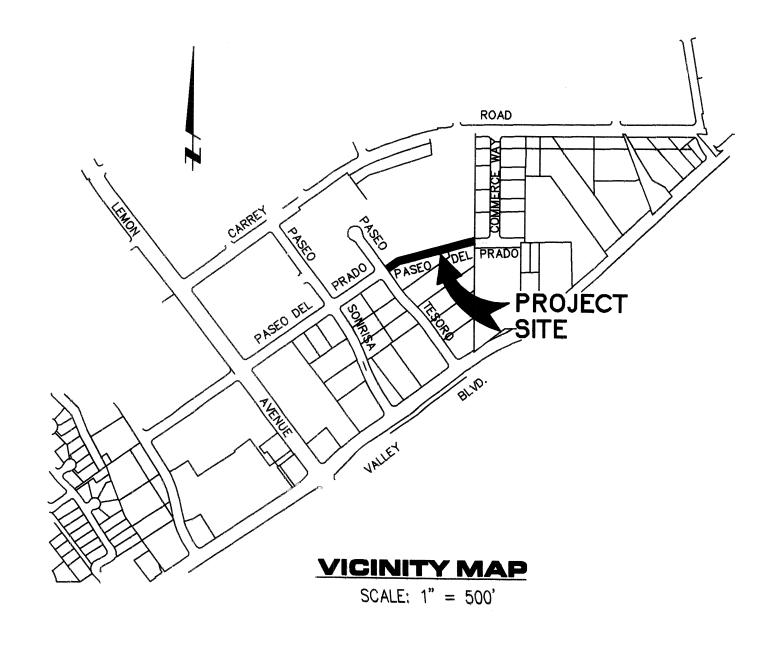
PROJECT SITE

T.G. PAGE NO. 679, F-1

LOCATION MAP

CITY OF WALNUT STORM DRAIN IMPROVEMENTS PASEO DEL PRADO MTD 1557



BENCH MARK:

ELEV.=527.735

REVISION

REVISED BY

APPROVED BY

NO. 46624

EXP. 6/30/99

L & BR IN E'LY. CURB PASEO TESORO 300 M.M.

NORTH OF B.C.R., 7.3 M. EAST OF CENTERLINE &

23.8 M. NORTH OF CENTERLINE VALLEY BLVD.

CG 4913

LIST OF STANDARD DRAWINGS

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

DWG. NO. **MISCELLANEOUS**

LACDPW 3090-0

LACDPW 3091-0

LACDPW 3093-0

LACDPW 3053-0 LACDPW 3080-1

Reinforced Concrete Box Culvert Shoring for Excavations Sample Sheet

Soil Classification System

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

<u>DWG. NO.</u>

DESCRIPTION

MISCELLANEOUS

LACFCD 2-D264 LACFCD 2-D157

LACFCD 2-D264

Standard A-615 Reinforcing Bars Adjustable Protection Bar Stirrup Catch Basin Reinforcent for Round Manholes

Adjustable Protection Bar Stirrup AMERICAN PUBLIC WORKS ASSOCIATION

STD. PLAN

TITLE

CATCH BASIN, INLETS, AND APPURTENANCES APWA 300-1

APWA APWA APWA Manhole Frame and Cover Protection Bar Reinforcement APWA Connections for Pipes 12 Inches Through 72 Inches

Local Depressions at Catch Basins

MANHOLES

Manhole No. 3 (Concrete Box) Manhole Shaft

APWA 324-0 MISCELLANEOUS

APWA 323-0

224-0 635-1 630-1 225-0 334-0 636-0 341-0 Pipe Support Across Trenches Standard Drop Step APWA APWA Frame and Cover APWA Blanket Protection for Pipes APWA Junction Structure No. 3 Polypropylene Plastic Step APWA Transition Structure No. Transition Structure No. APWA

IMPORTANT NOTICE

Section 4216/4217 of the Government Code requires a Dig Alert Identification Number be issued before a "Permit to Excavate" will be valid. For your Dig Alert I.D. Number call Underground Service Alert TOLL FREE 1-800-422-4133 Two working days before you dig.

