STRUCTURAL STEEL:

1. DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH THE LATEST AISC AND OTHER RELATED CODES, STANDARDS AND SPECIFICATIONS LISTED IN THE PROJECT SPECIFICATIONS, EXCEPT AS MODIFIED THEREIN OR ON THE DRAWINGS.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS/ORNAMENTAL STEEL NOT SHOWN ON THE STRUCTURAL DRAWINGS.
3. STRUCTURAL STEEL:
   A. ASTM A992 Fy = 50 KSI FOR ROLLED STEEL WIDE FLANGE SHAPES
   B. ASTM A36 Fy = 36 KSI FOR CHANNELS, ANGLES, PLATES, BARS, RODS, UNO
   C. ASTM A500 GRADE C FOR HSS TUBING Fy = 50 KSI FOR RECTANGULAR
4. HIGH STRENGTH BOLTS: ASTM A325 OR A490, 3/4" DIAMETER MINIMUM UNO
5. ANCHOR RODS: ASTM F1554, GRADE 36 UNO
6. WORK STRUCTURAL DRAWINGS WITH ARCHITECTURAL, HVAC, PLUMBING, FIRE PROTECTION & ELECTRICAL DRAWINGS FOR CLEARANCES, ATTACHMENTS, ETC.
7. ALL FABRICATION AND ERECTION WORK SHALL BE PERFORMED BY AISC CERTIFIED FABRICATORS AND ERECTORS.
8. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY, AWS D1.1 AND SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STANDARDS. PROVIDE MINIMUM 1/4" FILLET WELD, UNO.
9. PROVIDE ANGLE WALL ANCHORS, PER PART 4, AISC MANUAL OF STEEL CONSTRUCTION, FOR BEAMS BEARING ON MASONRY WALLS. ANGLE ANCHORS SHALL BE WELDED TO BEAMS.
10. CONNECTIONS: WELD OR BOLT CONNECTIONS, AS INDICATED:
    A. CONNECTIONS NOT DETAILED ON THE DRAWINGS SHALL CONFORM TO THE REQUIREMENTS OF THE CITED AISC SPECIFICATION.
    B. WHERE THE REACTION VALUES OF BEAMS ARE NOT SHOWN ON THE DRAWINGS, EACH END CONNECTION SHALL BE DESIGNED TO SUPPORT 55% OF THE TOTAL UNIFORM LOAD CAPACITY DERIVED FROM THE ASD VALUE OF THE TABLES AND FORMULA OF THE MAXIMUM TOTAL UNIFORM LOAD IN PART 3, FOURTEENTH EDITION, OF THE AISC MANUAL OF STEEL CONSTRUCTION FOR THE GIVEN MEMBER SIZE, SPAN, AND YIELD STRENGTH. COMPOSITE BEAM CONNECTIONS MUST DEVELOP 75% OF THE TOTAL BEAM ALLOWABLE UNIFORM LOAD CAPACITY, AS GIVEN IN THE AISC TABLES BASED ON SIZE, SPAN, & YIELD STRENGTH.
    C. THE MINIMUM LENGTH OF CONNECTION ANGLES SHALL BE EQUAL TO ONE HALF THE DEPTH OF THE MEMBER TO BE SUPPORTED.
    D. ONE SIDED CONNECTIONS WILL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS OR SEALED DESIGN CALCULATIONS ARE SUBMITTED WITH THE SHOP DRAWINGS.
    E. THE MINIMUM NUMBER OF BOLTS IN BOLTED CONNECTIONS SHALL BE TWO (2) BOLTS.
    F. MINIMUM 1/4" FILLET WELD SHALL APPLY UNLESS NOTED OTHERWISE.
    G. MINIMUM SIZE OF CLIP ANGLE SHALL BE L3x3x5/16" UNLESS NOTED OTHERWISE.
11. UTILIZE THROUGH PLATES FOR ALL CONNECTIONS TO TUBES AND PIPE UNLESS SHOWN OTHERWISE.
12. TRUSS AND BRACING MEMBER CONNECTIONS SHALL BE DESIGNED FOR THE FORCES INDICATED ON THE DRAWINGS.
13. TYPICAL CONNECTION DETAILS INDICATED ON THE STRUCTURAL DESIGN DRAWINGS SHALL DICTATE THE FORM AND GEOMETRY OF THE CONNECTIONS. THE FABRICATOR SHALL DETERMINE OR VERIFY TYPE, SIZE AND NUMBER OF BOLTS, PLATE THICKNESS AND SIZES, WELD SIZES AND LENGTHS, AND ALL REQUIRED INFORMATION NOT SPECIFIED ON THE TYPICAL CONNECTION DETAILS.
