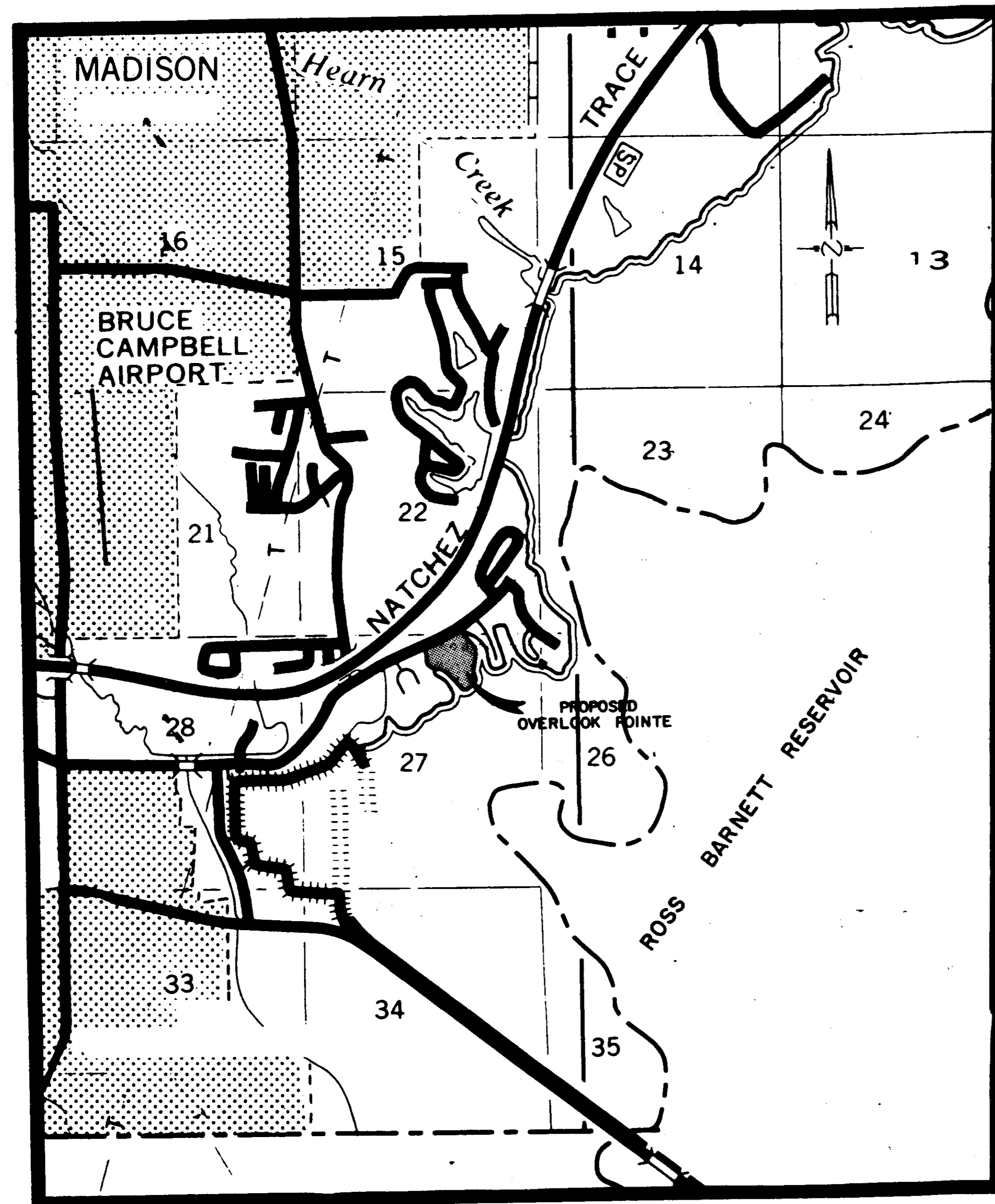


# OVERLOOK POINTE

OVERLOOK POINTE



VICINITY MAP

SCALE: 1" = 2000'

OWNER AND DEVELOPER:

**OVERLOOK POINTE**  
**MANAGING PARTNER, RAYFORD R. HUDSON, III**  
 6295 OLD CANTON ROAD  
 JACKSON, MISS. 39211-2999  
 TELEPHONE: 601-956-2664

CONTENTS

<u>SHEET</u>	<u>DESCRIPTION</u>
1	FRONT SHEET
2	LOT LAYOUT AND DRAINAGE
3	WATER AND SEWER LAYOUT
4-7	PLAN & PROFILE SHEET
8	WASTEWATER PUMPING STATION DETAIL SHEET
9	CONSTRUCTION DETAILS FOR WATER DISTRIBUTION SYSTEM
10	CONSTRUCTION DETAILS FOR SEWER APPURTENANCES
11	STANDARD STORM SEWER APPURTENANCES

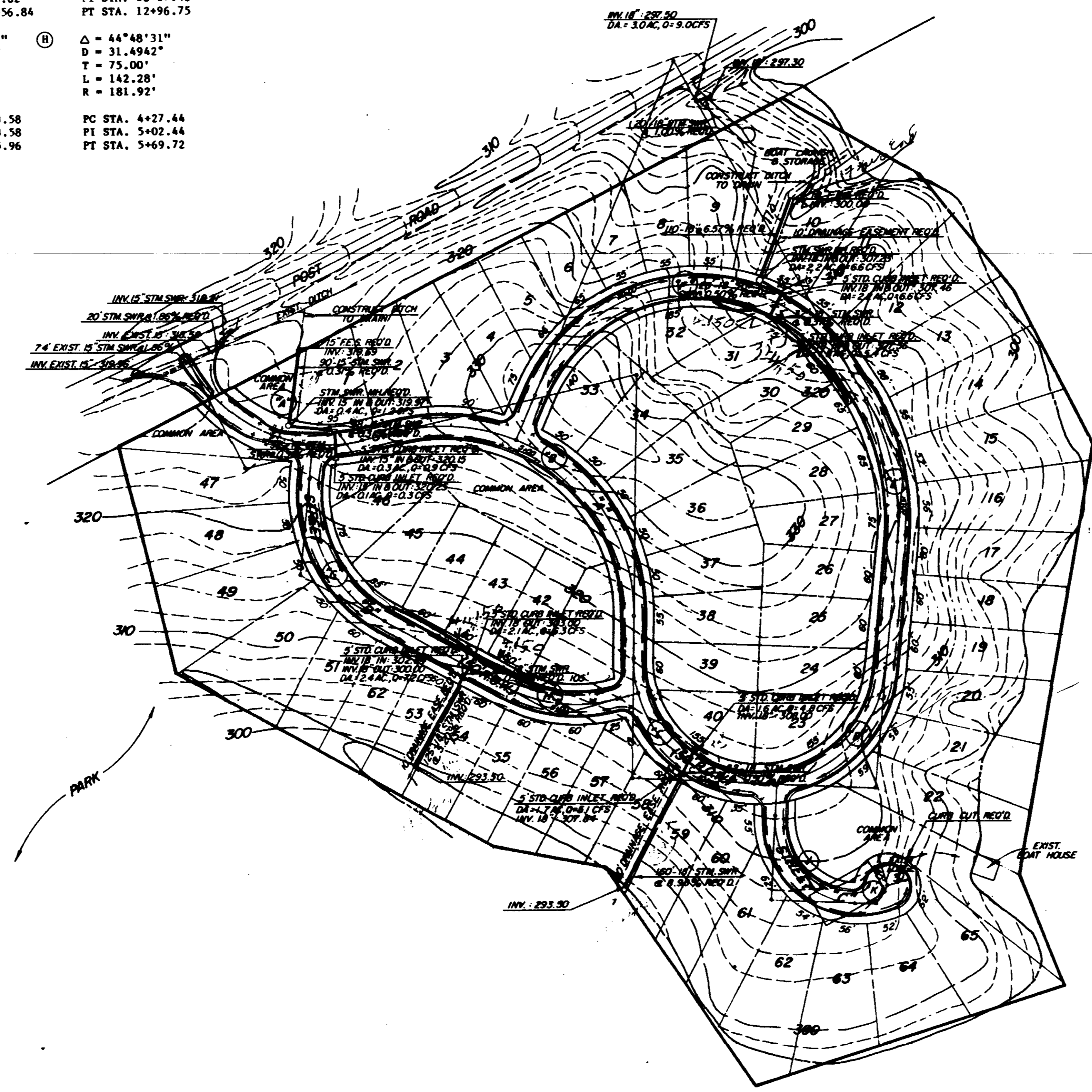
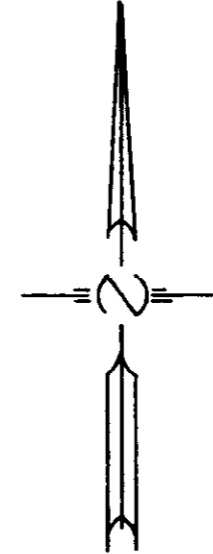
PWP-1521

**LESTER ENGINEERING CO.**  
**JACKSON, MISSISSIPPI**

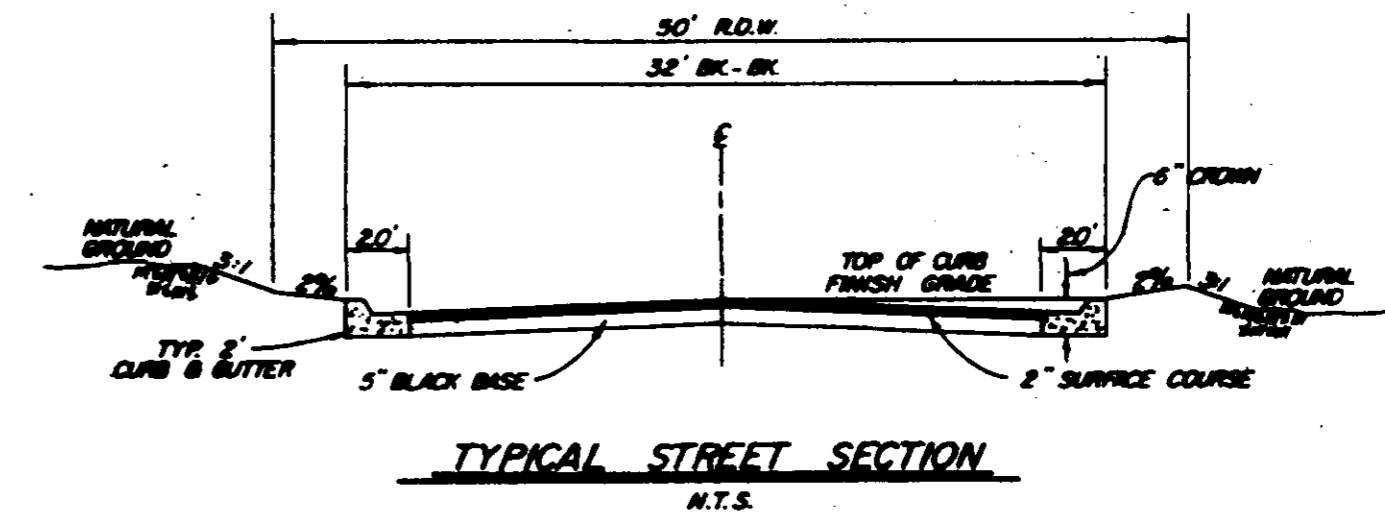
CURVE DATA			
<p><b>A</b> Δ = 78°23'01" D = 31.7794' T = 147.00' L = 246.65' R = 180.29'</p> <p>PC STA. 0+29.15 PI STA. 1+76.15 PT STA. 2+75.80</p>	<p><b>B</b> Δ = 104°00'47" D = 24.458' T = 300.00' L = 425.40' R = 234.33'</p> <p>PC STA. 3+38.42 PI STA. 6+38.42 PT STA. 7+63.82</p>	<p><b>C</b> Δ = 87°56'40" D = 36.6992' T = 150.62' L = 239.64' R = 156.12'</p> <p>PC STA. 8+17.20 PI STA. 9+67.82 PCC STA. 10+56.84</p>	<p><b>D</b> Δ = 87°45'15" D = 36.5775' T = 150.62' L = 239.91' R = 156.62'</p> <p>PCC STA. 10+56.84 PI STA. 12+07.46 PT STA. 12+96.75</p>
<p><b>E</b> Δ = 34°16'26" D = 18.5968' T = 95.00' L = 184.30' R = 308.10'</p> <p>PC STA. 14+56.40 PI STA. 15+31.40 PT STA. 16.40.70</p>	<p><b>F</b> Δ = 128°18'16" D = 26.2541' T = 450.48' L = 488.70' R = 218.24'</p> <p>PC STA. 16+75.70 PI STA. 21+26.18 PT STA. 21+64.40</p>	<p><b>G</b> Δ = 66°33'47" D = 31.3415' T = 120.00' L = 212.38' R = 182.81'</p> <p>PC STA. 0+43.58 PI STA. 1+63.58 PT STA. 2+55.96</p>	<p><b>H</b> Δ = 44°48'31" D = 31.4942' T = 75.00' L = 142.28' R = 181.92'</p> <p>PC STA. 4+27.44 PI STA. 5+02.44 PT STA. 5+69.72</p>
<p><b>I</b> Δ = 90°00'00" D = 54.5674' T = 105.00' L = 164.93' R = 105.00'</p> <p>PC STA. 0+35 PI STA. 1+40 PCC STA. 1+99.93</p>	<p><b>J</b> Δ = 55°07'36" D = 115.0263' T = 26.00' L = 47.92' R = 49.81'</p> <p>PCC STA. 1+99.93 PI STA. 2+25.93 PT STA. 2+47.85</p>		

NO. 645  
B.M. ELEVATION 2 323.05  
NAIL IN ROOT 18" CHERRY  
35' LT. STA. 2+25 ON ST. "A"

NO. 644  
B.M. ELEVATION 2 313.88  
NAIL IN ROOT 36" PINE  
70' RT. STA. 11+50 ON ST. "A"



- NOTES FOR STREET AND STORM DRAINAGE CONSTRUCTION**
1. Lot dimensions are subject to minor adjustments.
  2. Materials and construction shall conform to the appropriate section and subsection of the Mississippi Standard Specifications for Road and Bridge Construction and the Mississippi State Highway Department Design Manual or the Contract Documents and Specifications for Over Look Points.
  3. Storm sewers shall be ASTM C-76 reinforced concrete pipe and joined with ASTM C-443 40" ring rubber gaskets.
  4. The radius at street intersections shall be a minimum of 20 feet.

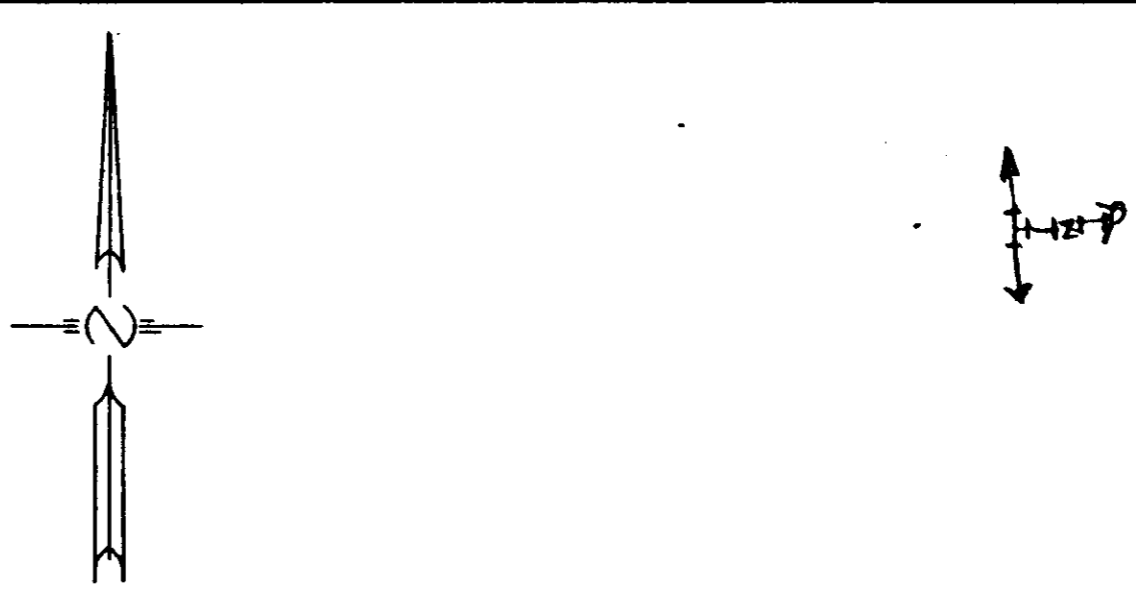
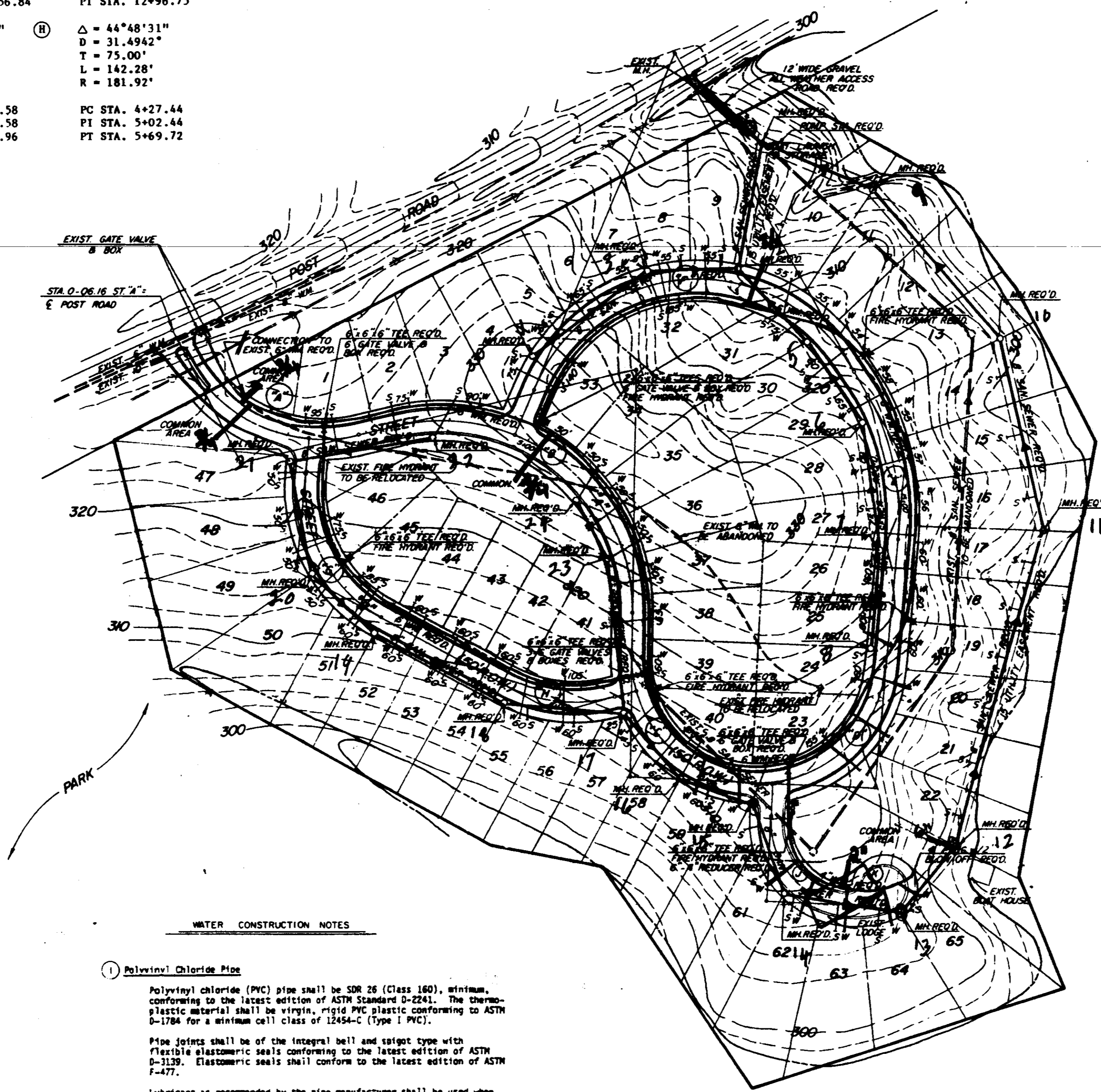


DESIGNED:	SCALE: 1"=100'	<b>LESTER ENGINEERING COMPANY</b> CONSULTING ENGINEERS JACKSON, MISSISSIPPI	SHEET NO. <b>2</b>			
DRAWN: B. TEASLEY, JR.	DRWG. NO: 90-263					
APPROVED:						
DATE: NOV., 1990		<b>LOT LAYOUT AND DRAINAGE OVERLOOK POINTE</b>				
REV. NO.	DATE			NATURE OF REVISION	BY	CHKD

CURVE DATA			
<p><b>A</b> Δ = 78°23'01" D = 31.7794° T = 147.00' L = 246.65' R = 180.29'</p> <p>PC STA. 0+29.15 PI STA. 1+76.15 PT STA. 2+75.80</p>	<p><b>B</b> Δ = 104°00'47" D = 24.458° T = 300.00' L = 425.40' R = 234.33'</p> <p>PC STA. 3+38.42 PI STA. 6+38.42 PT STA. 7+63.82</p>	<p><b>C</b> Δ = 87°56'40" D = 36.6992° T = 150.62' L = 239.91' R = 156.12'</p> <p>PC STA. 8+17.20 PI STA. 9+67.82 PT STA. 10+56.84</p>	<p><b>D</b> Δ = 87°45'15" D = 36.5775° T = 150.62' L = 239.91' R = 156.62'</p> <p>PCC STA. 10+56.84 PI STA. 12+07.46 PT STA. 12+96.75</p>
<p><b>E</b> Δ = 34°16'26" D = 18.5968° T = 95.00' L = 184.30' R = 308.10'</p> <p>PC STA. 14+56.40 PI STA. 15+51.40 PT STA. 16.40.70</p>	<p><b>F</b> Δ = 128°18'16" D = 26.2541° T = 450.48' L = 488.70' R = 218.24'</p> <p>PC STA. 16+75.70 PI STA. 21+26.18 PT STA. 21+64.40</p>	<p><b>G</b> Δ = 66°33'47" D = 31.3415° T = 120.00' L = 212.38' R = 182.81'</p> <p>PC STA. 0+43.58 PI STA. 1+63.58 PT STA. 2+55.96</p>	<p><b>H</b> Δ = 44°48'31" D = 31.4942° T = 75.00' L = 142.28' R = 181.92'</p> <p>PC STA. 4+27.44 PI STA. 5+02.44 PT STA. 5+69.72</p>
<p><b>J</b> Δ = 90°00'00" D = 54.5674° T = 105.00' L = 184.93' R = 105.00'</p> <p>PC STA. 0+35 PI STA. 1+40 PCC STA. 1+99.93</p>	<p><b>K</b> Δ = 55°07'36" D = 115.0263° T = 26.00' L = 47.92' R = 49.81'</p> <p>PCC STA. 1+99.93 PI STA. 2+25.93 PT STA. 2+47.85</p>		

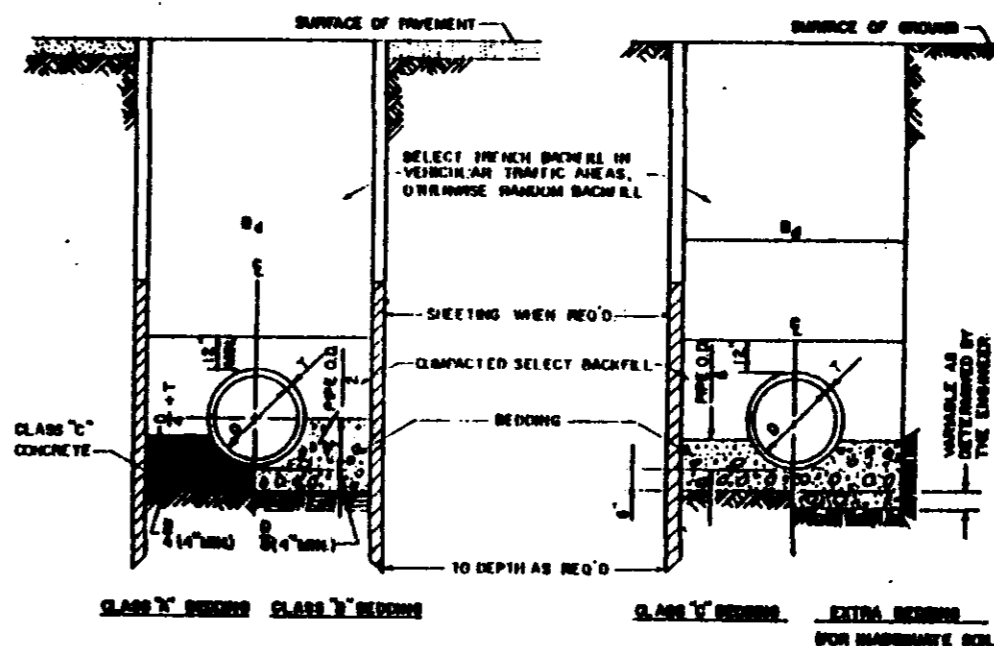
NO. 644  
B.M. ELEVATION 325.05  
NAIL IN ROOT 18" CHERRY  
35' LT. STA. 2+25 ON ST. "A"

NO. 644  
B.M. ELEVATION 313.88  
NAIL IN ROOT 36" PINE  
70' RT. STA. 11+50 ON ST. "A"



**SANITARY SEWER CONSTRUCTION NOTES**

- COMPOSITE PIPE**  
Semi-rigid composite pipe shall be of the solid wall ABS type (SDR 26) conforming to the latest edition of ASTM Standard D-2680, as applicable.
- LEAKAGE TESTS**  
**General**  
Before any backfill is placed, the sewer line shall be checked by the Engineer for line, grade and workmanship. Before acceptance, each section of line between manholes or such other lengths as determined by the Engineer to be suitable, shall be thoroughly inspected and any defects in workmanship shall be immediately corrected.  
The Contractor shall conduct either an infiltration or low-pressure air tests (after backfilling) of each reach of sewer between manholes. An infiltration test will be required where the crown of the entire reach of sewer being tested lies one foot (1') or more under the existing water table; otherwise, the air test shall be used.  
Leakage tests shall be conducted in the presence of the District Engineer.  
Any section of pipe exceeding an infiltration rate of 200 gallons/day/inch diameter/feet of pipe shall be re-laid at the Contractor's expense. The Contractor shall locate and repair leaks as necessary to pass the leakage tests.
- SELECT BEDDING**  
Select granular material for pipe Class "B" and "C" bedding shall be a well graded sand-gravel and clay material conforming to Class G, Group C, of Section 703.06 of the Mississippi Standard Specifications for Road and Bridge Construction, 1978 Edition.  
A select well-graded, sand-gravel shall be substituted for the above when specified and approved by the Engineer.
- EPOXY LINING FOR PRECAST CONCRETE MANHOLES**  
**General**  
All interior and joint surfaces of each precast concrete manhole section shall be prepared, coated and cured as necessary to complete the installation of a coal tar epoxy lining system in each cured concrete unit at the concrete casting facilities. No exterior surface coatings will be required. Before coating work is commenced, the Contractor shall submit to the Engineer the proposed coating supplier's complete material and application specifications specifically prepared for the particular application.
- Precast Concrete Manholes**  
Precast concrete manholes shall consist of precast reinforced riser sections, an eccentric cone and a base section conforming to the typical manhole details shown on the Drawings.  
Precast reinforced concrete manhole sections shall conform to the requirements of the latest edition of ASTM Serial Designation C-478.  
The interior surfaces of a precast concrete manhole section shall be coated with coal tar epoxy in the manner prescribed in the section on epoxy lining for precast manholes.  
Joints for precast concrete manhole sections shall be a combination of rubber gaskets, and preformed bituminous joint compound or a mastic joint material.  
Riser and base sections shall be 48 inches in diameter unless otherwise specified on plans.  
Manhole steps shall be cast as an integral part of the manhole section when formed.
- Pipe Connections to Manholes**  
When the Plans indicate connections to existing manholes, these connections shall be watertight using approved water stops and all work performed in an acceptable manner in accordance with details shown on the Drawings. Approved water stops equal to Kor-Seal connectors shall be used.  
Pipe connections to new manholes shall be made with water stops equal to Kor-Seal flexible connectors and shall be watertight. The annular space between pipe and connector shall be filled with flexible bitrite and PVC material.



