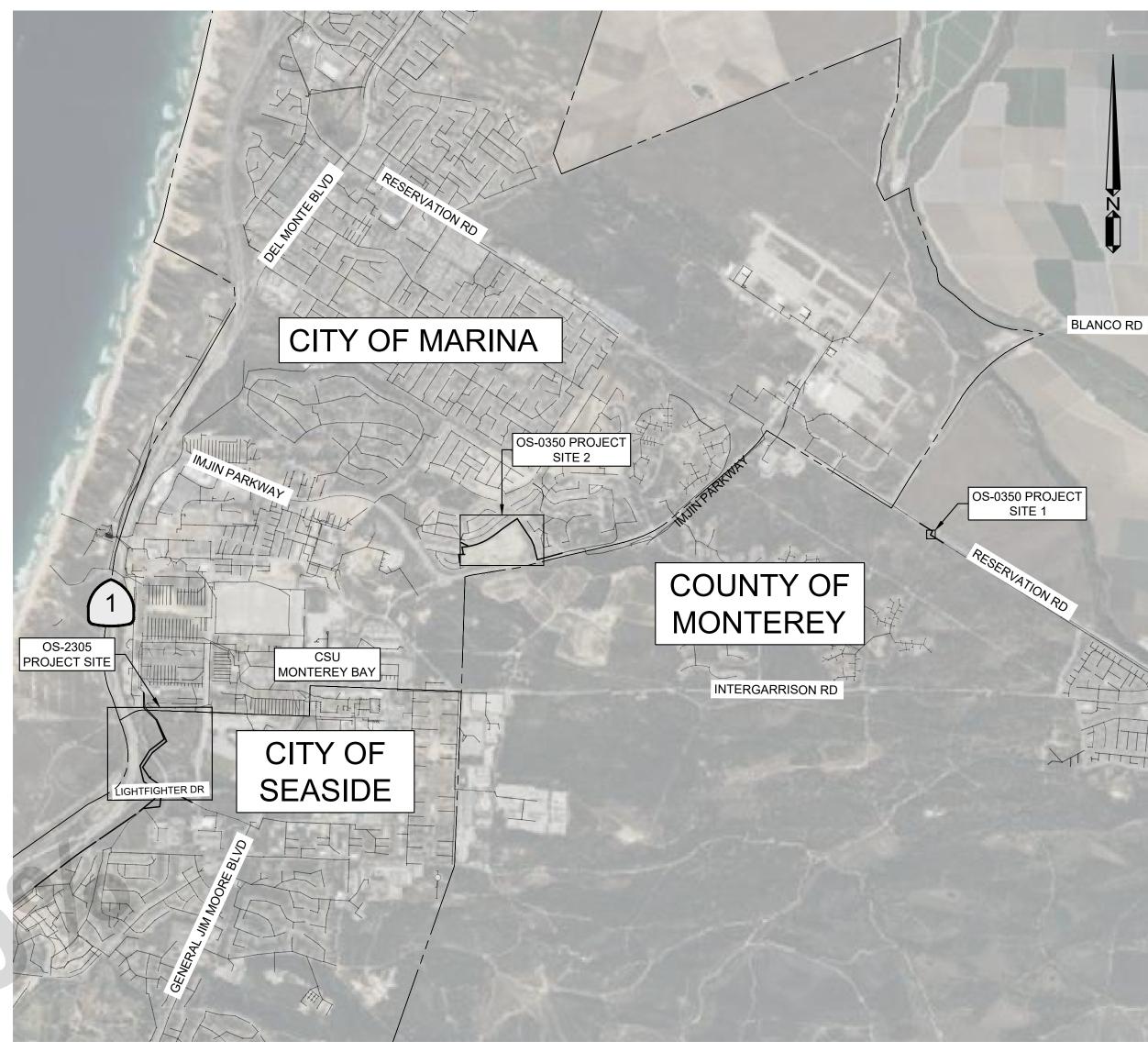
NATIONAL GEODETIC VERTICAL DATUM

GENERAL NOTES

- 1. 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), THE CITY OF MARINA, THE CITY OF SEASIDE , AND THE COUNTY OF MONTEREY (COUNTY) STANDARD DRAWINGS AND SPECIFICATIONS, THE CONTRACT DOCUMENTS, AND WORK SHALL BE SUBJECT TO THE APPROVAL OF MCWD, THE COUNTY, AND THE CITIES OF
- 2. 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.
- 4. 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, THE CITY OF MARINA, THE CITY OF SEASIDE, AND THE COUNTY (COLLECTIVELY REFERRED TO AS THE AGENCIES), 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- 5. 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.
- 6. THESE DRAWINGS REPRESENT THE FINISHED CONDITION AND UNLESS OTHERWISE INDICATED, THEY DO NOT SHOW THE METHOD OF CONSTRUCTION.
- 7. 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.
- 8. 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.
- 9. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS AND STANDARDS SHALL BE OBSERVED AT THE JOB SITE AT ALL TIMES.
- 10. 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.
- 11. NO TOPOGRAPHIC INFORMATION HAS BEEN DELINEATED ON THESE PLANS.
- 12. NO CONSTRUCTION SHALL BE STARTED WITHOUT PLANS APPROVED BY THE AGENCIES. THE AGENCIES SHALL BE NOTIFIED AT LEAST 3 WORKING DAYS PRIOR TO START OF CONSTRUCTION. ANY CONSTRUCTION DONE WITHOUT APPROVED PLANS OR PRIOR NOTIFICATION TO THE AGENCIES WILL BE REJECTED AND WILL BE AT THE CONTRACTOR'S RISK.
- 13. 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.
- 14. 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.
- 15. 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.
- 16. 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.
- 17. 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.
- 18. ALL PERTINENT UTILITY COMPANIES SHALL BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
- 19. ENCROACHMENT PERMITS ARE REQUIRED FROM THE AGENCY HAVING JURISDICTION FOR ALL WORK DONE WITHIN ANY ROAD RIGHT-OF-WAY (COUNTY OF MONTEREY, CITY OF MARINA, AND/OR CITY OF SEASIDE).
- 20. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE HOURS OF 8:00AM TO 5:00PM MONDAY THROUGH FRIDAY UNLESS APPROVED BY MCWD.

MARINA COAST WATER DISTRICT

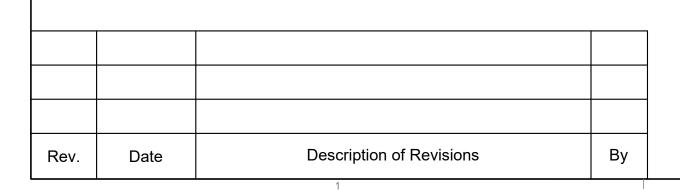
SANITARY SEWER MANHOLE REHABILITATION CIP OS-0350 / OS-2305 MARINA, CA 93933 MONTEREY COUNTY



VICINITY MAP NTS

APPROVED BY:

JACK GAO, PMP SENIOR PROJECT MANAGER MARINA COAST WATER DISTRICT





Sheet List Table		
Sheet Number	Sheet Title	
C-1.0	COVER AND NOTES	
C-1.1	CIP OS-0350 SITE PLAN	
C-1.2	CIP OS-2305 SITE PLAN	
C-2.0	DETAILS	
C-2.1	MCWD STANDARD DETAILS	
C-2.2	AGENCY STANDARD DETAILS	
C-3.0	EROSION CONTROL PLAN	
C-3.1	EROSION CONTROL PLAN DETAILS	
C-3.2	EROSION CONTROL PLAN BMPs	

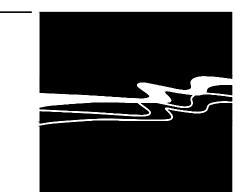
LEGEND

EXISTING	PROPOSED	DESCRIPTION
(100.0 FS)	101.50 FS	SPOT ELEVATIONS
0	\bigcirc	SEWER MANHOLE
co O	© ●	SEWER CLEANOUT
E	E	SERVICE LATERAL (W=WATER, G=GAS, U=UTILITIES
	_	SEWER LATERAL
Δ	Δ	SURVEY MONUMENT
⊕ #PT		BENCH MARK
(2.00) %	2.00%	SLOPE PERCENTAGE
● PP		POWER POLE
	// // // // // // //	ABANDON UTILITY
, T ,		EDGE OF PAVEMENT
— — O/H — — —		OVERHEAD UTILITY LINE
WL	WL	WATER LINE
	SSFM	SEWER FORCE MAIN
ss	ss	GRAVITY SEWER LINE
	SD	STORM DRAIN
——————————————————————————————————————	———— GAS —————	UNDERGROUND GAS LINE
UTL	UTL	UNDERGROUND UTILITY LINE LOCATION
ELE	ELE	UNDERGROUND ELECTRICAL LINE
CTV	CTV	UNDERGROUND CABLE TELEVISION LINE
TEL	TEL	UNDERGROUND TELEPHONE LINE
		RIGHT OF WAY
		EASEMENT
		CENTERLINE
x x	x x	BARBED WIRE FENCE
o	o	CHAIN LINK FENCE
		PRIVATE FENCE

