Application No. 19017 Agenda Item No. 4E

# Meeting of the Central Valley Flood Protection Board June 26, 2015

#### **Staff Report**

City of West Sacramento
Rice Mill Pier Upgrade
Yolo County

#### <u>1.0 – ITEM</u>

Consider approval of Draft Permit No. 19017 (See Attachment B).

#### 2.0 - APPLICANT

City of West Sacramento

#### 3.0 - LOCATION

The project is located on the right (west) bank of the Sacramento River approximately 500-feet upstream from the Interstate-80/U.S. Highway 50 Bridge in the City of West Sacramento.

(Sacramento River, Yolo County, see Attachment A).

#### 4.0 - PROJECT DESCRIPTION

The applicant proposes to upgrade the existing Rice Mill Pier for public access. The upgrade includes structural repairs to the pier substructure, abutment, and the existing piles. A new electrical conduit up and over the levee will supply power to the pier.

#### 5.0 - AUTHORITY OF THE BOARD

California Water Code § 8534, 8590 – 8610.5, and 8700 - 8710

California Code of Regulations, Title 23 (Title 23)

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- § 6, Need for a Permit
- § 13, Evidentiary Hearings
- § 112, Streams Regulated and Nonpermissible Work Periods
- § 127, Boating Facilities

#### <u>6.0 – PROJECT ANALYSIS</u>

The Rice Mill Pier is the last remaining structure associated with the Rice Storage and Milling facility that was constructed by the National Rice Mills in 1918. In 1930 the rice mill building was purchased by the Rice Growers Association and additional structures were built. In 1963 the Inland Port of West Sacramento opened for the primary purpose of serving Northern California's rice industry ending the need for the infrastructure at the project site and only the Rice Mill Pier remains.

The City of West Sacramento proposes to rehabilitate the existing Rice Mill Pier for improved public access to water-related recreation which is a goal of the City's Parks Master Plan. The pier is located along the West Sacramento River Walk Trail. The existing pier consists of an elevated concrete deck that is approximately 18 feet wide and 120 feet long. The concrete deck is supported by an existing concrete abutment on the levee. The elevation of the pier deck is near the same elevation of the levee crown.

The proposed Project would include implementation of repairs and strengthening to the pier along with structural and mechanical options for full compliance with the accessibility requirements of the Americans with Disabilities Act. The rehabilitation includes structural repairs to the pier substructure, abutment, and the strengthening of the existing piles where needed. New piles may be required if the existing piles do not meet design criteria. A protective rail or fencing system and lighting along the pier perimeter will be installed for public safety. An electrical conduit would be installed at the top of the levee to supply electricity for the pier lighting. All of the proposed pier upgrades meet Title 23 standards.

#### 6.1 – Hydraulic Analysis

A hydraulic blockage calculation was performed that shows the Rice Mill Pier will block less than 1% of the floodway. Therefore the hydraulic blockage potential of the pier is considered to be insignificant.

#### 6.2 - Geotechnical Analysis

The proposed projects scope-of-work does not require a geotechnical analysis.

#### 7.0 – AGENCY COMMENTS AND ENDORSEMENTS

The comments and endorsements associated with this project, from all pertinent agencies are shown below:

- Reclamation District No. 900 endorsed the project on March 3, 2015 with no conditions.
- The U.S. Army Corps of Engineers 208.10 comment letter <u>has not been</u> <u>received</u> for this application. Staff anticipates receipt of a letter indicating that the USACE District Engineer has no objection to the project, subject to conditions. Upon receipt of the letter, staff will review to ensure conformity with the permit language and incorporate it into the permit as Exhibit A.

#### 8.0 - CEQA ANALYSIS

Board staff has prepared the following California Environmental Quality Act (CEQA) determination:

The Board, as a responsible agency under CEQA, has reviewed the Draft Initial Study/Mitigated Negative Declaration (IS/MND) (SCH Number: 2014022054, February 2014), Final Initial Study/Mitigated Negative Declaration (IS/MND) (SCH Number: 2014022054, May 2014) and Mitigation Measures for the Raley's Dock Replacement and Rice Mill Pier Rehabilitation Project prepared by the lead agency, the City of West Sacramento. These documents, including project design, may be viewed or downloaded from the Central Valley Flood Protection Board website at: <a href="http://www.cvfpb.ca.gov/meetings/2015/06-26-2015.cfm">http://www.cvfpb.ca.gov/meetings/2015/06-26-2015.cfm</a> under the link for this agenda item. These documents are also available for review in hard copy at the Board and the City of West Sacramento offices.

The City of West Sacramento determined that the project would not have a significant effect on the environment on December 9, 2014 and subsequently filed a Notice of Determination on December 23, 2014 with the State Clearinghouse. Board staff finds that although the proposed project could have a potentially significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. The project proponent has incorporated mandatory mitigation measures into the project plans to avoid identified impacts or to mitigate such impacts to a point where no significant impacts will occur. These mitigation measures are included in the project proponent's

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IS/MND and address impacts to biological resources, cultural resources, geology and soils, hazards and hazardous materials, hydrology and water quality, noise, and recreation. The description of the mitigation measures are further described in the adopted IS/MND.

The documents and other materials which constitute the record of the Central Valley Flood Board's proceedings in this matter are in the custody of Leslie Gallagher, Acting Executive Officer, Central Valley Flood Protection Board, 3310 El Camino Ave., Rm. 151, Sacramento, California 95821.

#### 9.0 - WATER CODE SECTION 8610.5 CONSIDERATIONS

 Evidence that the Board admits into its record from any party, State or local public agency, or nongovernmental organization with expertise in flood or flood plain management:

The Board has considered all the evidence presented in this matter, including the original and updated applications and supporting documents, this Staff Report and attachments, all other evidence presented by any individual or group, and all letters and other correspondence received by the Board and in the Board's files related to this matter.

2. The best available science that related to the scientific issues presented by the executive officer, legal counsel, the Department or other parties that raise credible scientific issues.

The accepted industry standards for the rehabilitation of the pier have been applied to the review of this permit and the work conforms to Title 23 standards.

3. Effects of the decision on facilities of the State Plan of Flood Control, and consistency of the proposed project with the Central Valley Flood Protection Plan as adopted by Board Resolution 2012-25 on June 29, 2012.

The proposed project is an upgrade to an existing feature that has been in place for many years and there will be no adverse effect on facilities of the State Plan of Flood Control. In addition the project is consistent with the 2012 Central Valley Flood Protection Plan as the project will not impact levee performance and there will be no substantial increase in water surface elevation due to the upgraded pier.

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The Delta Stewardship Council (DSC) and its authorizing statutes require that any actions in the Delta be consistent with the Delta Plan. The applicant determined that the project <u>would not be a covered action</u> using the checklist provided by DSC.

4. Effects of reasonable projected future events, including, but not limited to, changes in hydrology, climate, and development within the applicable watershed:

It is not anticipated that there will be any effects to the project from reasonable projected future events. The Rice Mill Pier has been in existence for many years and the pier deck is near the levee crown elevation. In the event that climate change causes rising sea and river levels, the levee crown elevation could still be raised.

#### 10.0 - STAFF RECOMMENDATION

Staff recommends that the Board:

#### Adopt:

the CEQA findings;

#### Approve:

 draft Encroachment Permit No. 19017 in substantially the form provided; and on condition of receipt of a favorable USACE 408 decision letter; and

#### Direct:

 the Executive officer to take the necessary actions to execute the permit and file a Notice of Determination pursuant to CEQA with the State Clearinghouse.

#### 11.0 - LIST OF ATTACHMENTS

- A. Location Maps and Photos
- B. Draft Permit No. 19017
- C. Project Drawings

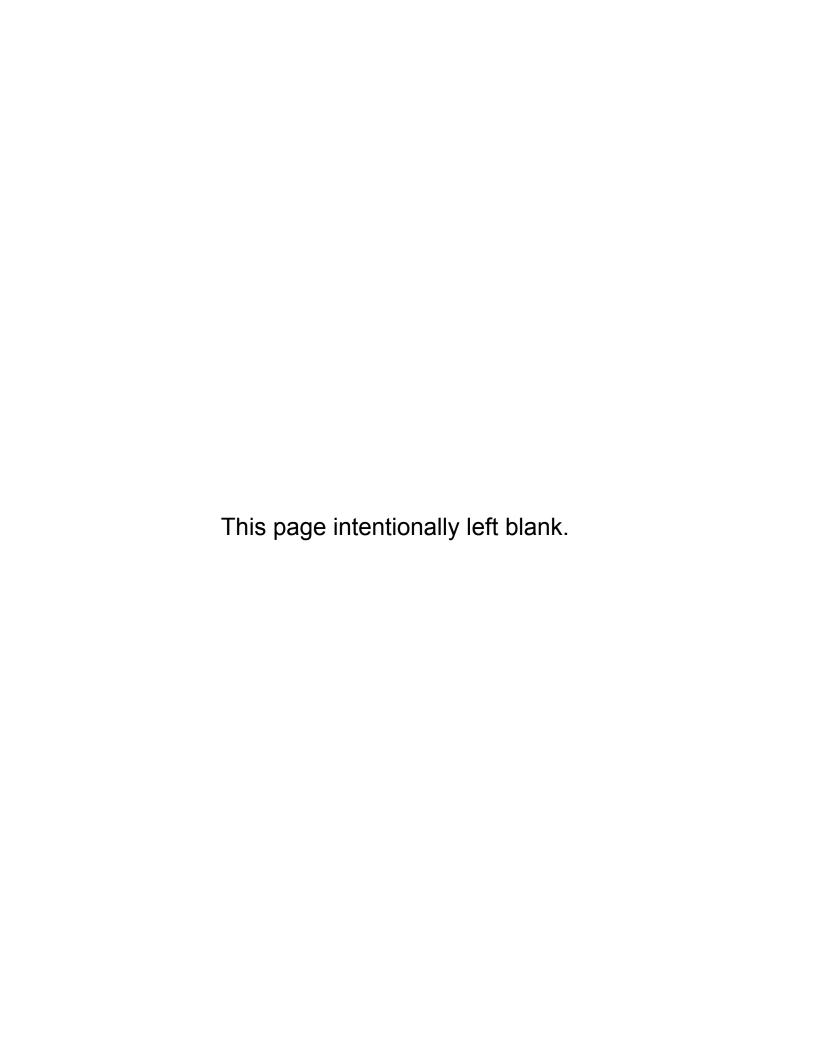
Design Review: Gary W. Lemon P.E.

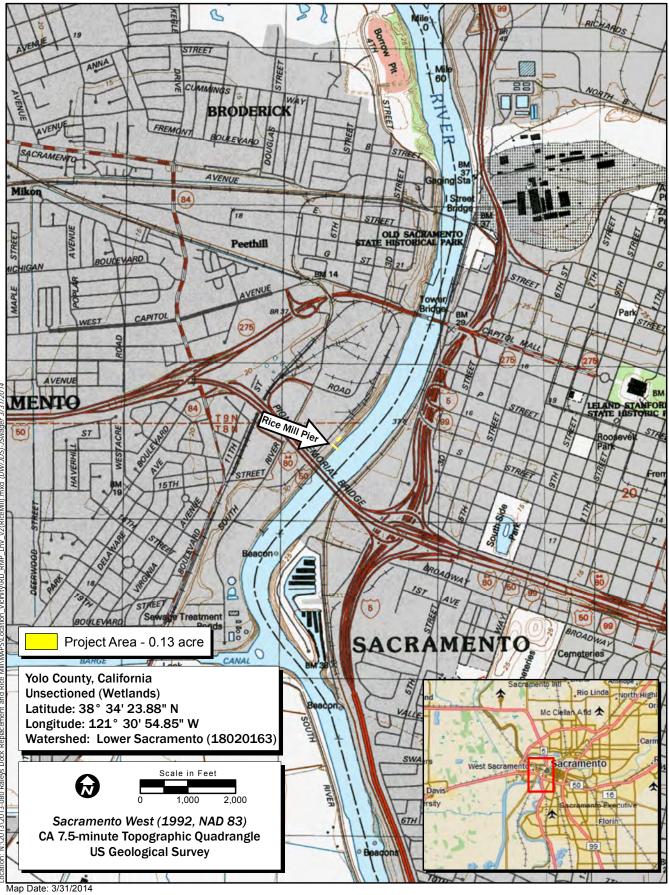
Environmental Review: Andrea Buckley, Senior Environmental Scientist

Document Review: Mitra Emami P.E., Permitting and Enforcement Branch Chief,

Len Marino P.E., Chief Engineer

Legal Review: Nicole Rinke, Counsel

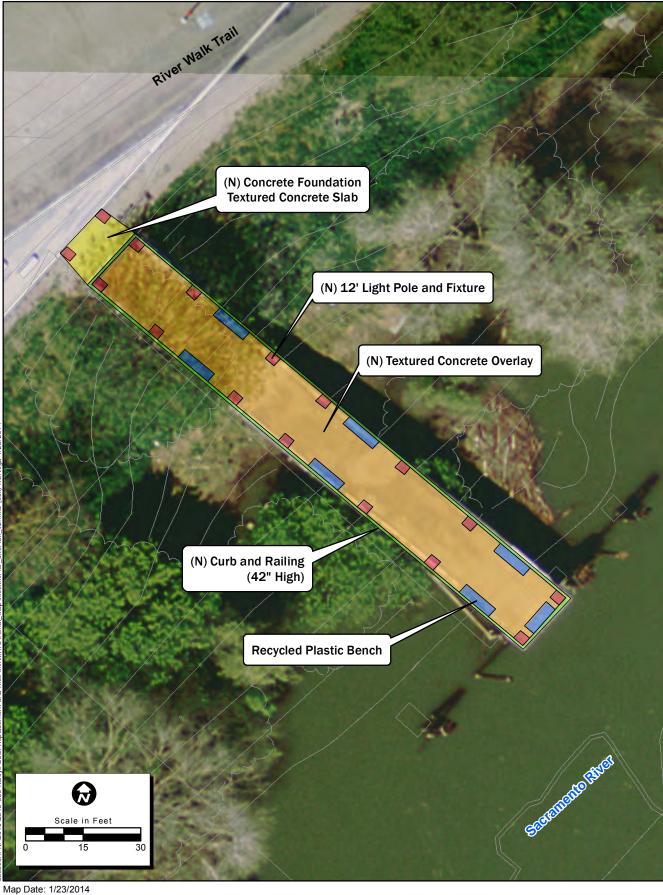




Service Layer Credits: Copyright:© 2012 DeLorme



Figure 1. Project Location and Vicinity



Map Date: 1/23/2014 Photo Source: USGS 2011 Base Data: Site plan provided by GHD



Figure 2. Rice Mill Pier Site Plan

















# **DRAFT**

# STATE OF CALIFORNIA THE RESOURCES AGENCY

#### THE CENTRAL VALLEY FLOOD PROTECTION BOARD

**PERMIT NO. 19017 BD** 

This Permit is issued to:

City of West Sacramento 1110 West Capitol Avenue West Sacramento, California 95691

To upgrade the existing Rice Mill Pier for public access. The upgrade includes structural repairs to the pier substructure, abutment, and the existing piles. A new electrical conduit up and over the levee will supply power to the pier.

The project is located on the right (west) bank of the Sacramento River approximately 500-feet upstream from the Interstate-80/U.S. Highway 50 Bridge in the City of West Sacramento (Section 2, T8N, R4E, MDB&M, Reclamation District 900, Sacramento River, Yolo County).

NOTE: Special Conditions have been incorporated herein which may place limitations on and/or require modification of your proposed project as described above.

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Dated:	Everytive Officer

#### **GENERAL CONDITIONS:**

**ONE**: This permit is issued under the provisions of Sections 8700 – 8723 of the Water Code.

TWO: Only work described in the subject application is authorized hereby.

THREE: This permit does not grant a right to use or construct works on land owned by the Sacramento and San Joaquin Drainage District or on any other land.

**FOUR**: The approved work shall be accomplished under the direction and supervision of the State Department of Water Resources, and the permittee shall conform to all requirements of the Department and The Central Valley Flood Protection Board.

**FIVE**: Unless the work herein contemplated shall have been commenced within one year after issuance of this permit, the Board reserves the right to change any conditions in this permit as may be consistent with current flood control standards and policies of The Central Valley Flood Protection Board.

SIX: This permit shall remain in effect until revoked. In the event any conditions in this permit are not complied with, it may be revoked on 15 days' notice.

**SEVEN**: It is understood and agreed to by the permittee that the start of any work under this permit shall constitute an acceptance of the conditions in this permit and an agreement to perform work in accordance therewith.

EIGHT: This permit does not establish any precedent with respect to any other application received by The Central Valley Flood Protection Board.

NINE: The permittee shall, when required by law, secure the written order or consent from all other public agencies having jurisdiction.

**TEN**: The permittee is responsible for all personal liability and property damage which may arise out of failure on the permittee's part to perform the obligations under this permit. If any claim of liability is made against the State of California, or any departments thereof, the United States of America, a local district or other maintaining agencies and the officers, agents or employees thereof, the permittee shall defend and shall hold each of them harmless from each claim.

**ELEVEN**: The permittee shall exercise reasonable care to operate and maintain any work authorized herein to preclude injury to or damage to any works necessary to any plan of flood control adopted by the Board or the Legislature, or interfere with the successful execution, functioning or operation of any plan of flood control adopted by the Board or the Legislature.

**TWELVE**: Should any of the work not conform to the conditions of this permit, the permittee, upon order of The Central Valley Flood Protection Board, shall in the manner prescribed by the Board be responsible for the cost and expense to remove, alter, relocate, or reconstruct all or any part of the work herein approved.

#### SPECIAL CONDITIONS FOR PERMIT NO. 19017 BD

#### LIABILITY AND INDEMNIFICATION

THIRTEEN: The permittee is responsible for all liability associated with construction, operation, and maintenance of the permitted facilities and shall defend, indemnify, and hold the Central Valley Flood Protection Board and the State of California; including its agencies, departments, boards, commissions, and their respective officers, agents, employees, successors and assigns (collectively, the "State"), safe and harmless, of and from all claims and damages arising from the project undertaken pursuant to this permit, all to the extent allowed by law. The State expressly reserves the right to supplement or take over its defense, in its sole discretion.

FOURTEEN: The permittee shall defend, indemnify, and hold the Central Valley Flood Protection Board and the State of California, including its agencies, departments, boards, commissions, and their respective officers, agents, employees, successors and assigns (collectively, the "State"), safe and harmless, of and from all claims and damages related to the Central Valley Flood Protection Board's approval of this permit, including but not limited to claims filed pursuant to the California Environmental Quality Act. The State expressly reserves the right to supplement or take over its defense, in its sole discretion.

FIFTEEN: The Central Valley Flood Protection Board, Department of Water Resources, and Reclamation District No. 900 shall not be held liable for any damages to the permitted encroachment(s) resulting from flood fight, operation, maintenance, inspection, or emergency repair.

#### **AGENCY CONDITIONS**

SIXTEEN: All work approved by this permit shall be in accordance with the submitted drawings and specifications except as modified by special permit conditions herein. No further work, other than that approved by this permit, shall be done in the area without prior approval of the Central Valley Flood Protection Board.

SEVENTEEN: No construction work of any kind shall be done during the flood season from November 1st to April 15th without prior approval of the Central Valley Flood Protection Board.

EIGHTEEN: The permittee shall be responsible for repair of any damages to the project levee and other flood control facilities due to construction, operation, or maintenance of the proposed project.

NINETEEN: The permittee shall comply with all conditions set forth in the letter from the Department of the Army (U.S. Army Corps of Engineers, Sacramento District) dated June XX, 2015, which is attached to this permit as Exhibit A and is incorporated by reference.

#### PRE-CONSTRUCTION

TWENTY: Upon receipt of a signed copy of the issued permit the permittee shall contact the Central Valley Flood Protection Board by telephone at (916) 574-0609, and submit the enclosed postcard, to schedule a preconstruction conference with the inspector that is assigned to your project. Failure to do so at least 10 working days prior to start of work may result in a delay of the project.

#### CONSTRUCTION

TWENTY-ONE: Electrical lines over 24 volts installed through the levee section and within 10 feet of the levee toes shall be encased in Schedule 40 PVC conduit or equivalent.

TWENTY-TWO: The invert of the electrical conduit through the levee section shall be above the design flood plane elevation of 31 feet, NGV Datum, 33.54 feet NAVD 88.

TWENTY-THREE: Only impervious material shall be used for bedding or backfill within the levee section.

