGERED BY 12 INCHES, MINIMUM. MANUFACTURER SHALL BE APPLETON, RACO, OR STEEL CITY.

E. WIRE SHALL BE 600 VOLT INSULATED COPPER, MINIMUM SIZE SHALL BE NO.12 AWG, WIRE SIZES NO.8 AWG AND LARGER SHALL BE STRANDED. MANUFACTURER SHALL BE AMERICAN INSULATED WIRE CORP., CERRO, COLLYER, CAPITOL WIRE AND CABLE, OKONITE, SENETOR, SOUTH WIRE, OR TRIANGLE.

F. CABLE SUPPORTS SHALL BE APPROPRIATE FOR THE SIZE OF CONDUIT AND TYPE OF WIRE AND CABLES. CABLE LUBRICANT SHALL BE LESS THAN SIX PERCENT SOLID RESIDUE AFTER DRYING AND SHALL NOT CONTAIN ANY WAXES, GREASES, SILICONES, OR GLYCOL OILS.

G. PROVIDE A SEPARATE GREEN GROUND WIRE FOR EACH FEEDER AND BRANCH CIRCUIT.

H. RECEPTACLES SHALL BE DUPLEX NEMA 5-20R. BACK AND SIDE WIRED, GROUND-FAULT TYPE, UNLESS NOTED OTHERWISE. VERIFY FINISH WITH THE ARCHITECT. MANUFACTURER SHALL BE BRYANT, HUBBELL, LEVITON, OR PASS & SEYMOUR.

I. TOGGLE SWITCHES SHALL BE SINGLE POLE 20 AMP, 120-277 VOLT, BACK AND SIDE WIRED, SPECIFICATION GRADE, UNLESS NOTED OTHERWISE. SPECIAL SWITCHES, INCLUDING 3-WAY, PILOT LIGHT AND MOMENTARY CONTACT, SHALL BE AS REQUIRED OR AS INDICATED ON THE CONTRACT DOCUMENTS. VERIFY FINISH WITH THE ARCHITECT. MANUFACTURER SHALL BE BRYANT, HUBBELL, LEVITON, OR PASS & SEYMOUR.

J. LIGHTING FIXTURES SHALL INCLUDE ALL APPROPRIATE ACCESSORIES, MOUNTING FRAME AND TRIM FOR CEILING TYPE. LED FIXTURES SHALL INCLUDE DIMMABLE, 0-10 VOLT STANDARD ELECTRONIC DRIVERS. LIGHTING FIXTURES SHALL INCLUDE COORDINATED AIR HANDLING CAPABILITY, COORDINATED AIR HANDLING CAPABILITY, PLENUM RATING, DAMP LABEL, AND WET LABEL LISTINGS LIGHTING FIXTURES RECESSED WITHIN GRID TYPE CEILINGS SHALL INCLUDE SECURING SCLIPS AS REQUIRED BY THE LOCAL AUTHORITY. FIXTURE MANUFACTURER SHALL BE AS INDICATED.

K. BRANCH PANELBOARDS SHALL BE FULLY RATED WITH COPPER PHASE, NEUTRAL, AND GROUND BUS, AND 10,000 AIC MINIMUM FOR 240/120V PANEL, OR GREATER THAN THE AVAILABLE SHORT CIRCUIT CURRENT. MANUFACTURER SHALL BE EATON/CUTLER-HAMMER, SIEMENS, OR SQUARE D.

L. LOCAL DISCONNECT SWITCHES FOR ELECTRICALLY OPERATED EQUIPMENT SHALL BE HEAVY DUTY WITHIN ENCLOSURE SUITABLE FOR THE LOCATION. DISCONNECT SWITCHES 600 AMPS AND SMALLER SHALL BE QUICK-MAKE, QUICK-BREAK TYPE. MANUFACTURER SHALL BE EATON/ CUTLER-HAMMER, SIEMENS, OR SQUARE D.

3. EXECUTION

A. PENETRATIONS AND CHANNELS IN FLOORS AND WALLS SHALL BE VIA CUTTING AND CORING AS REQUIRED FOR THE SIZE OF PRODUCT, ONLY IN ACCORDANCE WITH THE ARCHITECT AND ENGINEER RECOMMENDATIONS, AND AS SCHEDULED WITH THE BUILDING OWNER. PATCH AND FILL SLEEVES, INSERTS, PENETRATIONS, AND CHANNELS WITH APPROPRIATE CODE APPROVED FIRE SAFING OR FILLING TO MATCH OR RESTORE THE ORIGINAL FIRE RATING OF THE CONSTRUCTION.

