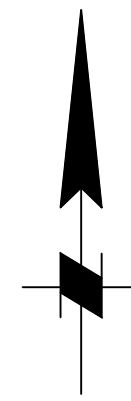


Q:\WC\9020 Encinal BLF\4\_CADD\9020\_T-1.dwg 4/9/2018 1:22 PM



### VICINITY MAP












## LOCATION MAP

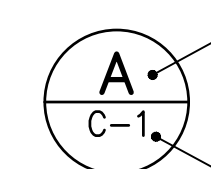
NOTE:  
BACKGROUND AERIAL PHOTO  
SHOWN FOR LOCATION MAP IS  
FROM GOOGLE EARTH 2014

INDEX OF DRAWINGS		
SHEET NO.	SHEET	DRAWING TITLE
1	T-1	TITLE SHEET
2	G-1	EXISTING LAUNCH RAMP SITE & DEMOLITION PLAN
3	C-1	OVERALL SITE PLAN
4	C-2	DETAILED SITE PLAN - LAUNCH RAMP
5	C-3	PARKING LOT PLAN
6	C-4	LAUNCH RAMP APPROACH PLAN
7	C-5	RESTROOM & LOT PLAN
8	C-6	LAUNCH RAMP PLAN AND PROFILE
9	C-7	LAUNCH RAMP SECTIONS AND DETAILS
10	C-8	LAUNCH RAMP PRECAST PANELS
11	C-9	DOCK PLAN AND PROFILE
12	C-10	DOCK DETAILS
13	C-11	DOCK FLOAT DETAILS
14	C-20	RESTROOM
15	C-21	FISH CLEANING STATION
16	C-22	POLLUTION PREVENTION
17	U-1	SITE UTILITIES
18	U-2	ELECTRICAL SINGLE LINE DIAGRAM AND SCHEDULES

LEGEND:

 PROPERTY LINE  
 CHAIN LINK FENCE  
 TIMBER RAIL FENCE  
 SANITARY SEWER  
 ELECTRIC  
 UTILITY TRENCH  
 OR  PILE  
 DEMOLITION

## CROSS-REFERENCE LEGEND



— SECTION OR DETAIL  
IDENTIFICATION, SEE NOTE

— REFERENCE SHEET ON WHICH SECTION  
OR DETAIL IS TAKEN, SEE NOTE

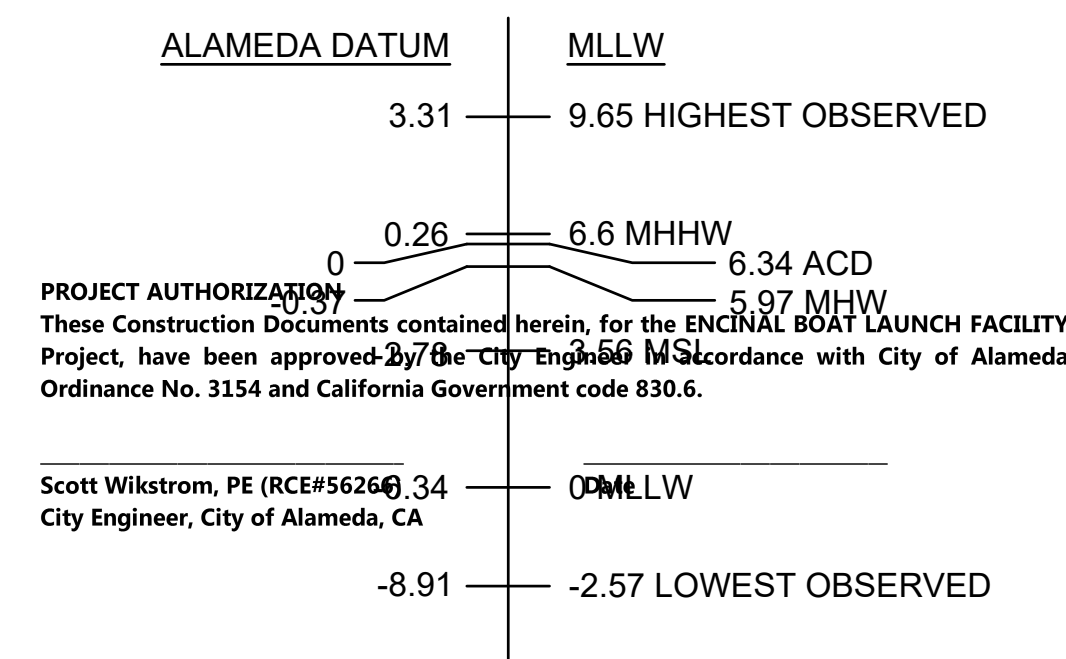
**NOTE:**  
LETTER INDICATES  
SECTION; NUMBER  
INDICATES PLAN,  
ELEVATION, OR DETAIL.  
WHERE THERE IS NO  
REFERENCE SHEET  
INDICATED, IT MEANS THE  
DETAIL OR SECTION IS  
TAKEN AND SHOWN ON  
THE SAME SHEET.

## 100% DESIGN

ABBREVIATIONS:




AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
BSW	BACK OF SIDEWALK
CONC	CONCRETE
(E), EXIST	EXISTING
E	EASTING
EF	EACH FACE
EL	ELEVATION
EW	EACH WAY
FFE	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FL	FLOWLINE
N	NORTHING
O.C.	ON CENTER
OG	ORIGINAL GROUND
SW	SIDEWALK
TBD	TO BE DETERMINED
TC	TOP OF CURB
TYP	TYPICAL
VERT	VERTICAL
WP	WORK POINT

## ELEVATIONS (FT)



GENERAL NOTES:

1. SCOPE OF WORK: CONSTRUCT BOAT LAUNCH RAMP WITH SCOUR PROTECTION, BOARDING FLOATS WITH GUIDE PILES AND LOW FREEBOARD DOCK, EXISTING PARKING LOT IMPROVEMENTS, FISH CLEANING STATION, EXTERIOR SITE LIGHTING, PREFABRICATED RESTROOM WITH ATTACHED OUTDOOR SHOWER, AND HAND-LAUNCH CRAFT LAYDOWN AREA.
2. WORK ITEMS DESIGNATED AS "NIC" ARE NOT IN CONTRACT.
3. WORK SHALL CONFORM TO CALIFORNIA DEPARTMENT OF PARKS AND RECREATION, DIVISION OF BOATING AND WATERWAYS (DBW) "LAYOUT, DESIGN AND CONSTRUCTION HANDBOOK FOR SMALL CRAFT BOAT LAUNCHING FACILITIES."
4. REPRESENTATIVES OF THE DBW SHALL BE ALLOWED ACCESS TO ALL PARTS OF THE CONSTRUCTION WORK.

<div>PROJECT AUTHORIZATION</div> <div>These Construction Documents contained herein, for the ENCINAL BOAT LAUNCH FACILITY Project, have been approved by the City Engineer in accordance with City of Alameda Ordinance No. 2154 and California Government code 830.6.</div> <div><div> Scott Wilkstrom, PE (RCE#56266) City Engineer, City of Alameda, CA</div><div><u>5/16/2019</u> Date</div></div>								<div></div>				<div><div> moffatt &amp; nichol</div><div>2185 N. CALIFORNIA BLVD., STE 500 WALNUT CREEK, CA 94596 925-944-5411</div></div>				<div>ENCINAL BOAT LAUNCH RAMP REFURBISHMENT</div> <div>TITLE SHEET</div>				<div>DATE <div>REVISED 5/16/19</div></div>	
REVISION				DESCRIPTION				BY				DATE				SHEET 1 OF 18					
																<div>T-1</div>					







Q:\WC\9020 Encinal BLF\4\_CADD\9020\_C-1 OVERALL SITE PLAN.dwg 4/9/2018 1:22 PM

KEY NOTES

- 1

REMOVE EXISTING PLANTER ISLANDS
- 2

SEAL COAT (TO PARKING LOT PROJECT LIMIT) OVER EXISTING AC PAVEMENT
- 3

ASPHALT CONCRETE PAVEMENT (2" AC OVER 4" AB)
- 4

REMOVE PORTION OF EXISTING CONCRETE BOAT RAMP
- 5

TWO LANE BOAT LAUNCH RAMP
- 6

ADA CAR/TRAILER STALLS
- 7

LIGHT POLE WITH FLOODLIGHTS
- 8

REMOVE EXISTING RESTROOM; INSTALL CITY-FURNISHED RESTROOM \*
- 9

INSTALL CITY-FURNISHED FISH CLEANING STATION \*
- 10

CONCRETE ACCESSIBLE PATH
- 11

REMOVE EXISTING GUIDE PILES
- 12

GUIDE PILES & BOARDING DOCK
- 13

GUIDE PILES AND LOW-FREEBOARD DOCK
- 14

OUTDOOR SHOWER \* (CITY-FURNISHED) WITH DRAIN
- 15

LAYDOWN AREA FOR HAND-LAUNCH CRAFT
- 16

PARKING LOT CAR/TRAILER STRIPING (37 PULL-THROUGH STALLS)
- 17

INSTALL CITY-FURNISHED PROJECT SIGN \* SEE 

1  
C-7
- 18

DIRECTION ARROWS (CALTRANS A24A, TYPE I 10')
- 19

CAR ACCESSIBLE STALL [NIC]
- 20

CONCRETE APRON
- 21

CONCRETE CURB
- 22

GANGWAY \*
- 23

CONCRETE ABUTMENT
- 24

ASPHALT CONCRETE PAVEMENT (2" AC OVER 6" AB)
- 25

REMOVE AC PAVEMENT AND BASE (4")
- 26

ASPHALT CONCRETE (2" AC OVER 4" AB)
- \* DEFERRED SUBMITTAL ITEM

NOTES:

1. WORK DESCRIBED IN KEY NOTES DENOTE NEW CONSTRUCTION UNLESS OTHERWISE NOTED OR INDICATED.
2. AERIAL BACKGROUND IS FOR GENERAL REFERENCE ONLY AND IS NOT ORTHO-RECTIFIED AND DOES NOT SCALE PRECISE WITH SURVEYED LINES WHICH ARE ACCURATE.
3. ELEVATIONS CONTOURS IN PARKING LOT ARE ALAMEDA DATUM, CONTOURS ON RAMP ARE MLLW.

LEGEND

- 1

 PHOTO LOCATION

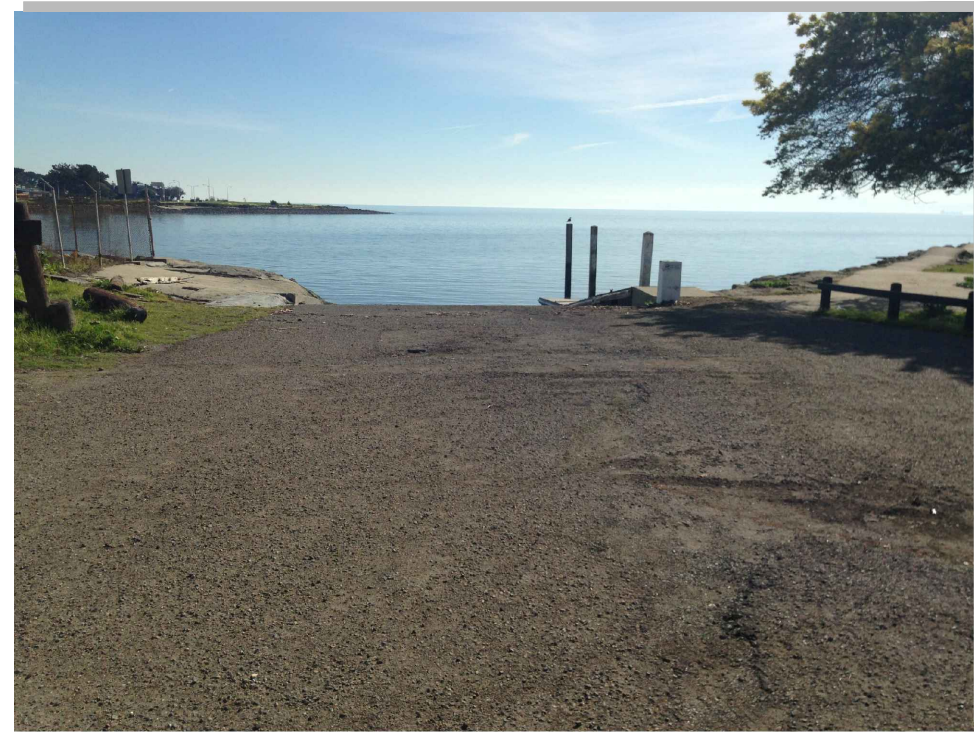


PHOTO 1



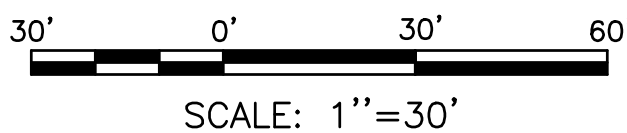
PHOTO 2



PHOTO 3



PHOTO 4



REVISION	DESCRIPTION	BY	DATE



2185 N. CALIFORNIA BLVD, STE 500  
WALNUT CREEK, CA 94596  
925-944-5411

DSGN	BP	DR	TE	CHK
JOB NO.	9020	SUBMITTED BY	TITLE	

ENCINAL BOAT LAUNCH RAMP  
REFURBISHMENT  
OVERALL SITE PLAN

DATE **REVISED 5/16/19**

SHEET 3 OF 18

C-1



1

 OVERALL SITE PLAN  
C-1 SCALE: 1" = 30'



KEY NOTES

- 4

REMOVE PORTION OF EXISTING CONCRETE BOAT RAMP
- 5

TWO LANE BOAT LAUNCH RAMP
- 7

LIGHT POLE
- 8

REMOVE EXISTING RESTROOM; INSTALL CITY-FURNISHED RESTROOM \*
- 9

INSTALL CITY-FURNISHED FISH CLEANING STATION \*
- 9A

INSTALL CITY-FURNISHED CANOPY STRUCTURE \*
- 10

CONCRETE ACCESSIBLE PATH
- 11

REMOVE EXISTING GUIDE PILES

12

GUIDE PILES & BOARDING DOCK \*

13

GUIDE PILES AND LOW-FREEBOARD DOCK \*

14

OUTDOOR SHOWER \* (CITY-FURNISHED) WITH DRAIN

15

LAYDOWN AREA FOR HAND-LAUNCH CRAFT

17

INSTALL CITY-FURNISHED PROJECT SIGN, SEE 

1  
C-7

19

ACCESSIBLE PARKING STALL [NIC]

20

CONCRETE APRON

- 21

CONCRETE CURB
- 22

GANGWAY \*
- 23

CONCRETE ABUTMENT
- 24

ASPHALT CONCRETE PAVEMENT (2" AC OVER 6" AB)
- 25

REMOVE AC PAVEMENT AND BASE (4")
- 26

ASPHALT CONCRETE (2" AC OVER 4" AB)

\* DEFERRED SUBMITTAL ITEM

NOTES:

1. WORK DESCRIBED IN KEY NOTES DENOTE NEW CONSTRUCTION UNLESS OTHERWISE NOTED OR INDICATED.
2. AERIAL BACKGROUND IS FOR GENERAL REFERENCE ONLY AND IS NOT ORTHO-RECTIFIED AND DOES NOT SCALE PRECISE WITH SURVEYED LINES WHICH ARE ACCURATE.
3. ELEVATIONS CONTOURS IN PARKING LOT ARE ALAMEDA DATUM, CONTOURS ON RAMP ARE MLLW.
4. SEE SHEET C-4 FOR RAMP APPROACH PLAN.
5. ACCESSIBLE PARKING STALLS SHALL INCLUDE SIGNAGE PER CBC 11B-502. EXISTING ACCESSIBLE SIGNAGE SHALL BE EXTENDED AS REQUIRED TO PROVIDE MINIMUM VERTICAL CLEARANCE. SIGN POST EXTENSION SHALL BE SNAP-N-SAFE BREAKAWAY POST COUPLER OR EQUAL.
6. ACCESSIBLE ROUTE PER CBC 11B DIVISION 4:

A. LOCATION: FROM PUBLIC ACCESSIBLE PARKING TO RESTROOM TO TOP OF LAUNCH RAMP BOARDING DOCKS.

B. WIDTH: 4-FT WIDE (MINIMUM).

C. CROSS SLOPE: MAXIMUM 2.0%.

D. LONGITUDINAL SLOPE: MAXIMUM 5.0%.

E. NO ABRUPT CHANGES IN LEVEL EXCEEDING 1/4 INCH PER CBC 11B-303.

F. NON-SLIP SURFACE: PER CBC 11B-403.

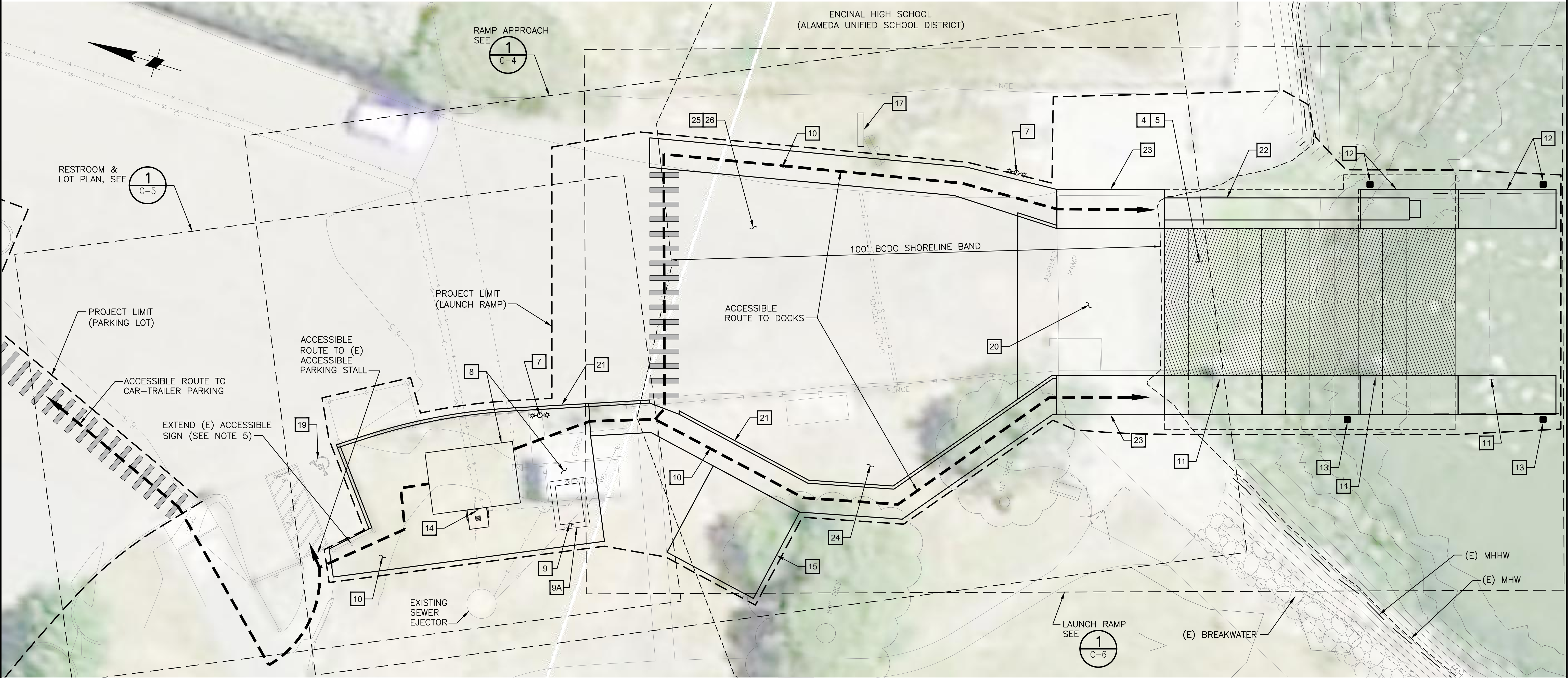
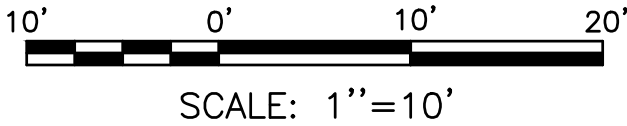


