

MARINA COAST WATER DISTRICT

1ST AVE GRAVITY SEWER MAIN REHABILITATION

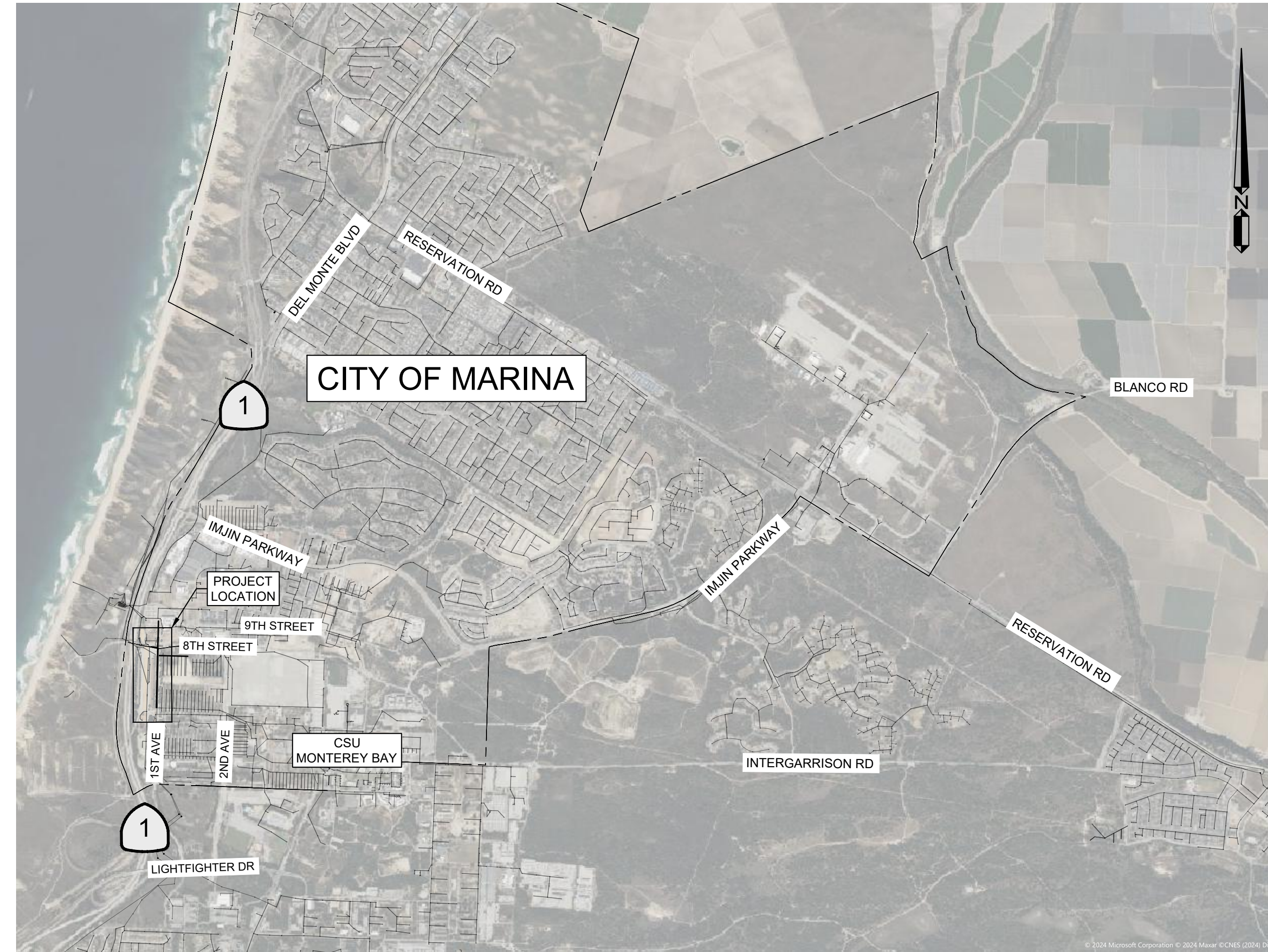
CIP OS-0210

MARINA, CA 93933

MONTEREY COUNTY

GENERAL NOTES

- THESE PLANS ARE PART OF A SET OF CONTRACT DOCUMENTS AND SHALL NOT BE CONSIDERED THE SOLE SOURCE OF CONSTRUCTION INFORMATION. ALL CONSTRUCTION WORK AND INSTALLATIONS SHALL CONFORM TO THE MARINA COAST WATER DISTRICT (MCWD/OWNER) AND THE CITY OF MARINA (CITY) STANDARD DRAWINGS AND SPECIFICATIONS. THE CONTRACT DOCUMENTS, AND WORK SHALL BE SUBJECT TO THE APPROVAL OF MCWD AND THE COUNTY.
- THE CONTRACTOR SHALL HAVE COPIES OF THE APPROVED CONTRACT DOCUMENTS FOR THIS PROJECT ON SITE AT ALL TIMES AND SHALL BE FAMILIAR WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE DURING THE COURSE OF THE 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 ENGINEER AND OWNER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER, OR THIRD PARTY IN VIOLATION OF THE LAW OR IN TRESPASS. THE CONTRACTOR SHALL PRACTICE SAFETY AT ALL TIMES AND SHALL FURNISH, ERECT, AND MAINTAIN, SUCH FENCES, BARRICADES, LIGHTS, AND SIGNS NECESSARY TO GIVE ADEQUATE PROTECTION TO THE PUBLIC AT ALL TIMES.
- INFORMATION PERTAINING TO EXISTING UNDERGROUND FACILITIES IS BASED ON RECORD INFORMATION AND IS AS SHOWN FOR INFORMATIONAL PURPOSES ONLY. UNDERGROUND FEATURES SHOWN IN PLAN VIEW ON THE PLANS ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT, AND MAY NOT APPEAR IN PROFILE OR SECTION VIEWS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL AGENCIES INVOLVED AND SHALL LOCATE ALL FACILITIES PRIOR TO EXCAVATION IN ANY AREA. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA), TOLL FREE AT 1-800-642-2444, MCWD, AND THE CITY, 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL CONTINUALLY REVIEW JOB SITE CONDITIONS. CONDITIONS REQUIRING CONSTRUCTION DIFFERENT FROM THAT SHOWN ON THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY AND PRIOR TO PROCEEDING WITH THE AFFECTED CONSTRUCTION.
- THESE DRAWINGS REPRESENT THE FINISHED CONDITION AND UNLESS OTHERWISE INDICATED, THEY DO NOT SHOW THE METHOD OF CONSTRUCTION.
- ALL IMPROVEMENTS SHOWN OR INDICATED ON THESE DRAWINGS ARE TO BE CONSTRUCTED AND/OR INSTALLED BY THE CONTRACTOR IN THIS PROJECT, UNLESS THEY ARE CALLED OUT AS: "EXISTING", "FUTURE", "NIC", "NOT A PART", OR HAVE SOME OTHER EXCLUDING NOTATION.
- THE CONTRACTOR SHALL KEEP A SET OF PROJECT DRAWINGS ON WHICH RECORD INFORMATION SHALL BE PLACED NOTING DEVIATIONS FROM THE PLANS IN THE LOCATION, GRADE, SIZE, TYPE, AND SCOPE OF WORK WHICH IS CONSTRUCTED.
- OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS AND STANDARDS SHALL BE OBSERVED AT THE JOB SITE AT ALL TIMES.
- CONTRACTOR SHALL ORGANIZE A PRE-CONSTRUCTION MEETING PRIOR TO COMMENCEMENT OF WORK. THE MEETING SHALL INCLUDE (AT A MINIMUM) THE OWNER/REPRESENTATIVE, CONTRACTORS, ENGINEER OF RECORD, SOILS ENGINEER, PERTINENT UTILITY COMPANIES, AND SURVEYOR.
- NO TOPOGRAPHIC INFORMATION HAS BEEN DELINEATED ON THESE PLANS.
- NO CONSTRUCTION SHALL BE STARTED WITHOUT PLANS APPROVED BY MCWD AND THE CITY. MCWD AND THE CITY SHALL BE NOTIFIED AT LEAST 3 WORKING DAYS PRIOR TO START OF CONSTRUCTION. ANY CONSTRUCTION DONE WITHOUT APPROVED PLANS OR PRIOR NOTIFICATION TO MCWD AND THE CITY WILL BE REJECTED AND WILL BE AT THE CONTRACTOR'S RISK.
- SOILS TESTS SHALL BE DONE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. ALL TESTS MUST BE MADE WITHIN 15 DAYS PRIOR TO THE PLACEMENT OF MATERIAL. THE TEST RESULTS SHALL CLEARLY INDICATE THE LOCATION AND SOURCE OF THE MATERIAL.
- COMPACTION TESTS SHALL BE MADE ON SUB-GRADE MATERIAL AND MATERIAL IN ACCORDANCE WITH THESE DRAWINGS AND THE SPECIFICATIONS. SAID TESTS SHALL BE MADE PRIOR TO THE PLACEMENT OF THE NEXT MATERIAL.
- THE ENGINEER OF RECORD SHALL PERFORM PERIODIC REVIEWS OF COMPLETED WORK TO DETERMINE GENERAL CONFORMANCE WITH THE APPROVED PLANS. THE CONTRACTOR SHALL CORRECT ANY DIFFERENCES FOUND BY SUCH SURVEY AND WILL PROVIDE ALL CONTRACTOR'S RECORDS KEPT DURING THE COURSE OF CONSTRUCTION TO THE ENGINEER OF RECORD FOR PREPARATION OF RECORD DRAWINGS.
- THE MCWD INSPECTOR ACTING ON BEHALF OF MCWD MAY REQUIRE REVISIONS IN THE PLANS TO RESOLVE UNFORESEEN PROBLEMS THAT MAY ARISE IN THE FIELD. ALL REVISIONS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER OF RECORD.
- THE ENGINEER OF RECORD MUST VERIFY THAT THE IMPROVEMENTS, WHEN COMPLETED, ARE IN CONFORMANCE WITH THE PLANS PRIOR TO THE REQUEST FOR FINAL INSPECTION. RECORD DRAWINGS ARE TO BE PREPARED FOLLOWING THE REQUIREMENTS DEFINED IN THE TECHNICAL SPECIFICATIONS. THE CIVIL ENGINEER PREPARING THE RECORD DRAWING PLANS WILL BE PRESENT WHEN THE FINAL INSPECTION IS MADE.
- ALL PERTINENT UTILITY COMPANIES SHALL BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
- A CITY OF MARINA ENCROACHMENT PERMIT IS REQUIRED FOR ALL WORK DONE WITHIN ANY ROAD RIGHT-OF-WAY.
- CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE HOURS OF 7:00AM TO 5:00PM MONDAY THROUGH FRIDAY UNLESS APPROVED BY MCWD AND THE CITY.



