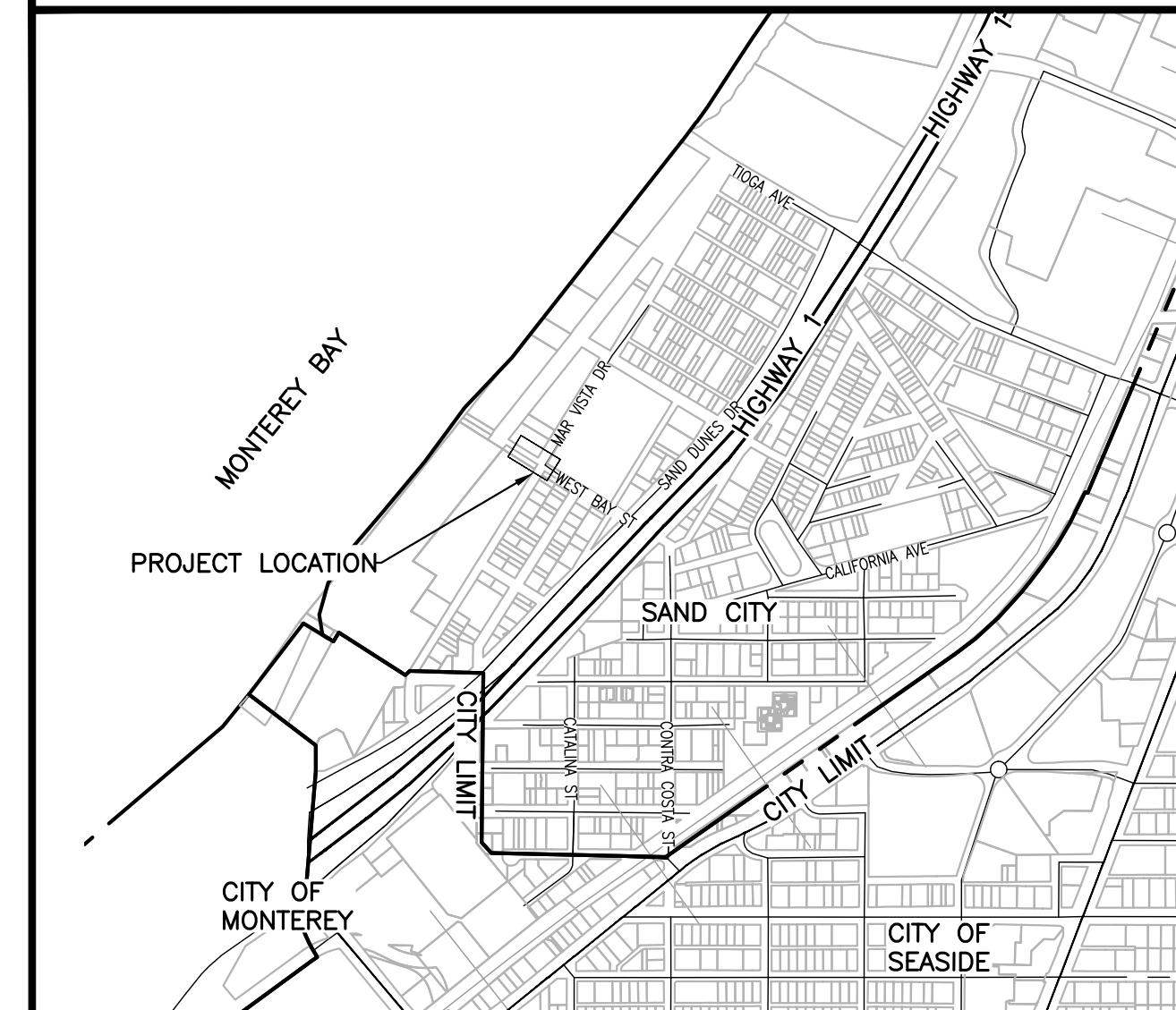




WEST BAY ST. COASTAL ACCESS REPAIR PROJECT

CITY OF SAND CITY, MONTEREY COUNTY, CALIFORNIA
 PROJECT NO. 1200673001
 JUNE 2022
 100% SUBMITTAL

LOCATION MAP



LEGEND

| EXISTING | PROPOSED |
|-------------|---------------|
| R/W | FOC |
| FOC | BOC |
| BOC | GUTTER |
| FENCE | SD |
| ELEC | SEWER |
| GAS | WATER |
| SD | SYMBOLS |
| SEWER | SEWER MANHOLE |
| WATER | SD MANHOLE |
| FEED | GRATE INLET |
| CONCENTRATE | METAL POST |
| | BOLLARD |

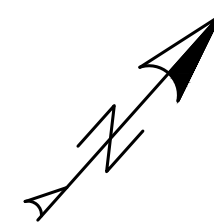
ABBREVIATIONS

| | | | |
|--------|--------------------------|--------|---|
| AB | AGGREGATE BASE | MAX | MAXIMUM |
| AC | ASPHALT CONCRETE | MID | MIDDLE |
| BC | BEGINNING OF CURVE | MIN | MINIMUM |
| BEG | BEGIN | MRSWMP | MONTEREY REGIONAL STORMWATER MANAGEMENT PROGRAM |
| BFP | BACK FLOW PREVENTER | NG | NATURAL GROUND |
| BLDG | BUILDING | NPDES | NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM |
| BMP | BEST MANAGEMENT PRACTICE | OB | OVERBUILD |
| BO | BLOW OFF VALVE | OH | OVERHEAD ELECTRIC |
| BOW | BACK OF WALK | PCC | PORTLAND CEMENT CONCRETE |
| CB | CATCH BASIN | PCR | POST-CONSTRUCTION REQUIREMENTS |
| CG&S | CURB, GUTTER, & SIDEWALK | PL | PROPERTY LINE |
| CL | CENTERLINE | PRC | POINT OF RETURN CURVE |
| CO | CLEAN OUT | PT | POINT OF TANGENCY |
| CONC | CONCRETE | PUE | PUBLIC UTILITY EASEMENT |
| COR | CORNER | PVC | POLYVINYL CHLORIDE |
| C.O.S. | CITY OF SEASIDE | RCP | REINFORCED CONCRETE PIPE |
| CR | CROWN | ROW | RIGHT OF WAY |
| DI | DROP INLET/DITCH INLET | SB | SOUND BARRIER |
| DW | DRIVEWAY | SC | SAW CUT |
| DWG | DRAWING | SCWCP | STORMWATER CONTROL PLAN |
| EC | END OF CURVE | SCSD | SEASIDE COUNTY SANITATION DISTRICT |
| EM | EASEMENT | SDMH | STORM DRAIN MANHOLE |
| EP | EDGE OF PAVEMENT | SLB | SLAB |
| ER | END OF RETURN | S.L.D. | SEE LANDSCAPE DRAWINGS |
| (E) | EXISTING | SO | SIDE OPENINGS |
| (F) | FUTURE | SS | SANITARY SEWER |
| FC | FACE OF CURB | SSMH | SANITARY SEWER MANHOLE |
| FF | FINISH FLOOR | STA | STATION |
| FG | FINISH GRADE | STD | STANDARD |
| FH | FIRE HYDRANT | TB | TOP OF BANK |
| FL | FLOW LINE | TBR | TO BE REMOVED |
| GB | GRADE BREAK | TC | TOP OF CURB |
| GRT | GRATE | TI | TRAFFIC INDEX |
| HGL | HYDRAULIC GRADE LINE | TW | TOP OF WALL |
| HL | HINGE LINE | TYP | TYPICAL |
| ICV | IRRIGATION CONTROL VALVE | UG | UNDERGROUND GAS |
| INV | INVERT | UT | UNDERGROUND TELEPHONE |
| JP | JOINT POLE | W | WATER |
| JT | JOINT TRENCH | WV | WATER VALVE |
| L | LENGTH | | |
| LID | LOW IMPACT DEVELOPMENT | | |
| LL | LOT LINE | | |
| LP | LOW POINT | | |
| LS | LANDSCAPE | | |



GENERAL MAP

SCALE: 1"=100'



PROJECT TEAM

| | |
|---------------------|--|
| OWNER | CITY OF SAND CITY 1 PENDERGRASS WAY SAND CITY, CA 93955 VIBEKE NORGAARD, ACTING CITY MANAGER TEL. 831-394-3054 |
| CIVIL ENGINEER | HARRIS & ASSOCIATES 450 LINCOLN AVE, SUITE 103 SALINAS, CA 93901 LEON GOMEZ, P.E., CITY ENGINEER TEL. 831-789-8670 |
| LANDSCAPE ARCHITECT | BFS LANDSCAPE ARCHITECTS 425 PACIFIC STREET, SUITE 201 MONTEREY, CA 93940 MIKE BELLINGER TEL. 831-646-1383 |
| BIOLOGIST | DENISE DUFFY & ASSOCIATES 947 CASS STREET, SUITE 5 MONTEREY, CA 93940 JOSH HARWAYNE TEL. 831-373-4341 |
| SURVEY | POLARIS LAND SURVEYING P.O. BOX 1378 CARMEL VALLEY, CA 93924 LYNN A. KOVACH, PLS TEL. 831-659-9564 |

PROJECT DESCRIPTION

REPAIR AND REHABILITATION OF EXISTING STREET INFRASTRUCTURE INCLUDING A CONCRETE OBSERVATION PLATFORM, BENCHES, SIGNAGE, WOODEN BOARDWALKS, ASPHALT PAVEMENT, CONCRETE CURB AND GUTTER, STORM DRAIN INLET AND INFILTRATION SYSTEM, AND MINOR GRADING TO RESTORE COASTAL ACCESS TO THE PUBLIC.

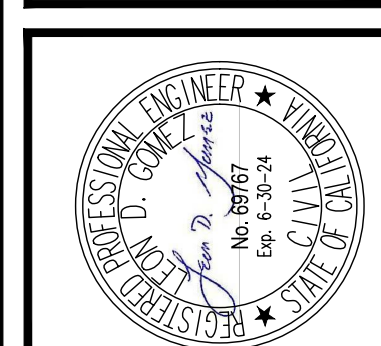
SHEET INDEX

| SHEET NO. | DRAWING NO. | TITLE |
|------------------------|-------------|-------------------------------------|
| CIVIL PLANS | | |
| 1 | C1.0 | COVER SHEET |
| 2 | C2.0 | GENERAL NOTES |
| 3 | C3.0 | WEST BAY STREET DEMOLITION PLAN |
| 4 | C4.0 | WEST BAY STREET SITE PLAN & GRADING |
| 5 | C5.0 | WEST BAY STREET DRAINAGE PLAN |
| 6 | C5.1 | WEST BAY STREET DRAINAGE DETAILS |
| 7 | C5.2 | WEST BAY STREET DRAINAGE DETAILS |
| 8 | C6.0 | WEST BAY STREET STRIPING PLAN |
| 9 | C7.0 | CONSTRUCTION DETAILS |
| 10 | C7.1 | CONSTRUCTION DETAILS |
| LANDSCAPE PLANS | | |
| 11 | L1.0 | DEMO & PRESERVATION PLAN |
| 12 | L2.0 | CONSTRUCTION PLAN |
| 13 | L3.0 | LAYOUT PLAN |
| 14 | L4.0 | CONSTRUCTION DETAILS |
| 15 | L5.0 | PLANTING PLAN |



| REVISIONS | NO. | DATE | INITIAL | DESCRIPTION |
|-----------|-----|------|---------|-------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Harris & Associates
 450 Lincoln Avenue, suite 103, Salinas, CA 93901
 p. 831.233.9242
 WeAreHarris.com



CITY OF SAND CITY
 ADDRESS 1 PENDERGRASS WAY, SAND CITY, CA 93955
 PROJECT TITLE WEST BAY ST. COASTAL ACCESS REPAIR PROJECT
 SHEET DESCRIPTION COVER SHEET

| | |
|--------------|------------|
| DESIGNED BY: | |
| DATE: | 6/22/22 |
| SCALE: | |
| PROJECT NO. | 1200673001 |
| DRAWING NO. | C1.0 |
| SHEET | 1 OF 15 |

CONTRACTOR MUST POT HOLE ALL EXISTING UTILITIES AS FIRST ORDER OF WORK PRIOR TO CONSTRUCTION OF PROPOSED IMPROVEMENTS.



GENERAL NOTES

GENERAL

1. ALL WORK AND MATERIALS SHALL COMPLY WITH THE SPECIFICATIONS, STANDARDS AND ORDINANCES OF THE CITY OF SAND CITY, CITY OF SEASIDE, AND THE STATE STANDARD SPECIFICATIONS, CITY STANDARD DRAWINGS AND DETAILS ARE AVAILABLE ONLINE.
2. ALL EXISTING IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO LANDSCAPING, FENCES, DRIVEWAYS, ACCESS ROADS, CURB, GUTTER, SIDEWALK, CULVERTS, DRAINS, AND MONUMENTS, SHALL BE RESTORED TO THE CONDITION IN WHICH THEY WERE, OR BETTER, BEFORE EXCAVATION WAS MADE. SEPARATE PAYMENT FOR RESTORATION OF EXISTING IMPROVEMENTS TO THEIR ORIGINAL CONDITION WILL NOT BE MADE. COMPENSATION FOR THIS TASK SHALL BE CONSIDERED AS INCLUDED IN THE VARIOUS BID ITEMS OF WORK INVOLVED. SOME EXISTING IMPROVEMENTS MAY NOT BE INCLUDED ON PLANS. CONTRACTOR SHALL INSPECT THE SITE IN ORDER TO SATISFY HIMSELF/HERSELF OF THE ACTUAL EXISTING SITE CONDITIONS.
3. VEGETATION AND IMPROVEMENTS SHALL BE REMOVED ONLY WHEN DIRECTED IN WRITING BY THE ENGINEER. NO TREES, VEGETATION OR IMPROVEMENTS (INCLUDING FENCES) SHALL BE REMOVED WITHOUT THE PRIOR WRITTEN CONSENT AND APPROVAL OF THE ENGINEER OR UNLESS OTHERWISE SPECIFIED IN THIS PLAN SET.
4. ALL EXISTING UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE CITY.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN, INSTALLATION, AND REMOVAL OF ALL REQUIRED SHORING, SHEETING, AND BRACING, PER STATE AND FEDERAL REQUIREMENTS.
6. CONTRACTOR SHALL AT ALL TIMES HAVE AT THE JOB SITE SUFFICIENT PUMPING EQUIPMENT READY FOR IMMEDIATE USE. THE TRENCHES AND EXCAVATIONS SHALL BE KEPT ENTIRELY FREE OF WATER. WATER SHALL BE DISPOSED OF IN SUCH A MANNER AS WILL NOT CAUSE INJURY TO PUBLIC OR PRIVATE PROPERTY, NOR BE A MENACE TO PUBLIC HEALTH.
7. NO OPEN TRENCHES SHALL BE ALLOWED AT THE END OF ANY CONSTRUCTION WORK DAY. ALL EXCAVATIONS SHALL BE FILLED IN WITH TEMPORARY PAVING AT THE END OF EACH WORK DAY.
8. CONTRACTOR SHALL CONFINE HIS OPERATIONS AND ACTIVITIES WITHIN THE PROJECT LIMITS CONSISTING OF EASEMENTS, ROAD RIGHT-OF-WAY, AND RIGHTS OF ENTRY AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
9. THE EXACT LOCATION OF PROPOSED FACILITIES MAY BE FIELD ADJUSTED IF PROPOSED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
10. IF ARCHAEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING, TRENCHING, OR OTHER EXCAVATION, EARTHWORK WITHIN 100 FEET OF THIS AREA SHALL BE STOPPED UNTIL A PROFESSIONAL ARCHAEOLOGIST WHO IS CERTIFIED BY THE SOCIETY FOR CALIFORNIA ARCHAEOLOGY (SCA) OR THE SOCIETY OF PROFESSIONAL ARCHAEOLOGISTS (SOPA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND SUGGEST APPROPRIATE MITIGATION MEASURES, IF THEY ARE DEEMED NECESSARY.
11. ALL SEWER MAINS AND SERVICES SHALL BE SEPARATED FROM WATER MAINS AND SERVICES PER STATE HEALTH DEPARTMENT STANDARDS.
12. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND ACQUIRING LAYDOWN AREA TO BE USED FOR STAGING AND MATERIAL STORAGE DURING CONSTRUCTION.
13. FACILITIES DISTURBED DURING CONSTRUCTION SHALL BE RE-INSTALLED IN ACCORDANCE WITH RESPECTIVE CITY STANDARD DETAILS. THE EXACT LOCATION MAY BE FIELD ADJUSTED IF REQUESTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

PERMITS

14. THE CONTRACTOR SHALL NOTIFY CITY INSPECTOR AT LEAST 48 HOURS IN ADVANCE OF ANY WORK THAT WILL REQUIRE INSPECTION BY THE RESPECTIVE UTILITY COMPANIES. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, NATURAL GAS, ELECTRICAL, TELEPHONE, AND CABLE TELEVISION, FIBER OPTICS CABLES, ETC.
15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AND LICENSES TO PERFORM THE IMPROVEMENTS IN THESE PLANS FROM THE APPROPRIATE AGENCIES AND TO COMPLY WITH THE AGENCIES' REQUIREMENTS. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL LAWS.

SAFETY

21. SAFETY MEASURES: AT ALL TIMES, INCLUDING NON-WORKING HOURS, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, CONTRACTOR'S OPERATION, AND/OR MATERIALS AND EQUIPMENT STORED IN THE STAGING AREAS, INCLUDING SAFETY OF PERSONS AND PROPERTY, AND FOR ALL NECESSARY INDEPENDENT ENGINEERING REVIEWS OF THE CONDITIONS. THE ENGINEER'S JOB SITE REVIEW IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.
22. WARNING! THE EXISTING SANITARY SEWERS ARE KNOWN TO HAVE HIGH CONCENTRATIONS OF TOXIC AND/OR EXPLOSIVE GASES. OTHER PIPELINES MAY ALSO HAVE TOXIC AND/OR EXPLOSIVE GASES. SEWER WASTEWATER MAY CONTAIN INFECTIOUS AND/OR CONTAGIOUS DISEASES AND THE CONTRACTOR SHALL OBSERVE ALL NECESSARY PRECAUTIONS.
23. MANHOLE ENTRY AND/OR ENTRY TO ANY EXCAVATION GREATER THAN FOUR (4) FEET DEEP SHALL BE IN FULL COMPLIANCE WITH THE CONFINED SPACE ENTRY REQUIREMENTS OF CALIFORNIA AND FEDERAL OSHA.

TRAFFIC CONTROL

16. THE CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROLS INCLUDING FLAG PERSONS AND CHANGEABLE MESSAGE SIGNS. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE CITY A PROJECT SPECIFIC TRAFFIC CONTROL PLAN PER SPECIFICATIONS FOR REVIEW AND APPROVAL PRIOR TO THE START OF WORK. THE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY A REGISTERED CIVIL ENGINEER OR A LICENSED TRAFFIC ENGINEER IN THE STATE OF CALIFORNIA. THE CITY RESERVES THE RIGHT TO REQUIRE MODIFICATIONS TO THE APPROVED PLAN IN THE FIELD. WORK SHALL NOT BEGIN UNTIL ADEQUATE TEMPORARY BARRICADES, BARRIERS, FENCES, WARNING SIGNS, LIGHTS, OR OTHER SUCH TRAFFIC AND PEDESTRIAN WARNING AND CONTROL DEVICES ARE INSTALLED AS REQUIRED BY THE TRAFFIC CONTROL PLAN.
17. ACCESS TO EACH PROPERTY SHALL BE PROVIDED AT ALL TIMES. IF DURING THE COURSE OF CONSTRUCTION IT BECOMES NECESSARY TO RESTRICT ACCESS TO A GIVEN PROPERTY IN ORDER TO COMPLETE PROJECT IMPROVEMENTS, CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER AFTER OBTAINING APPROVAL FROM THE CITY.
18. CONTRACTOR SHALL MAINTAIN CONTINUOUS PEDESTRIAN ACCESS TO ALL ADJACENT PROPERTIES THROUGHOUT DURATION OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY WALKWAY FACILITIES AND GUIDANCE SIGNAGE TO DIRECT THE PUBLIC THROUGH OR AROUND ACTIVE CONSTRUCTION.
19. CONTRACTOR SHALL TAKE SPECIAL MEASURES TO CLEAN UP THE CONSTRUCTION SITE AND PROVIDE SMOOTH TRANSITION TO ALL ACTIVE CONSTRUCTION AREAS.
20. NO MATERIALS OR EQUIPMENT SHALL BE STORED WITHIN THE PUBLIC RIGHT-OF-WAY.

STREET SURFACE NOTES

28. REPLACEMENT ASPHALT CONCRETE THICKNESS SHALL MATCH EXISTING.
29. THE CONTRACTOR SHALL NOT ORDER NOR PLACE ANY PORTLAND CEMENT CONCRETE OR ASPHALT CONCRETE PAVING UNTIL THE FORMS AND SUBGRADE AND/OR AGGREGATE BASE HAVE BEEN INSPECTED BY THE CITY AND APPROVED BY THE CITY.
30. EDGE OF EXISTING ASPHALT PAVEMENT SHALL BE TACK COATED PRIOR TO CONSTRUCTION OF NEW ADJACENT ASPHALT PAVEMENT.
31. THE FINAL OR SURFACE LAYER OF ASPHALT CONCRETE SHALL NOT BE PLACED UNTIL ALL ON-SITE IMPROVEMENTS HAVE BEEN COMPLETED AND UNTIL ALL UNACCEPTABLE CONCRETE WORK HAS BEEN REMOVED AND REPLACED, UNLESS OTHERWISE APPROVED BY THE CITY.

POLLUTION PREVENTION

32. THE CONTRACTOR SHALL COMPLY WITH THE CITY'S NON-POINT SOURCE POLLUTION PREVENTION ORDINANCE AND THE STORM WATER POLLUTION PREVENTION PLAN BEST MANAGEMENT PRACTICES (BMP) FOR THIS PROJECT.

