INSPECTION TABLES AND NOTES

NOTATION:

CBC 1704.2.

SUBMITTALS:

CONTINUOUS INSPECTION

TEST, SPECIFICATION, ETC.

IN SOME OTHER MANNER

ANSI / AISC 341.

GENERAL REQUIREMENTS AND PREPARATION:

INSPECTORS PERFORM THEIR DUTIES, AS DESCRIBED HEREIN.

VERIFICATION OF EACH ELEMENT, MATERIAL.

DENOTES FREQUENCY OF INSPECTION IS DEFINED

OBSERVE - INSPECTOR SHALL OBSERVE THESE

PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM

DOCUMENT - INSPECTOR SHALL PREPARE REPORTS

PERFORM - THESE INSPECTIONS SHALL BE PERFORMED

INDICATING THAT THE WORK HAS BEEN PERFORMED IN

ACCORDANCE WITH THE CONTRACT DOCUMENTS PER

THIS INSPECTION AND OBSERVATION PROGRAM HAS BEEN DEVELOPED WITH THE UNDERSTANDING

BUILDING OFFICIAL, TO OVERSEE AND COORDINATE THE IMPLEMENTATION OF THE PROGRAM, AND

MONITOR THE SPECIAL INSPECTION ACTIVITIES ON THE JOB SITE TO ASSURE THAT THE SPECIAL

AGENCIES OR FIRMS, APPROVED BY THE BUILDING OFFICIAL, TO PROVIDE INSPECTION DURING

AGENCY AS APPROVED BY THE RDP AND THE BUILDING OFFICIAL TO PERFORM TESTS SPECIFIED IN

THAT THE OWNER SHALL DESIGNATE A RESPONSIBLE INDIVIDUAL OR FIRM, ACCEPTABLE TO THE

REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE OF THE PROJECT AND

2. THE OWNER OR THE RDP SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS, INSPECTION

3. THE OWNER OR ITS DESIGNEE SHALL EMPLOY MATERIALS TESTING LABORATORY / TESTING

CONTRACTOR RESPONSIBILITIES (CBC SECTION 1704.4):

CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

STATEMENT OF SPECIAL INSPECTIONS;

AND THEIR POSITION(S) IN THE ORGANIZATION.

1) CONCRETE MIX DESIGN

2) STRUCTURAL STEEL SHOP DRAWINGS

CONTRACTOR'S STATEMENT OF RESPONSIBILITY: EACH CONTRACTOR RESPONSIBLE FOR THE

THE RDP, AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR

CONSTRUCTION OF A MAIN WIND-OR SEISMIC-FORCE RESISTING SYSTEM, DESIGNATED SEISMIC

A. ACKNOWLEDGEMENT OF AWARENESS OF THE REQUIREMENTS CONTAINED IN THE

B. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE

WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL AND THE

C. PROCEDURE FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION. THE

D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL

A. SUBMIT SHOP DRAWINGS, DESIGN DATA, CERTIFICATIONS, MANUFACTURER'S FIELD

METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS; AND

REPORTS, AND OTHER QUALITY CONTROL SUBMITTALS AS REQUIRED BELOW FOR REVIEW

SYSTEM OR A WIND-OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL

INSPECTION SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL.

CONSTRUCTION ON THE TYPES OF WORK REQUIRING SPECIAL INSPECTION AS DEFINED IN

DENOTES FREQUENCY OF INSPECTION

FUNCTIONS ON A RANDOM, DAILY BASIS

PERIODIC INSPECTION

STEEL CONSTRUCTION		i Sara antigentario			
ANSI / AISC 360 TABLE N5.4-1 INSPECTION TASKS PRIOR TO WELDING					
INSPECTION TASKS PRIOR TO WELDING	QC	QA			
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	Р	Р			
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	Р	P			
MATERIAL IDENTIFICATION (TYPE / GRADE)					
WELDER IDENTIFICATION SYSTEM 1	0	0			
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) - JOINT PREPARATION - DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) - CLEANLINESS (CONDITION OF STEEL SURFACE) - TACKING (TACK WELD QUALITY AND LOCATION) - BACKING TYPE AND FIT (IF APPLICABLE)	0	0			
CONFIGURATION AND FINISH OF ACCESS HOLES	0	0			
FIT-UP OF FILLET WELDS - DIMENSIONS (ALIGNMENT, GAPS @ ROOT) - CLEANLINESS (CONDITION OF STEEL SURFACE) - TACKING (TACK WELD QUALITY AND LOCATION)	0	0			
CHECK WELDING EQUIPMENT	0	-			