VICINITY MAP
NTS

Sheet List Table	
Sheet Number	Sheet Title
C-1.0	COVER AND NOTES
C-1.1	SITE PLAN
C-2.0	STANDARD DETAILS
C-3.0	EROSION CONTROL PLAN
C-3.1	EROSION CONTROL PLAN DETAILS
C-3.2	EROSION CONTROL PLAN BMPs

LEGEND

EXISTING	PROPOSED	DESCRIPTION
(100.0 FS)	101.50 FS	SPOT ELEVATIONS
⊙	⊙	SEWER MANHOLE
⊙	⊙	SEWER CLEANOUT
—	—	SERVICE LATERAL (W=WATER, G=GAS, U=UTILITIES)
—	—	SEWER LATERAL
△	△	SURVEY MONUMENT
⊕ FT	⊕ 2.00%	BENCH MARK
(2.00) %	← 2.00%	SLOPE PERCENTAGE
● PP	—	POWER POLE
—	—	ABANDON UTILITY
—	—	EDGE OF PAVEMENT
— OH	—	OVERHEAD UTILITY LINE
— WL	—	WATER LINE
— SS	—	SEWER FORCE MAIN
— SS	—	GRAVITY SEWER LINE
— SD	—	STORM DRAIN
— GAS	—	UNDERGROUND GAS LINE
— UTL	—	UNDERGROUND UTILITY LINE LOCATION
— ELE	—	UNDERGROUND ELECTRICAL LINE
— CTV	—	UNDERGROUND CABLE TELEVISION LINE
— TEL	—	UNDERGROUND TELEPHONE LINE
—	—	RIGHT OF WAY
—	—	EASEMENT
—	—	CENTERLINE
— x — x	— x — x	BARBED WIRE FENCE
— o — o	— o — o	CHAIN LINK FENCE
— □ — □	— □ — □	PRIVATE FENCE

ABBREVIATIONS

AC	ASPHALTIC CONCRETE	NGVD	NATIONAL GEODETIC VERTICAL DATUM
ACP	ASBESTOS CEMENT PIPE	NIC	NOT IN CONTRACT
AVG	AVERAGE	NO	NORMALLY OPEN
BF	BLIND FLANGE	NTS	NOT TO SCALE
BLDG	BUILDING	OD	OUTSIDE DIAMETER
BM	BENCH MARK	PCC	PORTLAND CEMENT CONCRETE
C	CURB	PH	POTHOLE (UTILITY WAS POTHOLED)
CL	CENTERLINE	POC	POINT OF CONNECTION
CL	CLASS	PP	POWER POLE
CMP	CORRUGATED METAL PIPE	PSF	POUND PER SQUARE FOOT
CO	CLEANOUT	PSI	POUND PER SQUARE INCH
CONC	CONCRETE	PVC	POLYVINYL CHLORIDE
CONST	CONSTRUCTION	R	RADIUS
CONT	CONTINUOUS	RC	REINFORCED CONCRETE
CP	CATHODIC PROTECTION	RCP	REINFORCED CONCRETE PIPE
CPLG	COUPLING	RD	ROAD
CY	CUBIC YARD	REQD	REQUIRED
DET	DETAIL	RT	RIGHT
DI	DUCTILE IRON (PIPE)	R/W	RIGHT OF WAY
DIA	DIAMETER	SS	SANITARY SEWER
DIM	DIMENSION	SCH	SCHEDULE
D/W	DRIVEWAY	SD	STORM DRAIN
EA	EACH	SHT	SHEET
ELE	ELEVATION	SPEC	SPECIFICATIONS
EP	EDGE OF PAVEMENT	SSFM	SANITARY SEWER FORCE MAIN
EX	EXISTING	ST	STREET
EG	EXISTING GROUND	STA	STATION
FCA	FLANGE COUPLING ADAPTOR	STD	STANDARD
FF	FINISH FLOOR	STL	STEEL
FG	FINISH GRADE	SV	SOLENOID VALVE
FL	FLOW LINE	SW	SIDEWALK
FLG	FLANGE	T	TELEPHONE
FS	FINISH SURFACE	TB	THRUST BLOCK
FT	FEET	TB	TOP OF BANK
G	GAS	TC	TOP OF CURB
GA	GAGE	TF	TOP OF FOOTING
GAL	GALLON	TG	TOP OF GRADE
GALV	GALVANIZED	TP	TOP OF PAVEMENT
GB	GRADE BREAK	TYP	TYPICAL
GPD	GALLONS PER DAY	TW	TOP WALL
GPM	GALLONS PER MINUTE	UTL	COMMON TRENCH UTILITIES
HDPE	HIGH DENSITY POLYETHYLENE	VAR	VARIES
HGL	HYDRAULIC GRADE LINE	VIC	VICTAULIC COUPLING
ID	INSIDE DIAMETER	VERT	VERTICAL
IN	INCHES	W	WATER
INV	INVERT	WF	WIDE FLANGE
L	LENGTH	WL	WATER LINE
LAT	LATERAL	WM	WATER METER
LF	LINEAR FEET	WS	WATER SERVICE
LP	LIGHT POLE	WV	WATER VALVE
LS	LIFT STATION	WWM	WELDED WIRE MESH
LT	LEFT	WW	WET WELL
M	METER		
MAX	MAXIMUM		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MH	MANHOLE		
N/A	NOT APPLICABLE		
NC	NORMALLY CLOSED		

*NOTE: THIS IS A STANDARD SET OF ABBREVIATIONS. NOT ALL ABBREVIATIONS SHOWN WILL APPLY TO THIS WORK.

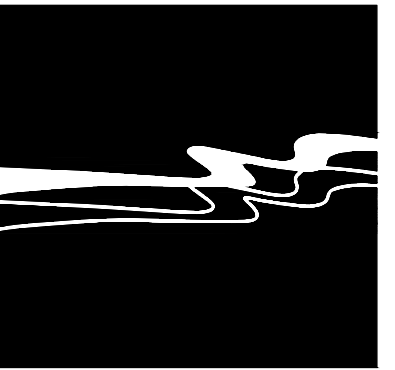
APPROVED BY:

JACK GAO, PMP
SENIOR PROJECT MANAGER
MARINA COAST WATER DISTRICT



Know what's below.
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Rev.	Date	Description of Revisions	By



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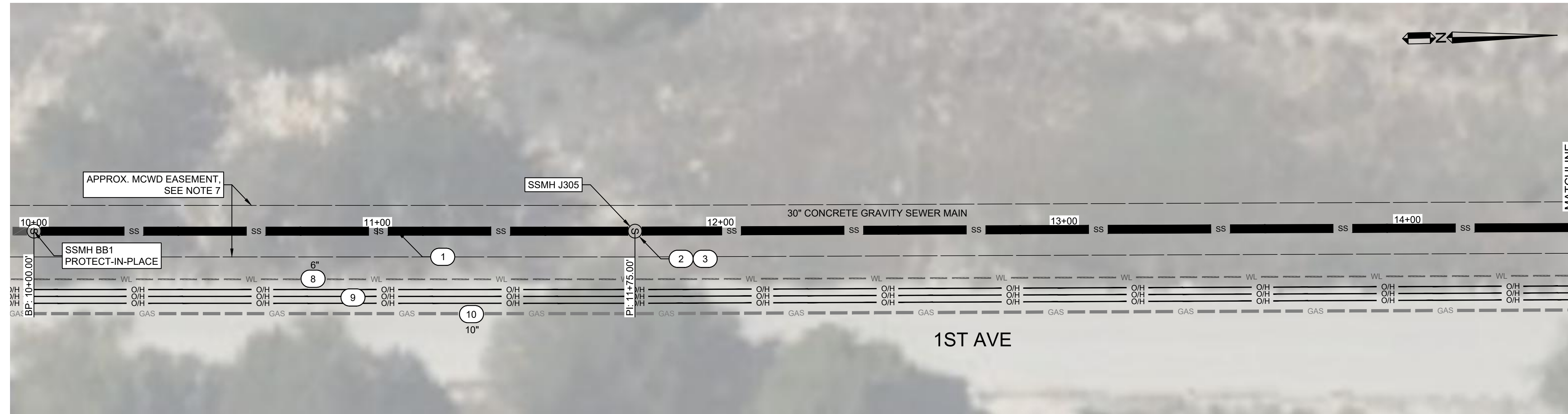
MARINA COAST WATER DISTRICT
1ST AVE GRAVITY SEWER MAIN REHABILITATION
COVER AND NOTES

JOB #: 1045-0008-00
DESIGNERS: ZCM
DRAWN BY: ZCM
DATE: 02/13/25

DRAWING NO.

