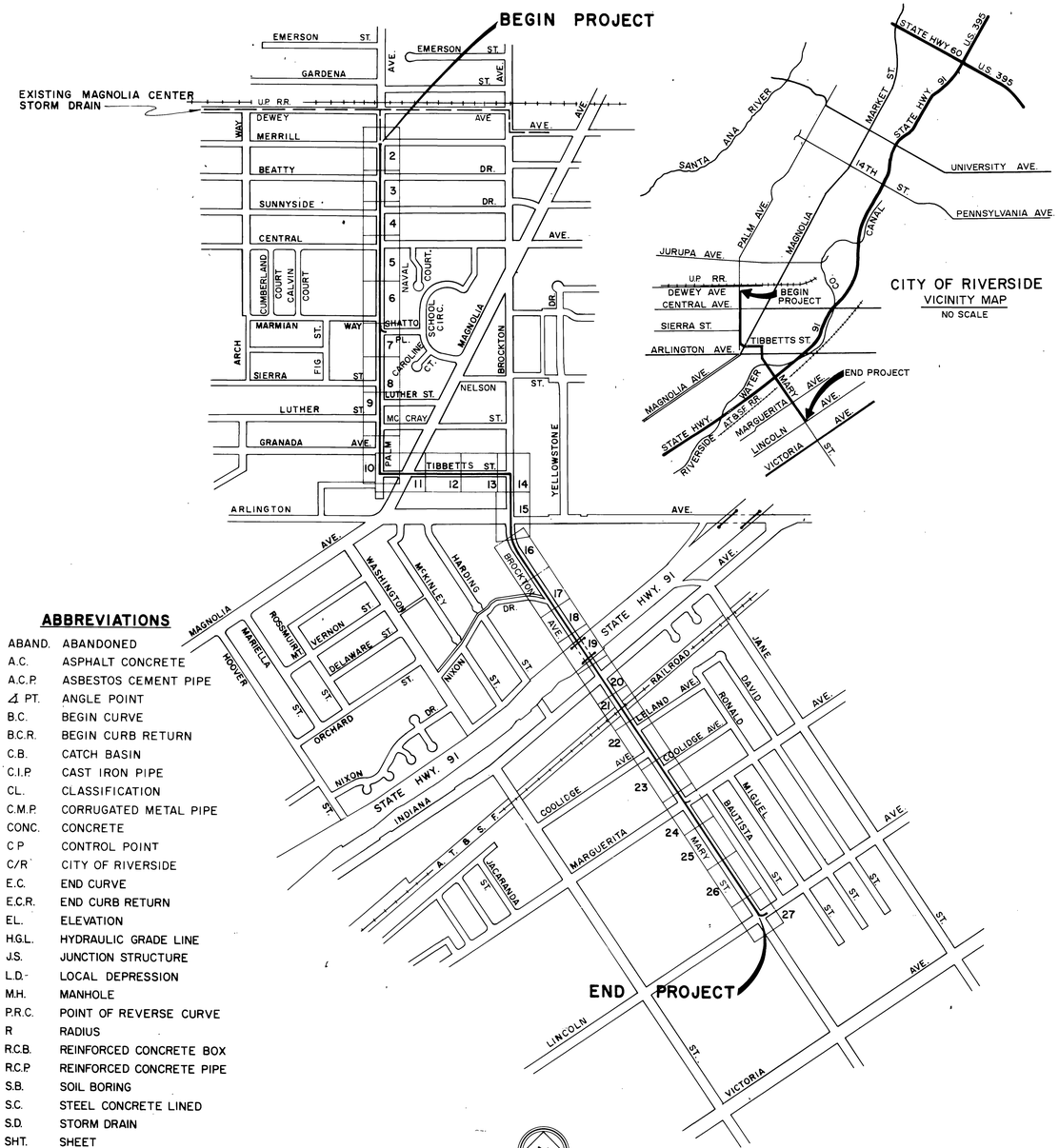
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT



CITY OF RIVERSIDE
VICINITY MAP
NO SCALE

ABBREVIATIONS

ABAND.	ABANDONED
A.C.	ASPHALT CONCRETE
A.C.P.	ASBESTOS CEMENT PIPE
∠ PT.	ANGLE POINT
B.C.	BEGIN CURVE
B.C.R.	BEGIN CURB RETURN
C.B.	CATCH BASIN
C.I.P.	CAST IRON PIPE
CL.	CLASSIFICATION
C.M.P.	CORRUGATED METAL PIPE
CONC.	CONCRETE
C P	CONTROL POINT
C/R	CITY OF RIVERSIDE
E.C.	END CURVE
E.C.R.	END CURB RETURN
EL.	ELEVATION
H.G.L.	HYDRAULIC GRADE LINE
J.S.	JUNCTION STRUCTURE
L.D.	LOCAL DEPRESSION
M.H.	MANHOLE
P.R.C.	POINT OF REVERSE CURVE
R	RADIUS
R.C.B.	REINFORCED CONCRETE BOX
R.C.P.	REINFORCED CONCRETE PIPE
S.B.	SOIL BORING
S.C.	STEEL CONCRETE LINED
S.D.	STORM DRAIN
SHT.	SHEET
S.T.	STEEL PIPE
ST.	STREET
STA.	STATION
T	TANGENT LENGTH
T.S.	TRANSITION STRUCTURE
V C P	VITRIFIED CLAY PIPE

LOCATION MAP

0' 300' 600' 1200'

LEGEND

IRRIGATION LINE	IRR
MTD, MCD TELEPHONE	MTD, MCD
BURIED TELEPHONE CABLE	T
ELECTRIC UNDERGROUND (CONDUITS, DUCTBANKS)	E
FIRE ALARM CONDUIT	F
STREET LIGHT UNDERGROUND (STEEL CONDUIT)	SL
TRAFFIC SIGNAL CONDUIT	SIG
STREET LIGHT STANDARD	
TRAFFIC LOOP	
TRAFFIC LIGHT (OVERHEAD)	
MANHOLE COVER (STORM DRAIN)	
EXISTING FLOW LINE	
SANITARY SEWER LINE	SS 8
GAS LINE	G2
WATER LINE	W4
STORM DRAIN LINE	SD 18
CULVERT WITH HEADWALLS	
POWER POLES	-o- -o- -o-
ANCHOR & POLE	
GAS METER	
WATER METER	
WATER VALVE	
FIRE HYDRANT	
MANHOLE (SEWER)	
FENCE (NOT CHAIN LINK)	
WALL (BLOCK OR MASONRY)	
CATCH BASIN	
JUNCTION STRUCTURE NO.2	
STREET RIGHT OF WAY	
FENCE (CHAIN LINK EXISTING)	
SOIL BORING	
STREET LIGHT	

INDEX

	SHEET NO.
TITLE SHEET	1
MAIN LINE PLAN AND PROFILE SHEETS	2-27
SPECIAL J.S. STRUCTURAL DETAILS	28
CONNECTOR PIPE PROFILES	29-33
TRAFFIC PLANS	34-50
SEWER SIPHON SOUTHERLY OF CENTRAL	51

R.C.F.C.D. STANDARD DRAWINGS

CB 100	CATCH BASIN NO. 1	52
CB 103	MANHOLE FRAME AND COVER FOR CATCH BASINS	52
CB 105	DETAIL OF CATCH BASIN OPENING	53
CB 107	INLET TYPE IX	53
LD 201	LOCAL DEPRESSION NO. 2	54
JS 227	JUNCTION STRUCTURE NO. 2	54-55
JS 228	JUNCTION STRUCTURE NO. 3	55
JS 229	JUNCTION STRUCTURE NO. 4	56
MH 251	MANHOLE NO. 1	56-57
MH 252	MANHOLE NO. 2	57
MH 253	MANHOLE NO. 3	58
MH 254	MANHOLE NO. 4	58-59
MH 255	MANHOLE FRAME AND COVER, NON ROCKING	59
MH 257	MANHOLE SHAFT FOR CAST PIPE	60
MH 259	STANDARD DROP STEP	60
TS 301	TRANSITION NO. 1	61
BX 401	SINGLE CELL R.C.B. STRUCTURAL DETAILS	62
M 802	PIPE BEDDING DETAILS	61
M 803	CONCRETE COLLARS FOR PIPES 12 INCHES THROUGH 66 INCHES	63
M 807	SANITARY SEWER PROTECTION	63
M 808	REMODELING DETAILS HOUSE CONNECTION SEWERS	64
M 812	R.C. BOX EXCAVATION AND BACKFILL PAY LINES	65
M 813	CURB AND GUTTER	65

GENERAL NOTES

1. STANDARD DRAWINGS CALLED FOR ON THE PLAN & PROFILE SHALL CONFORM TO RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT STANDARD DRAWINGS LISTED ON THIS SHEET.
2. HOUSE CONNECTIONS SHALL BE REMODELED ACCORDING TO RIVERSIDE COUNTY FLOOD CONTROL DISTRICT STANDARD DRAWING M 808, AS INDICATED ON THE PLANS BY THE NOTATION "REMODEL", FOLLOWED BY THE PARTICULAR CASE.
3. JUNCTION STRUCTURE NO.4 (PIPE) OR JUNCTION STRUCTURE NO.3 (R.C.B.) SHALL BE CONSTRUCTED FOR JUNCTIONS NOT OTHERWISE SPECIFIED ON THE PLAN OR PROFILE.
4. TIES TO CATCH BASIN ARE FROM THE CURB RETURN TO THE CENTERLINE OF THE BASIN UNLESS OTHERWISE SHOWN.
5. PAVEMENT REPLACEMENT SHALL BE 3" OF ASPHALTIC CONCRETE & 6" OF CLASS III BASE.
6. CURB AND GUTTER SHALL BE REPLACED PER RIVERSIDE COUNTY FLOOD CONTROL STANDARD DRAWING NO. M 813.

C/R STANDARD DRAWINGS

NO. 500	MANHOLE	66
NO. 540	MANHOLE CASTINGS	66
NO. 560	CLEAN OUT	67
NO. 562	SEWER LATERAL	67

INDEXED m.b.

D-297

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO

APPROVED BY:
REGISTERED CIVIL ENGINEER NO. 12116
DATE: 7-28-72

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: R.M.S.
DRAWN BY: L.P.G.
DATE DRAWN: 7-7-72
CHECKED BY: MM

APPROVED BY:
John W. Bryant
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

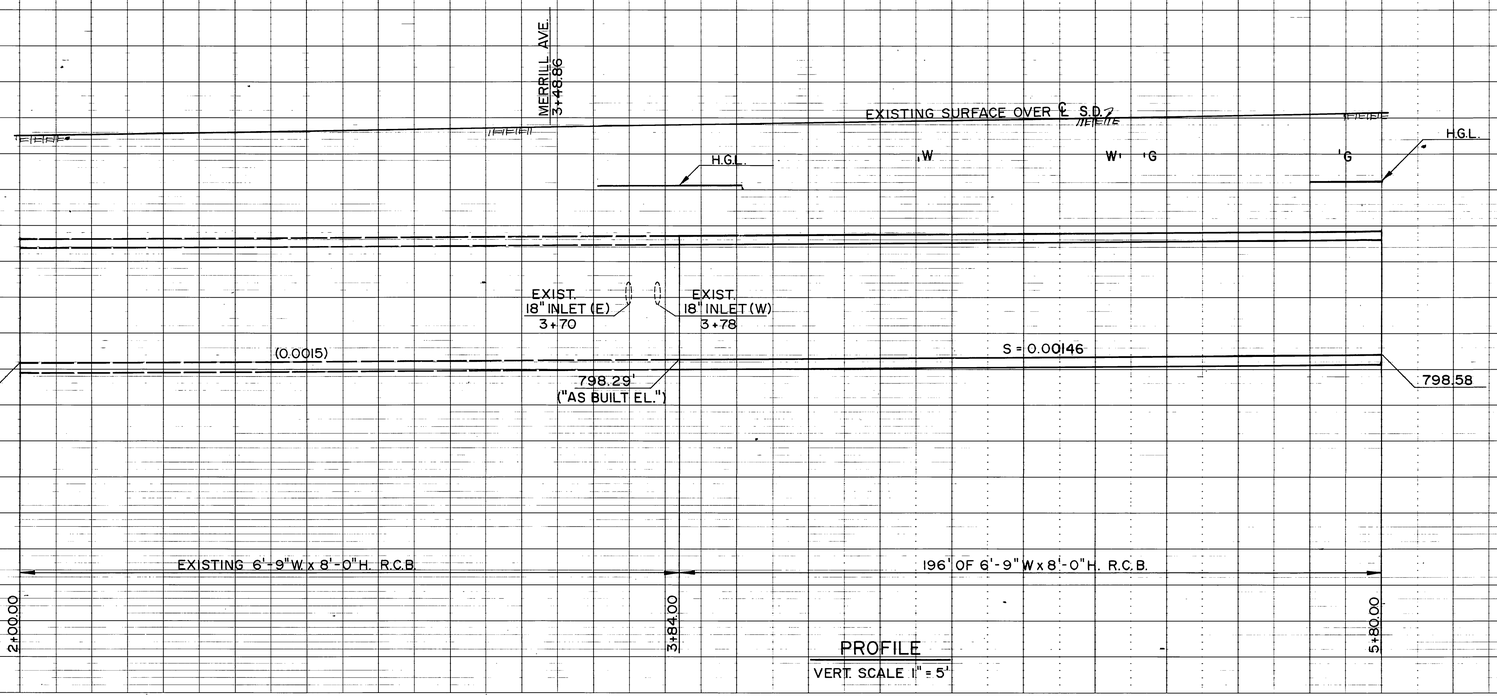
MAGNOLIA CENTER STORM DRAIN
*PALM AVENUE LATERAL
TITLE SHEET
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 1 OF 67

AS BUILT

D-297

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.



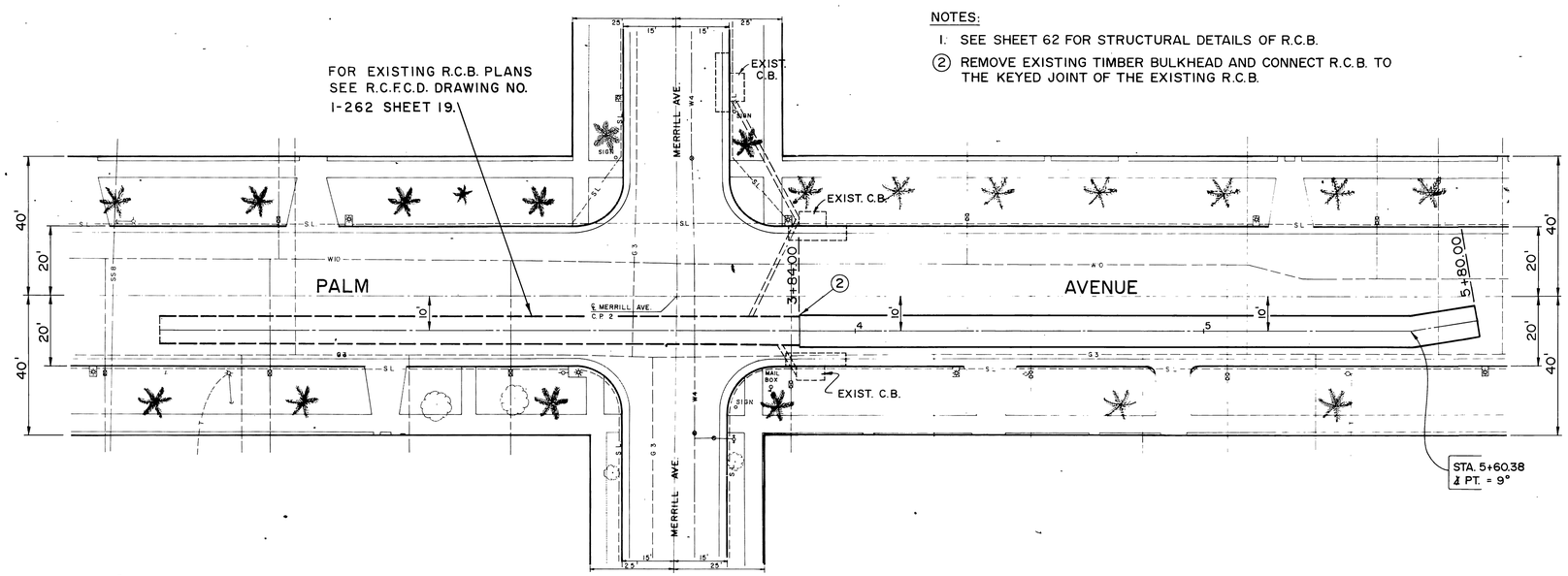
PROFILE

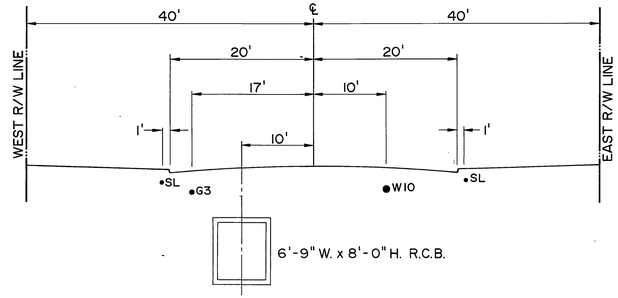
VERT. SCALE 1" = 5'

HYDRAULIC DATA
Q = 358 c.f.s.
V = 6.69 f.p.s.

NOTES:

1. SEE SHEET 62 FOR STRUCTURAL DETAILS OF R.C.B.
2. REMOVE EXISTING TIMBER BULKHEAD AND CONNECT R.C.B. TO THE KEYED JOINT OF THE EXISTING R.C.B.





CROSS SECTION
STA. 4+64.00
SCALE 1"=10'

PLAN
1"=20'
20' 0 20'

BENCH MARK
C.P. NO. 2 - ELEV. = 814.698
TOP OF A RAIL ROAD SPIKE DOWN .15 AT THE INTERSECTION OF PALM & MERRILL.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO
APPROVED BY:
DATE: 7-28-72
REGISTERED CIVIL ENGINEER NO. 12116

REVISIONS			
	No Change		
R.E.F.	DESCRIPTION	APPR.	DATE

AS BUILT

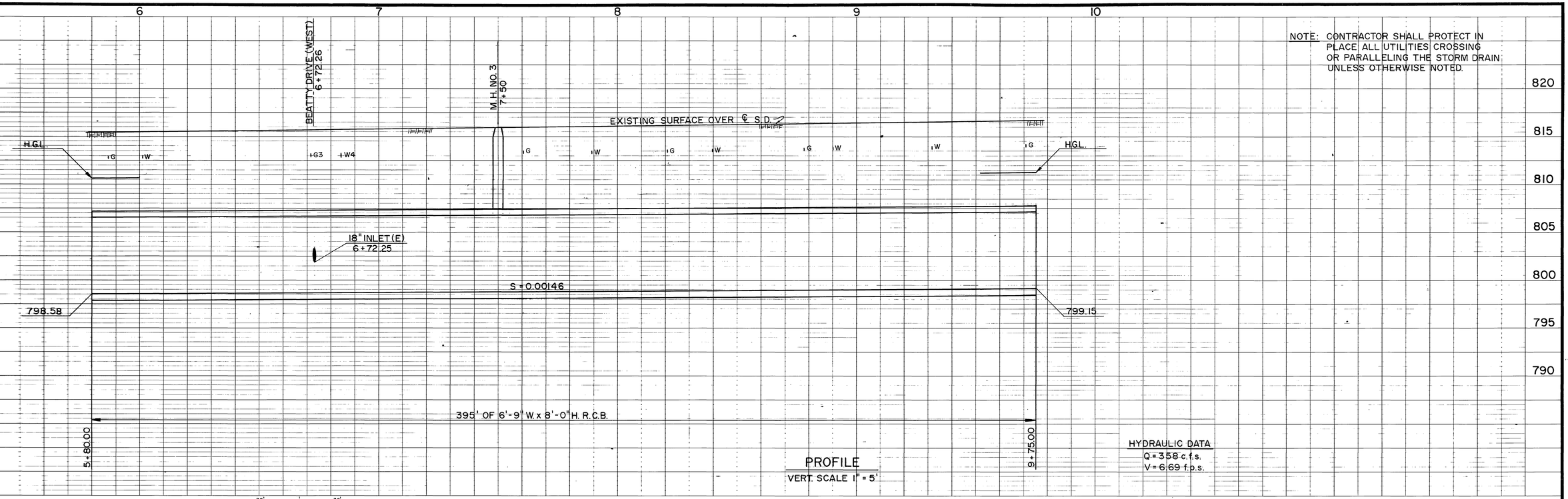
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED BY: F. M. O.
DRAWN BY: B. S.
DATE DRAWN: 7-72
CHECKED BY: MJV
APPROVED BY: John K. Bryant
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 3+84 TO STA. 5+80
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

D-297

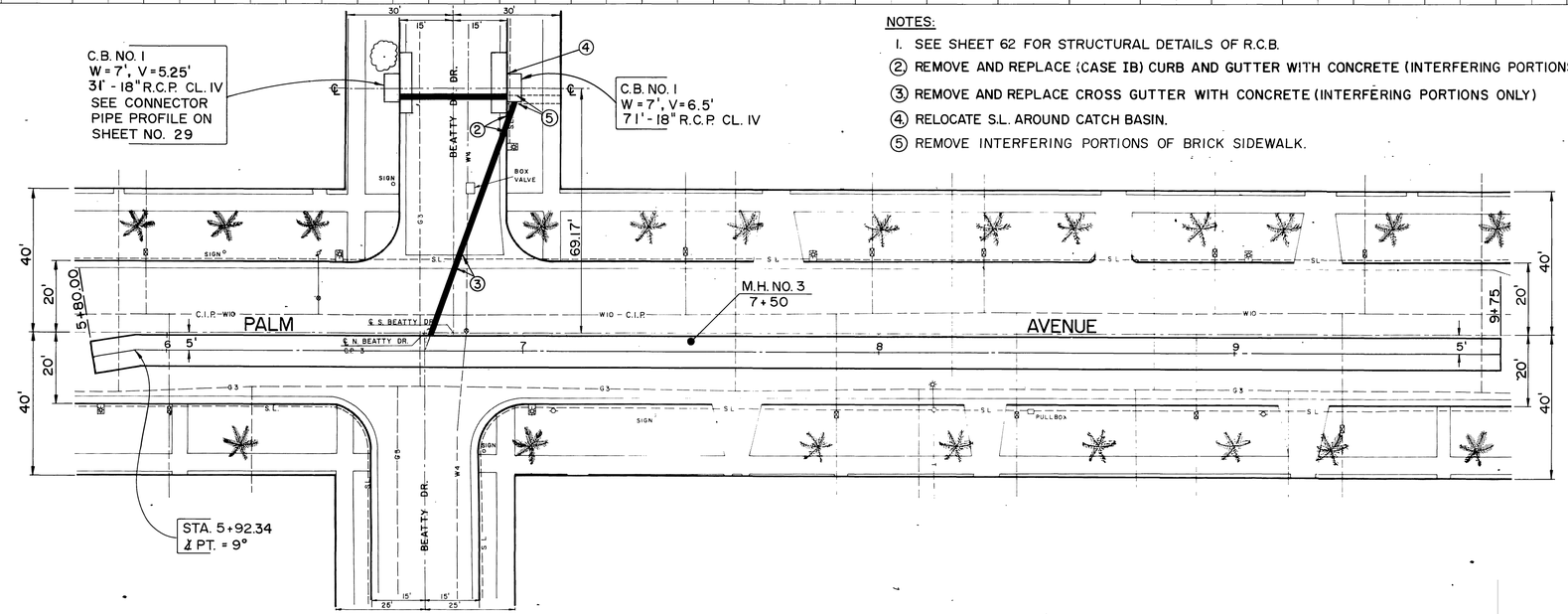
PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 2 OF 67

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.

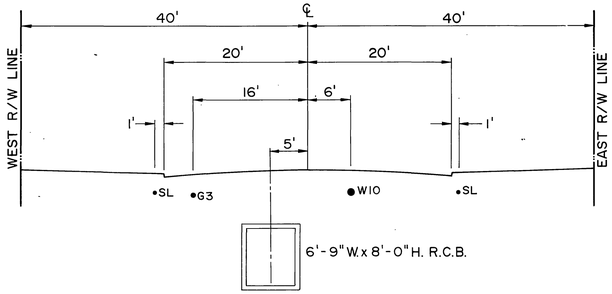


PROFILE
VERT. SCALE 1" = 5'

HYDRAULIC DATA
Q = 358 c.f.s.
V = 6.69 f.p.s.



NOTES:
1. SEE SHEET 62 FOR STRUCTURAL DETAILS OF R.C.B.
2. REMOVE AND REPLACE (CASE IB) CURB AND GUTTER WITH CONCRETE (INTERFERING PORTIONS ONLY).
3. REMOVE AND REPLACE CROSS GUTTER WITH CONCRETE (INTERFERING PORTIONS ONLY)
4. RELOCATE S.L. AROUND CATCH BASIN.
5. REMOVE INTERFERING PORTIONS OF BRICK SIDEWALK.



CROSS SECTION
STA. 8+16.00
SCALE 1"=10'

PLAN
1"=20'
20' 0 20'

BENCH MARK
C.P. NO. 3 - ELEV. = 815.790'
TOP OF A NAIL & RIV. CITY TAG FLUSH AT THE INTERSECTION OF PALM & BEATTY DRIVE.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO
APPROVED BY:
DATE: 7-28-72
REGISTERED CIVIL ENGINEER NO. 12116

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
	No Change		

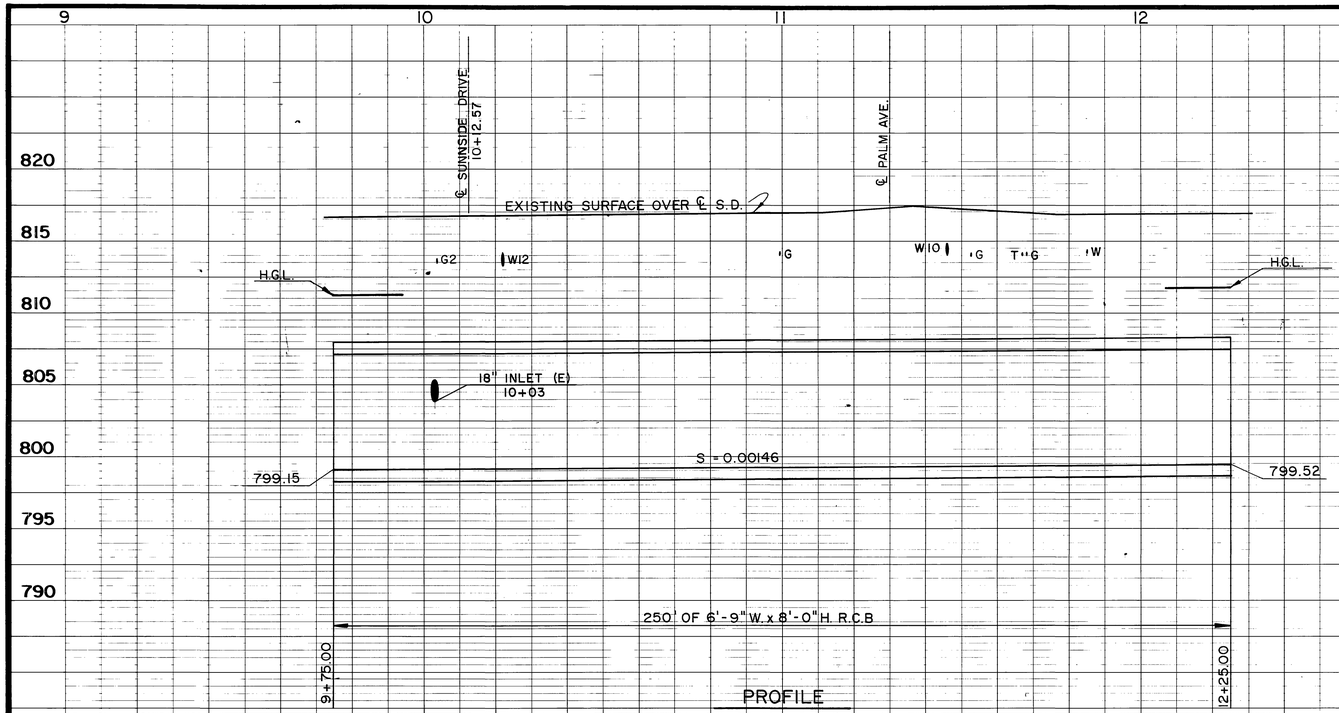
AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED BY: F.M.O.
DRAWN BY: L.P.O.
DATE DRAWN: 7-72
CHECKED BY: MMV
APPROVED BY:
CHIEF ENGINEER R.E./NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 5+80 TO STA. 9+75
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 3 OF 67

D-297

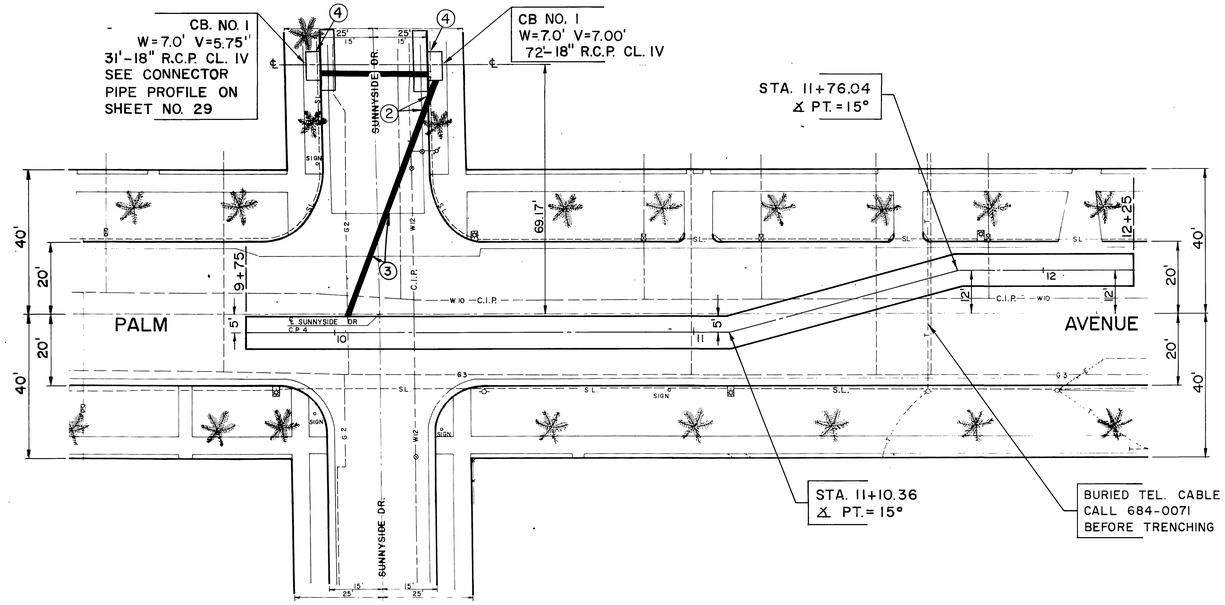


PROFILE

VERT. SCALE 1" = 5'

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.

