

CITY OF SOLANA BEACH FLETCHER COVE IMPROVEMENTS BID NO. 2025-05

STANDARD REQUIREMENTS

1. ALL WORK, UNLESS OTHERWISE SPECIFIED, SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION AND SUPPLEMENTS OF THE "STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION", SAN DIEGO REGIONAL STANDARD DRAWINGS AND CITY OF SOLANA BEACH ENGINEERING CONSTRUCTION STANDARDS.

2. WORK ZONE TRAFFIC CONTROLS THROUGHOUT PERMIT CONSTRUCTION SHALL CONFORM TO THE LATEST CALIFORNIA DEPARTMENT OF TRANSPORTATION, "MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES".

3. PARKING RESTRICTIONS, AS APPROVED BY CITY ENGINEER, SHALL REQUIRE A MINIMUM OF 48 HOURS NOTICE, EXCLUDING HOLIDAYS AND WEEKENDS.

4. TRAFFIC LANE RESTRICTIONS AND DETOURS MAY OCCUR ONLY BETWEEN THE HOURS OF 9:00 A.M. AND 3:00 P.M., AND ARE SUBJECT TO REVIEW OF THE CITY ENGINEER. EXCAVATIONS SHALL BE BACKFILLED OR OTHER ADEQUATE MEANS PROVIDED TO MAINTAIN EXISTING TRAFFIC LANES OTHER THAN DURING THESE HOURS.

5. ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON ALL MAJOR AND SECONDARY HIGHWAYS.

6. A MINIMUM 4' WIDE PEDESTRIAN WALKWAY, CLEAR OF ANY OBSTRUCTION SHALL BE MAINTAINED WHEREVER SIDEWALKS EXISTS AND MUST BE MAINTAINED WITH SAFETY FENCING OR BARRIER SEPARATION FROM ADJACENT EXCAVATION WHEN LEFT UNMANNED.

7. ANY DAMAGE TO TRAFFIC CONTROL EQUIPMENT, TRAFFIC STRIPING OR RAISED PAVEMENT MARKERS SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE INSPECTOR. THE REPLACEMENT OF DAMAGED TRAFFIC EQUIPMENT, STRIPING OR RAISED PAVEMENT MARKERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND BE DONE AS SOON AS PRACTICAL AFTER COMPLETION OF WORK.

8. A.C. PAVEMENT SHALL BE COLD PLANED ONE FOOT BEYOND THE EDGE OF THE TRENCH PER SDRSD G-24A TYPE B. CONCRETE SECTIONS TO BE REPLACED SCORELINE TO SCORELINE.

9. PERMANENT PAVEMENT REPAIRS SHALL BE MADE WITHIN 25 DAYS AFTER EXCAVATION WORK IS COMPLETED. INSPECTOR'S APPROVAL IS REQUIRED BEFORE PERMANENT REPAIRS ARE MADE.

10. WHEN PERMITTEE TUNNELS UNDER EXISTING CURBS, GUTTERS AND SIDEWALKS, THE EXCAVATED TRENCH SHALL BE BACKFILLED WITH CEMENT GROUT AS PRESCRIBED IN THE STANDARD SPECIFICATIONS.

11. WHEN COMPACTION TESTS ARE REQUIRED, ALL COSTS ARE TO BE BORNE BY THE PERMITTEE.

12. A ONE-SACK CEMENT AND SLURRY MIXTURE MAY BE REQUIRED FOR COMPACTION WHERE EXCAVATION INTERFERES WITH TRAFFIC FLOW OR WHERE WORK IS WITHIN THE ROADWAY PORTION OF AN INSPECTION.

13. TREE TRUNKS SHALL BE CUT TO WITHIN 4" OF CURB HEIGHT AND SAID TRUNK AND ALL ROOTS SHALL BE GROUND TO A DEPTH OF 18" BELOW GRADE BY A MECHANICAL STUMP GRINDER TO THE SATISFACTION OF THE PUBLIC WORKS SUPERINTENDENT. ALL WOOD CHIPS SHALL BE REMOVED AND THE HOLE FILLED AND COMPACTED WITH TOPSOIL.

STORM DRAIN MARKERS:

1. ALL NEW OR REPLACED STORM DRAIN INLETS SHALL HAVE A TILE PERMANENTLY AFFIXED ON THE CURB FACE OF EACH SIDE OF THE INLET OPENING WITH THE FOLLOWING MESSAGE ON IT: "NO DUMPING, THIS DRAINS TO OCEAN," INCLUDING A FISH STENCIL.

2. THE SIZE, COLOR AND DESIGN SHALL BE SUBJECT TO APPROVAL BY THE CITY ENGINEER. THE TILE MARKER SHALL CONSIST OF A HEAT-FIRED, VITREOUS, CERAMIC BASE AND A HEAT-FIRED, OPAQUE, GLAZED SURFACE. THE BOTTOMS OF THE TILE MARKER SHALL BE FREE FROM GLOSS OR GLAZE AND SHALL HAVE A NUMBER OF INTEGRALLY FORMED PROTRUSIONS PROJECTING FROM THE SURFACE IN A UNIFORM PATTERN.

3. THE TILE MARKER SHALL BE APPLIED WITH AN EPOXY ADHESIVE TO MEET SERVICE REQUIREMENTS FOR HIGHWAY CONSTRUCTION. THE PORTION OF CURB FACE SURFACE TO WHICH THE TILE MARKER IS TO BE BONDED BY THE ADHESIVE SHALL BE FREE OF DIRT, CURING COMPOUND, GREASE, OIL, MOISTURE, LOOSE OR UNSOUND LAYERS, PAINT AND OTHER MATERIAL WHICH WOULD ADVERSELY AFFECT THE BOND OF THE ADHESIVE.

TRAFFIC CONTROL NOTES

1. TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR FOR HIS WORK. TRAFFIC CONTROL SHALL CONFORM TO THE CALTRANS TRAFFIC MANUAL, TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE, AND THE REGIONAL STANDARD DRAWINGS. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN AND RECEIVE CITY APPROVAL FOR TRAFFIC CONTROL THAT DIFFERS FROM THOSE PLANS INCLUDED IN THE REGIONAL STANDARD DRAWINGS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY CONFLICTING STRIPING FOR TRAFFIC CONTROL DURING CONSTRUCTION.

GROUNDWATER NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEALING WITH ANY GROUNDWATER THAT MAY REQUIRE DE-WATERING DURING CONSTRUCTION.

GENERAL NOTES

1. A PERMIT SHALL BE OBTAINED FROM THE CITY OF SOLANA BEACH ENGINEERING DEPARTMENT FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY.

2. THE STRUCTURAL SECTION SHALL BE APPROVED BY THE CITY OF SOLANA BEACH AND AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

3. APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.

4. ALL UNDERGROUND UTILITIES WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED, CONNECTED AND TESTED PRIOR TO CONSTRUCTION OF BERM, CURB, CROSS GUTTER AND PAVING.

5. THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND FACILITIES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO OTHER EXISTING FACILITIES EXCEPT AS SHOWN ON THESE PLANS. HOWEVER, THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING FACILITY SHOWN HEREON AND ANY OTHER, WHICH IS NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

6. LOCATIONS AND ELEVATION OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.

7. THE CONTRACTOR SHALL NOTIFY DIG ALERT AT 811 PRIOR TO STARTING WORK AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES.

8. THE CONTRACTOR SHALL REQUEST FROM THE CITY ENGINEER'S OFFICE A PRE-CONSTRUCTION MEETING AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE FOR SUCH A MEETING.

9. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CONTACT THE UTILITY AGENCIES AND ADVISE THEM OF THE PROPOSED IMPROVEMENTS AND BEAR THE COST OF RELOCATIONS, IF NEEDED.

10. POWER SOURCES AND RUNS SERVING STREETLIGHTS SHALL BE SHOWN ON THE "AS-BUILT" IMPROVEMENT DRAWINGS. ALL SOURCES SHALL BE LOCATED WITHIN THE DEDICATED RIGHT OF WAY OR WITHIN EASEMENT DEDICATED TO THE CITY OF SOLANA BEACH.

11. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER, ENGINEER, GEOTECHNICAL ENGINEER, AND GEOLOGIST HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROPERTY, EXCEPTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

12. DEVIATIONS OR CHANGES FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY OF SOLANA BEACH. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

DISABLED ACCESS NOTES

1. ALL GRADES SHOWN ON THIS PLAN WERE DESIGNED AT OR BELOW MAXIMUMS ALLOWED BY THE AMERICANS WITH DISABILITY ACT AND CALIFORNIA TITLE 24 ACCESSIBILITY REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH AMERICANS WITH DISABILITY ACT ACCESSIBILITY GUIDELINES (A.D.A.A.G.) AND IN THE EVENT THAT A DESIGN QUESTION SHOULD ARISE, OR A FIELD CONDITION PRESENT ITSELF THAT IS DIFFERENT THAN SHOWN ON THESE PLANS, WORK SHOULD CEASE AND THE ENGINEER NOTIFIED SO THAT AN ACCEPTABLE SOLUTION CAN BE DETERMINED.

2. THE CONTRACTOR IS ADVISED TO CAREFULLY CHECK ALL PHASES OF WORK RELATING TO DISABLED ACCESS FOR THIS PROJECT. SINCE THE CODE DOES NOT ALLOW FOR CONSTRUCTION TOLERANCE, ANY CONSTRUCTION THAT EXCEEDS MAXIMUM OR MINIMUM DIMENSIONS AND SLOPES AS CALLED OUT BY A.D.A.A.G. ARE SUBJECT TO REJECTION BY THE CITY AND MAY BE REQUIRED TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

3. SINCE THE CIVIL ENGINEER OR SURVEYOR CAN NOT CONTROL THE EXACT METHODS OR MEANS USED BY THE GENERAL CONTRACTOR OR THEIR SUB-CONTRACTORS DURING GRADING AND CONSTRUCTION OF THE PROJECT, THE CIVIL ENGINEER OR SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE FINAL ACCEPTANCE OF ACCESSIBILITY RELATED ITEMS BY THE CITY, ANY OTHER AUTHORITY, OR OTHER AFFECTED PARTY.

ENGINEER OF WORK AS-BUILT CERTIFICATE

THE INFORMATION SHOWN IS BASED ON AN ACTUAL FIELD SURVEY FROM JULY 24, 2024. TO THE BEST OF MY KNOWLEDGE AND EXPERIENCE THE SURVEY AND THESE PLANS PROVIDE AN ACCURATE AND CORRECT REPRESENTATION OF THE AS-BUILT CONDITIONS.

SIGNED _____ DATE _____

R.C.E. NO. 49795 EXP. 9/30/26

SHEET INDEX

DRAWING NO.	SHEET TITLE	SHEET
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ENGINEER OF WORK CERTIFICATE

I, LAWRENCE THORNBURGH, HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS AND CITY OF SOLANA BEACH RESOLUTION NO. _____.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SOLANA BEACH AND ANY OTHER PUBLIC AGENCY IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME OF RESPONSIBILITIES FOR PROJECT DESIGN.

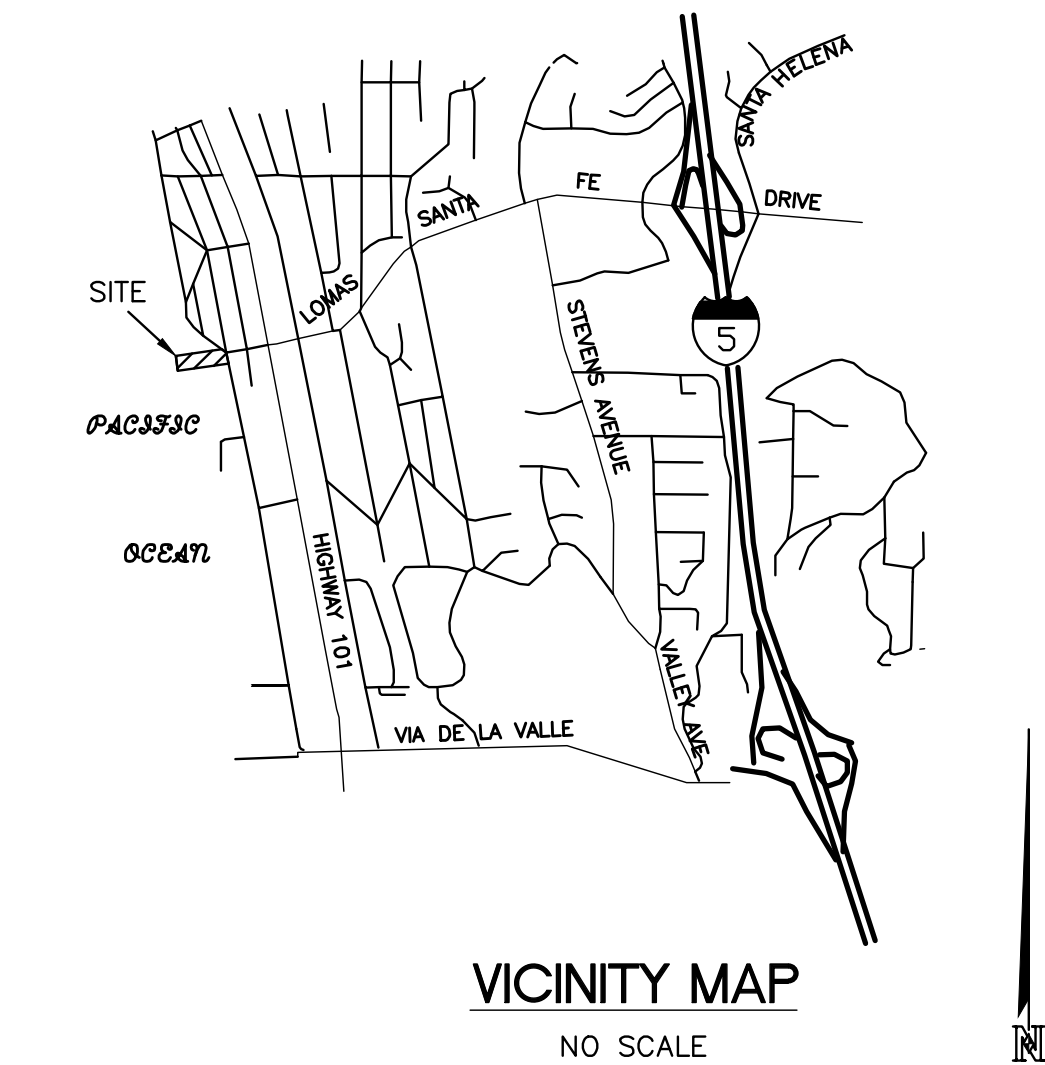
SIGNED Lawrence Thornburgh DATE 3/19/25
R.C.E. NO. 49795 EXP. 9/30/26

FIRM NASLAND ENGINEERING
4740 RUFFNER STREET
SAN DIEGO, CA 92111
(658) 292-7770

GEOTECHNICAL

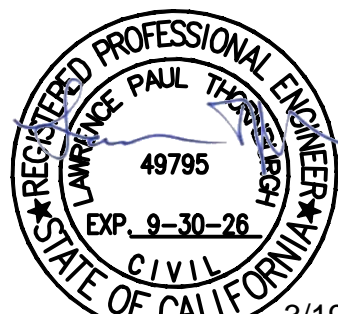
1. ALL WORK SHALL BE IN CONFORMANCE WITH THE "FLETCHER COVE CONCRETE PAVEMENT IMPROVEMENT LIMITED GEOTECHNICAL STUDY," PROJECT #24533, PREPARED BY VERDANTAS INC., DATED NOVEMBER 13, 2024.