IMAGE SOURCE: CAL ATLAS AUG 2011

1 DETAILED SITE PLAN  
C-1 SCALE: 1" = 10'



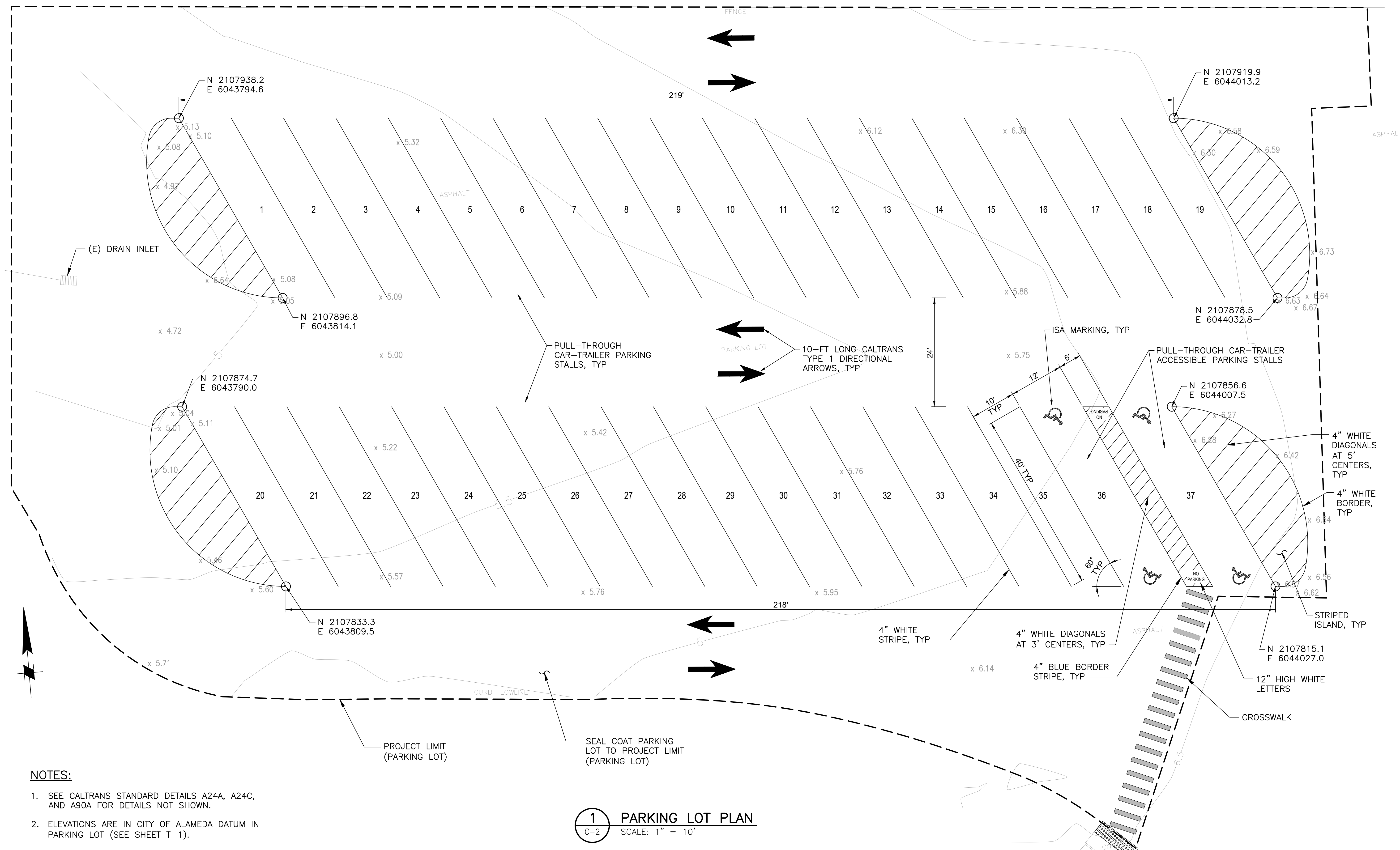
REVISION	DESCRIPTION	BY	DATE



<div><div>mo</div><div>ffatt &amp; nichol</div></div> <div>2185 N. CALIFORNIA BLVD, STE 500 WALNUT CREEK, CA 94596 925-944-5411</div>		
DSGN	BP	DR
JOB NO.	9020	TE
		CHK
		SUBMITTED BY
		TITLE

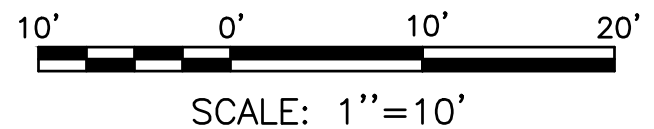
ENCINAL BOAT LAUNCH RAMP REFURBISHMENT  DETAILED SITE PLAN - LAUNCH RAMP	DATE 05-08-2019
	SHEET 4 OF 18
	C-2






- NOTES:**
1. SEE CALTRANS STANDARD DETAILS A24A, A24C, AND A90A FOR DETAILS NOT SHOWN.
  2. ELEVATIONS ARE IN CITY OF ALAMEDA DATUM IN PARKING LOT (SEE SHEET T-1).

**1 PARKING LOT PLAN**  
C-2 SCALE: 1" = 10'



	REVISION	DESCRIPTION	BY	DATE



 <b>moffatt &amp; nichol</b>		2185 N. CALIFORNIA BLVD, STE 500 WALNUT CREEK, CA 94596 925-944-5411	
DSGN BP	DR TE	CHK	
JOB NO. 9020	SUBMITTED BY	TITLE	

# ENCINAL BOAT LAUNCH RAMP REFURBISHMENT PARKING LOT PLAN

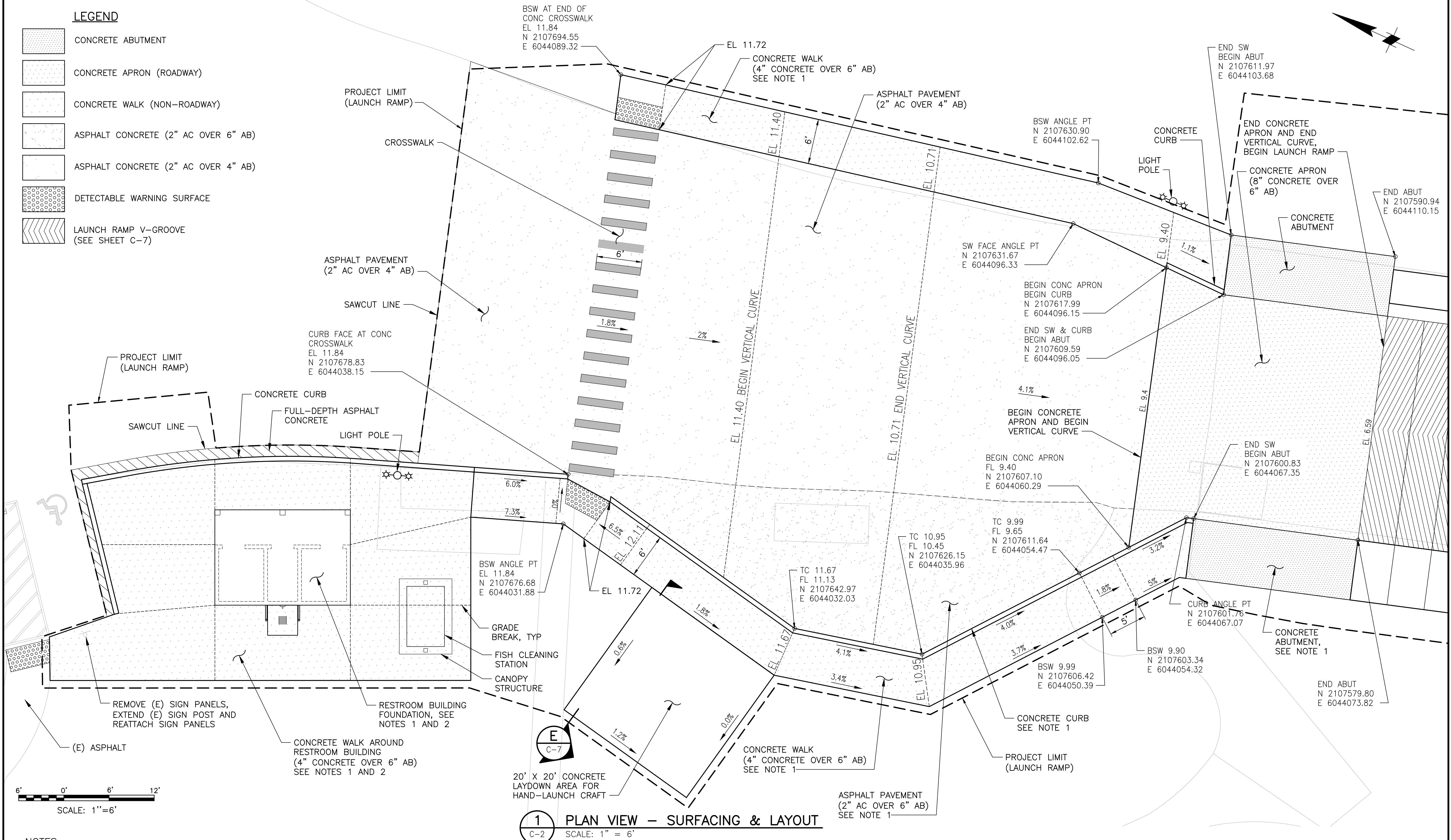
DATE REVISED 5/16/19  
SHEET 5 OF 18  
C-3



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## LEGEND

	CONCRETE ABUTMENT
	CONCRETE APRON (ROADWAY)
	CONCRETE WALK (NON-ROADWAY)
	ASPHALT CONCRETE (2" AC OVER 6" AB)
	ASPHALT CONCRETE (2" AC OVER 4" AB)
	DETECTABLE WARNING SURFACE
	LAUNCH RAMP V-GROOVE (SEE SHEET C-7)



## NOTES:

- EXISTING UNPAVED AREAS TO RECEIVE NEW CONCRETE OR ASPHALT CONCRETE SHALL BE CLEARED AND GRUBBED TO A DEPTH OF 6 INCHES BELOW EXISTING GROUND SURFACE. SCARIFY TO MINIMUM DEPTH OF 8 INCHES AND COMPACT SUBGRADE TO 95% (MINIMUM) RELATIVE COMPACTION PRIOR TO PLACEMENT OF AGGREGATE BASE.
- FOR RESTROOM AND CONCRETE WALK LAYOUT AND DETAILS, SEE **1**  
C-5

REVISION	DESCRIPTION	BY	DATE



2185 N. CALIFORNIA BLVD, STE 500  
WALNUT CREEK, CA 94596  
925-944-5411

DSGN	BP	DR	TE	CHK
JOB NO.	9020	SUBMITTED BY	TITLE	

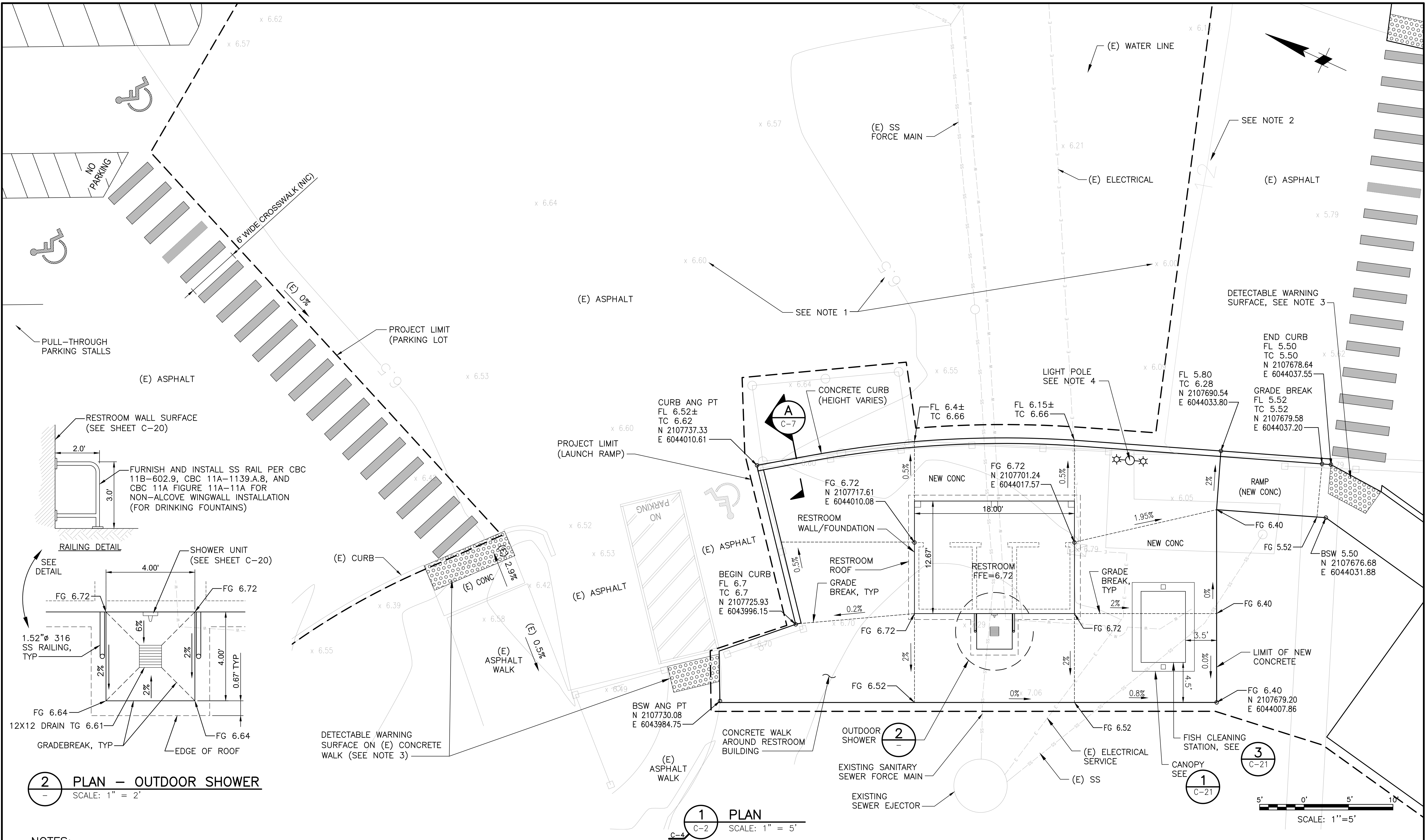
## ENCINAL BOAT LAUNCH RAMP REFURBISHMENT LAUNCH RAMP APPROACH PLAN

DATE **REVISED 5/16/19**

SHEET **6** OF **18**

**C-4**





NOTES:

1. ELEVATIONS ARE IN CITY OF ALAMEDA DATUM (SEE DWG T-1).
2. RAMP ELEVATIONS ARE MLLW (SEE DWG T-1).
3. DETECTABLE WARNING SURFACE PER CALTRANS STANDARD PLANS.
4. FOR PROPOSED UTILITIES, SEE SHEET U-1.
5. RESTROOM WILL HAVE AN INTEGRAL CONCRETE FLOOR SLAB. CONCRETE WALK SHALL BE POURED IN PLACE AFTER FINAL INSTALLATION OF RESTROOM IS COMPLETED.

	REVISION	DESCRIPTION	BY	DATE



2185 N. CALIFORNIA BLVD, STE 500  
WALNUT CREEK, CA 94596  
925-944-5411

DSGN BP	DR TE	CHK
JOB NO. 9020	SUBMITTED BY	TITLE

# ENCINAL BOAT LAUNCH RAMP REFURBISHMENT

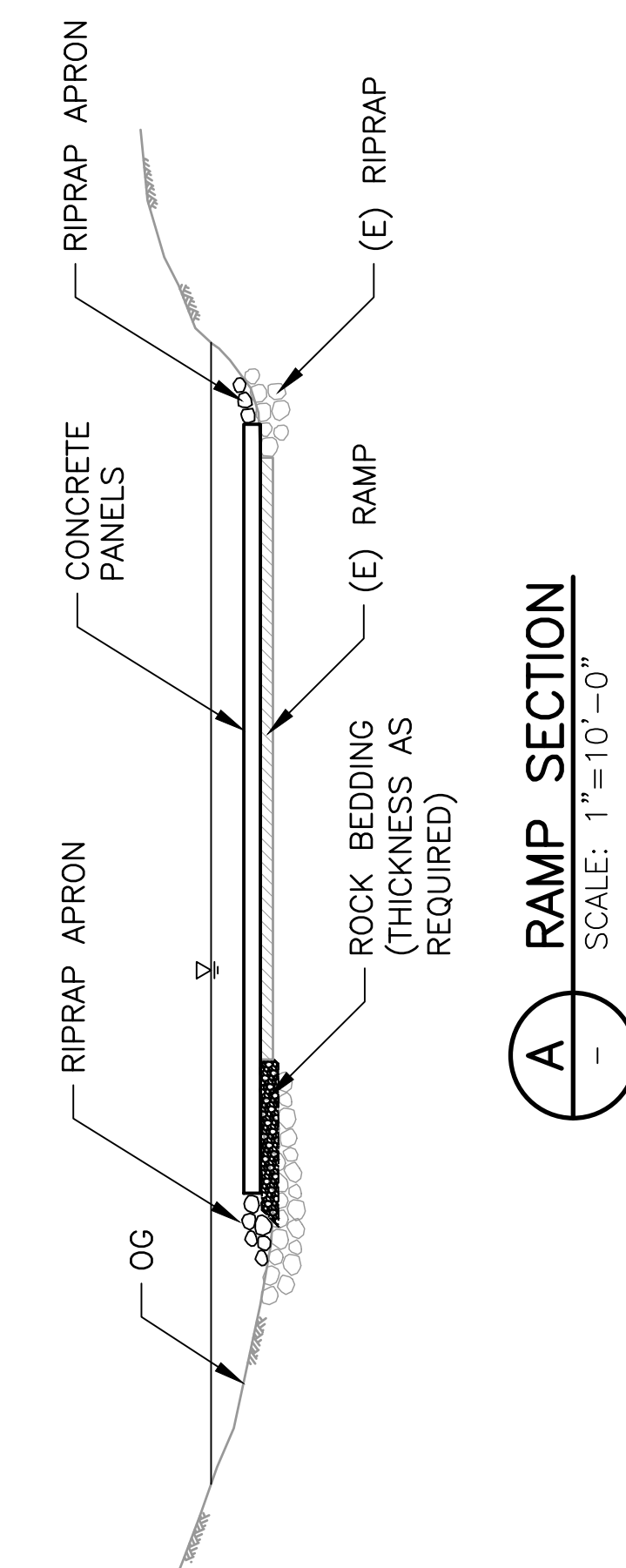
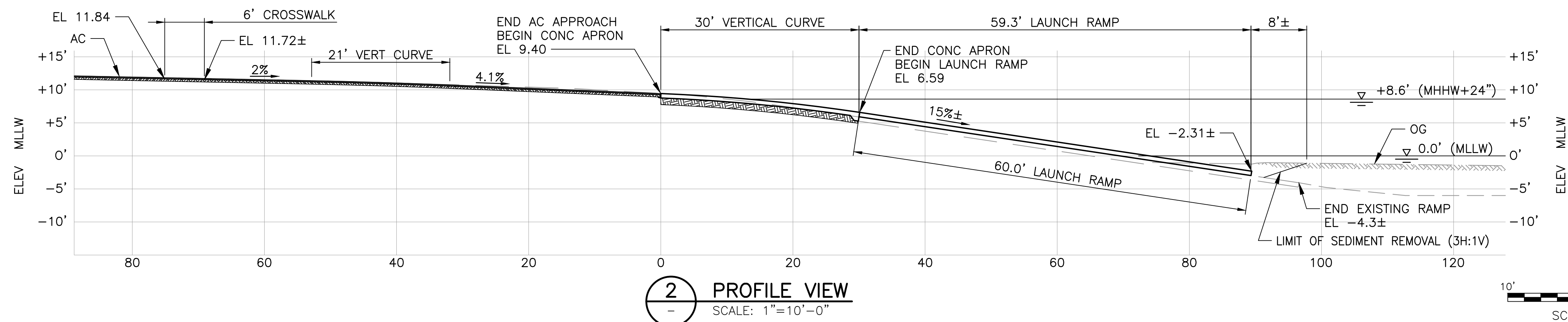
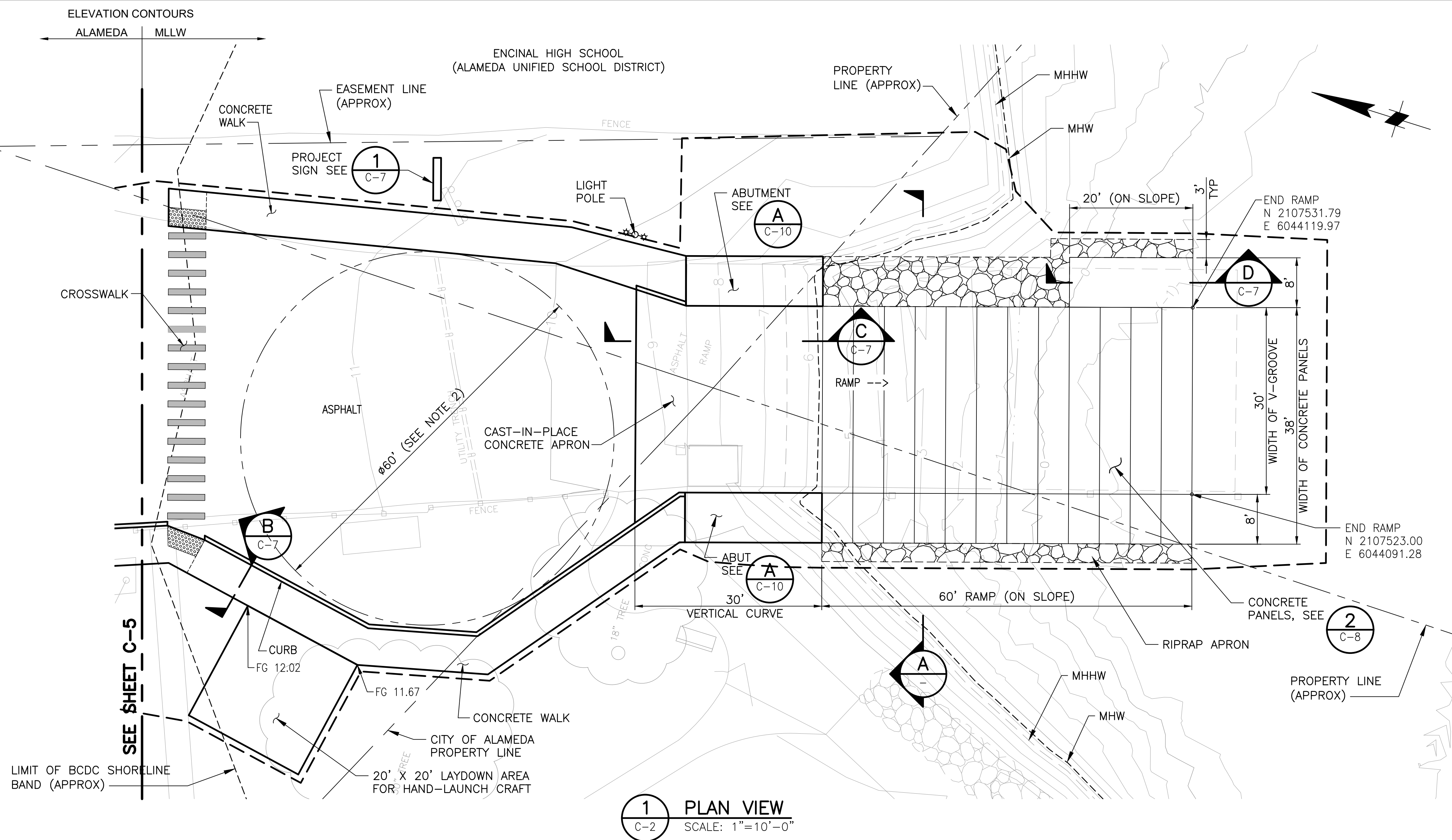
## RESTROOM & LOT PLAN

DATE **REVISED 5/16/19**

SHEET 7 OF 18

C-5





- NOTES:

1. ELEVATIONS SHOWN ON THIS SHEET ARE REFERENCED TO MLLW (SEE DWG T-1).
2. THE 60-FT DIAMETER CIRCLE IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY IN CONFORMANCE WITH DIVISION OF BOATING AND WATERWAYS GUIDELINES FOR VEHICLE TURNING AREA AT THE HEAD OF LAUNCH RAMPS.

