NORTH BRANCH AREA SCHOOLS

ELEMENTARY & RUTH FOX MIDDLE OPERABLE PARTITION REMODELING

NORTH BRANCH, MICHIGAN

CONSTRUCTION DOCUMENTS

MARCH 24, 2022

DIRECTORY

OWNER
NORTH BRANCH AREA SCHOOLS
6655 JEFFERSON
NORTH BRANCH, MI 48461
PH. (810)-688-3570

ARCHITECTS & ENGINEERS
KINGSCOTT ASSOCIATES INC.
229 E. MICHIGAN, SUITE 335
KALAMAZOO, MI 49007
PH. (269)-381-4880
FAX (269)-381-9110

STRUCTURAL
JDH STRUCTURAL ENGINEERING
3000 IVANREST SW SUITE B
GRANDVILLE, MI 49418
PH. (616)-531-6020

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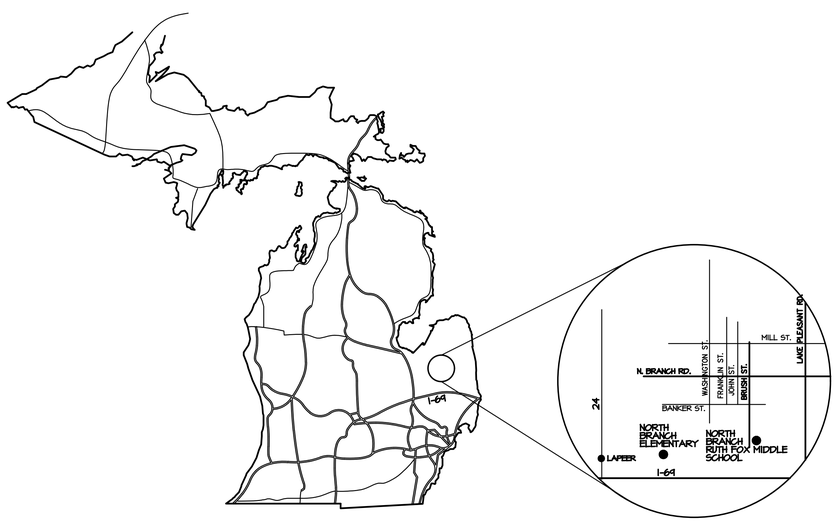

LOCATION MAP

Kingscott
KALAMAZOO | GRAND RAPIDS
CHELSEA | ROYAL OAK
259 East Michigan Ave., Suite 308
Kalamazoo, MI 49007
P: 269.381.4880 | F:269.381.9110
www.kingscott.com

Elementary & Ruth Fox Middle
Operable Partition Remodeling
NORTH BRANCH AREA SCHOOLS
North Branch, Michigan

REVISIONS/REVIEW — DATE
CONSTRUCTION DOCUMENTS — 03/24/2022

KEY PLAN

NORTH

JOB NO. **2667.12C**

SHEET TITLE
TITLE SHEET

SHEET NO.
G0.1

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ABBREVIATIONS

GENERAL

ACP	ACOUSTICAL CEILING PANEL	DO	DITTO	LAB	LABORATORY	S	SOUTH
ACST	ACOUSTIC	DS	DOWNSPOUT	LBS	POUNDS	SAF	SAFETY
ADD	ADDITION	DWG	DRAWING	LG	LENGTH	SCH	SCHEDULE
ADJ	ADJACENT			LIN	LINEAR	SECT	SECTION
ADJT	ADJUSTABLE	E	EAST	LONG	LONGITUDINAL	SECY	SECRETARY
AFF	ABOVE FINISH FLOOR	EA	EACH	LP	LOW POINT	SHT	SHEET
AGG	AGGREGATE	EMER	EMERGENCY			SHT	SHEET
AL OR ALUM	ALUMINUM	ENCL	ENCLOSURE	MAT OR MATL	MATERIAL	SIM	SIMILAR
ALT	ALTERNATE	ENT	ENTRANCE	MAX	MAXIMUM	SPEC	SPECIFICATIONS
APPD	APPROVED	EQ	EQUAL	MCM	THOUSAND CIRCULAR MILLS	SPF	SOUNDPROOF
APPROX	APPROXIMATE	EQUIP	EQUIPMENT	MFR	MANUFACTURER	SQ	SQUARE
AUTO	AUTOMATIC	EST	ESTIMATE	MIN	MINIMUM	SS	STAINLESS STEEL
AVG	AVERAGE	EW	EACH WAY	MISC	MISCELLANEOUS	STA	STATION
		EX OR EXIST	EXISTING	MTD	MOUNTED	STD	STANDARD
B.O.	BOTTOM OF	EXP	EXPOSED	MTL	METAL	STL	STEEL
BF	BARRIER FREE	EXPN	EXPANSION	MT	METAL TRANSITION	STOR	STORAGE
BFG	BELOW FINISHED GRADE	EXT	EXTERIOR			STR	STRUCTURAL
BIW	BETWEEN JOISTS ABOVE	F	FAHRENHEIT	N	NORTH	STWY	STAIRWAY
BJAG	BETWEEN JOISTS	FFA	FINISH FLOOR ABOVE	NIC	NOT IN CONTRACT	SUSP	SUSPENDED
BOJ	BOTTOM	FFB	FROM FLOOR BELOW	NTS	NOT TO SCALE	SYM	SYMMETRICAL
BSMT	BASEMENT	FIG	FIGURE				
		FIN	FINISH	OC	ON CENTER	T.O.	TOP OF
CAP	CAPACITY	FIX	FIXTURE	OD	OUTSIDE DIAMTER	TEL	TELEPHONE
CEM	CEMENT	FL OR FLR	FLOOR	O.D.	OVERFLOW DRAIN	TEMP	TEMPERATURE
CI	CAST IRON	FLEX	FLEXIBLE	OFF	OFFICE	TFA	TO FLOOR ABOVE
CJP	CONTROL JOINT	FLR	FLOOR	OHD	OVERHEAD	TFB	TO FLOOR BELOW
CKD	CHECKED	FRPW	FIRE PROOF	OPNG	OPENING	TJA	THRU JOIST ABOVE
CL	CENTER LINE	F.S.	FULL SIZE	OPP	OPPOSITE	TOL OR T	TOILET
CLO	CLOSET	FT	FEET			TRANSV	TRANSVERSAL
CLOS	CLOSED	FURN	FURNITURE	PERF	PERFORATED	TS	TUBE STEEL
CLR	CLEAR			PI	POINT OF INTERSECTION	TV	TELEVISION
CLRM	CLASSROOM	GA	GAUGE	PL	PLATE	TYP	TYPICAL
CLR	CLEAR	GALV	GALVANIZED	PLAS	PLASTIC		
COMB	COMBINATION	GC	GENERAL CONTRACTOR	P.P.M.	PARTS PER MILLION	UNFIN	UNFINISHED
COMP	COMPOSITION	GEN	GENERAL	PR	PAIR	UNO	UNLESS NOTED OTHERWISE
CONN	CONNECTION	GOVT	GOVERNMENT	PREFAB	PREFABRICATED		
CONST	CONSTRUCTION			PREFIN	PREFINISHED	VERT	VERTICAL
CONT	CONTINUOUS	HD	HAND	PROJ	PROJECT	VEST	VESTIBULE
CONTR	CONTRACTOR	HORZ	HORIZONTAL	PSF	POUNDS/SQUARE FOOT	VIF	VERIFY IN FIELD
COR	CORRIDOR	HP	HIGH POINT			VPL	VINYL
CORR	CORROSION	HR	HOUR	PSI	POUNDS/SQUARE INCH	VOL	VOLUME
CPET	CARPET TILE	HT	HEIGHT	PSF	POUNDS/SQUARE FOOT		
CTR	CENTER			PT	POINT	W	WEST
CUST	CUSTODIAN	ID	INSIDE DIAMETER	PVC	POLYVINYL-CHLORIDE	W/	WITH
CU YD	CUBIC YARDS	IN	INCH	PWL	PLASTIC WARDROBE LOCKER	WD	WOOD
CYL	CYLINDER	INCL	INCLUDE			W/O	WITHOUT
		INFOR	INFORMATION	RAD OR R	RADIUS	WP	WEATHER PROOF
DBL	DOUBLE			R.D.	ROOF DRAIN	W.P.	WORKING POINT
DEPT	DEPARTMENT	JAN	JANITOR	RECD	RECEIVED	WPF	WATER PROOF
DIM	DIMMER	JC	JANITOR CLOSET	RECT	RECTIFIER	WT	WEIGHT
DIAG	DIAGONAL	JCT	JUNCTION	REF	REFERENCE		
DIM	DIMENSION			REM	REMOVABLE	YD	YARD
DIR	DIRECTORY	KIT	KITCHEN	REQD	REQUIRED		
DN	DOWN			REV	REVISIONS	#	PHASE
				RGH	ROUGH		
				RM	ROOM		

SITE / CIVIL

ASPH	ASPHALT	PP	POWER POLE
		PVMT	PAVEMENT
BIT	BITUMINOUS		
		ROW	RIGHT OF WAY
CCB	CATCH BASIN		
CI	CURB INLET	TB	TEST BORING
CMP	CORRUGATED METAL PIPE		
		TOC	TOP OF CURB
FH	FIRE HYDRANT	TOPO	TOPOGRAPHY
GR	GRADE	UG	UNDERGROUND
		UNDEC	UNDECIDATED
H.PT.	HIGH POINT	UTIL	UTILITY
HYD	HYDRANT		
		Y.D.	YARD DRAIN
INV	INVERT		
MH	MAN HOLE		

