



MARIN COUNTY PARKS

# PARADISE BEACH PARK PIER RAILING & CURB REPLACEMENT

3450 Paradise Drive, Tiburon, CA 94920

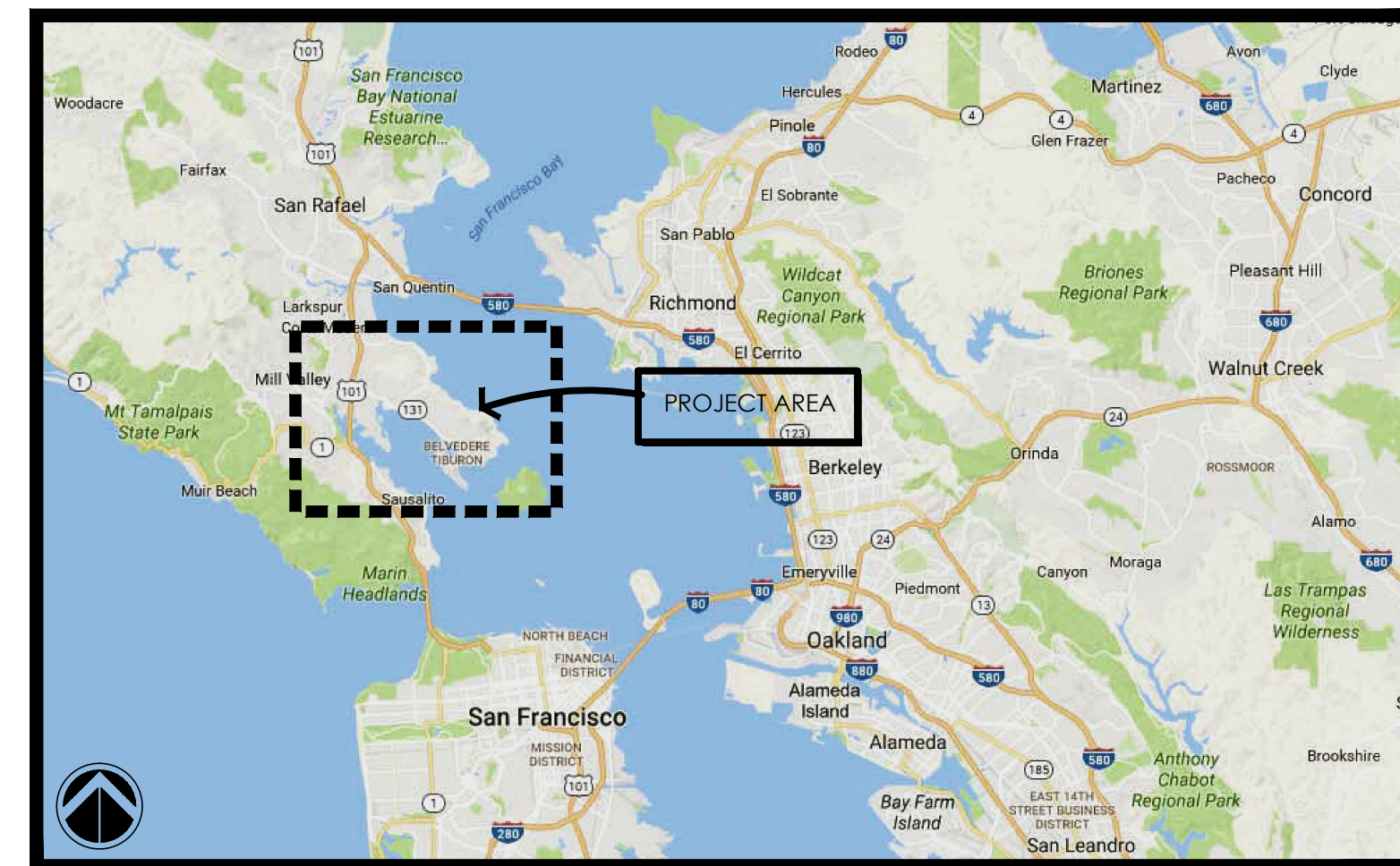
## PROJECT DIRECTORY

**OWNER**  
Marin County Parks  
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Fax: (415) 473-3795  
Contact: Stephanie Troyan

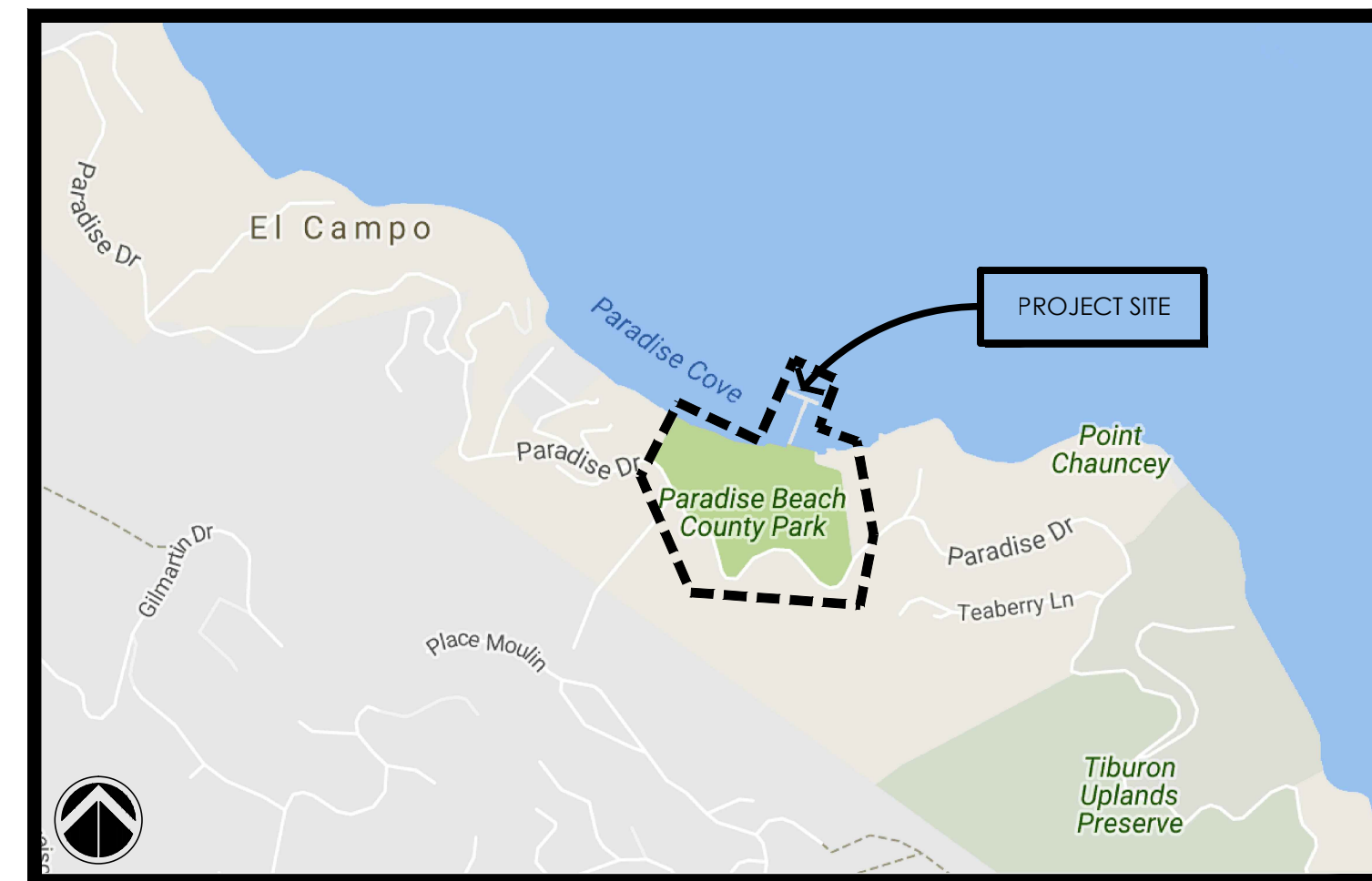
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## PROJECT DESCRIPTION

- THE PROJECT GENERALLY CONSISTS OF DEMOLITION OF EXISTING PIER RAILING, EXISTING CURB, WATERLINE, AND FISH WASHING STATION TO MAKE ROOM FOR NEW IMPROVEMENTS.
- NEW IMPROVEMENTS WILL GENERALLY INCLUDE CONTINUOUS CONCRETE CURB, PIER RAILING, WATERLINE, AND TRASH RECEPTACLES.
- ALL IMPROVEMENTS SHALL MEET THE 2016 CALIFORNIA BUILDING CODE & 2010 ADA ACCESSIBILITY REQUIREMENTS.



**VICINITY MAP**  
NOT TO SCALE



**LOCATION MAP**  
NOT TO SCALE

## SHEET INDEX

- G001 TITLE SHEET
- G002 GENERAL NOTES AND ABBREVIATIONS
- CD101 DEMOLITION PLAN
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- LC502 CONSTRUCTION DETAILS
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- S-1.1 STRUCTURAL CONCRETE DETAILS

## DIG ALERT

DIAL TOLL FREE



AT LEAST 2 DAYS  
BEFORE YOU DIG

PROJECT:  
**PARADISE BEACH  
PARK PIER RAILING  
AND CURB  
REPLACEMENT**  
3450 PARADISE DRIVE  
TIBURON, CA 94920

PROJECT OWNER:  
**MARIN COUNTY  
PARKS**  
PRESERVATION · RECREATION

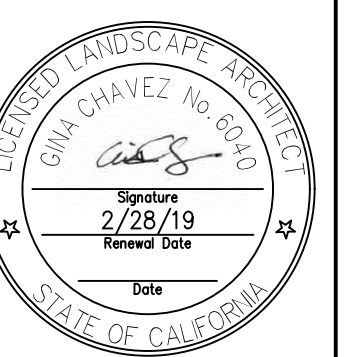


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DATE:

5/17/17

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BID SET

REVISIONS

No.	Date	Description

SHEET TITLE:

TITLESHEET

SHEET NUMBER:

G001



## ABBREVIATIONS

AB	AGGREGATE BASE OR ANCHOR BOLT	LH	LEFT HAND
ABV	ABOVE	LOC	LOCATION
AC	ASPHALTIC CONCRETE	LP	LOW POINT
ACP	ASPHALTIC CONCRETE PAVING	LS	LAG SCREW
ADJ	ADJACENT	LT	LEFT
AGG	AGGREGATE	MAS	MASONRY
ALT	ALTERNATE	MATL	MATERIAL
AP	ANGLE POINT	MAX	MAXIMUM
APPROX	APPROXIMATE	MED	MEDIUM
ARCH	ARCHITECT (URAL)	MFG	MANUFACTURING
BEL	BELOW	MFR	MANUFACTURE(R)
BLDG	BUILDING	MIN	MINIMUM
BLK	BLOCK	MISC	MISCELLANEOUS
BOT	BOTTOM	ML	MAINLINE
BOW	BACK OF WALK	(N)	NEW
BR	BOTTOM OF RAMP	NIC	NOT IN CONTRACT
BRG	BEARING	NO	NUMBER
CB	CATCH BASIN	NOM	NOMINAL
CF	CUBIC FOOT	NTS	NOT TO SCALE
CI	CAST IRON	OC	ON CENTER
CIP	CAST IN PLACE	OCEW	ON CENTER EACH WAY
C/L	CENTERLINE	OD	OUTSIDE DIAMETER
CL	CENTERLINE	O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
CLR	CLEAR	OH	OVERHEAD
CMU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
CO	CLEAN OUT	OPT	OPTIONAL
COL	COLUMN	PA	PLANTER AREA
CONC	CONCRETE	PC	POINT OF CURVE
CONST	CONSTRUCTION	PERF	PERFORATE (D)
CONT	CONTINUOUS, CONTINUE	PERP	PERPENDICULAR
CP	CENTER POINT	PFE	PUBLIC FACILITIES EASEMENT
CR	CURB RETURN	PL	PROPERTY LINE
CTC	CENTER TO CENTER	POB	POINT OF BEGINNING
CTR	CENTER	POC	POINT OF CONNECTION
DAS	DIRECTION AS SHOWN	PRC	POINT OF REVERSE CURVE
DET	DETAIL	PROP	PROPOSED
DF	DRINKING FOUNTAIN	PSI	POUNDS PER SQUARE INCH
DI	DRAIN INLET	PT	POINT, POINT OF TANGENCY
DIA	DIAMETER	PTDF	PRESSURE TREATED DOUGLAS FIR
DIAG	DIAGONAL	PTL	PRESSURE TREATED LUMBER
DIM	DIMENSION	PUE	PUBLIC UTILITIES EASEMENT
DS	DOWN SPOUT	PVC	POLYVINYL CHLORIDE
DWG	DRAWING	R, RAD	RADIUS
EA	EACH	RDWD	REDWOOD
EJ	EXPANSION JOINT	REBAR	REINFORCING BAR
ELEC	ELECTRICAL	REF	REFERENCE
ELEV	ELEVATION	REM	REMOVE
ENCL	ENCLOSURE	REQ'D	REQUIRED
EQ	EQUAL	REV	REVISION(S), REVISED
EQPT	EQUIPMENT	RH	RIGHT HAND
ESMT	EASEMENT	RW	RIGHT OF WAY
EWF	ENGINEERED WOOD FIBER	RT	RIGHT
EX	EXISTING	S	SLOPE
EXIST	EXISTING	SCH	SCHEDULE
(E)	EXISTING	SD	STORM DRAIN
FAB	FABRICATION	SF	SQUARE FEET
FBO	FURNISHED BY OTHERS	SHT	SHEET
FF	FINISHED FLOOR	SIM	SIMILAR
FFE	FINISHED FLOOR ELEVATION	SL	SLOPE
FG	FINISHED GRADE	SPEC	SPECIFICATION(S)
FIN	FINISH (ED)	SQ	SQUARE
FL	FLOWLINE	SS	SANITARY SEWER
FOC	FACE OF CONCRETE	S/S	STAINLESS STEEL
FOF	FACE OF FINISH	ST	STREET
FOM	FACE OF MASONRY	STA	STATION
FOS	FACE OF STEP	STD	STANDARD
FND	FOUNDATION	STL	STEEL
FS	FINISHED SURFACE	STRUC	STRUCTURE/ STRUCTURAL
FST	FINISHED SURFACE TURF	SURF	SURFACE
FTG	FOOTING	SWCL	SIDEWALK CENTERLINE
FUT	FUTURE	SYS	SYSTEM
GA	GAGE, GAUGE	SYN	SYNTHETIC
GB	GRADE BREAK	TBC	TOP BACK OF CURB
GKT	GASKET	TC	TOP OF CURB
GLV	GALVANIZED	TF	TOP OF FOOTING
GPH	GALLONS PER HOUR	TP	TANGENT POINT
GPM	GALLONS PER MINUTE	TR	TOP OF RAMP
GR	GRATE	TS	TOP OF STEP
HB	HOSE BIB	TW	TOP OF WALL
HC	HANDICAPPED	TYP	TYPICAL
HCAP	HANDICAPPED	UON	UNLESS OTHERWISE NOTED
HDB	HEADBOARD	VAR	VARIES
HEX	HEXAGONAL	V.I.F.	VERIFY IN FIELD
HOR	HORIZONTAL	VERT	VERTICAL
HP	HIGH POINT	W	WATER
HT	HEIGHT	W/	WITH
ID	INSIDE DIAMETER	W/O	WITHOUT
INT	INTERSECTION	@	AT
INV	INVERT	¢	CENTERLINE
JT	JOINT	Ø	DIAMETER
L	LENGTH	SF	SQUARE FEET
LB	LAG BOLT		

