SAGINAW CHILDREN'S ZOO CENTRAL RESTROOM & CONCESSIONS AND NORTH TOILET ROOM ADDITION SAGINAW, MICHIGAN

BUILDING DATA

- 1. OCCUPANCY CLASSIFICATION: <u>USE GROUP</u> <u>SQUARE FEET</u>
- TYPE OF CONSTRUCTION: 5B TABLE 601-FIRE RESISTANCE RATING FOR BUILDING ELEMENTS: 0 HOURS

1,150 SF

- 3. BUILDING AREA/HEIGHT: <u>CODE REQ'D</u> BUILDING AREA: 9,000 SF 1,150 SF BUILDING HEIGHT: 50 FT 20 FT STORIES: 2 1
- 4. CODES 2015 MICHIGAN BUILDING 2015 MICHIGAN MECHANICAL 2018 MICHIGAN PLUMBING 2017 NATIONAL ELECTRICAL CODE MICHIGAN BARRIER FREE, ANSI 117.1-2009
- 5. FIRE PROTECTION: NOT SPRINKLED
- 6. SPACES REQUIRING RATED WALLS: NONE
- 7. OCCUPANT LOAD: <u>USE</u> <u>CALCULATION</u> BUSINESS (1.150) 1/100 GROSS = 11.5
- 8.EGRESS:REQUIREDPROVIDEDTRAVEL DISTANCE:200' MAX20'
- 9. PLUMBING FIXTURES FOR OCCUPANCY LOAD OF 100 PER MPC TABLE 403.1

		<u>REQUIRED</u>	PROVIDED
	MEN - WATER CLOSETS	0	3
	LAVATORIES	0	3
	WOMEN - WATER CLOSETS	0	3
	LAVATORIES	0	2
	FAMILY - WATER CLOSETS	0	2
	LAVATORIES	0	2
	SERVICE SINK	0	1
	DRINKING FOUNTAIN	0	1
10.	DESIGN LOADS PER CHAPTER 16 2015 M	ICHIGAN BUILDIN	NG CODE
	FLOOR LIVE LOAD	100 PSF	
	FLOOR DEAD LOAD (ESTIMATED)	85 PSF	
	ROOF LIVE LOAD	35 PSF	
	ROOF SNOW LOAD	30 PSF	
	ROOF DEAD LOAD	25 PSF	
	WIND LOAD:		
	EXPOSURE CATEGORY	"C"	
	WIND SPEED	115 MPH	
	WIND DESIGN PRESSURE:		
	WINDWARD	21.93 PSF	
	LEEWARD	17015 PSF	
	LATERAL FORCE RESISTANCE		
	SYSTEM	WALL BRACING	3

GENERAL NOTES

THE CONTRACTOR SHALL CALL "MISS DIG", TELEPHONE 811, A MINIMUM OF 3 WORKING DAYS PRIOR TO STARTING ANY CONSTRUCTION ON THIS PROJECT. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" SYSTEM.

THE EXISTING UTILITIES ON THESE DRAWINGS HAVE BEEN SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION AND SHALL NOTIFY THE ENGINEER AS TO WHERE POSSIBLE CONFLICT EXISTS.

ALL PRODUCTS SHALL BE MANUFACTURER'S BEST BRAND OR GRADE AND INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.

ALL WORK SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR FROM THE DATE OF FINAL PAYMENT.

CONSTRUCT ALL MATERIALS STRAIGHT, PLUMB, AND LEVEL UNLESS SPECIFICALLY NOTED OR INDICATED OTHERWISE.

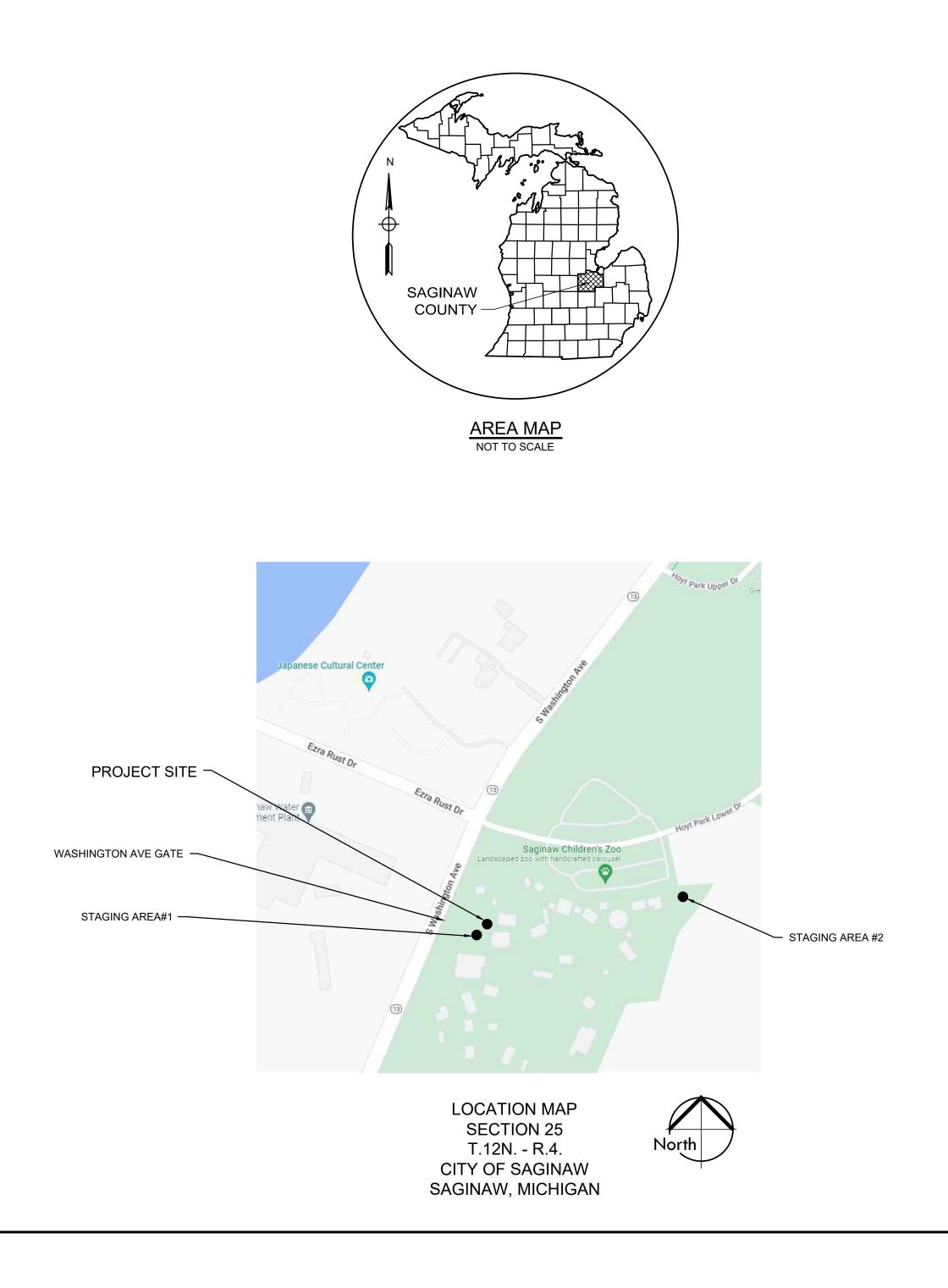
ALL WORK SHALL BE INSTALLED IN CONFORMANCE WITH FEDERAL, STATE, AND LOCAL - CODES, RULES, AND REGULATIONS.

ALL MATERIALS SHALL BE INSTALLED IN CONFORMANCE WITH INDUSTRY STANDARDS AND THE ASSOCIATION THAT PERTAINS TO THE PARTICULAR PRODUCT. FOR EXAMPLE, AISC - AMERICAN INSTITUTE FOR STEEL CONSTRUCTION. USE THE MOST CURRENT EDITION WHEN REFERRING TO INDUSTRY STANDARDS.

SITE PROTECTION: THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING ANY AND ALL ADJACENT EXISTING STRUCTURES AND UTILITIES DURING CONSTRUCTION. ANY DAMAGE INCURRED DURING CONSTRUCTION SHALL, AT A MINIMUM, BE RESTORED TO A STATE EQUAL TO ITS PRE-CONSTRUCTION STATE AT THE CONTRACTORS EXPENSE.

SITE RESTORATION: ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED ON THE PLANS AND IN ACCORDANCE WITH THE SPECIFICATIONS. ALL SEEDED AREAS SHALL RECEIVE A MINIMUM OF 3 INCHES OF TOPSOIL UNLESS OTHERWISE NOTED. THE RESTORED AREAS SHALL BE MAINTAINED UNTIL VEGETATION IS WELL ESTABLISHED. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT WILL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. OWNER: SAGINAW ZOOLOGICAL SOCIETY SAGINAW CHILDREN'S ZOO 1730 S. WASHINGTON AVE SAGINAW, MI 48601

CONTACT: GARY HOCHTHANNER DIRECTOR OF PHYSICAL PLANT & FACILITIES PLANNING (989) 759-1408 X130



FILE NO.	DESCRIPTION	DWG #	SH
DA-1431- 1	COVER SHEET	T1.0	1
DA-1431- 2	REFERENCE SHEET	T2.0	2
DA-1431- 3	NOTES	C1	3
DA-1431- 4	OVERALL PLAN	C2	4
DA-1431- 5	DEMOLITION PLAN	C3	5
DA-1431- 6	GRADING PLAN	C4	6
DA-1431- 7	UTILITY PLAN	C5	7
DA-1431- 8	SOIL EROSION PLAN	C6	8
DA-1431- 9	SITE DETAILS	C7	9
DA-1431- 10	CITY OF SAGINAW DETAILS	C8	1(
DA-1431- 11	ARCHITECTURAL SITE PLAN	A0.0	1 ⁻
DA-1431- 12	DONOR GARDEN DETAILS & ELEVATIONS	A0.1	12
DA-1431- 13	DONOR GARDEN DETAILS	A0.2	1:
DA-1431- 14	FLOOR PLAN & ENLARGED PLANS	A1.0	14
DA-1431- 15	N&S EXTERIOR ELEVATIONS & DETAILS	A3.0	1:
DA-1431- 16	E&W EXTERIOR ELEVATIONS & DETAILS	A3.1	16
DA-1431- 17	ROOF PLAN & DETAILS	A4.0	17
DA-1431- 18	BUILDING SECTIONS	A5.0	18
DA-1431- 19	BUILDING & WALL SECTIONS	A6.0	19
DA-1431- 20	WALL SECTIONS	A6.1	20
DA-1431- 21	WALL SECTIONS & DETAILS	A6.2	2
DA-1431- 22	INTERIOR ELEVATIONS	A7.0	22
DA-1431- 23	REFLECTED CEILING PLAN	A8.0	23
DA-1431- 24	DOOR & WINDOW SCHEDULES	A9.0	24
DA-1431- 25	NORTH TOILET ADDITION FOUNDATION & FLOOR PLANS	A10.0	25
DA-1431- 26	NORTH TOILET ADDITION ELEVATIONS	A11.0	20
DA-1431- 27	NORTH TOILET ADDITION SECTIONS & DETAILS	A12.0	27
DA-1431- 28	FOUNDATION PLAN & DETAILS	S1.0	28
DA-1431- 29	STEEL FRAMING PLAN & DETAILS	S2.0	29
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ALL SITE, STRUCTURAL, ARCHITECTURAL,

ELECTRICAL, MECHANICAL AND PLUMBING ELEMENTS RELATED TO THE CONSTRUCTION OF THE NORTH TOILET ROOM ADDITION SHALL BE ITEMIZED AS A SEPARATE LINE ITEM ON THE BID FORM

> DWM
> ISSUE FOR CLIENT REVIEW
> 9/16/22
>
>
> BY
> MARK
> REVISIONS
> DATE
>
>
> THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.

> > CENTRAL RESTROOM & CONCESSIONS SAGINAW CHILDREN'S ZOO

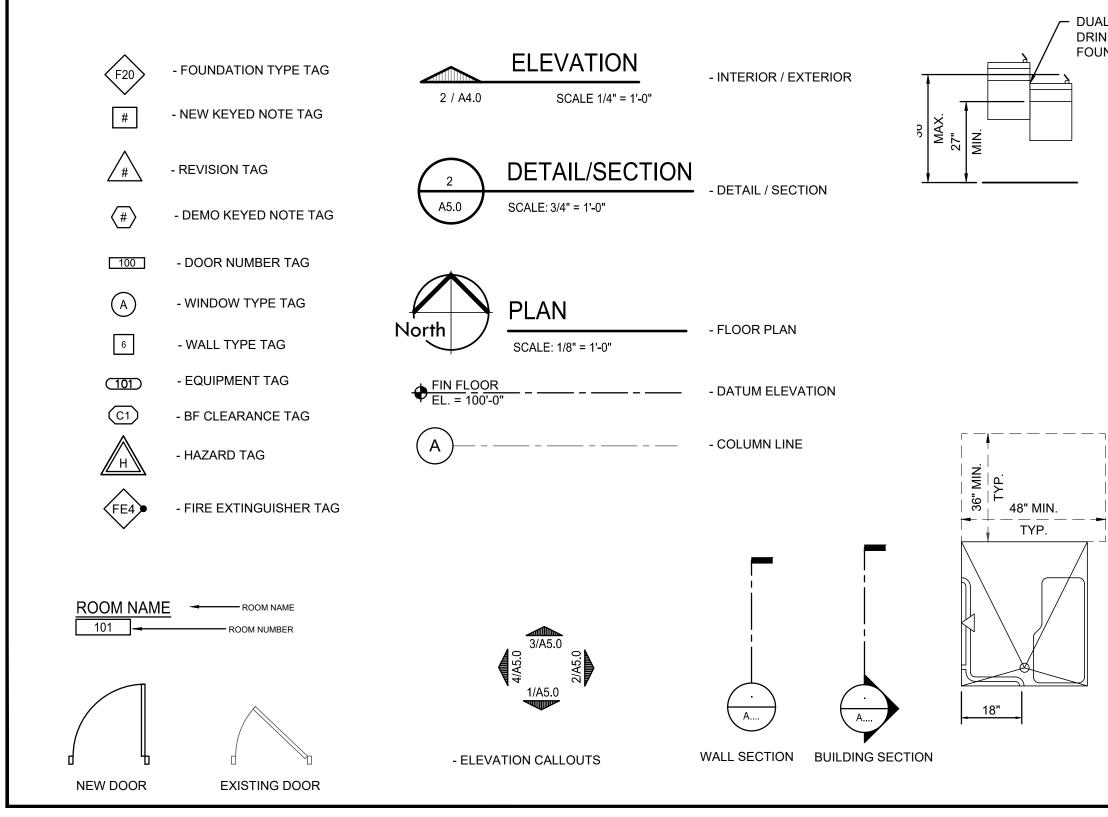
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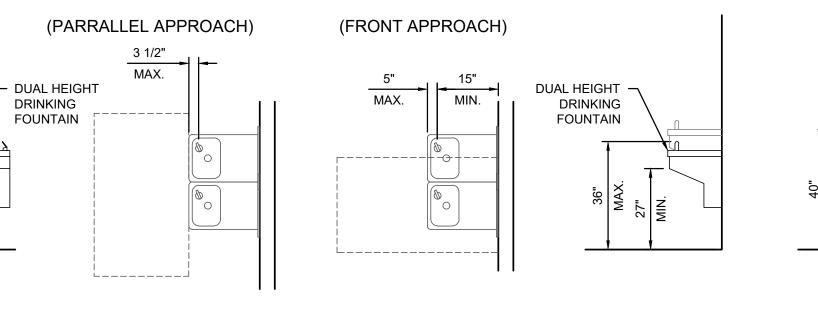
	SAGINAW OFFI 230 S. Washingt Saginaw, MI 486 989-754-4717 Fa 989-754-4440 www.SpicerGrou	on Ave. 607 Tel. ix.	
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DATE NOVEMBER 2, 2022 SCALE NONE	FILE NO. DA-143	1 -01	1.0

AC	AIR CONDITIONING	CSK	COUNTERSUNK	GC	GENERAL CONTRACTOR
ACOUST	ACOUSTICAL	СТ	CERAMIC TILE	GL	GLASS
ACT	ACOUSTICAL CEILING TILE	CU	CONDENSING UNIT	GLZD/GLZ	
ADA	AMERICANS WITH DISABILITIES ACT	CUH	CABINET UNIT HEATER	G	GLAZED/GLAZING
ADJ	ADJUSTABLE	DAMPG	DAMPROOFING	GRAV	GRAVEL
AFF	ABOVE FINISHED FLOOR	DEG / °	DEGREE	GRV	GRAVITY ROOF VENT
AGG	AGGREGATE	DEG	DEMOLITION	GYP	GYPSUM
		DEMO		HB	HOSE BIB
AL				HDCP	HANDICAP
ALT	ALTERNATE	DIA	DIAMETER	HDR CO	HEADER COURSE
ANCH	ANCHOR	DIM	DIMENSION	HDWR	HARDWIRE
ANGL / Z		DIV	DIVISION	HGT/HT	HEIGHT
APPROX		DP	DEPTH/DEEP	НМ	HOLLOW METAL
ARCH	ARCHITECT (URAL)	DR	DOOR	HORZ	HORIZONTAL
ASPH	ASPHALT	DS	DOWNSPOUT	HP	HIGH POINT
AV	AUDIO/VISUAL	DTL	DETAIL	HR	HOUR
BB	BACK TO BACK	DWG	DRAWING	HVAC	HEATING, VENTILATION, AIR
BD	BOARD	DWL	DOWEL	HVAC	CONDITIONING
BF	BARRIER FREE	EF	EXHAUST FAN	ID	INSIDE DIAMETER
BIT	BITUMINOUS	EIFS	EXTERIOR INSULATED FINISH SYSTEM	IN	INCH
BLDG	BUILDING	EJ	EXPANSION JOINT	INCL	INCLUDED
BLK	BLOCK	EL	ELEVATION	INSUL	INSULATION
BLKG	BLOCKING	ELEV	ELEVATOR	INT	INTERIOR
BM	BEAM/BENCH MARK	EP	ELECTRICAL PANEL	JST	JOIST
вот	BOTTOM	EQ	EQUAL	JT	JOINT
BRCKT	BRACKET	EQUIP	EQUIPMENT	LAM	LAMINATE(D)
BRG	BEARING	ES	EACH SIDE	LAV	LAVATORY
BUR	BUILT-UP ROOF	EWC	ELECTRICAL WATER COOLER	LB/#	POUNT
CAB	CABINET	EX/EXIST	EXISTING	LG	LENGTH
СВ	CATCH BASIN	EXH	EXHAUST	LKR	LOCKER
СС	CLOSED CELL (FOAM INSULATION)	EXP	EXPANSION	LLH	LONG LEG HORIZONTAL
CEM	CEMENT	EXT	EXTERIOR	LLV	LONG LEG VERTICAL
CER	CERAMIC	FA	FRESH AIR	LOC	LOCATIONS
CFM	CUBIC FEET PER MINUTE	FD	FLOOR DRAIN	LP	LOW POINT
CFS	COLD FORMED STEEL	FE	FIRE EXTINGUISHER	LT FIX	LIGHT FIXTURE
CI	CONTINUOUS INSULATION	FEC	FIRE EXTINGUISHER CABINET	LT WT	LIGHT WEIGHT
CIP	COMPACTED IN PLACE/ CAST IN PLACE	FF	FORCED FLOW CABINET HEATER	MFGR	MANUFACTURER
CJ	CONTROL JOINT	FHC	FIRE HOSE CABINET	MAR	MARBLE
CL	CENTERLINE	FIN	FINISH	MAS	MASONRY
CLG	CEILING	FIP	FOAMED IN PLACE INSULATION	MAT	MATERIAL
CLK	CAULK	FLASH	FLASHING	MAU	MAKE UP AIR UNIT
CMU	CONCRETE MASONRY UNIT	FLR	FLOOR	MAX	MAXIMUM
CMU	COLUMN	FOUND	FOUNDATION	MAA	MARKER BOARD
		FRMG	FRAMING		
COMP	COMPACTED	FRIMG	FEET	MD	
CONC	CONCRETE		FEET		MECHANICAL
CONST	CONSTRUCTION	FTG		MET / MTL	
CONT	CONTINUOUS	FURG	FURRING	MEZZ	
CONTR	CONTRACTOR	G	GAS	MH	MANHOLE
CORR	CORRIDOR	GA	GAUGE	MIN	MINIMUM/MINUTE
CRS	COURSES	GALV	GALVANIZED	MISC	MISCELLANEOUS
CPT	CARPET	GB	GRAB BAR	ML	METAL LATH

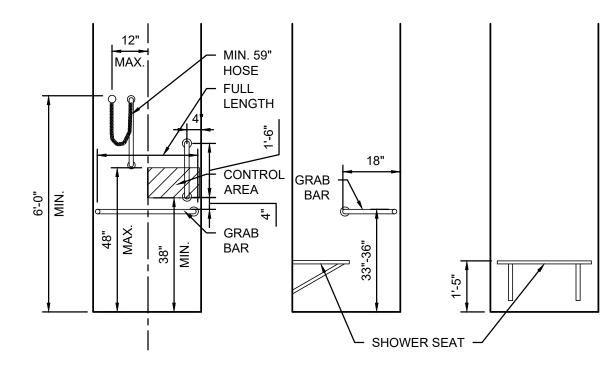
SYMBOL LEGEND



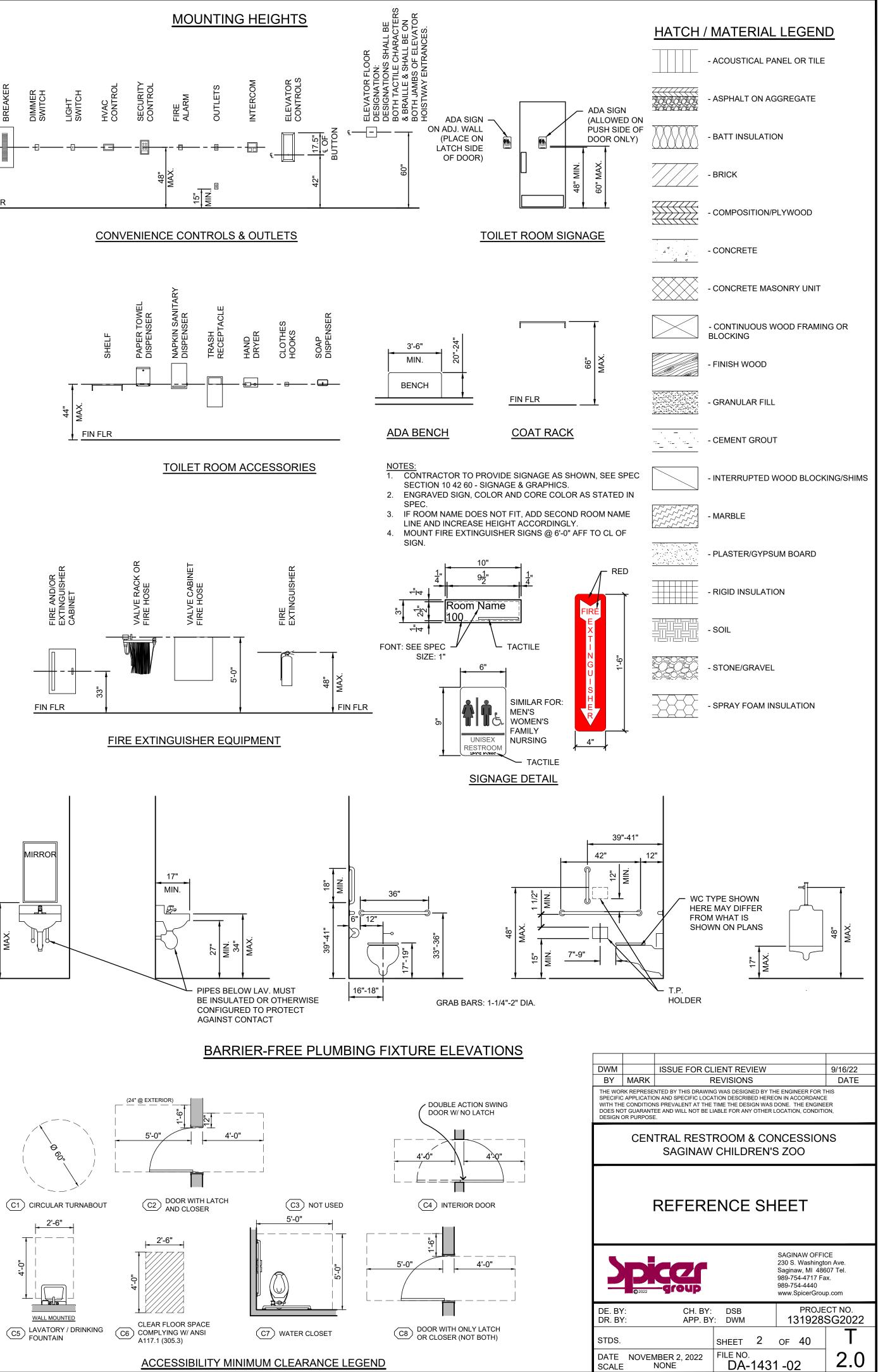
МО	MASONRY OPENING	SAN	SANITARY	
MS	METAL STUD	SCHED	SCHEDULE	
MT	METAL THRESHOLD	SECT	SECTION	
MTP	METAL TOILET PARTITION	SF	SPLIT FACE	. œ
NIC	NOT IN CONTRACT	SHT	SHEET	CIRCUIT BREAKER
NO/#	NUMBER	SIM	SIMILAR	CIRC
NOM	NOMINAL	SKYLT	SKYLIGHT	
NTS	NOT TO SCALE	SLDR	SOLDIER	ę
OC	ON CENTER	SLNT	SEALANT	<u>د</u>
OD	OUTSIDE DIAMETER	SPEC(S)	SPECIFICATION(S)	
ОН	OVERHEAD DOOR	SPKR	SPEAKER	
OPNG	OPENING	SQ	SQUARE	FIN FLR
OPP	OPPOSITE	SS	SERVICE SINK/STAINLESS STEEL	
PARG	PARGING	ST	STORM	
PART	PARTICLE	STD	STANDARD	
PARTN	PARTITION	STL	STEEL	
PERF	PERFORATED	STRUCT	STRUCTURAL	
PL	PLATE/PROPERTY LINE	SUSP	SUSPENDED	
PLAM	PLASTIC LAMINATE	Т	TREAD	
PLAS	PLASTER	T&B / TB	TOP & BOTTOM	
PLUMB	PLUMBING	TB	TACK BOARD	
PLYWD	PLYWOOD	TC	TOP OF CURB	
PORC	PORCELAIN	TEMP	TEMPERED/TEMPORARY	
PREFAB	PREFABRICATED	TERR	TERRAZZO	
PSF	POUNDS PER SQUARE FEET	TH	THRESHOLD	
PSI	POUNDS PER SQUARE INCH	TOC	TOP OF CONCRETE	
PTD	PAINTED/PAPER TOWEL DISPENSER	TOF	TOP OF FOOTING	
PVC	POLYVINYL CHLORIDE	ТОМ	TOP OF MASONRY	
QT	QUARRY TILE	TOS	TOP OF STEEL	
R	RADIUS/RISER	TR	TREATED	
RAG	RETURN AIR GRILLE	TV	TELEVISION	
RB	RUBBER BASE	TYP	TYPICAL	
RC	RAIN CONDUCTOR	UNO	UNLESS NOTED OTHERWISE	
REF	REFERENCE/REFRIGERATOR	UV	UNIT VENTILATOR	
REINF	REINFORCING	VAP BAR	VAPOR BARRIER	
REQD	REQUIRED	VB	VINYL BASE	
RES	RESILIENT	VCT	VINYL COMPOSITE TILE	
REV	REVISION	VERT	VERTICAL	
RF	ROOF EXHAUST FAN	VIF	VERIFY IN FIELD	
RLGT	REGLET	VWC	VINYL WALL COVERING	
RM	REMOVABLE MULLION/ROOM	W	WATER	
RO	ROUGH OPENING	W/	WITH	
ROW	RIGHT OF WAY	W/O	WITHOUT	
ROWLK	ROWLOCK	WC	WATER CLOSET	
RS	ROOF SUMP	WD	WIDTH/WOOD	
RTU	ROOF TOP UNIT	WH	WATER HEATER	
RV	ROOF VENT		WATERPROOFING / WEATHERPROOF /	
SK	SINK	WP	WORKING POINT	
S & V	STAIN & VARNISH	WRB	WATER RESISTANT BARRIER	
SAG	SUPPLY AIR GRILLE	WWF	WELDED WIRE FABRIC	

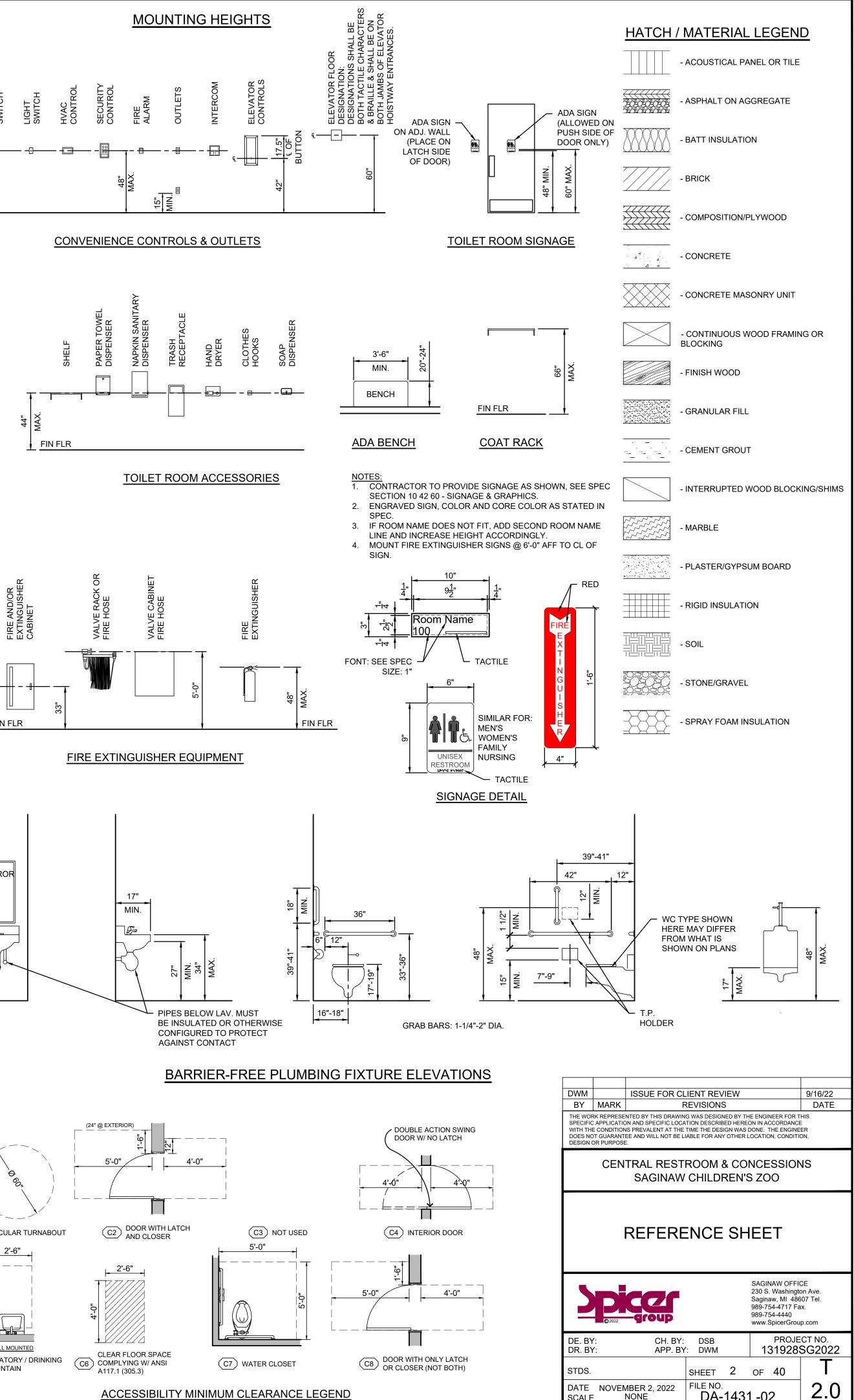






SHOWER DETAILS





GENERAL NOTES

NO WORK SHALL BE PERFORMED BEFORE 7:00 AM OR AFTER 7:00 PM MONDAY THROUGH SATURDAY. NO WORK SHALL HAPPEN ON SUNDAYS OR HOLIDAYS. UNLESS AUTHORIZED BY THE OWNER.

CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS PRIOR TO START OF CONSTRUCTION, CONSTRUCTION STAKING AND INSPECTION.

CONTRACTOR TO PROVIDE DUST CONTROL AND SWEEP ROADS DAILY.

ALL EXCAVATED MATERIAL NOT TO BE REUSED OR DISPOSED OF ON SITE SHALL BE REMOVED FROM SITE. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSING MATERIALS ACCORDING TO LOCAL AND STATE REQUIREMENTS.

UNDERGROUND UTILITIES/MISS DIG

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174, 2013, THE CONTRACTOR SHALL DIAL 1-800-482-7171 OR 811 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE EXISTING UTILITIES ON THESE DRAWINGS HAVE BEEN SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION AND SHALL NOTIFY THE ENGINEER AS TO WHERE POSSIBLE CONFLICT EXISTS.

ALL CONSTRUCTION UNDER EXISTING UTILITIES, INCLUDING HOUSE SERVICES, SHALL BE COMPLETELY BACKFILLED WITH SAND, IN 12" LAYERS, AND COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM UNIT WEIGHT.

ANY UTILITIES ENCOUNTERED DURING CONSTRUCTION SHALL BE SUPPORTED, PER THE SPECIFICATIONS OF THE INDIVIDUAL UTILITY COMPANY CLAIMING OWNERSHIP OF THE UTILITY.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES APPROPRIATE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO EARTH-DISTURBING ACTIVITIES. PLACE TURF ESTABLISHMENT ITEMS AS SOON AS POSSIBLE ON POTENTIAL ERODABLE SLOPES AS DIRECTED BY THE ENGINEER. CRITICAL DITCH GRADES SHALL BE PROTECTED WITH EITHER SOD OR SEED/MULCH OR MULCH BLANKET AS DIRECTED BY THE ENGINEER.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE AND MAINTAINED UNTIL THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. MEASURES SHALL ONLY BE PAID FOR ONCE.

ALL CATCHBASINS AND SEDIMENTATION TRAP/BASIN SHALL BE CLEANED OUT UPON COMPLETION OF THE PROJECT.

ALL DEWATERING REQUIRED FOR CONSTRUCTION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR UTILITY BEING INSTALLED.

ALL RIPRAP SHALL BE MDOT PLAIN RIPRAP TYPE MATERIAL, UNLESS OTHERWISE NOTED.

CONTRACTORS SHALL FINISH GRADE, SEED, FERTILIZE, AND MULCH DAILY ON ALL DISTURBED AREAS.

CONTRACTOR SHALL CONFORM TO SOIL EROSION AND SEDIMENTATION CONTROL ACT, PART 91 OF ACT 451 OF 1994.

PROPERTY OWNERS

PROPERTY OWNERS' NAMES, WHERE SHOWN, ARE FOR INFORMATION ONLY, AND THEIR ACCURACY IS NOT GUARANTEED.

ADJUSTING MONUMENT BOXES

ALL GOVERNMENT CORNERS ON THIS PROJECT SHALL BE PRESERVED, WHETHER SHOWN OR NOT. IT MAY BE NECESSARY TO PLACE OR ADJUST MONUMENT BOXES, AS REQUIRED.

TRAFFIC

THE CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC AT ALL TIMES. SIGNAGE MUST BE IN ACCORDANCE WITH THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL BE COORDINATED WITH THE ENGINEER AND GOVERNING ROAD AGENCY. PERMITS MAY BE REQUIRED.

PERMITS PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED BY THE APPROPRIATE AGENCIES.

CONSTRUCTION PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF THE APPROPRIATE AGENCIES.

SITE WORK

ALL TRENCHED CONSTRUCTION UNDER EXISTING, PROPOSED AND FUTURE GRAVEL, PAVED SURFACES OR UTILITIES SHALL BE COMPLETELY BACKFILLED WITH CLASS II SAND OR OTHER APPROVED GRANULAR MATERIAL IN 12" LAYERS AND COMPACTED TO 95% OF ITS MAXIMUM UNIT WEIGHT.

UNPAVED AREAS SHALL BE SMOOTHLY GRADED AND THE SURFACE STABILIZED BY SEEDING OR OTHERWISE. THE MAXIMUM DESIRABLE SLOPE IS 3 HORIZONTAL TO 1 VERTICAL UNLESS NOTED OTHERWISE.

CONTRACTOR IS RESPONSIBLE TO MAINTAIN POSITIVE DRAINAGE PATTERN TO ENSURE NO PONDING OF WATER ON ADJACENT EXISTING AND PROPOSED PAVED SURFACES.

PAVEMENT / SIDEWALK

CONTRACTOR SHALL SAWCUT PAVEMENT AND CURB & GUTTER FOR A CLEAN EDGE TO INSTALL PROPOSED PAVEMENT AND CURB & GUTTER.

HMA PAVEMENT AND OR CONCRETE SHALL NOT BE PLACED WHEN THE SURFACE BEING OVERLAID IS WET, OR WHEN RAIN IS FORECAST OR THREATENING.

THE CONTRACTOR SHALL PROTECT FRESH HMA OR CONCRETE FROM DAMAGE BY THE WEATHER, TRAFFIC OR VANDALISM. DAMAGED HMA OR CONCRETE SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.

STORM SEWER

CORRUGA TED. ALL MANHOLE RIMS IN ROADWAYS AND DRIVES SHALL BE ADJUSTED PRIOR TO FINAL PAVING TO BE FLUSH WITH FINISHED GRADE.

DRAINAGE STRUCTURE IN PROPOSED CURB - OFFSETS AND ELEVATIONS SHOWN ARE TO THE BACK AND TOP OF CURB. ALIGN THE STRUCTURE WITH THE BACK OF THE CASTING AND THE TOP OF THE CASTING FLUSH WITH THE PROPOSED BACK AND TOP OF CURB. DRAINAGE STRUCTURES IN OUTLAWN AREA AND PAVED AREA - OFFSET SHOWN IS TO CENTER OF STRUCTURE. RIM ELEVATIONS FOR DOME COVERS AND FLAT COVERS ARE TO THE TOP OF THE CASTING FRAME.

SANITARY SEWER

WATER MAIN

EQUAL. WRAP ALL FITTINGS, VALVES, HYDRANTS, AND ALL D.I. PIPE IN 8 MIL POLYETHYLENE SHEET PER AWWA C105. THE CONCRETE USED FOR BLOCKING SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28

DA YS.

MUNICIPALITY'S STANDARDS.

GENERAL NOTES CONT.

ELECTRIC SERVICE TO BUILDING AND PARKING LOT LIGHTS SHALL BE UNDERGROUND. ALL UTILITY COMPANY SERVICE LINES AND PAD LOCATIONS ARE SHOWN FOR REFERENCE ONLY. EXACT LOCATIONS TO BE COORDINATED WITH UTILITY COMPANY.

DIMENSIONS SHOWN ARE GIVEN TO THE BACK OF CURBS AND FACE OF BUILDINGS UNLESS NOTED OTHERWISE.

WHERE A DISCREPANCY OCCURS BETWEEN PROPOSED WORK AND FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CLARIFICATION.

SIDEWALK SHALL BE CONSTRUCTED WITH A CROSS SLOPE SLOPED TOWARD THE STREET OR PARKING AREAS, SLOPES NOT TO EXCEED 2% UNLESS NECESSARY TO PROVIDE POSITIVE DRAINAGE OR MEET EXISTING SIDEWALKS, CURBS OR PAVEMENT.

IN GRASS AREAS, THE SURFACE OF THE SIDEWALK SHALL BE ABOUT 1/2 INCH HIGH THAN THE ADJACENT GROUND SURFACE, UNLESS NECESSARY TO PROVIDE POSITIVE DRAINAGE OR MEET EXISTING SIDEWALKS, CURBS OR PAVEMENT.

PAVEMENT MARKINGS AND SIGNS

ALL PERMANENT PAVEMENT MARKINGS, SHAPES, AND DIMENSIONS SHALL CONFORM WITH MDOT PAVEMENT MARKING TYPICALS PAVE-900 SERIES.

PIPE MATERIALS SHALL BE AS FOLLOWS: • 12" DIAMETER AND ABOVE – CONCRETE PIPE, C-76, ASTM C-443 <u>OR</u> PVC PIPE SDR35. • LESS THAN 12" DIAMETER - PVC PIPE SDR35, OR HIGH DENSITY POLYETHYLENE (HDPE), DUAL WALL,

GRADING AROUND MANHOLES/CATCHBASINS, FLARED END SECTIONS, AND OTHER INLETS SHALL BE SMOOTH AND SHAPED TO PROVIDE POSITIVE DRAINAGE INTO THE INLETS.

ALL MANHOLE TO PLASTIC PIPE CONNECTIONS SHALL BE MADE WITH KOR-N-SEAL BOOT.

ALL FLARED END SECTIONS TO HAVE FACTORY SUPPLIED ANIMAL GUARD.

ALL SANITARY SEWER SHALL BE PVC, SDR35, TYPE PSM PLASTIC, CONFORMING TO ANSI/ASTM D3034 WITH RUBBER GASKET JOINTS, UNLESS SPECIFIED OTHERWISE.

ALL SEWER JOINTS SHALL CONFORM TO A.S.T.M. C-425.

ALL SEWER PIPE SHALL CONFORM TO A.S.T.M. C-700.

INFILTRATION SHALL NOT EXCEED 100 GAL./INCH DIA./MILE/DAY.

WATER MAIN PIPE SHALL CONFORM TO THE MUNICIPALITY'S STANDARDS AND SHALL BE PVC C-900 OR DUCTILE IRON, CLASS 52, CEMENT LINED.

WATER SERVICE PIPE FROM 3/4" TO 2-1/2" SHALL BE SEAMLESS, TYPE-K COPPER.

WATER MAIN SHALL HAVE A MINIMUM COVER OF 5'-6" UNLESS OTHERWISE SPECIFIED.

THE CONTRACTOR SHALL SECURE ALL MECHANICAL JOINT FITTINGS WITH RETAINERS GLANDS IN ADDITION TO THRUST BLOCKING. RETAINER GLANDS SHALL BE MEGA-LUG AS MANUFACTURED BY EBAA IRON OR APPROVED

ALL FITTINGS SHALL BE MECHANICAL JOINT. ALL HYDRANTS AND VALVES SHALL CONFORM TO THE

ALL BURIED FERROUS PARTS SHALL RECEIVE A 10 MIL (DRY MILL THICKNESS) COATING OF COAL TAR EPOXY.

<u>ABBREVIA TIONS</u>	LINE TYPE LEGEND
BC = BACK OF CURB $BM = BENCH MARK$ $C/C = CENTER TO CENTER$ $CB = CATCH BASIN$ $CL = CENTERLINE$ $CJ = CONSTRUCTION JOINT$ $CMP = CORRUGATED METAL PIPE$ $CSP = CORRUGATED STEEL PIPE$ $CONC = CONCRETE$ $DI = DUCTILE IRON PIPE$ $EF = EACH FACE$ $ELEC = ELECTRIC$ $EL OR ELEV = ELEVATION$ $EOM = EDGE OF METAL$ $EOP = EDGE OF PAVEMENT$ $EQ/SP = EQUALLY SPACED$ $ESMT = EASEMENT$ $EW = EACH WAY$ $EX OR EXIST = EXISTING$ $FF = FINISH FLOOR$ $FL = FLOW LINE$ $FS = FINISH SURFACE$ $FG = FINISH GROUND$ $GALV = GALVANIZED$ $G = GUTTER$ $HDG = HOT DIP GALVANIZED$ $HDPE = HIGH DENSITY POLYETHYLEN$ $HP = HIGH POINT$ $HMA = HOT MIX ASPHALT$ $HYD = HYDRANT$ $INV = INVERT$ $LP = LOW POINT$ $OC = ON CENTER$ $OH = OVERHEAD$ $MH = MANHOLE$	= - + + + + + + + + + + + + + + + + + +
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	SYMBOL LEGEND EXISTINC SYMBOLS O - MANHOLE A O - CATCH BASIN D C - CHR CATCH BASIN D C - CAS VALVE D Sold DoWNING UNIT D - CAS VALVE D C - C - C - D - D - <
FOR UTILITIES CONTACT TELEPHONE SERVICE AT&T c/o Engineering Department Room 525 309 S. Washington Ave Saginaw, MI 48607 TEL 989–776–4070 GAS AND ELECTRIC SERVICE Consumers Energy 2400 Weiss Street Saginaw, MI 48602 TEL 989–791–5869 WATER AND SEWER SERVICES City of Saginaw	PROPOSED SYMBOLS \bigcirc - MANHOLE \blacksquare - CATCHBASIN \heartsuit - FIRE HYDRANT \bigcirc - FIRE HYDRANT \bigcirc - WATER VALVE C - BARRIER FREE PARKING \bigcirc \bigcirc \blacksquare - LIGHT POLES \Longrightarrow - DRAINAGE FLOW C = SPOT ELEVATION LABELS \Box = CUTER TW = WALK TC = TOP OF CURB FS = FINISH SURFACE

1315 S. Washington Ave. Saginaw, MI 48601

TEL 989–399–1311

BY	MARK	REVISIONS	DATE
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		NOTE. CHILDREN	-
		TRAL RES	TROOMS &
		roup	SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com
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FILE NO.

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DATE NOV. 9, 2022

N/A

SCALE

UTILITY NOTE

The utility locations as hereon shown are based on field observations and a careful review of municipal and utility company records. However, it is not possible to determine the precise location and depth of underground utilities without excavation. Therefore, we cannot guarantee the accuracy or completeness of the buried utility information hereon shown. The contractor shall call "MISS DIG" (1-800-482-7171) within three working days prior to any excavation. The contractor is responsible for verifying these utility locations prior to construction and shall make every effort to protect and or relocate them as required. The contractor shall notify the Engineer/Surveyor as soon as possible in the event a discrepancy is found.

FOR UTILITIES CONTACT

<u>TELEPHONE SERVICE</u> AT&T c/o Engineering Department Room 525 309 S. Washington Ave Saginaw, MI 48607 TEL 517-776-4070

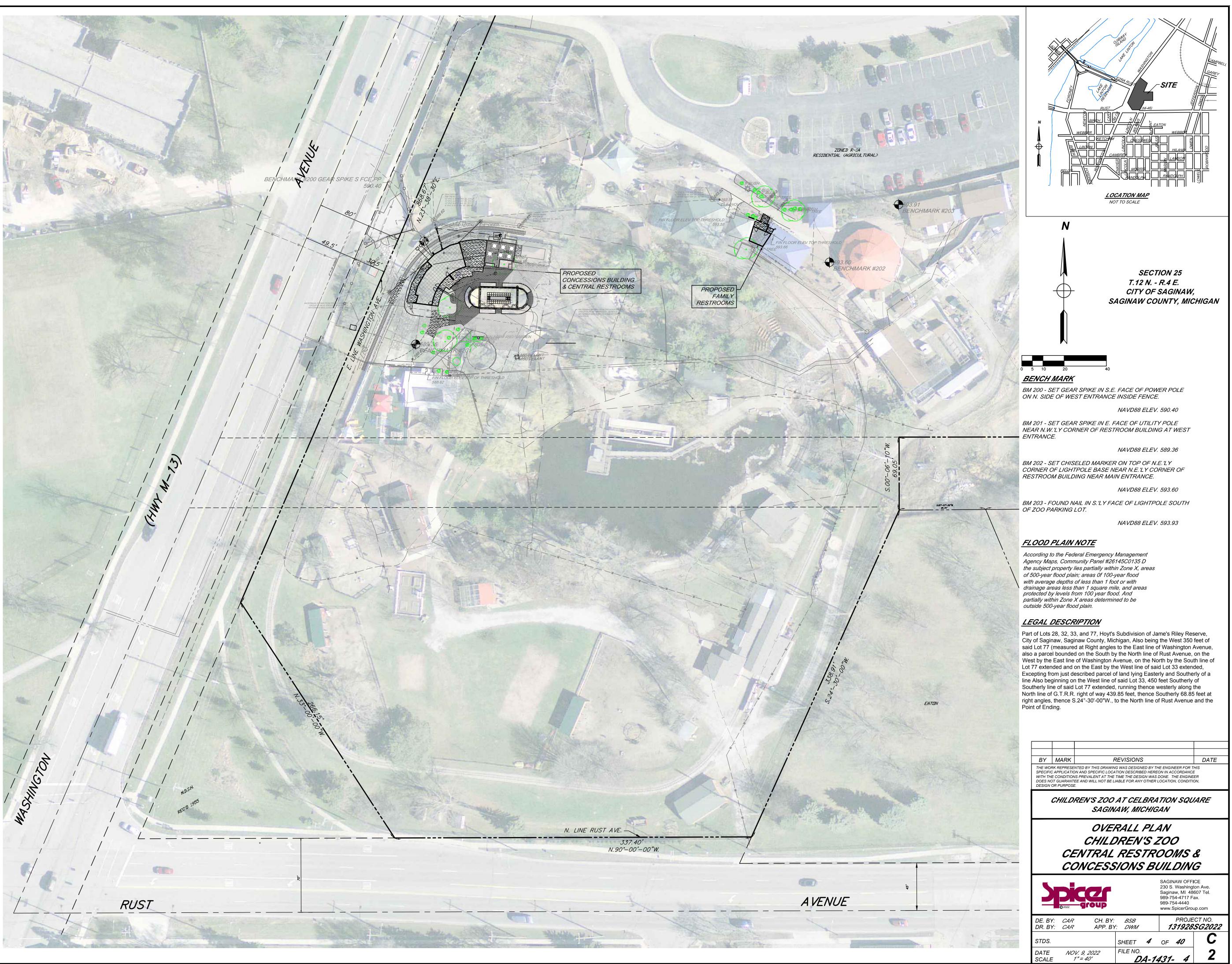
WATER AND SEWER SERVICES City of Saginaw Egnr. Dept. 1435 S. Washington Avenue Saginaw, MI 48601 TEL 517-759-1410

<u>CABLE</u> Charter Communications 2525 State Street Saginaw, Mi 48602 989-799-0315

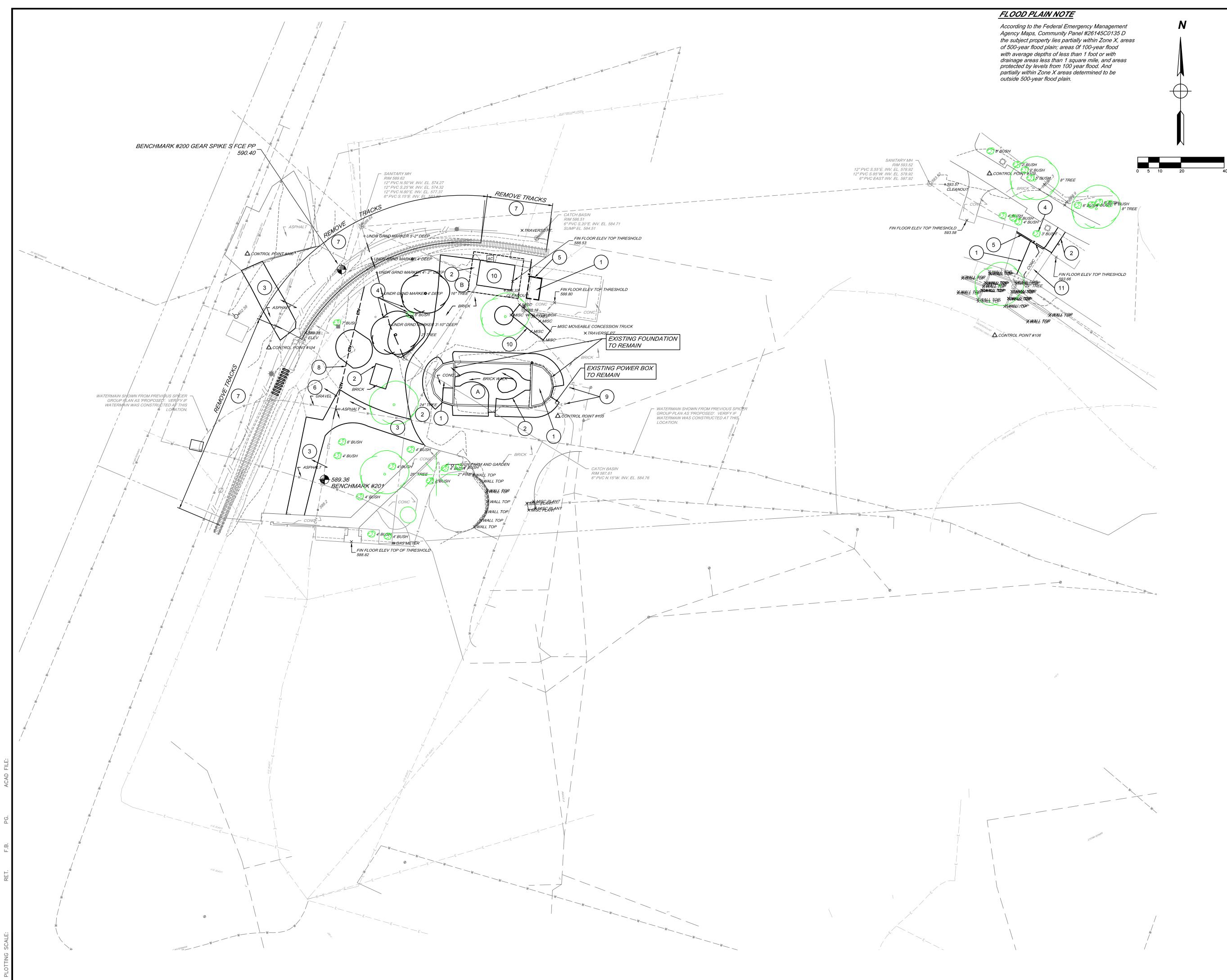
GAS AND ELECTRIC SERVICE Consumers Energy 2400 Weiss Street Saginaw, MI 48602 TEL 989-791-5869

LEGEND

	TELEPHONE PEDESTAL
•	FOUND MONUMENT
0 -	FOUND SURVEY CORNER
0 -	SET 3/4" IRON PIPE
0 -	SET P.K. NAIL
	PINE
Ø -	DECIDUOUS BUSH
· ·	DECIDUOUS TREE
$\leftarrow \circ$	GUY ANCHOR AND POLE
ø	POWER AND TELEPHONE POLE
N.F.L.	NOT FIELD LOCATED
0	MANHOLE
\oslash -	CATCHBASIN
	CURB CATCHBASIN
Y.	FIRE HYDRANT
⊗ -	WATER VALVE
÷.	LIGHT POLE
+ -	SIGN
Ф -	ELECTRICAL OUTLET
	BITUMINOUS SURFACE
4	CONCRETE SURFACE
-	CONCRETE CURB
	CONTOUR



BY	MARK	REVISIONS		DATE
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DEMOLITION NOTES PROTECT TREES, PLANT GROWTH, AND FEATURES

- DESIGNATED TO REMAIN, AS FINAL LANDSCAPING. 2. CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE THE TAGGING OF SPECIFIC
- TREES/SHRUBS TO BE PRESERVED PRIOR TO BEGINNING DEMOLITION. REMOVE TREES AND SHRUBS WITHIN LIMITS OF З.
- CONSTRUCTION AS NOTED. REMOVE STUMPS, MAIN ROOT BALL, ROOT SYSTEM TO A DEPTH OF 12 INCHES AND SURFACE ROCK.
- 4. CLEAR AREAS REQUIRED FOR ACCESS TO SITE AND EXECUTION OF WORK.
- 5. REMOVE NOTED WALLS, FOUNDATIONS, PAVING, CURBS, AND SIDEWALKS.
- SAWCUT ALL PAVEMENT, CURBS AND WALKS NOTED FOR REMOVAL FOR A CLEAN EDGE,
- 7. REMOVE ALL CLEARED ITEMS FROM SITE AND PROPERLY DISPOSE OF.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING 8. ALL DISTURBED AREAS.
- CONTRACTOR SHALL COORDINATE WITH OWNERS 9. REPRESENTATIVE FOR ALL UNDERGROUND BURIED UTILITIES PRIOR TO STARTING CONSTRUCTION. MANY DATA & COMMUNICATION LINES COMING FROM THE SW CORNER OF THE STORAGE ROOM TO BE CAUTIOUS ABOUT.

