CITY OF KALAMAZOO SCALE PROJECT

CITY OF KALAMAZOO Kalamazoo, Michigan **CONSTRUCTION DOCUMENTS**

DESIGN TEAM

ARCHITECT/ENGINEER **TowerPinkster** Architecture · Engineering · Interiors

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SITE ADDRESS

CITY OF KALAMAZOO WATER RECLAMATION 1415 HARRISON STREET KALAMAZOO, MICHIGAN 49007

REFERENCED CODES

BUILDING:	2015 MICHIGA	N BUILDING C	ODE AND 2012	NFPA 101 L	IFE SAFET	CODE
ENERGY:			20)15 MICHIG	AN ENERGY	CODE
PLUMBING:			2018	8 MICHIGAN		G CODE
MECHANICAL	_:		2015 N	IICHIGAN M	ECHANICAL	CODE
FUEL GAS:		(11	FGC) 2015 INTE	RNATIONA	L FUEL GAS	S CODE
ELECTRICAL	: 2017 NA	FIONAL ELECTI	RICAL CODE W	ITH MICHIG	AN AMEND	MENTS
BARRIER-FR	EE:	2015 MICHIGA	AN BUILDING C	ODE AND 2	009 ICC & C	A117.1
USE GROUP:						U
CONSTRUCT	ION TYPE:					IIIB
AUTOMATIC	SPRINKLERS:					NO

PROJECT AREA TOTAL FINISHED PROJECT:

3,459 SQ. FT.

STRUCTURAL

GENERAL G 001 COVER SHEET G 003 INTERIOR PARTITION TYPES & DEVICE ALIGNMENT GUIDELINES

CIVIL C 100 SITE LAYOUT PLAN

S 001 SPECIAL INSPECTION S 101 OVERALL FOUNDATION PLAN S 301 DETAILS

ARCHITECTURAL A 101 FIRST FLOOR PLAN, ROOF PLAN & INTERIOR FLOOR PLAN A 301 EXTERIOR ELEVATIONS & BUILDING SECTIONS A 321 WALL SECTIONS

ELECTRICAL SITE ES 101 ELECTRICAL SITE PLAN

ELECTRICAL

TECHNOLOGY

NG INDEX

E 101 FIRST FLOOR POWER PLAN

T 101 FIRST FLOOR TECHNOLOGY PLAN T 401 TECHNOLOGY DETAILS





DATE

ISSUED FOR



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DEVICE ALIGNMENT GUIDELINES

NOT TO SCALE

(WHERE APPLICABLE) TO BE 2" OVER BACKSPLASH OR OVER COUNTERTOP (IF NO BACKSPLASH). FOR LARGE FORMAT TILE, ALIGN EDGE OF DEVICE WITH HORIZONTAL GROUT LINE CLOSEST TO COUNTERTOP.





18. ALL EXISTING ROOF TOP PENETRATIONS BEING REMOVED REQUIRE TO MATCH EXISTING ADJACENT.

MENT GUIDELINES	ECT PRIOR GINS. ITS OR TO ONS. FOR STION. CK ABOVE EMBLIES AT 5, UNLESS AT ALL EETS) SE BLOCK 20 GAGE. AGE. ENSIONED SPACES AND	PROJECT TITLE CITY OF KALAMAZOO SCALE	RATED RWISE. RVITION ION AL DECK TO TO OFFSET TWORK. ATER THAN UCTURAL GYPSUM BE RITERS 8" METAL ON 11/2" JUNCTURE DPENINGS. TOLLOWING 5, 3 5/8" KEY IX
APRIL 14, 2023	Kalamazoo, Michigan		Architecture · Engineering · Interiors

GENERAL NOTES

- 1. CONTRACTOR SHALL SALVAGE AND RESPREAD EXISTING TOPSOIL, PROVIDE CLASS A SEEDING 200#/ACRE, CHEMICAL FERTILIZER NUTRIENT - 240#/ACRE, MULCH - 2T/ACRE TO ALL DISTURBED AREAS NOT PAVED TO BE INCLUDED IN SITE IMPROVEMENTS. CONTRACTOR TO HAND RAKE TOPSOIL IN ALL LAWN AREAS & REMOVE STONES LARGER THAN 1/2" BEFORE SEEDING. ALL SLOPES 1:3 OR STEEPER SHALL BE PROTECTED WITH MULCH BLANKETS.
- 2. EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, AND THE CITY OF KALAMAZOO REQUIREMENTS AND SPECIFICATIONS.
- 3. ALL WORK SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL LAWS, RULES AND REGULATIONS IN FORCE AT THE TIME OF CONSTRUCTION.
- 4. ANY BITUMINOUS OR CONCRETE PAVEMENT, SANITARY SEWER, SANITARY SEWER SERVICE LEADS, OR STORM SEWER, WHICH IS DAMAGED BY THE CONTRACTOR DURING HIS OPERATIONS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AND AT THE CONTRACTOR'S EXPENSE.
- 5. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
- 6. SITE CONTRACTOR SHALL REMOVE AND STOCKPILE ALL TOPSOIL AND BLACK ORGANIC SOILS ON-SITE TO BE USED IN THE RE-GRADING OF LANDSCAPE AREAS. THIS MATERIAL IS NOT TO BE USED FOR FILL OR PAVEMENT SUBBASE. REMOVAL OF ANY EXCESS SOIL OFF-SITE TO CITY OF KALAMAZOO NAZARETH SITE, ADDRESS 311 NAZARETH ROAD, SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ALL EXISTING TREES, STUMPS AND BRUSH FROM THE SITE AS NECESSARY TO THE CITY OF KALAMAZOO NAZARETH SITE, ADDRESS 311 NAZARETH ROAD, TO CONSTRUCT IMPROVEMENTS.
- 8. ALL GRANULAR FILL UNDER THE INFLUENCE OF THE ROADWAY AND PROCESSED ROAD GRAVEL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
- 9. THE CONTRACTOR SHALL INSTALL PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVERNIGHT AS REQUIRED.



KEY	BEST MANAGEMENT PRACTICES	SYMBOL	WHERE USED
E8	PERMANENT SEEDING	at the short of the state of th	Stabilization method utilized on sites where earth change has been completed (final grading attained).
S51	SILT FENCE		Use adjacent to critical areas, to prevent sediment laden sheet flow from entering these areas.
S53	STABILIZED CONSTRUCTION ACCESS		Used at every point where construction traffic enters or leaves a construction site.
S58	INLET PROTECTION FABRIC DROP		Use at stormwater inlets, especially at construction sites.

REMOVAL NOTES

- 1. ALL REMOVALS SHALL BE TAKEN OFF-SITE AND DISPOSED OF AT THE CITY OF KALAMAZOO NAZARETH SITE, ADDRESS 311 NAZARETH ROAD. NO STOCKPILE OR BURNING OF DEBRIS IS ALLOWED.
- 2. COMPLY WITH ALL ASPECTS OF THE SOIL EROSION CONTROL PERMIT AS ISSUED BY CITY OF KALAMAZOO, ALL TEMPORARY CONTROL MEASURES SHALL BE IN PLACE PRIDR TO COMMENCING CONSTRUCTION.
- 3. ALL REMOVALS SHALL BE TO THE LIMITS INDICATED ABOVE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. UNAUTHORIZED REMOVALS AND SUBSEQUENT REPLACEMENT SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 4. REMOVE, STORE, AND RESET ANY EXISTING SIGNS AS DIRECTED BY THE ENGINEER/OWNER. 5. REVIEW CLEARING LIMITS WITH OWNER PRIOR TO COMMENCING WORK. PRESERVE TREES WHERE INDICATED.
- 6. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE
- ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
- 7. FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CALL 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

GRADING NOTES

- 95% MODIFIED PROCTOR DENSITY.
- ARE BEING ACHIEVED.
- OCCUR.

SEE SME "GEOTECHNICAL EVALUATION REPORT - REVISED", DATED JANUARY 6, 2023 (PROJECT # 089338.00) FOR **PAVEMENT CROSS SECTIONS AND SITE PREPARATION REQUIREMENTS.**



1. MATCH EXISTING GRADES AROUND PERIMETER WITH SLOPES AS SHOWN. MATCH AT 1 ON 4 IF NOT LABELED. 2. ALL SPOT ELEVATIONS ARE TOP OF PAVEMENT GRADES AT EDGE OF METAL (EOM) UNLESS OTHERWISE NOTED. 3. ALL SOIL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIDR TO MASS GRADING.

4. ALL EXISTING ELEVATIONS ARE TO BE VERIFIED AND ACCEPTED AS SHOWN PRIOR TO COMMENCEMENT OF WORK. 5. REMOVE AND REPLACE WITH CONTROLLED FILL ANY AREAS THAT HAVE BEEN SOFTENED BY RAINS, FREEZING, CONSTRUCTION EQUIPMENT, ETC.

6. ALL GRANULAR FILL UNDER THE INFLUENCE OF THE PAVEMENT AND BUILDING GRAVEL SHALL BE COMPACTED TO

7. ALL COMPACTION SHALL BE ACCOMPLISHED BY PLACING THE FILL IN 12" LOOSE LIFTS AND MECHANICALLY COMPACTING EACH LIFT TO AT LEAST THE SPECIFIED MINIMUM DRY DENSITY. FIELD DENSITY TESTS SHOULD BE PERFORMED ON EACH LIFT AS NECESSARY TO ENSURE THAT ADEQUATE MOISTURE CONDITIONS AND COMPACTION

8. CONTRACTOR RESPONSIBLE FOR VERIFYING EARTHWORK CALCULATIONS PRIOR TO COMMENCING WORK. NO EXTRA EARTHWORK WILL BE PAID FOR ONCE EARTHWORK HAS BEGUN. ANY DISCREPANCIES WITH THE EARTHWORK CALCULATIONS SHALL BE REVIEWED WITH THE OWNER AND ENGINEER PRIOR TO CONSTRUCTION.

9. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS BECOME APPARENT, THESE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION OF ANYTHING AFFECTED SO THAT CLARIFICATION OR REDESIGN MAY



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<u> TABLE 1</u>

		REQUIRED GE	OTECHNICAL SPI	ECIAL INSPECT	IONS
		INSI			
SYSTEM OR MANUAL	IBC CODE	CODE OR STANDARD	FREQL	IENCY	REMARKS
	REFERENCE	REFERENCE	CONTINUOUS	PERIODIC	
		1	SOILS		
GEOTECHNICAL INVESTIGATIONS	1803				GEOTECHNICAL INVESTIGATION OF SPECIAL INSPECTION AND TE TABLE 4 OF THE GUIDELINES
VERIFY FOOTING BEARING CAPACITY AND SUBGRADE PREPARATION FOR FILLS		CEOTECHNICAL		Х	
FILL MATERIAL VERIFICATION	TABLE 1705.6	REPORT	X		BY THE GEOTECHNICAL ENGINEE
FILL PLACEMENT & COMPACTION			X		
LIFT THICKNESS			X		
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	TABLE 1705.6			Х	BY THE GEOTECHNICAL ENGINEE
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	TABLE 1705.6			х	
PERFORM CLASSIFICATION OF COMPACTED FILL MATERIALS	TABLE 1705.6 1803.5.1			Х	
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	TABLE 1705.6		x		BY THE GEOTECHNICAL ENGINEE
PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	TABLE 1705.6			х	

TABLE 2

REQUIRED TESTING SPECIAL INSPECTIONS TESTING

SYSTEM OR MANUAL	IBC CODE	CODE OR STANDARD	FREQUENCY		REMARKS
	REFERENCE	REFERENCE	CONTINUOUS	PERIODIC	
	•	GEOTI	ECHNICAL		
GEOTECHNICAL ENGINEER TO PERFORM TESTING OF COMPACTED FILL MATERIALS	1803				TESTING PER GEOTECHNICAL REPORT
FILL IN PLACE DENSITY OR PREPARED SUBGRADE DENSITY		VARIES; MINIMUM PER IBC APPENDIX J107.5		Х	BY THE GEOTECHNICAL ENGINEER
MATERIAL VERIFICATION	1705.6	VARIES; CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS		x	BY THE GEOTECHNICAL ENGINEER

GENERAL NOTES - QUALITY ASSURANCE PLAN

- 1. GENERAL NOTES
- A. THE QUALITY ASSURANCE PLAN DRAWINGS PROVIDE PROJECT COMPLIANCE WITH THE PROVISIONS.
- B. FOR ADDITIONAL REQUIREMENTS, REFER TO PROJECT SPECIFICATIONS, INCLUDING
- 1. CONTRACTOR'S REQUIREMENTS TO PROVIDE ACCESS TO THE WORK FOR REQUIRED INSPECTIONS, AND TO PROVIDE
- NOTICE OF REQUIRED INSPECTIONS AND STRUCTURAL OBSERVATION. 2. CONTRACTOR'S STATEMENT OF RESPONSIBILITY FOR WORK TO BE PERFORMED ON SYSTEMS DESIGNATED UNDER THE
- QUALITY ASSURANCE PLAN FOR WIND OR SEISMIC RESISTANCE. 3. DEFINITIONS AND TECHNOLOGY USED IN THIS PLAN.
- 2. SPECIAL INSPECTION
- A. SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE TOGETHER WITH LOCAL AND STATE AMENDMENTS. REFER TO THE TABLES CONTAINED ON THE GENERAL SHEETS FOR PROJECT SPECIFIC INSPECTION TYPES.
- B. SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED ACCREDITED INDEPENDENT AGENCY. INSPECTORS FOR EACH SYSTEM AND MATERIAL SHALL BE INTERNATIONAL CODE COUNCIL (ICC) CERTIFIED OR OTHERWISE APPROVED BY THE BUILDING OFFICIAL.
- C. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONTRACT DOCUMENTS AND SUBMIT RECORDS OF INSPECTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
- D. SPECIAL INSPECTION AND ASSOCIATED TESTING REPORTS SHALL BE SUBMITTED TO THE ENGINEER, CONTRACTOR, BUILDING OFFICIAL, AND OWNER WITHIN ONE WEEK OF INSPECTION OR WITHIN ONE WEEK OF TEST COMPLETION. INSPECTIONS FOR WHICH REPORTING SHALL BE REQUIRED ARE NOTED IN THE TABLE CONTAINED ON THIS PLAN.
- E. SEE TABLES FOR INSPECTION AND TESTING REQUIREMENTS.
- F. SEE PROJECT SPECIFICATIONS AND REFERENCED STANDARDS FOR FREQUENCY OF TESTING.
- G. AT THE CONCLUSION OF CONSTRUCTION, A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF PREVIOUSLY NOTED DISCREPANCIES SHALL BE SUBMITTED.