## GENERAL CONSTRUCTION NOTES

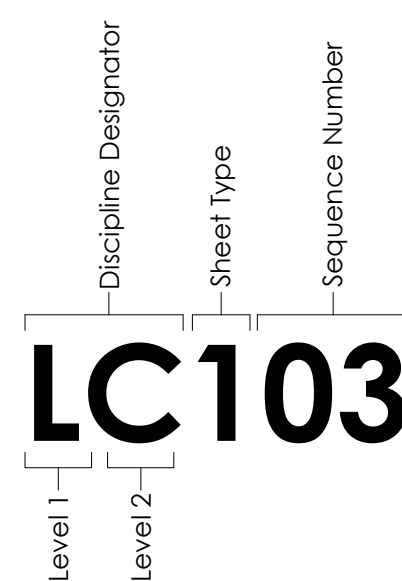
- PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL CONDITIONS FOR GRADING, DRAINAGE, AND UTILITIES. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE COUNTY AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED AND RESOLVED.
- THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PLANS AND SITE CONDITIONS PRIOR TO BEGINNING WORK. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY AND RECEIVE DIRECTION FROM THE COUNTY BEFORE PROCEEDING WITH THE WORK IN QUESTION.
- ONLY "APPROVED" STAMPED AND SIGNED DRAWINGS SHALL BE USED FOR THE CONSTRUCTION OF THIS PROJECT.
- NO CHANGES OR MODIFICATIONS TO THE PLANS SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF THE COUNTY.
- ALL NUMERIC AND WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER ALL SCALE DIMENSIONS.
- ALL MEASUREMENTS TO BE FIELD VERIFIED PRIOR TO FABRICATION.
- DETAILS AND NOTES ON THE DRAWINGS TAKE PRECEDENCE OVER TYPICAL DETAILS AND GENERAL NOTES.
- WRITTEN SPECIFICATIONS TAKE PRECEDENCE OVER DRAWINGS.
- ALL CONSTRUCTION SHALL CONFORM TO THE APPROVED PLANS AND SPECIFICATIONS. IN THE ABSENCE OF A SPECIFIED STANDARD OR SPECIFICATION, WORK SHALL CONFORM TO THE CURRENT MARIN COUNTY STANDARDS. IF NONE EXISTS, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), SHALL APPLY.
- CONTRACTOR SHALL TAKE ALL CARE TO PREVENT DISRUPTION OF PROJECT SITE IN AREAS OUTSIDE CONSTRUCTION ZONE.
- THE CONTRACTOR SHALL NOTIFY THE COUNTY AT LEAST 48 HOURS BEFORE COMMENCING WORK.
- PROPOSED DEVIATIONS FROM THE PLANS MUST BE SUBMITTED TO THE COUNTY FOR REVIEW AND APPROVAL, INCLUDING FIELD REVISIONS REQUESTED BY THE COUNTY INSPECTOR.
- THE CONTRACTOR SHALL EMPLOY ALL LABOR, EQUIPMENT, AND METHODS REQUIRED TO PREVENT HIS OPERATIONS FROM PRODUCING DUST IN AMOUNTS DAMAGING TO PROPERTY, CULTIVATED OR NATIVE VEGETATION, AND DOMESTIC AND NON-DOMESTIC ANIMALS OR CAUSING A NUISANCE TO PERSONS OCCUPYING BUILDINGS IN THE VICINITY OF THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST RESULTING FROM HIS OPERATIONS.
- CONSTRUCTION LINE AND GRADE STAKES SHALL BE SET BY A CIVIL ENGINEER OR SURVEYOR LICENSED IN THE STATE OF CALIFORNIA.
- CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OR PROPER RESETTING OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS. ANY SURVEY MONUMENTS DESTROYED BY THE CONTRACTOR SHALL BE REPLACED IN ACCORDANCE WITH THE STATE LAND SURVEYORS ACT AT THE CONTRACTOR'S EXPENSE.
- ALL PROTECTIVE DEVICES TO BE INSTALLED BY THE CONTRACTOR, SHALL BE IN PLACE AT THE END OF EACH WORK DAY. A SAFE PEDESTRIAN PATH OF TRAVEL SHALL BE PROVIDED AT ALL TIMES TO AND FROM BUILDING ENTRANCES TO PARKING FACILITIES. COORDINATE PEDESTRIAN WALK CLOSURES WITH COUNTY PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL REFER TO MATERIALS SPECIFICATIONS THROUGHOUT THE APPROVED PLAN SET AND SPECIFICATIONS. ANY SUBSTITUTIONS OF THE MATERIALS SPECIFIED IN THESE DOCUMENTS SHALL REQUIRE WRITTEN APPROVAL FROM THE COUNTY.
- DURING THE COURSE OF WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING THE COUNTY FOR TESTING AND INSPECTION 24 HOURS IN ADVANCE. WORK NOT PROPERLY TESTED AND INSPECTED WILL BE SUBJECT TO REJECTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF LOCATION OF ALL EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION. ALL UTILITIES SHALL BE PROTECTED AND REPAIRED BY THE CONTRACTOR IF DAMAGED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL UTILITY COMPANIES 48 HOURS PRIOR TO THE BEGINNING OF WORK. BRING ANY CONFLICTS WITH NEW IMPROVEMENTS IMMEDIATELY TO THE ATTENTION OF THE COUNTY.
- NOTIFY UNDERGROUND SERVICE ALERT (USA) TOLL FREE AT 811 A MINIMUM OF FORTY-EIGHT WORKING HOURS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR LOCATING OR HAVING LOCATED ALL UNDERGROUND UTILITIES AND RELATED FACILITIES AND FOR PROTECTING SAME DURING THE COURSE OF CONSTRUCTION. ALL UTILITIES THAT ARE NOT A MEMBER OF USA MUST ALSO BE NOTIFIED.
- ENTRANCE TO THE SITE AND LAY DOWN AREA DURING CONSTRUCTION SHALL BE SPECIFIED BY THE COUNTY.
- CONTRACTOR SHALL PROVIDE A LEGIBLE AND COMPLETE SET OF PLANS IDENTIFYING ALL MODIFICATIONS MADE DURING CONSTRUCTION TO THE COUNTY FOR THE PREPARATION OF RECORD DRAWINGS.
- ALL CONSTRUCTION SHALL CONFORM TO LATEST EDITION OF CALIFORNIA BUILDING CODE TITLE 24.
- ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO MONDAY THROUGH FRIDAY OF THE CALENDAR WEEK. NO WEEKEND WORK SHALL BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE COUNTY'S AUTHORIZED REPRESENTATIVE.
- CONSTRUCTION OPERATIONS: BEST MANAGEMENT ELEMENTS WHICH ALSO INCLUDE TYPICAL, INDUSTRY BEST MANAGEMENT PRACTICES TO REDUCE IMPACTS ON EXISTING NATURAL RESOURCES AND TO MINIMIZE ENVIRONMENTAL IMPACTS, INCLUDING BUT NOT LIMITED TO, IMPLEMENTING DUST CONTROL MEASURES TO PROTECT AIR QUALITY; AND COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS REGARDING THE TRANSPORT, USE AND DISPOSAL OF HAZARDOUS MATERIALS.
  - ALL CONSTRUCTION OPERATIONS SHALL BE PERFORMED TO PREVENT CONSTRUCTION MATERIALS FROM FALLING, WASHING OR BLOWING INTO THE BAY. IN THE EVENT THAT SUCH MATERIAL ESCAPES OR IS PLACED IN AN AREA SUBJECT TO TIDAL ACTION OF THE BAY, THE CONTRACTOR SHALL IMMEDIATELY RETRIEVE AND REMOVE SUCH MATERIAL AT ITS EXPENSE.
  - CONTRACTOR SHALL CONTROL THE CREATION AND DISPOSAL OF CONSTRUCTION DEBRIS, INCLUDING DAMAGED CONCRETE BEING REMOVED AND DUST. SEE DEBRIS CONTROL PLAN SUBMITTAL REQUIREMENT.
  - CONTRACTOR SHALL LIMIT THE IMPACT OF CONSTRUCTION NOISE ON THE HOUSEHOLDS SURROUNDING THE PARK. SEE NOISE ABATEMENT PLAN SUBMITTAL REQUIREMENT.
  - CONTRACTOR SHALL MINIMIZE THE POTENTIAL FOR DEBRIS, CHEMICALS, OR TREATED MATERIALS TO CONTACT BAY WATERS. A FLOATING DEBRIS BARRIER AND/OR ABSORBENT BOOM WOULD BE POSITIONED BENEATH AND ALONGSIDE AREAS WHERE WORK IS OCCURRING AS APPROPRIATE.
  - IN-WATER WORK ON THE PIER STRUCTURE IS NOT PROPOSED. ALL WORK SHALL BE CONDUCTED ABOVE THE WATERLINE ON THE PIER.
  - PROTECTIVE MEASURES SHALL BE USED TO CATCH ANY FALLING CONCRETE OR DEBRIS DURING CONSTRUCTION OR DEBRIS DURING CUTTING, CLEANING AND REMOVAL OPERATIONS.
  - VESSEL FUELING SHALL OCCUR AT AN APPROVED DOCKING FACILITY. NO CROSS VESSEL FUELING WOULD BE ALLOWED. MARINE VESSELS SHALL CONTAIN PETROLEUM PRODUCTS WITHIN TANKAGE INTERNAL TO THE HULLS OF THE VESSELS.
  - VESSELS AND EQUIPMENT THAT RELY ON INTERNAL COMBUSTION ENGINES FOR POWER AND/OR PROPULSION SHALL BE KEPT IN GOOD WORKING CONDITION, AND COMPLIANT WITH CALIFORNIA EMISSION REGULATIONS.
- REMOVAL OF CURBS: NEATLY SAW CUT CONCRETE AT RIGHT ANGLE TO SURFACE. CUT ANY STEEL REINFORCEMENT FLUSH WITH THE PIER DECK DO NOT ALLOW DUST TO BLOW INTO BAY. VACUUM CONCRETE DUST.

## KEY TO SHEET NUMBERING

DRAWING SHEET NUMBERING AND ORGANIZATION IS ADAPTED FROM THE UNITED STATES NATIONAL CAD STANDARD.

DISCIPLINE DESIGNATORS - LEVEL 1 (Partial List)	DISCIPLINE DESIGNATORS - LEVEL 2 (Partial List)	SHEET TYPES
G General	D Demolition	0 General: Symbol legend, abbreviations, general notes.
R Resource (Existing Conditions)	S Site	1 Plans
H Hazardous Materials	G Grading	2 Elevations
V Survey/Mapping	E Erosion Control	3 Sections
B Geotechnical	P Paving	4 Large Scale Drawings: plans, elevations, sections (not details)
C Civil	U Utilities	5 Details
L Landscape	C Construction	6 Schedules and Diagrams
S Structural	I Irrigation	7 User Defined
A Architectural	P Planting	8 User Defined
E Electrical	L Lighting	9 3D Drawings: isometric, perspective, photos
Z Contractor/Shop Drawings	W Stormwater	
	H Horizontal Control	

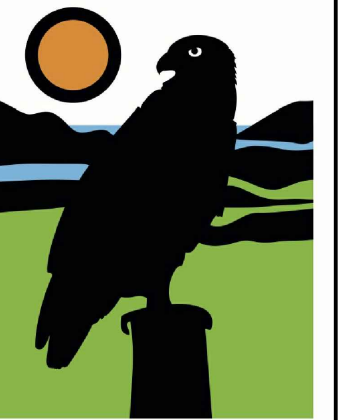
Dash is substituted when Level 2 is not included.



Example  
Sheet number at left (LC103) is LANDSCAPE CONSTRUCTION PLAN, THIRD SHEET.

PROJECT:  
**PARADISE BEACH  
PARK PIER RAILING  
AND CURB  
REPLACEMENT**  
340 PARADISE DRIVE  
TIBURON, CA 94920

PROJECT OWNER:  
**MARIN COUNTY  
PARKS**  
PRESERVATION-RECREATION

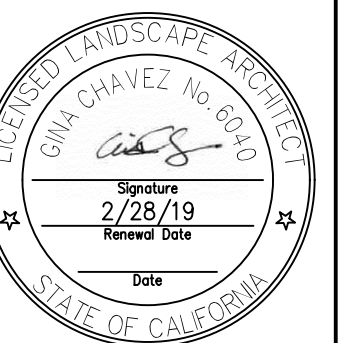


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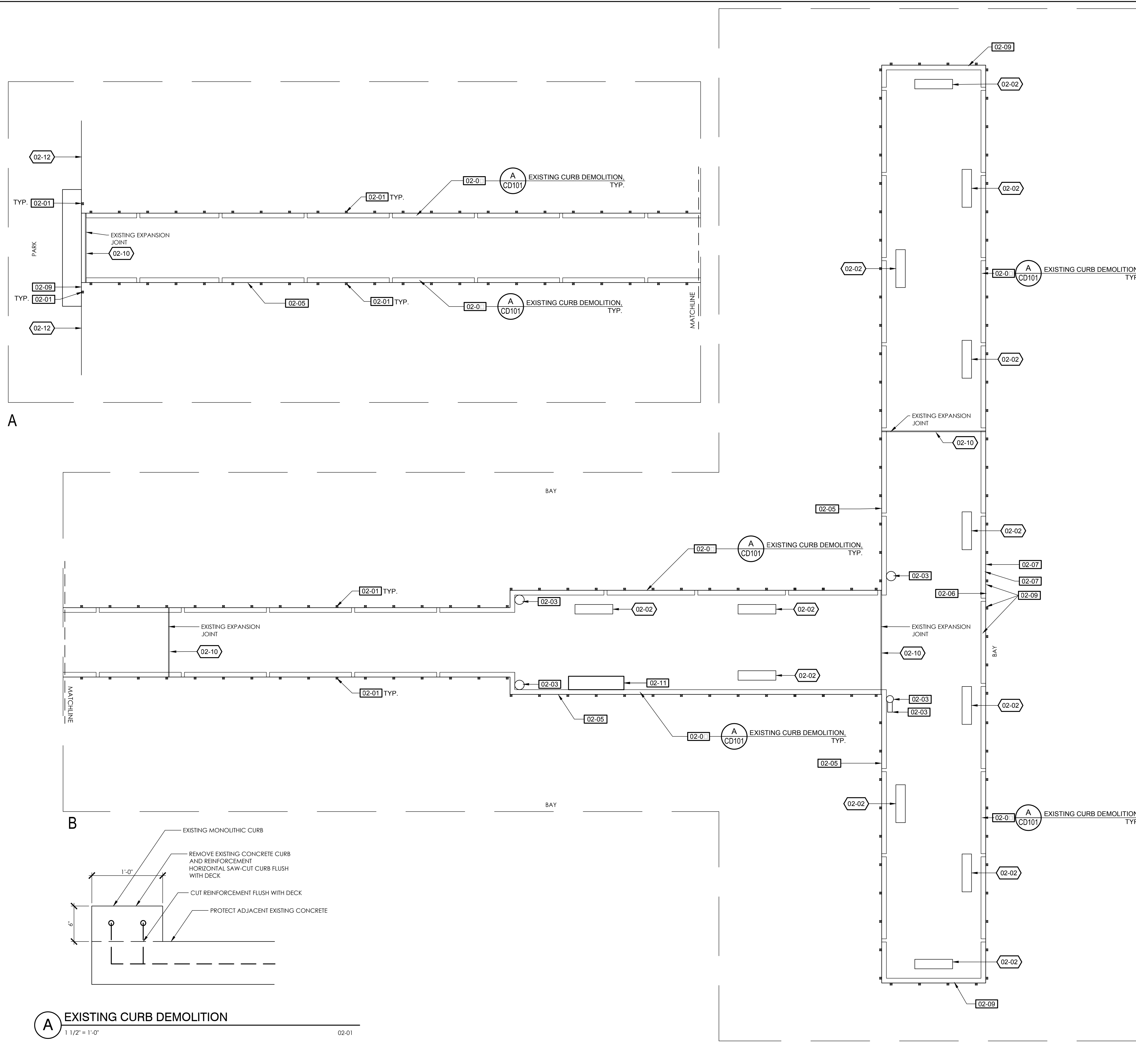
No.	Date	Description

SHEET TITLE:

GENERAL NOTES AND  
ABBREVIATIONS

SHEET NUMBER:

**G002**

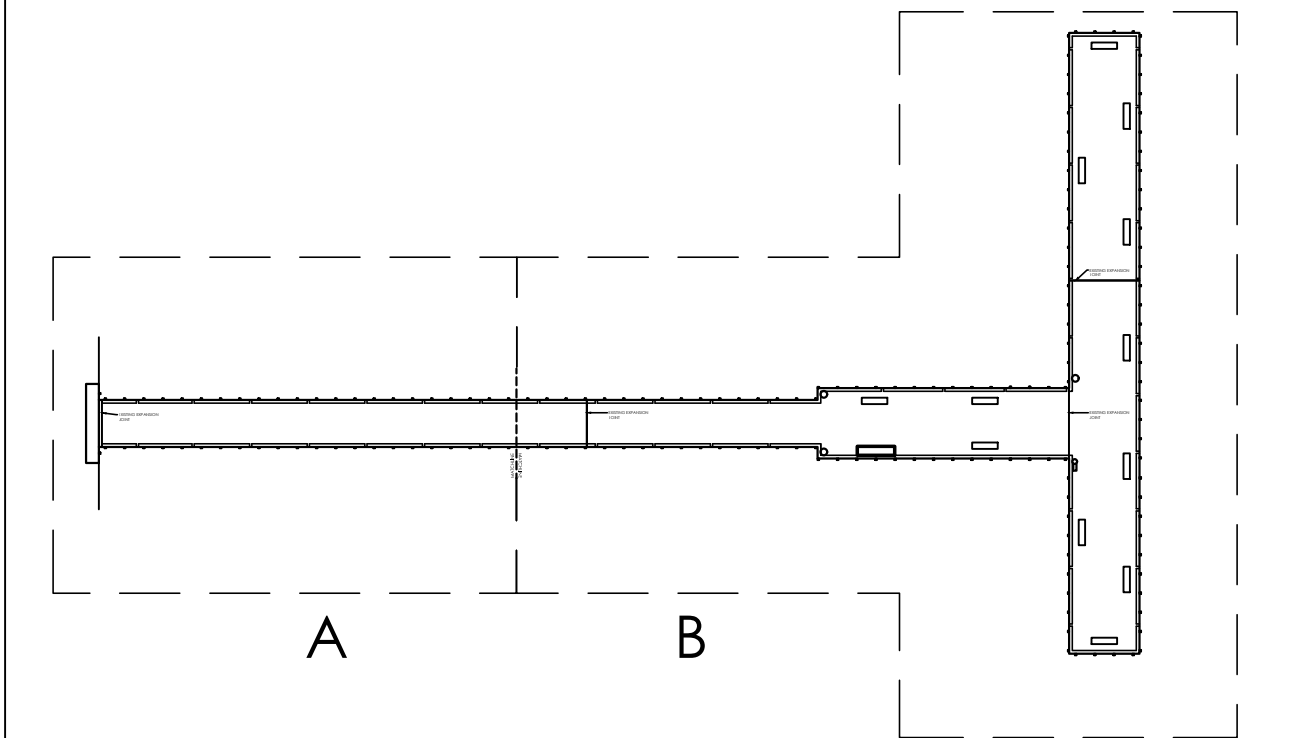


**REFERENCE NOTES SCHEDULE**

SYMBOL	02 EXISTING CONDITIONS DESCRIPTION	REMARKS
02-01	REMOVE AND DISPOSE OF EXISTING PIER RAILING, POST, AND FISHING POLE HOLDERS.	
02-02	EXISTING BENCH TO REMAIN, PROTECT IN PLACE	
02-03	TRASH RECEPTACLES TO BE REMOVED AND DISPOSED OF BY CONTRACTOR.	
02-05	REMOVE AND DISPOSE OF EXISTING WATER LINE AND QUICK COUPLERS.	
02-06	EXISTING LIFE RING, SALVAGE FOR REUSE.	
02-07	EXISTING REGULATION BOX TO BE SALVAGED FOR REUSE.	
02-0	REMOVE AND DISPOSE OF EXISTING CURB.	
02-09	EXISTING SIGN TO BE SALVAGED FOR REUSE.	
02-10	EXPANSION JOINT PLATE, PROTECT IN PLACE.	
02-11	REMOVE AND DISPOSE OF EXISTING FISH WASHING STATION, CAP AND PROTECT EXISTING WATER LINE.	
02-12	EXISTING RAIL TO REMAIN, PROTECT IN PLACE.	