B. MAKE FINAL CONNECTIONS TO VIBRATING EQUIPMENT, FIXTURES, AND DEVICES WITH FLEXIBLE METAL CONDUIT OR LIQUID TIGHT FLEXIBLE METAL CONDUIT AS REQUIRED. EXTEND GROUND WIRE THROUGH FLEXIBLE CONNECTIONS.

C. INSTALL CONDUIT, FITTINGS, SUPPORTS, ETC. IN ACCORDANCE WITH CODES, STANDARDS, AND MANUFACTURERS RECOMMENDATIONS. THE VOLTAGES IDENTIFIED IN THE FOLLOWING SCHEDULES ARE LINE-TO-LINE OR LINE-TO-NEUTRAL. INTERIOR CONCEALED LOCATIONS ARE THOSE LOCATIONS WHICH ARE ABOVE CEILINGS, WITHIN WALLS, WITHIN FLOOR SLABS, AND WITHIN DEDICATED ELECTRICAL ROOMS. CONDUIT INSTALLATION SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

VOLTAGE LOCATION	0V THRU 50V	ABOVE 50V THRU 250V
INTERIOR CONCEALED	EMT	EMT
INTERIOR EXPOSED	IMC	IMC
EXTERIOR ABOVE GROUND LOCATIONS	RMC	RMC
EXTERIOR UNDERGROUND LOCATIONS	PVC	PVC

D. INSTALL PULL BOXES, JUNCTION BOXES, AND OUTLET BOXES IN ACCORDANCE WITH CODES, STANDARDS, AND MANUFACTURERS RECOMMENDATIONS. BOXES SHALL INCLUDE ACCESSIBLE COVERS, SHALL BE FABRICATED OF HEAVY GAGE GALVANIZED STEEL, AND SHALL BE SIZED WITH CODE TO ADEQUATELY FACILITATE PULLING AND CONNECTING THE QUANTITY OF WIRES, CABLES, AND FEEDERS CONTAINED. CONDUIT TERMINATIONS SHALL BE MADE WITH BUSHINGS AND LOCKNUTS. SUPPORTS FOR CONDUITS AND BOXES SHALL BE SUSPENDED DIRECTLY TO THE BUILDING STRUCTURAL COMPONENTS AND IN NO CASE SHALL THEY BE ATTACHED TO SUSPENDED CEILING GRID, DUCTWORK, OR PIPING COMPONENTS.

E. INSTALL FEEDERS AND BRANCH CIRCUIT WIRING IN ACCORDANCE WITH CODES, STANDARDS, AND MANUFACTURERS RECOMMENDATIONS. INSTALL POWER WITHIN CONTINUOUS METAL RACEWAYS. PROVIDE CABLE SUPPORTS AS REQUIRED. TERMINATE CABLES PER CODE AND MANUFACTURER RECOMMENDATIONS. POWER WIRING INSULATION SHALL BE AS FOLLOWS:

WIRE LOCATION	250 KCMIL AND SMALLER
INTERIOR LOCATIONS	THHN/THWN
EXTERIOR LOCATIONS	XHHW

F. INSTALL GROUNDING SYSTEMS IN ACCORDANCE WITH CODES, STANDARDS, AND MANUFACTURERS RECOMMENDATIONS. COMMUNICATIONS SYSTEM SHALL INCLUDE GROUND LUG AND AWG NO. 6 WHICH SHALL CONNECT TO THE ELECTRICAL SERVICE EQUIPMENT GROUND BUS.

G. INSTALL LIGHTING AND ASSOCIATED CONTROLS, INCLUDING FIXTURES, SWITCHES, DIMMERS, ETC IN ACCORDANCE WITH CODES, STANDARDS, AND MANUFACTURERS RECOMMENDATIONS.

H. INSTALL SINGLE AND MULTIPLE DEVICE COVER PLATES AS REQUIRED. EXTEND EXISTING DEVICES TO FINISHED SURFACE AS REQUIRED.

I. CLEAN ELECTRICAL APPARATUS PRIOR TO COMPLETION OF CONSTRUCTION. KEEP WORK AREAS CLEAN AT ALL TIMES.

J. ALTERATIONS AND DEMOLITION OF EXISTING SYSTEMS SHALL BE AS FOLLOWS:

1. PROVIDE ALL ALTERATIONS AND DEMOLITION OF THE EXISTING ELECTRICAL INSTALLATION AS REQUIRED, INCLUDING ANY INCIDENTAL MATERIALS TO EXECUTE ALL REMOVAL, REROUTING, RELOCATION, AND ANY OTHER MODIFICATIONS FOR PROPER ACCOMMODATION OF ALL NEW CONSTRUCTION AS INDICATED ON THE CONTRACT DOCUMENTS. ALL ALTERATIONS AND DEMOLITION SHALL BE AS INDICATED ON THE CONTRACT DOCUMENTS OR AS REQUIRED, INCLUDING ANY MODIFICATIONS NOT SPECIFICALLY IDENTIFIED ON ANY CONTRACT DOCUMENTS BUT REQUIRED TO COMPLETE ALL NEW CONSTRUCTION.