60 6"  
5 4"

NOTE: ALL CONSTRUCTION TO BE BUILT IN ACCORDANCE WITH THE PEARL RIVER VALLEY WATER SUPPLY DISTRICT.

NOTE: CONTRACTOR TO VERIFY LOCATION OF EXIST UTILITIES PRIOR TO CONSTRUCTION.

**WATER CONSTRUCTION NOTES**

- Polyvinyl Chloride Pipe**  
Polyvinyl chloride (PVC) pipe shall be SDR 26 (Class 140), minimum, conforming to the latest edition of ASTM Standard D-2241. The thermoplastic material shall be virgin, rigid PVC plastic conforming to ASTM D-1784 for a minimum cell class of 12454-C (Type I PVC).  
Pipe joints shall be of the integral bell and socket type with flexible elastomeric seals conforming to the latest edition of ASTM D-3139. Elastomeric seals shall conform to the latest edition of ASTM F-477.  
Lubricant as recommended by the pipe manufacturer shall be used when completing joints.
- Service Saddles**  
Service saddles for PVC pipe shall be FORD Style 304, or approved equal.
- Corporation Stops**  
Corporation stops shall be 3/4-inch, minimum, FORD Type F600, or approved equal, ANMA taper, compression coupling for copper tubing.
- Service Tubing**  
Service tubing shall be 3/4-inch, minimum, annealed copper tube ASTM B88, Type K, 3/4-inch, minimum, polyethylene (PE) conforming to ANMA C901, or 3/4-inch polybutylene (PB) conforming to ANMA C902.
- Thrust Blocks**  
Thrust blocks shall be constructed at all bends, tees, valves, hydrant junctions or branches. Concrete shall be Class "C" in accordance with Section 804.5 of the Mississippi State Highway Department Standard Specifications. Thrust blocks shall be sized in accordance with ASCE 922.
- Valves and Valve Boxes**  
Gate valves shall be double disc, parallel seat, non-rising stem, 200 psi working pressure conforming to ANMA Standard C500-80. Valves shall be suitable for underground service and provided with 2-inch square operating nuts. Gate valves shall be Series 67 as manufactured by Dresser, or approved equal. End connection style shall be mechanical joint or flanged.  
Valve boxes shall be three piece adjustable, cast iron, Pattern No. 46-3 or 46-4 as manufactured by Vulcan Foundry, or approved equal. Valve boxes shall be adjusted to grade.

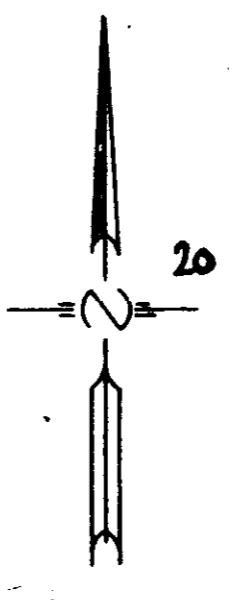
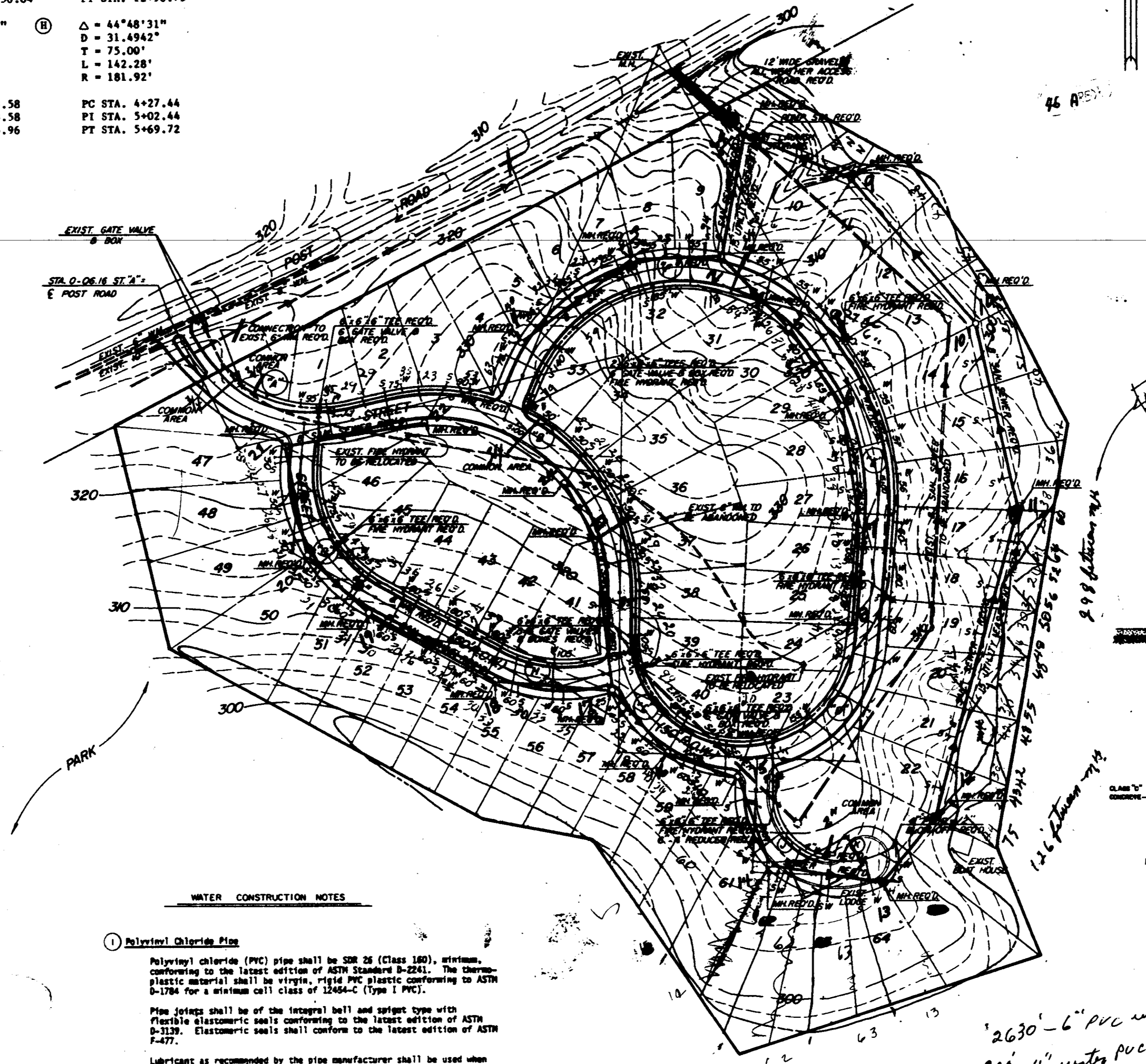
- Meter Boxes and Meter Yokes**
  - Meter boxes shall be Vulcan Model WB-1, Harper Standard Meterbox, or approved equal.
  - Meter yokes shall be for 5/8" x 3/4" meters and shall have angle inlet valve with padlock wings, compression couplings for 3/4" copper tubing or pack joints for PE/PP tubing inlet and IPT outlet. Meter yokes shall be Ford Series 70 or 170, Hayes Unit-Setter, or approved equal.

DESIGNED: _____		SCALE: 1"=100'		<b>LESTER ENGINEERING COMPANY</b> CONSULTING ENGINEERS JACKSON, MISSISSIPPI	
DRAWN: B. TEASLEY, J.		DRWG. NO: 90-263			
APPROVED: _____		DATE: SEPT, 1990		<b>WATER AND SEWER LAYOUT</b> <b>OVERLOOK POINTE</b>	
REV. NO.	DATE	NATURE OF REVISION	BY		
					SHEET NO. 3

**CURVE DATA**

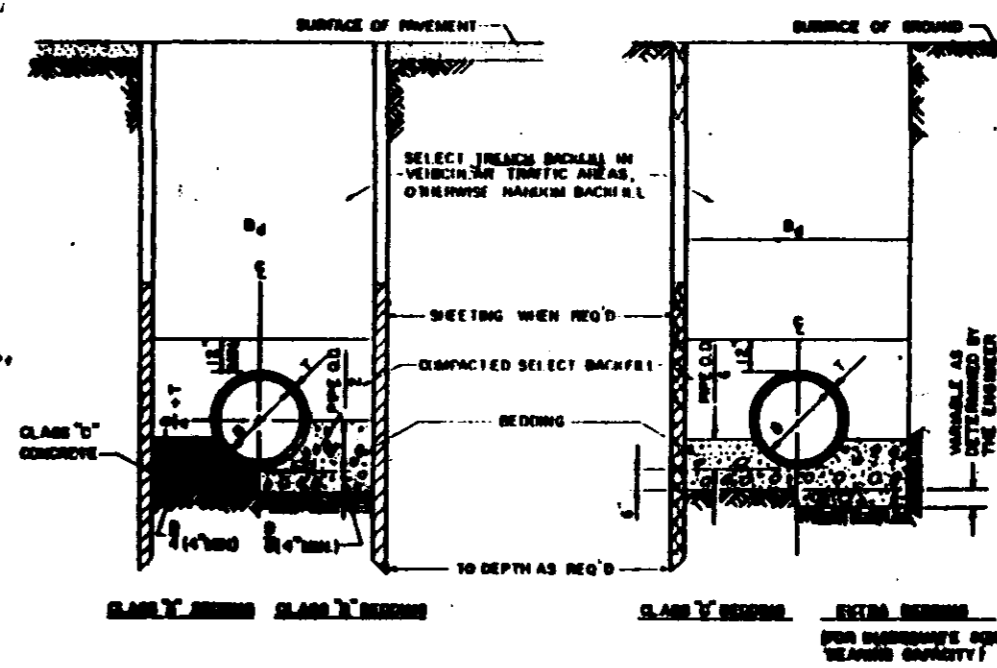
<b>A</b> Δ = 78°23'01" D = 31.7794' T = 147.00' L = 246.65' R = 180.29'	<b>B</b> Δ = 104°00'47" D = 24.458' T = 300.00' L = 425.40' R = 234.33'	<b>C</b> Δ = 87°56'40" D = 36.6992' T = 150.62' L = 239.64' R = 156.12'	<b>D</b> Δ = 87°45'15" D = 36.5775' T = 150.62' L = 239.91' R = 156.62'
<b>E</b> Δ = 34°16'26" D = 18.5968' T = 95.00' L = 184.30' R = 308.10'	<b>F</b> Δ = 128°18'16" D = 26.2541' T = 450.48' L = 488.20' R = 218.24'	<b>G</b> Δ = 66°33'47" D = 31.3415' T = 120.00' L = 212.38' R = 182.81'	<b>H</b> Δ = 44°48'31" D = 31.4942' T = 75.00' L = 142.28' R = 181.92'
<b>J</b> A = 90°00'00" D = 54.5674' T = 105.00' L = 164.93' R = 105.00'	<b>K</b> A = 55°07'36" D = 115.0263' T = 26.00' L = 47.92' R = 49.81'		

NO. 644 <b>B. M. ELEVATION 1 323.05</b> MAIL IN ROOT 18 CHERRY 35' LT. STA. 2+25 ON ST. A	NO. 644 <b>B. M. ELEVATION 1 313.88</b> MAIL IN ROOT 38 PINE 30' RT. STA. 11+50 ON ST. A
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**SANITARY SEWER CONSTRUCTION NOTES**

- COMPOSITE PIPE**  
Semi-rigid composite pipe shall be of the solid wall ABS type (SDR 26) conforming to the latest edition of ASTM Standard D-2680, as applicable.
- LEAKAGE TESTS**  
**General:**  
Before any backfill is placed, the sewer line shall be checked by the Engineer for line, grade and workmanship. Before acceptance, each section of line between manholes or such other length as determined by the Engineer to be suitable, shall be thoroughly inspected and any defects in workmanship shall be immediately corrected.  
**The Contractor shall conduct either an infiltration or low-pressure air tests (after backfilling) of each reach of sewer between manholes. An infiltration test will be required where the crown of the entire reach of sewer being tested lies one foot (1') or more under the existing water table; otherwise, the air test shall be used. Leakage tests shall be conducted in the presence of the District Engineer.**  
Any section of pipe exceeding an infiltration rate of 200 gallons/day/inch diameter/feet of pipe shall be re-laid at the Contractor's expense. The Contractor shall locate and repair leaks as necessary to pass the leakage tests.
- SELECT BEDDING**  
**General:**  
Select granular material for pipe Class "B" and "C" bedding shall be a well graded granular sand clay material conforming to Class B, Group C, of Section 703.06 of the Mississippi Standard Specifications for Road and Bridge Construction, 1976 Edition.  
A select well-graded, sand-gravel shall be substituted for the above when specified and approved by the Engineer.
- SPRAY LINING FOR PRECAST CONCRETE MANHOLES**  
**General:**  
All interior and joint surfaces of each precast concrete manhole section shall be prepared, coated and cured as necessary to complete the installation of a coal tar epoxy lining system in each cured concrete unit at the concrete casting facilities. No exterior surface coatings will be required. Before coating work is commenced, the Contractor shall submit to the Engineer the proposed coating supplier's complete material and application specifications specifically prepared for the particular application.
- Precast Concrete Manholes**  
Precast concrete manholes shall consist of precast reinforced riser sections, an eccentric cone and a base section conforming to the typical manhole details shown on the Drawings.  
Precast reinforced concrete manhole sections shall conform to the requirements of the latest edition of ASTM Serial Designation C-478.  
The interior surfaces of a precast concrete manhole section shall be coated with coal tar epoxy in the manner prescribed in the section on epoxy lining for precast manholes.  
Joints for precast concrete manhole sections shall be a combination of rubber gaskets, and preformed bituminous joint compound or a mastic joint material.  
Base and riser sections shall be 48 inches in diameter unless otherwise specified on plans.  
Manhole steps shall be cast as an integral part of the manhole section when formed.
- Pipe Connections to Manholes**  
When the Plans indicate connections to existing manholes, these connections shall be watertight using approved water stops and all work performed in an acceptable manner in accordance with details shown on the Drawings. Approved water stops equal to Kor-A-Seal connectors shall be used.  
Pipe connections to new manholes shall be made with water stops equal to Kor-A-Seal flexible connectors and shall be watertight. The annular space between pipe and connector shall be filled with flexible bitrite and PVC material.



TYPICAL TRENCH DETAILS  
NOT TO SCALE

**WATER CONSTRUCTION NOTES**

- Polyvinyl Chloride Pipe**  
Polyvinyl chloride (PVC) pipe shall be SDR 26 (Class 180), minimum, conforming to the latest edition of ASTM Standard D-2241. The thermoplastic material shall be virgin, rigid PVC plastic conforming to ASTM D-1784 for a minimum cell class of 12454-C (Type I PVC).  
Pipe joints shall be of the integral bell and spigot type with flexible elastomeric seals conforming to the latest edition of ASTM D-3129. Elastomeric seals shall conform to the latest edition of ASTM F-477.  
Lubricant as recommended by the pipe manufacturer shall be used when completing joints.
- Service Saddles**  
Service saddles for PVC pipe shall be FORD Style 304, or approved equal.
- Compression Stops**  
Compression stops shall be 3/4-inch, minimum, FORD Type F600, or approved equal, AAM taper, compression coupling for copper tubing.
- Service Tubing**  
Service tubing shall be 3/4-inch, minimum, annealed copper tube ASTM B88, Type K, 3/4-inch, minimum, polyethylene (PE) conforming to AAM C901, or 3/4-inch polybutylene (PB) conforming to AAM C902.
- Thrust Blocks**  
Thrust blocks shall be constructed at all bends, tees, valves, hydrant junctions or branches. Concrete shall be Class "C" in accordance with Section 804.5 of the Mississippi State Highway Department Standard Specifications. Thrust blocks shall be sized in accordance with AAM PE2.
- Valves and Valve Boxes**  
Gate valves shall be double disc, parallel seat, non-rising stem, 200 psi working pressure conforming to AAM Standard CS00-80. Valves shall be suitable for underground service and provided with 2-inch square operating nuts. Gate valves shall be Series 67 as manufactured by Dresser, or approved equal. End connection style shall be mechanical joint or flanged.  
Valve boxes shall be three piece adjustable, cast iron, Pattern No. MB-3 or MB-4 as manufactured by Vulcan Foundry, or approved equal. Valve boxes shall be adjusted to grade.

- Water Boxes and Meter Yokes**
  - Meter boxes shall be Vulcan Model MB-1, Harper Standard Meterbox, or approved equal.
  - Meter yokes shall be for 3/8" x 3/4" meters and shall have angle inlet valve with neck wing, compression couplings for 3/4" copper tubing or pack joints for PE/PB tubing inlet and IPT outlet. Meter yokes shall be Ford Series 70 or 170, Hayes Unit-Setter, or approved equal.

2630'-6" PVC water main  
230'-4" water PVC  
1-4" cap  
1-4x6 copper  
1-4x2 T  
6'-2" PVC pipe  
1-2" valve

NOTE: ALL CONSTRUCTION TO BE BUILT IN ACCORDANCE WITH THE PEARL RIVER VALLEY WATER SUPPLY DISTRICT.

NOTE: CONTRACTOR TO VERIFY LOCATION OF EXIST. UTILITIES PRIOR TO CONSTRUCTION.

DESIGNED:	SCALE: 1"=100'	<b>LESTER ENGINEERING</b> CONSULTING ENGINEER JACKSON, MISSISSIPPI			
DRAWN: B. TEASLEY, JR.	DRWG. NO: 90-263				
APPROVED:		<b>WATER AND SEWER LAYOUT OVERLOOK POINTE</b>			
DATE: 08/26/1990					
REV. NO.	DATE	NATURE OF REVISION	BY	CHECKED	APPROVED

R.M. ELEVATION 525.05  
 NAIL IN ROOT 18" CHERRY  
 25' LT. STA 2+25  
 ON ST. A

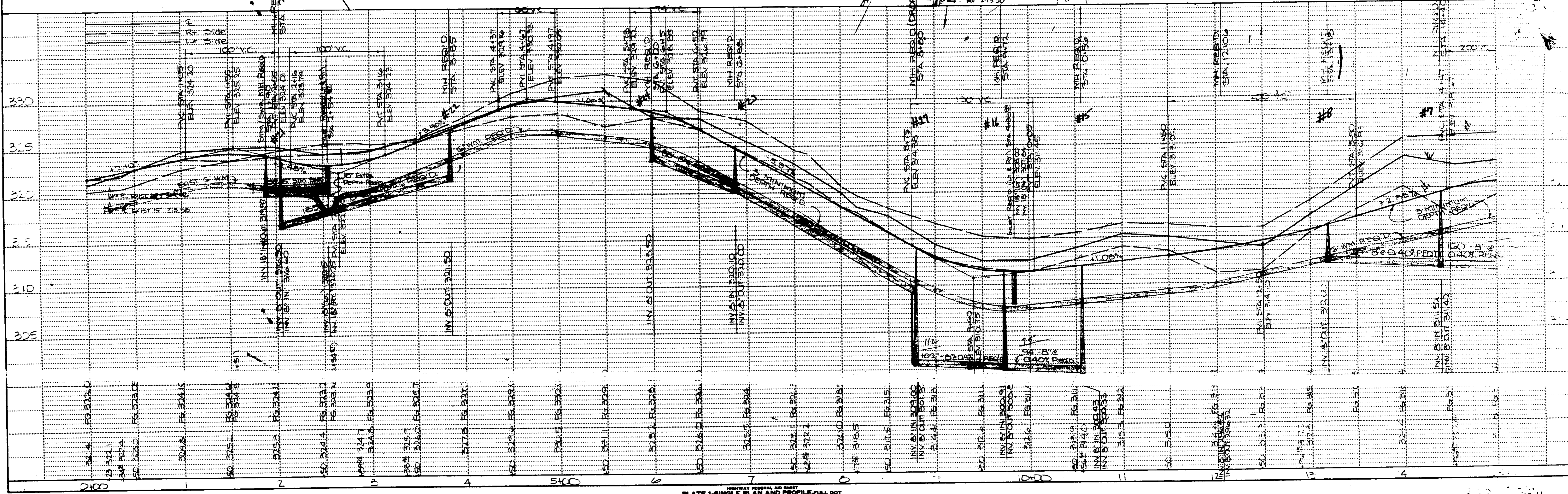
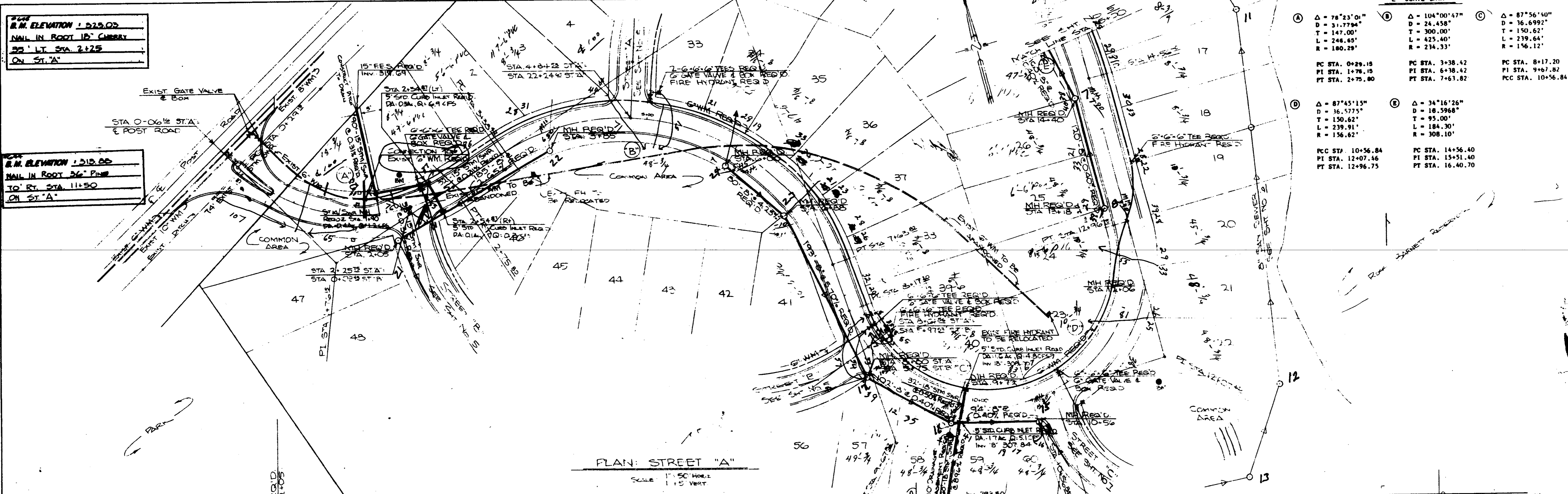
R.M. ELEVATION 525.05  
 NAIL IN ROOT 36" PINE  
 TO RT. STA 11+50  
 ON ST. A

DATE	
BY	
PLAN	
SURVEYED	
ALIGNED	
NOTED	
NO.	