UTILITIES

24. THE HORIZONTAL AND VERTICAL LOCATIONS AND TYPES OF EXISTING UTILITIES SHOWN ON THE IMPROVEMENT PLANS ARE BASED ON SURVEY AND INFORMATION FURNISHED BY SERVICING AGENCIES AND ARE TO BE SUPPLEMENTED BY ACTUAL FIELD INVESTIGATIONS AND VERIFICATIONS BY CONTRACTOR. CONTRACTOR SHALL DETERMINE DEPTHS AND EXACT LOCATIONS OF EXISTING SERVICES WHETHER SHOWN ON THE PLANS OR NOT. CONTRACTOR SHALL AVOID DAMAGES TO EXISTING UTILITIES ENCOUNTERED. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY THE CONTRACT SHALL BE PREPARED AT THE CONTRACTOR'S EXPENSE. ANY ADDITIONAL COSTS IF INCURRED, AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY, SHALL BE BORNE BY THE CONTRACTOR. CONTRACTOR SHALL NOTIFY THE UTILITY AGENCIES AND UNDERGROUND SERVICE ALERT (USA) AT (900) 227-2600 AT LEAST TWO (2) WORKING DAYS PRIOR TO EXCAVATING.
25. THE CONTRACTOR SHALL EXERCISE NECESSARY CAUTION WHEN WORKING NEAR ALL EXISTING UTILITIES. ALL EXISTING UTILITIES, IMPROVEMENTS, STREETS, STREET MARKINGS & REFLECTORS, AND SIDEWALKS THAT BECOME DAMAGED DURING CONSTRUCTION OR ANY ACTIVITY BY CONTRACTOR OR CONTRACTOR'S REPRESENTATIVE IN ASSOCIATION WITH THIS WORK SHALL BE COMPLETELY RESTORED IN ACCORDANCE WITH STANDARDS AND REQUIREMENTS OF THE FACILITIES' OWNER, TO THE SATISFACTION OF THE CITY, AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO BOTH THE OWNER AND THE CITY.
26. EXISTING SERVICES TO THE PROPERTIES MUST BE MAINTAINED BY CONTRACTOR AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE PROPERTY OWNERS OF ANY INTERRUPTION OF SERVICES PRIOR TO ANY WORK ON EXISTING UTILITY LINES.
27. THE CONTRACTOR SHALL PROVIDE ACCESS TO UTILITY COMPANIES FOR MAINTENANCE AND WORK ON THEIR UTILITIES DURING THE COURSE OF THE WORK.
28. ALL VALVE BOXES AND MANHOLES, IF ANY, SHALL BE ADJUSTED TO GRADE, UNLESS OTHERWISE NOTED.

SURVEY MONUMENTS

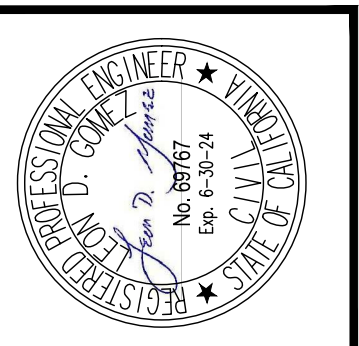
33. THE CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION AND OR PERPETUATION OF ALL EXISTING MONUMENTS AND STAKES WITHIN THE CONTRACTOR'S AREA OF WORK. THE CONTRACTOR SHALL NOT DISTURB OR REMOVE ANY MONUMENTS OR STAKES WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER, AND SHALL BEAR THE EXPENSE OF RESETTling ANY MONUMENTS OR STAKES WHICH MAY BE DISTURBED OR REMOVED WITH OR WITHOUT PERMISSION. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 15 WORKING DAYS NOTICE TO THE CITY ENGINEER PRIOR TO DISTURBANCE OR REMOVAL OF EXISTING MONUMENTS OR STAKES. THE CONTRACTOR SHALL UTILIZE THE SERVICES OF A CALIFORNIA LICENSED LAND SURVEYOR TO RESET ALL DISTURBED OR REMOVED MONUMENTS AND STAKES OR PROVIDE WITNESS MONUMENTS, PREPARE ALL REQUIRED DOCUMENTATION AND RECORDS, AND FILE THE REQUIRED DOCUMENTATION AND RECORDS WITH THE MONTEREY COUNTY SURVEYOR.



| REVISIONS | NO. | DATE | INITIAL | DESCRIPTION |
|-----------|-----|------|---------|-------------|
| | | | | |

Harris & Associates

450 Lincoln Avenue, suite 103, Salinas, CA 93901
 p. 831.233.9242
 WeAreHarris.com



CITY OF SAND CITY
 ADDRESS 1 PENDERGRASS WAY, SAND CITY, CA 93955
 PROJECT TITLE WEST BAY ST. COASTAL ACCESS REPAIR PROJECT
 SHEET DESCRIPTION GENERAL NOTES

| |
|---------------------------|
| DESIGNED BY: |
| DATE: 6/22/22 |
| SCALE: |
| PROJECT NO. 1200673001 |
| DRAWING NO. C2.0 |
| SHEET 2 OF 15 |



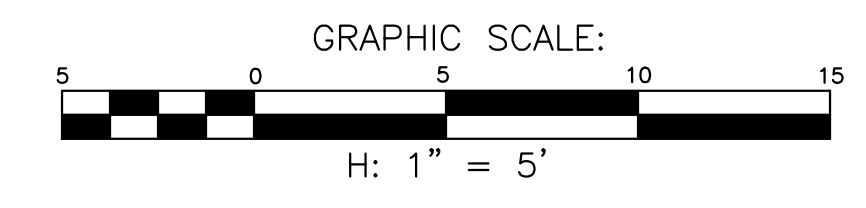
PLAN
SCALE: 1"=5'

DEMO CONSTRUCTION NOTES:

- P** PROTECT IN PLACE.
- 1** SAWCUT LIMITS.
- 2** REMOVE AND OFF-HAUL EXISTING PAVEMENT.
- 3** REMOVE AND OFF-HAUL EXISTING CONCRETE PAD.
- 4** SAWCUT AND REMOVE EXISTING VERTICAL CURB.
- 5** SAWCUT AND REMOVE EXISTING CURB AND GUTTER.
- 6** REMOVE AND OFF-HAUL EXISTING VALLEY GUTTER.
- 7** REMOVE EXISTING STORM DRAIN CATCH BASIN.
- 8** REMOVE EXISTING STORMWATER INFILTRATION UNIT AND COVER.
- 9** EXISTING FENCE TO BE RELOCATED. SEE SITE PLAN SHEET C4.0 FOR NEW LOCATION.
- 10** EXISTING PET STATION TO BE RELOCATED. SEE SITE PLAN SHEET C4.0 FOR NEW LOCATION.
- 11** EXISTING BIKE POST TO BE REMOVED AND SALVAGED.
- 12** PROTECT AND DO NOT DISTURB ENVIRONMENTALLY SENSITIVE HABITAT. THE LOCATIONS AND AREAS OF SENSITIVE HABITAT SHOWN ON THIS PLAN ARE BASED ON A FIELD SURVEY PERFORMED BY DENISE DUFFY & ASSOCIATES SHOWN ON THE MAP ENTITLED, "FIGURE 1" DATED 6/13/18.

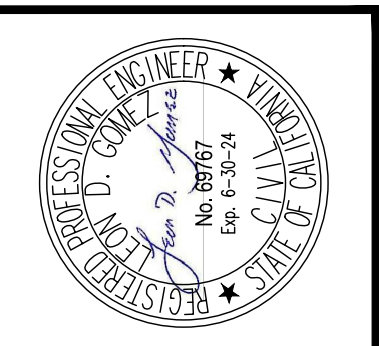
LEGEND:

- EXISTING PAVEMENT TO BE REMOVED AND OFF-HAULED.
- EXISTING CONCRETE TO BE REMOVED AND OFF-HAULED.
- ENVIRONMENTALLY SENSITIVE HABITAT. PROTECT AND DO NOT DISTURB.



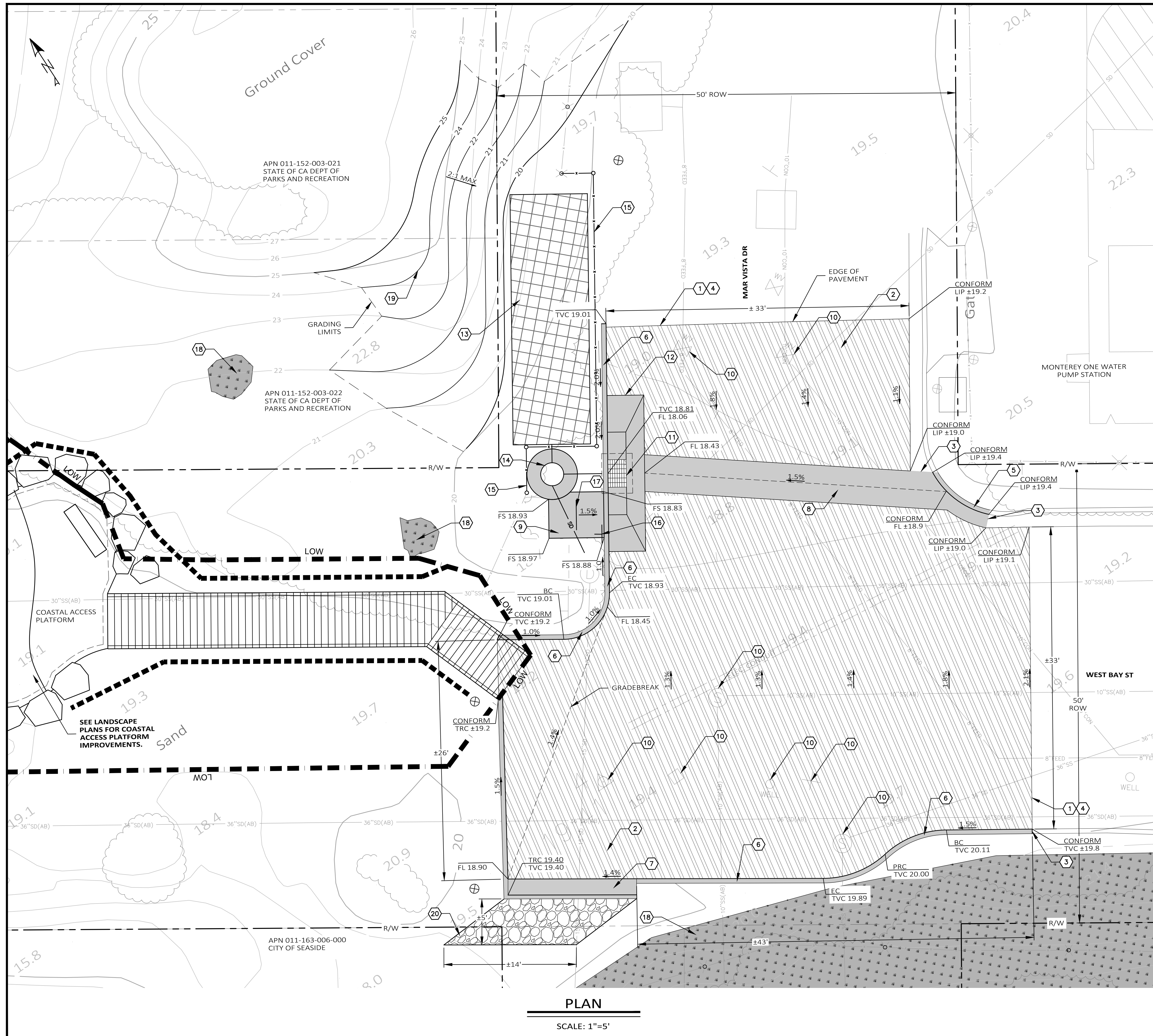
| REVISIONS | NO. | DATE | INITIAL | DESCRIPTION |
|-----------|-----|------|---------|-------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Harris & Associates
 450 Lincoln Avenue, suite 103, Salinas, CA 93901
 p. 831.233.9242
 WeAreHarris.com



CITY OF SAND CITY
 ADDRESS 1 PENDERGRASS WAY, SAND CITY, CA 93955
 PROJECT TITLE WEST BAY ST. COASTAL ACCESS REPAIR PROJECT
 SHEET DESCRIPTION WEST BAY STREET DEMOLITION PLAN

DESIGNED BY:
 DATE: 6/22/22
 SCALE:
 PROJECT NO. 1200673001
 DRAWING NO. C3.0
 SHEET 3 OF 15



PLAN
SCALE: 1"=5'

CONSTRUCTION NOTES:

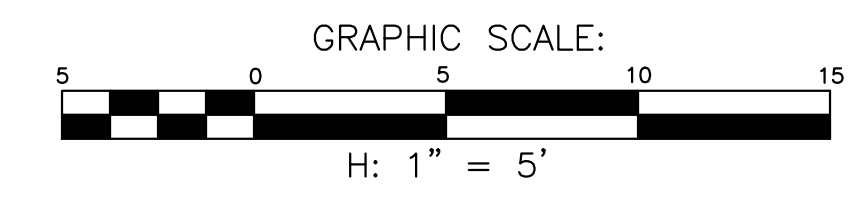
- 1 LIMITS OF WORK FOR ROADWAY IMPROVEMENTS.
- 2 GRIND (E) PAVEMENT (AC AND AB) TO A DEPTH OF 6". GRIND, REPLACE, SHAPE, AND COMPACT AB TO VARIABLE DEPTH AS NEEDED PER PLAN AND APPLY 2" OF NEW AC TO MATCH FINISH GRADE PER PLAN. REFER TO DETAIL 1 ON SHEET C7.0. EXACT LIMITS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 3 LIMIT OF CONCRETE WORK. SAW CUT (E) CURB AND GUTTER. NEW CONCRETE SHALL CONFORM TO (E) CONCRETE.
- 4 LIMIT OF ASPHALT WORK. SAW CUT (E) A.C. PAVEMENT. NEW PAVEMENT SHALL CONFORM TO (E) A.C. PAVEMENT.
- 5 CONSTRUCT NEW COMBINATION CURB AND GUTTER PER DETAIL 2 ON SHEET C7.0.
- 6 CONSTRUCT NEW "TYPE A1-6" VERTICAL CURB PER CALTRANS 2018 STANDARD PLAN A87A. REFER TO DETAIL 3 ON SHEET C7.0.
- 7 CONSTRUCT NEW "TYPE D-6" ROLLED CURB PER CALTRANS 2018 STANDARD PLAN A87A. REFER TO DETAIL 3 ON SHEET C7.0.
- 8 CONSTRUCT NEW VALLEY GUTTER PER DETAIL 4 ON SHEET C7.0.
- 9 CONSTRUCT NEW SIDEWALK PER DETAIL 2 ON SHEET C7.0.
- 10 ADJUST EXISTING UTILITY MANHOLE OR COVER TO NEW FINISH GRADE.
- 11 CONSTRUCT NEW CATCH BASIN "TYPE GO" AS INDICATED ON PLANS AND PER 2018 CALTRANS STANDARDS PLAN D73E. REFER TO DETAIL 5 ON SHEET C7.0.
- 12 CONSTRUCT CONCRETE GUTTER DEPRESSION FOR "TYPE GO" INLET AS INDICATED ON PLANS AND PER 2018 CALTRANS STANDARDS PLAN D73A. REFER TO DETAIL 6 ON SHEET C7.1.
- 13 INSTALL ADS MC3500 UNDERGROUND CHAMBER INFILTRATION SYSTEM. REFER TO DRAINAGE PLAN AND DETAILS ON SHEETS C5.0 - C5.2.
- 14 INSTALL 30" ADS NYOPLAST DRAIN BASIN AND CONCRETE COLLAR. REFER TO DRAINAGE PLAN AND DETAILS ON SHEETS C5.0 - C5.2.
- 15 RELOCATE EXISTING FENCE. REFER TO DEMOLITION SHEET C3.0 FOR EXISTING FENCE ALIGNMENT.
- 16 RELOCATE EXISTING PET STATION. REFER TO DEMOLITION SHEET C3.0 FOR EXISTING PET STATION LOCATION.
- 17 INSTALL BIKE RACK. SPECIFIC BIKE RACK STYLE TO BE DETERMINED BY CITY ENGINEER.
- 18 PROTECT AND DO NOT DISTURB ENVIRONMENTALLY SENSITIVE HABITAT. THE LOCATIONS AND AREAS OF SENSITIVE HABITAT SHOWN ON THIS PLAN ARE BASED ON A FIELD SURVEY PERFORMED BY DENISE DUFFY & ASSOCIATES SHOWN ON THE MAP ENTITLED, "FIGURE 1" DATED 6/13/18.
- 19 GRADE SURFACE TO FINISH GRADE AT A 2:1 MAXIMUM SLOPE PER PLAN. CONTRACTOR TO COORDINATE WITH SITE BIOLOGIST TO ACCOMMODATE FOR ENVIRONMENTALLY SENSITIVE HABITAT DURING GRADING ACTIVITIES.
- 20 INSTALL 12" BASE ROCK AT A DEPTH OF 24 INCHES AND COVER WITH NATIVE SOIL.

LEGEND:

- PROPOSED ASPHALT PAVEMENT IMPROVEMENTS
- PROPOSED CONCRETE IMPROVEMENTS.
- ENVIRONMENTALLY SENSITIVE HABITAT. PROTECT AND DO NOT DISTURB.
- PROPOSED 12" BASEROCK

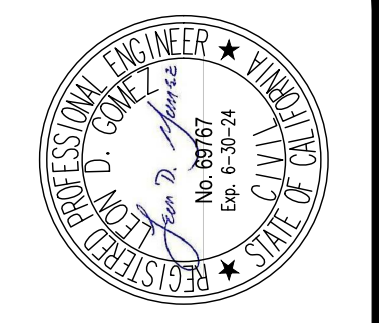
| LINE TABLE | | |
|------------|--------|-------------|
| LINE# | LENGTH | BEARING |
| L1 | 9.35' | S55°54'11"E |
| L2 | 34.32' | S55°25'28"E |
| L3 | 19.97' | S32°59'38"W |
| L4 | 7.25' | S55°42'54"E |
| L5 | 29.31' | N33°58'10"E |

| CURVE TABLE | | | |
|-------------|------|--------|-----------|
| CURVE# | DESC | RADIUS | DELTA |
| C1 | FOC | 10.00' | 41°58'15" |
| C2 | FOC | 10.00' | 42°26'59" |
| C3 | FOC | 5.00' | 90°18'56" |



| REVISIONS | |
|-----------|-------------|
| NO. | DESCRIPTION |
| | |
| | |
| | |
| | |

Harris & Associates
450 Lincoln Avenue, suite 103, Salinas, CA 93901
p. 831.233.9242
WeAreHarris.com



CITY OF SAND CITY
ADDRESS 1 PENDERGRASS WAY, SAND CITY, CA 93955
PROJECT TITLE WEST BAY ST. COASTAL ACCESS REPAIR PROJECT
SHEET DESCRIPTION WEST BAY STREET SITE PLAN & GRADING

DESIGNED BY:
DATE: 6/22/22
SCALE:
PROJECT NO.
1200673001
DRAWING NO.
C4.0
SHEET 4 OF 15

BID SET

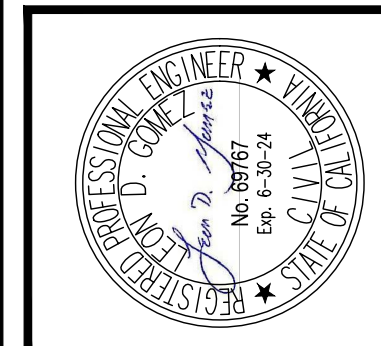


CONSTRUCTION NOTES:

- 1 CONSTRUCT NEW STORM DRAIN PIPE. PIPE SHALL BE TRENCHED AND BACKFILLED PER DETAIL 8 ON SHEET 7.1. REFER TO PROFILE SECTIONS A-A AND B-B ON THIS SHEET FOR PIPE SIZE, LENGTH, MATERIAL, AND INVERT ELEVATIONS.
- 2 CONSTRUCT NEW CATCH BASIN "TYPE GO" AS INDICATED ON PLANS AND PER 2018 CALTRANS STANDARDS PLAN D73E. REFER TO DETAIL 5 ON SHEET C7.0.
- 3 CONSTRUCT CONCRETE GUTTER DEPRESSION FOR "TYPE GO" INLET AS INDICATED ON PLANS AND PER 2018 CALTRANS STANDARDS PLAN D78A. REFER TO DETAIL 6 ON SHEET C7.1.
- 4 EXISTING STORM DRAIN MANHOLE TO REMAIN, PROTECT IN PLACE. CONNECT NEW STORM DRAIN PIPE TO EXISTING MANHOLE. REFER TO DETAIL 7 ON SHEET C7.1.
- 5 INSTALL ADS MC3500 UNDERGROUND CHAMBER INFILTRATION SYSTEM. REFER TO DRAINAGE DETAILS ON SHEETS C5.1 - C5.2.
- 6 INSTALL 30" ADS NYOPLAST DRAIN BASIN AND CONCRETE COLLAR. REFER TO DRAINAGE DETAILS ON SHEETS C5.1 - C5.2.

