

# COUNTY OF LOS ANGELES DEPARTMENT OF BEACHES AND HARBORS

## MARINA DEL REY PARCEL 77 BOAT TRAILER PARKING IMPROVEMENTS

### PROJECT DESCRIPTION/SCOPE OF WORK

1. THIS PROJECT INCLUDES RECONFIGURATION IMPROVEMENTS TO PARKING AREAS AND CONSTRUCTION OF BOAT STORAGE FACILITIES, AT THE MARINA DEL REY BOAT STORAGE PARKING AREA, PARCEL 77, MINDANAO WAY.
2. THE SCOPE OF WORK INCLUDES DEMOLITION, MINOR CONCRETE, CURB, AC PAVEMENT AREAS, STRIPING AND SIGNAGE, GATE REPAIRS, CONSTRUCTION OF BOAT AND OAR STORAGE RACKS, AND OTHER WORK AS DELINEATED ON THE PLANS.

### GENERAL NOTES

1. CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF BEACHES & HARBORS AT (310)-305-9505 A MINIMUM OF TWO WORKING DAYS PRIOR TO WORK AT THE SITE.
2. ALL LANDSCAPING AND IRRIGATION SHALL BE PROTECTED IN PLACE OR REPAIRED/REPLACED TO THE SATISFACTION OF THE DEPARTMENT OF BEACHES & HARBORS, UNLESS OTHERWISE NOTED ON THE PLANS.
3. NO TRENCHING OR UNDERGROUND WORK FOR WATER LINES, ELECTRICAL CONDUIT OR IRRIGATION SHALL BE BURIED WITHOUT INSPECTION BY THE DEPARTMENT OF BEACHES & HARBORS.
4. SUBSTRUCTURE NOTATION: THE LOCATIONS OF THE EXISTING SUBSTRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THERE IS NO ASSURANCE THAT THE EXISTING SUBSTRUCTURES ARE ACCURATE, OR THAT ALL THE EXISTING SUBSTRUCTURES ARE SHOWN ON THESE PLANS.

### SURVEY INFORMATION

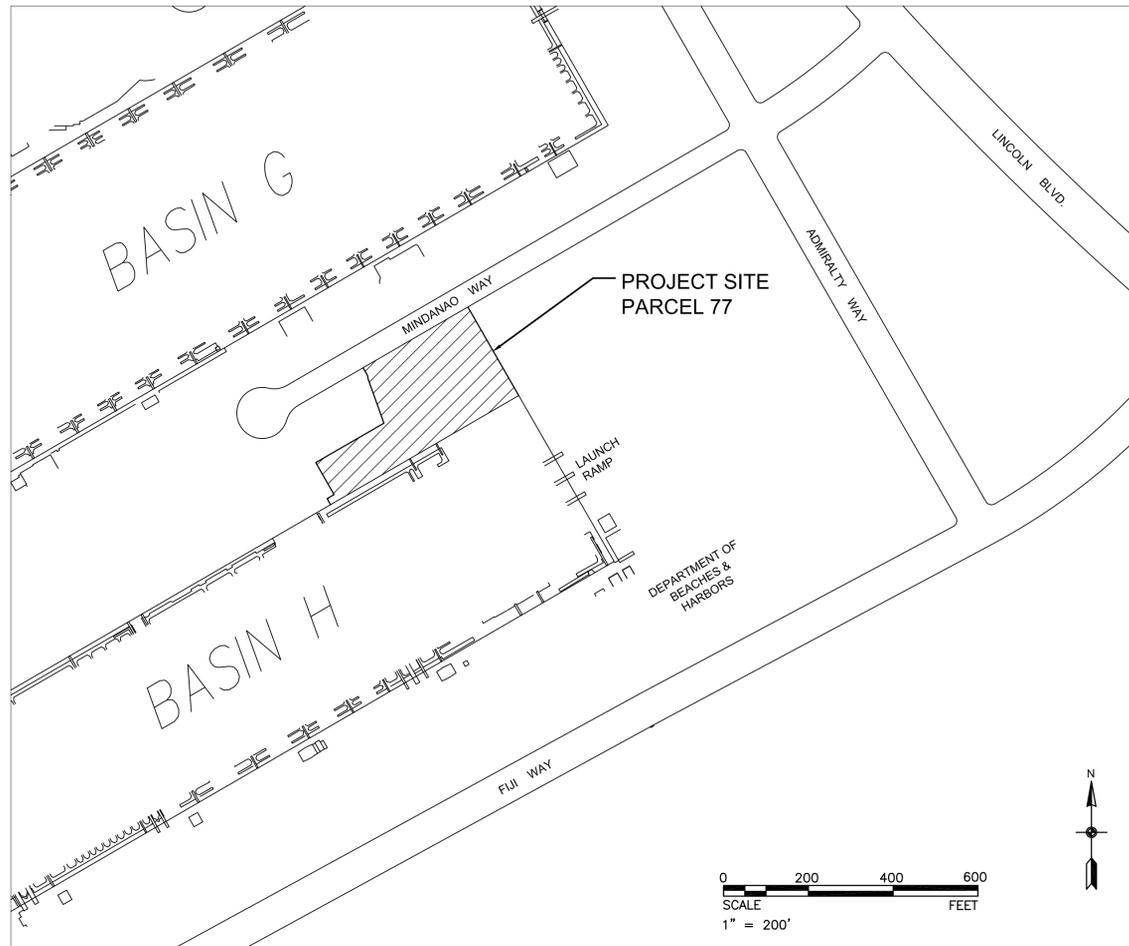
TOPOGRAPHIC INFORMATION PROVIDED BY:

SURVEYING & DRAFTING SERVICES, INC.  
434 NORTH VISTA STREET  
LOS ANGELES, CALIFORNIA 90036  
(323) 857-1017

DATE OF SURVEY: OCTOBER 11, 2011

HORIZONTAL DATUM: NAD 83

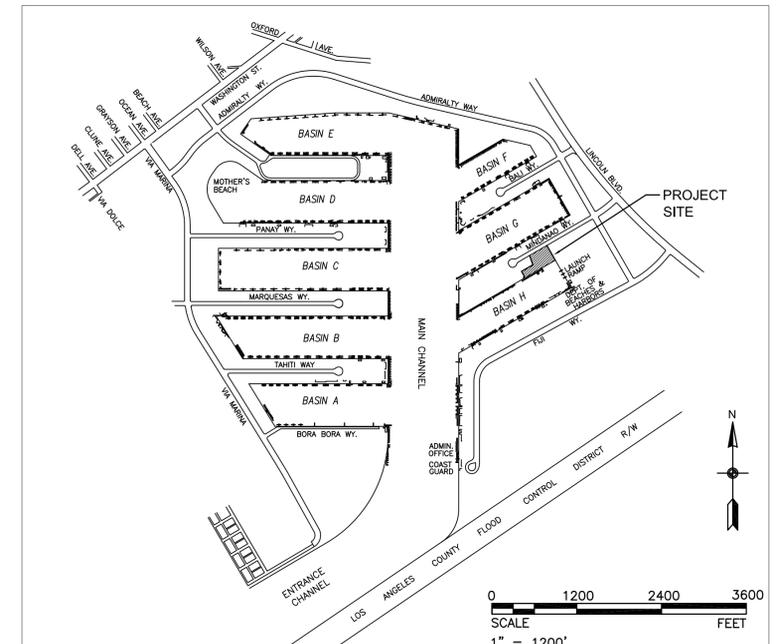
VERTICAL DATUM: NAVD 88 OBTAINED BY GPS



PROJECT SITE LOCATION MAP

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- G-002 NOTES AND ABBREVIATIONS
- CD-101 DEMOLITION PLAN
- CS-101 IMPROVEMENT PLAN
- CS-102 STRIPING PLAN
- CS-501 DETAILS
- CS-502 BOAT STORAGE RACKS



PROJECT SITE VICINITY MAP

IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT.  
SCALE ACCORDINGLY

NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY



6700 E. PACIFIC COAST HIGHWAY, SUITE 201  
LONG BEACH, CALIFORNIA 90803  
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**COUNTY OF LOS ANGELES  
DEPARTMENT OF BEACHES AND HARBORS**

13837 FIJI WAY  
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DESIGNED BY JSY
DRAWN BY JSY
CHECKED BY GPM
PROJECT ENGR WDW