TWENTY-FOUR: The steel piling shells shall be lowered (jacked) into the predrilled hole, as drilling progresses, and shall not be driven into the levee or into the foundation.

TWENTY-FIVE: Voids in the levee adjacent to the exterior of the steel piling shells shall be grouted.

TWENTY-SIX: The top of all new driven piles shall be a minimum distance of 2 feet above the design flood plane elevation of 31.0 feet, NGV Datum, 33.54 feet NGVD 88.

#### **CONSTRUCTION MATERIALS**

TWENTY-SEVEN: If timber piles are used they shall be pressure treated and be a minimum of 12 inches in diameter.

TWENTY-EIGHT: The steel piling shells shall be new steel and a minimum of 0.175 inches in thickness.

#### POST-CONSTRUCTION

TWENTY-NINE: All debris generated by this project shall be disposed of outside the floodway and off all Project Works.

THIRTY: The project site shall be restored to at least the condition that existed prior to commencement of work.

THIRTY-ONE: Upon completion of the project, the permittee shall submit as-constructed drawings to: Department of Water Resources, Flood Project Inspection Section, 3310 El Camino Avenue, Suite 256, Sacramento, California 95821.

#### **OPERATIONS AND MAINTENANCE**

THIRTY-TWO: Debris that may accumulate on the permitted encroachment(s) and related facilities shall be cleared off and disposed of outside the floodway after each period of high water.

THIRTY-THREE: Objects connected to the dock shall be properly secured to prevent detachment during periods of high water.

THIRTY-FOUR: The permittee shall maintain the permitted encroachment(s) and the project works within the utilized area in the manner required and as requested by the authorized representative of the Department of Water Resources, RD-900 or any other agency responsible for maintenance.

THIRTY-FIVE: The permitted encroachment(s) shall not interfere with operation and maintenance of the flood control project. If the permitted encroachment(s) are determined by any agency responsible for operation or maintenance of the flood control project to interfere, the permittee shall be required, at permittee's cost and expense, to modify or remove the permitted encroachment(s) under direction of the Central Valley Flood Protection Board or Department of Water Resources. If the permittee does not comply, the Central Valley Flood Protection Board may modify or remove the encroachment(s) at the permittee's expense.

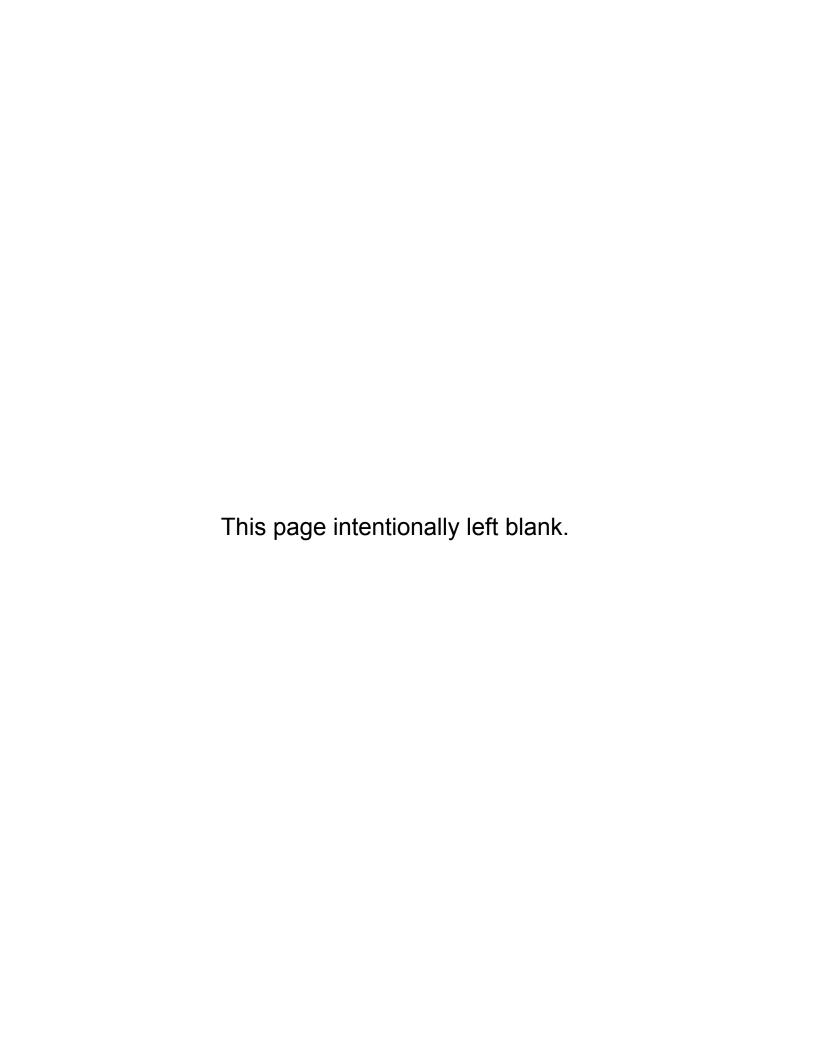
THIRTY-SIX: In the event that levee or bank erosion injurious to the adopted plan of flood control occurs at or adjacent to the permitted encroachment(s), the permittee shall repair the eroded area and propose measures, to be approved by the Central Valley Flood Protection Board, to prevent further erosion.

#### PROJECT ABANDONMENT / CHANGE IN PLAN OF FLOOD CONTROL

THIRTY-SEVEN: If the project, or any portion thereof, is to be abandoned in the future, the permittee or successor shall abandon the project under direction of the Central Valley Flood Protection Board and Department of Water Resources, at the permittee's or successor's cost and expense.

THIRTY-EIGHT: The permittee may be required, at permittee's cost and expense, to remove, alter, relocate, or reconstruct all or any part of the permitted encroachment(s) if removal, alteration, relocation, or reconstruction is necessary as part of or in conjunction with any present or future flood control plan or project or if damaged by any cause. If the permittee does not comply, the Central Valley Flood Protection Board may remove the encroachment(s) at the permittee's expense.

#### **END OF CONDITIONS**

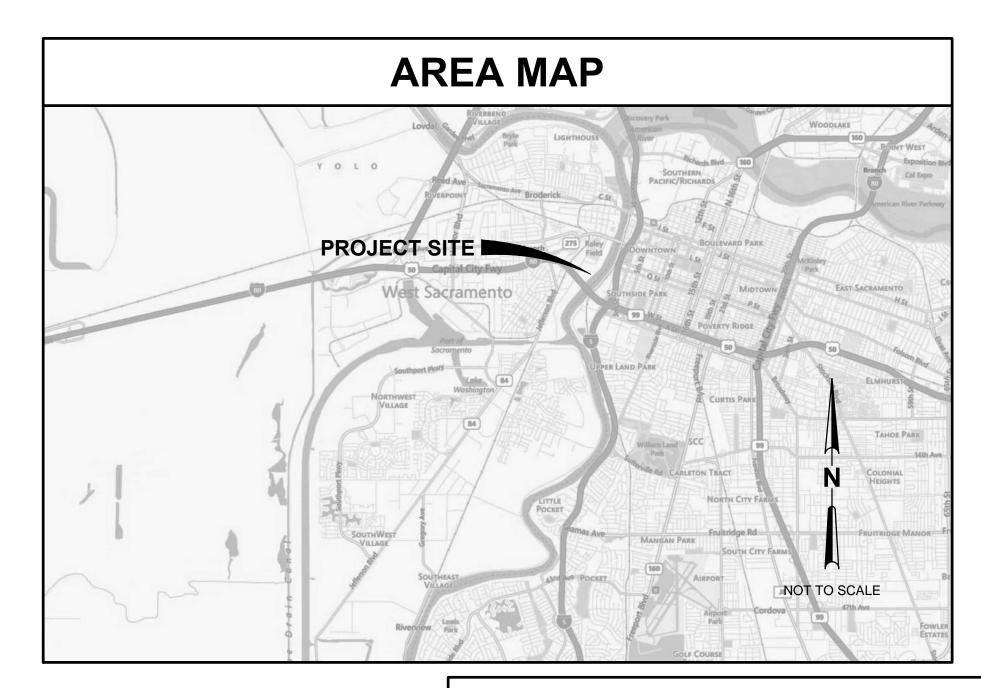


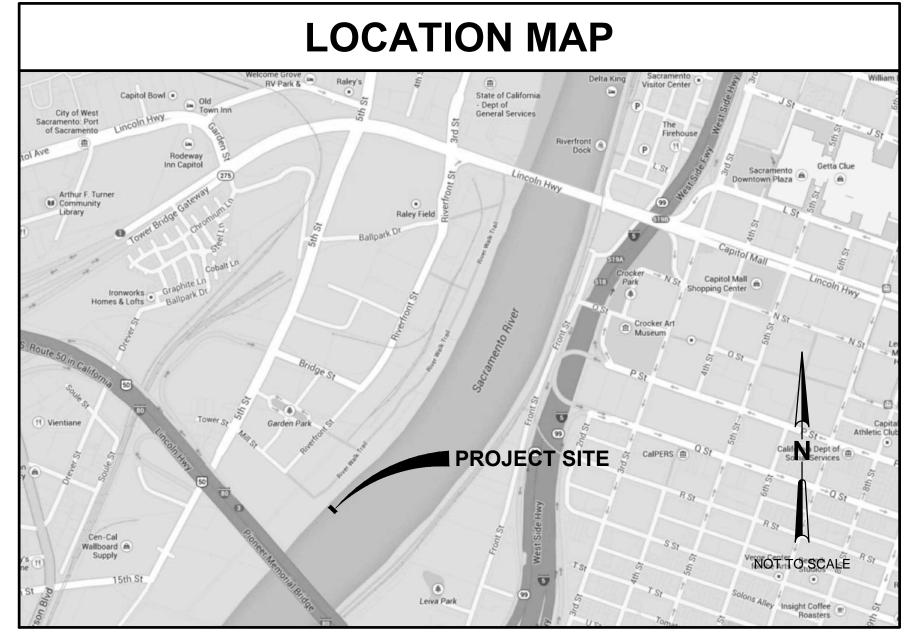
# CITY OF WEST SACRAMENTO

# PUBLIC WORKS DEPARTMENT PLANS FOR THE CONSTRUCTION OF: RICE MILL PIER REHABILITATION PROJECT CITY WORK ORDER NO. 70062

APPROVED BY:

**DENIX ANBIAH DIRECTOR OF PUBLIC WORKS**  DATE





SHEET INDEX						
SHEET	DRAWING			SUBM	ITTAL	
OF	NUMBER	DESCRIPTION	35%	65%	95%	FINAL
		GENERAL				
1	G- 001	COVER SHEET	X	X	X	
2	G- 002	SHEET INDEX, GENERAL NOTES	X	X	Х	
		DEMOLITION				
3	D- 101	SELECTIVE DEMOLITION PLAN	X	X	X	
4	D- 102	SELECTIVE DEMOLITION PLAN			X	
		CIVIL				
5	C- 101	SURVEY CONTROL AND CONSTRUCTION STAGING PLAN	X	X	X	
6	C- 102	SITE PLAN	X	X	X	
		STRUCTURAL				
7	S- 001	LEGEND AND ABBREVIATONS, GENERAL NOTES	X	X	X	
8	S- 002	SPECIAL INSPECTIONS - STRUCTURAL 1	X	X	X	
9	S- 003	SPECIAL INSPECTIONS - STRUCTURAL 2		X	X	
10	S- 111	PIER DECK PLAN AND PIER SUBSTRUCTURE PLAN	X	X	X	
11	S- 131	PIER APPROACH SLAB	X	X	X	
12	S- 132	ABUTMENT SECTIONS	X	X	X	
13	S- 311	PIER ELEVATION	X	X	X	
14	S- 312	PIER SECTIONS			X	
15	S- 511	PILE CONNECTON DETAILS		X	X	
16	S- 512	STRUCTURAL DETAILS	X	X	X	
		ELECTRICAL				
17	E- 001	ELECTRICAL ABBREVIATIONS, LEGEND, AND GENERAL NOTES	X	Х	X	
18	E- 131	PIER LIGHTING PLAN	X	X	X	
19	E- 501	ELECTRICAL DETAILS AND ONE-LINE DIAGRAM		X	X	

AGENCY CONTACTS			
CITY PROJECT MANAGER	JOHN SNEED	(916) 617-4645	
CITY PROJECT ENGINEER	DERECK GOODWIN	(916) 617-4645	
CITY CONSTRUCTION ADMINISTRATOR	A.E. "DREW" GIDLOF	(916) 617-4645	
PUBLIC WORKS OPERATIONS MANAGER	DAN MOUNT	(916) 617-4850	
CITY FIRE DEPARTMENT	BRYAN JONSON	(916) 617-4600	
CITY POLICE DEPARTMENT		(916) 617-4900	
UNDERGROUND SERVICE ALERT (USA)		811	
WASH. UNIFIED SCHOOL DIST.	DAUN MANNING	(916) 375-7600	
YOLO CO. COMMUNICATIONS	BRUCE ANDREOZZI	(530) 666-8900	
YOLO DEPT. OF ENVIRONMENTAL HEALTH	B. SARAZIN	(530) 666-8646	
YOLO COUNTY GENERAL SERVICES	CINDY BURGH	(530) 666-8095	
(AFTER HOURS) YOLO COUNTY DISPATCHER		(530) 666-8920	
YOLO-SOLANO AIR POLLUTION	CAROL CASE	(530) 757-3650	
YOLO COUNTY TRANSPORTATION DISTRICT	TERRY BASSETT	(530) 661-0816	

PRIVATE (	UTILITY CONT	<b>TACTS</b>
AT&T	ASTRID WILLARD	(916) 638-849
MCI	ED FRITZGERALD	(916) 991-225
SBC	PAUL HENDERSON	(916) 453-711
PG&E (ELECTRICAL)		(530) 661-565
PG&E (GAS)		(530) 661-565
RD 900	KEN RUZICH	(916) 371-148
WAVE BROADBAND	KIRK ELLINGSON	(916) 630-718
WASTE MANAGEMENT		(800) 443-259
YOLO BUS		(530) 371-287

EMERGENCY CONTACTS			
FIRE/POLICE	911		
WATER/SEWER	(916) 617-4850		
P.G.&E. 24-HOUR EMERGENCY	1-800-743-5000		
AT&T	1-800-227-2600		
ELECTRIC LIGHTWAVE	1-800-622-4354		
YOLO COUNTY DISPATCHER	(530) 666-2877		
U.S. COAST GUARD, FLOTILLA 35, DISTRICT 11N			
YOLO COUNTY DISPATCHER	(916) 789-5948		
TOWER BRIDGE	(916) 422-5298		

PRELIMINARY - NOT FOR CONSTRUCTION - 95% SUBMITTAL

Reuse of Documents This document and the ideas and designs incorporated herein, as an instrument of professional service, is the roperty of GHD Inc. and shall not be reused in whole or in part for any other project without GHD Inc.'s written authorization. © GHD Inc. 2014 Note: \* indicates signatures on original issue of drawing or last revision of drawing







505 Montgomery Street Suite 2300 San Francisco California 94111 l T 1 415 283 4970 F 1 415 283 4980 W www.ghd.com Scale AS SHOWN

	Drawn PS		Designer	NO	Client
					Project
	Drafting SD Check		Design Check	CSS	Title
	Approved (Project Director)				
USA	Date	MARCH 20	014		City Wo
					0

and Sealed For Construction

**CITY OF WEST SACRAMENTO** RICE MILL PIER REHABILITATION **COVER SHEET** 

Vork Order Numbr 70062 This Drawing shall not be used Original Size for Construction unless Signed ANSI D Drawing No: G-001

Rev:

DRAINAGE INLET

**ELECTRIC VAULT COVER** 

HIGH VOLTAGE ELECTRIC

TRAFFIC SIGNAL

# **GENERAL NOTES**

#### PROJECT DESCRIPTION

THE CONTRACTOR SHALL PROVIDE THE DESIGN, AS WELL AS ALL LABOR, SUPERVISION, EQUIPMENT, APPLIANCES AND MATERIALS REQUIRED TO PERFORM ALL OPERATIONS IN CONNECTION WITH AT LEAST, BUT NOT NECESSARILY LIMITED TO, THE SUCCESSFUL COMPLETION OF THE FOLLOWING ITEMS, ALL IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS:

- DEMO (E) STRUCTURE WHERE SHOWN ON PLANS.
- INSTALL NEW 3" THK. CONCRETE DECK FINISH OVER (E) PIER DECK, REINFORCED W/ 6X6 - W4.0 X WR.0 WELDED WIRE MESH (CENTRAL); ROUGHEN (E) PIER DECK PRIOR TO (N) DECK FINISH POUR
- INSTALL NEW CONCRETE CURB AND HANDRAIL ASSEMBLY PER DETAILS S-512
- INSTALL NEW APPROACH RAMP PER PLAN S-131
- INSTALL NEW COLLAR CONNECTION PER DETAIL 3, SHEET S-511
- INSTALL NEW COLLAR CONNECTION PER DETAIL 1, SHEET S-511
- INSTALL NEW SHEAR PLATE CONNECTIONS PER SECTION A, SHEET

SHOULD THE CONTRACTOR OR ANY SUBCONTRACTOR FIND ANY DEFICIENCIES, ERRORS, CONFLICTS OR OMISSIONS IN THESE PLANS AND SPECIFICATIONS OR SHOULD THERE BE DOUBT AS TO THEIR MEANING OR INTENT, THE CONTRACTOR SHALL CEASE WORK AND THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY. THE ENGINEER WILL PROVIDE WRITTEN CLARIFICATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND CONTROL POINTS. ALL MONUMENTS DESTROYED DURING CONSTRUCTION SHALL BE RESURVEYED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

DIMENSIONS AND EXISTING CONDITIONS DEPICTED ON THE CONTRACT DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES SHALL BE NOTED BY THE CONTRACTOR AND REVIEWED WITH THE OWNER PRIOR TO ORDERING, CONSTRUCTION, OR FABRICATION OF CONSTRUCTION MATERIALS.

ALL SECTIONS, DETAILS, NOTES, DIMENSIONS AND CONDITIONS ARE APPLICABLE AT ANY OTHER LOCATION WHERE CONDITIONS AND DETAILS ARE SIMILAR BUT ARE NOT SPECIFICALLY NOTED AS SUCH OR ARE NOT SHOWN.

#### CONSTRUCTION NOTES

(IF THERE IS A CONFLICT BETWEEN THESE NOTES AND DIVISION 1 OF THE PROJECT SPECIFICATIONS THE MORE RESTRICTIVE REQUIREMENT SHALL TAKE PRECEDENCE.)

- ALL OFF-SITE CONSTRUCTION MATERIAL AND METHODS SHALL COMPLY WITH THE LATEST EDITION OF THE CITY OF WEST SACRAMENTO STANDARD PLANS & SPECIFICATIONS.
- THE POLICE AND FIRE DEPARTMENTS.
- CONTRACTOR SHALL POST ON THE SITE, EMERGENCY TELEPHONE NUMBERS FOR PUBLIC WORKS, AMBULANCE, POLICE, AND FIRE DEPARTMENTS.
- CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO THE UTILITY UNLESS AN EXCAVATION PERMIT SPECIFIES OTHERWISE.
- EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ARE FOR INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH WITH THE APPROPRIATE AGENCIES. NEITHER THE OWNER NOR THE DESIGN PROFESSIONAL ASSUMES RESPONSIBILITY THAT THE UTILITIES AND UNDERGROUND FACILITIES INDICATED WILL BE THE UTILITIES AND UNDERGROUND FACILITIES ENCOUNTERED.
- CONTRACTOR TO CONTACT UNDERGROUND SERVICE ALERT U.S.A. 800-227-2600 FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING WORK TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, LOCATE, AND PROTECT ALL UNDERGROUND FACILITIES.
- THE CONTRACTOR SHALL HIRE A STREET CLEANING CONTRACTOR TO CLEAN UP DIRT AND DEBRIS FROM CITY STREETS THAT ARE ATTRIBUTABLE TO THE PROJECT'S CONSTRUCTION ACTIVITIES.
- ALL GRADING SHALL BE PERFORMED IN SUCH A MANNER AS TO COMPLY WITH THE STANDARDS ESTABLISHED BY THE PROJECT SPECIFICATIONS AND AGENCIES HAVING JURISDICTION FOR AIRBORNE PARTICULATES (DUST)
- ALL GRADING SHALL CONFORM TO APPROVED SPECIFICATIONS PRESENTED HEREON OR ATTACHED HERETO. ALL GRADING WORK SHALL BE OBSERVED AND APPROVED BY THE SOILS ENGINEER. THE 4. BACK UP EROSION CONTROL MATERIALS SHALL BE STOCKPILED ON SOILS ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE BEGINNING ANY GRADING. UNOBSERVED AND UNAPPROVED

GRADING WORK SHALL BE REMOVED AND REDONE AT THE CONTRACTOR'S EXPENSE.