1 The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type

ANSI / AISC 360 TABLE N5.4-2 INSPECTION TASKS DURING WELDING				
INSPECTION TASKS DURING WELDING	QC	QA		
USE OF QUALIFIED WELDERS	0	0		
CONTROL AND HANDLING OF WELDING CONSUMABLES - PACKAGING - EXPOSURE CONTROL	0	0		
NO WELDING OVER CRACKED TACKS	0	0		
ENVIRONMENTAL CONDITIONS - WIND SPEED WITHIN LIMITS - PRECIPITATION AND TEMPERATURE	0	0		
WPS FOLLOWED - SETTINGS ON WELDING EQUIPMENT - TRAVEL SPEED - SELECTING WELDING MATERIALS - SHIELDING GAS TYPE / FLOW RATE - PREHEAT APPLIED - INTERPASS TEMPERATURE MAINTAINED (MIN / MAX) - PROPER POSITION (F, V, H, OH)	0	0		
WELDING TECHNIQUES - INTERPASS AND FINAL CLEANING - EACH PASS WITHIN PROFILE LIMITATIONS - EACH PASS MEETS QUALITY REQUIREMENTS	0	0		

ANSI / AISC 360 TABLE N5.4-3 INSPECTION TASKS AFTER WELDING				
INSPECTION TASKS AFTER WELDING	QC	QA		
WELDS CLEANED	O	0		
SIZE, LENGTH, AND LOCATION OF WELDS	Р	Р		
WELDS MEET VISUAL ACCEPTANCE CRITERIA - CRACK PROHIBITION - WELD / BASE-METAL FUSION				
 CRATER CROSS SECTION WELD PROFILES WELD SIZE UNDERCUT POROSITY 	Р	P		
ARC STRIKES	P	P		
k-AREA ²	Р	P		
BACKING REMOVED, AND WELD TABS REMOVED (IF REQUIRED)	P.	Р		
REPAIR ACTIVITIES	Р	Р		
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	Р	P		

	REQUIRED VERIFICATION & INSPECTION OF CONCRETE	FF	REQUEN	ICY
	CONSTRUCTION (CBC TABLE 1705.3)	CONT.	PER.	VE
1.	INSPECT REINFORCEMENT AND VERIFY PLACEMENT.		X	
2,	VERIFY USE OF REQUIRED DESIGN MIX.		X	
3,	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONRETE.	х		
	SPECIAL PROVISIONS FOR SEISMIC RESISTANCE			5456
4.	INSTALLATION OF (CHEMICAL \ EPOXY) ADHESIVE ANCHORS, RODS AND DOWELS	Х		

in ACI 318, or 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.

CONCRETE:

THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE AS FOLLOWS:

f'c = 4000 psi - CONCRETE CURB & BOLLARD FILL

ALL CONCRETE UNLESS NOTED OTHERWISE SHALL BE REGULAR WEIGHT TYPE (150 PCF). AGGREGATES SHALL CONFORM TO ASTM C-33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN .05% (MAXIMUM SIZE).

CEMENT SHALL CONFORM TO ASTM C-150 (TYPE II / V) UNLESS NOTED OTHERWISE ON THE

CONCRETE MIX DESIGN FOR DESIGN COMPRESSIVE STRENGTH GREATER THAN 2500 P.S.I. SHALL BE PREPARED BY AN APPROVED TESTING LABORATORY AND SHALL BE STAMPED AND SIGNED BY A LICENSED ENGINEER, IN THE STATE OF JURISDICTION. MIX DESIGN SHALL THEN BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW. THE USE OF A POLYMER BASED WATER REDUCING ADMIXTURE IS OPTIONAL, BUT IF USED, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.