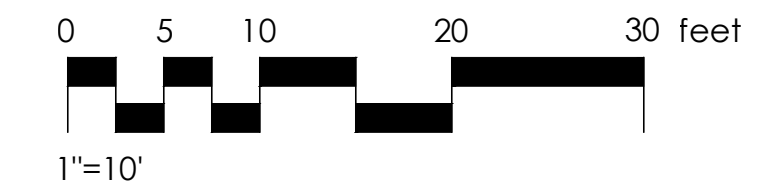
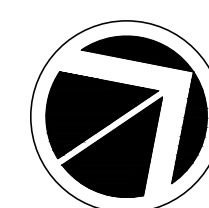
**DEMOLITION NOTES**

- THIS DEMOLITION PLAN WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. THE LANDSCAPE ARCHITECT AND THE ENGINEER DO NOT REPRESENT THAT ALL ITEMS WHICH MAY REQUIRE DEMOLITION AND REMOVAL HAVE BEEN SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND DETERMINE AND EXECUTE ALL DEMOLITIONS AND REMOVALS NECESSARY FOR THE CONSTRUCTION OF THE NEW WORK TO THE SPECIFIED LINES, GRADES, AND CONFIGURATIONS.
- ALL DEMOLITION WORK SHALL CONFORM TO THE SPECIFICATIONS FOR THIS PROJECT.
- NO DEMOLITION SHALL BE STARTED WITHOUT APPROVED PLANS. THE COUNTY SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO STARTING DEMOLITION.
- THE PLANS DO NOT AUTHORIZE SITE DISTURBANCE BEYOND THE LIMITS OF THE DEMOLITION LIMIT LINES AS REPRESENTED ON THE PLANS UNLESS OTHERWISE NOTED.
- ALL ITEMS NOT SCHEDULED FOR DEMOLITION WHICH ARE DAMAGED DURING DEMOLITION AND CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO ORIGINAL CONDITION OR TO THE SATISFACTION OF THE COUNTY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER STORAGE AND TRANSPORTATION OF ANY ITEMS TO BE RELOCATED.
- THE CONTRACTOR SHALL SALVAGE SIGNAGE, SITE FURNISHINGS AND OTHER ITEMS AS DIRECTED BY THE COUNTY.
- ALL DEBRIS FROM THE DEMOLITION PROCESS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE UNLESS OTHERWISE NOTED.
- ALL STREETS, ALLEYS, VEHICULAR WAYS, SIDEWALKS, AND HAUL ROUTES SHALL BE KEPT CLEAN AND CLEAR OF DEBRIS, DIRT AND DUST IN A MANNER ACCEPTABLE TO THE COUNTY. AT A MINIMUM, THESE AREAS SHALL BE CLEANED AT THE END OF EACH WORK DAY. FAILURE TO DO SO WILL RESULT IN A "STOP WORK" NOTICE. SAID NOTICE WILL NOT BE RELEASED UNTIL THE AREA HAS BEEN CLEANED TO THE SATISFACTION OF THE COUNTY. THE FLUSHING OF DIRT OR DEBRIS INTO STORM DRAIN OR SANITARY SEWER FACILITIES SHALL NOT BE PERMITTED.
- ALL ABANDONED UTILITIES SHALL BE MARKED IN THE FIELD AND LOCATED ON THE DRAWINGS OF RECORD BY THE CONTRACTOR. PROVIDE TWO COPIES OF RECORD DRAWINGS TO THE COUNTY AT THE CONCLUSION OF THE DEMOLITION WORK.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. EXISTING UTILITIES AND IMPROVEMENTS SHOWN ON THESE PLANS ARE FROM RECORD SOURCES AND SPOT CHECKS. UTILITIES ARE SHOWN FOR DESIGN PURPOSES ONLY.
- THE CONTRACTOR SHALL ONLY REMOVE THOSE UNDERGROUND FACILITIES SPECIFICALLY NOTED FOR REMOVAL. DAMAGE TO EXISTING FACILITIES TO REMAIN SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR MUST NOTIFY ALL UTILITY COMPANIES PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE TO TELEPHONE UNDERGROUND SERVICE ALERT (USA) TOLL FREE AT 811 A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. FOR BEST RESPONSE, PROVIDE AS MUCH NOTICE AS POSSIBLE, UP TO 10 WORKING DAYS.
- CONTRACTOR SHALL NOT INTERRUPT ANY SERVICES OR DISRUPT THE OPERATION OF ADJACENT BUSINESSES, RESIDENTIAL AREAS OR ONSITE FACILITIES OUTSIDE THE LIMITS OF DEMOLITION.
- WHEN POURING OR PATCHING CONCRETE, WASHOUT IS REQUIRED TO BE USED ONSITE.
- EXCAVATED SOIL AND VEGETATED STRIPPINGS SHALL BE DISPOSED OF AT A COUNTY OWNED PROPERTY (TBD) WITHIN FIVE MILE RADIUS OF PARADISE BEACH PARK.
- SEE GENERAL NOTES FOR PROTECTION OF BAY.
- EXTREME CARE SHALL BE EXERCISED TO AVOID DAMAGE OF THE EXISTING FEATURES, PARTICULARLY THE PIER STRUCTURE AND THE EXISTING ADJACENT PAVEMENT, AND IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE REPAIRS MADE TO EXISTING FACILITIES AT HIS/HER EXPENSE IN THE EVENT OF DAMAGE.
- DEBRIS REMOVAL: ALL CONSTRUCTION DEBRIS SHALL BE REMOVED TO AN AUTHORIZED LOCATION OUTSIDE THE JURISDICTION OF THE BAY CONSERVATION AND DEVELOPMENT COMMISSION. IN THE EVENT THAT ANY SUCH MATERIAL IS PLACED IN ANY AREA WITHIN THE BAY CONSERVATION AND DEVELOPMENT COMMISSION'S JURISDICTION, CONTRACTOR SHALL REMOVE SUCH MATERIAL, AT THEIR EXPENSE, WITHIN TEN DAYS AFTER THEY HAVE BEEN NOTIFIED OF SUCH PLACEMENT.



**KEY MAP**

KEY MAP SCALE 1"=60'-0"



PROJECT:  
**PARADISE BEACH PARK PIER RAILING AND CURB REPLACEMENT**  
 340 PARADISE DRIVE  
 TIBURON, CA 94920

PROJECT OWNER:

CONTACT:  
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REGISTRATION & SIGNATURE

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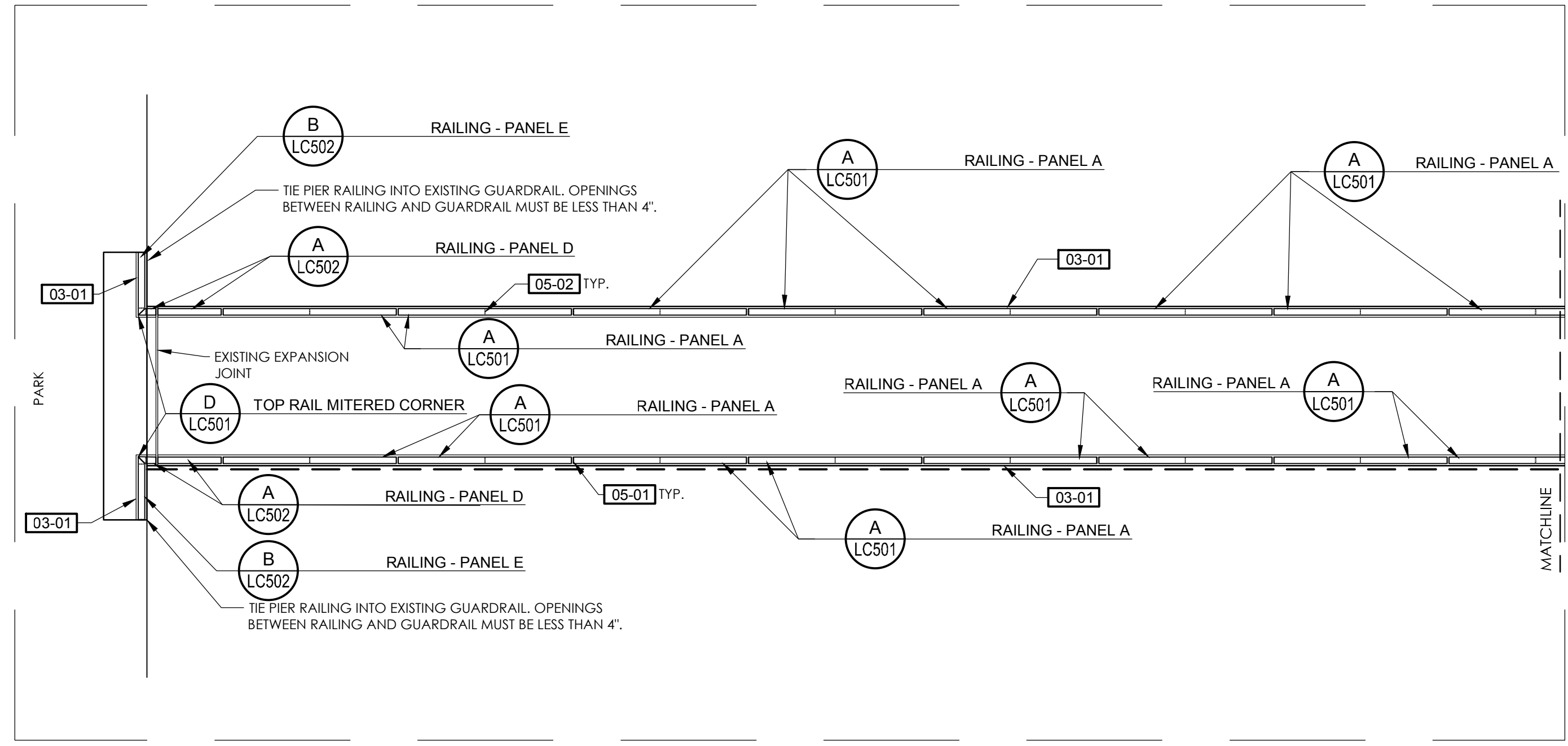
No.	Date	Description

SHEET TITLE: **DEMOLITION PLAN**

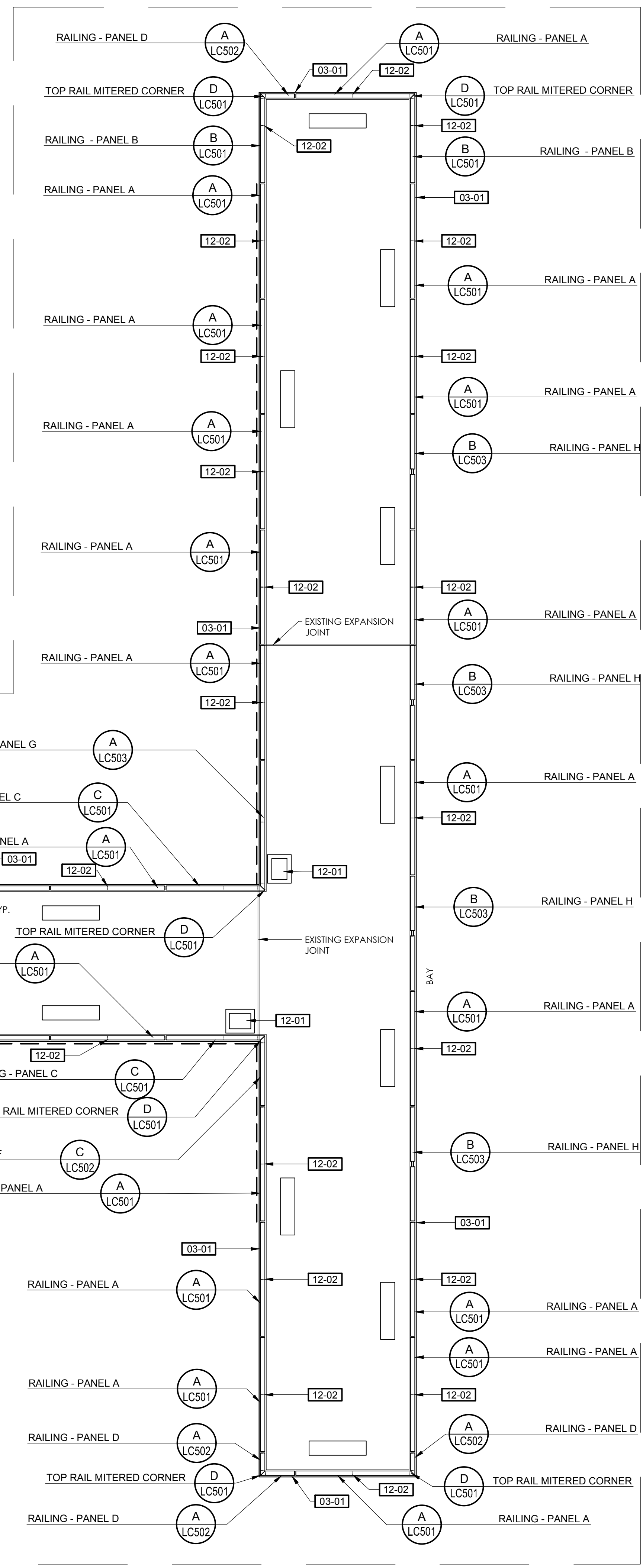
SHEET NUMBER: **CD101**

**A** EXISTING CURB DEMOLITION  
 1 1/2" = 1'-0" 02-01





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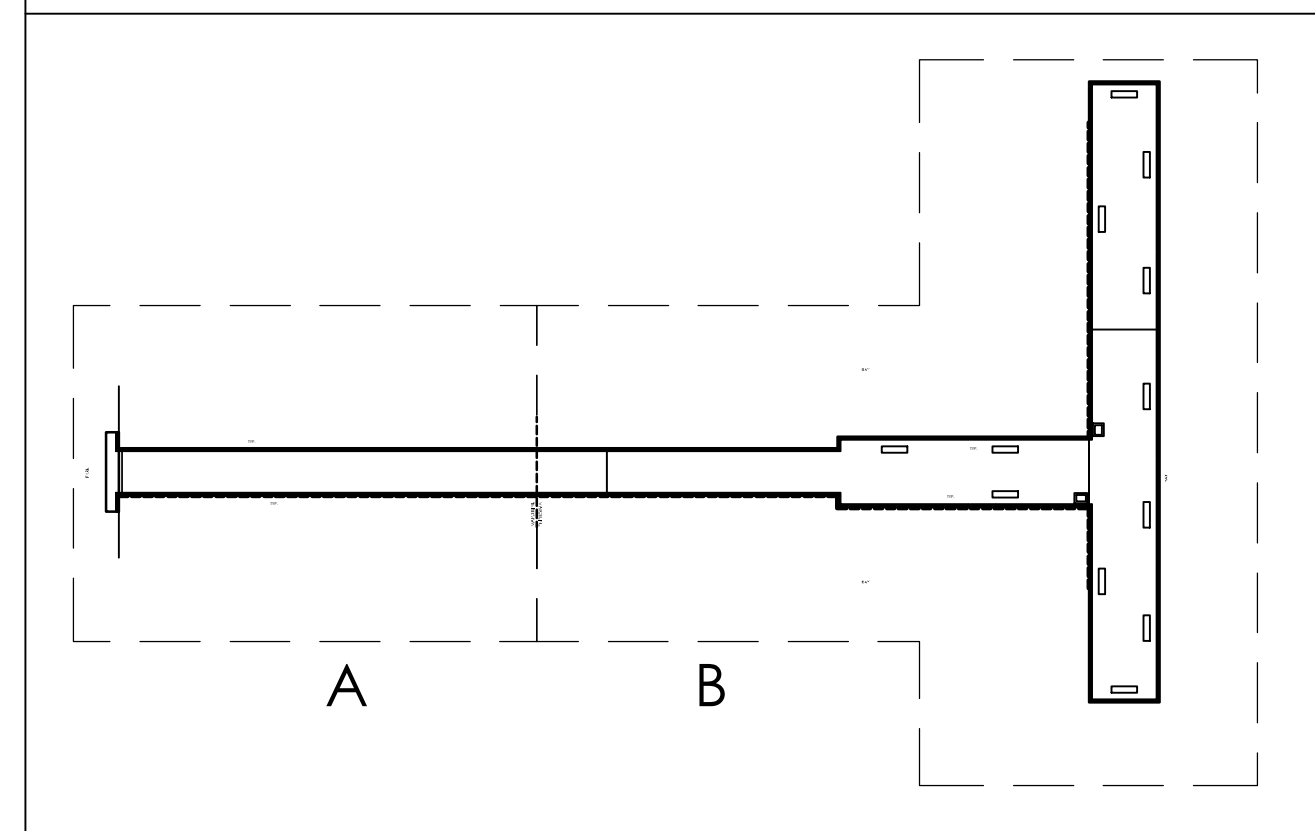
B

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	REMARKS
03-01	03 CONCRETE CONTINUOUS CONCRETE CURB	SEE STRUCTURAL DRAWINGS
05-01	05 METALS RAILING PANEL END POST	
05-02	05 METALS RAILING PANEL CENTER POST	
12-01	12 SITE FURNISHINGS TRASH & RECYCLING RECEPTACLE	
12-02	12 SITE FURNISHINGS FISHING POLE HOLDER	

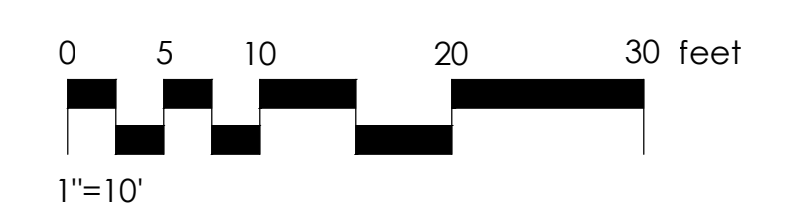
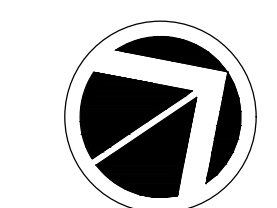
LEGEND

