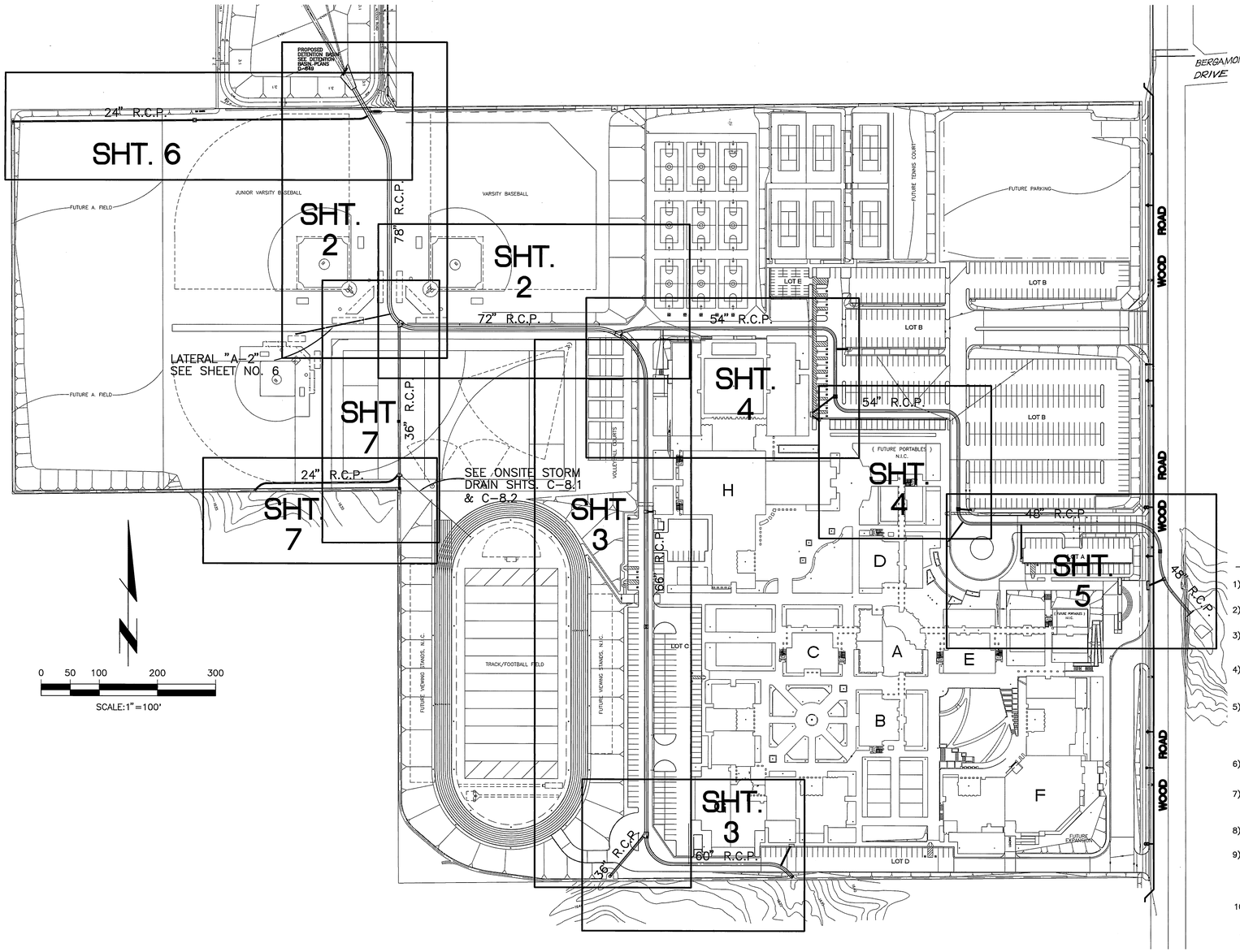

INDEX MAP

CONSTRUCTION NOTES

1. CONSTRUCT 78" R.C.P.–1100 D.
2. CONSTRUCT 72" R.C.P.–1100 D.
3. CONSTRUCT 66" R.C.P.–1350 D.
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20. INSTALL TRASH RACK PER A.P.W.A. STD. DWG. NO. 361–0, CASE B. SEE DETAIL ON SHT. NO. 7.
21. CONSTRUCT GUARD RAIL PER CITY OF RIVERSIDE STD. DWG. NO. 650.
22. INSTALL 6' HIGH CHAINLINK FENCE.

NOTICE TO CONTRACTOR:

1) CONTRACTOR SHALL PROVIDE 911 SHORING FOR SEWER AND STORM DRAIN CONSTRUCTION AS NECESSARY TO MAINTAIN ALL EXISTING TRAFFIC LANES.
2) CONTRACTOR SHALL REMOVE AND REPLACE AC PAVEMENT TO MATCH EXISTING FOR SEWER AND STORM DRAIN CONSTRUCTION.
3) CONTRACTOR SHALL PROVIDE AND PROCESS DETOURING PLANS FOR WOOD ROAD STORM DRAIN SYSTEM PRIOR TO OBTAINING CONSTRUCTION PERMIT.
4) AT THE END OF WORK DAY, EXCAVATIONS SHALL BE FENCED AND BARRICADED. TRENCHES SHALL BE FILLED, PAVED AND BARRICADED TO ALLOW SAFE MOVEMENT OF TRAFFIC.
5) THE CONTRACTOR SHALL MAINTAIN ON A 24 HOUR BASIS ALL SIGNS & DELINEATION BARRICADES TO INSURE PROPER FLOW AND SAFETY OF TRAFFIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL DEVICES NECESSARY TO ASSURE SAFETY TO THE PUBLIC AT ALL TIMES DURING CONSTRUCTION.
6) THE CONTRACTOR SHALL BE REQUIRED TO REPLACE STRIPING AND SIGNS TO ITS ORIGINAL STATE AFTER COMPLETION OF CONSTRUCTION.
7) CONTRACTOR SHALL PROVIDE A MINIMUM OF ONE FOURTEEN FOOT WIDE LANE IN EACH DIRECTION AND ACCESS TO ALL ADJACENT PROPERTIES DURING AND AFTER WORKING HOURS ON WOOD ROAD.
8) CONTRACTOR SHALL PHASE STORM DRAIN CONSTRUCTION ON WOOD ROAD IN ORDER TO PROVIDE ONE TRAVEL LANE IN EACH DIRECTION.
9) CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING ALL NECESSARY CALCULATIONS, PLANS AND DETAILS FOR ALL SHORING REQUIRED. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROCESSING SHORING PLANS THRU THE LOCAL AGENCY FOR APPROVAL PRIOR TO OBTAINING CONSTRUCTION PERMIT.
10) CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

HOLD HARMLESS INDEMNIFICATION CLAUSE:

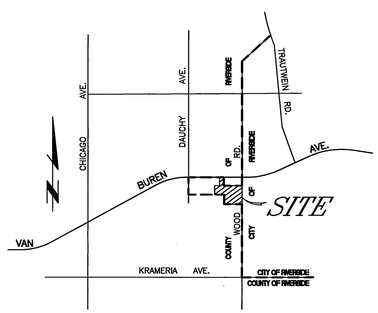
THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT, THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY OF RIVERSIDE, THE OWNER, AND THE PRIVATE ENGINEERS HARMLESS FOR ANY AND ALL LIABILITY; REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

EXISTING UNDERGROUND STRUCTURES:

ALL UNDERGROUND UTILITIES OR STRUCTURE, REPORTED OR FOUND ON PUBLIC RECORDS, ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE OWNER, BY ACCEPTING THESE PLANS OR PROCEEDING WITH THE IMPROVEMENTS HEREON, AGREES TO ASSUME LIABILITY AND TO HOLD THE ENGINEER HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED OR INDICATED ON PUBLIC RECORDS, OR THOSE CONSTRUCTED AT VARIANCE WITH REPORTED ORE RECORD LOCATIONS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHERS FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF ALL UTILITIES STRUCTURES CONCERNED BEFORE STARTING WORK.

