

MADRONA MARSH RESTORATION AND ENHANCEMENT PROJECT

CIP NO. I - 77

(NORTH OF SEPULVEDA BLVD, EAST OF MADRONA AVE., SOUTH OF PLAZA DEL AMO, & WEST OF MAPLE AVE.)

PROJECTS UNDER CONSTRUCTION

URBAN RUNOFF REQUIREMENTS

ALL PROJECTS UNDER CONSTRUCTION IN THE CITY OF TORRANCE MUST FOLLOW SPECIFIC BEST MANAGEMENT PRACTICES, OR BMPs. BMPs INSURE THAT HAZARDOUS MATERIALS, POLLUTANTS AND OTHER ITEMS ARE CONTAINED ON SITE AND DO NOT GET WASHED OR DUMPED INTO THE STORM DRAIN SYSTEM. THE BMPs IN THE LIST BELOW ARE REQUIRED BY CITY CODE SECTION 411.1. BMPs MUST BE PUT INTO PRACTICE AT THE START OF ANY CONSTRUCTION ON PRIVATE PROPERTY OR IN THE PUBLIC RIGHT OF WAY THAT MAY IMPACT THE DRAINAGE SYSTEM. BMPs MUST BE FULLY IMPLEMENTED UNTIL ALL WORK THAT MAY IMPACT THE DRAINAGE SYSTEM HAS BEEN COMPLETED. THE CONTRACTOR IS SOLELY RESPONSIBLE, AT ITS EXPENSE, TO PROVIDE ALL LABOR, TOOLS, MATERIALS, EQUIPMENT AND DEVICES NECESSARY TO IMPLEMENT ALL BMPs TO THE SATISFACTION OF THE COMMUNITY DEVELOPMENT AND PUBLIC WORKS DIRECTORS, AND IS NOT PERMITTED TO BEGIN CONSTRUCTION UNTIL SUCH ITEMS ARE IN PLACE.

BEST MANAGEMENT PRACTICES (BMP'S)

1. RUNOFF CONTAINING SEDIMENT, OIL, GREASE AND CONSTRUCTION WASTE FROM CONSTRUCTION SITES AND PARKING AREAS MUST NOT LEAVE THE SITE OR ENTER ANY ON-SITE STORM DRAIN OR UNDISTURBED AREAS OF MARSH.
2. ANY SEDIMENT OR OTHER MATERIALS WHICH ARE TRACKED OFF THE SITE MUST BE CLEANED AND REMOVED THE SAME DAY. WHERE DETERMINED TO BE NECESSARY BY THE DESIGNATED CITY REPRESENTATIVE, A TEMPORARY SEDIMENT BARRIER MUST BE INSTALLED.
3. PRIOR TO RAIN EVENTS, A PLASTIC COVERING MAY BE USED TO PREVENT EROSION OF AN UNPROTECTED AREA, ALONG WITH DEVICES DESIGNED TO INTERCEPT AND SAFELY DIVERT RUNOFF.
4. EXCAVATED SOIL MUST BE PLACED ON-SITE IN A WAY THAT INSURES THAT THE SOIL WON'T BE WASHED INTO THE STREET OR ADJOINING PROPERTIES OR UNDISTURBED AREAS OF MARSH.
5. DURING THE RAINY SEASON OR IF A CHANCE OF PRECIPITATION EXISTS, SOIL PILES MUST BE COVERED UNTIL THE SOIL IS EITHER USED OR REMOVED.
6. WASHING OF CONSTRUCTION OR OTHER INDUSTRIAL VEHICLES IS NOT ALLOWED ADJACENT TO THE CONSTRUCTION SITE. RUNOFF FROM THE WASHING OF VEHICLES ON A CONSTRUCTION SITE IS NOT ALLOWED TO LEAVE THE SITE OR ENTER THE STORM DRAIN.
7. DRAINAGE CONTROLS MUST BE USED AS NEEDED, DEPENDING ON THE EXTENT OF PROPOSED GRADING AND TOPOGRAPHY OF THE SITE.
8. CONTRACTOR SHALL SUBMIT SWPPP & BMP PLAN FOR CITY APPROVAL.