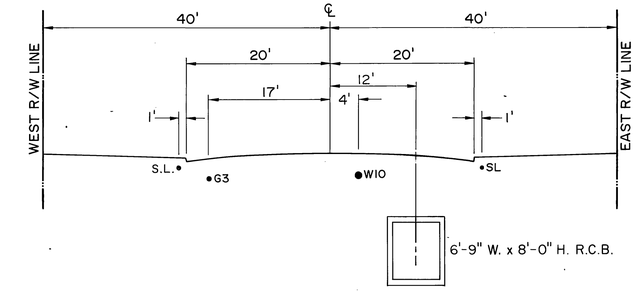
HYDRAULIC DATA
Q = 358 c.f.s.
V = 6.69 f.p.s.



PLAN

1" = 20'

20' 0 20'



CROSS SECTION

STA. 12+00.00
SCALE 1" = 10'

NOTES:

1. SEE SHEET 62 FOR STRUCTURAL DETAILS OF R.C.B.
2. REMOVE AND REPLACE (CASE 1B) CURB AND GUTTER WITH CONCRETE (INTERFERING PORTIONS ONLY).
3. REMOVE AND REPLACE CROSS GUTTER WITH CONCRETE (INTERFERING PORTIONS ONLY).
4. RELOCATE S.L. AROUND CATCH BASIN.

D-297

BENCH MARK
C.P. NO. 4 - ELEV. = 816.958'
TOP NAIL & RIV. CITY TAG FLUSH AT THE INTERSECTION OF PALM & SUNNYSIDE DRIVE.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO

APPROVED BY:
REGISTERED CIVIL ENGINEER NO. 12116
DATE: 7-28-72

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: F.M.O.
DRAWN BY: B.S.
DATE DRAWN: 7-72
CHECKED BY:

APPROVED BY:
CHIEF ENGINEER R.E./NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN

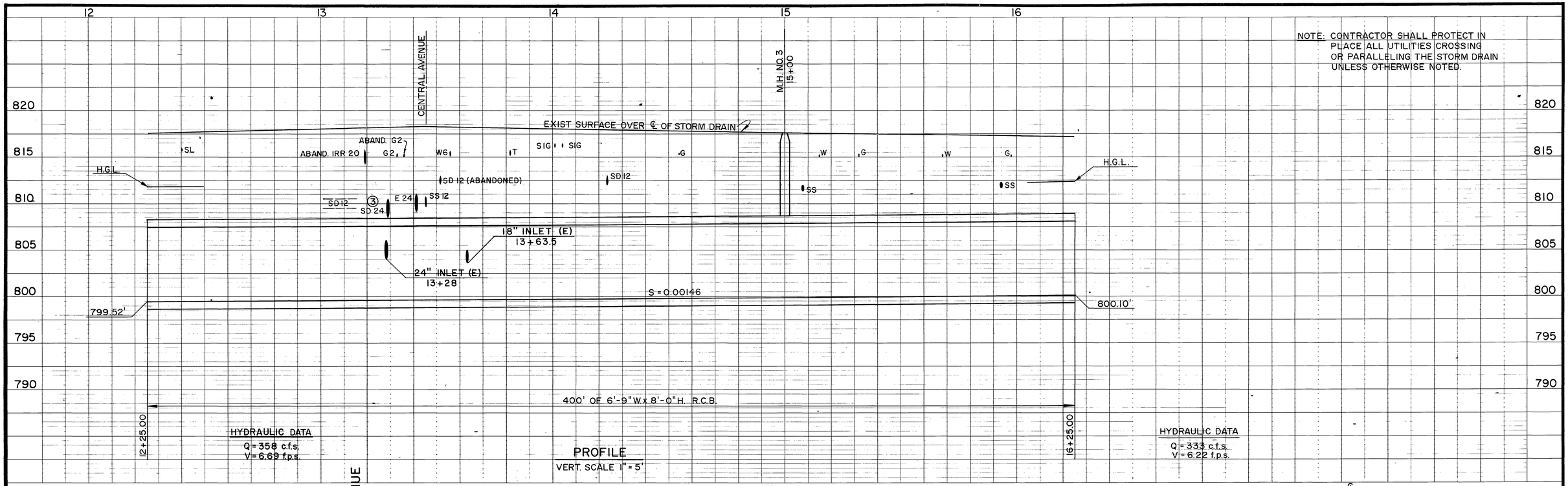
PALM AVENUE LATERAL

STA. 9+75 TO STA. 12+25

1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

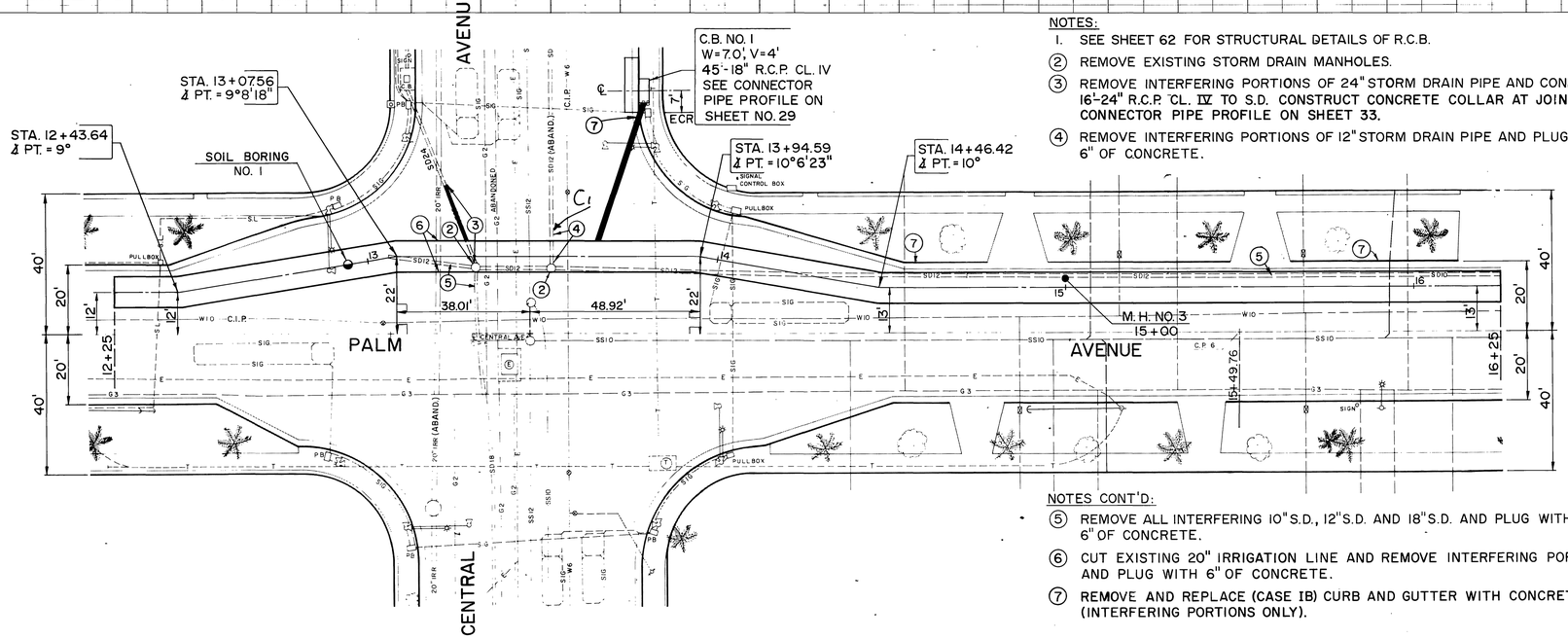
PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 4 OF 67

AS BUILT



NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.

PROFILE
VERT. SCALE 1" = 5'

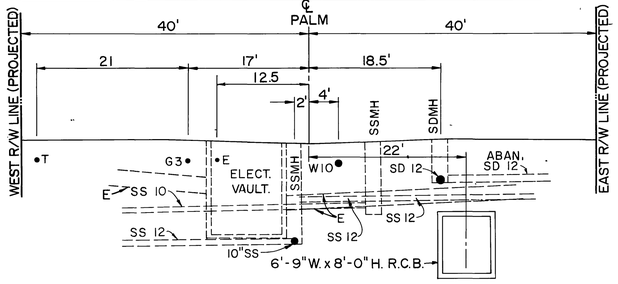


NOTES:

1. SEE SHEET 62 FOR STRUCTURAL DETAILS OF R.C.B.
2. REMOVE EXISTING STORM DRAIN MANHOLES.
3. REMOVE INTERFERING PORTIONS OF 24" STORM DRAIN PIPE AND CONNECT 16'-24" R.C.P. CL. IV TO S.D. CONSTRUCT CONCRETE COLLAR AT JOIN. SEE CONNECTOR PIPE PROFILE ON SHEET 33.
4. REMOVE INTERFERING PORTIONS OF 12" STORM DRAIN PIPE AND PLUG WITH 6" OF CONCRETE.

NOTES CONT'D:

5. REMOVE ALL INTERFERING 10" S.D., 12" S.D. AND 18" S.D. AND PLUG WITH 6" OF CONCRETE.
6. CUT EXISTING 20" IRRIGATION LINE AND REMOVE INTERFERING PORTIONS AND PLUG WITH 6" OF CONCRETE.
7. REMOVE AND REPLACE (CASE IB) CURB AND GUTTER WITH CONCRETE (INTERFERING PORTIONS ONLY).



CROSS SECTION
STA. 13+55.00
SCALE 1" = 10'

D-297

PLAN
1" = 20'
20' 0 20'

BENCH MARK
C.P. NO. 5 - ELEV. = 818.007'
TOP OF NAIL & RIV. CITY TAG FLUSH AT THE INTERSECTION OF PALM & CENTRAL AVE.
C.P. NO. 6 - ELEV. = 817.392'
TOP OF NAIL R.C.F.C. TAG FLUSH IN FRONT OF 6630 PALM.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO
APPROVED BY:
REGISTERED CIVIL ENGINEER NO. 12116
DATE: 7-28-72

REVISIONS

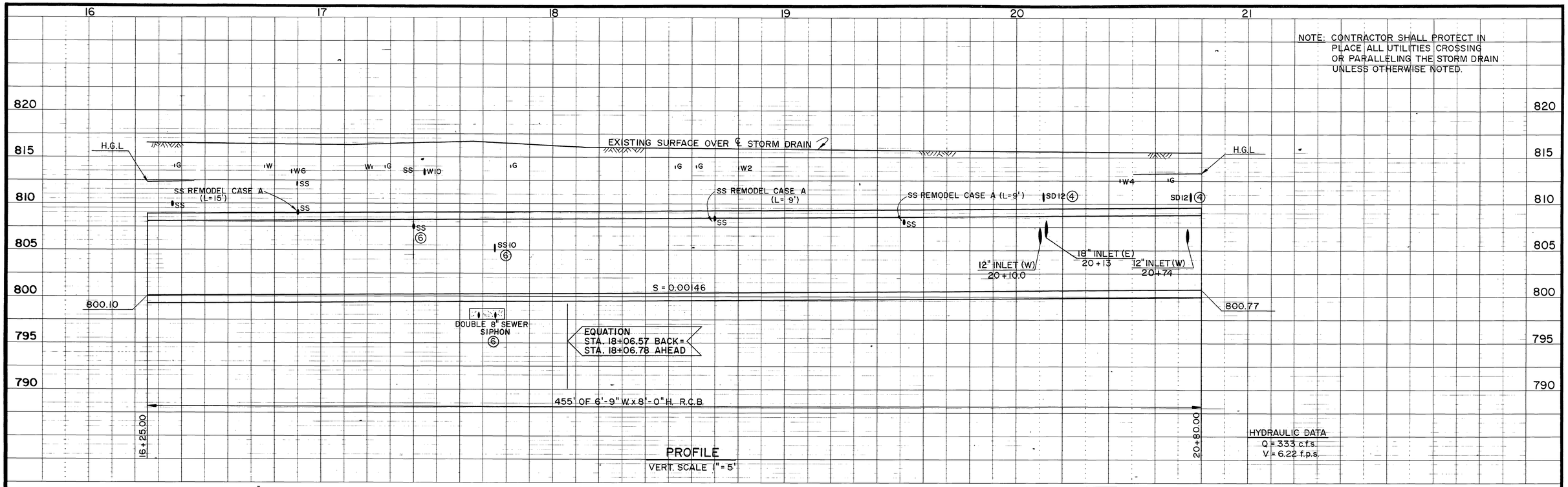
REF.	DESCRIPTION	APPR.	DATE
C1	Tie in 14'-15" Pipe Collar	AM	9/76

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED BY: F. M. O.
DRAWN BY: G. S.
DATE DRAWN: 7-72
CHECKED BY: WY
APPROVED BY:
John W. Bryant
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 12+25 TO STA. 16+25
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 5 OF 67

AS BUILT



NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.

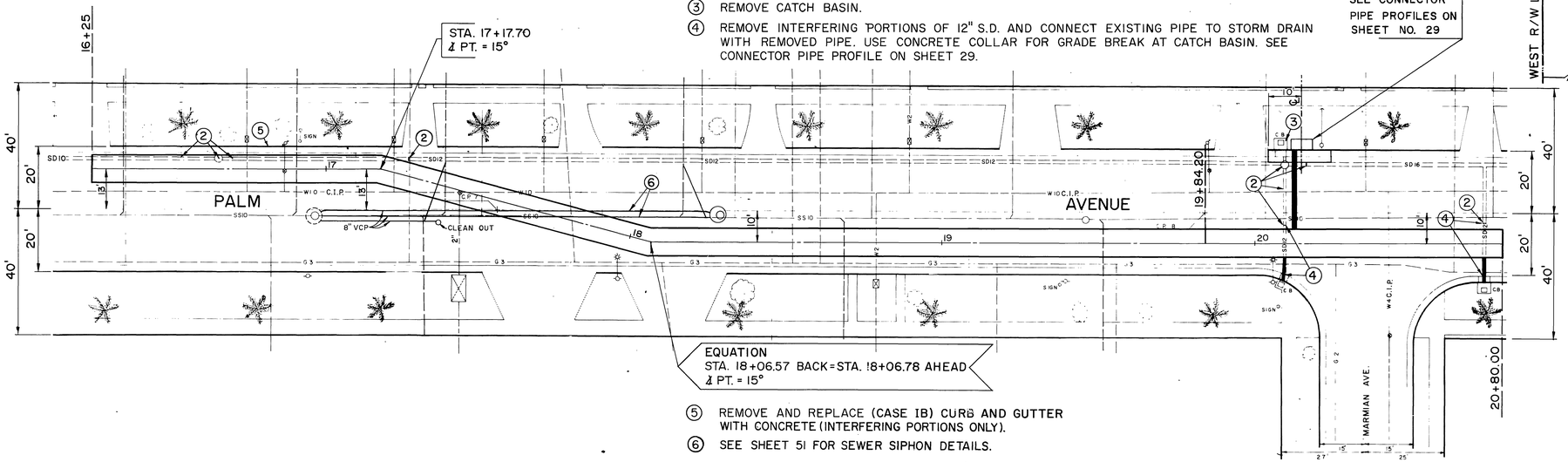
HYDRAULIC DATA
Q = 333 c.f.s.
V = 6.22 f.p.s.

PROFILE
VERT. SCALE 1" = 5'

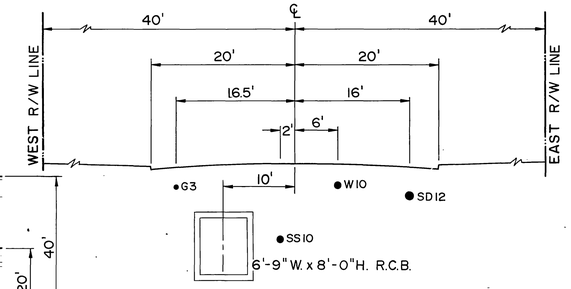
NOTES:

1. SEE SHEET 62 FOR STRUCTURAL DETAILS OF R.C.B.
2. REMOVE INTERFERING PORTIONS OF EXISTING 10", 12" & 16" STORM DRAINS AND MANHOLES AND PLUG WITH 6" CONCRETE.
3. REMOVE CATCH BASIN.
4. REMOVE INTERFERING PORTIONS OF 12" S.D. AND CONNECT EXISTING PIPE TO STORM DRAIN WITH REMOVED PIPE. USE CONCRETE COLLAR FOR GRADE BREAK AT CATCH BASIN. SEE CONNECTOR PIPE PROFILE ON SHEET 29.

C.B. NO. 1 (CASE C L.D.) W=7.0' V=4.0' 29'-18" R.C.P. CL IV SEE CONNECTOR PIPE PROFILES ON SHEET NO. 29



5. REMOVE AND REPLACE (CASE IB) CURB AND GUTTER WITH CONCRETE (INTERFERING PORTIONS ONLY).
6. SEE SHEET 51 FOR SEWER SIPHON DETAILS.



CROSS SECTION
STA. 19+15.00
SCALE 1" = 10'

PLAN
1" = 20'
20' 0 20'

BENCH MARK
C.P. NO. 7 - ELEV. = 816.724'
TOP OF NAIL & R.C.F.C. TAG FLUSH IN FRONT OF 6658 PALM.
C.P. NO. 8 - ELEV. = 815.996'
TOP OF NAIL & R.C.F.C. TAG FLUSH 40 FT. N. OF THE INTERSECTION OF PALM & MARMIAN WAY.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO
APPROVED BY:
DATE: 7-28-72
REGISTERED CIVIL ENGINEER NO. 12116

REVISIONS
No Change
REF. DESCRIPTION APPR. DATE

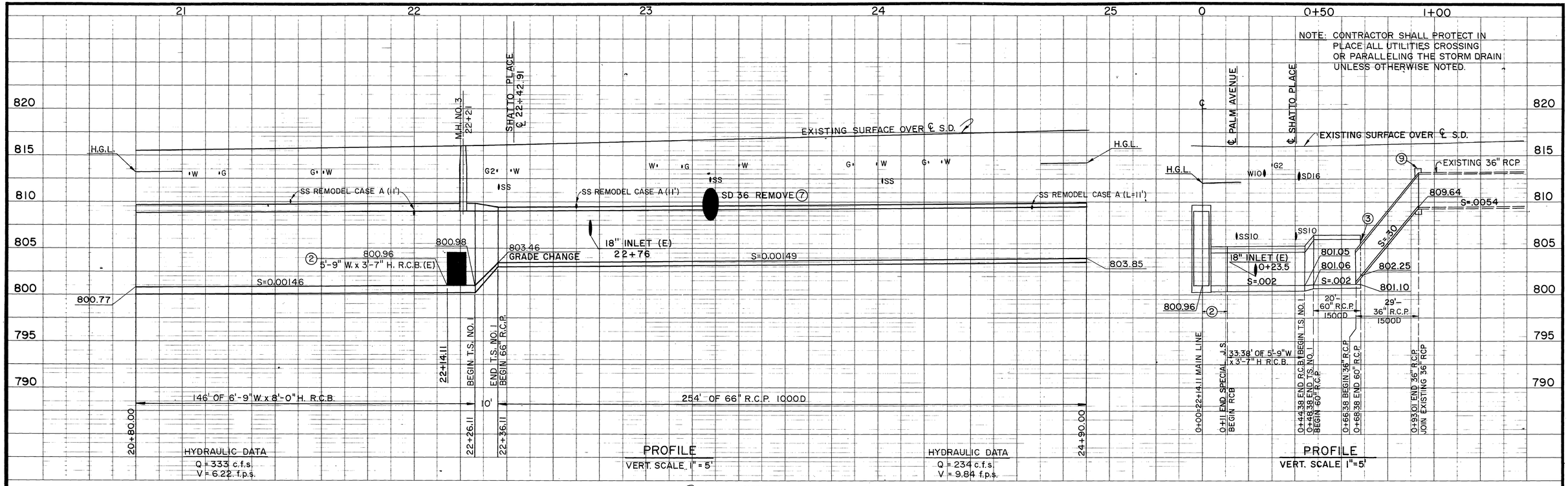
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED BY: F.M.O.
DRAWN BY: L.H.P.
DATE DRAWN: 7-72
CHECKED BY: [illegible]
APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

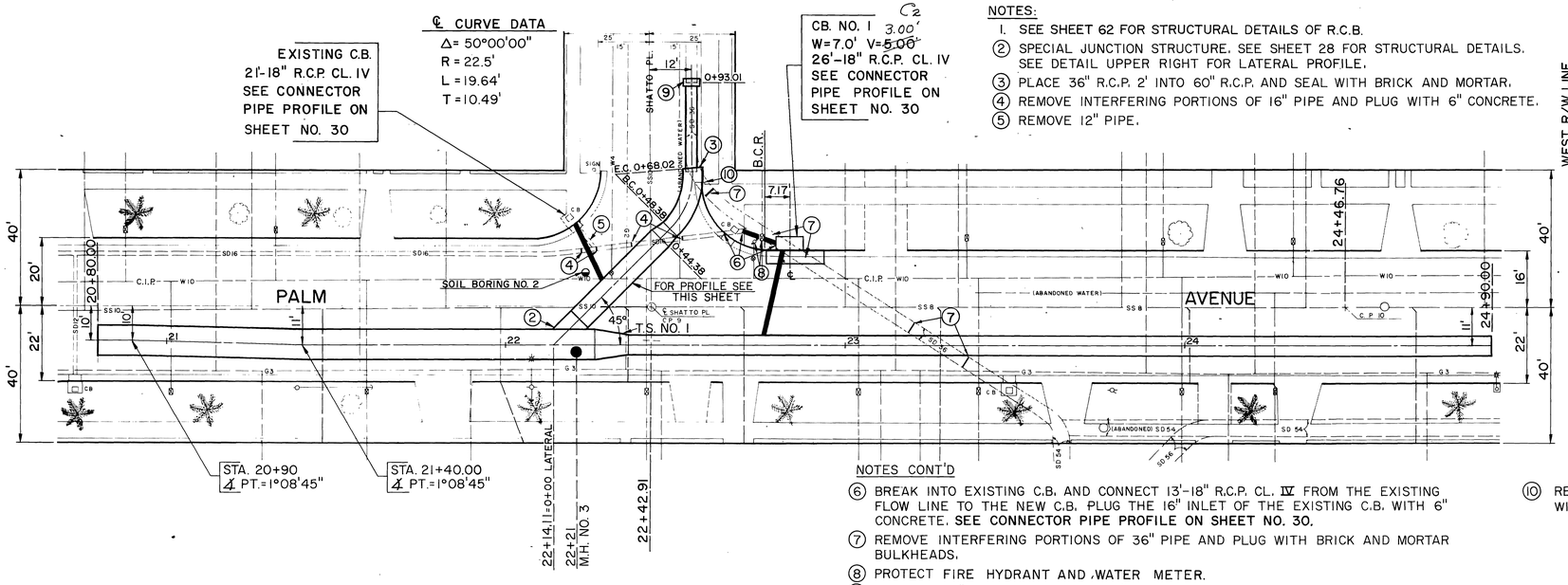
MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 16+25 TO STA. 20+80
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 6 OF 67

D297

AS BUILT



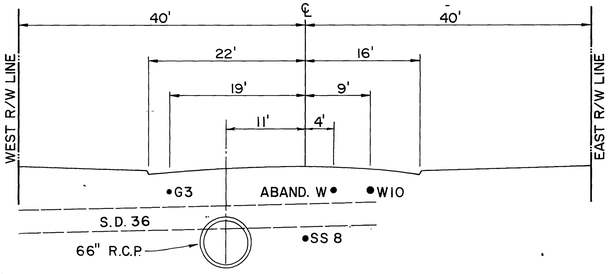


NOTES:

1. SEE SHEET 62 FOR STRUCTURAL DETAILS OF R.C.B.
2. SPECIAL JUNCTION STRUCTURE. SEE SHEET 28 FOR STRUCTURAL DETAILS. SEE DETAIL UPPER RIGHT FOR LATERAL PROFILE.
3. PLACE 36" R.C.P. 2' INTO 60" R.C.P. AND SEAL WITH BRICK AND MORTAR.
4. REMOVE INTERFERING PORTIONS OF 16" PIPE AND PLUG WITH 6" CONCRETE.
5. REMOVE 12" PIPE.

NOTES CONT'D

6. BREAK INTO EXISTING C.B. AND CONNECT 13'-18" R.C.P. CL. IV FROM THE EXISTING FLOW LINE TO THE NEW C.B. PLUG THE 16" INLET OF THE EXISTING C.B. WITH 6" CONCRETE. **SEE CONNECTOR PIPE PROFILE ON SHEET NO. 30.**
7. REMOVE INTERFERING PORTIONS OF 36" PIPE AND PLUG WITH BRICK AND MORTAR BULKHEADS.
8. PROTECT FIRE HYDRANT AND WATER METER.
9. CONNECT 36" R.C.P. TO EXISTING 36" R.C.P. WITH A CONCRETE COLLAR.
10. REMOVE AND REPLACE (CASE IB) CURB AND GUTTER WITH CONCRETE (INTERFERING PORTIONS ONLY).