3. STRUCTURAL OBSERVATION

- A. STRUCTURAL OBSERVATION SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE TOGETHER WITH LOCAL AND STATE AMENDMENTS. REFER TO PROJECT SPECIFIC NOTES ON THIS SHEET.
- B. ONSITE STRUCTURAL OBSERVATION WILL BE PERFORMED AT LEAST ONCE A MONTH, PLUS AT COMPLETION, FOR EACH IDENTIFIED SEISMIC FORCE OR WIND FORCE RESISTING SYSTEM IDENTIFIED, INCLUDING FOUNDATIONS AND CONNECTIONS.
- C. STRUCTURAL OBSERVATION WILL BE PERFORMED BY THE REGISTERED PROJECT DESIGN PROFESSIONAL FOR ALL GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR ANY REQUIRED SPECIAL INSPECTIONS OR INSPECTIONS BY THE BUILDING OFFICIAL.
- D. STRUCTURAL OBSERVATION REPORTS, NOTING ANY DEFICIENCIES, WILL BE DELIVERED TO THE CONTRACTOR, BUILDING OFFICIAL, AND OWNER WITHIN ONE WEEK OF THE OBSERVATION. THE CONTRACTOR WILL BE NOTIFIED ON SITE BY PHONE WITHIN 24 HOURS UPON FINDING DEFICIENCIES.
- E. AT THE CONCLUSION OF CONSTRUCTION, A WRITTEN STATEMENT WILL BE PROVIDED TO VERIFY THAT THE STRUCTURAL OBSERVATION SITE VISITS WERE MADE WHETHER THERE REMAIN ANY STRUCTURAL DEFICIENCIES THAT HAVE NOT BEEN RESOLVED.
- F. STRUCTURAL OBSERVATION SHALL INCLUDE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM FOR EACH STRUCTURE CONTAINED IN THE WORK. THE CONTRACTOR SHALL SCHEDULE AND FACILITATE STRUCTURAL OBSERVATION INCLUDING THE FOLLOWING:
- 1. STEEL COLUMNS & FRAMING
- 2. STEEL DECK WELDING AND OTHER CONNECTIONS PRIOR TO INSTALLATION OF ROOFING
- 3. STEEL COLLECTOR CONNECTIONS PRIOR TO COVER
- 4. ALL OTHER WALL ANCHORAGE CONNECTIONS FOR MATERIAL NOT SPECIFICALLY IDENTIFIED
- 5. FOUNDATION REINFORCING STEEL, WATERSTOPS, EMBEDS, AND SIMILAR ITEMS PRIOR TO CONCRETE PLACEMENT
- 6. CONCRETE WALL REINFORCING PRIOR TO CONCRETE PLACEMENT
- 7. WALL TO FOUNDATION CONNECTIONS PRIOR TO FORM CLOSURE OR CLADDING COVER FOR ALL MATERIALS
- 8. SYSTEM CONNECTION EMBEDS PRIOR TO GROUT OR CONCRETE PLACEMENT
- 9. CONCRETE WALL TO FLOOR AND ROOF CONNECTIONS PRIOR TO CLADDING INSTALLATION OR OTHER COVER

TABLE 1



		REQUIRED ST	RUCTURAL SPEC	CIAL INSPECTION	15						NG
INSPECTION											
SYSTEM OR MANUAL IBC CODE CODE OR STANDARD FREQUENCY REMARKS			IN:	SPECTION							
	REFERENCE	REFERENCE	CONTINUOUS	PERIODIC		SYSTEM OR MANUAL	IBC CODE	CODE OR STANDARD	FREQ	JENCY	REMARKS
			FABRICATORS				REFERENCE	KEFERENCE	CONTINUOUS	PERIODIC	
					SPECIAL INSPECTIONS APPLY TO VERIFICATION OF		1		STEEL	1	- I
FABRICATORS	1704.2			X	DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES INCLUDING REVIEW FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS	FABRICATION OF STRUCTURAL ELEMENTS	1704.2	ASTM AG, ASTM STANDARDS SPECIFIED IN		X	REFER TO INSPECTION OF FABRICATOR RI
		I	CONCRETE			AND VERIFICATION MARKINGS AND COLD FORMED	2203.1	CONSTRUCTION		X	CERTIFIED MILL TEST REPORTS
INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE	1909.1	ACI: 3.8.7, 8.1.3, 21.2.8, D9.2		X		STEEL DECK		DOCUMENTS, AISC 360 A3 1 N5 N6			
REINFORCING STEEL PLACEMENT	1704.4 1910.4 1901.3.2	ACI 318: 3.5 ACI 318: 7.1-7.7 ACI 318: 1.3.2.C		x	TOLERANCES AND REINFORCING PLACEMENT PER ACI 7.5; SPACING LIMITS FOR REINFORCING ACI 7.6	MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS,	1704.3	ASTM STANDARDS SPECIFIED IN			
WELDING REINFORCING STEEL	1704.3.1, 1903.1	ACI 318: 3.5.2 AWS D1.4	X		REFER TO STEEL FOR ADDITIONAL WELDING REQUIREMENTS TABLE 1704.3, ITEM 5b	NUTS, WASHERS, AND VERIFICATION MARKINGS		CONSTRUCTION DOCUMENTS RCSC 2.1		X	MANUFACTURER'S CERTIFIED TEST REPOR
PLACEMENT OF BOLTS INSTALLED IN CONCRETE	TABLE 1704.4 1909.1	ACI 318: 1.3.2.C ACI 318: 8.1.3 ACI 318: 21.1.8	x		ALL BOLTS VISUALLY INSPECTED	MATERIEL VERIFICATION OF ANCHOR BOLTS AND THREADED RODS	1704.3	AISC 360 A3.4 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS		х	MANUFACTURER'S CERTIFIED TEST REPOF
VERIFY USE OF REQUIRED MIX DESIGN(S)	TABLE 1704.4 1904 1901.4.1	ACI 318: 4.1-4.4 5.2-5.4		X		MATERIAL VERIFICATION OF WELD FILLER METALS AND IDENTIFICATION MARKINGS	1704.3.1	AISC 360 A3.5, N5.4 APPLICABLE AWS A5 DOCUMENTS		x	MANUFACTURER'S CERTIFICATE OF COMP
	TABLE 1704 4	ACI 318: 1.3.2.D,	v			VERIFYING USE OF PROPER WPS'S				Х	COPY OF WELDING PROCEDURE SPECIFIC
		5.9-5.10	×			VERIFYING WELDER QUALIFICATIONS				Х	COPY OF QUALIFICATION CARDS
							1704.3.1	AWS D1.1	X		
CONCRETE CURING	TABLE 1704.4	ACI 318: 1.3.2.D, 5.11-5.13		X MULTIPASS FILLET WELDS	SECTION 6	X					
						SINGLE PASS FILLET WELDS GREATER THAN 5/16"	5/16" 1704.3.1 ALCO 200 NE ALCO 201 V				
VERIFICATION OF FORMWORK	TABLE 1704.4	ACI 318: 6.1.1		x	SPECIAL INSPECTIONS APPLY TO SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	PLUG AND SLOT WELDS	TABLE	AISC 360-N5, AWS D1.1, SECTION 6	X		
						TO 5/16"				X	
TABLE 2						INSTALLATION OF ROOF DECKING	TABLE 1704.3 1704.15	AISC 360-NG, ICC EVALUATION REPORT		х	SPECIAL INSPECTIONS APPLY TO DECKING DEPTH AND GAGE, POWER ACTUATED FAS SCREWS, PROPRIETARY SIDE SEAM ATTAC BUTTON PUNCHES AND SHEAR CONNECTO
		REQUIRED ST	RUCTURAL SPEC	CIAL INSPECTION	15	FLOOR AND ROOF DECK WELDS		AISC 360-N6, AWS D1.3 SECTION 7		x	ALL WELDS INSPECTED PER AWS D1.3 7.
SYSTEM OR MANUAL	IBC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQ	PERIODIC	REMARKS	WELDING STUDS EXCEPT AS NOTED OTHERWISE WELDING STUDS IN STRUCTURAL DIAPHRAGMS	TABLE 1704.3	AISC 360-N6, AWS D1.1 SECTION 7	X	x	ALL WELDS VISUALLY INSPECTED PER AWS
	RI	EQUIRED VERIFICATION AND II	SPECTION OF CONCE	RETE CONSTRUCTION			-	AISC 360-N5 AWS D1 1			
INSPECTION OF ANCHOR POST-INSTALLATION IN HARDENED CONCRETE MEMBERS,					a. WHERE APPLICABLE, SEE ALSO SECTION 1705.11, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.	WELDING STAIK AND KAILING SYSTEMS		SECTION 6		X	ALL WELDS VISUALLY INSPECTED PER AWS
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	1705.3	ACI 318: D9.2.4	x		b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH D9.2 IN ACI 318, OR	SNUG TIGHT HIGH STRENGTH BOLT INSTALLATION PRETENSIONED HIGH STRENGTH BOLT INSTALLATION USING TURN-OF-THE-NUT METHOD WITH MATCH MARKING, DIRECT TENSION INDICATOR METHOD, OR	TABLE	AISC 360-N5.6, RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING		x	ALL CONNECTIONS INSPECTED AND VERIF ALL CONNECTIONS INSPECTED, CONNECT DIRECT TENSION INDICATORS, ALL BOLTS INSPECTED AFTER SNUGGING AND AFTER
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4a.		ACI 318: D9.2		X	OTHER QUALIFICATION PROCEDURES, WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED. SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.	TWIST-OFF TYPE TENSION CONTROL BOLT METHOD PRETENSIONED HIGH STRENGTH BOLT INSTALLATION USING TURN-OF-THE-NUT METHOD WITHOUT MATCH MARKING OR CALIBRATED WRENCH METHOD OR TENSIONING OF SLIP CRITICAL CONNECTIONS	1704.3	ASTM A325 OR A490 BOLT9 SECTION 9	X		ALL CONNECTIONS INSPECTED
		POST IN	ISTALLED CONCRETE	ANCHORS		VERIFICATION OF FRAME JOINT DETAILS INCLUDING		AISC 200 NE			
INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE	1909.1	ICC EVALUATION REPORT ACI318: 3.8.7,	SEE REMARKS	x	SPECIAL INSPECTIONS APPLY TO ANCHOR PRODUCT NAME, TYPE, AND DIMENSIONS, HOLE DIMENSIONS, COMPLIANCE WITH DRILL BIT REQUIREMENTS, CLEANLINESS OF THE HOLE AND ANCHOR, ADHESIVE	MEMBER AND COMPONENT LOCATIONS, BRACING, AND STIFFENERS MATERIAL VERIFICATION OF REINFORCING STEEL FOR WELDING	1704.3.2 TABLE	ACI 318: 3.5.2		x	CERTIFIED MILL TEST REPORTS
		8.1.3, 21.2.8, D9.2			EXPIRATION DATE, ANCHOR/ADHESIVE INSTALLATION, ANCHOR EMBEDMENT, AND TIGHTENING TORQUE ANCHORS TO BE INSTALLED AND INSPECTED PER	WELDING REINFORCING EXCEPT AS NOTED OTHERWISE	1704.3, 1705.2.2.1.2			X	
					MANUFACTURER'S PRODUCT EVALUATION REPORT	WELDING SHEAR REINFORCEMENT			X		ALL WELDS VISUALLY INSPECTED PER AWS

		REQUIRED ST	RUCTURAL SPEC	CIAL INSPECTION	5					
		ING	PECTION					REQUIRED STI	RUCTURAL SPECIAL INSPECTI	ONS
SYSTEM OR MANUAL	120.0005		FREQUENCY					INSF	PECTION	
	REFERENCE	CODE OR STANDARD REFERENCE	CONTINUOUS	PERIODIC		SYSTEM OR MANUAL	IBC CODE	CODE OR STANDARD	FREQUENCY	REMARKS
				TENODIC			REFERENCE	REFERENCE	CONTINUOUS PERIODIC	
			FABRICATORS						STEEL	
54771047070	1704.0			v	SPECIAL INSPECTIONS APPLY TO VERIFICATION OF DETAILED FABRICATION AND QUALITY CONTROL	FABRICATION OF STRUCTURAL ELEMENTS	1704.2		X	REFER TO INSPECTION OF FABRICATO
FABRICATORS	1704.2			*	PROCEDURES INCLUDING REVIEW FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS		1704 3	ASTM AG, ASTM STANDARDS SPECIFIED IN		
			CONCRETE	1		AND VERIFICATION MARKINGS AND COLD FORMED	2203.1	CONSTRUCTION	X	CERTIFIED MILL TEST REPORTS
INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE	1909.1	ACI: 3.8.7, 8.1.3, 21.2.8, D9.2		X		STEEL DECK		DOCUMENTS, AISC 360 A3.1, N5, N6		
REINFORCING STEEL PLACEMENT	1704.4 1910.4 1901.3.2	ACI 318: 3.5 ACI 318: 7.1-7.7 ACI 318: 1.3.2.C		X	TOLERANCES AND REINFORCING PLACEMENT PER ACI 7.5; SPACING LIMITS FOR REINFORCING ACI 7.6	MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS,	1704.3	ASTM STANDARDS SPECIFIED IN	X	
WELDING REINFORCING STEEL	1704.3.1, 1903.1	ACI 318: 3.5.2 AWS D1.4	X		REFER TO STEEL FOR ADDITIONAL WELDING REQUIREMENTS TABLE 1704.3, ITEM 56	NUTS, WASHERS, AND VERIFICATION MARNINGS		DOCUMENTS RCSC 2.1		
PLACEMENT OF BOLTS INSTALLED IN CONCRETE	TABLE 1704.4 1909.1	ACI 318: 1.3.2.C ACI 318: 8.1.3 ACI 318: 21.1.8	X		ALL BOLTS VISUALLY INSPECTED	MATERIEL VERIFICATION OF ANCHOR BOLTS AND THREADED RODS	1704.3	AISC 360 A3.4 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS	x	MANUFACTURER'S CERTIFIED TEST RE
VERIFY USE OF REQUIRED MIX DESIGN(S)	TABLE 1704.4 1904 1901.4.1	ACI 318: 4.1-4.4 5.2-5.4		X		MATERIAL VERIFICATION OF WELD FILLER METALS AND IDENTIFICATION MARKINGS	1704.3.1	AISC 360 A3.5, N5.4 APPLICABLE AWS A5 DOCUMENTS	X	MANUFACTURER'S CERTIFICATE OF CO
	TABLE 1704 4	ACI 318: 1.3.2.D,	N N			VERIFYING USE OF PROPER WPS'S			X	COPY OF WELDING PROCEDURE SPEC
	TADLE 1704.4	5.9-5.10	X			VERIFYING WELDER QUALIFICATIONS			X	COPY OF QUALIFICATION CARDS
						COMPLETE AND PARTIAL JOINT PENETRATION	1704.3.1	AWS D1.1	X	
CONCRETE CURING	TABLE 1704.4	ACI 318: 1.3.2.D, 5.11-5.13		X MULTIPASS FILLET WELDS		SECTION 6	X			
					SPECIAL INSPECTIONS APPLY TO SHAPE, LOCATION	SINGLE PASS FILLET WELDS GREATER THAN 5/16"	1704.3.1	AISC 360-N5, AWS D1.1,	X	ALL WELDS VISUALLY INSPECTED PER
VERIFICATION OF FORMWORK	TABLE 1704.4	ACI 318: 6.1.1		X AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED PLUG AND SLOT WELDS TABLE	SECTION 6	Х				
				1		SINGLE PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"	1704.3		Х	
TABLE 2						INSTALLATION OF ROOF DECKING	TABLE 1704.3 1704.15	AISC 360-NG, ICC EVALUATION REPORT	X	SPECIAL INSPECTIONS APPLY TO DEC DEPTH AND GAGE, POWER ACTUATED SCREWS, PROPRIETARY SIDE SEAM A BUTTON PUNCHES AND SHEAR CONN
		REQUIRED ST	RUCTURAL SPEC	CIAL INSPECTION	5			AISC 360-N6, AWS D1.3	v .	ALL WELDS INSPECTED PER AWS D1.3
		INS	PECTION					SECTION 7	^	
SYSTEM OR MANUAL	IBC CODE	CODE OR STANDARD	FREQ	UENCY	REMARKS	WELDING STUDS EXCEPT AS NOTED OTHERWISE	TABLE	AISC 360-NG, AWS D1.1	X	ALL WELDS VISUALLY INSPECTED PER
	REFERENCE	REFERENCE	CONTINUOUS	PERIODIC	_		1704.3	SECTION 7	Y	
	R	EQUIRED VERIFICATION AND II				WEEDING STODS IN STRUCTURAE DIALTIRAGINIS				
INSPECTION OF ANCHOR POST-INSTALLATION IN HARDENED CONCRETE MEMBERS,					a. WHERE APPLICABLE, SEE ALSO SECTION 1705.11, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.	WELDING STAIR AND RAILING SYSTEMS		SECTION 6	X	ALL WELDS VISUALLY INSPECTED PER
	1705.3				6 SPECIFIC REQUIREMENTS FOR SPECIAL	SNUG TIGHT HIGH STRENGTH BOLT INSTALLATION		-	X	ALL CONNECTIONS INSPECTED AND V
 ADMENTE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4a. 		ACI 318: D9.2.4 ACI 318: D9.2	X	x	INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH D9.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES, WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED. SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY	PRETENSIONED HIGH STRENGTH BOLT INSTALLATION USING TURN-OF-THE-NUT METHOD WITH MATCH MARKING, DIRECT TENSION INDICATOR METHOD, OR TWIST-OFF TYPE TENSION CONTROL BOLT METHOD PRETENSIONED HIGH STRENGTH BOLT INSTALLATION	TABLE 1704.3	AISC 360-N5.6, RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS SECTION 9	X	ALL CONNECTIONS INSPECTED, CONN DIRECT TENSION INDICATORS, ALL BO INSPECTED AFTER SNUGGING AND AF RETENSIONING
					THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.	USING TURN-OF-THE-NUT METHOD WITHOUT MATCH MARKING OR CALIBRATED WRENCH METHOD OR TENSIONING OF SLIP CRITICAL CONNECTIONS			x	ALL CONNECTIONS INSPECTED
		POST IN	ISTALLED CONCRETE A	ANCHORS		VERIFICATION OF FRAME JOINT DETAILS INCLUDING				
INSPECTION OF ANCHORS INSTALLED IN HARDENED	1909.1	ICC EVALUATION REPORT ACI318:	SEE		SPECIAL INSPECTIONS APPLY TO ANCHOR PRODUCT NAME, TYPE, AND DIMENSIONS, HOLE DIMENSIONS, COMPLIANCE WITH DRILL BIT REQUIREMENTS	MEMBER AND COMPONENT LOCATIONS, BRACING, AND STIFFENERS	1704.3.2	AISC 360-NS	X	
CUNCKETE		3.8.7, 8.1.3, 21.2.8, D9.2	REMARKS	X	CLEANLINESS OF THE HOLE AND ANCHOR, ADHESIVE EXPIRATION DATE, ANCHOR/ADHESIVE INSTALLATION,	WELDING REINFORCING EVCEPT AS NOTED OTHERWASE	TABLE 1704.3,	AUI 318: 3.5.2 AWS D1.4	X	CERTIFIED MILL TEST REPORTS
					ANCHOR EMBEDMENT, AND TIGHTENING TORQUE ANCHORS TO BE INSTALLED AND INSPECTED PER		1705.2.2.1.2		× X	
					MANUFACTURER'S PRODUCT EVALUATION REPORT	WLLVING JITEAK KEINFUKGEMENI			^	
		50	SPENDED CEILING SYS	6TEM						
SUSPENDED CEILING SYSTEMS	808.1.1	ASTM C635 ASTM C636	SEE REMARKS	x	SUSPENDED CEILING TO BE INSTALLED AND INSPECTED PER MANUFACTURER'S PRODUCT EVALUATION REPORT	TARI F 2				