MIX DESIGN REQUIREMENTS:

DESIGN MIXES TO PROVIDE NORMAL WEIGHT CONCRETE WITH THE FOIL OWING REQUIREMENTS

STRENGTH f'c (28 DAYS)	MAXIMUM ALLOWABLE SHRINKAGE (28 DAYS)	NOTES
4000 psi	.04%	CONCRETE CURB & BOLLARD FILL

FLY ASH SHALL BE A MINIMUM OF 15%, MAXIMUM OF 25%, OF THE TOTAL CEMENTITIOUS MATERIAL OF ALL MIX DESIGNS FOR CONCRETE > 4000 P.S.I.. FLY ASH WITH THESE SAME LIMITS MAY ALSO BE USED IN ANY OTHER MIX DESIGN FOR CONCRETE STRENGTH < 4000 P.S.I.

FLY ASH SHALL CONFORM TO ASTM C-618, CLASS F, WITH MAXIMUM LOSS ON IGNITION (L.O.I.)

MAXIMUM ALLOWABLE WATER-TO-CEMENT (w/c) RATIO SHALL INCLUDE THE TOTAL WEIGHT OF CEMENT AND FLY ASH.

5. CONCRETE SHALL BE CURED AND PROTECTED IN ACCORDANCE WITH ACI 308.1-11.

6. CONCRETE SHALL NOT FREE FALL MORE THAN FIVE FEET. USE TREMIE OR PUMP.

TO THIS REQUIREMENT WILL BE STATED ON THE PLANS OR SPECIFIC DETAILS.

7. LOCATION OF CONSTRUCTION JOINTS AND OTHER TYPES OF JOINTS, OTHER THAN THOSE SPECIFIED OR DETAILED, SHALL BE APPROVED BY THE ENGINEER BEFORE PLACEMENT OF

8. ALL CONCRETE WITH 28 DAY STRENGTH GREATER THAN 2500 PSI SHALL BE INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS AND FREQUENCY OF INSPECTION DEFINED IN CBC TABLE 1705.3 AS PRESENTED ON VERIFICATION AND INSPECTION NOTES AND TABLES. ANY EXCEPTIONS

9. PRIOR TO PLACING CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.

10. SUPERIMPOSED LOADS SHALL NOT BE APPLIED TO ELEVATED STRUCTURAL CONCRETE MEMBERS

PRIOR TO 7 DAYS MINIMUM AFTER CONCRETE PLACEMENT AND UNTIL 28 DAY STRENGTH HAS BEEN REACHED. SHORING SHALL REMAIN IN PLACE UNTIL CONCRETE HAS REACHED DESIGN STRENGTH. RESHORING SHALL REMAIN IN PLACE 28 DAYS MINIMUM. AT NO TIME DURING THE RESHORING PROCESS SHALL THE CONCRETE MEMBER BE UNSUPPORTED.

PROVIDE 3/4" CHAMFER AT EXPOSED EDGES OF CONCRETE BEAMS AND COLUMNS AND VISIBLE EXTERIOR CONSTRUCTION JOINTS, U.N.O.

12. NON-SHRINK GROUT: SHALL CONFORM TO ASTM C-1107. MIN fc = 6500 P.S.I. AT 28 DAYS.

13. ALL STRUCTURAL CONCRETE IS TO BE REINFORCED. UNLESS SHOWN OTHERWISE, SLABS ARE TO HAVE A MINIMUM REINFORCEMENT PERCENTAGE OF 0.20 CONTINUOUS EACH WAY AND WALLS ARE TO HAVE MINIMUM REINFORCEMENT PERCENTAGES OF 0.25 CONTINUOUS IN THE HORIZONTAL DIRECTION AND 0.15 CONTINUOUS IN THE VERTICAL DIRECTION.

14. CONCRETE FLOOR AND SLAB ON GRADE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF ACI 302, "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION". FLATNESS / LEVELNESS SHALL CONFORM TO THE REQUIREMENTS OF ASTM E1155 PER THE FOLLOWING RECOMMENDED

CONCRETE REINFORCING STEEL:

REINFORCING STEEL FOR CONCRETE SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, (DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A 305 AS

GRADE 60: (#4 BARS AND LARGER) GRADE 40: (#3 BARS)

THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS SHALL NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 psi (RETESTS SHALL NOT EXCEED THIS VALUE BY MORE THAN AN ADDITIONAL 3000psi) AND THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO ACTUAL YIELD STRENGTH SHALL NOT BE LESS THAN 1.25.