14. THE DESIGN OF ALL STEEL CONNECTIONS (EXCEPT PREDESIGNED CONNECTIONS THAT HAVE BEEN ENGINEERED ON THESE DRAWINGS) SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT, EMPLOYED BY THE FABRICATOR. THE FABRICATOR'S REGISTERED PROFESSIONAL ENGINEER SHALL SUBMIT COMPLETE DESIGN CALCULATIONS FOR EACH CONNECTION. SUCH CALCULATIONS SHALL SHOW DETAILS OF THE ASSEMBLED JOINT WITH ALL BOLTS AND WELDS REQUIRED.
15. ALL DESIGN CALCULATIONS SHALL BE SEALED BY THE FABRICATOR'S PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT. SHOP DRAWINGS SUBMITTED WITHOUT COMPLETE DESIGN CALCULATIONS WILL NOT BE REVIEWED.
16. WELDING ELECTRODES SHALL BE E 70XX OR BETTER. FOR WELDING SYMBOLS WITH NO LENGTH DIMENSION GIVEN, THE WELDING SHALL BE CONTINUOUS BETWEEN ABRUPT CHANGES IN DIRECTION.
17. UTILIZE SLIP CRITICAL BOLTS AT ALL MOMENT CONNECTIONS, HANGING CONNECTIONS, BRACING CONNECTIONS, AND COLUMN SPLICES.
18. ALL STRUCTURAL STEEL MEMBERS EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED UNLESS NOTED OTHERWISE. THIS INCLUDES BUT IS NOT LIMITED TO MASONRY LINTELS AND SHELF ANGLES, INCLUDING BEARING PLATES AND ANCHOR BOLTS, AND ANY OTHER ITEM LISTED ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.
    UNLESS NOTED OTHERWISE, ALL PIPE AND TUBE COLUMNS SHALL BE SEAL WELDED WITH CLOSURE PLATES TO BE AIR TIGHT. ARCHITECTURAL PIPES AND TUBULAR BEAMS SHALL BE PROVIDED WITH 3/8" DIAMETER WEEP HOLES.
19. LOCATION OF ANCHOR RODS SHALL BE CONFIRMED BY A LICENSED SURVEYOR BEFORE ERECTION OF STEEL.
20. COLUMNS AND BEAMS WITH BASE, CAP OR END PLATES SHALL HAVE SQUARE CUT OR MILLED ENDS.
21. THE FRAMING SHALL BE ERECTED TRUE AND PLUMB. TEMPORARY BRACING SHALL BE PROVIDED AND SHALL REMAIN IN PLACE UNTIL THE LATERAL BRACING SYSTEM IS IN PLACE AND CONNECTIONS OF ALL MEMBERS ARE FINAL AND ALL DECK IS COMPLETELY ERECTED, WELDED AND SCREWED IN PLACE.
22. NON-METALLIC, NON-SHRINK, NON-STAINING GROUT UNDER ALL COLUMN BASE PLATES AND BEAM BEARING PLATES SHALL CONSIST OF A PREMIXED PRODUCT COMPLYING WITH ALL REQUIREMENTS OF CRD-C621, ASTM C827, AND C109.
23. HEADED SHEAR CONNECTORS SHALL BE MADE FROM STEEL CONFORMING TO ASTM A108, TYPE B, GRADE 1010 THROUGH 1020.
24. STUD TYPE EXPANSION ANCHORS SHALL BE CARBON STEEL (UNLESS NOTED OTHERWISE ON DRAWINGS) CONFORMING TO THE REQUIREMENTS OF THE MANUFACTURER'S RECOMMENDATIONS. SEE DRAWINGS FOR LOCATIONS AND TYPE.
25. ALL STRUCTURAL STEEL MEMBERS (BEAMS AND COLUMNS) ADJACENT TO OR BUILT INTO MASONRY CONSTRUCTION SHALL BE PROVIDED WITH 12 GAUGE GALVANIZED WELD-ON CHANNEL SLOTS AND 3/16" x 1 1/4" HOOKED GALVANIZED ANCHORS, SPACED 16" ON CENTER VERTICALLY AND 24" ON CENTER HORIZONTALLY, MAXIMUM.
26. ALL DISSIMILAR METALS TO BE SEPARATED BY ELECTROLYTIC SEPARATORS.
27. DO NOT PAINT:
    A. SURFACES OF CONNECTIONS INDICATED AS SLIP CRITICAL.
    B. SURFACES OF CONNECTIONS TO BE FIELD WELDED.
    C. SURFACES TO RECEIVE HEADED SHEAR CONNECTIONS.
    D. MEMBERS TO BE EMBEDDED IN CONCRETE OR MASONRY.
    E. SURFACES TO RECEIVE SPRAYED ON INSULATION.
    F. MEMBERS TO BE GALVANIZED.