10. ALL MATERIALS, REQUIRED FOR THE COMPLETE EXECUTION OF THE PROJECT, SHALL BE FURNISHED AND INSTALLED BY THE

11. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY DURING THE CONSTRUCTION PERIOD.

CONTRACTOR UNLESS OTHERWISE NOTED.

12. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING IMPROVEMENTS OR UNDERGROUND FACILITIES DAMAGED DURING THE CONSTRUCTION PERIOD.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL ENCROACHMENT, EXCAVATION, CONCRETE, ELECTRICAL, PLUMBING, ETC. PERMITS NECESSARY PRIOR TO BEGINNING CONSTRUCTION FOR ANY WORK.

14. THE CONTRACTOR SHALL HAVE A SUPERINTENDENT OR REPRESENTATIVE ON SITE AT ALL TIMES DURING CONSTRUCTION.

15. STORAGE OF CONSTRUCTION MATERIAL AND EQUIPMENT ON STREETS WILL NOT BE PERMITTED.

16. CONSTRUCTION EQUIPMENT SHALL BE PROPERLY MUFFLED. UNNECESSARY IDLING OF GRADING CONSTRUCTION EQUIPMENT IS PROHIBITED.

17. CONSTRUCTION EQUIPMENT, TOOLS, ETC. SHALL NOT BE CLEANED OR RINSED INTO A STREET, GUTTER OR STORM DRAIN.

18. A CONTAINED AND COVERED AREA ON-SITE SHALL BE USED FOR STORAGE OF CEMENT BAGS, PAINTS, FLAMMABLE, OILS, FERTILIZERS, PESTICIDES, OR ANY OTHER MATERIALS THAT HAVE POTENTIAL FOR BEING DISCHARGED TO THE STORM DRAIN SYSTEM BY WIND OR IN THE EVENT OF A MATERIAL SPILL.

19. ALL CONSTRUCTION DEBRIS SHALL BE GATHERED ON A REGULAR BASIS AND PLACED IN A DUMPSTER WHICH IS EMPTIED OR REMOVED WEEKLY. WHEN FEASIBLE, TARPS SHALL BE USED ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORMWATER POLLUTION.

20. ANY TEMPORARY ON-SITE CONSTRUCTION PILES SHALL BE SECURELY COVERED WITH A TARP OR OTHER DEVICE TO CONTAIN DEBRIS.

21. CONCRETE TRUCKS AND CONCRETE FINISHING OPERATIONS SHALL NOT DISCHARGE WASH WATER INTO THE STREET GUTTERS OR DRAINS.

CONTRACTOR SHALL LEAVE AN EMERGENCY PHONE NUMBER WITH 22. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY IF EXISTING UTILITIES WITHIN THE PROJECT LIMITS ARE SERVING EXISTING FACILITIES OR NOT. THOSE THAT SERVE EXISTING FACILITIES SHALL BE RELOCATED IN SUCH A MANNER AS TO MAINTAIN UNINTERRUPTED SERVICE. ANY EXISTING UTILITIES WITHIN THE PROJECT LIMITS THAT DO NOT SERVE ANY OTHER EXISTING FACILITIES TO REMAIN SHALL BE DEMOLISHED OR ABANDONED IN PLACE AS INDICATED ON THE PLANS.

> 23. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THE REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT, EXCEPTING LIABILITY ARISING FROM SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

# **EROSION CONTROL NOTES**

Drawn Manager Director

CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND IMPLEMENTING A PROJECT SWPPP PER THE CURRENT NPDES GENERAL PERMIT REQUIREMENTS.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MONITORING AND REPORTING. THE OWNER SHALL REGISTER THE PROJECT VIA SMARTS AND ESTABLISH ACCESS FOR THE QSO.

3. THE EROSION CONTROL MEASURES SHOWN HERE ARE THE MINIMUM RECOMMENDED. IT IS THE CONTRACTOR'S QSD/QSP RESPONSIBILITY TO DEVELOP A SPECIFIC PLAN OF BMP'S (BEST MANAGEMENT PRACTICES) FOR THE PROJECT SITE APPROPRIATE TO THE PHASE OF CONSTRUCTION AND THE TIME OF YEAR.

THE SITE TO ALLOW FOR TIMELY REPAIR AND MAINTENANCE OF ALL

BMP'S.

ADA COMPLIANCE NOTES:

ALL SITE WORK SHALL BE IN CONFORMANCE WITH TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE AND WITH THE AMERICANS WITH DISABILITIES ACT. THESE NOTES ARE GENERAL ADA COMPLIANCE REQUIREMENTS; NOT ALL MAY APPLY TO THE PROJECT.

1. RAMPS SHALL NOT EXCEED A SLOPE OF 1:12 (8.33%).

RAMPS TO BUILDINGS SHALL NOT EXCEED A SLOPE OF 1:20 (5%) UNLESS RAILINGS ARE SHOWN ON ARCHITECTURAL PLANS, IN WHICH CASE THE SLOPE SHALL NOT EXCEED 1:12 (8.33%).

3. A 2% MAXIMUM SLOPE LANDING SHALL BE PROVIDED AT PRIMARY ENTRANCES TO BUILDINGS, THE LANDINGS SHALL HAVE A MINIMUM WIDTH OF 60" AND A MINIMUM DEPTH OF 60" WHEN THE DOOR OPENS INTO THE BUILDING, AND 42" PLUS THE WIDTH OF THE DOOR

12. ALL GRADING WITHIN DRIP LINE OF TREES SHALL BE DONE WITH WHEN THE DOOR OPENS ONTO THE LANDING.

RAMPS ARE DEFINED AS ANY WALKWAY BETWEEN SLOPES OF 1:20 (5%) AND 1:12 (8.33%), AND SHALL HAVE A MINIMUM WIDTH OF 48" AND A MAXIMUM CROSS-SLOPE OF 2%. RAMPS EXCEEDING 2'-6" VERTICAL SHALL HAVE INTERMEDIATE (2% MAXIMUM SLOPE) LANDINGS HAVING A MINIMUM LENGTH IN THE DIRECTION OF TRAVEL OF 60". BOTTOM LANDINGS AT CHANGES IN RAMP DIRECTION SHALL HAVE A MINIMUM LENGTH OF 72". RAMPS FINISH SHALL BE STABLE, FIRM, SLIP-RESISTANT, CONTAIN A 12 INCH WIDE CONTINUOUS GROOVED BORDER ALONG THE TOP EDGE, AND HAVE A DETECTABLE WARNING SURFACE AT THE BASE OF THE RAMP.

MAXIMUM CROSS SLOPE ON ANY SIDEWALK OR RAMP SHALL BE 2%. MAXIMUM SLOPE WITHIN PARKING STALLS DESIGNATED AS HANDICAPPED PARKING SHALL BE 2% IN ANY DIRECTION.

6. ALL SIDEWALK SHALL HAVE A 4' MINIMUM CLEAR WIDTH FOR ACCESSIBLE CONFORMANCE.

DETECTABLE WARNING SURFACES SHALL BE INSTALLED ALONG WALKWAYS AND AT RAMPS PER CITY STANDARDS.

8. PROVIDE 80" OVERHANG CLEARANCE AT WALKWAYS.

RAMP FINISH SHALL BE STABLE, FIRM, AND SLIP-RESISTANT PER CITY STANDARDS.

NO CUTTING OF ANY PART OF CITY TREES, INCLUDING ROOTS SHALL BE DONE WITHOUT SECURING APPROVAL AND DIRECT SUPERVISION FROM THE CITY ARBORIST.

NO CUTTING OF ANY PART OF PRIVATE TREES, INCLUDING ROOTS, SHALL BE DONE WITHOUT DIRECT SUPERVISION OF A CERTIFIED ARBORIST (CERTIFICATION OF INTERNATIONAL SOCIETY OF ARBORICULTURE).

3. WHEN CONSTRUCTION OCCURS WITHIN DRIP LINE ON EXISTING TREES, CONTRACTOR IS TO PILE THE SOIL ON THE SIDE AWAY FROM THE TREE. WHEN THIS IS NOT POSSIBLE, PLACE SOIL ON PLYWOOD. A TARP, OR THICK BED OF MULCH. THIS IS TO HELP PREVENT CUTTING INTO THE SOIL SURFACE WHEN THE BACKHOE OR TRACTOR BLADE REFILLS THE TRENCH.

4. REFILL OPEN TRENCHES QUICKLY WITHIN HOURS OF EXCAVATION WHEN THEY OCCUR WITHIN THE DRIP LINE OF EXISTING TREES. IF THIS IS NOT POSSIBLE AND WEATHER IS HOT, DRY, OR WINDY, CONTRACTOR MUST KEEP ROOT ENDS MOIST BY COVERING THEM WITH WET BURLAP. IF TEMPERATURE IS 80°F OR GREATER, THE BURLAP MUST BE INSPECTED EVERY HOUR AND RE-WET A NECESSARY TO MAINTAIN A CONSTANT COOL MOIST CONDITION. IF TEMPERATURE IS BELOW 80°, THE BURLAP MUST BE INSPECTED EVERY FOUR HOURS AND RE-WET AS NECESSARY TO MAINTAIN A CONSTANT COOL MOIST CONDITION. SMALL ROOTS CAN DRY OUT AND DIE IN 10-15 MINUTES. LARGER ROOTS CAN SUCCUMB IN AN HOUR OR LESS UNDER UNFAVORABLE WEATHER CONDITIONS.

5. WHEN ROOTS 2" OR LARGER MUST BE CUT, SHOVEL BY HAND NEAR THE ROOTS AND SAW THE ROOTS. ACCIDENTALLY BROKEN ROOTS SHOULD BE SAWED A COUPLE OF INCHES BEHIND THE RAGGED END. CRUSHED OR TORN ROOTS ARE MORE LIKELY TO ALLOW DECAY TO BEGIN; SHARPLY CUT ROOTS PRODUCE A FLUSH OF NEW ROOTS HELPING THE TREE TO RECOVER FROM ITS INJURY.

6. CONTRACTOR SHALL NOTIFY CITY ARBORIST 72 HOURS IN ADVANCE OF ANY WORK REQUIRING DIGGING AROUND OR WITHIN THE DRIP LINE OF EXISTING TREES.

A CLEAR SYSTEM OF FLAGGING MUST BE PROVIDED AROUND TREES WITHIN 20' OF PROPOSED GRADING AS REQUIRED BY CITY ARBORIST.

MATERIALS, EQUIPMENT, TEMPORARY BUILDINGS, FUELS, PAINTS AND OTHER CONSTRUCTION ITEMS ARE NOT TO BE PLACED WITHIN

### THE DRIP LINE OF EXISTING TREES.

- 9. NO TRENCHING SHALL BE DONE WITHIN THE DRIP LINE OF EXISTING TREES WITHOUT THE APPROVAL OF THE CITY ARBORIST. OPEN TRENCHING IN THE ROOT ZONE OF A PUBLIC TREE IS PROHIBITED EXCEPT IN CASES WHERE THE TRENCHING FALLS OUTSIDE THE DRIP LINE OF THE TREE INVOLVED. EXCEPTIONS WILL BE ALLOWED IF, IN THE OPINION OF THE CITY ARBORIST, THE IMPACT OF TRENCHING UPON THE TREE WILL BE NEGLIGIBLE.
- 10. ANY CUTTING OF EXISTING ROOTS SHALL BE DONE WITH LIGHT APPROVED EQUIPMENT UNDER THE DIRECT SUPERVISION OF THE CITY ARBORIST. ORIGINAL GRADE AT BASE OF EXISTING TREES IS NOT TO CHANGE. IF NECESSARY, DRY WELLS ARE TO BE USED IF GRADE IS TO RISE.
- GRADING SHOULD NOT CREATE DRAINAGE PROBLEMS FOR TREES BY CHANNELING WATER INTO THEM, OR CREATING SUNKEN AREAS.
- LIGHT, APPROVED EQUIPMENT UNDER THE DIRECT SUPERVISION OF THE CITY ARBORIST. ORIGINAL GRADE AT BASE OF EXISTING TREES IS NOT TO CHANGE. IF NECESSARY, DRY WELLS ARE TO BE USED IF GRADE IS TO RISE.
- 13. WHEN TRENCHING IS ALLOWED, THE CONTRACTOR MUST FIRST CUT ROOTS WITH A VERMEER ROOT CUTTER PRIOR TO ANY TRENCHING TO AVOID TUGGING OR PULLING OF ROOTS.

ABDN

ASPH

BFP

BOL

CG&S/W

CI

CL

CO

CU

CY

DET

DIA

DWG

EVA

F/C,FC

EX

FD

FΗ

GB

GRD

FDC

FF,FFE

FOUND

CONC

CONF

CONST

BLDC

AD

DIAMETER

**ABANDONED** 

AREA DRAIN

**ASPHALT** 

BOLLARD

CENTERLINE

**CLEAN OUT** 

CONCRETE

CUBIC YARD

DROP INLE

DIAMETER

DRAWING

EXISTING

FOUND

FACE OF CURB

FINISH GRADE

FIRE HYDRANT

**FOUNDATION** 

FOOT, FEET

**GRADE BREAK** 

HOT MIX ASPHALT

GROUND

**INSTALL** 

INVERT

JOINT POLE

JOINT TRENCH

LENGTH (CURVE)

LIGHT POLE, LOW POINT

LANDSCAPE ARCHITECT

LIP OF GUTTER

LANDSCAPE

FINISHED SURFACE

GAS, GROUND ELEVATION

HANDICAP ACCESSIBLE RAMP

HIGH POINT OR HP. TYPE STEEL SHAPE

FLOW LINE

EL, ELEV ELEVATION

EXIST, (E) EXISTING

EAST, ELECTRIC

**EDGE OF PAVEMENT** 

**EMERGENCY VEHICLE ACCESS** 

FIRE DEPARTMENT CONNECTION

FINISHED FLOOR ELEVATION

CUBIC

BSW, BW BACK OF SIDEWALK

AGGREGATE BASE

AGGREGATE SUBBASE

**BACK FLOW PREVENTER** 

BUILDING CORNER

BOTTOM OF DOCK

CONCRETE OR CIVIL **CURB AND GUTTER** 

**CURB, GUTTER & SIDEWALK** 

CAST IRON OR CURB INLET

CONFORM TO EXISTING

CONSTRUCTION OR CONSTRUCT

AMERICANS WITH DISABILITIES ACT

BEST MANAGEMENT PRACTICES

- 14. TREES THAT ARE DETERMINED TO BE REMOVED BY THE CITY ARBORIST DUE TO CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR. CITY ARBORIST TO DETERMINE SPECIE, SIZE AND SPACING.
- PLACE 1"-2" OF MULCH AROUND ALL EXISTING TREES (OUT TO THEIR DRIP LINE) THAT ARE TO BE PRESERVED PRIOR TO ANY CONSTRUCTION.
- 16. NO BORE PITS ALLOWED WITHIN THE DRIP LINE OF ANY TREE.
- 17. TREE PROTECTION:

**ABBREVIATIONS** 

MAX

MH

MIN

NO

O.R.

PΑ

PED

PID

PIV

PL

PM

PP

PRUE

**RPPA** 

SDI

S.E.D.

SHLDR

SMH

SSCO

STD

SWPPP

TFC

TOD

TOE

TYP

UON

U/G

WM

WWF

YDS

Drawn PS

Drafting SD Check

Approved

TW,TOW

SS

NTS

MON

18. CONTRACTOR SHALL TAG AND IDENTIFY EXISTING TREES WHICH ARE TO REMAIN WITHIN THE PROJECT LIMITS AND ON THE PUBLIC RIGHT-OF-WAY PRIOR TO START OF WORK. PROTECT ALL SUCH EXISTING TREES AT ALL TIMES FROM DAMAGE BY MEN AND EQUIPMENT. REPAIR ALL MINOR DAMAGE TO EXISTING TREES BY USING A LICENSED TREE SURGEON OR OTHER PERSONNEL APPROVED BY THE CITY ARBORIST. REMOVE SUCH TREES PERMANENTLY DISFIGURED OR KILLED, INCLUDING ROOTS FROM THE SITE AND REPLACE EACH SUCH TREE OR TREES WITH EQUAL SIZED TREES IF POSSIBLE. OR REIMBURSE THE OWNER THE COST LISTED BELOW IF SUCH REPLACEMENT IS NOT POSSIBLE. THE CITY ARBORIST SHALL BE THE SOLE JUDGE OF THE CONDITION OF ANY TREE. PROVIDE REGULAR WATERING OF EXISTING LANDSCAPING WITHIN THE CONSTRUCTION AREA THROUGH THE CONSTRUCTION

MAXIMUM

MANHOLE

MINIMUM

NORTH

NUMBER

NEW

**MONUMENT** 

NOT IN CONTRACT

OFFICIAL RECORDS

PAVEMENT ELEVATION

POST INDICATOR VALVE

PRIVATE UTILITY EASEMENT

PUBLIC UTILITY EASEMENT

RELATIVE COMPACTION

REINFORCED CONCRETE PIPE

REDUCED PRESSURE PRINCIPLE

SEE ARCHITECTURAL DRAWINGS

NOT TO SCALE

PLANTER AREA

PROPERTY LINE

PARKING METER

POWER MANHOLE

POWER POLE

RADIUS POINT

SOUTH, SLOPE

STORM DRAIN

SILT FENCE

SUBGRADE

SHOULDER

STANDARD

**SIDEWALK** 

**TELEPHONE** 

TOP OF CURB

TRENCH DRAIN

TOP OF DOCK

TOE OF SLOPE

TOP OF WALL

TOP OF SLAB

UNDERGROUND

WEST, WATER

WATER METER

WITH

YARDS

WELDED WIRE FABRIC

TYPICAL

TOP FACE OF CURB

**STREETLIGHT** 

SIGNAL MANHOLE

SANITARY SEWER

STORM DRAIN INLET

STORM DRAIN MANHOLE

SEE ELECTRICAL DRAWINGS

SEE LANDSCAPE DRAWINGS

SANITARY SEWER CLEANOUT

**UNLESS OTHERWISE NOTED** 

Designer CL

CSS

STORM WATER POLLUTION PREVENTION PLAN

**ASSEMBLY** 

PEDESTRIAN

POTHOLE

POINT ID

RIGHT

R/W, ROW RIGHT OF WAY

# SYMBOLS LEGEND

**SYMBOLS** 

6" CURB & GUTTER IRRIGATION BOX EDGE OF AC PAVEMENT **GAS METER** 6" VERTICAL CURB GAS VALVE —— OH —— OVERHEAD WIRES WATER METER —— OHE—— OVERHEAD ELECTRIC WIRES WATER VALVE ——OHT—— OVERHEAD TELEPHONE WIRES WATER VALVE

— UGE — UNDERGROUND ELECTRIC LINE FIRE HYDRANT — E — ELECTRIC LINE FIRE DEPARTMENT CONNECTION

——SL —— STREET LIGHT CONDUIT WATER TAPPING SADDLE — G — GAS LINE **SEWER MANHOLE** SEWER CLEANOUT

—— SS —— SANITARY SEWER LINE ----- SD ---- STORM DRAIN LINE SEWER LAMP HOLE — T — TELEPHONE LINE **SEWER VENT** 

— TV — TELEVISION LINE STORM DRAIN MANHOLE —— W—— WATER LINE CATCH BASIN ——FW —— FIRE WATER MAIN **CURB INLET** 

—DW — DOMESTIC WATER MAIN

—— CR —— CONDENSATE RETURN

——89 —— CONTOUR ELEVATION LINE

--- CHWR --- CHILLED WATER RETURN STORM DRAIN CLEANOUT —— CHWS —— CHILLED WATER SUPPLY RAIN WATER LEADER

ELECTRIC PULLBOX ——HWR —— HOT WATER SUPPLY TELEVISION PULLBOX **TELEPHONE PULLBOX** 

TELEPHONE MANHOLE **POWER POLE** 

TRENCH DRAIN **GUY WIRE & ANCHOR** JOINT POLE WITH (2) RISERS

- o - - SILT FENCE JOINT POLE -x - CHAIN LINK FENCE STREET LIGHT — · · · — FLOW LINE 

OTS TRAFFIC SIGNAL — — CENTER LINE — EXISTING PROPERTY LINE PEDESTRIAN LIGHT PEDESTRIAN PUSH BUTTON — · · · — MONUMENT LINE