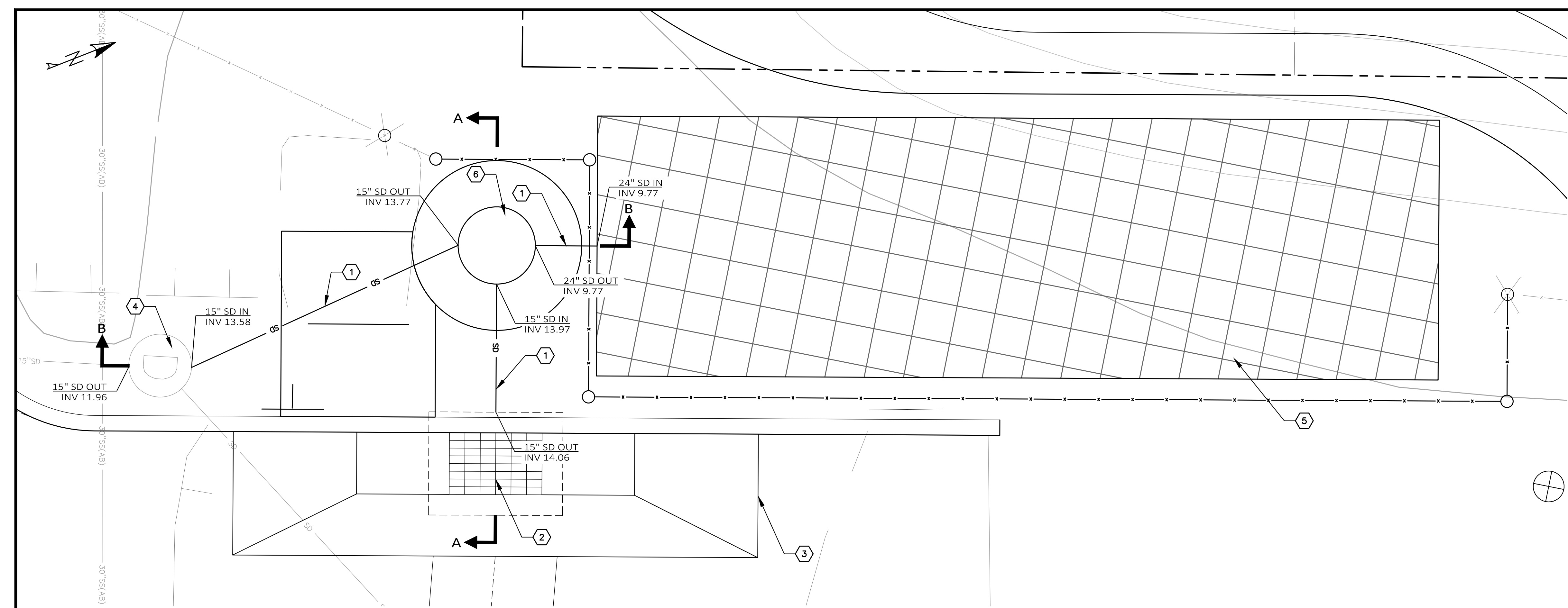
| REVISIONS | NO. | DATE | INITIAL | DESCRIPTION |
|-----------|-----|------|---------|-------------|
| | 1 | | | |
| | 2 | | | |
| | 3 | | | |
| | 4 | | | |
| | 5 | | | |
| | 6 | | | |

Harris & Associates
 450 Lincoln Avenue, suite 103, Salinas, CA 93901
 p. 831.233.9242 * WeAreHarris.com

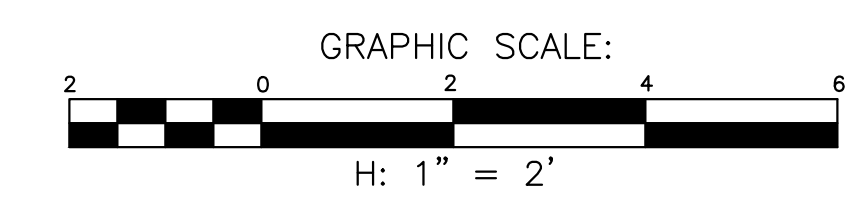


CITY OF SAND CITY
 ADDRESS 1 PENDERGRASS WAY, SAND CITY, CA 93955
 PROJECT TITLE WEST BAY ST. COASTAL ACCESS REPAIR PROJECT
 SHEET DESCRIPTION WEST BAY STREET DRAINAGE PLAN

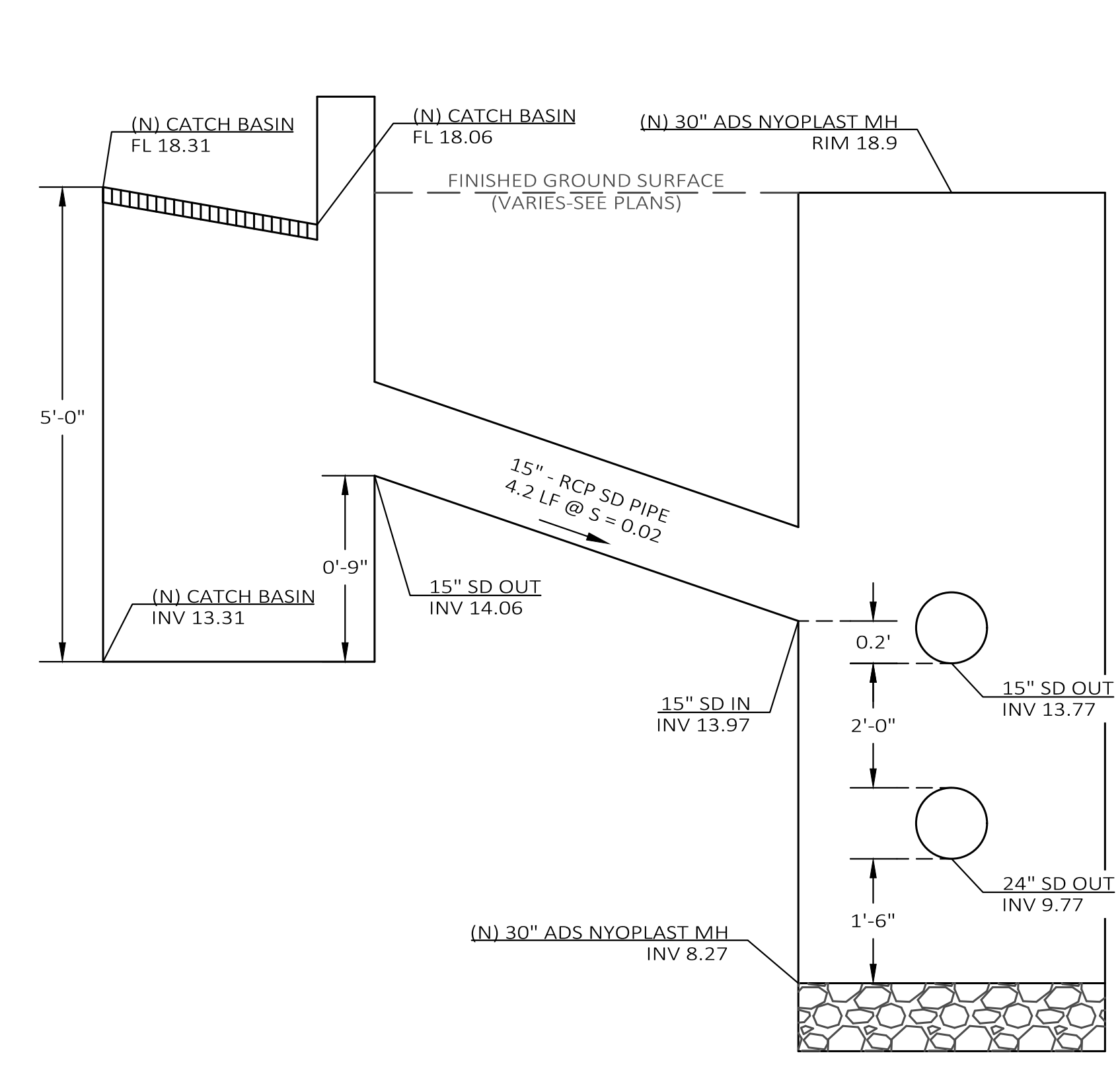
DESIGNED BY:
 DATE: 6/22/22
 SCALE:
 PROJECT NO. 1200673001
 DRAWING NO. C5.0
 SHEET 5 OF 15



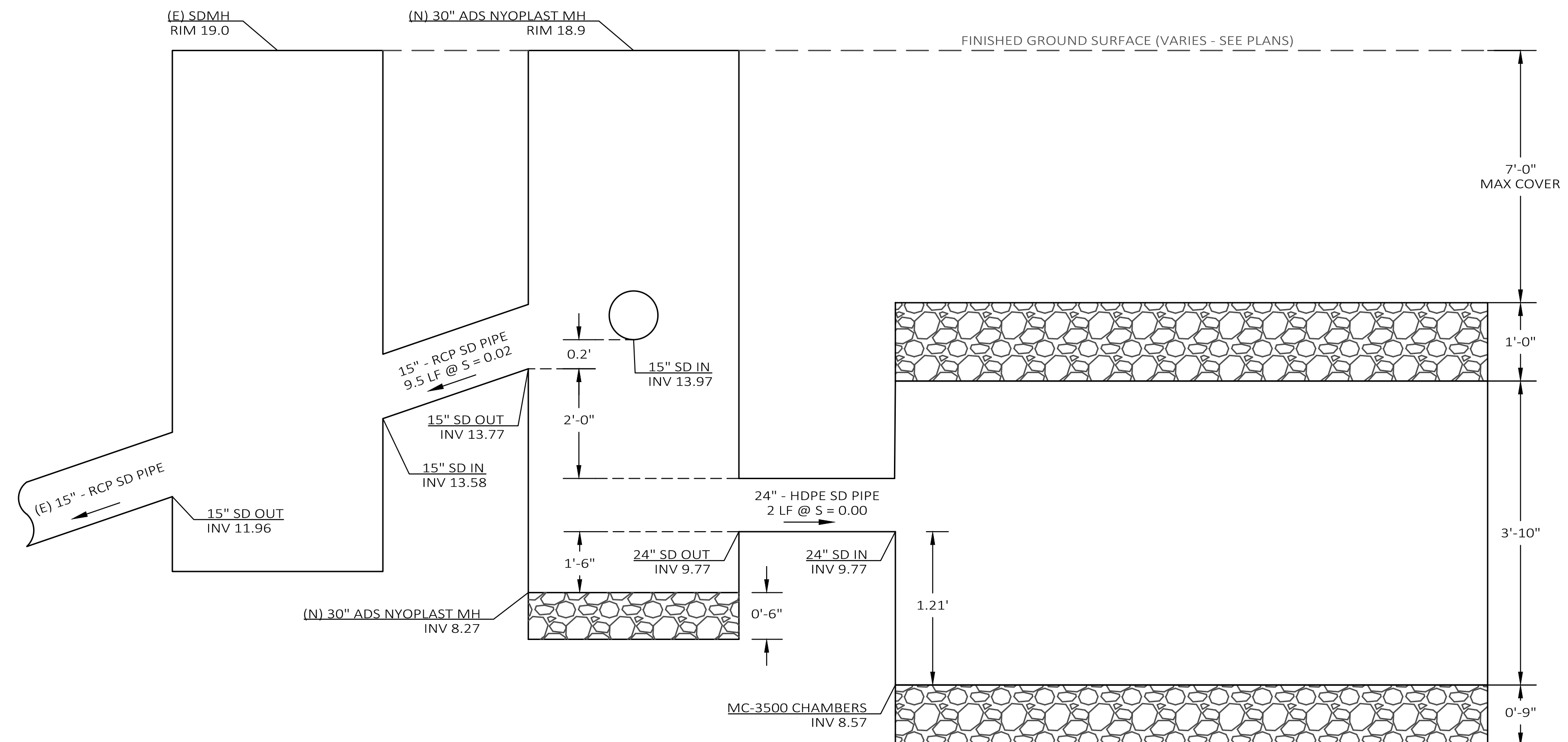
PLAN
 SCALE: 1"=2'



CONTRACTOR MUST POTHOLE ALL EXISTING UTILITIES AS FIRST ORDER OF WORK PRIOR TO CONSTRUCTION OF PROPOSED IMPROVEMENTS.



SECTION A-A
 SCALE: NTS

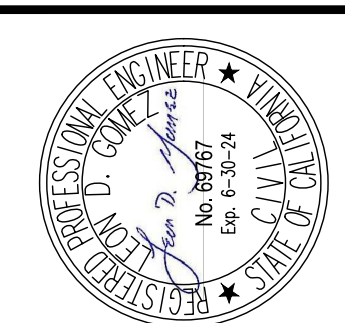


SECTION B-B
 SCALE: NTS



| NO. | DATE | INITIAL | DESCRIPTION |
|-----|------|---------|-------------|
| | | | |
| | | | |
| | | | |
| | | | |

Harris & Associates
 450 Lincoln Avenue, suite 103, Salinas, CA 93901
 p. 831.233.9242
 WeAreHarris.com



CITY OF SAND CITY
 ADDRESS 1 PENDERGRASS WAY, SAND CITY, CA 93955
 PROJECT TITLE WEST BAY ST. COASTAL ACCESS REPAIR PROJECT
 SHEET DESCRIPTION WEST BAY STREET DRAINAGE DETAILS

DESIGNED BY:
 DATE: 6/22/22
 SCALE:
 PROJECT NO. 1200673001
 DRAWING NO. C5.1
 SHEET 6 OF 15

BID SET

| PROJECT INFORMATION | |
|---------------------|--|
| ENGINEERED BY | GARRETT KAPRIELIAN |
| PROJECT MANAGER | 631-998-1087 GARRETT.KAPRIELIAN@ADSPIPE.COM |
| ADS SALES REP | PETE CAMPOS |
| | 408-781-3287 PETE.CAMPOS@ADSPIPE.COM |
| PROJECT NO. | 8201442 |



WEST BAY ST COASTAL ACCESS REPAIR PROJECT

SAND CITY, CA

MC-3500 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-3500.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION S8.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LIFT-BRODGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS. LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1 WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LOGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 480 LB/FT². THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD. THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LIFT-BRODGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

- STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM 4" (100 mm) SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
- STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

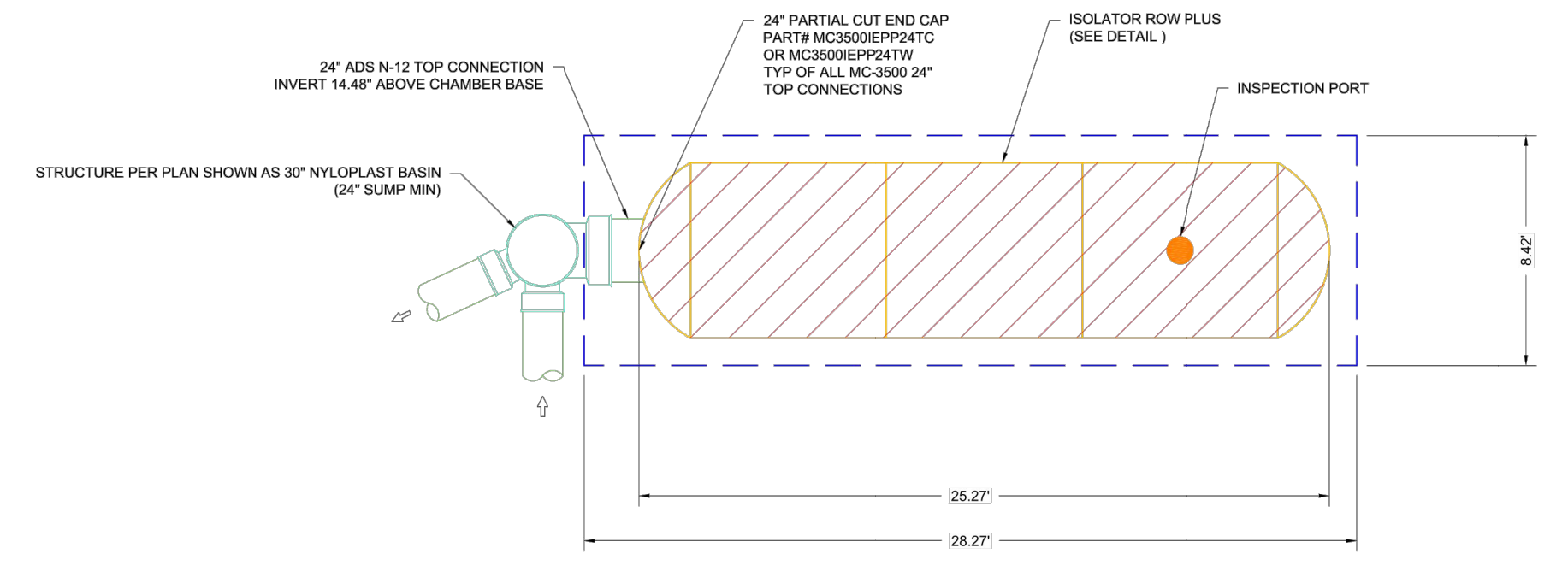
NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
 - NO RUBBER TIRE LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING. USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.
- CONTACT STORMTECH AT 1-888-892-2894 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

| PROPOSED LAYOUT | |
|-----------------|---|
| 3 | STORMTECH MC-3500 CHAMBERS |
| 2 | STORMTECH MC-3500 END CAPS |
| 12 | STONE ABOVE (ft) |
| 9 | STONE BELOW (ft) |
| 40 | % STONE VOID |
| 739 | INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) |
| 239 | SYSTEM AREA (ft ²) |
| 73 | SYSTEM PERIMETER (ft) |

| PROPOSED ELEVATIONS | |
|---------------------|---|
| 20.31 | MAXIMUM ALLOWABLE GRADE (UNPAVED/UNPAVED) |
| 14.31 | MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC) |
| 13.81 | MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC) |
| 13.81 | MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT) |
| 13.81 | MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT) |
| 12.31 | TOP OF STONE |
| 13.31 | TOP OF MC-3500 CHAMBER |
| 9.77 | 24" TOP CONNECTION INVERT |
| 8.56 | BOTTOM OF MC-3500 CHAMBER |
| 7.81 | BOTTOM OF STONE |

- #### NOTES
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
 - THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
 - THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSTALLED SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
 - THIS PLAN REFLECTS THE CHAMBER SYSTEM DESIGN BY THE SITE DESIGN ENGINEER USING STORMTECH COMPONENTS. THE SUITABILITY OF THE CHAMBER SYSTEM TO MEET ANY FUNCTIONAL REQUIREMENTS ARE THE RESPONSIBILITY OF THE SITE DESIGN ENGINEER. STORMTECH'S SCOPE OF WORK IS LIMITED TO THE ASSEMBLED PRODUCT DIMENSIONS AND THE STORMTECH SYSTEM SPECIFIED DOES NOT PROVIDE THE ABILITY TO BE MAINTAINED. NOT MAINTAINING THE SYSTEM MAY LEAD TO ACCUMULATION OF SEDIMENT AND DECREASE IN STORAGE VOLUME OVER TIME DEPENDENT ON UPSTREAM WATER QUALITY DEVICES.

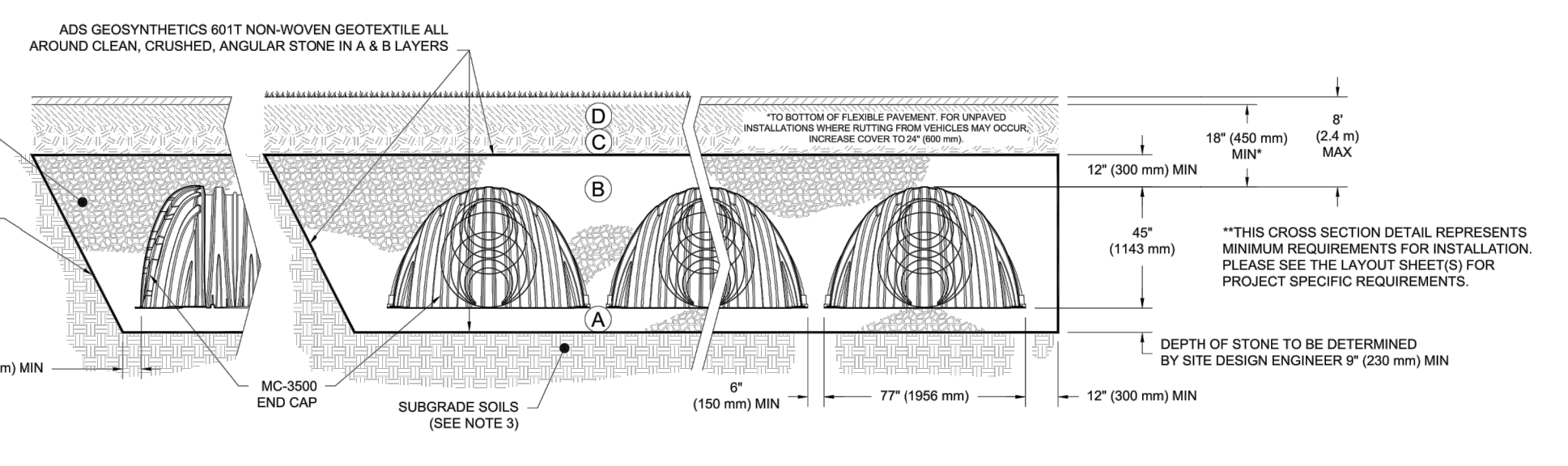


| WEST BAY ST COASTAL ACCESS REPAIR PROJECT | |
|---|--------------------|
| DATE | 03/02/22 |
| DRAWN | DOV |
| CHECKED | XXX |
| PROJECT # | 8201442 |
| DESIGNER | GARRETT KAPRIELIAN |
| DATE | 03/02/22 |
| DRAWN | DOV |
| CHECKED | XXX |
| PROJECT # | 8201442 |
| DESIGNER | GARRETT KAPRIELIAN |
| DATE | 03/02/22 |
| DRAWN | DOV |
| CHECKED | XXX |
| PROJECT # | 8201442 |
| DESIGNER | GARRETT KAPRIELIAN |

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

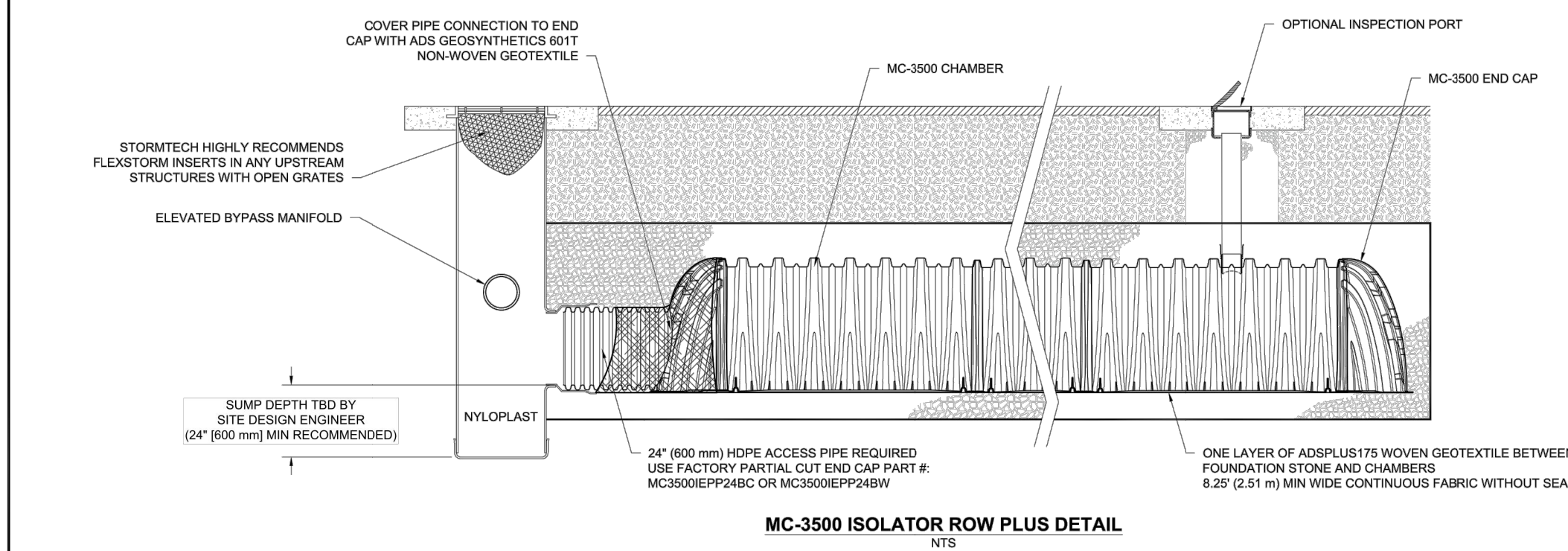
| MATERIAL LOCATION | DESCRIPTION | AASHTO MATERIAL CLASSIFICATIONS | COMPACTION / DENSITY REQUIREMENT |
|-------------------|---|---|--|
| D | FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER. | N/A | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS. |
| C | INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (7' LAYERS TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'C' LAYER. | AASHTO M145 ¹ A-1, A-2, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL-GRADED MATERIAL, AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. |
| B | EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE. | AASHTO M43 ¹ 3, 4 | NO COMPACTION REQUIRED. |
| A | FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER. | AASHTO M43 ¹ 3, 4 | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{1,2} |