GENERAL NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT OF WAY IN ACCORDANCE WITH THE PROVISIONS OF THE LAW AS IT AFFECT EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.
2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, STANDARD DRAWING NO. 10 AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
3. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
4. QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING OR RE–ESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
6. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
7. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA). PHONE # 1–800–227–2600, TWO WORKING DAYS BEFORE DIGGING. NO CONSTRUCTION PERMIT WILL BE ISSUED BY THE PUBLIC WORKS DEPARTMENT INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY U.S.A.
8. BEFORE THE RIP RAP IS ACCEPTED, AS PLACED, AT THE OUTLET OF ANY DRAINAGE STRUCTURE, IT SHALL BE TESTED UNDER FLOWS AS CLOSE AS POSSIBLE TO DESIGN CONDITIONS WITH WATER OBTAINED FROM HYDRANTS IN THE IMMEDIATE AREA.
9. PIPE BEDDING SHALL BE PER CITY OF RIVERSIDE STANDARD DRAWING NO. 452, CASE II.



VICINITY MAP
N.T.S.

NOTE:

PRIVATE STORM DRAIN AND DETENTION BASIN SYSTEM ON THIS PLAN TO BE MAINTAINED BY RIVERSIDE UNIFIED SCHOOL DISTRICT.

INDEXED 6-18-97 GH

IMPORTANT NOTICE
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REGISTERED PROFESSIONAL ENGINEER — Haidook I. Aghaian — R.C.E. NO. 043293 — Exp. 3-31-00 — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
Haidook Aghaian 5/7/97
HAIDOOK I. AGHAIAN DATE
R.C.E. 043293 – EXP. 3/31/00

APPROVED BY:

DATE

THIENES ENGINEERING
CIVIL ENGINEERING•LAND SURVEYING
16800 VALLEYVIEW AVENUE
LA MIRADA, CALIFORNIA 90639
(714) 521–4811

1" = 40'

BENCHMARK:
BM – SET P.K. NAIL & TAG E'LY SIDE OF TRAUTWEIN ROAD, 100'± N'LY OF VAN BUREN BOULEVARD, N'LY WALL OF CATCH BASIN, 2' E'LY OF CURB FACE IN S/W.
ELEV. = 1674.985 ADJ. LL 43/PG. 10

MARK	REVISIONS	APPR.	DATE
1	ADDED CONSTRUCTION NOTES 21 AND 22.	VHC	9/11/97

DESIGNED BY H.A/B.W DRAWN BY B.W. CHECKED BY H.A.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	[illegible]	6/4/97
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
DEPUTY P.W. DIR.	[illegible]	6/6/97
STREET SERVICES	[illegible]	5-31-97
	VHC	6/12/97

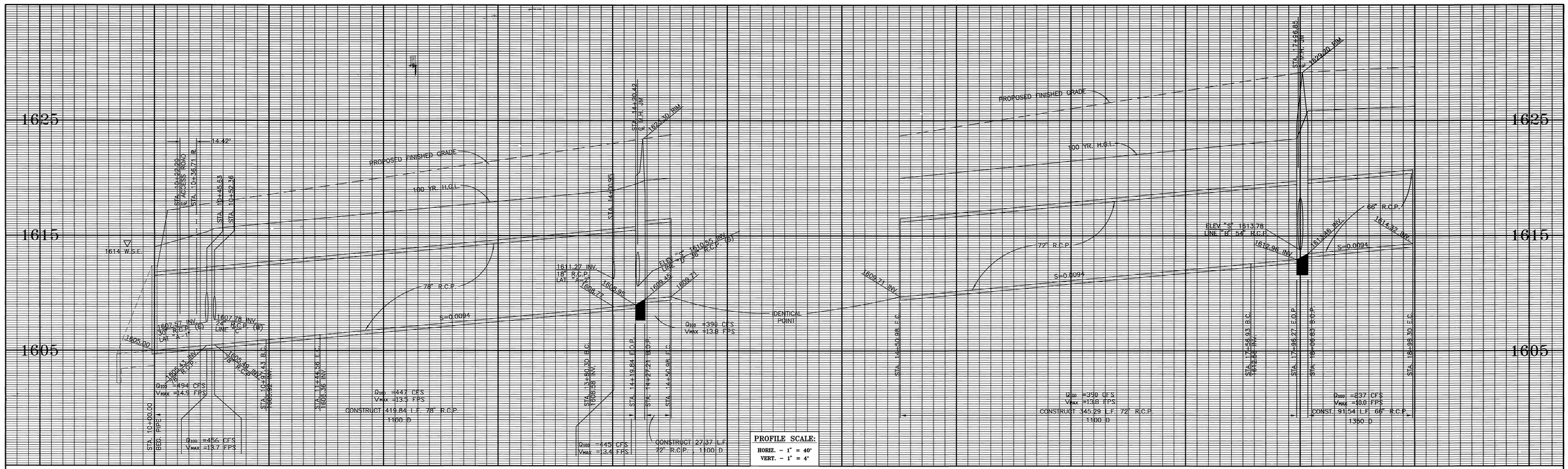
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 6/13/97

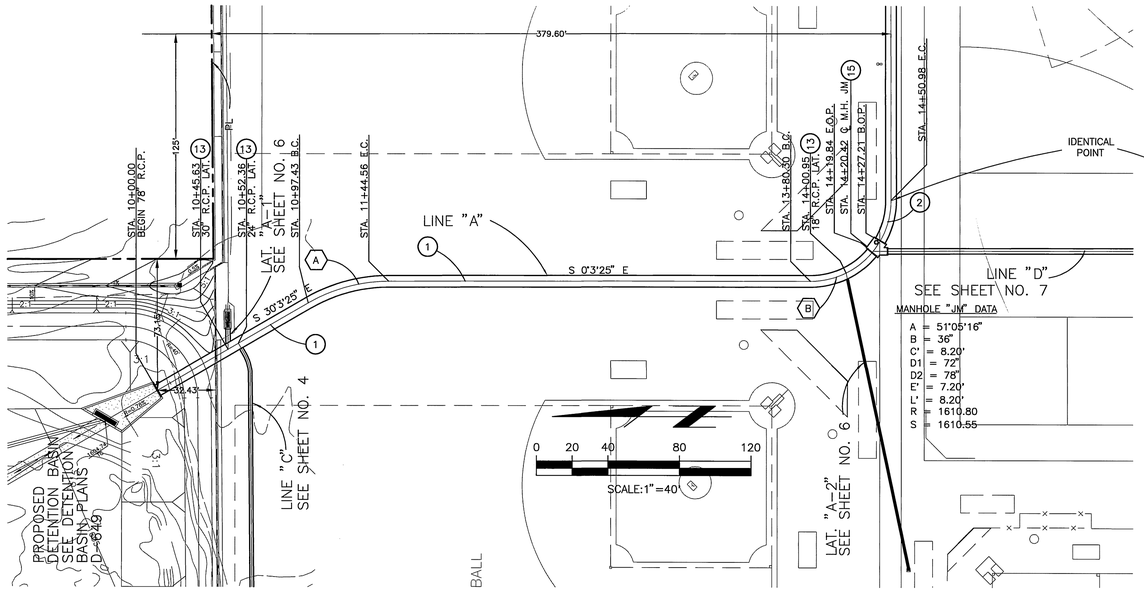
RIVERSIDE HIGH SCHOOL
STORM DRAIN
TITLE SHEET