COLD FORMED LIGHT GAGE STEEL FRAMING:

1. ALL COLD FORMED FRAMING SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
2. ALL COLD FORMED STEEL FRAMING SHALL BE GALVANIZED. CONFORMING TO ASTM A653.
3. COLD FORM STEEL MEMBER 16 GA. OR THICKER SHALL BE FORMED FROM 50 KSI YIELD STRENGTH STEEL. COLD FORMED MEMBERS THINNER THAN 16 GA. SHALL BE FORMED FROM 33 KSI YIELD STRENGTH STEEL.
4. SCREW OF WELD ALL CONNECTIONS. TOUCH UP ALL WELDS WITH ASTM A924 ZINC RICH PAINT.
5. AXIALLY LOADED STUDS SHALL BE INSTALLED SO THE ENDS POSITIONED AGAINST THE INSIDE OF THE RUNNER TRACK WEB PRIOR TO FASTENING AND SHALL BE ATTACHED TO BOTH FLANGES OF THE UPPER AND LOWER RUNNER TRACKS.
6. DIAGONAL STRAP BRACING SHALL BE CONNECTED TO ALL CROSSING VERTICAL MEMBERS.
7. SUGGESTED MEMBER SIZES INDICATED ON DRAWINGS ARE BASED ON DIETRICH INDUSTRIES 1 5/8" FLANGE CSJ SECTION PROPERTIES. ALTERNATE MANUFACTURERS ARE PERMITTED PROVIDED THEY MATCH OR EXCEED SPANNING DIETRICH SECTION PROPERTIES AND MEMBER CAPACITIES.
8. THE CONTRACTOR SHALL SUBMIT CALCULATIONS, CONNECTIONS, AND SHOP DRAWINGS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

STRUCTURAL DELEGRATED DESIGN AND DEFERRED SUBMITTALS:

1. STRUCTURAL DELEGATED DESIGN AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ELEMENTS, PARTS, OR PORTIONS OF THE OVERALL STRUCTURAL SYSTEM THAT ARE INDICATED OR REFERRED TO ON THESE DRAWINGS AND THAT ARE CRITICAL TO THE PERFORMANCE OT THE OVERALL STRUCTURAL SYSTEM DESIGN CRITERIA HAS BEEN PROVIDED FOR THESE ITEMS IN THE STRUCTURAL NOTES, PLANS, AND DETAILS.
2. STRUCTURAL DEFERRED SUBMITTALS ARE COMPLETE PACKAGE TO BE SUBMITTED FOR REVIEW THAT INCLUDE DRAWINGS AND CALCULATIONS FOR ALL DELEGATED DESIGN ITEMS AND THIER CONNECTIONS. DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THIER DESIGN.
3. OEC WILL REVIEW STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN CRITIERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS.
4. STRUCTURAL DELEGATED DESIGN COMPONETS SHALL NOT BE INSTALLED UNTIL APPROVED BY THE BUILDING OFFICAL.
5. STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO:
   A. OPEN WEB JOINST & GIRDERS, BRACING, CONNECTIONS, AND RELATED COMPONENTS.
   B. PRE-CAST CONCRETE ELEMENTS AND THEIR CONNECTIONS.
   C. STUCTRUAL STEEL BRACES, GUSSET PLATES, AND CONNECTIONS.

NON-STRUCTURAL DELEGRATED DESIGN AND DEFERRED SUBMITTALS:

1. NON-STRUCTURAL DELEGATED DESIGN AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ITEMS NOT INCLUDED IN THE STRUCTURAL DELEGATED DESIGN SECTION. THESE ARE ITEMS THAT ARE NOT CRITICAL TO THE OVERALL PERFORMANCE OF THE STRUCTURAL SYSTEM BUT THAT IMPACT LOADS AND FORCES TO THE STRUCTURAL SYSTEM.
2. NON-STRUCTURAL DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN.
3. OEC WILL REVIEW NON-STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN CRITIERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS.
4. IF THE STRUCTURAL DRAWINGS INCLUDE LOADS TO ACCOMMODATE NON-STRUCTURAL ELEMENTS, THE CONTRACTOR SHALL SUBMIT DOCUMENTS INDICATING THAT THE NON-STRUCTURAL ELEMENTS COMPLY WITH THE LOADING CRITERIA PROVIDED HEREIN. SUCH DOCUMENTATION SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN.
5. WHEN THE NON-STRUCTURAL DEFERRED SUBMITTAL INDICATES THAT THE ELEMENT WILL IMPACT FORCES IN EXCESS OF LOADS THAT ARE INDICATED ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL SUBMIT A DETAILED GRAFHICAL REPRESENTATION OF THOSE DESIGN LOADS, INCLUDING MAGNITUDE, AND LOACTION. THE GRAPHIC SHALL BE ACCOMPANIED BY DOCUMENTATION INDICATING THAT THE NON-STRUCTURAL ELEMENT DESIGN COMPLIES WITH THE LOADING CRITERIA PROVIDED HEREIN. THE LETTER SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN.
6. NON-STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO:
   A. COLD FORMRD STEEL STUDS / JOISTS / HEADERS / JAMBS / TRUSSES.
   B. STRUCTURAL STEEL STAIRS.

