CITY OF LOS ANGELES

TONY M. ROYSTER GENERAL MANAGER AND CITY PURCHASING AGENT CALIFORNIA



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Agenda Item No. 7

June 27, 2024

Matthew W. Szabo, Chair Municipal Facilities Committee 200 North Main Street, Suite 1500 Los Angeles, CA 90012

STATUS UPDATE ON THE SECURITY GATES AT THE LOS ANGELES MALL

The Department of General Services (GSD) is providing this update on the status of securing fencing for the LA Mall.

BACKGROUND

On August 11, 2022 a report on installing fencing to control entry to and from the LA Mall/City Hall East after hours was approved by the Municipal Facilities Committee (MFC). Funding for the initial estimate of \$304,000 was transferred to GSD in the 2nd (\$172,492) and 4th (\$131,510) 2022-23 Construction Project Reports.

Upon receiving MFC approval, GSD conducted additional site walks and reviews of all areas to update the original estimated scope of work for inclusion in the drawing for plan check/permit submission. The original drawing was submitted in December 2022 and denied.

LADBS and LAFD provided additional direction on requirements needed to obtain plan check approvals. This included design drawings showing occupant load analysis for door opening size, 5' landings, exit signage, panic hardware on all doors and all ADA requirements. To meet the design requirements, GSD hired an engineering vendor to design and draft plans that incorporated the additional requirements. This process concluded with LADBS plan check approvals in March 2024 (Attachment A).

CURRENT STATUS

Following plan check approval, GSD did a final site walk with LAPD SECSD to review the approved design and discuss the types and functions of doors, gates and lock systems. Some items can be incorporated into the installations, but others such as electronic gate controls and other potential improvements should be considered for future funding after final installation of the current project.

The updated estimated cost for the fence is \$270,000 more than the original estimate of \$304,000 that was funded in 2022-23. This includes the additional LADBS and LAFD requirements, and LAPD SECSD requests related to the functionality of doors and gates. The additional cost has been discussed with the CAO and is expected to be handled in the 2024-25 1st CPR.

GSD has ordered all materials, some of which have a 12-week lead time, and is developing the construction timeline based on the longest current lead time for materials and the timing of the 1st CPR.

The installation will be done in the following order:

- LA Mall/CHE
 - (1) LA Street entry to Mall
 - (2) North Plaza entry to CHE
 - (3) Main St front areas of CHE and entry to Mall
- Triforium
 - (4) LA Street entry to Mall;
 - (5) Main St entry to Mall; and
 - (6) Fletcher Bowan Plaza entry to Mall

FISCAL IMPACT

The original funding of \$304,000 is insufficient to cover the additional requirements of the approved design and requests by LAPD. The estimated shortfall of \$270,000 has been discussed with the CAO and is anticipated to be addressed in the 2024-25 1st CPR.

RECOMMENDATION

That the Municipal Facilities Committee note and file this report.

Ourm. 1/05

Tony M. Royster General Manager

Attachment

ATTACHMENT A

	PROJECT DATA		
NAME OF BUILDING (EXISTING)	PD LA MALL	NAME OF BUILDING (NEW)	NEW FENCE
YEAR BUILT	N/A	YEAR BUILT	N/A
BUILDING AREA (EXISTING)	N/A	BUILDING AREA	N/A
NUMBER OF STORIES (EXISTING)	N/A	NUMBER OF STORIES	N/A
BUILDING HEIGHT (EXISTING)	N/A	BUILDING (FENCE) HEIGHT	8'-0"
CONSTRUCTION TYPE	N/A	CONSTRUCTION TYPE	V-B
OCCUPANCY CLASSIFICATION	N/A	OCCUPANCY CLASSIFICATION	U
OCCUPANCY SEPARATION	N/A	OCCUPANCY SEPARATION	N/A
AREA SCOPE OF WORK	N/A	AREA SCOPE OF WORK	N/A

PD LA MALL FENCING PHASE1

210 N. LOS ANGELES LOS ANGELES CA, 90012

FEBRUARY 8, 2024

PREPARED BY:

BUREAU VERITAS NORTH AMERICA

SCOPE	OF	WORK

THIS PROJECT IS THE PD LA MALL FENCING PHASE 1 PROJECT. PROJECT IS LOCATED AT 210 N. LOS ANGELES ST., LOS ANGELES, CA 90012. THE DESCRIPTION BELOW IS A BRIEF SUMMARY OF SCOPE OF WORK

INSTALL NEW FENCING TO SECURE EXISTING LA MALL AT MULTIPLE ENTRY POINTS - 7 ENTRY POINTS HAVE BEEN IDENTIFIED.

REFER TO SCHEMATIC DESIGN SET FOR A DETAILED SCOPE OF WORK

2. INSTALL NEW GATES & HARDWARE AS INDICATED ON PLANS.

		SHEET INDEX	VICINITY PLAN
NO. S	SHEET NO.	DESCRIPTION	
1	T-1.00	TITLE SHEET	
2	GN-0.10	GENERAL NOTES	
3	GN-1.00	OVERALL SITE PLAN (REFERENCE)	
4	GN-2.00	LA MALL UNDERGROUND PARKING LEVEL ACCESSIBLE PATH OF TRAVEL	Downtown Magnets
5	GN-2.01	LA MALL PLAZA LEVEL ACCESSIBLE PATH OF TRAVEL	High School V The Bholo exactlifients O Perrante Apartments Perrante
6	GN-2.02	LA MALL STREET LEVEL (LOS ANGELES ST) ACCESSIBLE PATH OF TRAVEL	santains realion
			Los Angeles County O Met
		ARCHITECTURAL	Water O The California Contraining of the California Contraining o
7	A-2.00	FENCE 1 - PARTIAL ENLARGED FLOOR PLAN & ELEVATIONS	Conversion of the second secon
8	A-2.01	FENCE 2 & FENCE 3 - PARTIAL ENLARGED FLOOR PLAN & ELEVATIONS	Creater De Paris Q Proventing Adventer Hatin Hall Angels Catholic Chart Q Vision 13 Q
9	A-2.02	FENCE 4 - PARTIAL ENLARGED FLOOR PLAN & ELEVATIONS	Clara Shorthoge Foltz
10	A-2.03	FENCE 5 - PARTIAL ENLARGED FLOOR PLAN & ELEVATIONS	E LA pland O World Trade Center
11	A-2.04	FENCE 6 - PARTIAL ENLARGED FLOOR PLAN & ELEVATIONS	Public Parking the blood P Public Parking Civic Ctr / Grand Park CM Los Angeles City Hall P
12	A-2.05	FENCE 7 - PARTIAL ENLARGED FLOOR PLAN & ELEVATIONS	The Museum of Q Contemporary At Los Prevales a Contraction of Contemporary At Los Prevales a Contemporary At Los
13	A-11.00	FENCE DETAILS	Angels Flight Railway Q
			Above 🖗 Grand Central Market 🖗 😜 Bradbury Building 👰 💿 Contingionary & MACCA 😜 Transis s
		STRUCTURAL	Bitmore Los Angeles de Dour Tree by Hittori Atel Los. Japanese American 🕥 Tues Trengie gr
14	S-0.01	GENERAL NOTES	Pershing Square Pershing Pershing Square Pershing Square Pershing Pershing Square Pershing Pershing Square Pershing
15	S-0.02	GENERAL NOTES	itreef / Metro Center The Last Bookstore V 200 & V Shin Service Of Service Service Service Of Service Of Service Service Of Service
16	S-0.03	GENERAL NOTES	
17	S-1.00	OVERALL SITE PLAN	
18	S-2.00	FENCE 1, 2 & 3 PARTIAL ENLARGED FLOOR PLAN	
19	S-2.01	FENCE 4, 5, 6 & 7 PARTIAL ENLARGED FLOOR PLAN	
20	S-3.00	DETAILS	
			210 N. LOS ANGELES
		TOTAL NUMBER OF SHEETS: 20	LOS ANGELES CA, 90012
			SILE MAP

APPLICABLE CODES

2023 COUNTY OF LOS ANGLES APPLICABLE CODES

2023 COUNTY OF LOS ANGELES BUILDING CODE (TITLE 26) 2023 COUNTY OF LOS ANGELES EXISTING BUILDING CODE (TITLE 33)



PD LA MALL



T-1.00





ABBREVIATIONS

EDGE OF SLAB

DIENE MONOMOR

EPDM

ETHYLENE PROPYLENE

AB	ANCHOR BOLT ACOUSTICAL THE	EQ FOI SP
ADJ	ADJACENT / ADJUSTABLE	EQUIP EST
AFF AFG ∆HII	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	ETC EW FWC
ALUM ANOD	ALUMINUM ANODIZED	EXIST
ALT ANSI	ALTERNATE NO. AMERICAN NATIONAL	EXP EXPAN
AOR APPROX	ARCHITECT OF RECORD	FOC
APVD ARCH	APPROVED ARCHITECT	F / F FOCMU
ASSY AUTO	ASSEMBLY AUTOMATIC /	FA
AVG AWI	AVERAGE AMERICAN	FF
۸۱۸/T	WOODWORKING INSTITUTE	FD FNDN FDVC
	TREATMENT	FE
3/B	BACK TO BACK	FEC
BD BLDG BLKG	BUILDING BLIOCKING	FF INSU
BLST BM	BALLAST BEAM/BENCH MARK	FIN GR
BOS BOT BRC	BOTTOM OF STEEL BOTTOM BEARING	fh FHC FIN
BNG BSMT BTWN	BASEMENT BETWEEN	FIXT FL
BUR	BUILT UP ROOFING	FLR FLUOR FND
CB CBB	CATCH BASIN CEMEMTITOUS BACKER	FR
c/c	BOARD CENTER TO CENTER	FT FTG
CAB CEM	CABINET CEMENT DLAS CEMENT DLASTER	FURG FURN
CER CF	CERAMIC CUBIC FOOT/FEET	FVC
CFCI	CONTRACTOR FURNISHED /	GA GAL
CFOI	CONTRACTOR INSTALLED	GALV GYP BD GYP SHI
CFLG CF/MF	COUNTER FLASHING COLD FORMED METAL	GC
CG	FRAMING CORNER GUARD	GEN GI
CJ	CAST IN PLACE CONTROL JOINT/ CONSTRUCTION JOINT	GLZ GRD
CL CLG	CHAIN LINK CEILING	GND
CLO CLR	CLOSET CLEAR CLEAT	HC
CMU	CONCRETE MASONRY UNIT	HD HDW
CNA	CONTRACTOR'S NATIONAL ASSOCIATION	HDWD HM HT
COL CONC	COLUMN CONCRETE	HORIZ HP
COND CONST	CONDITION CONSTRUCTION	HVAC
CONT	CONTINUE / CONTINUATION OR	HWH HW
CONTR COORD	CONTRACTOR COORDINATE	ID
COP CORR	COPING CORRIDOR CARDET	id INV EL IF
CSK CT	COUNTER SUNK CERAMIC TILE	ior In
CTR CU FT	CENTER CUBIC FOOT/FEET	INCAND INCL INSTI
CW CY	CUBIC YARDS	INSUL INT
)	DEPTH/DEEP	INV
OBL DEMO DET	DOUBLE DEMOLITION DETAIL	J BOX JAN CLC
DF DEL	DRINKING FOUNTAIN DELETE	JT
DETN DIA DIAC	DETENTION DIAMETER DIACONAL	KII LAB
DIM DISP	DIMENSION DISPENSER	LAM
DMPF DN	DAMPPROOFING DOWN	LBS LF I H
JR JS ITC	DOOR/DRAIN DOWNSPOUT DETAIL	LLH LLV
OWG	DRAWING	LPT I T
E/(E) Fa	EAST/EXISTING FACH	LTG LVR
EIFS	EXTERIOR INSULATION FINISH	
EJ FI	SYSTEM EXPANSION JOINT REFERENCE ELEVATION	
LLEC ELEV	ELECTRIC / ELECTRICAL ELEVATOR / FLEVATION	
EMERG ENCL	EMERGENCY ENCLOSURE	
	ENGINEER / ENGINEERING	
-INL FOR	ENGINEER OF RECORD	

EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
EST	ESTIMATE
ETC	ET CETERA
EW EWC EXIST EXP	EACH WAY ELECTRIC WATER COOLER EXISTING EXPOSED
EXPAN	EXPANSION
EXT	EXTERIOR / EXTERNAL
FOC	FACE OF CONCRETE
F / F	FACE TO FACE
FOCMU FA FACP	FACE OF CONCRETE MASONRY UNIT FIRE ALARM FIRE ALARM CONTROL
FF	FLOOR FINISH
FD	FLOOR DRAIN
FNDN	FOUNDATION
FDVC	FIRE DEPARTMENT
FE FEC F F EL	VALVE CABINET FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISHED FLOOR
FF INSUL FIN GR FH	ELEVATION FOIL BACKED INSULATION FINISHED GRADE FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN	FINISH
FIXT	FIXTURE
FL	FLOW LINE
FL R	FLOOR/FLOORING
FLUOR FND FR	FLUOR/FLOORING FLUORESCENT FOUNDATION FRAME / FIRE RATED / FIRE RETARTANT
FT	FOOT/FEET
FTG	FOOTING
FURG	FURRING
FURN	FURNISH
FUT	FUTURE
FVC	FIRE VALVE CABINET
GA	GAGE
GAL	GALLONS
GALV	GALVANIZED
GYP BD	GYPSUM BOARD
GYP SHTG	GYPSUM SHEATHING
GC	GENERAL CONTRACTOR
GEN	GENERAL / GENERATOR
GI	GALVANIZED IRON
GL	GLASS
GLZ	GLAZING
GRD	GRADE/GRADING
GND	GROUND
HC	HANDICAPPED
HD HDW HDWD HM HT HORIZ HP HVAC HWH HW	ACCESSIBLE / HOLLOW CORE HEAD HARDWARE HARDWOOD HOLLOW METAL HEIGHT HORIZONTAL HORIZ HIGH POINT / HORSEPOWER HEATING VENTILATION AND AIR CONDITIONING HOT WATER HEATER HOT WATER
ID	INSIDE DIAMETER
ID	INTERIOR DESIGN
INV EL	INVERT ELEVATION
IF	INSIDE FACE
IOR	INSPECTOR OF RECORD
IN	INCHES
INCAND	NCANDESCENT
INCL	INCLUDING INCL
INSTL	INSTALL
INSUL	INSULATE / INSULATION
INT	INTERIOR / INTERNAL
INV	INVERT
JAN	JANITOR
J BOX	JUNCTION BOX
JAN CLO	JANITOR CLOSET
JT	JOINT
KIT	KITCHEN
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FEET
LH LLH LLV LPT LT LTG	LEFT HAND LONG LEG HORIZONTAL LONG LEG VERTICAL LOW POINT LIGHT LIGHTING
LVR	LOUVER

MAINT MAS MATL MAX MECH MED MEMB MFG MFR MIN MISC ML MO MOD BIT MR MS MTD MTL MULL	MAII MAS MAT MAX MEC MEN MAN MIN MIN MIN MIS MOI RES MOI RES MOI MUL
N/A NCOMBL NEG NIC NO NOM NTS OA OC OF OFI OF/CI OF/CI OF/OI OH O/O OPNG OPP ORD ORIG ORN ORS	NOT NOM NOT NUM NOT OVE ON OVE OVE OVE OVE OVE OVE OVE OVE OVE OVE
PTN PAT PBD PCC PERF PERM PL PL PL PLAM PLAS PLBG PLYWD P.O.C. POL PNL PT PR PREFAB PREFIN PREFIN PREFIN PREFIN PREFIN PREFIN PREJIM PRED PT CONC PTD PVC PVMT	PAR PAR PAR PER PER PLA PLA PLA PLA PLU POII PAI PAI PAI PAI PAI PAI PAI PAI PAI P
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S SOUTH SALV SALVAGE SAN SANITARY SB SPLASH BLOCK SCWD SOLID CORE WOOD DOOR SCHED SCHEDULE / SCHEDULED SCHEM SCHEMATIC S.D. SHADING DEVICE SEC SECOND SECT SECTION SEOR STRUCTURAL ENGINEER OF RECORD SF SQUARE FEET SGL SINGLE SHT SHEET SHT MTL SHEET METAL FLASH FLASHING SHTHG SHEATHING SIM SIMILAR SLNT SEALANT SURF MTD SURFACED MOUNTED SM SMALL SMAC SHEET METAL AIR CONDITIONING S.O.G SLAB ON GRADE SPLY SUPPLY SPEC SPECIFICATION(S) SPRT SUPPORT SQ SQUARE SST STAINLESS STEEL STC SOUND TRANSMISSION CLASS STD STANDARD STL STEEL STL JST STEEL JOIST STOR STORAGE SURF SURFACE SUSP SUSPENDED SYMM SYMMETRICAL T TREAD T&B TOP & BOTTOM T&G TONGUE & GROOVE TBD TO BE DETERMINED TEL TELEPHONE TEMP TEMPERATURE / TEMPORARY TERR TERRAZZO THK THICK THRES THRESHOLD THRU THROUGH TMPD GL TEMPERED GLASS TO TOP OF TOJ TOP OF JOIST TOC TOP OF CONCRETE TOC TOP OF CURB TOM TOP OF MASONRY TOP TOP OF PARAPET TOS TOP OF STEEL TOS TOP OF SLAB TOW TOP OF WALL TRTD TREATED TS TUBE STEEL TYP TYPICAL UBC UNIFORM BUILDING CODE UC UNDERCUT UL UNDERWRITER'S LABORATORIES UNFIN UNFINISHED UON UNLESS OTHERWISE NOTED UR URINAL UTIL UTILITY VAR VARIES VNR VENEER VCT VINYL COMPOSITION TILE VERT VERTICAL VEST VESTIBULE VIF VERIFY IN FIELD VTR VENT THROUGH ROOF VWC VINYL WALL COVERING W WEST / WIDTH W/ WITH WBL WOOD BLOCKING WC WATER CLOSET WC WALL COVERING WD WOOD WDW WINDOW WF WIDE FLANGE WGL WIRED GLASS WH WATER HEATER WH WEEP HOLE W/O WITHOUT WP WATERPROOFING WP WORKING POINT WR WATER RESISTANT WT WEIGHT WTR WATER WWF WELDED WIRE FABRIC YD YARD / YARDS MISCELLANEOUS SYMBOLS NUMBER/POUNDS AND @ AT / EACH / RATE FEET / MINUTES INCHES / SECONDS " X° DEGREES DIAMETER ANGLE CENTERLINE

GRAPI	HIC SYMBOLS	GENERAL NOT
SYMBOLS	DESCRIPTION	1. ALL WORK SHALL COMPLY WITH CODES, LAWS, & REGULATION WORK & TITLE 24, PART 2 OF 2019 CBC.
	COLUMN GRID LINE	2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS A ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES.
	WALL SECTION REFERENCE SECTION	3. CONTRACTOR SHALL SUBMIT REQUESTS FOR SUBSTITUTIONS, F TO PURCHASE, FABRICATION OR INSTALLATION.
A501	NUMBER DRAWING ON WHICH SECTION IS SHOWN BUILDING SECTION	4. CONTRACTOR SHALL PROTECT AREA OF WORK AND ADJACENT DURING CONSTRUCTION.
A201 A201	NUMBER DRAWING ON WHICH SECTION IS SHOWN DETAIL SECTION	5. COORDINATE WORK WITH THE OWNER, INCLUDING SCHEDULING ACCESS & USE OF SERVICES. MINIMUM DISTURBANCE TO NE
(A601) =	REFERENCE DETAIL NUMBER DRAWING ON WHICH DETAIL IS SHOWN	6. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONSTRUC
A 102	REFERENCE DETAIL NUMBER DRAWING ON WHICH DETAIL IS SHOWN	AND ORDINANCES.
D A2.1 B	ELEVATION REFERENCE ELEVATION NUMBER DRAWING ON WHICH ELEV. IS SHOWN	DUE TO CONSTRUCTION ACTIVITY) AS REQUIRED TO & MATCH REQUIRED.
EL. XX'-XX"	νερτισλί ει ενλτίων μαρκ	9. CONTRACTOR SHALL VERIFY AT SITE THE EXTENT OF WORK WI CLOUDS OR OTHERWISE ON THE DRAWINGS.
NORTH	VENTIONE ELEVATION MIANN	10. MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONS
	NORTH ARROW	OWNER.
A-2 00	SHEET NUMBER	THE SATISFACTION OF ARCHITECT.
	KEYNOTE	14. AFTER REMOVAL OF DAMAGED STRUCTURE & CLEAN UP, STRU FXAMINE STRUCTURE AT SITE PRIOR TO STARTING WORK.
		15. ALL CONSTRUCTION INDICATED BY AN "(E)" IS EXISTING, UNLE
	AREA OF WORK OR DETAIL DESIGNATION	16. PARTITIONS ARE DIMENSIONED TO FACE OF STUD, UNLESS OT
		17. COORDINATE AND PROVIDE BACKING FOR MILLWORK AND ITEMS
		18. CHANGES TO APPROVED DRAWINGS OR SPEC'S SHALL BE MAD APPROVED BY THE OWNER. AS REQUIRED BY SECTION 4–338
		19. A CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE OWNER WORK. DUTIES OF INSPECTOR ARE DEFINED IN SECTION 4.34
		20. IN CASE OF CONFLICT, MOST EXPENSIVE METHOD OF CONSTR
		21. ALL SUBCONTRACTORS MUST FIELD WALK SITE DURING BIDDIN CONDITIONS. BIDDING SUBCONTRACTOR SHALL VERIFY ALL (E BIDDING PHASE, INCLUDING ALL UTILITIES & OTHER WORKS & DISCREPANCIES, CONFLICTS OR OMISSIONS, ETC., SHALL BE R WITH WORK. NO ALLOWANCE SHALL BE MADE FOR ANY EXTR CONTRACTOR'S FAILURE OR NEGLECT OF COMPLETE EXAMINATI
		22. LOCATIONS OF UTILITIES IF INDICATED ON PLANS IS NOT GUAF BUT IS PLOTTED FOR INFORMATION OF CONTRACTOR. IT SHAL CONTRACTOR TO DETERMINE EXACT LOCATIONS OF UTILITIES &
		23. CONSTRUCTION DOCUMENTS ARE PROVIDED TO ILLUSTRATE DE DESIRED, & IMPLIES THE FINEST QUALITY OF CONSTRUCTION I ASSUMING RESPONSIBILITY FOR THE WORK INDICATED, & SHAI LETTER IN WHICH THEY WERE DRAWN.
		24. THE CONTRACTOR SHALL MAINTAIN LIABILITY INSURANCE TO PER HARMLESS FROM ANY & ALL CLAIMS FOR DAMAGES, FOR PER PROPERTY DAMAGE DURING THE COURSE OF CONTRACT. COM THE SUPERVISION OF ALL WORK DONE BY ANY OF HIS SUBC FOR SUCH SUPERVISION SHALL INCLUDE ALL ASPECTS OF THE OF SPEED, QUALITY & SAFETY THEREOF. ALL SUBCONTRACTO OTHERWISE APPROVED BY THE OWNER IN WRITING.
		25. THE CONTRACTOR GUARANTEES THAT THE WORK PERFORMED WORKMANSHIP. UPON RECEIPT OF NOTIFICATION FROM THE O OR REPLACE IMMEDIATELY WITHOUT COST TO OWNER ALL DEF WORK. IT SHALL BE UNDERSTOOD U.O.N. THAT ALL MATERIAL FOR A PERIOD OF ONE YEAR BY CONTRACTOR FROM THE ACC
		26. THE INTENT OF DRAWINGS & SPECIFICATIONS IS THAT THE WO RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, O COVERED BY THE CONTRACT DOCUMENTS SUCH THAT THE FIN TITLE 24, CCR, A CHANGE ORDER DETAILING & SPECIFYING TH & APPROVED BY THE ARCHITECT BEFORE PROCEEDING WITH T
		27. OWNER SHALL NOTIFY ARCHITECT OR ENGINEER OF RECORD (DATE, FOR CONSTRUCTION OBSERVATION AND SUPPORT SERVIC
		28. NO SCOPE OF ANY WORK SHALL BE ADDED OR DELETED FRO NOTIFYING ARCHITECT OR ENGINEER OF RECORD (AOR/EOR) F
		MADE, & FIELD CHANGE DOCUMENT (FCD) SHALL BE FILED B 29. IN CASES WHERE SLOPE PERCENTAGES AND DIMENSIONS ARE
		REGULATED BY THE AMERICAN DISABILITIES ACT AND CHAPTER SLOPE PERCENTAGES AND DIMENSIONS SHOWN MAY BE MORE DIMENSIONS AND SLOPE GRADIENTS ALLOWED IN CHAPTER IIB DEEMED TO BE IN COMPLIANCE WITH THESE DOCUMENTS.
		SLOPE PERCENTAGES AND DIMENSIONS SHOWN MAY BE M DIMENSIONS AND SLOPE GRADIENTS ALLOWED IN CHAPTER DEEMED TO BE IN COMPLIANCE WITH THESE DOCUMENTS.

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INS OF PUBLIC AUTHORITIES GOVERNING THE

AT THE JOB SITE PRIOR TO START OF WORK.