DEMOLITION ITEMS

- SAWCUT AND REMOVE CONCRETE PAVEMENT TO NEAREST EXPANSION 1 JOINT.
- REMOVE AND SALVAGE EXISTING BRICKS FOR RE-USE. MEMORIAL (2) BRICKS AROUND DONOR GARDEN TO REMAIN. A. BRICKS WITHIN DONOR GARDEN TO BE SALVAGED.
 - B. BRICKS REMOVED DUE TO NEW BUILDING PLACEMENT TO BE SALVAGED FOR RE-USE UP TO EAST DEPOT, SOUTH TO SOUTH EDGE OF LANDSCAPING BED. SEE OWNERS REPRESENTATIVE FOR PAVER REMOVAL ORDER AND
 - STORAGE LOCATION. SEE SITE PLAN FOR NEW WALK LAYOUT.
- REMOVE ASPHALT. ´3)
- REMOVE EXISTING TREE/SHRUB.
- REMOVE IRON FENCE OR WOOD FENCE. ALL REMOVED FENCING TO BE SALVAGED. SEE OWNERS REPRESENTATIVE FOR STORAGE LOCATION.
- REMOVE GRAVEL.
- REMOVE RAILROAD TRACKS, WOODEN TIES AND BALLAST, TO BE SALVAGED, STORED ON SITE AND REUSED. CONTRACTOR SHALL NOTE TO OWNER IF ANY WOODEN TIES CANNOT BE REUSED. SEE GRADING PLAN FOR LAYOUT AND ELEVATIONS.
- REMOVE AND RELOCATE BURIED ELECTRIC LINE, COORDINATE WITH UTILITY COMPANY PRIOR TO CONSTRUCTION FOR EXACT LOCATION.
- (9) REMOVE POST AND FOUNDATION, PATCH IN BRICK TO MATCH EXISTING.
- CONCESSION PREP. BUILDING & TRUCK TO BE REMOVED IN ONE PIECE, (10) DO NOT DEMOLISH. RELOCATE TO A DESIGNATED LOCATION ON ZOO GROUND, COORDINATE WITH OWNER. FOUNDATION PIERS TO BE REMOVED. EXISTING ELECTRIC, GAS, WATER AND SANITARY SEWER TO BE REMOVED OR CUT & CAPPED, COORDINATE WITH OWNERS REPRESENTATIVE FOR PREFERRED METHOD.
 - * PRIOR TO START OF DEMOLITION, THE OWNER WILL NEED TO DISCONNECT AND TEMPORARILY CONNECT DATA SECURITY LINE BEFORE ANY WORK CAN BEGIN.
- (11) PLASTIC SHED REMOVAL BY OWNER.

BENCH MARK

- BM 200 SET GEAR SPIKE IN S.E. FACE OF POWER POLE ON N. SIDE OF WEST ENTRANCE INSIDE FENCE.
 - NAVD88 ELEV. 590.40

BM 201 - SET GEAR SPIKE IN E. FACE OF UTILITY POLE NEAR N.W.'LY CORNER OF RESTROOM BUILDING AT WEST ENTRANCE.

NAVD88 ELEV. 589.36

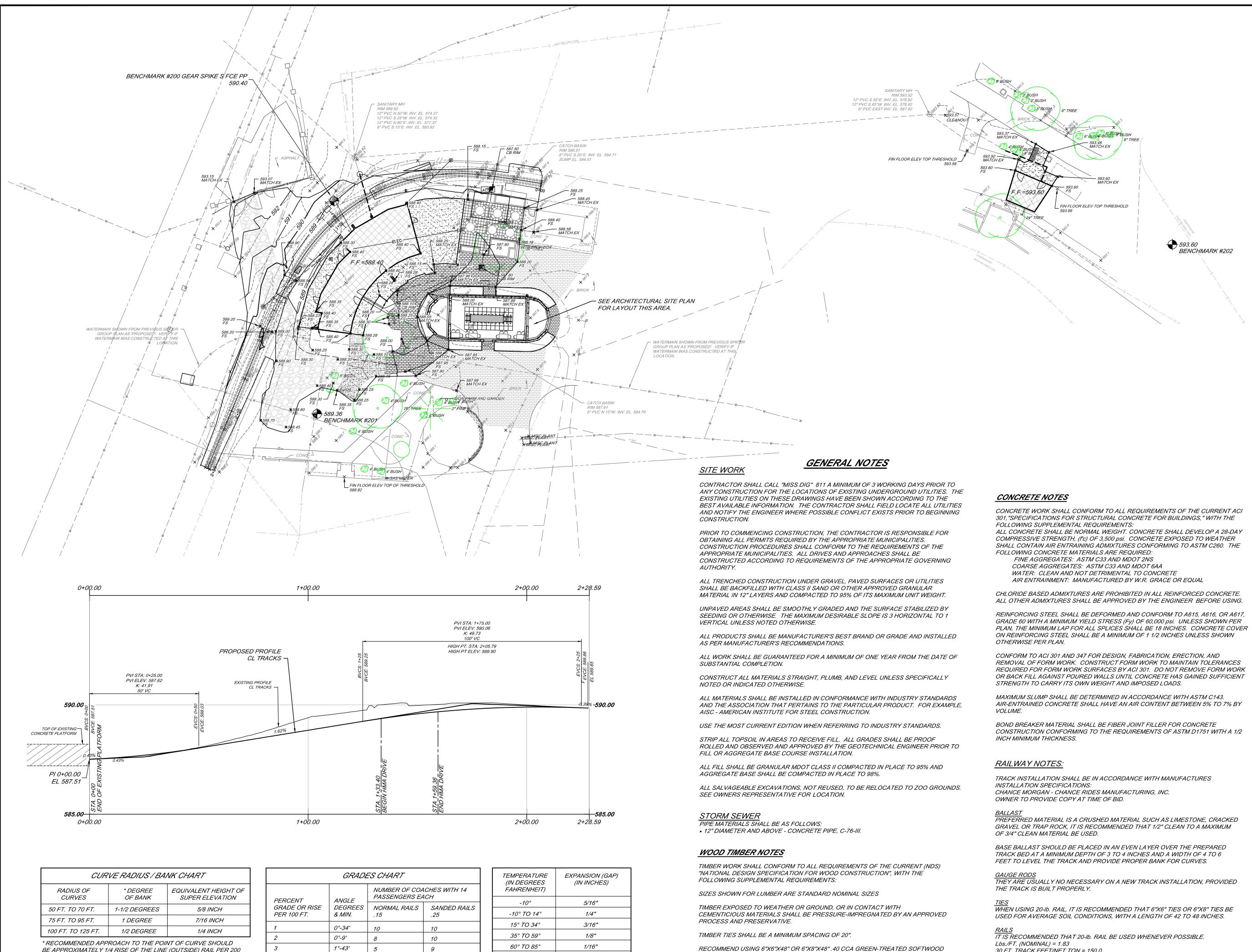
BM 202 - SET CHISELED MARKER ON TOP OF N.E.'LY CORNER OF LIGHTPOLE BASE NEAR N.E.'LY CORNER OF RESTROOM BUILDING NEAR MAIN ENTRANCE.

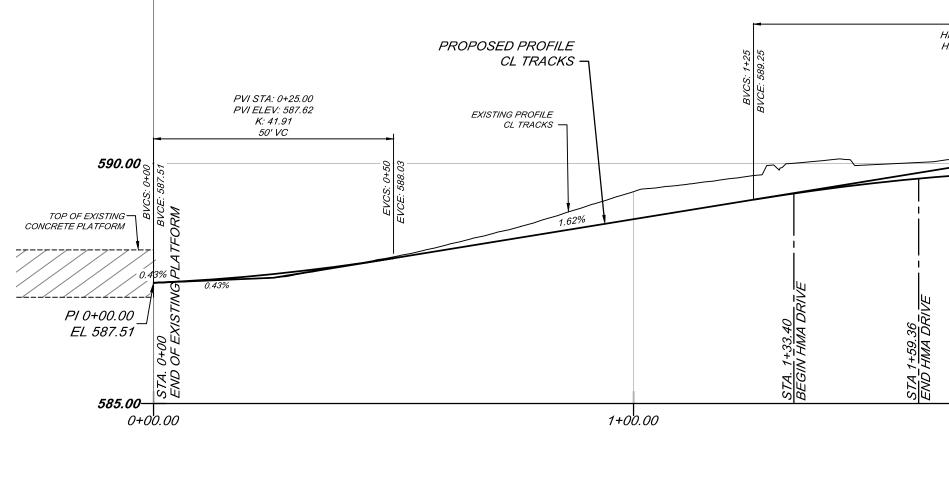
NAVD88 ELEV. 593.60

BM 203 - FOUND NAIL IN S.'LY FACE OF LIGHTPOLE SOUTH OF ZOO PARKING LOT.

NAVD88 ELEV. 593.93

BY	MARK	F	REVISIONS	S			DATE
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	CHILDRE		AT CEL AW, MI			N SQU	ARE
	DEMOLITION PLAN CHILDREN'S ZOO CENTRAL RESTROOMS &						
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CURVE RADIUS / BANK CHART							
RADIUS OF CURVES	* DEGREE OF BANK	EQUIVALENT HEIGHT OF SUPER ELEVATION					
50 FT. TO 70 FT.	1-1/2 DEGREES	5/8 INCH					
75 FT. TO 95 FT.	1 DEGREE	7/16 INCH					
100 FT. TO 125 FT. 1/2 DEGREE 1/4 INCH							
* RECOMMENDED APP	ROACH TO THE POIL	NT OF CURVE SHOULD					

GRADES CHART										
PERCENT	ANGLE	NUMBER OF COACHES WITH 14 PASSENGERS EACH								
GRADE OR RISE PER 100 FT.	DEGREES & MIN.	NORMAL RAILS .15	SANDED RAILS .25							
1	0°-34'	10	10							
2	0°-9'	8	10							
3	1°-43'	5	9							

OVER 85°

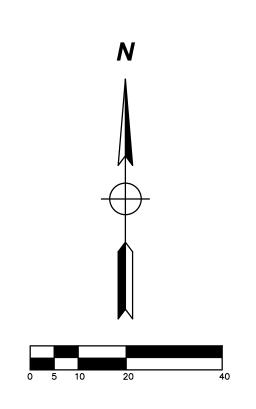
NONE

BE APPROXIMATELY 1/4 RISE OF THE LINE (OUTSIDE) RAIL PER 200 FEET APPROACH.

OR AN EQUIVALENT. ALL CUT ENDS TO BE RE-TREATED.

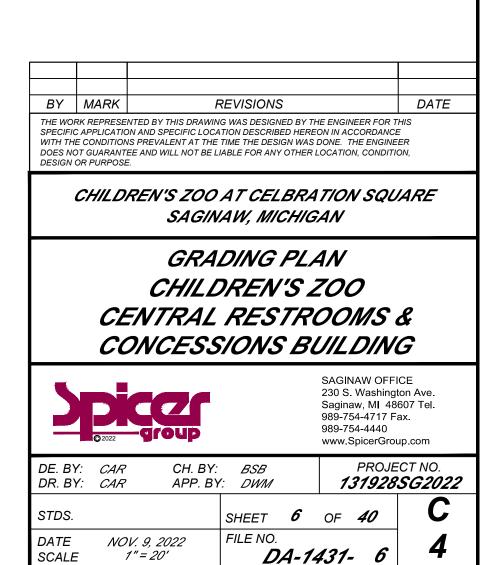
TIES IN PONDEROSA PINE, JACK PINE, SOUTHERN YELLOW PINE, #2 DOUGLAS FIR,

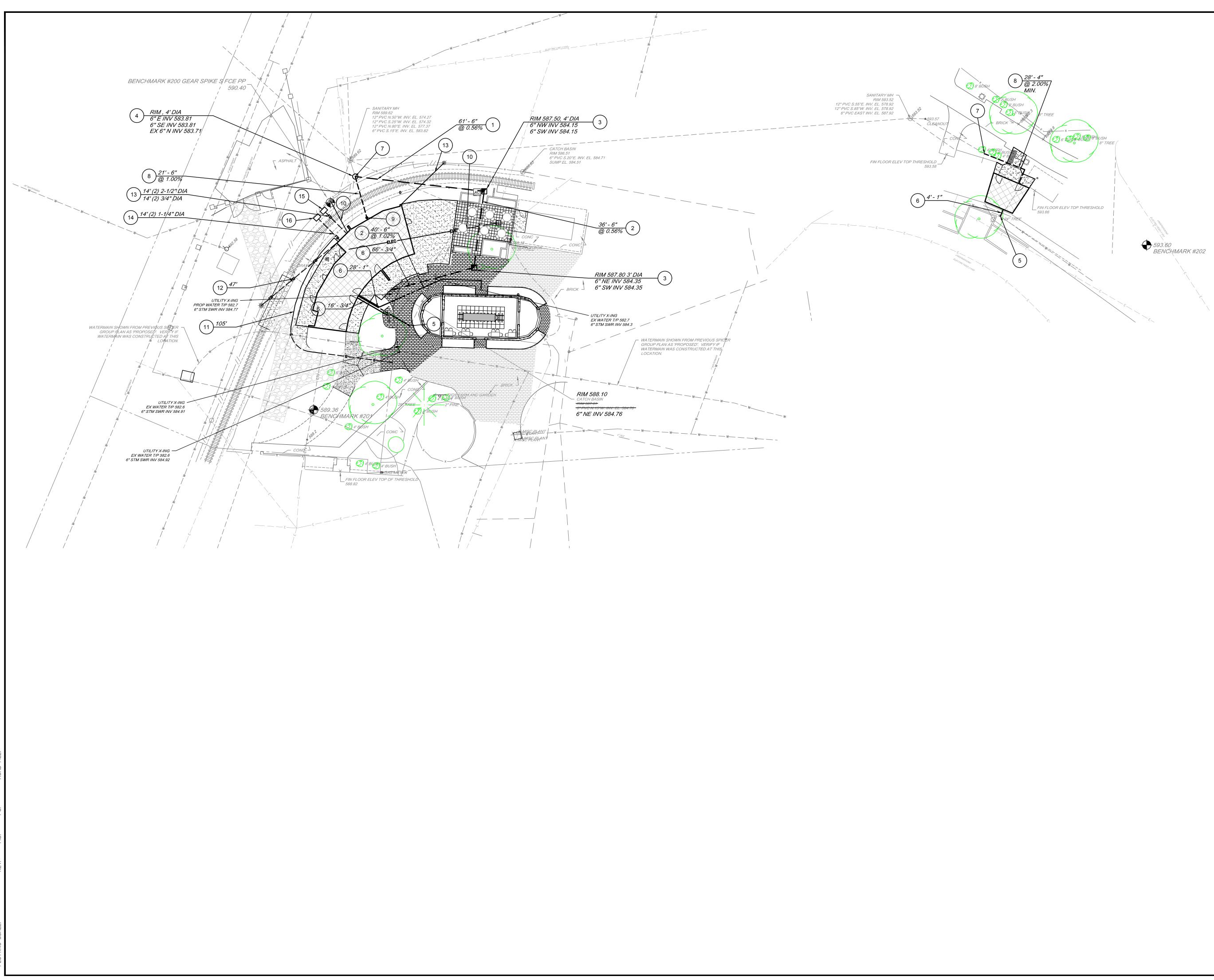
RECOMMENDED SPIKES:

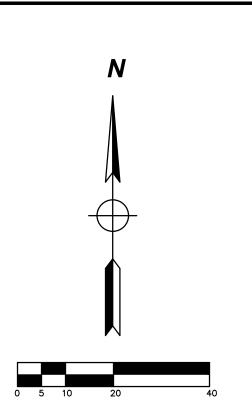


SECTION 25 T.12 N. - R.4 E. CITY OF SAGINAW, SAGINAW COUNTY, MICHIGAN

- *30 FT. TRACK FEET/NET TON = 150.0*
- 6"X6" TIE = 3/8" X 3-1/2" X 4-1/2" OR 1/2" X 1/2" X 4-1/2" 6"X8" TIE = 3/8" X 5" OR 9/16" X 5-1/2"







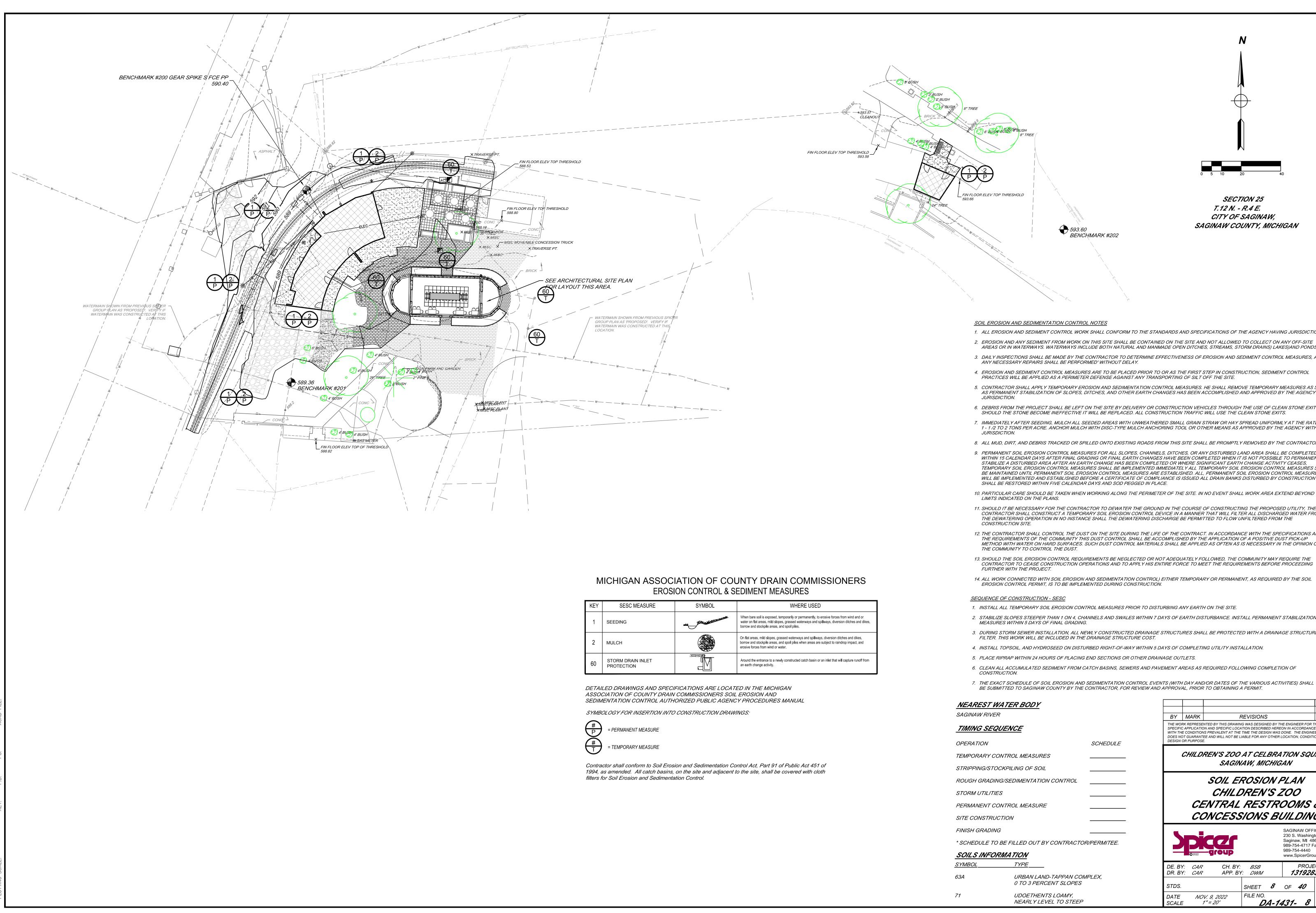
SECTION 25 T.12 N. - R.4 E. CITY OF SAGINAW, SAGINAW COUNTY, MICHIGAN

<u>CONSTRUCTION NOTES</u>

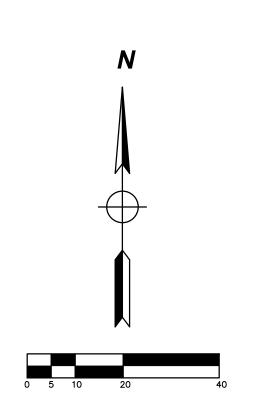
STORM SEWER - PVC, SDR26, TYPE PSM PLASTIC, CONFORMING TO ANSI/ASTM D3034 WITH RUBBER GASKET JOINTS.

- 2 12" OR LARGER SHALL BE ADS HP STORM ASTM F2881. LESS THAN 12" SHALL BE ADS N-12 SOIL TIGHT WITH INTEGRAL BELL, ASTM F2648.
- $\begin{pmatrix} 3 \end{pmatrix}$ CATCH BASIN.
- $\begin{pmatrix} 4 \end{pmatrix}$ MANHOLE.
- CONNECT TO EXISTING WATER MAIN USING CORPORATION STOP PER CITY STANDARDS.
- 6 WATER SERVICE LEAD TYPE-K COPPER.
- CONNECT TO EXISTING SANITARY.
- SANITARY LEAD PVC, SDR26, TYPE PSM PLASTIC, CONFORMING TO ANSI/ASTM D3034 WITH RUBBER GASKET JOINTS.
- 9) SANITARY CLEANOUT.
- 10 ELECTRIC SERVICE LINE. EXACT LOCATIONS TO BE COORDINATED WITH UTILITY COMPANY.
- (11) GAS SERVICE CONNECTION TO BE COORDINATED THROUGH UTILITY COMPANY.
- 12 COMMUNICATION BURIED LINE W/PULL STRING 1-1/2" CONDUIT BURIED FROM POWER POLE TO MECHANICAL ROOM, EXACT LOCATIONS TO BE COORDINATED WITH OWNER.
- 13 SECURITY LINE CONDUIT W/PULL STRING EXACT LOCATIONS TO BE COORDINATED WITH OWNER.
- 14 FOR FUTURE - 1-1/2" CONDUIT W/PULL STRING, BURIED FROM POWER POLE TO OTHER SIDE OF R.R. TRACK AND PLUGGED, EXACT LOCATIONS TO BE COORDINATED WITH OWNER.
- (15) SECURITY AND DATA/COMMUNICATION PULL BOX.
- (16) ELECTRIC PULL BOX.

BY	MARK	F	EVISIONS	6			DATE				
SPECIFI WITH TH DOES NO	THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.										
	CHILDREN'S ZOO AT CELBRATION SQUARE SAGINAW, MICHIGAN										
	UTILITY PLAN CHILDREN'S ZOO CENTRAL RESTROOMS & CONCESSIONS BUILDING										
2	DIC ©2022	roup			230 S N Saginav 989-754 989-754	AW OFFIC Washingto v, MI 486 I-4717 Fa I-4440 DicerGrou	on Ave. 607 Tel. ax.				
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KEY	SESC MEASURE	SYMBOL	WHERE USED
1	SEEDING	and Millimited and and	When bare soil is exposed, temporarily or permanently, to erosive forces from wind and or water on flat areas, mild slopes, grassed waterways and spillways, diversion ditches and dikes, borrow and stockpile areas, and spoil piles.
2	MULCH		On flat areas, mild slopes, grassed waterways and spillways, diversion ditches and dikes, borrow and stockpile areas, and spoil piles when areas are subject to raindrop impact, and erosive forces from wind or water.
60	STORM DRAIN INLET PROTECTION		Around the entrance to a newly constructed catch basin or an inlet that will capture runoff from an earth change activity.



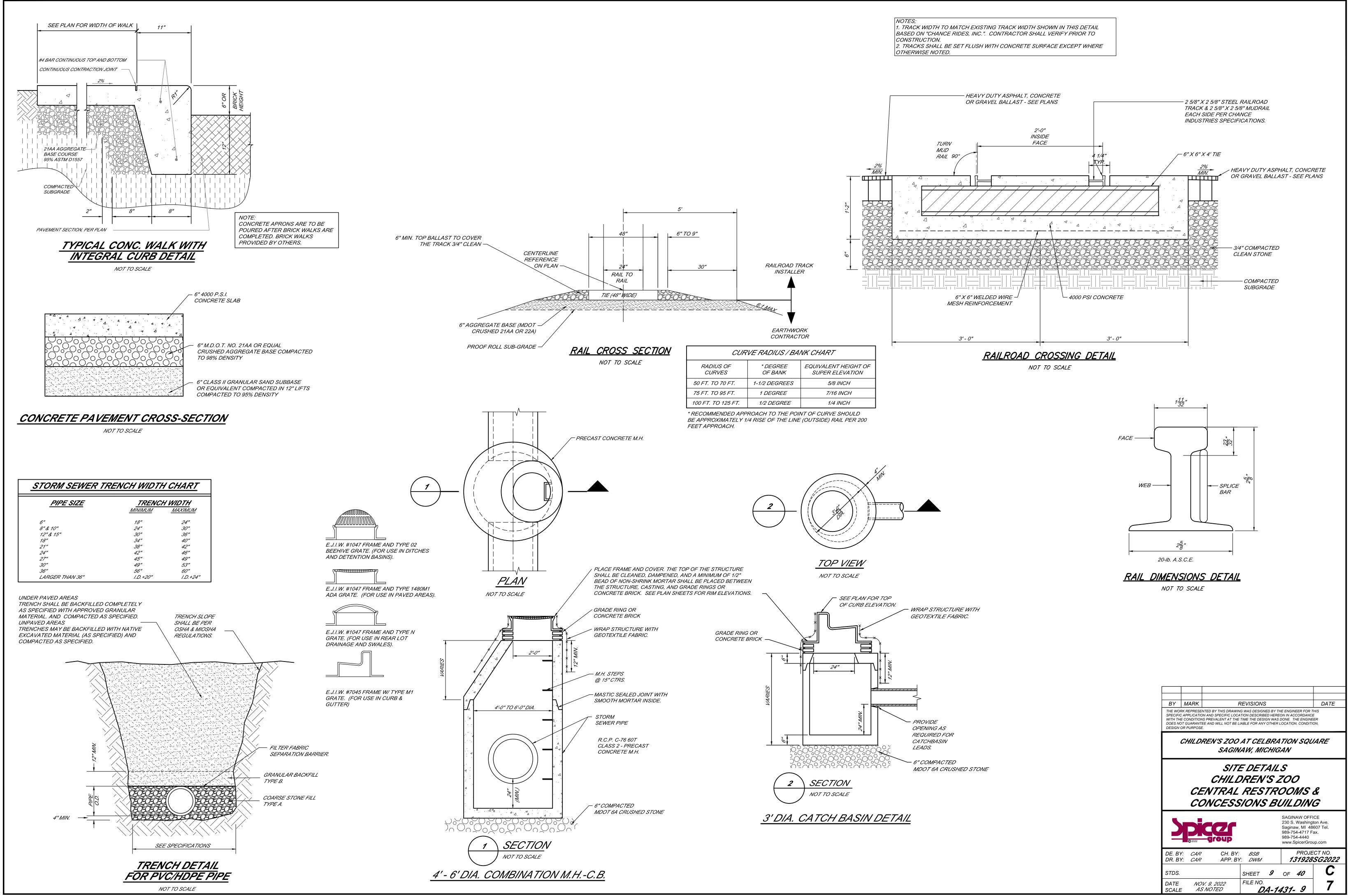
SECTION 25 T.12 N. - R.4 E. CITY OF SAGINAW, SAGINAW COUNTY, MICHIGAN

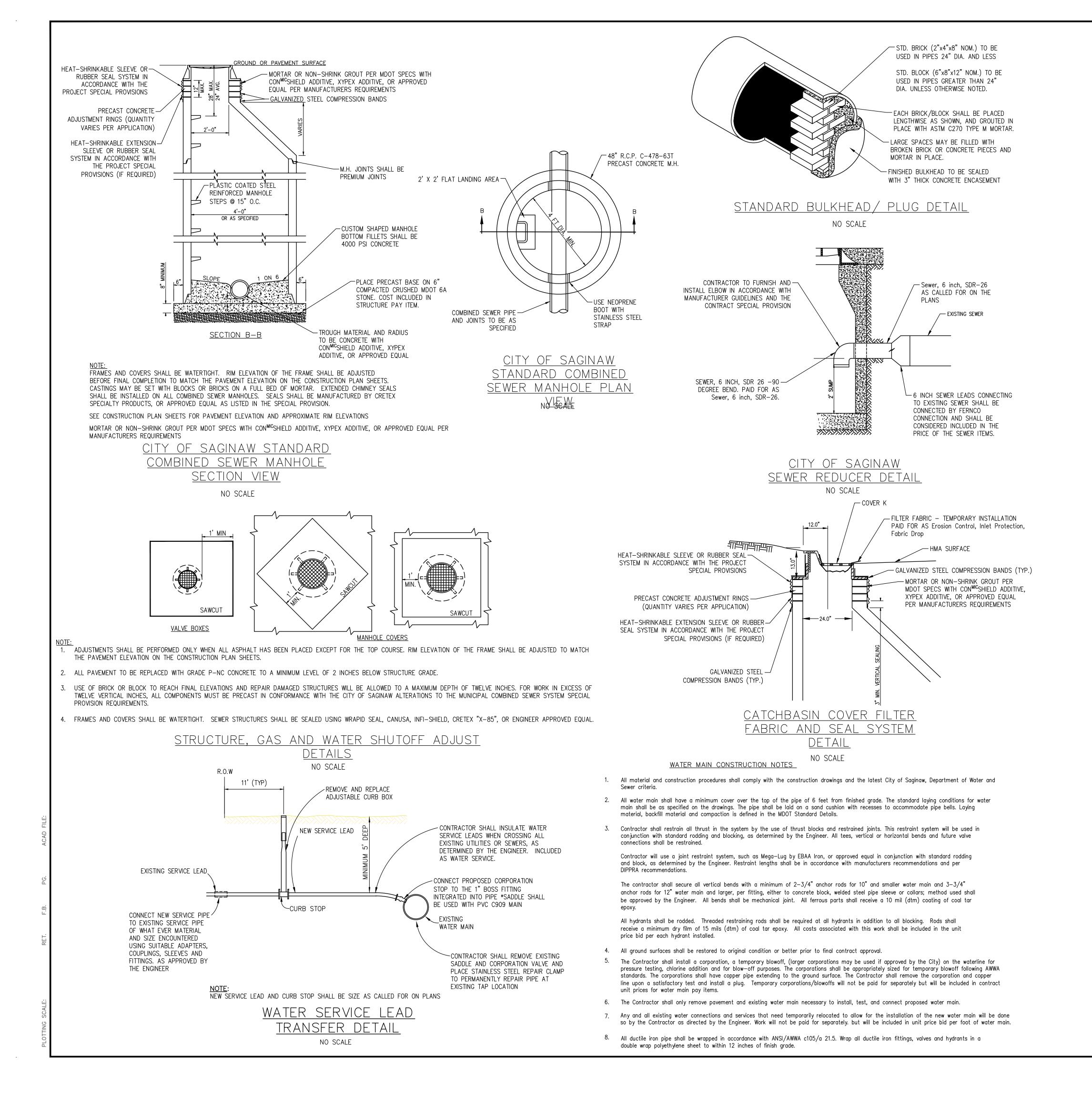
- 1. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE AGENCY HAVING JURISDICTION.
- AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MANMADE OPEN DITCHES, STREAMS, STORM DRAINS) LAKES)AND PONDS.
- 3. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES, AND ANY NECESSARY REPAIRS SHALL BE PERFORMED' WITHOUT DELAY.
- 4. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION, SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OF SILT OFF THE SITE.
- 5. CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES. HE SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER EARTH CHANGES HAS BEEN ACCOMPLISHED AND APPROVED BY THE AGENCY WITH
- 6. DEBRIS FROM THE PROJECT SHALL BE LEFT ON THE SITE BY DELIVERY OR CONSTRUCTION VEHICLES THROUGH THE USE OF CLEAN STONE EXITS. SHOULD THE STONE BECOME INEFFECTIVE IT WILL BE REPLACED. ALL CONSTRUCTION TRAFFIC WILL USE THE CLEAN STONE EXITS.
- 7. IMMEDIATELY AFTER SEEDING, MULCH ALL SEEDED AREAS WITH UNWEATHERED SMALL GRAIN STRAW OR HAY SPREAD UNIFORMLY AT THE RATE OF 1 - 1 /2 TO 2 TONS PER ACRE. ANCHOR MULCH WITH DISC-TYPE MULCH ANCHORING TOOL OR OTHER MEANS AS APPROVED BY THE AGENCY WITH
- 8. ALL MUD, DIRT, AND DEBRIS TRACKED OR SPILLED ONTO EXISTING ROADS FROM THIS SITE SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
- 9. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 15 CALENDAR DAYS AFTER FINAL GRADING OR FINAL EARTH CHANGES HAVE BEEN COMPLETED WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER AN EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGE ACTIVITY CEASES, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IMMEDIATELY ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE ESTABLISHED. ALL, PERMANENT SOIL EROSION CONTROL MEASURES WILL BE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED ALL DRAIN BANKS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITHIN FIVE CALENDAR DAYS AND SOD PEGGED IN PLACE.
- 10. PARTICULAR CARE SHOULD BE TAKEN WHEN WORKING ALONG THE PERIMETER OF THE SITE. IN NO EVENT SHALL WORK AREA EXTEND BEYOND THE
- 11. SHOULD IT BE NECESSARY FOR THE CONTRACTOR TO DEWATER THE GROUND IN THE COURSE OF CONSTRUCTING THE PROPOSED UTILITY, THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY SOIL EROSION CONTROL DEVICE IN A MANNER THAT WILL FILTER ALL DISCHARGED WATER FROM THE DEWATERING OPERATION IN NO INSTANCE SHALL THE DEWATERING DISCHARGE BE PERMITTED TO FLOW UNFILTERED FROM THE
- 12. THE CONTRACTOR SHALL CONTROL THE DUST ON THE SITE DURING THE LIFE OF THE CONTRACT. IN ACCORDANCE WITH THE SPECIFICATIONS AND THE REQUIREMENTS OF THE COMMUNITY THIS DUST CONTROL SHALL BE ACCOMPLISHED BY THE APPLICATION OF A POSITIVE DUST PICK-UP METHOD WITH WATER ON HARD SURFACES. SUCH DUST CONTROL MATERIALS SHALL BE APPLIED AS OFTEN AS IS NECESSARY IN THE OPINION OF
- 13. SHOULD THE SOIL EROSION CONTROL REQUIREMENTS BE NEGLECTED OR NOT ADEQUATELY FOLLOWED, THE COMMUNITY MAY REQUIRE THE CONTRACTOR TO CEASE CONSTRUCTION OPERATIONS AND TO APPLY HIS ENTIRE FORCE TO MEET THE REQUIREMENTS BEFORE PROCEEDING
- 14. ALL WORK CONNECTED WITH SOIL EROSION AND SEDIMENTATION CONTROL) EITHER TEMPORARY OR PERMANENT, AS REQUIRED BY THE SOIL EROSION CONTROL PERMIT, IS TO BE IMPLEMENTED DURING CONSTRUCTION.

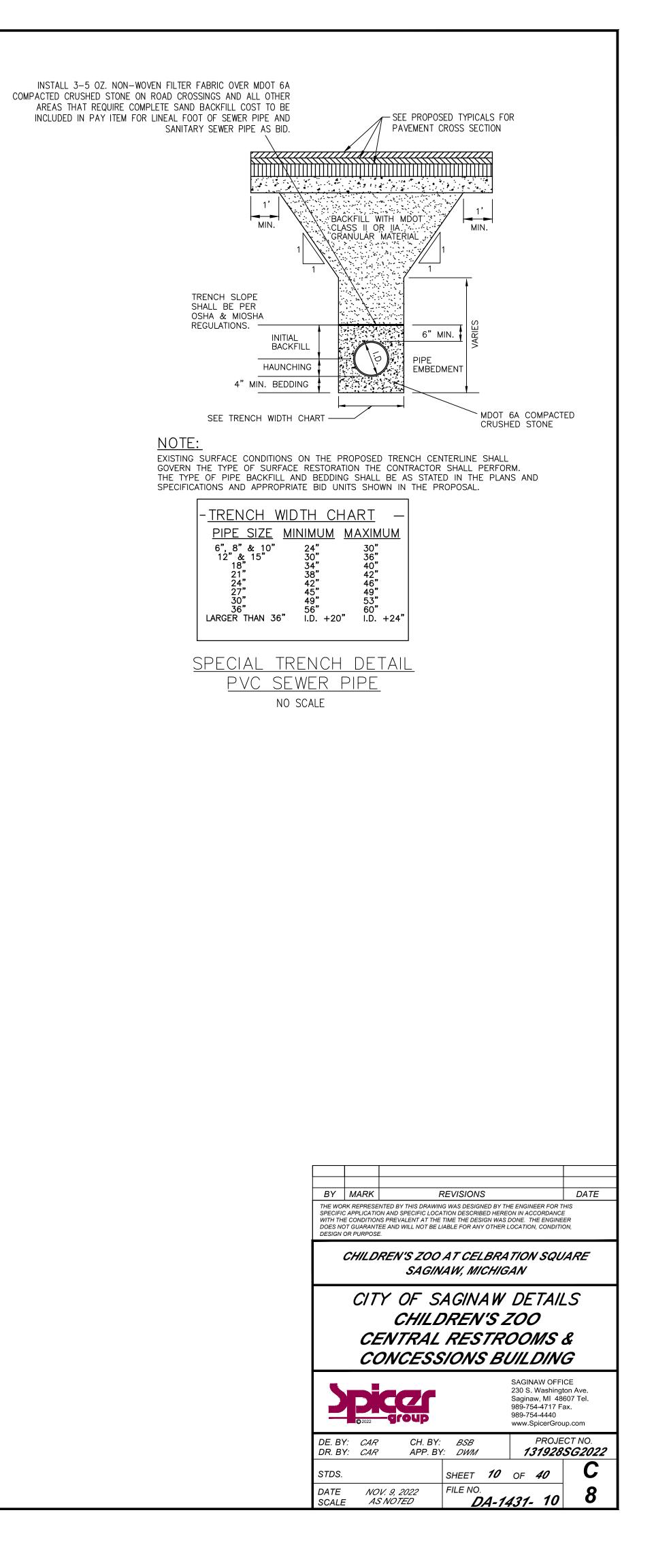
- 1. INSTALL ALL TEMPORARY SOIL EROSION CONTROL MEASURES PRIOR TO DISTURBING ANY EARTH ON THE SITE.
- 2. STABILIZE SLOPES STEEPER THAN 1 ON 4, CHANNELS AND SWALES WITHIN 7 DAYS OF EARTH DISTURBANCE. INSTALL PERMANENT STABILIZATION
- 3. DURING STORM SEWER INSTALLATION, ALL NEWLY CONSTRUCTED DRAINAGE STRUCTURES SHALL BE PROTECTED WITH A DRAINAGE STRUCTURE
- 4. INSTALL TOPSOIL, AND HYDROSEED ON DISTURBED RIGHT-OF-WAY WITHIN 5 DAYS OF COMPLETING UTILITY INSTALLATION.
- 5. PLACE RIPRAP WITHIN 24 HOURS OF PLACING END SECTIONS OR OTHER DRAINAGE OUTLETS.
- 6. CLEAN ALL ACCUMULATED SEDIMENT FROM CATCH BASINS, SEWERS AND PAVEMENT AREAS AS REQUIRED FOLLOWING COMPLETION OF
- 7. THE EXACT SCHEDULE OF SOIL EROSION AND SEDIMENTATION CONTROL EVENTS (WITH DAY AND/OR DATES OF THE VARIOUS ACTIVITIES) SHALL

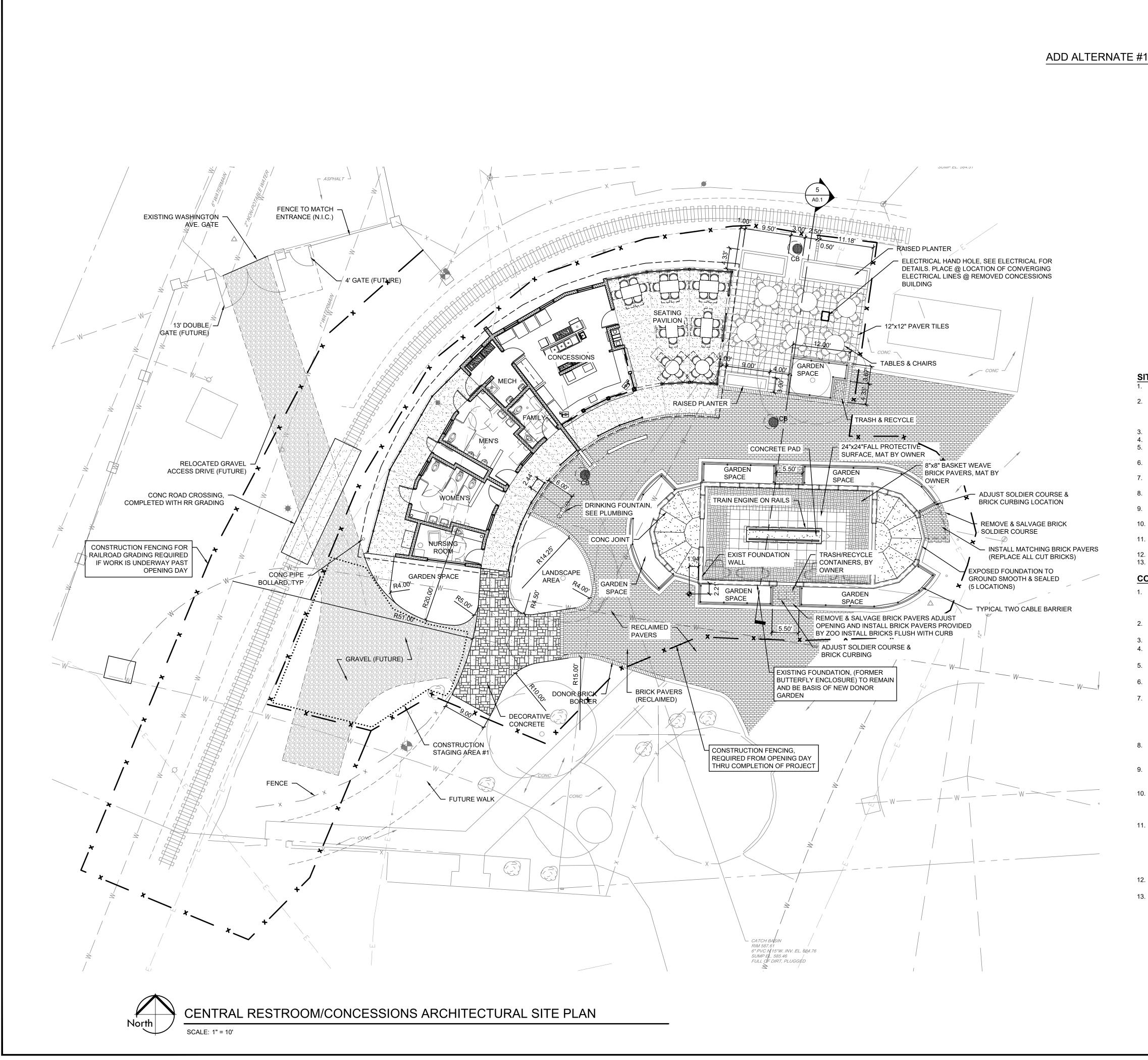
NEAREST W	ATER BODY								
SAGINAW RIVER			BY	MARK		REVISIONS		DATE	
TIMING SEQU	<u>UENCE</u>		SPECIF WITH TI DOES N	IC APPLICATION HE CONDITIONS	I AND SPECIFIC LOC PREVALENT AT THE	ATION DESCRIBED HE	THE ENGINEER FOR 1 REON IN ACCORDANC AS DONE. THE ENGINE R LOCATION, CONDITI	E ER	
OPERATION		SCHEDULE	CHILDREN'S ZOO AT CELBRATION SQUARE						
TEMPORARY CO	NTROL MEASURES		CHILDH		AT CELBR	•	IARE		
STRIPPING/STOC	CKPILING OF SOIL								
ROUGH GRADIN	G/SEDIMENTATION CONTROL		SOIL EROSION PLAN						
STORM UTILITIES	S				CHILL	DREN'S	<i>ZOO</i>		
PERMANENT CO	NTROL MEASURE		CENTRAL RESTROOMS &						
SITE CONSTRUC	CTION			CC	NCESS	SIONS B	BUILDIN	G	
FINISH GRADING	3						SAGINAW OFF 230 S. Washing		
* SCHEDULE TO	BE FILLED OUT BY CONTRACTO	DR/PERMITEE.					Saginaw, MI 48 989-754-4717 F	3607 Tel.	
SOILS INFOR	RMA TION			© 2022	-group		989-754-4440 www.SpicerGro	up.com	
SYMBOL	TYPE		DE. B DR. B		CH. BY APP. B			ECT NO. SG2022	
63A	URBAN LAND-TAPPAN CO 0 TO 3 PERCENT SLOPES	· · · · · · · · · · · · · · · · · · ·			AFP. D			<u> </u>	
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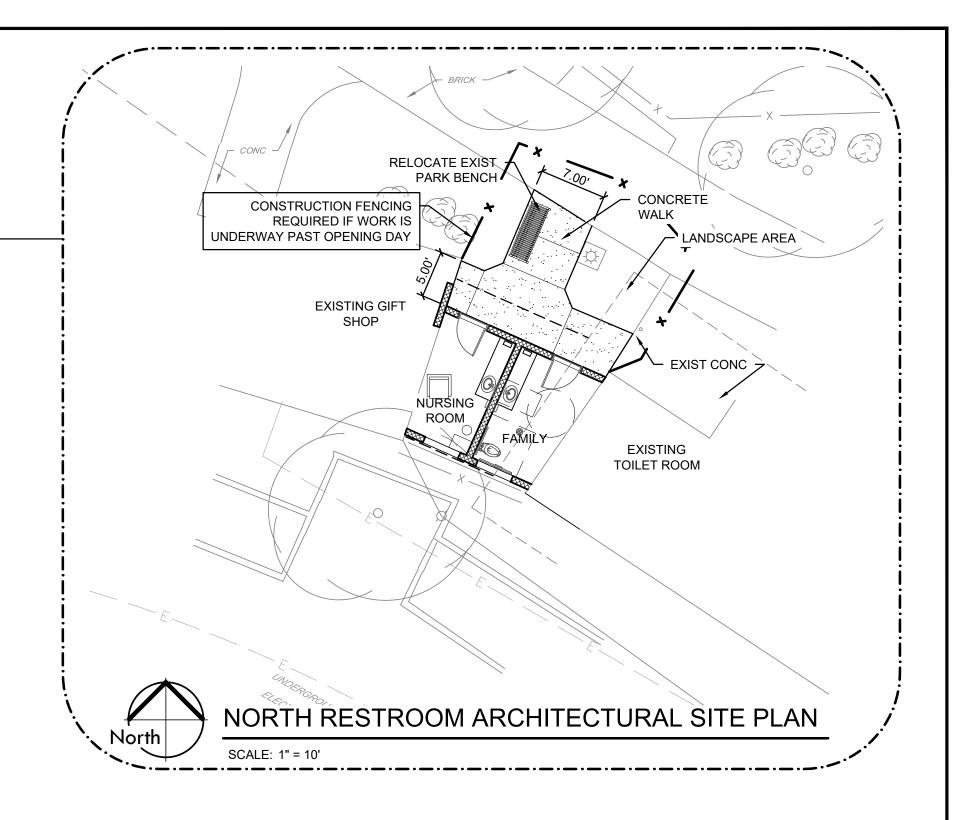
DA-1431- 8











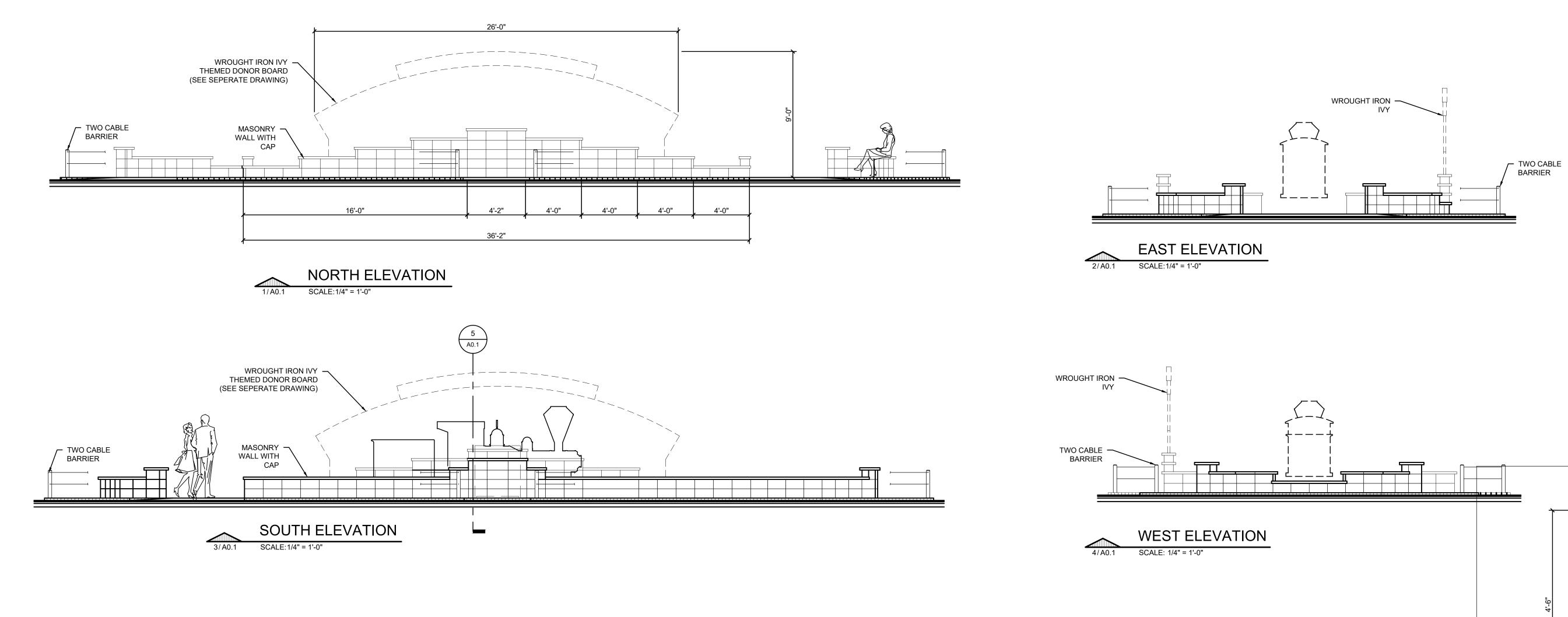
SITE GENERAL NOTES:

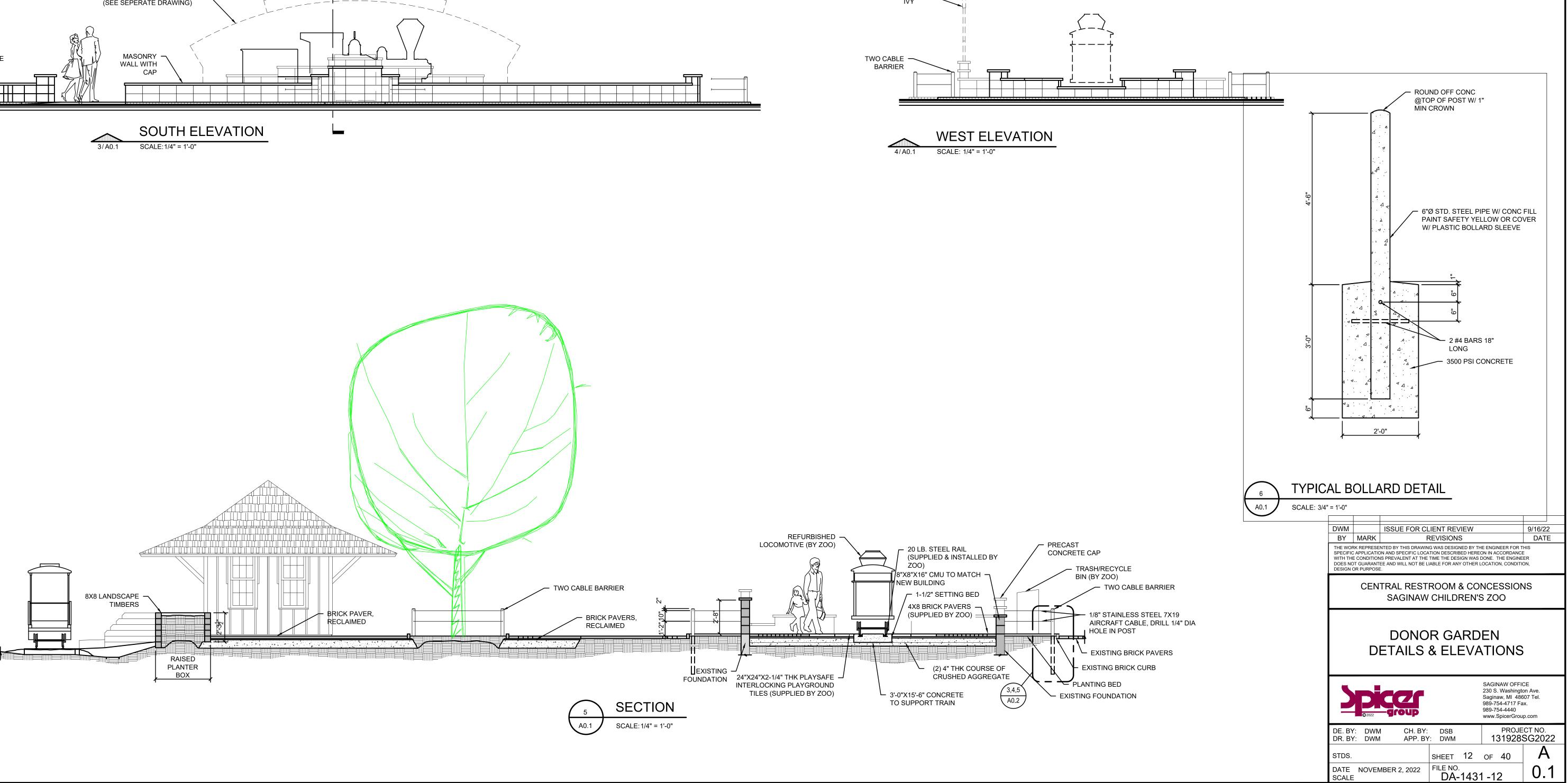
- CONTRACTOR MUST PROVIDE CONSTRUCTION FENCING DURING ZOO OPERATING DAYS (MAY - OCTOBER) 2. CONTRACTOR SHALL CONTACT ZOOD DIRECTOR OF PHYSICAL PLANT & FACILITIES PLANNING FOR LOCATING ALL UNDERGROUND UTILITIES
- WITHIN THE ZOO PROPERTY. THE CONTRACTOR MUST STILL CONTACT MISS DIG AT 811. 3. WORK HOUR SHALL BE FROM 7 AM TO 8 PM MONDAY THRU SATURDAY. 4. CONTRACTOR SHALL PROTECT ADJACENT EXHIBITS FROM DAMAGE.
- 5. ALL CONSTRUCTION EQUIPMENT SHALL ENTER THROUGH WASHINGTON AVENUE GATE. 6. SEE SITE MAP ON COVER SHEET FOR CONTRACTOR STAGING AREA #1,
- #2 AND CONTRACTOR PARKING. 7. ALL MATERIALS NOTED AS "BY OWNER" SHALL BE INSTALLED BY
- CONTRACTOR. 8. CONTRACTOR MUST MAINTAIN TOILET FACILITIES, FIRE EXTINGUISHERS AND FIRST AID EQUIPMENT ON SITE AT ALL TIMES.
- 9. DECORATIVE CONCRETE REFERS TO STAMPED AND COLORED CONCRETE, OWNER TO CHOOSE PATTERN AND COLOR. 10. TRAIN ENGINE AND IT'S PLACEMENT BY OTHERS, CONTRACTOR TO PROVIDE CONCRETE AND EMBED RAILS (BY OWNER).
- 11. RAISED PLANTER BED TO BE CONSTRUCTED FROM TREATED LANDSCAPE TIMBERS.
- 12. SEE CIVIL DRAWINGS FOR ALL GRADING AND UTILITY INFORMATION .. 13. FOR SITE GEOMETRY, A0.0 SHALL PREVAIL OVER CIVIL DRAWINGS.