CROSS SECTION
STA. 23+44.00
SCALE 1"=10'

PLAN
1"=20'
20' 0 20'

BENCH MARK
C.P. NO. 9 - ELEV. = 816.688'
X CUT IN N. RIM OF SS-MH AT PALM & SHATTO.
C.P. NO. 10 - ELEV. = 817.577'
SET NAIL & R.C.F.C. TAG FLUSH IN FRONT OF 6762 PALM.
Dr. F.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO
APPROVED BY:
REGISTERED CIVIL ENGINEER NO. 12116
DATE: 7-28-72

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
C2	Size Changed as shown	H.M.	9/26

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED BY: F.M.A.
DRAWN BY: S.E.
DATE DRAWN: 7-72
CHECKED BY: MW
APPROVED BY: John K. Bryant
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

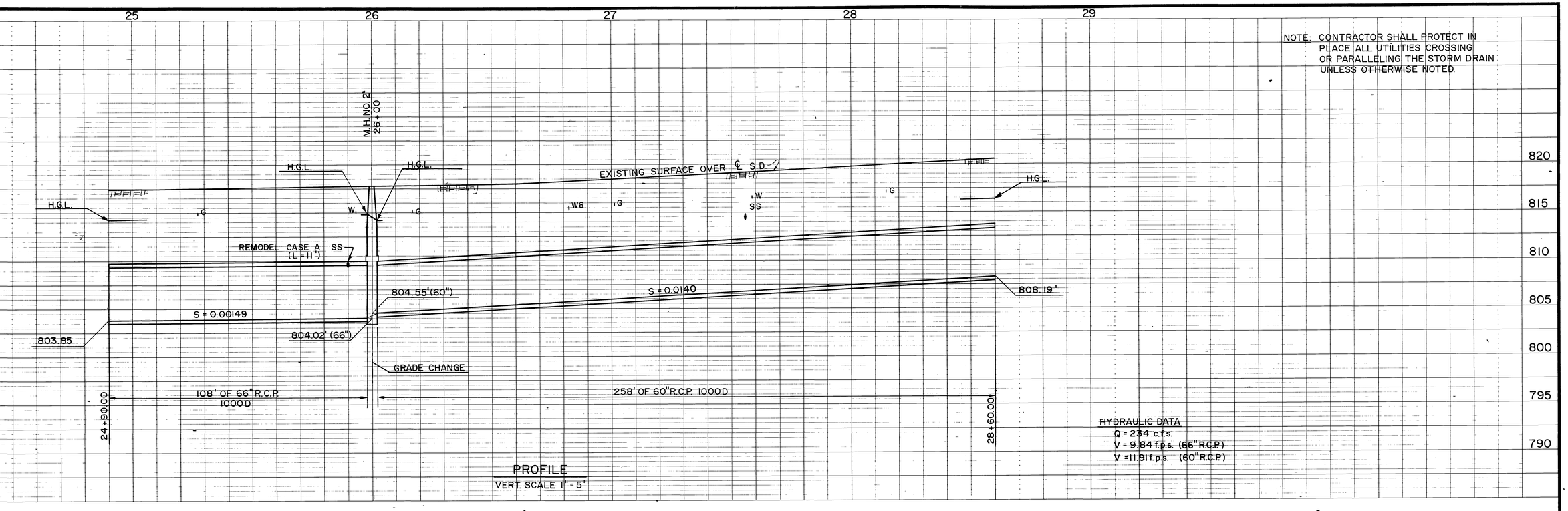
MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 20+80 TO STA. 24+90
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 7 OF 67

D297

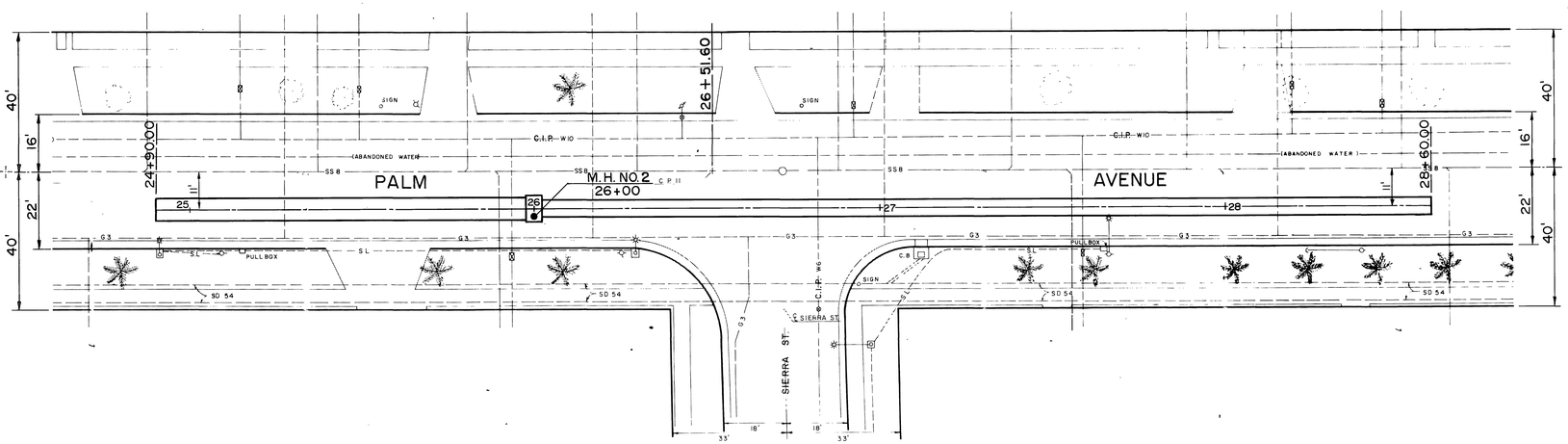
AS BUILT

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.

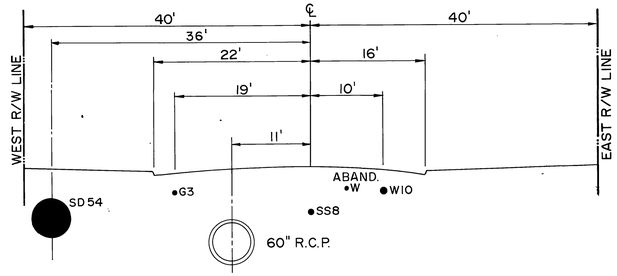


PROFILE
VERT. SCALE 1"=5'

HYDRAULIC DATA
Q = 234 c.f.s.
V = 9.84 f.p.s. (66"R.C.P.)
V = 11.91 f.p.s. (60"R.C.P.)



PLAN
1"=20'
20' 0 20'



CROSS SECTION
STA. 28+00.00
SCALE 1"=10'

D297

BENCH MARK
C.P. NO. II - ELEV. 818.342'
SET NAIL & R.C.F.C. TAG FLUSH 15' N. OF PALM & SIERRA ST.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO

APPROVED BY:
REGISTERED CIVIL ENGINEER NO. 12116
DATE: 7-28-72

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
	No Change		

AS BUILT

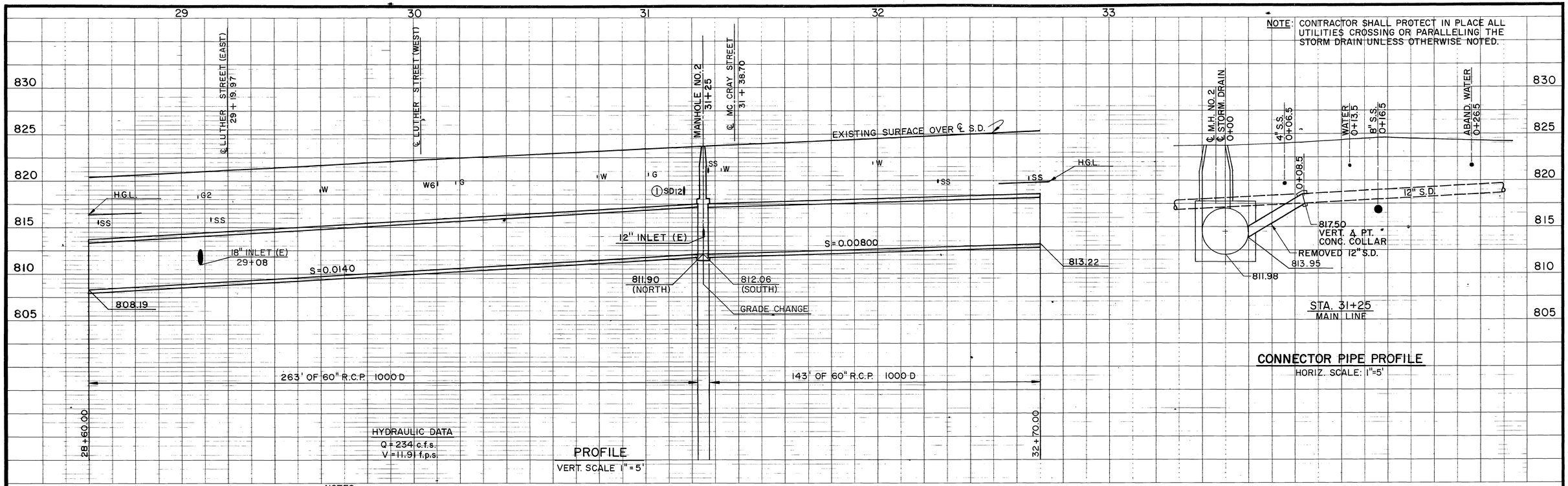
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: F.M.O.
DRAWN BY: L.B.C.
DATE DRAWN: 7-72
CHECKED BY: W.W.

APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 24+90 TO STA. 28+60
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

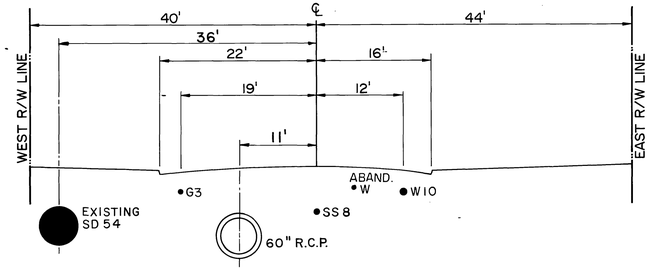
PROJECT NO. 1-0.191
DRAWING NO. 1-281
SHEET NO. 8 OF 67



NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.

NOTES:

1. REMOVE INTERFERING PORTIONS OF 12" STORM DRAIN PIPE AND CONNECT EXISTING 12" LINE TO MANHOLE NO. 2 WITH THE REMOVED PIPE. CONSTRUCT CONCRETE COLLAR AT JOIN. SEE PROFILE ON THIS SHEET.
2. PLUG WITH 6" OF CONCRETE.
3. REMOVE AND REPLACE CROSS GUTTER WITH CONCRETE (INTERFERING PORTIONS ONLY).
4. REMOVE AND REPLACE (CASE IB) CURB AND GUTTER WITH CONCRETE (INTERFERING PORTIONS ONLY).



CROSS SECTION
STA. 32+00.00
SCALE 1"=10'

PLAN
1"=20'

BENCH MARK
C.P. NO. 12 - ELEV. = 821.780'
X ON N. RIM OF SS-MH AT PALM & LUTHER.
C.P. NO. 13 - ELEV. = 824.446'
X ON N. RIM OF SS-MH AT PALM & McCRAY.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO

APPROVED BY:
REGISTERED CIVIL ENGINEER NO. 12116
DATE: 7-28-72

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: F.M.O.
DRAWN BY: G. Sisk
DATE DRAWN: 7-72
CHECKED BY: WK

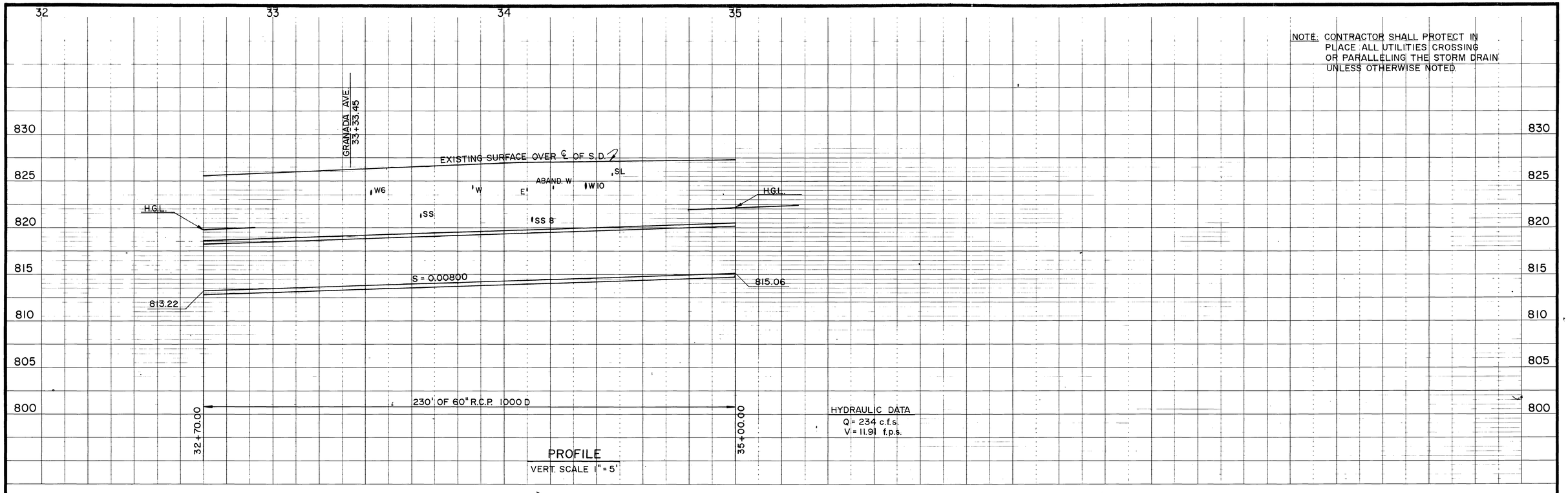
APPROVED BY:
John W. Bryant
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 28+60 TO STA. 32+70
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 9 OF 67

D297

AS BUILT



BENCH MARK
C.P. 14 - ELEV. = 826.411'; SET NAIL AND R.C.F.C. TAG FLUSH, 10 FT. S. OF PALM & GRANADA AVENUE.
C.P. 15 - ELEV. = 829.209'; TOP OF 2" x 2" HUB, 0.4' DOWN AT PALM & EXTENSION OF TIBBETTS.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO

APPROVED BY:
REGISTERED CIVIL ENGINEER NO. 12116
DATE: 7-28-72

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

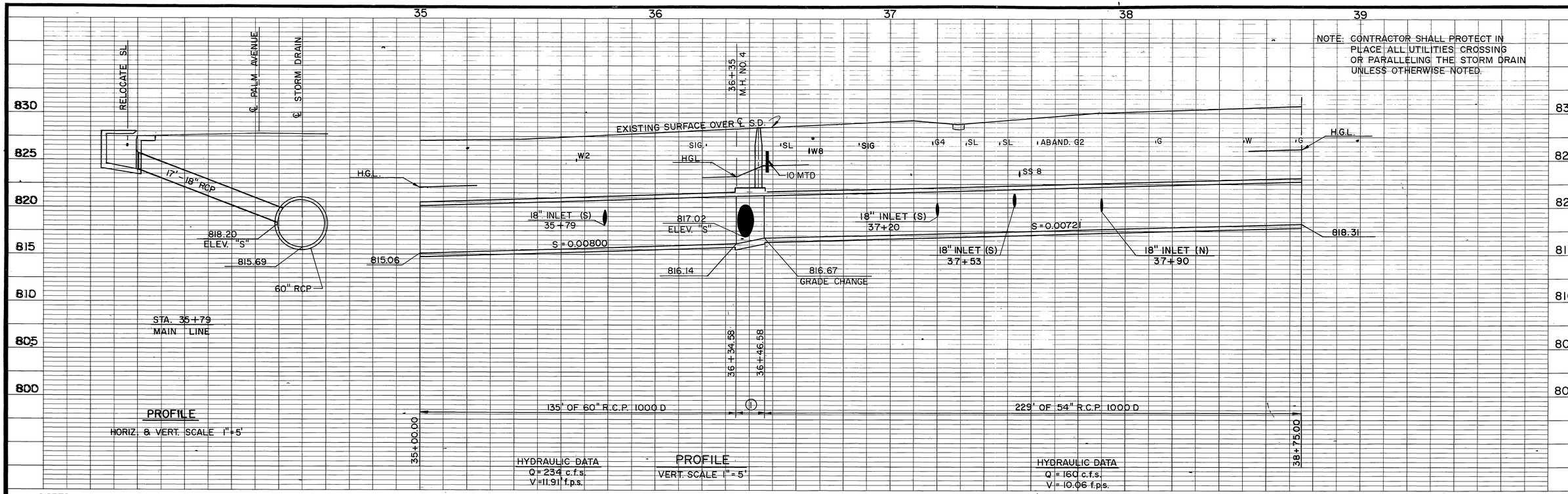
DESIGNED BY: T. M. O.
DRAWN BY: L. J. P.
DATE DRAWN: 7-72
CHECKED BY: WY

APPROVED BY:
John W. Bryant
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 32+70 TO STA. 35+00
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 10 OF 67

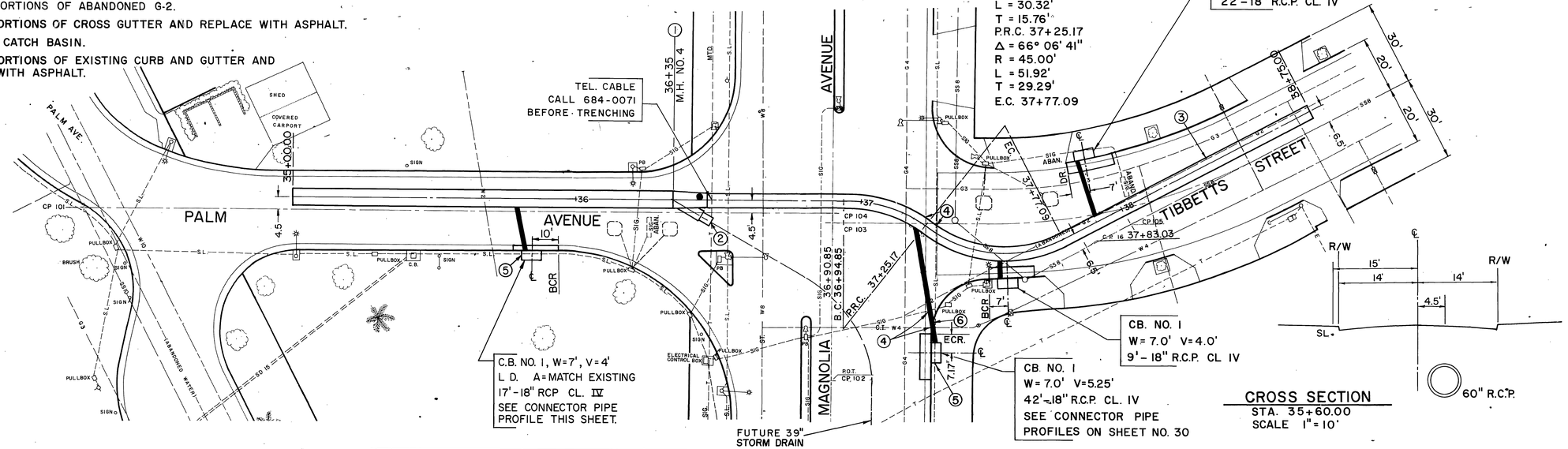
AS BUILT



NOTES:

1. MANHOLE NO. 4 A=30°, B=39", C=11'-0", D_1=54", D_2=60", E=12'-0", L=12'-10", ELEV."R"=817.13', ELEV."S"=817.02'.
2. INSTALL 4' STUB OF 39" RCP 1500D & PLUG EXPOSED END WITH BRICK & MORTAR. ELEVATION AT THE END OF STUB=817.18'.
3. REMOVE INTERFERING PORTIONS OF ABANDONED G-2.
4. REMOVE INTERFERING PORTIONS OF CROSS GUTTER AND REPLACE WITH ASPHALT.
5. RELOCATE S.L. AROUND CATCH BASIN.
6. REMOVE INTERFERING PORTIONS OF EXISTING CURB AND GUTTER AND REPLACE PER CASE 1B WITH ASPHALT.

℄ REVERSE CURVE DATA
B.C. 36+94.85
Δ = 38° 36' 06"
R = 45.00'
L = 30.32'
T = 15.76'
P.R.C. 37+25.17
Δ = 66° 06' 41"
R = 45.00'
L = 51.92'
T = 29.29'
E.C. 37+77.09



CROSS SECTION
STA. 35+60.00
SCALE 1"=10'

PLAN
1"=20'
20' 0 20'

BENCH MARK
C.P. NO. 16 - ELEV. = 830.071
SET NAIL & R.C.F.C. TAG ON TRUE CENTERLINE OF TIBBITTS 75' E. OF L MAGNOLIA 5 FT. FROM S CURVE.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO
APPROVED BY:
DATE: 7-28-72
REGISTERED CIVIL ENGINEER NO. 12116

REVISIONS
No Change
REF. DESCRIPTION APPR. DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED BY: E.M.C.
DRAWN BY: R.D.B.
DATE DRAWN: 7-72
CHECKED BY:
APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

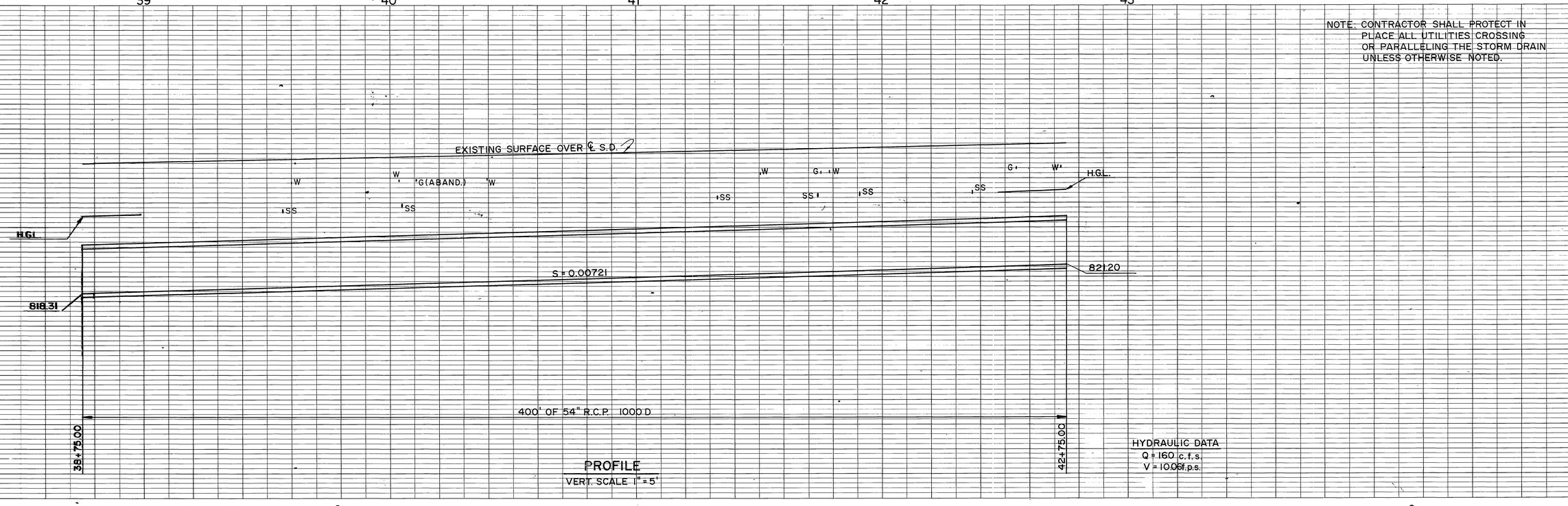
MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 35+00 TO STA. 38+75
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 11 OF 67

D 297 01

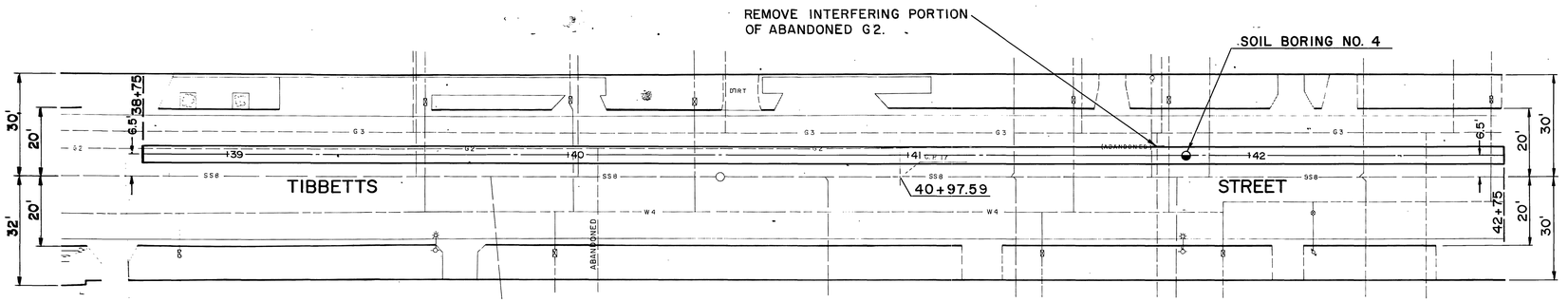
AS BUILT

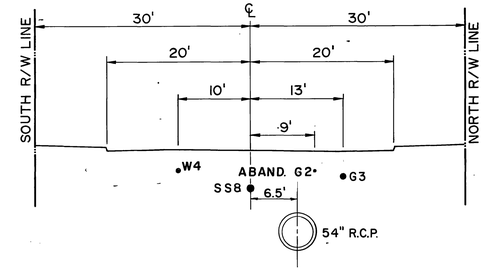
NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.



PROFILE
VERT. SCALE 1" = 5'

HYDRAULIC DATA
Q = 160 c.f.s.
V = 10.06 f.p.s.





CROSS SECTION
STA. 41+15.03
SCALE 1" = 10'

D297

PLAN
1" = 20'
20' 0 20'

BENCH MARK
C.P. NO. 17 - ELEV. = 832.805'
SET NAIL & R.C.F.C. TAG IN FRONT OF PAVED PARKING LOT N. SIDE OF TIBBETTS.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO
APPROVED BY:
DATE: 7-28-72
REGISTERED CIVIL ENGINEER NO. 12176

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		

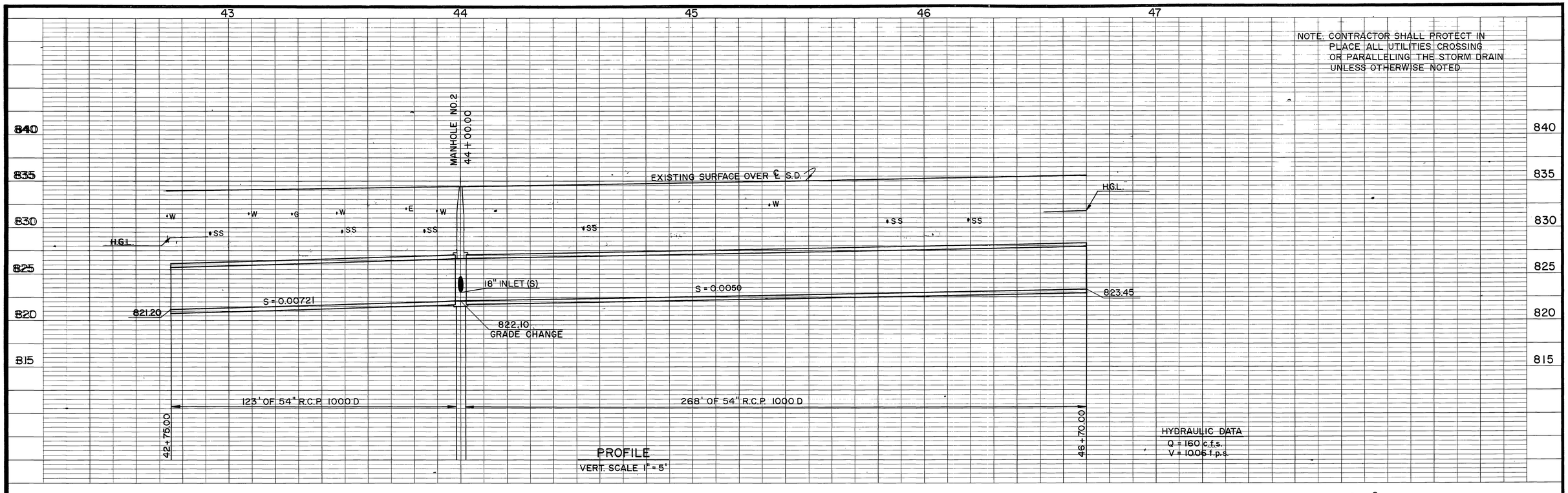
AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED BY: F.W.O.
DRAWN BY: G.S.
DATE DRAWN: 7-72
CHECKED BY: MW
APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA-CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 38 + 75 TO STA. 42 + 75
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

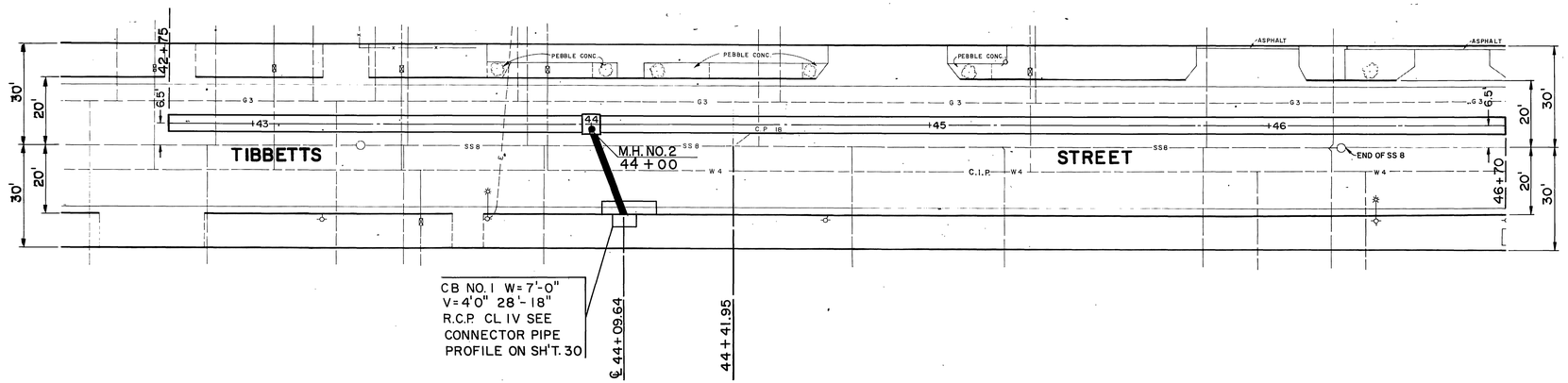
PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 12 OF 67

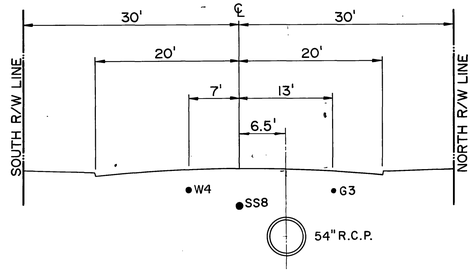
NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.



