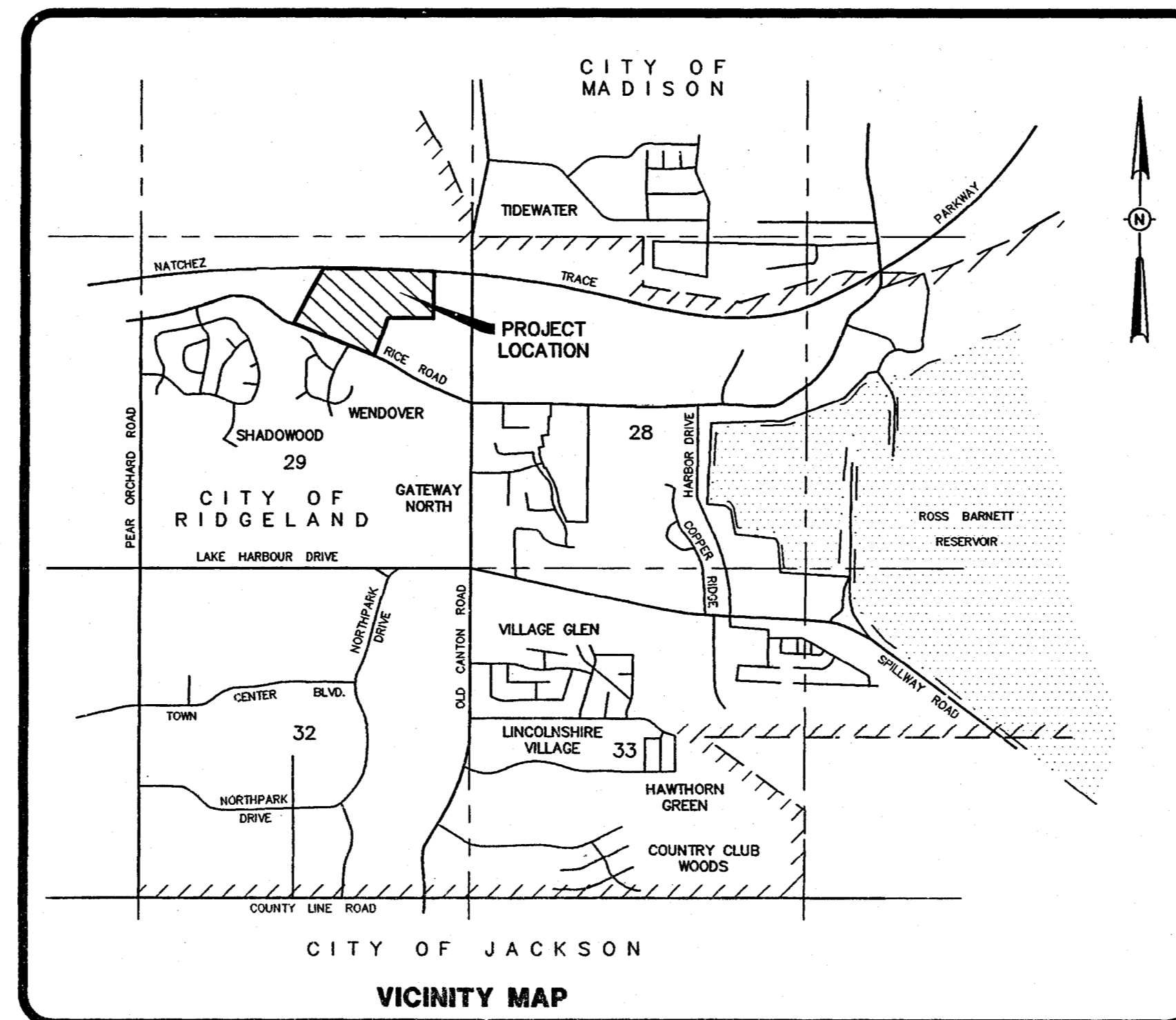
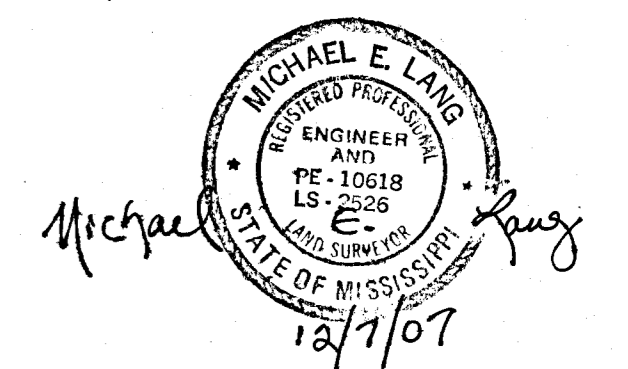


# RECORD DRAWINGS FOR GALLAGHER'S PASS



### DRAWING INDEX

- 1 - COVER SHEET
- 2 - GEOMETRIC LAYOUT
- 3 - DRAINAGE LAYOUT
- 4 - SEWER AND WATER LAYOUT
- 4A - AS-BUILT SEWER AND WATER SERVICE LAYOUT
- 5 - EROSION, SEDIMENT AND STORMWATER CONTROL PLAN
- 6 - PLAN AND PROFILE - GALLAGHER'S PASS (STA. 1+00 TO STA. 8+33.24)
- 7 - PLAN AND PROFILE - SIDE-STREET (STA. 1+00 TO STA. 6+15.47)  
PLAN AND PROFILE - DRAIN LINE "A"
- 8 - CITY OF RIDGELAND STANDARD DETAILS
- 9 - CITY OF RIDGELAND STANDARD DETAILS
- 10 - CITY OF RIDGELAND STANDARD DETAILS
- 11 - CITY OF RIDGELAND STANDARD DETAILS
- 12 - CITY OF RIDGELAND STANDARD DETAILS



PWP-00709

DRAWING NO.: PROJECTS\2008\06028\GALLAGHER'S PASS\06-CVR.DWG

**H D LANG AND ASSOCIATES, INC.**  
POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236  
601-362-4886

CLIENT  
**RICE ROAD DEVELOPMENT, LLC**  
1 WATERFORD PLACE  
JACKSON, MISSISSIPPI 39211

LOCATION  
SITUATED IN  
EAST 1/2 OF THE NORTHWEST 1/4 AND  
THE NORTHWEST 1/4 OF THE NORTHEAST 1/4 OF  
SECTION 29, TOWNSHIP 7 NORTH - RANGE 2 EAST,  
CITY OF RIDGELAND  
MADISON COUNTY, MISSISSIPPI

DATE	REVISION	BY	DRAWN BY: CLS
12-1-07	RECORD DRAWINGS	DLM	DATE: 02-06-07
			SCALE:
			BOOK: PAGE:
			PROJECT NO.: 06-028

SHEET

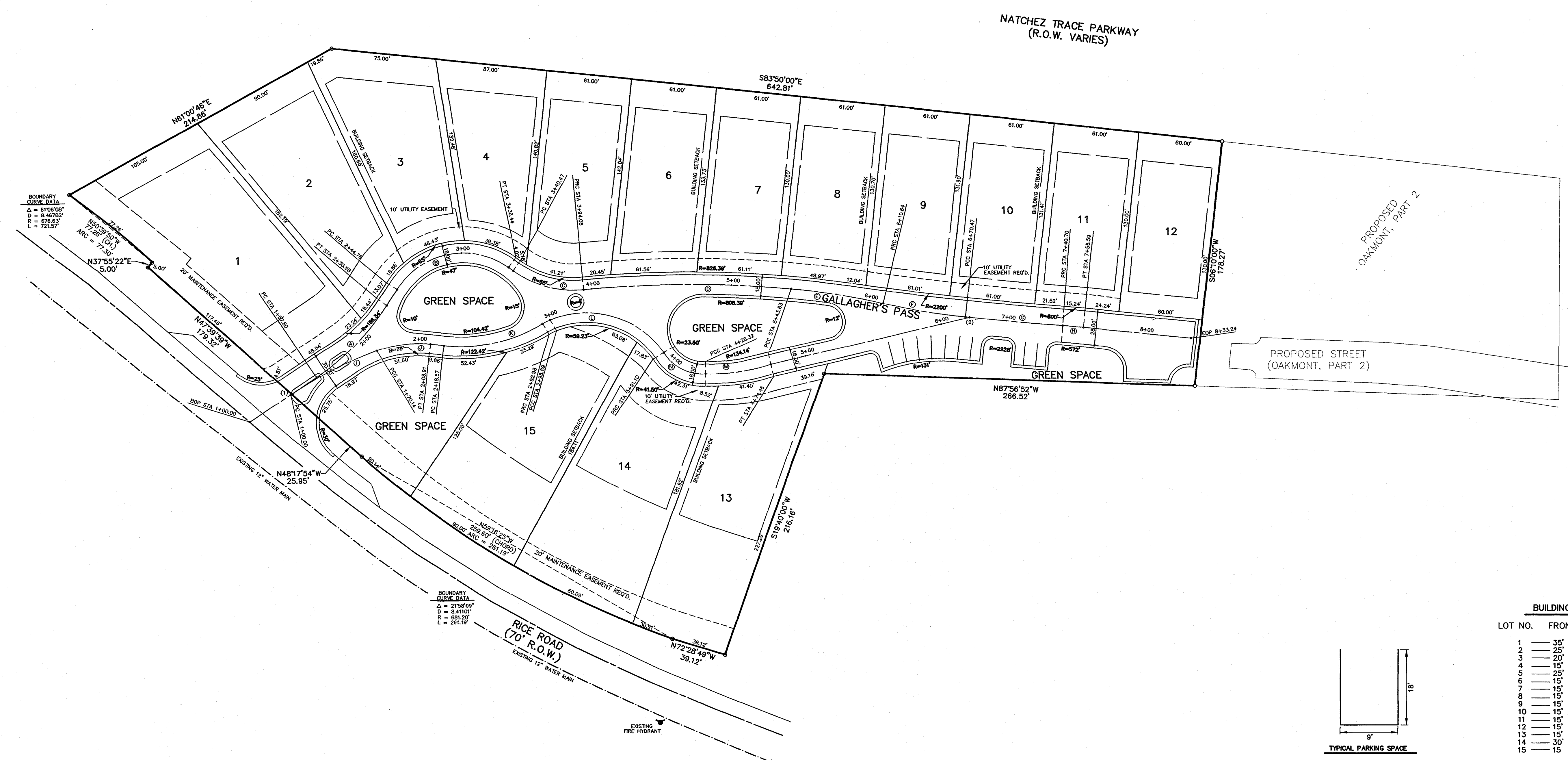
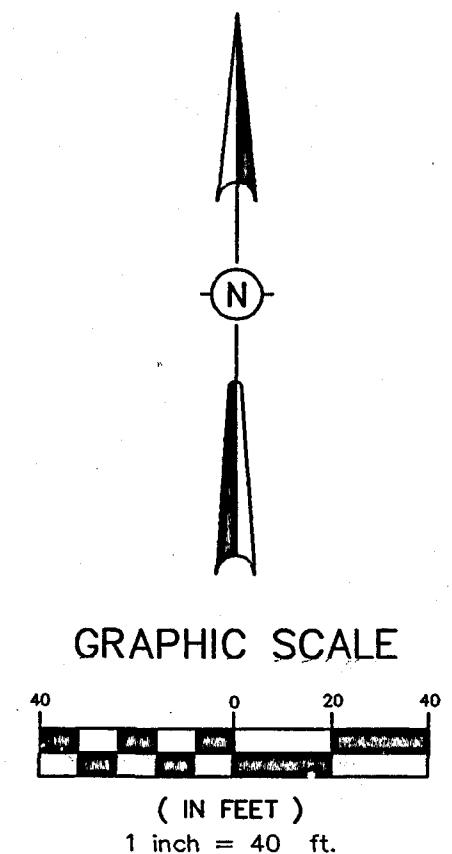
1