CA001 - DEWATERING OPERATIONS CA002 - PAVING OPERATIONS CA003 - STRUCTURE CONSTRUCTION AND PAINTING CA010 - MATERIAL DELIVERY AND STORAGE CA012 - SPILL PREVENTION AND CONTROL CA020 - SOLID WASTE MANAGEMENT CA021 - HAZARDOUS WASTE MANAGEMENT CA023 - CONCRETE WASTE MANAGEMENT CA030 - VEHICLE AND EQUIPMENT CLEANING CA031 - VEHICLE AND EQUIPMENT FUELING CA032 - VEHICLE AND EQUIPMENT MAINTENANCE CA040 - EMPLOYEE/SUBCONTRACTOR TRAINING ESC01 - SCHEDULING ESC02 - PRESERVATION OF EXISTING VEGETATION ESC10 - SEEDING AND PLANTING ESC11 - MULCHING ESC20 - GEOTEXTILES AND MATS ESC21 - DUST CONTROLS ESC22 - TEMPORARY STREAM CROSSING ESC23 - CONSTRUCTION ROAD STABILIZATION ESC24 - STABILIZED CONSTRUCTION ENTRANCE ESC30 - EARTH DIKE ESC31 - TEMPORARY DRAINS AND SWALES ESC32 - SLOPE DRAIN ESC40 - OUTLET PROTECTION ESC41 - CHECK DAMS ESC50 - SILT FENCE ESC51 - STRAW BALE BARRIERS

ESC54 - STORM DRAIN INLET PROTECTION

ESC52 - SAND BAG BARRIER ESC53 - BRUSH OR ROCK FILTER

APPROVED:

BY: Lincold Klange 3-4-98
CITY ENGINEER DATE

INDEX TO PROJECT DRAWINGS

SHEET NO. DESCRIPTION TITLE SHEET GENERAL NOTES, WATER QUALITY NOTES, DETAILS

PLAN AND PROFILE

STORMWATER POLLUTION CONTROL REQUIREMENTS FOR STORM DRAIN CONSTRUCTION

- 1. Eroded sediments and other pollutants must be retained on site and may not be transported from the site via sheet flow, swales, area drains, natural drainage courses, or wind.
- 2. Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
- Fuels, oils, solvents, and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.
- 4. Excess or waste concrete may not be washed into the public way or any other drainage system.

 Provisions shall be made to retain concrete wastes on site until they can be disposed of as solid waste.
- 5. Trash and construction—related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.
- Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the public way. Accidental depositions must be swept up immediately and may not be washed down by rain or other
- 7. Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by
- The following BMPs as outlined in, but not limited to, the Best Management Practice Handbook, California Stormwater Quality Task Force, Sacramento, California 1993, or the latest revised edition, may apply during construction (additional measures may be required if deemed appropriate by inspector):

CONSTRUCTION NOTES & QUANTITY ESTIMATE

1	CONSTRUCT SINGLE CONCRETE BOX CULVERT SIZE 6'-0"W X 4'-0"H PER L.A.C.D.P.W. STD. 3053-0,	464 5
2	CONSTRUCT TRANSITION STRUCTURE NO. 2 PER A.P.W.A. STD. 341-0.	4 F4
3	CONSTRUCT TRANSITION STRUCTURE NO. 1 PER A.P.W.A. STD. 342-0.	1 ŁA.
4	CONSTRUCT JUNCTION STRUCTURE NO. 3 PER A.P.W.A. STD. 334-0.	1 EA.
(5)	CONSTRUCT 21" R.C.P 2000D.	3 EA.
6	CONSTRUCT 04TOU PAGE (WEEK)	— 42 L.F.
7	CONSTRUCT CATCH BASIN (WIDTH =7') PER A.P.W.A. STD. 300-0.	50 L.F.
8	CONSTRUCT MANHOLE NO. 3 PER A.P.W.A. STD. 323-0.	2 tA.
9	REMOVE EXISTING INLET STRUCTURE (INCLUDING HEADWALL, WINGWALL, ENTRY SLAB, TRASH RACK AND FENCING).	
10	CONSTRUCT LOCAL DEPRESSION, CASE E PER A.P.W.A. STD. 313-0.	L.S.
11)	CONSTRUCT BLANKET PROTECTION PER A.P.W.A. STD. 225-0.	

PRIVATE ENGINEERS NOTICE TO CONTRACTORS

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING.