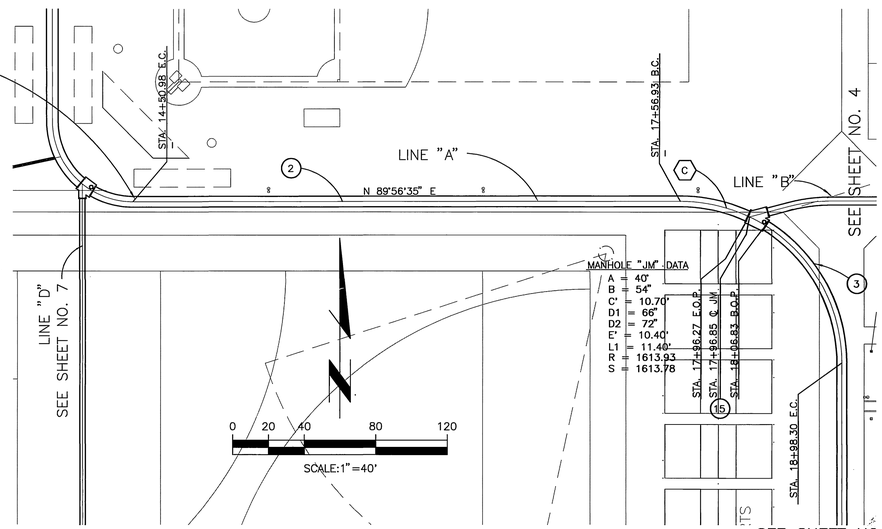
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PROJECT NO. D-648
SHEET 1 OF 7
FILE NO.

Last Update: 4/25/97







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CURVE DATA				
⬡	△	R	L	T
A	30°00'00"	90.00'	47.12'	24.16'
B	90°00'00"	45.00'	70.69'	45.00'
C	90°00'00"	90.00'	141.37'	90.00'

NOTE:

PRIVATE STORM DRAIN AND DETENTION BASIN SYSTEM ON THIS PLAN TO BE MAINTAINED BY RIVERSIDE UNIFIED SCHOOL DISTRICT.

INDEXED 6-18-97 HH

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REGISTERED PROFESSIONAL ENGINEER
Haidook I Aghaian
R.C.E. No. 043293
Exp. 3-31-00
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
Haidook Aghaian 5/7/97
HAIDOOK I. AGHAIAN DATE
R.C.E. 043293 – EXP. 3/31/00

APPROVED BY:

1" = 40'
DATE

THIENES ENGINEERING
CIVIL ENGINEERING • LAND SURVEYING
16800 VALLEYVIEW AVENUE
LA MIRADA, CALIFORNIA 90639
(714) 521-4811

BENCHMARK:
BM – SET P.K. NAIL & TAG E'LY SIDE OF TRAUTWEIN ROAD. 100'± N'LY OF VAN BUREN BOULEVARD, N'LY WALL OF CATCH BASIN, 2' E'LY OF CURB FACE IN S/W. ELEV. = 1674.985 ADJ. LL 43/PG. 10

MARK	REVISIONS	APPR.	DATE

DESIGNED BY H.A./B.W. DRAWN BY B.W. CHECKED BY H.A.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
DEPUTY P.W. DIR.		
STREET SERVICES		

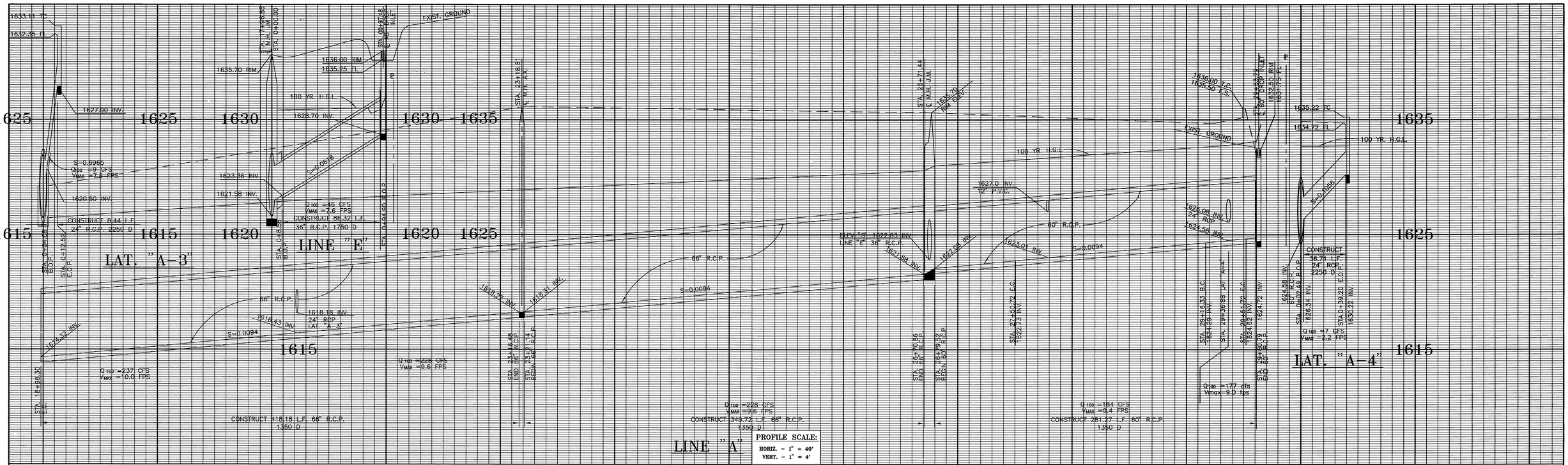
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 6/13/97

