

**STORM DRAIN PLANS IN
TRACT No. 29084 M.T.D. No. 483
UNIT II**

BENCH MARK: B6 1783
RDBM. TAG N. CONC. ABUT.
OF BRIDGE # 169, 16 FT. W/O E
LEMON AVE. E 110' S/O E VEJAR
ROAD.
COVINA 1965 EL. 546.703

GENERAL NOTES (Cont'd)

- A SOILS ENGINEER SHALL CERTIFY THAT ALL FILLS AND BACKFILLS OVER UNDERGROUND STORM DRAINS OUTSIDE OF ST. R.W. HAVE BEEN COMPACTED OR CONSOLIDATED TO A 90% DENSITY. THIS CERTIFICATION SHALL BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THE WORK BY THE CITY.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-10.41 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION IN REGARD TO SAFETY ORDERS.
- THE CONTRACTOR SHALL CONFORM TO THE "MINIMUM PUBLIC SAFETY REQUIREMENTS" AS SHOWN ON LOS ANGELES COUNTY ENGINEER STANDARD S-2.
- ALL PIPE SHALL BE PLACED IN A TRENCH IN NATURAL GROUND AND/OR COMPACTED FILL THE GROUND LEVEL BEFORE THE TRENCHING SHALL BE AT LEAST 3 FEET ABOVE TOP OF PIPE ELEVATION, OR AT FINISH SURFACE ELEVATION, WHICHEVER IS LESS. ALL BACKFILL IN EASEMENTS SHALL BE COMPACTED TO THE FINISH SURFACE ELEVATION.
- THE MANHOLES SHALL BE SET FLUSH WITH THE FINISH GRADE OF THE SCHOOL SITE.

GENERAL NOTES:

- ELEVATIONS ARE IN FEET ABOVE U.S.S. MEAN SEA LEVEL DATUM OF 1929. ALL WORK SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1970 EDITION," INCLUDING THE 1971 & 1972 SUPPLEMENTS THERETO 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, OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY, PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL SHEETS.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE, (909) 390-5300 EXT. 333, AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT. THE CONTRACTOR SHALL SUBMIT A DEPOSIT FOR CONSTRUCTION INSPECTION TO THE CITY ENGINEER. THE CONTRACTOR SHALL NOTIFY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT AT 223-211 EXT. 74211 AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
- ALL CONSTRUCTION JOINTS IN THE FOOTING OF SLABS AND WALLS SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED.
- NO CONCRETE SHALL BE PLACED UNTIL THE FORMS AND REINFORCING STEEL HAS BEEN PLACED, INSPECTED AND APPROVED.
- TRANSVERSE REINFORCEMENT AND TRANSVERSE JOINTS SHALL BE PLACED AT RIGHT ANGLES (OR RADIAL) TO CONDUIT CENTERLINE EXCEPT AS OTHERWISE SHOWN ON THE DRAWINGS.
- ALL CONCRETE SHALL BE PORTLAND CEMENT CONCRETE WITH AN ULTIMATE 28 DAYS COMPRESSIVE STRENGTH OF 4000 p.s.i.
- ALL EXPOSED EDGES SHALL BE FINISHED WITH A 3/4" CHAMFER.
- ALL STEEL ADJACENT TO FACE OF CONCRETE SHALL HAVE 2" CLEARANCE UNLESS OTHERWISE SPECIFIED.
- REINFORCEMENT SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE STEEL AS PER A.S.T.M. A-615-60T
- ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE "MANUAL OF STANDARD PRACTICE".
- DIMENSIONS FROM FACE OF CONCRETE TO STEEL ARE TO CENTERLINE OF STEEL UNLESS OTHERWISE NOTED.
- ALL BACKFILLS AND FILLS TO BE USED AS SUBGRADE SHALL BE COMPACTED TO A RELATIVE DENSITY OF 90% UNLESS OTHERWISE SPECIFIED.
- ALL STEEL THAT IS TO BE CONTINUOUS SHALL HAVE A MINIMUM LAP OF 30 BAR DIAMETERS OR 18", WHICHEVER IS GREATER.
- ALL CATCH BASINS AND CONNECTOR PIPES BETWEEN CATCH BASINS TO BE INSPECTED BY THE CITY OF WALNUT.
- PIPE SHALL BE EMBEDDED 5 INCHES INTO ALL STRUCTURES INCLUDING INLET & HEADWALLS, UNLESS OTHERWISE SPECIFIED.
- 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 CONDUIT IN STREET RIGHTS OF WAY SHALL BE BROUGHT UP TO SUBGRADE OF THE ROAD OR TO 2 FEET ABOVE THE TOP OF THE CONDUIT, WHICHEVER IS LESS. THE CITY OF WALNUT SHALL INSPECT ALL BACKFILL AND FILL ABOVE 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.
- A PERMIT SHALL BE OBTAINED FROM THE CITY OF WALNUT AND SHALL BE SUBMITTED TO THE INSPECTOR PRIOR TO COMMENCING CONSTRUCTION WITHIN THEIR RIGHTS OF WAY.
- ALL REINFORCED CONCRETE PIPE SHALL BE BEDDED IN ACCORDANCE WITH LOS ANGELES COUNTY ENGINEER CASE AND BEDDING PER STANDARD DRAWING D-54.
- 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.
- THIS STORM DRAIN WILL NOT BE ACCEPTED FOR MAINTENANCE UNTIL THE STREETS HAVE BEEN PAVED, MANHOLES BROUGHT TO GRADE, AND THE SYSTEM IS CLEANED TO THE SATISFACTION OF THE CITY ENGINEER.