MECH'L, ELEC'L, PLUMBING, FIRE PROTECTION & OTHER SUSPENDED ITEM:

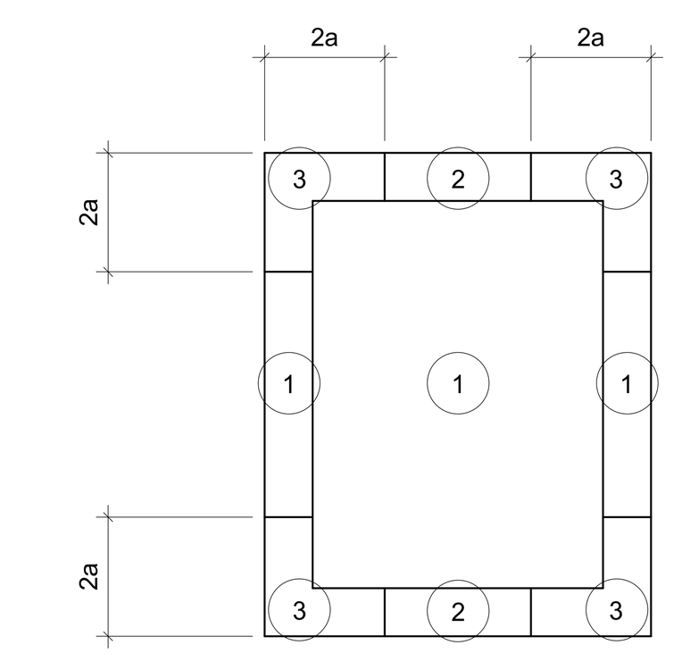
1. SUPPORT ROOF TOP MECHANICAL EQUIPMENT ON STEEL FRAMES (UNO). MECHANICAL CONTRACTOR MUST SUPPLY SIZES, LOCATIONS AND OPENING REQUIREMENTS TO THE STEEL FABRICATOR PRIOR TO FABRICATION. DEVIATIONS AND/OR MODIFICATIONS TO THE SUPPORTING STRUCTURE AFTER FABRICATION AND/OR ERECTION HAVE COMMENCED SHALL BE THE RESPONSIBILITY OF THE SPECIFIED EQUIPMENT SUPPLIER AT NO ADDITIONAL COST TO THE STEEL FABRICATOR, OWNER OR CONSTRUCTION MANAGER.
2. THE STRUCTURE IN THE VICINITY OF LOADS IN EXCESS OF 400 POUNDS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER, PRIOR TO INSTALLATION.
3. SUPPORT OF CONDUIT, SPRINKLER, HVAC OR PLUMBING PIPING SHALL BE DISTRIBUTED SO AS NOT TO EXCEED THE UNIFORM LOADS INDICATED ON THE DRAWINGS. SUPPORT PIPING FROM ROLLED BEAMS OR CHANNELS FROM ANY LOCATION FROM EITHER TOP OR BOTTOM FLANGES. SUPPORT ITEMS FROM OPEN WEB JOISTS OR WF MEMBERS FROM THE TOP CHORD WHENEVER POSSIBLE. SUPPORT FROM TOP OR BOTTOM CHORDS OF JOISTS SHALL ONLY BE PERMITTED WITHIN 6" OF A PANEL POINT. RESULTING SINGLE HANGING LOAD ON A JOIST SHALL NOT EXCEED 300 POUNDS FOR A K-SERIES JOIST. MORE THAN TWO 300 POUND POINT LOADS ON A K-SERIES JOIST IS STRICTLY PROHIBITED. STAGGER HANGERS AND SUPPORTS FROM THE STRUCTURE SO AS TO DISTRIBUTE THE LOADS UNIFORMLY ACROSS STRUCTURAL MEMBERS. HANGERS FROM METAL ROOF DECK ARE STRICTLY PROHIBITED. DEVIATIONS FROM THE ABOVE CRITERIA SHALL BE REMEDIED BY THE INSTALLING CONTRACTOR.
4. CONNECTIONS TO SUPPORTING STRUCTURAL MEMBERS, WHETHER NEW OR EXISTING CONSTRUCTION, SHALL BE CLAMPING DEVICE WHICH DO NOT DAMAGE OR DEFORM THE STRUCTURAL ELEMENTS. WELDING TO OR DRILLING HOLES IN STRUCTURAL MEMBERS IS NOT PERMITTED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO LOCATE AND DISTRIBUTE HANGING LOADS AS REQUIRED SO AS TO NOT EXCEED THE LOAD CARRYING CAPACITY OF THE MEMBER.
5. COORDINATE CONNECTIONS AND ATTACHMENTS OF ALL MEP/FP ITEMS SUSPENDED FROM PRECAST CONCRETE PLANKS WITH PLANK MANUFACTURER'S REQUIREMENTS
6. TRAPEZING IS PERMITTED FOR MULTIPLE PIPE OR CONDUIT RUNS. LOADS FROM TRAPEZE HANGERS SHALL BE AS PREVIOUSLY NOTED FOR SUPPORTS FROM JOIST ELEMENTS. TRAPEZING IS NOT PERMITTED FOR PIPING AND/OR CONDUIT GREATER THAN 3" IN DIAMETER.
7. THE APPROPRIATE INSTALLING CONTRACTOR IS RESPONSIBLE FOR DETERMINING LOADS IMPOSED BY THE INSTALLED ITEMS. STAGGER HANGERS AND SUPPORTS FROM THE STRUCTURE SO AS TO DISTRIBUTE THE LOADS UNIFORMLY ACROSS STRUCTURAL MEMBERS.
8. WHERE 6" OR GREATER DIAMETER PIPES ARE PERPENDICULAR TO THE JOISTS, PROVIDE HANGER SUPPORTS FROM EVERY JOIST WITHIN TWELVE FEET OF THE END OF THE JOIST. STAGGER HANGERS TO DISTRIBUTE THE LOAD UNIFORMLY ACROSS THE STRUCTURE.
9. WHERE 6" OR GREATER DIAMETER PIPE ARE PARALLEL TO THE JOISTS, CENTER THE PIPE AND HANG THE PIPE FROM TWO JOISTS.
10. WHERE SUPPORT FROM JOISTS AT LOCATIONS OTHER THAN AT A PANEL POINT IS NOT POSSIBLE, ADDITIONAL WEB REINFORCING IS REQUIRED. REFER TO THE JOIST SUPPLIER AND/OR TYPICAL DETAIL INDICATED ON THE PLANS. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO COORDINATE THE LOCATIONS WITH THE STRUCTURAL STEEL FABRICATOR AND/OR ERECTOR PRIOR TO INSTALLATION.
11. CONTRACTORS INSTALLING MEP & FP SYSTEMS SHALL COORDINATE ROUTING PRIOR TO INSTALLATION SO AS TO DISTRIBUTE THE LOADING TO THE STRUCTURE UNIFORMLY. DO NOT HANG ALL SYSTEMS FROM THE SAME FRAMING MEMBER.
12. ALL HANGERS, WIRES, RODS ETC. FOR SUSPENDED ITEMS SUCH AS PIPING, CONDUIT, DUCT WORK, FIRE PROTECTION, SUSPENDED CEILINGS, TECHNOLOGY, ETC. SHALL BE INSTALLED FROM MAIN STRUCTURAL MEMBERS. HANGERS ATTACHED TO METAL ROOF DECK, JOIST BRIDGING OR FROM OTHER NON-STRUCTURAL SYSTEMS IS STRICTLY PROHIBITED.

