GLADWIN TRANSPORTATION MAINTENANCE BUILDING ADDITION



City of Gladwin, Gladwin County, MI



ARCHITECTURAL & STRUCTURAL: SIDOCK GROUP, INC. 757 S. WISCONSIN AVE., GAYLORD MI 49735, (989) 734-8400

MECHANICAL, PLUMBING, ELECTRICAL ENGINEER: NEALIS ENGINEERING 1419 INDUSTRY DR., TRAVERSE CITY MI 49696, (231) 933-0510

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www.sidockgroup.com

Key Plan:

Proiect:

No Scale

Client: GLADWIN CITY COUNTY TRANSIT

PROJECT LOCATION

	P	GLADWIN				
	SITE DATA SITE AREA:				MAINTENAN	CE
	EXISTING:	1.66 AC			BLDG. ADDI	IION
	ZONING: EXISTING=	MT (MANUFA	CTURER TE	CHNOLOGY)		
	USE:					
	PARKING:	EXIST NO C	HANGE OF U	JSE. NO INCREASE IN PARKING PROPOSED	621 WEAVER CT	
	BUILDING DAT		GLADWIN, MI			
	BUILDING AREA: EXISTING 8.000 S.F.	, ,			Seal	
	ADDITION 2,627 S.F. TOTAL= 10,627 S.F.					*****
					A S TIMOT	MICAI G HYJ
		CODL	_ 11 NI		★ MILL	ER 🖈
	BUILDING CODE:	2015 MICHIG	AN REHABI	ITATION CODE FOR EXISTING BUILDINGS	License	e No.
	HEIGHT/AREA MODIFICATIONS:	MATCH EXIS	T. HEIGHT /	2,627 S.F.ADDITION		1719 <
				NDE - 2021	VSED A	RCH M
	MECHANICAL CODE:	MICHIGAN M		CODE - 2021	- melter f	- Millin
	ELECTRICAL CODE:	MICHIGAN E	LECTRICAL	CODE - 2023, INCORPORATING THE		
		2023 NEC W		PART 8 RULES	Data	loound For
	ENERGY CODE:	ASHRAE ST	ANDARD 90.	1-2013 W/ 2015 MICHIGAN UNIFORM	4/28/25	BIDS/PERMITS
ENERGY C(DE PART 10			
		VB (NOT SPI	RINKLERED,	EXISTING)		
		MIXED OCC. EXIST. = S-1	, SEPARATE , ADD. = S-2	D		
	SHE		DEX			
			STRU	CTURAL		
EET			S-000	STRUCTURAL SPECIFICATIONS		
IT OF SPECIA	SAFETY AL INSPECTIONS, ABB., DRAWIN	IG LEGEND	S-001 S-101	FOUNDATION PLAN		
			S-102	STRUCTURAL DETAILS	Drawn:	AH
						TM
			PLUM			
D	DEMOLITION		P-100	PLUMBING DEMOLITION FLOOR PLAN PLUMBING FLOOR PLAN		
			P-200	PLUMBING DETAILS	Sheet Title:	
			MECH	ANICAL	COVER SH	IEEI
			MD-100 M-100	MECHANICAL DEMOLITION FLOOR PLAN MECHANICAL FLOOR PLAN		
<u>ON FLOOR PL</u> AN / CLERES	_AN TORY PLAN		M-300	MECHANICAL SCHEDULES		
N ELEVATIONS	3					
SECTIONS	, 		FLEC	RICAL		
AND DETAILS	S E DOOR SCHEDULE & DETAIL:	S	F-101			
ES		0	E-102	ELECTRICAL DEMOLITION PLAN		504550
D CEILING PL	LAN		E-103 E-104	POWER AND SYSTEMS PLAN	Project Number:	521558
			E-105	LIGHTING PHOTOMETRICS AND POWER DENSITY		• • • • •
			E-100	FANLE SUREDULES	Sheet Number	5-000
					THIS MATERIAL IS THE EXCLUSIVE PROPE	RTY OF SIDOCK GROUP, INC. AND
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(B.9) (C) В 4.9 EXIT (4 —(4) WASH BAY/ VEHICLESTORAGE 100 63'-0" EXIT. ACC. TRAVEL DIST. 68'-0" EXIT. ACC. —(3) TRAVEL DIST. **S**EXIT ADDITION

FIRE RESISTANCE RATING REQUIREMENTS

MBC/NFPA CONSTRUCTION TYPE - IIB	
BUILDING ELEMENT	FIRE RATINGS (MBC TABLE 601/602)
PRIMARY STRUCTURAL FRAME	0 HOUR
BEARING WALLS:	
EXTERIOR	0 HOUR
INTERIOR	0 HOUR
NON-BEARING WALLS AND PARTITIONS:	
EXTERIOR	X < 5 (1 HOUR), 5 <u><</u> X < 10 (1 HOUR), 10 <u><</u> X < 30 (0 HOUR), X <u>≥</u> 30 (0 HOUR)
INTERIOR	0 HOUR
FLOOR CONSTRUCTION AND SECONDARY MEMBERS	0 HOUR
ROOF CONSTRUCTION AND SECONDARY MEMBERS	0 HOUR
WALL REQUIREMENTS	FIRE RATING REQUIREMENTS
FURNACE ROOM W/ ANY PIECE OF EQUIP. OVER 400,000 BTU/HR INPUT	ONE HOUR* (MBC TABLE 509)
ROOMS W/ BOILERS WHERE LARGEST PIECE OF EQUIP. IS OVER 15 PSI AND 10 HP	ONE HOUR* (MBC TABLE 509)
CORRIDOR WALLS (FIRE PARTITION)	0 HOUR* (PER MBC TABLE 1020.1) W/ < 30 OCC.
CORRIDOR WALLS (FIRE PARTITION)	ONE HOUR* (PER MBC TABLE 1020.1) W/ > 30 OCC.
FIRE BARRIERS (OTHER)	(PER MBC SEC. 707.3)
INCIDENTAL USES	ONE HOUR* (PER MBC TABLE 509)
OCCUPANCY SEPARATION	TWO HR. (NON-SPRINKLED)
* ZERO HOUR WHEN AUTOMATIC SPRINKLER	SYSTEM IS PROVIDED WHEN PERMITTED PER CODE.

DEFERRED DOCUMENTS STATEMENT				
PLAN REVIEW ITEM NO. AND/OR SPECIFICATION SECTION NO.	DESCRIPTION OF DEFERRED ITEMS THAT SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CONTRACTOR TO THE JURISDICTION HAVING AUTHORITY.			
DIVISION 07 83 00-	FIRESTOPPING SYSTEMS (JOINTS AND PENETRATIONS) SHOP DRAWINGS			
DIVISION 13 34 00-	PREENGINEERED METAL BUILDING SYSTEM SHOP DRAWINGS			
DIVISION 26 00 00-	FIRE ALARM SYSTEM SHOP DRAWINGS			

	EGRESS WIDTH CALCULATIONS								
	MARK	DOOR DESCRIPTION	DOOR DESCRIPTION	CLEAR OPENING	/ OCC. FACTOR	= OCC. CAPACITY	PROPOSED OCC.		
		3'-0" x 7'-0" SWING DR.	EXISTING RESTRICTED/SECURED / ACCESSIBLE	33" (CLEAR MIN.)	0.2	165	>62/ 2 EXITS MIN.= 31 (PER REQ. EXIT)		
	2	3'-0" x 7'-0" SWING DR.	EXISTING RESTRICTED/SECURED / NONACCESSIBLE	33" (CLEAR MIN.)	0.2	165	>62/ 2 EXITS MIN.= 31 (PER REQ. EXIT)		
Ч	3	3'-0" x 7'-0" SWING DR.	EXISTING RESTRICTED/SECURED / ACCESSIBLE	33" (CLEAR MIN.)	0.2	165	>62/ 2 EXITS MIN.= 31 (PER REQ. EXIT)		
	4	3'-0" x 7'-0" SWING DR.	NEW RESTRICTED/SECURED / ACCESSIBLE	33" (CLEAR MIN.)	0.2	165	>13/ 2 EXITS MIN.= 7 (PER REQ. EXIT)		
STI	5	3'-0" x 7'-0" SWING DR.	NEW RESTRICTED/SECURED / ACCESSIBLE	33" (CLEAR MIN.)	0.2	165	>13/ 2 EXITS MIN.= 13 (PER REQ. EXIT)		
FIR	TOTAL EGRESS WIDTH = 165" / 0.2 = 825 MAX. OCCUPANTS > 62 PROPOSED OCC. (OK)								
	OTHER: 32" MIN. @ DOORS 44" MIN. CORRIDOR								

SCALE: 3/32"=1'-0"

JURISDICTION:	MICHIGAN DEPARTMENT OF TRANSPORTATION
	GLADWIN COUNTY
BUILDING CODE:	MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS INCORPORATING MICHIGAN BUILDING CODE - 2015 AND NFPA 101- 2012 (AS APPLICABLE), ADDITION
MBC CONSTRUCTION TYPE: OCC. GROUP:	IIB MIXED OCCUPANCY SEPARATED (B)(S-1, S-2)
RISK CATEGORY:	II
PLUMBING CODE:	MICHIGAN PLUMBING CODE - 2021
MECHANICAL CODE:	MICHIGAN MECHANICAL CODE - 2021
ELECTRICAL CODE:	MICHIGAN ELECTRICAL CODE - 2023, INCORPORATING THE 2023 NEC W/ MICHIGAN PART 8 RULES
FIRE CODE:	INTERNATIONAL FIRE CODE- 2021
ENERGY CODE:	ASHRAE STANDARD 90.1-2019 W/ 2021 MICHIGAN ENERGY CODE (COMMERCIAL) W/ PART 10A AMENDMENTS
FIRE SUPPRESSION:	N/A
FIRE ALARM:	NFPA 72-2019
FIRE EXTINGUISHERS:	NFPA 10-2019
ACCESSIBILITY:	N/A PER MBC. SEC. 1103.2.2
SPACES WITH ONE EXIT: (MBC MAX. <u>OCC. LOAD</u> S-2 OCC	TABLE 1006.2.1) MAX. EXIT ACCESS TRAVEL DIST.
=29 MAX.<br =29 MAX.</td <td>100 FT. (<!--= 30 OCC., NOT SPRINKLERED)<br-->75 FT. (> 30 OCC., NOT SPRINKLERED)</td>	100 FT. (= 30 OCC., NOT SPRINKLERED)<br 75 FT. (> 30 OCC., NOT SPRINKLERED)
NUMBER OF EXITS (STORY): (N	/IBC TABLE 1006.3.1) 2 PER STORY 1-500 OCC.
STORIES WITH ONE EXIT/EXIT MAX. OCC. LOAD MAX. CO S-2 OCC. 29 MAX	ACCESS: (MBC. TABLE 1006.3.2(2) OMM. PATH EGRESS/EXIT ACCESS TRAVEL DIST. (WHEN SINGLE EXIT) . 75 FT. (NOT SPRINKLERED)
MAX. EXIT ACCESS TRAVEL DIS	ST.: (MBC TABLE 1017.2) S-2 OCC. (NOT SPRINKLERED)= 300 FT.
CORRIDOR WIDTH:	(MBC SECTION 1020.2, MBC TABLE 1020.2) OCC. LOAD < 50= 36 INCHES ALL OTHER= 44 INCHES
DEAD END CORRIDOR:	(MBC SECTION 1020.4) 20 FT. (NOT SPRINKLERED)
REQUIRED EXIT WIDTH (STAIR	S / OTHER): (MBC SECTION 1011 OR PER MIN. PER 1005.3.1 AND1009) STAIRS= N/A OTHER= 0.2 INCH/OCC. (NOT SPRINKLERED, REFER TO OCC. LOAD CALCULATIONS)
FIRE AREA SEPARATION	MBC SECTION 903.2.10.1.5 5,000 S.F. (NON-SPRINKLED) FOR COMMERCIAL PARKING GARAGE

	DESIGN OCCUPANT LOAD CALCULATIONS							
FLR.	ROOM NO.	ROOM NAME	ACTUAL FLOOR AREA (gross, u.n.o.)	FLOOR AREA PER OCC. (gross, U.N.O.)	OCC. LOAD			
	100	WASH BAY	2,453 S.F.	200 S.F.	13			
	101	MAINTENANCE GARAGE	5964 S.F.	200 S.F.	30			
	102	OFFICE	216 S.F.	100 S.F.	3			
	103	TOILET	35 S.F.	50 S.F.	1			
Я	104	CORRIDOR	53 S.F.	100 S.F.	1			
ŏ	105	TOILET	35 S.F.	50 S.F.	1			
	106	BREAK ROOM	82 S.F.	15 S.F.	6			
SS	107	REPAIR ROOM	254 S.F.	100 S.F.	3			
Ē	108	MECHANICAL	63 S.F.	300 S.F.	1			
	109	STORAGE	215 S.F.	300 S.F.	1			
	110	MAINTENANCE GARAGE	254 S.F.	200 S.F.	2			
		•	SUBTC	TAL OCCUPANTS =	62			
E	EGRESS WIDTH PER OCCUPANT SERVED (PER MBC TABLE 1005.1)							

05.1) STAIRWAYS: N/A OTHER EGRESS COMPONENTS: 0.2 INCHES PER OCCUPANT (NOT SUPPRESSED)

DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE
SIDOCK GROUP , INC. TIMOTHY J. MILLER, AIA, NCARB STATE OF MICHIGAN LICENSE NUMBER #1301071719/ EXP. 10/1/2025
THESE CONSTRUCTION DOCUMENTS WERE PREPARED FOR

COMPLIANCE WITH THE MICHIGAN CONSTRUCTION CODES AND GUIDELINES IN EFFECT AT THE TIME OF PERMIT SUBMITTAL. ALL ENGINEERS, CONTRACTORS AND SUPPLIERS INVOLVED WITH THIS PROJECT SHALL COMPLY WITH THE SAME CODES, ISSUED AND APPROVED CODE MODIFICATIONS AND/OR LOCAL JURISDICTION CONSTRUCTION BOARDS OF APPEALS RULINGS AND, WHENEVER REQUIRED, SHALL PROVIDE SHOP DRAWINGS AND SUBMITTALS CLEARLY DESCRIBING COMPLIANCE TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FOR REVIEW AND APPROVAL.



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Key Plan:

Client:

No Scale

COUNTY TRANSIT

GLADWIN CITY

Project: GLADWIN TRANSPORTATION MAINTENANCE BLDG. ADDITION

621 WEAVER CT

GLADWIN, MI





Date Issued For **BIDS/PERMITS** 4/28/25

AIV
TM
TM

Sheet Title: CODE ANALYSIS / LIFE SAFETY

Project Number: 521558

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	ARCHITECTURAL DRAWING ABBREVIATIONS						
ABV.	ABOVE	DPR.	DAMPER	HORIZ.	HORIZONTAL	R	RADIUS OR RISER
A.F.F	ABOVE FINISHED FLOOR	DP.	DAMP PROOFING	H.B.	HOSE BIB	RL.	RAIL (ING)
A.S.C	. ABOVE SUSPENDED CEILING	D.L.	DEAD LOAD	HY.	HYDRANT	R.R.	RAIL ROAD
ACC.	ACCESS	DEMO	DEMOLITION OR DEMOLISH	IN.	INCH / INCHES	REC.	RECESS
ACFL	ACCESS FLOOR	DMT.	DEMOUNTABLE	INCL.	INCLUDE	RFL.	REFLECT (ED), (IVE), (OR)
A.P.	ACCESS PANEL	DEP.	DEPRESSED	INFO.	INFORMATION	REFR.	REFRIGERATOR
ACPL	ACOUSTICAL PLASTER	DET.	DETAIL	INL.	INLET	REG.	REGISTER
A.C.T./AT		DIAG.	DIAGONAL	ID.	INSIDE DIAMETER	REINF.	REINFORCE (D), (ING)
AT (SF	 ACOUSTICAL CEILING (W/ SPRAYED PLASTIC FINISH) ACOUSTICAL CEILING (W/ TEGULAR EDGE) ACOUSTICAL CEILING (W/ SPRAYED PLASTIC 	DIA.	DIAMETER	INSUL.	INSULATED	RCP.	REINFORCED CONCRETE
AT (TO		DIM.	DIMENSION (S)	IHM.	INSULATED HOLLOW METAL	REM.	REMOVE (ABLE)
	ACRYLIC PLASTIC I. ADDITION	DSP. DIV.		IRD.	INSULATED OVERHEAD DOOR INSULATED ROLLING DOOR	RAF RB. DSE	RESILIENT ATALETIC FLOORING RESILIENT BASE (RUBBER, VINY RESILIENT SHEET ELOOPING
ADDN AF ADH	ACCESS FLOORING ADHESIVE	D.O. D.I	DOOR OPENING DOOR JAMB	ILK. INTM	INTERLOCK	RF	RAISED RUBBER FLOORING RETURN
ADJ.	ADJACENT	DBL.	DOUBLE	INV.	INVERT	RA.	RETURN AIR
	ADJUSTABLE	DBLA.	DOUBLE ACTION	I.E.	INVERT ELEVATION	RVS.	REVERSE (SIDE)
AGG.	AGGREGATE	DBLH.	DOUBLE HUNG	IPS.	IRON PIPE SIZE	REF.	REFERENCE
ADO	AUTOMATIC DOOR OPERATOR	DTA.	DOVETAIL ANCHOR	JAN.	JANITOR	REQ'D.	REQUIRED
A/C	AIR CONDITIONING	DTS.	DOVETAIL ANCHOR SET	JC.	JANITOR CLOSET	REV.	REVISION (S), REVISED
A.C.U	. AIR CONDITIONING UNIT	DWL.	DOWEL (S)	JT.	JOINT	R.H.	RIGHT HAND
A.H.U	. AIR HANDLING UNIT	DN.	DOWN	JF.	JOINT FILLER	R.O.W.	RIGHT OF WAY
ALT.	ALTERNATE	DS.	DOWNSPOUT	JST.	JOIST	RVT.	RIVET
AL. A.B.	ALUMINUM ANCHOR BOLT	D. DRB.	DRAIN DRAIN BOARD	J.B.		RC. RD.	ROOF CONDUCTOR ROOF DRAIN OR
ANC. ANOD	ANCHOR, ANCHORAGE ANODIZED	DWR. DWG.	DRAWER DRAWING DRINKING FOUNTAIN	KCP. KP.	KEENE'S CEMENT PLASTER KICKPLATE	RFH.	ROOF HATCH
APT. APPRC	AFARIMENT DXAPPROXIMATE APPROXIMATELY	D.F. D.W. E	DUMB WAITER	KS.	KITCHEN SINK KNOCKOUT	RFG. RM. R O	ROOFING ROOM ROUGH OPENING
ARCH A.D.	ARCHITECT (URAL) AREA DRAIN	EA. E.F.	EACH EACH FACE	L	LENGTH	S	SOUTH
ASB.	ASBESTOS	EFTR	EXISTING FINISH TO REMAIN	LB.	POUND	SFGL.	SAFETY GLASS
ASPH	. ASPHALT	E.W.	EACH WAY	LBS.	POUNDS	SAN. FM.	SANITARY FORCE MAIN
A.T.	ASPHALT TILE	ELEC.	ELECTRIC (AL)	LBL.	LABEL	SND.	SANITARY NAPKIN DISPENSER
@	AT	EMCH	ELECTRO-MECHANICAL CLOSER-HOLDER	LAV.	LAVATORY	SNR.	SANITARY NAPKIN RECEPTACLE
A.C.M	ASBESTOS CONTAINING MATERIAL	E.P.	ELECTRICAL PANEL	LAD.	LADDER	SCH.	SCHEDULE (D)
AUTC		EWC.	ELECTRIC WATER COOLER	L.B.	LAG BOLTS	SCN.	SCREEN
AWF	ACOUSTICAL WALL FABRIC (TACKABLE)	ELEV.	ELEVATOR	LAM.	LAMINATE (D)	SNT.	SEALANT
AWP	ACOUSTICAL WALL PANEL	EL.	ELEVATION	LM	LATEX MASTIC FLOORING	STG.	SEATING
B/B B/C	BACK TO BACK BACK OF CURB OR BOTTOM CHORD	ENC.	EMBEDMENT ENCLOSE (URE)	LDRY. LAV.		SEC. SS.	SECTION SERVICE SINK
B.O.C.	BACK OF CURB BACK PLASTER (ED)	E.S. EPY FO	EPOXY (COATINGS)	L.H. LT.		SHT. SHT.	SHEAT FIING SHEET SHEET GLASS
BP	BP BRICK PAVERS (UNIT PAVERS)	EQUIP.	EQUIPMENT	LW.	LIGHTWEIGHT	SH.	SHELF OR SHELVING
BALC		ERF	EPOXY RESINOUS FLOORING	LWC	LIGHTWEIGHT CONCRETE	S & P	SHELF AND POLF
BSMT	BASEMENT	ESC.	ESCALATOR	LMS.	LIMESTONE	SHO.	SHORE (D), (ING)
B.	BATHROOM	EMER.	EMERGENCY	LTL.		SHWR.	SHOWER
B.F.	BARRIER FREE	EST.	ESTIMATE	L.L.	LIVE LOAD	SIM.	SIMILAR
BRG.	BEARING	EXCA.	EXCAVATE	LR.	LIVING ROOM	SKL.	SKYLIGHT
BPL.	BEARING PLATE	EXH.	EXHAUST	L.G.	LONG	SL.	SLEEVE
BJT.	BED JOINT E	XIST./ EX.	EXISTING	L.L.H.	LONG LEG HORIZONTAL	SD.	SOAP DISPENSER
BR.	BEDROOM	EXMP.	EXPANDED METAL PLATE	L.L.V.	LONG LEG VERTICAL	SC.	SOLID CORE
BR	BR BRICK (UNIT MASONRY)	EXP.	EXPANSION	LVR.	LOUVER	SP.	SOUNDPROOF
BM.	BENCHMARK OR BEAM	E.B.	EXPANSION BOLT	L.H.	LOUVER HEADER	SAB.	SOUND ATTENUATION BATT
BEL.	BELOW	E.J.	EXPANSION JOINT	L.J.	LOUVER JAMB	SPC.	
BVL.	BEVELED	EXP	EXPOSED	L.S.	LOUVER SILL	SPK.	SPEAKER
BIT.	BITUMINOUS	E.C.	EXPOSED CONCRETE	L.P.	LOW POINT OR LIGHT POLE	SPL.	SPECIAL
BLKG	BLOCK BLOCKING BOARD	EXT. EXS. EXTR	EXTERIOR EXTRA STRONG EXTRUDE (R)	MACH.		SC	(SPECIAL COATING)
B.S. B.W.	BOTH SIDES BOTH WAYS	F.O.W.	FACE OF WALL	MH. MANUF.	MANHOLE MANUFACTURER	SPEC.	SPECIFICATION (S) SQUARE
BOT.	BOTTOM	FB.	FACE BRICK	MFG.	MANUFACTURING	SQ.	SQUARE
B/	BOTTOM OF	F.O.C.	FACE OF CONCRETE	MT.	MARBLE THRESHOLD	SQ. FT.	SQUARE FEET / FOOT
B.O.D	. BOTTOM OF DECK	F.O.F.	FACE OF FINISH	MAS.	MASONRY	STAG.	STAGGERED
B.O.F	. BOTTOM OF FOOTING	F.O.M.	FACE OF MASONRY	M.O.	MASONRY OPENING	ST.	STAIN
B.O.P.	BOTTOM OF PIPE	F.O.S.	FACE OF STUD	MATL./ MAT	MATERIAL	STD.	STANDARD
B.O.W	/. BOTTOM OF WALL	F/F	FACE TO FACE OR FINISHED FLOOR	MAX.	MAXIMUM	STA.	STATION
BLVD	BOULEVARD	F.F.	FACTORY FINISH	MECH.	MECHANIC (AL)	STL.	STEEL
	B. BRACING	FF.	FROST FREE	M.C.	MEDICINE CABINET	STO.	STORAGE
BRKI BC.	BRICK	F/G F.S.	FINISHED GRADE FAR SIDE EASTEN (ED)	MEZZ.	MULTI-COLOR COATING MEZZANINE MINIMUM	SD. STW.	STORM DRAIN STORM SEWER
BLDG BLDG	B. BUILDING BUILDING LINE	FAS. FT. FN	FEET FENCE	MIR. MISC		SCT.	STRUCTURAL STRUCTURAL CLAY TILE STONE (CAST)
B.U.R	D. BUILT UP ROOFING	FBD.	FIBERBOARD	MOD.	MODULAR	SUS.	SUSPEND (ED)
BLKH	D.BULKHEAD	FRP.	FIBERGLAS REINFORCED PANEL(S)	MLD.	MOLDING OR MOULDING	SURF.	SURFACE
BBD.	BULLETIN BOARD	FIN.	FINISH	MR.	MOP RECEPTOR	SYM.	SYMMETRY (ICAL)
CAB.	CABINET	FFL.	FINISHED FLOOR LINE	MT.	MOUNT (ED), (ING)	SYN.	SYNTHETIC
CAD.	CADMIUM OR CAD	F.A.	FIRE ALARM	MTL.	METAL	SYS.	SYSTEM
CLK.	CALK (ING) OR CAULK (ING)	FBRK.	FIRE BRICK	MOV.	MOVEABLE	T	TREAD
CP	CARPET (WITHOUT CUSHION BROADLOOM)	F.E.	FIRE EXTINGUISHER (BRACKET)	MULL.	MULLION	T/	TOP OF
CPT.	CARPET TILE	F.E.C.	FIRE EXTINGUISHER (CABINET)	N	NORTH	T/C	TOP OF CURB OR
CSM1	CASEMENT	F.H.	FIRE HYDRANT	N.S.	NEAR SIDE	T/P	TOP CHORD
C.I.	CAST IRON	FHC.	FIRE HOSE CABINET	NOM.	NOMINAL		TOP OF PAVEMENT
C.I.P.C C.S.	CAST IN PLACE CONCRETE CAST STONE CATCH BASIN	FIN. F.M. FP	FIRE MAIN FIRE PROOF OR FIRE PLACE	NF NF		T/S T/STI	TOP OF WALK TOP OF SLAB TOP OF STEEL
CLG.	CEILING	FRC.	FIRE RESISTANT COATING	N.T.S.	NOT TO SCALE	TKBD.	TACK BOARD
CHT	CEILING HEIGHT	FRT.		NO.	NUMBER	TKS.	TACK STRIP
CEM.	CEMENT	FIXT.	FIXTURE	0/0	OUT TO OUT	TEL.	TELEPHONE
CPPL	CEMENT PLASTER (PORTLAND)	FLG.	FLASHING OR FLANGE	0.C.	ON CENTER	TV.	TELEVISION
୦/୦	CENTER TO CENTER	FHMS.	FLATHEAD MACHINE SCREW	OPG.	OPENING	TEMPGL.	TEMPERED GLASS
ଜୁ	CENTER LINE	FHWS.	FLATHEAD WOOD SCREW	OPS.	OPPOSITE	TEMP.	TEMPORARY
C.P.	CENTER POINT	FLX.	FLEXIBLE	O.D.	OUTSIDE DIAMETER	TC.	TERRA COTTA
CM.	CENTIMETER (S)	FLR.	FLOOR (ING)	OHMS.	OVAL HEAD MACHINE SCREW	TZ.	TERRAZZO
CER.	CERAMIC	FLCO.	FLOOR CLEANOUT	OHWS.	OVAL HEAD WOOD SCREW	TT	TERRAZZO TILE (PLASTIC MATR
C.T.	CT CERAMIC TILE (FLOOR, BASE, AND WALL	.) F.D.	FLOOR DRAIN	OA.	OVERALL	THK.	THICK (NESS)
C.M.T CERT	. CERAMIC MUSAIC TILE . CERTIFIED . CHALK BOARD	FPL. FLUR.	FLUOR PLATE FLUORESCENT FLUSH JOINT	OHD. OHD.	OVERHEAD OVERHEAD DOOR PAINT (EVTERIOR INTERIOR TRANSPARENT	THD. THRESH.	THREAD (ED) THRESHOLD
CHAM	. CHAMFER CHROMIUN	FTG. FRG	FOOTING FORGED	PNI	FINISHES)	Т.О.F. Т.О.Р	
CIR.	CIRCLE	FND.	FOUNDATION	PTR.	PAPER TOWEL RECEPTOR	T.O.S.	TOP OF STEEL
CIRC	CIRCUMFERENCE	FRMG.	FRAME (ED) (ING)	PAR.	PARALLEL	T.O.W.	TOP OF WALL
CL.	CLASS	FRZR.	FREEZE (ER)	PK.	PARKING	TOL.	TOLERANCE
CLR.	CLEAR (ANCE)	FRA.	FRESH AIR	PBD.	PARTICLE BOARD	T&B	TOP AND BOTTOM
C.O.	CLEAN OUT	FS.	FULL SIZE	PTN.	PARTITION	T&G	TONGUE AND GROOVE
CLR.	CLEAR	F.T.	FULLY TEMPERED	PV.	PAVE (D), (ING)	TB.	TOWEL BAR
CLS.	CLOSURE	F.B.O.	FURNISHED BY OTHERS	PVMT.	PAVEMENT	TR.	TRANSOM
COL.	COLUMN	F.B.O.	FURR (ED) (ING)	PED.	PEDESTAL	TD.	TRENCH DRAIN
COME	B. COMBINATION P. COMPACTED	FUT.		PEN. PERF.	PENETRATION PERFORATE (D)	TYP. U.N.O.	TYPICAL UNLESS NOTED OTHERWISE
COMP	O.COMPARTMENT O.COMPOSITION (COMPOSITE)	GA.	GAGE GALVANIZE (D)	PERIM. PC.	PERIMETER PIECE PRECAST (ARCHITECTURAL	U/S	UNDERSIDE
CONC	CONCRETE CONNECTION	GST.	GLAZED STRUCTURAL PANEL	PCP	PRECAST CONCRETE PANELS)	VB. VP	VAPOR BARRIER VENEER PLASTER
CONS	T. CONSTRUCTION	G.B.	GRAB BAR	PFW	POLYPROPYLENE FABRIC WALLCOVERING	VERT.	VERTICAL
C.J.	CONTROL JOINT	GD.	GRADE OR GRADING	PLAS./ PL	PLASTER	V.I.F.	VERIFY IN FIELD
CONT	. CONTINUOUS OR CONTINUATION	GRN.	GRANITE	PLAM.	PLASTIC LAMINATE	VIN.	VINYL SHEET
CONT	R. CONTRACT (OR)	GRAT.	GRATING	PL	PLATE	VCT.	RESILIENT TILE FLOORING
C.L.L.	CONTRACT LIMIT LINE	GVL.	GRAVEL	PG.	PLATE GLASS	W	(VINYL COMPOSITION TILE)
CMU.	CONCRETE MASONRY UNIT	G.F.	GROUND FACE	PLBG.	PLUMING		WEST, WIDTH OR WALLCOVERIN
CNJ.	CONSTRUCTION JOINT	GRT.	GROUT	PWD.	PLYWOOD	WB	(VINYL COATED FABRIC)
COORI	D. COORDINATE (ION) GYP.	BD./ GB/ GWB	GYPSUM WALLBOARD SYSTEMS	PT.	POINT OR POINT TANGENT		WALL BORDER
CPR. C.G.		GPL. GPT.	GYPSUM PLASTER LATH GYPSUM TILE	P.C. POL.	POINT OF CURVATURE POLISH (ED)	W/O	
CORIE		н H.R. HDW// шм/	HANDRAIL HARDWARE SET (EINISH OP	PUT PIV. PTC	POLYUKETHANE POST INDICATOR VALVE POST TENSION CONCRETE	wc. WD. wн	WATER GLUSET WOOD WATER HEATER
CIVIP. CPPP CTR	. CORRUGATED PERFORATED PLASTIC PIPE COUNTER	HJT	BUILDERS HARDWARE) HEAD JOINT	P.C.F. PIF	POUNDS PER CUBIC FOOT	WM. WP	WATER MAIN WALLCOVERING PROTECTIVE
CFL.	COUNTER FLASHING	HDR.	HEADER	P.S.F.	POUNDS PER SQUARE FOOT	WP.	(RIGID PVC SHEET)
C.S	COUNTER SINK	HTG.	HEATING	P.S.I.	POUNDS PER SQUARE INCH		WATER PROOF (ING)
CTSK	COUNTERSUNK	HVAC.	HEATING / VENTILATING /	PCC.	PRECAST CONCRETE	WS.	WATER SERVICE
CRS.	COURSE (S)		AIR CONDITIONING	PEMB.	PRE-ENGINEERED METAL BUILDING	WR.	WEATHER RESISTANT
CRG.	CROSS GRAIN	HT.	HEIGHT	PRE-FIN.	PRE-FINISHED	WSF	WELDED SEAM SHEET FLOORIN
CTYD	COURTYARD	H.P.	HIGH POINT	PSC.	PRESTRESSED CONCRETE	WIN.	WINDOW
CFT.	CUBIC FOOT	H.S.B.	HIGH STRENGTH BOLT	PREV.	PREVIOUSLY W	.W.F./ W.W.R/	WELDED WIRE FABRIC/
CYD.	CUBIC YARD	H.C.	HOLLOW CORE	P.L.	PROPERTY LINE	W.W.M.	WELDED WIRE REINFORCEMEN
		н.м. НК.	HOLLOW METAL HOOK	PROP. QT.	PROPOSED QUARRY TILE	YRD.	WELDED WIRE MESH YARD (S)
				QTY.		XS.	EXIKA SIRONG