**CENTERLINE INTERSECTIONS**

- (1) STA. 1+35.35 GALLAGHER'S PASS- STA. 1+00 SOUTH PASS
- (2) STA. 6+73.29 GALLAGHER'S PASS- STA. 6+20.78 SOUTH PASS

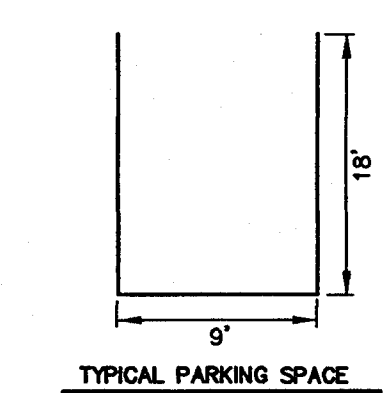
**CENTERLINE CURVE DATA**

① Δ = 23°54'43" D = 32.74056' R = 175.00' L = 73.09'	② Δ = 83°48'25" D = 102.31389' R = 56.00' L = 91.69'	③ Δ = 41°30'37" D = 77.42867' R = 74.00' L = 53.61'	④ Δ = 107°28'58" D = 7.00972' R = 817.39' L = 149.55'	⑤ Δ = 07°42'44" D = 51.45917' R = 500.00' L = 33.54'
⑥ Δ = 08°51'21" D = 11.45917' R = 500.00' L = 58.83'	⑦ Δ = 01°49'03" D = 2.21400' R = 224.00' L = 70.23'	⑧ Δ = 01°27'20" D = 9.77750' R = 588.00' L = 7.44'	⑨ Δ = 13°49'14" D = 18.70258' R = 290.76' L = 70.14'	⑩ Δ = 26°27'05" D = 68.30917' R = 84.00' L = 38.78'
⑪ Δ = 37°35'04" D = 50.51556' R = 113.47' L = 74.40'	⑫ Δ = 77°25'49" D = 83.98778' R = 68.24' L = 92.21'	⑬ Δ = 19°05'44" D = 39.68944' R = 144.43' L = 46.14'	⑭ Δ = 62°05'51" D = 145.65278' R = 39.28' L = 23.63'	



**BUILDING SETBACKS**

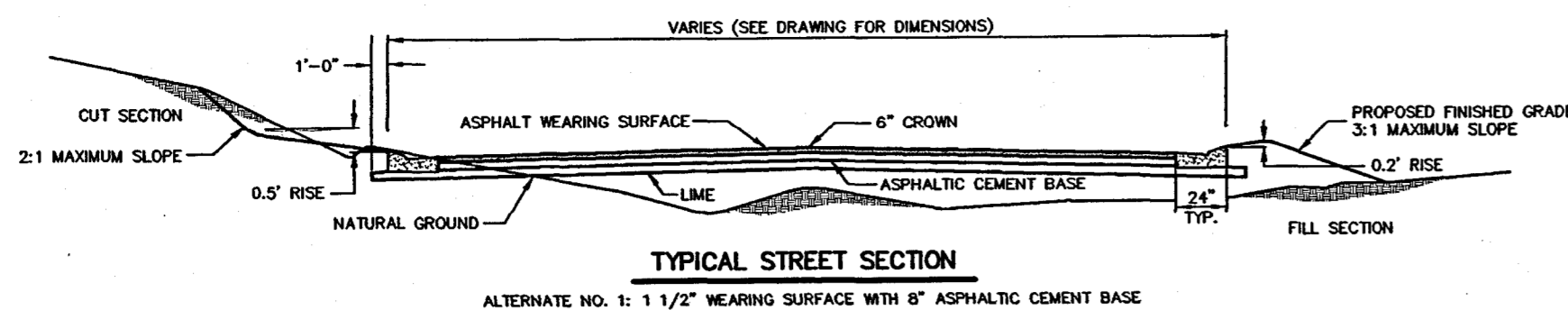
LOT NO.	FRONT	REAR	SIDE
1	35'	20'	5' (30' ON LEFT)
2	25'	20'	5'
3	20'	20'	5'
4	15'	20'	5'
5	25'	20'	5'
6	15'	20'	5'
7	15'	20'	5'
8	15'	20'	5'
9	15'	20'	5'
10	15'	20'	5'
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12	15'	20'	5'
13	15'	95'	5'
14	30'	95'	5'
15	15'	75'	5'



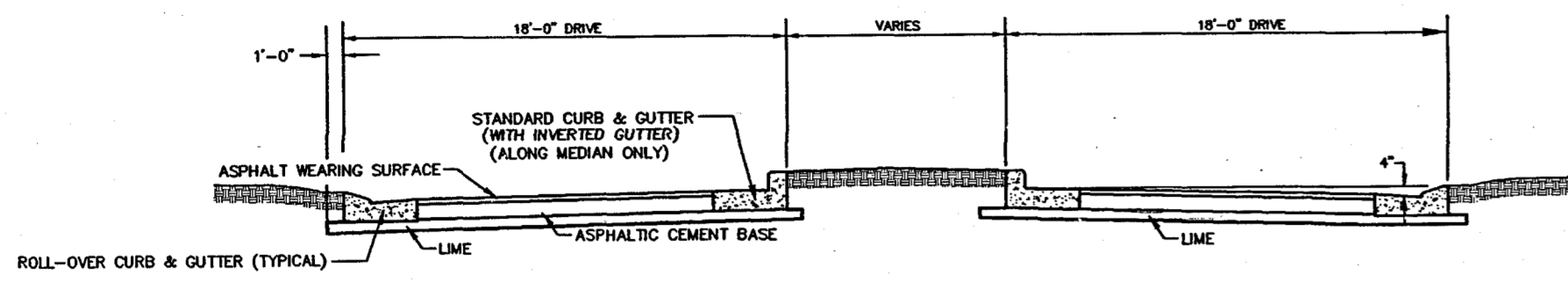
- NOTES:**
- DIMENSIONS ALONG CURVES ARE CHORD DISTANCES.
  - AREA = 4.614 ACRES (MORE OR LESS)

DRAWING NO.: PROJECTS\2006\060228\GALLAGHER'S PASS\VP-GEOD.WMG

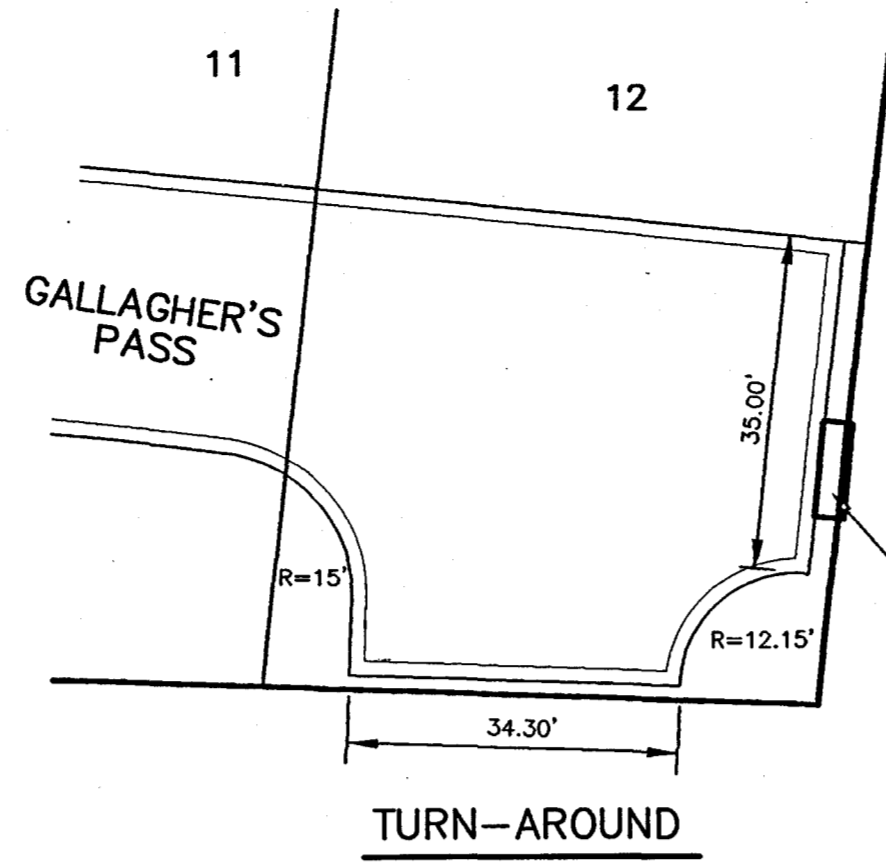
<b>H D LANG AND ASSOCIATES, INC.</b> POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236 601-362-4886	PROJECT	LOCATION	DATE	REVISION	BY	DRAWN BY: CLS
	GALLAGHER'S PASS	GEOMETRIC LAYOUT	06-06-07	REVISED PER DEVELOPER	JBH	DATE: 02-06-07
			12-1-07	RECORD DRAWINGS	DLM	SCALE: 1" = 40'
						BOOK: PAGE:
						PROJECT NO.: 06-028