2. THE 60-FT DIAMETER CIRCLE IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY IN CONFORMANCE WITH DIVISION OF BOATING AND WATERWAYS GUIDELINES FOR VEHICLE TURNING AREA AT THE HEAD OF LAUNCH RAMPS.

	REVISION	DESCRIPTION	BY	DATE



2185 N. CALIFORNIA BLVD, STE 500  
WALNUT CREEK, CA 94596  
925-944-5411

DSGN BP	DR TE	CHK
JOB NO. 9020	SUBMITTED BY	TITLE

ENCINAL BOAT LAUNCH RAMP  
REFURBISHMENT  
LAUNCH RAMP PLAN AND PROFILE

DATE REVISED 5/16/19

SHEET 8 OF 18

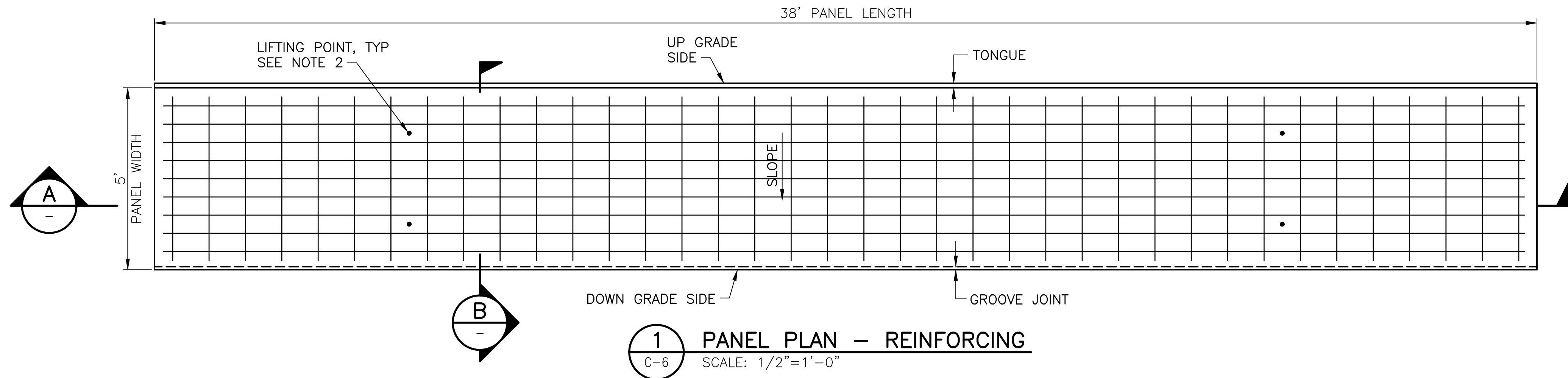
C-6



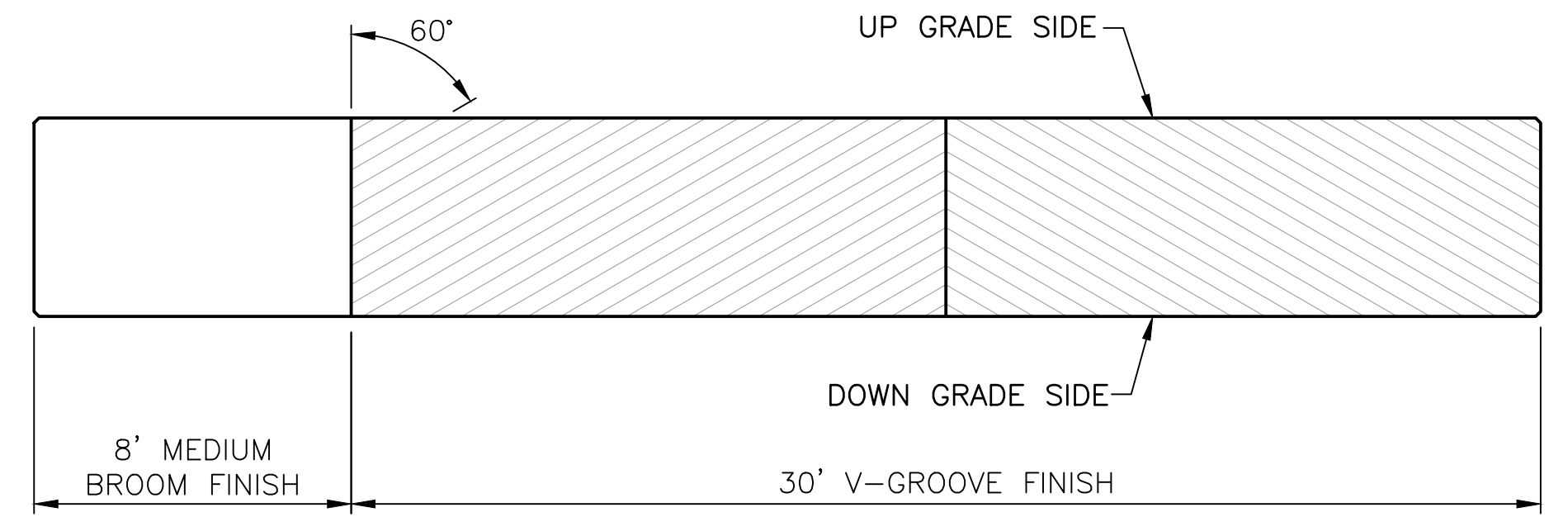




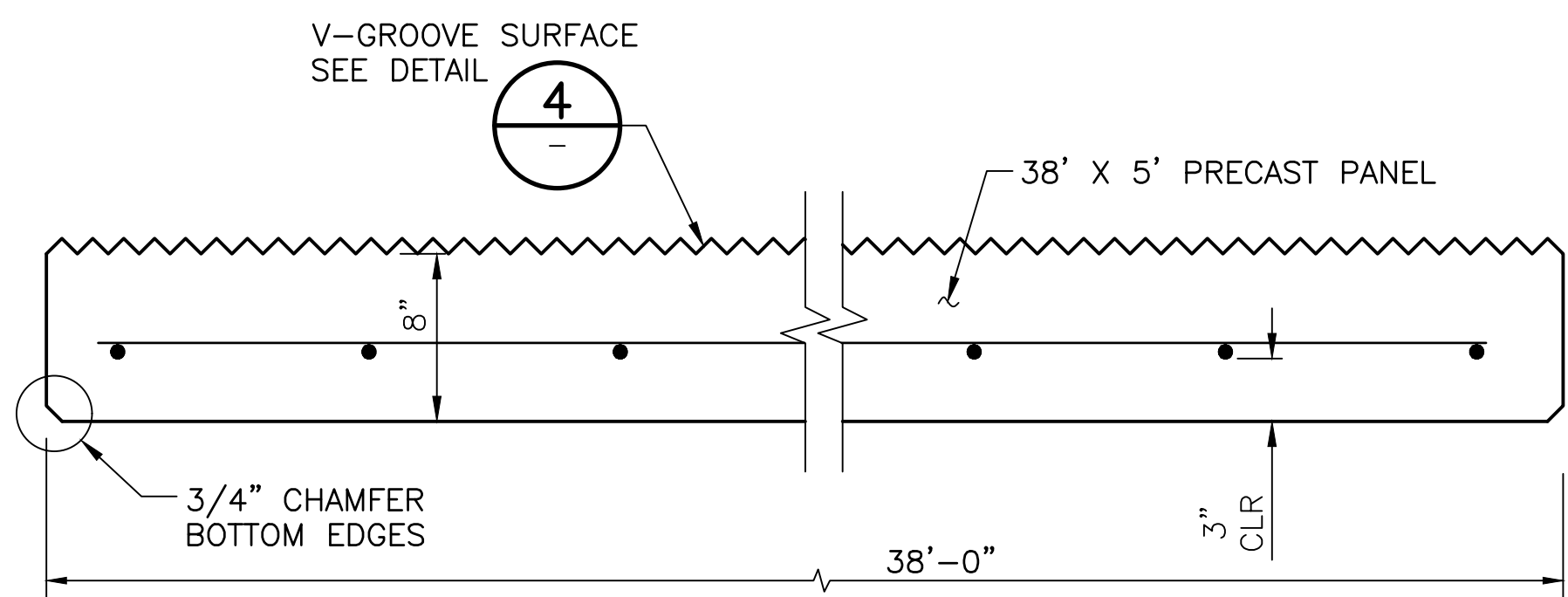
Q:\WC\9020 Encinal BLF\4\_CADD\9020\_C-8 RAMP PRECAST PANELS.dwg 4/9/2018 1:22 PM



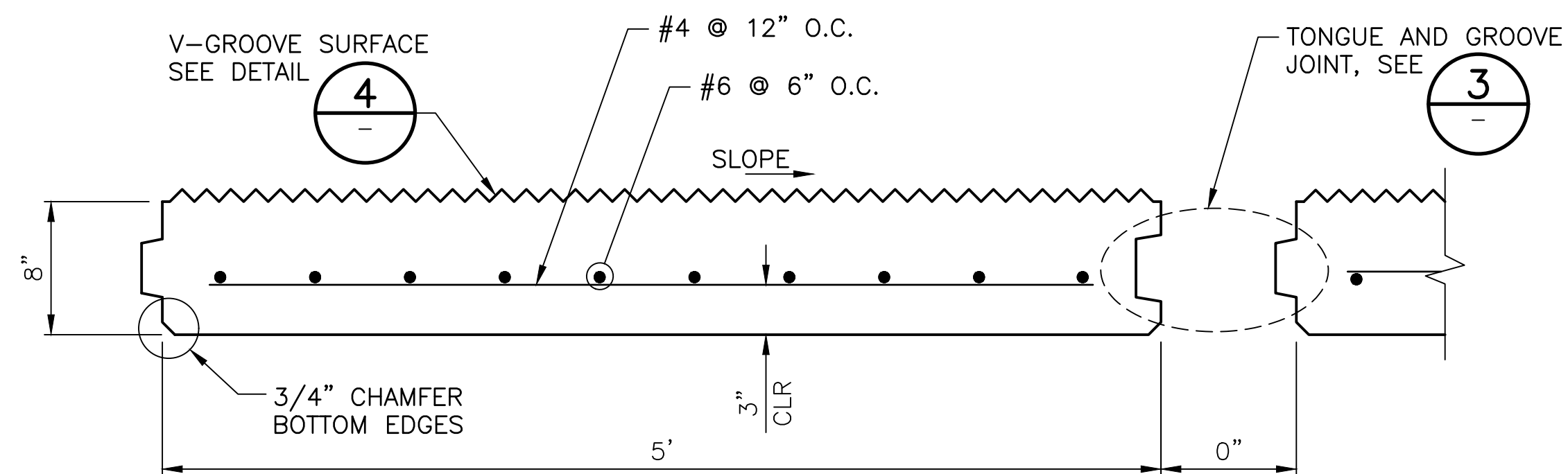
1 PANEL PLAN - REINFORCING  
C-6 SCALE: 1/2"=1'-0"



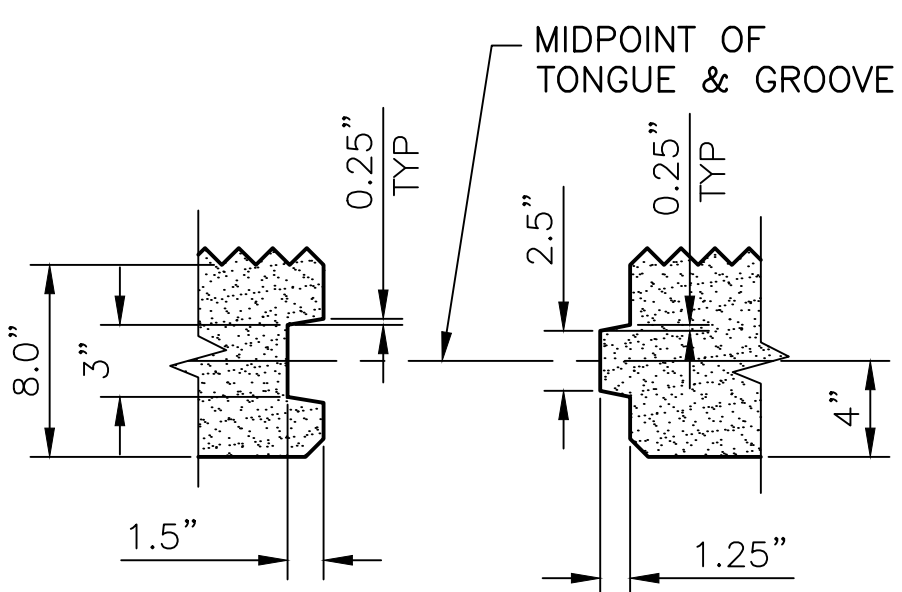
2 PANEL PLAN - SURFACE TREATMENT  
SCALE: 1/4"=1'-0"



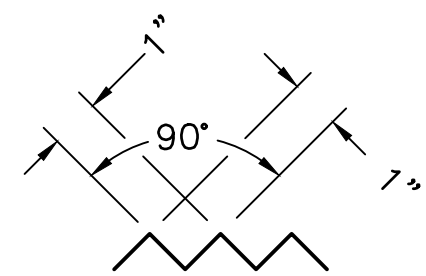
A PANEL SECTION - LONGITUDINAL  
SCALE: 1 1/2"=1'-0"



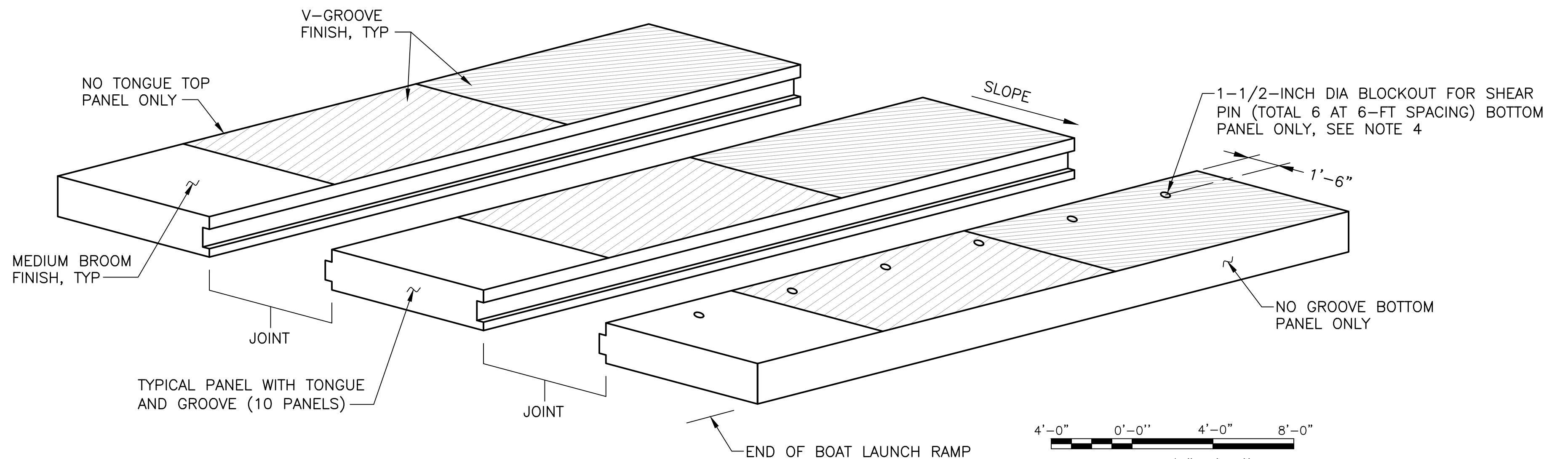
B PANEL SECTION - TRANSVERSE  
SCALE: 1 1/2"=1'-0"



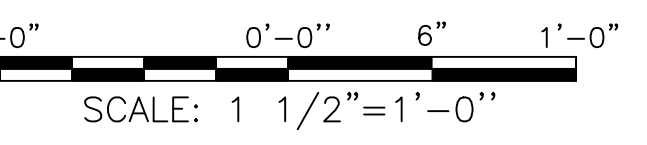
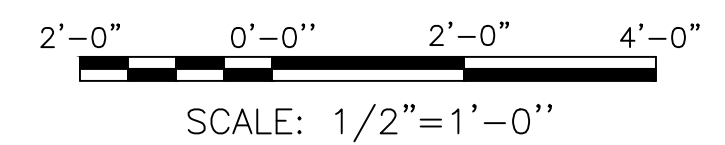
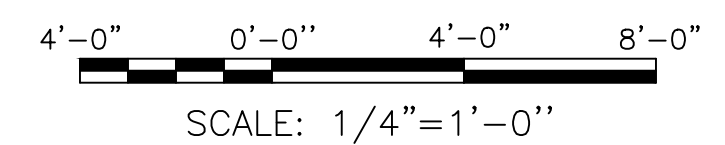
3 DETAIL - TONGUE & GROOVE  
SCALE: 1 1/2"=1'-0"



