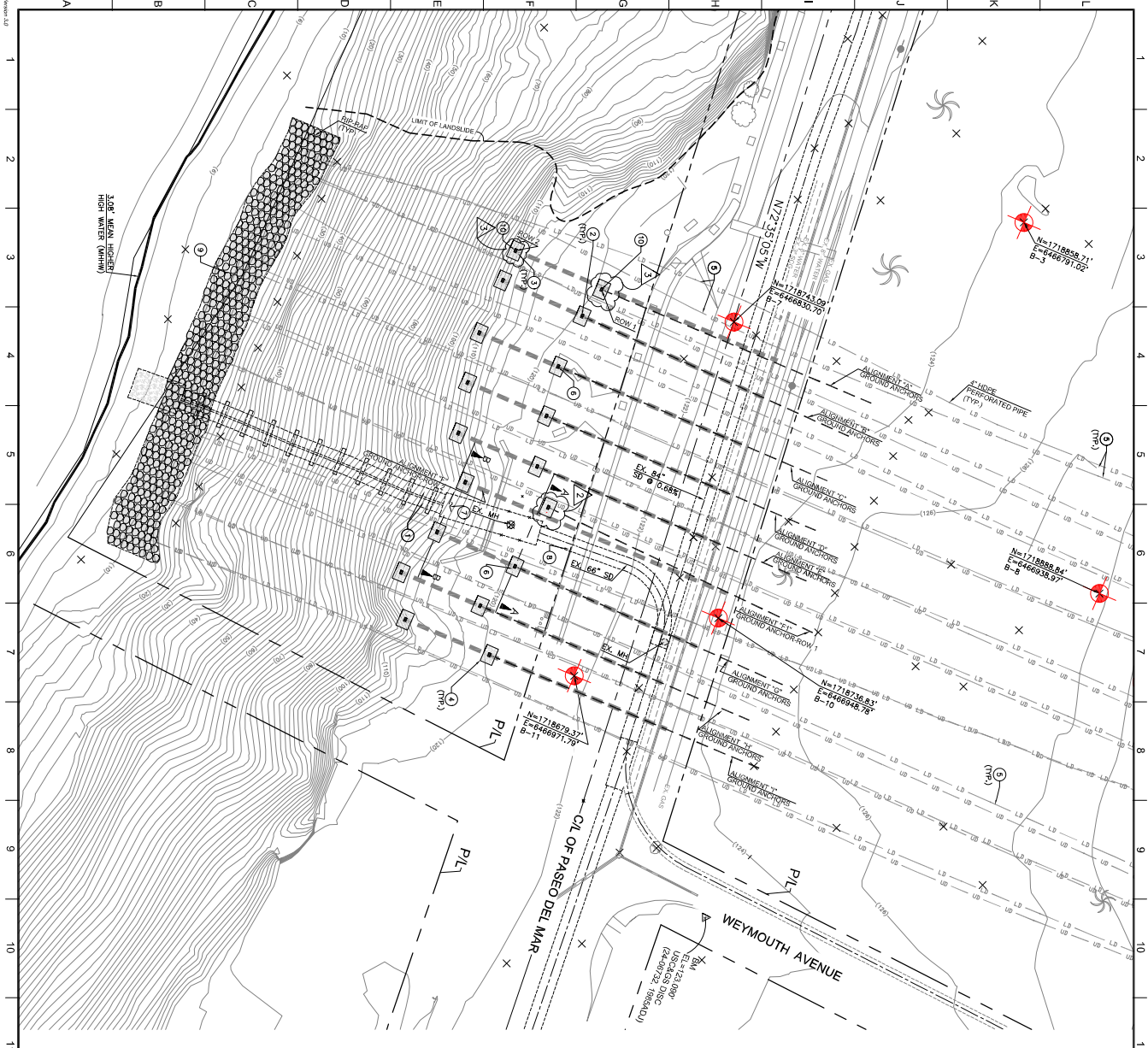
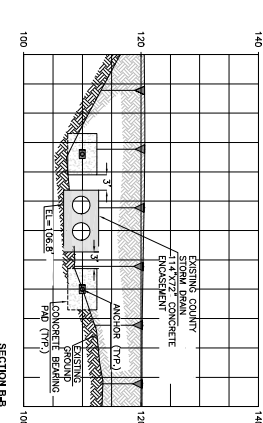
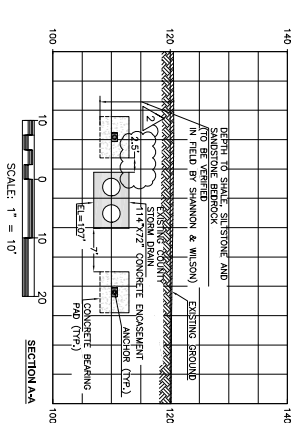