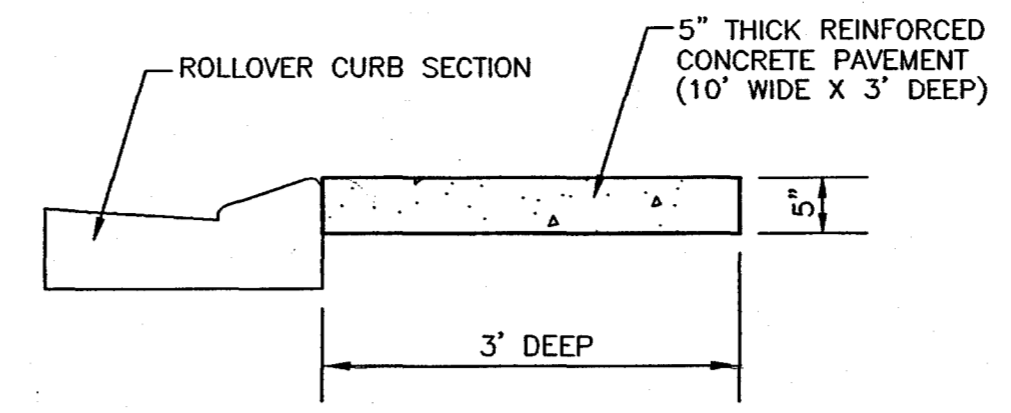
TYPICAL STREET SECTION  
ALTERNATE NO. 1: 1 1/2\"/>



TYPICAL BOULEVARD SECTION  
1 1/2\"/>



TURN-AROUND



EMERGENCY ACCESS PAVEMENT DETAIL

**CENTERLINE INTERSECTIONS**

(1) STA. 1+35.35 GALLAGHER'S PASS- STA. 1+00 SOUTH PASS

(2) STA. 6+73.29 GALLAGHER'S PASS- STA. 6+20.78 SOUTH PASS

**CENTERLINE CURVE DATA**

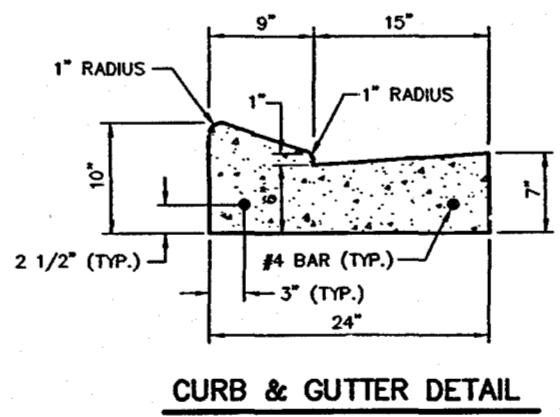
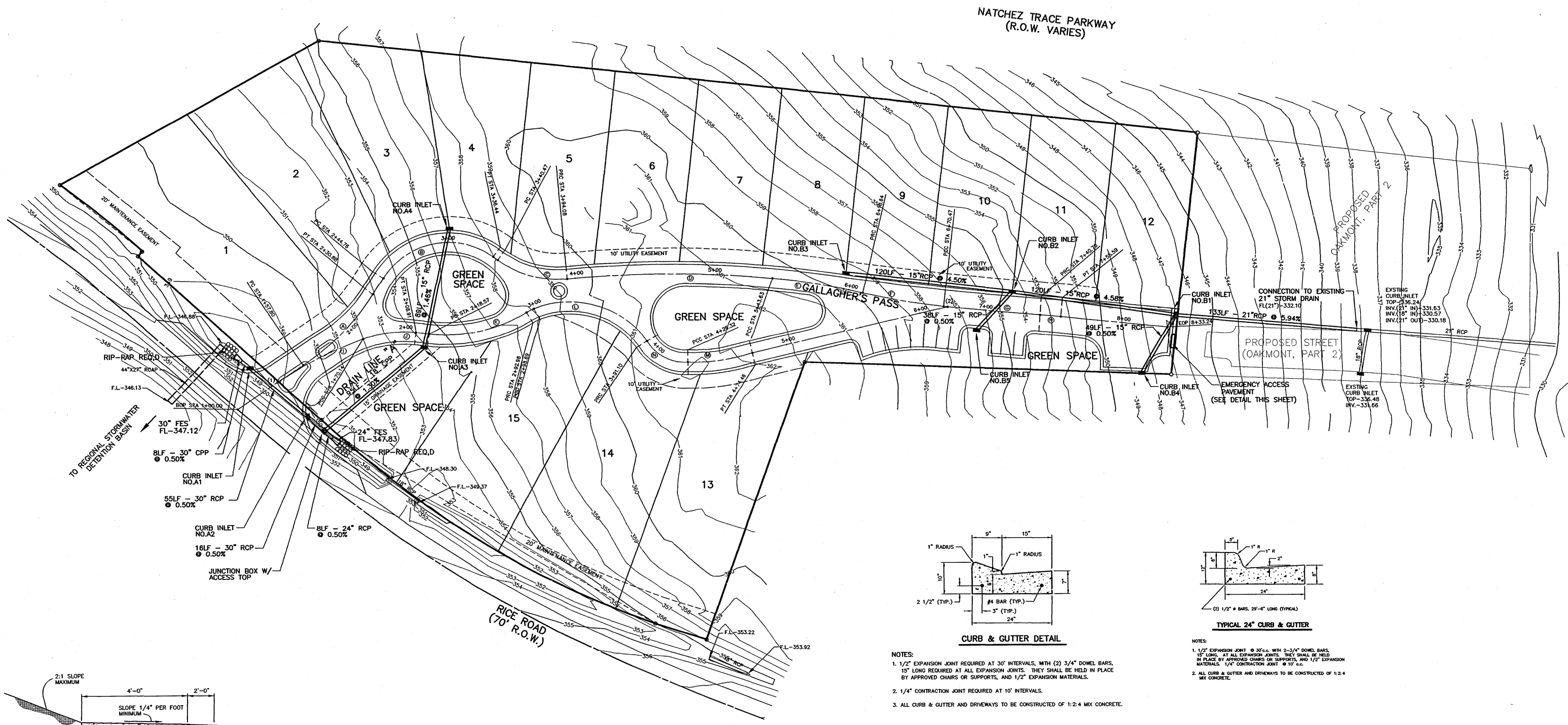
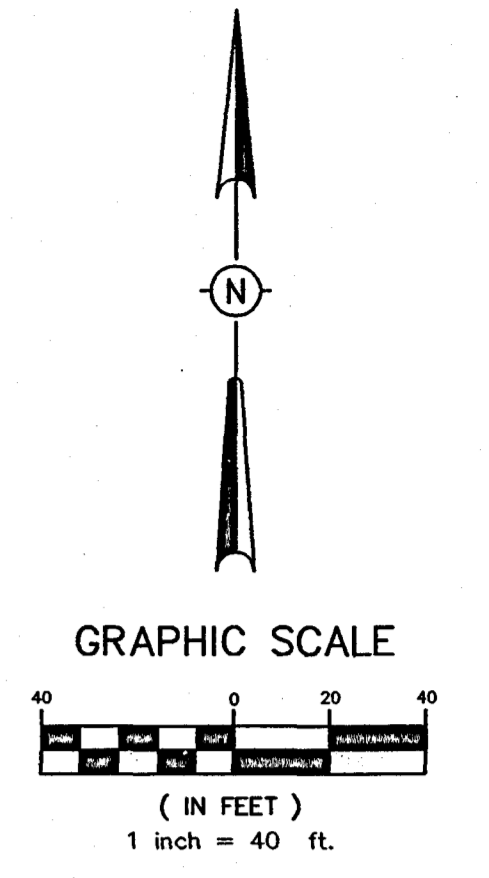
① Δ = 23°51'43"	② Δ = 33°48'25"	③ Δ = 41°30'31"	④ Δ = 107°58'58"	⑤ Δ = 07°40'44"
D = 32.74056'	D = 102.31389'	D = 77.42667'	D = 7.00972'	D = 11.45917'
E = 175.00'	E = 58.00'	E = 74.00'	E = 817.30'	E = 500.00'
T = 37.00'	T = 28.85'	T = 28.04'	T = 74.30'	T = 33.54'
L = 73.09'	L = 91.69'	L = 53.61'	L = 149.55'	L = 67.01'

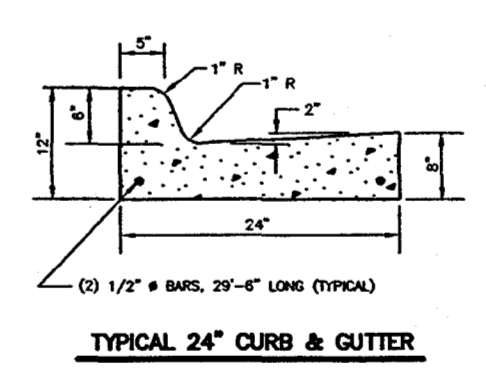
⑥ Δ = 06°51'21"	⑦ Δ = 01°49'03"	⑧ Δ = 01°27'20"	⑨ Δ = 13°49'14"	⑩ Δ = 26°27'05"
D = 11.45917'	D = 2.58778'	D = 9.77750'	D = 19.70258'	D = 68.20917'
E = 300.00'	E = 2214.00'	E = 526.00'	E = 39.68944'	E = 84.00'
T = 29.50'	T = 35.12'	T = 14.80'	T = 14.45'	T = 35.25'
L = 59.83'	L = 70.23'	L = 7.44'	L = 70.14'	L = 38.78'

⑪ Δ = 37°35'04"	⑫ Δ = 77°25'49"	⑬ Δ = 19°05'44"	⑭ Δ = 62°05'51"
D = 50.91556'	D = 83.96778'	D = 39.68944'	D = 145.95278'
E = 113.42'	E = 68.25'	E = 144.45'	E = 35.25'
T = 38.39'	T = 54.70'	T = 24.29'	T = 23.63'
L = 74.40'	L = 92.21'	L = 46.14'	L = 42.55'



CURB & GUTTER DETAIL



TYPICAL 24\"/>

- NOTES:
- 1/2" EXPANSION JOINT REQUIRED AT 30' INTERVALS, WITH (2) 3/4" DOWEL BARS, 15" LONG, AT ALL EXPANSION JOINTS. THEY SHALL BE HELD IN PLACE BY APPROVED CHAIRS OR SUPPORTS, AND 1/2" EXPANSION MATERIALS, 1/4" CONTRACTION JOINT @ 10' C.C.
  - 1/4" CONTRACTION JOINT REQUIRED AT 10' INTERVALS.
  - ALL CURB & GUTTER AND DRIVEWAYS TO BE CONSTRUCTED OF 1:2:4 MIX CONCRETE.

