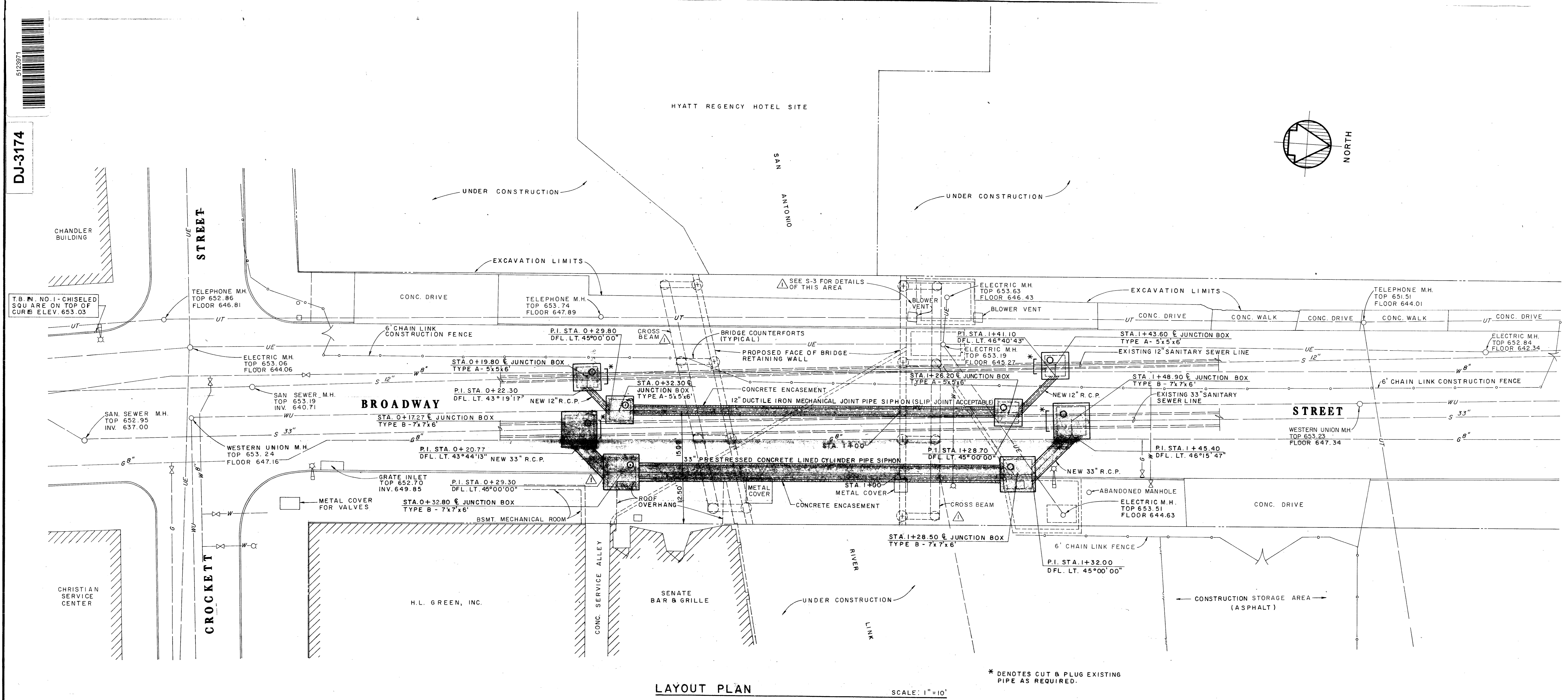


5123271

DJ-3174



LAYOUT PLAN SCALE: 1" = 10'

LEGEND

EXISTING	DESCRIPTION	NEW
—S—	SANITARY SEWER LINE	—S—
None	SANITARY SEWER JUNCTION BOX	□
None	PROPOSED BRIDGE RETAINING WALL AND COUNTERFORT SYSTEM	▭
—S—	SANITARY SEWER MANHOLE	None
—SS—	STORM SEWER AND MANHOLE	None
—UE—	UNDERGROUND ELECTRIC AND MANHOLE	None
—UT—	UNDERGROUND TELEPHONE AND MANHOLE	None
—W—	WATER LINE WITH FIRE HYDRANT AND VALVE	None
—G—	GAS LINE WITH GAS TEST AND VALVE	None
—WU—	WESTERN UNION LINE AND MANHOLE	None
—	TYPICAL STREET LIGHT STANDARD	None
—	CHAIN LINK FENCE	None
—	CONCRETE CURB	None
—	ASPHALT	None
—	PROPERTY LINE	None

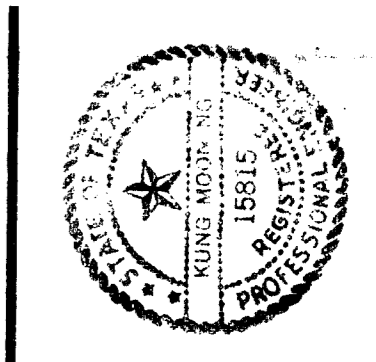
GENERAL NOTES

- ALL UTILITIES, SIGNS, ETC., SHALL BE ADJUSTED BY THEIR RESPECTIVE OWNERS PRIOR TO CONSTRUCTION.
- THE UTILITIES SHOWN ON PLAN SHEETS ARE APPROXIMATE AND FOR INFORMATION ONLY. CAUTION SHALL BE TAKEN AGAINST DAMAGE OF MAIN LINES AND/OR INDIVIDUAL CONNECTIONS TO THE PROPERTY OWNERS. DEPTH OF UTILITY LINE SHALL BE VERIFIED WITH THE RESPECTIVE UTILITY OWNERS INVOLVED.
- WHERE SIDEWALKS, DRIVEWAYS, OR ANY EXISTING STRUCTURES ARE TO BE REMOVED DUE TO CONSTRUCTION, THESE ITEMS WILL BE REMOVED AND REPLACED AS DIRECTED.
- ALL WASTE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND IT SHALL BE HIS SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE RIGHT-OF-WAY AND TO THE PRIVATE PROPERTY WHERE THE CONTRACTOR HAS THE CONSENT OF THE OWNERS. NO WASTE MATERIAL SHALL BE PLACED IN EXISTING LOWS THAT WILL BLOCK OR ALTER FLOW LIMITS OF EXISTING NATURAL DRAINAGE.
- JUNCTION BOXES, CURBS, SIDEWALKS, AND ALL OTHER CONCRETE STRUCTURES SHALL BE CURED ACCORDING TO "MEMBRANE CURING" IN SECTION - CIVIL WORK.
- ALL CONCRETE AND STEEL QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY. THE PLANS SHOWN HEREIN SHALL NOT BE CONSTRUED AS SHOP OR PLACING DRAWINGS.
- EXISTING SANITARY SEWER SERVICE LATERAL TO SENATE BAR & GRILLE SHALL BE RE-ROUTED AND CONNECTED INTO THE TYPE B SANITARY SEWER STRUCTURE AT STA. 0+27.80.

AS BUILT
DATE: APRIL 20, 1982

LAYOUT PLAN & GENERAL NOTES
SP-13 DJ-3174

ALAMO PLAZA / PASEO DEL RIO PROJECT (UDAG)
SAN ANTONIO, TEXAS
FPC #7857



K.M. Ng & Associates, Inc.
Consulting Engineers
Professional Engineer
San Antonio, Texas 78201

Associated Architects:
C. Carson Architects and Planners, Inc.
220 King Wilshire, Texas 78204
San Antonio, Texas 78204
Raymond F. Steinback, Jr., Architect
110 North Orange Street
San Antonio, Texas 78202
Thompson, Ventulett, Stainback & Associates, Inc.
1100 North Loop West
San Antonio, Texas 78207
Consultants to Raymond F. Steinback, Jr., Architect
K.M.N.

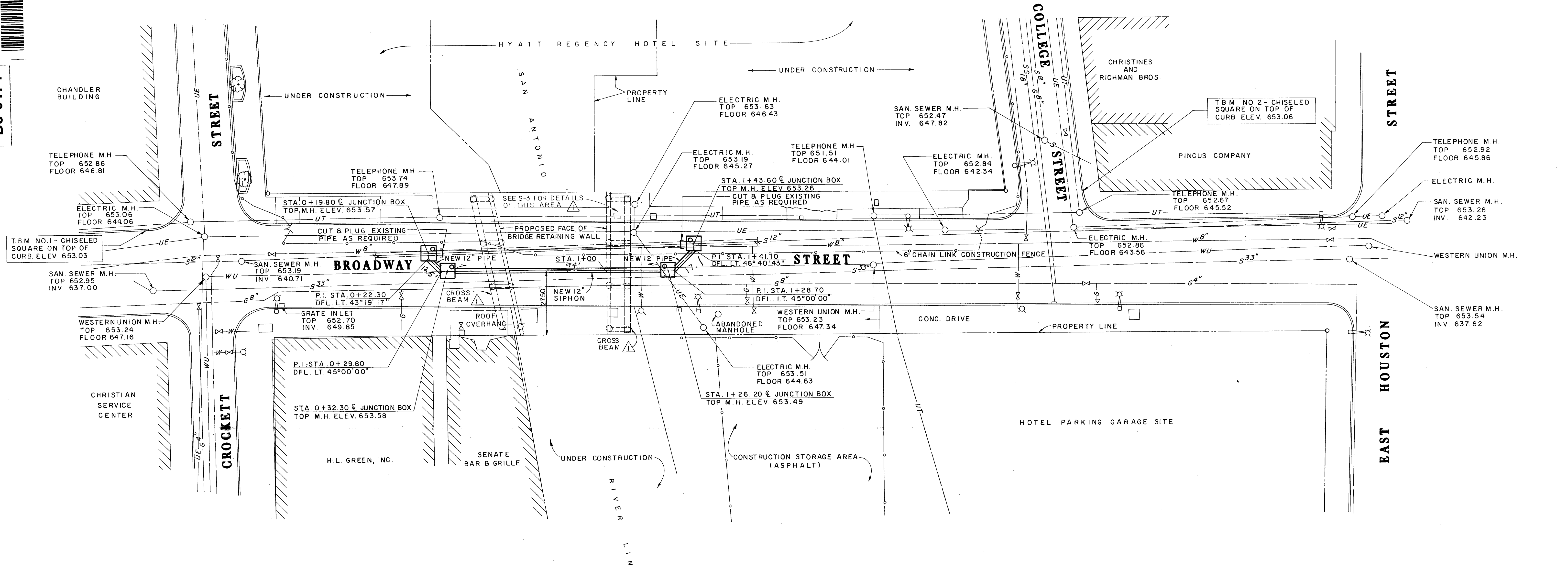
DATE: JUNE 6, 1980
DRAWN: K.M. Ng
A.M.V., E.S.
APPROVED: K.M.N.

