GENERAL NOTES

- REFERENCE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN. REFERENCE MECHANICAL, ELECTRICAL, AND ARCHITECTURAL PLANS FOR SIZES AND LOCATIONS OF WALL AND SLAB OPENINGS, DUCTS, PIPING, CURBS, AND EQUIPMENT PADS. IN THE EVENT OF A CONFLICT BETWEEN THE DRAWINGS, SPECIFICATIONS, OR NOTES ON THE DRAWINGS, THE ENGINEER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION.
- 2. EXISTING DIMENSIONS AND CONDITIONS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL EXISTING CONSTRUCTION AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION OR FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF DEVIATIONS OR CHANGES ARE REQUIRED TO THE CONTRACT DOCUMENTS OR APPROVED SHOP DRAWINGS DUE TO INTERFERENCES, FABRICATION ERRORS, OR OTHER CAUSES.
- 4. THE STRUCTURE IS SELF-SUPPORTING AND STABLE AFTER THE ENTIRE BUILDING IS COMPLETELY CONSTRUCTED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ERECTION PROCEDURES AND SEQUENCING DURING CONSTRUCTION AND ERECTION TO PROVIDE AND ENSURE LOCAL AND OVERALL STABILITY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION AND ERECTION. THE CONTRACTOR SHALL RETAIN A LICENSED STRUCTURAL ENGINEER TO DESIGN TEMPORARY BRACING/SHORING AND DETERMINE WHERE THE TEMPORARY BRACING/SHORING IS NEEDED.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION PROCEDURES, SEQUENCING AND FOR COMPLYING WITH ALL APPLICABLE SAFETY REGULATIONS DURING THE WORK.
- 6. ONE ELECTRONIC COPY OR TWO SETS OF HARD COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER. ONE HARD COPY WILL BE RETURNED TO THE CONTRACTOR AND ONE HARD COPY WILL BE RETAINED BY THE ENGINEER.
- REFERENCE THE PROJECT SPECIFICATIONS FOR MATERIAL, WORKMANSHIP AND ADDITIONAL INFORMATION NOT COVERED IN THESE NOTES (WHERE APPLICABLE)

DESIGN CRITERIA:

- 1. BUILDING CODES: INTERNATIONAL BUILDING CODE (IC), 2009 EDITION ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES MAINE UNIFORM BUILDING AND ENERGY CODE
- 2. LIVE LOADS: FIRST FLOOR LIVING AREAS = 40 PSF SECOND FLOOR SLEEPING AREAS = 30 PSF
- 3. SNOW LOADS: GROUND SNOW LOAD (Pg) = 60 PSFSNOW EXPOSURE FACTOR (Ce) = 1.0SNOW LOAD IMPORTANCE FACTOR (Is) = 1.0THERMAL FACTOR (Ct) = 1.1FLAT ROOF SNOW LOAD (Pf) = 46.2 PSF + DRIFT

WIND LOADS: BASIC WIND SPEED = 100 MPHIMPORTANCE FACTOR (Iw) = 1.0WIND EXPOSURE B MAIN WINDFORCE-RESISTING SYSTEM (INCLUDES WINDWARD + LEEWARD) = 18 PSF COMPONENTS & CLADDING - PER ASCE 7-05

FOUNDATION NOTES:

- FOUNDATIONS HAVE BEEN DESIGNED USING A PRESUMED ALLOWABLE BEARING PRESSURE PER TABLE 1806.2 OF THE INTERNATIONAL BUILDING CODE BASED ON TYPICAL SOILS FOUND IN THIS AREA. IF CLAY, MUD, ORGANIC SILT, PEAT OR UNPREPARED FILL IS FOUND DURING CONSTRUCTION, NOTIFY ENGINEER IMMEDIATELY, AS THE ALLOWABLE LOADS USED IN DESIGN WILL NEED TO BE VERIFIED BY A GEOTECHNICAL ENGINEER. CASCO BAY ENGINEERING RECOMMENDS PROCURING A GEOTECHNICAL ENGINEER TO VERIFY EXISTING SOIL CONDITIONS.
- 2. ALLOWABLE SOIL BEARING CAPACITY USED IN DESIGN = 2,000 PSF
- 3. MINIMUM FROST DEPTH COVER = 4'-6'' FOR EXTERIOR FOOTINGS BELOW FINAL EXTERIOR GRADE.
- 4. EXCAVATION, BACKFILL, COMPACTION, GRADATION REQUIREMENTS, FOUNDATION DRAINAGE AND PERMANENT DEWATERING REQUIREMENTS SHALL BE PROVIDED BY A GEOTECHNICAL ENGINEER.
- CONCRETE SLABS ON GRADE SHALL BE CONSTRUCTED ON A MINIMUM 12" THICK LAYER OF PROPERLY COMPACTED STRUCTURAL FILL, UNLESS OTHERWISE DIRECTED BY A GEOTECHNICAL ENGINEER.
- 6. FOUNDATIONS SHALL BEAR ON UNDISTURBED NATIVE SOIL, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL AND STRUCTURAL ENGINEER IF ANY UNSUITABLE SOILS ARE ENCOUNTERED PRIOR TO PLACING FOUNDATIONS.
- FOUNDATION WALLS AND SLAB-ON-GRADES SHALL REACH THEIR FULL 28 DAY COMPRESSIVE STRENGTH PRIOR TO BACKFILLING. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING/BRACING FOR WALLS WHEN BACKFILL IS PLACED PRIOR TO CONCRETE ACHIEVING ITS FULL 28 DAY STRENGTH. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING/BRACING FOR WALLS AND OTHER STRUCTURAL ELEMENTS PRIOR TO INSTALLATION OF PERMANENT BRACING/FLOOR/STRUCTURE.
- PROTECT FOUNDATIONS FROM FROST AND KEEP BOTTOM OF TRENCH DRY DURING CONSTRUCTION. IF GROUNDWATER IS ENCOUNTERED NEAR OR ABOVE THE BASE OF THE FOOTINGS, EXCAVATIONS SHALL BE DEWATERED DURING CONSTRUCTION. SURFACE WATER SHALL BE DIVERTED AWAY FROM EXCAVATIONS.
- 9. DO NOT UNDERMINE EXISTING FOUNDATIONS OF ADJACENT STRUCTURES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHORING, BRACING AND UNDERPINNING OF EXISTING STRUCTURES DURING EXCAVATION, BACKFILLING, AND CONSTRUCTION. CONTRACTOR SHALL SLOPE EXCAVATIONS TO ACHIEVE SOIL STABILITY.

CONCRETE NOTES:

- 2. REQUIRED CONCRETE PARAMETERS ARE AS FOLLOWS:

LOCATION	MAX W/C RATIO	f'c	AIR-ENTRAINMENT		
INT. WALLS/ELEV. SLABS	.52	3,000 PSI	2% ± 1½%		
FOUNDATIONS, FOOTINGS, & FOUNDATION WALLS	.45	4,500 PSI	6% ± 1½%		
INT. SLAB-ON-GRADE	.45	4,500 PSI	2% ± 1½%		
EXT. SLAB-ON-GRADE	.45	4,500 PSI	6% ± 1½%		

WHERE: W/C = WATER TO CEMENT RATIO AND f'c = COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS

USE PORTLAND CEMENT TYPE II. IN CONFORMANCE WITH ASTM 150 AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C 260 ADMIXTURES SHALL CONFORM TO ASTM C 494 FLY ASH USED AS ADMIXTURES SHALL CONFORM TO ASTM C 618

- 3. MAXIMUM AGGREGATE SIZE SHALL BE $\frac{3}{4}$ ", IN CONFORMANCE WITH ASTM C33.

- 8. ALL ROOF SHEATHING (5/8") AND WALL SHEATHING (1/2") SHALL BE APA PERFORMANCE-RATED. ATTACH TO CONTRACTOR SHALL NOT PLACE CONCRETE ON FROZEN GROUND OR IN WATER. ADEQUATE EQUIPMENT SHALL BE SUPPORTED PANEL EDGES WITH 8d NAILS AT 6" o.c. AND AT INTERMEDIATE SUPPORTS WITH 8d NAILS AT 12" PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING NEAR-FREEZING OR FREEZING o.c. U.N.O. SEE DRAWINGS FOR MORE STRINGENT NAILING REQUIREMENTS AT WOOD SHEAR WALLS. WEATHER. REFERENCE ACI 306, AS NOTED ABOVE, FOR RECOMMENDATIONS FOR COLD WEATHER CONCRETING.