- NOTES:
- 1/2" EXPANSION JOINT @ 30' C.C. WITH 2-3/4" DOWEL BARS, 15" LONG, AT ALL EXPANSION JOINTS. THEY SHALL BE HELD IN PLACE BY APPROVED CHAIRS OR SUPPORTS, AND 1/2" EXPANSION MATERIALS, 1/4" CONTRACTION JOINT @ 10' C.C.
  - ALL CURB & GUTTER AND DRIVEWAYS TO BE CONSTRUCTED OF 1:2:4 MIX CONCRETE.

- NOTES:
- THIS PROPERTY LIES WITHIN THE LIMITS ESTABLISHED FOR ZONE "X" (NO SHADING) ACCORDING TO FIRM MAP NUMBER 28089C0320 D EFFECTIVE APRIL 15, 1994.

**H D LANG AND ASSOCIATES, INC.**  
 POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236  
 601-362-4886

PROJECT  
**GALLAGHER'S PASS**

LOCATION  
**DRAINAGE LAYOUT**

DATE	REVISION	BY	DRAWN BY: CLS
03-01-07	REVISED PER CITY	CLS	DATE: 02-06-07
06-06-07	REVISIONS PER DEVELOPER	JBH	SCALE: 1" = 40'
12-1-07	RECORD DRAWINGS	DLM	BOOK: PAGE:
			PROJECT NO.: 06-028

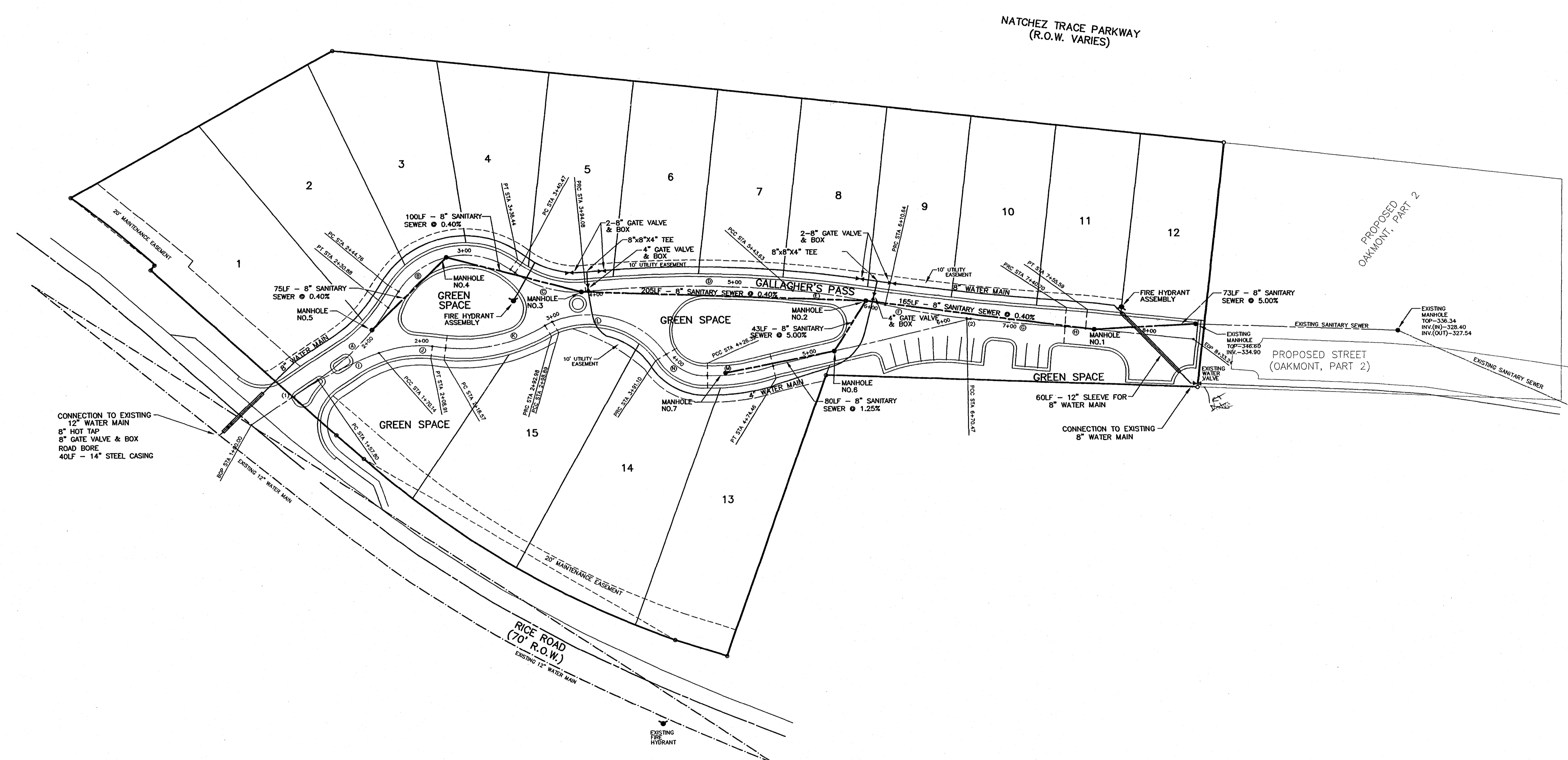
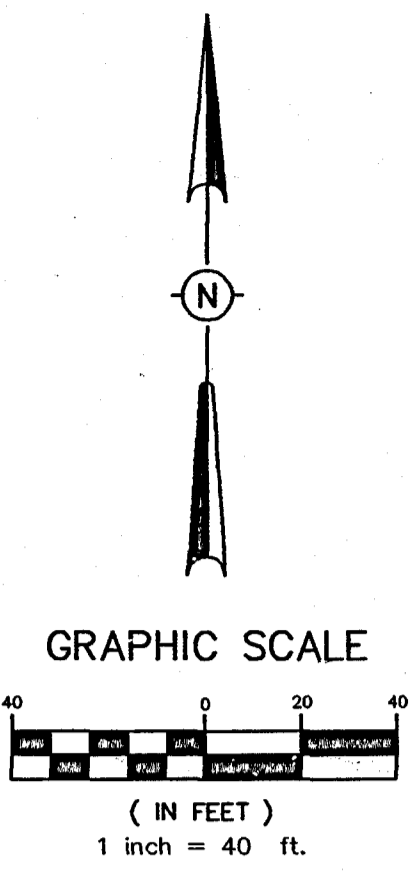


**CENTERLINE INTERSECTIONS**

- (1) STA. 1+35.35 GALLAGHER'S PASS- STA. 1+50 SOUTH PASS
- (2) STA. 6+73.29 GALLAGHER'S PASS- STA. 6+20.78 SOUTH PASS

**CENTERLINE CURVE DATA**

① Δ = 275°43'	② Δ = 93°48'25"	③ Δ = 41°50'31"	④ Δ = 102°8'56"	⑤ Δ = 07°40'44"
D = 32.74056'	D = 102.31389'	D = 77.42587'	D = 7.02927'	D = 11.45897'
R = 175.00'	R = 56.00'	R = 74.00'	R = 817.30'	R = 509.00'
T = 37.00'	T = 29.85'	T = 29.04'	T = 74.90'	T = 53.56'
L = 73.09'	L = 91.69'	L = 53.61'	L = 149.55'	L = 67.01'
⑥ Δ = 06°51'21"	⑦ Δ = 01°49'03"	⑧ Δ = 01°27'20"	⑨ Δ = 13°49'14"	⑩ Δ = 28°27'05"
D = 11.45917'	D = 2.28776'	D = 9.77750'	D = 18.70058'	D = 88.20917'
R = 250.00'	R = 5214.00'	R = 592.76'	R = 535.76'	R = 84.00'
T = 24.86'	T = 53.13'	T = 14.69'	T = 10.74'	T = 16.78'
L = 59.83'	L = 70.23'	L = 7.44'	L = 70.14'	L = 38.75'
⑪ Δ = 37°35'04"	⑫ Δ = 77°25'49"	⑬ Δ = 19°05'44"	⑭ Δ = 62°05'51"	
D = 50.51556'	D = 83.98779'	D = 39.66944'	D = 145.92278'	
R = 133.45'	R = 85.24'	R = 144.45'	R = 39.28'	
T = 38.59'	T = 54.70'	T = 24.29'	T = 23.83'	
L = 74.40'	L = 92.21'	L = 48.14'	L = 42.55'	

