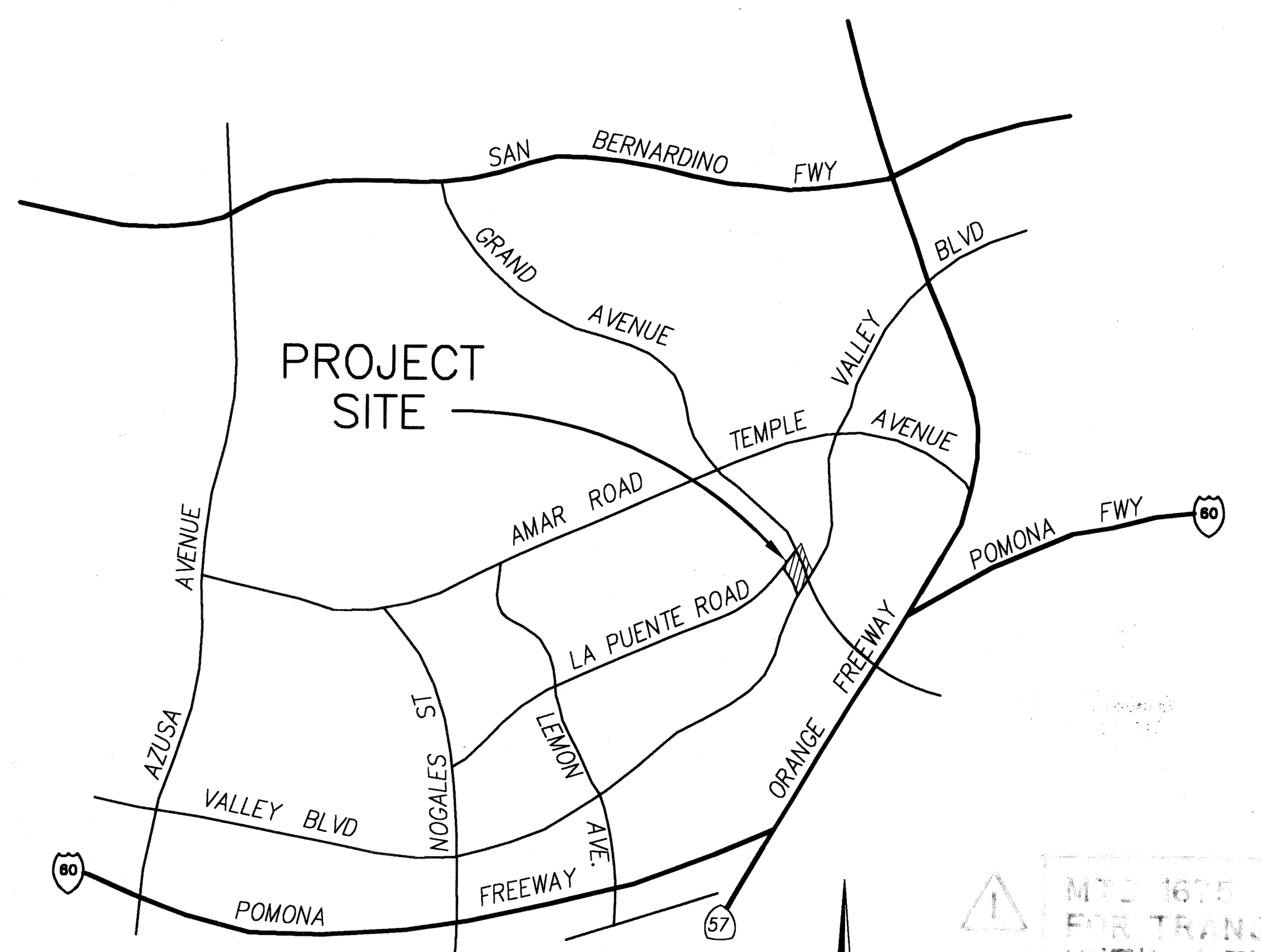
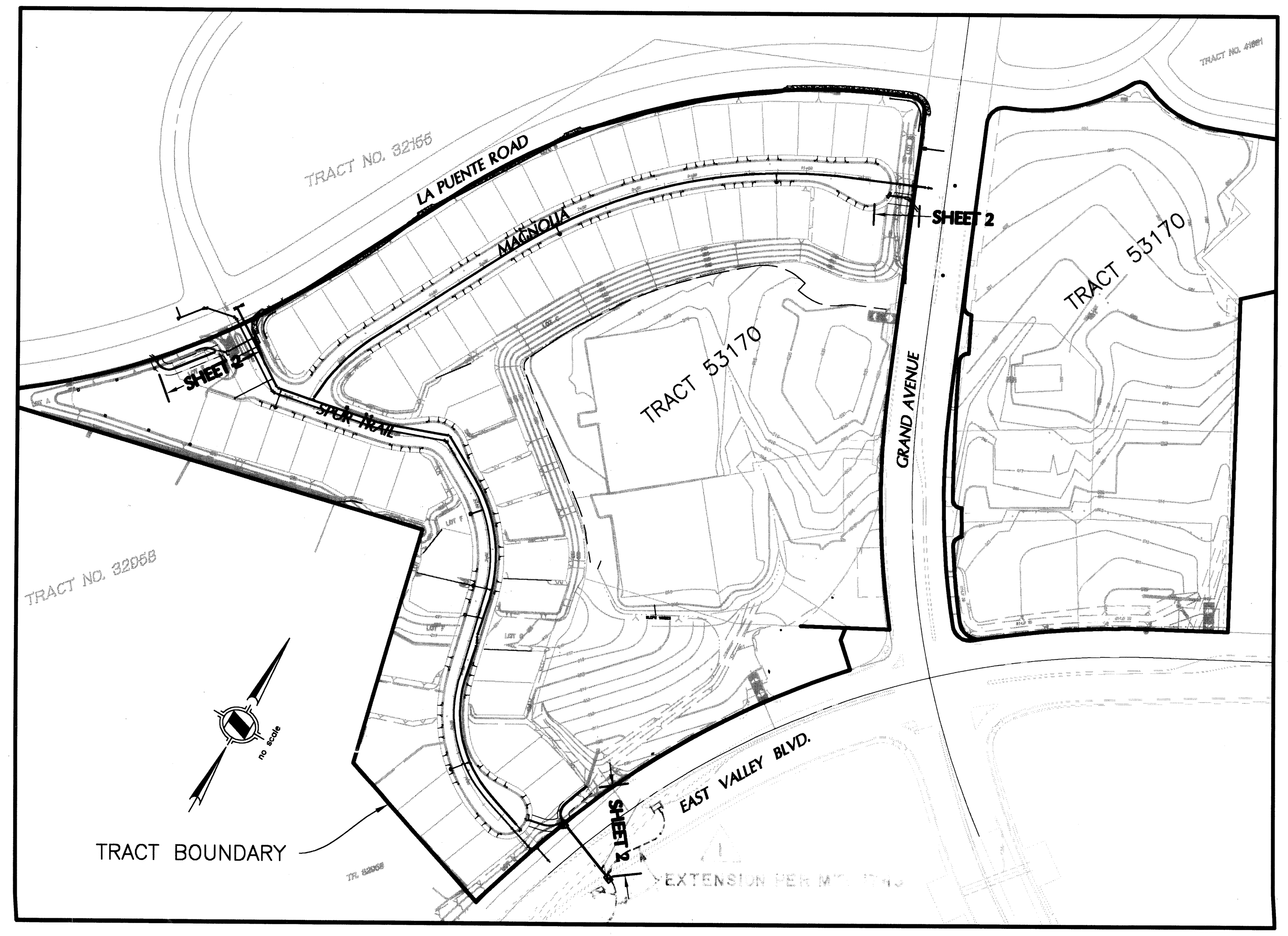
COUNTY OF LOS ANGELES
CITY OF WALNUT
MTD 1675
TRACT NO. 53170



LOCATION MAP

NO SCALE

MTD 1675 IS NOT ELIGIBLE FOR TRANSFER TO LACFCD UNTIL MTD 1749 IS TRANSFERRED.