**MARINA DEL REY PARCEL 77 BOAT  
TRAILER PARKING IMPROVEMENTS**

**TITLE SHEET**

SCALE AS SHOWN	REVISION
DATE 05/21/2012	
DRAWING NO. <b>G-001</b>	
SHEET 1 OF 7	

**GENERAL NOTES:**

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE LOS ANGELES COUNTY BUILDING CODE, UNIFORM PLUMBING CODE, CALDAG 2011, LOS ANGELES COUNTY STANDARD PLANS, APWA—STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION, "GREENBOOK"—STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION), AND THE REQUIREMENTS OF THE DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE SITE DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION AS MAY BE NECESSARY.
- THE CONTRACTOR SHALL BE RESPONSIBLE DURING ALL PHASES OF THE WORK TO PROVIDE FOR PUBLIC SAFETY AND CONVENIENCE. THE CONTRACTOR SHALL ESTABLISH ADEQUATE ACCESS TO DRIVEWAYS AT THE END OF EACH WORKING DAY TO THE SATISFACTION OF THE COUNTY.
- THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS BEFORE BIDDING, AND COMMENCEMENT OF WORK.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR THE WORK BEFORE COMMENCEMENT OF WORK.
- CONTRACTOR SHALL USE CAUTION AT ALL EXCAVATIONS TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT AT 1 (800) 642-2444 BEFORE COMMENCEMENT OF WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES. THOSE SHOWN REPRESENT THE BEST INFORMATION AVAILABLE TO THE COUNTY AT THE TIME OF PREPARATION OF THESE PLANS. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THIS INFORMATION. REPAIR ALL DAMAGED UTILITIES TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE COUNTY.
- CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL BEFORE COMMENCEMENT OF WORK. CONTRACTOR SHALL MAINTAIN FULL ACCESS TO ALL PARKING, AND COUNTY USES IN THE AREA AT ALL TIMES. PROVIDE BARRICADES, SIGNS, AND TEMPORARY TRENCH PLATES AND TEMPORARY ACCESS PATHS AS REQUIRED TO MAINTAIN FULL PEDESTRIAN AND VEHICULAR ACCESS TO THE ADJACENT FACILITIES.
- CONTRACTOR SHALL SUBMIT A PROJECT SCHEDULE AND PROPOSED PLAN OF OPERATIONS TO THE ENGINEER FOR APPROVAL BEFORE COMMENCEMENT OF WORK. PROJECT SCHEDULE SHALL INCLUDE PLANNED SEQUENCE OF WORK AND PHASING OF INDIVIDUAL WORK SITES/TASKS.
- ALL TRENCHES AND EXCAVATIONS SHALL BE BARRICADED AT ALL TIMES, AND SHALL BE BACKFILLED TO GRADE OR PROTECTED WITH STEEL PLATES AT THE END OF EACH WORK DAY. NO EXCAVATIONS SHALL REMAIN OPEN AFTER WORK HOURS. ALL WORK SITES AND TRENCH PLATES SHALL BE PROTECTED WITH LIGHTED BARRICADES AT ALL TIMES. EXTREME CAUTION AND CARE SHALL BE TAKEN TO PROTECT PUBLIC SAFETY AND ACCESS TO ALL AREAS.
- CONTRACTOR SHALL PROTECT ALL FACILITIES, BUILDINGS, LANDSCAPING, PUBLIC AND PRIVATE PROPERTY FROM DAMAGE DUE TO ALL TIMES, THE CONTRACTOR'S OPERATIONS. REPAIR ALL DAMAGED FACILITIES, BUILDINGS, LANDSCAPING, PUBLIC AND PRIVATE PROPERTY TO THE SATISFACTION OF THE COUNTY AT NO ADDITIONAL COST TO THE COUNTY OF LOS ANGELES.
- CONTRACTOR SHALL REPAIR IN KIND, ALL TRAFFIC STRIPING, PAVEMENT, AND SITE FACILITIES DAMAGED BY THE CONTRACTOR'S OPERATIONS.
- THE CONTRACTOR SHALL NOT CONDUCT ANY OPERATIONS OR PERFORM ANY WORK PERTAINING TO THE PROJECT BETWEEN 5:00 P.M. AND 7:30 A.M. ON ANY DAY NOR ON SATURDAYS, SUNDAYS, AND HOLIDAYS AT ANY TIME EXCEPT AS APPROVED BY THE COUNTY.
- THE CONTRACTOR SHALL CLEAN THE WORK SITE AND ADJACENT AREAS EACH DAY TO KEEP PAVED AREAS CLEAN TO THE SATISFACTION OF THE COUNTY.
- SHOP DRAWINGS FOR THE BOAT STORAGE RACKS, OAR STORAGE CABINETS, GATE AND FENCE REPAIRS SHALL BE DESIGNED AND SIGNED BY A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA AND SUBMITTED TO THE COUNTY FOR REVIEW PRIOR TO FABRICATION.
- THESE PLANS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW BY THE COUNTY.
- ALL INFORMATION SHOWN ON THE PLANS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE PLANS THEY SHALL BE REPORTED TO THE COUNTY. MODIFICATIONS OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE COUNTY.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES.
- THE CONTRACTOR IS ADVISED THAT ALL EXCAVATED MATERIALS SHALL BECOME CONTRACTOR PROPERTY AND SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF AT AN APPROVED DISPOSAL SITE IN A LEGAL MANNER.
- PROVIDE AS-BUILT DRAWINGS TO THE COUNTY INDICATING ALL FIELD REVISIONS AND CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

**DRAINAGE NOTES:**

- CONFORM NEW IMPROVEMENTS TO EXISTING, TYPICAL.
- ASSURE NEW PAVEMENT IS GRADED TO DRAIN TO EXISTING DRAINAGE FACILITIES AS SHOWN.

**CONCRETE WORK:**

- ALL REINFORCING STEEL SHALL CONFORM TO A.S.T.M. A615 GRADE 60.
- REINFORCING BARS NOTED OR SHOWN CONTINUOUS SHALL RUN IN LENGTHS AS LONG AS PRACTICABLE. LAP REINFORCING BARS 57 DIAMETERS MINIMUM AT SPLICE POINTS, WHICH SHALL BE WELL STAGGERED.
- STAGGER SPLICE POINTS OF HORIZONTAL REINFORCEMENT. HOOK HORIZONTAL REINFORCEMENT 24 DIAMETERS AT CORNERS.
- ALL REINFORCING STEEL SHALL BE ACCURATELY LOCATED IN THE FORMS AND HELD FIRMLY IN PLACE BEFORE AND DURING THE PLACING OF CONCRETE BY MEANS OF WIRE SUPPORTS ADEQUATE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION AND TO KEEP THE STEEL AT PROPER DISTANCE FROM THE FORMS. BAR SUPPORTS ARE TO BE SUFFICIENT IN NUMBERS AND SUFFICIENTLY HEAVY TO PROPERLY CARRY THE STEEL THEY SUPPORT. THESE SUPPORTS MAY BE STANDARD CHAIRS AS SPECIFIED IN CHAPTER 3 OF THE "MANUAL OF STANDARD PRACTICE" PUBLISHED BY THE CONCRETE REINFORCING STEEL INSTITUTE, 1986 EDITION. IF STANDARD SUPPORTS ARE NOT AVAILABLE, THE CONTRACTOR SHALL SUBMIT ALTERNATE DESIGN OF SPECIALLY FABRICATED SUPPORTS FOR APPROVAL. SUPPORTS SHALL NOT BE SPACED OVER 3'-0" O.C. UNDER NO CONDITIONS SHALL CONCRETE BE PLACED WITHOUT ADEQUATE TIES OR SUPPORTS AS OUTLINED ABOVE.
- ALL PORTLAND CEMENT CONCRETE SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 201 AND SECTION 303 OF THE STANDARD SPECIFICATIONS.
- ALL PORTLAND CEMENT, SHALL, AS A MINIMUM, BE CLASS 520-C-2500 OR CLASS 520-C-2500P CONCRETE WITH NOT LESS THAN 520 POUNDS OF PORTLAND CEMENT PER CUBIC YARD. ADD LAMP BLACK OR SIMILAR AS NEEDED TO MATCH EXISTING CONCRETE COLORS.
- ALL CONSTRUCTION JOINTS, KEY WAYS AND JOINTS BETWEEN ADJACENT POURS SHALL BE CLEANED AND ROUGHENED BEFORE PROCEEDING WITH THE NEXT POUR. LOCATION OF PROPOSED JOINTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO PROCEEDING WITH WORK.
- CONCRETE COVERAGE OF REINFORCING STEEL SHALL BE 3" MINIMUM UNLESS OTHERWISE SHOWN ON PLANS.