ABBREVIATIONS

ASPHALTIC CONCRETE

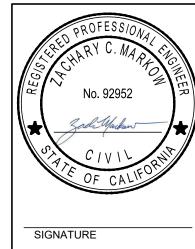
AC	ASPHALTIC CONCRETE	NGVD	NATIONAL GEODETIC VERTICAL DATUM
ACP	ASBESTOS CEMENT PIPE	NIC	NOT IN CONTRACT
AISC	AMERICAN INSTITUTE OF STEEL	NO	NORMALLY OPEN
	CONSTRUCTION	NTS	NOT TO SCALE
AVG	AVERAGE	OD	OUTSIDE DIAMETER
BF	BLIND FLANGE	PCC	PORTLAND CEMENT CONCRETE
BLDG	BUILDING		
BM	BENCH MARK	PH	POTHOLE (UTILITY WAS POTHOLED)
С	CURB	POC	POINT OF CONNECTION
CL	CENTERLINE	PP	POWER POLE
CL	CLASS	PSF	POUND PER SQURE FOOT
CMP	CORRUGATED METAL PIPE	PSI	POUND PER SQUARE INCH
CO	CLEANOUT	PVC	POLYVINYL CHLORIDE
CONC	CONCRETE	R	RADIUS
CONST	CONSTRUCTION	RC	REINFORCED CONCRETE
CONT	CONTINUOUS		
CP	CATHODIC PROTECTION	RCP	REINFORCED CONCRETE PIPE
CPLG	COUPLING	REQD	REQUIRED
CY	CUBIC YARD	RT	RIGHT
DET	DETAIL	R/W	RIGHT OF WAY
DI	DUCTILE IRON (PIPE)	SS	SANITARY SEWER
DIA	DIAMETER	SCH	SCHEDULE
DIM	DIMENSION	SD	STORM DRAIN
D/W			
	DRIVEWAY	SHT	SHEET
EA	EACH	SPEC	SPECIFICATIONS
ELE	ELEVATION	SSFM	SANITARY SEWER FORCE MAIN
EP	EDGE OF PAVEMENT	STA	STATION
EX	EXISTING	STD	STANDARD
EG	EXISTING GROUND	STL	STEEL
FCA	FLANGE COUPLING ADAPTOR	SV	SOLENOID VALVE
FF	FINISH FLOOR	SW	SIDEWALK
FG	FINISH GRADE		
FL	FLOW LINE	<u>T</u>	TELEPHONE
FLG	FLANGE	TB	THRUST BLOCK
FS	FINISH SURFACE	TB	TOP OF BANK
FT	FEET	TC	TOP OF CURB
G	GAS	TF	TOP OF FOOTING
ĞA	GAGE	TG	TOP OF GRATE
GAL	GALLON		
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	VC	VERTICAL CURVE
ID	INSIDE DIAMETER		
		VIC	VICTAULIC COUPLING
IN IN /	INCHES	VERT	VERTICAL
INV	INVERT	W	WATER
L	LENGTH	WF	WIDE FLANGE
LAT	LATERAL	WL	WATER LINE
LF	LINEAR FEET	WM	WATER METER
LP	LIGHT POLE	WS	WATER SERVICE
LT	LEFT	WV	WATER VALVE
M	METER		
		WWM	WELDED WIRE MESH
MAX	MAXIMUM	WW	WET WELL
MIN	MINIMUM		
MISC	MISCELLANEOUS	*NOTE: TH	IS IS A STANDARD SET OF
MH	MANHOLE	ABBREVIA	TIONS.
N/A	NOT APPLICABLE	NOT ALL A	BBREVIATIONS SHOWN WILL APPLY TO
NC	NORMALLY CLOSED	THIS WOR	K.



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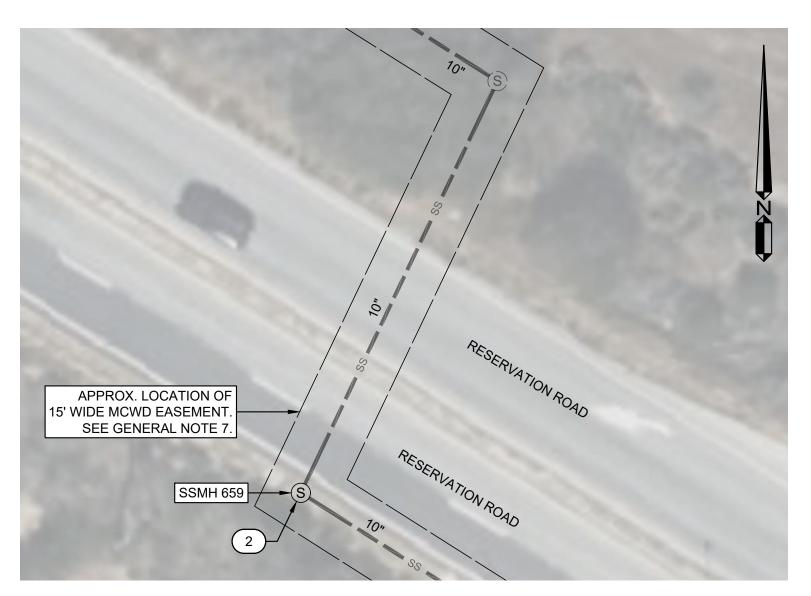
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> DISTRIC REH, MARINA

DESIGNERS: ZCM DRAWN BY: ZCM DATE: 02/13/25

DRAWING NO.



MANHOLE REHABILITATION			
MANHOLE ID	LEGACY ID	DIA (IN)	DEPTH (FT)
2457	MHI1.12	48	ASSUME 10.0 FT. SEE GENERAL NOTE 4.
133	MHI1.13	48	ASSUME 10.0 FT. SEE GENERAL NOTE 4.
134	MHI1.14	48	ASSUME 10.0 FT. SEE GENERAL NOTE 4.
2367	MHI1.15	48	ASSUME 10.0 FT. SEE GENERAL NOTE 4.
135	MHI1.16	48	ASSUME 10.0 FT. SEE GENERAL NOTE 4.
136	MHI1.17	48	ASSUME 10.0 FT. SEE GENERAL NOTE 4.
2459	MHI1.18	48	10.7
652	MHI1.19	48	12.0
659	P24	48	ASSUME 10.0 FT. SEE GENERAL NOTE 4

	REFERENCE NOTES:	(XX
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- PROVIDE NEW POLYMER CONCRETE MANHOLE REHABILITATION INSERTS PER SPECIFICATION SECTION 33 01 30.84. REFER TO DETAILS 1, 2, AND 3, SHEET C-2.0, FOR DEMOLITION AND INSTALLATION REQUIREMENTS.
- LINE EX. MANHOLE WITH EPOXY COATING PER SPECIFICATION SECTION 09 90 00. REMOVE AND REPLACE EX. MANHOLE FRAME, COVER, AND CONCRETE COLLAR PER SPECIFICATION SECTION 33 31 30.81 AND MCWD STANDARD DETAILS S-1 AND S-3. REFER TO SHEET C-2.1. PAVEMENT RESTORATION, IF NECESSARY, SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF MARINA STANDARD PLAN ST-3. REFER TO SHEET C-2.2.
- EX. TREE, PROTECT-IN-PLACE. IF CONTRACTOR DEEMS TREE-TRIMMING IS NECESSARY, COORDINATE WITH CITY OF MARINA FOR TREE-TRIMMING REQUIREMENTS. REFER TO SPECIFICATION SECTION 01 35 00.
- PROTECT-IN-PLACE EX. CURB, GUTTER, AND SIDEWALK. CONTRACTOR SHALL REPLACE
 ANY DAMAGED SECTIONS IN KIND PER CITY OF MARINA STANDARDS. SEE SHEET C-2.2.
 CONCRETE REPAIR SHALL BE MONOLITHIC, FROM EX. JOINT TO EX. JOINT.

GENERAL NOTES:

- 1. WORK SHOWN IN OS-0250 PROJECT SITE 1 OCCURS WITHIN THE COUNTY OF MONTEREY. WORK SHON IN OS-0350 PROJECT SITE 2 OCCURS WITHIN THE CITY OF MARINA.
- 2. AERIAL IMAGERY IS SOURCED FROM ESRI LANDSAT IMAGING, AND IS PROVIDED FOR REFERENCE ONLY.

FOR REDUCED PLANS

ORIGINAL SCALE IS IN INCHES

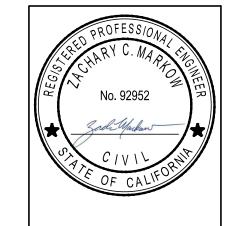
- 3. SEWER INFRASTRUCTURE LOCATIONS AND SIZES ARE BASED ON AVAILABLE GIS DATA PROVIDED BY MARINA COAST WATER DISTRICT. CONTRACTOR TO VERIFY ALL DIMENSIONS, DEPTHS, AND MEASUREMENTS PRIOR TO SUBMITTAL AND ORDERING.
- 4. EX. SSMH COVER WAS STUCK DURING FIELD INVESTIGATION. DEPTH COULD NOT BE CONFIRMED. ASSUMED DEPTH BASED ON AVAILABLE GIS DATA PROVIDED BY MARINA COAST WATER DISTRICT. CONTRACTOR TO REMOVE EX. COVER AND FRAME AND VERIFY DEPTH PRIOR TO SUBMITTAL AND ORDERING. CONTRACTOR TO INSTALL TRENCH PLATE OVER OPEN MANHOLE WHILE EXPLORATORY WORK IS PERFORMED. PLACE COLD-MIX ASPHALT AROUND LIP OF TRENCH PLATE.
- 5. WORK OCCURS WITHIN THE RIGHTS-OF-WAY OF THE COUNTY OF MONTEREY (PROJECT SITE 1) AND THE CITY OF MARINA (PROJECT SITE 2), RESPECTIVELY. CONTRACTOR SHALL PROCURE THE NECESSARY ENCROACHMENT PERMITS FROM THE AGENCY HAVING JURISDICTION, PER SPECIFICATION SECTION 01 11 00 AND RELATED SECTIONS.
- 6. 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:
- 6.1. PROJECT SITE 1: 500 GPM
- 6.2. PROJECT SITE 2: 1,100 GPM
- 7. 15' WIDE MCWD EASEMENT, CENTERED ON CL OF EX. SANITARY SEWER MAINS. ALL EASEMENTS ARE SHOWN AS APPROXIMATE.



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SIGNATURE

DATE SIGNED

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MARINA COAST WATER DISTRICT
NITARY SEWER MANHOLE REHABILITAT

DESIGNERS: ZCM

DRAWN BY: ZCM

DATE: 02/13/25

DRAWING NO.