--- (E) WATERLINE WITH SEVEN (7) QUICK COUPLERS TO BE REPLACED



KEY MAP

KEY MAP SCALE 1"=60'-0"



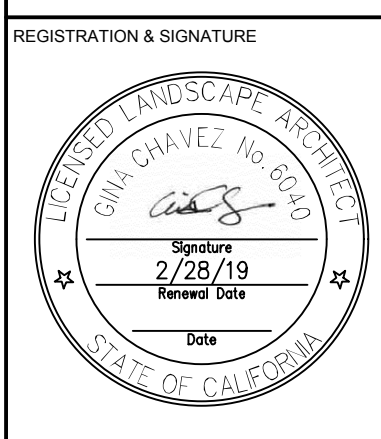
PROJECT:  
PARADISE BEACH  
PARK PIER RAILING  
AND CURB  
REPLACEMENT  
3450 PARADISE DRIVE  
TIBURON, CA 94920

PROJECT OWNER:  
**MARIN COUNTY**  
PARKS  
PRESERVATION-RECREATION



CONTACT:  
STEPHANIE TROYAN  
MARIN COUNTY PARKS  
3501 CIVIC CENTER DRIVE #260  
SAN RAFAEL, CA 94903  
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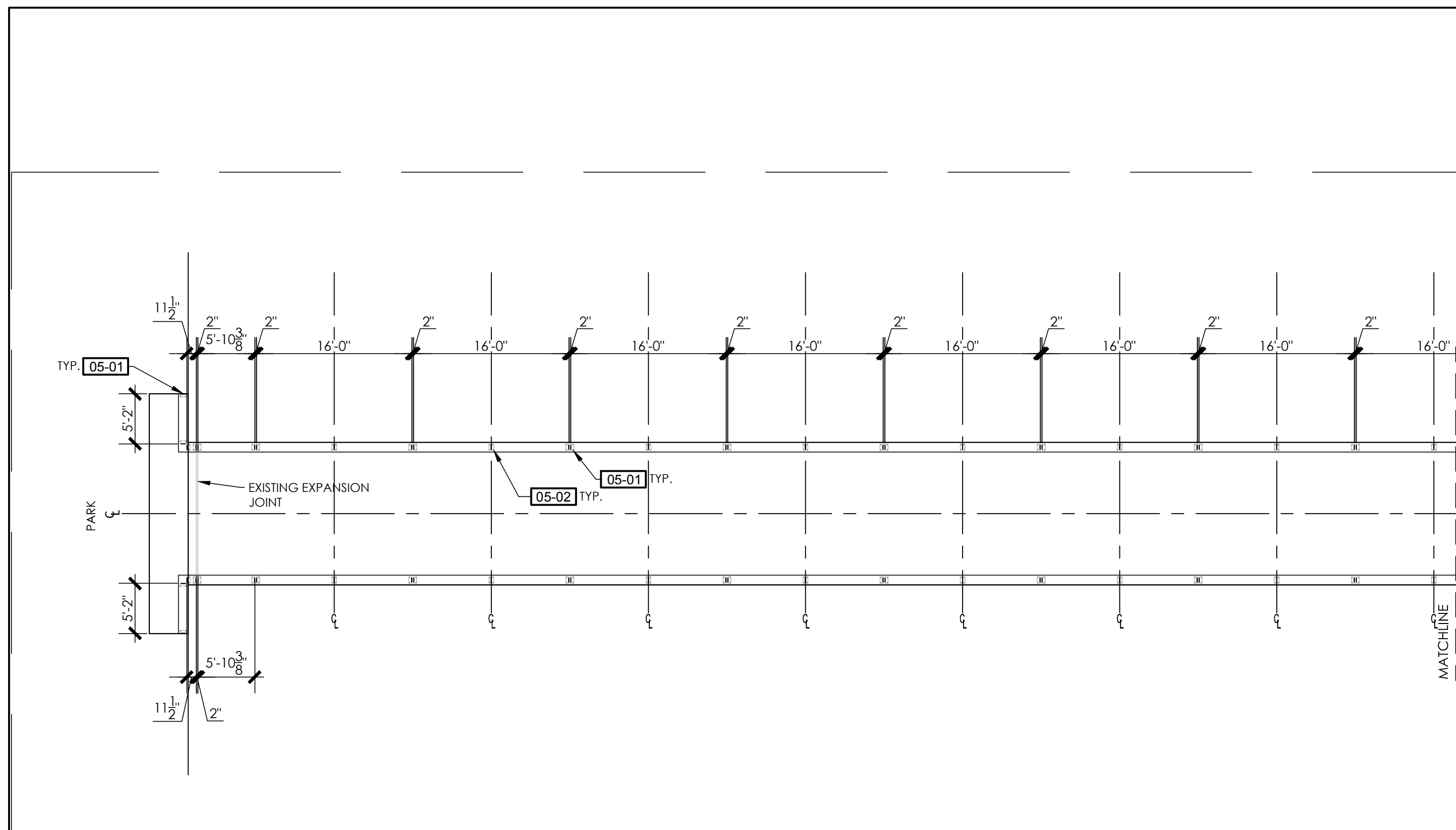
SUBMITTAL: BID SET

REVISIONS

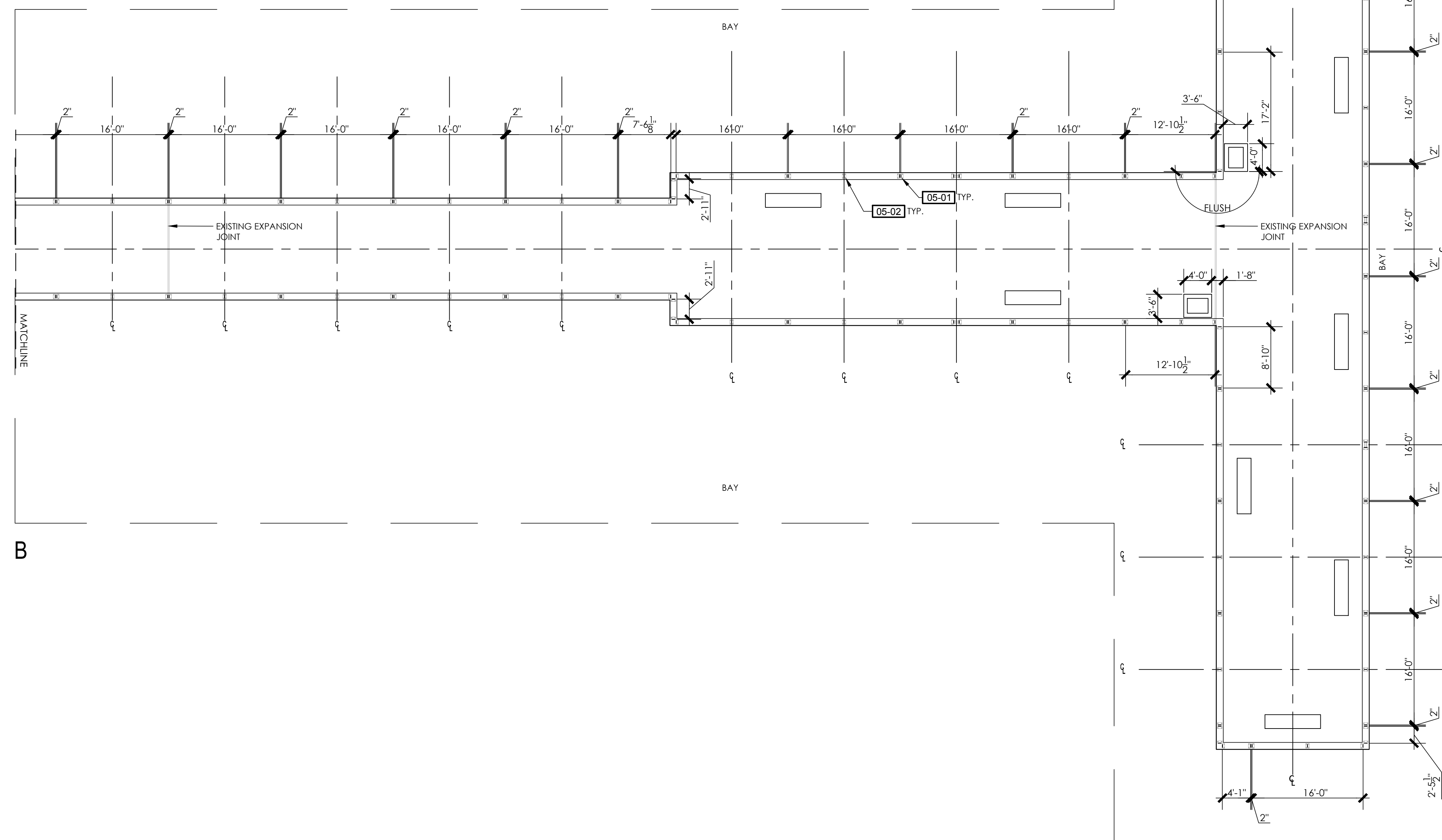
No.	Date	Description

SHEET TITLE: CONSTRUCTION PLAN

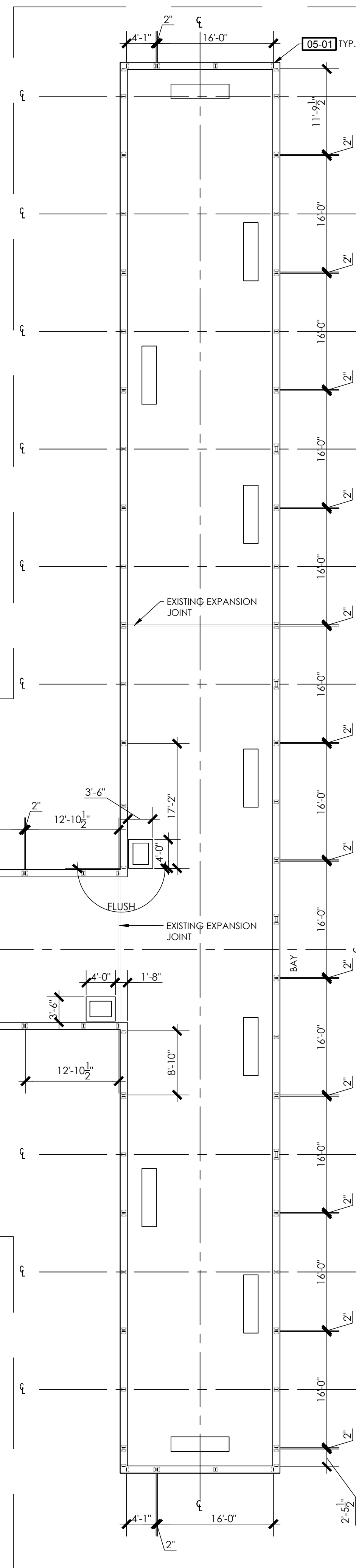
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A

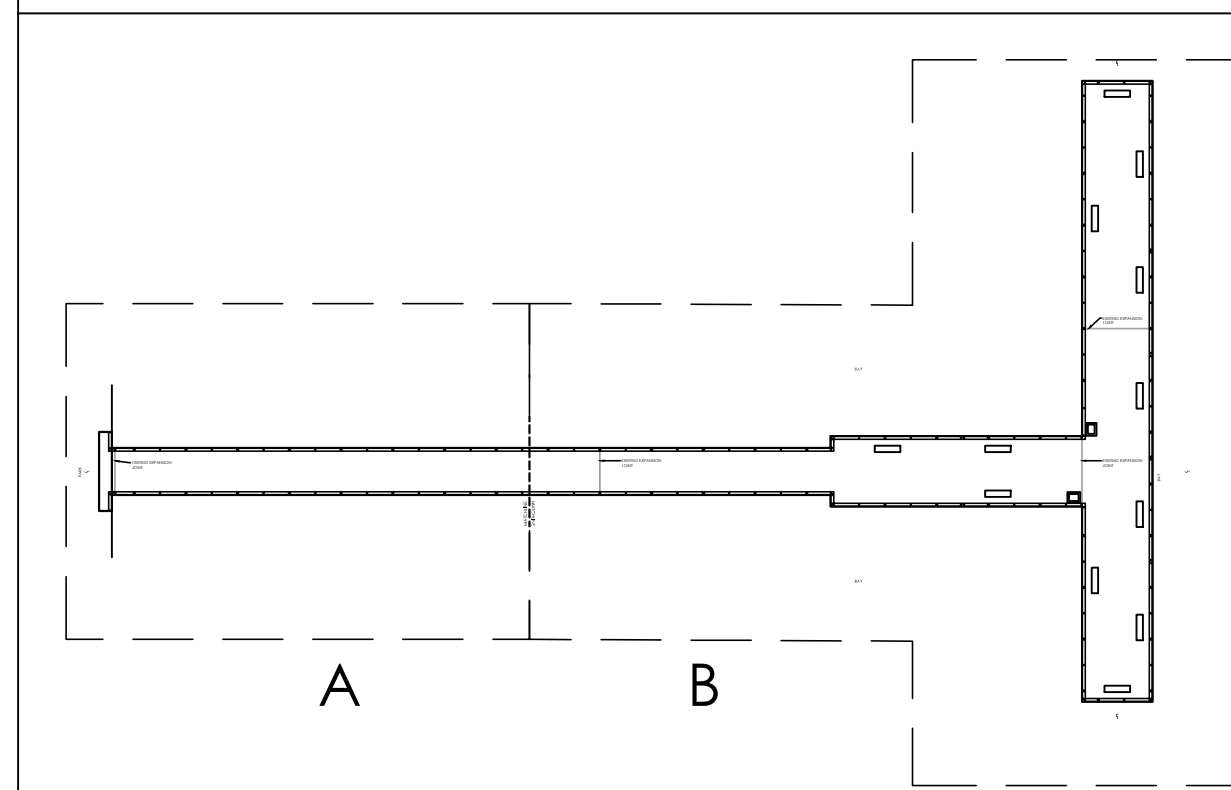


B



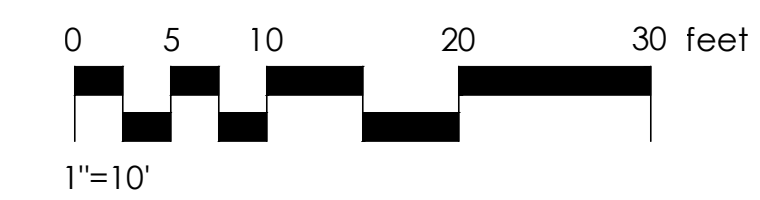
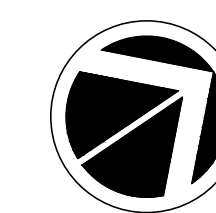
REFERENCE NOTES SCHEDULE

SYMBOL	05 METALS DESCRIPTION
05-01	RAILING PANEL END POST
05-02	RAILING PANEL CENTER POST



KEY MAP

KEY MAP SCALE 1"=60'-0"



PROJECT:  
PARADISE BEACH  
PARK PIER RAILING  
AND CURB  
REPLACEMENT

340 PARADISE DRIVE  
TIBURON, CA 94920

PROJECT OWNER:

MARIN COUNTY  
PARKS  
PRESERVATION-RECREATION

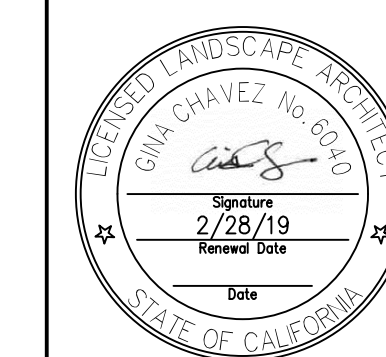


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REVISIONS

No.	Date	Description

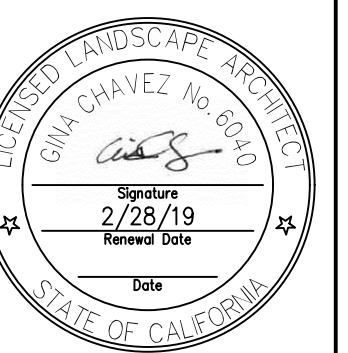
SHEET TITLE:

POST LAYOUT PLAN

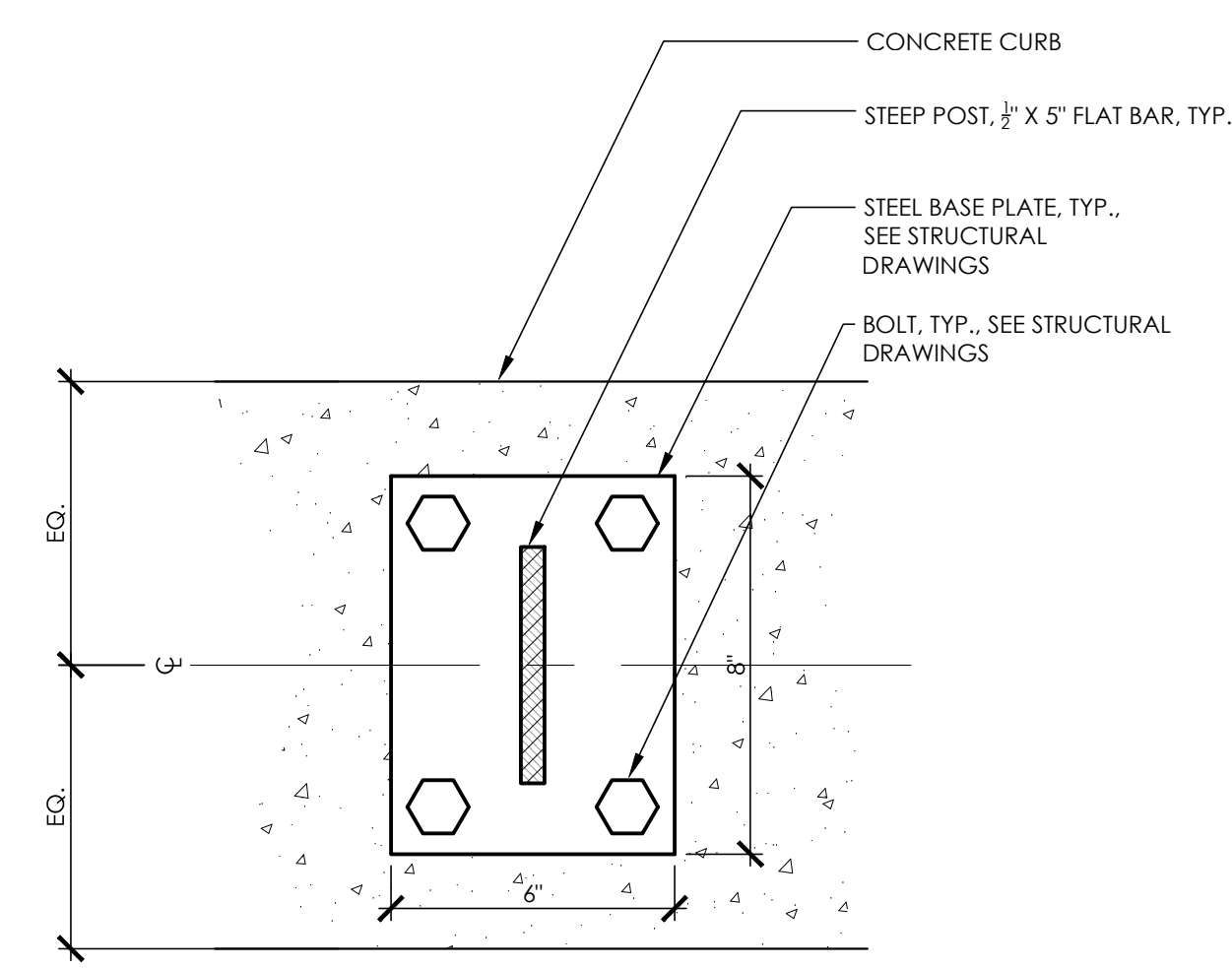
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LC102



