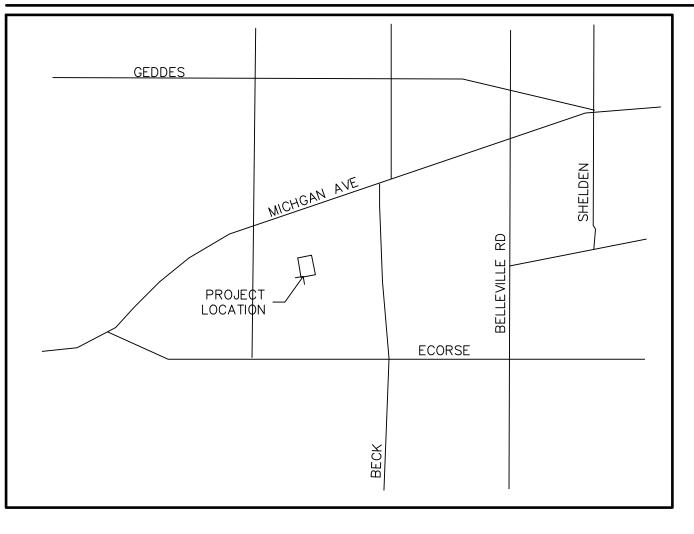
PRELIMINARY NOT TO BE USED FOR CONSTRUCTION



PROJECT NORTH

LOCATION MAP

OFFICE RENOVATIONS TO CONTRACTORS STEEL CO ONER DR., VAN BUREN TWP., MI 48111 48649 SCHOONER DR., VAN BUREN TWP., MI 48111

DIRECTORY	DRA
ARCHITECT HOPPE DESIGN 47032 McBRIDE	CIVIL DT
BELLEVILLE, MI 48111 734-218-2492	STRUC S001
APPLICANT AND OWNER CONTRACTORS STEEL CO 48649 SCHOONER DR	S002
VAN BUREN TWP., MI	ARCHI A001 A002 A101 A201
	A501 MECH
	M101
	PLUME P101
	ELECT E101

WING INDEX

TITLE SHEET

UCTURAL STRUCTURAL NOTES SPECIAL INSPECTIONS

- HITECTURAL SPECIFICATIONS
- CODE REVIEW
- PLANS
- SECTIONS, PLANS AND INTERIOR ELEVATIONS SCHEDULES
- HANICAL AND PLUMBING MECHANICAL PLANS
- **//BING** PLUMBING PLANS
- TRICAL
- LIGHTING AND POWER PLANS

ONER

48649 SC

N N

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OFFICE

REVISIONS

HOPPE DESIGN 7032 MGBRIDE, BELLEVILLE, MI 48111

PROJECT: 2212 8.30.22 DATE: DRAWN: WCH CHECKED: WCH





DESCRIPTION	MANUFACTURER	MODEL	\$TYLE	FINISH	COLOR	STANDARDS/ RESPONSIBILITY	COMMENT \$	SUBMITTAL
	T S			DIVISIO	ON 3	1		T
CONCRETE @ FOUN DATIONS, BASEMENT WALLS, EXTERIOR WALLS, PIERS, COLUMNS, STRUCTURAL FRAMIN G	3500 PSI AT 28 DAYS; A5 WATER/CEMENT RATIO; 1" MAX COAR SE AGGREGATE; 584 LBS/CY CEMENT CONTENT; 5-7% AIR ENTRAINMENT BY VOL; 3"SLUMP				N/A	ASTM C94 ACI 318, 301	AGGREGATE MAX. NOT TO EXCEED 1/4 OF SLAB THICKNESS; NP CALCIUM CHLORIDE AD DITIVES	×
CONCRETE @ DRIVEWAYS, GARAGE FLOORS, PORCHES, PATIOS, STAIRS, SLABS, SILLS, SIDEWALKS, CURBS	4000 PSI AT 28 DAYS; 45 WATER/CEMENT RATIO; 1" MAX COAR SE AGGREGATE; 564 LBS/CY CEMENT CONTENT; 5-7% AIR ENTRAINMENT BY VOL; 3"SLUMP				N/A	ASTM C94 ACI 318, 301	AGGREGATE MAX. NOT TO EXCEED 1/4 OF SLAB THICKNESS. FLOOR LEVEL TO BE 1/8" IN 10"MAX; NO CALCIUM CHLORIDE ADDITIVES. SAWCUT CONTROL JOINTS WITHIN 24 HOURS OF INSTALLATION OF CON CRETE	×
STEEL			GRADE 60		N/A	ACI, ASTM A615; CRSI		Х
	FLAT SHEETS; 6X6 W1.4 X W1.4 UN O				N/A	ASTM A185 54T	PROVIDE CHAIRS AND BOLSTERS; STAGGER OVERLAPS 2 FULL MESH	
CURING COMPOUND	SONNEBORN		FUGITIVE		N/A		TWO COATS ON SLABS. VERIFY COMPATIBILITY WITH FLOOR ING.	
CONCRETE SEALER: WATER BORNE	L&M CONSTRUCTION CHEMICALS	L&MCURE R/R2			N/A	ASTM-C-309 TYPE 1 AND 2		
	-			Concerne la				
		Į		DIVISIO				ļ
CONCRETE MASONRYUNITS	NORMAL WEIGHT	GRADE N	fm 2000 PSI	8×16		ASTM C-90, C-145; MJ.M.; ACI 530.1	EXPOSED CONCAVE TOOLED JOINTS; NATURAL GREY MORTAR. GROUT SOLID CMU CORES SCHEDULED TO RECEIVE REBAR AND ALL CORES BELOW GRADE	×
MORTAR: TYPE M	PORTLAND CEMENT				N/A	ASTM C-270, 2500 PSI	NO WELL OR LAKE WATER IN	х
BELOW GRADE MORTAR: TYPE S	PORTLAND CEMENT		fm 2000 PSI		BYOWNER	ASTM C-270	MOR TAR NO WELL OR LAKE WATER IN MOR TAR	х
MORTAR: TYPE N- BRICK	PORTLAND CEMENT		Fai		BYOWNER	ASTM C-270	NO WELL OR LAKE WATER IN MOR TAR	х
MASONRYGROUT				N/A	N/A	ASTM C-476, 3000 PSI	ROD OR VIBRATE; LOW LIFT GROUT	X
HORIZONTAL REINFORCING REBAR	DUR-O-WALL HECKMAN OR HOLMAN	LADDER TYPE 376 OR RB	GALV.		N/A	ASTM A-82	9 GAUGE WIRE; PLACE AT 16" OC VERTICALLY UN O	×
POSITIONERS VAPOR BARRIER	AND BARNARD			N/A	N/A		POLYETHYLENE, 8 MIL SLAB, 4 MIL WALLS, 2°-0° OVERLAP BENEATH SLABS	
				DIVISIO	DN 5	1		
STRUCTURAL STEEL		Fy= 50 KSI			N/A	ASTM A-36; A992	HOLES TO BE DRILLED NOT BURNED	х
CHANNELS, ANGLES, PLATES		Fy= 36 KSI			N/A	ASTM A36		X
BOLTS: STRUCTUR <mark>AL</mark>					N/A	ASTM A-325-N HIGH STRENGTH; F 1554	3/4"UNO; PROVIDE WASHERS BENEATH TURNED ELEMENTS	×
NU TS BOLT WASHERS					N/A N/A	ASTM A-563 ASTM F-436; A-36	HARDENED; HOT DIPPED	
STEEL LINTELS			G 60		BY OWNER		GALVAN IZED ALL EXTERIOR LINTELS TO BE GALVAN IZED AN D PAIN TED.	х
STRUCTURAL LEVELING GROUT	L&M CONSTRUCTION CHEMICALS	CRYSTEX 5000 PSI	NON- METALLIC, NON-	N∕A	N/A	ASTM C1107	INTERIOR LINTELS TO BE PAINTED. PRE-MIXED	×
STEEL STUDS: 12,	CLARK DIETRICH	Fy= 50 KSI	SHRINK CP 60		N/A	ASTM C955	16"OC UNO	
14, 16 GA STEEL STUDS: 18, 20	CLARK DIETRICH	Fy= 33 KSI	COATING CP 60		N/A	ASTM C955	16"OC UNO	-
GA. STEEL TRACS AND RUNNERS: 14, 16, 18,	CLARK DIETRICH	Fy= 33 KSI	COATING CP 60 COATING		N/A	ASTM C955	16"OC UNO	
20 GA. STEEL HAT CHANNEL: 25 GA	CLARK DIETRICH	1 1/4" FLANGE 3/4"			N/A	A 653		
Z FURRING CHAN NELS: 25 GA		DEPTH 1 1/4" FLANGE 2"			N/A	A 653		
PRIMER	TRUSCON	DEPTH 57 BAR OX	LEAD/ CHR OMAT		RED		NON-ASPHALTIC, RUST INHIBITING	x
			E FREE					
	1	1		DIVISIO	DN 6	1		1
					N/A.	AWPA UC 4A	80% RETENTION; AMONIA FREE	
			1			:		1
BELOW GRADE TREATED LIMBER; ABOVE GRADE					N/A	AWPA UC 3B	80% RETENTION; AMONIA FREE	
TREATED LIMBER; BELOW GRADE TREATED LIMBER; ABOVE GRADE TREATED LUMBER HARD WARE	SIMPSON	G-185			N/A N/A	AWPA UC 3B	80% RETENTION; AMONIA FREE HOT DIPPED GALVANIZED OR STAINLESS STEEL	×
BELOW GRADE TREATED LIMBER; ABOVE GRADE TREATED LUMBER	SIMPSON	G-185				AWPA LIC 3B	HOT DIPPED GALWINIZED OR	×
BELOW GRADE TREATED LIMBER; ABOVE GRADE TREATED LUMBER HARD WARE TREATED LUMBER IN	SIMPSON	G-185 SAE GRADE 2 OR 5					HOT DIPPED GALWNIZED OR STAINLESS STEEL	×
BELOW GRADE TREATED LIMBER; ABOVE GRADE TREATED LUMBER HARD WARE TREATED LUMBER IN CONTACT WITH BOLTS FOR WOOD CONSTRUCTION PLYWOOD SUB		SAE GRADE 2					HOT DIPPED GALWNIZED OR STAINLESS STEEL	×
BELOW GRADE TREATED LIMBER; ABOVE GRADE TREATED LUMBER HARD WARE TREATED LUMBER IN CONTACT WITH BOLTS FOR WOOD CONSTRUCTION PLOVOID SUB FLOORING WOOD		SAE GRADE 2 OR 5			N/A	AWPA C2	HOT DIPPED GAL WAIZED OR STAINLESS STEEL 80% RETENTION; AMONIA FREE ACA FOR DOUGLAS FIR OR C CA FOR	×
BELOW GRADE TREATED LIMBER; ABOVE GRADE TREATED LUMBER HARD WARE TREATED LUMBER IN CONTACT WITH BOLTS FOR WOOD CONSTRUCTION PLYWOOD SUB FLOOR ING		SAE GRADE 2 OR 5		N/A	N/A	AWPA C2	HOT DIPPED GAL WNIZED OR STAINLESS STEEL 80% RETENTION; AMONIA FREE	×

ARC SPOT WELDS (PUDDLE WELDS) TO SUPPORTS SHALL HAVE A DIAMETER OF 5%" MINIMUM OR AN ELONGATED WELD OF 3%" MINIMUM WIDTH IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION TO ACCOUNT FOR ALL FORCES, AND 3/4" MINIMUM LENGTH. WELD METAL SHALL PENETRATE ALL LAYERS OF DECK MATERIAL AT END LAPS AND HAVE ADEQUATE FUSION TO THE INCLUDING BUT NOT LIMITED TO FORCES FROM GRAVITY, EARTH, WIND AND UNBALANCED FORCES DUE TO CONSTRUCTION SEQUENCES. SUPPORTING MEMBERS. WELDING SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STANDARD "SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES" AWS D1.3. UNITS SHALL BE FASTENED TO THE STEEL SUPPORTS AT THE END OF THE UNITS AND AT INTERMEDIATE SUPPORTS AND SUPPORTS AT THE SIDE BOUNDARIES BY ${f i}$ " DIAMETER PUDDLE WELDS AT 12" OC. SHEAR STUDS WELDED THROUGH DECK I PLACE OF $\frac{3}{4}$ DIAMETER PUDDLE WELDS. THE SIDE LAPS OF ADJACENT UNITS SHALL BE FASTENED BETWEEN SUPPORTS BY BUTTON PUNCHING AT 24" OC UNO. STRUCTURAL STEEL UNLESS OTHERWISE NOTED, ALL BEAMS AND LINTELS BEARING ON MASONRY SHALL HAVE A MINIMUM BEARING LENGTH OF 7 1/2" AND SHALL HAVE A MINIMUM OF TWO BLOCK COURSES AT 32" LONG OF SOLID MASONRY UNDER THE BEARING SURFACE. WHERE STEEL CONNECTIONS ARE NOT FULLY DETAILED ON THE DESIGN DRAWINGS (WITH ALL REQUIREMENTS FOR BOLTS, PLATES, WELDS, DIMENSIONS, ETC SHOWN) CONNECTIONS SHALL BE DESIGNED BY THE STEEL CONTRACTOR UNDER THE SUPERVISION OF A P.E. LICENSED IN THE STATE THAT HAS JURISDICTION OVER THE PROJECT. WHERE TYPICAL OR INCOMPLETE CONNECTIONS ARE SHOWN ON THE DESIGN DRAWINGS, THOSE DETAILS SHALL BE USED AS A BASIS FOR CONNECTION DESIGN TO BE COMPLETED BY THE CONTRACTOR. ALTERNATE CONNECTIONS DESIGNED BY THE STEEL CONTRACTOR WILL BE PROVIDED IF REQUIRED DESIGN FORCES CANNOT BE ACHIEVED BY THE TYPICAL OR EXAMPLE CONNECTION, OR IF AUTHORIZATION TO ALTER THE DETAIL IS PROVIDED BY THE DESIGN ENGINEER. WHERE CONNECTION FORCES ARE INDICATED ON THE DRAWINGS, PROVIDE CONNECTIONS DESIGNED TO RESIST THE FORCE SHOWN. WHERE CONNECTION FORCES ARE NOT INDICATED ON THE DRAWINGS, PROVIDE CONNECTIONS DESIGNED TO RESIST FORCES AS FOLLOWS: FOR SHEAR CONNECTIONS IN NON-COMPOSITE MEMBERS, DESIGN CONNECTIONS TO RESIST 50% OF THE TOTAL ALLOWABLE UNIFORM LOAD SHOWN IN THE TABLES IN PART 3 OF THE AISC MANUAL OF STEEL CONSTRUCTION. FOR SHEAR CONNECTIONS IN COMPOSITE MEMBERS, DESIGN CONNECTIONS TO RESIST 75% OF THE TOTAL ALLOWABLE UNIFORM LOAD SHOWN IN PLUMBING AND ELECTRICAL CONTRACTORS ARE TO PROVIDE ALL REQUIRED UNDERSLAB WORK PRIOR TO POURING THE FLOOR SLAB. THE TABLES IN PART 3 OF THE AISC MANUAL OF STEEL CONSTRUCTION. FOR MOMENT CONNECTIONS, DESIGN CONNECTIONS TO RESIST 100% OF MOMENT CAPACITY OF THE MEMBER. ALL FULLY TENSIONED A490 BOLTS SHALL HAVE WASHERS BENEATH BOTH NUT AND HEAD. PROVIDE TEMPLATES TO LOCATE ANCHOR BOLTS AND BASE PLATES. SHOP AND FIELD CONNECTIONS SHALL BE MADE BY WELDING OR HIGH STRENGTH BOLTING. BOLTED CONNECTIONS SHALL CONFORM TO ASTM A325-X USING LOAD INDICATOR WASHERS (LIW) OR LOAD INDICATOR BOLTS (LIB). BEAM CONNECTIONS SHALL PROVIDE SHEAR CAPACITY TO SUPPORT A REACTION R EQUAL TO HALF THE SHEAR CAPACITY OF BEAM. USE 칼 DIA BOLTS, E70XX 볼 WELD AND 흄" ANGLE THICKNESS. ALL WELDING SHALL BE PERFORMED USING THE ELECTRIC ARC METHOD IN ACCORDANCE WITH THE LATEST REVISION OF THE AWS D1.1. E70XX ELECTRODES CONFORMING TO AWS A5.1 OR A5.5 SHALL BE USED FOR SHIELDED METAL ARC METHOD AND FX7-ECXX ELECTRODE CONFORMING TO AWS F5.17 FOR SUBMERGED ARC METHOD. FOOTING BOTTOM ALL WELDS SHALL BE PROVIDED AS SHOWN IN THE STRUCTURAL DETAILS UNLESS THICKER WELD IS REQUIRED DUE TO MATERIAL THICKNESSES. WHERE WELD IN NOT DETAILED, WELD SHALL BE DESIGNED BY A LICENSED ENGINEER RETAINED BY THE CONTRACTOR TO MEET CONNECTION COLUMNS, BEAMS AND FORMED SURFACES IN DIRECT CONTACT WITH SOIL OR EXPOSED TO THE WEATHER, EXCEPT SLABS. DECK SLAB TO TOP CAPACITY REQUIREMENTS LISTED ABOVE. WELD SIZES SHALL BE INCREASED AS NEEDED TO MEET THE FOLLOWING MINIMUM WELD SIZE 1 J" DECK SLAB TO BOTTOM REQUIREMENTS BASED ON THE SMALLER MATERIAL THICKNESS OF THE PIECES OF STEEL BEING WELDED TOGETHER: INTERIOR FACES OF WALLS AND SLABS NOT EXPOSED TO WEATHER ³[™] INTERIOR SLABS MATERIAL THICKNESS MIM FILLET WELD SIZE (PROVIDE LARGER WELD IF REQUIRED FOR STRESS) ¼" AND UNDER OVER ¼" TO ½" OVER ½" TO ¾" over ¾" IF PENETRATIONS THROUGH WEBS OF STEEL BEAMS WILL BE REQUIRED, CONTRACTOR TO NOTIFY ENGINEER OF RECORD. SEE ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS AND NON-STRUCTURAL STEEL. STEEL JOISTS PROVIDE AND INSTALL BRIDGING IN ACCORDANCE WITH STEEL JOISTS INSTITUTE STANDARDS. ALL ENDS OF BRIDGING LINES TERMINATING AT MASONRY WALLS SHALL BE ANCHORED THERETO IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE BRIDGING DOES NOT TERMINATE AT A MASONRY WALL, THE FIRST AND SECOND BAYS FROM THE END OF THE BRIDGING IS TO BE DIAGONAL X-BRIDGING. MANUFACTURER TO PROVIDE ADDITIONAL BRIDGING AS REQUIRED TO SATISFY SJI UPLIFT REQUIREMENTS. WHERE STEEL JOISTS SUPPORT MOVEABLE PARTITIONS, JOIST MANUFACTURER SHALL DESIGN JOIST FOR A MAXIMUM LIVE/SNOW LOAD DEFLECTION OF THE SMALLER OF $\frac{1}{2}$ " AND L/360. JOIST MANUFACTURER SHALL LIMIT JOIST DEFLECTION DUE TO LIVE/SNOW LOAD TO L/360. THE ENDS OF STEEL JOIST SHALL BEAR A MINIMUM DISTANCE OF 2½ INCHES OVER STEEL SUPPORTS AND 4 INCHES OVER ALL OTHER SUPPORTS. THE ENDS SHALL BE FASTENED BY BOLTING AND OR WELDING. ERECTION OF JOISTS AND JOIST BRIDCING SHALL CONFORM TO ALL REQUIREMENTS OF OSHA AND JOIST MANUFACTURER. WOOD FRAMING ALL LUMBER IN CONTACT WITH MASONRY OR STEEL TO BE PRESERVATIVE TREATED. ALL FLUSH FRAMED CONNECTIONS ARE TO MADE USING JOIST HANGERS DESIGNED FOR THE SPECIFIC CONDITION UNLESS OTHER CONNECTIONS ARE PROVIDED. SHOP DRAWINGS SHALL BE PROVIDED FOR ALL ENGINEERED WOOD MATERIAL INDICATING PRODUCTS, DETAILS, CONNECTIONS AND ACCESSORIES AS REQUIRED BY THE MANUFACTURE TO MEET PROJECT LOADING REQUIREMENTS. OBSERVE ALL CODE REQUIREMENTS FOR BRIDGING, BORING, AND NOTCHING OF STUDS AND JOISTS. FOR BRIDGING, BORING AND NOTCHING OF ENGINEERED WOOD PRODUCTS OBSERVE ALL MANUFACTURER REQUIREMENTS. BRIDGING SHALL BE PROVIDED FOR ALL ROOF RAFTERS. ALL ROOF RAFTERS ARE TO BE 24" ON CENTER UNLESS OTHERWISE NOTED.