2. WWF SHALL CONFORM TO ASTM A 82 AND ASTM A 185. LAP 1 1/2 SPACES (9" MIN.)

3. DETAILING. FABRICATION. AND ERECTION OF REINFORCING BARS SHALL CONFORM TO A.C.I. "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES."

4. MIN. COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS:

A. CAST AGAINST EARTH B. CAST AGAINST FORM BELOW GRADE. C. FORMED SLABS (#11 BAR & SMALLER)

D. SLABS ON GRADE (FROM TOP OF SLAB) E. COLUMNS AND BEAMS (MAIN BARS) F. WALLS EXPOSED TO WEATHER (#6 - #18 BARS)

G. NOT EXPOSED TO WEATHER (#11 & SMALLER) BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BEND SHALL BE MADE COLD.

(#5 & SMALLER).

PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.

WHEN WELDING OF REINFORCING BARS IS REQUIRED, IN ADDITION TO THE REQUIREMENTS OF ASTM A-615, A REPORT OF MATERIAL PROPERTIES SHALL BE PROVIDED BY THE REINFORCING MANUFACTURER TO VERIFY THAT MATERIAL PROPERTIES ARE THOSE NECESSARY FOR CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN AWS D1.4, "STRUCTURAL WELDING CODE - REINFORCING STEEL". IN LIEU OF SUPPLYING A SUPPLEMENTAL REPORT, BARS CONFORMING TO ASTM A-706 MAY BE USED. E90XX ELECTRODES SHALL BE USED TO WELD REINFORCING BARS.

WHEN REQUIRED, CONTINUOUS INSPECTION OF CONCRETE SHALL INCLUDE INSPECTION OF REINFORCING STEEL IN ACCORDANCE WITH THE REQUIREMENTS OF CBC TABLE 1705.3 AS PRESENTED ON VERIFICATION AND INSPECTION NOTES AND TABLES. INSPECTION SHALL BE SCHEDULED SO THAT PLACEMENT OF REINFORCING STEEL, CONDUIT, SLEEVES, AND EMBEDDED ITEMS MAY BE CORRECTED PRIOR TO PLACEMENT OF OVERLYING GRIDS OF REINFORCING STEEL.

FOR STANDARD REBAR HOOKS, SEE DETAIL 8 / SD1.1, AND FOR STANDARD REBAR SPLICE, SEE DETAIL 7 / SD1.1

GENERAL:

GENERAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL PARTS OF THE JOB EXCEPT WHERE THEY MAY CONFLICT WITH DETAILS AND NOTES ON OTHER SHEETS. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE ENGINEER.

STRUCTURAL NOTES

WORK SHALL CONFORM TO THE REQUIREMENTS, AS AMENDED TO DATE, OF THE LATEST EDITION OF THE CBC, C.A.C. TITLE 24, AND ALL OTHER LOCAL, STATE AND FEDERAL REGULATIONS.

OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO

PROCEEDING WITH ANY WORK INVOLVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND

SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK. 5. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE

CONDITIONS CONFLICT WITH THE DRAWINGS THEY SHALL BE REPORTED TO THE ENGINEER SO $^\circ$

THAT THE PROPER REVISION MAY BE MADE. MODIFICATIONS OF DETAILS OF CONSTRUCTION SHALL

BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY, WHERE ACTUAL

NOT BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS. ECHNIQUES. SEQUENCES AND PROCEDURES, INCLUDING, BUT NOT LIMITED TO BRACING, TEMPORARY SUPPORTS, AND SHORING, OBSERVATION VISITS TO THE SITE BY FIELD REPRESENTATIVES OF THE ARCH./ENG. SHALL NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES. ANY SUPPORT SERVICES PERFORMED BY THE ARCH,/ENG. DURING THE CONSTRUCTION SHALL BE DISTINGUISHED FROM CONSTRUCTION AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES

PERFORMED BY THE ARCH /ENG.. WHETHER OF MATERIAL OR WORK, ARE FOR THE PURPOSE OF

BUT DO NOT GUARANTEE CONTRACTORS PERFORMANCE AND SHALL NOT BE CONSTRUED AS

ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DOCUMENTS,

SUPERVISION OF CONSTRUCTION. ASTM DESIGNATIONS AND ALL STANDARDS REFER TO THE LATEST AMENDMENTS.

CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND/OR CONSTRUCTION. SUBMIT ELECTRONIC MEDIA TO ENGINEER AS

SAFETY: CONFORM TO APPLICABLE CAL / OSHA CONSTRUCTION SAFETY REGULATIONS FOR ALL WORK PERFORMED DURING CONSTRUCTION. JOB SITE SAFETY IS STRICTLY THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ARCHITECT/ENGINEER OR OWNER.

HAZARDOUS MATERIALS: UNLESS OTHERWISE PROVIDED, THE ENGINEER AND HIS CONSULTANTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, PRESENCE, HANDLING, REMOVAL OR DISPOSAL OF OR EXPOSURE OF PERSONS TO HAZARDOUS MATERIALS IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO ASBESTOS, ASBESTOS PRODUCTS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCES.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.

STRUCTURAL AND MISCELLANEOUS STEEL:

ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC STEEL CONSTRUCTION MANUAL, LATEST EDITION.

STRUCTURAL SHAPES AND PLATES SHALL CONFORM TO THE FOLLOWING U.N.O.: W AND WT SHAPES C/MC/M/S/HPSHAPES ASTM A 36

ANGLES AND PLATES ASTM A 36 HEADED STUDS

ASTM A 108 ERECTION AND SHOP DETAIL DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION AND ERECTION. SUBMIT TWO SETS FOR REVIEW.

MACHINE BOLTS CONFORMING TO ASTM A 307 SHALL BE USED ONLY WHERE NOTED; NUTS SHALL CONFORM TO ASTM A 563.

ALL STRUCTURAL BOLTS SHALL BE 7/8" Ø CONFORMING TO ASTM A 325-N, PRE-TENSIONING NOT

HIGH STRENGTH BOLTS NOTED AS "SC" SHALL BE INSTALLED AND PRE-TENSIONED PER THE AISC REQUIREMENTS FOR SLIP CRITICAL CONNECTIONS.

HIGH STRENGTH BOLTS NOTED AS "PT" HAVE BEEN DESIGNED WITH THE ALLOWABLE VALUES FOR TYPE "N" BEARING CONNECTIONS AND SHALL BE PRETENSIONED PER THE AISC REQUIREMENTS FOR

HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR A 490 BOLTS, LATEST EDITION.

ALL WELDING SHALL COMPLY WITH AWS D1.1 AND SHALL BE DONE BY WELDERS CERTIFIED FOR THE

TYPE OF WELDING TO BE PERFORMED. WELDING OF REBAR SHALL CONFORM TO AWS D1.4. ALL WELDS USED ON STRUCTURAL MEMBERS AND CONNECTIONS SHALL BE DONE WITH E70XX ELECTRODES OR E7XT-X WIRE THAT CAN PRODUCE WELDS WITH A MINIMUM CHARPY V-NOTCH

TOUGHNESS OF 20 FT-LBS @ 0° F, AS DETERMINED BY THE APPROPRIATE AWS CLASSIFICATION TEST METHOD OR MANUFACTURER CERTIFICATION. WHERE WELDS SHOWN ON THE DESIGN DRAWINGS ARE DESIGNATED AS "DEMAND CRITICAL". THE E70XX ELECTRODES OR E7XT-X WIRE MUST PROVIDE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS @ -20° F AS DETERMINED BY THE APPROPRIATE AWS CLASSIFICATION TEST METHOD OR

MANUFACTURER CERTIFICATION AND 40 FT-LBS @ 70° F AS DETERMINED BY AISC SEISMIC DESIGN MANUAL, APPENDIX X OR OTHER APPROVED METHOD. ALL WELDING SHALL BE DONE EITHER IN THE SHOP OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION PER CBC SECTION 1704.2.5.1 OR WITH SPECIAL INSPECTION PER ANSI/AISC 360-16 CHAPTER N, AND ANSI/AISC 341-16 CHAPTER J AS

PRESENTED ON VERIFICATION AND INSPECTION NOTES AND TABLES. ALL SPECIAL INSPECTIONS FOR STRUCTURAL AND MISCELLANEOUS STEEL AND THE FREQUENCY OF

INSPECTION SHALL BE AS REQUIRED BY ANSI/AISC 360-16 CHAPTER N. AND ANSI/AISC 341-16 CHAPTER J AS PRESENTED ON VERIFICATION AND INSPECTION NOTES AND TABLES.