REVISIONS, OR CHANGES TO ARCHITECT PRIOR

AREAS ON SITE FROM BEING DAMAGED

TIME, LOCATIONS FOR DELIVERIES, SITE EIGHBORS.

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ALL SURFACES & IMPROVEMENTS DAMAGED ADJACENT (E) SURFACES, PAINT AS

HICH MAY OR MAY NOT BE INDICATED BY

STRUCTION.

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TO THE PAVED AND LANDSCAPED AREAS TO

UCTURAL ENGINEER OF RECORD SHALL

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HERWISE NOTED. MAINTAIN DIMENSIONS

MS ATTACHED OR MOUNTED TO WALLS OR

ADE BY AN ADDENDA OR CHANGE ORDER B, PART 1, TITLE 24.

SHALL PROVIDE CONTINUOUS INSPECTION OF 342, CALIFORNIA BUILDING STANDARDS

RUCTION SHALL GOVERN.

ING PHASE TO FAMILIARIZE WITH (E) E) CONDITIONS & DIMENSIONS DURING THE FACILITIES THAT MAY AFFECT WORK. ANY REPORTED TO ARCHITECT BEFORE PROCEEDING TRA EXPENSE OR EXTENSION OF TIME DUE TO TION OF JOB SITE.

RANTEED TO BE ACCURATE OR COMPLETE, ALL BE THE RESPONSIBILITY OF THE *α* THEIR SERVICE CONNECTIONS.

ESIGN & GENERAL TYPE OF CONSTRUCTION MATERIALS & WORKMANSHIP. CONTRACTOR IS ALL COMPLY WITH THE SPIRIT AS WELL AS THE

ROTECT HIMSELF & HOLD THE OWNER RSONAL OR BODILY INJURIES OR DEATH OR NTRACTOR WILL BE FULLY RESPONSIBLE FOR CONTRACTORS. CONTRACTOR'S RESPONSIBILITY E WORK, INCLUDING & WITHOUT LIMITATION ORS SHALL BE DULY LICENSED, UNLESS

WILL BE FREE FROM FAULTY MATERIALS & OWNER, CONTRACTOR SHALL REMEDY, REPAIR FECTS OR IMPERFECTIONS APPEARING IN THE ALS & WORKMANSHIP SHALL BE GUARANTEED CCEPTANCE OF THE PROJECT BY THE OWNER.

ORK OF THE ALTERATION, REHABILITATION OR CCR. SHOULD ANY CONDITIONS DEVELOP NOT NISHED WORK WILL NOT COMPLY WITH SAID THE REQUIRED WORK SHALL BE SUBMITTED TO THE WORK.

(AOR/EOR), PRIOR TO CONSTRUCTION START CFS.

ROM THE APPROVED DOCUMENTS WITHOUT FOR APPROVAL. IF CHANGES ARE TO BE BY THE AOR/EOR.

IDENTIFIED ON THESE PLANS FOR ELEMENTS IIB OF THE CALIFORNIA BUILDING CODE, THE STRINGENT THAN REQUIRED BY CODE. OF THE CBC SHALL BE ACCEPTABLE AND

GENERAL DEMOLITION NOTES

- REQUIRED TO COMPLETE NEW CONSTRUCTION WORK. 2. FIELD VERIFY CONDITIONS, PRIOR TO START OF DEMOLITION OPERATIONS. BRING ANY DISCREPANCIES WHICH MAY SIGNIFICANTLY AFFECT DEMOLITION OR NEW CONSTRUCTION WORK TO THE ATTENTION OF THE ARCHITECT FOR REVIEW.
- 3. PROTECT EXISTING CONSTRUCTION TO REMAIN FROM DAMAGE DURING DEMOLITION AND / OR NEW CONSTRUCTION OPERATIONS. CONDUCT DEMOLITION OPERATIONS SO AS TO MINIMIZE THE DEVELOPMENT AND SPREAD OF DUST.
- 4. REMOVE DEMOLITION MATERIALS FROM SITE PROMPTLY AND DISPOSE OF LEGALLY OFF SITE.
- 5. DO NOT ALTER THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING OR ITS ASSEMBLIES UNLESS SPECIFICALLY NOTES OTHERWISE.
- 6. UPON REMOVAL OF FINISH MATERIALS INDICATED OR REQUIRED, PREPARE SUBSTRATE TO RECEIVE NEW FINISH. REFER TO ROOM FINISH SCHEDULE FOR NEW MATERIAL(S). REPAIR ANY DAMAGE ARISING FROM DEMOLITION OPERATIONS, TO MATCH EXISTING AND AS NEEDED FOR INSTALLATION OF NEW FINISH(ES).
- 7. PATCH AND REPAIR DAMAGE ARISING FROM DEMOLITION OPERATIONS TO CEILING SURFACES, TO MATCH EXISTING. REMOVE ANY EXTRANEOUS MATERIALS AND PATCH TO MATCH ADJACENT SURFACES.
- 8. PROVIDE DUST PROOF BARRIERS TO SEPARATE DEMOLITION AREA FROM THE REST OF THE FACILITY. PROVIDE TEMPORARY FILTERS AS REQUIRED TO PREVENT THE SPREAD OF DUST THROUGH THE BUILDING VIA THE RETURN AIR SYSTEM. UPON COMPLETION OF DEMOLITION OPERATIONS, REMOVE BARRIERS AND REPAIR DAMAGE CAUSED BY THEIR INSTALLATION OR PRESENCE TO "LIKE NEW" CONDITION.
- MAINTAIN MEANS OF EGRESS, AND KEEP FULLY SEPARATE FROM CONSTRUCTION AREA, AT ALL TIMES. 9.
- 10. COORDINATE TIMING AND HOURS OF DEMOLITION OPERATIONS WITH THE OWNER'S SCHEDULE.
- 11. MINIMIZE NOISE FROM DEMOLITION OPERATIONS PARTICULARLY WHEN CONDUCTED DURING BUSINESS HOURS.
- 12. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDING AREAS. ENSURE SAFE PASSAGE OF PEOPLE AROUND SELECTIVE DEMOLITION AREA.
- A. PROTECT WALLS, CEILINGS, FLOORS AND OTHER FINISH WORK THAT ARE TO REMAIN AND ARE EXPOSED DURING SELECTIVE DEMOLITION OPERATIONS.
- B. COVER AND PROTECT FURNISHINGS AND EQUIPMENT THAT HAVE NOT BEEN REMOVED.
- C. DO NOT BLOCK ANY EXITS DURING CONSTRUCTION OPERATIONS.
- 13. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT AND DEBRIS CAUSED BY SELECTIVE DEMOLITION AND NEW CONSTRUCTION OPERATIONS.
- 14. EXISTING CONSTRUCTION MAY CONTAIN LEAD CONTAMINATED PRODUCTS. MATERIALS THOUGHT TO CONTAIN LEAD MUST BE INSPECTED BY AN EPA CERTIFIED INSPECTOR CAPABLE OF SAMPLING FOR THE EXISTENCE OF LEAD. WORK SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT EPA REGULATIONS AND DISPOSED OF IN ACCORDANCE WITH CURRENT EPA REGULATIONS.
- 15. SUBMIT REPAIR OR PATCHING OF (E) DAMAGE, (N) CORES OR DAMAGE OCCURRED DURING CONSTRUCTION TO OWNER FOR APPROVAL.
- 16. CONTRACTOR IS TO DISMANTLE AND REMOVE ALL EXISTING ALL WORKSTATIONS AND OFFICE FURNITURE WITHIN THE WORK AREA AND RELOCATE TO A DESIGNATED LOADING DOCK AT FACILITY WHERE WORK IS BEING CONDUCTED.





CONSULTANT:

APPROVAL:





OVERALL SITE PLAN (FOR REFERENCE) Scale: 1/32" = 1'-0"



















DETAIL FOR REFERENCE ACCESSIBLE COMPLIANT SIGNAGE



DETAIL FOR REFERENCE (E) ACCESSIBLE COMPLIANT DOOR & WALL MOUNTED SIGNAGE

|--|





NORTH





PLAZA LEVEL FLOOR PLAN SHOWN FOR REFERENCE

PARTIAL SITE PLAN AT GRADE LEVEL AT LOS ANGELES STREET

LEGEND

ACCESSIBLE PATH OF TRAVEL (P.O.T.)

LA MALL - STREET LEVEL ACCESSIBLE PATH OF TRAVEL Scale: 1/32" = 1'-0"









ITEM	MATERIAI
ALL PLATE, ANGLE & CHANNEL	A36 STEEL
ALL TUBE STEEL	A500 GRADE B
ALL GA WIRE	COMMERCIAL GALV, 8GA

FENCE 4 ELEVATION





FENCE MATERIAL SPECIFICATIONS

ITEM	MATERIAL
ALL PLATE, ANGLE & CHANNEL	A36 STEEL
ALL TUBE STEEL	A500 GRADE B
ALL GA WIRE	COMMERCIAL GALV, 8GA

* <u>NOTES</u>:

1. UNLESS OTHERWISE NOTED, ALL PRE-GALVANIZED MATERIAL: A653 w/MIN. ZINC COATING.

2. FINISH: POWDER COAT, BLACK.

KEYNOTES

03.120 (E) COLUMN TO REMAIN 03.121 (E) CONCRETE STAIR TO REMAIN 03.122 (E) CONCRETE PLANTER TO REMAIN





0	4'	8'	16'	24'	32'
			1/8" = 1'-0"		

FENCE 6 - PHOTO FRONT ELEVATION FROM MAIN STREET

FENCE 6 - ELEVATIONS

SCALE N.T.S.

16

(E) SIDEWALK AT GRADE/STREET LEVEL [MAIN STREET]

16 A-11.00 SIM.

	FENCE MATERI	AL SPECIFICATION
	ITEM ALL PLATE, ANGLE & CHANNEL ALL TUBE STEEL	MATERIAL A36 STEEL A500 GRADE B
	ALL GA WIRE * <u>NOTES</u> : 1. UNLESS OTHERWISE NOTE A653 w/MIN. ZINC COATING 2. FINISH: POWDER COAT, BL	COMMERCIAL GALV, 8GA D, ALL PRE-GALVANIZED MATERIAL: ACK.
05.140 05.140 BEYOND TOP OF (N) FENCE 8'-0" TOP OF (E) PLANTER +/-4'-2" V.I.F.		
(E) FLOOR FINISH SURFACE DATUM 03.141 05.142	03.140(E) CONCRETE WALL TO REM03.141(E) CONCRETE PLANTER TO R03.142(E) CONCRETE STAIR TO REM05.140INSTALL (N) ANTI-CLIMB METASIDE OF (E) CONCRETE WALL	YNOTES AIN EMAIN AIN L FENCE; FENCE POSTS SURFACE MOU
DE.140 TOP OF (N) FENCE 8'-0" 1 1 1 1 1 1 1 1 1 1 1 1 1	05.141INSTALL (N) ANTI-CLIMB META (E) CONCRETE SLAB05.142(N) METAL POST FOR (N) GATE05.143(N) RECESSED METAL GUIDE F08.140INSTALL (N) 8'-0" HEIGHT ROLL	L FENCE; FENCE POSTS ATTACHED TO E ATTACHED TO (E) CONCRETE SLAB FOR (N) ROLLING GATE .ING GATE; PROVIDE (N) HARDWARE
SCALE 1/4" = 1'-0" 6		
42 42 19'-9" TI-CLIMB FENCE 05.140 16 1100	ΚE	ΥMAP
03.141		
CALCULATION INT.		