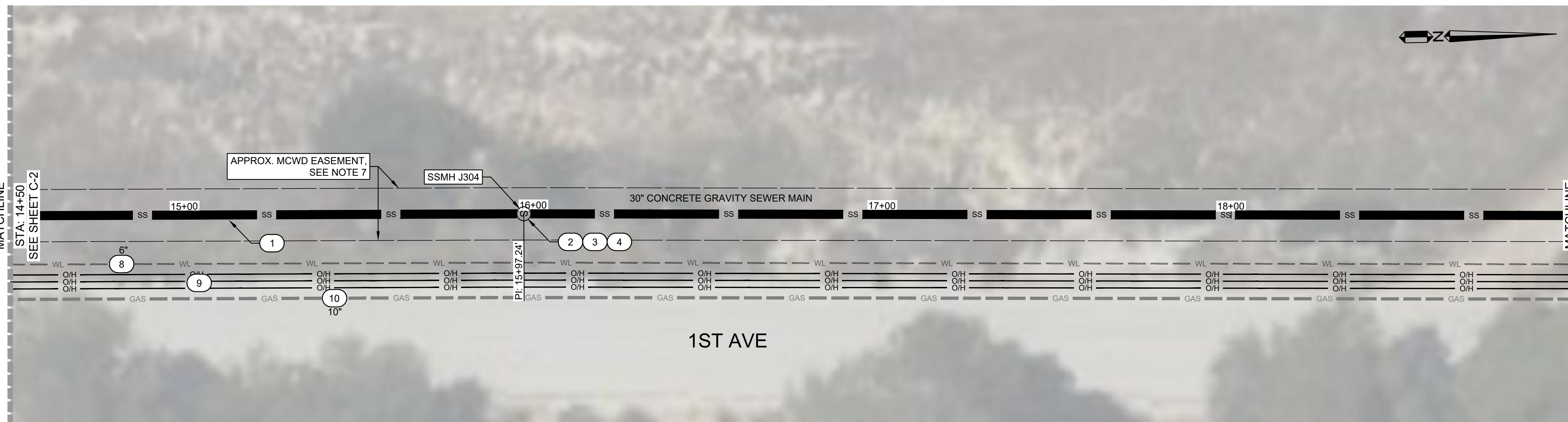
C-1.0

1 OF 6 SHEETS



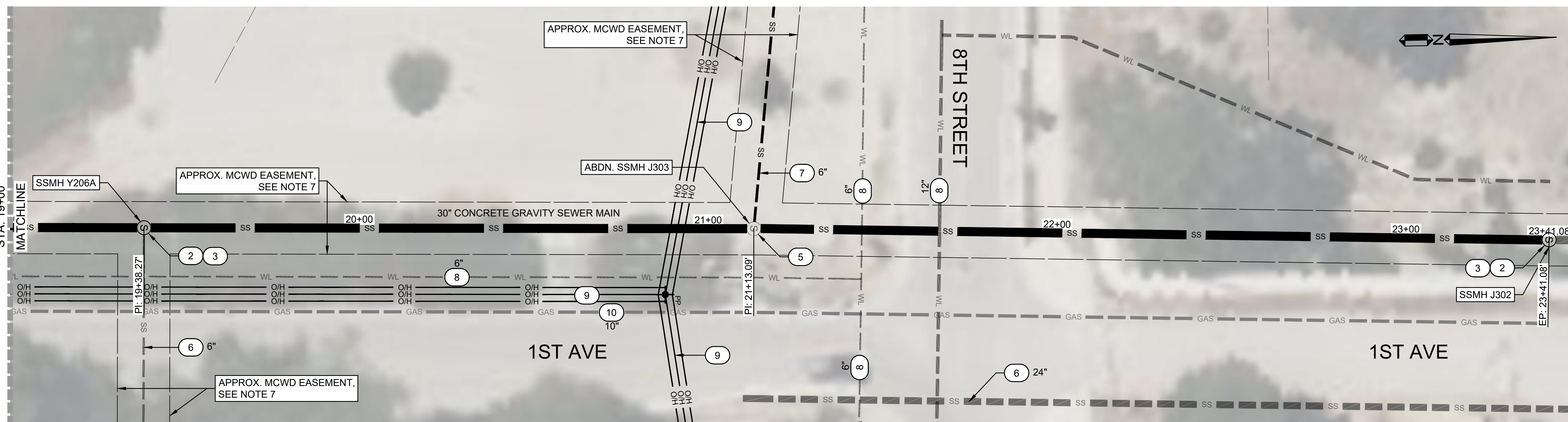
1 IMPROVEMENT PLAN - STA 10+00 TO STA 14+50

SCALE: 1" = 20'



1 IMPROVEMENT PLAN - STA 10+00 TO STA 14+50

SCALE: 1" = 20'



1 IMPROVEMENT PLAN - STA 10+00 TO STA 14+50

SCALE: 1" = 20'

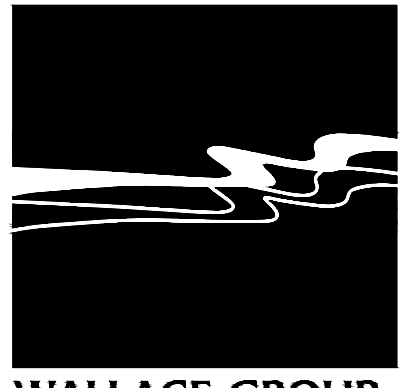
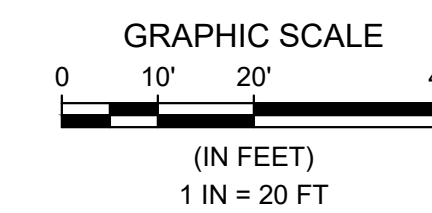
REFERENCE NOTES: (xx)

- 1 PROVIDE APPROX. 1,350 LF CIPP LINING OF EX. 30" SANITARY SEWER GRAVITY MAIN PER SPECIFICATION SECTION 33 01 30.72. CONTRACTOR SHALL PERFORM PRE-INSTALLATION AND POST-INSTALLATION CCTV INSPECTION.
- 2 LINE EX. MANHOLE WITH EPOXY COATING PER SPECIFICATION SECTION 09 90 00. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO SUBMITTAL AND ORDERING.
- 3 REMOVE AND REPLACE EX. MANHOLE RING AND COVER PER SPECIFICATION SECTION 33 01 30.81.
- 4 REMOVE AND REPLACE EX. MANHOLE CONE PER SPECIFICATION SECTION 33 01 30.81. MANHOLE CONE SHALL BE REPLACED PRIOR TO EPOXY COATING. SEE REFERENCE NOTE 2.
- 5 ABANDONED SS MANHOLE. CONTRACTOR TO PERFORM CCTV INSPECTION OF THIS MANHOLE AS PART OF PERFORMANCE WORK STATEMENT PER SPECIFICATION SECTION 33 01 30.72.
- 6 EX. SANITARY SEWER GRAVITY MAIN. PROTECT IN PLACE.
- 7 ABANDONED SANITARY SEWER GRAVITY MAIN. CONTRACTOR TO VERIFY THAT MAIN HAS BEEN PROPERLY SEALED PRIOR TO CIPP LINER INSTALLATION. SEAL WITH NON-SHRINK GROUT, AS NEEDED.
- 8 EX. WATER MAIN. PROTECT-IN-PLACE
- 9 EX. OVERHEAD POWER LINES. PROTECT-IN-PLACE.
- 10 EX. HIGH PRESSURE GAS MAIN. PROTECT-IN-PLACE.

GENERAL NOTES:

1. AERIAL IMAGERY IS SOURCED FROM ESRI LANDSAT IMAGING, AND IS PROVIDED FOR REFERENCE ONLY.
2. SEWER INFRASTRUCTURE LOCATIONS AND SIZES ARE BASED ON AVAILABLE GIS DATA AND AVAILABLE RECORD DRAWINGS PROVIDED BY MARINA COAST WATER DISTRICT. CONTRACTOR TO VERIFY ALL DIMENSIONS, DEPTHS, AND MEASUREMENTS PRIOR TO SUBMITTAL AND ORDERING.
3. ALL UTILITIES SHOWN ARE APPROXIMATE AND ARE BASED ON AVAILABLE RECORD DRAWINGS. CONTRACTOR TO CONTACT USA FOR UTILITY LOCATION AND VERIFICATION. REFER TO CONTRACT DOCUMENTS, GENERAL CONDITIONS.
4. WORK OCCURS WITHIN THE CITY OF MARINA. CONTRACTOR SHALL PROCURE THE NECESSARY ENCROACHMENT PERMITS, PER SPECIFICATION SECTION 01 11 00 AND RELATED SECTIONS.
5. ANTICIPATED SEWER BYPASS FLOWS PROVIDED BELOW. FLOWS BASED ON PEAK DRY WEATHER FLOW CRITERIA OF THE 2020 MARINA COAST WATER DISTRICT SEWER MASTER PLAN. CONTRACTOR TO VERIFY FLOWS AS PART OF SEWER BYPASS PLAN PER SPECIFICATION SECTION 33 31 20.
 - 5.1. ANTICIPATED BYPASS FLOW: 6,000 GPM
6. 15' WIDE MCWD EASEMENT, CENTERED ON CL OF EX. SANITARY SEWER MAINS. ALL EASEMENTS ARE SHOWN AS APPROXIMATE.

MANHOLE DIMENSIONS		
MANHOLE ID	DIA (IN)	DEPTH (FT)
J305	48	13.0
J304	48	17.0
Y206A	48	13.0
J302	48	11.0



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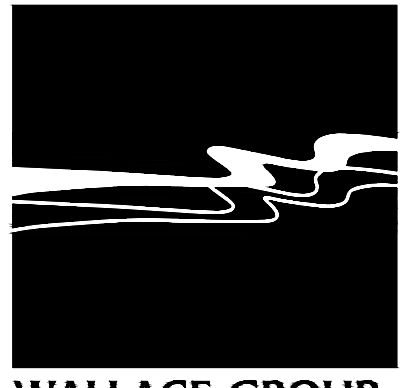


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MARINA COAST WATER DISTRICT
 1ST AVE GRAVITY SEWER MAIN REHABILITATION
 SITE PLAN