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 - STORMTECH COMPACTION REQUIREMENTS ARE NET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) MAX LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
 - ONCE LAYER 'C' IS PLACED, ANY SOLID MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



- #### NOTES:
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION S8.
 - MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
 - PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
 - REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LOGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LB/FT².
 - AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

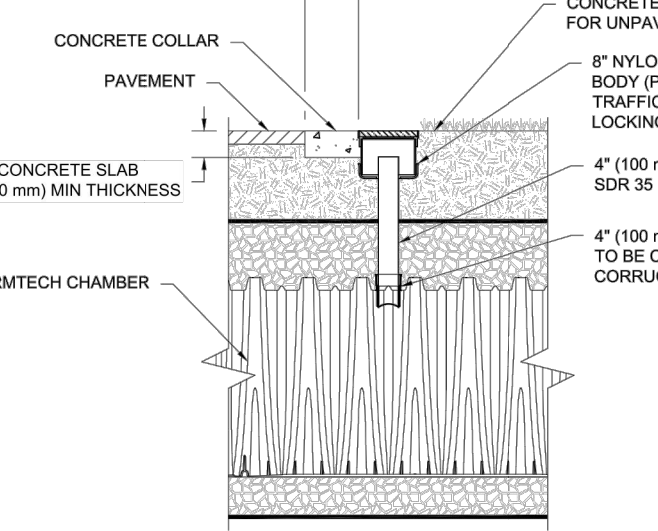
| WEST BAY ST COASTAL ACCESS REPAIR PROJECT | |
|---|--------------------|
| DATE | 03/02/22 |
| DRAWN | DOV |
| CHECKED | XXX |
| PROJECT # | 8201442 |
| DESIGNER | GARRETT KAPRIELIAN |
| DATE | 03/02/22 |
| DRAWN | DOV |
| CHECKED | XXX |
| PROJECT # | 8201442 |
| DESIGNER | GARRETT KAPRIELIAN |



INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- INSPECTION PORTS (IF PRESENT)
 - REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND 1/4" DIA. ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - MIRRORS OR POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A FIXED ORVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKLUSH WATER IS CLEAN
 - VACUUM STRUCTURE UNTIL CLEAN AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LOGS, RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

- #### NOTES
- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
 - CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



| WEST BAY ST COASTAL ACCESS REPAIR PROJECT | |
|---|--------------------|
| DATE | 03/02/22 |
| DRAWN | DOV |
| CHECKED | XXX |
| PROJECT # | 8201442 |
| DESIGNER | GARRETT KAPRIELIAN |
| DATE | 03/02/22 |
| DRAWN | DOV |
| CHECKED | XXX |
| PROJECT # | 8201442 |
| DESIGNER | GARRETT KAPRIELIAN |

MC-SERIES END CAP INSERTION DETAIL

NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

MC-3500 TECHNICAL SPECIFICATION

NOMINAL CHAMBER SPECIFICATIONS

| | |
|---------------------------------|---|
| SIZE (W X H X INSTALLED LENGTH) | 77.0\"/> |
| CHAMBER STORAGE | 109.9 CUBIC FEET (3.11 m ³) |
| MINIMUM INSTALLED STORAGE* | 175.0 CUBIC FEET (4.96 m ³) |
| WEIGHT | 134 lbs. (60.8 kg) |

NOMINAL END CAP SPECIFICATIONS

| | |
|---------------------------------|--|
| SIZE (W X H X INSTALLED LENGTH) | 76.0\"/> |
| END CAP STORAGE | 14.8 CUBIC FEET (0.42 m ³) |
| MINIMUM INSTALLED STORAGE* | 45.1 CUBIC FEET (1.29 m ³) |
| WEIGHT | 49 lbs. (22.2 kg) |

*ASSUMES 12\"/>

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
 PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
 END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"
 END CAPS WITH A WELDED CROWN PLATE END WITH "C"

| PART # | STUB | B | C |
|---------------|--------|---|---|
| MC3500EPP06T | 6\"/> | | |
| MC3500EPP06B | 6\"/> | | |
| MC3500EPP06T | 6\"/> | | |
| MC3500EPP06B | 6\"/> | | |
| MC3500EPP10T | 10\"/> | | |
| MC3500EPP10B | 10\"/> | | |
| MC3500EPP12T | 12\"/> | | |
| MC3500EPP12B | 12\"/> | | |
| MC3500EPP15T | 15\"/> | | |
| MC3500EPP15B | 15\"/> | | |
| MC3500EPP18TC | 18\"/> | | |
| MC3500EPP18TW | 18\"/> | | |
| MC3500EPP18BC | 18\"/> | | |
| MC3500EPP18BW | 18\"/> | | |
| MC3500EPP24TC | 24\"/> | | |
| MC3500EPP24TW | 24\"/> | | |
| MC3500EPP24BC | 24\"/> | | |
| MC3500EPP24BW | 24\"/> | | |
| MC3500EPP30BC | 30\"/> | | |

CUSTOM PARTIAL CUT INVERTS ARE AVAILABLE UPON REQUEST.
 INVERTORIED MANIFOLDS INCLUDE 12\"/>

INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10\"/>

INVERT LOCATION IN COLUMN "B" ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

4640 TRULSMAN BLVD
 HILLIARD, OH 43026

StormTech
 Chamber System

888-882-2814 | WWW.STORMTECH.COM

SHEET 5 OF 6

NYLOPLAST DRAIN BASIN

NOTES

- 12-30\"/>
- 12-30\"/>
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HOPE, ADS & HANCON DUAL WALL & 80% SP PVC
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION: WWW.NYLOPLAST-US.COM
- TO ORDER CALL: 800-821-8718

| A | PART # | GRATE/SOLID COVER OPTIONS |
|--------|--------|---------------------------|
| 6\"/> | | |
| 10\"/> | | |
| 12\"/> | | |
| 15\"/> | | |
| 18\"/> | | |
| 24\"/> | | |
| 30\"/> | | |

4640 TRULSMAN BLVD
 HILLIARD, OH 43026

Nyloplast

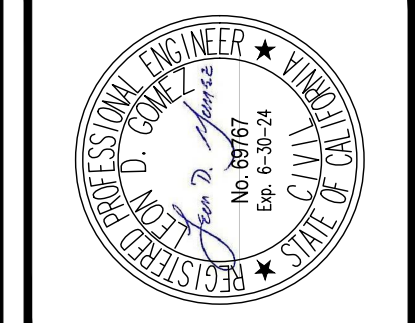
6 OF 6



Harris & Associates

450 Lincoln Avenue, suite 103, Salinas, CA 93901
 p. 831.233.9242 * WeAreHarris.com

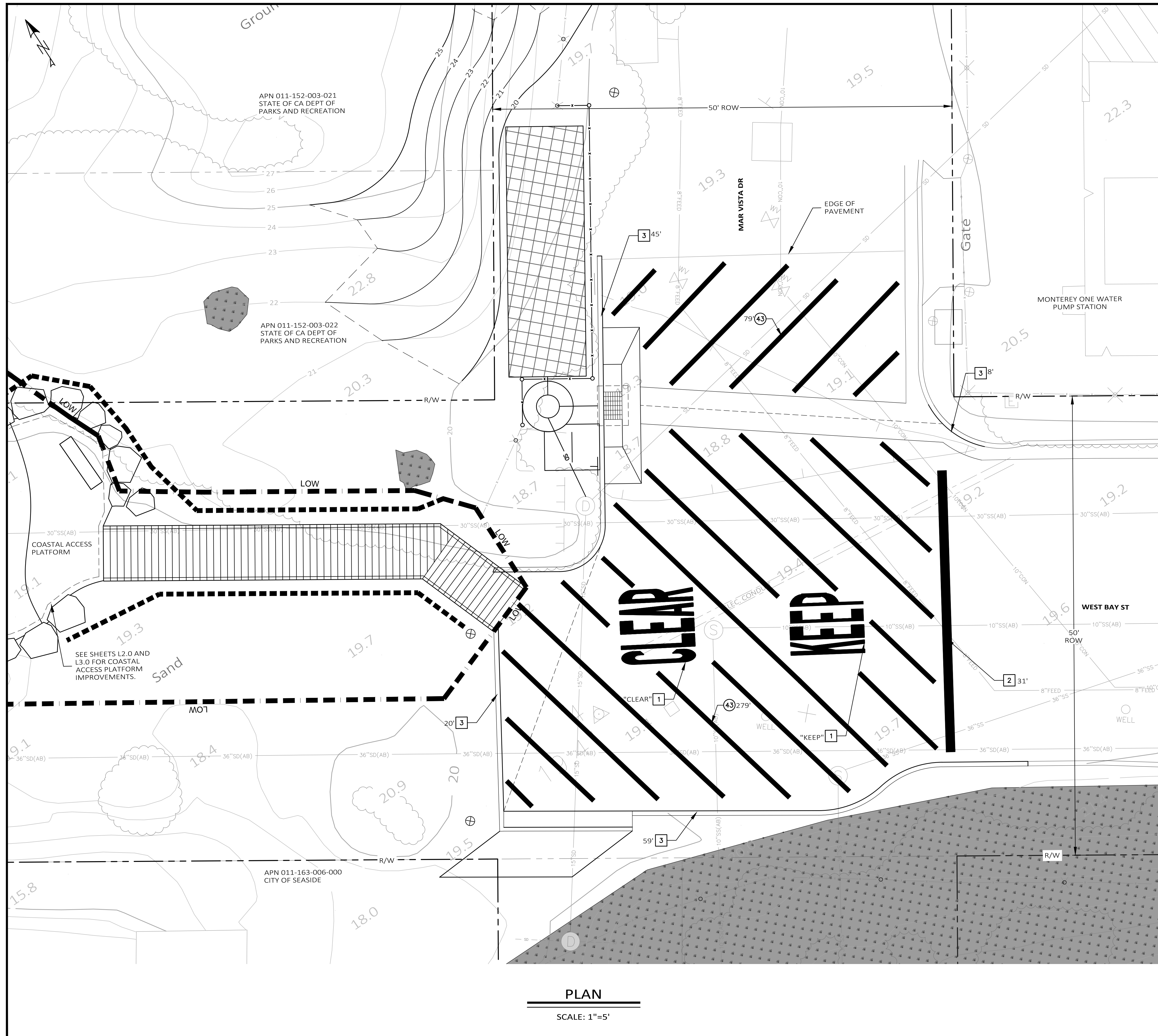
| REVISIONS | NO. | DATE | INITIAL | DESCRIPTION |
|-----------|-----|------|---------|-------------|
| | 1 | | | |
| | 2 | | | |
| | 3 | | | |
| | 4 | | | |



CITY OF SAND CITY
 ADDRESS 1 PENDERGRASS WAY, SAND CITY, CA 93955
 PROJECT TITLE WEST BAY ST. COASTAL ACCESS REPAIR PROJECT

SHEET DESCRIPTION
 WEST BAY STREET DRAINAGE DETAILS

DESIGNED BY:
 DATE: 6/22/22
 SCALE:
 PROJECT NO.
 1200673001
 DRAWING NO.
 C5.2
 SHEET 7 OF 15



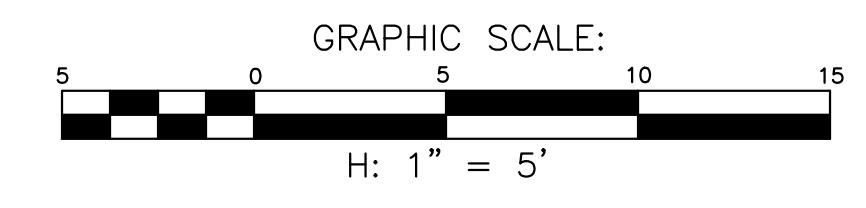
PLAN
SCALE: 1"=5'

CONSTRUCTION NOTES:

- 1 INSTALL PAVEMENT MARKINGS PER CHAPTER 3B OF THE LATEST REVISION OF THE CA MUTCD. WHITE UNLESS OTHERWISE NOTED ON PLANS. WORDS ARE INDICATED ON PLANS.
- 2 INSTALL 12" WHITE (W) LIMIT LINE PER CHAPTER 3B OF THE LATEST REVISION OF THE CA MUTCD. TOTAL LENGTH IS INDICATED.
- 3 INSTALL RED CURB WITH WHITE WORD MARKINGS THAT READ "NO STOPPING" AND "FIRE LANE" PER SECTION 3B.23 OF THE CA MUTCD.

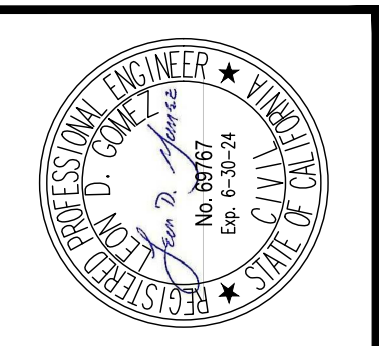
STRIPING LEGEND:

- DIMENSION MEASURED ON THE SHEET PANEL WHERE IT IS NOTED (TYP.)
- NUMBER INDICATES TRAFFIC LINE DETAIL PER CHAPTER 3 OF THE LATEST REVISION OF THE CA MUTCD.



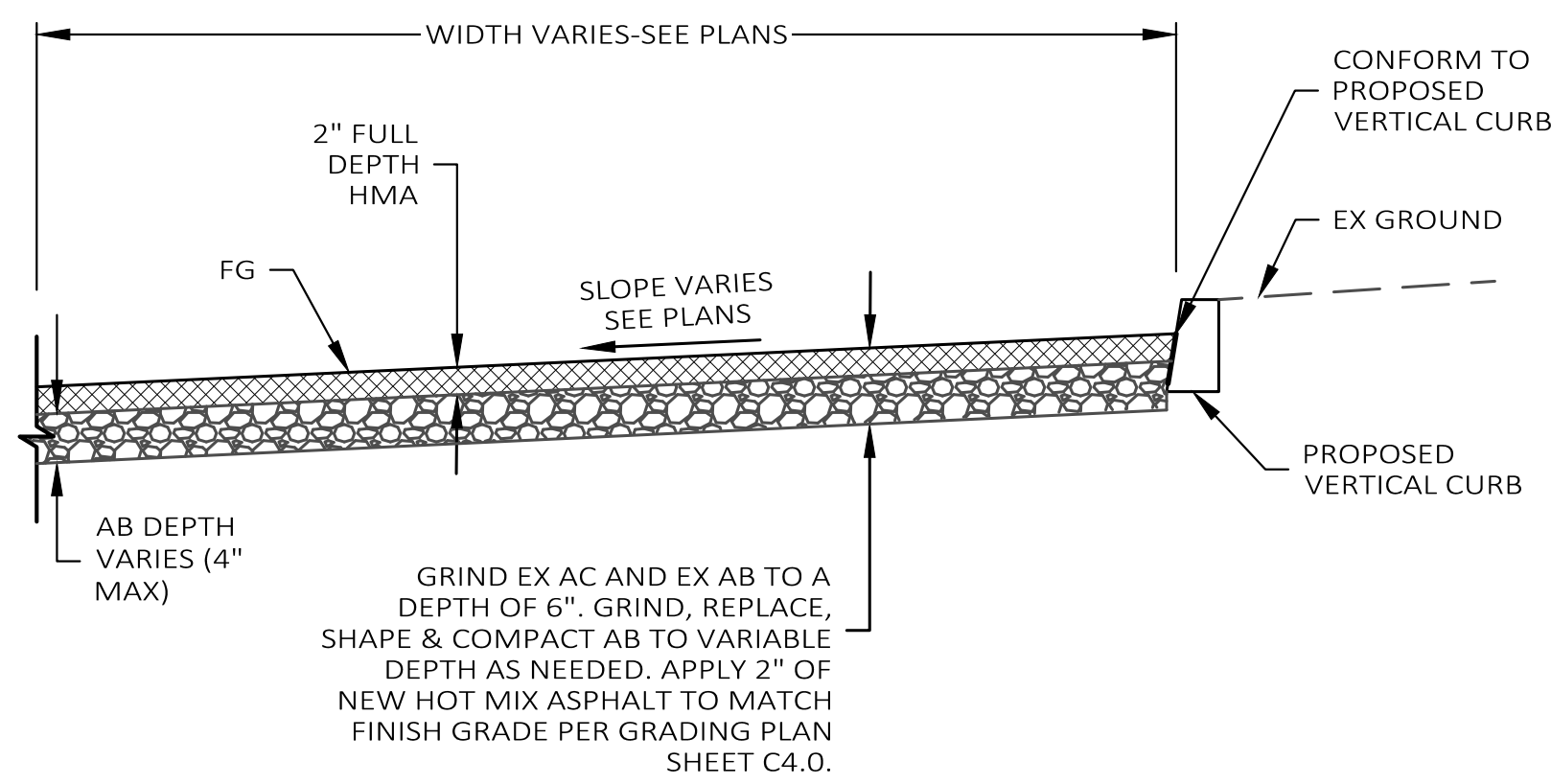
| REVISIONS NO. | DATE | INITIAL | DESCRIPTION |
|---------------|------|---------|-------------|
| | | | |
| | | | |
| | | | |
| | | | |

Harris & Associates
 450 Lincoln Avenue, suite 103, Salinas, CA 93901
 p. 831.233.9242 * WeAreHarris.com

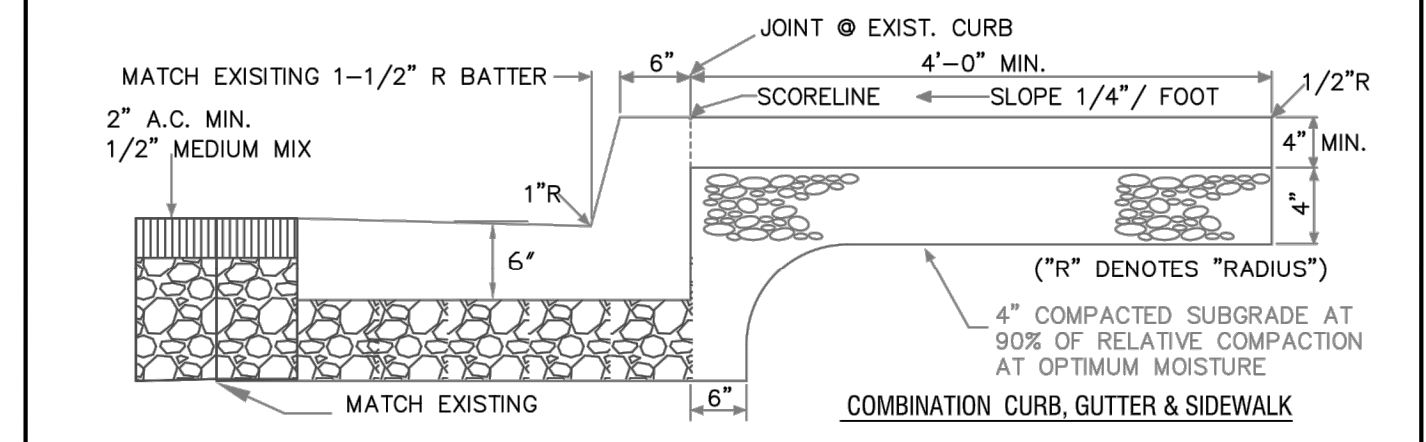
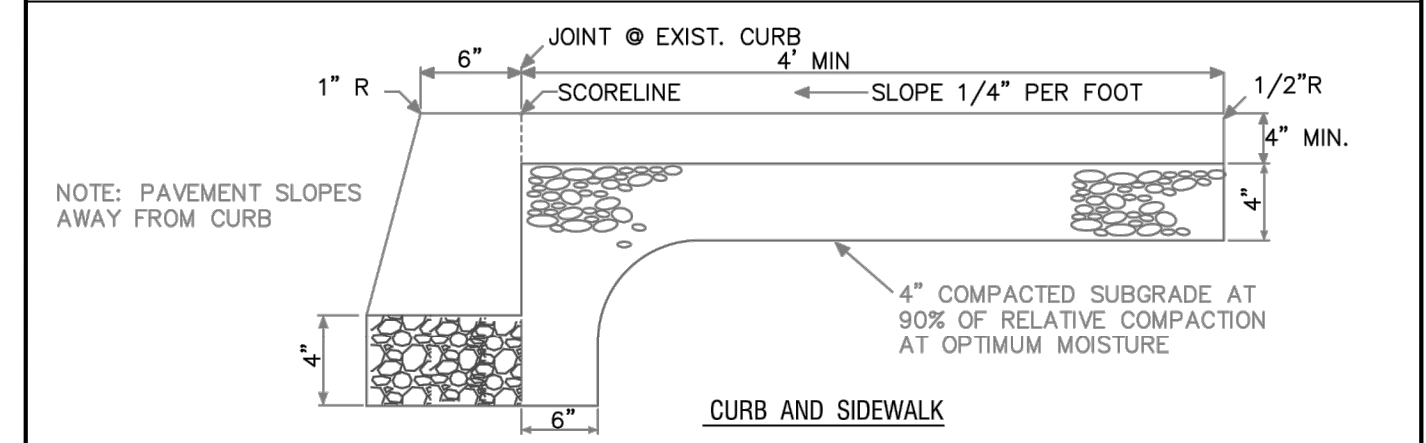
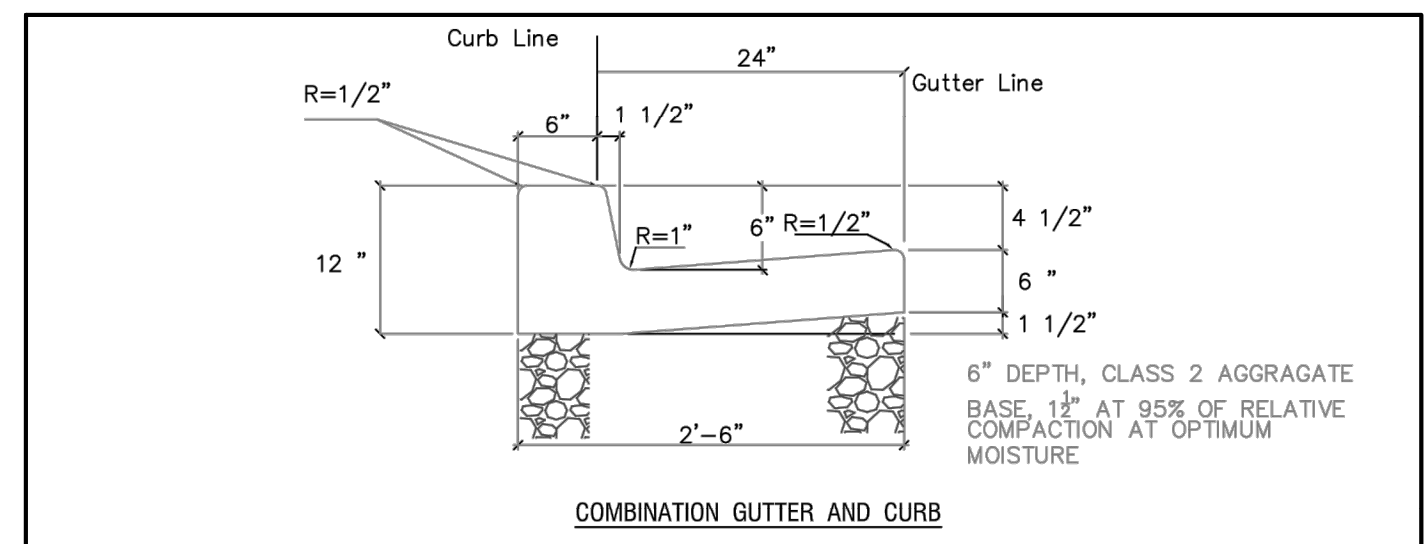