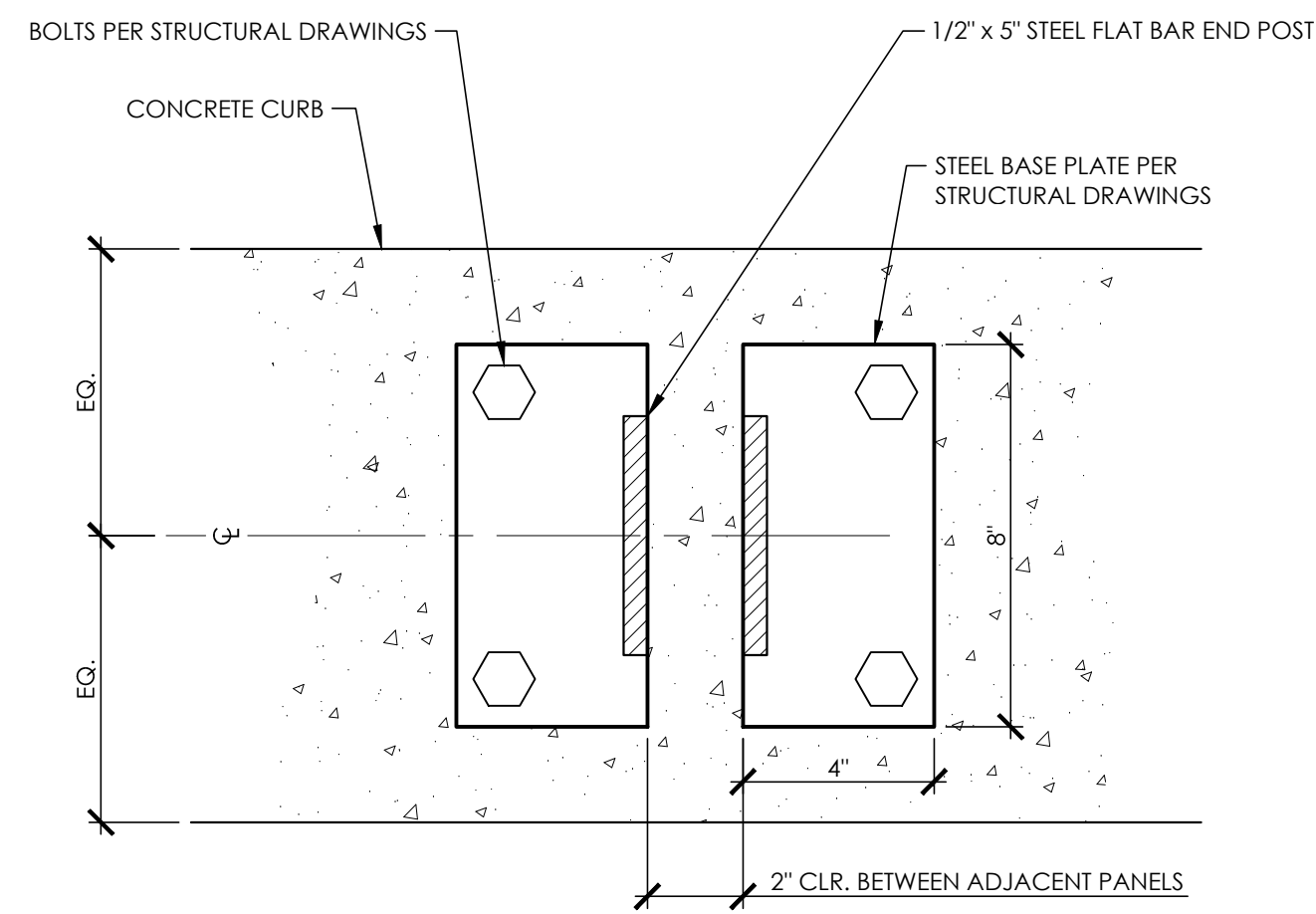


No.	Date	Description



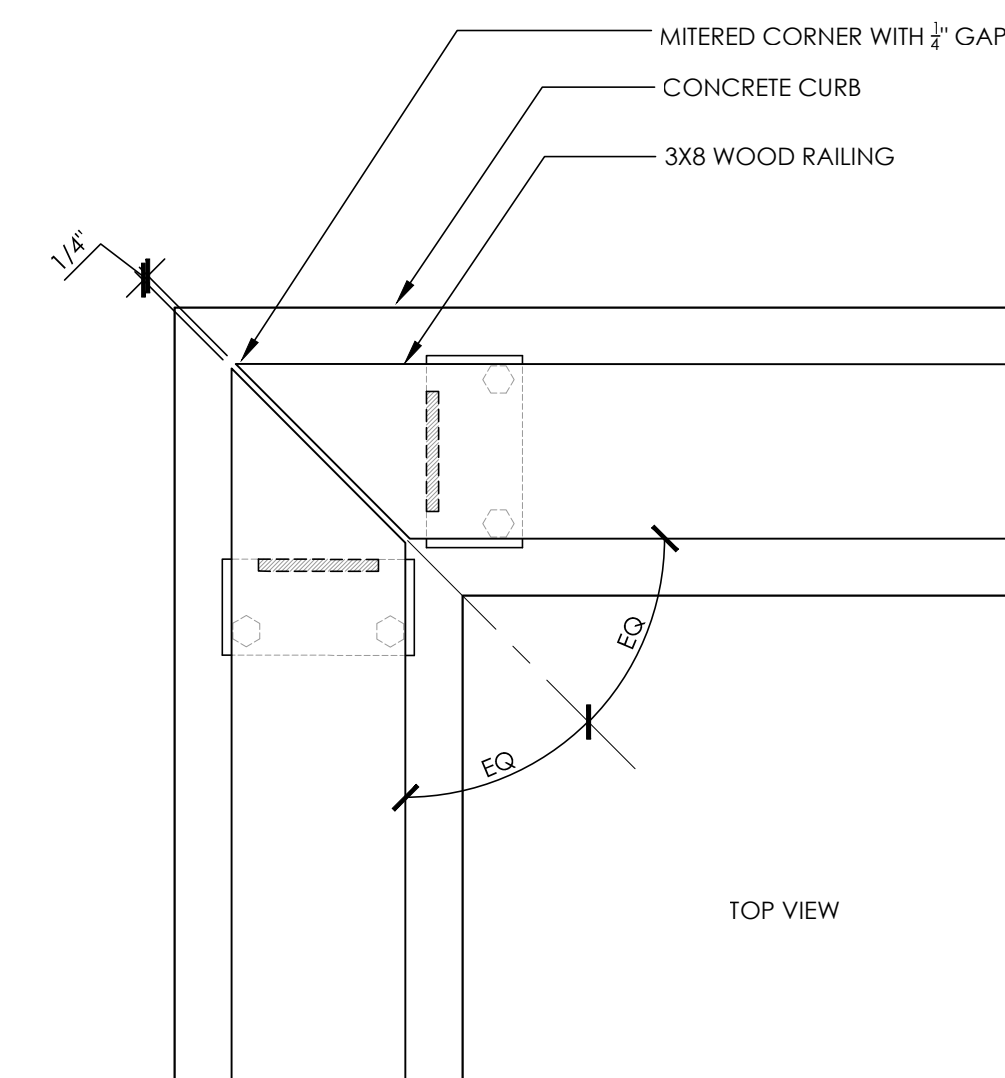
**F** `T` BASE PLATE  
 3" = 1'-0"

0552-14



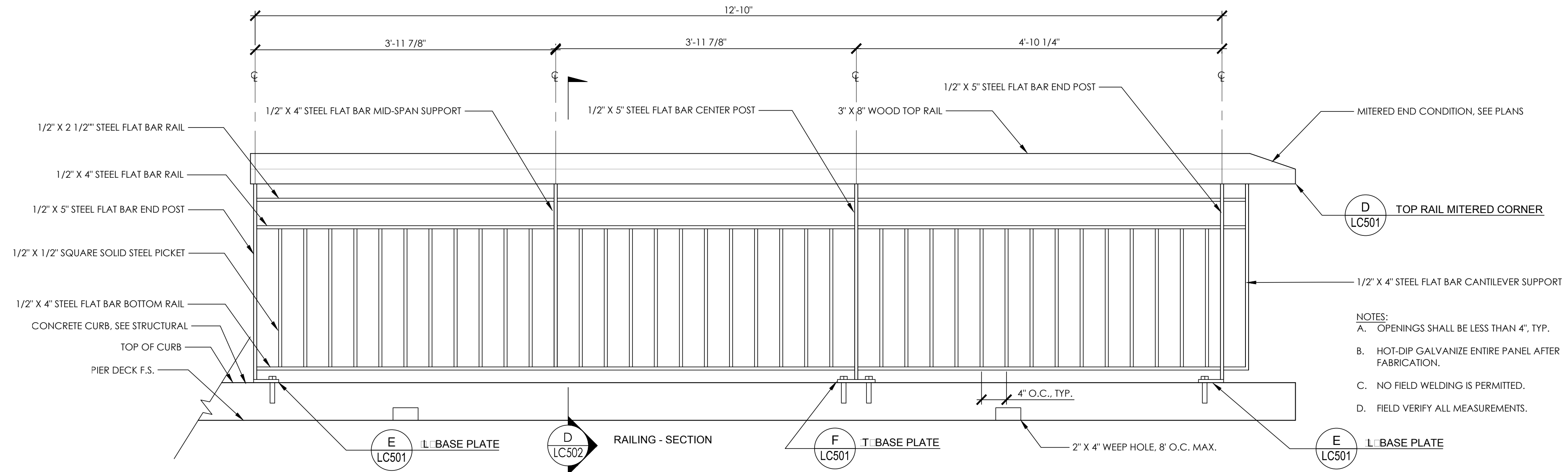
**E** `L` BASE PLATE  
 3" = 1'-0"

0552-12



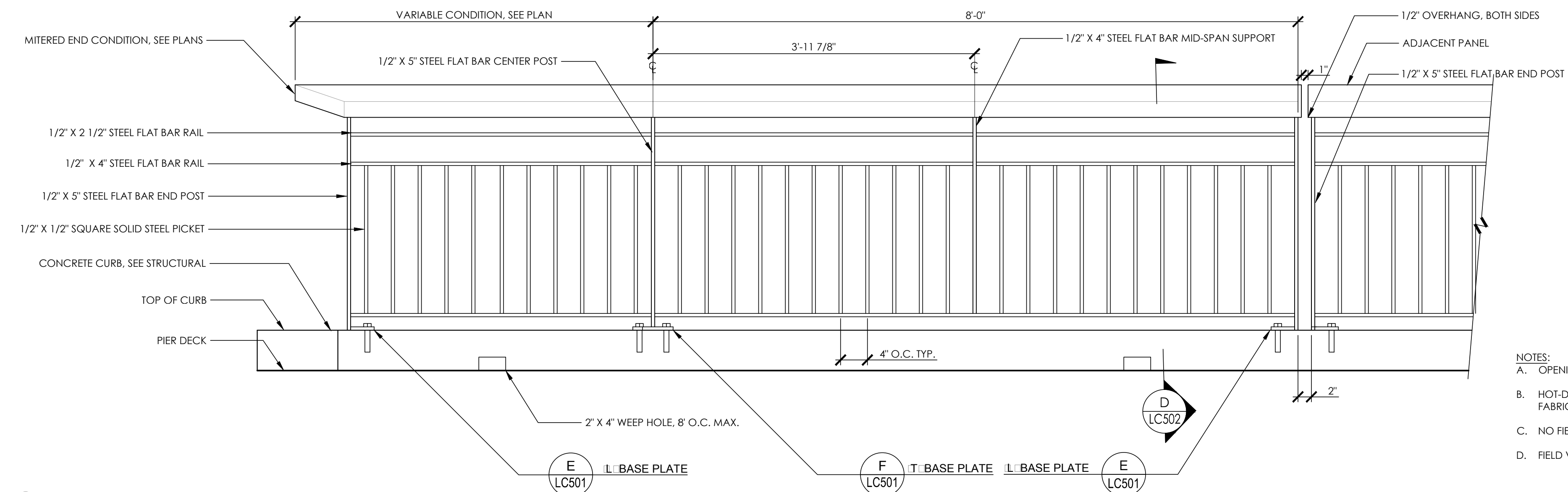
**D** TOP RAIL MITERED CORNER  
 1 1/2" = 1'-0"

0552-13



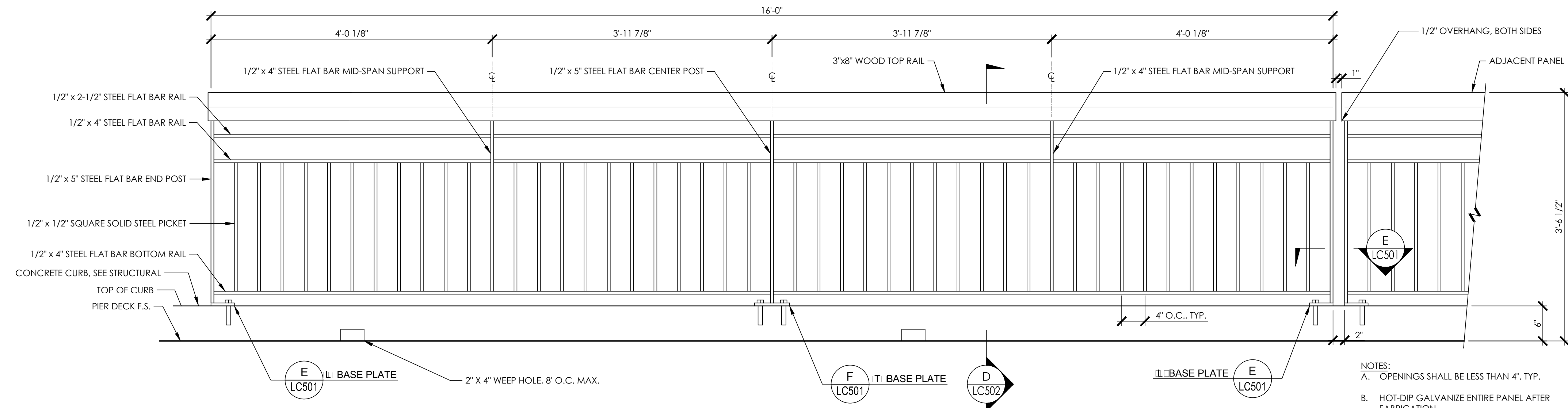
**C** RAILING - PANEL C  
 1" = 1'-0"