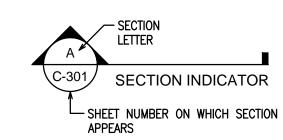
 EXISTING EASEMENT LINE CROSSWALK DETECTOR TC 24.52 FINISH GRADE STREET LIGHT PULLBOX 2.0%\_ SURFACE DRAINAGE SLOPE SIGN (AS NOTED)

x 95.94 SPOT ELEVATION WHEELCHAIR RAMP

**ANNOTATION** 

**DEMOLITION NOTE** 

NUMBER C-101, DETAIL INDICATOR SHEET NUMBER ON WHICH DETAIL APPEARS



PRELIMINARY - NOT FOR CONSTRUCTION - 95% SUBMITTAL

Client CITY OF WEST SACRAMENTO

RICE MILL PIER REHABILITATION LEGEND, ABBREVIATIONS, AND GENERAL NOTES

City Work Order Numbr 70062This Drawing shall not be used Original Size

| Sht - of 19

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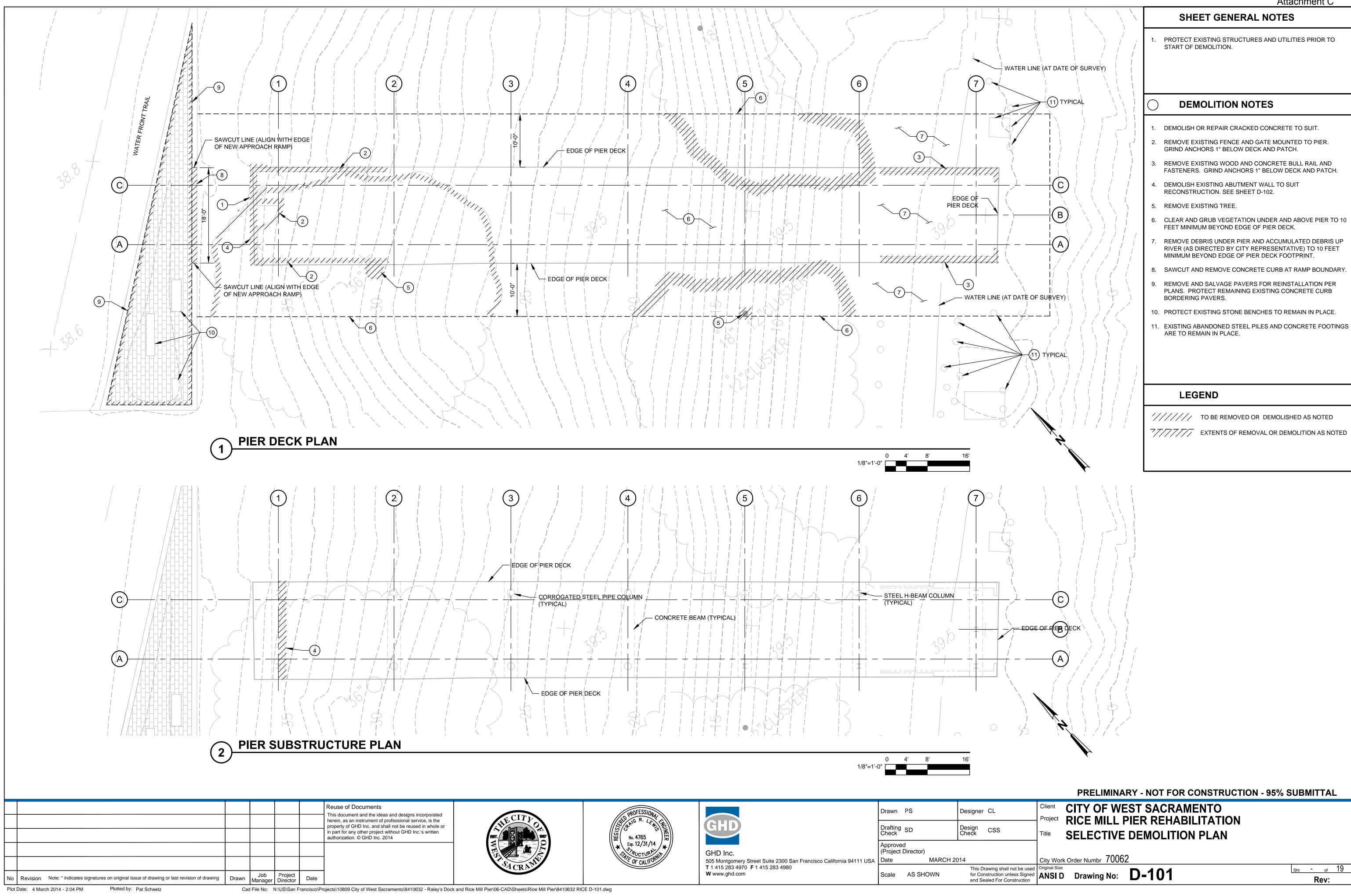
(Project Director)

MARCH 2014 Scale NONE and Sealed For Construction

for Construction unless Signed ANSI D Drawing No: G-002

Rev:

Revision Note: \* indicates signatures on original issue of drawing or last revision of drawing





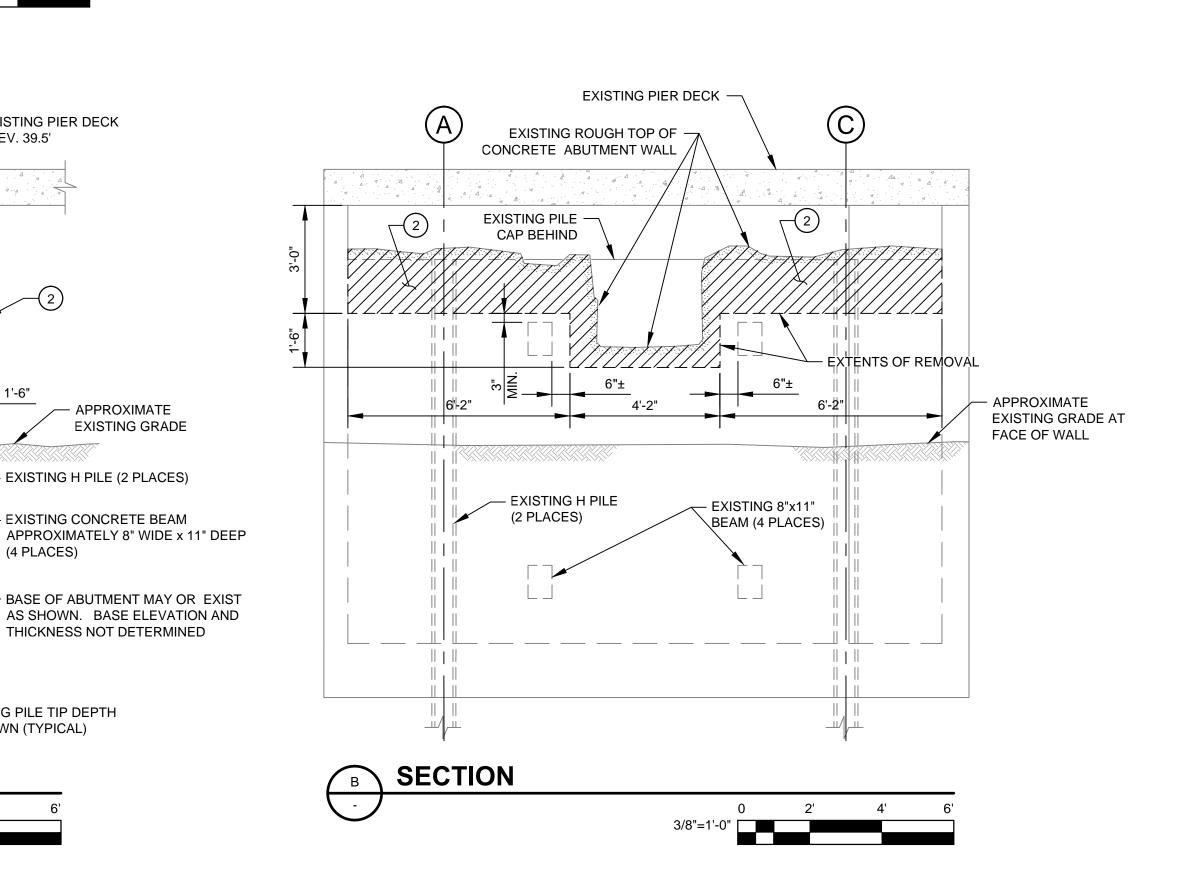
- 1. PROTECT EXISTING STRUCTURES AND UTILITIES PRIOR TO START OF DEMOLITION.
- 2. RECORD DRAWINGS OF THE PIER ARE UNAVAILABLE. EXISTING STRUCTURE DIMENSIONS SHOWN ARE APPROXIMATE FIELD MEASUREMENTS AND SHOULD BE VERIFIED BY CONTRACTOR.

# **DEMOLITION NOTES**

- 1. DEMOLISH EXISTING ABUTMENT WALL TO SUIT RECONSTRUCTION.
- 2. SAWCUT EXISTING ABUTMENT WALL REMOVING SUFFICIENT SPALLED ROUGH CONCRETE AND REINFORCEMENT FOR REPAIR. SEE SHEET S-132.

# **LEGEND**

////// TO BE REMOVED OR DEMOLISHED AS NOTED 7///// EXTENTS OF REMOVAL OR DEMOLITION AS NOTED



PRELIMINARY - NOT FOR CONSTRUCTION - 95% SUBMITTAL

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— EXISTING PIER DECK

- APPROXIMATE

- EXISTING H PILE (2 PLACES)

EXISTING CONCRETE BEAM

(4 PLACES)

EXISTING PILE TIP DEPTH UNKNOWN (TYPICAL)

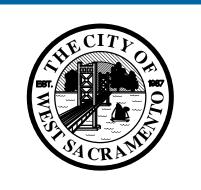
**EXISTING GRADE** 

ELEV. 39.5'

**PLAN** 

1'-4" | 3'-10"

SECTION







W www.ghd.com

Approved (Project Director) 505 Montgomery Street Suite 2300 San Francisco California 94111 USA Date T 1 415 283 4970 F 1 415 283 4980

Designer NO/CSS Drawn PS Design CL Check

Scale AS SHOWN

Client CITY OF WEST SACRAMENTO RICE MILL PIER REHABILITATION **SELECTIVE DEMOLITION** 

City Work Order Numbr 70062

This Drawing shall not be used for Construction unless Signed and Sealed For Construction

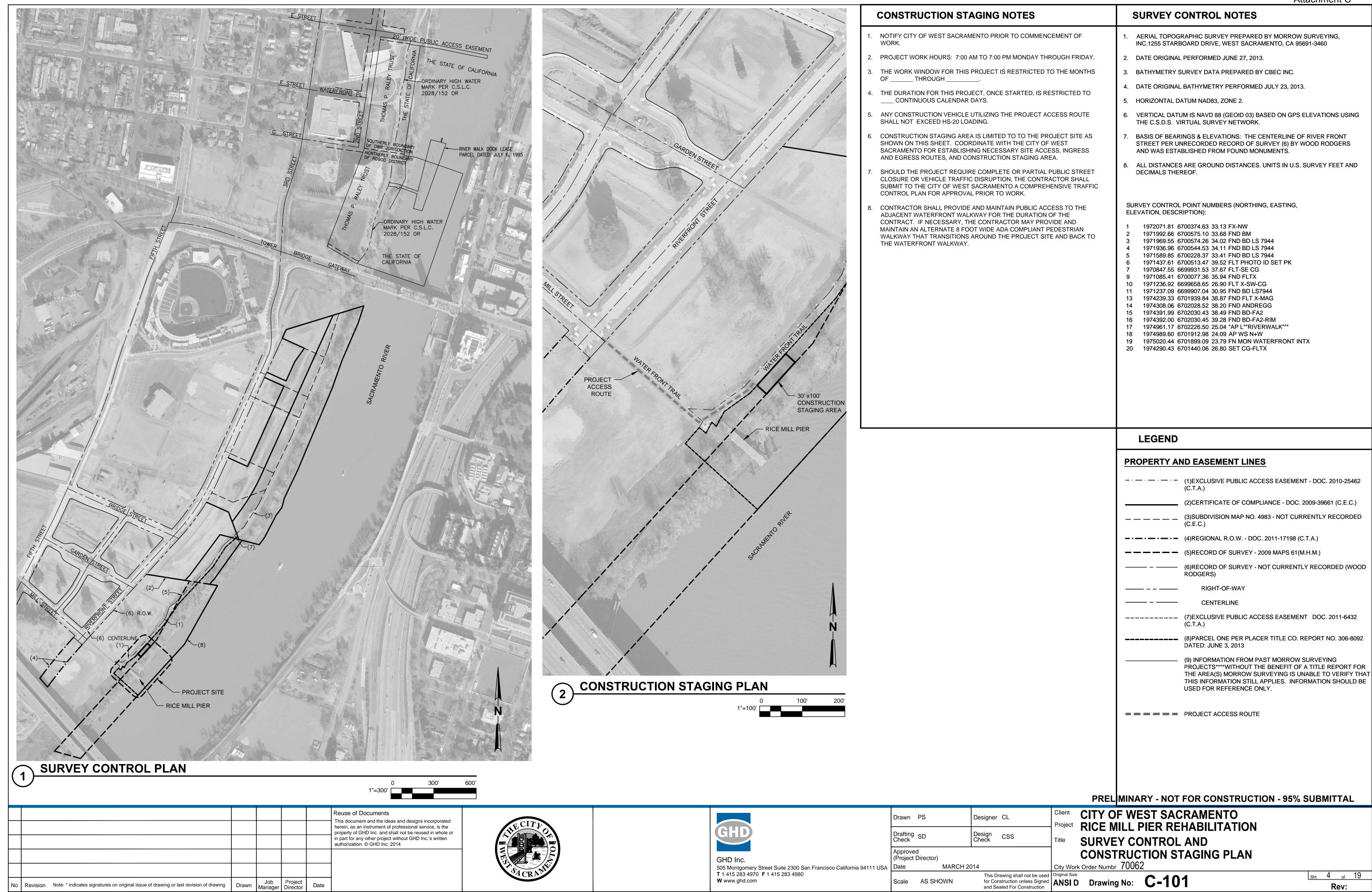
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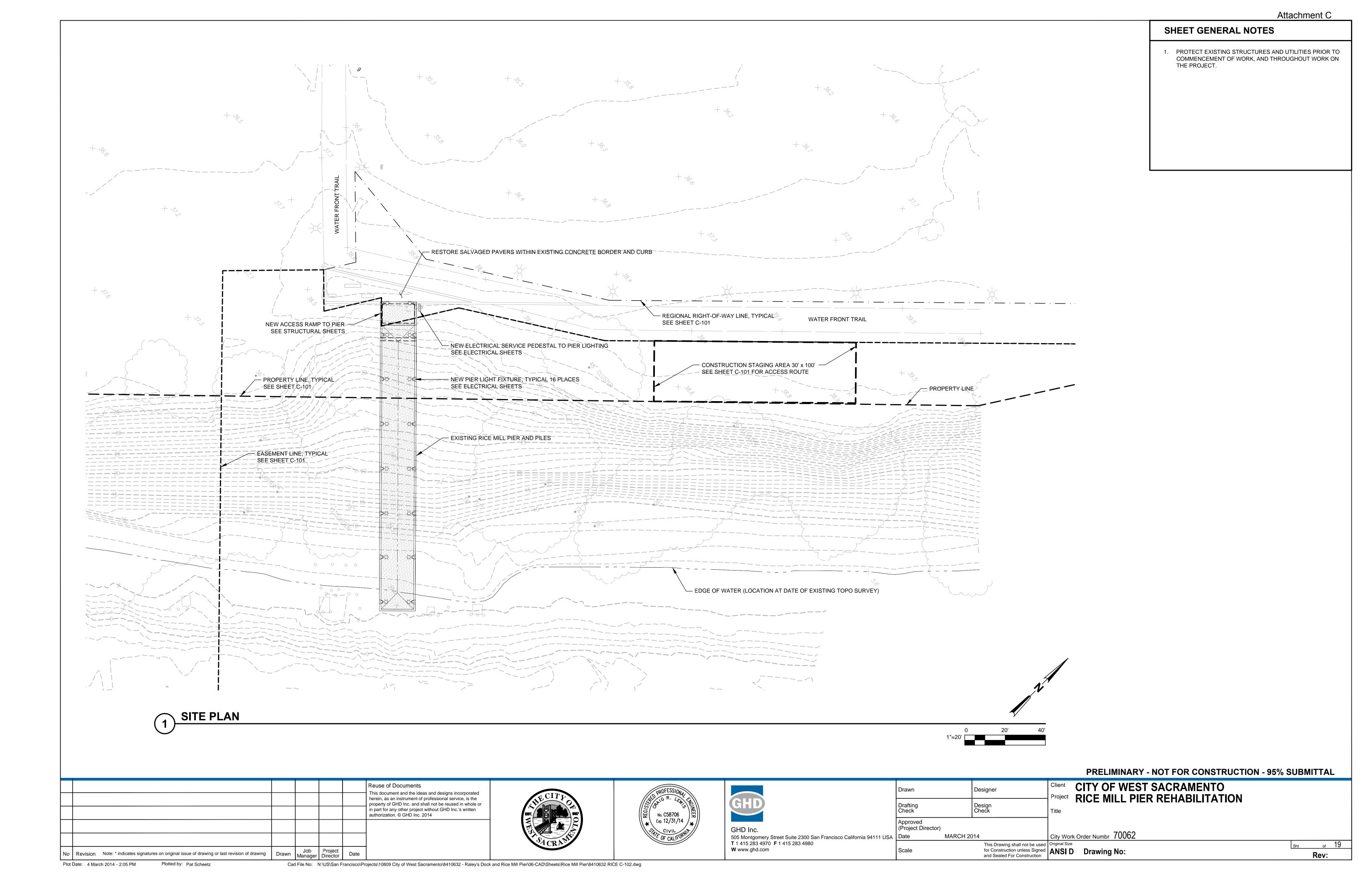
Drawing No:

D-102 Sht - of 19 Rev:

APPROXIMATE ─\



Plot Date: 4 March 2014 - 2:12 PM



CMU IN PLAN

**CMU IN SECTION** 

CONCRETE IN SECTION

EARTH IN SECTION

GROUT IN SECTION

STEEL IN SECTION

**FOOTING** 

**VOID FORM IN SECTION** 

SLAB CONSTRUCTION JOINT

SLAB CONTROL JOINT

		<b>5</b> 18	RUCTURAL ABBR	EVIATIONS
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	GSN GYP	GENERAL STRUCTURAL NOTES GYPSUM	TB THK
AB ABC	ANCHOR BOLT AGGREGATE BASE COURSE	HAS	HEADED ANCHOR STUDS	TOC TOS
ABV	ABOVE	HD	HAND	TYP
AC ACI	AGGREGATE COURSE AMERICAN CONCRETE INSTITUTE	HEF HIF	HORIZONTAL EACH FACE HORIZONTAL INSIDE FACE	UBC
ADD'L	ADDITIONAL	HK	HOOK HOLLOW METAL	UHMW
AISC AISI	AMERICAN INSTITUTE OF STEEL CONSTRUCTION AMERICAN IRON AND STEEL INSTITUTE	HM HOF	HOLLOW METAL HORIZONTAL OUTSIDE FACE	UNO
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	HORIZ	HORIZONTAL	UON
ALT ALUM	ALTERNATE ALUMINUM	HP HSS	HIGH POINT, H-PILE TUBE STEEL	UPR UT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	HT	HEIGHT	\/
APA ARCH	AMERICAN PLYWOOD ASSOCIATION ARCHITECT/ARCHITECTURAL	IBC	INTERNATIONAL BUILDING CODE	VEF VERT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	ID IE	INSIDE DIAMETER	VIF
AWS	AMERICAN WELDING SOCIETY	IE INFO	THAT IS INFORMATION	VOF
В	BOTTOM	INT INTERMED	INTERIOR INTERMEDIATE	W/ W OR WF
B/ BB	BOTTOM OF BOTTOM BARS	INTERMED	INTERMEDIATE	WGT
BLDG	BUILDING BLOCKING	INV	INVERT	W/O WP
BLKG BM	BEAM	JST	JOIST	WS
BN	BOUNDARY NAIL BOND	JT	JOINT	WT
BO BRG	BEARING	L	ANGLE	&
BS DTM/N	BOTH SIDES	LBS	POUNDS	@
BTWN	BETWEEN	LG LL	LONG LIVE LOAD	Ø
0	CHANNEL	LLH	LONG LEG HORIZONTAL	
C/C CANT	CENTER TO CENTER CANTILEVER	LLV LOC	LONG LEG VERTICAL LOCATION	#
CAP	CAPACITY	LONGIT/LONGL	LONGITUDINAL	±
CBC CF	CALIFORNIA BUILDING CODE CUBIC FEET	LP LT	LOW POINT LEFT	
CHKD	CHECKED	LWR	LOWER	
CI CJ	CONTRACTOR INSTALLED CONTRACTION/CONTROL JOINT	MACH	MACHINE	
CL/ଦୂ	CENTERLINE	MAINT	MAINTENANCE	
CLR CLG	CLEAR CEILING	MAS MAX	MASONRY MAXIMUM	
CMU	CONCRETE MASONRY UNIT	MB	MACHINE BOLT	
COL CONC	COLUMN CONCRETE	MC MCJT	CHANNEL MASONRY CONTROL JOINT	
CONN	CONNECTION	MECH	MECHANICAL	
CONSTR CONT	CONSTRUCTION CONTINUOUS	MFR MIN	MANUFACTURER MINIMUM	
COORD	COORDINATE	MISC	MISCELLANEOUS	
CRSI CTR/CTR'D	CONCRETE REINFORCING STEEL INSTITUTE CENTER/CENTERED	MHHW MLLW	MEAN HIGHER HIGH WATER MEAN LOWER LOW WATER	
OHOHED		MNTG	MOUNTING	
d DBL	PENNY (NAIL SIZE) DOUBLE	MO MOD	MASONRY OPENING MODIFIED	
DEG	DEGREES	MTL	METAL	
DET DF	DETAIL DOUGLAS FIR	(N)	NEW	
DIA	DIAMETER	NIC	NOT IN CONTRACT	
DIAG DIM	DIAGONAL DIMENSION	NO. NOM	NUMBER NOMINAL	
DISCONT	DISCONTINUE	NS	NEAR SIDE	
DL DN	DEAD LOAD DOWN	NTS	NOT TO SCALE	
DO	DITTO	ОС	ON CENTER	
DP DWG	DEEP DRAWING	OD OF	OUTSIDE DIAMETER OUTSIDE FACE	
DWL	DOWEL	OPG	OPENING	
<b>(</b> E)	EVICTING	OPP	OPPOSITE	
(E) EA	EXISTING EACH	PEB PEMB	PRE ENGINEERED BUILDING PRE ENGINEERED METAL BLDG	
EF	EACH FACE	PL/P	PLATE	
EG EL/ELEV	FOR EXAMPLE ELEVATION	PLCS PLYWD	PLACES PLYWOOD	GOVER
EMBED	EMBEDMENT	PNL	PANEL	<b>3372</b>
EN ENGR	EDGE NAIL ENGINEER	PREFAB PT	PREFABRICATED POINT, PRESSURE TREATED	ALL MODIC CLIALL
EQ	EQUAL	PVMT	PAVEMENT	ALL WORK SHALL WITH ALL APPLIC
EQUIP ETC	EQUIPMENT ET CETERA	QTY	QUANTITY	INCLUDING, BUT
EW	EACH WAY			2013 CALIFORNIA 2012 INTERNATIO
EWEF (E)/EXIST	EACH WAY EACH FACE EXISTING	R/RAD REF	RADIUS REFERENCE	
ÈΧ̈́P	EXPANSION	REINF	REINFORCING	
EXT	EXTERIOR	REQD RF	REQUIRED ROOF	
FF	FINISHED FLOOR	RM	ROOM	OFNED
FG FH	FINISHED GRADE FULL HEIGHT	SCHED/SCH	SCHEDULE	GENER
FIN	FINISH	SEC	SECTION	
FL FLG	FLOOR FLANGE	SF SHT	SQUARE FEET SHEET	1. ABBREVIATI
FN	FACE NAIL	SIM	SIMILAR	TO THE STR OTHER DISC
FND FO	FOUNDATION FACE OF	SP SPCG	SPACE/SPACES SPACING	SYMBOLS NO
FOM	FACE OF MASONRY	SPEC	SPECIFICATIONS	2. THIS IS A ST
FOW FRMG	FACE OF WALL FRAMING	SST STD	STAINLESS STEEL STANDARD	LEGEND SHI
FS	FAR SIDE	STIFF	STIFFENER	ABBREVIATI APPEAR ON
FTG	FOOTING	STL STRUCT	STEEL STRUCTURAL	UTILIZED ON
ЭΑ	GAUGE	SYM	SYMMETRICAL	3. DO NOT SCA
GALV	GALVANIZED			J. DO NOT 30A
GF GR	GOVERNMENT FURNISHED GRADE	T T/	TOP TOP OF	
GRT	GROUT	T&B	TOP AND BOTTOM	
		, , ,		
		<u>                                     </u>	Reuse of Documents	Josiano in accordina
			This document and the ideas and of herein, as an instrument of profess	ional service, is the
Ī		i 1 1	property of GHD Inc. and shall not	to a manage of the code of a man

GENERAL STRUCTURAL N	NOTES
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CONTRACTOR SHALL BE RESPONSIBLE TO CONSULT WITH OWNER'S AUTHORIZED REPRESENTATIVE, SITE SUPERINTENDENT, APPROPRIATE AGENCIES AND CONSTRUCTION DOCUMENTATION FOR THE LOCATIONS OF ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF UTILITIES.

- CONTRACTOR IS RESPONSIBLE TO CONFIRM ALL EXISTING CONDITIONS OF THE SITE AND SHOULD CONFIRM SURVEY INFORMATION BEFORE COMMENCING WORK.
- CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS, AREA DISCREPANCIES AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH ALL CONSTRUCTION OPERATIONS.
- 5. WRITTEN SPECIFICATIONS ARE PART OF THE CONSTRUCTION DOCUMENTATION PACKAGE. CONTRACTOR IS RESPONSIBLE FOR BEING FAMILIAR WITH WRITTEN SPECIFICATIONS AND THE DRAWING PACKAGE. CONTRACTOR IS RESPONSIBLE FOR BRINGING TO OWNER'S AUTHORIZED REPRESENTATIVE'S ATTENTION ANY DISCREPANCIES OR CONFLICTS THAT MIGHT EXIST IN THE DOCUMENTS FOR CLARIFICATION BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY COSTS, CONSTRUCTION DELAYS, OR REVISION DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.
- CONTRACTOR SHALL REMOVE FROM THE SITE ALL DEBRIS AND UNSUITABLE MATERIAL GENERATED BY THE CONTRACTOR'S OPERATIONS. CONSTRUCTION SITE SHALL BE MAINTAINED AT ALL TIMES SO THAT NO OBSTRUCTION, CONSTRUCTION EQUIPMENT OR CONSTRUCTION PROCESS CAUSES POTENTIAL HARM OR DANGER TO PUBLIC OR CONSTRUCTION SITE WORKERS. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR NEGLIGENCE.
- CONTRACTOR IS RESPONSIBLE TO CONFIRM LOCATIONS FOR ALL EXISTING UTILITIES AND GRADES BEFORE COMMENCING WORK.

## 8. DESIGN CRITERIA:

ALL STRUCTURES SHALL BE DESIGNED IN ACCORDANCE WITH THE FOLLOWING DESIGN CODES AND STANDARDS:

AMERICAN SOCIETY OF CIVIL ENGINEERS, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES," ASCE/SEI 7-10, 2010.

STRUCTURES SHALL BE DESIGNED ACCORDING TO THE FOLLOWING DESIGN CRITERIA:

#### LIVE LOADS

1000 LB CONCENTRATED LOAD ON ANY 1 SF AREA

100 PSF UNIFORM LIVE LOAD

#### WIND LOADS

EXPOSURE D

110 MPH MAXIMUM WIND VELOCITY

SEISMIC DESIGN DATA

LATITUDE = 38.57°, LONGITUDE = -121.51°

SITE CLASS: D (POTENTIALLY LIQUEFIABLE MATERIALS)

SEISMIC IMPORTANCE FACTOR: 1.00

MAPPED SPECTRAL RESPONSE (MCE):

 $S_S = 0.676G$ 

 $S_1 = 0.294G$ 

# 9. GENERAL

UNLESS NOTED OTHERWISE, REFER TO DRAWINGS OTHER THAN STRUCTURAL FOR FINISHES, SLOPES, DEPRESSIONS, OPENINGS, CURBS, STAIRS, RAMPS, TRENCHES, EQUIPMENT AND LOCATIONS AND EXTENT OF SUCH CONDITIONS.

# 10. CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF SPECIFICATIONS DIVISION 03 - CONCRETE

ALL CONCRETE SHALL BE NORMAL WEIGHT, WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF:

- PRECAST CONCRETE: 5000 PSI
- ALL OTHER STRUCTURAL CONCRETE: 4000 PSI

CONCRETE REINFORCING COVER SHALL BE AS FOLLOWS:

- PILE CAPS: 3 INCHES
- FOOTINGS AND SLABS CAST AGAINST OR EXPOSED TO EARTH: 3 INCHES
- \* CONCRETE EXPOSED TO WEATHER: 2 INCHES

ALL CONCRETE DIMENSIONS SHOWN ARE MINIMUM DIMENSIONS. CONTRACTOR SHALL REVIEW FORMING, REINFORCING DETAILS AND ANY EMBEDDED ITEMS AND DETERMINE THE PLACEMENT REQUIREMENTS AND CLEARANCES PRIOR TO FABRICATION OF ANY REINFORCING.

# 11. REINFORCING STEEL:

ALL CONCRETE REINFORCING SHALL BE:

ASTM A 615, GRADE 60

ASTM A 706, GRADE 60

NO WELDING OF ANY REINFORCING SHALL BE PERMITTED WITHOUT ENGINEER'S WRITTEN APPROVAL. WELDED REINFORCEMENT SHALL CONFORM TO ASTM A706, GRADE 60.

# 12. STRUCTURAL STEEL

HOT-DIP GALVANIZE ALL STEEL ELEMENTS AFTER FABRICATION AND WELDING UNLESS OTHERWISE NOTED.

ALL EXPOSED NON-GALVANIZED STEEL SURFACES AND FASTENERS SHALL BE COATED PER SPECIFICATIONS UNLESS OTHERWISE

ALL CONNECTION BOLTS SHALL CONFORM TO A325 UON.

ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36, UON.

**ANNOTATION** 

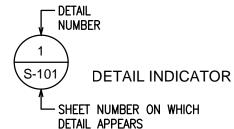
1 KEYNOTE

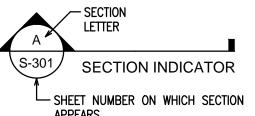
**DEMOLITION NOTE** 

STRUCTURAL LEGEND

44 44 444

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Manager Director



TOP OF BAR

TOP OF STEEL

TOP OF CONCRETE

UNIFORM BUILDING CODE

ULTRA HIGH MOLECULAR

ULTRASONIC TESTING

VERTICAL EACH FACE

VERTICAL INSIDE FACE

WIDE FLANGE (BEAM)

VERTICAL OUTSIDE FACE

**UNLESS NOTED OTHERWISE** 

UNLESS OTHERWISE NOTED

THICK

TYPICAL

WEIGHT

UPPER

VERTICAL

WEIGHT

AND

DEGREE

**INCHES** NUMBER

PLUS OR MINUS

DIAMETER FEET

ΑT

**GOVERNING CODES** 

ALL WORK SHALL BE PERFORMED IN CONFORMACE

2013 CALIFORNIA BUILDING CODE (CBC 2013) 2012 INTERNATIONAL BUILDING CODE (IBC 2012)

INCLUDING, BUT NOT LIMITED TO:

WITH ALL APPLICABLE LOCAL CODES & ORDINANCES

**GENERAL SHEET NOTES** 

ABBREVIATIONS ON THIS SHEET APPLY ONLY

TO THE STRUCTURAL DRAWINGS, REFER TO

ABBREVIATIONS AND LEGEND SYMBOLS MAY

APPEAR ON THIS SHEET AND MAY NOT BE

OTHER DISCIPLINES FOR APPLICABLE

THIS IS A STANDARD ABBREVIATION AND LEGEND SHEET, THEREFORE, SOME

SYMBOLS NOT PROVIDED HERE.

UTILIZED ON THIS PROJECT.

DO NOT SCALE DRAWINGS.

WITHOUT

**WORK POINT** 

WATERSTOP





GHD Inc. 505 Montgomery Street Suite 2300 San Francisco California 94111 USA Date T 1 415 283 4970 F 1 415 283 4980 W www.ghd.com

Drawn PS Designer CL Drafting SD Check CSS Approved (Project Director) MARCH 2014

Scale NONE

CITY OF WEST SACRAMENTO RICE MILL PIER REHABILITATION LEGEND AND ABBREVIATIONS, GENERAL NOTES

City Work Order Numbr 70062This Drawing shall not be used Original Size for Construction unless Signed and Sealed For Construction ANSI D Drawing No: S-001

Sht - of 19 Rev:

# STATEMENT OF SPECIAL INSPECTIONS

## STATEMENT OF SPECIAL INSPECTIONS

THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION AND STRUCTURAL TESTING REQUIREMENTS OF THE BUILDING CODE SECTIONS 1704 AND 1705.

THIS STATEMENT OF SPECIAL INSPECTIONS ENCOMPASS THE FOLLOWING DISCIPLINES:

> ☑ STRUCTURAL SPECIAL INSPECTIONS PER 1704 AND 1705 ☑ STRUCTURAL SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE ☐ STRUCTURAL SPECIAL INSPECTIONS FOR WIND RESISTANCE

THE SCHEDULE OF SPECIAL INSPECTIONS SUMMARIZES THE SPECIAL INSPECTIONS AND TEST REQUIRED. SPECIAL INSPECTORS WILL REFER TO THE APPROVED PLANS AND SPECIFICATIONS FOR DETAILED SPECIAL INSPECTION REQUIREMENTS. ANY ADDITIONAL TESTS AND INSPECTIONS REQUIRED BY THE APPROVED PLANS AND SPECIFICATIONS WILL ALSO BE PERFORMED.

THE SPECIAL INSPECTIONS IDENTIFIED ARE IN ADDITION TO THOSE REQUIRED BY OTHER SECTIONS OF THE BUILDING CODE. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY THE BUILDING OFFICIAL/CONTRACTING OFFICER HAVING JURISDICTION OR CONTRACTING OFFICER.

THE SPECIAL INSPECTION COORDINATOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL/CONTRACTING OFFICER AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES.

INTERIM REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL OR CONTRACTING OFFICER AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH SECTION 1704.1.2.

A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY PER SECTION 1704.1.2. THE FINAL REPORT WILL DOCUMENT THE REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF DISCREPANCIES NOTED IN INSPECTIONS.

JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

THE CONTRACTOR IS REQUIRED TO COORDINATE ALL INSPECTIONS. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND THE SPECIAL INSPECTOR A MINIMUM OF 24 HOURS PRIOR TO ANY SPECIAL INSPECTIONS THAT ARE REQUIRED. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND THE SPECIAL INSPECTOR A MINIMUM OF 24 HOURS PRIOR TO ANY CONCRETE TO BE POURED.

THE INSPECTORS AND TESTING AGENCIES SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED PER SECTION 1704.1. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL/CONTRACTING OFFICER, PRIOR TO COMMENCING WORK. IF APPROPRIATE AGENTS ARE NOTED AS "TO BE DETERMINED (TBD), THE OWNER IS RESPONSIBLE TO COORDINATE THE ASSEMBLY OF A SPECIAL INSPECTION TEAM. ALL SPECIAL INSPECTORS AND TESTING LABORATORIES SHALL BE SUBMITTED TO GHD INC. AND THE BUILDING OFFICIAL / CONTRACTING OFFICE FOR REVIEW.

SPECIALLY INSPECTED WORK THAT IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL/CONTRACTING OFFICER IS SUBJECT TO REMOVAL OR EXPOSURE.

CONTINUOUS INSPECTION IS ALWAYS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS OTHERWISE SPECIFIED. WHEN WORK IN MORE THAN ONE CATEGORY OF WORK REQUIRING SPECIAL INSPECTION IS TO BE PERFORMED SIMULTANEOUSLY, OR THE GEOGRAPHIC LOCATION OF THE WORK IS SUCH THAT IT CANNOT BE CONTINUOUSLY OBSERVED, IT IS THE AGENT'S RESPONSIBILITY TO EMPLOY A SUFFICIENT NUMBER OF INSPECTORS TO ASSURE THAT ALL THE WORK IS INSPECTED IN ACCORDANCE WITH THE PROVISIONS OF THE BUILDING CODE.

## CONTRACTOR STATEMENT OF RESPONSIBILITY

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OR FABRICATION OF A SYSTEM OR COMPONENT DESIGNATED ABOVE AS PART OF THE MAIN WIND FORCE OR MAIN SEISMIC FORCE RESISTING SYSTEMS ABOVE MUST SUBMIT A STATEMENT OF RESPONSIBILITY PER 1706.

## QUALIFICATIONS OF INSPECTORS AND TESTING TECHNICIANS

THE QUALIFICATIONS OF ALL PERSONNEL PERFORMING SPECIAL INSPECTION AND TESTING ACTIVITIES ARE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL. THE CREDENTIALS OF ALL INSPECTORS AND TESTING TECHNICIANS SHALL BE PROVIDED IF REQUESTED.

**KEY FOR MINIMUM QUALIFICATIONS OF INSPECTION AGENTS:** 

WHEN THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE DEEMS IT APPROPRIATE THAT THE INDIVIDUAL PERFORMING A STIPULATED TEST OR INSPECTION HAVE A SPECIFIC CERTIFICATION OR LICENSE AS INDICATED BELOW, SUCH DESIGNATION SHALL APPEAR BELOW THE AGENCY NUMBER ON THE SCHEDULE.

PE/SE STRUCTURAL ENGINEER - A LICENSED SE OR PE SPECIALIZING IN THE **DESIGN OF BUILDING STRUCTURES** PE/GE GEOTECHNICAL ENGINEER - A LICENSED GE OR PE SPECIALIZING IN SOIL MECHANICS AND FOUNDATIONS EIT ENGINEER-IN-TRAINING - A GRADUATE ENGINEER WHO HAS PASSED

THE FUNDAMENTALS OF ENGINEERING EXAMINATION

#### **AMERICAN CONCRETE INSTITUTE (ACI) CERTIFICATION**

**ACI-CFTT** CONCRETE FIELD TESTING TECHNICIAN - GRADE 1 CONCRETE CONSTRUCTION INSPECTOR ACI-CCI ACI-LTT LABORATORY TESTING TECHNICIAN - GRADE 1&2 ACI-STT STRENGTH TESTING TECHNICIAN

## **AMERICAN WELDING SOCIETY (AWS) CERTIFICATION**

CERTIFIED WELDING INSPECTOR AWS-CWI AWS/AISC-SSI CERTIFIED STRUCTURAL STEEL INSPECTOR

## INTERNATIONAL CODE COUNCIL (ICC) CERTIFICATION

**ICC-SMSI** STRUCTURAL MASONRY SPECIAL INSPECTOR **ICC-SWSI** STRUCTURAL STEEL AND WELDING SPECIAL INSPECTOR **ICC-SFSI** SPRAY-APPLIED FIREPROOFING SPECIAL INSPECTOR **ICC-PCSI** PRESTRESSED CONCRETE SPECIAL INSPECTOR ICC-RCSI REINFORCED CONCRETE SPECIAL INSPECTOR

# SCHEDULE OF INSPECTION AND TESTING AGENCIES

THIS STATEMENT OF SPECIAL INSPECTIONS / QUALITY ASSURANCE PLAN INCLUDES THE FOLLOWING BUILDING SYSTEMS:

SOILS AND FOUNDATIONS ☐ WOOD CONSTRUCTION ☑ CAST-IN-PLACE CONCRETE ☐ MECHANICAL & ELECTRICAL SYSTEMS ☐ PRECAST CONCRETE ☐ ARCHITECTURAL SYSTEMS ☐ MASONRY LEVEL 1 ■ STRUCTURAL STEEL ☐ MASONRY LEVEL 2 ☐ COLD-FORMED STEEL FRAMING

SPECIAL INSPECTION AGENCIES	FIRM AND CONTACT INFO.
1. SPECIAL INSPECTION COORDINATOR	TBD
2. INSPECTOR	TBD
3. INSPECTOR	TBD
4. TESTING AGENCY	TBD
5. TESTING AGENCY	TBD
6. OTHER	TBD

# QUALITY ASSURANCE FOR WIND REQUIREMENTS

BASIC WIND SPEED (3 SECOND GUST) N/A

WIND EXPOSURE CATEGORY

QUALITY ASSURANCE PLAN REQUIRED (Y/N)

DESCRIPTION OF MAIN WIND-FORCE-RESISTING SYSTEM AND DESIGNATED WIND RESISTING COMPONENTS SUBJECT TO SPECIAL INSPECTIONS IN **ACCORDANCE WITH SECTION 1705.4.2:** 

THE EXTENT OF THE MAIN WIND-FORCE-RESISTING SYSTEM AND WIND RESISTING COMPONENTS IS DEFINED IN MORE DETAIL IN THE CONSTRUCTION DOCUMENTS.