TABLE 3

		REQUIRED TE	STING SPECIAL I	NSPECTIONS		
		Т				
SYSTEM OR MANUAL	IBC CODE	CODE OR STANDARD	FREQU	JENCY	REMARKS	
	REFERENCE	REFERENCE	CONTINUOUS	PERIODIC		
		CC	DNCRETE			
CONCRETE STRENGTH	TABLE 1704.4 1903 1905	ASTM C39	EACH 150 CY NOR LESS THAN EACH 5000 SF		FABRICATE SPECIMENS AT TIME FRESH CONCRETE	
CONCRETE SLUMP		ASTM C143	OF SLAB OR WALL PLACED IS PLACED			
CONCRETE AIR CONTENT		ASTM C231				
CONCRETE TEMPERATURE		ASTM C1064				

TABLE 1

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		REQUIRED TES	OTING SPECIAL I	NSPECTIONS	
		TES	STING		
SYSTEM OR MANUAL	IBC CODE	CODE OR STANDARD	FREQ	UENCY	REMARKS
	REFERENCE	REFERENCE	CONTINUOUS	PERIODIC	
		S	TEEL		
MAGNETIC PARTICLE (MT) AND ULTRASONIC (UT) TESTING OF WELDS	1704.3.1.1	MT - AWS D1.1 6.14.4, UT - AWS D1.1 6.13 ¢ 6.14.3, AISC 360-N5	PER DR	AWING5	
PRE-INSTALLATION VERIFICATION OF PRETENSIONED HIGH STRENGTH BOLTS	1704.3.3	RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A 490 BOLTS - SECTION 7, AISC 360-N5.6	EACH COME DIAM LENGTH, GRAD BE USED IN	BINATION OF IETER, IE, AND LOT TO IN THE WORK	

TABLE 3

	REG	QUIRED TESTING FOR SE	ISMIC RESISTAN	ICE SPECIAL INS	SPECTIONS	
		TE				
SYSTEM OR MANUAL	IBC CODE	CODE OR STANDARD	FREQUENCY		REMARKS	
	REFERENCE	REFERENCE	CONTINUOUS	PERIODIC		
		9	DTEEL			
UT OF BASE METAL THICKER THAN 1-1/2" SUBJECT TO THROUGH -THICKNESS WELD SHRINKAGE STRAINS	1705.12.2	AISC 341 - J6 AWS D1.1 6.13 ¢ 6.14.3	BEHIND AND ADJACENT TO EACH WELD		IBC 1707.2 AND 1706.3 REQUIRE SPE INSPECTIONS AND RELATED TESTING FO	
MT OF K-AREA OF ROLLED WIDE FLANGE COLUMN WEBS ADJACENT TO DOUBLER/CONTINUITY PLATE WELDS	1705.12.2	AISC 341 - J6 AWS D1.1 6.14.4	EACH PLATE LOCATION		RESISTING SYSTEM TO COMPLY WITH TH ASSURANCE PLAN REQUIREMENTS OF A THE REGISTERED DESIGN PROFESSIONA	
MAGNETIC PARTICLE (MT) AND ULTRASONIC (UT) TESTING OF COMPLETE JOINT PENETRATION GROOVE (CJP) WELDS IN MATERIALS 5/16" THICK AND GREATER	1705.12.2	AISC 341 - J6 MT - AWS D1.1 6.14.4 UT - AWS D1.1 6.13 ¢ 6.14.3	UT 100% OF WELDS MT 25% OF WELDS REFER TO DRAWINGS FOR LOCATIONS		RESPONSIBLE CHARGE SPECIFIES THE WHICH SHOULD BE PROVIDED TO THE AS PART OF THE BID DOCUMENTS AN CLEARLY IDENTIFIED AS SUCH. AISC F	
MT OF THERMALLY CUT SURFACES OF BEAM COPES AND ACCESS HOLES AT WELDED SPLICES AND CONNECTIONS WHEN THE FLANGE THICKNESS EXCEEDS 1 1/2" FOR ROLLED SHAPES OR THE WEB THICKNESS EXCEEDS 1 1/2" FOR BUILT-UP SHAPES	1705.12.2	AISC 341 - J6 AWS D1.1 6.14.4	EACH LC	DCATION	THAT AISC 341 APPENDIX O, "QUALITY A PLAN," BE ADOPTED. AISC 341 INCLUDE COMMENTARY WHICH WILL BE HELPFUL ENGINEERS SPECIFYING PROJECT QA PL	
MT OF THE ENDS OF FLANGE WELDS FROM WHICH WELD TABS HAVE BEEN REMOVED	1705.12.2	AISC 341 - J6 AWS D1.1 6.14.4	EACH LC	OCATION		
		ARCHITECTURAL, MEC	HANICAL AND ELECTRI	CAL		
COMPONENT TESTING INCLUDING MOUNTING SYSTEMS OR ANCHORAGE IF CERTIFICATES OF COMPLIANCE ARE NOT AVAILABLE	1705.12.3	ASCE - SECTION 13.2.1, 13.2.2		X		