4 DETAIL - V-GROOVE  
SCALE: HALF SCALE



5 PANEL INSTALLATION ISOMETRIC  
SCALE: NTS



ENCINAL BOAT LAUNCH RAMP  
REFURBISHMENT  
LAUNCH RAMP PRECAST PANELS

DATE 05-08-2019

SHEET 10 OF 18

C-8

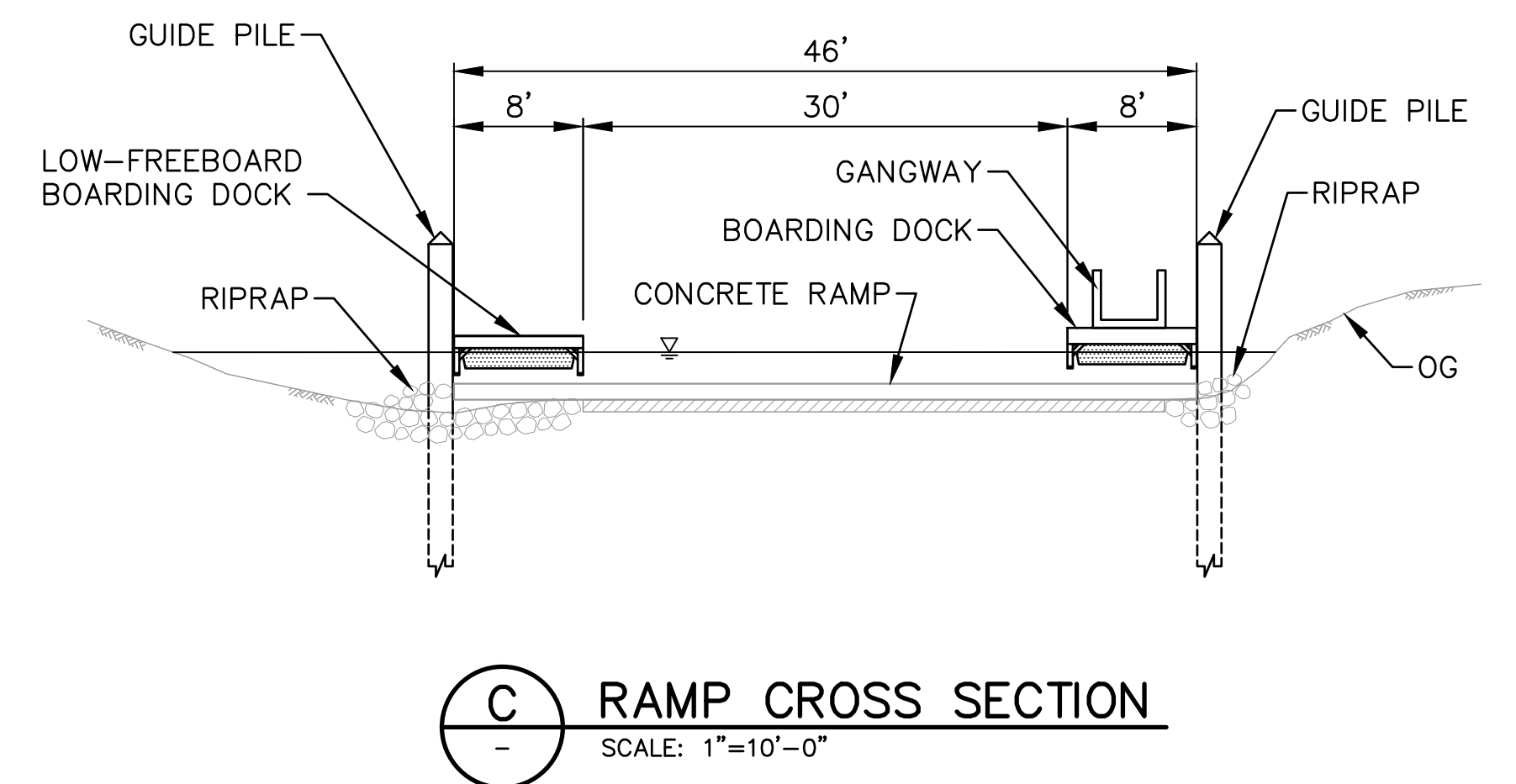
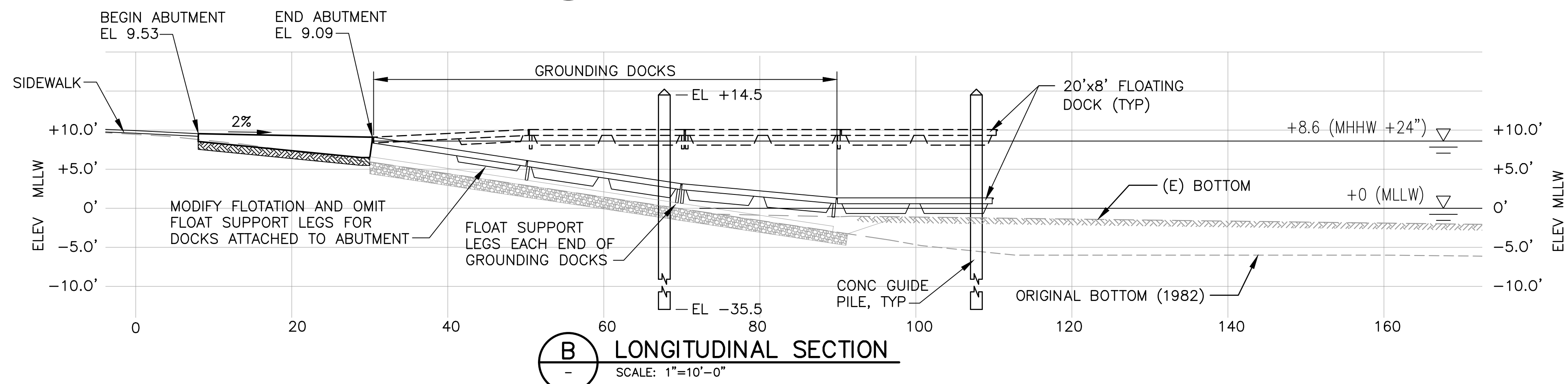
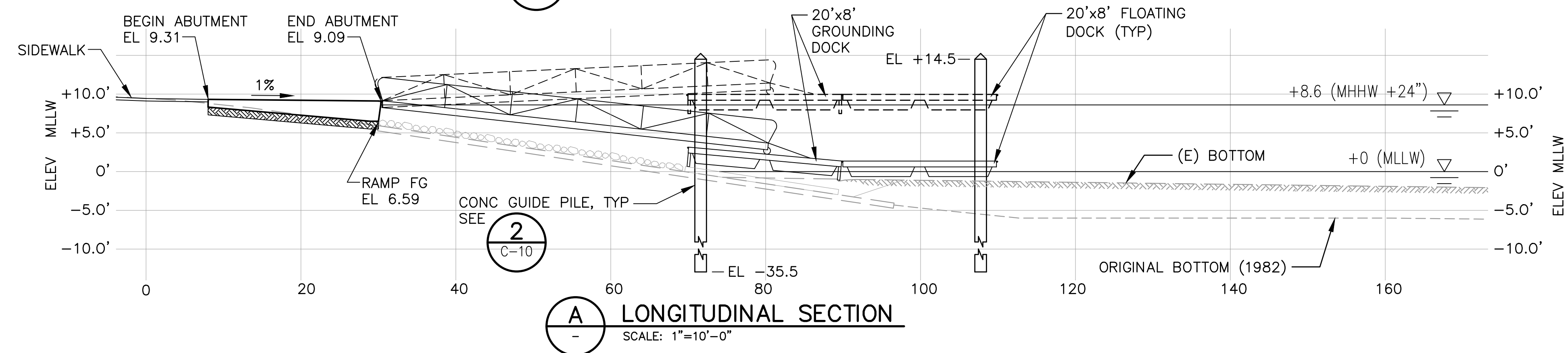
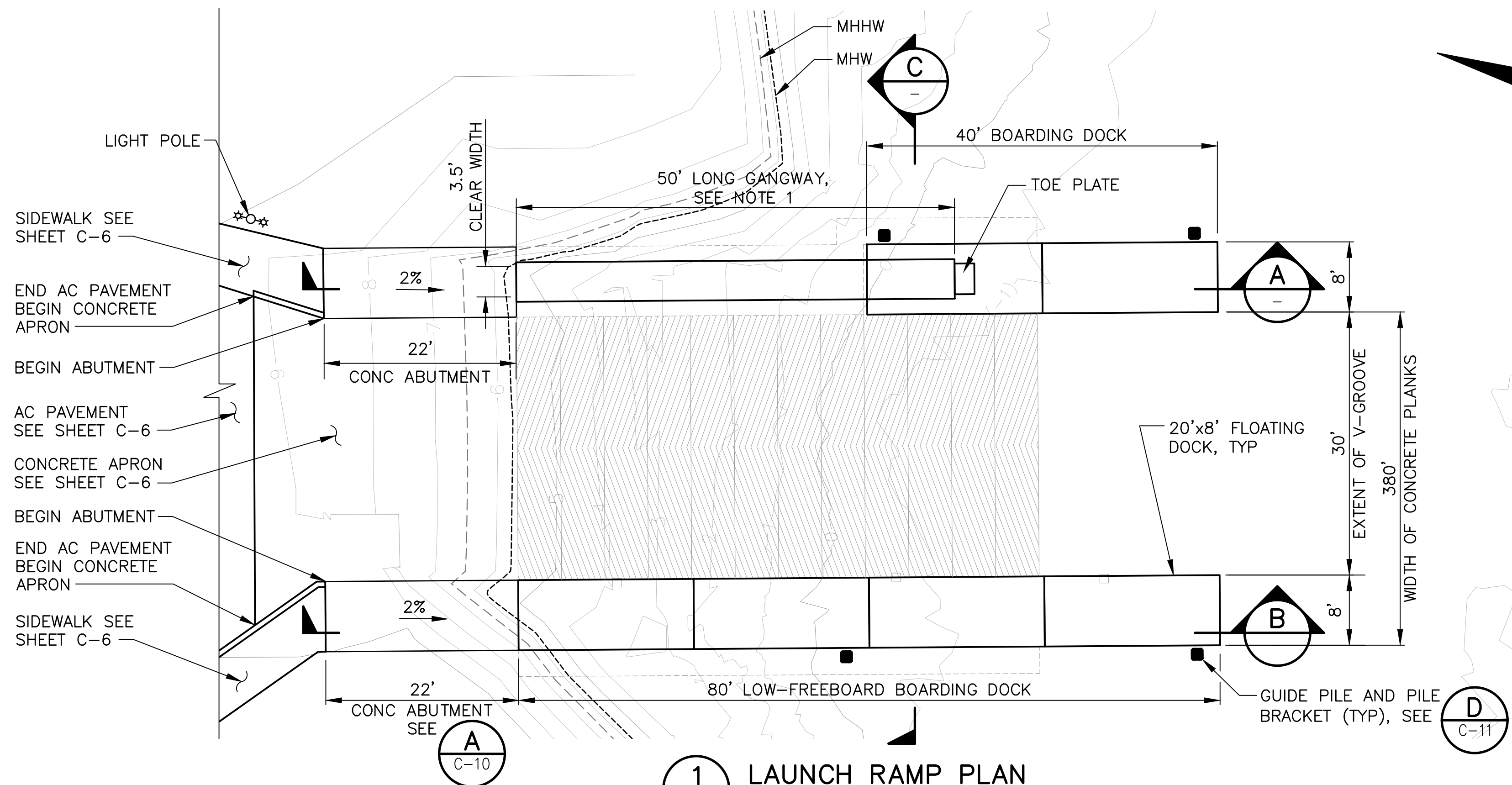
REVISION	DESCRIPTION	BY	DATE



<b>mo</b> moffatt & nichol			2185 N. CALIFORNIA BLVD, STE 500 WALNUT CREEK, CA 94596 925-944-5411		
DSGN	BP	DR	TE	CHK	
JOB NO.	9020	SUBMITTED BY		TITLE	



Q:\WC\9020 Encinal BLF\4\_CADD\9020\_C-9 DOCK PLAN AND SECTIONS.dwg 4/9/2018 1:22 PM



10' 0' 10' 20'  
SCALE: 1" = 10'-0"

**NOTES:**

1. GANGWAY SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH CBC 11B-1003.2.2.

REVISION	DESCRIPTION	BY	DATE



<b>moftatt &amp; nichol</b> 2185 N. CALIFORNIA BLVD, STE 500 WALNUT CREEK, CA 94596 925-944-5411		
DSGN BP	DR TE	CHK
JOB NO. 9020	SUBMITTED BY	TITLE

ENCINAL BOAT LAUNCH RAMP  
REFURBISHMENT  
DOCK PLAN AND PROFILE

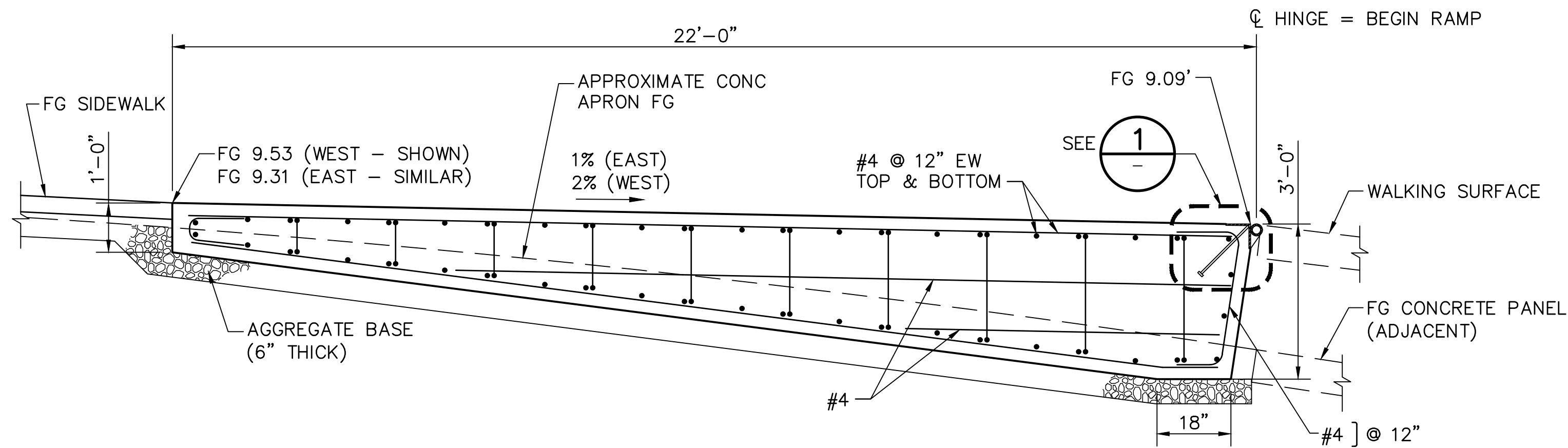
DATE **REVISED 5/16/19**

SHEET 11 OF 18

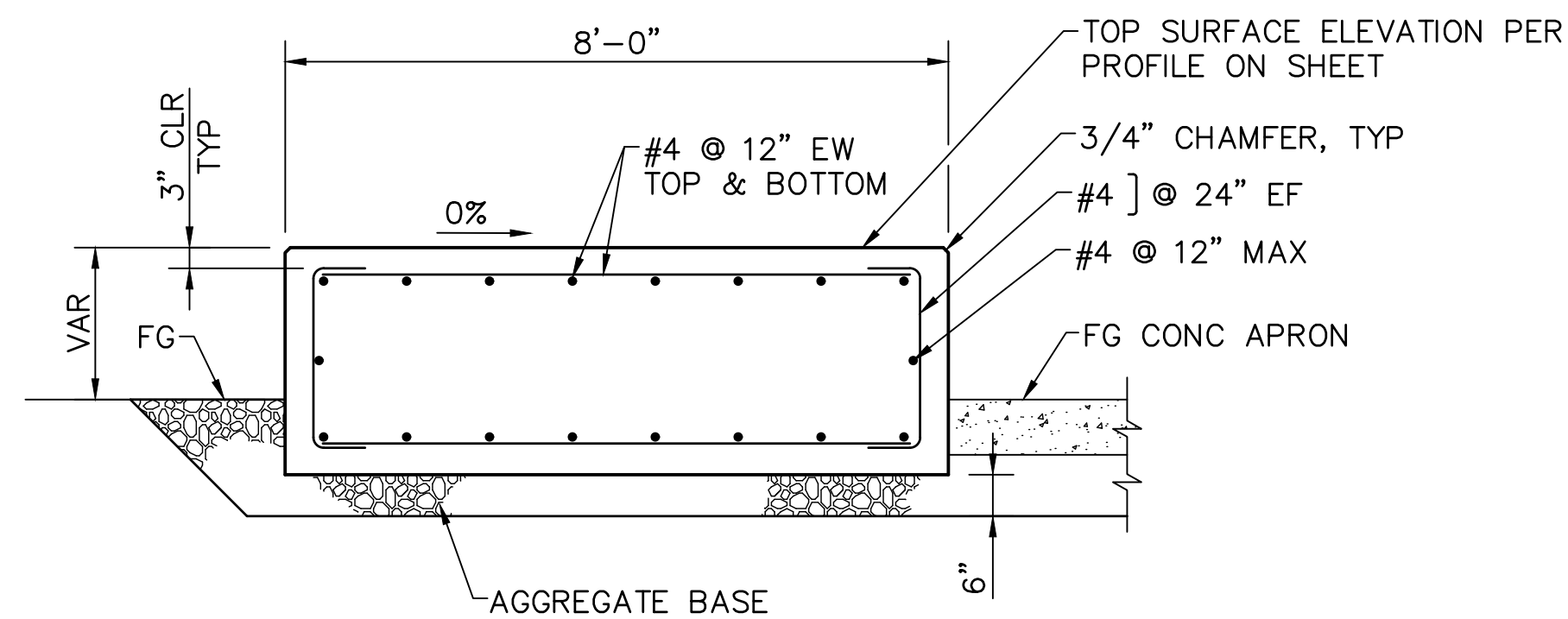
**C-9**



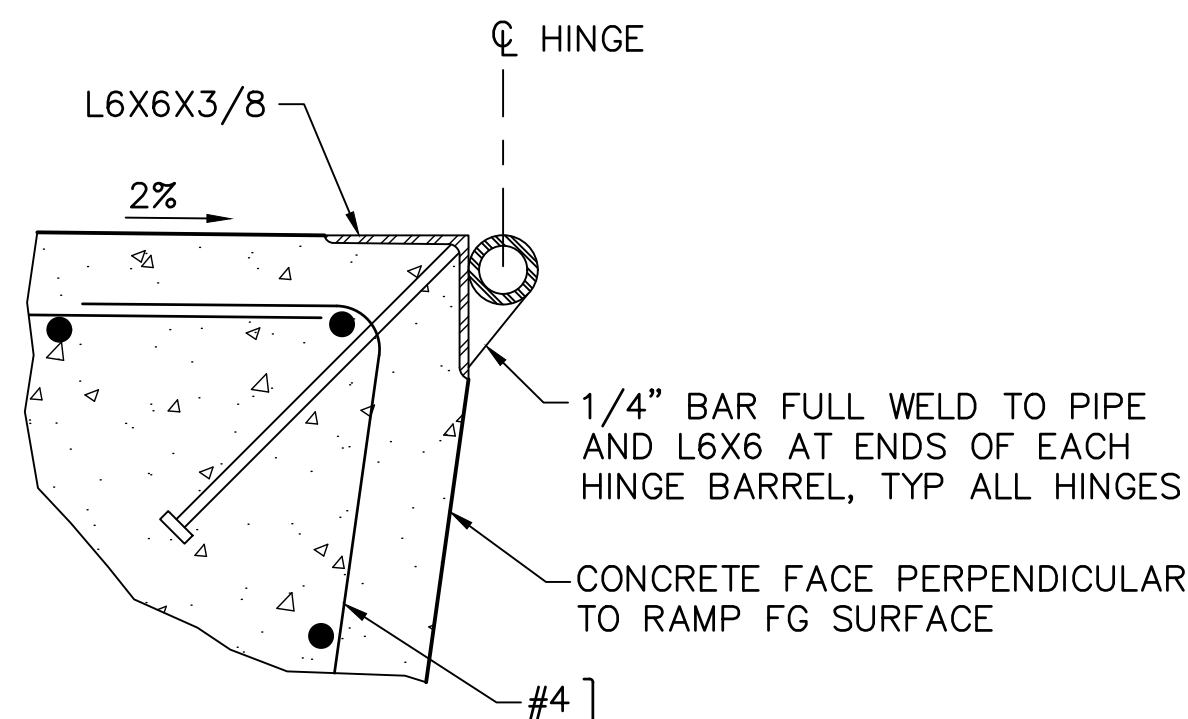
Q:\WC\9020 Encinal BLF\4\_CADD\9020\_C-10 DOCK DETAILS.dwg 4/9/2018 1:22 PM



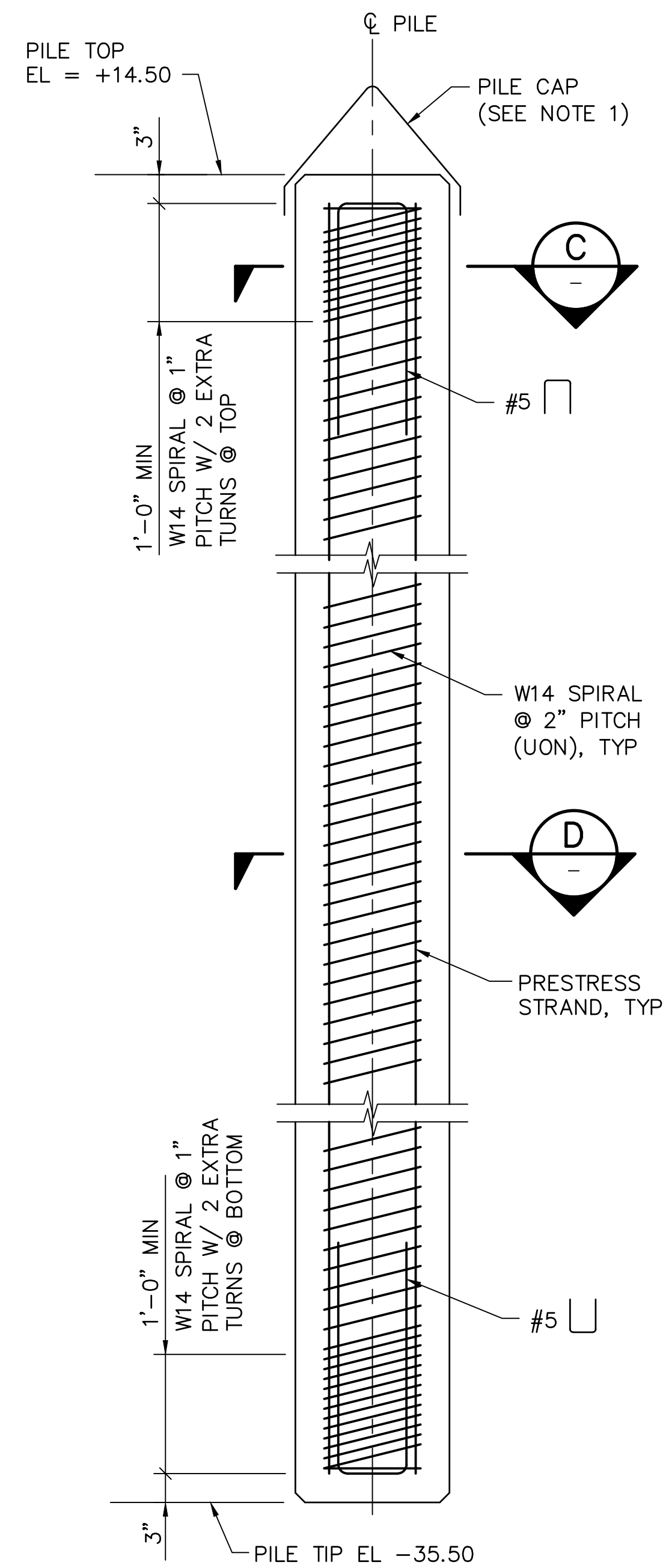
**A** ABUTMENT SECTION  
C-9 SCALE: 1/2"=1'-0"



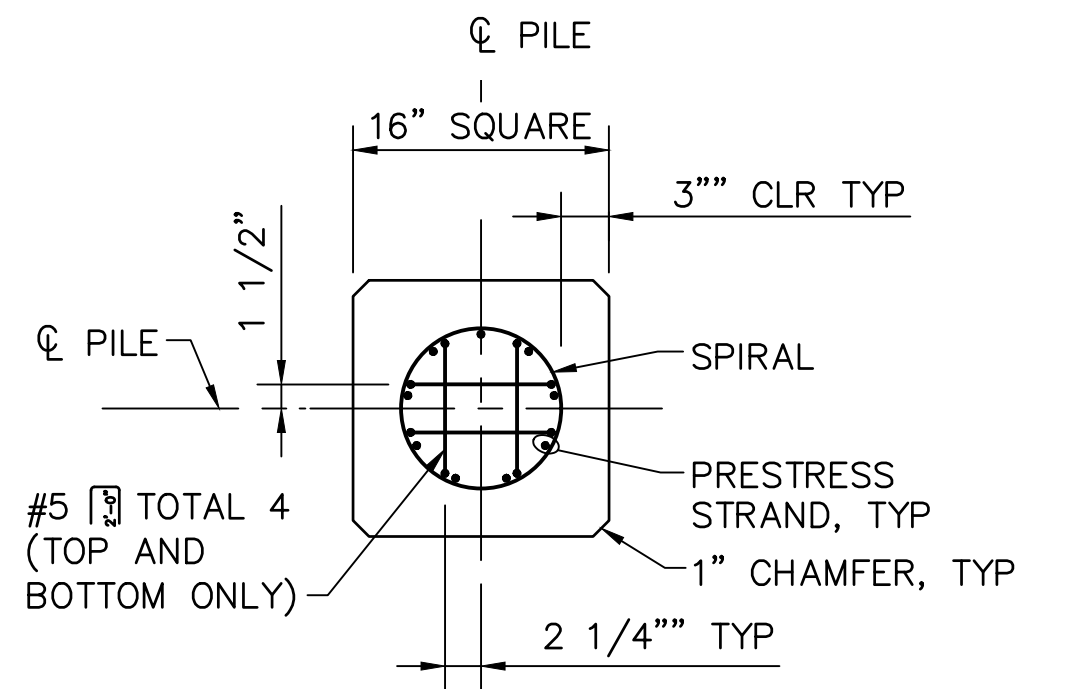
**B** ABUTMENT SECTION  
SCALE: 1/2"=1'-0"