APPENDIX A
PLANS AND SPECIFICATIONS



- CONSTRUCTION NOTES:**
- PROTECT IN PLACE EXISTING (2) 36" STORM DRAIN PIPES HIDE SPR (STANDARD DIMENSION RATIO) 21. DETAIL DRAWINGS FROM COUNTY OF LOS ANGELES OF THE 36" STORM DRAIN PIPE ARE PRESENTED IN APPENDIX B OF THE ADDENDUM SLOPE ANCHOR DESIGN REPORT BY SHANNON AND WILSON, INC., DATE APRIL 5, 2013.
 - INSTALL ANCHORS, SEE PROFILES ON SHEET C-5.0.
 - INSTALL ANCHORS, SEE PROFILES ON SHEET C-5.0.
 - AND DETAIL 1 ON SHEET C-6.0.
 - EXCAVATE TEMPORARY PIT FOR GROUND ANCHOR INSTALLATION, SEE DETAIL 1 ON SHEET C-6.0.
 - EXISTING DEWATERING DRAIN 4" HDPE PERFORATED PIPES.
 - PROPOSED GROUND ANCHOR 4" HDPE PERFORATED PIPES AND INSTRUMENTED WITH DYWIDAG ELASTO-MAGNETIC SENSORS.
 - PROTECT IN PLACE EXISTING 114"X72" STORM DRAIN CONCRETE ENCASUREMENT, SEE NOTE 1 FOR REFERENCE TO DETAIL DRAWINGS.
 - PROTECT IN PLACE EXISTING 66" STORM DRAIN PIPE RCP. SEE NOTE 1 FOR REFERENCE TO DETAIL DRAWINGS.
 - RIP-RAP OR RENO MATTRESS SHOWN IS FOR INFORMATION ONLY AND NOT PART OF THIS CONTRACT. THE TWO WESTMOST ANCHORS SHALL BE A SEPARATE BID ITEM FOR OPTIONAL INSTALLATION AS SHOWN. THE CITY RESERVES THE RIGHT TO APPROVE, MODIFY, OR DECLINE FINAL DESIGN AND INSTALLATION OF THESE TWO ANCHORS AT THEIR DISCRETION.