ROOF DESIGN NOTES:

PRESSURE FROM THE DESIGNED WIND SPEEDS.

THE SHEAR WALLS AND SHALL BE DESIGNED FOR A TOTAL IMPOSED WIND LOAD ON BUILDING INCLUDING WINDWARD AND LEEWARD

THE STRUCTURAL INTEGRITY OF THE BUILDING SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION ACCORDING TO PLANS AND SPECIFICATIONS. STRUCTURAL MEMBERS ARE NOT SELF BRACING AND SHALL BE SHORED AND/OR BRACED BY THE CONTRACTOR AS NECESSARY FIELD MEASURE AND VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE FABRICATION. FOUNDATIONS ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL, HAVING A MINIMUM SAFE BEARING CAPACITY. THE TESTING AND INSPECTION AGENCY SHALL VERIFY SOIL BEARING CAPACITY AT EACH FOOTING PRIOR TO INSTALLATION OF FOOTING. NOTIFY ENGINEER OF ANY VARIATION FROM ANTICIPATED BEARING CAPACITY FOR APPROPRIATE RE-DESIGN OR LOWERING OF FOOTING. THE BOTTOMS OF ALL EXTERIOR FOOTINGS SHALL BE 3'-6" MINIMUM BELOW FINISHED GRADE. IF THE BUILDING WILL BE UNDER CONSTRUCTION DURING FREEZING WEATHER, ALL INTERIOR FOUNDATIONS SHALL BE DEPRESSED 3'-6" BELOW CONSTRUCTION GRADE FOR FROST PROTECTION. IF SUCH ADDITIONAL FOOTING DEPTH WILL CAUSE UNDERMINING OF ADJACENT EXISTING FOOTINGS OR STRUCTURES, PROVIDE APPROPRIATE SHORING, BRACING OR UNDERPINNING AS REQUIRED OR LEAVE FOOTING ELEVATION AS DESIGNED AND PROVIDE CONTINUED PROTECTION AND HEAT TO PREVENT FORMATION OF FROST BELOW FOOTING AND ADJACENT TO FOOTING. OF ALL SHORING, BRACING, AND DEWATERING THAT IS REQUIRED TO PROPERLY CONSTRUCT THE FOUNDATIONS AND PROTECT ADJACENT STRUCTURES, PAVEMENTS AND UTILITIES. PRETREAT EXCAVATIONS WITH TERMITICIDE AND INSPECT EXCAVATIONS PRIOR TO POURING CONCRETE. TEMPORARY BRACING MUST BE PROVIDED TO RESIST ALL LATERAL FORCES UNTIL STRUCTURAL SYSTEM IS SELF SUPPORTING. CONCRETE SLABS INSPECT ALL REINFORCING BEFORE POURING CONCRETE. SLOPE SLABS TO FLOOR DRAINS. VERIFY DEPRESSIONS AND FLOOR FINISHES. PROVIDE 🖥 CONCRETE COVER MINIMUM FROM TOP OF SLAB TO SLAB REINFORCING AND LAP ALL STEEL FABRIC SPLICES 6" MIN. REINFORCING SHALL BE CENTERED IN SLAB. GRANULAR BASE TO BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY UNDER ALL SLABS ON GRADE. REINFORCING MINIMUM CONCRETE COVERING SHALL BE: MASONRY WALLS ARE TO BE ADEQUATELY BRACED DURING CONSTRUCTION. SEE "STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION" BY THE COUNCIL FOR MASONRY WALL BRACING AND ALSO NCMA TEK 304B "BRACING CONCRETE MASONRY WALLS DURING CONSTRUCTION" FOR RECOMMENDATIONS REGARDING BRACING. PLACE LADDER TYPE HORIZONTAL JOINT REINFORCING WITH PREFORMED LAPPED CORNER REINFORCING. THE DISCONTINUOUS ENDS OF ALL MASONRY WALLS SHALL BE SOLIDLY GROUTED A MINIMUM OF 8" OR ONE BLOCK CELL AND REINFORCED FOR THEIR FULL HEIGHT WITH ONE #5 BAR UNO. AT GROUTED CELLS LIFTS OF GROUT SHALL BE KEYED 4" INTO THE COURSE OF MASONRY BELOW. ALL CMU BOND BEAMS TO HAVE (2) #4 BARS CONTINUOUS. PROVIDE (2) #4 L BARS AT EVERY CORNER LAPPED 3'-O" WITH CONTINUOUS. BARS. VERTICAL CONTROL JOINTS IN CMU WALLS TO HAVE A MINIMUM 3/3" GAP AND SHALL BE LOCATED BY THE ARCHITECT, BUT NOT MOVE THAN 20**'**-0" OC. BRICK TIES SHALL BE GALVANIZED ADJUSTABLE 2-PIECE WIRE TIES OF NOT LESS THAN 9 GAGE AND SHALL BE SPACED AT 16" OC VERTICALLY AND HORIZONTALLY. WHERE MASONRY MEETS STRUCTURAL MEMBERS SUBJECT TO VERTICAL DEFLECTION, PROVIDE ALLOWANCE FOR VERITICAL MOVEMENT OF L/240 BOND BEAM REINFORCING TO BE CONTINUOUS ACROSS CONTROL JOINTS. PROVIDE A 24" LAP AT FOUNDATION DOWELS. AIR TEMPERATURE AT TIME OF MASONRY INSTALLATION SHALL BE 40<T<90 DEGREES F. METAL DECK UNLESS OTHERWISE NOTED. ALL METAL DECK HAS BEEN DESIGNED TO BE CONTINUOUS OVER 3 SPANS MINIMUM AND SHALL BEAR AT LEAST 2" DECK AS REQUIRED TO SUPPORT ALL THE APPLICABLE LOADS. CONTRACTOR SHALL SUBMIT ALTERNATE FOR APPROVAL. PROVIDE REINFORCING CHANNELS, STANDARD CLOSURES, CANT STRIPS, SUMP PANS, FINISH STRIPS, POUR STOPS, AND OTHER ACCESSORIES AS REQUIRED FOR PROPERLY FINISHED JOB, EVEN IF NOT SPECIFICALLY SHOWN ON THE DRAWINGS. PROVIDE BEARING ANGLES WELDED TO COLUMNS TO SUPPORT METAL DECKS AS REQUIRED.

UNTIL STABILIZED BY VIRTUE OF COMPLETED CONNECTIONS. THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS AND ADJACENT STRUCTURES, PAVEMENTS, AND UTILITIES. ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION, MAINTENANCE AND REMOVAL OF STRUCTURAL MEMBER. ON STEEL SUPPORTS. FOR ONE OR TWO SPAN CONDITIONS, THE CONTRACTOR SHALL PROVIDE SHORING AS REQUIRED OR FURNISH HIGHER GAGE

FASTEN STEEL DECK UNITS TO STRUCTURAL SUPPORTS USING HEX WASHER HEAD TEK SCREWS OR ARC SPOT WELDS ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND IN CONFORMANCE WITH THE STEEL DECK INSTITUTES SPECIFICATION SECTION 4.4.

METAL STUD SIZING

METAL STUD 3	SIZING	
ALLOWABLE HEIGHTS STUD SIZE $3 \frac{1}{2}$ " OR 4" X 20 GA $3 \frac{1}{2}$ " OR 4" X 18 GA $3 \frac{1}{2}$ " OR 4" X 16 GA	18'-2"	
5 $\frac{1}{2}$ " OR 6" X 20 GA 5 $\frac{1}{2}$ " OR 6" X 18 GA 5 $\frac{1}{2}$ " OR 6" X 16 GA	23'-11" 27'-2" 30'-0"	
	16" OC STUD SPAC CTION, NON-STRUCT INTS OR 8'-0" MAX	NG, 5 PSF LATERAL URAL APPLICATION.
STUD SIZE 3 ½" OR 4" X 20 GA 3 ½" OR 4" X 18 GA 3 ½" OR 4" X 16 GA	12'-0"	12" OC/33 KSI*** 12'-3" 13'-3" 14'-3"
$5 \frac{1}{2}^{"} OR 6" X 20 GA 5 \frac{1}{2}^{"} OR 6" X 18 GA 5 \frac{1}{2}^{"} OR 6" X 16 GA 5 \frac{1}{2}^{"} OR 6" X 12 GA $	18'-0"	18'-0" 19'-8" 21'-3" 28'-0"
8" X 20 GA 8" X 18 GA 8" X 16 GA 8" X 12 GA		22'-8" 24'-9" 26'-8" 31'-8"
STUD SIZE 3 ½" OR 4" X 20 GA 3 ½" OR 4" X 18 GA 3 ½" OR 4" X 16 GA		12" OC/50 KSI*** 13'-6" 14'-8" 15'-8"
5 ½" OR 6" X 20 GA 5 ½" OR 6" X 18 GA 5 ½" OR 6" X 16 GA 5 ½" OR 6" X 12 GA	18'-0" 19'-8" 21'-3" 28'-0"	20'-0" 21'-8" 23'-4" 31'-0"
8"X 20 GA 8"X 18 GA	22'-6" 24'-9"	25'-0" 27'-3"

POINTS OR 8'-0" MAX.

26'-8"

31'–8"

*** HEIGHTS BASED ON 20 PSF LATERAL LOAD, L/240

DEFLECTION, STRUCTURAL APPLICATION. BRIDGING AT $\frac{1}{3}$

8"X 16 GA

8"X 12 GA

MASONRY LINTEL SCHEDULE

PROVIDE 8" MIN. BEARING EA. END WITH (3) COURSES BENEATH BEARING GROUTED SOLID

ALL LINTELS TO BE 3/8" MIN. AND EXTERIOR LINTELS ARE TO BE GALVANIZED AND PAINTED

ATERAL CATION.

HORIZONTAL LEGS 4" MASONRY: ONE 3 1/2" 6" MASONRY: TWO 2 1/2' 8" MASONRY: TWO 3 1/2" 10" MASONRY: TWO 4" 12" MASONRY: TWO 5"

VERTICAL LEGS SPANS LESS THAN 4'-0'': 3 1/2'' MIN. SPANS 4'-0" TO 6'-8": 5" MIN. SPANS OVER 6'-8" SEE PLANS OR CONTACT ARCHITECT FOR SIZING

NOTES: PROVIDE BRICK SOLIDS AT ALL SILL ENDS. RETURN BRICK AT WINDOWS ADJACENT TO SIDING ALL BRICK LINTELS TO BE GALVANIZED.

29'-4"

34'–9"



ΤО	TH	ΗE	STE	EL		
МА	Y	BE	US	SED	IN	
	•					

A. VERTICAL WEB MEMBERS FOR ALL GABLE END TRUSSES SHALL BE DESIGNED TO RESIST A HORIZONTAL WIND LOAD RESULTING FROM THE DESIGNED WIND SPEED WITHOUT EXCEEDING THE DEFLECTION LIMIT OF L/600 OF THEIR RESPECTIVE VERTICAL SPANS. BRIDGING FOR BOTTOM CHORDS SHALL BE DESIGNED TO DISTRIBUTE THE HORIZONTAL WIND LOAD PROPOSED ON THE COMPLETE BUILDING TO