LIST OF STANDARD PLANS

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

C.B. No. 1	2-D 160
C.B. No. 2	2-D 162
C.B. No. 3	2-D 163
T.S. No. 3	2-D 188
M.H. No. 1	2-D 102
CONCRETE COLLAR	2-D 393
CONNECTION TO C.B.	2-D 224
CATCH BASIN FRAME & COVER (MANHOLE)	2-D 156
CATCH BASIN OPENING	2-D 232
CATCH BASIN REINFORCING (IN WALLS)	2-D 172
CATCH BASIN PROTECTION BAR	2-D 175
MANHOLE FRAME & COVER	2-D 181
MANHOLE SHAFT	2-D 107
CATCH BASIN ADJ. PROTECTION BAR STIRRUP	2-D 264

LOS ANGELES COUNTY ENGINEER

PIPE BEDDING FOR STORM DRAIN	D-54
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RIPRAP NOTES:

- ROCKS FOR GROUDED RIPRAP SHALL BE GOOD QUALITY BROKEN CONCRETE AND/OR RIVER RUN ROCK. THE SMALLEST DIMENSION SHALL EXCEED 3 INCHES AND THE LARGEST DIMENSION SHALL NOT EXCEED 18 INCHES. THE LARGEST DIMENSION SHALL NOT EXCEED 4 TIMES THE SMALLEST DIMENSION.
- THERE SHALL BE A GROUT BED OF AT LEAST 2 INCHES BENEATH THE FIRST LAYER OF ROCK. ALL THE VOIDS BETWEEN THE ROCKS SHALL BE FILLED WITH GROUT. MAXIMUM SPACING BETWEEN ROCKS SHALL BE 2 INCHES.
- SURFACE ROCKS SHALL BE IMBEDDED FROM 1/2 TO 2/3 OF THEIR VERTICAL DIMENSION. MAXIMUM PROTRUSION SHALL NOT EXCEED TWO INCHES ABOVE GROUT.

NOTE: CONCRETE MAY BE SUBSTITUTED FOR THE GROUT.

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.

John Sarracino
REGISTERED CIVIL ENGINEER No. 19233 4-20-73
DATE

"AS BUILT"

M.T.D 483 - UNIT II

CITY OF WALNUT, CALIFORNIA
JOHN A. LAMBE COUNTY ENGINEER

DESIGN DIVISION

APPROVED BY: _____ DATE: _____

CHECKED BY: *Neil Holmstrom* R.C.E. No. 15398 DATE: 7/5/73
OFFICE OF CITY ENGINEER

HYDRAULIC ELEMENTS

LINE	STATION TO	STATION	Q DESIGN (cfs)
B	0+00	1+59.06	41.8
B	1+59.06	7+99.18	23.0
A-5	J.C.	C.B.	9.8
A-6	J.C.	C.B.	13.1
B-1	T.S.	C.B.	18.8