PROFILE
VERT. SCALE 1" = 5'

HYDRAULIC DATA
Q = 160 c.f.s.
V = 10.06 f.p.s.





CROSS SECTION
STA. 45+50.00
SCALE 1" = 10'

PLAN
1" = 20'
20' 0 20'

BENCH MARK
C.P. NO. 18 - ELEV. = 834.739
SET NAIL & R.C.F.C. TAG IN FRONT OF 3731 TIBBETTS.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO

APPROVED BY:
DATE: 7-28-72
REGISTERED CIVIL ENGINEER NO. 12116

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: F.H.O.
DRAWN BY: L.P.C.
DATE DRAWN: 7-72
CHECKED BY: WHY

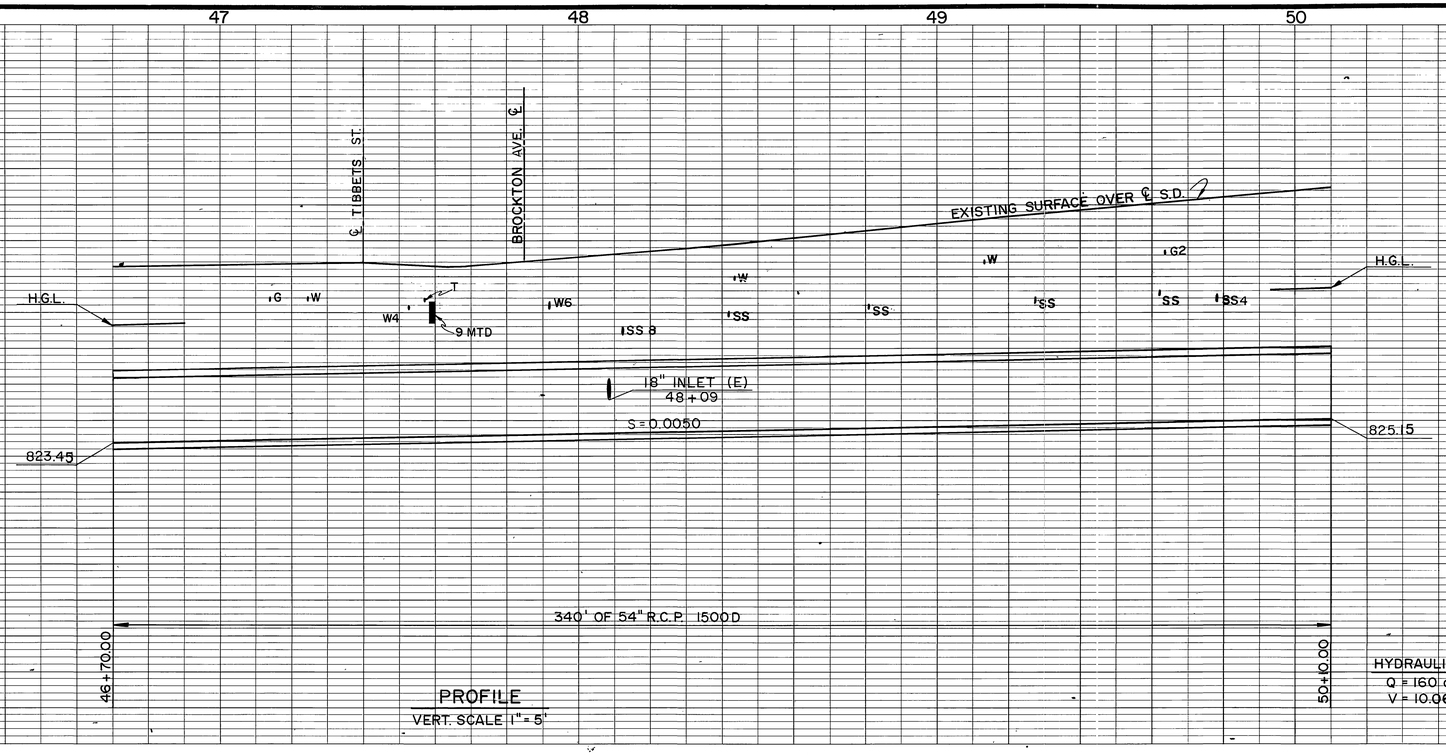
APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 42+75 TO STA. 46+70
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 13 OF 67

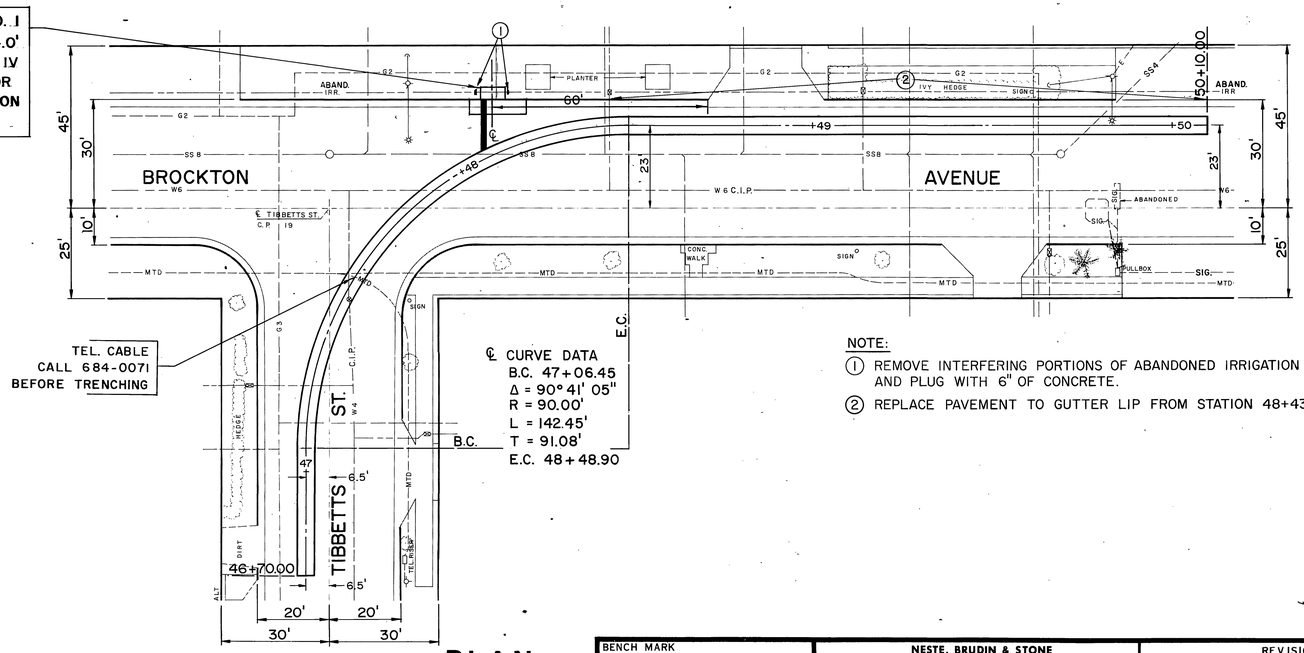
D297

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.

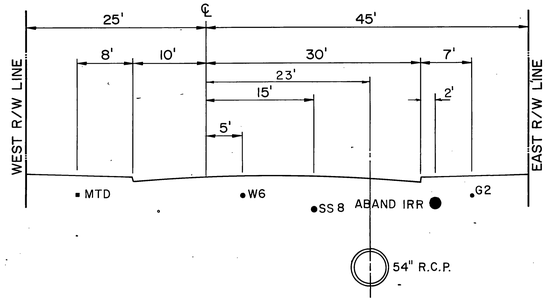


PROFILE
VERT. SCALE 1" = 5'

CB NO. 1
W = 7.0' V = 4.0'
15"-18" RCP CL. IV
SEE CONNECTOR PIPE PROFILE ON SHEET NO. 30



PLAN
1" = 20'
20' 0 20'



CROSS SECTION
STA. 49+25.00
SCALE 1" = 10'

NOTE:
1. REMOVE INTERFERING PORTIONS OF ABANDONED IRRIGATION LINE AND PLUG WITH 6" OF CONCRETE.
2. REPLACE PAVEMENT TO GUTTER LIP FROM STATION 48+43 TO 50+10.

HYDRAULIC DATA
Q = 160 c.f.s.
V = 10.06 f.p.s.

BENCH MARK
C.P. NO. 19 - ELEV. = 836.187'
TOP OF TWO INCH IRON PIPE AT TIBBETTS & BROCKTON FLUSH.

SCALE:

DATE:

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO

APPROVED BY:

DATE: 7-28-72

REGISTERED CIVIL ENGINEER NO. 12116

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: J.M.O.
DRAWN BY: B.S.
DATE DRAWN: 7-72
CHECKED BY:

APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN

PALM AVENUE LATERAL

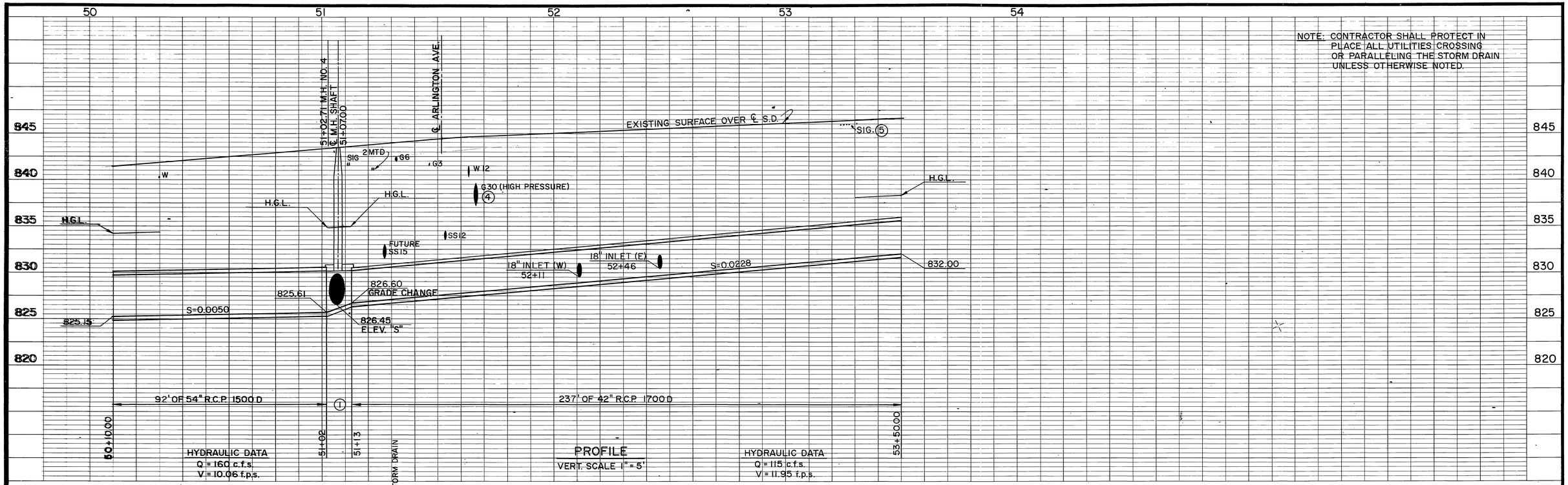
STA. 46+70 TO STA. 50+10

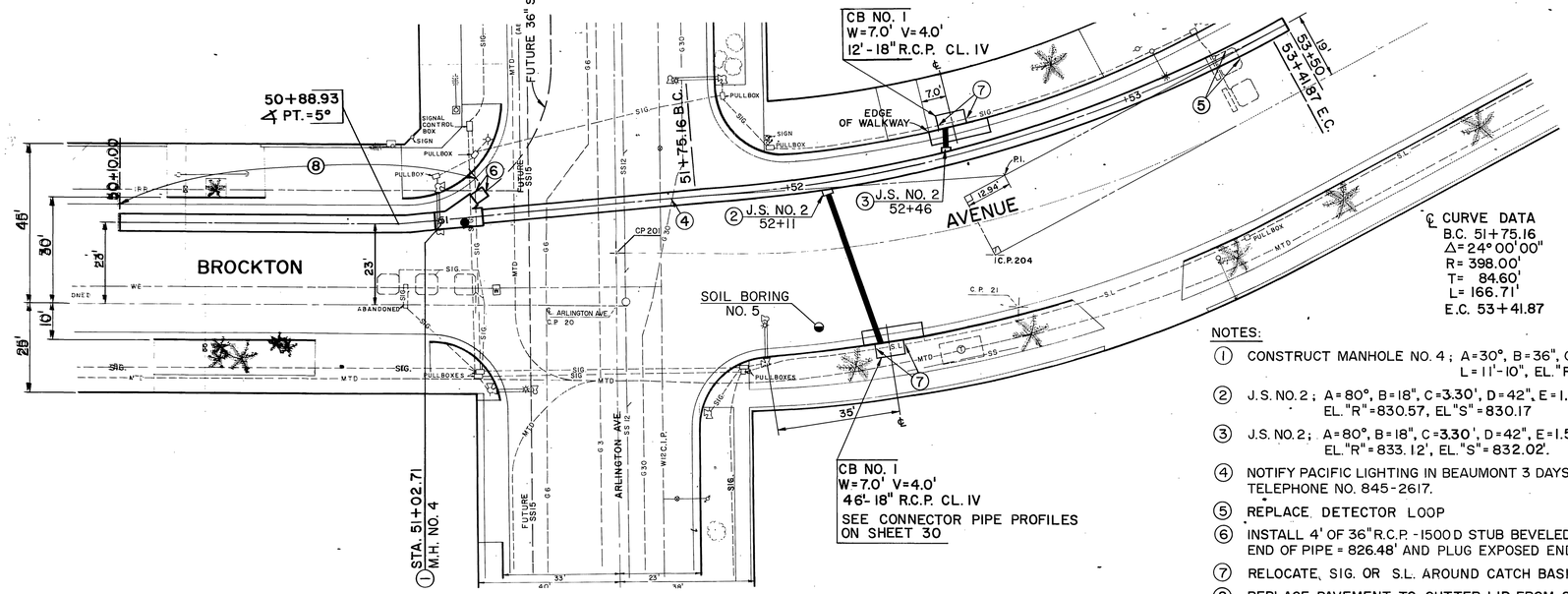
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

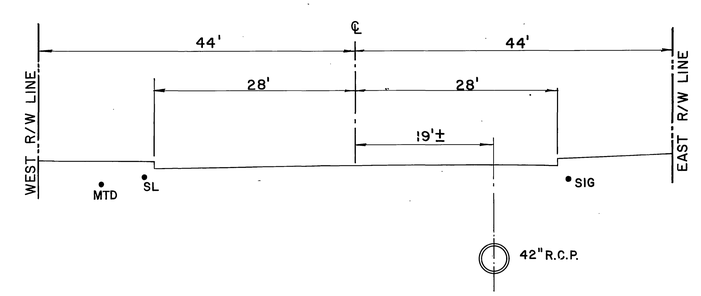
PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 14 OF 67

D 297

AS BUILT







CROSS SECTION
STA. 52+00.00
SCALE 1"=10'

℄ CURVE DATA
B.C. 51+75.16
Δ = 24° 00' 00"
R = 398.00'
T = 84.60'
L = 166.71'
E.C. 53+41.87

NOTES:

1. CONSTRUCT MANHOLE NO. 4 ; A=30°, B=36", C=9'-9", D_1=42", D_2=54", E=10'-9" L=11'-10", EL. "R" = 826.47', EL. "S" = 826.45'.
2. J.S. NO. 2 ; A=80°, B=18", C=3.30', D=42", E=1.50', F=1.50', G=1.50', L=2.25' EL. "R" = 830.57, EL. "S" = 830.17
3. J.S. NO. 2 ; A=80°, B=18", C=3.30', D=42", E=1.50', F=0.30', G=1.70', L=2.25' EL. "R" = 833.12', EL. "S" = 832.02'.
4. NOTIFY PACIFIC LIGHTING IN BEAUMONT 3 DAYS PRIOR TO EXCAVATION. TELEPHONE NO. 845-2617.
5. REPLACE DETECTOR LOOP
6. INSTALL 4' OF 36" R.C.P. -1500D STUB BEVELED 5° UPSTREAM END, ELEV. AT END OF PIPE = 826.48' AND PLUG EXPOSED END WITH BRICK AND MORTAR.
7. RELOCATE, SIG. OR S.L. AROUND CATCH BASIN.
8. REPLACE PAVEMENT TO GUTTER LIP FROM STATION 50+10 TO 51+14.

D 297

PLAN
1" = 20'
20' 0 20'

BENCH MARK
C.P. NO. 20 - ELEV. = 843.674'
TOP OF TWO INCH I.P. IN WELL MONUMENT DOWN 0.76' AT INTERSECTION OF BROCKTON & ARLINGTON.
C.P. NO. 21 - ELEV. = 845.216'
SET NAIL & R.C.F.C. TAG ON EXTENSION OF BROCKTON 3 FT. FROM W. CURB.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO
APPROVED BY:
DATE: 7-28-72
REGISTERED CIVIL ENGINEER NO. 12116

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		

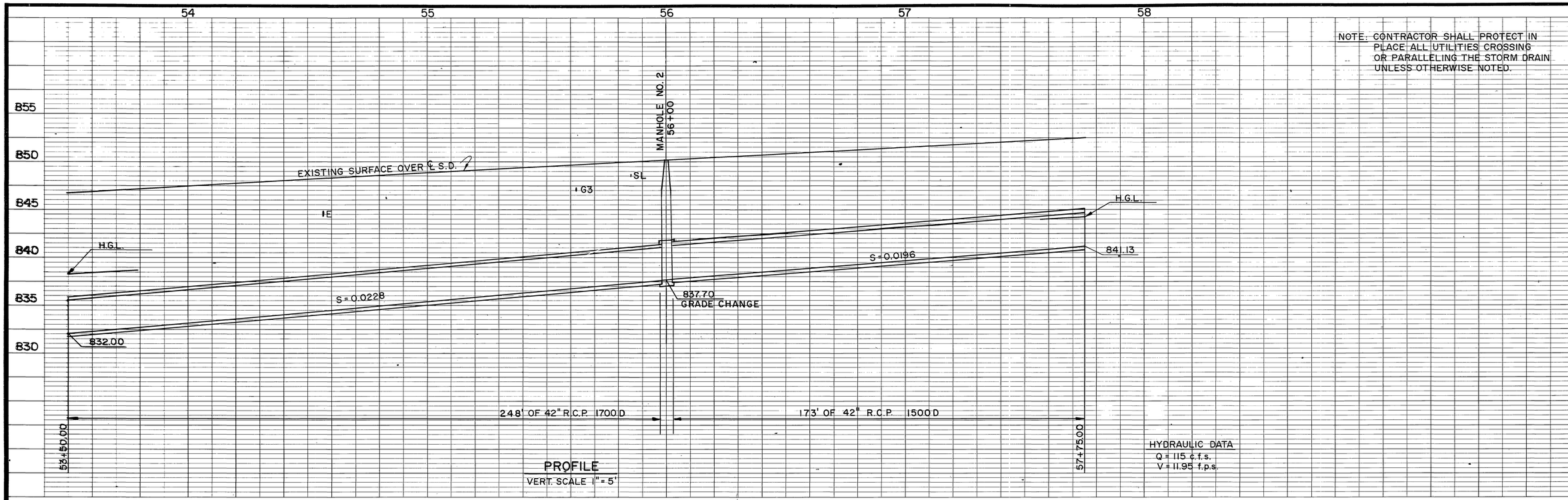
AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED BY: T.M.O
DRAWN BY: A.S.
DATE DRAWN: 7-72
CHECKED BY:
APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 50+10 TO STA. 53+50
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 15 OF 67

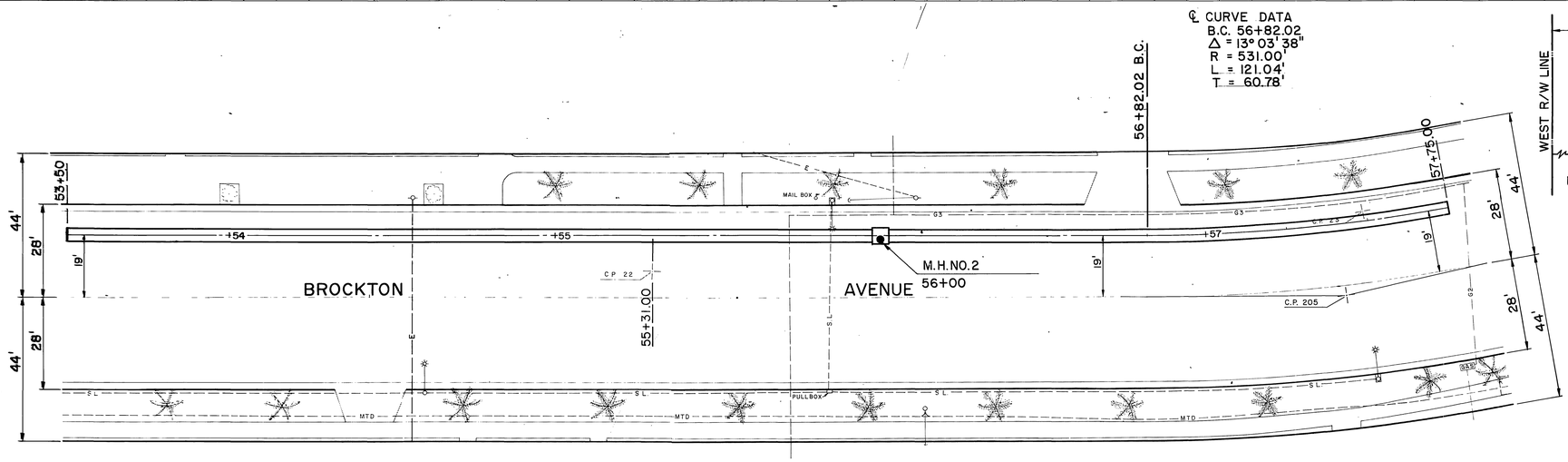
NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.

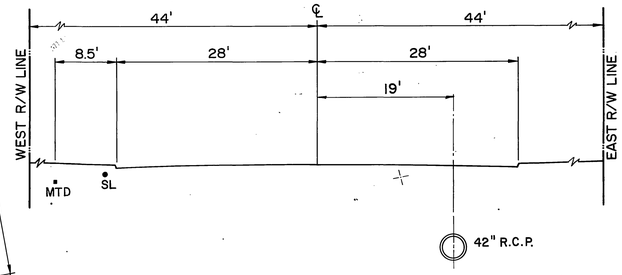


PROFILE
VERT. SCALE 1"=5'

HYDRAULIC DATA
Q = 115 c.f.s.
V = 11.95 f.p.s.

℄ CURVE DATA
B.C. 56+82.02
Δ = 13° 03' 38"
R = 531.00'
L = 121.04'
T = 60.78'





CROSS SECTION
STA. 55+00.00
SCALE 1"=10'

PLAN
1"=20'
20' 0 20'

BENCH MARK
C.P. NO. 22 - ELEV.= 849.497'
SET NAIL & R.C.F.C. CAP OPPOSITE CHURCH ON BROCKTON.
C.P. NO. 23 - ELEV.= 852.629'
SET NAIL & R.C.F.C. TAG OPPOSITE ENTRANCE ND HS 4 FT. FROM E. CURB.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO

APPROVED BY:
REGISTERED CIVIL ENGINEER NO. 12116
DATE: 7-28-72

REVISIONS			
REF.	No Change		
	DESCRIPTION	APPR.	DATE

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: F.M.O
DRAWN BY: B.S.
DATE DRAWN: 7-72
CHECKED BY: [illegible]

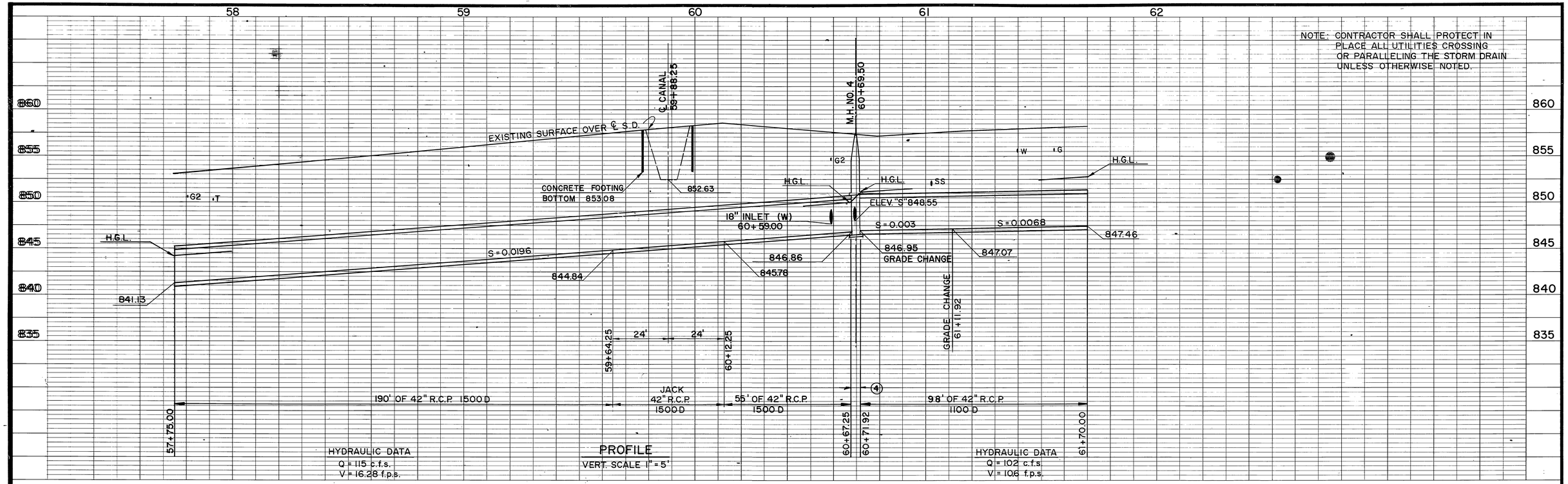
APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 53+50 TO STA. 57+75
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 16 OF 67

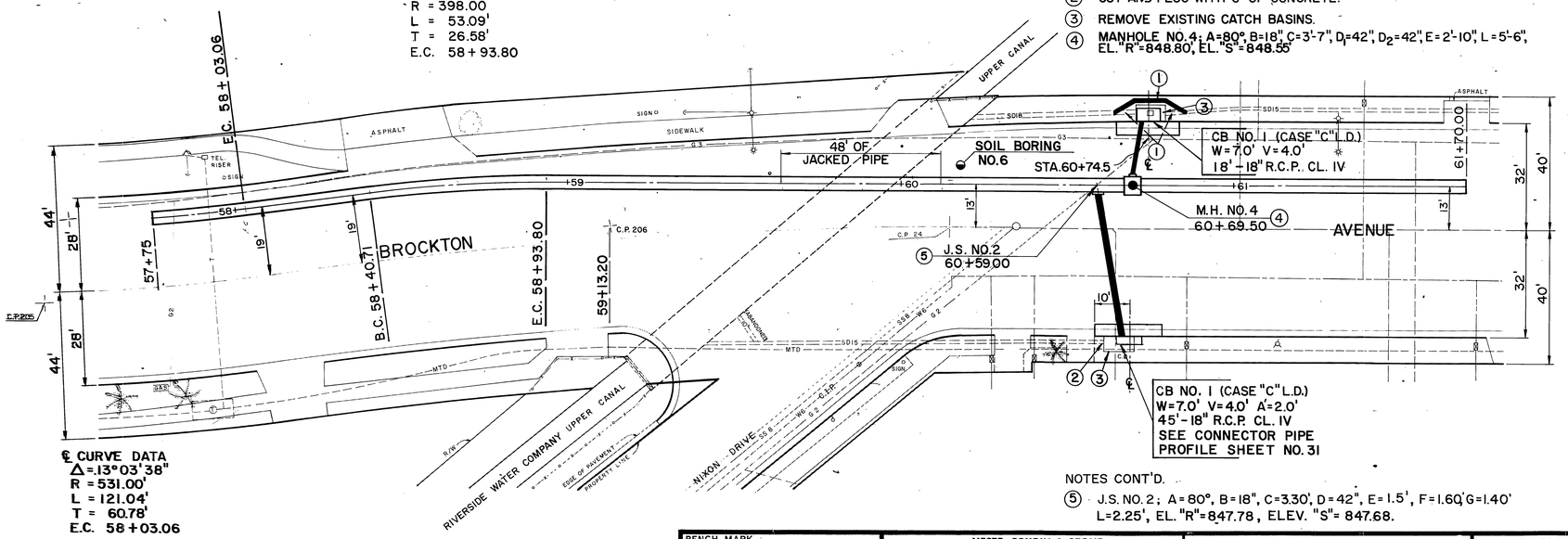
D297

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.