2. A COMPACTION REPORT FROM A REGISTERED CIVIL ENGINEER CERTIFYING ALL PAVING AND UTILITY TRENCHING HAS BEEN COMPACTED TO THE MINIMUM REQUIREMENTS SPECIFIED IN THE STANDARDS SPECIFICATION FOR PUBLIC WORK CONSTRUCTION AND THE RECOMMENDATIONS OF THE SOIL ENGINEERING CONTAINED IN THE PROJECT'S SOILS REPORT.



VICINITY MAP

NO SCALE



NE JOB 124-031

3/19/25

SCOPE OF WORK:

REPLACEMENT OF THE BEACH ACCESS RAMP, REPLACEMENT OF THE DISSIPATOR GRATE, AND IMPROVEMENTS TO THE SHOWER AREA, INCLUDING THE DRAINAGE AND EXPANSION OF NUMBER OF SHOWER HEADS. THE RAMP REPLACEMENT INCLUDES REPLACING THE CONCRETE RAMP, THE ASPHALT CONCRETE WALKWAY IMMEDIATELY SOUTH OF THE RAMP, THE CONCRETE CURB AND THE METAL HANDRAILING.

WORK TO BE DONE:

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE LATEST EDITIONS OF:

STANDARD SPECIFICATIONS

- STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION INCLUDING THE REGIONAL SUPPLEMENTAL AMENDMENTS (GREEN BOOK).
- CALIFORNIA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES"
- STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS

STANDARD DRAWINGS

- SAN DIEGO REGIONAL STANDARD DRAWINGS (RSD).
- STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD PLANS

LEGEND

PROPOSED IMPROVEMENTS

IMPROVEMENT	STANDARD DWGS.	SYMBOL
CURB		---
PROPOSED SAWCUT LINE		---
PROPOSED PEDESTRIAN RAILING	M-24	---
PROPOSED PPC		---

IE = INVERT ELEVATION
TC = TOP OF CURB
FL = FLOW LINE
FG = FINISHED GRADE
RIM = FINISHED GRADE AT MANHOLE OR COVER
LOW = LIMIT OF WORK

TG = TOP OF GRATE
FF = FINISHED FLOOR
FS = FINISHED SURFACE
TS = TOP OF STAIR
BS = BOTTOM OF STAIR
HP = HIGH POINT

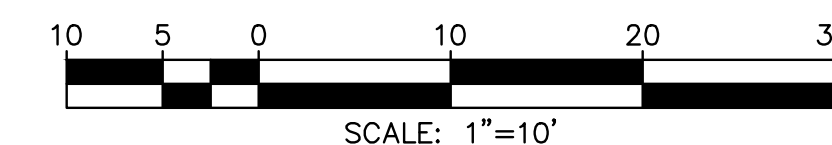
EXISTING IMPROVEMENTS

ITEM	SYMBOL
RIGHT-OF-WAY	R/W
EXISTING SEWER MANHOLE	S
EXISTING STORM MANHOLE	SD
EXISTING SEWER	S
EXISTING SEWER LATERAL	---
EXISTING WATER	W
EXISTING WATER SERVICE	W
EXISTING ELECTRIC	E
EXISTING TELEPHONE	T
EXISTING GAS	GAS
EXISTING STORM DRAIN	SD
EXISTING FIRE HYDRANT	FD
EXISTING TELEPHONE POLE	TP
EXISTING CURB	---
EXISTING CURB AND GUTTER	---
EXISTING DRIVEWAY	---
EXISTING STREET LIGHT	---
EXISTING PEDESTRIAN RAMP	---
EXISTING PULLBOX	---
EXISTING WATER METER	---
EXISTING AREA DRAIN	---
EXISTING GUARDPOST	---
EXISTING TREE	---
EXISTING SIGN	---
EXISTING WALL	---

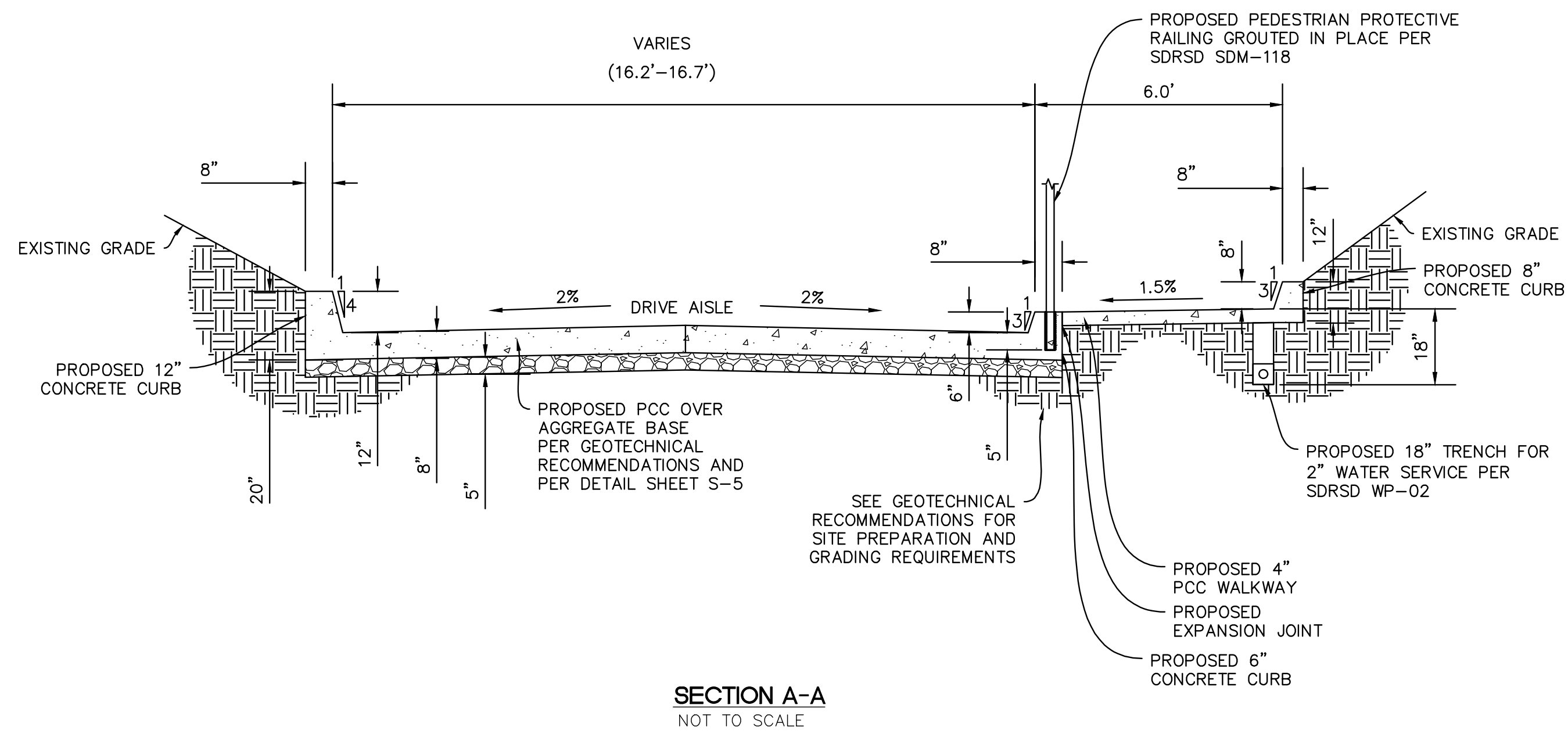
ENGINEER OF WORK		CITY APPROVED CHANGES	APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH ENGINEERING DEPARTMENT	PROJECT NO.
Drawn By	By: Lawrence P. Thornburgh Date: _____				By: _____ Date: 3/20/2025	By: _____ Date: 3/20/2025 Daniel Goldberg, City Engineer R.C.E.: 57292 Exp: 12/31/25	DESCRIPTION: LOCATION: ELEV.: _____	FLETCHER COVE IMPROVEMENTS TITLE SHEET	CG-1 Sheet 1 of 10

1. STAGING FOR CONSTRUCTION VEHICLES AND MATERIALS TO BE IN SOUTHWEST CORNER OF FLETCHER COVE PARKING LOT.
2. LIFEGUARD VEHICLE TO BE STAGED ON BEACH DURING THE DURATION OF THE PROJECT.
3. NO WORK SHALL OCCUR ON WEEKENDS, HOLIDAYS OR BETWEEN MEMORIAL DAY AND LABOR DAY OF ANY YEAR. IN ADDITION, THE PROJECT SHOULD AVOID THE RAINY SEASON (OCTOBER 15 THROUGH APRIL 15) AS MUCH AS POSSIBLE BY STARTING AS SOON AS POSSIBLE AFTER LABOR DAY AND CONTINUING UNTIL COMPLETE. PROJECT IS EXPECTED TO TAKE APPROXIMATELY THREE MONTHS (60 WORKING DAYS).
4. NO OVERNIGHT STORAGE OF CONSTRUCTION EQUIPMENT OR MATERIALS SHALL OCCUR ON THE SANDY BEACH. DURING CONSTRUCTION STAGING OF THE PROJECT, THE CITY SHALL NOT STORE ANY CONSTRUCTION MATERIALS OR WASTE WHERE IT WILL BE OR COULD BE POTENTIALLY SUBJECT TO WAVE EROSION AND/OR DISPERSION. IN ADDITION, NO CONSTRUCTION MACHINERY SHALL BE PLACED, STORED OR OTHERWISE LOCATED IN THE INTERTIDAL ZONE AT ANY TIME, EXCEPT AS NECESSARY TO PERFORM THE PERMITTED WORK. CONSTRUCTION EQUIPMENT SHALL NOT BE WASHED ON THE BEACH.
5. DURING CONSTRUCTION OF THE PROPOSED DEVELOPMENT, DISTURBANCE TO SAND AND INTERTIDAL AREAS SHALL BE MINIMIZED TO THE MAXIMUM EXTENT FEASIBLE. ALL EXCAVATED BEACH SAND SHALL BE REDEPOSITED ON THE BEACH. LOCAL SAND, COBBLE AND SHORELINE ROCKS SHALL NOT BE USED FOR BACKFILL OR FOR ANY OTHER PURPOSE AS CONSTRUCTION MATERIALS.
6. BEST MANAGEMENT PRACTICES SHALL BE UTILIZED TO ENSURE NO CONSTRUCTION BYPRODUCTS WILL BE ALLOWED ONTO THE SANDY BEACH AND/OR ALLOWED TO ENTER INTO THE COASTAL WATERS. ALL CONSTRUCTION BYPRODUCTS SHALL BE COLLECTED AND DISPOSED OF OFF-SITE.
7. A COARSE GRAVEL OR STEEL SHAKER PLATE SHALL BE UTILIZED TO LIMIT OFFSITE SEDIMENT TRACKING. REGULAR SWEEPING WILL BE IN EFFECT TO MINIMIZE OFFSITE SEDIMENT TRACKING.
8. CONTRACTOR SHALL MINIMIZE DISCHARGE OR CONSTRUCTION POLLUTANTS AND CLEAN UP ALL LEAKS, DRIPS, AND SPILLS IMMEDIATELY.
9. ALL EROSION AND SEDIMENT CONTROL BMPs MUST NOT CONTAIN PLASTIC OR PETROLEUM PRODUCTS.

ITEM	SYMBOL
CURB AND GUTTER	
ELECTRICAL PULLBOX	
GUARDPOST	
HANDRAIL	
PALM TREE	
SEWER MANHOLE	
SIGN AND POST	
STORM DRAIN MANHOLE	
WALL	
WATER METER	



	ENGINEER OF WORK	CITY APPROVED CHANGES	APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH ENGINEERING DEPARTMENT	PROJECT NO.
	By: Lawrence P. Thornburgh				By: _____ Date: 3/20/2025	By: _____ Date: 3/20/2025 Daniel Goldberg, City Engineer R.C.E.: 57292 Exp: 12/31/25	DESCRIPTION: LOCATION:	FLETCHER COVE IMPROVEMENTS EXISTING CONDITIONS	CG-2
Drawn By	Date: _____						ELEV.: DATUM: M.S.L.		Sheet 2 of 10

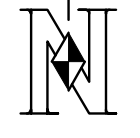
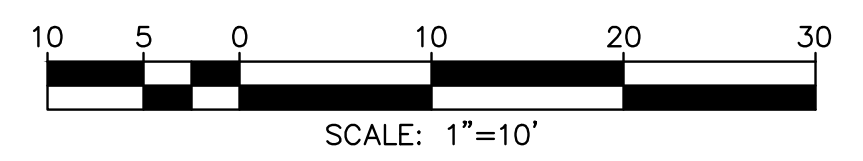
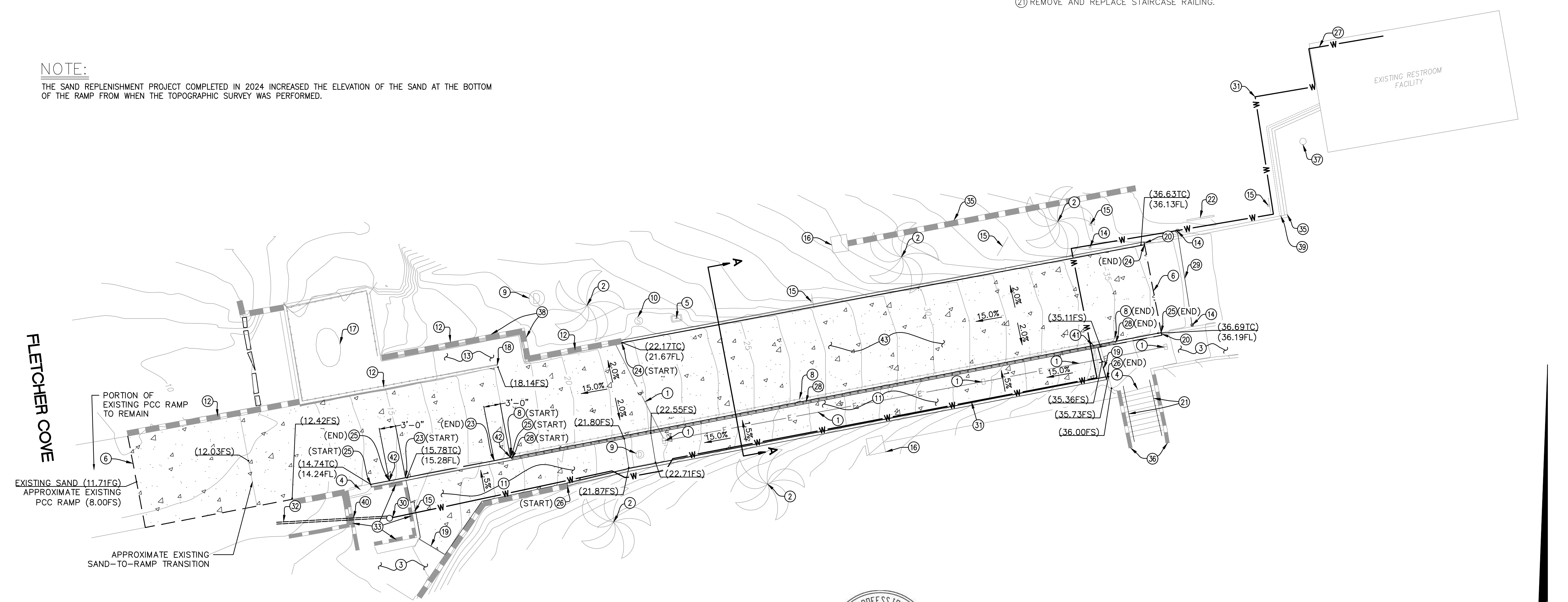