**PAVEMENT WORK:**

- ALL ASPHALT CONCRETE REPAIRS SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 203 AND SECTION 302 OF THE STANDARD SPECIFICATIONS.
- ALL ASPHALT CONCRETE SHALL BE TYPE PG-64-16 3/8" MAXIMUM GRADATION OR APPROVED EQUAL.
- PAINT BINDER (TACK COAT) SHALL BE APPLIED TO ALL VERTICAL SURFACES OF THE TRENCHES AND ADJACENT CONCRETE IMPROVEMENTS BEFORE PAVEMENT IS PLACED.
- SEAL PAVEMENT CRACKS RANGING IN WIDTH OF 1/4" TO 1" WHERE DIRECTED BY THE ENGINEER. CRACKS SHALL BE REPAIRED PER DETAIL 3/CS-501. AN APPROXIMATE QUANTITY OF 1,000 LINEAL FEET SHALL BE USED FOR BIDDING PURPOSES. AN ACTUAL QUANTITY WILL BE DETERMINED IN THE FIELD DURING CONSTRUCTION BY THE ENGINEER/COUNTY AND PAID AT THE BID UNIT PRICE PER FOOT.
- SLURRY SEAL PAVEMENT AS SHOWN ON THE PLANS. SLURRY SEAL SHALL BE TYPE I AND COMPLETED IN ACCORDANCE WITH SECTION 203-5 "EMULSION-AGGREGATE SLURRY AND SECTION 302-4 "EMULSION-AGGREGATE SLURRY" OF THE STANDARD SPECIFICATIONS.
- PAVEMENT COATED WITH BITUMINOUS SEAL COAT (SLURRY SEAL) SHALL NOT BE PAINTED WITH PERMANENT TRAFFIC MARKING UNTIL 10 DAYS AFTER THE APPLICATION OF THE SLURRY SEAL.
- ALL PAVEMENT MARKING REPAIRS, AND NEW PAVEMENT MARKING WORK, SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 210-1.6 "PAINT FOR TRAFFIC STRIPING, PAVEMENT MARKING AND CURB MARKING" AND SECTION 310-5.6 "PAINTING TRAFFIC STRIPING, PAVEMENT MARKINGS AND CURB MARKINGS". PAVEMENT MARKINGS SHALL BE APPROVED PAINT MATERIAL. THERMOPLASTIC IS NOT REQUIRED.

**KAYAK AND ROWING SHELL STORAGE RACKS:**

- RACKS** – STORAGE RACKS SHALL BE CONSTRUCTED USING WELDED STEEL TUBING CONFORMING TO ASTM A500 GRADE B STANDARD SPECIFICATION FOR HOT-FORMED WELDED AND SEAMLESS CARBON STEEL STRUCTURAL TUBING.
- GALVANIZING** – ALL STEEL MATERIALS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE 2011 EDITION OF THE LA COUNTY BUILDING CODE, CHAPTER 22, DIVISION 9 FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL STRUCTURES. HOT-DIP GALVANIZING: ASTM A123 FOR ALL STEEL SECTIONS AND ASTM A153 FOR ALL STEEL THREADED CONNECTORS (UNLESS SPECIFIED OTHERWISE). EXTRA CARE SHALL BE TAKEN NOT TO DAMAGE ANY GALVANIZING. IF DAMAGE OCCURS, REPAIR IN ACCORDANCE WITH ASTM A780.
- SHOP DRAWINGS** – CONTRACTOR IS RESPONSIBLE FOR DESIGN AND DETAILING OF ALL FABRICATION. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION TO THE ENGINEER FOR APPROVAL.
- DESIGN LOADS** – STORAGE RACKS TO BE DESIGNED TO SUPPORT 200 LB. LOAD AT THE OUTBOARD END OF EACH HORIZONTAL SUPPORT ARM. INCLUDE COMPLETE INFORMATION FOR THE FABRICATION AND ERECTION OF THE STRUCTURE'S COMPONENTS, INCLUDING THE LOCATION, TYPE AND SIZE OF BOLTS, WELDS, MEMBER SIZES AND LENGTHS, CONNECTION DETAILS, BLOCKS, COPES AND CUTS.
- CERTIFICATION OF WELDERS** – SUBMIT AWS CERTIFICATES ATTESTING TO THE QUALIFICATIONS OF EACH WELDER PERFORMING STEEL FABRICATION ON THIS CONTRACT, IN ACCORDANCE WITH AWS D1.1. CERTIFICATION FOR EACH WELDER SHALL HAVE OCCURRED NOT MORE THAN THREE YEARS PREVIOUS TO THE DATE OF NOTICE TO PROCEED.
- ACCESS** – THE COUNTY SHALL BE ALLOWED ACCESS TO ALL SITES WHERE MATERIALS PERTAINING TO THIS CONTRACT ARE MANUFACTURED OR CONSTRUCTED FOR PURPOSES OF INSPECTION. MATERIALS DELIVERED AND STORED AT EITHER THE MANUFACTURING FACILITY, STAGING AREA, OR JOB SITE SHALL BE PROPERLY STORED ON DUNNAGE OR BY OTHER APPROPRIATE MEANS TO PREVENT DIRECT CONTACT WITH THE GROUND AND/OR UNNECESSARY DAMAGE.
- MISCELLANEOUS MATERIALS** – ADDITIONAL REQUIRED MATERIALS FOR FABRICATION/ERECTION NOT OTHERWISE SPECIFIED HEREIN SHALL CONFORM TO AISC STEEL PLATES, CHANNELS, AND ANGLES; ASTM A36, HOT DIP GALVANIZED, FASTENERS: ALL FASTENERS SHALL BE STAINLESS STEEL OR HOT DIP GALVANIZED AS SHOWN ON DRAWINGS. MACHINE BOLTS AND ANCHOR BOLTS SHALL BE GRADE A CONFORMING TO ASTM A307. THREADED RODS SHALL CONFORM TO A36. NUTS FOR BOLTS SHALL CONFORM TO ASTM A563, HEX GRADE A. WASHERS SHALL CONFORM TO ASTM F436.
- ACCESSORIES** – WELDING ELECTRODES AND RODS SHALL CONFORM TO AWS CODE D1.1-90.
- PROTECTIVE PADS** – PROTECTIVE PADS ON STORAGE RACKS SHALL BE 2" X 4" NOMINAL (1-1/2" X 3-1/2") TREX® DECKING "SMOOTH" OR APPROVED EQUAL COMPOSITE DECK BOARD IN COLOR TO BE SELECTED BY COUNTY.  
  
PROTECTIVE PADS SHALL BE FULL LENGTH OF EACH CROSS ARM FROM END TO CENTER SUPPORT. SHORTER PIECES WILL NOT BE ACCEPTABLE. PADS SHALL BE BOLTED IN PLACE AS SHOWN ON THE PLANS, AND SHALL HAVE A MINIMUM OF THREE BOLTS PER EACH PAD LENGTH.  
  
ALL ENDS OF PROTECTIVE PADS SHALL BE EASED TO A RADIUS "OF APPROXIMATELY 1/4".
- EXECUTION** – THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF DETAILING AND FABRICATION. CONNECTIONS FOR ANY PART OF THE STRUCTURE NOT SHOWN ON THE DESIGN OR ANY REFERENCE DRAWINGS OR INFORMATION SHALL BE FURNISHED BY THE CONTRACTOR TO PROVIDE A COMPLETE AND USABLE STRUCTURE. SUBSTITUTION OF MEMBERS, SECTIONS OR MODIFICATION OF CONNECTIONS WILL NOT BE ACCEPTED UNLESS APPROVED BY THE COUNTY IN WRITING PRIOR TO ERECTION.
- WELDING** – ALL WELDING SHALL BE DONE BY THE SHIELDED ARC PROCESS USING APPROVED ELECTRODES PER AWS SPECIFICATION E70XX (LOW HYDROGEN ELECTRODES). WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED BY THE STATE OF CALIFORNIA AS BEING QUALIFIED IN ACCORDANCE WITH AWS D1.1 FOR FULL PENETRATION GROOVE WELDING IN ALL POSITIONS, USING THE PROCEDURES, MATERIALS, AND EQUIPMENT OF THE TYPE REQUIRED FOR THE WORK. ALL WELDING SHALL CONFORM TO AWS D1.1 AND B2.1.  
  
ANY FIELD WORK REQUIRING WELDING OVER A GALVANIZED ITEM SHALL BE ADVANCED BY THE COUNTY. CONTRACTOR SHALL SUBMIT REPAIR PROCEDURES AND MATERIALS FOR PROTECTION OF FIELD WELDS FOR COUNTY APPROVAL. FIELD REPAIRS OF GALVANIZING SHALL PROVIDE THE SAME PROTECTION AS THE ORIGINAL HOT DIP GALVANIZING.
- CONSTRUCTION FABRICATION** – QUALITY OF WORKMANSHIP AND FINISH SHALL BE EQUAL TO THE BEST GENERAL PRACTICE IN MODERN FABRICATING SHOPS.  
  
BOLT HOLES SHALL BE DRILLED OR PUNCHED 1/16 INCH LARGER IN DIAMETER THAN THE NOMINAL DIAMETER OF THE BOLT UNLESS OTHERWISE NOTED ON THE DRAWINGS. BURRS ON THE OUTSIDE SURFACES OF DRILLED HOLES SHALL BE REMOVED BEFORE GALVANIZING.

