RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

LEGEND

IRRIGATION LINE	—12 CONC— —IRR—
MTD TELEPHONE	—MTD—
BURIED TELEPHONE CABLE	—T—
ELECTRIC UNDERGROUND (CONDUITS, DUCTBANKS)	—E—
FIRE ALARM CONDUIT	—F—
ST LIGHT UNDERGROUND (STEEL CONDUIT)	—SL—
TRAFFIC SIGNAL CONDUIT	—SIG—
STREET LIGHT STANDARD WITH OR WITHOUT TRAFFIC SIGNALS OR TRAFFIC SIGNAL STANDARD	
PRIVATE OR SECONDARY ROAD	
EXISTING FLOW LINE	
SANITARY SEWER LINE	—SS8—
GAS LINE	—G2—
WATER LINE	—W4—
STORM DRAIN LINE	—SD18—
CULVERT WITH HEADWALLS	
POWER POLES	
ANCHOR & POLE	
GAS METER	
WATER METER	
WATER VALVE	
FIRE HYDRANT	
MANHOLE	
FENCE (Not Chain link)	—X—
WALL BLOCK OR MASONRY	
CATCH BASIN	
RIGHT OF WAY LINE (FLOOD CONTROL)	—R/W—
TEMPORARY CONST. EASEMENT	—T.C.E.—
STREET RIGHT OF WAY	
FENCE (Chain link to be const.)	—●—
FENCE (Chain link exist.)	—○—

ABBREVIATIONS

C.M.P.	CORRUGATED METAL PIPE
R.C.P.	REINFORCED CONCRETE PIPE
C.B.	CATCH BASIN
P.C.C.	POINT OF COMPOUND CURVE
P.I.	POINT OF INTERSECTION
P.R.C.	POINT OF REVERSE CURVE
P.V.I.	POINT OF VERTICAL INTERSECTION
R.C.B.	REINFORCED CONCRETE BOX
T.S.	TRANSITION STRUCTURE
J.S.	JUNCTION STRUCTURE
M.H.	MANHOLE

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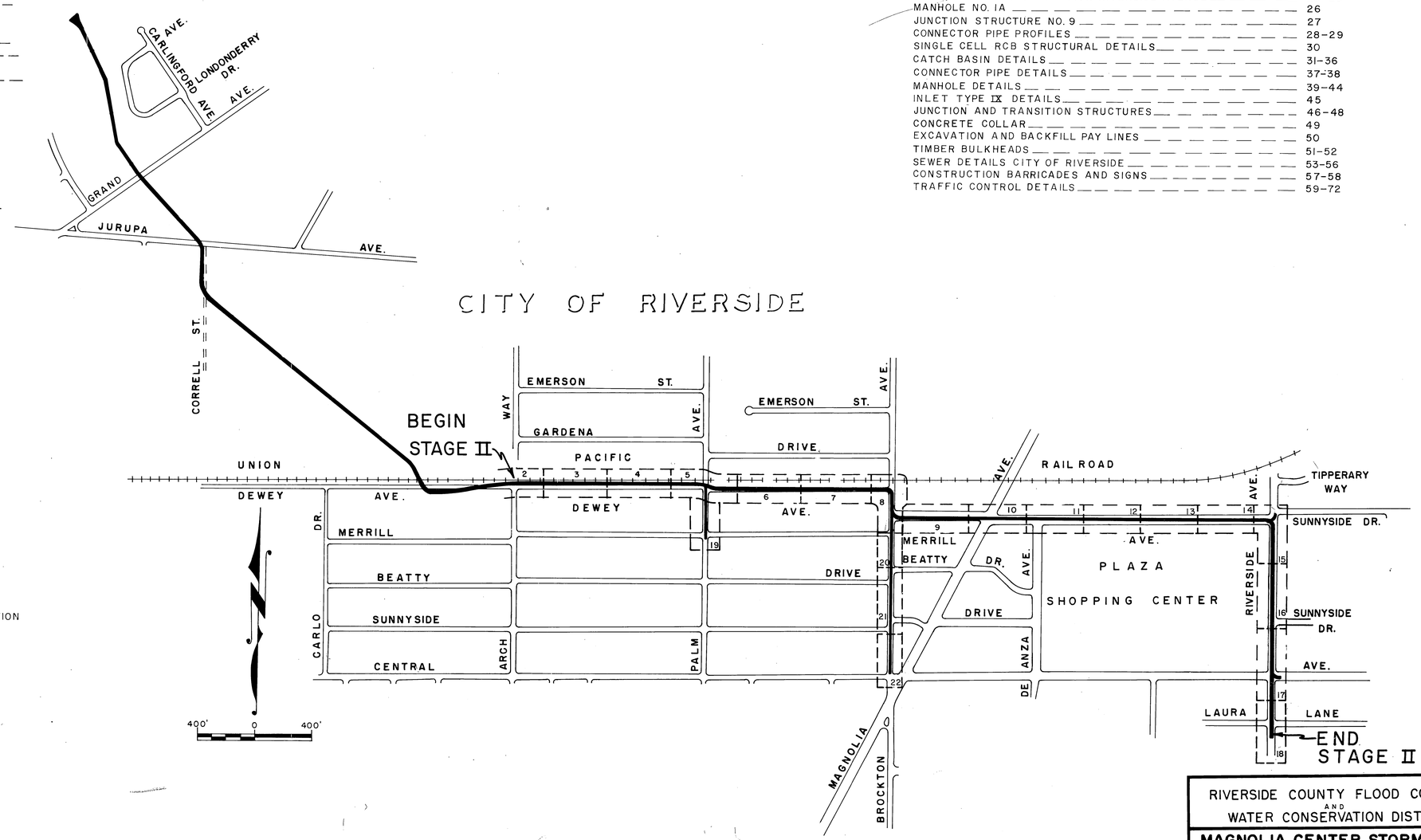


RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN STAGE II

MAP & GENERAL NOTES ABBREVIATIONS & LEGEND

Approved: John K. Bryant, Chief Engineer R.E. No 8822
Date: 6-10-71

Designed: J.H. & W.S.
Drawn: R.L. Rentz
Checked: D.M.M.
Date Drawn: SEPT. 1968

Sheet No 1
Dwg. No 1-262

PROJECT NO. 1-0-190
AS BUILT

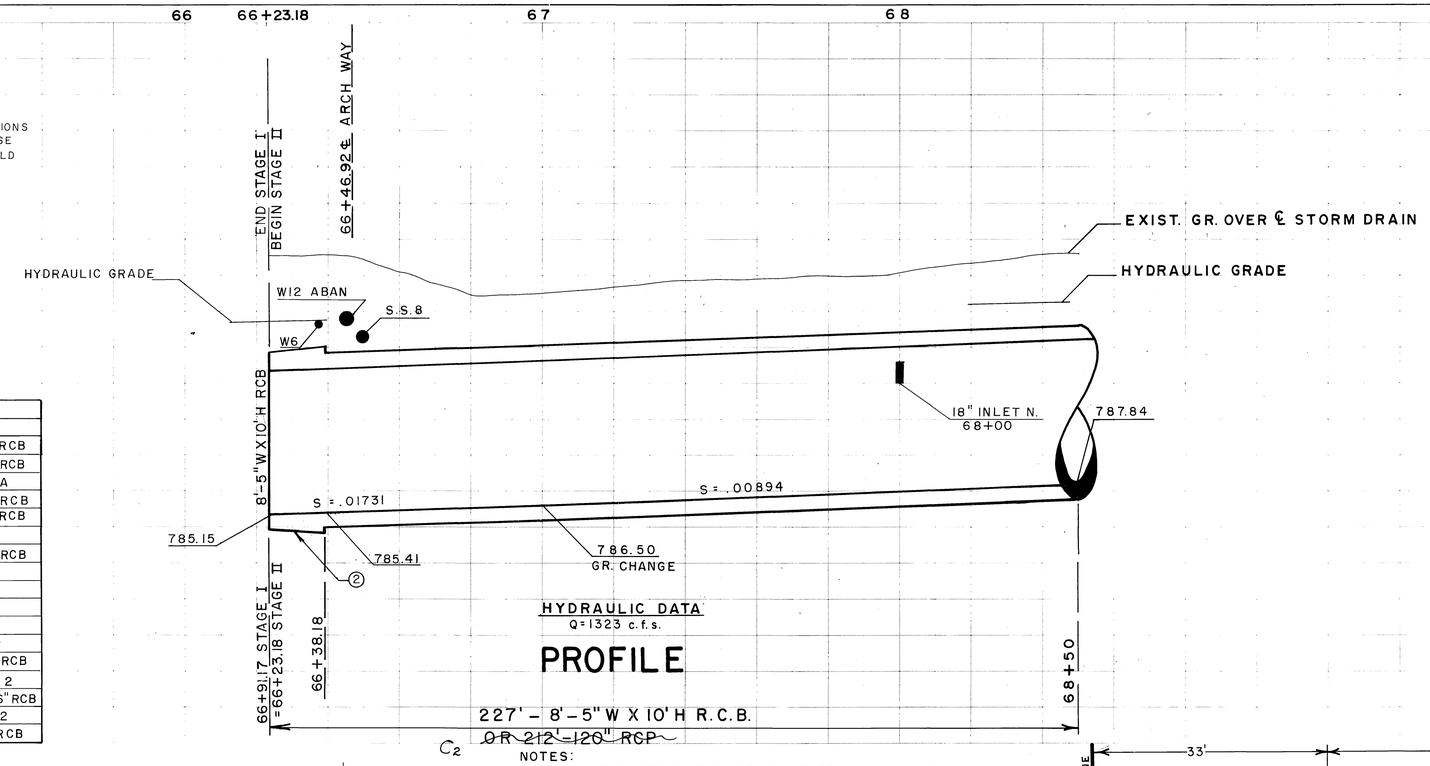
D-241

GENERAL NOTES:

1. ELEVATIONS SHOWN ARE IN FEET ABOVE THE USGS MEAN SEA LEVEL DATUM.
2. STATIONS SHOWN ON DRAWINGS ARE ALONG CENTER LINE OF CONDUIT OR ON A LINE NORMAL TO CENTER LINE OF CONDUIT.
3. LOCATIONS OF CATCH BASIN CONNECTOR PIPE JUNCTIONS WITH CATCH BASINS AS SHOWN ON THE DRAWINGS ARE SCHEMATIC. IT IS INTENDED THAT SUCH JUNCTIONS BE LOCATED AT THE DOWNSTREAM ENDS OF THE CATCH BASINS UNLESS OTHERWISE SHOWN. IN ALL CASES THE EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER TO MEET FIELD CONDITIONS.
4. LOCATIONS SHOWN ON THE PLANS FOR EXISTING SANITARY SEWER HOUSE CONNECTIONS ARE APPROXIMATE ONLY.
5. ALL RESURFACING, CURBS, GUTTERS, SIDEWALKS, DRIVEWAYS AND OTHER EXISTING IMPROVEMENTS TO BE RECONSTRUCTED SHALL BE CONSTRUCTED AT THE SAME ELEVATION AND LOCATION AS THE EXISTING IMPROVEMENTS, UNLESS OTHERWISE NOTED.
6. SOIL TEST BORINGS FOR THIS PROJECT WERE MADE 6-19-68.

MAIN LINE SUMMARY C2

STATIONS FROM	STATIONS TO	LENGTH	PIPE DIA	PROPOSALS I	PROPOSALS II
TRANSITION AT ARCH WAY				~~TS NO. 1~~	8'-5"X10' RCB
66+38.18	79+40.00	1302	120"	~~700-D~~	8'-5"X10' RCB
JUNCTION AT PALM AVE				~~MH NO. 1A~~	JS NO. 1A
79+64.50	85+00	535	120"	~~850-D~~	8'-5"X10' RCB
85+00	94+18	918	120"	~~1200-D~~	8'-5"X10' RCB
JUNCTION AT BROCKTON AVE				~~MH NO. 4~~	JS NO. 1
94+33	100+50	617	120"	~~1200-D~~	8'-5"X10' RCB
100+50	113+00	1248	↑	~~1350-D~~	↑
113+00	118+00	500		~~1300-D~~	
118+00	122+50	442		~~1650-D~~	
122+50	124+50	200		~~1500-D~~	
124+50	127+50	300		~~1350-D~~	
127+50	131+45	395	120"	~~1200-D~~	8'-5"X10' RCB
JUNCTION AT CENTRAL AVE				~~T.S. NO. 1~~	TS NO. 2
131+61	132+20	59		~~10'-6"X6'-6" RCB~~	10'-6"X6'-6" RCB
TRANSITION AT CENTRAL AVE				~~TS NO. 1~~	TS NO. 2
132+35	136+00	365	108"	~~1000-D~~	7'-6"X9' RCB



HYDRAULIC DATA
Q=1323 c.f.s.

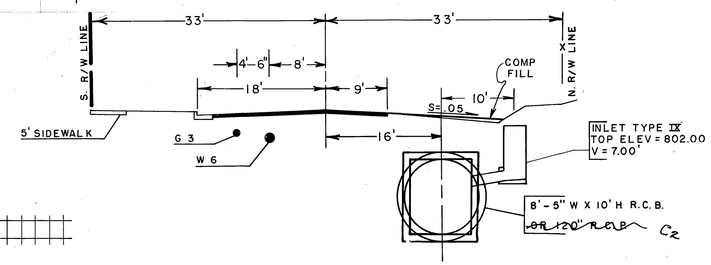
PROFILE

NOTES:

1. T.B.M. TOP OF FIRE HYDRANT AT SE. CORNER OF THE INTERSECTION OF DEWEY AVE. & ARCH WAY ELEV.=806.23'

C2 ② ~~PROPOSAL I - TS NO. 1 - 16'-0"~~

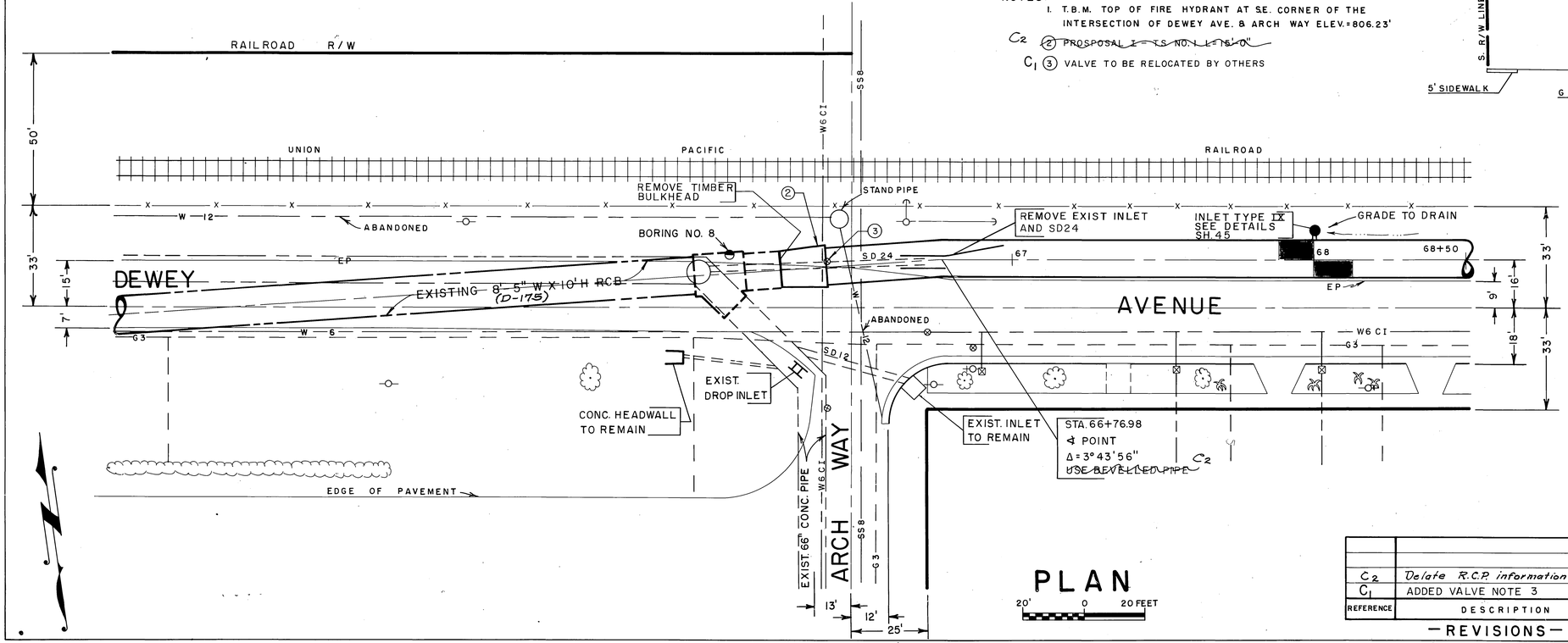
C1 ③ VALVE TO BE RELOCATED BY OTHERS



CROSS SECTION

STA. 68+00

10' 0 10 FEET



PLAN

20' 0 20 FEET

REFERENCE	DESCRIPTION	APPROVED	DATE
C2	Delete R.C.P. information	RCP	10-3-72
C1	ADDED VALVE NOTE 3	JWB	7-22-71

— REVISIONS —
AS BUILT

PROJECT NO. 1 - 0 - 190

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

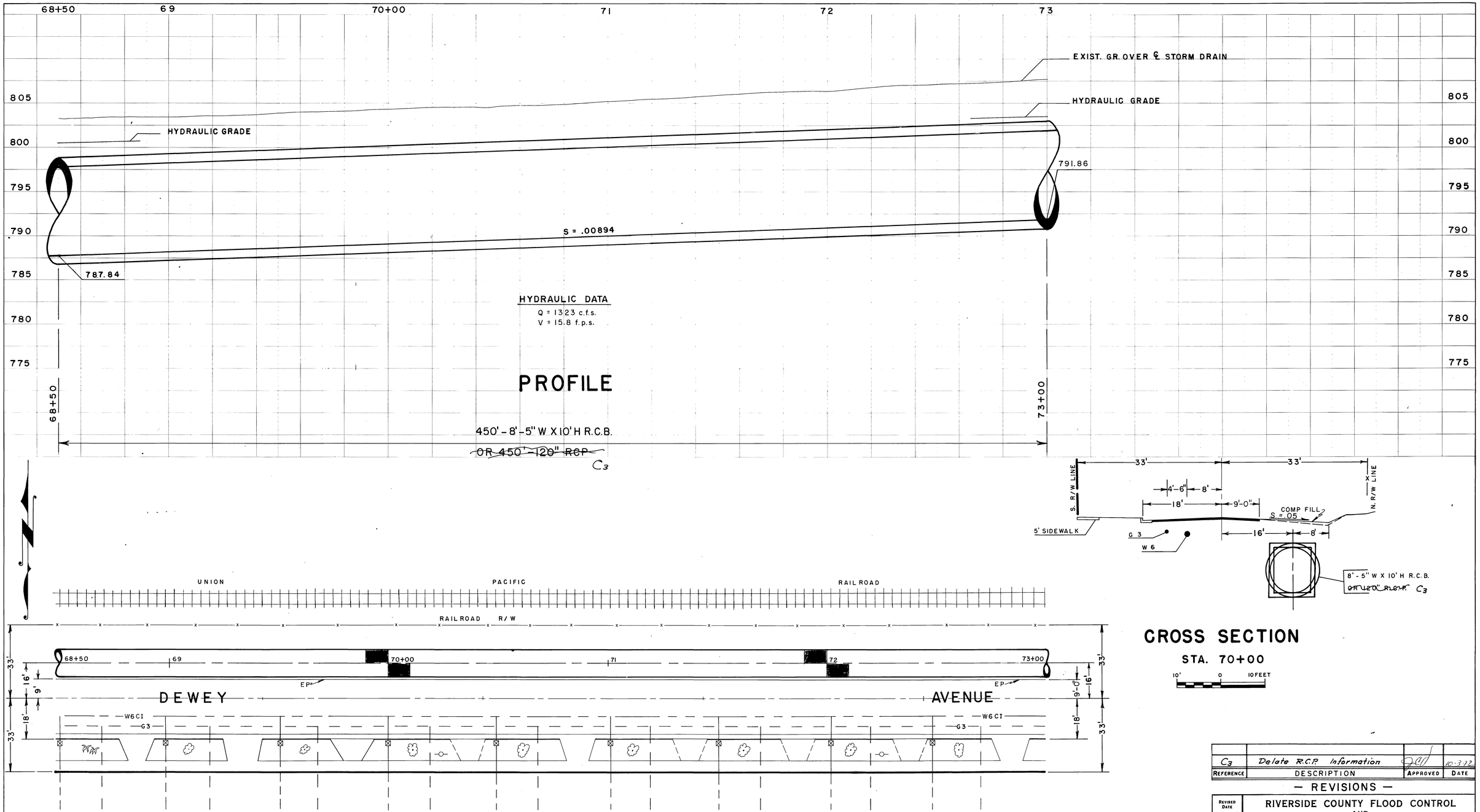
MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
STA. 66+23.18 TO STA. 68+50