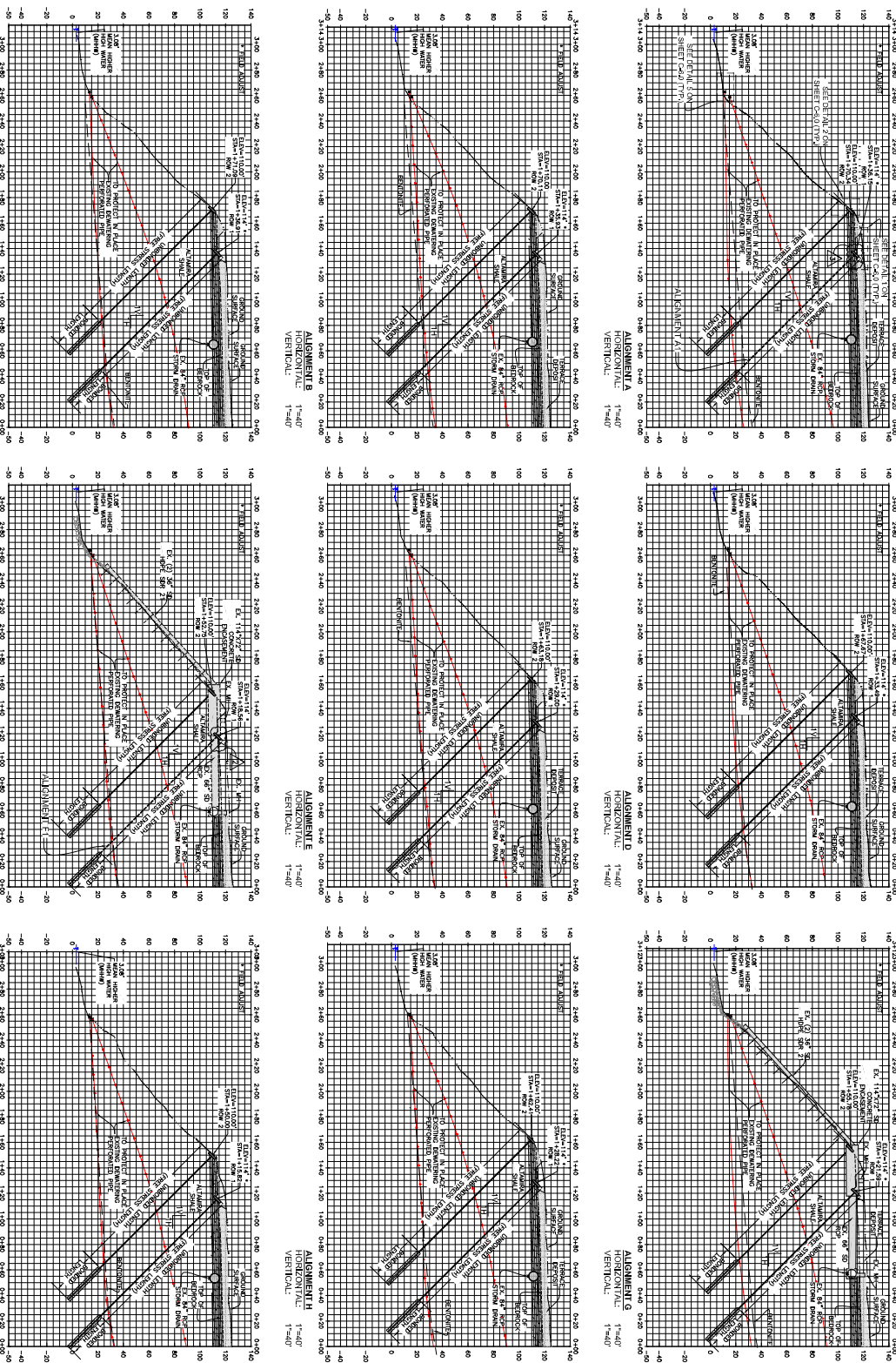
- LINE/TYPE LEGEND:**
- ANCHOR (ROW 1)
 - ANCHOR (ROW 2)
 - UPPER DRAIN PERFORATED PIPE
 - LOWER DRAIN PERFORATED PIPE
 - CENTERLINE OF PASEO DEL MAR
 - EXISTING CONDITIONS
 - RIGHT OF WAY LINE
 - STORM SEWER STRUCTURE
- LEGEND:**
- ABAND. ABANDONED
 - BM BENCHMARK
 - BORING BORING
 - C/L CENTERLINE
 - E. ELEVATION
 - EX. EXISTING
 - MH MANHOLE
 - P/L PROPERTY LINE
 - SD STORM DRAIN CONCRETE PIPE
 - HDPE HIGH DENSITY POLYETHYLENE
- SYMBOLS:**
- EX. PALM
 - EX. TREE
 - EX. POWER POLE
 - BORING/INCLINOMETER/PIEZOMETER
- NOTE 1:**
SEE PROFILES FROM ALIGNMENTS ON SHEET C-5.0



<p>11134 DEWINGHURST STREET • SUITE 200 • NORTHridge • CA • 91324-1481 818.992.6345 • FAX 818.408.6387 • info@wagnereng.com • www.wagnereng.com</p>	<p>CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING</p>										
	<p>VERTICAL CONTROL: FB 40731 PG 277-281, NGVD1929, 1985 ADJ HORIZONTAL CONTROL: FB 40731 PG 277-281</p>	<p>GARY LEE MOORE, P.E. CITY ENGINEER</p> <p>DESIGN GROUP: DATE: 01-13-14</p> <p>ENGINEER: STEPHANE WAGNER LIC. NO. C-049078 01-13-14</p> <p>DESIGNED BY: FELIX MIRANDA/DAVID BEJARANO 01-13-14</p> <p>DRAWN BY: DAVID BEJARANO 01-13-14</p> <p>CHECKED BY: FELIX MIRANDA 01-13-14</p> <p>APPROVED BY:</p>	<p>REVISIONS:</p> <table border="1"> <tr> <th>NO.</th> <th>REVISIONS</th> <th>DATE</th> </tr> <tr> <td>1</td> <td>RELOCATION OF PROPOSED ANCHOR F (ROW 1) AND ROW 2)</td> <td></td> </tr> <tr> <td>2</td> <td>RELOCATION OF PROPOSED ANCHOR A (ROW 1) AND ROW 2)</td> <td></td> </tr> </table> <p>INDEX NO. _____</p> <p>STRUCTURE NO. _____</p>	NO.	REVISIONS	DATE	1	RELOCATION OF PROPOSED ANCHOR F (ROW 1) AND ROW 2)		2	RELOCATION OF PROPOSED ANCHOR A (ROW 1) AND ROW 2)
NO.	REVISIONS	DATE									
1	RELOCATION OF PROPOSED ANCHOR F (ROW 1) AND ROW 2)										
2	RELOCATION OF PROPOSED ANCHOR A (ROW 1) AND ROW 2)										
<p>C-4.0</p> <p>PROJECT: GROUND ANCHORS</p> <p>ADDRESS: PASEO DEL MAR BETWEEN S. WEYMOUTH AVENUE AND 2,700 WEST OF S. WEYMOUTH AVENUE, LOS ANGELES, CA 90732</p>	<p>DATE: 01-13-14</p> <p>PROJECT: GROUND ANCHORS</p> <p>ADDRESS: PASEO DEL MAR BETWEEN S. WEYMOUTH AVENUE AND 2,700 WEST OF S. WEYMOUTH AVENUE, LOS ANGELES, CA 90732</p>	<p>LARRY ENGINEERING</p> <p>Service to the People, Preserving the Future</p>									