- 11. MINIMUM CONCRETE COVER FOR REINF A. CONCRETE CAST AGAINST AND PE B. FORMED CONCRETE IN CONTACT V C. CONCRETE NOT EXPOSED TO EAR
- 12. WELDING OF REINFORCEMENT IS NOT PERMITTED.
- STRENGTH OF 7,000 PSI AT 28 DAYS.
- DETAILS ON FOUNDATION DETAILS SHEET.
- CONCRETE IS STRICTLY PROHIBITED.

		REBA
E	BAR	SIZE
3000	PSI	CONCRETE
4500	PSI	CONCRETE

STRUCTURAL STEEL NOTES:

- 2. STRUCTURAL STEEL MEMBERS SHALL BE IN CONFORMANCE WITH THE FOLLOWING:
- WIDE FLANGE SHAPES AND TEES ANGLES, PLATES, CHANNELS SQUARE/RECTANGULAR HSS ROUND HSS Steel Pipe
- FABRICATION.
- WASHERS OR TENSION CONTROL BOLTS. USE A490 BOLTS WHERE INDICATED ON DRAWINGS.
- PROJECT IS LOCATED PRIOR TO COMMENCING FABRICATION.
- STRENGTH OF 70 KSI.
- GROUTED PRIOR TO COLUMN ERECTION.
- U.N.O.
- 9. SEE DRAWINGS AND CONCRETE NOTES FOR ANCHOR BOLT INFORMATION.

1. ALL WORK SHALL CONFORM TO IC 2009 REFERENCED EDITIONS OF "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301).

4. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE IS NOT PERMITTED.

5. MAXIMUM SLUMP AFTER THE ADDITION OF A WATER-REDUCING ADMIXTURE IS 6 INCHES.

7. VERTICAL CONSTRUCTION JOINTS IN WALLS SHALL NOT EXCEED A SPACING OF 40 FEET, U.N.O.

ANCHOR BOLTS SHALL BE HEADED RODS AND CONFORM TO ASTM F1554, GRADE 36 KSI WELDABLE STEEL, U.N.O. ON DRAWINGS. PROVIDE GALVANIZED ANCHOR BOLTS WHERE IN CONTACT WITH PRESSURE TREATED LUMBER.

9. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED BARS.

10. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185 AND BE PROVIDED IN FLAT SHEETS. PROVIDE ADEQUATE SUPPORT FOR WWF TO ENSURE PROPER LOCATION WITHIN SLAB DURING CONCRETE PLACEMENT.

FORCEMENT SHALL BE AS FOLLOWS:	
ERMANENTLY EXPOSED TO EARTH 3 IN	ICHES
WITH EARTH OR EXPOSED TO WEATHER 2 IN	ICHES
RTH OR WEATHER IN SLABS & WALLS 11/2 I	NCHE

13. PROVIDE NON-SHRINK GROUT BENEATH LEVELING PLATES & BEARING PLATES w/ MINIMUM COMPRESSIVE

14. PROVIDE CONTINUOUS REINFORCEMENT AT ALL CORNERS AND INTERSECTIONS, SEE TYPICAL FOUNDATION WALL

15. REINFORCING BARS AND ALL EMBEDDED ITEMS, INCLUDING ANCHOR BOLTS, MUST BE ACCURATELY PLACED AND ADEQUATELY SECURED BEFORE CONCRETE IS PLACED. "WET SETTING" OF COLUMN ANCHOR BOLTS INTO

16. UNLESS NOTED ON DRAWINGS, FOLLOW ACI STANDARDS FOR LAP SPLICE LENGTHS OF REINFORCING BARS.

R LAP SPLICE TABLE							
	# 3	#4	# 5	# 6	# 7	# 8	# 9
	18"	24"	30"	36"	48"	56"	64"
	16"	20"	24"	30"	40"	48"	54"

WOOD NOTES:

- 1. ALL TIMBER FRAMING SHALL BE IN ACCORDANCE WITH IC 2009 REFERENCED EDITIONS OF THE AITC TIMBER CONSTRUCTION MANUAL AND AF&PA NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS).
- 2. ALL FRAMING SHALL BE SPRUCE-PINE-FIR, No.2 OR BETTER U.N.O. AND HAVE A MAXIMUM MOISTURE CONTENT OF 19%.
- 3. ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED (PT) SOUTHERN YELLOW PINE.
- 4. WHERE "LVL" IS NOTED ON DRAWINGS, PROVIDE LAMINATED VENEER LUMBER, WHICH HAS THE FOLLOWING MINIMUM ALLOWABLE STRESSES:
 - Fb = 2600 PSIFc = 2510 PSI (PARALLEL TO GRAIN)Fc = 750 PSI (PERPENDICULAR TO GRAIN)Fv = 285 PSI
 - E = 2,000,000 PSI Ft = 1555 PSI
- 5. WHERE "PSL" IS NOTED ON DRAWINGS, PROVIDE PARALLAM STRAND LUMBER, WHICH HAS THE FOLLOWING MINIMUM ALLOWABLE STRESSES:

Fb = 2900 PSI	Fc = 2900 PSI (PARALLEL TO GRAIN)
Fv = 290 PSI	Fc = 750 PSI (PERPENDICULAR TO GRAIN)
Ft = 2025 PSI	E = 2,000,000 PSI

- 6. ALL ENGINEERED LUMBER THAT IS EXPOSED TO WEATHER SHALL BE WOLMANIZED.
- 7. ALL FLOOR SHEATHING SHALL BE 3/4" TONGUE AND GROOVE, GLUED AND NAILED TO FLOOR FRAMING WITH 8d RINK SHANK NAILS AT 6" O.C. AT SUPPORTED PANEL EDGES, 12" O.C. AT INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE ON DRAWINGS.
- 9. SHEATHING SHALL BE ORIENTED WITH LONG DIMENSION PERPENDICULAR TO THE SUPPORTS AND BE CONTINUOUS OVER TWO OR MORE SUPPORTS. STAGGER ALL JOINTS & PROVIDE ADEQUATE JOINT SPACING (1/8" TYP) AS RECOMMENDED BY MANUFACTURER.
- 10. PROVIDE FULL DEPTH BLOCKING AT ENDS AND INTERIOR SUPPORTS OF ALL JOISTS AND RAFTERS WHERE JOISTS AND RAFTERS FRAME OVER SUPPORTS. PROVIDE 1x3 DIAGONAL BRIDGING OR FULL DEPTH SOLID BLOCKING FOR EACH 8'-0" OF SPAN FOR ALL JOISTS AND RAFTERS.
- 11. WHERE BEAMS ARE LABELED ON PLAN, DO NOT SPLICE BEAM NOR ANY PLY OF BEAM BETWEEN SUPPORTS.
- 12. ALL CONNECTION HARDWARE SHALL BE BY SIMPSON STONG-TIE (OR APPROVED EQUIVALENT) AND SHALL BE HOP-DIPPED GALVANIZED. HARDWARE IN CONTACT WITH PRESSURE TREATED (PT) LUMBER SHALL BE GALVANIZED G185 (ZMAX). REFER TO MANUFACTURERS LITERATURE FOR PROPER INSTALLATION GUIDELINES.
- 13. FASTENERS USED IN CONTACT WITH PRESSURE TREATED (PT) LUMBER SHALL BE HOT-DIPPED GALVANIZED, STAINLESS STEEL, OR OTHER FINISH APPROVED BY ENGINEER.
- 14. ALIGN COLUMNS SUCH THAT COLUMNS BEAR CONTINUOUSLY TO FOUNDATION SUPPORT. INSTALL ADDITIONAL SOLID BLOCKING WITHIN FLOOR PACKAGE TO PROVIDE CONTINUITY OF LOAD PATH.
- 15. PROVIDE HORIZONTAL BLOCKING FOR ALL LOAD BEARING WALLS AT 4'-0" O.C. VERTICAL, MAXIMUM.
- 16. SUBMIT SHOP DRAWINGS FOR ALL PREFABRICATED WOOD JOISTS AND WALL PANELS TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