	C	DESIGN LOADS	
TABLE 1604.5		OCCUPANCY CATEGORY	
IN BEE 1004.0			
		CEILING DEAD LOAD (PSF)	25.00
		CEILING LIVE LOAD (PSF)	125.00
		TOTAL UNFACTORED DESIGN CEILING	120.00
		LOAD (PSF)	
		25 + 125 =	150
		SOILS	150
		SELF SUPPORTING FOUNDATION	3000
		(MINIMUM ALLOWABLE BEARING	3000
		PRESSURE IN PSF)	
		SEISMIC RISK CATEGORY	
TABLE 1604.5			
	e		1.00
FIGURE 1613.3.1(1)	~	MAPPED TWO SECOND SPECTRAL	1 ~
	S _S	RESPONSE ACCELERATION	.1g
FIGURE 1613.3.1(2)		MAPPED ONE SECOND SPECTRAL	
	S ₁	RESPONSE ACCELERATION	.04g
SECTION 1613.3.2		SITE CLASS	D
SECTION 1613.3.4		SHORT PERIOD DESIGN SPECTRAL	
	S_{DS}	RESPONSE ACCELERATION	0.1
SECTION 1613.3.4		ONE SECOND DESIGN SPECTRAL	
	S_{D1}	RESPONSE ACCELERATION	0.08
SECTION 1613.3.3,			
TABLE 1613.3.3(2)	F_A		1.6
SECTION 1613.3.3,			
TABLE 1613.3.3(2)	F_{V}		2.4
	S _{MS}	F _A S _S	0.16
	S _{M1}	F _V S ₁	0.12
SECTION 1613.3.1	SDC	SEISMIC DESIGN CATEGORY	A
		NO SPECIAL ANALYSIS REQUIRED FOR	
		SEISMIC DESIGN CATEGORY A	
		ALL LOADS ARE SUBJECT TO	
		MODIFICATION PER REQUIREMENTS	
		OF ASCE-7	
	F	KEEERENICES	
	F		
	F		2010
	F	ASCE-7	2010
	F	ASCE-7 ACI 301	
	F	ASCE-7 ACI 301 ACI 318 BUILDING CODE	2010
	F	ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED	
	F	ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE	
	F	ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66	2010
	F	ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION	
	F	ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF	2010
CONCRETE	F	ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE"	2010
CONCRETE	F	ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE" ACI 530/ASCE 5	2010
CONCRETE		ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE" ACI 530/ASCE 5 ACI 530.1/ASCE 6	2010 2011 2013
CONCRETE		ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE" ACI 530/ASCE 5 ACI 530.1/ASCE 6 NCMA TEK 3-4B " BRACING CONCRETE	2010
CONCRETE		ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE" ACI 530/ASCE 5 ACI 530.1/ASCE 6 NCMA TEK 3-4B " BRACING CONCRETE MASONRY WALLS DURING	2010 2011 2013
MASONRY		ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE" ACI 530/ASCE 5 ACI 530.1/ASCE 6 NCMA TEK 3-4B " BRACING CONCRETE MASONRY WALLS DURING CONSTRUCTION"	2010 2011 2013
MASONRY		ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE" ACI 530/ASCE 5 ACI 530.1/ASCE 6 NCMA TEK 3-4B " BRACING CONCRETE MASONRY WALLS DURING CONSTRUCTION" BIA "TECHNICAL NOTES ON BRICK	2010 2011 2013
MASONRY		ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE" ACI 530/ASCE 5 ACI 530.1/ASCE 6 NCMA TEK 3-4B " BRACING CONCRETE MASONRY WALLS DURING CONSTRUCTION" BIA "TECHNICAL NOTES ON BRICK CONSTRUCTION"	2010 2011 2013 2005
MASONRY		ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE" ACI 530/ASCE 5 ACI 530.1/ASCE 6 NCMA TEK 3-4B " BRACING CONCRETE MASONRY WALLS DURING CONSTRUCTION" BIA "TECHNICAL NOTES ON BRICK CONSTRUCTION" AISC "SPECIFICATION FOR	2010 2011 2013 2005 13TH
CONCRETE MASONRY BRICK STEEL		ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE" ACI 530/ASCE 5 ACI 530.1/ASCE 6 NCMA TEK 3-4B " BRACING CONCRETE MASONRY WALLS DURING CONSTRUCTION" BIA "TECHNICAL NOTES ON BRICK CONSTRUCTION" AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"	2010 2011 2013 2005 13TH EDITIOI
CONCRETE MASONRY BRICK STEEL		ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE" ACI 530/ASCE 5 ACI 530.1/ASCE 6 NCMA TEK 3-4B " BRACING CONCRETE MASONRY WALLS DURING CONSTRUCTION" BIA "TECHNICAL NOTES ON BRICK CONSTRUCTION" AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AMERICAN WELDING SOCIETY AWS	2010 2011 2013 2005 13TH
CONCRETE MASONRY BRICK STEEL WELDING		ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE" ACI 530/ASCE 5 ACI 530.1/ASCE 6 NCMA TEK 3-4B " BRACING CONCRETE MASONRY WALLS DURING CONSTRUCTION" BIA "TECHNICAL NOTES ON BRICK CONSTRUCTION" BIA "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AMERICAN WELDING SOCIETY AWS D1.1/D1.1M	2010 2011 2013 2005 13TH EDITIOI 2015
CONCRETE MASONRY BRICK STEEL WELDING		ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE" ACI 530/ASCE 5 ACI 530.1/ASCE 6 NCMA TEK 3-4B " BRACING CONCRETE MASONRY WALLS DURING CONSTRUCTION" BIA "TECHNICAL NOTES ON BRICK CONSTRUCTION" BIA "TECHNICAL NOTES ON BRICK CONSTRUCTION" ASC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AMERICAN WELDING SOCIETY AWS D1.1/D1.1M STEEL JOISTS INSTITUTE "STANDARD	2010 2011 2013 2005 13TH EDITIOI
CONCRETE MASONRY BRICK STEEL WELDING STEEL JOISTS		ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE" ACI 530/ASCE 5 ACI 530/ASCE 5 ACI 530.1/ASCE 6 NCMA TEK 3-4B " BRACING CONCRETE MASONRY WALLS DURING CONSTRUCTION" BIA "TECHNICAL NOTES ON BRICK CONSTRUCTION" BIA "TECHNICAL NOTES ON BRICK CONSTRUCTION" AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AMERICAN WELDING SOCIETY AWS D1.1/D1.1M STEEL JOISTS INSTITUTE "STANDARD SPECIFICATION"	2010 2011 2013 2005 2005 13TH EDITIO 2015 2015
STRUCTURAL LOADS CONCRETE MASONRY BRICK STEEL WELDING STEEL JOISTS METAL DECK		ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE" ACI 530/ASCE 5 ACI 530.1/ASCE 6 NCMA TEK 3-4B " BRACING CONCRETE MASONRY WALLS DURING CONSTRUCTION" BIA "TECHNICAL NOTES ON BRICK CONSTRUCTION" BIA "TECHNICAL NOTES ON BRICK CONSTRUCTION" AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AMERICAN WELDING SOCIETY AWS D1.1/D1.1M STEEL JOISTS INSTITUTE "STANDARD SPECIFICATION"	2010 2011 2013 2005 2005 13TH EDITION 2015 2015 2015
CONCRETE MASONRY BRICK STEEL WELDING STEEL JOISTS METAL DECK		ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE" ACI 530/ASCE 5 ACI 530.1/ASCE 6 NCMA TEK 3-4B " BRACING CONCRETE MASONRY WALLS DURING CONSTRUCTION" BIA "TECHNICAL NOTES ON BRICK CONSTRUCTION" BIA "TECHNICAL NOTES ON BRICK CONSTRUCTION" AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AMERICAN WELDING SOCIETY AWS D1.1/D1.1M STEEL JOISTS INSTITUTE "STANDARD SPECIFICATION" STEEK DECK INSTITUTE "NATIONAL DESIGN SPECIFICATION	2010 2011 2013 2005 2005 13TH EDITION 2015 2015
CONCRETE MASONRY BRICK STEEL WELDING STEEL JOISTS METAL DECK		ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE" ACI 530/ASCE 5 ACI 530.1/ASCE 6 NCMA TEK 3-4B " BRACING CONCRETE MASONRY WALLS DURING CONSTRUCTION" BIA "TECHNICAL NOTES ON BRICK CONSTRUCTION" BIA "TECHNICAL NOTES ON BRICK CONSTRUCTION" AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AMERICAN WELDING SOCIETY AWS D1.1/D1.1M STEEL JOISTS INSTITUTE "STANDARD SPECIFICATION"	2010 2011 2013 2005 2005 13TH EDITION 2015 2015 2015
CONCRETE MASONRY BRICK STEEL WELDING STEEL JOISTS		ASCE-7 ACI 301 ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI SP 66 PORTLAND CEMENT ASSOCIATION "DESIGN AND CONTROL OF CONCRETE MIXTURE" ACI 530/ASCE 5 ACI 530.1/ASCE 6 NCMA TEK 3-4B " BRACING CONCRETE MASONRY WALLS DURING CONSTRUCTION" BIA "TECHNICAL NOTES ON BRICK CONSTRUCTION" BIA "TECHNICAL NOTES ON BRICK CONSTRUCTION" AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AMERICAN WELDING SOCIETY AWS D1.1/D1.1M STEEL JOISTS INSTITUTE "STANDARD SPECIFICATION" STEEK DECK INSTITUTE "NATIONAL DESIGN SPECIFICATION	2010 2011 2013 2005 2005 13TH EDITION 2015 2015 2015

I OADS AND REERENCES



REVISIONS

PROJECT: 2212 DATE: 8.30.22 DRAWN: WCH CHECKED: WCH





STATEMENT OF SPECIAL INSPECTIONS

STATEMENT OF SPECIA					3) SHEAR REINFORCEMENT 4) OTHER REINFORCING	X 	 X			
STEEL CONSTRUCTION (TABLE	CONT-		REFERENCE CRITE REFERENCED STANDARD	IBC	STEEL 6. INSPECTION OF STEEL FRAME		Х			
1704.3) 1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS,	INOUS	ODIC		REF'RENCE	JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTUCTION DOCUMENTS:					
AND WASHERS: A. IDENTIFICATION MARKINGS		Х	APPLICABLE ASTM		A. DETAILS SUCH AS BRACING AND STIFFENING		Х			1704.3.2
TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS			MATERIAL SPECIFICATIONS; AISC 360, SECTION A3.3		B. MEMBER LOCATIONS C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION		X X			
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE		Х		_						
REQUIRED 2. INSPECTION OF HIGH-					REQUIRED VERIFICATION AND		UENCY PERI-		ERENCE CRIT	
STRENGTH BOLTING		v			INSPECTION OF CONCRETE CONSTRUCTION (TABLE 1704.4)	INOUS	ODIC			SECTION
A. SNUG TIGHT JOINTS		Х			1. INSPECTION OF REINFORCING STEEL AND PLACEMENT		Х	ACI 318: 3	3.5, 7.1-7.7	1913.4
B. SLIP-CRITICAL CONNECTIONS WITH MATCHMARKING, TWIST OFF	Х	Х			2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5B				S D1.4 8: 3.5.2	
BOLT OR DIRECT TENSION			AISC 360, SECTION M2.5	1704.3.3	3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR	Х		ACI 318: 8	3.13, 21.2.8	1911.5, 1912.1
C. SLIP-CRITICAL CONNECTIONS WITHOUT MATCHMARKING OR	Х				TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED					1012.1
CALIBRATED WRENCH METHODS 3. MATERIAL VERIFICATION OF STRUCTURAL STEEL					4. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE		Х	ACI 318;3.8.6	6, 8.1.3, 21.2.8	1912.1
A. IDENTIFICATION MARKINGS TO CONFORM TO AISC 360		X	AISC 360, SECTION M5.5		5. VERIFYING USE OF REQUIRED DESIGN MIX		Х	ACI 318: C	H. 4, 5.2-5.4	1904.3, 1913.2, 1913.3
B. FOR OTHER STEEL INDENTIFICATION MARKINGS TO CONFORM TO ASTM		Х	APPLICABLE ASTM MATERIAL STANDARDS		6. AT THE TIME FRESH CONRETE IS SAMPLED TO FABRICATE SPECIFIMENS FOR STRENGTH	Х		AST	1 C 172 ⁄I C 31 5.6, 5.8	1913.1
STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS		X			TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE				. 3.0, 3.0	
C. MANUFACTURER'S CERTIFIED MILL TEST REPORTS 4. MATERIAL VERFICATION OF WELD FILLER MATERIALS		Х			CONCRETE 7. INSPECTION OF CONCRETE PLACEMENT FOR PROPER	Х		ACI 318:	5.9, 5.10	1913.6, 1913.7,
A. IDENTIFICATION MARKINGS		Х	AISC 360, SECTION A3.5	_	APPLICATION TECHNIQUES 8. INSPECTION FOR		Х	ACI 318:	5.11-5.13	1913.8 1913.9
TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS			AND APPLICABLE AWS A5 DOCUMENTS		MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES					
MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED		Х			9. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		Х	ACI 31	8: 6.1.1	
5. INSPECTION OF WELDING										
A. STRUCTURAL STEEL AND COLD FORMED STEEL DECK					LEVEL 1 SPECIAL INSPECTION	CONT-	UENCY PERI-	OBC	ERENCE CRI1 ACI 530/	ACI 530.1/
1) COMPLETE AND PARTIAL PENETRATION	Х				(TABLE 1704.5.1) INSPECTION TASK 1. AS MASONRY CONSTRUCTION	INOUS	ODIC	SECTION	ASCE 5/ TMS 402	ASCE 6/ TMS 602
GROOVE WELDS 2) MULTIPASS FILLET WELDS	Х				BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE					
3) SINGLE-PASS FILLET WELDS < 5/16"	Х		AWS D1.1	1704.3.1	COMPLIANCE: A. PROPORTIONS OF SITE-		Х			ART. 2.6a
4) PLUG AND SLOT WELDS	Х				PREPARED MORTAR B. CONSTRUCTION OF		Х			ART. 3.3B
5) SINGLE-PASS FILLET WELDS < 5/16"		Х			MORTAR JOINTS C. LOCATION OF		х			ART. 3.4,
5) FLOOR AND ROOF DECK WELDS		Х	AWS D1.3		REINFORCEMENT, CONNECTORS AND					3.6A
B. REINFORCING STEEL:		V			ANCHORAGES 2. THE INSPECTION PROGRAM					
1) VERIFICATION OF WELDABILITY OF		Х			SHALL VERIFY: A. SIZE AND LOCATION OF		Х			ART. 3.3F
REINFORCING STEEL OTHER THAN ASTM A 706					STRUCTURAL ELEMENTS					AIX1. 3.31
2) REINFORCING STEEL- RESISTING FLEXURAL AND AXIAL FORCES IN	Х				B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO		Х		SEC. 1.2.2(E), 1.16.1	
INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL			AWS D1.4 ACI 318: 3.5.2		STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION					
REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT					C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT		Х		SEC. 1.15	ART. 2.4, 3.4

R CEMENT REINFORCING	X 	 X		
OF STEEL FRAME OR COMPLIANCE CONSTUCTION		Х		
SUCH AS STIFFENING		Х		1704.3.2
LOCATIONS		Х		
ION OF JOINT ACH		Х		

D. WELDING OF REINFORCING BARS	Х
 E. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEG F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEG F) 3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED 	
TO ENSURE COMPLIANCE: A. GROUT SPACE IS CLEAN B. PLACEMENT OF REINFORCEMENT AND CONNECTORS	
C. PROPORTIONS OF SITE- PREPARED GROUT	
D. CONSTRUCTION OF MORTAR JOINTS	
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT	Х
 PROVISIONS 5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED 6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS 	
SHALL BE VERIFIED	
SHALL BE VERIFIED REQUIRED VERIFICATION AND INSPECTION OF SOILS (TABLE	FREQ CONT- INOUS
SHALL BE VERIFIED REQUIRED VERIFICATION AND INSPECTION OF SOILS (TABLE 1704.7) VERIFICATION AND INSPECTION 1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING	CONT-
SHALL BE VERIFIED REQUIRED VERIFICATION AND INSPECTION OF SOILS (TABLE 1704.7) VERIFICATION AND INSPECTION 1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO	CONT-
SHALL BE VERIFIED REQUIRED VERIFICATION AND INSPECTION OF SOILS (TABLE 1704.7) VERIFICATION AND INSPECTION 1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY 2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER	CONT-
SHALL BE VERIFIED REQUIRED VERIFICATION AND INSPECTION OF SOILS (TABLE 1704.7) VERIFICATION AND INSPECTION 1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY 2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL 3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL	CONT-
SHALL BE VERIFIED REQUIRED VERIFICATION AND INSPECTION OF SOILS (TABLE 1704.7) VERIFICATION AND INSPECTION 1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY 2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL 3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS 4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF	CONT-INOUS

VERIFY ALL DIMENSIONS IN FIELD

 X	 SEC. 2104.3, 2104.4	SEC. 2.1.9.7.2, 3.3.3.4(B) 	 ART. 1.8C, 1.8D
X X		 SEC. 1.13	ART. 3.2D ART 3.4
Х			ART. 2.6B
Х			ART . 3.3B
			ART 3.5
	SEC. 2105.2.2, 2105.3		ART. 1.4
Х			ART. 1.5