STATEMENT OF SPECIAL INSPECTIONS					
UNLESS OTHERWISE NOTED, THE GENERAL CONTRACTOR MUST COORDINATE AND SCHEDULE ALL INSPECTIONS AND TESTING REQUIRED IN EACH SECTION OF THE SPECIFICATION AND THE SPECIAL INSPECTIONS MARKED BELOW. NOTIFY EACH INSPECTING OR TESTING AUTHORITY OR AGENCY 24 HOURS IN ADVANCE OF EACH INSPECTION OR TEST. SUBMIT ONE COPY OF EACH REPORT OR TEST AS IT IS MADE AVAILABLE TO THE ARCHITECT FOR THEIR REVIEW. THE GENERAL CONTRACTOR MUST HIRE AND PAY A THIRD PARTY COMPANY TO COMPLETE ALL REQUIRED INSPECTIONS, TESTING AND SPECIAL INSPECTIONS.					
THE AREAS MARKED BELOW MUST HAVE SPECIAL INSPECTIONS [X] INSPECTION OF FABRICATORS (1704.2.5) [X] STRUCTURAL STEEL [X] STEEL JOISTS AND GIRDERS [] PRECAST CONCRETE [] PRESTRESSED CONCRETE [] WOOD CONSTRUCTION (SECTION 1705.5)- PREFABRICATED STRUCTURAL ELEMENTS COVERING: [] MANUFACTURED WOOD TRUSSES [] WALLS [] FLOORS [] ROOF ASSEMBLIES					
 [] COLD- FORMED STEEL TRUSSES [X] SUBMIT FABRICATORS SHOP ACCREDITATION/ CERTIFICATION (FOR FABRICATORS REGISTERED AND APPROVED) **FABRICATOR INSPECTION IS REQUIRED UNLESS APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ). AT COMPLETION OF FABRICATION, THE TESTING AGENCY SHALL OBTAIN FROM EACH REGISTERED AND APPROVED FABRICATOR, A CERTIFICATE OF COMPLIANCE, STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND SUBMIT ALL CERTIFICATES TO THE BUILDING DEPARTMENT PER MBC 1704.2.5.2. 					
 [X] STRUCTURAL STEEL CONSTRUCTION (1705.2.1) [] STEEL CONSTRUCTION OTHER THAN STRUCTURAL (1705.2.2 & TABLE 1705.2.2) [] MATERIAL VERIFICATION OF COLD-FROMED STEEL DECK (TABLE 1705.2.2 #1) [] WELDING (1705.2.2 & TABLE 1705.2.2 #2) [] COLD-FORMED STEEL DECK (1705.2.a) [] REINFORCING STEEL (1705.2.2.b) [] COLD- FORMED STEEL TRUSSES (SPANNING 60'-O" OR GREATER (1705.2.2.2) 					
 [X] CONCRETE CONSTRUCTION (1705.3 & TABLE 1705.3) [X] REINFORCING STEEL (TABLE 1705.3 #1 & #2) [] PRESTRESSING TENDONS AND PLACEMENT (TABLE 1705.3 #1) [] WELDING (TABLE 1705.3 #2) [X] CAST-IN-PLACE ANCHORS (TABLE 1705.3 #3) [X] POST- INSTALLED ANCHORS (TABLE 1705.3 #4) [X] DESIGN MIX (TABLE 1705.3 #5) [X] SAMPLING & STRENGTH TESTS (TABLE 1705.3 #6) [X] CONCRETE PLACEMENT (TABLE 1705.3 #7) [] SHOTCRETE PLACEMENT (TABLE 1705.3 #7) [X] CURING (TABLE 1705.3 #8) [] PRESTRESSED (TABLE 1705.3 #9) [] APPLICATION OF PRESTRESSING FORCES [] GROUTING OF BONDED PRESTRESSING TENDONS/ SEISMIC 					
 [] PRECAST ERECTION (TABLE 1705.3 #10) [] VERIFICATION OF IN-SITU CONRETE STRENGTH (TABLE 1705.3 #11) [X] FORMWORK (TABLE 1705.3 #12) [X] MASONRY CONSTRUCTION (MBC 1705.4 AND MASONRY STANDARD TMS 402- 11/ACI 530, 11/ASCE 5-11), SEE ALSO EXCEPTIONS.					
 [] LEVEL 'A' QUALITY ASSURANCE, RISK CATEGORY I, II OR III DESIGNED IN ACCORDANCE W/ CHP. 5, 6 OR 7, TABLE 1.19.1 (I.E. EMPIRICAL OR PERSCRIPTIVE) [X] LEVEL 'B' QUALITY ASSURANCE [] RISK CATEGORY IV DESIGNED IN ACCORDANCE W/ CHP. 5, 6 OR 7, TABLE 1.19.2 (I.E. EMPIRICAL OR PERSCRIPTIVE) [X] RISK CATEGORY I, II OR III DESIGNED IN ACCORDANCE <u>OTHER THAN</u> CHP. 5, 6 OR 7, TABLE 1.19.2 (I.E. ENGINEERED) [] LEVEL 'C' QUALITY ASSURANCE, RISK CATEGORY IV DESIGNED IN ACCORDANCE W/ CHP. 5, 6 OR 7, TABLE 1.19.3 (EMPIRICAL OR PERSCRIPTIVE) [] VERTICAL MASONRY FOUNDATION ELEMENTS. (1705.4.2) 					
 [] WOOD CONSTRUCTION (1705.5) [] HIGH-LOAD DIAPHRAGMS/ SHEAR WALLS (1705.5.1) [] METAL-PLATE-CONNECTED WOOD TRUSSES (SPANNING 60'-O" OR GREATER, 1705.5.2) [] PREFABRICATED WOOD SHEAR PANELS (1703.4 & 1705.1.1) 					
 [X] SOILS (1705.6 & TABLE 1705.6) [X] VERIFICATION OF BEARING MATERIAL CAPACITY (TABLE 1705.6 #1) [X] VERIFICATION OF EXCAVATION DEPTH BEARING MATERIAL (TABLE 1705.6 #2) [X] CLASSIFICATION AND TESTING OF FILL (TABLE 1705.6 #3) [X] VERIFY ENGINEERED FILL DURING PLACEMENT AND COMPACTION (TABLE 1705.6 #4) [X] VERIFY SITE/ SUBGRADE PREPARATION PRIOR TO FILL PLACEMENT (TABLE 1705.6 #5) 					
[] CAST-IN-PLACE DEEP FOUNDATIONS (1705.8, TABLE 1705.8)					
[]HELICAL PILE FOUNDATIONS (1705.9) []SPECIAL INSPECTION FOR WIND REQUIREMENTS (1705.10) []WIND EXPOSURE CATEGORY (1705.10) []B[]C[]D []STRUCTURAL WOOD (1705.10.1) []COLD-FORMED STEEL LIGHT- FRAME CONST. (1705.10.2) []WIND RESISTING COMPONENTS (17010.3) []ROOF CLADDING					
[] WALL CLADDING [] SPECIAL INSPECTION FOR SEISMIC RESISTANCE (1705.11) [] SEISMIC DESIGN CATEGORY (1705.11) [] C [] D [] E [] F [] STRUCTURAL STEEL (1705.11.1) [] STRUCTURAL WOOD (1705.11.2) [] COLD-FORMED STEEL (1705.11.3) [] DESIGNATED SEISMIC SYSTEMS (1705.11.4) [] DESIGNATED SEISMIC SYSTEMS (1705.11.4) [] ARCHITECTURAL COMPONENTS (CATEGORY D, E, F ONLY) [] EXTERIOR CLADDING [] INTERIOR/ EXTERIOR VENEER (>5 PSF) [] INTERIOR/ EXTERIOR VENEER (>5 PSF)					
 [] INTERIOR/ EXTERIOR NON-BEARING WALLS (> 15 PSF) [] SUSPENDED CEILINGS [] ACCESS FLOORS (CATEGORY D, E, F ONLY) **N/A FOR COMPONENTS <30 FT. ABOVE GRADE OR WALKING SURFACE [] MEP COMPONENTS (1705.11.6) [] EMERGENCY ELECTRICAL SYSTEMS [] OTHER ELECTRICAL EQUIPMENT (CATEGORY E, F ONLY) [] HAZARDOUS PIPING [] HAZARDOUS DUCTWORK [] VIBRATION ISOLATION SYSTEMS (W/ <!--= 1/4" CLEARANCE)</li--> [] STORAGE RACKS (>8 FT HIGH, CATEGORY D, E, F ONLY, 1705.11.7) [] SEISMIC ISOLATION SYSTEMS (1705.11.8) 					
[]STRUCTURAL TESTING FOR SEISMIC RESISTANCE (1705.12) []SEISMIC DESIGN CATEGORY (1705.12) []C[]D[]E[]F []IMPORTANCE FACTOR > 1 []CONCRETE REINFORCEMENT (1705.12.1) []STRUCTURAL STEEL (1705.12.2) []SEISMIC CERTIFICATION OF NONSTRUCTURAL COMPONENTS (1705.12.3) []ARCHITECTURAL []MECHANICAL []MECHANICAL []ELECTRICAL []SEISMIC ISOLATION SYSTEMS (1705.12.4)					
 [] SPRAYED FIRE-RESISTANT MATERIALS (1705.13) [] MASTIC & INTUMESCENT FIRE-RESISTANT COATINGS (1705.14) [] EXTERIOR INSULATION & FINISH (EIFS) (1705.15 AND 1408.6) [] WATER-RESISTIVE BARRIER COATING (1705.15.1) [X] FIRE RESISTANT PENETRATIONS AND JOINTS- HIGH RISE BLDGS. OR RISK CAT. III & IV BLDG'S. <u>U.N.O.</u> (1705.16) [X] PENETRATION FIRESTOPS (1705.16.1) [X] FIRE- RESISTANT JOINT SYSTEMS (1705.16.2) [] SMOKE CONTROL (1705.17) [] SPECIAL CASES AS DETERMINED BY AHJ (1705.1.1) 					





SIGNAGE

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





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SIGNAGE AND CONTROLS

ALL ROOMS/SAPCES TO RECEIVE SIGNAGE U.N.O., REFER TO PROJECT SPECIFICATION FOR TYPE/STYLE. SIGNAGE MUST BE MOUNTED ON THE WALL ADJACENT TO LATCH SIDE OF DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, SIGNAGE MUST BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT MUST BE 60" A.F.F. TO THE CENTERLINE OF SIGN.

SIGNS MUST HAVE AN 18" MIN. BY 18" MIN. CLEAR FLOOR SPACE, CENTERED ON THE SIGN, BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND A 45 DEGREE OPEN POSITION.

FIRE RESISTANCE RATING SIGNAGE: FIRE FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS MUST BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. SUCH IDENTIFICATION SHALL:

- 1. BE LOCATED IN ACCESSIBLE CONCEALED FLOOR, FLOOR/CEILING OR ATTIC SPACES. 2. BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30
- FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION; AND 3. INCLUDE LETTERING NOT LESS THAN 3 INCHES IN HEIGHT WITH A MINIMUM 3/8 INCH STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING "FIRE AND/OR SMOKE BARRIER -
- PROTECT ALL OPENINGS" OR SIMILAR WORDING- PROTECTED OPENING SIGNAGE REQUIRED ONLY WHERE OPENING PROTECTION IS REQUIRED. 3.1. PROTECTED OPENING SIGNAGE REQUIRED ONLY WHERE OPENING PROTECTION IS REQUIRED
- PER MMC. 3.2. SMOKE BARRIER SIGNAGE ONLY REQUIRED WHEN WALL IS DESIGNATED "SMOKE BARRIER"

INDEX TO	DRAWING S	YMBOLS	
		CL E	XISTING COLUMN LINE
REFER TO XXX	MATCH LINE		STRUCTURAL GRID
	REFERENCE TAG (GENERAL\TYPICAL USE)		I LINE
	SECTION		ALIGN CONSTRUCTION
ID. NUMBER	ELEVATION		ELEVATION, WORK POINT
	REFERENCE e(INTERIOR and\or EXTERIOR)	<pre></pre>	
XX REFER TO SI		OCCUPANT NAME ROOM NAME 150 SF	ROOM IDENTIFICATION ROOM NAME
	REFERENCE (INTERIOR ONLY)	150 SF (PFD) CLSC3 100 F	ROOM AREA (NSF) ISER REQUESTED AREA (NSF) ROOM CODE ROOM NO.
₹_	ENLARGED REFERENCE		WINDOW IDENTIFICATION
\square	REVISION CLOUD & DELTA		DOOR IDENTIFICATION
XX# XX#	PARTITION IDENTIFICATION	MATERIAL A #	FINISH IDENTIFICATION
		XXX #'-##"	CEILING FINISH/ HEIGHT
		<pre>###X</pre>	EQUIPMENT IDENTIFICATION



Project: GLADWIN

621 WEAVER CT GLADWIN, MI

TRANSPORTATION

MAINTENANCE

BLDG. ADDITION

Date Issued For **BIDS/PERMITS** 4/28/25

Drawn:	AM
Checked:	TM
Approved:	ТМ

Sheet Title: STATEMENT OF SPECIAL INSPECTIONS, ABB., DRAW. LEG.

Project Number: 521558

Sheet Number: CS-002

GENERAL CIVIL NOTES

- PRIOR TO SUBMITTING PROPOSAL, VERIFY ALL CONDITIONS GOVERNING OR AFFECTING THE CIVIL WORK; OBTAIN AND VERIFY ALL DIMENSIONS TO ENSURE THE PROPER FIT AND LOCATION OF THE CIVIL WORK, TAKE ADDITIONAL DIMENSIONS AS REQUIRED; REPORT TO THE ENGINEER ANY AND ALL CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE WORK; FAMILIARIZE YOURSELF WITH THE ACTUAL CONDITIONS OF THE CIVIL WORK, ACCESS TO THE SITE, AVAILABLE STORAGE SPACE, FACILITIES AND OBSTRUCTIONS THAT MAY BE ENCOUNTERED DURING THE PROGRESS OF WORK.
- CONTRACTOR TO FURNISH ALL NECESSARY LABOR, MATERIAL, EQUIPMENT AND FACILITIES 2. TO FURNISH, FABRICATE AND PERFORM THE REQUIRED CIVIL WORK.
- ANY EXISTING CONSTRUCTION TO BE MODIFIED AS A PART OF THIS CONTRACT SHALL BE REBUILT AS REQUIRED TO ITS PREVIOUS CONDITION OR BETTER.
- EXISTING CONSTRUCTION NOT UNDERGOING ALTERATION IS TO REMAIN UNDISTURBED, 4. WHERE SUCH CONSTRUCTION IS DISTURBED AS A RESULT OF THE OPERATIONS OF THIS CONTRACT, THE EXISTING CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
- CONTRACTOR SHALL RETAIN THE SERVICES OF A QUALIFIED INDEPENDENT THIRD PARTY TO 5. PROVIDE QUALITY CONTROL SERVICES AS REQUIRED FOR THIS PROJECT.

THE OWNER MAY RETAIN AN INDEPENDENT TESTING AGENCY TO VERIFY COMPLIANCE WITH THE REQUIREMENTS OF THE WORK. CONTRACTOR SHALL PROVIDE ACCESS AND ACCOMMODATE OWNERS REPRESENTATIVE AS REQUIRED FOR TESTING PURPOSES.

- ALL WORK REFERENCED TO THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST REVISION AND ERRATA, UNLESS MODIFIED HEREIN.
- 7. THE GENERAL CIVIL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS AND SPECIFICATIONS. SHOULD CONFLICTS EXIST BETWEEN THE DRAWINGS, SPECIFICATIONS, AND/OR THE GENERAL CIVIL NOTES, THE STRICTEST PROVISION AS DETERMINED BY THE ENGINEER SHALL GOVERN.
- ALL MATERIALS, WORK, AND WORKMANSHIP SHALL CONFORM TO APPLICABLE FEDERAL, 8. STATE AND LOCAL CODES, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS, AND UTILITY COMPANY REGULATIONS.
- THE CONTRACTOR SHALL COMPLY WITH THE CONSTRUCTION SAFETY STANDARDS AND THE 9. OCCUPATIONAL SAFETY STANDARDS (OSHA) AS ISSUED BY THE U.S. DEPARTMENT OF LABOR AND THE MICHIGAN DEPARTMENT OF LABOR (MIOSHA).
- 10. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL THE EXISTING CONDITIONS AT THE SITE INCLUDING UTILITIES, SERVICES, ETC. AND SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGES THEY CAUSE TO BOTH EXISTING, NEW CONSTRUCTION, PROPERTY AND ANY UNAUTHORIZED DISRUPTION TO ADJACENT OWNERS NORMAL USE OF UTILITIES, SERVICES, AND THE SURROUNDING FACILITIES.
- 11. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION PRIOR TO MAKING CHANGES TO, OR INTERRUPTIONS OF UTILITIES AND SHALL COMPLY WITH SPECIAL INSTRUCTIONS FROM THE OWNER TO MINIMIZE THE EFFECT ON THEIR OPERATIONS. PRIOR TO ANY EXCAVATION, EARTH MOVING WORK OR REMOVAL OF ANY PIPE FROM SERVICE, THE CONTRACTOR SHALL REVIEW WITH THE OWNER'S REPRESENTATIVE THE LOCATION OF THE UNDERGROUND UTILITIES, SERVICE AND STRUCTURES IN THE AREA WHERE THE WORK IS BEING PERFORMED. PROVIDE FULL TIME SUPERVISION DURING ALL EXCAVATION AND EARTH MOVING OPERATIONS AND TAKE ALL RESPONSIBLE PRECAUTIONS TO PROTECT EXISTING UTILITIES, SERVICES AND OPERATIONS FROM DAMAGE OR DISRUPTIONS. ALL DAMAGE SHALL BE IMMEDIATELY REPAIRED
- 12. PROVIDE BARRIER PROTECTION FOR VEHICULAR AND PEDESTRIAN TRAFFIC AT EXCAVATIONS. TEMPORARY FENCING, BARRICADING AND PEDESTRIAN ROUTING SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
- 13. ALL WORK IN THE PUBLIC RIGHT OF WAY SHALL BE DONE WITH THE PRIOR KNOWLEDGE AND CONSENT OF OFFICIALS HAVING JURISDICTION. MINIMIZE DISRUPTION OF TRAFFIC FLOW DURING WORK.
- 14. DISPOSE OF ALL UNSUITABLE SOILS AND WASTE MATERIALS (NEW AND EXISTING) OFF SITE IN A LEGAL MANNER.
- 15. PERFORM FINAL CLEANUP OF WORK AREAS. LEAVE WORK IN A COMPLETE AND ACCEPTABLE MANNER. PERFORM ALL ACTIVITIES NECESSARY TO ACHIEVE COMPLETION WHETHER SPECIFICALLY SHOWN OR DETAILED ON THE DRAWINGS.
- 16. ALL CIVIL WORK SHALL BE COORDINATED WITH AND IN CONJUNCTION WITH THE WORK OF THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND LANDSCAPE PLANS.
- 17. A GEOTECHNICAL INVESTIGATION, DATED NOVEMBER 14, 2021, WAS PREPARED BY PREIN & NEWHOF. A COPY MAY BE OBTAINED FROM THE OFFICE OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING SITE CONDITION EXAMINATION TO PROVIDE AN ACCURATE AND COMPLETE PROPOSAL TO PERFORM THE NECESSARY WORK.
- 18. IF ANY ARTIFACTS ARE DISCOVERED DURING CONSTRUCTION ALL WORK IS TO STOP AND THE OWNERS' REPRESENTATIVE/ PROJECT MANAGER SHALL BE IMMEDIATELY NOTIFIED. ARTIFACTS OR ARCHEOLOGICAL MATERIALS ARE DEFINED AS: ABORIGINAL ANTIQUITIES, AND OTHER RECORDS OF ANTIQUITY, INCLUDING MOUNDS, MINES, EARTHWORKS, VILLAGE SITES, CAMPSITES, BURIALS, HUMAN OR OTHER BONES, SHELLS, STONE IMPLEMENTS, BONE OR COPPER IMPLEMENTS, POTTERY OR SHARDS OF POTTERY, OR OTHER OBJECTS RELATING TO NATIVE AMERICAN OCCUPATION: MODERN ARTIFACTS, SUCH AS FORTS, RELICS AND OTHER ARTIFACTS RELATING TO HISTORIC, COLONIAL, TERRITORIAL AND EARLY STATEHOOD PERIODS.