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COVERING CODE MICHGAN BUILDING CODE (MGC), 2015 EDITION DESIGN SOL BUCANNES PERSIBUE SOLDEAR STREAMER PERSIBUE SOLDEAR STREAMER PERSIBUE SOLDEAR STREAMER PERSIBUE STRUCTURAL STEEL: ASTM A35 (FY = 35 KS) ROLLED STEEL SHARES UNLESS NOTED ON THE DESIGN SOLDEAR STREAMER PERSISTENS ON THE DATA STREAM STREAM ASTM A35, GRADE ED - STEEL FILTE ASTM A35, GRADE AS AS DETENNIED BY METAL BULDING SUPPLIES TO FAR. GROF DESA LOAD AS DETENNIED BY METAL BULDING SUPPLIES INFO ASTM A35, GRADE AS AS DETENNIED BY METAL BULDING SUPPLIES TO FAR. GROF DESA LOAD AS DETENNIED BY METAL BULDING SUPPLIES INFO ASTM A35, GRADE AS AS DETENNIED BY METAL BULDING SUPPLIES DESIGN SHOW LOAD AND SHOW DIFTING PARAMETERS ARE AS TOLLOWS: CROUND SHOW LOAD AND SHOW DIFTING PARAMETERS ARE AS TOLLOWS: INFO ADD SHOW LOAD AND SHOW DIFTING PARAMETERS ARE AS TOLLOWS: INFO ADD SHOW LOAD AND SHOW DIFTING PARAMETERS ARE AS TOLLOWS: INFO ADD SHOW LOAD AND SHOW DIFTING PARAMETERS ARE AS TOLLOWS: INFO ADD DESIGN PARAMETERS ARE AS TOLLOWS:	VERNIG CODE INFORMATING CONTRACTORS AND SELECTIONS ASTM ASS, GRUE D ASTM ASSM ASSM ASSM ASSM ASSM ASSM ASSM	UCTURAL DESIGN CRITERIA	
STRUCTURAL STEEL: ASTM ASS2 (Ty = 50 KS) · KOLLED STEEL SHAPES UNLESS KOTED ON THE DRAMMES. ASTM ASS, GRADE & STEEL FITE ASTM ASS0, GRADE ASTEEL FITE ASTM ASS0, GRADE FITE ASTM ASS0, GRA	STRUCTURAL STEEL: ASTM A992 (Fy = 50 KS) - ROLED STEEL SHAPES UNLESS NOTED ON THE DAMMOS. ASTM A36 (Fy = 36 KS) - ROLED STEEL PRE ASTM A36 (Fy = 36 KS) - ROLED PRE CONTROL ON STEEL PRE ASTM A36, SADD E - RECENCILLAR AND ROLDD H93 ERIFTORCING STEEL: ASTM A615, GRADE E - RECENCILLAR AND ROLDD H93 CONCRETE: COCORETE: COCORET: COCORETE: C	GOVERNING CODE BUILDING RISK CATEGORY DESIGN SOIL BEARING PRESSURE MATERIAL STRENGTHS	MICHIGAN BUILDING CODE (MBC), 2015 EDITIO I 3000 PS
ASTM A392 (Fy = 50 KB) - ROLLED STEEL SHAPES UNLESS NOTED ON THE DRAWINGS. ASTM A36 (Fy = 36 KB) - ROLLED STEEL FLATES, CHAINELS, ANGLES, DARS, ADD RODS AN OTED ON THE DRAWINGS. ASTM A363, GRADE G TO FUEL ASTM A363, GRADE G CONCRETE: 4000 PB FOR ALL CONCRETE UNLESS SPECIFICALLY NOTED OTHERWISE. DEAD LOADS ROOF - FRE-ENGINEERED METAL BUILDING METAL DECK AS DETERMINED BY METAL BUILDING SUPPLIES CONCRETE: 4000 PB FOR ALL CONCRETE UNLESS SPECIFICALLY NOTED OTHERWISE. DEAD LOADS ROOF - FRE-ENGINEERED METAL BUILDING METAL DECK AS DETERMINED BY METAL BUILDING SUPPLIES COLLATERAL, MERP, FRE SPIRINLER AND CELLING TOTAL ROOF DRAD LOAD AS DETERMINED BY METAL BUILDING SUPPLIES COLLATERAL, MERP, FRE SPIRINLER AND CELLING TOTAL ROOF DRAD LOAD AS DETERMINED BY METAL BUILDING SUPPLIES ROOF C 20 F91 TOTAL ROOF DRAD LOAD AS DETERMINED BY METAL BUILDING SUPPLIES ROOF C 20 F91 TOTAL ROOF DRAD LOAD AS DETERMINED BY METAL BUILDING SUPPLIES ROOF 100 LOAD SOUCH DOL AND SAVE NOW REDUCIDE. DEDIGN SNOW LOAD AND SNOW DRIFTING FARAMETERS ARE AS FOLLOWS: GROUND SOUCH ADD (F) SNOW PROBAL FACTOR (G) 1.2 SNOW HERMAL PACTOR (G) SNOW ADD (F) SNOW HERMAL PACTOR (G) SNOW ADD (F) SNO	ASTM A992 (P) = 50 KB) - ROLED STEL SHATES UNLESS NOTED ON THE DRAWNOS. ASTM A36 (Fy - 36 KB) - ROLED STEL SHATES UNLESS NOTED ON THE DRAWNOS. ASTM A36 (KADE B) - ROLED STEL SHATES, CHANNELS, ANGLES, DAI ASTM A36 (KADE B) - ROLEN AND ROLED STEL SHATES ASTM A515 (RADE C) - RECTANGULAR AND ROLED THE DRAWNOS. ASTM A515 (RADE C) - RECTANGULAR AND ROLED THE DRAWNOS. ASTM A515 (RADE C) - RECTANGULAR AND ROLED STATES ASTM A515 (RADE C) - RECTANGULAR AND ROLED STATES ASTM A515 (RADE C) - ROLENS ASTRONOMICS ASTRONOMICS AND ROLED STATES ASTM A515 (RADE C) - ROLENS ASTRONOMICS ASTRONOMICS ASTRONOMICS AS DETERMINED BY METAL DUILDING SU CONCRETE: 4000 PSI FOR ALL CONCRETE UNLESS SPECIFICALLY NOTED OTHERWISE. NOTAL ROCE AS D ASTRONOMICS ASTRONOMICS AS DETERMINED BY METAL DUILDING SU COLATERA, MERP, FIRE SYRINGLIK AND COLING) TOTAL ROOF DEAD LOAD AS SOUT DRIFTING FARAMETERS ARE AS FOLLOWS: ROOM COLOR ROOF LOAD ON SOUT DRIFTING FARAMETERS ARE AS FOLLOWS: GROUND SHOW LOAD (F) FIAT MOOF SHOW LOAD (F) FIAT	STRUCTURAL STEEL:	
ASTM A36 (Fy = 36 K9) - K102 DISEL TLATE, CHANNELS, ANGLES, BASJ, AND RODS AN KOTED ON THE DRAWINGS. ASTM A50, GRADE C - RECTINICULTS TRUE TLATES, CHANNELS, ANGLES, BASJ, AND RODS AN KOTED ON THE DRAWINGS. ASTM A500, GRADE C - RECTINICULTS AND ROUND HSS REINFORCING STELL: ASTM A615, GRADE GO CONCRETE: 4000 PP FOR ALL CONCRETE UNLESS SPECIFICALLY NOTED OTHERWISE. DEAD LOADS ROOT - PRE-ENGINEERED METAL BUILDING ROOTING AS DETERMINED BY METAL BUILDING SUPPLIES COLLATERAL, MERP, FIRE SPIRINLER AND CELLING) TOTAL ROOT DRAD LOAD AS DETERMINED BY METAL BUILDING SUPPLIES COLLATERAL, MERP, FIRE SPIRINLER AND CELLING) TOTAL ROOT DRAD LOAD AS DETERMINED BY METAL BUILDING SUPPLIES ROOT 20 PSI TOTAL ROOT DRAD LOAD AS DETERMINED BY METAL BUILDING SUPPLIES ROOT 20 PSI TOTAL ROOT DRAD LOAD AS AS DETERMINED BY METAL BUILDING SUPPLIES ROOT 20 PSI TOTAL ROOT DRAD LOAD AND SHITTING FARAMETERS ARE AS FOLLOWS: BUILDING CODE: ROOT UNE LOADS ARE MON-REDUCIDE. DESIGN SNOW LOAD AND SNOW DRITTING FARAMETERS ARE AS FOLLOWS: SNOW PLOSUME FACTOR (C) 1.2 SNOW TREMAL FACTOR (C) 1.2 SNOW TREMAL FACTOR (C) 1.2 SNOW TREMAL FACTOR (C) 1.1 SNOW TREMAL FACTOR (C) 1.2 SNOW TREMAL FACTOR (C) 1.2 SNO	DAMMES AND TED ON THE DAMMES, ANOLES, DAMED AND TROP AND THE PARAMESES AND TED ON THE DAMMAGS. ASTM ASS, GRADE B ASTM ASS, GR	ASTM A992 (Fy = 50 KSI) -	- ROLLED STEEL SHAPES UNLESS NOTED ON THE
ATM AS9, GRADE B STELL PTE ASTM AS90, GRADE C - RECTANGULAR AND ROUND H33 REINFORCING STELL ASTM AG15, GRADE GO CONCRETE: 4000 PSI FOR ALL CONCRETE UNLESS SPECIFICALLY NOTED OTHERWISE. DEAD LOADS ROOT - FRE-ENGINEERED METAL BUILDING ROOT - FRE-ENGINEERED METAL BUILDING ROOTING AS SPECIFICALLY NOTED OTHERWISE. DEAD LOADS ROOT - FRE-ENGINEERED METAL BUILDING ROOTING AS SPECIFICALLY NOTED OTHERWISE. DEAD LOADS ROOTING AS SPECIFICALLY AND COLUMNS SPECIFIC METAL DECK AS DETERMINED DY METAL BUILDING SUPPLIED INC LOADS ROOT CAD LOAD AS SPECIFICALLY NOTED OTHERWISE. DEAD LOADS ROOT CAD LOAD AS SPECIFICALLY NOTED OTHERWISE. DEGINARY AND COLOR AND SMOUND DETINING PARAMETERS ARE AS FOLLOWS: CROUND SMOUND (DAD (P)) SMOUND COLOR AND SMOUND DETINING PARAMETERS ARE AS FOLLOWS: DEGINARY AND COLOR AND SMOUND DETINING PARAMETERS ARE AS FOLLOWS: DEGINARY AND COLOR AND SMOUND DETINING PARAMETERS ARE AS FOLLOWS: DAGE MOUND ROOT LIVE LOAD LEED IN DESIGN SMOUND SMOUND AND ROOT COLOR. DAGE MOUND SMOUND AND THE STRUCTURE, WARK WAY RELATED TO THE DETINICTURE, RECENTRO CONCOUNTER WOTH ALL DAWNINGS FOR RECTINING MATION RELATED TO THE DETINICTURE, RECENTRO DESIGN FOR DESIGN AS SPECIFICAL IN STRUCTURE, WARK AND RELEASED TO THE DETINICTURE, RECENTRO CONCOUNTER AND SALE OF REPORTS AND AS ANT AND	ATM ASO, GRADE G	ASTM A36 (Fy = 36 KSI) -	- ROLLED STEEL PLATES, CHANNELS, ANGLES, BARS,
REINFORCING STEEL: ASTM AG 15, GRADE GO CONCRETE: 4000 PIS FOR ALL CONCRETE UNLESS SPECIFICALLY NOTED OTHERWISE. DEAD LOADS ROOT - PRE-ENGINEERED METAL BUILDING ROOT - PRE-ENGINEERED METAL BUILDING ROOT - PRE-ENGINEERED METAL BUILDING METAL DECK AS DETERMINED BY METAL BUILDING SUPPLIE FEAUNING AS DETERMINED BY METAL BUILDING SUPPLIE FEAUNING AS DETERMINED BY METAL BUILDING SUPPLIE FEAUNING AS DETERMINED BY METAL BUILDING SUPPLIE TOTAL ROOT DEAD LOAD AS DETERMINED BY METAL BUILDING SUPPLIE IVE LOAD REDUCTIONS SHALL BE COMPUTED IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE. ROOF UVE LOADS ARE NON-REDUCIBLE. GROUND SNOW LOAD (P) TOTAL ROOT SNOW LOAD (P) SNOW LOAD DESIGN FARAMETERS ARE AS FOLLOWS: GROUND SNOW LOAD (P) SNOW NOW THERMAL PRECORD GUST) MINIMUM ROOF LIVE LOAD USED IN DESIGN SNOW LOAD DESIGN FARAMETERS ARE AS FOLLOWS: BASIC WIND SPEED (P) (3 SECOND GUST) MINIMUM ROOF LIVE LOAD USED IN DESIGN SNOW LOAD DESIGN FARAMETERS ARE AS FOLLOWS: BASIC WIND SPEED (P) (3 SECOND GUST) MINIMUM ROOF LIVE LOAD USED IN DESIGN SNOW LOAD DESIGN FARAMETERS ARE AS FOLLOWS: BASIC WIND SPEED (P) (3 SECOND GUST) MINIMUM ROOF LIVE LOAD USED IN DESIGN SNOW LOAD DESIGN FARAMETERS ARE AS FOLLOWS: BASIC WIND SPEED (P) (3 SECOND GUST) MINIMUM ROOF LIVE LOAD USED IN DESIGN SNOW LOAD DESIGN FARAMETERS ARE AS FOLLOWS: BASIC WIND SPEED (P) (3 SECOND GUST) MINIMUM ROOF LIVE LOAD USED IN THE STRUCTURE, IN ANY WAY RELATED TO THE SNOW LOAD DESIGN FARAMETERS ARE AS FOLLOWS: BASIC WIND SPEED (P) (3 SECOND GUST) MINIMUM ROOF LIVE LOAD USED TO THE STRUCTURE, IN ANY WAY RELATED TO THE SNOWLCOND THE ALTRO RECOVER LEVINCES, AND STRUCTURE, IN ANY WAY RELATED TO THAC SNOWLCOND THE ALTRO RECOVER LEVINCES, AND STRUCTURE, IN ANY WAY RELATED TO THAC SNOWLCOND THE ALTRO RECOVER LEVINCES AND STRUCTURES AND ALL BE RECOVERED TO THAC MINIMUM ROOF LIVE LOADS, OTHINGS, AND STRUCTURE, IN ANY WA	REINFORCING STEEL: ASTM AS 15, GRADE 60 CONCRETE: 4000 PSH TOR ALL CONCRETE UNLESS SPECIFICALLY NOTED OTHERWISE. ADD 200 CP - FRE EINGNEERED METAL DUILDING NOTING ADD 200 CP - FRE EINGNEERED METAL DUILDING NOTING ADD 200 COLLATERAL MARE, TRE SPRINLER NO CETEXNINED BY METAL DUILDING SU COLLATERAL MARE, TRE SPRINLER NO CETEXNING TOTAL ROOF DEAD LOAD AS DETEXNINED BY METAL DUILDING SU COLLATERAL MARE, TRE SPRINLER NO CETEXNING COLLATERAL MARE, TRE SPRINLER NO CETEXNING COLOR SNOW LOAD IND SNOW DRITING PRAMETERS ARE AS FOLLOWS: SO MON DOOD DESKIN FRAMETERS ARE AS FOLLOWS: SO MON DOOD SNOW COND OND 1 10 DOOD DESKIN FRAMETERS ARE AS FOLLOWS: SO MON DOOD DESKIN FRAMETERS ARE AS FOLLOWS: SO MON DOOD DESKIN FRAMETERS ARE AS FOLLOWS: SO DUAD SPEED (N), (S SCOON GUS) 1 11 EX DE DOOD DESKIN FRAMETERS ARE AS FOLLOWS: SO MON DO DESKIN FRAMETERS ARE AS FOLLOWS: SO MON	ASTM A53, GRADE B - ASTM A500, GRADE C -	- Steel Pipe - Rectangular and Round HSS
ASTM AG15, GRADE GO CONCRETE: 4000 PSI FOR ALL CONCRETE UNLESS SPECIFICALLY NOTED OTHERWISE. EAD LOADS ROOF - PRE-ENGINEERED METAL BUILDING ROOFING AS DETERMINED BY METAL BUILDING SUPPLIEF RAMING AS DETERMINED BY METAL BUILDING SUPPLIEF COLLITERAL (MOP, FIRE SPRINKLER AND CEUING) S PM TATA. BUILDING SUPPLIEF COLLITERAL (MOP, FIRE SPRINKLER AND CEUING) S PM TOTAL ROOF DEAD LOAD AS DETERMINED BY METAL BUILDING SUPPLIEF COLLITERAL (MOP, FIRE SPRINKLER AND CEUING) S PM TOTAL ROOF DEAD LOAD AS DETERMINED BY METAL BUILDING SUPPLIEF COLLITERAL (MOP, FIRE SPRINKLER AND CEUING) S PM TOTAL ROOF DEAD LOAD AS DETERMINED BY METAL BUILDING SUPPLIEF COLLITERAL (MOP, FIRE SPRINKLER AND CEUING) EVELOAD BEDUCTIONS SHALL BE COMPUTED IN ACCORDANCE WITH THE MICHGAM BUILDING CODE, ROOF UVE LOADS ARE NON-REDUCIDLE. EDESION SNOW LOAD AND SNOW DRIFTING PARAMETERS ARE AS FOLLOWS: GROUND SNOW LOAD AND SNOW DRIFTING PARAMETERS ARE AS FOLLOWS: GROUND SNOW LOAD AND SNOW DRIFTING PARAMETERS ARE AS FOLLOWS: GROUND SNOW LOAD AND SNOW DRIFTING PARAMETERS ARE AS FOLLOWS: MINDUM ROOF UVE LOAD SEND IN EDESIGN S OW PROSULER ACTOR (C,) S OF PF + DEMIT SNOW PROSULER ACTOR (C,) S OW THERMAL FRASTOR (C,) S OW THERMAL FACTOR (C,) S OW THERMAL STALL BE CORNEL SY THERMA FILL S	ASTM AG 15, GRADE GO CONCRETE: 4000 PSI FOR ALL CONCRETE UNLESS SPECIFICALLY NOTED OTHERWISE. 4010AD5 CF - FRE-ENGINEERED METAL BUILDING CF - FRE-ENGINEERED METAL BUILDING SU MITAL DCK AS DETERMINED BY METAL BUILDING SU MITAL DCK AS DETERMINED BY METAL BUILDING SU COLATERAL (METY, FRE SPRINKLER AND CELING) TOTAL ROOF DEAD LOAD AS DETERMINED BY METAL BUILDING SU COLATERAL (METY, FRE SPRINKLER AND CELING) COLATERAL (METY) COLAD GO (LOAD (P)) COLAD (P) CO	REINFORCING STEEL:	
CONCRETE: 4000 P3 FOR ALL CONCRETE UNLESS SPECIFICALLY NOTED OTHERWISE. DEAD LOADS ROOF - PRE-ENGINEERED METAL BUILDING ROOF ING ALL SOURCE AND DETERMINED BY METAL BUILDING SUPPLIEF METAL DECK. AS DETERMINED BY METAL BUILDING SUPPLIEF INTER LOCK AND SPECIFICAL PROVIDED BY METAL BUILDING SUPPLIEF COLLAREAL (MEP, FIRE SPRINKLER AND CELINIG) 5 F31 TOTAL BOOF DEAD LOAD AS DETERMINED BY METAL BUILDING SUPPLIEF INTE LOAD EBOLUTIONS SHALL BE COMPUTED IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE, ROOF LIVE LOADS ARE NON-REDUCIBLE. DESIGN SNOW LOAD AND SNOW DRIFTING PARAMETERS ARE AS FOLLOWS: GROUND SNOW LOAD AND SNOW DRIFTING PARAMETERS ARE AS FOLLOWS: GROUND SNOW LOAD AND SNOW DRIFTING PARAMETERS ARE AS FOLLOWS: GROUND SNOW LOAD AND SNOW DRIFTING PARAMETERS ARE AS FOLLOWS: GROUND SNOW LOAD AND SNOW DRIFTING PARAMETERS ARE AS FOLLOWS: GROUND SNOW LOAD AND SNOW DRIFTING PARAMETERS ARE AS FOLLOWS: GROUND SNOW LOAD MAD SNOW DRIFTING PARAMETERS ARE AS FOLLOWS: GROUND SNOW LOAD MAD SNOW DRIFTING PARAMETERS ARE AS FOLLOWS: BASIC MIND SPECID IVE LOAD DEDISIN WIND LOAD DESIGN PARAMETERS ARE AS FOLLOWS: BASIC MIND SPECID IVE LOAD DEDISIN WIND LOAD DESIGN PARAMETERS ARE AS FOLLOWS: BASIC MIND SPECID IVE LOAD DEDISING TAT NO CONTON RELATED TO THE STRUCTURAL WORK, ANY CORNECS FOR PERTINENT INFORMATION RELATED TO THE STRUCTURAL WORK, ANY CORNECS, AND STRUCTURE, IN ANY WAY RELATED TO THE STRUCTURAL WORK, ANY CONNECTS AT NO CONTO THE OWNER ARE AND SUBMITTER OF TREASER CONTOCENT EQUIPMENT FRAMENCE DATE OF THE SUBLIDING CONTON THE FERTING ECOLOMENT SUBLING RECORDS FOR THEIR THE NO CONTO THE OWNER ARE AND SUBMITTER OF TREASER AND SUBJERT AS AT NO CONTONE OF THE PERTING ECOLOMENT SUBJER DEDISED STRUCTURE, IN ANY WAY RELATED TO THAG SUBJER SCIENCESS, ELECTRICAL, ELEVATOR, OR TEGLATOR REQURRENTING ARE SHOW THE CONTRACTORS REPORTISIONED TO THE DUILDING AND THE STRUCTURES AND SUBMIT SCIENCESS, ELECTRICAL, ELEVATOR, OR THE DUILDING AND THE STRUCTURES AND SUBMIT SCIENCESS, ELECTRICAL DERISONS SUCTO THE STRUC	CONCRETE: 4000 PSI FOR ALL CONCRETE UNLESS SPECIFICALLY NOTED OTHERWISE. AD LOADS GP - FRE-ENGINEERED METAL BUILDING METAL DECK AD DETEXNINED BY METAL BUILDING BY METAL DECK METAL DECK AD DETEXNINED BY METAL BUILDING BY METAL DECK METAL	ASTM AG15, GRADE 60	
4000 P91 FOR ALL CONCRETE UNLESS SPECIFICALLY NOTED OTHERWISE. DEAD LOADS ROOF - PRE-ENGINEERED METAL BUILDING ROOFING AS DETERMINED BY METAL BUILDING SUPPLIEF METAL DUCK AS DETERMINED BY METAL BUILDING SUPPLIEF COLLITERAL (MEP, FIRE SPENIALER AND CELING) S P191 TOTAL ROOF DEAD LOAD AS DETERMINED BY METAL BUILDING SUPPLIEF COLLITERAL (MEP, FIRE SPENIALER AND CELING) S P191 TOTAL ROOF DEAD LOAD AS DETERMINED BY METAL BUILDING SUPPLIEF UNE LOAD REDUCTIONS SMALL BE COMPUTED IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE, ROOF LIVE LOADS ARE NON REDUCIDEL. DESIGN SNOW LOAD AND SNOW DRIFTING PARAMETERS ARE AS POLLOWS: GROUND SNOW LOAD (P) 3 S P39 TOTA ROOF SNOW LOAD (P) 1 S S P39 TOTA ROOF SNOW LOAD (P) 1 S S P39 TOTA ROOF SNOW LOAD (P) 1 S S P39 SNOW MEDDANE, IACTOR (C) 1 2 SNOW MEDDANE, IACTO	4000 PSI TOR ALL CONCRETE UNLEDS SPECIFICALLY NOTED OTHERWISE. AD LOADS OF - FRE-ENGINEERED METAL BUILDING METAL DCCK AS DETERMINED BY METAL BUILDING SU METAL DCCK AS DETERMINED BY METAL BUILDING SU METAL DCCK AS DETERMINED BY METAL BUILDING SU COLLATERAL (MEP, FRE SPRINKLER ADD CELING) TOTAL ROOF DEAD LOAD AS DETERMINED BY METAL BUILDING SU LOADS ROOF CASE DESIGN AND AND STATE AND CELING ROOF DEAD LOAD AS DETERMINED BY METAL BUILDING SU LOADS ROOF LOAD LOAD AND SHOW DRIFTING PARAMETERS ARE AS FOLLOWS: GROUND SHOW LOAD AND SHOW DRIFTING PARAMETERS ARE AS FOLLOWS: GROUND SHOW LOAD AND SHOW DRIFTING PARAMETERS ARE AS FOLLOWS: SHOW TOOD INFORMACE TACTOR (C) SHOW TOOD INFORMACE TO THE STRUCTURAL SYSTEMS SHALL BE KE DE ALL CONDITIONS COLTARAL WORK, AND CHANGES TO THE STRUCTURAL SYSTEMS SHALL DE KE DE ALL CONDITIONS SHOW TOOD INFORMACE TO THE STRUCTURAL SYSTEMS SHALL DE KE DE ALL CONDITIONS SHOW TOOLS (AND CHANGES TO THE STRUCTURAL SYSTEMS SHALL DE KE DE ALL CONDITIONS SHOW THE CAST (C) SCOND COST 10 THE OWNER (C) A NOT STRUCTURAL WORK, AND CHANGES TO THE STRUCTURAL SYSTEMS SHALL DE KE DE ALL CONDITIONS SHOW THE CONTRACTORS (C) AND STRUCTURE, IN ANY WY RELATED TO THE UNITARIL TO THE AFTER OR REVIEW SHALL DE BORNE BY THE APPROPRIATE NITRACTOR. SOUCHTACTORS SHOW THIS AND THE CONTRACTORS AND STRUCTURE IN THE CONTRACTORS SEEDONS SHUL TO THE APPROPRIATE NITRACTOR. SOUCHTACTORS SHALL EXAMPLE TO THE SHULTON AND THE APPROPRIATE STRUCTURE IN THE SECTOR ONE SHALL DE DORNE BY THE APPROPRIATE SOUCHTACTORS SHALL EXAMPLE TO THE BUILDING AND STRUCTURED DI NITRACTORS SHALL KE MEEDSARY PRECUTIONS TO WITTRATION OF THE SUBJECTIONE HORE TO COMPETED ON THE WUILDING SHOW AND THE SUBJECTIONE HORE TO COMPETED AND THE SHULTON OF THE SUBJECTIONE AND CONTRACTORS SHALL EXAMPLE FOR THE WUILDING SHOW AND THE SUBJECTIONE HORE SHOLD DESCREE DOR SHALL T	CONCRETE:	