QUENCY PERI-ODIC

- Х
- Х
- Х ____
- Х

PRELIMINARY NOT TO BE USED FOR CONSTRUCTION **SPECIAL INSPECTIONS**

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REVISIONS

PROJECT: 2212 DATE: 8.30.22 DRAWN: WCH CHECKED: WCH

S002

UNIT		MANUFACTURER		STYLE	FINISH	COLOR	POWER	CONTACT	STANDA RDS/ RESPONSIBILI TY	
	FORMOF	AIA A101	1	1	DIVISION	1	1	l	1	
	AGREEMENT									
	GENERAL CONDITIONS	AIA A201								APPLIES TO ALL CONT. AND SUBS
	SUBSTITUTIONS									NONE ACCEPTED FOR PROPRIETARY SPECIFICATIONS
LITEM	IS LISTED SHALL BE PP	ROVIDED AND INSTALLE	D BYTHE CONTR.	FOR A COMPLE	TE SYSTEM	UNLESS OTH	ERWISE NO	DTED. THE LIST		A RECOMMENDED SUPPLIER ONLY.
STED F	RODUCT									PONSIBILITY TO PROVIDE THE
	MPARABLY EQUAL PRO ADDITIONAL	DUCT AS APPROVED B	YTHE ARCHITECT.	INACCURACIE	SINTHEPR	ODUCTSPRE	EADSHEET	SHALL BE REPO	DRTED TO THE	ARCHITECT DURING THE BIDDING
	SATION SHALL NOT BE	ALLOWED FOR THE CO	ONTRACTOR FOR I	NACCURACIES	OR OMMISSI	ONS REPOR	TED AFTER	AWARD OF COM	NTRACT. ALLOV	VANCES FOR SELECTED PRODUCTS
	SPECIFICATION.									
					DIVISION	2				
	TOPSOIL			4" DEPTH	N/A	N/A	N/A			STOCKPILE/ RE-USE EXISTING/
	GRASS SEE D	MICHIGAN STATE SEED	PRO SPORTS	80%	N/A	N/A	N/A	800-647-8873		SUPPLEMENT WITH NEW 85% PURITY, 80% GERMINATION, 1%
		SOLUTIONS	TURF MIXTURE	KENTUCKY BLUEGRASS						WEED: 150 LBS PER ACRE, 4 LBS PER 1000SF
				20% PERENNIAL						
	PVC CEMENT			FERENNAL	N/A	N/A	N/A	800-348-7671	D - 1785	
	PVC GRAVITY SEWER SOLVENT WELD				N/A	N/A	N/A	800-348-7671	D - 3034 SDR - 35	
	BELL									
	10 Test 10 Test				DIVISION					200 00000 0000
SS-1	SOLID SURFACE COUNTER	CORIAN					N/A		AWI 400	1 1/2" FULL BULL NOSE EDGE AT COUNTERS
	PLASTIC LAMINATE	NEVAMAR	DANGER		1	BYOWNER	N/A	800-638-4380		
	SHELVING- WOOD	3/4" HARDWOOD VENEER WITH 1 1/2"	PAINTED			WHITE	N/A			3/4" BIRCH VENEER PLYWOOD W/1 1/2" HARDWOOD EDGE- PAINTED
	METAL COAT ROD	HARDWOOD EDGE STANLEY			PEENED		N/A			PROVIDE BRACKETS
		MASTERPIECE	BYOWNER	WOOD	the second se	BYOWNER		734-769-7669	AWI 400/ KCMA	
	CABINET HARDWARE	MASTERPIECE	205 PULLS		FACTORY	and the second se	N/A	734-769-7669		
	KITCHEN					CHROME				
	EPDM	CARLISLE OR	45 MI	1	DIVISION	7 BLACK	NA	1		
	EPDM	FIRESTONE	45 MIL REINFORCED			DLAUK	N/A			
	FIBERGLASS INSUL - WALL	OWENS CORNING		4"	N/A	N/A	N/A		[
	FIBERGLASS INSUL -	OWENS CORNING		6"	N/A	N/A	N/A			PROVIDE STYROFOAM VENT
	Ceiling Rigid Insul	STYROFOAM	RIGID	SEE	N/A	N/A	N/A			BAFFLES
	PERIMETER	FO AMULAR 400		DRAWINGS FOR						
	SEALANT-EXTERIOR		<u> </u>	DIMENSIONS	<u> </u>		NUA	<u> </u>	DEAC COST	
							N/A			TWO COMPONENT POLYSULFIDE W BACKER ROD
	SEALANT-INTERIOR SILL SEALER				N/A	N/A	N/A N/A		PFAS FREE	
					DIVISION	-	N.L.A.	:	1	
	DOOR INTERIOR OFFICE	USA FIRE DOOR	PC SCL OR STV SOLID CORE	CLEAR CHERRY	FACTORY STAIN	BYOWNER	DWA -			ARCHITECTURAL STAIN GRADE CHEERY, PLAIN SLICED, COLOR TO
	EXT WINDOW	PPG	CLEAR SOLAR			<u> </u>	N/A		PFAS FREE	MATCH CABINETS
	GLAZING DOOR: COMMERCIAL	CTEEL CDAET	BAN 60 INSULATED	18 GAUGE	PAINT	BYOWNER				16 GAUGE STEEL FRAMES WITH
	METAL	STEELGRAFT	INSULATED	STEEL	EAINT	DT OWINER	INVA			WELDED CORNERS AND FRAME
										REINFORCEMENT. ALL JOINTS WELDED AND GROUND SMOOTH.
										THREE FRAME ANCHORS MIN. PER JAMB
	DOOR HARDWARE					BYOWNER				JAMD
FFICE	FINISH HARDWARE	SCHLAGE	AL50PD	JUPITER	LIFETIME	BYOWNER	N/A			
	LOCKSET			LEVER						
GE	HARDWARE LOCKSET	SCHLAGE	AL80PD	JUPITER LEVER		BYOWNER	N/A			
	HARDWARE LOCKSET	SCHLAGE	AL10S		LIFETIME	BYOWNER				
WACY	HARDWARE	SCHLAGE	AL40S	JUPITER	LIFETIME	BYOWNER		•	1	•
	LOCKSET HARDWARE EXIT	VON DUPRIN	9927LX 992L08		US26D	US26D	N/A			
						SATIN CHROME				
	HARDWARE CLOSER	LCN	4013/4113		ALUM	BYOWNER	N/A			
	HARDWARE HINGES		BB1279NRP	4 1/2 X 4 1/2	US26D	BYOWNER				
	HARDWARE SWEEPS	NATIONAL GUARD	601A			BYOWNER	N/A			
	HARDWARE ASTRAGAL	NATIONAL GUARD				BYOWNER	N/A			
	HARDWARE	NATIONAL GUARD	190V		N/A	BYOWNER	N/A			
	WEATHE RSTRIPPING									
	HARDWARE STRIKE	LOCKSET PROVIDER	EXTENDED	MATCH	MATCH	BYOWNER	NA			EXTENDED STRIKE PLATE AT DEEP
	ALUMINUM WINDOW	KAWNEER OR EQUAL	4 1/2"	TRIFAB	1	BYOWNER	N/A			JAMB THERMALLYBROKEN
					OWNER	9		l		
	GYPSUM BOARD	US GYPSUM		Ĩ	PRIME	BYOWNER	N/A		ľ	GLUE AND SCREW
	GYPSUM	US GYPSUM			AND PAINT	BYOWNER	N/A	ļ		GLUE AND SCREW
	GREENBOARD		0.11	B # 1 ***	AND PAINT					
	LAY-IN CEILING GRID		CLIMAPLUS DONN	24" X 48" DX-DXL-24	MILLENNIA	WHITE	N/A N/A			
	TILE	ARMSTRONG	CROSSVILLE	BYOWNER	BYOWNER	BYOWNER				LATEX ADHESIVE
	T-1 GROUT	POLYBLEND		1	BYOWNER	BYOWNER	N/A		1	LATEX GROUT
T-2	TILE	ARMSTRONG	CROSSVILLE	BYOWNER	BYOWNER	BYOWNER	N/A			LATEX ADHESIVE
	T-2 GROUT	POLYBLEND				BYOWNER	C. S. D. C.		Taglet start -	LATEX GROUT
	VINYL BASE PAINT	ROPPE SHERWIN WILLIAMS	BYOWNER	BYOWNER	BYOWNER	BYOWNER BYOWNER		ļ	PFAS FREE	LATEX DRYWALL PRIMER. STAIN
1711 		STREET WILL PWID				S . SWINER	1.107		, the frice	BLOCKING PRIMER ON STAINS, AND
										TWO COATS LOW LUSTER LATEX EGGSHELL
	PAINT- BLOCK AND	DEVOE	BYOWNER	BYOWNER	BYOWNER	BYOWNER	N/A	••••••	PFAS FREE	ONE COAT FILLER AND SEALER, AND
	STUCCO PAINT	SHERWIN WILLIAMS				CEILING	N/A		PFAS FREE	ONE COAT LATEX SATIN SHEEN. THOROUGHLY CLEAN WITH WIRE
						WHITE				BRUSH AND RINSE, THEN OIL BASED RUST INHIBITIVE METAL
										PRIMER, ALLOW TO DRY 24 HOURS,
			Ļ		ļ					TWO COATS LOW LUSTER ACRYLIC
P-7	PAINT- ZINC COATED METAL	DEVOE				BYOWNER	N/A		PFAS FREE	THOROUGHLY CLEAN AND REMOVE POWDERY OXIDE, GALVANIZED
										METAL PRIMER, TWO COATS LOW LUSTER ACRYLIC
	PAINT- ALUMINUM					BYOWNER	N/A		PFAS FREE	THOROUGHLY CLEAN AND REMOVE
										POWDERYOXIDE, ALUMINUM PRIMER, TWO COATS SEMI-GLOSS
										ACRYLIC ENAMEL
	TOILET PAPER DISP	BOBRICK	4262,262	1	DIVISION	CHROME	N/A		1	LOCATE IN ALL BATHROOMS
	PAPER TOWEL	BOBRICK	B-369	+		CHROME	N/A	•	1	
	DISPENSER/ DISPOSAL									
	SANITARYDISPOSAL SOAP DISPENSER	BOBRICK BOBRICK	270 822			CHROME CHROME	N/A N/A			
	MIRROR	BOBRICK	BEVELED EDGE			CHROME	N/A			
	GRAB BARS PHONE JACK	BOBRICK	550 SERIES		N/A	CHROME	N/A N/A			
	COMPUTER JACK FIRE EXTINGUISHER			2A; 10BC	N/A		N/A N/A			
	CONTRACTOR OUTSPEC	ar a voronti	•	1000	DIVISION		1.9073		· · · · · · · · · · · · · · · · · · ·	:
		 			-	BYOWNER				
	DISHWASHER	BYOWNER				BYOWNER	15A			DEDICATED CIRCUIT
		BYOWNER BYOWNER					15A			DEDICATED CIRCUIT ICE MAKER, WATER DISPENSER, WATER SUPPLY

			DIV	ISION15				
FURNACE FILTER	HONEYWELL	F25F MEDIA		N/A				
THERMOSTAT	CARRIER	ELECTRONIC/ DIGITAL	TSTAT CCP	WHITE				
DUCTWORK	1	GALV. STEEL		N/A	NA		SMACINA	
DUCT INSULATION	4	2'	.76 LB DENSITY	N/A	N/A			FACTORY ATTACHED VINYL JACKE
DUCT INSULATION		1"	1.5 LB DENSITY	N/A	N/A		2	SEMI RIGID: FIRE RESISTANT COATING ON AIR SIDE
BACKFLOW	BEECO			N/A	N/A			
GAS PIPING	REPUBLIC X-TRUCOAT WITH POLYETHYLENE SHEATH BELOW GRADE		SCHED 40 BLACK STEEL	N/A	N/A		LOCAL CODE	SCREWED MALLEABLE IRON FITTINGS.
PUMBIN G ACCESS PANEL	12"X 12"	STEEL	PAINTED	BYOWNER	N/A			
SANITARYPIPING			PVC SCHED. 40 DWV	N/A	N/A		CURRENT CODE	INSULATED CAST IRON IN RETUR! AIR PLENUM; WASTELINES SHALL NOT BE CELLULAR PVC
POTABLE WATER AND CONDENSATE DRAIN PIPING			TYPE L HARD COPPER	N/A	N/A			
WATER VALVE	CRANE	440 GATE		N/A	N/A	•	+	
PIPE INSULATION	MANVILLE	MICRO-LOK 650	+	N/A	N/A			
DRAIN AND VENT PIPING			DWVHARD COPPER	N/A	N/A			OR SCHED. 40 PVC: JOSAM 88902 THREADED AIR GAP
BALL VALVE				N/A	N/A	•		•
POTABLE WATER PIPING 1/2"		TYPEL COPPER TYPE M COPPER			N/A			
POTABLE WATER PIPING 2" TO 3/4"		TYPE K COPPER SOFT			N/A		2	UNDERSLAB PIPING
			DIV	ISION 16	*			-
CONDUIT			3/4" EMT	N/A	N/A			
EXPOSED WIRING	WIREMOLD	V500	1		N/A	586-530-6253		
DUPLEX	HUBBEL	5362		WHITE	20A/120W			STRAIGHT BLADE, 2 POLE, 3
RECEPTACLE					1P			WIRE, NEMA CONFIGURATION 5-20 125V SPEC GRADE
FACE PLATES	Ι	l		WHITE	N/A			
GFI	HUBBELL	GF5382-1		WHITE	20A/ 125V			2 POLE, 3 WIRE, GROUNDING TYP NEMA CONFIGURATION 5-20 R
WALL SWITCHES	HUBBELL			WHITE	20A/ 120/270V	•	1	TOGGLE OPERATED

PRELIMINARY NOT TO BE USED FOR CONSTRUCTION

OFFICE RENOVATIONS TO CONTRACTORS STEEL 48649 SCHOONER DR., VAN BUREN TWP., MI 48111



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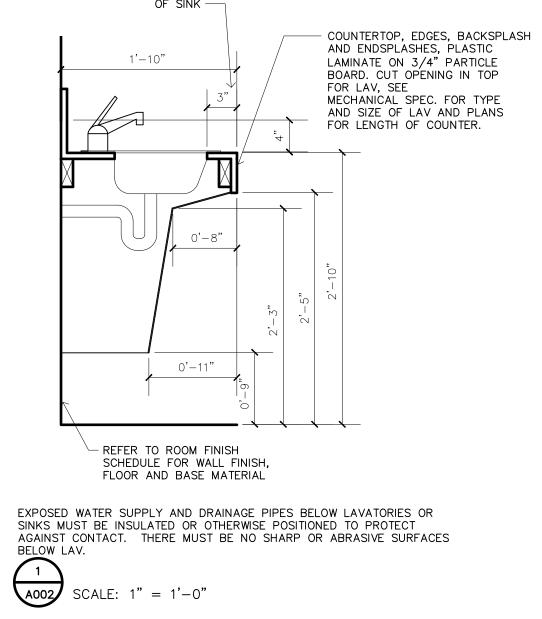


	APPLICABLE CODES		
	BUILDING	2015 MICHIGAN REHABILITATION CODE	
		FOR EXISTING BUILDINGS	
	ACCESSIBILITY	2009 ICC/ANSI A 117.1 - ACCESSIBLE	
		AND USABLE BUILDINGS AND FACILITIES	
	ENERGY CODE	2010 AMERICANS WITH DISABILITIES ASHRAE 90.1 2013; IECC 2015	-
	MECHANICAL	2015 INTERNATIONAL MECHANICAL	
	PLUM BING ELECTRICAL	2015 INTERNATIONAL PLUM BING CODE 2017 NFPA 70 NATIONAL ELECTRICAL	
	LEEGHNOME	CODE	
SECTION #	CHAPTER 1		
107.3.4	REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE		WAYDE HOPPE
107.3.4.1	THE FOLLOWING ITEMS ARE DEFERRED SUBMITTALS. DESIGN OF THESE ITEMS WILL BE SUBMITTED AFTER THE AWARD OF CONTRACT		NON REQUIRED
SECTION #	CHAPTER 3		
	USE AND OCCUPANCY CLASSIF		
03. <mark>4</mark>	OCCUPANCY CLASSIFICATION	FACTORY INDUSTRIAL	
	GROUP CLASSIFICATION USE CLASSIFICATION	F-2 LOW HAZARD: METAL PRODUCTS	
04	OCCUPANCY CLASSIFICATION	BUSINESS	
	GROUP CLASSIFICATION	GROUP B	
		PROFESSIONAL SERVICE	
SECTION #	CHAPTER 4	REQUIRED	PROVIDED
SECTION #		REQUIRED	PROVIDED
ABLE 508.4	BUILDING AREA OCCUPANCY SEPARATION	NONE REQUIRED	NONE PROVIDED
03.1.1	SPECIAL INDUSTRIAL OCCUPANCIES	EXEMPT FROM HEIGHT AND AREA RESTRICTIONS	
	AREA OF SUITE		2785 SF
SECTION #	CHAPTER 6	REQUIRED	PROVIDED
	BUILDING CONSTRUCTION TYPE		110
ABLE 601	CONSTRUCTION TYPE FIRE RESISTANCE RATINGS	liB	IIB
ABLE 601	STRUCTURAL FRAME	0 HOURS	0 HOURS
ABLE 601 ABLE 601	EXTERIOR BEARING WALLS INTERIOR BEARING WALLS	0 HOURS 0 HOURS	0 HOURS 0 HOURS
ABLE 601		0 HOURS	0 HOURS
ABLE 601 ABLE 601	INTERIOR NON-BEARING WALLS/PARTITIIONS FLOOR CONSTRUCTION	0 HOURS 0 HOURS	0 HOURS 0 HOURS
ABLE 601	ROOF CONSTRUCTION	0 HOURS	0 HOURS
ABLE 602	CHAPTER 7	0 HOURS REQUIRED	0 HOURS PROVIDED
SECTION 705.8.1	FIRE AND SMOKE PROTECTION FIRE-RESISTANCE RATED CONSTRUCTION EXTERIOR WALL OPENINGS		
ABLE 706.4	FIRE WALL RATING	NOTAPPLICABLE	NOTAPPLICABLE
ABLE 707.3.10		NOT APPLICABLE NOT APPLICABLE	NOT APPLICABLE NOT APPLICABLE
ECTION 708	FIRE PARTITIONS	NOTAPPLICABLE	NOTAPPLICABLE
	SMOKE BARRIERS SMOKE PARTITIONS	NOT APPLICABLE NOT APPLICABLE	NOT APPLICABLE NOT APPLICABLE
	DRAFTSTOPPING	NOTAPPLICABLE	NOT APPLICABLE
SECTION #	CHAPTER 8	REQUIRED	PROVIDED
	INTERIOR FINISHES OCCUPANCY	В	
	-EXIT ENCLOSURES/ PASSAGEWAYS	CLASS A (0-25 FLAME SPREAD INDEX:	CLASS A (0-25 FLAME SPREAD INDE)
	-CORRIDORS	0-450 SMOKE DEVELOPED INDEX) CLASS B (25-75 FLAME SPREAD INDEX: 450 SMOKE DEVELOPED	0-450 SMOKE DEVELOPED INDEX) CLASS B (25-75 FLAME SPREAD INDEX: 450 SMOKE DEVELOPED
	-ROOMS AND ENCLOSED SPACES	INDEX) CLASS C (76-200 FLAME SPREAD INDEX: .450 SM OKE DEVELOPED	INDEX) CLASS C (76-200 FLAME SPREAD INDEX: .450 SMOKE DEVELOPED
	INTERIOR FLOOR FINISH	INDEX) GROUP B TO HAVE MINIM UM CRITICAL RADIANT FLUX NOT LESS THAN CLASS	INDEX)
SECTION #	CHAPTER 9	2 REQUIRED	PROVIDED
CONTON #	FIRE PROTECTION SYSTEMS	NEQUINED	TROVIDED
EOTION ODD 4		NO SPRINKLER SYSTEM REQUIRED	NONE PROVIDED
ECTION 906.1	FIRE EXTINGUISHERS	COMPLY WITH FIRE CODE	PROVIDED
SECTION #	OCCUPANT LOAD	REQUIRED	PROVIDED
ABLE 1004.1.1	B USE GROUP BUSINESS	100 GROSS	2785 / 100 = 28
DEC 1004.1.1	MEANS OF EGRESS		21007 100 - 20
	EGRESS TYPES	В	
			N/A
		NA 28 PEOPLE X.2"/PERSON =5.6 INCHES	72"
	STAIRWAYS OTHER EGRESS COMPONENTS: .2"/PERSON 28 TRAVEL DISTANCE B NON SPRINKLED	28 PEOPLE X 2"/PERSON = 5.6 INCHES 200'	72" 163
ECTION 1020.2	STAIRWAYS OTHER EGRESS COMPONENTS: .2"/PERSON 28 TRAVEL DISTANCE B NON SPRINKLED CORRIDOR WIDTH WITH OCCUPANT LOAD <50 CORRIDOR RATING NON SPRINKLED SERVING	28 PEOPLE X 2"/PERSON = 5.6 INCHES	72" 163 NA
ECTION 1020.2 ABLE 1020.1	STAIRWAYS OTHER EGRESS COMPONENTS: .2"/PERSON 28 TRAVEL DISTANCE B NON SPRINKLED CORRIDOR WIDTH WITH OCCUPANT LOAD <50	28 PEOPLE X.2"/PERSON = 5.6 INCHES 200" 36 INCHES (MIN.)	72" 163
ECTION 1020.2 ABLE 1020.1	STAIRWAYS OTHER EGRESS COMPONENTS: .2"/PERSON 28 TRAVEL DISTANCE B NON SPRINKLED CORRIDOR WIDTH WITH OCCUPANT LOAD <50 CORRIDOR RATING NON SPRINKLED SERVING < 30	28 PEOPLE X 2"/PERSON = 5.6 INCHES 200" 36 INCHES (MIN.) 0	72" 163' NA NA
ECTION 1020.2 ABLE 1020.1 ABLE 1006.3.1	STAIRWAYS OTHER EGRESS COMPONENTS: .2"/PERSON 28 TRAVEL DISTANCE B NON SPRINKLED CORRIDOR WIDTH WITH OCCUPANT LOAD <50 CORRIDOR RATING NON SPRINKLED SERVING < 30 NUMBER OF EXITS	28 PEOPLE X.2"/PERSON = 5.6 INCHES 200" 36 INCHES (MIN.) 0 2	72" 163 NA NA 2 PROVIDED
ECTION 1020.2 ABLE 1020.1 ABLE 1006.3.1	STAIRWAYS OTHER EGRESS COMPONENTS: .2"/PERSON 28 TRAVEL DISTANCE B NON SPRINKLED CORRIDOR WIDTH WITH OCCUPANT LOAD <50 CORRIDOR RATING NON SPRINKLED SERVING < 30 NUMBER OF EXITS CHAPTER 11	28 PEOPLE X.2"/PERSON = 5.6 INCHES 200" 36 INCHES (MIN.) 0 2	72" 163 NA NA 2
ECTION 1020.2 ABLE 1020.1 ABLE 1006.3.1	STAIRWAYS OTHER EGRESS COMPONENTS: .2"/PERSON 28 TRAVEL DISTANCE B NON SPRINKLED CORRIDOR WIDTH WITH OCCUPANT LOAD <50 CORRIDOR RATING NON SPRINKLED SERVING < 30 NUMBER OF EXITS CHAPTER 11 ACCESSIBILITY MICHIGAN PLUMBING CODE	28 PEOPLE X.2"/PERSON = 5.6 INCHES 200" 36 INCHES (MIN.) 0 2	72" 163 NA NA 2 PROVIDED ACCESS TO SUITE AND WITHIN SUITE
ECTION 1020.2 ABLE 1020.1 ABLE 1006.3.1 SECTION #	STAIRWAYS OTHER EGRESS COMPONENTS: .2"/PERSON 28 TRAVEL DISTANCE B NON SPRINKLED CORRIDOR WIDTH WITH OCCUPANT LOAD <50 CORRIDOR RATING NON SPRINKLED SERVING < 30 NUMBER OF EXITS CHAPTER 11 ACCESSIBILITY MICHIGAN PLUMBING CODE B BUSINESS WC: 1:25 FOR FIRST 50 AND 1:50 FOR THE	28 PEOPLE X 2"/PERSON = 5.6 INCHES 200" 36 INCHES (MIN.) 0 2 REQUIRED	72" 163 NA NA 2 PROVIDED ACCESS TO SUITE AND WITHIN SUITE IS ACCESSIBLE
	STAIRWAYS OTHER EGRESS COMPONENTS: .2"/PERSON 28 TRAVEL DISTANCE B NON SPRINKLED CORRIDOR WIDTH WITH OCCUPANT LOAD <50 CORRIDOR RATING NON SPRINKLED SERVING < 30 NUMBER OF EXITS CHAPTER 11 ACCESSIBILITY MICHIGAN PLUMBING CODE B BUSINESS	28 PEOPLE X 2"/PERSON = 5.6 INCHES 200" 36 INCHES (MIN.) 0 2 REQUIRED REQUIRED	72" 163 NA NA 2 PROVIDED ACCESS TO SUITE AND WITHIN SUITE IS ACCESSIBLE PROVIDED