KEY MAP

NOT TO SCALE

INDEX TO PROJECT DRAWINGS

SHEET 1 TITLE SHEET, INDEX MAP, GENERAL NOTES
SHEET 2 LINE A, LAT A-2, LAT A-3, LINE B & LINE C
SHEET 3 DETAILS SHEET

BENCH MARK:
LEAD & BRAD IN NLY CB VALLEY BL 1.5M W/O BCR 1.4M E/O END OF CB 16.2M N/O C/L & 18M W/O C/L SUZANNE RD

BENCHMARK NOTE:
BM #4915 ELEV. 556.032
DATUM: NAVD88
BASELINE QUAD 1995

HYDRAULIC ELEMENTS TABLE

LINE	STA to STA	Q_{100}	DIA	So	n	Dc	Vc	Sc
"A"	1+00.00 1+13.19	58.0	30"	0.0040	0.013	2.38	12.03	0.0173
"A"	1+13.19 2+08.49	55.0	30"	0.0040	0.013	2.35	11.47	0.0155
"A"	2+20.49 3+02.00	45.0	30"	0.1239	0.013	2.23	9.75	0.0107
"A-3"	1+03.05 1+67.53	11.0	18"	0.1833	0.013	1.27	6.89	0.0104
"B"	1+03.00 1+13.46	9.4	18"	0.2531	0.013	1.18	6.28	0.0086
"B"	1+18.46 1+29.17	9.4	18"	0.1777	0.013	1.18	6.28	0.0086

HYDRAULIC ELEMENTS TABLE

LINE	STA to STA	Q_{25}	DIA	So	n	Dc	Vc	Sc
~~"A-2"~~	~~1+02.85 1+09.34~~	~~3.0~~	~~18"~~	~~0.0050~~	~~0.013~~	~~0.66~~	~~4.02~~	~~0.0051~~
"C"	1+00.00 2+27.83	7.0	24"	0.0040	0.013	0.94	4.83	0.0048
"C"	2+32.83 2+36.83	7.0	24"	0.0040	0.013	0.94	4.83	0.0048
"C"	2+39.94 2+93.96	4.6	18"	0.0040	0.013	0.82	4.63	0.0056

ESTIMATE OF STORM DRAIN QUANTITIES

NO	DESCRIPTION		
80	INST. 18" R.C.P. (SEE PROFILE FOR D-LOAD)	325	L.F.
82	INST. 24" R.C.P. (SEE PROFILE FOR D-LOAD)	192	L.F.
82	INST. 30" R.C.P. (SEE PROFILE FOR D-LOAD)	192	L.F.
95	CONST. CURB OPENING CATCH BASIN PER A.P.W.A. STD. PLAN NO. 300--2 (W & V PER PLAN)	4	EA.
96	CONST. J.S. PER A.P.W.A. STD. PLAN NO. 331-2	2	EA.
98	CONST. CONCRETE COLLAR PER A.P.W.A. STD. PLAN NO. 380-2	2	EA.
~~104~~	~~CONST. HEADWALL PER CAL-TRANS STD. PLAN D89, H=6'-2", L=12'~~	1	EA.
~~105~~	~~CONST. RIP-RAP PER DETAIL ON SHEET 3~~	~~200~~	S.F.
106	CONST. BRICK AND MORTAR PLUG	1	EA.
150	CONST. CDS UNIT PSW50_42 PER DETAIL ON SHEET 3	1	EA.
151	CONST. CDS UNIT PMSU20_25 PER DETAIL ON SHEET 3	1	EA.
152	CONST. A.C. REPAVEMENT PER DETAIL ON SHEET 2	200	S.F.
153	CONST. CDS UNIT PMSU20_25 PER DETAIL ON SHEET 3	1	EA.

GENERAL NOTES:

1. A PERMIT SHALL BE OBTAINED AND DEPOSIT PAID TO THE DEPARTMENT OF PUBLIC WORKS AT THE PERMIT COUNTER, 900 SOUTH FREMONT AVENUE, 8TH FLOOR, PRIOR TO STARTING WORK UNDER THIS CONTRACT. COPIES OF ALL OTHER REQUIRED PERMITS, SUCH AS FLOOD CONTROL DISTRICT AND ROAD EXCAVATION MUST BE FILED WITH THE PERMIT APPLICATION.
2. WHEN WORK IS WITHIN A CONTRACT CITY, CONTRACTOR MUST CONTACT THE DIRECTOR OF PUBLIC WORKS OF THAT CITY TO DETERMINE THE LOCATION TO PAY THE INSPECTION DEPOSIT.
3. 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.
4. 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.
5. 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.
6. 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 AND SHALL CONFORM TO THE "MINIMUM PUBLIC SAFETY REQUIREMNETS" AS SHOWN ON LOS ANGELES COUNTY ENGINEER STANDARD 6008-1
7. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. MEAN SEA LEVEL DATUM OF 1929, UNLESS OTHERWISE INDICATED.
8. NO CONCRETE SHALL BE PLACED UNTIL THE FORMS AND REINFORCING STEEL HAVE BEEN PLACED, INSPECTED AND APPROVED.
9. ALL STRUCTURAL CONCRETE SHALL BE PORTLAND CEMENT CONCRETE WITH AN ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF 6000 P.S.I. UNLESS OTHERWISE NOTED.
10. TRANSVERSE REINFORCEMENT AND TRANSVERSE JOINTS SHALL BE PLACED AT RIGHT ANGLES (OR RADIAL) TO THE CONDUIT CENTERLINE EXCEPT AS OTHERWISE SHOWN ON THE DRAWINGS.
11. ALL STEEL ADJACENT TO FACE OF CONCRETE SHALL HAVE A 2 1/2" CLEARANCE UNLESS OTHERWISE SPECIFIED.
12. REINFORCEMENT SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE STEEL, PER A.S.T.M. A-615-GRADE 60.
13. ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE "MANUAL OF STANDARD PRACTICE."
14. DIMENSIONS FROM FACE OF CONCRETE TO STEEL ARE TO CENTER LINE OF STEEL UNLESS OTHERWISE NOTED.
15. ALL STEEL THAT IS TO BE CONTINUOUS SHALL HAVE A MINIMUM LAP OF 30 BAR DIAMETERS OR 18" WHICHEVER IS GREATER.
16. ALL CONSTRUCTION JOINTS IN THE FOOTING OR SLABS AND WALLS SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED.
17. ALL EXPOSED EDGES SHALL BE FINISHED WITH A 3/4" CHAMFER.
18. 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.
19. THE INSPECTOR SHALL HAVE THE OPTION TO REQUIRE CONCRETE BACKFILL DURING CONSTRUCTION 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.
20. 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.
21. ALL BACKFILL AND FILLS OUTSIDE OF STREET RIGHT-OF-WAY SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY A.S.T.M. 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.
22. ALL BACKFILL AND FILLS WITHIN STREET RIGHTS-OF-WAY SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 306-1.3.4 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED AND INSPECTED BY THE DEPARTMENT. CONTRACTOR SHALL NOTIFY THE INSPECTOR AT LEAST 24 HOURS IN ADVANCE FOR SOIL TESTING AS REQUIRED BY THE INSPECTOR.
23. PIPE BEDDING SHALL BE:

    IN ACCORDANCE WITH LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD PLAN NO. 3092 UNLESS OTHERWISE NOTED.
24. PIPE SHALL BE EMBEDDED 5 INCHES INTO ALL STRUCTURES INCLUDING INLET AND HEADWALLS, UNLESS OTHERWISE SPECIFIED.
25. "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."
26. ALL CATCH BASINS WITHIN THE DEDICATED STREET RIGHT-OF-WAY SHALL BE CONSTRUCTED PER THE STREET PLANS.
27. THE CONTRACTOR SHALL PROVIDE TO THE SATISFACTION OF THE DIRECTOR OF PUBLIC WORKS A SYSTEM FOR CONTRIBUTORY DRAINAGE TO BE OPERABLE AT ALL TIMES UNTIL THIS STORM DRAIN SYSTEM IS ACCEPTED FOR MAINTENANCE. THIS MAY HAVE TO BE DESIGNED BY A CIVIL ENGINEER.
28. 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.
29. EXISTING UTILITIES SHALL BE MAINTAINED IN PLACE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
30. 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. 224-0, UNLESS OTHERWISE INDICATED.
31. 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.
32. MANHOLES SHALL USE THE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION 630-0 FOR THE "FRAME AND COVER" AND 635-1 FOR THE "STANDARD DROP STEP."
33. THIS STORM DRAIN WILL NOT BE ACCEPTED FOR MAINTENANCE UNTIL THE STREETS HAVE BEEN PAVED, MANHOLES BROUGHT TO GRADE AND THE SYSTEM CLEANED TO THE SATISFACTION OF THE DIRECTOR OF PUBLIC WORKS.
34. AN NPDES PERMIT SHALL BE REQUIRED FROM THE REGIONAL WATER QUALITY BOARD IS REQUIRED BEFORE ANY DISCHRAGE OF NON-STORM WATER INTO THE STORM DRAIN IS ALLOWED.
35. THE LATEST REVISED STANDARD PLAN OR DRAWING SHALL BE USED UNLESS NOTED OTHERWISE.

STORM WATER POLLUTION CONTROL REQUIREMENTS FOR STORM DRAIN CONSTRUCTION

ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEETFLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.

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.

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.

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 MEANS.

ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO ASO TO INHIBIT EROSION BY WIND AND WATER.

THE FOLLOWING BMPS, AS OUTLINED IN, BUT NOT LIMITED TO, THE BEST MANAGEMENT PRACTICE HANDBOOK, CALIFORNIA STORM WATER QUALITY TASK FORCE, SACRAMENTO, CALIFORNIA 1993, OR THE LATEST REVISED EDITION, MAY APPLY DURING CONSTRUCTION (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY COUNTY):

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
ESC52 – SAND BAG BARRIER
ESC53 – BRUSH OR ROCK FILTER
ESC54 – STORM DRAIN INLET PROTECTION

INDEX TO STANDARD DRAWINGS

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKDS

3092-1 PIPE BEDDING FOR PRIVATE DRAINS
6008-1 MINIMUM PUBLIC SAFETY REQUIREMENT FOR OPEN EXCAVATION

AMERICAN PUBLIC WORKS ASSOCIATION STANDARD PLANS

300-2 CURB OPENING CATCH BASIN
331-2 JUNCTION STRUCTURE – INLET > 24" OR 1/2 MAIN LINE
380-2 CONCRETE COLLAR FOR RCP 12" TO 72"

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORATION

D89 PIPE HEADWALLS

UNDERGROUND SERVICE ALERT

Call:Toll FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

"CAUTION": Remember that the USA Center notifies only those utilities belonging to the center. There could be other utilities present at the work site. The center will inform you of whom they will notify.

PRIVATE ENGINEERS NOTICE TO CONTRACTORS

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR SUBSTRUCTURES 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.

59138 — REGISTERED CIVIL ENGINEER No. 4/26/02 — DATE

MAP DATE IDENTIFIER
DATE OF LATEST CHANGE TO THIS MAP
04/25/02 BY: P.P.
DATE OF THIS PLOT
04/25/02

APPROVED BY — CITY ENGINEER 4/26/02 — DATE

Thomsen Engineering, Inc.
18611 E. Gale Ave.
Industry, CA 91748
(626) 965 9350

REGISTERED PROFESSIONAL ENGINEER HANS C. THOMSEN No 8244 Exp. 9-30-06 CIVIL STATE OF CALIFORNIA

NO.	REVISION	REVISED BY	APPROVED BY	DATE
1	[illegible]	[illegible]		4/28/05

REGISTERED PROFESSIONAL ENGINEER NICK V. NGUYEN NO. 59138 Exp. 06/30/03 CIVIL STATE OF CALIFORNIA

NICK V. NGUYEN 4/25/02 DATE

STORM DRAIN PLANS IN
TRACT No. 53170 M.T.D. No. 1675
CITY OF WALNUT

PLANS PREPARED UNDER THE SUPERVISION OF:

HUNSAKER & ASSOCIATES
IRVINE, INC.
PLANNING ▪ ENGINEERING ▪ SURVEYING
Three Hughes ▪ Irvine, CA 92618 ▪ PH: (949) 583-1010 ▪ FX: (949) 583-0759