Approved John W. Bryant Chief Engineer R.E. No 8822
Date: 6-10-71

Designed: D.Z. & W.S.
Drawn: R.L. Parker
Checked: D.M. & J.H.
Date Drawn: 6-8-71

Sheet No. 2
Dwg. No 1-262

D-241



REFERENCE	DESCRIPTION	APPROVED	DATE
C3	Delate R.C.P. Information	[signature]	10-3-72

— REVISIONS —

REVISED DATE

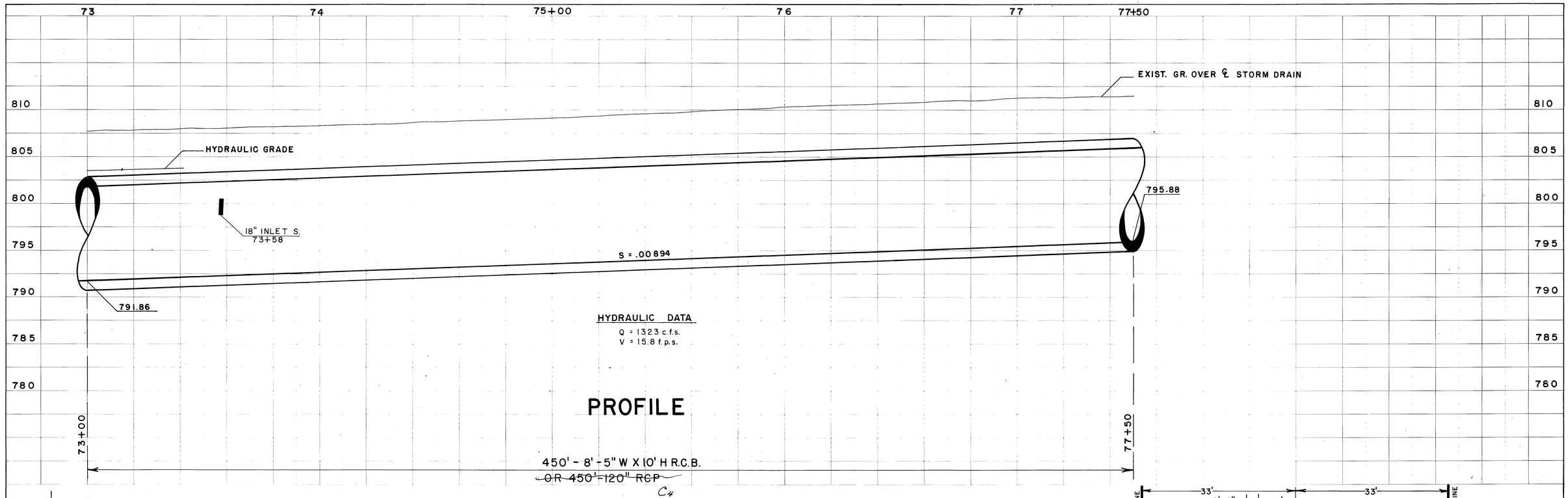
RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
STA. 68+50 TO STA. 73+00

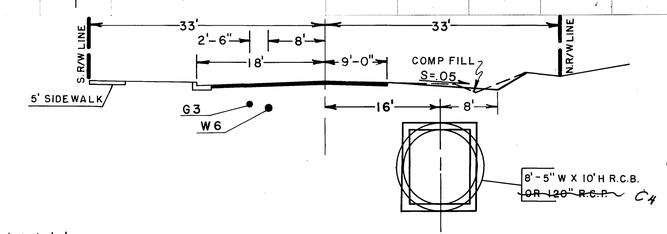
APPROVED: [signature] CHIEF ENGINEER, R.E. NO. 8822	DRAWN: D Z & W S	SHEET NO. 3
	TRACED: R. L. [signature]	
	CHECKED: D M & J H	DWG. NO. 1-262
DATE: 6-10-71	DATE DRAWN: 6-8-71	

PROJECT NO. 1-0-190
AS BUILT

D-241



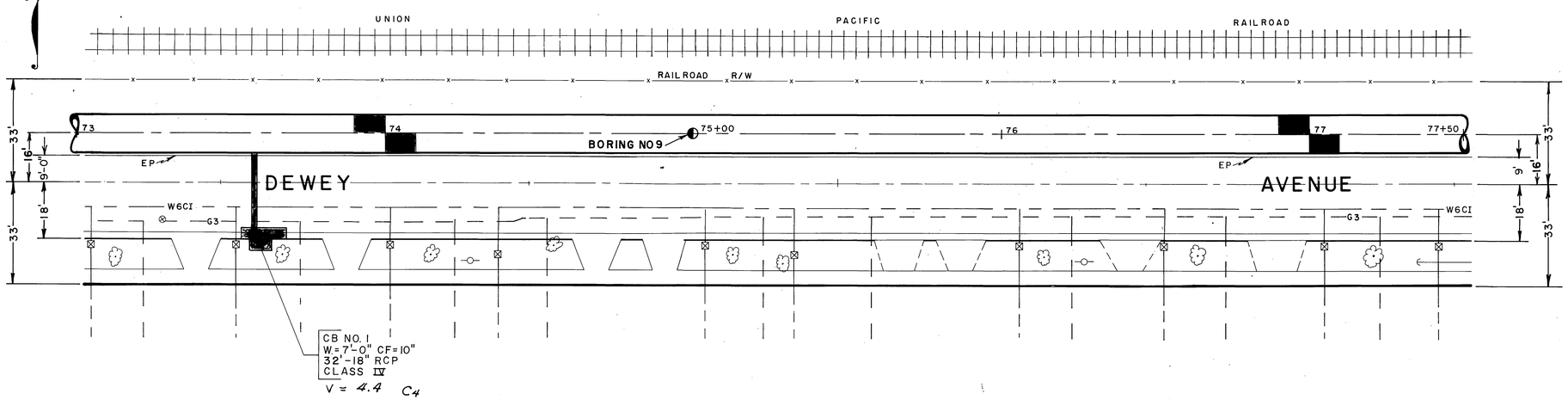
PROFILE



CROSS SECTION

STA. 76+00

10' 0 10 FEET



PLAN

20' 0 20 FEET

REFERENCE	DESCRIPTION	APPROVED	DATE
C4	Correct "V" depth & Delate R.C.P. info.	[signature]	10-3-76

— REVISIONS —

REVISED DATE

RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
STA.73+00 TO STA.77+50

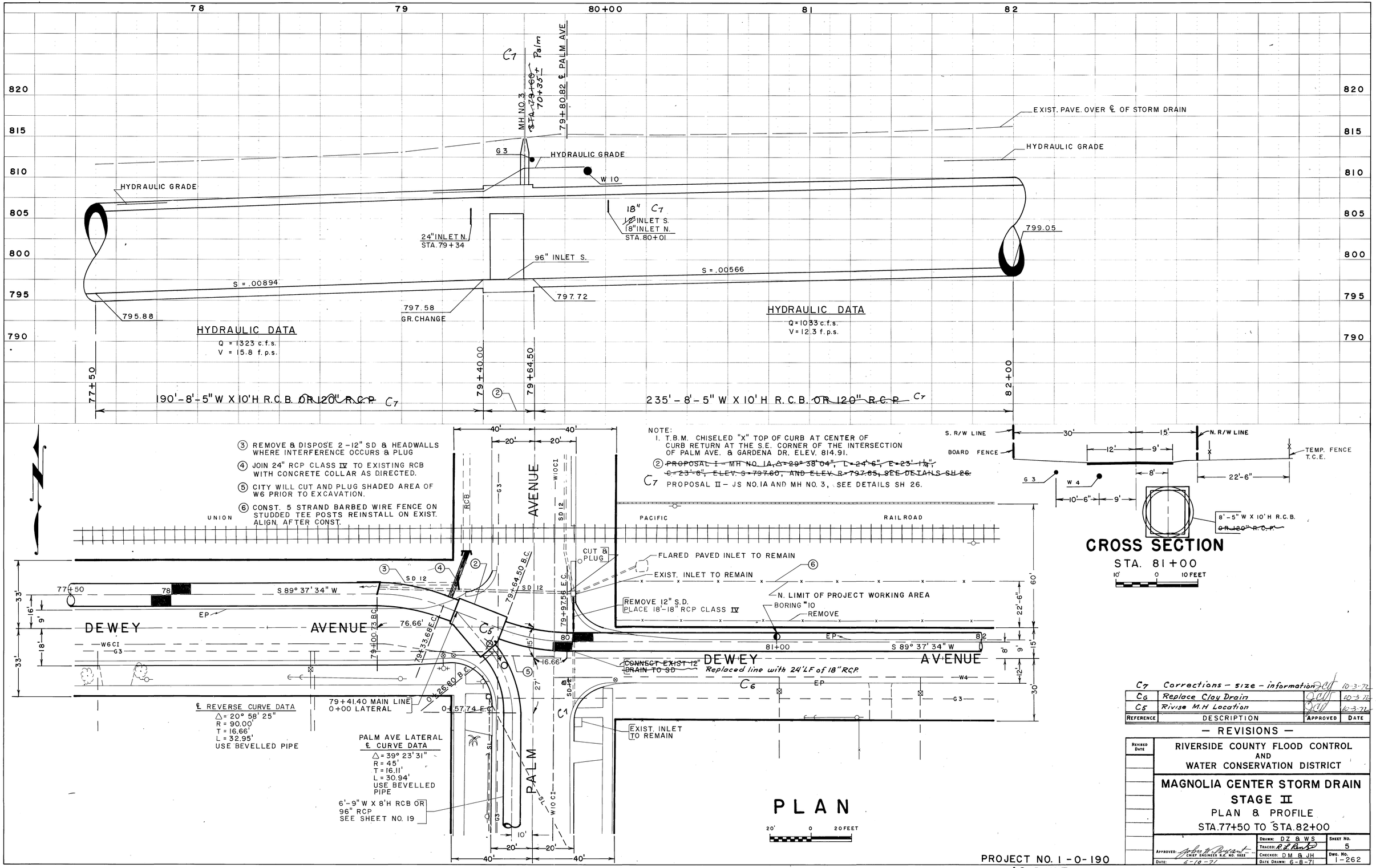
APPROVED: [signature] CHIEF ENGINEER R.C. NO. 8832
DATE: 6-10-71

DRAWN: DZ & WS
TRACED: R.L. Bentz
CHECKED: DM & JH
DATE DRAWN: 6-8-71

SHEET NO. 4
DWG. NO. 1-262

PROJECT NO. 1-0-190
AS BUILT

D-241



REFERENCE	DESCRIPTION	APPROVED	DATE
C7	Corrections - size - information	JCW	10-3-72
C6	Replace Clay Drain	JCW	10-3-72
C5	Rivise M.H Location	JCW	10-3-72

— REVISIONS —

REVISED DATE

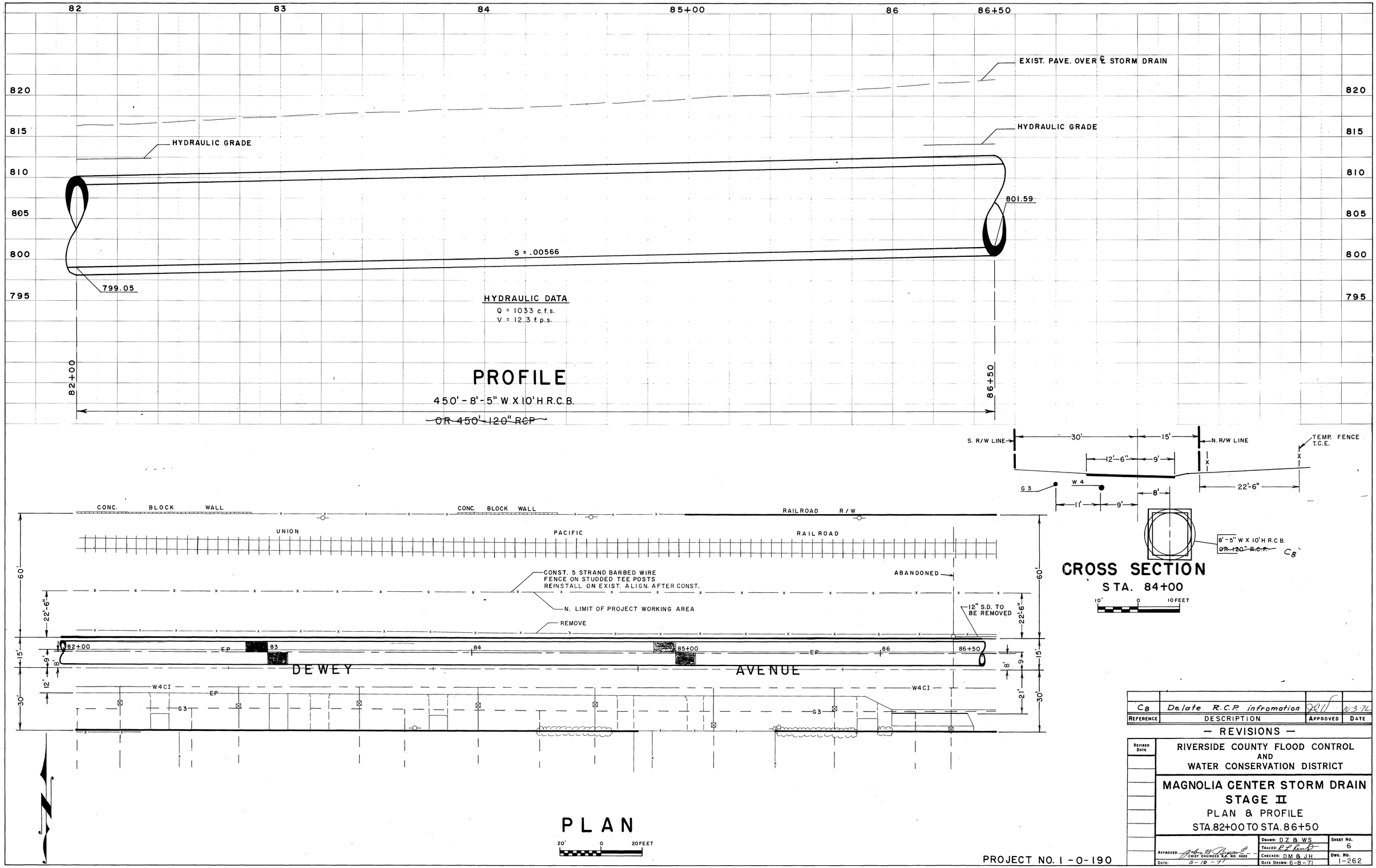
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
STA. 77+50 TO STA. 82+00

APPROVED: John W. Bryant — CHIEF ENGINEER R.E. NO. 6922
DATE: 6-10-71
DRAWN: DZ & WS
TRACED: R.L. Rent
CHECKED: DM & JH
DATE DRAWN: 6-8-71
SHEET NO. 5
DWG. NO. 1-262

PROJECT NO. 1-0-190
AS BUILT

D-241



REFERENCE	DESCRIPTION	APPROVED	DATE
C8	Delete R.C.P. infromation		10-3-72

— REVISIONS —

REVISED DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN STAGE II

PLAN & PROFILE

STA. 82+00 TO STA. 86+50

APPROVED: CHIEF ENGINEER R.E. NO. 6832
DATE: 6-10-71

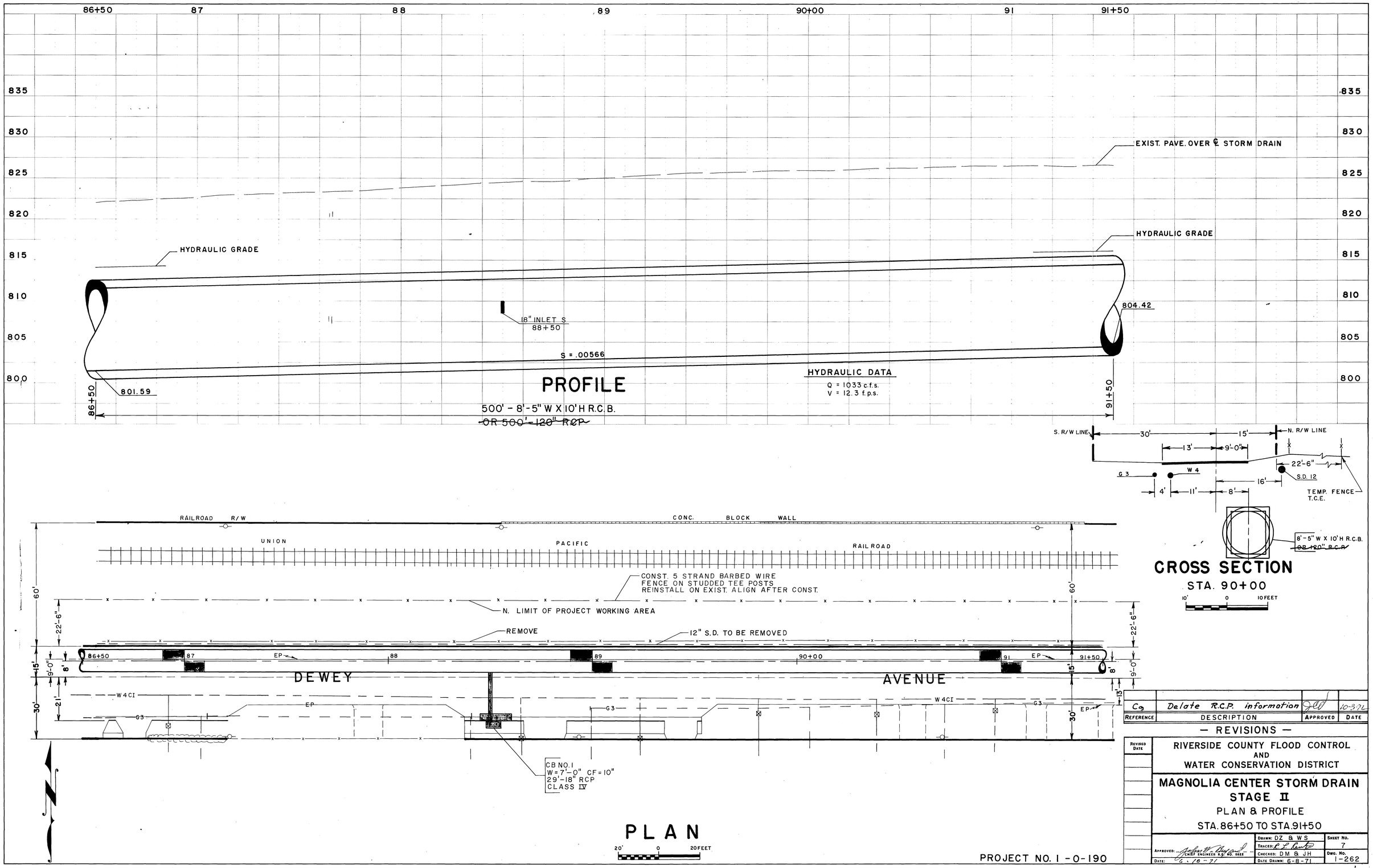
DRAWN: DZ & WS
TRACED:
CHECKED: DM & JH
DATE DRAWN: 6-8-71