2. PROVIDE ALL MODIFICATIONS TO EXISTING EQUIPMENT AS REQUIRED OR AS INDICATED ON THE CONTRACT DOCUMENTS IN STRICT ACCORDANCE WITH THE EXISTING PRODUCT MANUFACTURERS RECOMMENDATIONS.

3. EXISTING RACEWAY, WIRE AND CABLE EXTENDING THROUGH THE CONSTRUCTION AREA BUT SERVING AREAS OUTSIDE THE CONTRACT SHALL BE REROUTED AND RECONNECTED AS REQUIRED. ALL MODIFICATIONS SHALL BE WITHOUT ANY INTERRUPTION TO THE BUILDING POWER, COMMUNICATIONS, SECURITY, FIRE ALARM AND LIFE SAFETY SYSTEMS, OR INTERFERENCE TO OTHER AREAS OR TENANTS. WHERE ANY MODIFICATIONS WOULD INTERFERE WITH THE DAILY OPERATIONS OF THE BUILDING OR OTHER TENANTS, AFTER-HOURS WORK OR TEMPORARY SERVICES SHALL BE PROVIDED WITH PRIOR WRITTEN APPROVAL FROM THE BUILDING.

4. EXISTING CONDUIT, WIRE, CABLE, SUPPORTS, HANGERS, AND OTHER ELECTRICAL INSTALLATION WHICH IS REMOVED, SHALL BE COMPLETELY REMOVED, BACK TO THE FIRST DEVICE OR THAT EQUIPMENT WHICH IS UNAFFECTED BY THE MODIFICATIONS. CONDUIT WHICH IS BURIED IN CONCRETE OR OTHERWISE INACCESSIBLE MAY BE ABANDONED AND CAPPED AT EACH END. ALL WIRE AND CABLE SHALL BE REMOVED FROM ANY ABANDONED CONDUIT.

5. EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, INCLUDING LIGHTING FIXTURES, SWITCHES, RECEPTACLES, SPEAKERS, CONDUIT, OUTLET BOXES, FITTINGS, WIRE, CABLE, AND OTHER EQUIPMENT AND DEVICES WHICH ARE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STORED OR DISCARDED AS DIRECTED.

6. REUSE EXISTING ELECTRICAL PRODUCTS AS INDICATED ON THE CONTRACT DOCUMENTS ONLY AS IS FOUND PRACTICAL. EXAMINE THE CONDITION OF ALL SUCH PRODUCTS, DETERMINE SUITABILITY FOR RE-USE, AND PERIODICALLY NOTIFY THE ARCHITECT/ENGINEER OF FINDINGS FOR FINAL ACCEPTANCE OF RE-USE. WIRE AND CABLE FOR NEW CONSTRUCTION OR EXTENSION OF AN EXISTING INSTALLATION SHALL BE NEW, IN NO CASE SHALL EXISTING WIRE AND CABLE BE REUSED.

7. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR FULL EXTENT AND SCOPE OF PARTITION AND CEILING MODIFICATIONS.

A. EXISTING CEILINGS TO REMAIN SHALL NOT BE ALTERED EXCEPT WHERE REMOVAL AND REPLACEMENT OF SURFACES IS REQUIRED TO MODIFY SYSTEMS WITHIN CEILING SPACE.

B. EXISTING CEILINGS TO BE REMOVED SHALL INCLUDE DEMOLITION OF ALL FIXTURES, EQUIPMENT, SPEAKERS, RACEWAY, AND WIRE, INCLUDING ANY OBSOLETE OR PREVIOUSLY ABANDONED PRODUCTS. REMAINING AREAS SHALL ONLY BE ALTERED AS REQUIRED AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

C. EXISTING PARTITIONS TO REMAIN SHALL NOT BE ALTERED EXCEPT WHERE REMOVAL AND REPLACEMENT OF SURFACES IS REQUIRED TO MODIFY SYSTEMS WITHIN PARTITIONS.

