

STRUCTURAL GENERAL NOTES

- I. GENERAL:**
- THE FOLLOWING NOTES ARE APPLICABLE TO ALL DRAWINGS IN ADDITION TO THE PROJECT SPECIFICATIONS.
 - APPLICABLE STRUCTURAL CODE FOR THE MODULAR BUILDING, INTERNATIONAL BUILDING CODE, 2015 EDITION, APPLICABLE STRUCTURAL CODE FOR FOUNDATION AND ALL OTHER SITE SPECIFIC ELEMENTS, INTERNATIONAL BUILDING CODE 2015 EDITION, THE STRUCTURE IS IN FULL COMPLIANCE WITH THE CODES LISTED.
 - THE STANDARDS REFERENCED IN THE DRAWINGS (I.e. AISC, AISI, ETC.) SHALL BE THE EDITION SPECIFIED IN CHAPTER 35 OF THE BUILDING CODE.
 - THE CONTRACTOR SHALL USE MATERIALS AND EMPLOY CONSTRUCTION METHODS IN ORDER TO COMPLY WITH THE DRAWINGS AND SPECIFICATIONS. WHERE A CONFLICT OCCURS, THE STRICTEST DESIGN SHALL GOVERN. ENGINEERS REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. DOES NOT RELIEVE THE CONTRACTOR FROM MEETING THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY SPECIFIC DEVIATIONS AND OBTAIN ENGINEER'S WRITTEN APPROVAL FOR THE SPECIFIC DEVIATION.
 - THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL FURNISH TEMPORARY SHORING AND BRACING.
 - THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE SPRINKLER, AND ELECTRICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL REQUIREMENTS INTO THE SHOP DRAWINGS AND CONSTRUCTION.
 - IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
 - CONNECTIONS OF ALL ITEMS SUPPORTED BY THE STRUCTURE ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL MAKE THESE ATTACHMENTS SHALL BE DESIGNED TO RESIST ALL GRAVITY, WIND, WIND UPLIFT, THERMAL LOADS, ETC.
 - WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION OR A NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS.
 - UNLESS NOTED, ELEVATIONS SHOWN ARE TO TOP OF BEAMS AND FOUNDATIONS.
 - UNLESS NOTED, SUBMIT SHOP DRAWINGS OF ALL FABRICATED MATERIALS FOR REVIEW. DESIGN DRAWINGS SHALL NOT BE REVIEWED FOR AS-BUILT SHOP DRAWINGS. SHOP DRAWINGS WILL NOT BE REVIEWED UNLESS THEY WERE CHECKED, BEAR THE INITIAL OF THE CHECKER AND ARE STAMPED "APPROVED" BY THE GENERAL CONTRACTOR.
 - ALL REQUIRED TESTING REPORTS SHALL BE AVAILABLE AT THE JOB SITE.
 - EQUIPMENT WEIGHTS SHOWN ON THE STRUCTURAL DRAWINGS ARE MAXIMUM OPERATING WEIGHT INCLUDING CURBS AND MISCELLANEOUS.

