

PRIVATE DRAIN 446
PLANS FOR STORM DRAINS IN
TRACT 27883

PREPARED IN THE OFFICES OF
JENNINGS-HALDERMAN-HOOD
1833 East Seventeenth Street
Santa Ana, California
Suite 200, 547-4155
By *Clifford C. Hood* R.C.E.N. 12489
Clifford C. Hood

GENERAL NOTES:

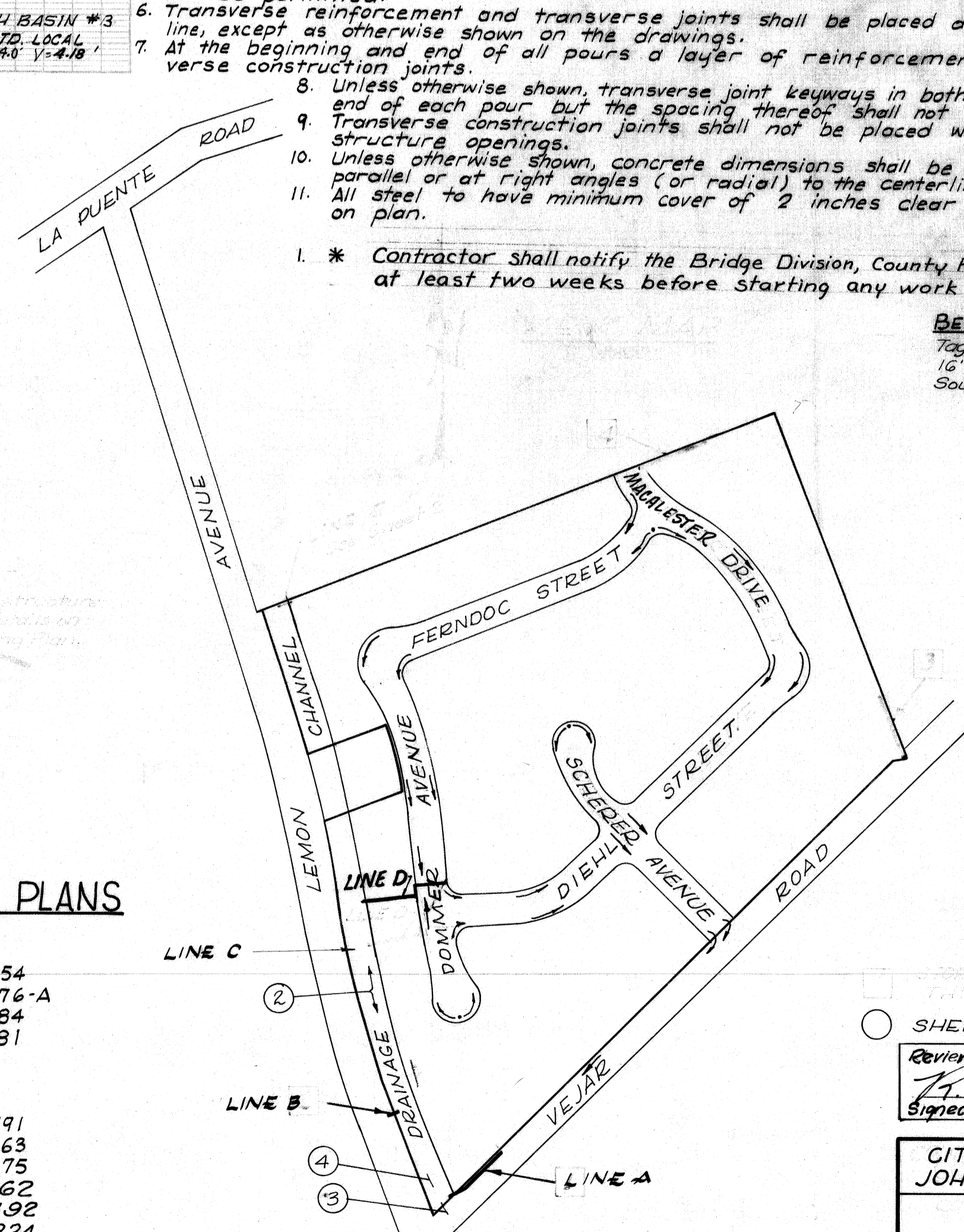
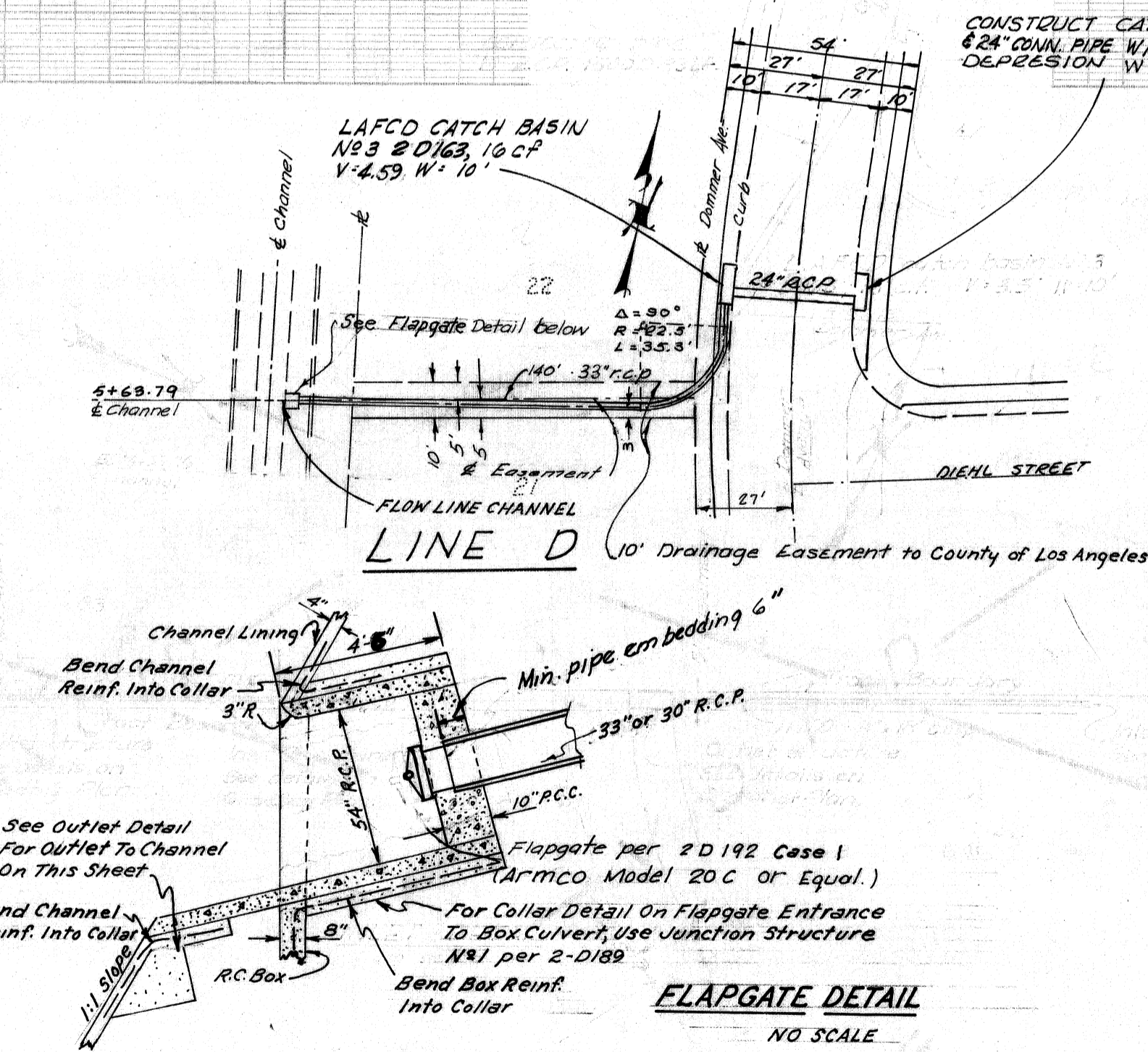
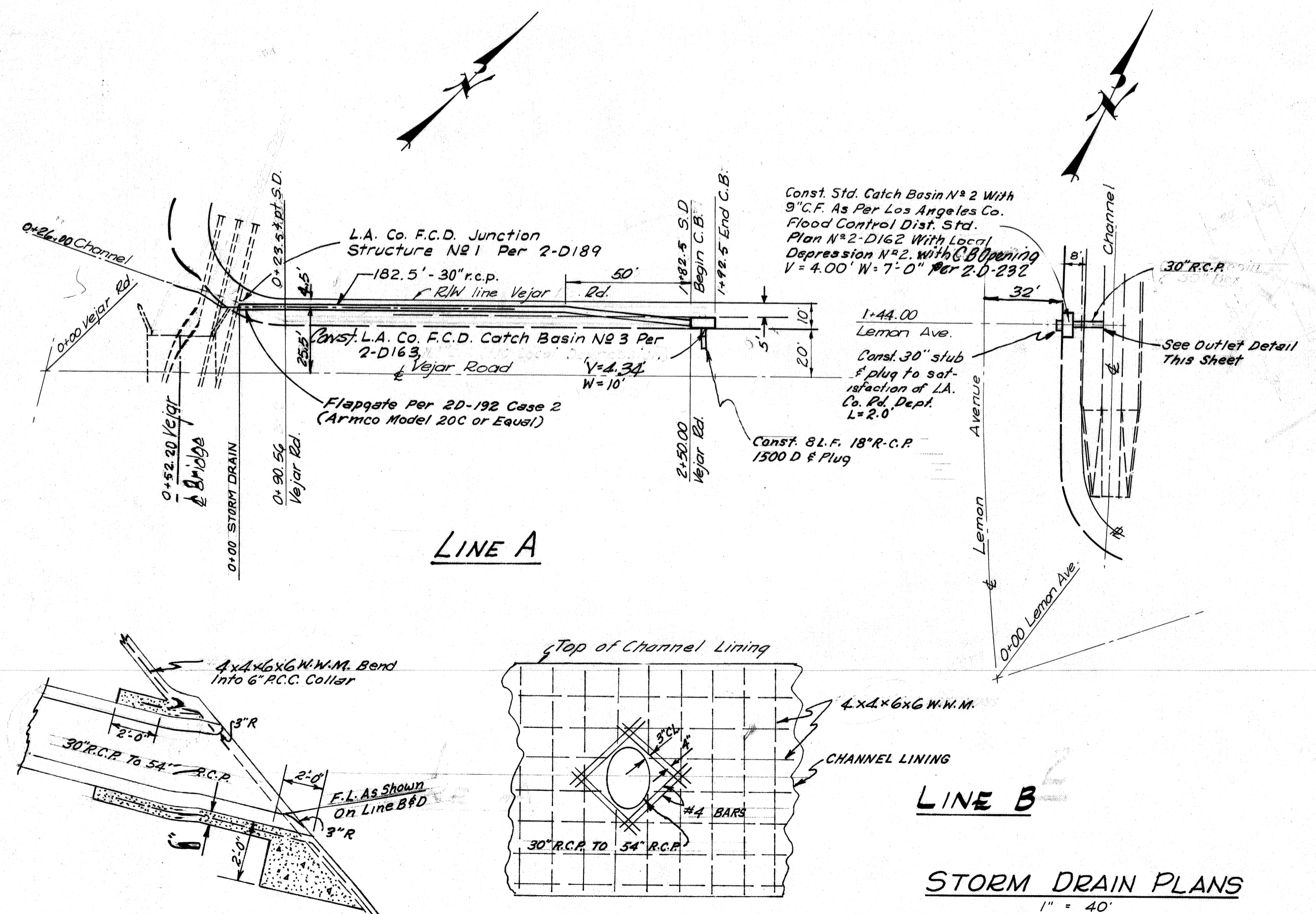
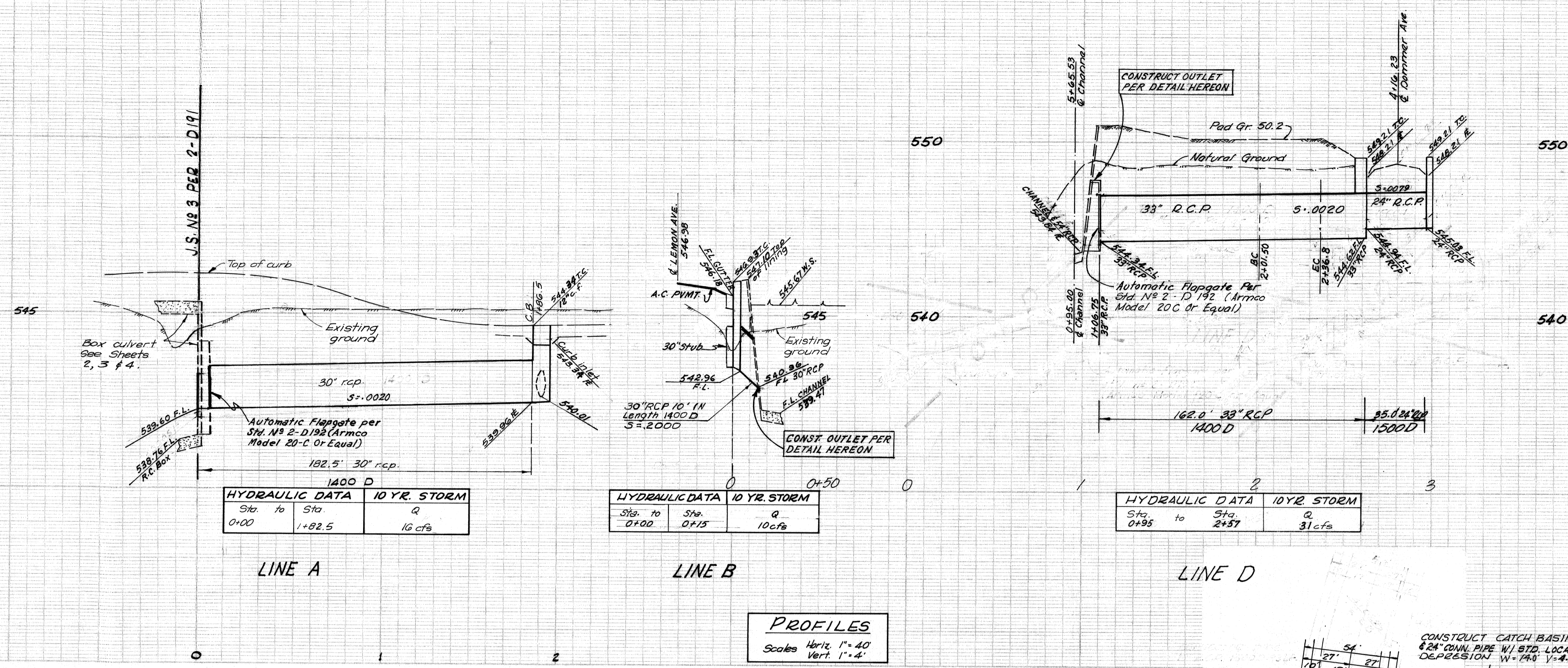
- Elevations are in feet above U.S.G.S. mean sea level datum of 1929.
All work shall be in accordance with standard and specifications for storm drain construction of the city engineer and shall be prosecuted only in the presence of the city engineer.
Approval of this plan by the City of Walnut does not constitute a representation as to the accuracy of the location of or the existence or nonexistence of any underground utility, pipe, or structure within the limits of this project. This note applies to all sheets.
- All R.C.P. pipe shall be bedded in accordance with case Ad bedding, DC-54 unless otherwise specified.
The Contractor shall notify the Construction Division by telephone, MADison 9-4747, Extension 8155, at least 24 hours before starting any work under this contract.
- This storm drain will not be accepted for maintenance until the streets have been paved, manholes brought up to grade, and the system is cleaned to the satisfaction of the city engineer.
All catch basins (and connector pipes between catch basins) to be inspected by the County Road Department.
Where pipe is to be placed in fill, the fill shall be compacted to a minimum depth of 3 feet above the top of pipe prior to trenching.
- All backfill and fill around closed conduits in street rights of way shall be brought up to the subgrade of the road or to 2 feet above the top of the conduit, whichever is less. The Road Department shall inspect all backfill and fill above the aforementioned limits. Application for an engineer or inspector in connection with the work shall be made by the contractor at least 24 hours before his service is required. Call Capital 5-1677, Extension 7500-4.
A permit shall be obtained from the Road Department () and shall be submitted to the inspector prior to commencing construction within their right(s) of way.
All state and local trench safety orders will be rigidly enforced.
- Chamfer all exposed edges with 3/4 inch chamfers.
Dimensions are from face of concrete to center of reinforcing bars unless otherwise specified.
All steel to be continuous around with a minimum lap of 30 diameters.