PENALTIES FOR NON-COMPLIANCE

FAILURE TO IMPLEMENT BEST MANAGEMENT PRACTICES AT CONSTRUCTION SITES SHALL CONSTITUTE A MISDEMEANOR PUNISHABLE BY A FINE AS PER CITY ORDINANCE NO. 3452. EACH DAY THAT A VIOLATION OCCURS SHALL CONSTITUTE A SEPARATE OFFENSE. THE CITY IS ALSO AUTHORIZED TO ABATE VIOLATIONS BY MEANS OF A CIVIL ACTION. CONSTRUCTION SITES ARE SUBJECT TO STOPPAGE OF WORK FOR VIOLATION OF THESE REQUIREMENTS. VIOLATION OF THESE PROVISIONS ALSO VIOLATE THE REGULATION OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), CLEAN WATER SECTION 402 AND DIVISION 7 OF THE CALIFORNIA WATER CODE. THE VIOLATOR MAY BE SUBJECT TO FINES AND/OR IMPRISONMENT AS PER STATE AND/OR FEDERAL STATUTES.

REPORT OF GEOTECHNICAL EVALUATION

"REPORT OF GEOTECHNICAL EVALUATION PROPOSED OFFICE AND RESIDENTIAL DEVELOPMENTS 166-ACRES SITE, SEPULVEDA BOULEVARD BETWEEN CRENSHAW BOULEVARD AND MADRONA AVENUE, TORRANCE, CALIFORNIA, FOR THE TORRANCE INVESTMENT CO." PREPARED BY LEROY CRANDALL AND ASSOCIATES, DATED MAY 22, 1981

SHEET INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES, CONSTRUCTION NOTES, UTILITY NOTES, ABBREVIATIONS
3	SITE STAGING, ACCESS & CLEAR AND GRUB PLAN
4	WETLANDS TREATMENT PLAN
5	AUTOMATIC RETRACTABLE SCREEN MAP
6	GRADING PLAN

LEGEND

—	PROPOSED
- - -	EXISTING
—SD—	UTILITY LINE
→	DIRECTION OF FLOW
-X-	EXISTING FENCE
—	CATCH BASIN

STANDARD DRAWINGS

CITY OF TORRANCE

T116	TRENCH BACKFILL
T204	BEDDING FOR SEWER PIPE
T401	TREE PLANTING
T716	SEWER ENCASEMENT

SPPWC

200	PRECAST CONCRETE SEWER MANHOLE
210	MANHOLE FRAME AND COVER LOCKING TYPE
303	CURBSIDE GRATING CATCH BASIN
308	MONOLITHIC CATCH BASIN CONNECTION
309	CATCH BASIN REINFORCEMENT
311	FRAME AND GRATING FOR CATCH BASINS
636	POLYPROPYLENE PLASTIC STEP

SWPPP

CONTRACTOR SHALL PREPARE AND COMPLY WITH A PROJECT-SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ACCORDING TO THE PROJECT SPECIFICATIONS

REFERENCES

- CITY OF TORRANCE PLAN NO. ST-718 (MADRONA AVENUE - CARSON TO SEPULVEDA)
- CITY OF TORRANCE PLAN NO. SD-439 (MADRONA MARSH RETENTION BASIN STORM WATER PUMP STATION - VOLUME 2 OF 2)
- GIS & AUTOCAD FILES OF UTILITIES, EASEMENTS, RIGHT-OF-WAY & CITY FACILITIES: CITY OF TORRANCE