- 2. DESIGN CRITERIA:**
- A. DEAD & LIVE LOADS**
- DEAD LOAD:
 - SLABING FLOOR = 30 PSF
 - SLABING ROOF = 12 PSF
 - ROOF LIVE LOAD = 20 PSF (REDUCIBLE)
 - FLOOR LIVE LOAD = 100 PSF
- B. OCCUPANCY CATEGORY - II**
- C. SNOW LOADS**
- GROUND SNOW LOAD = 10.0 PSF
 - FLAT ROOF SNOW LOAD = 2.0 PSF
 - SNOW EXPOSURE FACTOR, $C_e = 1.0$
 - THERMAL FACTOR, $C_t = 1.0$ (BUILDING), 1.2 (CANOPY)
 - SNOW LOAD IMPORTANCE FACTOR, $I_s = 1.0$
 - ALL APPLICABLE EFFECTS DUE TO SNOW DRIFTING
- D. WIND LOADS (ASCE 7-10)**
- ULTIMATE WIND SPEED = 115 MPH (99.1 MPH NOMINAL)
 - WIND LOAD IMPORTANCE FACTOR = 1.0
 - WIND EXPOSURE CATEGORY B FOR MAIN WIND FORCE-RESISTING SYSTEM
 - WIND EXPOSURE CATEGORY B FOR COMPONENTS AND CLADDING
- E. EARTHQUAKE DESIGN DATA**
- SEISMIC IMPORTANCE FACTOR, $I = 1.0$
 - MAPPED SPECTRAL RESPONSE ACCELERATIONS
 - $S_s = 0.305$
 - $S_1 = 0.112$
 - DESIGN SPECTRAL RESPONSE PARAMETERS
 - $S_{d1} = 0.316$
 - $S_{d2} = 0.175$
 - SEISMIC DESIGN CATEGORY = C
 - BASIC SEISMIC-FORCE-RESISTING SYSTEM = MULTIPLE
 - DESIGN BASE SHEAR, $V = C_w W$
 - SEISMIC RESPONSE COEFFICIENT, $C_s = 0.127$
 - RESPONSE MODIFICATION FACTOR, $R = 2.5$
 - ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE ANALYSIS
- F. DESIGN LOAD COMBINATIONS**
- D
 - D + L
 - D + (L/R OR S OR R)
 - D + 0.75L + 0.75(L/R OR S OR R)
 - D + (W OR W/T)
 - D + 0.75L + 0.75(W) + 0.75(L/R OR S OR R)
 - D + 0.75L + 0.75(W/T) + 0.75S
 - 0.6D + 0.6W
 - 0.6D + 0.6E
- G. STRESS INCREASES:** INCREASES IN ALLOWABLE STRESSES SPECIFIED IN THE APPROPRIATE MATERIAL CHAPTER OR THE REFERENCED STANDARDS SHALL NOT BE USED WITH THE LOAD COMBINATIONS, EXCEPT THAT A DURATION OF LOAD INCREASE SHALL BE PERMITTED IN ACCORDANCE WITH CHAPTER 23.

- 3. SHALLOW FOUNDATIONS AND BUILDING PAD:**
- A. DESIGN PARAMETERS:** THE FOUNDATION HAS BEEN DESIGNED USING THE FOLLOWING ASSUMPTIONS. DESIGN "NET" SOIL BEARING PRESSURE 2500 PSF. MAXIMUM TOTAL FOUNDATION AND SLAB SETTLEMENT 1" AND DIFFERENTIAL SETTLEMENT 1/2" OVER A DISTANCE OF 30 FEET. MINIMUM SUBGRADE MOULUS 115 PCL. FROST PENETRATION 18 INCHES BELOW ADJACENT FINISHED GRADE. ALL DESIGN PARAMETERS SHALL BE VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPORT ADVERSE CONDITIONS.
- B. THE SITE SHALL BE PREPARED UNIFORM IN ACCORDANCE WITH CIVIL DRAWINGS, SPECIFICATIONS AND GEOTECHNICAL REPORT No. PAME-17-SC-0107-01, PREPARED BY UNITED CONSULTING, DATED JANUARY 26, 2016. THE MOST CONSERVATIVE RECOMMENDATIONS SHALL GOVERN.**
- C. WHERE FILL IS REQUIRED IT SHALL BE PLACED IN ACCORDANCE WITH RECOMMENDATIONS AND UNDER THE OBSERVATION OF A QUALIFIED GEOTECHNICAL ENGINEER.**
- D. ALL EXCAVATIONS AND BUILDING PADS SHALL BE OBSERVED BY A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY THE DESIGN CRITERIA AND REPORT ADVERSE CONDITIONS. (GEOTECHNICAL ENGINEER TO BE HIRED AND PAID BY THE OWNER) CERTIFICATION OF EXCAVATION SHALL BE PROVIDED TO BUILDING OFFICIAL IN CASE OF CONFLICT BETWEEN THE GEOTECHNICAL REPORT SPECIFICATIONS AND DRAWINGS. THE MORE STRINGENT REQUIREMENT SHALL APPLY.**
- E. FOOTING ELEVATIONS GIVEN ARE FOR PURPOSE OF CONTRACT AND SHALL BE ADJUSTED (LOWERED) AT TIME OF EXCAVATION TO MEET SOIL CONDITIONS. ENGINEER SHOULD BE CONSULTED.**
- F. GRANULAR BASE BELOW SPREAD FOOTINGS SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE RECOMMENDATIONS AND UNDER THE OBSERVATION OF A QUALIFIED GEOTECHNICAL ENGINEER.**
- G. THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT THE LOCATION OF EXISTING UTILITIES AND PROCEED WITH THE WORK ONLY AFTER WRITTEN APPROVAL FROM THE ARCHITECT.**
- H. EXCAVATIONS FOR CONTINUOUS FOOTINGS SHALL BE MADE TRUE TO LINE AND GRADE. THE SIDES OF THE EXCAVATION STAND FIRM AND SQUARE. EXCAVATIONS SHALL BE MADE TO FIRM, CLEAN BEARING SOIL.**
- I. EXCAVATIONS FOR FOOTINGS AND FOUNDATIONS, WHICH ARE TO SERVE AS FORMS, SHALL BE THOROUGHLY WET PRIOR TO PLACING CONCRETE.**