CLEARING, GRUBBING, & EARTHWORK

- 1. AT THE START OF EARTHWORK OPERATIONS, ALL SURF AND THE EXISTING TOPSOIL AND ANY OTHER ORGANI ENTIRETY FROM BELOW THE PROPOSED BUILDING AN STOCKPILED FOR LATER RE-USE. CONCRETE, STUMPS REMOVED COMPLETELY FROM WITHIN THE WORK AR MATTER AND DEBRIS OFFSITE IN A LEGAL MANNER.
- THE SUB-GRADE SHOULD BE THOROUGHLY PROOF-RO VEHICLE SUCH AS A LOADED DUMP TRUCK. ANY AREA AND YIELDING DURING PROOF-ROLLING SHOULD BE AND COMPACTION IF WEATHER CONDITIONS ARE FAV **REPLACEMENT WITH ENGINEERED FILL.**
- 3. ALL EXCAVATIONS ARE SUBJECT TO THE APPROVAL OF SHALL BE CONSULTED WHEN POOR SOIL, WATER, OBS FOOTINGS, EXCAVATIONS, ETC. ARE ENCOUNTERED.
- 4. CONTRACTOR SHALL FURNISH AND OPERATE ALL REQU OBTAIN A SUBCONTRACTOR SPECIALIZING IN DEWATE EXCAVATION UNTIL BACKFILL IS COMPLETE.
- MATERIAL FOR BACKFILL OR ENGINEERED FILL REQUIR SHOULD CONSIST OF NON-ORGANIC SOILS AND HAVE ANY DIMENSION. THE ON-SITE SOILS THAT ARE FREE C LESS THAN 2 INCHES IN ANY DIMENSION MAY BE USED ENGINEERS APPROVAL.
- BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF DETERMINED BY THE MODIFIED PROCTOR METHODS (EXCEEDING 12-INCHES IN LOOSE THICKNESS.
- 7. FROZEN MATERIAL SHALL NOT BE USED AS FILL, NOR S SUB-GRADE.
- 8. BACKFILL GRADE BEAMS, FOOTINGS, AND STRUCTURES LOADINGS.
- 9. CONSTRUCTION DRAINAGE: STORM WATER ACCUMUL EXCAVATIONS IS TO DRAIN BY NATURAL PERCOLATION
- 10. SLOPE SMOOTHLY BETWEEN INDICATED ELEVATIONS. FLATTER.
- 11. NEW GRADES SHOWN ARE FINISHED GRADES AND INC SURFACES SUCH AS PAVEMENTS AND WALKS.
- 12. PROVIDE 4 INCHES OF TOPSOIL, SEED AND MULCH AT I NOTED OTHERWISE. REUSE SALVAGED TOPSOIL, AUGN ACHIEVE REQUIRED DEPTH. EXISTING TOPSOIL SHALL F **RE-USE ON THE PROJECT.**
- 13. TREES: TREES NOT INDICATED TO BE REMOVED OR TRA WITH 4' HIGH ORANGE CONSTRUCTION FENCE 10' FRO MATERIALS GENERATED FROM REMOVING TREES OR S DISPOSED OF AS PER THE MICHIGAN DEPARTMENT OF COST SHALL BE INCLUDED IN THE COST OF THE WORK.
- 14. GREAT CARE SHALL BE TAKEN BY CONTRACTOR'S TO A OUTSIDE THE LIMITS OF CONSTRUCTION AND TO KEEP MINIMUM. DRIVING SHALL NOT BE PERMITTED OUTSI
- 15. EARTHWORK QUANTITIES ARE ESTIMATES ONLY. CONT DETERMINING THEIR OWN QUANTITIES FOR CONSTRU

SOIL EROSION AND SEDIMENTATION CONTROL

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEN DOCUMENTATION OF SEDIMENTATION, EROSION COM RELATED TO THE PROJECT. THIS SHALL BE DONE IN ACC EROSION AND SEDIMENTATION CONTROL, OF THE NAT ENVIRONMENTAL PROTECTION ACT.
- 2. INSPECTIONS SHALL BE MADE WEEKLY AND AFTER RAI EFFECTIVENESS OF EROSION AND SEDIMENT CONTRO IMPROVEMENTS OR REPAIRS SHALL BE PERFORMED
- SEDIMENT AND EROSION FROM ALL WORK AREAS SHA AWAY FROM WETLANDS, OUTFALLS, WATERWAYS, AM AREAS. WATERWAYS INCLUDE BOTH NATURAL AND M STORM DRAINS, LAKES, AND PONDS.
- 4. PROVIDE MULCH BLANKETS FOR ALL SLOPES GREATER OR HI-VELOCITY MULCH BLANKETS ON SLOPES GREATE MANUFACTURERS RECOMMENDATIONS.
- MAINTAIN EROSION CONTROL MEASURES UNTIL CONS AREAS ARE FULLY DEVELOPED.
- 6. REMOVE TEMPORARY SEDIMENTATION AND EROSION COMPLETION OF PROJECT.
- 7. IF AN EXISTING STORM SEWER SYSTEM HAS RECEIVED SEDIMENTATION IN THE OPINION OF THE ENGINEER, CLEANED IN ITS ENTIRETY. THIS MAY INCLUDE JETTING VACTORING OF THE DRAINAGE STRUCTURES. COST W PRICE OF OTHER WORK.
- IF THE CONTRACTOR FAILS TO FOLLOW THE GUIDELINE WILL SUSPEND WORK UNTIL REMEDIAL ACTION HAS B

	SEQUENCE OF EROSION AND SEDIMENTATION CONTROL OPERATIONS:	CON	CRETE CAST I
FACE VEGETATION SHALL BE CLEARED IC SOILS SHALL BE REMOVED IN THEIR ND PAVEMENT AREAS AND	1. CONTRACTOR SHALL PREPARE A CONSTRUCTION SEQUENCE AND SESC PLAN AND OBTAIN AN SESC PERMIT PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS.	1.	WORK SHAI WORK OF T SPECIFIED B
AND OTHER DEBRIS SHALL BE REA. DISPOSE OF VEGETATIVE	2. A PERIMETER DEFENSE WILL BE INSTALLED PRIOR TO CONSTRUCTION TO CONTAIN RUNOFF FROM ALL PROPOSED DISTURBED AREAS. SEDIMENT CONTROL WILL BE INITIATED WHICH WILL CONSIST OF MAINTAINING ALL EXISTING VEGETATION AND DIRECTING ALL RUNOFF ON SITE.	2.	ALL EXTERIO PSI, MAXIM
OLLED WITH A HEAVY RUBBER-TIRED AS THAT EXHIBIT EXCESSIVE PUMPING STABILIZED BY AERATION, DRYING	3. DURING CONSTRUCTION THE ENDS OF ALL OPEN PIPES WILL BE PROTECTED BY FILTER FABRIC, STONE FILTERS OR OTHER APPROVED MEANS. ALL DRAINAGE STRUCTURES SHALL HAVE INLET PROTECTION, FABRIC DROP INSTALLED.	3.	ALL WELDE OVERLAP 8
VORABLE, OR REMOVAL AND	4. AT THE COMPLETION OF THE CONSTRUCTION, TEMPORARY CONTROL MEASURES ARE TO BE	4.	CONSTRUCT CONCRETE.
F THE DESIGNER OF RECORD WHO STRUCTIONS, PIPING, EXISTING	THE GROUND PERMANENTLY STABILIZED. FILTER FABRIC FENCES SHALL BE REMOVED AND ANY BARE SPOTS ARE TO BE SEEDED. CATCH BASINS AND DRAIN INLETS ARE TO BE CAREFULLY UNCOVERED AND ANY SEDIMENT OR DEBRIS IS TO BE REMOVED.	5.	CONSTRUC DETAILS R-2
UIRED DEWATERING EQUIPMENT OR	5. CONTRACTOR IS TO SEED CRITICAL AREAS IDENTIFIED BY OWNER OR OWNER'S REPRESENTATIVE	6.	APPLY A NC
	DAILY, WHEN THOSE AREAS ARE SUBJECT TO EARTH CHANGES. CONTRACTOR IS ALSO RESPONSIBLE FOR REGULAR MAINTENANCE OF PLANT COVER IN THESE AREAS. COVER SHALL BE MAINTAINED SO AS TO CONTROL SOIL EROSION.	7.	PROTECT CO
RED TO ACHIEVE DESIGN GRADES E NO CLUMPS LARGER THAN 2 INCH IN DF ORGANIC MATTER AND DEBRIS	6. ALL DENUDED AREA'S ARE TO BE SEEDED AND MULCHED DAILY, UPON COMPLETION OF FINAL GRADING.	8.	PREVENT TH STRENGTH.
D FOR ENGINEERED FILL WITH	7. AT THE CONCLUSION OF CONSTRUCTION, THE OWNER WILL ASSUME THE RESPONSIBILITY FOR	CON	
F ITS' MAXIMUM DENSITY AS (ASTM D1557) IN LIETS NOT	 PROVIDE DUST CONTROL AS NEEDED. WATER SHALL BE IMPLEMENTED AS NEEDED. 	1.	INDEPENDE
	HMA PAVING	2.	INSPECTOR
SHALL FILL BE PLACED ON FROZEN	1. ALL HOT MIX ASPHALT AND CONCRETE PAVING SHALL CONFORM TO THE 2020 MDOT STANDARD	3	TESTS SHAL
ES EQUALLY TO PREVENT ECCENTRIC	SPECIFICATIONS FOR CONSTRUCTION.	5.	A.)
	2. RESTORE PAVEMENT AND OTHER SURFACES DISTURBED BY CONTRACT OPERATIONS TO THEIR ORIGINAL CONDITION OR BETTER.		В.)
LATED IN THE PROJECT SITE	3. PROTECT PAVEMENT AFTER FINAL ROLLING FROM VEHICULAR TRAFFIC UNTIL THE SURFACE HAS COOLED SUFFICIENTLY TO PREVENT ABRASION.		
SLOPE ALL EARTH BANKS 4:1 OR	4. PROVIDE 4 INCH WIDE WHITE PAINT STRIPING FOR LANE STRIPING AND PARKING STALLS. PROVIDE 4 INCH WIDE YELLOW PAINT STRIPING FOR NO PARKING AREAS. PROVIDE 4 INCH WIDE BLUE PAINT		C.)
CLUDES TOP OF TOPSOIL OR	STRIPING FOR HANDICAP ACCESSIBLE STALLS.		D.)
DISTURBED LAWN AREAS, EXCEPT AS MENT WITH IMPORTED MATERIAL TO	 ALL PAVEMENT MARKINGS TO BE WATERBORNE BETWEEN MAY 1 AND OCTOBER 15, AND REGULAR DRY OCTOBER 16 TO APRIL 30. MATERIAL AND TEMPERATURE GUIDELINES TO BE IN ACCORDANCE WITH SECTION 811 OF THE MDOT SSFC. 		E.)
BE STOCKPILED AND PREPARED FOR	6. LANE MARKING SYMBOLS, ARROWS, STOP BARS, ETC. SHALL BE POLYUREA, PREFORMED	4.	PROVIDE RE
ANSPLANTED SHALL BE FENCED OFF	HAZARDOUS MATERIALS	5.	NON-PASSII OBTAINED.
OM THE DRIP LINE OF THE TREE. ALL STUMPS SHALL BE HANDLED AND	1. HAZARDOUS MATERIALS: THERE WILL BE NO ONSITE STORAGE OF CHEMICALS, SALTS, FLAMMABLE	AS C	ONSTRUCTED
	MATERIALS, OR HAZARDOUS MATERIALS.	1.	CONTRACTO
AVOID DAMAGE TO VEGETATION P THE CONSTRUCTION AREAS TO A SIDE THE LIMITS OF CONSTRUCTION.	UTILITIES 1. FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174, 2013,	2.	ALL BURIED
TRACTOR IS RESPONSIBLE FOR JCTION PURPOSES.	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.	3.	WITNESS PO MANHOLE F ARE AVAILA
MENTATION, MAINTENANCE, AND NTROL, AND STORM WATER QUALITY CORDANCE WITH PART 91, SOIL TURAL RESOURCES AND	2. MINIMUM COVER OF UNDERGROUND UTILITIES: WATER 6 FT OUTSIDE THE INFLUENCE OF DRIVEN WAY, 7 FT WITHIN NATURAL GAS 2.5 FT SANITARY SEWERS 4.0 FT		
		4.	TO AND AC
IN EVENTS TO DETERMINE THE DL MEASURES. ANY NECESSARY	OWNER'S REPRESENTATIVE IF AVAILABLE COVER, AT INDICATED ELEVATIONS, IS LESS THAN MINIMUM	SUB	MITTALS:
ALL BE CONTAINED ON THE SITE	3. EXISTING UTILITIES: INFORMATION HAS BEEN OBTAINED FROM EXISTING AVAILABLE DRAWINGS AND	1.	SUBMIT ELE OTHER SUB
ND ENVIRONMENTALLY SENSITIVE MAN-MADE OPEN DITCHES, STREAMS,	SURFACE FEATURES SHOWN ON THE TOPOGRAPHIC SURVEY. VERIFY THE INFORMATION BEFORE CONSTRUCTION. NOTIFY THE OWNER'S REPRESENTATIVE OF DISCREPANCIES OR INTERFERENCES.	2.	SUBMITTAL NUMBER AS
R THAN 4:1. PROVIDE JUTE MATTING FER THAN 3:1. STAKE PER	4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING WATER LINES, STORM OR SEWER MAINS DURING THE CONSTRUCTION OF THIS PROJECT. THEY SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE PROJECT.	3.	LETTER FOL ALLOW 10 I
STRUCTION IS COMPLETE AND LAWN	5. THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT UTILITY LOCATIONS AND ELEVATIONS PRIOR TO THE START OF	4.	INCLUDE FC A. PRIME C B. SUBCON C. NAME O
N CONTROL MEASURES UPON			D. PROJECT E. DATE
EXCESSIVE LOADING OF THE SYSTEM DOWN STREAM SHALL BE	ABANDONED OR REMOVED, TO FINISH GRADE ELEVATION. ADJUSTMENTS SHALL BE MADE USING PRECAST GRADE RINGS.	5.	PROVIDE AL MARKINGS
VILL BE INCIDENTAL TO THE UNIT	7. PRIOR TO CONSTRUCTION, EXISTING UTILITIES AT PROPOSED CONNECTIONS AND CROSSINGS SHALL BE FIELD EXCAVATED TO VERIFY LOCATIONS, ELEVATION AND SIZE. THE OWNER'S REPRESENTATIVE MAY CONFIRM, ADJUST OR REVISE DESIGN ELEVATIONS OF THE PROPOSED UTILITIES.	6.	SUBMIT CA STATEMEN REQUIRED T
IES IDENTIFIED ABOVE, THE OWNER BEEN PERFORMED.	8. ALL CONNECTIONS TO EXISTING MUNICIPAL UTILITIES SHALL BE OBSERVED BY AN OFFICIAL OF THE MUNICIPALITY OR THEIR DESIGNATED REPRESENTATIVE.	7.	CIRCLE, UNI USE WHEN
	9. PROVIDE A MINIMUM OF 24 HOURS NOTICE TO MUNICIPALITY PRIOR TO MAKING CONNECTIONS.	8.	NOTE ANY [
		0	

TE CAST IN-PLACE

/ORK SHALL BE PERFORMED BY A FIRM EXPERIENCED IN THE PLACEMENT AND FINISHING OF /ORK OF THIS NATURE AND CONFORM TO THE REQUIREMENTS OF ACI 301 EXCEPT AS PECIFIED BY STRUCTURAL REQUIREMENTS ON THE DRAWINGS OR SPECIFICATIONS.

ALL EXTERIOR CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 SI, MAXIMUM W/C RATIO OF 0.45%, AND AIR ENTRAINMENT OF 5%, +/- 1%.

LL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND BE PROVIDED IN FLAT SHEETS. VERLAP 8 INCHES BETWEEN SHEETS.

ONSTRUCT JOINTS TRUE TO LINE WITH SURFACE'S PERPENDICULAR TO SURFACE PLANE OF

ONSTRUCT CONTRACTION JOINTS AS SHOWN ON THE DRAWINGS OR MDOT STANDARD ETAILS R-28 AND R-29.

PPLY A NON-SLIP BROOM FINISH TO ALL EXTERIOR CONCRETE UNLESS INDICATED OTHERWISE.

ROTECT CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT EMPERATURES.

REVENT TRAFFIC OR PLACEMENT OF LOADS ON CONCRETE PRIOR TO REACHING DESIGN TRENGTH. REPLACE THOSE SECTIONS PREMATURELY LOADED.

ACTOR REQUIRED QUALITY CONTROL

ONTRACTOR SHALL RETAIN AND PAY FOR QUALITY CONTROL SERVICES FROM AN IDEPENDENT THIRD PARTY QUALIFIED TO PERFORM THESE SERVICES.

ISPECTOR / TECHNICIAN MUST HAVE CURRENT CERTIFICATION TO PERFORM THE RESPECTIVE

L	L BE PERFORMED ON THE	E FOLLOWING MATERIALS AT TH	HE SPECIFIED FREQUENCY
	GRANULAR SUB-BASE :	DENSITY GRADATION	1/1500 SFT/PER 12 IN LIFT 1/500 CYD
	AGGREGATE BASE,	DENSITY	1/1000 SFT
	SURFACE COURSE AND SHOULDERS :	GRADATION	1/300 CYD
	HMA :	DENSITY	1/500 SYD PER LIFT
	CONCRETE :	SLUMP	1/50 CYD ONCE PER DAY OR EVERY

1/50 CYD / 50 CYD OR PORTION THEREOF COMPRESSIVE STRENGTH 5 CYLINDERS/50 CYD (1-7 DAY, 2-28 DAY, 2 HOLD) E.) TRENCH BACKFILL : ONCE PER LIFT EVERY 250 LINEAL FEET OF TRENCH

ROVIDE RESULTS TO OWNER AND ENGINEER NO LATER THAN 5 DAYS AFTER TESTING.

ON-PASSING TESTS ARE TO BE REWORKED BY CONTRACTOR UNTIL ACCEPTABLE RESULTS ARE BTAINED.

STRUCTED RECORD

ONTRACTOR TO PROVIDE ENGINEER A SET OF "AS-BUILT" RECORD DRAWINGS SHOWING ANY EVISIONS TO PROPOSED PLAN IN RED.

LL BURIED WORK SHALL BE WITNESSED AT EACH CHANGE IN DIRECTION, CONNECTION POINT, ND FOUNDATION PENETRATION.

/ITNESS POINTS SHALL BE TO PERMANENT FEATURES (POWER POLES, FIRE HYDRANTS, IANHOLE FRAME & LID, ETC.) AND SHALL BE TO THREE FEATURES. IF ONLY TWO FEATURES RE AVAILABLE, THEY SHALL BE BETWEEN 120 AND 180 DEGREES APART.

INAL PAYMENT WILL NOT BE MADE UNTIL THE AS-CONSTRUCTED DRAWINGS ARE PROVIDED O AND ACCEPTED BY THE ENGINEER.

UBMIT ELECTRONIC VERSIONS (PDF) FOR SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND THER SUBMITTALS.

UBMITTALS SHALL BE NUMBERED SEQUENTIALLY. RESUBMISSIONS SHALL UTILIZE SAME IUMBER AS ORIGINAL BUT SHALL BE DESIGNATED AS A RESUBMITTAL BY THE ADDITION OF A ETTER FOLLOWING THE NUMERIC IDENTIFIER. (IE: ORIGINAL - 1, RESUBMITTAL - 1A)

LLOW 10 DAYS FOR INITIAL REVIEWS, 7 DAYS FOR RESUBMITTALS.

ICLUDE FOLLOWING ON EACH SUBMITTAL:

PRIME CONTRACTOR'S NAME SUBCONTRACTOR'S NAME (INSTALLER)

NAME OF SUPPLIER

PROJECT NAME

ROVIDE ADEQUATE CLEAR SPACE (2 1/2" X 2 1/2") FOR ENGINEERS USE IN APPROVAL IARKINGS AND ACTION.

UBMIT CATALOG CUTS, PRODUCT SPECIFICATIONS, COLOR CHARTS, COMPLIANCE TATEMENTS, TESTING AGENCY APPROVALS AND SEALS, AND OTHER INFORMATION AS EQUIRED TO VERIFY CONFORMANCE WITH PROJECT REQUIREMENTS.

IRCLE, UNDERLINE, HIGHLIGHT OR OTHERWISE IDENTIFY SPECIFIC PRODUCTS PROPOSED FOR ISE WHEN MULTIPLE ITEMS APPEAR ON A CUT SHEET.

OTE ANY DEFICIENCIES OR WAIVER FROM REQUIRED STANDARD.

PROVIDE DATA ON FOLLOWING:

A. PIPE (DI, PVC, HDPE, CONCRETE) & FITTINGS

B. DRAINAGE STRUCTURES, BOOTS, AND FRAMES AND LIDS

C. EROSION CONTROL PRODUCTS - SILT FENCE, FABRIC DROPS AND GEOTEXTILE D. QA/QC TESTING RECORDS (DENSITY, GRADATION, ETC) E. CONCRETE MIX DESIGNS

F. HMA MIX DESIGN

G. MAINTENANCE DATA, CLOSEOUT SUBMITTALS, AND WARRANTIES. H. INSTALLER, MANUFACTURER, PRODUCT, OR MATERIAL CERTIFICATES



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Key Plan:

Client:

No Scale

GLADWIN CITY AND COUNTY TRANSIT

Project: GLADWIN TRANSPORTATION MAINTENANCE ADDITION

621 WEAVER CT GLADWIN, MI



Date	Issued For
4/28/25	BIDS/PERMITS

Drawn: TJR Checked: JMM Approved: JMM

Sheet Title: NOTES

521558 Project Number:

WATER AND SEWER SYMBOLS

SA	SANITARY MANHOLE
ST	STORM SEWER MANHOLE
CB	STORM SEWER CATCH BASIN
Ĺ	HEADWALL
\bigtriangleup	CULVERT END SECTION
\ominus	WATER SERVICE CURB STOP BOX
\otimes	WATER GATE VALVE AND BOX
Ē	FIRE HYDRANT
\bigcirc	GROUND WATER MONITORING WELL
	DRAINAGE FLOW ARROW

MISCELLANEOUS SYMBOLS

Ę	MAILBOX	
	SIGN WITH ONE POST	
	SIGN WITH TWO POSTS	
	RIPRAP	
\overleftrightarrow	CONIFER TREE	
\bigcirc	DECIDUOUS TREE	
¢	SHRUB	
(\mathcal{A})	ABANDON	
B	BULKHEAD	
\bigcirc	CLEARING	
\bigcirc	REMOVAL	
(ADJ)	ADJUST	
REL)	RELOCATE	
SALV	SALVAGE	
→	TRAFFIC FLOW ARROW	
⊗ TH#25	TEST HOLE NUMBER	

 <i>E</i>	——————————————————————————————————————
 GAS	GAS
 OIL	OIL
 <i>T</i>	<i>T</i>
 <i>CTV</i>	<i>CTV</i>
 ——— FO ————	FO
 WM	

OVERHEAD UTILITY LINES

ОН-Е _____ ОН-Е ____ - OH— TEL ——— —— OH— TEL ——— - OH-CTV-----—— *OH*—*CTV*——

ROW AND PROPERTY LINE

OTHER LINESTYLES

UTILITY SYMBOLS

•	ELECTRICAL, GUY OR TELEPHONE POLE
Ē	ELECTRICAL MANHOLE
E	ELECTRICAL HANDHOLE
	ELECTRICAL TRANSFORMER BOX
	ELECTRIC & LIGHT POLE
÷.	LIGHT POLE
ĘŻł	LIGHT STANDARD
U	GENERIC UTILITY MANHOLE
(T)	TELEPHONE MANHOLE
\Leftrightarrow	TELEPHONE PEDESTAL
	GAS LINE, PETROLEUM OR FIBER OPTIC MARKER
	GAS VALVE
Ļ	GUY ANCHOR



UNDERGROUN	ND UTILITY LINES	TYLES	PL,	AN SHEET PATTERNS	<u>design</u> cf
E	E	ELECTRIC LINE			ADT (YEAR)
GAS	GAS	NATURAL GAS LINE		HMA APPROACH/DRIVEWAY	POSTED SPEED DESIGN SPEED
OIL	OIL	OIL PIPELINE			
<i>T</i>	<i>T</i>	TELEPHONE LINE		MISCELLANEOUS CONCRETE PAVEMENT	
<i>CTV</i>	CTV	CABLE TV LINE			
FO	FO	FIBER OPTICS LINE		COLD-MILLING (HMA/CONCRETE)	R = 28 = I SIDE $R = 29 = I$ DRIVI
WM	WM	WATER MAIN		HMA BASE CRUSH & SHAPE OR RUBBLIZE	R-30-G CONC
<u>over</u>	head utility li	<u>NESTYLES</u>		DETECTABLE WARNING SURFACE	UTILITY CO
—— ОН-Е ——	OH_E	ELECTRIC LINE OVERHEAD			THE UTILITIES I
OH- TEL	OH- TEL	TELEPHONE LINE OVERHEAD		SIDEWALK LANDING	THE BEST INFO RELIEVE THE C
OH_CTV	OH_CTV	CABLE TV LINE OVERHEAD			TO IT'S ACCUR
Row A	AND PROPERTY I	INESTYLES	TYPIC	AL SECTION PATTERNS	CONSUMERS EN 2400 WEISS ST
		ROW		CONCRETE PAVEMENT	SAGINAW, MI Phone: 989–
		CITY LIMITS LINE			SPECTRUM
				HMA PAVEMENT (ALL)	SAGINAW, MI Phone: 989-
	OTHER LINESTYL	LES HEDGE LINE		ACCRECATE BASE	GLADWIN COUN 301 S. STATE
		TREE LINE		AGGREGATE DAGE	GLADWIN, MI ATTENTION: DA PHONE: 989-
		FENCE		CLASS IL SUB-BASE	
		GUARDRAII			1000 W. CEDAF GLADWIN, MI
		DRAINAGE COURSE	REMOVAL	/ DEMOLITION PATTERNS	ATTENTION: TO PHONE: 989-4
ST	ST	CULVERT/STORM SEWER			
S	S	SANITARY SEWER		REMOVING SIDEWALK	
		SWAMP AREA			
$\times \times \times \times \times$	\times \times \times \times \times	REM CURB OR CURB & GUTTER		REMOVING PAVEMENT	
NOTE	PROPOSED LINESTYLES A	ND SYMBOLS ARE THE	<u>real</u> es	TATE & SURVEY SYMBOLS	
	SAME AS EXISTING EXCEP	PT BOLD		SECTION CORNER	
				QUARTER CORNER	
			$\mathbf{\Theta}$	QUARTER QUARTER CORNER	
				HALF SECTION CORNER	
				HALF QUARTER CORNER	
			\bigcirc	PROPERTY CORNER	
			-O-	REFERENCE MARKER	<u>special l</u>
			<u> </u>	CONTROL POINT	
			Ē BM#	BENCH MARK	
		PRESERVE	PRESERVE MONUMENT BOX		
	nnow what's DelC Call before dia	you	(PROTECT)	PROTECT MONUMENT CORNERS	
	પંયુ.			PROPERTY OWNERSHIP ARROW	
				CONTIGUOUS PROPERTY SYMBOL	
			123456	PARCEL NUMBER BOX	

RITERIA

ED (YEAR + 20)

 $\times, \times \times \times$ $\times, \times \times \times$ XX MPH XX MPH

LE STANDARDS

EWALK RAMP AND DETECTABLE WARNING DETAILS VEWAY OPENINGS & APPROACHES, AND CONCRETE SIDEWALK NCRETE CURB AND CONCRETE CURB & GUTTER

ONTACT LIST

LISTED BELOW AND SHOWN ON THESE PLANS REPRESENT ORMATION AVAILABLE. THIS INFORMATION DOES NOT CONTRACTOR OF THE RESPONSIBILITY TO BE SATISFIED AS RACY AND THE LOCATION OF EXISTING UTILITIES.