ALL STRUCTURAL STEEL IN THE SEISMIC LOAD RESISTING SYSTEM SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS,

EXCEPT WHERE NOTED, ALL CARBON STEEL MEMBERS SHALL BE PAINTED WITH PRIME COAT PER THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AND THE STEEL CONSTRUCTION MANUAL. THE EXCEPTION FOR STEELWORK CONCEALED BY INTERIOR BUILDING FINISH SHALL NOT BE APPLICABLE.

ADHESIVE ANCHORS FOR CONCRETE:

LATEST EDITION. SEE ADDITIONAL NOTES WHERE APPLICABLE.

ANCHOR EMBEDMENT AND NOMINAL DIAMETER OF RODS SHALL BE AS SHOWN ON DRAWINGS. ADHESIVE STUD ASSEMBLIES SHALL CONSIST OF A THREADED RODS, FLAT WASHER, AND HEX NUT. FLAT WASHER MAY BE OMITTED WHERE PLATE WASHERS ARE CALLED FOR.

HILTI ADHESIVE SYSTEMS: A. FAST CURE: HIT HY-200 PER ICC ESR-3187 SLOW CURE: HIT RE-500 V3 PER ICC ESR-3814

ROD MATERIAL SHALL BE THREADED ROD CONFORMING TO ASTM F 1554, GRADE 36, U.N.O. NUTS SHALL CONFORM TO ASTM A 563, AMERICAN STANDARD HEAVY HEX.

6. FLAT WASHERS SHALL CONFORM TO ASTM F 435.

GALVANIZED RODS, WHERE CALLED FOR, SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A 123. NUTS AND WASHERS SHALL BE SUPPLIED WITH A HOT DIP GALVANIZED FINISH. BOLTS AND NUTS SHALL HAVE THEIR THREADS CHASED AFTER GALVANIZING.

ROD PROJECTION FROM FACE OF CONCRETE SHALL BE DETERMINED BY THE CONTRACTOR. CONSIDERING THE THICKNESS OF THE GROUT, THICKNESS OF THE MATERIAL THROUGH WHICH THE ROD MUST PROJECT, WASHER THICKNESS, NUT THICKNESS, PLUS A MINIMUM OF 1/4" PROJECTION BEYOND THE FACE OF THE NUT.

DRILL TYPE, HOLE DIAMETER AND PREPARATION SHALL BE AS REQUIRED BY THE ADHESIVE SYSTEM

10. SPECIAL INSPECTION, IN ACCORDANCE WITH THE REQUIREMENTS OF CBC TABLE 1705.3 AS PRESENTED ON VERIFICATION AND INSPECTION NOTES AND TABLES AND CBC SECTION 1705.1.1. IS REQUIRED DURING INSTALLATION OF ALL ANCHOR RODS.

1. OTHER ADHESIVE ANCHORING SYSTEMS SHALL ONLY BE USED WITH THE APPROVAL OF THE 2. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION TO

SUPPORT SUSTAINED TENSION LOADS SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI/CRSI, PER ACI 318-14 17.8.2.2. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATIONS TO

RESIST SUSTAINED TENSION LOADS SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION BY AN INSPECTOR SPECIALLY APPROVED FOR THAT PURPOSE BY THE BUILDING OFFICIAL, PER

. ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS, PER ACI 318-14 17.1.2.

POWDER ACTUATED POUNDS PER CU. FT. PRF-FNGINFERED POUNDS PER SQ. F POUNDS PER SQ. IN

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Project Revision A 50% Client Review 3 90% Client Review 02.14.20 C\ 100% Client Review 04.29.20 D Bldg. Dept. Submittal

05.01.20

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PROJECT SCOPE SUMMARY:

CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A 12' HIGH X APPROXIMATELY 90' LONG STEEL PUSHWALL THAT SHALL BE CONSTRUCTED WITH TEN (10) W10 POSTS SUPPORTED ON STEEL BASE PLATES, WHICH WILL BE THRU-BOLTED TO THE EXISTING ELEVATED CAST-IN-PLACE CONCRETE SLAB AND BEAMS. THE PUSHWALL WILL BE COMPLETED WITH 1/2" PLATE SUPPORTED ON THREE (3) W10 GIRTS LOCATED AT THE TOP, MID-HEIGHT AND NEAR THE BOTTOM OF EACH BAY BETWEEN POSTS. ALL SEAMS BETWEEN THE PUSHWALL PLATES SHALL BE CONTINUOUSLY SEAL WELDED TO CREATE A CONTINUOUS SURFACE. REFERENCE THE CONNECTION DETAILS PRESENTED ON SD1.1.