- INSPECTION OF WELDS** – VISUAL INSPECTION OF WELDING: VISUALLY INSPECT WELDING WHILE THE OPERATORS ARE MAKING THE WELDS AND AGAIN AFTER THE WORK IS COMPLETED. INSPECT WELDS WITH MAGNIFIERS UNDER ADEQUATE LIGHT FOR SURFACE CRACKING, POROSITY, AND SLAG INCLUSIONS; EXCESSIVE ROUGHNESS; UNFILLED CRATERS; GAS POCKETS; UNDERCUTS; OVERLAPS; SIZE; AND INSUFFICIENT THROAT AND CONCAVITY.  
  
INSPECT THE PREPARATION OF GROOVE WELDS FOR ADEQUATE THROAT OPENING. CORRECTION OF DEFECTIVE WELDS: UNSATISFACTORY WELDS CONTAINING DEFECTS BELOW THE STANDARDS OF ACCEPTANCE IN AWS D1.1 SHALL BE CORRECTED OR REPLACED AT NO EXTRA EXPENSE TO THE COUNTY, IN ACCORDANCE WITH AWS D1.1, SECTION 3.7.

**OAR STORAGE CABINET:**

- CABINET** – CABINET SHALL BE CONSTRUCTED USING EXTERIOR GRADE MDO OR BETTER PLYWOOD AND SELECT STRUCTURAL DOUGLAS FIR OR BETTER INTERNAL FRAMING MEMBERS AS REQUIRED PROVIDING A LONG-LASTING, WEATHERPROOF STORAGE CABINET. ALTERNATIVE MATERIALS AND CONSTRUCTION MAY BE SUBMITTED FOR APPROVAL BY THE COUNTY. THE ROOF OF THE CABINET SHALL BE COVERED BY GALVANIZED SHEET STEEL WITH SOLDERED JOINTS, STANDING SEAM METAL ROOF PANELS OR APPROVED EQUAL ROOFING TO PRECLUDE THE ENTRY OF WATER INTO THE CABINET. COLOR OF ROOF TO BE SELECTED BY THE COUNTY.  
  
DOORS SHALL BE BI-FOLD TYPE WITH FULL LENGTH CONTINUOUS STAINLESS STEEL HINGES AS NOTED ON THE PLANS. THE DOORS SHALL HAVE A LOCKING BAR AS INDICATED ON THE PLANS. THE PAD LOCK WILL BE PROVIDED BY THE COUNTY. DOORS SHALL OPEN TO PROVIDE FULL-WIDTH OF THE CABINET ACCESS FOR OAR INSERTION AND REMOVAL.
- SHOP DRAWINGS** – CONTRACTOR IS RESPONSIBLE FOR DESIGN AND DETAILING OF ALL FABRICATION. MATERIALS AND HARDWARE. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION TO THE ENGINEER FOR APPROVAL.
- DESIGN AND LOADS** – CABINET SHALL BE DESIGNED TO SUPPORT A MINIMUM OF 48 FULL-LENGTH ROWING SHELL OARS. INCLUDE COMPLETE INFORMATION FOR THE FABRICATION AND ERECTION OF THE STRUCTURE'S COMPONENTS, INCLUDING THE LOCATION, TYPE AND SIZE OF BOLTS, FASTENERS, MEMBER SIZES AND LENGTHS, CONNECTION DETAILS, BLOCKS, HARDWARE, LOCKING AND MISCELLANEOUS ITEMS.  
  
CABINET SHALL BE CONSTRUCTED TO SUPPORT THE DOORS IN THE FULL OPEN POSITION FOR EXTENDED PERIODS OF TIME AND BE ABLE TO WITHSTAND WIND LOADS WHILE IN THE OPEN POSITION.
- ACCESS** – THE COUNTY SHALL BE ALLOWED ACCESS TO ALL SITES WHERE MATERIALS PERTAINING TO THIS CONTRACT ARE MANUFACTURED OR CONSTRUCTED FOR PURPOSES OF INSPECTION. MATERIALS DELIVERED AND STORED AT EITHER THE MANUFACTURING FACILITY, STAGING AREA, OR JOB SITE SHALL BE PROPERLY STORED ON DUNNAGE OR BY OTHER APPROPRIATE MEANS TO PREVENT DIRECT CONTACT WITH THE GROUND AND/OR UNNECESSARY DAMAGE.
- MISCELLANEOUS MATERIALS** – ADDITIONAL REQUIRED MATERIALS FOR FABRICATION/ERECTION NOT OTHERWISE SPECIFIED HEREIN SHALL CONFORM TO APPROPRIATE CODES AND STANDARDS. ALL FASTENERS SHALL BE 304 OR 316 STAINLESS STEEL.
- EXECUTION** THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF DETAILING AND FABRICATION. CONNECTIONS FOR ANY PART OF THE STRUCTURE NOT SHOWN ON THE DESIGN OR ANY REFERENCE DRAWINGS OR INFORMATION SHALL BE FURNISHED BY THE CONTRACTOR TO PROVIDE A COMPLETE AND USABLE STRUCTURE. SUBSTITUTION OF MEMBERS, SECTIONS OR MODIFICATION OF CONNECTIONS WILL NOT BE ACCEPTED UNLESS APPROVED BY THE COUNTY IN WRITING PRIOR TO ERECTION.
- CONSTRUCTION FABRICATION** – QUALITY OF WORKMANSHIP AND FINISH SHALL BE EQUAL TO THE BEST GENERAL PRACTICE IN MODERN FABRICATING AND CABINET SHOPS.
- CABINET** SHALL BE PAINTED AS INDICATED ON THE PLANS AND COLOR(S) SHALL BE SELECTED BY THE COUNTY FROM CONTRACTOR SUBMITTALS.

**FENCE AND GATE PAINTING NOTES:**

- PAINT MATERIALS SHALL BE DUNN EDWARDS OR APPROVED EQUAL TO MATCH COUNTY STANDARD PAINT MATERIALS.
- COLORS SHALL BE SAME AS EXISTING OR AS SELECTED BY THE COUNTY.
- ALL BARE SURFACES SHALL BE PRIMED WITH PRIMERS APPROPRIATE FOR THE FINISH COATS. NEW GALVANIZED METAL SHALL BE CLEANED AND TREATED WITH AN ETCHING SOLUTION TO PROVIDE PROPER PAINT ADHESION.
- ALL SURFACES SHALL RECEIVE TWO FINISH COATS OF THE SELECTED TYPE AND COLOR OF PAINT MATERIAL OVER THE PRIMED SURFACES.
- ALL PAINT APPLICATION SHALL BE ACCOMPLISHED DURING ACCEPTABLE WEATHER AND TEMPERATURE CONDITIONS.

**ABBREVIATIONS**

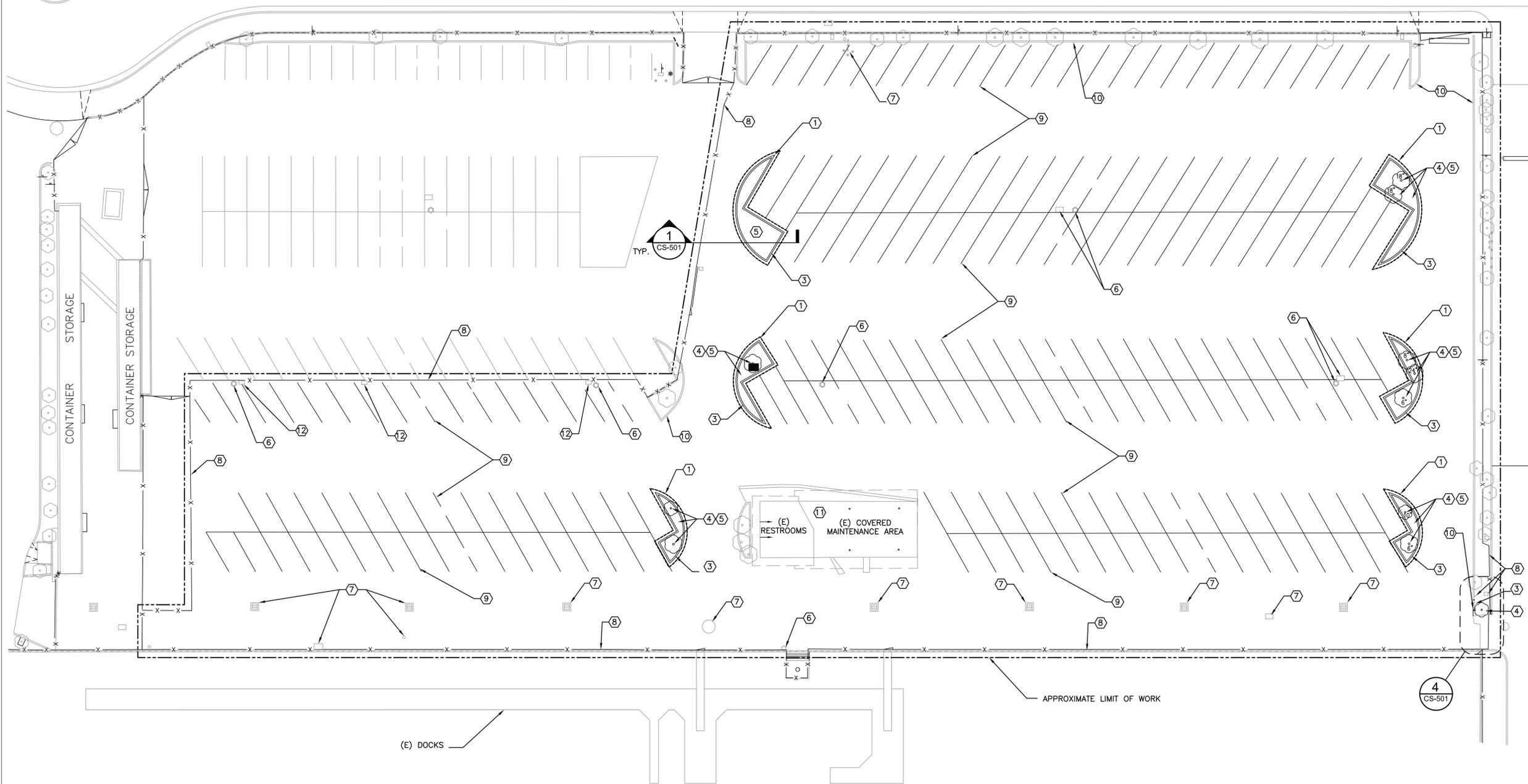
A.B.	AGGREGATE BASE
AC, A.C.	ASPHALT CONCRETE
CLR.	CLEAR
C.J.	CONTROL JOINT
(E)	EXISTING
E.J.	EXPANSION JOINT
ETC.	ET CETERA
H.D.G.	HOT DIP GALVANIZE
L.F.	LINEAR FEET
MAX.	MAXIMUM
MIN.	MINIMUM
(N)	NEW
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
SQ.	SQUARE
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
#	NUMBER
∅	DIAMETER