C-1.1
2 OF 9 SHEETS

CIP OS-0350 PROJECT SITE 1 - IMPROVEMENT PLAN

SCALE: 1" = 20'



CIP OS-0350 PROJECT SITE 2 - IMPROVEMENT PLAN

SCALE: 1" = 80'

FOR REDUCED PLANS 0 1 2

FILE NAME: 1045-0006-SSWR-CIP OS-2305.DWG Plot Date: 2/13/2025 2

ORIGINAL SCALE IS IN INCHES 5



REFERENCE NOTES: XX

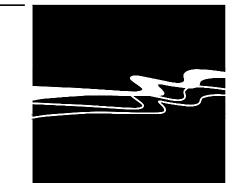
LINE EX. MANHOLE WITH EPOXY COATING PER SPECIFICATION SECTION 09 90 00. REMOVE AND REPLACE EX. MANHOLE RING AND COVER PER SPECIFICATION SECTION 33 31 30.81. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO SUBMITTAL AND ORDERING. REFER TO SPECIFICATION SECTION 33 31 20 FOR SEWAGE BYPASSING REQUIREMENTS.

MANHOLE REHABILITATION			
MANHOLE ID	LEGACY ID	DIA (IN)	DEPTH (FT)
1361	G446	48	ASSUME 9.0 FT. SEE NOTE 3.
1362	D457	48	ASSUME 9.0 FT. SEE NOTE 3.
1363	G445	48	ASSUME 9.0 FT. SEE NOTE 3.
1364	D458	48	ASSUME 9.0 FT. SEE NOTE 3.
1365	G444	48	ASSUME 9.0 FT. SEE NOTE 3.
1366	D459	48	ASSUME 9.0 FT. SEE NOTE 3.
2203	D460	48	ASSUME 9.0 FT. SEE NOTE 3.
430	G443	48	ASSUME 9.0 FT. SEE NOTE 3.
708	G442	48	ASSUME 9.0 FT. SEE NOTE 3.
709	D461	48	ASSUME 9.0 FT. SEE NOTE 3.
705	D462	48	ASSUME 9.0 FT. SEE NOTE 3.
1908	G440	48	ASSUME 9.0 FT. SEE NOTE 3.

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 PROVIDED BY MARINA COAST WATER DISTRICT. CONTRACTOR TO VERIFY ALL DIMENSIONS AND MEASUREMENTS PRIOR TO SUBMITTAL AND ORDERING.
- 3. ASSUMED DEPTH BASED ON AVAILABLE GIS DATA PROVIDED BY MARINA COAST WATER DISTRICT. CONTRACTOR TO VERIFY DEPTH PRIOR TO SUBMITTAL AND ORDERING PER REFERENCE NOTE 1.
- 4. WORK OCCURS WITHIN THE CITY LIMITS OF CITY OF SEASIDE. CONTRACTOR TO PROCURE ENCROACHMENT PERMIT FROM CITY OF SEASIDE PER SPECIFICATION SECTION 01 11 00 AND RELATED SECTIONS.
- 5. PROTECT-IN-PLACE ALL EX. CURB, SIDEWALK, AND GUTTERS. REPLACE ANY DAMAGED PORTIONS IN KIND PER CITY OF
- SEASIDE STANDARDS. REFER TO SHEET C-2.2.

 6 ANTICIPATED SEWER BYPASS FLOWS PROVIDED BELOW FLOWS BASED ON PEAK DRY WEATHER FLOW CRITERIA OF THE
- 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:
- 6.1. FOR 12" LINE: 800 GPM
- 6.2. FOR 15" AND 18" LINE: 1,800 GPM
- 7. 15' WIDE MCWD EASEMENT, CENTERED ON CL OF EX. SANITARY SEWER MAINS. ALL EASEMENTS ARE SHOWN AS



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DATE SIGNED

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MARINA COAST WATER DISTRICT
SANITARY SEWER MANHOLE REHABILITATION
CIP OS-2305 SITE PLAN

JOB #: 1045-0006-00

DESIGNERS: ZCM

DRAWN BY: ZCM

DATE: 02/13/25

DRAWING NO.

C-1.2 3 OF 9 SHEETS

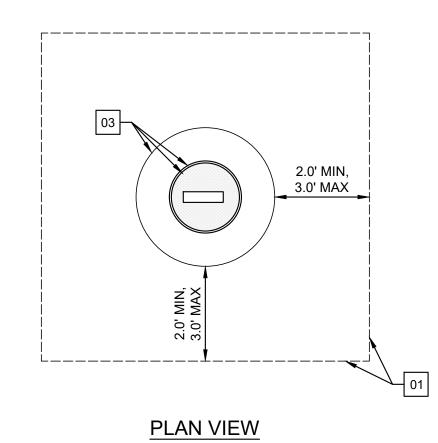
GRAPHIC SCALE

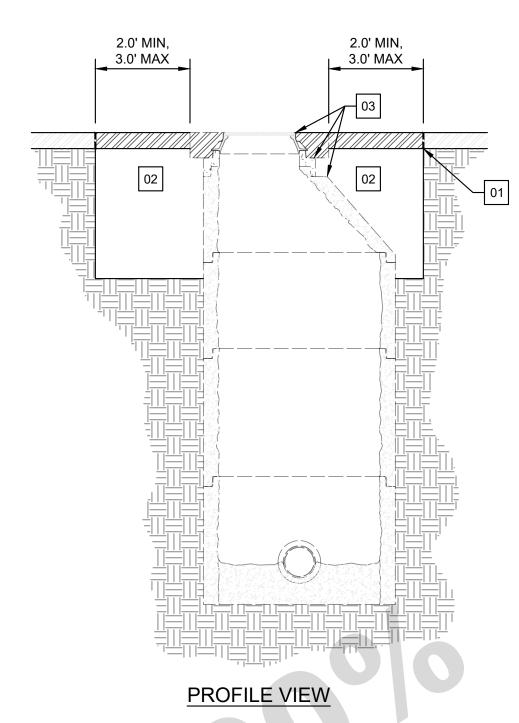
0 50' 100' 200

(IN FEET)

1 IN = 100 FT

SCALE: 1" = 100'



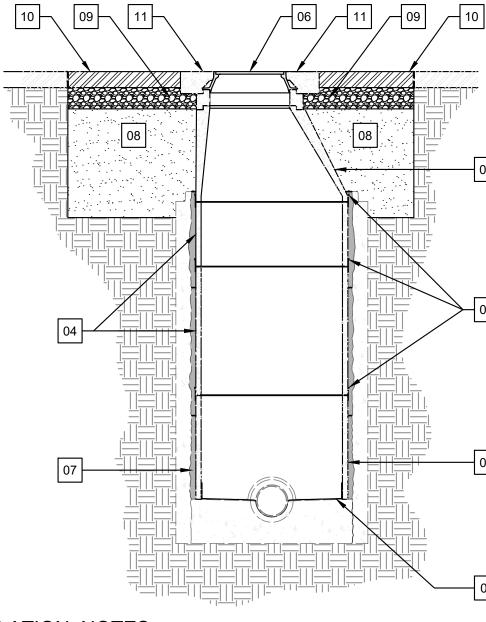


DEMOLITION NOTES:

- 1. SAW CUT AND REMOVE EXISTING AC PAVEMENT. SAW CUTS SHALL BE VERTICAL AND LOCATED 4.0 FT MIN. FROM THE EDGE OF THE EX. MANHOLE COVER. SAW CUTS SHALL BE PARALLEL OR PERPENDICULAR TO EX. ROAD ALIGNMENT, WHERE POSSIBLE.
- 2. REMOVE EX. SUBGRADE AND NATIVE SOIL SUCH THAT EX. MANHOLE CONE CAN BE REMOVED.
- 3. REMOVE EX. MANHOLE COVER, RING, GRADE RING(S), AND CONE.



SCALE: NTS

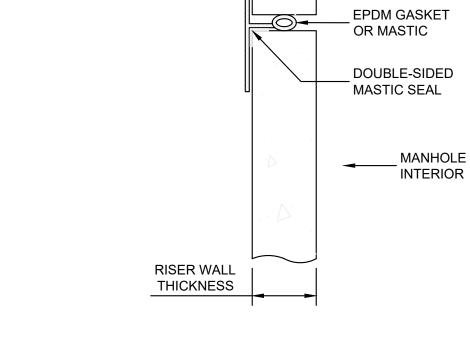


INSTALLATION NOTES:

- REPAIR EX. BASE AND MH CHANNEL WITH EPOXY GROUT PER SPECIFICATION SECTION 33 01 30.81, MANHOLE REHABILITATION.
- 2. PROVIDE NEW POLYMER MANHOLE BASE RISER AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. CORE, DRILL/CUT, AND LEVEL THE BASE RISER AS REQUIRED TO ACCOMMODATE ALL INCOMING SEWER MAINS.
- 3. PROVIDE MANHOLE RISER ALIGNMENT GUIDE WITH MASTIC. REFER TO DETAIL 3, THIS SHEET.
- 4. PROVIDE ADDITIONAL POLYMER MANHOLE RISERS, AS REQUIRED, PER MANUFACTURER'S RECOMMENDATIONS. INSTALL ALIGNMENT GUIDES BETWEEN EACH RISER. SEE NOTE 3.
- 5. PROVIDE POLYMER CONCRETE ECCENTRIC CONE SECTION AND GRADE RINGS AS REQUIRED BY THE MANHOLE DEPTH SO THAT FRAME AND COVER SIT FLUSH WITH EX. GRADE. CONE AND GRADE RINGS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. CONE SHALL BE ORIENTED IN SAME DIRECTION AS EX. CONE.
- 6. PROVIDE NEW RING AND COVER PER MCWD STANDARD DETAIL S-3, SHEET C-2.1,
- 7. FILL ANNULAR SPACE BETWEEN EX. MANHOLE AND NEW INSERT WITH 1-SACK CEMENT SLURRY. CONTRACTOR TO CALCULATE VOLUME OF 1-SACK SLURRY REQUIRED BASED ON FIELD MEASUREMENTS PRIOR TO ORDERING, AND SHALL MEASURE VOLUME OF SLURRY PLACED TO VERIFY NO VOIDS EXIST BETWEEN INSERT AND EX. MANHOLE.
- 8. BACKFILL SUBGRADE UP TO EX. BASE LAYER WITH SAND BACKFILL MATERIAL. SAND BACKFILL SHALL HAVE A MINIMUM SAND EQUIVALENT OF 30. COMPACT WITH VIBRATORY COMPACTION TO 95% MIN. RC.
- 9. CLASS II AGGREGATE BASE LAYER. MIN THICKNESS PER CITY OF MARINA STANDARD ST-3, SHEET C-2.2. ASSUME TI OF 6, CONTRACTOR TO VERIFY TI WITH CITY OF MARINA. COMPACT FILL MATERIAL TO 95% RC
- 10. ASPHALT CEMENT (AC) LAYER. AC SHALL BE HOT PLANT ASPHALT MIX. MIN THICKNESS PER CITY OF MARINA STANDARD ST-3, SHEET C-2.2. ASSUME TI OF 6, CONTRACTOR TO VERIFY TI WITH CITY OF MARINA.
- 11. PROVIDE CONCRETE COLLAR PER MCWD STANDARD DETAIL S-1, SHEET C-2.1.
- 12. EXCAVATIONS TO COMPLY WITH CAL-OSHA REQUIREMENTS AND REGULATIONS. SLOPED EXCAVATION ALLOWED WITH APPROVAL OF DISTRICT ENGINEER.
- 13. RESTORE THERMOPLASTIC STRIPING, PER SPEC. SECT. 32 17 23, PAVEMENT MARKINGS, WHERE EX. STRIPING WAS REMOVED DURING EXCAVATION.