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ROOF - PRE-ENGINEERED METAL BUILDING ROOF - PRE-ENGINEED DE METAL BUILDING SUPPLIEF ROOFING AS DETERMINED DE METAL BUILDING SUPPLIEF PAMING ALD DECK MINEL OF METAL BUILDING SUPPLIEF COLLITERAL (MEP, FIRE SPRINKLER AND CELING) 5 757 TOTAL ROOP DEAD LOAD AS DETERMINED DE METAL BUILDING SUPPLIEF LIVE LOADS ROOF 20 FP3 LOADS ROOF 20 FP3 LOADS ROOF LIVE LOADS ARE NON REDUCIBLE. DESIGN SNOW LOAD AND SNOW DRITING PARAMETERS ARE AS FOLLOWS: GROUND SNOW LOAD (P) 3 5 757 FLAT ROOF SNOW LOAD (P) 3 5 757 HAT ROOF SNOW LOAD (P) 1 5 5 757 HAT ROOF SNOW LOAD (P) 1 5 5 757 HAT ROOF SNOW LOAD (P) 1 15 5 777 HAT ROOF SNOW LOAD (P) 1 15 5 777 HAT ROOF SNOW LOAD (P) 1 15 5 777 HAT ROOF SNOW LOAD (P) 1 15 5 777 HAT ROOF SNOW LOAD USED IN DESIGN WIND LOAD DESIGN PARAMETERS ARE AS FOLLOWS: BASIC WIND SPEED (P) (S) SECOND GUST) 1 15 5 777 HAT ROOF SNOW LOAD SOUTH (P) 115 5 777 C 0 175 HAT ROOF SNOW LOAD (P) 1 15 5 777 C 0 175 CONCENTRATION RELATED TO THE STRUCTURAL SYSTEME STALL BE EXCERDENCE AT EXCENTS FINISTERME PRESENCE COEFFICIENT ± 0.16 HEEAL CONDITIONS CONCENTRATION RELATERS ARE AS FOLLOWS: BUBINTER DETTING DETING PARAMETERS ARE AS FOLLOWS: BUBINTER DETITE AS TRUE TRUE AS THAL DE ACNOWLEDED IN WRITING EDEFORE ECRIVING PROFESSIONL CONTRACTOR SNOT THE WINE ROW RA ARD 15 FINISTERME PROFESSIONL COEFFICIENT ± 0.16 EEAL CONDITIONS CONCENTRATION SELECTICAL, LEVATOR, OR 5ECALATOR REGULEREMENTS ARE SHOW FOR BODING METAL DEADS SNOT CONTRACTOR SNOT AND THE STRUCTURAL DESIGN BY THE APPROPRIATE CONTRACTORS SEED FOR EXPENSIBLE TO THE APPROPRIATE CONTRACTORS SEED FORMER TO THE STRUCTURAL DESIGN BAT THE OR THE APPROPRI	OP - PRE-ENGINEERED METAL BUILDING SU ROOTING AD DETERMINED BY METAL BUILDING SU COLLATERAL (MREP, THE SPIRIKLER AND CELINICI TOTAL ROOT DEAD LOAD AD DETERMINED BY METAL BUILDING SU E LOADS ROOT 2 GOLD DEDUCTIONS SHALL BE COMPUTED IN ACCORDANCE WITH THE MICHIGAN LIDING CODE, ROOT LIVE LOADS ARE NON-REDUCIPLE. BIGN SNOW LOAD AND SNOW DRIFTING PARAMETERS ARE AS FOLLOWS: GROUND SNOW LOAD (P) 30 PEF + SNOW TREMAL RECTOR (C)	DEAD LOADS	
ROOPING AS DETERMINED BY METAL BUILDING SUPPLIES METAL DECK AS DETERMINED BY METAL BUILDING SUPPLIES COLLATERAL (MEP, FIRE SPRINKLER AND CELING) S PARTINING TOTAL ROOP DEAD LOAD AS DETERMINED BY METAL BUILDING SUPPLIES IVE LOADS ROOP 20 PSI IVE LOADS AS DETERMINED BY METAL BUILDING SUPPLIES IVE LOADS ROOP 20 PSI IVE LOADS SMALL BE COMPUTED IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE, ROOP LIVE LOADS ARE NON-REDUCIDELE. DESIGN SNOW LOAD (P) 35 PSF DESIGN SNOW LOAD (P) 30 PSF + DRIFT 30 PSF + DRIFT SNOW TERMUL PACTOR (C) 1.0 30 PSF + DRIFT SNOW TICAD (P) 30 PSF + DRIFT 30 PSF + DRIFT SNOW TERMUL PACTOR (C) 1.0 30 PSF + DRIFT SNOW TERMUL PACTOR (C) 1.0 30 PSF + DRIFT SNOW TERMUL PACTOR (C) 1.0 30 PSF + DRIFT SNOW TERMUL PACTOR (C) 1.0 30 PSF + DRIFT SNOW TERMUL PACTOR (C) 1.0 30 PSF + DRIFT SNOW TERMUL PACTOR (C) 1.0 30 PSF + DRIFT SNOW TERMUL PACTOR (C)	ROOFING ADDETERMINED BY METAL BUILDING SU METAL DECK ADD DETERMINED BY METAL BUILDING SU COLLATERAL (MEP, THE SPRINKLER AND CELLING) TOTAL ROOF DEAD LOAD AD SOUCH STRUCTURE AND CELLING E LOADS ROOF CALL BOLOF DEVELOAD AND SHALL DE COMPUTED IN ACCORDANCE WITH THE MICHAE LIDING CODE, ROOF LIVE LOADS ARE NON-REDUCIBLE. SIGN SNOW LOAD AND SNOW DRIFTING PARAMETERS ARE AS FOLLOWS: GROUND SNOW LOAD DRIP FLAT ROOF SNOW LOAD (F) SNOW ROOBURE FACTOR (G) SNOW TROBUKE CATEGORY C) CENNAL PROBUKE CONFLICENT C) C ENNAL RESULT (CONFLICENT C) C ENNAL RESULT (CONFLICENT) C) C ENNAL RESULT (CONFLICENT) C) C) C ENNAL RESULT (CONFLICENT) C) C) C ENTAL RESULT (CONFLICENT) C) C) C) C) C) C) C) C) C) C	ROOF - PRE-ENGINEERED METAL BU	JILDING
CULLERAL (WEP, THE STRUCER AND CELLING) S FOR TOTAL ROOF DEAD LOAD AS DETERMINED BY METAL BUILDING SUPPLIES ILVE LOADS ROOF 20 FOR ROOF 20 FOR 20 FOR UNE LOAD REDUCTIONS SHALL BE COMPUTED IN ACCORDANCE WITH THE MICHIGAN BUILDING CORE. ROOF LIVE LOADS ARE NON-REDUCIBLE. DESIGN SNOW LOAD AND SNOW DRITTING PARAMETERS ARE AS FOLLOWS: GROUND SNOW LOAD (P) 35 FOR SNOW LOAD NOW TERMAL FRACTOR (C) 1.2 1.0 SNOW THERMAL FRACTOR (C) 1.2 SNOW THERMAL FRACTOR (C) 1.15 MPH WIND LOAD DESIGN FRAMETERS ARE AS FOLLOWS: BASIC WIND SPEED (Y), (S SECOND GUST) 115 MPH MINIMUM ROOP LIVE LOAD USED IN DESIGN 30 FOR STRUCTURAL WORK: ANY CHANGES FOR PERTINENT INFORMATION RELATED TO THE STRUCTURAL WORK: ANY CHANGES FOR THE STRUCTURAL SYSTEMS SHALL BE RE-DESIGNE EVENUE CONTINUE ON STRUCTURAL SHALL BE RE-DESIGNE CONTINUE CONTRUCTOR SUBMITTED TO THE AFF FOR REVIEW, SUBMITTAL SHALL DE ACKNOWLEDGED IN WRITING CONTRUCTOR SUBMITTED TO THE AFF FOR REVIEW, SUBMITTAL SHALL DE ACKNOWLEDGED IN WRITING EFF AFF FOR THE ANY WAY RELATED TO THE SUBMITTED TO THE AFF FOR REVIEW, SUBMITTAL SHALL DE ACKNOWLEDGED IN WRITING ENDITION THE AFF FOR REVIEW, SUBMITTAL SHALL DE ACKNOWLEDGED IN WRITING </td <td>COLULATERAL INVERT, THE SPRINKLER AND CELINICU TOTAL ROOF DEAD LOAD AS DETERMINED BY METAL BUILDING SU E LOADS ROOF 2 E LOADS 2 E LOAD EDUCTIONS SHALL BE COMPUTED IN ACCORDANCE WITH THE MICHIGAN LIDING CODE. ROOF LIVE LOADS ARE NON-REDUCIBLE. 30 SIGN SNOW LOAD (PA) 30 95 + SNOW DOAD OF LIVE LOAD SARE NON-REDUCIBLE. 30 95 + SNOW LOAD (PA) 30 95 + SNOW LOAD (PA) 30 95 + SNOW LOAD (PA) 30 95 + SNOW LOAD PROFILACE FACTOR 30 95 + SNOW LOAD DESION PARAMETERS ARE AS FOLLOWS: 30 96 + SIC WIND SPEED (V), (3 SECOND GUST) 11 15 20 DI DAD DESION PARAMETERS ARE AS FOLLOWS: 30 96 + SIC WIND SPEED (V), (3 SECOND GUST) 11 15 20 ORDINATE WITH ALL DRAWINGS FOR PERTINENT INFORMATION RELATED TO THE SURDER AS NO COST TO THE OWNER ARE AND SOLAL PERTONNA 30 YOUT THE HALL DRAWINGS FOR PERTINENT INFORMATION RELATED TO THE SURDIRA, WORK, ANY CHANCES TO THE SURDER AS NO COST TO THE OWNER ARE AND COST TO THE OWNER</td> <td>ROOFING METAL DECK FRAMING</td> <td>AS DETERMINED BY METAL BUILDING SUPPLI AS DETERMINED BY METAL BUILDING SUPPLI AS DETERMINED BY METAL BUILDING SUPPLI</td>	COLULATERAL INVERT, THE SPRINKLER AND CELINICU TOTAL ROOF DEAD LOAD AS DETERMINED BY METAL BUILDING SU E LOADS ROOF 2 E LOADS 2 E LOAD EDUCTIONS SHALL BE COMPUTED IN ACCORDANCE WITH THE MICHIGAN LIDING CODE. ROOF LIVE LOADS ARE NON-REDUCIBLE. 30 SIGN SNOW LOAD (PA) 30 95 + SNOW DOAD OF LIVE LOAD SARE NON-REDUCIBLE. 30 95 + SNOW LOAD (PA) 30 95 + SNOW LOAD (PA) 30 95 + SNOW LOAD (PA) 30 95 + SNOW LOAD PROFILACE FACTOR 30 95 + SNOW LOAD DESION PARAMETERS ARE AS FOLLOWS: 30 96 + SIC WIND SPEED (V), (3 SECOND GUST) 11 15 20 DI DAD DESION PARAMETERS ARE AS FOLLOWS: 30 96 + SIC WIND SPEED (V), (3 SECOND GUST) 11 15 20 ORDINATE WITH ALL DRAWINGS FOR PERTINENT INFORMATION RELATED TO THE SURDER AS NO COST TO THE OWNER ARE AND SOLAL PERTONNA 30 YOUT THE HALL DRAWINGS FOR PERTINENT INFORMATION RELATED TO THE SURDIRA, WORK, ANY CHANCES TO THE SURDER AS NO COST TO THE OWNER ARE AND COST TO THE OWNER	ROOFING METAL DECK FRAMING	AS DETERMINED BY METAL BUILDING SUPPLI AS DETERMINED BY METAL BUILDING SUPPLI AS DETERMINED BY METAL BUILDING SUPPLI
IUNE NODI DEBU COND ACCULINAMILED OF MILLED BUILDING SOFTED IUNE LOADS ROOF 20 F97 IUNE LOAD REDUCTIONS SHALL BE COMPUTED IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE, ROOF LUXE LOADS ARE NON-REDUCIBLE. DESIGN SNOW LOAD AND SNOW DRIFTING PARAMETERS ARE AS FOLLOWS: GROUND SNOW LOAD (P.) 35 F97 PLAT ROOF SNOW LOAD (P.) 35 F97 SNOW THERMAL PACTOR (C.) 1.0 30 P97 + DRIFT SNOW EXFORM INFORTANCE FACTOR 1.0 SNOW THERMAL PACTOR (C.) 1.15 MPH 30 P97 SNOW THERMAL PACTOR (C.) 1.15 MPH SNOW LOAD DESIGN PARAMETERS ARE AS FOLLOWS: BASIC WIND SPEED (M.) (S SECOND GUST) 115 MPH MININ LOAD DESIGN PARAMETERS ARE AS FOLLOWS: INTERNAL PRESSURE COEFFICIENT ±0.16 VERL CONDITIONS COORDINATE WITH ALL DRAWINGS FOR PERTINENT INFORMATION RELATED TO THE STRUCTURAL WORK. ANY CHANGES TO THE STRUCTURAL SYSTEMS SHALL BE ACKNOWLEDGED IN WRITING BEFORE BEGINING CONSTRUCTION EQUIPMENT FRAMING LOADS, OPENINGS, AND STRUCTURAL MYSTEMS SHALL BE ACKNOWLEDGED IN WRITING BEFORE BEGINING CONSTRUCTION GUIDING FURPOSES ONLY. CONTRACTORS SHALL OF AN APPROVAL OF THE FIRENTE LOUMAINT FRAMING LOADS, OPENINGS, AND STRUCTURE, IN ANY WAY RELATED TO THAY AND SCOULER AND SCOULECS TO THE STRUCTURE, AS STOLLOWS GUIDING FURPOSES, DUBLY CONTRACTOR SHALL OPTION APPROVAL OF THE FIRENTE LOUMAING REACTORY. SUBJECT AND PERMEMENT AND THE RECESSI	COLLEMINED OF MEDIDIDIDIDIDIDIDIDIDIDIDIDIDIDIDIDIDIDI	COLLATERAL (M/E/P, FIRE SPRIN	AG DETERMINED BY METAL BUILDING GURPHI
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THE STRUCTURE HAS BEEN DESIGNED FOR THE UNIFORM LOADS INDICATED IN ADDITION ' THE CONCENTRATED LOADS REQUIRED BY THE BUILDING CODE. THE STRUCTURAL DESIGN SUB-CONTRACTORS SHALL TAKE NECESSARY PRECAUTIONS TO WITHSTAND ALL HORIZONTAL AND VERTICAL LOADINGS THAT MAY BE ENCOUNTERED DURING CONSTRUCTION PRIOR TO COMPLETION OF THE BUILDING. SUCH CONSTRUCTION LOADINGS INCLUDE, BUT ARE NOT LIMITED TO, LOADS FROM CRANES, LIFTS, DOLLIES, AN HOISTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE EVALUATION OF THE IMPAC OF SUCH LOADS ON THE STRUCTURE AND PROVIDING TEMPORARY SHORING, BRACING, C REINFORCEMENT AS REQUIRED. SEE THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR AND SHALL CONFORM TO THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS. REPORT ALL DISCREPANCIES TO THE A/E FOR RESOLUTION BEFORE PROCEEDING. THE CONTRACTOR SHALL SUPPORT, BRACE, AND SECURE EXISTING STRUCTURES AS REQUIRED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF EXISTING STRUCTURES DURING CONSTRUCTION. FIELD VERIFY ALL EXISTING DIMENSIONS WHICH AFFECT THE NEW CONSTRUCTION PRIOR TO FINAL DETAILING AND FABRICATION OF NEW STRUCTURAL ELEMENTS. CONCRETE REINFORCING CLEAR COVER REQUIREMENTS CONCRETE CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND #5 BAR AND DARGER 1-1/2" #6 BAR AND SMALLER 1-1/2" #6 BAR AND SMALLER 1-1/2" #6 BAR AND SMALLER 2" CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND #5 BAR AND SUBLES TO WEATHER OR IN CONTACT WITH GROUND #5 BAR AND SUBLES TO WEATHER OR IN CONTACT WITH GROUND SLABS, JOISTS, AND WALLS (NOT LARGER THAN #11 BAR) 3/4" BEAMS, COLUMNS, PIERS 1-1/2" NOTE: CLEAR COVER DIMENSIONS LISTED ARE CODE-REQUIRED MINIMUMS. PROVIDE GREATER COVER WHERE SPECIFICALLY REQUIRED BY DETAILS.	 STRUCTURE HAS BEEN DESIGNED FOR THE UNIFORM LOADS INDICATED IN ADDI CONCENTRATED LOADS REQUIRED BY THE BUILDING CODE. THE STRUCTURAL DA BASED SOLELY ON THE BUILDING IN ITS COMPLETED STATE. CONTRACTORS AND B-CONTRACTORS SHALL TAKE NECESSARY PRECAUTIONS TO WITHSTAND ALL RIZONTAL AND VERTICAL LOADINGS THAT MAY BE ENCOUNTERED DURING INSTRUCTION PRIOR TO COMPLETION OF THE BUILDING, SUCH CONSTRUCTION ADINGS INCLUDE, BUT ARE NOT LIMITED TO, LOADS FROM CRANES, LIFTS, DOLLI 1975. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE EVALUATION OF THE I SUCH LOADS ON THE STRUCTURE AND PROVIDING TEMPORARY SHORING, BRAC NFORCEMENT AS REQUIRED. THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN ON THE RUCTURAL DRAWINGS. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCT WAYNGS SHALL BE VERIFIED BY THE CONTRACTOR AND SHALL CONFORM TO THO DWN ON THE ARCHITECTURAL DRAWINGS. REPORT ALL DISCREPANCIES TO THE A SOLUTION BEFORE PROCEDING. CONTRACTOR SHALL SUPPORT, BRACE, AND SECURE EXISTING STRUCTURES AS 2014ED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF EXISTIN RUCTURES DURING CONSTRUCTION. FIELD VERIFY ALL EXISTING DIMENSIONS WHI 4°CT THE NEW CONSTRUCTION FROR TO FINAL DETAILING AND FABRICATION OF RUCTURAL ELEMENTS. DNCRETE REINFORCING CLEAR COVER REQUIREMENT VCRETE CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND 4°S BAR AND SMALLER 1-1, 4°G BAR AND SMALLER 1-1, 4°G BAR AND MALLER 0R IN CONTACT WITH GROUND 5LABS, JOISTS, AND WALLS (NOT LARGER THAN #11 BAR) 3/4' BEAMS, COLUMNS, PIERS 1-1, 1, 17 RE A COVER DIMENSIONS LISTED ARE CODE-REQUIRED MINIMUMS. PROVIDE GREA VER WHERE SPECIFICALLY REQUIRED BY DETAILS. UNBALANCED SHOW LOADING 	PROCEDURE AND SEQUENCES TO E COMPONENTS DURING ERECTION. 1 OF TEMPORARY BRACING, SHORING	INSURE THE SAFETY OF THE BUILDING AND ITS THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITIO G, GUYS, OR TIE-DOWNS THAT MAY BE NECESSARY.
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THE CONTRACTOR SHALL SUPPORT, BRACE, AND SECURE EXISTING STRUCTURES AS REQUIRED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF EXISTING STRUCTURES DURING CONSTRUCTION. FIELD VERIFY ALL EXISTING DIMENSIONS WHICH AFFECT THE NEW CONSTRUCTION PRIOR TO FINAL DETAILING AND FABRICATION OF NEW STRUCTURAL ELEMENTS. CONCRETE REINFORCING CLEAR COVER REQUIREMENTS CONCRETE CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND 3" CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND 4" #5 BAR AND SMALLER 1-1/2" #6 BAR AND SMALLER 2" CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND SLABS, JOISTS, AND WALLS (NOT LARGER THAN #11 BAR) 3/4" BEAMS, COLUMNS, PIERS 1-1/2" NOTE: CLEAR COVER DIMENSIONS LISTED ARE CODE-REQUIRED MINIMUMS. PROVIDE GREATER COVER WHERE SPECIFICALLY REQUIRED BY DETAILS.	CONTRACTOR SHALL SUPPORT, BRACE, AND SECURE EXISTING STRUCTURES AS QUIRED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF EXISTIN RUCTURES DURING CONSTRUCTION. FIELD VERIFY ALL EXISTING DIMENSIONS WHI FECT THE NEW CONSTRUCTION PRIOR TO FINAL DETAILING AND FABRICATION OF RUCTURAL ELEMENTS. DNCRETE REINFORCING CLEAR COVER REQUIREMEN NCRETE CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND #5 BAR AND SMALLER NCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND #5 BAR AND SMALLER NCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND SLABS, JOISTS, AND WALLS (NOT LARGER THAN #11 BAR) NCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND SLABS, COLUMNS, PIERS 1-1, FE: AR COVER DIMENSIONS LISTED ARE CODE-REQUIRED MINIMUMS. PROVIDE GREA VER WHERE SPECIFICALLY REQUIRED BY DETAILS. 8' - 2'' 43.5 PSF 9 9 1 1 1 1 1 1 1 1	SEE THE ARCHITECTURAL DRAWING STRUCTURAL DRAWINGS. ALL DIMEN DRAWINGS SHALL BE VERIFIED BY T SHOWN ON THE ARCHITECTURAL DE RESOLUTION BEFORE PROCEEDING	S FOR ALL DIMENSIONS NOT SHOWN ON THE NSIONS AND ELEVATIONS SHOWN ON THE STRUCTUR. THE CONTRACTOR AND SHALL CONFORM TO THOSE RAWINGS. REPORT ALL DISCREPANCIES TO THE A/E FO
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NUTE: CLEAR COVER DIMENSIONS LISTED ARE CODE-REQUIRED MINIMUMS. PROVIDE GREATER COVER WHERE SPECIFICALLY REQUIRED BY DETAILS.	AR COVER DIMENSIONS LISTED ARE CODE-REQUIRED MINIMUMS. PROVIDE GREA VER WHERE SPECIFICALLY REQUIRED BY DETAILS.	CONCRETE NOT EXPOSED TO WEATH SLABS, JOISTS, AND WALLS (NC BEAMS, COLUMNS, PIERS	HER OR IN CONTACT WITH GROUND DT LARGER THAN #11 BAR) 3/4" 1-1/2"
	8' - 2" 43.5 P9F 8.8 P9F UNBALANCED SNOW LOADING	NOTE: CLEAR COVER DIMENSIONS LISTED COVER WHERE SPECIFICALLY REQUI	ARE CODE-REQUIRED MINIMUMS. PROVIDE GREATER IRED BY DETAILS.
	8.8 PSF 29. UNBALANCED SNOW LOADING		8' - 2" 43.5 PSF
8' - 2" 43.5 PSF	UNBALANCED SNOW LOADING	8.8 P	SF 29.4 PS
8' - 2" 43.5 PSF 8.8 PSF 29.4 PSF			UNBALANCED SNOW LOADING
8' - 2" 43.5 PSF 8.8 PSF UNBALANCED SNOW LOADING	. 8' - 2"		8' - 2" <u>.</u>
8' - 2" 43.5 PSF 29.4 PSF UNBALANCED SNOW LOADING 8' - 2"	43.5 PSF		43.5 PSF