REVISIONS:
SEPT. 18, 1980

SHEET NO.
14

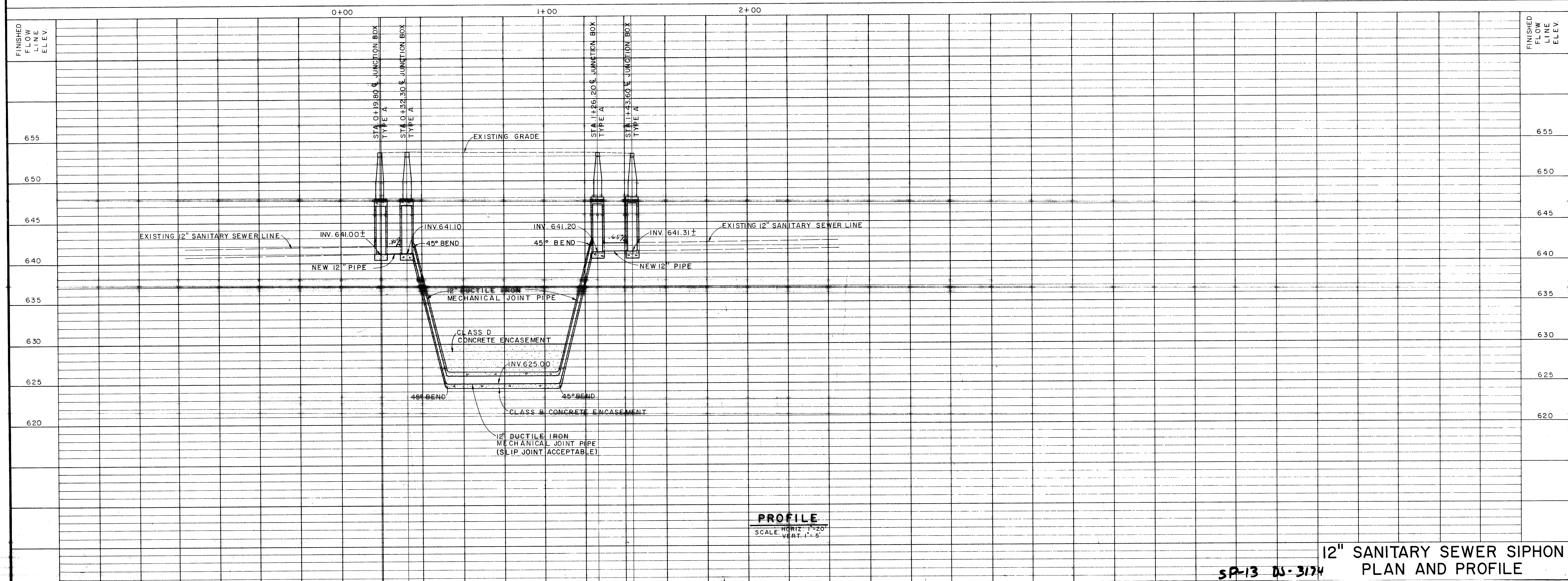
DJ-3174

572868



PLAN
SCALE: 1"=20'

AS BUILT
DATE: APRIL 20, 1982



PROFILE
SCALE: HORIZ. 1"=20'
VERT. 1"=6'

12" SANITARY SEWER SIPHON
PLAN AND PROFILE

SP-13 DS-3174



K.M. Ng & Associates, Inc.
Consulting Engineers
1000 National Bank Building
San Antonio, Texas 78201



Associated Architects:
Ford, Powell & Carson Architects and Planners, Inc.
628 King William Street
San Antonio, Texas 78204
Approved: F. Stambaugh, Jr., Architect
Atlanta, Georgia 30309
K.M.N. & Associates, Inc.
1000 National Bank Building
San Antonio, Texas 78201

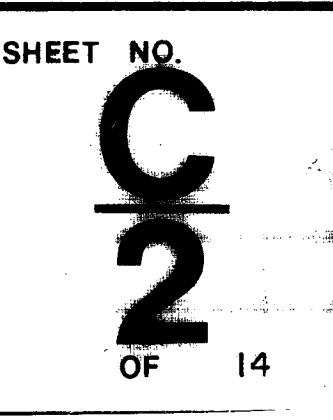
DATE: JUNE 6, 1980
DRAWN: A.M.V., E.S.
APPROVED: K.M.N.

REVISIONS:
SEPT. 19, 1980

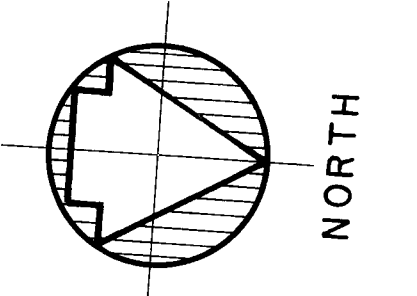
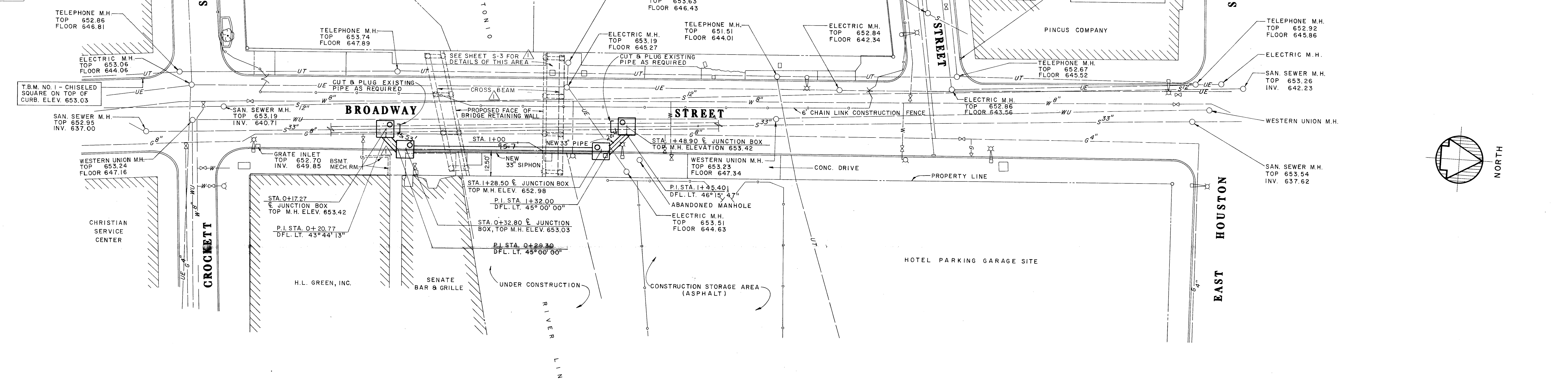
ALAMO PLAZA / PASEO DEL RIO PROJECT (UDAG)