MANHOLE INSERT INSTALLATION DETAIL

SCALE: NTS



OUTSIDE FACE OF

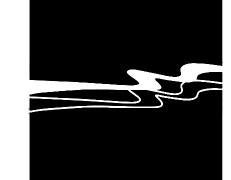
RISER ALIGNMENT

MANHOLE RISER

GUIDE

3 RISER JOINT DETAIL

SCALE: NTS



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MARINA COAST WATER DISTRICT ARY SEWER MANHOLE REHABILITA

DESIGNERS: ZCM

DRAWN BY: ZCM

DATE: 02/13/25

DRAWING NO.
C-2.0

SOUTHBAY FOUNDRY SFB 1900 OR EQUAL 24" FULL

TRAFFIC TYPE NON ROCKING MANHOLE FRAME AND

STANDARD

SHEET 1 OF 1

SCALE: NTS

COVER. DESIGNED FOR H-20 HIGHWAY LOADING

25<u>5</u>"

311"

MARINA COAST WATER DISTRICT STANDARD PLAN

TRAFFIC MANHOLE FRAME & COVER

MACHINED

CURVED BLIND

PICKHOLE —

SET WEIGHT

COVER 130

APPROVED BY

ENGINEER

DISTRICT

DATE

11/2007

FRAME 140 TOTAL 270 LBS

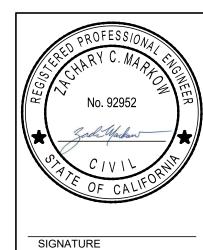
SURFACES

ORIGINAL SCALE IS IN INCHES

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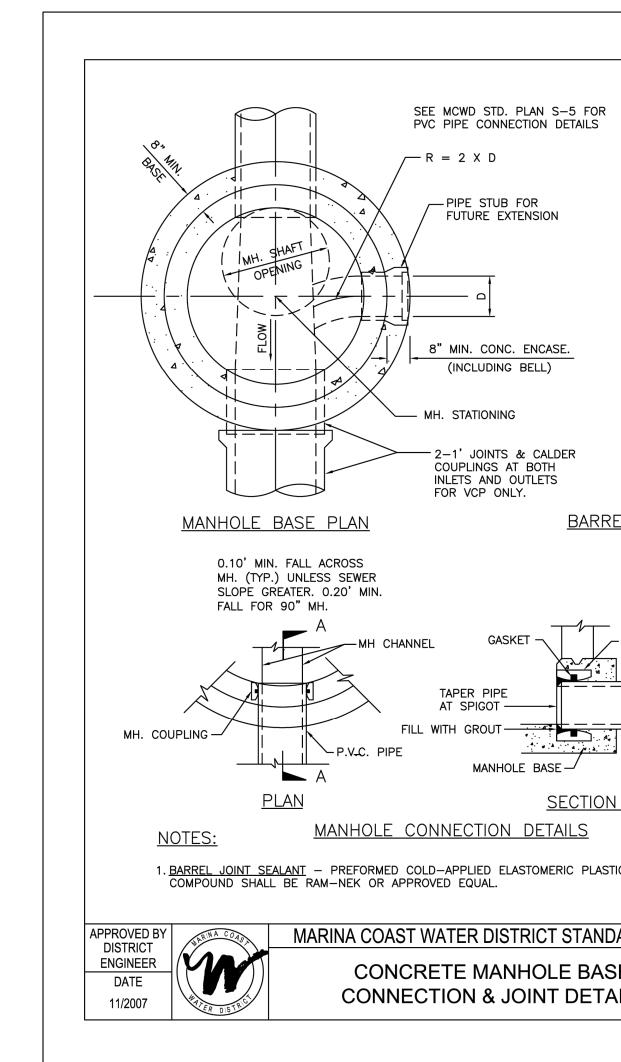
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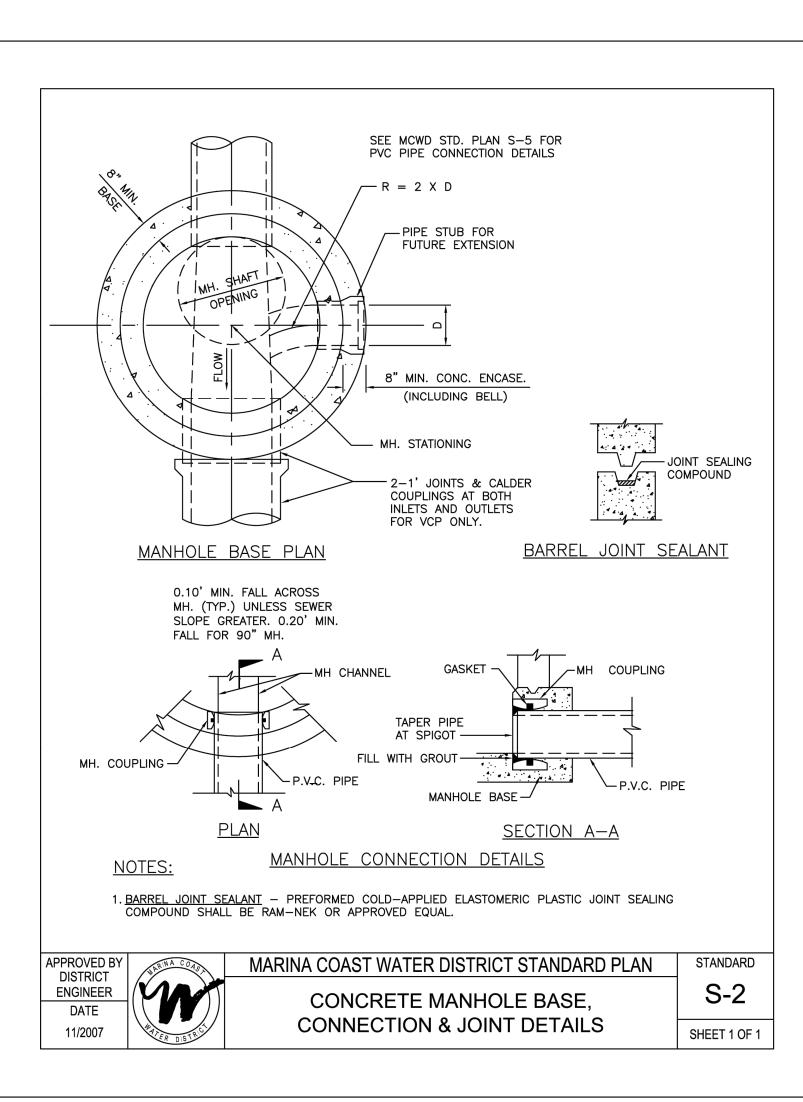
> REHABILITATION DISTRICT WATER MANHOLE COAST SEWER MARINA

DESIGNERS: ZCM DRAWN BY: ZCM

DATE: 02/13/25 DRAWING NO.

C-2.1 5 OF 9 SHEETS







— SEE MCWD STD. PLAN S-3 FOR FRAME & COVER DETAILS

__6" IN PAVED AREAS

— EXIST. A.B.

— EXIST. A.C. PAVEMENT

COURSE IS PLACED.

- CLASS "B" CONCRETE COLLAR AROUND

- WATER TIGHT JOINTS. SEE JOINT DETAILS MCWD STD. PLAN S-2

- ALL PRECAST MANHOLE SECTIONS SHALL

— CLASS "A" CONCRETE BASE CAST IN

- BASE POURED AGAINST UNDISTURBED SOIL.