STRUCTURAL AND CONCRETE NOTES:

- All concrete will be designed to develop a 28-day strength of at least 3,000 pounds per square inch in compression.
- Use Standard Plan Dc-71 for steel assembly for double reinforced concrete boxes.
- No concrete shall be placed until the forms and the reinforcing steel has been placed, inspected and approved.
- All bar bends and hooks shall conform to the American Concrete Institute Manual of Standard Practice.
- All construction joints in the footings or slabs and walls shall be in the same place. No staggering of joints will be permitted.
- Transverse reinforcement and transverse joints shall be placed at right angles (or radial) to conduit centerline, except as otherwise shown on the drawings.
- At the beginning and end of all pours a layer of reinforcement shall be placed within 3 inches of the transverse construction joints.
- Unless otherwise shown, transverse joint keyways in both slabs and walls shall be placed at the end of each pour, but the spacing thereof shall not exceed 30 feet nor be less than 10 feet.
- Transverse construction joints shall not be placed within 30 inches of manhole or junction structure openings.
- Unless otherwise shown, concrete dimensions shall be measured vertically or horizontally and parallel or at right angles (or radial) to the centerline of construction.
- All steel to have minimum cover of 2 inches clear from face of wall unless otherwise noted on plan.

* Contractor shall notify the Bridge Division, County Road Dept. by Tel. CA-5-1677, Ext. 75024 at least two weeks before starting any work under this contract.

BENCH MARK 961783 ELEV 546.715, 1560 ADI
Tag in Northernly concrete abutment of Bridge No. 1000,
16' Westerly of the E. of Lemon Avenue and 110'
Southerly of the E. of Vejar Road.



STANDARD DRAWINGS TO BE USED WITH THESE PLANS

L.A. COUNTY ENGINEER'S OFFICE

STANDARD METHODS OF PIPE BEDDING	DC-54
FENCING FOR CHANNELS & RIGHTS-OF-WAY	DC-76-A
FENCING ADJACENT TO HIGHWAY RIGHTS-OF-WAY	DC-84
TRAPEZOIDAL CHANNEL INLET & OUTLET PROTECTION	DC-81

L.A. COUNTY FLOOD CONTROL DISTRICT

JUNCTION STRUCTURE NO 3	2-D191
CATCH BASIN NO 3	2-D163
PROTECTION BAR	2-D175
CATCH BASIN NO 2	2-D162
AUTOMATIC FLAP GATE	2-D192
CONNECTION TO CATCH BASIN	2-D224

STATE OF CALIFORNIA DIVISION OF HWYS.
CULVERT HEADWALL DB4

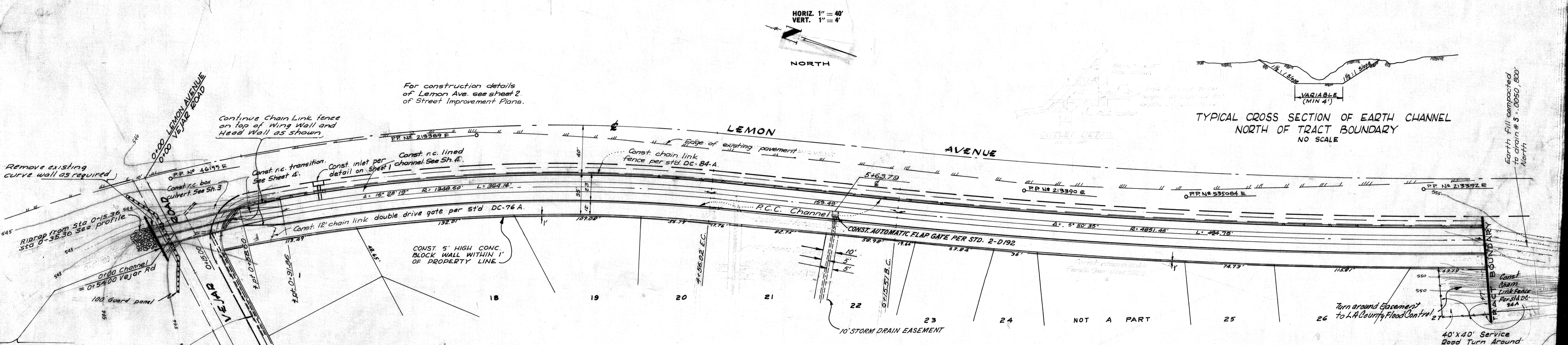
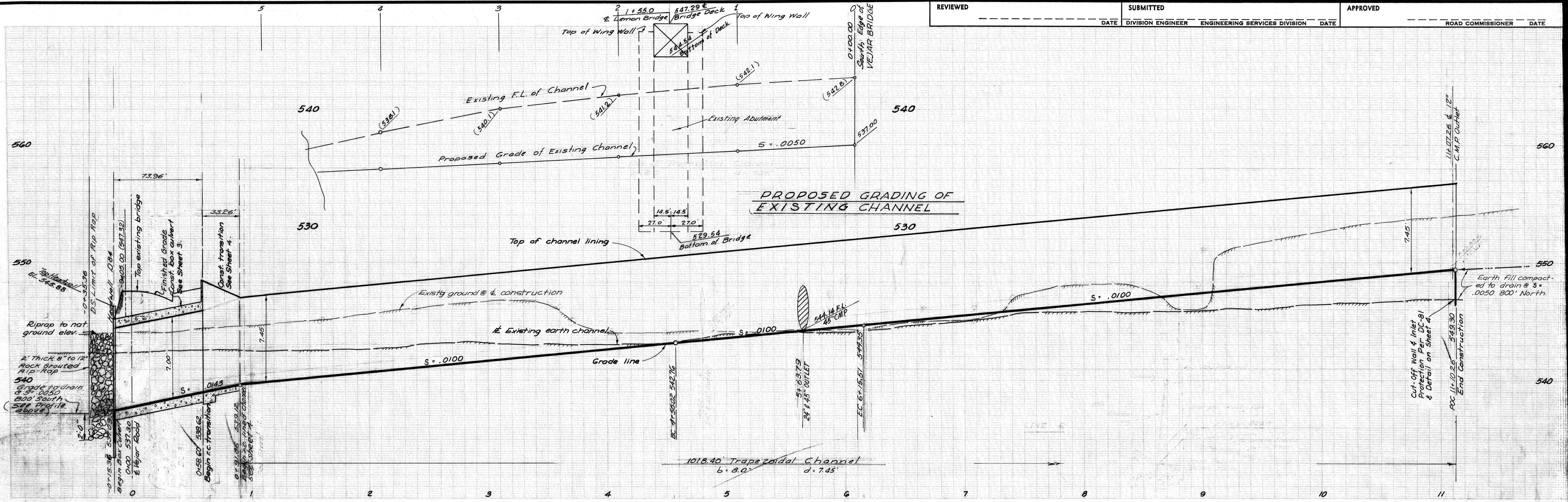
SHEET NUMBERS

Reviewed by the County Road Department
R.C. Mosberg 1-9-64 Date
Signed _____

CITY OF WALNUT, CALIFORNIA
JOHN A. LAMBIE CITY ENGINEER
DESIGN DIVISION
Approved by: *C. J. Green* Date: 1-9-64
Division Engineer

* Revised 1-29-64
Approved by: *[Signature]* Date: _____
Checked by: *[Signature]* Date: _____
Office of the City Engineer - Reg. C. E. N. No. _____
W.S.D. # 210