JOB #: 1045-0008-00
 DESIGNERS: ZCM
 DRAWN BY: ZCM
 DATE: 02/13/25
 DRAWING NO.
 C-1.1
 2 OF 6 SHEETS



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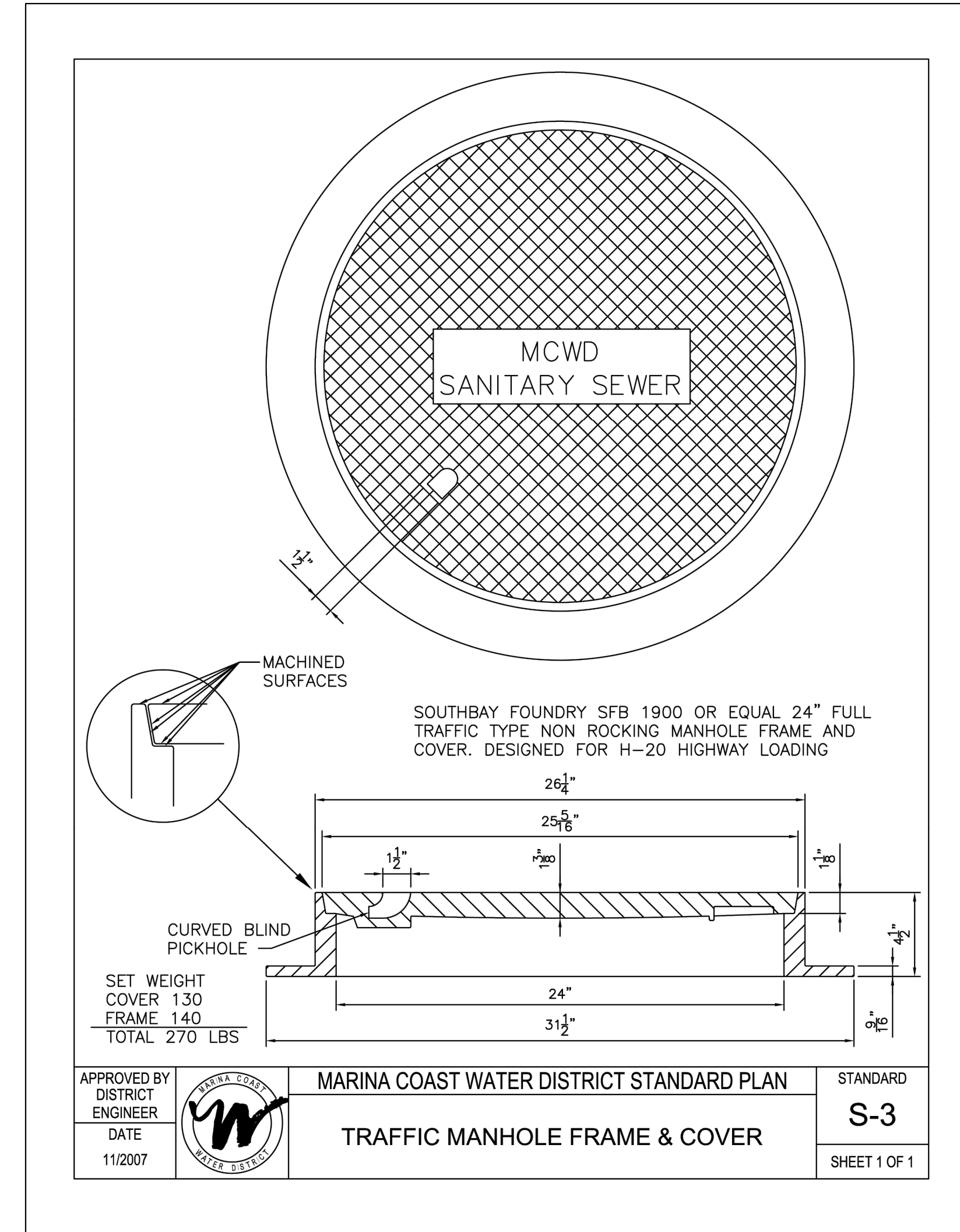
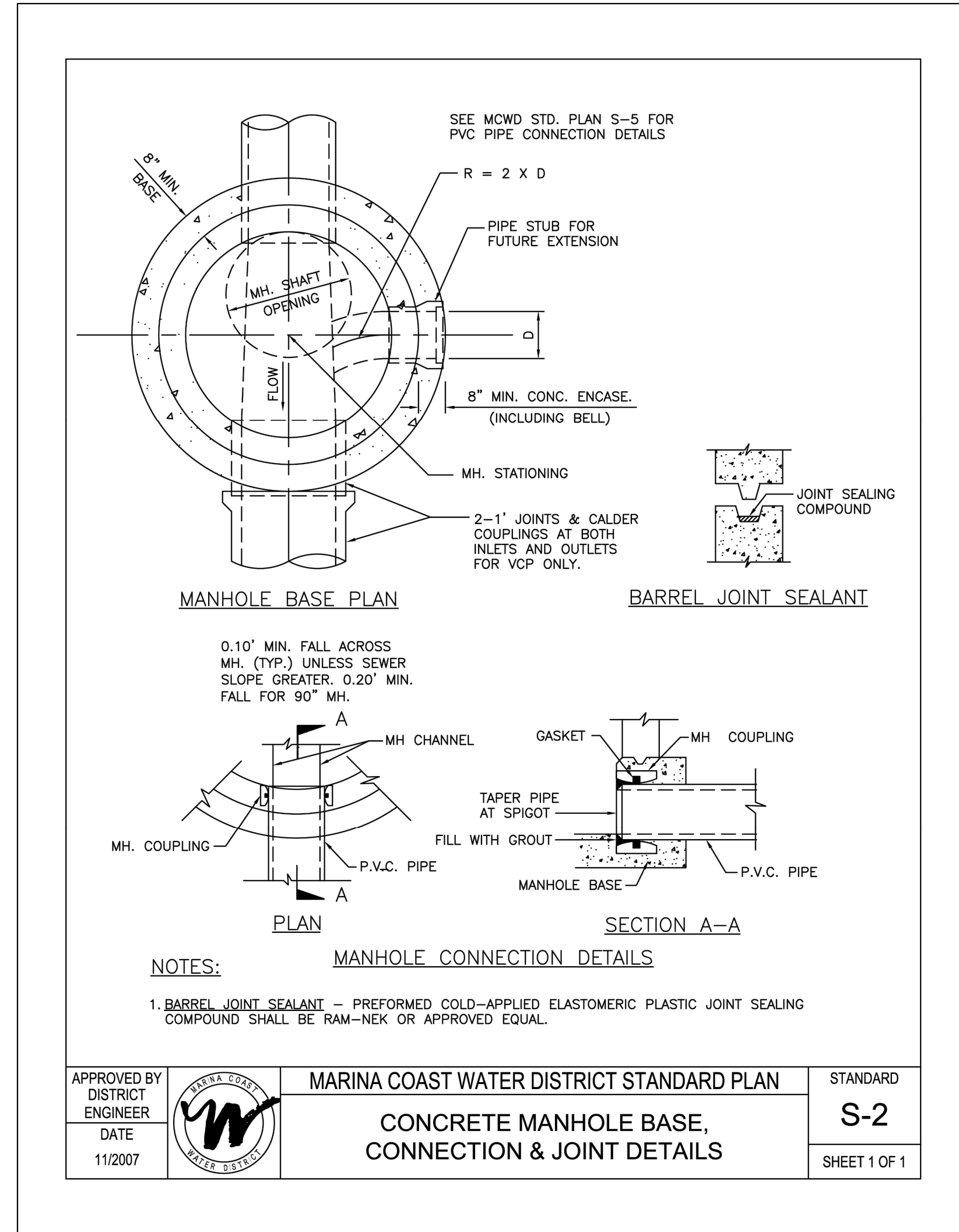
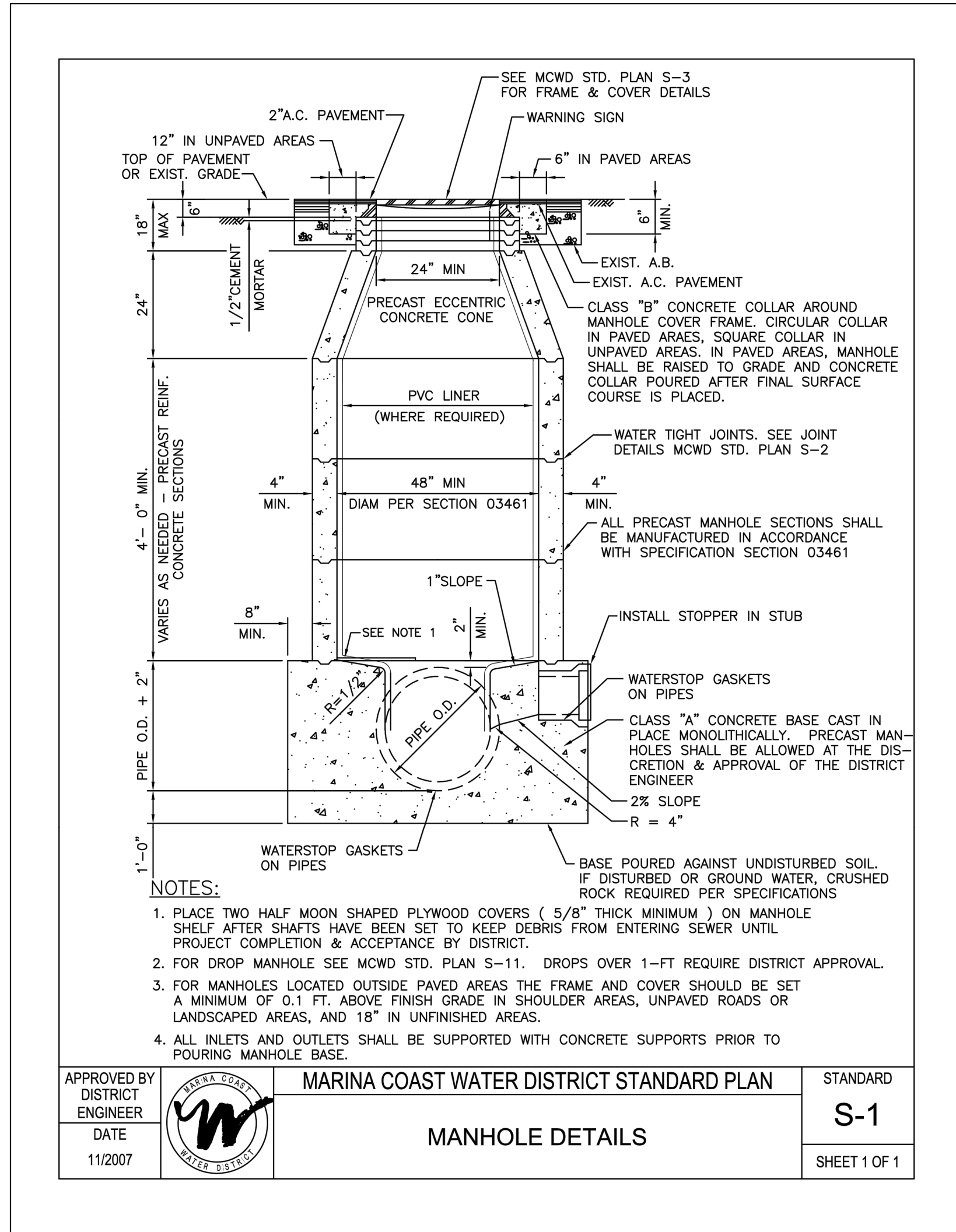


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MARINA COAST WATER DISTRICT
1ST AVE GRAVITY SEWER MAIN REHABILITATION
STANDARD DETAILS

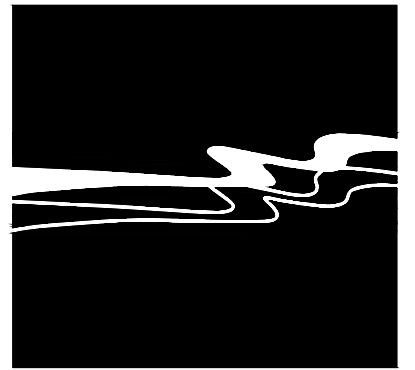
MARINA COAST WATER DISTRICT
1ST AVE GRAVITY SEWER MAIN REHABILITATION
STANDARD DETAILS

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3 OF 6 SHEETS



1 MARINA COAST WATER DISTRICT STANDARD SEWER PLANS

SCALE: NTS



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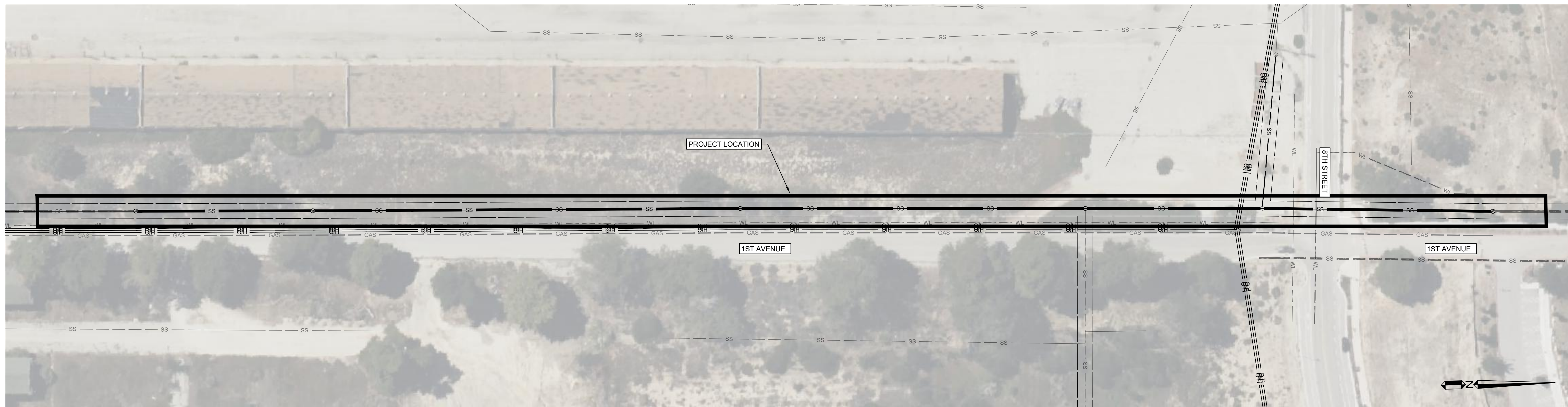
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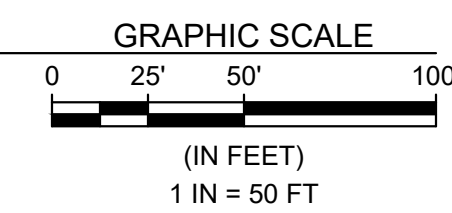
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1 EROSION, SEDIMENT, AND WATER CONTROL PLAN



PROJECT SCOPE

- REHABILITATION OF 1,350 LINEAR FEET OF EX. 30" CONCRETE GRAVITY SEWER MAIN WITH CURED-IN-PLACE PIPE LINING SYSTEM.
- EPOXY LINING THE INTERIOR OF FOUR (4) OF EX. MANHOLES LOCATED ALONG THE GRAVITY SEWER MAIN, AS SHOWN IN THE PLANS.
- REPLACEMENT OF FOUR (4) MANHOLE FRAMES, COVERS, AND CONCRETE COLLARS.
- REPLACEMENT OF ONE (1) EXISTING MANHOLE CONE SECTION.
- SEWER BYPASSING.