CONCRETE AND ACCESSORIES:

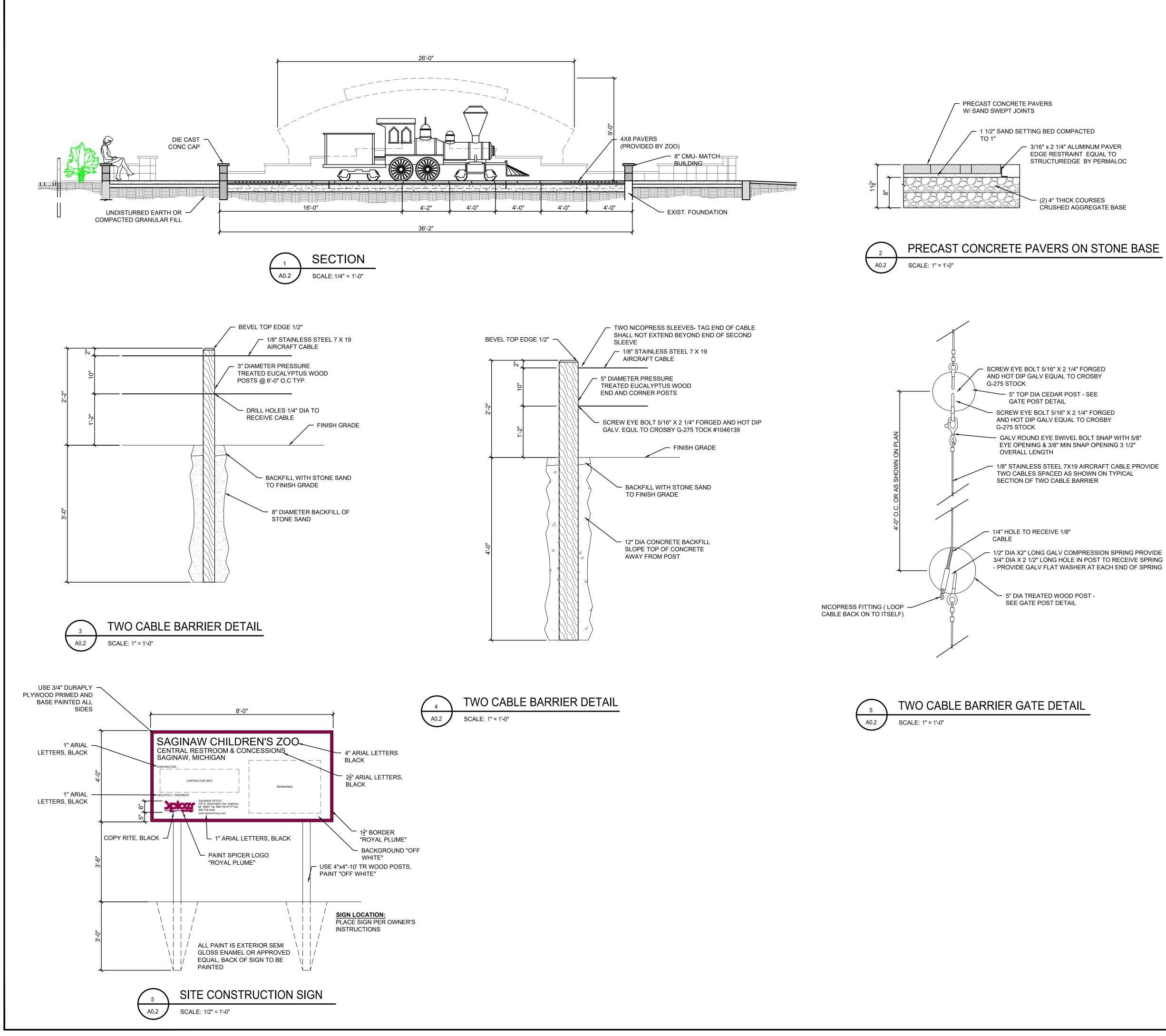
- 1. ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 301 AND ACI 350. CONCRETE PLACED IN COLD WEATHER SHALL CONFORM TO ACI-306R. CONCRETE PLACED IN HOT WEATHER SHALL
- CONFORM TO ACI-305R. 2. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- 3. CONCRETE SHALL HAVE A SLUMP RANGE OF 2"-4".
- 4. CONCRETE SUBJECT TO FREEZE/THAW CYCLES SHALL HAVE A AIR CONTENT OF 5%-7% BY VOLUME PER ASTM C260. 5. FINE AGGREGATE AND COARSE AGGREGATE SHALL CONFORM TO
- ASTM C33. 6. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN TO OWNER FOR REVIEW AND APPROVAL.
- 7. NON-SHRINK GROUT SHALL CONFORM TO ASTM C1107 AND BE
- PREMIXED AND CONSIST OF COMPOUND CONSISTING OF NON-METALLIC AGGREGATE, CEMENT, WATER REDUCING AGENT AND
- PLASTICIZING AGENTS CAPABLE OF DEVELOPING MINIMUM COMPRESSIVE STRENGTHS OF 2,400 PSI IN 48 HOURS AND 7,000 PSI IN S8 DAYS.
- 8. CONCRETE REINFORCING STEEL SHALL CONFORM TO ASTM A615 AND HAVE A YIELD STRENGTH OF 60 ksi.. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO OWNER FOR REVIEW AND APPROVAL. 9. EPOXY FOR ANCHOR BOLTS AND REINFORCING STEEL SHALL BE HILTI-HY-200 EPOXY INJECTABLE MORTAR. INSTALL PER
- MANUFACTURERS INSTRUCTIONS.
- 10. THREADED ANCHOR RODS SHALL BE HILTI HAS-R ANCHOR RODS (PICK TYPE FOR PROJECT = HAS-E CARBON STEEL ZINC COATED, HAS-B HIGH STRENGTH STEEL, HAS-R 304 STAINLESS STEEL, HAS-R 316 STAINLESS STEEL)
- 11. PLYWOOD FORMWORK SHALL BE CONSTRUCTED OF 5-PLY DOUGLAS FIR, SOUND SHEETS WITH CLEAN, TRUE EDGES. STEEL FORMS SHALL BE SMOOTH, TRUE AND UNDAMAGED. ALL FORMWORK SHALL BE STIFFENED OR BRACED TO SUPPORT THE WEIGHT OF THE CONCRETE WITH MINIMUM DEFLECTION. DO NOT REMOVE FORMS OR BRACING UNTIL CONCRETE HAS GAINED SUFFICIENT STRENGTH TO CARRY ITS OWN WEIGHT AND IMPOSED LOADS.
- 12. PROVIDE 3/4" CHAMFER STRIPS ON EXTERNAL CORNERS OF VISUALLY EXPOSED CONCRETE CORNERS.
- 13. ALL EXPANSION JOINTS SHALL BE FORMED WITH JOINTING TROWEL AND NOT SAWCUT.

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N	ARCHITECTUALSITE PLAN CENTRAL RESTROOMS & CONCESSIONS NORTH TOILET ROOM ADDITION									
2	C © 2022	group			230 S Sagina 989-7 989-7	NAW OFFI0 . Washingto aw, MI 486 54-4717 Fa 54-4440 SpicerGrou	on Ave. 607 Tel. ax.			
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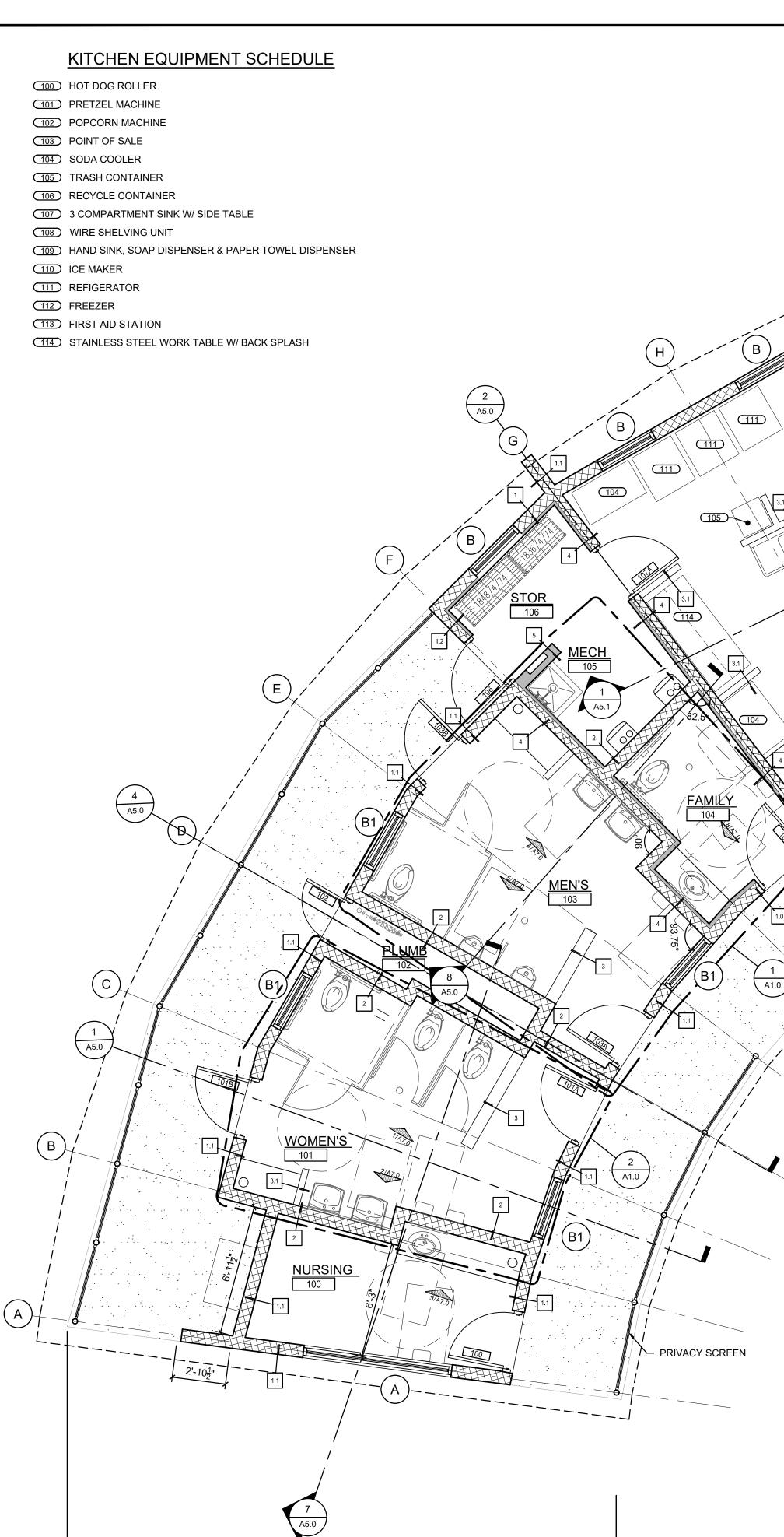
ISSUE FOR CLIENT REVIEW DWM 9/16/22 BY | MARK | REVISIONS DATE THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE. CENTRAL RESTROOM & CONCESSIONS SAGINAW CHILDREN'S ZOO DONOR GARDEN DETAILS SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com PROJECT NO. CH. BY: DSB APP. BY: DWM DE. BY: DWM 131928SG2022 DR. BY: DWM SHEET 13 OF 40 STDS. A

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DATE NOVEMBER 2, 2022 FILE NO.

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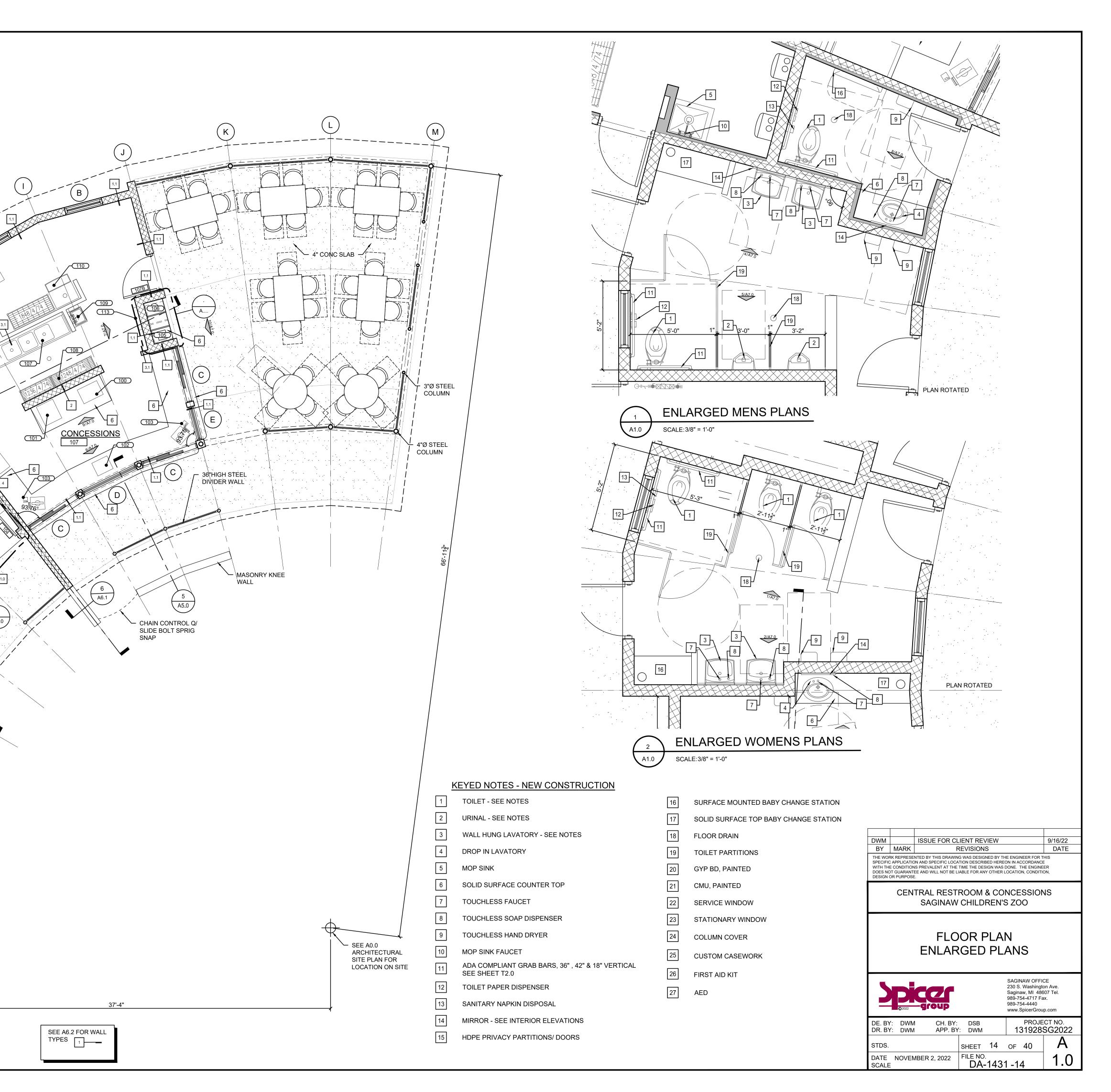
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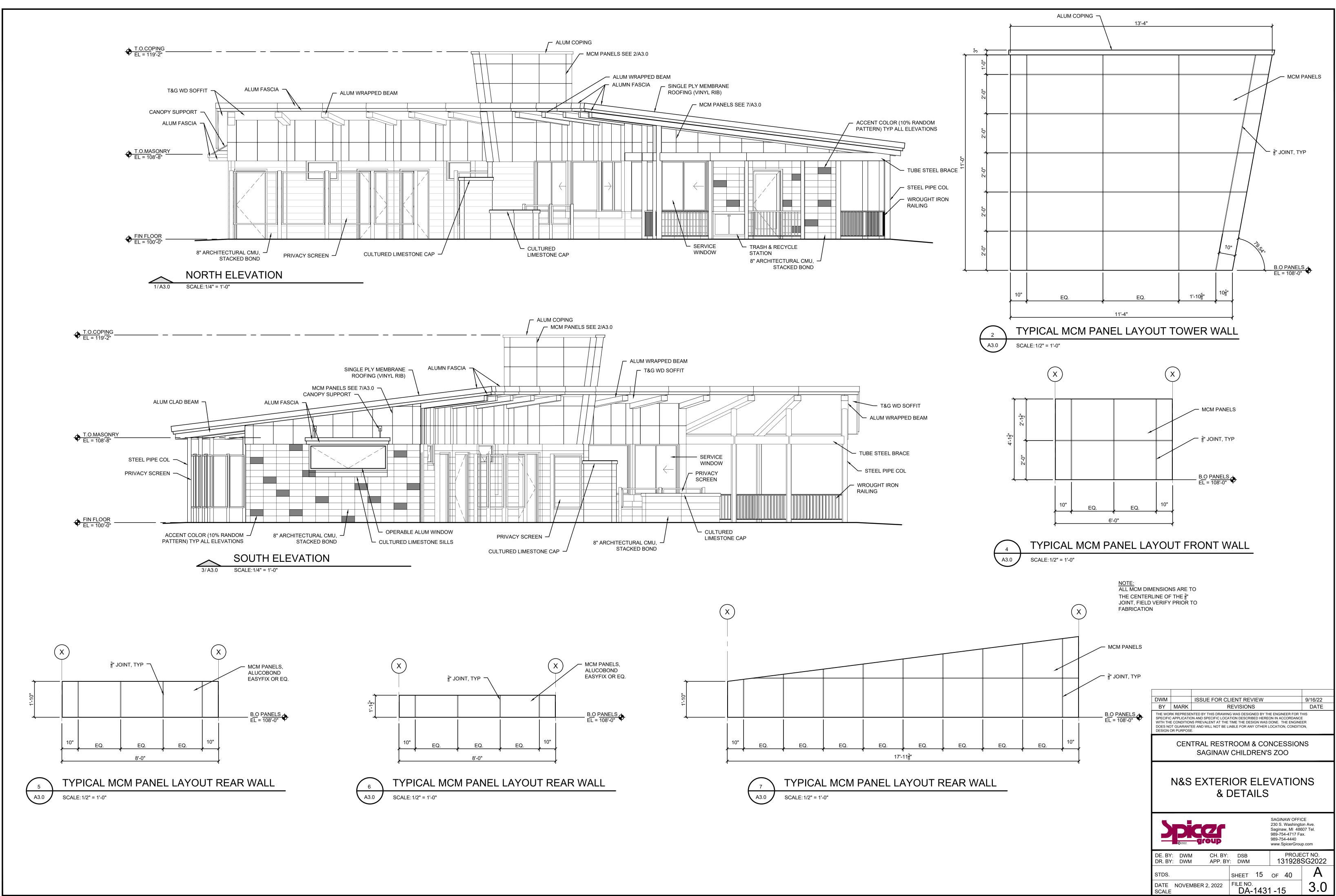
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FLOOR PLAN

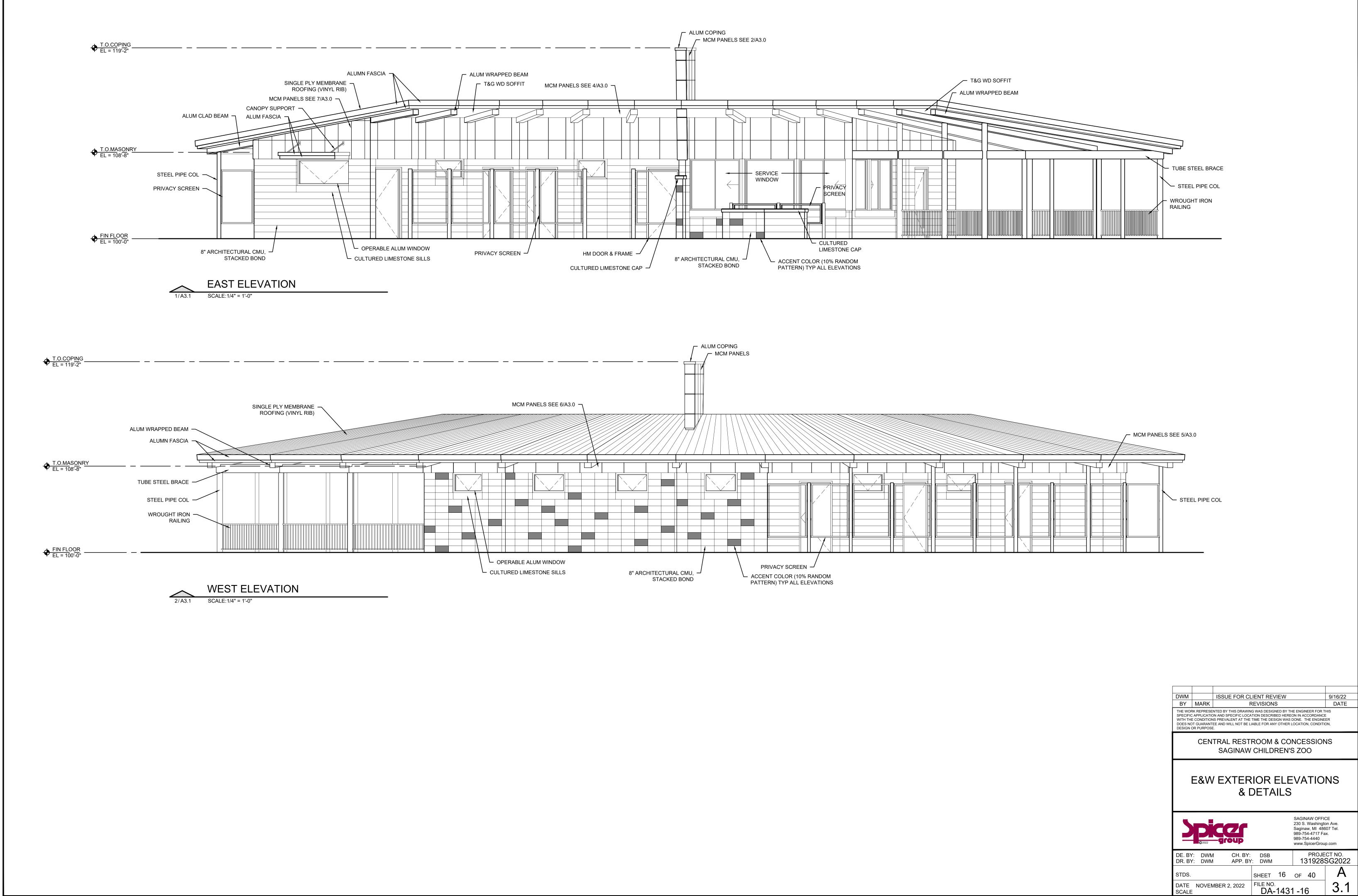
22 - Saginaw Children's ZoolDesign(CAD/ARCH/A1.0 - FLOOR PLANS.dwg - 11/10/2022 4:09:23 PM - Marr, David W. ;ALE: ;ALE:

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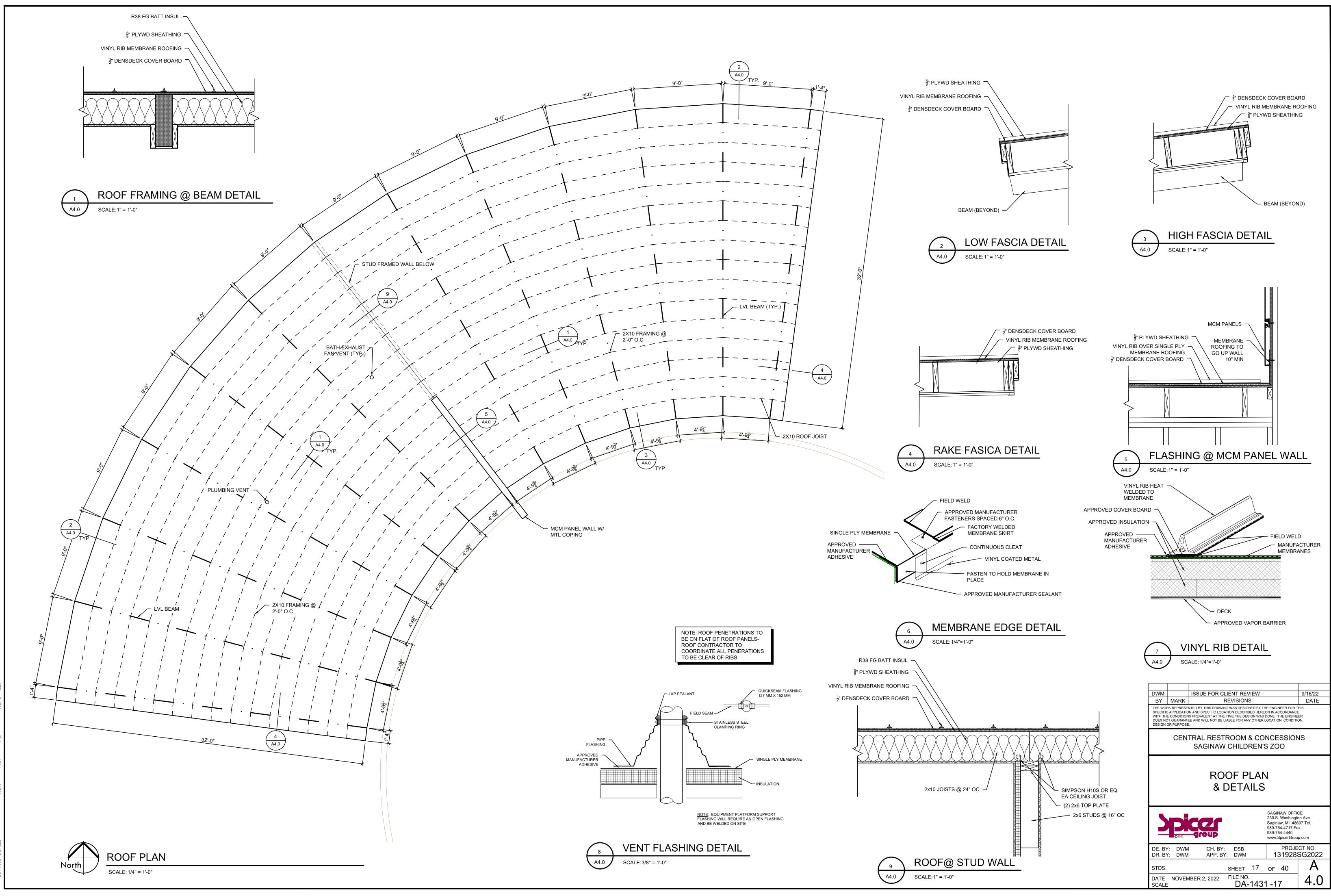




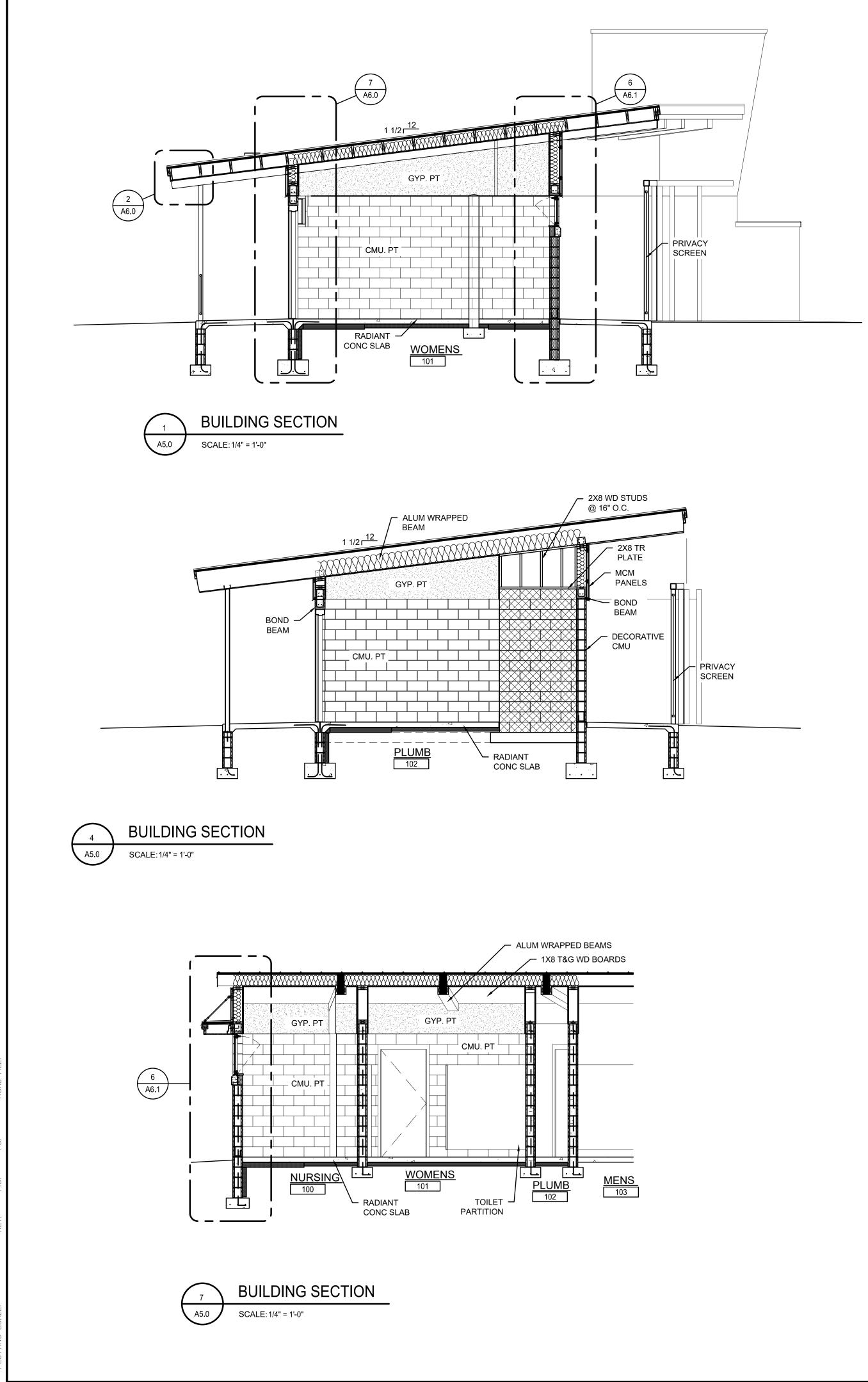
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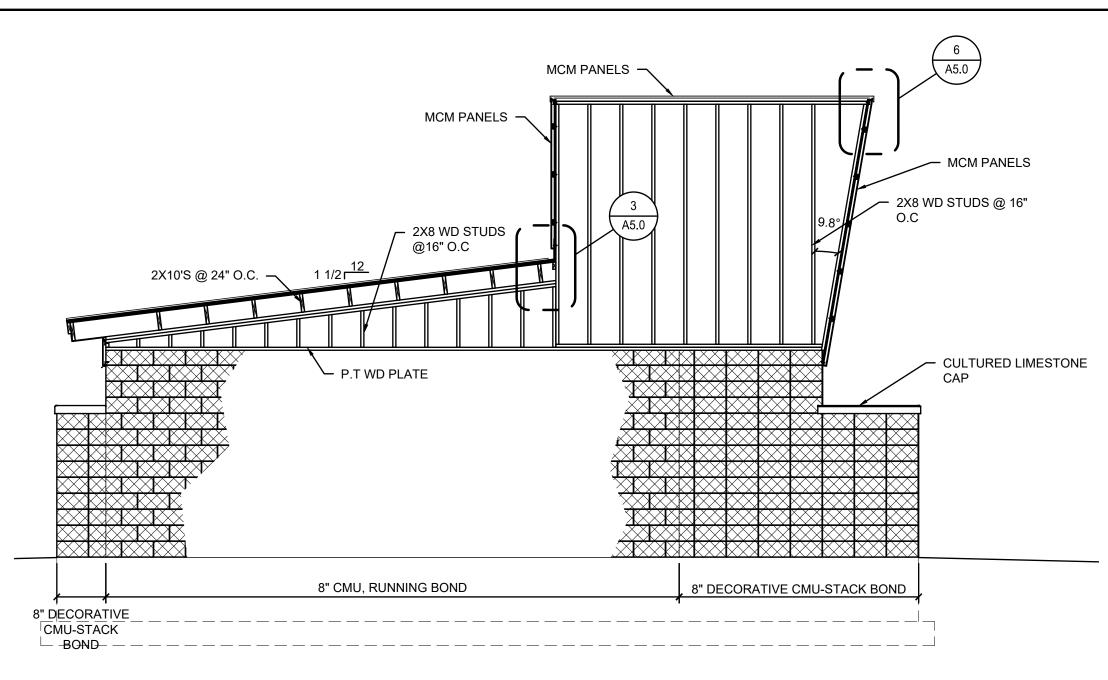


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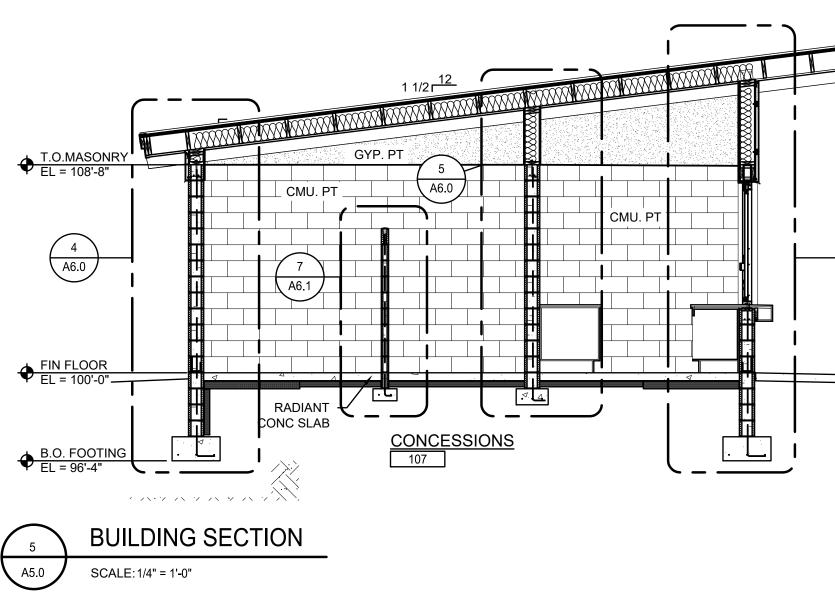


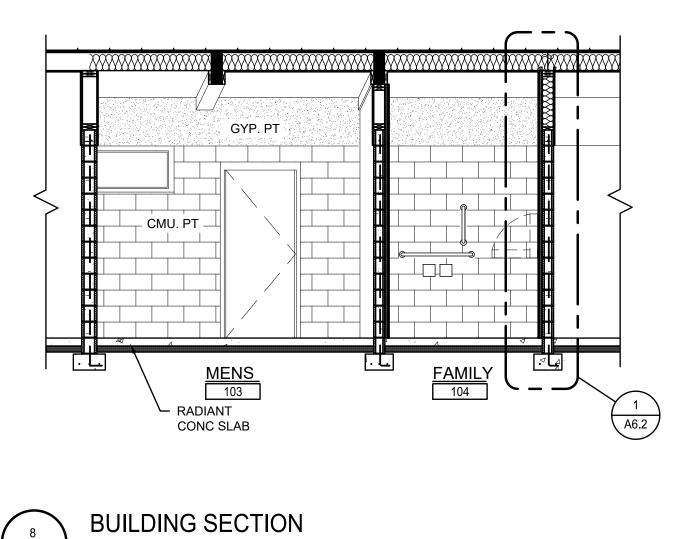
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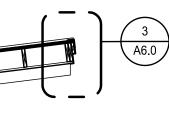


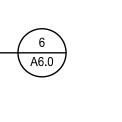


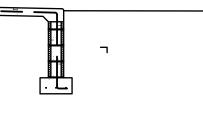
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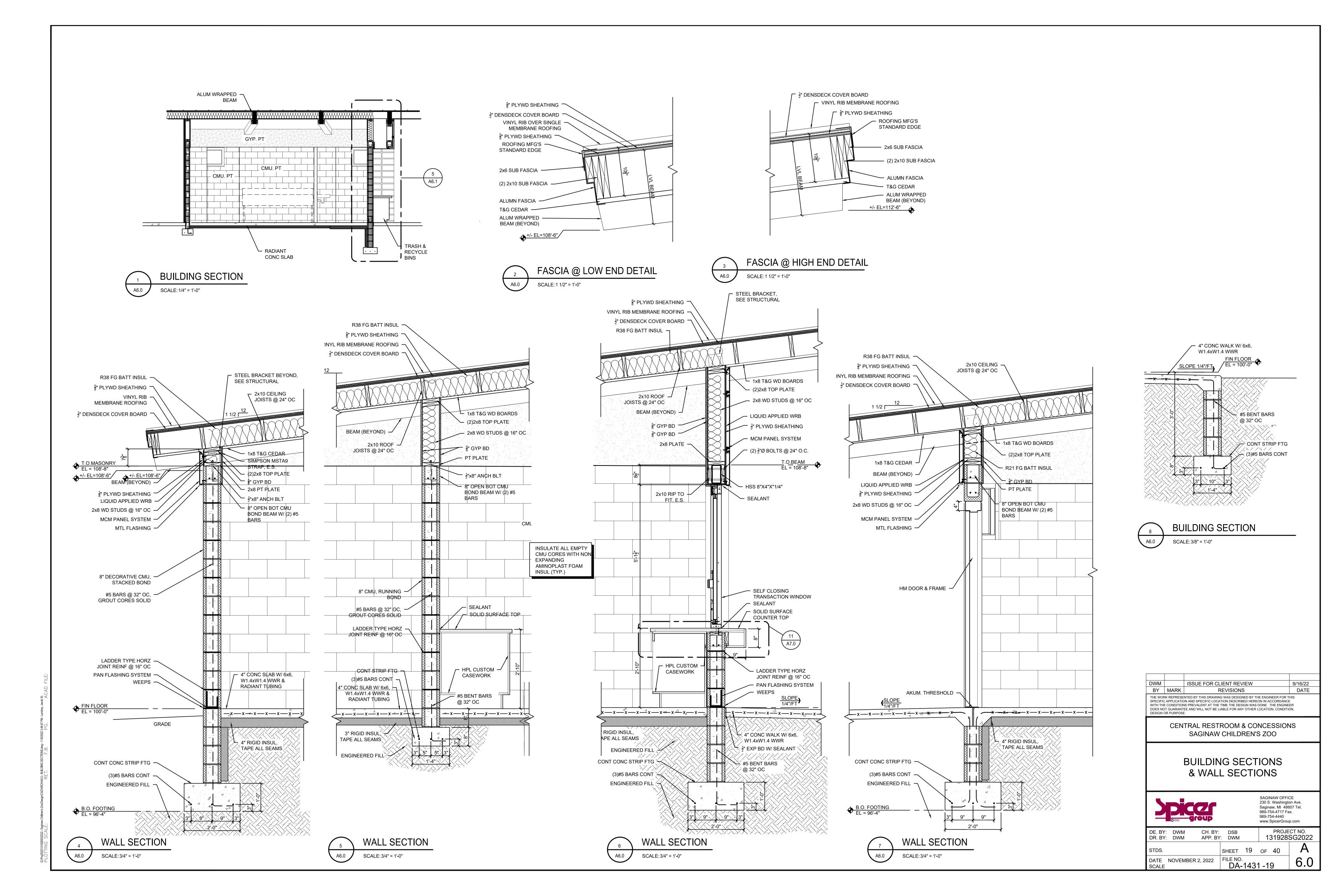


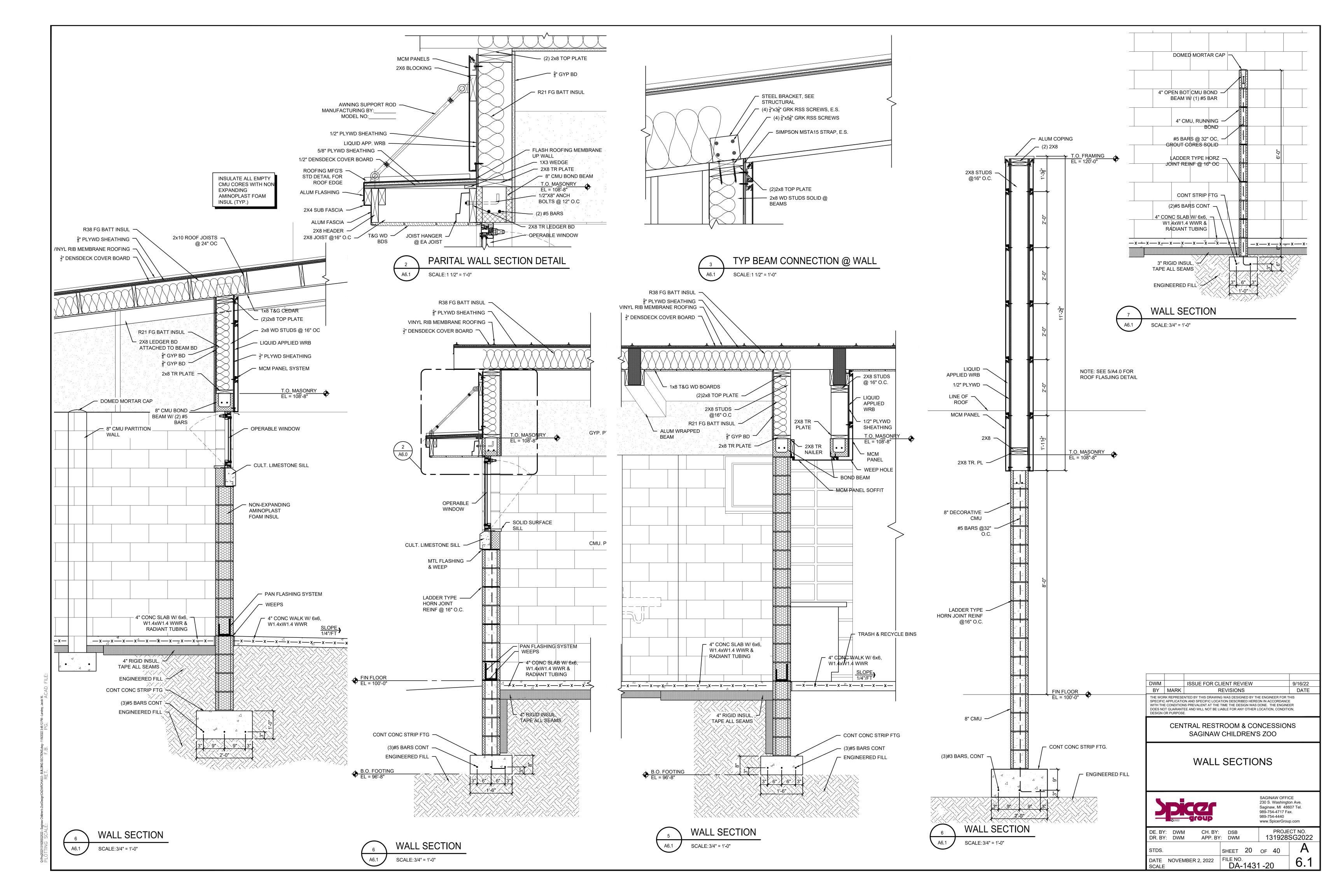


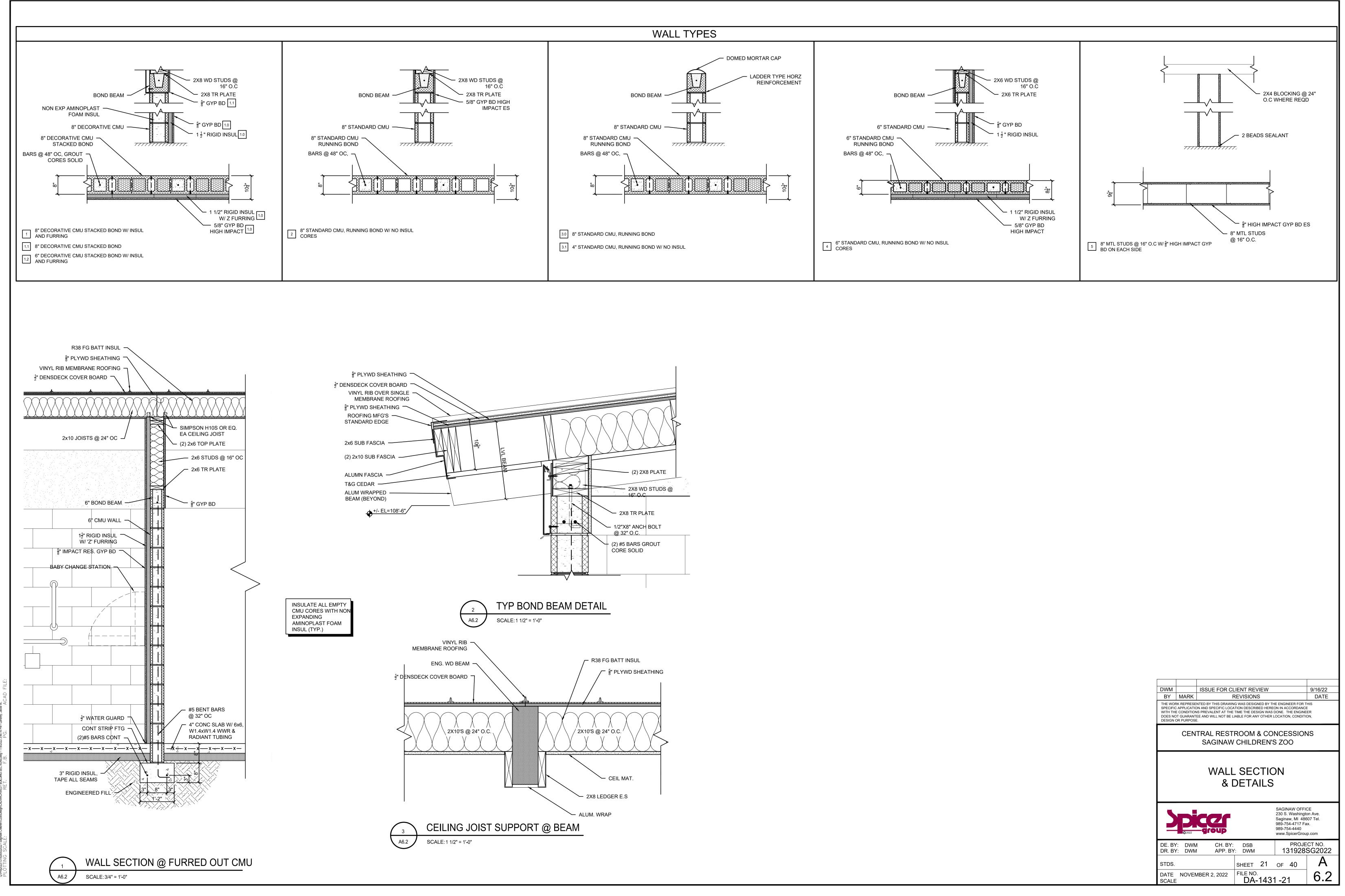


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2	© 2022	group	SAGINAW OFFI 230 S. Washingto Saginaw, MI 486 989-754-4717 Fa 989-754-4440 www.SpicerGrou	on Ave. 607 Tel. ix.						