DATE	
BY	
PROFILE	
SURVEYED	
NOTED	
NO.	

CURVE DATA

(A) $\Delta = 78^{\circ}23'01''$ $D = 31.7794'$ $T = 147.00'$ $L = 246.65'$ $R = 180.28'$	(B) $\Delta = 104^{\circ}00'47''$ $D = 24.458'$ $T = 300.00'$ $L = 425.40'$ $R = 234.33'$	(C) $\Delta = 87^{\circ}56'40''$ $D = 16.6992'$ $T = 150.62'$ $L = 239.64'$ $R = 156.12'$
PC STA. 0+29.15 PI STA. 1+78.15 PT STA. 2+75.80	PC STA. 3+38.42 PI STA. 6+38.42 PT STA. 7+61.82	PC STA. 8+17.20 PI STA. 9+67.82 PCC STA. 10+56.84
(D) $\Delta = 87^{\circ}45'15''$ $D = 36.5775'$ $T = 150.62'$ $L = 239.91'$ $R = 156.62'$	(E) $\Delta = 34^{\circ}16'26''$ $D = 18.5968'$ $T = 95.00'$ $L = 184.30'$ $R = 308.10'$	
PCC STA. 10+56.84 PI STA. 12+07.46 PT STA. 12+96.75	PC STA. 14+56.40 PI STA. 15+51.40 PT STA. 16.40.70	



**① CURVE DATA**

A = 34°16'30"	B = 120°18'16"
D = 18.5068'	D = 36.2541'
T = 95.89'	T = 450.48'
L = 104.30'	L = 488.79'
R = 308.18'	R = 218.24'

PC STA. 14+36.40  
PT STA. 15+51.40  
PI STA. 16.40.70

PC STA. 16+75.70  
PT STA. 21+26.18  
PI STA. 21+44.40

② M.H. ELEVATION 319.00 M.H. IN BOX 3' PINE 70' RT. STA. 11+50 ON ST. 'A'	③ M.H. ELEVATION 325.00 M.H. IN BOX 1.8' CHERRY 36' LA. STA. 2+25 ON STREET 'A'
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**④ CURVE DATA**

A = 66°33'47"	B = 44°48'31"
D = 31.3415'	D = 31.4942'
T = 120.00'	T = 75.00'
L = 212.38'	L = 142.28'
R = 182.81'	R = 181.92'

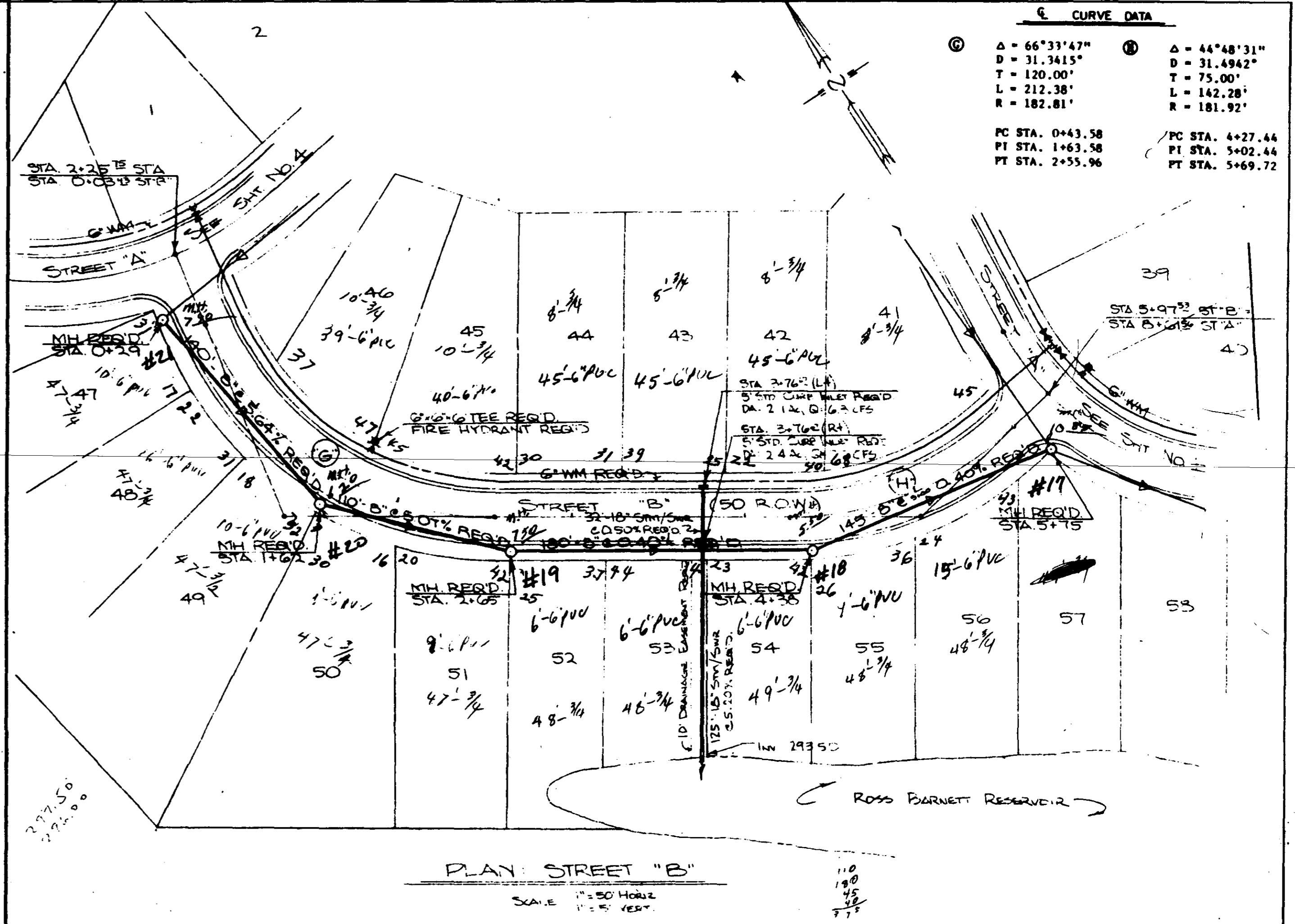
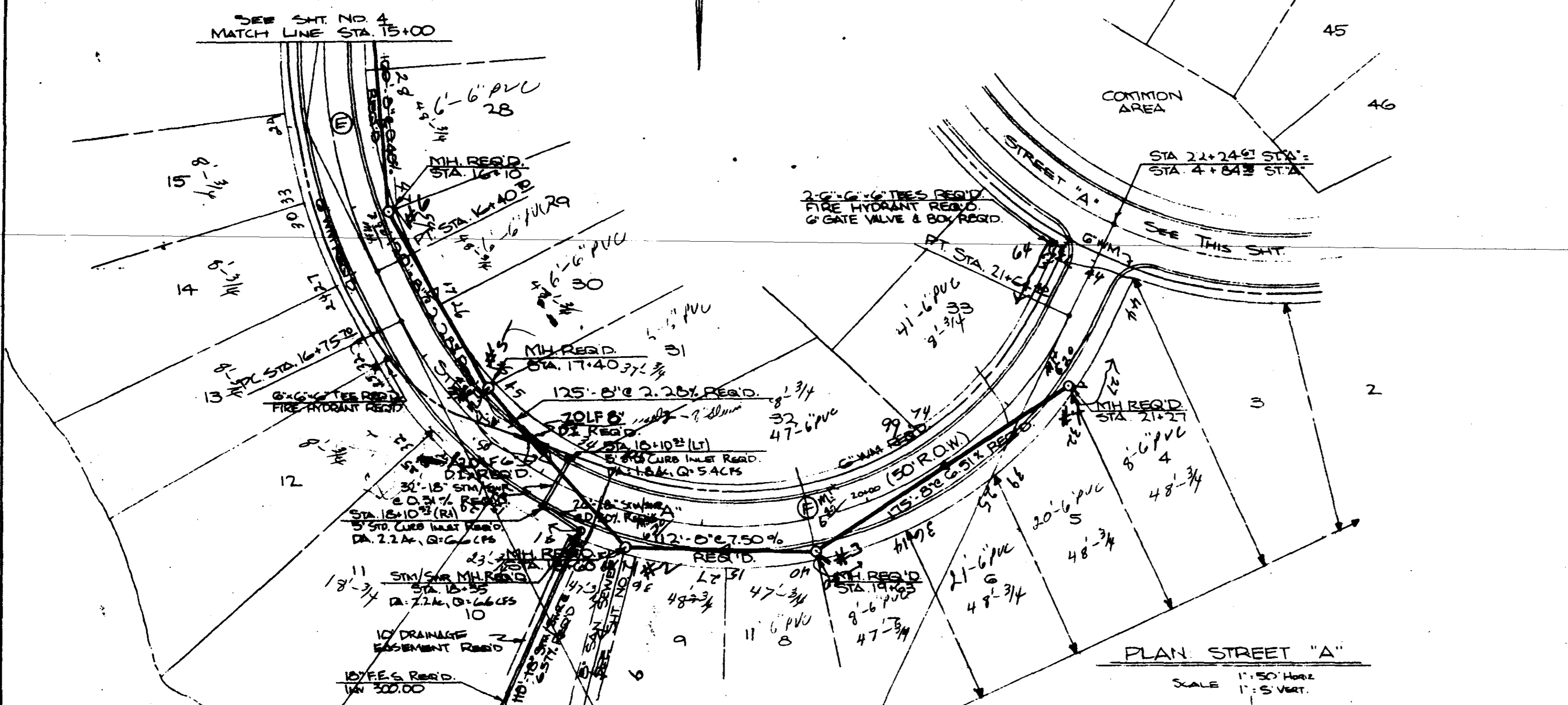
PC STA. 0+43.58  
PT STA. 1+63.58  
PI STA. 2+55.96

PC STA. 4+27.44  
PT STA. 5+02.44  
PI STA. 5+69.72

**PLAN**

DATE	BY

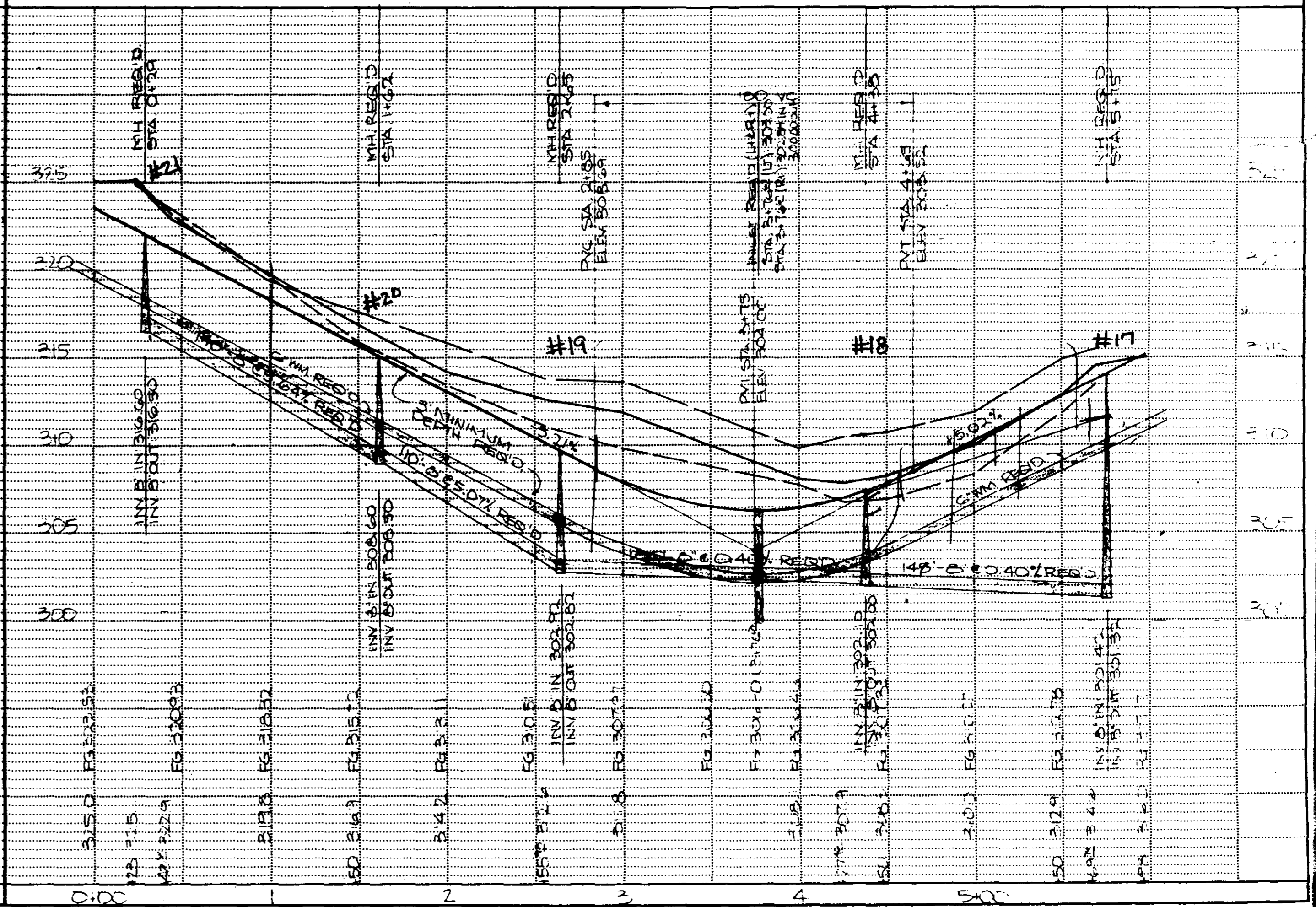
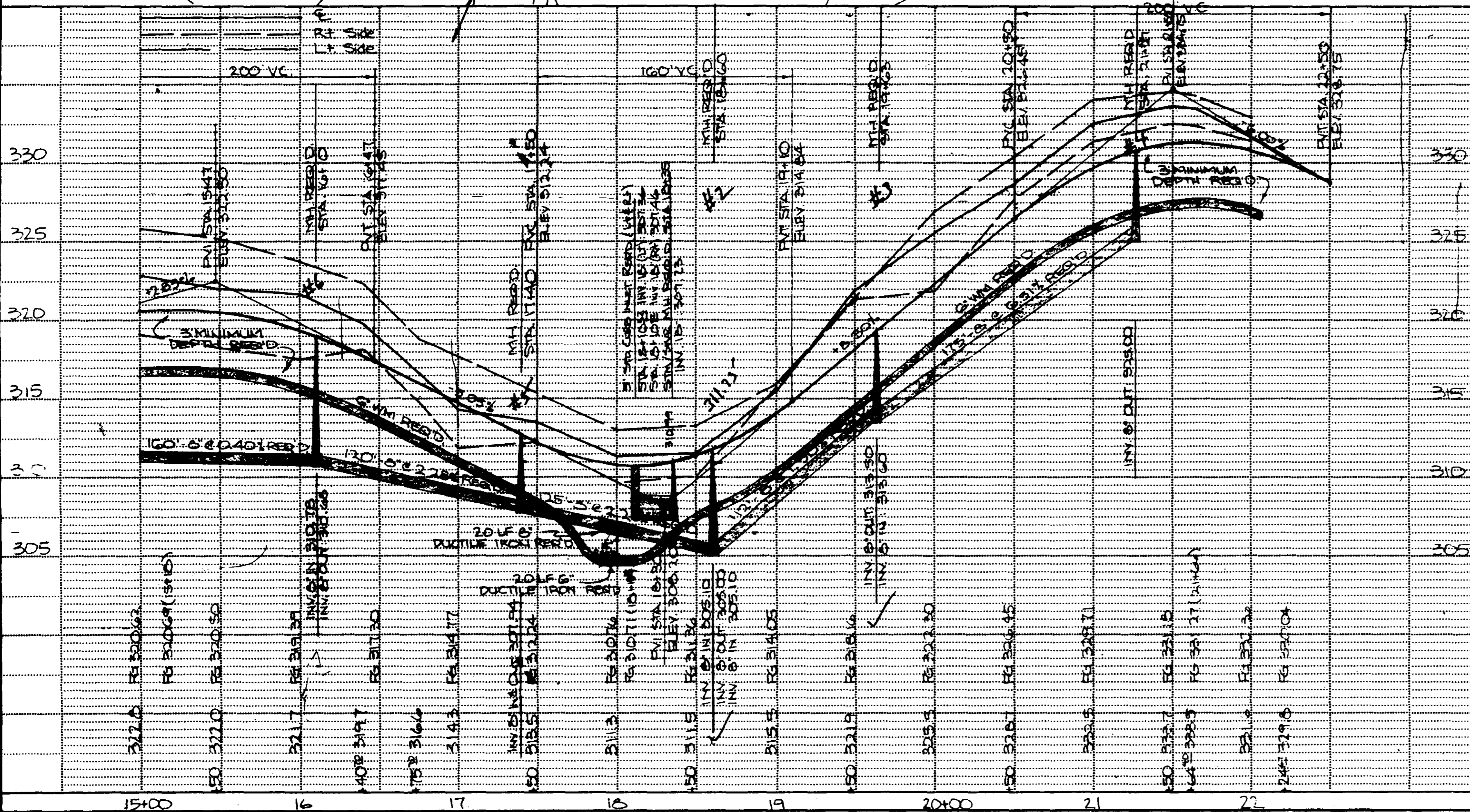
SURVEYED, PLOTTED, CHECKED, DATE, BY, NO. OF WAY CHECKED, DATE, BY, NO.



**PROFILE**

DATE	BY

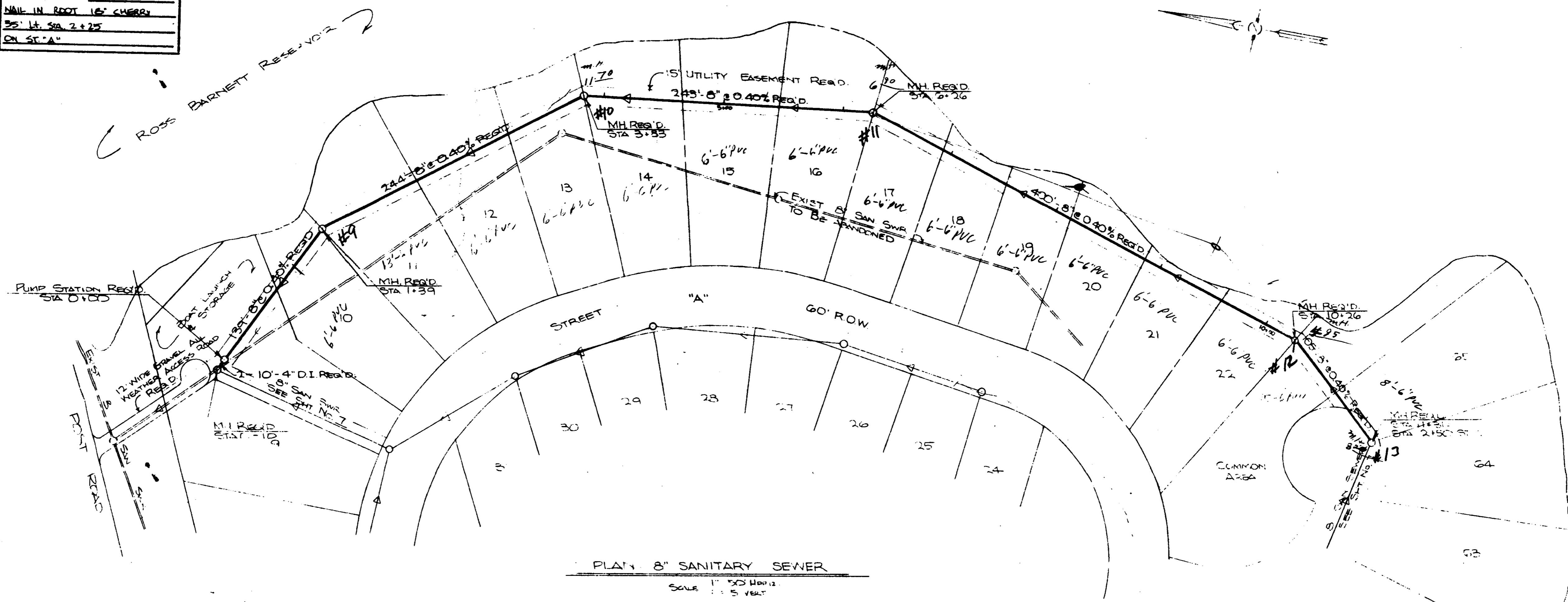
SURVEYED, PLOTTED, CHECKED, DATE, BY, NO. OF WAY CHECKED, DATE, BY, NO.



12" DIA  
 B.M. ELEVATION = 325.85  
 NAIL IN ROOT 26' PINE  
 TO RT. STA. 114.80  
 ON ST. "A"

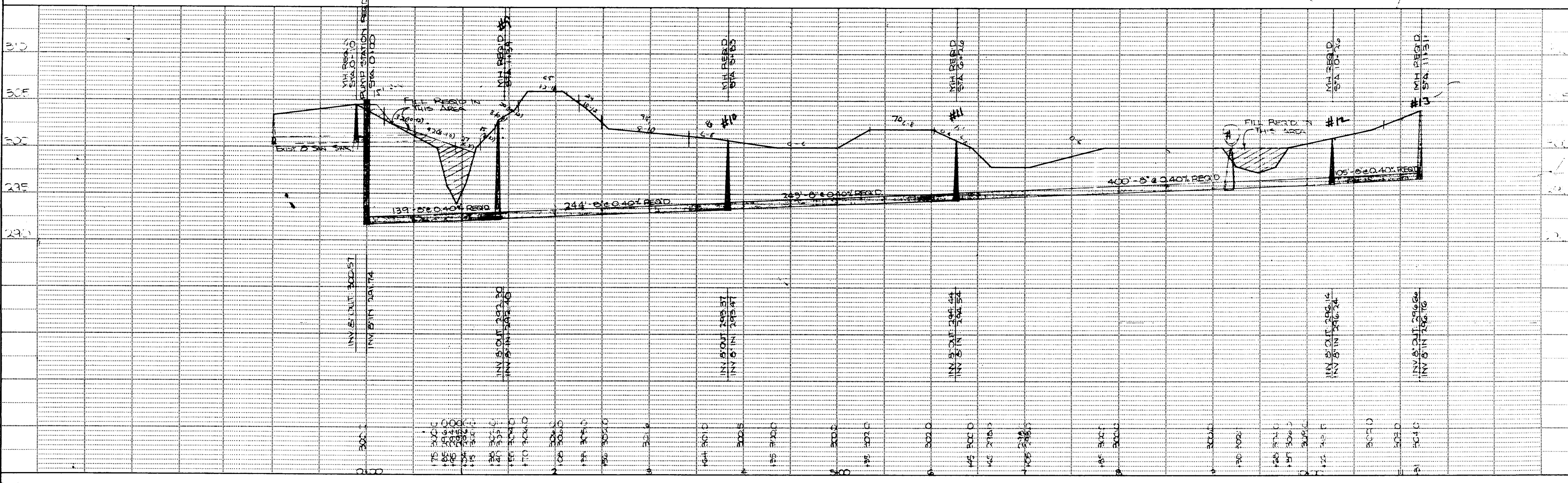
12" DIA  
 B.M. ELEVATION = 325.03  
 NAIL IN ROOT 16' CHERRY  
 35' Lt. Sta. 2+25  
 ON ST. "A"

PLAN	DATE
SURVEYED	BY
PLOTTED	BY
CHECKED	BY
DATE	
NOTE BOOK	
NO.	

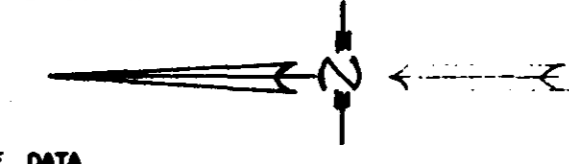


PLAN 8" SANITARY SEWER  
 SCALE 1" = 50' HORIZ.  
 1" = 5' VERT.