FPC #7857

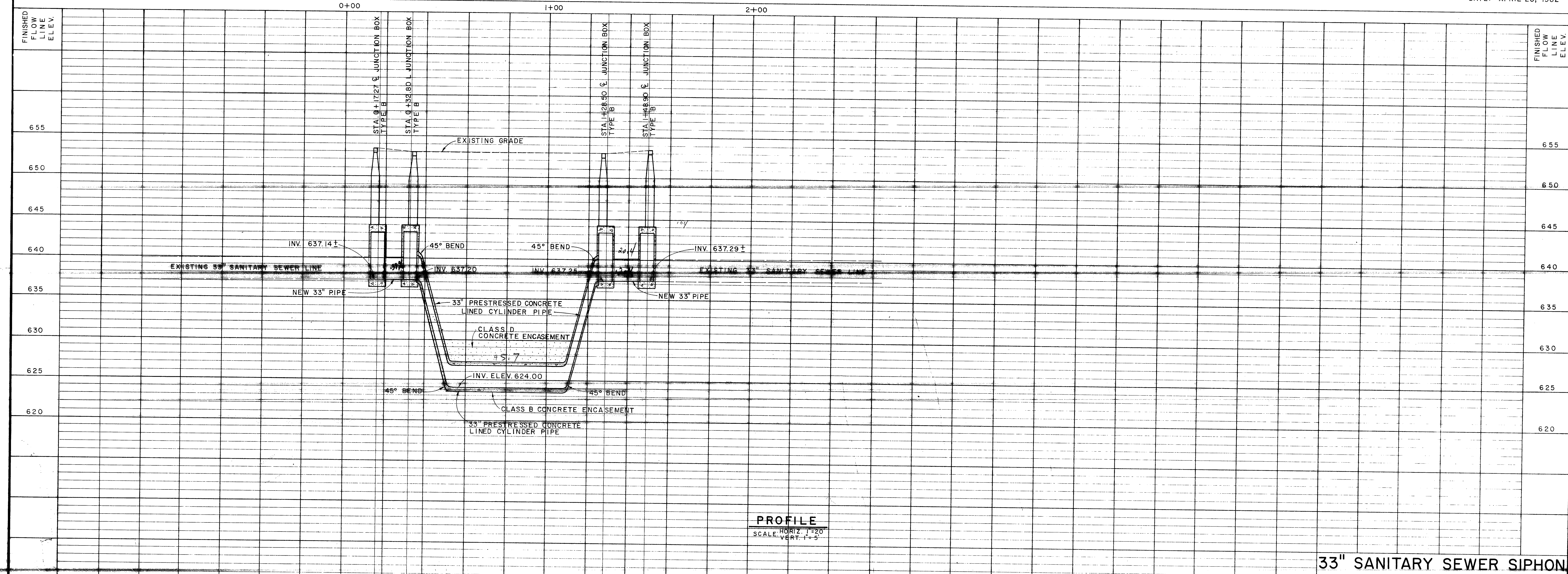
SAN ANTONIO, TEXAS



DJ-3174



AS BUILT
DATE: APRIL 20, 1982



ALAMO PLAZA / PASEO DEL RIO PROJECT (UDAG)

SAN ANTONIO, TEXAS

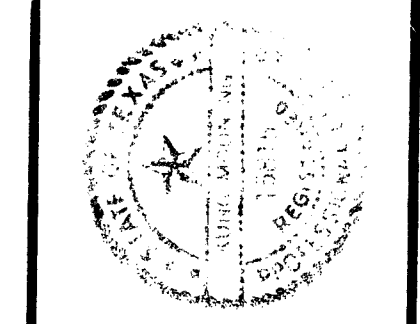
FPC #7857

SHEET NO. 14

REVISIONS:
JUNE 6, 1980
SEPT 19, 1980

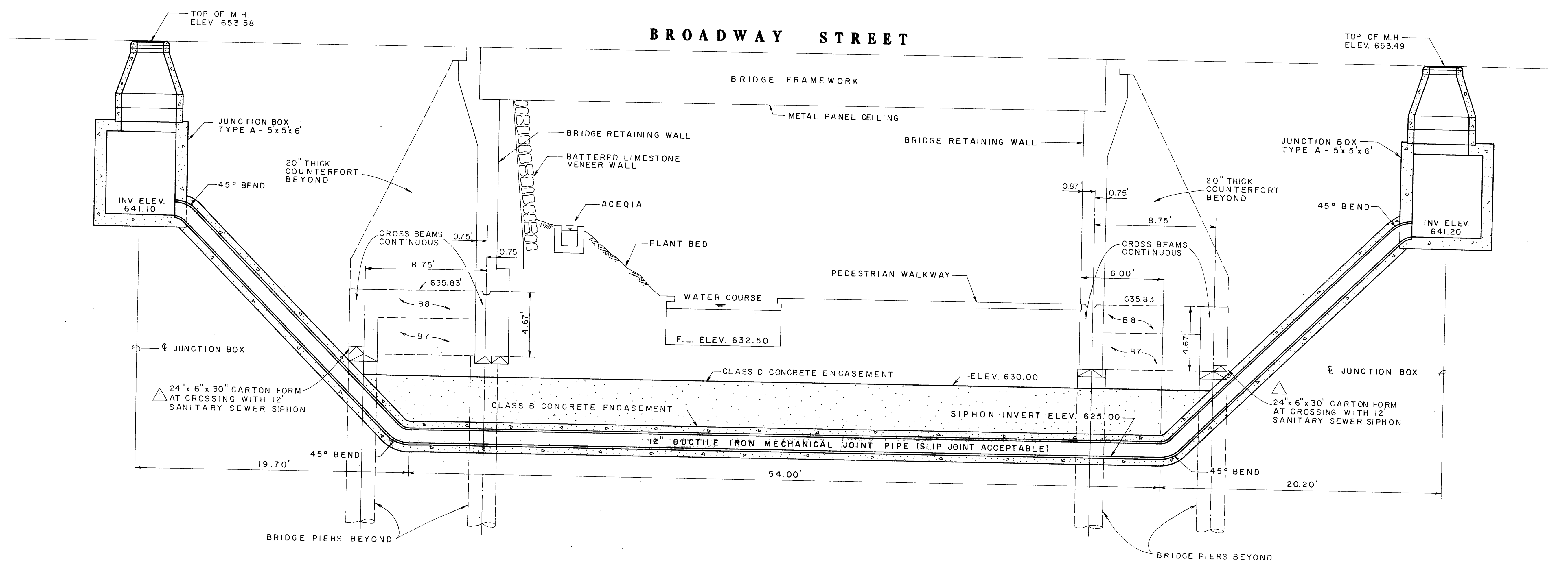
Associated Architects:
Ford, Powell & Carson Architects and Planners, Inc.
228 King William Street
San Antonio, Texas 78204
A.M.V., E.S.
3200 North Omni International
Atlanta, Georgia 30305
Consultants to Raymond F. Staibach, Jr., Architect
K.M.N.

K.M. Ng & Associates, Inc.
Consulting Engineers
First National Bank Tower
San Antonio, Texas 78201

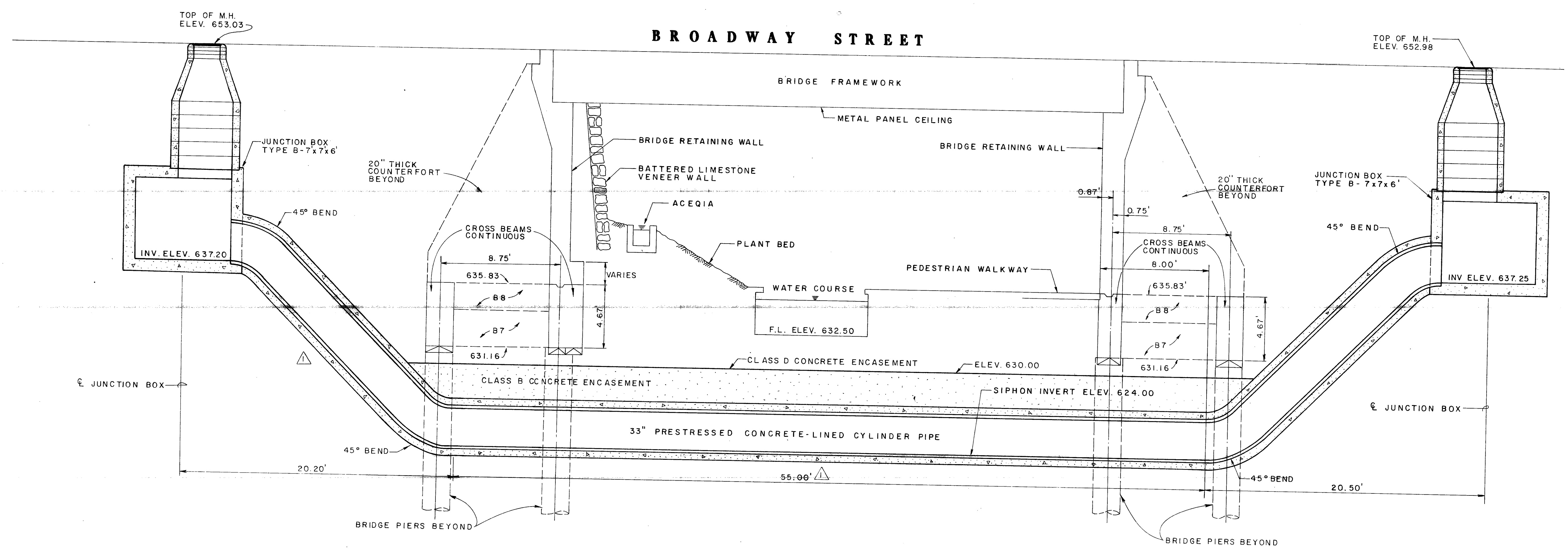


33" SANITARY SEWER SIPHON
SP-13 DJ-3174 PLAN AND PROFILE

DJ-3174



12" SANITARY SEWER SIPHON SECTION (LOOKING WEST)
SCALE: 1"=4'



33" SANITARY SEWER SIPHON SECTION (LOOKING WEST)
SCALE: 1"=4'

NOTE:
BEAMS B7 ARE BENEATH COUNTERFORTS AT COLUMNS AND HAVE A DEPTH OF 4'-8". BEAMS B8 ARE BETWEEN COUNTERFORTS AND HAVE A DEPTH OF 24". SEE SECTION A-13 ON SHEET S-13.