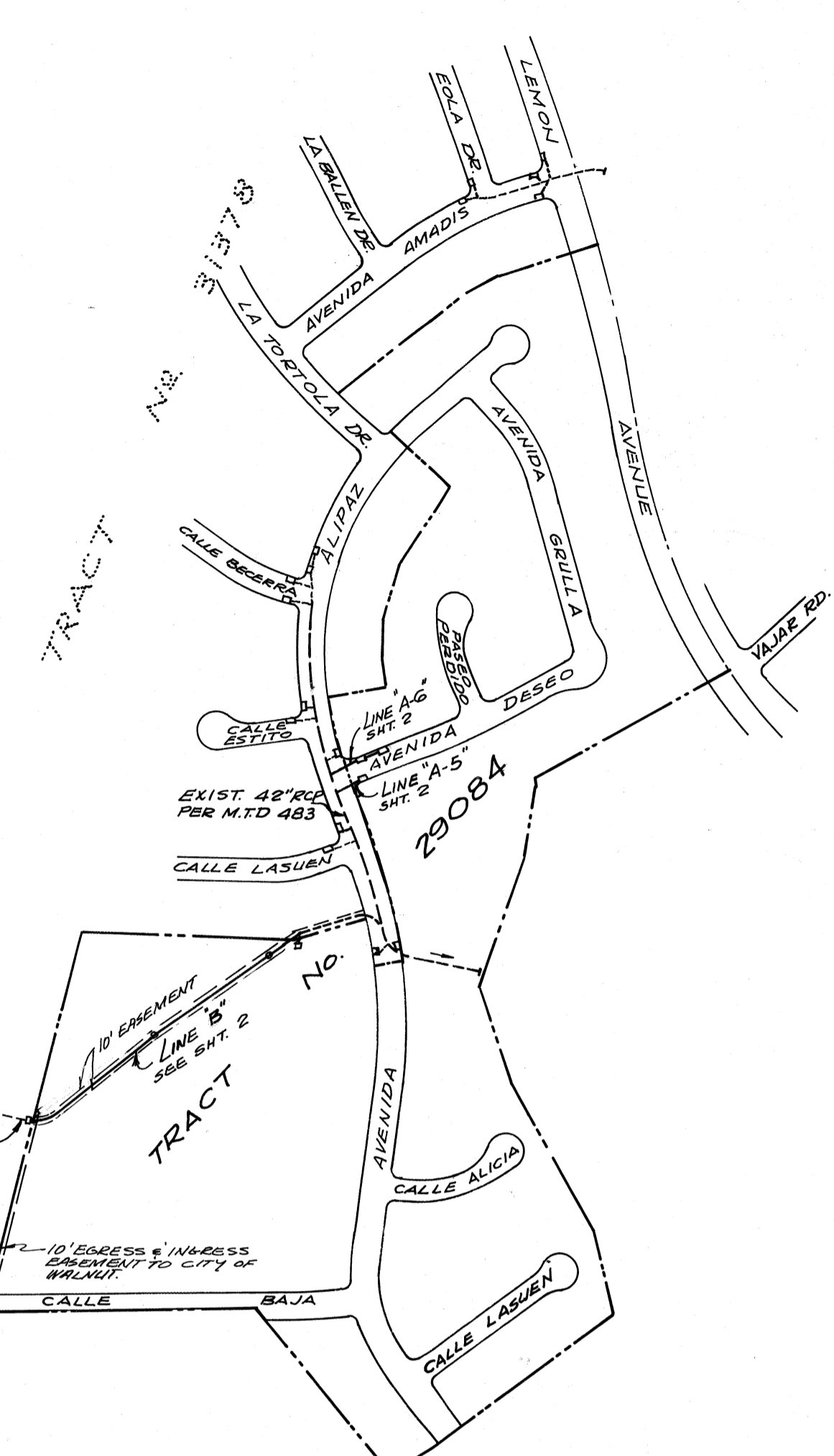
LIND & HILLERUD INC.
2100 HUNTINGTON DRIVE
SAN MARINO, CALIF 91108
(213) 576-1654
JOHN N. SARRACINO