CITY OF SAND CITY
 ADDRESS 1 PENDERGRASS WAY, SAND CITY, CA 93955
 PROJECT TITLE WEST BAY ST. COASTAL ACCESS REPAIR PROJECT
 SHEET DESCRIPTION WEST BAY STREET STRIPING PLAN

| |
|---------------------------|
| DESIGNED BY: |
| DATE: 6/22/22 |
| SCALE: |
| PROJECT NO. 1200673001 |
| DRAWING NO. C6.0 |
| SHEET 8 OF 15 |



1 FULL DEPTH HMA (TYP)
NOT TO SCALE



- NOTES:**
1. ALL WORK AND MATERIAL SHALL CONFORM TO CITY OF SEASIDE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.
 2. CONCRETE SHALL MEET 3,000 PSI IN 28-DAY REQUIREMENT.
 3. CONCRETE SHALL BE CLASS 3, OR BETTER, PER SECTION 90-10, STANDARD SPECIFICATIONS, CALIFORNIA DEPARTMENT OF TRANSPORTATION.
 4. WORK SHALL BE IN ACCORDANCE WITH SECTION 73, CONCRETE CURBS AND SIDEWALKS, STANDARD SPECIFICATIONS, CALIFORNIA DEPARTMENT OF TRANSPORTATION.
 5. CLASS 2 AGGREGATE BASE, 1 1/2" DIAMETER, 6" DEPTH, RELATIVE COMPACTION AT 95%.
 6. ALL CONCRETE SURFACES WHICH HAVE BEEN MARKED OR DEFACED WILL NOT BE ACCEPTED.
 7. SURFACES SHALL BE BROOM FINISHED, BROOM SURFACE TRANSVERSELY TO LINE OF TRAFFIC. ADD WATER TO SURFACE AS NEEDED.
 8. EXPANSION JOINT/ SCORELINE - SEE DETAIL S-104.
 9. CURB, GUTTER, SIDEWALK AND DRIVEWAY REMOVAL SHALL BE AT SCORE LINES. LIMITS OF REMOVAL DETERMINED BY CITY INSPECTOR.

PUBLIC WORKS DEPARTMENT
Drawing File No. S-101
APPROVED: _____
TIMOTHY P. O'HALLORAN, CITY ENGINEER - RCE NO. 49501

STANDARD DRAWING FOR
NEW CURB, GUTTER
& SIDEWALK
CITY COUNCIL RESOLUTION NO. _____

2 COMBINATION CURB AND GUTTER
NOT TO SCALE

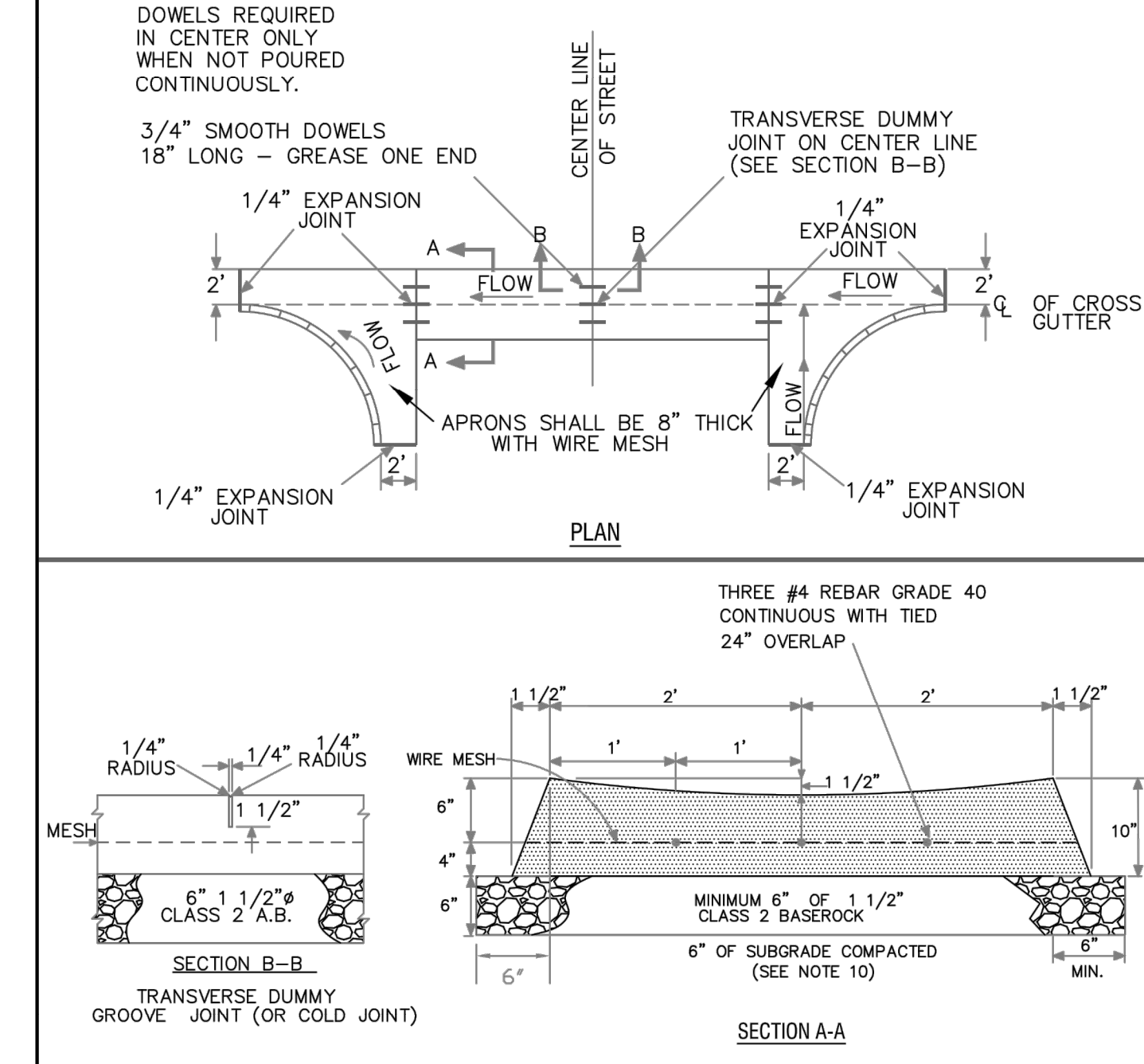
| CURB TYPE | W1" | W2" | W3" | W4" |
|-----------|-------|-----|-----------|-----------|
| A1-6 | 1'-2" | 6" | 7 1/2" | 1 1/2" |
| A1-8 | 1'-4" | 6" | 7 1/2" | 1 1/2" |
| A2-6 | 1'-0" | 6" | 2'-7 1/2" | 2 1/2" |
| A2-8 | 1'-2" | 6" | 2'-8" | 2" |
| A3-6 | 6" | 6" | 7 1/2" | 1 1/2" |
| A3-8 | 6" | 6" | 7 1/2" | 1 1/2" |
| B1-4 | 1'-0" | 4" | 7 1/2" | 2 1/2" |
| B1-6 | 1'-2" | 4" | 7 1/2" | 2 1/2" |
| B2-4 | 1'-0" | 4" | 2'-7 1/2" | 2 1/2" |
| B2-6 | 1'-2" | 4" | 2'-7 1/2" | 2 1/2" |
| B3-4 | 4" | 4" | 7 1/2" | 2" |
| B3-6 | 4" | 4" | 7 1/2" | 2" |
| D-4 | 1'-0" | 4" | 1'-6" | 1'-1 1/2" |
| D-6 | 1'-0" | 6" | 2'-2" | 1'-9" |

TABLE B

| CURB TYPE | QTY PER LINEAR FOOT |
|-----------|---------------------|
| A1-6 | 0.02585 |
| A1-8 | 0.02684 |
| A2-6 | 0.05903 |
| A2-8 | 0.06379 |
| A3-6 | 0.01038 |
| A3-8 | 0.01435 |
| B1-4 | 0.02185 |
| B1-6 | 0.02559 |
| B2-4 | 0.05515 |
| B2-6 | 0.05171 |
| B3-4 | 0.00641 |
| B3-6 | 0.01074 |
| B4 | 0.05709 |
| D-4 | 0.04953 |
| D-6 | 0.06804 |
| E | 0.06661 |

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CURBS AND DRIVEWAYS
NO SCALE
A87A

3 VERTICAL CURB AND ROLLED CURB
NOT TO SCALE



- NOTES:**
1. UNLESS OTHERWISE SPECIFIED, CROSS GUTTER CONSTRUCTION SHALL ADHERE TO REQUIREMENTS OF SECTION 73 OF THE STANDARD SPECIFICATIONS, CALIFORNIA DEPARTMENT OF TRANSPORTATION.
 2. PAVEMENT SLOPES OF LESS THAN 2% SHALL REQUIRE A CONCRETE VALLEY GUTTER IN PUBLIC AND PRIVATE AREAS.
 3. WIRE MESH SHALL BE 6"x6" SQUARES NO. 10 X NO. 10 ELECTRICALLY WELDED WIRE PER A.S.T.M. DESIGNATION A185-53-T.
 4. THREE #4 REBAR-GRADE 40-CONTINUOUS WITH TIED 24" OVERLAP.
 5. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 20' INTERVALS AT RIGHT ANGLES TO THE FLOWLINE.
 6. DOWELS REQUIRED ONLY WHEN GUTTER IS POURED IN PHASES. DOWELS ARE 1" SMOOTH, 18" LONG, GREASE ONE END.
 7. GUTTER SHALL BE POURED MONOLITHICALLY UNLESS OTHERWISE APPROVED BY CITY INSPECTOR.
 8. IF DIRECTIONAL FLOW OF CROSS GUTTER IS OPPOSITE TO THAT SHOWN, THE DETAIL OF FLOW AT EACH CURB WILL BE THAT OF THE OPPOSITE RETURN ON THE LINE OF THE CROSS GUTTER.
 9. CONCRETE SHALL BE 3,000 PSI COMPRESSIVE STRENGTH IN 28-DAYS (MINIMUM) OR MEET REQUIREMENTS OF SECTION 90-10 OF THE STANDARD SPECIFICATIONS, CALIFORNIA DEPARTMENT OF TRANSPORTATION, WHICHEVER IS MORE STRINGENT.
 10. BASEROCK TO BE CLASS 2, 1 1/2" COMPACTED TO 95% RELATIVE COMPACTION AT OPTIMUM MOISTURE CONTENT.
 11. NATIVE SUBGRADE TO BE COMPACTED TO 90% RELATIVE COMPACTION AT OPTIMUM MOISTURE CONTENT.

PUBLIC WORKS DEPARTMENT
Drawing File No. S-106
APPROVED: _____
TIMOTHY P. O'HALLORAN, CITY ENGINEER - RCE NO. 49501

STANDARD DRAWING FOR
CONCRETE CROSS
GUTTER
CITY COUNCIL RESOLUTION NO. _____

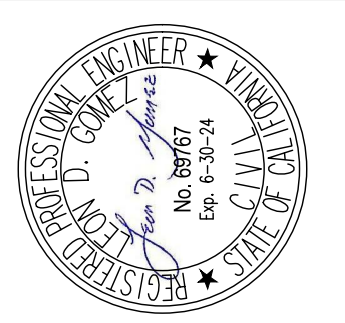
4 VALLEY GUTTER
NOT TO SCALE

5 TYPE "GO" CATCH BASIN
NOT TO SCALE



| REVISIONS | NO. | DATE | DESCRIPTION |
|-----------|-----|------|-------------|
| | 1 | | |
| | 2 | | |
| | 3 | | |
| | 4 | | |

Harris & Associates
450 Lincoln Avenue, suite 103, Salinas, CA 93901
p. 831.233.9242
WeAreHarris.com



CITY OF SAND CITY
ADDRESS: 1 PENDERGRASS WAY, SAND CITY, CA 93955
PROJECT TITLE: WEST BAY ST. COASTAL ACCESS REPAIR PROJECT
SHEET DESCRIPTION: CONSTRUCTION DETAILS

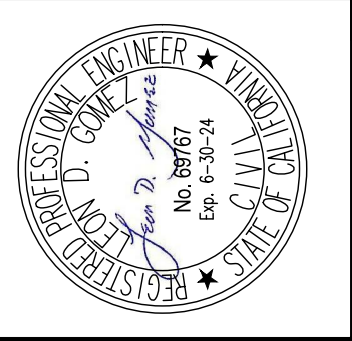
DESIGNED BY:
DATE: 6/22/22
SCALE:
PROJECT NO. 1200673001
DRAWING NO. C7.0
SHEET 9 OF 15

BID SET



| REVISIONS | NO. | DATE | INITIAL | DESCRIPTION |
|-----------|-----|------|---------|-------------|
| | 1 | | | |
| | 2 | | | |
| | 3 | | | |
| | 4 | | | |
| | 5 | | | |
| | 6 | | | |

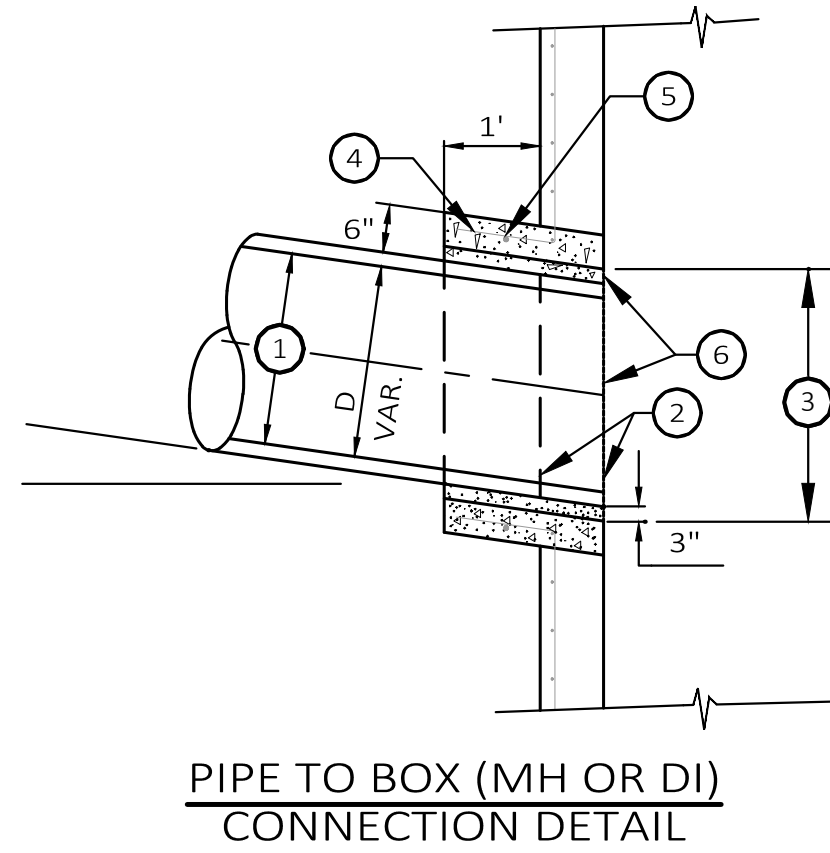
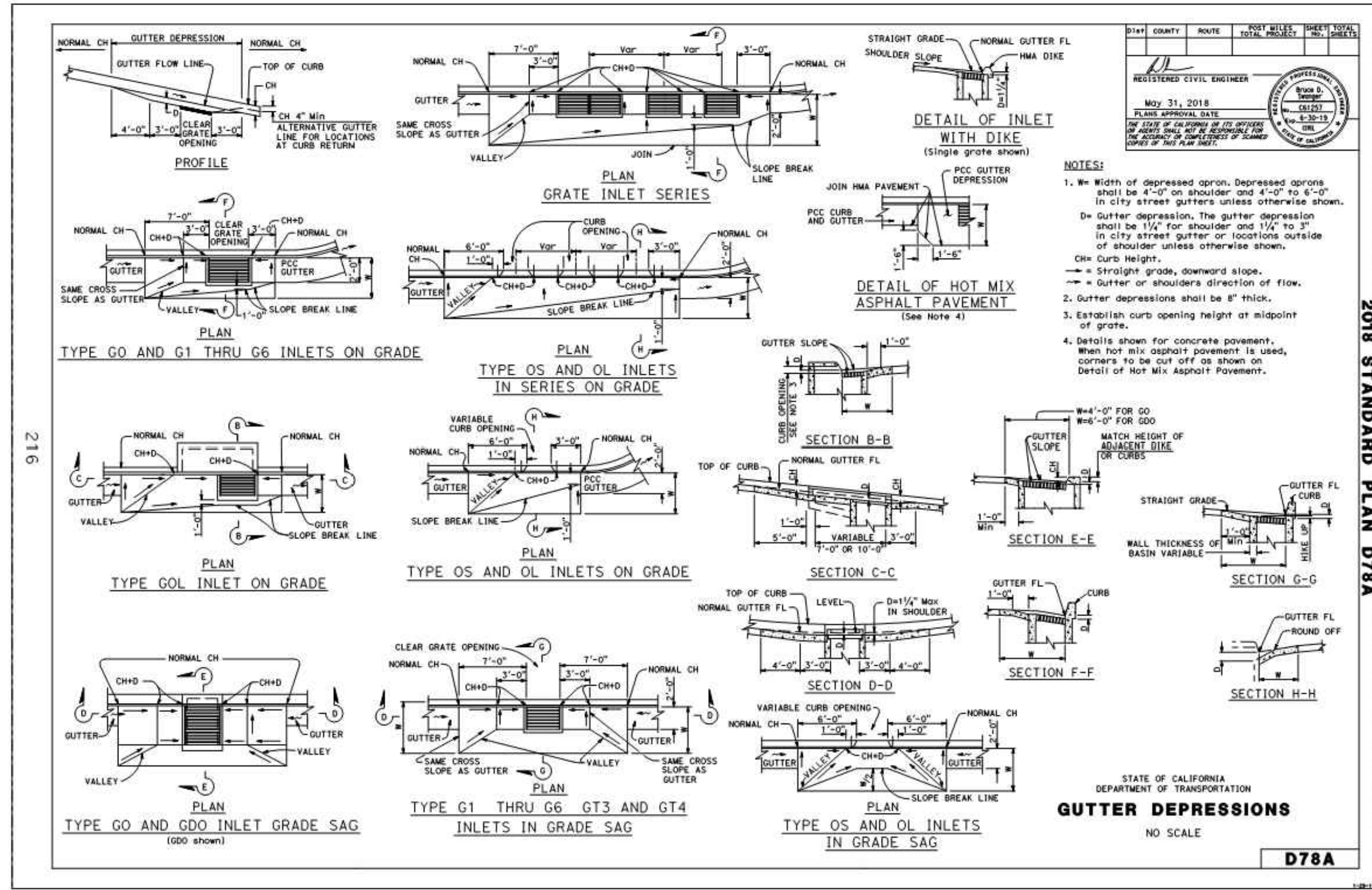
Harris & Associates
 450 Lincoln Avenue, suite 103, Salinas, CA 93901
 p. 831.233.9242 * WeAreHarris.com



CITY OF SAND CITY
 ADDRESS 1 PENDERGRASS WAY, SAND CITY, CA 93955
 PROJECT TITLE WEST BAY ST. COASTAL ACCESS REPAIR PROJECT
 SHEET DESCRIPTION CONSTRUCTION DETAILS

DESIGNED BY:
 DATE: 6/22/22
 SCALE:
 PROJECT NO. 1200673001
 DRAWING NO. C7.1
 SHEET 10 OF 15

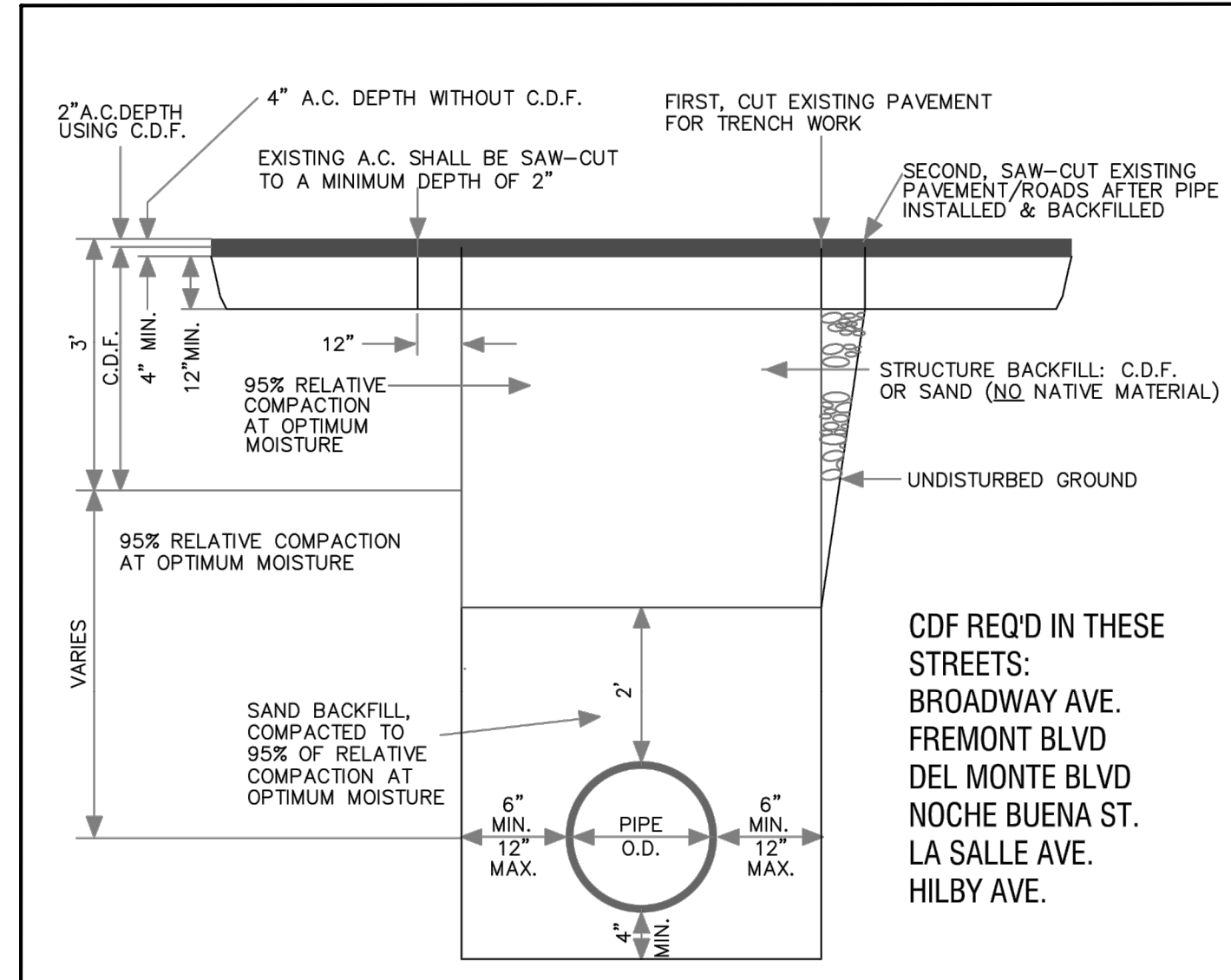
BID SET



- NOTES FOR PIPE TO MH/DRAINAGE INLET CONNECTION:**
- DIAMETER OF CONNECTION PIPE.
 - PARTS OF EXISTING CONCRETE WALL TO BE REMOVED.
 - LIMITS OF CONCRETE REMOVAL SHALL BE 3" MAX. GREATER THAN EXTERNAL DIAMETER OF PIPE.
 - CUT REINFORCEMENT ON ALTERNATE SIDES & BEND INTO COLLAR. IF REINFORCING STEEL IS NOT PRESENT, USE #4 DOWELS @ 12" O.C.
 - ADD TWO HOOPS OF NEW #3 REBAR WIRED TO EXISTING REBAR IN CONCRETE COLLAR.
 - CONNECTING PIPE AND GROUT SHALL BE FLUSH WITH INTERNAL SURFACE OF EXISTING PIPE/BOX.