4. CONCRETE:

A. CONCRETE SHALL CONFORM WITH ACI BUILDING CODE AND SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH, DENSITY, AND WATER-CONTENT IN ACCORDANCE WITH THE FOLLOWING:

STRENGTH	DENSITY	MAX W/C RATIO
PSI	PCF	
4000	145	0.45
3000	145	0.55
3000	145	0.55

B. UNLESS NOTED, CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II. AGGREGATES SHALL BE NORMAL WEIGHT CONFORMING TO ASTM C33. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED.

C. CONCRETE EXPOSED TO WEATHER (I.E. EXPOSED EXTERIOR SLABS, CONCRETE WALLS, RETAINING WALLS, ETC.) SHALL BE AIR-ENTRAINED IN ACCORDANCE WITH ACI 318, TABLE 4.2.1.

D. UNLESS NOTED, MAXIMUM SLUMP FOR CONCRETE SHALL BE 4 INCHES (PLUS OR MINUS ONE INCH) AT POINT OF PLACEMENT. UNLESS NOTED, MAXIMUM SLUMP FOR 4000 PSI CONCRETE FOR ELEVATED SLAB, SLAB-ON-GRADE SHALL BE 4" AT POINT OF PLACEMENT. WHERE APPROVED BY THE ENGINEER OF RECORD, LARGER SLUMP IS PERMITTED WITH THE ADDITION OF HIGH RANGE WATER REDUCING ADMIXTURE.

E. CONCRETE SHALL COMPLY WITH ACI 308. CURING PROCESS SHALL START IMMEDIATELY FOLLOWING INITIAL SET PER ACI 318 SECTION 5.11.1 IN CODE. CONCRETE SHALL BE MAINTAINED IN MOIST CONDITION FOR AT LEAST 7 DAYS AFTER PLACEMENT UNLESS PROVISIONS OF SECTION 1005.11.3 ARE FOLLOWED.

F. HOT WEATHER CONCRETING: SPECIAL PRECAUTIONS RECOMMENDED BY ACI 308 SHALL BE TAKEN WHEN THE AMBIENT TEMPERATURE IS ABOVE 80 DEGREES FAHRENHEIT OR WHEN MAXIMUM RATE OF EVAPORATION IN THE CONCRETE EXCEEDS 0.2 LBS/FT²/HR. THIS RATE IS AFFECTED BY AIR TEMPERATURE, RELATIVE HUMIDITY, CONCRETE TEMPERATURE AND WIND VELOCITY (SEE ACI 308). AFTER FINISHING CONCRETE, USE LIGHT FOG SPRAY UNTIL CURING COMPOUND IS USED, OR WET CURING METHOD IS IMPLEMENTED.

G. COLD WEATHER CONCRETING: WHEN FOR MORE THAN THREE (3) CONSECUTIVE DAYS, THE MEAN DAILY TEMPERATURE DROPS BELOW 40 DEGREES FAHRENHEIT, SPECIAL MATERIALS AND PROCEDURES SHALL BE PROVIDED DURING PLACING AND CURING OF CONCRETE PER ACI 306.