DISTURBED AREA

DISTURBED AREA:
 1,350 FT X 30 FT = 40,500 SF
 TOTAL DISTURBED AREA = 40,500 SF (0.93 AC)

GENERAL NOTES:

- ALL BMPs SHALL BE INSTALLED PER THE LATEST VERSION OF THE CALTRANS CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) MANUAL AND DETAILS SHOWN IN SHEETS C-3.1 AND C-3.2.

EROSION AND SEDIMENT CONTROL NOTES:

- CONSTRUCTION EQUIPMENT PARKING AND STORAGE, DRIP PANS REQUIRED. FOR FUELING AND MAINTENANCE, SEE REQUIRED BMP'S NS-9 AND NS-10, SHEET C-3.2.
- CONSTRUCTION TRASH RECYCLING MUST BE COVERED WITH WATERTIGHT COVER AT ALL TIMES, WITH NO OVERFLOWS ALLOWED PER REQUIRED BMP WM-5. SEE SHEET C-3.2.
- FUEL STORAGE/HAZMAT AREA WITH SECONDARY CONTAINMENT PER REQUIRED BMP'S PER REQUIRED BMP'S WM-1, WM-2, WM-4, WM-5, WM-6, WM-7, AND WM-10. SEE SHEET C-3.2.
- CONCRETE WASHOUT PER REQUIRED DETAIL WM-8. SEE SHEET C-3.2.
- INSTALL PROTECTION AT ALL STORM DRAIN INLETS WITHIN 50' OF PROJECT DISTURBANCE PER REQUIRED BMP'S SE-10. SEE SHEET C-3.2.
- STOCKPILE MANAGEMENT PER BMP WM-3. SEE SHEET C-3.2.
- STREET SWEEPING TO BE CONDUCTED TO REMOVE ANY SEDIMENT ON IMPERVIOUS SURFACES WITHIN 50' OF DISTURBANCE AND EQUIPMENT TRAVEL WAYS PER BMP SE-7, SHEET C-3.2. CONTRACTOR RESPONSIBLE FOR INSPECTING SITE DAILY AND REMOVING SEDIMENT AS REQUIRED.