DWG

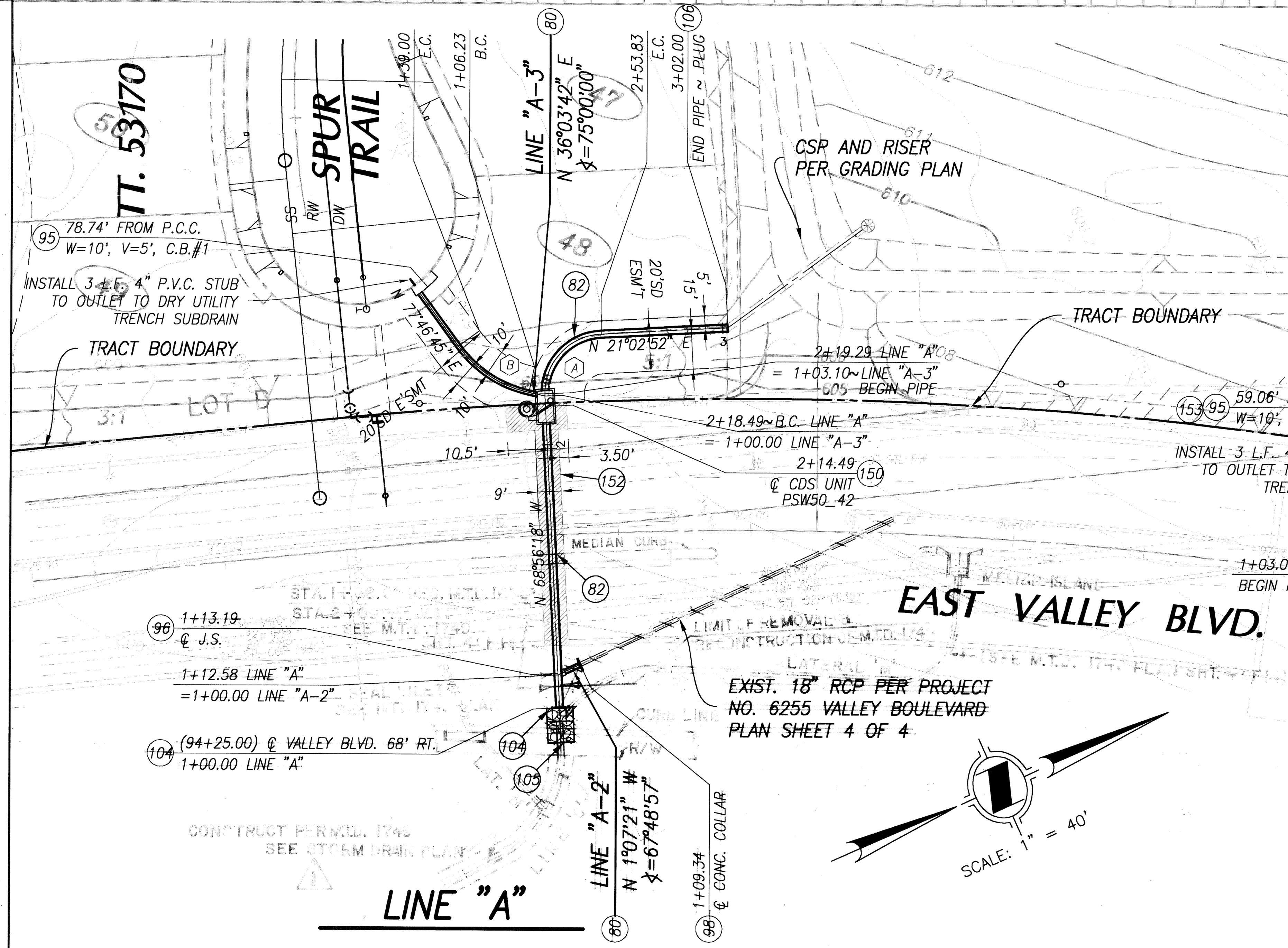
SHEET 1 OF 3

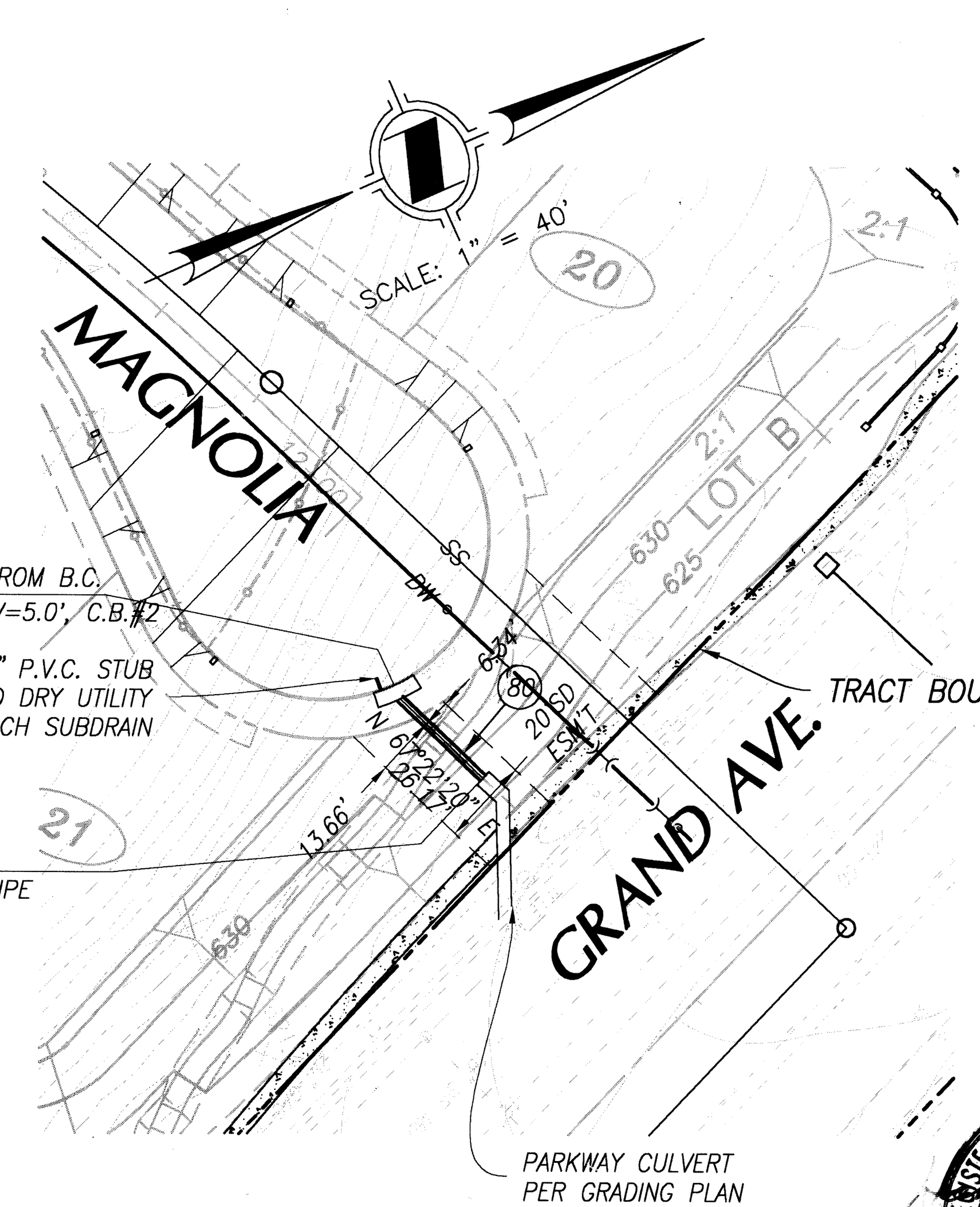
pps-mtd-dl.dwg 9/00

L:\Snow Creek\TR. 53170\Imp\Storm\SHT01.dwg

SCALE: HOR. 1"=40' VERT. 1"=8'

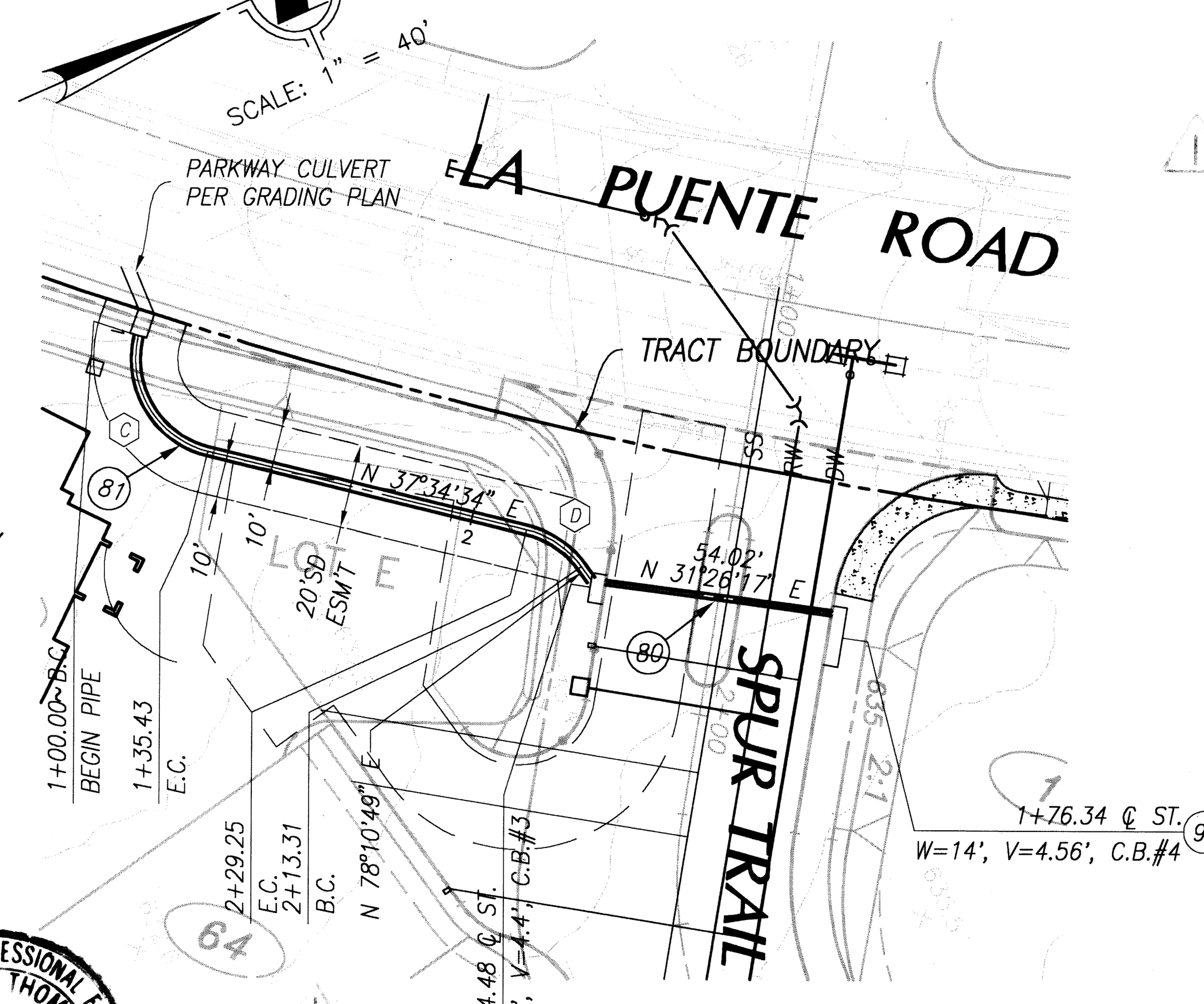
✱ CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION PRIOR TO START OF ANY CONSTRUCTION.