- 5. REINFORCING STEEL:**
- A. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60 (U.N.) AND GRADE 40 FOR #5 AND SMALLER BARS. GRADE 60 REINFORCING MAY NOT BE RE-BENT OR FIELD BENT WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.**
- B. WELDED WIRE REINFORCING SHALL CONFORM TO ASTM A-185, MINIMUM LAP SHALL BE 8" U.N.**
- C. NO TACK WELDING OF REINFORCING IN THE FIELD WILL BE PERMITTED.**
- D. ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND THE LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAIL REINFORCED CONCRETE STRUCTURES."**
- E. PROVIDE A MINIMUM BAR LAP OF 60 BAR DIAMETERS, STAGGER WHERE POSSIBLE.**
- F. MINIMUM CONCRETE COVER FOR REINFORCING BARS NOTED ON DRAWINGS. CONCRETE REINFORCING SHALL BE PLACED PER THE TOLERANCES OF ACI 117 AND ACI 318**

LOCATION	MINIMUM COVER
FOOTINGS, GRADE BEAMS AND SLABS CAST AGAINST A PERMANENTLY EXPOSED TO EARTH	3"

- 6. STRUCTURAL STEEL:**
- A. CONFORM TO AISC MANUAL OF STEEL CONSTRUCTION, 13TH EDITION.**
- B. MATERIALS:**
- ASTM A36, Fy=36 KSI UNLESS NOTED.
 - ASTM A992, Fy=50 KSI WHERE SPECIFICALLY NOTED ON THE DRAWINGS.
 - ASTM A502, Fy=50 KSI FOR SQUARE AND RECTANGULAR HSS.
 - ASTM A53, TYPE S, GRADE B, Fy=35 KSI FOR PIPES.
 - ASTM A307 BOLTS (U.N.O.)
 - ASTM A307, GRADE A, FOR HOOKED ANCHOR BOLTS.
 - ASTM A36, FOR THROUGH ROD ANCHORS.
 - ASTM F1554 GR 36, FOR THROUGH ROD ANCHORS NOTED ON DRAWINGS.
 - ASTM A108 & A118 S D 11, FOR SHEAR STUDS.
- C. STEEL MEMBERS SUPPORTING STEEL DECK AT THE PERIMETER OF THE BUILDING SHALL BE CONTINUOUS.**
- D. STRUCTURAL STEEL SHALL RECEIVE ONE (1) SHOP COAT OF RUST INHIBITIVE PRIMER.**
- E. GROUT UNDER BASE PLATES SHALL BE SIKAGROUT 212 AS MANUFACTURED BY SIKA CORPORATION OR SET GROUT BY MASTER BUILDERS.**
- F. STEEL COLUMNS AND BASE PLATES SHALL HAVE MINIMUM 3" CONCRETE COVER PROTECTION.**
- G. STEEL SHIMS SHALL CONFORM TO ASTM 1011 GRADE, UNLESS NOTED OTHERWISE.**

- 7. WELDING:**
- A. ALL STRUCTURAL STEEL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D 1.1, LATEST EDITION.**
- B. ALL STRUCTURAL STEEL WELDING ELECTRODES SHALL CONFORM TO AWS A5.1.**
- C. FIELD WELDING SHALL BE PER THE ERECTION DRAWINGS.**
- D. ALL FIELD PARTIAL AND FULL PENETRATION WELDS SHALL BE INSPECTED AND TESTED BY A TESTING AGENCY TO BE PAID BY THE CONTRACTOR.**
- E. PAINT ALL WELDS WITH RUST INHIBITIVE PAINT.**
- F. PROOF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.**