## QUALITY ASSURANCE FOR SEISMIC RESISTANCE

SEISMIC DESIGN CATEGORY D

QUALITY ASSURANCE PLAN REQUIRED (NO)

SEISMIC SITE CLASS D

DESCRIPTION OF SEISMIC-FORCE-RESISTING SYSTEM AND DESIGNATED SEISMIC SYSTEMS SUBJECT TO SPECIAL INSPECTIONS AS PER SECTION 1705.3: ORDINARY STEEL CONCENTRICALLY BRACED FRAMES (B4)

THE EXTENT OF THE SEISMIC-FORCE-RESISTING SYSTEM IS DEFINED IN MORE DETAIL IN THE CONSTRUCTION DOCUMENTS.

PRELIMINARY - NOT FOR CONSTRUCTION - 95% SUBMITTAL

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	Approved (Project Director)	)		
USA	Date	MARCH 20	014	City Work
			This Drawing shall not be used	Original Size

lient CITY OF WEST SACRAMENTO roject RICE MILL PIER REHABILITATION **SPECIAL INSPECTIONS STRUCTURAL 1** 

ty Work Order Numbr 70062

for Construction unless Signed and Sealed For Construction ANSI D Drawing No: S-002

| Sht - of 19 Rev:

			Attachment C
	STATEMENT OF S	PECIAL INSPECTIONS	
SECTION 1704.2, 1704.3 - STEEL	TABLE 1704.4 - CONCRETE	TABLE 1704.8 - PILE FOUNDATIONS	
ITEM 1: TABLE 1704.3 - MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS.  SCOPE:  AGENCY # (QUALIF.): AWS/AISC-SSI, ICC-SWSI	ITEM 1: INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS AND PLACEMENT.  AGENCY # (QUALIF.): ACI-CCI, ICC-RCSI	ITEM 1: VERIFY PILE MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS.  AGENCY # (QUALIF.): PE/GE	
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	ITEM 2: INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5B.  ☐ PERIODIC ☐ CONTINUOUS  AGENCY # (QUALIF.): AWS-CWI	☐ PERIODIC ☑ CONTINUOUS  ITEM 2: DETERMINE CAPACITIES OF TEST PILES AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED. ☐ PERIODIC ☑ CONTINUOUS  ☐ PERIODIC ☑ CONTINUOUS	
ITEM 2: TABLE 1704.3 - INSPECTION OF HIGH-STRENGTH BOLTING:    AGENCY # (QUALIF.): AWS/AISC-SSI, ICC-SWSI  SCOPE:	ITEM 3: INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE.  □ PERIODIC □ CONTINUOUS	ITEM 3: OBSERVE DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH PILE.  □ PERIODIC ☑ CONTINUOUS  □ PERIODIC ☑ CONTINUOUS	
A. BEARING-TYPE CONNECTIONS.    Mathematical Periodic   Continuous	ITEM 4: VERIFYING USE OF REQUIRED DESIGN MIX.  AGENCY # (QUALIF.):  ACI-CCI, ICC-RCSI  ITEM 5: AT TIME FRESH CONCRETE IS SAMPLED TO  AGENCY # (QUALIF.):	SECTION 1707 - SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE	
ITEM 3: TABLE 1704.3 - MATERIAL VERIFICATION OF STRUCTURAL STEEL  SCOPE: A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED	FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE.  PERIODIC CONTINUOUS	ITEM 7: 1707.8 - MECHANICAL AND ELECTRICAL COMPONENTS AGENCY # (QUALIF.): PE  SCOPE:  A. INSPECT ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STAND-BY	
DOCUMENTS.  PERIODIC CONTINUOUS  B. MANUFACTURER'S MILL TEST REPORTS  PERIODIC CONTINUOUS	ITEM 6: INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.  ☐ PERIODIC ☑ CONTINUOUS  ☐ PERIODIC ☑ CONTINUOUS	POWER SYSTEMS.  PERIODIC CONTINUOUS  B. INSPECT ANCHORAGE OF NON-EMERGENCY ELECTRICAL EQUIPMENT.  PERIODIC CONTINUOUS	
ITEM 4: TABLE 1704.3 - MATERIAL VERIFICATION OF WELD FILLER MATERIALS.  SCOPE:  A. IDENTIFICATION MARKINGS TO CONFORM TO AWS DESIGNATION LISTED IN THE WPS.	ITEM 7: INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.  ☐ PERIODIC ☐ CONTINUOUS  ITEM 10: VERIFICATION OF IN-SITU CONCRETE STRENGTH,  ☐ AGENCY # (QUALIF.):  AGENCY # (QUALIF.):	C. INSPECT INSTALLATION OF PIPING SYSTEMS AND ASSOCIATED MECHANICAL UNITS CARRYING FLAMMABLE, COMBUSTIBLE, OR HIGHLY TOXIC CONTENTS.    D. INSPECT INSTALLATION OF HVAC DUCTWORK THAT CONTAINS HAZARDOUS MATERIALS.	
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.    PERIODIC   CONTINUOUS   ACENOY # (QUALIF):	PRIOR TO STRESSING OF TENDONS IN POSTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.  PERIODIC CONTINUOUS	■ PERIODIC □ CONTINUOUS  E. INSPECT INSTALLATION OF VIBRATION ISOLATION SYSTEMS WHERE REQUIRED BY SECTION 1707.8.  ■ PERIODIC □ CONTINUOUS	
ITEM 5: TABLE 1704.3 - INSPECTION OF WELDING:  AGENCY # (QUALIF.): AWS-CWI, ASNT  SCOPE:  A. STRUCTURAL STEEL	ITEM 11: INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.  AGENCY # (QUALIF.): ACI-CCI, ICC-RCSI	ITEM 8: 1707.9 - VERIFY THAT THE EQUIPMENT LABEL AND ANCHORAGE OR MOUNTING CONFORMS TO THE CERTIFICATE OF COMPLIANCE WHEN MECHANICAL AND ELECTRICAL EQUIPMENT MUST BE SEISMICALLY	
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.  □ PERIODIC ☑ CONTINUOUS	PERIODIC CONTINUOUS	QUALIFIED.  M PERIODIC  CONTINUOUS	
2) MULTI-PASS FILLET WELDS.  □ PERIODIC ☑ CONTINUOUS	TABLE 1704.7 - INSPECTION OF SOILS	SECTION 1708 - STRUCTURAL TESTING FOR SEISMIC	
3) SINGLE-PASS FILLET WELDS > 5/16".  ☐ PERIODIC ☑ CONTINUOUS  4) SINGLE-PASS FILLET WELDS <= 5/16".  ☑ PERIODIC ☐ CONTINUOUS	ITEM 1: VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIRED BEARING CAPACITY.  AGENCY # (QUALIF.): PE/GE	RESISTANCE  ITEM 2: 1708.3 - OBTAIN MILL CERTIFICATES FOR REINFORCING AGENCY # (QUALIF.): STEEL, VERIFY COMPLIANCE WITH APPROVED	
5) FLOOR AND ROOF DECK WELDS.  MEDIC CONTINUOUS  B. REINFORCING STEEL	ITEM 2: VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. AGENCY # (QUALIF.): PE/GE    PE/GE	CONSTRUCTION DOCUMENTS, AND VERIFY STEEL SUPPLIED CORRESPONDS TO CERTIFICATE.  □ PERIODIC ☑ CONTINUOUS	
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706.    PERIODIC   CONTINUOUS  2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS, AND SHEAR REINFORCEMENT.    PERIODIC   CONTINUOUS  3) SHEAR REINFORCEMENT	ITEM 3: PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS. PERFORM SIEVE TESTS (ASTM D422 & D1140); ATTERBERG LIMIT TEST (ASTM D4318) AND MODIFIED PROCTOR TESTS (ASTM D1557) OF EACH SOURCE OF FILL MATERIAL.  PERIODIC CONTINUOUS		
PERIODIC CONTINUOUS  4) OTHER REINFORCING STEEL PERIODIC CONTINUOUS  ITEM 6: TABLE 1704.3 - INSPECTION OF STEEL FRAME JOINT AGENCY # (QUALIF.): PE/SE	ITEM 4: VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL. TEST DENSITY OF EACH LIFT OF FILL BY NUCLEAR METHODS (ASTM D6938) OR SAND CONE (ASTM D1556). VERIFY EXTENT AND SLOPE OF FILL		
DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:  SCOPE: INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:	PLACEMENT. VERIFY COMPACTION OF FILL AND BACKFILL MATERIAL TO 95 PERCENT OF ASTM D 1557. TEST EACH LIFT AT RANDOMLY SELECTED LOCATIONS EVERY 1000 SQUARE FEET OF FILL OR 50 LINEAR FOOT OF WALL OR CONTINUOUS FOOTING, WHICHEVER IS GREATER. PERFORM A MINIMUM OF ONE TEST PER ISOLATED FOOTING. PERFORM 3 TESTS MINIMUM PER LIFT.		
A) DETAILS SUCH AS BRACING AND STIFFENING.  PERIODIC CONTINUOUS  B) MEMBER LOCATIONS.  PERIODIC CONTINUOUS  C) APPLICATION OF JOINT DETAILS AT EACH CONNECTION.  PERIODIC CONTINUOUS	☐ PERIODIC ☐ CONTINUOUS  ITEM 5: PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY. ☐ PERIODIC ☐ CONTINUOUS  AGENCY # (QUALIF.): PE/GE		
ITEM 7: SECTION 1704.3 WELDED STUDS WHEN USED FOR STRUCTURAL DIAPHRAGMS:  ☑ PERIODIC ☐ CONTINUOUS  AGENCY # (QUALIF.): AWS-CWI, ASNT	NOTES: SEE GENERAL STRUCTURAL NOTES AND/OR BID DOCUMENTS FOR REFERENCE GEOTECHNICAL REPORT.		
ITEM 9: SECTION 1704.3 - WELDING OF STAIRS AND RAILING SYSTEMS:  ☑ PERIODIC ☐ CONTINUOUS  AGENCY # (QUALIF.): AWS-CWI, ASNT			
ITEM 10: SECTION 1704.2.1 - INSPECT FABRICATOR'S FABRICATION AND QUALITY CONTROL PROCEDURES.  ✓ PERIODIC ☐ CONTINUOUS			PRELIMINARY - NOT FOR CONSTRUCTION - 95% SUBMITTAL
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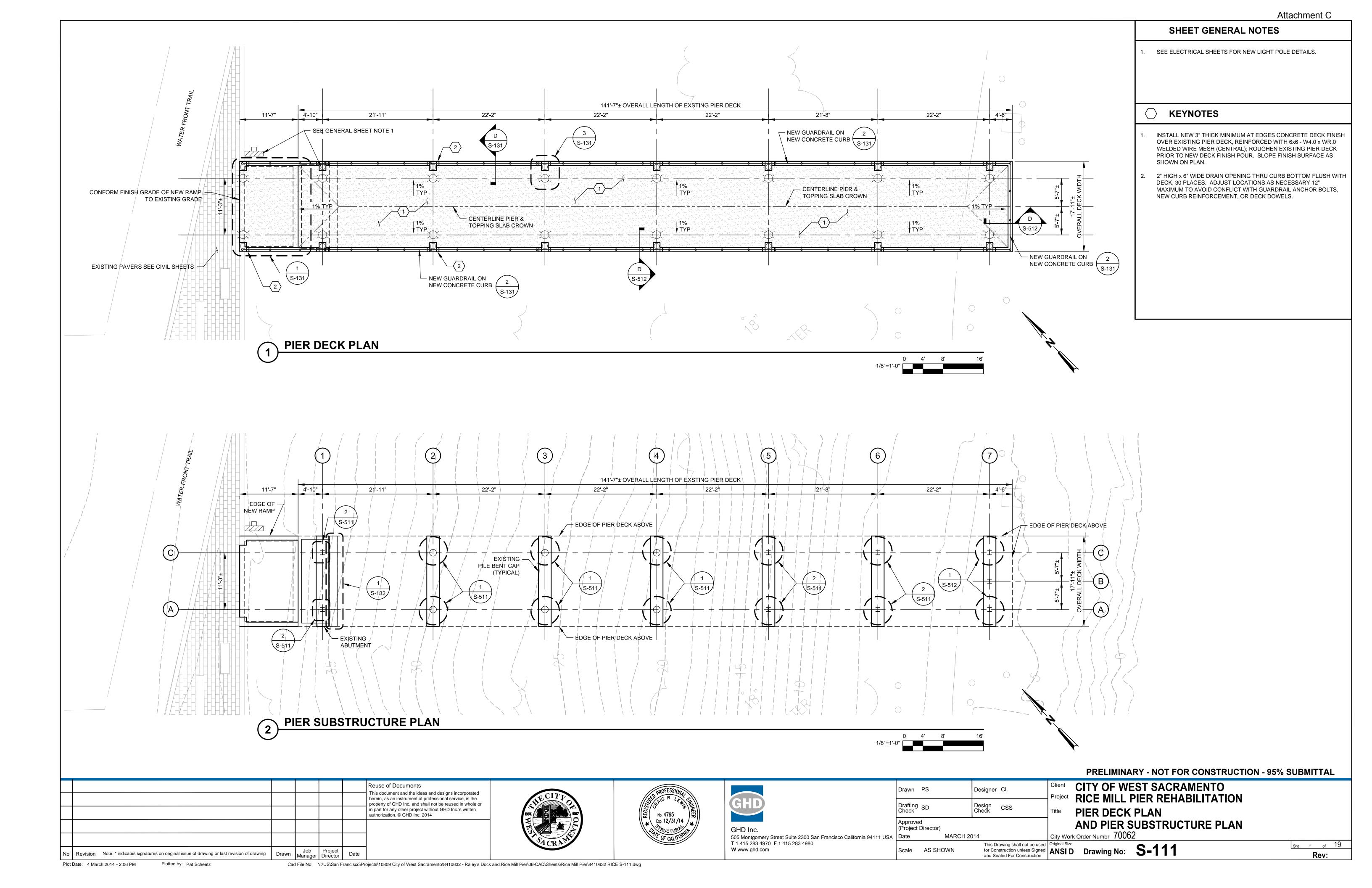
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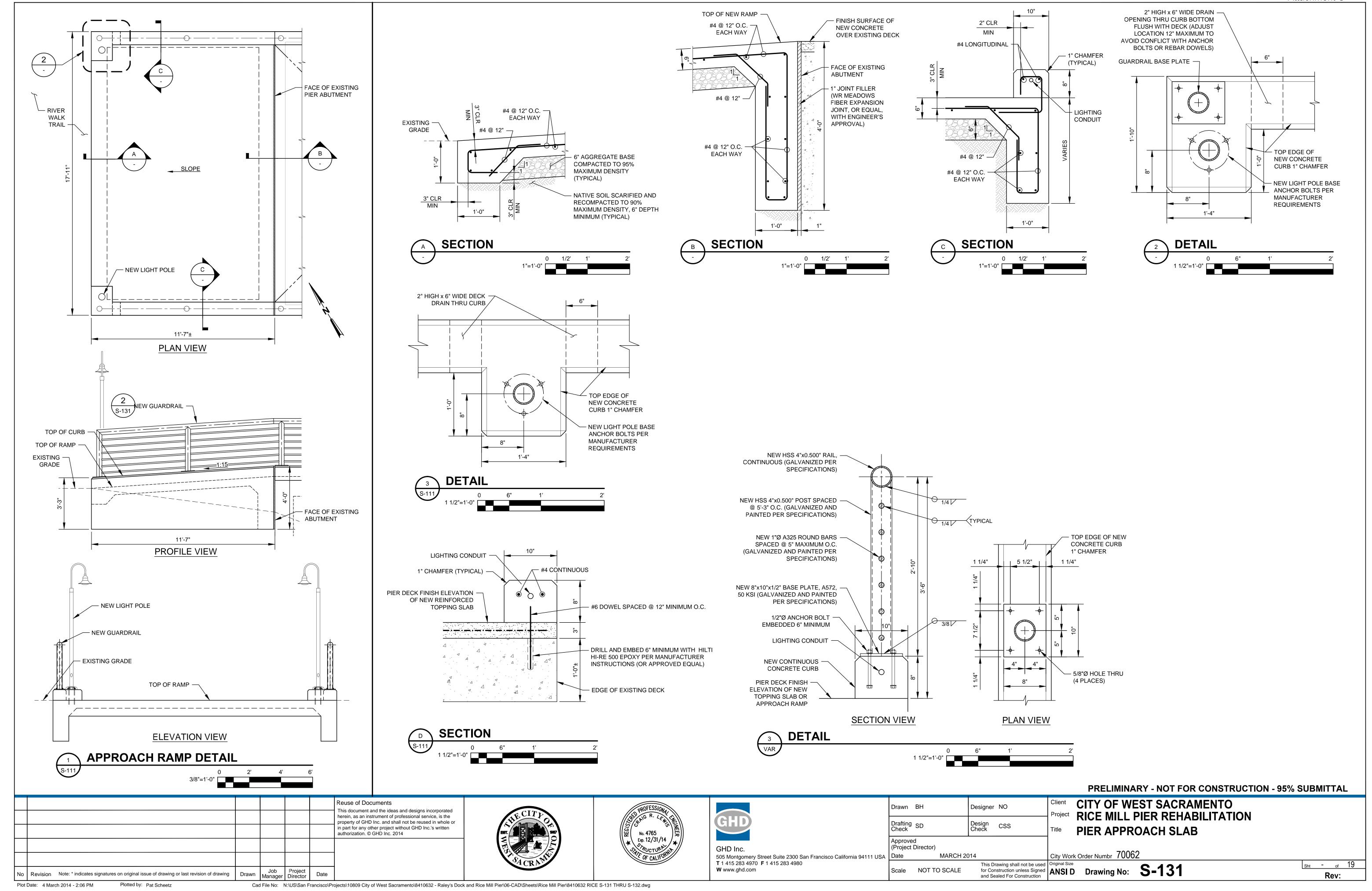
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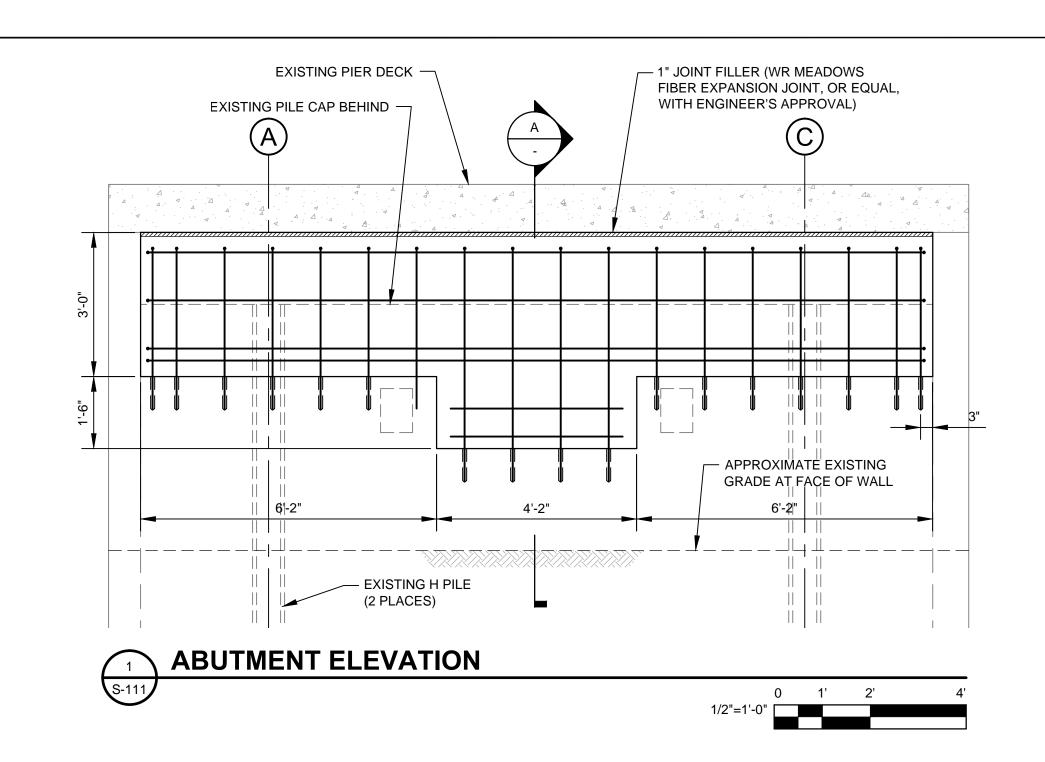
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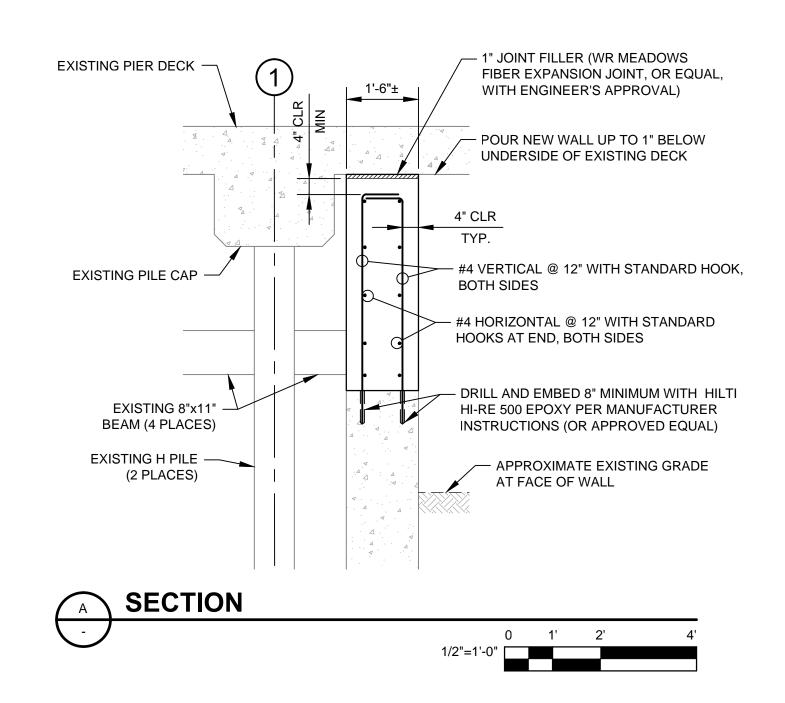
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Client CITY OF WEST SACRAMENTO
Project RICE MILL PIER REHABILITATION ABUTMENT SECTIONS