ROCK REQUIRED PER SPECIFICATIONS

IF DISTURBED OR GROUND WATER, CRUSHED

PLACE MONOLITHICALLY. PRECAST MAN-

HOLES SHALL BE ALLOWED AT THE DIS-CRETION & APPROVAL OF THE DISTRICT

STANDARD

S-1

SHEET 1 OF 1

BE MANUFACTURED IN ACCORDANCE WITH SPECIFICATION SECTION 03461

/-INSTALL STOPPER IN STUB

- WATERSTOP GASKETS

ON PIPES

ENGINEER

─2% SLOPE

MANHOLE COVER FRAME. CIRCULAR COLLAR IN PAVED ARAES, SQUARE COLLAR IN UNPAVED AREAS. IN PAVED AREAS, MANHOLE SHALL BE RAISED TO GRADE AND CONCRETE COLLAR POURED AFTER FINAL SURFACE

-WARNING SIGN

2"A.C. PAVEMENT—

PRECAST ECCENTRIC

CONCRETE CONE

PVC LINER

(WHERE REQUIRED)

48" MIN

1"SLOPE -

1. PLACE TWO HALF MOON SHAPED PLYWOOD COVERS (5/8" THICK MINIMUM) ON MANHOLE

2. FOR DROP MANHOLE SEE MCWD STD. PLAN S-11. DROPS OVER 1-FT REQUIRE DISTRICT APPROVAL.

MARINA COAST WATER DISTRICT STANDARD PLAN

MANHOLE DETAILS

SHELF AFTER SHAFTS HAVE BEEN SET TO KEEP DEBRIS FROM ENTERING SEWER UNTIL

3. FOR MANHOLES LOCATED OUTSIDE PAVED AREAS THE FRAME AND COVER SHOULD BE SET

A MINIMUM OF 0.1 FT. ABOVE FINISH GRADE IN SHOULDER AREAS, UNPAVED ROADS OR

4. ALL INLETS AND OUTLETS SHALL BE SUPPORTED WITH CONCRETE SUPPORTS PRIOR TO

DIAM PER SECTION 03461

SEE NOTE 1

WATERSTOP GASKETS -

PROJECT COMPLETION & ACCEPTANCE BY DISTRICT.

LANDSCAPED AREAS, AND 18" IN UNFINISHED AREAS.

ON PIPES

POURING MANHOLE BASE.

APPROVED BY

DISTRICT

ENGINEER

DATE

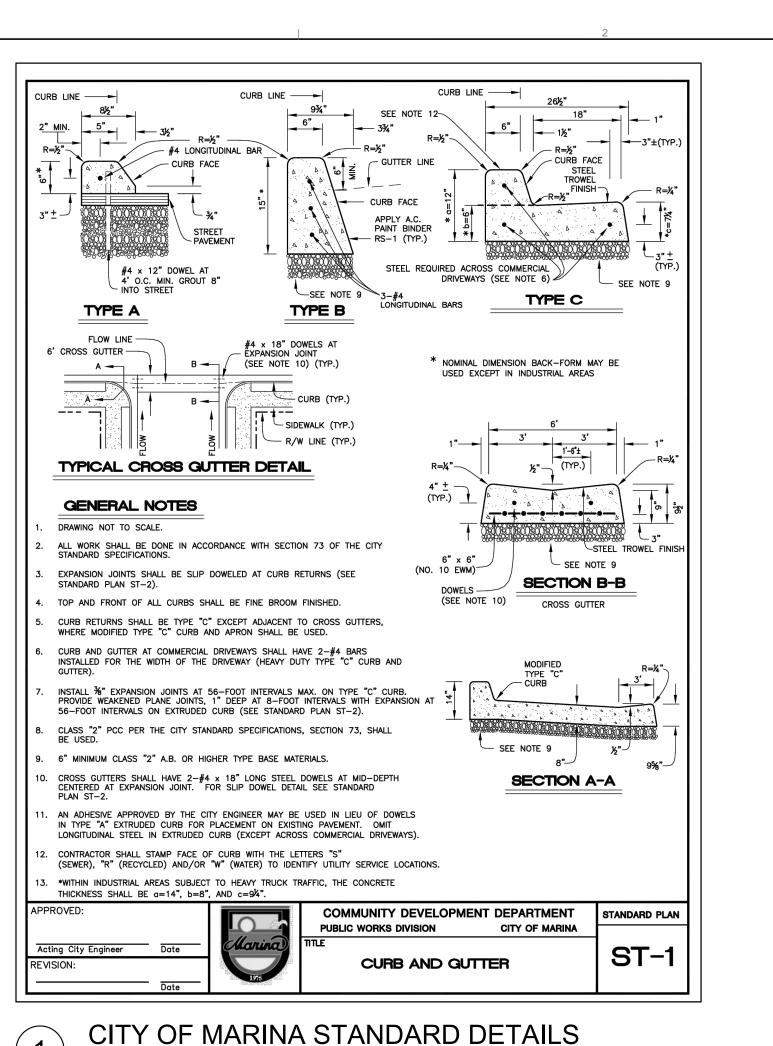
11/2007

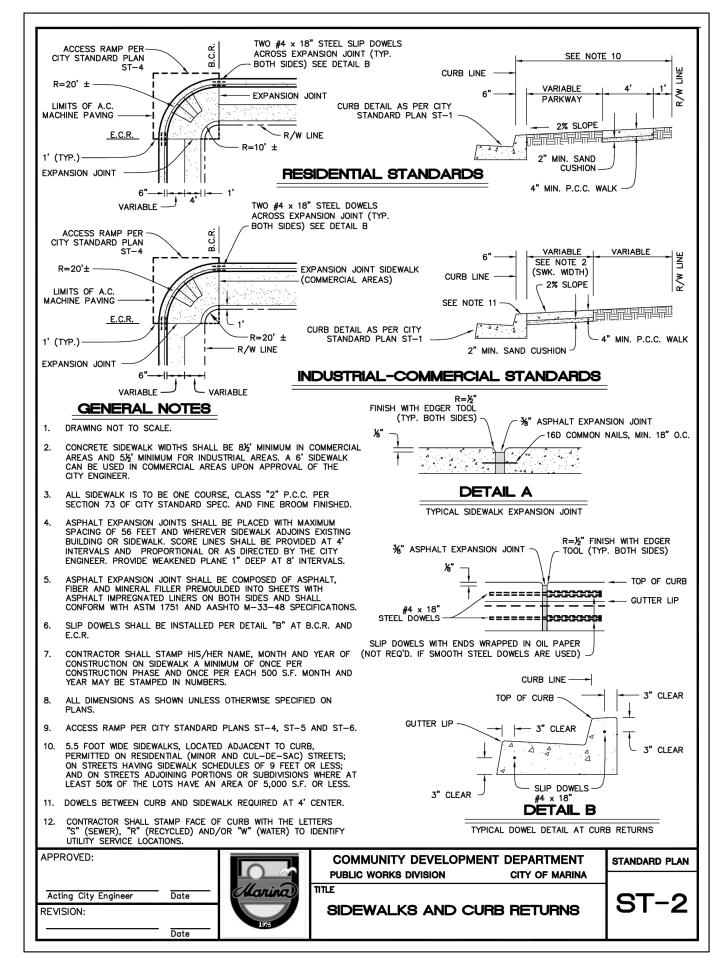
12" IN UNPAVED AREAS -

TOP OF PAVEMENT

OR EXIST. GRADE-

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES





FOR CRACKS 1/4" OR LARGER,

BACK OF CURB (E) ← SLOPE 1/4" PER FOOT

SIDEWALK REPAIR WITH DOWELS

90% OF RELATIVE COMPACTION

#3 DOWEL, 12" LONG WITH EPOXY

AT OPTIMUM MOISTURE

SPACED 18" ON CENTER

- SCORE

REPLACE SECTION

MARK

CONCRETE CURBS & WALKS WHICH ARE DEFECTIVE WITH CRACKING, DISPLACEMENT, SPALLING, OR EXCESSIVE

SURFACE CHIPS MAY BE REPAIRED BY AN EPOXY METHOD WHICH WILL RESULT IN A HARD SURFACED, NEAT

WHEN DEFECTIVE PORTIONS OF CURBS AND WALKS ARE REMOVED, THEY SHALL BE REMOVED IN SEGMENTS

BETWEEN SCORE MARKS AND/OR EXPANSION JOINTS. REPLACEMENT CONCRETE SHALL BE FORMED AND FINISHED TO THE SAME STANDARDS REQUIRED FOR NEW WORK. THE EDGE OF THE EXISTING ASPHALT

DRIVEWAY APRONS SHALL BE REPAIRED BY SAWING OUT THE DEFECTIVE PORTION BETWEEN SCORES OR JOINTS

CRACKING OF CURBS, WALKS, AND DRIVEWAY APRONS WILL REQUIRE REMOVAL AND REPLACEMENT WHEN THE

INSTALL DOWELS IN BACK OF CURB WHENEVER REPLACING MORE THAN ONE SECTION OF SIDEWALK OR AS

EPOXY SECTION 95, OF THE STANDARD SPECIFICATIONS, CALIFORNIA DEPARTMENT OF TRANSPORTATION.

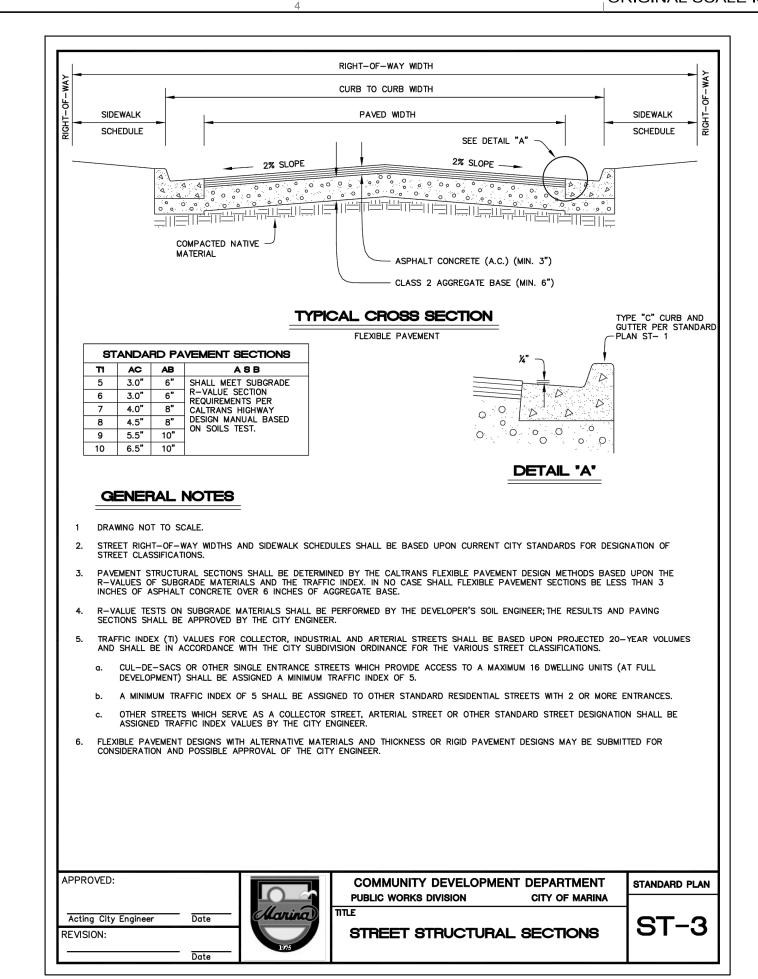
DOWELS SHALL BE #3, 12 INCH LONG, SPACE 18" ON CENTER. DOWELS SHALL CONFORM TO SECTION 52, AND

HONEYCOMBING SHALL BE REPAIRED BY REMOVING AND REPLACING THE DEFECTIVE PORTIONS.