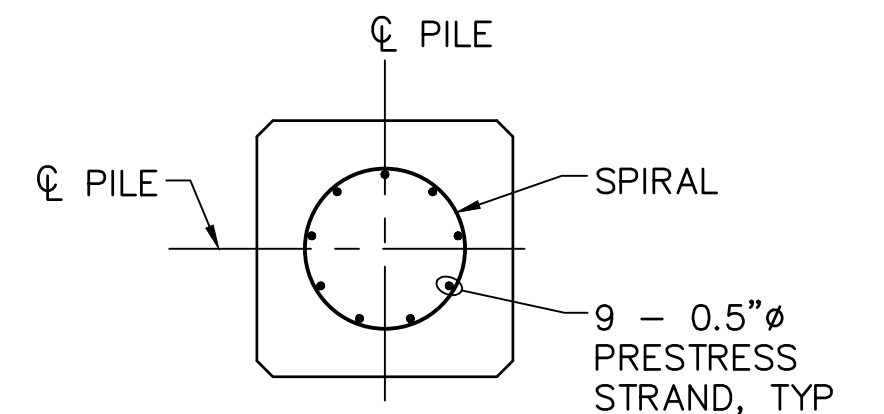
**1** HINGE DETAIL  
SCALE: NTS



**2** PILE MAKE-UP  
C-9 SCALE: 1"=1'-0"



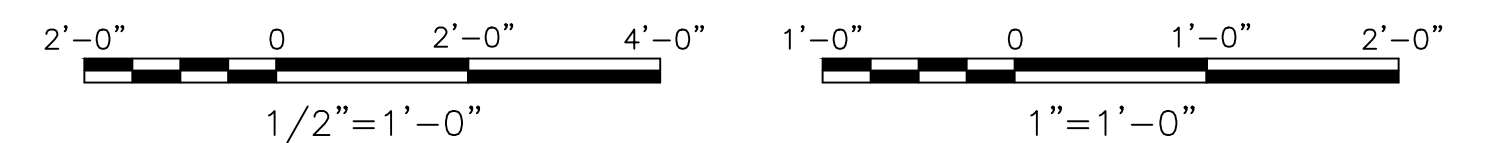
**C** PILE SECTION  
SCALE: 1"=1'-0"



**D** PILE SECTION  
SCALE: 1"=1'-0"

**NOTES:**

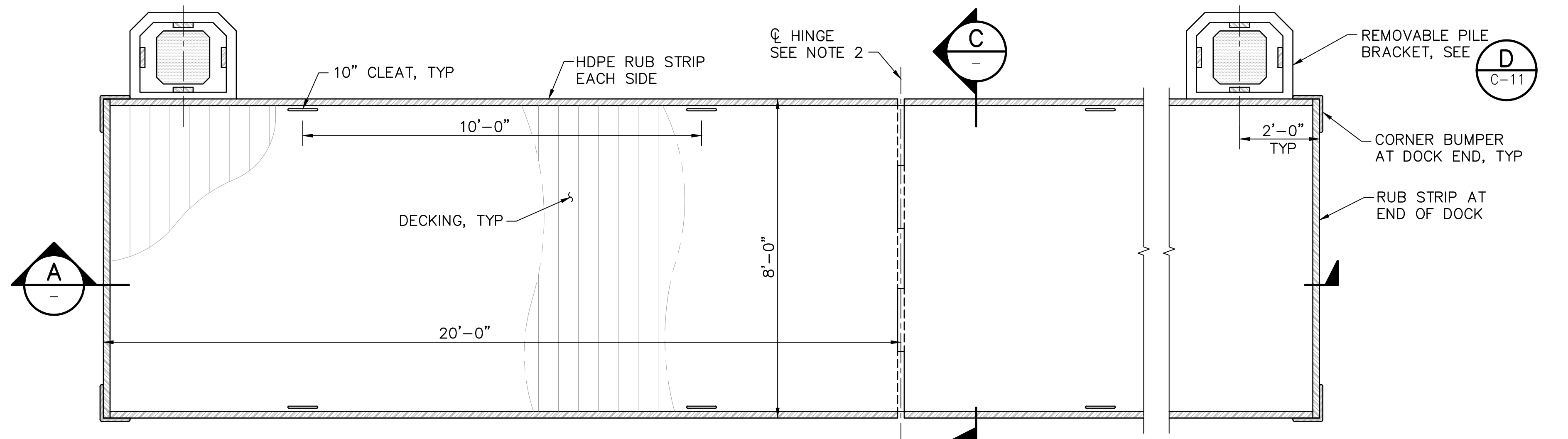
1. SQUARE CONE HEAD PILE CAP TO PROTECT FROM ROOSTING BIRDS. MARINE GRADE PVC WITH UV STABILIZERS.



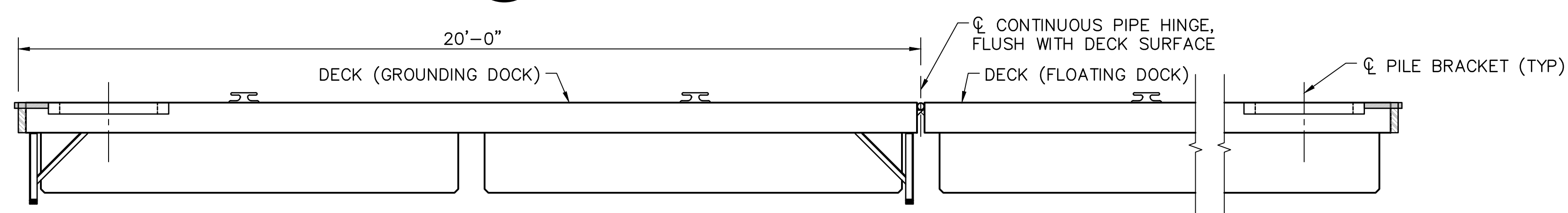
						 2185 N. CALIFORNIA BLVD, STE 500 WALNUT CREEK, CA 94596 925-944-5411	ENCINAL BOAT LAUNCH RAMP REFURBISHMENT DOCK DETAILS		DATE 05-08-2019
									SHEET 12 OF 18
									C-10
	REVISION	DESCRIPTION	BY	DATE					
						DSGN BP	DR TE	CHK	
						JOB NO. 9020	SUBMITTED BY	TITLE	



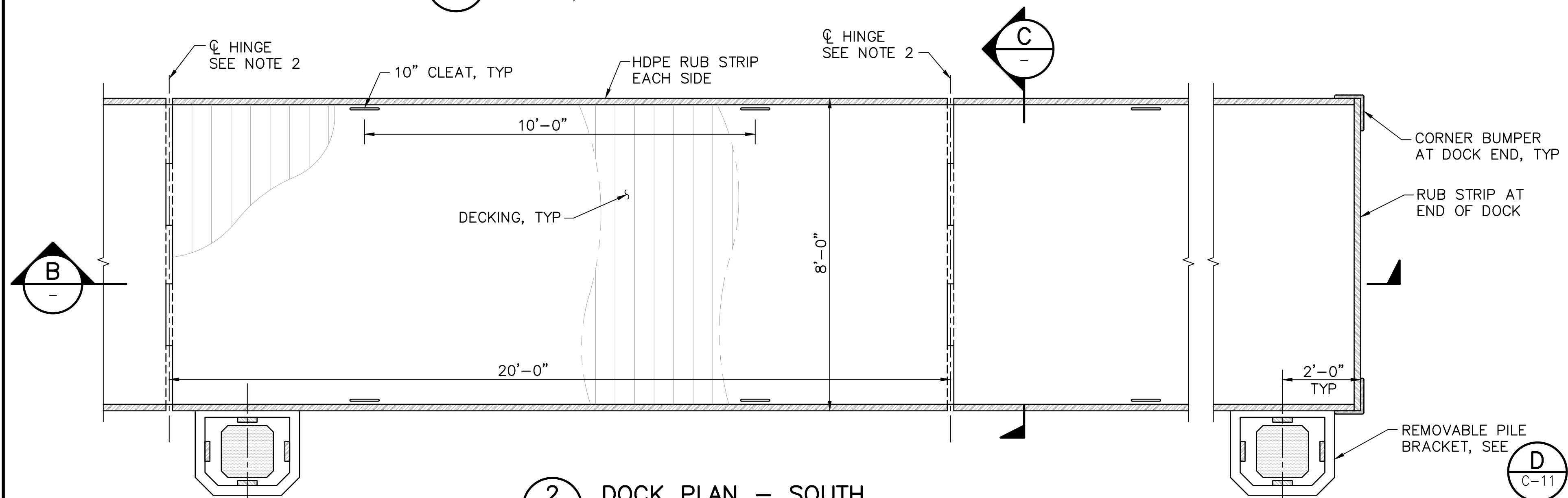
Q:\WC\9020 Encinal BLF\4\_CADD\9020\_C-11 DOCK FLOAT DETAILS.dwg 4/9/2018 1:22 PM



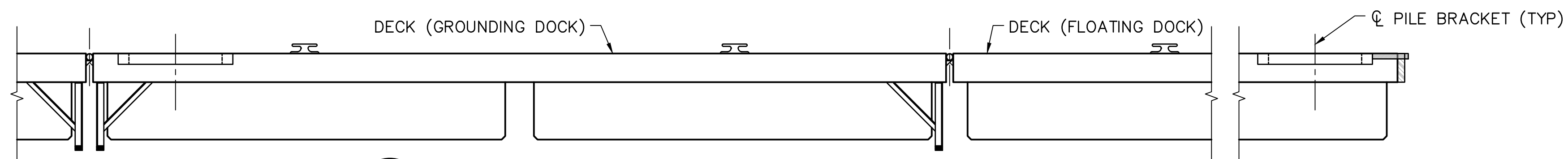
1 DOCK PLAN - NORTH  
SCALE: 1/2"=1'-0"



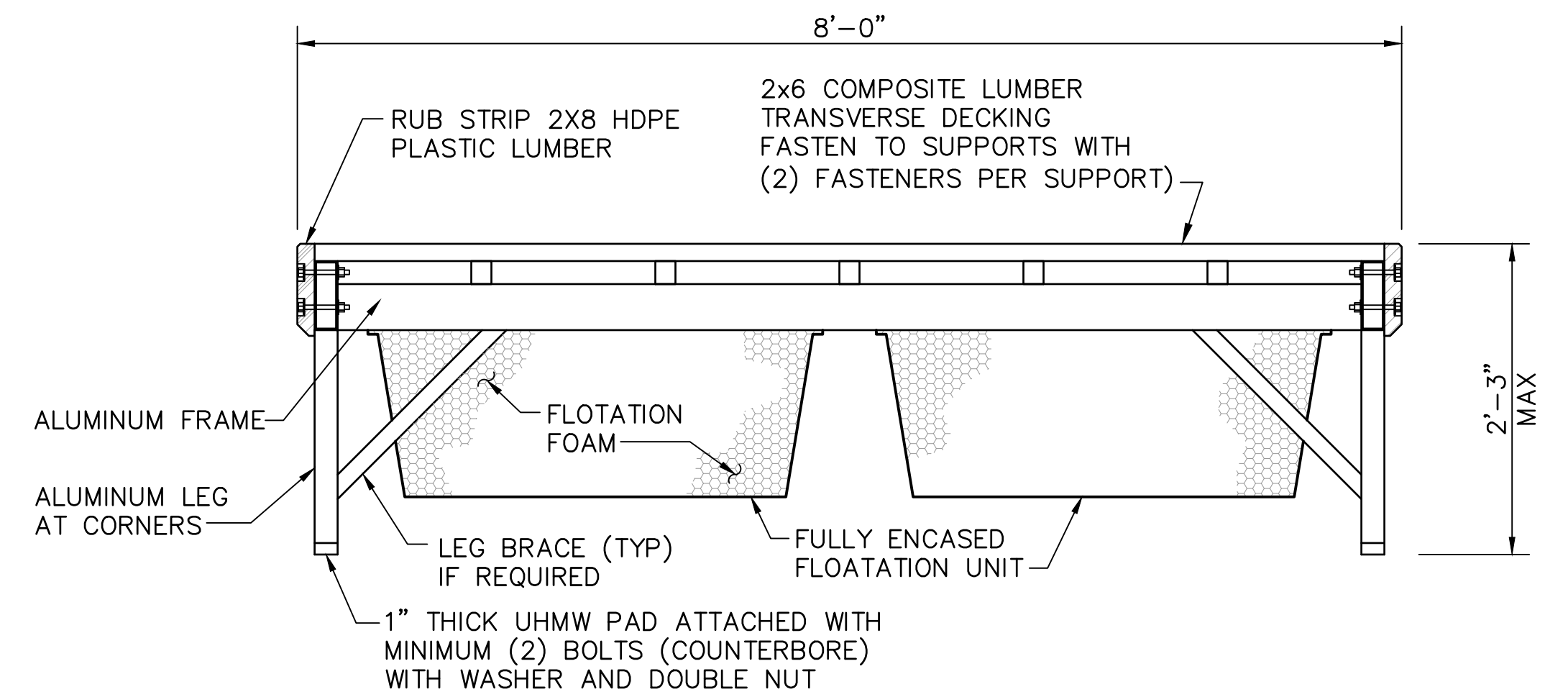
A DOCK LONGITUDINAL SECTION - NORTH  
SCALE: 1/2"=1'-0"



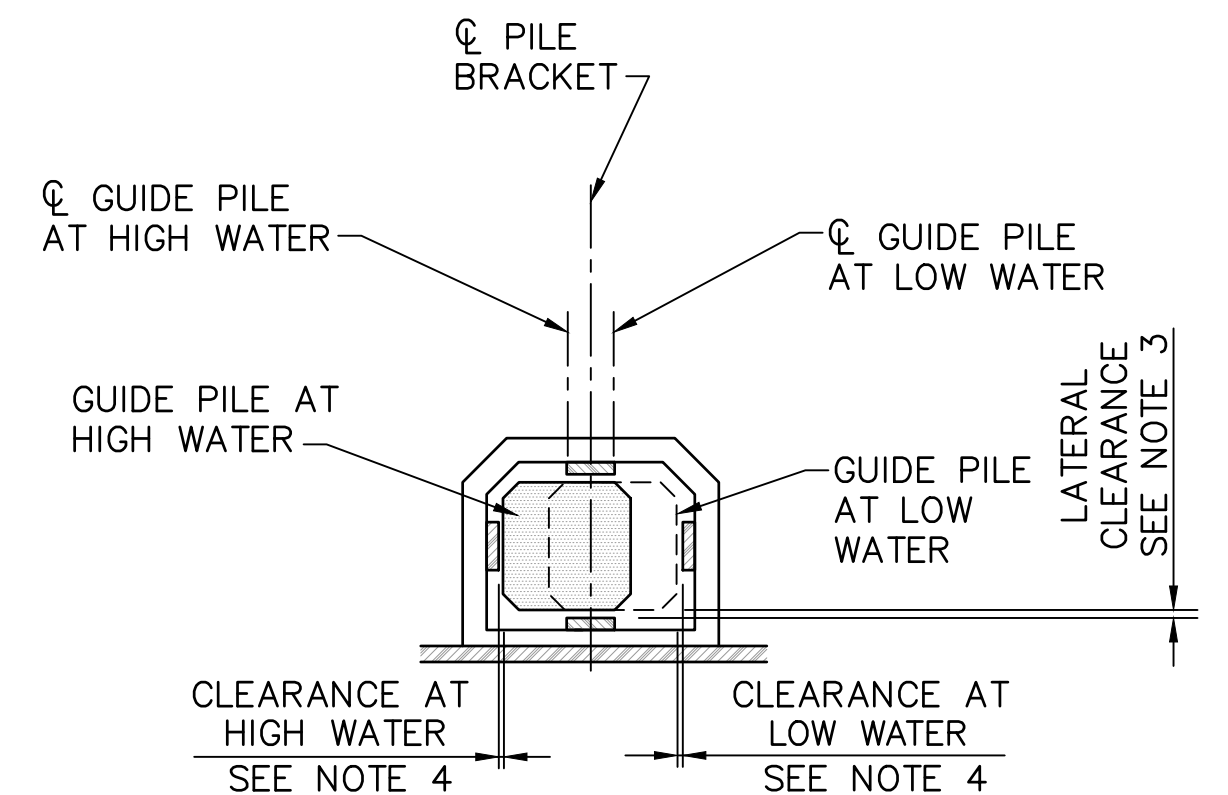
2 DOCK PLAN - SOUTH  
SCALE: 1/2"=1'-0"



B DOCK LONGITUDINAL SECTION - SOUTH  
SCALE: 1/2"=1'-0"



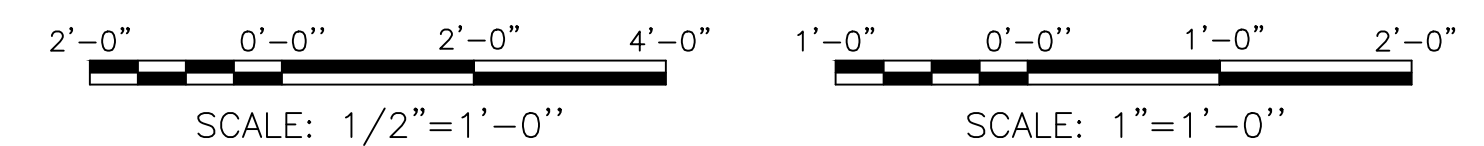
C DOCK CROSS SECTION  
SCALE: 1"=1'-0"



D TYPICAL PILE BRACKET  
SCALE: 1/2"=1'-0"

#### NOTES:

- CONTRACTOR SHALL DESIGN THE DOCKS TO PROVIDE THE REQUIRED FREEBOARD IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. SEE SPECIFICATIONS.
- HINGE LAYOUT IS SCHEMATIC ONLY.
- LATERAL CLEARANCE FOR GUIDE PILE RUB STRIP IS 1/2-INCH MINIMUM AND 1-INCH MAXIMUM.
- GUIDE PILE RUB STRIP CLEARANCE AT DESIGN HIGH WATER AND DESIGN LOW WATER IS 1/2-INCH MINIMUM AND 1-INCH MAXIMUM ACCORDING TO THE RELATIVE LOCATION OF THE GUIDE PILE AT EACH WATER SURFACE ELEVATION.
- UHMW GUIDE PILE RUB STRIP SHALL HAVE A MINIMUM THICKNESS OF 1-INCH AND PROVIDE A MINIMUM OF 6-INCHES CONTACT WITH THE GUIDE PILE AT HIGH AND LOW WATER ELEVATIONS.