1. STRUCTURAL STEEL WORK SHALL CONFORM TO IC 2009 REFERENCED EDITIONS OF AISC "SPECIFICATION FOR THE DESIGN FABRICATIONS, AND ERECTION OF STRUCTURAL STEEL" AND THE "CODE OF STANDARD PRACTICE"

ASTM A992
ASTM A36, Fy=36 KSI (U.N.O.)
ASTM A500, GRADE B, Fy=46 KSI
ASTM A500, GRADE B, Fy=42 KSI
ASTM A53, TYPE E OR S, GRADE B, Fy=35 KSI

3. SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO COMMENCING

FIELD CONNECTIONS SHALL UTILIZE MINIMUM 3/4" DIAMETER A325 HIGH STRENGTH BOLTS, U.N.O. BOLTED CONNECTIONS SHALL BE SLIP CRITICAL AT ALL MOMENT FRAMES, BRACED FRAMES, AND AT ADDITIONAL LOCATIONS INDICATED "SC" IN THE DRAWINGS. SLIP CRITICAL CONNECTIONS SHALL UTILIZE LOAD INDICATOR

5. CONTRACTOR IS RESPONSIBLE FOR DESIGN OF CONNECTIONS NOT ALREADY DETAILED ON STRUCTURAL DRAWINGS. CONTRACTOR SHALL SUBMIT DESIGN STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE WHERE

6. WELDING SHALL CONFORM TO AWS D1.1. USE LOW-HYDROGEN SMAW ELECTRODES WITH MINIMUM TENSILE

PROVIDE X" LEVELING PLATES UNDER ALL COLUMN BASE PLATES, U.N.O. LEVELING PLATES SHALL BE SET AND

8. ALL STRUCTURAL STEEL NOT EXPOSED TO WEATHER SHALL RECEIVE ONE COAT OF STANDARD SHOP PRIMER,

MASONRY NOTES:

1. ALL MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO IC 2009 REFERENCED EDITIONS OF THE BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES (ACI 530 AND ACI 530.1) 2. CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM C90 GRADE N, TYPE 1 STANDARD WEIGHT WITH MINIMUM PRISM STRENGTH (f'm) = 1,500 PSI

CMU SHALL BE STANDARD UNITS WITH NOMINAL FACE DIMENSIONS (LENGTH = 16 INCHES, HEIGHT = 8 INCHES, WIDTH AS INDICATED)

4. MORTAR SHALL CONFORM TO ASTM C270, TYPE M OR S. PLACE MASONRY WHILE MORTAR IS SOFT AND PLASTIC. TYPE N MORTAR MAY BE USED FOR ABOVE GRADE MASONRY VENEER OR INTERIOR NON-LOAD BEARING APPLICATIONS.

5. GROUT SHALL CONFORM WITH ASTM C476 WITH MINIMUM COMPRESSIVE STRENGTH = 3,000 PSI

VERTICAL REINFORCEMENT, BOND BEAM REINFORCEMENT AND REINFORCEMENT IN LINTELS SHALL CONFORM TO ASTM A615, GRADE 60 DEFORMED BARS.

7. STANDARD LAP LENGTH FOR GRADE 60 MASONRY REINFORCEMENT SHALL BE 48 BAR DIAMETERS OR AS SHOWN ON DRAWINGS, WHICHEVER IS GREATER. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCEMENT.

8. HORIZONTAL REINFORCEMENT SHALL BE LADDER TYPE, STANDARD CLASS, GALVANIZED WITH 9 GAGE SIDE RODS AND 9 GAGE CROSS TIES. BEGIN HORIZONTAL REINFORCEMENT AT TOP OF FIRST COURSE AND EVERY OTHER COURSE, U.N.O. LAP HORIZONTAL REINFORCEMENT 6 INCHES, MIN.

9. ALL UNITS SHALL BE LAID IN RUNNING BOND, UNLESS NOTED OTHERWISE. PROVIDE FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACES. EXPOSED JOINTS SHALL BE TOOLED CONCAVE, UNEXPOSED JOINTS SHALL BE STRUCK FLUSH. PROVIDE CORNER BLOCKS AND END BLOCKS TO FINISH ALL 90 DEGREE CORNERS AND OPENINGS.