6 GUTTER DEPRESSION
NOT TO SCALE

7 STORM DRAIN CONNECTION
NOT TO SCALE

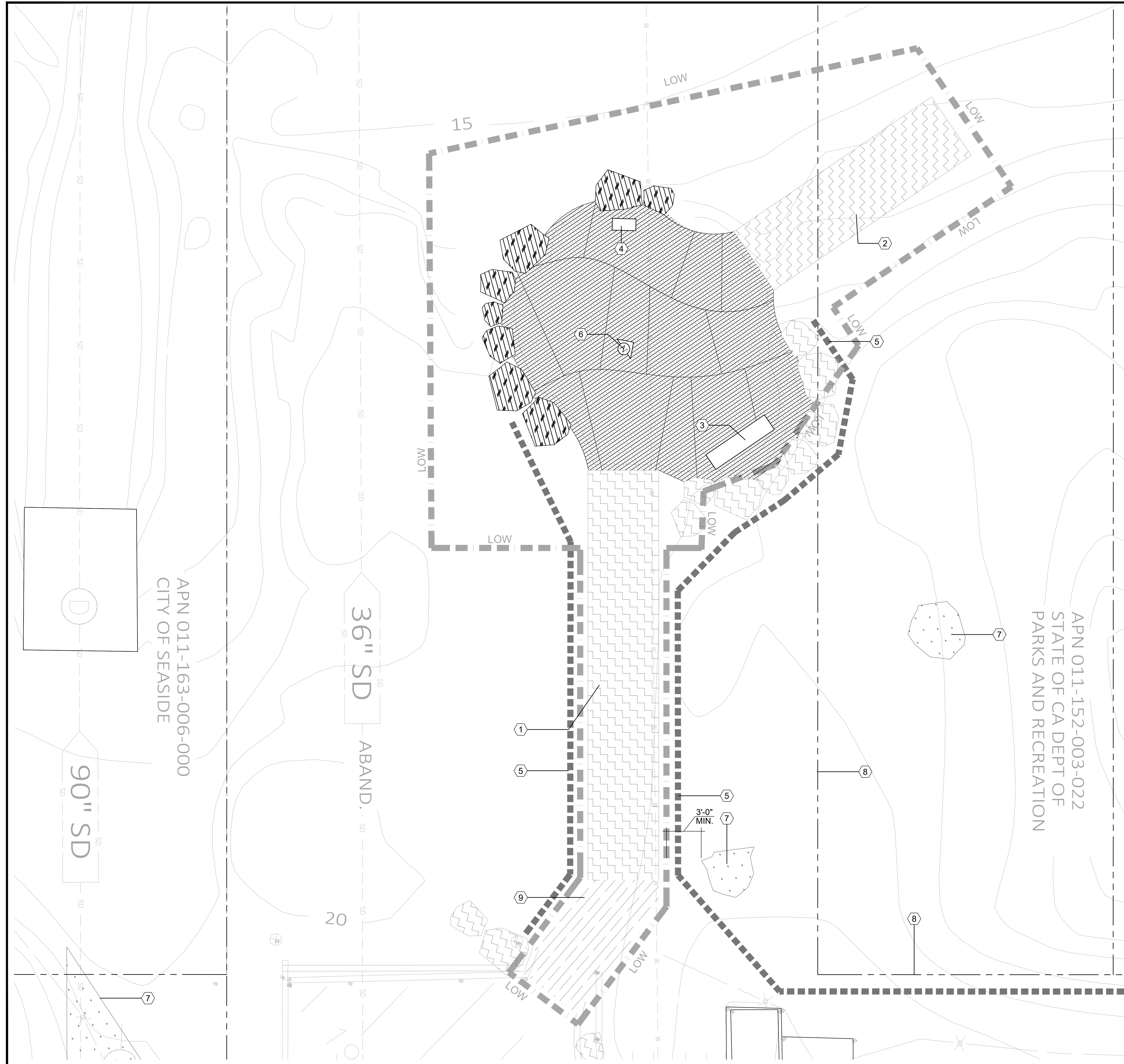


- AGGREGATE SHALL BE 1 1/2" CLASS II BASEROCK, MINIMUM DEPTH 12"
- TRENCHES SHALL BE EXCAVATED IN A NEAT & WORKMAN LIKE MANNER AT THE STREET SURFACE AND THE SHAPE SHALL BE RECTANGULAR.
- SAND BACKFILL SHALL HAVE A S.E. OF 30 MINIMUM.
- NO BEDDING REQUIRED FOR DUCTILE IRON PIPE, EXCEPT WHEN WATER IS IN THE TRENCH.
- DEPTH FROM FINISH GRADE TO TOP OF PIPE SHALL BE 36" MINIMUM.
- ALL REPAIR TRENCHES IN EXISTING STREETS SHALL BE BACKFILLED WITH 2' OF SAND OVER PIPE, THEN:
 - A) C.D.F. OVER PIPE UP TO WITHIN 2" OF FINISHED GRADE, STEEL PLATED WITH COLD-MIX EDGES FOR A MINIMUM OF 24 HOURS BEFORE FINAL PAVING. COMPACTION TESTING NOT REQUIRED, OR,
 - B) IF C.D.F. IS NOT UTILIZED, 4" OF A.C. OF 12" OF CLASS II BASE OVER COMPACTED SAND. FIRST LIFT SHALL BE 2" BEFORE COMPACTION. SUBSEQUENT LIFTS SHALL BE IN 8" LIFTS. SHALL MEET 95% RELATIVE COMPACTION AT OPTIMUM MOISTURE. CERTIFIED COMPACTION REPORTS SHALL BE SUBMITTED TO THE CITY INSPECTOR.
 - C) C.D.F. REQUIRED IN BROADWAY AVE., FREMONT BLVD., DEL MONTE BLVD., LA SALLE AVE., HILBY AVE., AND NOCHE BUENA ST.
 - D) C.D.F. REQUIRED WHEN WIDTH OF TRENCH IS LESS THAN 18" OR TOTAL PATCH AREA LESS THAN 100 SQUARE FEET.
- ASPHALTIC CONCRETE HOT MIX GREATER THAN 4" SHALL BE PLACED & COMPACTED IN TWO LIFTS. MIX SHALL BE TYPE "A", 1/2" MEDIUM MIX.

PUBLIC WORKS DEPARTMENT
 Drawing File No. S-601
 APPROVED: _____
 TIMOTHY P. O'HALLORAN, CITY ENGINEER - RCE NO. 49501

STANDARD DRAWING FOR
TRENCH BACKFILL
 SDR LESS THAN 26
 CITY COUNCIL RESOLUTION NO. _____

8 TRENCH BACKFILL
NOT TO SCALE



LEGEND

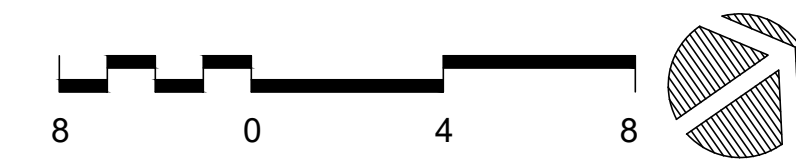
- LOW Limit of Work Line
- Demolish Damaged Slab, Take Care Not to Damage Any Adjacent Materials to Remain
- Preserve and Protect Existing Elements to Remain
- Boardwalk to be Removed
- Existing Boulders to Remain and Protect
- Existing Boulders to Remove and Retain for Reuse in This Project. See Construction Details

REFERENCE NOTES

- ① Existing Boardwalk. Preserve and Protect
- ② Existing Roll Up Boardwalk: Preserve and Protect for Reuse in This Project. Conduct Minor Repairs as Needed. See Construction Details
- ③ Concrete Bench: See Construction Plan
- ④ Interpretive Sign: Remove and Retain for Future Use. See Construction Plan
- ⑤ Existing Post and Cable Barrier: Repair and Replace in LOW Areas only
- ⑥ Decorative Paving Element: Salvage for Reuse in This Project
- ⑦ Smith's Blue Butterfly Habitat Area Shall be Flagged and Avoided During Construction Biological Resources Report for West Bay Street Infrastructure Repair Project, Sand City, CA, Prepared by Denise Duffy & Associates, INC., Dated December 16, 2020. Keep the LOW Min. 3' Away from The Protected Plants
- ⑧ Existing Right-of-Way
- ⑨ Remove Boardwalk. Contractor to Verify in Field with Owner Limit of Removal.

GENERAL NOTES

1. Clear sand from all surfaces taking care to not damage boardwalk and other elements to remain.
2. Conduct minor repairs as needed.
3. Identify and preserve any special status plants. They shall be flagged and avoided during construction. Biological Resources Report for West Bay Street Infrastructure Repair Project, Sand City, CA, Prepared by Denise Duffy & Associates, INC., Dated December 16, 2020



bfs BFS LANDSCAPE ARCHITECTS
 428 PACIFIC STREET #201
 MONTEREY, CALIFORNIA 93940
 831.646.1363 • BFSLA.COM



| REVISIONS | | NO. | DATE | INITIAL | DESCRIPTION |
|-----------|--|-----|------|---------|-------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Harris & Associates

450 Lincoln Avenue, suite 103, Salinas, CA 93901
 p: 831.233.9242 * WeAreHarris.com



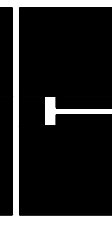
CITY OF SAND CITY
 ADDRESS: 1 PENDERGRASS WAY, SAND CITY, CA 93955
 PROJECT TITLE: WEST BAY ST. COASTAL ACCESS REPAIR PROJECT
 SHEET DESCRIPTION: Demo & Preservation Plan

DESIGNED BY: MB
 DATE: 05/10/21
 SCALE: 1/8" = 1'-0"
 PROJECT NO.: 20.014
 DRAWING NO.: L-1.0
 SHEET 11 OF 15



| NO. | DATE | INITIAL | DESCRIPTION |
|-----|------|---------|-------------|
| | | | |
| | | | |
| | | | |
| | | | |

Harris & Associates



450 Lincoln Avenue, suite 103, Salinas, CA 93901
p: 831.233.9242 * WeAreHarris.com



CITY OF SAND CITY
ADDRESS: 1 PENDERGRASS WAY, SAND CITY, CA 93955
PROJECT TITLE: WEST BAY ST. COASTAL ACCESS REPAIR PROJECT
SHEET DESCRIPTION: Construction Plan

DESIGNED BY: MB
DATE: 05/10/21
SCALE: 1/8" = 1'-0"
PROJECT NO.: 20.014
DRAWING NO.: L-2.0
SHEET 12 OF 15

LEGEND

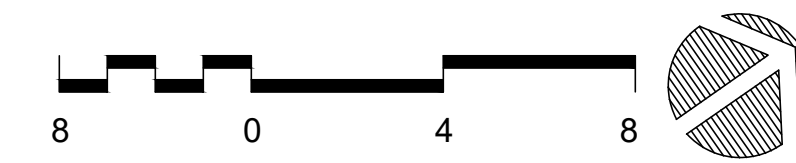
- LOW Limit of Work Line
- Concrete Paving: Heavy Sandblast Exposed Aggregate, Davis Color "Sierra" See Specs. See (1/L-4.0)
- Concrete Paving: Medium Sandblast Exposed Aggregate, Davis Color "Green Slate" See Specs. See (1/L-4.0)
- Concrete Paving: Light Sandblast Exposed Aggregate, Davis Color "SandStone" See Specs. See (1/L-4.0)
- Score Marks: See Specs. See (4/L-4.0)
- Boulders: Reuse and Place per Plan
- PA Planting Area: See Planting Plan

REFERENCE NOTES

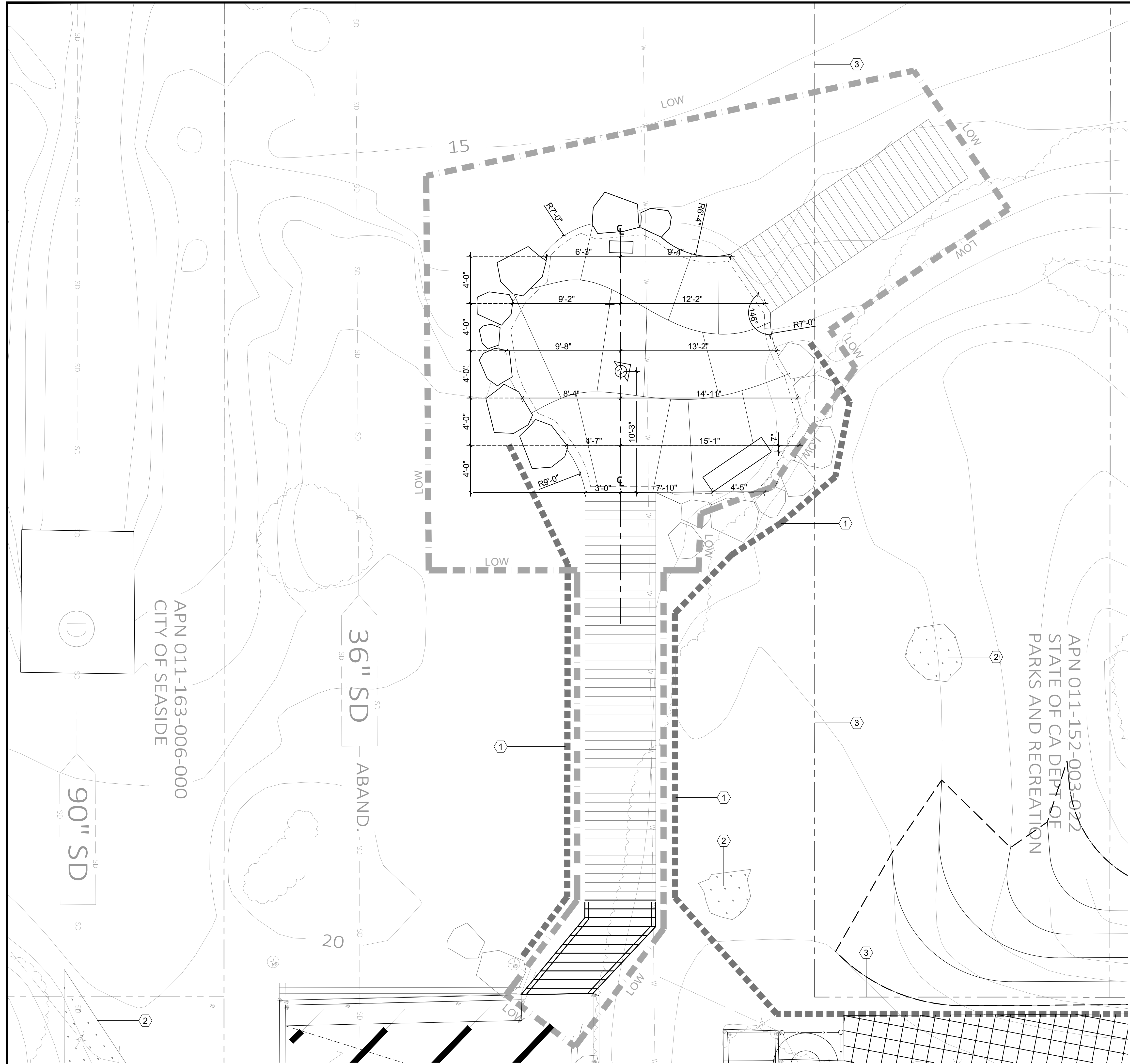
- 1 Roll Up Boardwalk: Reuse Existing and Conduct Minor Repairs as Needed. Provide New Connection. See (9/L-4.0) (10/L-4.0)
- 2 Interpretive Sign: Place in Existing Location. Conduct Minor Repairs As Needed. See (5/L-4.0)
- 3 Concrete Paving with Thickened Edge. See (1/L-4.0)
- 4 Concrete Bench: See (3/L-4.0)
- 5 Existing Post and Cable Barrier: Repair and Replace in LOW areas Only. If Replacement Required for Portions Contractor to Spray Paint Alignment for Approval by Engineer Prior to Installing. See (7/L-4.0)
- 6 Boardwalk Connection to Paving: See (9/L-4.0) (10/L-4.0)
- 7 Boulder at Thickened Edge. See (6/L-4.0)
- 8 Decorative Paving Element: See (2/L-4.0)
- 9 Smith's Blue Butterfly Habitat Area Shall be Flagged and Avoided During Construction Biological Resources Report for West Bay Street Infrastructure Repair Project, Sand City, CA, Prepared by Denise Duffy & Associates, INC., Dated December 16, 2020. Keep the LOW Min. 3' Away from The Protected Plants.
- 10 Existing Right-of-Way
- 11 Boardwalk: See Detail (8/L-4.0)

GENERAL NOTES

1. Concrete Paving: Provide 3 gradations of rounded river rock aggregate, one different one for each paving area. Submit samples for each prior to construction.



bfs LANDSCAPE ARCHITECTS
425 PACIFIC STREET #201
MONTEREY, CALIFORNIA 93940
831.646.1363 • BFSLA.COM



LEGEND

- LOW Limit of Work Line

REFERENCE NOTES

- ① Existing Post and Cable Barrier: Repair and Replace in LOW areas Only. If Replacement Required for Portions Contractor to Spray Paint Alignment for Approval by Engineer Prior to Installing. See (7/L-4.0)
- ② Smith's Blue Butterfly Habitat Area Shall be Flagged and Avoided During Construction Biological Resources Report for West Bay Street Infrastructure Repair Project, Sand City, CA, Prepared by Denise Duffy & Associates, INC., Dated December 16, 2020. Keep the LOW Min. 3' Away from The Protected Plants.
- ③ Existing Right-of-Way

APN 011-163-006-000
CITY OF SEASIDE

36" SD
ABAND.