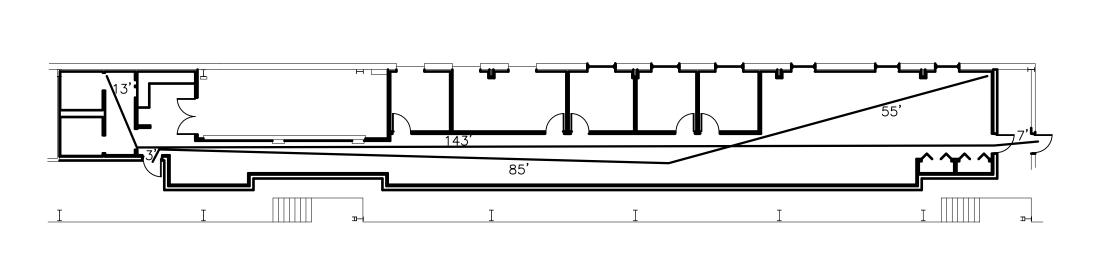
SECTION #	CODE FOR EXISTING BUILDINGS	DEQUIDED	PROVIDED
SECTION #	BOILDINGO	REQUIRED	PROVIDED
SECTION #	CHAPTER 4	REQUIRED	PROVIDED
	PRESCRIPTIVE METHOD		
403	ALTERATIONS SHALL COMPLY WITH THE MBC		SEE MBC REVIEW ABOVE
SECTION #	CHAPTER 5	REQUIRED	PROVIDED
	WORK AREA METHODS		
SECTION #	CHAPTER 8	REQUIRED	PROVIDED
	ALTERATIONS LEVEL 2		
803.4	MEET THE INTERIOR FINISH REQUIREMENTS OF THE MBC		PROVIDED
804	FIRE PROTECTION	NONE REQUIRED	
805.3	THE NUMBER OF EXITS IS TO BE DETERMINED BY THE OCCUPANT LOAD PER THE MBC		PROVIDED
805.4	WORK AREAS WITH OCCUPANT LOADS GREATER THAN 50 AND TRAVEL DISTANCE GREATER THAN 75 FEET PROVIDE TWO MEANS OF EGRESS		NA
805.6	DEAD ENDS LIMITED TO 35'		NO DEAD ENDS PROVIDED
805.8	EXIT SIGNS		PROVIDED
806.1	COMPLY WITH ACCESSIBILITY OF 410		PROVIDED

VERIFY ALL DIMENSIONS IN FIELD PRELIMINARY NOT TO BE USED FOR CONSTRUCTION

3" MAX MEASURED FROM FRONT OF COUNTER TO DROP-OFF POINT OF SINK -----



TP DISPENSER -

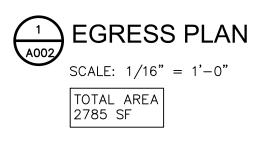


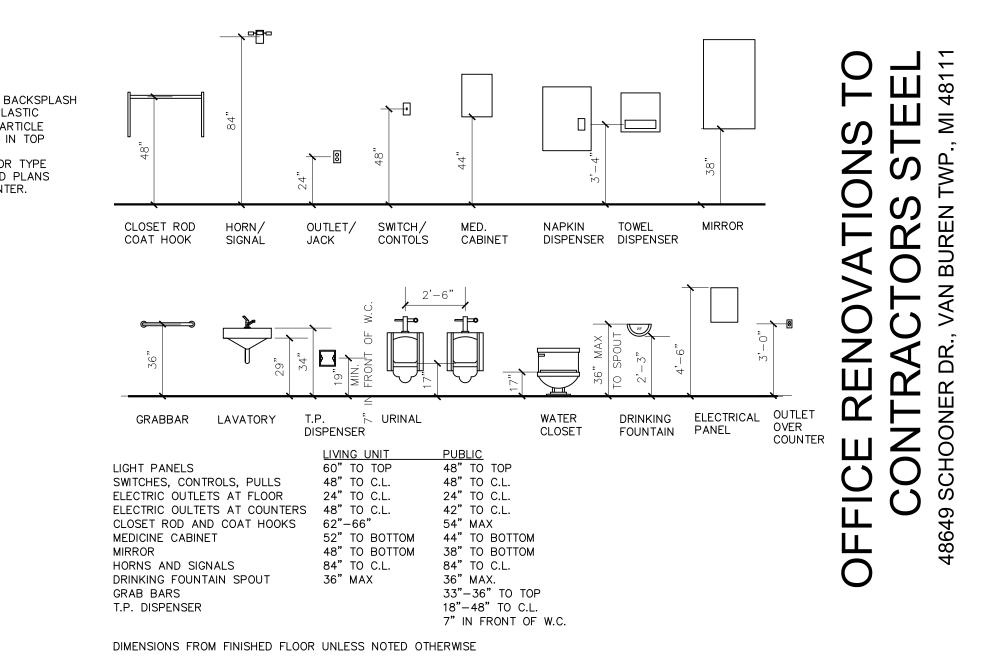
PROJECT NORTH

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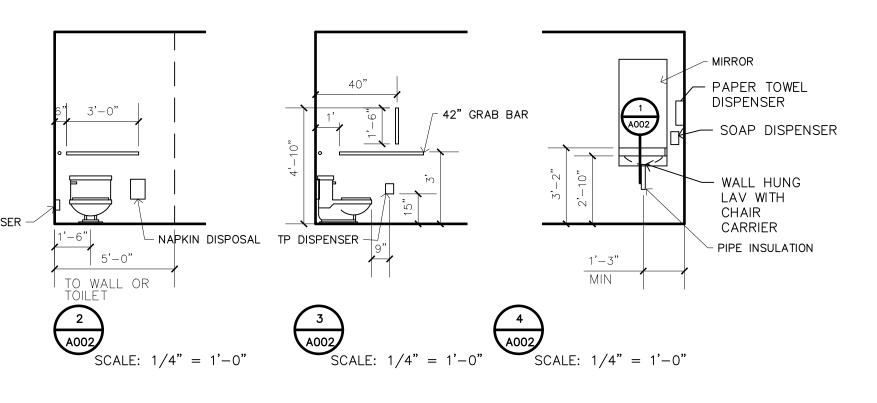
CODE REVIEW

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BARRIER FREE FIXTURE HEIGHTS



REVISIONS

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HOPPE DESIGN, 47032 MCBRIDE, BELLEVILLE, MI 48111 734-218-7407

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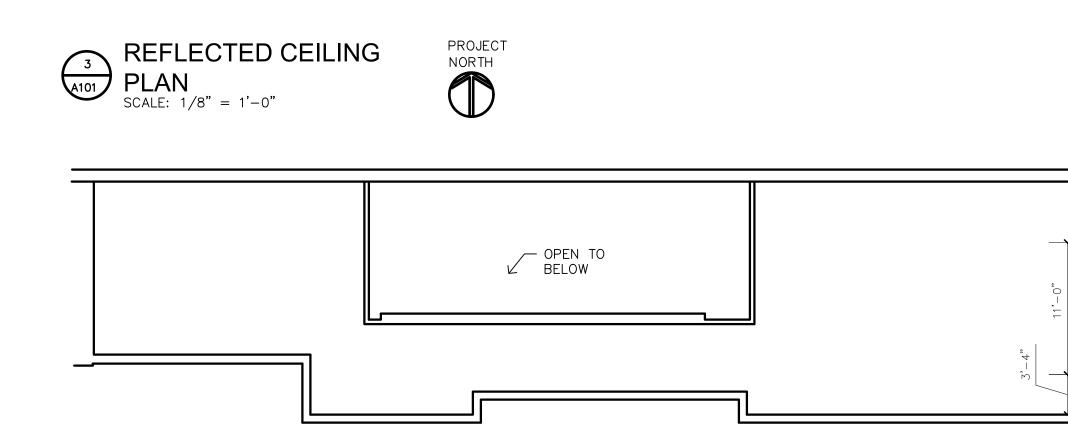
4864

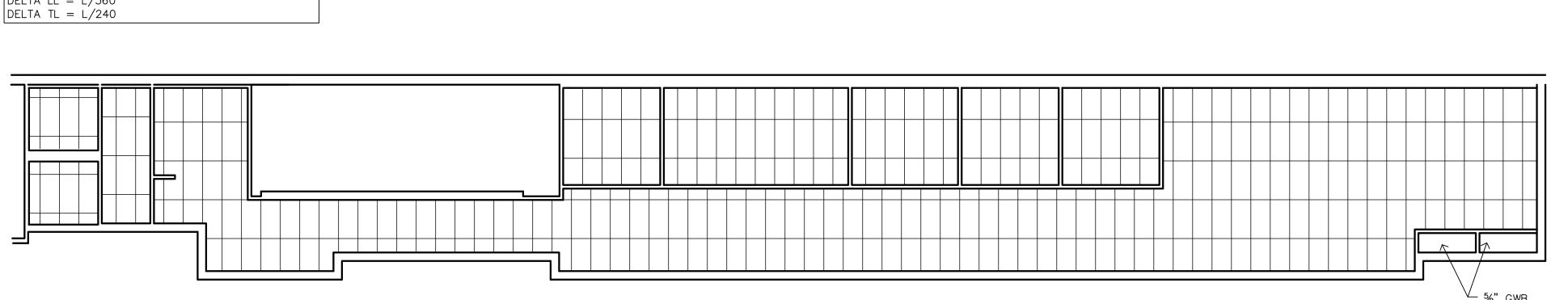
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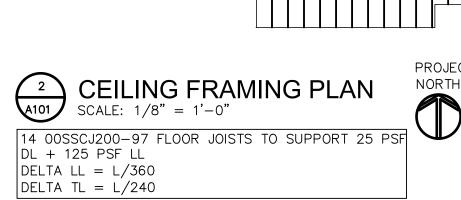


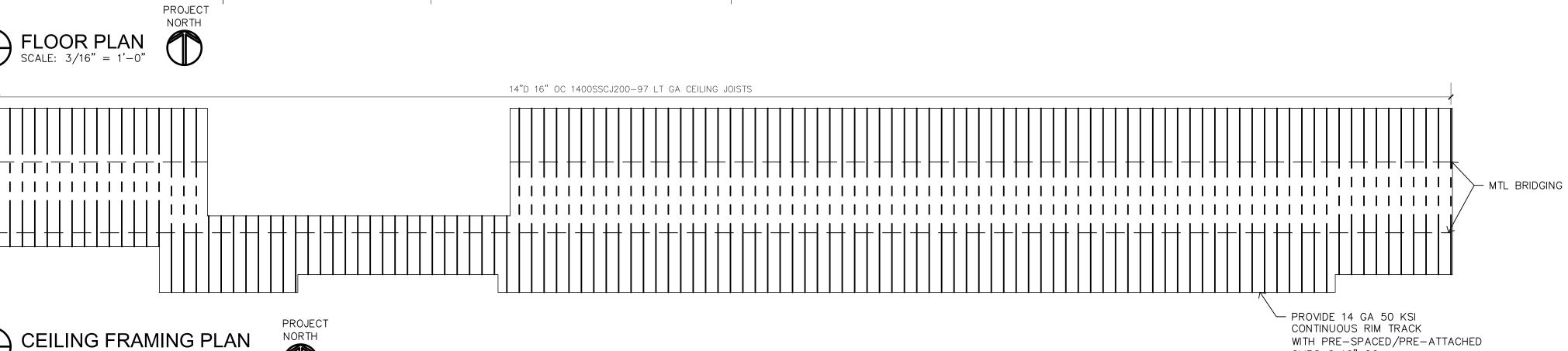














21'-6"

 \square

31'-9"

3'-9"

– EX

PANEL

ELECTRICAL CLOSET

- EXIST MASONRY WALL TO REMAIN

- FX

PANEL

HALL

105

3'-3"

KITCHENETTE

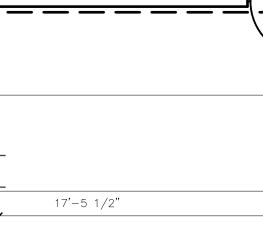
106

13'-1 1/2"

(18)

14'-10 1/2"

104

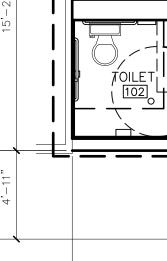


FLOOR PLAN SCALE: 3/16" = 1'-0"