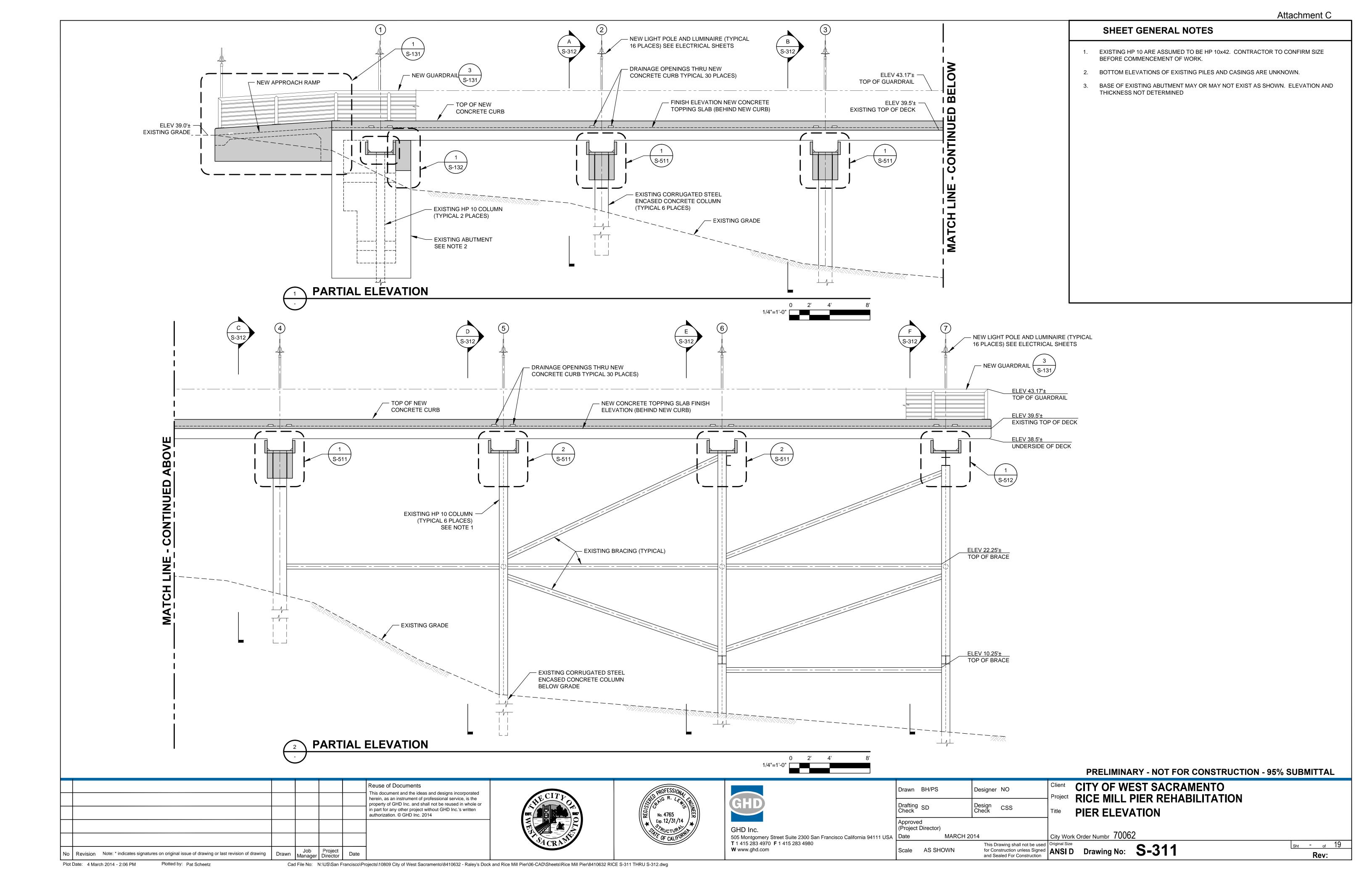
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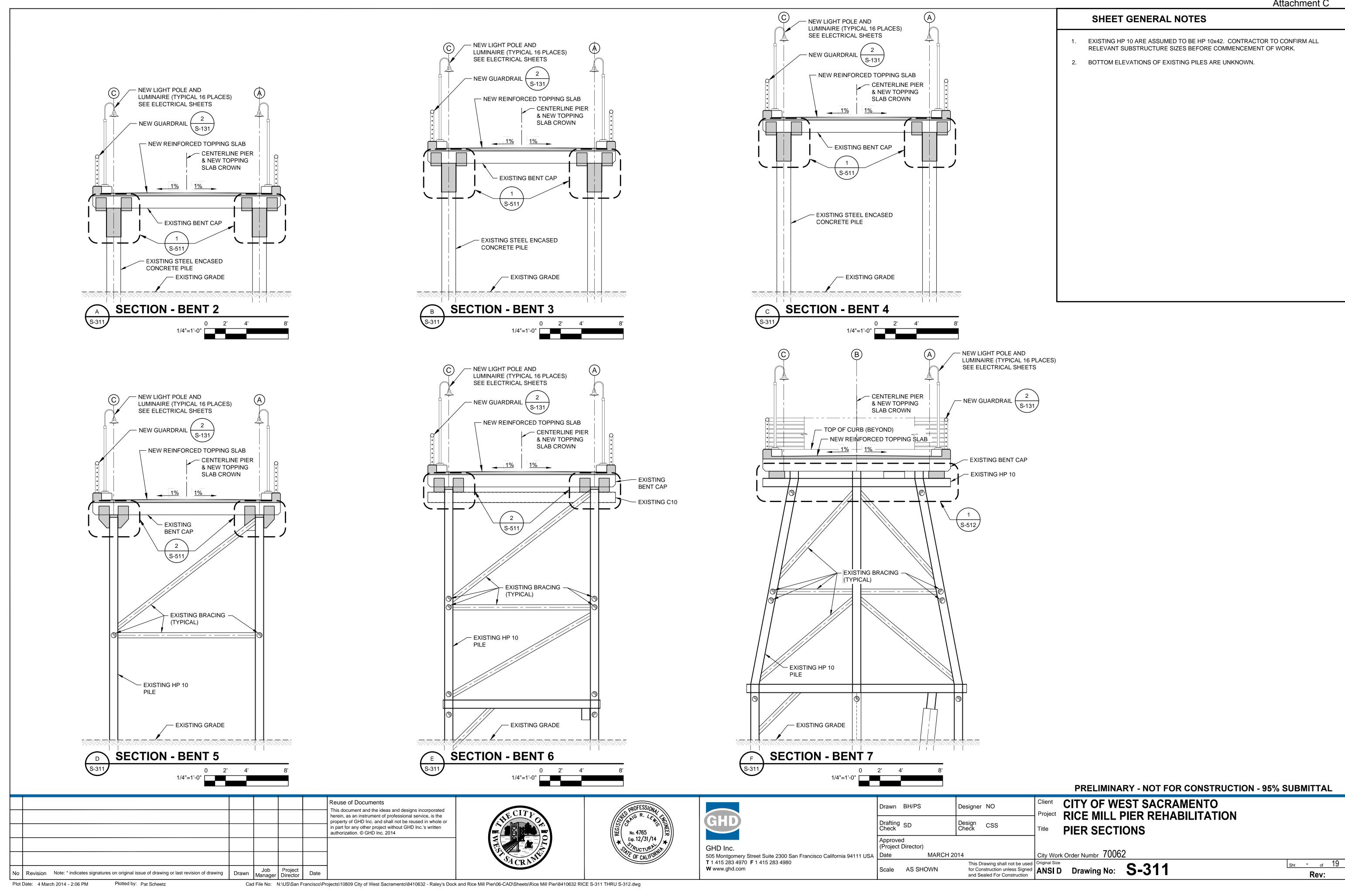
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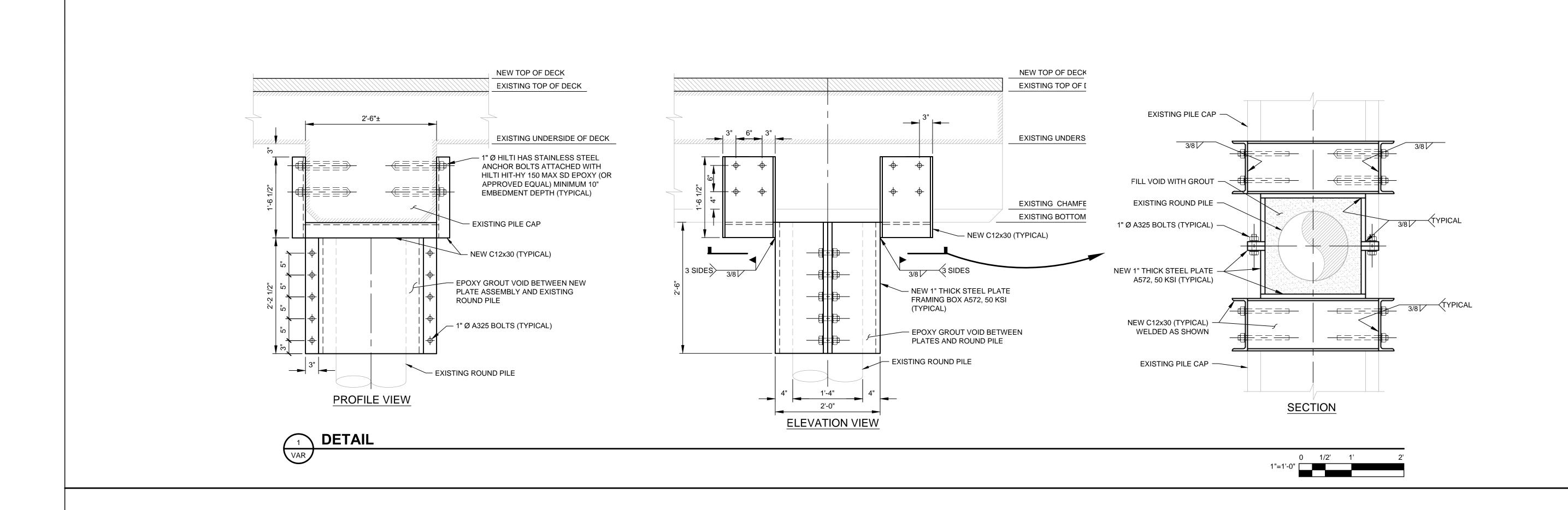
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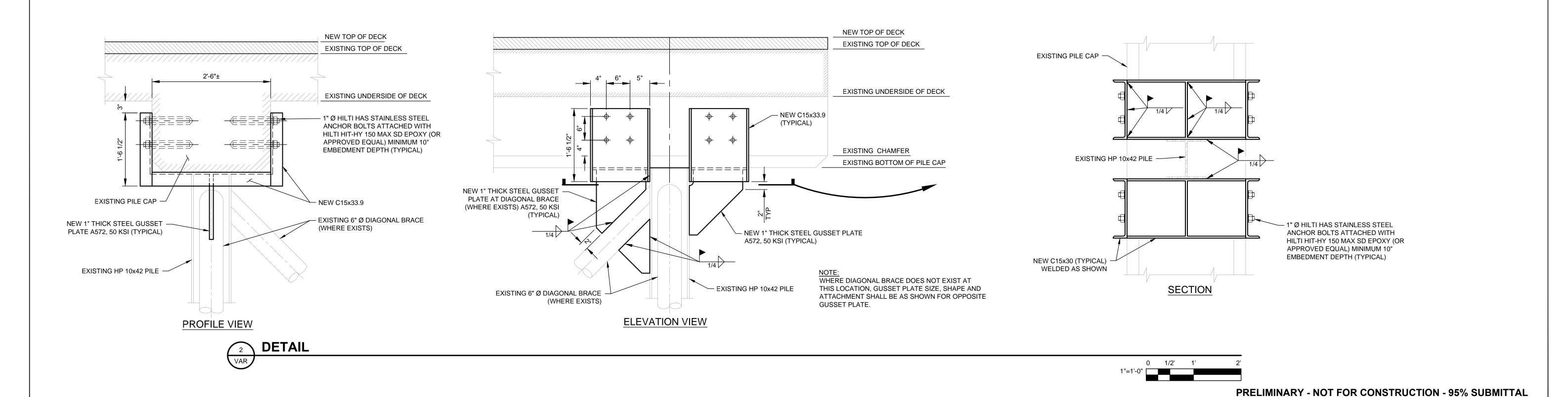
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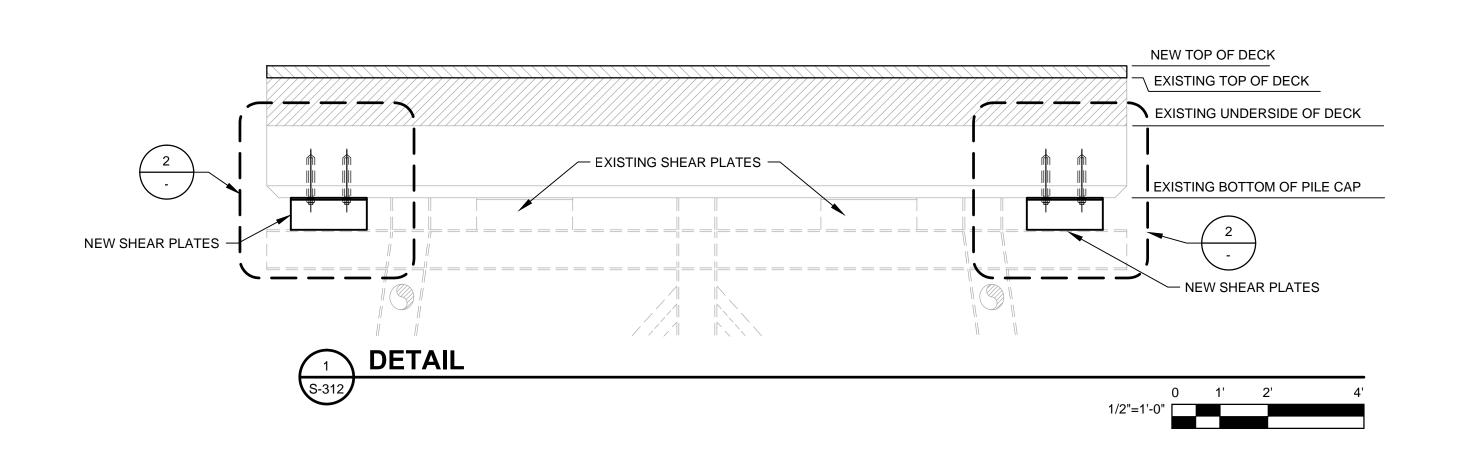


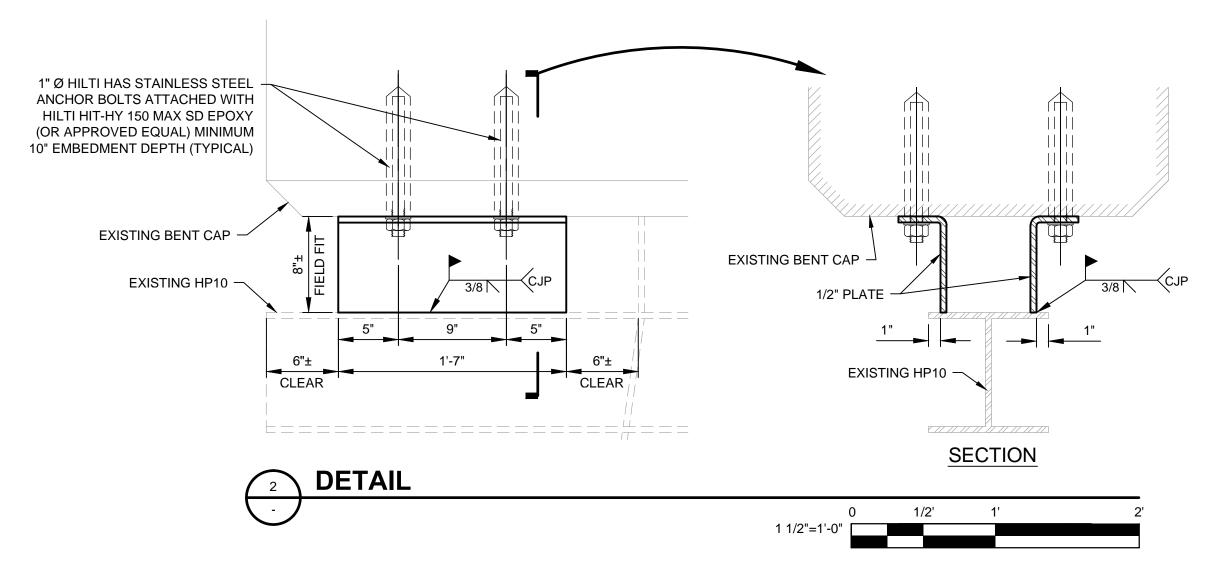
Client CITY OF WEST SACRAMENTO Reuse of Documents Drawn DG Designer NO This document and the ideas and designs incorporated RICE MILL PIER REHABILITATION herein, as an instrument of professional service, is the property of GHD Inc. and shall not be reused in whole or Drafting PS Check Design Check CSS in part for any other project without GHD Inc.'s written authorization. © GHD Inc. 2014 PILE CONNECTION No. 4765 Exp. 12/31/14 Approved (Project Director) **DETAILS** GHD Inc. City Work Order Numbr 70062 505 Montgomery Street Suite 2300 San Francisco California 94111 USA Date T 1 415 283 4970 F 1 415 283 4980 MARCH 2014 This Drawing shall not be used for Construction unless Signed and Sealed For Construction