CONSTRUCTION NOTES

- EXISTING ELECTRICAL PULLBOX TO BE REMOVED AND REPLACED WITH NEW #3 PCC ELECTRICAL PULLBOX, CONDUIT AND CONDUCTORS TO BE REPLACED IN KIND. CONTRACTOR TO FIELD VERIFY LOCATION OF CONDUIT AND CONDUCTORS.
- EXISTING TREE TO REMAIN AND BE PROTECTED IN PLACE.
- EXISTING CONCRETE SIDEWALK TO REMAIN AND BE PROTECTED IN PLACE.
- EXISTING STAIRS TO REMAIN AND BE PROTECTED IN PLACE.
- EXISTING WATER METER TO REMAIN AND BE PROTECTED IN PLACE.
- SAWCUT AND CONNECT TO EXISTING CONCRETE RAMP WITH #5 DOWELS EXTENDED 12" INTO EXISTING CONCRETE. CONTRACTOR SHALL EXCAVATE TO A FS ELEVATION OF 8 FEET FOR THE SAWCUT LOCATION.
- REMOVE PEDESTRIAN PROTECTIVE RAILING.
- EXISTING MANHOLE TO REMAIN AND BE PROTECTED IN PLACE.
- EXISTING SEWER MANHOLE TO REMAIN AND BE PROTECTED IN PLACE.
- EXISTING ASPHALT SIDEWALK TO BE REMOVED AND REPLACED WITH PCC SIDEWALK.
- EXISTING WALL TO REMAIN AND BE PROTECTED IN PLACE.
- EXISTING CONCRETE RAMP AND GUARDRAILS TO REMAIN AND BE PROTECTED IN PLACE.
- EXISTING GUARDPOST TO BE REMOVED AND REPLACED.
- EXISTING SIGN TO REMAIN AND BE PROTECTED IN PLACE.
- EXISTING COLUMN TO REMAIN AND BE PROTECTED IN PLACE.
- EXISTING CONCRETE ART TO REMAIN AND BE PROTECTED IN PLACE.
- EXISTING HANDRAIL TO REMAIN AND BE PROTECTED IN PLACE.
- MATCH EXISTING SIDEWALK TO NEAREST JOINT.
- MATCH EXISTING CURB TO NEAREST JOINT.
- REMOVE AND REPLACE STAIRCASE RAILING.
- EXISTING SIGN TO BE REMOVED AND REPLACED.
- REMOVE AND REPLACE 0" CURB.
- REMOVE EXISTING CURB AND INSTALL 12" CURB.
- REMOVE EXISTING CURB AND INSTALL 6" CURB.
- REMOVE EXISTING BERM AND INSTALL 8" CURB.
- EXTEND 2" COPPER WATER LINE VERTICALLY THROUGH ROOFING FRAME AND CONNECT PROPOSED 2" WATER LINE TO EXISTING WATER LINE. SEE EXISTING RESTROOM FACILITY DETAIL ON SHEET 4.
- INSTALL PEDESTRIAN PROTECTIVE RAILING PER SDRSD M-24.
- EXISTING GATE TO BE REMOVED AND REPLACED IN KIND.
- CONNECT 2" WATER LINE AND INSTALL SHOWER (SHOWER-WARE 700 OR APPROVED EQUAL).
- PROPOSED 2" COPPER WATER LINE AND TRENCH PER SDRSD WP-02.
- 4" X 20' PERFORATED PLASTIC UNDERDRAIN PIPE WRAPPED WITH DRAINAGE FABRIC, ENCASED IN 3/4" CRUSHED ROCK. SEE UNDERDRAIN PIPE DETAIL ON SHEET 4.
- REPAIR EXISTING MASONRY WALL PER SPECIFICATIONS.
- EXISTING RETAINING WALL TO REMAIN AND BE PROTECTED IN PLACE.
- REPAIR EXISTING CONCRETE WALL PER SPECIFICATIONS.
- PROTECT EXISTING SHOWER.
- EXISTING LIGHTS IN WALL TO REMAIN AND BE PROTECTED IN PLACE.
- EXISTING PIPE TO REMAIN AND BE PROTECTED IN PLACE.
- CORE HOLE THROUGH EXISTING CMU WALL TO ACCOMMODATE FOR 4" UNDERDRAIN PIPE.
- REMOVE AND REPLACE EXISTING 3" CURB DRAIN PER SDRSD D-27. CONNECT TO EXISTING DRAIN.
- 3' TRANSITION AREA FROM 6" CURB TO 0" CURB.
- PROPOSED PCC OVER AGGREGATE BASE PER GEOTECHNICAL RECOMMENDATIONS AND PER DETAIL SHEET S-5.

NOTE:

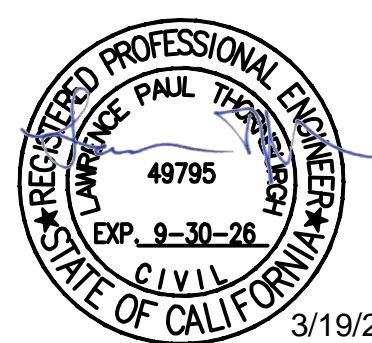
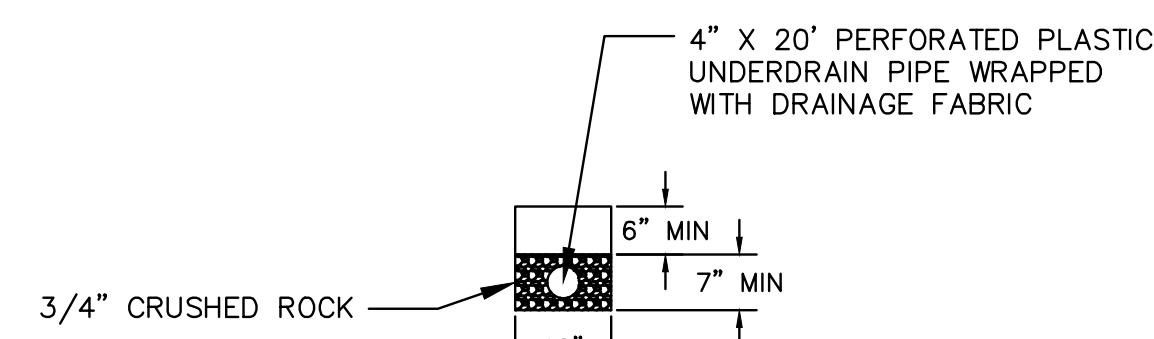
THE SAND REPLENISHMENT PROJECT COMPLETED IN 2024 INCREASED THE ELEVATION OF THE SAND AT THE BOTTOM OF THE RAMP FROM WHEN THE TOPOGRAPHIC SURVEY WAS PERFORMED.



NE JOB 124-031		3/19/25													
ENGINEER OF WORK		CITY APPROVED CHANGES		APP'D	DATE	RECOMMENDED FOR APPROVAL		APPROVED FOR CONSTRUCTION		BENCH MARK		CITY OF SOLANA BEACH ENGINEERING DEPARTMENT		PROJECT NO.	
		By: <u>Lawrence P. Thornburgh</u>				By: _____ Date: <u>3/20/2025</u>		By: _____ Date: <u>3/20/2025</u>		DESCRIPTION: LOCATION:		FLETCHER COVE IMPROVEMENTS		CG-3	
		Drawn By: _____ Date: _____						Daniel Goldberg, City Engineer R.C.E.: 57292 Exp: 12/31/25		ELEV.: _____ DATUM: M.S.L.		IMPROVEMENT PLANS		Sheet 3 of 10	

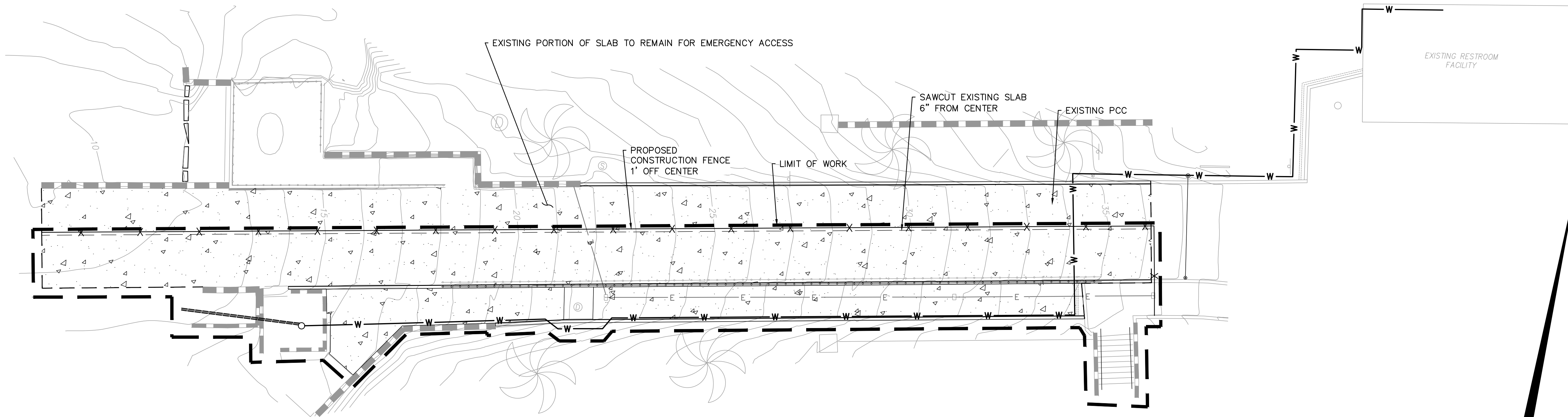


- UNDERDRAIN PIPE ELEVATION**
SCALE 1" = 2'

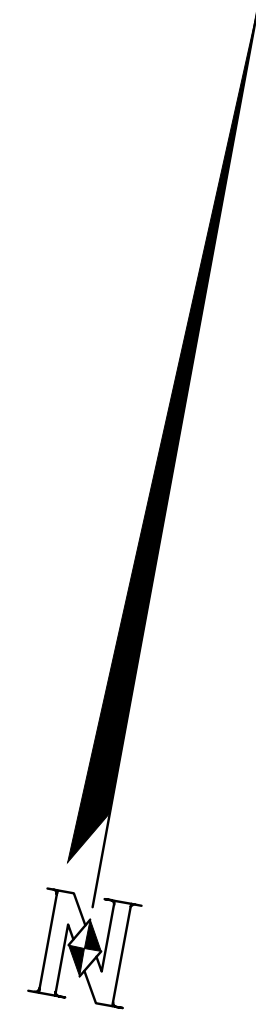
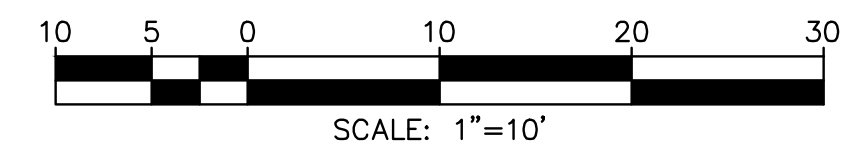


NE JOB 124-031		OF CALIF. 3/19/25											
<div>ENGINEER OF WORK</div> <div>By: <u>Lawrence P. Thornburgh</u></div> <div>Drawn By _____ Date: _____</div>		CITY APPROVED CHANGES	APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH	ENGINEERING DEPARTMENT	PROJECT NO.			
					By: _____ Date: <u>3/20/25</u>	By: _____ Date: <u>3/20/25</u>	DESCRIPTION: LOCATION:	FLETCHER COVE IMPROVEMENTS		CG - 4			
						Daniel Goldberg, City Engineer	ELEV.: DATUM: M.S.L.	DETAILS		Sheet 4 of 10			
						R.C.E.: 57292 Exp: 12/31/25							

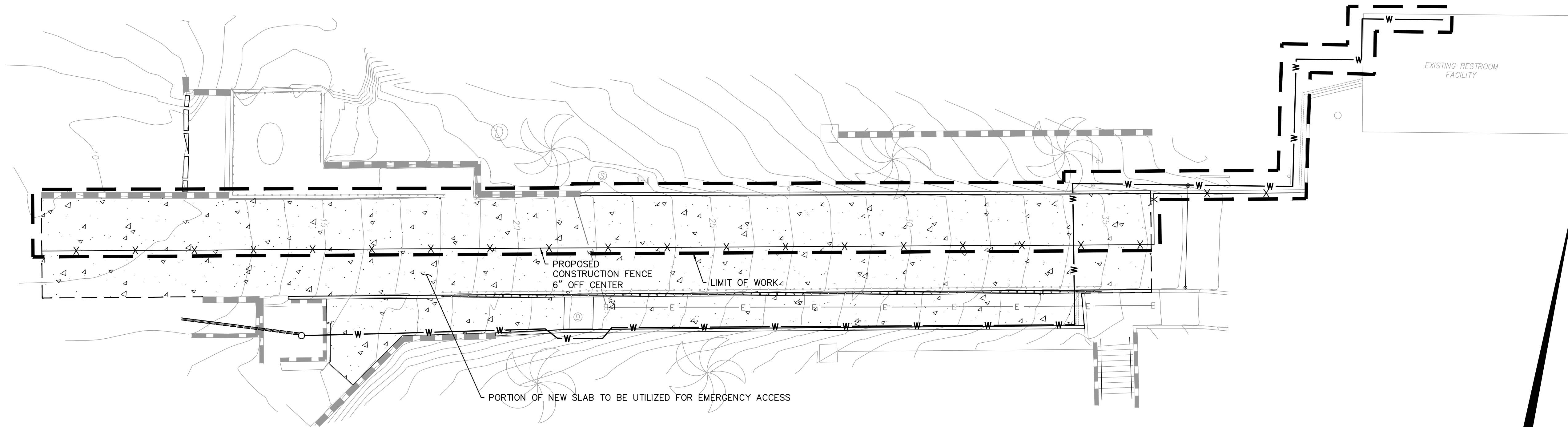
FLETCHER COVE



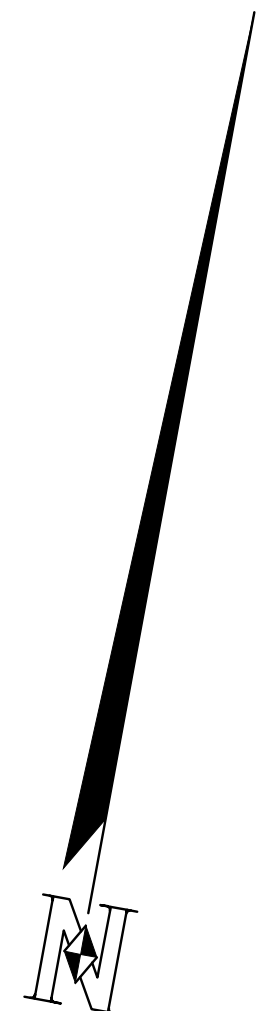
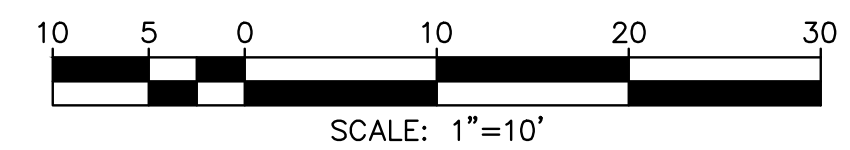
PLAN VIEW - CONSTRUCTION PHASE A
SCALE 1" = 10'



FLETCHER COVE



PLAN VIEW - CONSTRUCTION PHASE B
SCALE 1" = 10'



3/19/25





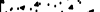

NE JOB 124-031

ENGINEER OF WORK		CITY APPROVED CHANGES		APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH ENGINEERING DEPARTMENT		PROJECT NO.
Drawn By	By: Lawrence P. Thornburgh					By: <i>[Signature]</i> Date: 3/20/2025	By: <i>[Signature]</i> Date: 3/20/2025	DESCRIPTION: LOCATION:	FLETCHER COVE IMPROVEMENTS CONSTRUCTION PHASING PLAN		CG-5 Sheet 5 of 10
	Date: _____						R.C.E.: 57292 Exp: 12/31/25	ELEV.: _____ DATUM: M.S.L.			