ARCHITECTURAL /INTERIOR

AB	ANCHOR BOLT	EJ	EXPANSION JOINT	LIN	LINOLEUM FLOORING SHEET/	SC	SEALED CONCRETE
AC	ATHLETIC CARPET	EL	ELEVATION		TILE	SCT	STRUCTURAL CLAY TILE
AD	ACCESS DOOR	ELEV	ELEVATOR	LS	LIBRARY SHELVING	SHTG	SHEATHING
AF	ATHLETIC FLOORING			LT	LIBRARY TABLE	SPM	SINGLE PLY MEMBRANE
AFFF	ACOUSTICAL FORMING FOAM	FB	FACE BRICK	LTF	LIBRARY TILE FLOOR	SS	STAINLESS STEEL
AL	ACRYLIC LIGHT	FDN	FOUNDATION	MS	MUSIC CASEWORK STORAGE	STB	STOP BLOCK
AP	ACCESS PANEL OR	FE	FIRE EXTINGUISHER	MACH	MACHINE	SV	SHEET VINYL FLOORING
	ACCORDIAN PARTITION	FEC	FIRE EXTINGUISHER CABINET	MAL	METAL ATLETIC FLOORING		
APC	ACOUSTICAL PANEL CEILING	FH	FULL HEIGHT	MAS	MASONRY	TB	TACKBOARD
ARCH	ARCHITECTURAL OR ARCHITECT	FHC	FIRE HOSE CABINET	MB	MARKER BOARD	T & G	TONGUE & GROOVE
AWP	ACOUSTICAL WALL PANEL	FLASH	FLASHING	MO	MASONRY OPENING	TBA	TOILET/BATH ACCESSORY
		FLD	FLOORING	MS	MUSIC STANDS	TCU	TOP CURB
B	BASE CABINET	FLT	FLOATING	MT	METAL TRANSITION	TOG	TOP OF GROUT
BD	BOARD	FURR	FURRING	MWL	METAL WARDROBE LOCKER	TOM	TOP OF WALL
BL	BORROWED LIGHT					TP	TOILET PARTITION
BLK	BLOCK	GA	GAGE OR GAUGE	OP	OPERABLE PARTITION	TZ	TERRAZZO
BLKG	BLOCKING	GB	GRAB BAR			TZT	TERRAZZO TILE
BM	BEAM	GL	GLASS	P	PAINT		
BNC	BENCHOSE	GSU	GLAZED STRUCTURAL UNITS	PATT	PATTERN	VBS	VOLLEYBALL STANDARD
BRG	BEARING	GYP	GYPSUM	PLAS	PLASTER	VCT	VINYL COMPOSITION TILE
BRK	BRICK			PLAT	PLATFORM	VDB	VISUAL DISPLAY BOARD
BS	BACKSTOP	HDR	HARDENER	PLG	PLASTER, GYPSUM	VRB	VENTED RUBBER BASE
BUR	BUILT-UP ROOFING	HDRL	HANDRAIL	PL OR PLAM	PLASTIC LAMINATE	VWC	VINYL WALL COVERING
		HDW	HARDWARE	PLYWD	PLYWOOD		
CAB	CABINET	HDWD	HARDWOOD	PPC	PLASTER, PORTLAND CEMENT	W	WALL CABINET
CB	CHALK BOARD	HM	HOLLOW METAL	PSC	PLASTER SCHEDULE	WB	WOOD BASE
CJ	CONTROL JOINT	HPC	HIGH PERFORMANCE COATING		PLASTERBOARD SCREED/	WBB	WOOD BASE CABINET
CLG	CEILING		SYSTEM	PSE	ELECTRICAL	WDW	WINDOW
CMU	CONCRETE MASONRY UNIT				PROJECTION SCREED/MANUAL	WGL	WIRE GLASS
CNTR	COUNTER	INSUL	INSULATION	PTN	PARTITION	WM	WALL MAT
COL	COLUMN	INT	INTERIORS			WPD	WALL PADS
CONC	CONCRETE			1/4 RD	QUARTER ROUND	WPF	WOOD PERFORMANCE FLOOR
CPT	CARPET TILE	JAN	JANITOR			WPFG	WATER PROOFING
CPT	CARPET (SEE DOOR SHTS)	JC	JANITOR CLOSET	RISER	RISER	WSF	WOOD STAGE FLOOR
CPTT	CARPET TILE	JT	JOINT	RAF	RESILIENT ATHLETIC FLOOR	WT	WOOD TALL CABINETS
CS	COUNTER SINK			RB	RESILIENT BASE	WW	WOOD WALL CABINETS
CSMT	CASEMENT	KIT	KITCHEN	RCVR	RECEIVER		
CTF	CERAMIC TILE FLOOR	KP	KICK PLATE	REFG	REFRIGERATOR		
CTW	CERAMIC TILE WALL	KS	KNEE SPACE	RESIL	RESILIENT		
				RFG	ROOFING		
DA	DOUBLE ACTING	LC	LIBRARY CIRCULATION DESK	RFS	RUBBER FLOOR SHEET		
DH	DOUBLE HUNG	LAB	LABORATORY	RFT	RUBBER FLOOR TILE		
DMPR	DAMP PROOFING	LCH	LIBRARY CHAIR	RSTA	RESILIENT STAIR TREAD		
DR	DOOR	LKR	LOCKER		ACCESSORY		
DSP	DISPENSER			RT	RESILIENT TRANSITION		

MECHANICAL

A	COMPRESSED AIR	E.A.	EXHAUST AIR	HWH	HOT WATER HEATER	RS	REFRIGERANT SUCTION
AC	AIR CONDITIONING UNIT	E.A.T.	ENTERING AIR TEMPERATURE	HX	HEAT EXCHANGER	RTU	ROOF TOP UNIT
ACCU	AIR COOLED CONDENSING UNIT	EDR	EQUIVALENT DIRECT				
A.D.	AREA DRAIN		RADIATION	IF	INLINE FAN		SINK (MECH. SHTS)
AH	AIR HANDLING UNIT	EF	EXHAUST FAN	I.P.	IRON PIPE	SA	SOUND ATTENUATOR
A.I.	AREA INLET	EG	EXHAUST GRILLE			S.A.	SUPPLY AIR
APD	AIR PRESSURE DROP	ER	EXHAUST REGISTER	LAV	LAVATORY	SAN	SANITARY SEWER
AV	ACID VENT	ET	EXPANSION TANK			S.A.R.	SUPPLY AIR RETURN
AW	ACID WASTE	EV	EXPANSION VALVE	LEAV	LEAVING AIR TEMPERATURE	SD	SUPPLY DIFFUSER
AWT	AVERAGE WATER TEMPERATURE	EW	EYE WASH	LPS	LOW PRESSURE STEAM	S.D.	SUB DRAIN
		EWC	ELECTRIC WATER COOLER	L.W.T.	LEAVING WATER TEMPERATURE	SH	SHOWER HEAD
B	BOILER	E.W.T.	ENTERING WATER			SI	SOLID INTERCEPTOR
BT	BATH TUB		TEMPERATURE	MB	MOP BASIN	S.O.V.	SHUT OFF VALVE
BTU	BRITISH THERMAL UNIT			MBH	BTU PER HOUR (THOUSAND)	S.P.	STATIC PRESSURE
BTUH	BTU PER HOUR	FA	FRESH AIR	MECH	MECHANICAL CONTRACTOR	SPH	SPACE HEATER
		FC	FAN COIL	MOD	MOTOR OPERATED DAMPER	SPR	SPRINKLER
C	CHILLER (MECH SHTS)	FD	FLOOR DRAIN			SS	SOIL STACK
C	CONDENSATE (PLUMBING SHTS)	F.D.	FIRE DAMPER			ST	STORM
CD	CONDENSATE DRAIN	FM	FUME HOOD	NS	NIGHT STAT	SW	SOFT WATER
CFM	CUBIC FEET PER MINUTE	FP	FIRE PROTECTION			SWC	STEAM TO WATER CONVECTOR
CH	CABINET HEATER	F.P.M.	FEET PER MINUTE	O.A.	OUTSIDE AIR		
CHR	CHILLED WATER RETURN	FS	FINNED TUBE RADIATION	O.S.&Y.	OUTSIDE SCREW & YOKE		THERMOSTAT
CHS	CHILLED WATER SUPPLY	FS	FLOOR SINK			TCC	TEMPERATURE CONTROL CONTRACTOR
CHU	COOLING & HEATING UNIT	G		P	PUMP		
CO	CLEANOUT		NATURAL GAS	PCF	POUNDS PER CUBIC FOOT	TCP	TEMPERATURE CONTROL PANEL
CO2	CARBON DIOXIDE	GPH	GALLONS PER HOUR	PCR	PUMPED CONDESATE RETURN	THSTAT	THERMOSTAT
COMB	COMBUSTION	GPM	GALLONS PER MINUTE	PD	PUMP DISCHARGE		
CP	CIRCULATING PUMP	GT	GREASE TRAP	POST	POST INDICATING VALVE	UH	UNIT HEATER
CR	CONDENSER WATER RETURN PIPE	GVTR	GAS VENT THRU ROOF	P.L.W.	PLUMBING	UR	URINAL
CS	CONDENSER WATER SUPPLY PIPE			PNEU	PNEUMATIC OPERATED	UV	UNIT VENTILATOR
CSH	COLUMN SHOWER	H	HUMIDISTAT		DAMPER		
CTP	COOLING TOWER PUMP	HB	HOSE BIBB	PRV	PRESSURE REGULATING		VENT
CU	CONDENSING UNIT	HD	HEAD		VALVE	VB	VALVE BOX
CV	CONVECTOR	H.I.D.	HIGH INTENSITY DISCHARGE			VCP	VITRIFIED CLAY PIPE
CW	COLD WATER	H.P.	HIGH PRESSURE	R.A.	RETURN AIR	VD	VOLUME DAMPER
		HR	HOUR (HOT WATER	RAD	RADIATOR	VENT	VENTILATION
DB	DRY BULB		RETURN)	RGD	REGISTER	VS	VENT STACK
DEG	DEGREE	HS	HEATING HOT WATER	RF	RETURN FAN	VTR	VENT THRU ROOF
DF	DRINKING FOUNTAIN		SUPPLY PIPE	RG	RETURN GRILLE		
D.H.	DUCT HEATER	HTG	HEATING	RH	ROOF HOOD		WASTE (MECH SHTS)
DLI	DUCT LINING INSULATION	HTR	HEATER	R.H.	RELATIVE HUMIDITY	WB	WET BULB
DPR	DAMPER	HVAC	HEATING VENTILATION/	RL	REFRIGERANT LIQUID	WC	WATER CLOSET
DRN	DRAIN		AIR CONDITIONING	RP	RADIANT PANEL	WCB	WASHER CONNECTION BOX
		HW	HOT WATER	R.P.M.	REVOLUTIONS PER MINUTE	WH	WALL HYDRANT
		HWR	HOT WATER RECIRCULATING	RR	RETURN REGISTER	WPD	WATER PRESSURE DROP