13-08



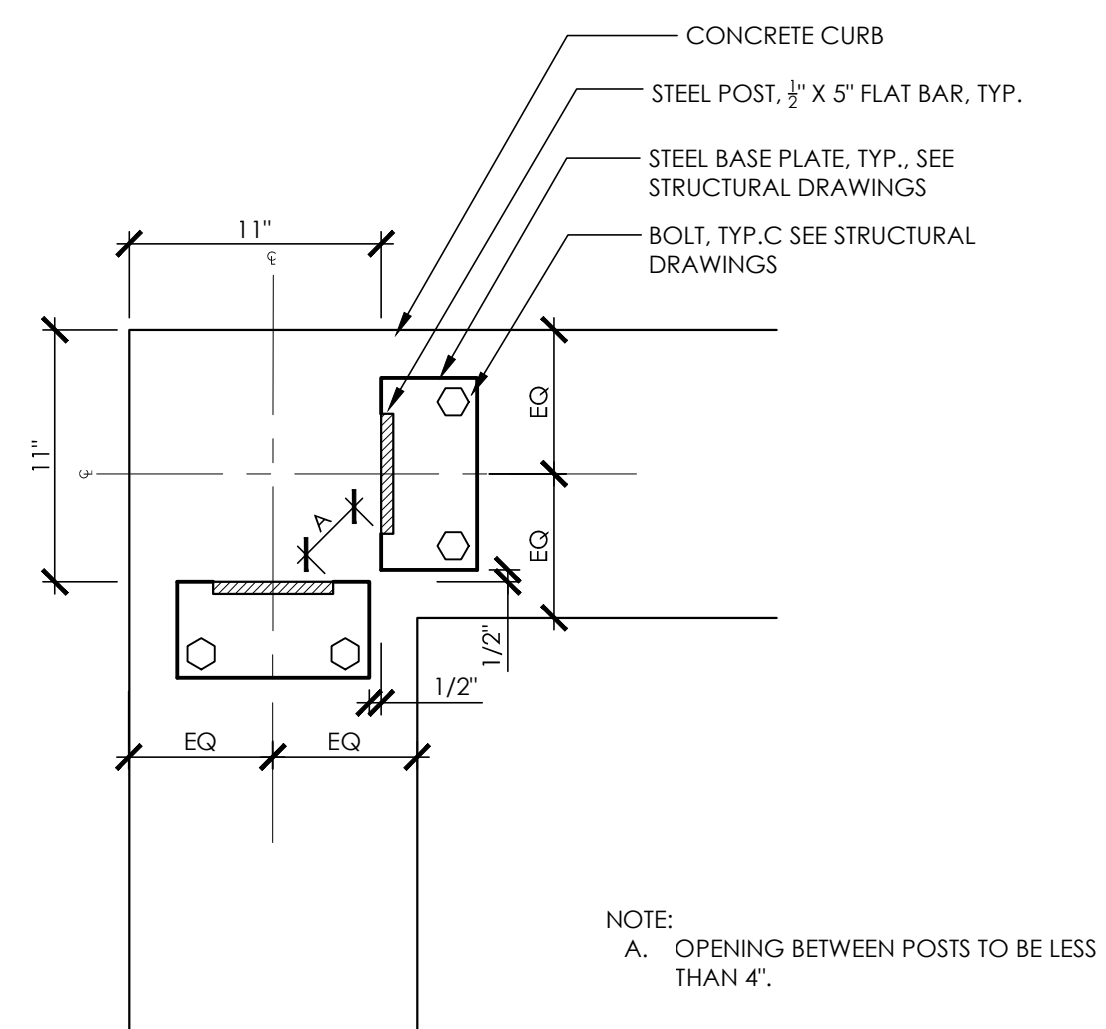
**B** RAILING - PANEL B  
 1" = 1'-0"

13-06

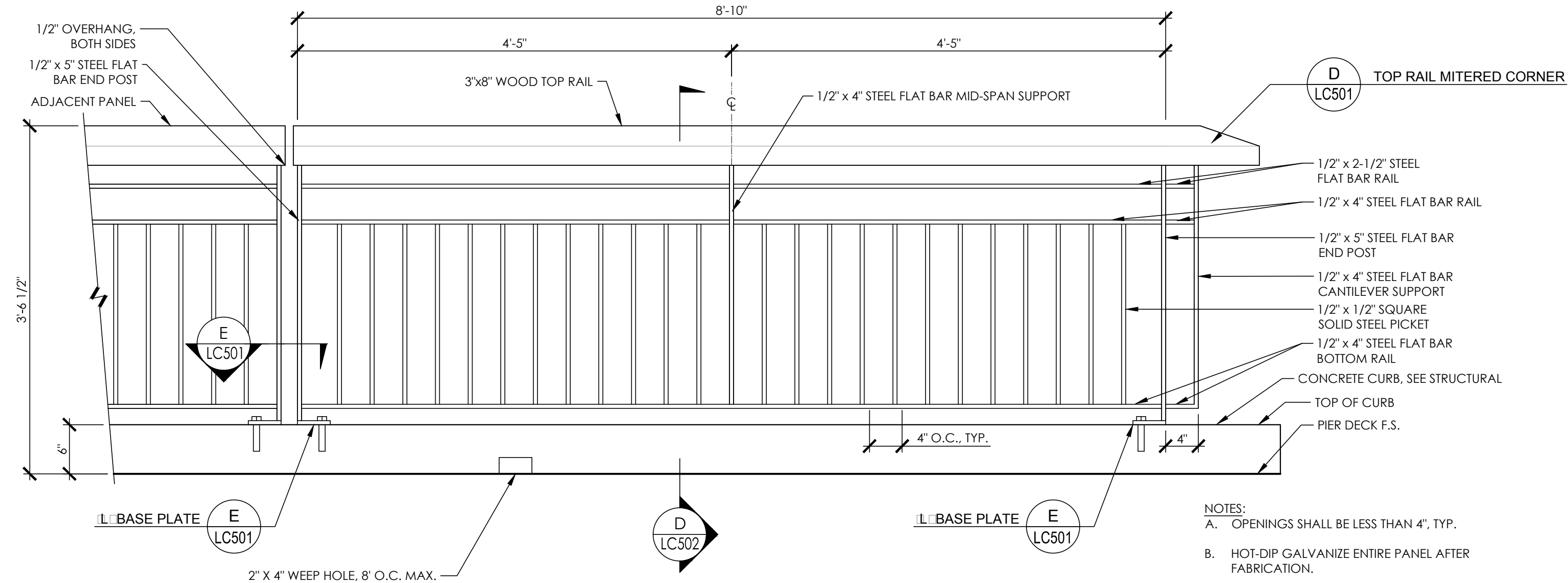


**A** RAILING - PANEL A  
 1" = 1'-0"

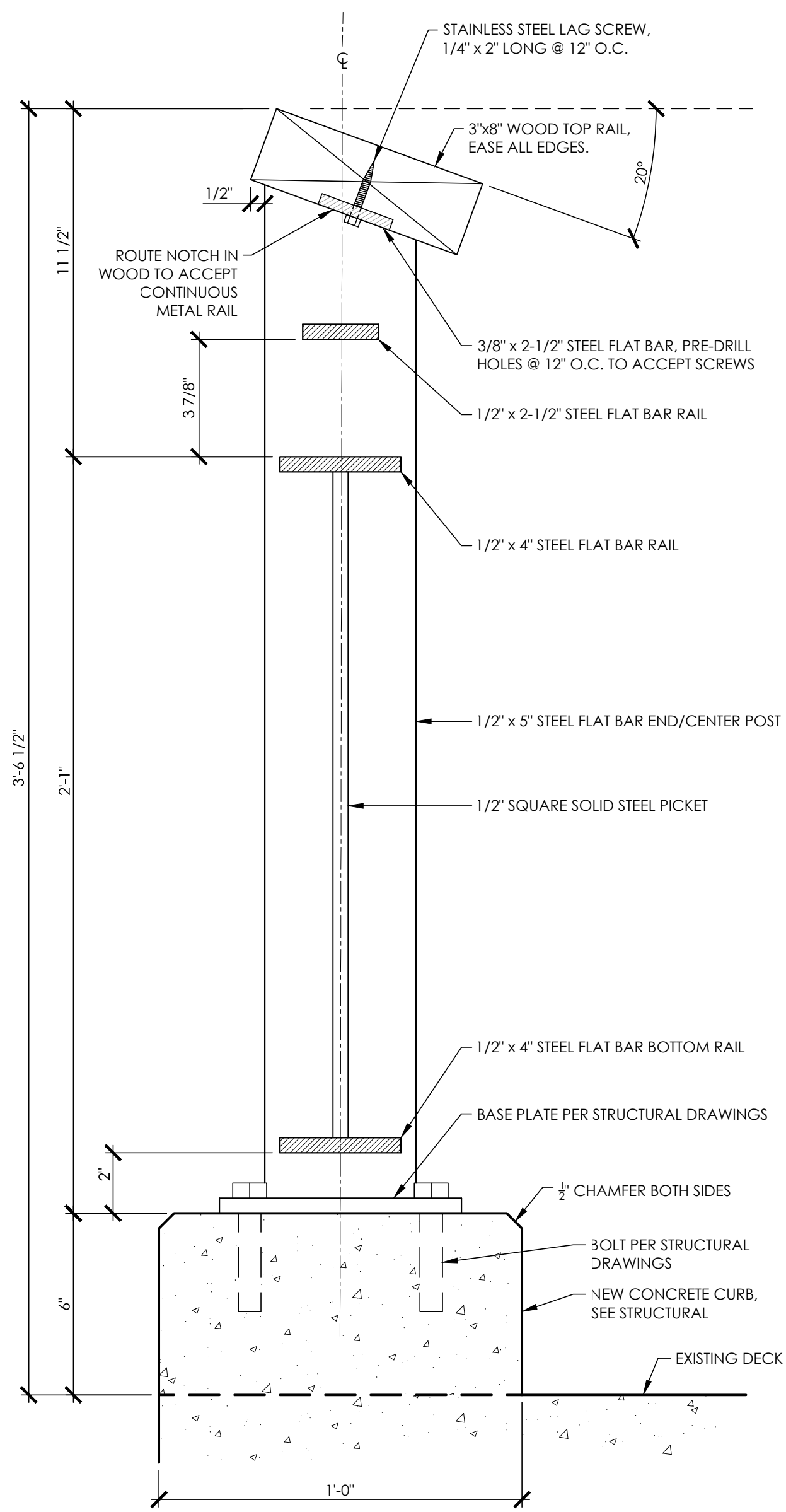
13-02



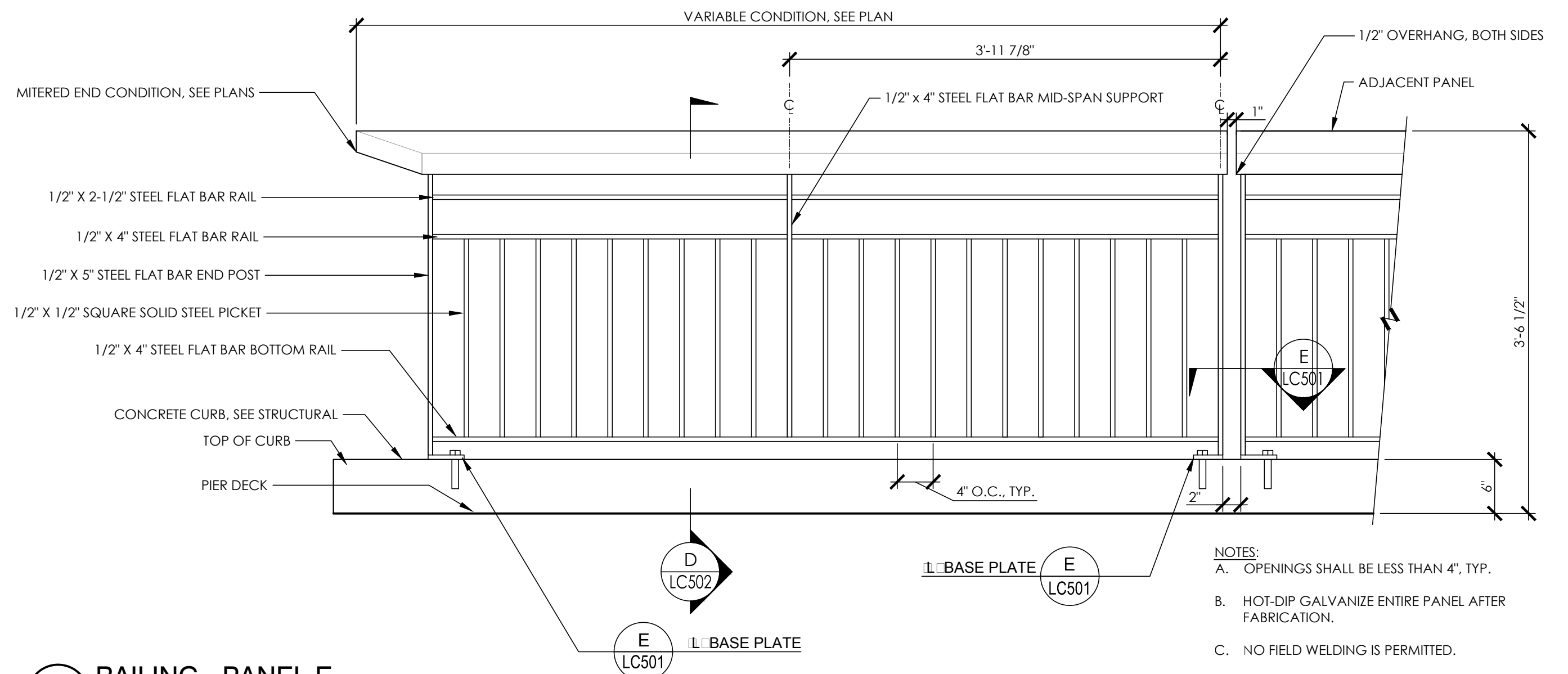
**E CORNER - CONDITION 1**  
 1 1/2" = 1'-0" 0552-11



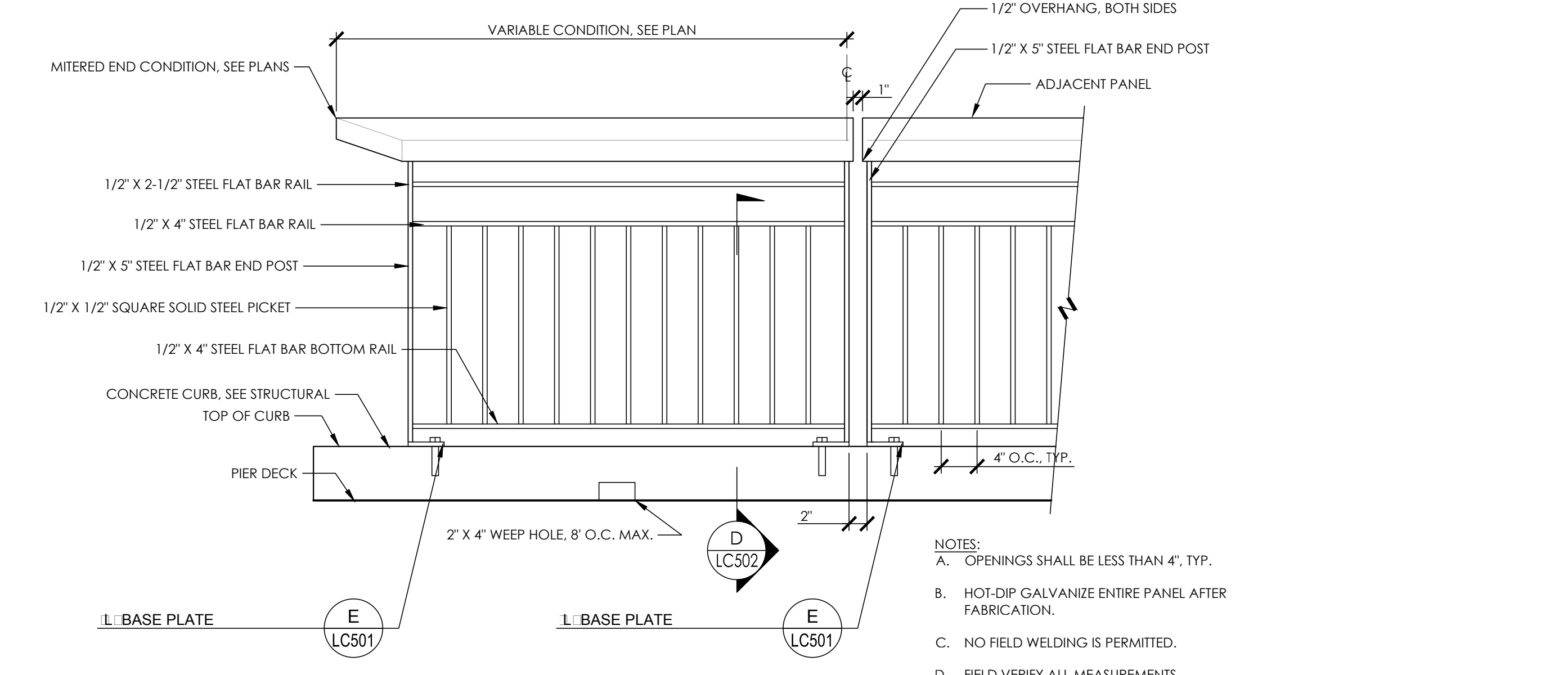
**C RAILING - PANEL F**  
 1" = 1'-0"



**D RAILING - SECTION**  
 3" = 1'-0" 13-01



**B RAILING - PANEL E**  
 1" = 1'-0" 13-05



**A RAILING - PANEL D**  
 1" = 1'-0" 13-07

PROJECT:  
**PARADISE BEACH  
 PARK PIER RAILING  
 AND CURB  
 REPLACEMENT**  
 3480 PARADISE DRIVE  
 TIBURON, CA 94920

PROJECT OWNER:  
**MARIN COUNTY  
 PARKS**  
 PRESERVATION-RECREATION

CONTACT:  
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REGISTRATION & SIGNATURE

LICENCED LANDSCAPE ARCHITECT  
 OLGA CHAVEZ No. 9010  
 Signature: 2/28/19  
 State: CALIFORNIA