3/4/98 REGISTERED CIVIL ENGINEER NO. 46624

> STORM DRAIN PLANS IN MTD 1557

CITY OF WALNUT PLAN PREPARED BY: Civil Engineers Inc.
398 S. Lemon Creek Drive, Suite E Walnut, California 91789 (909) 594-9702 (818) 331-8323 Fax (909) 594-2658

DATE 178542SD.DWG 1/16/98

SHEET 1 OF 3

GENERAL NOTES:

- A permit shall be obtained and all fees and deposits for construction inspection shall be paid to the Department of Public Works at the Permit Counter, 900 South Fremont Avenue, 8th Floor, prior to starting work under this contract. Also, all other required permits, such as Road Excavation Permits, must be obtained prior to starting work.
- 2. The contractor shall contact the District Office listed on the "Application for Storm Drain Construction Inspection Form I" to arrange for an acceptable construction start date.
- 3. Approval of this plan by the County of Los Angeles does not constitute a representation to the accuracy of the location, or the existence or nonexistence of any underground utility, pipe or structure within the limits of this project. This note applies to all sheets.
- 4. All work shall be in accordance with the latest adopted edition of the "Standard Specifications for Public Works Construction," including supplements, and shall be prosecuted only in the presence of the Director of Public Works/City Engineer.
- 5. The contractor's attention is directed to Section 7—10.4.1 of the Standard Specifications for Public Works Construction in regard to safety orders.
- 6. Elevations are in feet above U.S.C. & G.S. Mean Sea Level Datum of 1929, unless otherwise indicated.
- 7. No concrete shall be placed until the forms and reinforcing steel have been placed, inspected and approved.
- 8. All structural concrete shall be Portland cement concrete with an ultimate 28 day compressive strength of 3250 psi unless otherwise noted.
- 9. Transverse reinforcement and transverse joints shall be placed at right angles (or radial) to the conduit centerline except as otherwise shown on the drawings.
- 10. All steel adjacent to face of concrete shall have a 2-1/2-inch clearance unless otherwise specified.
- 11. Reinforcement shall be deformed bars of intermediate grade steel, per ASTM A-615-Grade 60.
- 12. All bar bends and hooks shall conform to the American Concrete Institute "Manual of Standard practice."
- 13. Dimensions from face of concrete to steel are to centerline of steel unless otherwise noted.
- 14. All steel that is to be continuous shall have a minimum lap of 30 bar diameters or 18 inches, whichever is greater.
- 15. All construction joints in the footing or slabs and walls shall be in the same plane. No staggering of joints will be permitted.
- 16. All exposed edges shall be finished with a 3/4-inch chamfer.
- 17. Unless otherwise shown, concrete dimensions shall be measured vertically or horizontally and parallel or at right angles (or radial) to the center line of construction.
- 18. Concrete backfill is required when the pipe has less than one foot of cover. The concrete backfill shall consist of 1:3:5 mix, Portland cement concrete poured from wall to wall of trench and from bottom of trench to a minimum of 4 inches over the top of the pipe.
- 19. All pipes shall be placed in trench in natural ground and/or compacted fill. The ground level before the trenching shall be at least 3 feet above the top of the pipe elevation, or at finish surface elevation, whichever is less.
- 20. All backfill and fills outside of street right of way shall be compacted to 90 percent of maximum density as determined by ASTM Soil Compaction Test D 1557—78 Method "D" unless otherwise specified. This shall be certified by a geotechnical engineer. This certification shall be submitted to the City Engineer prior to acceptance of the work by the County.
- 21. All backfill and fills within street rights of way shall be compacted in accordance with City requirements unless otherwise noted and inspected by the City. The soil compaction shall be certified by a geotechnical engineer.
- 22. Pipe bedding shall be:

In accordance with Los Angeles County Department of Public Works Standard Plan No. 3092 unless otherwise noted.