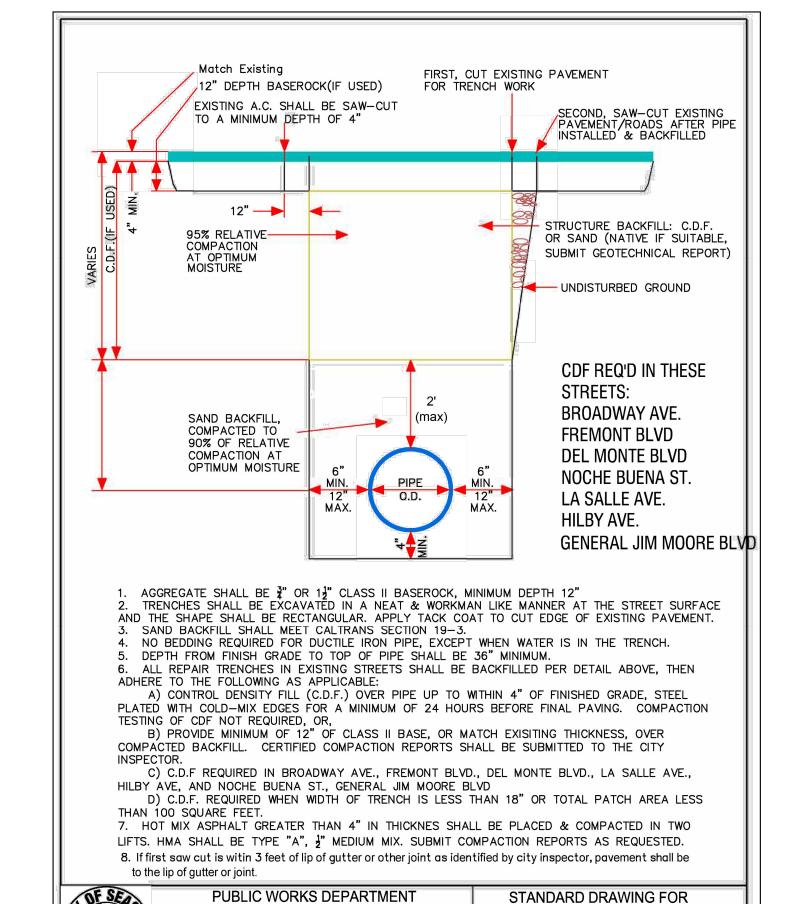
PERMANENT REPAIR. SURFACE TEXTURE AND COLOR MUST MATCH ADJACENT CONCRETE.

B. WHEN TWO OR MORE CRACKS OF ANY WIDTH OCCUR BETWEEN SCORE LINES

C. WHERE ANY DISPLACEMENT HAS OCCURED EITHER VERTICALLY OR HORIZONTALLY



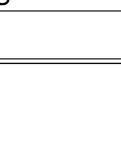




TIMOTHY P. O'HALLORAN, CITY ENGINEER - RCE NO. 49501 CITY COUNCIL RESOLUTION NO:

Drawing File No. S-601

APPROVED:



F VERTICAL DISPLACEMENT

SIDEWALK

CURB

IF HORIZONTAL DISPLACEMENT

....NEW.....CONCRETE.

PAVING WILL NOT BE USED AS A CURB FORM.

A. WHEN ANY INDIVIDUAL CRACK IS 3/32" WIDE OR WIDER.

DIRECTED BY CITY INSPECTOR. USE EPOXY TO SECURE DOWELS.

D. LIMITS OF REMOVAL TO BE DETERMINED BY THE CITY INSPECTOR.

FOLLOWING SITUATIONS OCCUR:

AND/OR EXPANSION JOINTS.

WHICH EXCEEDS 3/32".

DEPARTMENT OF TRANSPORTATION

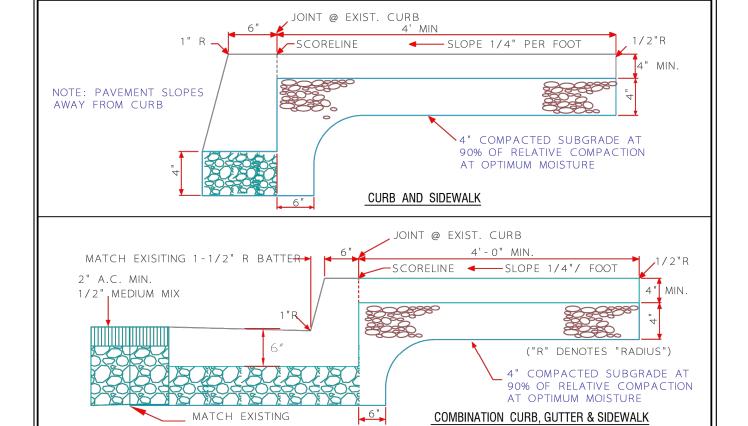
GUTTER

IS 1/4" OR MORE,

REPLACE SECTION

EXISTING CONCRETE

6" DEPTH, CLASS 2 AGGRAGATE COMPACTION AT OPTIMUM COMBINATION GUTTER AND CURB



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

REMOVAL SHALL BE AT SCORE LINES. SPECIFICATIONS, CALIFORNIA DEPARTMENT OF PUBLIC WORKS DEPARTMENT Drawing File No. S-101 APPROVED: TIMOTHY P. O'HALLORAN, CITY ENGINEER - RCE NO. 49501

LIMITS OF REMOVAL DETERMINED BY CITY INSPECTO STANDARD DRAWING FOR NEW CURB, GUTTER & SIDEWALK CITY COUNCIL RESOLUTION NO:

. CONCRETE SHALL BE CLASS 3,OR BETTER, PER SECTION 90-10, STANDARD SPECIFICATIONS, CALIFORNIA STANDARD DRAWING FOR & SIDEWALK

PUBLIC WORKS DEPARTMENT Drawing File No. S-102 TIMOTHY P. O'HALLORAN, CITY ENGINEER - RCE NO. 49501

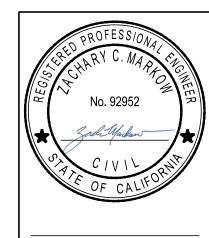
CONCRETE SHALL MEET 3,000 PSI COMPRESSIVE STRENGTH IN 28-DAY REQUIREMENT

REPAIR OF CURB, GUTTER

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drawing shall have this notice.

SCALE: NTS

REHABILIT DISTRIC MANHOLE OAST $\ddot{\circ}$ MARINA $\overline{\mathbf{S}}$

DESIGNERS: ZCM DRAWN BY: ZCM DATE: 02/13/25 DRAWING NO.

X OF 9 SHEETS



TRENCH BACKFILL

SDR LESS THAN 26



EROSION, SEDIMENT, AND WATER POLLUTION CONTROL PLAN

GRAPHIC SCALE 1,000' 2,00 (IN FEET) 1 IN = 1,000 FT

PROJECT SCOPE

- 1. REHABILITATION OF TWENTY-ONE (21) EXISTING SANITARY SEWER MANHOLES. REHABILITATION EFFORTS INCLUDE:
- MANHOLES. REHABILITATION EFFORTS INCLUDE:

 1.1. PROVIDING POLYMER CONCRETE MANHOLE INSERTS IN EIGHT

 (8) OF THE MANHOLES, AS SHOWN IN THE PLANS.
- 1.2. EPOXY-LINING THE INTERIOR OF THIRTEEN MANHOLES, AS SHOWN IN THE PLANS.
- 1.3. PROVIDING NEW COVERS, FRAMES, AND CONCRETE COLLARS FOR ALL TWENTY-ONE MANHOLES.

DISTURBED AREA

144 SF PER MANHOLE X 21 MANHOLES = 3,024 SF

TOTAL DISTURBED AREA = 3,024 SF (0.07 AC)

Rev.	Date	Description of Revisions	Ву

GENERAL NOTES:

1. 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:

- 1. CONSTRUCTION EQUIPMENT PARKING AND STORAGE, DRIP PANS REQUIRED. FOR 1. THE CONTRACTOR SHALL TAKE EFFECTIVE ACTION TO PREVENT THE FUELING AND MAINTENANCE, SEE REQUIRED BMP'S NS-9 AND NS-10, SHEET C-3.2. FORMATION OF AN AIRBORNE DUST NUISANCE AND SHALL BE
- FUELING AND MAINTENANCE, SEE REQUIRED BMP'S NS-9 AND NS-10, SHEET C-3.2.

 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.

 3. FUEL STORAGE/HAZMAT AREA WITH SECONDARY CONTAINMENT PER REQUIRED BMP'S PER REQUIRED BMPS WM-1, WM-2, WM-4, WM-5, WM-6, WM-7, AND WM-10.
- SEE SHEET C-3.2.
 4. CONCRETE WASHOUT PER REQUIRED DETAIL WM-8. SEE SHEET C-3.2.
- 5. INSTALL PROTECTION AT ALL STORM DRAIN INLETS WITHIN 50' OF PROJECT
- DISTURBANCE PER REQUIRED BMPS SE-10. SEE SHEET C-3.2.