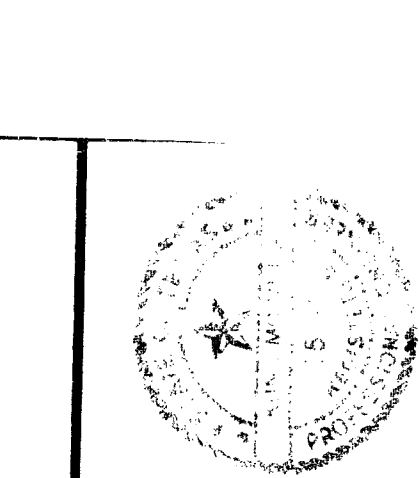
AS BUILT
DATE: APRIL 20, 1982

DJ-3174
SA-13
SEWER SIPHON SECTIONS

ALAMO PLAZA / PASEO DEL RIO PROJECT (UDAG)
SAN ANTONIO, TEXAS

FPC #7857

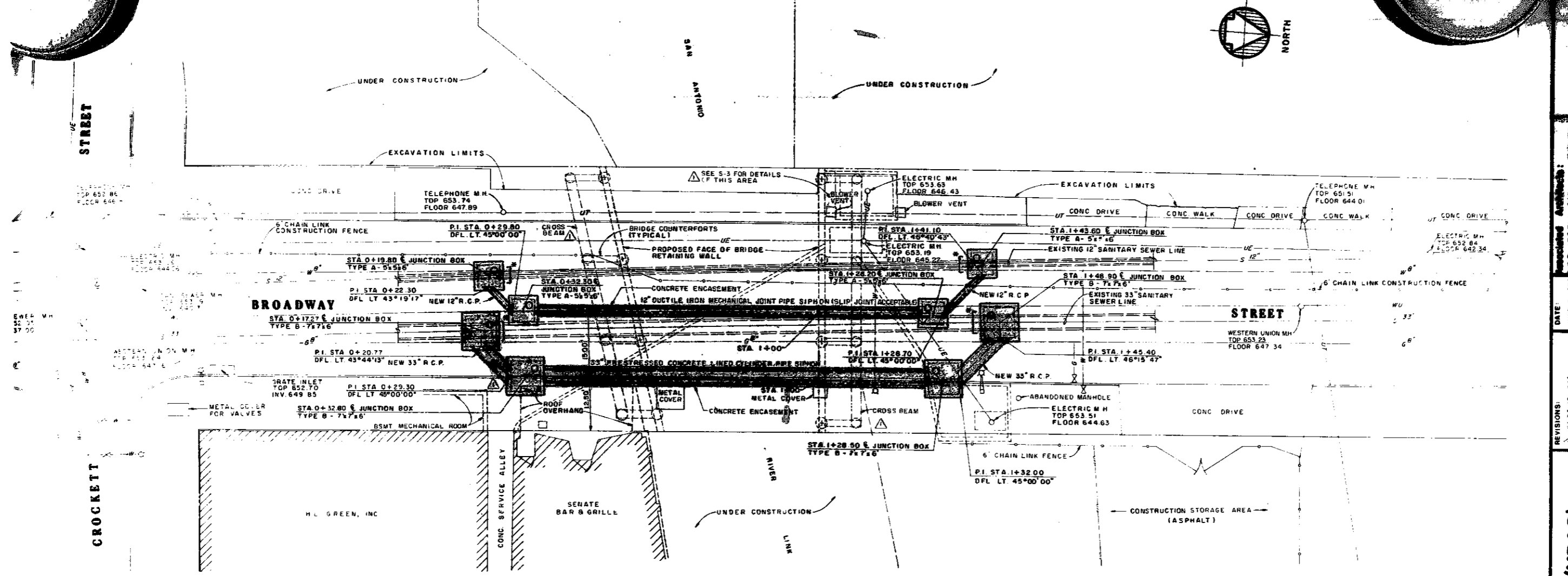
Associated Architects:
Ford, Powell & Carson Architects and Planners, Inc.
San Antonio, Texas
Raymond F. Stanback, Jr., Architect
200 North Omni International
Thompson, Verducci, Stanback & Associates, Inc.
San Antonio, Texas 78271
Consultants to Raymond F. Stanback, Jr., Architect



K.M. Ng & Associates, Inc.
Consulting Engineers
First National Bank Tower
San Antonio, Texas 78271



SHEET NO. 14



LAYOUT PLAN SCALE: 1" = 10'

* DENOTES CUT & PLUG EXISTING PIPE AS REQUIRED.

LEGEND

EXISTING	DESCRIPTION	NEW
-S-12"	SANITARY SEWER LINE	
NONE	SANITARY SEWER JUNCTION BOX	
NONE	PROPOSED BRIDGE RETAINING WALL AND COUNTERFORT SYSTEM	
-O-S-	SANITARY SEWER MANHOLE	NONE
-O-SS-	STORM SEWER AND MANHOLE	NONE
-O-UE-	UNDERGROUND ELECTRIC AND MANHOLE	NONE
-O-UT-	UNDERGROUND TELEPHONE AND MANHOLE	NONE
-W-O-V-	WATER LINE WITH FIRE HYDRANT AND VALVE	NONE
-G-O-V-	GAS LINE WITH GAS TEST AND VALVE	NONE
-WU-O-	WESTERN UNION LINE AND MANHOLE	NONE
	TYPICAL STREET LIGHT STANDARD	NONE
-C-L-F-	CHAIN LINK FENCE	NONE
-C-C-	CONCRETE CURB	NONE
-A-	ASPHALT	NONE
-P-L-	PROPERTY LINE	NONE

GENERAL NOTES

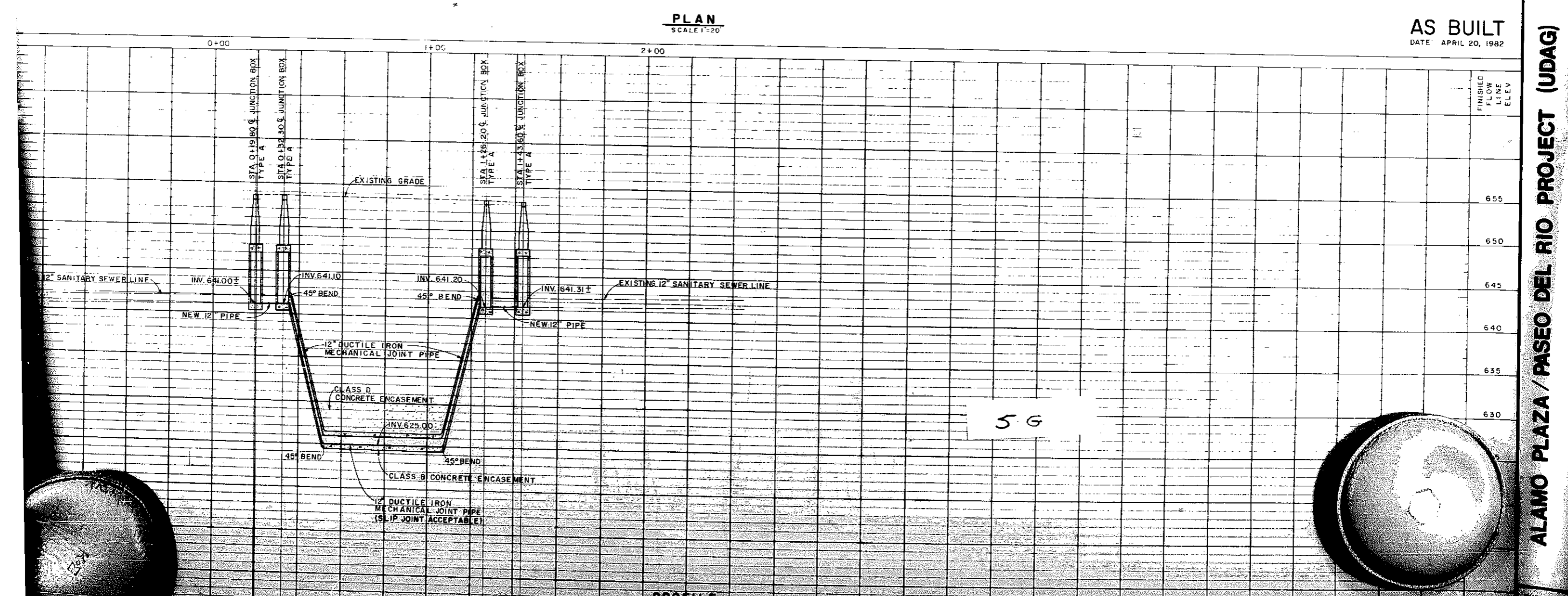
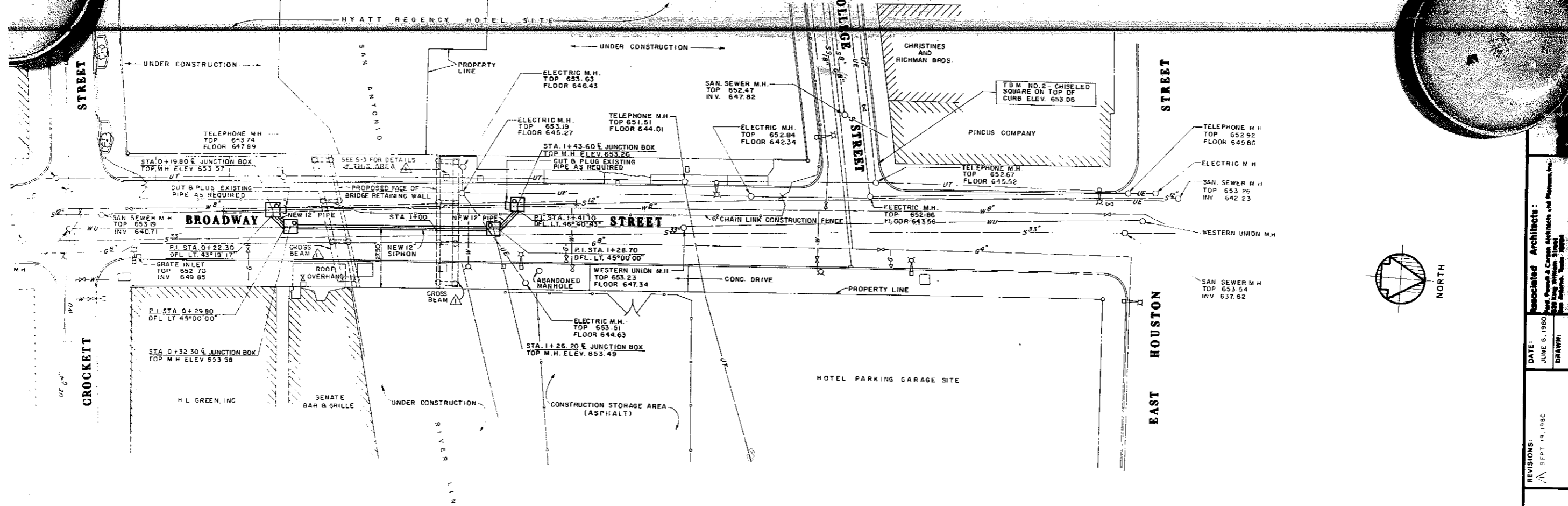
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6. ALL CONCRETE AND STEEL QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY. THE PLANS SHOWN HEREIN SHALL BE CONSTRUED AS SHOP OR PLACING DRAWINGS.
7. EXISTING SANITARY SEWER SERVICE LATERAL TO SENATE BAR & GRILLE SHALL BE RE-ROUTED AND CONNECTED INTO THE TYPE B SANITARY SEWER STRUCTURE AT STA 0+27.00.