ELECTRICAL

A OR AMP	AMPHERE	LP.	LIGHTING PANEL (ELEC SHTS)
AWG	AMERICAN WIRE GAUGE	LT	LIGHT
		LTG	LIGHTING
C	CONDUIT (FOR RACEWAY – ELEC. SHTS)	MCA	MINIMUM CIRCUIT AMPACITY
CKT	CIRCUIT	MG	MOTOR GENERATOR
CKT BRK	CIRCUIT BREAKER	MH	METAL HALIDE
C.T.	CABLE TRAY		
		NL	NIGHT LIGHT
DC	DIRECT CURRENT		
DISC	DISCONNECT	OS	OCCUPANCY SENSOR
DIST	DISTRIBUTION		
DP	DISTRIBUTION PANEL	PA	PUBLIC ADDRESS
		PBS	PUSH BUTTON STATION
EC	ELECTRICAL CONTRACTOR	PH	PHASE (MECH. ELEC SHTS)
ELEC	ELECTRIC OR ELECTRICAL	PNL	PANEL
EP	ELECTRICAL PANEL		
		RECP	RECEPTACLE
FA	FIRE ALARM	RLA	RUNNING LOAD AMPS
FTC	FOOT CANDLE (ELEC. SHTS)		
FLUOR	FLUORESCENT	SPKR	SPEAKER
		SSJB	SOUND SYSTEM JUNCTION BOX
G.F.I.	GROUND FAULT INTERRUPTOR	SW	SWITCH
GND OR GRND	GROUND	SWBD	SWITCHBOARD
HP	HORSE POWER	TCL	TOTAL CONNECTED LOAD
HPS	HIGH PRESSURE SODIUM		
HZ	HERTZ	V	VOLT
		VFD	VARIABLE FREQUENCY DRIVE
IC	INTERCOM		
IES	ILLUMINATING ENGINEERING SOCIETY	WHM	WATTHOUR METER
INCAND	INCANDSCENT	XFMR	TRANSFORMER
INV	INVERTER		
		#	PHASE
JB	JUNCTION BOX		
KO	KNOCKOUT		
KV	KILOVOLTS		
KVA	KILOVOLT AMPERES		
KW	KILOWATT		

PLUMBING SYMBOLS

- DOMESTIC COLD WATER (CW)
- DOMESTIC HOT WATER (HW)(110°F)
- DOMESTIC HOT WATER RETURN
- 180° — 180°F DOMESTIC HOT WATER
- 140° — 140°F DOMESTIC HOT WATER
- SW — SOFT WATER
- A — COMPRESSED AIR
- PD — PUMPED DISCHARGE
- SAN — SANITARY DRAIN ABOVE FLOOR OR GRADE
- SAN — SANITARY DRAIN BELOW FLOOR OR GRADE
- AW — ACID WASTE
- AV — ACID VENT
- ST — STORM DRAIN ABOVE FLOOR OR GRADE
- ST — STORM DRAIN BELOW FLOOR OR GRADE
- V — VENT ABOVE & BELOW GRADE
- CD — CONDENSATE DRAIN
- G — NATURAL GAS
- DIRECTION OF FLOW OR PITCH
- LAVATORY (L)
- URINAL (UR)
- FLUSH TANK WATER CLOSET (WC)
- FLUSH VALVE FLOOR MOUNTED WC
- FLUSH VALVE WALL MOUNTED WC
- SHOWER HEAD (SH)
- SERVICE SINK OR MOP BASIN (SS)
- FLOOR DRAIN (FD) OR FLOOR SINK (FS)
- ROOF DRAIN (RD)
- WATER HAMMER ARRESTER
- WALL HYDRANT OR HOSE BIBB
- ELBOW RISING
- ELBOW DROPPING
- TEE–COMING UP
- TEE–DROPPING DOWN
- 90° EL
- 90° EL LONGSWEEP
- P. TRAP
- CO — CLEANOUT–UP TO FLOOR
- CO — CLEANOUT–ABOVE GRADE
- CONNECTION TO EXISTING

MECHANICAL SYMBOLS

- 20/12 — DUCT SIZE: WIDTH/DEPTH
- ACOUSTICAL LINED DUCT
- FLEXIBLE CONNECTION
- FLEXIBLE DUCT
- MANUAL SPLITTER
- MANUAL VOLUME DAMPER
- MANUAL VOLUME DAMPER
- HORIZONTAL POSITION FIRE DAMPER
- VERTICAL POSITION FIRE DAMPER
- SMOKE DAMPER
- VERTICAL POSITION COMBINATION FIRE/SMOKE DAMPER
- HORIZONTAL POSITION COMBINATION FIRE/SMOKE DAMPER
- AIR FLOW DIRECTION
- SUPPLY DUCT, DIFFUSER, OR REGISTER
- RETURN OR EXHAUST DUCT, GRILLE, OR REGISTER
- DUCT UP THRU ROOF OR FLOOR
- FRESH AIR DUCT
- SLOT DIFFUSER
- EXHAUST DUCT THRU ROOF TO FAN
- DUCT THRU ROOF TO RELIEF OR INTAKE HOOD
- OPERATED DAMPER
- TAG FOR DIFFUSER, REGISTER OR GRILLE
- EQUIPMENT TAG
- CONNECTION TO EXISTING
- PRESSURE GAUGE W/COCK
- THERMOMETER
- AUTOMATIC AIR VENT
- MANUAL AIR VENT
- PLUG COCK
- CALIBRATED BALANCE VALVE
- UNION
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- PIPE ANCHOR
- PIPE GUIDE
- GATE VALVE
- GLOBE VALVE
- BALL VALVE
- VALVE IN RISER
- BUTTERFLY VALVE
- 2–WAY CONTROL VALVE
- 3–WAY CONTROL VALVE
- CHECK VALVE
- PRESSURE REGULATING VALVE
- STRAINER
- STEAM TRAP
- TEMPERATURE & PRESSURE RELIEF VALVE
- BACKFLOW PREVENTER
- INLINE PUMP
- CAP
- FLOW SWITCH
- N — NIGHT STAT
- H — HUMIDISTAT
- T — THERMOSTAT
- S — SENSOR
- THERMOSTAT–ASPIRATING TYPE
- THERMOSTAT W/GUARD
- TEMPERATURE SENSOR W/ GUARD
- HS — LOW TEMPERATURE HOT WATER SUPPLY
- HR — LOW TEMPERATURE HOT WATER RETURN
- CHS — CHILLED WATER SUPPLY
- CHR — CHILLED WATER RETURN
- CS — CONDENSER WATER SUPPLY
- CR — CONDENSER WATER RETURN
- RS — REFRIGERATION SUCTION LINE
- RL — REFRIGERATION LIQUID LINE
- LPS — LOW PRESSURE STEAM
- C — CONDENSATE
- PCR — PUMPED CONDENSATE RETURN
- DIRECTION OF FLOW OR PITCH
- MECHANICAL / PIPING DEMOLITION