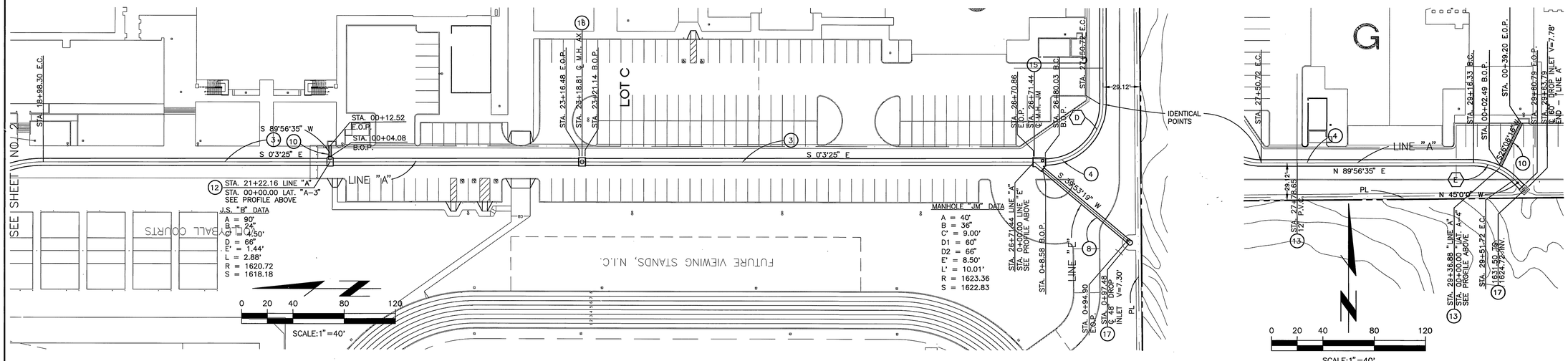
RIVERSIDE HIGH SCHOOL
STORM DRAIN
PLAN & PROFILE

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PROJECT NO. D-648
SHEET 2 OF 7
FILE NO.

Last Update: 4/25/97
F:\1375\SD-2





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CURVE DATA				
⬡	△	R	L	T
D	90°00'00"	45.00'	70.69'	45.00'
E	45°03'25"	45.00'	35.39'	18.67'

NOTE:

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INDEXED 6-18-97 GH

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REGISTERED PROFESSIONAL ENGINEER ★ Haidook I. Aghaian ★ R.C.E. NO. 043293 Exp. 3-31-00 ★ STATE OF CALIFORNIA ★

PREPARED UNDER THE DIRECTION OF:
Haidook Aghaian 5/7/97
HAIDOOK I. AGHAIAN DATE
R.C.E. 043293 – EXP. 3/31/00

APPROVED BY: _____ DATE

1" = 40'

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MARK	REVISIONS	APPR.	DATE

DESIGNED BY H.A./B.W. DRAWN BY B.W. CHECKED BY H.A.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
DEPUTY P.W. DIR.		6/16/97
STREET SERVICES		5/16/97
		6/16/97

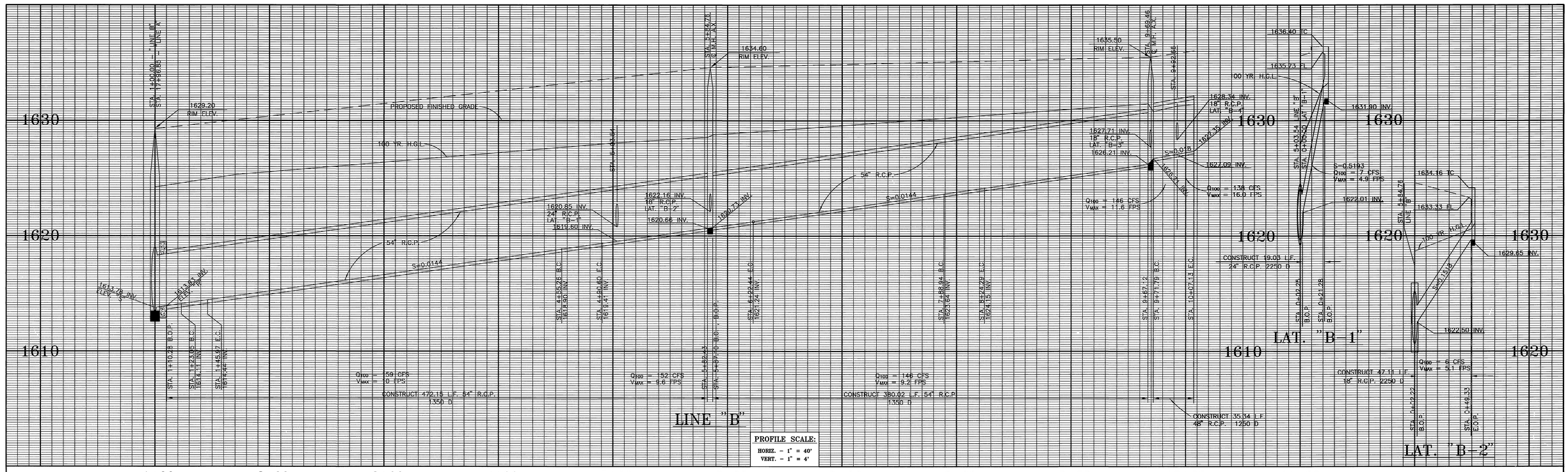
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 6/13/97

RIVERSIDE HIGH SCHOOL
STORM DRAIN
PLAN & PROFILE

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

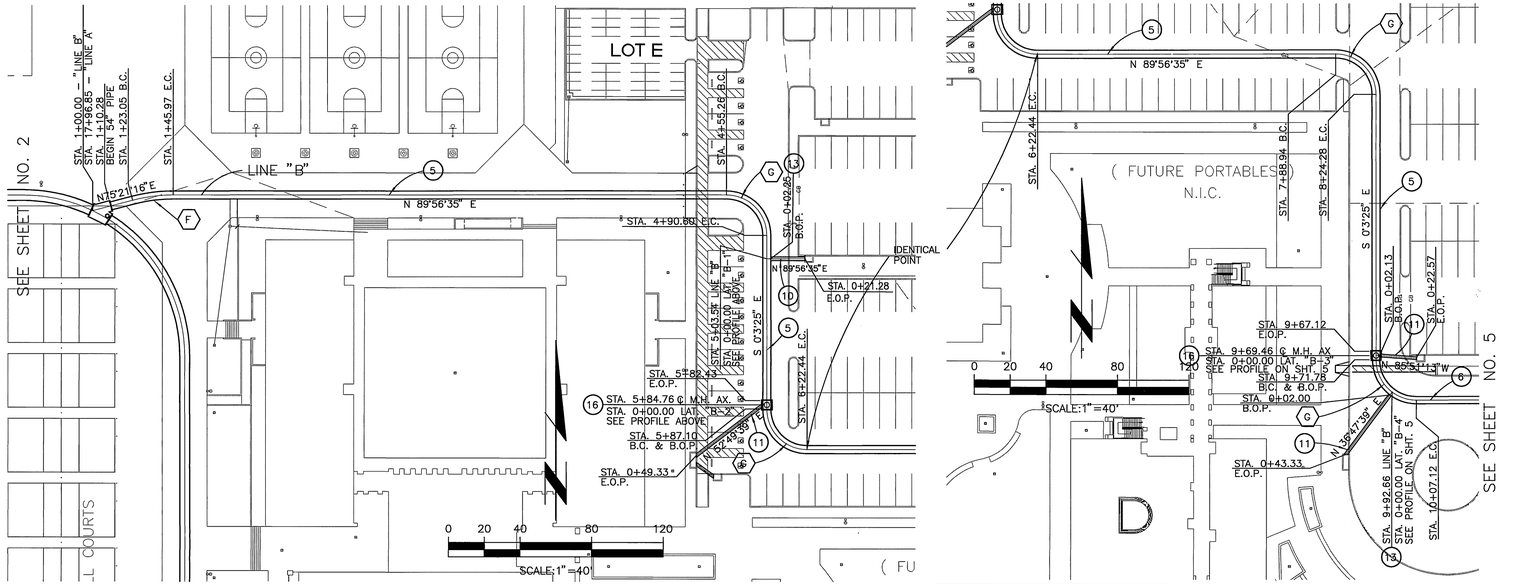
PROJECT NO. D-648
SHEET 3 OF 7
FILE NO.