/ PASEO DEL RIO PROJECT (UDAG)

AS BUILT
DATE: APRIL 20, 1992

56

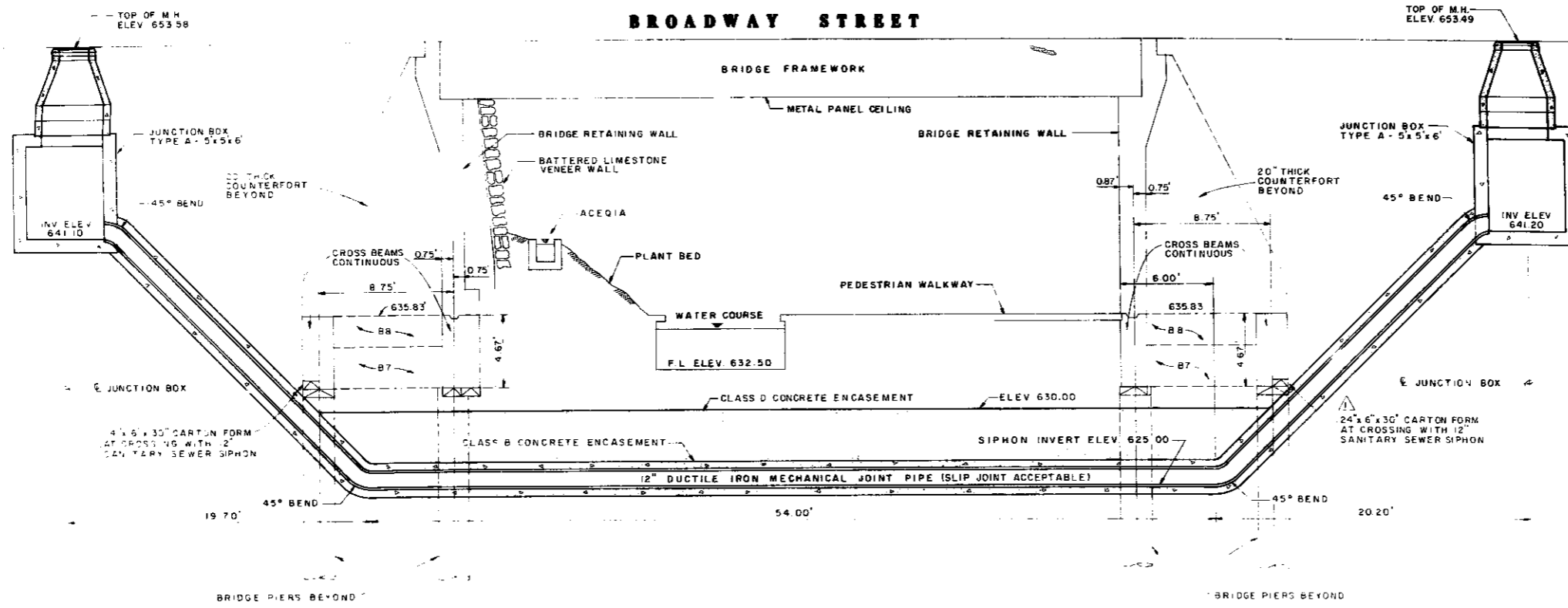
DATE: JUNE 6, 1992
DRAWN: A.M.V. E.S.
REVISIONS: PART 10, INC.



Associated Architects:
June 6, 1980
DATE:
DRAWN:
A.N.V., E.S.

REVISIONS:
SEPT 19, 1980

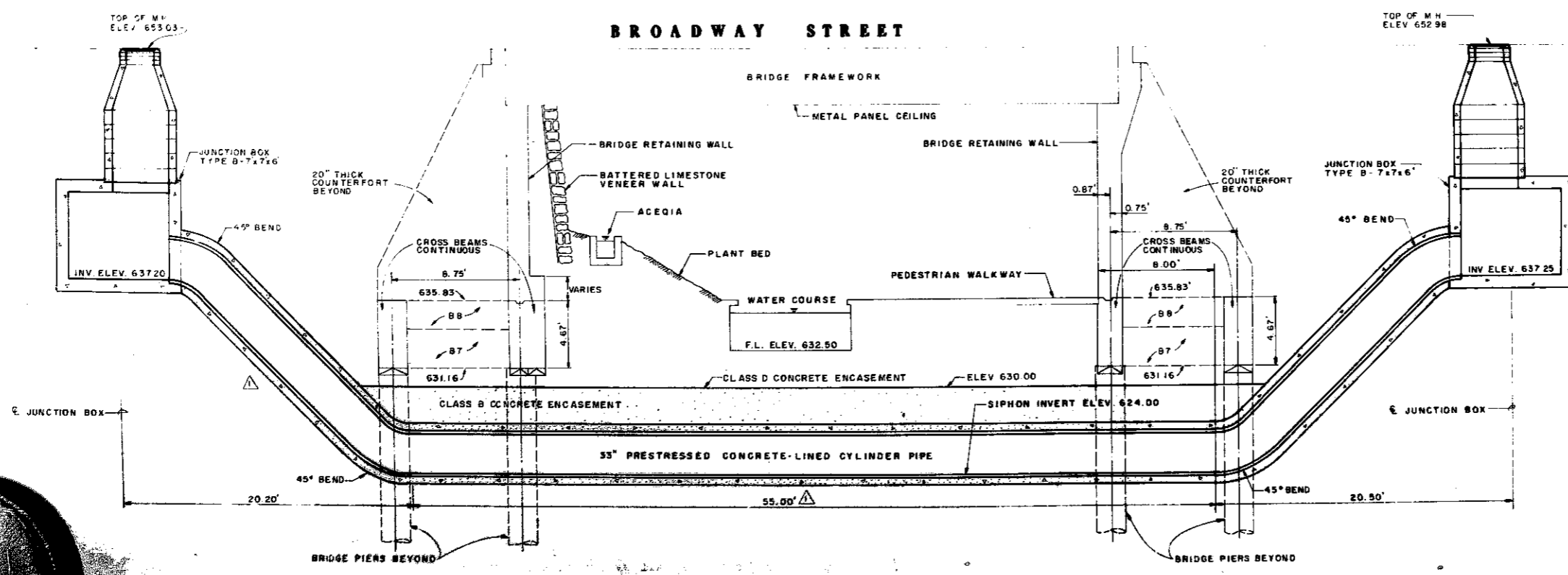
ALAMO PLAZA / PASEO DEL RIO PROJECT (UDAG)



12" SANITARY SEWER SIPHON SECTION
(LOOKING WEST) SCALE 1"=4'

SEE NOTE BELOW FOR B7 & B8 BEAMS

NOTE
BEAMS B7 ARE BENEATH COUNTERFORTS AT COLUMNS AND HAVE A DEPTH OF 4'-8". BEAMS B8 ARE BETWEEN COUNTERFORTS AND HAVE A DEPTH OF 24". SEE SECTION A-13 ON SHEET 5-13



33" SANITARY SEWER SIPHON SECTION
(LOOKING WEST) SCALE 1"=4'

56

AS BUILT
DATE: APRIL 20, 1982

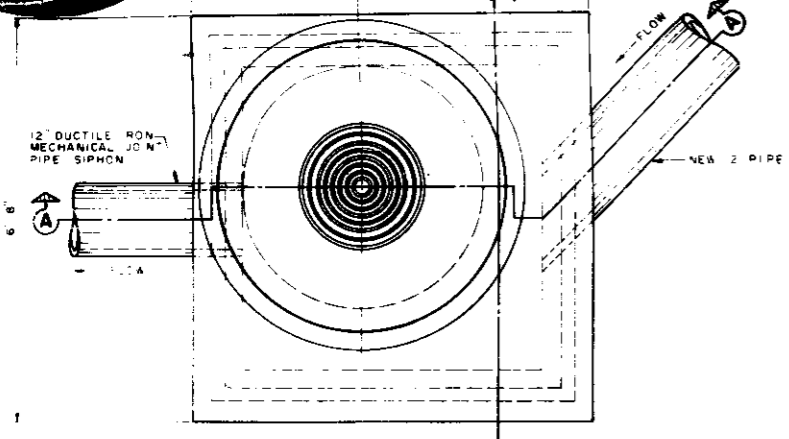
Associated Architects:
Paul Powell & Company Architects and Planners, Inc.
1000 West 10th Street
Anchorage, Alaska 99501

DATE: JUNE 6, 1980
DRAWN: A.M.V., E.S.
APPROVED: K.M.N.