D. EXISTING PARTITIONS TO BE REMOVED SHALL INCLUDE DEMOLITION OF ALL DEVICES, RACEWAY AND WIRE INCLUDING ANY OBSOLETE OR PREVIOUSLY ABANDONED PRODUCTS. RACEWAY AND WIRING SYSTEMS SERVING OTHER REMAINING AREAS SHALL ONLY BE ALTERED AS REQUIRED AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

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Engineers—Architects—Project Managers
ddM design document manage

Project Title
Pressbox and Concessions Building Renovation
Big Bay de Noc School
Cooks, Michigan

Date	05-13-2022
Drawn By	SJV
Checked By	DSB

E0.1

Job No. 21-4512

STATE OF MICHIGAN
STEVEN VACCARO
ENGINEER
No. 6201063549
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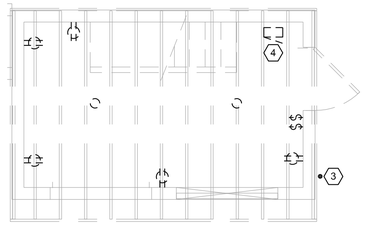
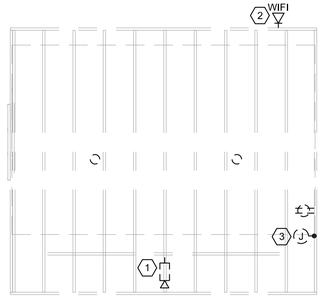
GENERAL ELECTRICAL DEMOLITION NOTES:

1. ELECTRICAL CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AT THE PROJECT SITE BEFORE SUBMITTING HIS COST PROPOSAL.
2. IT IS MANDATORY THAT THE EXISTING BUILDING REMAIN IN CONTINUOUS AND NON-INTERRUPTED OPERATION DURING REMODELING/ALTERING OF THE EXISTING BUILDING. THE SPECIFIC AREA(S) BEING REMODELED/ALTERED AT ANY SCHEDULED TIME ARE OBVIOUSLY EXCLUSIVE OF THIS STATEMENT. SERVICES TO EXISTING BUILDING SHALL BE KEPT IN CONTINUOUS OPERATION INCLUDING POWER, LIGHTING, TELEPHONE, FIRE ALARM, ETC,. ANY ABSOLUTELY NECESSARY INTERRUPTION OF THESE SERVICES TO ACCOMPLISH PROJECT CONSTRUCTION SHALL BE ARRANGED WITH THE OWNER THROUGH THE GENERAL CONTRACTOR A MINIMUM OF TWO (2) WEEKS IN ADVANCE. TEMPORARY SERVICES SHALL BE FURNISHED AND INSTALLED WHERE NECESSARY TO ACCOMPLISH THIS PURPOSE. TEMPORARIES SHALL BE REMOVED ONLY AFTER NEW PERMANENT SERVICES ARE INSTALLED AND FULLY OPERATIONAL.
3. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN DEMOLITION, REMOVAL, CAPPING, STORING, ABANDONING, DISCONNECTING, RELOCATING AND RECONNECTING OF EXISTING ELECTRICAL EQUIPMENT AND MATERIAL. ALL CUTTING, PATCHING, REPAIRING, REPLACING AND REFINISHING OF EXISTING CONSTRUCTION AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW WORK OR DEMOLITION AND/OR REMOVAL OF EXISTING ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ALL PATCHING, REPAIRING, REPLACING AND REFINISHING SHALL MATCH THE EXISTING CONSTRUCTION AS NEARLY AS POSSIBLE.
4. EXCEPT WHERE OTHERWISE NOTED ON DRAWING TO BE RETAINED, RELOCATED OR HEREINAFTER NOTED, (SEE NOTE 5) ALL EXISTING ELECTRICAL EQUIPMENT AND MATERIAL IN AREAS TO BE REMODELED/ALTERED SHALL BE REMOVED AS FOLLOWS WHERE THEY SERVE NO FURTHER PURPOSE AND WHERE THEY INTERFERE WITH PROPOSED CONSTRUCTION AND/OR INTERFERE WITH PROPOSED USAGE OF SPACE BY OWNER.
   A. REMOVE ANY CONDUITS PROTRUDING ABOVE FINISHED FLOOR AND CAP AND FINISH OVER WITH FLOOR MATERIAL TO MATCH EXISTING.
   B. REMOVE ALL LIGHTING FIXTURES, RECEPTACLES, SWITCHES, ETC. AND ASSOCIATED WIRING.
   C. REMOVE ALL SURFACE MOUNTED CONDUIT, BOXES AND THEIR ASSOCIATED WIRING. REMOVE ALL CONCEALED RACEWAYS, BOXES AND WIRING FROM PARTITIONS BEING DEMOLISHED.
   D. REMOVE ALL EXISTING WIRING/CABLING FROM ALL CONCEALED RACEWAYS IN PARTITIONS THAT ARE TO REMAIN.
   E. PROVIDE BLANK COVER PLATES FOR ALL EXISTING FLUSH MOUNTED BOXES IN EXISTING WALLS THAT ARE TO REMAIN. FINISH OF PLATES SHALL MATCH THOSE SPECIFIED FOR NEW SWITCHES AND RECEPTACLES.
5. PLEASE NOTE THAT EVEN IN REMODELED/ALTERED AREAS, ANY FEEDERS, CONDUITS, BRANCH CIRCUITS, SIGNAL AND TELEPHONE CIRCUITS, ETC. PASSING THROUGH THE REMODELED AREAS TO SERVE (OR BE SERVED FROM) EXISTING ADJACENT, REMOTE OR SURROUNDING AREAS (THAT ARE TO REMAIN) SHALL BE RETAINED AND KEPT OPERATIONAL AND SHALL BE REROUTED IN ALL CASES WHERE THEY INTERFERE WITH ANY NEW WORK OR NEW USAGE TO BE ACCOMPLISHED IN THE REMODELED AREAS.
6. CERTAIN EXISTING ELECTRICAL EQUIPMENT AND MATERIAL NOT INDICATED TO BE RETAINED AND/OR RELOCATED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STORED WHERE DIRECTED BY THE OWNER. EXISTING ELECTRICAL EQUIPMENT BEING REMOVED THAT THE OWNER DOES NOT WISH TO RETAIN SHALL BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES.
7. ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS TO FAMILIARIZE HIMSELF WITH EXTENT OF REMODELING/ALTERATION WORK AND MORE SPECIFICALLY TO NOTE WHERE NEW PARTITIONING IS BEING INSTALLED, WHERE EXISTING PARTITIONING IS BEING REMOVED AND WHERE CEILINGS ARE BEING REMOVED AND/OR REPLACED, ETC..