GENERAL STRUCTURAL NOTES

1. THESE NOTES ARE GENERAL IN NATURE AND ARE INTENDED TO SET MINIMUM STANDARDS FOR CONSTRUCTION. WHERE CONFLICTS BETWEEN THE DRAWINGS AND PROJECT SPECIFICATIONS EXIST, THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL EOR. THE CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH THE FINAL CONTRACT DOCUMENTS AND HAVE A COPY OF THEM ON SITE AT ALL TIMES. ELECTRONIC EQUIVALENTS ARE ACCEPTABLE WHERE PERMITTED BY THE GOVERNING JURISDICTION.
2. THESE DRAWINGS HAVE BEEN PREPARED SOLELY FOR USE IN THE CONSTRUCTION OF THE FLETCHER COVER IMPROVEMENT PROJECT LOCATED IN SOLANA BEACH, CALIFORNIA. POSSESSION OF THESE DRAWINGS DOES NOT CONSTITUTE A LICENSE TO CONSTRUCT OR FABRICATE THE WHOLE, OR PARTS OF THIS PROJECT IN OTHER LOCATIONS.
3. SCALES NOTED ON DRAWINGS ARE FOR GENERAL INFORMATION ONLY. DO NOT SCALE DRAWINGS.
4. ALL WORK SHALL BE IN STRICT CONFORMANCE WITH THE 2021 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE 2022 CALIFORNIA BUILDING CODE (CBC).
5. ALL STANDARDS AND SPECIFICATIONS REFERENCED WITHIN THESE DRAWINGS REFER TO THE MOST CURRENT VERSION REFERENCED IN THE SPECIFIED BUILDING CODE OR THE MOST CURRENT VERSION AVAILABLE AT THE PUBLISH DATE OF THESE DRAWINGS.
6. FOR ANY PORTION OF THE CONSTRUCTION WHICH THE CONTRACTOR IS UNABLE TO ASCERTAIN THE REQUIRED CONSTRUCTION OR WHERE CONFLICTS EXIST, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST ADDITIONAL INFORMATION (RFIs) AND/OR CLARIFICATIONS BEFORE FABRICATION OR CONSTRUCTION.
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE CONSTRUCTION. THE STRUCTURAL EOR SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
8. IT IS THE RESPONSIBILITY OF THE OWNER OR THE OWNER'S AGENT TO OBTAIN APPROPRIATE APPROVALS AND NECESSARY PERMITS FROM CITY, COUNTY, STATE, OR FEDERAL AGENCIES, AS REQUIRED. POSSESSION OF THESE DRAWINGS DOES NOT CONSTITUTE PERMIT APPROVAL.
9. THE GENERAL CONTRACTOR, SUBCONTRACTORS, AND SUPPLIERS SHALL ENSURE COORDINATION OF CONTRACTOR-SUPPLIED/DESIGNED ELEMENTS AND DEFERRED SUBMITTALS WITH ALL DESIGN DISCIPLINES WITHIN THE CONSTRUCTION SET. COORDINATION SHALL IDENTIFY AND RECONCILE CONFLICTS BETWEEN THE CONTRACTOR-SUPPLIED/DESIGNED ELEMENTS AND THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION AND DELIVERY TO THE PROJECT SITE. THE STRUCTURAL EOR SHALL BE NOTIFIED IF CONFLICTS EXIST.
10. WHERE CONFLICTS EXIST BETWEEN STRUCTURAL DOCUMENTS AND OTHER DISCIPLINES, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE STRUCTURAL EOR, SHALL GOVERN.
11. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY AND STABILITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION, INCLUDING SHORING AND TEMPORARY SHORING AND BRACING.
12. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD FOR THE STRUCTURE. PROVIDE SHORING AND/OR BRACING WHERE LOADS EXCEED DESIGN CAPACITY OR WHERE STRUCTURES HAVE NOT ATTAINED DESIGN STRENGTH.
13. CLADDING, WATERPROOFING, AND ARCHITECTURAL FEATURES ARE OUTSIDE THE STRUCTURAL DESIGN. ANY DEPICTION OF SUCH FEATURES ON THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO BE USED FOR CONSTRUCTION. REPRESENTATION OF SUCH FEATURES ON THESE DRAWINGS MAY OR MAY NOT BE ACCURATE. REFER TO OR PROJECT SPECIFICATIONS.
14. THE INFORMATION IN THE FOLLOWING GENERAL NOTES SECTIONS OUTLINES KEY REQUIREMENTS BUT IS NOT INCLUSIVE OF ALL RELATED DESIGN, TESTING, REPAIR, AND ACCEPTANCE CRITERIA FOR CONSTRUCTION. SEE THE RELEVANT PROJECT SPECIFICATIONS AND REFERENCED DESIGN STANDARDS FOR ADDITIONAL INFORMATION.

LEGEND

	CONCRETE		NATIVE/BACKFILL MATERIAL
	STEEL IN SECTION		COMPACTED CRUSHED SURFACING BASE COURSE

DESIGN LOADS

DESIGN LOADS: PER 2021 IBC AS AMENDED BY THE 2022 CBC

ACCESS RAMP LOADS:
LIVE LOAD 16 KIPS WHEEL LOADS

PROTECTION BARRIER LOADS:
LIVE LOAD 85 PCF EQUIVALENT FLUID DENSITY

1603.1.5 - EARTHQUAKE/SEISMIC DESIGN CRITERIA:

RISK CATEGORY.....	II
SEISMIC IMPORTANCE FACTOR, I_E	1.0
SITE CLASS	D (DEFAULT)
SPECTRAL ACCELERATION, S_S	1.240 G
SPECTRAL ACCELERATION, S_1	0.440 G
SPECTRAL RESPONSE COEFFICIENT, S_{DS}	0.992 G

ANALYSIS PROCEDURE - GENERAL PROCEDURE, PER AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) 7

CONCRETE

1. SEE THE RELEVANT PROJECT SPECIFICATIONS AND REFERENCED DESIGN STANDARDS FOR ADDITIONAL INFORMATION THAT IS NOT COVERED BELOW. THE INFORMATION OUTLINED BELOW IS A SUMMARY OF KEY REQUIREMENTS BUT IS NOT INCLUSIVE OF ALL RELATED CONCRETE DESIGN, POUR, TESTING, REPAIR, AND ACCEPTANCE CRITERIA FOR CONCRETE WORK.
2. ALL CONCRETE SHALL BE HARD ROCK CONCRETE MEETING REQUIREMENTS OF ACI-301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE". MIX PROPORTIONS SHALL BE PER ACI-301. SUBMIT MIX DESIGN FOR REVIEW BY STRUCTURAL EOR FOR APPROVAL PRIOR TO CONSTRUCTION.
3. NO WATER MAY BE ADDED TO CONCRETE IN THE FIELD UNLESS SPECIFICALLY APPROVED IN WRITING BY THE CONCRETE SUPPLIER IN CONJUNCTION WITH THE CONCRETE MIX DESIGN.
4. ALL STRUCTURAL CONCRETE SHALL BE NORMAL WEIGHT (148 PCF DRY DENSITY, MIN), WITH MIX DESIGNS THAT ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS. ADDITIONALLY THE CONCRETE MUST MEET THE REQUIREMENTS SET FORTH IN ACI 318-19 TABLE 19.3.2.1 FOR EXPOSURE CLASS F0, S1, W2, AND C2:

TYPE	f _c	SLUMP*	w/c	AIR
PAVEMENT/CURBS	5,000 PSI	2-4"	0.40	0.0%

*AVERAGE SLUMP PRIOR TO THE ADDITION OF ANY ADMIXTURE

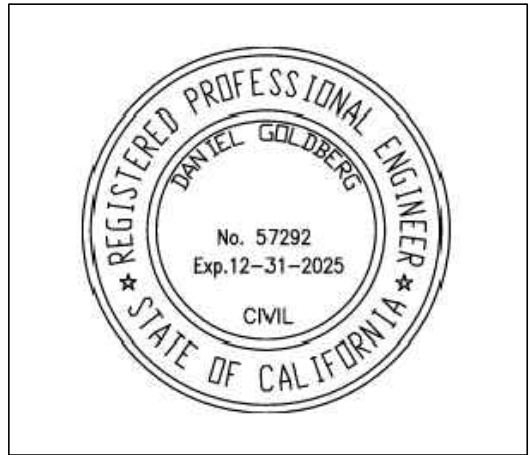
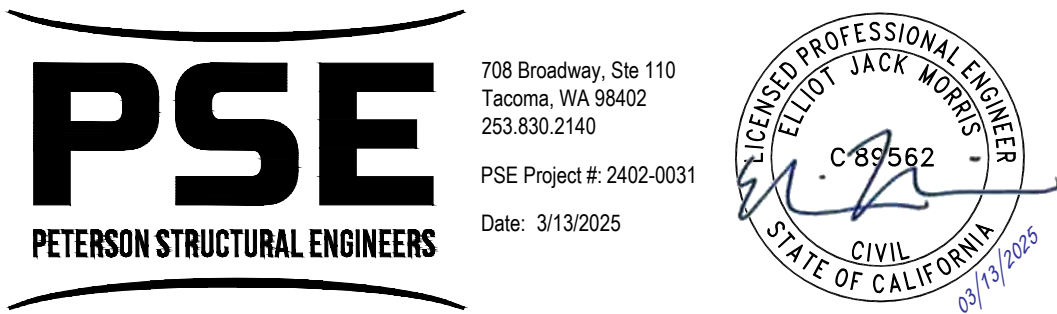
5. PORTLAND CEMENT SHALL BE TYPE II IN CONFORMANCE WITH ASTM C150. AGGREGATES SHALL BE IN CONFORMANCE WITH ASTM C33 AND USE CRUSHED (NOT ROUND) GRAVEL OR STONE. COARSE AGGREGATES SHALL NOT EXCEED 1-IN. WATER SHALL BE CLEAN AND POTABLE.
6. CEMENTITIOUS MATERIAL SHALL ONLY BE PORTLAND CEMENT OR ASTM CERTIFIED FLY ASH. UP TO A MAXIMUM OF 15% OF CEMENTITIOUS MATERIAL MAY BE FLY ASH IN ACCORDANCE WITH ASTM C618. BLAST FURNACE SLAG AND OTHER SLAG PRODUCTS ARE NOT ALLOWED. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL EOR.
7. CONCRETE MIXING OPERATIONS, ETC., SHALL CONFORM TO ASTM C94.
8. AIR ENTRAINMENT SHALL BE IN CONFORMANCE WITH ASTM C260, C233 AND C457 EXCEPT FOR WALL CONCRETE WHICH SHALL NOT BE AIR ENTRAINED
9. SLUMP LIMITS MAY BE INCREASED BY ADDITION OF ADMIXTURES PROVIDED THAT THE WATER/CEMENT RATIO OF THE ORIGINAL MIX DESIGN IS NOT EXCEEDED. WATER REDUCING ADMIXTURE SHALL BE IN CONFORMANCE WITH ASTM 494 AND USED IN CONFORMANCE WITH MANUFACTURER INSTRUCTIONS. SUPERPLASTICIZERS MAY BE USED AT THE CONTRACTOR'S OPTION. SUBMIT ADMIXTURES TO STRUCTURAL EOR FOR REVIEW PRIOR TO CONSTRUCTION.
10. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF THE REINFORCING STEEL AND CONCRETE DETAILING SECTIONS OF THESE GENERAL NOTES.
11. COORDINATE PLACEMENT OF OPENINGS, PIPE PENETRATIONS, CURVES, DOWELS, SLEEVES, CONDUITS, ANCHORS, AND INSERTS PRIOR TO THE PLACEMENT OF CONCRETE. SLEEVES, PIPES OR CONDUITS OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE UNLESS EFFECTIVELY COATED.
12. FORMWORK SHALL BE IN ACCORDANCE WITH ACI-347 "GUIDE TO FORMWORK FOR CONCRETE". FORMS SHALL BE DESIGNED BY THE CONTRACTOR. SHORING AND TEMPORARY SUPPORTS SHALL BE PROVIDED AS REQUIRED OR UNTIL THE CONCRETE HAS REACHED ITS SPECIFIED 28-DAY STRENGTH. FORMWORK, SHORING, AND TEMPORARY SUPPORTS SHALL PROVIDE FINISHED CONCRETE SURFACES AT ALL FACES: LEVEL, PLUMB, AND TRUE TO DIMENSIONS AND ELEVATIONS SHOWN IN THE DRAWINGS.
13. CHAMFER ALL EXTERIOR CORNERS 1/2-IN UNLESS SHOWN OTHERWISE.
14. TOLERANCES FOR CONCRETE FORMWORK SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE (ACI) 117, STANDARD TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS, UNLESS OTHERWISE SPECIFIED.
15. CONSTRUCTION MATERIALS SHALL BE UNIFORMLY SPREAD OUT SUCH THAT DESIGN LIVE LOAD PER SQUARE FOOT AS NOTED HEREIN IS NOT EXCEEDED.
16. MECHANICALLY VIBRATE ALL FORMED CONCRETE. DO NOT OVER-VIBRATE. PLACE CONCRETE MONOLITHICALLY BETWEEN CONSTRUCTION OR CONTROL JOINTS. PROTECT ALL CONCRETE FROM PREMATURE DRYING.
17. TOOL SLAB JOINTS AT THE TIME OF FINISHING. SAW CUTTING IN NOT ALLOWED UNLESS APPROVED BY THE STRUCTURAL EOR.
18. CONSTRUCTION JOINTS INDICATED ARE SUGGESTED LOCATIONS. CONTRACTOR MAY REVISE LOCATION OF JOINTS. SUBJECT TO SPECIFIED REQUIREMENTS. LAYOUT SHOWING ALL CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED FOR REVIEW BY STRUCTURAL EOR.
19. CONCRETE CURING PROCEDURES SHALL BE STRICTLY ADHERED TO AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
20. COLD WEATHER PLACEMENT SHALL CONFORM TO ACI-306. HOT WEATHER PLACEMENT SHALL CONFORM TO ACI-305.



REINFORCING STEEL

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 OR ASTM A706, GRADE 60.
2. ALL REINFORCING STEEL SHALL BE EPOXY COATED AND SHALL SHALL CONFORM TO ASTM A775 AND A934.
3. REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED REINFORCING BARS WILL ONLY BE APPROVED IF EXPLICITLY SHOWN ON THE STRUCTURAL DRAWINGS OR IF WRITTEN APPROVAL IS GIVEN BY THE STRUCTURAL EOR.
4. DOWELS AND OTHER MISCELLANEOUS STEEL EMBEDDED ITEMS SHALL BE LOCATED AND HELD IN SPECIFIED POSITION PRIOR TO PLACEMENT OF GROUT AND SHALL NOT BE PUSHED INTO GROUT FOLLOWING GROUT POUR.
5. ALL REINFORCING BENDS SHALL BE MADE COLD. BARS SHALL NOT BE UN-BENT AND RE-BENT. FIELD BENDING OF REBAR SHALL NOT BE ALLOWED UNLESS SPECIFICALLY NOTED. NO BARS PARTIALLY EMBEDDED IN HARD GROUT SHALL BE FIELD BENT UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL EOR.
6. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE, SPACING AND NUMBER AS THE SPECIFIED VERTICAL REINFORCING UNO.