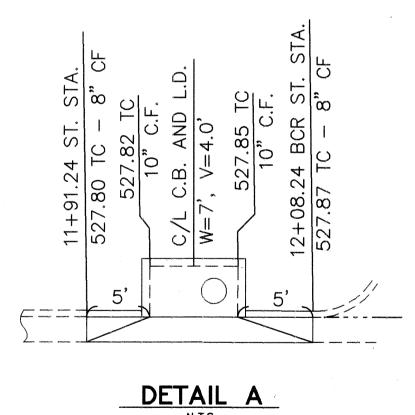
OF

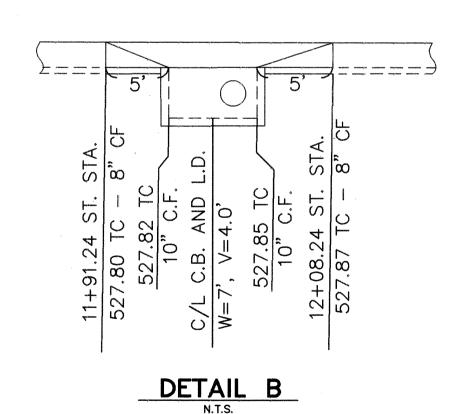
According to Standard Plan No. 3080, Case III, except bell and spigot pipe which shall be Case II bedding, unless otherwise shown. "W" values shall be as specified on Standard Plan No. 3080 for Case III bedding, Notes 3 (a), 3 (b), and 3 (c). If the "W": value at the tip of the pipe is exceeded, the bedding shall be modified, and/or pipe of additional strength shall be provided. The proposed modification shall be approved by the Department.

- 23. Pipe shall be embedded 5 inches into all structures including inlet and head walls, unless otherwise specified.
- 24. "Unless otherwise specified in the profile on these plans, the pipe shall be manufactured with a minimum concrete cover over the steel in the invert of 0.75 inches for RCP up to 96 inches in diameter and 1.25 inches for pipe greater than 96 inches in diameter."
- 25. All catch basins within the dedicated street right of way shall be constructed per Standard Plans for Public Works Construction.
- 26. The contractor shall provide to the satisfaction of the City Engineer and the Director of Public Works a drainage system for contributory flows to be operable at all times until this storm drain system is accepted for maintenance. The design of the drainage system must be prepared under the direction of a Civil Engineer.

- 27. All references on this plan to the County Engineer, Road Department, or Flood Control District shall apply to the appropriate elements of the Department of Public Works.
- 28. Existing utilities shall be maintained in place by the contractor, unless otherwise noted.
- 29. Where the utilities are indicated on the Drawings to be supported, said supports shall be in accordance with Standard Plans for Public Works Construction No. 224 unless otherwise indicated.
- 30. All openings resulting from the cutting or partial removal of existing culverts, pipes or similar structures shall be sealed with 8 inches of Brick and Mortar or 6 inches of concrete, unless otherwise shown.
- 31. Manholes Nos. 1, 2, 3, and 4, shall use the Standard Plans for Public Works Construction No. 630 for the "Frame and Cover" and No. 635 for the "Standard Drop Step."
- 32. This storm drain will not be field accepted until the streets have been paved, manholes brought to grade, and the system cleaned to the satisfaction of the Director of Public Works.
- 33. A NPDES Permit from the Regional Water Quality Control Board is required before any discharge of non-storm water into the storm drain is allowed.
- 34. The latest revised standard plan or drawing shall be used unless otherwise noted.

HYDRAULIC ELEMENT TABLE									
INE	PIPE R		SECTION	Q ₂₅ (cfs)	VELOCITY				
A	FROM STA. 0+00.00	TO STA. 0+16.00	4' W × 4.5' H	196.9	11.09				
	0+16.00	0+44.56	6' W x 4' H						
A			the same of the sa	196.9	21.86				
Α	0+44.56	3+02.56	6' W x 4' H	194.5	8.19				
Α	3+02.56	5+05.75	6' W x 4' H	187.1	7.88				
·									
A-1	0+00.00	0+47.25	21"	7.4	3.08				
		, and the same of							
					,				





							IN PLANS IN 1557
NO.	REVISION	REVISED BY	APPROVED BY	DATE	OROFESS/OA	CITY OF	WALNUT
	,				G. GILBERY	PLAN PREPARED BY:	
					NO. 46624 EXP. 6/30/99	RKA	
					OF CALIFORNIA	Civil Engineers Inc., 398 S. Lemon Creek Drive, Suite E Walnut, California 91789 (909) 594-9702 (818) 331-8323 Fax (909) 594-2658	
					DAVID G. GILBERTSON DATE	178542SD.DWG 1/16/98	SHEET 2 OF 3

188 8