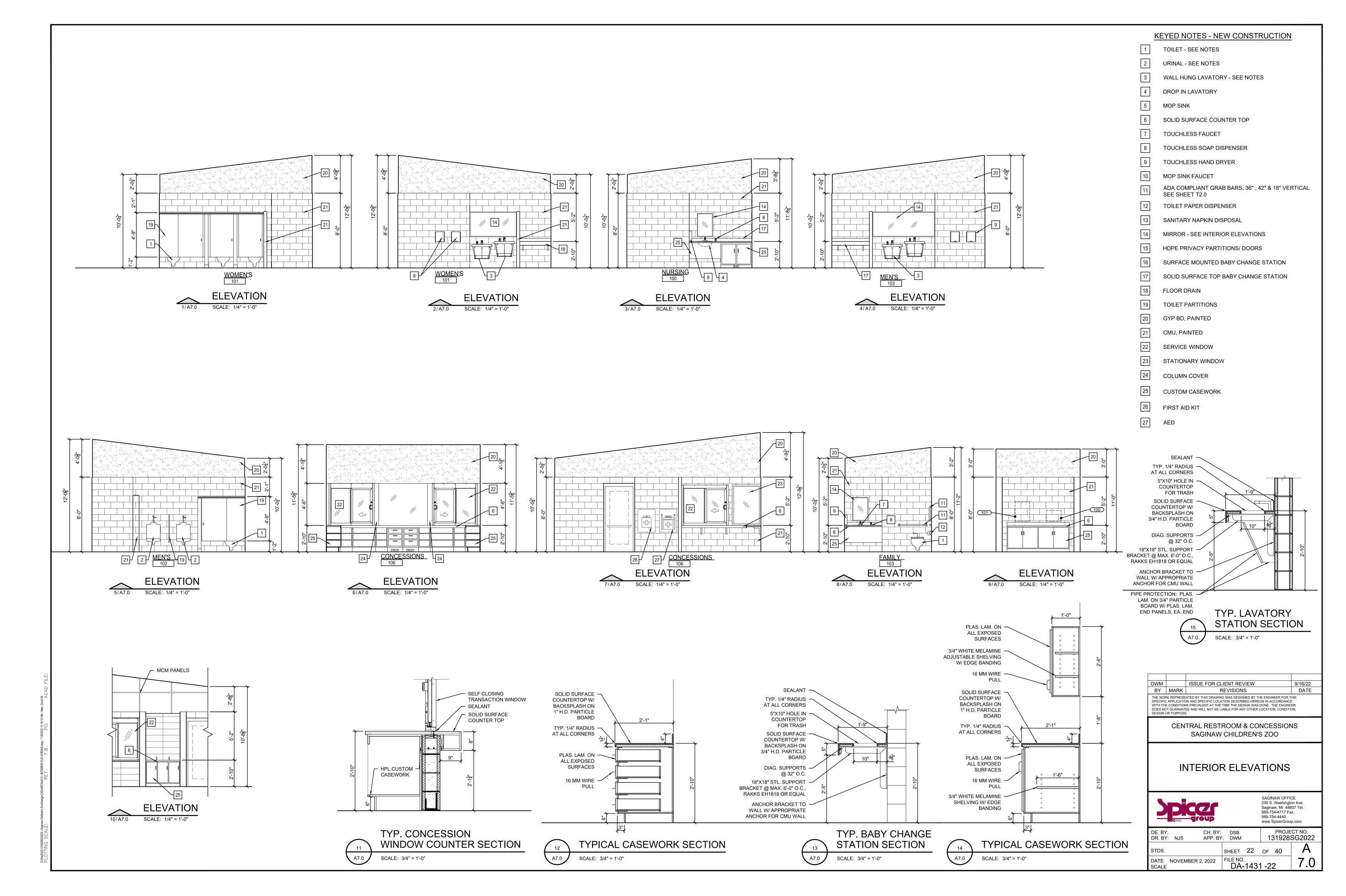
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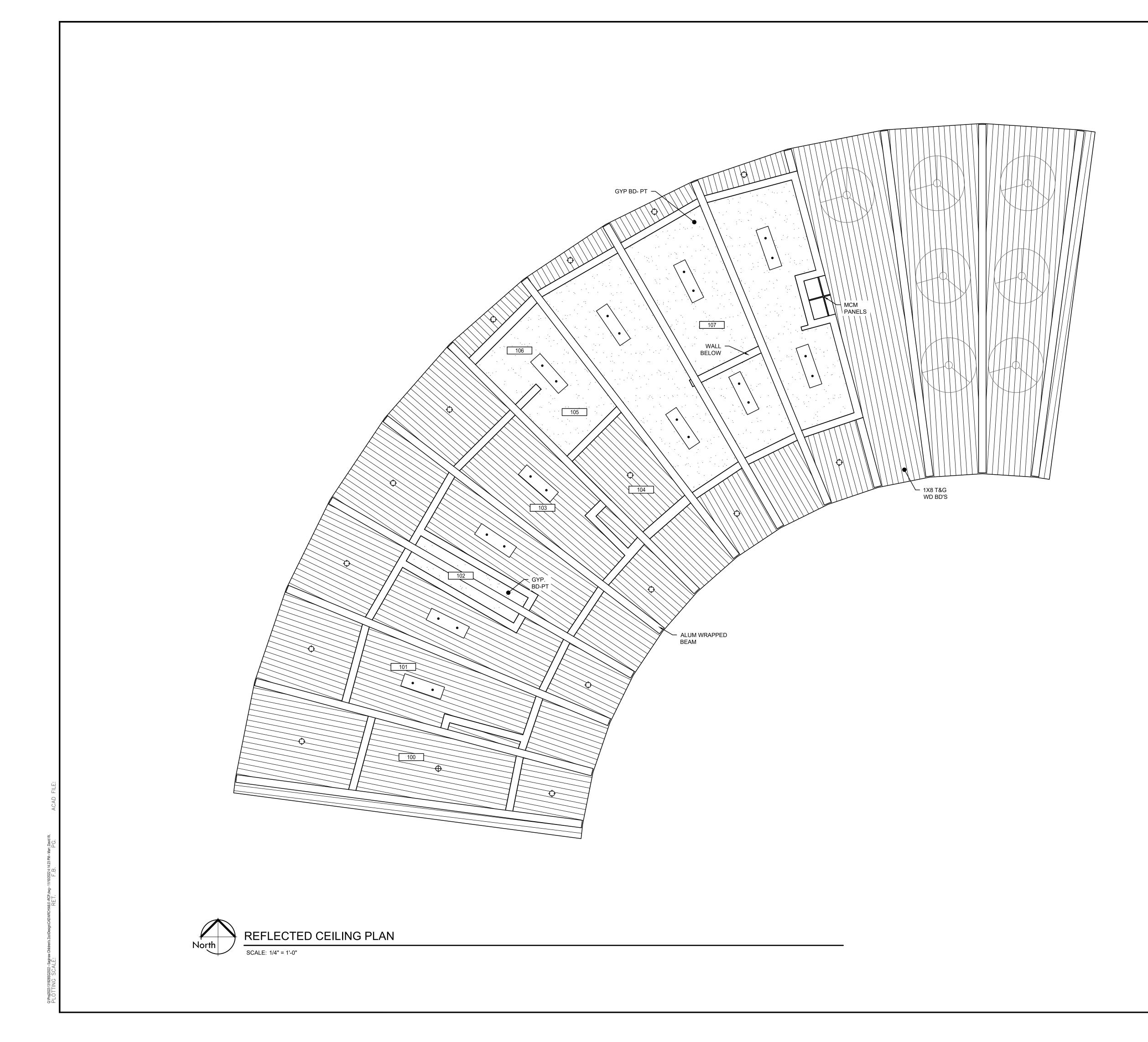






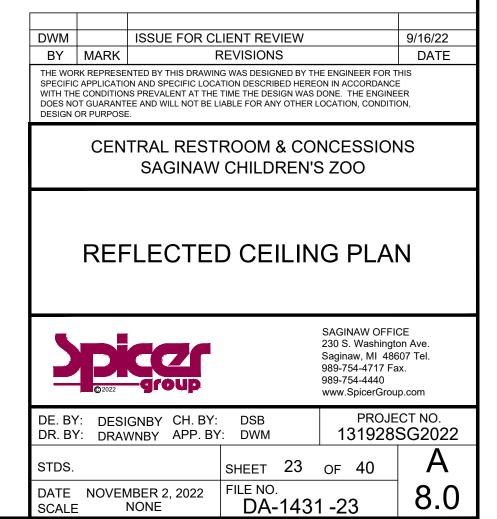
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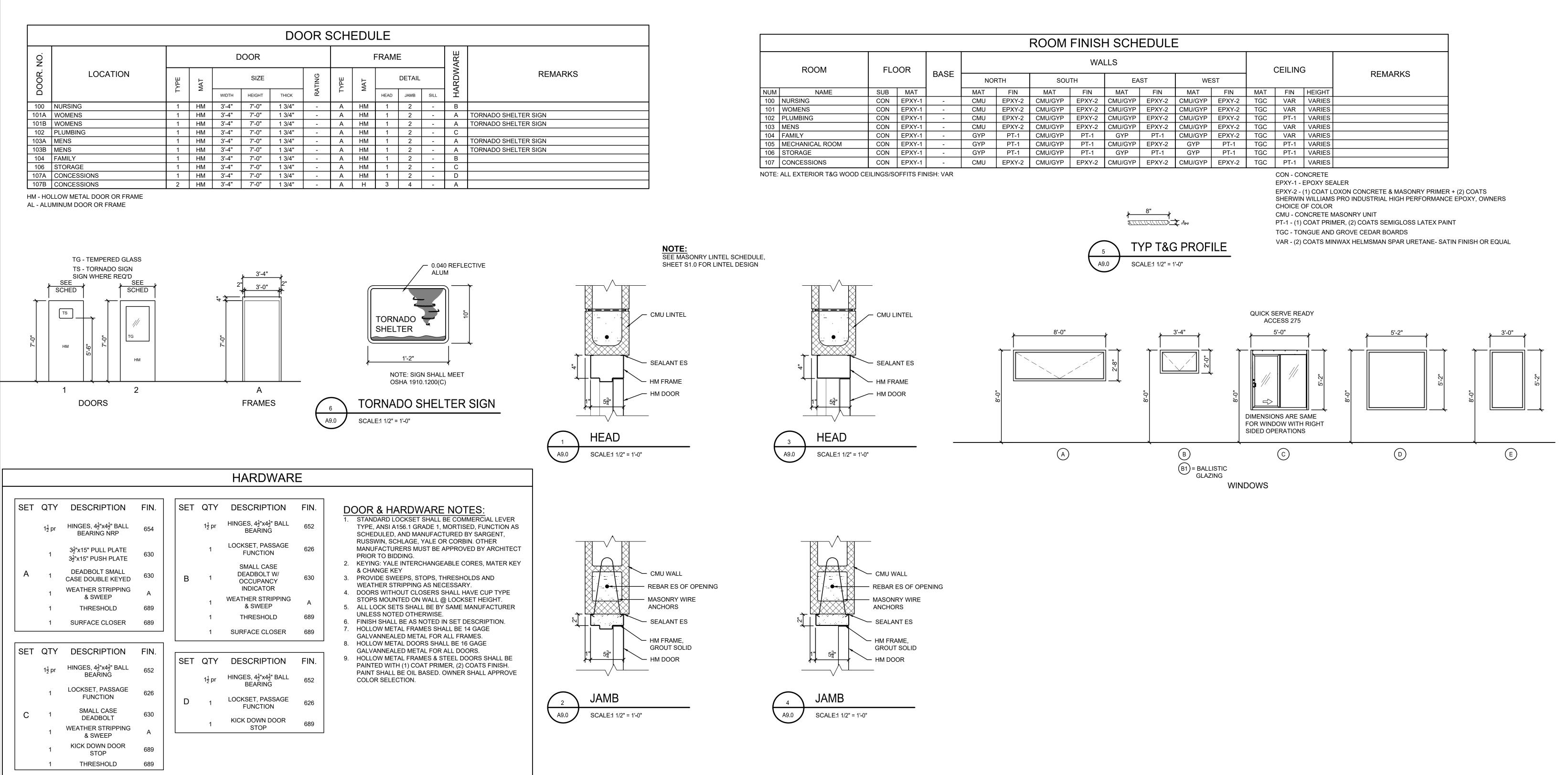




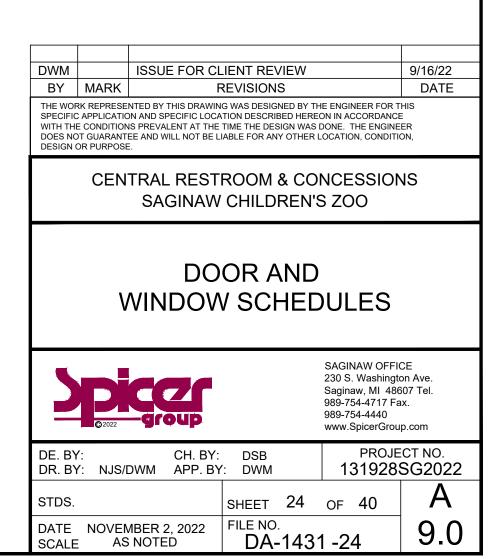
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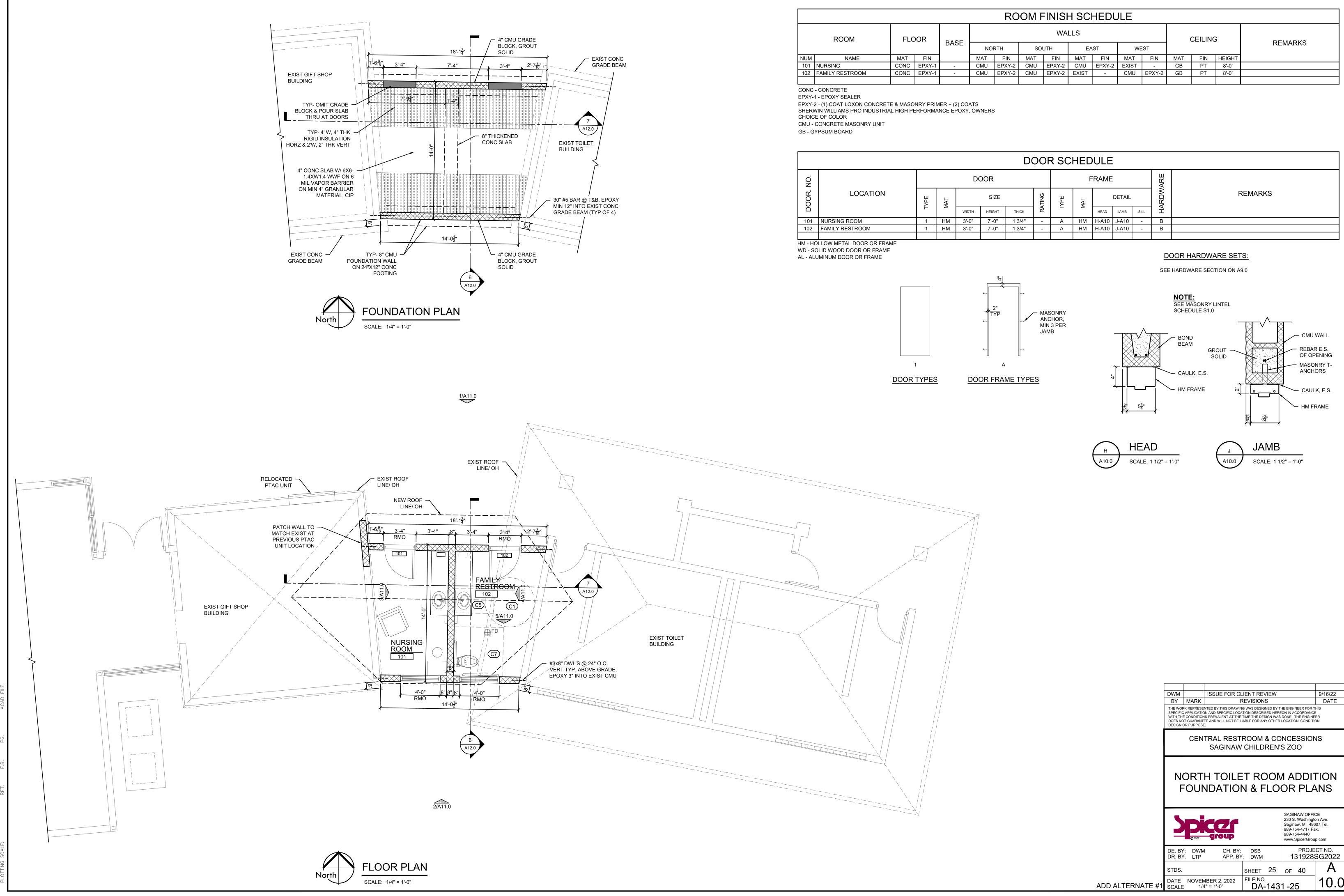
Ф	RECESSED CAN LIGHT FIXTURE
\oplus	PENDANT LIGHT FIXTURE
••	SURFACE MOUNT / SUSPENDED 2'x4' LIGHT FIXTURE
	INDICATES AN EMERGENCY LIGHT ON THE LIGHT FIXTURES ABOVE
€ +	EMERGENCY EXIT LIGHT
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	1X8 T&G WD SOFFIT
	CEILING FAN





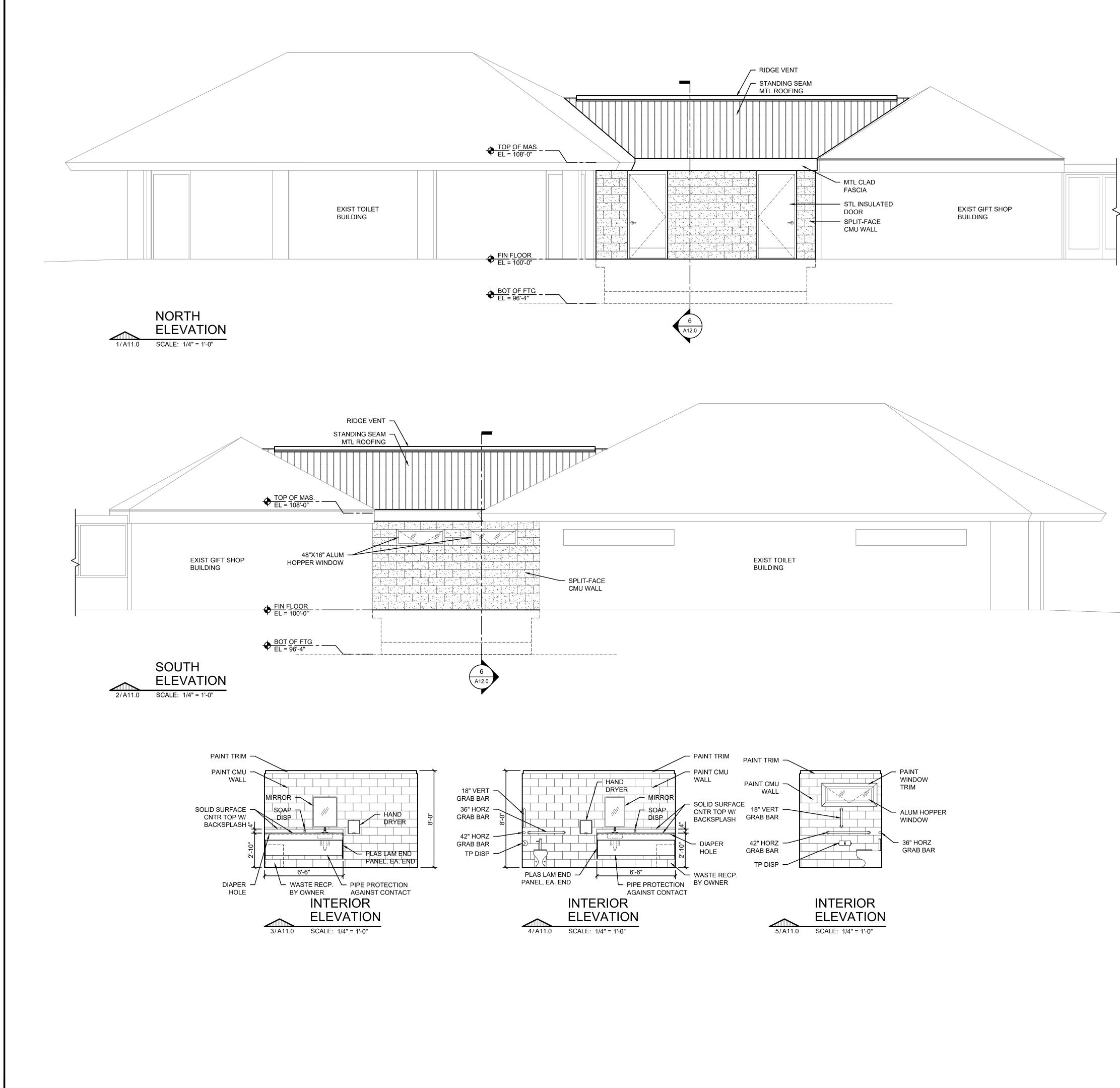
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101	WOMENS	CON	EPXY-1	-	CMU	EPXY-2	CMU/GYP	EPXY-2	
102	PLUMBING	CON	EPXY-1	-	CMU	EPXY-2	CMU/GYP	EPXY-2	
103	MENS	CON	EPXY-1	-	CMU	EPXY-2	CMU/GYP	EPXY-2	
104	FAMILY	CON	EPXY-1	-	GYP	PT-1	CMU/GYP	PT-1	
105	MECHANICAL ROOM	CON	EPXY-1	-	GYP	PT-1	CMU/GYP	PT-1	
106	STORAGE	CON	EPXY-1	-	GYP	PT-1	CMU/GYP	PT-1	
107	CONCESSIONS	CON	EPXY-1	-	CMU	EPXY-2	CMU/GYP	EPXY-2	





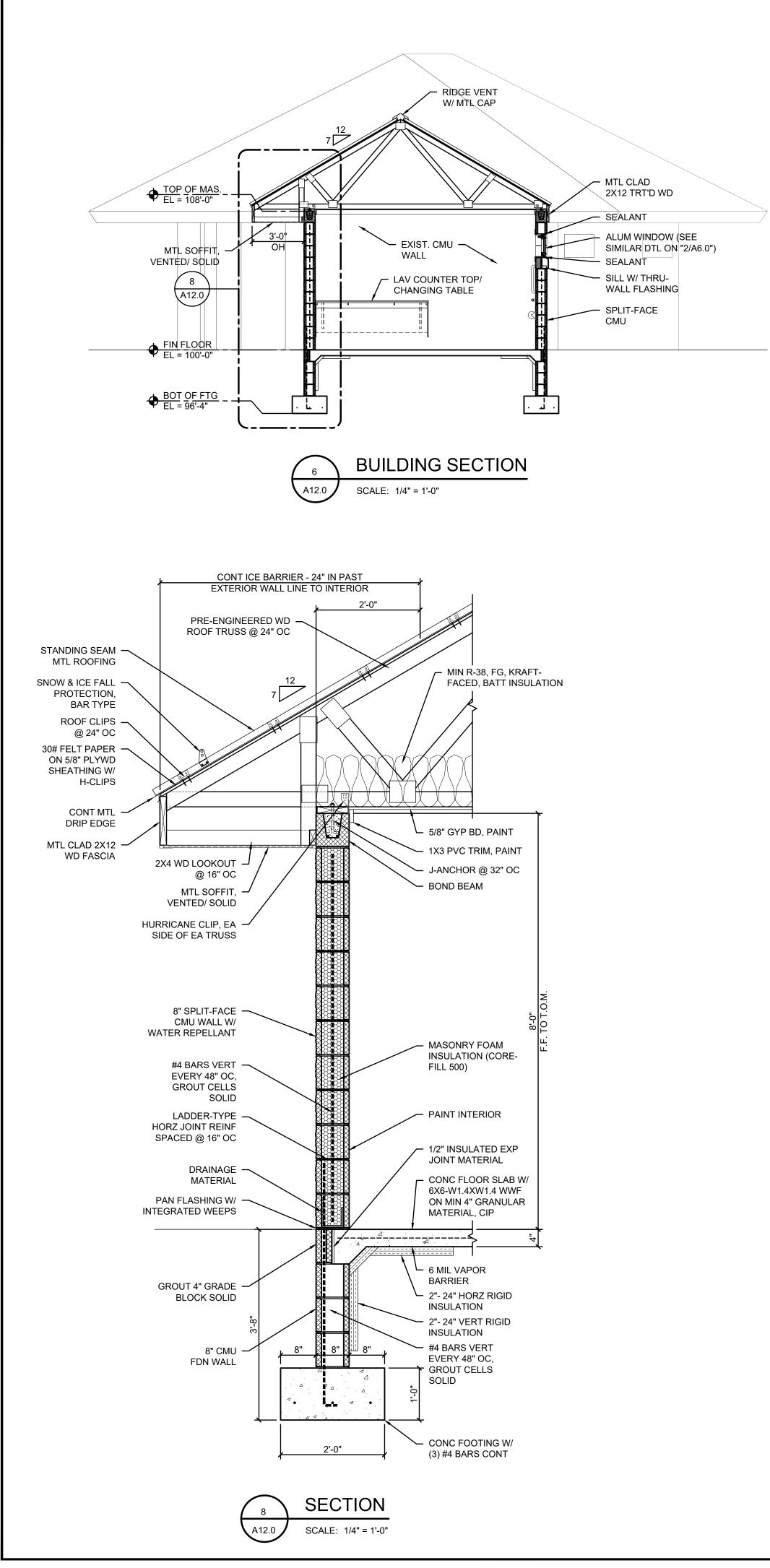
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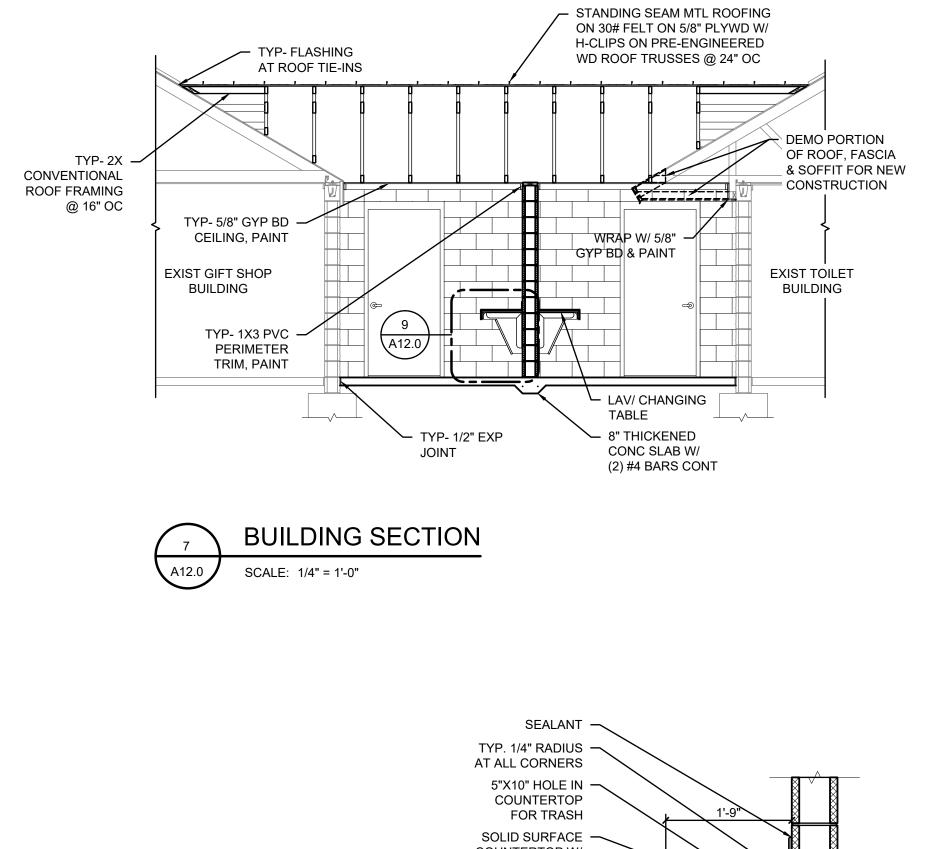
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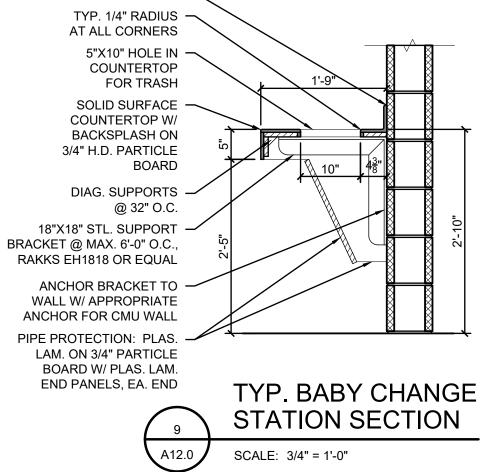


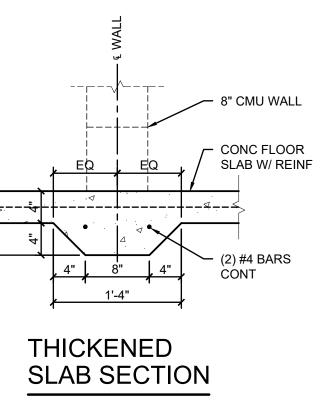
2022/131928SC3022 - Saginaw Children's ZoolDesign/CADARCHA10-A12_NORTH TOLLET RM ADTN.dwg - 1119/2022 11:14:39 AM - Marr, David W. 0.11TI N.G. S.C.A.L.E: A.C.A.D.

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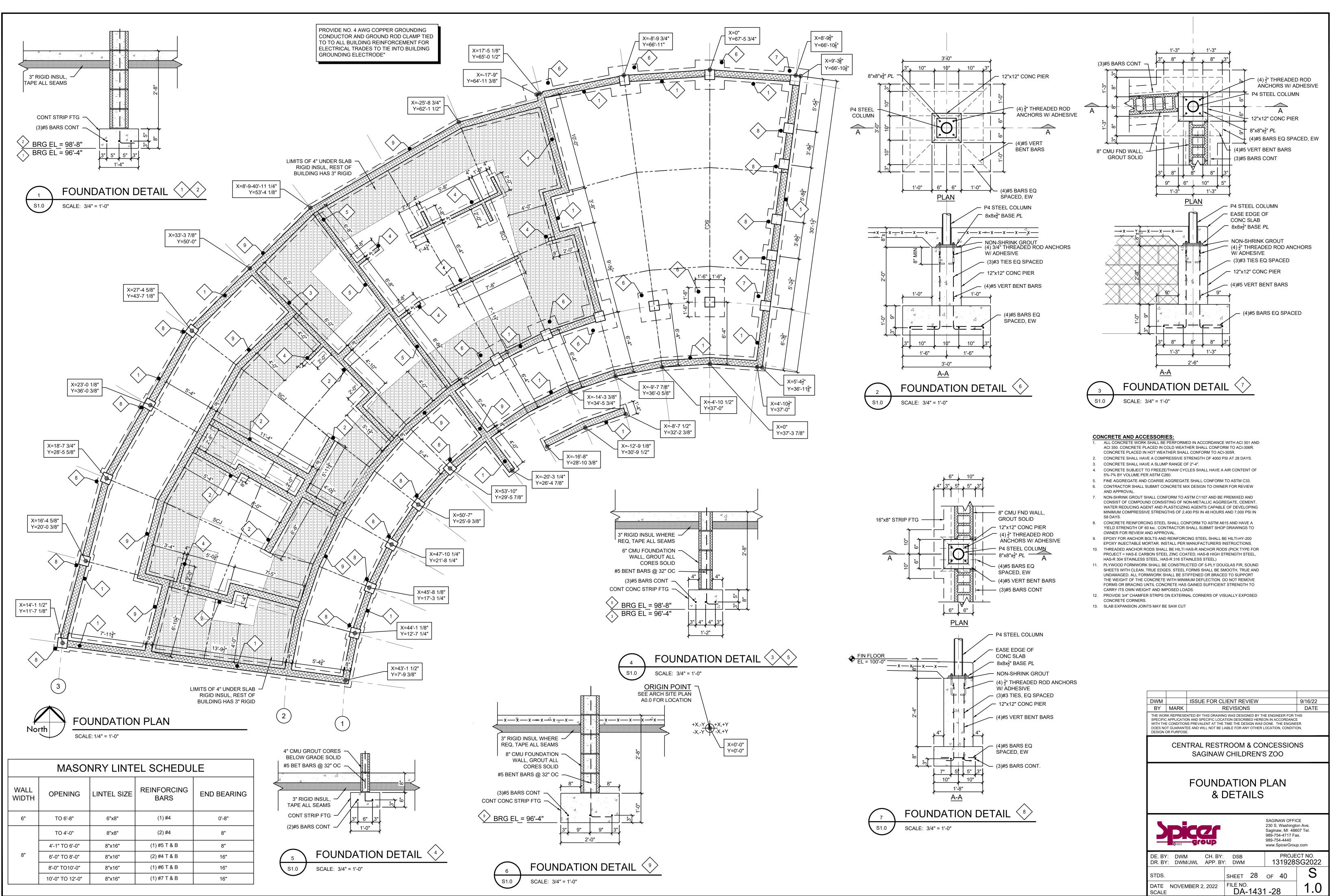




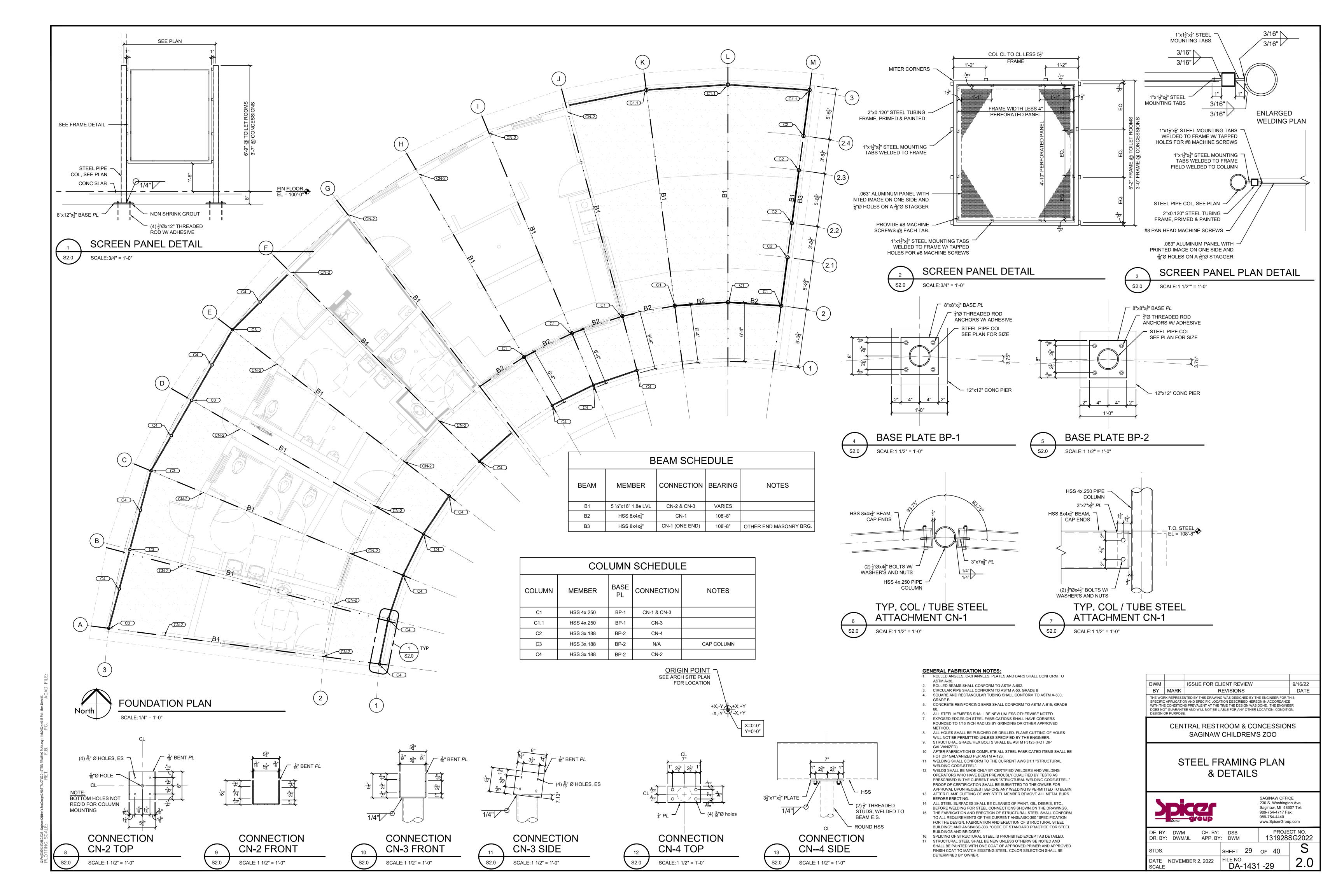


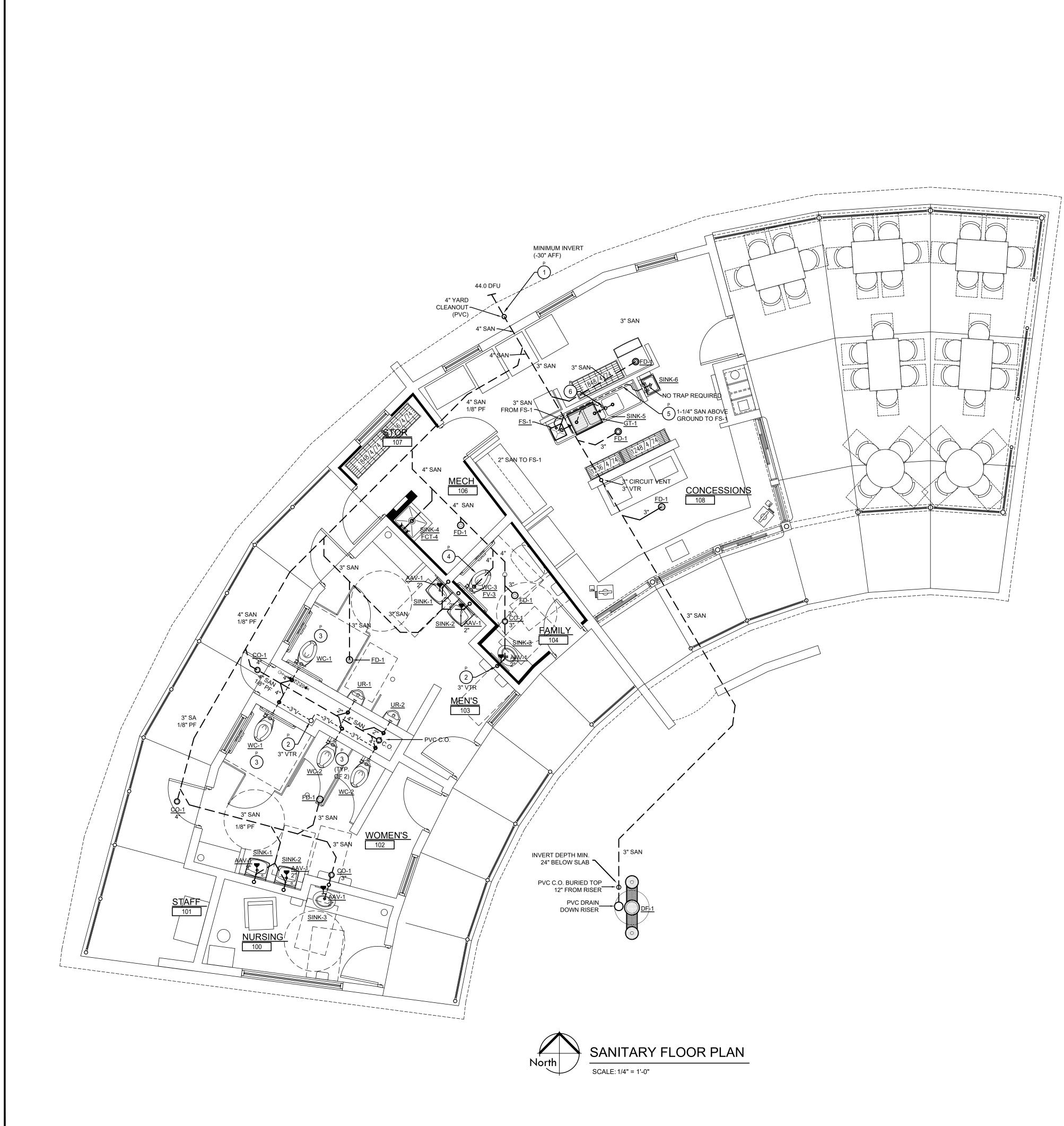
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2022/131928SG2022 - Saginaw Children's ZoolDesignCADISTRUCTS1.0 - FOUNDATION PLAN. Awg - 11/9/2022 10:59:37 AM - Marr, David W. DTTING SCALE: F.C. ACAI





PLUMBING & SANITARY NOTES:

<u>GENERAL:</u>

WATER CLOSETS WC-1 & WC-2 SHALL BE WALL-HUNG REAR OUTLET. WC-3 SHALL BE FLOOR MOUNT, BOTTOM-OUTLET.

KEYNOTES:

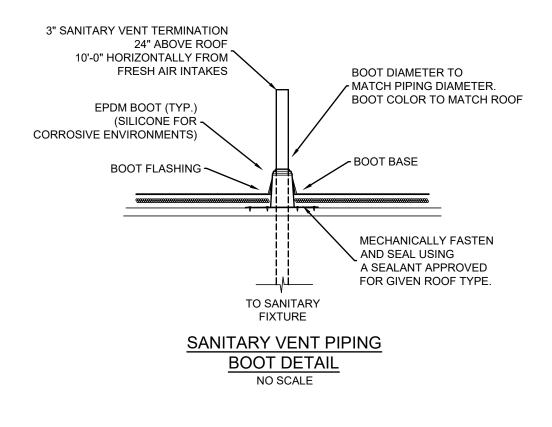
FIELD VERIFY INVERT ELEVATIONS WITH SITE PLAN. CONTRACTOR MAY DETERMINE FINAL DEPTH. TYPICAL UPSTREAM STARTING B.O. PIPE APPROX. 12" BELOW FINISHED FLOOR.

2 3" COMMON VENT WITH 3" VENT-THRU-ROOF (VTR).

(3) WALL HUNG WATER CLOSET WHERE MECHANICAL CHASE ALLOWS ACCESS.

(4) FLOOR MOUNTED WATER CLOSET IN LOCATION WITH NO MECHANICAL CHASE.

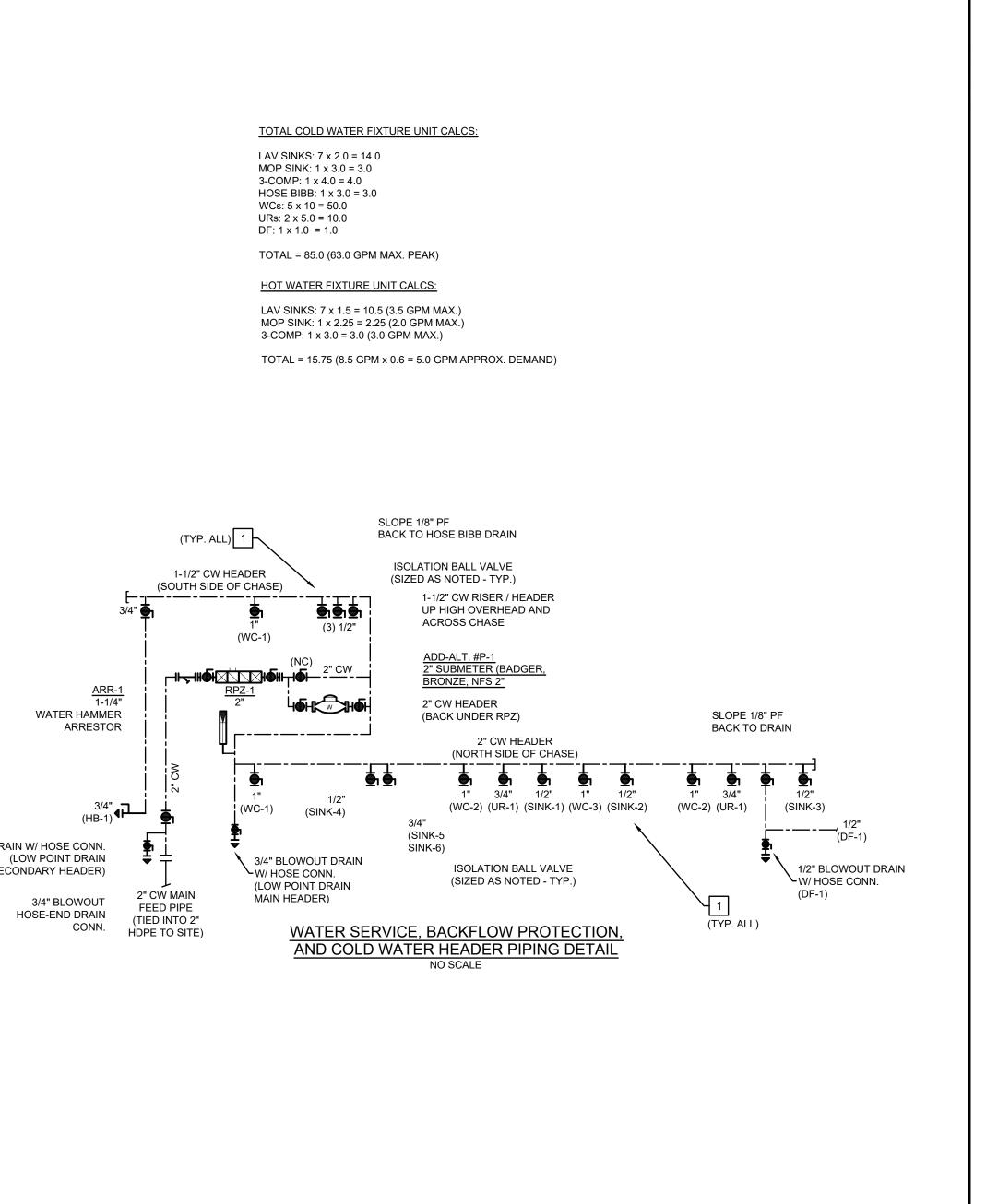
SINK-5 & GT SHALL DRAIN TO FLOOR SINK, FS-1. PIPE SINK-6 TO FLOOR SINK (UNTRAPPED) USING 1-1/4" PVC ABOVE FLOOR ON WALL TO FLOOR SINK.



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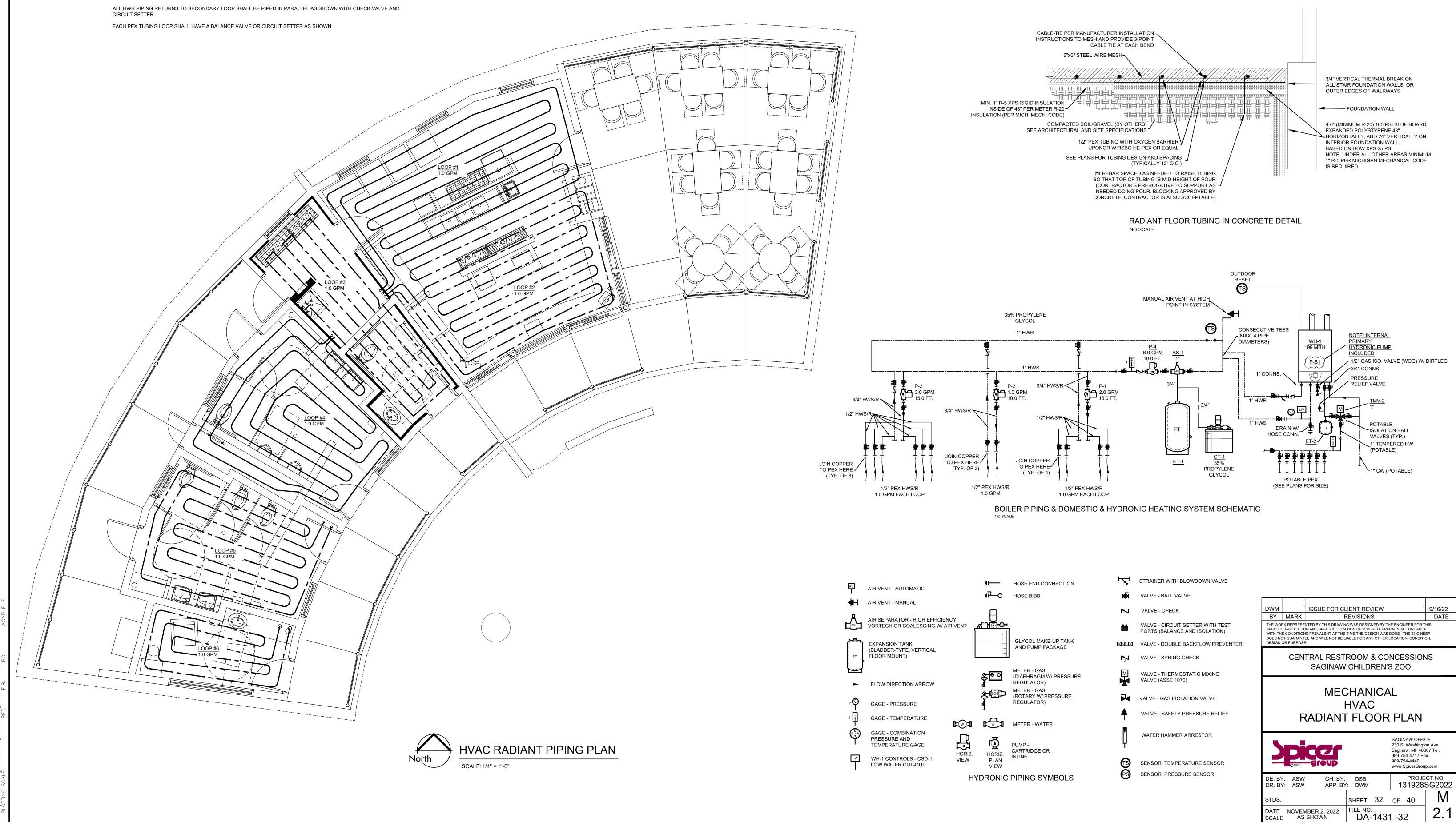
<u>GENERAL:</u>

ALL HEATING PEX TUBING SHALL BE UPONOR PEX-A WITH OXYGEN BARRIER.

THE FIRST 24" AROUND PERIMETER OF FOUNDATION WALL SHALL BE INSULATED WITH A MINIMUM R-10 BLUE-BOARD INSULATION. ALL OTHER TUBING AREAS SHALL BE INSULATED WITH A MINIMUM R-5 BLUE BOARD INSULATION. SUSPEND 6x6 STEEL MESH SO THAT TOP OF RADIANT TUBING IS MID-SLAB. FASTEN TUBING TO GRID USING HEAVY DUTY TWIST-TIES.

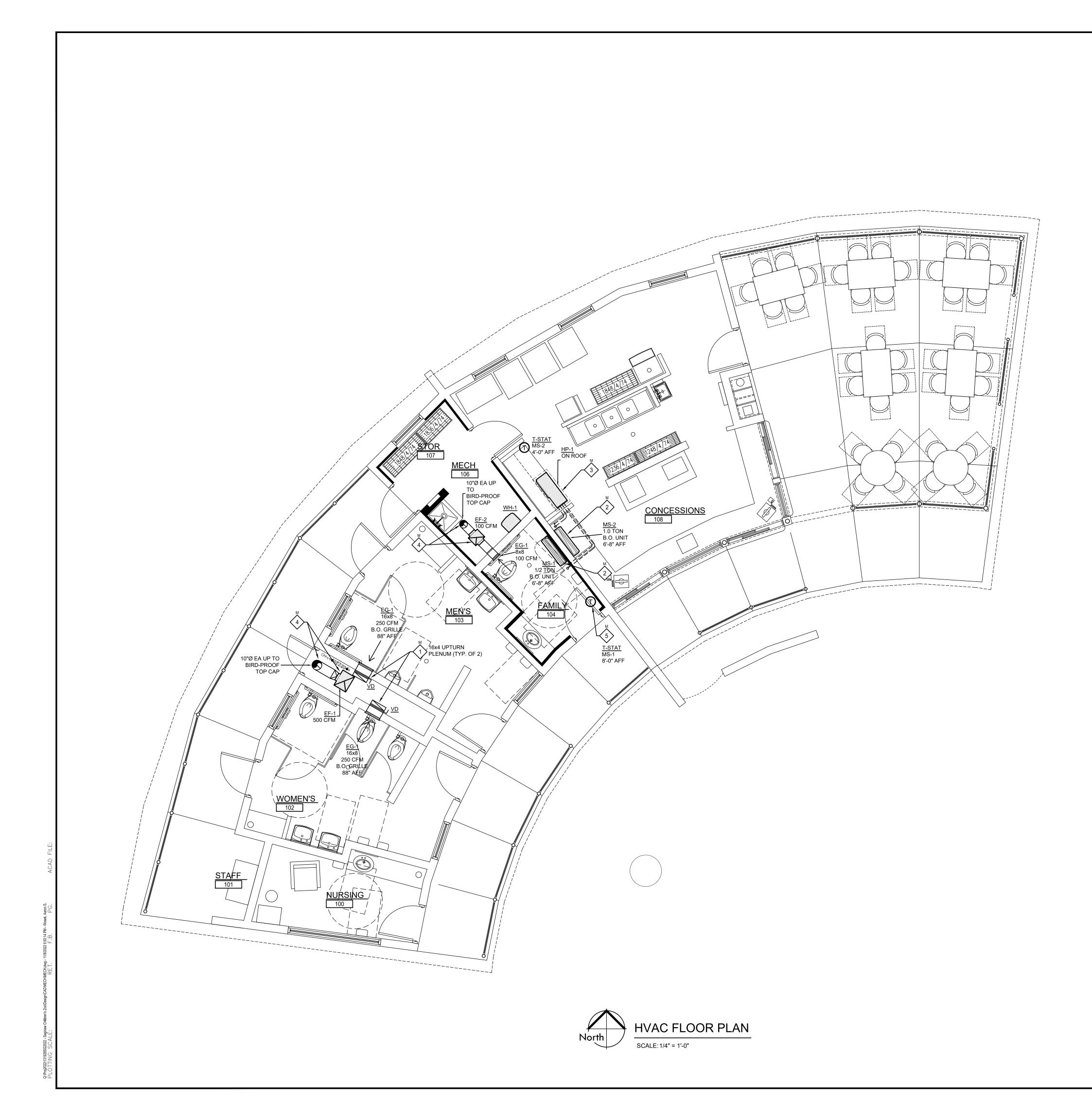
HYDRONIC SYSTEM SHALL BE FILLED WITH 35% PROPYLENE GLYCOL.

ALL HWS/R PIPING SHALL HAVE ISOLATION VALVES. SEE BOILER PIPING & DOMESTIC & HYDRONIC HEATING SYSTEM SCHEMATIC FOR MORE INFORMATION AND DETAILS.



RADIANT TUBING SYSTEM INSTALLATION NOTES:

- . INSTALL TUBING IN STRICT ACCORDANCE WITH UPONOR HE-PEX (OR EQUAL) INSTALLATION GUIDE. INSULATE USING R-20, 4", STANDARD 25 PSI EXPANDED POLYSTYRENE RIGID INSULATION UNDER THE FIRST 4'-0" OF SLAB HORIZONTALLY FROM FOUNDATION WALL AROUND EXTERIOR WALL OF TRUCK BAY AND OFFICE AREA. INSULATE THE INTERIOR FOUNDATION WALL AS REQUIRED BY ARCHITECTURAL PLANS. (SEE DETAIL NOTES BELOW FOR MORE INSULATION DATA).
- 3. CABLE TIE RADIANT FLOOR TUBING TO 6"x6" STEEL MESH. CABLE TIE EACH RADIUS AT TOP AND SIDES TO PREVENT SHIFTING.
- 4. SLEEVE TUBING AT CONCRETE FLOOR CONTROL JOINTS. 5. TYPICAL RADIANT FLOOR SHALL USE 1/2" TUBING UNLESS LONG-RUN APPLICATIONS ARE SHOWN, THEN 3/4" TUBING
- SHALL BE INSTALLED. 6. PRESSURIZE TUBING PER MICHIGAN MECHANICAL CODE. COMPLETE INSTALLATION OF TUBING AND MANIFOLD SHOULD BE COMPLETE. TUBING MUST BE INSPECTED BY AUTHORITY HAVING JURISDICTION PRIOR TO POURING CONCRETE.