SIGNATURE: *John Sarracino* R.C.E. No. 19233

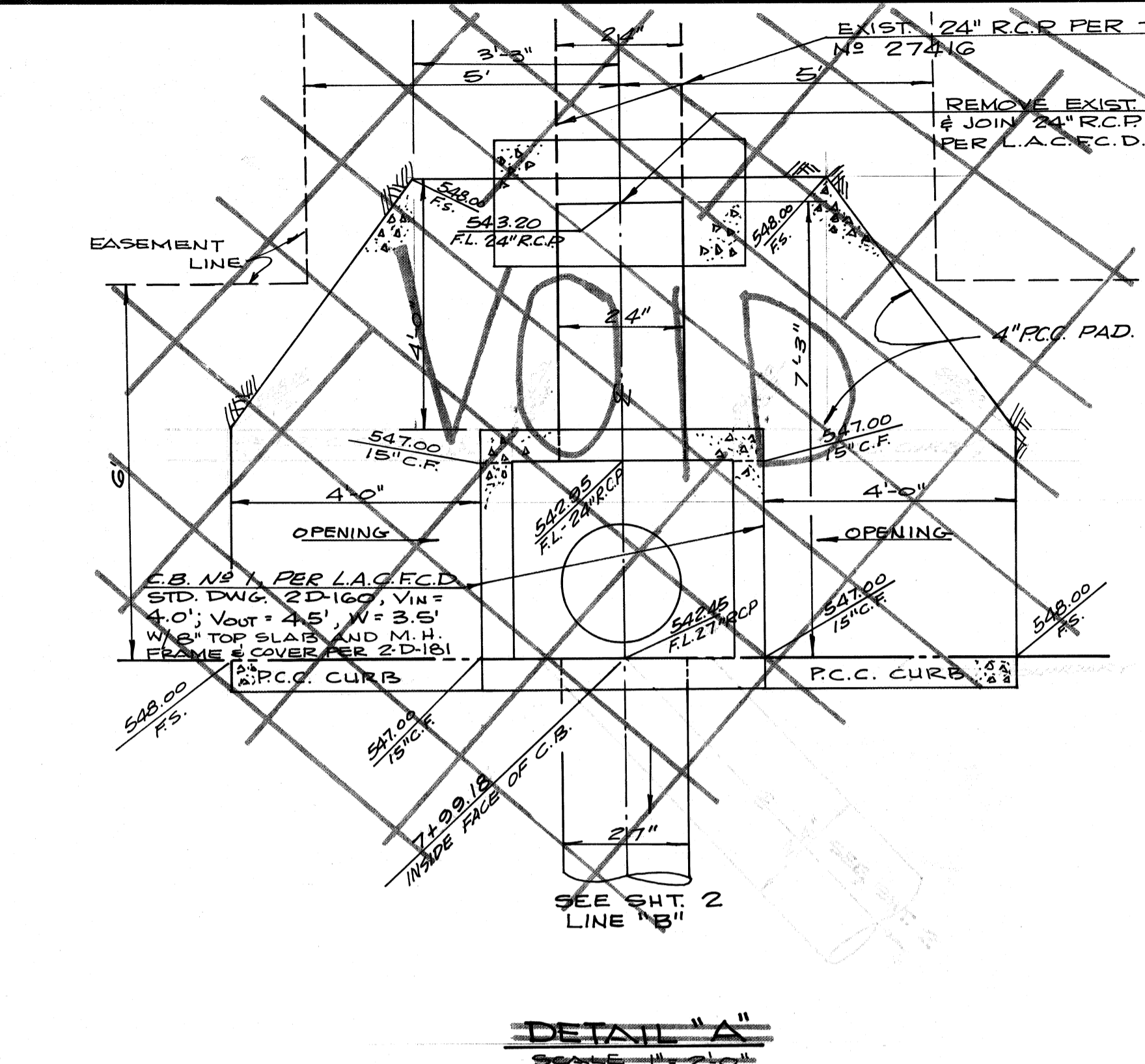
REVIEWED BY THE LOS ANGELES COUNTY ROAD DEPT.