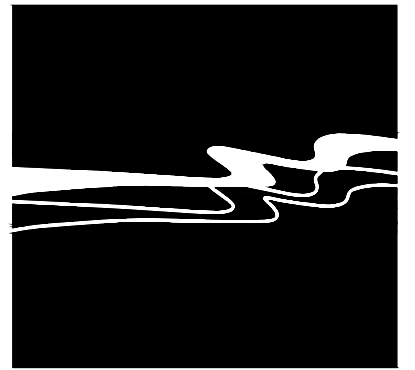
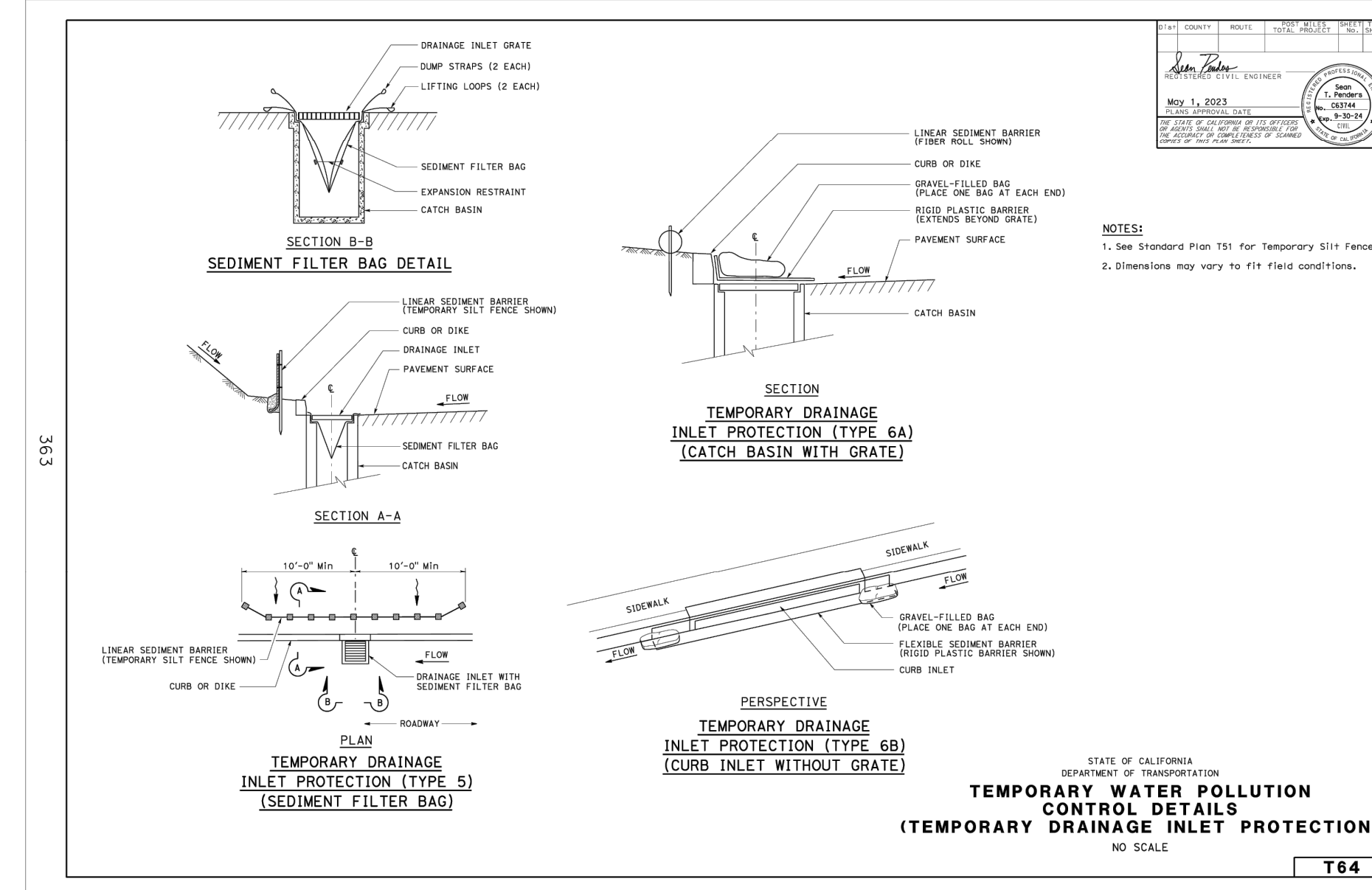
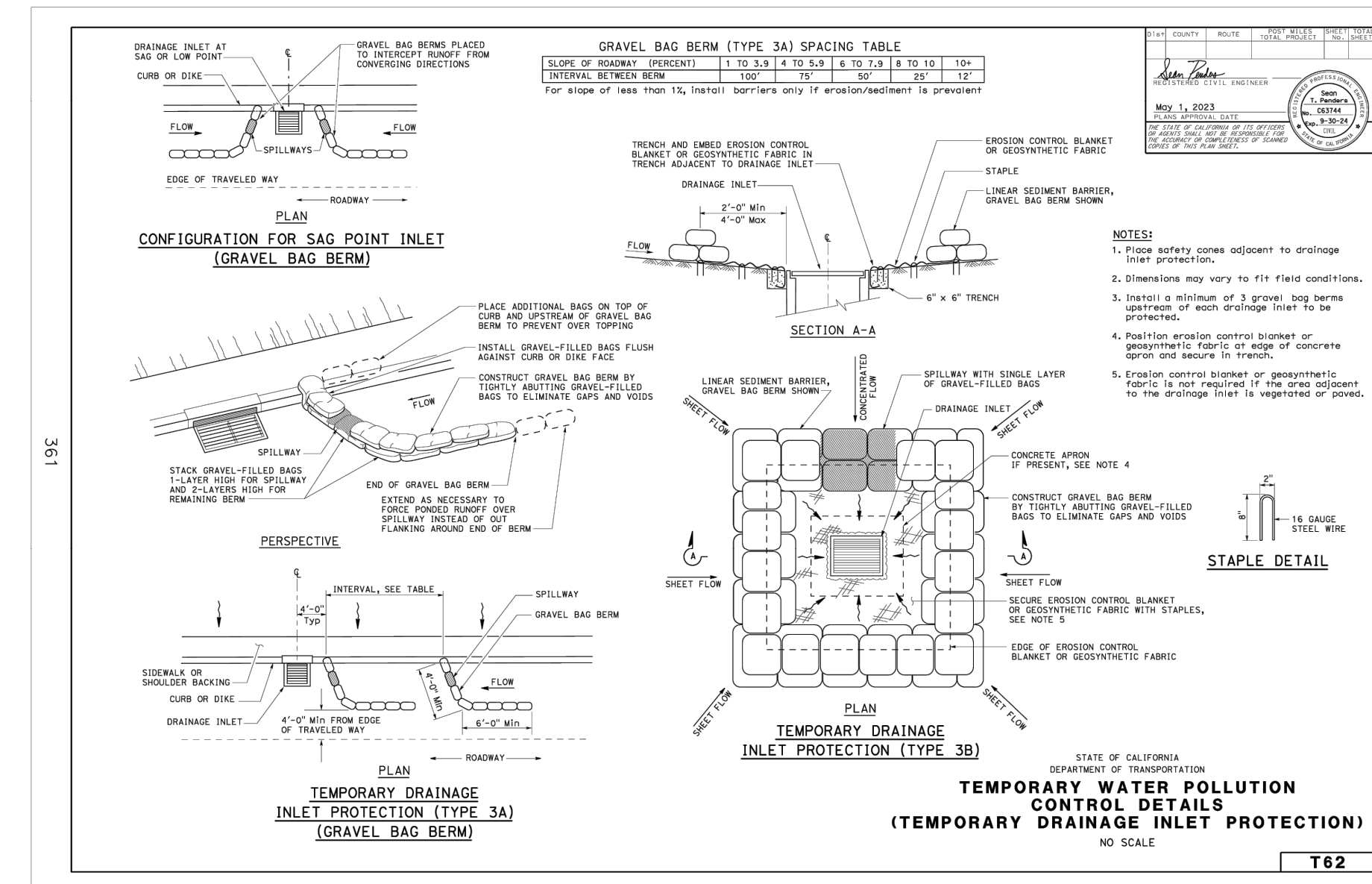
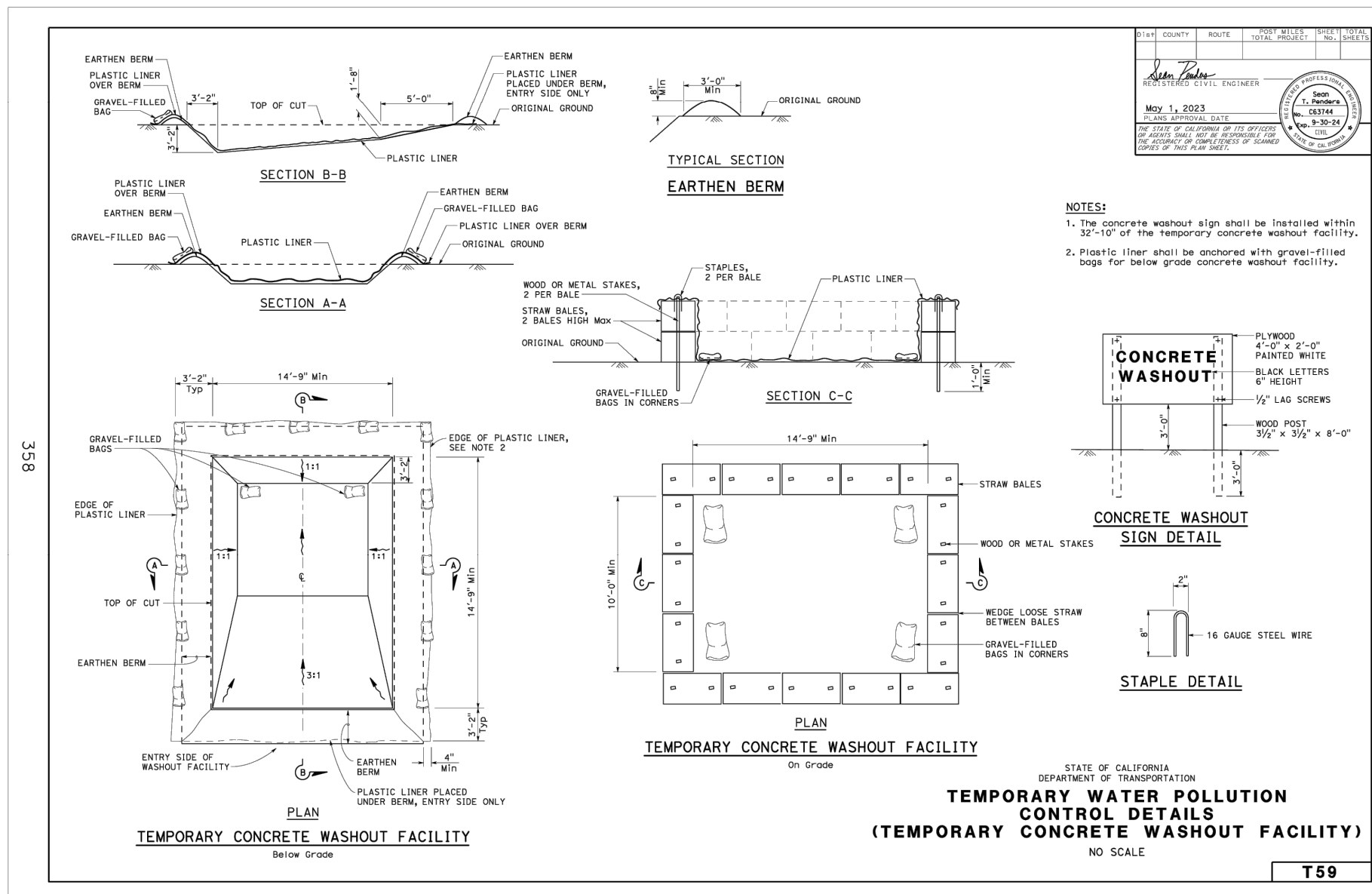
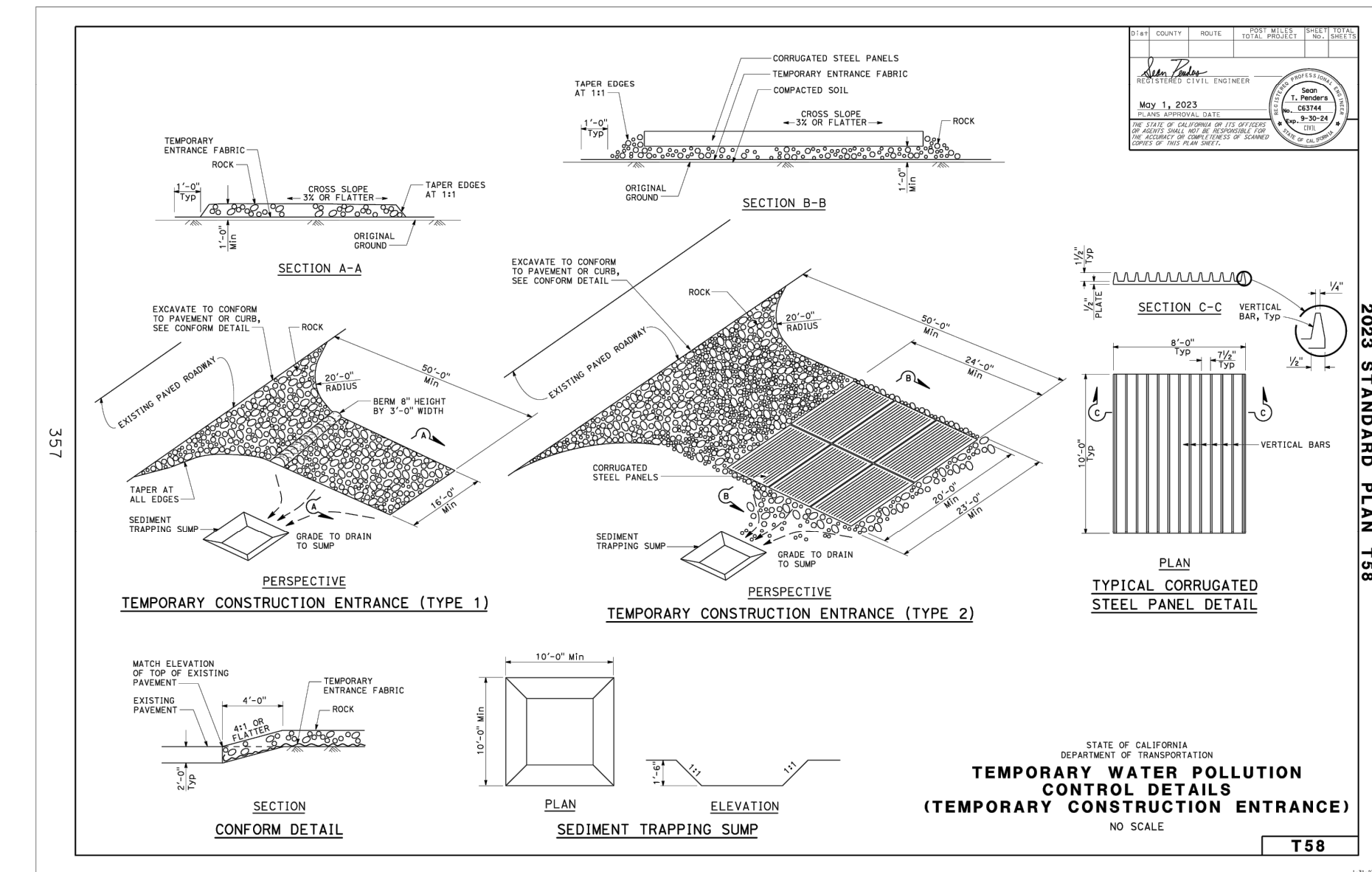
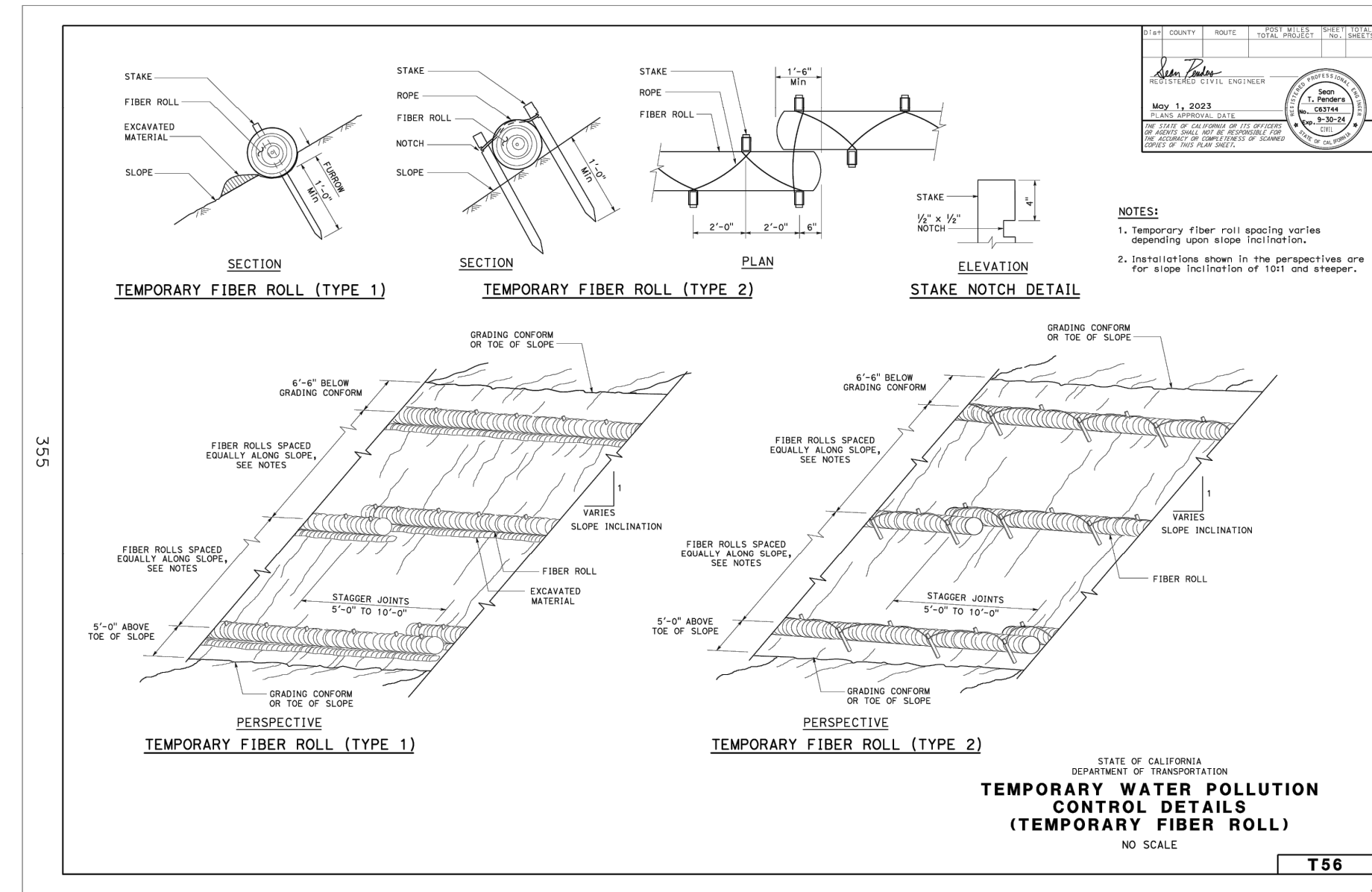
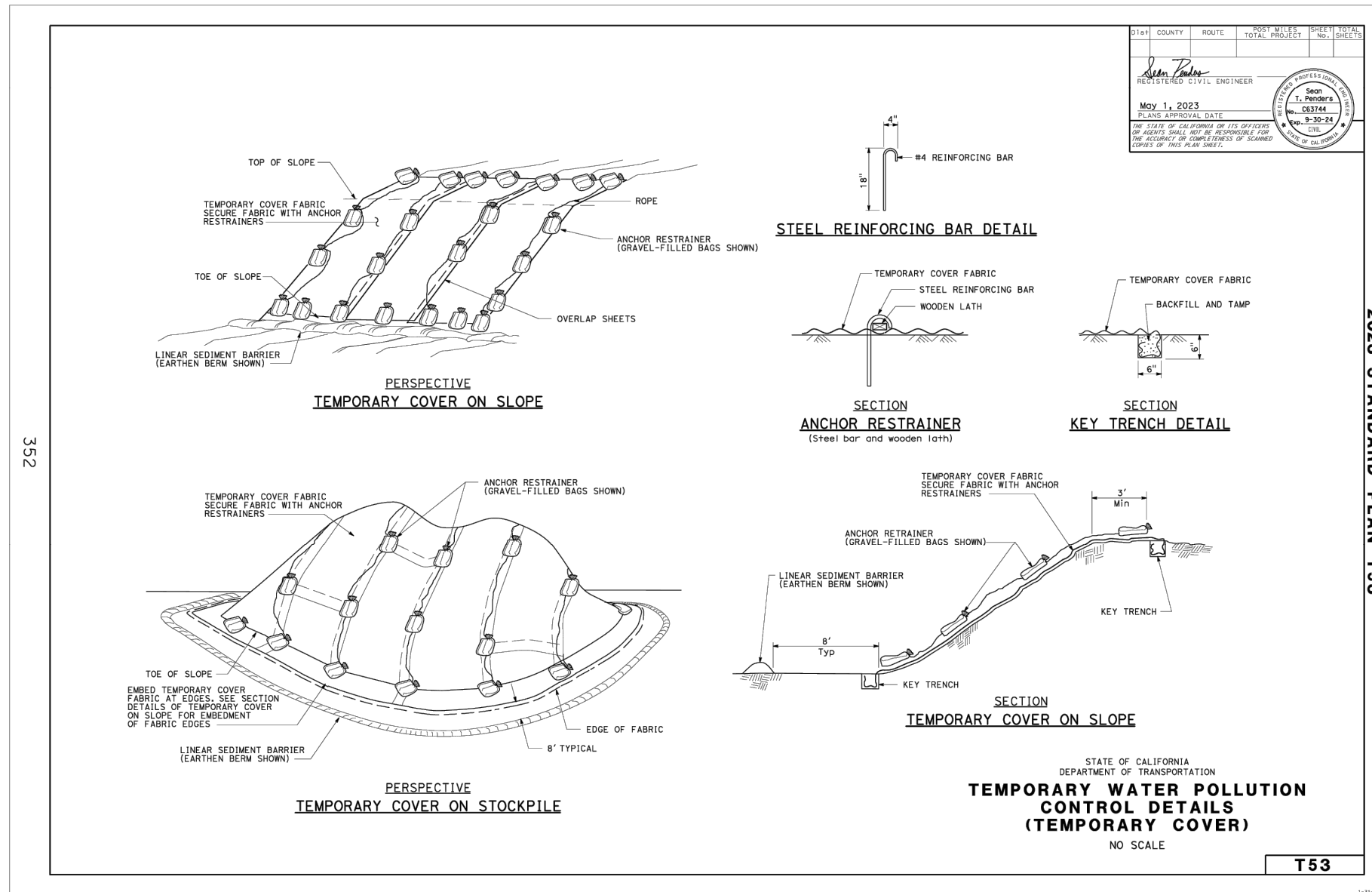
DUST CONTROL NOTES:

- THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FORMATION OF AN AIRBORNE DUST NUISANCE AND SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THEIR FAILURE TO DO SO. CONTRACTOR SHALL AT A MINIMUM PERFORM THE FOLLOWING MITIGATION MEASURES:
 - WATERING OF DISTURBED AREAS DURING CONSTRUCTION TO MINIMIZE AIRBORNE DUST.
 - STABILIZE DISTURBED AREA WITH EROSION CONTROL MEASURES DURING AND FOLLOWING CONSTRUCTION.
 - TEMPORARY CONSTRUCTION ENTRANCE / EXIT INSTALLED AT ALL UNPAVED ACCESS ROADS. ENTRANCE AND EXIT TO UNPAVED AREAS SHOULD BE LIMITED TO ONE PER SITE.

Rev.	Date	Description of Revisions	By

**MARINA COAST WATER DISTRICT
 1ST AVE GRAVITY SEWER MAIN REHABILITATION
 EROSION CONTROL PLAN**

JOB #: 1045-0008-00
 DESIGNERS: ZCM
 DRAWN BY: ZCM
 DATE: 02/13/25
**DRAWING NO.
 C-3.0**
 4 OF 6 SHEETS



WALLACE GROUP®

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612 CLARION COURT
SAN LUIS OBISPO, CA 93401
T 805 544-4011 F 805 544-4294
www.wallacegroup.us



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MARINA COAST WATER DISTRICT
1ST AVE GRAVITY SEWER MAIN REHABILITATION
EROSION CONTROL PLAN DETAILS

JOB #: 1045-0008-00
DESIGNERS: ZCM
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5 OF 6 SHEETS

Rev.	Date	Description of Revisions	By
A	12/23/2024	ADDENDUM 2 - WELL 5 IMPROVEMENTS	ZCM

Vehicle and Equipment Fueling NS-9



Definition and Purpose
Vehicle and equipment fueling procedures and practices are designed to minimize or eliminate the discharge of fuel spills and leaks into storm drain systems or to receiving waters.

Appropriate Applications
These procedures are applied on all construction sites where vehicle and equipment fueling takes place.

Limitations
This BMP may be limited or disallowed under regulatory agency permits, particularly near Environmentally Sensitive Areas (ESAs).
Onsite vehicle and equipment fueling should only be used where it's impractical to send vehicles and equipment off-site for fueling.

Standards and Specifications
When fueling must occur onsite, the contractor shall select and designate an area or areas to be used, subject to approval of the RE.
Dedicated fueling areas shall be protected from stormwater run-on and runoff, and shall be located at least 50 feet from downstream drainage facilities and watercourses. Fueling must be performed on level-grade areas. Protect fueling areas with berms or dikes to prevent run-on, runoff, and to contain spills.

Vehicle and Equipment Maintenance NS-10



Definition and Purpose
Procedures and practices to minimize or eliminate the discharge of pollutants to the storm drain systems or to receiving waters from vehicle and equipment maintenance activities.

Appropriate Applications
These procedures apply on all construction projects where an onsite uncovered yard area is necessary for storage and maintenance of heavy equipment and vehicles.

Limitations
This BMP may be limited or disallowed under regulatory agency permits, particularly near Environmentally Sensitive Areas (ESAs).
Onsite vehicle and equipment maintenance should only be used where it's impractical to send vehicles and equipment off-site for fueling.

Standards and Specifications
When maintenance must occur onsite, the contractor shall select and designate an area to be used, subject to approval of the RE and implement appropriate controls for the activities to be performed.
Dedicated maintenance areas shall be on level ground and protected from storm water run-on and runoff, and shall be located at least 50 feet from downstream drainage facilities and receiving waters.
Protect maintenance areas with berms or dikes to prevent run-on, runoff, and to contain spills.

Street Sweeping SC-7



Definition and Purpose
Practices to remove tracked sediment to prevent the sediment from entering a storm drain or receiving waters.

Appropriate Applications
These practices are implemented anywhere sediment is tracked from the project site onto public or private paved roads, typically at jobsite entrances and exits.

Limitations
Sweeping and vacuuming may not be effective when soil is wet or muddy.

Standards and Specifications
General Requirements
When mechanical methods, such as vacuuming, kick brooms or sweeper attachments may not be used.
At least one street sweeper in good working order must be at the job site at all times when street sweeping work is required.
Use one of the following types of street sweepers:

Temporary Drainage Inlet Protection SC-10



Definition and Purpose
Temporary drainage inlet protection consists of devices used at storm drain inlets that detain and/or filter sediment-laden runoff prior to discharge into storm drainage systems. This is achieved by allowing sediment to settle and/or filtering sediment upstream of a linear sediment barrier.

Appropriate Applications
Where ponding will not encroach into highway traffic.
Where sediment laden surface runoff may enter an inlet.
Where disturbed drainage areas have not yet been permanently stabilized.
Where the drainage area is 1 ac or less.
Used year-round.

Limitations
Requires an adequate area for water to pond without encroaching upon traveled way and should not present an obstacle to oncoming traffic.
May require other methods of temporary protection to prevent sediment-laden stormwater and non-stormwater discharges from entering the storm drain system.
Sediment removal may be difficult in high flow conditions or if runoff is heavily sediment laden. If high flow conditions are expected, use other on-site sediment trapping techniques, such as SC-4 "Check Dams," in conjunction with temporary drainage inlet protection.

Temporary Construction Entrance/Exit TC-1



Definition and Purpose
A temporary construction entrance/exit is defined by a point of entrance/exit to a construction site that is stabilized to reduce the tracking of mud and dirt onto public roads by construction vehicles.