NERGY TREET 48602 -791-5869

<u>UTILITY</u> GAS & ELECTRIC

CATV & TELEPHONE

AD 48604 -874-2389

COUNTY ROADS

NTY ROAD COMMISSION STREET 48624 AVE PETTERSCH -426-7441

WIN AR AVENUE 48624 OM MOLSKI 426-6943

SEWER, WATER & STORM

Sidock Group ENGINEERS+ARCHITECTS+CONSULTANTS

Corporate Headquarters 45650 Grand River Avenue Novi, Michigan 48374 Ph: (248)349-4500 • Fax: (248)349-1429

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Key Plan:

No Scale

Client: GLADWIN CITY AND COUNTY TRANSIT

Project: GLADWIN TRANSPORTATION MAINTENANCE ADDITION

621 WEAVER CT GLADWIN, MI

Seal:



Issued For **BIDS/PERMITS** 4/28/25

TJR

JMM JMM

<u>LEGEND THIS PROJECT</u>

Approved: Sheet Title: LEGEND

Drawn:

Checked:







SCALE: 1" = 20' Contour Interval = 1 foot

LEGEND

O - MANHOLE Ø - CATCHBASIN Ø \odot CURB CATCHBASIN Y - FIRE HYDRANT ⊗ - WATER VALVE ⊕ - GAS VALVE Ø - TELEPHONE POLE • - POWER POLE 🧭 - POWER / TELEPHONE POLE 🔆 - LIGHT POLE ←ď I - MAIL BOX N.F.L. С ☆ - SPRINKLER \boxtimes CD - RAILROAD SIGNAL - TRANSFORMER AC - BARRIER FREE PARKING \mathbf{e} 6 (M) CONCRETE SURFACE . . . (R)

- CONCRETE CURB

- PINE

0

0

 $\mathbf{\bullet}$

⊗

 \otimes

M

_____ x _____

— —сту — —

- BUSH
- TREE
- TELEPHONE PEDESTAL
- FOUND SURVEY CORNER
- SET 1/2" IRON ROD
- BENCHMARK - SET P.K. NAIL
- GUY ANCHOR AND POLE - NOT FIELD LOCATED
- CABLE TV PEDESTAL
- ANTENNA
- SATELLITE DISH - AIR CONDITIONING UNIT - SOIL BORING
- ELECTRICAL PEDESTAL
- MEASURED DIMENSION - RECORDED DIMENSION
- STUMP
- FENCE LINE
- // // · OVERHEAD POWER LINES
 - BURIED CABLE LINES
- — c — — c — — - GASMAINS
- — — — - SANITARY SEWER LINES
- — — STORM SEWER LINES
- T — T — TELEPHONE LINES —w— — —w— — - WATERMAINS

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 or 811) 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.

PARCEL DESCRIPTION

Lot 6 and the North 1/2 of Lot 5 of "Canham Industrial Park", Section 6, T. 18 N., R. 1 W. City of Gladwin, Gladwin County, Michigan, according to the Plat thereof as recorded in Liber 16 of Plats, Pages 3-5, Gladwin County Records.

ZONING

The subject property is zoned MT (Manufacturing Technology): BUILDING SETBACKS: Minimum Lot Area Not required Minimum Lot Width Not required Front Yard Setback 50 ft. 25 ft. ea. Side Yard Setback 25 ft. Rear Yard Setback 45 ft. Maximum Building Height

For more Zoning Information see City of Gladwin ZoningOrdinances.

BENCHMARKS

BM #914 - TOP OF FLAG MOUNTING BOLT ON HYDRANT, 73'± SOUTH OF THE SOUTHEAST PROPERTY CORNER.

NAVD88 ELEV. 781.51

BM #924 - TOP OF FLAG MOUNTING BOLT ON HYDRANT, 67'± EAST OF THE NORTHEAST PROPRTY CORNER.

NAVD88 ELEV. 782.94

PREPARED BY: ROGER P. MAHONEY PROFESSIONAL SURVEYOR NO. 4001041105 230 S. WASHINGTON AVENUE SAGINAW, MICHIGAN 48607 TEL. 989-754-4717 DRAWN BY: J. THERING DATE: JANUARY 4, 2022 JOB NUMBER: 1311365SG2021 www.SpicerGroup.com

TOPOGRAPHIC SURVEY FOR: STATEWIDE SURVEYING PLLC 3050 SCHMIDT RD.

GLADWIN, MICHIGAN 48624

TOPOGRAPHIC SURVEY OF: PART OF THE NORTHWEST 1/4 OF SECTION 6, T.18 N. - R.1 W., CITY OF GLADWIN GLADWIN COUNTY, MICHIGAN





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Drawn: TJR Checked: JMM Approved: JMM

Sheet Title: EXISTING CONDITIONS/ DEMOLITION

521558 Project Number: Sheet Number:

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CONCRETE REMOVAL

UTILITY REMOVAL



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ADDITION 621 WEAVER CT

MAINTENANCE

GLADWIN, MI

Date	Issued For
4/28/25	BIDS/PERMITS

Drawn:	TJR
Checked:	JMM
Approved:	JMM

TOP OF SLAB

-Concrete pad must extend 18" outside the unit footprint

OIL SEPARATOR DETAIL

(7 (C300)

NTS

(TYP.)

B-B

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Key Plan:

No Scale

Client: GLADWIN CITY AND COUNTY TRANSIT

Project: GLADWIN TRANSPORTATION MAINTENANCE ADDITION

621 WEAVER CT GLADWIN, MI

Seal:

Date	Issued For
4/28/25	BIDS/PERMITS

Drawn:	TJR
Checked:	JMM
Approved:	JMM

521558 Project Number: C-501 Sheet Number: THIS MATERIAL IS THE EXCLUSIVE PROPERTY OF SIDOCK GROUP, INC. AND CANNOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT TH PRIOR WRITTEN CONSENT OF SIDOCK GROUP, INC. C

EXISTING NOTES

- CONTRACTOR MUST VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. VERIFY MEASUREMENTS WITH CORRESPONDING CONSTRUCTION OR EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK, AND NOTIFY THE ARCHITECT IMMEDIATELY OF SIGNIFICANT DISCREPANCIES.
- 2. VERIFY ALL CONDITIONS COVERING OR AFFECTING THE STRUCTURAL WORK; OBTAIN AND VERIFY ALL DIMENSIONS AND ELEVATIONS TO ENSURE THE PROPER STRENGTH, FIT AND LOCATION OF THE STRUCTURAL WORK; REPORT TO THE ARCHITECT ANY AND ALL CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE NEW WORK. ALL DISCREPANCIES SHALL BE FULLY RESOLVED PRIOR TO COMMENCING WORK.
- WHERE THE EXISTING CONSTRUCTION IS TO BE ALTERED, OR OTHERWISE DISTURBED, PROVIDE TEMPORARY AND/OR PERMANENT BRACING AND SHORING AS MAY BE REQUIRED BEFORE AND DURING OPERATIONS AND UNTIL THE WORK IS SAFELY COMPLETED AND NO LONGER NEEDS SAME.
- EACH CONTRACTOR SHALL PROVIDE ALL THE NECESSARY SUPPORT, BRACING, SHORING, ETC. (TEMPORARY AND/OR PERMANENT) OF BOTH NEW AND EXISTING CONSTRUCTION AS REQUIRED FOR THE SAFE INSTALLATION OF THE NEW CONSTRUCTION AND EQUIPMENT.
- 6. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF TEMPORARY

DEMOLITION WALL LEGEND:	
EXISTING WALL AND/OR CONSTRUCTION TO REMAIN	
EXISTING DOOR AND FRAME ASSEMBLY TO REMAIN	
EXISTING WINDOW, STOREFRONT/ BORROWED LITE (EXACT TYPE MAY VARY) TO BE REPLACED	
REMOVE EXISTING WALL AND/OR CONSTRUCTION	
REMOVE EXISTING SIDING	
REMOVE EXISTING WALL AND/OR CONSTRUCTION AND EXISTING DOOR AND FRAME ASSEMBLY	
**NOTE: WALL LEGEND SHOWN FOR <u>C</u> REFER TO WALL TYPES AND SECTION AND INFORMATION.	GRAPHICAL REFERENCE ONLY. IS FOR ADDITIONAL DETAILS

SCALE: 1/8"=1'-0"

-REMOVE EXISTING DOOR, FRAME & HARDWARE. PREP FOR NEW FIRE

REPAIR/RESEAL FAILED EXTERIOR SEALANT AT ALL EXTERIOR OPENINGS

-RELOCATE EXIST. EXHAUST FAN. SEE MECHANICAL PLANS

-REMOVE EXISTING WINDOW

-REMOVE AND RELOCATE EXISTING ELECTRICAL & GAS SERVICE

-REMOVE & REPLACE EXIST. DAMAGED OSB PANELS AT ELECTRICAL SERVICE W/ NEW FRT PLYWOOD.

-REMOVE EXISTING DOOR, FRAME & HARDWARE. PREP FOR NEW FIRE RATED DOOR & FRAME

-REMOVE EXISTING BOLLARD AND

-REMOVE EXISTING O.H. DOOR

- CORE EXIST. FOUNDATION FOR NEW SAN. DRAIN. REFER TO MECH. DWGS.

-REMOVE EXISTING BOLLARD AND

-REMOVE LINE & CLEANOUT FOR EXIST.

-REMOVE EXISTING WINDOW

-REMOVE EXISTING SIDING & SHEATHING TO ACCOMMODATE NEW WORK, THIS ENTIRE ELEVATION. REUSE SIDING TO REPLACE DAMAGED PANELS WHERE

DEMOLITION NOTES

- REMOVE ALL MATERIALS AND DEBRIS CREATED DURING THE DEMOLITION AND/OR CONSTRUCTION PROCESS AND DISPOSE OFF SITE IN A SAFE AND LEGAL MANNER.
- PROVIDE TEMPORARY PROTECTION AND WEATHER SEAL FOR INTERIOR DURING CONSTRUCTION PROCESS. TEMPORARY CONSTRUCTION MUST BE WATER TIGHT TO PREVENT ANY DAMAGE OR VANDALISM TO EXISTING INTERIOR SPACE.
- PROVIDE DUST MATS AT ALL CONSTRUCTION AREA ENTRANCE AND EXIT LOCATIONS.
- 4. PERFORM ALL DEMOLITION WORK REQUIRED ON THE EXISTING BUILDING AS CALLED FOR ON THE DRAWINGS AND/OR AS REQUIRED TO ACCOMMODATE THE WORK.
- CAP, PATCH AND REPAIR ALL HOLES AND SURFACES IN WALLS, FLOORS AND CEILINGS WHERE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND/OR ELECTRICAL ITEMS ARE REMOVED AS A RESULT OF THE DEMOLITION OPERATIONS.
- CARRY OUT ALL DEMOLITION WORK IN CLOSE COORDINATION AND COOPERATION WITH STRUCTURAL TRADES FOR PROPER SEQUENCING OF THE WORK TO ASSURE THE COMPLETE SAFETY AND STRUCTURAL INTEGRITY OF THE BUILDING AND ITS ELEMENTS AT ALL TIMES. PROVIDE TEMPORARY COLUMNS, JACKS, BEAMS, ETC., WHERE REQUIRED FOR SUPPORT OF EXISTING ELEMENTS OF CONSTRUCTION TO REMAIN IN SAFE, COMPETENT MANNER, IN CONFORMANCE WITH ALL LAWS, CODES ORDINANCES, RULES AND REGULATIONS BEARING ON THE WORK.
- DEMOLITION OF ALL PORTIONS OF THE STRUCTURE TO BE REMOVED SHALL BE DONE WITH UTMOST CARE, USING TOOLS AND METHODS SUBJECT TO OWNER'S APPROVAL. ALL POSSIBLE CARE SHALL BE TAKEN TO AVOID DAMAGING, SHOCK OR VIBRATION TO PORTIONS OF EXISTING STRUCTURE TO REMAIN.
- 10. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND ELEVATION OF EXISTING SEWERS, DRAINS, ETC. IN DEMOLITION AREAS BEFORE PROCEEDING WITH THE WORK, ALL DISCREPANCIES SHALL BE DOCUMENTED AND REPORTED TO THE ARCHITECT.
- 11. SAW CUT & REMOVE EXISTING CONCRETE SLAB FOR PLACEMENT OF PLUMBING WORK, FOUNDATIONS, STRUCTURAL STEEL, NECESSARY CAPPING OF EXISTING LINES AND FOUNDATION WORK, ETC. COORDINATE WITH STRUCTURAL ENGINEER AND ARCHITECT.
- 12. SAWCUT AND REMOVE EXISTING MASONRY AS REQUIRED AT EXISTING WALL OPENINGS TO ACCOMMODATE NEW DOORS/ WINDOWS.
- 13. REMOVE AND RELOCATE MECHANICAL AND ELECTRICAL ITEMS, INCLUDING PIPING, FIXTURES, EQUIPMENT, DUCTWORK, WIRING DEVICES, PANELS AND ACCESSORIES AS REQUIRED. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR MECHANICAL AND ELECTRICAL DEMOLITION.
- 14. REMOVE ALL EXISTING FLOOR DRAINS AND CLEANOUTS, AS INDICATED ON THE DRAWINGS, REMOVE ALL EXISTING EXPOSED PIPING AND ABANDON ALL HIDDEN PIPING THROUGHOUT WORK AREA.
- 15. ALL EXISTING CONSTRUCTION TO REMAIN U.N.O.
- 16. ALL EXISTING MATERIALS INDICATED TO REMAIN SHALL BE REPAIRED TO MATCH EXISTING. MATERIALS BEYOND REPAIR SHALL BE REPLACED TO MATCH EXISTING.
- 17. PATCH AND PREPARE ALL DEMOLITION AREAS FOR NEW FINISHES, REFER TO ARCHITECTURAL DRAWINGS
- 16. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SPECIFIC TRADE RELATED DEMOLITION WORK.
- 17. REFER TO SECTION 24119 SELECTIVE DEMOLITION, IN THE SPECIFICATION FOR FURTHER INFORMATION PRIOR TO THE START OF DEMOLITION.

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Key Plan:

No Scale

Client: **GLADWIN CITY** COUNTY TRANSIT

Project: GLADWIN TRANSPORTATION MAINTENANCE **BLDG. ADDITION**

621 WEAVER CT GLADWIN, MI

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/28/25 BIDS/PERMI	/28/25	BIDS/PERMITS

Drawn:	AH
Checked:	TM
Approved:	BB

Sheet Title: DEMOLITION FLOOR PLAN

521558 Project Number:

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INCLUDING BATHROOM/ TOILET ROOM EXHAUST FANS, ETC. W/ MECHANICAL DRAWINGS.

ROOF NOTES

NO MEP PENETRATIONS OF THE ROOF SYSTEM. ALL MEP PENETRATIONS TO TERMINATE THROUGH THE PEMB EXTERIOR WALLS.

CONTRACTOR TO COORDINATE LOCATION

OF ALL EXHAUST AND INTAKE LOUVERS

- ALL EXTERIOR METAL TO BE GALVANIZED, FACTORY PRIMED AND PAINTED PER THE PAINTING SCHEDULE.
- SNOW/ ICE RETENTION AT METAL ROOF AREAS INDICATED FOR GENERAL DESIGN INTENT. CONTRACTOR RESPONSIBLE FOR COORDINATION AND VERIFICATION OF LOCATION AND QUANTITY W/ ROOFING MANUFACTURER.

GUTTER W/ DOWNSPOUT

HIGH POINT (H.P.) / LOW POINT (L.P.)

OUTLINE OF EXTERIOR WALL SEE FLOOR PLAN

2 HR. RATED FIRE BARRIER

GENERAL ELEVATION NOTES FOR EXISTING BUILDING

- . REMOVE AND REPLACE EXISTING DOORS AND WINDOWS AS INDICATED ON THE DRAWINGS. GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING DOOR AND WINDOW OPENINGS.
 - 3. REMOVE AND REPLACE ALL EXISTING DAMAGED OR DETERIORATED METAL SIDING AS DETERMINED BY OWNER AND ARCHITECT.
 - 4. ALL EXISTING DAMAGED METAL-WORK TO BE REPAIRED AND/OR REPLACED TO MATCH EXISTING.
 - DOORS, COPINGS, ETC.
- 1. THE ENTIRE EXTERIOR OF THE BUILDING, INCLUDING ALL EXISTING EXTERIOR MATERIALS, METAL, CONCRETE, ETC. WILL BE CLEANED USING A NON-IONIC DETERGENT, NATURAL OR SYNTHETIC BRISTLE BRUSHES, AND A LOW PRESSURE (UNDER 100 PSI) WATER WASH.
 - 5. REMOVE AND REPLACE EXISTING BACKER ROD AND SEALANT FROM ALL VERTICAL CONTROL JOINTS, EXPANSION JOINTS, WINDOWS,

GENERAL **ELEVATION NOTES**

- REFER TO DOOR & WINDOW SCHEDULES FOR ADDITIONAL INFORMATION.
- PAINT ALL ROOFTOP MOUNTED/ WALL MOUNTED DEVICES AND PENETRATIONS TO MATCH ADJACENT ROOF MATERIAL. IF ITEMS ARE PREFINISHED, COORDINATE COLOR SELECTION W/ ARCHITECT PRIOR TO FABRICATION/ ORDERING.
- ALL EXPOSED EXTERIOR METAL, INCLUDING LINTELS, TO BE GALVANIZED AND PAINTED PER PAINTING SCHEDULE.
- ALL EXTERIOR SEALANT COLORS TO MATCH MATERIAL BEING SEALED, CONTROL/ EXPANSION JOINT SEALANT TO MATCH MORTAR COLOR, U.N.O.
- CONTRACTOR TO COORDINATE LOCATION OF ALL EXHAUST AND INTAKE LOUVERS W/ MECHANICAL DRAWINGS- ALL FRESH AIR INTAKES TO BE 4'-0" ABOVE FINISH GRADE MINIMUM AND 10'-0" MIN. FROM EXHAUST OPENINGS.
- REFER TO MECH. DRAWINGS FOR ALL LOUVER, DUCT, AND VENT LOCATIONS.
- REFER TO ELECTRICAL DRAWINGS FOR ALL EXTERIOR LIGHTING LOCATIONS.
- 8. SEAL ALL PENETRATIONS, GAPS, SPACES, JOINTS, ETC. AT ENTIRE EXTERIOR OF BUILDING.
- ALL PREFINISHED ITEMS TO BE SELECTED BY ARCHITECT FROM MANUF. STANDARD RANGE.

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EXTERIOR **ELEVATIONS**

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GLADWIN CITY COUNTY TRANSIT

TRANSPORTATION MAINTENANCE **BLDG. ADDITION**

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SECTIONS AND

521558

ROOM FINISH SCHEDULE

			JULL	-				
		WA	LLS		CE	EILING		
E	Ν	S	E	W	MATL	HEIGHT	NOTES	
	MLP	MLP	MLP	CMU	MLP.	VARIES	1,2,3,4,5	
	KEY NOTES							
	1. SEE REFLECTED CEILING PLAN, FLOOR PLAN AND SECTIONS FOR ADDITIONAL INFORMATION							
	2. EXPOSED CONC. W/ SEALER/DENSIFIER (N/A IF WVRA ADDED TO CONC.) W/ QUARTZ BROADCAST IN FOR SLIP RESISTANCE							
IRON")	") 3. C.M.U. & MORTAR TO HAVE INTEGRAL WATER REPELLANT ADMIXTURE (REFER TO SPEC) PLUS (1) FIELD APPLIED COAT OF WATER REPELLANT (REFER TO SPEC)							
	4. ME AP	TAL LINER PA	NELS TO UNI	DERSIDE OF		S. TIE IN W/ CEILING	G PANELS WHERE	
	5. PRIMARY STEEL FRAME TO RECEIVE PRIMER/PAINT FINISH TYP., COLOR TBD BY OWNER							

OR	FRA	ME	DOOR DETAIL		EIDE			
MATERIAL	TYPE	MATERIAL	HEAD	JAMB	SILL	RATING	SET	REMARKS
-	2	-	2	1	-	-	-	4, 6
-	2	-	2	1	-	-	-	4, 6
IHM	1	ІНМ	7	6	ALUM. T-HOLD	-	1	1, 2, 3, 8
IHM	1	ІНМ	7	6	ALUM. T-HOLD	-	1	1, 2, 3, 8
-	2	-	2	1	3	-	-	4, 6
-	2	-	2	1	3	-	-	4, 6
-	2	-	2	1	3	-	-	4, 6
IHM	1A	ІНМ	8	9	-	90	2	2, 3
IHM	1A	ІНМ	8	9	-	90	2	2, 3
-	2	-	5	4	-	90	-	5, 6, 7
-	-	-	-	-	-	-	-	-
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DOOR NOTES

- ELECTRONIC ACCESS CONTROL HARDWARE (EXACT TYPE T.B.D. BY OWNER); HARDWARE SHALL COMPLY V MBC SEC. 1010.1.9.9 AND SHALL BE CONNECTED TO BUILDING FIRE ALARM SYS.
- PERIMETER GASKET AND SWEEP.
- DOOR AND FRAME TO BE GALVANIZED.
- DOOR MOTOR W/ PUSH BUTTON OPERATOR AND REMOTE
- DOOR MOTOR W/ PUSH BUTTON OPERATION.
- HARDWARE BY DOOR MANUFACTURER.
- PROVIDE W/ FUSIBLE LINK CONNECTED TO FIRE ALARM. DOOR AND FRAME SUPPLIED BY PEMB SUPPLIER.

SENERAL DOOR NOTES

- ALL DOOR SIZES SPECIFIED ARE "NOMINAL".
- ALL EXTERIOR HOLLOW METAL DOOR/ FRAME ASSEMBLIES TO BE GALVANIZED AND INSULATED.
- ALL HOLLOW METAL DOOR/FRAME ASSEMBLIES IN WET LOCATIONS TO BE GALVANIZED.
- ALL EXTERIOR DOORS TO HAVE PERIMETER WEATHER STRIPPING.
- ALL DOOR, LITE, AND WINDOW FRAMES TO HAVE CONTINUOUS BACKREROD AND SEALANT AT ENTIRE
- PERIMETER, U.N.O. REFER TO PROJECT SPECIFICATION SEC. 08710 FOR HARDWARE SETS.
- CONTRACTOR TO PROVIDE AND INSTALL (1) DATA DROP AT EA. ACCESS CONTROL LOCATION (REFER TO ELECTRICAL DRAWINGS).
- ALUMINUM THRESHOLD AT ALL EXTERIOR SWING DOORS, U.N.O.
- SAND, CLEAN, & PREP ALL EXIST. OH DOOR JAMBS TO RECEIVE GALVANIZED PRIMER AND PAINT. REMOVE EXIST. WEATHERSTRIP/SEAL TO ALLOW FOR PREP/ PAINT AND REPLACE WITH NEW SEALS.
- GENERAL GLAZING NOTES: GLAZING AT ALL EXTERIOR DOORS, SIDELITES AND FIXED LITES MUST BE INSULATED, SAFETY GLAZING.
- INTERIOR GLAZING AT FIRE RATED DOORS, SIDELITES AND FIXED LITES MUST BE FIRE RATED SAFETY GLAZING DO NOT USE WIRED GLASS.
- INTERIOR GLAZING AT NON RATED FIRE DOORS, SIDELITES AND FIXED LITES MUST BE SAFETY GLAZING (FULLY TEMPERED, U.N.O.), <u>DO NOT USE WIRED GLASS</u>.
- REFER TO DOOR DETAILS FOR AIR SEALING AND FLASHING INFORMATION.