PROFILE	DATE
SURVEYED	BY
GRADES CHECKED	BY
B.M. NOTED	BY
STRUCTURE NOTATIONS CHECKED	BY
NOTE BOOK	
NO.	



HIGHWAY FEDERAL AID SHEET  
 PLATE 1-SINGLE PLAN AND PROFILE-FULL DOT  
 WILSON  
 PRINTED IN U.S.A.

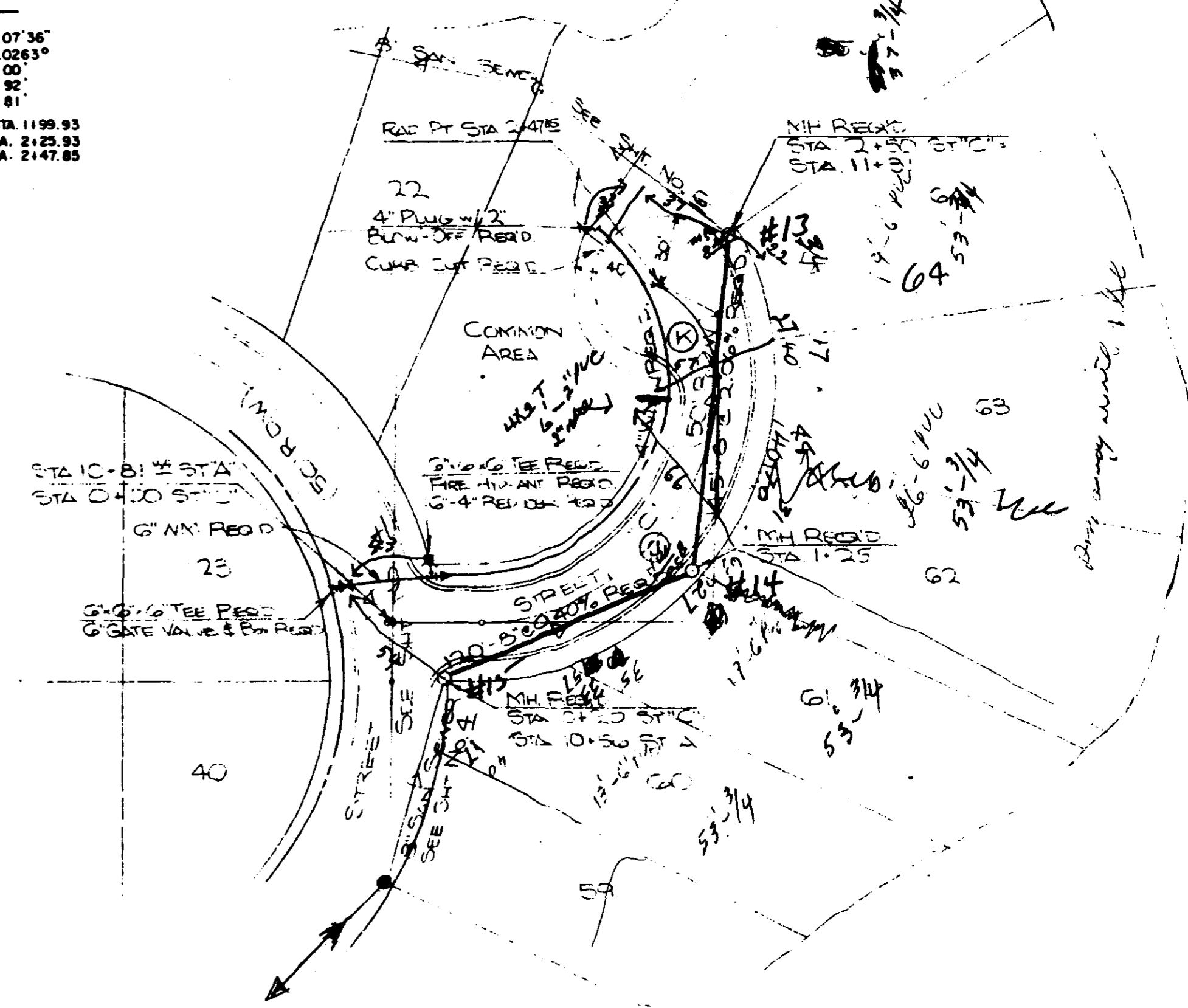
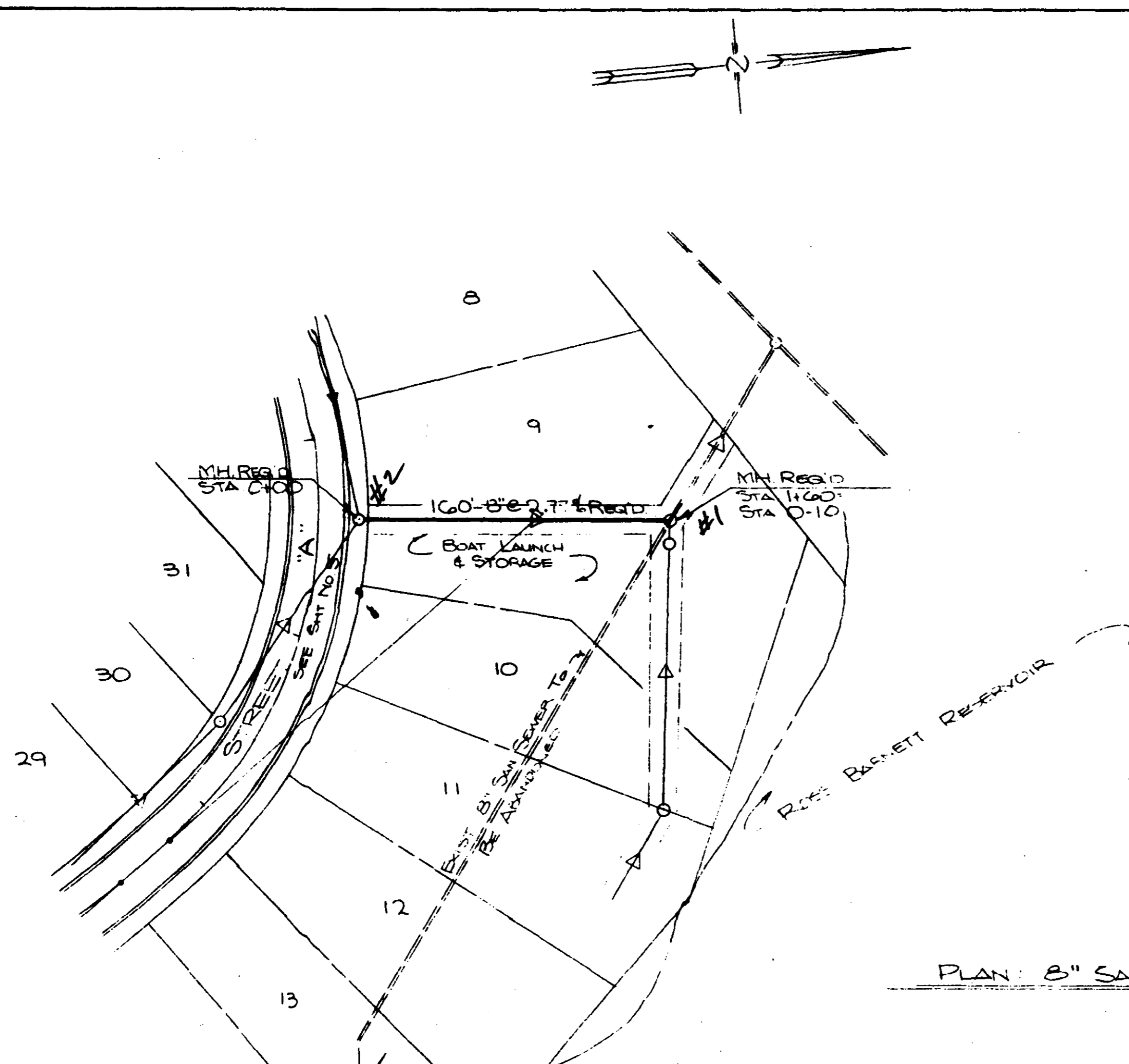


**E CURVE DATA**

<b>A</b>	$\Delta = 90^{\circ}00'00''$	<b>B</b>	$\Delta = 55^{\circ}07'36''$
$D = 34.3674'$		$D = 115.0263'$	
$T = 106.00'$		$T = 26.00'$	
$L = 104.93'$		$L = 47.92'$	
$R = 105.00'$		$R = 48.91'$	
<b>PC STA: 0+35.00</b>		<b>PCC STA: 1+99.93</b>	
<b>PI STA: 1+40.00</b>		<b>PT STA: 2+25.93</b>	
<b>PCC STA: 1+99.93</b>		<b>PT STA: 2+47.85</b>	

**PLAN**

DESIGNED	BY	DATE
CHECKED		
ALIGNED		
CONSTRUCTED		
NOTE BOOK		
NO.		

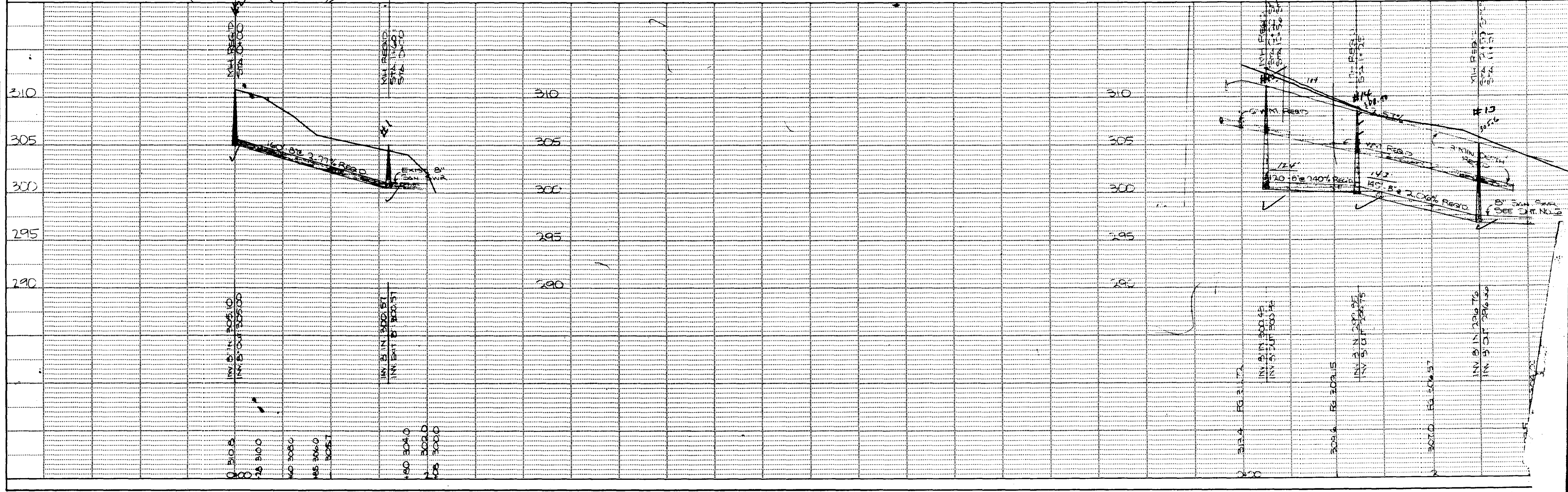


PLAN: 8" SANITARY SEWER FROM STREET A TO PUMP STATION  
SCALE: 1" = 50' HORIZ. / 1" = 5' VERT.

PLAN: STREET "A"  
SCALE: 1" = 50' HORIZ. / 1" = 5' VERT.

**PROFILE**

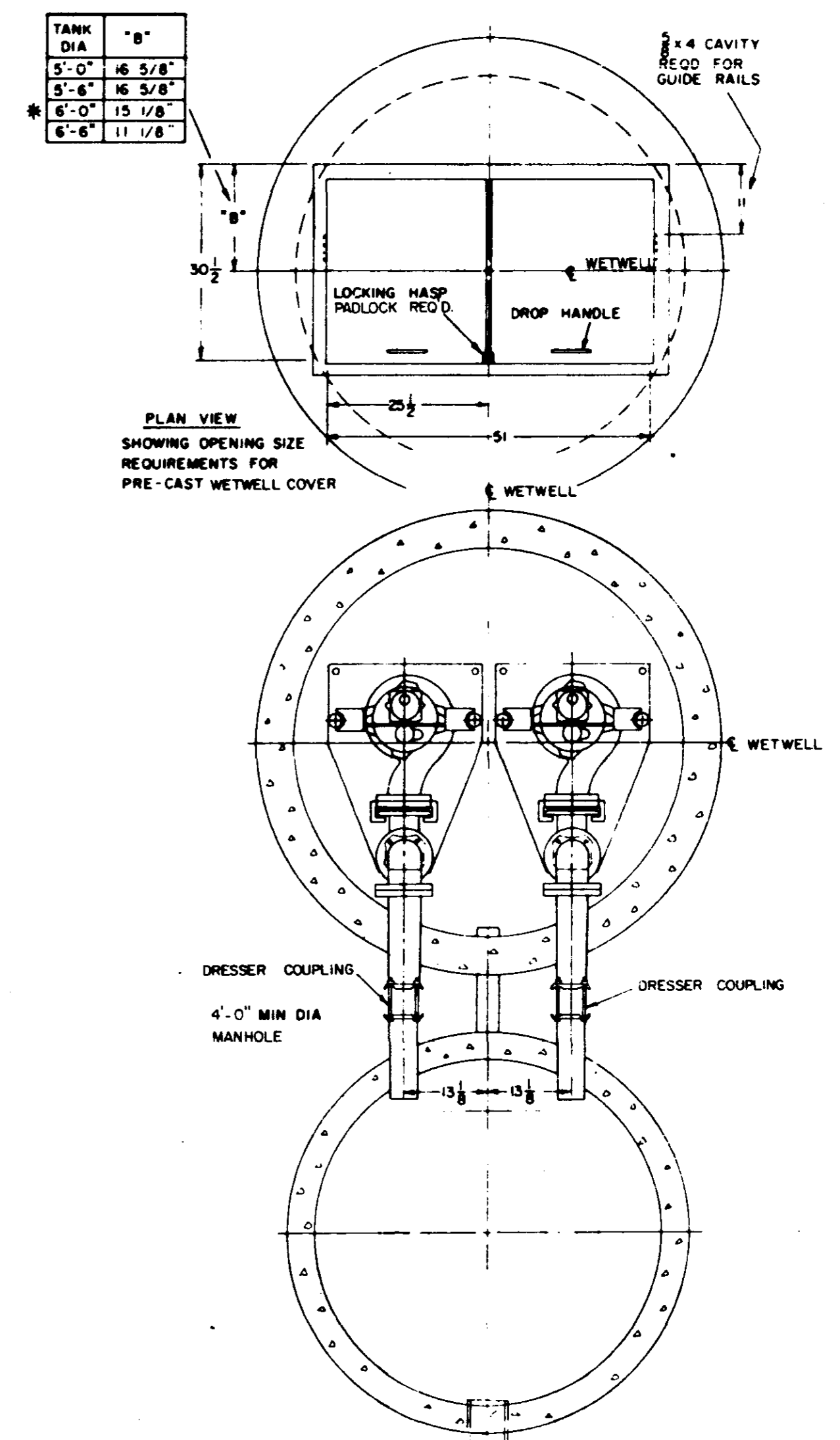
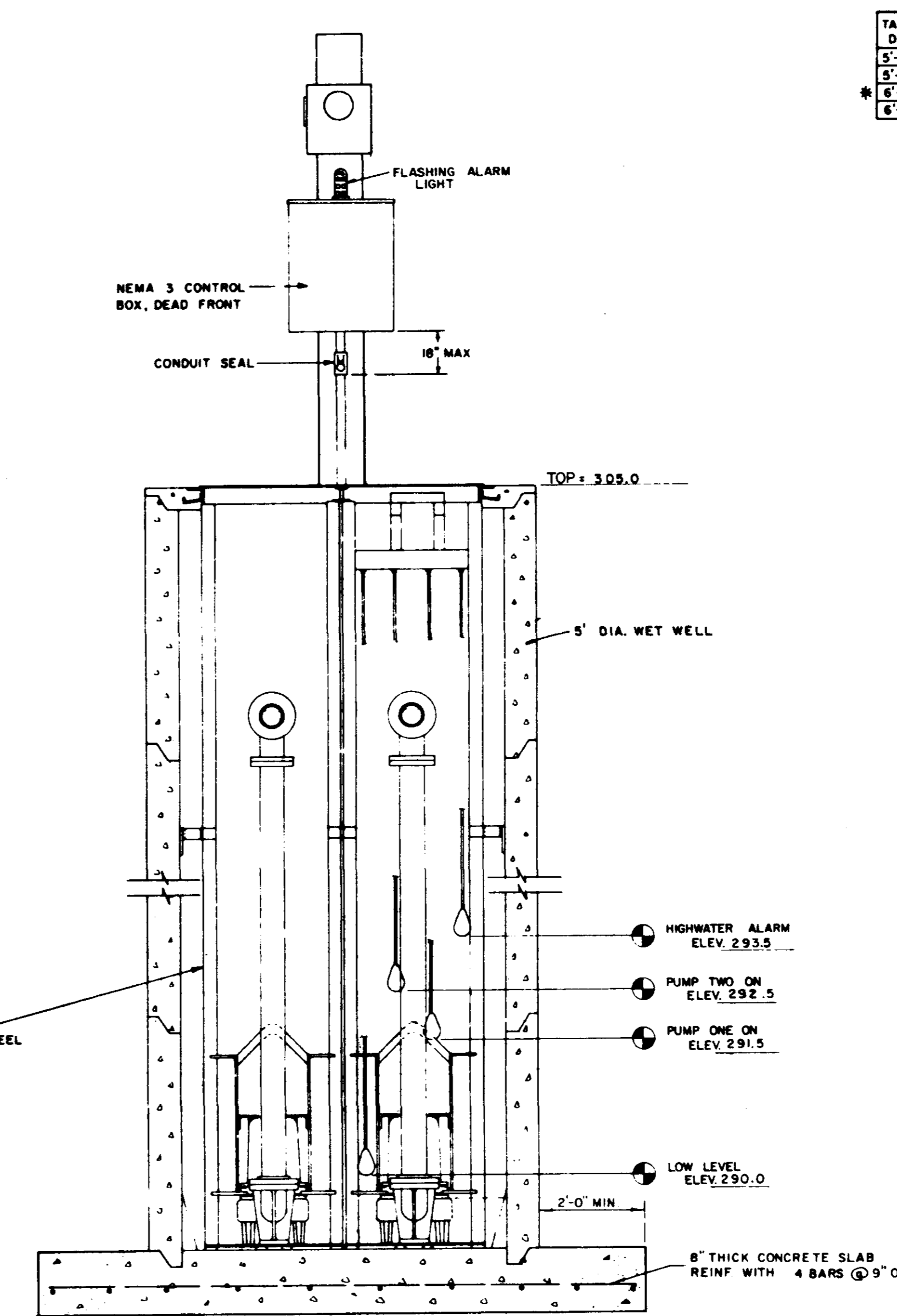
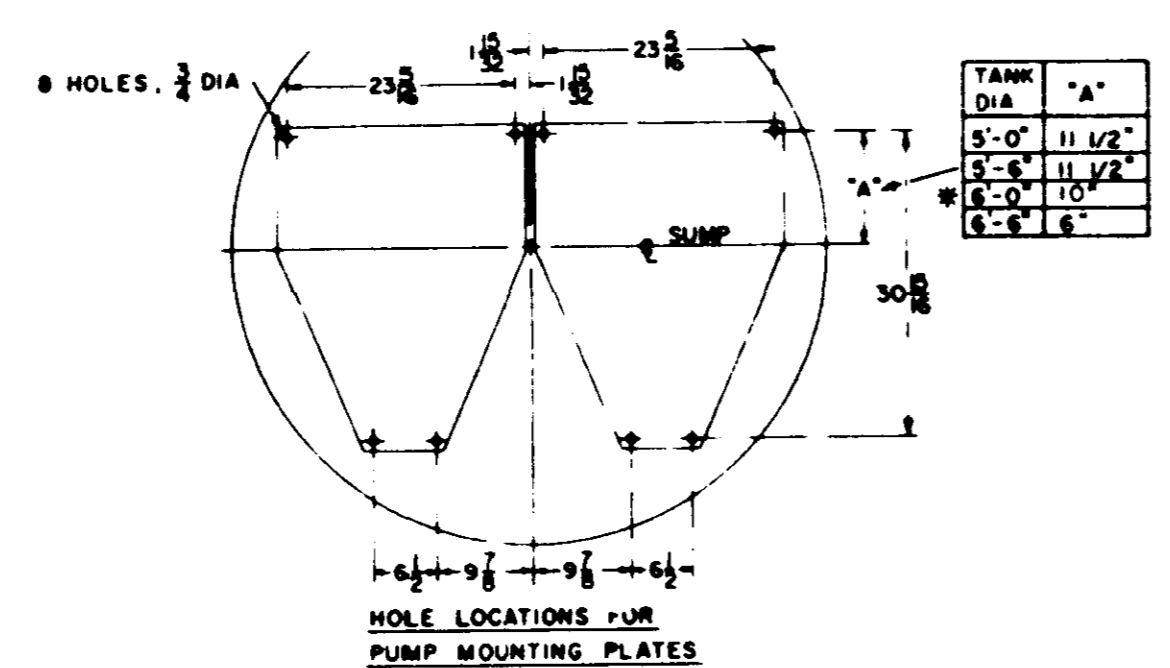
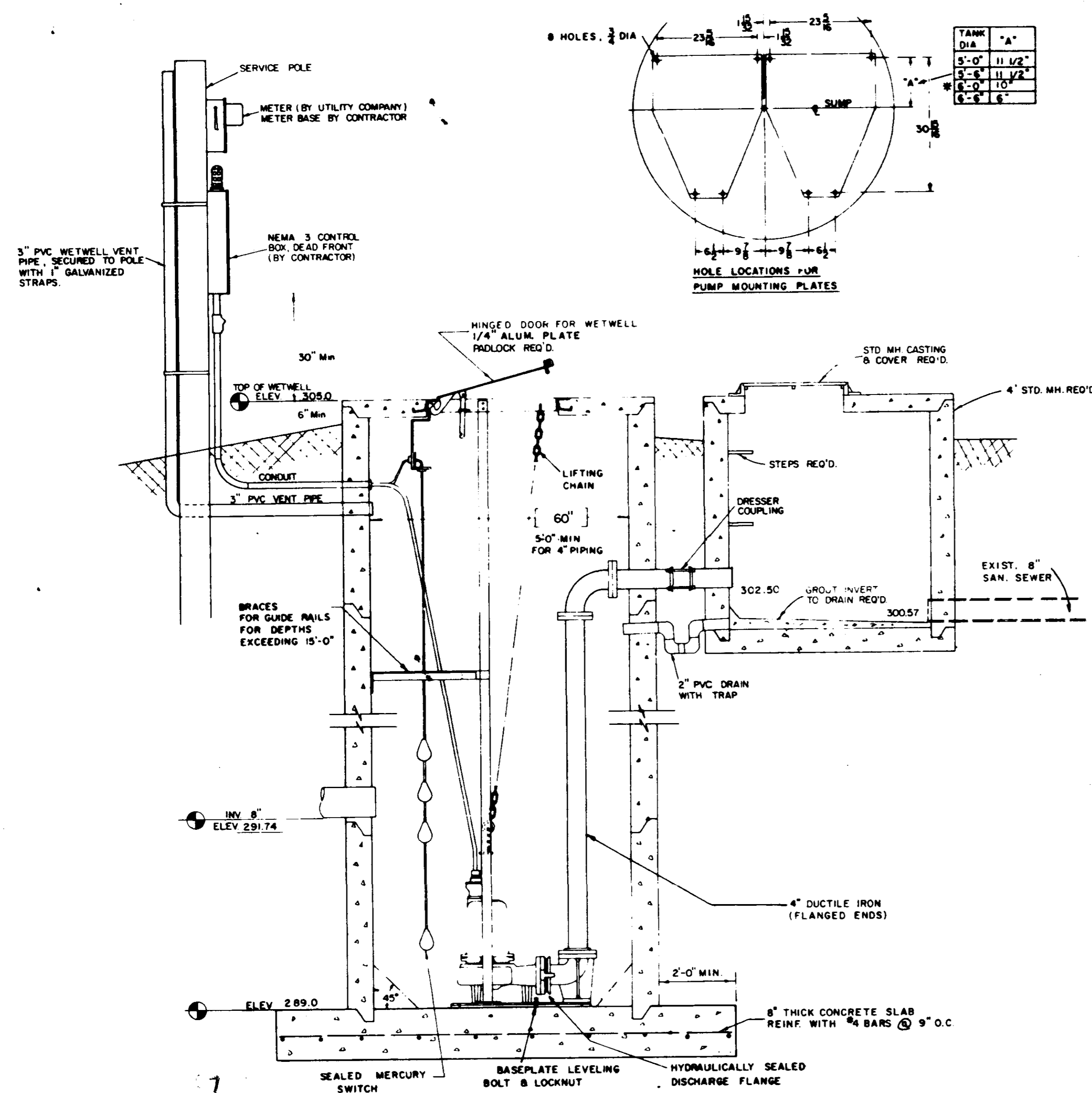
DESIGNED	BY	DATE
CHECKED		
GRADES		
PLOTTED		
NOTE BOOK		
NO.		