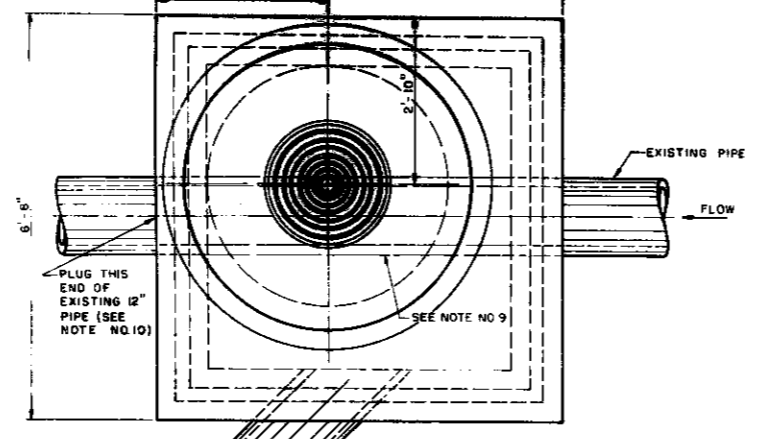
REVISIONS:

PROJECT: PASO DEL RIO PROJECT (UDAG)

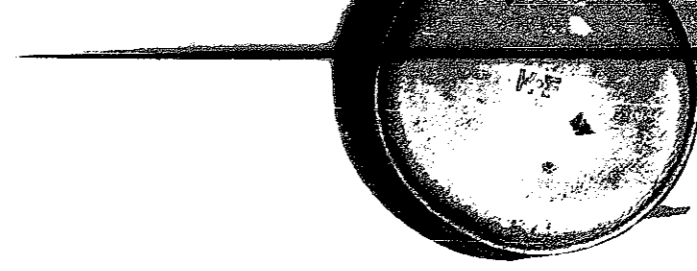
FPC #7857



PLAN
SCALE: 3/4" = 1'-0"



PLAN
SCALE: 3/4" = 1'-0"

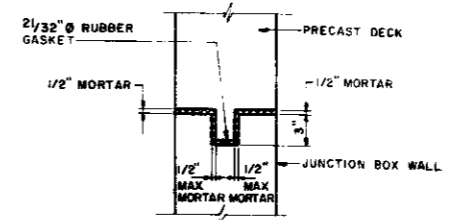


	A1	14	#4	12" O.C.	8'-8"	70
	C	76	#6	4" O.C.	9'-6 1/2"	1089
	D	24	#3	AS SHOWN	7'-4"	66
	E	24	#3	AS SHOWN	6'-4"	57
STRAIGHT	G	12	#6	AS SHOWN	6'-0"	108
STRAIGHT	H	12	#3	AS SHOWN	6"	2
TOTAL WEIGHT						2230 LBS.

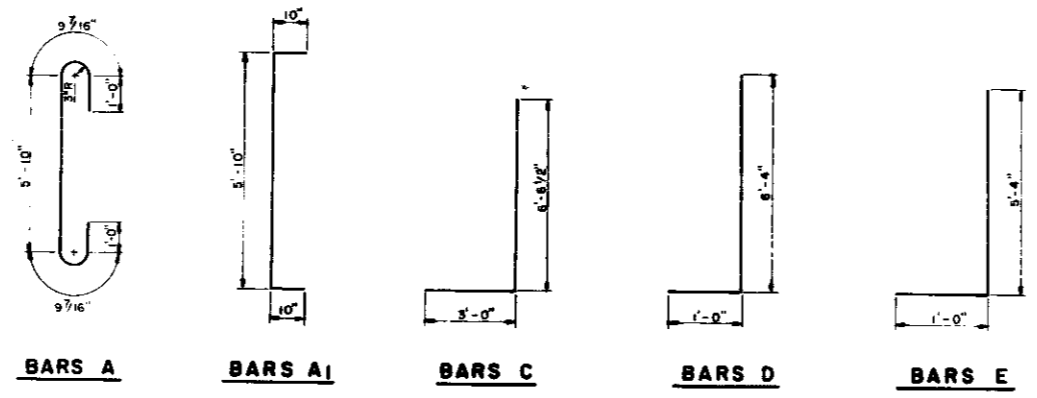
TOTAL CLASS "A" CONCRETE 5.53 CV
NOTE: REINFORCING STEEL AND CONC QUANTITIES DO NOT EXCLUDE MANHOLE OR REINFORCED CONC PIPE OPENINGS

GENERAL NOTES

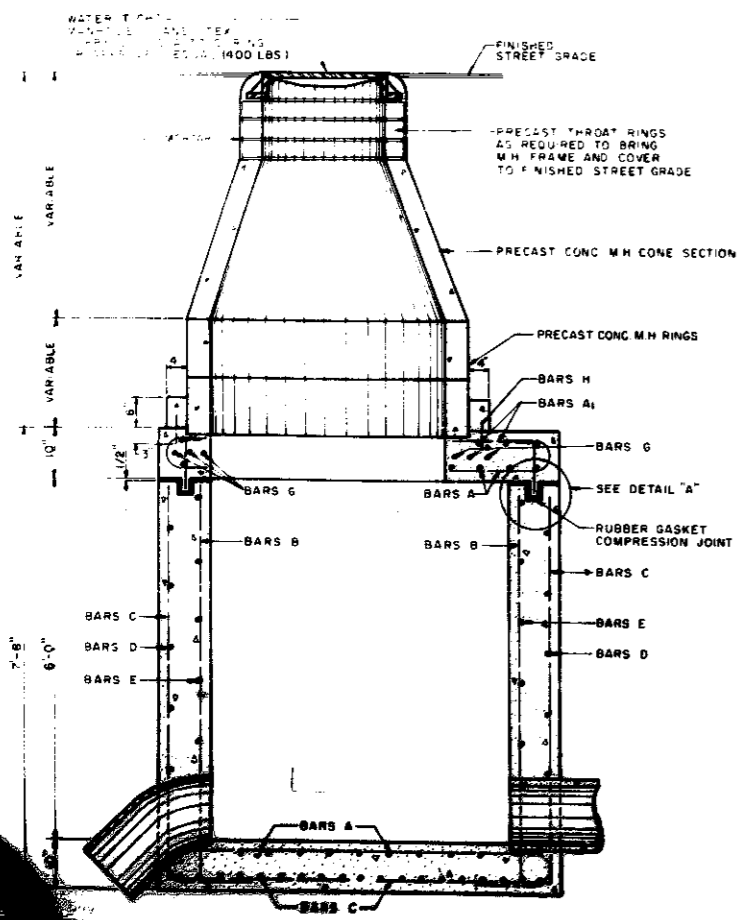
1. CONCRETE FOR STRUCTURES SHALL BE CLASS "A" CONCRETE, 3000 P.S.I. IN 28 DAYS.
2. ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4"
3. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 40.
4. ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
5. ALL BARS INTERCEPTING MANHOLE AND REINFORCED CONCRETE PIPE OPENINGS SHALL BE FIELD CUT.
6. WHERE LAPPING OF BARS IS REQUIRED A MIN LAP OF 33 DIA SHALL BE USED.
7. WHERE JUNCTION BOX IS USED FOR ALIGNMENT CHANGE, PLACE CONCRETE FILL (2500 P.S.I. MIN) WITH CURVED RADIUS UP TO SPRING LINE OF INFLOWING PIPE.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSURE THE SAFE HOISTING OF THE PRECAST DECK BY PLACING ADDITIONAL REINFORCING STEEL AND LIFTING EYE STRAPS AS REQUIRED.
9. CONTRACTOR SHALL BREAK AND REMOVE EXISTING PIPE WITHIN WET-TAP JUNCTION BOX. TO INVERT OF STRUCTURE EXISTING PIPE SHALL BE CUT AND PLUGGED AS REQUIRED WHERE SHOWN ON THE PLANS. JACKET EDGES CREATED ON THE INSIDE WALLS OF THE STRUCTURE, WHERE THE EXISTING PIPE WAS REMOVED, SHALL BE GROUTED AS REQUIRED AND/OR AS DIRECTED BY THE INSPECTOR.
10. CONCRETE PLUG FOR EXISTING 12" SANITARY SEWER LINE SHALL BE A MINIMUM OF ONE FOOT INTO PIPE. EXISTING 12" PIPE MUST BE REMOVED A MINIMUM OF THREE FEET BEYOND CONCRETE PLUG.