MECHANICAL NOTES:

<u>GENERAL:</u> ALL DUCTWORK SHALL BE INSTALLED PER SMACNA REQUIREMENTS AND THE 2015 MICHIGAN MECHANICAL CODE. <u>KEYNOTES:</u>

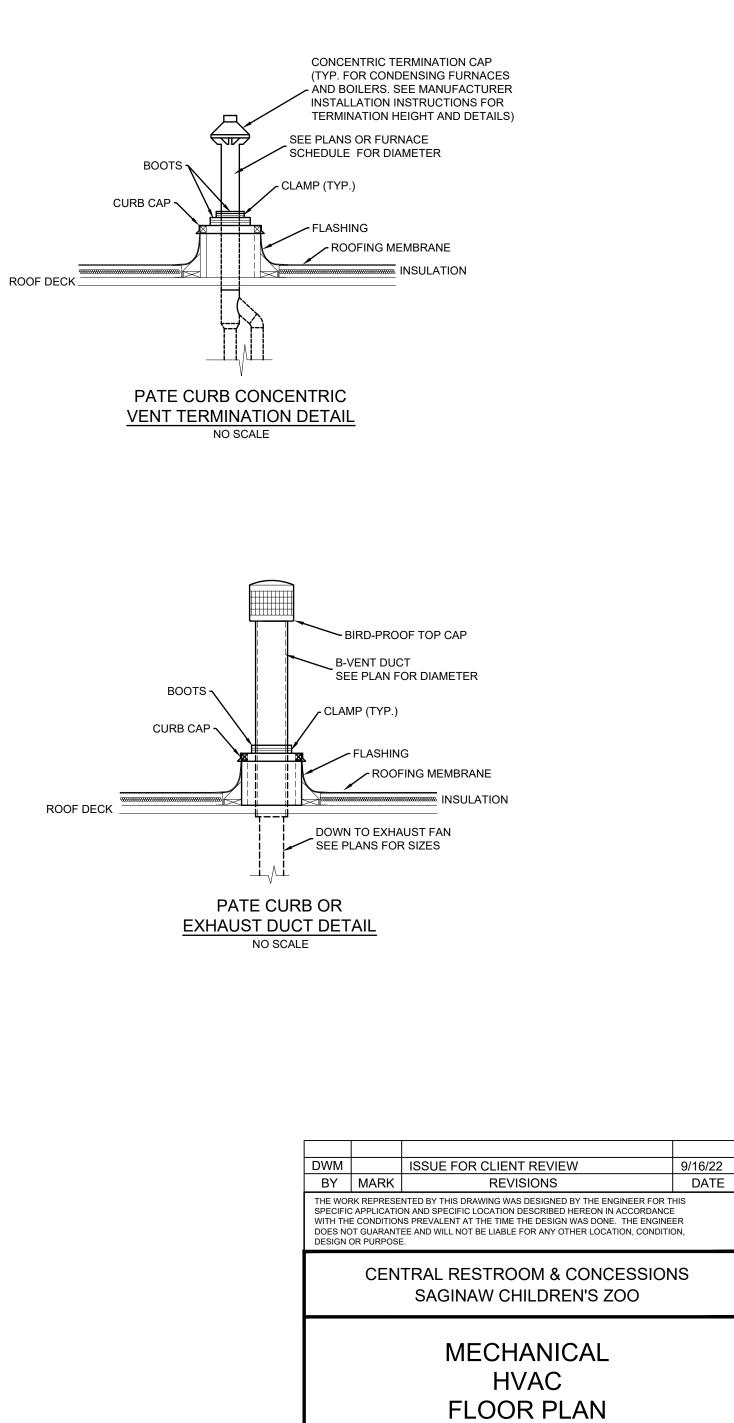
MOUNT BOTTOM OF EXHAUST GRILLES AT 88" AFF (MIN. 80" AFF). <u>INSTALL UPTURN PLENUM ON REAR SIDE OF GRILLES TO</u> ENSURE PRIVACY.

 \bigvee_{M}^{M} INSTALL (2) MINI-SPLITS UP HIGH ON WALL. PIPE LINESETS UP THRU ROOF THRU PATE CURB BOOTS. PIPE COMMON CONDENSATE AS SHOWN ON PLUMBING PLAN TO MECH. ROOM AND MOP SINK.

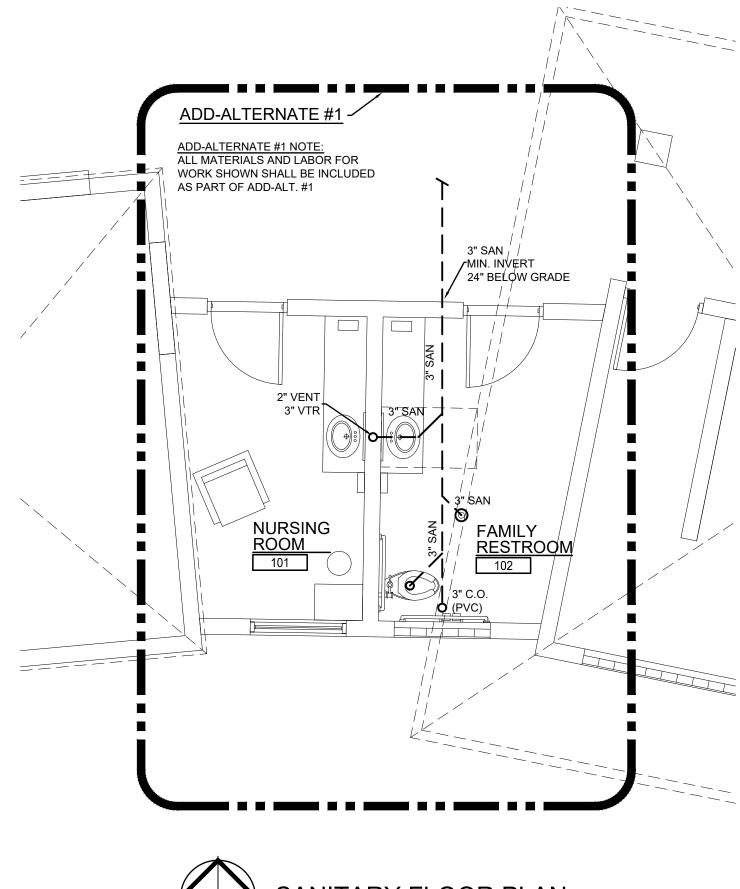
INSTALL MINI-SPLIT HEAT PUMP ON ROOF ON PITCHED ROOF ADJUSTABLE MOUNT LEGS (MIRO INDUSTRIES MODEL HD OR EQUAL). OPTIONAL MOUNT OPTION IS ON REAR EXTERIOR WALL (COORDINATE W/ GARY HOCTHANNER AND SPICER GROUP.)

MOUNT EXHAUST FANS EXPOSED IN MECH. ROOM OR CHASE AS SHOWN. PIPE EXHAUST UP THRU ROOF USING INSULATED DOUBLE-WALLED B-VENT THRU PITCHED 16x16 BY 18" TALL PATE CURB CUT DOWN FOR SLOPE, AND TERMINATE USING BIRD-PROOF TOP CAP.

IN FAMILY ROOM 104, INSTALL HARD-WIRED MINI-SPLIT T-STATS UNDER TAMPERPROOF CLEAR POLYCARBONATE COVERS AT 8'-0" AFF (NOT REACHABLE TO GENERAL PUBLIC).



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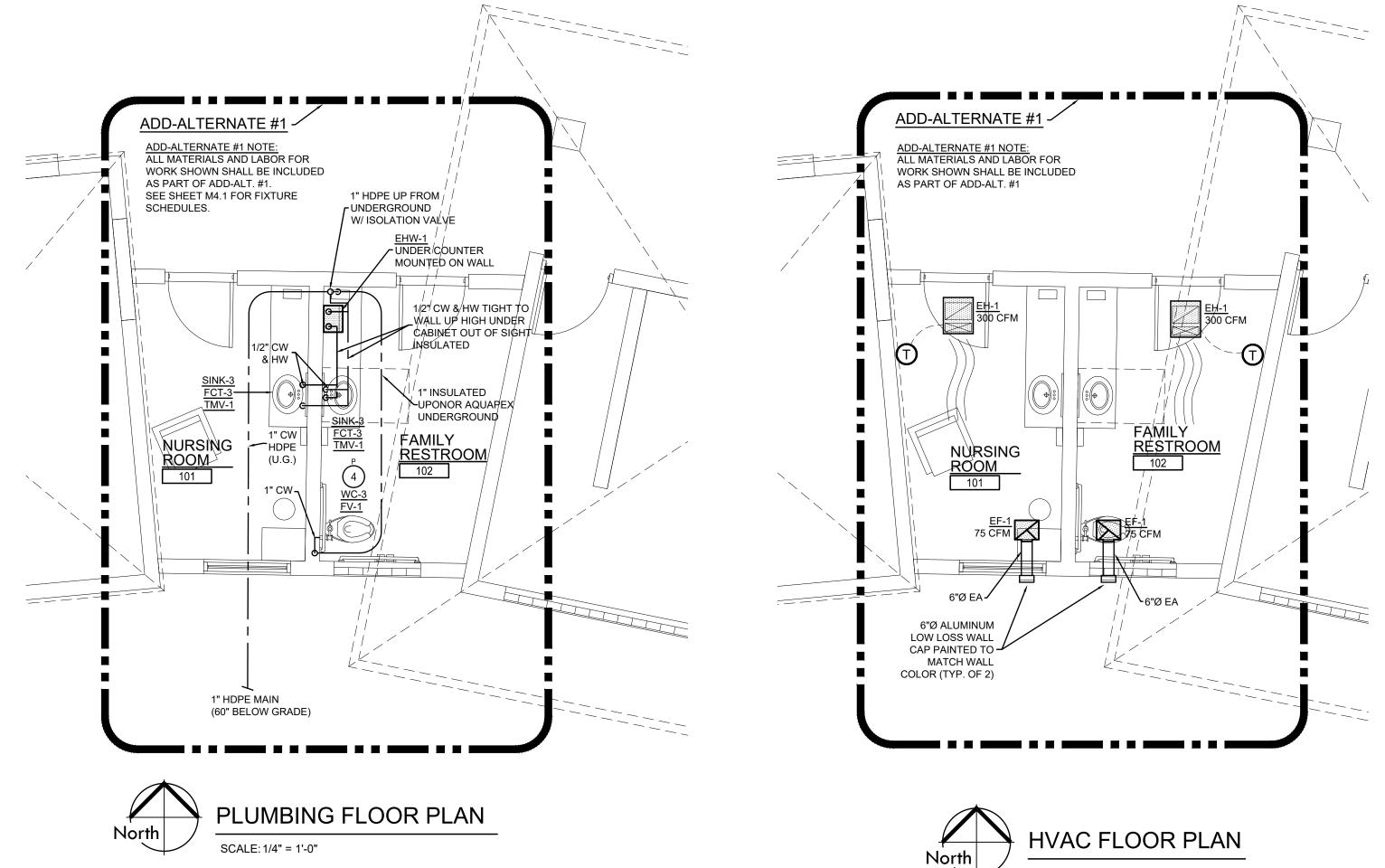




SANITARY FLOOR PLAN SCALE: 1/4" = 1'-0"

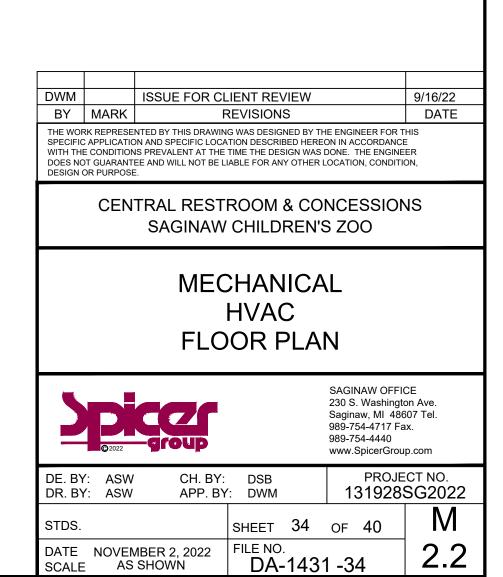
					ADD-AL	TER		#1	- FX	HALLS	ΤΕΔΝ		וווח	F							
										1			1								
TAG	LOCATI	ION	SERVES	DESCRIPTION	MANUFACTURER & MODEL #		AIRFLO			NOISE		WEIGHT			-					ACCESSO	ORIES & NOTES
						CFM	E.S.P FA	N HP	FAN RPM	SONES	dBA	LBS.	VOLT	AGE	F.L.A.	M.F.S.					
EF-3 (TOTAL OF 2)	NORTI BUILDIN		FAMILY BATHROOM	CENTRIFUGAL INLINE DIRECT DRIVE EXHAUST FAN	GREENHECK SP-A90	75	0.13" 1	I/A	900	0.8	N/A	VERIFY W/ SHOPS	120		0.34 (F.V.)	15			OM LIGHTING SCHEDULE	1. BACKDRAFT DAMPE	R
	Γ				ALTERNA		#1 - E	LEC	CTRI	C WAT	ER F	IEATEF	RSC	HE	DUL	E					
	Γ	TAG	DESC	RIPTION	MANUFACTURER & MODEL #	GAL.	GP	4	KW	EFFICIENCY	r D	IMENSIONS	CO	NNS.		ELECTR	ICAL DA	ТА	ACCES	SORIES & NOTES	
							@70°F	RISE	мвн	LISTED / TESTED	P HEIG	HT WIDTH	CW	HW	VO	LTAGE	F.L.A.	M.F.S.			
		EWH-1	_	IC WATER HEATER COUNTER MOUNT	LOCHIVAR MODEL JEC002BS	2.5	7.0		1.44	NAECA- ASHRAE	14.	5" 11.75	1/2"	1/2"	12	20V	12.0	20	-	/E COMPLETE FOR TION. MOUNT ON	

			ALIC								N 30		OLE			
TAG	DESCRIPTIO	N	MANUFACT & MODE		GAL.	GPH	KW	EFFICIENCY	DIM	ENSIONS	CO	NNS.	ELECT	RICAL DA	ΔTA	ACCESSORIES & NOTES
					@	70°F RISE	MBH	LISTED / TESTED	HEIGHT	WIDTH	CW	нw	VOLTAGE	F.L.A.	M.F.S.	
EWH-1	ELECTRIC WA		LOCHIVA MODEL JECC		2.5	7.0	1.44	NAECA- ASHRAE 90.1-2013	14.5"	11.75	5 1/2"	1/2"	120V	12.0	20	T&P VALVE PROVIDE COMPLETE FOF INSTALLATION. MOUNT O WALL UNDERCABINET
			AL	rern/	TE #	1 - El	EC	TRIC H	EATE	R SC	HED	DULE	Ξ			
TAG	LOCATION	MANUFAC	-	COLOR	HEAT	CAPAC			ISIONS	INCHES)	ELEC	TRICA	L DATA	۵C	CESS	SORIES & NOTES
	LOOATION	& MOD	EL#	COLOR	MBH	KV	v	WIDTH	LENGTH	HEIGHT	VOLTAG	E F.L	.A. M.F.S.			
EH-1	BATHROOM / STORAGE ROOM AREA	BERKO MOD COMMERCIAL I SURFACE CEILING H	DOWNFLOW MOUNT	WHITE	6.8	2.0 k (4/3		300 20.0"	16.5"	3.75"	240	8.3	20	Contrac Include Prograi	HANGER	



NOTE: FOR ADD-ALT. #1 SEE SHEET M4.1 FOR PLUMBING FIXTURE SCHEDULES

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



TAG DESCRIPTION MANUFACTURER & MODEL # MATERIAL ELONGATED, WALL MOUNTED WATER CLOSET, SIPHON JET, FLUELUNG DIM 700 LDE STATIO LOAD, WITH UPDOTECTIVE CLATING SLOAN	UMBING FIXTURE SCHEDULE	
ELONGATED, WALL MOUNTED WATER CLOSET, SIPHON JET,	FINISH CONNECTIONS (INCHES)	FLUSH VALVE PLUMBING FIXTURE SCHEDULE MANUFACTURER & MATERIAL FINISH CONNECTIONS (INCHES) ACCESSORIES & NOTES
	/ COLOR CW HW SANITARY ACCESSORIES & NOTES	IAG DESCRIPTION MODEL # MATERIAL / COLOR CW HW SANITARY WATERCLOSET FLUSHOMETER, 1-1/2" TOP SPUD, HANDS-FREE, SLOAN SLOAN 1. 16-1/2" TO FIT UNDER 36" ADA GRAB BAR.
FLUSHING RIM, 750 LBF STATIC LOAD, WITH PROTECTIVE GLAZING, TOP SPUD CONNECTION, 2-1/8" TRAP, ADA ASME A112.19 (MOUNT TOP OF SEAT AT AT 17" ADA HEIGHT) SLOAN 2049-STG (17" ADA) VITREOUS CHINA	GLOSS WHITE 1-1/2" — 4" WC-1 = 17" (ADA) WC-2 = 15" INCLUDE: BEMIS WHITE, OPEN FRONT, HEAVY DUTY ELONGATED SEAT WITH 300 S.S. POSTS AND PINTLES MODEL 1955SSCT; J.R. SMITH ADJUSTABLE HEAVY DUTY WALL	FV-1 DUAL-FLUSH 1.6/1.1 GPM MULTIPLE FOCUS SENSING FIELD 1" CONN, W/ MANUAL OVER-RIDE FLUSH, HARD-WIRED ECOS 111-1.6/1.1-HW DUAL FLUSH DUAL FLUSH HARD-WIRED BRASS & SEMI RED BRASS STEEL BRUSHED 1" 2. MUST INCLUDE MANUAL FLUSH BUTTON. 3. COORDINATE ELECTRICAL CONNECTION W/ E.C. 4. PROVIDE COMPLETE FOR INSTALLATION.
TOP SPOD CONNECTION, 2-1/8 TRAP, ADA ASME ATT2. 19 (MOONT	GLOSS WHITE 1-1/2" — 4" POSTS AND PINTLES MODEL 1955SSCT; J.R. SMITH ADJUSTABLE HEAVY DUTY WALL WALL CARRIER SYSTEM FOR SIPHON JET (SUPPLIER & CONTRACTOR TO PROVIDE FINAL WALL CARRIER PACKAGE FOR COMPLETE INSTALLATION FOR 8" CONCRETE BLOCK WALLS)	FV-2 URINAL FLUSHOMETER, TOP SPUD, HANDS-FREE, 0.125 GPF, 3/4" CONN, W/ MANUAL OVER-RIDE FLUSH, HARD-WIRED ADA, ASSE 1037 AND ASME 112.19 SLOAN BRASS & SEMI ECOS 186 HW-0.125-OR-HW BRASS & SEMI RED BRASS BRUSHED STAINLESS STEEL 3/4" 1. 16-1/2" 2 MUST INCLUDE MANUAL FLUSH BUTTON. 3/4" 3. COORDINATE ELECTRICAL CONN. W/ W.C.
ELONGATED, FLOOR MOUNTED WATER CLOSET, SIPHON JET, FLUSHING RIM, WITH PROTECTIVE GLAZING, TOP SPUD	INCLUDE: BEMIS WHITE, OPEN FRONT, HEAVY DUTY ELONGATED SEAT WITH 300 S.S. POSTS AND PINTLES MODEL 1955SSCT; COMPLETE INSTALLATION	ADA, ASSE 1037 AND ASME 112.19 W/ MANUAL OVER-RIDE 4. PROVIDE COMPLETE FOR INSTALLATION.
C-3 CONNECTION, 2-1/8" TRAP, ADA ASME A112.19 (MOUNT TOP OF SEAT 2026-STG VITREOUS CHINA AT AT 17" ADA HEIGHT)	GLOSS WHITE 1-1/2" 4" 4"	PLUMBING MIXING VALVE SCHEDULE
	FINISH CONNECTIONS (INCHES)	TAC DESCRIPTION MANUFACTURER & NATERIAL REF. FLOW DATA CONNS. TEMP.
TAG DESCRIPTION MANUFACTURER & MATERIAL	FINISH CONNECTIONS (INCHES) / COLOR cw Hw SANITARY ACCESSORIES & NOTES	POINT OF USE THERMOSTATIC LEAD-FREE BRASS LEAD-FREE BRASS LEAD-FREE BRASS LEAD-FREE BRASS
R-1 LOW CONSUMPTION URINAL, 1/8 GPF, WASH-OUT DESIGN, EXTENDED RIM, WALL-MOUNT, 3/4" TOP SPUD, 2" REAR DRAIN URINAL. AD ANSI A112.19.2 VITREOUS CHINA	GLOSS WHITE 3/4" — 2" 1. MOUNT AT ADA HEIGHT. 2. INCLUDE WALL HANGER COMPLETE FOR INSTALLATION.	TMV-1ABS, SYNTHETIC RUBBER MEMBRANE. ABS, SYNTHETIC RUBBER MEMBRANE. ANSI ASSE 1070.LEONARD ASSE 1070BODY S.S. SPRING BUNA-N RINGSASSE 10701.0 GPM (5.0 PSI)12.0 GPM (30.0 PSI)1/2"1/2"11/2"11/2"11/2"11/2"11/2"11/2"11/2"11/2"11/2"
SINK PLUMBIN	IG FIXTURE SCHEDULE	
AG DESCRIPTION MANUFACTURER & MATERIAL	FINISH CONNECTIONS (INCHES) / COLOR CW HW SANITARY ACCESSORIES & NOTES	TAG DESCRIPTION MANUFACTURER & MATERIAL FINISH CONNECTIONS (INCHES) ACCESSORIES & NOTES
WALL-HUNG LAVATORY, SEEMLESS SOLID SURFACE, BRADLEY NK-1 VANDAL RESISTANT, 4" CENTERSET (FIELD DRILL AS NEEDED) GLX-1	PROVIDE COLOR 1/2" 1/2" 2" 4" CENTERSET (FIELD DRILL OR REQUEST THRU SUPPLIER) 1/4 TURN CHROME-PLATED BRASS VALVES, INCLUDE INTEGRAL ADA TRAP GUARD,	ARCHITECTURAL LAVATORY SINK FAUCET
WITH ADA TRAP COVER, ANSI 117.1 NSF (34" AFF) COMPOSITE WALL-HUNG LAVATORY, SEEMLESS SOLID SURFACE, BRADLEY TERREON	SWATCH Image: SWATCH MOUNT TOP OF SINK AT 34" AFF PROVIDE COLOR 4/0" SAME AS SINK-1 BUT WITH TOP OF BOWL AT 30" AFF. (FOR KIDS)	FCT-1 ASINGLE CENTER HOLE, HANDS-FREE, WIRED AC POWER BRADLEY V/MATCHING SOAP DISPENSER VERGE-METRO BRASS BODY BRASS BODY 1/2"
NK-2 VANDAL RESISTANT, 4" CENTERSET (FIELD DRILL AS NEEDED) WITH ADA TRAP COVER, NON-ADA MOUNT HEIGHT = 30" GLX-1 (30" AFF - CHILD HEIGHT) COMPOSITE OVAL UNDERMOLINT LAVATORY SINK 4" CENTERSET KOHLER VITREOUS	PROVIDE COLOR SWATCH 1/2" 1/2" 2" 4" CENTERSET, INCLUDE INTEGRAL ADA TRAP GUARD,	ARCHITECTURAL LAVATORY SINK FAUCET SINGLE CENTER HOLE, HANDS-FREE, WIRED AC POWER BRADLEY BRAD
ADA, ASME A112.19.2 CAXTON OVAL K-2210 CAXTON OVAL K-2210	PROVIDE COLOR 1/2" 1/2" 2" MOUNT TOP PER ADA REQUIREMENTS	ASME A112.18.1, ANSI A117.1 ADA 3. 1/4 TURN CHROME-PLATED BRASS VALVES, S.S. FLEX. INLET HOSES, & GRID DRAIN ARCHITECTURAL LAVATORY SINK FAUCET INCLUDE:
NK-4 FLOOR-MOUNT MOP BASIN, 24"x24"x10" MOLDED DURASTONE REINFORCED FIBERGLASS MUSTEE REINFORCED INTEGRAL 3" PVC DRAIN W/ STRAINER 63M FIBERGLASS	WHITE 1/2" 1/2" 2" INCLUDE: 1. FCT-4, 63.600A SERVICE MOP FAUCET 2. 65.700 SERVICE HOSE AND HOLDER 3. 65.600 SERVICE MOP HANGER	FCT-3 SINGLE CENTER HOLE, HANDS-FREE, WIRED AC POWER W/ MATCHING SOAP DISPENSER ASME A112.18.1, ANSI A117.1 ADA BRADLEY VERGE-METRO BRASS BODY BRUSHED STAINLESS STEEL 1/2" 1/2" 1/2" 1. MATCHING VERGE SOAP DISPENSER. 3. 1/4 TURN CHROME-PLATED BRASS VALVES, S.S. FLEX. INLET HOSES, & GRID DRAIN
COMMERCIAL 3-COMPARTMENT SCULLERY SINK W/ DRAINBOARDS 94 0"x29 88" W/ (3) 14" DEEP SINKS 8" CENTERSET ELKAY DEPENDBUILT 16 GAGE, 304	4. 63.401 BUMPER GUARDS AND CORNER PLATES INCLUDE: REAR OVERFLOW DRAIN, REMOVABLE BASKET STRAINERS	FCT-4 SEE SINK-4 SCHEDULE. INCLUDED AS ACCESSORY TO SINK-4. MUSTEE (SEE SINK-4) BRASS BODY ROUGH CHROMED BRASS 1/2" 1/2"
NK-5 9" BACK SPLASH, DUAL L/R 18" DRAIN BOARDS, 16 GAGE 304 S.S. W/ (4) 1.63" O.D. LEGS, STEEL	HIGH POLISH SATIN S.S. 1/2" 1/2" 3"	FCT-5 COMMERCIAL SIDEWALL KITCHEN FAUCET, 12" SWING TUBULAR, WITH PRE-RINSE SPRAYER W/ FLEXIBLE STAINLESS STEEL HOSE, 8" CENTERSET, 4" WRIST BLADES, 2.0 GPM, T&S BRASS B-0133-ADF12-B BRASS BODY CHROME 1/2" 1/2" 1/2" 8" CENTERSET INCLUDE: COMPLETE FOR INSTALLATION
AK-6 COMMERCIAL KITCHEN HAND-WASHING SINK 18 GAGE 304 STAINLESS STEEL, WITH FAUCET 18"x14-1/2"x11", ASME A112.19.3, NSF-2, FAUCET NSF 372 LEAD FREE, NSF-61 18"x14-1/2"x11", ASME A112.19.3, NSF-2, FAUCET NSF 372 LEAD FREE, NSF-61	GLOSS WHITE 1/2" 1/2" 2" INCLUDE: 1. FCT-5: FAUCET, 6" GOOSENECK, W/ WRIST-BLADES, ADA, ANSI A117.1, NSF 2. GRID DRAIN 3. COMPLETE FOR INSTALLATION, MOUNT AT ADA HEIGHT.	FCT-6 SEE SINK-6 SCHEDULE. INCLUDED AS ACCESSORY TO SINK-6. ELKAY (SEE SINK-6) BRASS BODY CHROME 1/2" 1/2"
	3. COMPLETETOR INSTALLATION, MOUNT AT ADATILISTT.	
FLOOR DRAIN PLUM	BING FIXTURE SCHEDULE	
AG DESCRIPTION MANUFACTURER & MATERIAL	FINISH CONNECTIONS (INCHES) / COLOR CW HW SANITARY ACCESSORIES & NOTES	TAG LOCATION SERVES DESCRIPTION MANUFACTURER & MODEL # AIRFLOW DATA NOISE DATA WEIGHT ELECTRICAL DATA CONTROL SEQUENCE TAG LOCATION SERVES DESCRIPTION MANUFACTURER & MODEL # CFM E.S.P FAN HP FAN RPM SONES dBA LBS. VOLTAGE F.L.A. MF.S. CONTROL SEQUENCE
	STRAINER: CONTRACTOR TO VERIFY FLOOR DEPTH, AND REQUIRED BODY AND FLANGE. INCLUDE 3" NICKEL BRONZE 3"	EF-1 GANG BATHROOM SERVES BATHROOMS CENTRIFUGAL INLINE DIRECT DRIVE EXHAUST FAN 500 0.13" N/A 1070 4.5 N/A VERIFY W/SHOPS 120V 1.9 (INCLUDE RELAY).
FLOOR CLEAN-OUT, FLANGE INTEGRAL CLAMPING COLLAR, NO HUB, ROUND NICKEL-BRONZE TOP, 3" OR 4" AS SHOWN. JAY R. SMITH BODY: CAST IPON	OR STAINLESS COMPLETE FOR INSTALLATION. STRAINER: NICKEL BRONZE OR STAINLESS	SOUTH SERVES CENTRIFUGAL INLINE DIRECT DRIVE GREENHECK 100 0.401 N/A 200 0.401 N/A 200 0.62 VERIFY 200 0.62 ON WITH FAMILY BATHROOM 1. BACKDRAFT DAMPER
FLOOR SINK, ACID RESISTANT COATED, SANITARY RECEPTOR, -1 FLANGED, DEEP WELL12"x10" DEEP CAST IRON II -1 FLANGED, DEEP WELL12"x10" DEEP	OR STAINLESS Image: Constraint of the state of the st	BUILDING BATHROOMS EXHAUST FAN CSPA110 100 0.13" N/A 950 0.8 N/A W/ SHOPS 120V (F.V.) 15 OCCUPANCY SENSOR
AIR ADMITTANCE VALVE AIR ADMITTANCE VALVE AV-1 MINI-VENT, 1-1/2" AIR ADMITTANCE VALVE ARS	OR STAINLESS 3. NO TOP GRATE WHITE	GRILLE, REGISTER, AND DIFFUSER (GRD) SCHEDULE
ANSI/ASSE 1051 A&B, NSF 14		TAG DESCRIPTION DISCHARGE THROW / BLADES MANUFACTURER & MODEL # FRAME MATERIAL COLOR DIMENSIONS LENGTH (INCHES) NECK Ø" (INCHES) BALANCE DAMPER ACCESSORIES & NOTES
	NG FIXTURE SCHEDULE	EXHAUST AIR GRILLE TITUS SURFACE ALUMINUM WHITE SEE SEE EXTERNAL 1/2" BLADE SPACING, 35° FIXED SINGLE TITUS SURFACE ALUMINUM WHITE SEE SEE EXTERNAL
AG DESCRIPTION & MODEL # MATERIAL	/ COLOR CW HW SANITARY ACCESSORIES & NOTES	SURFACE MOUNT DEFLECTION, DEFLECTION 355FS MOUNT PAINT PLANS PLANS (SEE PLANS)
HOSE-BIBB FREEZELESS OUTDOOR, WALL-MOUNT, 3/4" HOSE-END W/ VACUUM BREAKER, ASSE 1019C, 125 PSIWOODFORD MODEL 65BRASS BODY S.S.SEAT EPDM PACKINGF	ROUGH CHROME 1/2" — — 3/4" HOSE CONN. INCLUDE TEE-KEY	MINI-SPLIT SCHEDULE - HEAT PUMP
	RRESTOR SCHEDULE	INDOOR UNIT
MANUFACTUR	RER & TOTAL DIMS (INCHES)	TAG MODEL # CONFIGURATION CFM End of the control of the c
TAG DESCRIPTION MODEL #	WFUS HEIGHT CONN.	MS-1 MS-2 & HP-1 FUJITSU ASU07RLF1 FUJITSU ASU12RLF1 W/ 2.0 TON OUTDOOR UNIT WALL-MOUNT 514 20" 66" 255 LBS. FUJITSU 24RLXFZ OUTDOOR UNIT 24.0 2.0 R-410A 1/4" 1/2" 145 LBS 208/60/1Ø 17.0 20 INCLUDE: 1. INCL
RR-1 WATER HAMMER ARRESTOR, COMMERCIAL, LEAD FREE, 80 PSI MAX. SYSTEM PRESSURE, 60 PSI PRE-CHARGED NITROGEN40°F - 212°F, PDI TESTED AND APPROVED PRE-CHARGED NITROGEN40°F - 212°F, PDI TESTED AND (PDI D)		
	V DEVICE SCHEDULE	HYDRONIC ACCESSORIES SCHEDULE ELECTRICAL DATA
MANUFACTURER	REF. FLOW DATA CONNS.	TAG DESCRIPTION MANUFACTURER & MODEL # DATA ELECTRICAL DATA voltage ACCESSORIES & NOTES
	(PSI) (PSI) INLET OUTLET	AS-1 HIGH EFFICIENCY AIR SEPARATOR BELL AND GOSSETT 1" NPT HEAD LOSS = 0.3 FT. 1" NPT HEAD LOSS = 0.3 FT.
RPZ-1 REDUCED PRESSURE WATTS STAINLESS A 20NE VALVE ASSEMBLY 994 LEAD FREE STEEL CS	AWWA 511-920.0 GPM (7.5 PSI)80.0 GPM (7.5 PSI)2"NOTE: RPZs MODELS MUST BE APPROVED BY THE CITY OF SAGINAW. INCLUDE STRAINER & ISOLATION BALL VALVES	EXPANSION TANK VERTICAL, PRE-CHARGED BUTYL RUBBER (NON-ASME)BELL AND GOSSETT HFT-30REQUIRED ACCEPTANCE = 2.5 GAL. TANK VOLUME = 4.4 GAL. HEIGHT = 14.0", DIA. =11.0"
DRINKING	FOUNTAIN SCHEDULE	ET-2 POTABLE EXPANSION TANK VERTICAL, PRE-CHARGED BUTYL RUBBER (NON-ASME) BELL AND GOSSETT PT-5 REQUIRED ACCEPTANCE = 0.9 GAL. TANK VOLUME = 3.0 GAL. HEIGHT = 8.0", DIA. =12.63"
MANUFACTURER MATERIAL FINISH	DIMENSIONAL DATA WEIGHT CONNS. (IN.) ELECTRICAL ACCESSORIES &	GT-1 GLYCOL MAKE-UP SYSTEM WESSELS 6.0 GALLON, 25 PSI 6.0 GALLON, 25 P
OUTDOOR EZH20 UPPER BOTTLE FILLING STATION FLKAY STAINLESS PROVIDE	WIDTH x 2 DEPTH MOONT HEIGHT (LBS.) CW SAN. 14" (1) OF (2) 1/2" 1. RIGHT-HAND ADA HIGH SIDE FOUNTAIN (COORDINATE WARCH)	PEX TUBING 1", 3/4" & 1/2" DEX.A POLYETHYLENE UPONOR 3/4" NOMINAL 3/4" NOMINAL 1/2" NOMINAL
DF-1 TRI-LEVEL PEDESTAL, DRINKING FOUNTAIN, NON-FILTERED, NON-REFRIGERATED, BARRIER-FREE ADA, NSF 42, ANSI 53, WITH DIRECT BURY ADAPTOR DF-1 ELKAY MODEL LK4430BF1U STEL BOWL COLOR SWAT	DAL NONE 48" DIA ADA - 27" 215 FEED 2" N/A (00010)	Index PEX-A, POLYEI HYLENE ASTM F876/877 & ASTM F876/877 200°F @ 100 PSI ASTM F876/877 Composition ASTM F876/877 Composition ASTM F876/877 Composition Composition <t< td=""></t<>
		BY MARK REVISIONS THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR
	ER HEATER - BOILER SCHEDULE AT EXCHANGER VENTING ELECTRICAL DATA	PUMP DATA ELECTRICAL DATA TAG DESCRIPTION MANUFACTURER LUEAD LUEAD LUEAD ACCESSORIES & NOTES
TAG DESCRIPTION MANUFACTURER & MODEL # INPUT (MBH) OUTPUT (MBH) TURN- DOWN AFUE MAT. T		& MODEL # GPM ITLAD IN.F.S.TIL IMIF. Ø HP RPM VOLTAGE F.L.A. M.F.S. INTERNAL REMARK SEE LOCHINVAR SEE LOCHINVAR INTERNAL RESTROOM & CONCESSI
WH-1HIGH EFFICIENCY, CONDENSING, COMBINATION DOMESTIC & HEATING WATER-TUBE BOILER,LOCHINVAR NOBLEN.G.199.0 MAX. 19.9 MIN.198.0 MAX. 18.9 MIN.10:195316 S.S.WA	ATER UBE 5.2 30.0 1.0 5.2 30.0 1.0 5.2 30.0 1.0 5.2 3"Ø 7.0 9VC 9VC 9VC 9VC 9VC 115 115 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	P-B1 NOBLE INSTALLATION NOBLE INSTALLATION SEE WH-1 POWER SAGINAW CHILDREN'S ZOO
W/ MODULATING BURNER NKC199N	DIGITAL CONTROLLER 3. SEE TMV-2 (REQUIRED SEPARATELY)	P-1 RADIANT LOOP #1 & #2 PUMP RED FOX 3-SPEED NFR-25 CAST IRON 2.0 15.0' N/A N/A N/A 3300 115 2.1 15 F.V. F.V. FLANGES CONTRACTOR TO SELECT COMPANION FLANGES
		P-2 RADIANT LOOP #3 PUMP B&G RED FOX 3-SPEED NFR-25 CAST IRON 1.0 10.0' N/A N/A N/A 3300 115 2.1 F.V. 5.V. CONTRACTOR TO SELECT COMPANION FLANGES
TAG DESCRIPTION	MANUFACTURER & MODEL # CAPACITY DIMENSIONS (INCHES) GPM LBS. LENGTH WIDTH (DEPTH) HEIGHT CONNS.	P-3 RADIANT LOOP #4, #5, #6 PUMP B&G RED FOX 3-SPEED 3.0 12.0' N/A N/A N/A 3300 115 2.3 EV 15 EV CONTRACTOR TO SELECT COMPANION
I I	NDER SCHIER GB1-CT 15 70 27" 23" 12" 2" NOT TO BE USED W/ FOOD GRINDER WITHOUT WASTE	NFR-25 CAST IRON Image: Construction of the second secon
GREASE TRAP ASSEMBLY HIGH DENSITY POLYETHYLENE LOW-PROFILE, UN SINK INSTALLATION	INTERCEPTOR UPSTREAM FROM DRAIN	P-4 SYSTEM PUMP NFR-45 (SPEED-2) 20.0 11.0' N/A N/A N/A 3300 115V 2.3 F.V. NOTE#1 NOTE#2: LOCHINVAR SUPPLIER TO SET UP Saginaw, MI DOMESTIC PRIORITY & BURNER RATE 989-754-471
HIGH DENSITY POLYETHYLENE LOW-PROFILE, UN		969-754-4410 989-754-4440
GT-1 HIGH DENSITY POLYETHYLENE LOW-PROFILE, UN SINK INSTALLATION		DE. BY: ASW CH. BY: DSB PRO
GT-1 HIGH DENSITY POLYETHYLENE LOW-PROFILE, UN SINK INSTALLATION		989-754-4717 989-754-4440 www.SpicerGr

														
	WAIEF		FINISH	FIXTURE SCHED					HUSH VALV			SCHEDULE CONNECTIONS (INCHES)		
DESCRIPTION ELONGATED, WALL MOUNTED WATER CLOSET, SIPHON JET,	MODEL #	MATERIAL	/ COLOR	CW HW SANITARY	ACCESSORIES & NOTES	TAG	DESCRIPTION WATERCLOSET FLUSHOMETER, 1-1/2" TO	DP SPUD, HANDS-FREE,	MODEL # SLOAN	MATERIAL	/ COLOR	CW HW SANITAR	Y ACCESSORIES &	NOTES
FLUSHING RIM, 750 LBF STATIC LOAD, WITH PROTECTIVE GLAZING, TOP SPUD CONNECTION, 2-1/8" TRAP, ADA ASME A112.19 (MOUNT TOP OF SEAT AT AT 17" ADA HEIGHT)	, SLOAN 2049-STG (17" ADA)	VITREOUS CHINA	GLOSS WHITE	1-1/2" — 4"	WC-1 = 17" (ADA) WC-2 = 15" INCLUDE: BEMIS WHITE, OPEN FRONT, HEAVY DUTY ELONGATED SEAT WITH 300 S.S.	FV-1	DUAL-FLUSH 1.6/1.1 GPM MULTIPLE FOCU 1" CONN, W/ MANUAL OVER-RIDE FLUSH, I ADA, ASSE 1037 AND ASME 112.19	JS SENSING FIELD HARD-WIRED	ECOS 111-1.6/1.1-HW DUAL FLUSH HARD-WIRED	BRASS & SEMI RED BRASS	BRUSHED STAINLESS STEEL	1" — —	 IOTIC TO THE ONDER SO ADA GIVED DAY. MUST INCLUDE MANUAL FLUSH BUTTON. COORDINATE ELECTRICAL CONNECTION W. PROVIDE COMPLETE FOR INSTALLATION. 	// E.C.
ELONGATED, WALL MOUNTED WATER CLOSET, SIPHON JET, LUSHING RIM, 750 LBF STATIC LOAD, WITH PROTECTIVE GLAZING OP SPUD CONNECTION, 2-1/8" TRAP, ADA ASME A112.19 (MOUNT	SLOAN 2049-STG	VITREOUS CHINA	GLOSS WHITE	1-1/2" — 4"	POSTS AND PINTLES MODEL 1955SSCT; J.R. SMITH ADJUSTABLE HEAVY DUTY WALL CARRIER SYSTEM FOR SIPHON JET (SUPPLIER & CONTRACTOR TO PROVIDE FINAL WALL CARRIER PACKAGE FOR COMPLETE INSTALLATION FOR 8" CONCRETE BLOCK	FV-2	URINAL FLUSHOMETER, TOP SPUD, HAND 0.125 GPF, 3/4" CONN, W/ MANUAL OVER-F HARD-WIRED		SLOAN ECOS 186 HW-0.125-OR-HW	BRASS & SEMI RED BRASS	BRUSHED STAINLESS	3/4" — —	 1. 16-1/2" 2. MUST INCLUDE MANUAL FLUSH BUTTON. 3. COORDINATE ELECTRICAL CONN. W/ W.C. 	
OP OF SEAT AT AT 15") ONGATED, FLOOR MOUNTED WATER CLOSET, SIPHON JET,	(15" AFF)				WALLS) INCLUDE: BEMIS WHITE, OPEN FRONT, HEAVY DUTY ELONGATED SEAT WITH 300 S.S. DOSTS AND DINTLES MODEL 40553357, COMPLETE INSTALLATION		ADA, ASSE 1037 AND ASME 112.19		W/ MANUAL OVER-RIDE		STEEL		4. PROVIDE COMPLETE FOR INSTALLATION.	
LUSHING RIM, WITH PROTECTIVE GLAZING, TOP SPUD CONNECTION, 2-1/8" TRAP, ADA ASME A112.19 (MOUNT TOP OF SEA T AT 17" ADA HEIGHT)	AT 2026-STG	VITREOUS CHINA	GLOSS WHITE	1-1/2" — 4"	POSTS AND PINTLES MODEL 1955SSCT; COMPLETE INSTALLATION				PLUMBING MI			F		
	MANUFACTURE		XTURE SCH	HEDULE		TAG	DESCRIPTION	MANUFACTURE MODEL #	i	REF.	FLOW DATA	CONNS. TEMP.	ACCESSORIES & NOTES	
	& MODEL #	MATERIAL	/ COLOR	CW HW SANITARY	ACCESSORIES & NOTES		POINT OF USE. THERMOSTATIC.		LEAD-FREE BRASS	(INLET OUTLET MAX.		
LOW CONSUMPTION URINAL, 1/8 GPF, WASH-OUT DESIGN, EXTENDED RIM, WALL-MOUNT, 3/4" TOP SPUD, 2" REAR DRAIN URINAL. AD ANSI A112.19.2	SLOAN SU-1009-STG	VITREOUS CHINA	GLOSS WHITE	3/4" — 2"	 MOUNT AT ADA HEIGHT. INCLUDE WALL HANGER COMPLETE FOR INSTALLATION. 	TMV-1	ABS, SYNTHETIC RUBBER MEMBRANE. ANSI ASSE 1070.	LEONARD ASSE 1070	BODY S.S. SPRING BUNA-N RINGS	ASSE 1070 1	.0 GPM 12.0 GPM 5.0 PSI) (30.0 PSI)	1/2" 1/2" 110°F		
	SI	INK PLUMB		RE SCHEDULE					SINK FAUCE					
DESCRIPTION	MANUFACTURER & MODEL #	MATERIAL	FINISH / COLOR	CONNECTIONS (INCHES)	ACCESSORIES & NOTES	TAG	DESCRIPTION		MANUFACTURER & MODEL #	MATERIAL		CONNECTIONS (INCHES)	ACCESSORIES	& NOTES
WALL-HUNG LAVATORY, SEEMLESS SOLID SURFACE, VANDAL RESISTANT, 4" CENTERSET (FIELD DRILL AS NEEDED)	BRADLEY GLX-1	TERREON COMPOSITE	PROVIDE COLOR SWATCH	1/2" 1/2" 2"	4" CENTERSET (FIELD DRILL OR REQUEST THRU SUPPLIER) 1/4 TURN CHROME-PLATED BRASS VALVES, INCLUDE INTEGRAL ADA TRAP GUARD, MOUNT TOP OF SINK AT 34" AFF		ARCHITECTURAL LAVATORY SINK FAUCET				BRUSHED	CW HW SANITARY	INCLUDE:	
WITH ADA TRAP COVER, ANSI 117.1 NSF WALL-HUNG LAVATORY, SEEMLESS SOLID SURFACE, VANDAL RESISTANT, 4" CENTERSET (FIELD DRILL AS NEEDED)	(34" AFF) BRADLEY GLX-1	TERREON	PROVIDE COLOR	1/2" 1/2" 2"	SAME AS SINK-1 BUT WITH TOP OF BOWL AT 30" AFF. (FOR KIDS)	FCT-1	SINGLE CENTER HOLE, HANDS-FREE, WIR W/ MATCHING SOAP DISPENSER ASME A112.18.1, ANSI A117.1 ADA	RED AC POWER	BRADLEY VERGE-METRO	BRASS BODY		1/2" 1/2" —	2. ASSE 1070 THERMOSTATIC MIXING VALVE (3. 1/4 TURN CHROME-PLATED BRASS VALVES,	
WITH ADA TRAP COVER, NON-ADA MOUNT HEIGHT = 30" OVAL UNDERMOUNT LAVATORY SINK, 4" CENTERSET ADA, ASME A112.19.2	(30" AFF - CHILD HEIGHT) KOHLER CAXTON OVAL	COMPOSITE VITREOUS CHINA	SWATCH PROVIDE COLOR	1/2" 1/2" 2"	4" CENTERSET, INCLUDE INTEGRAL ADA TRAP GUARD, MOUNT TOP PER ADA REQUIREMENTS	FCT-2	ARCHITECTURAL LAVATORY SINK FAUCET SINGLE CENTER HOLE, HANDS-FREE, WIR W/ MATCHING SOAP DISPENSER ASME A112.18.1. ANSI A117.1 ADA		BRADLEY VERGE-METRO	BRASS BODY	BRUSHED STAINLESS STEEL	1/2" 1/2"	INCLUDE: 1. MATCHING VERGE SOAP DISPENSER. 2. ASSE 1070 THERMOSTATIC MIXING VALVE (3. 1/4 TURN CHROME-PLATED BRASS VALVES,	
FLOOR-MOUNT MOP BASIN, 24"x24"x10" DURASTONE REINFORCED FIBERGLASS	K-2210	MOLDED	SWATCH		INCLUDE: 1. FCT-4, 63.600A SERVICE MOP FAUCET	FCT-3	ASME ATT2.18.1, ANSI ATT7.1 ADA ARCHITECTURAL LAVATORY SINK FAUCE1 SINGLE CENTER HOLE, HANDS-FREE, WIR W/ MATCHING SOAP DISPENSER		BRADLEY VERGE-METRO	BRASS BODY	BRUSHED STAINLESS STEEL	1/2" 1/2" —	INCLUDE: 1. MATCHING VERGE SOAP DISPENSER. 2. ASSE 1070 THERMOSTATIC MIXING VALVE (S	SET TO 110°F),
INTEGRAL 3" PVC DRAIN W/ STRAINER ANSI Z 124-2017	MUSTEE 63M	REINFORCED FIBERGLASS	WHITE	1/2" 1/2" 2"	 65.700 SERVICE HOSE AND HOLDER 65.600 SERVICE MOP HANGER 63.401 BUMPER GUARDS AND CORNER PLATES 		ASME A112.18.1, ANSI A117.1 ADA		MUSTEE	RDACE DODY	ROUGH		3. 1/4 TURN CHROME-PLATED BRASS VALVES,	
COMMERCIAL 3-COMPARTMENT SCULLERY SINK W/ DRAINBOARDS 94.0"x29.88" W/ (3) 14" DEEP SINKS, 8" CENTERSET 97 BACK SPLASH, DUAL L/R 18" DRAIN BOARDS, 18 CACE 204 S.S., DW/ (4) 1 62" O.D. LECS	ELKAY DEPENDBUILT 14-3C18x24-2-18X	16 GAGE, 304 STAINLESS STEEL	HIGH POLISH SATIN S.S.	1/2" 1/2" 3"	INCLUDE: REAR OVERFLOW DRAIN, REMOVABLE BASKET STRAINERS		SEE SINK-4 SCHEDULE. INCLUDED AS ACC	T, 12" SWING TUBULAR,	(SEE SINK-4)	BRASS BODY	CHROMED BRASS	1/2" 1/2"	8" CENTERSET	
6 GAGE 304 S.S. W/ (4) 1.63" O.D. LEGS, COMMERCIAL KITCHEN HAND-WASHING SINK 8 GAGE 304 STAINLESS STEEL, WITH FAUCET	ELKAY EHS-18X	18 GAGE, 304 STAINLESS	GLOSS WHITE	1/2" 1/2" 2"	INCLUDE: 1. FCT-5: FAUCET, 6" GOOSENECK, W/ WRIST-BLADES, ADA, ANSI A117.1, NSF	FCI-5	WITH PRE-RINSE SPRAYER W/ FLEXIBLE S 8" CENTERSET, 4" WRIST BLADES, 2.0 GPM ADA ANSI A117.1 & A112.18.1 LEAD FREE		B-0133-ADF12-B	BRASS BODY	CHROME 1	/2" 1/2"	INCLUDE: COMPLETE FOR INSTALLATION	
x14-1/2"x11", ASME A112.19.3, NSF-2, UCET NSF 372 LEAD FREE, NSF-61	спо-18Х	STEEL			 2. GRID DRAIN 3. COMPLETE FOR INSTALLATION, MOUNT AT ADA HEIGHT. 	FCT-6	SEE SINK-6 SCHEDULE. INCLUDED AS ACC	CESSORY TO SINK-6.	ELKAY (SEE SINK-6)	BRASS BODY	CHROME 1	/2" 1/2" —		
	FLOOR	DRAIN PLU		TURE SCHEDUL	Ξ					EXHAUS	T FAN SCHE	DULE		
DESCRIPTION	MANUFACTURER & MODEL #	MATERIAL	FINISH / COLOR	CONNECTIONS (INCHES)	ACCESSORIES & NOTES	TAG	LOCATION SERVES [DESCRIPTION	ANUFACTURER & MODEL # CFM	AIRFLOW DATA	NOISE DATA		ETRICAL DATA CONTROL SE F.L.A. M.F.S. SEQUENCE	ACCESSORIES & NOTES
MERGENCY FLOOR DRAIN, ADJUSTABLE, 6" CAST IRON BODY W/ LANGE INTEGRAL CLAMPING COLLAR, NO HUB, ROUND	JAY R. SMITH SERIES 2005Y-(075)	BODY: CAST IRON	STRAINER: NICKEL BRONZE	CW HW SANITARY	CONTRACTOR TO VERIFY FLOOR DEPTH, AND REQUIRED BODY AND FLANGE. INCLUDE 3" TRAP SEAL DEVICE FOR SCHEDULE 40 PVC OR CAST IRON NO HUB CONNECTION. PROVIDE	EF-1	BATHROOM BATHROOMS	ENTRIFUGAL INLINE DIRECT DRIVE	GREENHECK		070 4.5 N/A	VERIFY W/ SHOPS 120V	1.9 0N WITH MEN'S OR WOMEN'S OCCUPANCY SENSOR	1. BACKDRAFT DAMPER
IICKEL-BRONZE TOP, AND TRAP SEAL DEVICE LOOR CLEAN-OUT, FLANGE INTEGRAL CLAMPING COLLAR, IO HUB, ROUND NICKEL-BRONZE TOP, 3" OR 4" AS SHOWN.	HP NB 6"Ø TOP JAY R. SMITH 4020	BODY: CAST IRON	OR STAINLESS STRAINER: NICKEL BRONZE		COMPLETE FOR INSTALLATION. 1. GASKET SEAL	EF-2	SOUTH SERVES	EXHAUST FAN	GREENHECK 100	0.13" N/A g	50 00	VERIFY	0.62 ON WITH FAMILY BATHROOM	1. BACKDRAFT DAMPER
N/ SEAL ABS PLUG FLOOR SINK, ACID RESISTANT COATED, SANITARY RECEPTOR, FLANGED, DEEP WELL12"x12"x10" DEEP	4020 JAY R. SMITH 3440Y-(255)-10	BODY: CAST IRON	OR STAINLESS STRAINER: NICKEL BRONZE	(SEE PLANS	1. 10" DEEP 2. W/ DOME STRAINER	EF-2		EXHAUST FAN	CSPA110	9 0.13 N/A 9	50 0.8 N/A	W/ SHOPS 120V	(F.V.) ¹⁵ OCCUPANCY SENSOR	
NO HUB, WITH DOME STRAINER, NO TOP GRATE AIR ADMITTANCE VALVE MINI-VENT, 1-1/2"	STUDOR MINI-VENT	BODY: ABS	OR STAINLESS WHITE	2"	3. NO TOP GRATE			GRILLE	E, REGISTER, A		SER (GRD) S	SCHEDULE		
NSI/ASSE 1051 A&B, NSF 14						TAG	DESCRIPTION	DISCHARGE MA	NUFACTURER & FRAME	MATERIAL	COLOR DIMENSIC LENGTH W (INCHES) (INC		LANCE ACCESSORIES & NOTES	
DESCRIPTION	HOSE E MANUFACTURER & MODEL #		BING FIXTU FINISH / COLOR	IRE SCHEDULE CONNECTIONS (INCHES CW HW SANITARY	ACCESSORIES & NOTES	EG-1	EXHAUST AIR GRILLE 1/2" BLADE SPACING, 35° FIXED SINGLE DEFLECTION, SURFACE MOUNT	SINGLE DEFLECTION	TITUS SURFACI 355FS MOUNT		WHITE SEE PAINT PLANS	SEE EXT	ERNAL PLANS)	
HOSE-BIBB FREEZELESS OUTDOOR, WALL-MOUNT, 3/4" HOSE-END W/ VACUUM BREAKER, ASSE 1019C, 125 PSI	WOODFORD MODEL 65	BRASS BODY S.S.SEAT EPDM PACKING	ROUGH CHROME	1/2" — —	3/4" HOSE CONN. INCLUDE TEE-KEY				MIN	II-SPLIT SC	HEDULE - H	IEAT PUMP		
	WATEF	R HAMMER	ARRESTOR	RSCHEDULE		TAG	MANUFACTURER & CONF	INDOOR UNIT		WEIGHT	MANUFACTURER & MODEL #	HEAT COOLING		TRICAL DATA ACCESSORIE
DESCRIPTION		MANUFACT		MATERIAL TO	TAL DIMS (INCHES) FUS HEIGHT CONN. ACCESSORIES & NOTES	MS-1	FUJITSU ASU07RLF1		WIDTH DEPTH HEIG		FUJITSU 24RLXFZ	MBH TONS	GAS LIQ. LBS. VOLTAGE	E F.L.A. M.F.S.
WATER HAMMER ARRESTOR, COMMERCIAL, LEAD FREE, 80 PSI M PRESSURE, 60 PSI PRE-CHARGED NITROGEN40°F - 212°F, PDI TE		PRECISION PLUMBIN SC-1250D, 1-1/4"	G PRODUCTS	COPPER & BRASS	1" SUPPLIER TO VERIFY SELECTION FOR LISTED FIXTURE	MS-2 & HP-1	FUJITSU ASU12RLF1 WAL W/ 2.0 TON OUTDOOR UNIT	LL-MOUNT 514	20" 20" 66"	255 LBS.	OUTDOOR UNIT	24.0 2.0	R-410A 1/4" 1/2" 145 LBS 208/60/1Ø	17.0 20 1. HARDWIRED T-STAT 2. LINESET 3. CONDENSER MOUN
APPROVED		(PDI D)		W/ EPDM SEALS	8.5 9.5" NPT			ŀ	HYDRONIC ACC	CESSORIE	S SCHEDULE	E		
		BACKFLC		SCHEDULE	NNS.	TAC	G DESCRIPTION	MANUFACTUR & MODEL #		DATA		ELECTRICAL DA		3
DESCRIPTION MANUFAC		MATERIAL	STAND. MIN		ACCESSORIES & NOTES	AS-	HIGH EFFICIENCY AIR S-1 SEPARATOR	BELL AND GOSSE ESB-1-JR		г.				-
	NATTS :	STAINLESS STEEL	AWWA 0.0	OGPM 80.0 GPM 5 PSI) (7.5 PSI) 2"	2" <u>NOTE: RPZs MODELS MUST BE APPROVED BY THE CITY OF SAGINAW.</u> INCLUDE STRAINER & ISOLATION BALL VALVES	ET-	EXPANSION TANK	BELL AND GOSSE HFT-30	REQUIRED ACCEPT	ANCE = 2.5 GAL.			-	-
	I			IN SCHEDULE		ET-	POTABLE EXPANSION TANK	BELL AND GOSSE PT-5		ANCE = 0.9 GAL.) GAL.			-	
DESCRIPTION	MANUFACTURER & MODEL #		SH	DIMENSIONAL DATA	WEIGHT CONNS. (IN.) ELECTRICAL ACCESSORIES & NOTES	GT	T-1 GLYCOL MAKE-UP SYSTEM TANK, PUMP, & CONTROLS	WESSELS G-6	GLYCOL MAKE-UP P 6.0 GALLON, 25 PSI	PACKAGE	PRESSURE CONTROL,	115V F.V. 15	FILL SYSTEM WITH PRE-MIXED 35% PROPYLENE GLYCOL DOWFROST	
OUTDOOR EZH2O UPPER BOTTLE FILLING STATION	& MODEL #		LOR WI	IDTH x 2 DEPTH MOUNT HEIGHT 14" (1) OF (2)	(LBS.) CW SAN. 1/2" 1. RIGHT-HAND ADA HIGH SIDE FOUNTAIN (COORDINATE WARCH)	PEX TUBIN	X 1", 3/4" & 1/2"	UPONOR	TANK, GAGE, PREV, 3/4" NOMINAL	AND POLY TANK	2" NOMINAL			-
TRI-LEVEL PEDESTAL, DRINKING FOUNTAIN, NON-FILTERED, NON-REFRIGERATED, BARRIER-FREE ADA, NSF 42, ANSI 53, WITH DIRECT BURY ADAPTOR	MODEL S LK4430BF1U	STEEL BOWL COLOR S	R-COAT NONE SWATCH	48" DIA. ADA = 27" MAX. B.O. BOWL	215 FEED 2" N/A (COORDINATE WARCH.) W/ ADAPTOR 2. INCLUDE DIRECT BURY ADAPTOR 3. M.C. TO INCLUDE ALL NECESSARY FOR COMPLETE INSTALLATION	(NON POTAB	N- HOT CROSS-LINKED EXTRUDED	HEPEX PLUS PEX-A	ASTM F876/877 200°F @ 100 PSI		STM F876/877 0°F @ 100 PSI		-	DWM ISSU BY MARK
	COMBI	NATION WA	ATER HEAT	ER - BOILER SCI	HEDULE				PUMP SCHE	DULE	ELECTRICAL DATA			THE WORK REPRESENTED BY SPECIFIC APPLICATION AND S WITH THE CONDITIONS PREV/ DOES NOT GUARANTEE AND \
DESCRIPTION MANUFACTURER & MODEL # FUE	BURNER DATA		HEAT EXCHANGER	VENTING	CONTROLS ELECTRICAL DATA ACCESSORIES & NOTES	TAG	& N		HEAD N.P.S.H. IMP. Ø FT. H20) (FT. H20) (IN.)	HP RPM V	OLTAGE F.L.A. M.F	ACCESS	ORIES & NOTES	DESIGN OR PURPOSE.
HIGH EFFICIENCY, CONDENSING, COMBINATION DOMESTIC & HEATING	199.0 MAX. 198.0 MAX.	240	WATER	n 1.0 3"Ø 3"Ø	BUILT-IN SMART SYSTEM 115 1.5 15 2. CSD-1 LOW WATER CUT-OUT AND OTHER	P-B1		LOCHINVAR INSTALLATION			SEE WH-1 POWER	INCLUDED & POWER	RED WITH BOILER PACKAGE	CENTRA SA
WATER-TUBE BOILER, W/ MODULATING BURNER NKC199N	^{7.} 19.9 MIN. 18.9 MIN.				IGITAL CONTROLLER F.V. F.V. F.V. CONTROLS AS REQUIRED. 3. SEE TMV-2 (REQUIRED SEPARATELY)	P-1	RADIANT LOOP #1 & #2 PUMP RED F	B&G FOX 3-SPEED 2.0 25 CAST IRON	15.0' N/A N/A	N/A 3300	115 2.1 1 F.V. F.	5 CONTRACTOR TO S V. FLANGES	ELECT COMPANION	
			GF	REASE TRAP SCI		P-2	RADIANT LOOP #3 PUMP RED F	B&G FOX 3-SPEED 1.0	10.0' N/A N/A	N/A 3300	115 5	5 CONTRACTOR TO S V. FLANGES	ELECT COMPANION	
TAG	DES	SCRIPTION		ACTURER & CAPACITY IODEL # GPM LBS.	DIMENSIONS (INCHES) LENGTH WIDTH HEIGHT CONNS. ACCESSORIES & NOTES	P-3		B&G FOX 3-SPEED 3.0	12.0' N/A N/A		115 2.3 1	5 CONTRACTOR TO S	ELECT COMPANION	
GT-1	HIGH DENSITY POLYET SINK I	INSTALLATION	G	SCHIER	27" 23" 12" 2" UNDERSINK MOUNT ON FLOOR PROVIDE COMPLETE FOR INSTALLATION. NOT TO BE USED W/ FOOD GRINDER WITHOUT WASTE		NFR-25 B&G V	S CAST IRON			F.V. F.			
		ESS LID, PDI CERTIFIED			INTERCEPTOR UPSTREAM FROM DRAIN	P-4		NFR-45 20.0 SPEED-2) 20.0	11.0' N/A N/A	N/A 3300	115V 2.3 NOT F.V.	E#1 <u>NOTE#2:</u> LOCHINVAI DOMESTIC PRIORIT	R SUPPLIER TO SET UP Y & BURNER RATE	
														DE. BY: ASW
														DR. BY: ASW STDS.
														DATE NOVEMBER