LEGEND:	
CD	COILING DOOR
IHM	INSULATED HOLLOW
N-1	NARROW LITE DOOR TYPE 1
N-2	NARROW LITE DOOR TYPE 2
IOH	INSULATED OVERHEAD DOOR

Date	Issued For
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Checked:	ТМ
Approved:	ТМ

Sheet Title: **ROOM FINISH** SCHEDULE, DOOR SCHEDULE & DETAILS

521558 Project Number:

ISSUED TO : RITSEMA ASSOC Ratings F-RATING = 2-HR. (SEE NOTE I	GLADWIN, MICHIGAN 48624			
F-RATING = 2-HR. (SEE NOTE)	ATES +			
	NO. 5 BELOW)			
	FRONT VIEW			<u>A-A</u>
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		TI, Inc.	Sheet 1 of 2	Drawing No
	Plano, Texas U	SA (800) 879-8000	Scale 3/32" = 1"	
Hilti Firestop Sy	stems Jaeger Cox <	Jarger 67	DJ Date June 21, 202	3 29/992
	Saving Lives through Ini	novation and E	ducation	
ADDRESS : 615 WEAVER CT, (ISSUED TO : RITSEMA ASSOC Ratings F-RATING = 2-HR, (SEE NOTE	GLADWIN, MICHIGAN 48624 ATES +			
I. BUILT UP METAL ROO	F DECK ASSEMBLY (NON FIRE	-RATED).		
I. BUILT UP METAL ROO 2. CONCRETE WALL ASS A. LIGHTWEIGHT OR	F DECK ASSEMBLY (NON FIRE EMBLY (2-HR. FIRE-RATING) : NORMAL WEIGHT CONCRETE	-RATED). WALL (MINIMUM 8	" THICK).	
I. BUILT UP METAL ROO 2. CONCRETE WALL ASS A. LIGHTWEIGHT OR B. ANY UL/CUL CLAS 3. STEEL ANGLES (MAXI	F DECK ASSEMBLY (NON FIRE EMBLY (2-HR. FIRE-RATING) : NORMAL WEIGHT CONCRETE SIFIED CONCRETE BLOCK WAI NUM SIZE : 5" x 3" x 12 GA., OR	-RATED). WALL (MINIMUM 8 _L. 2 THICKER) CUT M	" THICK). AXIMUM 12" LONG AN	D FASTENED
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PARTITION AND RATED ASSEMBLY NOTES

THERE ARE TWO TYPES OF SYMBOL DESIGNATIONS, ONE FOR WALLS NOT REQUIRING SOUND

COMBINATION OF BOTH DESIGNATIONS.

WALLS ARE DISTINGUISHED ON FLOOR PLANS BY SYMBOL DESIGNATION, GRAPHIC DESIGNATION OR A 14. WALLS ARE INDICATED WITH CONVENTIONAL GYPSUM WALLBOARD; UPGRADE TO PREMIUM TYPES OF

ATTENUATION AND ANOTHER FOR WALLS WHICH REQUIRI MATRICES FOR SOUND ATTENUATION BLANKET (SAB) MIN	E SOUND ATTENUATIONS. REFER TO PARTITION MUM THICKNESS FOR STC INDICATED.	¹ 14.1. <u>FOR ALL WALL TYPES:</u> WHERE WALL TILE IS THE SCHEDULED FINISH, PROVIDE AND INSTALL 5/8" REINFORCED FIBERGLASS CEMENTITIOUS TILE BACKER BOARD IN LIEU OF GYPSUM BOARD.
XX# SYMBOL DESIGNATION (NO SOUND ATTENUATION BATTS) (WITH	OL DESIGNATION I SOUND ATTENUATION BATTS)	14.2. PROVIDE AND INSTALL MOLD AND MOISTURE RESISTANT GYPSUM BOARD (FIRE RATED WHERE APPLICABLE) FOR ALL WALL AND ASSEMBLY TYPES LOCATED IN MOISTURE PRONE LOCATIONS; I.E. BATHROOMS/ TOILET ROOMS/ SHOWER ROOMS/ RESTROOMS, LAUNDRY AREAS, POOL AREAS, TYP.
3. THE SYMBOL DESIGNATION HAS THREE CHARACTERS: -FIRST CHARACTER IS A LETTER INDICATING THE STR -SECOND CHARACTER IS A LETTER INDICATING THE F -THIRD CHARACTER IS A NUMERIC INDICATING THE S	UCTURAL BACKUP SYSTEM. PARTITION TYPE. IRUCTURE WIDTH.	 14.3. WHERE WALLS AND OTHER ASSEMBLIES ARE TO BE CONSTRUCTED WHILE EXPOSED TO WEATHER, GLASS-MAT FACED GYPSUM BOARD SHALL BE SUBSTITUTED FOR THE SCHEDULED GYPSUM BOARD. 15. GYPSUM BOARD REQUIREMENTS
REFER TO LEGEND BELOW. STRUCTURAL BACKUP NUMERIC CHARACTER STUD WIDTH W= WOOD STUD S= COLD FORMED S= COLD FORMED M= C.M.U. C= CONCRETE 1 1/2" M= C.M.U. C= CONCRETE 6 6" 6" 8 8" 10 10" 12 10" 10" 10" WHERE PARTITION WALL TYPES ARE INDICATED, THE PAR PARTITION CHANGES DIRECTION OR A DIFFERENT PARTITION ALL INTERIOR STUD FRAMING/ C.M.U. TO EXTEND TO UNDI	CMU CONCRETE WIDTH WIDTH	 a. ALL FIRE RESISTANCE RATED WALLS TO USE TYPE 'X' b. ALL FIRE RESISTANCE RATED CEILINGS TO USE TYPE 'C' c. WHERE MOISTURE RESISTANT GYPSUM BOARD OCCURS ON FIRE RATED ASSEMBLIES, USE COMBINATION FIRE RESISTANCE RATED/ MOLD AND MOISTURE RESISTANCE RATED GYPSUM BOARD FOR THE APPROPRIATE APPLICATION (I.E. TYPE 'X' OR 'C') d. AT OCCUPIED AREAS OR AT GYP. BD. SCHEDULED TO RECEIVE FINISHES, GYP. BD. SHALL RECEIVE LVL. 4 FINISH, ALL OTHER AREAS TO RECEIVE LVL. 2 FINISH. e. ALL CURVED SURFACES TO RECEIVE LEVEL 5 FINISH. 20. CONTINUE WALL FINISH MATERIAL TO MINIMUM 4" ABOVE SUSPENDED CEILINGS, U.N.O. WHERE NO CEILING IS INDICATED CONTINUE FINISH TO UNDERSIDE OF ROOF DECK, U.N.O. 20.1. ALL WALLS SCHEDULED TO RECEIVE SOUND INSULATION TO SHALL HAVE GYP. BD. AND INSULATION EXTEND TO UNDERSIDE OF ROOF DECK. 20.2. ALL WALLS WHERE SOUND INSULATION IS NOT SCHEDULED ARE PERMITTED TO HAVE GYP. BD. TERMINATE 4" MIN. ABOVE THE FINISH CEILING, U.N.O.
NOT INDICATE EXACT CONSTRUCTION CONDITIONS OR GE	EOMETRY.	THE WALL.
FULLY CONSTRUCT ALL FIRE RESISTANCE RATED ASSEMENON RATED CONSTRUCTION.	BLIES PRIOR TO CONSTRUCTION OF ADJACENT	22. AT ALL FIRE RESISTANCE RATED CONSTRUCTION, RECESSED FIXTURES SHALL BE INSTALLED SUCH THAT THE REQUIRED FIRE RESISTANCE WILL NOT BE REDUCED PER MBC SECTION 713.3.2, I.E. FIRE RESISTANCE RATED NICHE, HOUSING, ETC.
RESISTANCE RATING.		23. REFER TO STRUCTURAL DRAWINGS FOR COORDINATION OF ALL SHEAR WALL LOCATIONS, CONTRACTOR TO CONFIRM ADDITIONAL BLOCKING AND/OR FASTENING REQUIREMENTS WITH STRUCTURAL DRAWINGS.
 a. FIRE RESISTANCE RATED WALLS SHALL BE INSTALLE NOTED OTHERWISE. b. SMOKE RESISTANCE RATED WALLS SHALL BE INSTAL PASSAGE OF SMOKE" UNI FSS NOTED OTHERWISE. 	ICTURE AND BE SEALED AS FOLLOWS, D WITH LISTED FIRE RATED SEALANT UNLESS LED WITH LISTED SEALANT TO "LIMIT THE	24. "METAL STUDS" INDICATED ON THIS SHEET FOR INTERIOR PARTITIONS REFER TO THOSE SPECIFIED IN SECTION 09 22 16 / NON-STRUCTURAL METAL FRAMING. REFER TO SPECIFICATIONS FOR ADDITIONAL CRITERIA SUCH AS STUD SPACING, MINIMUM GAUGE OF METAL AND PERMISSIBLE DEFLECTION LIMITS.
 c. NON-FIRE RESISTANCE RATED WALLS SHALL BE INST THE TOP AND BOTTOM STUDS/ TRACKS. INSULATION AT HEAD CONDITIONS AT FLOOR/ROOF DECK a. FIRE RESISTANCE RATED WALLS SHALL USE MINERAL b. NON-FIRE RESISTANCE RATED WALLS REQUIRING SO 	ALLED WITH ACOUSTICAL SEALANT U.N.O., AT L WOOL INSULATION. UND ATTENUATION SHALL USE SOUND	25. WALL TYPES ARE TITLED TO GENERALLY DESCRIBE AN ASSEMBLY'S FIRE-RESISTIVE "CAPABILITY". IN SOME CASES, ARCHITECT MAY HAVE EMPLOYED A GIVEN WALL TYPE FOR ITS SOUND CONTROL OR OTHER PROPERTIES. THUS IT IS POSSIBLE THAT WALL TYPES CHOSEN MAY PROVIDE GREATER F.R.R. CAPABILITY THAN ACTUALLY REQUIRED BY BUILDING CODE. UTILIZE WALL TYPES INDICATED BY FLOOR PLAN CALL-OUTS.
ATTENUATION BLANKETS (SAB). FOR WALLS INDICATED TO RECEIVE SOUND ATTENUATION BLANKETS TO FULL HEIGHT OF PARTITION UNLESS NOTED SET IN A CONTINUOUS BED OF ACOUSTICAL SEALANT.	I BLANKETS, EXTEND SOUND ATTENUATION OTHERWISE. FLOOR STUD/ TRACKS TO BE	 26. CONTACT ARCHITECT WHERE WALLS/PARTITIONS LACK A WALL TYPE CALL-OUT. 27. "STC" REFERS TO SOUND TRANSMISSION CLASS; A RATING SYSTEM THAT DESCRIBES THE ABILITY OF AN ASSEMBLY TO REDUCE THE TRANSMISSION OF SOUND. CONFIGURE SOUND-RATED WALL ASSEMBLIES
FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS AND SMOK INSIDE FACE OF THE EXTERIOR WALL AND ROOF/ FLOOR S THROUGH SOFFITS AND CONCEALED SPACES.	E BARRIERS SHALL EXTEND AND SEAL TO THE SHEATHING OR DECK, INCLUDING EXTENSIONS	 28. "SAB" REFERS TO SOUND ATTENUATION BATTS SPECIFIED IN SECTION 07 21 00/ 09 29 00 WHERE SAB ARE INDICATED. THEY SHALL EXTEND CONTINUOUSLY FROM FLOOR TO STRUCTURE ABOVE. U.N.O
ALL PENETRATIONS INTO AND/OR THROUGH A FIRE RATED LISTED FIRE-STOP OR MEMBRANE PENETRATION SYSTEM FIRE-STOP ASSEMBLIES, TO INCLUDE TYPE OF PRODUCT, THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO IN PROVIDE AND INSTALL LISTED FIRE RATED AND/OR SMOKI	D ASSEMBLY MUST BE PROTECTED WITH A . THE GENERAL CONTRACTOR WILL SUBMIT ALL ASSEMBLY AND INSTALLATION DETAILS, TO INSTALLATION. E DAMPERS AT MECHANICAL PENETRATIONS	 29. HEAD-OF-WALL FIRESTOPPING AND SEALING OF THRU-WALL PENETRATIONS: REFER TO SECTION 07 84 00 / FIRESTOPPING. 30. ACOUSTICAL SEALANTS: SPECIFIED IN SECTION 07 92 00/ 09 29 00. 31. FIRE RESISTANCE RATING SIGNAGE: REFER TO SIGNAGE AND CONTROL NOTES, SHEET CS-003.
OF FIRE RESISTANCE RATED ASSEMBLIES PER THE 2013 N	11/10, U.N.O.	32. STANDARD AND BARRIER FREE MOUNTING HEIGHTS: REFER TO SHEET CS-003 FOR COORDINATION OF BLOCKING HEIGHTS.
NSTRUCTION NSTRUCTION NSTRUCTION NSTRUCTION NSTRUCTION NSTRUCTION NSTRUCTION S'X3'X ANGLE STAGG SIDES EXTER COVER PEMB FIBERO LINER BY PEI NTERI NTERI NTERI PEMB	FILL GAP WITH INSULATION EXPANSION JO SUPPORT RAKE CLIP EXPANSION JO RUBBER MEMB AL WOOL 8" (WET) HILTI CFS-SP TOP JT. SPRAY TO LETELY COVER MINERAL & OVERLAP CMU MIN. 1/2" I2 GA.x12" LONG STL. E FASTEN AT 24" O.C SERED ON OPPOSITE OF WALL NIOR METAL PANEL WALL RING GIRT SLASS INSUL. W/FABRIC FACING/VAPOR BARRIER MB MANF. OR METAL LINER PANEL COLUMN	BASIS OF DESIGN: NUCOR EJ3005 - TRAVERSE COSTRUCTION JOINT CONSTRUCTION JOINT COVER RAKE ANGLE 3/4" TAPE MASTIC BETWEEN ROOF PANEL & RAKE ANGLE 3/4" TAPE MASTIC BETWEEN TRIM & PANEL METAL ROOF DECK MINERAL WOOL 5"X3"Y12 GAX 22" LONG STL. ANGLE FASTEN AT 24" O.C. STAGGERED ON OPPOSITE SIDES OF WALL MIN. 1/8" (MET) HUTI CFS.SP FIRESTOP JT. SPRAY TO COMPLETELY COVER MINERAL WOOL & OVERLAP CANUMIN. 1/2" CUT TOP COURSE TO FIT BOND BEAM WI REINF., REFER TOSTRUCTURAL HORIZ. JOINT REINF. @16"O.C. 8" CMU VERTICAL REINFORCING, GROUTED SOLD. REFER TO STRUCTURAL
2HR. F	ATED 8" CMU	C.M.U FIRE FIRE SOUND ATTENUATION
		MARK SIZE RATING TEST STC W/O SAB SAB STC W/ SAB TEST

WALLBOARD (I.E. MOISTURE-RESISTANT, TILE-BACKER, ETC) BASED ON THEIR LOCATION AND

ACCORDING TO REQUIREMENTS OF SECTION 09 29 00/ GYPSUM BOARD.

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Key Plan:

Client:

No Scale

GLADWIN CITY COUNTY TRANSIT

Project: GĹADWIN TRANSPORTATION MAINTENANCE BLDG. ADDITION

621 WEAVER CT GLADWIN, MI

Seal:

Issued For Date 4/28/25 **BIDS/PERMITS**

AM Drawn:

ΤM Checked: ΤM Approved:

Sheet Title: WALL TYPES

- - NCMA TEK 13-1C - - NCMA TEK 13-1C 46-56 46-56 Project Number:

MA8 7 5/8" 2 HR U905

MA10 9 5/8" 2 HR U905

CMU WALL- 2 HR. FIRE RATED (FULL HEIGHT 1 1/2" = 1'-0" REFER TO HILTI EJ: 597993a

CONSTRUCTION JOINT COVER: BASIS OF DESIGN - NUCOR BUILDING GROUP, EJ3305

Sheet Number:

521558

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CEILING SCHEDULE

REMARKS

REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"

DESCRIPTION MARK MLP METAL LINER PANEL

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No Scale

Client: GLADWIN CITY COUNTY TRANSIT

Project: GLADWIN TRANSPORTATION MAINTENANCE BLDG. ADDITION

621 WEAVER CT

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Sheet Title: REFLECTED **CEILING PLAN**

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- ALL CEILING HEIGHTS ARE FINISH DIMENSIONS.
- COORDINATE SIZE AND LOCATION OF ALL ACCESS PANELS WITH MECHANICAL AND ELECTRICAL DRAWINGS. ARCHITECT TO FIELD VERIFY LOCATIONS. TAKE ALL MEP AS CLOSE TO ROOF DECK AS POSSIBLE
- U.N.O.
- REFER TO SPECIFICATIONS MANUAL FOR ADDITIONAL INFORMATION

GENERAL STRUCTURAL NOTES

1. ALL CONSTRUCTION SHALL COMPLY FULLY WITH THE APPLICABLE PROVISIONS OF MIOSHA, THE MICHIGAN BUILDING CODE, LATEST EDITION, AND THE LOCAL GOVERNING CODE, LATEST EDITIONS, AND ALL REQUIREMENTS SPECIFIED IN THE CODES SHALL BE ADHERED TO AS IF THEY WERE CALLED FOR OR SHOWN ON THE DRAWINGS. THIS SHALL NOT BE CONSTRUED TO MEAN THAT ANY REQUIREMENTS SET FORTH ON THE DRAWING MAY BE MODIFIED BECAUSE THEY ARE MORE STRINGENT THAN THE CODE REQUIREMENTS OR BECAUSE THEY ARE NOT SPECIFICALLY REQUIRED BY CODE.

OFFICE DESIGN LOADS: LIVE LOADS:

ROOFS - UNIFORM SNOW LOAD	32 PSF
(ADDITIONAL LOADING DUE TO DRIFTING,	UNBALANCED, AND SLIDING SNOW)
	,
WIND DESIGN DATA:	
BASIC WIND SPEED (3-SECOND GUST):	115 MPH
WIND EXPOSURE	
	-

EAST-WEST DIRECTION:	В
NORTH-SOUTH DIRECTION:	В
INTERNAL PRESSURE COEFFICIENT:	+/- 0.18
EARTHQUAKE DESIGN DATA:	
SEISMIC IMPORTANCE FACTOR (le):	1.0 (RISK CATEGORY II)
MAPPED SPECTRAL RESPONSE ACCELERATIONS	3
SHORT PERIOD (Ss):	0.051 g
1-SECOND PERIOD (S1):	0.032 g
SITE CLASS:	D
DESIGN SPECTRAL RESPONSE ACCELERATIONS	
SHORT PERIOD (SDS):	0.054 g
1-SECOND PERIOD (SD1):	0.052 g
SEISMIC DESIGN CATEGORY:	A
BASIC SEISMIC-FORCE-RESISTING SYSTEM(S)	
EAST-WEST DIRECTION:	BUILDING FRAME SYSTEM
NORTH-SOUTH DIRECTION:	BUILDING FRAME SYSTEM
RESPONSE MODIFICATION FACTOR(S)	
EAST-WEST DIRECTION (R):	3

NORTH-SOUTH DIRECTION (R): ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE

- PRIOR TO SUBMITTING PROPOSAL, VERIFY ALL CONDITIONS GOVERNING OR AFFECTING THE STRUCTURAL WORK. OBTAIN AND VERIFY ALL DIMENSIONS TO ENSURE THE PROPER FIT AND LOCATION OF THE STRUCTURAL WORK, TAKE ADDITIONAL DIMENSIONS AS REQUIRED, REPORT TO THE ENGINEER ANY AND ALL CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE WORK, FAMILIARIZE YOURSELF WITH THE ACTUAL CONDITIONS OF THE STRUCTURAL WORK, ACCESS TO THE SITE, AVAILABLE STORAGE SPACE, FACILITIES AND OBSTRUCTIONS THAT MAY BE ENCOUNTERED DURING THE PROGRESS OF WORK.
- 3. CONTRACTOR TO FURNISH ALL NECESSARY LABOR, MATERIAL, EQUIPMENT AND FACILITIES TO FURNISH, FABRICATE AND PERFORM THE REQUIRED STRUCTURAL WORK.
- 4. ALL WORK SHOWN ON THESE DRAWINGS MAY BE CHECKED BY AN INDEPENDENT TESTING AGENCY RETAINED BY OWNER TO ENSURE COMPLIANCE WITH THE REQUIREMENTS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ACCESS AS REQUIRED FOR TESTING PURPOSES.
- 5. CONTRACTOR SHALL MAKE ALL NECESSARY FIELD VISITS FOR INSPECTION, MEASUREMENTS AND VERIFICATION OF EXISTING CONDITION OF BUILDING.
- 6. THE GENERAL STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS AND SPECIFICATIONS. SHOULD CONFLICTS EXIST BETWEEN THE DRAWINGS, SPECIFICATION, AND/OR THE GENERAL STRUCTURAL NOTES, THE STRICTEST PROVISION AS DETERMINED BY THE ENGINEER SHALL GOVERN.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF TEMPORARY BRACING, GUYS AND/OR TIE-DOWNS AS NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT
- 8. WORK THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, SITE AND ELECTRICAL DRAWINGS.
- 9. USE OF ENGINEERING DRAWINGS AS ERECTION DRAWINGS BY THE CONTRACTOR IS STRICTLY PROHIBITED.

SITE PREPARATION

- 1. AT THE START OF EARTHWORK OPERATIONS, ALL SURFACE VEGETATION SHALL BE CLEARED AND THE EXISTING TOPSOIL AND ANY OTHER ORGANIC SOILS SHALL BE REMOVED IN THEIR ENTIRETY FROM BELOW THE PROPOSED BUILDING AND PAVEMENT AREAS. EXISTING RANDOM CONCRETE AND OTHER DEBRIS SHALL BE REMOVED FROM WITHIN THE BUILDING AREA.
- 2. THE SUB-GRADE SHOULD BE THOROUGHLY PROOF-ROLLED WITH A HEAVY RUBBER-TIRED VEHICLE SUCH AS A LOADED SCRAPER OR LOADED DUMP TRUCK. ANY AREAS THAT EXHIBIT EXCESSIVE PUMPING AND YIELDING DURING PROOF-ROLLING SHOULD BE STABILIZED BY AERATION, DRYING AND COMPACTION IF WEATHER CONDITIONS ARE FAVORABLE, OR REMOVAL AND REPLACEMENT WITH ENGINEERED FILL.
- 3. ALL EXCAVATIONS ARE SUBJECT TO THE APPROVAL OF THE OWNER'S REPRESENTATIVE, WHO SHALL BE CONSULTED WHEN POOR SOIL, WATER, OBSTRUCTIONS, PIPING, EXISTING FOOTINGS, EXCAVATIONS, ETC.. ARE ENCOUNTERED.

FOOTINGS & FOUNDATIONS

- 1. CONTRACTOR SHALL VERIFY ALL CONDITIONS, INCLUDING UNDERGROUND UTILITIES, AND FIELD MEASUREMENTS AT JOB SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- 2. PROVIDE ALL NECESSARY SHEETING, SHORING, BRACING, ETC. AS REQUIRED FOR EXCAVATIONS TO PROTECT SIDES OF EXCAVATIONS AND ADJACENT STRUCTURES.
- 3. CONTRACTOR SHALL COMPLY FULLY WITH THE REQUIREMENTS OF MIOSHA, OTHER REGULATORY AGENCIES AND THE OWNER'S SITE-SPECIFIC SAFETY PLAN AND REGULATIONS FOR SAFETY PROVISIONS.
- 4. BOTTOM OF FOOTING ELEVATIONS NOTED ON PLAN ARE MINIMUM ELEVATIONS. IN ALL CASES, FOOTINGS ARE TO BEAR ON UNDISTURBED NATURAL SOILS OR ENGINEERED FILL HAVING A MINIMUM NET ALLOWABLE BEARING CAPACITY OF 2500 PSF.
- 5. FOOTINGS SHALL BE CENTERED UNDER COLUMNS AND WALLS UNLESS SPECIFICALLY DETAILED OTHERWISE ON THE DRAWINGS.
- 6. NO FOOTINGS OR SLABS SHALL BE PLACED ON OR AGAINST SUB-GRADE CONTAINING FREE WATER, FROST OR ICE. SHOULD WATER OR FROST, HOWEVER SLIGHT, ENTER A FOOTING EXCAVATION AFTER SUB-GRADE APPROVAL, THE SUB-GRADE SHALL BE RE-INSPECTED BY THE TESTING LABORATORY AFTER REMOVAL OF WATER OR FROST.
- 7. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY FROST OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUB-GRADE BEFORE AND AFTER PLACING OF CONCRETE UNTIL THE CONCRETE HAS REACHED ITS' DESIGN STRENGTH.
- 8. ALL FOUNDATION BEARING SOILS SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER. THE TESTING SHALL INCLUDE, BUT NOT BE LIMITED TO, IDENTIFICATION OF SOILS AT AND BELOW THE FOUNDATION BEARING LEVEL, AND THE ALLOWABLE BEARING CAPACITY.
- 9. CONTRACTOR SHALL FURNISH ALL REQUIRED DEWATERING EQUIPMENT TO MAINTAIN A DRY EXCAVATION UNTIL BACKFILL IS COMPLETE.
- 10. THE FOUNDATION DESIGN IS BASED ON THE SOILS INVESTIGATION REPORT PREPARED BY PREIN & NEWHOF, DATED NOVEMBER 24, 2021.

BACKFILLING

- ENGINEERED FILL WITH ENGINEER'S APPROVAL.
- 2. BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF ITS' MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR METHODS (ASTM D1557), IN LIFTS NOT EXCEEDING 12-INCHES IN LOOSE THICKNESS.
- 3. FROZEN MATERIAL SHALL NOT BE USED AS FILL, NOR SHALL FILL BE PLACED ON FROZEN SUB-GRADE.
- FLOOR SLABS.
- 5. PLACE BACKFILL AGAINST BOTH SIDES OF GRADE BEAMS AND FOUNDATIONS AT EQUAL ELEVATIONS OF FILL, EXCEPT AS SHOWN ON THE DRAWINGS.