ELECTRICAL SYMBOLS

- CIRCUIT – SWITCHED
- CIRCUIT – UNSWITCHED
- LOW VOLTAGE SWITCHING
- CONDUIT: TURNED UP
- CONDUIT: TURNED DOWN
- 2" CONDUIT STUB W/NYLON BUSHING ABOVE CEILING, UNO
- SURF. MTD. RACEWAY WITH WIRING DEVICES, SEE DETAIL
- GROUND
- CABLE TRAY ABOVE CEILING
- SURF. MTD. DUAL COMPART. RACEWAY WITH WIRING DEVICES SEE DETAIL
- HOME RUN TO ELECTRICAL PANEL
- WALL MOUNTED DESIGNATION
- PA SPEAKER – CEILING MOUNTED (DASHED LINE IF BY OTHERS)
- SOUND SYSTEM SPEAKER (DASHED LINE IF BY OTHERS)
- INTERCOM STATION
- MICROPHONE OUTLET
- CEILING MOUNTED MICROPHONE OUTLET
- SPEAKER VOLUME CONTROL
- PROGRAM BELL
- JUNCTION BOX
- TELEPHONE/INTERCOM OUTLET DOUBLE GANG BOX W/SINGLE GANG COVER 18" AFF UNO
- WALL TELEPHONE OUTLET DOUBLE GANG BOX W/SINGLE GANG COVER 48" AFF UNO
- PAY TELEPHONE 48" AFF UNO
- $ — SWITCH – SINGLE POLE
- $2 — SWITCH – 2 POLE
- $3 — SWITCH – 3 WAY
- $4 — SWITCH – 4 WAY
- $D — SWITCH – DIMMER
- $F — SWITCH – FUSED
- $M — MANUAL MOTOR STARTER
- $EP — SWITCH–EXPLOSION PROOF
- $P — SWITCH W/PILOT LIGHT
- $L — SWITCH–LOW VOLTAGE
- $T — SPRING WOUND TIMER SWITCH
- $K — SWITCH–KEY OPERATED
- $O — SWITCH–WALL MTD, PASSIVE INFRARED O.S.
- $O2 — DUAL SWITCH–WALL MTD. PASSIVE INFRARED O.S.
- $PS — SWITCH – PROJECTION SCREEN
- DSP — DUAL TECHNOLOGY O.S.
- OSP — PASSIVE INFRARED O.S.
- OSU — ULTRASONIC O.S.
- PR — POWER PACK(S)
- SINGLE FACE WALL MOUNTED EXIT SIGN 6" ABOVE DOOR FRAME UNO (WIRE HOT)
- SINGLE FACE CEILING MOUNTED EXIT SIGN (WIRE HOT)
- DOUBLE FACE CEILING MOUNTED EXIT SIGN (WIRE HOT)
- EMERGENCY LIGHT – WALL MOUNTED (WIRE HOT)
- WALL MOUNTED LIGHT
- WALL MOUNTED LIGHT
- NL — CEILING MOUNTED NIGHT LIGHT
- SURFACE MOUNTED LIGHT
- PENDANT MOUNTED LIGHT
- RECESSED LIGHT
- CEILING MOUNTED DIRECTIONAL LIGHT
- 1'x4' SURFACE MOUNTED LIGHT
- 1'x4' PENDANT MOUNTED LIGHT
- 1'x4' RECESSED LIGHT
- 2'x2' SURFACE/PENDANT MOUNTED LIGHT
- 2'x2' RECESSED LIGHT
- 2'x4' SURFACE MOUNTED LIGHT
- 2'x4' PENDANT MOUNTED LIGHT
- 2'x4' RECESSED LIGHT
- POLE MOUNTED LIGHT W/ ARM
- EMERGENCY LIGHT
- COVE LIGHT
- FLUORESCENT STRIP/ INDUSTRIAL LIGHT
- TRACK LIGHT
- QUADPLEX RECEPTACLE
- QUADPLEX RECEPTACLE MTD. ABOVE COUNTERTOP BACKSPLASH UNO
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE MTD. HORIZONTALLY 2" (TO BOTTOM) ABOVE COUNTERTOP BACKSPLASH, UNO
- WP/GFI — WEATHERPROOF/GFI RECEPTACLE
- EP — EXPLOSION PROOF RECEPTACLE
- EWC — ELECTRIC WATER COOLER DEVICE INSTALLED BEHIND UNIT
- GFI — DUPLEX RECEPTACLE–GROUND FAULT CIRCUIT INTERRUPTER
- PS — POWER OUTLET TO MATCH EQUIPMENT
- SPECIAL CONNECTION AS INDICATED ON DWGS
- FLOOR MOUNTED COMBINATION POWER/DATA/VOICE OUTLET – SEE DETAIL
- FLOOR MOUNTED RECEPTACLE
- COMBINATION RECEPTACLE & SWITCH
- POWER POLE – TWO COMPARTMENT POWER AND DATA/VOICE
- 3 1/2" DEEP DATA/VOICE OUTLET DOUBLE GANG BOX W/COVER
- COMBINATION QUADPLEX RECEPTACLE/DATA/VOICE OUTLET ABOVE COUNTERTOP BACKSPLASH UNO, SEE DETAIL
- COMBINATION POWER/ TELEVISION OUTLET – SEE DETAIL
- COMBINATION POWER/DATA/ VOICE/TV OUTLET – SEE DETAIL
- SURFACE MOUNTED DATA/VOICE RACEWAY
- SURFACE MOUNTED TELEVISION RACEWAY
- SURFACE MOUNTED DATA/VOICE/TV RACEWAY
- TECHNOLOGY CABINET CONNECTION – QUADPLEX INSIDE CABINET AND GROUND CONNECTION TO GROUND BAR – SEE DETAIL
- WIREWAY – VERTICAL RISER
- P — PHOTOCELL
- C — CONTACTOR
- TC — TIMECLOCK
- WALL MOUNTED CLOCK OUTLET
- WALL MOUNTED CLOCK AND OUTLET
- WALL MOUNTED DBL. FACE CLOCK AND OUTLET
- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- FP — FIRE ALARM PULL STATION
- FA — FIRE ALARM HORN
- AV — AUDIO/VISUAL FIRE ALARM DEVICE
- V — VISUAL FIRE ALARM DEVICE
- SD — SMOKE DETECTOR
- FD — HEAT DETECTOR
- DUCT DETECTOR – SEE DETAIL
- SD — SPRINKLER VALVE TAMPER SWITCH
- FS — SPRINKLER VALVE FLOW SWITCH
- SMOKE DAMPER
- VERTICAL POSITION COMBINATION FIRE/SMOKE DAMPER
- HORIZONTAL POSITION COMBINATION FIRE/SMOKE DAMPER
- FIRE ALARM BELL
- MAGNETIC DOOR HOLDER
- PUSHBUTTON STATION
- EMERGENCY POWER OFF PUSHBUTTON
- DOOR MONITOR SWITCH WITH 3/4"C STUBBED FROM DOOR FRAME INTO CEILING SPACE
- ELECTRIC DOOR STRIKE/ MONITOR SWITCH W/3/4" C. STUBBED FROM DOOR FRAME INTO CEILING SPACE
- CARD READER ROUGHED–IN W/4 DOUBLE GANG JUNCTION BOX W/3/4"C. STUBBED INTO CLG. SPACE
- MOTION DETECTOR
- CLOSED CIRCUIT TV CAMERA ROUGH–IN
- CIRCUIT BREAKER
- FUSIBLE SWITCH
- TRANSFORMER
- T — TRANSFORMER
- TRANSFORMER ON PAD
- NON–FUSIBLE DISCONNECT SWITCH
- FUSIBLE DISCONNECT SWITCH
- MAGNETIC STARTER
- COMBINATION FUSIBLE DISCONNECT SWITCH/STARTER
- SPD — SURGE PROTECTION DEVICE
- 480/277 VOLT PANELBOARD
- EXISTING PANELBOARD
- 120/208 OR 120/240 VOLT PANELBOARD
- SINGLE PHASE MOTOR CONNECTION
- THREE PHASE MOTOR CONNECTION
- GROUND BAR, SEE DETAIL

NOTE:
1. NOT ALL SYMBOLS ARE NECESSARILY USED WITHIN THIS SET OF DOCUMENTS.
2. LIGHT LINE WEIGHTS INDICATE EXISTING CONSTRUCTION WHILE DARK LINE WEIGHTS INDICATE NEW CONSTRUCTION. U.N.O. THIS IS TYPICAL FOR ALL DISCIPLINES AND DRAWINGS.