CONCRETE DETAILING

1. DETAIL AND PLACE REINFORCING STEEL ACCORDING TO AMERICAN CONCRETE INSTITUTE (ACI) 315.
2. UNO, MINIMUM COVER SHALL BE 1 1/2-IN FOR #5 AND SMALLER BARS, 2-IN FOR #6 AND LARGER BARS AND 3-IN WHEN POURED AGAINST EARTH. ALL REINFORCING STEEL SHALL BE SUPPORTED ON STANDARD APPROVED ACCESSORIES SUCH AS CHAIRS, SPACERS OR TIES, HELD RIGIDLY AND ACCURATELY IN PLACE, AND PROTECTED AGAINST DISPLACEMENT BEFORE AND DURING THE PLACEMENT OF CONCRETE.
3. ALL LAPS, UNO, SHALL BE MINIMUM 48 BAR DIAMETERS AT SPLICES AND NOT LESS THAN 24-IN. NO MORE THAN 50% OF REINFORCING SHALL BE SPLICED AT ANY LOCATION, UNO. ALL HORIZONTAL REINFORCING AT WALL/FOOTING CORNERS SHALL BE BENT BAR WITH MINIMUM EMBEDMENT BEYOND INTERFACE PER THE DEVELOPMENT LENGTH SPECIFIED IN ACI 318 (MINIMUM 2-FIT LAP LENGTH).
4. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A1064 (FLAT SHEETS) AND HAVE A MINIMUM YIELD STRENGTH OF 70 KSI. LAPS IN WELDED WIRE FABRIC SHALL BE MADE SUCH THAT THE OVERLAP, MEASURED BETWEEN THE OUTERMOST CROSS WIRE OF EACH FABRIC SHEET, IS NOT LESS THAN THE SPACING OF CROSS WIRES PLUS 2-IN.
 - 4.1. EPOXY COATED WWR SHALL CONFORM TO ASTM A884.
5. SPLICES SHALL BE MADE ONLY WHERE INDICATED ON THE STRUCTURAL DRAWINGS.
 - 5.1. SPLICES IN CONTINUOUS TOP BARS, IF REQUIRED, SHALL OCCUR OVER THE CENTER OF THE OPENING SPAN OR AT LEAST 2X THE LAP LENGTH AWAY FROM SUPPORTS.
 - 5.2. SPLICES IN CONTINUOUS BOTTOM BARS, IF REQUIRED, SHALL OCCUR OVER SUPPORTS OR CENTERED OVER COLUMNS.
 - 5.3. SPLICES SHALL BE CONTACT LAP SPLICES.
6. APPROVED REBAR COUPLERS MAY BE USED AT THE CONTRACTORS OPTION TO AID PLACEMENT OF DOWELS THROUGH FORMS, MECHANICAL SPLICES SHALL DEVELOP 125% OF THE TENSILE STRENGTH OF THE REBAR.



	ENGINEER OF WORK		CITY APPROVED CHANGES	APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH	ENGINEERING DEPARTMENT		PROJECT NO.	
		By:Elliot Morris Date: 03/13/25				By:  Date: 3/20/2025	By:  Date: 3/20/2025 Daniel Goldberg, City Engineer R.C.E.: 57292 Exp: 12/31/25	DESCRIPTION: LOCATION: ELEV.: DATUM: M.S.L.	FLETCHER COVE IMPROVEMENTS GENERAL NOTES		S-1		
	Drawn By												Sheet 6 of 10

STRUCTURAL STEEL

1. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" WITH AMENDMENTS AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", WITH AMENDMENTS.
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING GRADES, UNO ON THE PLANS:

SECTION	ASTM STANDARD	MINIMUM YIELD STRENGTH, F _y
PLATES & BARS	A36	36 KSI
CHANNELS & ANGLES	A36	36 KSI

4. WELDING SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) STANDARD D1.1. ELECTRODES FOR SHOP AND FIELD WELDS SHALL CONFORM TO AWS A5.1 OR A5.5, CLASS E70XX. ALL WELD OPERATORS SHALL BE CURRENTLY AWS CERTIFIED.
4. FILLET WELD SIZES SHOWN ON THE DESIGN DRAWINGS INDICATE THE FILLET WELD LEG SIZES. FOR WELDS BETWEEN PARTS WITH SURFACES MEETING AT AN ANGLE LESS THAN 80 DEGREES OR GREATER THAN 100 DEGREES, THE FILLET WELD SIZE SHOWN ON THE DRAWINGS INDICATE THE EFFECTIVE THROAT THICKNESS IN ACCORDANCE WITH AWS D1.1.
5. ALL STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE PAINTED OR HOT-DIP GALVANIZED, UNO. STRUCTURAL STEEL PARTS TO BE GALVANIZED SHALL BE FABRICATED IN ACCORDANCE WITH ASTM A385. STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123. BOLTS, HARDWARE, AND FASTENERS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153. SURFACE PREPARATION SHALL BE DONE PER SSPC-SP10. DAMAGED GALVANIZED AREAS SHALL BE REPAIRED ACCORDING TO ASTM A780 SPECIFICATIONS. THE MINIMUM THICKNESS OF THE APPLIED COATING SHALL BE 3 MILS (0.003-IN).
6. ALL STRUCTURAL CONNECTION BOLTS SHALL BE HIGH-STRENGTH BOLTS CONFORMING TO ASTM F3125 GRADE A325, UNO. ALL MACHINE BOLTS, COUNTERSUNK BOLTS, OR CARRIAGE BOLTS SHALL CONFORM TO ASTM A307 GRADE A, UNO. ALL STRUCTURAL THREADED RODS SHALL CONFORM TO ASTM F1554 GRADE 36, UNO. BOLTED CONNECTIONS SHALL BE BEARING TYPE AND THREADS PERMITTED IN SHEAR PLANES EXCEPT AS NOTED OTHERWISE. ALL CONNECTION HOLES SHALL BE STANDARD SIZED HOLES FOR BEARING CONNECTIONS PER AISC 360 UNO.
7. WELDING BETWEEN DISSIMILAR METALS IS NOT PERMITTED. CONTACT BETWEEN DISSIMILAR METALS SHALL BE ISOLATED USING PHENOLIC OR OTHERWISE APPROVED ISOLATION HARDWARE.
8. SPlicing OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS PROHIBITED WITHOUT THE APPROVAL OF THE STRUCTURAL EOR.
9. CUTS, HOLES (OPENINGS), NOTCHES, ETC. AS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SUBMITTED SHOP DRAWINGS. BURNING OF HOLES AND CUTS IN STRUCTURAL STEEL MEMBERS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN PERMISSION FROM THE STRUCTURAL EOR.
10. FOR MEMBERS AND CONNECTIONS THAT ARE PART OF THE SEISMIC FORCE RESISTING SYSTEM, DISCONTINUITIES CREATED BY ERRORS OR BY FABRICATION OR ERECTION OPERATIONS, SUCH AS TACK WELDS, ERECTION AIDS, AIR-ARC GOUGING, OR FLAME CUTTING, SHALL BE REPAIRED AS REQUIRED BY THE STRUCTURAL EOR.

STAINLESS STEEL

1. STAINLESS-STEEL DESIGN, FABRICATION, AND ERECTION SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATION FOR STRUCTURAL STAINLESS-STEEL BUILDINGS" WITH AMENDMENTS AND THE AISC "CODE OF STANDARD PRACTICE FOR STRUCTURAL STAINLESS-STEEL BUILDINGS," WITH AMENDMENTS.
2. STAINLESS-STEEL SHALL BE TYPE 316 AND CONFORM TO THE FOLLOWING MINIMUM STANDARDS:

SECTION	ASTM STANDARD	MINIMUM YIELD STRENGTH, F _y
PLATES & SHEETS	A666	25 KSI
PIPES	A312	25 KSI

3. WELDING SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) STANDARD D1.6 FOR STAINLESS STEEL. ALL WELD OPERATORS SHALL BE CURRENTLY AWS CERTIFIED.
4. WELD SIZES/LENGTHS SHOWN ON THE DESIGN DRAWINGS ARE CONSIDERED EFFECTIVE WELD SIZES/LENGTH AND SHALL BE INCREASED IN ACCORDANCE WITH AWS AS REQUIRED BY GAPS OR SKEWS BETWEEN COMPONENTS. WELD LENGTHS AND WELD SIZES SHALL BE AISC MINIMUM, UNO.
5. ALL STRUCTURAL CONNECTION BOLTS SHALL CONFORM TO ASTM F593 TYPE 316, UNO. BOLTED CONNECTIONS SHALL BE BEARING TYPE AND THREADS PERMITTED IN SHEAR PLANES EXCEPT AS NOTED OTHERWISE.
6. ALL CONNECTION HOLES SHALL BE STANDARD SIZED HOLES FOR BEARING CONNECTIONS UNO
7. WELDING BETWEEN DISSIMILAR METALS IS NOT PERMITTED. CONTACT BETWEEN DISSIMILAR METALS SHALL BE ISOLATED USING PHENOLIC OR OTHERWISE APPROVED ISOLATION HARDWARE.
8. CUTS, HOLES (OPENINGS), NOTCHES, ETC. AS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SUBMITTED SHOP DRAWINGS. BURNING OF HOLES AND CUTS IN STRUCTURAL STAINLESS STEEL MEMBERS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN PERMISSION FROM THE STRUCTURAL EOR.



FOUNDATIONS

1. GEOTECHNICAL REPORT, DATED NOVEMBER 15, 2024 (THEIR PROJECT NO. 24533), WAS PREPARED BY VERDANTAS GEOTECHNICAL, INC. OF 3934 MURPHY RD, SUITE B-205, SAN DIEGO, CALIFORNIA, PHONE: (858) 292-8030. THE CONTRACTOR SHALL BE FAMILIAR WITH THAT SUPPLEMENTAL REPORT INFORMATION AND THE RECOMMENDATIONS CONTAINED THEREIN.
2. ALL FOUNDATIONS TO BEAR ON UNDISTURBED NATIVE MATERIAL, OR GRANULAR COMPACTED ENGINEERED FILL, PER THE PROJECT CONTRACT DOCUMENTS. THE CONTRACTOR IS DIRECTED TO THE GEOTECHNICAL REPORT IN THE PROJECT SUPPLEMENTAL INFORMATION FOR ADDITIONAL INFORMATION. EXCAVATIONS FOR FOUNDATIONS SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING OF CONCRETE FOR FOUNDATION.
3. SOIL DESIGN CRITERIA, PER GEOTECHNICAL ENGINEER:
 - 3.1. SUBGRADE MODULUS - 130 POUNDS PER CUBIC INCH
4. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS UNTIL THE CONCRETE OR MASONRY WALL HAS ATTAINED FULL DESIGN STRENGTH. WHERE A SLAB ON GRADE OR STRUCTURAL FRAMING IS USED TO RESTRAIN THE TOP AND/OR BOTTOM OF A RETAINING WALL, DO NOT PLACE BACKFILL BEHIND THE WALL UNTIL THE SLAB(S) HAVE BEEN CAST AND ATTAINED FULL DESIGN STRENGTH AND/OR UNTIL THE STRUCTURAL FRAMING AND CONNECTION HARDWARE HAS BEEN INSTALLED, UNLESS OTHERWISE ADEQUATELY SHORED.
5. LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN IN SERVICE DURING AND/OR AFTER CONSTRUCTION.

QUALITY ASSURANCE PLAN

QUALITY ASSURANCE FOR THE STRUCTURE'S SEISMIC RESISTANCE SHALL BE ENSURED BY THE REVIEW OF THE FOLLOWING SUBMITTALS, PERFORMING THE LISTED STRUCTURAL OBSERVATIONS AND IMPLEMENTATION OF THE LISTED SPECIAL INSPECTION AND MATERIAL TESTING OF THE FOLLOWING:

STRUCTURAL OBSERVATION AND SPECIAL INSPECTION REQUIREMENTS DO NOT WAIVE THE REQUIREMENTS FOR BUILDING PERMIT INSPECTIONS OR ANY OTHER INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COORDINATION OF ALL STRUCTURAL OBSERVATIONS, SPECIAL INSPECTIONS, PERMITTING INSPECTIONS, AND OTHER INSPECTIONS, AS APPLICABLE.

SUBMITTALS & DEFERRED SUBMITTALS

SUBMITTALS:

THE CONTRACTOR SHALL PROVIDE THE STRUCTURAL EOR AND THE BUILDING OFFICIAL SUBMITTALS FOR APPROVAL, PRIOR TO FABRICATION OR CONSTRUCTION, FOR THE FOLLOWING ITEMS:

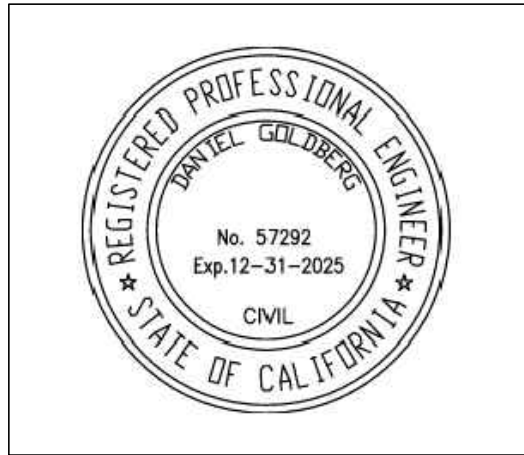
1. STEEL FABRICATION SHOP DRAWINGS, MATERIAL CERTIFICATIONS & WELDING PROCEDURES
2. CONCRETE MIX DESIGN AND PROPOSED ADMIXTURES
3. CONCRETE CONSTRUCTION JOINT LAYOUT DRAWINGS
4. GROUT MIX DESIGN

NOTE:

1. THE CONTRACTOR SHALL REVIEW AND STAMP SHOP DRAWINGS PRIOR TO SUBMITTAL. CONTRACTOR'S REVIEW SHALL CHECK FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.
2. SHOP DRAWINGS ARE REVIEWED FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS, RESPONSIBILITY FOR CORRECTNESS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. SHOP DRAWINGS DO NOT SUPERSEDE OR REPLACE CONTRACT DRAWINGS OR PROJECT SPECIFICATIONS. CHANGES OR SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DRAWINGS AND/OR PROJECT SPECIFICATIONS WILL NOT BE ACCEPTED VIA SHOP DRAWINGS REVIEW. ALL SUCH MODIFICATIONS SHALL BE SUBMITTED SEPARATELY FOR THE STRUCTURAL EOR'S REVIEW.

STRUCTURAL OBSERVATION REQUIREMENTS:

1. THE OWNER SHALL EMPLOY THE STRUCTURAL EOR OR AN ALTERNATE CALIFORNIA LICENSED PROFESSIONAL ENGINEER, APPROVED BY THE STRUCTURAL EOR, TO PERFORM STRUCTURAL OBSERVATIONS IN ACCORDANCE WITH SECTION 1704.6 OF THE INTERNATIONAL BUILDING CODE.
2. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM BY A REGISTERED DESIGN PROFESSIONAL FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR ANY OTHER INSPECTION CRITERIA, INCLUDING SPECIAL INSPECTION, AS REQUIRED BY THE BUILDING OFFICIAL OR AS INDICATED WITHIN THE INTERNATIONAL BUILDING CODE.
3. DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER AND THE BUILDING OFFICIAL (AND THE STRUCTURAL EOR IF AN ALTERNATE ENGINEER IS USED FOR STRUCTURAL OBSERVATION). AT THE CONCLUSION OF THE STRUCTURAL WORK INCLUDED WITHIN THE PERMIT, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL AND THE OWNER (AND THE STRUCTURAL EOR IF AN ALTERNATE ENGINEER IS USED FOR STRUCTURAL OBSERVATION) A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.
4. THE CONTRACTOR SHALL MAKE AVAILABLE ALL MEANS AND METHODS NECESSARY FOR THE STRUCTURAL OBSERVER TO PERFORM THE REQUIRED STRUCTURAL OBSERVATIONS. IN ADDITION, THE CONTRACTOR SHALL NOTIFY THE OWNER AND STRUCTURAL OBSERVER A MINIMUM OF 48 HOURS BEFORE THE TIME AT WHICH THE SPECIFIED STRUCTURAL OBSERVATIONS MAY BE PERFORMED. IN ADDITION, THE CONTRACTOR SHALL UPDATE THE STRUCTURAL OBSERVER OF THE CONSTRUCTION PROGRESS.
5. STRUCTURAL OBSERVATIONS SHALL BE PERFORMED FOR THE FOLLOWING AREAS OF WORK (2 PLANNED VISITS TOTAL):
 - 5.1. PAVEMENT: FOLLOWING THE INSTALLATION OF THE PAVEMENT REINFORCING, FORMWORK, AND OTHER CAST-IN ITEMS, BUT PRIOR TO THE FIRST CONCRETE POUR.
 - 5.2. FOLLOWING THE COMPLETION OF ALL STRUCTURAL ELEMENTS CONTAINED HEREIN.