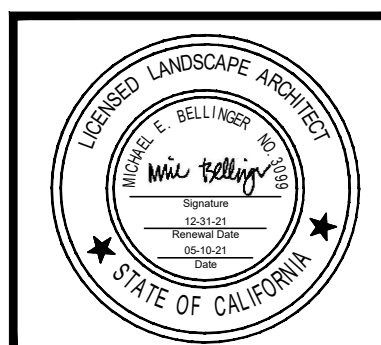
90" SD

APN 011-152-003-022
STATE OF CA DEPT OF
PARKS AND RECREATION



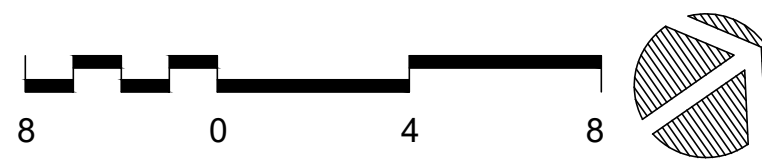
| REVISIONS | | INITIAL | DESCRIPTION |
|-----------|------|---------|-------------|
| NO. | DATE | | |
| | | | |
| | | | |
| | | | |

Harris & Associates
450 Lincoln Avenue, suite 103, Salinas, CA 93901
p: 831.233.9242 * WeAreHarris.com



CITY OF SAND CITY
ADDRESS: 1 PENDERGRASS WAY, SAND CITY, CA 93955
PROJECT TITLE: WEST BAY ST. COASTAL ACCESS REPAIR PROJECT
SHEET DESCRIPTION: **Layout Plan**

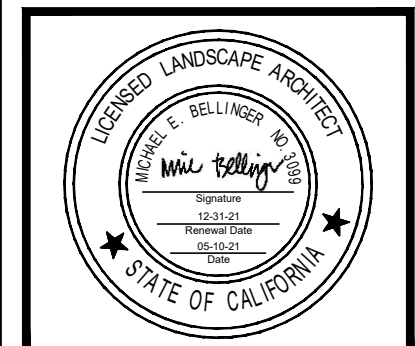
DESIGNED BY: MB
DATE: 05/10/21
SCALE: 1/8" = 1'-0"
PROJECT NO.: 20.014
DRAWING NO.: L-3.0
SHEET 13 OF 15





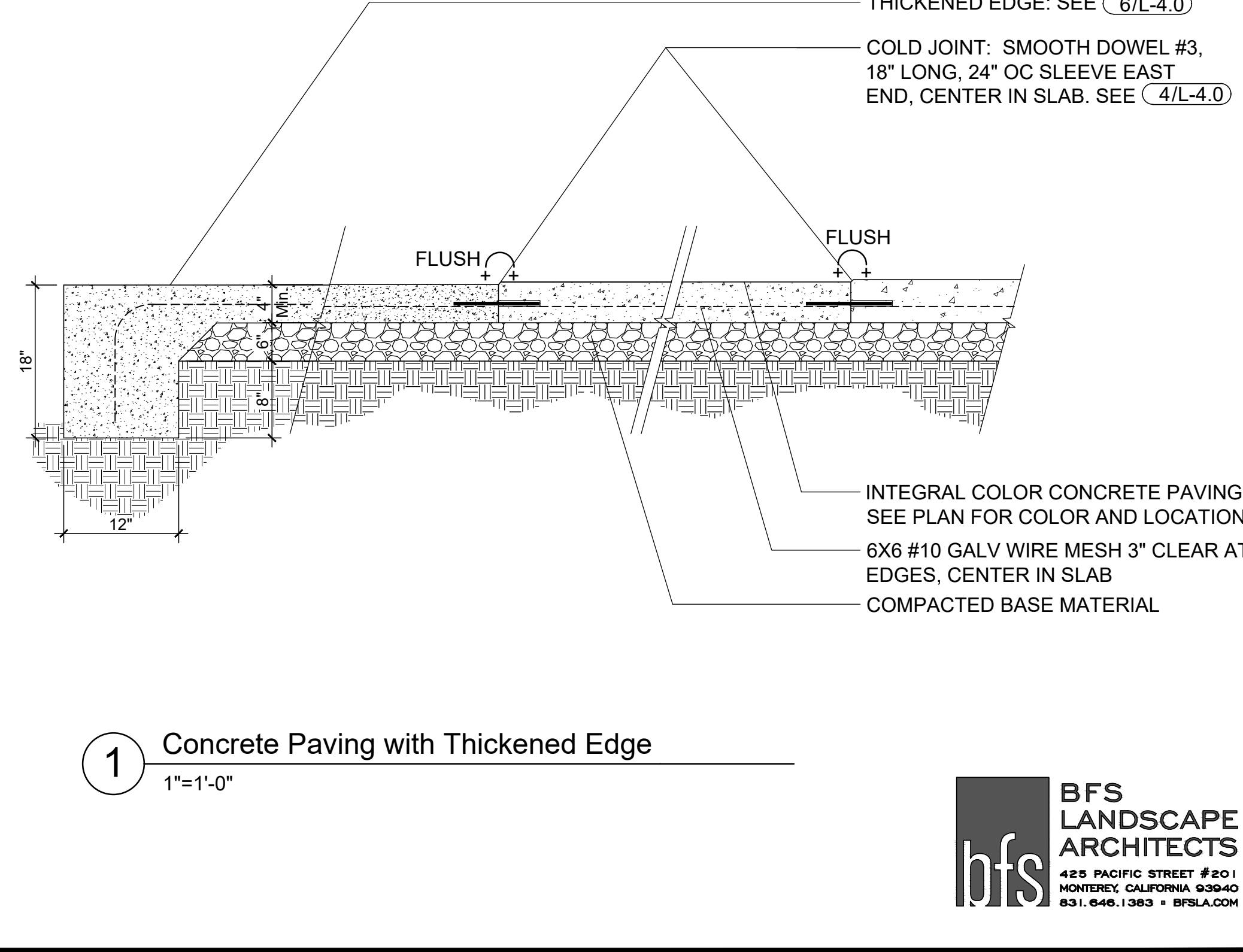
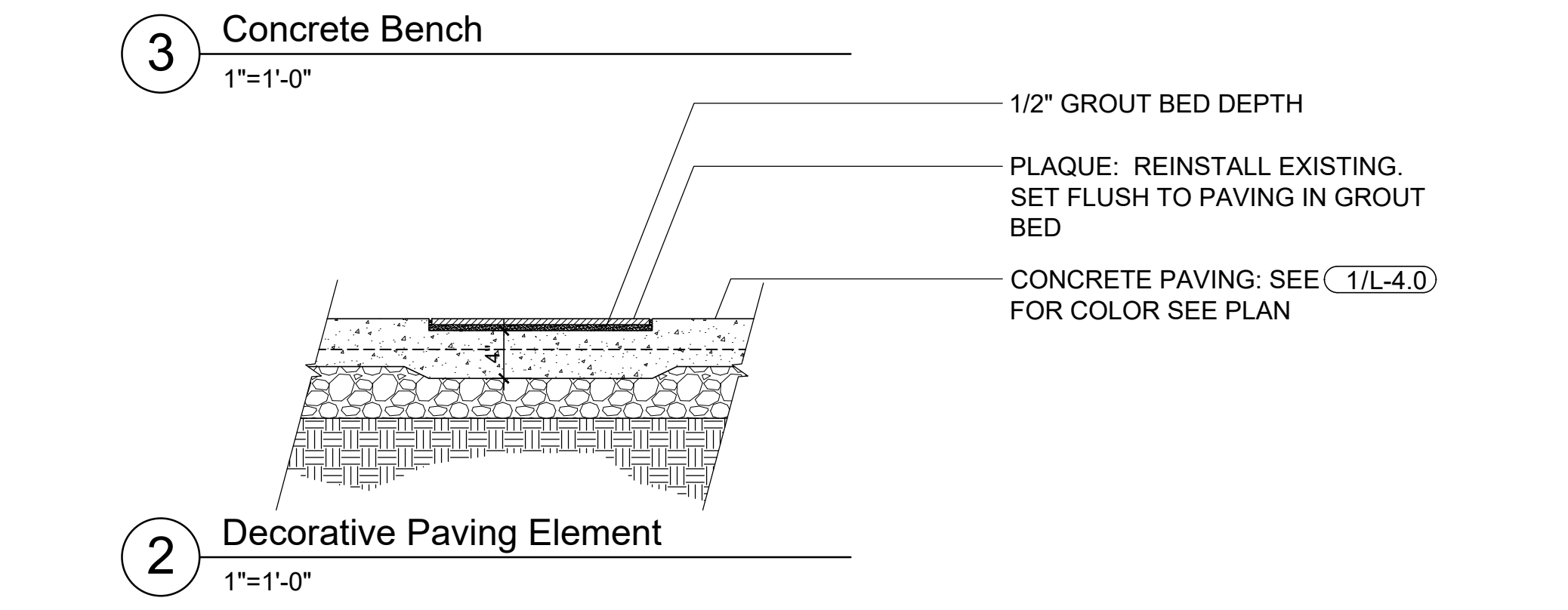
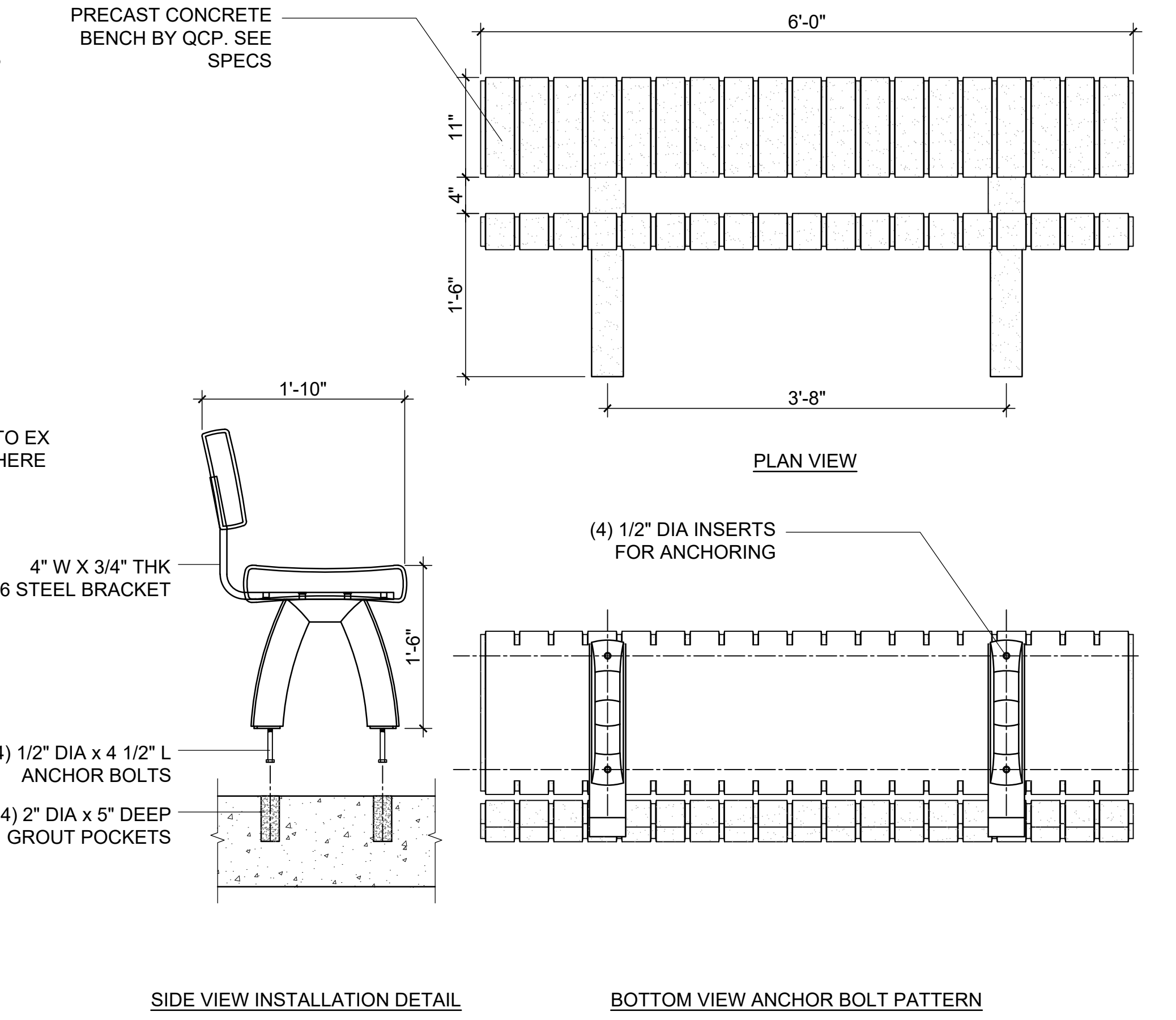
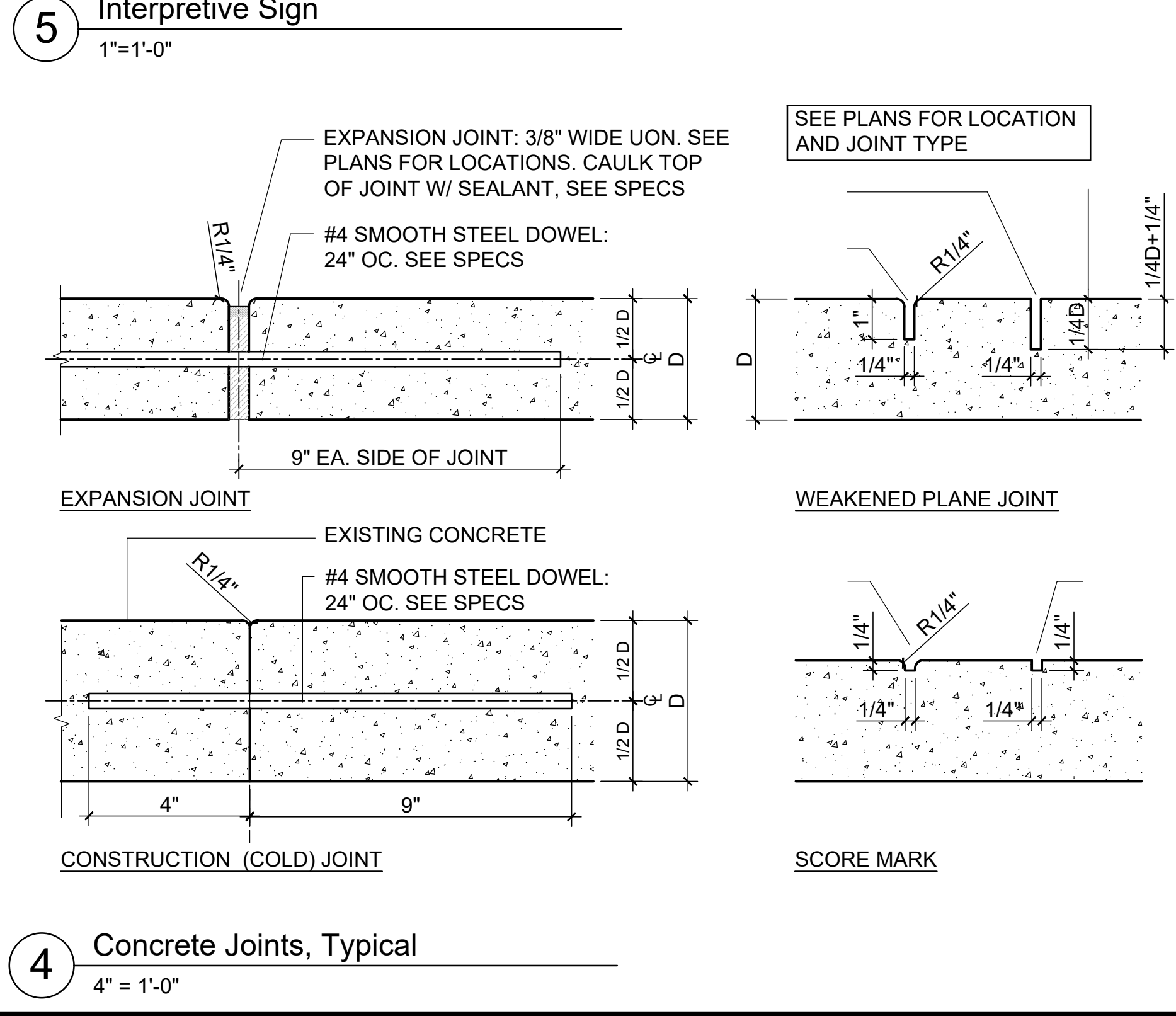
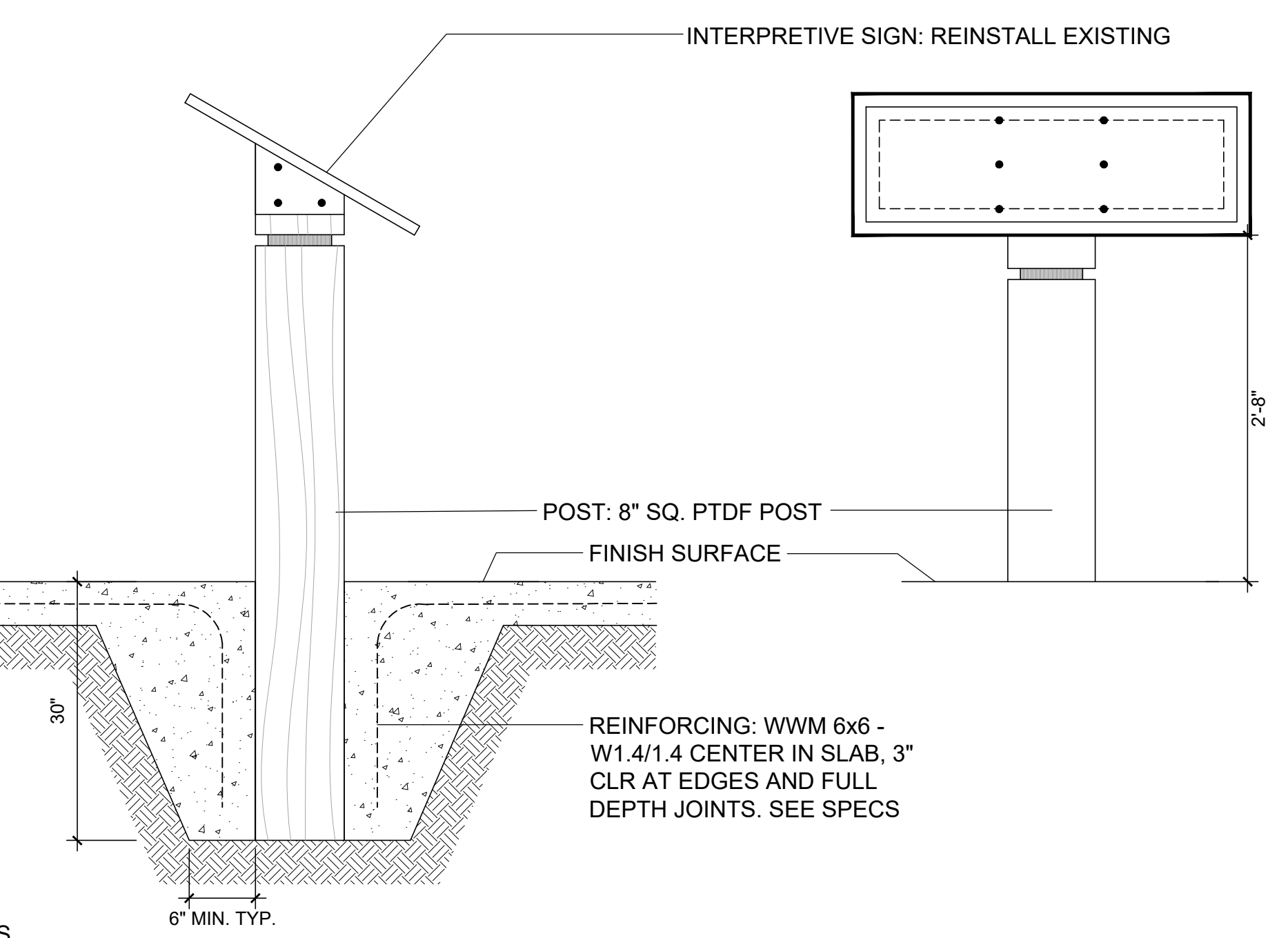
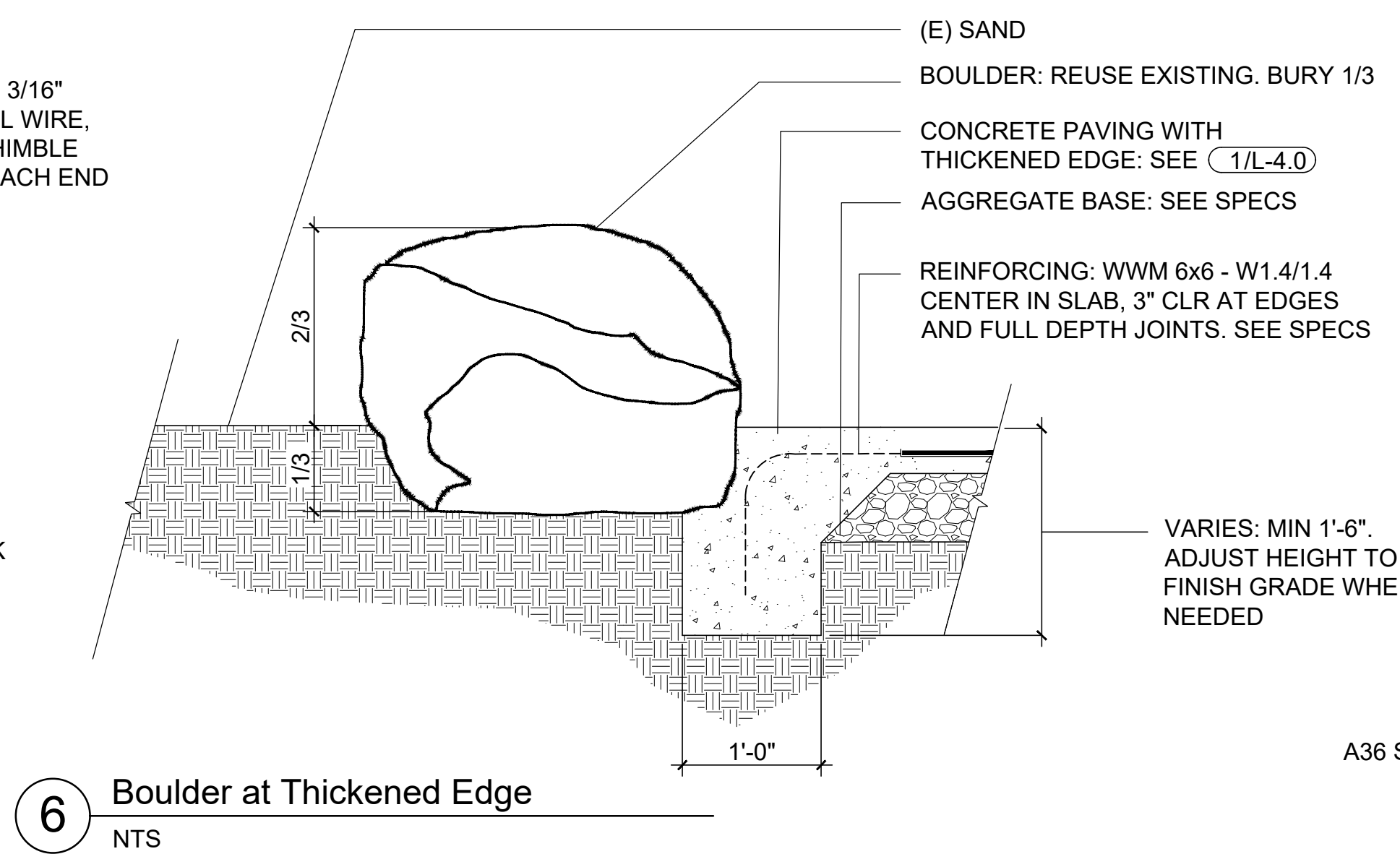
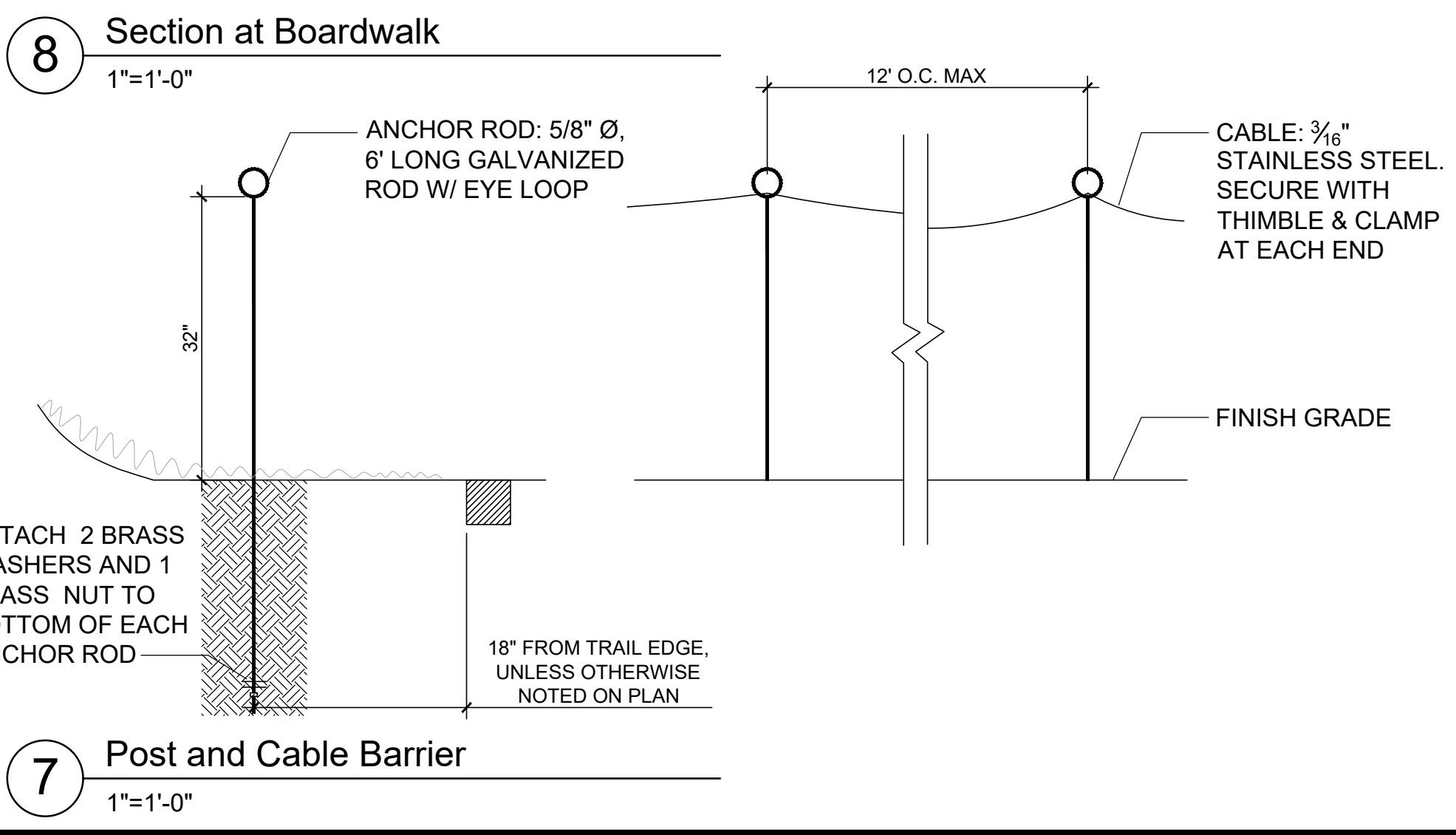
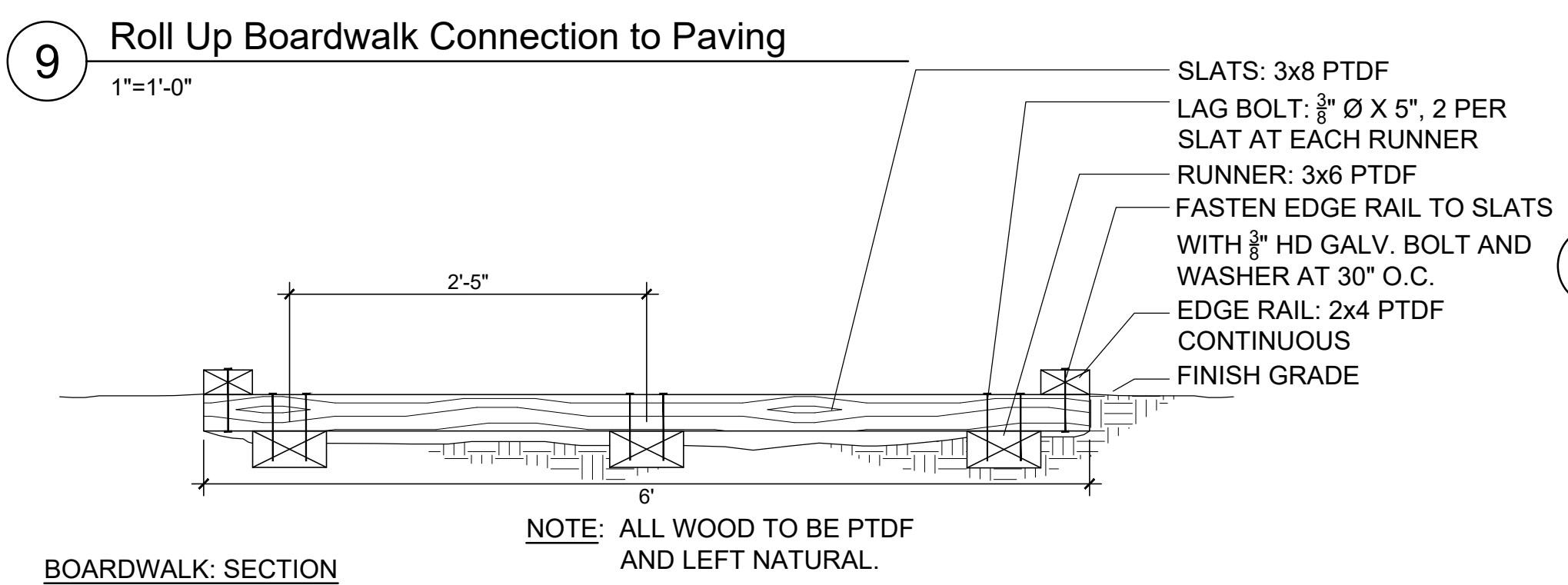
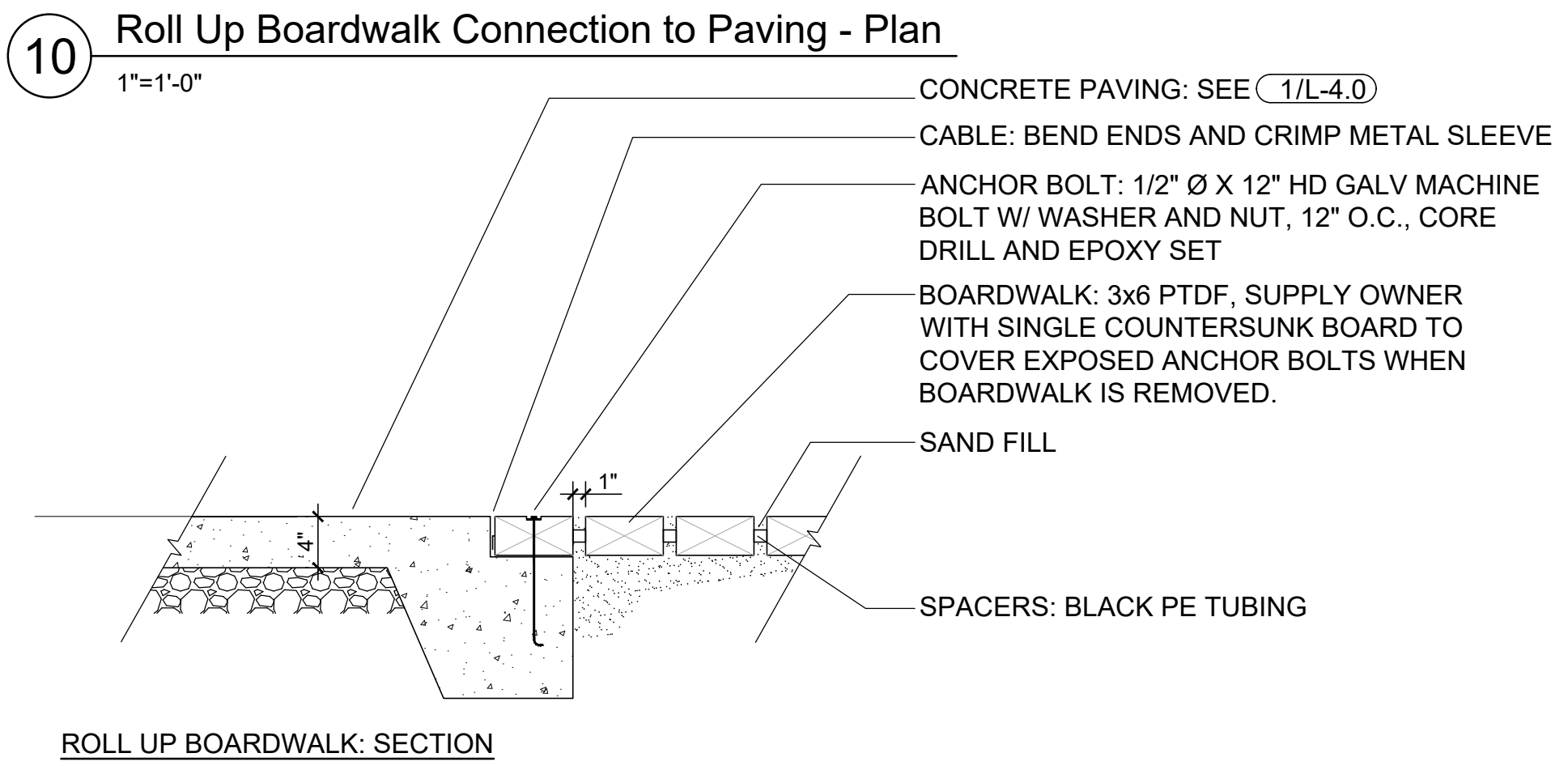
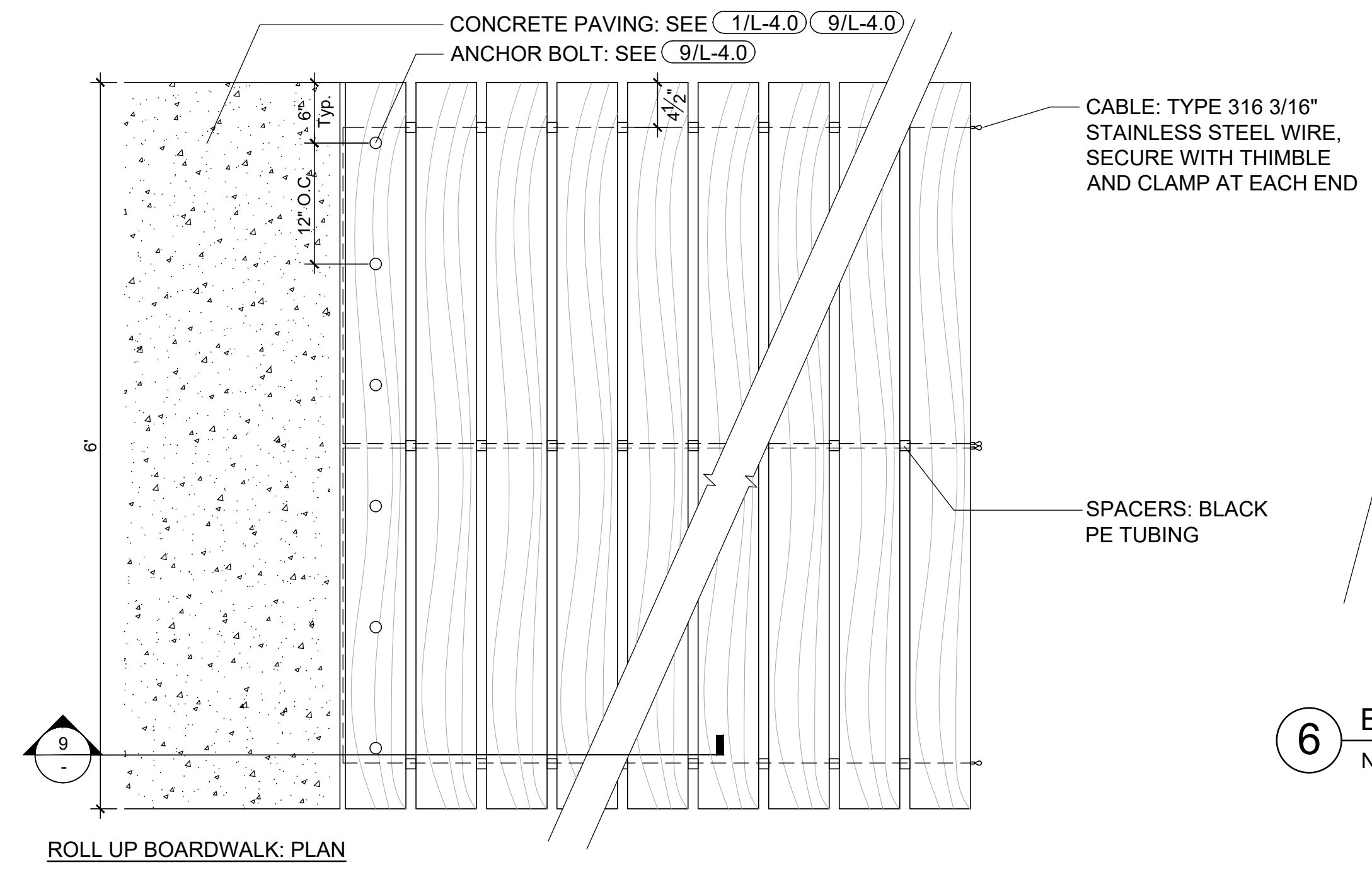
| REVISIONS | NO. | DATE | INITIAL | DESCRIPTION |
|-----------|-----|------|---------|-------------|
| | 1 | | | |
| | 2 | | | |
| | 3 | | | |
| | 4 | | | |
| | 5 | | | |