SPECIAL INSPECTIONS:

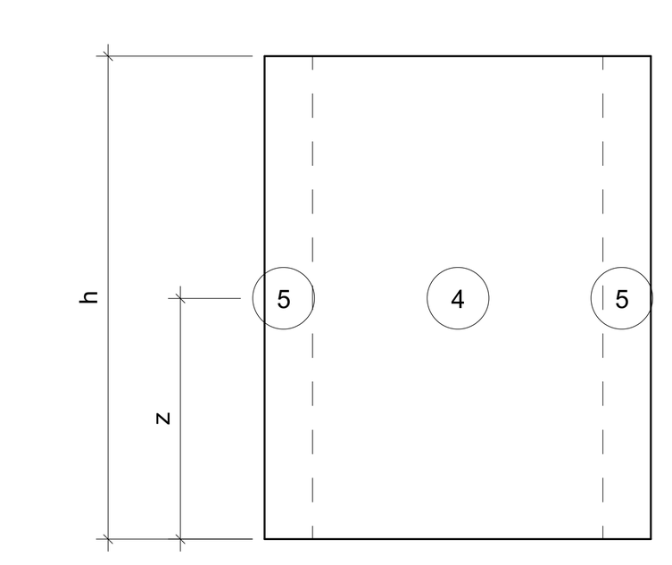
1. THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION AND TESTING PER OBC SECTION 1704.
2. THIS WORK SHALL BE PERFORMED BY A SPECIAL INSPECTOR CERTIFIED BY THE GOVERNING MUNICIPALITY WHERE THE PROJECT IS LOCATED TO PERFORM THE TYPES OF INSPECTIONS AND TESTS SPECIFIED.
3. THE FREQUENCY OF INSPECTIONS AND TESTING SHALL BE AS OUTLINED IN THE OBC TABLE ITEMS LISTED BELOW.
   A. DEFICIENCIES SHALL BE REPORTED DAILY TO THE CONTRACTOR.
   B. SUMMARY REPORTS SHALL BE DISTRIBUTED WEEKLY TO THE OWNER, ARCHITECT, CONTRACTOR, BUILDING OFFICIAL AND STRUCTURAL ENGINEER.
4. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SPECIAL INSPECTION AND TESTING.