REVIEWED	SUBMITTED	APPROVED
DATE	DIVISION ENGINEER	ENGINEERING SERVICES DIVISION
DATE	DATE	DATE
		ROAD COMMISSIONER
		DATE



LINE C

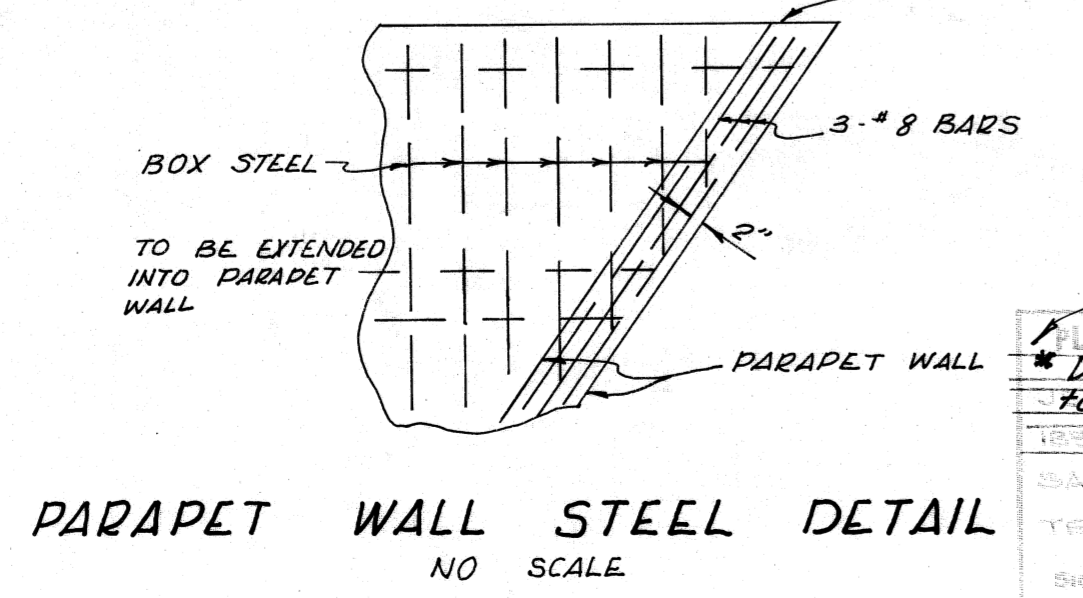
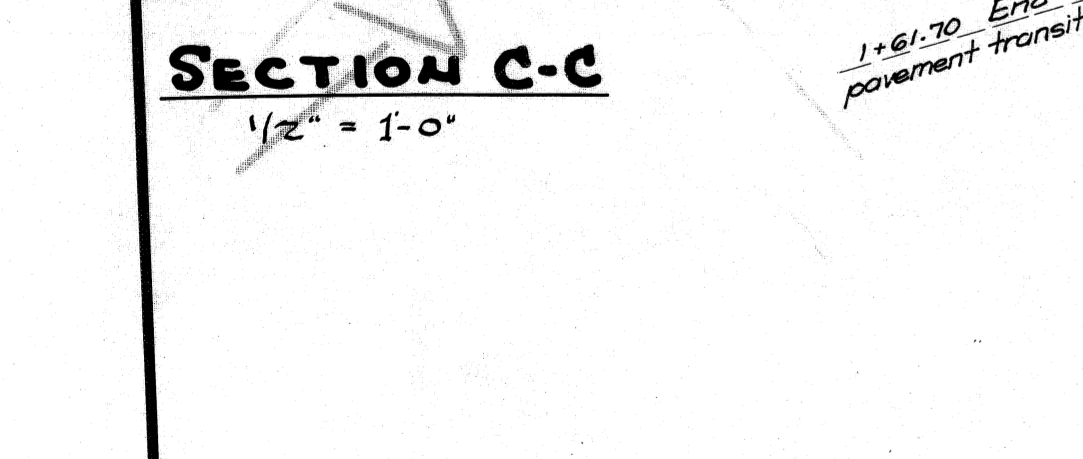
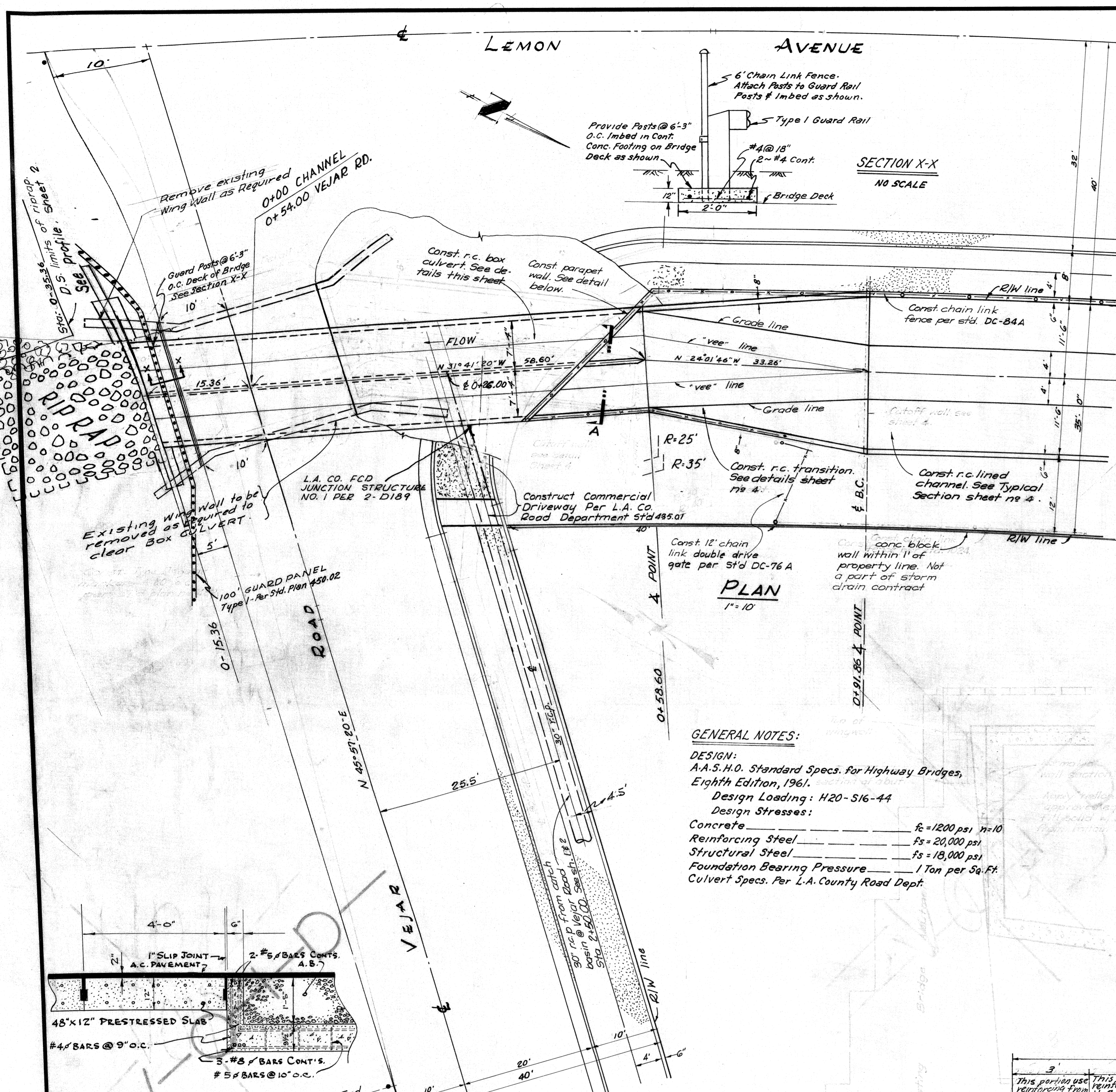
HYDRAULIC DATA - 25 YEAR STORM		
STA. TO	STA.	Q
0+00	11+10.26	1870 CFS

Planned by: JENNINGS-HALDERMAN-HOOD, 1833 E. 17th St., Suite 200, Santa Ana, California, 547-4155. Clifford C. Hood, R.C.E. 12485.