2185 N. CALIFORNIA BLVD, STE 500  
WALNUT CREEK, CA 94596  
925-944-5411

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ENCINAL BOAT LAUNCH RAMP  
REFURBISHMENT  
DOCK FLOAT DETAILS

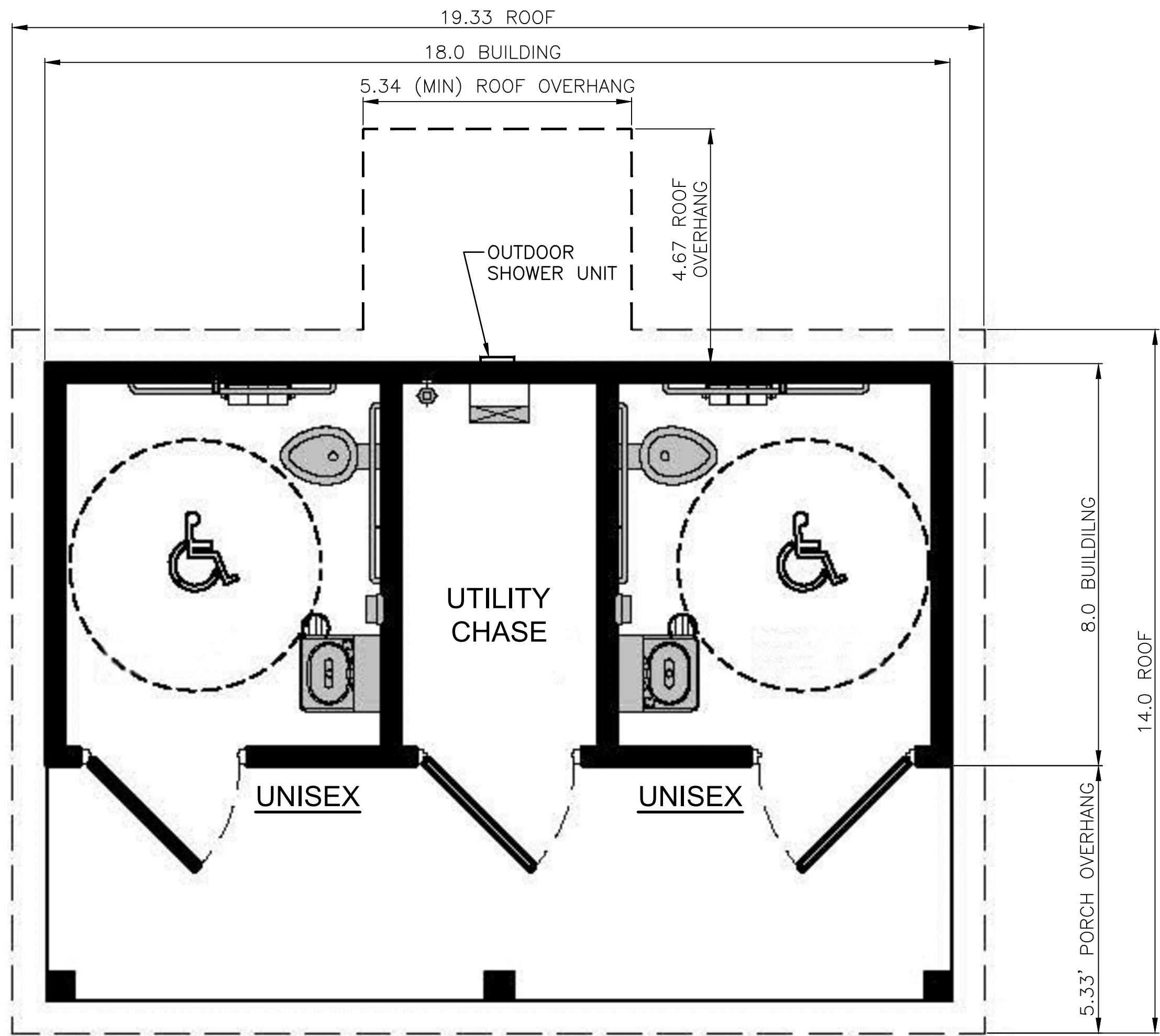
DATE 05-08-2019

SHEET 13 OF 18

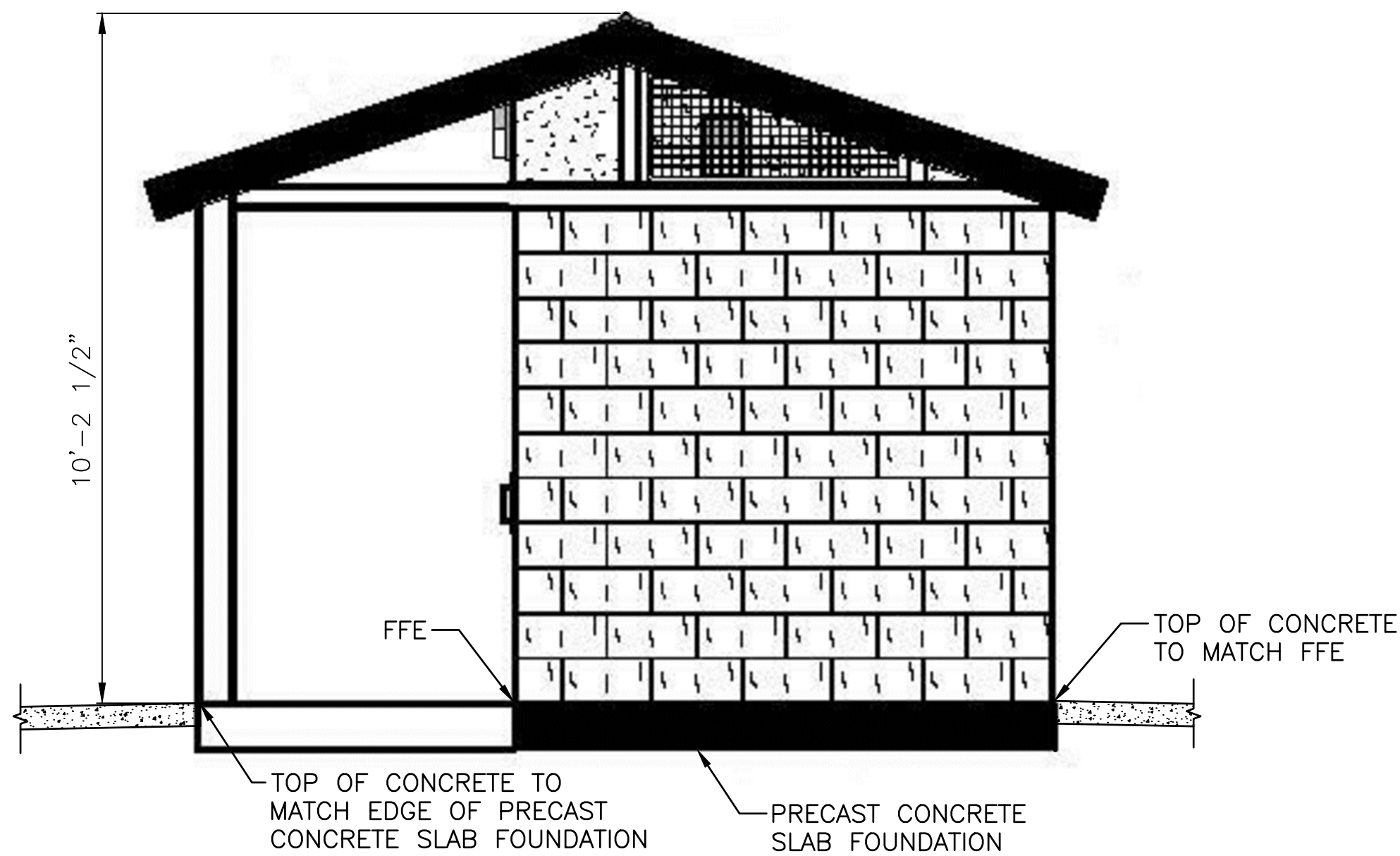
C-11



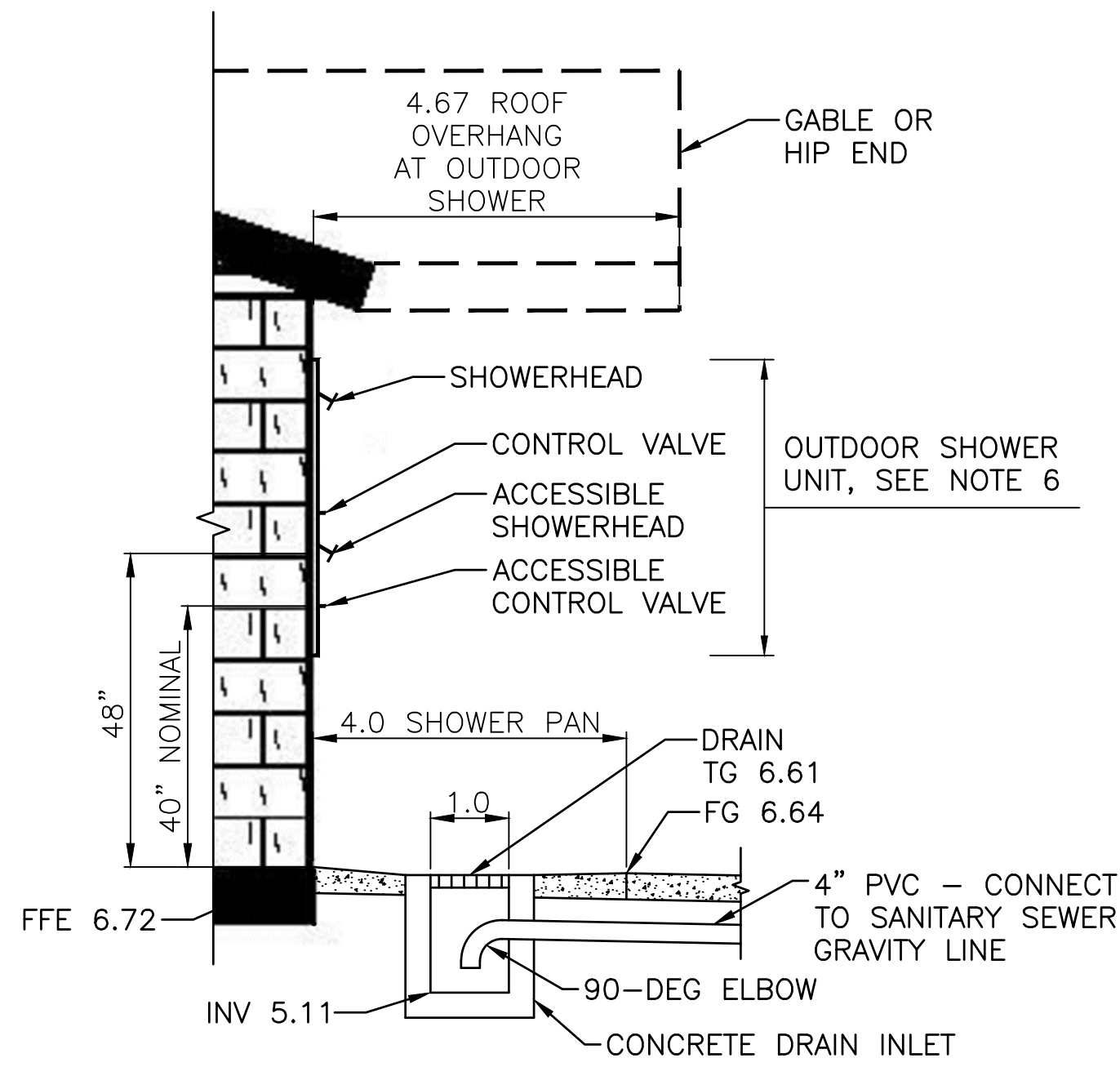
Q:\WC\9020 Encinal BLF\4\_CADD\9020\_C-20 RESTROOM.dwg 4/9/2018 1:22 PM



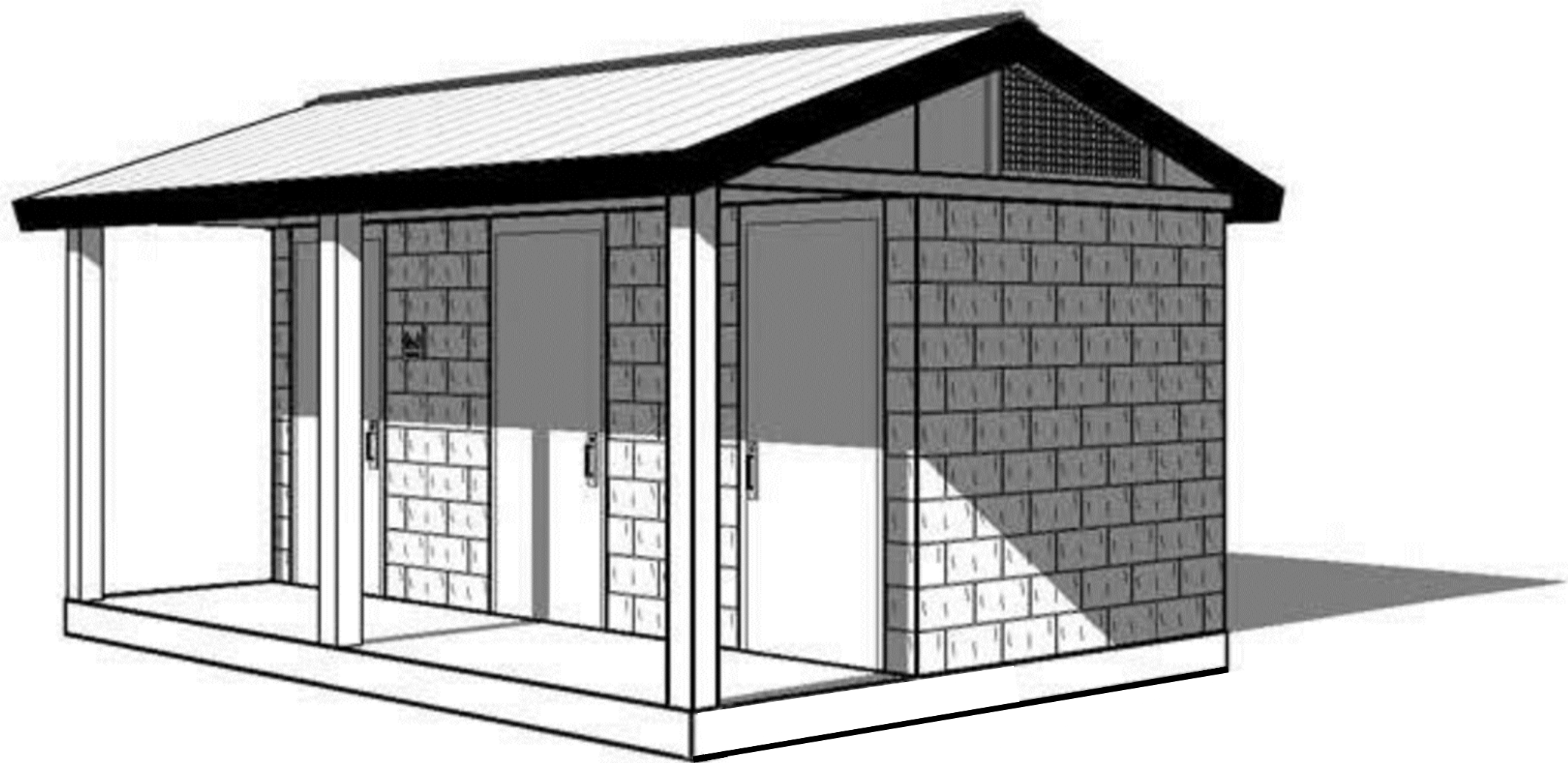
**A** FLOOR PLAN  
SCALE: 1/4"=1'-0"



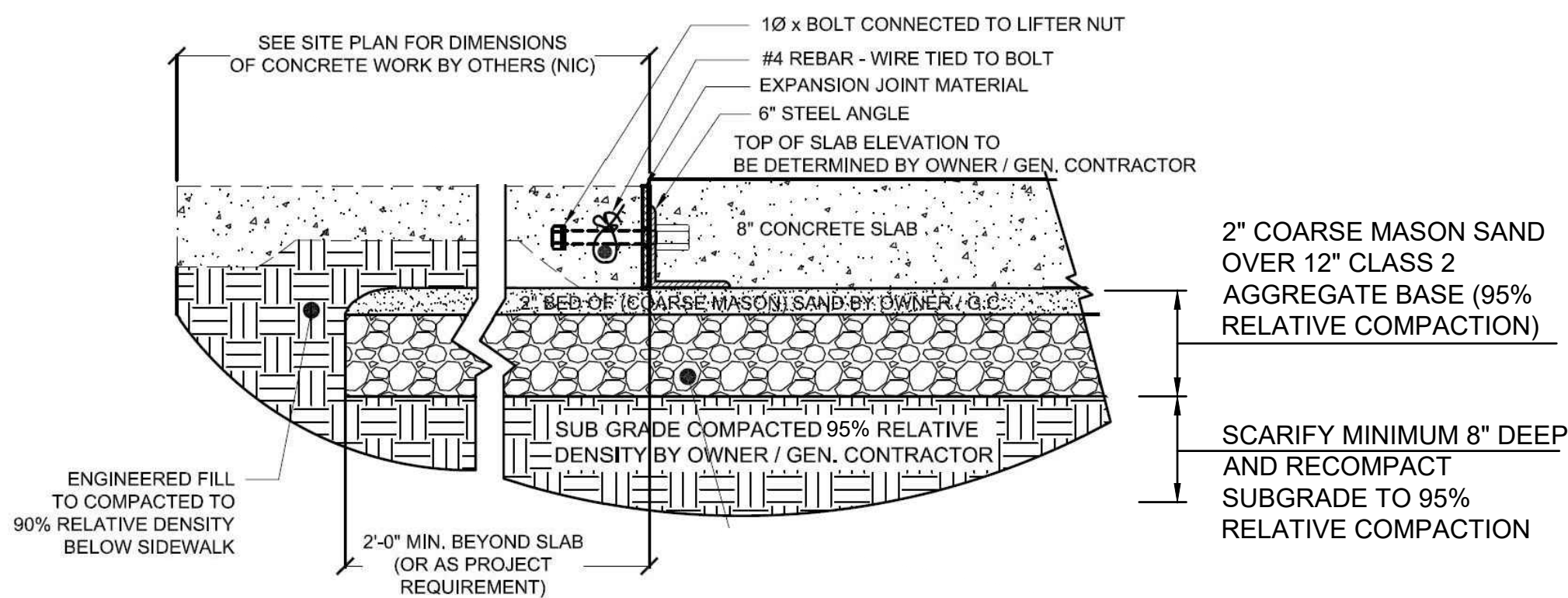
**B** SIDE ELEVATION  
SCALE: 1/4"=1'-0"



**C** SIDE ELEVATION AT OUTDOOR SHOWER  
SCALE: 1/4"=1'-0"



**1** PERSPECTIVE  
SCALE: NTS



**D** RESTROOM FOUNDATION  
SCALE: NTS

#### NOTES:

1. THE RESTROOM, ROOF OVERHANG, AND OUTDOOR SHOWER UNIT WILL BE CITY-FURNISHED AND INSTALLED BY THE CONTRACTOR.
2. SHOWER PAN, DRAIN, AND RAILING (SEE SHEET C-5) SHALL BE CONSTRUCTED BY THE CONTRACTOR.
3. RESTROOM IS MODULAR UNIT; UNIT SHOWN IS MODEL PS-022 CE, BY PUBLIC RESTROOM COMPANY, MINDEN, NV.
4. RESTROOM SHALL BE ADA-ACCESSIBLE PER CBC 11B-213.
5. PROVIDE ADA COMPLIANT DOOR SIGNAGE PER CBC 11B-216.8 AND 11B-703.7.2.6.3.
6. OUTDOOR SHOWER UNIT SHALL BE FURNISHED AND INSTALLED BY THE RESTROOM MANUFACTURER AS PART OF THE RESTROOM, AND SHALL BE ACCESSIBLE PER CBC 11B-608.5.2 AND 11B-608.6.
7. AGGREGATE BASE FOUNDATION SHALL BE COMPACTED USING VIBRATORY COMPACTION EQUIPMENT.
8. CONSTRUCT RESTROOM FOUNDATION AS SHOWN AND IN COORDINATION WITH CONCRETE WALK.