Last Update: 4/25/97
E:\1375\3D-3



PROFILE SCALE:
HORIZ. – 1" = 40'
VERT. – 1" = 4'

LINE "B"



CURVE DATA				
⬡	△	R	L	T
F	14°35'19"	90.00'	22.92'	11.52'
G	90°00'00"	22.50'	35.34'	22.50'

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INDEXED 6-18-97 GH

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TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE
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REGISTERED PROFESSIONAL ENGINEER — Haidook I. Aghaian — R.C.E. NO. 043293 — Exp. 3-31-00 — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
Haidook Aghaian 5/7/97
HAIDOOK I. AGHAIAN — DATE
R.C.E. 043293 – EXP. 3/31/00

APPROVED BY: _____ DATE

THIENES ENGINEERING
CIVIL ENGINEERING•LAND SURVEYING
16800 VALLEYVIEW AVENUE
LA MIRADA, CALIFORNIA 90639
(714) 521-4811

1" = 40'

BENCHMARK:
BM – SET P.K. NAIL & TAG E'LY SIDE OF TRAUTWEIN ROAD. 100'± N'LY OF VAN BUREN BOULEVARD, N'LY WALL OF CATCH BASIN, 2' E'LY OF CURB FACE IN S/W.
ELEV. = 1674.985 ADJ. LL 43/PG. 10

MARK	REVISIONS	APPR.	DATE

DESIGNED BY H.A./B.W. DRAWN BY B.W. CHECKED BY H.A.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	[signature]	6/13/97
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
DEPUTY P.W. DIR.	[signature]	6/10/97
STREET SERVICES	[signature]	5/16/97 6/4/97

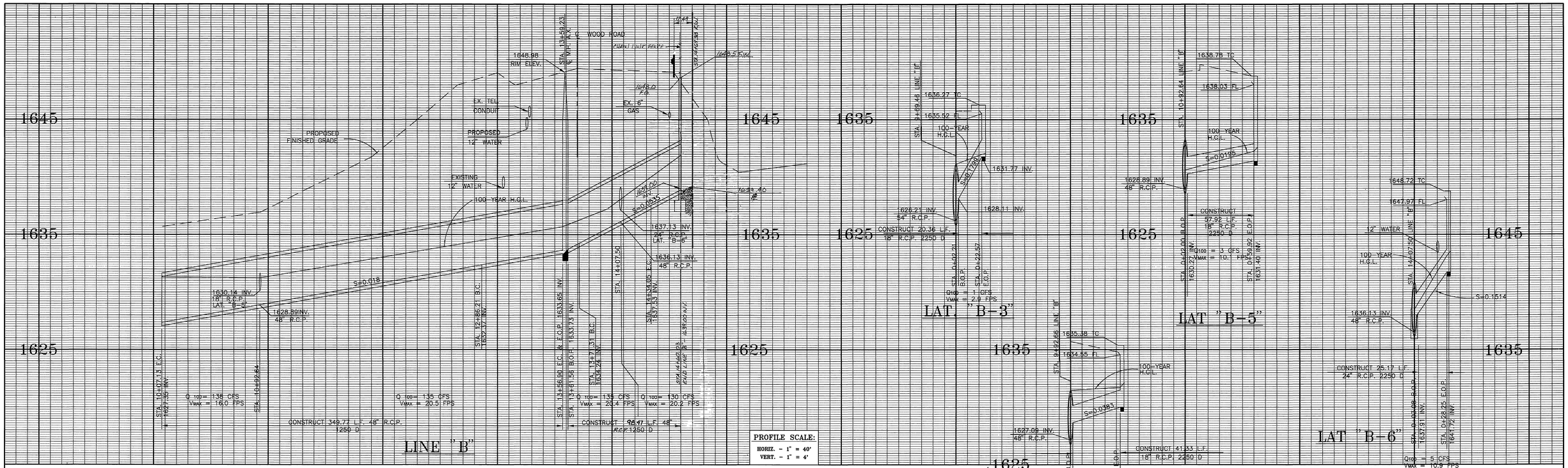
APPROVED BY [signature]
DIRECTOR OF PUBLIC WORKS
DATE 6/13/97

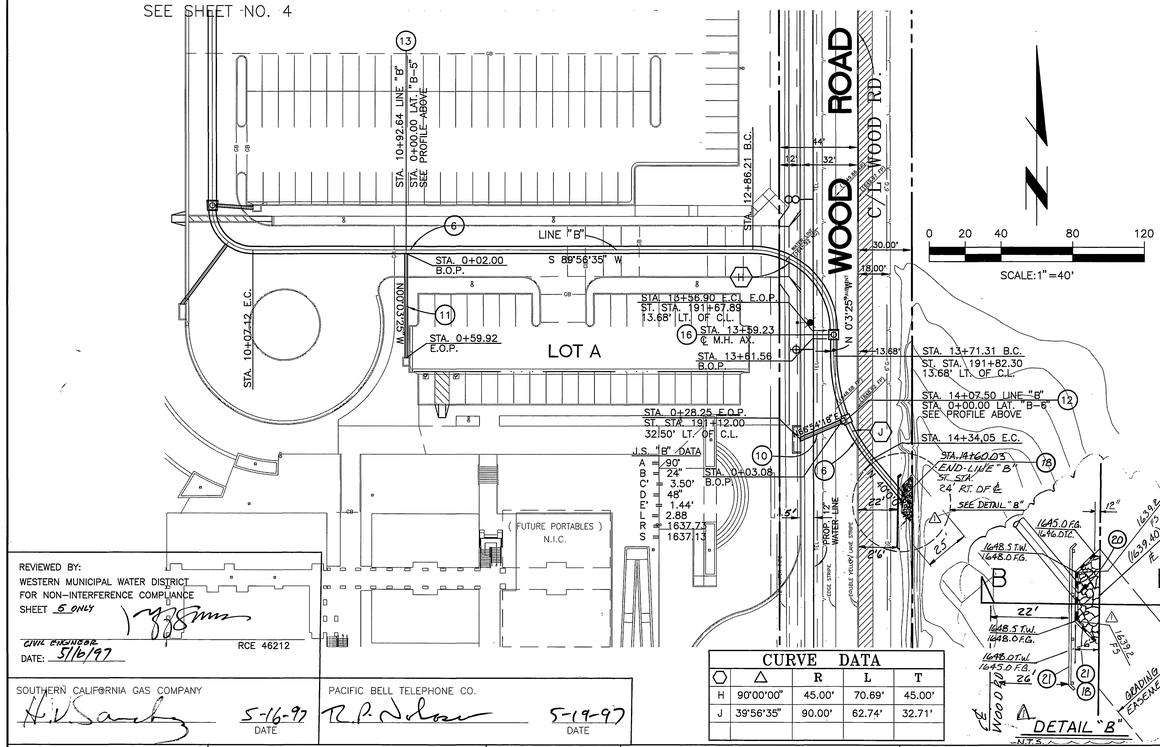
RIVERSIDE HIGH SCHOOL
STORM DRAIN
PLAN & PROFILE

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PROJECT NO. D-648
SHEET 4 OF 7
FILE NO.