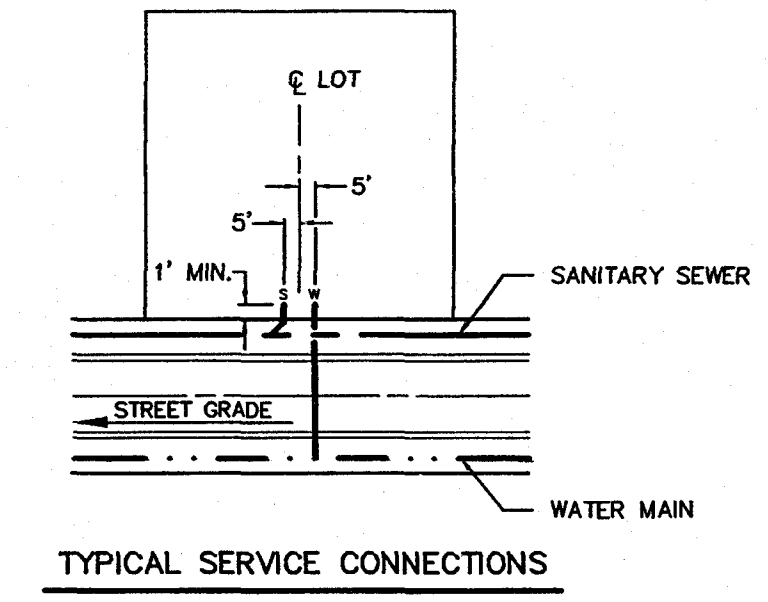
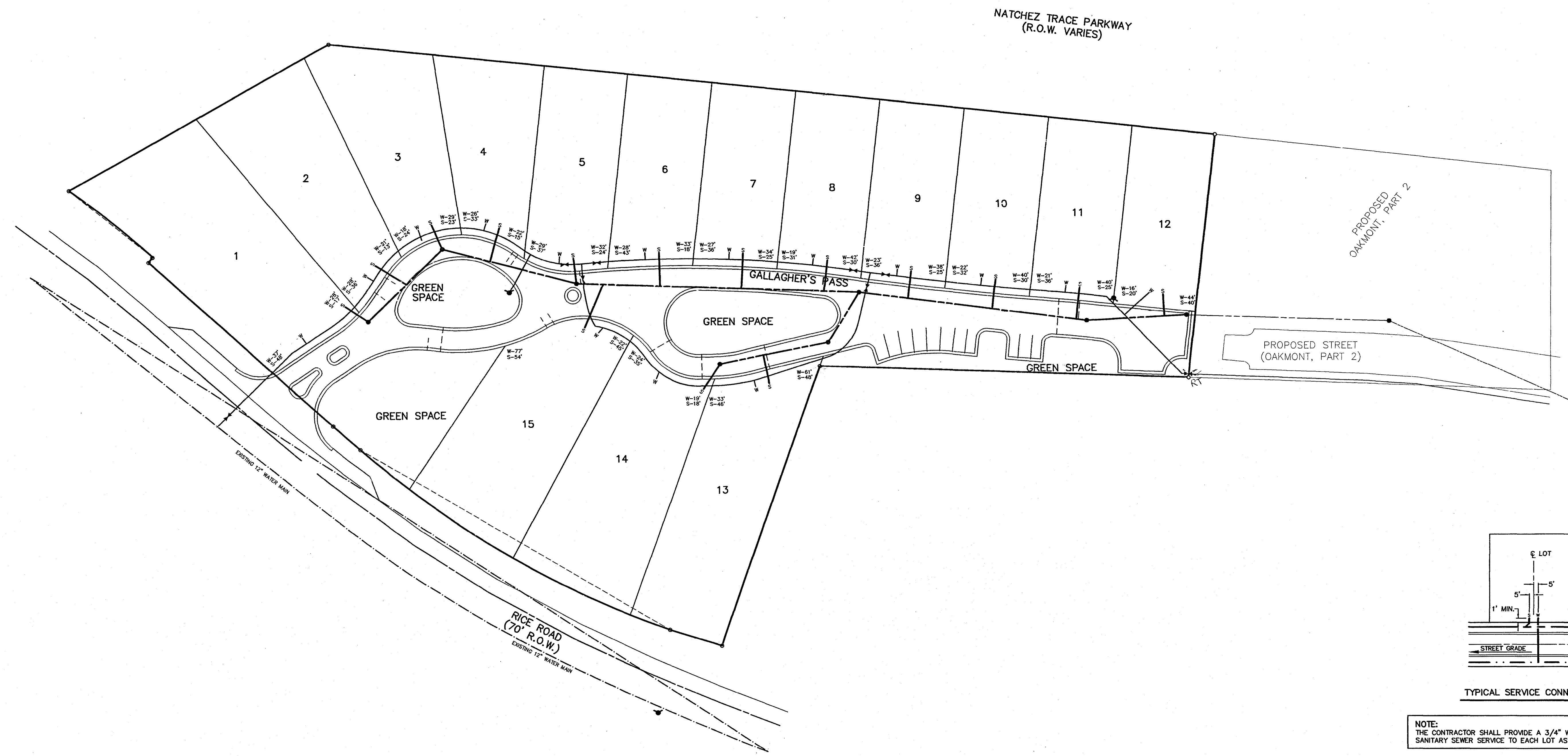
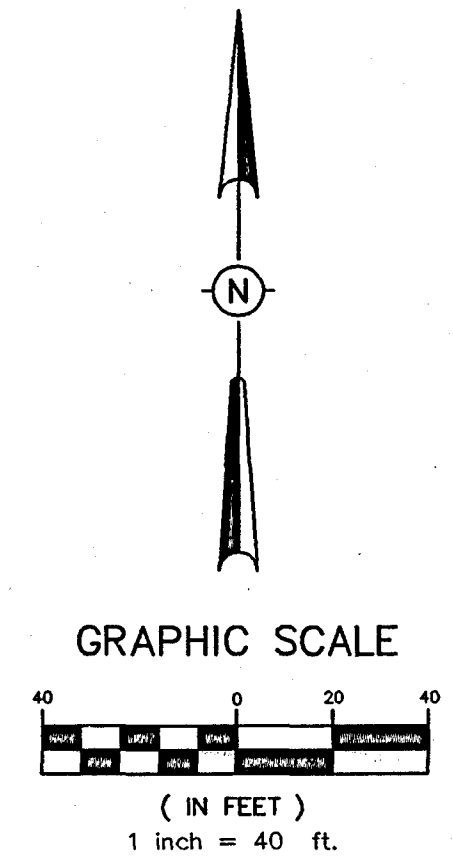


CONNECTION TO EXISTING  
12" WATER MAIN  
8" HOT TAP  
8" GATE VALVE & BOX  
ROAD BORE  
40LF - 14" STEEL CASING

- NOTES:**
1. FIRE HYDRANT ASSEMBLY INCLUDES 6" GATE VALVE & BOX AND 6"x6"x6" TEE.
  2. FIRE HYDRANT ASSEMBLY WILL REQUIRE THE USE OF THE "MEGA" LUG SYSTEM.
  3. ALL JOINTS OF DUCTILE IRON PIPE ON SANITARY SEWER SHALL BE CENTERED ON IT'S CROSSING WITH WATER MAINS AND STORM SEWER PIPES.

DRAWING NO.: PROJECTS\2006\06028\GALLAGHER'S PASS\GP-SW.DWG

<b>H D LANG AND ASSOCIATES, INC.</b> POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236 601-362-4886	PROJECT	LOCATION	DATE	REVISION	BY	DRAWN BY: CLS	
	GALLAGHER'S PASS	SEWER AND WATER LAYOUT	03-01-07	REVISED PER CITY	CLS	DATE: 02-06-07	
			06-06-07	REVISED PER DEVELOPER	JBH	SCALE: 1" = 50'	BOOK: PAGE:
			12-1-07	RECORD DRAWINGS	DLM	PROJECT NO.: 06-028	



NOTE:  
THE CONTRACTOR SHALL PROVIDE A 3/4" WATER SERVICE AND A 6" SANITARY SEWER SERVICE TO EACH LOT AS DIRECTED BY THE ENGINEER.

- NOTES:
1. FIRE HYDRANT ASSEMBLY INCLUDES 6" GATE VALVE & BOX AND 6"x6"x6" TEE.
  2. FIRE HYDRANT ASSEMBLY WILL REQUIRE THE USE OF THE "MEGA" LUG SYSTEM.
  3. ALL JOINTS OF DUCTILE IRON PIPE ON SANITARY SEWER SHALL BE CENTERED ON IT'S CROSSING WITH WATER MAINS AND STORM SEWER PIPES.

DRAWING NO.: PROJECTS\2006\06028\GALLAGHER'S PASS\GP-SWS.DWG

<b>H D LANG AND ASSOCIATES, INC.</b> POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236 601-362-4886	PROJECT <b>GALLAGHER'S PASS</b>	LOCATION <b>AS-BUILT SEWER AND WATER SERVICE LAYOUT</b>	DATE	REVISION	BY	DRAWN BY: CLS
			06-06-07	REVISED PER DEVELOPER JBH		DATE: 02-06-07
			06-06-07	RECORD DRAWINGS	JBH	SCALE: 1" = 50'
						BOOK: PAGE:
						PROJECT NO.: 06-028

**SYMBOLS FOR EROSION AND SEDIMENT CONTROL PRACTICES**

**TEMPORARY PRACTICES**

- → → CHECK DAM
- CONSTRUCTION ENTRANCE / EXIT
- D → DIVERSION
- DUST CONTROL
- SEDIMENT BASIN
- SILT FENCE (METAL "T" POST W/ WIRE BACKING REQ'D.)
- STORM DRAIN INLET PROTECTION (SILT FENCE, STRAW BALE)
- STRAW BALE BARRIER

**PERMANENT PRACTICES**

- BUFFER ZONE
- DETENTION BASIN
- D → DIVERSION
- GRADE STAB. STRUCTURE
- GRASSED WATERWAY
- LAND GRADING
- LEVEL GRADING
- LINED WATERWAY OR OUTLET
- PARKING LOT STORAGE
- PAVED FLUME
- ROCK OUTLET PROTECTION
- STORMWATER RETENTION BASIN

**VEGETATIVE PRACTICES**

- MULCHING
- PERMANENT SEEDING
- SODDING
- TEMPORARY SEEDING
- TOPSOILING
- TREE PRESERVATION AND PROTECTION
- TREES, SHRUBS, VINES AND GROUND COVER
- VEGETATIVE DUNE STABILIZATION

**COMPOSITE PRACTICES**

- VEGETATIVE STREAMBANK STAB.
- STRUCTURAL STREAMBANK STAB.
- RIPRAP

**PLANNED EROSION, SEDIMENT AND STORMWATER CONTROL PRACTICES**

**1. STORM DRAIN INLET PROTECTION.**

TEMPORARY HAY BALE AND SILT FENCE COMBINATIONS WILL BE INSTALLED AT ALL CURB INLET AND GRATE INLET LOCATIONS.

**2. LAND GRADING**

EXCESS EXCAVATION FROM THE STREET RIGHTS OF WAY WILL BE PLACED ON THE LOTS OF LOWEST ELEVATION. ALL FILL MATERIALS WILL BE COMPACTED AND SLOPES WILL NOT EXCEED 3:1. ALL AREAS WILL RECEIVE SEEDING FOR STABILIZATION OF THE FILL MATERIAL UNTIL PERMANENT VEGETATION IS ESTABLISHED AFTER THE CONSTRUCTION OF THE INDIVIDUAL HOUSES.

**3. ROCK OUTLET PROTECTION**

A RIPRAP APRON WILL BE LOCATED AT THE OUTLET OF ALL CULVERTS TO PREVENT SCOUR.