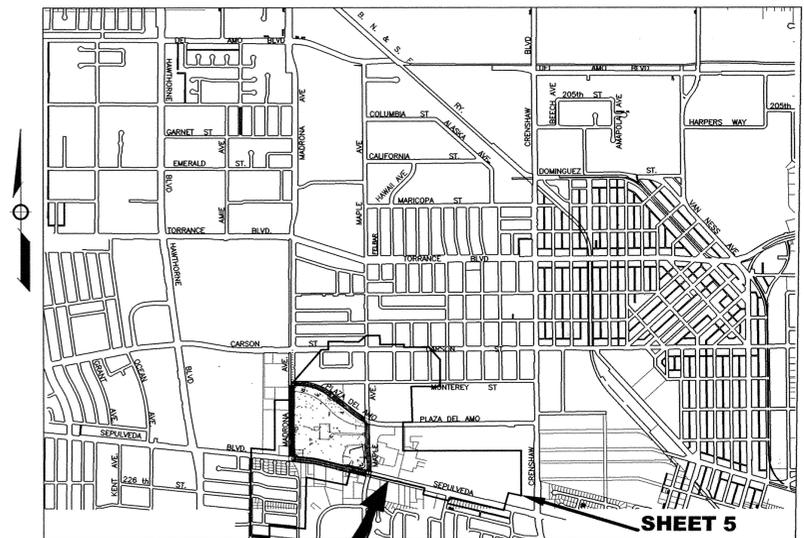
AERIAL TOPOGRAPHIC SURVEY (18 FEB 2008): DULIN & BOYNTON

BASIS OF BEARINGS

THE BEARING N 0°35'27" W FOR THE CENTERLINE OF MAPLE AVENUE AT PLAZA DEL AMO (SHOWN AS TOLEDO STREET ON TRACT NO. 43326) WAS USED AS THE BASIS OF BEARINGS FOR THIS MAP. THE BEARINGS AND DISTANCES SHOWN HEREON ARE RECORD INFORMATION BASED UPON FOUND MONUMENTATION ON MAPLE AVENUE BETWEEN PLAZA DEL AMO AND SEPULVEDA BOULEVARD.

BENCHMARK:

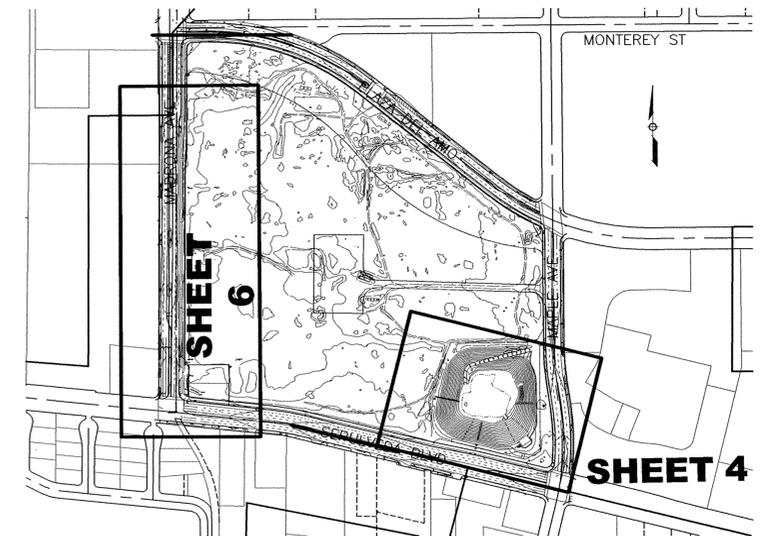
L.A. COUNTY BM #Y8431 AT MAPLE AVE. AND SEPULVEDA BLVD. 1995 ELEV=85.663 FEET NAVD88



PROJECT LOCATION

VICINITY MAP

N.T.S.