30500  
30157  
33

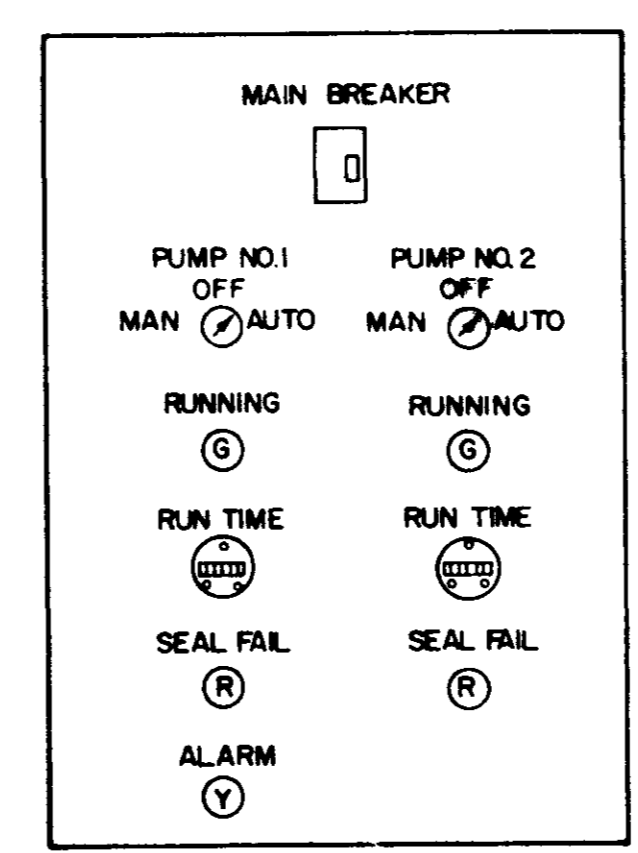


# DUPLEX SUBMERSIBLE WASTEWATER PUMPING STATION



TANK DIA	"B"
5'-0"	16 5/8"
5'-6"	16 5/8"
6'-0"	15 1/8"
6'-6"	11 1/8"

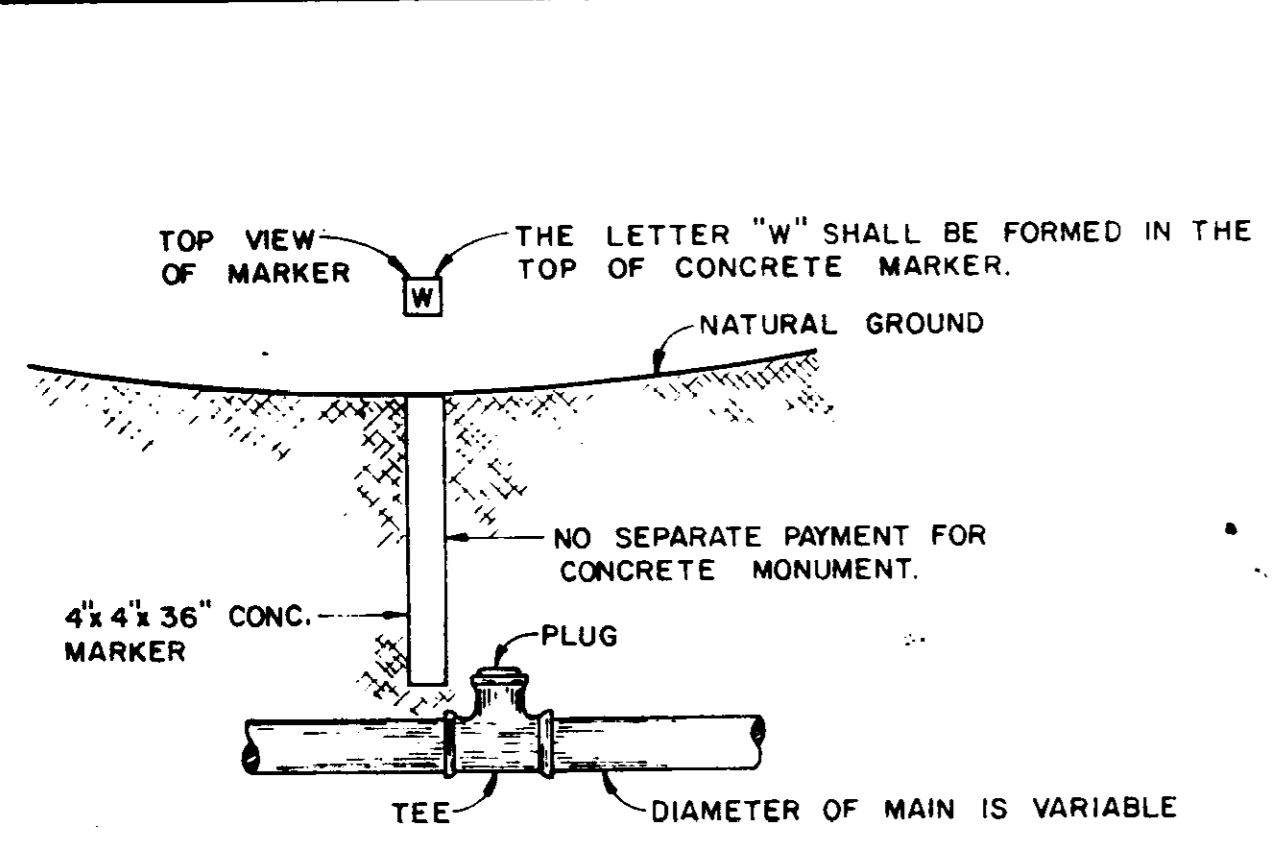
72  
64  
72  
48  
120  
165  
210  
270



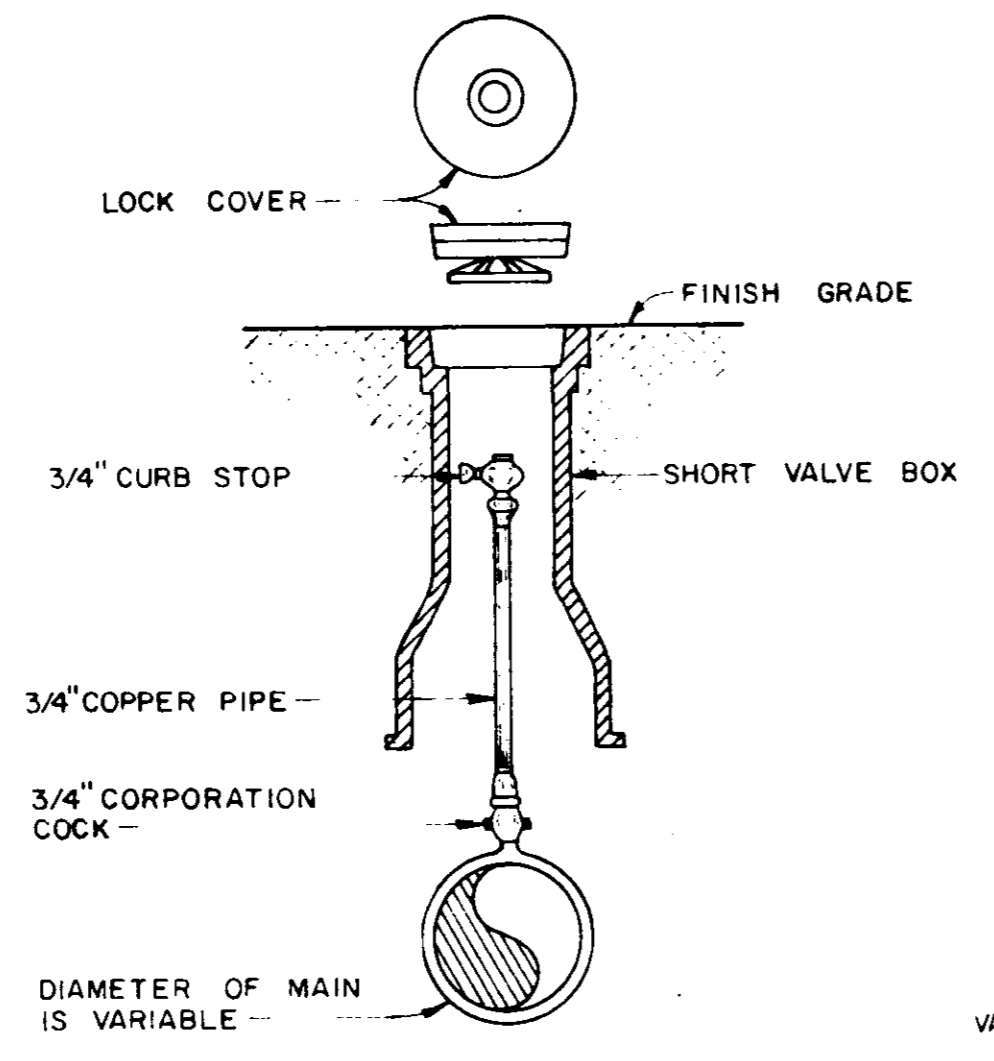
INTERIOR PANEL DETAIL

**PERFORMANCE REQUIREMENTS**  
 50 GPM AT 12.5 FT. TDH  
 ONE H.P. MOTORS AT 1150 RPM  
 3 PHASE, 240 VOLT, 60 Hz  
 PUMP MODEL: HYDROMATIC 54MX

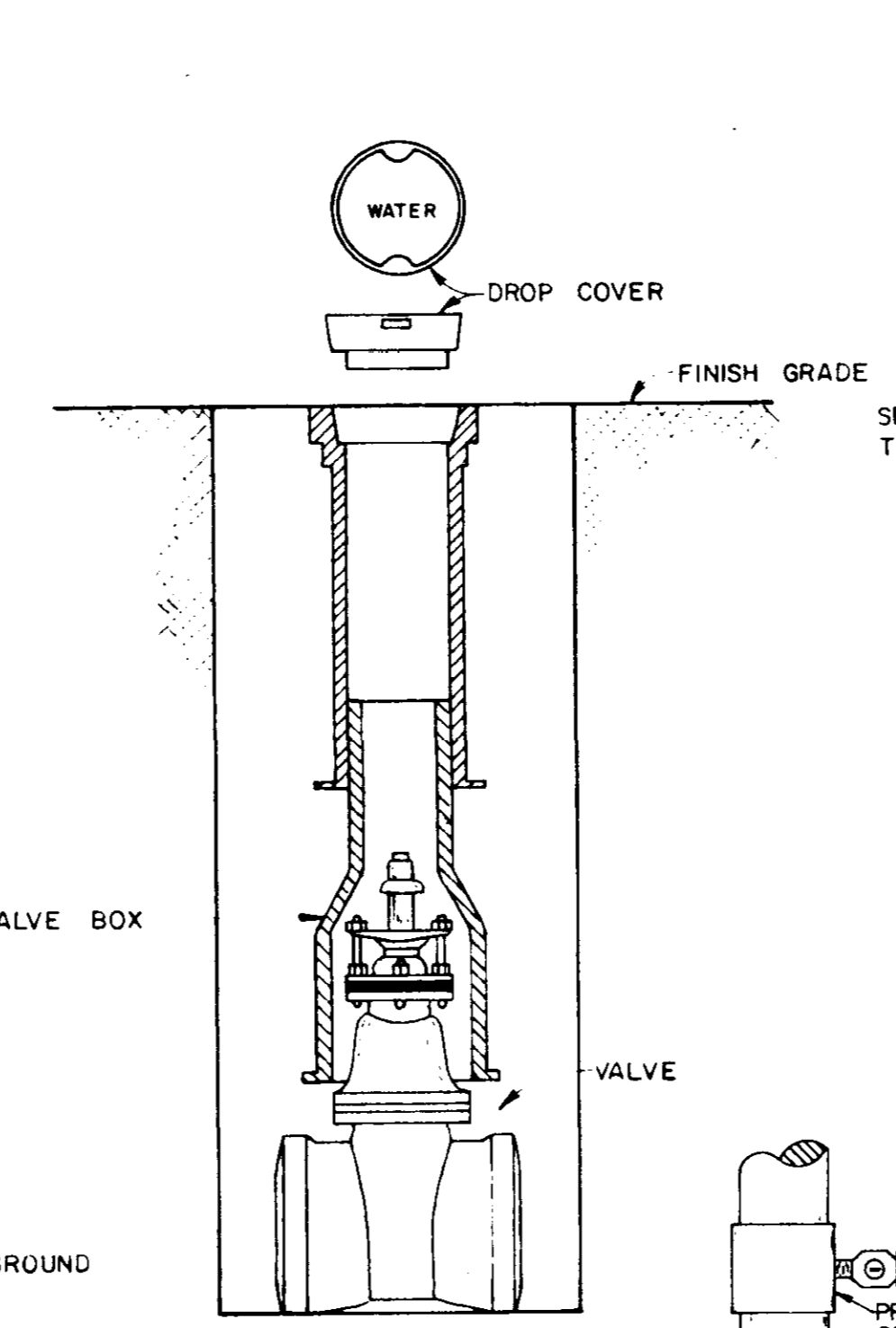
DESIGNED:	SCALE:	<b>LESTER ENGINEERING COMPANY</b> CONSULTING ENGINEERS JACKSON, MISSISSIPPI	SHEET NO. <b>8</b>		
DRAWN:	DRWG. NO: 90-263				
APPROVED:					
DATE:					
REV. NO.	DATE	NATURE OF REVISION	BY	CHKD/APPD	WASTEWATER PUMPING STATION



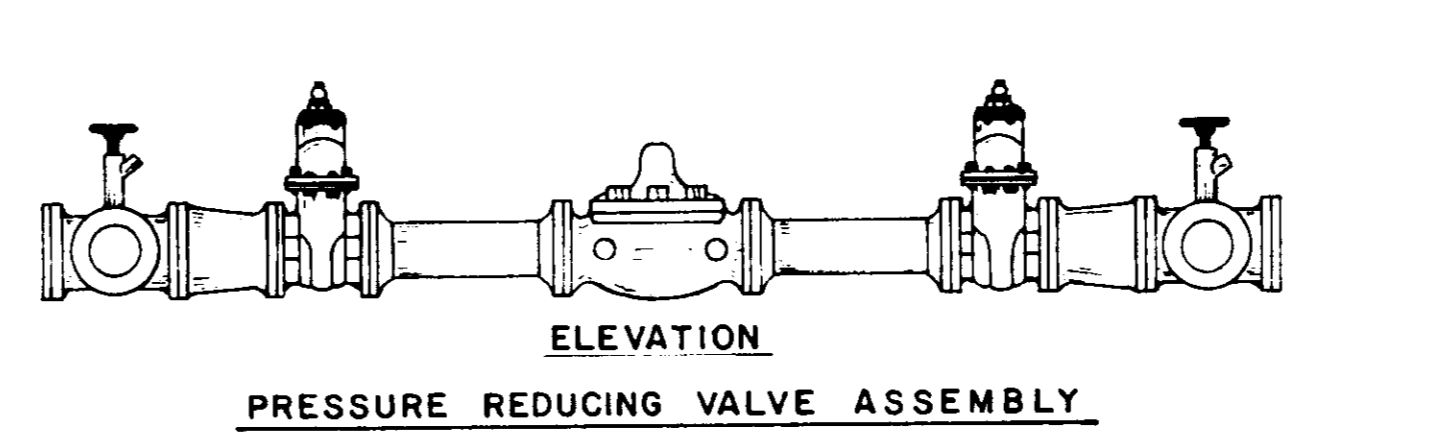
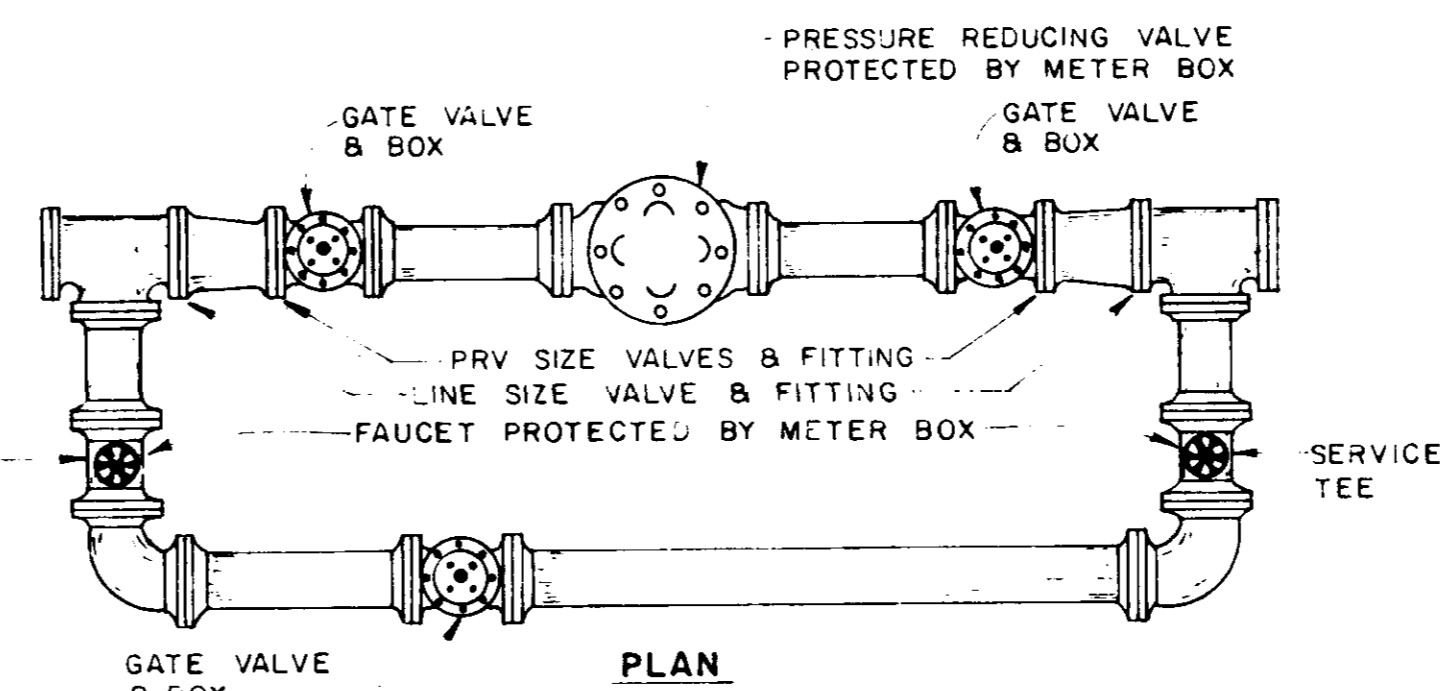
**DETAIL OF EMERGENCY DRAIN**  
TO BE PLACED IN LOW PLACES AS DIRECTED BY THE ENGINEER.



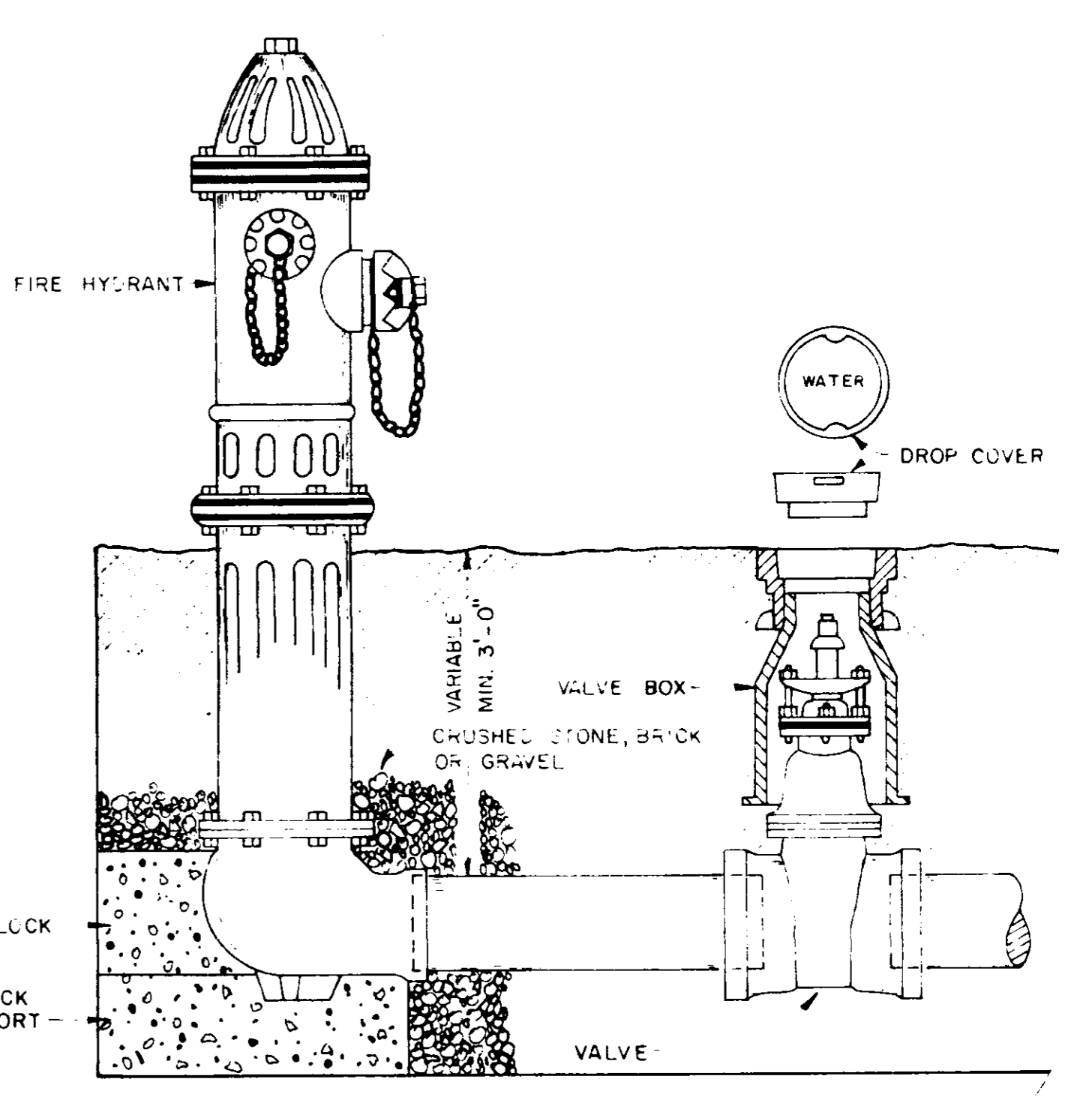
**DETAIL OF AIR RELEASE VALVE**



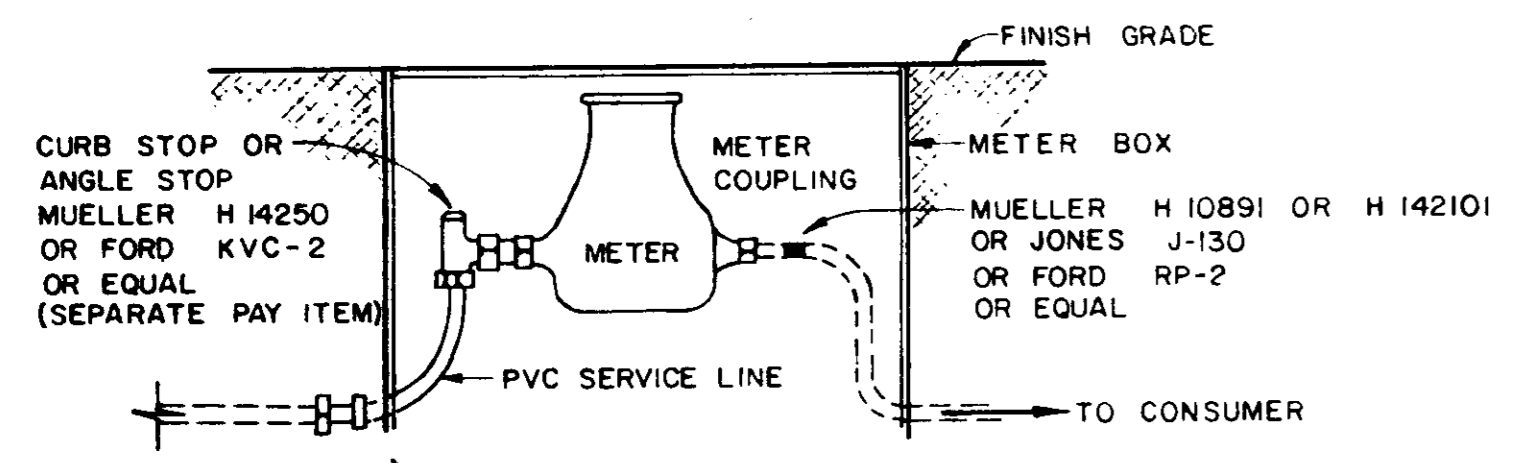
**DETAIL OF VALVE AND VALVE BOX INSTALLATION**