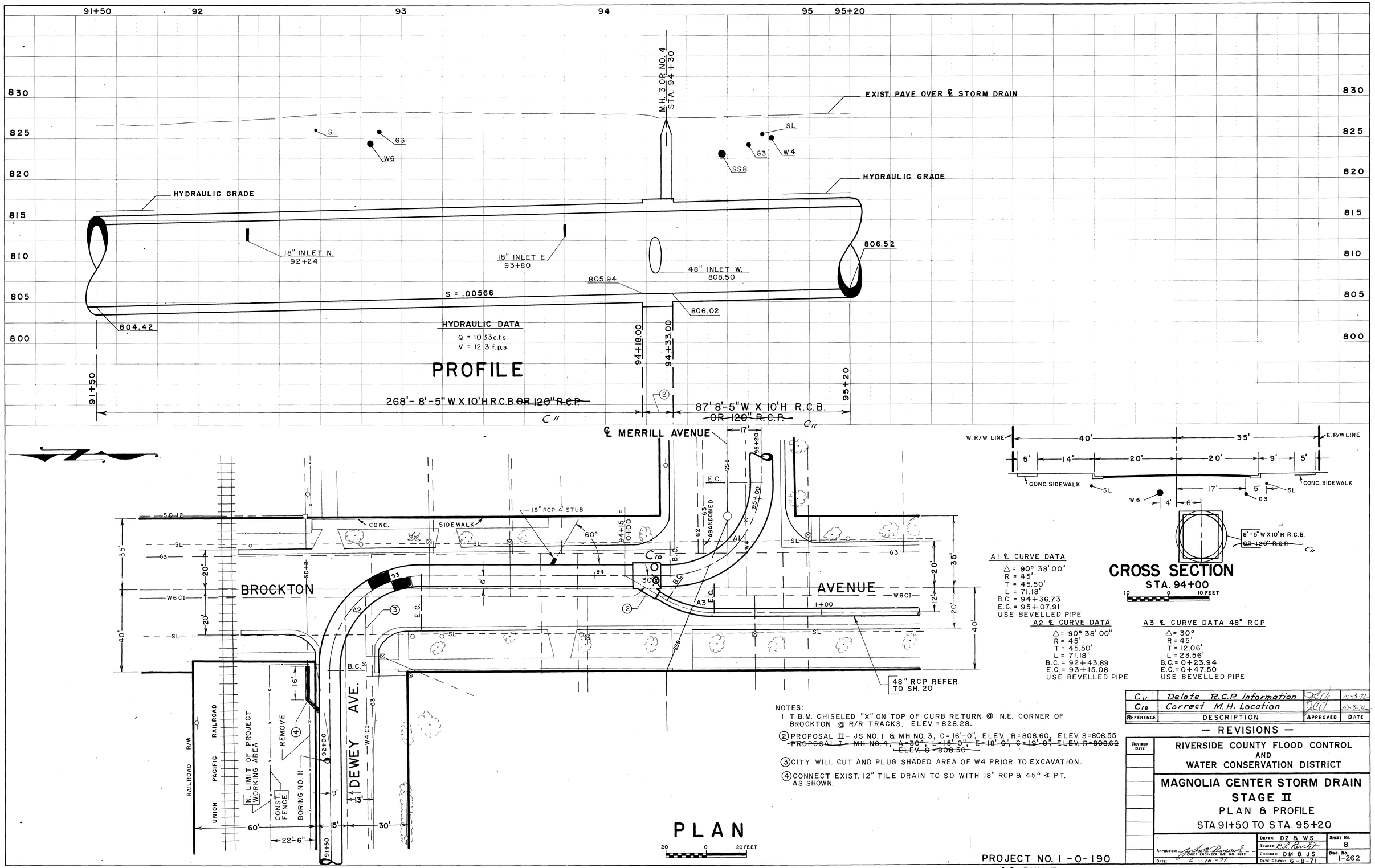
SHEET NO. 6
DWG. NO. 1-262

PROJECT NO. 1-0-190

AS BUILT

D-241


86+50
87
88
89
90+00
91
91+50
835
830
825
820
815
810
805
800
EXIST. PAVE. OVER ℄ STORM DRAIN
HYDRAULIC GRADE
HYDRAULIC GRADE
18" INLET S
88+50
804.42
S = .00566
801.59
86+50
91+50
PROFILE
500' - 8'-5" W X 10'H R.C.B.
~~OR 500'-120" RCP~~
HYDRAULIC DATA
Q = 1033 c.f.s.
V = 12.3 f.p.s.
S. R/W LINE
N. R/W LINE
30'
15'
13'
9'-0"
22'-6"
G 3
W 4
4'
11'
8'
16'
S.D. 12
TEMP. FENCE
T.C.E.
8'-5" W X 10'H R.C.B.
~~OR 120" R.C.P.~~
CROSS SECTION
STA. 90+00
10' 0 10 FEET
RAILROAD R/W
CONC. BLOCK WALL
UNION PACIFIC RAILROAD
CONST. 5 STRAND BARBED WIRE
FENCE ON STUDDED TEE POSTS
REINSTALL ON EXIST. ALIGN AFTER CONST.
N. LIMIT OF PROJECT WORKING AREA
REMOVE
12" S.D. TO BE REMOVED
60'
22'-6"
15'
9'-0"
8'
30'
2'
13'
86+50
87
88
89
90+00
91
91+50
EP
DEWEY
AVENUE
W 4CI
G3
CB NO. 1
W = 7'-0" CF = 10"
29'-18" RCP
CLASS IV
PLAN
20' 0 20 FEET
Delete R.C.P. information
10-3-72
REFERENCE
DESCRIPTION
APPROVED
DATE
— REVISIONS —
REVISED DATE
RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT
MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
STA. 86+50 TO STA. 91+50
DRAWN: DZ & WS
TRACED:
CHECKED: DM & JH
DATE DRAWN: 6-8-71
SHEET NO. 7
DWG. NO. 1-262
APPROVED:
CHIEF ENGINEER R.C.F. NO. 5022
DATE: 6-10-71
PROJECT NO. 1-0-190
AS BUILT
D-241



A1 ℄ CURVE DATA
△ = 90° 38' 00"
R = 45'
T = 45.50'
L = 71.18'
B.C. = 94+36.73
E.C. = 95+07.91
USE BEVELLED PIPE

A2 ℄ CURVE DATA
△ = 90° 38' 00"
R = 45'
T = 45.50'
L = 71.18'
B.C. = 92+43.89
E.C. = 93+15.08
USE BEVELLED PIPE

A3 ℄ CURVE DATA 48" RCP
△ = 30°
R = 45'
T = 12.06'
L = 23.56'
B.C. = 0+23.94
E.C. = 0+47.50
USE BEVELLED PIPE

NOTES:

1. T.B.M. CHISELED "X" ON TOP OF CURB RETURN @ N.E. CORNER OF BROCKTON @ R/R TRACKS. ELEV. = 828.28.
2. PROPOSAL II - JS NO. 1 & MH NO. 3, C = 16'-0", ELEV. R = 808.60, ELEV. S = 808.55 ~~PROPOSAL I - MH NO. 4, A = 30°, L = 15'-0", E = 18'-0", C = 19'-0", ELEV. R = 808.62 ELEV. S = 808.50~~
3. CITY WILL CUT AND PLUG SHADED AREA OF W4 PRIOR TO EXCAVATION.
4. CONNECT EXIST. 12" TILE DRAIN TO SD WITH 18" RCP & 45° ∢ PT. AS SHOWN.

PROJECT NO. 1-0-190
AS BUILT

REFERENCE	DESCRIPTION	APPROVED	DATE
C11	Delete R.C.P. Information		10-3-72
C10	Correct M.H. Location		10-3-72

— REVISIONS —

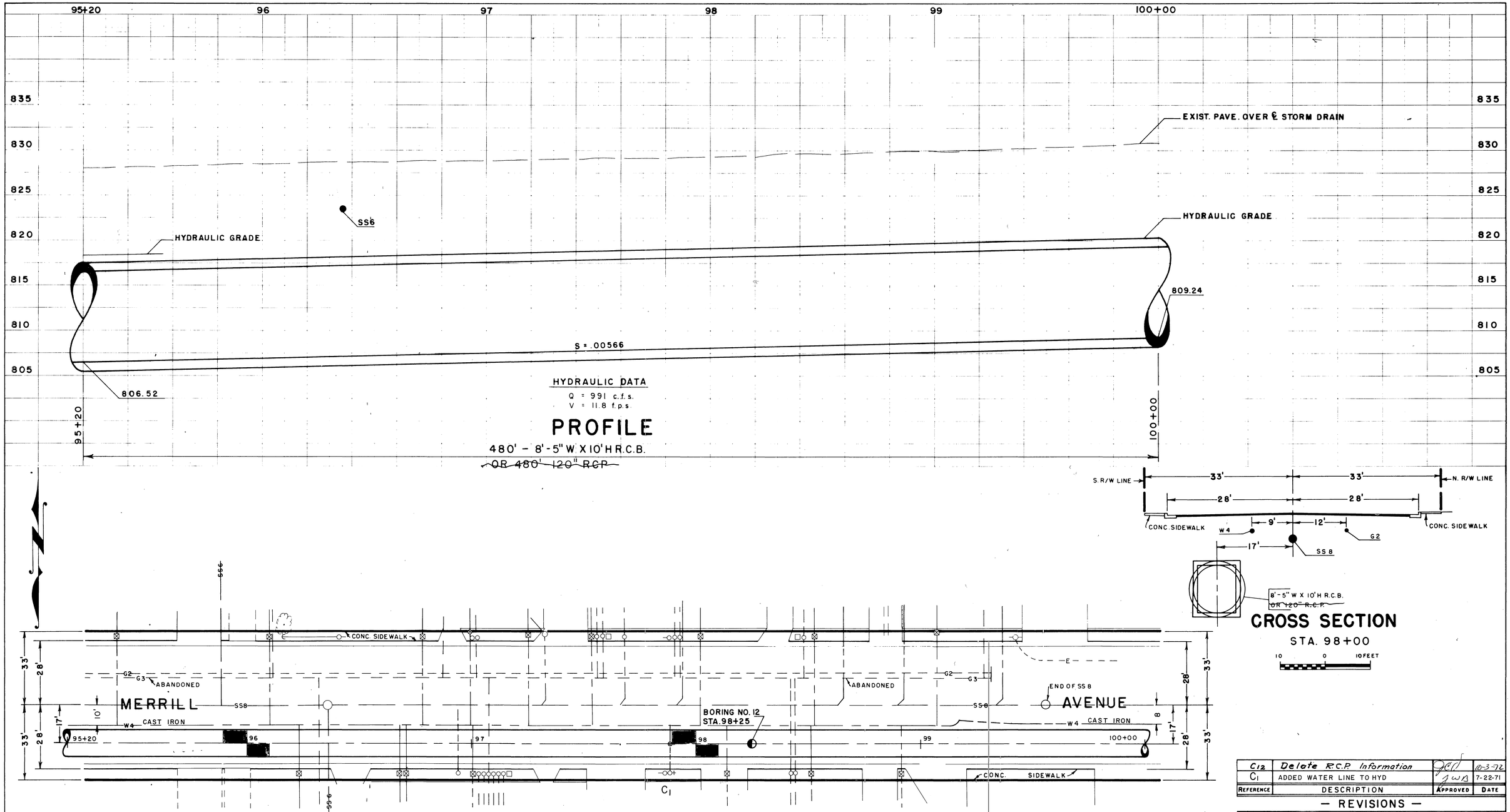
REVISED DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
STA. 91+50 TO STA. 95+20

APPROVED: CHIEF ENGINEER R.E. NO. 9822
DATE: 6-10-71
DRAWN: DZ & WS
TRACED:
CHECKED: DM & JS
DATE DRAWN: 6-8-71
SHEET NO. 8
DWG. NO. 1-262

D-241



NOTE:

DURING OPEN TRENCH CONDITIONS APPROVED METHODS OF SUPPORT AND PROTECTION WILL BE USED TO MAINTAIN IN PLACE THE 4 INCH WATER MAIN THAT PARALLELS THE STORM DRAIN FROM STA. 94+60 TO 100+15. THE 4 INCH MAIN WILL BE OUT OF SERVICE DURING CONSTRUCTION AND TEMPORARY SERVICE WILL BE PROVIDED BY THE CITY.

PLAN

20 0 20 FEET

REFERENCE	DESCRIPTION	APPROVED	DATE
C12	Delete R.C.P. Information	JCD	10-3-72
C1	ADDED WATER LINE TO HYD	JWB	7-22-71

— REVISIONS —

REVISED DATE

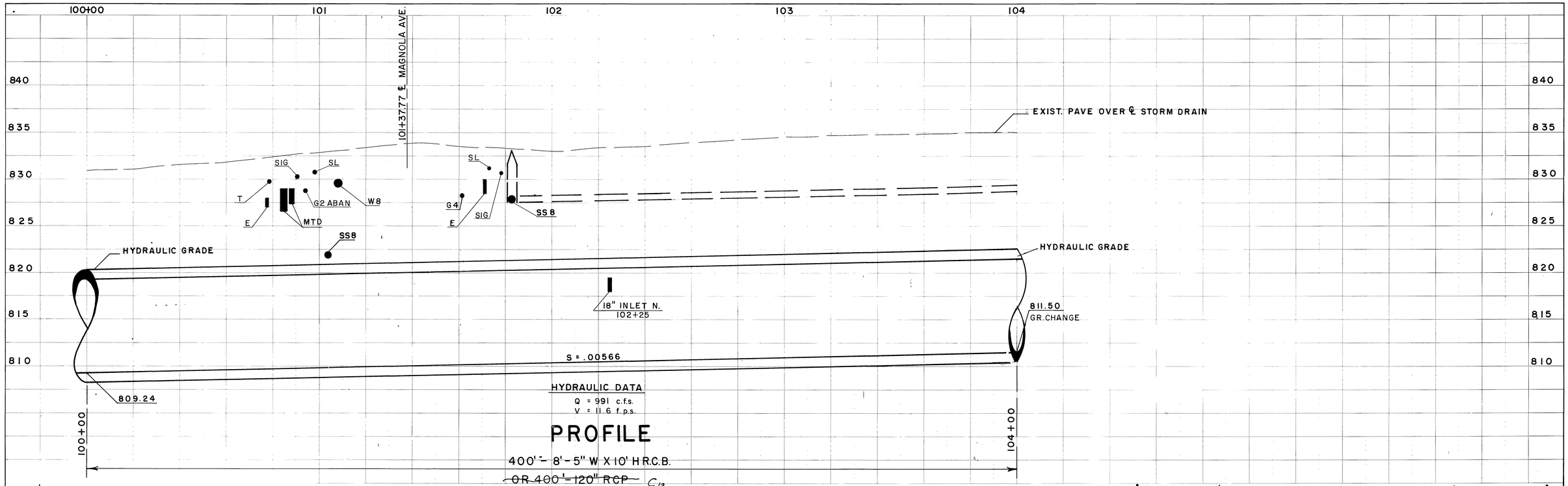
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
STA. 96+20 TO STA. 100+00

APPROVED: John W. Bryant, CHIEF ENGINEER R.C. NO. 5022
DATE: 6-10-71
DRAWN: DZ & WS
TRACED: R.L. Rand
CHECKED: DM & JH
DATE DRAWN: 6-10-71
SHEET NO. 9
DWG. NO. 1-262

PROJECT NO. 1-0-190
AS BUILT

D-241



REFERENCE	DESCRIPTION	APPROVED	DATE
C16	Add "V" depth.		10-3-72
C15	Change Curve to Angle Pt.		10-3-72
C14	Add Lateral C.C.O. #7		10-3-72
C13	Delete R.C.P. Information		10-3-72

— REVISIONS —

REVISED DATE

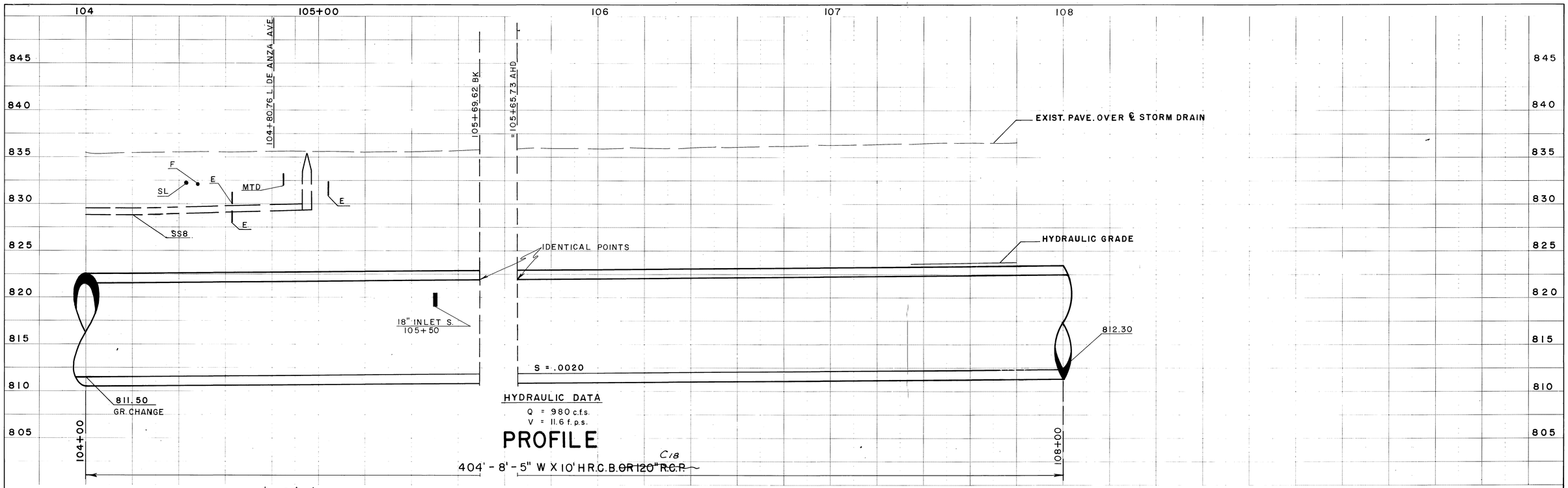
RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
STA. 100+00 TO STA. 104+00

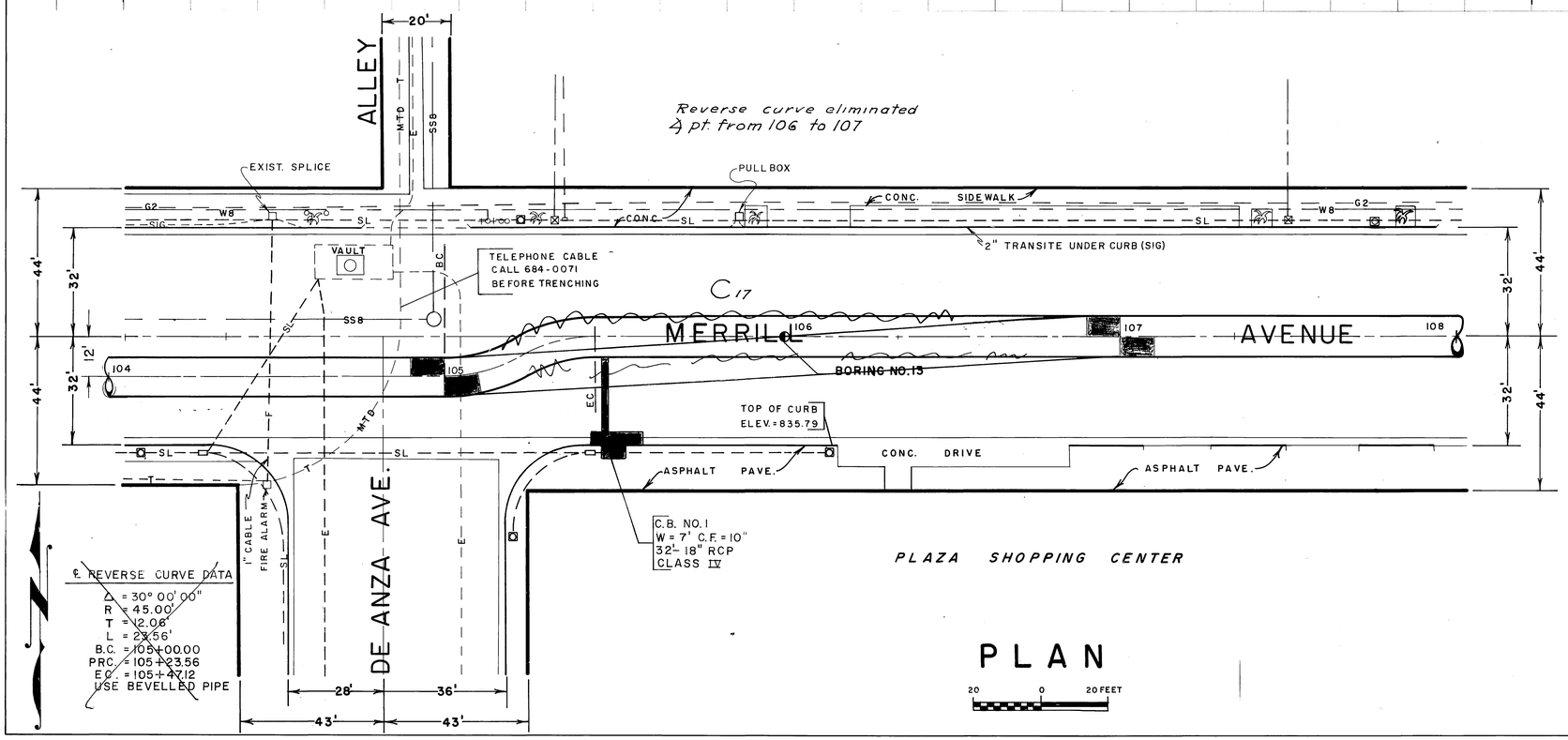
APPROVED: John W. Bradford, CHIEF ENGINEER R.E. NO. 9022
DATE: 6-10-71
DRAWN: DZ & WS
TRACED: R. L. Renfro
CHECKED: DM & JH
DATE DRAWN: 6-9-71
SHEET NO. 10
DWG. NO. 1-262

PROJECT NO. 1-0-190
AS BUILT

D-241

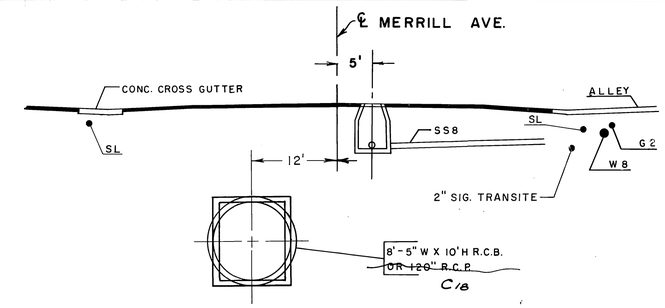


PROFILE



PLAN

20 0 20 FEET



CROSS SECTION

STA. 104+96

10 0 10 FEET

REFERENCE	DESCRIPTION	APPROVED	DATE
C18	Delate R.C.P. Information		
C17	Change to Angle Pt.		