Last Update: 4/25/97
E:\1375\SD-4





CONSTRUCTION NOTES

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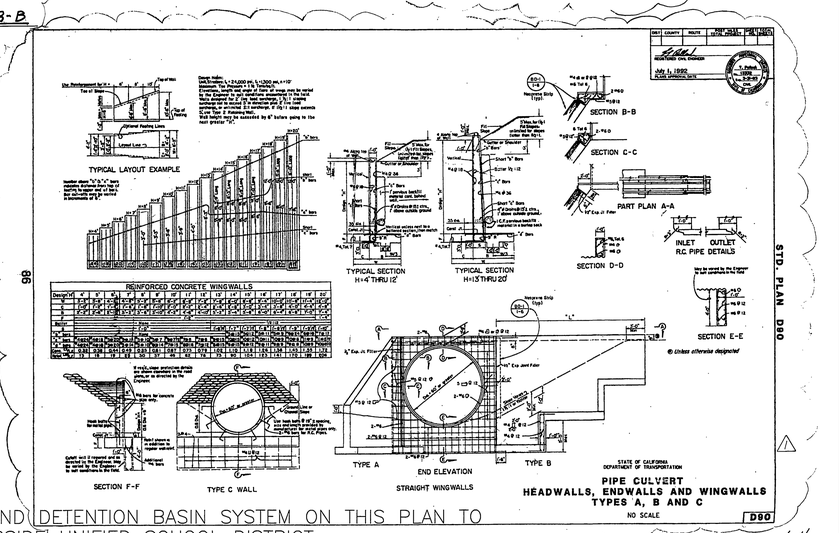
18. CONSTRUCT SINGLE HEADWALL PER CALTRANS STD. DRAWING NO. D 90. SEE DETAIL ON SHT. NO. 5.
19. INSTALL 3' THICK 1/4 TON RIP–RAP EMBEDDED IN CONCRETE.
20. INSTALL TRASH RACK PER A.P.W.A. STD. DWG. NO. 361–0, CASE B. SEE DETAIL ON SHT. NO. 7.
21. CONSTRUCT GUARD RAIL PER CITY OF RIVERSIDE STD. DWG. NO. 650. **NOTE:**
22. INSTALL 6' HIGH CHAIN LINK FENCE.

PRIVATE STORM DRAIN AND DETENTION BASIN SYSTEM ON THIS PLAN TO BE MAINTAINED BY RIVERSIDE UNIFIED SCHOOL DISTRICT.

INDEXED 6-18-97 GH

CURVE DATA				
◇	△	R	L	T
H	90°00'00"	45.00'	70.69'	45.00'
J	39°56'35"	90.00'	62.74'	32.71'



SECTION "A-A"

SECTION "B-B"

DETAIL "B"

REVIEWED BY:
WESTERN MUNICIPAL WATER DISTRICT
FOR NON–INTERFERENCE COMPLIANCE
SHEET 5 ONLY
CIVIL ENGINEER RCE 46212
DATE: 5/16/97

SOUTHERN CALIFORNIA GAS COMPANY — DATE 5-16-97

PACIFIC BELL TELEPHONE CO. — DATE 5-19-97

IMPORTANT NOTICE
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PREPARED UNDER THE DIRECTION OF:
HAIDOOK I. AGHAIAN
R.C.E. 043293 – EXP. 3/31/00
5/16/97 DATE

APPROVED BY: _____ DATE

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MARK	REVISIONS	APPR.	DATE
⚠	REVISED INLET STRUCTURE AND HEADWALL DETAIL, ADDED DETAIL "B", SECTION "B-B" AND CONSTRUCTION NOTE'S 21 AND 22.	LWK	6/4/97

DESIGNED BY H.A./B.W. DRAWN BY B.W. CHECKED BY H.A.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	BW	6/4/97
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
DEPUTY P.W. DIR.	RWL	6/4/97
STREET SERVICES	RW	6/6/97

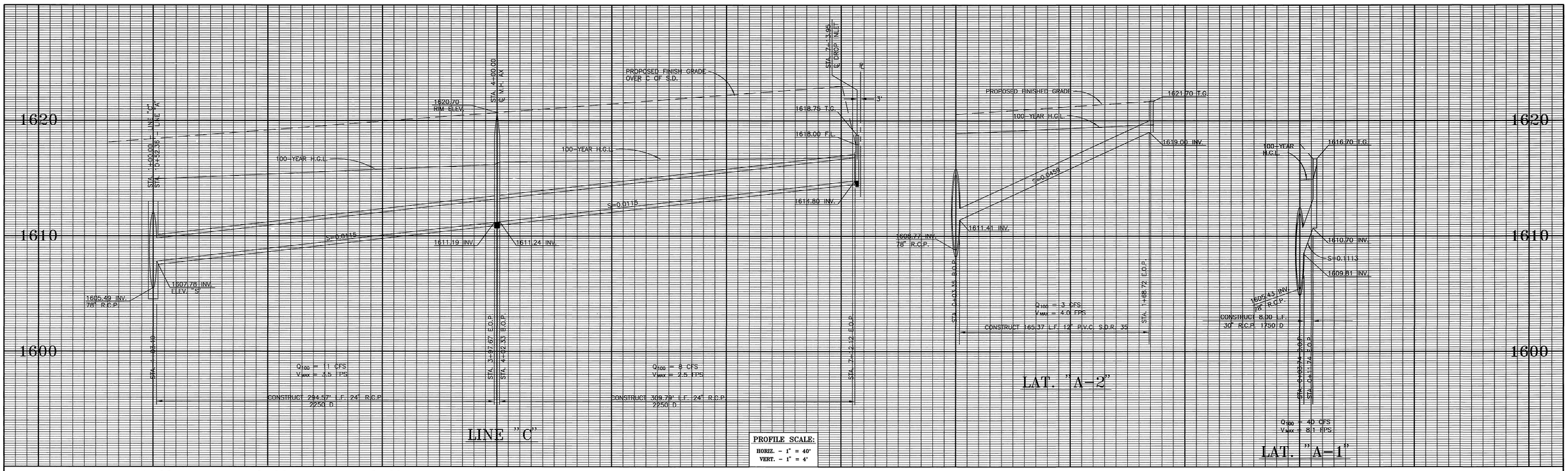
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 6/13/97