DATE:  
 5/17/17

SUBMITTAL:  
**BID SET**

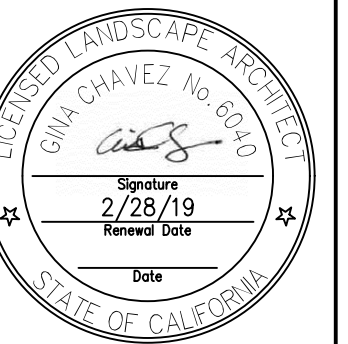
REVISIONS

No.	Date	Description

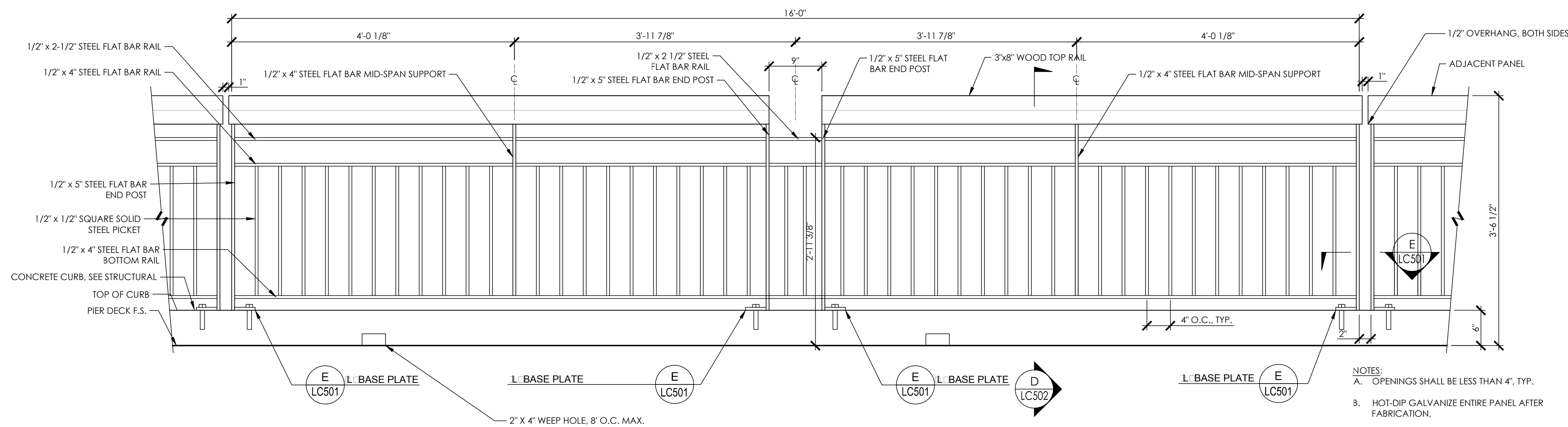
SHEET TITLE:  
 CONSTRUCTION  
 DETAILS

SHEET NUMBER:  
**LC502**



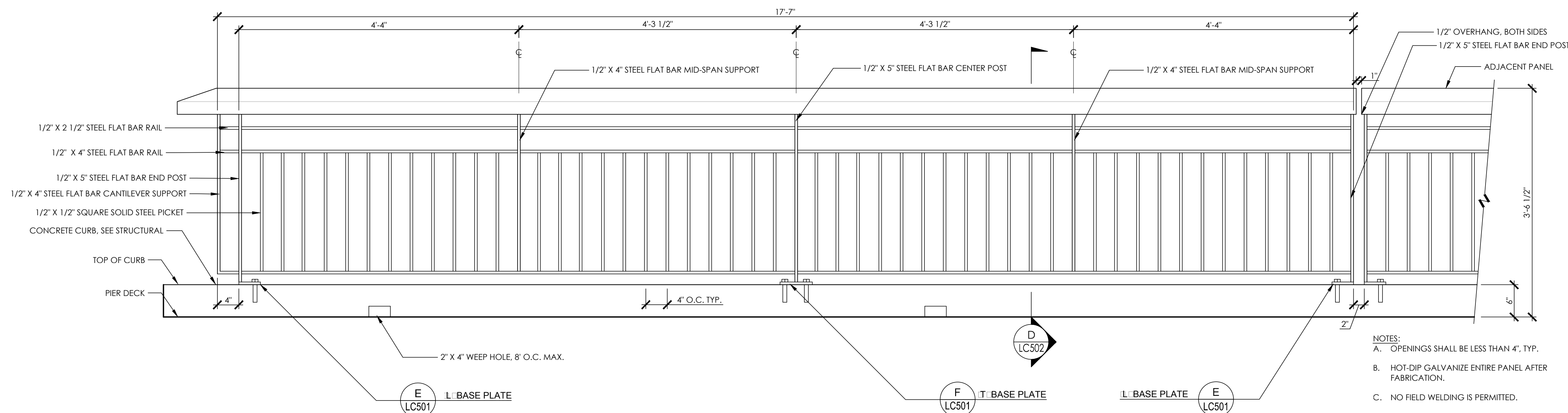


No.	Date	Description



**B** RAILING - PANEL H  
 1" = 1'-0"

13-03



**A** RAILING - PANEL G  
 1" = 1'-0"

13-10



**STRUCTURAL STEEL**

- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED BY AN APPROVED AND LICENSED FABRICATOR IN ACCORDANCE WITH AISC 360-10 AND CHAPTER 22 OF THE CODE.
- ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION AS INDICATED BELOW (UNO):
 

PLATES (AS NOTED ON DWGS)	A36 (GR 36)
ANCHOR RODS (AS NOTED ON DRAWINGS)	F1554 GR36
- THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STEEL FOR REVIEW AND APPROVAL BY THE AGR AND SEOR PRIOR TO FABRICATION.
- BOLT HOLES USED IN STEEL SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, EXCEPT AS NOTED.
- PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED TO REINFORCED CONCRETE/MASONRY USING POST-INSTALLED ANCHORS, CONTRACTOR SHALL LOCATE ALL REINFORCEMENT AND CONFIRM CONSTRUCTIBILITY OF ANCHOR LOCATIONS. SHOULD CONFLICTS WITH REINFORCEMENT OCCUR, CONTRACTOR SHALL COORDINATE AND SUBMIT ALTERNATE ANCHOR LOCATIONS AND REVISED STEEL FABRICATIONS TO SEOR FOR REVIEW AND APPROVAL. DO NOT CUT OR DAMAGE EXISTING REINFORCEMENT.
- ALL STRUCTURAL STEEL AND MISCELLANEOUS METAL EXPOSED TO THE WEATHER SHALL BE HOT DIP GALVANIZED AFTER FABRICATION, UNLESS CALLED OUT TO BE PAINTED ON THE CONSTRUCTION DOCUMENTS. PROTECT FIELD WELDS EXPOSED TO THE WEATHER VIA PRIME AND PAINT OR BRUSH / COLD GALVANIZING. REFER TO ARCH DRAWINGS FOR STEEL FINISH. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL CONFORM TO REQUIREMENTS OF AISC 303-10.
- ALL WELDING IS TO BE DONE BY CERTIFIED WELDERS USING E70XX ELECTRODES (UNO). ALL WELDS SHALL BE IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS AND THE CODE FOR WELDING IN BUILDING CONSTRUCTION (AWS D1.1:10) OF THE AMERICAN WELDING SOCIETY. SEE SPECIAL INSPECTIONS SECTION FOR WELDING INSPECTION REQUIREMENTS.

**REINFORCING STEEL (CONT.)**

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE (NON-PRESTRESSED):		MINIMUM COVER, IN.
A.	CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
B.	CONCRETE EXPOSED TO EARTH OR WEATHER: NO. 4 THROUGH NO. 18 BAR NO. 5 BAR, W31 OR D31 WIRE & SMALLER	2 1 1/2"
C.	CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS: NO. 14 AND NO. 18 BARS NO. 11 BAR & SMALLER BEAMS, COLUMNS: PRIMARY REINFORCEMENT TIES, STIRRUPS, SPIRALS	1 1/2" 1 1/2"

- MECHANICAL BAR SPICE CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-14 SECTION 25.5.7 USE OF MECHANICAL CONNECTIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. SPICES MUST BE TESTED AS INDICATED IN THE CONCRETE REINFORCEMENT SPECIFICATION. ACCEPTABLE PRODUCTS INCLUDE:
  - LENTON STANDARD COUPLERS (APMO-ES 0129)
  - LENTON FORM SAVERS, TYPE 5A (APMO-ES 0129)
  - LENTON WELDABLE HALF COUPLERS (APMO-ES 0129)
  - LENTON LOCK COUPLERS PER (APMO-ES 0129)
 NOTE THAT REBAR ATTACHED TO PLATE USING LENTON WELDABLE HALF COUPLERS SHALL BE ASTM A706 PER (APMO-ES 0129).
- ALL MECHANICAL BAR SPICE CONNECTIONS IN SPECIAL STRUCTURAL WALLS, SPECIAL MOMENT FRAMES AND CONCRETE DIAPHRAGMS SHALL BE TYPE 2 CONFORMING TO THE REQUIREMENTS OF ACI 318-14 SECTION 18.2.7 & 18.12.7.4

**STATEMENT OF SPECIAL INSPECTIONS**

- THIS STATEMENT OF SPECIAL INSPECTIONS HAS BEEN PREPARED PURSUANT TO SECTION 1704.3 OF THE CODE. THIS SECTION DETAILS BOTH REQUIRED SPECIAL INSPECTIONS AND TESTS INCLUDING TESTING PER SECTION 1705 OF THE CODE. THE FOLLOWING SHALL BE OBSERVED DURING THEIR IMPLEMENTATION:
  - GENERAL:
    - STRUCTURAL VERIFICATIONS, INSPECTIONS AND TESTS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE CODE AND/OR THE APPLICABLE REFERENCE STANDARD.
  - OWNER REQUIREMENTS:
    - THE OWNER OR OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN SECTION 1705 OF THE CODE AND IN THIS STATEMENT OF INSPECTIONS.
  - SPECIAL INSPECTOR QUALIFICATIONS:
    - THE SPECIAL INSPECTIONS SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING HIS OR HER COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING. THE 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 MATERIAL QUANTITIES.
  - CONTRACTOR REQUIREMENTS:
    - SPECIAL INSPECTION IS IN ADDITION TO THE CONTRACTOR'S QUALITY CONTROL INSPECTIONS AND TESTING. THE CONTRACTOR'S QUALITY CONTROL INSPECTIONS AND TESTING SHALL OCCUR PRIOR TO SPECIAL INSPECTION AND REPORTS SHALL BE AVAILABLE TO THE SPECIAL INSPECTOR.
    - THE CONTRACTOR SHALL ENSURE THAT THE WORK FOR WHICH SPECIAL INSPECTION IS REQUIRED REMAINS ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION PURPOSES UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTION.
    - ANY CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
  - SPECIAL INSPECTOR REPORT REQUIREMENTS:
    - THE SPECIAL INSPECTOR SHALL KEEP RECORD OF INSPECTIONS
    - THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE ARCHITECT AND ENGINEER OF RECORD.
    - REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS.
    - DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
    - IF NOT CORRECTED DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO THE COMPLETION OF THAT PHASE OF WORK.
    - A FINAL REPORT DOCUMENTING SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED SHALL BE SUBMITTED TO THE BUILDING OFFICIAL.

CONCRETE CONSTRUCTION CODE TABLE 1705.3						
SPECIAL INSPECTION OR TEST	CON-1705.3.1	CON-1705.3.2	CON-1705.3.3	CON-1705.3.4	REFERENCED STANDARD	CBC REFERENCE
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	---	X	---	---	ACI 318: CH 20, 25.2, 25.3, 26.5.1-26.5.3	1908.4
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 3/8" AND c. INSPECT ALL OTHER WELDS	---	X	---	---	---	---
3. INSPECT ANCHORS CAST IN CONCRETE	---	X	---	---	ACI 318: 17.8.2	---
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS (a) (a) ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS (b) MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	X	---	X	---	ACI 318: 17.8.2.4 ACI 318: 17.8.2	---
5. VERIFY USE OF REQUIRED MIX DESIGN	---	X	---	---	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---	---	---	ASTM C 172 ASTM C 31 ACI 318: 26.4.5, 26.12	1908.10
7. INSPECT CONCRETE FOR PROPER APPLICATION TECHNIQUES	X	---	---	---	ACI 318: 26.4.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X	---	---	ACI 318: 26.4.7-26.4.9	1908.9
12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X	---	---	ACI 318: 26.10.1 (b)	---

**CONCRETE**

- ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318-14
- CONCRETE MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

MATERIAL	ASTM STANDARD
PORTLAND CEMENT (TYPE II)*	C150
CONCRETE AGGREGATES (HARDROCK)	C33
WATER*	C1602
COAL FLY ASH OR POZZOLAN (CLASS F)	C618
NATURAL OR MANUFACTURED SAND	C33

- FOR SOILS WITH HIGH CONCENTRATIONS OF SULFATES (EXPOSURE S2 OR S3 PER ACI 318-14 TABLE 19.3.2.1) PORTLAND CEMENT SHALL BE TYPE V. VERIFY WITH PROJECT GEOTECHNICAL REPORT.
- WATER SHOULD ONLY BE ADDED AT THE BATCH PLANT. IN NO CASE SHALL THE DESIGN WATER/CEMENT RATIO BE EXCEEDED

LOCATION IN STRUCTURE	MINIMUM STRENGTH (PSI)	DENSITY (PCF)	MAX SLUMP (In±)	MAX WATER/CEMENT RATIO	FLY ASH BY WT (MAX)
CURBS AND OTHER NON-STRUCTURAL CONCRETE	3,000	150	4	0.5	0.15

- READY MIXED CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C94 OR C685
- DEPOSITING AND CONVEYING OF CONCRETE SHALL CONFORM TO SECTION 26.5 OF ACI 318-14 AND PROJECT SPECIFICATIONS.
- CONCRETE MIXES SHALL BE PROPORTIONED BASED ON SECTION 26.4.3 OF ACI 318-14. SCHEDULE OF STRUCTURAL CONCRETE STRENGTHS AND LOCATIONS (UNO):
- CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED SHALL BE CLEANED AND ROUGHENED TO 1/4" AMPLITUDE.
- ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED WITHOUT SEOR APPROVAL. NOTIFY THE SEOR IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS. SEE THE DRAWINGS FOR ADDITIONAL RESTRICTIONS ON THE PLACEMENT OF OPENINGS IN SLABS AND WALLS.
- PIPES EMBEDDED IN CONCRETE:
  - CONCRETE
    - PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY SEOR.
    - NO CONDUITS SHALL BE PLACED IN CONCRETE FILL OVER METAL DECK.
    - PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS.
    - DO NOT STACK CONDUITS. SPACE EMBEDDED PIPES AND CONDUITS AT A MINIMUM OF AT A MINIMUM OF 3 DIAMETERS CLEAR FROM OTHER EMBEDDED PIPES/CONDUITS AND REBAR.

**REINFORCING STEEL**

- REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318-14, ASTM A706, GRADE 60 UNO, ASTM A615 GR 60 STEEL, MAY BE SUBSTITUTED FOR ASTM A706 GR60 STEEL PER ACI 318-14 SECTION 20.2.2.5 PROVIDED THE FOLLOWING CONDITIONS ARE MET:
  - THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI.
  - THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.
  - WHERE REINFORCEMENT COMPLYING WITH ASTM A615 IS TO BE WELDED, CHEMICAL TESTS SHALL BE PERFORMED TO DETERMINE WELDABILITY IN ACCORDANCE WITH SECTION 26.6.4 OF ACI 318-14.
- BARS SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- WELDED WIRE REINFORCEMENT (WWR), PLAIN OR DEFORMED, SHALL CONFORM TO ASTM A185. WELDED DEFORMED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A1064. ALL WWR FOR STAIR PANS AND ALL WWR FOR CONCRETE FILL ON METAL DECK TO BE PLAIN WWR. PROVIDE LAPS PER ACI 318-14 SECTION 25.5.3 OR 25.5.4 MINIMUM. WWR SHALL BE SUPPORTED ON APPROVED CHAIRS.
- REINFORCING BAR LAP SPICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS. STAGGER ALL SPICES UNLESS NOTED OTHERWISE ON PLANS.
  - MINIMUM LAP SPICE LENGTH FOR REINFORCING STEEL BARS IN CONCRETE SHALL BE PER ACI 318-14 SECTION 25.5.2 AND THE REINFORCING SCHEDULE ON THE DRAWINGS.
  - MINIMUM LAP SPICE LENGTH FOR REINFORCING STEEL BARS IN MASONRY SHALL BE PER ACI 530-11 SECTION 8.1.6.7.1 OR 9.3.3.4 AND THE REINFORCING SCHEDULE ON THE DRAWINGS.
- ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE. ALL REINFORCING CONFORMING TO DIFFERING ASTM SPECIFICATIONS AND/OR OF DIFFERING GRADES SHALL BE CLEARLY MARKED TO DIFFERENTIATE THEM FROM OTHER REINFORCING STEEL IF CONCURRENTLY PRESENT ON SITE.
- WHERE WELDING OF REINFORCING IS APPROVED BY THE STRUCTURAL ENGINEER, IT SHALL BE DONE BY AWS CERTIFIED WELDERS USING E80XX OR APPROVED ELECTRODES. WELDING PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF STRUCTURAL WELDING CODE- REINFORCING STEEL, AWS-D1.4-15. REINFORCING BARS TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706.
- REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SUPPORTED BEFORE THE CONCRETE IS PLACED AND SHALL BE SECURED AGAINST DISPLACEMENT DURING CONSTRUCTION WITHIN PERMITTED TOLERANCES. ADEQUATE SUPPORTS ARE ALSO NECESSARY TO KEEP THE REINFORCING STEEL AT THE PROPER DISTANCE FROM THE FORMS. USE WIRE BAR SUPPORTS, PRECAST CONCRETE SUPPORTS, SPACERS, BOLSTERS, REINFORCEMENT OR OTHER MEANS OF SUPPORT PER THE "CRSI MANUAL OF STANDARD PRACTICE", LATEST EDITION.
- REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE "CRSI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST EDITION.
- COMPLETE AND DETAILED REINFORCING PLACEMENT DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ARCHITECT FOR APPROVAL BY THE SEOR PRIOR TO FABRICATION IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE CODES. THESE DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO PLACING OF CONCRETE. THE REINFORCING PLACEMENT DRAWINGS SHALL INCLUDE ALL PRIMARY REINFORCEMENT, LAP SPICES, TIES, DOWELS, HEADED U-DOWELS, EMBED PLATES, ANCHOR BOLTS, ETC. AREAS OF CONGESTION SHALL BE DETAILED SUFFICIENTLY TO DEMONSTRATE THAT PLACEMENT OF REBAR MEETS SPACING REQUIREMENTS OF ACI 318-14.
- MILL TEST REPORTS FOR GRADE 60 BARS SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD PRIOR TO PLACEMENT OF CONCRETE PER ACI 318-14 SECTION 26.13.2.3 OF THE CODE.
- WHEN REQ'D, INSPECTION OF CONCRETE SHALL INCLUDE INSPECTION DURING INSTALLATION OF REINFORCING STEEL. INSPECTION SHALL BE SCHEDULED SO THAT PLACEMENT OF REINFORCING STEEL, CONDUIT, SLEEVES, AND EMBEDDED ITEMS MAY BE CORRECTED PRIOR TO PLACEMENT OF OVERLYING GRIDS OR REINFORCING STEEL.