SPECIAL INSPECTION

	TYPE	REQUIRED	CONTINUOUS	PERIODIC
1704.3 - STEEL				
1	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.	Yes	-	X
2	INSPECTION OF HIGH-STRENGTH BOLTING - BEARING CONNECTIONS.	Yes	-	-
3	INSPECTION OF HIGH-STRENGTH BOLTING: - SLIP CRITICAL CONNECTIONS.	Yes	X	-
4	MATERIAL VERIFICATION OF STRUCTURAL STEEL COLD-FORMED STEEL DECK	Yes	-	X
5	MATERIAL VERIFICATION OF WELD FILLER MATERIALS.	Yes	-	X
6	COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS.	No	X	-
7	MULTI-PASS FILLET WELDS.	No	X	-
8	SINGLE-PASS FILLET WELDS > 5/16".	No	X	-
9	PLUG AND SLOT WELDS	No	X	-
10	SINGLE-PASS FILLET WELDS < 5/16".	Yes	-	X
11	FLOOR AND ROOF DECK WELDS.	Yes	-	X
12	VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706.	Yes	-	X
13	WELDING OF REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES	No	X	-
14	WELDING OF SHEAR REINFORCMENT	Yes	X	-
15	INSPECTION OF STEEL FRAME JOINT DETAIL FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS.	No	-	X
16	COLDFORM STEEL TRUSSES SPANNING GREATER THAN 60 FEET	No	X	-
1704.4 - CONCRETE				
1	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	Yes	-	X
2	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.	Yes	-	X
3	INSPECTION OF CAST-IN-PLACE ANCHOR BOLTS.	Yes	X	-
4	INSPECTION OF POST INSTALLED ANCHORS	Yes	-	X
5	VERIFY USE OF REQUIRED DESIGN MIX.	Yes	-	X
6	SAMPLING SPECIMEN FOR TESTING	Yes	X	-
7	VERIFY CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Yes	X	-
8	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	Yes	-	X
9	PRESTRESSED CONCRETE - APPLICATION OF PRESTRESSING FORCES AND GROUTING BONDED TENDONS	No	X	-
10	PRECAST CONCRETE - ERECTION OF MEMBERS.	Yes	-	X
11	POST TENSIONED CONCRETE - VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORESS AND FORMS FROM BEAMS AND STRUCTURAL SLAB.	No	-	X
12	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	Yes	-	X
1704.5.1 - MASONRY LEVEL 1				
1	VERIFICATION OF f'm.	Yes	-	X
2	VERIFICATION OF SLUMP FLOW	Yes	X	-
3	PROPORTION OF SITE-PREPARED MORTAR	Yes	-	X
4	CONSTRUCTION OF MORTAR JOINTS	Yes	-	X
5	LOCATION OF REINFORCEMENT	Yes	-	X
6	SIZE AND LOCATION OF STRUCTURAL ELEMENTS	Yes	-	X
7	TYPE, SIZE AND LOCATION OF MASONRY ANCHORAGE TO STRUCTURAL MEMBERS	Yes	-	X
8	TYPE, SIZE AND GRADE OF REINFORCEMENT AND ANCHOR BOLTS	Yes	-	X
9	WELDING OF REINFORCING BARS	Yes	X	-
10	COLD WEATHER CONSTRUCTION	Yes	-	X
11	PRIOR TO GROUTING - CLEANING, REINFORCMENT PLACEMENT, GROUT PROPOTION AND MORTAR JOINTS	Yes	-	X
12	GROUT PLACEMENT	Yes	X	-
13	PREPARATION OF GROUT AND MORTAR SPECIMEN FOR TESTING	Yes	-	X
1704.5.3 - MASONRY LEVEL 2				
1	VERIFICATION OF f'm FOR EVERY 5000 SF	No	-	X
2	VERIFICATION OF PROPORTIONS OF MATERIALS IN PREMIXED OR PREBLENDED MORTAR OR GROUT	No	-	X
3	VERIFICATION OF SLUMP	No	X	-
4	PROPORTION OF SITE-PREPARED MORTAR	No	-	X
5	PLACEMENT OF MASONRY UNIT AND CONSTRUCTION OF MORTAR JOINT	No	-	X
6	PLACEMENT OF REINFORCEMENT	No	-	X
7	GROUT SPACE PRIOR TO GROUTING	No	X	-
8	GROUT PLACEMENT	No	X	-
9	SIZE AND LOCATION OF STRUCTURAL ELEMENTS	No	-	X
10	TYPE, SIZE AND LOCATION OF MASONRY ANCHORAGE TO STRUCTUAL MEMBERS	No	X	-
11	TYPE, SIZE AND GRADE OF REINFORCMENT AND ANCHOR BOLTS	No		X
12	WELDING OF REINFORCING BARS	No	X	-
13	COLD WEATHER CONSTRUCTION	No	-	X
14	PREPARATION OF GROUT AND MORTAR SPECIMENT FOR TESTING	No	X	-
1704.6 - WOOD				
1	FABRICATED LOAD BEARING ASSEMBLIES (TRUSSES/COMPOSITE i-JOISTS) CONDUCTED ON THE PREMISES OF THE FABRICATORS SHOP.	No	X	-
2	HIGH-LOAD DIAPHRAGMS	No	X	-
3	METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING GREATER THAN 60 FEET	No	X	-
1704.7 - SOIL				
1	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	Yes	-	X
2	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	Yes	-	X
3	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	Yes	-	X
4	VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	Yes	X	-
5	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	Yes	-	X
1704.8 - DRIVEN DEEP FOUNDATION ELEMENTS				
1	VERIFY ELEMENT MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS.	No	X	-
2	DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.	No	X	-
3	INSPECT DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	No	X	-
4	VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.	No	X	-
5	FOR STEEL ELEMENTS, PERFORM ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1704.3.	No	-	-
6	FOR CONCRETE ELEMENTS AND CONCRETE-FILLED ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1704.4.	No	-	-
7	FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	No	-	-
1704.9 - CAST-IN-PLACE DEEP FOUNDATION ELEMENTS				
1	INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	No	X	-
2	VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	No	X	-
3	FOR CONCRETE ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1704.4.	No	-	-
OPEN-WEB STEEL JOIST AND GIRDER				
1	INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS INCLUDING END CONNECTION AND BRIDGING.	Yes		