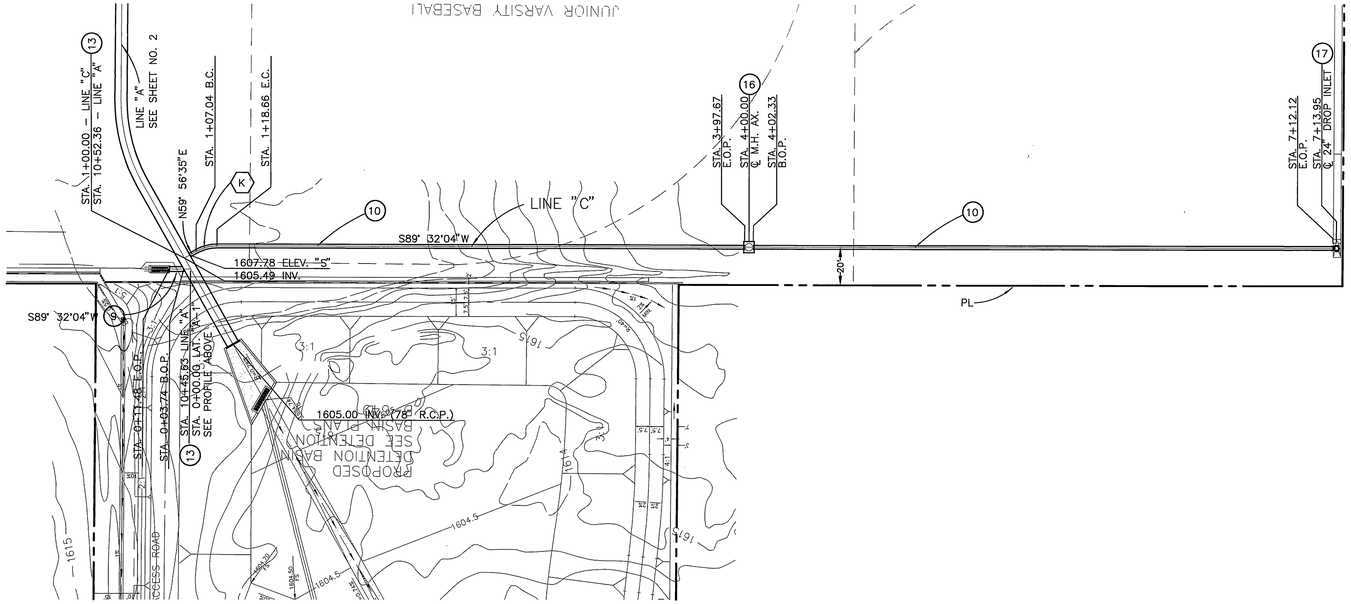
RIVERSIDE HIGH SCHOOL
STORM DRAIN
PLAN & PROFILE

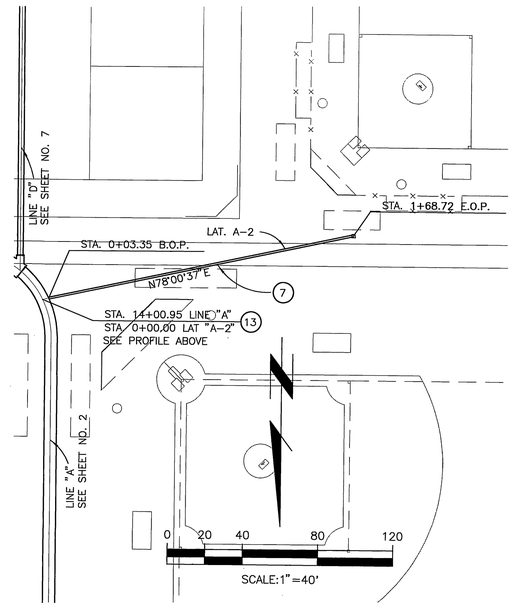
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PROJECT NO. D-648
SHEET 5 OF 7
FILE NO.

Last Update: 4/25/97
E:\1375\SD-5







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CURVE DATA				
⬡	△	R	L	T
K	29°35'29"	22.50'	11.62'	5.94'

NOTE:

PRIVATE STORM DRAIN AND DETENTION BASIN SYSTEM ON THIS PLAN TO BE MAINTAINED BY RIVERSIDE UNIFIED SCHOOL DISTRICT.

INDEXED 6-18-97 KH

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PREPARED UNDER THE DIRECTION OF:
Haidook Aghaian 5/7/97
HAIDOOK I. AGHAIAN DATE
R.C.E. 043293 – EXP. 3/31/00

APPROVED BY:

DATE

1" = 40'

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MARK	REVISIONS	APPR.	DATE

DESIGNED BY H.A/B.W. DRAWN BY B.W. CHECKED BY H.A.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
DEPUTY P.W. DIR.		
STREET SERVICES		

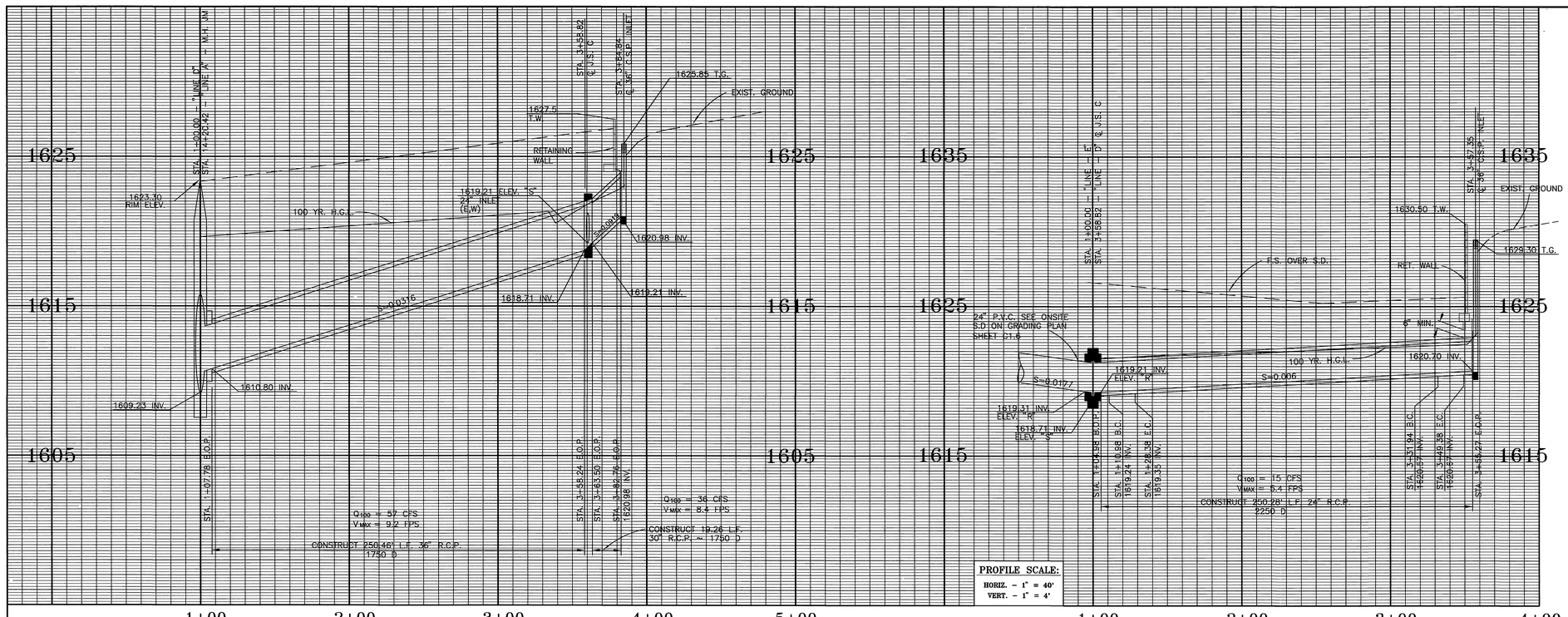
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 6/13/97