ST ISO

Α

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PARTIAL ENLARGED FLOOR PLAN 8 NORTH 24' 32' 16'

FENCE 7 - ELEVATION

FENCE 7 - ELEVATION

	SCALE N.T.S.	4	RECONSTRUCTION KEYNOTES
$SIM \underbrace{6}{(H100)}$			03.150 (E) CONCRETE STAIR TO REMAIN 03.151 (E) CONCRETE PLANTER TO REMAIN 03.152 (E) CONCRETE WALK TO REMAIN 03.153 (E) CONCRETE LANDING TO REMAIN 05.150 (E) METAL RAIL TO REMAIN 05.151 INSTALL (N) ANTI-CLIMB METAL FENCE 05.152 (N) METAL POST FOR (N) GATE & FENCE ATTACHED TO (E) CONCRETE 05.153 (N) METAL POST FOR (N) FENCE ATTACHED TO SIDE OF (E) CONCRETE 05.154 (N) METAL POST FOR (N) FENCE ATTACHED TOP OF (E) CONCRETE PL 08.150 INSTALL (N) 7'-0" HEIGHT 180 DEG. SWINGING GATE; PROVIDE (N) HARI 32.150 (E) CONCRETE PLANTER TO REMAIN
	SCALE 1/4" = 1'-0"	6	
FENCE 7 PARTIAL ENLARGED RECONSTRUCTION FLOOR PLAN			KEY MAP
0 4' 8' 16' 24' 32'	NOR	Ĩ TH	

0	4'	8'	16'	24'	32'
			1/8" = 1'-0"		

FENCE MATERIAL SPECIFICATIONS

ITEM	MATERIAL
ALL PLATE, ANGLE & CHANNEL	A36 STEEL
ALL TUBE STEEL	A500 GRADE B
ALL GA WIRE	COMMERCIAL GALV, 8GA

* <u>NOTES</u>:

1. UNLESS OTHERWISE NOTED, ALL PRE-GALVANIZED MATERIAL: A653 w/MIN. ZINC COATING.

2. FINISH: POWDER COAT, BLACK.

CAST-IN-PLACE CONCRETE	
 APPLICABLE STANDARDS: ACI 318 AND ACI A301 EXCEPT AS AMENDED IN APPLICABLE CODE CHAPTER 19 AND AS MODIFIED BY SUPPLEMENTAL REQUIREMENTS HEREIN. 	1. ALL WORK S CODE AND R
 APPLICABLE STANDARDS: ACI 318 AND ACI A301 EXCEPT AS AMENDED IN APPLICABLE CODE CHAPTER 19 AND AS MODIFIED BY SUPPLEMENTAL REQUIREMENTS HEREIN. PORTLAND CEMENT: ASTM C150, TYPE II AGGREGATES: A NORMAL WEIGHT CONCRETE AGGREGATE: ASTM C33 FOR AGGREGATES OF NATURAL SAND AND ROCK. MAXIMUM AGGREGATE SIZE IS 1-1/2 INCHES AT FOUNDATIONS AND SLABS ON GRADE AND 1" ELSEWHERE. LIGHT WEIGHT AGGREGATE FOR STRUCTURAL CONCRETE: ASTM C330, EXPANDED SHALE LIGHT WEIGHT AGGREGATE SOF PEA GRAVEL SIZE. MINIMUM 25-DAY CONCRETE COMPRESSIVE STRENGTH AND TYPES: LOCATION IN <u>COMPRESSIVE STRENGTH MAX</u> <u>STRUCTURE</u> CONCRETE UNLESS OTHERWISE INDICATED ON STRUCTURAL DRAWINGS 3,000 PSI NORMAL WEIGHT (145 PCF) 0.5 ALL CONCRETE ABOVE GRADE, INCLUDING, SLAB ON GRADE, ELEVATED SLAB, DECK FILL, TOPPING SLAB, WALL, COLUMN, TOPPING SLAB, AND COLUMN COVER SHALL HAVE 1.6 POUNDS OF 1 ½" OF FIBER ULTRANET BY FORTA CORP. PER CUBIC YARD OF CONCRETE. LEAN CONCRETE: WHERE SPECIFICALLY INDICATED, CONTAINING 2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE. NON-SHRINK GROUT: ASTM C109, CAMENTITIOUS, NON-METALLIC ATTAINING A COMPRESSIVE STRENGTH OF 6000 PSI. 	 ALL WORK S CODE AND R ALL DRAWING DOCUMENTS OF ALL DRAW DISCREPAND AFTER REFE CLARIFICATION DOCUMENTS THE CONTRA ALL SYMBOL CONSTRUCT NOTIFY THE ALL DIMENSI THE JOB SITIC CONSTRUCT ENCOUNTER THE JOB SITIC CONSTRUCT ENCOUNTER THE CONTRA CONTRACTO ADJACENT E NEW WORK. DO NOT SCA DRAWINGS A WHERE NO S OR SIMILAR THE CONTRACTO ADJACENT E
 8. CONCRETE MIX DESIGN SUBMITTAL: PRIOR TO ORDERING CONCRETE, SUBMIT FOR EACH COMPRESSIVE STRENGTH AND TYPE OF CONCRETE REQUIRED DESIGNED, SIGNED, AND SEALED BY A REGISTERED CIVIL ENGINEER IN THE STATE OF CALIFORNIA TO ARCHITECT (STRUCTURAL ENGINEER), SPECIAL INSPECTOR AND TO GOVERNING CODE AUTHORITY COMPLYING WITH APPLICABLE CODE, CHAPTER 19. 9. CONSTRUCTION JOINT SUBMITTAL: SUBMIT TO ARCHITECT (STRUCTURAL ENGINEER) AT LEAST 14 DAYS PRIOR TO PLACING CONCRETE INDICATING LOCATIONS OF CONSTRUCTION JOINTS AND EXTENT OF POURS. PLACE JOINTS AT LOCATIONS OF CONSTRUCTION JOINTS AND EXTENT OF POURS. PLACE JOINTS AT LOCATIONS TO MINIMIZE EFFECTS OF SHRINKAGE AS WELL AS BEING PLACED AT POINTS WHICH LEAST IMPAIR STRENGTH OF STRUCTURE. PROVIDE DOWELS AS DIRECTED. 10. EMBEDMENTS AND PENETRATIONS IN CONCRETE: NO PENETRATIONS THROUGH STRUCTURAL CONCRETE IS PERMITED UNLESS SPECIFICALLY ACCEPTANCE IN WRITING BY ARCHITECT (STRUCTURAL ENGINEER). A. PIPES, SLEEVES, CONDUITS, AND DUCTS: NOT PERMITTED EMBEDDED OR PENETRATING CONCRETE SPERAD EQUINGS. COLUMNS, WALLS OR CONCRETE CAST 	 THEY DO NO PROVIDE ALL WORKMEN D BRACING, SH VISITS TO TH INSPECTION THE RESPON 9. FOR TRENCH PERSON IS F PERMIT FRO ISSUANCE O 10. NO HOLES, DETAILED O 11. COORDINAT
 PENETRATING CONCRETE SPREAD FOOTINGS, COLUMNS, WALLS OR CONCRETE CAST OVER METAL DECKING. B. CONDUITS EMBEDDED INSTRUCTURAL CONCRETE SLABS: NOT PERMITTED UNLESS LIMITED TO TWO LAYERS OF 1 INCH OUTSIDE DIAMETER CONDUITS AND SMALLER SPACED AT LEAST 3 INCHES CENTER TO CENTER AND WITHIN MIDDLE THIRD OF SLAB THICKNESS. NO CONDUIT EMBEDDED IN CONCRETE CAST OVER METAL DECKING IS PERMITTED. 11. CHAMFERED CORNERS: PROVIDE ¼-INCH CHAMFER AT EXPOSED CORNERS OF COLUMNS, BEAMS AND WALLS EXCEPT WHERE STRUCTURAL WALLS ARE LAID FLUSH WITH COLUMN OR BEAM FACES, UNLESS DETAILED OTHERWISE. 12. CONSTRUCTION JOINTS: CONSTRUCTION JOINTS SHALL HAVE ENTIRE SURFACE REMOVED TO MIN 1/4" TO EXPOSE CLEAN, SOLIDLY EMBEDDED AGGREGATE PER TYP. DETAILS, PROVIDED IN THIS SET. CONSTRUCTION JOINTS SHALL BE PROVIDED TO LIMIT SHRINKAGE CRACKS. A MAX DISTANCE OF 50FT. SHALL BE CONSIDERED IF NO CONTROL JOINTS IS CALLED ON PLANS. THE CONTRACTOR SHALL DETAIL ENGINEER'S APPROVAL OF CONSTRUCTION JOINT LOCATION IN SLABS, WALL AND BEAMS. JOINTS SHALL BE SHOWN ON SHOP DRAWING CONFORMING TO THE ABOVE REQUIREMENT. 13. CURING: MAINTAIN CONCRETE ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT UNLESS OTHERWISE ACCEPTED BY ARCHITECT (STRUCTURAL ENGINEER). 	 IN CASE OF PRECEDEN CUTTING, B STRUCTUR ACCEPTED OWNER. DO SPECIFIED INSTRUCTIO OBTAIN A CO THE EXACT OR OTHER DRAWINGS ITEMS. SUBSITITUT OWNER PR FOR NEW CO FOR NEW CO TESTING LA ARCHITECT THE SPECIA ARCHITECT

GENERAL NOTES

SHALL COMPLY WITH CALIFORNIA BUILDING CODE 2022 (CBC 2022), CALIFORNIA **REGULATION (CCR), TITLE 24 PART 2.**

IGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT S. THE **CONTRACTOR** SHALL BE RESPONSIBLE FOR THE REVIEW AND VERIFICATION WINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY CIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF **ARCHITECT**, HERE ERRED TO AS **OWNER**, PRIOR TO THE START OF CONSTRUCTION SO THAT A ION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT S OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE **CONTRACTOR** AT ACTOR'S OWN EXPENSE, AND AT NO EXPENSE TO THE OWNER.

S AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE FION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL **OWNER** PRIOR TO PROCEEDING WITH THE WORK.

IONS AND THE SITE CONDITIONS SHALL BE VERIFIED BY THE **CONTRACTOR** AT E PRIOR TO BID SUBMITTAL, START OF SHOP DRAWINGS, START OF FION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE RED, OR CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, ACTOR SHALL NOTIFY THE OWNER & CONSULTING TEAM FOR CLARIFICATION.

DR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF EXISTING SURFACES AND AREAS, WHICH MAY BE DAMAGED AS A RESULT OF THE

ALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED AND LARGE SCALE OVER SMALL.

SPECIFIC DETAIL IS SHOWN THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT.

ACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE.)T INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL L MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT LIMITED TO, HORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION HE SITE BY THE **OWNER** OR **STRUCTURAL ENGINEER** SHALL NOT INCLUDE I OF THE ABOVE ITEMS, AND DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF NSIBILITIES FOR THE ABOVE.

HES OR EXCAVATIONS FIVE FEET (5' - 0") OR MORE IN DEPTH INTO WHICH A REQUIRED TO DESCEND, THE **CONTRACTOR** IS TO OBTAIN THE NECESSARY IM THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY, PRIOR TO THE OF A BUILDING PERMIT.

, NOTCHES, BLOCKOUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER

TE BUILDING FOOTPRINT WITH ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

F DISCREPANCIES BETWEEN NOTES & SPECIFICATIONS, THESE NOTES SHALL TAKE ICE OVER SPECIFICATIONS.

BORING, SAWCUTTING AND/OR DRILLING THROUGH THE NEW OR EXISTING RAL ELEMENTS TO BE DONE ONLY WHEN SHOWN IN DETAIL ON THE DRAWINGS OR) BY THE **ARCHITECT (STRUCTURAL ENGINEER)**, WITH THE APPROVAL OF THE O NOT CUT EXISTING REINFORCEMENT BARS IN CONCRETE COMPONENTS, WHERE ON DETAILS. IF EXISTING BARS ARE ENCOUNTERED DURING DRILLING STOP SEEK ON FROM THE ENGINEER OF RECORD AND THE OWNER. CONTRACTOR SHALL COPY OF AS-BUILTS FOR AFFECTED MEMBERS.

I DEPTH, EXTENT, AND LOCATION OF ALL FLOOR DEPRESSIONS, ELEVATED AREAS, IRREGULARITIES SHALL BE COORDINATED WITH ARCHITECTURAL OR APPLICABLE . THE STRUCTURAL DRAWINGS DO NOT NECESSARILY INDICATE ALL OF THESE

TIONS SHALL BE CONSIDERED AS A CHANGE ORDER AND BE APPROVED BY THE RIOR TO FABRICATION OR USE.

OPENING LOCATIONS & DEMOLITION PLANS, REFER TO THE **ARCH. DRAWINGS.** ABORATORY, EMPLOYED BY THE **CONTRACTOR**, SHALL BE APPROVED BY THE

T, STRUCTURAL ENGINEER AND BY THE OWNER.

AL INSPECTOR, ASSIGNED TO THE PROJECT, SHALL BE APPROVED BY THE T, STRUCTURAL ENGINEER AND BY THE OWNER.