1 CONCESSIONS ELECTRICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

NORTH



2 PRESSBOX ELECTRICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

NORTH

GENERAL SHEET NOTES :

1. SEE DRAWING E0.1 FOR THE GENERAL ELECTRICAL NOTES, BRANCH CIRCUIT REQUIREMENTS, AND SPECIFICATIONS.
2. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES, WHETHER INDICATED OR NOT, INCLUDING THE ASSOCIATED WIRING AND AND RACEWAY BACK TO THE EXISTING LOAD CENTER SERVING THE BUILDING.

SHEET KEYNOTES:

1. DISCONNECT, REMOVE, AND SALVAGE THE EXTERIOR CAMERA AND ASSOCIATED CABLING BACK TO THE PRESSBOX COMPUTER. THE EXISTING CAMERA SHALL BE RE-INSTALLED IN APPROXIMATELY THE SAME LOCATION AFTER THE NEW PRESSBOX IS BUILT. THE EXISTING CABLE SHALL BE RE-RUN FROM THE CAMERA TO THE NEW PRESSBOX COMPUTER LOCATION, UNDERNEATH THE PRESSBOX COUNTER.
2. DISCONNECT, REMOVE, AND SALVAGE THE EXTERIOR WIRELESS BRIDGE AND ASSOCIATED CABLING BACK TO THE SOURCE OF POWER. THE EXISTING WIRELESS BRIDGE SHALL BE RE-INSTALLED IN APPROXIAMTELY THE SAME LOCATION AFTER THE NEW PRESSBOX IS BUILT.
3. DISCONNECT AND REMOVE THE VIDEO PORT IN THE EXISTING PRESSBOX AND ASSOCIATED CABLING AND ABOVE GROUND CONDUIT TO THE EXISTING CONCRETE SLAB. CUT THE EXISTING CONDUIT AT THE SLAB AND INFILL WITH CONCRETE SO IT IS FLUSH WITH THE REST OF THE SLAB. THE EXISTING UNDERGROUND HORIZONTAL CONDUIT SHALL BE ABANDONED IN PLACE.
4. DISCONNECT AND REMOVE THE EXISTING 60A,120/240V, 1Ø LOAD CENTER. SEE THE POWER PLAN ON DRAWING E2.1 FOR FURTHER WORK.