ROOF PLAN

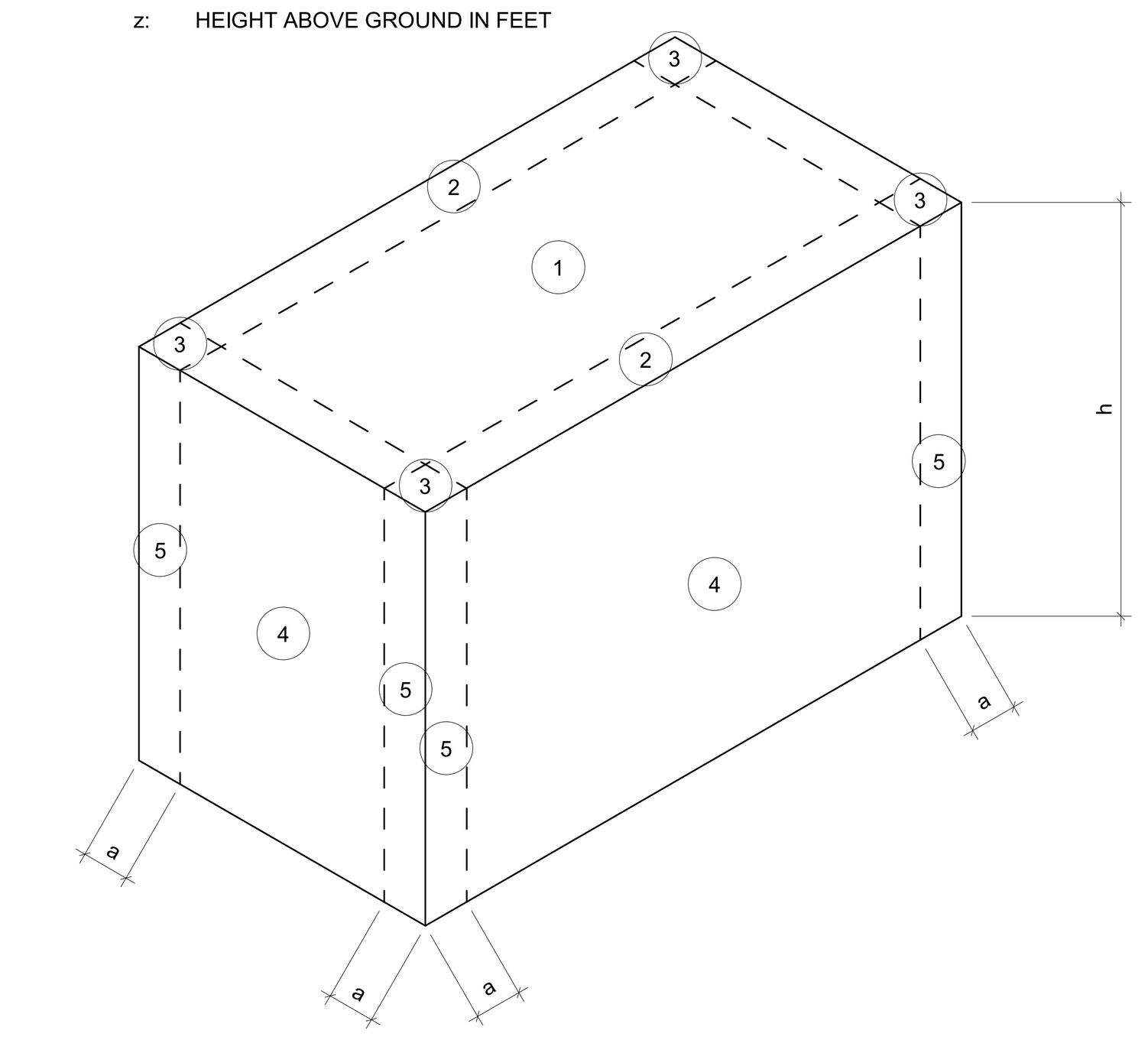


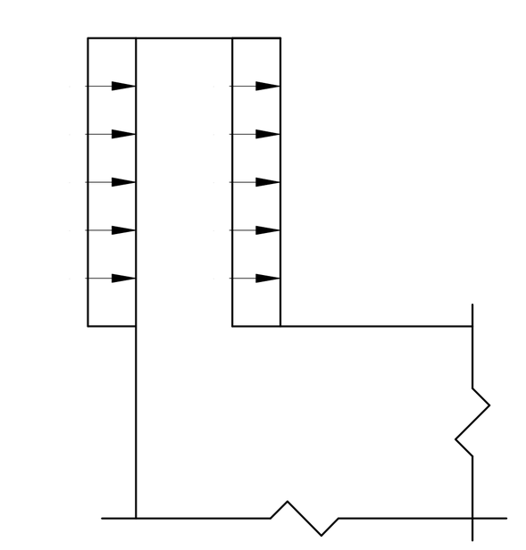
WALL ELEVATION

a: END ZONE WIDTH IN FEET = 10 PERCENT OF BUILDING LEAST HORIZONTAL DIMENSION OR 0.4h WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 3 FEET.

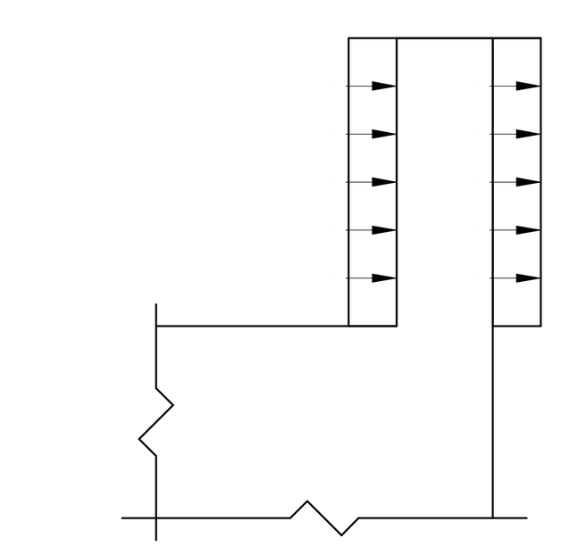
h: MEAN ROOF HEIGHT IN FEET, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR EAVE ANGLES < 10°

z: HEIGHT ABOVE GROUND IN FEET





CASE A: WINDWARD PARAPET



CASE B: LEEWARD PARAPET

ULTIMATE WIND COMPONENT AND CLADDING LOADS

COMPONENT AREA	ROOF ZONE 1		ROOF ZONE 2		ROOF ZONE 3		WALL ZONE 4		WALL ZONE 5	
	PRESSURE	SUCTION	PRESSURE	SUCTION	PRESSURE	SUCTION	PRESSURE	SUCTION	PRESSURE	SUCTION
10 SF	16	-24	16	-40	16	-60	22	-24	22	-29
20 SF	16	-23	16	-36	16	-50	21	-23	21	-27
50 SF	16	-22	16	-30	16	-36	20	-21	20	-25
100 SF	16	-22	16	-26	16	-26	19	-20	19	-23