ABV. ALT ARCH. BM. (B) OR BOTT BTWN. CBC CJP CL CLR. COL. CONC CONN CONT. D.C.W DIA. OR Ø DIM. DWG. (E) EA EMBED ELEC. ELEV. E.O.D. E.O.R. EQ. FND. FT. FTG. GA. GALV. HORIZ HS HSS LF. IN. INT. LLH LLV MAX. MECH MFR. MIN. (N) N.I.C. NTS NWC 0.C. OPNG O.H. PL QTY. REF. REINF REQ. S.A.D. SCHED. SEOR SIM. S.O.G. S.S. SHTHG STD. STAGG. STIFF. STL. STRUCT T&B THK. TYP. U.N.O. U.O.N. VERT. OR (V) W/

ABBF

ABOVE

ALTERNATE ARCHITECT(BEAM BOTTOM BETWEEN CALIFORNIA COMPLETE J CENTER LINE CLEAR COLUMN CONCRETE CONNECTIO CONTINUOU **DESIGN CRIT** DIAMETER DIMENSION DRAWING(S) EXISTING EACH EMBEDMENT ELECTRICAL ELEVATION EDGE OF DE **ENGINEER O** EQUAL FOUNDATION FOOT (OR) F FOOTING GAGE GALVANIZED HORIZONTAL HIGH STREN HOLLOW STF INSIDE FACE INCH INTERIOR LONG LEG H LONG LEG V MAXIMUM MECHANICAI MANUFACTU MINIMUM NEW NOT IN CONT NOT TO SCA! NORMAL WE ON CENTER OPENING **OPPOSITE H** PLATE (OR) QUANTITY REFERENCE EINFORCING REQUIRED SEE ARCHIT SCHEDULE STRUCTURA SIMILAR SLAB ON GR STAINLESS S SHEATHING **STANDARD** STAGGERED STIFFENER STEEL **STRUCTURA** TOP & BOTTO THICK **TYPICAL UNLESS NOTI** UNLESS OTHERWISE NOTED VERTICAL WITH

PROPRIETARY ANCHORAGES AND FASTENERS

1. ANCHORAGES: AS SPECIFIED BELOW OR APPROVED EQUIVALENTS.

A. DRILL AND EPOXY ANCHORS: HILTI RE-500 ADHESIVE SYSTEM, USING THREADED STEEL RODS CONFORMING TO ASTM F1554, GRADE 55, OR REINFORCING STEEL CONFORMING TO ASTM A615, GRADE 60, OR ASTM A706, GRADE 60, COMPLYING WITH ICC-ES EVALUATION REPORT NO. 2322. INSTALLERS TO BE CERTIFIED BY MANUFACTURER. SUBSTITUTING DRILL AND EPOXY ANCHORS FOR CAST-IN-PLACE REINFORCING EMBEDMENTS WILL NOT BE ACCEPTED.

SHOP DRAWINGS

- 1. REVIEW AND STAMP SHOP DRAWINGS PRIOR TO SUBMISSION TO ARCHITECT (STRUCTURAL ENGINEER). REVIEW FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS.
- 2. SUBMIT SHOP DRAWINGS TO ARCHITECT (STRUCTURAL ENGINEER) AS INDICATED OR SPECIFIED FOR REVIEW AND ACCEPTANCE PRIOR TO FABRICATION. REVIEW WILL BE FOR GENERAL CONFORMANCE WITH DESIGN INTENT CONVEYED IN CONTRACT DOCUMENTS.
- 3. WHEN AN ENGINEER IS REQUIRED TO SIGN AND STAMP SHOP DRAWINGS AND CALCULATIONS, ENSURE SEAL INDICATES ENGINEER AS REGISTERED IN STATE WHERE PROJECT SITE OCCURS.
- 4. SHOP DRAWINGS ARE NOT A PART OF CONTRACT DOCUMENTS. THEREFORE, ARCHITECT'S (STRUCTURAL ENGINEER'S) REVIEW DOES NOT CONSTITUTE AN AUTHORIZATION TO DEVIATE FROM TERMS AND CONDITIONS OF THE CONTRACT.
- 5. SHOP DRAWINGS WILL BE REJECTED FOR INCOMPLETENESS, LACK OF COORDINATION WITH OTHER PORTIONS OF CONTRACT DOCUMENTS, LACK OF CALCULATIONS (IF REQUIRED), OR WHERE MODIFICATIONS OR SUBSTITUTIONS ARE INDICATED WITHOUT PRIOR REVIEW PER PARAGRAPH ABOVE.
- 6. SUBMIT SHOP DRAWINGS AND CALCULATIONS TO GOVERNING CODE AUTHORITY WHEN SPECIFICALLY INDICATED OR REQUESTED.
- 7. MAINTAIN A COPY OF ALL SHOP DRAWINGS ACCEPTED BY ARCHITECT (STRUCTURAL ENGINEER) AT SITE DURING CONSTRUCTION PERIOD.
- 8. STRUCTURAL ENGINEER REQUIRES 10 WORKING DAYS AFTER RECEIPT OF SHOP DRAWINGS AND CALCULATIONS FOR PROCESSING.
- 9. ONLY TWO COPIES OF EACH STRUCTURAL SHOP DRAWING SUBMITTAL WILL BE ACCEPTED FOR REVIEW AND ONE COPY WILL BE MARKED AND RETURNED WITH COMMENTS, IF ANY. ALL OTHER ADDITIONAL COPIES SUBMITTED WILL BE RETURNED UNMARKED.

REVIATIONS	APPLICABLE	CODES
JRAL)	1. ALL WORK SHALL COMPLY WITH THE CALIFORNIA PART 2, CALIFORNIA BUILDING CODE 2022, HERE A	CODE AND RE FTER REFERI
,	2. DESIGN LOADS: ASCE 7-16, MINIMUM DESIGN LOA STRUCTURES 2010, AS AMMENDED BY CBC 2022.	DS FOR BUILD
BUILDING CODE OINT PENETRATION E	3. CONCRETE DESIGN: ACI 318-14, BUILDING CODE F CONCRETE 2011, AS AMMENDED BY THE CBC 2022	LEQUIREMENT
	4. STEEL DESIGN:	
N S TICAL WELD	 A. AISC 360-16, SPECIFICATION FOR STRUCTURAL CBC 2022. B. AISC 341-16, SEISMIC PROVISIONS FOR STRUCT AMMENDED BY THE CBC 2022. 	STEEL 2016, A ⁻ URAL STEEL I
-	DESIGN LO	ADS
	GOVERNING CODES: CBC 2022 & ASCE 7-16	
N	THE SEISMIC DESIGN CRITERIA:	
EET	RISK CATEGORY = II I _e = 1.00	(TBL. 1604.5, 0 (TBL. 1.5-2, AS
-	SITE CLASS = "D"	[PER GEOTEC
GTH RUCTURAL STEEL (OR) INNER FACE	SITE LOCATION: LATITUDE: 34° 3' 10.03" N LONGITUDE: -118° 1	4' 28.777" W
ORIZONTAL	$\begin{array}{llllllllllllllllllllllllllllllllllll$	(FIG. 1613.3.1(
	SITE AMPLIFICATION FACTORS $F_a = 1.2, F_v = N/A$	(TBL. 1613.3.3
	SITE ADJUSTED MCE SPECTRAL ACCELERATIONS $S_{MS} = 2.37 (g), S_{M1} = N/A$	(Eq. 16-37 & 1
LE IGHT CONCRETE	DESIGN SPECTRAL ACCELERATIONS $S_{DS} = 1.58 (g), S_{D1} = N/A$	(Eq. 16-39 & 16
	SEISMIC DESIGN CATEGORY = "D"	(§1613.3.5, CB
PROPERTY LINE	SEISMIC FORCE-RESISTING SYSTEM VALUES:	
	A. GROUND-SUPPORTED CANTILEVER WALLS	OR FENCE
ECTURAL DRAWING	$R = 1.25$ $\Omega_0 = 2.0$ $Cd = 2.5$	
L ENGINEER OF RECORD	WIND DESIGN CRITERIA:	
ADE	$\begin{array}{ll} \text{RISK CATEGORY} &= \text{II} \\ \text{I}_{\text{w}} &= 1.00 \end{array}$	(TBL. 1604.5, 0 (TBL. 1.5-2, AS
STEEL	DESIGN WIND SPEED, V = 95 MPH	(FIG. 1609.3(2)
	EXPOSURE CATEGORY = C	(§1609A.4.3, C
L OM		
ED OTHERWISE		

1. ALL WORK SHALL COMPLY WITH THE CALIFORNIA PART 2, CALIFORNIA BUILDING CODE 2022, HERE	A CODE AND REGULATIONS (CCR), TITLE 2 AFTER REFERED AS CBC 2022.			
 DESIGN LOADS: ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES 2010, AS AMMENDED BY CBC 2022. 				
3. CONCRETE DESIGN: ACI 318-14, BUILDING CODE CONCRETE 2011, AS AMMENDED BY THE CBC 202	REQUIREMENTS FOR STRUCTURAL 2 .			
4. STEEL DESIGN:				
A. AISC 360-16, SPECIFICATION FOR STRUCTURAL	L STEEL 2016, AS AMMENDED BY THE			
B. AISC 341-16, SEISMIC PROVISIONS FOR STRUC AMMENDED BY THE CBC 2022.	TURAL STEEL BUILDINGS 2016, AS			
DESIGN LC	DADS			
GOVERNING CODES: CBC 2022 & ASCE 7-16				
THE SEISMIC DESIGN CRITERIA:				
RISK CATEGORY = II I _e = 1.00	(TBL. 1604.5, CBC 2022) (TBL. 1.5-2, ASCE 7-16)			
SITE CLASS = "D"	[PER GEOTECHNICAL REPORT]			
SITE LOCATION: LATITUDE: 34° 3' 10.03" N LONGITUDE: -118°	14' 28.777" W			
MAPPED SPECTRAL ACCELERATION AT MCE $S_S = 1.975 (g), S_1 = 0.704 (g)$	(FIG. 1613.3.1(1) & (2), CBC 2022)			
SITE AMPLIFICATION FACTORS $F_a = 1.2, F_v = N/A$	(TBL. 1613.3.3 (1) & (2) , CBC 2022)			
SITE ADJUSTED MCE SPECTRAL ACCELERATIONS $S_{MS} = 2.37$ (g), $S_{M1} = N/A$	(Eq. 16-37 & 16-38, CBC 2022)			
DESIGN SPECTRAL ACCELERATIONS $S_{DS} = 1.58 (g), S_{D1} = N/A$	(Eq. 16-39 & 16-40, CBC 2022)			
SEISMIC DESIGN CATEGORY = "D"	(§1613.3.5, CBC 2022)			
SEISMIC FORCE-RESISTING SYSTEM VALUES:				
A. GROUND-SUPPORTED CANTILEVER WALLS	S OR FENCE ASCE 7-16 Table 15.4-2			
$R = 1.25$ $\Omega_0 = 2.0$ $Cd = 2.5$				
WIND DESIGN CRITERIA:				

RISK CATEGORY	= II = 1.00	(TBL. 1604.5, CBC 2022) (TBL. 1.5-2, ASCE 7-16)
DESIGN WIND SPEED, V	= 95 MPH	(FIG. 1609.3(2), CBC 2022)
EXPOSURE CATEGORY	= C	(§1609A.4.3, CBC 2022)

STRUCTURAL STEEL (CONTINUED)