SPECIAL INSPECTIONS:

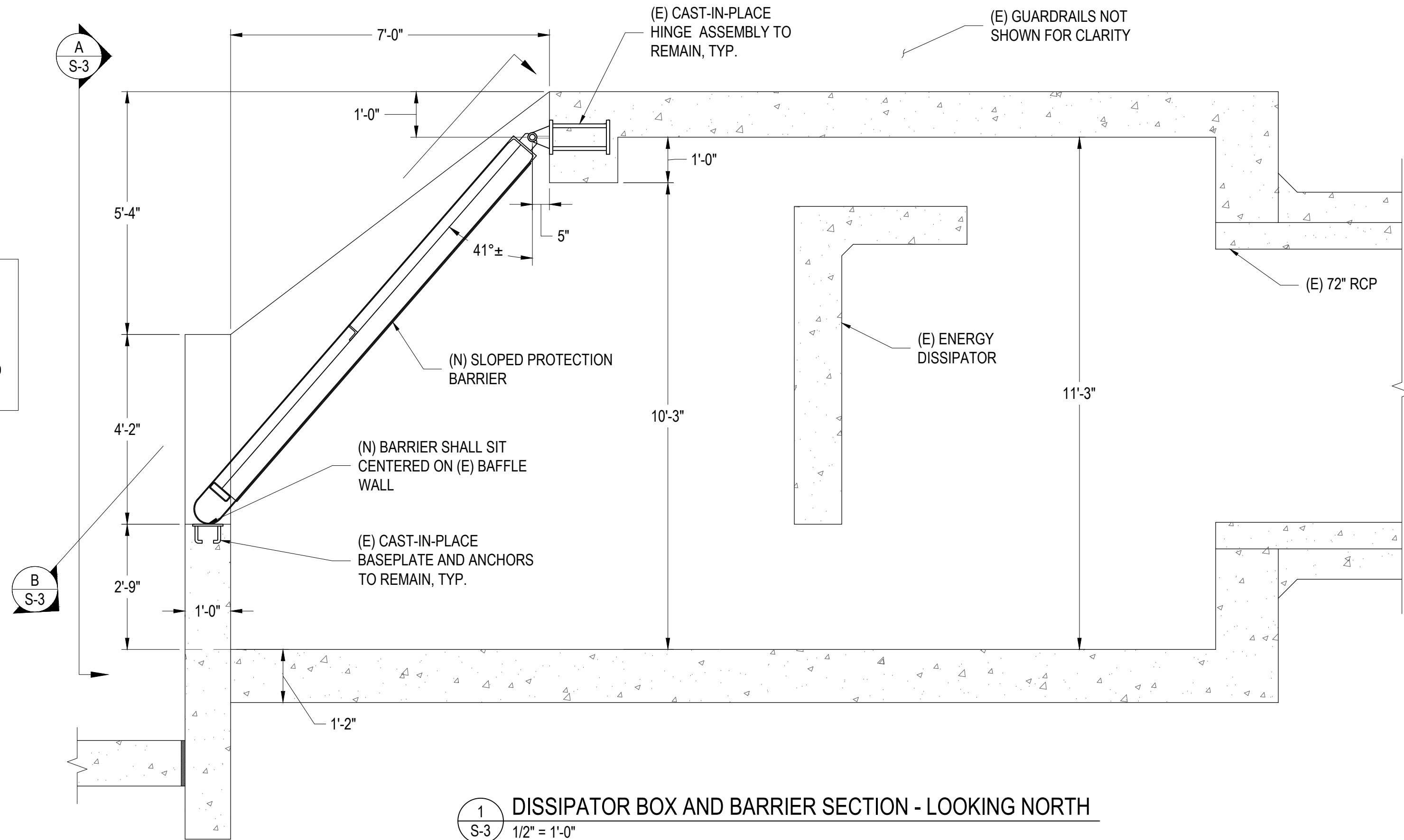
1. AN INDEPENDENT TESTING LABORATORY CHOSEN BY THE OWNER SHALL PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE FOR THE STRUCTURAL SYSTEMS OUTLINED HEREIN. ALL OTHER ELEMENTS SHALL COMPLY WITH THE SPECIAL INSPECTION & TESTING REQUIREMENTS OF CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE. REQUIRED SPECIAL INSPECTION OF STRUCTURAL SYSTEMS OUTLINED IN THESE CONSTRUCTION DOCUMENTS INCLUDE THE FOLLOWING AREAS OF WORK:
 - 1.1. SOILS COMPACTION: ALL SOIL BEARING SURFACES AND FILL MATERIALS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE OR AS INDICATED BY THE GEOTECHNICAL ENGINEER.
 - 1.2. CONCRETE:
 - 1.2.1. CYLINDER TESTS, SLUMP TEST, AIR CONTENT
 - 1.2.2. DURING PLACEMENT OF REINFORCING STEEL & ANCHOR BOLTS
 - 1.2.3. DURING PLACEMENT OF CAST IN PLACE CONCRETE
 - 1.2.4. SPECIAL INSPECTION IS NOT REQUIRED FOR FOOTINGS WHEN THE REQUIRED CONCRETE STRENGTH IS LESS THAN OR EQUAL TO 2,500 PSI. SEE CONCRETE NOTES FOR ADDITIONAL INFORMATION ON THIS REQUIREMENT.
 - 1.3. STRUCTURAL STEEL:
 - 1.3.1. STRUCTURAL WELDING (DOES NOT APPLY TO QUALIFIED SHOP WELDS). NOTE: TO BE CONSIDERED QUALIFIED SHOP WELDS THEY MUST BE PERFORMED IN A PRE-QUALIFIED SHOP AS RECORDED BY THE JURISDICTION OF RECORD, A WRITTEN VERIFICATION OF PRE-QUALIFICATION WITH THE JURISDICTION OF RECORD IS REQUIRED PRIOR TO PERFORMING ANY STRUCTURAL WELDING IN A SHOP WITHOUT SPECIAL INSPECTION.
2. EACH SPECIAL INSPECTION AND MATERIAL TESTING REPORT SHALL BE DISTRIBUTED TO THE OWNER, CONTRACTOR, BUILDING OFFICIAL, AND STRUCTURAL EOR IN TIMELY FASHION.
3. THE CONTRACTOR SHALL MAKE AVAILABLE ALL MEANS AND METHODS NECESSARY FOR THE SPECIAL INSPECTOR TO PERFORM THE REQUIRED INSPECTIONS. IN ADDITION, THE CONTRACTOR SHALL NOTIFY THE OWNER AND SPECIAL INSPECTOR A MINIMUM OF 48 HOURS BEFORE THE TIME AT WHICH THE SPECIFIED SPECIAL INSPECTIONS MAY BE PERFORMED.

JOB SITE CONDITIONS AND SAFETY

1. CONTRACTOR ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
2. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, LAGGING, SHORING, BRACING, FORMWORK ETC. AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING ALL STAGES OF CONSTRUCTION.

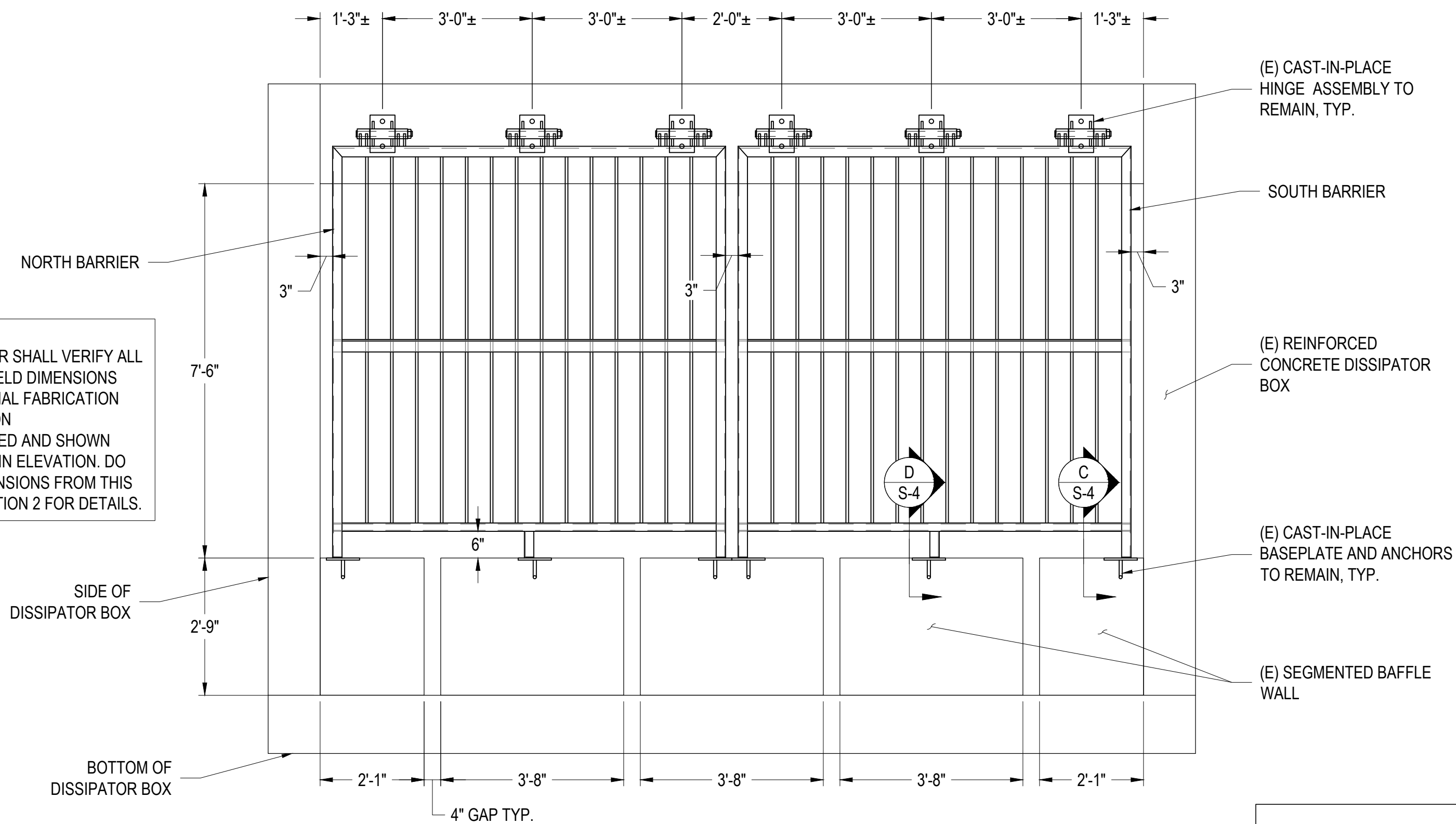
		CITY APPROVED CHANGES	APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH ENGINEERING DEPARTMENT		PROJECT NO.
	ENGINEER OF WORK									
	By: Elliot Morris Date: 03/13/25				By: _____ Date: 3/20/2025	By: _____ Date: 3/20/2025 Daniel Goldberg, City Engineer R.C.E.: 57292 Exp: 12/31/25	DESCRIPTION: LOCATION:			S-2
Drawn By							ELEV.: DATUM: M.S.L.	FLETCHER COVE IMPROVEMENTS GENERAL NOTES (CONT.) AND SPEC. INSPECTIONS		Sheet 7 of 10

DETAIL NOTES:
1. ALL CONCRETE CONSTRUCTION IS EXISTING
2. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS PRIOR TO MATERIAL FABRICATION AND INSTALLATION



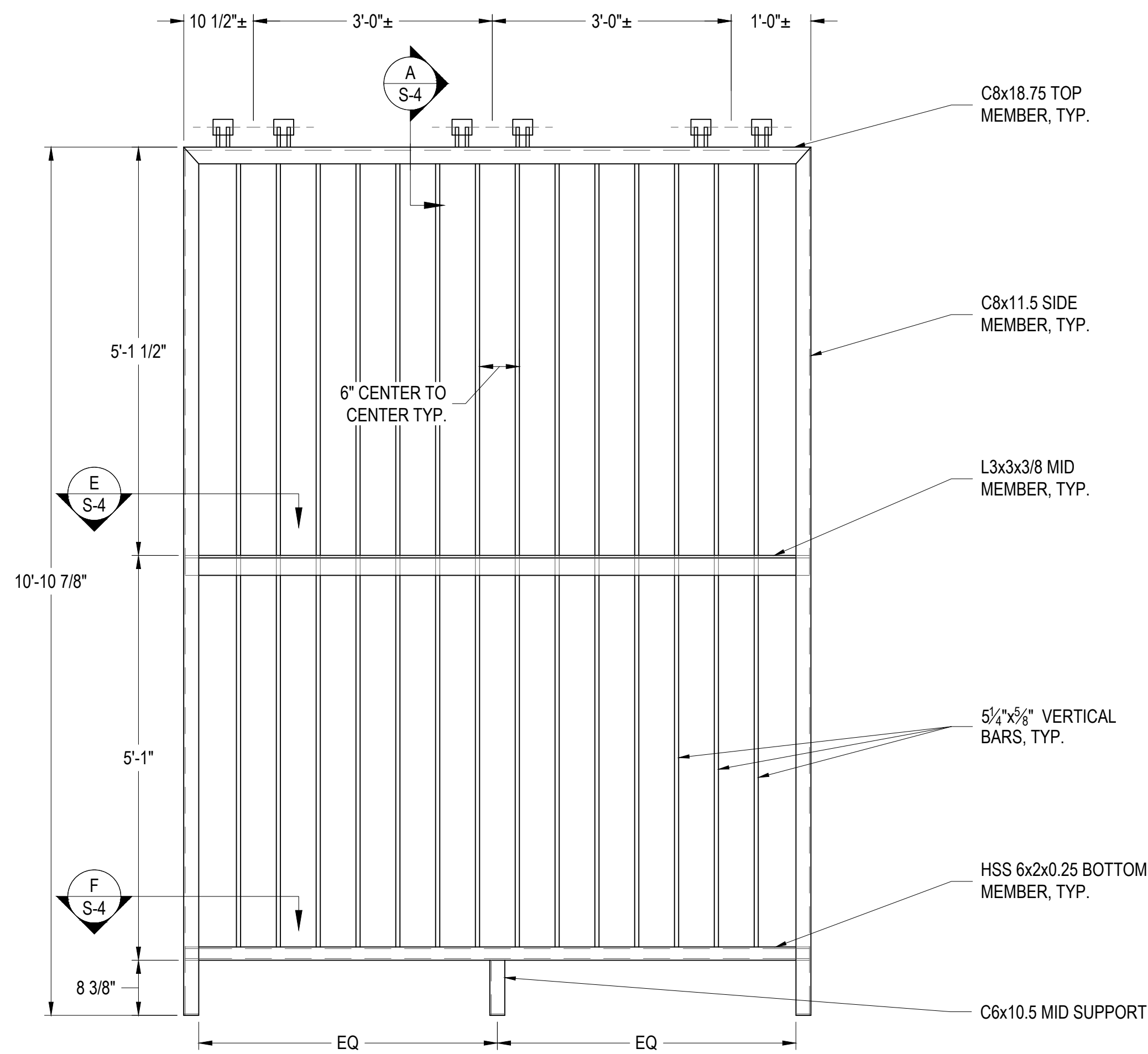
1
S-3
DISSIPATOR BOX AND BARRIER SECTION - LOOKING NORTH
1/2" = 1'-0"

DETAIL NOTES:
1. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS PRIOR TO MATERIAL FABRICATION AND INSTALLATION
2. BARRIER IS SLOPED AND SHOWN SCHEMATICALLY IN ELEVATION. DO NOT SCALE DIMENSIONS FROM THIS DETAIL. SEE SECTION 2 FOR DETAILS.