- 8. STEEL FLOOR DECK:**
- A. CONFORM TO STEEL DECK INSTITUTE DESIGN MANUAL, LATEST EDITION.**
- B. UNLESS NOTED, STEEL FLOOR DECK SHALL BE 30" WIDE 1-1/2" DEEP INTERMEDIATE RIB (TYPE F) -22 GA. GALVANIZED, MINIMUM YIELD STRENGTH 33,000 PSI.**
- C. STEEL FLOOR DECK SHALL BE ATTACHED TO THE SUPPORTS WITH #12 HEX HEAD SCREWS @ 12" O.C. MAX (U.N.O.).**
- D. SPACING OF CONNECTIONS SHALL BE AS FOLLOWS:**
- END LAPS:
 - AT SIDE LAPS AND MIDDLE OF SHEET.
 - INTERMEDIATE SUPPORT.
 - FOR BEAM SPACING UP TO 2'-0" AT SIDE LAP ON EVERY SECOND SUPPORT AND MIDDLE OF SHEET ON REMAINING SUPPORTS. FOR BEAM SPACING UP TO 3'-0" AT SIDE LAP ON EVERY SUPPORT, FOR BEAM SPACING UP TO 4'-0" AT SIDE LAP AND MIDDLE OF SHEET AT EVERY SUPPORT.

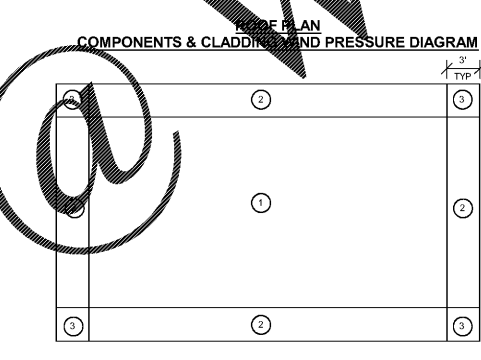
- 9. ROOF DECK AND WALL PANELS (U.N.):**
- A. CANOPY ROOF DECK (Fy=50 KSI MIN)**
- ROOF DECK SHALL BE 3'X16" ROLLED DECK (DECK GAUGE PER DRAWINGS)
 - ROOF DECK SHALL BE CONNECTED TO STEEL SUPPORT FRAMING AT SIDES AND END OF PANELS PER THE DRAWINGS.
- B. BUILDING ROOF DECK (Fy= 60 KSI MIN)**
- ROOF DECK SHALL BE 3'X16" ROLLED DECK (DECK GAUGE PER DRAWINGS)
 - ROOF DECK SHALL BE CONNECTED TO STEEL SUPPORT FRAMING AT SIDES AND END OF PANELS PER THE DRAWINGS.
- C. BUILDING WALL PANELS (Fy= 60 KSI MIN)**
- ROOF DECK SHALL BE 3'X16" ROLLED DECK (DECK GAUGE PER DRAWINGS)
 - WALL PANELS SHALL BE CONNECTED PER THE DRAWINGS.

- 10. COLD FORMED METAL FRAMING:**
- A. DESIGN, FABRICATIONS AND ERECTION SHALL CONFORM TO AISI SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS."**

- 11. SPECIAL INSPECTIONS:**
- A. SPECIAL INSPECTOR (SI) SHALL BE RETAINED AND PAID BY THE OWNER AND PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1704 AND 1705 OF THE CODE AS PER TABLE BELOW.**
- B. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.**
- C. THE DUTIES OF THE SPECIAL INSPECTOR SHALL INCLUDE, BUT ARE NOT LIMITED TO, VERIFICATION OF CONSTRUCTION QUALITY CONTROL, TESTING, COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS, BUILDING CODE REQUIREMENTS, AND LOCAL BUILDING DEPARTMENT REQUIREMENTS.**
- D. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE PROPER NOTIFICATION TO THE SPECIAL INSPECTOR AND PROCEED WITH THE CONSTRUCTION ONLY AFTER THE SPECIAL INSPECTOR'S APPROVAL.**
- E. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:**
- THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE INSPECTOR MAY NOT ALTER, MODIFY, ENLARGE OR WAIVE ANY OF THE REQUIREMENTS OF THE DOCUMENTS.
 - SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE CONSTRUCTION OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. THE CONTRACTOR AND THE OWNER, REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR AND THE OWNER FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND THE OWNER PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.
 - AT A FREQUENCY AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK, A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PERIODICALLY.
 - WHERE SPECIAL INSPECTION REQUIREMENTS DUPLICATE THE REQUIREMENTS OF SPECIFIED QUALITY ASSURANCE TESTING, DUPLICATE INSPECTIONS SHALL NOT BE REQUIRED.