FIRE PROTECTION SYMBOLS

- F — FIRE PROTECTION LINE
- FIRE DEPARTMENT SIAMESE CONNECTION
- FLOW DETECTOR/SWITCH
- VALVE W/TAMPER SWITCH
- ELECTRIC BELL (GONG)
- SPRINKLER HEAD GENERAL
- SIDEWALL SPRINKLER
- SPRINKLER RISER

UTILITY SYMBOLS

- SITE DEMOLITION
- SAN — SANITARY – BELOW GRADE
- ST — STORM – BELOW GRADE
- G — NATURAL GAS
- W — WATER
- T — TELEPHONE
- P — PRIMARY ELECTRIC POWER
- S — SECONDARY ELECTRIC POWER
- VALVE BOX
- STORM WATER/DRYWELL
- MANHOLE
- CATCH BASIN
- FIRE HYDRANT
- TRENCH DRAIN
- DROP INLET
- SIAMESE CONNECTION
- THRUST BLOCK
- POST INDICATOR & VALVE
- POLE MOUNTED HID FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- LANDSCAPE LIGHTING
- GUY ANCHOR
- POWER POLE
- TRANSFORMER
- POLE MOUNTED TRANSFORMER

ARCHITECTURAL & INTERIOR SYMBOLS

- XXX — ROOM NUMBER
- XXX — DOOR/BORROWED LITE
- X — WINDOW/STOREFRONT/ INSULATED PANEL NUMBER
- X — PARTITION TYPE (ON REFLECTED CEILING PLANS)
- ELEVATION
- XX — BUILDING SECTION
- XX — WALL SECTION
- XXXX — INTERIOR ELEVATION
- XXXX — EXTERIOR ELEVATION
- TELEVISION
- X/X.XX — PLAN/SECTION DETAIL
- 09250A CS — SECTION T — REFERENCE — KEYNOTE DESIGNATION
- EXISTING CONSTRUCTION (LIGHT LINES)
- NEW CONSTRUCTION (SEE MATERIAL INDICATIONS BELOW)
- XXX — EQUIPMENT TAG
- XXX — ALTERNATE EQUIPMENT TAG
- INTERIOR TALL WARDROBE CABINETW/ SPRINKLER HEAD (HEALTH CARE FACILITIES ONLY)

REFLECTED CEILING SYMBOLS

- 2'x4' SURFACE MOUNTED LIGHT FIXTURE
- 1'x4 'SURFACE MOUNTED LIGHT FIXTURE
- 2'x2' SURFACED / PENDANT MOUNTED LIGHT FIXTURE
- 12"x12" SURFACED / PENDANT MOUNTED LIGHT FIXTURE
- SURFACED / PENDANT MOUNTED LIGHT FIXTURE
- 2'x4' RECESSED LIGHT FIXTURE
- 1'x4' RECESSED LIGHT FIXTURE
- 2'x2' RECESSED LIGHT FIXTURE
- 12"x12" RECESSED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- CEILING MTD. EXIT SIGN
- INDUSTRIAL FLUORESCENT
- COVE LIGHT FIXTURE
- SMOKE DETECTOR
- PUBLIC ADDRESS SPEAKER
- SOUND SYSTEM SPEAKER
- DROP CORD RECEPTACLE
- CEILING FAN
- ROOF HATCH
- SPRINKLER HEAD
- HVAC SUPPLY/DIFFUSER
- HVAC SUPPLY/DIFFUSER
- HVAC RETURN/EXHAUST GRILLE
- SLOT DIFFUSER
- TRACK LIGHT

COLOR LAY–OUT SYMBOL KEY

- CARPET (LENGTH OF PRODUCTS)
- MATCH ANGLES
- STAIR TREAD WITH PHOTOILLUMINESCENT NOSING
- WORK POINT
- CERAMIC TILE FLOOR (CTF)
- TZ
- IPS/MIC (AT WALLS)
- CER

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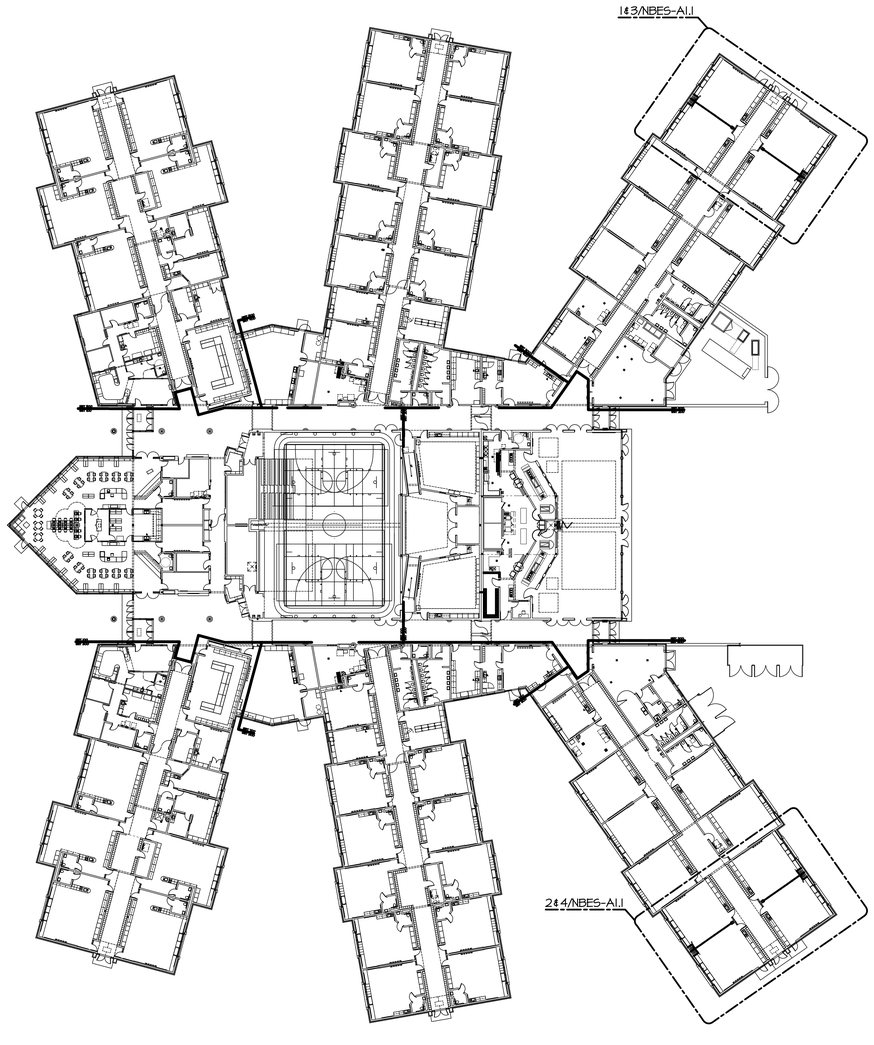
NORTH BRANCH AREA SCHOOLS

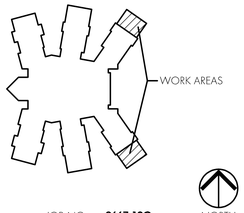
North Branch, Michigan



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

REVISIONS/REVIEW	DATE
CONSTRUCTION DOCUMENTS	03/24/2022

KEY PLAN



NORTH

JOB NO. 2667.12C

SHEET TITLE
COMPOSITE FLOOR PLAN

SHEET NO.
NBES-A0.1

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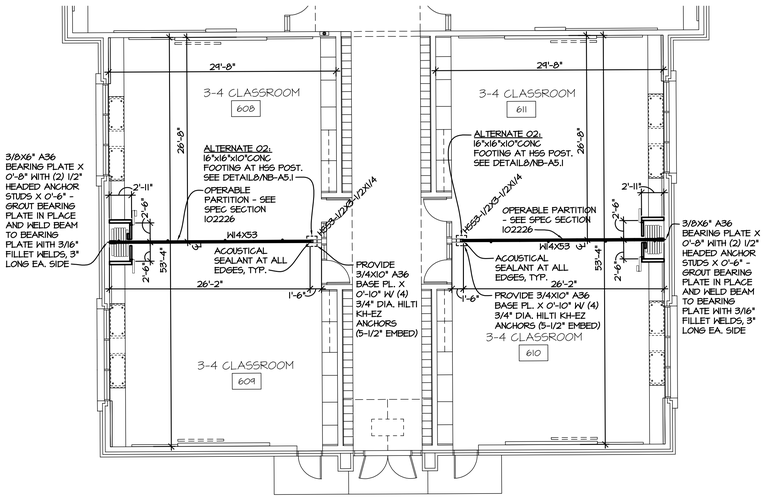
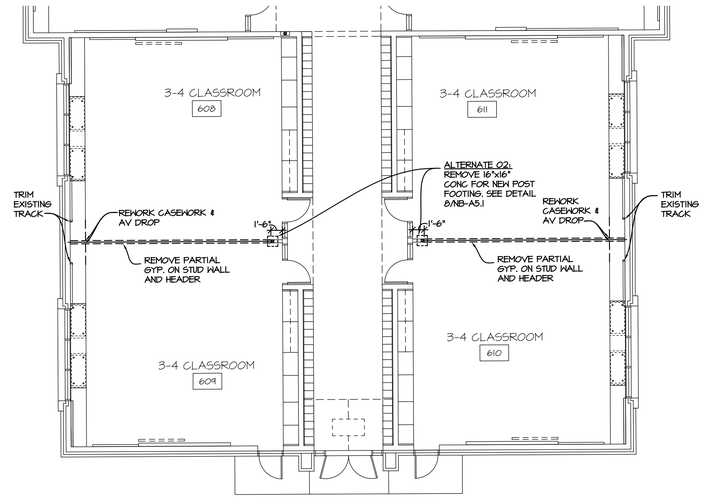
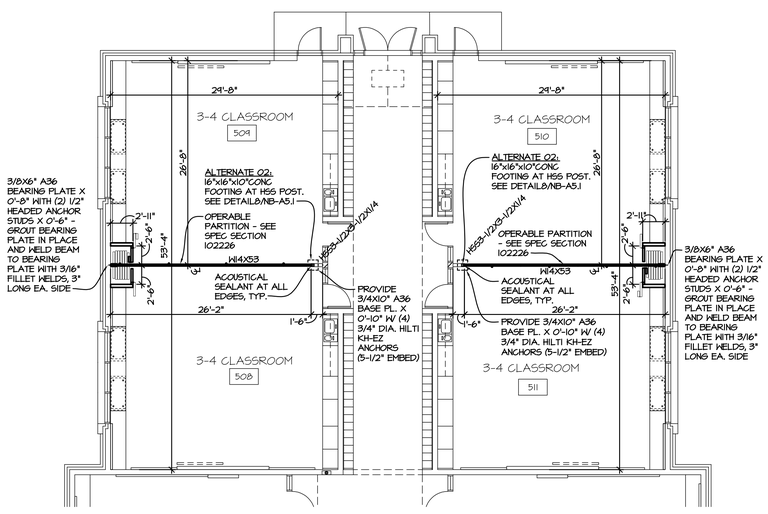