A
S-3
SLOPED PROTECTION BARRIER ELEVATION
1/2" = 1'-0"

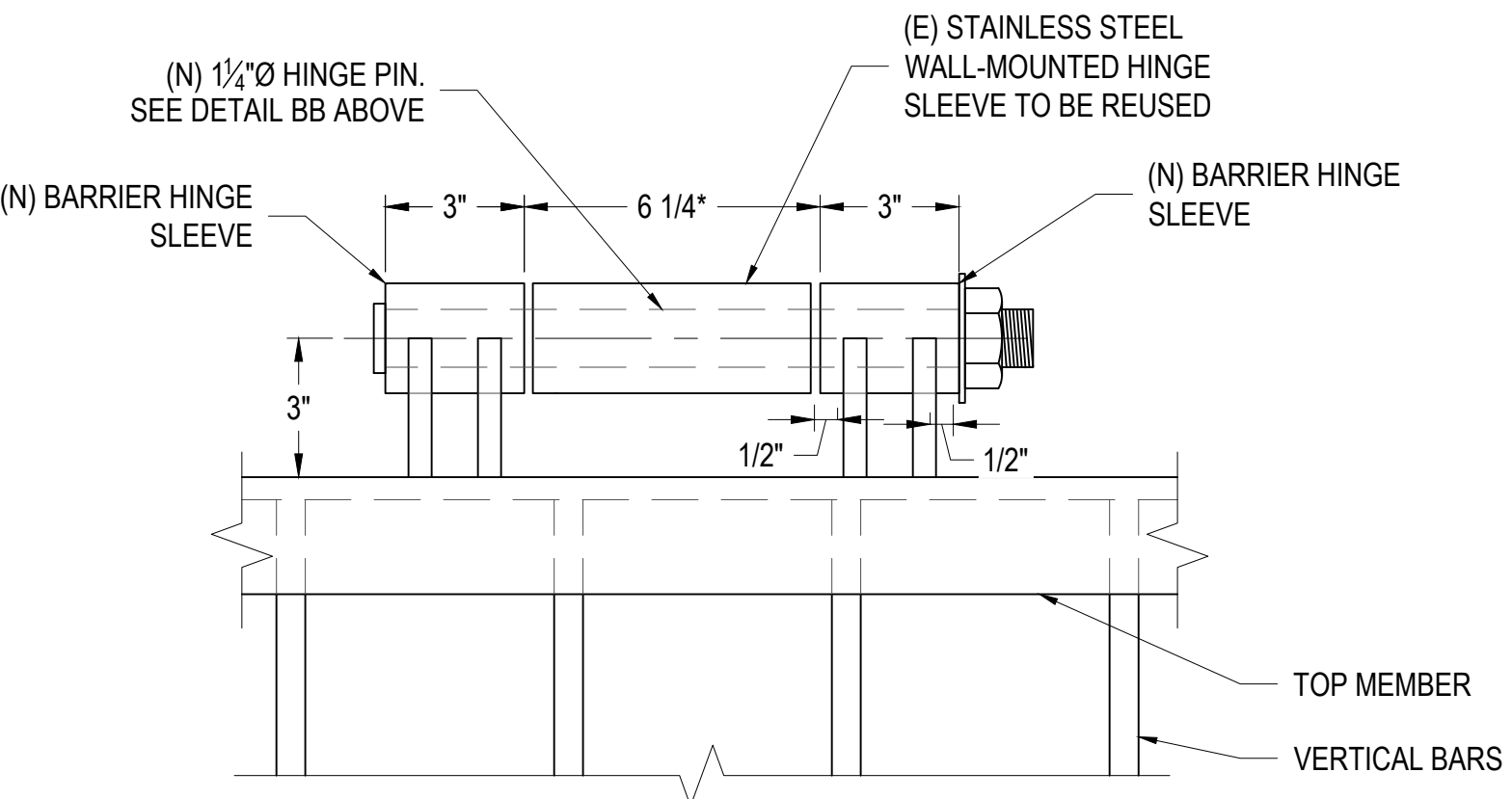
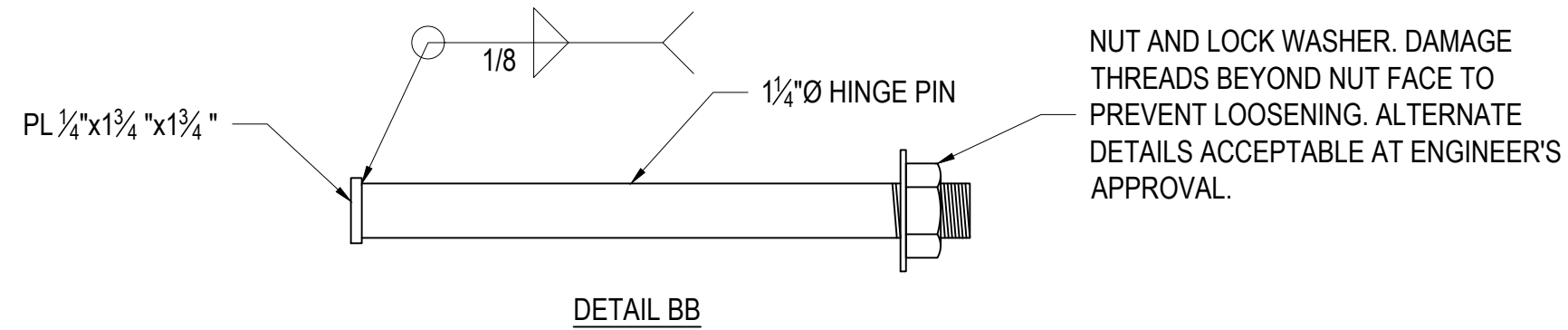
DETAIL NOTES:
1. THE SOUTH BARRIER IS SHOWN IN THIS DETAIL. THE NORTH BARRIER SHALL BE MIRRORED.
2. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS PRIOR TO MATERIAL FABRICATION AND INSTALLATION