- 12. INSPECTION OF FABRICATORS (1704.2.5)**
- 1. APPLICABLE ELEMENT (FABRICATOR CERTIFICATION REQUIREMENTS)**
- STRUCTURAL STEEL (ASCE CERTIFIED FOR CONVENTIONAL STEEL BUILDING OR APPROVED EQUAL BY THE BUILDING OFFICIAL. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY.
- 2. WHEN SPECIAL INSPECTIONS ARE REQUIRED BY BUILDING OFFICIAL**
- FABRICATION AND IMPLEMENTATION PROCEDURES: THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION, CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR FABRICATOR'S SCOPE OF WORK.
- 3. WHEN SPECIAL INSPECTIONS ARE NOT REQUIRED BY THE BUILDING OFFICIAL**
- UPON COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL. THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

LOCATION	DESCRIPTION	TYPE	CONNECTION & FASTENER PLACEMENT
ROOF	ROOF DECK	3'x16"x20GA ROLLED GALVALUME (Fy = 50ksi)	
	CONNECTION TO STEEL SUPPORTS	22GA x 2" CLIP @ RIB	AT EACH SUPPORT
WALL	WALL PANEL	3'x16"x20GA ROLLED STEEL (Fy = 50ksi)	
	CONNECTION - PANEL TO PANEL	#10 x 3/4" LG TEK SCREW	16" O.C.
	CONNECTION - PANEL TO STL POST (ADJACENT)	#10 x 3/4" LG TEK SCREW	16" O.C.



ZONE	EFFECTIVE WIND SF (SEE NOTE 1)	PRESSURE (PSF)	PRESSURE (PSF)
ROOF	1	10	+16.0
	2	50	+16.0
	3	10	+16.0
WALL	4	10	+21.8
	5	10	+19.5
	5	50	+19.5

- NOTES:**
- THE "ROOFING SYSTEM" SHALL BE BASED ON AN EFFECTIVE WIND AREA OF 10 SF.
 - PLUS AND MINUS SIGNS INDICATE PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
 - INDICATED PRESSURES ARE SERVICE LOADS.

SPECIAL INSPECTIONS APPLY TO WORK PERFORMED AT JOB SITE (U.N.)

SOILS (1705.6)	FREQUENCY	REFERENCE STANDARD
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	GEOTECHNICAL ENGINEERING REPORT
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC	GEOTECHNICAL ENGINEERING REPORT
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC	GEOTECHNICAL ENGINEERING REPORT
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS	GEOTECHNICAL ENGINEERING REPORT

INSPECTION OF FABRICATORS (1704.2.5)	FREQUENCY	REFERENCE STANDARD
1. USE OF QUALIFIED WELDERS	PERIODIC	6.4
2. CONTROL AND HANDLING OF WELDING CONSUMABLES	PERIODIC	6.2
3. NO WELDING OVER CRACKED TACK WELDS	PERIODIC	5.18
4. ENVIRONMENTAL CONDITIONS	PERIODIC	5.12
5. WELDING PROCEDURE SPECIFICATIONS (WPS) FOLLOWED	PERIODIC	6.3.3, 6.5.2, 5.5, 5.2.1
6. WELDING TECHNIQUES	PERIODIC	6.5.2, 6.5.3, 5.24, 5.30.1

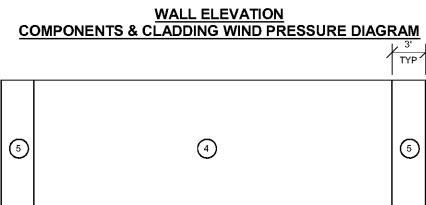
STRUCTURAL STEEL CONSTRUCTION (IBC-12 SECTION 1705.2, AISC 360-10 CHAPTER N, AISC 341-10 CHAPTER J)	FREQUENCY	REFERENCE STANDARD
1. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	CONTINUOUS	6.3
2. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	CONTINUOUS	6.2
3. MATERIAL IDENTIFICATION (TYPE/GRADE)	PERIODIC	6.2
4. WELDER IDENTIFICATION SYSTEM	PERIODIC	6.4
5. CONFIGURATION AND FINISH OF ACCESS HOLES	PERIODIC	6.5.2, 5.17
6. FIT-UP OF FILLET WELDS	PERIODIC	5.15, 6.5, 5.3
7. CHECK WELDING EQUIPMENT	PERIODIC	6.2, 6.11