CAST-IN-PLACE CONCRETE

- 1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301- LATEST REVISION, REQUIREMENTS NOTED ON THE DRAWINGS.
- 2. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH (f 'c) AS NOTED BELOW: A. INTERIOR FOOTINGS AND FOUNDATIONS: 4000 psi B. INTERIOR SLAB ON GRADE: 4000 psi C. INTERIOR SUPPORTED SLABS: 4000 psi D. EXTERIOR CONCRETE EXPOSED TO WEATHER: 4500 psi E. EXTERIOR FOUNDATIONS NOT EXPOSED TO WEATHER: 4000 psi F. GRADE WALLS: 4000 psi
- 3. ALL EXTERIOR CONCRETE INCLUDING WALLS SHALL BE AIR-ENTRAINED 5% +/- 1%.
- 5. UNLESS NOTED OTHERWISE, MINIMUM CONCRETE CONCRETE CAST AGAINST EARTH CONCRETE EXPOSED TO EARTH OR WEATHER CONCRETE NOT EXPOSED TO EARTH OR WEATHER
- 6. ALL REINFORCING SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60 (fy = 60,000 psi)
- AND HAVE A MINIMUM SIDE AND END LAP OF 8 INCHES.
- RESULTS SHALL ALSO BE SUBMITTED IF APPROPRIATE.
- EDITION.
- INDICATE ALL OPENINGS, SLEEVES, CURBS AND CONCRETE DIMENSIONS IN ACCORDANCE WITH ACI 315.
- 11. LAPS, ANCHORAGES AND SPLICES SHALL COMPLY WITH THE REQUIREMENTS OF ACI 318-LATEST EDITION, DETAILS AND AS SHOWN ON THE REINFORCING STEEL SHOP DRAWINGS.
- THEM 24 INCHES BEYOND CORNERS.
- THROUGH PIERS.
- THE MEMBER MINIMUM 3/4".

MATERIAL FOR BACKFILL OR ENGINEERED FILL REQUIRED TO ACHIEVE DESIGN GRADES SHOULD CONSIST OF NON-ORGANIC SOILS. THE ON-SITE SOILS THAT ARE FREE OF ORGANIC MATTER AND DEBRIS MAY BE USED FOR

4. DO NOT PLACE BACKFILL AGAINST FOUNDATION WALLS UNTIL BASEMENT FLOOR LEVEL AND FIRST FLOOR LEVEL SLABS ARE IN PLACE AND HAVE REACHED 75% OF THEIR SPECIFIED DESIGN STRENGTH. SHORE AND BRACE WALLS AS REQUIRED IF BACKFILLING OPERATIONS ARE TO BE CARRIED OUT PRIOR TO PLACEMENT OF

6. CRUSHED SLAG USED AS BACKFILL SHALL BE AGED, ENVIRONMENTALLY-SAFE PROCESSED BLAST FURNACE

"SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING", EXCEPT AS MODIFIED BY STRUCTURAL

4. ALL EXTERIOR CONCRETE EXPOSED TO WEATHER SHALL HAVE A MAXIMUM WATER TO CEMENT RATIO OF (W/C)

COVER SHALL	BE:
	3-INCHES
2	2-INCHES
THER	3/4-INCHES

WELDED WIRE FABRIC SHALL BE FURNISHED IN FLAT SHEETS AND SHALL CONFORM TO ASTM A185 (FY = 75 KSI)

8. THE CONTRACTOR SHALL SUBMIT THE CONCRETE MIX DESIGN(S) TO THE ENGINEER FOR REVIEW. PROPORTION MIX DESIGNS AS DEFINED IN ACI 301 SECTION 4. THE SUBMITTAL SHALL INCLUDE AS A MINIMUM CEMENT TYPE AND SOURCE, CEMENT CUBE STRENGTH, AGGREGATE GRADATIONS, WATER TESTS, AD-MIXTURE CATALOG INFORMATION AND CYLINDER STRENGTH TEST RESULTS FOR THE CONCRETE. THE MIX DESIGN HISTORICAL

ALL REINFORCEMENT TO BE DETAILED, FABRICATED AND ERECTED ACCORDING TO THE ACI STANDARDS: "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT", ACI 315 - LATEST REVISION AND "MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES", ACI 315R - LATEST

10. THE CONTRACTOR SHALL PREPARE AND SUBMIT REINFORCEMENT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. THE SHOP DRAWINGS SHALL CLEARLY SHOW ALL REINFORCEMENT LENGTHS AND BENDS, LOCATIONS OF ALL BARS, VIBRATION AND CONSTRUCTION JOINTS. THE DRAWINGS SHALL ALSO

CHAPTER 25. LOCATIONS AND SPLICES SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION JOINT LOCATIONS.

12. PROVIDE DOWELS OF SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT AT ALL COLUMNS AND WALLS.

13. UNLESS OTHERWISE SHOWN OR NOTED, AS A MINIMUM, PROVIDE TWO #5 BARS (ONE EACH FACE) AROUND UNFRAMED OPENINGS IN SLABS AND WALLS. PLACE BARS PARALLEL TO SIDES OF OPENINGS AND EXTEND

14. HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS WITH LAPS COMPLYING WITH THE REQUIREMENTS OF ACI 318-LATEST EDITION CHAPTER 25. UNLESS DETAILED OTHERWISE. CORNER BARS SHALL BE PROVIDED AT ALL CHANGE IN WALL DIRECTIONS AND SHALL BE OF THE SAME SIZE AND SPACING AS THE HORIZONTAL STEEL. EACH CORNER BAR LEG TO PROVIDE A LAP COMPLYING WITH THE REQUIREMENTS OF ACI 318-LATEST EDITION CHAPTER 25. SPLICE UNLESS DETAILED OTHERWISE. EXTEND ALL HORIZONTAL WALLS REINFORCING

15. ALL CONSTRUCTION JOINTS SHALL BE FURNISHED WITH KEYWAY CENTERED ON MEMBERS. WHERE THE SIZE OF KEY IS NOT SHOWN ON THE DRAWINGS, THE KEY DEPTH SHALL BE 10% OF THE CROSS SECTION DIMENSION OF

- 15. ALL CONSTRUCTION JOINTS SHALL BE FURNISHED WITH KEYWAY CENTERED ON MEMBERS. WHERE THE SIZE OF KEY IS NOT SHOWN ON THE DRAWINGS, THE KEY DEPTH SHALL BE 10% OF THE CROSS SECTION DIMENSION OF THE MEMBER - MINIMUM 3/4".
- 16. ANCHOR BOLTS (FURNISHED BY STRUCTURAL STEEL CONTRACTOR) SHALL BE SET USING A TEMPLATE TO WITHIN 1/8" TOLERANCE IN ANY PLAN DIRECTION IN PIERS, FOOTINGS AND FOUNDATION WALLS, WITH THE MINIMUM PROJECTION AND EMBEDMENT LENGTHS AS INDICATED ON THE DRAWINGS.
- 17. PROVIDE 3/4" CHAMFER STRIP AT ALL EXPOSED CORNERS OF CONCRETE WALLS AND PIERS.
- 18. LOCATE ALL SLEEVES, OPENINGS, EMBEDDED ITEMS, ETC., AS INDICATED ON THE DRAWINGS. THE CONCRETE CONTRACTOR SHALL CHECK WITH ALL OTHER TRADES TO MAKE SURE THE SLEEVES, OPENINGS AND EMBEDDED ITEMS THAT ARE TO BE PROVIDED AND SET BY THEM ARE IN PLACE PRIOR TO PLACING OF CONCRETE IN THE AREA INVOLVED.
- 19. ALL INTERIOR SLABS ON GRADE SHALL BE PLACED ON A VAPOR BARRIER WITH A MINIMUM OF 4-INCHES CLEAN SAND. MINIMUM REINFORCEMENT SHALL BE IN ACCORDANCE WITH ENGINEERING DATA REPORT CRSI NUMBER 37, "REINFORCING STEEL IN SLAB ON GRADE" OR AS DETAILED. ALL EXTERIOR SLABS ON GRADE SHALL BE PLACED ON A MINIMUM OF 4-INCHES CLEAN SAND. MINIMUM REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI 318 SECTION 24.4 - SHRINKAGE AND TEMPERATURE REINFORCEMENT, OR AS DETAILED.
- 20. CONTRACTORS SHALL OBTAIN APPROVAL FROM THE ENGINEER, PRIOR TO PLACING OPENINGS OR SLEEVES, NOT SHOWN ON THE DRAWINGS, THROUGH ANY STRUCTURAL MEMBERS, ROOF, WALLS OR FOUNDATIONS. REVIEW ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR BASES, OPENINGS, SLEEVES, ANCHORS, INSERTS, CONDUITS, RECESSES AND OTHER DEVICES IN CONCRETE WORK BEFORE CASTING CONCRETE.
- 21. PROVIDE POCKETS OR RECESSES IN CONCRETE WORK FOR STEEL COLUMNS AND BEAMS AS REQUIRED AND / OR AS CALLED FOR IN THE SPECIFICATIONS EVEN IF NOT SHOWN ON THE DRAWINGS. PROVIDE CONCRETE FILL AFTER STEEL ERECTION TO SEAL OPENINGS.
- 22. REFER TO ARCHITECTURAL DRAWINGS FOR SLAB RECESSES AND/OR FLOOR FINISH MATERIALS.
- 23. WELDING OF REINFORCING STEEL IS PROHIBITED UNLESS SPECIFICALLY DETAILED. WELDING SHALL CONFORM TO AWS D1.4 SPECIFICATION, LATEST EDITION.
- 24. CONCRETE CONTRACTOR SHALL INCLUDE IN HIS ESTIMATE ADDITIONAL CONCRETE QUANTITY AS REQUIRED TO COMPENSATE FOR DEFLECTIONS OF METAL DECK AND TO PROVIDE A LEVEL CONCRETE SURFACE. REFER TO STRUCTURAL STEEL AND METAL DECK NOTES FOR ADDITIONAL CONSIDERATIONS.
- 25. THE CONCRETE SHALL BE THOROUGHLY COMPACTED BY VIBRATION SUPPLEMENTED BY SPADING, PUDDLING OR AGITATION, TO PREVENT HONEYCOMBING AND TO ENSURE THE ELIMINATION OF VOIDS. VIBRATION MUST BE DIRECT ACTION IN THE CONCRETE AND NOT AGAINST FORMS OR REINFORCEMENT. HONEYCOMBING, VOIDS AND LARGE AIR POCKETS WILL NOT BE ACCEPTABLE.
- 26. LOCATIONS OF CONTRACTION JOINTS ARE SHOWN ON THE PLAN DRAWING. THE JOINTS SHOWN MAY SERVE AS CONSTRUCTION JOINTS IF CONVENIENT FOR THE CONSTRUCTION SEQUENCE. THE LOCATION OF ANY ADDITIONAL CONSTRUCTION JOINTS PROPOSED BY THE CONTRACTOR SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER. ALL CONCRETE SLABS AND WALLS WITH CONSTRUCTION JOINTS SHALL BE PLACED PER ACI 302.1R.
- 27. THE USE OF WATER-SOLUBLE CHLORIDE ION SHALL NOT BE USED UNLESS APPROVED BY THE ENGINEER. AS AN ALTERNATIVE TO THE ABOVE, THE CONTRACTOR MAY SUBMIT A CONCRETE MIX DESIGN FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE ALTERNATE MIX DESIGN SHALL BE REVIEWED FOR CONFORMANCE TO '02 UBC.

STRUCTURAL STEEL

- 1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATION:
 - * WIDE FLANGE AND WT SHAPES A992 * HSS RECT. - A500 GRADE C (fy = 46 KSI)
 - * HSS ROUND A500 GRADE C (fy = 42 KSI)
 - * PIPE A53 GRADE B (fy = 35 KSI)
 - * HP SHAPES A572 GR. 50 * ALL OTHER SHAPES AND PLATES - A36
- 2. THE FABRICATOR/ERECTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW, ENGINEERED AND CHECKED DRAWINGS SHOWING SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL.
- 3. BEAM CONNECTIONS SHALL BE STANDARD TWO ANGLE WEB CONNECTIONS CAPABLE OF SUPPORTING 50% OF THE ALLOWABLE UNIFORM LOAD FROM THE ALLOWABLE LOADS ON BEAM TABLES IN THE AISC CODE, UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.
- 4. ALL CONNECTIONS NOT SPECIFICALLY DETAILED, SHALL BE DESIGNED AND DETAILED BY THE FABRICATOR. DETAILING SHALL BE PERFORMED USING RATIONAL ENGINEERING DESIGN AND STANDARD PRACTICE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE GENERAL DETAILS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND DO NOT INDICATE THE REQUIRED NUMBER OF BOLTS OR WELD SIZES, UNLESS SPECIFICALLY NOTED.
- 5. ALL CONNECTIONS SHALL BE SHOP WELDED IN ACCORDANCE WITH LATEST AWS SPECIFICATION USING E70XX ELECTRODES AND FIELD BOLTED WITH ASTM A325 OR A490 BOLTS. ALL A325 AND A490 BOLTS ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS."
- 6. EXCEPT AS NOTED ON THE DRAWINGS, STRUCTURAL STEEL BOLTS SHALL BE ASTM A325, 3/4" DIAMETER. ALL VERTICAL BOLTS ARE TO BE INSTALLED "HEAD UP" UNLESS SPECIFICALLY NOTED. IF A BOLT CANNOT BE INSTALLED "HEAD UP", THE THREAD IS TO BE "SPOILED" AFTER THE BOLT HAS BEEN PROPERLY TIGHTENED AND THEN INSPECTED BY THE TESTING AGENCY.
- 7. HIGH STRENGTH BOLT INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF AISC AND THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS." PROVIDE FULLY PRETENSIONED JOINTS AT CONNECTIONS OF BRACING, WHERE BOLTS ARE IN TENSION, ARE SUBJECT TO LOAD REVERSALS OR FATIGUE, AND AT MOMENT CONNECTIONS, PROVIDE SLIP-CRITICAL JOINTS AT CONNECTIONS SUBJECT TO FATIGUE AND LOAD REVERSALS, OVERSIZED HOLES, SLOTTED HOLES AND WHERE SLIP AT THE FAYING SURFACES WOULD BE DETRIMENTAL TO THE PERFORMANCE OF THE STRUCTURE. ALL OTHER CONNECTIONS MAY HAVE SNUG-TIGHTENED CONNECTIONS UNLESS OTHERWISE NOTED.
- 8. ALL SIMPLE SHEAR CONNECTIONS SHALL BE CAPABLE OF END ROTATION PER THE REQUIREMENTS OF THE AISC 360 SECTION J1.2.
- 9. ALL ANCHOR RODS SHALL CONFORM TO MINIMUM ASTM F1554 GR. 36.

THE DRAWINGS.

- 10. CONTRACTOR SHALL REFERENCE ARCHITECTURAL DRAWINGS FOR MISC. SHAPES AND PLATES WHICH SHALL BE SHOP-WELDED TO THE STRUCTURAL FRAMING SECTIONS TO MINIMIZE FIELD WELDING.
- 11. ALL FLOOR AND ROOF OPENINGS, UNLESS OTHERWISE NOTED, ARE TO BE FRAMED WITH L5X3X1/4 (LLV). VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH THE TRADE INVOLVED.
- 12. PROVIDE L4X4X1/4 SEATS AT COLUMN WEBS, WHERE REQUIRED FOR SUPPORT OF ROOF AND FLOOR DECKS.
- 13. ALL BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER UP. PROVIDE CAMBERS AS INDICATED ON
- 14. ALL STIFFENER PLATES AND BEARING STIFFENERS ARE TO BE PROVIDED IN PAIRS.
- 15. SHEAR CONNECTORS SHALL BE MANUFACTURED BY NELSON STUD WELDING, DIV. OR ENGINEER APPROVED SUBSTITUTE, AND WELDED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 16. ALL STEEL TO RECEIVE ONE SHOP COAT OF PAINT. OMIT PAINT AT HOLES FOR SLIP CRITICAL-TYPE CONNECTIONS, AT STRUCTURAL STEEL TO BE FIREPROOFED, ENCASED OR IN CONTACT WITH CONCRETE AND ON TOP FLANGE OF BEAMS RECEIVING SHEAR CONNECTORS.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AND SEQUENCES WITH RELATION TO TEMPERATURE DIFFERENTIALS, ESPECIALLY WITH RESPECT TO STRUCTURAL STEEL FRAMING INTO CONCRETE WALLS, BEAMS OR COLUMNS.
- 18. PROVIDE TEMPORARY BRACING AS REQUIRED TO ENSURE STABILITY OF THE STRUCTURE UNDER FULL DESIGN LOADS UNTIL THE PERMANENT BRACING IS IN PLACE. CONTRACTOR SHALL PROVIDE NECESSARY SHORING WHERE REQUIRED DURING CONSTRUCTION.

22. NON-SHRINK GROUT SHALL CONFORM TO "CORPS OF ENGINEERS SPECIFICATION FOR NON-SHRINK GROUT" CRD-C 621-LATEST EDITION. GROUT SHALL BE PREMIXED, NON-SHRINK, NON-CATALYZED NATURAL AGGREGATE GROUT FOR: (1) COLUMN LEVELING PLATES, WHICH ARE NOT BOLTED DOWN BEFORE COLUMN ERECTION, (2) ITEMS SET INTO CONCRETE BLOCKOUTS, DEPRESSIONS, OR TOPPINGS, AND (3) OTHER STRUCTURAL LOAD BEARING APPLICATIONS. THE SEVEN-DAY COMPRESSIVE FOR THE SPECIFIED CONSISTENCY SHALL BE AT LEAST, 7,000 PSI PLASTIC, 6,000 PSI FLOWABLE, AND 5,000 PSI FLUID CONSISTENCY.

5. IN PLANNING THE METHOD OF ERECTION AND DISTRIBUTION OF MATERIAL BEFORE AND DURING ERECTION, THE CONTRACTOR SHALL MAKE FULL ALLOWANCE FOR ANY OBSTRUCTIONS ENCOUNTERED WHICH MAY RESULT FROM WORK PERFORMED BY OTHER TRADES, AS WELL AS THE OPERATIONS OF THE OWNER.

6. IT SHALL BE UNDERSTOOD THAT THERE WILL BE NO EXTRA CHARGE BY THE CONTRACTOR ON ACCOUNT OF ANY OBSTRUCTIONS NOW ON THE SITE OF THE BUILDING.

7. FURNISH AND INSTALL ANY AND ALL NECESSARY TEMPORARY BRACING TO SQUARE AND PLUMB UP ALL WORK, AS REQUIRED, BEFORE BOLTING OR WELDING.

8. IN CASES WHERE MEMBERS DO NOT FIT OR HOLES DO NOT MATCH, THE HOLES SHALL BE REAMED OUT AND THE NEXT LARGER SIZE BOLT INSERTED. IF THE CONNECTION REQUIRES NEW HOLES, THEN NEW HOLES SHALL BE DRILLED. NO SUCH CORRECTIONS SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER'S RESIDENT ENGINEER. BURNING OF HOLES IS STRICTLY PROHIBITED.

ITEMS.

13. PRIOR TO THE COMPLETION OF THE SCOPE OF WORK, INSTALL PERMANENT SUPPORTS TO ALL EXISTING UTILITIES AFFECTED BY WORK AREA AS REQUIRED TO THE SATISFACTION OF THE OWNER.

1. WHEN THE STRUCTURAL STEEL IS DELIVERED, IT SHALL BE STACKED OFF THE GROUND. CARE SHALL BE TAKEN IN HANDLING AND STACKING THE MEMBERS TO PREVENT BUCKLING, KINKING OR DISTORTION, RAIL AND CARRIER SHIPMENTS SHALL HAVE SUFFICIENT AND SATISFACTORY DUNNAGE TO PREVENT DAMAGE IN TRANSIT.

ERECTION.

1. HIGH STRENGTH BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM DESIGNATION A325 AND SHALL BE USED IN ACCORDANCE WITH "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" LATEST REVISION, BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS.

STRUCTURAL STEEL (CONT.)

19. SHOP AND FIELD TESTING OF WELDS AND OR BOLTS SHALL BE AS FOLLOWS: A. ALL WELDS SHALL BE VISUALLY INSPECTED. 5% AT RANDOM SHALL BE MEASURED. B. FILLET WELDS FOR BEAM AND GIRDER SHEAR CONNECTION PLATES (10% AT RANDOM) SHALL BE CHECKED BY MAGNETIC PARTICLE IN ACCORDANCE WITH ASTM E709 FOR FINAL PASS ONLY. C. ULTRASONICALLY TEST 100% OF ALL FULL-PENETRATION WELDS IN ACCORDANCE WITH AWS D1.1 -SECTION, PART 'F', "ULTRASONIC TESTING (UT) OF GROOVE WELDS' D. CHECK BY CALIBRATED TORQUE WRENCH, 25% OF BOLTS IN EACH FULLY PRETENSIONED CONNECTION JOINT OR SLIP-CRITICAL CONNECTION JOINT, BUT NOT LESS THAN TWO (2) BOLTS PER CONNECTION. E. ULTRASONICALLY TEST 100 % OF ALL PARTIAL-PENETRATION COLUMN SPLICE WELDS IN ACCORDANCE WITH AWS D1.1 - SECTION, PART 'F', "ULTRASONIC TESTING (UT) OF GROOVE WELDS". F. CHECK 100% OF CONTINUITY PLATE FILLET WELDS BY MAGNETIC PARTICLE ON LAST LAYERS IN ACCORDANCE WITH ASTM E709. G. THE OWNER'S TESTING AGENCY SHALL PERFORM ALL SHOP AND FIELD INSPECTION AND TESTING AS

OUTLINED ABOVE. H. THE STRUCTURAL STEEL FABRICATOR AND ERECTOR SHALL SCHEDULE ALL WORK TO ALLOW THE ABOVE TESTING REQUIREMENTS TO BE COMPLETED.

20. STRUCTURAL STEEL SHALL NOT BE ALTERED IN THE FIELD FROM THAT SHOWN ON THE DESIGN DRAWINGS. MISMATCHED HOLES SHALL BE REAMED TO LARGER DIAMETER AND PROPERLY SIZED BOLTS AND WASHERS USED FOR FINAL HOLE SIZE. CUTTING, BURNING OR WELDING NOT SHOWN ON DESIGN DRAWINGS SHALL NOT BE PERFORMED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.

21. ALL STRUCTURAL STEEL SHALL BE DETAILED, SHOP PRIME PAINTED OR HOT-DIPPED GALVANIZED, PIECE MARKED, FURNISHED, FABRICATED AND ERECTED ACCORDING TO THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS", LATEST EDITION AND TO THE AISC "CODE OF STANDARD PRACTICE". HOT DIP GALVANIZED FINISH FOR ALL STEEL MEMBERS EXPOSED TO THE WEATHER.

FABRICATION AND ERECTION

1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC 303-10 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".

2. ALL HOLES SHALL BE DRILLED OR PUNCHED. NO BURNING OF HOLES WILL BE PERMITTED. SLOTTED HOLES MUST HAVE STRAIGHT AND SMOOTH SIDES.

3. HOLES SHALL BE SIZED SUCH THAT THEY ARE $\frac{1}{16}$ "LARGER IN DIAMETER THAN THE SPECIFIED FASTENER. 4. ALL STRUCTURAL MATERIAL INCLUDING BEAMS, ANGLES AND PLATES TO BE FIELD MEASURED AND FIELD FABRICATED.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE CAUSED BY THE ERECTION OF STRUCTURAL STEEL AS HEREIN SPECIFIED. THE CONTRACTOR SHALL REIMBURSE THE OWNER ACTUAL COST OF REPAIR AND OR REPLACEMENT.

10. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE/DEMOLISH AND PROPERLY DISPOSE OF EXISTING STEEL, AS REQUIRED FOR THE INSTALLATION OF NEW STEEL.

11. CONTRACTOR IS RESPONSIBLE TO DESIGN, PROVIDE AND INSTALL NECESSARY SHORING DURING DEMOLITION AND REPLACEMENT OF STRUCTURAL STEEL. THE SHORING PLAN SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MICHIGAN.

12. TEMPORARILY SUPPORT ALL EXISTING UTILITIES IN WORK AREA AS REQUIRED TO COMPLETE SCOPE-OF-WORK

HANDLING OF STEEL

2. MEMBERS WHICH ARE BENT IN FABRICATION OR IN HANDLING SHALL BE STRAIGHTENED OR REPLACED BEFORE

3. ALL DIRT, MUD AND DEBRIS SHALL BE CLEANED FROM STEEL BEFORE ERECTION.

HIGH STRENGTH BOLTS

2. ALL BOLTED CONNECTIONS SHALL USE ONLY STANDARD HOLES; EXCEPT SHORT SLOTS, OVERSIZED HOLES AND LONG SLOTS SHALL BE USED WHERE SPECIFICALLY SHOWN OR CALLED OUT ON THE DESIGN DRAWINGS OR MENTIONED HEREIN. OVERSIZED HOLES, AND SHORT AND LONG SLOTS MUST BE TREATED AS SLIP-CRITICAL TYPE CONNECTIONS. HARDENED WASHERS SHALL BE INSTALLED OVER ALL OVERSIZED HOLES AND SHORT SLOTS IN AN OUTER PLY. A PLATE WASHER OR A CONTINUOUS BAR IS REQUIRED FOR ALL LONG SLOTTED HOLES USED IN AN OUTER PLY.

3. THE TIGHTENING MECHANISM USED SHALL BE THE TURN-OF-THE-NUT METHOD. CONTACT SURFACE SHALL NOT BE PAINTED. IN EACH JOINT OR GROUP OF BOLTS 10% (BUT NOT LESS THAN TWO (2) BOLTS) SELECTED AT RANDOM AND NOT IN UNIFORM PATTERN SHALL BE CHECKED. THIS SHALL BE DONE IN THE PRESENCE OF THE OWNER'S DESIGNATED REPRESENTATIVE. IF BOLTING IS FOUND TO BE INADEQUATE UNDER TEST, ALL BOLTS IN THE DEFECTIVE GROUP SHALL BE CHECKED AT THE CONTRACTOR'S EXPENSE.