10. PROTECTION

- A. EXPOSED STEEL TO WEATHER: ALL EXPOSED STEEL TO WEATHER SHALL BE PROTECTED BY HOT- DIPPED GALVANIZATION. ALL GALVANIZATION SHALL BE HOT-GALVANIZING IN ACCORDANCE WITH ASTM A123/A123M-02
- 11. THE INSPECTION AND TESTING STRUCTURAL STEEL SHALL COMPLY WITH CHAPTER N, AISC 360-16, **QUALITY CONTROL AND QUALITY ASSURANCE.** INSPECTION AND TESTING OF STEEL MEMBERS PART OF THE LATERAL FORCE RESISTING SYSTEM (LFRS) SHALL ALSO COMPLY CHAPTER J, ASIC 341-16, QUALITY CONTROL AND QUALITY ASSURANCE.
- A. QUALITY CONTROL (QC), AS SPECIFIED HERE IN, SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR.
- THE FABRICATOR AND ERECTOR SHALL ESTABLISH AND MAINTAIN QUALITY CONTROL PROCEDURES AND PERFORM INSPECTIONS TO ENSURE THAT THEIR WORK IS PERFORMED IN ACCORDANCE WITH CH. N, ASIC 360-16 & CH. J, AISC 341-16.
- B. QUALITY ASSURANCE (QA), AS SPECIFIED HERE IN, SHALL BE PROVIDED BY OTHERS.
- C. INSPECTOR QUALIFICATIONS:
- i. QUALITY CONTROL INSPECTOR (QCI) FOR WELDING SHALL BE QUALIFIED IN ACCORDANCE WITH EITHER OF THE FOLLOWING:
- 1. ASSOCIATE WELDING INSPECTOR (AWI) OR HIGHER AS DEFINED IN AWS B5.1, STANDARD FOR THE QUALIFICATION OF WELDING INSPECTORS, OR
- 2. QUALIFIED UNDER THE PROVISIONS OF AWS D1.1/D1.1M SUBCLAUSE 6.1.4.
- ii. QUALITY CONTROL INSPECTOR (QCI) FOR BOLTING INSPECTION PERSONNEL SHALL BE QUALIFIED ON THE BASIS OF DOCUMENTED TRAINING AND EXPERIENCE IN STRUCTURAL BOLTING INSPECTION.
- iii. QUALITY ASSURANCE INSPECTOR (QAI) FOR WELDING SHALL BE QUALIFIED IN ACCORDANCE WITH EITHER OF THE FOLLOWING:
- 1. WELDING INSPECTORS (WIs) OR SENIOR WELDING INSPECTORS (SWIs), AS DEFINED IN AWS B5.1, STANDARD FOR QUALIFICATION OF WELDING INSPECTORS, EXCEPT ASSOCIATE WELDING INSPECTORS (AWIs) ARE PERMITTED TO BE USED UNDER THE DIRECT SUPERVISION OF WIS, WHO ARE ON THE PREMISES AND AVAILABLE WHEN WELDING INSPECTION IS BEING CONDUCTED, OR
- 2. QUALIFIED UNDER THE PROVISIONS OF AWS D1.1/D1.1M SUBCLAUSE 6.1.4
- iv. QUALITY ASSURANCE INSPECTOR (QAI) FOR BOLTING INSPECTION PERSONNEL SHALL BE QUALIFIED ON THE BASIS OF DOCUMENTED TRAINING AND EXPERIENCE IN STRUCTURAL BOLTING INSPECTION.
- D. NONDESTRUCTIVE TESTING (NDT) QUALIFICATIONS: NONDESTRUCTIVE TESTING PERSONNEL FOR NDT OTHER THAN VISUAL, SHALL BE QUALIFIED IN ACCORDANCE WITH THEIR EMPLOYER'S WRITTEN PRACTICE, WHICH SHALL MEET OR EXCEED THE CRITERIA OF AWS D1.1/D1.1M STRUCTURAL WELDING CODE - STEEL, SUBCLAUSE 6.14.6 AND:
- AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING (ASNT) SNT-TC-1A, RECOMMENDED PRACTICE FOR QUALIFICATION AND CERTIFICATION OF NONDESTRUCTIVE TESTING PERSONNEL. OR
- ii. ASNT CP-189, STANDARD FOR THE QUALIFICATION AND CERTIFICATION OF NONDESTRUCTIVE TESTING PERSONNEL.
- E. AS A MINIMUM, WELDING INSPECTION TASKS SHALL BE IN ACCORDANCE WITH AISC 360-10, TABLES N5.4-1, N5.4-2, & N5.4-3, WHERE WELDING IS PART OF THE LATERAL FORCE RESISTING SYSTEM (LFRS). ADDITIONAL MINIMUM TASKS SHALL BE IN ACCORDANCE WITH AISC 341-10, TABLES J6-1, J6-2, & J6-3.
- 12. HEADED STUDS AND AUTOMATIC WELDED DOWELS SHOWN ON PLANS OR DETAILS SHALL BE BY NELSON STUD WELDING, INC., PER ICC ESR-2856 AND ICC ESR-2907, RESPECTIVELY, STUDS SHALL HAVE FLUXED ENDS AND BE AUTOMATICALLY END-WELDED WITH SUITABLE EQUIPMENT (NO FILLET WELDING OF STUDS PERMITTED. AT SPACING INDICATED ON THE PLANS OR DETAILS. WELDING OF STUDS SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1 AND AWS C5.4. HEADED STUDS AND AUTOMATIC WELDED DOWELS BY OTHER MANUFACTURERS MAY BE SUBSTITUTED PROVIDED THEY ARE OF EQUIVALENT CAPACITY FOR THE INTENDED APPLICATION AND HAVE CURRENT ICC APPROVAL. ALL WELDED STUDS SHALL COMPLY WITH ASTM A108.

vii. APPLICABLE WELDING PROCESS

- BE USED.

- 1. ELECTRODE DIAMETER
- 3. VOLTAGE (FOR ALL PROCESSES)
- - SECTION 4.6 2).

 - ELECTRODES ONLY.
 - CITY OF LOS ANGELES.
 - J. WELDS EXPOSED TO VIEW:

 - MORE STRINGENT

 - 8. QUALITY CONTROL

 - **B.** LOW HYDROGEN ELECTRODES E70XX FOR STRUCTURAL STEEL

 - MANUAL FIFTEEN EDITION.
 - FILLET WELD AFTER FLUSH FILL.

STRUCTURAL STEEL (CONTINUED)

viii. POSITION OF WELDING

ix. LIST OF FILLER METAL PER APPLICABLE WELDING STANDARD AND ELECTRODE SPECIFICATION AND CLASSIFICATION. INCLUDE DETAILS SHOWING SHIELDING MATERIAL TO

x. MINIMUM PREHEAT REQUIREMENTS. INTERPASS TEMPERATURES AND POST WELD HEAT TREATMENT. MINIMUM SPECIFIED PREHEAT SHALL MEET REQUIREMENTS OF AWS D1.1. TABLE 4.3. AND AISC ASD SECTION J2-7 REQUIREMENTS FOR JUMBO SECTIONS.

xi. LIST OF APPLICABLE ELECTRICAL CHARACTERISTICS FOR PROCESS EMPLOYED. CLEARLY INDICATE SPECIFIC VALUES REQUIRED FOR EACH WELDING PASS. THESE ELECTRICAL CHARACTERISTICS SHALL INCLUDE AL A MINIMUM THE FOLLOWING:

2. TYPE OF CURRENT AND ACCEPTABLE RANGES OF CURRENT MEASURED IN AMPERAGE. FOR WIRE FEED PROCESSES, INDICATE MANUFACTURER'S RECOMMENDED MELT-OFF RATE, DEPOSITION RATE, AND WIRE FEED SPEED.

4. ACTUAL FIELD CONDITION TRAVEL SPEED AND MANUFACTURE'S DATA FOR TRAVEL SPEED.

5. ELECTRODE EXTENSION (STICK OUT) FOR WIRE FEED PROCESSES.

6. AMPERAGE, VOLTAGE AND ELECTRODE EXTENSION (AS APPLICABLE) SHALL BE WITHIN FILLER METAL MANUFACTURER'S RECOMMENDATIONS (COMPARE TO AWS D1 1

7. ELECTRODE MANUFACTURER'S TECHNICAL INFORMATION, WITH IDENTIFICATION NUMBER LISTED. AND WELDING PARAMETER RECOMMENDATIONS.

F. WELDING ELECTRODES (FILLER METAL): E70XX (70 KSI), UNLESS INDICATED OTHERWISE PROVIDE FILTER METAL WITH CHARPY V-NOTCH TOUGHNESS OF 20 FT/LBS AVERAGE AT 0 DEGREES FAHRENHEIT AT COMPLETE PENETRATION GROOVE WELDS. USE LOW-HYDROGEN

G. WELDING TOUGHNESS REQUIREMENTS: CERTIFY CONFORMANCE TO CHARPY V-NOTCH TOUGHNESS REQUIREMENTS WITH TESTS BY AN INDEPENDENT TESTING LABORATORY FOR EACH AWS CLASSIFICATION, MANUFACTURER AND TRADE NAME. TESTING PROCEDURES SHALL BE IN ACCORDANCE TO APPLICABLE WELDING STANDARD AND 2016 AISC SEISMIC PROVISIONS, H. APPROVED FABRICATORS: PERFORM SHOP WELDS BY FABRICATORS APPROVED BY THE

i. WELDER QUALIFICATION: WELDERS, REGARDLESS IF WORK IS PERFORMED IN SHOP OR IN FIELD, SHALL BE QUALIFIED FOR THE WORK THEY WILL BE DOING AND SHALL HAVE CERTIFICATIONS CURRENT AND ACCEPTABLE TO STRUCTURAL

i. FACES OF FILLET WELDS EXPOSED TO VIEW SHALL HAVE AS-WELDED SURFACES THAT ARE REASONABLY SMOOTH AND UNIFORM. NO FINISHING OR GRINDING SHALL BE REQUIRED. EXCEPT WHERE CLEARANCES OR FIT OF OTHER ITEMS MAY SO NECESSITATE.

ii. PARTIAL AND FULL PENETRATION WELDS EXPOSED TO VIEW SHALL BE GROUND SMOOTH AND FLUSH WITH FINISH SURFACE OF STEEL FILL HOLES WITH WELD METAL OR BODY SOLDER AND SMOOTH BY GRINDING OR FILING.

K. GROOVE PREPARATION: CLEAN GROOVE PREPARATION THERMAL CUTS BY GRINDING.

L. TERMINATION OF WELDS: TERMINATE AT JOINT ENDS IN A MANNER THAT ENSURES SOUND WELDS. USE EXTENSION BARS AND RUN-OFF TABS WHENEVER NECESSARY.

M. HAND-HELD CALIBRATED AMP AND VOLT METERS: TO BE USED BY FABRICATOR, ERECTOR AND INSPECTORS TO ASSURE PROPER AMPERAGE AND VOLTAGE OF WELDING PROCESS. MEASURE AMPERAGE AND VOLTAGE ARC. VERIFY TRAVEL SPEED AND ELECTRODE STICK-OUT IN COMPLIANCE WITH FLECTRODE MANUFACTURER'S RECOMMENDATIONS AND WITH APPROVED WELDING PROCEDURE SPECIFICATION (WPS).

N. STORAGE OF ELECTRODES: ADHERE TO SECTION 4.5.2 OF AWS D1.1-17.

O. WELD EACH FLANGE OF MOMENT FRAME BEAM TO COLUMN CONNECTIONS IN ONE CONTINUOUS PROCESS WITHOUT COOLING BELOW PRE-HEAT TEMPERATURE.

P. WELDING OF ASTM A513 MATERIALS: PERFORM ACCORDING TO REQUIREMENTS OF LATEST EDITION OF AWS STANDARD. STRUCTURAL DRAWINGS AND SPECIFICATIONS. WHICHEVER IS

Q. MINIMUM FILLET WELD SIZE. WHERE MINIMUM FILLET WELD SIZE, AS STIPULATED BY AISC SECTION J2 AND TABLE J2.4, EXCEEDS FILLET WELD SIZE INDICATED ON STRUCTURAL DRAWINGS, USE AISC STIPULATED SIZE.

R. MINIMUM GROOVE OR BUTT WELD SIZE: PROVIDE COMPLETE PENETRATION UNLESS INDICATED OTHERWISE.

S. WELD LENGTH: LENGTH OF WELDS SHOWN ARE NET EFFECTIVE LENGTHS. WHERE LENGTH OF WELD IS NOT INDICATED. PROVIDE WELD FULL LENGTH OF JOINT.

T. DEMAND CRITICAL WELDS (D.C.W): WELDS DESIGNATED AS DEMAND CRITICAL SHALL COMPLY WITH §A.3.4B, AISC 341-10. WELDS DESIGNATED AS DEMAND CRITICAL SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREMENTS SPECIFIED IN AWS D1.8/D1.8M CLAUSE 6.3, WITH A CHARPY V-NOTCH (CVN) TOUGHNESS OF 20 FT-LBS @ 0° F & 40 FT-LBS @ 70° F.

7. SHOP DRAWINGS: SUBMIT TO /OWNER FOR REVIEW. INCLUDE SEQUENCE OF ERECTION PROCEDURES FROM APPROVED WELDING PROCEDURE SPECIFICATION (WPS)

A. ALL WELDING SHALL CONFORM TO AWS AND 2022 CBC.

E90XX FOR REINFORCING BARS

C. CONTINUOUS INSPECTION BY A REGISTERED DEPUTY IS REQUIRED FOR ALL FIELD WELDING. **D.** WHERE FILLET WELD SIZES ARE NOT INDICATED ON THE DRAWINGS, PROVIDE MINIMUM SIZE

FILLET WELDS PER TABLE J2.4 OF SPECIFICATION FOR STRUCTURAL STEEL CONSTRUCTION

E. FLARE GROOVE WELDS SHALL BE FILLED FLUSH TO THE SURFACE OF THE BAR OR 90° BEND IN A FORMED SECTION. FILLET WELD DESIGNATIONS IN THESE SITUATIONS INDICATE SIZE OF

9. SPECIAL REQUIREMENTS FOR STRUCTURAL STEEL:

WELDING AND SPECIAL INSPECTION REQUIREMENTS OF AWS D1.1/1.1M AS INCORPORATED INTO AND MODIFIED BY THE 2022 CALIFORNIA BUILDING CODE SHALL APPLY.

A. SPECIAL VISUAL INSPECTION SHALL BE CONTINUOUS THROUGHOUT THE APPROVED WELDING PROCEDURE FROM FIT-UP THROUGH WELD COMPLETION.