BY: _____ DATE: _____

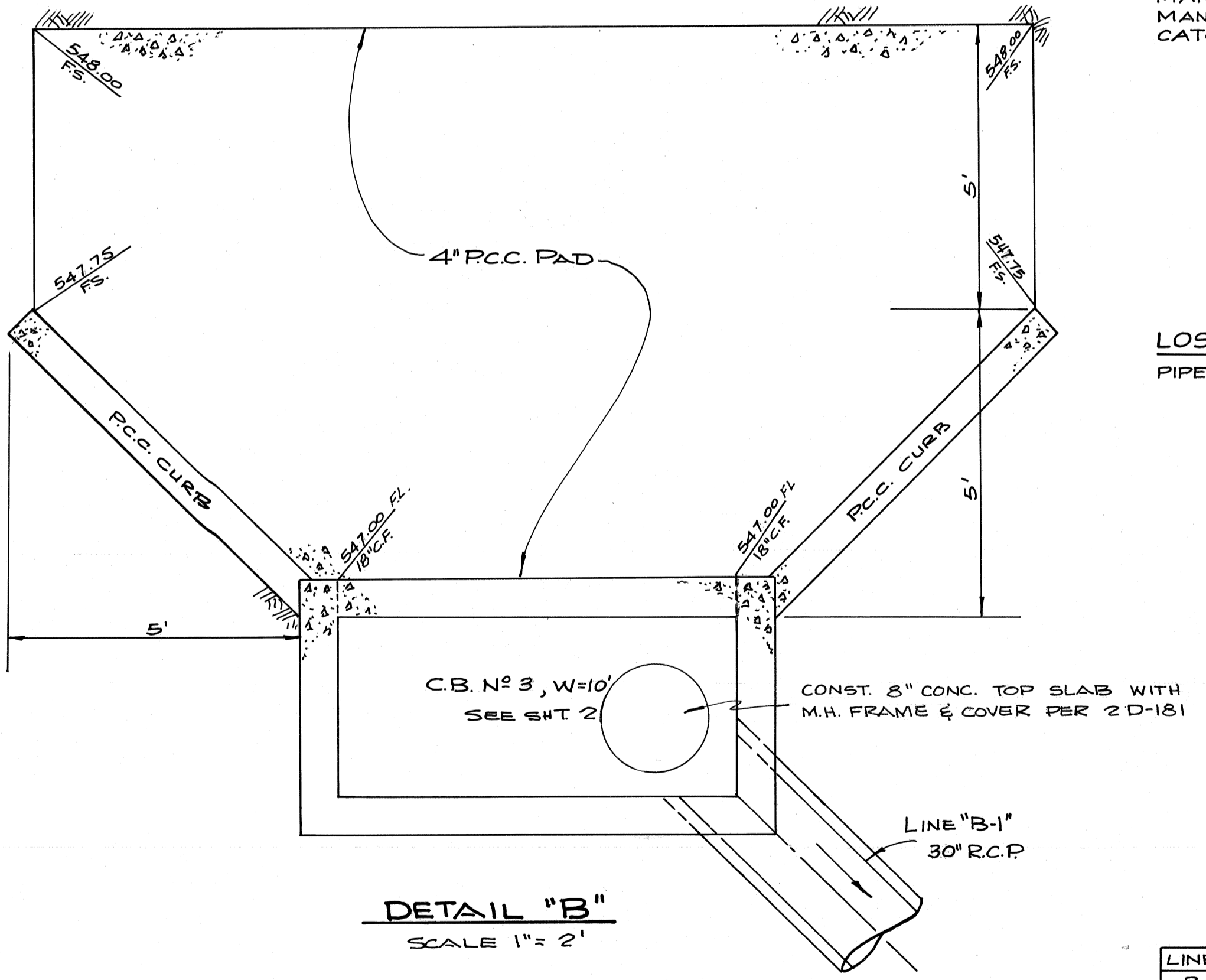
REVISION TO PLAN
10-14-74
① Line "B" - raise finish surface over storm drain 3'
② Line "B-1" - raise CB #23 - 3.0' on profile and Detail "B"
③ Line "B" - revise plan & profile Sta 7+14.81 to Sta 8+06.43
VOID detail "A" on sht 1.
By: *Gary N. Hillerud* Approved By: *Frank W. Kelly*
Gary N. Hillerud RCE 17463 Dated: 10/17/74



KEY MAP
SCALE 1" = 300'