	VVAIER	K CLOSET P	PLUMBING I		SCHED	ULE			FLUSH	VALVE PLUME	BING FIX	URE SCH	DULE			
DESCRIPTION	MANUFACTURER & MODEL #	MATERIAL	FINISH / COLOR		IONS (INCHES)	ACCESSORIES & NOTES	TAG	DESCRIPTION	MANUFACTUR MODEL #		FINISH / COLOF		TIONS (INCHES)	ACCESSORIES & NO	DTES	
ELONGATED, WALL MOUNTED WATER CLOSET, SIPHON JET, FLUSHING RIM, 750 LBF STATIC LOAD, WITH PROTECTIVE GLAZIN	G, SLOAN		GLOSS WHITE	CW HW		WC-1 = 17" (ADA)		WATERCLOSET FLUSHOMETER, 1-1/2" TOP SPUD, HANDS-FREE, DUAL-FLUSH 1.6/1.1 GPM MULTIPLE FOCUS SENSING FIELD	SLOAN ECOS 111-1.6/1.	1-HW BRASS & SEMI	BRUSHEI		1. 2.	16-1/2" TO FIT UNDER 36" ADA GRAB BAR. MUST INCLUDE MANUAL FLUSH BUTTON.		
TOP SPUD CONNECTION, 2-1/8" TRAP, ADA ASME A112.19 (MOUNT TOP OF SEAT AT AT 17" ADA HEIGHT) ELONGATED, WALL MOUNTED WATER CLOSET, SIPHON JET,	2049-STG (17" ADA)	VITREOUS CHINA			4"	WC-2 = 15" INCLUDE: BEMIS WHITE, OPEN FRONT, HEAVY DUTY ELONGATED SEAT WITH 300 S.S. POSTS AND PINTLES MODEL 1955SSCT; J.R. SMITH ADJUSTABLE HEAVY DUTY WALL CARRIER SYSTEM FOR SIPHON JET (SUPPLIER & CONTRACTOR TO PROVIDE FINAL		I" CONN, W/ MANUAL OVER-RIDE FLUSH, HARD-WIRED ADA, ASSE 1037 AND ASME 112.19 JRINAL FLUSHOMETER, TOP SPUD, HANDS-FREE,	DUAL FLUSI HARD-WIRE SLOAN	D	STAINLES STEEL BRUSHE	S	3.	COORDINATE ELECTRICAL CONNECTION W/ E. PROVIDE COMPLETE FOR INSTALLATION. 16-1/2"	C.	
FLUSHING RIM, 750 LBF STATIC LOAD, WITH PROTECTIVE GLAZIN TOP SPUD CONNECTION, 2-1/8" TRAP, ADA ASME A112.19 (MOUN TOP OF SEAT AT AT 15")		VITREOUS CHINA	GLOSS WHITE	1-1/2" —	- 4"	WALL CARRIER PACKAGE FOR COMPLETE INSTALLATION FOR 8" CONCRETE BLOCK WALLS)	FV-2	0.125 GPF, 3/4" CONN, W/ MANUAL OVER-RIDE FLUSH, HARD-WIRED ADA, ASSE 1037 AND ASME 112.19	ECOS 186 HW-0.125-OR- W/ MANUAL OVEI	HW RED BRASS	STAINLES		- <u> </u>	MUST INCLUDE MANUAL FLUSH BUTTON. COORDINATE ELECTRICAL CONN. W/ W.C. PROVIDE COMPLETE FOR INSTALLATION.		
ELONGATED, FLOOR MOUNTED WATER CLOSET, SIPHON JET, FLUSHING RIM, WITH PROTECTIVE GLAZING, TOP SPUD CONNECTION, 2-1/8" TRAP, ADA ASME A112.19 (MOUNT TOP OF S	SLOAN EAT 2026-STG	VITREOUS CHINA	GLOSS WHITE	1-1/2"	- 4"	INCLUDE: BEMIS WHITE, OPEN FRONT, HEAVY DUTY ELONGATED SEAT WITH 300 S.S. POSTS AND PINTLES MODEL 1955SSCT; COMPLETE INSTALLATION										
AT AT 17" ADA HEIGHT)		URINAL FIX						F		G MIXING VAL	VE SCHE					
DESCRIPTION	MANUFACTUREF & MODEL #	MATERIAL	FINISH / COLOR	CONNECT	IONS (INCHES)	ACCESSORIES & NOTES	TAG	DESCRIPTION MANUFACTURER MODEL #	& MATERIAL	REF. STAND.	FLOW DATA MIN. GPM MA (PSI) MA	X. GPM (PSI) INLET OUT		ACCESSORIES & NOTES		
LOW CONSUMPTION URINAL, 1/8 GPF, WASH-OUT DESIGN, EXTENDED RIM, WALL-MOUNT, 3/4" TOP SPUD, 2" REAR DRAIN	SLOAN SU-1009-STG	VITREOUS CHINA	GLOSS WHITE		- 2"	MOUNT AT ADA HEIGHT. INCLUDE WALL HANGER COMPLETE FOR INSTALLATION.	TMV-1	POINT OF USE, THERMOSTATIC, ABS, SYNTHETIC RUBBER MEMBRANE. ANSI ASSE 1070 ASSE 1070	LEAD-FREE BODY S.S. SPI	r RING ASSE 1070	1.0 GPM 12 (5.0 PSI) (3	2.0 GPM 1/2" 1/2	." 110°F			
URINAL. AD ANSI A112.19.2								ANSI ASSE 1070. ASSE 1070	BUNA-N R	RINGS						
	MANUFACTURER &	NK PLUMBII		-	DULE				SINK FA	UCET PLUMB	ING FIXT					
DESCRIPTION WALL-HUNG LAVATORY, SEEMLESS SOLID SURFACE,	MODEL # BRADLEY	MATERIAL	/ COLOR	CW HW	SANITARY	ACCESSORIES & NOTES 4" CENTERSET (FIELD DRILL OR REQUEST THRU SUPPLIER)	TAG	DESCRIPTION	MANUFACTURE MODEL #	R & MATERIAL	FINISH / COLOR		IONS (INCHES)	ACCESSORIES & 1	NOTES	
VANDAL RESISTANT, 4" CENTERSET (FIELD DRILL AS NEEDED) WITH ADA TRAP COVER, ANSI 117.1 NSF	GLX-1 (34" AFF)	TERREON COMPOSITE	PROVIDE COLOR SWATCH	1/2" 1/2"	2"	1/4 TURN CHROME-PLATED BRASS VALVES, INCLUDE INTEGRAL ADA TRAP GUARD, MOUNT TOP OF SINK AT 34" AFF SAME AS SINK-1 BUT WITH TOP OF BOWL AT 30" AFF. (FOR KIDS)	FCT-1 S	ARCHITECTURAL LAVATORY SINK FAUCET SINGLE CENTER HOLE, HANDS-FREE, WIRED AC POWER V/ MATCHING SOAP DISPENSER	BRADLEY VERGE-METRO	D BRASS BODY	BRUSHED STAINLESS ST	EEL 1/2" 1/2	" 1. 2.	LUDE: MATCHING VERGE SOAP DISPENSER. ASSE 1070 THERMOSTATIC MIXING VALVE (SET		
WALL-HUNG LAVATORY, SEEMLESS SOLID SURFACE, VANDAL RESISTANT, 4" CENTERSET (FIELD DRILL AS NEEDED) WITH ADA TRAP COVER, NON-ADA MOUNT HEIGHT = 30"	BRADLEY GLX-1 (30" AFF - CHILD HEIGHT)	TERREON COMPOSITE	PROVIDE COLOR SWATCH	1/2" 1/2"	2"		A	SME A112.18.1, ANSI A117.1 ADA RCHITECTURAL LAVATORY SINK FAUCET SINGLE CENTER HOLE, HANDS-FREE, WIRED AC POWER	BRADLEY		BRUSHED		INC 1.	1/4 TURN CHROME-PLATED BRASS VALVES, S.S LUDE: MATCHING VERGE SOAP DISPENSER.		
OVAL UNDERMOUNT LAVATORY SINK, 4" CENTERSET ADA, ASME A112.19.2	KOHLER CAXTON OVAL K-2210	VITREOUS CHINA	PROVIDE COLOR SWATCH	1/2" 1/2"	2"	4" CENTERSET, INCLUDE INTEGRAL ADA TRAP GUARD, MOUNT TOP PER ADA REQUIREMENTS	A	V/ MATCHING SOAP DISPENSER ISME A112.18.1, ANSI A117.1 ADA	VERGE-METRO	D BRASS BODY	STAINLESS ST	EEL 1/2" 1/2	" <u> </u>	ASSE 1070 THERMOSTATIC MIXING VALVE (SET 1/4 TURN CHROME-PLATED BRASS VALVES, S.S LUDE:		
FLOOR-MOUNT MOP BASIN, 24"x24"x10" DURASTONE REINFORCED FIBERGLASS INTEGRAL 3" PVC DRAIN W/ STRAINER ANSI Z 124-2017	MUSTEE 63M	MOLDED REINFORCED FIBERGLASS	WHITE	1/2" 1/2"	2"	INCLUDE: 1. FCT-4, 63.600A SERVICE MOP FAUCET 2. 65.700 SERVICE HOSE AND HOLDER 3. 65.600 SERVICE MOP HANGER	FCT-3 S	INCHITECTURAL LAVATORY SINK FAUCET SINGLE CENTER HOLE, HANDS-FREE, WIRED AC POWER V/ MATCHING SOAP DISPENSER ISME A112.18.1, ANSI A117.1 ADA	BRADLEY VERGE-METRO	D BRASS BODY	BRUSHED STAINLESS ST		" 1. 2.	MATCHING VERGE SOAP DISPENSER. ASSE 1070 THERMOSTATIC MIXING VALVE (SET 1/4 TURN CHROME-PLATED BRASS VALVES, S.S.		
COMMERCIAL 3-COMPARTMENT SCULLERY SINK W/ DRAINBOARD 94.0"x29.88" W/ (3) 14" DEEP SINKS, 8" CENTERSET	ELKAY DEPENDBUILT	16 GAGE, 304	HIGH POLISH	1/0"	' O"	4. 63.401 BUMPER GUARDS AND CORNER PLATES INCLUDE: REAR OVERFLOW DRAIN, REMOVABLE BASKET STRAINERS		EE SINK-4 SCHEDULE. INCLUDED AS ACCESSORY TO SINK-4.	MUSTEE (SEE SINK-4)	BRASS BODY	ROUGH CHROMED BR/	ASS 1/2" 1/2	"			
9" BACK SPLASH, DUAL L/R 18" DRAIN BOARDS, 16 GAGE 304 S.S. W/ (4) 1.63" O.D. LEGS, COMMERCIAL KITCHEN HAND-WASHING SINK	14-3C18x24-2-18X	STAINLESS STEEL 18 GAGE, 304	SATIN S.S.	1/2" 1/2'	3"	INCLUDE:	FCT-5 W	OMMERCIAL SIDEWALL KITCHEN FAUCET, 12" SWING TUBULAR, /ITH PRE-RINSE SPRAYER W/ FLEXIBLE STAINLESS STEEL HOSE, ' CENTERSET, 4" WRIST BLADES, 2.0 GPM, DA ANSI A417,4 & A412,40,41 FAD ERFE	T&S BRASS B-0133-ADF12-	B BRASS BODY	CHROME	1/2" 1/2'		ENTERSET LUDE: COMPLETE FOR INSTALLATION		
18 GAGE 304 STAINLESS STEEL, WITH FAUCET 18"x14-1/2"x11", ASME A112.19.3, NSF-2, FAUCET NSF 372 LEAD FREE, NSF-61	ELKAY EHS-18X	STAINLESS STEEL	GLOSS WHITE	1/2" 1/2'	' 2"	 FCT-5: FAUCET, 6" GOOSENECK, W/ WRIST-BLADES, ADA, ANSI A117.1, NSF GRID DRAIN COMPLETE FOR INSTALLATION, MOUNT AT ADA HEIGHT. 		DA ANSI A117.1 & A112.18.1 LEAD FREE SEE SINK-6 SCHEDULE. INCLUDED AS ACCESSORY TO SINK-6.	ELKAY (SEE SINK-6)	BRASS BODY	CHROME	1/2" 1/2'	—			
										FXHALL	ST FAN S		· ·		ı	
	FLOOR MANUFACTURER &		FINISH		IONS (INCHES)		TAG		UFACTURER &	AIRFLOW DAT		SE DATA WEIGI	IT ELECTRICA	oonno-	ACCESSORIES & NOTES	
DESCRIPTION EMERGENCY FLOOR DRAIN, ADJUSTABLE, 6" CAST IRON BODY V	MODEL #	MATERIAL	/ COLOR		SANITARY	ACCESSORIES & NOTES			MODEL #	CFM E.S.P FAN HP F	AN RPM SONES				ACCESSORIES & NOTES	
FLANGE INTEGRAL CLAMPING COLLAR, NO HUB, ROUND NICKEL-BRONZE TOP, AND TRAP SEAL DEVICE FLOOR CLEAN-OUT. FLANGE INTEGRAL CLAMPING COLLAR.	SERIES 2005Y-(075) HP NB 6"Ø TOP	BODY: CAST IRON	STRAINER: NICKEL BRONZE OR STAINLESS STRAINER:			TRAP SEAL DEVICE FOR SCHEDULE 40 PVC OR CAST IRON NO HUB CONNECTION. PROVIDE COMPLETE FOR INSTALLATION.	EF-1	BATHROOM BATHROOMS DIRECT DRIVE EXHAUST FAN	REENHECK SPA510	500 0.13" N/A	1070 4.5	N/A VERIF W/ SHO		OCCUPANCY SENSOR		
FLOOR CLEAN-OUT, FLANGE INTEGRAL CLAMPING COLLAR, NO HUB, ROUND NICKEL-BRONZE TOP, 3" OR 4" AS SHOWN. W/ SEAL ABS PLUG FLOOR SINK, ACID RESISTANT COATED, SANITARY RECEPTOR,	JAY R. SMITH 4020	BODY: CAST IRON BODY:	NICKEL BRONZE OR STAINLESS STRAINER:		3" OR 4" (SEE PLANS)	1. GASKET SEAL 2. ABS PLUG 1. 10" DEEP	EF-2		REENHECK CSPA110	100 0.13" N/A	950 0.8	N/A VERIF	0.6 S 120V (F.	00 WITH FAMILY BATHROOM 15 00 WITH FAMILY BATHROOM 000000000000000000000000000000000000	1. BACKDRAFT DAMPER	
FLANGED, DEEP WELL12"x12"x10" DEEP NO HUB, WITH DOME STRAINER, NO TOP GRATE	JAY R. SMITH 3440Y-(255)-10	CAST IRON DUCO COATED	NICKEL BRONZE OR STAINLESS		- 4"	2. W/ DOME STRAINER 3. NO TOP GRATE			RECIOT	ER, AND DIFF				L		
MINI-VENT, 1-1/2" ANSI/ASSE 1051 A&B, NSF 14	STUDOR MINI-VENT	BODY: ABS	WHITE		2"		TAG	· · · · · · · · · · · · · · · · · · ·	IFACTURER &					ACCESSORIES & NOTES		
DESCRIPTION	HOSE E MANUFACTURER & MODEL #	IBB PLUMB			EDULE ONS (INCHES) SANITARY	ACCESSORIES & NOTES	EG-1	EXHAUST AIR GRILLE THROW / BLADES 1/2" BLADE SPACING, 35° FIXED SINGLE SINGLE DEFLECTION, DEFLECTION SURFACE MOUNT DEFLECTION	MODEL # TITUS 355FS	FRAME MATERIAL SURFACE ALUMINUM		HES) (INCHES)	HES) DAMPER EE EXTERNAL (SEE PLANS	NONE		
HOSE-BIBB FREEZELESS OUTDOOR, WALL-MOUNT, 3/4" HOSE-END W/ VACUUM BREAKER, ASSE 1019C, 125 PSI	WOODFORD MODEL 65	BRASS BODY S.S.SEAT EPDM PACKING	ROUGH CHROME	1/2"		3/4" HOSE CONN. INCLUDE TEE-KEY				MINI-SPLIT S	CHEDUL	E - HEAT F	PUMP			
	ָ \\\\\דַרַ				⊑			INDOOR UNIT		HES) WEIGHT	MANUFACT	JRER & HEAT	COOLING	OUTDOOR UNIT		
G DESCRIPTION		MANUFACTU	JRER &		тот		TAG	MODEL # CONFIGURATION CFM		HEIGHT LBS.	MODEL	. #МВН	TONS	F	F.L.A. M.F.S.	
DESCRIPTION	MAX SYSTEM	MODEL PRECISION PLUMBING	.#	MATERIAL	WF	AL US HEIGHT CONN. ACCESSORIES & NOTES SUPPLIER TO VERIFY SELECTION FOR LISTED FIXTURE	MS-1 MS-2 & HP-1	FUJITSU ASU07RLF1 FUJITSU ASU12RLF1 WALL-MOUNT 514 W/ 2.0 TON OUTDOOR UNIT	20" 20"	66" 255 LBS.	FUJITSU 24F OUTDOOR		2.0 R-41	0A 1/4" 1/2" 145 LBS 208/60/1Ø	17.0 20 INCLUDE: 1. HARDWIRED T-STAT (MOUNT AT 8'- 2. LINESET 3. CONDENSER MOUNT PAD)" AFF)
WATER HAMMER ARRESTOR, COMMERCIAL, LEAD FREE, 80 PSI PRESSURE, 60 PSI PRE-CHARGED NITROGEN40°F - 212°F, PDI APPROVED		PRECISION PLUMBING SC-1250D, 1-1/4" B, (PDI D)		COPPER & BR W/ EPDM SEA						ACCESSORIE			I			
		BACKFLO	W DEVICE	SCHEDL	JLE		TAG	MANUFACTUR		DATA						
	ACTURER DDEL #		REF. F STAND. MIN.	LOW DATA GPM MAX		ACCESSORIES & NOTES		HIGH EFFICIENCY AIR BELL AND GOSSETT	1" NPT				M.C.A. M.F.S.	ACCESSORIES & NOTES		
REDUCED PRESSURE		STAINLESS	(P AWWA 0.00	GPM 80.0 (GPM	OUTLET 2" NOTE: RPZs MODELS MUST BE APPROVED BY THE CITY OF SAGINAW. INCLUDE STRAINER & ISOLATION BALL VALVES	AS-1	ESB-1-JR EXPANSION TANK	HEAD LOS	ACCEPTANCE = 2.5 GAL.						
ZONE VALVE ASSEMBLY 994	LEAD FREE	STEEL	C511-92 (7.5	PSI) (7.5 I	-51) 2"	INCLUDE STRAINER & ISOLATION BALL VALVES	ET-1	BUTYL RUBBER (NON-ASME) HFT-30 POTABLE EXPANSION TANK DEULUUE DEGEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	HEIGHT = 1 REQUIRED	JME = 4.4 GAL. 14.0", DIA. =11.0" ACCEPTANCE = 0.9 GAL.						
			G FOUNTAI	N SCHE	L DATA	CONNS. (IN.) ELECTRICAL ACCESSORIES &	ET-2	BUTYL RUBBER (NON-ASME) PT-5	HEIGHT = 8 GLYCOL M	JME = 3.0 GAL. 3.0", DIA. =12.63" AKE-UP PACKAGE						
DESCRIPTION	MANUFACTURER & MODEL #	IATERIAL FINISH	H DR FILTER WIE	TH x 2 DEPTH		(LBS.) CW SAN.	GT-1			N, 25 PSI ZATION PUMP WITH INTEGRA E, PREV, AND POLY TANK	AL PRESSURE CON	ITROL, 115V	F.V. 15A	FILL SYSTEM WITH PRE-MIXED 35% PROPYLENE GLYCOL DOWFROST		
OUTDOOR EZH2O UPPER BOTTLE FILLING STATION TRI-LEVEL PEDESTAL, DRINKING FOUNTAIN, NON-FILTERED, NON-REFRIGERATED, BARRIER-FREE ADA, NSF 42, ANSI 53, WITH DIRECT BURY ADAPTOR	ELKAY S MODEL S LK4430BF1U	STAINLESS TEEL BOWL COLOR SW		48" 14" DIA. MAX.	(1) OF (2) ADA = 27" B.O. BOWL	2151/2" FEED W/ ADAPTOR2"N/A1.RIGHT-HAND ADA HIGH SIDE FOUNTAIN (COORDINATE W ARCH.) 2.215M/A1.RIGHT-HAND ADA HIGH SIDE FOUNTAIN (COORDINATE W ARCH.) 2.216W/ ADAPTOR1.RIGHT-HAND ADA HIGH SIDE FOUNTAIN (COORDINATE W ARCH.) 2.217M/A1.RIGHT-HAND ADA HIGH SIDE FOUNTAIN (COORDINATE W ARCH.) 2.218W/ ADAPTOR1.RIGHT-HAND ADA HIGH SIDE FOUNTAIN (COORDINATE W ARCH.) 2.219W/ ADAPTOR1.RIGHT-HAND ADA HIGH SIDE FOUNTAIN (COORDINATE W ARCH.) 2.210M/AM/A1.210M/A1.RIGHT-HAND ADA HIGH SIDE FOUNTAIN (COORDINATE W ARCH.) 2.211M/AM/A1.212M/AM/A1.213M/AM/A1.214M/AM/A1.215M/AM/A1.216M/AM/A1.217M/AM/A1.218M/AM/A1.219M/AM/A1.219M/AM/A1.219M/AM/A1.219M/AM/A1.219M/AM/A1.219M/AM/AM/A219M/AM/AM/A219M/AM/AM/A219M/AM/AM/A219M/AM/AM/A219M/AM/A219 </td <td>PEX TUBING (NON- POTABLE</td> <td>HOT CROSS-LINKED EXTRUDED HEPEX PLUS</td> <td>3/4" NOMI ASTM F87 200°F @ 1</td> <td>6/877 &</td> <td>1/2" NOMINAL ASTM F876/877 200°F @ 100 PSI</td> <td></td> <td></td> <td></td> <td>DWM ISSUE FOR CLIE</td> <td></td>	PEX TUBING (NON- POTABLE	HOT CROSS-LINKED EXTRUDED HEPEX PLUS	3/4" NOMI ASTM F87 200°F @ 1	6/877 &	1/2" NOMINAL ASTM F876/877 200°F @ 100 PSI				DWM ISSUE FOR CLIE	
	COMRI	NATION WA			FR SCH					CHEDULE					BY MARK REP THE WORK REPRESENTED BY THIS DRAWING W SPECIFIC APPLICATION AND SPECIFIC LOCATIO WITH THE CONDITIONS PREVALENT AT THE TIM	
G DESCRIPTION MANUFACTURER	BURNER DATA	Н	IEAT EXCHANGER	VE	ENTING	CONTROLS ELECTRICAL DATA ACCESSORIES & NOTES	TAG	DESCRIPTION MANUFACTURER & MODEL # GPM (FT	PUMP D EAD N.P.S.H. . H20) (FT. H20)	IMP.Ø	ELECTRIC VOLTAGE F.L.		ACCESSORIES	& NOTES	DOES NOT GUARANTEE AND WILL NOT BE LIABL	E FOR ANY OTHER LOCATION, C
HIGH EFFICIENCY, CONDENSING,	EL INPUT OUTPUT (MBH) (MBH)	316	WATER			VOLTAGE F.L.A. M.F.S. BUILT-IN 1. COMBI PRIMARY-SECONDARY KIT	P-B1	INTERNAL PRIMARY SEE LOCHINVAR SYSTEM DI IMP NOBLE INSTALLATION	(F1. H20)	(IN.)	SEE WH-1 F		JDED & POWERED WIT	H BOILER PACKAGE	CENTRAL RESTRO SAGINAW C	OOM & CONCES HILDREN'S ZOO
H-1 COMBINATION DOMESTIC & HEATING LOCHINVAR N. WATER-TUBE BOILER, W/ MODULATING BURNER NKC199N	G. 199.0 MAX. 198.0 MAX. 19.9 MIN. 18.9 MIN.	10:1 95 S.S.	TUBE 5.2 30.0	1.0 3"Ø FT. PVC	3"Ø PVC DI	SMART SYSTEM GITAL CONTROLLER1151.5152.CSD-1 LOW WATER CUT-OUT AND OTHER CONTROLS AS REQUIRED. 3.2.SITAL CONTROLLERF.V.F.V.SEE TMV-2 (REQUIRED SEPARATELY)	P-1 I	INSTRUCTIONS B&G RADIANT LOOP #1 & #2 PUMP RED FOX 3-SPEED 2 0	5.0' N/A	N/A N/A 3300	115 2.1		TRACTOR TO SELECT	COMPANION		
			CP		RAP SCH			NFR-25 CAST IRON B&G			F.V		IGES	COMPANION		IANICAL EDULES
TAG	DES	CRIPTION	MANUF	CTURER &	CAPACITY		P-2	RADIANT LOOP #3 PUMP RED FOX 3-SPEED 1.0 10 NFR-25 CAST IRON B&G	D.0' N/A	N/A N/A 3300	115 F.V	. F.V. FLAI	IGES			
	GREASE	TRAP ASSEMBLY HYLENE LOW-PROFILE, I	UNDER SC	HIER		ENGTH WIDTT (DEPTH) HEIGHT CONNS. UNDERSINK MOUNT ON FLOOR PROVIDE COMPLETE FOR INSTALLATION. UNDERSINK MOUNT ON FLOOR	P-3 R	ADIANT LOOP #4, #5, #6 PUMP RED FOX 3-SPEED 3.0 1: NFR-25 CAST IRON 3.0 1:	2.0' N/A	N/A N/A 3300	115 2.3 F.V	. F.V. FLAI	-			SAGINAW
GT-	SINKI	NSTALLATION SS LID, PDI CERTIFIED		11-CT	15 70	27" 23" 12" 2" NOT TO BE USED W/ FOOD GRINDER WITHOUT WASTE INTERCEPTOR UPSTREAM FROM DRAIN	P-4	SYSTEM PUMP B&G WET ROTOR NFR-45 20.0 1 (SPEED-2)	1.0' N/A	N/A N/A 3300	115V 2.3 F.V	NOTE#1 NOT	ETT:INTERCONNECT TO ETT: LOCHINVAR SUPPL ESTIC PRIORITY & BUR	LIER TO SET UP		230 S. Wa Saginaw, I 989-754-4 989-754-4 www.Spice
															DE. BY: ASW CH. BY: DR. BY: ASW APP. BY:	

		CLOSET P			DULE			CONNECTIONS (INCHES)	
TAG DESCRIPTION	MANUFACTURER & MODEL #	MATERIAL	FINISH / COLOR	CONNECTIONS (INCHES) CW HW SANITARY	ACCESSORIES & NOTES	DESCRIPTION MANUFACTU MODEL		CW HW SANITARY	ACCESSORIES & NOTES
C-1 ELONGATED, WALL MOUNTED WATER CLOSET, SIPHON JET, FLUSHING RIM, 750 LBF STATIC LOAD, WITH PROTECTIVE GL TOP SPUD CONNECTION, 2-1/8" TRAP, ADA ASME A112.19 (M TOP OF SEAT AT AT 17" ADA HEIGHT)	AZING, SLOAN	VITREOUS CHINA	GLOSS WHITE	1-1/2" — 4"	WC-1 = 17" (ADA) WC-2 = 15" INCLUDE: BEMIS WHITE, OPEN FRONT, HEAVY DUTY ELONGATED SEAT WITH 300 S.S.	ATERCLOSET FLUSHOMETER, 1-1/2" TOP SPUD, HANDS-FREE, IAL-FLUSH 1.6/1.1 GPM MULTIPLE FOCUS SENSING FIELD CONN, W/ MANUAL OVER-RIDE FLUSH, HARD-WIRED DUAL FLU A, ASSE 1037 AND ASME 112.19	6/1.1-HW BRASS & SEMI BRUSHED .USH RED BRASS STAINLESS	1" — 2. MUST INC 3. COORDIN	FIT UNDER 36" ADA GRAB BAR. LUDE MANUAL FLUSH BUTTON. ATE ELECTRICAL CONNECTION W/ E.C. COMPLETE FOR INSTALLATION.
ELONGATED, WALL MOUNTED WATER CLOSET, SIPHON JET FLUSHING RIM, 750 LBF STATIC LOAD, WITH PROTECTIVE G TOP SPUD CONNECTION, 2-1/8" TRAP, ADA ASME A112.19 (M TOP OF SEAT AT AT 15")	LAZING, SLOAN	VITREOUS CHINA	GLOSS WHITE	1-1/2" — 4"	POSTS AND PINTLES MODEL 1955SSCT; J.R. SMITH ADJUSTABLE HEAVY DUTY WALL CARRIER SYSTEM FOR SIPHON JET (SUPPLIER & CONTRACTOR TO PROVIDE FINAL WALL CARRIER PACKAGE FOR COMPLETE INSTALLATION FOR 8" CONCRETE BLOCK WALLS)	KINAL FLUSHOMETER, TOP SPUD, HANDS-FREE, 25 GPF, 3/4" CONN, W/ MANUAL OVER-RIDE FLUSH, RD-WIREDSLOAN ECOS 1. HW-0.125-O W/ MANUAL OV W/ MANUAL OV	186 BRASS & SEMI STAINLESS OR-HW RED BRASS STEEL	3/4" 3. COORDIN	LUDE MANUAL FLUSH BUTTON. ATE ELECTRICAL CONN. W/ W.C. COMPLETE FOR INSTALLATION.
ELONGATED, FLOOR MOUNTED WATER CLOSET, SIPHON JE FLUSHING RIM, WITH PROTECTIVE GLAZING, TOP SPUD CONNECTION, 2-1/8" TRAP, ADA ASME A112.19 (MOUNT TOP	SLOAN	VITREOUS CHINA	GLOSS WHITE	1-1/2" — 4"	INCLUDE: BEMIS WHITE, OPEN FRONT, HEAVY DUTY ELONGATED SEAT WITH 300 S.S. POSTS AND PINTLES MODEL 1955SSCT; COMPLETE INSTALLATION				
AT AT 17" ADA HEIGHT)			TURE SCH			PLUMBIN	NG MIXING VALVE SCHEDU	JLE	
AG DESCRIPTION	MANUFACTURER	MATERIAL	FINISH	CONNECTIONS (INCHE		DESCRIPTION MANUFACTURER & MATERI.	IAL REF. FLOW DATA STAND. MIN. GPM MAX. GPM (PSI) (PSI)	CONNS. TEMP.	ACCESSORIES & NOTES
LOW CONSUMPTION URINAL, 1/8 GPF, WASH-OUT DESIGN,	& MODEL #		/ COLOR	CW HW SANITARY	1. MOUNT AT ADA HEIGHT.		REE BRASS ODY 1.0 GPM 12.0 GPI	M. 1/2" 1/2" 110°F	
EXTENDED RIM, WALL-MOUNT, 3/4" TOP SPUD, 2" REAR DRA URINAL. AD ANSI A112.19.2	IN SU-1009-STG	VITREOUS CHINA	GLOSS WHITE	3/4" — 2"	2. INCLUDE WALL HANGER COMPLETE FOR INSTALLATION.	ANOLAGOE 4070 S.S. 3	SPRING ASSE 1070 (5.0 PSI) (30.0 PS N RINGS	1) 1/2 1/2 1/2	
	SI	NK PLUMBI	NG FIXTUR	E SCHEDULE	-	SINK F	AUCET PLUMBING FIXTUR	E SCHEDULE	
DESCRIPTION	MANUFACTURER & MODEL #	MATERIAL	FINISH / COLOR	CONNECTIONS (INCHES) CW HW SANITARY	ACCESSORIES & NOTES	DESCRIPTION MANUFACTUR MODEL #	IRER & FINISH		ACCESSORIES & NOTES
K-1 WALL-HUNG LAVATORY, SEEMLESS SOLID SURFACE, VANDAL RESISTANT, 4" CENTERSET (FIELD DRILL AS NEEDE WITH ADA TRAP COVER, ANSI 117.1 NSF	ED) BRADLEY GLX-1 (34" AFF)	TERREON COMPOSITE	PROVIDE COLOR SWATCH	1/2" 1/2" 2"	4" CENTERSET (FIELD DRILL OR REQUEST THRU SUPPLIER) 1/4 TURN CHROME-PLATED BRASS VALVES, INCLUDE INTEGRAL ADA TRAP GUARD, MOUNT TOP OF SINK AT 34" AFF	CHITECTURAL LAVATORY SINK FAUCET IGLE CENTER HOLE, HANDS-FREE, WIRED AC POWER BRADLEY MATCHING SOAP DISPENSER VERGE-MET	Y BRUSHED		G VERGE SOAP DISPENSER. D THERMOSTATIC MIXING VALVE (SET TO 110°F).
WALL-HUNG LAVATORY, SEEMLESS SOLID SURFACE, VANDAL RESISTANT, 4" CENTERSET (FIELD DRILL AS NEEDE WITH ADA TRAP COVER, NON-ADA MOUNT HEIGHT = 30"	ED) BRADLEY GLX-1 (30" AFF - CHILD HEIGHT)	TERREON COMPOSITE	PROVIDE COLOR SWATCH	1/2" 1/2" 2"	SAME AS SINK-1 BUT WITH TOP OF BOWL AT 30" AFF. (FOR KIDS)	ME A112.18.1, ANSI A117.1 ADA CHITECTURAL LAVATORY SINK FAUCET		3. 1/4 TURN INCLUDE:	CHROME-PLATED BRASS VALVES, S.S. FLEX. INLET HOSES, & GRID DRAIN
K-3 OVAL UNDERMOUNT LAVATORY SINK, 4" CENTERSET ADA, ASME A112.19.2	KOHLER CAXTON OVAL K-2210	VITREOUS CHINA	PROVIDE COLOR SWATCH	1/2" 1/2" 2"	4" CENTERSET, INCLUDE INTEGRAL ADA TRAP GUARD, MOUNT TOP PER ADA REQUIREMENTS	GLE CENTER HOLE, HANDS-FREE, WIRED AC POWER BRADLEY MATCHING SOAP DISPENSER VERGE-MET ME A112.18.1, ANSI A117.1 ADA CHITECTURAL LAVATORY SINK FAUCET	Y BRASS BODY BRUSHED STAINLESS STEEL	1/2" 1/2" — 2. ASSE 107	G VERGE SOAP DISPENSER.) THERMOSTATIC MIXING VALVE (SET TO 110°F), CHROME-PLATED BRASS VALVES, S.S. FLEX. INLET HOSES, & GRID DRAIN
FLOOR-MOUNT MOP BASIN, 24"x24"x10" DURASTONE REINFORCED FIBERGLASS INTEGRAL 3" PVC DRAIN W/ STRAINER ANSI Z 124-2017	MUSTEE 63M	MOLDED REINFORCED FIBERGLASS	WHITE	1/2" 1/2" 2"	INCLUDE: 1. FCT-4, 63.600A SERVICE MOP FAUCET 2. 65.700 SERVICE HOSE AND HOLDER 3. 65.600 SERVICE MOP HANGER	IGLE CENTER HOLE, HANDS-FREE, WIRED AC POWER BRADLEY MATCHING SOAP DISPENSER VERGE-MET ME A112.18.1, ANSI A117.1 ADA		1/2" 1/2"	G VERGE SOAP DISPENSER. D THERMOSTATIC MIXING VALVE (SET TO 110°F), CHROME-PLATED BRASS VALVES, S.S. FLEX. INLET HOSES, & GRID DRAIN
NK-5 9" BACK SPLASH, DUAL L/R 18" DRAIN BOARDS,	OARDS ELKAY DEPENDBUILT 14-3C18x24-2-18X	16 GAGE, 304 STAINLESS	HIGH POLISH SATIN S.S.	1/2" 1/2" 3"	4. 63.401 BUMPER GUARDS AND CORNER PLATES INCLUDE: REAR OVERFLOW DRAIN, REMOVABLE BASKET STRAINERS	E SINK-4 SCHEDULE. INCLUDED AS ACCESSORY TO SINK-4. (SEE SINK- (SEE SINK-		1/2" 1/2" — 8" CENTERSET	
16 GAGE 304 S.S. W/ (4) 1.63" O.D. LEGS, COMMERCIAL KITCHEN HAND-WASHING SINK 18 GAGE 304 STAINLESS STEEL, WITH FAUCET	ELKAY	STEEL 18 GAGE, 304 STAINLESS	GLOSS WHITE	1/2" 1/2" 2"	INCLUDE: 1. FCT-5: FAUCET, 6" GOOSENECK, W/ WRIST-BLADES, ADA, ANSI A117.1, NSF	MMERCIAL SIDEWALL KITCHEN FAUCE 1, 12" SWING TOBULAR, T&S BRAS 'H PRE-RINSE SPRAYER W/ FLEXIBLE STAINLESS STEEL HOSE, T&S BRAS 'ENTERSET, 4" WRIST BLADES, 2.0 GPM, B-0133-ADF 'A ANSI A117.1 & A112.18.1 LEAD FREE B-0133-ADF		1/2" 1/2" — 8" CENTERSET INCLUDE: COM	PLETE FOR INSTALLATION
K-6 18"x14-1/2"x11", ASME A112.19.3, NSF-2, FAUCET NSF 372 LEAD FREE, NSF-61	EHS-18X	STEEL		1/2 1/2 2"	 2. GRID DRAIN 3. COMPLETE FOR INSTALLATION, MOUNT AT ADA HEIGHT. 	E SINK-6 SCHEDULE. INCLUDED AS ACCESSORY TO SINK-6. (SEE SINK-		1/2" 1/2"	
	FLOOR D	RAIN PLUN	MBING FIXT	URE SCHEDUL	E		EXHAUST FAN SCH	IEDULE	
G DESCRIPTION	MANUFACTURER & MODEL #	MATERIAL	FINISH / COLOR	CONNECTIONS (INCHES)	ACCESSORIES & NOTES	LOCATION SERVES DESCRIPTION MANUFACTURER & MODEL #	& AIRFLOW DATA NOISE DA CFM E.S.P FAN HP FAN RPM SONES de		CONTROL SEQUENCE ACCESSORIES & NOTES
EMERGENCY FLOOR DRAIN, ADJUSTABLE, 6" CAST IRON BC FLANGE INTEGRAL CLAMPING COLLAR, NO HUB, ROUND	DDY W/ JAY R. SMITH SERIES 2005Y-(075)	BODY: CAST IRON	STRAINER: NICKEL BRONZE	3"	CONTRACTOR TO VERIFY FLOOR DEPTH, AND REQUIRED BODY AND FLANGE. INCLUDE 3" TRAP SEAL DEVICE FOR SCHEDULE 40 PVC OR CAST IRON NO HUB CONNECTION. PROVIDE	GANG SERVES CENTRIFUGAL INLINE GREENHECK BATHROOMS DIRECT DRIVE SPA510	500 0.13" N/A 1070 4.5 N/	VERIFY 1.9	ON WITH MEN'S OR WOMEN'S OCCUPANCY SENSOR
NICKEL-BRONZE TOP, AND TRAP SEAL DEVICE FLOOR CLEAN-OUT, FLANGE INTEGRAL CLAMPING COLLAR, NO HUB, ROUND NICKEL-BRONZE TOP, 3" OR 4" AS SHOWN.	HP NB 6"Ø TOP JAY R. SMITH 4020	BODY: CAST IRON	OR STAINLESS STRAINER: NICKEL BRONZE	3" OR 4" (SEE PLANS	COMPLETE FOR INSTALLATION. 1. GASKET SEAL 2. ABS PLUG	SOUTH SERVES CENTRIFUGAL INLINE GREENHECK	100 0.13" N/A 950 0.8 N/	VERIFY 0.62	(INCLUDE RELAY). ON WITH FAMILY BATHROOM 1. BACKDRAFT DAMPER
W/ SEAL ABS PLUG FLOOR SINK, ACID RESISTANT COATED, SANITARY RECEPT FLANGED, DEEP WELL12"x10" DEEP NO HUB. WITH DOME STRAINER. NO TOP GRATE		BODY: CAST IRON	OR STAINLESS STRAINER: NICKEL BRONZE OR STAINLESS	(SEE PLANS	1. 10" DEEP 2. W/ DOME STRAINER	BUILDING BATHROOMS EXHAUST FAN CSPA110	100 0.13" N/A 950 0.8 N/.	A W/SHOPS 120V (F.V.) 15	OCCUPANCY SENSOR
AIR ADMITTANCE VALVE AV-1 MINI-VENT, 1-1/2"	STUDOR MINI-VENT	DUCO COATED BODY: ABS	OR STAINLESS WHITE	2"	3. NO TOP GRATE	GRILLE, REGIST	TER, AND DIFFUSER (GRD)) SCHEDULE	
ANSI/ASSE 1051 A&B, NSF 14					<u> </u>	DESCRIPTION DISCHARGE MANUFACTURER & MODEL #	FRAME MATERIAL COLOR LENGTH (INCHES)	WIDTH (NCHES) DAMPER ACC	ESSORIES & NOTES
AG DESCRIPTION	HOSE BI MANUFACTURER & MODEL #		ING FIXTUF FINISH / COLOR	RE SCHEDULE	ACCESSORIES & NOTES	EXHAUST AIR GRILLE /2" BLADE SPACING, 35° FIXED SINGLE DEFLECTION, SURFACE MOUNT	SURFACE ALUMINUM WHITE SE MOUNT ALUMINUM PAINT PLAI		
HOSE-BIBB FREEZELESS OUTDOOR, WALL-MOUNT, 3/4" HOSE-END W/ VACUUM BREAKER, ASSE 1019C, 125 PSI	WOODFORD MODEL 65	BRASS BODY S.S.SEAT EPDM PACKING		1/2" — —	3/4" HOSE CONN. INCLUDE TEE-KEY		MINI-SPLIT SCHEDULE -	HEAT PUMP	
	WATER		ARRESTOR	SCHEDULE		INDOOR UNIT		& HEAT COOLING LIN	ITDOOR UNIT
AG DESCRIPTION		MANUFACTU	IRER &		TAL DIMS (INCHES) ACCESSORIES & NOTES	MODEL # CONFIGURATION CEM	PTH HEIGHT LBS. MODEL #		LIQ. LBS. VOLTAGE F.L.A. M.F.S. INCLUDE:
WATER HAMMER ARRESTOR, COMMERCIAL, LEAD FREE, 8		MODEL PRECISION PLUMBING SC-1250D, 1-1/4" B.	# PRODUCTS	COPPER & BRASS	FUs HEIGHT CONN. 1" SUPPLIER TO VERIFY SELECTION FOR LISTED FIXTURE	FUJITSU ASU07RLF1 FUJITSU ASU12RLF1 WALL-MOUNT 514 20" 20" W/ 2.0 TON OUTDOOR UNIT	" 66" 255 LBS. FUJITSU 24RLXFZ OUTDOOR UNIT	24.0 2.0 R-410A 1/4"	1/2"145 LBS208/60/1Ø17.0201. HARDWIRED T-STAT (MOUNT AT 8'-0" AFF) 2. LINESET 3. CONDENSER MOUNT PAD
APPROVED	,	SC-1250D, 1-1/4" B. (PDI D)	" a \\ \L	W/ EPDM SEALS	78.5 9.5" NPT UNITS	HYDRONI	C ACCESSORIES SCHEDU		
NAA	NUFACTURER	BACKFLO	i	SCHEDULE	DNNS.	DESCRIPTION MANUFACTURER & MODEL #	DATA	ELECTRICAL DATA VOLTAGE M.C.A.	ESSORIES & NOTES
		ATERIAL	STAND. MIN. (PS	GPM MAX. GPM	ACCESSORIES & NOTES	HIGH EFFICIENCY AIR BELL AND GOSSETT 1" NPT	.OSS = 0.3 FT.		
RPZ-1 REDUCED PRESSURE ZONE VALVE ASSEMBLY		TAINLESS STEEL	AWWA 0.0 G C511-92 (7.5 F		2" NOTE: RPZs MODELS MUST BE APPROVED BY THE CITY OF SAGINAW. INCLUDE STRAINER & ISOLATION BALL VALVES	VERTICAL, PRE-CHARGED BELL AND GOSSETT TANK VC	RED ACCEPTANCE = 2.5 GAL. 'OLUME = 4.4 GAL. ' = 14.0", DIA. =11.0"		
_	I	DRINKING	G FOUNTAI	N SCHEDULE		VERTICAL, PRE-CHARGED BELL AND GOSSETT TANK VC	RED ACCEPTANCE = 0.9 GAL. 'OLUME = 3.0 GAL. ' = 8.0", DIA. =12.63"		
G DESCRIPTION	MANUFACTURER & MODEL #	ATERIAL FINISH		DIMENSIONAL DATA	WEIGHT (LBS.) CW SAN. ELECTRICAL ACCESSORIES & NOTES	GLYCOL MAKE-UP SYSTEM WESSELS 6.0 GALL TANK, PUMP, & CONTROLS G-6 PRESSU	L MAKE-UP PACKAGE LON, 25 PSI JRIZATION PUMP WITH INTEGRAL PRESSURE CONTROL, GAGE, PREV, AND POLY TANK		EM WITH PRE-MIXED 35% NE GLYCOL DOWFROST
F-1 OUTDOOR EZH2O UPPER BOTTLE FILLING STATION TRI-LEVEL PEDESTAL, DRINKING FOUNTAIN, NON-FILTERED, NON-REFRIGERATED, BARRIER-FRE	ELKAY S MODEL ST	TAINLESS EEL BOWL COLOR SW	DE	HAZ DEFTH HEIGHT H8" (1) OF (2) DIA. ADA = 27" MAX. B.O. BOWL	215 1/2" N/A 1. RIGHT-HAND ADA HIGH SIDE FOUNTAIN (COORDINATE W ARCH.) 2. INCLUDE DIRECT BURY ADAPTOR	1", 3/4" & 1/2" PEX-A, POLYETHYLENE UPONOR HEPEY PLUS ASTM F			
ADA, NSF 42, ANSI 53, WITH DIRECT BURY ADAPTO					ADAPTOR 3. M.C. TO INCLUDE ALL NECESSARY FOR COMPLETE INSTALLATION				DWM ISSUE FOR CLIENT REVIEW BY MARK REVISIONS THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY
	COMBIN BURNER DATA		TER HEATE	R - BOILER SC			P DATA ELECTRICAL DA	ACCESSORIES & NOTES	SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN W/ DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHE
TAG DESCRIPTION MANUFACTURE & MODEL #				VENTING WPD COMB. AIR EXHAUST	CONTROLS ELECTRICAL DATA ACCESSORIES & NOTES	& MODEL # GPM HEAD (FT. H20) N.P.S.F (FT. H20) INTERNAL DRIMARY SEE LOCHINVAR INTERNAL DRIMARY	H. IMP.Ø HP RPM VOLTAGE F.L.A. 20) (IN.)	M.F.S. INCLUDED & POWERED WITH BOILER	CENTRAL RESTROOM & C
WH-1 WH-1 HIGH EFFICIENCY, CONDENSING, COMBINATION DOMESTIC & HEATING WATER-TUBE BOILER, W/ MODULATING BURNER NKC199N	N.G. 199.0 MAX. 198.0 MAX. 1 19.9 MIN. 18.9 MIN.		WATER 5.2 30.0	1.0 3"Ø 3"Ø	BUILT-IN 1.5 1.5 1.5 COMBI PRIMARY-SECONDARY KIT SMART SYSTEM 115 1.5 15 2. CSD-1 LOW WATER CUT-OUT AND OTHER DIGITAL CONTROLLER 115 F.V. F.V. SEE TMV-2 (REQUIRED. 3. SEE TMV-2 (REQUIRED SEPARATELY)	INTERNAL PRIMARY SYSTEM PUMP NOBLE INSTALLATION INSTRUCTIONS		3	SAGINAW CHILDREN
						ADIANT LOOP #1 & #2 PUMP RED FOX 3-SPEED 2.0 15.0' N/A NFR-25 CAST IRON B&G	N/A N/A 3300 115 2.1 F.V.	15 CONTRACTOR TO SELECT COMPANIO F.V. FLANGES	MECHANIC
	TAG DESC		MANUFA	EASE TRAP SC		RADIANT LOOP #3 PUMP RED FOX 3-SPEED NFR-25 CAST IRON 1.0 10.0' N/A	N/A N/A 3300 115 2.1 F.V.	15 CONTRACTOR TO SELECT COMPANIO F.V. FLANGES	N SCHEDULE
	GREASE T				LENGTH WIDTH (DEPTH) HEIGHT CONNS. ACCESSORIES & NOTES	DIANT LOOP #4, #5, #6 PUMP RED FOX 3-SPEED 3.0 12.0' N/A NFR-25 CAST IRON	N/A N/A 3300 115 2.3 F.V.	15 CONTRACTOR TO SELECT COMPANIO F.V. FLANGES	N
		YLENE LOW-PROFILE, I ISTALLATION ISS LID, PDI CERTIFIED		HIER 1-CT 15 70	27" 23" 12" 2" PROVIDE COMPLETE FOR INSTALLATION. 27" 23" 12" 2" NOT TO BE USED W/ FOOD GRINDER WITHOUT WASTE INTERCEPTOR UPSTREAM FROM DRAIN	SYSTEM PUMP B&G WET ROTOR NFR-45 20.0 11.0' N/A (SPEED-2)	N/A N/A 3300 115V 2.3 F.V.	NOTE#1 NOTE#1:INTERCONNECT TO BOILER P NOTE#1 NOTE#2: LOCHINVAR SUPPLIER TO SE DOMESTIC PRIORITY & BURNER RATE	
									DE. BY: ASW CH. BY: DSB
									DR. BY: ASW APP. BY: DWM
									STDS. SHEET 35 DATE NOVEMBER 2, 2022 FILE NO.