CITY OF WALNUT, CALIFORNIA
 JOHN A. LAMBIE, CITY ENGINEER
 LES COOK, DESIGN DIVISION DEPARTMENT
 Approved by: C. H. Green, Date: 1-9-64, DIVISION ENGINEER

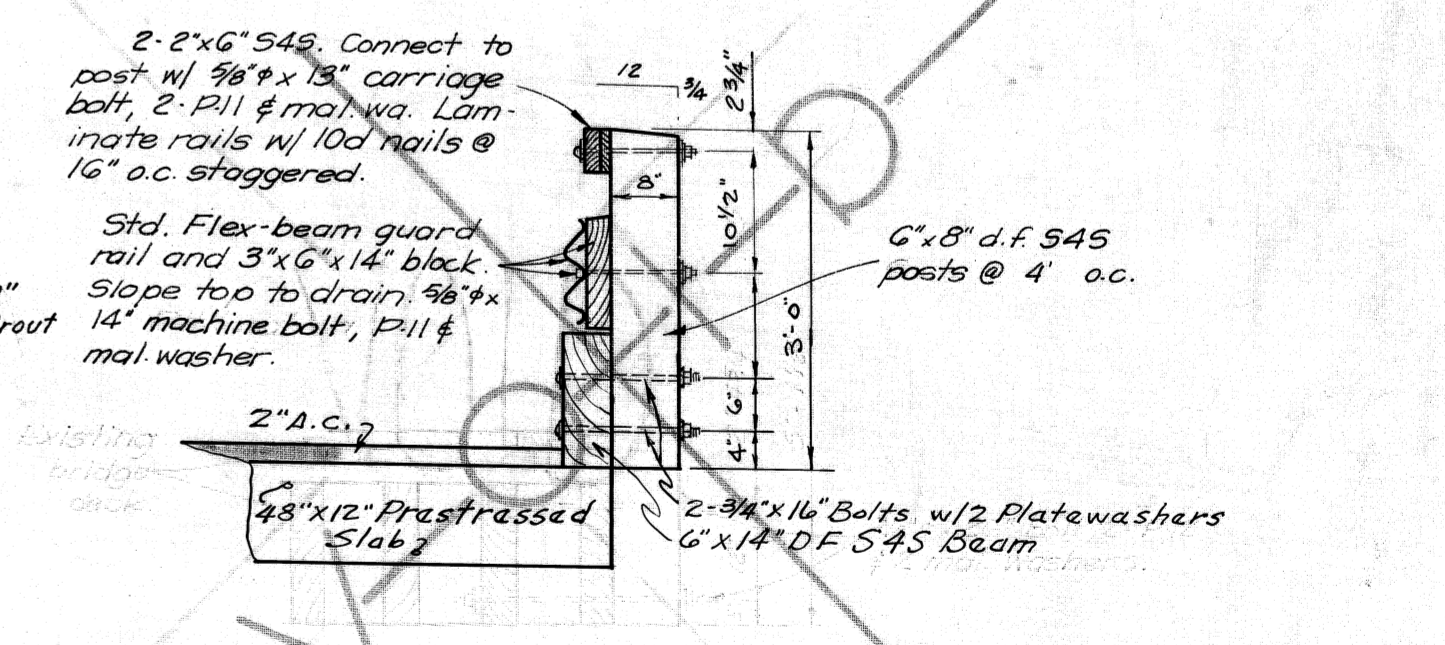