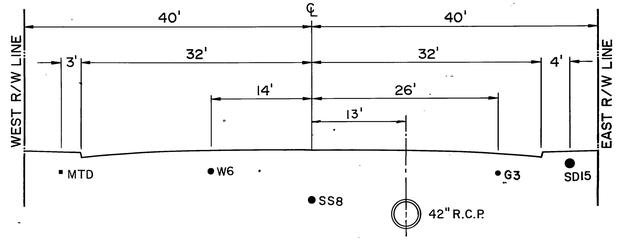
℄ CURVE DATA
B.C. 58+40.71
△ = 7°38'30"
R = 398.00
L = 53.09'
T = 26.58'
E.C. 58+93.80

NOTES:
1. REMOVE INTERFERING PORTIONS OF 15" & 18" S.D. AND CONSTRUCT 22'-15" R.C.P. CL. IV, AROUND C.B. NO.1. MAKE PIPE BENDS AND PIPE JOINS WITH CONCRETE COLLARS.
2. CUT AND PLUG WITH 6" OF CONCRETE.
3. REMOVE EXISTING CATCH BASINS.
4. MANHOLE NO. 4; A=80°, B=18", C=3'-7", D_1=42", D_2=42", E=2'-10", L=5'-6", EL. "R"=848.80, EL. "S"=848.55



℄ CURVE DATA
△ = 13°03'38"
R = 531.00'
L = 121.04'
T = 60.78'
E.C. 58+03.06

NOTES CONT'D.
5. J.S. NO. 2; A=80°, B=18", C=3.30', D=42", E=1.5', F=1.60', G=1.40' L=2.25', EL. "R"=847.78, ELEV. "S"=847.68.



CROSS SECTION
STA. 61+00.00
SCALE 1"=10'

PLAN
1"=20'
20' 0 20'

BENCH MARK
C.P. NO. 24 - ELEV. = 858.770'
TOP OF STEEL ROD AT BROCKTON & NIXON, DOWN 0.15'

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO

APPROVED BY:
DATE: 7-28-72
REGISTERED CIVIL ENGINEER NO. 12116

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: [illegible]
DRAWN BY: [illegible]
DATE DRAWN: 7-72
CHECKED BY: [illegible]

APPROVED BY:
John N. Bryant
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

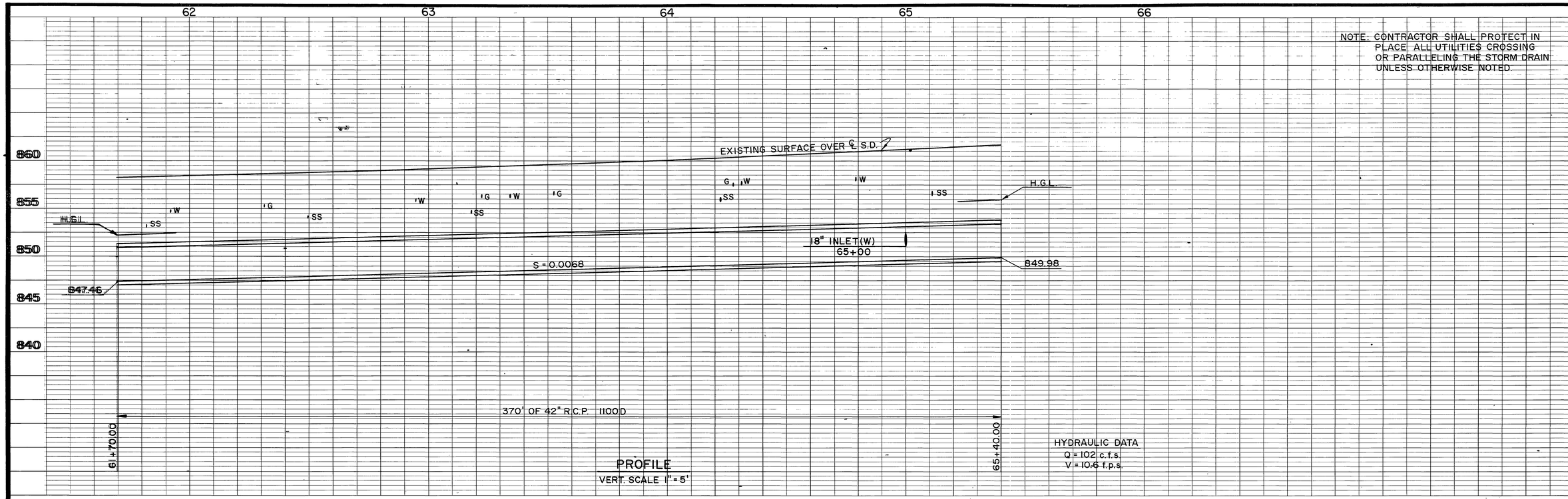
MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 57+75 TO STA. 61+70
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 17 OF 67

D297

AS BUILT

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.



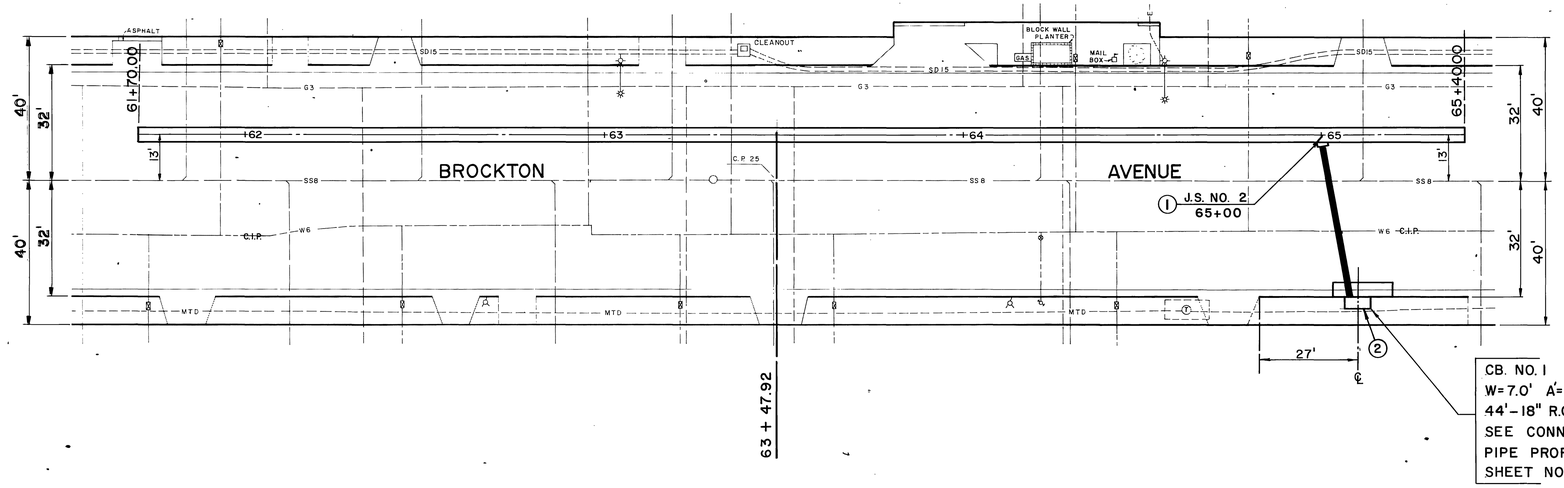
PROFILE
VERT. SCALE 1" = 5'

HYDRAULIC DATA
Q = 102 c.f.s.
V = 10.6 f.p.s.

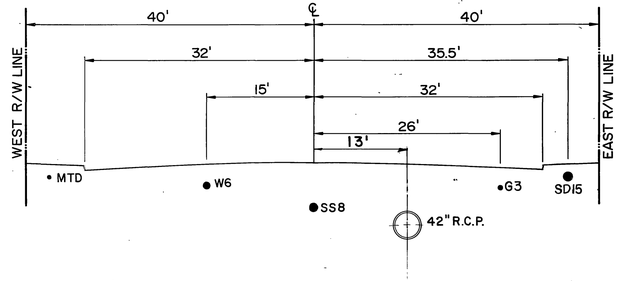
NOTES:

① J.S. NO. 2; A=80°, B=18", C=3.3' , D=42", E=1.50', F=1.60', G=1.60', L=2.25
ELEV. "R"= 851.29, ELEV. "S"= 851.17.

② PROTECT TELEPHONE CABLE.



CB. NO. 1
W=7.0' A'=2.17' V=4.0'
44'-18" R.C.P. CL IV
SEE CONNECTOR PIPE PROFILE ON SHEET NO. 31



CROSS SECTION
STA. 63+42.00
SCALE 1"=10'

PLAN
1"=20'
20' 0 20'

BENCH MARK
C.P. NO. 25 - ELEV. = 859.854'
SET NAIL & R.C.F.C. TAG IN FRONT OF 7145 BROCKTON.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO
APPROVED BY:
DATE: 7-28-72
REGISTERED CIVIL ENGINEER NO. 12116

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
	No Change		

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED BY: M.D.
DRAWN BY: L.R.C.
DATE DRAWN: 7-72
CHECKED BY: MMY
APPROVED BY: John W. Boyd
CHIEF ENGINEER R/E. NO. 8822
DATE: 8-30-72

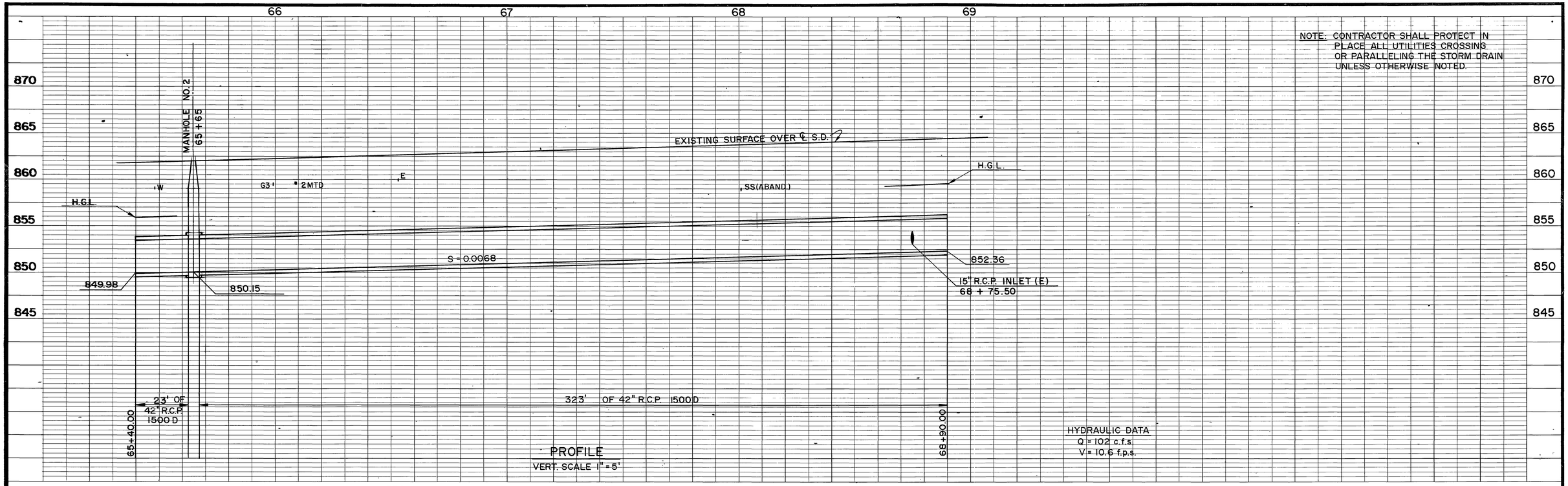
MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 61+70 TO STA. 65+40
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 18 OF 67

D2971

AS BUILT

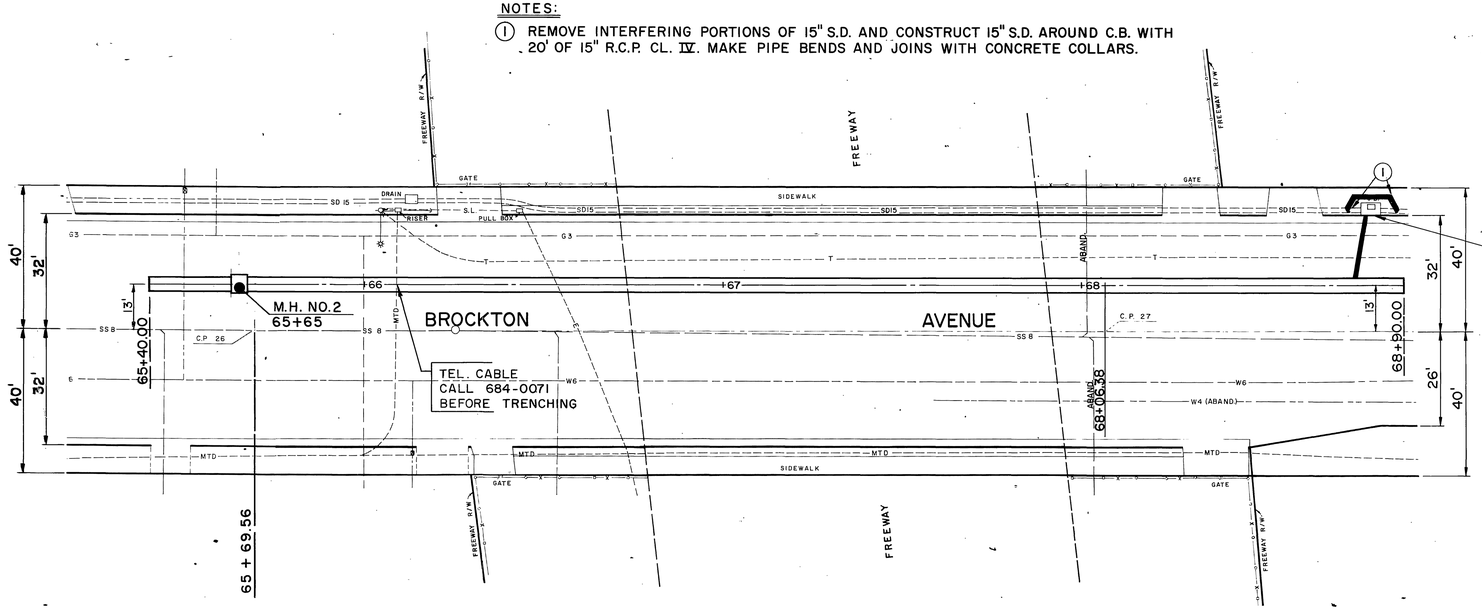
NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.



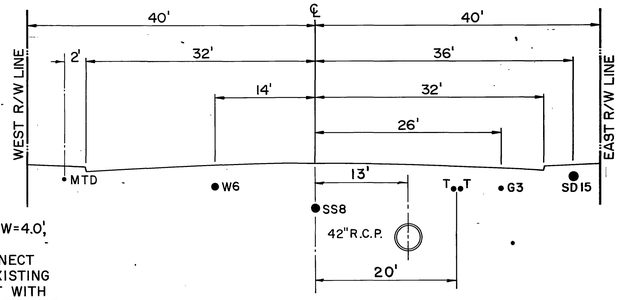
PROFILE
VERT. SCALE 1"=5'

HYDRAULIC DATA
Q = 102 c.f.s.
V = 10.6 f.p.s.

NOTES:
(1) REMOVE INTERFERING PORTIONS OF 15" S.D. AND CONSTRUCT 15" S.D. AROUND C.B. WITH 20' OF 15" R.C.P. CL. IV. MAKE PIPE BENDS AND JOINS WITH CONCRETE COLLARS.



EXISTING C.B. V=3.3' W=4.0'
20'-15" R.C.P. CL. IV.
BREAK INTO C.B., CONNECT 15" R.C.P. AND PLUG EXISTING 15" INLET AND OUTLET WITH 6" CONCRETE. SEE CONNECTOR PIPE PROFILE ON SHEET NO. 31.



CROSS SECTION
STA. 67+00.00
SCALE 1"=10'

PLAN
1"=20'
20' 0 20'

BENCH MARK
C.P. NO. 26 - ELEV. = 862.402'
SET NAIL & R.C.F.C. TAG IN FRONT OF 7170 BROCKTON.
C.P. NO. 27 - ELEV. = 864.106'
SET NAIL & R.C.F.C. TAG E. SIDE FWY. BRIDGE & BROCKTON.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO
APPROVED BY:
DATE: 7-28-72
REGISTERED CIVIL ENGINEER NO. 12116

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED BY: J.M.D.
DRAWN BY: G.S.
DATE DRAWN: 7-72
CHECKED BY: MA
APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN

PALM AVENUE LATERAL

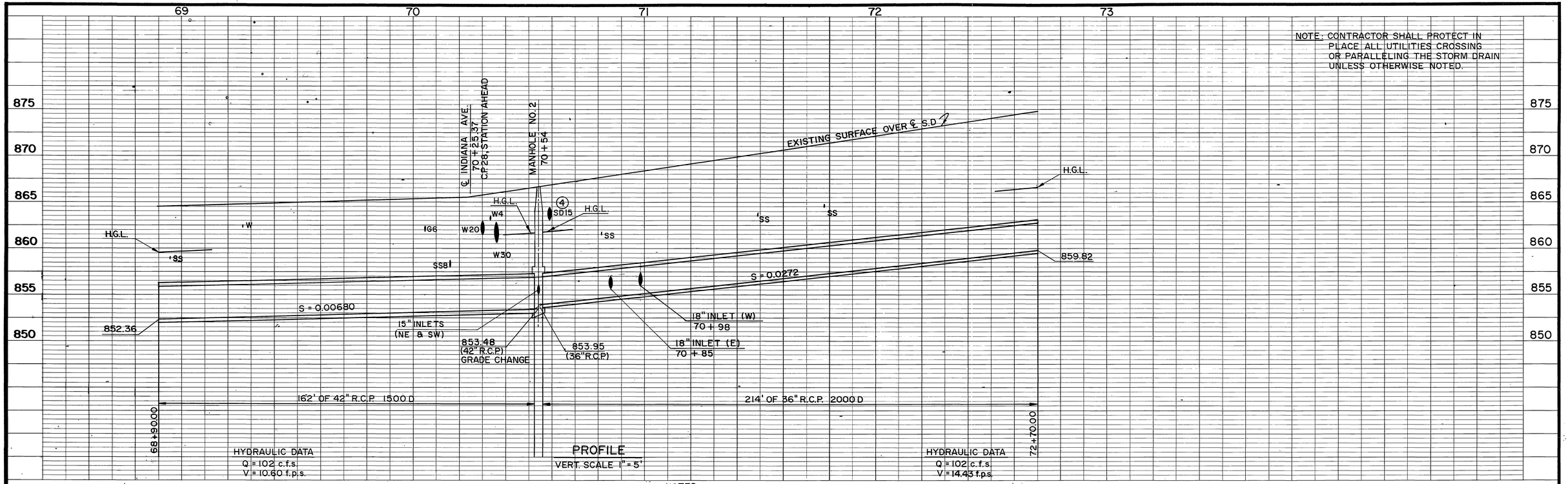
STA. 65+40 TO STA. 68+90

1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 19 OF 67

D-297

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.



PROFILE
VERT. SCALE 1" = 5'

NOTES

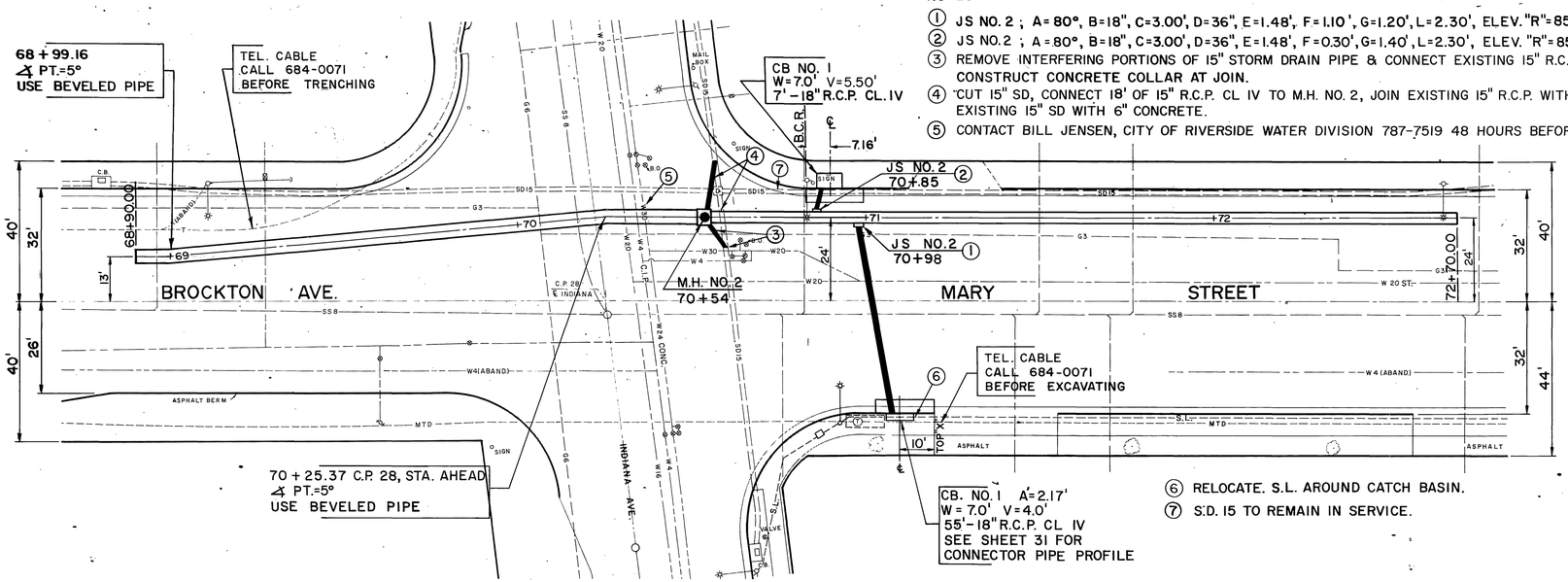
① JS NO. 2 ; A= 80°, B=18", C=3.00', D=36", E=1.48', F=1.10', G=1.20', L=2.30', ELEV. "R"=856.52, ELEV. "S" = 856.23.

② JS NO.2 ; A = 80°, B=18", C=3.00', D=36", E=1.48', F=0.30', G=1.40', L=2.30', ELEV. "R"= 857.55 , ELEV. "S" = 856.60.

③ REMOVE INTERFERING PORTIONS OF 15" STORM DRAIN PIPE & CONNECT EXISTING 15" R.C.P. TO M.H. NO. 2 WITH THE REMOVED PIPE. CONSTRUCT CONCRETE COLLAR AT JOIN.

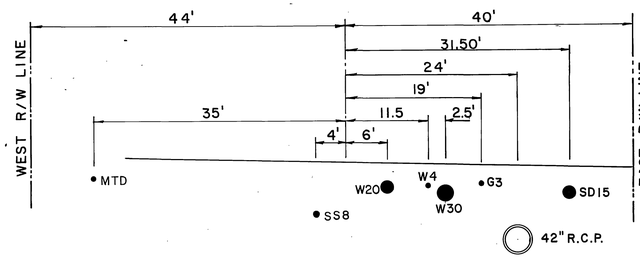
④ CUT 15" SD, CONNECT 18' OF 15" R.C.P. CL IV TO M.H. NO. 2, JOIN EXISTING 15" R.C.P. WITH A CONCRETE COLLAR, AND PLUG THE EXISTING 15" SD WITH 6" CONCRETE.

⑤ CONTACT BILL JENSEN, CITY OF RIVERSIDE WATER DIVISION 787-7519 48 HOURS BEFORE BREAKING PAVEMENT.



⑥ RELOCATE. S.L. AROUND CATCH BASIN.

⑦ S.D. 15 TO REMAIN IN SERVICE.



CROSS SECTION
STA. 70 + 42
SCALE: 1"=10'

PLAN
1"=20'
20' 0 20'

BENCH MARK
C.P. NO. 28 - ELEV.= 865.684'
TOP OF NAIL AND TIN WITH "X" TIES BROCKTON & INDIANA BEGIN MARY ST.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO

APPROVED BY:
DATE: 7-28-72
REGISTERED CIVIL ENGINEER NO. 12116

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: F.L.P.O.
DRAWN BY: G.S.
DATE DRAWN: 7-72
CHECKED BY: M.M.Y.

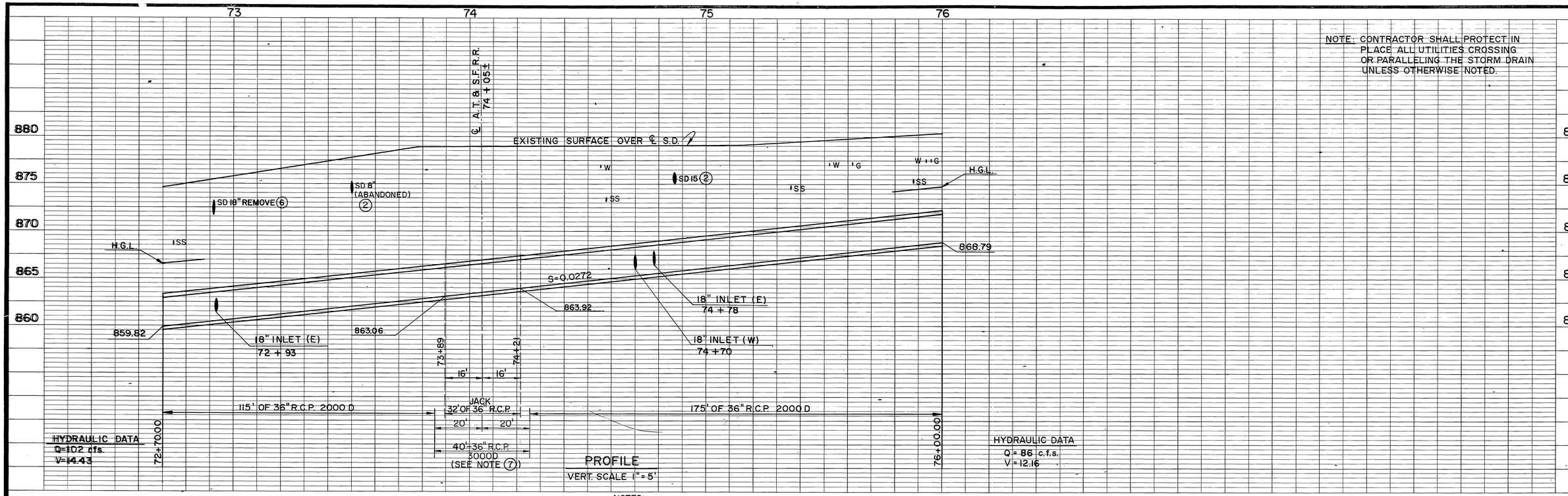
APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 68+90 TO STA. 72+70
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 20 OF 67

D297

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.