REVISION	DESCRIPTION	BY	DATE

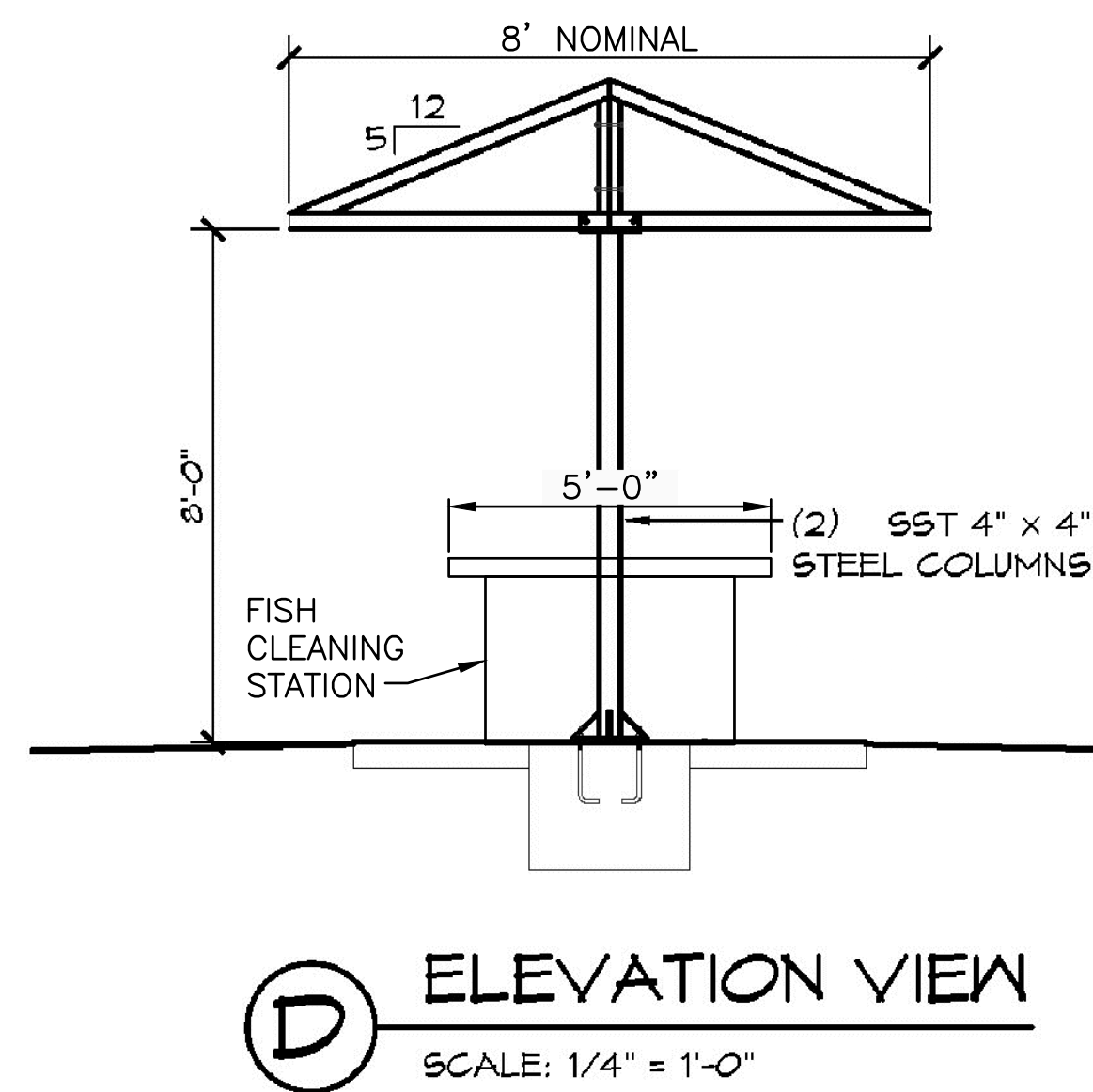
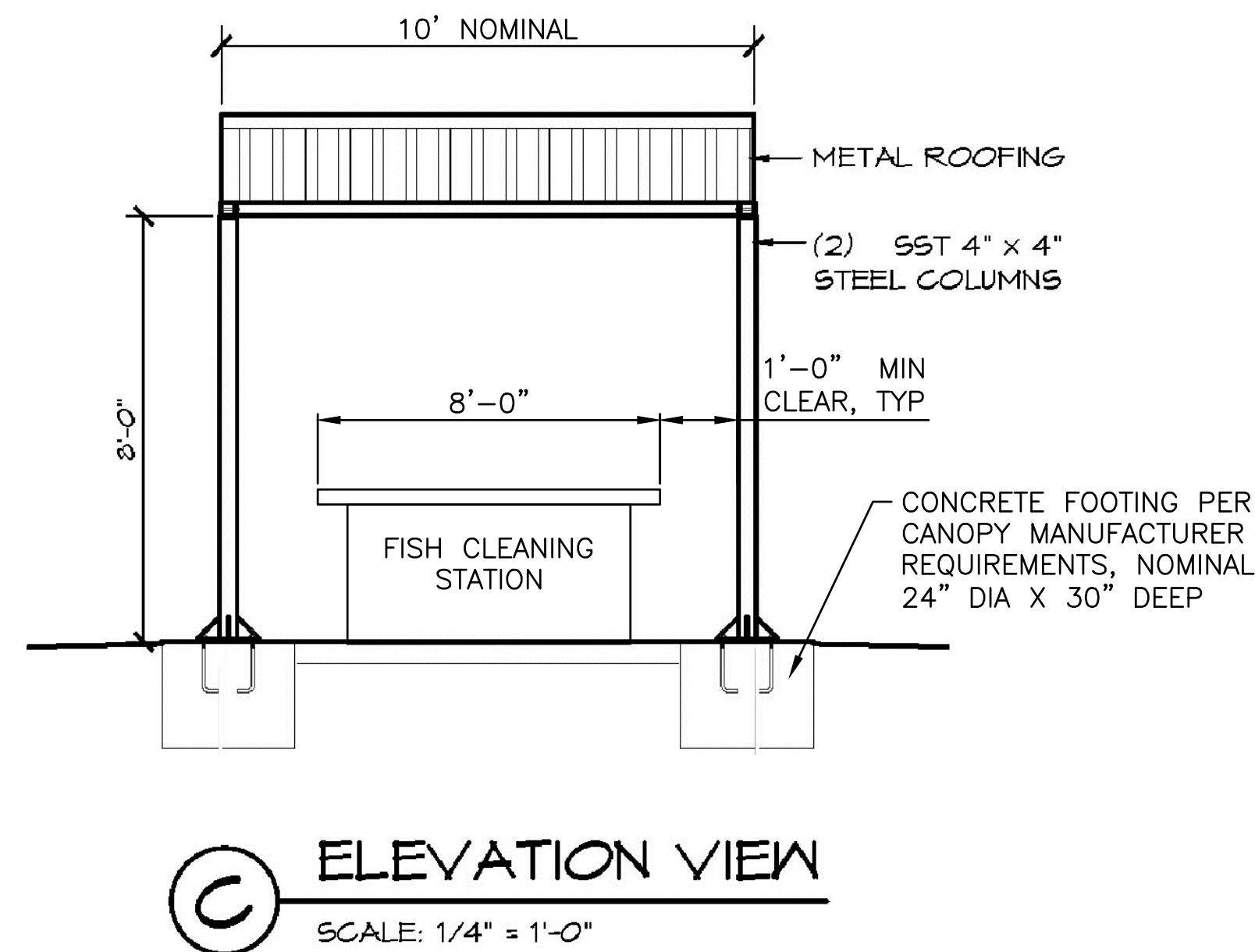
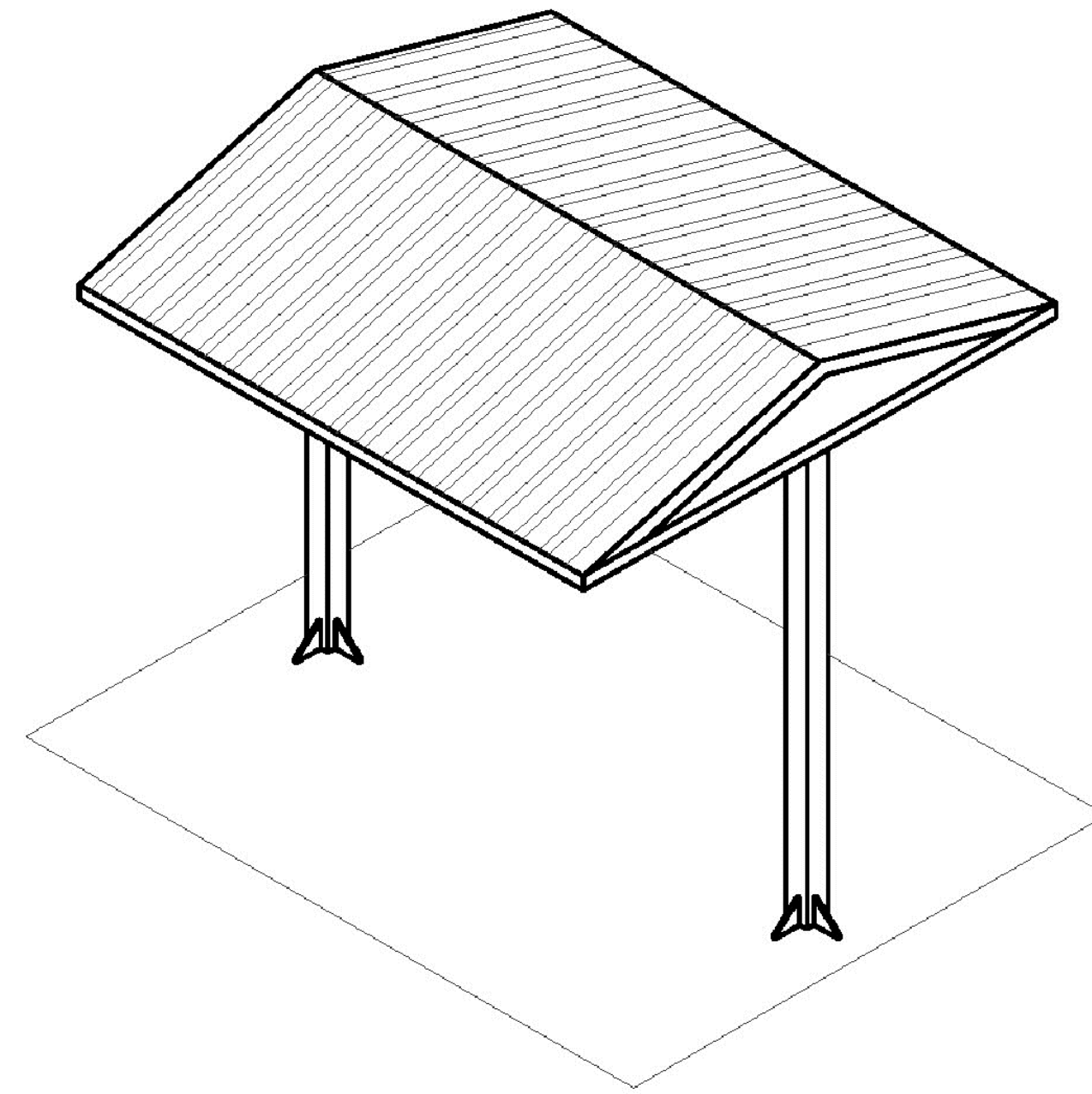
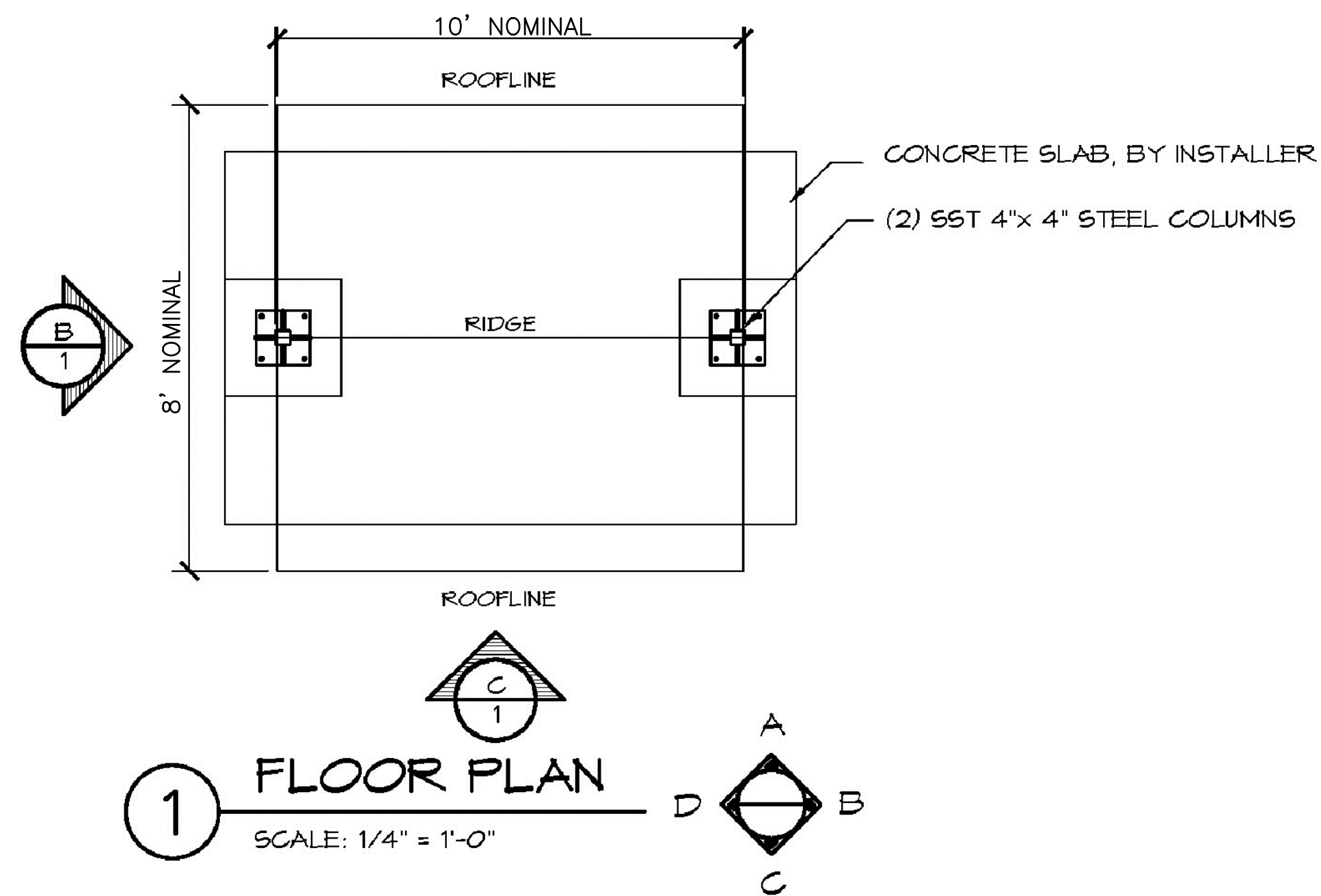


<b>mo</b> moffatt & nichol			2185 N. CALIFORNIA BLVD, STE 500 WALNUT CREEK, CA 94596 925-944-5411
DSGN	BP	DR	TE
JOB NO.	9020	SUBMITTED BY	CHK

ENCINAL BOAT LAUNCH RAMP REFURBISHMENT		DATE	REVISED 5/16/19
RESTROOM		SHEET	14 OF 18
		C-20	



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1 CANOPY (CITY-FURNISHED)  
C-5 SCALE: NTS

NOTES:

1. THE FISH CLEANING STATION AND CANOPY WILL BE CITY-FURNISHED AND INSTALLED BY THE CONTRACTOR. SHOP DRAWINGS FOR THE FISH CLEANING STATION AND CANOPY SHALL BE SUBMITTED BY THE CONTRACTOR IN COORDINATION WITH THE CITY OF ALAMEDA.
2. THE CONCRETE FOOTING FOR THE CANOPY SHALL BE CONSTRUCTED BY THE CONTRACTOR AS PART OF THE CONCRETE WALK. CANOPY FOOTING SHOWN IS SCHEMATIC ONLY; FINAL DIMENSIONS SHALL BE SHOWN ON THE CONTRACTOR-SUBMITTED SHOP DRAWINGS.
3. INSTALL CITY-FURNISHED FISH CLEANING STATION. MODEL BARRACUDA 6096 WITH 2HP MOTOR, BY QUALITY MACHINE & MANUFACTURING, DES MOINES, IOWA.
4. INSTALL CITY-FURNISHED 2-POST CANOPY WITH ALUMINUM ROOF TO THE NOMINAL DIMENSIONS SHOWN. ACCEPTABLE PRODUCT: STEELWORX TWO-POST GABLE BY COVERWORX RECREATIONAL ARCHITECTURE, OR APPROVED EQUAL.



2 CANOPY EXAMPLE  
SCALE: NTS



3 FISH CLEANING STATION (CITY-FURNISHED)  
C-5 SCALE: NTS

REVISION	DESCRIPTION	BY	DATE



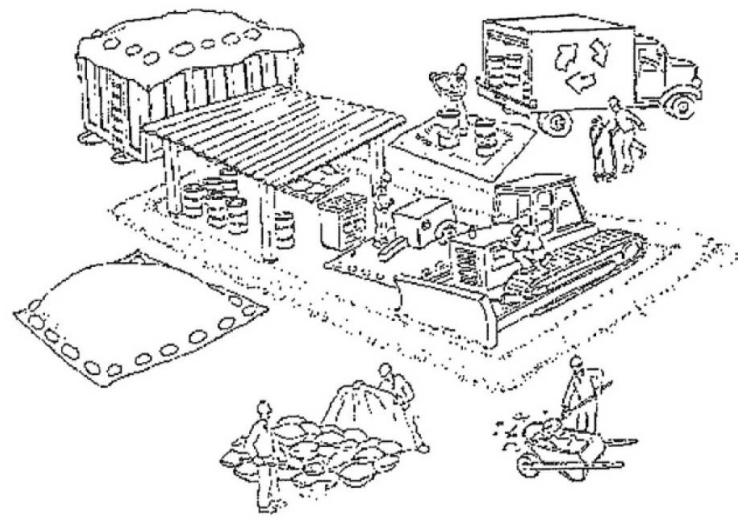
 2185 N. CALIFORNIA BLVD, STE 500 WALNUT CREEK, CA 94596 925-944-5411		
DSGN	BP	DR
JOB NO.	9020	TE
SUBMITTED BY		CHK
		TITLE

ENCINAL BOAT LAUNCH RAMP REFURBISHMENT  FISH CLEANING STATION	DATE	REVISED 5/16/19
	SHEET	15 OF 18
	C-21	



## Make sure your crews and subs do the job right!

Runoff from streets and other paved areas is a major source of pollution and damage to creeks and the San Francisco Bay. Construction activities can directly affect the health of creeks and the Bay unless contractors and crews plan ahead to keep dirt, debris, and other construction waste away from storm drains and local creeks. Following these guidelines and the project specifications will ensure your compliance with [CITY OF ALAMEDA](#) requirements.



## Non-hazardous materials management

- Sand, dirt, and similar materials must be stored at least 10 feet (3 meters) from catch basins. All construction material must be covered with a tarp and contained with a perimeter control during wet weather or when rain is forecasted or when not actively being used within 14 days.
- Use (but don't overuse) reclaimed water for dust control as needed.
- Sweep or vacuum streets and other paved areas daily. Do not wash down streets or work areas with water!
- Recycle all asphalt, concrete, and aggregate base material from demolition activities. Comply with [CITY OF ALAMEDA](#) Ordinances for recycling construction materials, wood, gyp board, pipe, etc.
- Check dumpsters regularly for leaks and to make sure they are not overfilled. Repair or replace leaking dumpsters promptly.
- Cover all dumpsters with a tarp at the end of every work day or during wet weather.

- Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state, and federal regulations.
- Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecasted.
- Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecasted within 24 hours.
- Be sure to arrange for appropriate disposal of all hazardous wastes.

- Keep a stockpile of spill cleanup materials (rags, absorbents, etc.) available at the construction site at all times.
- When spills or leaks occur, contain them immediately and be particularly careful to prevent leaks and spills from reaching the gutter, street, or storm drain. Never wash spilled material into a gutter, street, storm drain, or creek!
- Dispose of all containment and cleanup materials properly.
- Report any hazardous materials spills immediately! Dial 911

### Construction Entrances and Perimeter

- Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking.

- Inspect vehicles and equipment for leaks frequently. Use drip pans to catch leaks until repairs are made; repair leaks promptly.
- Fuel and maintain vehicles on site only in a bermed area or over a drip pan that is big enough to prevent runoff.
- If you must clean vehicles or equipment on site, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or creeks.
- Do not clean vehicles or equipment on-site using soaps, solvents, degreasers, steam cleaning equipment, etc.

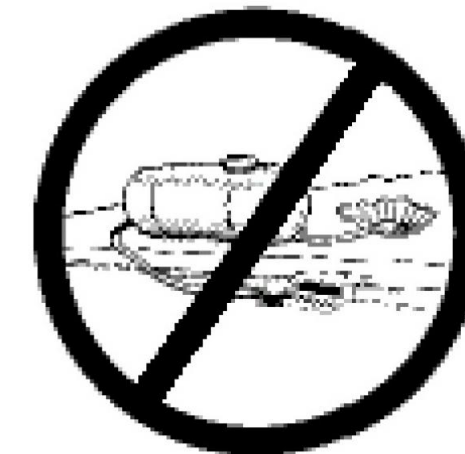


- Keep excavated soil on the site where it will not collect in the street.
- Transfer to dump trucks should take place on the site, not in the street.
- Use fiber rolls, silt fences, or other control measures to minimize the flow of silt off the site.



- If you suspect contamination (from site history, discoloration, odor, texture, abandoned underground tanks or pipes, or buried debris), call the Engineer for help in determining what should be done, and manage disposal of contaminated soil according to their instructions.

- Effectively manage all run-on, all runoff within the site, and all runoff that discharges from the site. Run-on from off site shall be directed away from all disturbed areas or shall collectively be in compliance.
- Reuse water for dust control, irrigation, or another on-site purpose to the greatest extent possible.



- Always completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or sand/gravel bags to keep slurry out of the storm drain system.
- **Contractors shall vacuum all** saw-cut slurry and pick up all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- If saw cut slurry enters a catch basin, clean it up immediately.

- Always cover storm drain inlets and manholes when paving or applying seal coat, tack coat, slurry seal, or fog seal.
- Protect gutters, ditches, and drainage courses with sand/gravel bags, or earthen berms.
- Do not sweep or wash down excess sand from sand sealing into gutters, storm drains, or creeks. Collect sand and return it to the stockpile, or dispose of it as trash.
- Do not use water to wash down fresh asphalt concrete pavement.

- Store concrete, grout, and mortar under cover, on pallets, and away from drainage areas. These materials must never reach a storm drain.
- Wash out concrete equipment/trucks off-site or into contained washout areas that will not allow discharge of wash water onto the underlying soil or onto the surrounding areas.



- Never rinse paint brushes or materials in a gutter or street!
- Paint out excess water-based paint before rinsing brushes, rollers, or containers in a sink.



- ✓ Paint out excess oil-based paint before cleaning brushes in thinner.
  - ✓ Filter paint thinners and solvents for reuse whenever possible.
- Dispose of oil-based paint sludge and unusable thinner as hazardous waste.

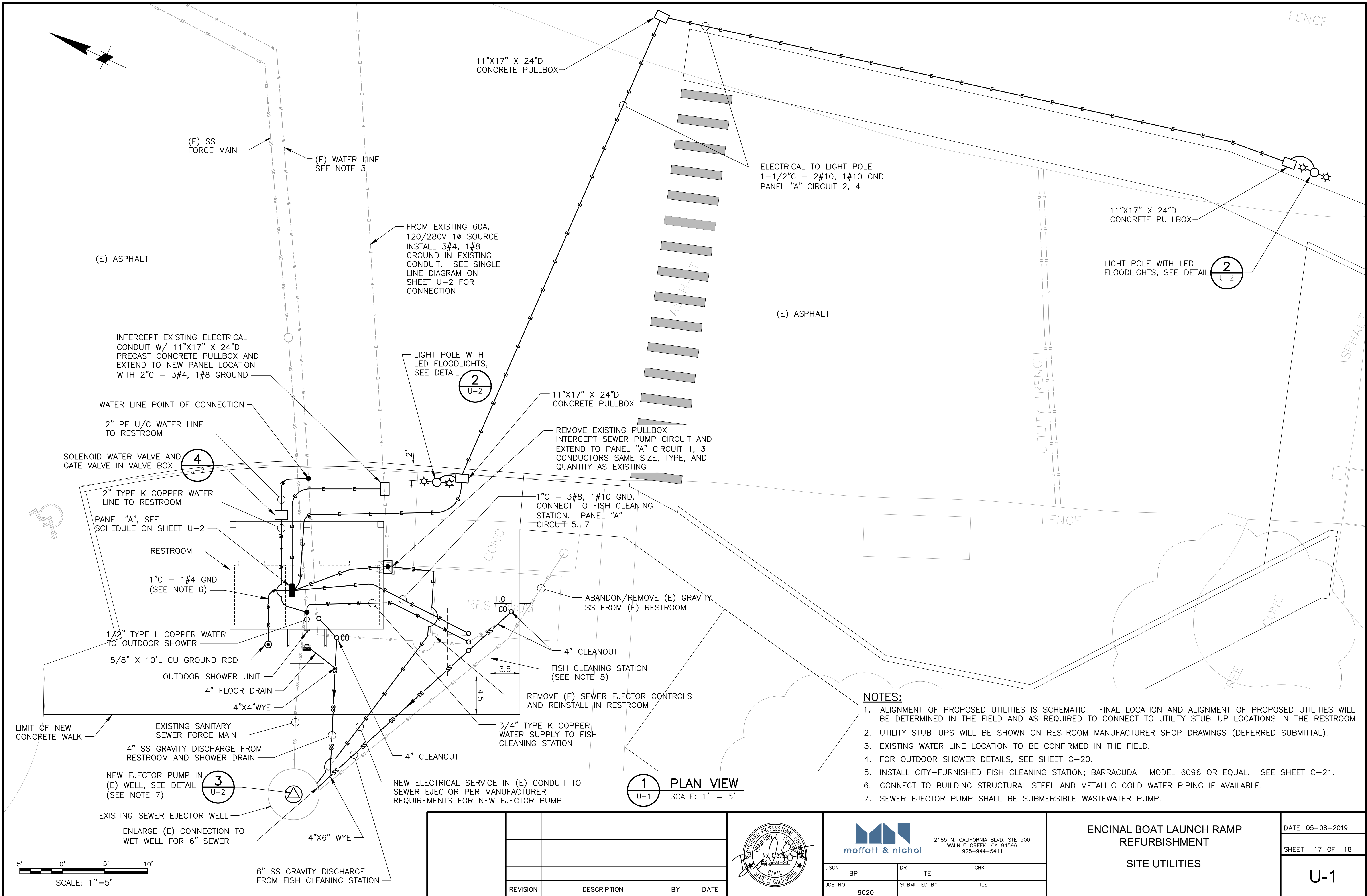
- Contain, cover, and store on pallets all stockpiled landscape materials (mulch, compost, fertilizers, etc.) during wet weather or when rain is forecasted or when not actively being used within 14 days.
- Discontinue the application of any erodible landscape material within 2 days of forecasted rain and during wet weather.