	WATEF		PLUMBING FI	XTURE		ULE			FLUSH	ALVE PLUMB				
DESCRIPTION	MANUFACTURER & MODEL #	MATERIAL	FINISH / COLOR	CONNECT	TIONS (INCHES)	ACCESSORIES & NOTES	TAG	DESCRIPTION	MANUFACTUR MODEL #	ER & MATERIAL	FINISH / COLOR	CONNECTIONS (INC CW HW SAM	ACCESSORIES & N	OTES
ELONGATED, WALL MOUNTED WATER CLOSET, SIPHON JET, FLUSHING RIM, 750 LBF STATIC LOAD, WITH PROTECTIVE GLAZING TOP SPUD CONNECTION, 2-1/8" TRAP, ADA ASME A112.19 (MOUNT	SLOAN	VITREOUS CHINA	GLOSS WHITE	1-1/2" —	- 4"	WC-1 = 17" (ADA) WC-2 = 15"	FV-1	WATERCLOSET FLUSHOMETER, 1-1/2" TOP SPUD, HANDS-FREE, DUAL-FLUSH 1.6/1.1 GPM MULTIPLE FOCUS SENSING FIELD 1" CONN, W/ MANUAL OVER-RIDE FLUSH, HARD-WIRED	SLOAN ECOS 111-1.6/1. DUAL FLUS	H RED BRASS	BRUSHED STAINLESS	1"	1. 16-1/2" TO FIT UNDER 36" ADA GRAB BAR. 2. MUST INCLUDE MANUAL FLUSH BUTTON. 3. COORDINATE ELECTRICAL CONNECTION W/ E	.C.
OP OF SEAT AT AT 17" ADA HEIGHT) LONGATED, WALL MOUNTED WATER CLOSET, SIPHON JET, LUSHING RIM, 750 LBF STATIC LOAD, WITH PROTECTIVE GLAZING OP SPUD CONNECTION, 2-1/8" TRAP, ADA ASME A112.19 (MOUNT OP OF SEAT AT AT 15")	(17" ADA) G. SLOAN 2049-STG (15" AFF)	VITREOUS CHINA	A GLOSS WHITE	1-1/2" —	- 4"	INCLUDE: BEMIS WHITE, OPEN FRONT, HEAVY DUTY ELONGATED SEAT WITH 300 S.S. POSTS AND PINTLES MODEL 1955SSCT; J.R. SMITH ADJUSTABLE HEAVY DUTY WALL CARRIER SYSTEM FOR SIPHON JET (SUPPLIER & CONTRACTOR TO PROVIDE FINAL WALL CARRIER PACKAGE FOR COMPLETE INSTALLATION FOR 8" CONCRETE BLOCK WALLS)	FV-2	ADA, ASSE 1037 AND ASME 112.19 URINAL FLUSHOMETER, TOP SPUD, HANDS-FREE, 0.125 GPF, 3/4" CONN, W/ MANUAL OVER-RIDE FLUSH, HARD-WIRED ADA, ASSE 1037 AND ASME 112.19	HARD-WIRE SLOAN ECOS 186 HW-0.125-OR- W/ MANUAL OVEI	BRASS & SEMI HW RED BRASS	STEEL BRUSHED STAINLESS STEEL	3/4"	4. PROVIDE COMPLETE FOR INSTALLATION. 1. 16-1/2" 2. MUST INCLUDE MANUAL FLUSH BUTTON. 3. COORDINATE ELECTRICAL CONN. W/ W.C. 4. PROVIDE COMPLETE FOR INSTALLATION.	
F SEAT AT AT 15") GATED, FLOOR MOUNTED WATER CLOSET, SIPHON JET, ING RIM, WITH PROTECTIVE GLAZING, TOP SPUD ECTION, 2-1/8" TRAP, ADA ASME A112.19 (MOUNT TOP OF SE 17" ADA HEIGHT)	SLOAN	VITREOUS CHINA	GLOSS WHITE	1-1/2"	- 4"	INCLUDE: BEMIS WHITE, OPEN FRONT, HEAVY DUTY ELONGATED SEAT WITH 300 S.S. POSTS AND PINTLES MODEL 1955SSCT; COMPLETE INSTALLATION	·			· ···= -				
AT 1/ [*] ADA HEIGHT)					<u> </u>			1 1	i	G MIXING VAL				
DESCRIPTION	MANUFACTURER & MODEL #		FINISH (CONNECT	TIONS (INCHES W SANITARY		TAG	DESCRIPTION MANUFACTURE MODEL #	MATERIAL	STAND. MI	FLOW DATA N. GPM MAX. GPM (PSI) (PSI)	CONNS. TEM	ACCESSORIES & NOTES	
OW CONSUMPTION URINAL, 1/8 GPF, WASH-OUT DESIGN, XTENDED RIM, WALL-MOUNT, 3/4" TOP SPUD, 2" REAR DRAIN RINAL. AD ANSI A112.19.2	SLOAN SU-1009-STG	VITREOUS CHINA	GLOSS WHITE	3/4" —	- 2"	 MOUNT AT ADA HEIGHT. INCLUDE WALL HANGER COMPLETE FOR INSTALLATION. 	TMV-1	POINT OF USE, THERMOSTATIC, ABS, SYNTHETIC RUBBER MEMBRANE. ANSI ASSE 1070.	LEAD-FREE BODY S.S. SPI BUNA-N R	, RING ASSE 1070	1.0 GPM 12.0 GPM (5.0 PSI) (30.0 PS	A 1/2" 1/2" 11)°F	
	SI	NK PLUMB		SCHE	DULE									
DESCRIPTION	MANUFACTURER & MODEL #	MATERIAL	FINISH / COLOR		TIONS (INCHES)	ACCESSORIES & NOTES	TAG	DESCRIPTION	SINK FA MANUFACTURE MODEL #	UCET PLUMBII	FINISH / COLOR		ACCESSORIES &	NOTES
WALL-HUNG LAVATORY, SEEMLESS SOLID SURFACE, VANDAL RESISTANT, 4" CENTERSET (FIELD DRILL AS NEEDED) WITH ADA TRAP COVER, ANSI 117.1 NSF	BRADLEY GLX-1 (34" AFF)	TERREON COMPOSITE		1/2" 1/2"		4" CENTERSET (FIELD DRILL OR REQUEST THRU SUPPLIER) 1/4 TURN CHROME-PLATED BRASS VALVES, INCLUDE INTEGRAL ADA TRAP GUARD, MOUNT TOP OF SINK AT 34" AFF		ARCHITECTURAL LAVATORY SINK FAUCET SINGLE CENTER HOLE, HANDS-FREE, WIRED AC POWER	BRADLEY		BRUSHED	CW HW SANI	ARY INCLUDE: 1. MATCHING VERGE SOAP DISPENSER.	
WALL-HUNG LAVATORY, SEEMLESS SOLID SURFACE, VANDAL RESISTANT, 4" CENTERSET (FIELD DRILL AS NEEDED) WITH ADA TRAP COVER, NON-ADA MOUNT HEIGHT = 30"	BRADLEY GLX-1 (30" AFF - CHILD HEIGHT)	TERREON COMPOSITE	PROVIDE COLOR SWATCH	1/2" 1/2"	" 2"	SAME AS SINK-1 BUT WITH TOP OF BOWL AT 30" AFF. (FOR KIDS)	FCT-1	W/ MATCHING SOAP DISPENSER ASME A112.18.1, ANSI A117.1 ADA ARCHITECTURAL LAVATORY SINK FAUCET	VERGE-METRO) BRASS BODY	STAINLESS STEEL	1/2" 1/2" —	3. 1/4 TURN CHROME-PLATED BRASS VALVES, S INCLUDE:	
OVAL UNDERMOUNT LAVATORY SINK, 4" CENTERSET ADA, ASME A112.19.2	KOHLER CAXTON OVAL K-2210	VITREOUS CHINA	PROVIDE COLOR SWATCH	1/2" 1/2"	" 2"	4" CENTERSET, INCLUDE INTEGRAL ADA TRAP GUARD, MOUNT TOP PER ADA REQUIREMENTS	FCT-2	SINGLE CENTER HOLE, HANDS-FREE, WIRED AC POWER W/ MATCHING SOAP DISPENSER ASME A112.18.1, ANSI A117.1 ADA	BRADLEY VERGE-METRO	BRASS BODY	BRUSHED STAINLESS STEEL	1/2" 1/2" —	MATCHING VERGE SOAP DISPENSER. ASSE 1070 THERMOSTATIC MIXING VALVE (SE 1/4 TURN CHROME-PLATED BRASS VALVES, S INCLUDE:	
FLOOR-MOUNT MOP BASIN, 24"x24"x10" DURASTONE REINFORCED FIBERGLASS INTEGRAL 3" PVC DRAIN W/ STRAINER ANSI Z 124-2017	MUSTEE 63M	MOLDED REINFORCED FIBERGLASS	WHITE	1/2" 1/2"	' 2"	INCLUDE: 1. FCT-4, 63.600A SERVICE MOP FAUCET 2. 65.700 SERVICE HOSE AND HOLDER 3. 65.600 SERVICE MOP HANGER 4. 63.401 BUMPER GUARDS AND CORNER PLATES	FCT-3	ARCHITECTURAL LAVATORY SINK FAUCET SINGLE CENTER HOLE, HANDS-FREE, WIRED AC POWER W/ MATCHING SOAP DISPENSER ASME A112.18.1, ANSI A117.1 ADA	BRADLEY VERGE-METRO) BRASS BODY	BRUSHED STAINLESS STEEL	1/2" 1/2" —	1. MATCHING VERGE SOAP DISPENSER.	
COMMERCIAL 3-COMPARTMENT SCULLERY SINK W/ DRAINBOARD 94.0"x29.88" W/ (3) 14" DEEP SINKS, 8" CENTERSET 9" BACK SPLASH, DUAL L/R 18" DRAIN BOARDS,	S ELKAY DEPENDBUILT 14-3C18x24-2-18X	16 GAGE, 304 STAINLESS STEEL	HIGH POLISH SATIN S.S.	1/2" 1/2	." 3"	4. 63.401 BUMPER GUARDS AND CORNER PLATES INCLUDE: REAR OVERFLOW DRAIN, REMOVABLE BASKET STRAINERS		SEE SINK-4 SCHEDULE. INCLUDED AS ACCESSORY TO SINK-4.	MUSTEE (SEE SINK-4)		ROUGH CHROMED BRASS	1/2" 1/2" —	8" CENTERSET	
16 GAGE 304 S.S. W/ (4) 1.63" O.D. LEGS, COMMERCIAL KITCHEN HAND-WASHING SINK 18 GAGE 304 STAINLESS STEEL, WITH FAUCET	ELKAY EHS-18X	STEEL 18 GAGE, 304 STAINLESS	GLOSS WHITE	1/2" 1/2		INCLUDE: 1. FCT-5: FAUCET, 6" GOOSENECK, W/ WRIST-BLADES, ADA, ANSI A117.1, NSF 2. CRID DRAIN	FC1-5	WITH PRE-RINSE SPRAYER W/ FLEXIBLE STAINLESS STEEL HOSE, B" CENTERSET, 4" WRIST BLADES, 2.0 GPM, ADA ANSI A117.1 & A112.18.1 LEAD FREE	T&S BRASS B-0133-ADF12-		CHROME	1/2" 1/2" —	INCLUDE: COMPLETE FOR INSTALLATION	
18"x14-1/2"x11", ASME A112.19.3, NSF-2, FAUCET NSF 372 LEAD FREE, NSF-61		STEEL				 2. GRID DRAIN 3. COMPLETE FOR INSTALLATION, MOUNT AT ADA HEIGHT. 	FCT-6	SEE SINK-6 SCHEDULE. INCLUDED AS ACCESSORY TO SINK-6.	ELKAY (SEE SINK-6)	BRASS BODY	CHROME	1/2" 1/2" —		
	FLOOR I	DRAIN PLU	JMBING FIXTU	JRE SC	CHEDUL	Ξ				r	T FAN SCH			
DESCRIPTION	MANUFACTURER & MODEL #	MATERIAL	FINISH / COLOR		TIONS (INCHES) V SANITARY	ACCESSORIES & NOTES	TAG	LOCATION SERVES DESCRIPTION	ANUFACTURER & MODEL #	AIRFLOW DATA			LECTRICAL DATA CONTROL TAGE F.L.A. M.F.S. SEQUENCE	ACCESSORIES & NOTE
EMERGENCY FLOOR DRAIN, ADJUSTABLE, 6" CAST IRON BODY W/ FLANGE INTEGRAL CLAMPING COLLAR, NO HUB, ROUND NICKEL-BRONZE TOP, AND TRAP SEAL DEVICE	JAY R. SMITH SERIES 2005Y-(075) HP NB 6"Ø TOP	BODY: CAST IRON	STRAINER: NICKEL BRONZE OR STAINLESS		- 3"	CONTRACTOR TO VERIFY FLOOR DEPTH, AND REQUIRED BODY AND FLANGE. INCLUDE 3" TRAP SEAL DEVICE FOR SCHEDULE 40 PVC OR CAST IRON NO HUB CONNECTION. PROVIDE COMPLETE FOR INSTALLATION.	EF-1	GANG SERVES CENTRIFUGAL INLINE BATHROOM BATHROOMS DIRECT DRIVE EXHAUST FAN	GREENHECK SPA510	500 0.13" N/A 1	070 4.5 N/a	A VERIFY W/SHOPS 1	20V 1.9 (F.V.) 15 ON WITH MEN'S OR WOMEN'S OCCUPANCY SENSOR (INCLUDE RELAY).	1. BACKDRAFT DAMPER
FLOOR CLEAN-OUT, FLANGE INTEGRAL CLAMPING COLLAR, NO HUB, ROUND NICKEL-BRONZE TOP, 3" OR 4" AS SHOWN. W/ SEAL ABS PLUG	JAY R. SMITH 4020	BODY: CAST IRON	STRAINER: NICKEL BRONZE OR STAINLESS		- 3" OR 4" (SEE PLANS	·	EF-2	SOUTH SERVES DIRECT DRIVE BUILDING BATHROOMS EXHAUST FAN	GREENHECK CSPA110	100 0.13" N/A	950 0.8 N/ <i>i</i>	A VERIFY W/SHOPS 1	20V 0.62 (F.V.) 15 ON WITH FAMILY BATHROOM OCCUPANCY SENSOR	1. BACKDRAFT DAMPER
FLOOR SINK, ACID RESISTANT COATED, SANITARY RECEPTOR, FLANGED, DEEP WELL12"x12"x10" DEEP NO HUB, WITH DOME STRAINER, NO TOP GRATE AIR ADMITTANCE VALVE	JAY R. SMITH 3440Y-(255)-10	BODY: CAST IRON DUCO COATED	STRAINER: NICKEL BRONZE OR STAINLESS		- 4"	1. 10" DEEP 2. W/ DOME STRAINER 3. NO TOP GRATE				ER, AND DIFFU				
MINI-VENT, 1-1/2" ANSI/ASSE 1051 A&B, NSF 14	STUDOR MINI-VENT	BODY: ABS	WHITE		- 2"		TAG	DESCRIPTION DISCHARGE MAN	NUFACTURER &	FRAME MATERIAL			BALANCE DAMPER ACCESSORIES & NOTES	
DESCRIPTION	MANUFACTURER	1			TIONS (INCHES	ACCESSORIES & NOTES	EG-1	EXHAUST AIR GRILLE THROW / BLADES 1/2" BLADE SPACING, 35° FIXED SINGLE SINGLE DEFLECTION, DEFLECTION SURFACE MOUNT DEFLECTION	TITUS	SURFACE ALUMINUM	WHITE SE PAINT PLAT	E SEE	EXTERNAL SEE PLANS)	
HOSE-BIBB FREEZELESS OUTDOOR, WALL-MOUNT, 3/4" HOSE-END W/ VACUUM BREAKER, ASSE 1019C, 125 PSI	& MODEL # WOODFORD MODEL 65	BRASS BODY S.S.SEAT EPDM PACKING	ROUGH CHROME		V SANITARY	3/4" HOSE CONN. INCLUDE TEE-KEY		I I		MINI-SPLIT SC	HEDULE -			ı
	WATER	thammer	ARRESTOR	3CHED			TAG			HES) WEIGHT	MANUFACTURER	& HEAT COOL		ICAL DATA ACCESSOR
		MANUFACTI MODEL	URER & M	MATERIAL	то	TAL DIMS (INCHES) FUS HEIGHT CONN. ACCESSORIES & NOTES	MS-1 MS-2 & HP-1	MODEL # CONFIGURATION CFM FUJITSU ASU07RLF1 FUJITSU ASU12RLF1 W/ 2.0 TON OUTDOOR UNIT WALL-MOUNT 514	WIDTH DEPTH 20" 20"		MODEL # FUJITSU 24RLXFZ OUTDOOR UNIT	MBH TONS 24.0 2.0	REF. GAS LIQ. LBS. VOLTAGE R-410A 1/4" 1/2" 145 LBS 208/60/1Ø	F.L.A. M.F.S. 17.0 20 17.0 20 17.0 20 17.0 20
WATER HAMMER ARRESTOR, COMMERCIAL, LEAD FREE, 80 PSI M PRESSURE, 60 PSI PRE-CHARGED NITROGEN40°F - 212°F, PDI T APPROVED		PRECISION PLUMBING SC-1250D, 1-1/4" (PDI D)	" BARREL	COPPER & BF W/ EPDM SE		78.5 9.5" NPT SUPPLIER TO VERIFY SELECTION FOR LISTED FIXTURE UNITS		· · · ·		ACCESSORIE	SSCHEDU		· · · · · ·]
		BACKFLC	OW DEVICE S				TA		RER	DATA		ELECTRICAL		
G DESCRIPTION MANUFA & MO	CTURER DEL #	MATERIAL	REF. FLC STAND. MIN. GF (PSI)		X GPM	ACCESSORIES & NOTES	AS	HIGH EFEICIENCY AIR BELL AND GOSSE				VOLTAGE M.C.A.		
	WATTS S LEAD FREE	STAINLESS STEEL	AWWA 0.0 GPM C511-92 (7.5 PSI	M 80.0) GPM 5 PSI) 2"	2" <u>NOTE: RPZs MODELS MUST BE APPROVED BY THE CITY OF SAGINAW.</u> INCLUDE STRAINER & ISOLATION BALL VALVES	ET	EXPANSION TANK BELL AND GOSSET	REQUIRED	ACCEPTANCE = 2.5 GAL. JME = 4.4 GAL. 4.0", DIA. =11.0"				
		 DRINKIN		SCHF		<u> </u>	ET	POTABLE EXPANSION TANK NOTABLE EXPANSION TANK	TT REQUIRED	4.0", DIA. =11.0" ACCEPTANCE = 0.9 GAL. JME = 3.0 GAL. .0", DIA. =12.63"				
DESCRIPTION	MANUFACTURER & MODEL #	MATERIAL FINIS				WEIGHT (LBS.) CONNS. (IN.) ELECTRICAL ACCESSORIES & NOTES	Gī		GLYCOL M/ 6.0 GALLON PRESSURIZ	AKE-UP PACKAGE I, 25 PSI ZATION PUMP WITH INTEGRAL	PRESSURE CONTROL,	115V F.V.	15A FILL SYSTEM WITH PRE-MIXED 35% PROPYLENE GLYCOL DOWFROST	
OUTDOOR EZH2O UPPER BOTTLE FILLING STATION TRI-LEVEL PEDESTAL, DRINKING FOUNTAIN, NON-FILTERED, NON-REFRIGERATED, BARRIER-FREE	FIKAY	STAINLESS STEEL BOWL COLOR S	VIDE	." 14" DIA.	(1) OF (2)	215 1/2" FEED W/ 2" N/A 1. RIGHT-HAND ADA HIGH SIDE FOUNTAIN (COORDINATE W ARCH.) 2. INCLUDE DIRECT BURY ADAPTOR 2. INCLUDE DIRECT BURY ADAPTOR	PE) TUBII (NOI POTAE	G PEX-A, POLYETHYLENE UPONOR - HOT CROSS-LINKED EXTRUDED HEPEX PLUS	TANK, GAG 3/4" NOMII ASTM F87 200°F @ 1	6/877 & A	2" NOMINAL STM F876/877 00°F @ 100 PSI			
ADA, NSF 42, ANSI 53, WITH DIRECT BURY ADAPTOR						ADAPTOR 3. M.C. TO INCLUDE ALL NECESSARY FOR COMPLETE INSTALLATION								DWM ISS BY MARK
							TAG	DESCRIPTION MANUFACTURER	PUMP D		ELECTRICAL DA		SSORIES & NOTES	THE WORK REPRESENTED E SPECIFIC APPLICATION AND WITH THE CONDITIONS PRE DOES NOT GUARANTEE AND DESIGN OR PURPOSE.
TAG DESCRIPTION MANUFACTURER & MODEL # FUE	BURNER DATA		HEAT EXCHANGER		/ENTING B. EXHAUST	CONTROLS ELECTRICAL DATA ACCESSORIES & NOTES		BECOMIN HOW & MODEL # GPM (F INTERNAL DRIMARY SEE LOCHINVAR	(M.F.S.	WERED WITH BOILER PACKAGE	CENTRA
HIGH EFFICIENCY, CONDENSING, COMBINATION DOMESTIC & HEATING WATER-TUBE BOILER, W/ MODULATING BURNER	S. 199.0 MAX. 198.0 MAX. 19.9 MIN. 18.9 MIN.	10:1 95 316 S.S.	WATER TUBE 5.2 30.0	1.0 3"Ø FT. PVC	3"Ø PVC	BUILT-IN SMART SYSTEM1151.5<	P-B1	SYSTEM PUMP NOBLE INSTALLATION INSTRUCTIONS B&G RADIANT LOOP #1 & #2 PUMP RED FOX 3-SPEED 2.0	 15.0' N/A	 N/A N/A 3300	SEE WH-1 POWER	15 CONTRACTOR	O SELECT COMPANION	S,
			GRE	ASE T	RAP SCI	HEDULE	P-2	NFR-25 CAST IRON B&G B&G 1.0	10.0' N/A	N/A N/A 3300	F.V. 115 2.1		O SELECT COMPANION	
TAG	DES	SCRIPTION		TURER &	CAPACITY	DIMENSIONS (INCHES) ACCESSORIES & NOTES LENGTH WIDTH (DEPTH) HEIGHT CONNS.	P-3	NFR-25 CAST IRON B&G	12.0' N/A		г.v. 115 2.3		O SELECT COMPANION	
GT-1	HIGH DENSITY POLYET	TRAP ASSEMBLY THYLENE LOW-PROFILE INSTALLATION ESS LID, PDI CERTIFIED	GB1-0	ER CT		27" 23" 12" 2" UNDERSINK MOUNT ON FLOOR PROVIDE COMPLETE FOR INSTALLATION. NOT TO BE USED W/ FOOD GRINDER WITHOUT WASTE INTERCEPTOR UPSTREAM FROM DRAIN	P-4	NFR-25 CAST IRON B&G WET ROTOR SYSTEM PUMP NFR-45 20.0	11.0' N/A	N/A N/A 3300 N/A N/A 3300	115V 2.3	NOTE#1 NOTE#2: LOCHI	ONNECT TO BOILER POWER. IVAR SUPPLIER TO SET UP	
			I		L			(SPEED-2)			F.V.	DOMESTIC PRI	RITY & BURNER RATE	
														DE. BY: ASW DR. BY: ASW
														STDS. DATE NOVEMBER

			•	E SCHED	DULE	
DESCRIPTION	MANUFACTURER & MA	ATERIAL / COLOR		W SANITARY	ACCESSORIES & NOTES	TAG DESCRIPTION MANUFACTURER & MODEL # MATERIAL FINISH / COLOR ACCESSORIES & NOTES
ELONGATED, WALL MOUNTED WATER CLOSET, SIPHON JET, FLUSHING RIM, 750 LBF STATIC LOAD, WITH PROTECTIVE GLAZING, TOP SPUD CONNECTION, 2-1/8" TRAP, ADA ASME A112.19 (MOUNT	2043-010	OUS CHINA GLOSS WHITE	1-1/2" -		WC-1 = 17" (ADA) WC-2 = 15" INCLUDE: BEMIS WHITE, OPEN FRONT, HEAVY DUTY ELONGATED SEAT WITH 300 S.S.	FV-1 WATERCLOSET FLUSHOMETER, 1-1/2" TOP SPUD, HANDS-FREE, DUAL-FLUSH 1.6/1.1 GPM MULTIPLE FOCUS SENSING FIELD SLOAN FV-1 DUAL-FLUSH 1.6/1.1 GPM MULTIPLE FOCUS SENSING FIELD ECOS 111-1.6/1.1-HW BRASS & SEMI RED BRASS BRUSHED 1" 1. 16-1/2" TO FIT UNDER 36" ADA GRAB BAR. 1" OUAL-FLUSH 1.6/1.1 GPM MULTIPLE FOCUS SENSING FIELD ECOS 111-1.6/1.1-HW BRASS & SEMI RED BRASS BRUSHED 1" 1. 16-1/2" TO FIT UNDER 36" ADA GRAB BAR. ADA, ASSE 1037 AND ASME 112.19 DUAL FLUSH BRASS & SEMI RED BRASS BRUSHED 1" 1. 16-1/2" TO FIT UNDER 36" ADA GRAB BAR. BRUSHED 1" CONN, W/ MANUAL OVER-RIDE FLUSH, HARD-WIRED DUAL FLUSH BRASS & SEMI RED BRASS BRUSHED 1" 1. 16-1/2" TO FIT UNDER 36" ADA GRAB BAR. BRUSHED DUAL FLUSH BRASS & SEMI NED BRASS BRUSHED 5TAINLESS 1" 1. 0-1/2" TO FIT UNDER 36" ADA GRAB BAR. BRUSHED DUAL FLUSH HARD-WIRED DUAL FLUSH BRUSHED 5TEEL 1" 1. 0-1/2" TO FIT UNDER 36" ADA GRAB BAR.
TOP OF SEAT AT AT 17" ADA HEIGHT) ELONGATED, WALL MOUNTED WATER CLOSET, SIPHON JET, FLUSHING RIM, 750 LBF STATIC LOAD, WITH PROTECTIVE GLAZING, TOP SPUD CONNECTION. 2-1/8" TRAP. ADA ASME A112.19 (MOUNT	(17" ADA) SLOAN 2049-STG VITRE	EOUS CHINA GLOSS WHITE	1-1/2" -	4"	INCLUDE: BEMIS WHITE, OPEN FRONT, HEAVY DUTY ELONGATED SEAT WITH 300 S.S. POSTS AND PINTLES MODEL 1955SSCT; J.R. SMITH ADJUSTABLE HEAVY DUTY WALL CARRIER SYSTEM FOR SIPHON JET (SUPPLIER & CONTRACTOR TO PROVIDE FINAL WALL CARRIER PACKAGE FOR COMPLETE INSTALLATION FOR 8" CONCRETE BLOCK WALLS)	FV-2 URINAL FLUSHOMETER, TOP SPUD, HANDS-FREE, 0.125 GPF, 3/4" CONN, W/ MANUAL OVER-RIDE FLUSH, HARD-WIRED SLOAN ECOS 186 HW-0.125-OR-HW BRASS & SEMI RED BRASS BRUSHED STAINLESS OTTEL 1. 16-1/2" 2. MUST INCLUDE MANUAL FLUSH BUTTON. 3. COORDINATE FLECTRICAL CONN. W/ W.C.
TOP OF SEAT AT AT 15") ELONGATED, FLOOR MOUNTED WATER CLOSET, SIPHON JET,	(15" AFF)				INCLUDE: BEMIS WHITE, OPEN FRONT, HEAVY DUTY ELONGATED SEAT WITH 300 S.S. POSTS AND PINTLES MODEL 1955SSCT; COMPLETE INSTALLATION	ADA, ASSE 1037 AND ASME 112.19 W/ MANUAL OVER-RIDE 4. PROVIDE COMPLETE FOR INSTALLATION.
CONNECTION, 2-1/8" TRAP, ADA ASME A112.19 (MOUNT TOP OF SEAT AT AT 17" ADA HEIGHT)	2026-STG VITRE	EOUS CHINA GLOSS WHITE	1-1/2" -			PLUMBING MIXING VALVE SCHEDULE
		NAL FIXTURE SC		TIONS (INCHES		TAG DESCRIPTION MANUFACTURER & MATERIAL REF. FLOW DATA CONNS. TEMP. ACCESSORIES & NOTES
G DESCRIPTION LOW CONSUMPTION URINAL, 1/8 GPF, WASH-OUT DESIGN,	& MODEL #	TERIAL / COLOR	CW +		ACCESSORIES & NOTES	POINT OF USE, THERMOSTATIC, LEAD-FREE BRASS EARS POINT OF USE, THERMOSTATIC, LEAD-FREE BRASS POINT OF USE, THERMOSTATIC, Description
EXTENDED RIM, WALL-MOUNT, 3/4" TOP SPUD, 2" REAR DRAIN URINAL. AD ANSI A112.19.2	SLOAN VITRE SU-1009-STG	EOUS CHINA GLOSS WHITE	3/4" -	2"	 MOUNT AT ADA HEIGHT. INCLUDE WALL HANGER COMPLETE FOR INSTALLATION. 	TMV-1ABS, SYNTHETIC RUBBER MEMBRANE. ANSI ASSE 1070.LEONARD ASSE 1070BODY BUNA-N RINGSASSE 10701.0 GPM (5.0 PSI)12.0 GPM (30.0 PSI)1/2"1/2"1/2"10 CPM (30.0 PSI)1.0 GPM (30.0 PSI)1.0 GPM (30.0 PSI)1/2"1/2"1/2"1/2"
	SINK P	LUMBING FIXTU	RE SCHE	EDULE		SINK FAUCET PLUMBING FIXTURE SCHEDULE
DESCRIPTION	MANUFACTURER & MA	ATERIAL / COLOR		W SANITARY	ACCESSORIES & NOTES	TAG DESCRIPTION MANUFACTURER & FINISH CONNECTIONS (INCHES) MODEL # MATERIAL (COLOR ACCESSORIES & NOTES
WALL-HUNG LAVATORY, SEEMLESS SOLID SURFACE, VANDAL RESISTANT, 4" CENTERSET (FIELD DRILL AS NEEDED) WITH ADA TRAP COVER, ANSI 117.1 NSF		RREON PROVIDE COLOR MPOSITE SWATCH	1/2" 1/2	2" 2"	4" CENTERSET (FIELD DRILL OR REQUEST THRU SUPPLIER) 1/4 TURN CHROME-PLATED BRASS VALVES, INCLUDE INTEGRAL ADA TRAP GUARD, MOUNT TOP OF SINK AT 34" AFF	ARCHITECTURAL LAVATORY SINK FAUCET BRADLEY BRUSHED INCLUDE: SINGLE CENTER HOLE HANDS-FREE WIRED AC POWER BRADLEY BRUSHED 1. MATCHING VERGE SOAP DISPENSER.
WALL-HUNG LAVATORY, SEEMLESS SOLID SURFACE, VANDAL RESISTANT, 4" CENTERSET (FIELD DRILL AS NEEDED)	BRADLEY TE GLX-1 CON	RREON PROVIDE COLOR MPOSITE SWATCH	1/2" 1/2	2" 2"	SAME AS SINK-1 BUT WITH TOP OF BOWL AT 30" AFF. (FOR KIDS)	FCT-1 W/ MATCHING SOAP DISPENSER ASME A112.18.1, ANSI A117.1 ADA VERGE-METRO V
WITH ADA TRAP COVER, NON-ADA MOUNT HEIGHT = 30" OVAL UNDERMOUNT LAVATORY SINK, 4" CENTERSET ADA, ASME A112.19.2	(30" AFF - CHILD HEIGHT) KOHLER CAXTON OVAL	TREOUS PROVIDE COLOR CHINA SWATCH	1/2" 1/2	2" 2"	4" CENTERSET, INCLUDE INTEGRAL ADA TRAP GUARD, MOUNT TOP PER ADA REQUIREMENTS	FCT-2 ARCHITECTURAL LAVATORY SINK FAUCET SINGLE CENTER HOLE, HANDS-FREE, WIRED AC POWER W/ MATCHING SOAP DISPENSER ASME A112.18.1, ANSI A117.1 ADA BRADLEY VERGE-METRO BRADLEY VERGE-METRO BRADLEY VERGE-METRO BRASS BODY 1/2" 1/2" 1/2" 1/2" 1. MATCHING VERGE SOAP DISPENSER. 2. ASSE 1070 THERMOSTATIC MIXING VALVE (SET TO 110°F), 3. 1/4 TURN CHROME-PLATED BRASS VALVES, S.S. FLEX. INLET HOSES, & GRID DRAIN
FLOOR-MOUNT MOP BASIN, 24"x24"x10" DURASTONE REINFORCED FIBERGLASS INTEGRAL 3" PVC DRAIN W/ STRAINER	MUSTEE REIN	OLDED NFORCED WHITE	1/2" 1/2	2" 2"	INCLUDE: 1. FCT-4, 63.600A SERVICE MOP FAUCET 2. 65.700 SERVICE HOSE AND HOLDER	FCT-3 ARCHITECTURAL LAVATORY SINK FAUCET SINGLE CENTER HOLE, HANDS-FREE, WIRED AC POWER W/ MATCHING SOAP DISPENSER ASME A112.18.1, ANSI A117.1 ADA BRADLEY VERGE-METRO BRASS BODY BRUSHED STAINLESS STEEL 1/2" 1/2" INCLUDE: 1. MATCHING VERGE SOAP DISPENSER. 2. ASSE 1070 THERMOSTATIC MIXING VALVE (SET TO 110°F), 3. 1/4 TURN CHROME-PLATED BRASS VALVES, S.S. FLEX. INLET HOSES, & GRID DRAIN
ANSI Z 124-2017 COMMERCIAL 3-COMPARTMENT SCULLERY SINK W/ DRAINBOARDS	63M FIBE				 65.600 SERVICE MOP HANGER 63.401 BUMPER GUARDS AND CORNER PLATES INCLUDE: REAR OVERFLOW DRAIN, REMOVABLE BASKET STRAINERS 	FCT-4 SEE SINK-4 SCHEDULE. INCLUDED AS ACCESSORY TO SINK-4. MUSTEE (SEE SINK-4) BRASS BODY ROUGH CHROMED BRASS 1/2" 1/2"
94.0"x29.88" W/ (3) 14" DEEP SINKS, 8" CENTERSET 9" BACK SPLASH, DUAL L/R 18" DRAIN BOARDS, 16 GAGE 304 S.S. W/ (4) 1.63" O.D. LEGS,	14-3C18x24-2-18X STA	AGE, 304 AINLESS STEEL AINLESS SATIN S.S.	1/2" 1,	/2" 3"		FCT-5 COMMERCIAL SIDEWALL KITCHEN FAUCET, 12" SWING TUBULAR, WITH PRE-RINSE SPRAYER W/ FLEXIBLE STAINLESS STEEL HOSE, 8" CENTERSET, 4" WRIST BLADES, 2.0 GPM, B-0133-ADF12-B BRASS BODY CHROME 1/2" 1/2" 8" CENTERSET INCLUDE: COMPLETE FOR INSTALLATION
COMMERCIAL KITCHEN HAND-WASHING SINK 18 GAGE 304 STAINLESS STEEL, WITH FAUCET 18"x14-1/2"x11", ASME A112.19.3, NSF-2, FAUCET NSF 372 LEAD FREE, NSF-61	ELKAY STA	AGE, 304 AINLESS STEEL	1/2" 1,	/2" 2"	INCLUDE: 1. FCT-5: FAUCET, 6" GOOSENECK, W/ WRIST-BLADES, ADA, ANSI A117.1, NSF 2. GRID DRAIN 3. COMPLETE FOR INSTALLATION. MOUNT AT ADA HEIGHT.	B* CENTERSET, 4" WRIST BLADES, 2.0 GPM, ADA ANSI A117.1 & A112.18.1 LEAD FREE B-0133-ADF 12-B
		I		1		(SEE SINK-6) 0.000000 0.0000000 0.0000000000000000
<u>г</u>					Ξ	TAG LOCATION SERVES DESCRIPTION MANUFACTURER & AIRFLOW DATA NOISE DATA WEIGHT ELECTRICAL DATA CONTROL
		ATERIAL FINISH / COLOR				TAG LOCATION SERVES DESCRIPTION MODEL # CFM E.S.P FAN HP FAN RPM SONES dBA LBS. VOLTAGE F.L.A. M.F.S. SEQUENCE ACCESSORIES & NOTES
EMERGENCY FLOOR DRAIN, ADJUSTABLE, 6" CAST IRON BODY W/ FLANGE INTEGRAL CLAMPING COLLAR, NO HUB, ROUND NICKEL-BRONZE TOP, AND TRAP SEAL DEVICE		BODY: STRAINER: NICKEL BRONZE OR STAINLESS STRAINER			CONTRACTOR TO VERIFY FLOOR DEPTH, AND REQUIRED BODY AND FLANGE. INCLUDE 3" TRAP SEAL DEVICE FOR SCHEDULE 40 PVC OR CAST IRON NO HUB CONNECTION. PROVIDE COMPLETE FOR INSTALLATION.	E EF-1 GANG BATHROOM BATHROOMS DIRECT DRIVE BATHROOMS DIRECT DRIVE EXHAUST FAN GREENHECK SPA510 500 0.13" N/A 1070 4.5 N/A VERIFY W/ SHOPS 120V 1.9 (F.V.) 15 OCCUPANCY SENSOR (INCLUDE RELAY).
FLOOR CLEAN-OUT, FLANGE INTEGRAL CLAMPING COLLAR, NO HUB, ROUND NICKEL-BRONZE TOP, 3" OR 4" AS SHOWN. W/ SEAL ABS PLUG	4020 CA	BODY: NICKEL BRONZE OR STAINLESS		3" OR 4" (SEE PLANS	1. GASKET SEAL 2. ABS PLUG	EF-2 SOUTH BUILDING SERVES BATHROOMS CENTRIFUGAL INLINE DIRECT DRIVE CSPA110 100 0.13" N/A 950 0.8 N/A VERIFY W/ SHOPS 120V 0.62 (F.V.) 15 ON WITH FAMILY BATHROOM 1. BACKDRAFT DAMPER
FLOOR SINK, ACID RESISTANT COATED, SANITARY RECEPTOR, FLANGED, DEEP WELL12"x12"x10" DEEP NO HUB, WITH DOME STRAINER, NO TOP GRATE	JAY R. SMITH CA	BODY: STRAINER: AST IRON NICKEL BRONZE O COATED OR STAINLESS		- 4"	1. 10" DEEP 2. W/ DOME STRAINER 3. NO TOP GRATE	
AIR ADMITTANCE VALVE MINI-VENT, 1-1/2" ANSI/ASSE 1051 A&B, NSF 14		BODY: WHITE		- 2"		TAG DISCHARGE MANUFACTURER & FRAME MATERIAL COLOR DIMENSIONS NECK Ø" BALANCE ACCESSORIES & NOTES
	HOSE BIBB F	PLUMBING FIXTU	IRE SCH	IEDULE		TAG DESCRIPTION THROW / BLADES MODEL # FRAME MATERIAL COLOR LENGTH WIDTH (INCHES) DAMPER ACCESSORIES & NOTES EXHAUST AIR GRILLE TITUS SUBFACE WHITE SEE SEE EXTERNAL NONE
DESCRIPTION		TERIAL / COLOR	CONNEC	TIONS (INCHES	ACCESSORIES & NOTES	EG-1 1/2" BLADE SPACING, 35° FIXED SINGLE TITUS SURFACE ALUMINUM WHITE SEE SEE EXTERNAL 1/2" BLADE SPACINO, 35° FIXED SINGLE DEFLECTION, DEFLECTION DEFLECTION 355FS MOUNT ALUMINUM WHITE SEE SEE EXTERNAL SURFACE MOUNT DEFLECTION DEFLECTION 355FS MOUNT ALUMINUM PAINT PLANS PLANS (SEE PLANS)
HOSE-BIBB FREEZELESS OUTDOOR, WALL-MOUNT, 3/4" HOSE-END W/ VACUUM BREAKER, ASSE 1019C, 125 PSI	WOODFORD BRAS	SS BODY S.SEAT ROUGH CHROME PACKING	1/2" -		3/4" HOSE CONN. INCLUDE TEE-KEY	MINI-SPLIT SCHEDULE - HEAT PUMP
		MMER ARRESTO				INDOR UNIT
DESCRIPTION		NUFACTURER &	MATERIA	, то		$\frac{1}{1000} = \frac{1}{1000} = 1$
WATER HAMMER ARRESTOR, COMMERCIAL, LEAD FREE, 80 PSI MAX	X. SYSTEM	MODEL #		WF	US HEIGHT CONN. ACCESSORIES & NOTES	MS-1 FUJITSU ASU07RLF1 FUJITSU ASU12RLF1 W/ 2.0 TON OUTDOOR UNIT W/ 2.0 TON OUTDOOR UNIT WALL-MOUNT S14 20" 20" 20" 66" 255 LBS. FUJITSU 24RLXFZ OUTDOOR UNIT C 255 LBS. FUJITSU 24RLXFZ OUTDOOR UNIT C 255 LBS. FUJITSU 24RLXFZ OUTDOOR UNIT C 255 LBS. FUJITSU 24RLXFZ OUTDOOR UNIT C 20 2.0 R-410A 1/4" 1/2" 145 LBS 208/60/10 17.0 20 20 17.0 20 10.1 CLUDE: C LINESET C CONDENSER MOUNT PAD
PRESSURE, 60 PSI PRE-CHARGED NITROGEN40°F - 212°F, PDI TEST APPROVED		(PDI D)	COPPER & E W/ EPDM S		8.5 9.5" NPT UNITS	HYDRONIC ACCESSORIES SCHEDULE
	BA	CKFLOW DEVICE	SCHED	ULE		TAG DESCRIPTION MANUFACTURER DATA ELECTRICAL DATA ACCESSORIES & NOTES
DESCRIPTION MANUFACT		L STAND. MI			NNS. ACCESSORIES & NOTES	A MODEL # VOLTAGE M.F.S. HIGH EFFICIENCY AIR BELL AND GOSSETT 1" NPT
-1 REDUCED PRESSURE WA ZONE VALVE ASSEMBLY 994 LEA	ATTS STAINLESS	s AWWA 0.	GPM 80.0	(PSI) INLE 0 GPM 5 PSI) 2"	2" <u>NOTE: RPZs MODELS MUST BE APPROVED BY THE CITY OF SAGINAW.</u> INCLUDE STRAINER & ISOLATION BALL VALVES	AS-1 SEPARATOR ESB-1-JR HEAD LOSS = 0.3 FT. EXPANSION TANK VERTICAL, PRE-CHARGED BELL AND GOSSETT REQUIRED ACCEPTANCE = 2.5 GAL. TANK VOLUME = 4.4 GAL
994 LEA						E1-1 VERTICAL PRE-CHARGED HFT-30 HEIGHT = 14.0", DIA. =11.0" POTABLE EXPANSION TANK BELL AND GOSSETT REQUIRED ACCEPTANCE = 0.9 GAL.
1			IN SCHE		WEICHT CONNS. (IN.) ELECTRICAL ACCESSORIES &	BUTYL RUBBER (NON-ASME) PT-5 HEIGHT = 8.0", DIA. =12.63" GLYCOL MAKE-UP SYSTEM WESSELS GLYCOL MAKE-UP PACKAGE 6.0 GALLON, 25 PSI FILL SYSTEM WITH PRE-MIXED 35%
	& MODEL #	/ COLOR W	IDTH x 2 DEPTI		(LBS.) CW SAN.	GT-1 TANK, PUMP, & CONTROLS G-6 PRESSURIZATION PUMP WITH INTEGRAL PRESSURE CONTROL, TANK, GAGE, PREV, AND POLY TANK 115V F.V. 15A PROPYLENE GLYCOL DOWFROST PEX 1" 3/4" & 1/2"
OUTDOOR EZH2O UPPER BOTTLE FILLING STATION TRI-LEVEL PEDESTAL, DRINKING FOUNTAIN, NON-FILTERED, NON-REFRIGERATED, BARRIER-FREE ADA, NSF 42, ANSI 53, WITH DIRECT BURY ADAPTOR	ELKAY STAINLESS MODEL STEEL BOW LK4430BF1U	S PROVIDE POWDER-COAT NONE COLOR SWATCH	48" DIA. MAX		215 1/2" FEED 2" N/A 1. RIGHT-HAND ADA HIGH SIDE FOUNTAIN (COORDINATE W ARCH.) 2. INCLUDE DIRECT BURY ADAPTOR 3. M.C. TO INCLUDE ALL NECESSARY FOR COMPLETE INSTALLATION	PEX 1", 3/4" & 1/2" TUBING PEX-A, POLYETHYLENE NON- HOT CROSS-LINKED EXTRUDED POTABLE) TUBING W/ OXYGEN BARRIER
ADAPTON COMPLETE INSTALLATION						BY MARK PUMP SCHEDULE THE WORK REPRESENTED BY THIS DRAW SPECIFIC APPLICATION AND SPECIFIC AD SPECIFIC APPLICATION ADD SPECIFIC APPLICATION SPECIFICATION SPECIFIC APPLICA
COMBINATION WATER HEATER - BOILER SCHEDULE DESCRIPTION MANUFACTURER BURNER DATA HEAT EXCHANGER VENTING TAG DESCRIPTION MANUFACTURER ACCESSORIES & NOTES					ELECTRICAL DATA	TAG DESCRIPTION MANUFACTURER & MODEL # GPM (FT H20) (FT H20) (FT H20) (N) HP RPM VOLTAGE F.L.A. M.F.S. ACCESSORIES & NOTES
WO BLOCK WINCH & MODEL # FUEL INPUT (MBH) OUTPUT (MBH) TURN- DOWN AFUE MAT. TYPE GAL. GPM WPD COMB. AIR EXHAUST VOLTAGE F.L.A. M.F.S.					VOLTAGE F.L.A. M.F.S. BUILT-IN 1. COMBI PRIMARY-SECONDARY KIT	P-B1 INTERNAL PRIMARY SYSTEM PLIMP SYSTEM PLIMP NOBLE INSTALLATION SEE WH-1 POWER SHIP POWER SHIP POWER SEE WH-1 POWER
COMBINATION DOMESTIC & HEATING LOCHINVAR	199.0 MAX. 198.0 MAX. 10:1 19.9 MIN. 18.9 MIN.	95 316 WATER S.S. TUBE 5.2 30	0 1.0 3"Ø FT. PVC		BUILT-IN 1.5	R BAG BAG SECTIONS BAG SECTIONS SPEED 2.0 15.0' N/A N/A N/A SCALAR STATES SECTIONS SELECT COMPANION
				RAP SCI		Image: Process of the proces of the process of the process of the process of the process of th
TAG	DESCRIPTIO	MANU	ACTURER &	CAPACITY		NFR-25 CAST IRON N/A F.V. F.V. FLANGES
	GREASE TRAP ASS HIGH DENSITY POLYETHYLENE LO	SEMBLY .OW-PROFILE, UNDER	SCHIER	GPM LBS.	LENGTH (DEPTH) HEIGHT CONNS. UNDERSINK MOUNT ON FLOOR PROVIDE COMPLETE FOR INSTALLATION.	P-3 RADIANT LOOP #4, #5, #6 PUMP RED FOX 3-SPEED 3.0 12.0' N/A N/A N/A 3300 115 2.3 15 CONTRACTOR TO SELECT COMPANION FLANGES
GT-1	SINK INSTALLAT WITH 21" ACCESS LID, PE	TION	GB1-CT	15 70	27" 23" 12" 2" NOT TO BE USED W/ FOOD GRINDER WITHOUT WASTE INTERCEPTOR UPSTREAM FROM DRAIN	P-4 SYSTEM PUMP B&G WET ROTOR NFR-45 (SPEED-2) 20.0 11.0' N/A N/A N/A 3300 115V 2.3 F.V. NOTE#1 NOTE#1:INTERCONNECT TO BOILER POWER. NOTE#2: LOCHINVAR SUPPLIER TO SET UP DOMESTIC PRIORITY & BURNER RATE
						DE. BY: ASW CH. BY
						DR. BY: ASW APP. E
						STDS. DATE NOVEMBER 2, 2022