NOTES:

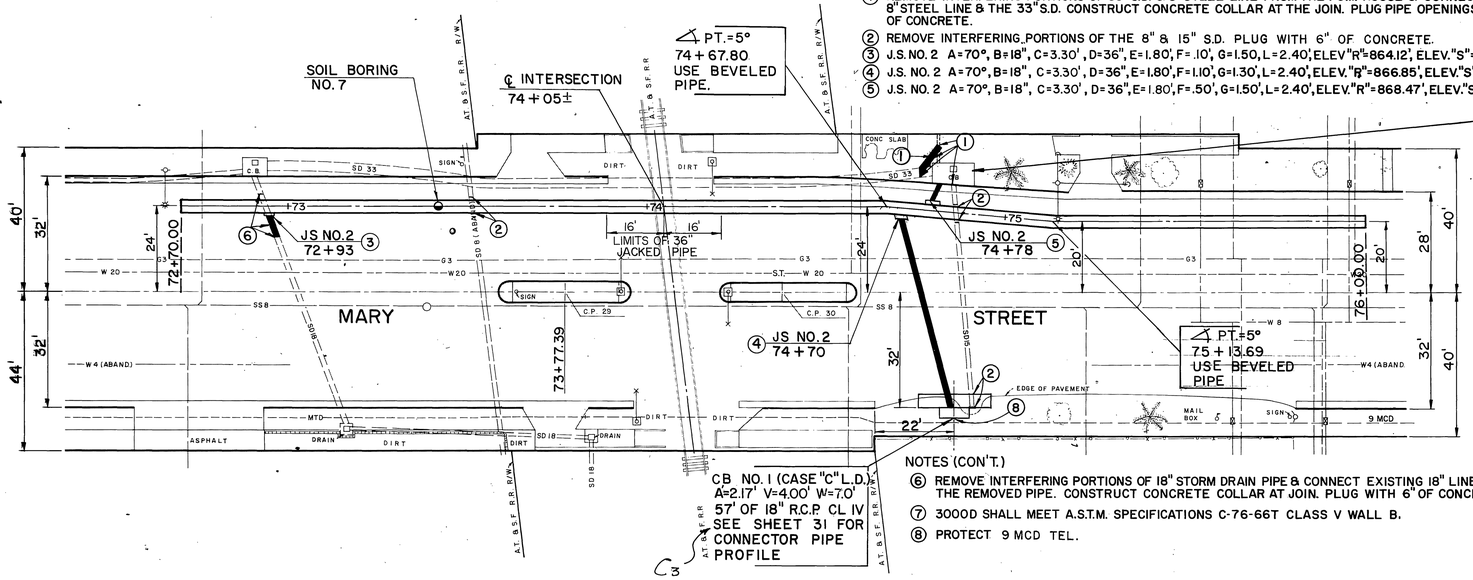
(1) REMOVE INTERFERING PORTIONS OF 33" S.D. & 8" STEEL LINE FROM THE PUMPHOUSE & CONNECT 11' OF 18" R.C.P. CL. IV TO THE 8" STEEL LINE & THE 33" S.D. CONSTRUCT CONCRETE COLLAR AT THE JOIN. PLUG PIPE OPENINGS FROM CATCH BASIN WITH 6" OF CONCRETE.

(2) REMOVE INTERFERING PORTIONS OF THE 8" & 15" S.D. PLUG WITH 6" OF CONCRETE.

(3) J.S. NO. 2 A=70°, B=18", C=3.30', D=36", E=1.80', F=.10', G=1.50, L=2.40', ELEV "R"=864.12', ELEV. "S"=862.61'.

(4) J.S. NO. 2 A=70°, B=18", C=3.30', D=36", E=1.80', F=1.10', G=1.30', L=2.40', ELEV. "R"=866.85', ELEV. "S"=866.34'.

(5) J.S. NO. 2 A=70°, B=18", C=3.30', D=36", E=1.80', F=.50', G=1.50', L=2.40', ELEV. "R"=868.47', ELEV. "S"=867.28'.



NOTES (CON'T.)

(6) REMOVE INTERFERING PORTIONS OF 18" STORM DRAIN PIPE & CONNECT EXISTING 18" LINE TO S.D. WITH THE REMOVED PIPE. CONSTRUCT CONCRETE COLLAR AT JOIN. PLUG WITH 6" OF CONCRETE. SEE PROFILE ON SHEET NO. 32.

(7) 3000D SHALL MEET A.S.T.M. SPECIFICATIONS C-76-66T CLASS V WALL B.

(8) PROTECT 9 MCD TEL.

CROSS SECTION
STA. 75+92.00
SCALE 1"=10'

PLAN
1"=20'
20' 0 20'

BENCH MARK
C.P. NO. 29 - ELEV. = 879.054'
SET NAIL & R.C.F.C. TAG IN MIDDLE OF W. ISLAND AT RR TRACKS & MARY ST.
C.P. NO. 30 - ELEV. = 879.293'
SET NAIL & R.C.F.C. TAG IN MIDDLE OF E. ISLAND AT RR TRACKS & MARY ST.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO

APPROVED BY:
DATE: 7-28-72
REGISTERED CIVIL ENGINEER NO. 12116

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
C3	Connector Pipe raised to clear SSB W/W 9/10		

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

DESIGNED BY: G.M.O.
DRAWN BY: L.L.C.
DATE DRAWN: 7-72
CHECKED BY: WWV

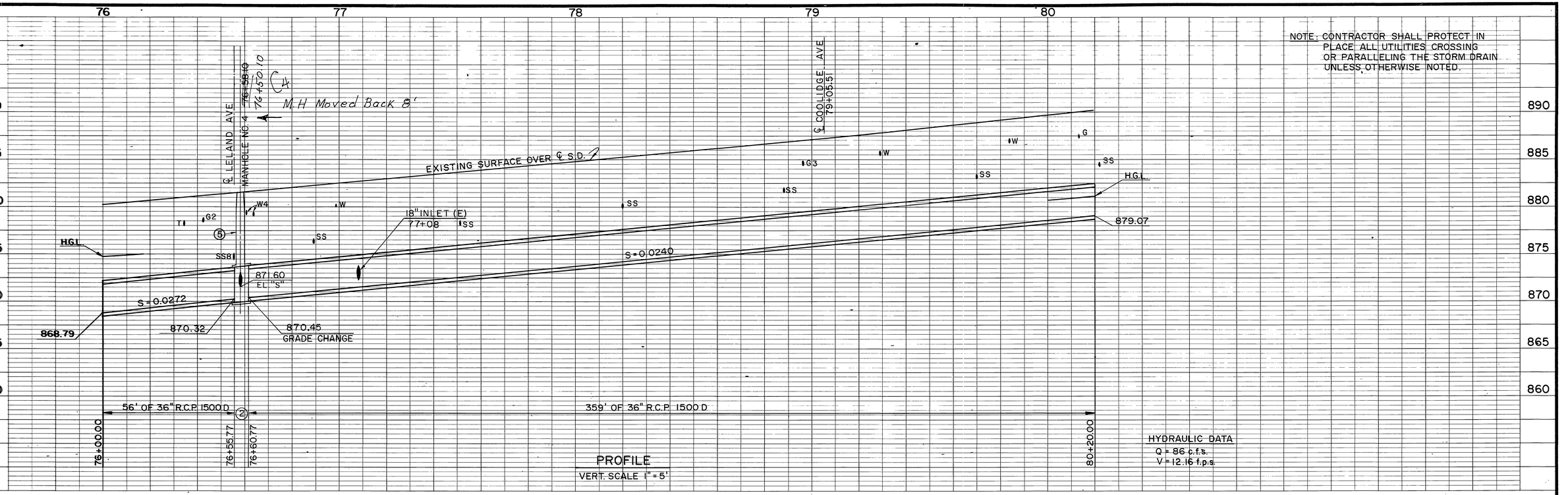
APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 72 + 70 TO STA. 76 + 00
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 21 OF 67

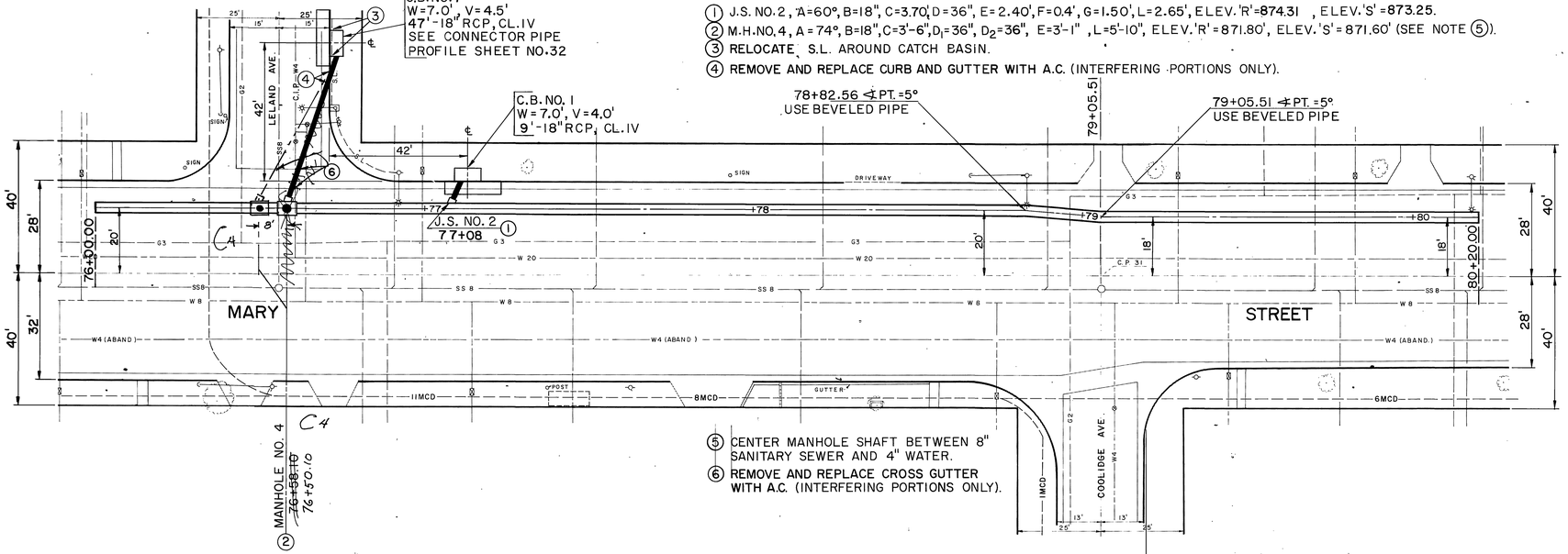
D297 f

NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.

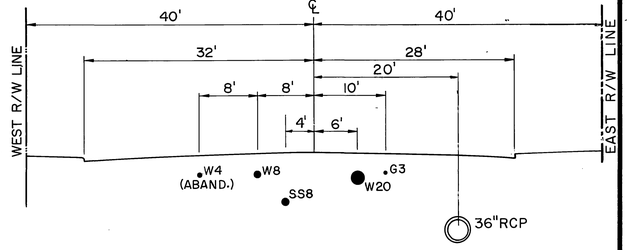


NOTES:

1. J.S. NO. 2, A=60°, B=18", C=3.70', D=36", E=2.40', F=0.4', G=1.50', L=2.65', ELEV. 'R'=874.31, ELEV. 'S'=873.25.
2. M.H. NO. 4, A=74°, B=18", C=3'-6", D_1=36", D_2=36", E=3'-1", L=5'-10", ELEV. 'R'=871.80', ELEV. 'S'=871.60' (SEE NOTE 5).
3. RELOCATE S.L. AROUND CATCH BASIN.
4. REMOVE AND REPLACE CURB AND GUTTER WITH A.C. (INTERFERING PORTIONS ONLY).



5. CENTER MANHOLE SHAFT BETWEEN 8" SANITARY SEWER AND 4" WATER.
6. REMOVE AND REPLACE CROSS GUTTER WITH A.C. (INTERFERING PORTIONS ONLY).



CROSS SECTION
STA. 77+20
SCALE 1"=10'

PLAN
1"=20'
20' 0 20'

BENCH MARK
C.P. NO. 31 - ELEV. = 888.004'
TOP OF 1½" I.P. DOWN 0.23' AT MARY & WEST COOLIDGE.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO

APPROVED BY:
DATE: 7-28-72
REGISTERED CIVIL ENGINEER NO. 12116

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
C4	MH. Moved Back 8 ft.	W.M.	9/26

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

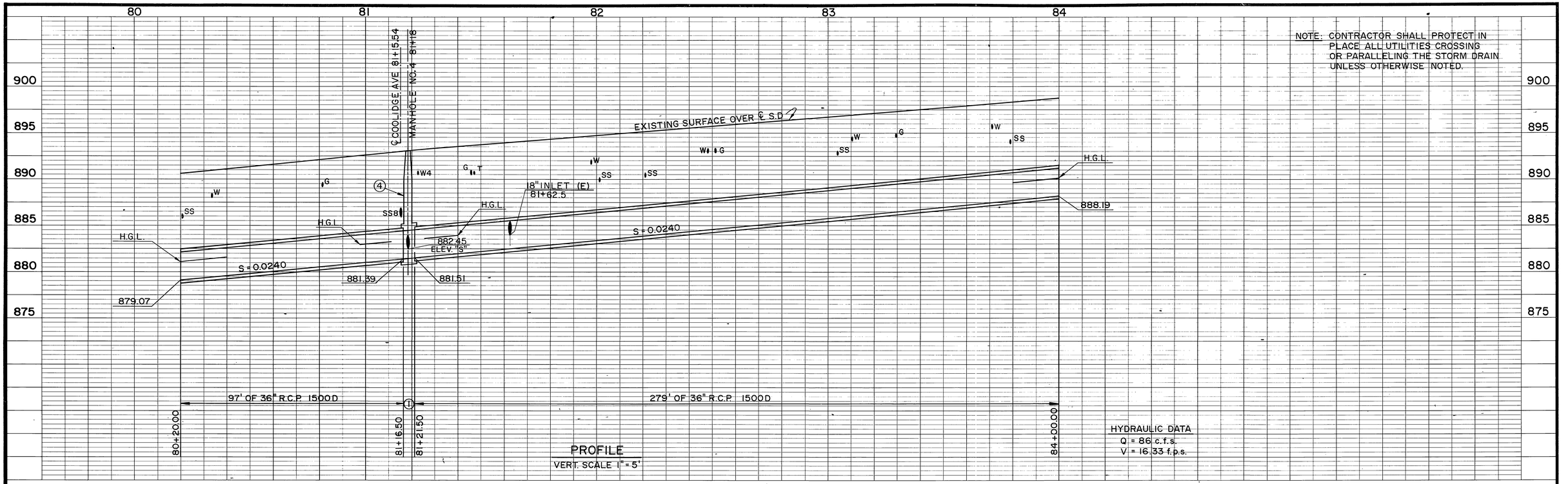
DESIGNED BY: T.M.B.
DRAWN BY: B.S.
DATE DRAWN: 7-72
CHECKED BY:

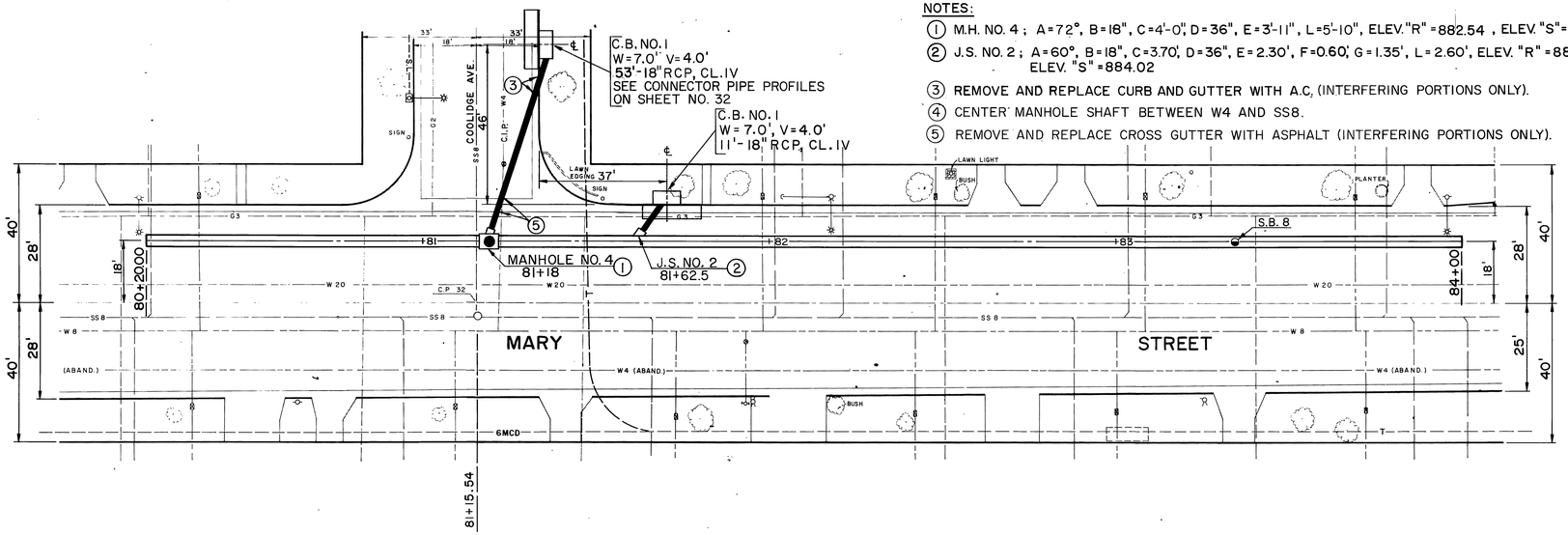
APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 76+00 TO STA. 80+20
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 22 OF 67

D2971





NOTES:

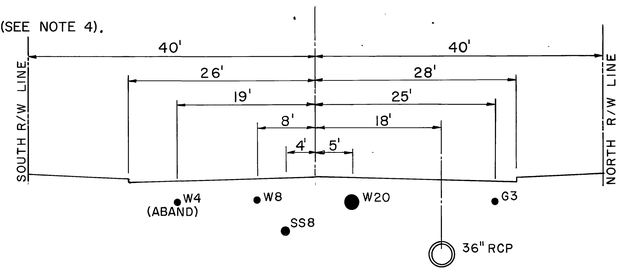
① M.H. NO. 4 ; A=72°, B=18", C=4'-0", D=36", E=3'-11", L=5'-10", ELEV."R" =882.54 , ELEV."S"=882.45 (SEE NOTE 4).

② J.S. NO. 2 ; A=60°, B=18", C=3.70', D=36", E=2.30', F=0.60', G=1.35', L=2.60', ELEV. "R" =884.68 ELEV. "S" =884.02

③ REMOVE AND REPLACE CURB AND GUTTER WITH A.C. (INTERFERING PORTIONS ONLY).

④ CENTER MANHOLE SHAFT BETWEEN W4 AND SS8.

⑤ REMOVE AND REPLACE CROSS GUTTER WITH ASPHALT (INTERFERING PORTIONS ONLY).



CROSS SECTION
STA. 81+85.00
SCALE 1"=10'

PLAN
1"=20'
20' 0 20'

BENCH MARK
C.P. NO. 32 - ELEV. = 893.085
NAIL & TIN IN WHITE X AT MARY AND E. COOLIDGE.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO
APPROVED BY:
DATE: 7-28-72
REGISTERED CIVIL ENGINEER NO. 12116

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		

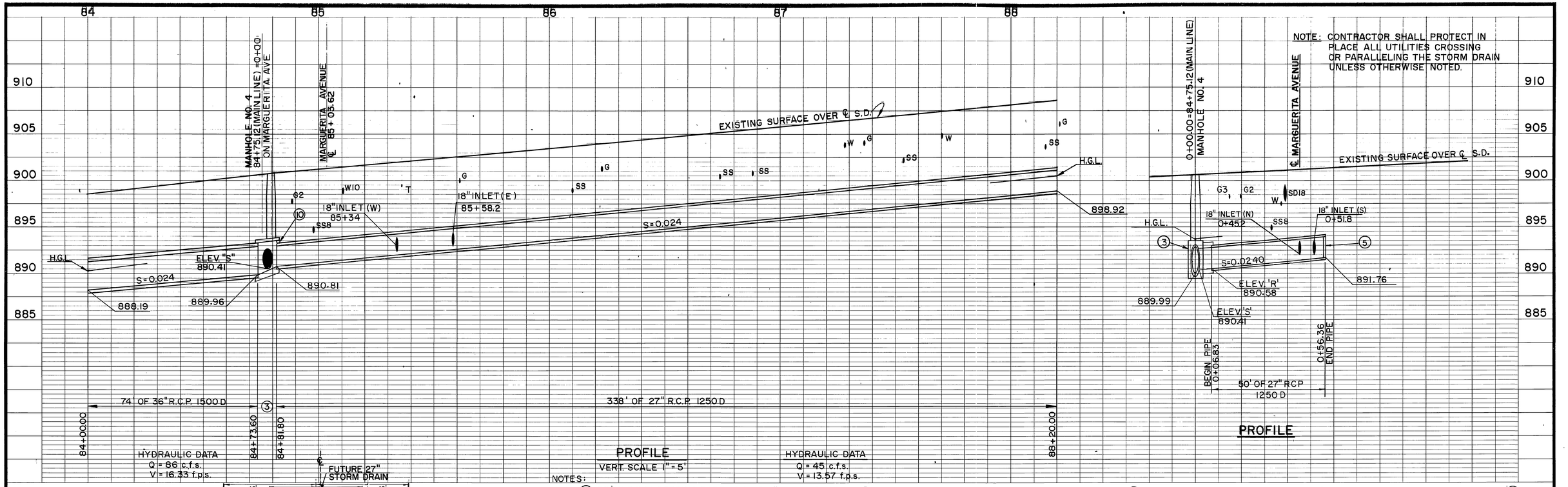
AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED BY: F.M.A
DRAWN BY: B.S.
DATE DRAWN: 7-72
CHECKED BY:
APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 80+20 TO STA. 84+00
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 23 OF 67

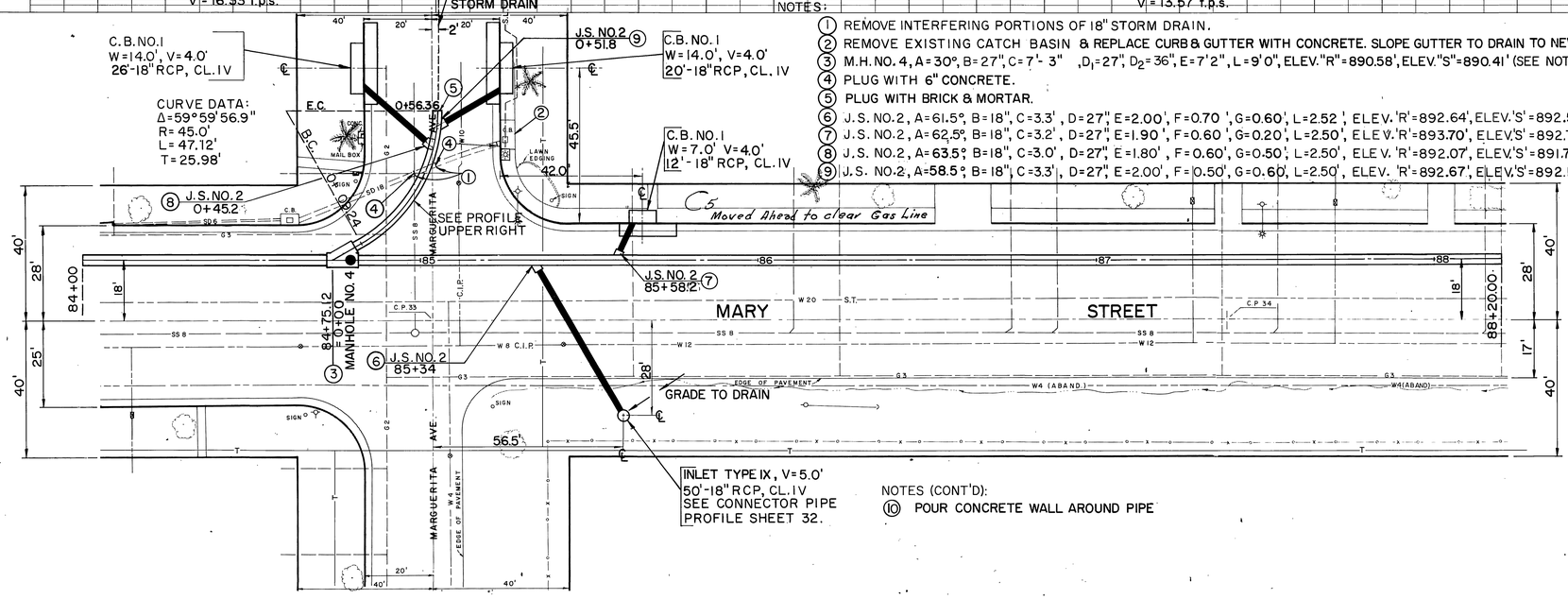
D297



NOTE: CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED.

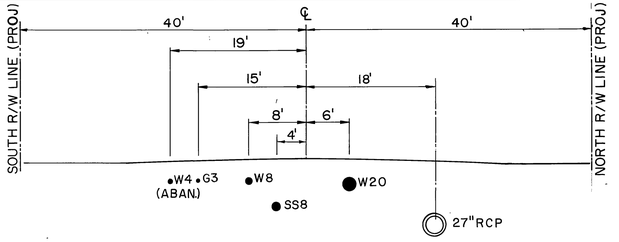
NOTES:

1. REMOVE INTERFERING PORTIONS OF 18" STORM DRAIN.
2. REMOVE EXISTING CATCH BASIN & REPLACE CURB & GUTTER WITH CONCRETE. SLOPE GUTTER TO DRAIN TO NEW C.B.
3. M.H. NO. 4, A=30°, B=27", C=7'-3", D_1=27", D_2=36", E=7'2", L=9'0", ELEV. "R"=890.58', ELEV. "S"=890.41' (SEE NOTE ⑩).
4. PLUG WITH 6" CONCRETE.
5. PLUG WITH BRICK & MORTAR.
6. J.S. NO.2, A=61.5°, B=18", C=3.3', D=27", E=2.00', F=0.70', G=0.60', L=2.52', ELEV. 'R'=892.64', ELEV. 'S'=892.50'.
7. J.S. NO.2, A=62.5°, B=18", C=3.2', D=27", E=1.90', F=0.60', G=0.20', L=2.50', ELEV. 'R'=893.70', ELEV. 'S'=892.74'.
8. J.S. NO.2, A=63.5°, B=18", C=3.0', D=27", E=1.80', F=0.60', G=0.50', L=2.50', ELEV. 'R'=892.07', ELEV. 'S'=891.77'.
9. J.S. NO.2, A=58.5°, B=18", C=3.3', D=27", E=2.00', F=0.50', G=0.60', L=2.50', ELEV. 'R'=892.67', ELEV. 'S'=892.12'.