**DESIGN INFORMATION**

FLOOR LIVE LOADS			
OCCUPANCY OR USE	UNIFORM (PSF)	CONC. (LBS)	REFERENCE
NA	---	---	---

ROOF LIVE LOADS			
OCCUPANCY OR USE	UNIFORM (PSF)	CONC. (LBS)	REFERENCE
ROOF NA	---	---	---

SNOW DESIGN DATA		
PARAMETER	VALUE	REFERENCE
GROUND SNOW LOAD	Pg = 0 PSF	ASCE 7-10 7.2

WIND DESIGN DATA		
PARAMETER	VALUE	REFERENCE
ULTIMATE DESIGN WIND SPEED (3-SEC GUST)	V <sub>ult</sub> = 110 MPH	2016 CBC FIG. 1609.3
NOMINAL DESIGN WIND SPEED (3-SEC GUST)	V <sub>100</sub> = 85 MPH	2016 CBC 1609.3.1
EXPOSURE CATEGORY	D	2016 CBC 1609.4.3
INTERNAL PRESSURE COEFFICIENT:	GCPi = 0	ASCE 7-10 TABLE 26.11-1

- EARTHQUAKE DESIGN DATA (2016 CBC SECTION 1603.1.5):

SITE AND OCCUPANCY PARAMETERS		
PARAMETER	VALUE	REFERENCE
RISK CATEGORY	II	2016 CBC TABLE 1604.5
SEISMIC IMPORTANCE FACTOR	I = 1.0	ASCE 7-10 TABLE 15-2
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	S <sub>s</sub> = 1.50 S <sub>1</sub> = 0.60	2016 CBC 1613.3.1
SITE CLASS	D	2016 CBC 1613.3.2
SPECTRAL RESPONSE COEFFICIENTS:	S <sub>DS</sub> = 1.00 S <sub>D1</sub> = 0.60	2016 CBC 1613.3.4

- GEOTECHNICAL INFORMATION (2016 CBC SECTION 1603.1.6):  
REFER TO FOUNDATION GENERAL NOTES

- FLOOD DESIGN DATA: (2016 CBC SECTION 1603.1.7)

THIS PROJECT IS NOT LOCATED WITHIN A FLOOD PLAIN.

**GENERAL**

- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES AND STANDARDS:
  - 2016 CALIFORNIA BUILDING CODE, PART 2, VOLUME 2 OF 2, AND TITLE 24 C.C.R., 2016 EDITION AND LATEST REVISIONS (INCLUDING SUPPLEMENTS AND ERRATA) HEREIN REFERRED TO AS "THE CODE".
  - ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (CAL/OSHA).
  - CODES & STANDARDS REFERENCED IN THE CODE OR LISTED IN THESE NOTES AND SPECIFICATIONS.
- ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. IN NO INSTANCE SHALL DIMENSIONS BE SCALED FROM THE DRAWINGS.
- SEE LANDSCAPE DRAWINGS FOR THE FOLLOWING:
  - HEIGHT AND/OR ELEVATION OF:
    - FINISHED SURFACE
    - TOP OF RAILING
    - TOP OF CURB
  - SITE CONCRETE WALKWAYS, CURBS & PAVING
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC. THE CONTRACTOR IS RESPONSIBLE FOR PROVISION OF TEMPORARY SHORING AND OTHER CONSTRUCTION AIDS, INCLUDING ALL ENGINEERING OF SUCH SYSTEMS, FOR TEMPORARY SUPPORT OF NEW AND/OR EXISTING STRUCTURAL ELEMENTS AS REQUIRED FOR ERECTION AND OTHER CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION (UNO). OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS OR CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY.
- THE CONTRACT STRUCTURAL DRAWINGS SHOW THE BUILDING IN ITS FINAL INTENDED POSITION. CONTRACTOR SHALL MAKE PROVISIONS IN THE LAYOUT OF THE BUILDING TO TAKE INTO ACCOUNT SHRINKAGE, CREEP, SHORTENING, ETC..
- ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE THE VERSION REFERENCED IN CHAPTER 35 OF THE CODE OR AS REFERENCED IN THE APPLICABLE DESIGN STANDARD.
- CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED PIER.

PROJECT:  
**PARADISE BEACH  
PARK PIER RAILING  
AND CURB  
REPLACEMENT**  
3460 PARADISE DRIVE  
TEBULAR, CA 94920

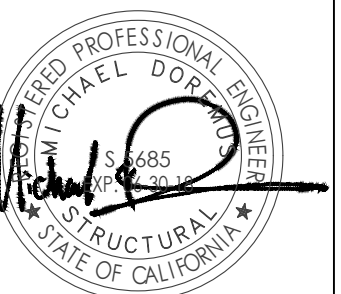


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REGISTRATION & SIGNATURE



DATE:  
**5/17/2017**

SUBMITTAL:  
**BID SET**

REVISIONS		
No.	Date	Description

SHEET TITLE:

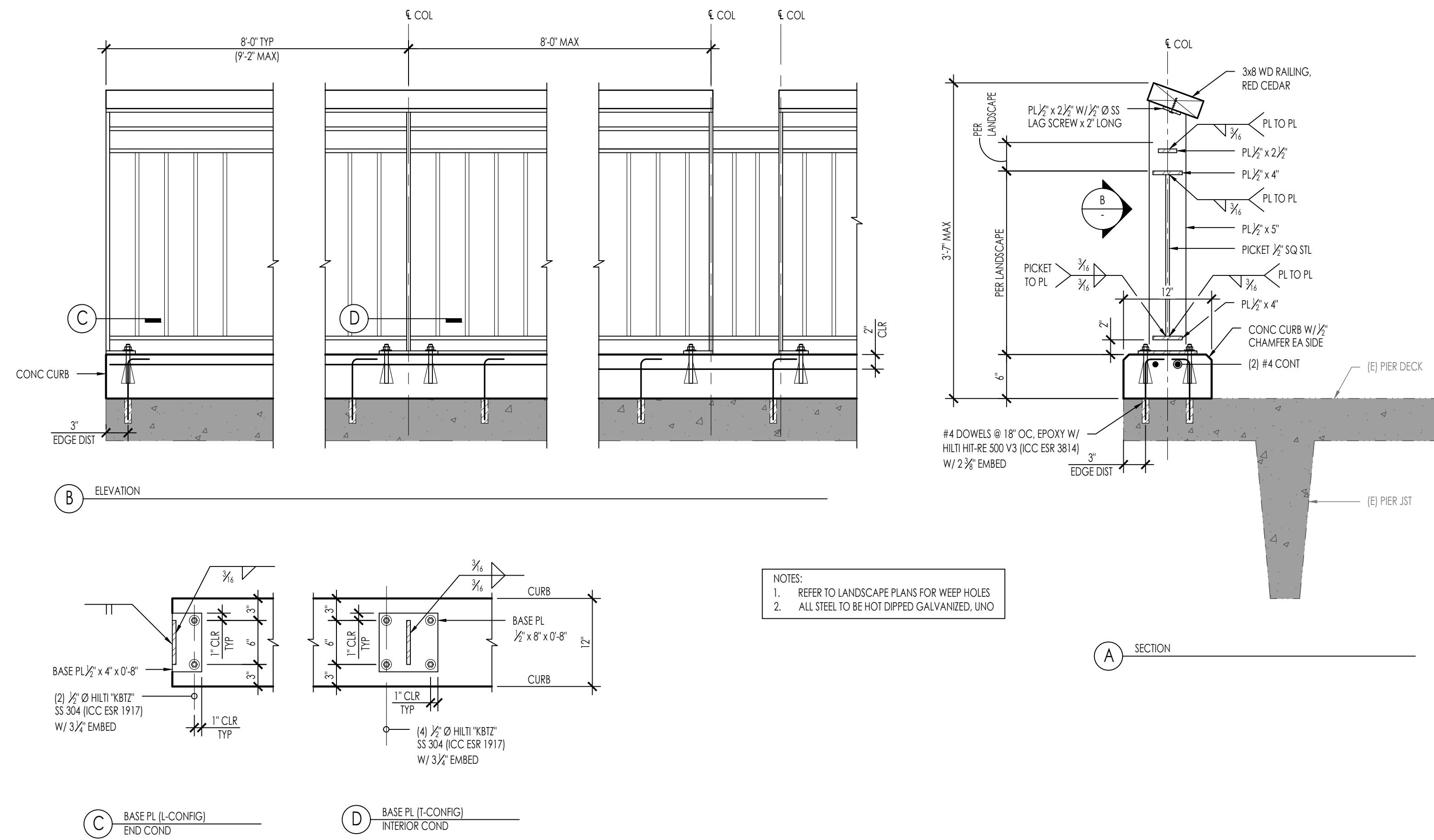
GENERAL NOTES

SHEET NUMBER:  
**S-1.0**



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REINFORCING TENSION DEVELOPMENT LENGTH AND LAP SPICE SCHEDULE

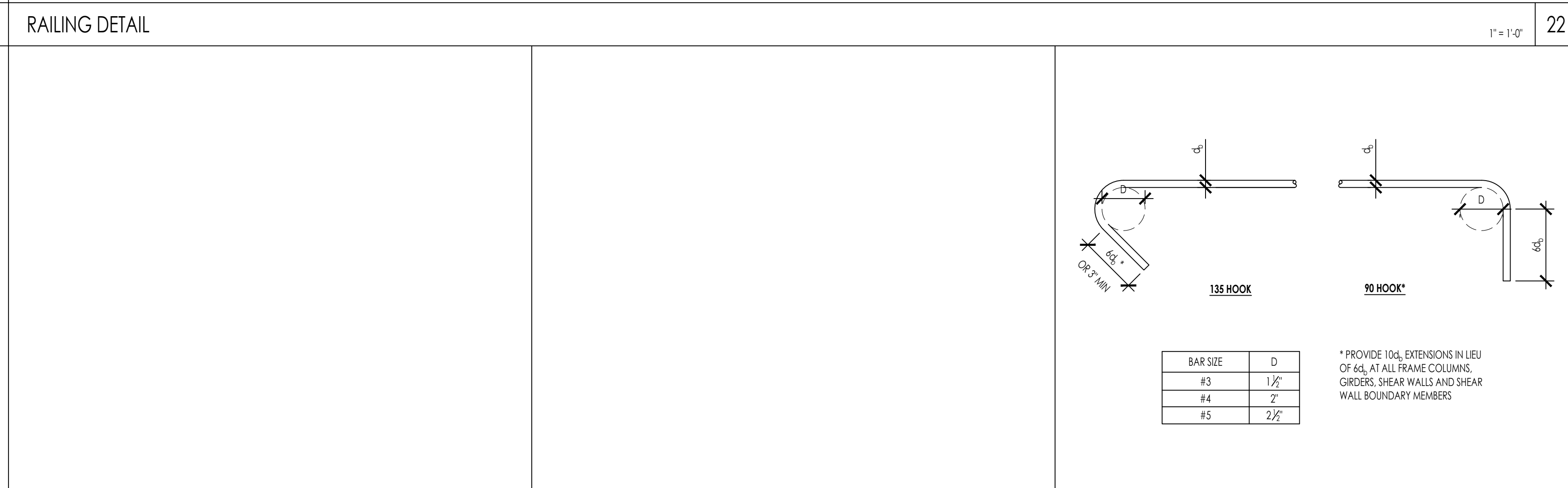
BAR SIZE	DEVELOPMENT LENGTH, $l_d$ (CLASS A LAP SPICE)	LAP SPICE, $l_s$ (CLASS B LAP SPICE)
	$f_c$ (psi)	$f_c$ (psi)
	3,000	3,000
#3	1'-5"	1'-10"
#4	1'-10"	2'-5"
#5	2'-4"	3'-0"
#6	2'-9"	3'-7"
#7	4'-0"	5'-2"
#8	4'-7"	5'-11"
#9	5'-2"	6'-9"
#10	5'-10"	7'-7"
#11	6'-6"	8'-5"

**NOTES:**  
 1. VALUES ABOVE ARE FOR REINFORCEMENT WITH THE FOLLOWING PARAMETERS:  
 A. GRADE 60 REINFORCEMENT  
 B. NORMAL WEIGHT CONCRETE  
    o. FOR LIGHTWEIGHT CONCRETE MULTIPLY THE VALUES ABOVE BY 1.3  
 C. NON-EPOXY COATED REINFORCEMENT  
 D. HORIZONTAL BARS WITHOUT 12" OF CONCRETE BELOW (BOTTOM BARS), AND VERTICAL BARS  
    o. FOR TOP BARS WITH 12" OR MORE OF CONCRETE BELOW THE BAR MULTIPLY THE VALUES ABOVE BY 1.3  
 E. CLEAR SPACING NO LESS THAN  $d_b$ , CLEAR COVER NOT LESS THAN  $d_b$ , AND STIRRUPS THROUGH  $l_d$ , NOT LESS THAN MIN OR  
    o. FOR OTHER SPACING AND COVER CONDITIONS MULTIPLY THE VALUES ABOVE BY 1.5  
 F. REINFORCEMENT NOT IN SHEAR WALLS  
    o. FOR REINFORCEMENT IN SHEAR WALLS MULTIPLY THE VALUES ABOVE BY 1.25  
 2. THE MULTIPLIERS LISTED IN NOTE 1 ABOVE ARE CUMULATIVE INCREASES IN DEVELOPMENT/LAP SPICE LENGTH.  
 3. ALL LAP SPICES REFERENCED IN THE PLANS SHALL BE CLASS B UNLESS NOTED OTHERWISE.  
 4. WHEN REINFORCING BARS OF TWO SIZES ARE LAP-SPLICED IN TENSION, USE THE LARGER OF THE TENSION CLASS B LAP SPICE LENGTH ( $l_s$ ) OF THE SMALLER BAR, AND THE CLASS A TENSION DEVELOPMENT LENGTH ( $l_d$ ) OF THE LARGER BAR.

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RAILING DETAIL

1" = 1'-0"



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REINFORCING TENSION DEVELOPMENT LENGTH AND LAP SPICE SCHEDULE

BAR SIZE	DEVELOPMENT LENGTH, $l_d$ (CLASS A LAP SPICE)	LAP SPICE, $l_s$ (CLASS B LAP SPICE)
	$f_c$ (psi)	$f_c$ (psi)
	3,000	3,000
#3	1'-5"	1'-10"
#4	1'-10"	2'-5"
#5	2'-4"	3'-0"
#6	2'-9"	3'-7"
#7	4'-0"	5'-2"
#8	4'-7"	5'-11"
#9	5'-2"	6'-9"
#10	5'-10"	7'-7"
#11	6'-6"	8'-5"

**NOTES:**  
 1. VALUES ABOVE ARE FOR REINFORCEMENT WITH THE FOLLOWING PARAMETERS:  
 A. GRADE 60 REINFORCEMENT  
 B. NORMAL WEIGHT CONCRETE  
    o. FOR LIGHTWEIGHT CONCRETE MULTIPLY THE VALUES ABOVE BY 1.3  
 C. NON-EPOXY COATED REINFORCEMENT  
 D. HORIZONTAL BARS WITHOUT 12" OF CONCRETE BELOW (BOTTOM BARS), AND VERTICAL BARS  
    o. FOR TOP BARS WITH 12" OR MORE OF CONCRETE BELOW THE BAR MULTIPLY THE VALUES ABOVE BY 1.3  
 E. CLEAR SPACING NO LESS THAN  $d_b$ , CLEAR COVER NOT LESS THAN  $d_b$ , AND STIRRUPS THROUGH  $l_d$ , NOT LESS THAN MIN OR  
    o. FOR OTHER SPACING AND COVER CONDITIONS MULTIPLY THE VALUES ABOVE BY 1.5  
 F. REINFORCEMENT NOT IN SHEAR WALLS  
    o. FOR REINFORCEMENT IN SHEAR WALLS MULTIPLY THE VALUES ABOVE BY 1.25  
 2. THE MULTIPLIERS LISTED IN NOTE 1 ABOVE ARE CUMULATIVE INCREASES IN DEVELOPMENT/LAP SPICE LENGTH.  
 3. ALL LAP SPICES REFERENCED IN THE PLANS SHALL BE CLASS B UNLESS NOTED OTHERWISE.  
 4. WHEN REINFORCING BARS OF TWO SIZES ARE LAP-SPLICED IN TENSION, USE THE LARGER OF THE TENSION CLASS B LAP SPICE LENGTH ( $l_s$ ) OF THE SMALLER BAR, AND THE CLASS A TENSION DEVELOPMENT LENGTH ( $l_d$ ) OF THE LARGER BAR.

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REINFORCING TIES AND STIRRUPS

NTS

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STANDARD HOOK DEVELOPMENT LENGTH " $l_{dh}$ "			
BAR SIZE	D	$l_{dh}$	NORMAL WEIGHT
			3,000
#3	2 1/4"	6"	0'-9"
#4	3"	8"	0'-11"
#5	3 3/4"	10"	1'-2"
#6	4 1/2"	12"	1'-5"
#7	5 1/4"	1'-2"	1'-8"
#8	6"	1'-4"	1'-10"
#9	9 1/2"	1'-7 1/2"	2'-1"
#10	10 3/4"	1'-10"	2'-4"
#11	12"	2'-0 1/2"	2'-7"

**NOTES:**  
 1. ALL HOOKED BARS SHALL EXTEND AS FAR AS POSSIBLE WITH A MINIMUM 2" END COVER AND WITH EMBEDMENT NOT LESS THAN SHOWN ON THE SCHEDULE UNLESS NOTED OTHERWISE ON PLANS.  
 2. MINIMUM SIDE COVER = 2 1/2".  
 3. FOR LIGHTWEIGHT CONCRETE MULTIPLY LENGTHS IN SCHEDULE BY 1.3.

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REINFORCING HOOK DEVELOPMENT LENGTH AND BENDS

NTS

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PROJECT:  
**PARADISE BEACH PARK PIER RAILING AND CURB REPLACEMENT**  
 3450 PARADISE DRIVE  
 TIBURON, CA 94920

PROJECT OWNER:  
**MARIN COUNTY PARKS**  
 PRESERVATION · RECREATION

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DATE:  
**5/17/2017**

SUBMITTAL:  
**BID SET**

REVISIONS:

No.	Date	Description

SHEET TITLE:  
**CONCRETE DETAILS**

SHEET NUMBER:  
**S-1.1**