STORM DRAIN GENERAL NOTES

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION AND SUPPLEMENTS THERETO, AS WRITTEN AND PROMULGATED BY PUBLIC WORKS STANDARDS, INC., HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS, THE TORRANCE STANDARDS. AND TO THE SATISFACTION OF THE COMMUNITY DEVELOPMENT OR PUBLIC WORKS DIRECTOR.
- 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, VERIFY DEPTH AND PROTECT ALL STRUCTURES, INCLUDING SUBSTRUCTURES, SHOWN ON THE PLAN. THE CONTRACTOR SHALL BEAR THE ENTIRE COST OF REPAIRING OR REPLACING ANY OF SAID STRUCTURES DAMAGED BY HIM/HER DURING PROSECUTION OF THE WORK. ALL REPAIRS AND REPLACEMENTS SHALL BE DONE IN THE PRESENCE OF THE INSPECTOR. ALL LOCATIONS SHOWN ON THE PLAN FOR UTILITY LINES HAVE BEEN TAKEN FROM AVAILABLE RECORDS AND THEIR COMPLETENESS AND CORRECTNESS ARE IN NO WAY GUARANTEED.
- 3. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 AND ALL PUBLIC UTILITY COMPANIES AND OWNERS OF PRIVATE FACILITIES WITHIN THE AREA OF CONSTRUCTION AT LEAST 2 WORKING DAYS IN ADVANCE OF PERFORMING ANY WORK WITHIN SAID
- 4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY BEFORE COMMENCING WORK. TRAFFIC CONTROL WITHIN PUBLIC STREET RIGHTS OF WAY SHALL BE IN CONFORMANCE WITH THE CALIFORNIA MUTCD MANUAL OR CITY OF TORRANCE STANDARD FOR TRAFFIC CONTROL, LATEST EDITION. THE CONTRACTOR SHALL PROVIDE A 24-HOUR TELEPHONE NUMBER FOR EMERGENCY REPAIRS TO TRAFFIC CONTROL AND PAVEMENT MARKINGS.
- 5. CAUTION: REVIEW APPROVED CONSTRUCTION PLAN. IF CONSTRUCTION REQUIRES WORKERS AND/OR EQUIPMENT TO BE WITHIN 6 FEET OR CRANES OR HOISTING DEVICES TO BE WITHIN 10 FEET OF OVERHEAD ELECTRIC LINES, CALL SOUTHERN CALIFORNIA EDISON AT 310-783-9336.
- 6. PRIOR TO COMMENCEMENT OF WORK, ALL SURVEY MONUMENTS IN THE PROJECT AREA SHALL BE LOCATED AND TIED OUT. ALL CENTERLINE MONUMENTS OR TIES LOST OR DESTROYED BY THIS WORK SHALL BE REPLACED EITHER BY A LICENSED SURVEYOR OR A CIVIL ENGINEER REGISTERED PRIOR TO JANUARY 1. 1982 AND NEW TIE SHEETS PROVIDED. METHOD OF ESTABLISHMENT SHALL BE STATED ON THE TIE SHEET.
- 7. GRADE SHEETS PREPARED AND STAMPED BY A LICENSED ENGINEER OR SURVEYOR SHALL BE DELIVERED TO THE INSPECTOR 24 HRS PRIOR TO COMMENCEMENT OF WORK.
- 8. THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT AT 310-781-6900 PRIOR TO TRIMMING, REMOVING OR RELOCATING ANY EXISTING TREES.
- 9. UNLESS OTHERWISE SHOWN, ALL TRAFFIC SIGNS SHALL BE RELOCATED OR REMOVED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT AT 310-781-6900 AT LEST 2 WORKING DAYS IN ADVANCE OF THE WORK.
- 10. STORM DRAIN CONNECTIONS TO THE L.A. COUNTY STORM DRAIN SYSTEM REQUIRE A PERMIT FROM L.A. COUNTY (1-626-458-3129) BEFORE ISSUANCE OF A CITY PERMIT.
- 11. IN CASE OF CONFLICT BETWEEN A CONNECTOR PIPE AND AN EXISTING UNDERGROUND LINE, THE CONNECTOR PIPE MAY BE REALIGNED OVER OR UNDER THE CONFLICTING LINE. CONNECTOR PIPE GRADES SHALL DRAIN POSITIVELY TOWARD THE MAIN LINE, AND WHERE GRADE BREAKS EXCEED FIVE DEGREES A CONCRETE COLLAR PER A.P.W.A. STD. DRAWING 380 SHALL BE CONSTRUCTED. APPROVAL FOR REALIGNMENT SHALL BE OBTAINED FROM THE COMMUNITY DEVELOPMENT/PUBLIC WORKS DIRECTOR PRIOR TO COMMENCEMENT OF WORK.
- 12. TRENCH CUT INTO AN EXISTING ROADWAY WITHIN THE PUBLIC RIGHT OF WAY SHALL BE BACKFILLED AND PAVED AS PER TORRANCE STANDARD
- 13. MANHOLE AND CATCH BASIN COVERS SHALL BE CAST WITH THE WORDS "TORRANCE DRAIN" FOR CITY MAINTAINED LINES AND "PRIVATE DRAIN" FOR PRIVATELY MAINTAINED LINES.
- 14. DURING NON-CONSTRUCTION HOURS, ALL EXCAVATIONS MUST BE APPROPRIATELY SHORED, PLATED OR BACKFILLED EXCEPT BORE PITS WHICH SHALL BE SECURED WITH K-RAIL AND 6' HIGH CHAIN LINK FENCE PANELS SECURED IN PLACE TO THE SATISFACTION OF THE PUBLIC WORKS INSPECTOR. STEEL PLATES SHALL BE TACK WELDED, PINNED AND/OR SECURED IN PLACE BY ANOTHER METHOD APPROVED BY THE INSPECTOR.
- 15. THE CONTRACTOR SHALL MAKE AVAILABLE FOR THE INSPECTOR'S REVIEW. ON A DAILY BASIS, AS-BUILT DRAWINGS FOR WORK PERFORMED UP TO AND INCLUDING THE PREVIOUS DAY'S ACTIVITIES. WORK SHALL NOT BE CONSIDERED AS COMPLETE UNTIL AS-BUILT DRAWINGS ARE SUBMITTED TO AND ACCEPTED BY THE COMMUNITY DEVELOPMENT