For references and more detailed information:  
[www.cleanwaterprogram.org](http://www.cleanwaterprogram.org)  
[www.cabmphandbooks.com](http://www.cabmphandbooks.com)

						 <div>2185 N. CALIFORNIA BLVD, STE 500 WALNUT CREEK, CA 94596 925-944-5411</div>	ENCINAL BOAT LAUNCH RAMP REFURBISHMENT  POLLUTION PREVENTION		DATE 05-08-2019
									SHEET 16 OF 18
									C-22
	REVISION	DESCRIPTION	BY	DATE					




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- NOTES:**
1. ALIGNMENT OF PROPOSED UTILITIES IS SCHEMATIC. FINAL LOCATION AND ALIGNMENT OF PROPOSED UTILITIES WILL BE DETERMINED IN THE FIELD AND AS REQUIRED TO CONNECT TO UTILITY STUB-UP LOCATIONS IN THE RESTROOM.
  2. UTILITY STUB-UPS WILL BE SHOWN ON RESTROOM MANUFACTURER SHOP DRAWINGS (DEFERRED SUBMITTAL).
  3. EXISTING WATER LINE LOCATION TO BE CONFIRMED IN THE FIELD.
  4. FOR OUTDOOR SHOWER DETAILS, SEE SHEET C-20.
  5. INSTALL CITY-FURNISHED FISH CLEANING STATION; BARRACUDA I MODEL 6096 OR EQUAL. SEE SHEET C-21.
  6. CONNECT TO BUILDING STRUCTURAL STEEL AND METALLIC COLD WATER PIPING IF AVAILABLE.
  7. SEWER EJECTOR PUMP SHALL BE SUBMERSIBLE WASTEWATER PUMP.

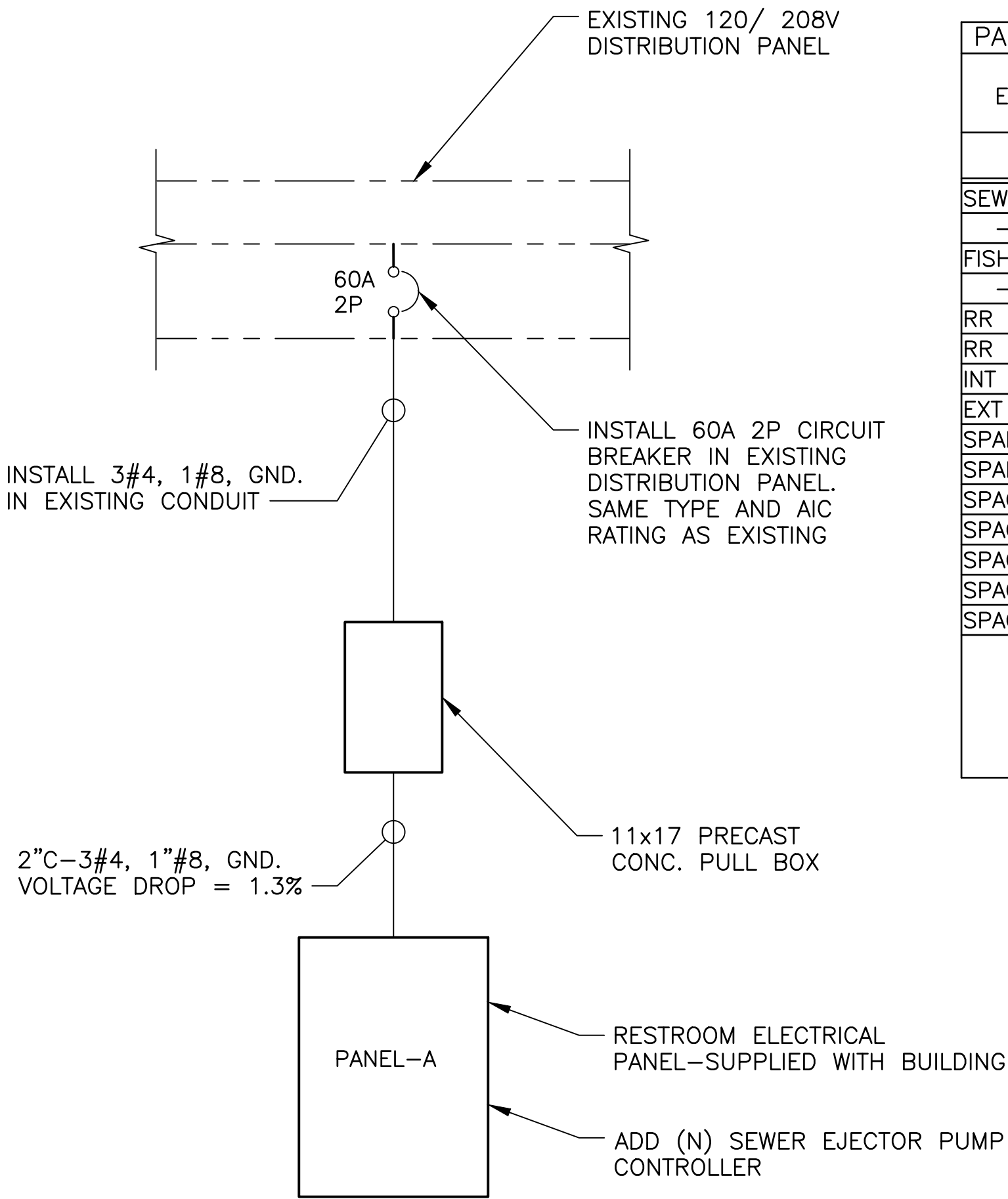
REVISION	DESCRIPTION	BY	DATE



 2185 N. CALIFORNIA BLVD, STE 500 WALNUT CREEK, CA 94596 925-944-5411	
DSGN BP	DR TE
JOB NO. 9020	CHK SUBMITTED BY TITLE

ENCINAL BOAT LAUNCH RAMP REFURBISHMENT		DATE 05-08-2019
SITE UTILITIES		SHEET 17 OF 18
U-1		





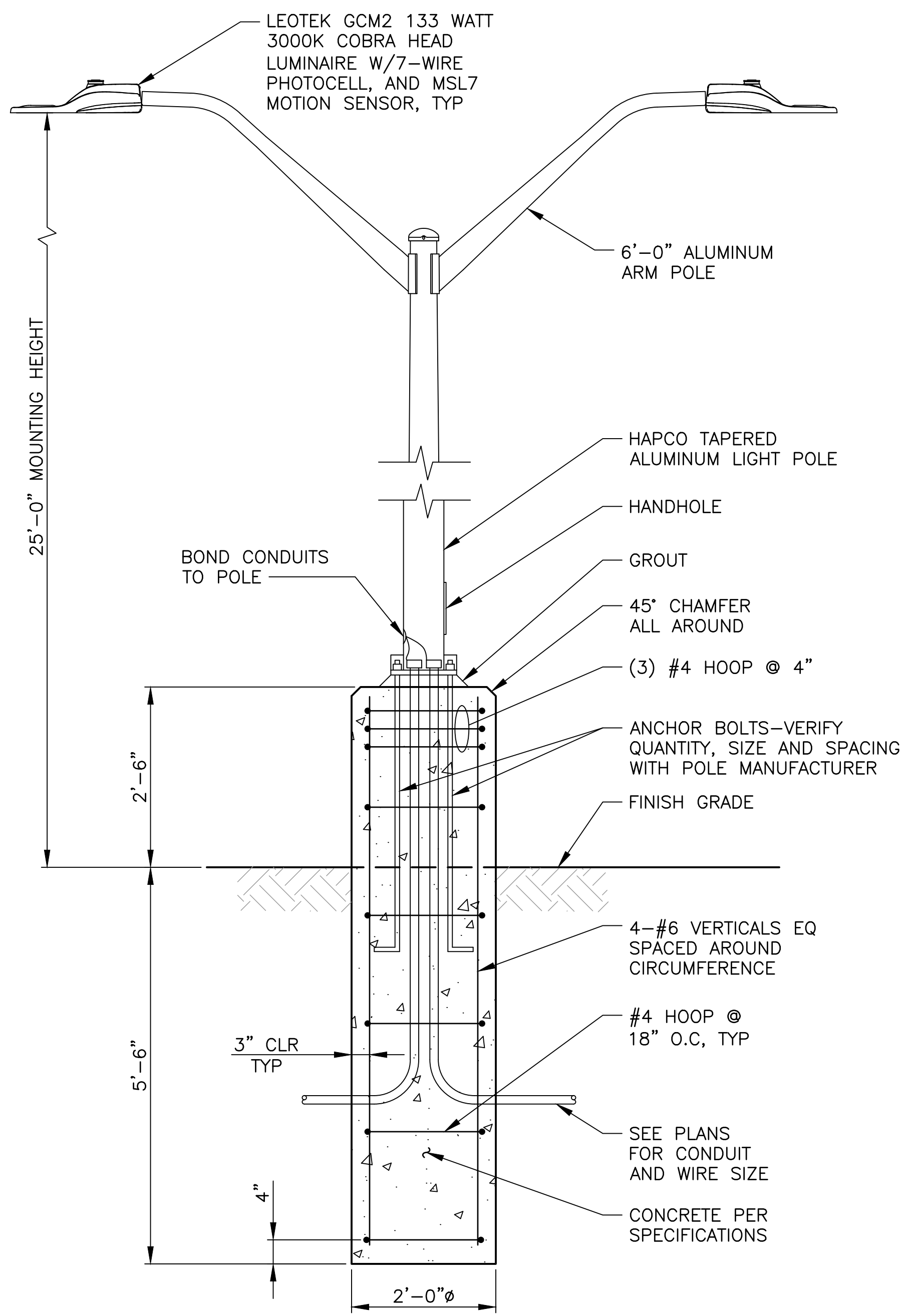
PANEL: A

LOCATION : RESTROOM BUILDING  
ENCLOSURE : NEMA 1  
MOUNTING : SURFACE

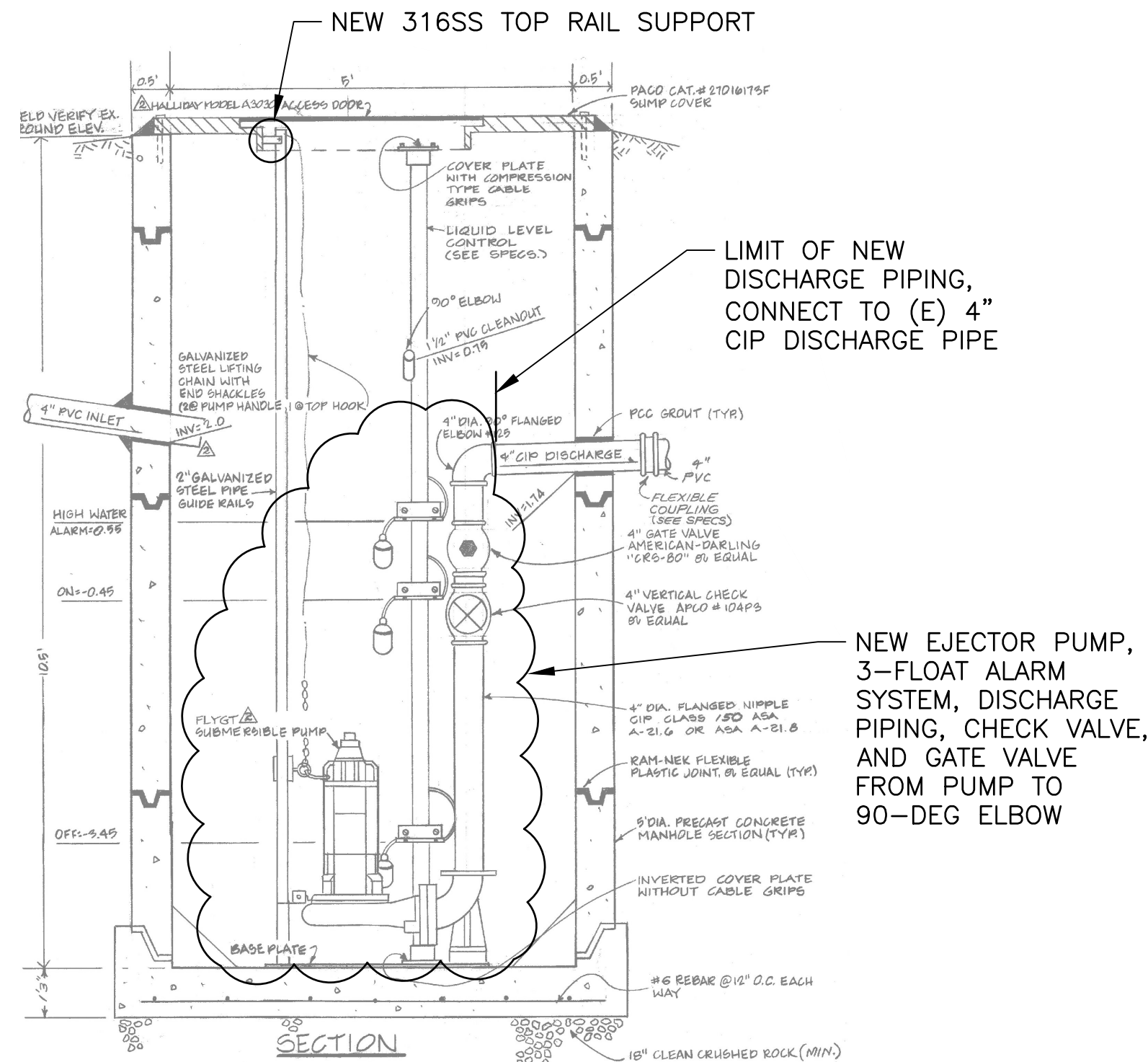
VOLTAGE/PHASE : 280/120V 1Ø 3W  
BUS AMPS : 100A  
MAIN BREAKER : 60A 2P

FED FROM : EXISTING SOURCE  
MINIMUM BUS BRACING : 22 KAIC

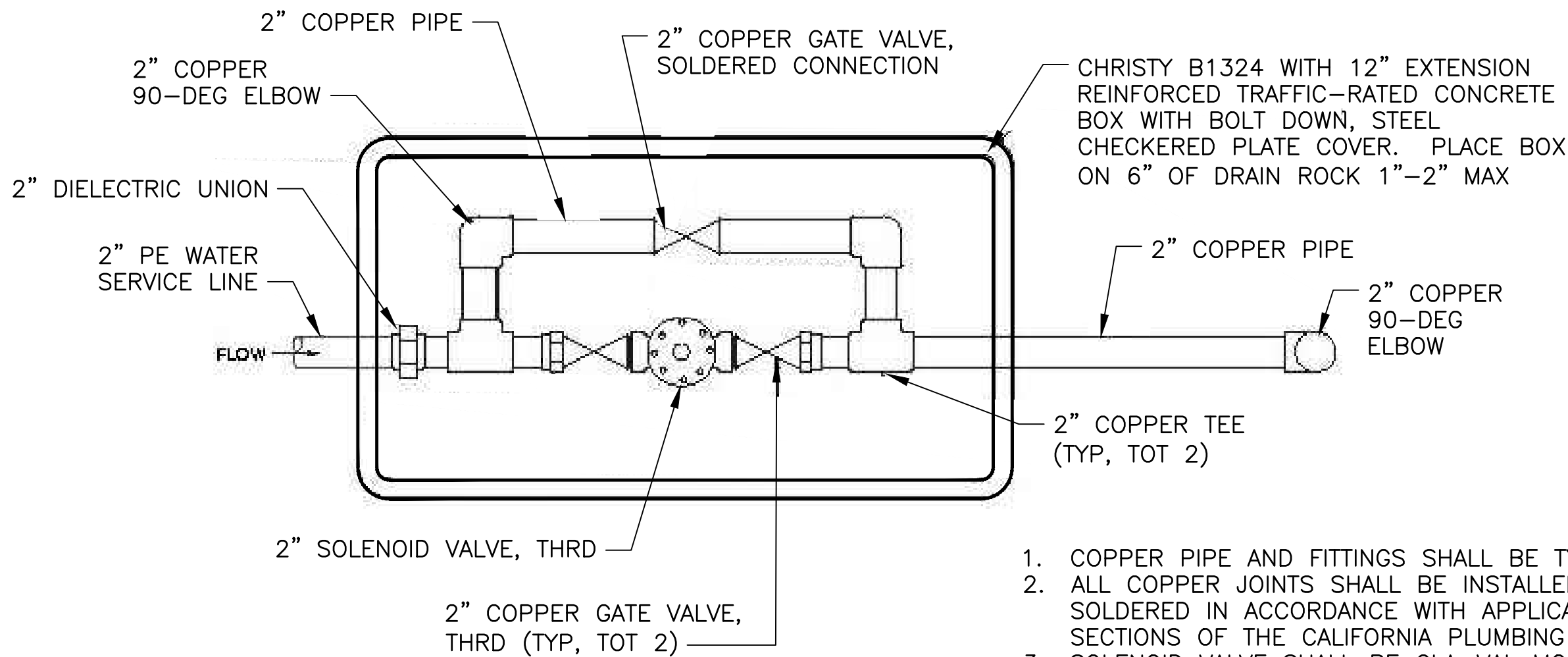
LOADS	SEE NOTE	LTG	OUTLETS REC	MISC	VOLT-AMPS A B		CKT	BKR/ POLE	A B C	BKR/ POLE	CKT	VOLT-AMPS A B		MISC	OUTLETS REC	LTG	SEE NOTE	LOADS
SEWER PUMP				1	828		1	15/2	*--	15/2	2	270					4	LAUNCH RAMP LIGHTS
—						828	3	—	---	—	4		270					—
FISH CLEANING STATION				1	2500		5	15/2	*--	15/2	6	—						SPARE
—						2500	7	—	---	—	8	—						—
RR INTERIOR LIGHTS		3			100		9	15/1	*--	15/1	10	150		1				IRRIGATION CONTROL
RR EXTERIOR LIGHTS		4				100	11	15/1	---	15/1	12	—						SPARE
INT GFI MAINT OUTLET			1		500		13	20/1	*--	20/1	14	800		1				HAND DRYER
EXT GFI MAINT OUTLET			1		500		15	20/1	---	20/1	16		800	1				HAND DRYER
SPARE					—		17	20/1	*--	20/1	18	—						SPARE
SPARE					—		19	20/1	---	20/1	20		—					SPARE
SPACE							21	—	*--	—	22							SPACE
SPACE							23	—	---	—	24							SPACE
SPACE							25	—	*--	—	26							SPACE
SPACE							27	—	---	—	28							SPACE
SPACE							29	—	*--	—	30							SPACE
TOTAL ØA = 5,148 VOLT-AMPS TOTAL ØB = 4,998 VOLT-AMPS LCL = 1,490 VOLT-AMPS TOTAL = 11,636 VA @ 280V, 3Ø = 32.3 AMPS																		



1 SINGLE LINE DIAGRAM  
SCALE: NOT TO SCALE



3 EXISTING SEWER EJECTOR  
SCALE: NTS



4 SOLENOID VALVE  
SCALE: NTS

1. COPPER PIPE AND FITTINGS SHALL BE TYPE K.
2. ALL COPPER JOINTS SHALL BE INSTALLED AND SOLDERED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE CALIFORNIA PLUMBING CODE.
3. SOLENOID VALVE SHALL BE CLA-VAL MODEL 136-01 BRONZE, OR APPROVED EQUAL.
4. SOLENOID VALVE SHALL BE NORMALLY OPEN (ENERGIZED TO CLOSE).
5. SOLENOID VALVE SHALL CLOSE UPON HIGH WATER ALARM AT SEWER EJECTOR PUMP WET WELL.

2 LIGHT POLE DETAIL  
SCALE: NOT TO SCALE

REVISION	DESCRIPTION	BY	DATE



moftatt & nichol		
2185 N. CALIFORNIA BLVD, STE 500 WALNUT CREEK, CA 94596 925-944-5411		
DSGN	BP	DR PH
JOB NO.	9020	SUBMITTED BY
		TITLE

ENCINAL BOAT LAUNCH RAMP REFURBISHMENT		DATE 05-08-2019
ELECTRICAL SINGLE LINE DIAGRAM AND SCHEDULES		SHEET 18 OF 18
		U-2