**4. PERMANENT SEEDING**

ALL DISTURBED AREAS WILL BE PERMANENTLY SEEDING AND MULCHED ONCE FINAL GRADE IS ESTABLISHED. THE LAND GRADING AREAS PREVIOUSLY MENTIONED WILL RECEIVE TEMPORARY SEEDING AS STATED.

**MAINTENANCE PLAN**

**SHORT TERM**

- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
- SEDIMENT WILL BE REMOVED FROM THE INLET PROTECTION DEVICES WHEN IT REACHES A MAXIMUM OF 6 INCHES DEEP. THE DEVICE WILL BE REPLACED AS NECESSARY TO MAINTAIN A BARRIER.
- ALL SEEDING AREAS WILL BE FERTILIZED AND RESEEDING AS NECESSARY TO MAINTAIN A DENSE VEGETATIVE COVER.

**LONG TERM**

- ALL VEGETATED AREAS WILL BE MAINTAINED IN ADEQUATE CONDITION TO PROVIDE PROPER GROUND COVER.
- AREAS WHERE VEGETATION IS LOST WILL BE FERTILIZED, SEEDING AND MAINTAINED AS NECESSARY TO RESTORE PROPER GROUND COVER.
- STRUCTURAL MEASURES WILL BE EXAMINED AT LEAST ANNUALLY AND

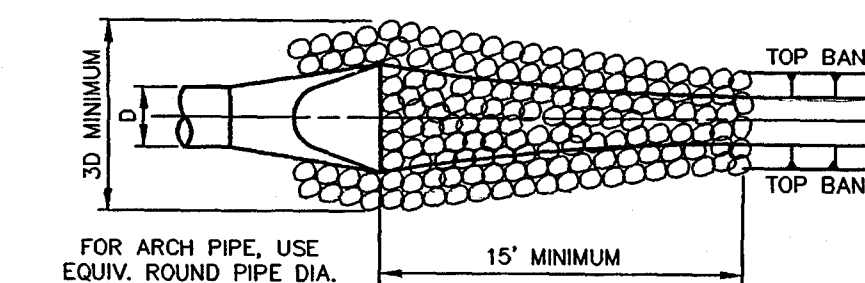
**TEMPORARY SEEDING**

ALL FILL AREAS OUTSIDE OF PAVED AREAS SHALL RECEIVE TEMPORARY SEEDING OF ANNUAL RYEGRASS AT 40 LBS./AC/ WITH 13/13 FERTILIZER AT 600 LBS./AC.

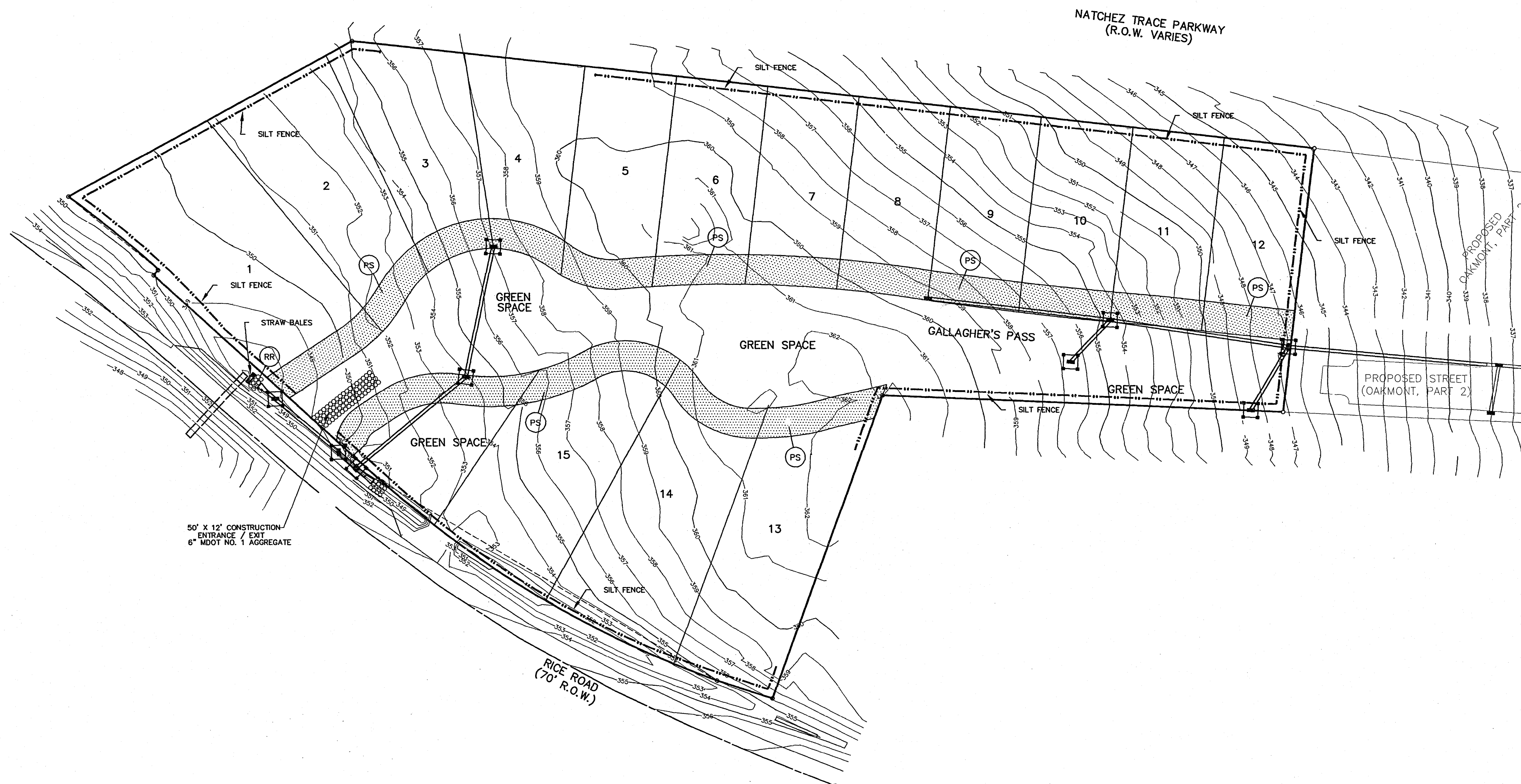
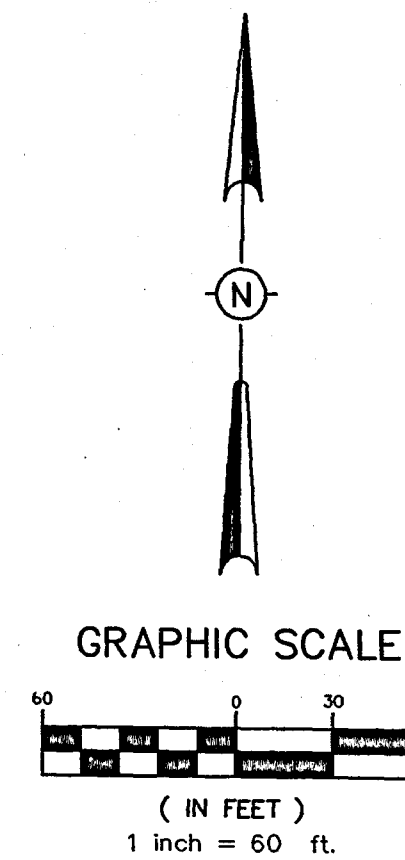
ALL SLOPES SHALL RECEIVE TEMPORARY SEEDING AND FERTILIZER AND STRAW MULCH WITH ASPHALT TACK AT 1.5 TONS MULCH/AC. AND 100 GAL EMULSIFIED ASPHALT, GRADE SS-1 AT 100 GAL./TON MULCH.

**PERMANENT SEEDING**

PERMANENT SEEDING OF BERMUDA GRASS AT 15 LBS./AC. WITH 13/13 FERTILIZER AT 600 LBS./AC.



**ROCK OUTLET PROTECTION**



DRAWING NO.: PROJECTS\2006\06028\GALLAGHER'S PASS\OP-ECDWG

**H D LANG AND ASSOCIATES, INC.**

POST OFFICE BOX 16085

JACKSON, MISSISSIPPI 39236

601-362-4886

PROJECT

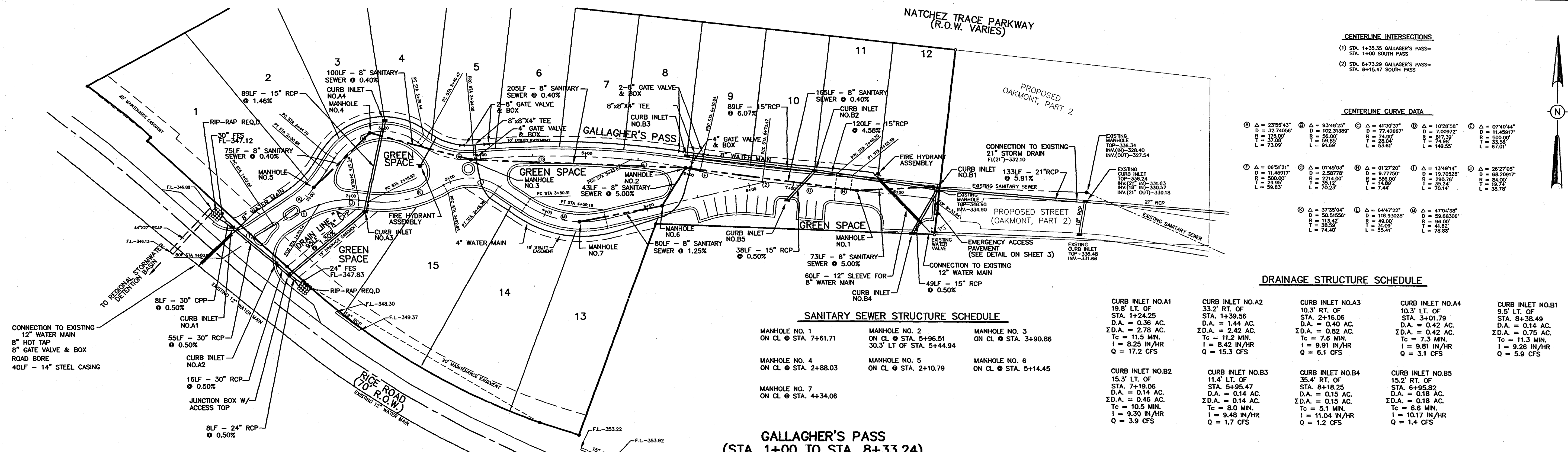
**GALLAGHER'S PASS**

DESCRIPTION

**EROSION, SEDIMENT AND STORMWATER CONTROL LAYOUT**

DATE	REVISION	BY	DRAWN BY: CLS
06-06-07	REVISED PER DEVELOPER	JBH	DATE: 02-06-07
12-1-07	RECORD DRAWINGS	DLM	SCALE: 1" = 40'
			BOOK: PAGE:
			PROJECT NO.: 06-028