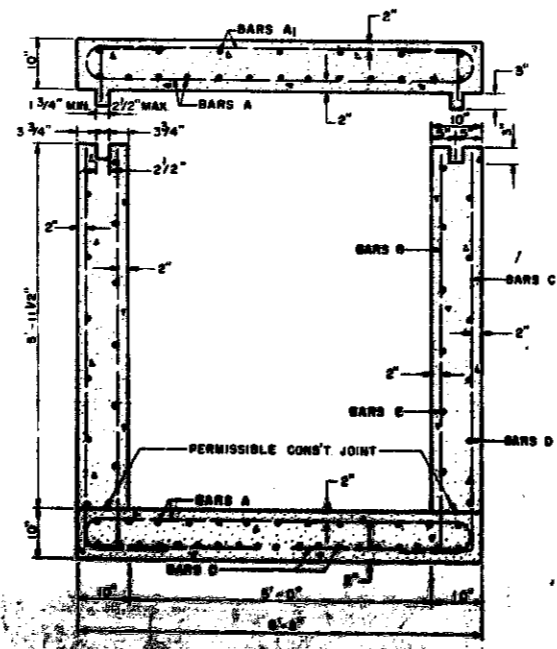
DETAIL "A"
NO SCALE



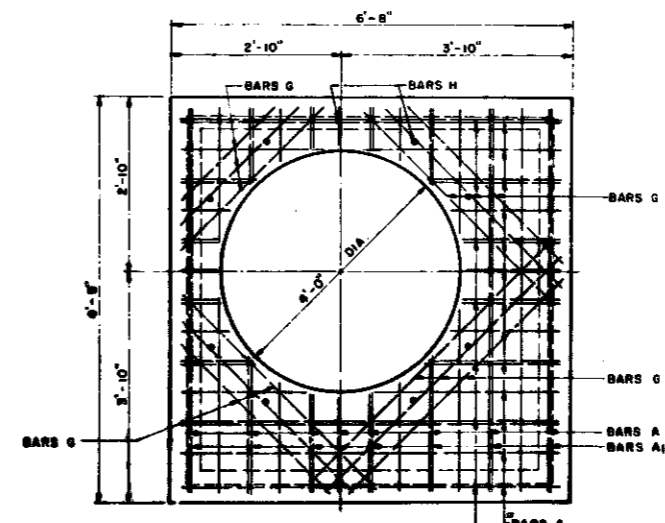
BAR BEND DIAGRAMS
NO SCALE



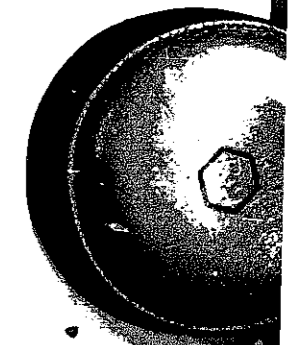
SECTION "A-A"



SECTION "B-B"

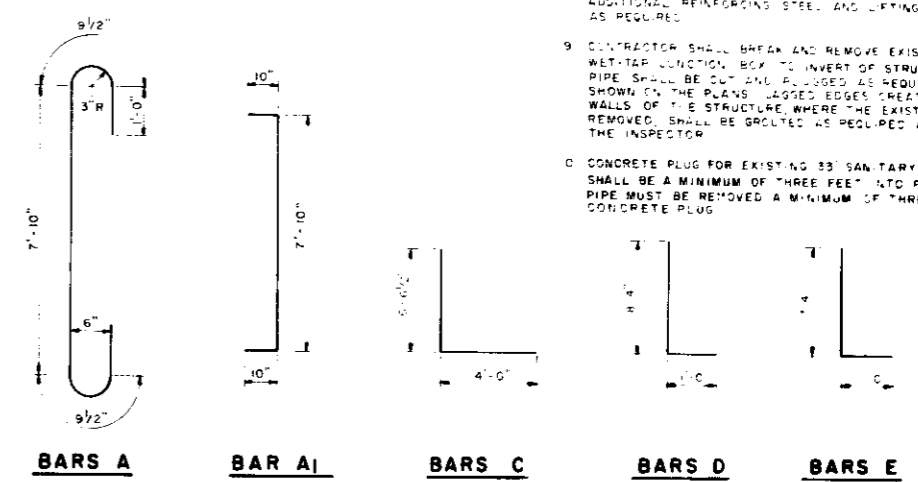
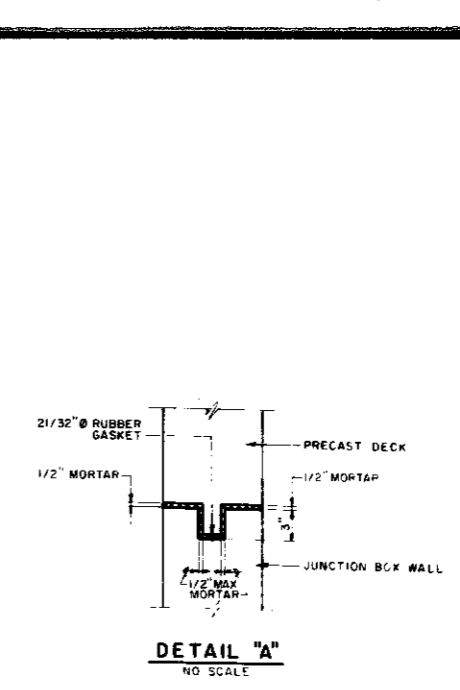
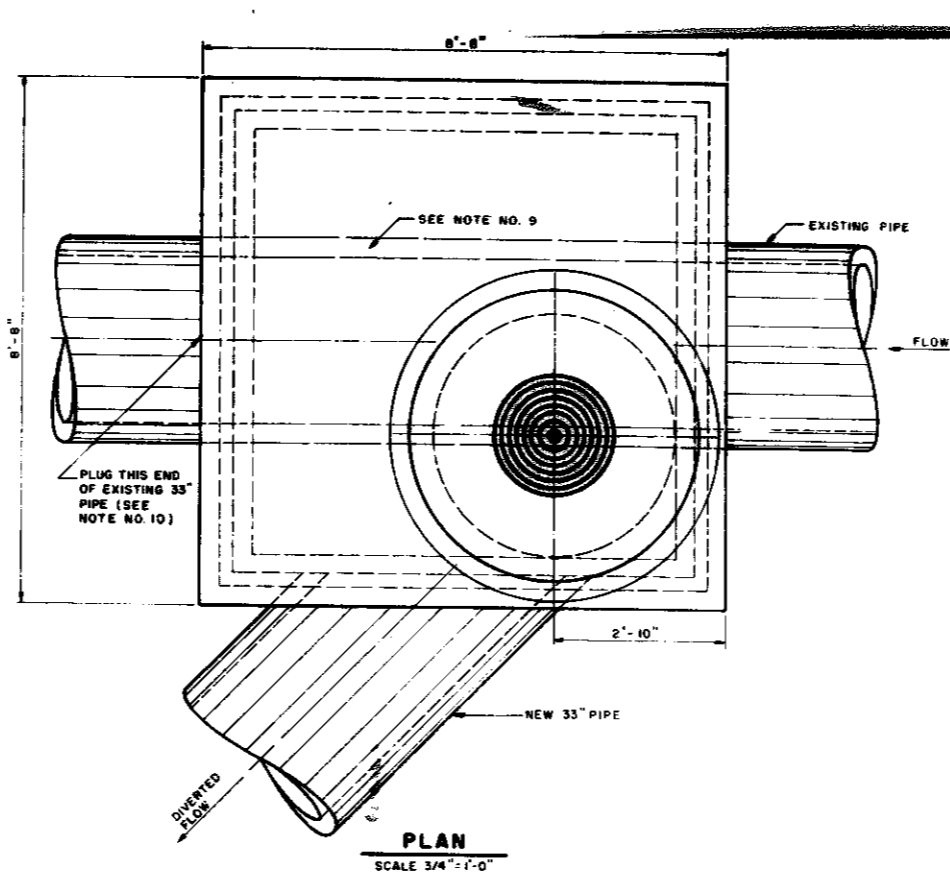
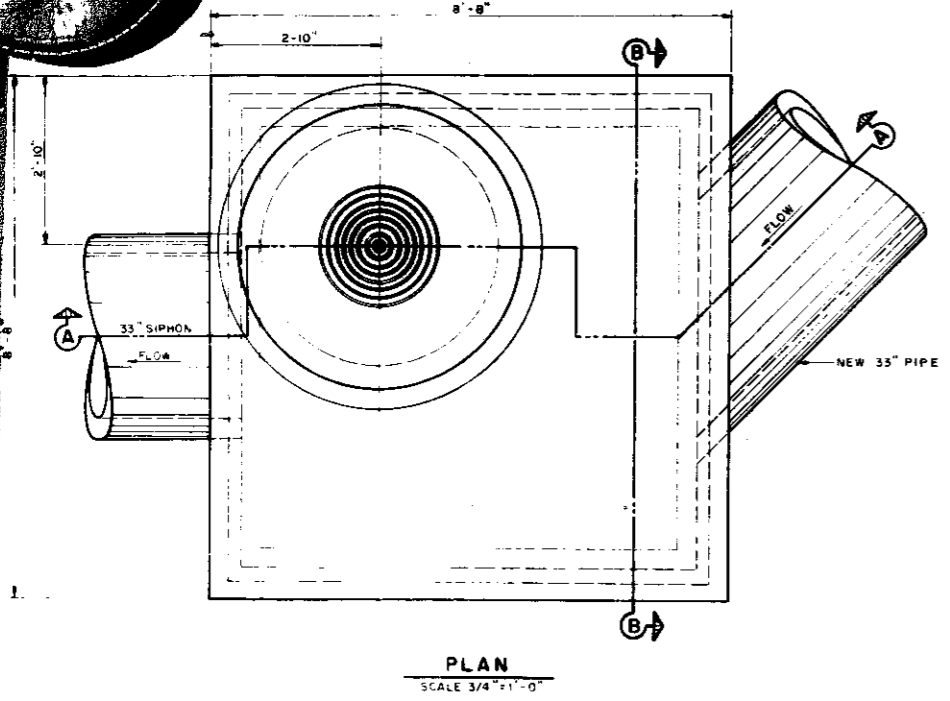