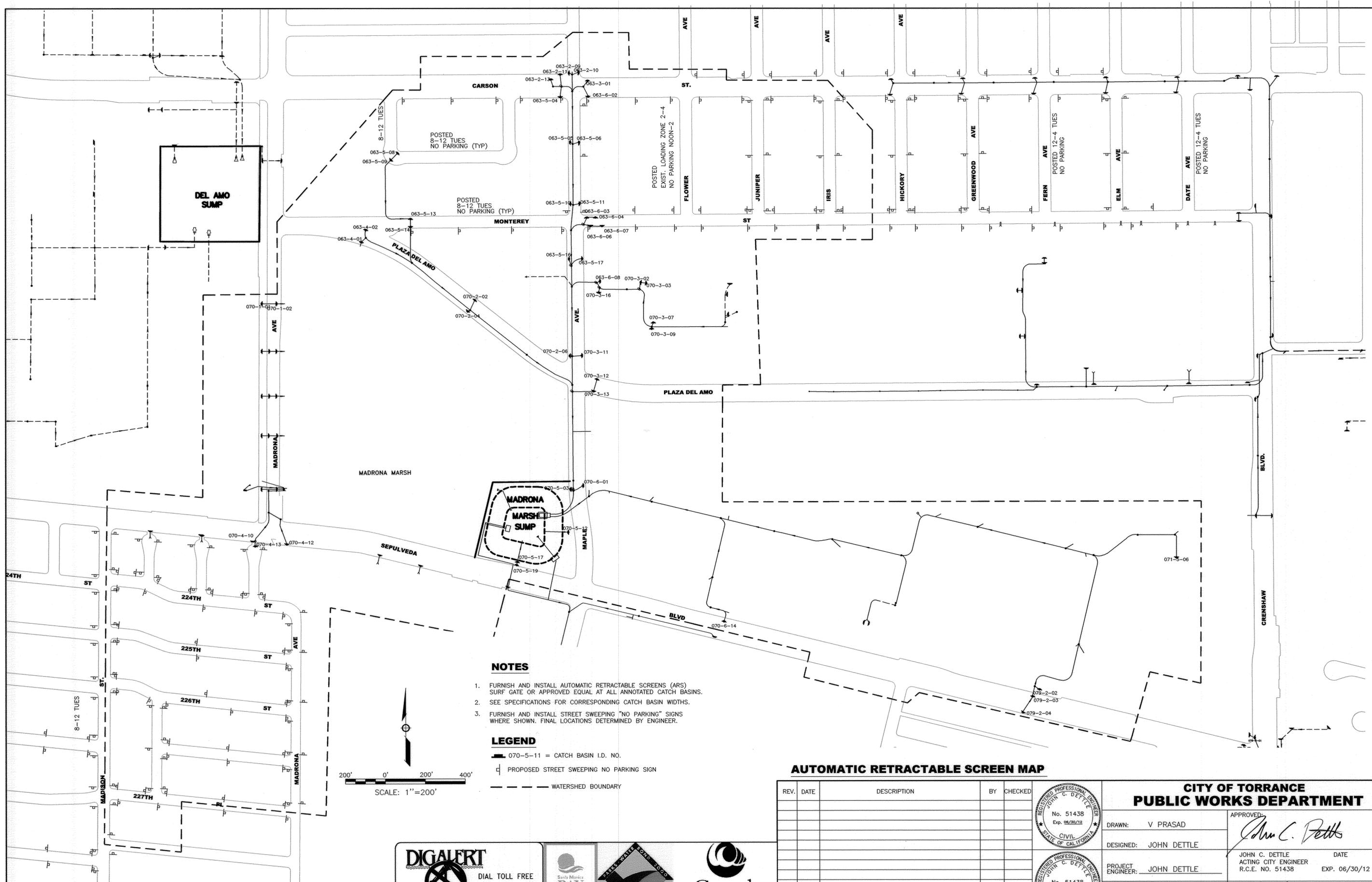


KEY MAP

N.T.S.