NOTES (CONT'D):

⑩ POUR CONCRETE WALL AROUND PIPE



CROSS SECTION
STA. 85+03.00
SCALE 1"=10'

PLAN
1"=20'
20' 0 20'

BENCH MARK
C.P. NO. 33 - ELEV. = 901.091'
TOP TWO INCH IRON PIPE AT INTERSECTION OF MARY AND MARGUERITA DOWN 1.15.
C.P. NO. 34 - ELEV. = 906.999'
NAIL TIN IN WHITE X IN FRONT OF 3075 MARY STREET.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO
APPROVED BY:
DATE: 7-28-72
REGISTERED CIVIL ENGINEER NO. 12116

REVISIONS			
REF.	DESCRIPTION	APPR.	DATE
C6	C.B. Moved Ahead to clear G Line	MW	9-76

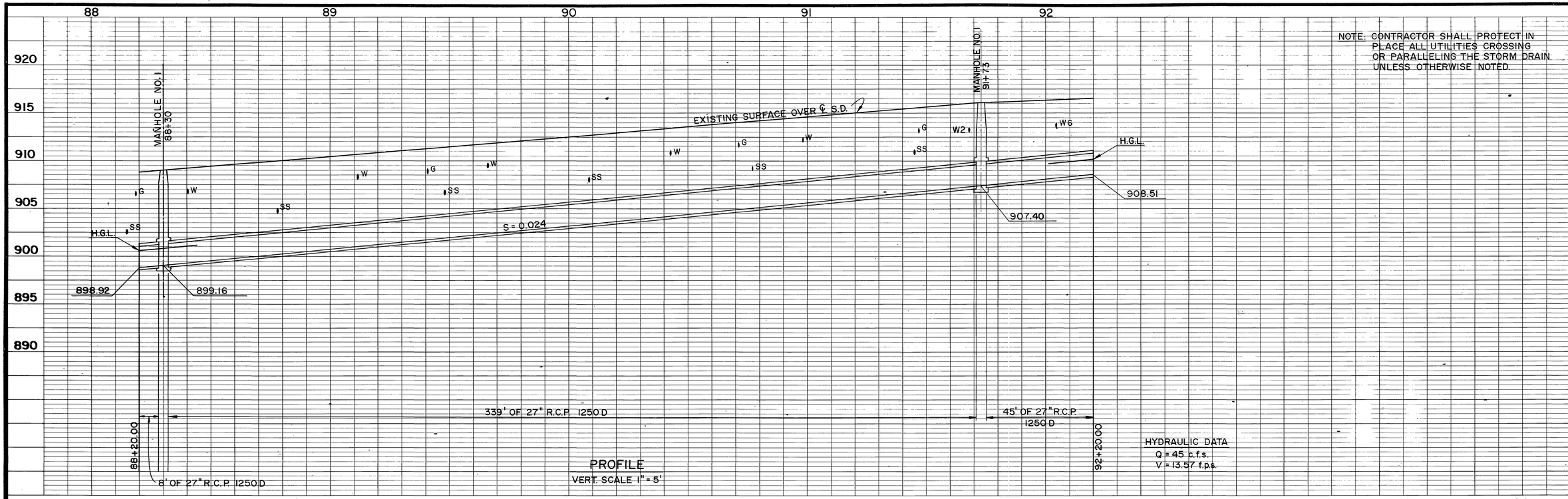
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED BY: F.M.B.
DRAWN BY: R.P.G.
DATE DRAWN: 7-72
CHECKED BY:
APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 84+00 TO STA. 88+20
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

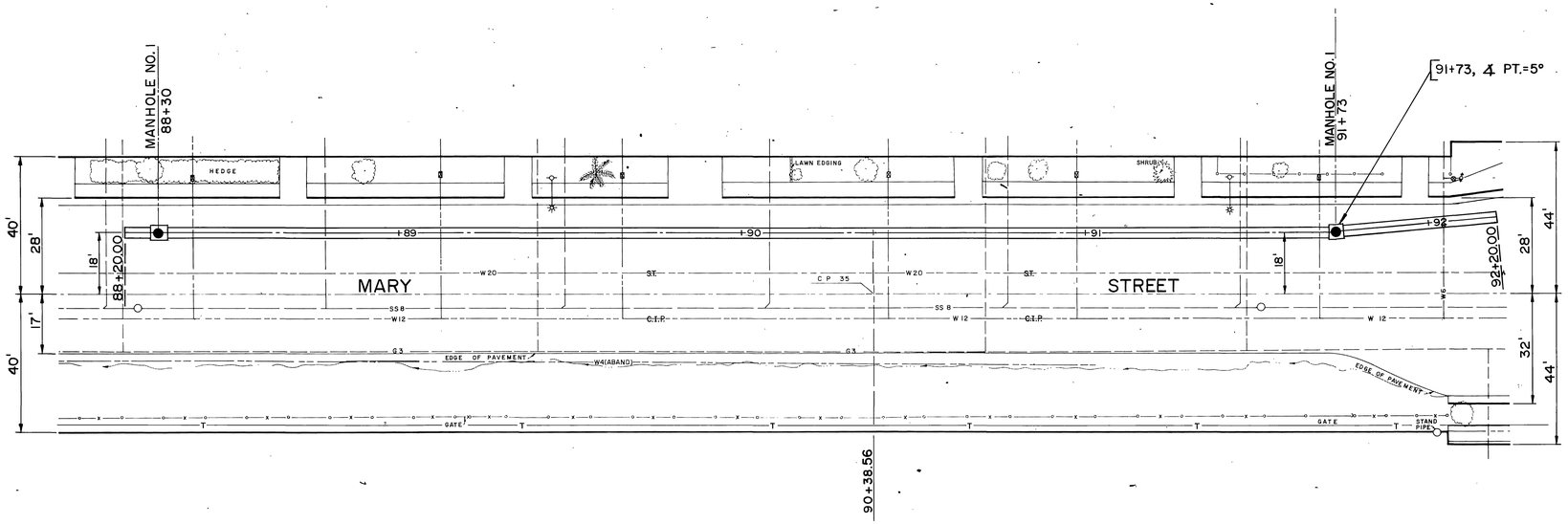
PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 24 OF 67

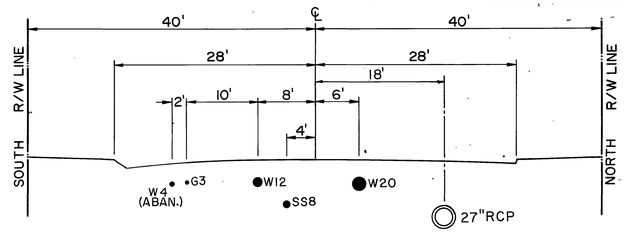
0297

AS BUILT



PROFILE
VERT. SCALE 1" = 5'





CROSS SECTION
STA. 90+00.00
SCALE 1"=10'

PLAN
1"=20'
20' 0 20'

BENCH MARK
C.P. NO. 35 - ELEV. = 913.645'
NAIL & TIN IN WHITE 'X' IN FRONT OF 3025 MARY ST.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO
APPROVED BY:
DATE: 7-28-72
REGISTERED CIVIL ENGINEER NO. 12116

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
	No Change		

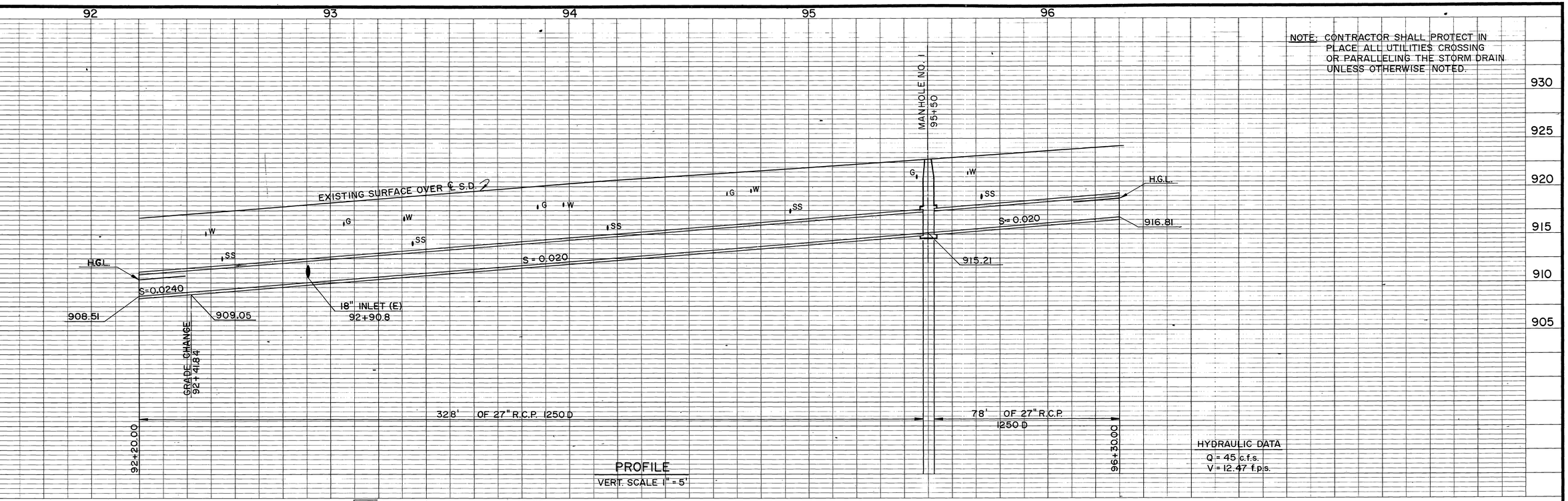
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED BY: J.M.O.
DRAWN BY: J.M.O.
DATE DRAWN: 7-72
CHECKED BY: MWY
APPROVED BY:
CHIEF ENGINEER R.E. NO. 8822
DATE: 9-30-72

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 88+20 TO STA. 92+20
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

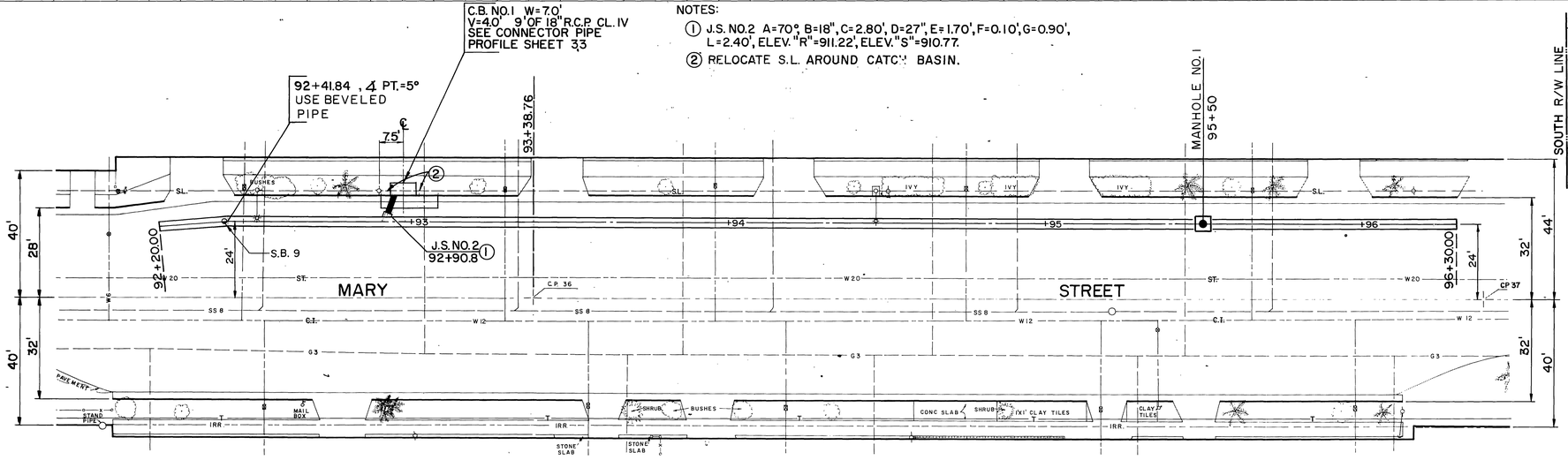
PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 25 OF 67

D 297

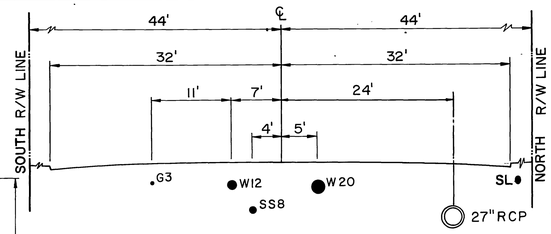
AS BUILT



PROFILE
VERT. SCALE 1" = 5'



NOTES:
1. J.S. NO.2 A=70°, B=18", C=2.80', D=27", E=1.70', F=0.10', G=0.90', L=2.40', ELEV. "R"=911.22', ELEV. "S"=910.77.
2. RELOCATE S.L. AROUND CATCH BASIN.



CROSS SECTION
STA. 93+00.00
SCALE 1"=10'

D297

PLAN
1"=20'
20' 0 20'

BENCH MARK
C.P. NO. 36 - ELEV. = 919.590'
NAIL & TIN IN WHITE X IN FRONT OF 2983 MARY ST.
C.P. NO. 37 - ELEV. = 926.047'
NAIL & TIN IN WHITE X IN FRONT 2931 MARY ST.

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO
APPROVED BY:
REGISTERED CIVIL ENGINEER NO. 12116
DATE: 7-28-72

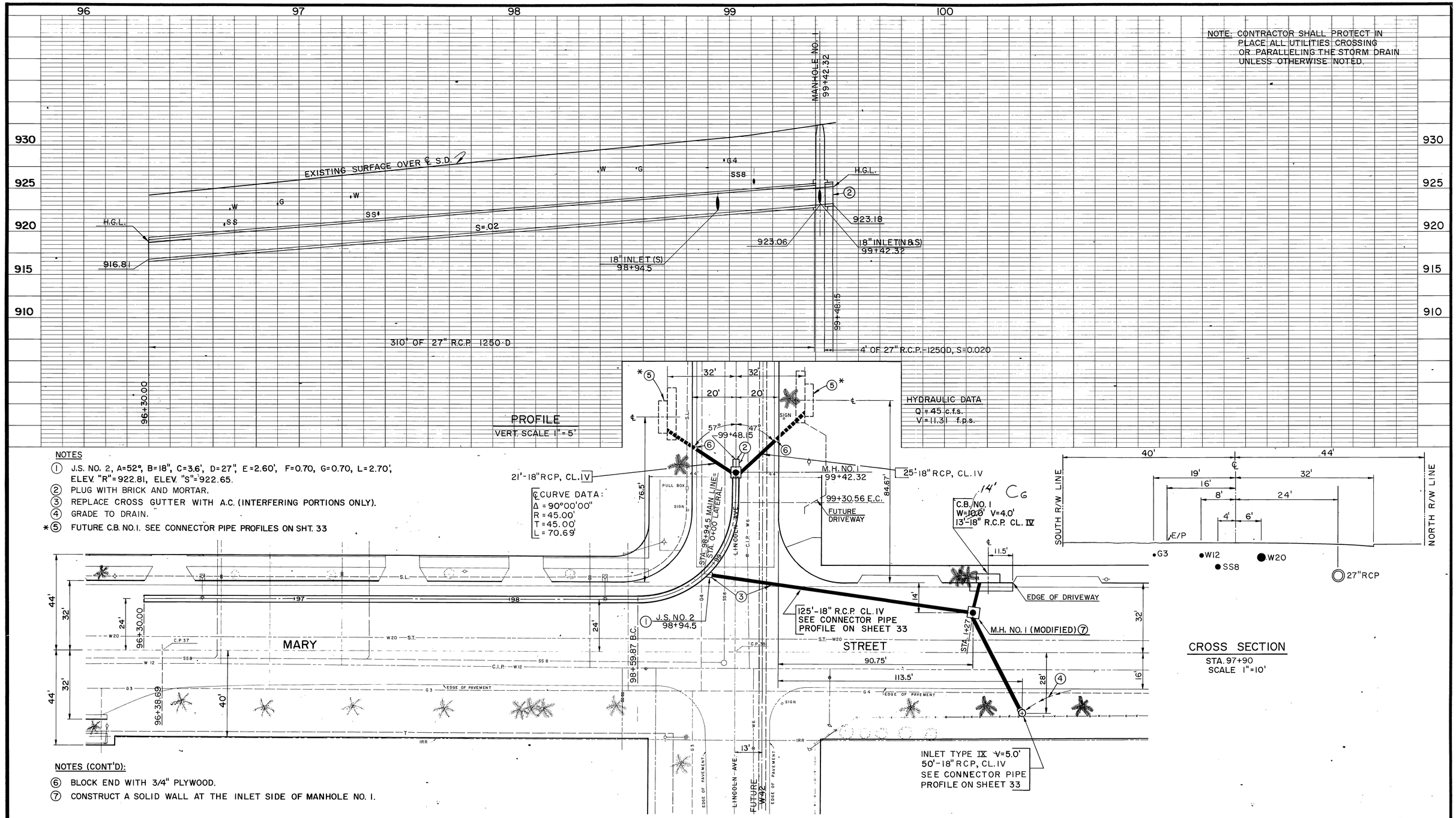
REVISIONS
No Change
REF. DESCRIPTION APPR. DATE

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED BY: F.M.O.
DRAWN BY: L.G.B.
DATE DRAWN: 7-72
CHECKED BY:
APPROVED BY:
John W. Bryant
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 92+20 TO STA. 96+30
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 26 OF 67

AS BUILT



NOTES

1. J.S. NO. 2, A=52°, B=18", C=3.6', D=27", E=2.60', F=0.70, G=0.70, L=2.70', ELEV. "R"=922.81, ELEV. "S"=922.65.
2. PLUG WITH BRICK AND MORTAR.
3. REPLACE CROSS GUTTER WITH A.C. (INTERFERING PORTIONS ONLY).
4. GRADE TO DRAIN.
5. * FUTURE C.B. NO. 1. SEE CONNECTOR PIPE PROFILES ON SHT. 33

NOTES (CONT'D):

6. BLOCK END WITH 3/4" PLYWOOD.
7. CONSTRUCT A SOLID WALL AT THE INLET SIDE OF MANHOLE NO. 1.

D297

PLAN

1"=20'

20' 0 20'

BENCH MARK
C.P. NO. 37 - ELEV. = 926.047'
NAIL & TIN IN WHITE X IN FRONT OF 2931 MARY ST.
C.P. NO. 38 - ELEV. = 931.638'
TOP OF TWO INCH IRON PIPE INTERSECTION OF MARY AND LINCOLN DOWN 0.77'

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO

APPROVED BY:
REGISTERED CIVIL ENGINEER NO. 12116
DATE: 7-28-72

REVISIONS

REF.	DESCRIPTION	APPR.	DATE
*	W=8.0', V=4.0' Constructed per City of Riverside Dwg. No. R-1483 Sht. 5 Dated 5-3-74	D.T.S	5-13-74
C6	Changed W to 14' as shown	H.M.	9/76

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

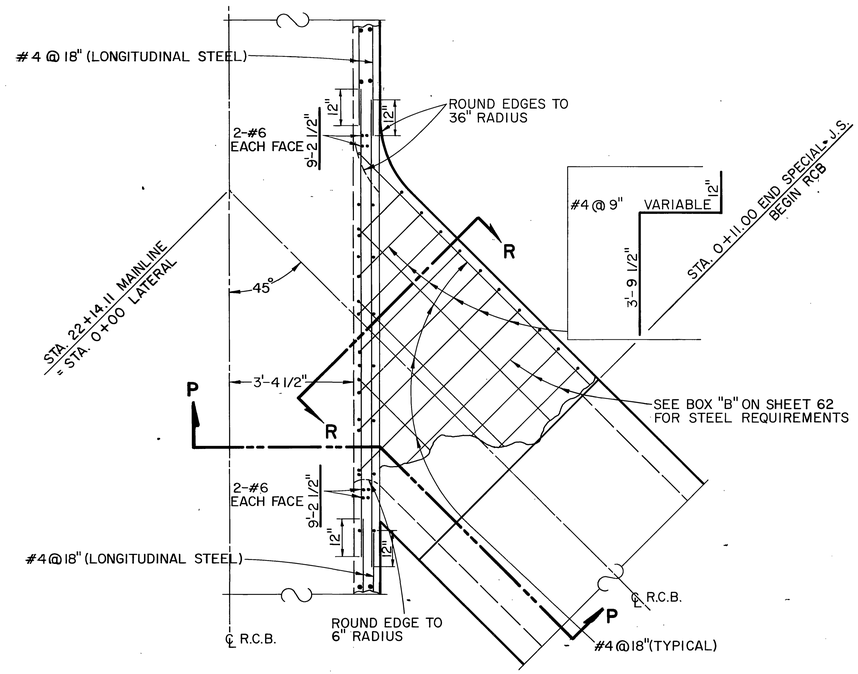
DESIGNED BY: F.M.D.
DRAWN BY: G.S.
DATE DRAWN: 7-72
CHECKED BY: [signature]

APPROVED BY:
John W. Bryant
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
STA. 96+30 TO STA. 99+48.15
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

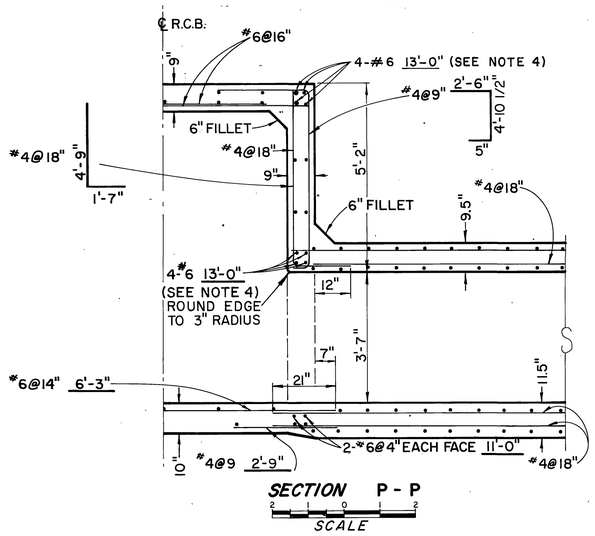
PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 27 OF 67

AS BUILT



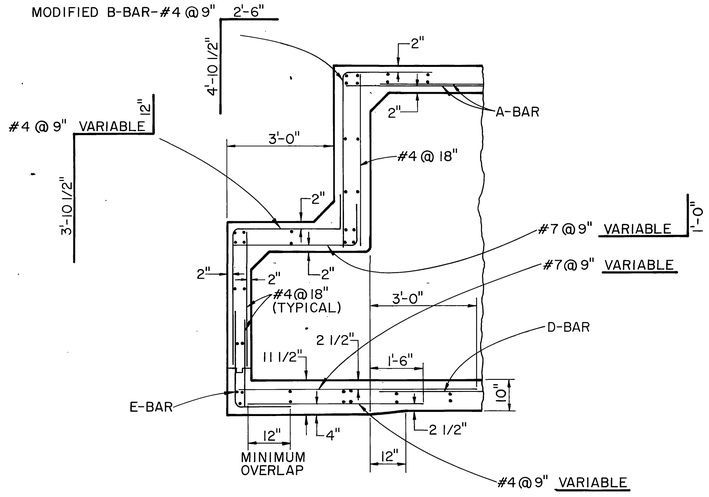
PLAN VIEW **SPECIAL JUNCTION STRUCTURE**

2 1 0 1 2
SCALE



SECTION **P - P**

2 1 0 1 2
SCALE



SECTION **R-R**

2 1 0 1 2
SCALE

SPECIAL JUNCTION STRUCTURE NOTES:

1. SPECIAL JUNCTION STRUCTURE SHALL BE POURED MONOLITHICALLY WITH MAIN LINE.
2. SEE SHEET 62 FOR ADDITIONAL STRUCTURAL NOTES AND STEEL REQUIREMENTS OF MAIN LINE AND THE SHATTO PLACE LATERAL REINFORCED CONCRETE BOX.
3. STEEL NOT SPECIFIED IN THESE SECTIONS SHALL BE AS SPECIFIED IN THE STRUCTURAL BOX DETAILS ON SHEET 62.
4. CENTER # 6 BARS ABOUT THE CENTERLINE OF SIDE INLET R.C.B.
5. COVER ON REINFORCING STEEL IS TO ℄ OF BAR.

D297

BENCH MARK

NESTE, BRUDIN & STONE
INCORPORATED
CIVIL ENGINEERS
SAN BERNARDINO · HEMET · ESCONDIDO
APPROVED BY:
DATE: 7-28-72
REGISTERED CIVIL ENGINEER NO. 12116

REVISIONS

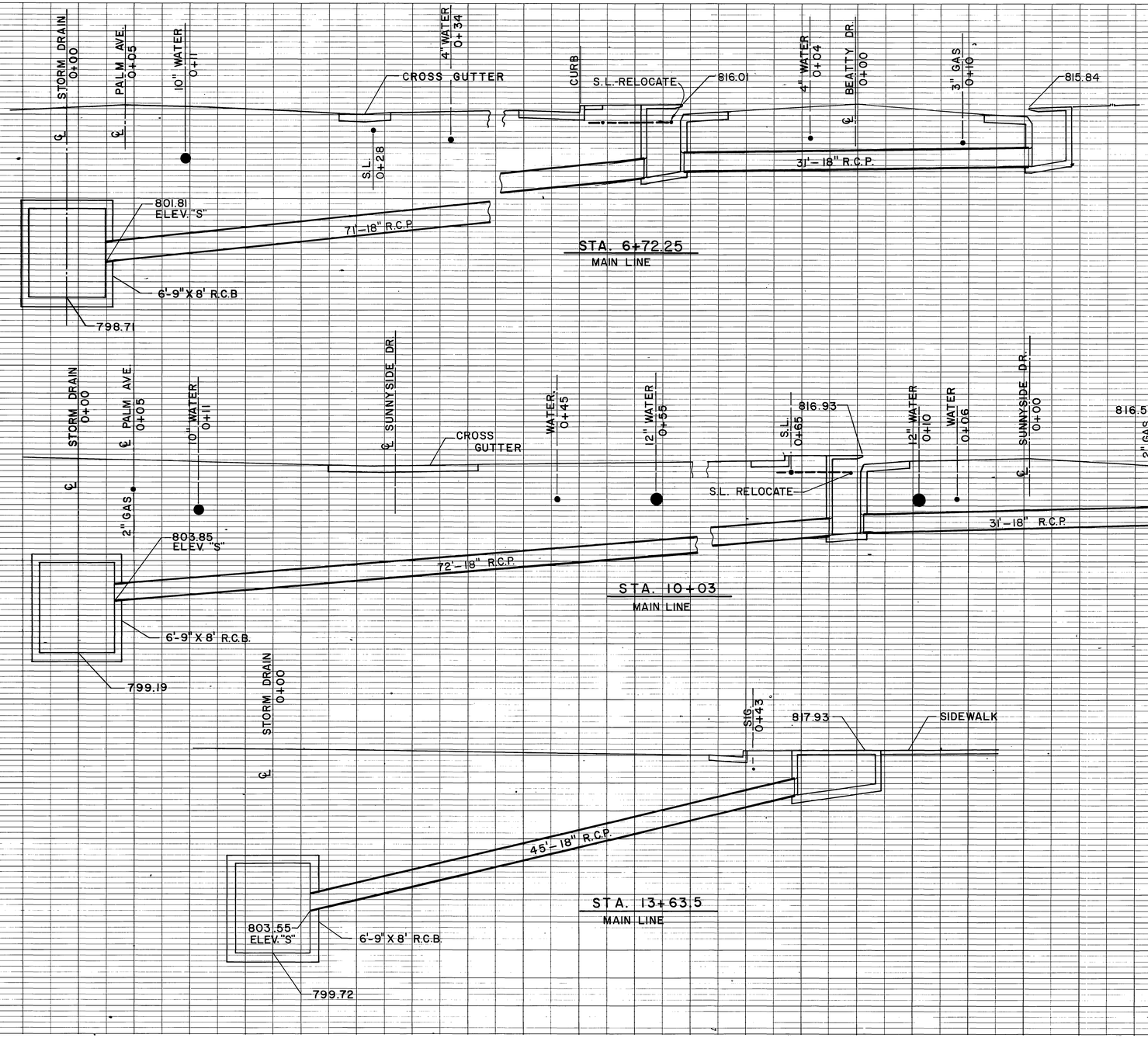
REF.	DESCRIPTION	APPR.	DATE
	No Change		

AS BUILT

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGNED BY: F.B.O.
DRAWN BY: L.P.C.
DATE DRAWN: 7-72
CHECKED BY: MW
APPROVED BY: John W. Bay
CHIEF ENGINEER R.E. NO. 8822
DATE: 8-30-72

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
SPECIAL JUNCTION STRUCTURE
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 28 OF 67

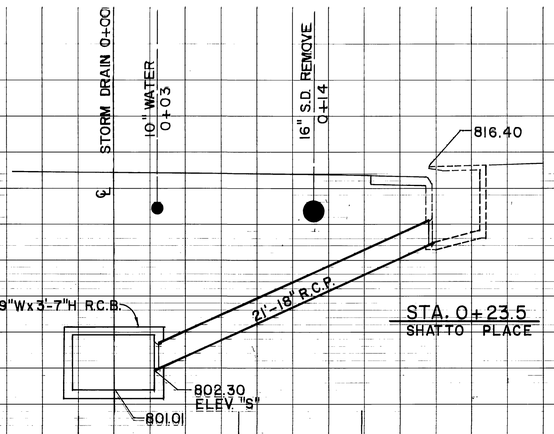


D297

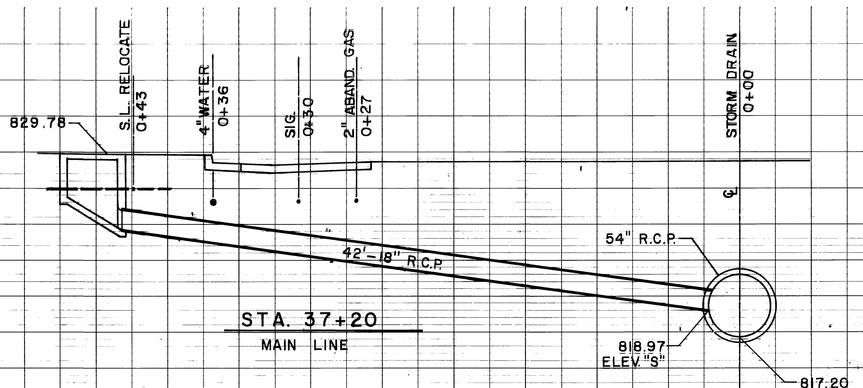
BENCH MARK	NESTE, BRUDIN & STONE INCORPORATED CIVIL ENGINEERS SAN BERNARDINO · HEMET · ESCONDIDO	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	MAGNOLIA CENTER STORM DRAIN
SCALE: 1"= 5'	APPROVED BY:		DESIGNED BY: F.M.C.	PALM AVENUE LATERAL
DATE:	DATE: 7-28-72 REGISTERED CIVIL ENGINEER NO.	REF. No Change DESCRIPTION APPR. DATE	DRAWN BY: LL	CONNECTOR PIPE PROFILES
			DATE DRAWN: 7-72	1970 STORM DRAIN BOND ISSUE PROJECT NO. 14
			CHECKED BY: MM	APPROVED BY: John W. Bryant CHIEF ENGINEER R.E. NO. 8822 DATE: 8-30-72