STRUCTURAL ABBREVIATIONS

FLOOR DRAIN

FOUNDATION

FLOOR JOIST

FLOOR(ING)

FLANGE(S)

FACE OF CONCRETE

FACE OF MASONRY

FULL PENETRATION

FACE OF STUD

FACE OF WALL

FAR SIDE

FOOTING

FEET, FOOT

FIELD WELD

GALVANIZE(D)

GLU-LAM BEAM

GRADE

GYPBOARD

HORIZONTAL

HIGH STRENGTH

INTERNATIONAL CODE

NSIDE DIAMETER

INSIDE FACE

INCLUDE(ING)

INFORMATION

INSPECTION

INTERMEDIATE

KIPS (1000 POUNDS)

KNEE BRACE

KIPS PER SQ. IN.

LENGTH (LONG)

LONG LEG BACK TO BACK

LONG LEG HORIZONTAL

LONG LEG VERTICAL

LONGITUDINAL

MAINTENANCE

MACHINE BOLT

MECHANICAL

MANUFACTURER

MISCELLANEOUS

MASONRY OPENING

MATERIAL

MAXIMUM

MEZZANINE

MINIMUM

MOUNTED

METAL

NEGATIVE

NOMINAL

NEAR SIDE

ON CENTER

OVERHANG

OPENING

OPPOSITE ORIENTED STRAND

STRUCTURAL SYMBOLS

PLATE

PER 2019 CBC

FLUID PRESSURE WASTE LOADING = 20 psf/ft

SEISMIC IMPORTANCE FACTOR, I = 1.0

WHEEL LOADER BUCKET IMPACT = 1k/ft (LINE LOAD)

SPECTRAL RESPONSE COEFFICIENT, S_{DS} = 1.590

SPECTRAL RESPONSE COEFFICIENT, $S_{D1} = 0.748$

SEISMIC DEMANDS ON NON STRUCTURAL ELEMENTS

COMPONENT SEISMIC DESIGN FORCE, Fp = 0.636 Wp

COMPONENT RESPONSE MODIFICATION FACTOR, $R_p = 2.5$

CANTILEVERED ELEMENTS INTERIOR NON STRUCTURAL WALLS

MAPPED SPECTRAL RESPONSE ACCELERATION, S_S = 1.988g

MAPPED SPECTRAL RESPONSE ACCELERATION, $S_1 = 0.704g$

TRASH LOAD = 50 psf (UNFORM)

SEISMIC DESIGN CATEGORY: D

SEISMIC = 0.636 W_P (SEE BELOW)

AMPLIFICATION FACTOR, $a_p = 2.5$

RISK CATEGORY: II

SITE CLASS: D

DBL. ANGLE

LIGHT GA. CHANNEL

PENNY (NAIL GRADE)

POUND OR NUMBER

OUTSIDE FACE

OVERHEAD OR

OUTSIDE DIAMETER

NOT TO SCALE

-NOT-IN-CONTRACT-

LIVE LOAD

INTERIOR

JOIST

INTERM

MEZZ

NOM

HIGH POINT

HANDRAII

FLG

FOM

PEMB

PLYWD

PVMT

REINF

SCHED

SPEC

STD

STRUCT

T&B

TRANSV

VOL

REQD

METAL BUILDING

PLYWOOD

PAVEMENT

QUANTITY

RADIUS

BOOF DRAIN

REQUIRED

REVISION -

ROOM

SCHEDULE

SECTION

SPACE(S)