5 A101

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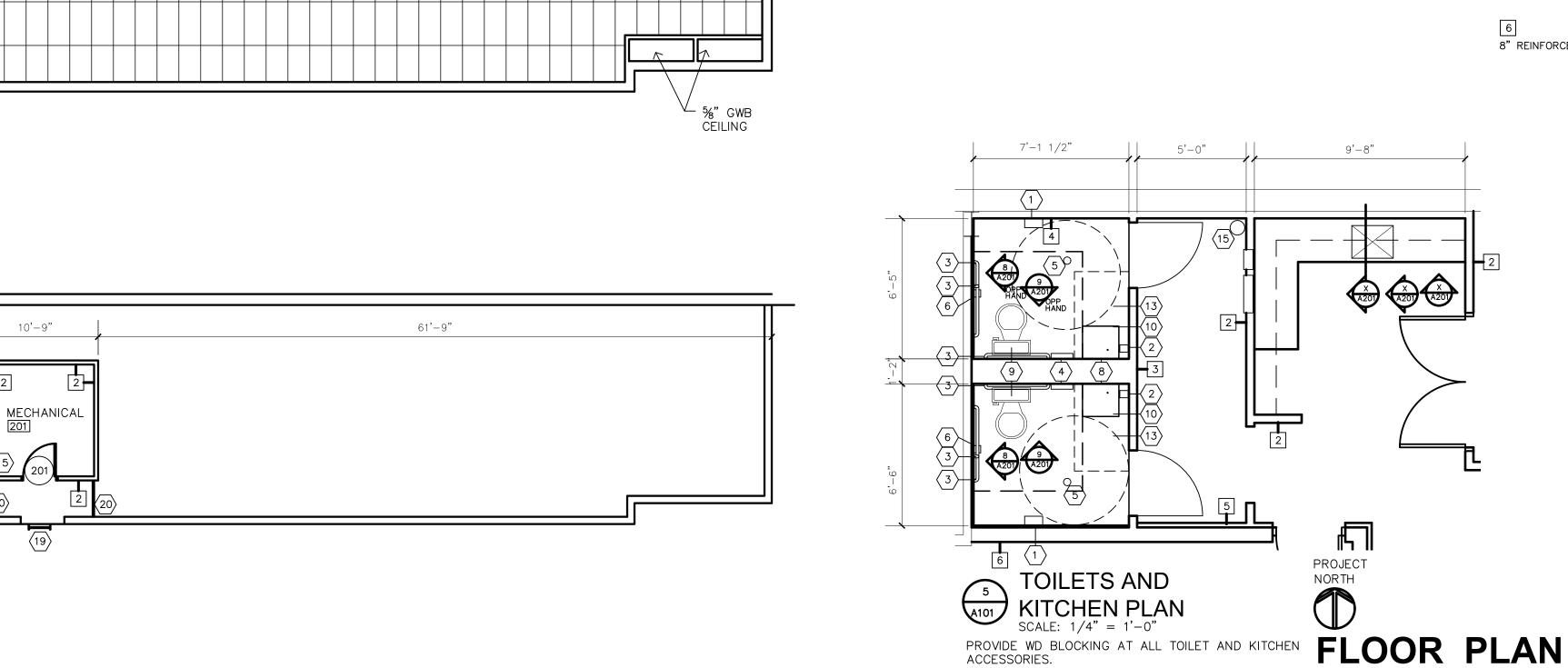
HALL [103]



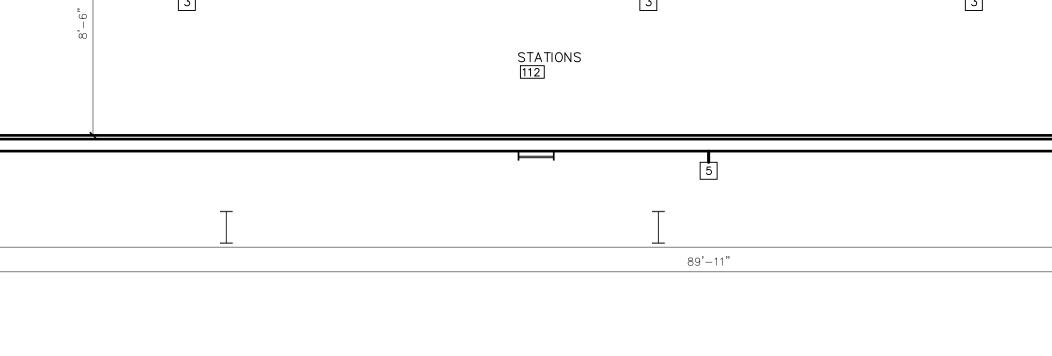
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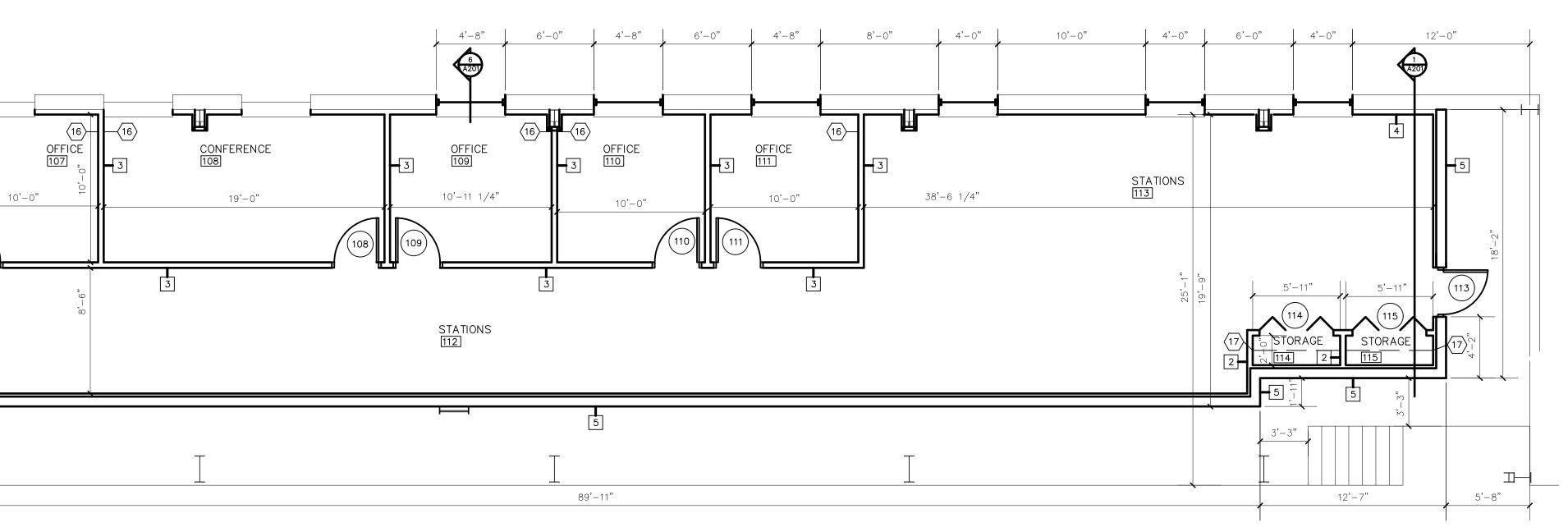


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CLIPS @ 16" OC





KEYNOTES 🐼

- ELECTRIC HAND DRYER
 SOAP DISPENSER
 GRAB BAR
 FEMININE NAPKIN DISPOSAL FLOOR DRAIN TOILET PAPER DISPENSER MOP HOLDER MIRROR TOILET
 LAVATORY

- 10. LAVATORY 11. SLOP SINK
- SLOP SINK
 ELECTRIC TANKLESS WATER HEATER
 SOUND ATTENUATION INSULATION ABOVE CEILING
 ELECTRIC PANEL
 2A: 10B WALL HUNG FIRE EXTINGUISHER
 ELEVENDE BACKING
- 16. PLYWOOD BACKING
- 17. ROD AND SHELF
 18. WOOD SHELVING: 5 HIGH, PAINTED
 19. SHIPS LADDER
 20. METAL RAILING

WALL TYPES

1

[‰]" GWB ON 6" METAL STUDS 16" O.C. W/ 5" ACOUSTICAL FIBERGLASS INSULATION W/ %" GWB. U419 1 HR RATING

- 5%" GWB ON 35%" METAL STUDS 16" O.C. W∕ 5%" GWB.

3

%" GWB ON 3%" METAL STUDS 16" O.C. W/ 3½" FIBERGLASS ACOUSTICAL INSUL W/ %" GWB.

4 % GWB ON VB ON 3 % 16 GA MTL STUD 16 OC WITH FIBERGLASS INSUL ON EXISTING CMU

5 % GWB ON 2" RESILIENT HAT CHANNEL WITH 2" RIGID INSULATION ON 8" REINFORCED CMU

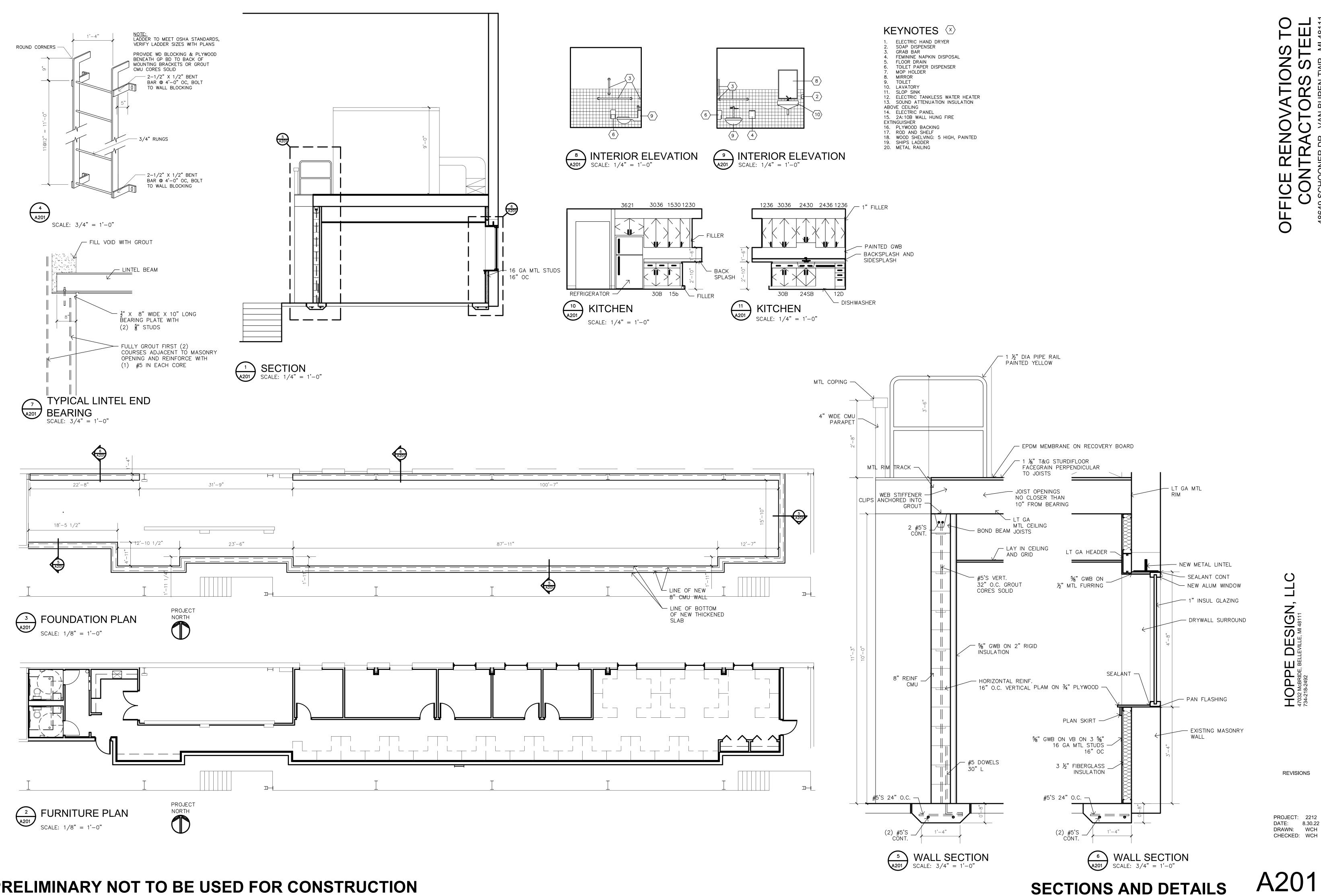
6 8" REINFORCED CMU



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S TO FEEL MI 48111 ATION: ORS ST ЧV Ζ BURE 0 R VAN \vdash RENO AC DR ЦК ЕR NO ICE 0 O S O <u>о</u> 864 4

			DOOR SCHEDULE				HARDWARE
	DOOR		FRAMES	S REMARKS			
	SIZES	MATERIAL S	MATERIAL S	DETAIL S	LATCH	LOCK HINGES	CLOSER KICK STOP
NO. 101 102 105 106 107 108 109 110 111	X X X X X X X X X X X X X X X X X X X	D STAINED D PAINTED .OW METAL PAINTED AINUM	OD STAINED OD PAINTED LLOW METAL PAINTED JMINUM	JETAIL S JAMB RELL BOOR AND FRAME FIRE RATING C C C C C C C C C C C C C C C C C C C	TY ENTRY	FOCK HINGES STOREROOM STOREROOM STOREROOM OFFICE ADAMS RITE OFFICE X X X X<	CTONER KICK RDLL LCN 4011_H_TBWMS PULL VERIFY HANDING HANDING HANDING HANDING 12"BRONZE 12"BRONZE 12"BRONZE 12"BRONZE 12"BRONZE 13"BRONZE 13"BRONZE 14016 13"BRONZE 13"BRONZE 14016 13"BRONZE 1411_H_TBWMS PUSH VERIFY 14016 18"BRONZE 18"BRONZE 18"BRONZE 18"BRONZE 18"BRONZE 18"BRONZE 18"BRONZE 18"BRONZE 101LL IVES 8100.0 11 PULL IVES 8100.0 1
113	XA	X	X		Х	XX	XXX
114	XB	Х	X			Х	Х
115	XB	Х	X			X	
			an a a a a an	ROOM FINISH S	CHEDULE	a a a an	
			WALLS			CEILING	
		FLOOR	BA SE	NORTH SOUTH EAS	T WEST	MATERIAL S	
		CARPET TILE VINYL TILE CERAMIC TILE PLYWOOD CARPET	 EXISTING TO REMAIN EPOXY FLOORING VINYL VINYL RUBBER CERAMIC BASE WO OD: PAINTED WO OD STAINED 		PAINT EXISTING BAINTED BPLASTIC LAMINATE CERAMIC TILE 4' HIGH		
		1 2 3 4 5			3 4 1 2 3 4	4 1 2 3 4	REMARKS
101 T	TOILET.	X	X	X X X X X	X X X	X 8'-4"	

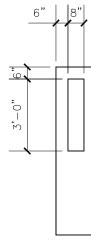
8'-4" 8'-4"

8'-4"

8-4"

8'-4"

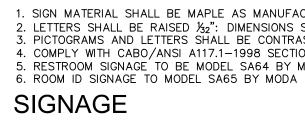
NO.	RM. NAME
101	TOILET
102	TOILET
103	HALL
104	KITCHEN
105	HALL
106	ELECTRICAL CLOSET
107	OFFICE
108	CONFERENCE
109	OFFICE
110	OFFICE
111	OFFICE
112	STATIONS
113	STATIONS
114	STORAGE
115	STORAGE

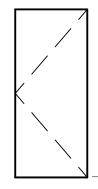


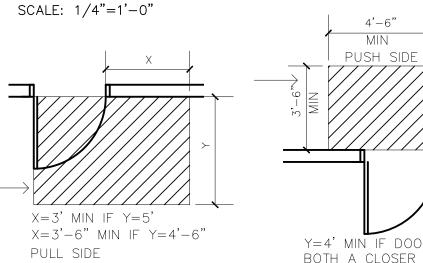
Α DOOR TYPES SCALE: 1/4" = 1'-0"ALL WINDOW GLAZING TO BE TEMPERED.

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

CYLINDER. BE 1" INSULATED GLASS. DOORS AND FRAMES.

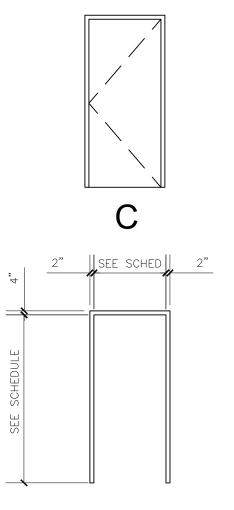
MAX GLASS SIZE. MAX GLASS SIZE.

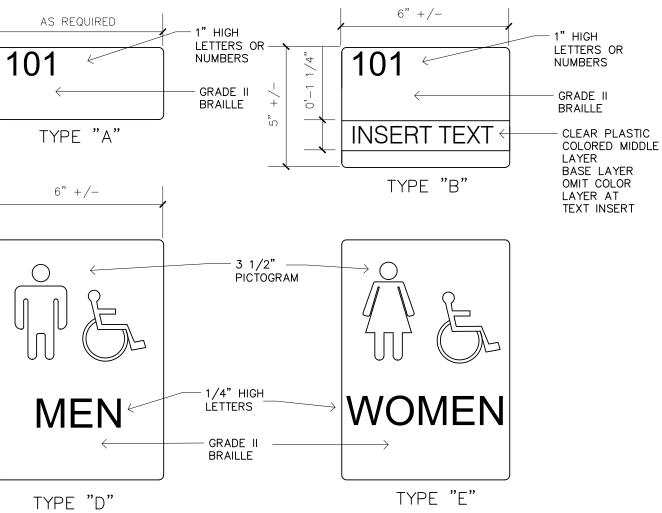
HARDWARE SET #1 CAPABILITY DEVICE- MATCH KEYING SYSTEM

NOTES

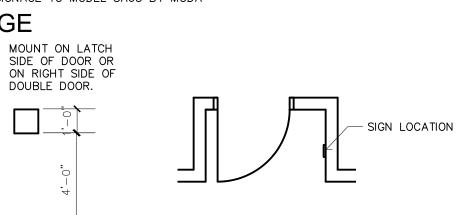
В

LITE @ DOORS W/ RATING AT 60 MIN OR GREATER 1. 4" X 24" LITE DIMENSION MAXIMUM 2. FIRE RESISTANCE RATED GLAZING TO BE D-H-W-240 CERAMIC GLAZING 3. TO BE LABELED BY INTERTEK OR UL



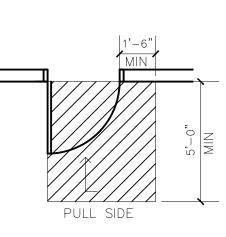


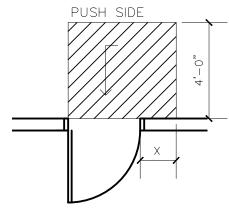
1. SIGN MATERIAL SHALL BE MAPLE AS MANUFACTURED AND SUPPLIED BY MODA: 248-306-0677. 2. LETTERS SHALL BE RAISED $\frac{1}{32}$ ": DIMENSIONS SHALL BE 7" H X 9.75" W. 3. PICTOGRAMS AND LETTERS SHALL BE CONTRASTING COLOR. 4. COMPLY WITH CABO/ANSI A117.1-1998 SECTION 703 SIGNAGE. 5. RESTROOM SIGNAGE TO BE MODEL SA64 BY MODA



SIGN MOUNTING LOCATION

The second secon Y=4' MIN IF DOOR HAS BOTH A CLOSER AND A





HINGE SIDE APPROACH

LATCH HINGE SIDE APPROACH

FRONT APPROACH

FRONT APPROACH

BARRIER FREE DOOR APPROACH

1. ALL HARDWARE @ ALUM DOORS BY ALUM DOOR SUPPLIER. HARDWARE BASED ON "KAWNEER"; MFG TO SUPPLY

- 2. ALUM DOOR HARDWARE SHALL MATCH DOOR FINISH. 3. ALUM DOORS AND DOOR FRAMES SHALL BE KAWNEER "HEAVY WALL" OR EQUAL, 0.188" WALL THICKNESS.
- 4. ALUM DOORS AND FRAMES SHALL BE GLAZED WITH TEMPERED GLASS.
- EXTERIOR DOORS AND FRAMES SHALL 5. ALL HM OR WOOD DOORS AND
- FRAMES SHALL BE GLAZED WITH TEMPERED GLASS, EXCEPT FIRE RATED
- 6. FIRE RATED DOORS AND FRAMES SHALL BE GLAZED WITH LABELED
- FIRE/SAFETY RATED GLASS TO MATCH FIRE RATING AND AS FOLLOWS: 20 & 45 MIN - 1296 SQ IN
 - 60 & 90 MIN 100 SQ IN
- 7. FIRE RATED DOORS TO HAVE
- STEEL BALL BEARING HINGES. 8. WOOD DOORS TO BE 13/4" THICK.