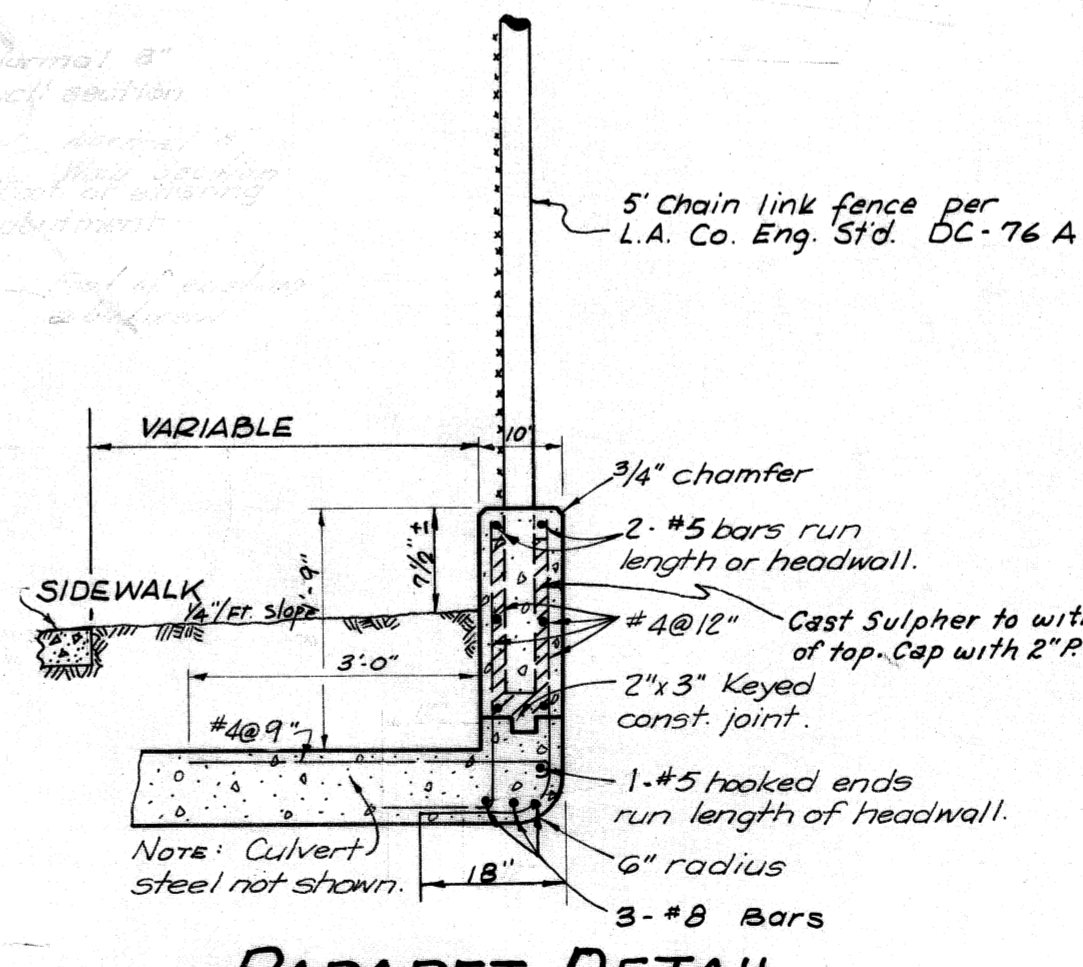
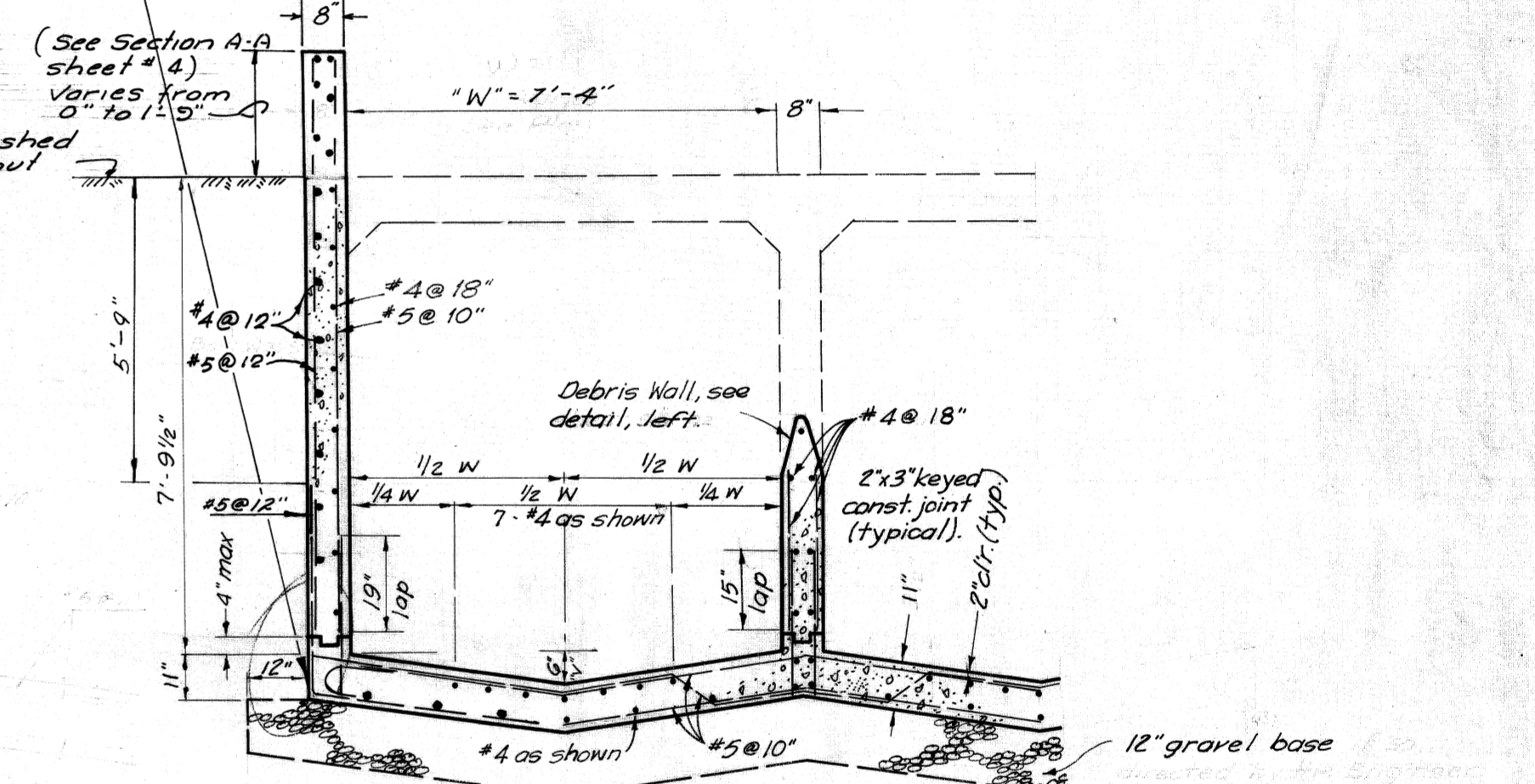
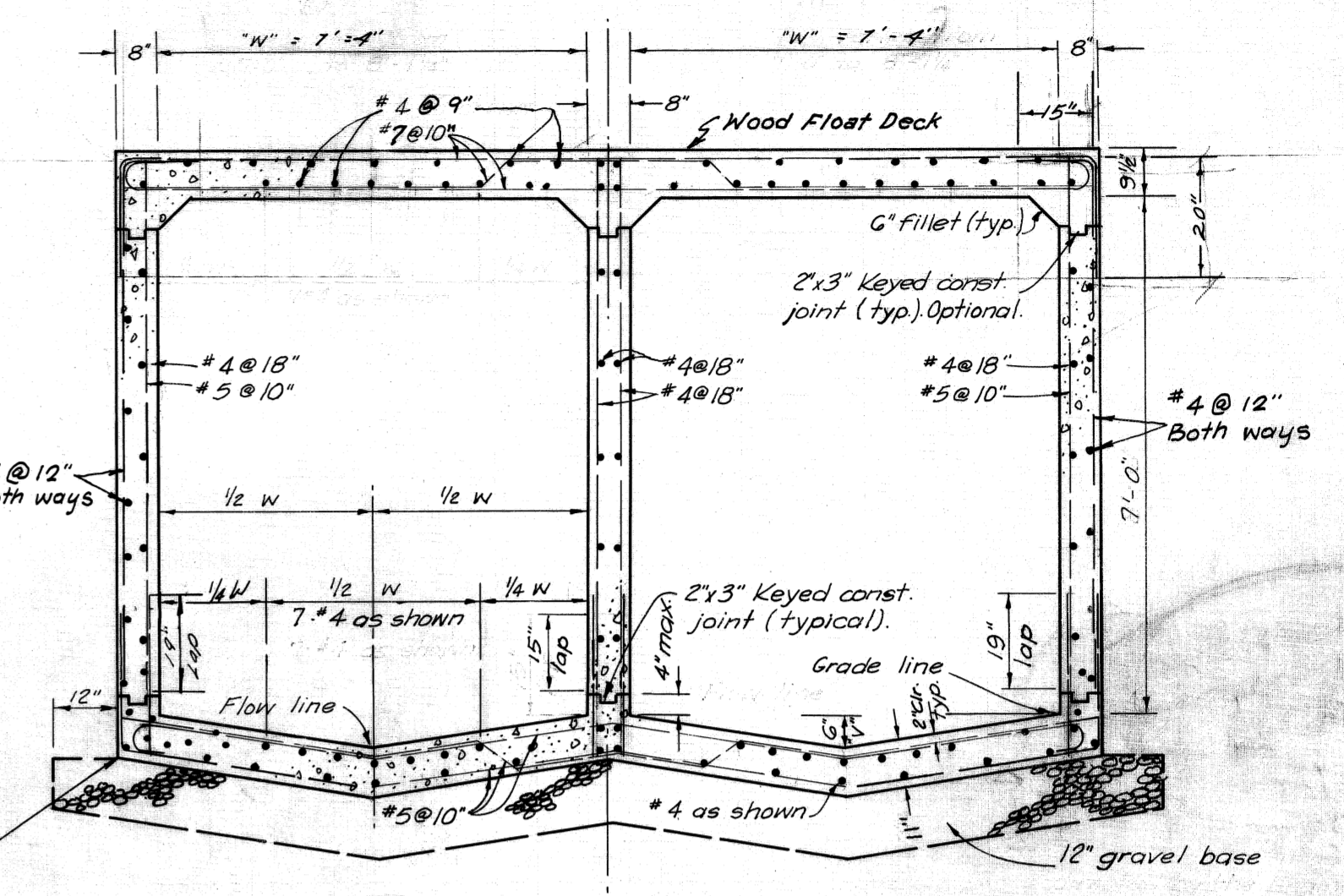
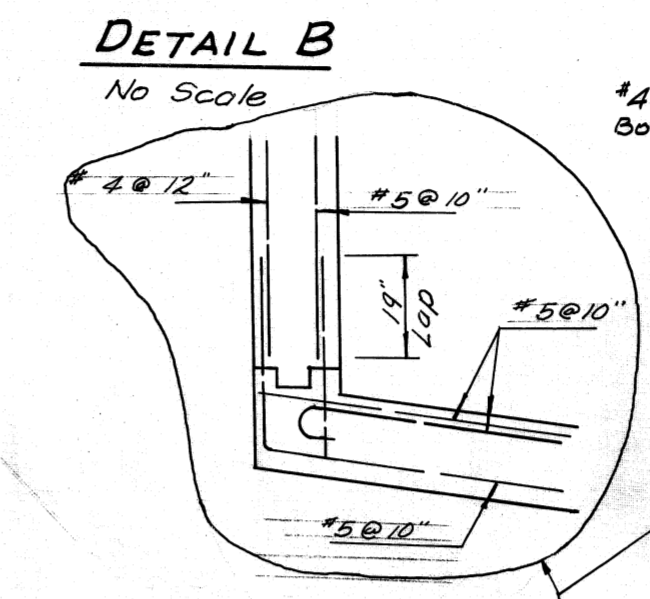