RIVERSIDE HIGH SCHOOL
STORM DRAIN
PLAN & PROFILE

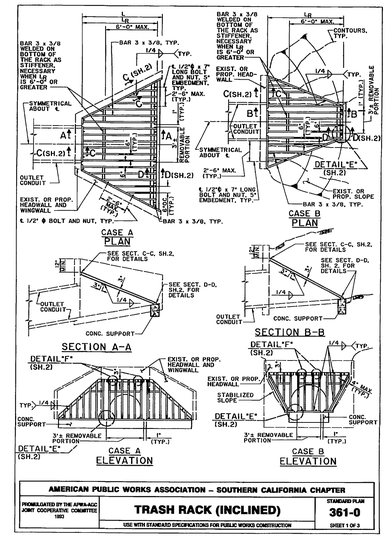
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

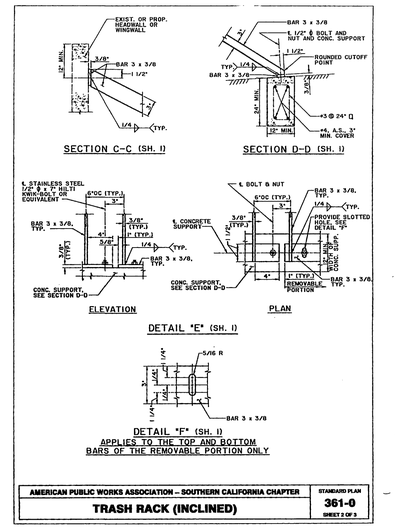
PROJECT NO. D-648
SHEET 6 OF 7
FILE NO.

Last Update: 4/25/97
E:\1375\SD-6



PROFILE SCALE:
HORIZ. - 1" = 40'
VERT. - 1" = 4'





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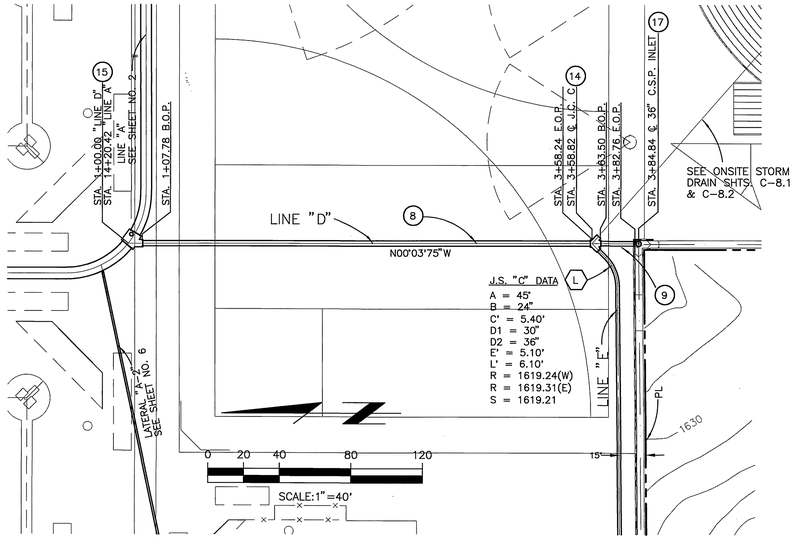

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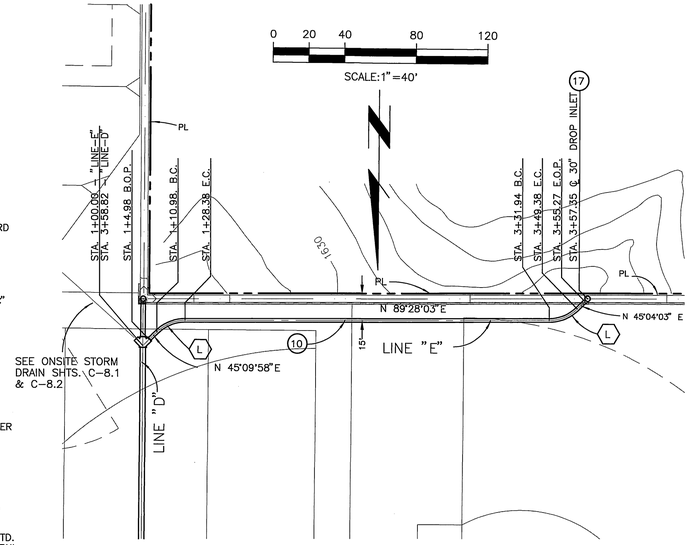

SEE @ LEFT

CURVE DATA				
⬡	△	R	L	T
L	44°24'00"	22.50'	17.44'	9.18'

NOTES

1. MAXIMUM SIZE OF OUTLET TO BE USED WITH THIS RACK IS 48" PIPE OR 48" WIDE RCB. MAXIMUM LENGTH OF RACK LR IS 10'–0"
2. L_R CAN BE ADJUSTED SO THAT THE SLOPE OF THE RACK IS APPROXIMATELY 2 HORIZONTAL TO 1 VERTICAL.
3. THE CONCRETE SUPPORT IS NOT NECESSARY IF EXISTING OR PROPOSED INLET STRUCTURE HAS ADEQUATE SUPPORT CUTOFF WALL. IT DOES NOT ELIMINATE THE NEED FOR A CUTOFF WALL BUT CAN BE INTEGRATED WITH ONE WHEN REQUIRED AT A PARTICULAR INSTALLATION.
4. GALVANIZE ALL EXPOSED FERROUS PARTS AFTER FABRICATION.
5. IF FIELD WELDS ARE NECESSARY, USE GALVICON, GALVALLOY OR AGENCY APPROVED EQUAL FOR COATING.
6. ALL BOLTS SHALL BE 1/2" IN DIAMETER AND 7" IN LENGTH. ON REMOVABLE PORTION OF THE RACK, USE 300 SERIES STAINLESS STEEL BOLTS AND NUTS. FOR WINGWALL BOLTS FOR CASE A. AND WHERE HEADWALL AND WINGWALL ARE EXISTING. HILTI KWIK–BOLT OR EQUIVALENT CAN BE USED.

NOTE:

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INDEXED 6-18-97 GH

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Haidook Aghaian 5/7/97
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MARK	REVISIONS	APPR.	DATE

DESIGNED BY H.A/B.W. DRAWN BY B.W. CHECKED BY H.A.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

	BY	DATE
APPROVED BY		
PRINCIPAL ENGINEER		6/6/97
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
DEPUTY P.W. DIR.		
STREET SERVICES		6/11/97

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 6/13/97

RIVERSIDE HIGH SCHOOL
STORM DRAIN
PLAN & PROFILE

PROJECT NO. D-648
SHEET 7 OF 7

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'
FILE NO.

Last Update: 4/25/97
E:\1375\SD–7