LINE "B"

NOT TO BE MAINTAINED BY L.A.C.F.C.D.

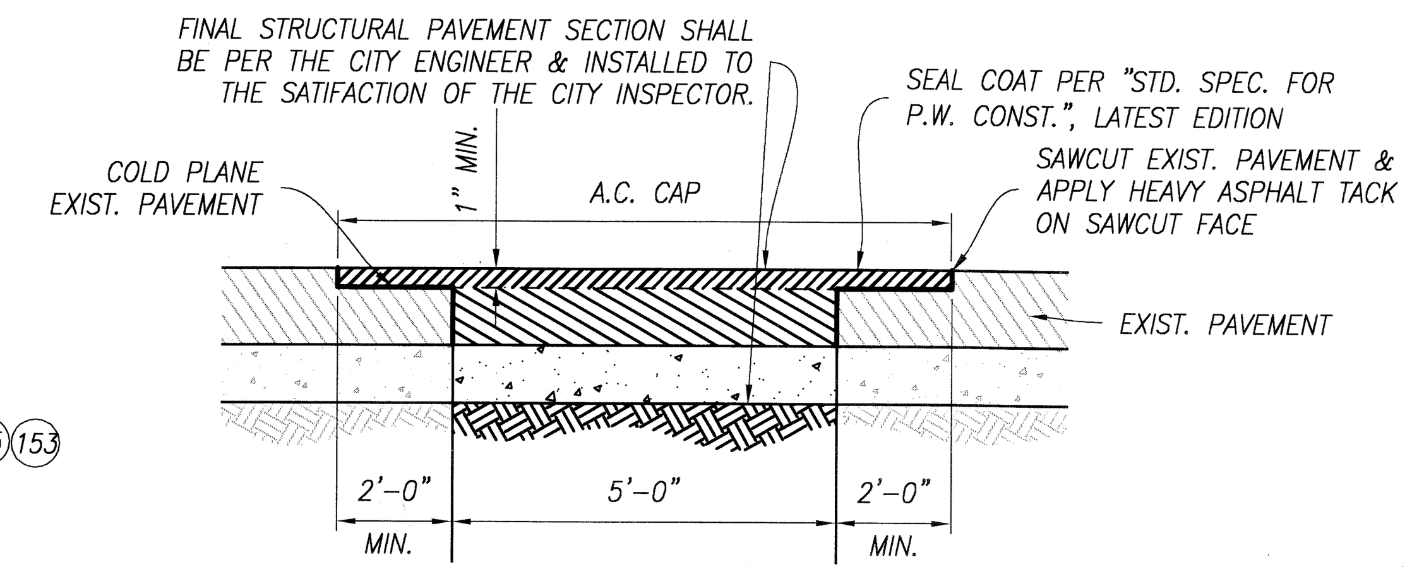


LINE "C"

NOT TO BE MAINTAINED BY L.A.C.F.C.D.

CONSTRUCTION NOTES

- (80) INST. 18" R.C.P. (SEE PROFILE FOR D-LOAD)
- (81) INST. 24" R.C.P. (SEE PROFILE FOR D-LOAD)
- (82) INST. 30" R.C.P. (SEE PROFILE FOR D-LOAD)
- (95) CONST. CURB OPENING CATCH BASIN PER A.P.W.A. STD. PLAN NO. 300-2 (W & V PER PLAN)
- (96) CONST. J.S. PER A.P.W.A. STD. PLAN NO. 331-2
- (98) ~~CONST. CONCRETE COLLAR PER A.P.W.A. STD. PLAN NO. 380-2~~
- (104) ~~CONST. HEADWALL PER CALTRANS STD. PLAN NO. D89, H=6'-2", L=12'~~
- (106) CONST. RIP-RAP PER DETAIL ON SHEET 3
- (109) CONST. BRICK AND MORTAR PLUG
- (150) CONST. CDS UNIT PSW50_42 PER DETAIL ON SHEET 3
- (152) CONST. A.C. REPAVEMENT PER DETAIL HEREON
- (153) CONST. FOSSIL FILTER PER DETAIL ON SHEET 3



152 A.C. REPAVEMENT DETAIL

N.T.S.

DATA TABLE

	BEARING/DELTA	RADIUS	LENGTH	TANGENT
A	89°59'10"	22.50	35.34	22.49
B	41°43'04"	45.00	32.76	17.15
C	90°12'41"	22.50	35.43	22.58
D	40°36'15"	22.50	15.95	8.32

40 20 0 40 120

GRAPHIC SCALE 1"=40'

MAP DATE IDENTIFIER
DATE OF LATEST CHANGE TO THIS MAP
04/25/02 BY: P.P.
DATE OF THIS PLOT
04/25/02

APPROVED BY [signature] 4/26/02
CITY ENGINEER DATE

Thomsen Engineering, Inc.
18611 E. Gale Ave.
Industry, CA 91748
(626) 965 9350

REGISTERED PROFESSIONAL ENGINEER HANS C. THOMSEN No. 8244 CIVIL STATE OF CALIFORNIA

NO.	REVISION	REVISED BY	APPROVED BY	DATE
1	[illegible]	T.E.I.	[signature]	9/28/05

REGISTERED PROFESSIONAL ENGINEER NICK V. NGUYEN NO. 59138 Exp. 06/30/03 CIVIL STATE OF CALIFORNIA

[signature] 4/26/02
NICK V. NGUYEN DATE

STORM DRAIN PLANS IN
TRACT No. 53170 M.T.D. No. 1675
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PLANNING ▪ ENGINEERING ▪ SURVEYING
Three Hughes ▪ Irvine, CA 92618 ▪ PH: (949) 583-1010 ▪ FX: (949) 583-0759