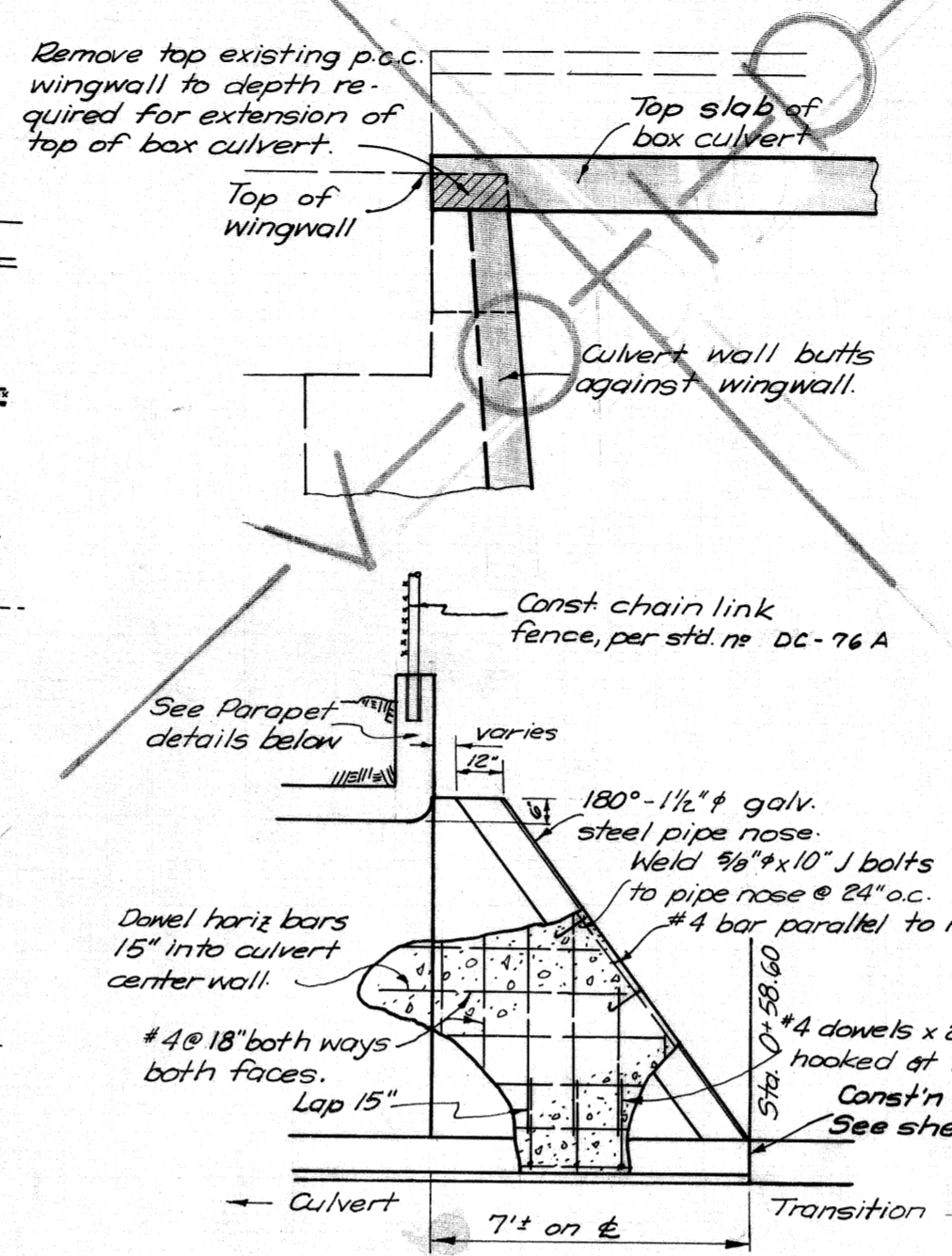
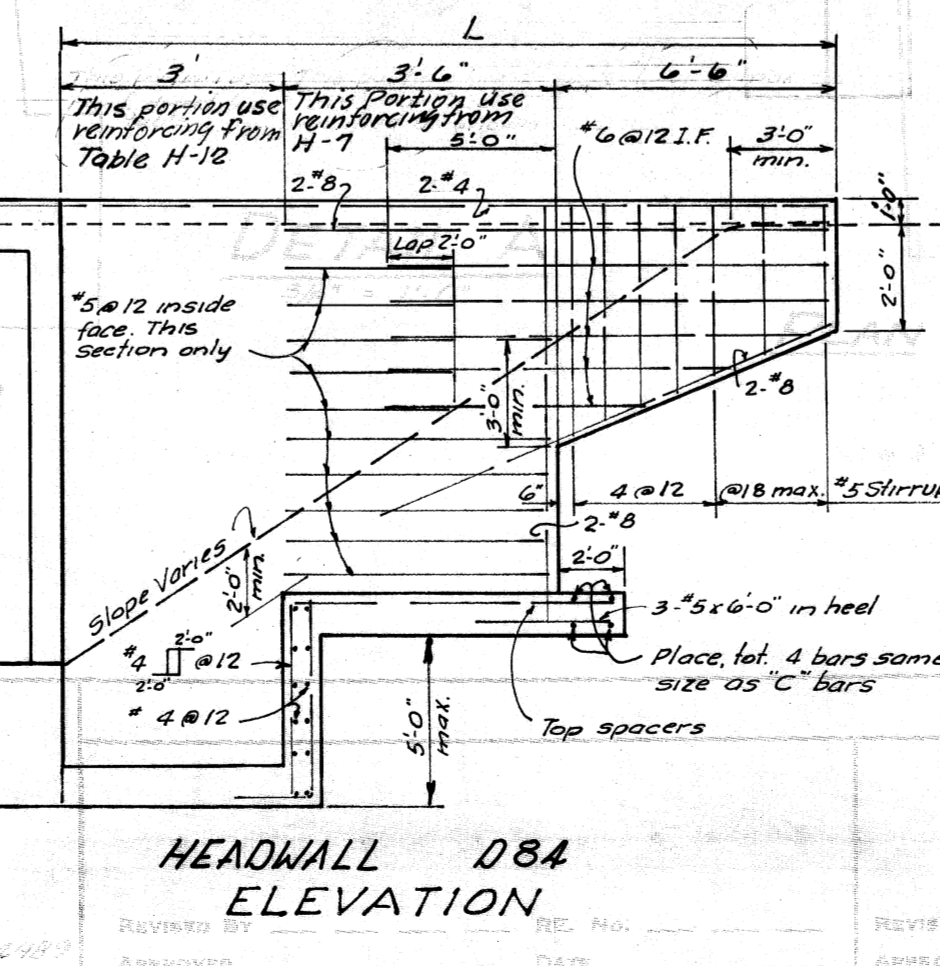
Checked by: [Signature], Date: 1-9-64, Office of the City Engineer, R.C.E. No. 11,706.