UNBALANCED SNOW LOAD DIAGRAM SCALE: NONE

CAST-IN-PLACE CONCRETE

- CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO THE PROJECT MANUAL AND AMERICAN CONCRETE INSTITUTE CODES AND STANDARDS, INCLUDING, BUT NOT LIMITED TO, ACI 301, ACI 315, AND ACI 318.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 DELIVERED IN FLAT SHEETS.
- THE CONTRACTOR SHALL REVIEW ALL DRAWINGS FOR SIZE AND LOCATION OF ALL EMBEDDED ITEMS, SLEEVES, SLAB DEPRESSIONS, OPENINGS, ETC. REQUIRED BY OTHER TRADES. RECONCILE THEIR EXACT SIZES AND LOCATIONS BEFORE PROCEEDING WITH THE WORK. ALL ITEMS SHALL BE FURNISHED AND INSTALLED PRIOR TO PLACEMENT OF CONCRETE. SECURE THE APPROVAL OF THE STRUCTURAL ENGINEER PRIOR TO PLACING OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS. DO NOT CORE DRILL THROUGH BEAMS, JOISTS, GIRDERS, OR WALLS. NO CONDUIT SHALL BE PLACED IN CONCRETE SLABS OR BEAMS UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS.
- BACKFILL AGAINST WALLS SHALL NOT BE PLACED UNTIL THE FLOOR CONSTRUCTION AT THE FIRST FLOOR HAS BEEN COMPLETED TO BRACE THE WALL. AT THE CONTRACTORS OPTION, WALLS MAY BE BRACED AND BACKFILL INSTALLED. ANY SUCH BRACING SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL REMAIN IN PLACE UNTIL THE FIRST FLOOR IS COMPLETED AND CONTINUOUSLY CONNECTED TO THE WALL.
- WHERE BAR LENGTHS ARE GIVEN ON THE DRAWINGS, THE LENGTH OF ANY HOOK, IF REQUIRED, IS NOT INCLUDED. USE STANDARD 90° BAR HOOK UNO.
- THE CONTRACTOR SHALL PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CORNERS OF COLUMNS, BEAMS, AND WALLS UNO INDICATED ON THE ARCHITECTURAL DRAWINGS. MINIMUM CLEARANCES FOR REINFORCING STEEL SHALL CONFORM WITH THE TYPICAL REINFORCING BAR CLEARANCE TABLE.
- THE HARDENED CONCRETE OF HORIZONTAL CONSTRUCTION JOINTS SHALL BE DAMPENED AND THEN THOROUGHLY COVERED WITH A COAT OF CEMENT GROUT OF SIMILAR PROPORTIONS TO THE MORTAR IN THE CONCRETE. THE FRESH CONCRETE SHALL BE PLACED BEFORE THE GROUT HAS ATTAINED ITS INITIAL SET.
- THE HARDENED CONCRETE OF CONSTRUCTION JOINTS SHALL BE THOROUGHLY COATED WITH A BONDING AGENT (SIKA ARMATEC 110 OR EQUAL).
- WELDING OF REINFORCING STEEL IS NOT PERMITTED.
- D. COMPLY WITH THE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF SPECIAL FINISHES OR TREATMENTS TO EXPOSED CONCRETE.
- I. LAP WELDED WIRE FABRIC 1 SPACE (2 CROSS WIRES) + 2" AT ALL EDGES AND ENDS OF SHEETS.
- 2. REINFORCING BAR LAP SPLICES AND ANCHORAGE LENGTHS SHALL CONFORM WITH "MINIMUM LAP SPLICE AND ANCHORAGE DIMENSION TABLE"

UNDATIONS

- FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE SUBSURFACE INVESTIGATION REPORT BY SME DATED AUGUST 22, 2022. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SURVEY AND SUBSURFACE INVESTIGATION REPORT PRIOR TO BIDDING AND BEFORE BEGINNING CONSTRUCTION.
- THE SUBSURFACE INVESTIGATION IS FOR INFORMATIONAL PURPOSES ONLY AND SHALL NOT BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. FURTHERMORE, NO WARRANTY IS MADE BY THE OWNER WITH REGARD TO COMPLETENESS AND ACCURACY OF SUBSURFACE INVESTIGATION DATA, STATEMENTS, AND INTERPRETATIONS GIVEN IN REPORT.
- NOTIFY THE A/E AS SOON AS POSSIBLE OF ANY UNUSUAL SOIL CONDITIONS OR SOIL CONDITIONS AT VARIANCE WITH TEST BORINGS, SUCH AS UNEXPECTED SPRING OR SEEPAGE WATER, MATERIAL DIFFERING FROM TEST BORINGS, OR SOIL OF QUESTIONABLE BEARING CAPACITY.
- SET FOUNDATIONS AT THE ELEVATIONS SHOWN ON THE DRAWINGS ON FIRM SUBGRADE PREPARED PER THE EARTHWORK SPECIFICATIONS. VERIFY THAT EACH FOOTING PLACED IS BEARING ON MATERIAL WITH THE DESIGN BEARING CAPACITY PER THE SUBSURFACE INVESTIGATIVE REPORT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND FINAL CLEARANCE OF ANY REQUIRED NEEDLING, UNDERPINNING, SHORING, OR BRACING OF EXISTING STRUCTURES.

CONCRETE MINIMUM LAP SPLICE AND ANCHORAGE DIMENSION TABLE

USE TH CLE	HIS TABLE FOR AG1 AR SPACING IS AT MINIMUM STIRRUF	5 GRADE GO REINI LEAST d₀ AND COD PS ARE NOT PROVII	FORCING W E MINIMUM DED, CLEAR	HEN CONCRETE CL STIRRUPS ARE PR SPACING IS AT LE	EAR COVI COVIDED C EAST 2d₀.
	(4000 PSI CON	CRETE)		(3000 PSI CON	ICRETE)
	DEVELOPM	IENT LENGTH		DEVELOPM	IENT LENG
BAR SIZE	TOP BARS	OTHER BARS	BAR SIZE	TOP BARS	OTHER
#3	15"	12"	#3	18"	1
#4	20"	16"	#4	23"	1
#5	25"	19"	#5	29"	2
#6	30"	23"	#6	35"	2
#7	44"	34"	#7	50"	3
#8	50"	38"	#8	57"	4
#9	56"	43"	#9	65"	5
#10	63"	49"	#10	73"	5
#11	70	54"	#11	81"	6

NOTES:

- LAP LENGTHS SHALL BE 1.3 TIMES DEVELOPMENT LENGTH.
- FOR EPOXY COATED REINFORCING MULTIPLY THE TABLE VALUES ABOVE BY 1.5. • (MC) DENOTES MECHANICAL COUPLER DEVELOPING 125% OF THE BAR YIELD STRENGTH. NO OTHER SPLICE WILL BE ACCEPTED.
- WHEN LAPPING TWO DIFFERENT SIZE BARS, USE THE LAP DIMENSION OF THE SMALLER BAR OR THE ANCHORAGE DIMENSION OF THE LARGER BARS. USE WHICHEVER DIMENSION IS LARGER.
- TOP BARS SHALL BE DEFINED AS BEAM AND SLAB HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE TOP REINFORCEMENT. HORIZONTAL REINFORCING IN WALLS SHALL BE CONSIDERED TOP BARS.

METAL BUILDING SYSTEMS

- 1. THE METAL BUILDING MANUFACTURER SHALL SUBMIT DRAWINGS, CALCULATIONS, AND FOUNDATION REACTIONS FOR THE METAL BUILDING, SEALED BY THE LICENSED DESIGN PROFESSIONAL RESPONSIBLE FOR THEIR PREPARATION, TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO THE START OF FOUNDATION CONSTRUCTION.
- 2. WHEN MODIFICATIONS TO THE METAL BUILDING ARE PROPOSED AFTER THE PREPARATION OF SEALED DRAWINGS, CALCULATIONS, AND FOUNDATION REACTIONS, WRITTEN AUTHORIZATION BY THE LICENSED DESIGN PROFESSIONAL RESPONSIBLE FOR THE ENGINEERING OF THE METAL BUILDING SYSTEM MUST BE OBTAINED AND SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO PERFORMING THE PROPOSED MODIFICATION.

3. ALL METAL BUILDING FRAMING AND GIRTS/PULINS TO BE HOT-DIP GALVANIZED.

COVER AND IDED OR IF

LENGTH

OTHER BARS 14"

18" 22" 27" 39" 44" 50"

56" 62"





PLAN NOTES - FOUNDATION

- . SLAB ON GRADE SHALL BE 9" CONCRETE SLAB W/ 6x6 W2.9 x W2.9 WWF ON 4" COMPACTED MDOT CLASS II SAND. SEE TYPICAL SLAB ON GRADE DETAIL FOR
- ADDITIONAL INFORMATION. CONTROL JOINTS TO BE PLACED AT 15' O.C. MAXIMUM.
- 2. TOP OF SLAB-ON-GRADE ELEVATION = 100' 0", UNO.
- 3. TOP OF PIER ELEVATION = 99'-0", UNO.
- 4. TOP OF FOUNDATION WALL ELEVATION = 100' 8", UNO.
- 5. TOP OF FOOTING ELEVATION = 97'-0" UNO. ALL EXTERIOR FOOTINGS TO EXTEND A MINIMUM OF 3'-6" BELOW FINISHED GRADE.
- 6. SEE GENERAL NOTES FOR DESIGN SOIL BEARING CAPACITY.
- 7. REINFORCING SHOWN ON PLAN IS IN ADDITION TO REINFORCING SHOWN IN SECTIONS, DETAILS, AND SCHEDULES.
- 8. SEE ARCHITECTURAL DRAWINGS FOR INTERIOR WALL DIMENSIONS.
- 9. VERIFY LOCATIONS OF COLUMNS, WALLS, OPENINGS, ETC. WITH ARCHITECTURAL DRAWINGS BEFORE PLACING FOUNDATIONS.
- 10. COORDINATE WITH ALL DRAWINGS FOR LOCATION OF OPENINGS, SLEEVES, AND UNDER FLOOR PIPES, CONDUITS, DRAINS, DEPRESSIONS, ETC.