PLAN AND PROFILE FOR STORM DRAIN SYSTEM OFFICIAL MAP NO. 4

TORRANCE TRANSIT PARK & RIDE REGIONAL TERMINAL PHASE 2 (WEST SIDE OF CRENSHAW BLVD. NORTH OF DOMINGUEZ ST.)

SURVEY MONUMENTS

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MONUMENTATION AND/OR BENCHMARKS THAT ARE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR REGISTERED ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OF SURVEY AS APPROPRIATE. SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER AS REQUIRED BY THE LAND SURVEYOR'S ACT FOR ANY REPLACED MONUMENTATION.

BASIS OF BEARINGS

THE BEARING OF THE CENTERLINE OF CRENSHAW BOULEVARD. SHOWN AS NOO'34'10"W ON RECORD OF SURVEY FILED IN BOOK 230, PAGE 47 OF RECORDS OF SURVEYS, RECORDS OF LOS ANGELES COUNTY, WAS TAKEN AS THE BASIS OF BEARINGS FOR THESE PLANS.

SOURCE OF TOPOGRAPHY

PHOTOGRAMMETRIC TOPOGRAPHY PROVIDED BY: PSOMAS DATED: 09/10/2013

EROSION CONTROL

THE CONTRACTOR IS RESPONSIBLE TO REPAIR ANY EROSION DAMAGE TO THE SLOPES, PADS OR STREETS SHOWN ON THESE PLANS WHETHER THE SLOPES ARE EXISTING OR NEW SLOPES, UNTIL THE PROJECT IS ACCEPTED BY THE CITY ENGINEER.