4 PARTIAL FLOOR PLAN - UNIT 600
SCALE: 1/8" = 1'-0"



2 PARTIAL DEMOLITION PLAN - UNIT 600
SCALE: 1/8" = 1'-0"



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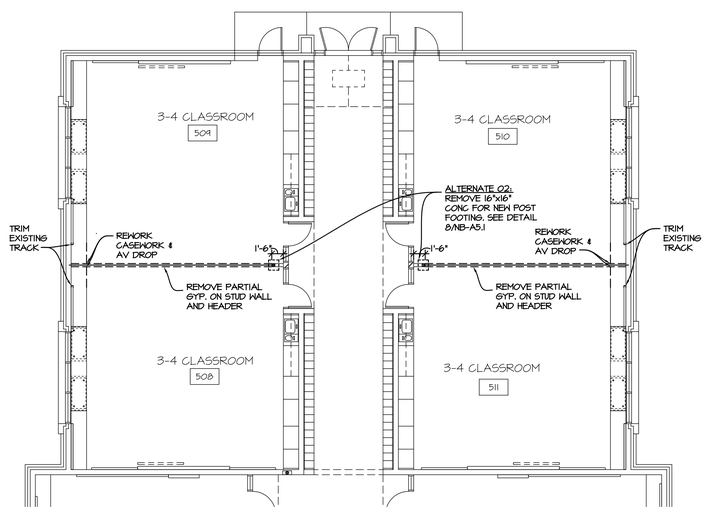

1 PARTIAL DEMOLITION PLAN - UNIT 500
SCALE: 1/8" = 1'-0"

GENERAL ARCHITECTURAL DEMOLITION NOTES:

1. THE DEMOLITION PLANS GENERALLY INDICATE AREAS OF EXTENSIVE REMOVALS AND DO NOT INDICATE ALL OF THE WORK. CONTRACTOR SHALL PERFORM ALL THE DEMOLITION WHICH IS NECESSARY FOR THE PROPER EXECUTION OF THE PROJECT, WHETHER OR NOT SAID DEMOLITION IS SPECIFICALLY INDICATED WITHIN THE DOCUMENTS.
2. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ALL OTHER DRAWINGS AND SPECIFICATIONS FOR OTHER AREAS THAT WILL REQUIRE DEMOLITION NOT INDICATED ON THESE SHEETS.
3. CONTRACTOR IS RESPONSIBLE TO INFILL, PATCH AND/OR REPAIR EXISTING WALLS, FLOORS AND CEILINGS TO MATCH EXISTING WHERE DEMOLITION OCCURS OTHER THAN AS DESCRIBED IN THESE DOCUMENTS.
4. IT IS THE INTENTION OF THESE DOCUMENTS THAT THE DEMOLITION OF PORTIONS OF MASONRY WALLS (BOTH INTERIOR AND EXTERIOR) ARE GENERALLY TO BE DONE ALONG JOINT AND COURSING LINES.
5. PATCH AND REPAIR REMAINING ADJACENT SURFACES AT AREAS OF REMOVAL AND/OR ALTERATION TO MATCH EXISTING. PROVIDE A SOUND AND PROPER SUBSTRATE FOR NEW FINISH. COORDINATE WITH COLOR PLANS. WHERE A NEW FINISH IS NOT INDICATED, MATCH EXISTING ADJACENT FINISHES.
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7. PROVIDE TEMPORARY SHORING, BRACING, AND/OR SUPPORTS AS REQUIRED FOR WALL AND/OR ROOF AT AREAS OF REMOVAL AND ALTERATION.
8. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR FURTHER DEMOLITION NOTES.
9. DEMOLISH MISCELLANEOUS ITEMS SUCH AS PLYWOOD, NAILS, HOOKS, ETC., FROM WALLS & PATCH AS INDICATED IN THESE DOCUMENTS.

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
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12. SEE SHEET NB-A5.1 FOR STRUCTURAL CONNECTION DETAILS AND STRUCTURAL NOTES.

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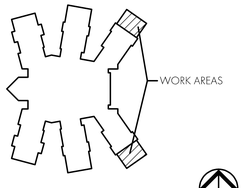
NORTH BRANCH AREA SCHOOLS

North Branch, Michigan

REVISIONS/REVIEW — DATE
CONSTRUCTION DOCUMENTS — 03/24/2022

KEY PLAN



NORTH

JOB NO. 2667.12C

SHEET TITLE
PARTIAL DEMOLITION & FLOOR PLANS

SHEET NO.
NBES-A1.1

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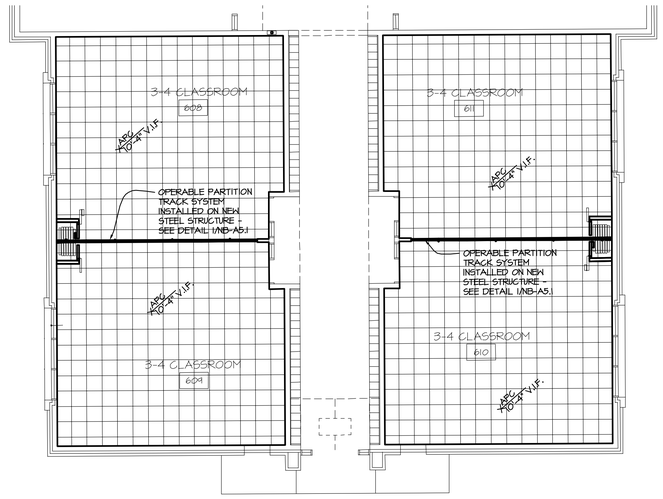
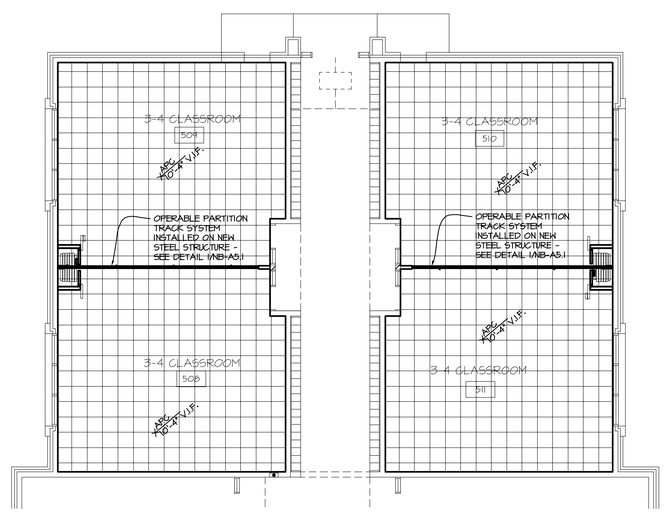
REFLECTED CEILING LEGEND

EXISTING ACOUSTICAL PANEL CEILING TO REMAIN - PORTION OF CEILING TILE AND GRID MAY NEED TO BE REMOVED FOR STEEL AND TRACK INSTALLATION

REFERS TO EXISTING CEILING HEIGHT TO REMAIN BASED ON EXISTING FINISHED FLOOR ELEVATIONS, V.I.F.