REV.	DATE	DESCRIPTION	BY	CHECKED		CITY OF TORRANCE PUBLIC WORKS DEPARTMENT	
						DRAWN: V PRASAD	APPROVED: <i>John C. Dettle</i>
					DESIGNED: JOHN DETTLE	JOHN C. DETTLE ACTING CITY ENGINEER R.C.E. NO. 51438	
					PROJECT ENGINEER: JOHN DETTLE	DATE EXP. 06/30/12	
					DIVISION ENGINEER: JOHN DETTLE	SCALE: AS SHOWN SHEET 1 OF 6 PLAN NO. SD-499	





NOTES

1. FURNISH AND INSTALL AUTOMATIC RETRACTABLE SCREENS (ARS) SURF GATE OR APPROVED EQUAL AT ALL ANNOTATED CATCH BASINS.
2. SEE SPECIFICATIONS FOR CORRESPONDING CATCH BASIN WIDTHS.
3. FURNISH AND INSTALL STREET SWEEPING "NO PARKING" SIGNS WHERE SHOWN. FINAL LOCATIONS DETERMINED BY ENGINEER.

LEGEND

- 070-5-11 = CATCH BASIN I.D. NO.
- PROPOSED STREET SWEEPING NO PARKING SIGN
- WATERSHED BOUNDARY

AUTOMATIC RETRACTABLE SCREEN MAP

REV.	DATE	DESCRIPTION	BY	CHECKED

REGISTERED PROFESSIONAL ENGINEER
 JOHN C. DETTLE
 No. 51438
 Exp. 06/30/12
 CIVIL
 STATE OF CALIFORNIA

**CITY OF TORRANCE
 PUBLIC WORKS DEPARTMENT**

APPROVED: *John C. Dettle*

JOHN C. DETTLE
 ACTING CITY ENGINEER
 R.C.E. NO. 51438
 DATE
 EXP. 06/30/12

SCALE: AS SHOWN SHEET 5 OF 6
 PLAN NO. **SD-499**

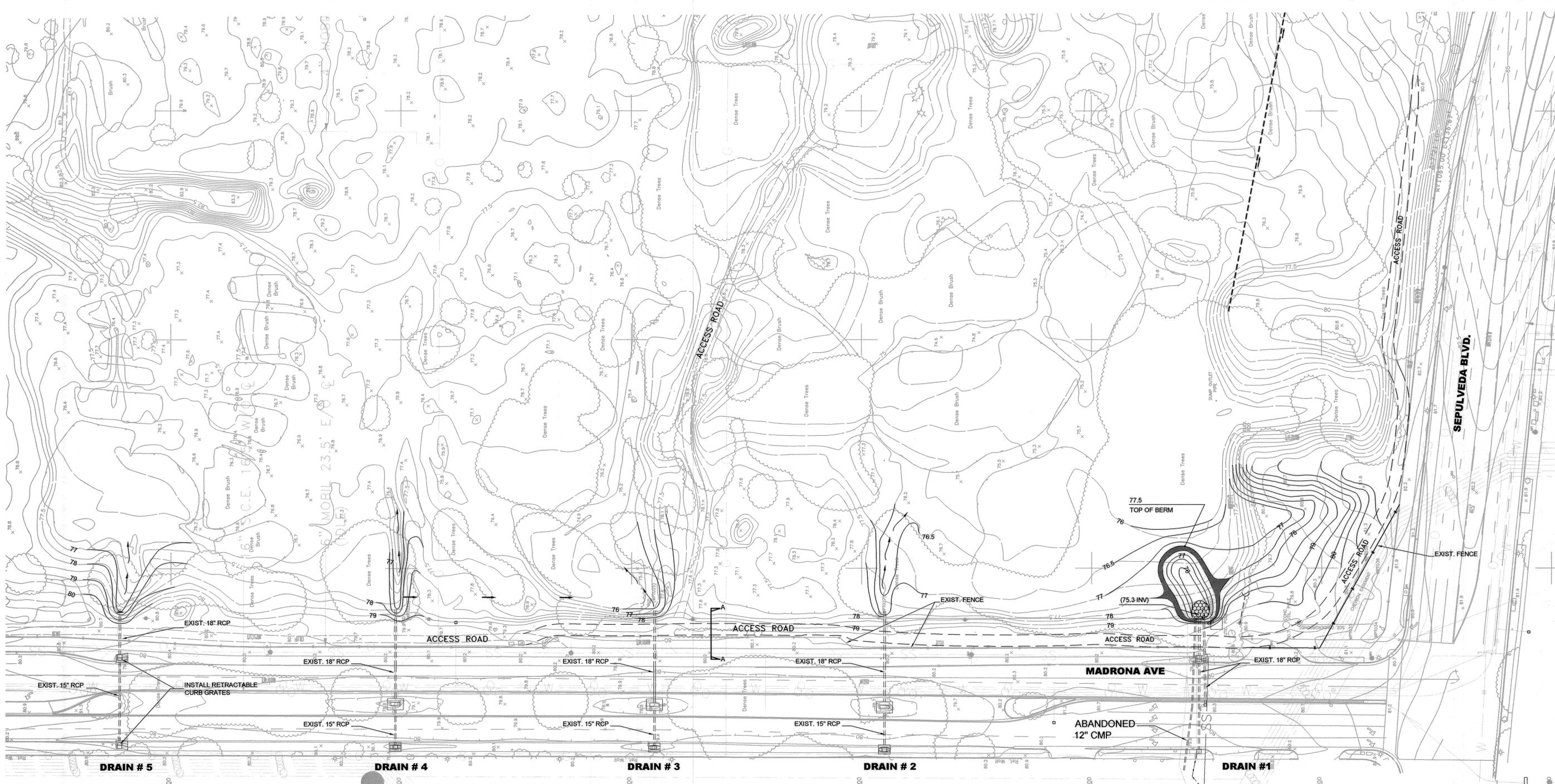
DIGALERT
 DIAL TOLL FREE
 1-800-227-2600
 AT LEAST TWO DAYS
 BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