B. THE FABRICATOR SHALL PROVIDE, AS PART OF SHOP DRAWING SUBMITTAL, WELDING PROCEDURE SPECIFICATIONS (WPS) CONTAINING THE INFORMATION REQUIRED BY AWS D1.1/1.1M. EACH WPS SHALL BE ACCEPTABLE TO THE STRUCTURAL ENGINEER, FURNISHED TO THE BUILDING OFFICIAL AND SHALL BE PART OF THE BASIS FOR SPECIAL VISUAL INSPECTION.

C. EACH WPS SHALL LIST THE WELDING POSITION, ELECTRODE SIZE, TYPE, TRAVEL SPEED, STICKOUT, ACCEPTABLE LIMITS OF VOLTAGE AND AMPERAGE, BEAD SIZE, WELD SEQUENCE. STRESS RELIEVING AND OTHER PERTINENT DATA.

STRUCTURAL STEEL

- 1. DETAILING, FABRICATION, AND ERECTION: AISC "DESIGN STANDARD FOR LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", AISC "DESIGN STANDARD FOR SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN" AND AISC "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS" EXCEPT AS AMENDED IN APPLICABLE CODE CHAPTER 22 AND AS MODIFIED BY SUPPLEMENTAL REQUIREMENTS HEREIN.
- 2. STRUCTURAL STEEL: PROVIDE READILY IDENTIFIABLE STRUCTURAL STEEL IN COMPLIANCE WITH APPLICABLE CODE SECTION 2203 FURNISH STRUCTURAL STEEL COMPLYING WITH APPLICABLE CODE STANDARD 22-1 AND THE FOLLOWING ASTM STANDARD SPECIFICATIONS, UNLESS NOTED OTHERWISE.
- A. STRUCTURAL STEEL (U.N.O.): ASTM A992, GRADE 55 B. ANGLES AND CHANNELS: ASTM A36 C. PLATES: ASTM A572. GRADE 50
- D. PIPES: E. TUBES:
- F. ANCHOR BOLTS:
- 3. HOLES FOR BOLTED CONNECTIONS AND ANCHOR BOLTS: AISC "STANDARD" HOLES LIMITED TO 1/16-INCH LARGER IN DIAMETER THAN NOMINAL BOLT DIAMETER, UNLESS NOTED OTHERWISE.
- 4. HIGH STRENGTH BOLTS, NUTS AND WASHERS: AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS." PROVIDE SPECIAL INSPECTION WHERE SLIP CRITICAL BOLTS ARE SPECIFIED ON THE DRAWINGS.
- A. HARDENED WASHERS: ASTM A436, UNDER NUTS EXCEPT WHERE PLATE WASHERS ARE USED. PROVIDE BEVELED WASHERS WHERE JOINT FACE SLOPE IS GREATER THAN 1:20.
- **B. TIGHTENING:** SNUG TIGHT FOR ALL HIGH STRENGTH BOLTS EXCEPT TIGHTEN A325-SC AND A490-SC BOLTS TO AT LEAST THE MINIMUM PRETENSION ACCORDING TO AISC SPECIFICATION.
- C. ANCHOR BOLTS: ASTM F1554. GRADE 55. UNLESS NOTED OTHERWISE.
- i. WASHERS **ASTM A36**, UNDER NUTS, 3-1/2-INCH SQUARE WASHERS OF THICKNESS 0.375 TIMES NOMINAL DIAMETER OF ANCHOR BOLTS. WELD WASHERS TO BASE PLATE WITH 5/16-INCH FILLET WELD ALL AROUND.

5. WELDING:

- **A. APPLICABLE WELDING STANDARD:** APPLICABLE CODE AND LATEST ADOPTED EDITION OF **AWS** D1.1/1.1M INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
- i. SECTION 6.3 FOR QUALIFIED WELDERS.
- **ii.** SECTION 4.2 AND AISC LRFD SPECIFICATION SECTION J2-7 FOR JUMBO SECTIONS FOR PREHEAT AND INTERPASS TEMPERATURE REQUIREMENTS. iii. SECTION 4, PARTS 8C AND 8D TECHNIQUE FOR ARC WELDING. iv. SECTION 6 AND SECTION 8. PART D FOR INSPECTION
- B. PRE-QUALIFIED AND NON PRE-QUALIFIED WELDS: WELDS SHALL BE PRE-QUALIFIED IN COMPLIANCE WITH APPLICABLE WELDING STANDARD. WHERE NON PRE-QUALIFIED WELDS ARE TO BE USED, QUALIFY BY TEST AND PROCEDURE QUALIFICATION TEST RECORD COMPLYING WITH APPLICABLE WELDING STANDARD.
- C. WORK PERFORMED BY WELDERS AND INSPECTORS: ADHERE TO APPROVED WELDING PROCEDURE SPECIFICATION (WPS) EACH WELDER AND INSPECTOR SHALL RETAIN A COPY OF WPS.
- **D. PRE-CONSTRUCTION MEETING:** CONDUCT TO INCLUDE FABRICATOR, ERECTOR, CONTRACTOR AND INSPECTORS TO DISCUSS WELDING PROCEDURE SPECIFICATION (WPS). E. WELDING PROCEDURE SPECIFICATION (WPS): FABRICATOR/ERECTOR TO DEVELOP WPS IN COMPLIANCE WITH APPLICABLE WELDING STANDARD. SUBMIT TO FOR APPROVAL PRIOR TO

FABRICATION. WPS SUBMITTAL TO INCLUDE THE FOLLOWING:

- i. WELDING MANUFACTURERS.
- **II.** INFORMATION REQUIRED BY APPLICABLE CODE. CONTRACT DOCUMENTS AND ANY OTHER INFORMATION NECESSARY TO PRODUCE WELDS THAT ARE IN COMPLIANCE WITH APPLICABLE WEI DING STANDARD
- **iii.** DETAILED SEQUENCE OF WELD SKETCHES ADDRESSING EFFECTS OF WELDING HEAT FOR WELDS AT JOINTS AND WITHIN SEISMIC FRAME ASSEMBLIES AS A WHOLE. PLAN SEQUENCE OF ERECTION AND WELDING TO MINIMIZE LOCKED IN STRESSES AND DISTORTION CONSIDERING EFFECTS OF WELDING HEAT. PROCEDURES SUBMITTED SHALL RESULT IN COMPLETED CONNECTIONS WHICH COMPLY WITH DESIGN INTENT OF STRUCTURAL DRAWINGS.
- iv. WELDING PARAMETERS RECOMMENDED BY ELECTRODE MANUFACTURER.
- v. LISTING OF APPLICABLE BASE METAL TYPES AND THICKNESSES.
- vi. WELDING JOINT SKETCHES INCLUDING JOINT TYPE, WELD TYPE, JOINT GEOMETRY, AND APPLICABLE DIMENSIONS INDIVIDUAL WELD PASSES SHALL BE IDENTIFIED IN SKETCHES AND NUMBERED TO IDENTIFY THE SEQUENCE OF THEIR DEPOSITION. SKETCHES SHALL IDENTIFY THE MAXIMUM LAYER THICKNESSES AND BEAD WIDTHS. IN NO CASE SHALL LAYER THICKNESS EXCEED 1/4-INCH, NOR SHALL MAXIMUM BEAD WIDTH EXCEED 5/8-INCH.

- ASTM A53, GRADE B (35 KSI) ASTM A500, GRADE B (46 KSI) **ASTM F1554, GRADE 55**

- REINFORCEMENT 1. REINFORCING STEEL:
- A. ALL BARS UNLESS INDICATED OTHERWISE: SHALL BE ASTM A615, GRADE 60
- **B. BARS TO BE WELDED:** ASTM A706, Grade 60
- C. ADDITIONAL REQUIREMENTS FOR BARS, EXCLUDING TIES, IN DUCTILE MOMENT RESISTING FRAMES AND BOUNDARY ELEMENTS IN SHEAR WALLS: NO ADDITIONAL REQUIREMENTS IF ASTM A706, GRADE 60 BARS USED. ASTM A615, GRADE 60 BARS MAY BE PERMITTED PROVIDED ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI (RETESTS SHALL NOT EXCEED THIS VALUE BY MORE THAN AN ADDITIONAL 3,000 PSI) AND RATIO OF ACTUAL ULTIMATE TENSILE STRESS TO ACTUAL YIELD STRESS IS NOT LESS THAN 1.25.
- 2. SHOP DRAWINGS: ACI 315, PART B. SHOW REINFORCING STEEL PLACEMENT INCLUDING SIZES, QUANTITIES, SPACING, CLEARANCES, SPLICE LOCATIONS, LAP LENGTHS, AND CONCRETE COVERAGE AND SUBMIT TO ARCHITECT (STRUCTURAL ENGINEER). PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO DEVELOPING SHOP DRAWINGS IF INSUFFICIENT CLEAR DISTANCES BETWEEN REINFORCING STEEL AND OTHER CONGESTION IS ENCOUNTERED. NOTIFY STRUCTURAL ENGINEER OF ADJUSTMENTS MADE FROM APPROVED CONTRACT DOCUMENTS WHICH ARE INDICATED ON ACCEPTED SHOP DRAWINGS THAT FACILITATE FIELD PLACEMENT OF REINFORCING STEEL AND CONCRETE.
- **3. LAP SPLICES:** PROVIDE CLASS B SPLICES UNLESS INDICATED OTHERWISE. SPLICE #5 BARS AND LARGER ONLY AT LOCATIONS INDICATED. IF ADDITIONAL SPLICE LOCATIONS ARE PROPOSED, PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO DEVELOPING SHOP DRAWINGS.
- A. SPLICES IN WALLS: LOCATE SPLICES IN HORIZONTAL BARS AT WELL-STAGGERED LOCATIONS. DO NOT SPLICE VERTICAL BARS EXCEPT AT HORIZONTAL SUPPORTS SUCH AS FLOOR AND ROOF DIAPHRAGMS.
- 4. MINIMUM CONCRETE COVERAGE: PLACE BARS AS NEAR TO CONCRETE SURFACE AS THE FOLLOWING MINIMUM COVERAGE PERMIT, UNLESS NOTED OTHERWISE:
- **A.** SLAB ON GRADE **B.** SLAB SUPPORTING EARTH ABOVE
- C. FORMED CONCRETE IN CONTACT WITH EARTH
- D. CONCRETE POURED AGAINST EARTH (UNFORMED)
- **E.** WALLS ABOVE GRADE, EXPOSED TO WEATHER **F.** WALLS ABOVE GRADE, NOT EXPOSED TO WEATHER
- **G.** COLUMNS (CLEAR TO FACE OF TIES)
- **H.** BEAMS (CLEAR TO FACE OF TIES) I. STRUCTURAL SLABS (TOP AND BOTTOM)
- 5. DOWELS AT CONSTRUCTION JOINTS: PROVIDE DOWELS MATCHING SIZE AND QUANTITY OF REINFORCING STEEL INTERRUPTED AT CONSTRUCTION JOINTS, UNLESS DETAILED OTHERWISE.
- 6. PLACEMENT OF BARS IN WALLS: PLACE VERTICAL BARS CLOSEST TO WALL SURFACES AT CURTAINS CONTAINING VERTICAL AND HORIZONTAL BARS OF THE SAME SIZE. IN CURTAINS WHICH VERTICAL AND HORIZONTAL BARS ARE OF DIFFERENT SIZES OR SPACING, PLACE LAYER WITH MOST STEEL AREA CLOSEST TO NEAR WALL SURFACE.
- 8. BARS TERMINATING AT WALLS, COLUMNS, BEAMS, AND FOUNDATIONS: EXTEND BARS TO WITHIN 2 INCHES (3 INCHES AT CONCRETE POURED AGAINST EARTH) OF THE FACE OF WALL, COLUMN, BEAM, OR FOUNDATION AND PROVIDE STANDARD ACI 90-DEGREE HOOK UNLESS DETAILED OTHERWISE
- 9. BARS INTERRUPTED BY STRUCTURAL STEEL: EXTEND BARS TO WITHIN 2 INCHES OF STEEL FACE AND PROVIDE STANDARD ACI 90-DEGREE HOOK UNLESS DETAILED OTHERWISE.
- **10.WELDING:** AWS D1.4. EXCEPT AS MODIFIED BY APPLICABLE CODE STANDARD 19-1.
- A. ACCEPTABLE REINFORCING STEEL FOR WELDING: ASTM A706. IF WELDING REINFORCING STEEL OTHER THAN A706 IS DESIRED. SUBMIT PROPOSED PROCEDURE. INDICATING CONFORMANCE TO APPLICABLE CODE AND REQUIREMENTS OF GOVERNING CODE AUTHORITY, TO ARCHITECT (STRUCTURAL ENGINEER) FOR ACCEPTANCE AND TO GOVERNING CODE AUTHORITY FOR APPROVAL PRIOR TO EXECUTION.
- **B. WELDER CERTIFICATION:** AWS D1.1 2015. AND CITY OF LOS ANGELES BUILDING CODE ENGINEER (LADBS 2022)
- 11. BENDING: BEND COLD UNLESS OTHERWISE ACCEPTED BY ARCHITECT (STRUCTURAL ENGINEER). DO NOT FIELD-BEND REINFORCING STEEL BARS EMBEDDED IN CONCRETE UNLESS OTHERWISE ACCEPTED IN WRITING BY ARCHITECT (STRUCTURAL ENGINEER).