— REVISIONS —

REVISED DATE

RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
STA. 104+00 TO STA. 108+00

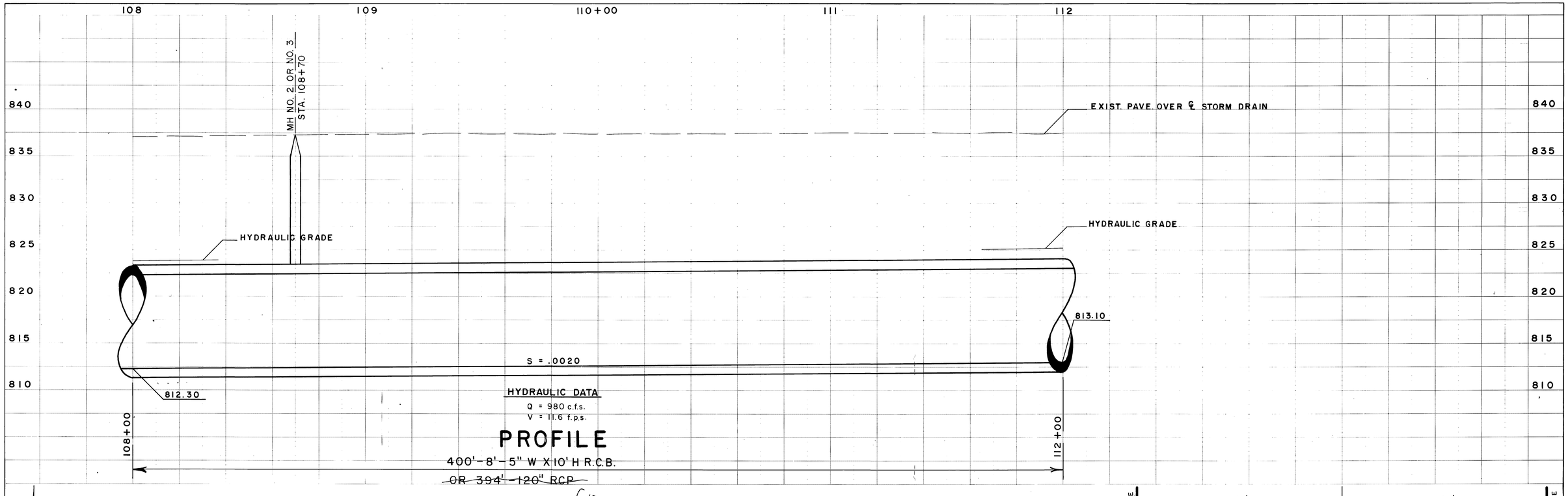
APPROVED: John W. Bergsot
CHIEF ENGINEER R.E. NO. 6822
DATE: 6-10-71

DRAWN: DZ & WS
TRACED: R. L. Rex Jr.
CHECKED: DM & JH
DATE DRAWN: 6-9-71

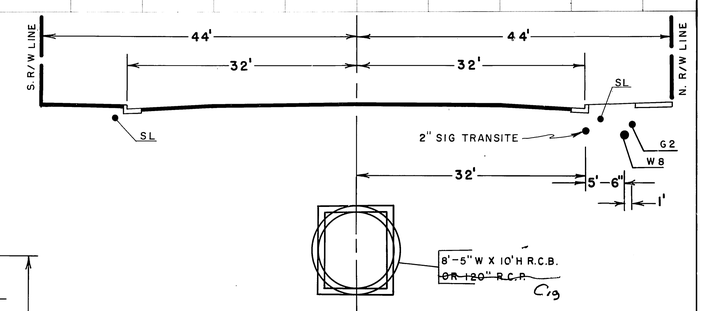
SHEET NO. 11
DWG. NO. 1-262

PROJECT NO. 1-0-190
AS BUILT

D-241



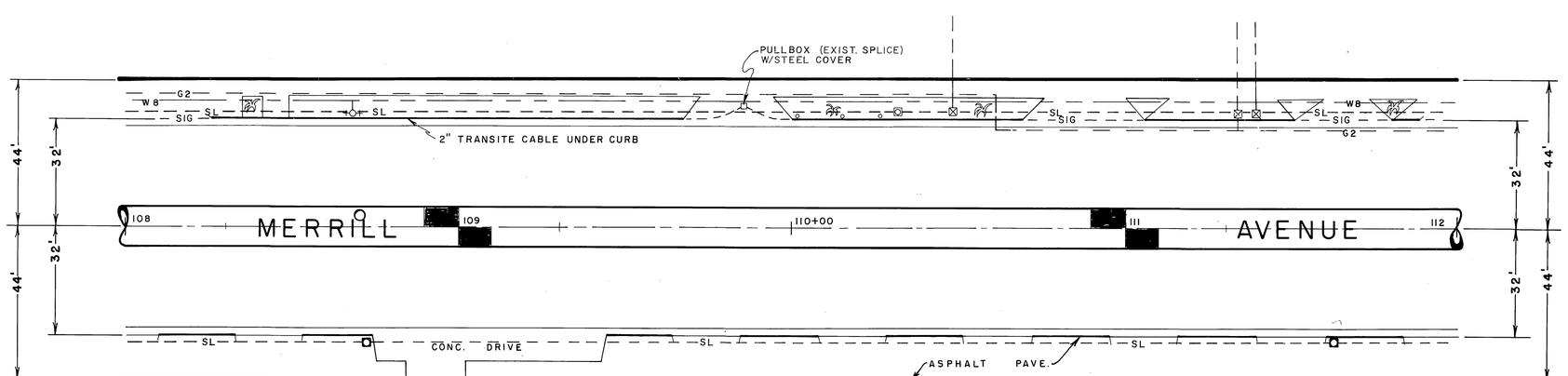
PROFILE



CROSS SECTION

STA. 110+00

10' 0 10 FEET



PLAZA SHOPPING CENTER

PLAN

20' 0 20 FEET

REFERENCE	DESCRIPTION	APPROVED	DATE
C19	Delate R.C.P. Information.	[illegible]	10-3-72

— REVISIONS —

REVISED DATE

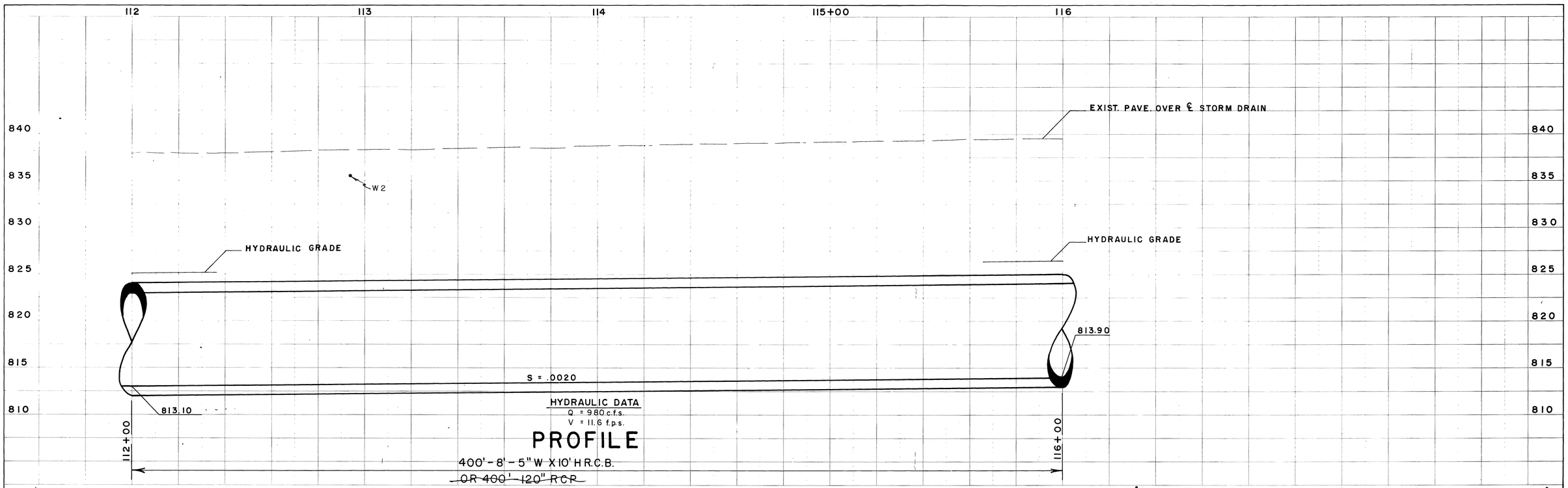
RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
STA. 108+00 TO STA. 112+00

APPROVED: [signature] CHIEF ENGINEER S.E. NO. 6822
DATE: 6-10-71
DRAWN: DZ & WS
TRACED: [signature]
CHECKED: DM & JH
DATE DRAWN: 6-9-71
SHEET NO. 12
DWG. NO. 1-262

PROJECT NO. 1-0-190
AS BUILT

D-241



REFERENCE	DESCRIPTION	APPROVED	DATE
C20	Delate R.C.P. Information	[illegible]	[illegible]

— REVISIONS —

REVISED DATE

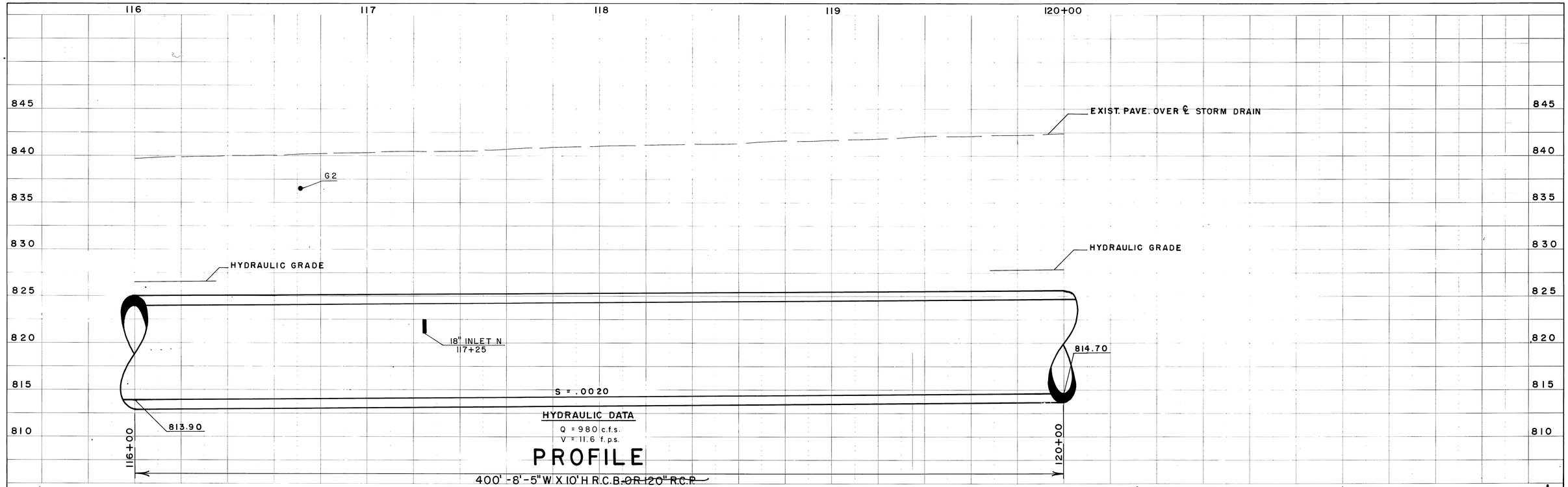
RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT

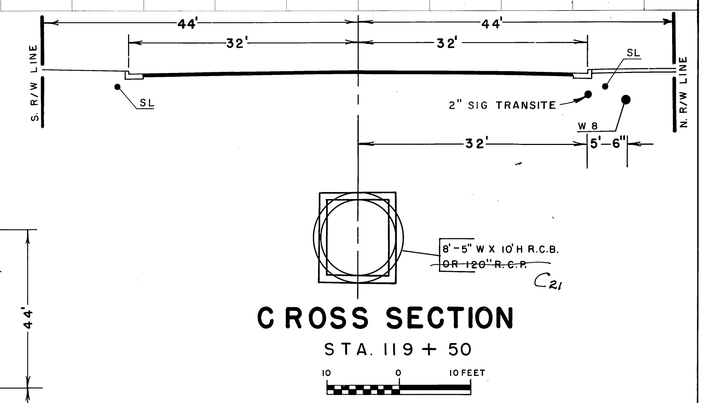
MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
STA.112+00 TO STA.116+00

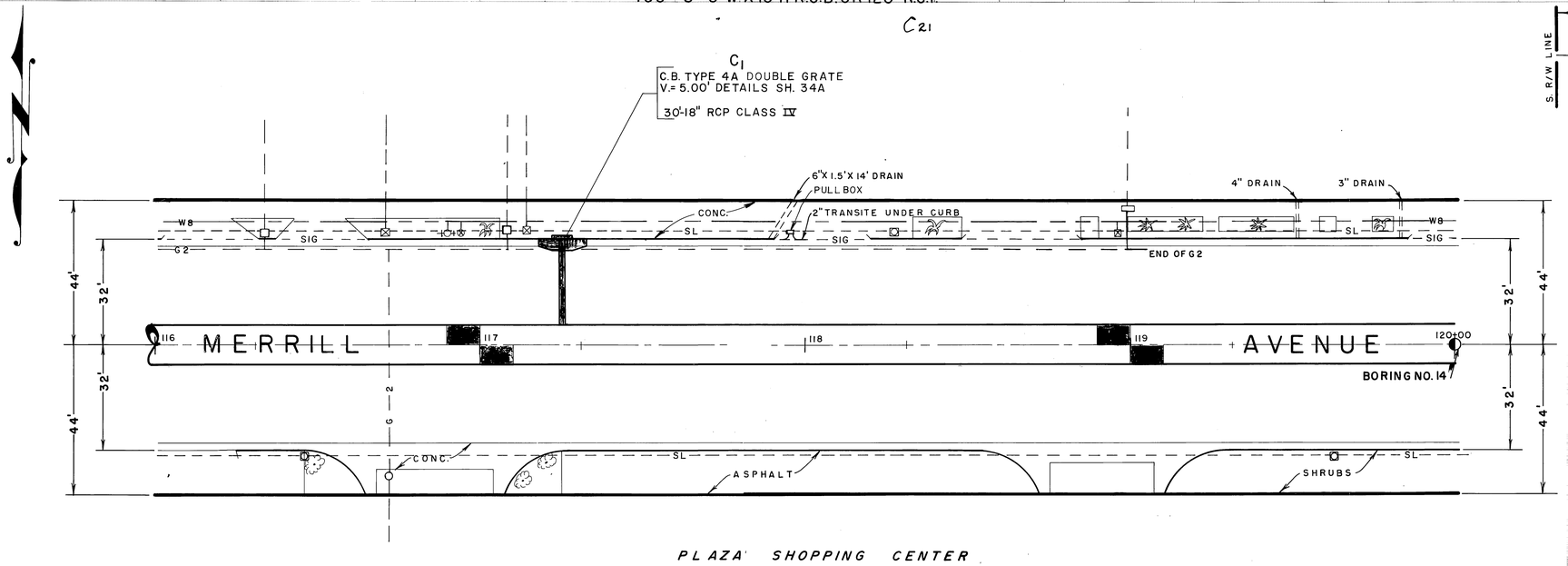
APPROVED: [signature] CHIEF ENGINEER R.E. NO. 8822
DATE: 6-10-71
DRAWN: DZ & WS
TRACED: [signature]
CHECKED: DM & JH
DATE DRAWN: 6-9-71
SHEET NO. 13
DWG. NO. 1-262

PROJECT NO. 1-0-190
AS BUILT

D-241







PLAN

20 0 20 FEET

REFERENCE	DESCRIPTION	APPROVED	DATE
C21	Delete R.C.P. Information		10-13-72
C1	CHANGE CB TYPE 4 TO CB TYPE 4A		7-22-71

— REVISIONS —

REVISED DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN STAGE II

PLAN & PROFILE

STA. 116+00 TO STA. 120+00

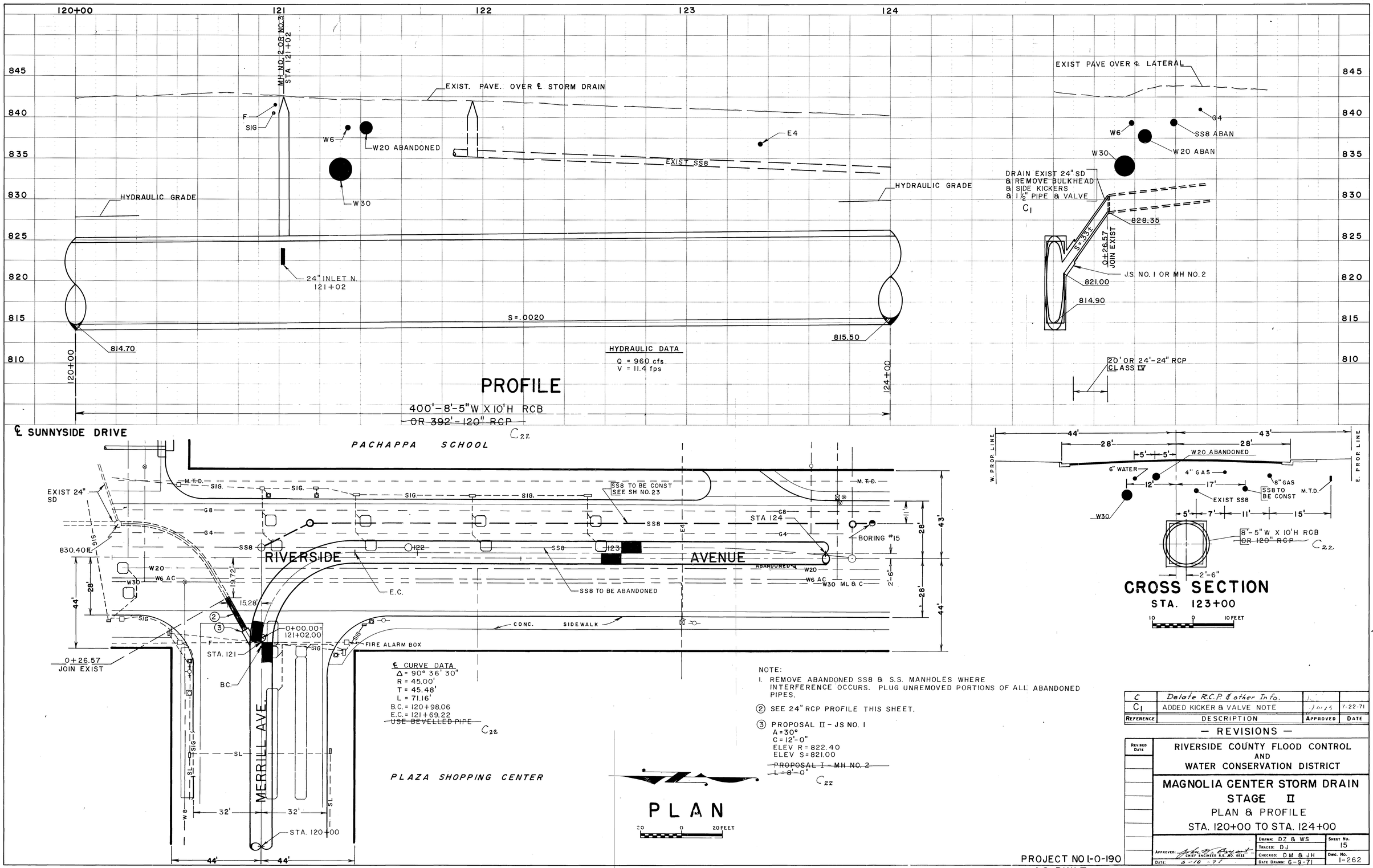
APPROVED: CHIEF ENGINEER R.E. NO. 5022
DATE: 6-10-71

DRAWN: DZ & WS
TRACED: R. E. Reed
CHECKED: DM & JH
DATE DRAWN: 6-9-71

SHEET NO. 14
DWG. NO. 1-262

PROJECT NO. 1-0-190
AS BUILT

D-241



NOTE:

1. REMOVE ABANDONED SS8 & S.S. MANHOLES WHERE INTERFERENCE OCCURS. PLUG UNREMOVED PORTIONS OF ALL ABANDONED PIPES.

(2) SEE 24" RCP PROFILE THIS SHEET.