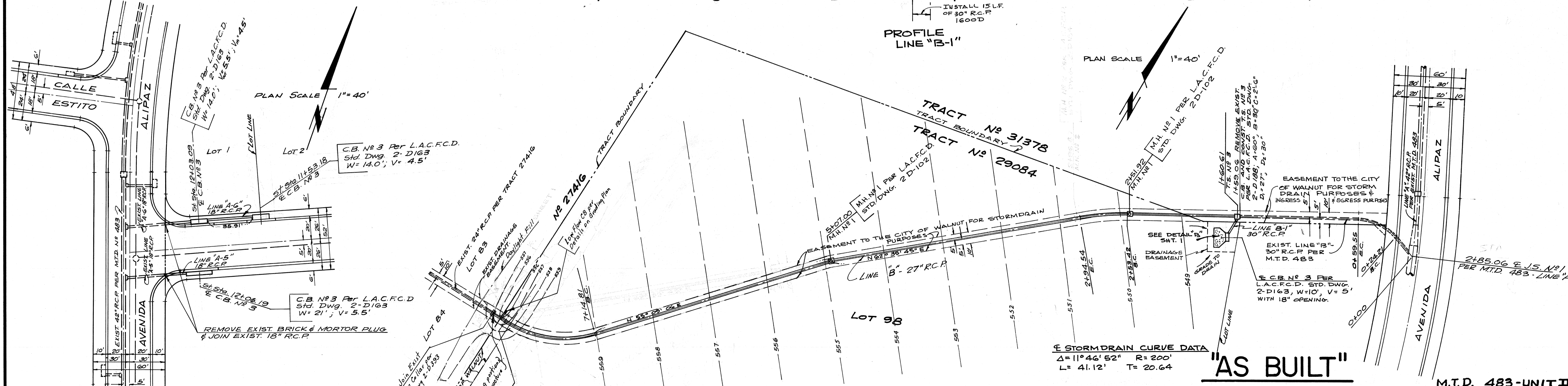
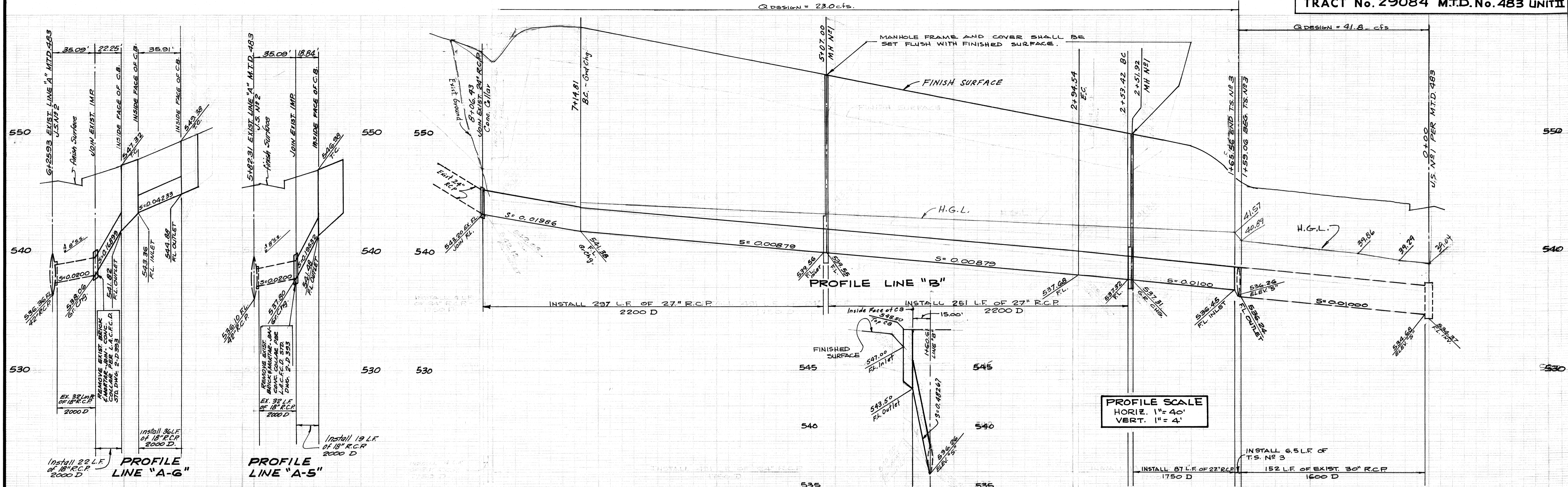


DETAIL "A"
SCALE 1" = 2'



DETAIL "B"
SCALE 1" = 2'

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TRACT No. 29084 M.T.D. No. 483 UNIT II**



LIND & HILLERUD INC.
2100 HUNTINGTON DRIVE
SAN MARINO, CALIF. 91108
(213) 576-1654
JOHN N. SARRACINO
SIGNATURE: [Signature] R.C.E. NO. 19233

CITY OF WALNUT, CALIFORNIA
JOHN A. LAMBE
COUNTY ENGINEER

CHECKED BY: [Signature] R.C.E. NO. 15398 DATE: 7/5/13
OFFICE OF CITY ENGINEER

"AS BUILT"

M.T.D. 483-UNIT II