



STRUCTURAL STEEL NOTES

1. COMPLY WITH AISC'S "SPECIFICATION FOR STRUCTURAL STE BUILDINGS--ALLOWABLE STRESS DESIGN AND PLASTIC DES RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING A 325 OR A 490 BOLTS," AND AWS D1.1 "STRUCTURAL WEL CODE--STEEL."

A. BOLTS USED FOR THE TOP OF COLUMN CONNECTION SHALL BE 5%" DIAMETER ANSI/ASME B18.2.1, SAE J429 ST GRADE 8.

- 2. HOLLOW STEEL SECTIONS: ASTM A500, GRADE B, FY = 46
- 3. PLATES, BARS & OTHER SHAPES: ASTM A36
- 4. ANCHOR BOLTS & NUTS: ASTM F1554, GR. 36, HEADED AND ASTM A36 NUTS. INSURE THAT RODS ARE FREE OF DEBRIS PRIOR TO PLACEMENT. .
- 5. GROUT: ASTM C 1107, NONMETALLIC, SHRINKAGE RESISTAN PREMIXED.
- 6. FABRICATE STRUCTURAL STEEL ACCORDING TO AISC SPECIFICATIONS AND TOLERANCE LIMITS OF AISC'S "CODE STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES' STRUCTURAL STEEL.
- 7. SHOP PRIMER: ONE COAT OF RED OXIDE, MIN. (2) MILS TOUCH-UP ANY DAMAGED SURFACES AFTER ERECTION.
- 8. ERECT STRUCTURAL STEEL ACCORDING TO AISC SPECIFICA AND WITHIN ERECTION TOLERANCES OF AISC'S "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
- 9. SET BASE AND BEARING PLATES ON WEDGES, SHIMS, OR NUTS. TIGHTEN ANCHOR BOLTS, CUT OFF WEDGES OR SHI FLUSH WITH EDGE OF PLATE, AND PACK GROUT SOLIDLY BETWEEN BEARING SURFACES AND PLATES.
- 10. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS CERTIFIED WELDERS. WELD FILLER ALLOY SHALL BE ONE FOLLOWING: 5183, 5356, 5554, OR 5556.
- 11. BREAK ALL SHARP EDGES.
- 12. ALL ALUMINUM SHALL BE 6061 ALLOY.
- 13. THE STRUCTURE IS DESIGNED FOR LOADS IN ACCORDANCE THE 2009 EDITION OF THE INTERNATIONAL BUILDING CODE THE 2005 EDITION OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS PUBLICATION "MINIMUM DESIGN LOADS FOR BUI AND OTHER STRUCTURES", ASCE7-05.

A. ROOF LIVE LOAD:

25 PSF

- B. WIND LOAD:
- (1) BASIC WIND SPEED V = 120 MPH
- (2) WIND IMPORTANCE FACTOR | = 1
- (3) OCCUPANCY CATEGORY 11
- (4) WIND EXPOSURE
- EXPOSURE B (5) INTERNAL PRESSURE COEFFICIENT GCPI = 0.0
- C. FOUNDATIONS ARE DESIGNED FOR A PRESUMPTIVE ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF.

	CAST-IN-PLACE CONCRETE	<u>E</u>					
EEL SIGN," STM A LDING	1. COMPLY WITH ASTM C9 STRUCTURAL CONCRETE CODE REQUIREMENTS F "MANUAL OF STANDARD	COMPLY WITH ASTM C94; ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"; AND CRSI'S "MANUAL OF STANDARD PRACTICE."					
N ITEEL, 6 KSI	 CONCRETE EXPOSED TO FREEZE-THAW CYCLES SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI. CONCRETE THAT WILL NOT BE EXPOSED TO FREEZE-THAW CYCLES SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI. 						
	3. REINFORCING BARS SHALL NOT BE SPLICED.						
RODS,	4. DEFORMED REINFORCING	G BARS: ASTM A615, GRADE 60.					
OIL AND	5. PORTLAND CEMENT: ASTM C150, TYPE 1.						
NT,	6. FLY ASH: ASTM C618, TOTAL CEMENT CONTEN	FLY ASH: ASTM C618, TYPE F (LIMITED TO 15 PERCENT OF TOTAL CEMENT CONTENT).					
OF	7. PROPORTION NORMAL-V	VEIGHT CONCRETE MIXES TO PROVIDE TI	ΗE .	Ď			
FOR	A. COMPRESSIVE STREN BUILDING FOUNDATION	GTH: 3000 PSI AT 28 DAYS FOR S AND FOOTINGS.		NO.			
THICK.	8. DO NOT ADD WATER TO CONCRETE DURING DELIVERY, AT PROJECT SITE, OR DURING PLACEMENT, UNLESS APPROVED BY ENGINEER.						E -
TIONS							R
99	 PROTECT CONCRETE FROM PHYSICAL DAMAGE OR REDUCED STRENGTH DUE TO WEATHER EXTREMES DURING MIXING, PLACING, AND CURING. REPAIR SURFACE DEFECTS AS REQ'D. 				Sd		JCTI
SETTING IMS	10. STRUCTURAL FILL SHA SUSCEPTIBLE SAND ANE REQUIREMENTS GIVEN E	LL BE CLEAN, NON—FROST O GRAVEL MEETING THE GRADATION BELOW:			sphens I	TTA	Y STRI
S BY	STRUCTURAL FILL			nc.	Ste	1, 1)P
OF THE	SIEVE SIZE	PERCENT FINER BY WEIGHT		Ţ.	50		Z
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