(3) PROPOSAL II - JS NO. 1
A = 30°
C = 12'-0"
ELEV R = 822.40
ELEV S = 821.00
~~PROPOSAL I - MH NO. 2~~
~~L = 8'-0"~~
C22

REFERENCE	DESCRIPTION	APPROVED	DATE
C	Delete R.C.P. & other Info.		
C1	ADDED KICKER & VALVE NOTE	[illegible]	7-22-71

— REVISIONS —

REVISED DATE

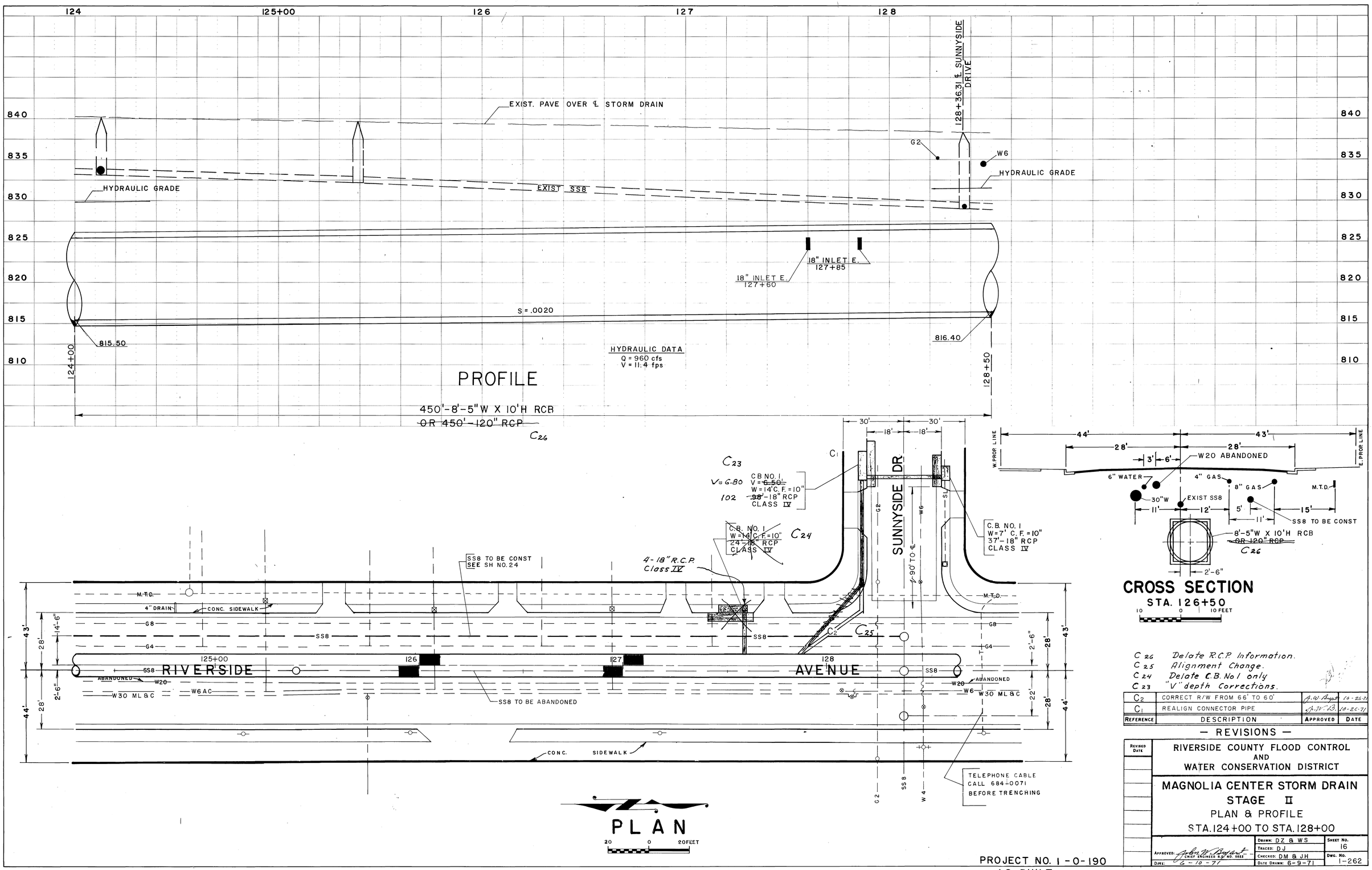
RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
STA. 120+00 TO STA. 124+00

APPROVED: [signature] CHIEF ENGINEER R.E. NO. 6022
DATE: 6-10-71
DRAWN: DZ & WS
TRACED: DJ
CHECKED: DM & JH
DATE DRAWN: 6-9-71
SHEET NO. 15
DWG. NO. 1-262

PROJECT NO 1-0-190
AS BUILT

D-241



C 26 Delete R.C.P. Information.
C 25 Alignment Change.
C 24 Delete C.B. No 1 only
C 23 "V" depth Corrections.

Reference	Description	Approved	Date
C2	CORRECT R/W FROM 66' TO 60'	J.W. Bryant	10-26-71
C1	REALIGN CONNECTOR PIPE	J.W.B.	10-26-71

— REVISIONS —

Revised Date

RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
STA. 124+00 TO STA. 128+00

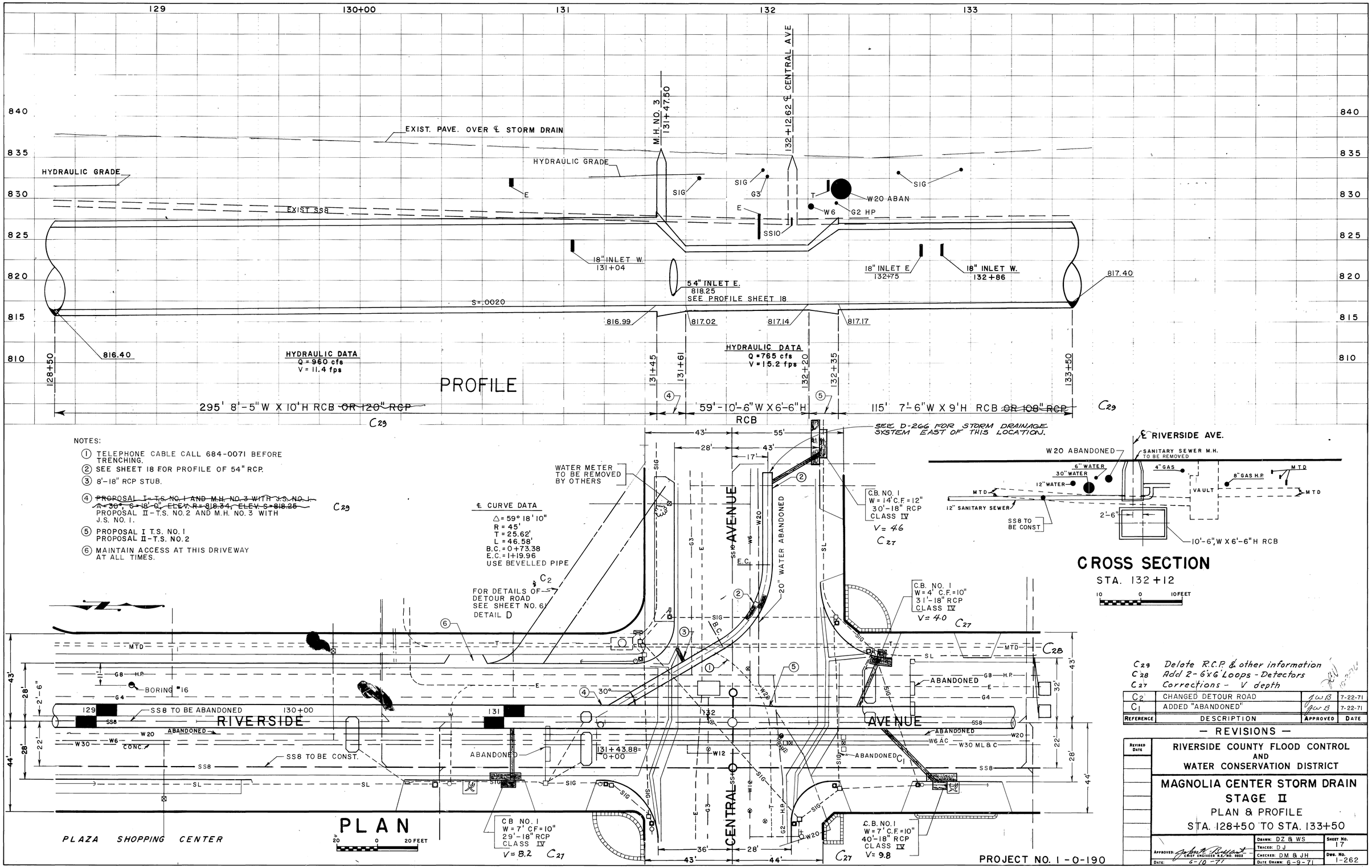
Approved: John W. Bryant, Chief Engineer R.C.F.C. & W.C.D. Date: 6-10-71

Drawn: DZ & WS
Traced: DJ
Checked: DM & JH
Date Drawn: 6-9-71

Sheet No. 16
Dwg. No. 1-262

PROJECT NO. 1-0-190
AS BUILT

D-241



C29 Delete R.C.P. & other information
C28 Add 2-6'x6' Loops - Detectors
C27 Corrections - V depth

REFERENCE	DESCRIPTION	APPROVED	DATE
C2	CHANGED DETOUR ROAD	JWB	7-22-71
C1	ADDED "ABANDONED"	JWB	7-22-71

— REVISIONS —

REVISED DATE

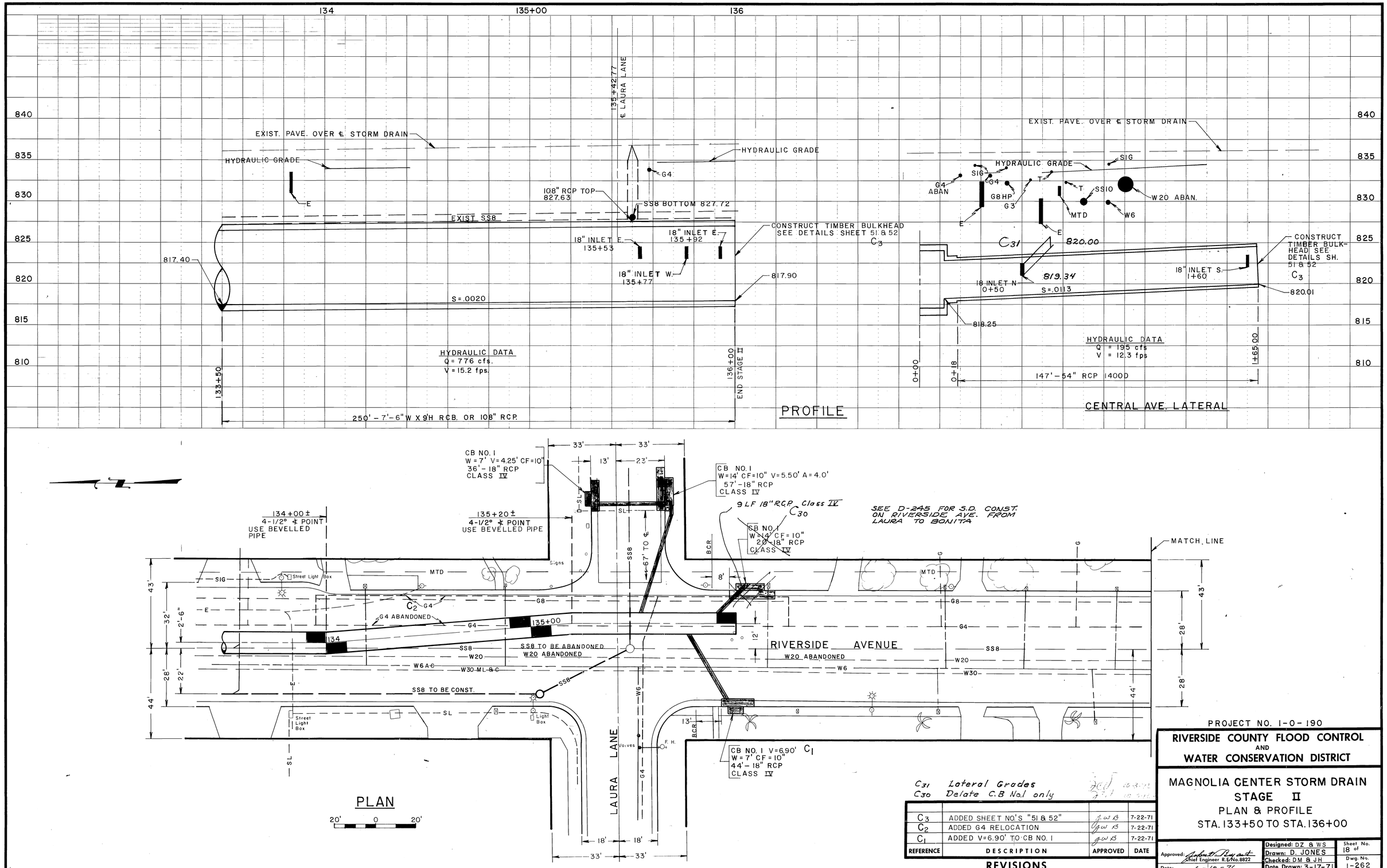
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
STA. 128+50 TO STA. 133+50

APPROVED: John R. Bryant, CHIEF ENGINEER R.E. NO. 9922
DATE: 6-10-71
DRAWN: DZ & WS
TRACED: DJ
CHECKED: DM & JH
DATE DRAWN: 6-9-71
SHEET NO. 17
DWG. NO. 1-262

PROJECT NO. 1-0-190
AS BUILT

D-241



C31 Lateral Grades
C30 Delete C.B No.1 only

REFERENCE	DESCRIPTION	APPROVED	DATE
C3	ADDED SHEET NO'S "51 & 52"	GWB	7-22-71
C2	ADDED G4 RELOCATION	GWB	7-22-71
C1	ADDED V=6.90' TO CB NO. 1	GWB	7-22-71

REVISIONS

AS BUILT

PROJECT NO. 1-0-190

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

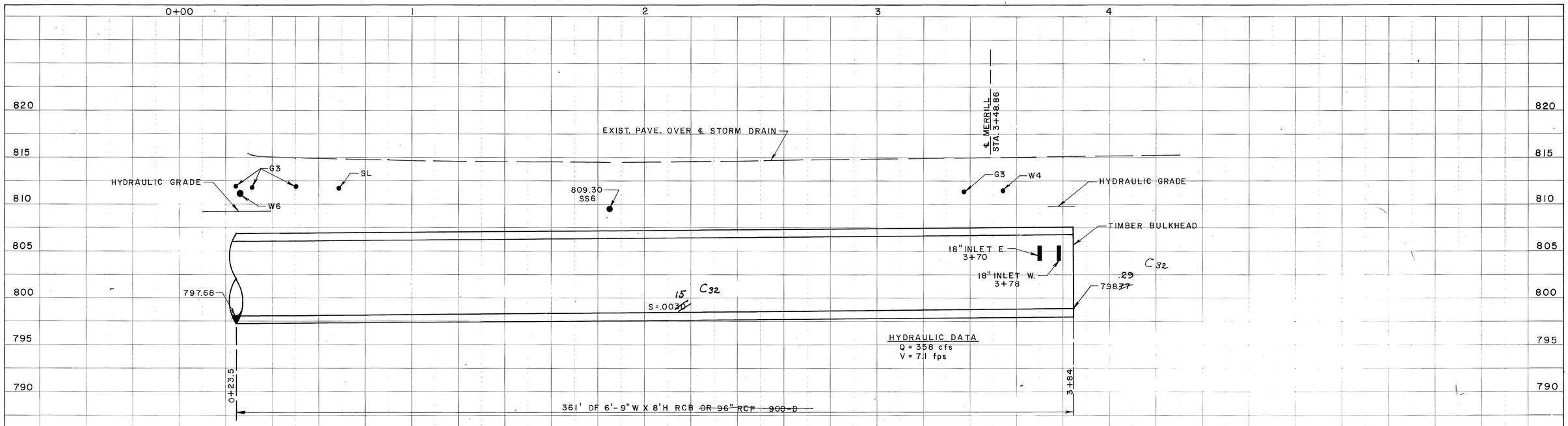
MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
STA. 133+50 TO STA. 136+00

Approved: Robert Bryant
Chief Engineer R.E. No. 8822
Date: 6-10-71

Designed: DZ & WS
Drawn: D. JONES
Checked: DM & JH
Date Drawn: 3-17-71

Sheet No. 18 of
Dwg. No. 1-262

D-241

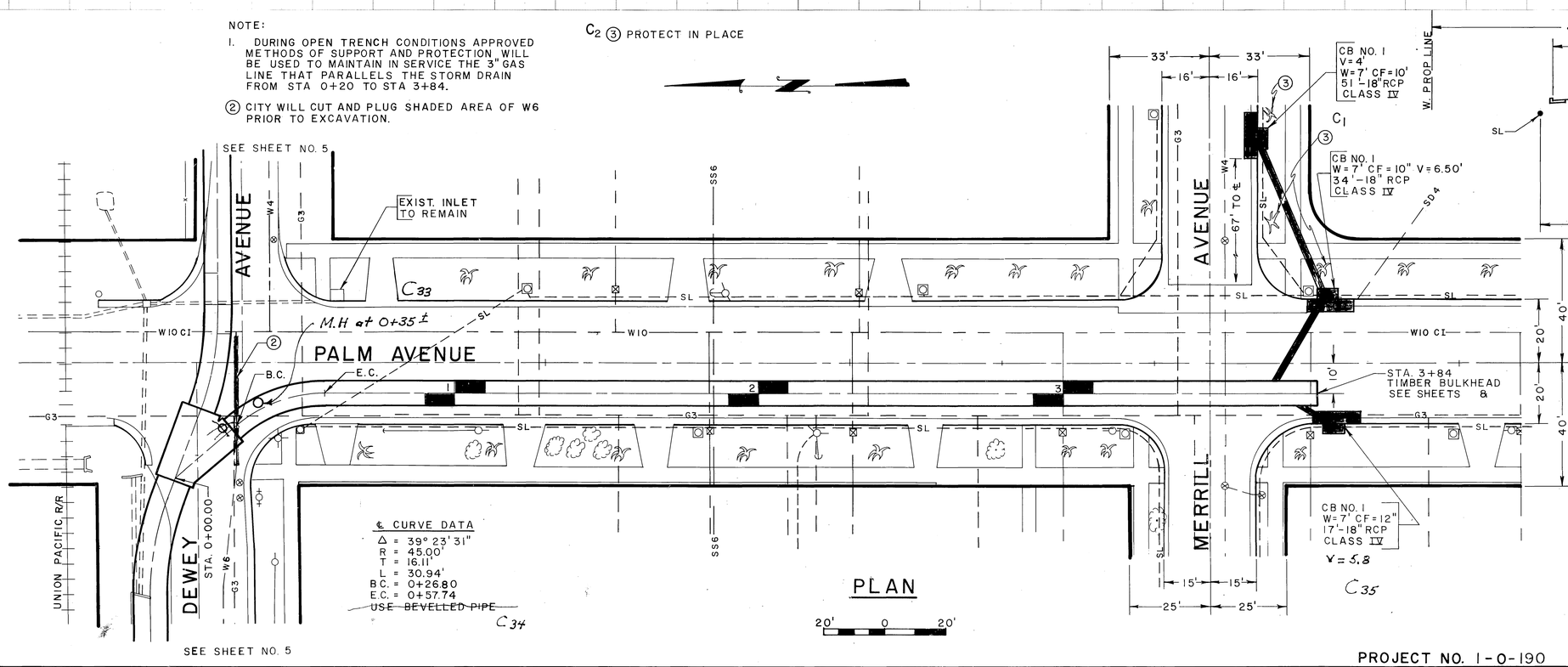


PROFILE

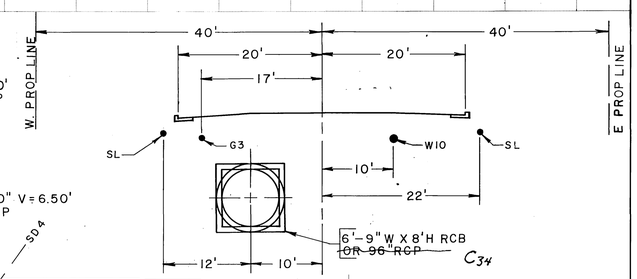
NOTE:

1. DURING OPEN TRENCH CONDITIONS APPROVED METHODS OF SUPPORT AND PROTECTION WILL BE USED TO MAINTAIN IN SERVICE THE 3" GAS LINE THAT PARALLELS THE STORM DRAIN FROM STA 0+20 TO STA 3+84.

(2) CITY WILL CUT AND PLUG SHADED AREA OF W6 PRIOR TO EXCAVATION.