 6. STOCKPILE MANAGEMENT PER BMP WM-3. SEE SHEET C-3.2.
- 7. 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:
- FOLLOWING MITIGATION MEASURES:

 1.1. WATERING OF DISTURBED AREAS DURING CONSTRUCTION TO MINIMIZE AIRBORNE DUST.
- 1.2. STABILIZE DISTURBED AREA WITH EROSION CONTROL
- MEASURES DURING AND FOLLOWING CONSTRUCTION.

 1.3. TEMPORARY CONSTRUCION ENTRANCE / EXIT INSTALLED AT ALL UNPAVED ACCESS ROADS. ENTRANCE AND EXIT TO UNPAVED AREAS SHOULD BE LIMITED TO ONE PER SITE.

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MARINA COAST WATER DISTRICT ARY SEWER MANHOLE REHABILITAT

 JOB #:
 1045-0006-00

 DESIGNERS:
 ZCM

 DRAWN BY:
 ZCM

 DATE:
 02/13/25

C-3.0

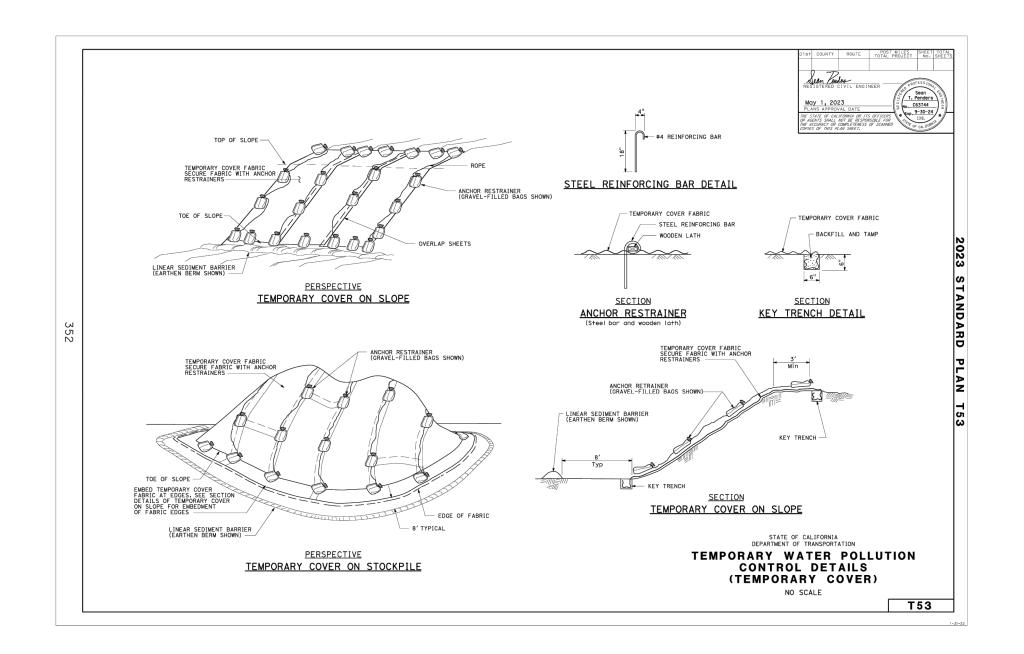
FILE NAME: 1045-0006-ESCP.DWG Plot Date: 2/13/2025

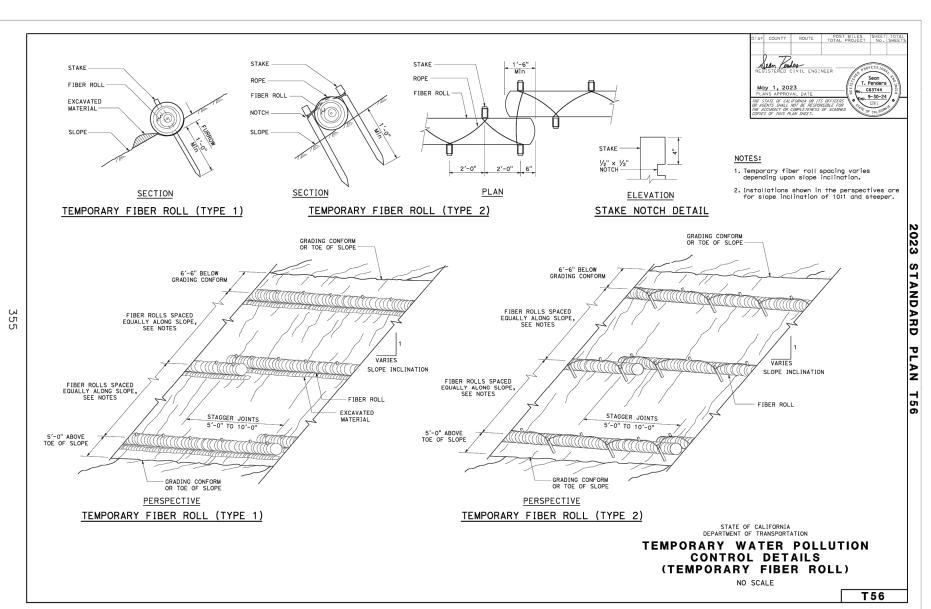
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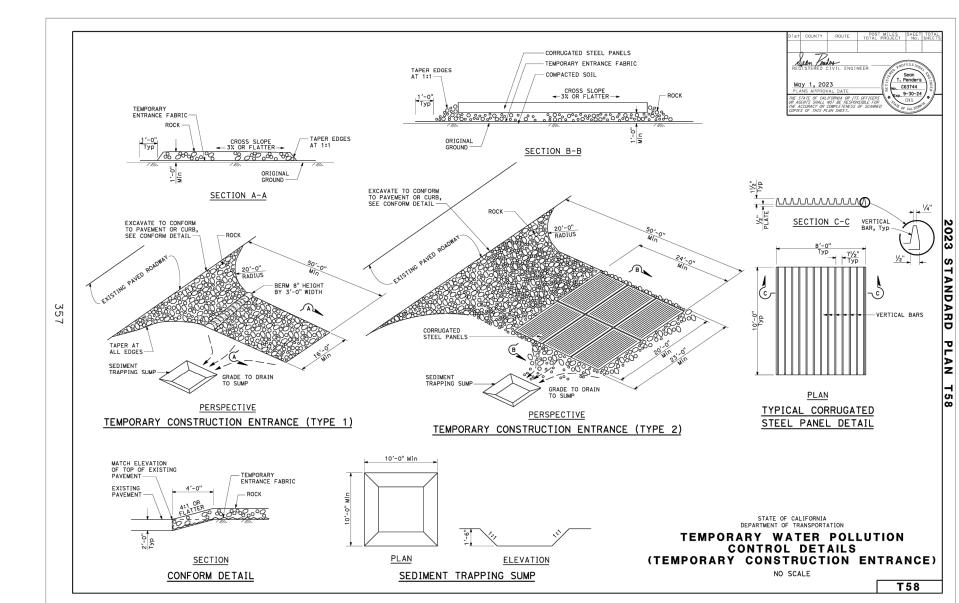
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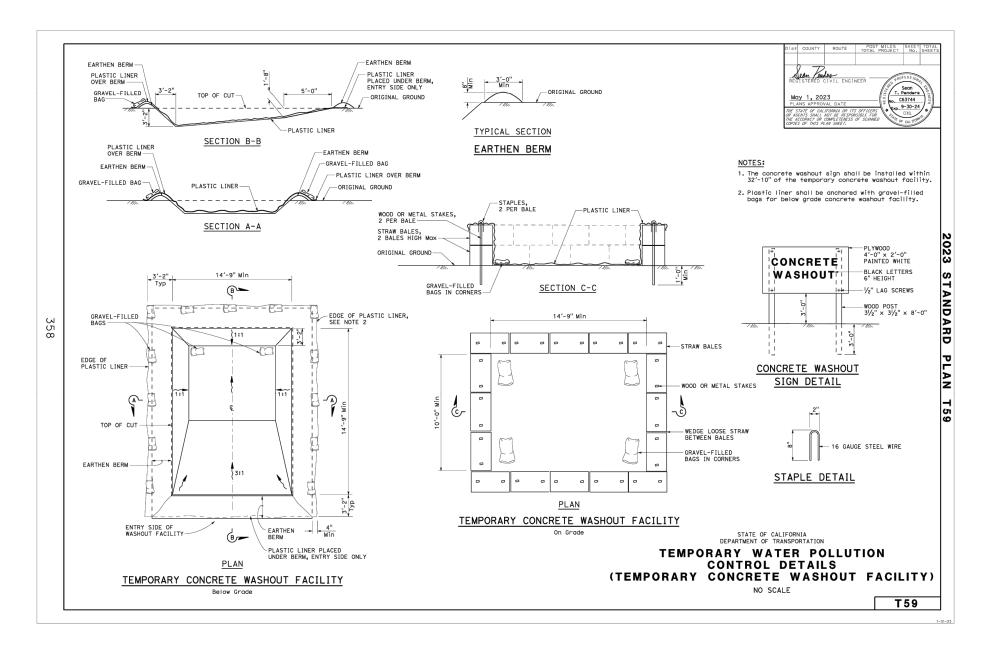
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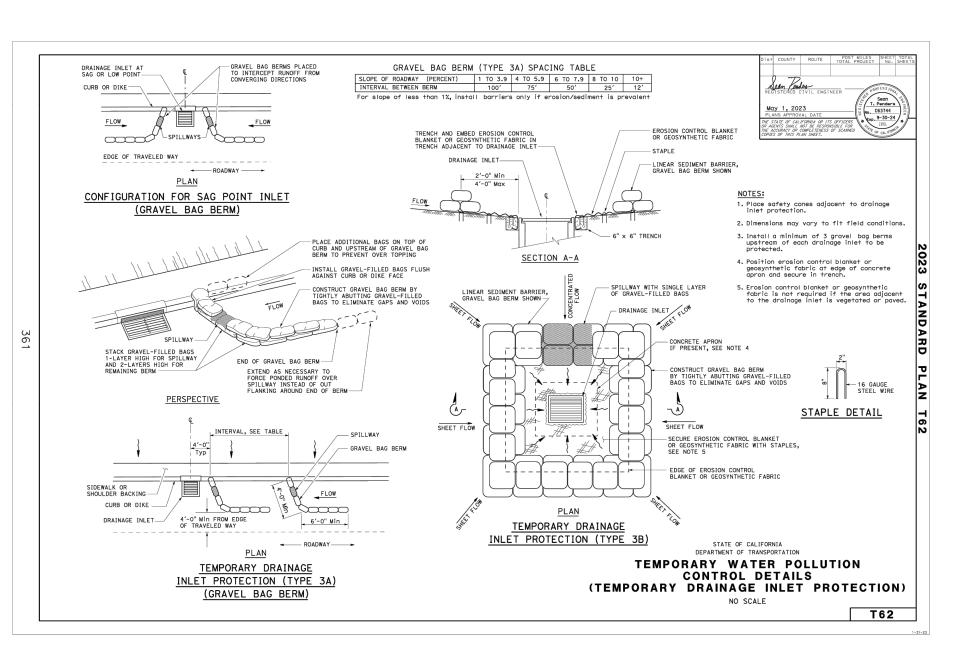
4 3