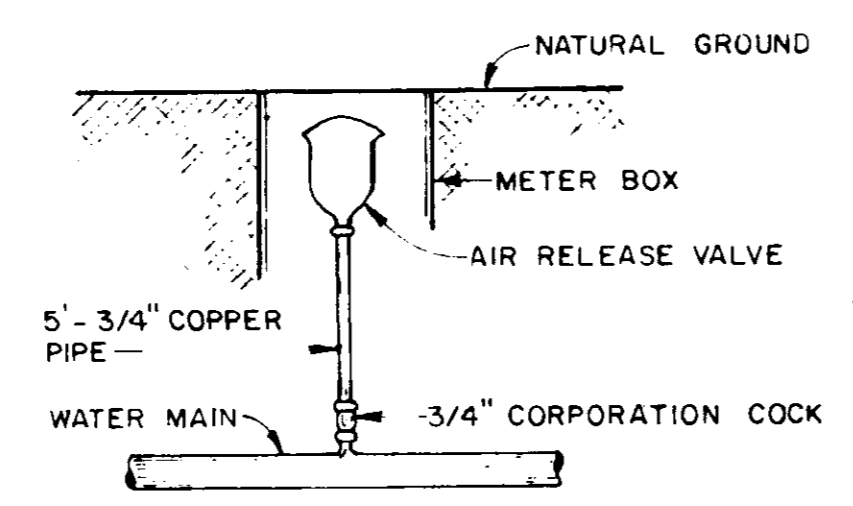
**PRESSURE REDUCING VALVE ASSEMBLY**



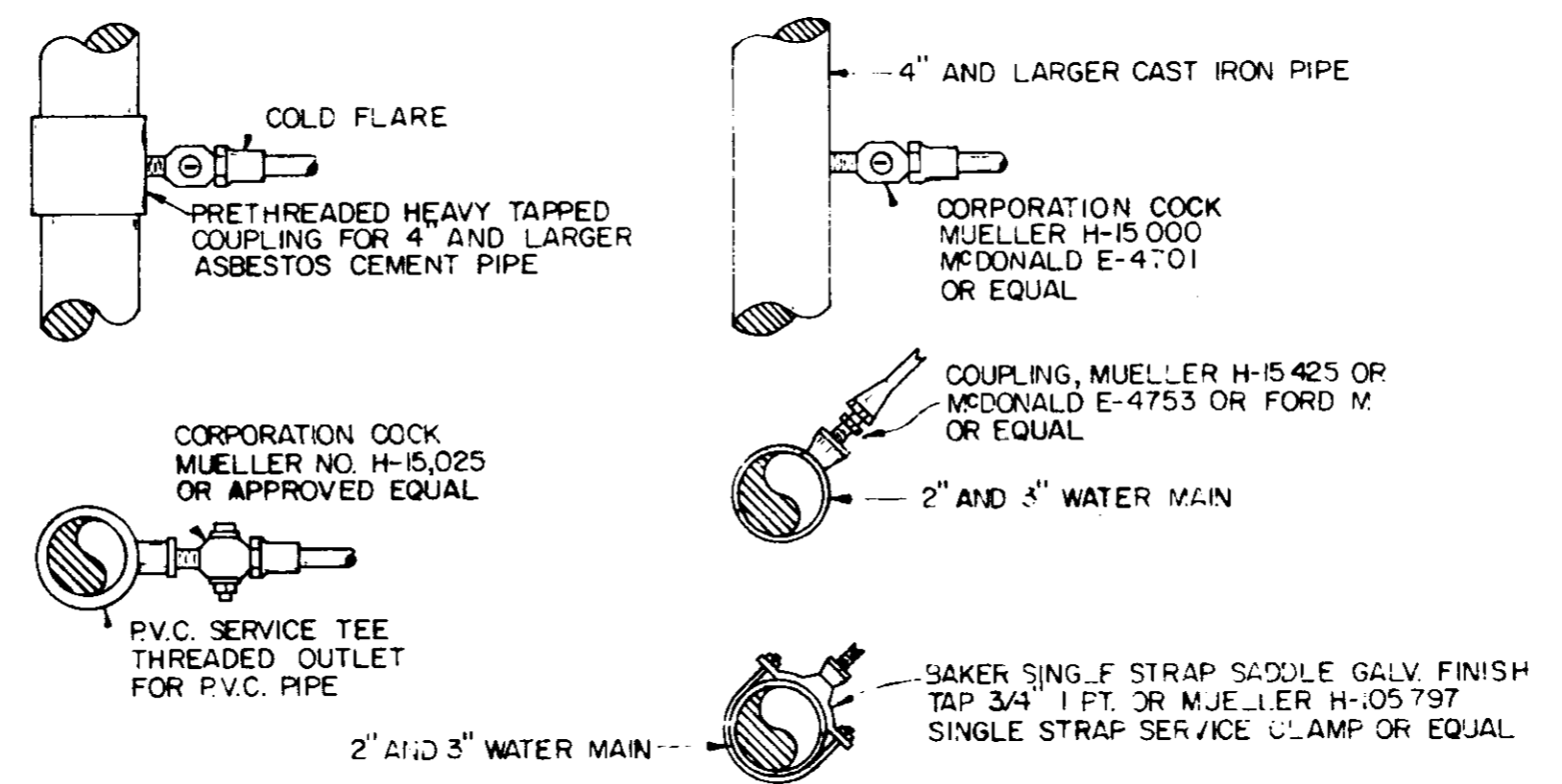
**ELEVATION**



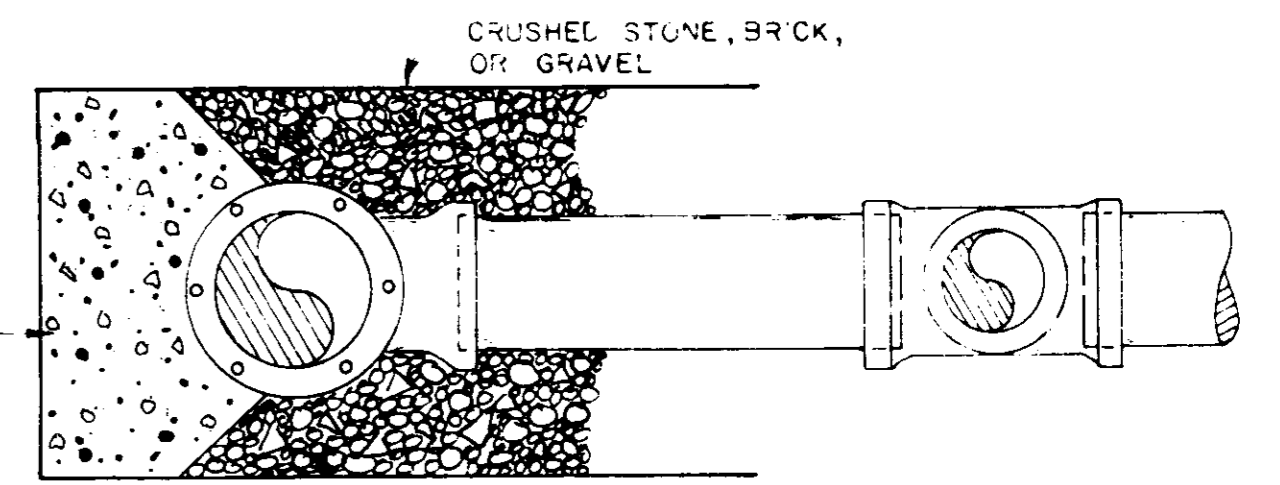
**TYPICAL SERVICE ASSEMBLY**  
TYPE "A" FOR 3/4" x 5/8" METER  
TYPE "B" FOR 3/4" METER  
TYPE "C" FOR 1" METER  
TYPE "D" FOR 1 1/2" METER



**DETAIL OF AUTOMATIC AIR RELEASE VALVE ASSEMBLY**



**WATER SERVICE ASSEMBLY**



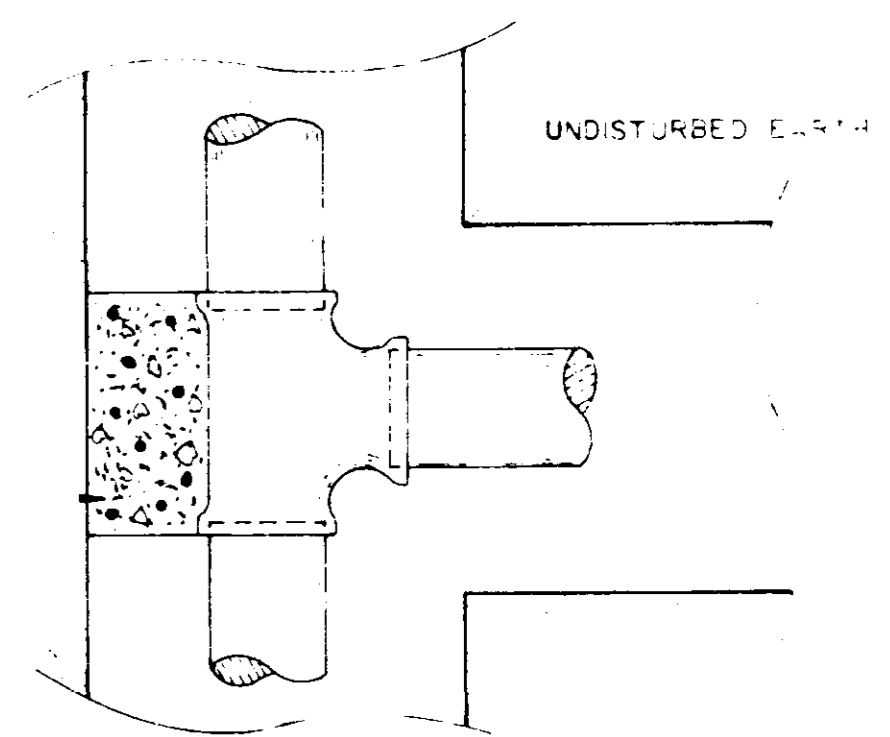
**PLAN**

**AREA OF BEARING FACE OF CONCRETE THRUST BLOCK**

PIPE SIZE	1/4 Bend			1/8 Bend			Plus 8 less		
	CI	AC	PVC	CI	AC	PVC	CI	AC	PVC
4-6	3	3	3	3	3	3	3	3	3
8	3	4	3	3	3	3	3	3	3
10	4	6	3	3	3	3	3	3	3
12	6	8	3	5	4	4			
16	11		4		7				
20	18		8		12				
24	27		12		18				

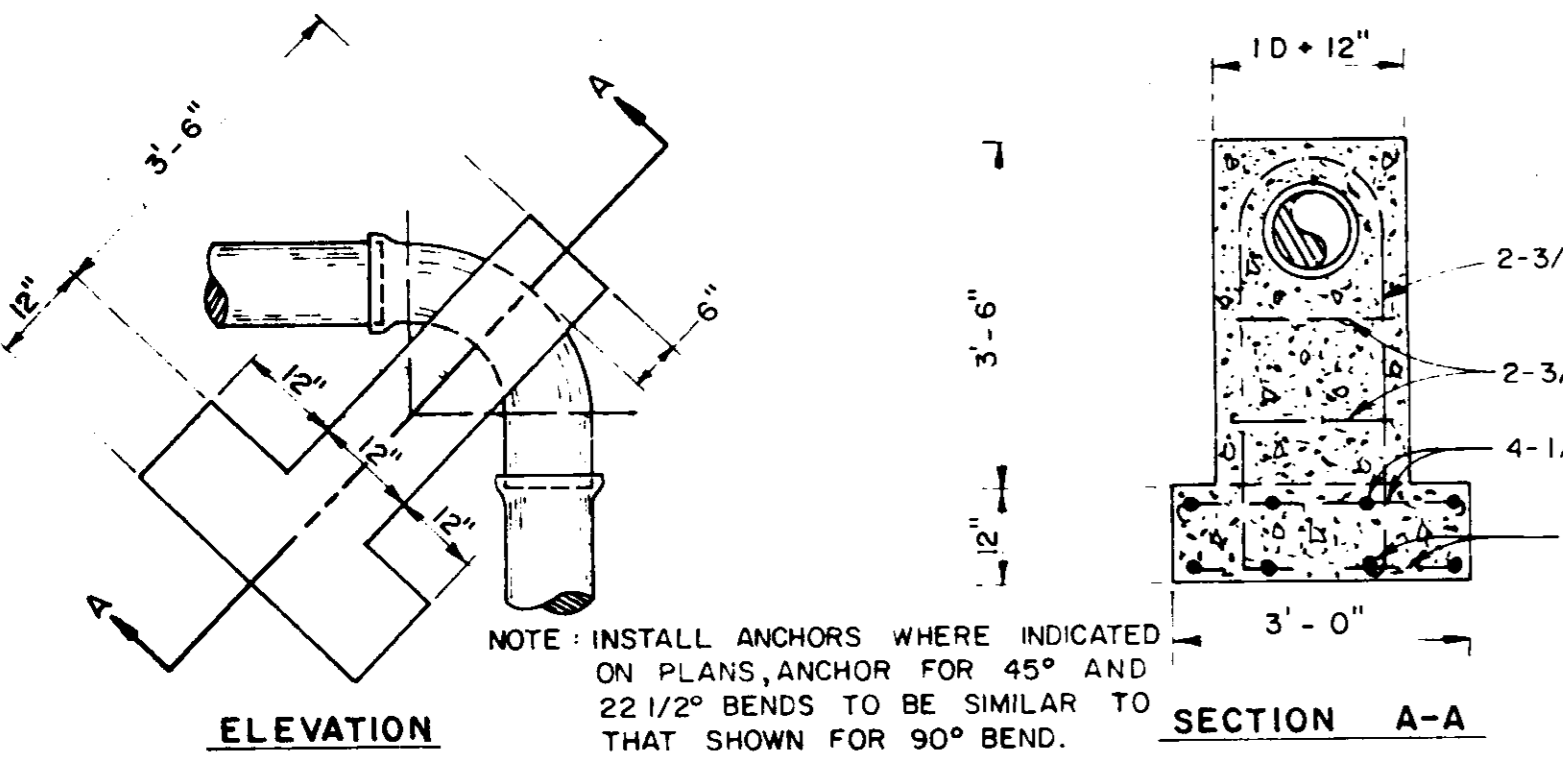
NOTE: AREA OF BEARING FACE IN SQUARE FEET

**FIRE HYDRANT INSTALLATION DETAIL**

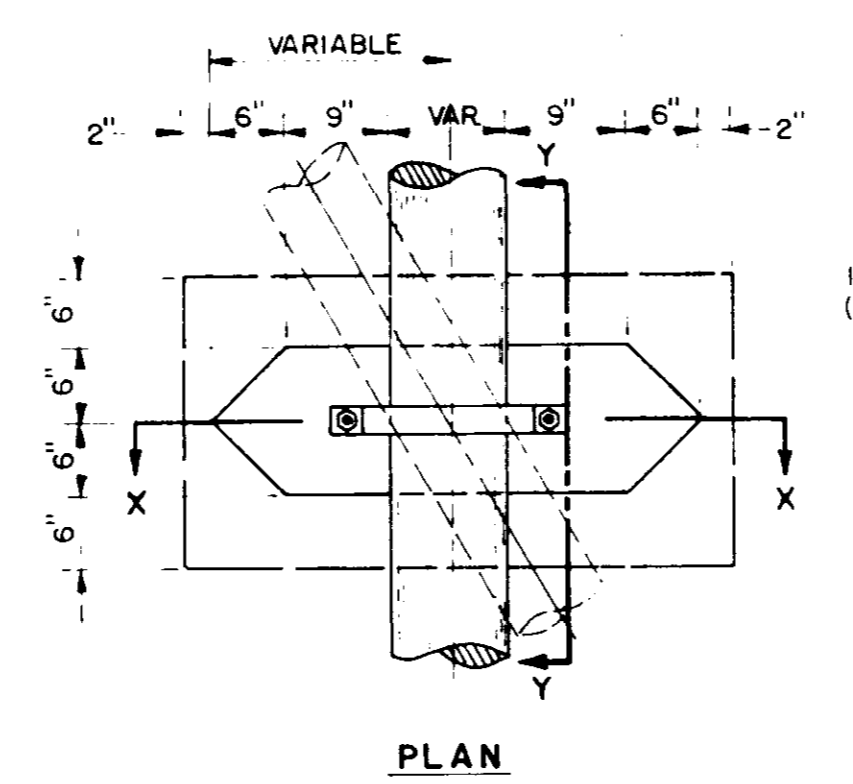


**PLAN**

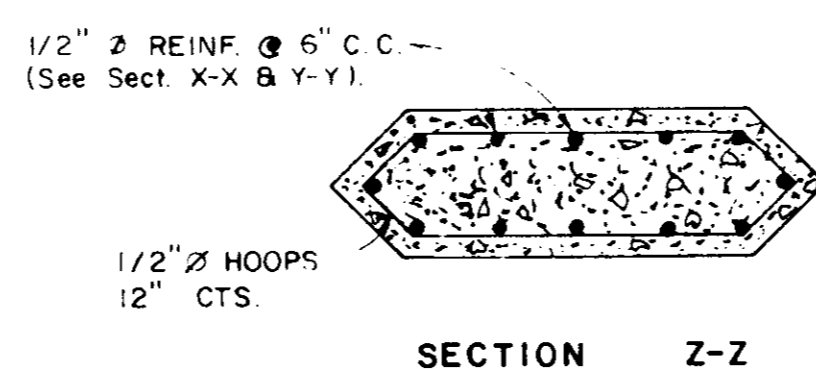
**BLOCKING FOR TEE**



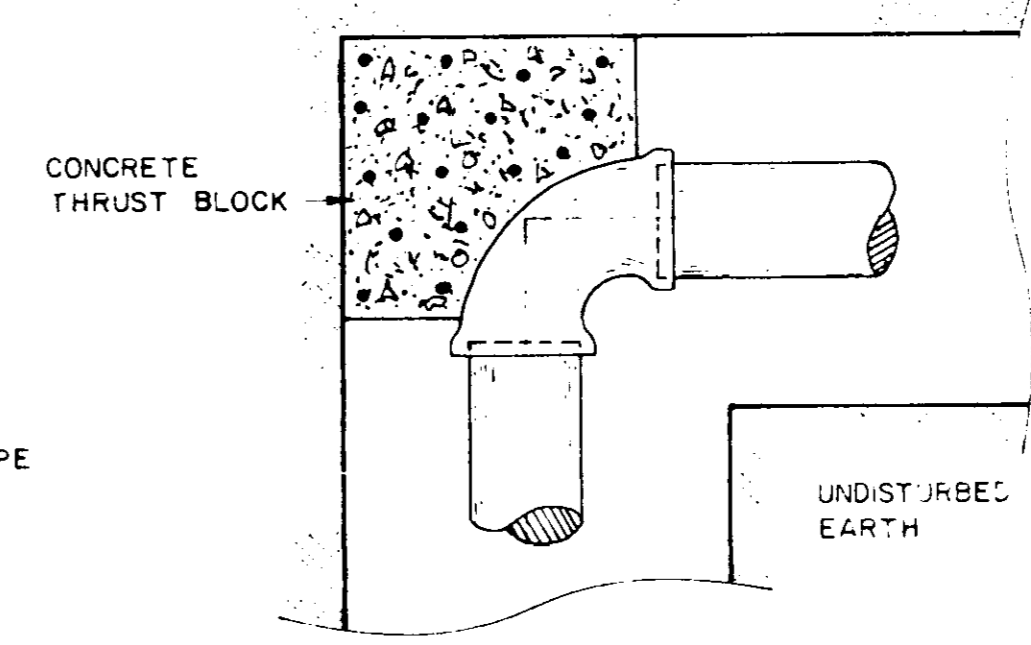
**DETAILS OF CONCRETE ANCHOR FOR VERTICAL BENDS**



**PLAN**

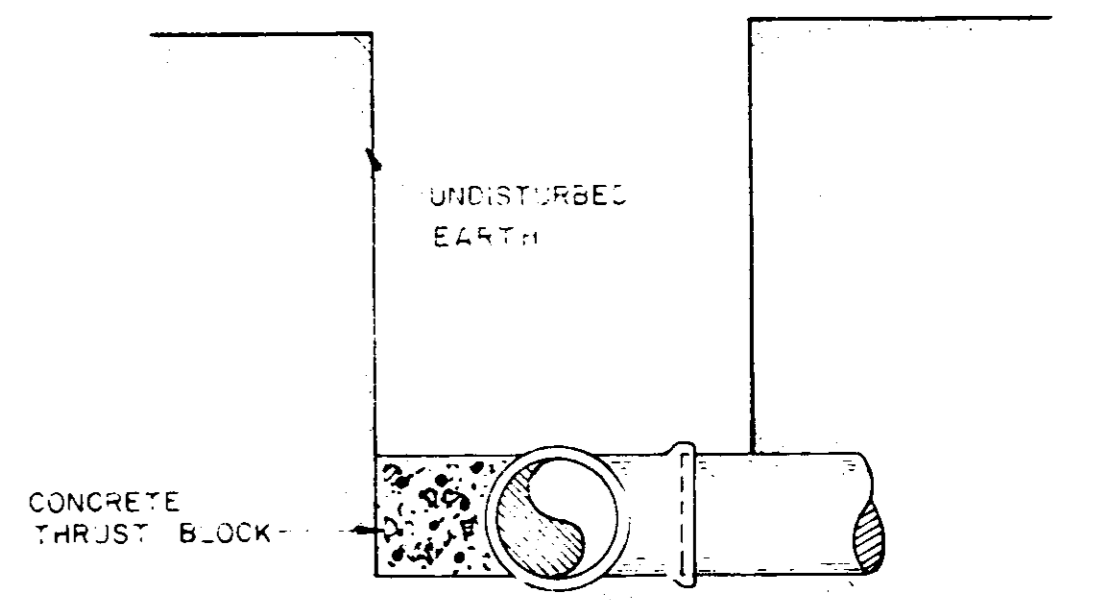


**SECTION Z-Z**

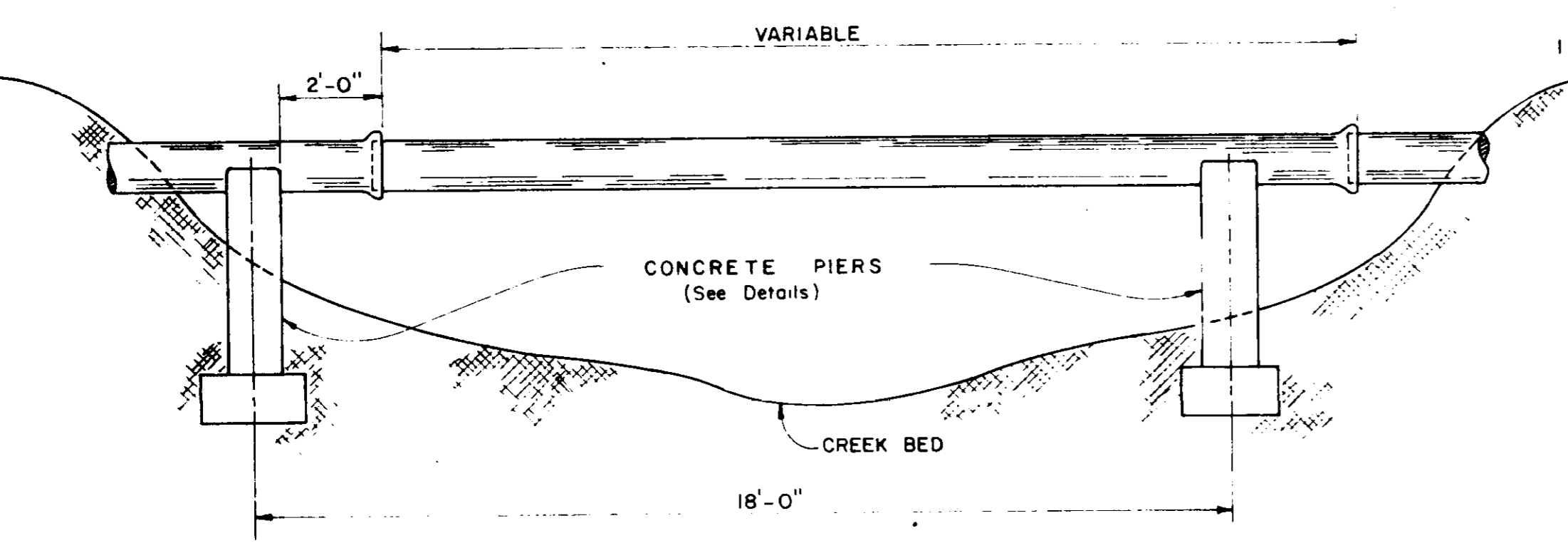


**PLAN**

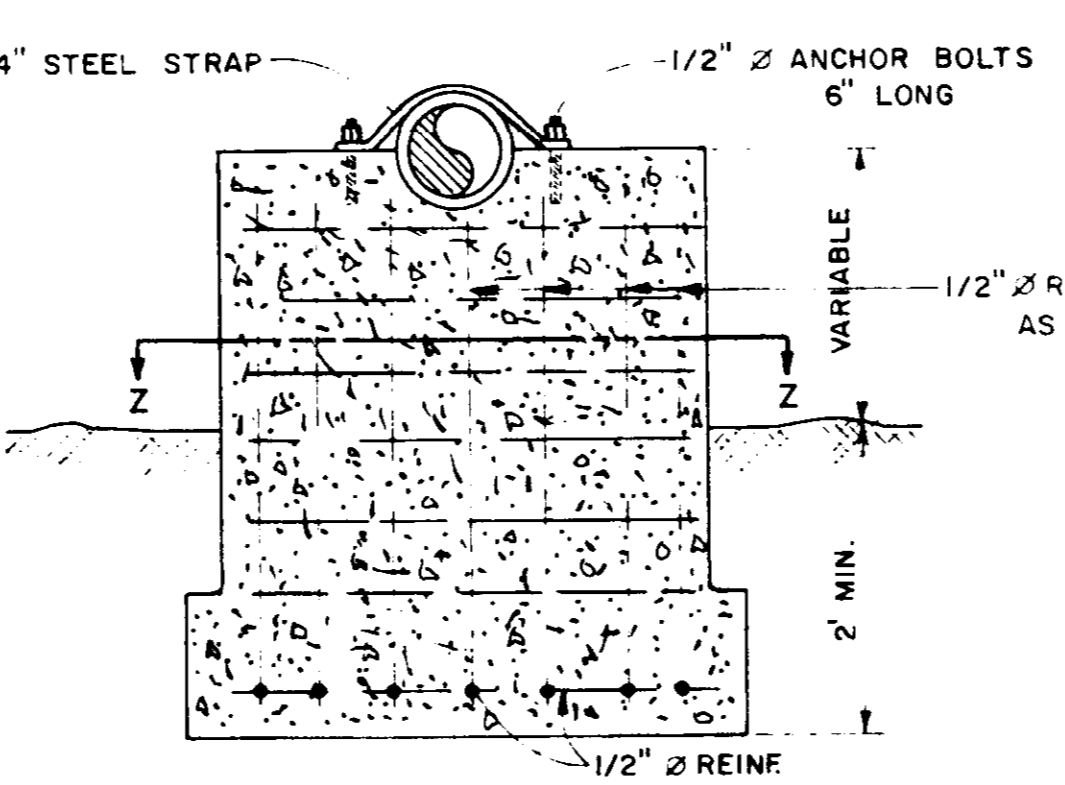
**(DETAILS OF CONCRETE BLOCKING FOR PIPE AND FITTINGS)**