PLAN



CROSS SECTION

STA 103+00

10' 0 10'

REFERENCE	DESCRIPTION	APPROVED	DATE
C35	V depth		
C34	Delate R.C.P. & Info. Change		
C33	M.H. Location		
C32	Grade Change		
C2	ADDED NOTE 3	JWB	7-22-71
C1	ADDED V=4' TO CB NO. 1	JWB	7-22-71

— REVISIONS —

REVISED DATE

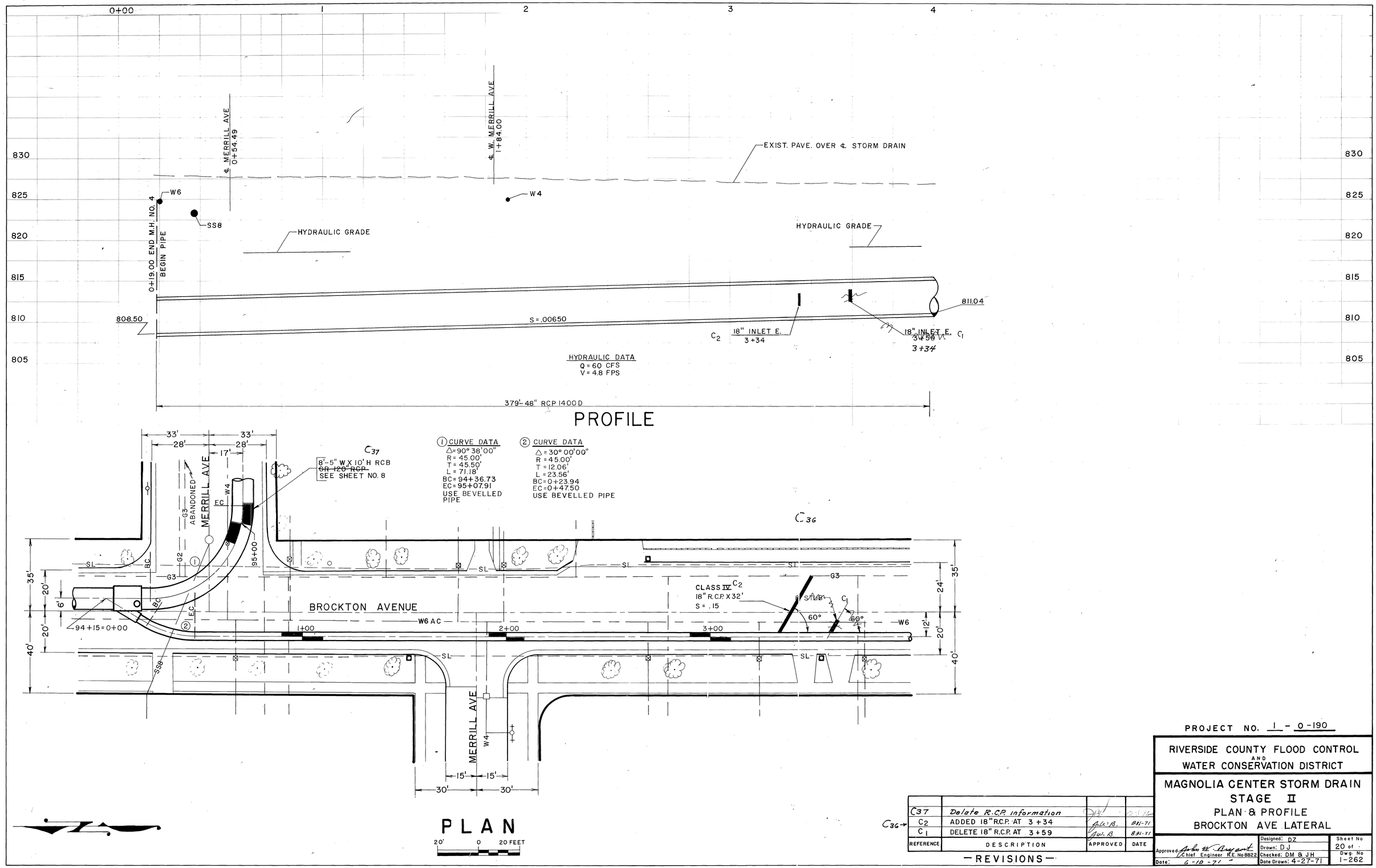
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
PALM AVE. LATERAL

APPROVED: John W. Bryant, CHIEF ENGINEER R.E. NO. 5922	DRAWN: DZ & WS	SHEET NO. 19
	TRACED: DJ	
	CHECKED: DM & JH	DWG. NO. 1-262
DATE: 6-10-71	DATE DRAWN: 6-9-71	

PROJECT NO. 1-0-190
AS BUILT

D-241



PROJECT NO. 1 - 0-190

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
BROCKTON AVE LATERAL

REFERENCE	DESCRIPTION	APPROVED	DATE
C37	Delete R.C.P. information		
C2	ADDED 18" R.C.P. AT 3+34		831-71
C1	DELETE 18" R.C.P. AT 3+59		831-71

C36

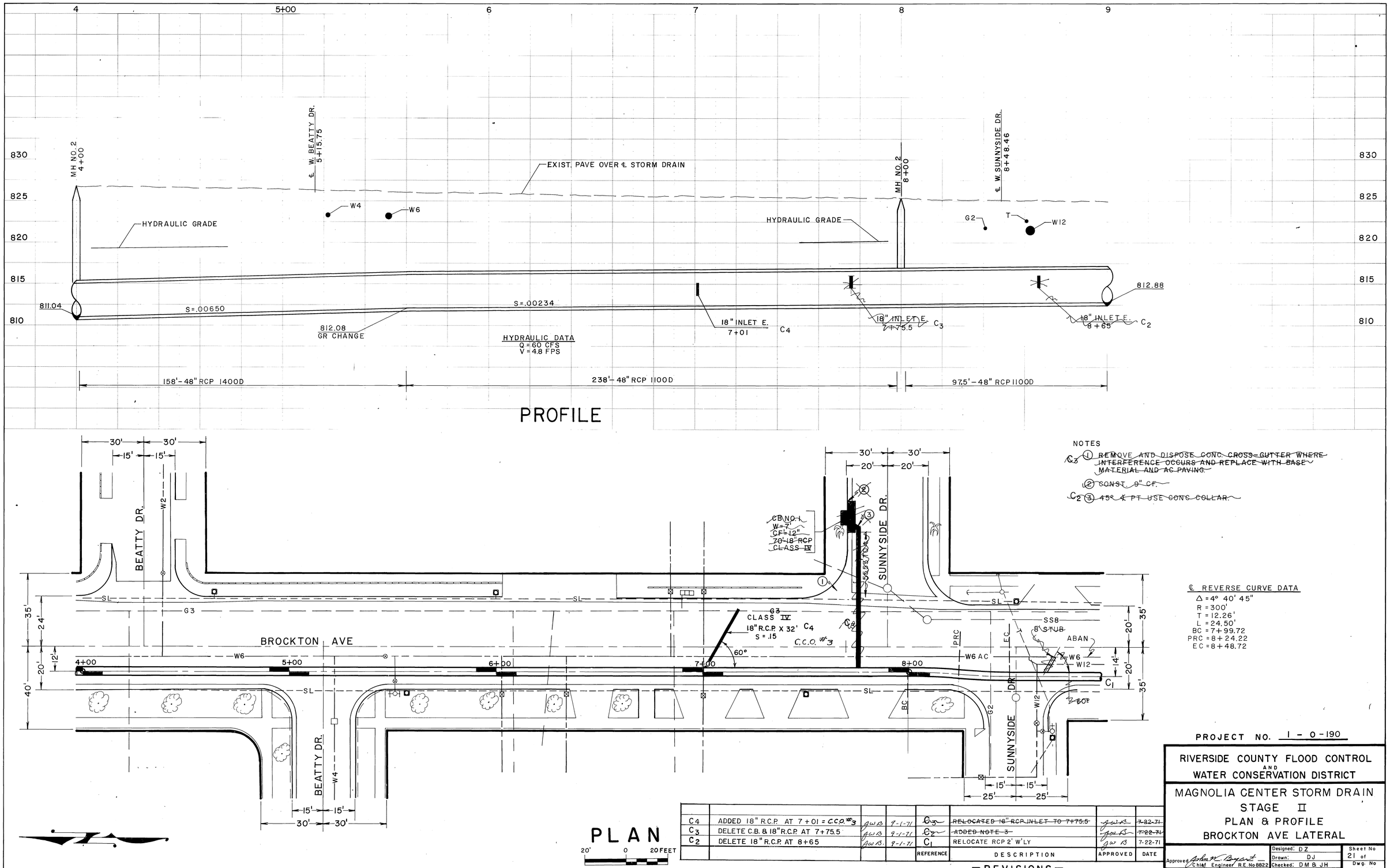
— REVISIONS —
AS BUILT

Approved: Chief Engineer R.E. No. 8822
Date: 6-10-71

Designed: DZ
Drawn: D J
Checked: DM & JH
Date Drawn: 4-27-71

Sheet No 20 of
Dwg. No 1-262

D-241



REFERENCE	DESCRIPTION	APPROVED	DATE
C4	ADDED 18" R.C.P. AT 7+01 = C.C.O. #3	GWB	9-1-71
C3	DELETE C.B. & 18" R.C.P. AT 7+75.5	GWB	9-1-71
C2	DELETE 18" R.C.P. AT 8+65	GWB	9-1-71
~~C3~~	~~RELOCATED 18" RCP INLET TO 7+75.5~~	~~GWB~~	~~7-22-71~~
~~C2~~	~~ADDED NOTE 3~~	~~GWB~~	~~7-22-71~~
C1	RELOCATE RCP 2' W'LY	GWB	7-22-71

— REVISIONS —

AS BUILT

PROJECT NO. 1-0-190

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

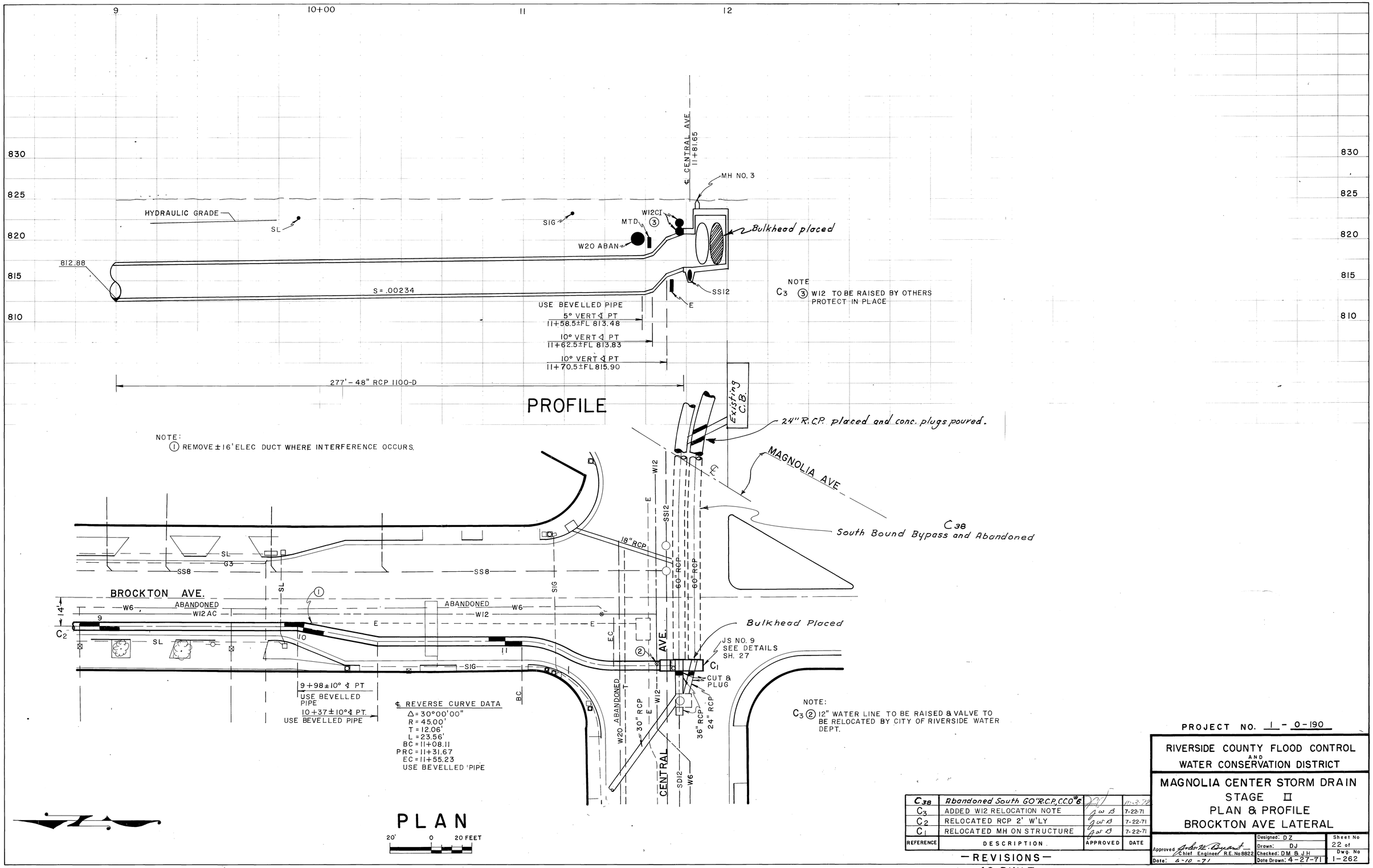
MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
BROCKTON AVE LATERAL

Approved: John W. Bryant, Chief Engineer R.E. No 8822
Date: 6-10-71

Designed: DZ
Drawn: DJ
Checked: DM & JH
Date Drawn: 4-22-71

Sheet No 21 of
Dwg. No 1-262

D-241



REFERENCE	DESCRIPTION	APPROVED	DATE
C38	Abandoned South 60" R.C.P. C.C.O. #6		10-3-72
C3	ADDED W12 RELOCATION NOTE		7-22-71
C2	RELOCATED RCP 2' W'LY		7-22-71
C1	RELOCATED MH ON STRUCTURE		7-22-71

— REVISIONS —

AS BUILT

PROJECT NO. 1 - 0-190

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

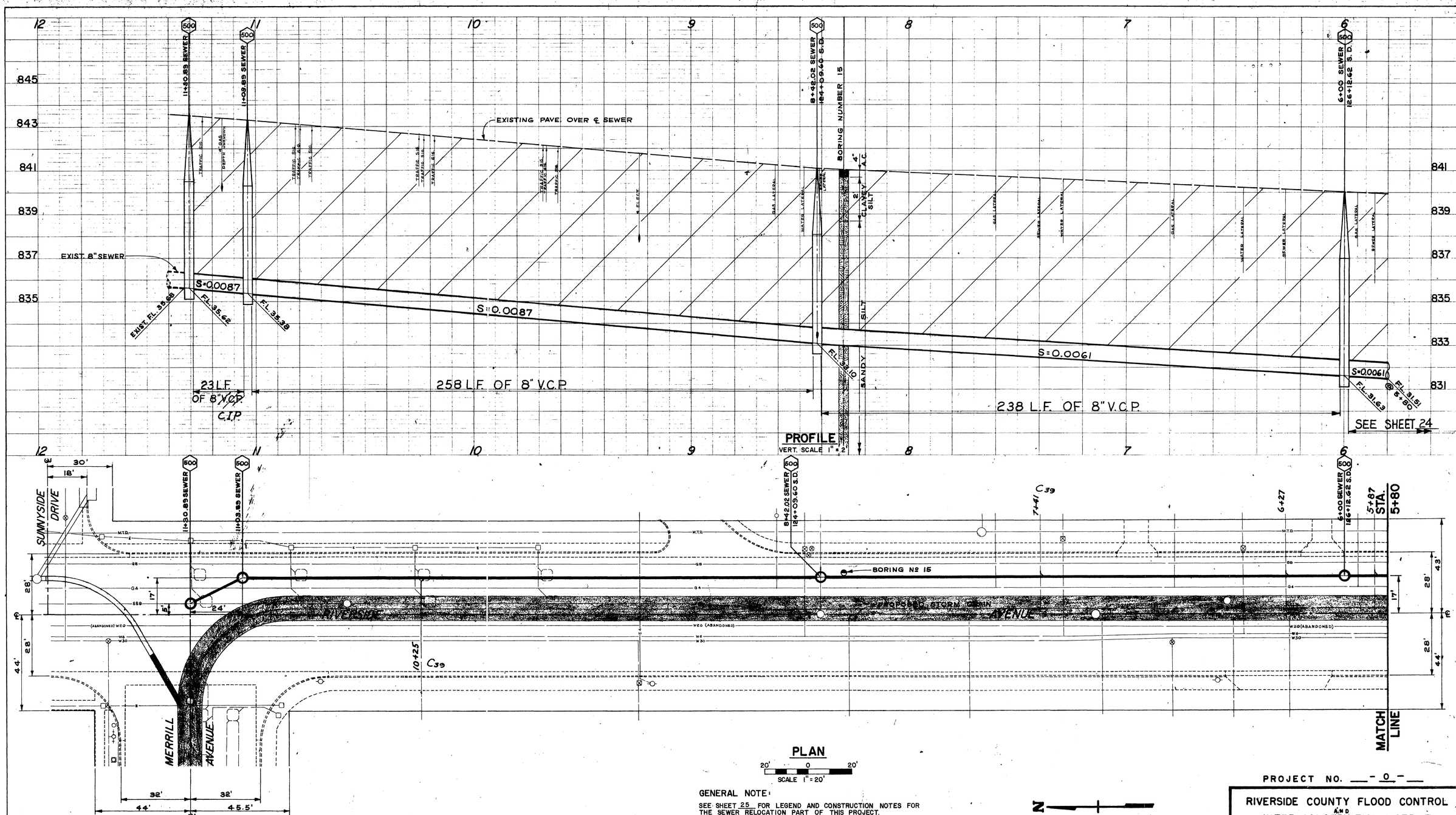
MAGNOLIA CENTER STORM DRAIN
STAGE II
PLAN & PROFILE
BROCKTON AVE LATERAL

Approved: Robert W. Bryant
Chief Engineer R.E. No 8822
Date: 6-10-71

Designed: DZ
Drawn: DJ
Checked: DM & JH
Date Drawn: 4-27-71

Sheet No 22 of
Dwg. No 1-262

D-241



GENERAL NOTE:

SEE SHEET 25 FOR LEGEND AND CONSTRUCTION NOTES FOR THE SEWER RELOCATION PART OF THIS PROJECT.

PROJECT NO. - 0 -

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN
STAGE II
RIVERSIDE SEWER RELOCATION
PLAN & PROFILE
SUNNYSIDE TO MERRILL

CITY OF RIVERSIDE CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CHIEF PUB. WKS. ENGR.		6/7

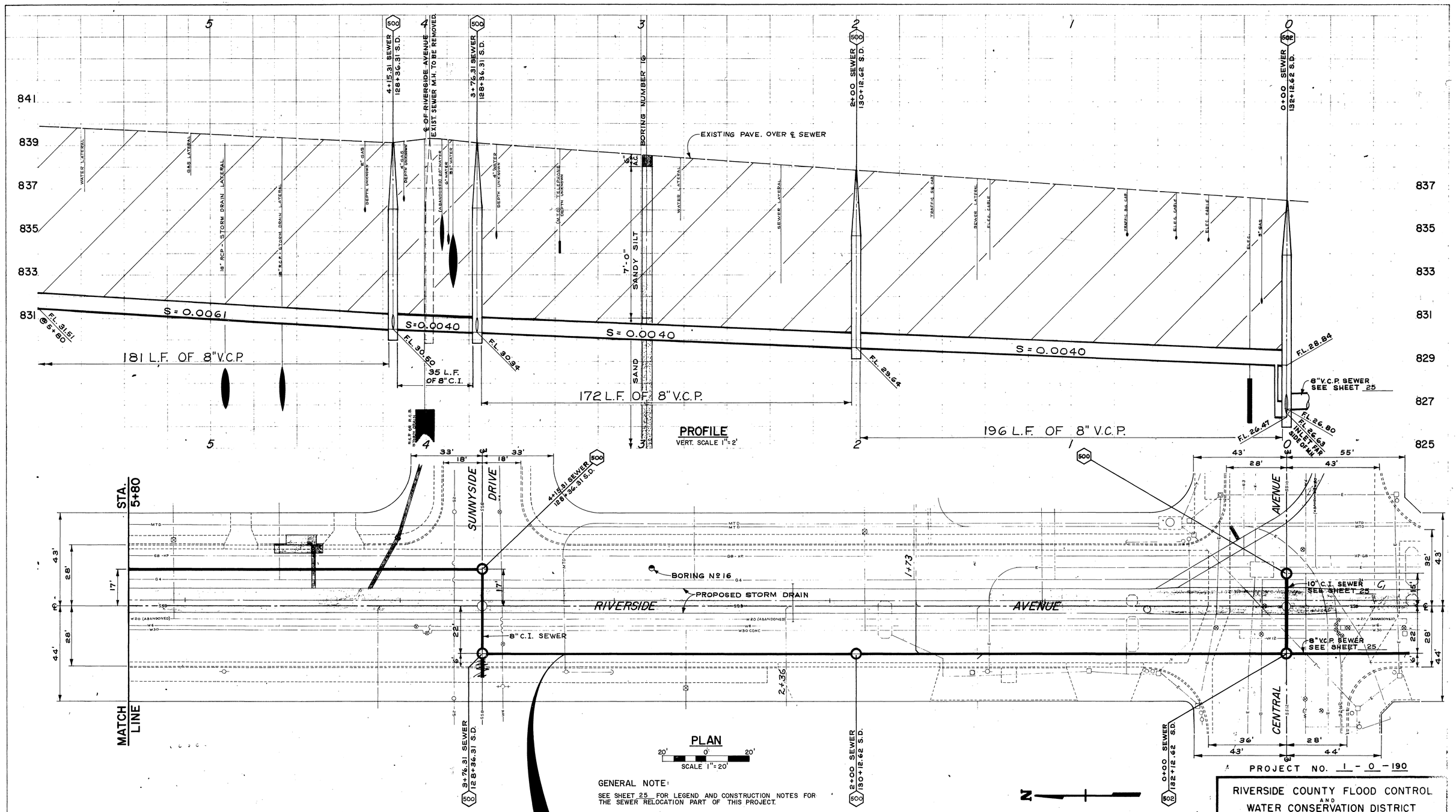
APPROVED BY: DIRECTOR OF PUBLIC WORKS
DATE 6-7-71

REFERENCE	DESCRIPTION	APPROVED	DATE
C39	Lateral Locations		10-3-72

— REVISIONS —
AS BUILT

Approved: Chief Engineer R.E. No. 8822
Date: 6-10-71
Designed: J. Cantu
Drawn: P. Goetz
Checked:
Date Drawn: MAY 1971
Sheet No 23 of
Dwg. No 1-262

D-24



GENERAL NOTE:

SEE SHEET 25 FOR LEGEND AND CONSTRUCTION NOTES FOR THE SEWER RELOCATION PART OF THIS PROJECT.