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Key Plan:

No Scale

Client: **GLADWIN CITY** COUNTY TRANSIT

Project: GLADWIN TRANSPORTATION MAINTENANCE **BLDG. ADDITION**

621 WEAVER CT GLADWIN, MI

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Sheet Title: STRUCTURAL SPECIFICATIONS

Project Number:

MASONRY

- 1. CONCRETE MASONRY UNITS (CMU) SHALL BE LAID WITH TYPE S OR N MORTAR AND ALL MORTAR SHALL CONFORM TO ASTM C270. MORTAR MAY BE EITHER TYPE M OR S U.N.O. USE PORTLAND CEMENT/LIME FOR MORTAR.
- 2. CONCRETE MASONRY UNIT (CMU) PANELS SHALL HAVE HORIZONTAL JOINT REINFORCEMENT SPACED NOT MORE THAN 16 INCHES ON CENTER, LOCATED IN THE MORTAR BED JOINT, AND EXTENDING THE ENTIRE LENGTH OF THE PANEL, BUT NOT ACROSS EXPANSION JOINTS. LONGITUDINAL WIRES SHALL BE LAPPED A MINIMUM OF 6 IN. AT SPLICES. JOINT REINFORCEMENT SHALL BE PLACED IN THE PANEL. THE REINFORCEMENT SHALL BE PLACED IN THE BED JOINT IMMEDIATELY BELOW AND ABOVE OPENINGS IN THE PANEL. THE REINFORCEMENT SHALL HAVE NOT LESS THAN TWO PARALLEL LONGITUDINAL WIRES OF SIZE W1.7, AND HAVE WELDED CROSS WIRES OF SIZE W1.7.
- 3. CONCRETE MASONRY HAS BEEN DESIGNED IN ACCORDANCE WITH THE TMS 402/ACI 530/ASCE 5 BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES AND TMS 602/ACI 530/ASCE 6 SPECIFICATION FOR MASONRY STRUCTURES.
- 4. ALL CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C-90 GRADE N-1. CONCRETE MASONRY TO HAVE 28-DAY COMPRESSIVE STRENGTH FOR AN AVERAGE OF 3 UNITS OF f'm=1900 psi.
- 5. SPECIAL INSPECTION OF MASONRY CONSTRUCTION IS REQUIRED. REFER TO ACI 530, PART 3 AND MICHIGAN BUILDING CODE 2015, TABLE 1705.3 FOR MINIMUM QUALITY ASSURANCE REQUIREMENTS.

CONCRETE MASONRY UNITS (CMU) SHALL CONFOR	RM TO THE FOLLOWING STANDARDS
HOLLOW LOAD-BEARING UNITS:	ASTM C90
TYPE I, GRADE N	
SOLID LOAD-BEARING UNITS:	ASTM C145
MEDIUM WEIGHT UNITS:	110 TO 125 PCF

REGULAR WEIGHT UNITS:

- 7. POURABLE CONSISTENCY GROUT SHALL BE USED TO FILL CAVITIES AT BEAM, JOIST AND METAL DECK BEARING, AT VERTICAL FILL OF HOLLOW CORES, AND IN BOND BEAMS AND REINFORCED MASONRY BEAMS, PIERS OR COLUMNS. GROUT SHALL CONFORM TO ASTM C476 WITH MINIMUM 28 DAY COMPRESSION STRENGTH OF 3000 PSI.
- 8. STEEL BAR REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60. HORIZONTAL JOINT REINFORCEMENT SHALL BE LADDER OR TRUSS TYPE.

135 PCF

- 9. VERTICAL CELLS CONTAINING REINFORCING AND GROUT SHALL FORM A CONTINUOUS CAVITY, FREE OF MORTAR DROPPINGS.
- 10. VERTICAL REINFORCING SHALL BE FULLY GROUTED IN THE CORES OF THE CONCRETE MASONRY UNITS AND SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS BUT NOT LESS THAN 24 INCHES. THE VERTICAL REINFORCEMENT SHALL BE LAPPED WITH DOWELS OF SAME SIZE AND SPACING WHICH HAVE BEEN PREVIOUSLY INSTALLED IN THE FOUNDATIONS. EMBEDMENT OF DOWELS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318.
- 11. VERTICAL REINFORCING SHALL BE PLACED IN THE CENTER OF THE CELL, UNLESS SPECIFICALLY SHOWN OTHERWISE. ALLOWABLE SPACING TOLERANCE IS $\pm 1/2$ ". THE USE OF REINFORCEMENT BAR POSITIONERS IS REQUIRED.
- 12. GROUTING OF MASONRY WALLS SHALL CONFORM TO THE RECOMMENDED PROCEDURE FOR "LOW LIFT GROUTING" OR "HIGH LIFT GROUTING" AS OUTLINED IN THE NCMA - TEK NOTE #23A - GROUTING FOR CONCRETE MASONRY WALLS.
- 13. LIFTS OF GROUT SHALL BE KEYED 4 INCHES INTO THE PREVIOUS COURSE OF MASONRY BELOW.
- 14. SAMPLING AND TESTING OF MORTAR AND GROUT SHALL BE IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN THE NCMA TEK NOTE #107 LABORATORY AND FIELD TESTING OF MORTAR AND GROUT.
- 15. TESTING OF MASONRY PRISMS SHALL BE IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN THE NCMA-TEK NOTE #22A - PRISM TESTING FOR ENGINEERED CONCRETE MASONRY.
- 16. GRANULAR FILL INSULATION TO BE PERLITE OR OWNER APPROVED EQUIVALENT.
- PROVIDE CONTROL JOINTS IN ABOVE GRADE EXPOSED MASONRY WALLS FOR THE FOLLOWING CONDITIONS:
 A. AT THE PERPENDICULAR WALLS; ONE-HALF CONTROL JOINT SPACING FROM THE CORNERS.
 B. AT CHANGE IN WALL HEIGHT.
 C. AT CHANGE IN WALL THICKNESS.
- D. AT 25'-0" O.C. IN LONG CONTINUOUS WALLS.

SPECIAL INSPECTIONS & TESTS

SPECIAL INSPECTION SHALL MEET THE REQUIREMENTS OF IBC SECTION 1704. SPECIAL INSPECTOR(S) SHALL BE HIRED BY THE OWNER TO PERFORM THE REQUIRED SPECIAL INSPECTIONS. THE NAMES OF PERSONS OR FIRMS WHO ARE TO PERFORM THE SPECIAL INSPECTIONS SHALL BE FORWARDED TO THE BUILDING OFFICIAL FOR APPROVAL. THE SPECIAL INSPECTOR(S) SHALL COMPLETE AND SUBMIT ALL FORMS REQUIRED BUILDING OFFICIAL. 1. THE SPECIAL INSPECTOR(S) SHALL:

- A. OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DRAWING AND SPECIFICATIONS.
 B. FURNISH INSPECTION REPORTS TO THE ENGINEER OF RECORD AND BUILDING DEPARTMENT. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF NOT
- CORRECTED, TO THE ENGINEER AND THE BUILDING DEPARTMENT. C. SUBMIT TO THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT A SIGNED FINAL REPORT STATING THAT THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC.
- 2. SPECIAL INSPECTION NOTES:
- A. CONTINUOUS SPECIAL INSPECTION IS ALWAYS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS SPECIFICALLY NOTED BELOW.
- B. WHERE FABRICATION OF THE STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, CONTINUOUS SPECIAL INSPECTION IS REQUIRED DURING THE PERFORMANCE OF THE WORK EXCEPT AS ALLOWED IN IBC SECTION 1704.2.5 AND UNLESS SPECIFICALLY NOTED BELOW.
- C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE SPECIAL INSPECTOR(S) WITH ADVANCE NOTICE, NO LESS THAN ONE WORKING DAY, OF THE INITIATION OF ANY WORK REQUIRED TO HAVE SPECIAL INSPECTIONS. ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION WILL BE SUBJECT TO REMOVAL.

3. TYPES OF WORK REQUIRING SPECIAL INSPECTIONS ARE:

- A. STRUCTURAL STEEL ELEMENTS OF BUILDINGS AND STRUCTURES AS REQUIRED BY IBC SECTION 1705.2.1 AND AISC 360 SECTION 'N'.
- B. <u>COLD-FORMED STEEL DECK</u> AS REQUIRED BY IBC SECTION 1705.2.2 AND SDI QA/QC.
 C. <u>OPEN-WEB STEEL JOISTS AND JOIST GIRDERS</u> AS REQUIRED BY IBC SECTION 1705.2.3 AND TABLE 1705.2.3, AS FOLLOWS:
- PERIODIC SPECIAL INSPECTION IN COMPLIANCE WITH SJI SPECIFICATIONS, SECTION 2207.1 FOR INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS REQUIRED FOR: a. END CONNECTIONS - WELDING OR BOLTED.
- b. BRIDGING HORIZONTAL OR DIAGONAL. APPLIES TO BOTH STANDARD BRIDGING AND BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1
- D. <u>CONCRETE CONSTRUCTION</u> AS REQUIRED BY IBC SECTION 1705.3 AND TABLE 1705.3, AS FOLLOWS:
 a. <u>WELDING OF REINFORCING BARS</u> AS REQUIRED BY IBC SECTION 1705.3.1 AND IN COMPLIANCE WITH AWS D1.4 FOR SPECIAL INSPECTION AND AWS D1.4 FOR SPECIAL INSPECTOR QUALIFICATION.
 b. <u>MATERIAL TESTS</u> AS REQUIRED BY IBC SECTION 1705.3.2 AND ACI 318, CHAPTERS 19 AND 20.

IBC TABLE 1705.3 - REQ'D. SPECIAL INSPECTION OF CONC. CONSTRUCTION

	INSPECTION TYPE	CONTINUOUS INSPECTION	PERIODIC
i	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.		X
	REINFORCING BAR WELDING:		
а.	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		x
b.	INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/6": AND		X
c.	INSPECT ALL OTHER WELDS		X
-	INSPECT ANCHORS CAST IN CONCRETE.		x
	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.		
a.	ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	
b.	MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.		X
	VERIFY USE OF REQUIRED DESIGN MIX.		X
•	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	
-	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	x	
-	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		x
	INSPECT PRESTRESSED CONCRETE FOR:		
a.	APPLICATION OF PRESTRESSING FORCES; AND	X	
b.	GROUTING OF BONDED PRESTRESSING TENDONS.	X	
0.	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.		x
1.	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.		x
2.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		x

MASONRY CONSTRUCTION AS REQUIRED BY IBC SECTION 1705.4 AND LEVEL B SPECIAL INSPECTIONS OF TMS 402/ACI 530/ASCE 5 AS FOLLOWS:

F

	TMS TABLE 3.1.2 - LEVEL B QUALITY ASSURAN	ICE	
	INSPECTION TASK	MINIMUM SPECIAL INSPECTION FREQUENCY	
	VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		x
•	AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN		
а	PROPORTIONS OF SITE-PREPARED MORTAR		x
b.	CONSTRUCTION OF MORTAR JOINTS		X
С.	GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		X
d.	LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		X
e.	PRESTRESSING TECHNIQUE		X
f.	PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	Х	X
	PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
a.	GROUT SPACE		X
b.	GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND		X
	PRESTRESSING TENDONS AND ANCHORAGES		X
C.	PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING		
	TENDONS AND ANCHORAGES		∧
α.	PROPORTIONS OF STIE-PREPARED GROUT AND PRESTRESSING GROUT		v
			^
<u>e</u> .			
	VERIFY DURING CONSTRUCTION:		
a.	SIZE AND LOCATION OF STRUCTURAL ELEMENTS		X
b.	TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF		X
	ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR		
	OTHER CONSTRUCTION		
c.	WELDING OF REINFORCEMENT	Х	
d.	PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING		
	COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER		X
	(TEMPERATURE ABOVE 90°F (32°))		
e.	APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X	
f.	PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X	
g.	PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	x	x
•	OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		v
			∣ ∧

SOILS AS REQUIRED BY IBC 1705.6 AND TABLE 1705.6 AS FOLLOWS:
 PERIODIC SPECIAL INSPECTION REQUIRED TO:

a. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN

BEARING CAPACITY.b. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.

c. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.
d. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED.

2. CONTINUOUS SPECIAL INSPECTION REQUIRED TO:

a. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.

b. COMPACTED SOIL BACKFILL IN COMPLIANCE WITH SECTION 1803 SHALL REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH ASTM D1557.

G. **FABRICATED ITEMS** AS REQUIRED BY IBC SECTION 1705.10 AND SECTION 1704.2.5.

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621 WEAVER CT GLADWIN, MI

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MASONRY LINTEL SCHEDULE				
MARK	SIZE	REINFORCING	BEARING PLATE	BEARING
L1 *	8"Wx8"H CMU	(2) #5	-	8"
L2	8"Wx16"H CMU	(2) #5	-	8"
* TYP. AT ALL CMU OPENINGS FOR MAN DOORS, U.N.O.				

FOUNDATION NOTES

REMOVE AND REPLACE EXISTING FILL AND TOPSOIL W/ ENGINEERED FIL AT SLAB-ON-GRADE AND COLUMN LOCATIONS.

- LOOSE NATIVE BEARING SOILS SHALL BE COMPACTED W/ VIBRATORY ROLLER TO IMPROVE CAPACITY AND PROVIDE UNIFORM SUBGRADE CONDITIONS.
- CONTRACTOR TO ADHERE TO SITE PREPARATION RECOMMENDATIONS BY GEOTECH REPORT.

- TOP OF WALL FTG. & PEMB COL. PIERS ELEVATION = 99'-4" (TYP. U.N.O.). FOOTINGS TO BEAR ON COMPACTED NATIVE SOILS.
- ALL COLUMN FOOTINGS/PIERS ARE CENTERED ON PEMB ANCHOR BOLT PATTERN CENTERS. - 3.
- LOCATE FOOTING/PIERS WITH APPROVED PEMB SUBMITTAL. COORDINATE THE LOCATION OF THE IN-GROUND LIFT FOUNDATION WITH THE OWNER. 5.

FOOTING SCHEDULE			
MARK	SIZE	REBAR	
F1	8'-0" x 5'-6"" x 1'-0"	#5 @ 12" O.C. TOP B/W #4 @ 10" O.C. BOT. B/W	
F2	2'-8" x 2'-6" x 1'-0"	#5 @ 12" O.C.TOP & BOT. B/W	
F3	4'-0" x 4'-0" x 1'-0"	#5 @ 12" O.C.TOP & BOT. B/W	
WF1 8" POURED WALL W/ #4 @ 12" O.C. VERT. & HORIZ. REBAR ON 1'-6" x 12" STRIP FTG. W/ (2) #5 CONT. BARS TYP.			
NOTE: SEE FOOTING DETAILS FOR ADDITIONAL INFORMATION			
* BOT. OF FOOTING ELEVATION = 94'-6"			

PIER SCHEDULE SIZE MARK REINFORCING REMARK (8) #5 VERT. REBAR W/ 16" x 14" P1 #3 TIES @ 10" OC

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BIDS/PERMITS

KEYED JOINT

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

_ _ _

SCALE: 1"=1'-0"

SYMBOL/PIPING LEGEND

PIPE DOWN	C	
PIPE UP	O	
PIPE BREAK (FOR CLARITY)		
VENT THRU ROOF	VTR	
EXISTING	EXTG	
TYPICAL	TYP	
TIE TO EXISTING	$\mathbf{\Theta}$	
COMPRESSED AIR (CA) PIPI	NG	CA
CONDENSATE (COND) PIPIN	IG	

SPECIAL NOTICE TO CONTRACTORS

- 1. IT IS RECOMMENDED THAT ALL CONTRACTORS BIDDING THIS PROJECT VISIT THE JOB SITE AND VERIFY THE EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. CONTRACTORS ARE TO CAREFULLY REVIEW ALL CONSTRUCTION DOCUMENTS AND NOTE ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CONDITIONS OBSERVED AT THE JOB SITE PRIOR TO SUBMISSION OF ANY BID. THE BUILDING OWNER REPRESENTATIVE MAY BE CONTACTED FOR ACCESS TO THE JOB SITE.
- 2. PRIOR TO CONSTRUCTION, CONTRACTORS ARE RESPONSIBLE FOR VERIFYING THE LOCATION AND CONDITION OF THE FOLLOWING:
- A. ALL POINTS OF CONNECTION TO BUILDING UTILITIES AND/OR SYSTEMS INCLUDING, BUT NOT LIMITED TO, GAS, WATER, SEWER, VENT, MECHANICAL SYSTEMS, DUCTWORK, AND EXHAUST/OUTSIDE AIR,.
- B. ALL REQUIRED CONNECTIONS TO THE BUILDING STRUCTURE.
- C. ALL REQUIRED BUILDING PENETRATIONS.
- 3. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CONDITIONS OBSERVED SHALL BE BROUGHT TO THE ATTENTION, IN WRITING, TO THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 4. REFER TO THE CONSTRUCTION DOCUMENTS FOR ALL CONTACT INFORMATION.

PLUMBING DEMOLITION NOTES

- EQUIPMENT, PIPING, DUCTWORK, ETC., TAGGED WITH A PRECEDING "EX." OR "x" ARE EXISTING.
 THE PLUMBING CONTRACTOR SHALL REMOVE ALL ITEMS INDICATED AND SHALL BE RESPONSIBLE FOR THEIR DISPOSAL PER LOCAL, STATE AND FEDERAL REGULATIONS AND PAY
- RESPONSIBLE FOR THEIR DISPOSAL PER LOCAL, STATE AND FEDERAL REGULATIONS AND PAY FOR ALL ASSOCIATED COSTS OF DISPOSAL.3. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE TO
- DETERMINE IF ANY PARTS OR EQUIPMENT ARE DESIRED TO BE KEPT BY THE OWNER. THE OWNER SHALL HAVE THE RIGHT OF FIRST REFUSAL. ANY ITEM NOT WISHED TO BE RETAINED, SHALL BE DISPOSED OF AT THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- 4. ITEMS HATCHED SHALL BE PERMANENTLY REMOVED.
- 5. ITEMS CLOUDED SHALL BE TEMPORARILY REMOVED AND REUSED.

DEMOLITION KEYED NOTES

- PD-1 DEMO AND REMOVE EXISTING SANITARY DOWNSTREAM FROM THIS POINT. DEMO AND REMOVE EXISTING OIL/SAND INTERCEPTOR AND PREPARE TO TIE IN NEW SANITARY LINE. COORDINATE SAW-CUTTING, IN FILL, AND PATCHING WITH GENERAL CONTRACTOR AND/OR ARCHITECT.
- PD-2 PREPARE TO TIE IN NEW 3/4" HOT WATER RETURN LINE AND RECIRC. PUMP. SEE SHEET P100 FOR GAS WATER HEATER DETAIL.

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Sheet Title: PLUMBING DEMOLITION FLOOR PLAN

Project Number: 521558 **Description Sheet Number: PDD100** Management of sidock group, inc. and cancer dependencies of sidock group, inc. and cancer dependenc

SYMBOL/PIPING LEGEND

PIPE DOWN	C
PIPE UP	O
PIPE BREAK (FOR CLARITY)	
VENT THRU ROOF	VTR
EXISTING	EXTG
TYPICAL	TYP
TIE TO EXISTING	${\color{black} \bullet}$

COMPRESSED AIR (CA) PIPING	CA
CONDENSATE (COND) PIPING	COND
DOMESTIC COLD WATER (CW) PIPING	CW
DOMESTIC HOT WATER (HW) PIPING	———— HW ————
DOMESTIC HOT WATER RECIRCULATED (HWR) PIPING	— · · — HWR — · · —
GAS (G) PIPING	G
SANITARY WASTE/SEWER (SAN) PIPING	— — — SAN — — —

PLUMBING CLERESTORY PLAN

SCALE: 1/8"=1'-0"

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

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Key Plan:

No Scale

Client: GLADWIN CITY COUNTY TRANSIT

Project: GLADWIN TRANSPORTATION MAINTENANCE **BLDG ADDITION**

621 WEAVER CT GLADWIN, MI

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Sheet Title: PLUMBING FLOOR PLAN

ROUTE ALL OVERHEAD PIPING AS CLOSE TO DECK AS POSSIBLE. COORDINATE PIPE ROUTING WITH OVERHEARD DOORS, PRESSURE WASHER BOOMS, AND OTHER EQUIPMENT CLEARANCES.

PLUMBING FIXTURE SCHEDULE										
TAG DESCRIPTION	MANUFACTURER	MODEL	ROUGH-IN SIZE (INCHES)				TRIM	REMARKS		
				CW	НW	WASTE	VENT			
RP-1	RECIRC. PUMP WITH FLANGE CONNECTION	BELL & GOSSETT	NBF-12F/LW	-	3/4"	-	-	BRONZE CONSTRUCTION	115V / 1-PH, PROVIDE AQUASTAT W/ TIMER	
HB-1	HOSE BIBB, 3/4" MALE HOSE THREAD NOZZLE	WOODFORD	MODEL 101	3/4"	-	-	-	VACUUM BREAKER REMOVABLE TEE HANDLE	FURNISH TEE TO OWNER	
HR-1	HOSE REEL - WALL MOUNTED RETRACTABLE COMPRESSED AIR HOSE REEL	REELCRAFT	83050 OLP & 600-980	-	-	-	-	WALL MOUNT 50 FT. x 3/8" RUBBER HOSE WITH 1/2" NPT FITTING; SPRING RETURN, SWIVEL DESIGN MOUNTING BRACKET	FURNISH WITH SPEED COUPLER/QUICK DISCONNECT COUPLER	
OS-1	6" PLAIN END INLET/OUTLET, OIL/SAND SEPARATOR	STRIEM	OT-500	-	-	6"	-	314 GPM MAX FLOW RATE, 285 GAL OIL CAPACITY, 162 GAL SOLIDS CAPACITY	24" RISER OPTION	
TD-1	CAST IN PLACE CONCRETE TRENCH; 26" x 24" HEAVY DUTY GRATE	ERIC'SONS	26AF24GSD; 26B24DGF	-	-	4"	SEE PLANS	FRAME: HDSPGS15ZSA, HEAVY DUTY GALVANIZED STEEL; GRATE LOCKING: GL4B, FOUR CORNER BOLT DOWN	FLOOR DRAIN TRAP SEALER WITH RUBBER DIAPHRAGM ASSE 1072 LISTED, EQUAL TO SURE SEAL	
IW-1	INDIRECT WASTE DRAIN, 8" SQUARE, 6" SUMP DEPTH	ZURN	Z1910	-	-	2"	SEE PLANS	1/2 GRATE W/ DOME STRAINER	FLOOR DRAIN TRAP SEALER WITH RUBBER DIAPHRAGM ASSE 1072 LISTED, EQUAL TO SURE SEAL	
FD-1	FLOOR DRAIN, 8" ROUND	ZURN	Z415B	-	-	6"	SEE PLANS		FLOOR DRAIN TRAP SEALER WITH RUBBER DIAPHRAGM ASSE 1072 LISTED, EQUAL TO SURE SEAL	

HOSE REEL DETAIL

EXTG WATER HEATER

EXISTING GAS WATER HEATER DETAIL

Scale: None

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Key Plan:

No Scale

Client: GLADWIN CITY COUNTY TRANSIT

Project: GLADWIN TRANSPORTATION MAINTENANCE BLDG ADDITION

621 WEAVER CT GLADWIN, MI

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Sheet Title: PLUMBING DETAILS & SCHEDULES

Project Number: 521558

Sheet Number: P200

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SPECIAL NOTICE TO CONTRACTORS

- 1. IT IS RECOMMENDED THAT ALL CONTRACTORS BIDDING THIS PROJECT VISIT THE JOB SITE AND VERIFY THE EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. CONTRACTORS ARE TO CAREFULLY REVIEW ALL CONSTRUCTION DOCUMENTS AND NOTE ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CONDITIONS OBSERVED AT THE JOB SITE PRIOR TO SUBMISSION OF ANY BID. THE BUILDING OWNER REPRESENTATIVE MAY BE CONTACTED FOR ACCESS TO THE JOB SITE.
- 2. PRIOR TO CONSTRUCTION, CONTRACTORS ARE RESPONSIBLE FOR VERIFYING THE LOCATION AND CONDITION OF THE FOLLOWING:
- A. ALL POINTS OF CONNECTION TO BUILDING UTILITIES AND/OR SYSTEMS INCLUDING, BUT NOT LIMITED TO, GAS, WATER, SEWER, VENT, MECHANICAL SYSTEMS, DUCTWORK, AND EXHAUST/OUTSIDE AIR,.
- B. ALL REQUIRED CONNECTIONS TO THE BUILDING STRUCTURE.
- C. ALL REQUIRED BUILDING PENETRATIONS.
- 3. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CONDITIONS OBSERVED SHALL BE BROUGHT TO THE ATTENTION, IN WRITING, TO THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 4. REFER TO THE CONSTRUCTION DOCUMENTS FOR ALL CONTACT INFORMATION.

MECHANICAL DEMOLITION NOTES

- 1. EQUIPMENT, PIPING, DUCTWORK, ETC., TAGGED WITH A PRECEDING "EX." OR "x" ARE EXISTING.
- THE MECHANICAL CONTRACTOR SHALL REMOVE ALL ITEMS INDICATED AND SHALL BE RESPONSIBLE FOR THEIR DISPOSAL PER LOCAL, STATE AND FEDERAL REGULATIONS AND PAY FOR ALL ASSOCIATED COSTS OF DISPOSAL.
- 3. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE TO DETERMINE IF ANY PARTS OR EQUIPMENT ARE DESIRED TO BE KEPT BY THE OWNER. THE OWNER SHALL HAVE THE RIGHT OF FIRST REFUSAL. ANY ITEM NOT WISHED TO BE RETAINED, SHALL BE DISPOSED OF AT THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- 4. ITEMS HATCHED SHALL BE PERMANENTLY REMOVED.

DEMOLITION KEYED NOTES

- MD-1
 REMOVE EXISTING GAS METER AND GAS PIPING. PREPARE TO RELOCATE GAS MATER TO NEW LOCATION. COORDINATE WITH MECHANICAL AND ARCHITECTURAL DRAWINGS FOR NEW LOCATION. PREPARE TO EXTEND EXISTING GAS LINES FROM NEW GAS METER LOCATION TO EXISTING UNIT HEATER. VERIFY GAS PIPE SIZE IN FIELD.