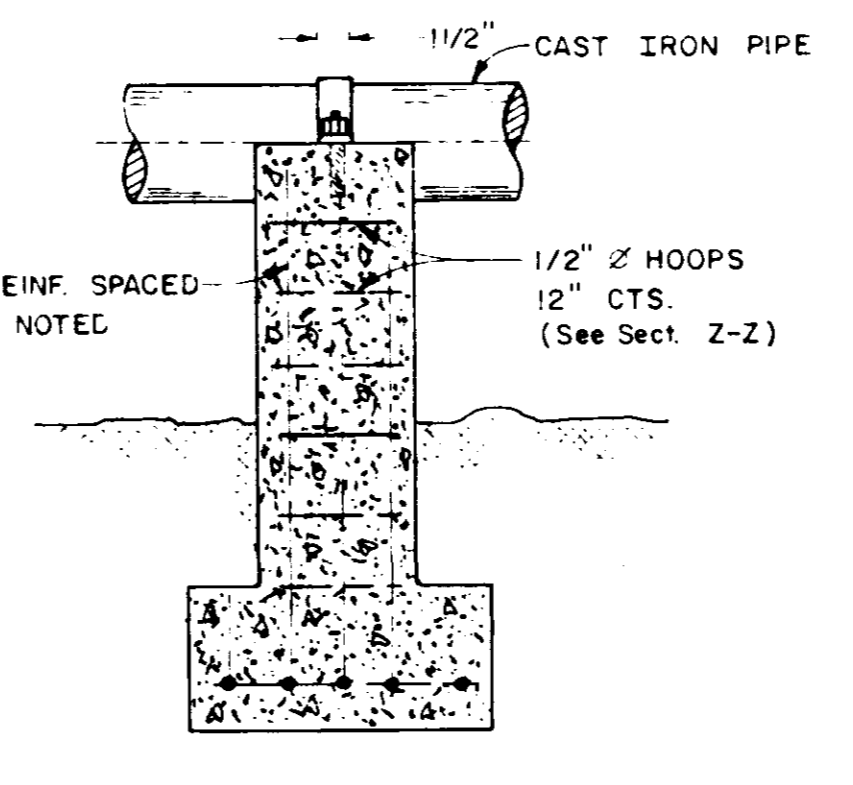
**SECTION**



**TYPICAL CREEK CROSSING INSTALLATION**



**SECTION X-X**



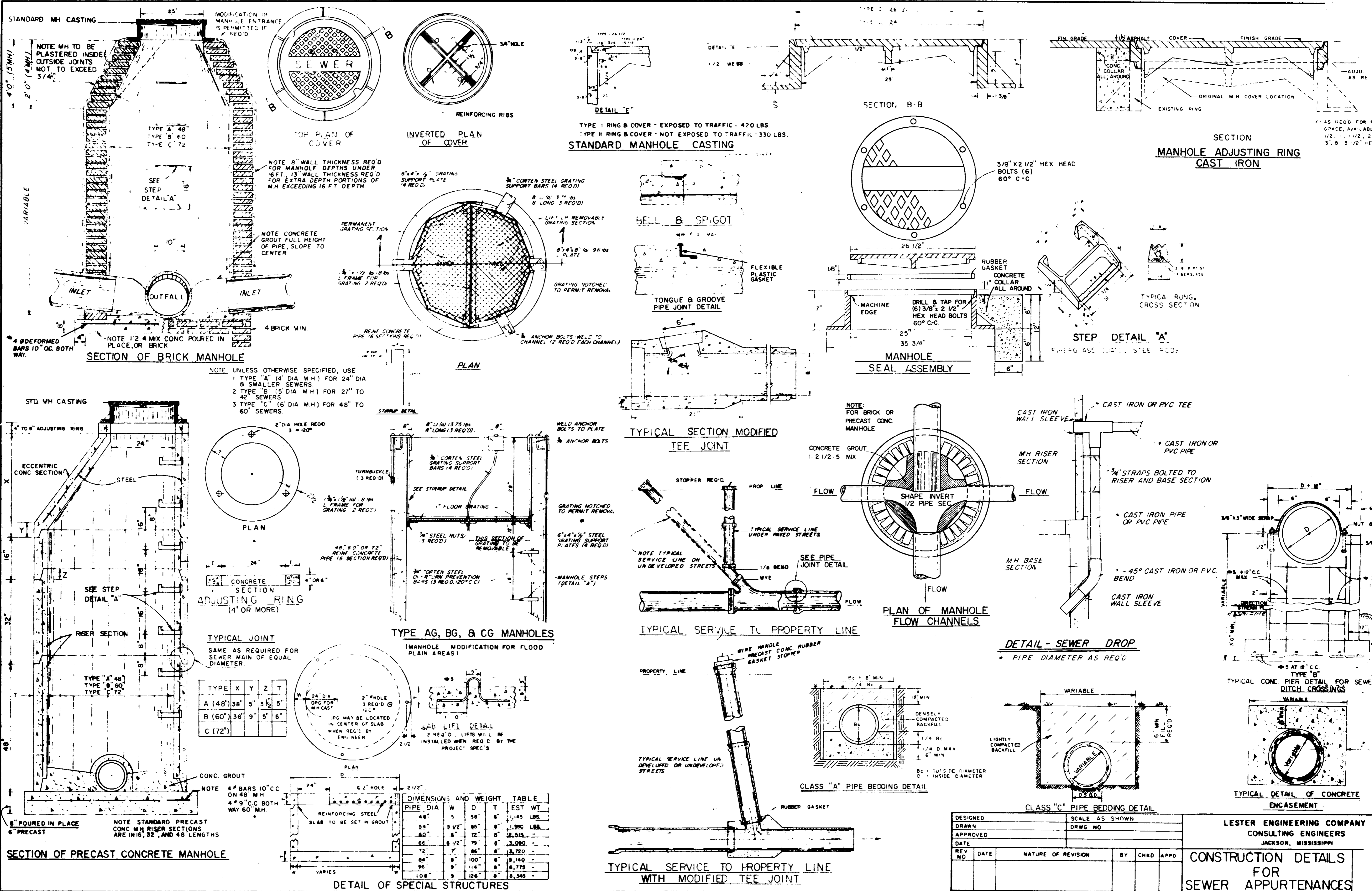
**SECTION Y-Y**

**CONCRETE PIER DETAILS**

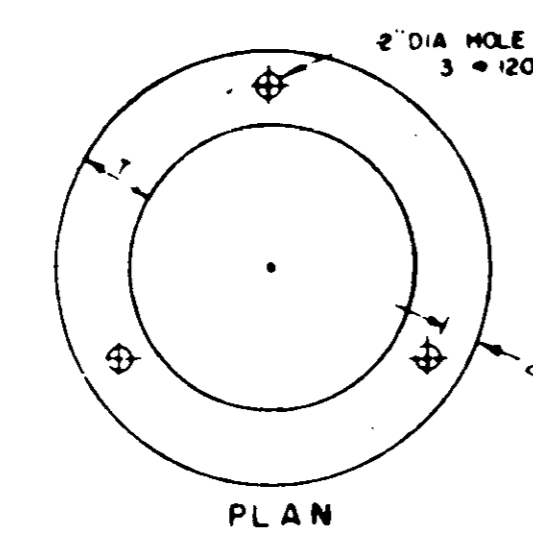
DESIGNED:	SCALE:			
DRAWN:	DRWG. NO.:			
APPROVED:				
DATE:				
REV. NO.	DATE	NATURE OF REVISION	BY	CHKD/APPD

**LESTER ENGINEERING CO.**  
CONSULTING ENGINEER  
JACKSON, MISSISSIPPI

CONSTRUCTION DETAILS  
WATER DISTRIBUTION SYSTEM



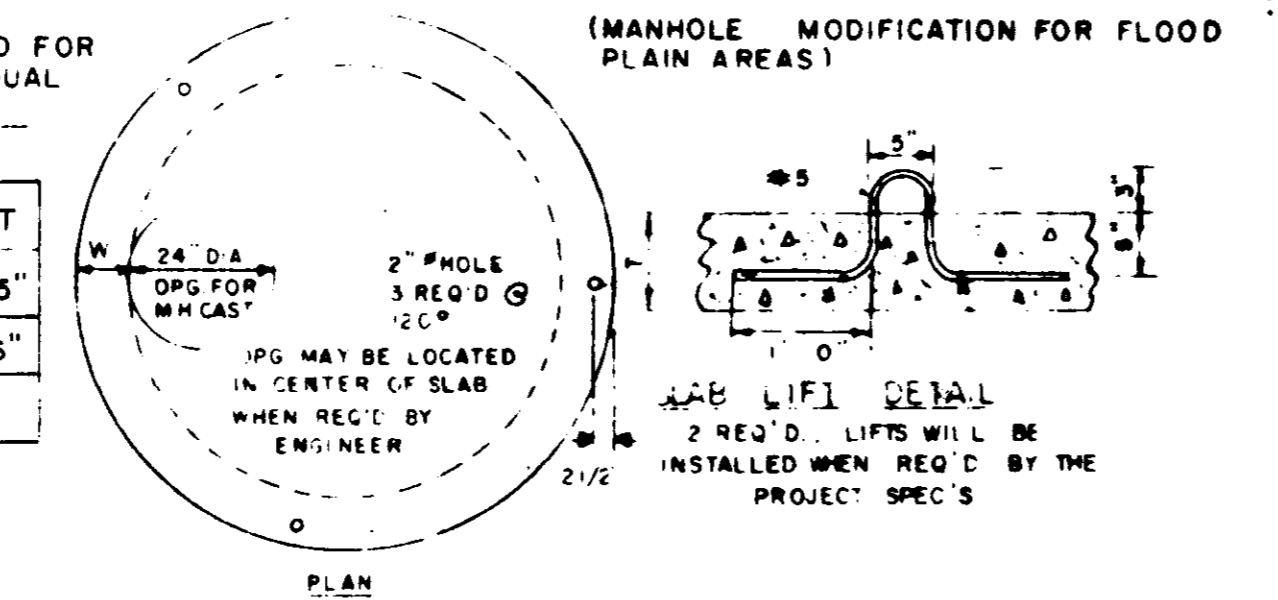
- NOTE: UNLESS OTHERWISE SPECIFIED, USE
1. TYPE "A" (4" DIA M.H.) FOR 24" DIA & SMALLER SEWERS
  2. TYPE "B" (5" DIA M.H.) FOR 27" TO 42" SEWERS
  3. TYPE "C" (6" DIA M.H.) FOR 48" TO 60" SEWERS



**TYPICAL JOINT**  
 SAME AS REQUIRED FOR SEWER MAIN OF EQUAL DIAMETER.

TYPE	X	Y	Z	T
A (48")	38"	5"	3 1/2"	5"
B (60")	36"	9"	5"	6"
C (72")				

**TYPE AG, BG, & CG MANHOLES**  
 (MANHOLE MODIFICATION FOR FLOOD PLAIN AREAS)



**DIMENSIONS AND WEIGHT TABLE**

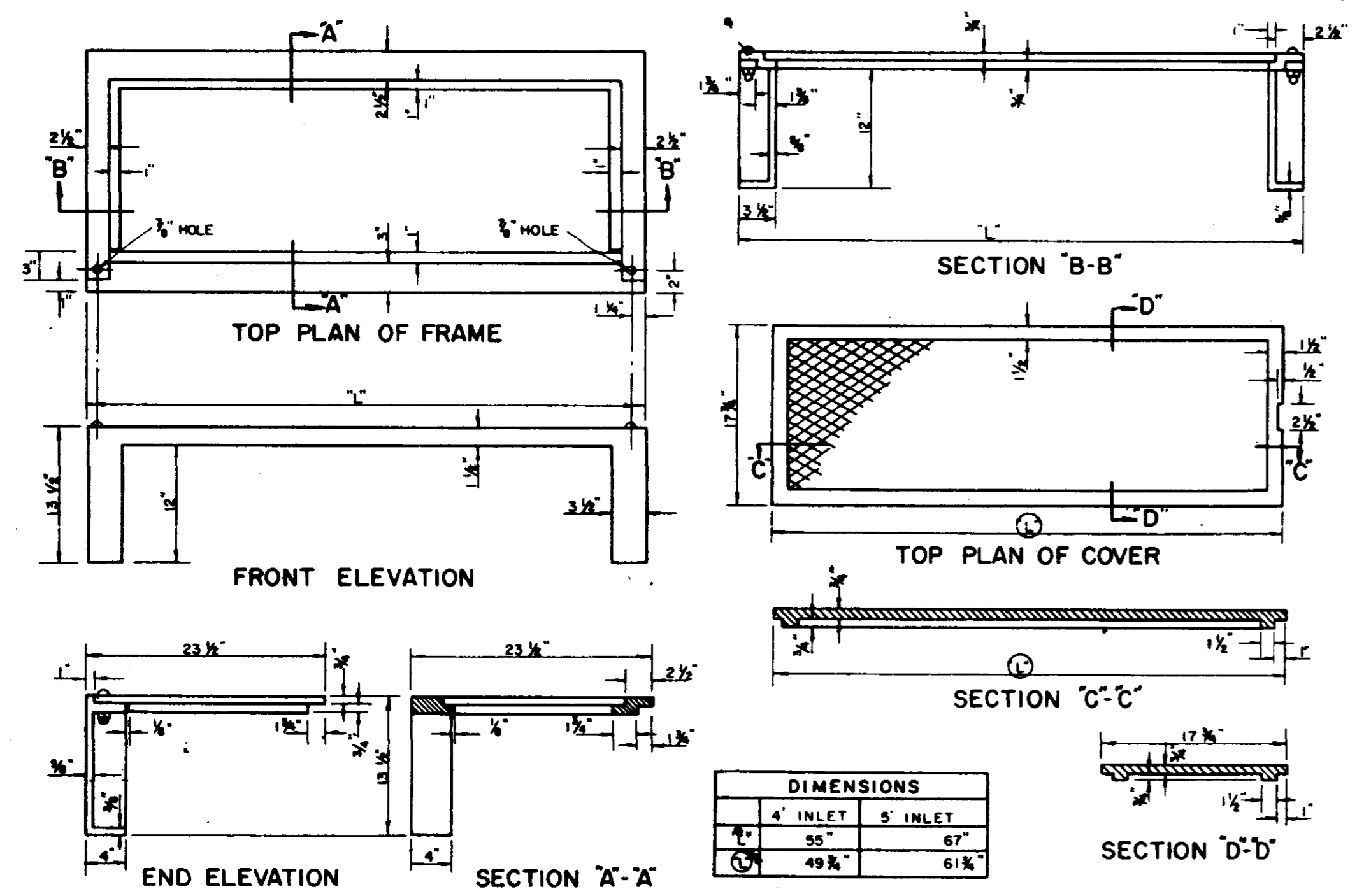
PIPE DIA.	W	D	T	EST. WT.
48"	5"	58"	6"	1,145 LBS.
54"	5 1/2"	65"	6"	1,390 LBS.
60"	6"	72"	6"	1,635 LBS.
66"	6 1/2"	79"	6"	1,880 LBS.
72"	7"	86"	6"	2,125 LBS.
78"	7 1/2"	93"	6"	2,370 LBS.
84"	8"	100"	6"	2,615 LBS.
90"	8 1/2"	107"	6"	2,860 LBS.
96"	9"	114"	6"	3,105 LBS.
102"	9 1/2"	121"	6"	3,350 LBS.

DESIGNED: \_\_\_\_\_ SCALE AS SHOWN  
 DRAWN: \_\_\_\_\_ DRWG. NO. \_\_\_\_\_  
 APPROVED: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 REV. NO. \_\_\_\_\_ DATE \_\_\_\_\_ NATURE OF REVISION \_\_\_\_\_ BY \_\_\_\_\_ CHKD. \_\_\_\_\_ APPD. \_\_\_\_\_

**LESTER ENGINEERING COMPANY**  
 CONSULTING ENGINEERS  
 JACKSON, MISSISSIPPI

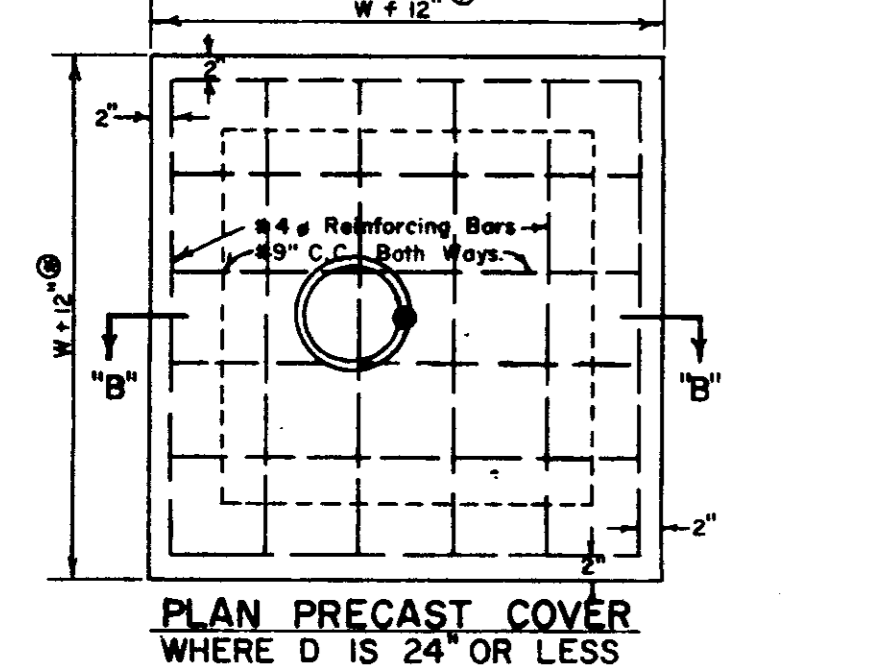
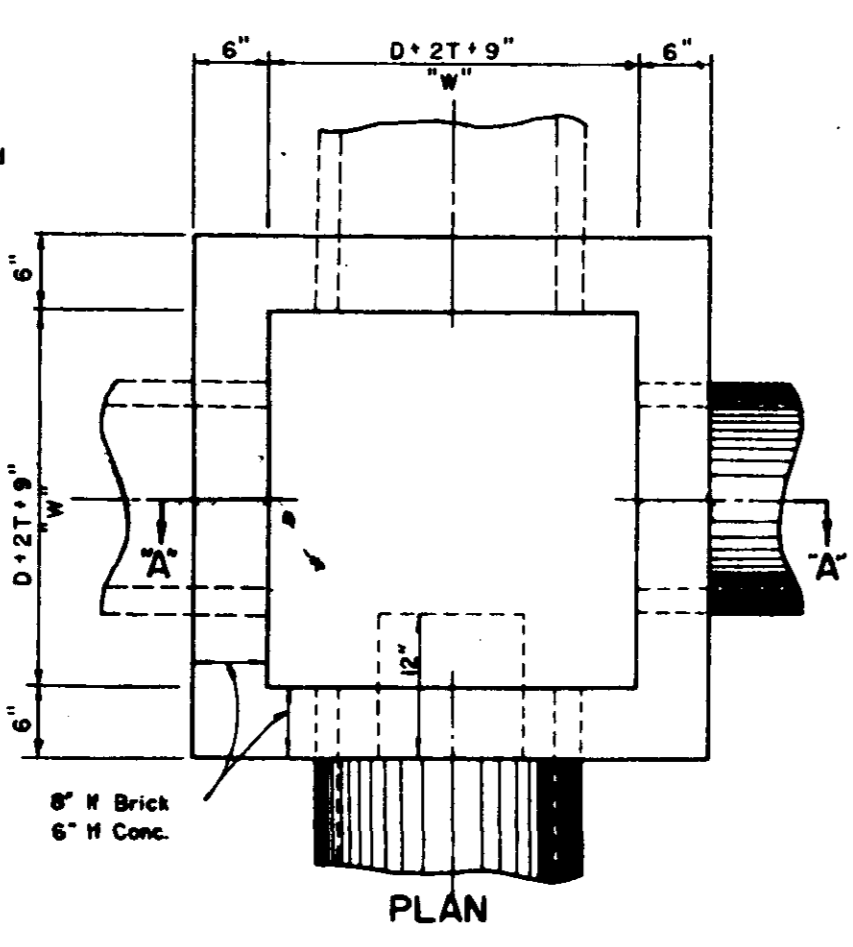
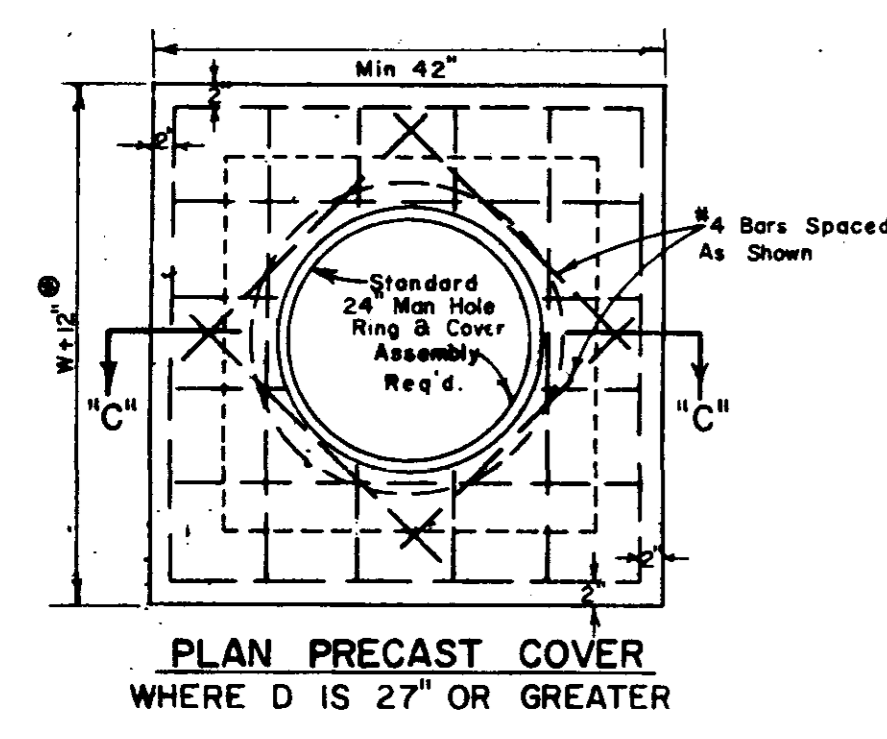
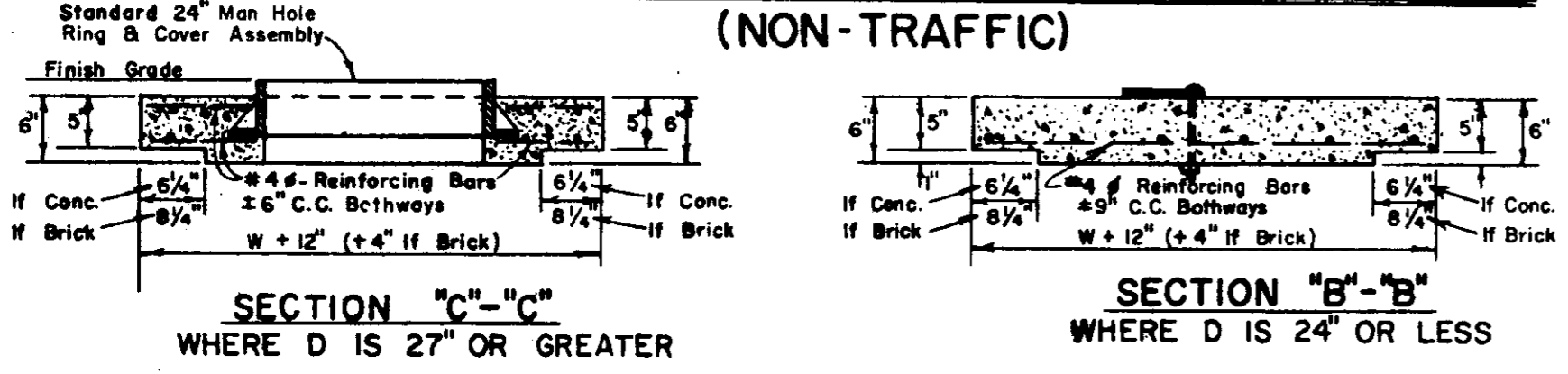
**CONSTRUCTION DETAILS FOR SEWER APPURTENANCES**