GEOTECHNICAL REPORT

A GEOTECHNICAL REPORT ENTITLED "GEOTECHNICAL SERVICES FOR ADVANCED CONCEPTUAL ENGINEERING. TORRANCE TRANSIT PARK & RIDE REGIONAL TERMINAL, 465 CRENSHAW BLVD., TORRANCE, CALIFORNIA" PREPARED BY "DIAZ YOURMAN & ASSOCIATES" DATED APRIL 14, 2014 HAS BEEN PREPARED FOR THIS PROJECT AND IS AVAILABLE FOR REVIEW BY THE CONTRACTOR FOR REFERENCE AT THE OFFICE OF THE CITY ENGINEER.

ENGINEER'S NOTICE TO CONTRACTORS

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OF STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THESE LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND OR GRADE OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRÉCAUTIONARY MEASURE TO PROTECT ANY UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE CITY OF TORRANCE AND DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY OF TORRANCE AND/OR DESIGN PROFESSIONAL.

LIST OF DRAWINGS

SHEET No. DESCRIPTION TITLE SHEET STORM DRAIN PLAN AND PROFILE DETAILS

REFERENCE DRAWINGS

SD-1003

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS LISTED BELOW.

STANDARD SPECIFICATIONS

1) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC), LATEST EDITION.

2) CALIFORNIA DEPARTMENT OF TRANSPORTATION. "MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES" (MAY 19, 2004)

STANDARD DRAWINGS

CITY OF TORRANCE STANDARD DRAWINGS, LATEST EDITION.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC), LATEST EDITION.

LEGEND

EXISTING CONDITIONS

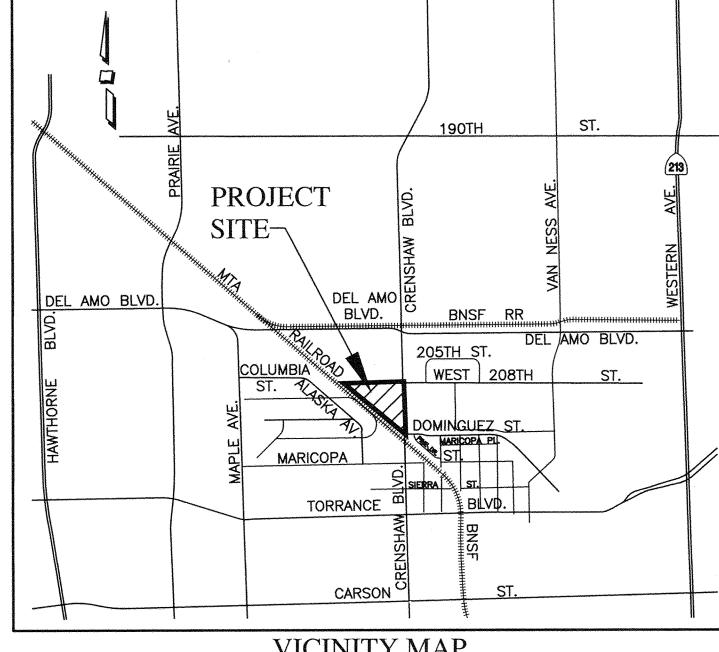
EMBILIO COMBILIONS	
<u>ITEM</u>	SYMBOL
EXISTING SEWER LINE EXISTING SEWER CLEANOUT EXISTING SEWER MANHOLE	SMHO OR SMHO
EXISTING WATER LINE EXISTING WATER METER EXISTING WATER VALVE	EXIST SIZE & MAT U WM O
EXISTING FIRE HYDRANT EXISTING STORM DRAIN LINE EXISTING STORM DRAIN INLET	SD EXIST SIZE & MAT
EXISTING POWER POLE EXISTING ELECTRIC OR UNDERGROUND EXISTING STREET LIGHT	(U/G) OR (O/H)
EXISTING STREET LIGHT EXISTING GAS LINE EXISTING TELEPHONE LINE	EXIST SIZE
EXISTING TELEPHONE PEDESTAL EXISTING CABLE TV LINE EXISTING PULL BOX	CATV ————————————————————————————————————
EXISTING SIGN EXISTING TREE/BUSH	\$ OO
EXISTING BOLLARD EXISTING FENCE	