				בועדי יי			1	[ELLIQUA						
MA	NUFACTURER &		FINISH		RE SCHED		IES & NOTES	TAG	DESCR		MANUFACTUR	ALVE PLUM	FINISH		NECTIONS (INCHES)	ACCESSORIE	-S&NOTES
PHON JET,	MODEL #	MATERIAL	/ COLOR	CW	HW SANITARY			WA	ATERCLOSET FLUSHOMETER, 7	1-1/2" TOP SPUD, HANDS-FRI	MODEL # EE, SLOAN	MATERIAL	/ COLO	R _{CW}	HW SANITARY	1. 16-1/2" TO FIT UNDER 36" ADA GRAB BAI	R.
ECTIVE GLAZING, A112.19 (MOUNT	SLOAN 2049-STG (17" ADA)	VITREOUS CHINA	GLOSS WHITE	1-1/2"		WC-1 = 17" (ADA) WC-2 = 15" INCLUDE: BEMIS WHITE, OPEN FRONT, HEAV POSTS AND PINTLES MODEL 1955SSCT: J.R.		FV-1 1" (AD	JAL-FLUSH 1.6/1.1 GPM MULTIPI CONN, W/ MANUAL OVER-RIDE DA, ASSE 1037 AND ASME 112.19	FLUSH, HARD-WIRED 9	ECOS 111-1.6/1. DUAL FLUSI HARD-WIRE	RED BRASS	II BRUSHE STAINLES STEEL			 MUST INCLUDE MANUAL FLUSH BUTTOI COORDINATE ELECTRICAL CONNECTIO PROVIDE COMPLETE FOR INSTALLATIO 	N. N W/ E.C.
PHON JET, ECTIVE GLAZING, 112.19 (MOUNT	SLOAN 2049-STG (15" AFF)	VITREOUS CHINA	GLOSS WHITE	1-1/2"	<u> </u>	CARRIER SYSTEM FOR SIPHON JET (SUPPLI WALL CARRIER PACKAGE FOR COMPLETE II WALLS)	ER & CONTRACTOR TO PROVIDE FINAL	FV-2 0.1 HA	RINAL FLUSHOMETER, TOP SPU 125 GPF, 3/4" CONN, W/ MANUAL ARD-WIRED DA, ASSE 1037 AND ASME 112.19	L ÓVER-RIDE FLÚSH,	SLOAN ECOS 186 HW-0.125-OR-I W/ MANUAL OVEF		II BRUSHE STAINLE STEEL			1. 16-1/2" 2. MUST INCLUDE MANUAL FLUSH BUTTOI 3. COORDINATE ELECTRICAL CONN. W/W 4. PROVIDE COMPLETE FOR INSTALLATIO	.C.
PHON JET, PUD INT TOP OF SEAT	SLOAN	VITREOUS CHINA	GLOSS WHITE	1-1/2"	4"	INCLUDE: BEMIS WHITE, OPEN FRONT, HEA POSTS AND PINTLES MODEL 1955SSCT; COI			,		I W/ MANUAL OVEF		I	I	1	4. PROVIDE COMPLETE FOR INSTALLATIO	ι ν .
NT TOP OF SEAT	2026-STG										PLUMBING	G MIXING VA	LVE SCH	EDULE			
MA	NUFACTURER		XTURE SC		E ECTIONS (INCHES		IES & NOTES	TAG	DESCRIPTION	MANUFAC MODE		REF. STAND.	FLOW DATA	AX. GPM	NNS. TEMP.	ACCESSORIES & NOTES	
ESIGN,	& MODEL #	MATERIAL VITREOUS CHINA	/ COLOR GLOSS WHITE	-	HW SANITARY	1. MOUNT AT ADA HEIGHT.			POINT OF USE, THERMOSTATIO ABS, SYNTHETIC RUBBER MEM	ABRANE LEONA			1.0 GPM 1	2.0 GPM 1/2"			
EAR DRAIN	SU-1009-STG		GLOSS WHITE	3/4 ^{~~}	2"	2. INCLUDE WALL HANGER COMPLETE FO	R INSTALLATION.		ANSI ASSE 1070.	ASSE 1	070 S.S. SPF BUNA-N R		(5.0 PSI) (:	30.0 PSI)			
		NK PLUMB	ING FIXTU		HEDULE						SINK FA	JCET PLUME	BING FIXT	URE SC	HEDULE		
	NUFACTURER & MODEL #	MATERIAL	/ COLOR		HW SANITARY	ACCESSOR 4" CENTERSET (FIELD DRILL OR REQUEST TH	IES & NOTES	TAG	DESCRIPTIO	N	MANUFACTURE MODEL #	R & MATERIAL	FINISH / COLOR	CON	HW SANITARY	ACCESSOR	RIES & NOTES
E, S NEEDED)	BRADLEY GLX-1 (34" AFF)	TERREON COMPOSITE	PROVIDE COLOR SWATCH	1/2"	1/2" 2"	1/4 TURN CHROME-PLATED BRASS VALVES, I MOUNT TOP OF SINK AT 34" AFF	NCLUDE INTEGRAL ADA TRAP GUARD,	SIN	RCHITECTURAL LAVATORY SINK NGLE CENTER HOLE, HANDS-FF MATCHING SOAP DISPENSER	REE, WIRED AC POWER	BRADLEY VERGE-METRO	BRASS BODY	BRUSHED STAINLESS ST	EEL 1/2"	1/2" —	INCLUDE: 1. MATCHING VERGE SOAP DISPENSER. 2. ASSE 1070 THERMOSTATIC MIXING VAL	
CE, AS NEEDED) = 30" (30",	BRADLEY GLX-1 AFF - CHILD HEIGHT)	TERREON COMPOSITE	PROVIDE COLOR SWATCH	1/2"	1/2" 2"	SAME AS SINK-1 BUT WITH TOP OF BOWL AT		ASI	CHITECTURAL LAVATORY SINK NGLE CENTER HOLE, HANDS-FF	K FAUCET	BRADLEY		BRUSHED			INCLUDE: 1. MATCHING VERGE SOAP DISPENSER.	VES, S.S. FLEX. INLET HOSES, & GRID DRAIN
ET	KOHLER CAXTON OVAL K-2210	VITREOUS CHINA	PROVIDE COLOR SWATCH	1/2"	1/2" 2"	4" CENTERSET, INCLUDE INTEGRAL ADA TRA MOUNT TOP PER ADA REQUIREMENTS	AP GUARD,	ASI	NGLE CENTER HOLE, HANDS-FH / MATCHING SOAP DISPENSER SME A112.18.1, ANSI A117.1 ADA RCHITECTURAL LAVATORY SINK		VERGE-METRO	BRASS BODY	STAINLESS ST		1/2" —	2. ASSE 1070 THERMOSTATIC MIXING VAL	VE (SET TO 110°F), /ES, S.S. FLEX. INLET HOSES, & GRID DRAIN
	MUSTEE 63M	MOLDED REINFORCED FIBERGLASS	WHITE	1/2"	1/2" 2"	INCLUDE: 1. FCT-4, 63.600A SERVICE MOP FAUCET 2. 65.700 SERVICE HOSE AND HOLDER 3. 65.600 SERVICE MOP HANGER		FCT-3 SIN	CHITECTORAL LAVATORY SINK NGLE CENTER HOLE, HANDS-FF / MATCHING SOAP DISPENSER SME A112.18.1, ANSI A117.1 ADA	REE, WIRED AC POWER	BRADLEY VERGE-METRO	BRASS BODY	BRUSHED STAINLESS ST		1/2" —	 MATCHING VERGE SOAP DISPENSER. ASSE 1070 THERMOSTATIC MIXING VALV 	VE (SET TO 110°F), VES, S.S. FLEX. INLET HOSES, & GRID DRAIN
		16 GAGE, 304	HIGH POLISH	4.00	1/01 ~"	4. 63.401 BUMPER GUARDS AND CORNER F INCLUDE: REAR OVERFLOW DRAIN, REMOVA		FCT-4 SEE	E SINK-4 SCHEDULE. INCLUDE	D AS ACCESSORY TO SINK-4	MUSTEE (SEE SINK-4)	BRASS BODY	ROUGH CHROMED BR	ASS 1/2"	1/2" —		
	4-3C18x24-2-18X	STAINLESS STEEL 18 GAGE, 304	SATIN S.S.	1/2"	1/2" 3"	INCLUDE:		FCT-5 WIT 8" C	MMERCIAL SIDEWALL KITCHEN TH PRE-RINSE SPRAYER W/ FLE CENTERSET, 4" WRIST BLADES, ANNEL A117, 1, 8, 4112, 18, 1, 1, 5, 0	EXIBLE STAINLESS STEEL HC , 2.0 GPM,		BRASS BODY	CHROME	1/2"	1/2" —	8" CENTERSET INCLUDE: COMPLETE FOR INSTALLATION	
	ELKAY EHS-18X	STAINLESS STEEL	GLOSS WHITE	1/2"	1/2" 2"	 FCT-5: FAUCET, 6" GOOSENECK, W/ WRI GRID DRAIN COMPLETE FOR INSTALLATION, MOUNT 			A ANSI A117.1 & A112.18.1 LEAD		ELKAY (SEE SINK-6)	BRASS BODY	CHROME	1/2"	1/2" —		
		יי יח ואו אסר					1	- <u> </u>	2 <u></u>			EXHAI	JST FAN S	SCHEDU	_E		
MA	NUFACTURER &		FINISH		SCHEDUL			TAG	LOCATION SERVES	DESCRIPTION	MANUFACTURER & MODEL #	AIRFLOW DA	TA NOI	SE DATA M	ELECT	RICAL DATA CONTROL	ACCESSORIES & NOT
IRON BODY W/	MODEL #	BODY:	/ COLOR STRAINER:		HW SANITARY	CONTRACTOR TO VERIFY FLOOR DEPTH, AN	IES & NOTES	EE 1	GANG SERVES	CENTRIFUGAL INLINE	GREENHECK	CFM E.S.P FAN HP			ERIFY	F.L.A. M.F.S. SEQUENCE 1.9 0N WITH MEN'S OR WOMEN OCCUPANCY SENSOR	
	ERIES 2005Y-(075) HP NB 6"Ø TOP JAY R. SMITH	CAST IRON BODY:	NICKEL BRONZE OR STAINLESS STRAINER: NICKEL BRONZE			COMPLETE FOR INSTALLATION. 1. GASKET SEAL	DR CAST IRON NO HUB CONNECTION. PROVIDE		BATHROOM BATHROOMS	CENTRIFUGAL INLINE	SPA510	500 0.13" N/A	1070 4.5		SHOPS ^{120V}	(F.V.) 15 OCCOPANCY SENSOR (INCLUDE RELAY).	OM 1. BACKDRAFT DAMPER
RECEPTOR,	4020 JAY R. SMITH	CAST IRON BODY: CAST IRON	OR STAINLESS STRAINER: NICKEL BRONZE		(SEE PLANS	5) 2. ABS PLUG 1. 10" DEEP 2. W/ DOME STRAINER		EF-2	SOUTH SERVES BUILDING BATHROOMS		GREENHECK CSPA110	100 0.13" N/A	950 0.8		ERIFY 120V SHOPS 120V	0.62 (F.V.) 15 ON WITH FAMILY BATHROO OCCUPANCY SENSOR	
	3440Y-(255)-10 STUDOR	DUCO COATED BODY:	OR STAINLESS WHITE		4"	2. W/ DOME STRAINER 3. NO TOP GRATE				GRI	LLE, REGISTE	R, AND DIFF	-USER (G	RD) SCH	EDULE		
	MINI-VENT	ABS						TAG	DESCRIPTION	DISCHARGE THROW / BLADES	MANUFACTURER & MODEL #	FRAME MATERIAL	COLOR LEN	DIMENSIONS IGTH WIDTH HES) (INCHES)	NECK Ø" BAL (INCHES) DAM	ANCE ACCESSORIES & NOTES	
МА	HOSE BI		BING FIXT		CHEDULE	5)		EG-1 1	EXHAUST AIR GRILLE 1/2" BLADE SPACING, 35° FIXED SINGLE DEFLECTION,	SINGLE DEFLECTION		SURFACE ALUMINUM		SEE PLANS	SEE EXTE PLANS (SEE F		
	& MODEL #	BRASS BODY	/ COLOR		HW SANITARY	ACCESSOR 3/4" HOSE CONN. INCLUDE TEE-KEY	IES & NOTES		SURFACE MOUNT								
	MODEL 65	S.S.SEAT EPDM PACKING	ROUGH CHROME	1/2"						INDOOR UN		MINI-SPLIT S	SCHEDUL	.E - HEA	T PUMP	OUTDOOR UNIT	
	WATER	HAMMER						TAG	MANUFACTURER & MODEL #			, WEIGHT	- MANUFACT MODE		AT COOLING	LINESET WEIGHT EL	ECTRICAL DATA ACCESSO
		MANUFACT MODE		MATER		TAL DIMS (INCHES) FUS HEIGHT CONN.	CCESSORIES & NOTES	MS-1 MS-2 & HP-1	FUJITSU ASU07RLF1 FUJITSU ASU12RLF1 W/ 2.0 TON OUTDOOR UNIT	WALL-MOUNT	514 20" 20"	66" 255 LBS.	FUJITSU 24 OUTDOOR	RLXFZ 24		R-410A 1/4" 1/2" 145 LBS 208/60	0/1Ø 17.0 20 INCLUDE: 1. HARDWIRED T-S' 2. LINESET
) FREE, 80 PSI MAX. SYS `F - 212°F, PDI TESTED A		PRECISION PLUMBIN SC-1250D, 1-1/4" (PDI D)	BARREL	COPPER W/ EPDM	& BRASS M SEALS 7	78.5 9.5" 1" SUPPLIER TO VE NPT UNITS	RIFY SELECTION FOR LISTED FIXTURE	& HP-1									3. CONDENSER MO
		, , , , , , , , , , , , , , , , , , ,										ACCESSOR	IES SCHE			Δ	
	R			FLOW DATA	4 CC	ONNS. ACCESSORIES & NOT	ES	TAG	DESCRIPTIO		EL#	DATA	Α		CTRICAL DAT	ACCESSORIES & NOT	ES
& MODEL #		IATERIAL		(PSI)	(101)	T OUTLET		AS-1	HIGH EFFICIENCY AIR SEPARATOR	ESB-1-	-JR HEAD LOSS						
WATTS 994 LEAD FR	EE	TAINLESS STEEL	AWWA (C511-92 (80.0 GPM (7.5 PSI) 2"	2" NOTE: RPZs MODELS MUST BE A INCLUDE STRAINER & ISOLATION	PPROVED BY THE CITY OF SAGINAW. NBALL VALVES	ET-1	EXPANSION TANK VERTICAL, PRE-CHAR BUTYL RUBBER (NON-A	RGED BELL AND G ASME) HFT-3	OSSETT TANK VOLU 30 HEIGHT = 1	ACCEPTANCE = 2.5 GAL. IME = 4.4 GAL. 4.0", DIA. =11.0"					
		DRINKIN	IG FOUNT					ET-2	POTABLE EXPANSION VERTICAL, PRE-CHAR BUTYL RUBBER (NON-A	RGED BELL AND G	OSSETT TANK VOLU HEIGHT = 8	ACCEPTANCE = 0.9 GAL. IME = 3.0 GAL. .0", DIA. =12.63" IKE-UP PACKAGE					
	ANUFACTURER & MODEL #	ATERIAL FINIS		DIMENSI WIDTH x 2 DE	IONAL DATA EPTH MOUNT HEIGHT	WEIGHT (LBS.) CONNS. (IN.) ELECTRICAL CW SAN.	ACCESSORIES & NOTES	GT-1	GLYCOL MAKE-UP SYS TANK, PUMP, & CONTF	STEM WESS ROLS G-I	6.0 GALLON PRESSURIZ		RAL PRESSURE CO	NTROL, 115\	F.V. 15A	FILL SYSTEM WITH PRE-MIXED 35% PROPYLENE GLYCOL DOWFROST	
STATION ITAIN, RIER-FREE	MODEL STI	TAINLESS EEL BOWL COLOR S	R-COAT NONE	48" E	14" (1) OF (2) DIA. ADA = 27" MAX. B.O. BOWL	215 1/2" FEED 2" N/A W/	 RIGHT-HAND ADA HIGH SIDE FOUNTAIN (COORDINATE W ARCH.) INCLUDE DIRECT BURY ADAPTOR 	PEX TUBING (NON-	1", 3/4" & 1/2" PEX-A, POLYETHYLEN HOT CROSS-LINKED EXTR	RUDED HEPEX	IOR 3/4" NOMIN PLUS ASTM F876	IAL \$/877 &	1/2" NOMINAL ASTM F876/877 200°F @ 100 PSI				
DAPTOR	LK4430BF1U			N		ADAPTOR	3. M.C. TO INCLUDE ALL NECESSARY FOR COMPLETE INSTALLATION	POTABLE)	TUBING W/ OXYGEN BAR		-A		-				DWM IS BY MARK
					OILER SCI					MANUFACTURER	PUMP D		ELECTRIC	CAL DATA			THE WORK REPRESENTED SPECIFIC APPLICATION AN WITH THE CONDITIONS PF DOES NOT GUARANTEE A DESIGN OR PURPOSE
DEL # FUEL (N	BURNER DATA PUT OUTPUT TU /IBH) (MBH) DO		HEAT EXCHANGER		VENTING COMB. AIR EXHAUST	CONTROLS VOLTAGE F.L.A. M.F.S.	ACCESSORIES & NOTES	TAG	DESCRIPTION	MANUFACTURER & MODEL # GP SEE LOCHINVAR	M HEAD N.P.S.H. (FT. H20) (FT. H20)	IMP.ØHPRPM	VOLTAGE F.L.			RIES & NOTES	DESIGN OR PURPOSE.
IVAR N.G. 199. LE 19.	D MAX. 198.0 MAX. 1 MIN. 18.9 MIN. 1	316	WATER TUBE 5.2 3	200 10 3	3"Ø 3"Ø	BUILT-IN SMART SYSTEM 115 F.V. F.V. DIGITAL CONTROLLER	 COMBI PRIMARY-SECONDARY KIT CSD-1 LOW WATER CUT-OUT AND OTHER CONTROLS AS REQUIRED. 	Р-В1	INTERNAL PRIMARY SYSTEM PUMP	NOBLE INSTALLATION			SEE WH-1				5
199N						DIGITAL CONTROLLER	3. SEE TMV-2 (REQUIRED SEPARATELY)	P-1 RA	ADIANT LOOP #1 & #2 PUMP	B&G RED FOX 3-SPEED NFR-25 CAST IRON) 15.0' N/A	N/A N/A 3300	115 2. F.V	1 15 /. F.V.	CONTRACTOR TO SE FLANGES	ECT COMPANION	
				BREASE	TRAP SCI	HEDULE DIMENSIONS (INCHES)		P-2	RADIANT LOOP #3 PUMP	B&G RED FOX 3-SPEED 1.0 NFR-25 CAST IRON) 10.0' N/A	N/A N/A 3300	115 2. F.V	1 15 /. F.V.	CONTRACTOR TO SE FLANGES	ECT COMPANION	
TAG		CRIPTION		MODEL #	~	LENGTH WIDTH (DEPTH) HEIGHT CONNS.	ACCESSORIES & NOTES	P-3 RAI	DIANT LOOP #4, #5, #6 PUMP	B&G RED FOX 3-SPEED 3.0 NFR-25 CAST IRON) 12.0' N/A	N/A N/A 3300	115 2.3 F.V	3 15 /. F.V.	CONTRACTOR TO SE FLANGES	LECT COMPANION	
GT-1	GH DENSITY POLYETH SINK IN		,	SCHIER GB1-CT	15 70	27" 23" 12" 2" PROVIE NOT TC	DE COMPLETE FOR INSTALLATION. DE USED W/ FOOD GRINDER WITHOUT WASTE EPTOR UPSTREAM FROM DRAIN	P-4	SYSTEM PUMP	B&G WET ROTOR NFR-45 20. (SPEED-2)	0 11.0' N/A	N/A N/A 3300	115V 2.3 F.V	3 NOTE#1	NOTE#1:INTERCONNE	CT TO BOILER POWER. SUPPLIER TO SET UP & BURNER RATE	
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																	DE. BY: ASW DR. BY: ASW
																	STDS.
																	DATE NOVEMBE

LIGHT SWITCH SYMBOLS					
\$	LIGHT SWITCH				
\$ ₃	3-WAY SWITCH				
\$ _ĸ	KEYED SWITCH				
\$ _{RC}	ROOM CONTROLLER				
\$ _{os}	LIGHT SWITCH W/ INTEGRAL OCCUPANCY SENSOR				

LIGHT	LIGHT FIXTURE SYMBOLS					
	2' X4' RECESSED LIGHT FIXTURE					
	EMERGENCY FIXTURE BATTERY BACKUO					
	2' X 2' RECESSED LIGHT FIXTURE					
	2' X 4' SURFACE MOUNT FIXTURE					
	2' X 2' SURFACE MOUNT FIXTURE					
\odot	24" PENDANT MOUNT FIXTURE					
•	12" PENDANT MOUNT FIXTURE					
0	RECESSED DOWN LIGHT FIXTURE					
P	WALL MOUNT FIXTURE					
⊲	TRACK LIGHT FIXTURE					
• •	LINEAR PENDANT MOUNT FIXTURE					
8	EXIT SIGN					
4_4	EMERGENCY LIGHT FIXTURE					

ELECTI	RICAL SYMBOLS				
φ	SIMPLEX RECEPTACLE				
φ	DUPLEX RECEPTACLE				
\	QUAD RECEPTACLE				
₽ ^{GFI}	GROUND FAULT CIRCUIT INTERRUPTER				
₽ ^{ctr}	COUNTERTOP RECEPTACLE MTD. 6" ABOVE COUNTER				
₽ ^{IG}	ISOLATED GROUND RECEPTACLE				
Φ^{WP}	WEATHERPROOF RECEPTACLE				
Ф	PEDESTAL MTD. RECEPTACLE				
\square	FLOOR BOX DUPLEX RECEPTACLE				
	FLOOR BOX QUAD RECEPTACLE				
Ту	TV OUTLET, 2-GANG BACKBOX, 3/4" CONDUIT				
۹	HARDWIRED POWER CONNECTION				
J	JUNCTION BOX				
머	ELECTRICAL DISCONNECT				
Ъ	FUSED DISCONNECT				
\boxtimes_{I}	COMBINATION DISCONNECT STARTER				
\$_	MOTOR TOGGLE SWITCH				
	PUSHBUTTON CONTROLLER				
Ń	MOTOR				
	SURFACE MOUNT PANEL				
	RECESSED PANEL				

LIGHTIN	LIGHTING CONTROL SYMBOLS					
	LIGHTING CONTROL PANEL					
RC	ROOM CONTROLLER					
PP	POWER PACK/LIGHTING RELAY					
OS	OCCUPANCY SENSOR					
IR	DAYLIGHT SENSOR					

ABBREVIATIONS

	1			-			
А	AMPS	EP	EMERGENCY PANEL	LP	LIGHTING PANEL	PWR	POWER
AC	ABOVE COUNTER	EWC	ELECTRIC WATER COOLER	LT	LIGHT	RECP	RECEPTACLE
ACU-	AIR CONDITIONING UNIT	EX	EXISTING	LTG	LIGHTING	RGC	RIGID GALVANIZED STEEL CONDUIT
AFF	ABOVE FINISHED FLOOR	FLA	FULL LOAD AMPS	LT FLEX	LIQUID TIGHT FLEXIBLE METAL CONDUIT	RP	RECEPTACLE PANEL
AHJ	AUTHORITY HAVING JURISDICTION	FLEX	FLEXIBLE CONDUIT	MAX	MAXIMUM	RTU-	ROOF TOP UNIT
AIC	AMPS INTERRUPTING CAPACITY	FLR	FLOOR	MC	MECHANICAL CONTRACTOR	SPEC	SPECIFICATIONS
AS	ABOVE SHELF	FLOUR	FLOURESCENT	MCC	MOTOR CONTROL CENTER	SW	SWITCH
ATS	AUTOMATIC TRANSFER SWITCH	FSES	FOOD SERVICE EQUIP. SUPPLIER	MIN	MINIMUM	SWBD	SWITCHBOARD
В-	BOILER	F/S	FIRE/SMOKE	MLO	MAIN LUG ONLY	TCC	TEMPERATURE CONTROL CONTRACTOR
BC	BELOW COUNTER	FU-	FURNACE	MT	MOUNT	TR	TAMPER PROOF RECEPTACLE
BLDG	BUILDING	GC	GENERAL CONTRACTOR	MTD	MOUNTED	TS	TAMPER PROOF SWITCH
CND (C)	CONDUIT	GFI	GROUND FAULT INTERRUPTER	MTG	MOUNTING	TYP	TYPICAL
СКТ	CIRCUIT	GND	GROUND	MUA	MAKE UP AIR UNIT	UF	UNDER FLOOR
CKT BKR	CIRCUIT BREAKER	H-	HUMIDIFIER	NC	NORMALLY CLOSED	UH-	UNIT HEATER
CU-	CONDENSING UNIT	HID	HIGH INTENSITY DISCHARGE	NL	NIGHT LIGHT	UL	UNDERWRITERS' LABORATORIES, INC.
CUH-	CABINET UNIT HEATER	HOA	HAND-OFF-AUTO SELECTOR SWITCH	NO	NORMALLY OPEN	UNO	UNLESS NOTED OTHERWISE
DF-	DRINKING FOUNTAIN	HP	HORSEPOWER	NTS	NOT TO SCALE	V	VOLTS
DISC	DISCONNECT	HR	HOUR	Р	POLE	VL	VERIFY LOCATION W/ OWNER
DWG	DRAWING	HVAC	HEATING, VENTILATING, AIR CONDITIONING	P-	PUMP	W	WATTS
EC	ELECTRICAL CONTRACTOR	IG	ISOLATED GROUND	РВ	PULL BOX	W/	WITH
EF-	EXHAUST FAN	IMC	INTERMEDIATE METAL CONDUIT	PNL	PANEL	W/O	WITHOUT
EM	EMERGENCY	JB	JUNCTION BOX	PVC	POLY VINYL CLORIDE	WP	WEATHER PROOF
EMT	ELECTRICAL METALLIC TUBING	LC	LIGHT CONTROL	PP	POWER PANEL	XFMR	TRANSFORMER

TECHN	TECHNOLOGY/COMMUNICATIONS SYMBOLS				
▼	SINGLE DATA OUTLET, 1-GANG BACKBOX W/ 1" CONDUIT TO CEILING				
V	DOUBLE DATA OUTLET, 1-GANG BACKBOX W/ 1" CONDUIT TO CEILING				
₩	QUAD DATA OUTLET, 2-GANG BACKBOX W/ 1" CONDUIT TO CEILING				
FB	FLOOR BOX				
ĝ	CLOCK MOUNT @ 96" UNLESS OTHERWISE NOTED				

FIRE ALARM SYMBOLS

F	FIRE ALARM PULL BOX
S	SMOKE DETECTOR
Θ	HEAT DETECTOR
-¢-	FIRE ALARM STROBE
EQ	FIRE ALARM HORN AND STROBE
FACP	FIRE ALARM CONTROL PANEL
0	GAS DETECTOR
\$ <u></u>	DUCT DETECTOR

GENERAL ELECTRICAL NOTES

- INSTALLATION OF ALL WORK SHALL BE IN ACCORDANCE OF ALL APPLICABLE LOCAL CODES, ORDINANCES, AND THE EDITION OF THE NATIONAL ELECTRICAL CODE NFPA 70 (NEC) IN EFFECT.
- 2. PRIOR TO WORK BEGINNING, CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND/OR CLEARANCES FROM THE AUTHORITIES HAVING JURISDICTION. PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE AND OPERABLE SYSTEM.
- 3. FINAL LOCATIONS OF ELECTRICAL EQUIPMENT SHALL BE COORDINATED IN THE FIELD ACCORDING TO EQUIPMENT BEING SERVED.
- 4. ALL CONDUCTORS SHALL BE IDENTIFIED.
- 5. ALL EQUIPMENT SHALL BE UL LISTED.
- 6. ELECTRICAL SYSTEMS SHALL BE GROUNDED PER NEC 250.
- 7. PRIOR TO SUBMITTING BIDS, CONTRACTOR SHALL VISIT THE SITE AND INSPECT EXISTING EQUIPMENT AND AREA CONDITIONS THAT MAY AFFECT WORK TO BE PERFORMED. CONTRACTOR SHALL INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND INTENT OF DRAWINGS AND SPECIFICATIONS.
- 8. PROVIDE ALL WIRE NECESSARY FOR THE PROPER OPERATION OF THE SYSTEM.
- 9. ALL EXISTING AND NEW PANELS IMPACTED BY THE PROJECT SHALL BE PROVIDED WITH UPDATED TYPEWRITTEN PANELS SCHEDULES INDICATING ROOM NUMBER AND EQUIPMENT OR DEVICES SERVED BY THE CIRCUIT.
- 10. CONTRACTOR TO BALANCE LOADS ON AVAILABLE PHASES IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- 11. INSTALLATION OF EQUIPMENT, COMPONENTS AND WIRING FOR ELECTRICAL SYSTEMS SHALL BE IN ACCORDANCE OF MANUFACTURER'S RECOMMENDATIONS.
- 12. CONTRACTOR TO COORDINATE WORK WITH ALL OTHER TRADES.
- 13. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL, PLUMBING AND OTHER TRADES TO PROVIDE ALL EQUIPMENT ASSOCIATED WITH THEIR RESPECTIVE TRADES WITH NECESSARY WIRING AND CONDUIT INFRASTRUCTURE FOR ALL SENSORS, AND CONTROL SYSTEMS AS REQUIRED.

ELECTRICAL GENERAL DEMO NOTES

- 1. PRIOR TO SUBMITTING BID, ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO VERIFY/INSPECT THE EXTENT OF EXISTING CONDITIONS.
- 2. REMOVE ALL ASSOCIATED ELECTRICAL COMPONENTS, HANGERS, WIRING, CABLING, CONDUIT, BOXES, DEVICES AND ALL OTHER ITEMS RELATED TO EQUIPMENT AND MATERIALS WHICH ARE INDICATED TO BE REMOVED.
- 3. REMOVE ALL WIRING AND CONDUIT BACK TO THE SOURCE IN EXISTING CIRCUITS WHICH ARE BEING DEMOLISHED.
- UNLESS INDICATED, NO EQUIPMENT, MATERIALS OR ASSOCIATED COMPONENTS SHALL BE ABANDONED IN PLACE.
- 5. ALL CONDUITS WHICH ARE CONCEALED IN CONCRETE WALLS OR SLABS SHALL BE ABANDONED. ALL WIRING/ CABLING SHALL BE REMOVED FROM ABANDONED CONDUITS.
- 6. CONTRACTOR SHALL CLEAN THE PROJECT SITE AT THE END OF EACH WORKING DAY.
- 7. PROTECT FROM DAMAGE ALL EXISTING WORK TO REMAIN. ANY DAMAGED MATERIAL AND EQUIPMENT TO REMAIN SHALL BE REPLACED WITH MATERIALS AND EQUIPMENT CONFORMING TO SPECIFICATIONS.
- 8. WHERE EXISTING FLOORS, WALLS AND ROOFS MUST BE CUT OR ARE DAMAGED DURING REMOVAL OR RELOCATION OF ELECTRICAL WORK, PATCH THE FUT OR DAMAGED AREAS TO MATCH ADJACENT CONSTRUCTION.

WITH THE DOES NO	CONDITION	IS PREVALENT AT THE EE AND WILL NOT BE LI	TIME THE DES	SIGN WAS I	DONE. THE ENGIN	EER
	CEN	TRAL REST				NS
ELECTRICAL COVER SHEET						
SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com						
DE. BY DR. BY		CH. BY: APP. BY	DSB : DWM			ECT NO. SG2022
STDS.			SHEET	36	of 40	E
DATE SCALE		/IBER 2, 2022 SHOWN	FILE NO	143´	1 -36	0.1

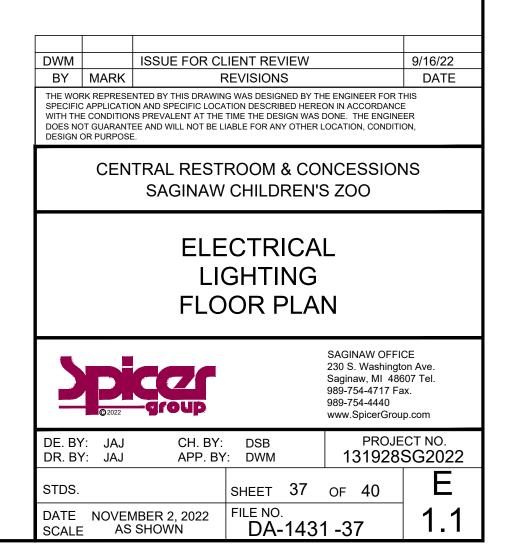


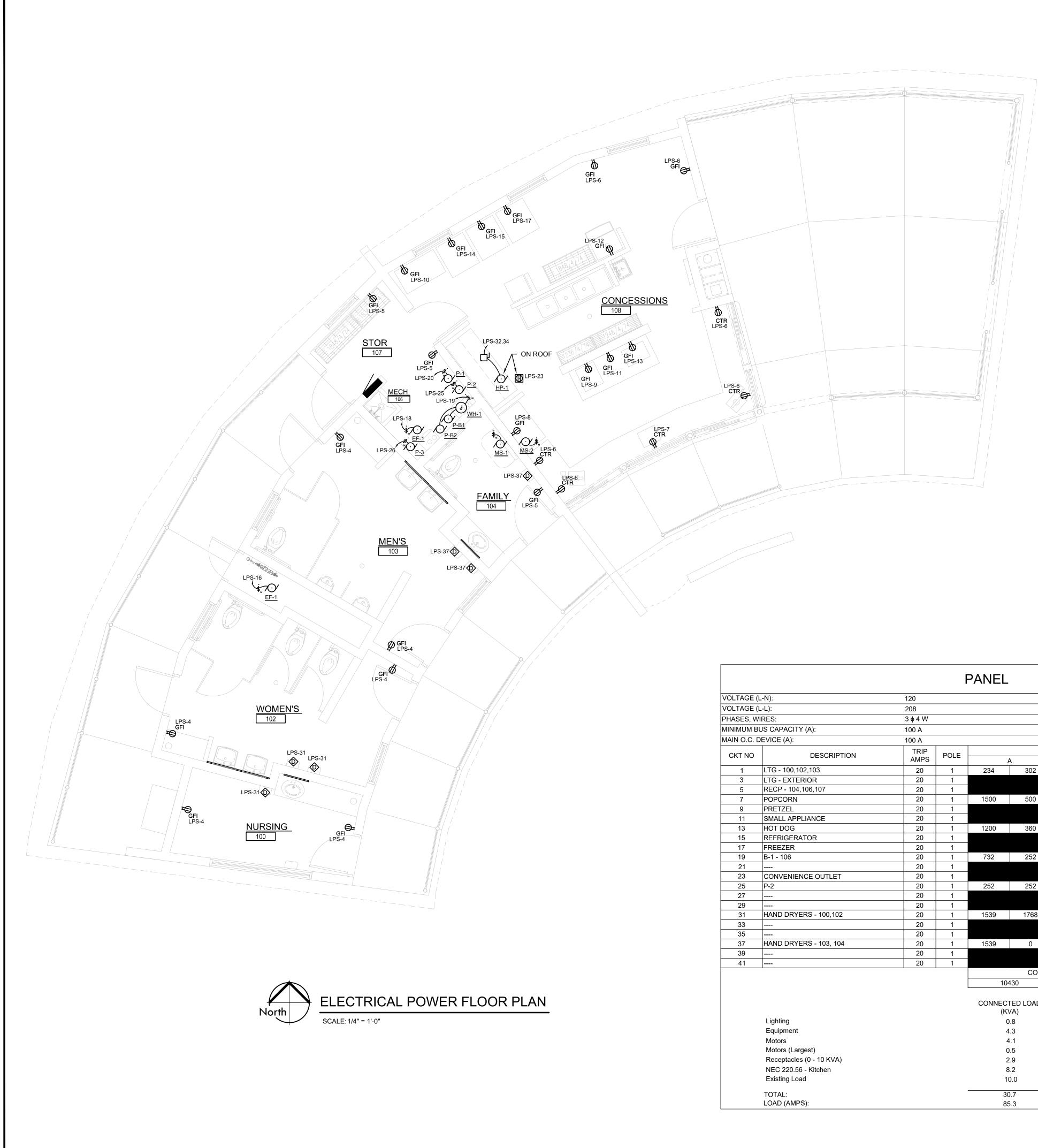
					ELECTRICAL LIGH	TING DEVICE SCHEDULE	
		ELECTRICAL DATA		BASIS OF DES			
TAG	DESCRIPTION	VOLTAGE	QTY	WATTAGE	COLOR TEMPERATURE	MANUFACTURER	N
A1	4' LED STRIP LIGHT	120/1/60	1	31.8	4000K	COOPER LIGHTING	
B1	4' LINEAR WALL MOUNT LED	120/1/60	1	29.6	3000 - 5000K	COOPER LIGHTING	SQW F 075
B2	4' LED STRIP LIGHT	120/1/60	1	31.8	3000 - 5000K	COOPER LIGHTING	SQ4 F 075U 050
C1	RGBW FLOODLIGHT	120/1/60	1	24.0	RGBW	WE-EF LIGHTING	139-20
D1	SURFACE/PENDANT DECROTIVE LED	120/1/60	1	0.0	-	BY OWNER	
F1	RGBW LED TAPE	120/1/60	1	72.2	RGBW	OMNILIGHT	н
X1	LED EXIT SIGN	120/1/60	2	4	6200K	COOPER LIGHTING	

GENERAL LIGHTING NOTES:

- ALL LIGHTING SHALL MEET ASHRAE 90.1 2013.
 INSTALL LED RIBBON/TAPE IN ACCORDANCE WITH MANUFACTURES INSTALLATION RECOMMENDATIONS. TAPE SHALL BE INSTALLED WITHIN CHANNEL TYPE MOUNTING
- SYSTEM RATED FOR OUTDOOR USE.
 ALL RGBW LIGHT FIXTURES TO BE CONTROLLED BY PHOTOCELL AS WELL DMC CONTROLLER LOCATED IN KITCHEN. FINAL LOCATION OF CONTROLLER SHALL BE
- COORDINATED WITH OWNER. 4. LIGHT FIXTURE D1 TO BE PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR.

DESIGN	
MODEL OR SERIES	NOTES
4NWS3C3-UNV	B= BATTERY BACKUP
075U 025D 93050 1 D UNV STD	
050D 93050 1 D UNV STD AV48 UM	
9-2035 683-9329 SMC-200	SURFACE MOUNT
BY OWNER	
HUEWL-RGB-HO-16	OCH-DCS CHANNEL COORDINATE W/ OWNER
LPXC 25 R3 SRP	



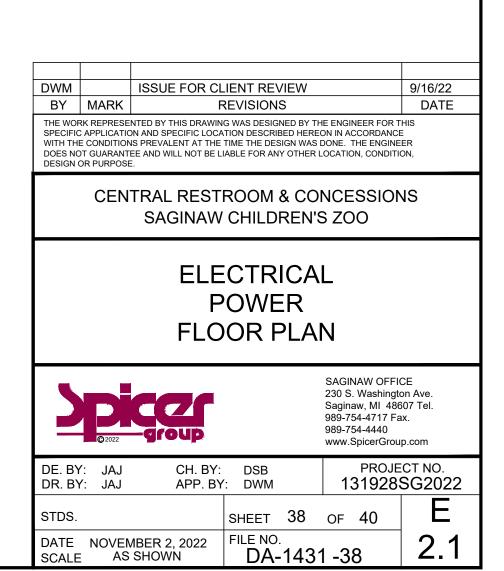


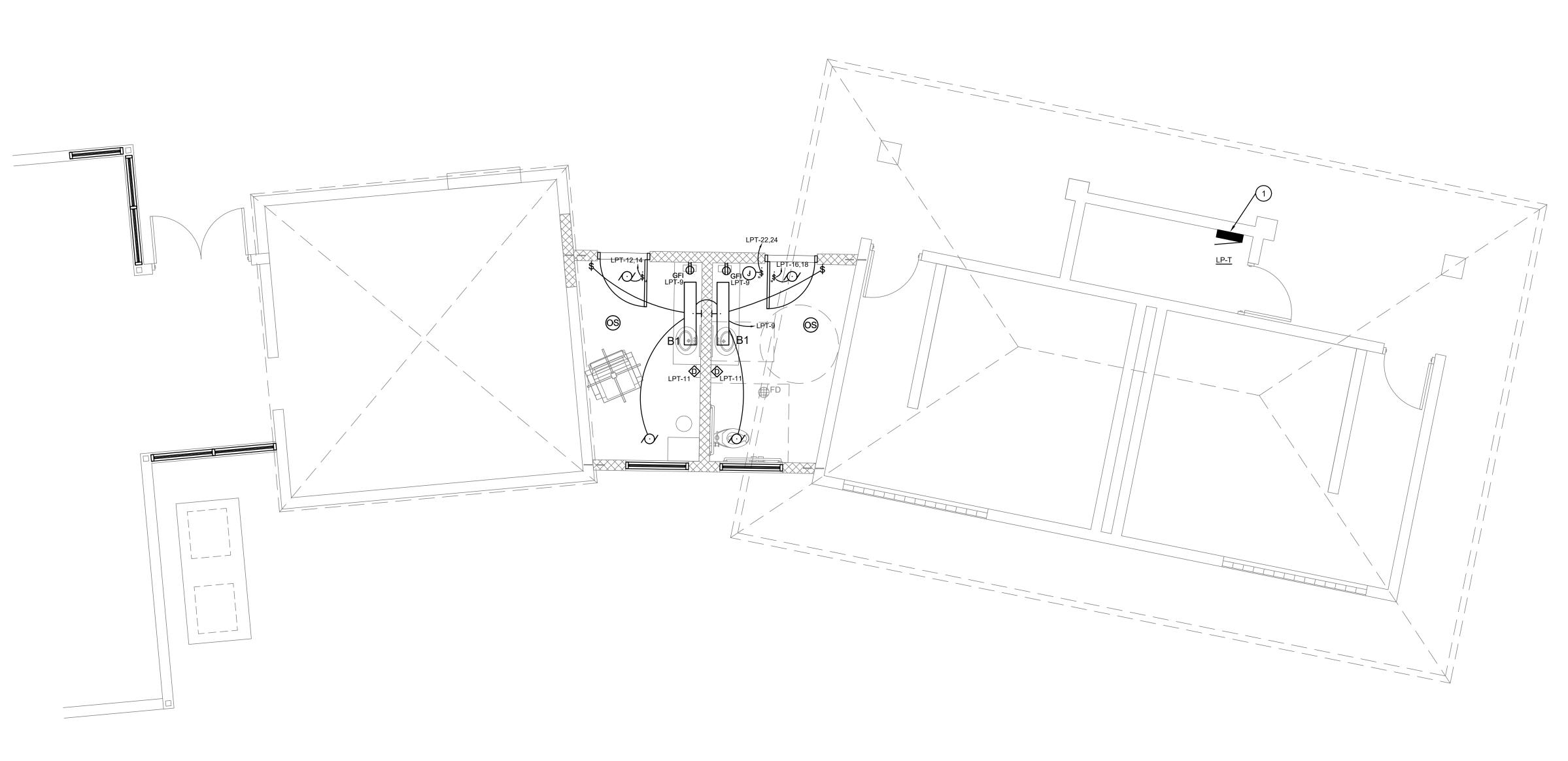
			F	PANEL		L	PS			
VOLTAGE ((L-N):	120					ENCLOSUR	E TYPE:		
VOLTAGE ((L-L):	208					MOUNTING	:		
PHASES, W	VIRES:	3					AIC RATING (A):			
	BUS CAPACITY (A):	100 A					NOTES:			
	DEVICE (A):	100 A					-			
		TRIP				PHASE L	 .OADS (VA)			
CKT NO	DESCRIPTION	AMPS	POLE		۹	В		С		
1	LTG - 100,102,103	20	1	234	302		_			
3	LTG - EXTERIOR	20	1			360	1080			
5	RECP - 104,106,107	20	1					540	1080	
7	POPCORN	20	1	1500	500					
9	PRETZEL	20	1			1500	500			
11	SMALL APPLIANCE	20	1					1500	700	
13	HOT DOG	20	1	1200	360					
15	REFRIGERATOR	20	1			360	120			
17	FREEZER	20	1					820	120	
19	B-1 - 106	20	1	732	252					
21		20	1			0	0			
23	CONVENIENCE OUTLET	20	1					180	0	
25	P-2	20	1	252	252				1	
27		20	1			0	0			
29		20	1					0	0	
31	HAND DRYERS - 100,102	20	1	1539	1768				1	
33		20	1		ł	0	1768			
35		20	1					0	0	
37	HAND DRYERS - 103, 104	20	1	1539	0					
39		20	1			0	4992			
41		20	1					0	4992	
					CONNE	ECTED LOAD	PHASE TOTALS (VA)			
				104	430	10	0680	9932		
				CONNECTED LOAD (KVA)		DEMAND FACTOR		DEMAND LOAD (KV		
	Lighting				0.8	1	.25	0.9		
	Equipment			4.3		1.00		4.3		
	Motors				l.1	1.00		4.1		
	Motors (Largest)				0.5	1.25		0.6		
	Receptacles (0 - 10 KVA)				2.9	1.00		2.9		
	NEC 220.56 - Kitchen				9.2).65	5.3		
	Existing Load			1	0.0	1	.25	1	2.5	
).7	-			0.7	
	LOAD (AMPS):			85	5.3			8	5.1	

GENERAL ELECTRICAL NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND THE AHJ.
 COORDINATE WORK WITH ALL OTHER TRADES.
- CONTRACTOR TO FIELD VERIFY ALL EXISTING LOADS THAT SHALL BE REQUIRED TO BE REFED FROM NEW PANEL.
 PROVIDE JUNCTION BOX AND UNDERGROUND SPLICE FROM EXISTING PANELS LOCATION TO NEW PANEL LOCATION
- SHOWN ON THIS SHEET. SEE ELECTRICAL ONELINE ON SHEET E3.1 AND ARCHITECTURAL SITE PLAN ON SHEET A0.0.5. MS-1 & MS-2 POWERED FROM OUTDOOR UNIT. PROVIDE ALL NECESSARY AND CONDUIT AND WIRE FROM OUTDOOR
- UNIT TO INDOOR UNITS. INCLUDE DISCONNECT SWITCH AT MS-1 & MS-2

NEMA 1				
SURFACE				
)				
POLE	TRIIP AMPS	DESCRIF	PTION	CKT NO
1	20	LTG - 104,106,108		2
1	20	RECP - 100,102,103		4
1	20	POINT OF SALE		6
1	20	COOLER		8
1	20	COOLER		10
1	20	ICE MACHINE		12
1	20	REFRIGERATOR		14
1	20	EXHAUST FAN		16
1	20	EXHASUT FAN		18
1	20	P-1		20
1	20			22
1	20			24
1	20	P-3		26
1	20			28
1	20			30
2	20	HP-1		32,34
2	20	HP-1		32,34
1	20			36
1	20			38
2	60	DEPOT		40,42
2	60	DEPOT		40,42
2	00	DEPOT		40,42
		DEMAND LOAD SPARE CAPACITY SPARE CAPACITY SPARE CAPACITY PHASE BALANCE A TO B B TO C C TO A	30.7 KVA 5.4 KVA 14.9 AMPS 15 % 98 % 93 % 95 %	





			F	PANEL		L	PT							
VOLTAGE (L-N):		120	120 ENCLOSURE T							NEMA 1				
VOLTAGE (L-L):		208					MOUNTING:		SURFACE					
PHASES, WIRES:		3				AIC RATING	(A):		0					
/INIMUM B	US CAPACITY (A):	100 A					NOTES:							
AIN O.C. E	DEVICE (A):	100 A												
CKT NO	DESCRIPTION	TRIP AMPS	POLE		A	1	OADS (VA) B	С		POLE	TRIIP AMPS			CKT N
1	EHD-1	25	1	2300	2300		D			1	25	EHD-1		2
3	EHD-1	25	1	2000	2000	2300	2300			1	25	EHD-1		4
5	LTG/EF/RECP	20	1					1200	1200	1	20	LTG/EF/RECP		6
7	EXTERIOR LTG/JC	20	1	900	2000					2	30	EX. WATER HEATER		8,10
9	NEW LTG/EF/RECP	20	1			420	2000			2	30	EX. WATER HEATER		8,10
11	NEW HAND DRYERS	20	1					1026	863	2	20	EH-1		12,14
13	SPARE	20	1	0	863					2	20	EH-1		12,14
15	SPARE	20	1			0	863			2	20	EH-1		16,18
17	SPARE	20	1					0	863	2	20	EH-1		16,18
19		20	1	0	0					1	20			20
21		20	1			0	2000			2	20	EWH-1		22,24
23		20	1					0	2000	2	20	EWH-1		22,24
							PHASE TOTA	· · · ·						
				83	363	9883		7152						
				CONNECTED LOAD								DEMAND LOAD	25.5 KVA	
	Lighting			(KVA)		DEMAND FACTOR		DEMAND LOAD (KVA)				SPARE CAPACITY	10.5 KVA	
	Lighting Equipment).1 4 0	1.25		0.1				SPARE CAPACITY	29.1 AMPS	
				24.0		1.00		24.0				SPARE CAPACITY	29 %	
	Motors Motors (Largest)			0.5 0.5		1.00 1.25		0.5				PHASE BALANCE A TO B	85 %	
	Receptacles (0 - 10 KVA)			0.4		1.25		0.6 0.4					85 % 72 %	
				().4	I	.00		J.4			В ТО С С ТО А	86 %	
	TOTAL:			25.4		_		25.5		_				
	LOAD (AMPS):			70	0.5			7	0.9					



GENERAL ELECTRICAL NOTES:

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND THE AHJ.
- 2. COORDINATE WORK WITH ALL OTHER TRADES. 3. LIGHTING SHALL MEET ASHRAE 90.1 2013.

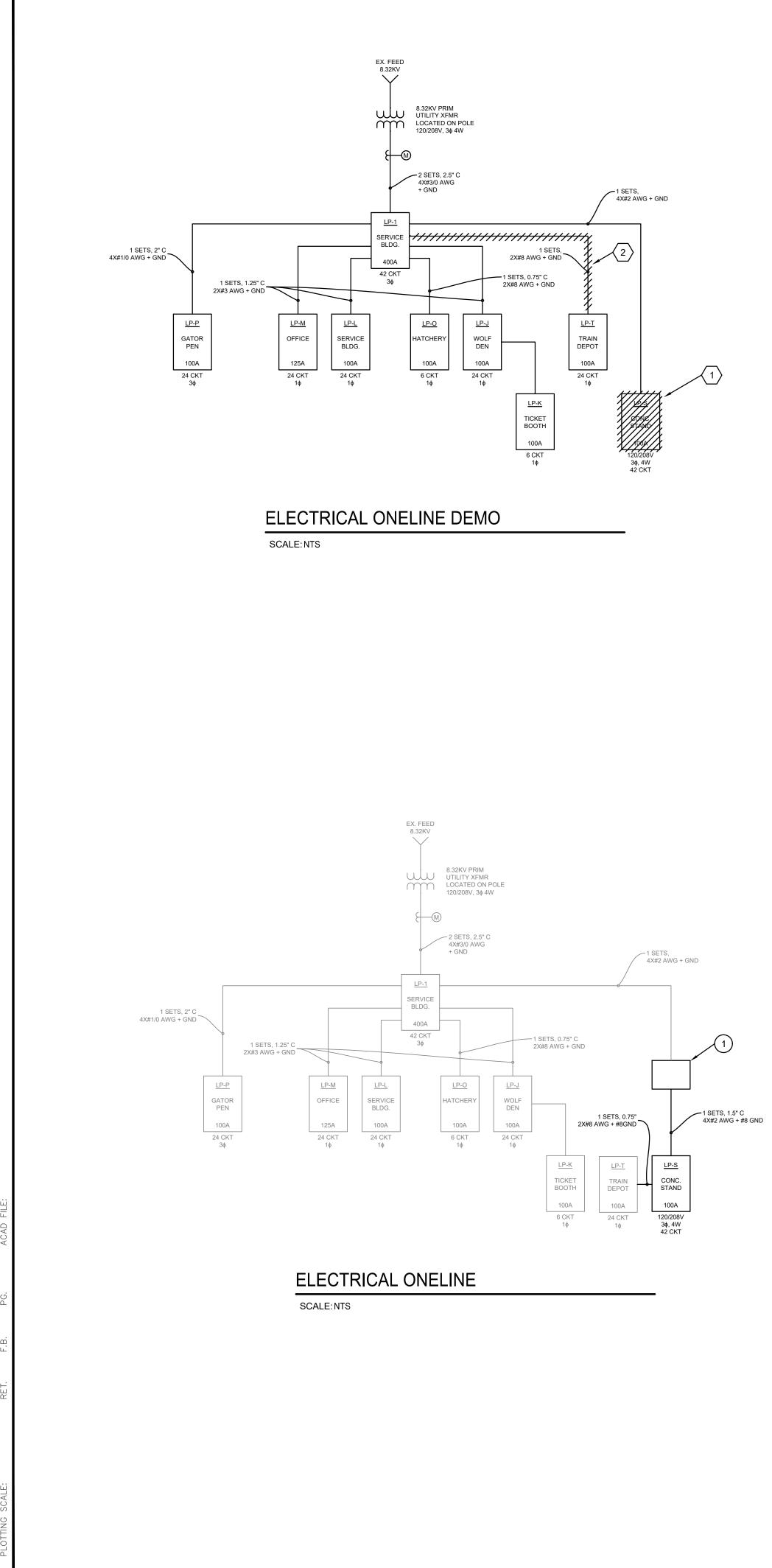
ELECTRICAL KEYED NOTES

DEMO EXISTING PANEL LP-T. INSTALL NEW 24 SPACE 100A MCB QO LOAD CENTER. REUSE EXISTING FEEDERS.

DWM ISSUE FOR CLIENT REVIEW 9/16/22 BY | MARK | REVISIONS DATE THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE. CENTRAL RESTROOM & CONCESSIONS SAGINAW CHILDREN'S ZOO NORTH RESTROOM ADDITION ELECTRICAL POWER FLOOR PLAN SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com DE. BY: JAJ DR. BY: JAJ CH. BY: DSB APP. BY: DWM PROJECT NO. 131928SG2022 Ε SHEET 39 OF 40 STDS.

2.1

ADD ALTERNATE #1 DATE NOVEMBER 2, 2022 SCALE AS SHOWN FILE NO. DA-1431-39



ELECTRICAL DEMO KEYED NOTES



DEMO EXISTING PANEL LP-S. PREPARE EXISTING FEEDERS TO INSTALLED IN UNDERGROUND JUNCTION BOXED AND UNDERGROUND SPLICE TO NEW BUILDING LOCATION. SEE SHEET A0.0 FOR SITE PLAN.

DISCONNECT EXISTING OVERHEAD FEEDERS FROM EXISTING CIRCUIT BREAKER IN SERVICE BUILDING AND TRAIN DEPOT. PREPARE PANEL LP-T TO BE REFED FROM NEW PANEL LP-S.

ELECTRICAL KEYED NOTES

- UNDERGROUND JUNCTION BOX. SEE SHEET A0.0 FOR LOCATION. SPLICE EXISTING WIRES TO PROPOSED FEEDERS FOR NEW PANEL LP-S. JUNCTION BOX BASIS OF DESIGN QUAZITE PG STYLE 11X18X18 TIER 8. (1)