DWG

SHEET 2 OF 3

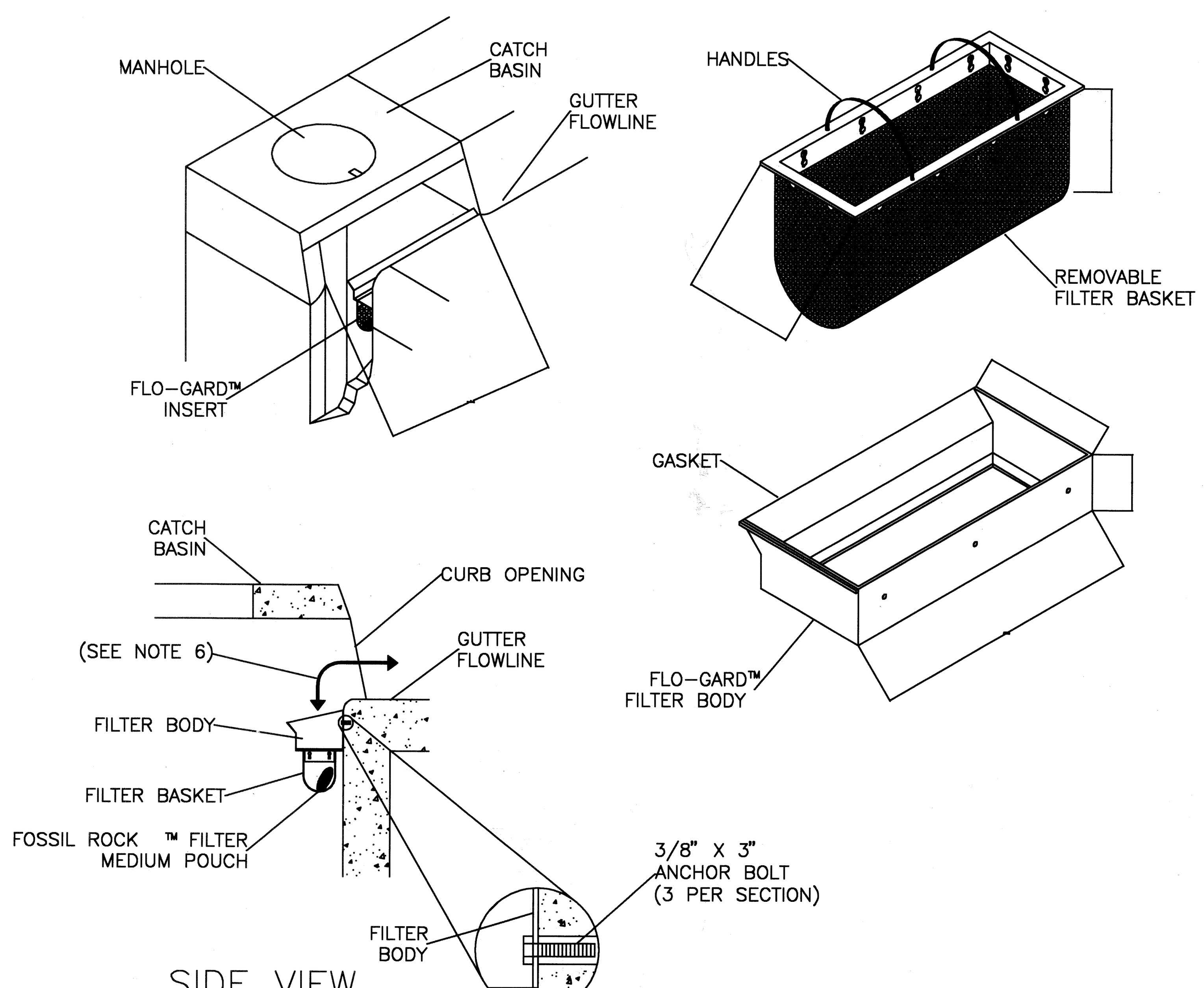
W.O. 61-375 BIN 139-A RM 410 DOC NO. 54786

L:\Snow Creek\TR. 53170\Imp\Storm\SHT02.dwg

185 R

NOTES:

1. "Flo-Gard" filter body shall be manufactured from petroleum resistant fiberglass which meets or exceeds PS 15-69.
2. All metal components shall be stainless steel (Type 304).
3. Removable filter basket shall be constructed from durable polypropylene woven monofilament geotextile.
4. "Flo-Gard" filter body shall be secured to catch basin wall with expansion anchor bolts and washer. (See detail)
5. "Flo-Gard" inserts are available in 24" or 30" length sections and may be installed in various combinations (end-to-end) to fit most catch basin widths.
6. Filter basket may be removed through curb opening for ease of maintenance.
7. Filter medium shall be Fossil Rock,™ in disposable pouches, installed and maintained in accordance with manufacturer recommendations.



SIDE VIEW

SCALE: NONE

FOSSIL FILTER™
FLO-GARD™
SUPPLEMENTAL INSERT

153 (CURB OPENING INLET)

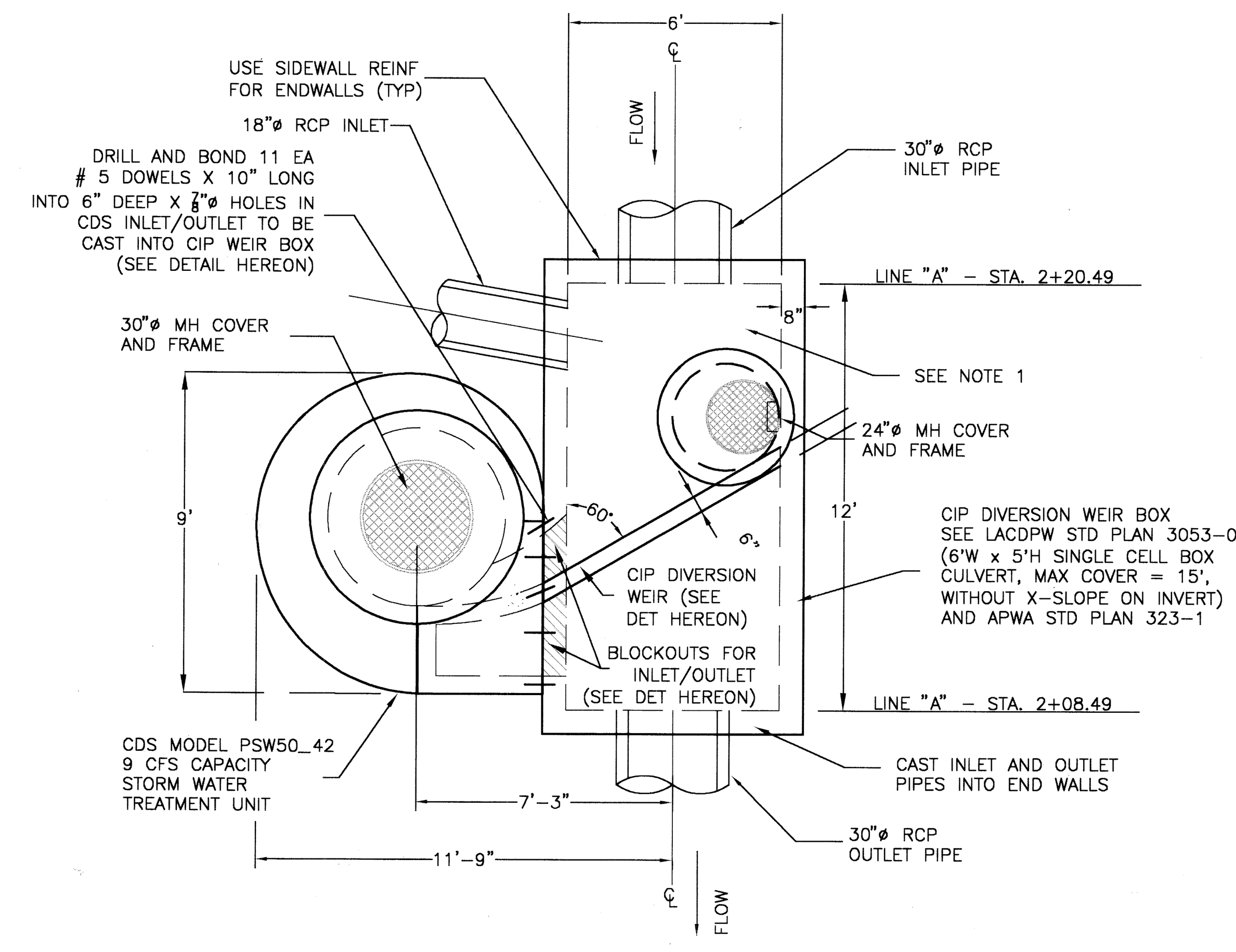
N.T.S.