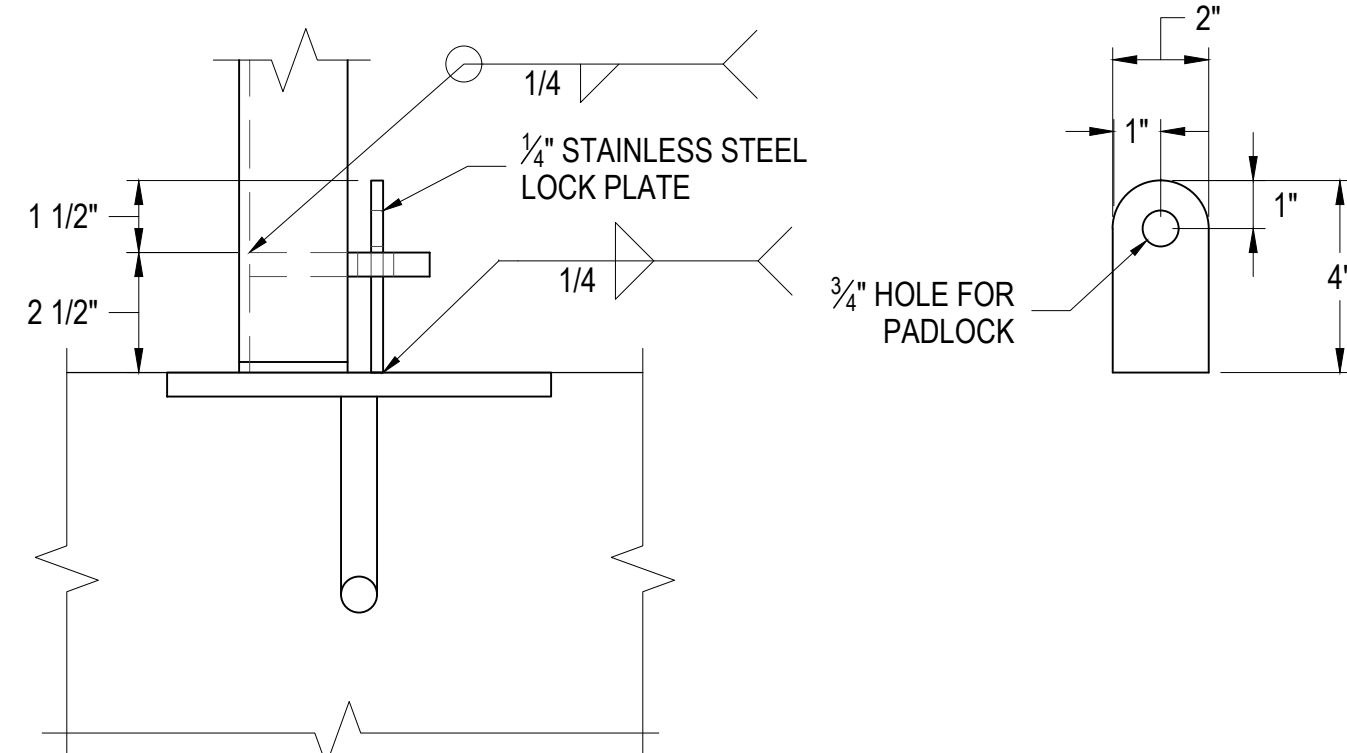
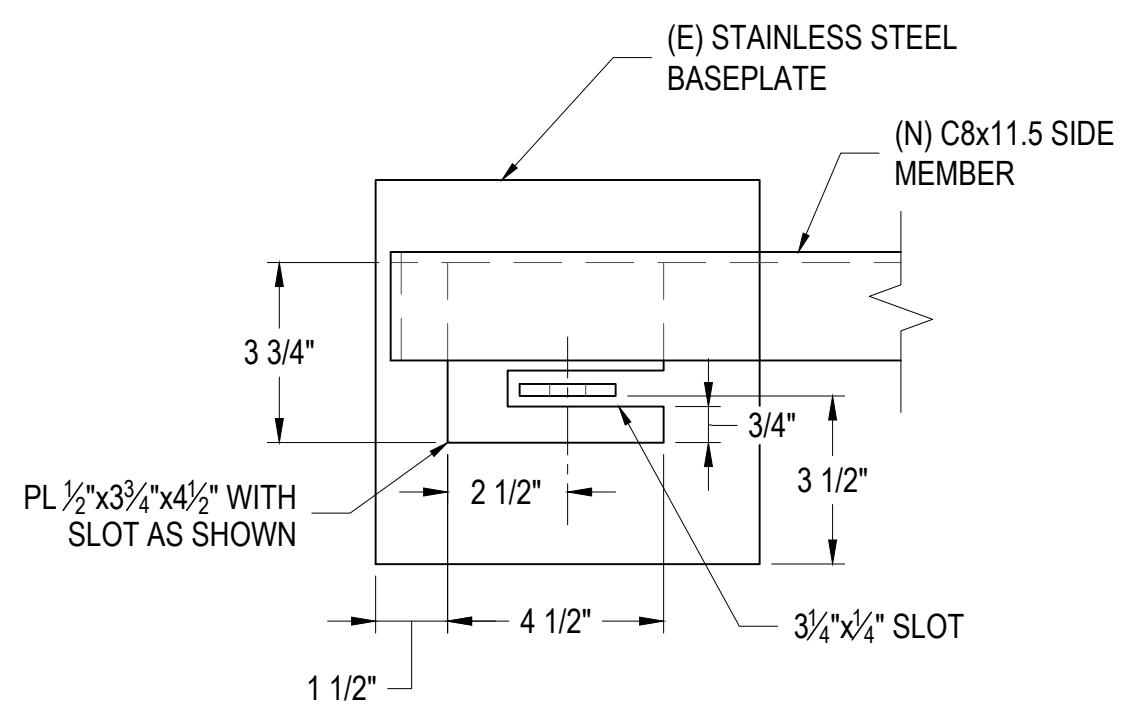
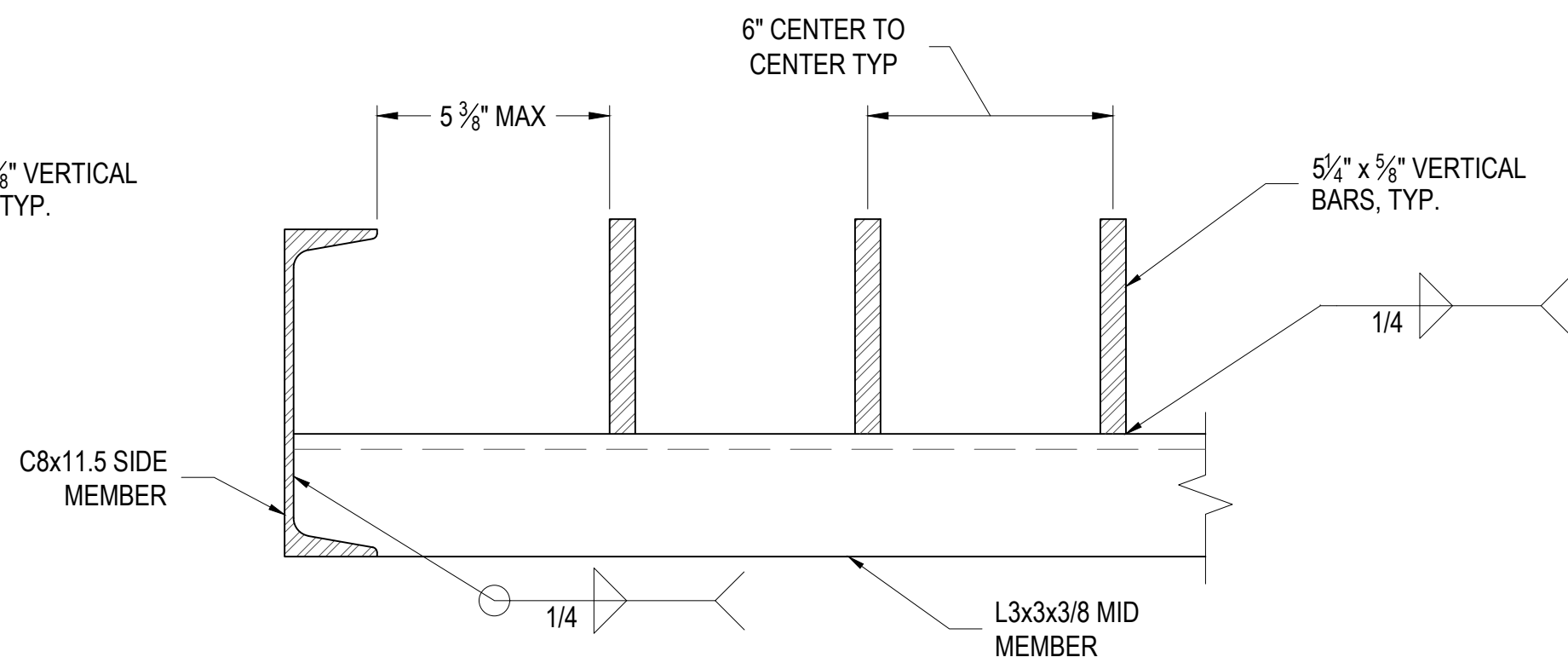
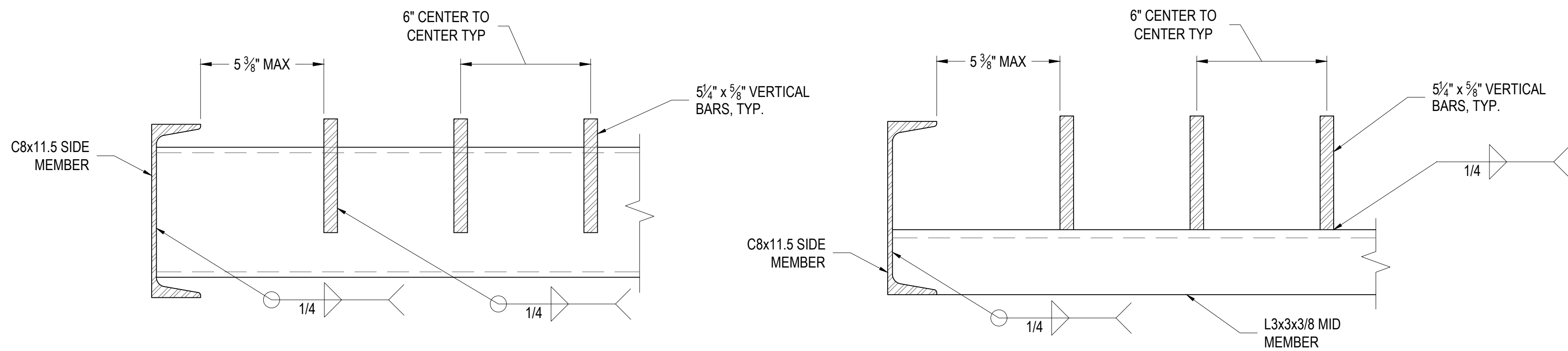
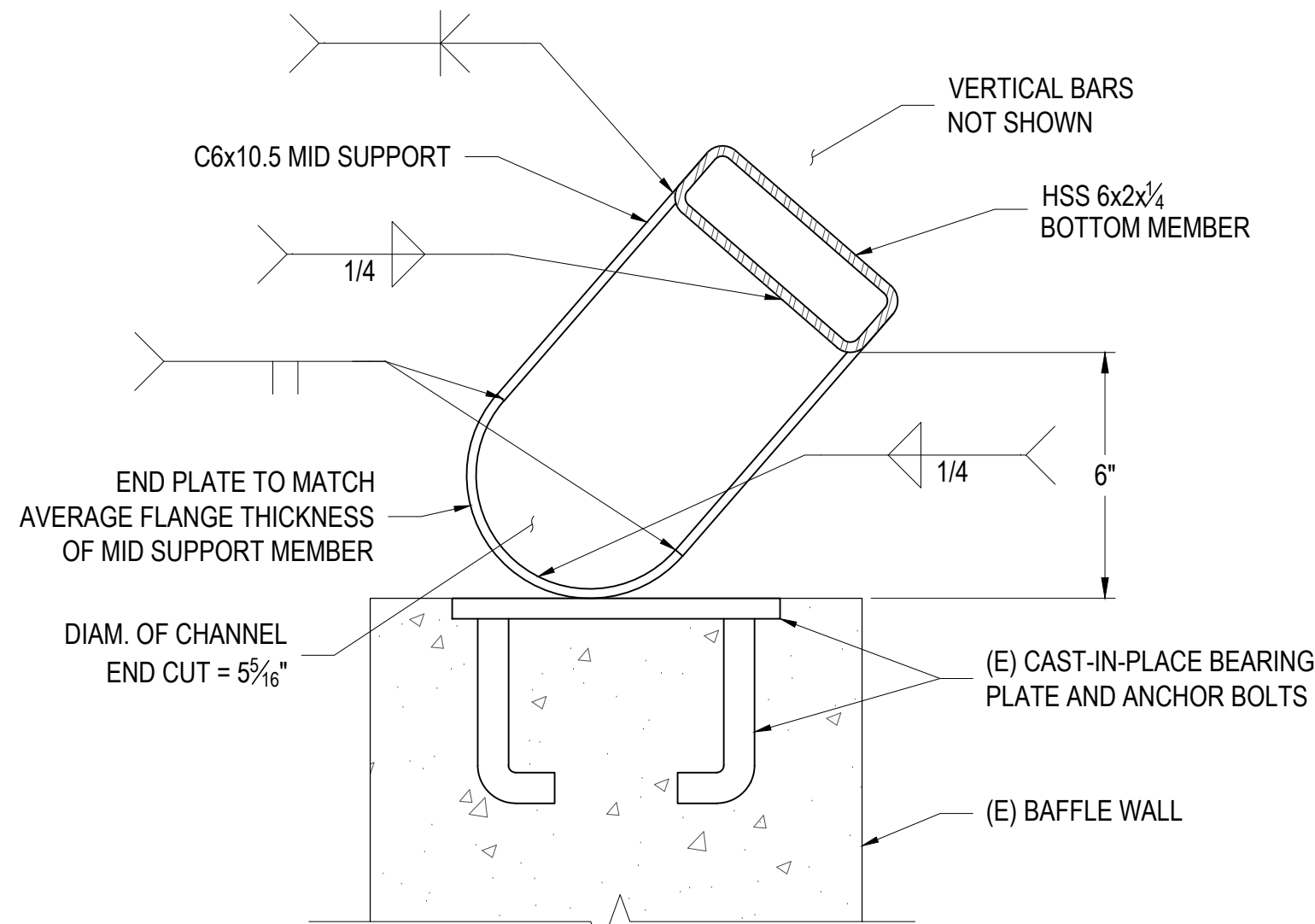
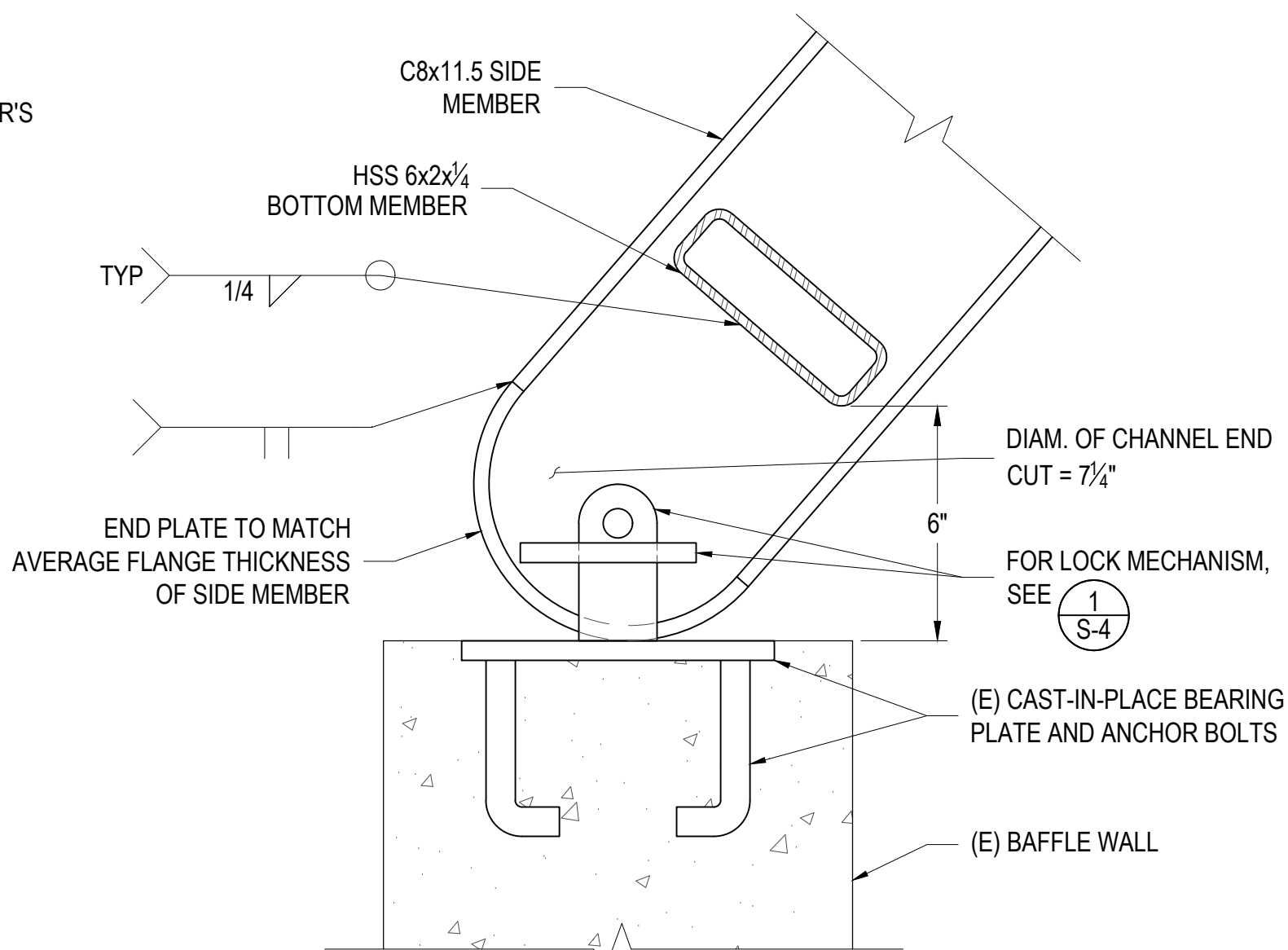
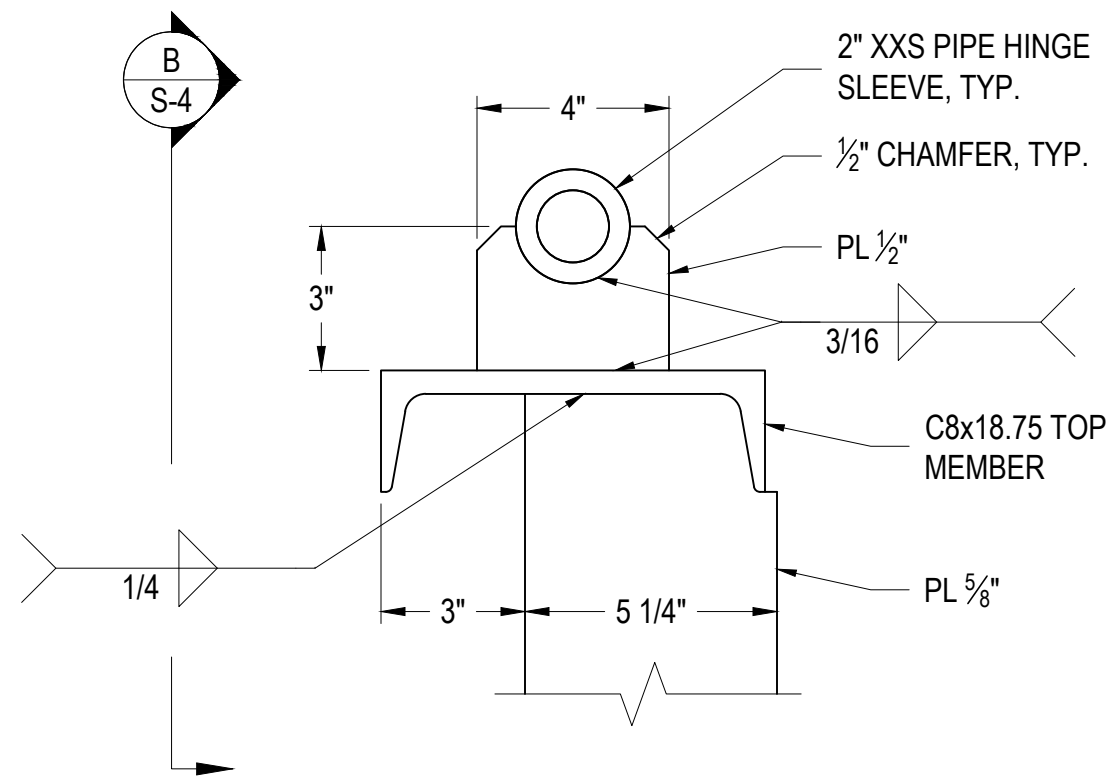
B
S-3
SLOPED PROTECTION BARRIER ELEVATION
3/4" = 1'-0"

ENGINEER OF WORK		CITY APPROVED CHANGES		APP'D	DATE	RECOMMENDED FOR APPROVAL		APPROVED FOR CONSTRUCTION		BENCH MARK		CITY OF SOLANA BEACH ENGINEERING DEPARTMENT		PROJECT NO.
By: Elliot Morris Date: 03/13/25						By: Daniel Goldberg Date: 3/20/2025		By: Daniel Goldberg, City Engineer Date: 3/20/2025		DESCRIPTION: LOCATION: ELEV.: DATUM: M.S.L.		FLETCHER COVE IMPROVEMENTS SLOPED PROTECTION BARRIER		S-3
Drawn By:														Sheet 8 of 10

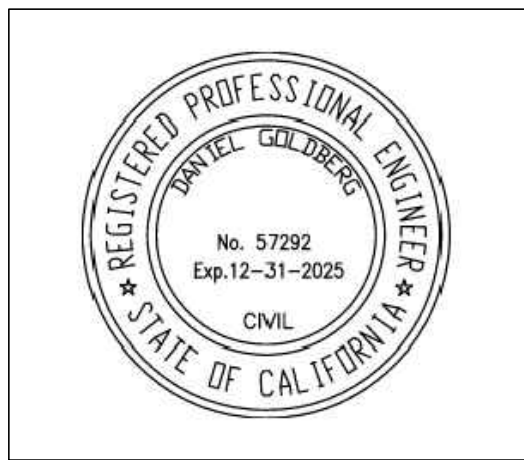
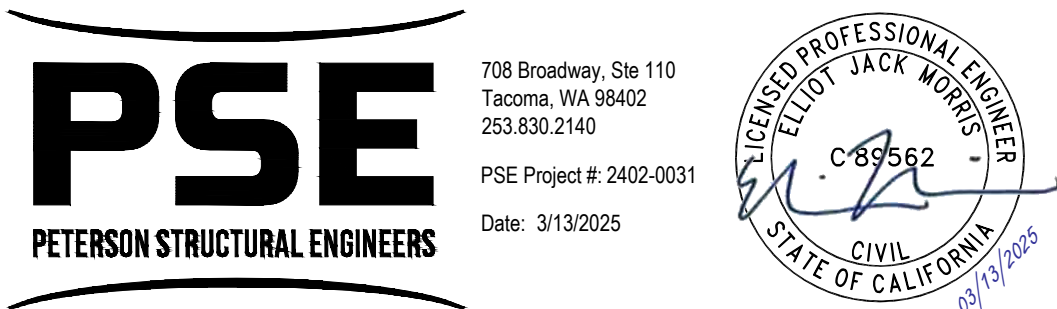
DETAIL NOTE:
1. PROVIDE ISOLATION HARDWARE BETWEEN STAINLESS STEEL AND GALVANIZED STEEL DISSIMILAR METALS. SEE STRUCTURAL STEEL GENERAL NOTE 7.





*CLEAR DISTANCE TO BE LENGTH OF EXISTING CENTER HINGE SLEEVE + 1/4".
LENGTH OF EXISTING TO BE FIELD VERIFIED PRIOR TO FABRICATION



1 S-4 LOCK MECHANISM DETAILS
3" = 1'-0"



	ENGINEER OF WORK		CITY APPROVED CHANGES	APP'D	DATE	RECOMMENDED FOR APPROVAL	APPROVED FOR CONSTRUCTION	BENCH MARK	CITY OF SOLANA BEACH	ENGINEERING DEPARTMENT	PROJECT NO.
	Drawn By	By: <u>Elliot Morris</u> Date: <u>03/13/25</u>				By: <u></u> Date: <u>3/20/2025</u>	By: <u></u> Date: <u>3/20/2025</u> Daniel Goldberg, City Engineer R.C.E.: 57292 Exp: 12/31/25	DESCRIPTION: LOCATION: ELEV.:			