**CENTERLINE INTERSECTIONS**

(1) STA. 1+35.35 GALLAGHER'S PASS - STA. 1+00 SOUTH PASS  
 (2) STA. 6+73.29 GALLAGHER'S PASS - STA. 6+15.47 SOUTH PASS

**CENTERLINE CURVE DATA**

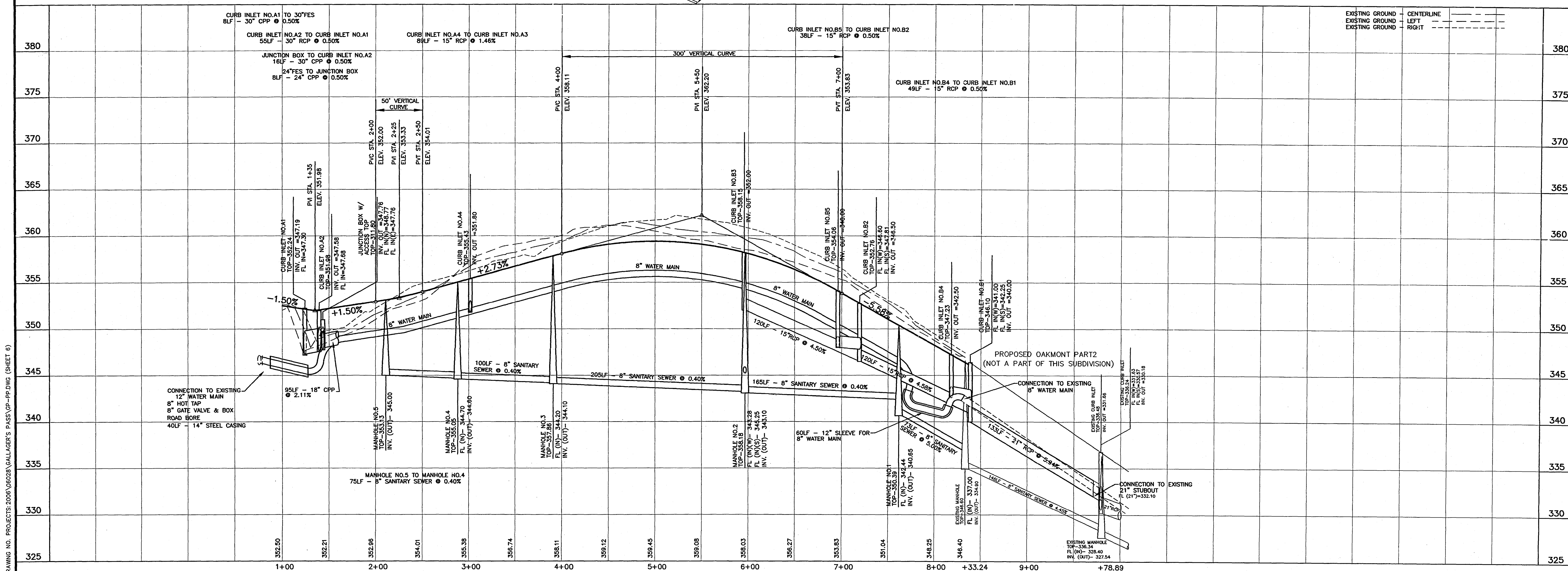
① Δ = 235°43'	② Δ = 93°48'25"	③ Δ = 41°30'37"	④ Δ = 102°28'58"	⑤ Δ = 07°40'44"
D = 32.74056'	D = 162.31369'	D = 77.42667'	D = 7.00972'	D = 11.45917'
R = 175.00'	R = 56.00'	R = 74.00'	R = 82.73'	R = 500.00'
L = 37.00'	L = 91.69'	L = 26.94'	L = 74.98'	L = 33.58'
⑥ Δ = 06°51'21"	⑦ Δ = 01°49'03"	⑧ Δ = 01°27'20"	⑨ Δ = 13°49'14"	⑩ Δ = 26°27'05"
D = 11.45917'	D = 2.58778'	D = 8.77750'	D = 19.70282'	D = 68.20917'
R = 500.00'	R = 234.00'	R = 548.00'	R = 84.00'	R = 84.00'
T = 29.95'	T = 55.12'	T = 14.88'	T = 23.27'	T = 19.74'
L = 58.53'	L = 70.23'	L = 7.44'	L = 70.14'	L = 38.78'
⑪ Δ = 37°35'04"	⑫ Δ = 64°47'25"	⑬ Δ = 47°04'35"		
D = 50.51566'	D = 50.51566'	D = 50.51566'		
R = 113.42'	R = 49.00'	R = 98.00'		
T = 38.29'	T = 55.41'	T = 41.82'		
L = 74.40'	L = 55.41'	L = 78.85'		

**SANITARY SEWER STRUCTURE SCHEDULE**

MANHOLE NO. 1 ON CL. STA. 7+61.71	MANHOLE NO. 2 ON CL. STA. 5+96.51 30.3' LT. OF STA. 5+44.94	MANHOLE NO. 3 ON CL. STA. 3+90.86
MANHOLE NO. 4 ON CL. STA. 2+88.03	MANHOLE NO. 5 ON CL. STA. 2+10.79	MANHOLE NO. 6 ON CL. STA. 5+14.45
MANHOLE NO. 7 ON CL. STA. 4+34.06		

**DRAINAGE STRUCTURE SCHEDULE**

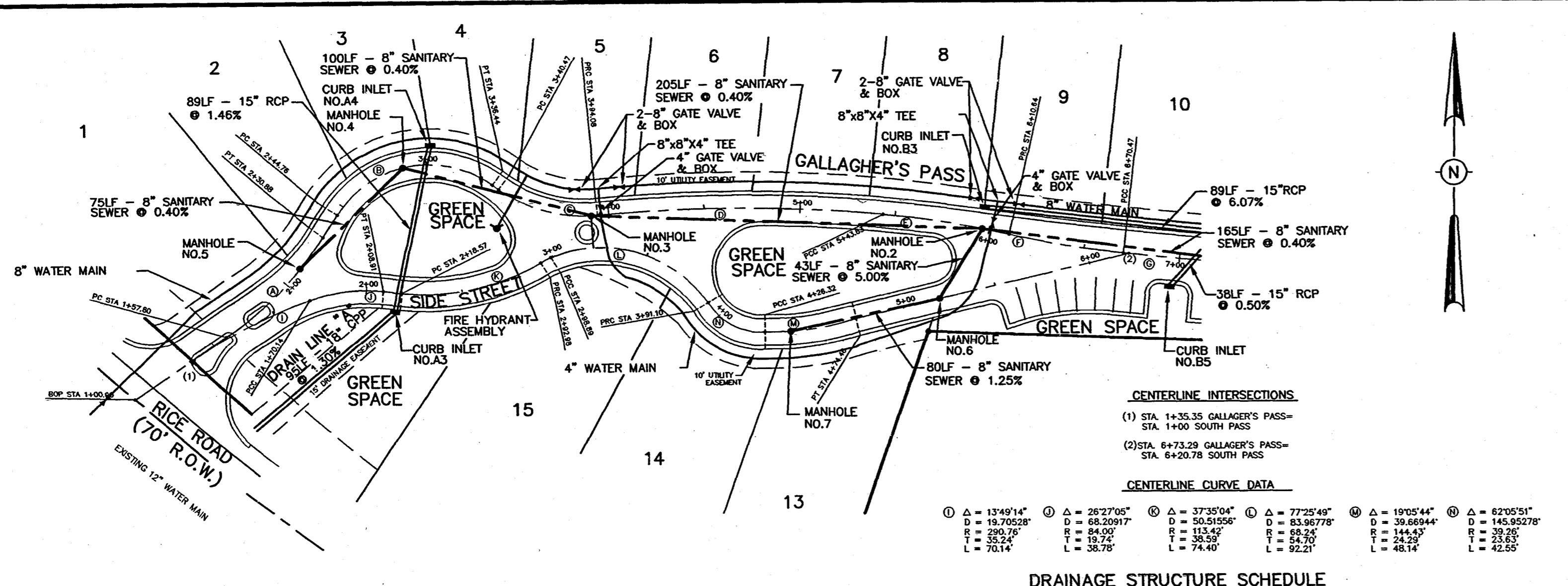
CURB INLET NO.A1 19.8' LT. OF STA. 1+24.25 D.A. = 0.36 AC. I.D.A. = 2.78 AC. Tc = 11.5 MIN. I = 9.25 IN/HR Q = 17.2 CFS	CURB INLET NO.A2 33.2' RT. OF STA. 1+39.56 D.A. = 1.44 AC. I.D.A. = 2.42 AC. Tc = 11.2 MIN. I = 8.42 IN/HR Q = 15.3 CFS	CURB INLET NO.A3 10.3' RT. OF STA. 2+16.06 D.A. = 0.42 AC. I.D.A. = 0.42 AC. Tc = 7.6 MIN. I = 9.91 IN/HR Q = 6.1 CFS	CURB INLET NO.A4 10.3' LT. OF STA. 3+01.79 D.A. = 0.42 AC. I.D.A. = 0.42 AC. Tc = 7.3 MIN. I = 9.81 IN/HR Q = 6.1 CFS	CURB INLET NO.B1 9.5' LT. OF STA. 8+38.49 D.A. = 0.14 AC. I.D.A. = 0.75 AC. Tc = 11.3 MIN. I = 9.26 IN/HR Q = 5.9 CFS
CURB INLET NO.B2 15.3' LT. OF STA. 7+19.06 D.A. = 0.14 AC. I.D.A. = 0.46 AC. Tc = 10.5 MIN. I = 9.30 IN/HR Q = 3.9 CFS	CURB INLET NO.B3 11.4' LT. OF STA. 5+95.47 D.A. = 0.14 AC. I.D.A. = 0.15 AC. Tc = 5.1 MIN. I = 11.04 IN/HR Q = 1.7 CFS	CURB INLET NO.B4 35.4' RT. OF STA. 6+95.82 D.A. = 0.18 AC. I.D.A. = 0.18 AC. Tc = 6.6 MIN. I = 10.17 IN/HR Q = 1.4 CFS	CURB INLET NO.B5 15.2' RT. OF STA. 6+95.82 D.A. = 0.18 AC. I.D.A. = 0.18 AC. Tc = 6.6 MIN. I = 10.17 IN/HR Q = 1.4 CFS	