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Engineers—Architects—Project Managers
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Project Title
Pressbox and Concessions Building Renovation
Big Bay de Noc School
Cooks, Michigan

Date	05-13-2022
Drawn By	SJV
Checked By	DSB

E1.1

Job No. 21-4512

STATE OF MICHIGAN
STEVEN VACCARO
ENGINEER
No. 6201063549
LICENSED PROFESSIONAL ENGINEER

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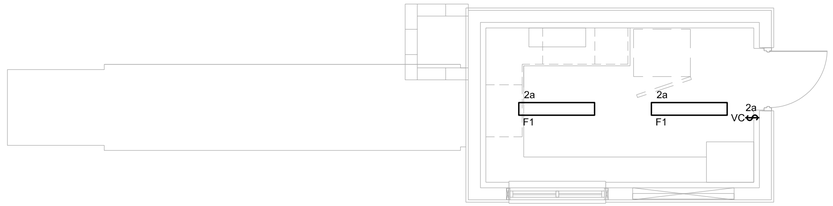
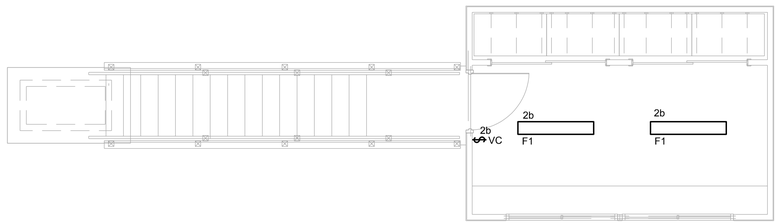


1 CONCESSIONS ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"

NORTH

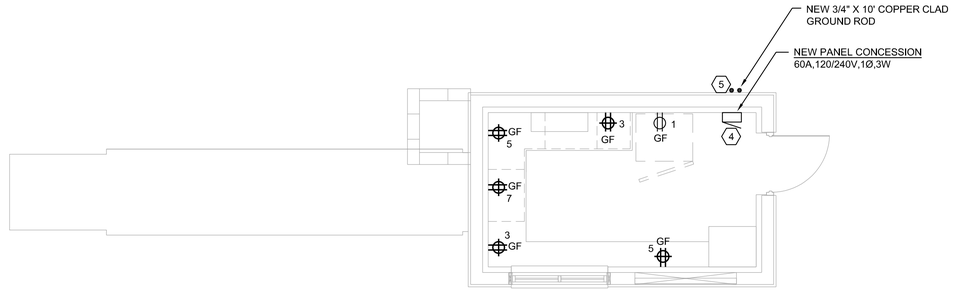


2 PRESSBOX ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"

NORTH

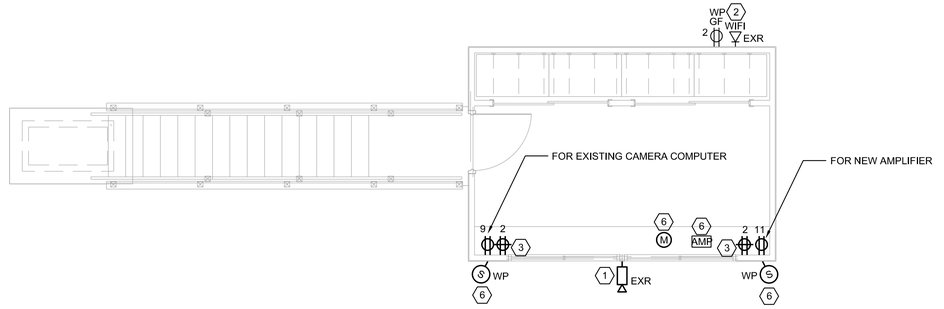
GENERAL SHEET NOTES :

1. SEE DRAWING E0.1 FOR THE GENERAL ELECTRICAL NOTES, BRANCH CIRCUIT REQUIREMENTS, AND SPECIFICATIONS.
2. SEE THE LIGHTING FIXTURE SCHEDULE AND CONTROLS LEGEND ON DRAWING E3.1.
3. ALL CIRCUITS INDICATED ON THIS PLAN SHALL BE CONNECTED TO NEW PANEL CONCESSION.
4. SEE THE PANEL SCHEDULE AND RISER DIAGRAM ON DRAWING E3.1.