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 29 OF 67

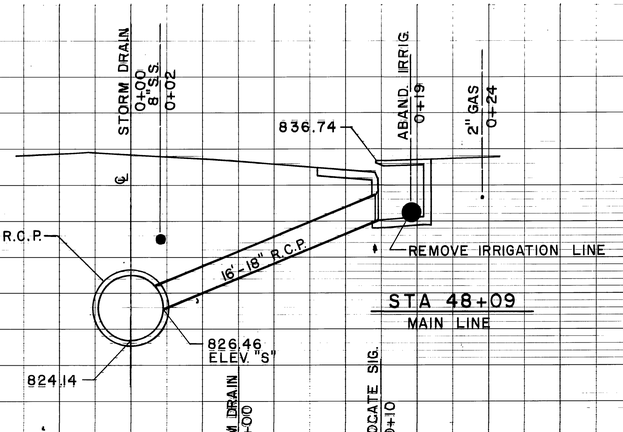
AS BUILT



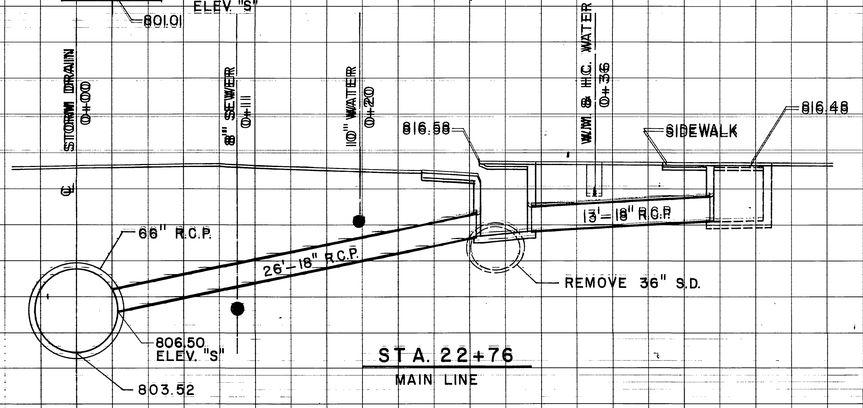
STA. 0+23.5
SHATTO PLACE



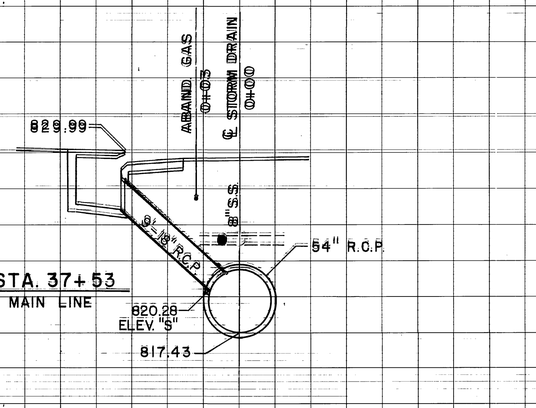
STA. 37+20
MAIN LINE



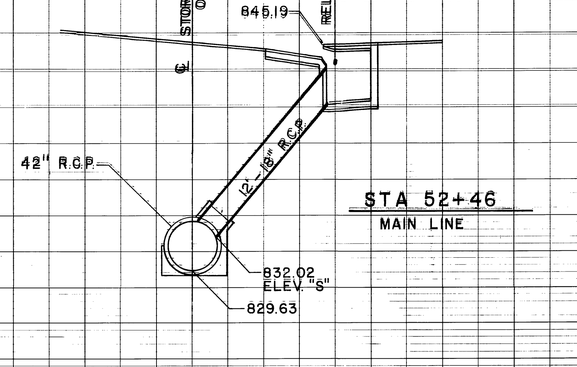
STA 48+09
MAIN LINE



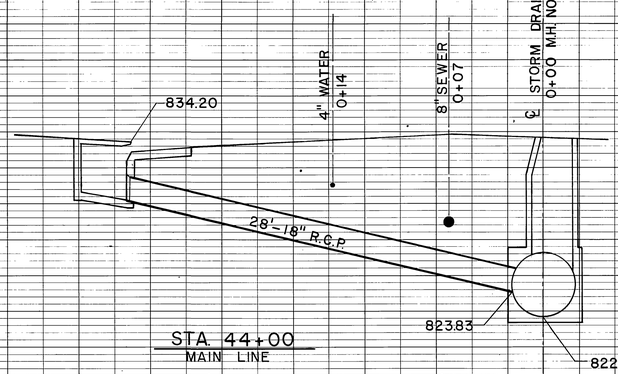
STA. 22+76
MAIN LINE



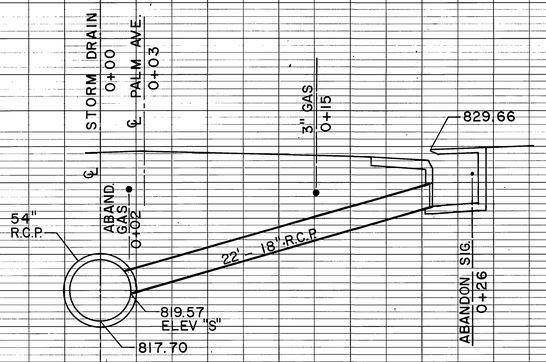
STA. 37+53
MAIN LINE



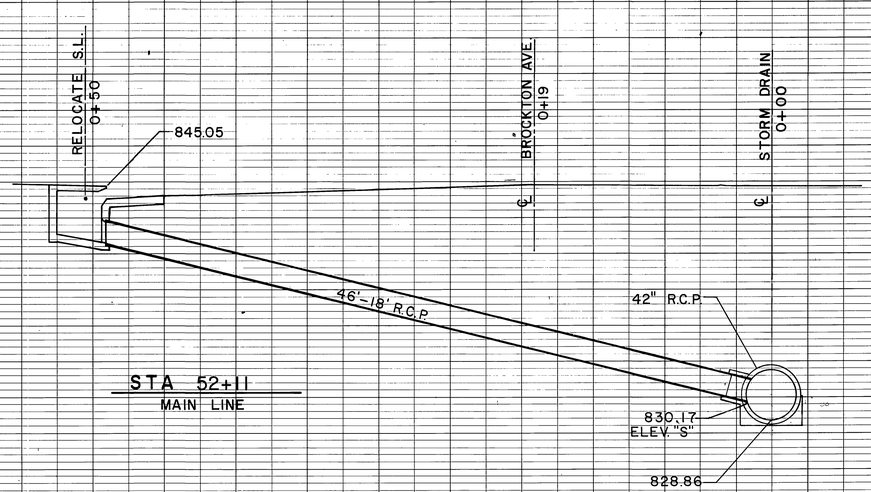
STA 52+46
MAIN LINE



STA. 44+00
MAIN LINE



STA. 37+90
MAIN LINE



STA 52+11
MAIN LINE

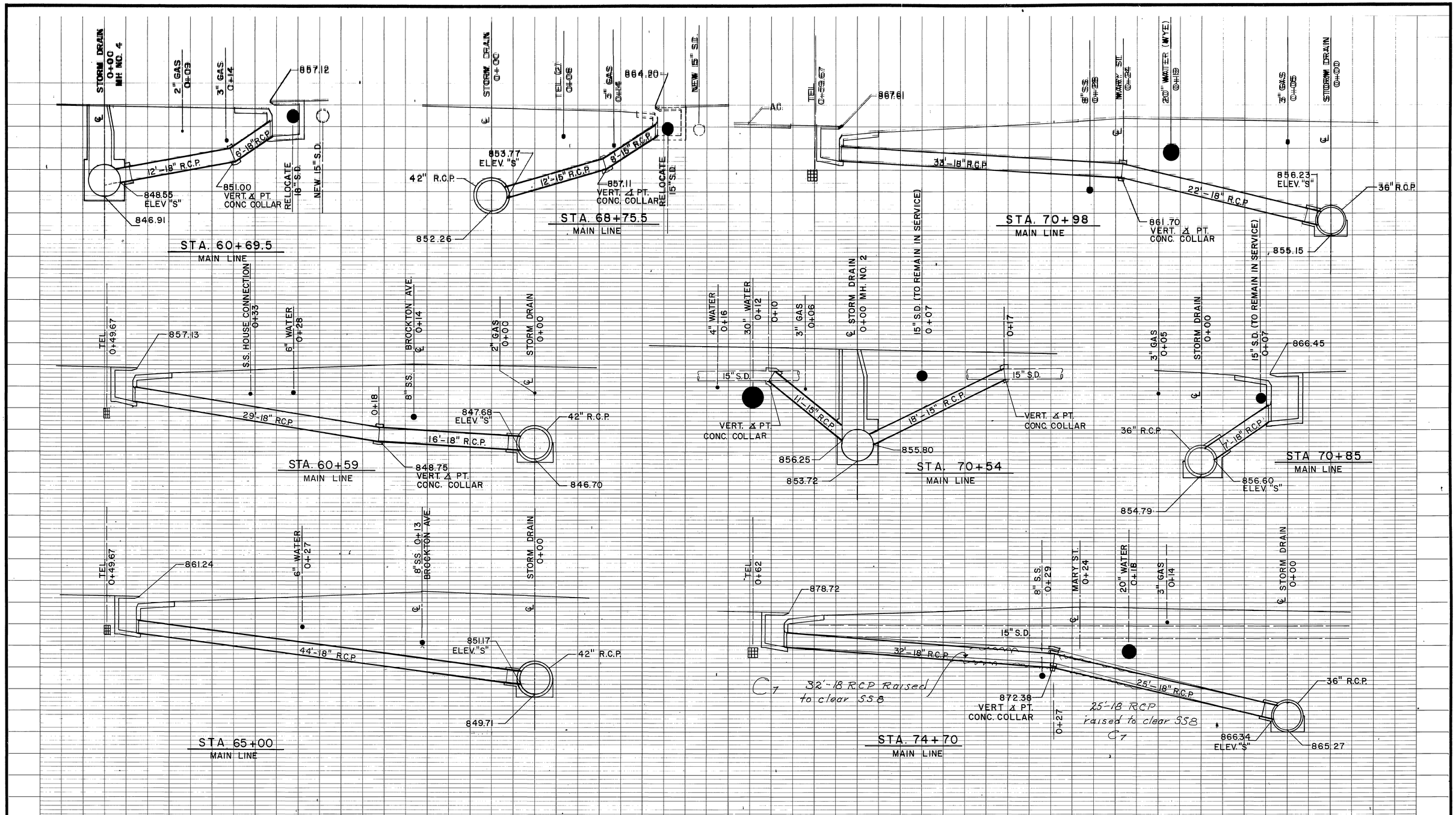
D 297

BENCH MARK	NESTE, BRUDIN & STONE INCORPORATED CIVIL ENGINEERS SAN BERNARDINO · HEMET · ESCONDIDO	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
SCALE: 1"= 5'	APPROVED BY:		DESIGNED BY: F.M.O. / APPROVED BY:
DATE:	DATE: 7-28-72 REGISTERED CIVIL ENGINEER NO.	REF. No Change DESCRIPTION APPR. DATE	DRAWN BY: L.D.L. / CHIEF ENGINEER R.E. NO. 8822
			DATE DRAWN: 7-72 / DATE: 8-30-72
			CHECKED BY: M.M.

MAGNOLIA CENTER STORM DRAIN
PALM AVENUE LATERAL
CONNECTOR PIPE PROFILES
1970 STORM DRAIN BOND ISSUE PROJECT NO. 14

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 30 OF 67

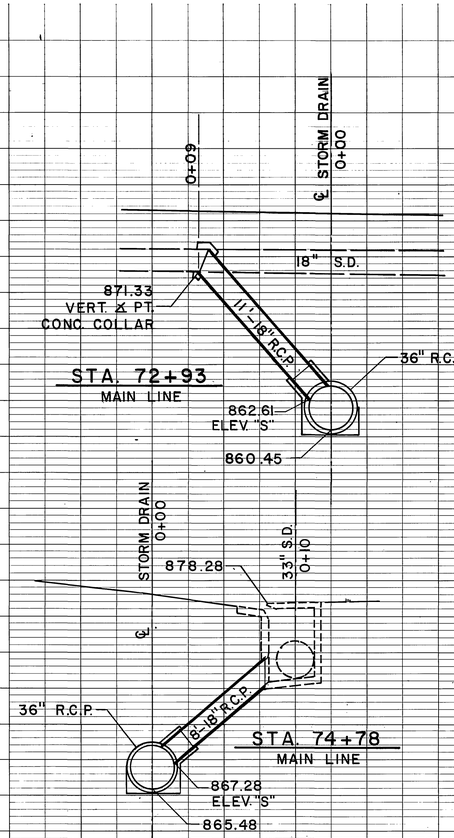
AS BUILT



D297

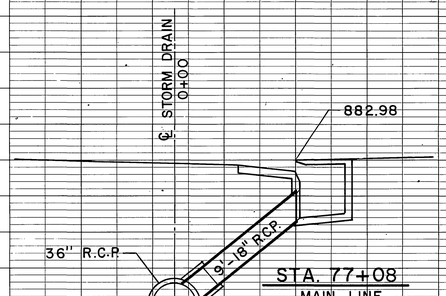
BENCH MARK	NESTE, BRUDIN & STONE INCORPORATED CIVIL ENGINEERS SAN BERNARDINO · HEMET · ESCONDIDO	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	MAGNOLIA CENTER STORM DRAIN	PROJECT NO. 1-0-191
SCALE: 1" = 5'	APPROVED BY: [signature] REGISTERED CIVIL ENGINEER NO.	C7 18" & 25" RCP raised to clear SS8 A.M. 9/74	DESIGNED BY: T.M.O. DRAWN BY: L.S.L. DATE DRAWN: 7-72 CHECKED BY: [signature]	PALM AVENUE LATERAL CONNECTOR PIPE PROFILES 1970 STORM DRAIN BOND ISSUE PROJECT NO. 14	DRAWING NO. 1-281
DATE:	DATE: 7-28-72	REF. DESCRIPTION APPR. DATE	APPROVED BY: John W. Bryant CHIEF ENGINEER R.E. NO. 8822 DATE: 8-30-72		SHEET NO. 31 OF 67

AS BUILT

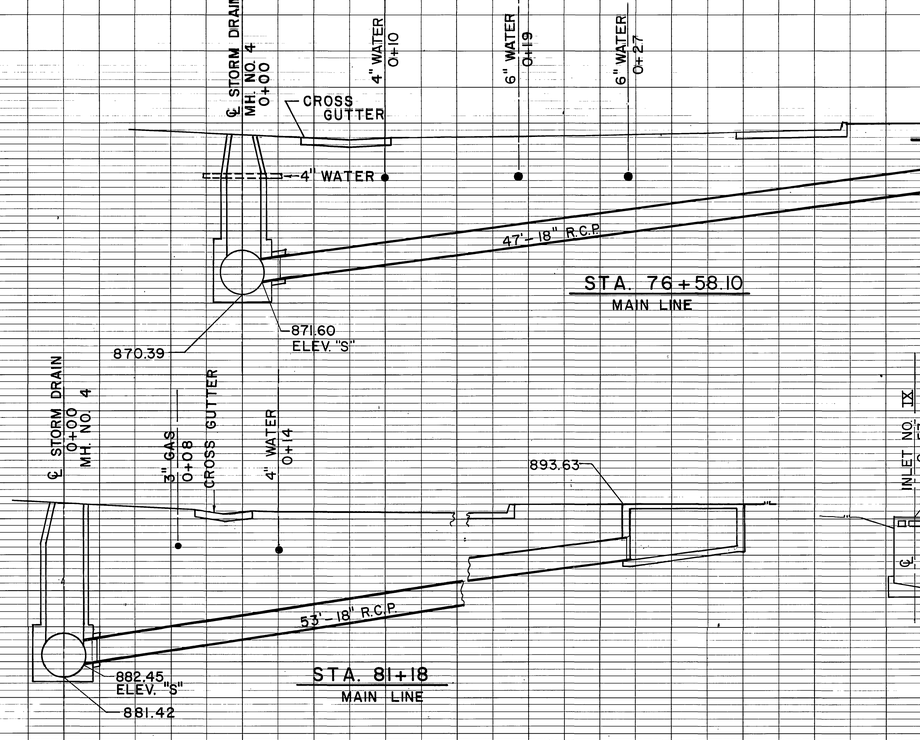


STA. 72+93
MAIN LINE

STA. 74+78
MAIN LINE

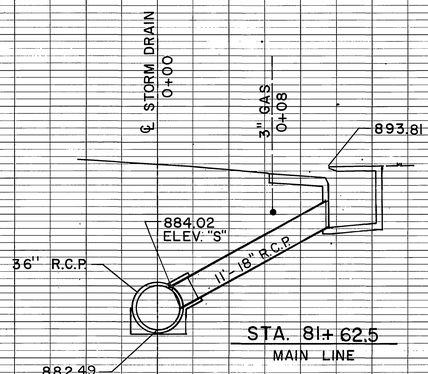


STA. 77+08
MAIN LINE

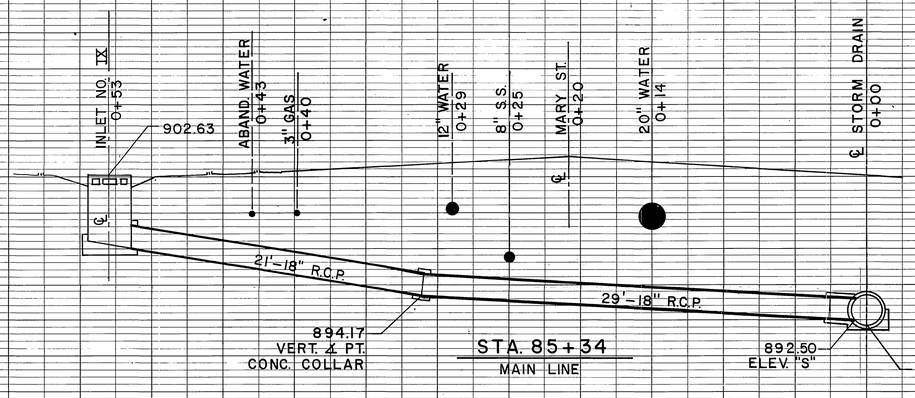


STA. 76+58.10
MAIN LINE

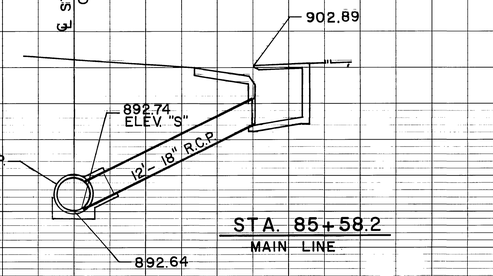
STA. 81+18
MAIN LINE



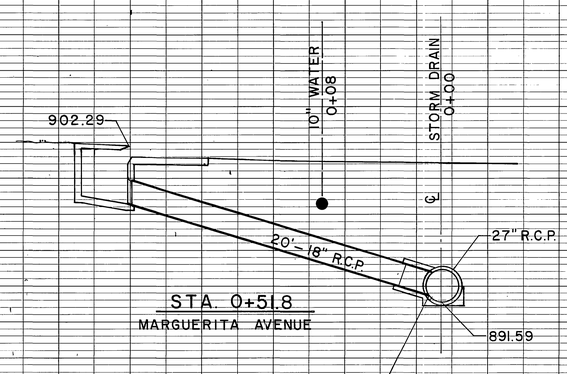
STA. 81+62.5
MAIN LINE



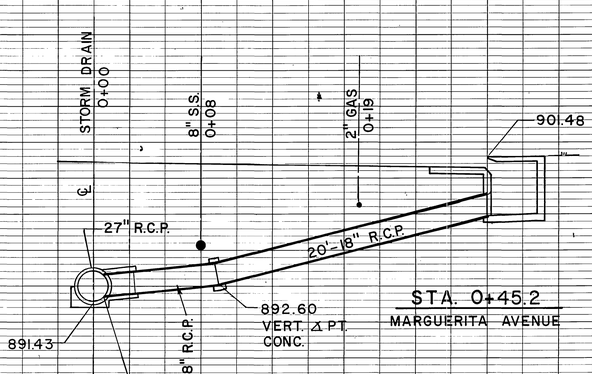
STA. 85+34
MAIN LINE



STA. 85+58.2
MAIN LINE



STA. 0+51.8
MARGUERITA AVENUE



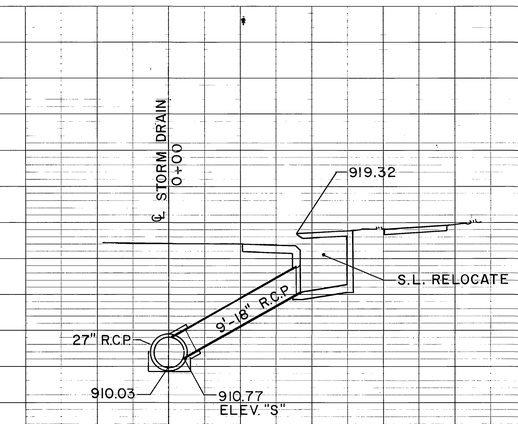
STA. 0+45.2
MARGUERITA AVENUE

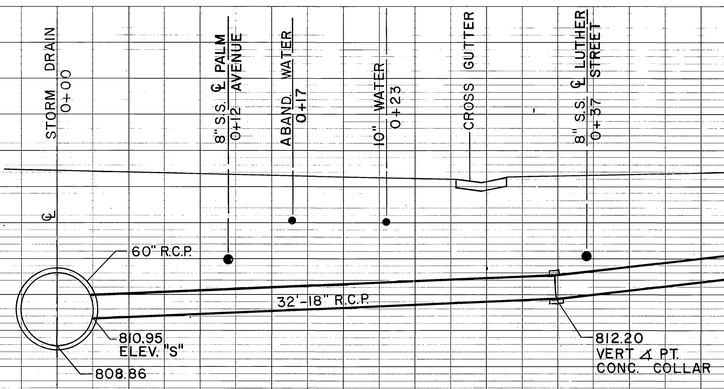
D297

BENCH MARK	NESTE, BRUDIN & STONE INCORPORATED CIVIL ENGINEERS SAN BERNARDINO · HEMET · ESCONDIDO	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	MAGNOLIA CENTER STORM DRAIN
SCALE: 1"= 5'	APPROVED BY:		DESIGNED BY: FMO	PALM AVENUE LATERAL
DATE:	DATE: 7-28-72 REGISTERED CIVIL ENGINEER NO.	REF. No Change DESCRIPTION APPR. DATE	DRAWN BY: LDL	CONNECTOR PIPE PROFILES
			DATE DRAWN: 7-72	1970 STORM DRAIN BOND ISSUE PROJECT NO. 14
			CHECKED BY: JWB	APPROVED BY: John W. Bryant CHIEF ENGINEER R.E. NO. 8822 DATE: 8-30-72

PROJECT NO. 1-0-191
DRAWING NO. 1-281
SHEET NO. 32 OF 67

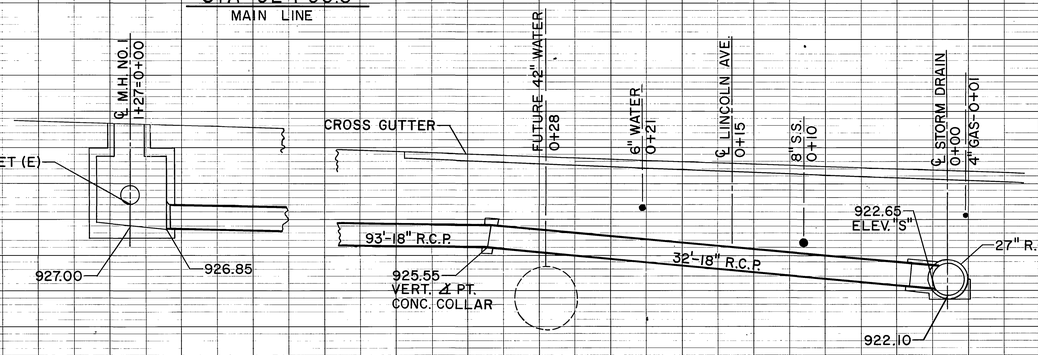
AS BUILT



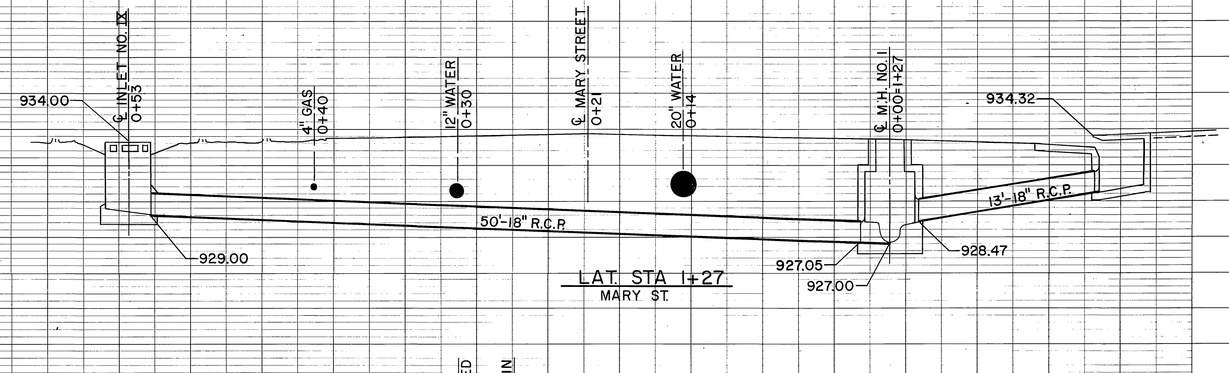


STA. 29+08
MAIN LINE

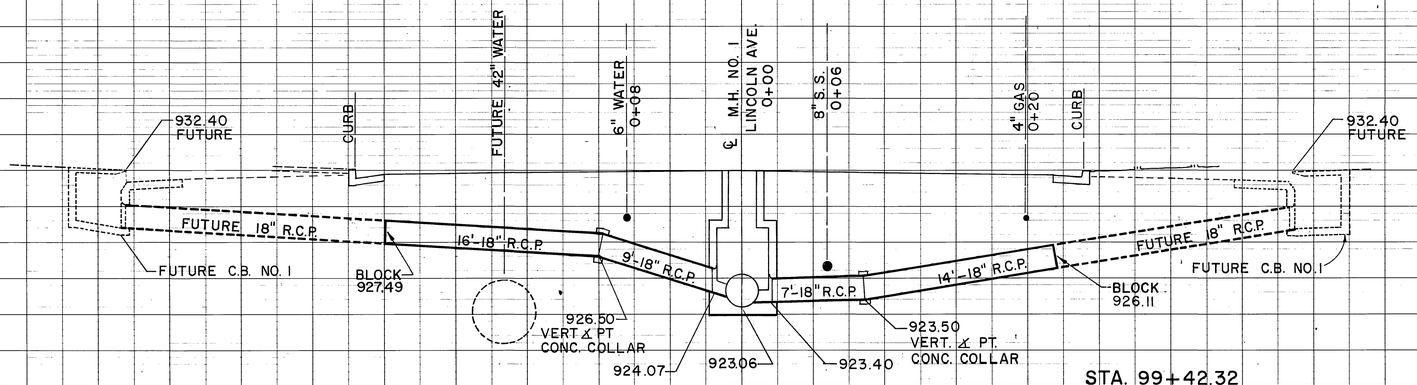
STA 92+90.8
MAIN LINE



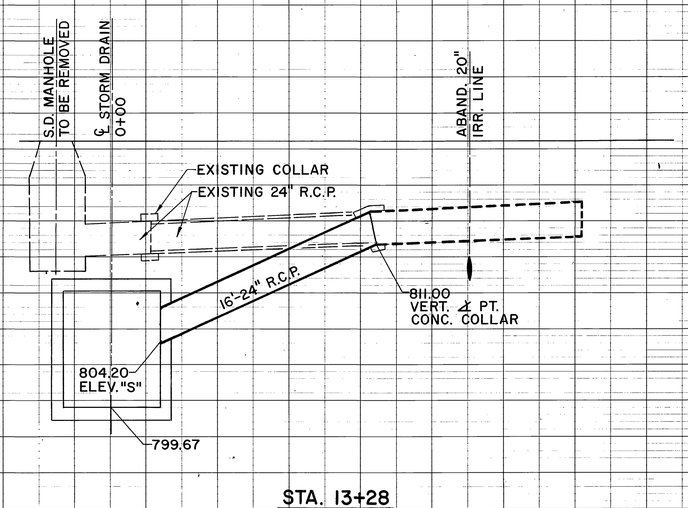
STA. 98+94.5
MAIN LINE



LAT. STA 1+27
MARY ST.



STA. 99+42.32
MAIN LINE



STA. 13+28
MAIN LINE

D297

BENCH MARK	NESTE, BRUDIN & STONE INCORPORATED CIVIL ENGINEERS SAN BERNARDINO · HEMET · ESCONDIDO	REVISIONS	RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	MAGNOLIA CENTER STORM DRAIN	PROJECT NO. 1-0-191
SCALE: 1"= 5'	APPROVED BY:		DESIGNED BY: T.M.B.	PALM AVENUE LATERAL	DRAWING NO. 1-281
DATE:	DATE: 7-28-72 REGISTERED CIVIL ENGINEER NO. 12116	REF. No Change DESCRIPTION APPR. DATE	DRAWN BY: D.R.L. DATE DRAWN: 7-72 CHECKED BY:	APPROVED BY: CHIEF ENGINEER R.E. NO. 8822 DATE: 8-30-72	SHEET NO. 33 OF 67
		AS BUILT		CONNECTOR PIPE PROFILES 1970 STORM DRAIN BOND ISSUE PROJECT NO. 14	