REVISIONS	NO.	DESCRIPTION	DATE	BY	NO.	DESCRIPTION	DATE	BY	 6700 E. PACIFIC COAST HIGHWAY, SUITE 201 LONG BEACH, CALIFORNIA 90803 TEL (562) 342-7032 FAX (562) 594-6975	 COUNTY OF LOS ANGELES DEPARTMENT OF BEACHES AND HARBORS 13837 FIJI WAY MARINA DEL REY, CALIFORNIA 90292 TEL (310) 305-9505 FAX (310) 821-7856	DESIGNED BY JSY	MARINA DEL REY PARCEL 77 BOAT TRAILER PARKING IMPROVEMENTS	SCALE AS SHOWN	REVISION
										DATE 05/21/2012				
										DRAWING NO. <b>G-002</b>				
										SHEET 2 OF 7				

IF SHEET IS LESS THAN 24" X 36"  
IT IS A REDUCED PRINT.  
SCALE ACCORDINGLY

NOTES AND ABBREVIATIONS

MINDANAO WAY



**DEMOLITION NOTES:**

1. PROTECT IN PLACE ALL TREES AND OTHER FACILITIES EXCEPT AS NOTED ON PLAN.
2. ALL PAVEMENT AND CONCRETE REMOVALS SHALL BE NEATLY SAW CUT AT LIMITS OF WORK, AS NECESSARY.
3. REMOVE AND PROPERLY DISPOSE OF ALL EXCESS AC, CONCRETE, ROCK, SOIL, VEGETATION AND ANY OTHER DEBRIS AND MATERIALS.
4. IRRIGATION: THE WORKING CONDITIONS OF THE EXISTING SYSTEM SHALL BE EVALUATED PRIOR TO THE COMMENCEMENT OF DEMOLITION. IRRIGATION HEADS AND LINES TO BE ABANDONED SHALL BE CAPPED. COORDINATE UNDERGROUND SLEEVING WITH THE COUNTY. MOVE AND RELOCATE EXISTING IRRIGATION TO THE SATISFACTION OF THE COUNTY. THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH THE COUNTY REGARDING MODIFICATION OF THE IRRIGATION SYSTEM.
5. SHRUB AND TREE REMOVAL SHALL INCLUDE ALL PLANT MATERIAL INCLUDING ROOTS A MINIMUM OF 2 FEET BELOW GRADE.
6. ADJUST VALVE BOXES, ELECTRICAL BOXES, OTHER UTILITY BOXES, AND SIMILAR ELEMENTS IN PAVED AREAS TO GRADE AS DIRECTED BY THE COUNTY. BOXES SHALL BE FLUSH WITH THE ADJACENT PAVEMENT. PATCH AC PAVEMENT AS REQUIRED.

**KEY NOTES:**

- ① SAW CUT AC 1' FROM FACE OF CURB AND REMOVE AC.
- ② NOT USED
- ③ REMOVE AND DISPOSE OF (E) CONCRETE CURB.
- ④ REMOVE AND DISPOSE OF (E) TREE.
- ⑤ REMOVE AND DISPOSE OF (E) LANDSCAPING, IRRIGATION LINES. CAP LINES AS NECESSARY.
- ⑥ (E) ELECTROLIER, BASE, AND PULLBOX TO REMAIN. PROTECT IN PLACE.
- ⑦ (E) CATCH BASINS, SANITARY MANHOLES, WATER VALVES, ELECTRICAL BOXES, BOLLARDS, BACKFLOW PREVENTOR, ETC. TO REMAIN. PROTECT IN PLACE.
- ⑧ (E) FENCE, GATES, KEYPADS, AND OPERATORS TO REMAIN, U.O.N. ON PLAN.
- ⑨ SANDBLAST (E) STRIPING
- ⑩ (E) CONCRETE CURB TO REMAIN, PROTECT IN PLACE.
- ⑪ EXISTING BUILDINGS TO REMAIN.
- ⑫ EXISTING UTILITY BOXES TO REMAIN AND SHALL BE ADJUSTED PER DEMOLITION NOTE 6 ABOVE. REMOVE AND CAP PIPES BELOW THE RESPECTIVE BOX TO ALLOW COVER TO FIT FLUSH WITH PAVEMENT. CAPPED PIPES SHALL HAVE THREADED CAPS FOR FUTURE ACCESS BY COUNTY. COORDINATE WITH COUNTY TO DETERMINE LOCATION OF SHUT OFF VALVES PRIOR TO REMOVING AND CAPPING LINES. REPLACE BOXES AND COVERS AS REQUIRED TO PROVIDE SMOOTH, FLUSH CONDITIONS. CONTRACTOR TO SUBMIT UTILITY BOX MODIFICATION DETAILS TO COUNTY FOR APPROVAL PRIOR TO MAKING ANY MODIFICATIONS.

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**COUNTY OF LOS ANGELES  
DEPARTMENT OF BEACHES AND HARBORS**

13837 FIJI WAY  
MARINA DEL REY, CALIFORNIA 90292  
TEL (310) 305-9505  
FAX (310) 821-7856

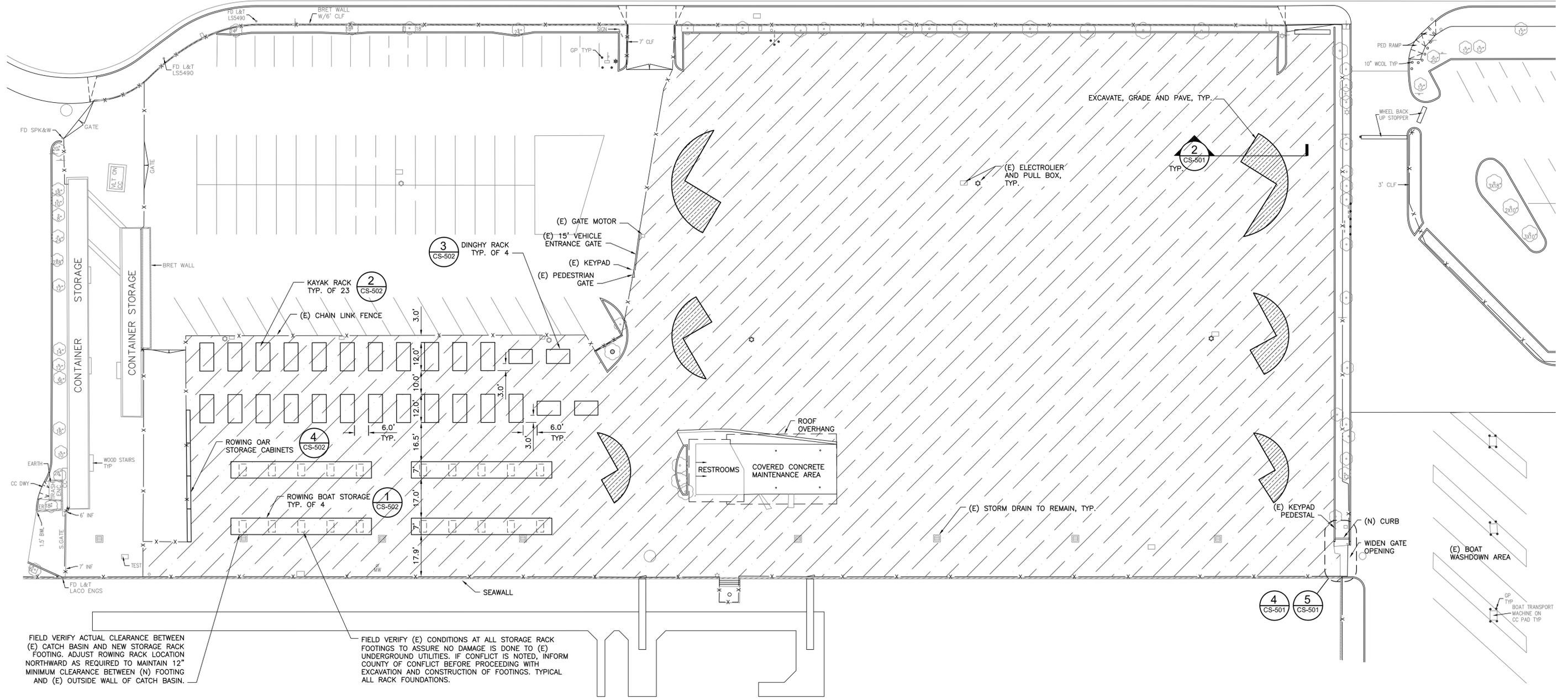
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DRAWN BY JSY
CHECKED BY GPM
PROJECT ENGR WDW