3 CONCESSIONS ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"

NORTH



4 PRESSBOX ELECTRICAL POWER PLAN
SCALE: 1/4" = 1'-0"

NORTH

SHEET KEYNOTES:

1. RE-INSTALL THE EXISTING CAMERA IN APPROXIMATELY THE SAME LOCATION OF THE NEW PRESSBOX. RE-RUN THE EXISTING CABLE FROM THE CAMERA TO THE NEW PRESSBOX COMPUTER LOCATION, UNDERNEATH THE CASEWORK. THE CABLING SHALL BE RUN THROUGH THE NEW SOFFIT AND SUPPORTED TO THE STRUCTURE EVERY 12" WHEN RUN ON THE EXTERIOR OF THE BUILDING. PROVIDE CALKING AROUND THE NEW CORED SOFFIT LOCATION TO REDUCE THE POSSIBILITY OF BUG INFILTRATION.
2. RE-INSTALL THE EXISTING WIRELESS BRIDGE IN APPROXIMATELY THE SAME LOCATION OF THE NEW PRESSBOX. PROVIDE A NEW WEATHER-PROOF GROUND FAULT RECEPTACLE NEXT TO THE EXISTING DEVICE.
3. HORIZONTALLY MOUNT THE NEW ABOVE COUNTER DUPLEX RECEPTACLES INDICATED BETWEEN THE NEW COUNTER AND WINDOW TRIM. COORDINATE WITH ARCHITECTURAL DRAWINGS, PRIOR TO ROUGH-IN.
4. PROVIDE A NEW SURFACE MOUNTED PANEL MOUNTED AT 72" MAXIMUM TO THE TOP OF THE PANEL. INTERCEPT THE EXISTING FEEDER AT THE DEMOLISHED PANEL LOCATION AND EXTEND TO THE NEW (LOWER HEIGHT) LOCATION AS REQUIRED.
5. THE CONTRACTOR SHALL REMOVE THE EXISTING VERTICAL SUPPORTS ON THE EXTERIOR OF THE BUILDING AND RE-SUPPORT THE EXISTING CONDUIT AS REQUIRED FOR THE NEW 7/16" SHEATHING METAL PANEL SLIDING BEHIND THE EXISTING CONDUIT. PROVIDE A NEW PULL BOX WHERE THE EXISTING/DEMOLISHED LOAD CENTER WAS UP HIGH, INTERCEPT THE EXISTING FEEDER AND EXTEND TO THE NEW PANEL LOCATION DIRECTLY BELOW NEW PULL BOX. COORDINATE WITH THE ARCHITECTURAL DRAWINGS, PRIOR TO WORK.
6. PROVIDE A COMPLETE PRESSBOX OUTDOOR SOUND SYSTEM WITH TWO (2) WEATHERPROOF IP66 RATED, 200W SPEAKERS WITH WALL MOUNTED ADJUSTABLE BRACKETS, 5-CHANNEL 350W MIXER AMPLIFIER WITH BLUETOOTH CAPABILITY AND FORCED AIR-COOLING FAN, PUSH-TO-TALK GOOSENECK COUNTERTOP MICROPHONE, FEMALE XLR TO BARE WIRE MICROPHONE CABLE, AND 16/2 SPEAKER WIRE AS MANUFACTURED BY PURE RESONANCE AUDIO (2)#S10 SPEAKERS, #RMA350BT MIXER AMPLIFIER, AND #PTT1 MICROPHONE. EQUIVALENT SOUND SYSTEMS BY OTHERS IS ACCEPTABLE UPON APPROVAL. CONTRACTOR TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. THE SPEAKERS SHALL BE MOUNTED TO THE UNDERSIDE OF THE SOFFIT AND BE DIRECTED AT 30° IN EITHER E-W DIRECTION. THE AMPLIFIER AND MICROPHONE SHALL BE MOUNTED ON TOP OF THE PRESSBOX COUNTER TOP. THE CABLING SHALL BE RUN THROUGH THE NEW SOFFIT AND SUPPORTED TO THE STRUCTURE EVERY 12" WHEN RUN ON THE EXTERIOR OF THE BUILDING. PROVIDE CALKING AROUND THE NEW CORED SOFFIT LOCATION TO REDUCE THE POSSIBILITY OF BUG INFILTRATION. COORDINATE ALL REQUIREMENTS WITH THE MANUFACTURER AND ARCHITECT, PRIOR TO ROUGH-IN.