INSPECTION TASKS DURING WELDING (AISC 360-10 TABLE N5.4-2)	FREQUENCY	REFERENCE STANDARD
1. USE OF QUALIFIED WELDERS	PERIODIC	6.4
2. CONTROL AND HANDLING OF WELDING CONSUMABLES	PERIODIC	6.2
a. PACKAGING	PERIODIC	5.3.2 (SMAW) 5.3.3 (SAW)
b. EXPOSURE CONTROL	PERIODIC	5.18
3. NO WELDING OVER CRACKED TACK WELDS	PERIODIC	5.12
4. ENVIRONMENTAL CONDITIONS	PERIODIC	6.3.3, 6.5.2, 5.5, 5.2.1
5. WELDING PROCEDURE SPECIFICATIONS (WPS) FOLLOWED	PERIODIC	6.5.2, 6.5.3, 5.24, 5.30.1
6. WELDING TECHNIQUES	PERIODIC	6.5.2, 6.5.3, 5.24, 5.30.1

INSPECTION TASKS AFTER WELDING (AISC 360-10 TABLE N5.4-3)	FREQUENCY	REFERENCE STANDARD
1. WELDS CLEAN AND LOCATION OF WELDS	PERIODIC	5.30.1
2. WELDS MEET WELDING ACCEPTANCE CRITERIA	CONTINUOUS	6.5.1
3. CRACKS	CONTINUOUS	6.5.3, TABLE 6.1
4. REPAIR ACTIVITIES	CONTINUOUS	5.29
5. REPAIR ACTIVITIES	CONTINUOUS	6.5.3, 5.29
6. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	CONTINUOUS	6.5.4, 6.5.5

INSPECTION TASKS AFTER BOLTING (AISC 360-10 TABLE N5.6-3)	FREQUENCY	REFERENCE STANDARD
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	CONTINUOUS	
OTHER INSPECTION TASKS (AISC 360-10 SECTION N5.7)		
1. VERIFY COMPLIANCE OF FABRICATED STEEL WITH THE DETAILS SHOWN ON THE APPROVED SHOP DRAWINGS.	PERIODIC	
2. VERIFY COMPLIANCE OF THE ERECTED STEEL FRAME WITH THE DETAILS SHOWN ON THE APPROVED ERECTION DRAWINGS, INCLUDING BRACES, STIFFENERS, MEMBER LOCATIONS AND JOINT DETAILS.	PERIODIC	
3. ANCHOR RODS AND OTHER EMBEDMENTS SUPPORT STRUCTURAL STEEL	PERIODIC	
a. VERIFY THE DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM.	PERIODIC	
b. VERIFY THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE.	PERIODIC	

STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (IBC 12 TABLE 1705.2.2)	FREQUENCY	REFERENCE STANDARD
1. MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:		
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	PERIODIC	
b. MANUFACTURER'S CERTIFIED TEST REPORTS.	PERIODIC	



ISSUE RECORD	
DATE	REV. DESCRIPTION
03/29/2018	PERMIT SUBMISSION SET

PROFESSIONAL SEAL	

PROFESSIONAL IN CHARGE	
K NOLAN	
PROJECT MANAGER	
M YOUNG	
QUALITY CONTROL	
B McGLADE	
DRAWN BY	
D MAHONEY	

PROJECT NAME	
MURPHY OIL CONVENIENCE STORE 508 SC - 72 GREENWOOD, SC 29646	

PROJECT NUMBER	
20170844.0	

SHEET TITLE	
STRUCTURAL GENERAL NOTES	

SHEET NUMBER	
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