**MARINA DEL REY PARCEL 77 BOAT  
TRAILER PARKING IMPROVEMENTS**

**DEMOLITION PLAN**

SCALE AS SHOWN	REVISION
DATE 05/21/2012	
DRAWING NO. <b>CD-101</b>	
SHEET 3 OF 7	

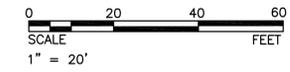
MINDANAO WAY



FIELD VERIFY ACTUAL CLEARANCE BETWEEN (E) CATCH BASIN AND NEW STORAGE RACK FOOTING. ADJUST ROWING RACK LOCATION NORTHWARD AS REQUIRED TO MAINTAIN 12" MINIMUM CLEARANCE BETWEEN (N) FOOTING AND (E) OUTSIDE WALL OF CATCH BASIN.

FIELD VERIFY (E) CONDITIONS AT ALL STORAGE RACK FOOTINGS TO ASSURE NO DAMAGE IS DONE TO (E) UNDERGROUND UTILITIES. IF CONFLICT IS NOTED, INFORM COUNTY OF CONFLICT BEFORE PROCEEDING WITH EXCAVATION AND CONSTRUCTION OF FOOTINGS. TYPICAL ALL RACK FOUNDATIONS.

-  (N) ASPHALT CONCRETE PAVEMENT PER 2  
CS-501
-  (N) SLURRY SEAL AND CRACK REPAIR PER 3  
CS-501



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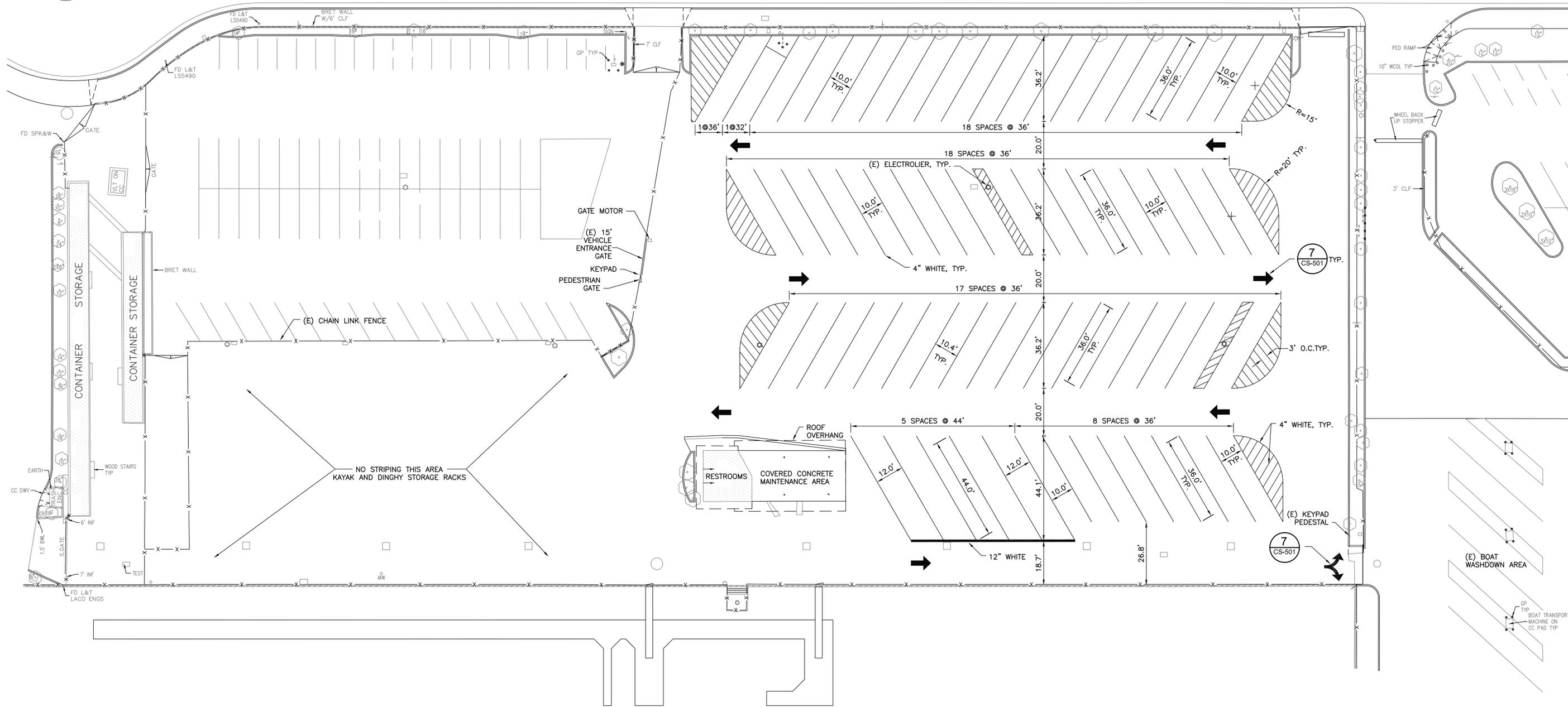
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 DEPARTMENT OF BEACHES AND HARBORS**  
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DRAWN BY JYJ
CHECKED BY GPM
PROJECT ENGR WDW

**MARINA DEL REY PARCEL 77 BOAT  
 TRAILER PARKING IMPROVEMENTS**  
**IMPROVEMENT PLAN**

SCALE AS SHOWN	REVISION
DATE 05/21/2012	
DRAWING NO. <b>CS-101</b>	
SHEET 4 OF 7	

MINDANAO WAY



**BOAT AND TRAILER, WATERCRAFT STORAGE**

	BOAT TRAILER (44')	BOAT TRAILER (36')	BOAT TRAILER(32')	ROWING SHELLS	KAYAKS	DINGHIES
<b>QUANTITY</b>	<b>5</b>	<b>62</b>	<b>1</b>	<b>24</b>	<b>138</b>	<b>24</b>

**NOTES:**

1. ALL AISLES ARE ONE WAY.
2. ALL SPACES ARE BACK IN.
3. FOR STRIPING NOTES SEE SHEET G-002.



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**COUNTY OF LOS ANGELES  
DEPARTMENT OF BEACHES AND HARBORS**

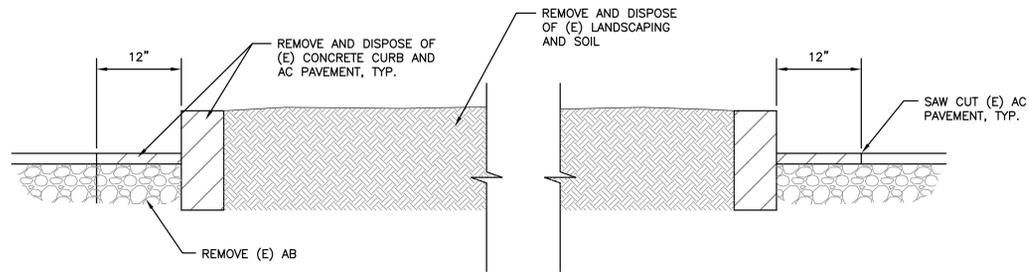
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DESIGNED BY  
JJSY  
DRAWN BY  
JJSY  
CHECKED BY  
GPM  
PROJECT ENGR  
WDW