2 PARTIAL REFLECTED CEILING PLAN - UNIT 600
SCALE: 1/8" = 1'-0"



1 PARTIAL REFLECTED CEILING PLAN - UNIT 600
SCALE: 1/8" = 1'-0"

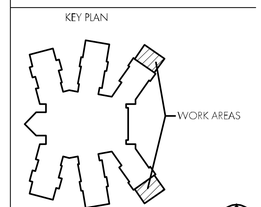
Elementary & Ruth Fox Middle Operable Partition Remodeling

NORTH BRANCH AREA SCHOOLS

North Branch, Michigan

REVISIONS/REVIEW	DATE
CONSTRUCTION DOCUMENTS	03/24/2022

KEY PLAN



NORTH

JOB NO. 2667.12C

SHEET TITLE
PARTIAL REFLECTED CEILING PLANS

SHEET NO. XXACLG
NBES-A2.1

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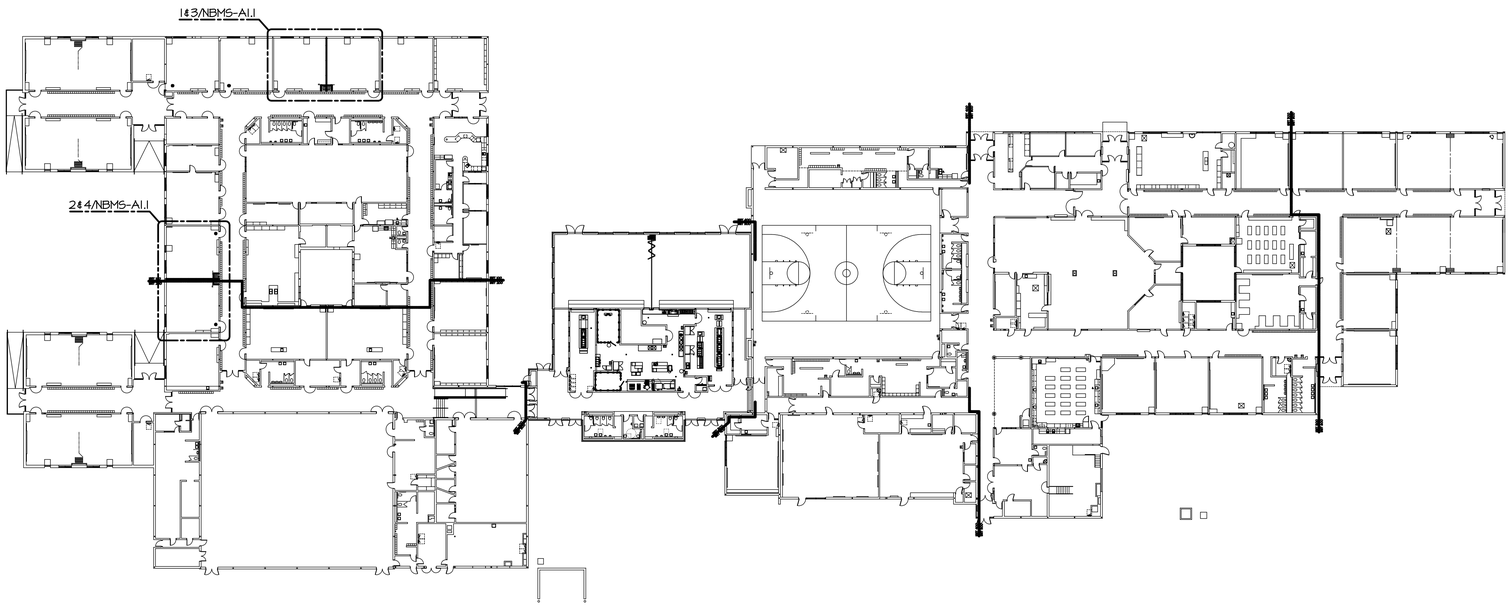

1 COMPOSITE FLOOR PLAN
SCALE: 1/32" = 1'-0"

REVISIONS/REVIEW	DATE
CONSTRUCTION DOCUMENTS	03/24/2022

KEY PLAN

NORTH

JOB NO. 2667.12C

SHEET TITLE
COMPOSITE FLOOR PLAN

SHEET NO.
NBMS-A0.1

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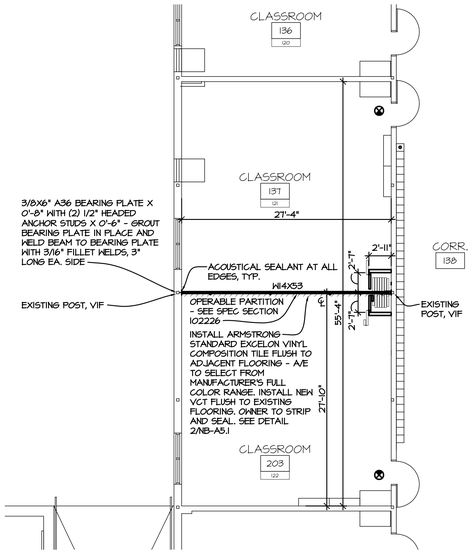
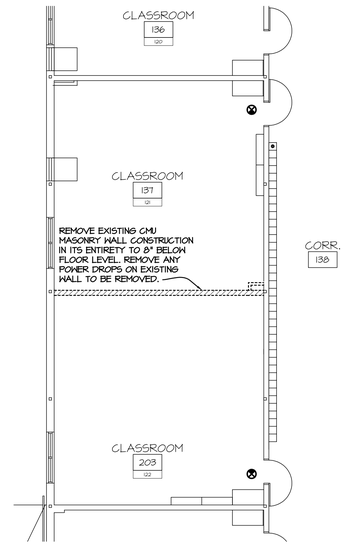
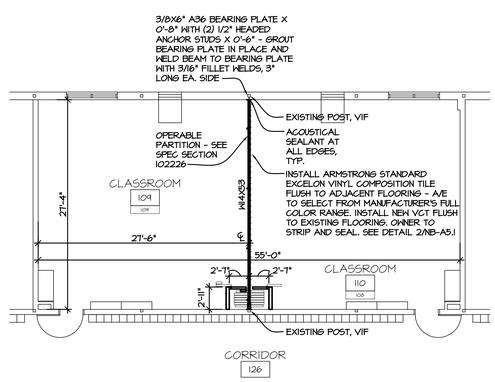


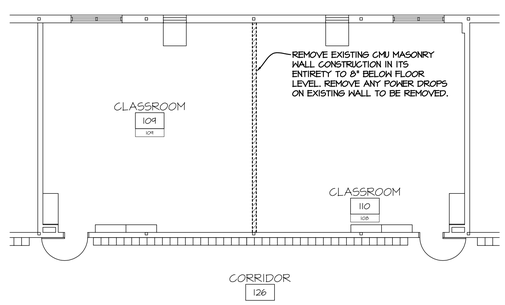
4 PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"



2 PARTIAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



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



1 PARTIAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

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Kalamazoo, MI 49007
P: 269.381.4880 | F:269.381.9110
www.kingscott.com

Elementary & Ruth Fox Middle Operable Partition Remodeling

NORTH BRANCH AREA SCHOOLS

North Branch, Michigan

REVISIONS/REVIEW	DATE
CONSTRUCTION DOCUMENTS	03/24/2022

KEY PLAN

JOB NO. 2667.12C

NORTH

SHEET TITLE

PARTIAL DEMOLITION & FLOOR PLANS

SHEET NO.

NBMS-A1.1

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259 East Michigan Ave., Suite 308
Kalamazoo, MI 49007
P: 269.381.4880 | F:269.381.9110
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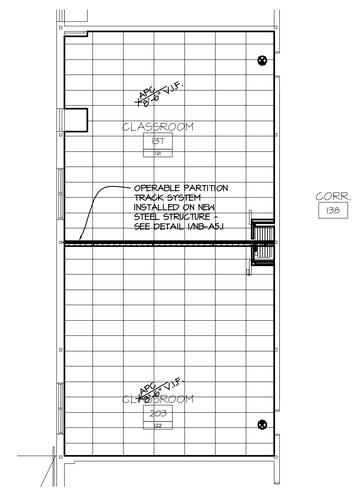
REFLECTED CEILING LEGEND

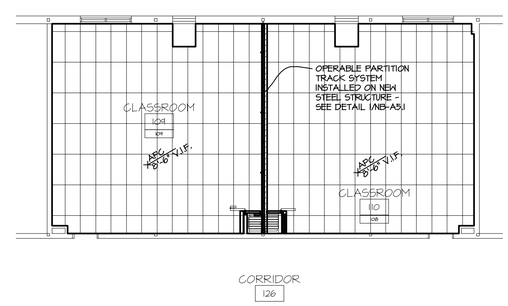
EXISTING ACOUSTICAL PANEL CEILING TO REMAIN - PORTION OF CEILING TILE AND GRID MAY NEED TO BE REMOVED FOR STEEL AND TRACK INSTALLATION.

ACC. 7'-0" TO 7'-6" V.I.F.

REFERS TO EXISTING CEILING HEIGHT TO REMAIN BASED ON EXISTING FINISHED FLOOR ELEVATIONS, V.I.F.



2 PARTIAL REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



1 PARTIAL REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

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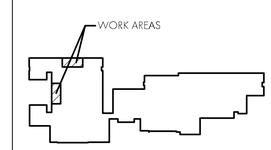
KEY PLAN



NORTH

JOB NO. 2667.12C

SHEET TITLE
PARTIAL REFLECTED CEILING PLANS

SHEET NO. XXACLG
NBMS-A2.1

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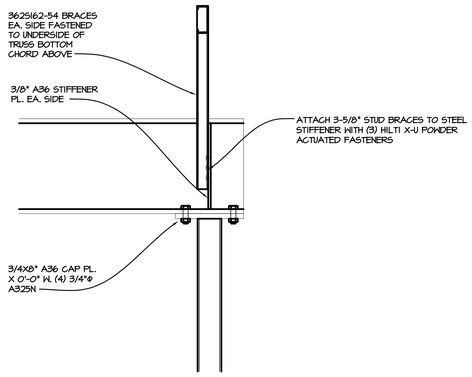
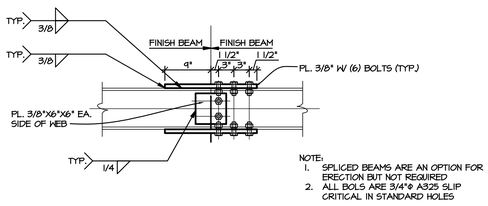
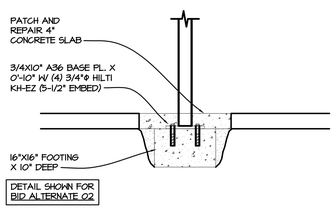