Appropriate Applications
Where dirt or mud can be tracked onto public roads.
Adjacent to water bodies.
When your soils are eroded.
Where dust is a problem during dry weather conditions.

Limitations
Site conditions will dictate design and need.
Limit the points of entrance/exit to the construction site.
Limit speed of vehicles to control dust.

Standards and Specifications
General Requirements
Temporary construction entrance/exit must comply with Standard Specification Section 13-7.03 Temporary Construction Roadways and Entrances.

Material Delivery and Storage WM-1



Definition and Purpose
Procedures and practices for the proper handling and storage of materials in a manner that minimizes or eliminates the discharge of these materials to the storm drain system or to receiving waters.

Appropriate Applications
These procedures are implemented at all construction sites with delivery and storage of the following:

- Hazardous chemicals such as:
 - Acids
 - Gases
 - Adhesives
 - Paints
 - Solvents
 - Curing compounds
- Soil stabilizers and binders
- Fertilizers
- Deleters
- Plaster
- Petroleum products such as fuel, oil, and grease
- Asphalt and concrete components
- Pesticides and herbicides
- Other materials that may be detrimental if released to the environment

Material Use WM-2



Definition and Purpose
These are procedures and practices for use of construction materials in a manner that minimizes or eliminates the discharge of these materials to the storm drain system or to receiving waters.

Appropriate Applications
This BMP applies to all construction projects. These procedures apply when the following materials are used or prepared on site:

- Hazardous chemicals such as:
 - Acids
 - Lime
 - Gases
 - Adhesives
 - Paints
 - Solvents
 - Curing compounds
- Soil stabilizers and binders
- Fertilizers
- Deleters
- Plaster
- Petroleum products such as fuel, oil, and grease
- Asphalt and concrete components
- Pesticides and herbicides
- Other materials that may be detrimental if released to the environment

Stockpile Management WM-3



Definition and Purpose
Stockpile management procedures and practices are designed to reduce or eliminate air and storm water pollution from stockpiles of soil, and paving materials such as portland cement concrete (PCC) rubble, asphalt concrete (AC), asphalt concrete rubble, aggregate base, aggregate subbase or pre-mixed aggregate, asphalt binder (so called "cold mix" asphalt) and pressure treated wood.

Appropriate Applications
This BMP applies to all construction projects. Stockpile management procedures and practices are implemented in all projects that stockpile soil and other materials.

Limitations
Use of plastic cover might be restricted depending on the location of the site and regulatory permits.

Standards and Specifications
Stockpiles must comply with Standard Specification 13-4.03C (1) Stockpile Management.
Protection of stockpiles is a year-round requirement.
Locate stockpiles a minimum of 50 ft. away from concentrated flows of storm water, drainage courses, and inlets.
Utilize run-on and run-off BMPs to ensure stockpile materials are protected and do not have the potential to discharge material.
Implement wind erosion control practices as appropriate on all stockpiled material. For specific information see WE-1, "Wind Erosion Control."

Spill Prevention and Control WM-4



Definition and Purpose
These procedures and practices are implemented to prevent and control spills in a manner that minimizes or prevents the discharge of spilled material to the drainage system or watercourses.

Appropriate Applications
This best management practice (BMP) applies to all construction projects. Spill control procedures are implemented anytime chemicals and/or hazardous substances are stored. Substances may include, but are not limited to:

- Soil stabilizers/binders.
- Dust Palliatives.
- Herbicides.
- Growth inhibitors.
- Fertilizers.
- Defoliant/defolting chemicals.
- Fuels.
- Lubricants.
- Other petroleum distillates.

To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110, 117, and 302, and sanitary and septic wastes shall be contained and cleaned up immediately.

Solid Waste Management WM-5



Definition and Purpose
Solid waste management procedures and practices are designed to minimize or eliminate the discharge of pollutants to the drainage system or to water bodies as a result of the creation, stockpiling, or removal of construction site wastes.

Appropriate Applications
Solid waste management procedures and practices are implemented on all construction projects that generate solid wastes.

Solid wastes include but are not limited to:

- Construction wastes including brick, mortar, timber, steel and metal scraps, sand/dust, pipe and electrical castings, non-hazardous equipment parts, styrofoam and other materials used to transport and package construction materials.
- Highway painting wastes, including negative material, plant containers, and packaging materials.
- Litter, including food containers, beverage cans, coffee cups, paper bags, plastic wrappers, and smoking materials, including litter generated by the public.

Hazardous Waste Management WM-6



Definition and Purpose
These are procedures and practices to minimize or eliminate the discharge of pollutants from construction site hazardous waste to the storm drain systems or to watercourses.

Appropriate Applications
This best management practice (BMP) applies to all construction projects.
Hazardous waste management practices are implemented on construction projects that generate waste from the use of:

- Petroleum Products
- Asphalt Products
- Concrete Curing Compounds
- Pesticides
- Palliatives
- Acids
- Paints
- Stains
- Solvents
- Septic Wastes
- Wood Preservatives
- Roofing Tar, or
- Any materials deemed a hazardous waste in California, Title 22 Division 4.5, or listed in 40 CFR Parts 110, 117, 261, or 302.

Contaminated Soil Management WM-7



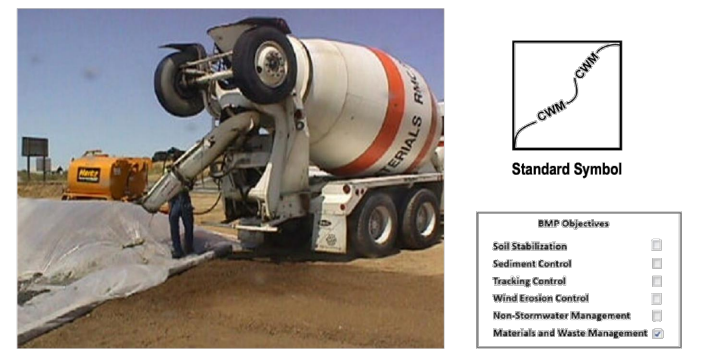
Definition and Purpose
These are procedures and practices to minimize or eliminate the discharges of pollutants to the drainage system or to receiving waters from contaminated soil.

Appropriate Applications
Contaminated soils are often identified during project planning and development with known locations identified in the plans and specifications. The contractor shall review applicable reports and examine applicable call-outs in the plans and specifications.
It may also apply to highway widening projects in older areas where median and shoulder soils may have been contaminated by aerially deposited lead (ADL).

Limitations
The procedures and practices presented in this best management practice (BMP) are general. The contractor shall identify appropriate practices and procedures consistent with the plans and specifications for the specific contaminants known to exist or discovered on site.

Standards and Specifications
Identifying Contaminated Areas
Contaminated soils are often identified during project planning and development with known locations identified in the plans and specifications. The contractor shall review applicable reports and examine applicable call-outs in the plans and specifications.
The contractor may discover contaminated soils not identified in the plans and specifications by observing: Spills and leaks, discoloration, odors or abandoned underground tanks or pipes.

Concrete Waste Management WM-8



Definition and Purpose
These are procedures and practices that are designed to minimize or eliminate the discharge of concrete waste materials to the storm drain systems or watercourses.

Appropriate Applications
Concrete waste management procedures and practices are implemented on construction projects where concrete is used as a construction material or where concrete dust and debris result from demolition activities.
Where slurries containing portland cement concrete (PCC) or asphalt concrete (AC) are generated, such as from sawcutting, coring, grinding, grooving, and hydro-concrete demolition.
Where concrete trucks and other concrete-coated equipment are washed on site, when approved by the Resident Engineer (RE). See also NS-8, "Vehicle and Equipment Cleaning."
Where mortar-mixing stations exist.

Limitations
None identified.

Standards and Specifications
Education
Educate employees, subcontractors, and suppliers on sanitary and septic waste storage and disposal procedures.
Educate employees, subcontractors, and suppliers in identification of sanitary/septic waste.
Inspect employees, subcontractors, and suppliers in identification of sanitary/septic waste.
Hold regular meetings to discuss and reinforce disposal procedures (incorporate into regular safety meetings and trainings).
Establish a continuing education program to indoctrinate new employees.

Sanitary and Septic Waste Management WM-9



Definition and Purpose
Procedures and practices to minimize or eliminate the discharge of construction site sanitary and septic waste materials to the storm drain system or to receiving waters.

Appropriate Applications
Sanitary/septic waste management procedures are implemented on all construction sites that use temporary or portable sanitary and septic waste systems.

Limitations
None identified.

Standards and Specifications
Education
Educate employees, subcontractors, and suppliers on sanitary and septic waste storage and disposal procedures.
Educate employees, subcontractors, and suppliers in identification of sanitary/septic waste.
Inspect employees, subcontractors, and suppliers in identification of sanitary/septic waste.
Hold regular meetings to discuss and reinforce disposal procedures (incorporate into regular safety meetings and trainings).
Establish a continuing education program to indoctrinate new employees.

Liquid Waste Management WM-10



Definition and Purpose
Procedures and practices to prevent discharge of pollutants to the storm drain system or to receiving waters as a result of the creation, collection, and disposal of non-hazardous liquid wastes.

Appropriate Applications
Liquid waste management is implemented on construction projects that generate any of the following non-hazardous hydrocarbons, hydrocarbons, or wastes:

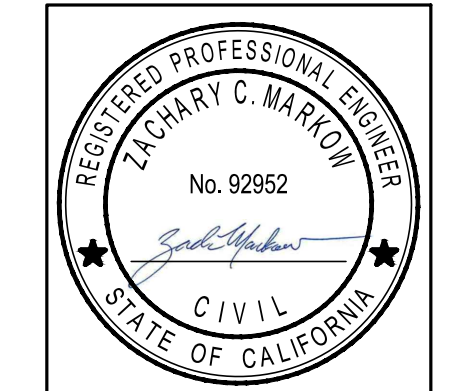
- Drilling slurries and drilling fluids.
- Grass-free and oil-free wastewater and rinse water.
- Floppings.
- Other non-storm water liquid discharges not permitted by separate permits.

Limitations
Disposal of some liquid wastes may be subject to specific laws and regulations, or to requirements of other permits issued for the construction project (e.g., NPDES permits, Army Corps permits, Coastal Commission permits, etc.).
Does not apply to dewatering operations (see NS-2, "Dewatering Operations"), solid waste management (see WM-5, "Solid Waste Management"), hazardous waste (see WM-6, "Hazardous Waste Management"), or concrete slurry residue (see WM-8, "Concrete Waste Management").
Does not apply to non-stormwater discharges permitted by any NPDES permit held by the permittee Caltrans District, unless the discharge is determined by Caltrans to be a source of pollutants. Typical permitted non-stormwater discharges can include: water line flushing, landscape irrigation, diverted stream flows, rising ground waters, uncontaminated pumped ground water, discharges from portable water sources, foundation

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MARINA COAST WATER DISTRICT
1ST AVE GRAVITY SEWER MAIN REHABILITATION
EROSION CONTROL PLAN BMPs

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DESIGNERS: ZCM
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6 OF 6 SHEETS