LOCATE AT CENTER OF SLAB

2 INCHES

3 INCHES

2 INCHES

1-1/2 INCHES

1-1/2 INCHES

¾ INCH

1 INCH

1-1/2 INCHES FROM TOP

CONSULTANT:

APPROVAL:

	FU LA MALL FENCING PHASE 1			210 N. LOS ANGELES LOS ANGELES CA, 90012
Date	9/25/2023	1 1		- NSTRUCTION TO ORS OR OMISSIONS DR THOROUGHLY S OF COUGHLY C OF COUGHLY C OF COUGHLY C OF COUGHLY INSTRUCTONS LL BE RECEIVED BECONTRACTORS SIBLE FOR ANY T FOLLOWED.
Description	PLAN CHECK SUBMITTAL -			- IT IS THE CLIENTS RESPONSIBILITY PRIOR TO OR DURING CO NOTIFY THE ARCHITECT IN WRITING OF ANY PERCEIVED ERR IN THE PLANS AND SPECIFICATIONS OF WHICH A CONTRACT KNOWLEDGEABLE WITH THE BULLIDING COBES AND METHOD KNOWLEDGEABLE WITH THE BULLIDING COBES AND METHOD CONSTRUCTION SHOULD REASONABLY BE AWARE. WRITTEP ADDRESSING SUCH PERCEIVED ERRORS OR OMISSIONS SHA FROM THE ARCHITECT PRIOR TO THE CLIENT OR CLIENT SUL PROM THE ARCHITECT PRIOR TO THE CLIENT WILL BE RESPON DEFECTSI IN CONSTRUCTION FITHESE PROCEDURES ARE NOR.
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	GENERAL NOTES			

- e) CONCRETE BASEMENT/RETAINING WALLS/ PLACEMENT OF REINFORCEMENT

STRUCTURAL OBSERVATION

1. FIELD OBSERVATION SHALL NOT BE CONSTRUED AS A WAIVER OF INSPECTION AND SPECIAL INSPECTION REQUIREMENT. NOR SHALL IT BE CONSTRUED AS AN APPROVAL OF ANY UNDETECTED NON CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISION OF THE BUILDING CODE.

2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADVISE THE ENGINEER OR OTHER CONSULTANT CONDUCTING OBSERVATION SITE VISITS OF ANY KNOWN DEFICIENCIES NOT NOTED BY THE CONSULTANT FOR PROMPT CORRECTION.

3. THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE FOLLOWING SIGNIFICANT CONSTRUCTION STAGES REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER:

CONSTRUCTION STAGE ELEMENTS/CONNECTIONS TO BE OBSERVED

a) PRIOR TO POURING CONCRETE FOOTING / REINFORCING STEEL AND LOCATION

b) PRIOR TO COVER STRUCTURAL STEEL / STRUCTURAL STEEL COLUMN, BEAM & CONNECTION c) PRIOR TO POURING CONCRETE ON METAL DECKING / FLOOR & ROOF DIAPHRAGM NAILING

d) MOMENT CONNECTION / WELDING/BOLTING

SPECIAL INSPECTION

- 1. ALL TESTING & INSPECTION SHALL COMPLY WITH CHAPTER 17 OF THE CBC 2022.
- 2. SPECIAL INSPECTOR QUALIFICATIONS: THE SPECIAL INSPECTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING HIS OR HER COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING. EXPERIENCE OR TRAINING SHALL BE CONSIDERED RELEVANT WHEN THE DOCUMENTED EXPERIENCE OR TRAINING IS RELATED IN COMPLEXITY TO THE SAME TYPE OF SPECIAL INSPECTION ACTIVITIES FOR PROJECTS OF SIMILAR COMPLEXITY AND MERETIAL QUALITIES. THESE REQUIREMENTS ARE IN ADDITION TO QUALIFICATIONS SPECIFIED IN CBC 2022.
- 3. THE INSPECTION AND TESTING STRUCTURAL STEEL SHALL COMPLY WITH CHAPTER N, AISC 360-10, QUALITY CONTROL AND QUALITY ASSURANCE. INSPECTION AND TESTING OF STEEL MEMBERS PART OF THE LATERAL FORCE RESISTING SYSTEM (LFRS) SHALL ALSO COMPLY CHAPTER J, ASIC 341-10, QUALITY CONTROL AND QUALITY ASSURANCE.
- 4. SPECIAL INSPECTION SHALL BE PROVIDED FOR THE FOLLOWING INDICATED TASKS:

TABLE 1705.3, CBC 2022 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION					
REQUIRED	CONTINUOUS / PERIODIC	CONTINUOUS/ PERIODIC	REFERENCE STANDARD	IBC REFERENCE	
REQUIRED	1. INSPECTION OF REINFORCING STEEL,	PERIODIC	ACI 318: 3.5, 7.1-7.7	1910.4	
-	2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2b.	-	AWS D1.4 ACI 318: 3.5.2	-	
REQUIRED	3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	PERIODIC	ACI 318: 8.1.3, 21.2.8	1908.5, 1909.1	
REQUIRED (AS OCCURS)	4. INSPECTION OF ANCHORS POST- INSTALLED IN HARDENED CONCRETE MEMBERS.	PERIODIC	ACI 318: 3.8.6, 8.1.3, 21.2.8	1909.1	
REQUIRED	5. VERIFYING USE OF REQUIRED DESIGN MIX.	PERIODIC	ACI 318: CH 4, 5.2-5.4	1904.2, 1910.2, 1910.3	
REQUIRED	6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10	
REQUIRED	7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8	
REQUIRED	8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 5.11-5.13	1910.9	
-	 9. INSPECTION OF PRESTRESSED CONCRETE: A. APPLICATION OF PRESTRESSING FORCES. B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC FORCE-RESISTING SYSTEM. 	CONTINUOUS	ACI 318: 18.20, 18.18.4	-	
-	10.ERECTION OF PRECAST CONCRETE MEMBERS.	PERIODIC	ACI 318: CH 16	-	
-	11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSION CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	ACI 318: 6.2	-	
REQUIRED	12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 6.1.1	-	

TABLE 1705.6, CBC 2022 **REQUIRED VERIFICATION AND INSPECTION OF SOILS**

REQUIRED	CONTINUOUS / PERIODIC	CONTINUOUS / PERIODIC	REFERENCE STANDARD	IBC REFERENCE
REQUIRED	1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	-	-
REQUIRED	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC	-	-
REQUIRED	3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC	-	-
REQUIRED	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS	-	-
REQUIRED	5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC	-	-

5. METAL DECK REQUIRES CONT. INSPECTION FOR WELDING TO STRUCTURAL MEMBERS

6. FOR STRUCTURAL STEEL, HIGH STRENGTH BOLTS AND WELDING INSPECTION, REFER TO STRUCTURAL STEEL NOTES ON SHEET **S0.04, AISC 360-16, CHAPTER "N"** AND **341-16 CHAPTER "J"**

7. SPECIAL INSPECTION REQUIRED FOR NON- SHRINK GROUT

TESTING & INSPECTION

- 1. ALL TESTING & INSPECTION SHALL COMPLY WITH CHAPTER 17 OF THE CBC 2022.
- 2. SPECIAL INSPECTOR QUALIFICATIONS: THE SPECIAL INSPECTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING HIS OR HER COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING. EXPERIENCE OR TRAINING SHALL BE CONSIDERED RELEVANT WHEN THE DOCUMENTED EXPERIENCE OR TRAINING IS RELATED IN COMPLEXITY TO THE SAME TYPE OF SPECIAL INSPECTION ACTIVITIES FOR PROJECTS OF SIMILAR COMPLEXITY AND MERETIAL QUALITIES. THESE REQUIREMENTS ARE IN ADDITION TO QUALIFICATIONS SPECIFIED IN CBC 2022.
- 3. THE INSPECTION AND TESTING STRUCTURAL STEEL SHALL COMPLY WITH CHAPTER N, AISC 360-10. QUALITY CONTROL AND QUALITY ASSURANCE. INSPECTION AND TESTING OF STEEL MEMBERS PART OF THE LATERAL FORCE RESISTING SYSTEM (LFRS) SHALL ALSO COMPLY CHAPTER J, ASIC 341-10, QUALITY CONTROL AND QUALITY ASSURANCE.
- 4. CONTRACTOR RESPONSIBILITY: EACH CONTRACTOR OR SUB-CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE WIND AND/OR SEISMIC RESISTING SYSTEM THAT IS LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK REQUIRING SPECIAL INSPECTION. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
- 5. SPECIAL INSPECTION SHALL BE PROVIDED FOR THE FOLLOWING INDICATED TASKS:
- 6. WELDING INSPECTION AND TESTING
- A. CONTINUOUS VISUAL INSPECTION IS REQUIRED FOR ALL MOMENT CONNECTION WELDING. INSPECTOR(S) SHALL BE AWS CERTIFIED WELDING INSPECTORS (CWI) OR SENIOR CERTIFIED WELDING INSPECTORS (SCWI) AS DEFINED IN AWS QC1.
- B. ALL C.J.P. FLANGE AND CONTINUITY PLATE WELDS SHALL BE TESTED BY ULTRASONIC TESTING AND MAGNETIC PARTICLE TESTING OVER THE FULL LENGTH OF THE JOINT.
- C. ALL FILLET WELDS SHALL BE MAGNETIC PARTICLE TESTED OVER THE FULL LENGTH OF THE JOINT.
- D. ALL COLUMNS AT WELDED MOMENT CONNECTIONS WITH FLANGES 1-1/2 INCHES THICK AND THICKER SHALL BE ULTRASONICALLY TESTED IN ACCORDANCE WITH ASTM A898 PRIOR TO WELDING FOR EVIDENCE OF LAMINATIONS, INCLUSIONS, OR OTHER DISCONTINUITIES. THE AREA TO BE TESTED IS A ZONE 3 INCHES ABOVE AND BELOW EACH BEAM FLANGE CONNECTION.
- E. TEST BOTTOM FLANGE REINFORCING FILLET WELD AND ADJACENT AREA OF BEAM AND COLUMN FLANGE BY MAGNETIC PARTICLE.
- F. AFTER WELDING CONTINUITY PLATES, TEST COLUMN WEBS FOR CRACKING BY MAGNETIC PARTICLE OVER A ZONE 3 INCHES ABOVE AND BELOW THE CONTINUITY PLATE WELDS. G. UT TECHNICIANS SHALL BE CERTIFIED AS NDT LEVEL II BY THEIR EMPLOYER, OR AS ASNT
- 7. POST INSTALL ANCHORS INSPECTION & TESTING
- A. PERIODIC SPECIAL INSPECTION.

LEVEL III CERTIFIED BY THE ASNT.

- B. A MINIMUM OF 10% OF THE POST INSTALLED ANCHORS SHALL BE TESTED. THE SPECIAL INSPECTOR SHALL RANDOMLY CHOOSE THE ANCHORS TO BE TESTED. SHOULD ANY ANCHOR FAIL TESTING, ALL REMAINING UNTESTED ANCHORS OF THE SAME TYPE SHALL BE TESTED UNTIL WENTY (20) CONSECUTIVE ANCHORS PASS. RESUME INITIAL TESTING FREQUENCY THERE AFTER.
- C. THE TESTING LOAD ON THE POST INSTALLED ANCHORS SHALL BE:
- i. TWO (2x) THE MAXIMUM ALLOWABLE TENSION LOAD, OR ONE AND A QUARTER (1.25x) THE MAXIMUM TENSION DESIGN STRENGTH AS DETERMINED IN ACCORDANCE WITH APPENDIX D, ACI 318-14.

ii. TEST LOAD NEED NOT EXCEED 80% OF THE NOMINAL YIELD STRENGTH OF THE ANCHOR ELEMENT. 8. SPECIAL INSPECTION FOR CONCRETE AND REINFORCEMENT PER TABLE 1705.3, CBC 2022

- 9. REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS PER TABLE 1705.6, CBC 2022
- 10. STRUCTURAL OBSERVATION PER §1704.6,CBC 2022

CONSULTANT:

APPROVAL:

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