ULTIMATE PARAPET C&C WIND SURFACE PRESSURES (PSF)

CASE	PARAPET ZONE	EFFECTIVE WIND AREA					
		10 SF	20 SF	50 SF	100 SF	200 SF	500 SF
CASE A	4	55	50	42	37	36	35
CASE A	5	75	63	48	37	36	35
CASE B	4	-38	-36	-34	-32	-30	-27
CASE B	5	-44	-41	-37	-34	-31	-27

PROJECT NO
2203-2

ARCHITECTURAL VISION GROUP, LTD
ARCHITECTS ○ PLANNERS
23850 SPERRY DRIVE CLEVELAND, OHIO 44145

PROFESSIONAL SEAL:
STATE OF OHIO
MICHAEL G. LINDAWAN
PE.82391
REGISTERED
PROFESSIONAL ENGINEER

CONSULTANT:
OSBORN ENGINEERING
1100 Superior Avenue - Suite 300 | Cleveland, OH 44114
(216) 861-2020 www.osborn-eng.com

MASSILLON CITY SCHOOLS
MASSILLON EAST ELEMENTARY PK-3
1 PAUL E BROWN DRIVE SE, MASSILLON, OHIO 44646
MASSILLON CITY SCHOOL DISTRICT MASSILLON, OHIO

MARK	DATE	DESCRIPTION
	7.12.23	100% BID PERMIT SET

ISSUED AS:

PROJECT NO	2203-2
DRAWN BY	OEC
CHECKED BY	OEC
DATE	

GENERAL NOTES

SCALE: 12" = 1'-0"

SHEET NO
S-002