1991  
 Overlook  
 Davis



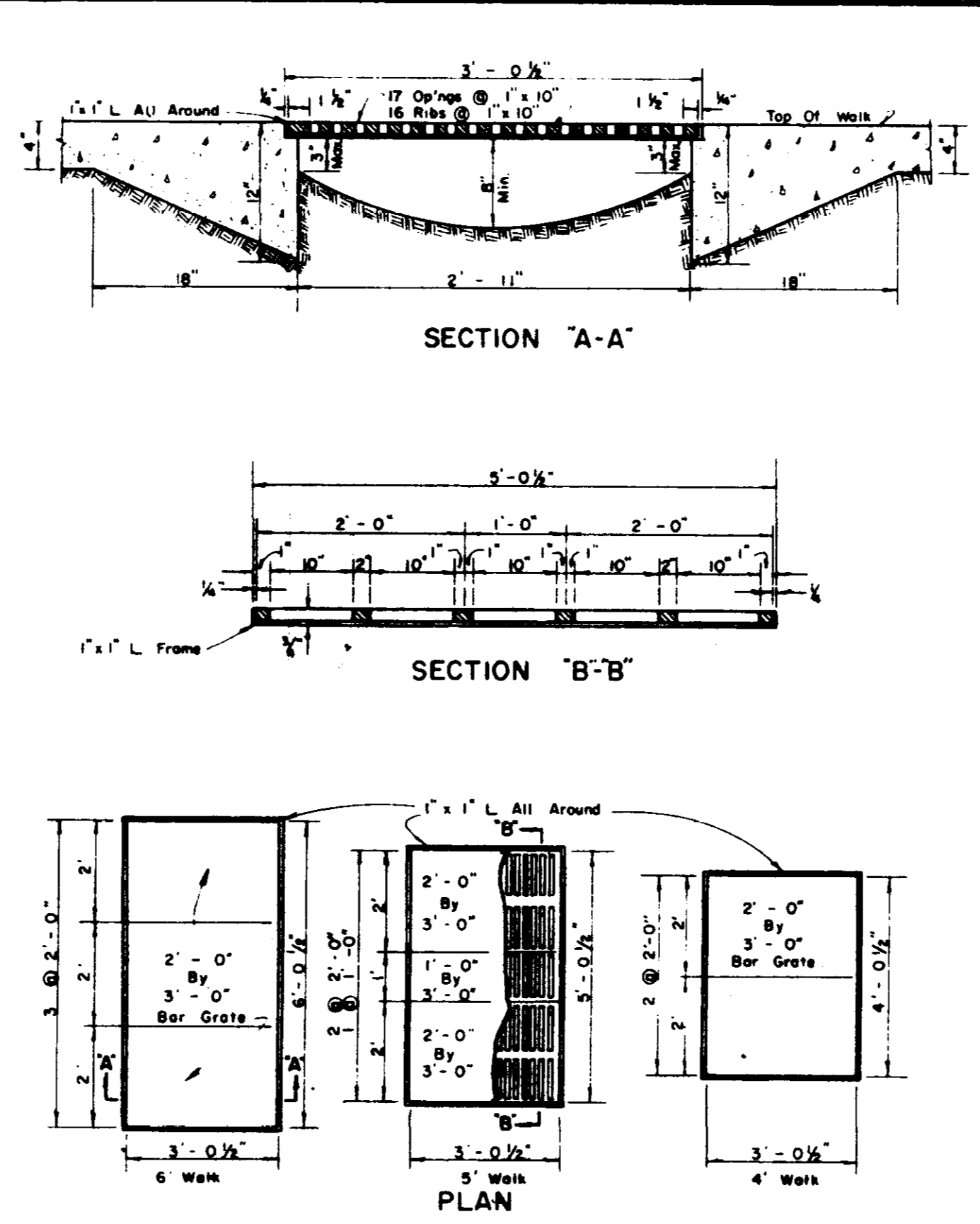
DIMENSIONS	
4" INLET	5" INLET
55"	67"
49 3/4"	61 3/4"

**CURB INLET CASTING DETAILS**  
(NON-TRAFFIC)

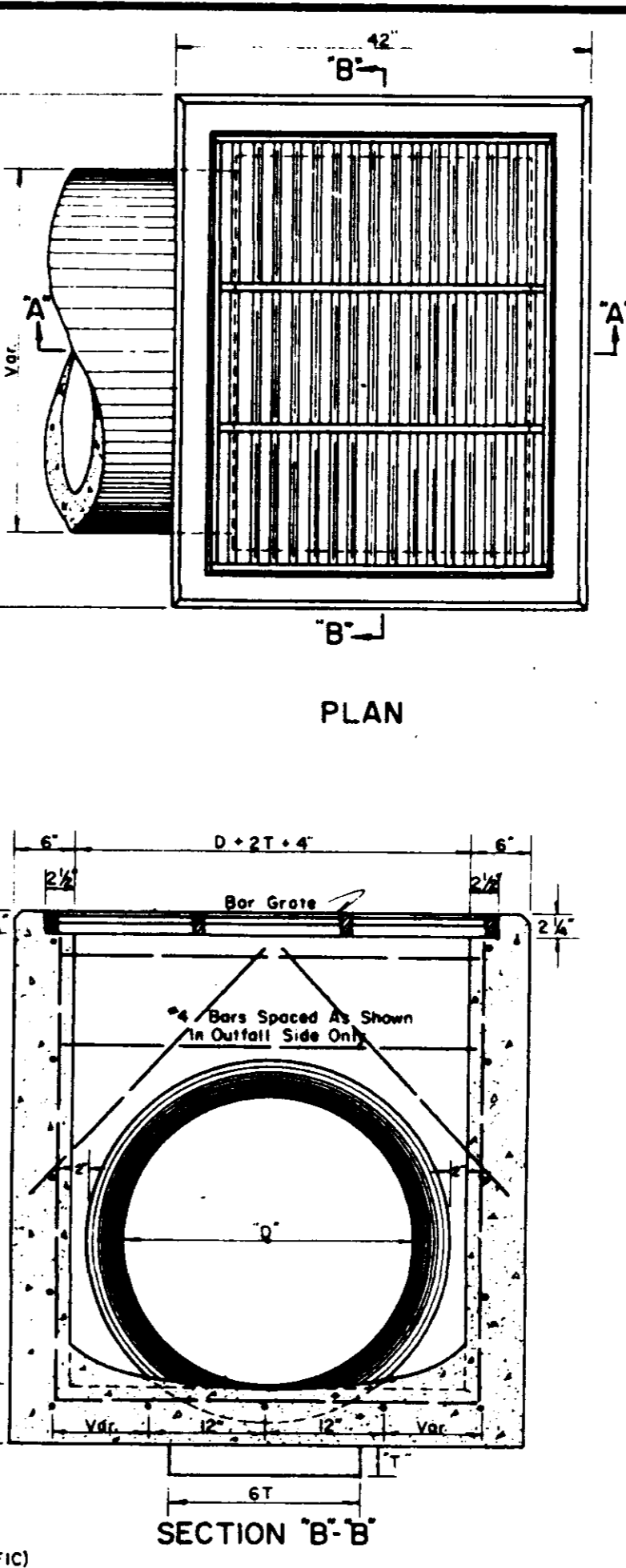
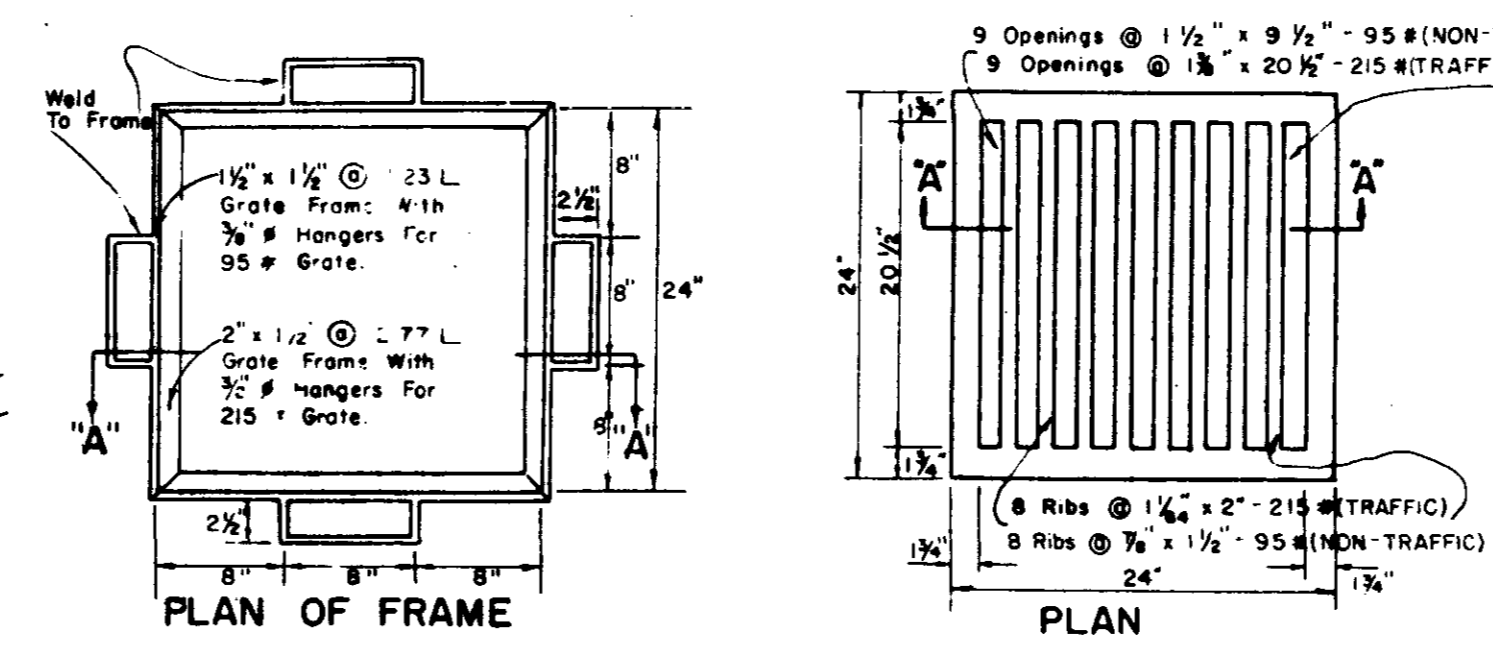


CONCRETE		JUNCTION		BOX	
DIMENSIONS		QUANTITIES		BAR LIST	
DIAM.	W.	MIN. DEPTH	EX. ADDED (T)	CONC.	STEEL
IN.	IN.	IN.	IN.	CU. YD.	LB.
12"	24"	18"	0.13	0.04	10 # 2-3"
18"	36"	27"	0.21	0.04	10 # 3-3"
24"	48"	36"	0.33	0.04	10 # 3-3"
30"	60"	45"	0.48	0.04	10 # 3-3"
36"	72"	54"	0.67	0.04	10 # 3-3"
42"	84"	63"	0.90	0.04	10 # 3-3"
48"	96"	72"	1.17	0.04	10 # 3-3"
54"	108"	81"	1.50	0.04	10 # 3-3"
60"	120"	90"	1.87	0.04	10 # 3-3"
66"	132"	99"	2.28	0.04	10 # 3-3"
72"	144"	108"	2.73	0.04	10 # 3-3"
78"	156"	117"	3.21	0.04	10 # 3-3"
84"	168"	126"	3.72	0.04	10 # 3-3"
90"	180"	135"	4.27	0.04	10 # 3-3"
96"	192"	144"	4.86	0.04	10 # 3-3"
102"	204"	153"	5.48	0.04	10 # 3-3"

**JUNCTION BOX DETAILS**

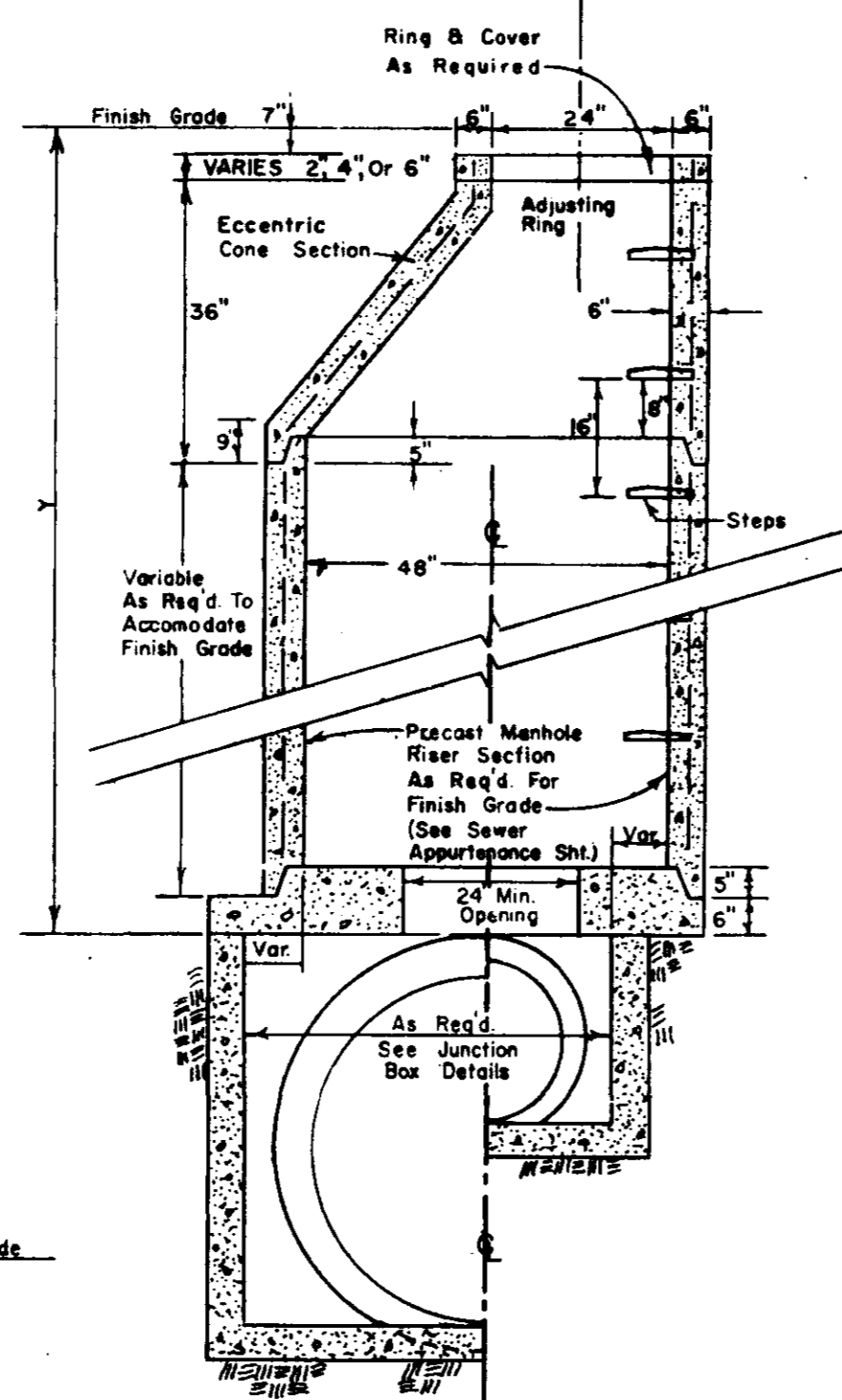


**WALK GRATING DETAILS**  
(NON-TRAFFIC)

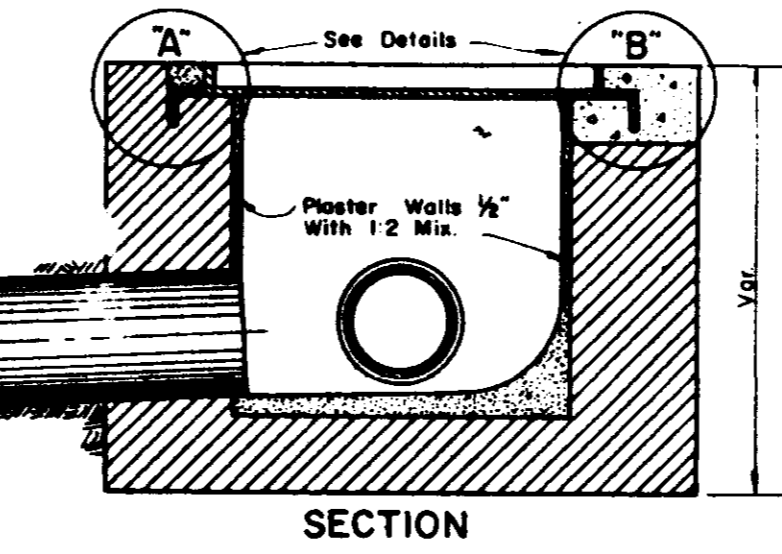
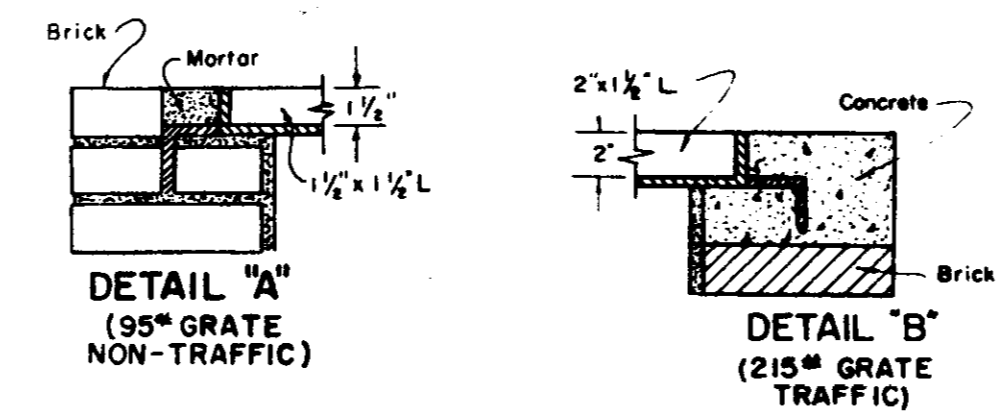


**OPEN AREA INLET DETAILS**  
(NON-TRAFFIC)

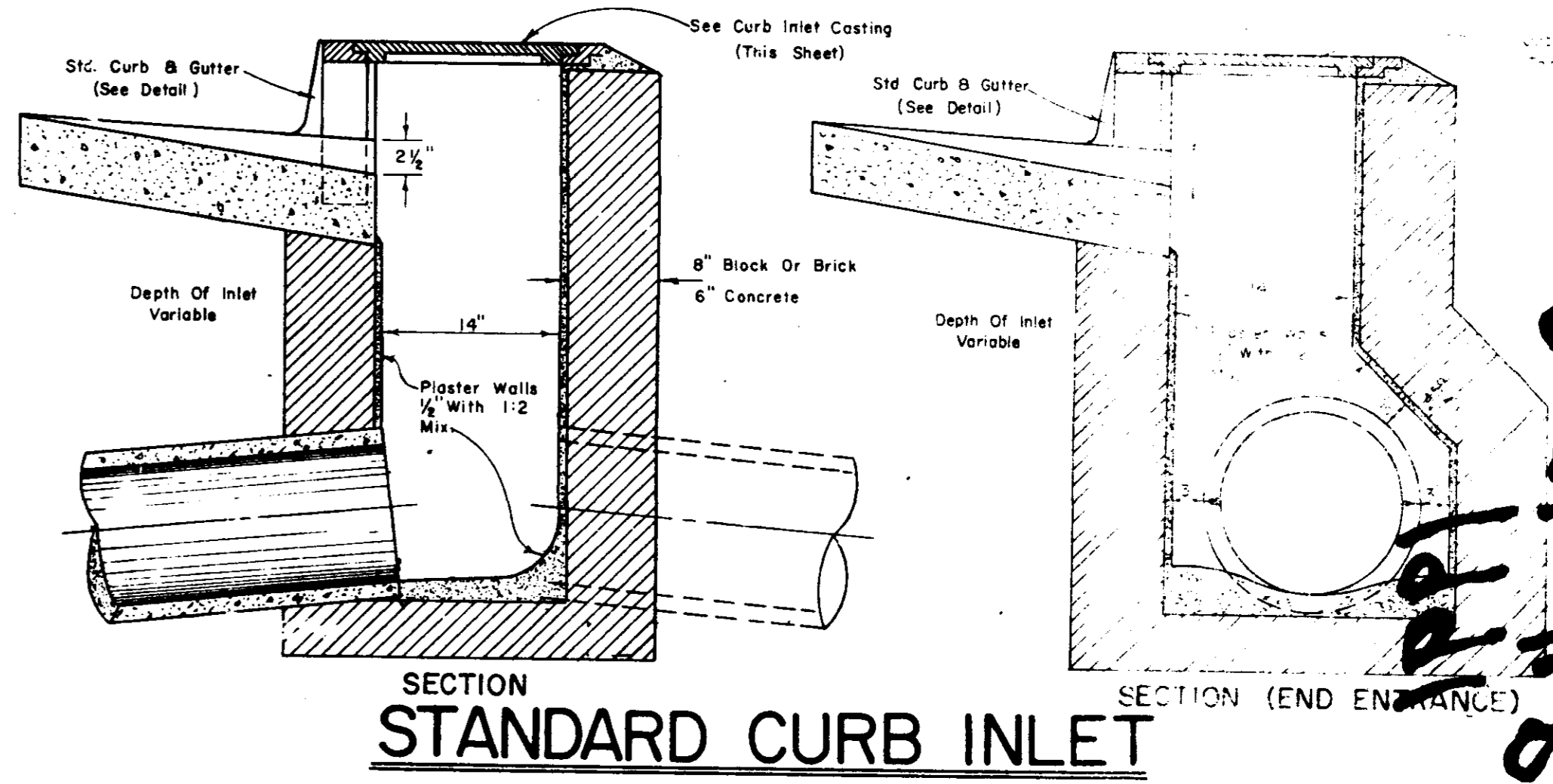
SIZE PIPE	MIN. DEPTH	QUANTITIES FOR GRATE INLET		QUANTITIES & DIM. FOR BAR GRATE	
		CONC.	STEEL	NO. X SPANS	WT. LB.
036	15"	2.47	0.85	2	116
048	18"	3.67	1.20	2	124
060	21"	4.87	1.55	2	133
072	24"	6.07	1.90	2	142
084	27"	7.27	2.25	2	151
096	30"	8.47	2.60	2	160
108	33"	9.67	2.95	2	169
120	36"	10.87	3.30	2	178
132	39"	12.07	3.65	2	187
144	42"	13.27	4.00	2	196
156	45"	14.47	4.35	2	205
168	48"	15.67	4.70	2	214
180	51"	16.87	5.05	2	223
192	54"	18.07	5.40	2	232
204	57"	19.27	5.75	2	241
216	60"	20.47	6.10	2	250



**RISER DETAILS**  
FOR USE WHEN Y IS 49" OR GREATER



**GRATE INLET & COVER DETAILS**



**STANDARD CURB INLET**

DESIGNED:	SCALE: NONE
DRAWN: T. B.	DRW. NO.: 89-284
APPROVED:	
DATE:	
REV. NO.	DATE
	NATURE OF REVISION
	BY
	CHKD.
	APPD.

LESTER ENGINEERING COMPANY  
CONSULTING ENGINEERS  
JACKSON, MISSISSIPPI

**STANDARD STORM SEWER APPURTENANCES**

1991  
 Overlook  
 Davis