KriStar Enterprises, Inc., Santa Rosa, CA (800) 579-8819

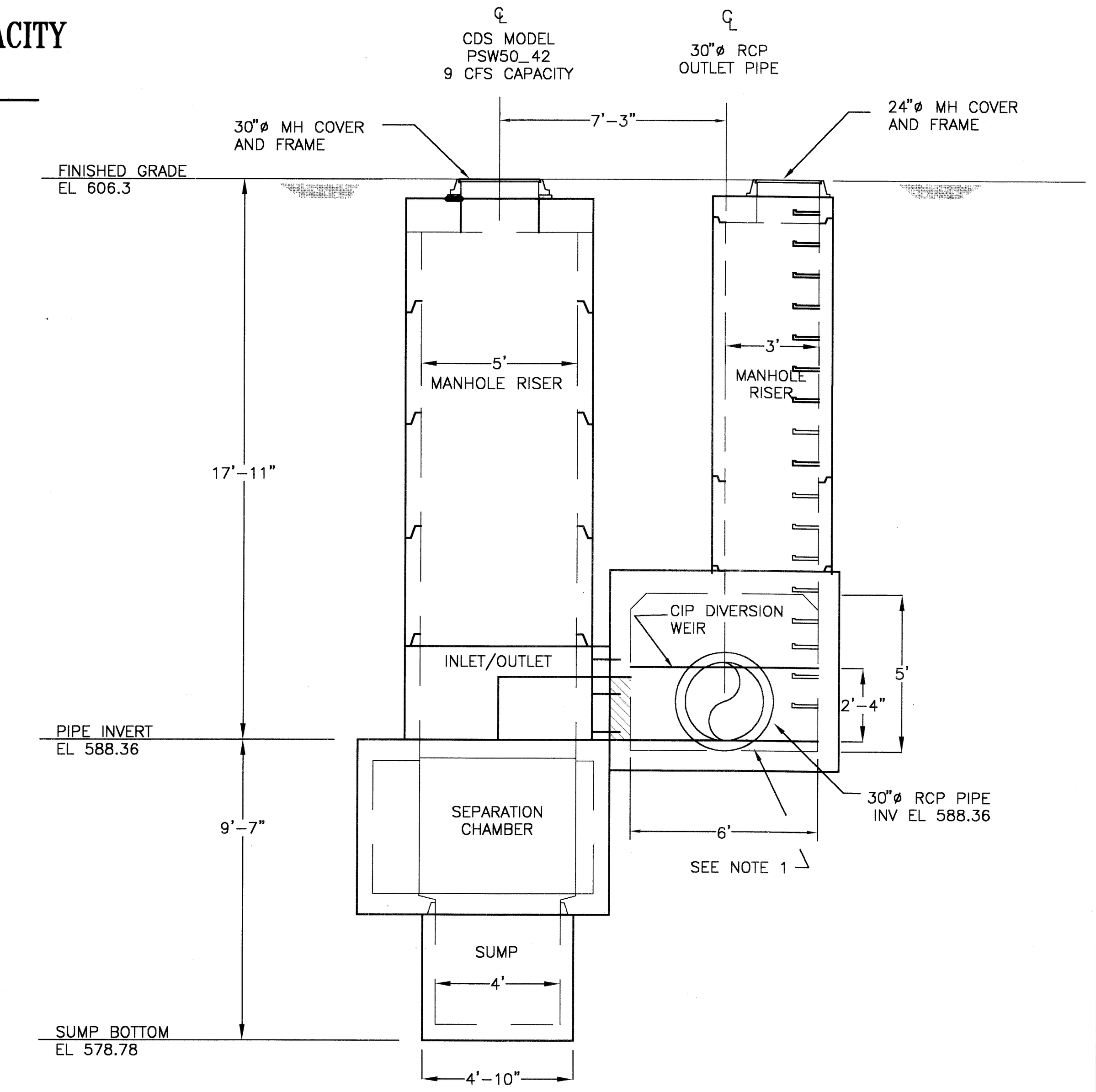
PATENT PENDING

150 CDS MODEL PSW50_42, 9.0 CFS CAPACITY STORM WATER TREATMENT UNIT

N.T.S.

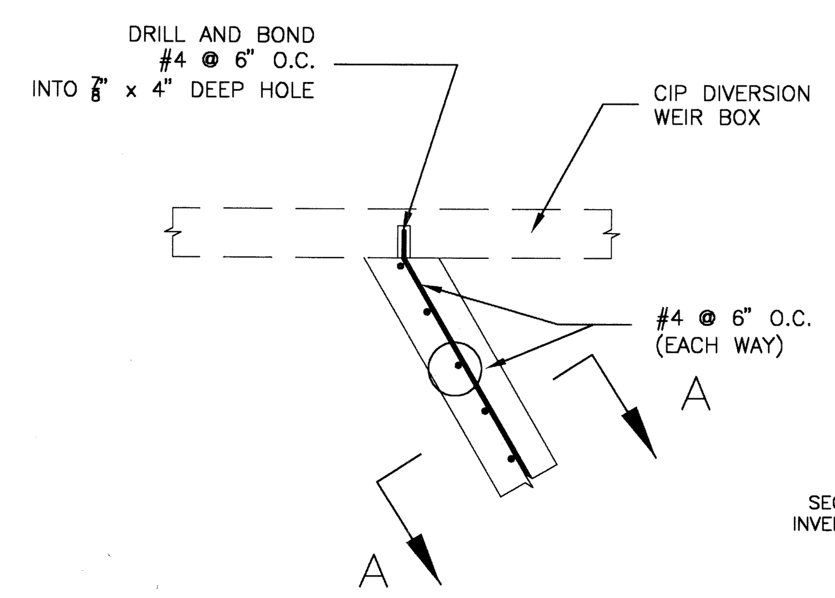


PLAN VIEW



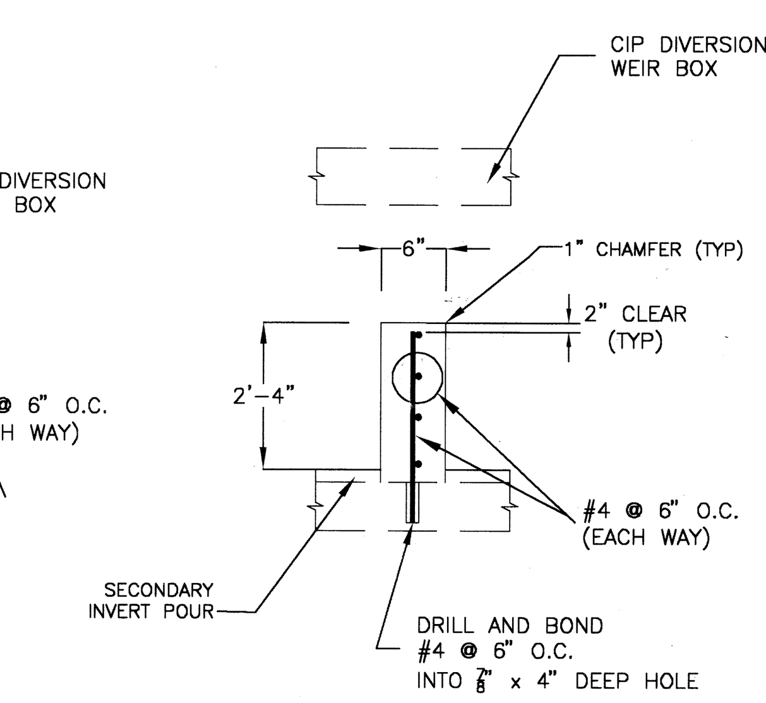
ELEVATION

(LOOKING UPSTREAM)



