

**APPENDIX A**

**STORM DRAIN REALIGNMENT DRAWINGS  
BY THE COUNTY OF LOS ANGELES  
DEPARTMENT OF PUBLIC WORKS**

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**TABLE OF CONTENTS**

**FIGURES**

Storm Drain Realignment - Plan and Profile (Sheet 1 of 2)  
Storm Drain Realignment – Structural Notes (Sheet 2 of 2)



STRUCTURAL NOTES

1. DIMENSIONS FROM FACE OF CONCRETE TO STEEL ARE TO CENTER OF BAR, UNLESS OTHERWISE SHOWN.
2. CONCRETE DIMENSIONS SHALL BE MEASURED HORIZONTALLY OR VERTICALLY ON THE PROFILE, AND PARALLEL TO OR AT RIGHT ANGLES (OR RADially) TO CENTER LINE OF CONSTRUCTION OF THE PLAN EXCEPT AS OTHERWISE SHOWN.
3. ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", LATEST EDITION.
4. TRANSVERSE CONSTRUCTION JOINTS IN WALLS AND SLABS SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED. TRANSVERSE CONSTRUCTION JOINTS SHALL BE NORMAL OR RADIAL TO THE CENTERLINE OF CONSTRUCTION.
5. THE TRANSVERSE REINFORCING STEEL SHALL TERMINATE ONE AND ONE-HALF INCHES FROM THE CONCRETE SURFACES UNLESS OTHERWISE SHOWN ON THE STRUCTURAL DETAILS.
6. EXPOSED EDGES OF CONCRETE MEMBERS SHALL BE ROUNDED OR BEVELED.
7. NO SPLICES IN TRANSVERSE STEEL REINFORCEMENT WILL BE PERMITTED OTHER THAN SHOWN ON THE DRAWINGS WITHOUT APPROVAL OF THE ENGINEER. NO MORE THAN TWO SPLICES WILL BE PERMITTED IN ANY LONGITUDINAL BAR BETWEEN TRANSVERSE JOINTS. SPLICES SHALL BE STAGGERED.
8. LONGITUDINAL STEEL SHALL BE LAPPED 20 BAR DIAMETERS AT SPLICES. TRANSVERSE STEEL SHALL BE LAPPED 30 BAR DIAMETERS AT SPLICES.
9. LONGITUDINAL STEEL SHALL BE CONTINUOUS AND EXTENDED THROUGH ALL CONSTRUCTION JOINTS.
10. AT THE BEGINNING AND ENDING OF ALL POURS, A COMPLETE CURTAIN OF MAIN REINFORCEMENT SHALL BE PLACED THREE INCHES FROM THE TRANSVERSE CONSTRUCTION JOINTS.
11. ALL TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED WITH CONTINUOUS WATERSTOP.
12. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, TRANSVERSE CONSTRUCTION JOINTS (IN BOTH SLABS AND WALLS), SHALL BE PLACED AT THE END OF EACH POUR, BUT THE SPACING THEREOF SHALL NOT EXCEED 50 FEET NOR BE LESS THAN 10 FEET.
13. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A 615 GRADE 60
14. STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH ASTM A 36.

STRUCTURAL DESIGN CRITERIA

L.A.C.F.C.D. STRUCTURAL DESIGN MANUAL DATED APRIL 1982

LIVE LOAD  
HS 20-44

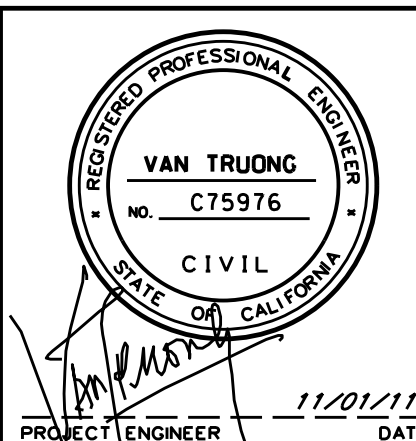
DEAD LOADS  
Internal (Debris) 90.0 p.s.f. (E.F.P.)  
External 36.0 p.s.f. (E.F.P.)

ALLOWABLE STRESSES  
f'c = 4000 psi @ 28 days (Retaining Wall)  
fc = 1800 psi  
fs = 24,000 psi  
n = 8 Shear and bond stresses per A.C.I. LATEST EDITION  
Foundation modulus k = 165 p.c.i.

DATE	REVIEWED BY	CADD PROJECT FILE NAME	CHECKER	DESIGNER	DRAFTER
		im009177.dgn	A. ZANDJEH	V. TRUONG	V. TRUONG

APPROVED IN CONCEPT

DATE	MK	DESCRIPTION



COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS			
PASEO DEL MAR PROJECT NO. 655			
STORM DRAIN REALIGNMENT II STRUCTURAL NOTES			
PROJECT ENGINEER	DATE 11/01/11	PROJ. ID	PCA
DWG	SHEET 2 OF 2		