 MD-2
 REMOVE EXISTING WALL FAN AND RELOCATE TO NEW LOCATION. COORDINATE WITH FILL OPENING INFILL
- ELECTRICAL WIRING, CONTROLS, FRAMING, ETC. COORDINATE WALL OPENING INFILL WITH THE GENERAL CONTRACTOR. VERIFY IN FIELD: LOCATION OF FAN CONTROL AND ASSUME RELOCATION FOR BIDDING PURPOSES.

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Key Plan:

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Client: GLADWIN CITY COUNTY TRANSIT

Project: GLADWIN TRANSPORTATION MAINTENANCE BLDG ADDITION

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Sheet Title: MECHANICAL DEMOLITION FLOOR PLAN

Project Number: 521558

MECHANICAL CLERESTORY PLAN SCALE: 1/8"=1'-0"

NATURAL GAS METER DETAIL

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Key Plan:

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Client: **GLADWIN CITY** COUNTY TRANSIT

Project: GĹADWIN TRANSPORTATION MAINTENANCE **BLDG ADDITION**

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	GAS MONITORING SYSTEM								
тас	DESCRIPTION			MOUNTING	, ELECTRICAL		NOTES		
TAG	DESCRIPTION	MANUFACTURER AND MODEL #	ACTIVATION	HEIGHT	VOLTAGE	M.F.S.	NOTES:		
GC-1	GAS DETECTION SYSTEM CONTROLLER	ARMSTRONG GAS DETECTION MONITOR MODEL AMC-1AD MULTI-DROP GAS MONITOR	RELAYS (1) CONTROL DAMPERS AND (1) EXHAUST FANS AND PROVIDES VISUAL ALARM	48" AFF	120/60/1Ø	15	GAS MONITORING SYSTEM COMPRISED OF (1) GAS MONITOR CONTROLLER AND (2) GAS MONITORS. CONTRACTOR SHALL INCLUDE ALL NECESSARY		
GM-1,2 ZONE 1	CARBON MONOXIDE AND NITROGEN DIOXIDE GAS SENSOR	AMSTRONG MULTI-DROP GAS SENSOR MODULE MODEL AMC-1222 CARBON MONOXIDE AND NITROGEN DIOXIDE	ALL NO2 AND CO DETECTION CO SENSOR RELAYS: GC-1 WHEN CO EXCEEDS 25.0 PPM NO2 SENSOR RELAYS GC-1 WHEN NO2 LEVELS EXCEED 3.0 PPM	60" AFF	-	-	EQUIPMENT, WIRING, ETC., FOR COMPLETE INSTALLATION AND OPERATION. MONITORING SYSTEM TO BE WET LOCATION/HUMIDITY RATED.		
GM-1,2 OPTIO WEATHER/SP WS00-SL ENC	NS: LASH GUARD MODEL LOSURE								

									GAS	-FIRI	ED UNI	TH	EAT S	CHED	ULE			
TAG		LOCATION MANUFACTURER AND MODEL FAN DATA FAN DATA CAPACITY BURNER DATA AIRFLOW (CFM) TYPE HP HP INPUT (MBH) OUTPUT (MBH) (MBH) EFF. FUEL FUEL MANIFOLD / VENT (MBH) Ø"			ELECTF	RICAL												
	LOCATION		AIRFLOW (CFM)	TYPE	HP	INPUT (MBH)	OUTPUT (MBH)	EFF.	FUEL	FUEL CONN.	MANIFOLD / GAS TRAIN	VENT Ø"	WEIGHT	VOLTAGE	TOTAL AMPS	CONTROLS	STANDARD FEATURES	OPTION
UH-1	WASH BAY/ VEHICLE STORAGE 100	MODINE MODEL PTC55	1097	PROP.	1/8	55	51.15	93	N.G.	1/2"	SINGLE STAGE	3"	93 LBS.	115V/60/1Ø	4.35	WALL THERMOSTAT	1. DIRECT SPARK-IGNITED 2. HIGH LIMIT SWITCHES 3. FAN INLET GUARD	1. 30° DOWN 2. FINGERP
UH-2	WASH BAY/ VEHICLE STORAGE 100	MODINE MODEL PTC85	1650	PROP.	1/8	85	79.05	93	N.G.	1/2"	SINGLE STAGE	3"	125 LBS	115V/60/1Ø	4.35	WALL THERMOSTAT	4. WIRING PACKAGE 5. CONTROL STEP DOWN TRANSFORMER 6. CONTRACTOR CONVENIENCE PACKAGE	4. PECO TH 5. CONDEN:

			EXH	HAUS	T FAN	SCHE	DULE	1		
ТАС	MANUFACTURER		AIRFLOW	E.S.P.	SOUND	ELE	CTRICAL		- CONTROL DATA	
TAG	& MODEL NO.	LUCATION	(CFM)	(IN W.G.)	(SONES)	VOLTAGE	HP	FLA		
EF-1	GREENHECK SE1-14-432-VG	WASH BAY	1,900	0.2	9.6	115 V	1/4	3.8	GAS MONITORING SYSTEM + HUMIDITY + MANUAL OVERIDE	1, 2, 3, 4, 5, 6
EF-2	GREENHECK SE1-8-440-D	WASH BAY	132	0.28	5.1	115 V	1/30	NA	CONTINUOUS	2, 3, 4, 5, 6
FAN OPTI 1. BACKD 2. 90° WE 3. WALL H	FAN OPTIONS: 4. NEMA-4X DISCONNECT RATED FOR 1. BACKDRAFT DAMPER (MOTORIZED) WASH-DOWN SPACES. 2. 90° WEATHERHOOD 5. TENV or TEFC FAN MOTOR AS REQ. 3. WALL HOUSING & BIRD SCREEN 6. NEMA-4X DAMPER ACTUATOR.									

			L	OUVER :	SCHI	EDULE					
	MANUFACTURER & MODEL	LOCATI					APD				
TAG		TYPE/SERVICE	FLANGED	THICKNESS (IN)	SIZE (IN)	MATERIAL	FINISH	(CFM)	(FPM)	(IN WG)	OPTIONS
L-1	GREENHECK ESD-635	STATIONAY EXTRUDED LOUVER WITH DRAINABLE BLADES AND 1/4" BIRD SCREEN	YES 1-1/2"	6"	30x24	ALUMINUM	COLOR BY ARCH	1,900	837	0.15"	1, 2
LOUVER 1. INCLUI INTERLO 2. NEMA-	OPTIONS: DE LOW-LEAKAGE MOTORIZ CKED WITH EF-1. 4X DAMPER ACTUATOR HO	ZED DAMPER (VCD-33) W/ TRANSFORMER, USING.									

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Key Plan:

No Scale

Client: GLADWIN CITY COUNTY TRANSIT

Project: GLADWIN TRANSPORTATION MAINTENANCE **BLDG ADDITION**

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NS / ACCESSSORIES NOTES: WNWARD SUPPLY AIR HOOD RPROOF FAN GUARD ONTAL CONC. VENT KIT TH-115; 24V ENSATE PUMP CONTRACTOR TO PROVIDE ALL NECESSARY MOUNTING HARDWARE, STRUT, HANGERS, ETC.

3 E101

ELECTRICAL SITE PLAN NOTES

51	ADDITION FOUNDATION WORK.
S2	REMOVE EXISTING TELEPHONE LINE (25 PR.) AND CAT CABLES RUNNING FROM MECH RM 108 TO COMMUNICATIONS RECONDUIT OUTSIDE OF CONSTRUCTION ZONE AND EXTEND TO NEW ENTRANCE LOCATION IN BUILDING.
S3	PROVIDE NEW UNDERGROUND CONDUIT TO INTERCEPTED EXISTING CONDUIT AND TURN UP INTO LB AND THEN THRO NEAR CORNER OF EXISTING BUILDING. COORDINATE WITH OWNER.
S4	ALTERNATE E1: IN LIEU OF REUSING EXISTING UNDERGROUND CONDUIT BETWEEN BUILDING INSTEAD DIRECTIONAL BUILDINGS.
S5	NOT USED
S6	NOT USED
S7	NOT USED
S8	NOT USED

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S1 COORDINATE WITH UTILITY SO THAT NEW UNDERGROUND TO NEW METER LOCATION (PROVIDED UNDER ANOTHER CONTRACT) IS COMPLETED PRIOR TO ABANDONING EXISTING SERVICE FOR ROOM IN ADMINISTRATION BUILDING. INTERCEPT UNDERGROUND DUGH THE WALL INTO NEW JB. PROVIDE AND INSTALL NEW 8" X 8" X 6" JB BORE AND PROVIDE 2-1/2" CONDUIT FOR NEW COMMUNICATIONS CABLES

	POWER SYMBOLS	LIGHTING SYMBOLS
	PANELBOARD; SEE SCHEDULE FOR DETAILS NONFUSED DISCONNECT; SEE SCHEDULE FOR DETAILS FUSED DISCONNECT; SEE SCHEDULE FOR DETAILS MANUAL STARTER W/ PILOT & THERMAL QUADPLEX RECEPTACLE	- LIGHT FIXTURES; SEE SCHEDULE FOR I
GFI ⊕ GFI ⊕ () () () () () () () () () () () () ()	DUPLEX RECEPTACLE E DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPT SPECIAL RECEPTACLE; SEE DRAWINGS JUNCTION BOX MOTOR/EQUIPMENT CONNECTION FIRE ALARM SYMBOLS FIRE ALARM CONTROL PANEL MANUAL PULL STATION FIRE ALARM HORN/STROBE - WALL MOUNTED HEAT DETECTOR - CEILING MOUNTED	EMERGENCY LIGHT - WALL MOUNTED UNIVERSAL MOUNT EXIT SIGN - SINGLE UNIVERSAL MOUNT EXIT SIGN - DOUBLE WIRELESS WALL STATION
Dx Px Lx Fx	NOTE SYMBOLS ELECTRICAL DEMOLITION PLAN NOTES POWER PLAN NOTES LIGHTING PLAN NOTES FIRE ALARM PLAN NOTES	NOT ALL SYMBOLS

AAMPEREAFFABOVE FINISHED FLOORAFGABOVE FINISHED GRADEAHUAIR HANDLING UNITBSIBUILDING SYSTEM INTEGRATIONCCONDUITCUHCABINET UNIT HEATEREMTELECTRICAL METALLIC TUBINGEFEXHAUST FANEWCELECTRIC WATER COOLEREWHELECTRIC WATER HEATERFAFIRE ALARMFMCFLEXIBLE METALLIC TUBINGGFCIGROUND FAULT CIRCUIT INTERRUPTER	GRC IG PVC P R RL RTU TEL TV WC WP	GALVANIZED RIGID CONDUIT ISOLATED GROUND NIGHT LIGHT CONDUIT PHOTO-ELECTRIC DETECTOR REMOVE LOW VOLTAGE RELAY ROOF TOP UNIT TELEPHONE TELEVISION WATER COOLER WIRE GUARD WEATHERPROOF
--	--	---

\triangleleft	ELECTRICAL DEMOLITION PLAN NOTES
D1	AFTER NEW ELECTRICAL SERVICE UNDERGROUND WIRING HAS BEEN COMPLTED BY UTILITY AND SERVICE IS RECONNECTED. RE
D2	REMOVE ABANDONED FEEDER CONDUCTORS AND CONDUIT BETWEEN DISCONNECT AND METER BASE.

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Key Plan:

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Client: GLADWIN CITY COUNTY TRANSIT

Project:

Project: GLADWIN TRANSPORTATION MAINTENANCE BLDG. ADDITION

621 WEAVER COURT GLADWIN, MI 48624

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Sheet Title: ELECTRICAL DEMOLITION PLAN, SYMBOL SCHEDULE & ABBREVIATIONS

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EMOVE DISCONNECT ON EXTERIOR OF BUILDING.

\bigcirc	ELECTRICAL POWER & SYSTEMS PLAN NOTES
P1	PROVIDE POWER TO SIDEWALL EXAUST FAN EF-1 AND INTERCONNECT WITH MOTORIZED LOUVER L-1 AND GC-1, H-STAT AND TIMER . CONFIRM LOCATIONS OF BOTH WITH M.C.
P2	PROVIDE AND INSTALL MANUAL MOTOR STARTER (DISCONNECT) AND POWER TO MOTORIZED LOUVER FROM SIDEWALL EXHAUST FAN EF-1. CONFIRM EXACT LOCATION WITH M.C.
P3	PROVIDE POWER TO 1/40 HP RECIRCULATING PUMP WITH AQUASTAT PROVIDED BY M.C.
P4	PROVIDE AND INSTALL NEMA 4X MANUAL MOTOR STARTER AND POWER TO NEW UNIT HEATER. CONFIRM EXACT LOCATION WITH M.C.
P5	PROVIDE POWER TO OVERHEAD DOOR OPERATOR AND INTERCONNECTION WIRING BETWEEN DOOR CONTROLS AND ACCESSORIES. CONFIRM EXACT OPERATOR LOCATION WITH SUPPLIER.
P6	PROVIDE POWER TO SIDEWALL EXHAUST FAN EF-2.
P7	PROVIDE POWER TO GAS MONITORING SYSTEM CONTROLLER AND HUMIDISTAT CONTACT AND INTERLOCK WITH EF-1 SUCH THAT WHEN EITHER CALLS FOR EF-1 TO BE "ON", THE FAN IS ENERGIZED. COORDINATE EXACT REQUIREMENTS WITH M.C.
P8	PROVIDE AND INSTALL TORK R5M4HW TIMER OR APPROVED EQUAL AND WIRE IN PARALLEL WITH HUMIDISTAT AND GC-1 SUCH THAT ANY OF THE THREE CAN ACTIVATE EF-1.

FIRE ALARM NOTES

H1	PROVIDE AND INSTALL HEAT DETECTOR OF THE SAME MANUFACTURER AND COMPATIBLE WITH THE EXISTING SYSTEM AND INTEGRATE IT INTO EXISTING DETECTOR CIRCUIT.
H2	PROVIDE AND INSTALL HORN/STROBE OF THE SAME MANUFACTURER AND COMPATIBLE WITH THE EXISTING SYSTEM AND INTEGRATE IT INTO EXISTING NOTIFICATION CIRCUIT.
H3	PROVIDE AND INSTALL MANUAL PULL STATION OF THE SAME MANUFACTURER AND COMPATIBLE WITH THE EXISTING SYSTEM AND INTEGRATE IT INTO PULL STATION CIRCUIT.

COMMUNICATIONS PLAN NOTES

C1 REMOVE EXISTING TELEPHONE LINE (25 PR.) AND CAT CABLES RUNNING FROM MECH RM 108 TO COMMUNICATIONS ROOM IN ADMINISTRATION BUILDING. INTERCEPT UNDERGROUND CONDUIT OUTSIDE OF CONSTRUCTION ZONE AND EXTEND TO NEW ENTRANCE LOCATION IN BUILDING. C2 PROVIDE NEW UNDERGROUND CONDUIT TO INTERCEPTED EXISTING CONDUIT AND TURN UP INTO LB AND THEN THROUGH THE WALL INTO NEW JB. PROVIDE AND INSTALL NEW 8" X 8" X 6" JB NEAR CORNER OF EXISTING BUILDING. COORDINATE WITH OWNER. C3 PROVIDE AND INSTALL NEW TELEPHONE CABLE AND CAT CABLES FROM ADMINISTATION BUILDING TO THIS LOCATION. TERMINATE BOTH ENDS AS NECESSARY TO RESTORE THE SAME FUNCTIONALITY AS BEFORE THE CONSTRUCTION. REFER TO ELECTRICAL SITE PLAN. C4 ALTERNATE E1: IN LIEU OF REUSING EXISTING UNDERGROUND CONDUIT BETWEEN BUILDING INSTEAD DIRECTIONAL BORE AND PROVIDE 2-1/2" CONDUIT FOR NEW COMMUNICATIONS CABLES BETWEEN BUILDINGS.

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Project: Project: GLADWIN TRANSPORTATION MAINTENANCE BLDG. ADDITION

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Sheet Title: **POWER & SYSTEMS** PLAN

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	O LIGHTING PLAN NOTES
L1	NOT USED
L2	PROVIDE NEW FIXTURE AND CONNECT TO EXISTING EXTERIOR LIGHT CIRCUIT. MATCH MOUNTING HEIGHT OF EXISTING FIXTURES.
L3	MOUNT FIXTURE AT BOTTOM OF TRUSS. FIXTURES ARRANGED TO AVOID INTERFERENCE WITH OVERHEAD DOORS AND WASH EQUIPMENT. (TYPICAL FOR ALL L1)
L4	PROVIDE WAVELINX LITE WIRELESS WALLSTATION AND PAIR WITH INTEGRAL SENSORS ON FIXTURES. PROVIDE WEATHERPROOF COVER. (TYPICAL)
L5	PROGRAM LIGHTING IN THIS AREA SUCH THAT UPON ANY SENSOR DETECTING OCCUPANCY, LIGHTING IS ENERGIZED TO 30% FOR WALKTHRU LIGHTING. LIGHTING CAN THEN BE RAISED TO 100% AT ANY WALLSTATION.

			LUMINAIRE SCHEDULE				
Туре	Mount	Fixture Description	Lamp Description	Input Wattage	Basis of Design	Approved Manufacturer 1	Approved Manufacturer 2
L1	SURFACE	4' HIGH OUTPUT VAPORTITE INDUSTRIAL, SEALED & GASKETED,IP65 & IP67 RATED WITH INTEGRAL OCCUPANCY AND DAYLIGHT SENSOR.	LED; 23455 LUMENS; 4000°K; 80CR	179 VA	METALUX VT4LED-LD5-24-DRF-UNV-L840-WLS4	LITHONIA FHE L48 24000LM ACL MD MVOLT GZ10 40K 80CRI	COLUMBIA LXEW4-40HV-CAW-EDU
L2	SURFACE	COMBINATION EXIT/EMERGENCY UNIT; WHITE THERMOPLASTIC HOUSING; 2 EMERGENCY HEADS; RED LETTERS; NI-CAD BATTERY. WET RATED	LED (Incl.)	5 VA	LITHONIA WLTC 1 R SD	DUAL-LITE	SURE-LITES
L3	WALL	DIE-CAST ALUMINUM HOUSING, SQUARE LUMINAIRE. TYPE III OPTICS; NIGHTTIME FRIENDLY. PROVIDE 1ST FIXTURE IN CIRCUIT WITH INTEGRAL PHOTOCELL.	LED; 10,054 LUMENS NOMINAL; 4000°K; 70CRI.	71 VA	LITHONIA WDGE3 LED P3 40K 70CRI R3 MVOLT SRM	ELITE OWP-FC-311-LED-10000L	LUMARK AXCL8A

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Key Plan:

No Scale

Client: GLADWIN CITY COUNTY TRANSIT

Project:

Project: GLADWIN TRANSPORTATION MAINTENANCE BLDG. ADDITION

621 WEAVER COURT GLADWIN, MI 48624

Date 03/24/25

Issued For BID & PERMIT SET

Drawn: MRI Checked: LR Approved: MRI

Sheet Title: LIGHTING PLAN

Project Number:

21558

Sheet Number: E104 THIS MATERIAL IS THE EXCLUSIVE PROPERTY OF SIDOCK GROUP, INC. AND CANNOT BE REPRODUCED, COPIED, OR USED IN ANY MANNER WITHOUT THE PRIOR WRITTEN CONSENT OF SIDOCK GROUP, INC. 2021

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Key Plan:

No Scale

Client: GLADWIN CITY COUNTY TRANSIT

Project: Project: GLADWIN TRANSPORTATION

MAINTENANCE BLDG. ADDITION

621 WEAVER COURT GLADWIN, MI 48624

Date 03/24/25

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Sheet Title: LIGHTING PHOTOMETRICS AND POWER DENSITY

Sheet Number: E105

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 \bigcirc \bigcirc \bigcirc \bigcirc **1 28**,0 + ^{29.5} + ^{34.2} 45 3 − () 35.2 + 34.3 + 29.5 () 2 7.9 49.1 49.2 42.2 42.2 51.0 64.9 57.3 _^{57.3} _^{64.7} 67.4 67.3 +73.2 +67.7 74.1 67.4 _72.8 65.3 +L^{74.0} 67.7 67.8 +69.2 +66.3 64.7 +57.4 +59.7 +57.0 57.2 56.5 59.2 55.5 $+^{51.9}$ $+^{53.8}$ $+^{50.3}$ 51.8 49.9 53.4 $+^{55.8}$ $+^{56.9}$ $+^{52.3}$ 51.9 56.5 55.7 _67.0 _67.2 _67.2 _61.9 61.5 66.7 _71.0 +76.5 $+^{77.9}$ $+^{77.2}$ $+^{71.5}$ = $+^{68.7}$ 76.8 77.3 _71.0 $+^{66.1}$ $+^{66.3}$ $+^{61.1}$ 65.8 _65.9 +^{55.1} +^{56.2} +^{51.7} 51.5 55.9 _55.0 +51.8 +51.8 +53.7 +50.250.2 _53.4 48.6 48.5 _60.0 57.3 59.7 57.8 57.8 57.3 $+^{68.3}$ $+^{69.8}$ $+^{66.5}$ 69.1 _68.3 . 66.3 L1 +67.0 +72.4 +73.9 74.0 +73.2 +67.5 +64.964.7 56.2 63.6 66.6 64.3 56.6 53.3 **____** 47.8 48.3 41.4 41.1 28.7 +33.3 \bigcirc \bigcirc Statistics DescriptionSymbolAvgMaxMinMax/MinAvg/MinAddition Photometric+57.2 fc77.9 fc27.2 fc2.9:12.1:1 2 E105 LIGHTING FOOT-CANDLE LEVELS Power Statistics # Luminaires
 Total Watts
 Area
 Density

 1613.7 W
 2560.0 ft2
 0.6 W/ft2
 Description Addition Power Density 9 3 LIGHTING POWER DENSITY 12" = 1'-0"

	Distribution Board:	MDP	
	Location:		v
	Supply From:		Pha
	Mounting:	Surface	w
	Enclosure:	Туре 1	
	Manufacturer:	Square D	M
скт	Ci	rcuit Description	
1	LPB		
2	SHOP		
3	LPA		
4	LPD		
5	WEST BUILDING		
6			
7			
8			
9			
10			
11			
12			
Lood	Naccification	Connected Load	Domond East
Dowor	Jiassincation		
Lightin	~	57300 VA	100.00%
	9	14400 VA	100.00%
Othor		56221 VA	100.00%
Pocont		0000 V/A	100.00%
Kitchor		2000 VA	100.00%
Intormi	ttopt	1656 VA	50.00%
IIIICIIIII		1030 VA	50.00 %

EXISTING PANELS

	Location: Supply From: MDP Mounting: Surfac Enclosure: Type 1 Manufacturer: Square	Volts: 120/208 Wye Phases: 3 Wires: 4 Model: NQ							A.I.C. F Mains Mains F MCB F	Rating: Type: Lugs Only Rating: 225 A Rating: 225 A			
скт	Circuit Description	Trip	Poles	1	4	E	3		0	Poles	Trip	Circuit Description	ск
1	NEW LIFT	20 A	3	0	2400					3	30 A	EXISTING POWER WASHER	2
3						0	2400						4
5								0	2400				6
7	MAKE-UP AIR	20 A	3	2400	2400					3	30 A	ABOVE GROUND HOIST	8
9						2400	2400						10
11								2400	2400				12
13	IN FLOOR EXHAUST	20 A	2	1456	1040					2	25 A	CEILING FAN	14
15						1456	1040						16
17	WELDER	50 A	2					3640	180	1	20 A	DRILL PRESS RECEPTACLE	18
19				3640									20
21	WEST WORK BENCH RECEPT	20 A	1			180	180			1	20 A	NE BENCH RECEPTACLE	22
23	WEST PANEL RECEPTACLE	20 A	1					180	0	1	20 A	SPARE	24
25	BASEBOARD HEAT DISPATCH	20 A	1	1500	0					1	20 A	SPARE	26
27	BASEBOARD HEAT DISPATCH	20 A	1			1500	1656			1	20 A	SOUTH OVERHEAD DOOR	28
29	TOP SOUTH OUTSIDE	20 A	1					180	2400	3	30 A	HVAC	30
31	BOTTOM SOUTH OUTSIDE	20 A	1	180	2400								32
33	AIR COMPRESSOR	50 A	3			3600	2400						34
35								3600	500	2	20 A	HIGH BAY LIGHTS CENTER	36
37				3600	500								38
39	HIGH BAY LTS SOUTH END	20 A	2			500	500			2	20 A	WORK BENCH AREA LTS	40
41								500	500				42
		Tota	I Load:	2137	'9 VA	2001	0 VA	1878	89 VA				
		Total	Amps:	18	0 A	16	8 A	15	7 A				

EXISTING PANELS

	Location: Supply From: MDF Mounting: Surfa Enclosure: Type Manufacturer: Squa	Volts: 120/208 Wye Phases: 3 Wires: 4 Model: NQ							A.I.C. Rating: Mains Type: Lugs Only Mains Rating: 125 A				
скт	Circuit Description	Trip	Poles		4	E	3	(0	Poles	Trip	Circuit Description	скт
1	RECEPTACLE	20 A	1	360	360					1	20 A	RECEPTACLE	2
3	RECEPTACLE	20 A	1			360	360			1	20 A	RECEPTACLE	4
5	RECEPTACLE	20 A	1					360	360	1	20 A	RECEPTACLE	6
7	RECEPTACLE	20 A	1	360	360					1	20 A	RECEPTACLE	8
9	RECEPTACLE	20 A	1			360	360			1	20 A	RECEPTACLE	10
11	FIRE ALARM	20 A	1					360	360	1	20 A	RECEPTACLE	12
13	SPARE	50 A	3	0	58					1	20 A	RP-1	14
15						0				1		SPACE	16
17								0		1		SPACE	18
19	SPACE		1							1		SPACE	20
21	SPACE		1							1		SPACE	22
23	SPACE		1							1		SPACE	24
25	SPACE		1							1		SPACE	26
27	SPACE		1							1		SPACE	28
29	SPACE		1							1		SPACE	30
		Tota	I Load:	ad: 1495 VA		1440 VA		1440 VA					
		Total	Amps:	12 A		12 A		12 A					

NEW PANEL

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Sheet Title: PANEL SCHEDULES

Project Number:

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