3 HINGES: HAGAR, BB1279 US26D 4 ½" X 4 ½" 1 CLOSER: LCN, RW-PA TB 689 ALUM 1 EXIT DEVICE: VON DUPRIN, 997SL-L-M-03-4-US26D 1 THRESHOLD: NATIONAL GUARD, 513 ALUM WEATHERSTRIP: NATIONAL GUARD, 190V 1 SWEEP: NATIONAL GUARD, 601A W/ ADJUSTING 1 CYLINDER: SAME AS MANUFACTURER OF EXIT

1. PROVIDE DENS SHIELD BOARD BEHIND ALL TILE APPLICATIONS. 2. PROVIDE WATER RESISTANT GREEN BOARD AT ALL BATHROOM APPLICATIONS.

SINGLE	DOORS	PAIRS (DF DOORS		
	INSIDE	INSIDE	INSIDE		
RIGHT HAND			DL LEFT HAND ACTIVE		
INSIDE	INSIDE	INSIDE	INSIDE		
			八		
RIGHT HAND REVERSE BEVEL	LHRB LEFT HAND REVERSE BEVEL	RIGHT HAND REVERSE BEVEL ACTIVE	DLHR LEFT HAND REVERSE BEVEL ACTIVE		

 \mathbf{O} DESIGN, LLEVILLE, MI 48111 HOPPE 47032 MCBRIDE, BEL

REVISIONS

PROJECT: 2212 DATE: 8.30.22 DRAWN: WCH CHECKED: WCH



SCHEDULES

MECHANICAL 🐼 **KEYNOTES**

MECHANICAL NOTES

LEGEND

—k/—	GATE VALVE
$-\infty$	GLOBE VALVE
δ	BALL VALVE
	CHECK VALVE
—Ķ—	2-WAY CONTROL VALVE
—ÿ—	3-WAY CONTROL VALVE
\$	LUBRICATED PLUG VALVE
_{&} MS	BAL. BALL VALVE W/ MEMORY STOP
k/	CIRCUIT SETTER
	PRESSURE REDUCING VALVE
<u>T</u> PT	PRESSURE TEMP. TEST PORT
Ŷ	PRESSURE GAUGE
Į	THERMOMETER
- 	EXPANSION JOINT W/ GUIDES
AV	AIR VENT
+	Y-STRAINER
	Y–STRAINER
	Y-STRAINER PIPE FLEXIBLE CONNECTOR
	Y-STRAINER PIPE FLEXIBLE CONNECTOR CONN. TO EXIST.
 /	Y-STRAINER PIPE FLEXIBLE CONNECTOR CONN. TO EXIST. DUCT FLEXIBLE CONNECTOR
	Y-STRAINER PIPE FLEXIBLE CONNECTOR CONN. TO EXIST. DUCT FLEXIBLE CONNECTOR EXIST. FIRE DAMPER
	Y-STRAINER PIPE FLEXIBLE CONNECTOR CONN. TO EXIST. DUCT FLEXIBLE CONNECTOR EXIST. FIRE DAMPER NEW FIRE DAMPER
	Y-STRAINER PIPE FLEXIBLE CONNECTOR CONN. TO EXIST. DUCT FLEXIBLE CONNECTOR EXIST. FIRE DAMPER NEW FIRE DAMPER EXIST. SMOKE DAMPER
	Y-STRAINER PIPE FLEXIBLE CONNECTOR CONN. TO EXIST. DUCT FLEXIBLE CONNECTOR EXIST. FIRE DAMPER NEW FIRE DAMPER EXIST. SMOKE DAMPER NEW SMOKE DAMPER EXIST. COMB. FIRE SMOKE

RETURN GRILLE

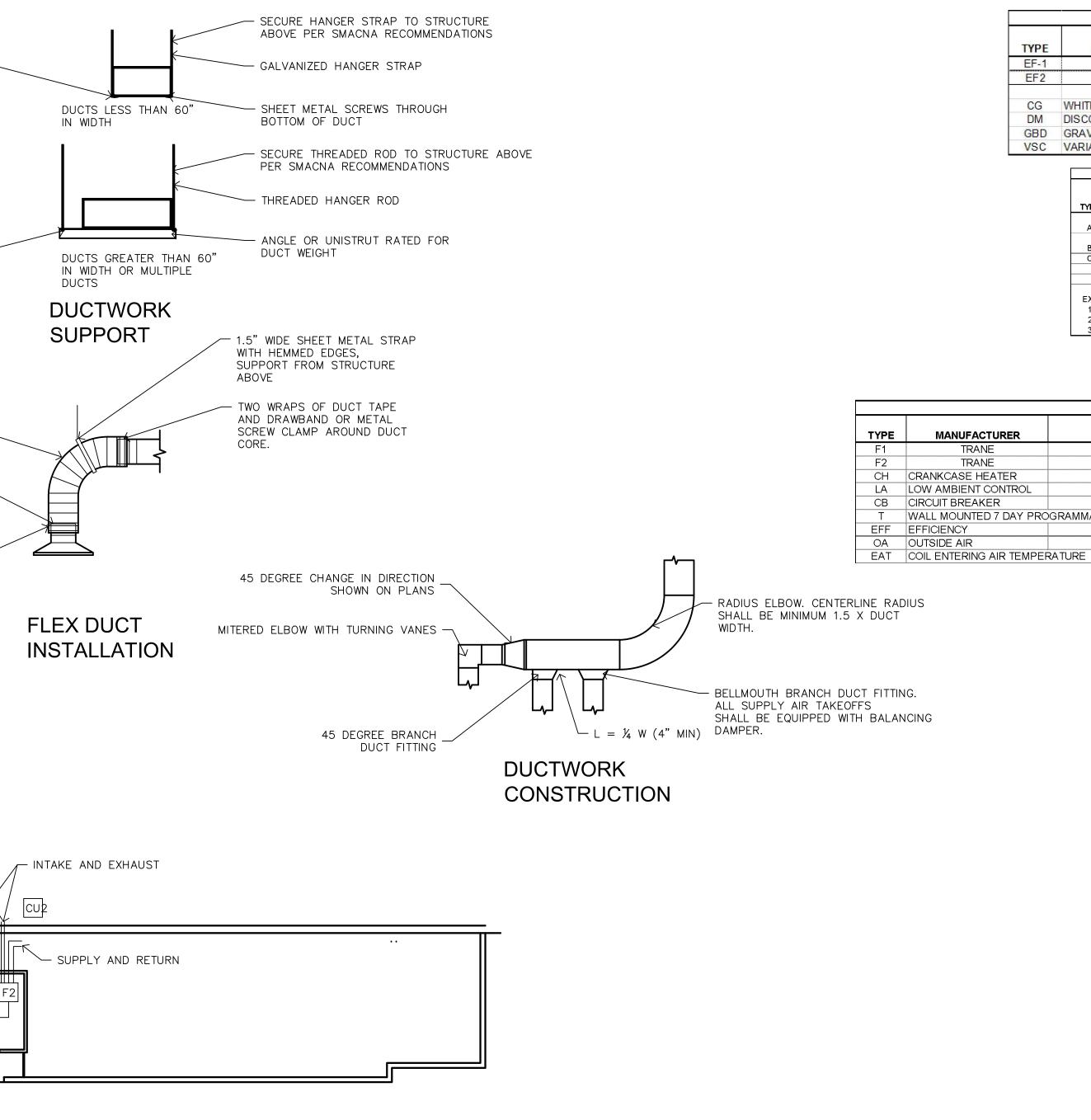
EXHAUST GRILLE

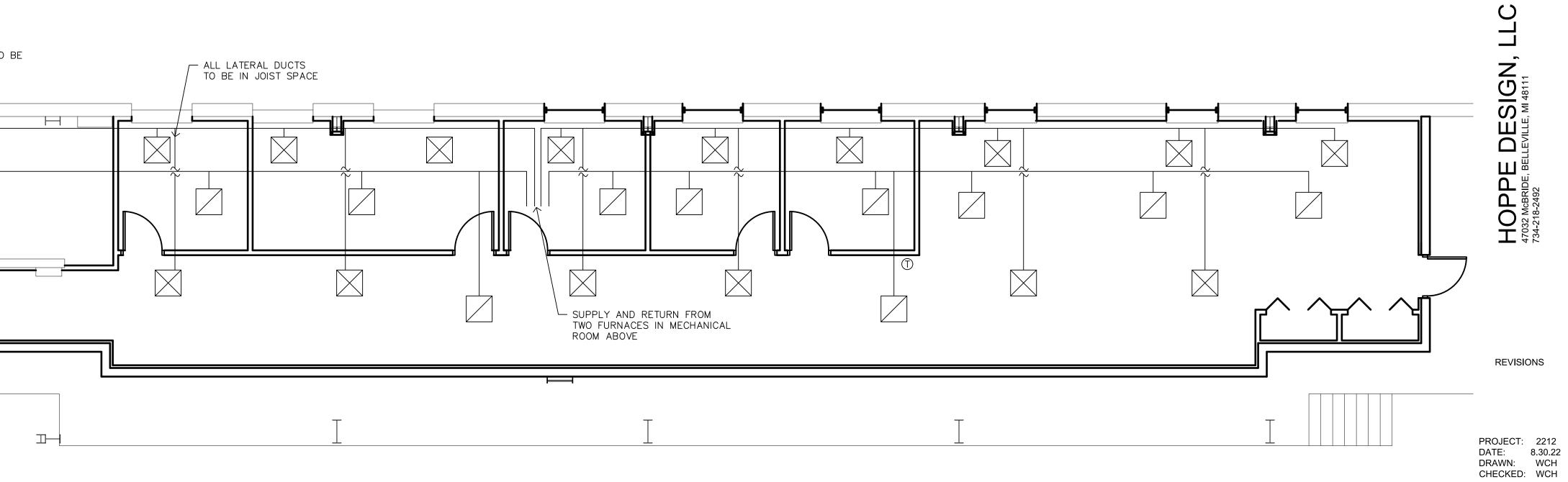
IVILCI IAINICAL INCI LO	
1. ALL WORK IS TO BE PROVIDED AND PERFORMED ACCORDING TO ALL STATE AND LOCAL CODES.	SHEET METAL SCREWS MAY BE OMITTED IF HANGER STRAPS ARE
2. ALL EXHAUST OUTLETS AND OUTSIDE AIR INLETS SHALL BE A MINIMUM OF 15' APART.	CONTINUOUS UNDER BOTTOM OF DUCT
 EQUIPMENT NOISE SHALL NOT EXCEED 55 DECIBELS AT THE LOT LINE. ALL DUCT WORK SHALL BE FABRICATED OF SHEET METAL AND IN ACCORDANCE WITH SMACNA STANDARDS. 	
5. ALL FLEX DUCT WORK SHALL BE THE INSULATED TYPE AND RUNS SHALL NOT EXCEED 6' MAXIMUM LENGTH. CONTRACTOR MAY USE FLEX DUCT TO CONNECT TO	
SUPPLY GRILLES. 6. PROVIDE MANUAL VOLUME DAMPER IN EACH BRANCH FOR BALANCING.	
7. PROVIDE FIRE DAMPER WHERE THE DUCT PENETRATES THROUGH FIRE WALL.	
 RUN CONDENSATE LINE TO THE NEAREST FLOOR DRAIN. CONTRACTOR TO FURNISH, LOCATE AND INSTALL THERMOSTAT FOR EACH ZONE. 	NUT AND WASHER AT BOTTOM OF ROD
10. INSTALL GAS PIPING, SIZES AS SHOWN.	
11. EXISTING GAS PRESSURE TO BE VERIFIED BY THE CONTRACTOR AND SIZE GAS PIPING ACCORDINGLY.	
12. DISCONNECT SWITCH SHALL BE PROVIDED WITH ALL UNITS.	
13. PIPE SIZES ARE BASED ON 1# PRESSURE, CONTRACTOR TO FIELD VERIFY EXISTING GAS PRESSURE. VERIFY GAS PIPE SIZES, RESIZE IF NECESSARY.	NG
14. CONTRACTOR TO PROVIDE GAS PRESSURE REGULATOR MAXITROL 325 SERIES FROM 1# DOWN TO 7" TO CONNECT GAS INLET OF HVAC UNITS OR AS RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT.	
15. CONTRACTOR SHALL ADD CAPACITY REQUIRED FOR ANY APPLIANCES.	MAXIMUM DUCT LENGTH SHALL
16. MECHANICAL CONTRACTOR TO SIZE ALL DUCTWORK AND EQUIPMENT RELATED TO NEW HVAC SYSTEM TO PROVIDE COMPLETE SYSTEM THAT IS IN COMPLIANCE WITH ALL CODES AND REGULATIONS.	
17. MECHANICAL DRAWINGS ARE SCHEMATIC ONLY. HVAC CONTRACTOR IS RESPONSIBI TO LOCATE PATH OF NEW DUCTWORK TO OPTIMIZE SUPPLY AND RETURN.	LE EXTENSION DUCT COLLAR —
18 THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE NEW ROOM	
TEMPERATURE SENSORS AND ALL NEW CONNECTIONS TO THE THERMOSTATS. 19 PROVIDE DUCT DETECTORS AS REQUIRED BY CODE	TWO WRAPS OF DUCT TAPE AND DRAWBAND OR METAL
	SCREW CLAMP AROUND DUCT CORE.
	SUPPLY AND RETURN
	SUPPLY AND RETURN
(1) HVAC PLAN SCALE: 3/32" = 1'-0" (1) RETURN TRUE	SUPPLY AND RETURN
1HVAC PLAN SCALE: 3/32" = 1'-0"Image: scale blackRETURN TRUE LAID ON TOP OF	NK TO BE
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HVAC PLAN SCALE: 3/32" = 1'-0" TRUN TRUN	NK TO BE
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M101
\end{array}
HVAC PLAN
SCALE: 3/16" = 1'-0"$ NORTH





			EXHA	USIFAN	SCHEDULE	1			1		
TYPE	MA	ANUFACTURER	CATALOG NO.	CFM	EST E.S.	and an and a second as	LTS/ ASE I	MOTOR		ACCESS	ORIES
EF-1		COOK	GC144	150	0.5	12	0/1	98W	DM,	GBD, C	CG, RC, H⊧
EF2		COOK	GC75	75		12	0/1		D	M, GBD	, <mark>CB, HK</mark>
CG	WHITE A	LUMINUM CEILING	GRILLE	GK	GREASE T	ERMINATI	ON KIT		_		
DM	DISCON	NECT MEANS		HB	HINGED BA	SE					
GBD	GRAVIT	Y BACKDRAFT DAM	PER	RC	18" INSULA	the second second second	F CURB				
VSC	VARIAB	LE SPEED CONTRO	LER	HK HANGING KIT WITH VIBRATION INSULATOR							
	TYPE	MANUFACTURER	CATALOG NO.	APP	FINISH	FRAME TYPE	VOLUME DAMPER	MAX NC (DB)	THROW (FT)	THROW (FT)	MAX PRESS DROP
	A	TITUS		SUP	WHITE	T-BAR/ FLANGE	YES	30	8	24	0.1
	в	TITUS		RET	WHITE	T-BAR/ FLANGE	NO	30	-	-	0.1
	С	TITUS		SUP	WHITE	FLANGE	NO	30	23	60	0.1
	EXH	EXHAUST		RET			<u></u>	SUP	SUPPLY		

	SPLIT SYSTEM	/I SCHEDU	ILE							
			BLO\	NER		HEATER	ELE	ECTRIC/	4L	
TURER	CATOLOG NUMBER	CFM	OA CFM	*E.S.P.	HP	MBH/EFF	VOLT/PH			
E	TUHMD120ACV5VA	2000	300	0.5	1	120	120/1			
E	TUHMD120ACV5VA	2000	300	0.5	1	120	120/1			
ATER										
CONTROL										
ER										
7 DAY PRC	GRAMMABLE THERMOSTAT									
AIR TEMPER	RATIIRE							[]	1	