STAGGERED

STANDARD

STIFFENER

THROUGH

TOP OF NAILER

TOP OF BEAM

STRUCTURAL

SYMMETRICAL

TOP AND BOTTOM

THICK, THICKNESS

TOP OF CONCRETE

TOP OF FRAMING

TOP OF MASONRY

TOP OF PARAPET

TOP OF STEEL

TOP OF WALL

TRANSVERSE

TYPICAL

ULTIMATE

VERIFY

WITHOU

VERTICAL

UNLESS NOTED

WIDE, WIDTH, WIDE

WORKING POINT

WATER STOP

FLANGE STEEL BEAM

WELDED WIRE FABRIC

STRUCTURAL CHANNEL

STRUCTURAL LINE

THINNER MATERIAL

LIGHT GA. PURLIN OR

THICKNESS OF

OTHERWISE

STRUCTURAL TUBE

TOP OF LEDGER

STEEL

SHEET(ING)

STORM DRAIN

SHEET METAL

STANDARD PIPE

SPECIFICATION(S)

RIGID FRAME

ROOF JOIST

REQUIREMENT

RESEARCH REPORT

RECTANGULAR

REFER(ENCE)

REINFORCEMENT

PROJECTION

ANCHOR BOLT

ADDITIONAL

STEEL CONST.

AMER. NATIONAL

APPROXIMATE(LY)

ARCHITECTURAL

APPROVE(D)

& MATERIAL

AVERAGE

SOCIETY

BETWEEN

BUILDING

BOTTOM

BEARING

BOTH SIDES

CUBIC FEET

COLUMN

CONCRETE

CONVEYOR CORRECTIONS

CUBIC YARDS

DOUBLER

DETAIL

DEPARTMENT

DOUGLAS FIR

DIAMETER

DIAGONAL

DIMENSION

DIRECTION

DEAD LOAD

DEPTH (DEEP)

DOWNSPOUT

DRAWING(S)

DOWEL

FXISTING

EACH FACE

ELECTRICAL

EXTRA HIGH STRENGTH

EMBEDDED, EMBEDMENT

ELEVATION (HEIGHT)

—ELEVATION-(VIEW)—

EDGE OF SLAB

EXPANSION JOINT

EQUIPMENT

EACH WAY

EXTERIOR

ANGLE

CENTERLINE

DIAMETER

DESIGN LOADS:

PUSHWALLS:

SEISMIC:

PUSHWALLS:

DIAPHRAGM NAILING

CENTER

CONNECTION

CONSTRUCTION

CHECKERED PLATE

CONSTRUCTION OR

CONTRACTION JOINT

CITY OF LOS ANGELES

CONTINUOUS OR CONTINUED 1 JS

CONCRETE MASONRY UNITS

CLEAR (CLEARANCE)

COLLATERAL LOAD

BEAM

BOTH FACES

BLOCK(ING)

BOUNDARY NAIL

APPROX

ALTERNATE

ALUMINUM

AD.JACENT

ASPHALTIC CONCRETE

ABOVE FINISHED FLOOR

STANDARDS INSTITUTE

AMER, SOC. FOR TESTING

AMERICAN WELDING

BELOW FINISH FLOOR

AIR CONDITIONING

THE 2'-10" WIDE SPACE BEHIND AND BETWEEN PUSHWALL POSTS SHALL BE FINISHED BY CONSTRUCTING AN APPROXIMATELY 10" HIGH CAST-IN-PLACE CONCRETE CURB, WHICH WILL COVER THE BASE PLATES TO CREATE A LEVEL HOUSEKEEPING SURFACE.

PRIOR TO ANY DRILLING REQUIRED TO INSTALL NEW THRU-BOLTS AND ADHESIVELY ANCHORED REINFORCEMENT, CONTRACTOR SHALL PERFORM ULTRASONIC TESTING TO DETERMINE THE LAYOUT AND LOCATION OF THE EXISTING CONCRETE SLAB AND DETAILS.

SUBMIT A REPORT TO THE ENGINEER SHOWING THE LAYOUT AND LOCATION OF REINFOHGENEIN I
RELATIVE TO THE NEW PUSHWALL POST BASE. REFERENCE THE CONNECTION DETAILS.

This set of plans and specifications MUST be on job site during construction. It is unlawful to alter or change.

construction. It is unlawful to alter or change same, or to deviate therefrom, without approval from the Building Safety DivisionAS NOTED or to be an approval of the violation of the Violation of the Parmit or to be an approval of the violation of any City Ordinance or State Law This approval does not cover ELECTRICAL, PLUMBING, HEATING o REFRIGERATION work. Separate approval must be obtained. BUILDING SAFETY DIVISION CITY OF CULVER CITY Void, without Authorized Initial/Signature

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