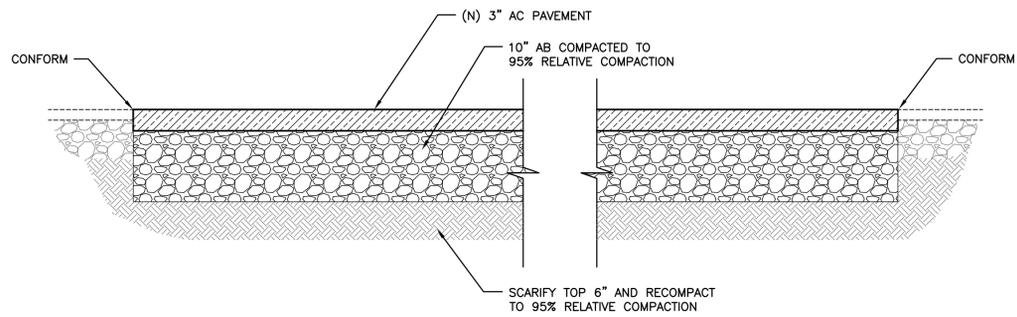
**MARINA DEL REY PARCEL 77 BOAT  
TRAILER PARKING IMPROVEMENTS**

**STRIPING PLAN**

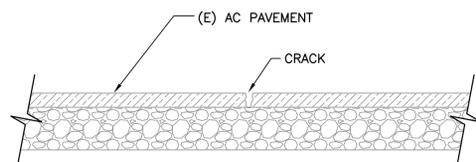
SCALE AS SHOWN  
DATE 05/21/2012  
DRAWING NO.  
**CS-102**  
SHEET 5 OF 7



**1 ISLAND DEMOLITION DETAIL**  
 CS-501 SCALE: 1" = 1'-0"

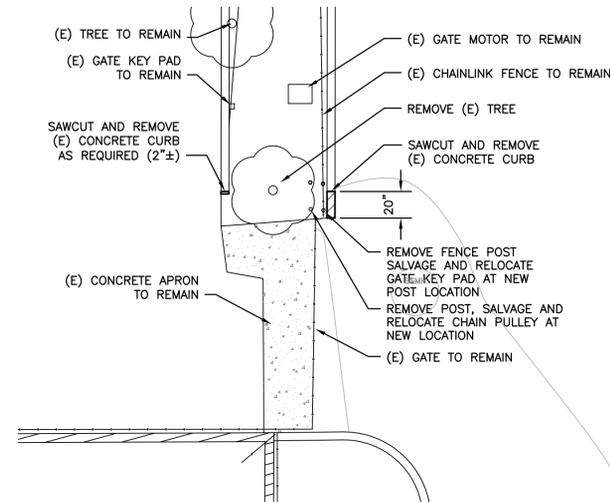


**2 AC PAVEMENT DETAIL**  
 CS-501 SCALE: 1" = 1'-0"

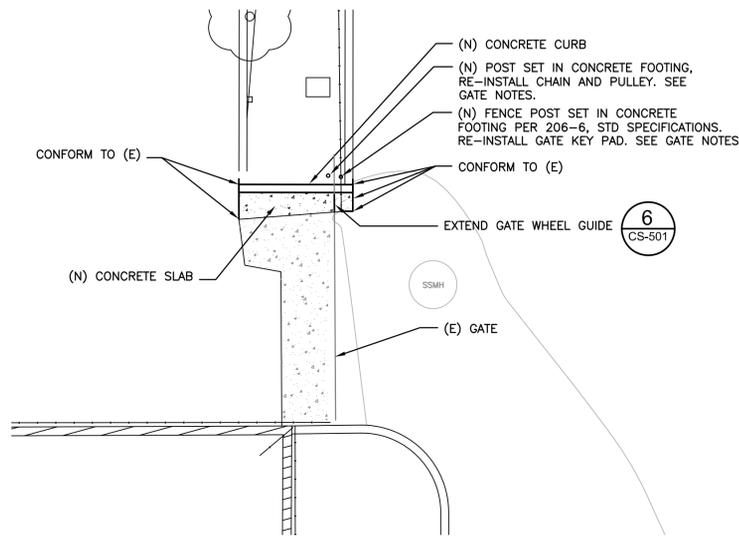


- NOTES:**
1. REMOVE ALL LOOSE PARTICLES, WEEDS, OR OTHER DEBRIS IN CRACK.
  2. APPLY SEALER FULL DEPTH OF CRACK.
  3. AFTER ALL CRACKS HAVE BEEN SEALED, SLURRY SEAL ENTIRE PARKING AREA.

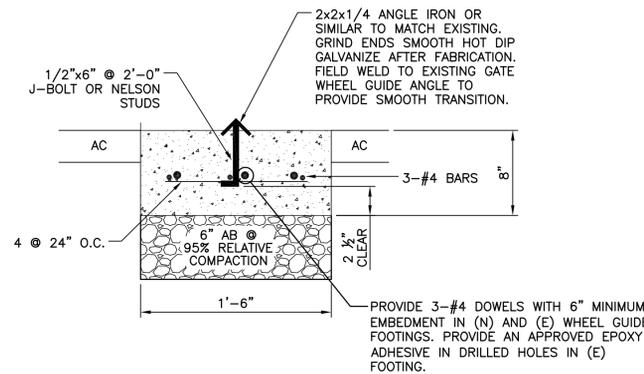
**3 AC PAVEMENT CRACK REPAIR 1/4" TO 1" WIDE**  
 CS-501 SCALE: 1" = 1'-0"



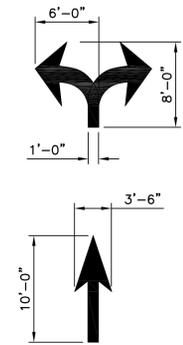
**4 ENLARGED DEMOLITION PLAN AT EXIT GATE**  
 CS-501 SCALE: 3/8" = 1'-0"



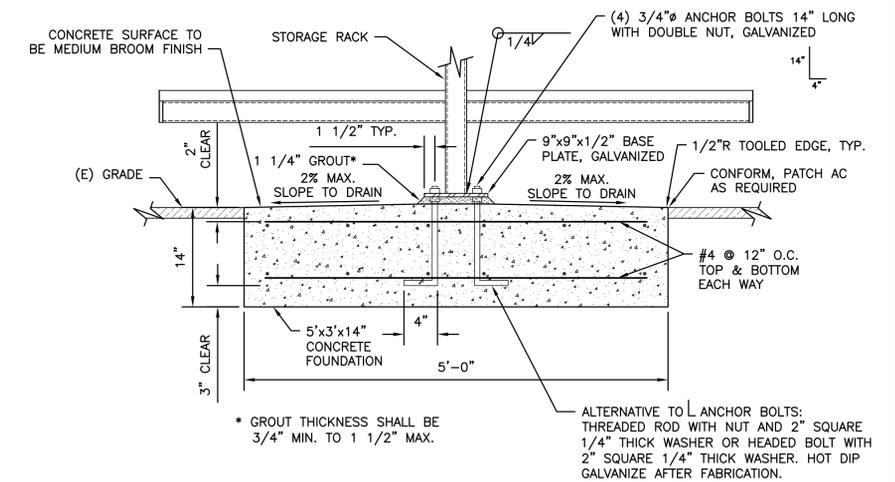
**5 ENLARGED PLAN AT EXIT GATE**  
 CS-501 SCALE: 3/8" = 1'-0"



**6 GATE WHEEL GUIDE**  
 CS-501 SCALE: 1 1/2" = 1'-0"



**7 PAVEMENT MARKINGS**  
 CS-501 SCALE: 1/8" = 1'-0"



**8 ROWING RACK FOUNDATION**  
 CS-501 SCALE: 1" = 1'-0"

- GATE NOTES:**
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE COUNTY'S REVIEW BEFORE FABRICATION OF GATE SYSTEM MODIFICATIONS.
  2. STEEL COMPONENTS SHALL BE AS NOTED OR MATCH EXISTING SLIDING GATE.
  3. ADJUST GATE OPERATOR AND CHAIN DRIVE MECHANISM AS NECESSARY TO PROVIDE PROPER OPERATION OF NEW GATE AND ASSURE PROPER KEY PAD OPERATION.
  4. NEW GATE POSTS SHALL BE SCH. 40 GALVANIZED STEEL PIPE, SIZE TO MATCH EXISTING.
  5. NEW GATE POST FOOTING SHALL MATCH EXISTING AND SHALL BE MINIMUM 12" DIAMETER, 36" DEEP.