GROUND ANCHORS SUMMARY						
ROW	ANCHOR	LENGTH	DESIGN	LOCK-OFF	MAXIMUM TEST	
HEADLEV.		FREE BONDED TOTAL	LOAD(N/RS)	LOAD(N/RS)	LOAD(N/RS)	
1	VARIES	130	35' MIN, 185'	6" MIN	210	230
2	+110'	125	35' MIN, 180'	6" MIN	210	230

- NOTES:**
- ① ANCHOR HEAD ELEVATION AT POINT OF INTERSECTION BETWEEN CENTERLINE OF ANCHOR AND TOP OF CONCRETE BEARING PAD
 - ② LOCK-OFF LOAD IS APPROXIMATELY 10 PERCENT HIGHER THAN DESIGN LOAD TO ACCOUNT FOR JOINT LOSSES
 - ③ MINIMUM DIMENSION AND BONDED LENGTH OF GROUND ANCHORS SHALL BE AS SHOWN. STRUCTURE ENGINEER AND DESIGNER SHALL BE RESPONSIBLE FOR FINAL DESIGN OF GROUND ANCHORS.



CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

VERTICAL CONTROL: FB 40731 PG 277-281, NGVD1928, 1985 ADJ
 HORIZONTAL CONTROL: FB 40731 PG 277-281

SHEET TITLE: GROUND ANCHORS- PROFILES

PROJECT: GROUND ANCHORS

ADDRESS: PASEO DEL MAR BETWEEN S. WEYMOUTH AVENUE AND 2700 WEST OF S. WEYMOUTH AVENUE, LOS ANGELES, CA 90072

GARY LEE MOORE, P.E. CITY ENGINEER

DESIGN GROUP: DATE: 01-13-14

ENGINEER: STEPHANE WAGNER LIC. NO. C-046978 01-13-14

DESIGNED BY: FELIX MIRANDA/DAVID BEJARANO 01-13-14

DRAWN BY: DAVID BEJARANO 01-13-14

CHECKED BY: FELIX MIRANDA 01-13-14

APPROVED BY:



REVISIONS:

- ✓ NO. 1: RELOCATION OF PROPOSED ANCHOR F (ROW 1) AND ROW 2)
- ✓ NO. 2: RELOCATION OF PROPOSED ANCHOR A (ROW 1) AND ROW 2)