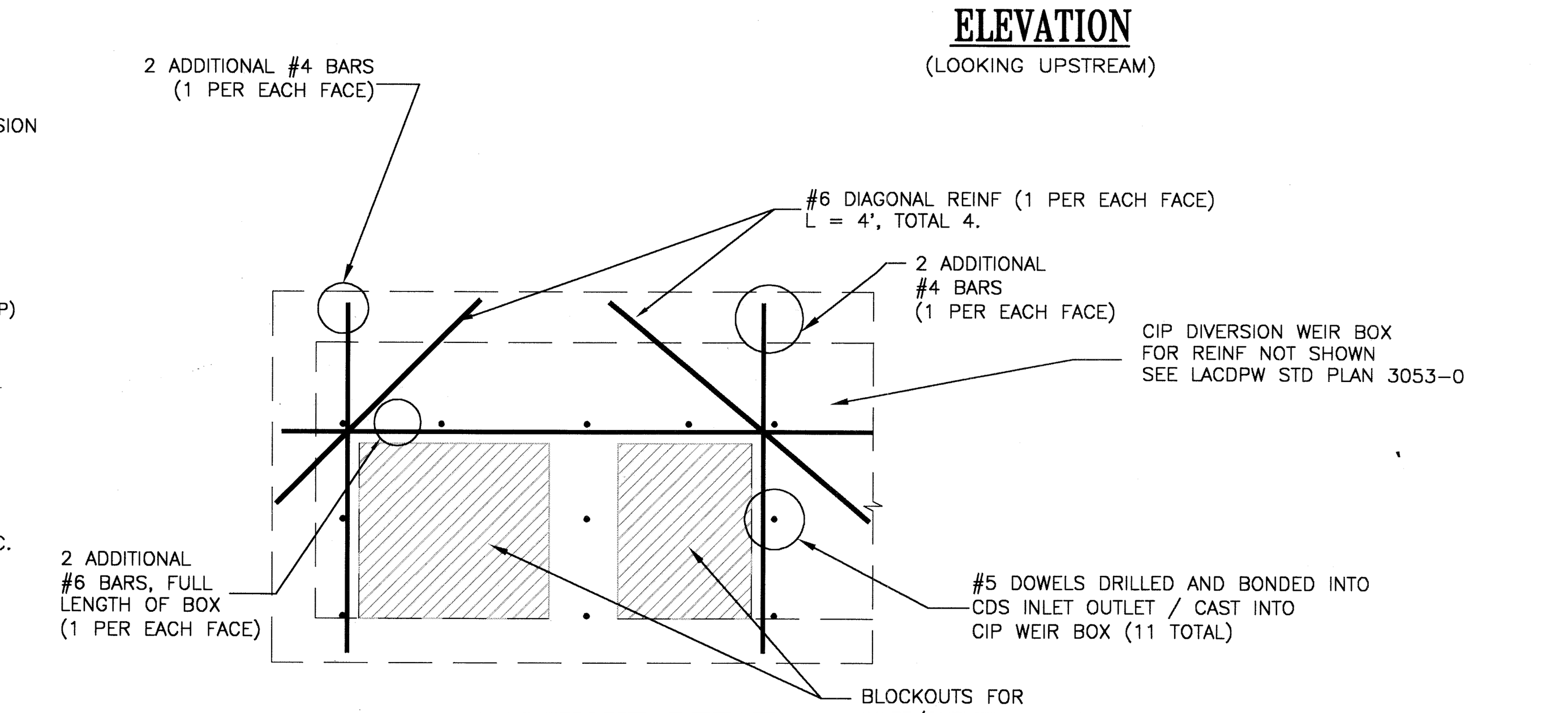
DIVERSION WEIR DETAIL

(NO SCALE)



SECTION A-A

(NO SCALE)

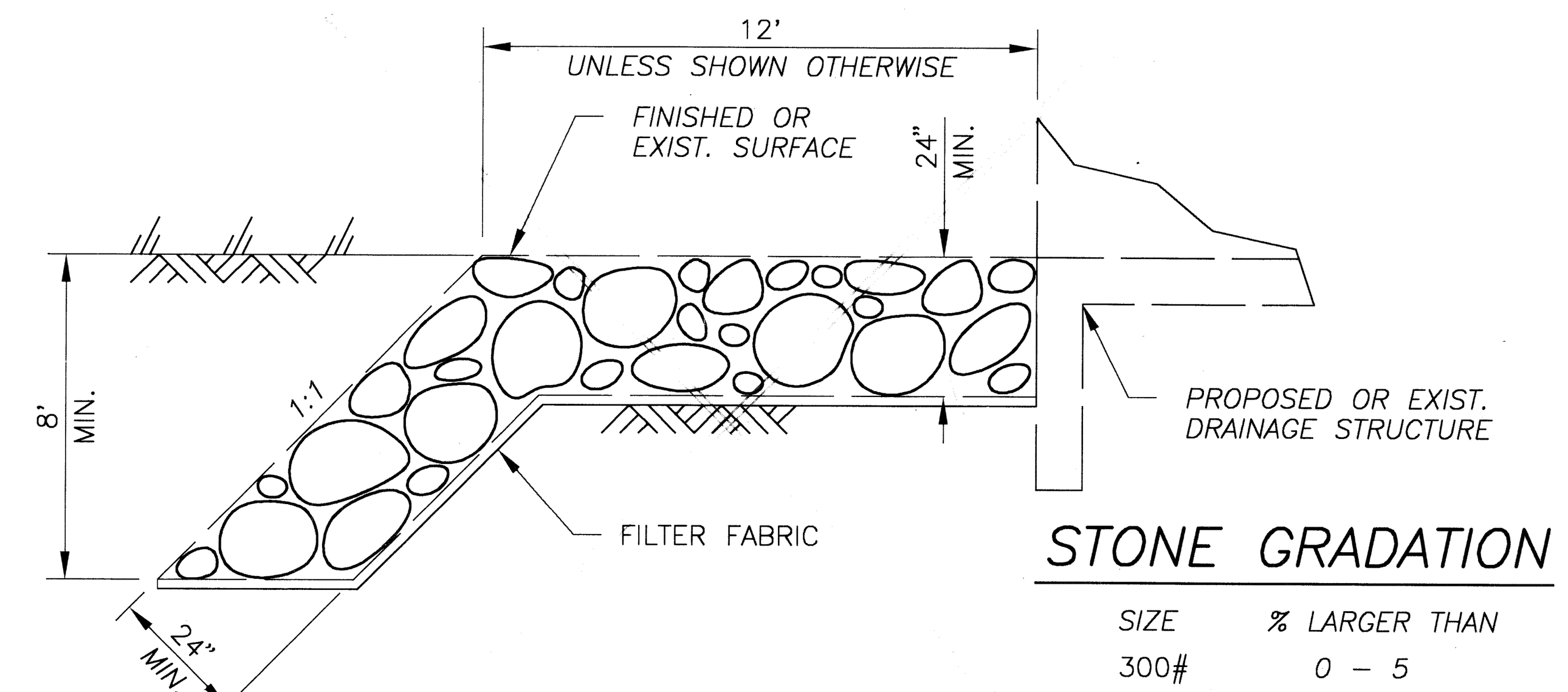


BLOCKOUT DETAIL

(NO SCALE)

NOTES:

1. CREATE SMOOTH SWALE THROUGH DIVERSION BOX WITH SECONDARY CONCRETE POUR IN FIELD.



STONE GRADATION

SIZE	% LARGER THAN
300#	0 - 5
150#	50 - 100
75#	95 - 100

105 RIP-RAP DETAIL

N.T.S.

Thomsen Engineering, Inc.
18611 E. Gale Ave.
Industry, CA 91748
(626) 965 9350

NO.	REVISION	REVISED BY	APPROVED BY	
1	[illegible]	[illegible]	(signature)	4/28/05

APPROVED BY (signature) 4/26/02
CITY ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER NICK V. NGUYEN NO. 59138 Exp. 06/30/03 CIVIL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER FRANK C. THOMSEN No. 8244 CIVIL STATE OF CALIFORNIA

NICK V. NGUYEN 4/22/02 DATE

STORM DRAIN PLANS IN
TRACT No. 53170 M.T.D. No. 1675

CITY OF WALNUT

PLANS PREPARED UNDER THE SUPERVISION OF:

HUNSAKER & ASSOCIATES IRVINE, INC.
PLANNING ▪ ENGINEERING ▪ SURVEYING
Three Hughes ▪ Irvine, CA 92618 ▪ PH: (949) 583-1010 ▪ FX: (949) 583-0759

DWG

W.O. 61-375 BIN 139-A RM: 410 DOC NO. 54786

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