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 JSY  
 DRAWN BY  
 JSY  
 CHECKED BY  
 GPM  
 PROJECT ENGR  
 WDW

**MARINA DEL REY PARCEL 77 BOAT  
 TRAILER PARKING IMPROVEMENTS**

**DETAILS**

SCALE AS SHOWN

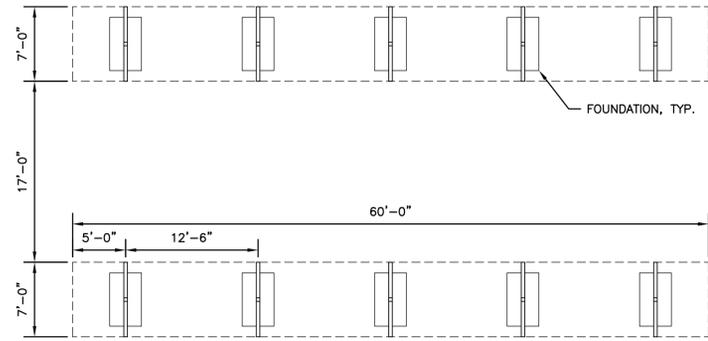
DATE  
 05/21/2012

REVISION

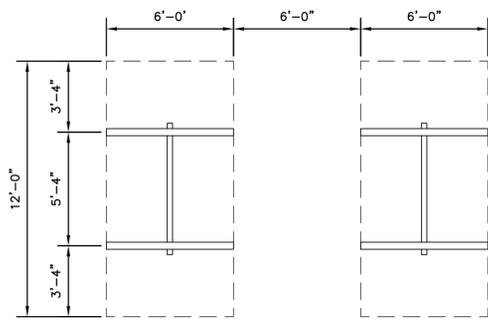
DRAWING NO.

**CS-501**

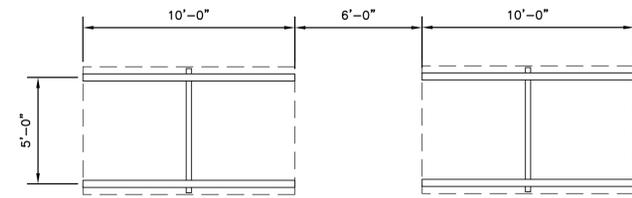
SHEET 6 OF 7



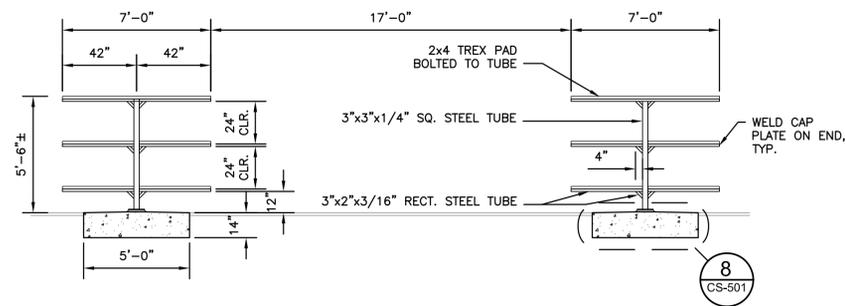
**PLAN**  
SCALE: 1/8" = 1'-0"



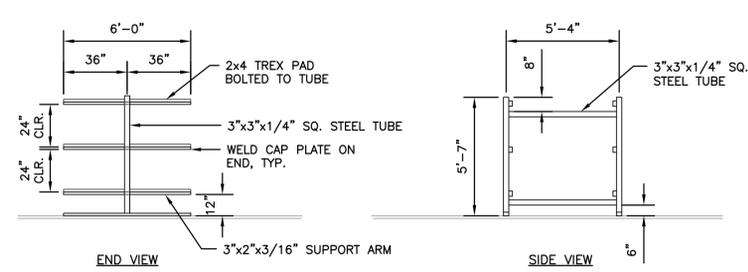
**PLAN**  
SCALE: 1/4" = 1'-0"



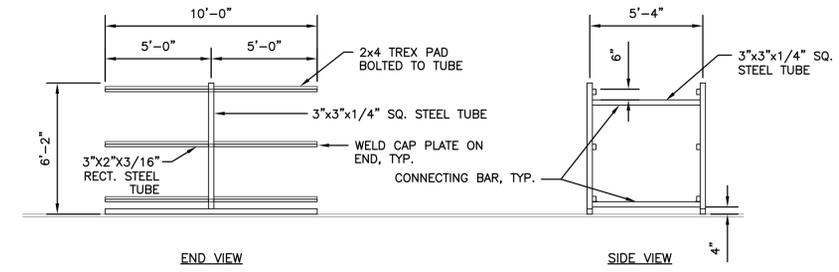
**PLAN**  
SCALE: 1/4" = 1'-0"



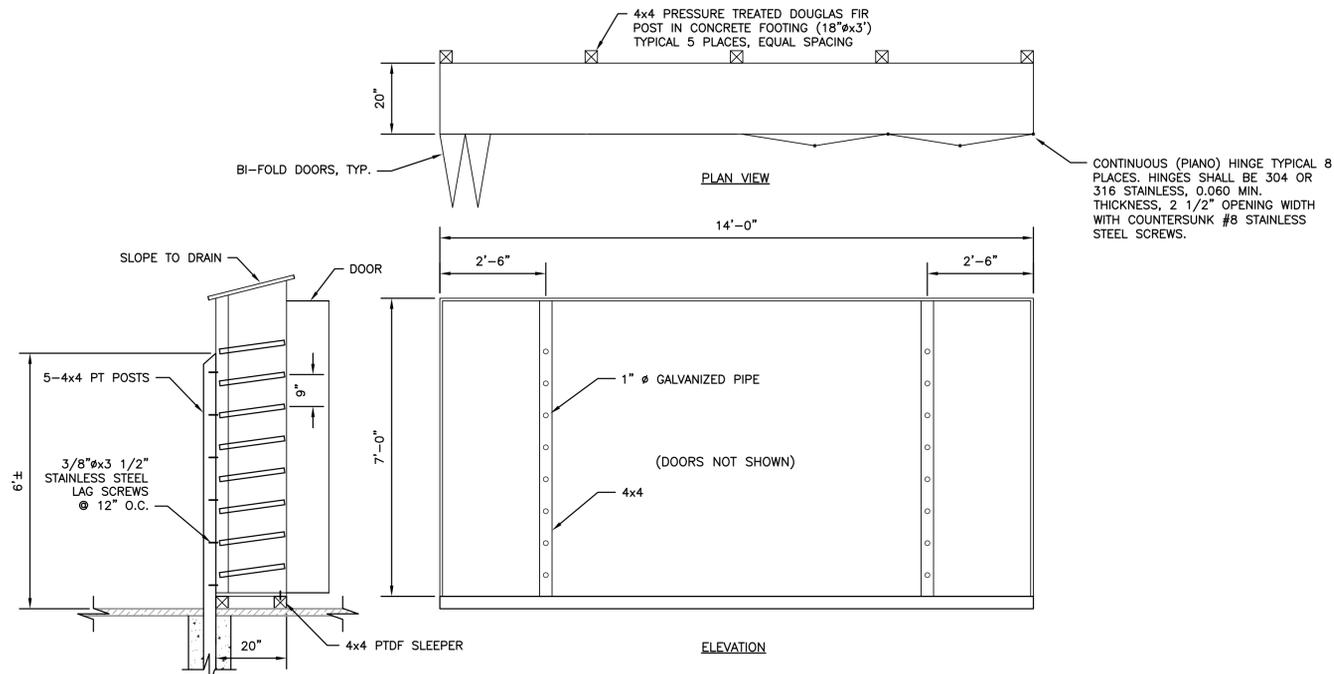
**1** ROWING SHELL RACK STORAGE ELEVATION  
SCALE: 1/4" = 1'-0"



**2** KAYAK RACK STORAGE  
SCALE: 1/4" = 1'-0"



**3** DINGHY RACK STORAGE  
SCALE: 1/4" = 1'-0"



**4** ROWING OAR STORAGE CABINET  
SCALE: 1/2" = 1'-0"

**5** DETAIL  
SCALE: 6" = 1'-0"

- STORAGE RACK NOTES:**
1. ALL STORAGE RACKS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
  2. ALL STORAGE RACK SUPPORT ARMS SHALL BE COVERED BY A TREX PAD OR OTHER APPROVED MATERIAL TO PREVENT SCRATCHING BOATS.
  3. PROVIDE COMPLETE SHOP DRAWINGS FOR BOAT STORAGE RACKS AND OAR STORAGE CABINETS, FOR APPROVAL BY THE COUNTY.
- ROWING OAR STORAGE CABINET NOTES:**
1. CABINET TO BE WEATHER DUTY, EXTERIOR GRADE MATERIALS.
  2. FASTENERS TO BE STAINLESS STEEL.
  3. PAINT INTERIOR AND EXTERIOR WITH PRIMER AND TWO COATS OF EXTERNAL ENAMEL PAINT. COLOR TO BE DETERMINED BY COUNTY.

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**MARINA DEL REY PARCEL 77 BOAT  
TRAILER PARKING IMPROVEMENTS**  
**BOAT STORAGE RACKS**

SCALE AS SHOWN	REVISION
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DRAWING NO. <b>CS-502</b>	
SHEET 7 OF 7	