PER GEOTECHNICAL REPORT EXISTING FILL MATERIAL ENCOUNTED BETWEEN 3' AND 8', TO BE REMOVED WITHIN ENTIRE BUILDING PERIMETER AND MIN. 5'-0" BEYOND THE LIMITS OF PERIMETER FOOTINGS. ENGINEERED FILL TO BE PLACED BELOW ENTIRE FOOTPRINT OF BUILDING. SEE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION. PIER AND FOUNDATIONS ARE DESIGNED BASED ON

ISOLATED FOOTING SCHEDULE

MARK	THICKNESS (T)	(W)	LENGTH (L)	REINFORCING	
F5.0	14"	5' - 0"	5' - 0"	(5) #5 EA. WAY TOP ≰ BOT	
F6.0	14"	6' - 0"	6' - 0"	(6) #5 EA. WAY TOP ≰ BOT.	

	WAL	LFC	OTING SCH	EDULE
MARK	HEIGHT	WIDTH	LONGITUDINAL REINFORCING	TRANSVERSE REINFORCEMEN
WF1.5	12"	1' - 6"	(2) #4	N/A







TYPICAL SOG JOINT PATTERN SCALE: NONE



TYPICAL SOG CONSTRUCTION SCALE: NONE





GENERAL NOTES:

- NO COMPARABLE PRODUCTS WILL BE REVIEWED FOR PRODUCTS DESIGNATED AS SINGLE SOURCE. - COMPARABLE PRODUCTS WILL BE REVIEWED FOR ITEMS LISTED AS BASIS OF DESIGN. COMPARABLE PRODUCTS ARE REQUIRED TO MEET ANY MINIMUM PERFORMANCE REQUIREMENTS LISTED IN REMARKS AND DESIGN ATTRIBUTES OF SPECIFIED PRODUCT. - REFER TO PRODUCT SPECIFICATION FOR TRIMS AND ACCESSORIES ASSOCIATED WITH SPECIFIED PRODUCTS ABOVE.

COLOR



B A 301







COLOR	PRODUCT NO.	SIZE	SINGLE SOURCE	BASIS OF DESIGN	ADDITIONAL MANUFACTURERS	REMARKS
RESERVED WHITE	SW 7056					ALL EXPOSED PRE-ENGINEERED COMPONENTS & GALVANIZED STEEL COMPONENTS
						REFER TO SPECIFICATION











WINDOW ELEVATION 1/4" = 1'-0"



















			ELECTRICA	AL TRANSFOR
			PRIMARY	
TRANSFORMER NAME	FED FROM	SIZE	VOLTAGE (V)	BREAKER /
TX-SALT	PMH-12	150 kVA	4800 V	25 A /
NOTES:				

	SITE LIGHT FIXTURE SCHEDULE						
	TYPE	DESCRIPTION	MOUNTING	WATTS	MANUF		
SA		LED STREET LIGHT	30' POLE	122 VA	CREE: XSPMD-D-HT-2ME		
SB		DUAL HEAD LED FLOOD LIGHT	30' POLE	144 VA	(2) CREE: OSQM-B-11L- W/ PD-2A DUAL HEAD TE		





4	PANEL: RP-SCALE LOCATION: FIRST FLOOR ADDED ACCESSORIES: SPD		FI	M EED-THR	ounting Amps U Lugs	: SURFA : 70 A M . No	CE B , ULSE R	RATED		VOLTAGE: 120/240 FED FROM: DP-SALT A.I.C. VALUE: PER MA	V, 1PH, 3W NUFACTURER
	CIRCUIT DESCRIPTION	TRIP (A)	POLES	A	(VA)	В	(VA)	POLES	TRIP (A)		SCRIPTION
1	LIGHTING - SCALE BLDG	20	1	432	690			1	20	LIGHTING - SCALE BLDG	
3	LIGHTING - SCALE BLDG	20	1			1150	720	1	20	RECEPTACLE - SCALE BLI	DG
5	RECEPTACLE - SCALE BLDG	20	1	540	500			1	20	RECEPTACLE - SCALE BLI	DG
7	RECEPTACLE - SCALE BLDG	20	1			540	0	1	20	POWER - TRUCK SCALE K	IOSK
9	SPARE	20	1	0	0			1	20	SPARE	
1	SPARE	20	1			0	0	1	20	SPARE	
3	SPARE	20	1	0	0			1	20	SPARE	
5	SPARE	20	1			0	0	1	20	SPARE	
7	SPARE	20	1	0	0			1	20	SPARE	
9											
1											
3											
5	SPD	100	2	0							
7						0					
		ΤΟΤΑ	L LOAD:	216	2 VA	24	10 VA				
	ADDITIONAL FEED THRU LUGS		CABLE):	0	VA	C	VA				
		TOTA	L AMPS:	1	8 A	2	20 A				
		CONNECT		DE		CTOR	ESTIMAT		ND	PANEL	TOTALS
انی ۱۰		2272	2 VA		100.00%	0	22	272 VA			4572\/^
- -	YER - YEPTACI E _	2300	ν. Α 1 \/Δ			, ,	23				4572 VA
		2300			100.00%	U	23		TOT		19 A
									тот		10 Δ

				LIGHT F	IXTURE SCHEDULE	
TYPE	Description	MOUNTING	DRIVER	WATTS	MANUFACTURER	NOTE
A	LED VAPOR TIGHT	WALL	0-10V	115 VA	LITHONIA: VAP-15000LM-FST-MD-MVOLT-GZ10-40K-80CRI-SMB EQUAL BY CREE	1, 2
AE	LED VAPOR TIGHT	WALL	0-10V	115 VA	LITHONIA: VAP-15000LM-FST-MD-MVOLT-GZ10-40K-80CRI-SMB-BSL722C EQUAL BY CREE	1, 2, 3
В	LED WALL PACK	WALL	0-10V	54 VA	LITHONIA: TWPX2-LED-P4-40K-MVOLT-PE-DBLXD EQUAL BY CREE	1, 2
С	PENDANT LINEAR	CHAIN	0-10V	115 VA	LITHONIA: VAP-15000LM-FST-MD-MVOLT-GZ10-40K-80CRI-CMB-HC36 EQUAL BY CREE	1, 2

1 ALL LED FIXTURES TO HAVE WARRANTY TO MEET OR EXCEED WARRANTY INCLUDED IN BASIS OF DESIGN. FIXTURES LISTED AS EQUALS SHALL MEET DELIVERED LUMENS, CRI, EFFICACY AND OPTIONS OF THAT SPECIFIED. REFER TO SPECIFICATIONS 265100

2 THE MOUNTING DESCRIPTION IS GENERAL. REFER TO SHOP DRAWINGS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR

3 PROVIDE SEPERATE UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT TO BATTERY FIXTURES. WIRE FIXTURE TO TURN "ON" WHEN

1 COPPER CONDUCTORS (UNLESS OTHERWISE INDICATED WITH AN "AL" FOR ALUMINUM)

2 G.E.C. = GROUNDING ELECTRODE CONDUCTOR FOR SEPARATELY DERIVED SYSTEM (PER

FEEDER



1	Electrical contractor s and patching required f removed and not replac	DHALL BE RESPONSIBLE OR NEW WORK OR WHE CED.
2	PATCH ALL PENETRATIONS	AS REQUIRED TO MAINT.
3	REFER TO SECTIONS, ARCH DRAWINGS FOR EXACT DEV	ITECTURAL ELEVATIONS ICE LOCATIONS AND MC
4	ALL CONDUITS SHALL RUN	AS NEAR TO DECK AS PI
5	ALL OUTDOOR RECEPTACLE BE GFCI PROTECTED PER N	AND ANY OTHER REQUI EC REQUIREMENTS.
6	ALL LOW VOLTAGE CABLING	SHALL BE RUN IN CONI
7	All conduits shall enter provide trenching and e and patch as required. On exterior of building.	Rexit the Building Bei Directional Boring As No Exposed Conduit
8	REFER TO T SHEET FOR ADI	DITIONAL ROUGH-IN REG
9	ALL POWER AND LOW-VOLT	AGE CABLING SHALL BE DNDUIT TIGHT TO STRUC
ELEC	CTRICAL KEYED NOTES	\bigcirc
1	PROVIDE 120 VOLT 20 AM TYPE PHOTOCELL AND NOR TYPE C FIXTURES. TYPE C FI DAYTIME. PHOTOCELL TO O HOURS. MOUNT PHOTOCE	P CONTACTOR AND 120 MALLY CLOSED CONTAC XTURE SHALL ONLY BE O PEN THE CONTACTOR D LL ON NORTH FACE OF E
2	ROUTE HARDWIRE 20 AMP TRUCK SCALE KIOSK. COO	120V VOLT CIRUIT BELC RDINATE FINAL CONNEC
LIGH	TING SYMBOLS	MOUNTING HEIG
LIGH ⁻ Ю	TING SYMBOLS WALL MTD. LIGHT FIXTURE	MOUNTING HEIG
Ligh ⁻ ЮО(TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL	MOUNTING HEIG
LIGH PO OPC	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS	MOUNTING HEIG
LIGH PO O RECE ⊕	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS DUPLEX RECEPTACLE	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS DUPLEX RECEPTACLE VP DUPLEX RECEPTACLE - WET LOCAT	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS DUPLEX RECEPTACLE VP DUPLEX RECEPTACLE - WET LOCAT ECEPTACLES VARIATIONS - HEIGHT PER ABOV	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS DUPLEX RECEPTACLE VP DUPLEX RECEPTACLE - WET LOCAT ECEPTACLES VARIATIONS - HEIGHT PER ABOV DOUBLE DUPLEX RECEPTACLE GFT DUPLEX RECEPTACLE	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS DUPLEX RECEPTACLE VP DUPLEX RECEPTACLE - WET LOCAT SCEPTACLES VARIATIONS - HEIGHT PER ABOV DOUBLE DUPLEX RECEPTACLE DOUBLE DUPLEX RECEPTACLE GFI DUPLEX RECEPTACLE - WITH GFI	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS VP DUPLEX RECEPTACLE VP DUPLEX RECEPTACLE - WET LOCAT SCEPTACLES VARIATIONS - HEIGHT PER ABOV DOUBLE DUPLEX RECEPTACLE OUBLE DUPLEX RECEPTACLE DUPLEX RECEPTACLE - WITH GFI	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS VP DUPLEX RECEPTACLE VP DUPLEX RECEPTACLE - WET LOCAT CEPTACLES VARIATIONS - HEIGHT PER ABOV COUBLE DUPLEX RECEPTACLE DUPLEX RECEPTACLE - WITH GFI PUPLEX RECEPTACLE - WITH GFI VER SYMBOLS	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS DUPLEX RECEPTACLE VP DUPLEX RECEPTACLE - WET LOCAT ECEPTACLES VARIATIONS - HEIGHT PER ABOV DUPLEX RECEPTACLE - WET LOCAT CEPTACLES VARIATIONS - HEIGHT PER ABOV DUPLEX RECEPTACLE - WITH GFI PUPLEX RECEPTACLE - WITH GFI PANELBOARD DISTRIBUTION PANELBOARD	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS DUPLEX RECEPTACLE VP DUPLEX RECEPTACLE - WET LOCAT CEEPTACLES VARIATIONS - HEIGHT PER ABOV OUBLE DUPLEX RECEPTACLE - WET LOCAT DOUBLE DUPLEX RECEPTACLE - WET LOCAT DOUBLE DUPLEX RECEPTACLE - WET LOCAT CFI DUPLEX RECEPTACLE - WET LOCAT CEFTACLES VARIATIONS - HEIGHT PER ABOV DOUBLE DUPLEX RECEPTACLE - WITH GFI PANELBOARD DUPLEX RECEPTACLE - WITH GFI PANELBOARD DISTRIBUTION PANELBOARD ELECTRICAL EQUIPMENT CONNECT SCHEDULES FOR FEEDER SIZE, B DISTRIBUTION PANELBOARD	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS DUPLEX RECEPTACLE VP DUPLEX RECEPTACLE - WET LOCAT CEPTACLES VARIATIONS - HEIGHT PER ABOX DOUBLE DUPLEX RECEPTACLE DUPLEX RECEPTACLE - WET LOCAT CEPTACLES VARIATIONS - HEIGHT PER ABOX DOUBLE DUPLEX RECEPTACLE DUPLEX RECEPTACLE - WITH GFI PANELBOARD DISTRIBUTION PANELBOARD ELECTRICAL EQUIPMENT CONNECC SCHEDULES FOR FEEDER SIZE, B D— FUSE	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS VP DUPLEX RECEPTACLE VP DUPLEX RECEPTACLE VP DUPLEX RECEPTACLE - WET LOCAT CEETTACLES VARIATIONS - HEIGHT PER ABON DOUBLE DUPLEX RECEPTACLE DOUBLE DUPLEX RECEPTACLE DUPLEX RECEPTACLE - WITH GFI PANELBOARD DISTRIBUTION PANELBOARD ELECTRICAL EQUIPMENT CONNECT SCHEDULES FOR FEEDER SIZE, B Image: Puse CIRCUIT BREAKER	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS DUPLEX RECEPTACLE VP DUPLEX RECEPTACLE - WET LOCAT CEPTACLES VARIATIONS - HEIGHT PER ABON DOUBLE DUPLEX RECEPTACLE - WET LOCAT DOUBLE DUPLEX RECEPTACLE DOUBLE DUPLEX RECEPTACLE DOUBLE DUPLEX RECEPTACLE - WITH GFI PANELBOARD DISTRIBUTION PANELBOARD ELECTRICAL EQUIPMENT CONNECC SCHEDULES FOR FEEDER SIZE, B Image: Puse FUSE CIRCUIT BREAKER CIRCUIT BREAKER SWITCH	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS DUPLEX RECEPTACLE PHOTOCONTROL VP DUPLEX RECEPTACLE - WET LOCAT CEPTACLES VARIATIONS - HEIGHT PER ABOVE DUPLEX RECEPTACLE - WET LOCAT CEPTACLES VARIATIONS - HEIGHT PER ABOVE DOUBLE DUPLEX RECEPTACLE GFI DOUBLE DUPLEX RECEPTACLE GFI DUPLEX RECEPTACLE - WITH GFI YER SYMBOLS PANELBOARD F PANELBOARD F FUSE GIRCUIT BREAKER FUSE CIRCUIT BREAKER ELECTRICH WITCH UIGHTING CONTACTOR	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS DUPLEX RECEPTACLE VP DUPLEX RECEPTACLE - WET LOCAT CEPTACLES VARIATIONS - HEIGHT PER ABOVE GF1 DOUBLE DUPLEX RECEPTACLE - WITH GFI DOUBLE DUPLEX RECEPTACLE - WITH GFI DOUBLE DUPLEX RECEPTACLE - WITH GFI PANELBOARD DISTRIBUTION PANELBOARD ELECTRICAL EQUIPMENT CONNECC SCHEDULES FOR FEEDER SIZE, B Image: PLUSE CIRCUIT BREAKER CIRCUIT BREAKER CIRCUIT BREAKER SWITCH LIGHTING CONTACTOR SYSTEM GROUND - REFER TO SPI	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS DUPLEX RECEPTACLE VP DUPLEX RECEPTACLE - WET LOCAT CEPTACLES VARIATIONS - HEIGHT PER ABOX DOUBLE DUPLEX RECEPTACLE - WET LOCAT CEPTACLES VARIATIONS - HEIGHT PER ABOX DOUBLE DUPLEX RECEPTACLE - WITH GFI DOUBLE DUPLEX RECEPTACLE - WITH GFI PANELBOARD DISTRIBUTION PANELBOARD ELECTRICAL EQUIPMENT CONNECT SCHEDULES FOR FEEDER SIZE, B Image: PANELBOARD Image: PANELBOARD	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS OUPLEX RECEPTACLE VP DUPLEX RECEPTACLE - WET LOCAT CEPTACLES VARIATIONS - HEIGHT PER ABON DOUBLE DUPLEX RECEPTACLE - WET LOCAT CEPTACLES VARIATIONS - HEIGHT PER ABON DOUBLE DUPLEX RECEPTACLE - WET LOCAT COUBLE DUPLEX RECEPTACLE - WITH GFI DOUBLE DUPLEX RECEPTACLE - WITH GFI DUPLEX RECEPTACLE - WITH GFI PANELBOARD DISTRIBUTION PANELBOARD ELECTRICAL EQUIPMENT CONNECT SCHEDULES FOR FEEDER SIZE, B PUSE CIRCUIT BREAKER CIRCUIT BREAKER ELIGHTING CONTACTOR SYSTEM GROUND - REFER TO SPI TRANSFORMER FLUSH IN-GRADE HAND HOLE	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS DUPLEX RECEPTACLE VP DUPLEX RECEPTACLE - WET LOCAT CEPTACLES VARIATIONS - HEIGHT PER ABOX DUPLEX RECEPTACLE - WET LOCAT CEPTACLES VARIATIONS - HEIGHT PER ABOX DUPLEX RECEPTACLE - WET LOCAT DUPLEX RECEPTACLE - WITH GFI DUPLEX RECEPTACLE - WITH GFI PANELBOARD DISTRIBUTION PANELBOARD ELECTRICAL EQUIPMENT CONNECT SCHEDULES FOR FEEDER SIZE, B Image: PUSE CIRCUIT BREAKER Image: CIRCUIT BREAKER Image: PUSE <	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS DUPLEX RECEPTACLE VP DUPLEX RECEPTACLE - WET LOCAT CEPTACLES VARIATIONS - HEIGHT PER ABOV DOUBLE DUPLEX RECEPTACLE - WITH CONTROL E OUUBLE DUPLEX RECEPTACLE - WITH GFI DUPLEX RECEPTACLE - WITH GFI DISTRIBUTION PANELBOARD ELECTRICAL EQUIPMENT CONNECC SCHEDULES FOR FEEDER SIZE, B I FUSE CIRCUIT BREAKER ELECTRICAL EQUIPMENT CONNECC SCHEDULES FOR FEEDER SIZE, B I FUSE FUSE CIRCUIT BREAKER ELECTRICAL EQUIPMENT CONNECC SWITCH LIGHTING CONTACTOR SYSTEM GROUND - REFER TO SPI TRANSFORMER FLUSH IN-GRADE HAND HOLE	MOUNTING HEIG
	TING SYMBOLS WALL MTD. LIGHT FIXTURE DOWNLIGHT FIXTURE PHOTOCONTROL EPTACLE SYMBOLS DUPLEX RECEPTACLE VP DUPLEX RECEPTACLE - WET LOCAT CCEPTACLES VARIATIONS - HEIGHT PER ABOX DOUBLE DUPLEX RECEPTACLE - WITH CFI CEPTACLES VARIATIONS - HEIGHT PER ABOX DOUBLE DUPLEX RECEPTACLE - WITH GFI DUPLEX RECEPTACLE - WITH GFI DUPLEX RECEPTACLE - WITH GFI FER SYMBOLS PANELBOARD DISTRIBUTION PANELBOARD ELECTRICAL EQUIPMENT CONNECT SCHEDULES FOR FEEDER SIZE, B PANELBOARD DISTRIBUTION PANELBOARD ELECTRICAL EQUIPMENT CONNECT SCHEDULES FOR FEEDER SIZE, B PUSE CIRCUIT BREAKER PUSE CIRCUIT BREAKER SYSTEM GROUND - REFER TO SPI TRANSFORMER FLUSH IN-GRADE HAND HOLE ES: T DEVICES AT HEIGHTS INDICATED UNLESS IN	MOUNTING HEIG