PROJECT NO. 1 - 0 - 190

-CAUTION-
PACIFIC TELEPHONE
CABLES UNDERGROUND
BEFORE EXCAVATING
CALL COLLECT:
7:30 A.M. to 5 P.M. — After Hours & Holidays
Orange County 714-633-0811 714-547-6606
Riverside County 714-684-0071 714-547-6606

CITY OF RIVERSIDE CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		6/2
CHIEF PUB. WKS. ENGR.		6/7

APPROVED BY: DIRECTOR OF PUBLIC WORKS
DATE 6-7-71

REFERENCE	DESCRIPTION	APPROVED	DATE
C40	Lateral Locations		10-3-72
C1	ADDED SHEET NO. 25 REF		7-22-71

-REVISIONS-

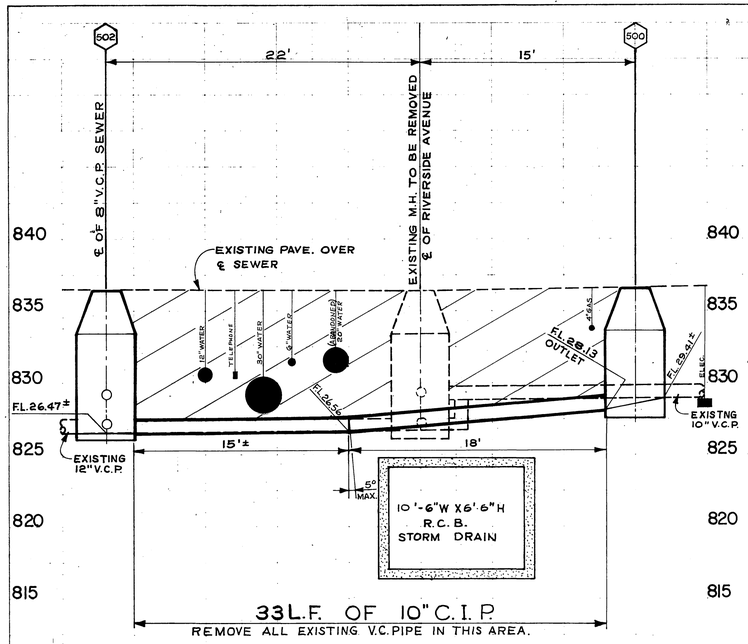
AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN
STAGE II
RIVERSIDE SEWER RELOCATION
PLAN & PROFILE
CENTRAL TO SUNNYSIDE

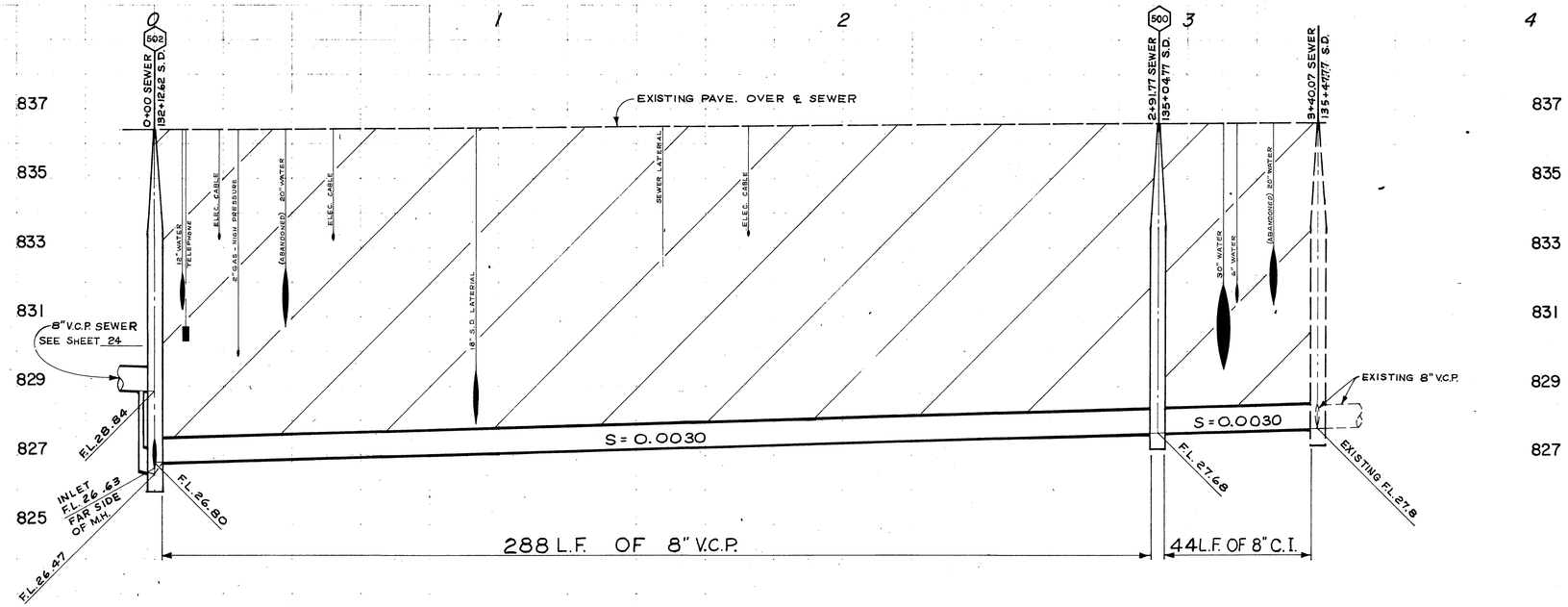
Approved John W. Bryant, Chief Engineer R.E. No 8822
Date: 6-10-71
Designed: J. Cantu
Drawn: J.P. Goetz
Checked: J.H.
Date Drawn: MAY 1971
Sheet No 24 of
Dwg No 1-262

D-241



PROFILE
AT
℄ OF CENTRAL AVENUE

HORIZ. & VERT. SCALE = 1" = 5'



PROFILE
VERT. SCALE = 1" = 2'

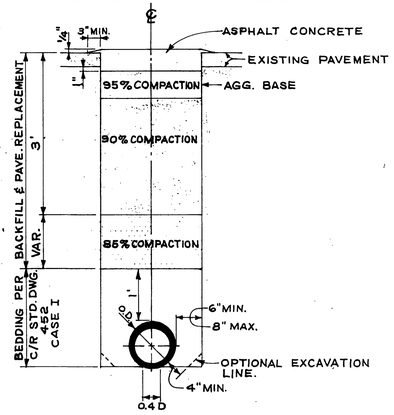
LEGEND:

0+00 (500) CONSTRUCT MANHOLE PER CITY OF RIVERSIDE STD. DWG. 500. APPROVED PRECAST CONCRETE MANHOLES MAY BE USED IN LIEU OF BRICK.

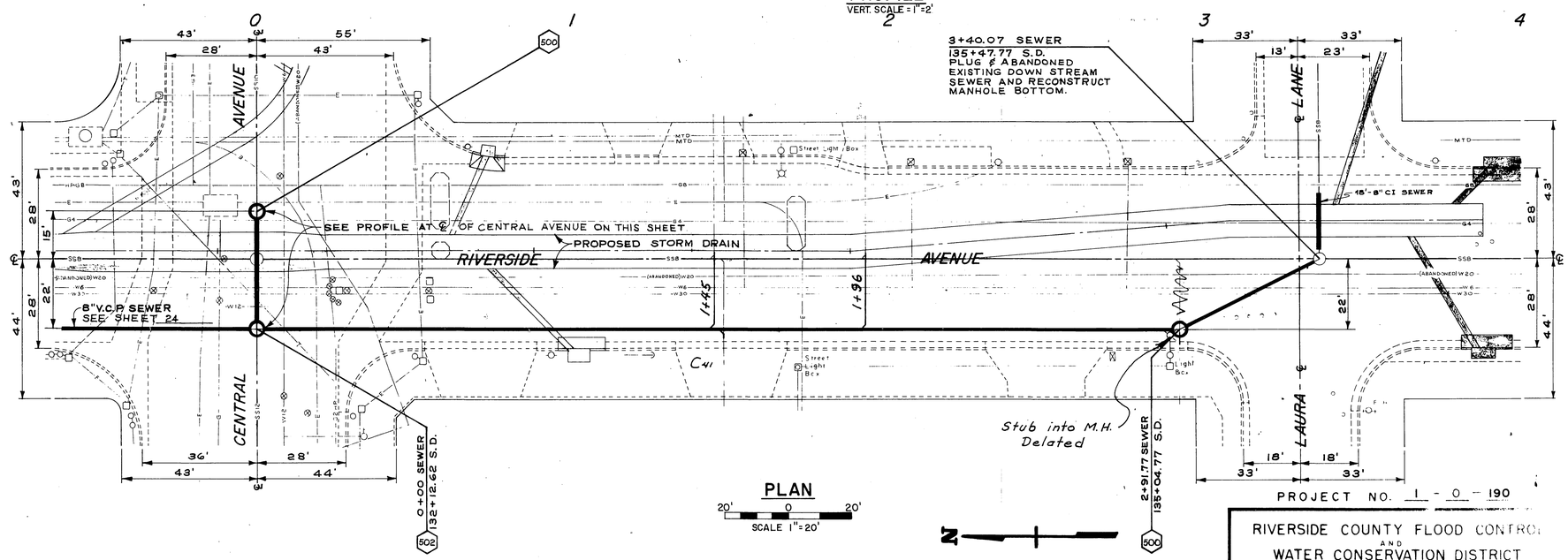
0+00 (502) CONSTRUCT DROP MANHOLE PER CITY OF RIVERSIDE STD. DWG. 502. APPROVED PRECAST CONCRETE MANHOLES MAY BE USED IN LIEU OF BRICK.

CONSTRUCTION NOTES:

1. PIPE SHALL BE 8" VITRIFIED CLAY PIPE WITH TYPE "F" OR "G" JOINTS AS NOTED ON THE PROFILES.
2. PIPE SHALL BE 8" AND 10" CAST IRON PIPE AS NOTED ON THE PROFILES.
3. PIPE BACKFILL AND PAVEMENT REPLACEMENT AS NOTED BELOW:



4. THE ASPHALT CONCRETE WILL BE TYPE I-C-85-100. THICKNESS SHALL BE EXISTING PAVEMENT THICKNESS PLUS ONE (1) INCH (2" MIN.) PRIME COAT WILL BE REQUIRED IF THICKNESS OF A.C. PLACED IS FIVE (5) INCHES OR LESS.
5. THE TYPE AND THICKNESS OF THE BASE SHALL BE EQUAL TO THE BASE REMOVED (4" MIN.). A.C. MAY BE SUBSTITUTED FOR BASE (1" A.C. = 2" BASE) AT THE CONTRACTOR'S OPTION. IF FULL DEPTH A.C. IS USED THE TOP 6" OF SUBGRADE MATERIAL SHALL BE COMPACTED TO A RELATIVE COMPACTION OF 95%.



PLAN
20' 0 20'
SCALE 1" = 20'

PROJECT NO. 1 - 0 - 190

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN STAGE II
RIVERSIDE SEWER RELOCATION
PLAN & PROFILE
CENTRAL TO LAURA LANE

Approved: Chief Engineer R.E. No. 8822
Date: 6-10-71
Designed: J. Castro
Drawn: JPQ
Checked: RVK
Date Drawn: MAY 1971
Scale: 25'
1-262

-CAUTION-
PACIFIC TELEPHONE
CABLES UNDERGROUND
BEFORE EXCAVATING
CALL COLLECT:
7:30 A.M. to 5 P.M. — After Hours & Holidays
Orange County 714-633-0811 714-547-6606
Riverside County 714-684-0071 714-547-6606

CITY OF RIVERSIDE CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CHIEF PUB. WKS. ENGR.		6/7

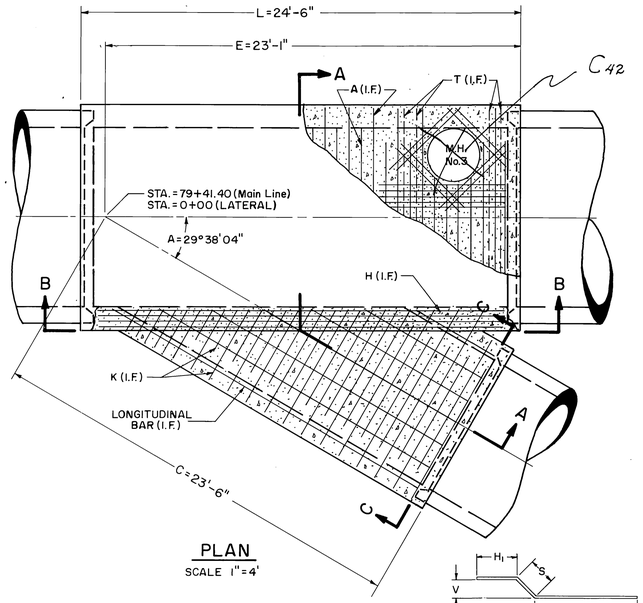
APPROVED BY: DIRECTOR OF PUBLIC WORKS
DATE 6-7-71

REFERENCE	DESCRIPTION	APPROVED	DATE
C41	Lateral Locations		10-3-72

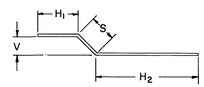
— REVISIONS —

AS BUILT

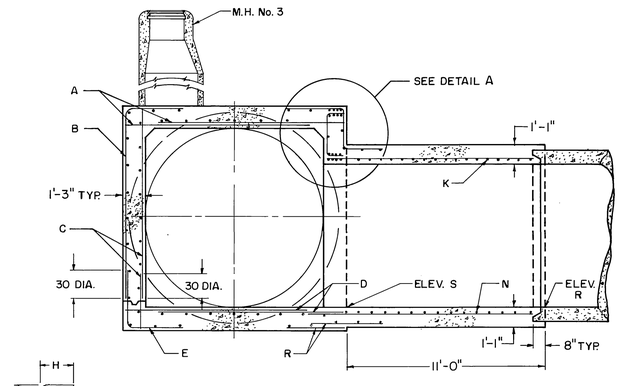
D-241



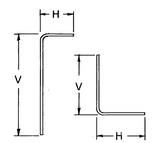
PLAN
SCALE 1"=4'



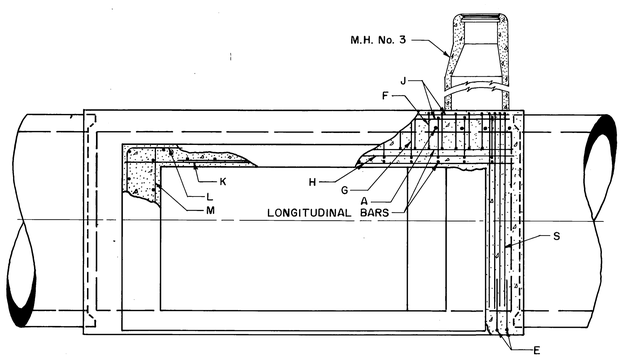
K BAR



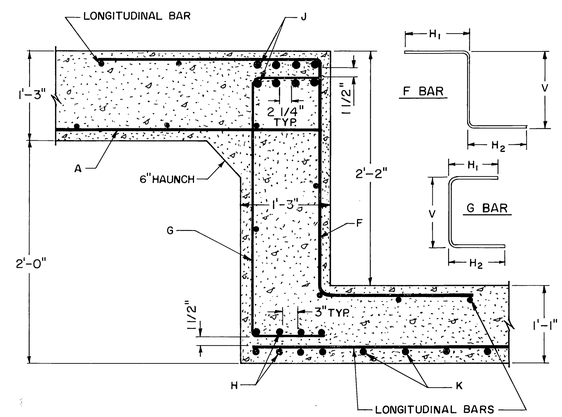
SECTION A-A
SCALE 1"=4'



B BAR E BAR



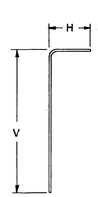
SECTION B-B
SCALE 1"=4'



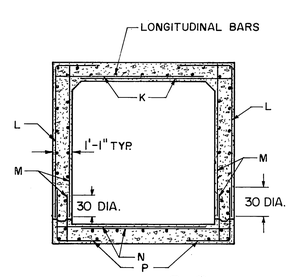
DETAIL A
SCALE 1"=1'

F BAR

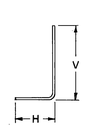
G BAR



L BAR



SECTION C-C
SCALE 1"=4'



P BAR

NOTES:

1. REINFORCING STEEL SHALL BE 1 1/2" CLEAR FROM FACE OF CONCRETE UNLESS OTHERWISE SHOWN.
2. CONCRETE SHALL BE CLASS A WITH $f'c = 3000$ psi AT 28 DAYS.
3. STRUCTURAL NOTES ON SINGLE CELL RCB STRUCTURAL DETAILS SHEET 30 SHALL APPLY.
4. PROPOSAL I, M.H. No. 1A
   A=29°38'04", C=23'-6", E=23'-1", L=24'-6", R=797.68, S=797.65
   THE STRUCTURE IS SHOWN AND DIMENSIONED FOR PROPOSAL I ONLY.

   PROPOSAL II, J.S. No. 1A
   A=29°38'04", C=23'-6", E=23'-1", L=24'-6", R=797.68, S=797.65
   FOR PROPOSAL II THE MAIN LINE SHALL BE 8'-5"W x 10'-0"H AND THE LATERAL SHALL BE 6'-9"W x 8'-0"H. CONTINUOUS TRANSVERSE BARS IN THE TOP AND BOTTOM SLABS SHALL BE ADJUSTED ACCORDINGLY.