	EVA	PORATO	R/ CONDE	N SING UN	IT	53	
2		COOLI	COOLING EAT CLG CAPCITY		ITY CONDENSING UN		
TYPE	MANUFACTURER	DB	WB	SENS	TOTAL	MODEL NUMBER	VOLT/PH
CU1	TRANE					4TTVOX36A1000A	208/230/1
CU2	TRANE					4TTVOX36A1000A	208/230/1
CH	CRANKCASE HEATER						
LA	LOW AMBIENT CONTROL						
CB	CIRCUIT BREAKER						
Т	WALL MOUNTED 7 DAY PRO	GRAMMA	BLE THER	MOSTAT			
EFF	EFFICIENCY						
OA	OUTSIDE AIR						
EAT	COIL ENTERING AIR TEMPER	ATURE					
EST	DOES NOT INCLUDE FILTER	LOSS					

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M101



LEGEND

- GLOBE VALVE
- —___^ठ—___ BALL VALVE

- <u>____</u>BAL. BALL VALVE W∕ MEMORY STOP
- → CIRCUIT SETTER
- VALVE
- ______ PT____ PRESSURE TEMP. TEST PORT
- PRESSURE GAUGE
- ----- EXPANSION JOINT W/ GUIDES

_____AV_____AIR_VENT

- PIPE FLEXIBLE CONNECTOR
- DUCT FLEXIBLE CONNECTOR
- ───── EXIST. FIRE DAMPER
- NEW FIRE DAMPER
- ───── EXIST. SMOKE DAMPER

- ─── NEW COMB. FIRE/SMOKE

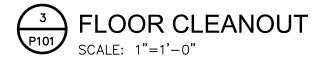
SUPPLY DIFFUSER

- RETURN GRILLE
- \square EXHAUST GRILLE

DMPR

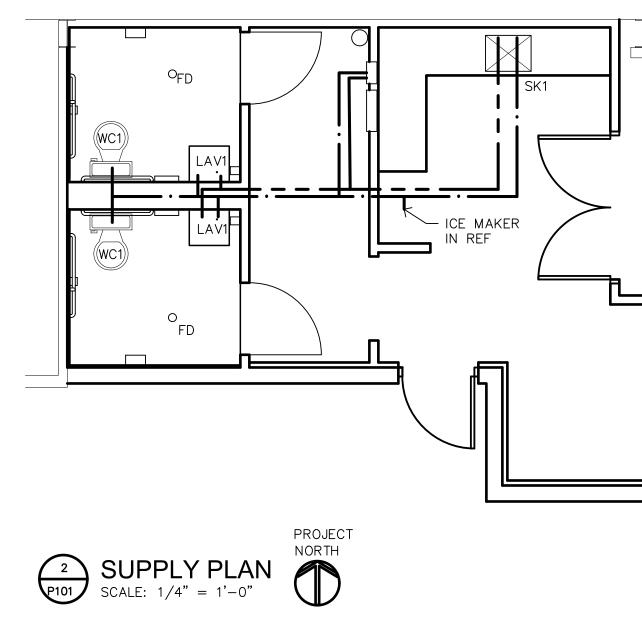
MARK CFM

- FINISHED FLOOR — ADJUSTABLE HOUSING - WASTE LINE LENGTH TO SUIT - WASTE LINE



PRELIMINARY NOT TO BE USED FOR CONSTRUCTION **VERIFY ALL DIMENSIONS IN FIELD**

TAG	MFR	MODEL NAME AND DESCRIPTION	FITTINGS	FLOW	W SFU'S	DFU'S	MIN PIPE CONNECTION SIZES			SIZES	REMARKS	COLOR
TAG	WITK	MODEL NAME AND DESCRIPTION	rii finga	TLOW	C H		W	V	CW	HW	REMARKS	
WC1	KOHLER	BATTERY SENSOR FLUSH VALVE WITH OVER-RIDE, WHITE OPEN FRONT	K-7531 EXPOSED HYBRID TOUCHLESS BATTERY POWERED FLUSH VALVE	1.28 GPF	10	4	4"	2"	1"	-	BARRIER FREE COMPLIANT; EXPOSED TOP SPUD CONNECTION; ZURN Z1201 SERIES CLOSET CARRIER, 500 LB SEAT CAPACITY	WHITE
SK-1	ELKAY		K-15571 FAUCET, LK-35 STRAINER, CR-19 STOPS AND SUPPLIES, 17 GA C.P. P. TRAP								3 FAUCET HOLES	
LAV1	KOHLER		K-13460 TOUCHLESS FAUCET, CR- 19 STOPS, AND SUPPLIES, OFFSET GRID DRAIN, 17 GA C.P. P- TRAP		1.5 1.5	1	1 1/2"	1 1/2"	1/2"	1/2"	BARRIER FREE COMPLIANT; BARRIER FREE TRAP, TRUEBRO LAV GUARD HW INSUL. KIT; SOLID BRASS FAUCET; Z1231 LAV CARRIER WITH UPRIGHTS	WHITE
CO	ZURN	Z415-SZ1		41 #1					2	2		
FD-1	ZURN	Z415-BZ	5" DIA. N.B. STRAINER									
GARB AGE DISPO												
SAL	ISE	PR0-333									1/HP, 120/1/60	



WATER HEATER B TANKLESS ELECTRIC WATER HEATER RHEEM RTEX-06, 1 GPM AT 37 DEGREES TEMPERATURE RISE, 220V/6KW/25A/10AWG ½"NPT

PLUMBING NOTES

- 1. PLUMBING CONTRACTOR RESPONSIBLE TO SIZE ALL WASTE, SUPPLY, VENTS, DRAINS, TRAPS, ETC TO PROVIDE COMPLETE SYSTEM THAT IS IN COMPLIANCE WITH ALL CODES AND REGULATIONS.
- 2. THE PLUMBING DRAWINGS ARE SCHEMATIC ONLY. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE FINAL LAYOUT AND ROUTING OF PIPING. 3. NO PLUMBING PIPING SHALL BE ROUTED OVER ELECTRICAL
- PANELS. 4. PLUMBING CONTRACTOR SHALL CONTACT THE SERVICE PROVIDER
- AND ARRANGE FOR NEW GAS SERVICE CONNECTION. 5. PLUMBING CONTRACTOR SHALL CONTACT THE MUNICIPAL
- AUTHORITY TO ARRANGE FOR NEW WATER SERVICE CONNECTION. 6. PROVIDE CLEANOUTS AT THE BASE OF ALL BASE STACKS, CHANGES IN DIRECTION GREATER THAN 45 DEGREES, AND 50 FEET ON CENTER FOR STRAIGHT RUNS.
- ALL PLUMBING SHALL COMPLY WITH BARRIER FREE REQUIREMENTS.

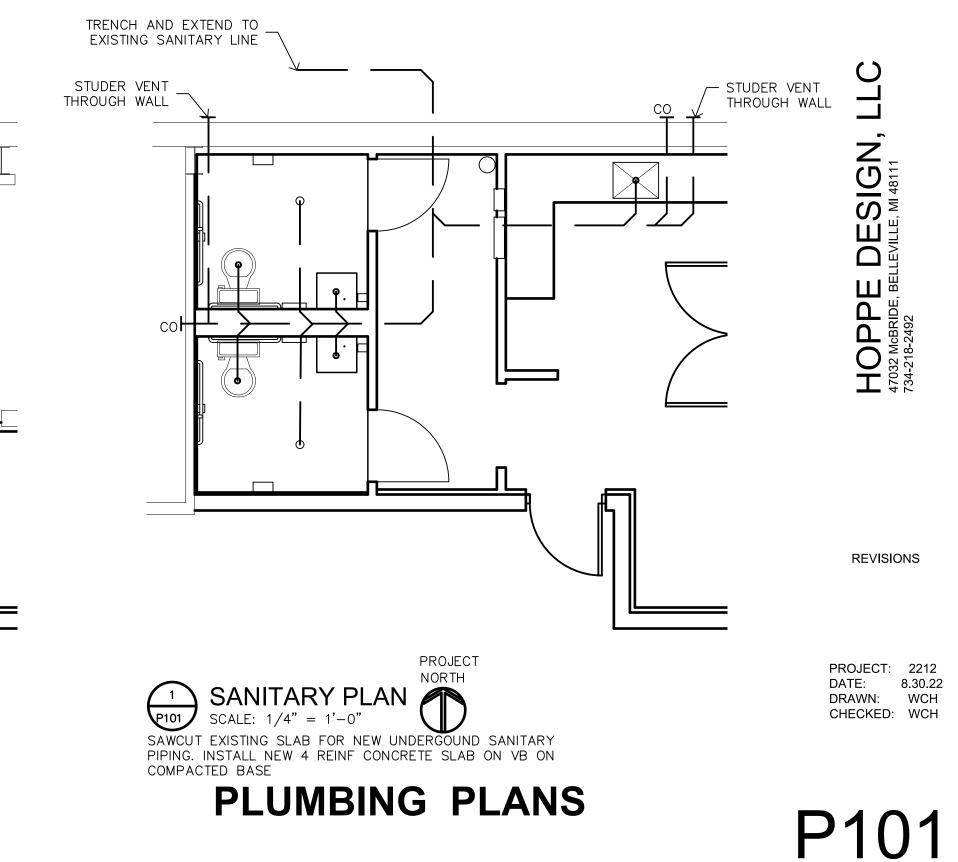
AND INDIRECT WASTEWATER CONNECTIONS.

- 8. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS. 9. WRAP ALL WATER PIPING WITH INSULATED PIPE WRAP.
- 10. ALL LAMBS TONGUE DISCHARGE TO BE 36" ABOVE ADJACENT GRADE. 11. PLUMBING CONTRACTOR TO VERIFY MICHIGAN PLUMBING CODE AND COUNTY HEALTH DEPARTMENT REQUIREMENT FOR BACKFLOW PREVENTERS, CHECK VALVES, VACUUM BREAKERS,

PLUMBING PIPING REQUIREMENTS

	HW	CW	WASTE
WATER CLOSET TANK	_	$\frac{1}{2}$ "	3"
WATER CLOSET FLUSH VALVE	_	ī"	3"-4"
URINALS	_	<u>3</u> " 4	2"
SERVICE SINK	<u>3</u> " 4	<u>3</u> " 4	3"
ELECTRIC WATER COOLER	_	$\frac{1}{2}$	1 <u>1</u> "
WASH BASIN	<u>3</u> "	<u>3</u> "	$1 \frac{1}{2}$ "
SINKS/LAVATORIES	$\frac{1}{2}$ "	$\frac{1}{2}$	$1 \frac{1}{2}$ "
SHOWER STALLS	<u>3</u> "	<u>3</u> "	3"
FLOOR DRAIN	·	·	3"

NOTE: PIPE SIZES SHOWN ARE MINIMUM STANDARD. PC SHALL VERIFY VARIANCES ON PLAN.





1. OCCUPANCY SENSOR EQUAL TO WATTSTOPPER ST-200

LEGEND

- S SWITCH ON RHEOSTAT
- S THREE WAY SWITCH
- S SWITCH WITH PILOT
- S SWITCH
- SPECIAL OUTLET
- **—** DUPLEX OUTLET
- QUAD OUTLET

WEATHERPROOF OUTLET

- GROUND FAULT
- TELEPHONE/ COMPUTER
- SMOKE DETECTOR
- TELEVISION/ CABLE

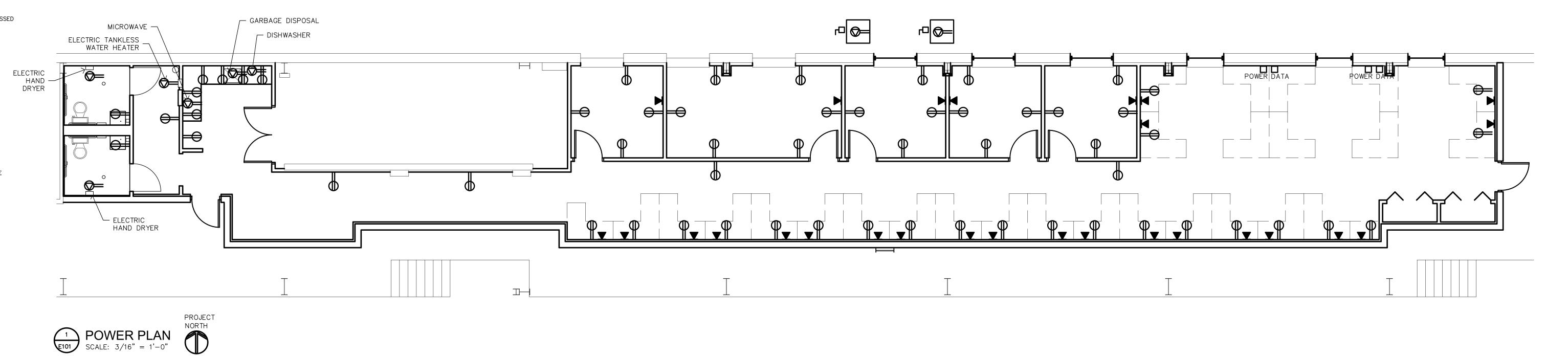
- CEILING MOUNTED LIGHT FIXTURE RECESSED WALL MOUNTED
- 6 MOTOR, ONE PHASE

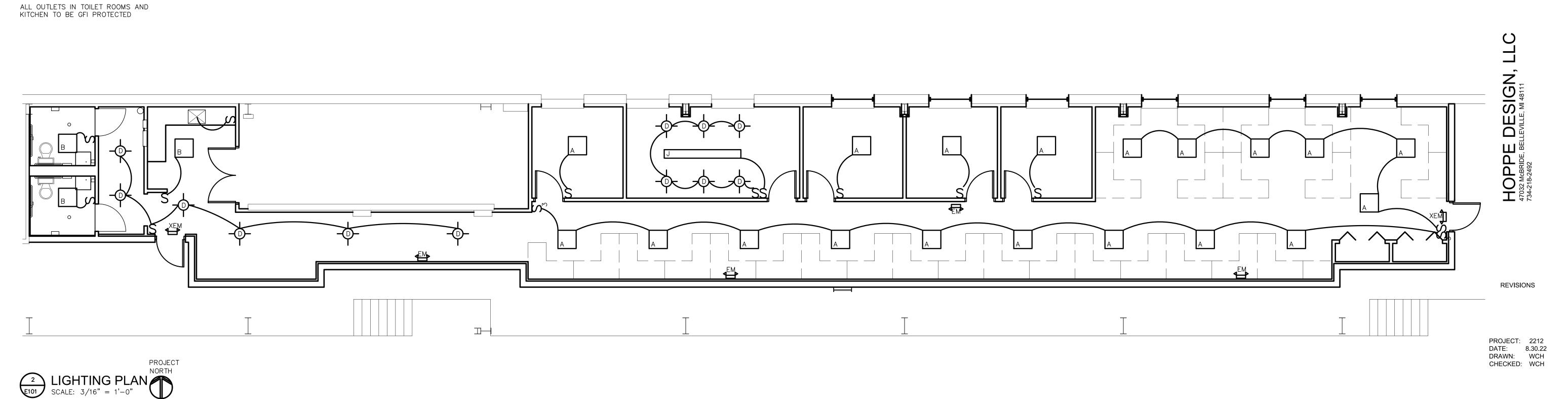
abla ground mntd ext. Lighting

2x4 LAY IN LIGHT FIXTURE

- 1 X 4 LIGHT FIXTURE
- O PENDANT MOUNTED OVERSIZED FIXTURE
- EXIT SIGN
- EXIT SIGN/ EMERGENCY LIGHT
- FIRE ALARM PS PULL STATION
- HORN/ STROBE COMPUTER JACK
- RATE OF RISE HEAT DETECTOR
- DISCONNECT SWITCH
- DISCONNECT SWITCH WITH FUSE
- AUDIO JUNCTION BOX-PRE-WIRE PER DIRECTION OF OWNER

-		LIGHT FIXTURE SC	HEDULE			
TYPE	MANUFACTURER	CATOLOG NUMBER	LAMPS	NO-WATTS	MOUNTED	REMARKS
Α	LITHONIA	2BLT2BA4 EZ1 ADSM 40L	LED	120	LAYIN	LP835 82CRI, 3500K 2'X2'
					SUSPENDE	
					D, LAYIN,	
В	LITHONIA	EPANL 2X2 3400 LMHE 80 CRI 35K MIN1	LED		SURFACE	POLYCARBONATE LENS
С	LITHONIA	LDN6 35 10 LW6 AR LSS MVOLT EZ1	LED	10.44-120	RECESSED	
D	LITHONIA	6JBK ADJ 30K 90CRI MW	LED	10.8-120	RECESSED	
Е	BRUCK	MAGNUM 2 CHROME 1100 CRI 98 3000K	LED	11.9-120	SURFACE	
EM	LITHONIA	ELM4L 120V/3.15W/.032AMPS				
XEM	LITHONIA	ECRGHO RD M6 120V/2.8W/.05AMPS 3.6V BATTERY				
F	LITHONIA	WF8 LED 30K MVOLT 9OCRI MW				
G	LITHONIA	WPX1 LED P2 40K MVOLT DDBXD M4				
Н	LITHONIA	EPANL 1X4 3000LM 80CRI 35K MCOLT E10WCP 1X4SMKSH				
J	EATON	DSI-WS-2L35-LD2-1D-UNV-AC-T9-STD-SW-W	LED		PENDANT	





PRELIMINARY NOT TO BE USED FOR CONSTRUCTION **VERIFY ALL DIMENSIONS IN FIELD**

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