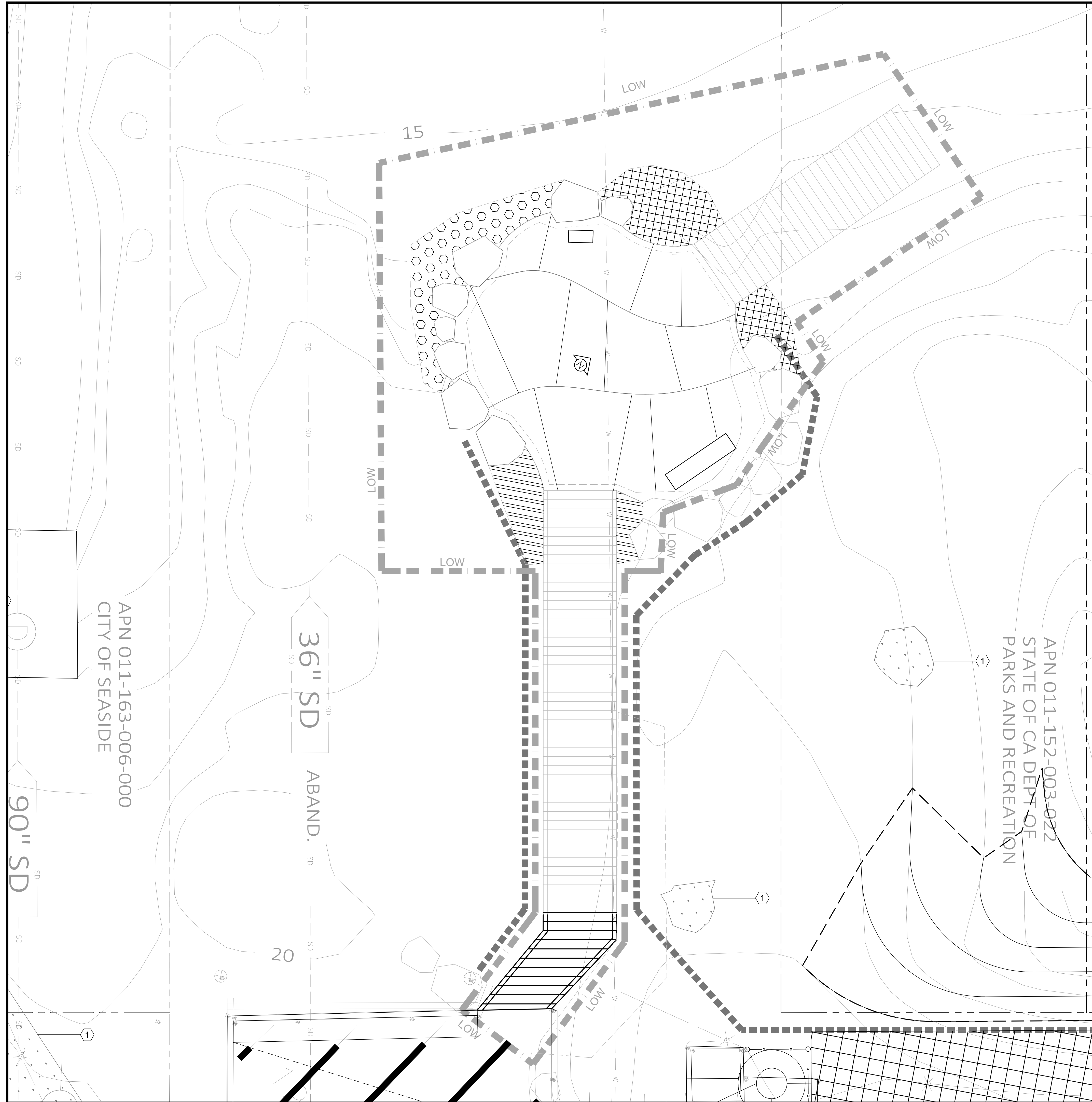
Harris & Associates
 450 Lincoln Avenue, suite 103, Salinas, CA 93901
 p: 831.233.9242 * WeAreHarris.com

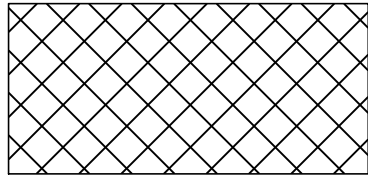
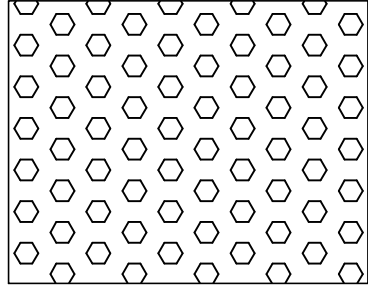
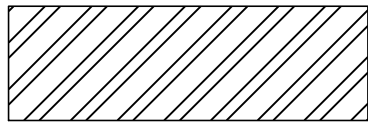


CITY OF SAND CITY
 ADDRESS: 1 PENDERGRASS WAY, SAND CITY, CA 93955
 PROJECT TITLE: WEST BAY ST. COASTAL ACCESS REPAIR PROJECT
 SHEET DESCRIPTION: Construction Details

DESIGNED BY: MB
 DATE: 05/10/21
 SCALE: AS SHOWN
 PROJECT NO.: 20.014
 DRAWING NO.: L-4.0
 SHEET 14 OF 15





| Plant Legend | | | |
|---|--|---------------------|----------------|
| West Bay Ave, Sand City | | | |
| Native Species | Species | # of seedlings | |
| Scientific Name | Common Name | % of total | 12" on center |
| Foredune | | | |
|  | <i>Abronia latifolia</i> | yellow sand verbena | 14 21 |
| | <i>Ambrosia chamissonis</i> | beach burr | 14 21 |
| | <i>Leymus mollis</i> | American dune grass | 14 21 |
| Mid/Rear Dune | | | |
|  | <i>Chorizanthe pungens</i> var. <i>pungens</i> | Mon. spineflower | 3 5 |
| | <i>Ericameria ericoides</i> | mock heather | 3 5 |
| | <i>Eriogonum parvifolium</i> | dune buckwheat | 5 8 |
| | <i>Eriophyllum staechadifolium</i> | lizardtail | 4 6 |
| | <i>Lupinus chamissonis</i> | silver beach lupine | 3 5 |
| Throughout | | | |
| | <i>Artemisia pycnocephala</i> | sagewort | 6 9 |
| | <i>Astragalus nuttallii</i> | rattleweed | 4 6 |
| | <i>Lessingia filaginifolia</i> | CA. beach aster | 3 5 |
| | <i>Poa douglasii</i> | sand dune bluegrass | 5 8 |
| Along Pathways | | | |
|  | <i>Armeria maritima</i> | sea thrift | 11 17 |
| | <i>Erigeron glaucus</i> | seaside daisy | 11 17 |
| | Total | | 100 154 |

LEGEND

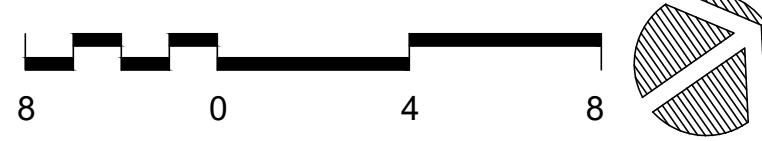
 LOW  Limit of Work Line

REFERENCE NOTES

- 1 Smith's Blue Butterfly Habitat Area Shall be Flagged and Avoided During Construction Biological Resources Report for West Bay Street Infrastructure Repair Project, Sand City, CA, Prepared by Denise Duffy & Associates, INC., Dated December 16, 2020. Keep the LOW Min. 3' Away from The Protected Plants.

GENERAL NOTES

- Plant quantities allow for planting on 3 foot centers, however plant spacing and location vary according to species dune topography and the presence of dead iceplant. All plantings to be supervised by the Engineer (Restoration Biologist).
- Sand Stabilization: Hand-sized bunches of sterile straw shall be punched vertically in the sand to a depth of 3" -12" to 18" o.c. in areas without dead ice plant.



| REVISIONS | |
|-----------|------------------|
| NO. | DATE DESCRIPTION |
| | |
| | |
| | |
| | |
| | |

Harris & Associates
 450 Lincoln Avenue, suite 103, Salinas, CA 93901
 p: 831.233.9242 * WeAreHarris.com



CITY OF SAND CITY
 ADDRESS: 1 PENDERGRASS WAY, SAND CITY, CA 93955
 PROJECT TITLE: WEST BAY ST. COASTAL ACCESS REPAIR PROJECT
 SHEET DESCRIPTION: **Planting Plan**

DESIGNED BY: MB
 DATE: 05/10/21
 SCALE: 1/8" = 1'-0"
 PROJECT NO.: **20.014**
 DRAWING NO.: **L-5.0**
 SHEET **15** OF **15**