STATE OF MICHIGAN
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E2.1

Job No. 21-4512

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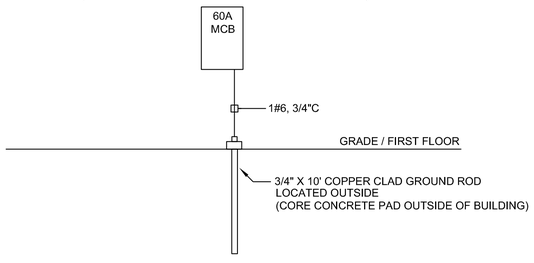
PANEL DESIGNATION: CONCESSION				MOUNTING: SURFACE				FAULT DUTY: 10,000
MLO:	MAIN: 60A,2P		BUS: 100A	VOLTS 120/240		PHASE 1		WIRE: 3 WIRE
EQUIPMENT	WATTS		BRKR		BRKR	WATTS		EQUIPMENT
DESCRIPTION	A	C	SIZE		SIZE	A	C	DESCRIPTION
R-REFRIGERATOR	900		20	1 2	20	656		LTG / R-(3) CONV.
R-APPLIANCE		1500	20	3 4	20			SPARE
R-APPLIANCE	1500		20	5 6	20			SPARE
R-APPLIANCE		1500	20	7 8	20			SPARE
R-CAMERA COMPUTER	480		20	9 10	20			SPARE
R-SOUND SYSTEM		350	20	11 12	20			SPARE
TOTAL "A"	2880			3536		656		6.9 CONN. KVA
TOTAL "C"		3350		3350			0	28.7 CONN. AMPS
								6.9 DEMAND KVA
TOTAL "A/C"				6886				28.8 DEMAND AMPS

	CONNECTED LOAD			DEMAND FACTOR	DEMAND LOAD	
L	LIGHTING	0.116	kVA	1.25	0.145	kVA
R	RECEPTACLES	0.54	kVA	1.0(FIRST 10KVA)+0.5(REST)	0.54	kVA
M	MOTOR / APPLIANCE / EQUIP.	6.23	kVA	DEMAND	6.23	kVA
M	LARGEST MOTOR	–	kVA	1.25	–	kVA
AC	AIR CONDITIONING	–	kVA	DEMAND	–	kVA
H	HEAT	–	kVA	1.25	–	kVA
	TOTAL CONNECTED LOAD:	6.886	kVA	TOTAL DEMAND LOAD:	6.915	kVA
				TOTAL DEMAND CURRENT:	28.8	AMPS

PANELBOARD GENERAL NOTES:
1. PROVIDE A TYPED PANELBOARD DIRECTORY FOR THE NEW PANEL ON THE PROJECT.

NEW PANEL CONCESSION
60A,120/240,1Ø,3W
(REPLACING EXISTING LOAD CENTER)
(NO CONNECTION BETWEEN NEUTRAL AND GROUND)



RISER DIAGRAM

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMP		FIXTURE		MANUFACTURER AND CATALOG SERIES	REMARKS
		QUANT.	TYPE/CRI-CT	WATTS	VOLTS		
F1	4' LED SURFACE MOUNTED WRAPAROUND WITH ACRYLIC LENS, 4000 LUMENS, 3500K COLOR TEMP, AND ELECTRONIC DRIVER	ARRAY	LED	29	UNV	LITHONIA #LBL4-LP835-MVOLT	SEE NOTES 1 & 2

LIGHT FIXTURE NOTES:
1. SURFACE MOUNT THE FIXTURES TO THE CEILING.
2. EQUIVALENT BY OTHER IS ACCEPTABLE.

CONTROLS LEGEND

SYMBOL	DESCRIPTION	MODEL NUMBER
VC $	LINE VOLTAGE, DUAL TECHNOLOGY MANUAL-ON, WALL MOUNTED VACANCY SENSOR	# WSX-PDT-SA

SENSOR NOTES:
1. MODEL NUMBERS ARE BASED ON SENSOR SWITCH, INC. (LEVITON, LUTRON AND WATTSTOPPER ARE APPROVED EQUALS)
2. COORDINATE FINISHES WITH ARCHITECT PRIOR TO ORDERING.
3. COORDINATE LOCATION OF NEW VACANCY SENSORS IN FIELD TO MAXIMIZE DEVICE RANGE FOR PROPER OPERATION.
4. SENSORS SHALL BE SET TO MAXIMUM 30 MINUTES.
5. VERIFY WIRING REQUIREMENTS FOR DIMMING WITH THE MANUFACTURER.

STATE OF MICHIGAN
STEVEN VACCARO
ENGINEER
No. 6201063549
LICENSED PROFESSIONAL ENGINEER

FOR REVIEW FOR CONSTRUCTION

DATE						
REVISION						

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Engineers—Architects—Project Managers
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Project Title
Pressbox and Concessions Building Renovation
Big Bay de Noc School
Cooks, Michigan

Date	05-13-2022
Drawn By	SJV
Checked By	DSB

E3.1

Job No. 21-4512