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Client CITY OF WEST SACRAMENTO
Project RICE MILL PIER REHABILITATION STRUCTURAL DETAILS

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#### **ELECTRICAL SYMBOLS LEGEND ELECTRICAL ABBREVIATIONS ELECTRICAL SYMBOLS** (D) DEMOLITION MCB MAIN CIRCUIT BREAKER **EXISTING** MCC MOTOR CONTROL CENTER (E) MCP MOTOR CIRCUIT PROTECTOR **FUTURE** (F) COMBINATION METER/MAIN SERVICE PANEL MFR MANUFACTURER NEW METAL HALIDE CONDUIT INSTALLED ABOVE GRADE **AMPERES** MAIN LUGS ONLY ALTERNATING CURRENT MEDIUM VOLTAGE CONDUIT INSTALLED UNDERGROUND OR UNDER SLAB AMP FRAME ABOVE FINISHED FLOOR NOT IN CONTRACT **EXISTING CONDUIT** ABOVE FINISHED GRADE NIGHT LIGHT NOT TO SCALE AIR HANDLING UNIT CONDUIT STUB-UP OR STUB-OUT AMPS INTERRUPTING CAPACITY OC ON CENTER ANNUNCIATOR FLEXIBLE CONDUIT WHIP TO LIGHT FIXTURE OR EQUIPMENT ATS AUTOMATIC TRANSFER SWITCH PUBLIC ADDRESS AMERICAN WIRE GAUGE PULL BOX, ELECTRICAL WALKWAY LIGHT FIXTURE POTENTIAL TRANSFORMER BFG BELOW FINISH GRADE PVC POLYVINYL CHLORIDE <del>-</del>Д-OUTDOOR SITE LIGHT, POLE MOUNTED LUMINAIRE. RECEPTACLE IS FURNISHED WHERE NOTED ON PLAN. RECPT RECEPTACLE, OUTLET CABLE TELEVISION RGS RIGID GALVANIZED STEEL NAVIGATION MARINE LANTERN, SOLAR/BATTERY OPERATED RTU REMOTE TERMINAL UNIT CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION RVSS REDUCED VOLTAGE SOFT START CONDUIT ONLY PHOTO CONTROL SWITCH TV TELEVISION MONITOR (SET) CONTROL POWER TRANSFORMER TVSS TRANS. VOLT. SURGE SUPPRESSOR CURRENT TRANSFORMER TIME CLOCK COPPER UNDER FLOOR DUPLEX RECEPTACLE, 15A 125V 2P 3W, GROUNDING TYPE, MOUNTING HEIGHT: DIRECT CURRENT UNDERGROUND +18" AFF UON UON UNLESS OTHERWISE NOTED EXHAUST FAN UPS UNINTERRUPTIBLE POWER SUPPLY JUNCTION BOX, CODE SIZED UON EG EQUIPMENT GROUNDING **EMERGENCY** VOLT ELECTRICAL METALLIC CONDUIT VOLT-AMP VA VFD VARIABLE FREQUENCY DRIVE ELECTRICAL NON-METALLIC CONDUIT EXPLOSION PROOF WEATHERPROOF FIRE ALARM FIRE ALARM CONTROL PANEL XFMR TRANSFORMER FACP FC FAN COIL FU FUSE **ANNOTATION** GROUND FAULT CIRCUIT INTERRUPTER GFI GROUND FAULT INTERRUPTER GFR GROUND FAULT RELAY DENOTES FIXTURE TYPE DESIGNATION DENOTES TYPE GND GROUND (SEE SCHEDULE) $\left\langle \begin{array}{c} A \\ 180 \end{array} \right\rangle$ OR $\langle$ HIGH INTENSITY DISCHARGE "HAND-OFF-AUTO" SWITCH HORSEPOWER — DENOTES HIGH PRESSURE SODIUM WATTS HEATING, VENTILATION & AIR-CONDITIONING ISOLATED GROUND 1 KEYNOTE JUNCTION BOX 1 DEMOLITION NOTE KILO-AMPS INTERRUPTING CAPACITY KILOVOLT KVA KILOVOLT-AMP KILOWATT KW KILOWATT-HOUR NUMBER LOW PRESSURE SODIUM LOW VOLTAGE **DETAIL INDICATOR** SECTION INDICATOR - SHEET NUMBER ON WHICH - SHEET NUMBER ON WHICH SECTION DETAIL APPEARS APPEARS

LUMINAIRE	MANUFACTURER	CATALOG NUMBER	LAMPS	NPUT WATT	VOLTAGE	MOUNTING	COMMENTS
A1	BEGA	7910LED	LED	29	120	POLE	DECORATIVE POLE LIGHT
A1 POLE	COOPER	RSA-4-T-12-N-W (TYPE 5 TENON)			-	POLE	12' ROUND ALUMINUM POLE, WHITE

	PANEL SCHEDULE																	
PANE	EL NAME:	RMP	VOLTAGE:	240/120	NE	MA RATING:	3R		MOUNTING:		PEDESTAL	NOTES:	TESCO C	ONTROL	S, METERE	ED COMBINATION SERVICE	PEDEST	AL MODEL
MAINS	RATING:	100 A MCB	PHASE:	1	,	AIC RATING:	22		LOCATION:		ENTRANCE		#26-000 V	VITH DIST	RIBUTION	BREAKERS, LIGHTING CO	NTACTOR	.,
BUS	RATING:	100 A	WIRE:	3	DEMAN	ND FACTOR:	STD						PHOTOCI	ELL, AND	TIMECLO	CK		
CKT NO.	USE	DESCRIPTION	BKR SIZE	CKT KVA	CKT AMPS	WIRE SIZE	WIRE LENGTH (FT)	VOLTAGE DROP %	PHASE	VOLTAGE DROP %	WIRE LENGTH (FT)	WIRE SIZE CKT AMPS	CKT KVA	BKR SIZE		DESCRIPTION	USE	CKT NO.
1	L	LIGHTING	20/1	0.46	3.87	8	500	2.14	А					20/1	SPARE			2
3	0	CONTROL	20/1	0.50	4.17	12	2	0.02	В					20/1	SPARE			4
5		SPACE							A						SPACE			6
7		SPACE							В						SPACE			8
CONNECT	ED KVA	DEMAND KVA	DEMAN	D AMPS		USE LEGEND		VOLTAGE DROP CALCULATION					•					
PHASE A:	0.5	0.6	4.	.8	ID	LOAD TYPE		ASSUMED P	F	VOLTAGE DF	ROP IS BASE	D ON THE IEEE RED BO	OK AND	ASSUMF	PTIONS:			
PHASE B:	0.5	0.5	4.	.2	Н	HVAC		0.8	5	2011 NEC CH	IAPTER 9 TA	BLE 9 FORMULA:		POWER	FACTOR	VARIED BY LOAD TYPI	Ξ.	
					ĪL	LIGHTING		0.80	)	VD = I*(R*	PF + X * SIN	I(ACOS(PF)) * L		CONDUI	T TYPE	RGS		
STD DEMAN	ID LOAD E	BASED ON 125% OF THE LARGE	ST MOTOR AI	ND 100%	<b>Т</b> м	MOTOR		0.85	5	WITH AN ADI	DITIONAL MU	JLTIPLIER OF 2 FOR SING	SLE	WIRE M	ATERIAL	CU		
OF THE REM	MAINING N	MOTORS, 125% OF CONTINUOUS	LOADS, 1009	% OF	R	RECEPTACI	_E	0.80	)	PHASE AND	1.732 FOR 3	-PHASE LOADS						
NONCONTIN	IUOUS LO	ADS, AND 50% OF RECEPTACLE	E LOADS BEY	OND THE	P	PANEL		0.85	5	R AND X VAL	UES ARE TA	AKEN FROM 2011 NEC CH	HAPTER					
FIRST 10KV	A				0	OTHER		0.88	5	9 TABLE 9. L	ENGTH IS IN	1000FT INCREMENTS						

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ient CITY OF WEST SACRAMENTO Piect RICE MILL PIER REHABILITATION **ELECTRICAL ABBREVIATIONS, LEGEND,** AND GENERAL NOTES

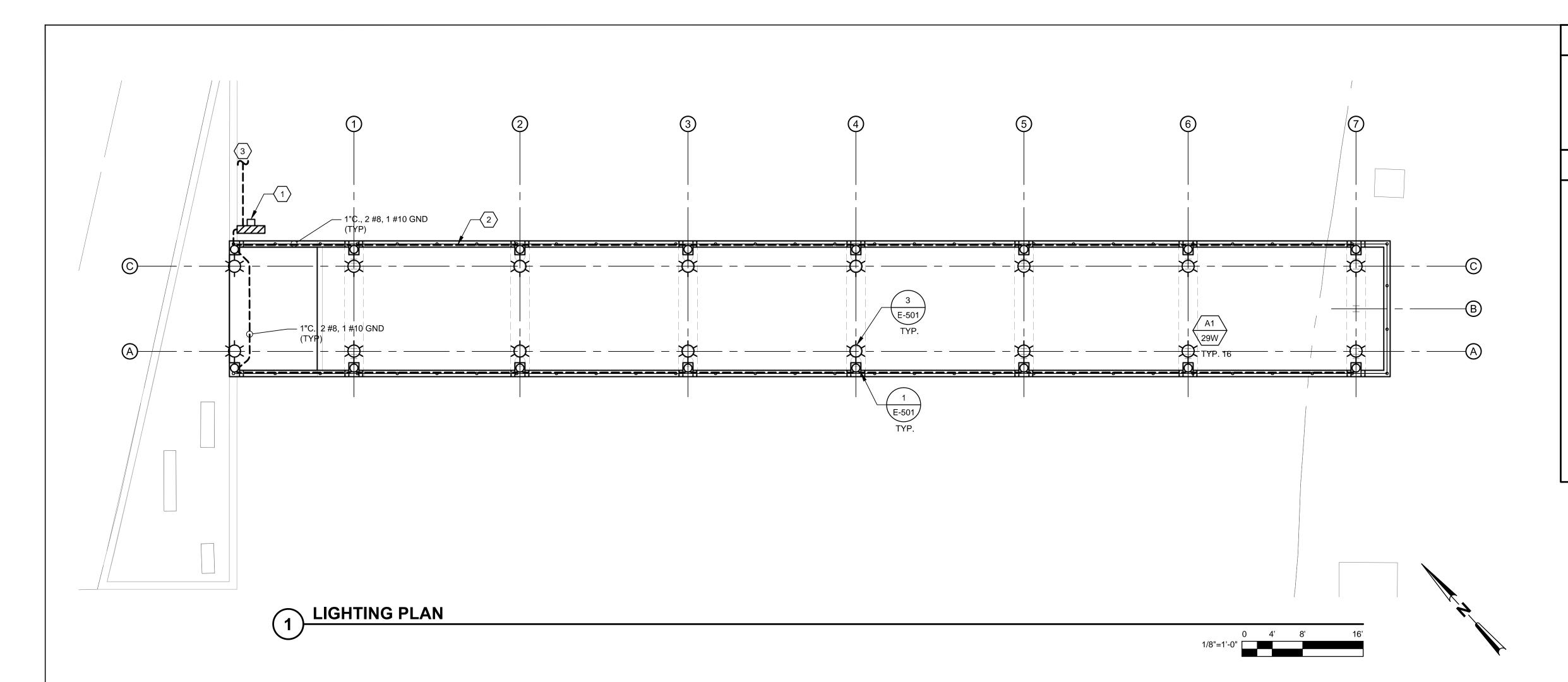
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Drawing No:

E-001 Rev:



# SHEET GENERAL NOTES

- 1. REFER TO SHEET E-001 FOR LIGHT FIXTURE SCHEDULE.
- 2. CONDUIT LOCATIONS SHOWN ARE DIAGRAMMATIC. CONTRACTOR TO COORDINATE EXACT CONDUIT ROUTING AND PLACEMENT IN THE FIELD.
- 3. PROVIDE RGS CONDUIT FOR ALL EXPOSED CONDUIT AND PVC FOR ALL UNDERGROUND AND CONCRETE EMBEDDED CONDUIT.

# **KEYNOTES**

- 1. PROVIDE NEW 'TESCO CONTROLS' COMBINATION METER/SERVICE PANEL. REFER TO ONE-LINE DIAGRAM 2/E-501 FOR ADDITIONAL REQUIREMENTS.
- 2. EMBED CONDUIT IN NEW CONCRETE CURB. REFER TO STRUCTURAL DRAWINGS FOR SECTIONS AND DETAILS.
- 3. UTILITY SERVICE CONDUIT AND CONDUCTORS.

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Drafting Check Approved (Project D		b	Check	Title	PIER LIGHTING	PLAN
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Client CITY OF WEST SACRAMENTO
Project RICE MILL PIER REHABILITATION PIER LIGHTING PLAN

Sht - of 19 Rev:

# **DETAIL NOTES:**

- 1 REFER TO LIGHT POLE MOUNTING STRUCTURAL DETAIL 3/S-131.
- FOAM GASKET ALL AROUND BETWEEN BOTTOM OF POLE BASE FOLLOWING POLE ERECTION AND FINAL LEVELING. COORDINATE WITH POLE MANUFACTURER FOR GASKET RECOMMENDATION AND METHOD.
- STUB CONDUIT UP INTO POLE BASE WIRING CAVITY.
- PROVIDE SUPPORT AND LEVELING NUTS ON TOP AND BOTTOM OF POLE BASE MOUNTING PLATE. MOUNTING PLATE AND MOUNTING BOLTS SHALL BE PER MANUFACTURER'S BOLT PATTERN, LENGTH SHALL BE PER MANUFACTURER'S SPECIFICATIONS.
- TYPICAL PVC CONDUIT, 1-INCH MIN, WITH CONDUCTORS AS INDICATED ON DRAWINGS.
- TYPICAL INCOMING EXTERIOR BRANCH CIRCUIT CONDUIT AND
- 7 BOLTED TYPE WIRE GROUND CONNECTOR.
- WIRING TO LIGHT FIXTURE. CONNECT COMPLETE.
- WATERPROOF IN-LINE FUSES.
- FINISHED DECK TOP, LP BULBOUT, WALKWAY GRADE.
- ACCESS HAND-HOLE FACING TOWARDS PIER DECK. REFER TO STRUCTURAL DETAILS FOR ANCHORING ORIENTATION WITH RESPECT TO HANDHOLE.

PEDESTAL ENCLOSURE CONSTRUCTION NOTES

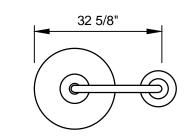
2. CONSTRUCTION WILL BE NEMA 3R, RAINTIGHT.

3. ALL NUTS, BOLTS AND SCREWS WILL BE STAINLESS STEEL.

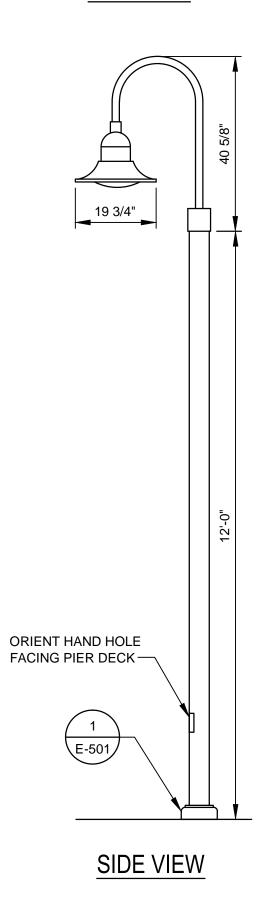
1. CABINET SHALL BE STAINLESS STEEL .



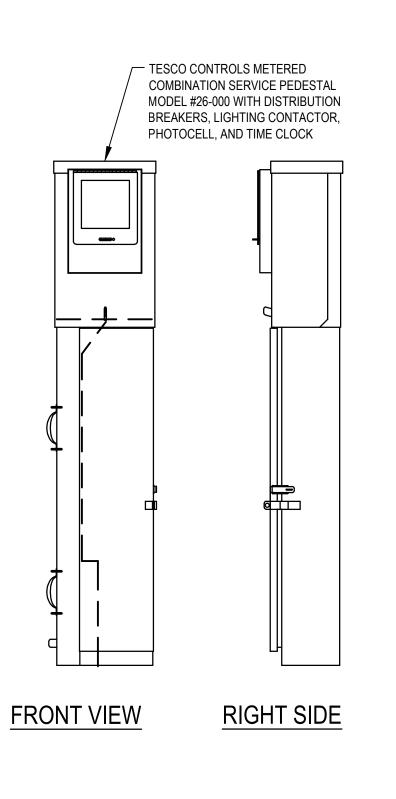
EQUIPMENT GROUND WIRE SHALL BE BONDED TO METAL STRUCTURE.

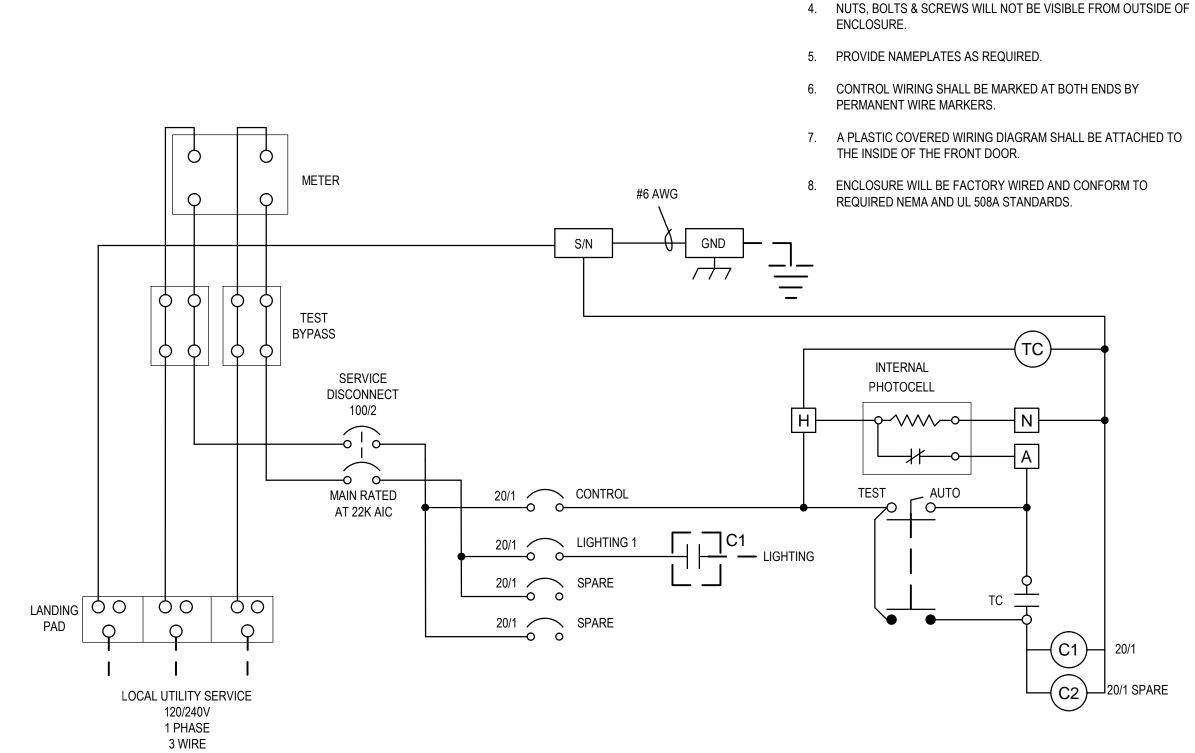


# **TOP VIEW**









# SERVICE PEDESTAL DETAIL AND ONE-LINE DIAGRAM

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			Exp. 9/30/15  STATE OF CALIFORNIA	GHD Inc. 505 Montgomery Street Suite 2300 San Francisco California 94111 USA	Approved (Project Director)  Date MARCH 20		AND ONE-LINE DIAGRAM City Work Order Numbr 70062	
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**BASE PLAN**