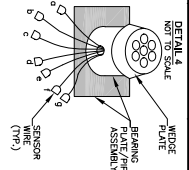
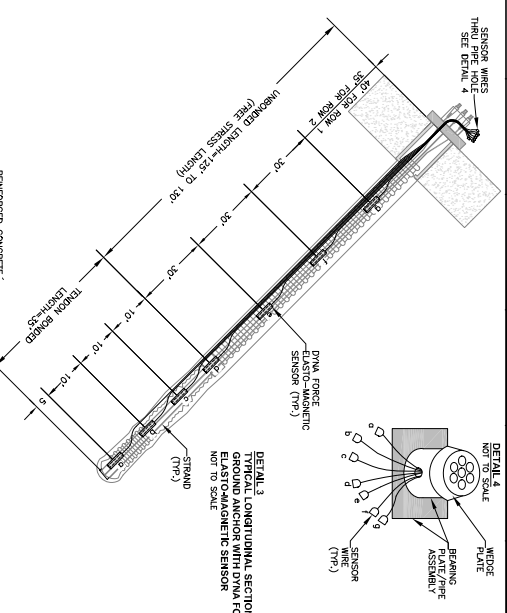
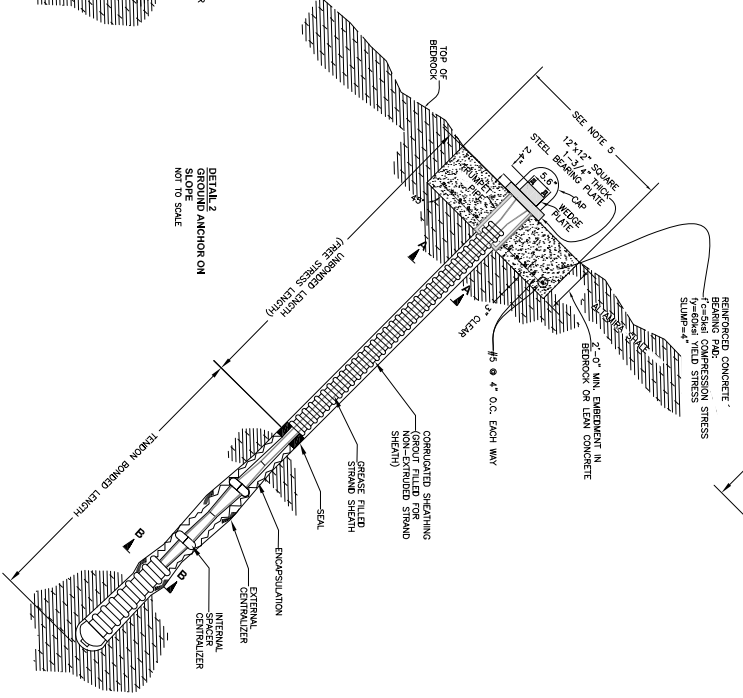
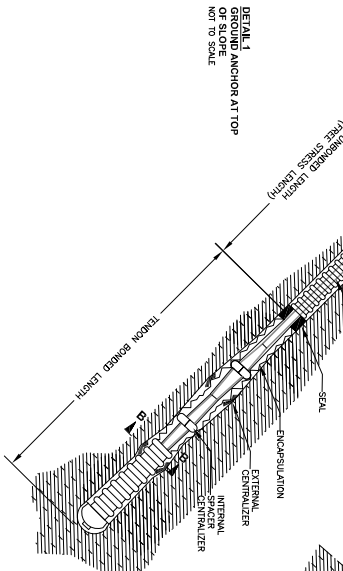
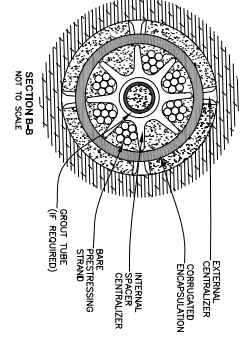
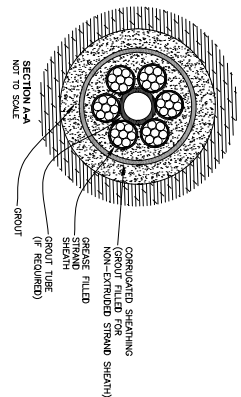
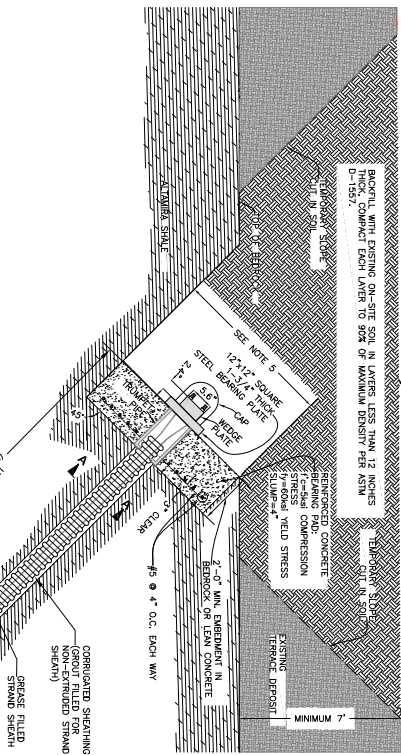
INDEX NO. _____