San Diego **BAY** Restoration Commission

San Diego **WATER** BOARD **WORLD** STATE OF CALIFORNIA

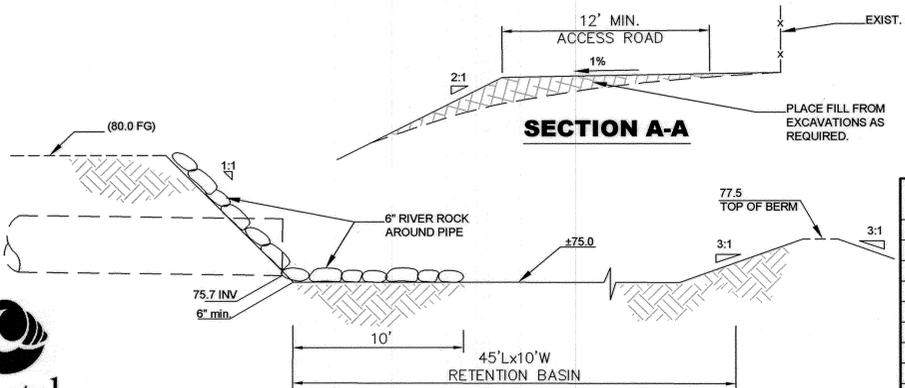
Coastal Conservancy

Small text at the bottom left corner, likely a title block or revision history.



EARTHWORK VOLUMES		
CUT (CY)	FILL (CY)	NET (CUT) (CY)
310 CY	310 CY	0 CY

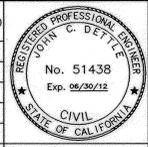
- NOTES**
- 6" RIVER ROCK AVAILABLE FROM CITY YARD.
 - EXCAVATED SOILS TO BE SPREAD ON EXISTING ACCESS ROAD IN MARSH PER ENGINEER.
 - HYDRO-SEED ON EXCAVATED AREAS PER SPECIFICATIONS.



DRAIN # 1 INLET BASIN DETAIL

GRADING PLAN

REV.	DATE	DESCRIPTION	BY	CHECKED



**CITY OF TORRANCE
PUBLIC WORKS DEPARTMENT**

APPROVED: *John C. Dettle*

JOHN C. DETTLE
ACTING CITY ENGINEER
R.C.E. NO. 51438

DATE
EXP. 06/30/12

SCALE: 1"=30' SHEET 6 OF 6

PLAN NO. **SD-499**