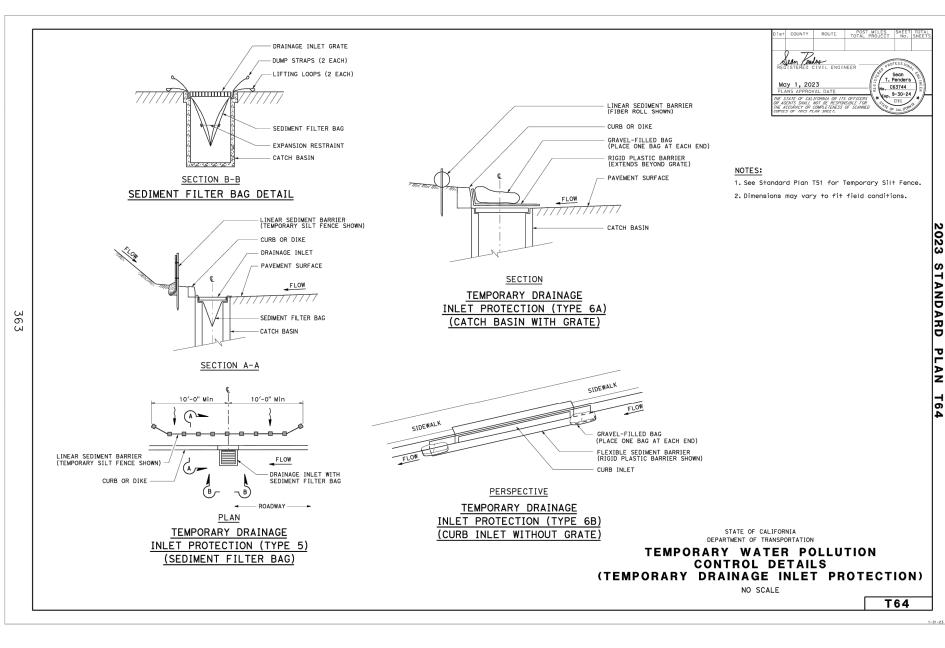










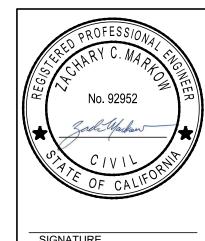




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MARINA COAST WATER DISTRICT
ANITARY SEWER MANHOLE REHABILITATION
EROSION CONTROL PLAN DETAILS

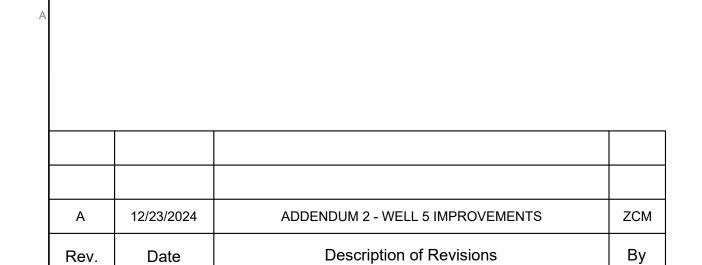
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DRAWN BY: ZCM
DATE: 02/13/25

DRAWING NO.

C-3.1

8 OF 9 SHEETS

JOB #: 1045-0006-00



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DESIGNERS: ZCM

DRAWN BY: ZCM

S

DATE: 02/13/25 DRAWING NO.

Vehicle and Equipment Fueling



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.

altrans Storm Water Quality Handbooks Construction Site BMP Manual

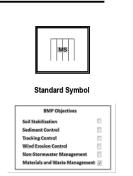
Material Delivery and Storage

Section 7 Vehicle and Equipment Fueling NS-9

WM-1

NS-9

Material Use



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:

 Lime Glues Adhesives Paints Solvents

 Curing compounds Soil stabilizers and binders Fertilizers Detergents

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

Construction Site BMP Manual

Material Delivery and Storage WM-1

Hazardous Waste Management



Tracking Control

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 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.

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

equipment off-site for fueling.

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

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

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 ft from downstream drainage facilities and receiving waters. Protect maintenance areas with berms or dikes to prevent run-on, runoff, and to contain spills

altrans Storm Water Quality Handbooks

WM-2



BMP Objectives

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: LimeGlues Adhesives

 Paints Solvents o Curing compounds Soil stabilizers and binders

 Fertilizers Detergents 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

Caltrans Storm Water Quality Handbooks Construction Site BMP Manual

Contaminated Soil Management



Soil Stabilization Sediment Control Tracking Control

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 soil management is implemented on construction projects where soil contamination may have occurred due to spills, illicit discharges, and leaks from underground storage tanks. 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

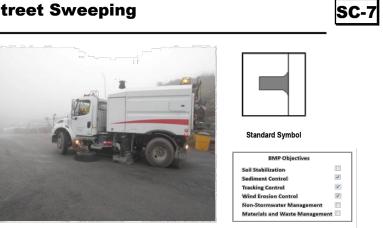
The procedures and practices presented in this best management practice (BMP) are general. The contractor shall identify appropriate practices and procedures consistent with the plans and specifications for the specific contaminants known to exist or discovered on site.

Standards and Specifications

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.

Street Sweeping



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

Sweep by hand or mechanical methods, such as vacuuming. Kick brooms or sweeper attachments may not be 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:

altrans Storm Water Quality Handbooks Construction Site BMP Manual

Street Sweeping SC-7

WM-3

Stockpile Management



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 Implemented in all projects that stockpile soil and other materials.

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 (3) 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 Utilize run-on and run-off BMPs to ensure stockpile materials are protected and do not have the potential to

Implement wind erosion control practices as appropriate on all stockpiled material. For specific information see WE-1, "Wind Erosion Control."

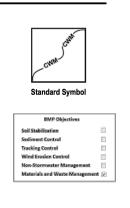
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Stockpile Management WM-

WM-8

Concrete Waste Management





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

Where mortar-mixing stations exist.

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."

Limitations

None identified.

Standards and Specifications

Educate employees, subcontractors, and suppliers on the concrete waste management techniques described

The WPC Manager shall oversee and enforce concrete waste management procedures.

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

Sediment removal may be difficult in high flow conditions or if runoff is heavily sediment laden. If high flow

obstacle to oncoming traffic. May require other methods of temporary protection to prevent sediment-laden stormwater and nonstormwater discharges from entering the storm drain system.

conditions are expected, use other on-site sediment trapping techniques, such as SC-4 "Check Dams," in Caltrans Storm Water Quality Handbooks

Section 4 Temporary Drainage Inlet Protection SC-10

BMP Objectives

oil Stabilization

Wind Erosion Control

WM-4

Spill Prevention and Control



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

Dust Palliatives.

 Herbicides. Growth inhibitors.

 Fertilizers. Deicing/anti-icing 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.





Soil Stabilization **Tracking Control** Materials and Waste Management

Definition and Purpose

Appropriate Applications

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.

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

Limitations

None identified.

Standards and Specifications Educate employees, subcontractors, and suppliers on sanitary and septic waste storage and disposal

Educate employees, subcontractors, and suppliers of potential dangers to humans and the environment from sanitary/septic wastes. Instruct employees, subcontractors, and suppliers in identification of sanitary/septic waste.

Hold regular meetings to discuss and reinforce disposal procedures (incorporate into regular safety meetings

Establish a continuing education program to indoctrinate new employees.

Temporary Construction Entrance/Exit



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.

Where dust is a problem during dry weather conditions.

Where poor soils are encountered.

Adjacent to water bodies

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 Site BMP Manual

Temporary Construction Entrance/Exit TC-1

Solid Waste Management



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 include but are not limited to:

■ Construction wastes including brick, mortar, timber, steel and metal scraps, sawdust, pipe and

electrical cuttings, non-hazardous equipment parts, styrofoam and other materials used to transport and package construction materials. ■ Highway planting wastes, including vegetative 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.

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Liquid Waste Management

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**

Drilling slurries and drilling fluids.

Liquid waste management is applicable to construction projects that generate any of the following nonhazardous byproducts, residuals, or wastes:

 Grease-free and oil-free wastewater and rinse water. Dredgings. 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 secured for the construction project (e.g., NPDES permits, Army Corps permits, Coastal Commission

WM-5, "Solid Waste Management"), hazardous wastes (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 pertinent Caltrans District, unless the discharge is determined by Caltrans to be a source of pollutants. Typical permitted nonstormwater discharges can include: water line flushing; landscape irrigation; diverted stream flows; rising

Does not apply to dewatering operations (see NS-2, "Dewatering Operations"), solid waste management (see

Solid Waste Management WM-5

Rev. Date Description of Revisions

Material Use WM-2

WM-7

Concrete Waste Management WM-

ground waters; uncontaminated pumped ground water; discharges from potable water sources; foundation