NEW IMPROVEMENTS

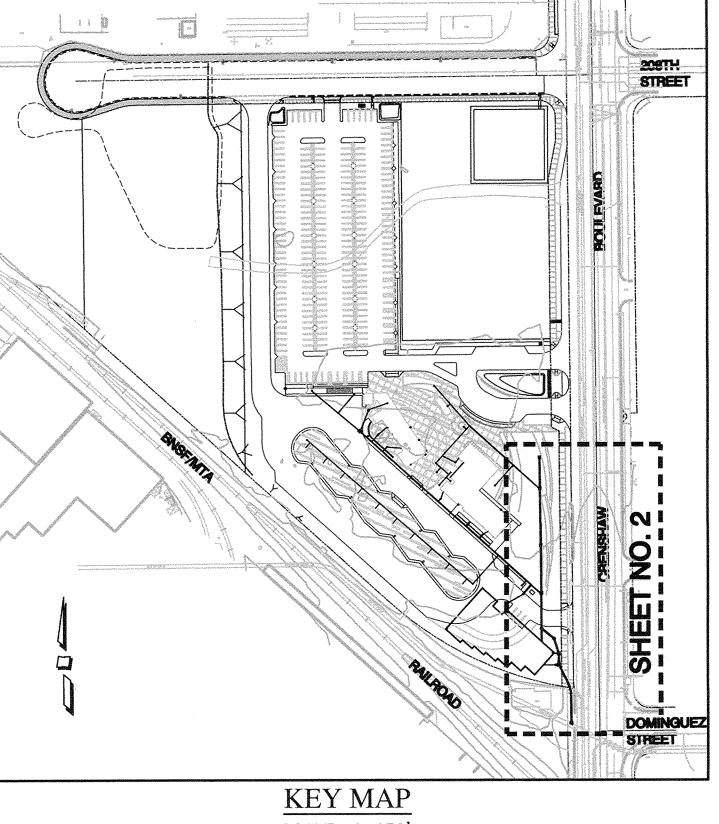
INEW INITIO VENIENT	S. Comments of the Comments of	
ITEM DESCRIPTION	STD DWG NO./DETAIL NO.	SYMBOL
BEDDING FOR STORM DRAIN (S	IZE/TYPE AS SHOWN)T302	
GRATING CATCH BASIN	SPPWC .3043	
STORM DRAIN MANHOLE	SPP.WC .321—1	0
STORM WATER BMP MANHOLE.	$\frac{2}{3}$	
WEIR MANHOLE	$\frac{1}{3}$	
UNDERGROUND DETENTION BAS		
SPPWC = STANDARD PLANS FO	OR PUBLIC WORKS CONSTRUCTION	
TRENCH BACKFILL & PAVEMEN	T REPAIRS T 116	

FLAP GATE

T 301



VICINITY MAP



SCALE: 1=150'

JUNCTION STRUCTURE

SPPWC 335-2

NO WORK SHALL BE DONE ON THIS ST LINTIL BELOW AGENCY IS NOTIFIED O INTENTION TO GRADE OR EXCAVATE. Know what's below.

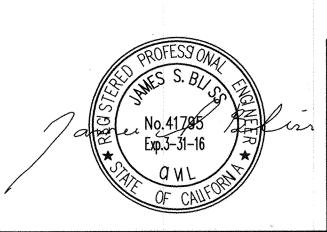
Call before you dig.

BENCHMARK

BENCH MARK: Y10874

DPW BM TAG IN E CB 1M(3.3FT) N/O BCR @ NE COR CRENSHAW BLVD & 208TH ST.

TORRANCE QUAD 2005 EL. 72.904 NOTE: ELEVATIONS SHOWN ON THIS PLAN EQUAL ELEVATIONS SHOWN ON SD-1003 PLUS 1.7'



3111 Camino Del Rio North, Suite 702 San Diego, CA 92108 (619) 961-2800 (619) 961-2392 fax www.psomas.com

BY CHECKE REV. DATE **DESCRIPTION**