STEEL SCHEDULE

BAR	DATA	LENGTH
A	#6 @ 16	10'-3"
B	5 @ 10	H=3'-01/2", V=10'-8"
C	4 @ 18	13'-6"
D	7 @ 17	10'-3"
E	5 @ 10	H=3'-21/2", V=3'-2"
F	5 @ 10	H_1=3'-01/2", H_2=2'-2", V=2'-2"
G	4 @ 18	H_1=11 3/4", H_2=1'-01/2", V=2-61/8"
H	6 @ 33/4	22'-11"
J	8 @ 31/4	22'-11"
K	5 @ 14	H_1=1'-6", S=6", V=41/4", H_2 Varies 6'-53/4" to 0'-0"
L	5 @ 15	H=2'-51/2", V=8'-6"
M	4 @ 18	11'-2"
N	6 @ 16	8'-41/2"
P	5 @ 15	H=2'-51/2", V=3'-0"
R	5 @ 10	3'-21/2"
S	5 @ 5	H=3'-01/2", V=10'-8"
T	#4 @ 8	12'-3"

GENERAL NOTES

ALL TYPES OF STRUCTURES

1. DIMENSIONS FROM FACE OF CONCRETE TO STEEL ARE TO CENTER OF OF BAR UNLESS OTHERWISE SHOWN.
2. CONCRETE DIMENSIONS SHALL BE MEASURED HORIZONTALLY OR VERTICALLY ON THE PROFILE, AND PARALLEL TO OR AT RIGHT ANGLES (OR RADIALLY) TO CENTERLINE OF CONDUIT ON THE PLAN EXCEPT AS OTHERWISE SHOWN.
3. ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" SECTION 801.
4. PLACING OF REINFORCEMENT SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE'S "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" SECTION 803.
5. TRANSVERSE CONSTRUCTION JOINTS SHALL NOT BE PLACED WITHIN 30 INCHES OF MANHOLE OR JUNCTION STRUCTURE OPENINGS.
6. TRANSVERSE CONSTRUCTION JOINTS IN WALLS AND SLABS SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED.
7. THE TRANSVERSE REINFORCING STEEL SHALL TERMINATE 1 1/2 INCHES FROM THE CONCRETE SURFACES UNLESS OTHERWISE SHOWN ON THE STRUCTURAL DETAILS.
8. EXPOSED EDGES OF CONCRETE MEMBERS SHALL BE ROUNDED OR BEVELED.
9. NO SPLICES IN TRANSVERSE STEEL REINFORCEMENT WILL BE PERMITTED OTHER THAN SHOWN ON THE DRAWING WITHOUT APPROVAL OF THE ENGINEER. NO MORE THAN 2 SPLICES WILL BE PERMITTED IN ANY LONGITUDINAL BAR BETWEEN TRANSVERSE JOINTS. SPLICES SHALL BE STAGGERED.
10. LONGITUDINAL STEEL SHALL BE LAPPED 20 BAR DIAMETERS AT SPLICES. TRANSVERSE STEEL SHALL BE LAPPED 30 BAR DIAMETERS AT SPLICES.

REFERENCE	DESCRIPTION	APPROVED	DATE
C42	M.H. Moved	JEL	6-3-72

REVISIONS
AS BUILT

PROJECT NO. 1-0-190

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN
STAGE II
MANHOLE NO. 1A

Approved: John W. Bryant, Chief Engineer R.E. No. 8822
Date: 6-10-71

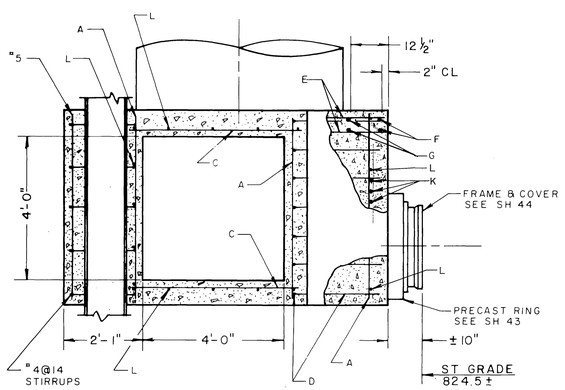
Designed: J.H. & J.E.
Drawn: R.R. Schmidt
Checked: J.E.
Date Drawn: 7/6/71

Sheet No. 26 of
Dwg. No. 1-262

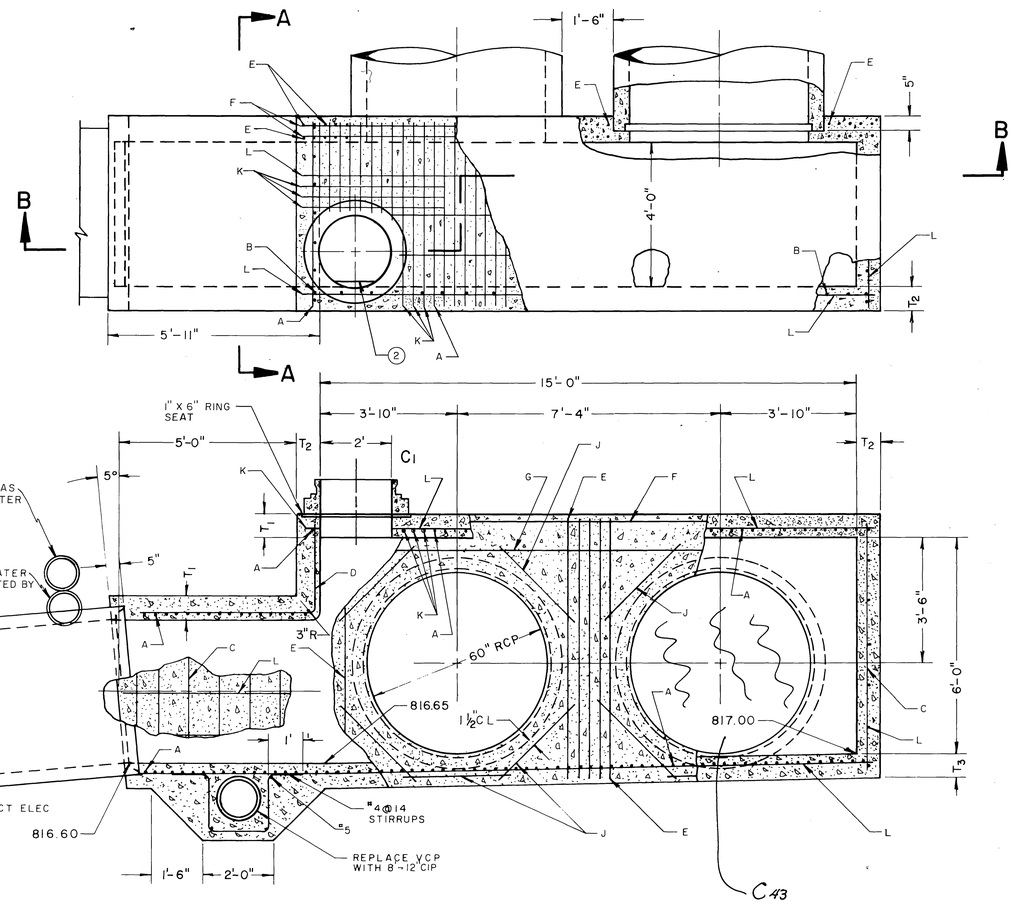
D-241

NOTES:

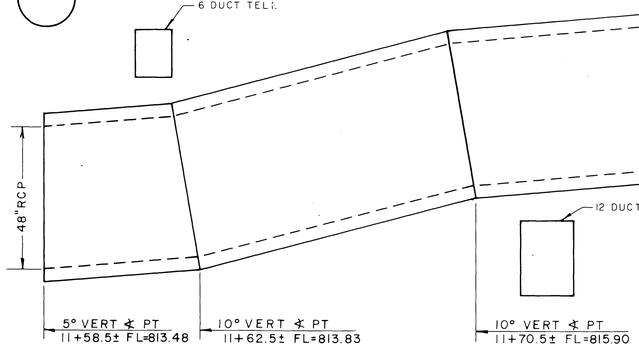
1. REINFORCING STEEL SHALL BE 1½" CLEAR FROM FACE OF CONCRETE UNLESS OTHERWISE SHOWN.
2. (2) STEPS SHALL BE ALHAMBRA NO. A-3320 OR EQUAL AND SHALL BE ANCHORED NOT LESS THAN 6 INCHES IN THE WALLS OF THE STRUCTURE. SPACING WILL BE 15 INCHES AND THE LOWEST STEP SHALL NOT BE MORE THAN 2'-6" ABOVE THE INVERT.
3. CONCRETE SHALL BE CLASS A WITH f'_c=3000 PSI AT 28 DAYS.
4. A CONSTRUCTION JOINT CONFORMING TO THE ONE SHOWN ON SHEET 30 SHALL BE USED 4" ABOVE THE INVERT.



SECTION A-A



SECTION B-B



2.0' 0 2.0'

DATA		DETAIL SCHEDULE
DESIGN COVER		1'-0"
WIDTH		4'-0"
LENGTH		20'-0"
TOP SLAB	T_1	8"
SIDE & END WALL	T_2	8"
BOTTOM SLAB	T_3	8"
A BAR		#6 @ 3½
H		5'-1"
B BAR		#4 @ 10
H		VARIES 7'-1" TO 7'-4½"
C BAR		#4 @ 10
H		7'-1" & 5'-1"
D BAR		#4 @ 10
H		5'-4"
V		2'-0"
E BAR		#4@3½ - 1½" CL EA FACE
H		VARIES 7'-1" TO 7'-4½"
F BAR		2 - #6@3
H		16'-1"
G BAR		2 - #5@3
H		16'-1"
J BAR		2 - #4 2" CL EA FACE
H		3'-0"
K BAR		3 - #7@3½ EW
H		5'-1" & 4'-0"
L BAR SPACERS		#4@18 MAX
H		VARIES 5'-1" & 20'-7"

REFERENCE	DESCRIPTION	APPROVED	DATE
C43	Bulkhead Placed C.C.O. # 6	[illegible]	10-3-72
C2	CHANGED W12 & SHOWED RELOCATION	[illegible]	7-22-71
C1	MOVED MANHOLE FROM S. END	[illegible]	7-22-71

REVISIONS

AS BUILT

PROJECT NO. 1-0-190

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN
STAGE II
JUNCTION STRUCTURE NO. 9

Approved: [signature] Chief Engineer R.E. No. 8822
Date: 6-10-71

Designed: DZ & JH
Drawn: DJ
Checked: DM & JH
Date Drawn: 6-7-71

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Dwg. No. 1-262

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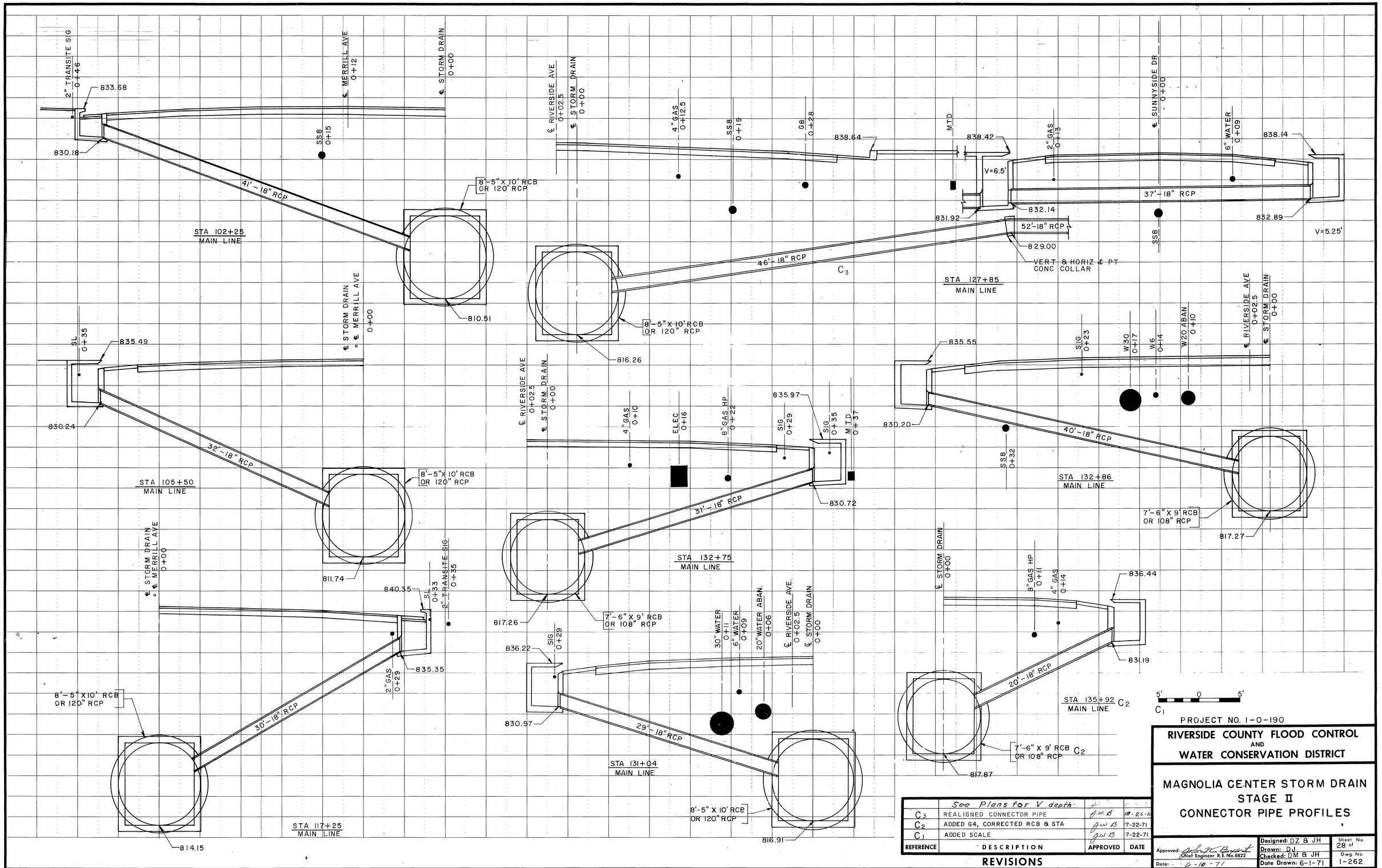
2" TRANSITE SIG 0+46
833.68
830.18
41'-18" RCP
STA 102+25
MAIN LINE
℄ MERRILL AVE 0+12
℄ STORM DRAIN 0+00
SS8 0+15
8'-5" X 10' RCB OR 120" RCP
810.51
℄ STORM DRAIN = ℄ MERRILL AVE 0+00
SL 0+35
835.49
830.24
32'-18" RCP
STA 105+50
MAIN LINE
8'-5" X 10' RCB OR 120" RCP
811.74
℄ STORM DRAIN = ℄ MERRILL AVE 0+00
840.35
SL 0+33
2" TRANSITE SIG 0+35
2" GAS 0+29
835.35
8'-5" X 10' RCB OR 120" RCP
30'-18" RCP
814.15
STA 117+25
MAIN LINE
℄ RIVERSIDE AVE 0+02.5
℄ STORM DRAIN 0+00
4" GAS 0+12.5
SS8 0+19
G8 0+28
838.64
8'-5" X 10' RCB OR 120" RCP
46'-18" RCP
816.26
℄ RIVERSIDE AVE 0+02.5
℄ STORM DRAIN 0+00
4" GAS 0+10
ELEC 0+16
8" GAS HP 0+22
SIG 0+29
835.97
SIG 0+35
MTD 0+37
830.72
31'-18" RCP
STA 132+75
MAIN LINE
817.26
7'-6" X 9' RCB OR 108" RCP
836.22
SIG 0+29
30" WATER 0+11
6" WATER 0+09
20" WATER ABAN. 0+06
℄ RIVERSIDE AVE. 0+02.5
℄ STORM DRAIN 0+00
830.97
29'-18" RCP
STA 131+04
MAIN LINE
8'-5" X 10' RCB OR 120" RCP
816.91
MTD
838.42
V=6.5'
2" GAS 0+13
℄ SUNNYSIDE DR 0+00
6" WATER 0+09
838.14
37'-18" RCP
832.14
831.92
52'-18" RCP
832.89
V=5.25'
829.00
VERT & HORIZ ∠ PT
CONC COLLAR
SS8
C3
STA 127+85
MAIN LINE
℄ RIVERSIDE AVE 0+02.5
℄ STORM DRAIN 0+00
SIG 0+23
W30 0+17
W6 0+14
W20 ABAN 0+10
835.55
830.20
40'-18" RCP
SS8 0+32
STA 132+86
MAIN LINE
7'-6" X 9' RCB OR 108" RCP
817.27
℄ STORM DRAIN 0+00
8" GAS HP 0+11
4" GAS 0+14
836.44
831.19
20'-18" RCP
STA 135+92
MAIN LINE
C2
7'-6" X 9' RCB OR 108" RCP
817.87
5' 0 5'
C1
See Plans for V depth.
C3 REALIGNED CONNECTOR PIPE
C2 ADDED G4, CORRECTED RCB & STA
C1 ADDED SCALE
REFERENCE
DESCRIPTION
APPROVED
DATE
REVISIONS
AS BUILT
PROJECT NO. 1-0-190
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
MAGNOLIA CENTER STORM DRAIN
STAGE II
CONNECTOR PIPE PROFILES
Approved: Chief Engineer R.E. No. 8822
Date: 6-10-71
Designed: DZ & JH
Drawn: DJ
Checked: DM & JH
Date Drawn: 6-1-71
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Dwg. No. 1-262
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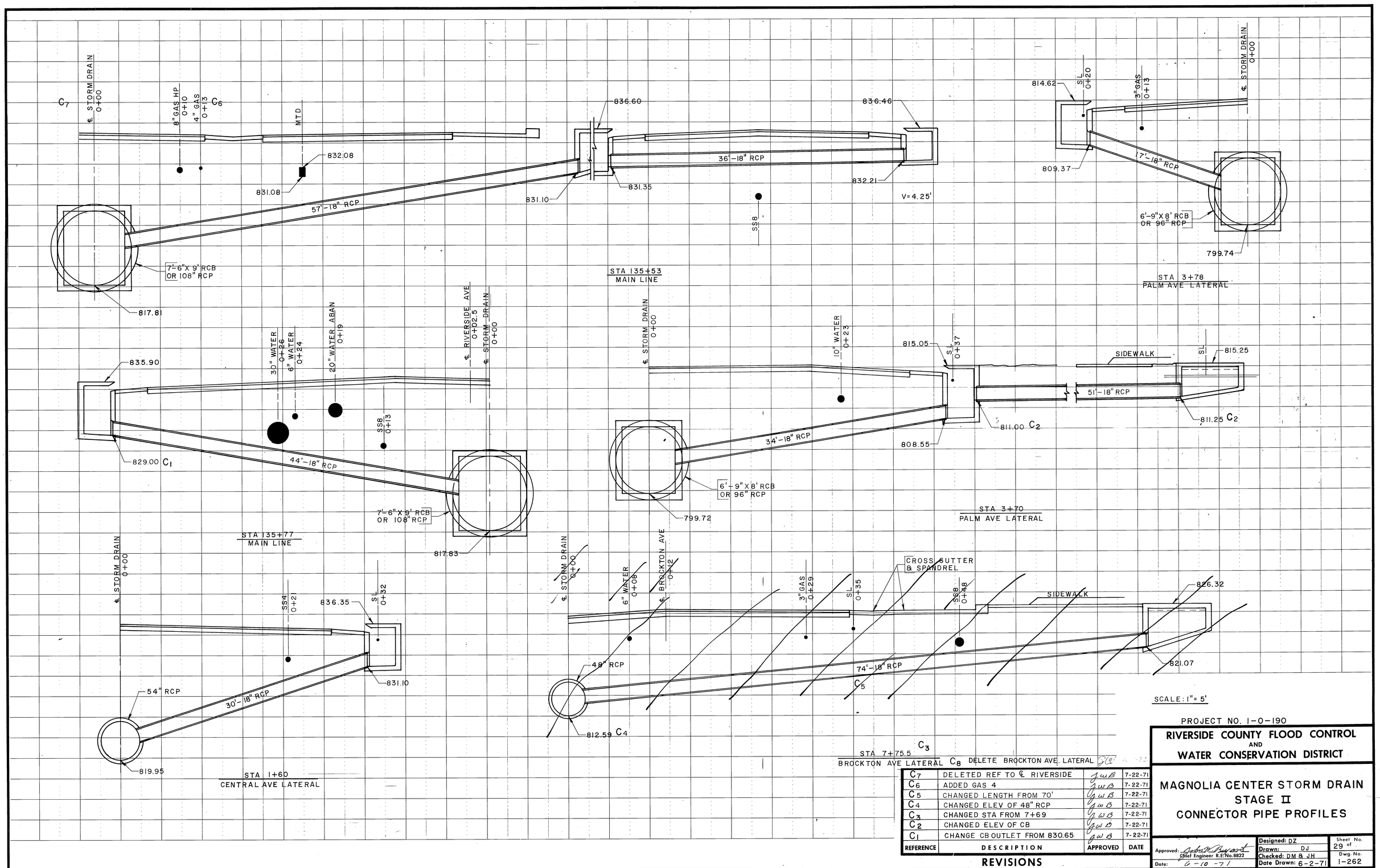

PROJECT NO. 1-0-190

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

MAGNOLIA CENTER STORM DRAIN STAGE II

CONNECTOR PIPE PROFILES

REFERENCE	DESCRIPTION	APPROVED	DATE
C7	DELETED REF TO ℄ RIVERSIDE	JWB	7-22-71
C6	ADDED GAS 4	JWB	7-22-71
C5	CHANGED LENGTH FROM 70'	JWB	7-22-71
C4	CHANGED ELEV OF 48" RCP	JWB	7-22-71
C3	CHANGED STA FROM 7+69	JWB	7-22-71
C2	CHANGED ELEV OF CB	JWB	7-22-71
C1	CHANGE CB OUTLET FROM 830.65	JWB	7-22-71

REVISIONS

AS BUILT

Approved: John R. Bryant, Chief Engineer R.E. No. 8822
Date: 6-10-71

Designed: DZ
Drawn: DJ
Checked: DM & JH
Date Drawn: 6-2-71

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