10. PROVIDE VERTICAL CONTROL JOINTS IN WALLS AT A MAXIMUM SPACING OF 24'-0" AND AT APPROXIMATELY ½ WALL HEIGHT FROM WALL INTERSECTIONS.

11. PROVIDE LINTELS AT WALL PENETRATIONS AS SHOWN ON DRAWINGS. USE LINTEL-TYPE BLOCKS AND PROVIDE MINIMUM 8" OF BEARING AT EACH END OF LINTEL U.N.O.

12. FIELD PENETRATIONS THROUGH CMU WALLS SHALL NOT BE MADE THROUGH BOND BEAMS, LINTELS OR GROUTED CELLS.

13. SECURE ALL CMU WALL SUPPORTED FIXTURES, EQUIPMENT, ETC. TO CMU WALL PER STRUCTURAL DRAWINGS AND MANUFACTURER'S RECOMMENDATIONS. DO NOT USE EXPANSION ANCHORS.

LLH

LLV

MECH

MFR

MIN

MISC

NTS

OPNG

PREFAB

PSF

PSI

RD

SECT

SIM

SOG

SPAC

SS

STD STIFF

STL

STR

T&B

TFMP

T/SHELF

T/SLAB

t/stl

T/WALL

TYP

UNO

w/0

WWF

VER, VERT

TOC, T/CONC

T/FTG, TOF

STRUCT

SPECS

SHEATH

REINF

REQ, REQD

0PP

ABBREVIATION:

AB	ANCHOR BOLT
ABV	ABOVE
ADDL	ADDITIONAL
ARCH	ARCHITECT
&	AND
B/FTG, BOF	Bottom of Footing
BLDG	Building
BM	Beam
BOT	Bottom
BRG	Bearing
BTWN	Between
C CANT CIP CJ CL CLR CMU CNJ COL CONC CONC CONN CONT CONTR CP CY	STRUCTURAL STEEL CHANNEL CANTILEVER CAST-IN-PLACE CONCRETE CONTROL JOINT CENTERLINE CLEAR CONCRETE MASONRY UNIT CONSTRUCTION JOINT COLUMN CONCRETE CONNECTION CONTRACTOR CONTRACTOR COMPLETE PENETRATION WELD CUBIC YARD
DIA	DIAMETER
DIM	DIMENSION
DISCONT	DISCONTINUOUS
DWG	DRAWING
(E), EX, EXIST	EXISTING
EA	EACH
EF	EACH FACE
EL, ELEV	ELEVATION
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
F	FOOTING DESIGNATION
FDN	FOUNDATION
FF	FINISH FLOOR
FLG	FLANGE
FLR	FLOOR
FT	FOOT
FTG	FOOTING
FV	FIELD VERIFY
G	GAGE
GALV	GALVANIZED
HOR, HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SHAPE
HT	HEIGHT
IF	INSIDE FACE
IN	INCH
INFO	INFORMATION
JT	JOINT
k	KIP (1 KIP = 1,000 LBS)
Ksi	KIPS PER SQUARE INCH

DOUBLE ANGLE POUND LINEAR FOOT LONG LEG HORIZONTAL LONG LEG VERTICAL

MAXIMUM MECHANICAL MANUFACTURER MINIMUM MISCELLANEOUS

NEAR FACE NUMBER NEAR SIDE NOT TO SCALE

> ON CENTER OUTSIDE FACE OPENING OPPOSITE

PIER DESIGNATION PLATE PARTIAL PENETRATION WELD PREFABRICATED POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH

REINFORCING STEEL REQUIRED ROOF DRAIN

SLIP CRITICAL SECTION SHEATHING SIMILAR SLAB-ON-GRADE SPACING SPECIFICATIONS STAINLESS STEEL STANDARD STIFFENER STEEL STRAIGHT STRUCTURAL

TOP TOP AND BOTTOM TOP OF CONCRETE TOP OF FOOTING TEMPERATURE TOP OF SHELF TOP OF SLAB TOP OF STEEL TOP OF WALL STRUCTURAL TUBING TYPICAL

UNLESS NOTED OTHERWISE

VERTICAL VERIFY IN FIELD

> STRUCTURAL STEEL WIDE FLANGE WITH WITHOUT WORK POINT WEIGHT WELDED WIRE FABRIC