6 STRUCTURAL DETAIL
1"=1'-0"

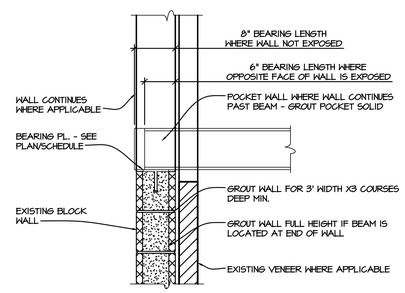


NOTE:
1. SPLICED BEAMS ARE AN OPTION FOR ERECTION BUT NOT REQUIRED
2. ALL BOLS ARE 3/4"Φ A325 SLIP CRITICAL IN STANDARD HOLES

5 STRUCTURAL DETAIL
1"=1'-0"

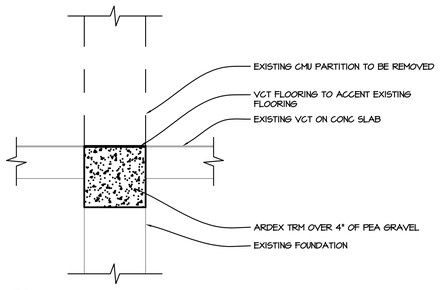


8 STRUCTURAL DETAIL
3/4"=1'-0"

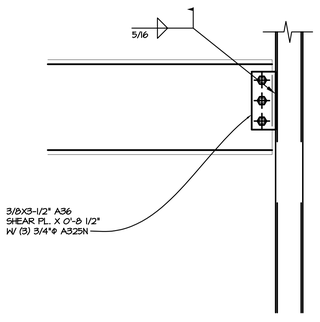


NOTE: DO NOT BEAR ON 4" VENEER. REMOVE AND REPLACE GENEER AS REQUIRED (WHERE APPLICABLE). IF EXISTING CMU IS IN POOR CONDITION, REMOVE AND REPLACE WITH NEW MASONRY.

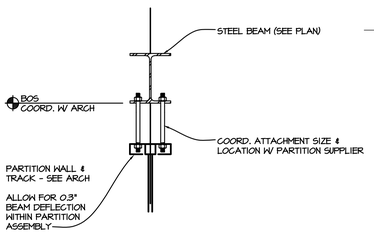
4 STRUCTURAL DETAIL
1"=1'-0"



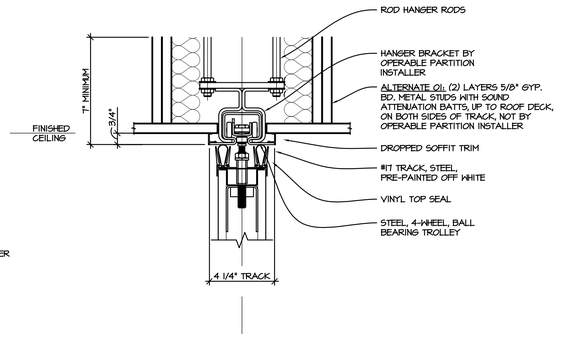
2 FLOOR INFILL DETAIL
1 1/2"=1'-0"



7 STRUCTURAL DETAIL
1"=1'-0"



3 STRUCTURAL DETAIL
1"=1'-0"



1 OPERABLE PARTITION TRACK DETAIL
3"=1'-0"

ENGINEERING DATA

Design soil bearing pressure	2000 psf
Design stresses	
Concrete	
Footings and Foundations	f'c = 3500 psi
Steel	
W shapes	Fy = 50000 psi
Rectangular HSS shapes (A500)	Fy = 46000 psi
Round HSS & Pipe shapes (A500)	Fy = 42000 psi
All other shapes	Fy = 36000 psi
Structural bolts	ASTM A325
Anchor bolts/Column anchor rods	ASTM F 1554 – Grade 36
Welding electrode	E70XX
Masonry	
CMU	f'm = 1500 psi
Grout	f'c = 2000 psi
Light gauge framing	As required by design
Up to and including 43 mils	Fy = 33000 psi
54 mils and thicker	Fy = 50000 psi
Structural design requirements	
Specific Design Loads	
Partition dead loads	
Partition (Modernfold STC 47 BOD)	7 psf
Structure	Self weight
Misc	3 psf
	10 psf Total
Design codes	
General building code	Michigan Building Code 2015
Concrete	ACI 318
Steel	AISC 360 – ASD
Masonry	TMS 402/ACI 530/ASCE 5

GENERAL FOUNDATION AND CONCRETE NOTES

1. Fill material shall be thoroughly compacted prior to placement of concrete. Fill under all slabs on grade shall be a minimum of 6" of well draining granular material shall be placed under all slabs on grade (UNO elsewhere in the construction documents).
2. Coordinate finish of all foundation work, including slabs on grade, with architectural and flooring supplier's requirements.
3. Refer to "General Structural Notes" for information regarding special inspections and installation of post installed anchors.

CONCRETE SPEC NOTES

1. All concrete shall be done in accordance with ACI 117, 211, 301, 306.1, 302, 315, 347 and 318 requirements, and as stated on contract documents.
2. Provide submittals for Product Data, Design Mixes, Steel Reinforcement Shop Drawings, Material Test Reports, and Material Certifications.
3. All exposed exterior concrete retaining and foundation walls shall be considered to have an Architecturally exposed class "A" finish, in accordance with ACI 347. Finish concrete walls as directed by Architect.
4. Testing of concrete shall be done for each 100 cu. yd. or fraction thereof, and shall include but is not limited to slump, air content concrete temperature, unit weight, and compressive strength. All testing shall follow ASTM standards.
5. Admixtures shall contain no more than 0.1 percent water–soluble chloride ions by mass of cementitious material. Do not use admixtures containing calcium chloride.
   a. Water–Reducing Admixture: ASTM C494, Type A
   b. High–Range, Water–Reducing Admixture: ASTM C494, Type F
   c. Water–Reducing and Accelerating Admixture: ASTM C494, Type E
   d. Water–Reducing and Retarding Admixture: ASTM C494, Type D
   e. Air–Entraining Admixture: ASTM C260
6. Repair and patch defective areas as directed by Architect.

GENERAL STRUCTURAL NOTES

1. All work shall be performed in accordance with the contract documents. In case of a conflict within the contract documents, the more stringent condition shall govern, unless directed otherwise by the engineer of record. Prior to implementation, any discrepancies shall be reported to the architect for clarification.
2. In the event that certain details of construction are not indicated or noted in the drawings, details for similar conditions that are indicated or noted shall be utilized, subject to the structural engineer's approval.
3. Openings and penetrations through structural elements, and items embedded in structural elements that are not indicated in the structural drawings shall be reviewed by the structural engineer prior to fabrication, erection and/or construction.
4. The structure has been designed for the in–service loads only. The methods, procedures and sequences of construction are the responsibility of the contractor. Contractor shall take all necessary precautions to maintain and ensure the integrity of the structure at all stages of construction. Contractor shall immediately notify the structural engineer of any condition which, in his opinion, might endanger the stability of the structure or cause distress in the structure.
5. All existing conditions and all related dimensions indicated in the contract documents shall be field verified prior to fabrication, erection and/or construction. Any condition that differs from that indicated in the contract documents shall be submitted to the architect for review prior to fabrication, erection and/or construction.
6. Where product substitutions are desired, they shall be submitted to engineer for review & approval a minimum of 2 weeks prior to planned installation.
7. Post installed anchors shall be the specific product indicated. Adhesive anchors shall be installed using products that are approved by the supplier for all temperature considerations. Installation shall be in accordance with suppliers published installation instructions.

STEEL NOTES

1. Structural steel shall be shop painted with min. 1.5 mil dry film thickness of a rust inhibiting primer.
2. Erector is to provide temporary bracing sufficient to hold frame in position until all construction necessary for building stability is complete.
3. Beam and lintel bearing on concrete and masonry wall shall be 8" unless otherwise shown. Provide beam bearing plates and wall anchors as required.
4. Camber beams upward the designated amount indicated on the structural drawings. Beams without a specified camber shall be oriented such that any incidental camber is upward.
5. All bolted moment, brace frame, and truss connections shall be done with slip critical bolts including the gravity shear connection. Slip critical joints shall be prepared with a Class A faying surface, and oversized holes in slip critical joints may be used at the fabricator's option.
6. Bolted connections not specified to be slip critical shall be tightened snug tight (all metal surfaces in contact).

STEEL SPEC NOTES

1. All steel shall be fabricated, detailed, and erected in accordance with AISC" Code of Standard Practice", ASTM A6 "Specification for General Requirements for Rolled Steel Plates, Shapes, Sheet Piling, and Bars for Structural Use", and Research Council on Structural Connections (RCSC) "Specifications for Structural Joints Using ASTM A325 or A490 Bolts."
2. Provide shop drawing submittal laying out and detailing structural steel, bolts, metal deck, and joists.
3. Inspect all steel in accordance with Michigan Building Code and AISC requirements. At a minimum visually inspect all fillet welds, non–destructively test all full penetration welds, inspect all bolted connections, etc.
4. All welding shall be done in accordance with AWS D1.1 "Structural Welding – Steel."

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DETAILS

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