STRUCTURE NO. _____



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

- GROUND ANCHOR NOTES:**
1. USE CONCRETE TYPE (750-CSE-50009) FOR SEVERE EXPOSURE. SEE TABLE 201-1.1.3 (A) ON GREEN BOOK, EDITION 2012.
 2. SUBGRADE FOR BEARING PAU FOUNDATION SHALL BE FIELD OBSERVED AND APPROVED BY THE ENGINEER. THE BEARING PAU SHALL BE REINFORCED WITH 2 #5 @ 4" O.C. EACH WAY PER SQUARE FOOT FOR WEATHERED SHALE, SLISTONE OR SANDSTONE; 3 TONS PER SQUARE FOOT FOR WEATHERED SHALE, SLISTONE OR SANDSTONE; THE BEARING VALUE LESS THAN INDICATED ABOVE.
 3. DRAW FORCE ELASTO-MECHANIC SENSORS SHALL BE INSTALLED IN THE TEST GROUND ANCHORS WHERE THE LENGTH OF THE ANCHORS, ALL DIM FORCE ELASTO-MECHANIC SENSOR SHALL BE EQUAL TO THE LENGTH OF THE ANCHORS.
 4. THE EXISTING HORIZONTAL BEARING FRAMES, REINFORCEMENTS AND REINFORCEMENTS SHALL BE PROTECTED DURING THE GROUND ANCHOR INSTALLATION. THE LOCATIONS OF THESE EXISTING BEARINGS AND INSTRUMENTS ARE SHOWN ON DRAWING NO. C-4-10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THESE INSTRUMENTS IF COLLISION TO THE SUBSTRATE OF THE DRILL.
 5. USE 4"x8"x2" CONCRETE BEARING PAD FOR WEATHERED SHALE, SLISTONE OR SANDSTONE. USE 7"x7"x2" CONCRETE BEARING PAD FOR WEATHERED SHALE, SLISTONE OR SANDSTONE.
 6. KEEP ALL WEDGE PLATES SHALL BE ELECTRO-FINE COATED PER ASTM B633. ALL BEARING PLATES OR PROTECTIVE COATINGS SHALL BE EITHER HOT DIP GALVANIZED PER ASTM A123 OR PROTECTIVE COATINGS SHALL BE EITHER HOT DIP GALVANIZED PER ASTM A123.
 7. REINFORCING STEEL, AND CONCRETE FOR THE CONCRETE BEARING PADS, SHALL BE INSPECTED BY THE ENGINEER.
 8. AFTER THE ANCHOR PERFORMANCE TEST IS COMPLETED AND THE ANCHOR IS ACCEPTED, THE CONTRACTOR SHALL PROVIDE PERMANENT ACCESS FOR THE ENGINEER TO CONNECT THE INSTRUMENTATION FOR MONITORING OF THE ANCHOR.



WAGNER ENGINEERING & SURVEY, INC.
1613 PLUTONIA STREET SUITE 100 NORTHWOOD CA 91343-4502
TEL: 818.772.6267 FAX: 818.772.6272 www.wagnereng.com

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS

VERTICAL CONTROL: FB 40731 PG 277-281, NGVD1929, 1985 ADJ
HORIZONTAL CONTROL: FB 40731 PG 277-281

SHEET TITLE: **DETAILS**

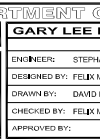
PROJECT: **GROUND ANCHORS**

ADDRESS: PASECO DEL MAR BETWEEN S. WEYMOUTH AVENUE AND 2700 WEST OF S. WEYMOUTH AVENUE, LOS ANGELES, CA 90032

DATE: 05-07-13
DESIGNED BY: FELIX MIRANDA/DAVID BEJARANO
DRAWN BY: DAVID BEJARANO
CHECKED BY: FELIX MIRANDA
APPROVED BY:

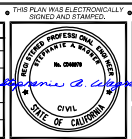
GARY LEE MOORE, P.E. CITY ENGINEER

DESIGN GROUP: DATE:
ENGINEER: STEPHANE WAGNER LIC. NO. C-466978 05-07-13
DESIGNED BY: FELIX MIRANDA/DAVID BEJARANO 05-07-13
DRAWN BY: DAVID BEJARANO 05-07-13
CHECKED BY: FELIX MIRANDA 05-07-13



REVISIONS:

NO.	REVISIONS	DATE	BY



INDEX NO. _____

STRUCTURE NO. _____

DATE: _____



16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1