NOTE: EXTEND RIP-RAP UP SIDES OF CHANNEL TO NATURAL GROUND



GENERAL NOTES:
 DESIGN: A.A.S.H.O. Standard Specs. for Highway Bridges, Eighth Edition, 1961.
 Design Loading: H20-S16-44
 Design Stresses:
 Concrete $f_c = 1200 \text{ psi } n=10$
 Reinforcing Steel $f_s = 20,000 \text{ psi}$
 Structural Steel $f_s = 18,000 \text{ psi}$
 Foundation Bearing Pressure 1 Ton per Sq. Ft.
 Culvert Specs. Per L.A. County Road Dept.

REINFORCED CONCRETE HEADWALLS	H	W	C	B	E	Notes
	12	7				
	7'2"	4'8"				
	2'4"	1'6"				
	4'10"	3'2"				
	1'2"	1'2"				
	None	None				
	1'0"	1'0"				
	1'0"	1'0"				
	1'0"	1'0"				
	0.75	0.45				
	76	25				



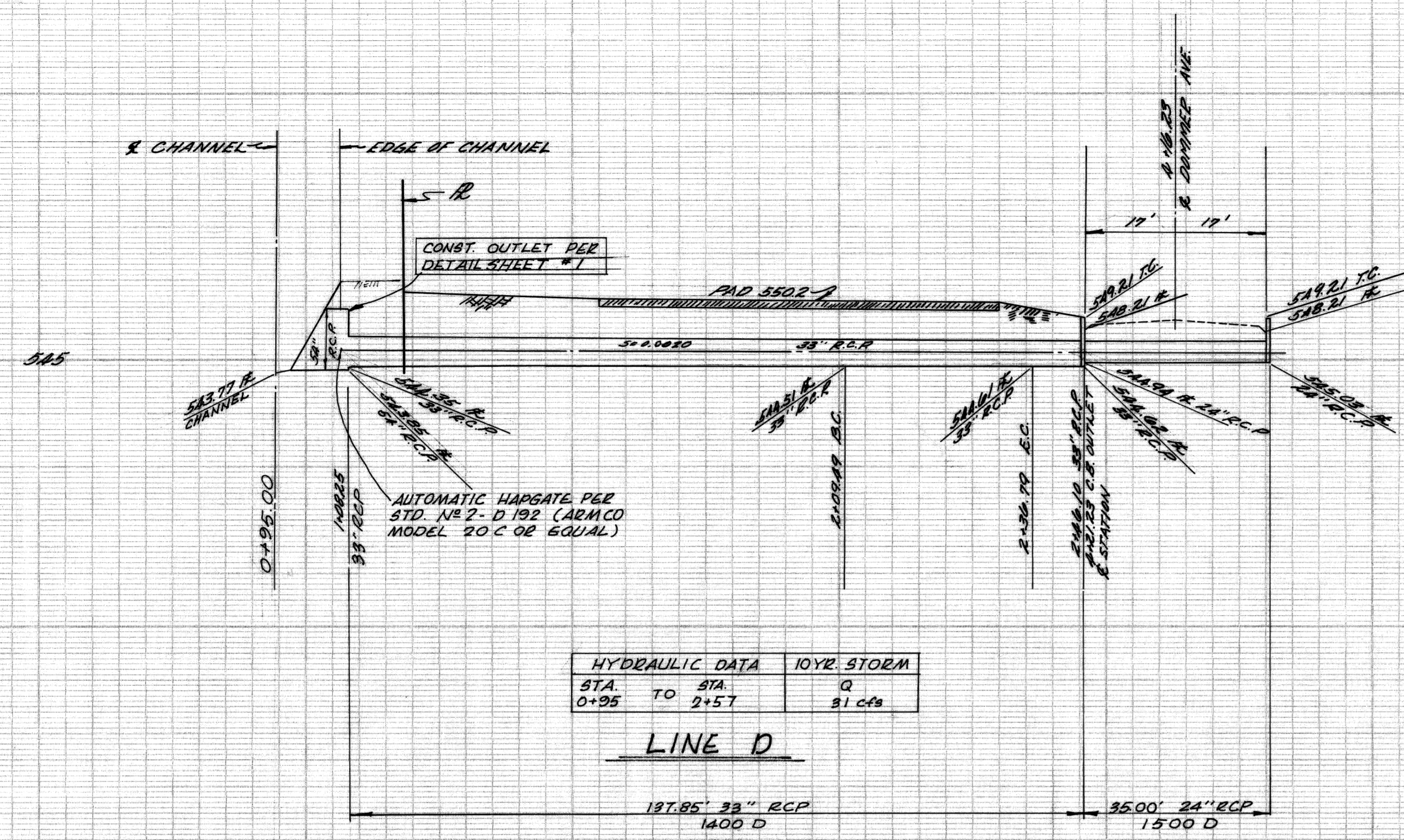
Plans prepared by:
JENNINGS-HALDERMAN-HOOD
 1833 E. 17th St., Suite 200
 Santa Ana, California - 92704-4158
 Telephone: 949-4158

CITY OF WALNUT, CALIFORNIA
JOHN A. LAMBIE CITY ENGINEER
 DESIGN DIVISION

Approved by: *C. J. Green* Date: 1-9-64
 Division Engineer

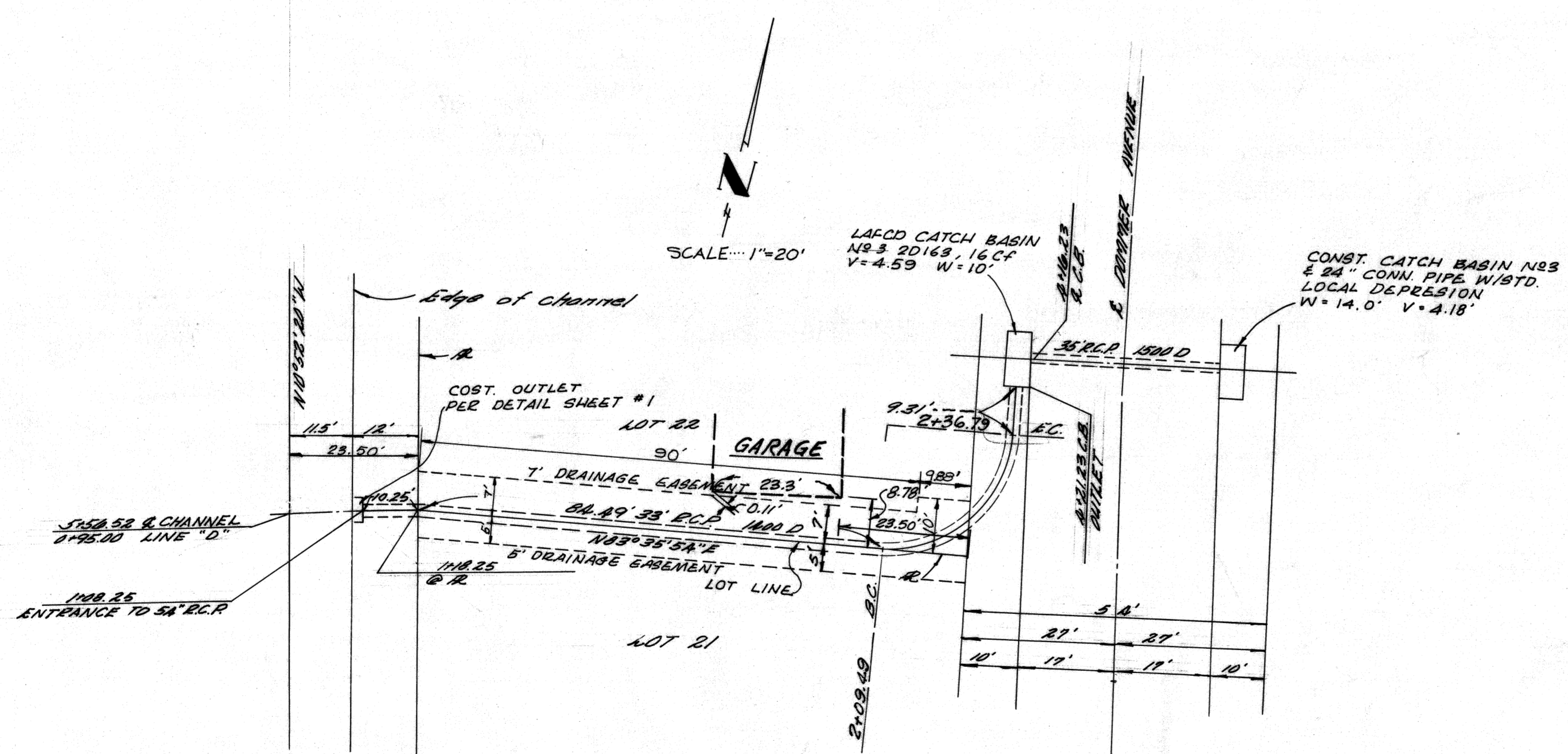
Checked by: *C. J. Green* Date: 1-9-64
 Office of the City Engineer - R.C.E. 12786

DRAINAGE CHANNEL
BOX CULVERT DETAILS



STA.	TO STA.	Q
0+95	2+57	91 cfs

HORIZ. 1" = 20'
 VERT. 1" = 10'



LINE D

PIPE	CURVE DATA
30" x 30"	22.5' 35.3

CHANGE OF PLAN NO. 1
 1. Realign Line D.
 Per This Drawing

Plans prepared by:
 JENNINGS-WALDEYMAN-HOOD
 1833 E. 17TH ST., Suite
 Santa Ana, California 92701-4155
 Clifford C. Hood P.E. 12487

CITY OF WALNUT, CALIFORNIA
 JOHN A. LAMBIE CITY ENGINEER
 DESIGN DIVISION
 Approved by: *[Signature]* Date: 4-8-69
 OFFICE OF CITY ENGINEER

Major Road to 1112 North of Meyer Rd.

Not a street plan
 Storm Drain

101E

446