GENERAL ELECTRICAL NOTES



FOR ALL CUTTING FOR ALL CUTTING FRE DEVICES ARE TAIN FIRE RATING. AND RELATED DUNTING HEIGHTS. FRMITTED BY CODE. IRED BY 201.8B TO DUIT. LOW GRADE. 5 REQUIRED. CUT SHALL BE ALLOWED QUIREMENTS. IN PVC CONDUIT TURE. D VOLT BUTTON TOR TO CONTROL ON DURING THE DURING NIGHT TIME BUILDING. DW GRADE INTO TION WITH SCALE		Anchitecture - Engineering - Interiors Construction Construction Construction Construction	
GHTS	ISSUED FOR	DATE	
	PROJECT TITLE CITY OF KALAMAZOO SCALE		
	OWNER CITY OF KALAMAZOO	Kalamazoo, Michigan	
	SHEET TITLE FIRST FLOOR POWER PLAN	SHEET NUMBER E 101 DATE APRIL 14, 2023 21-203.00	

			STRUC	TURED CA	BLING	SCHEDULE	
	ENVIRONMENTAI		PERFORMANCE		MEG PART		
DESCRIPTION	SPACE	COLOR	LEVEL	MANUFACTURER	NUMBER	PURPOSE	CABLING NOTES
CABLE	PLENUM	WHITE	CATG	GENERAL CABLE	7131801	ALL INDOOR DATA CONNECTIONS	
CABLE	INDOOR/OUTDOOR	BLACK	CATG	MOHAWK	M58772	CABLES THAT WILL BE INSTALLED OUTSIDE	
JACK MODULE	NA	RED	CAT6	PANDUIT	CJ688TGRD	COPPER BACKBONE	INSTALL ON EACH END OF INSTALLED CABLE
JACK MODULE	NA	ORANGE	CAT6	PANDUIT	CJ688TGOR	RESERVED	INSTALL ON EACH END OF INSTALLED CABLE
JACK MODULE	NA	YELLOW	CAT6	PANDUIT	CJ688TGYL	WIRELESS ACCESS POINT	INSTALL ON EACH END OF INSTALLED CABLE
JACK MODULE	NA	GREEN	CAT6	PANDUIT	CJ688TGGR	FACILITIES	INSTALL ON EACH END OF INSTALLED CABLE
JACK MODULE	NA	BLUE	CAT6	PANDUIT	CJ688TGBU	SPECIAL NETWORK	INSTALL ON EACH END OF INSTALLED CABLE
JACK MODULE	NA	VIOLET	CAT6	PANDUIT	CJ688TGVL	SECURITY CAMERAS	INSTALL ON EACH END OF INSTALLED CABLE
JACK MODULE	NA	BLACK	CAT6	PANDUIT	CJ688TGBL	RESERVED	INSTALL ON EACH END OF INSTALLED CABLE
JACK MODULE	NA	GREY	CAT6	PANDUIT	CJ688TGIG	POTS LINE	INSTALL ON EACH END OF INSTALLED CABLE
JACK MODULE	NA	IVORY, WHITE OR OFF-WHITE	CATG	PANDUIT	CJ688TG**	GENERAL DATA & IP PHONES	INSTALL ON EACH END OF INSTALLED CABLE
1-PORT FACEPLATE (PLASTIC)	NA	SEE NOTES	NA	PANDUIT	CFPL1**Y		COLOR & MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
2-PORT FACEPLATE (PLASTIC)	NA	SEE NOTES	NA	PANDUIT	CFPL2**Y		COLOR & MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
2-PORT FACEPLATE (STAINLESS STEEL)	NA	SEE NOTES	NA	PANDUIT	CFPL2SY		COLOR & MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
3-PORT FACEPLATE (PLASTIC)	NA	SEE NOTES	NA	PANDUIT	CFPL3**Y		COLOR & MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
4-PORT FACEPLATE (PLASTIC)	NA	SEE NOTES	NA	PANDUIT	CFPL4**Y		COLOR & MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
4-PORT FACEPLATE (STAINLESS STEEL)	NA	SEE NOTES	NA	PANDUIT	CFPL4SY		COLOR & MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
6-PORT FACEPLATE (PLASTIC)	NA	SEE NOTES	NA	PANDUIT	CFPL6**Y		COLOR & MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
6-PORT FACEPLATE (STAINLESS STEEL)	NA	SEE NOTES	NA	PANDUIT	CFPL6SY		COLOR & MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
10-PORT FACEPLATE, 2-GANG (PLASTIC)	NA	SEE NOTES	NA	PANDUIT	CFPE10**-2GY		COLOR & MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
10-PORT FACEPLATE, 2-GANG (STAINLESS STEEL)	NA	SEE NOTES	NA	PANDUIT	CFPL105-2GY		COLOR & MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
1-PORT SURFACE BOX	PLENUM	SEE NOTES	NA	PANDUIT	CBX1**-A		COLOR & MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
2-PORT SURFACE BOX	PLENUM	SEE NOTES	NA	PANDUIT	CBX2**-A		COLOR & MATERIAL SHALL MATCH ELECTRICAL DEVICES WITHIN SAME SPACE
PATCH CABLE	PLENUM	MATCH JACK MODULE COLOR	CATG	PANDUIT	UPP***10	ALL DATA CONNECTIONS IN PLENUM SPACE	LENGTH = 10FT (PROVIDE/INSTALL 1 PER INSTALLED CABLE)
PATCH CABLE	RISER	WHITE	CATG	PANDUIT	UTP285P1	CROSS-CONNECT BETWEEN PATCH PANEL AND NETWORK SWITCH	LENGTH = 1FT (PROVIDE/INSTALL 1 PER INSTALLED CABLE)
PATCH CABLE	RISER	WHITE	CATG	PANDUIT	UTPSP10Y	CONNECTION AT WORKSTATION/DEVICE	LENGTH = 10FT (PROVIDE/INSTALL 1 PER INSTALLED CABLE)







TELECOMMUNICATION ROOM BONDING DETAIL



SCALE BUILDING DATA RACK ELEVATION VIEW

12	FIBER ENCLOSURE	12
	(SEE DETAILS ON T401)	
11	VENT PANEL	
	MIDDLE ATLANTIC PRODUCTS - VTF I	
10	POWER DISTRIBUTION	10
	(BY OWNER)	
9	VENT PANEL	9
	MIDDLE ATLANTIC PRODUCTS - VTF I	
8		8
_		
/	RACK MOUNT DIN RAIL	1
	STARTECH ADJDINKIT	
6	(FOR OWNER NETWORK SWITCH & POWER SUPPLY)	6
5		5
4	PATCH PANEL	4
	PANDUIT - CPPL24M6BLY	
3	VENT PANEL	3
	MIDDLE ATLANTIC PRODUCTS - VTF I	
2		2
	UPS	
,	(BY OWNER)	

WALL-MOUNT DATA RACK DETAIL SCALE: NONE







FIRST FLOOR TECHNOLOGY PLAN



GENERAL TECHNOLOGY NOTES 1 TECHNOLOGY CONTRACTOR SHALL BE RESPONSIBLE FC AND PATCHING REQUIRED FOR NEW WORK OR WHERE D REMOVED AND NOT REPLACED. 2 TECHNOLOGY CONTRACTOR SHALL COORDINATE WITH C SHEETS DEVICE COORDINATION DETAIL. DEVICES ARE VERTICALLY AND HORIZONTALLY AND FOLLOW THE RULE DETAIL CONSISTENTLY. A PRE-INSTALL DEVICE COORDIN FOR DEVICE FINISHES AND LAYOUT MAY BE REQUIRED I SPECIFICATION FOR THIS PROJECT. 3 REFER TO TECHNOLOGY, ELECTRICAL AND ARCHITECTUR ELEVATIONS FOR SYMBOL INFORMATION AND ELEVATION 4 CONTRACTOR SHALL BE RESPONSIBLE FOR PROJECT PH TEMPORARY WIRING TO KEEP SYSTEMS RUNNING SHALL AS REQUIRED WHILE BUILDING IS OCCUPIED BETWEEN P CONSTRUCTION. 5 STRUCTURED CABLING MOUNTIN ✓ DATAVOICE OUTLET - 4 SQ BOX, SG COVER, 1" CONDUIT S ATAVOICE OUTLET - 4 SQ BOX, SG COVER, 1" CONDUIT S 4" ABOVE BACKSPLASH MOUNTIN S ✓ DATAVOICE OUTLET - 4 SQ BOX, SG COVER, 1" CONDUIT S 4" ABOVE BACKSPLASH SECURITY CONTROLS PATHWAY - 4 SQ BOX, SG COVER WIT PLATE, 1" CONDUIT STUB IMPRILESS ACCESS POINT (REFER TO DETAILS) WIRELESS ACCESS POINT (REFER TO DETAILS)	'R ALL CUTTING EVICES ARE S SERIES FO ALIGN S OF THIS S OF THIS VATION MEETING N THE AL DETAILS AND N DETAIL. ASING. BE PROVIDED 'HASES OF NG HEIGHTS TUB 16" 1500 16" TUB 16" H BRUSH 16"	Towerband Stephense Architecture · Engineering · Interiors Interiors Bachitecture · Engineering · Interiors Interiors
GROUNDING BUS BAR WITH DEDICATED GROUND, (REFER TO CABLE TRAY, (12"x4" UNLESS NOTED OTHERWISE) TO# NETWORK COMMUNICATION RACK - FLOOR STANDING 3' CLE 4'X8'X3/4" FIRE-RATED PLYWOOD, A/C FINISH, MOUNT VERTIC CONDUIT SLEEVE IN ACCESSIBLE CEILING (2" CONDUIT UNLESS NOTED OTHERWISE, ONLY SHOWN ON INDICATING SPECIFIC CONDITIONS, REFER TO GENERAL NOT SLEEVES THAT ARE REQUIRED INTO ALL SPACES)	AR ON BOTH SIDES CALLY 12" PLANS ES FOR	R DATE
SECURITY SYMBOLS SECURITY CAMERA - WALL SECURITY CAMERA - CEILING ACP# ACCESS CONTROL PANEL (REFER TO DETAILS) MOUNT DEVICES AT HEIGHTS INDICATED UNLESS INDICATED OTHERWISE ON PLANS. HEIGHTS ARE TO BOTTOM OF DEVICE.	PROJECT TITLE CITY OF KALAMAZOO SCALE	
	OWNER CITY OF KALAMAZOO	Kalamazoo, Michigan
	ECHNOLOGΥ PLAN	date APRIL 14, 2023
	SHEET TITLE FIRST FLOOR T	внеет NUMBER Т 101 21-203.00

		FIBER ENCLOSURE SCHEDULE			
Ī	KEY				
	#	DESCRIPTION	MANUFACTURER	PART #	
	1	FIBER ENCLOSURE	PANDUIT	FRME1U	
	2	FIBER ADAPTER PANEL	PANDUIT	FAP12WBUDLCZ	PROVIDE A QUANTITY OF (12) PA
	3	FIBER ADAPTER BLANK	PANDUIT	FAPB	
	4	FIBER OPTIC TERMINATIONS	PANDUIT	FLCS2/9SOCU9BU	TERMINATE ALL STRANDS WITH I
Ī	5	FIBER OPTIC DUPLEX PATCH CABLE	PANDUIT	F92ERLNLNSNM001	

$ $ \bigcirc	(2)		3	$ \circ \Upsilon$
	688 688 688 688 680		3	
	88 88 88 88	88 88 88 88	Ŭ	
$ $ \bigcirc				

FIBER OPTIC DUPLEX PATCH CABLE

FIBER ENCLOSURE DETAIL SCALE: NONE

				FIBER EQUIF	PMENT SCHEDULE		
KEY	DESCRIPTION	ΝΛΔ		DADT #			
20							
30			ENCLUSURE DE TAILS				
30 30							
30							
<u>40</u>					100		
40 Δ	18-STRAND SINGLE MODE EIBER				109		
<u>ר</u> R	6-STRAND SINGLE MODE FIBER						
				A100040100-D1			
<u>ר</u> ח							
				CH41C-***			
	INNERDOCT	CARLON			DENOTES LENO		
					FIBER ENG SEE FIBER	CLO R EN	
F 9 	BER ENCLOSURE DEE FIBER ENCLOSURE DETAILS 30 C	 		 	FIBER ENG SEE FIBER	 CLO: R EN	
					NOTE: A TOTAL OF 24 DUPLEX FIBER PATCH CABLES ARE REQUIRED AT THIS RACK.	χ	

NOTE: ALL TERMINATIONS SHALL BE FUSION SPLICED. ALL AVAILABLE STRANDS SHALL BE TERMINATED AT EACH SPLICE POINT.

FIBER ROUTING DIAGRAM



ATCH CABLES FOR EACH FIBER ADAPTER PANEL