PLAN
TOP SLAB STEEL
SCALE: 3/4" = 1'-0"

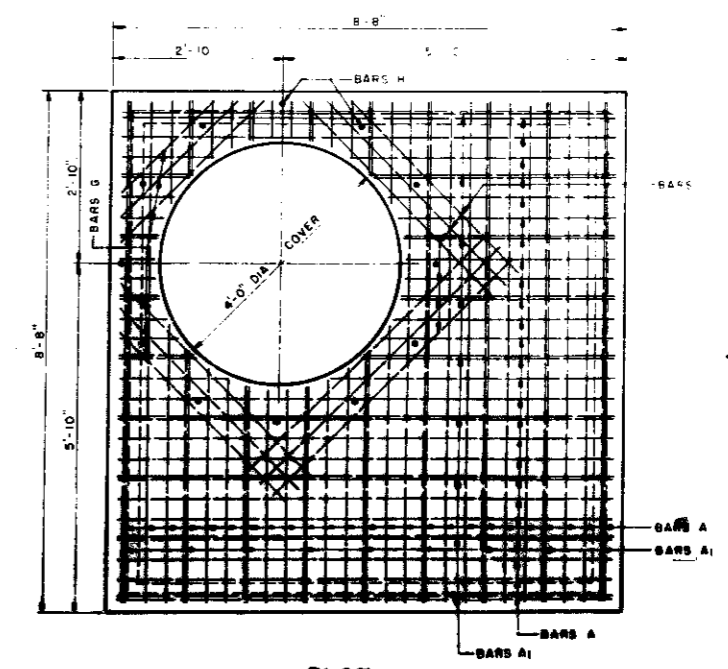
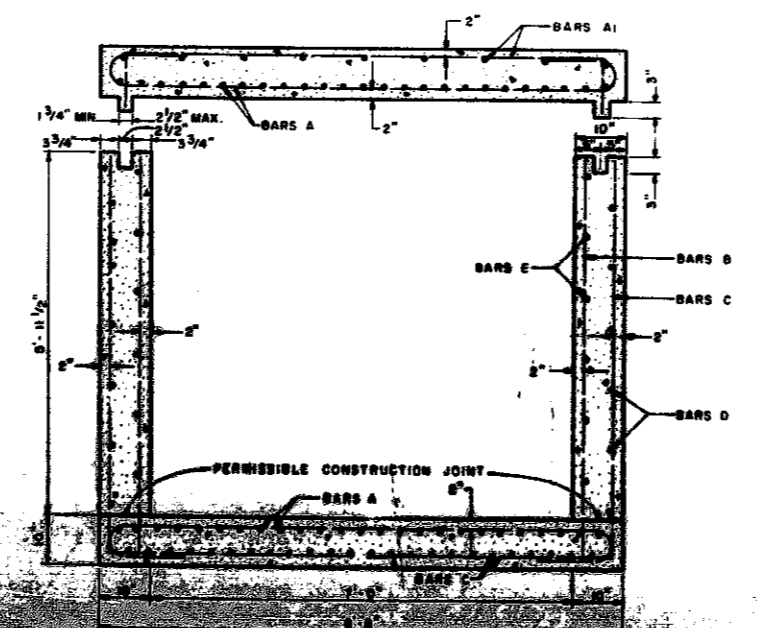
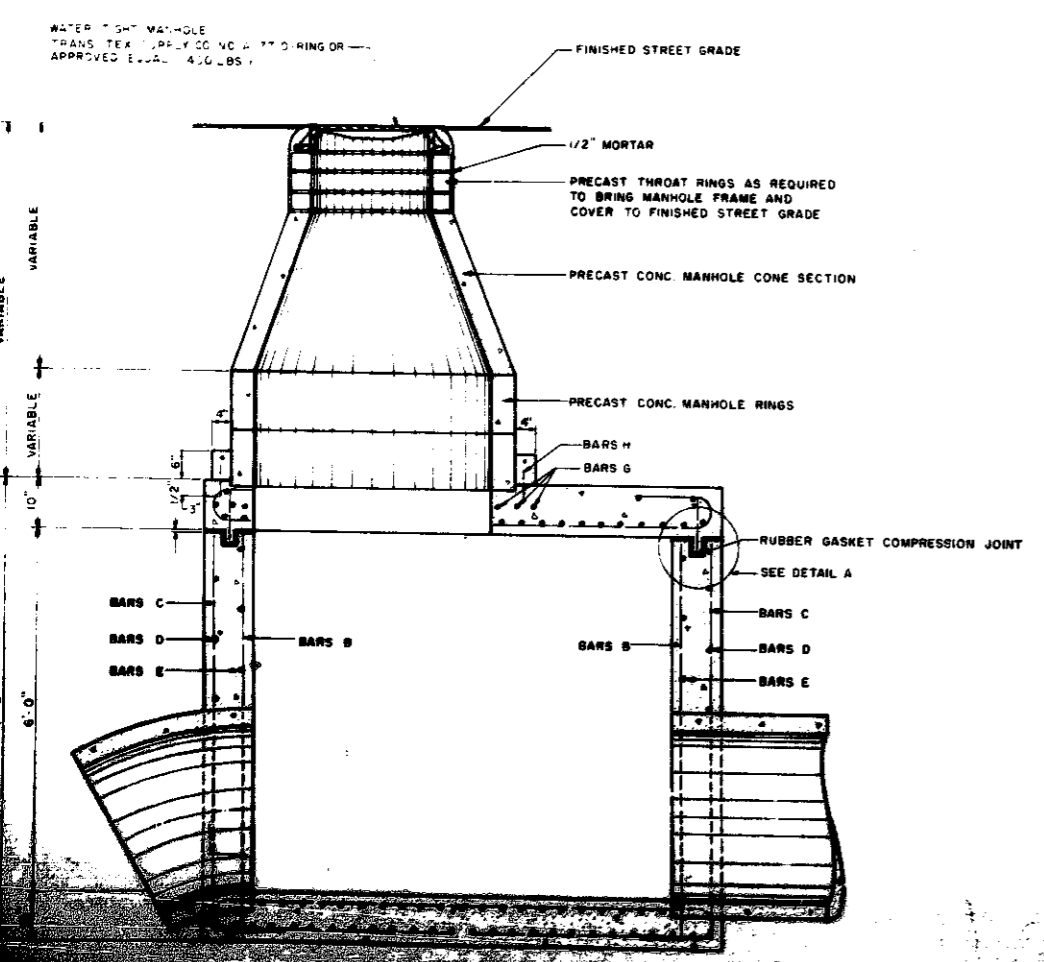


AS BU
DATE: APRIL

JUNCTION BOX DET



BAR BEND DIAGRAMS
NO SCALE



STRAIGHT	A1	19	12" OC	6'
B	32	#4	12" OC	6'
C	96	#6	4" OC	10' 6 1/2"
D	24	#4	12" OC	9' 4"
E	24	#4	12" OC	8' 4"
G	12	#6	AS SHOWN	6'-0"
H	12	#3	AS SHOWN	6'
TOTAL WEIGHT				3809 LBS
TOTAL CLASS "A" CONCRETE				10.45 CU YDS

NOTE
REINFORCING STEEL AND CONC. QUANTITIES DO NOT INCLUDE MANHOLE OR REINFORCED CONC. PIPE OPENINGS

GENERAL NOTES

1. CONCRETE FOR STRUCTURES SHALL BE CLASS "A" CONCRETE 3000 P.S.I. IN 28 DAYS.
2. ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4".
3. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GR. 60.
4. ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
5. ALL BARS INTERCEPTING MANHOLE AND REINFORCED CONCRETE PIPE OPENINGS SHALL BE FIELD CUT.
6. WHERE LAPPING OF BARS IS REQUIRED A MIN. LAP OF 48 BAR DIAM. SHALL BE USED.
7. WHERE JUNCTION BOX IS USED FOR ALIGNMENT CHANGE PLACE CONCRETE FILL 1250 PSI STRENGTH WITH CURVE RADIUS UP TO SPRING LINE OF INFLOWING PIPE.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSURE THE SAFE HOISTING OF THE PRECAST DECK BY PLACING ADDITIONAL REINFORCING STEEL AND LIFTING EYE STRAPS AS REQUIRED.
9. CONTRACTOR SHALL BREAK AND REMOVE EXISTING PIPE. WET-TAP JUNCTION BOX TO INVERT OF STRUCTURE. EXISTING PIPE SHALL BE CUT AND PLUGGED AS REQUIRED. WHEN SHOWN ON THE PLANS, JAGGED EDGES CREATED ON THE WALLS OF THE STRUCTURE, WHERE THE EXISTING PIPE IS REMOVED, SHALL BE GROUTED AS REQUIRED AND OR AS THE INSPECTOR.
10. CONCRETE PLUG FOR EXISTING 33" SANITARY SEWER LINE SHALL BE A MINIMUM OF THREE FEET L.T.O. PIPE. EXISTING PIPE MUST BE REMOVED A MINIMUM OF THREE FEET FROM CONCRETE PLUG.

56

AS BUILT