**H D LANG AND ASSOCIATES, INC.**  
 POST OFFICE BOX 16085 JACKSON, MISSISSIPPI 39236  
 601-362-4886

PROJECT: **GALLAGHER'S PASS**  
 DESCRIPTION: **PLAN AND PROFILE GALLAGHER'S PASS (STA. 1+00 TO STA. 8+33.24)**

DATE: 03-01-07	REVISION: REVISED PER CITY	BY: CLS	DRAWN BY: CLS	SHEET: 6
12-1-07	RECORD DRAWINGS	DLM	DATE: 02-06-07	
			HORIZ.: 1"=50' / VERT.: 1"=5'	
			BOOK: PAGE:	
			PROJECT NO.: 06-028	

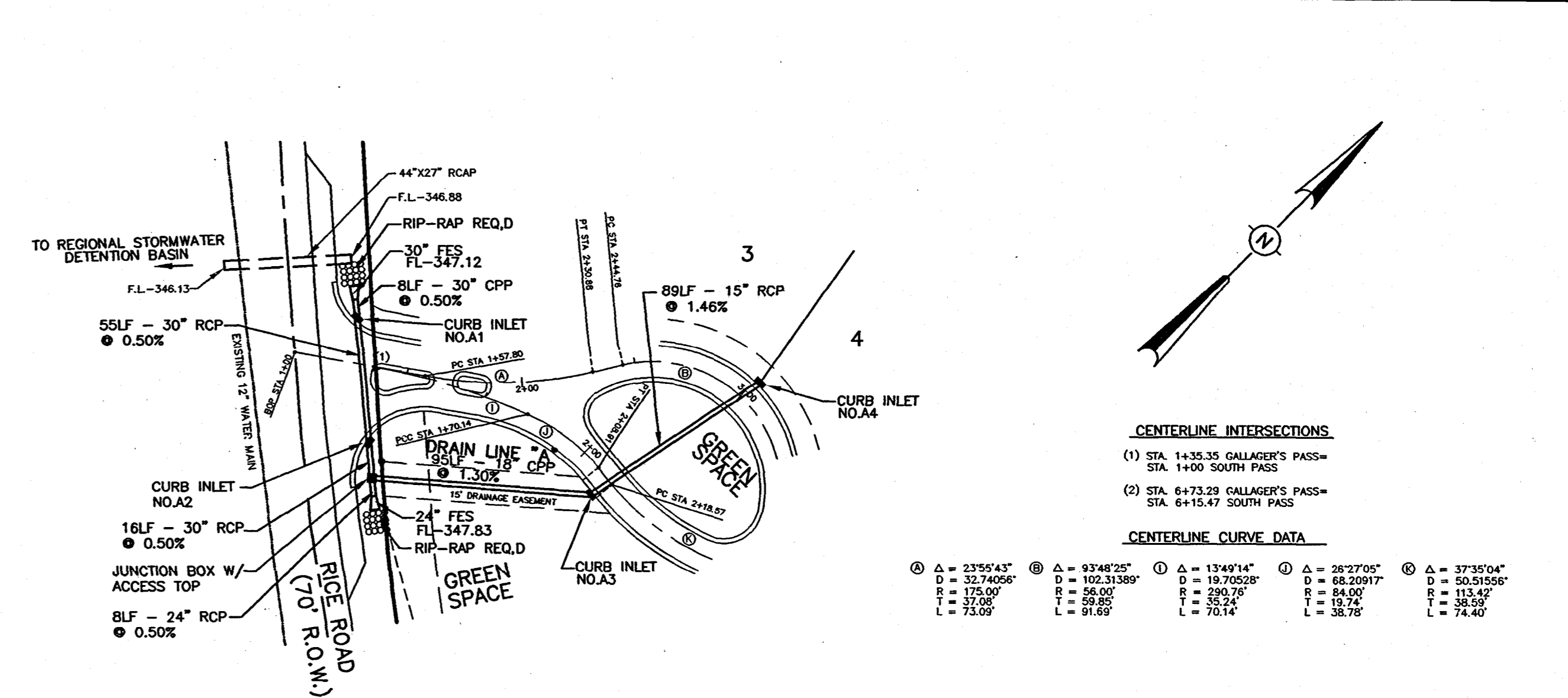


**SANITARY SEWER STRUCTURE SCHEDULE**

MANHOLE NO. 1 ON CL. STA. 7+61.71	MANHOLE NO. 2 ON CL. STA. 5+96.51 30.3' RT. OF STA. 5+50.24	MANHOLE NO. 3 ON CL. STA. 3+90.06
MANHOLE NO. 4 ON CL. STA. 2+88.03	MANHOLE NO. 5 ON CL. STA. 2+10.79	MANHOLE NO. 6 ON CL. STA. 5+19.76
MANHOLE NO. 7 ON CL. STA. 4+39.64		

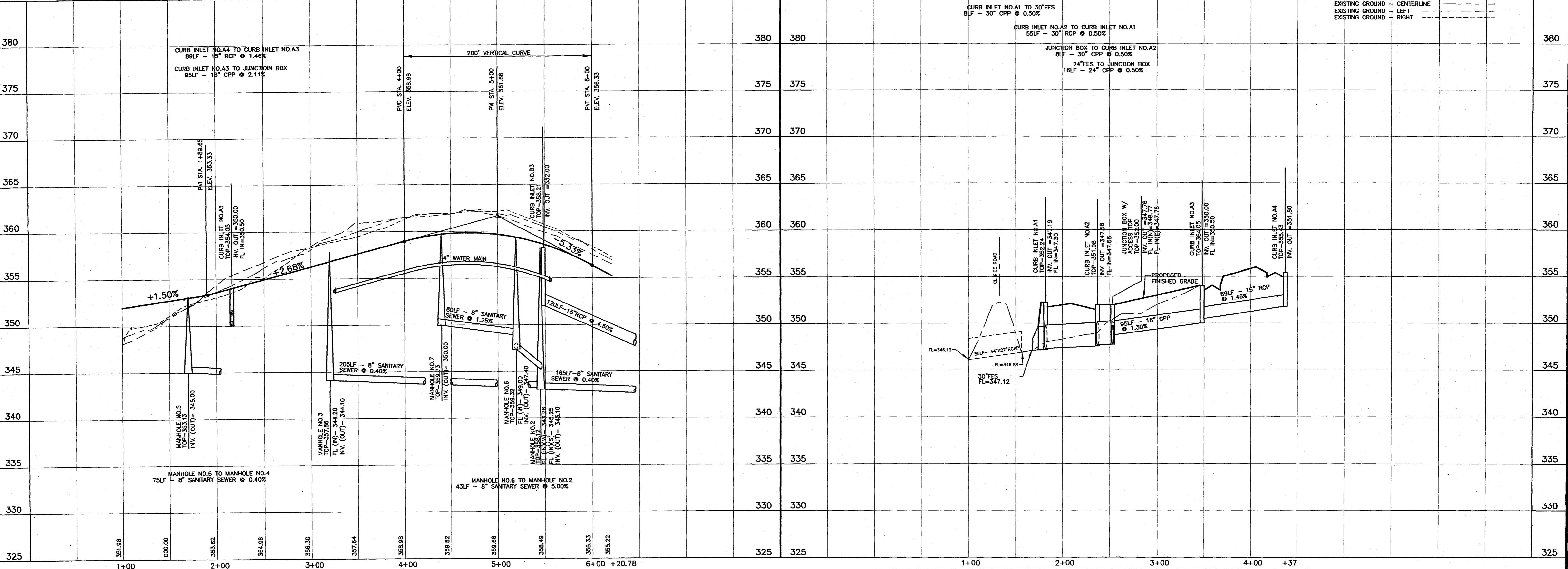
**DRAINAGE STRUCTURE SCHEDULE**

CURB INLET NO.A1 19.8' LT. OF STA. 14+24.25 D.A. = 0.35 AC. I.D.A. = 2.78 AC. Tc = 11.5 MIN. I = 9.25 IN/HR Q = 17.2 CFS	CURB INLET NO.A2 33.2' RT. OF STA. 14+39.56 D.A. = 1.44 AC. I.D.A. = 2.42 AC. Tc = 11.2 MIN. I = 8.42 IN/HR Q = 6.1 CFS	CURB INLET NO.A3 10.3' RT. OF STA. 2+16.06 D.A. = 0.40 AC. I.D.A. = 0.82 AC. Tc = 7.6 MIN. I = 9.91 IN/HR Q = 3.1 CFS	CURB INLET NO.A4 9.5' LT. OF STA. 3+01.79 D.A. = 0.42 AC. I.D.A. = 0.82 AC. Tc = 7.3 MIN. I = 8.81 IN/HR Q = 3.1 CFS	CURB INLET NO.B1 10.3' LT. OF STA. 6+38.49 D.A. = 0.14 AC. I.D.A. = 0.75 AC. Tc = 11.3 MIN. I = 9.28 IN/HR Q = 5.9 CFS
CURB INLET NO.B2 15.3' LT. OF STA. 7+19.06 D.A. = 0.14 AC. I.D.A. = 0.46 AC. Tc = 10.5 MIN. I = 9.30 IN/HR Q = 3.9 CFS	CURB INLET NO.B3 11.4' LT. OF STA. 5+95.47 D.A. = 0.14 AC. I.D.A. = 0.14 AC. Tc = 8.0 MIN. I = 9.48 IN/HR Q = 1.7 CFS	CURB INLET NO.B4 35.4' RT. OF STA. 8+18.25 D.A. = 0.15 AC. I.D.A. = 0.15 AC. Tc = 5.1 MIN. I = 11.04 IN/HR Q = 1.2 CFS	CURB INLET NO.B5 15.2' RT. OF STA. 6+95.82 D.A. = 0.18 AC. I.D.A. = 0.18 AC. Tc = 6.6 MIN. I = 10.17 IN/HR Q = 1.4 CFS	

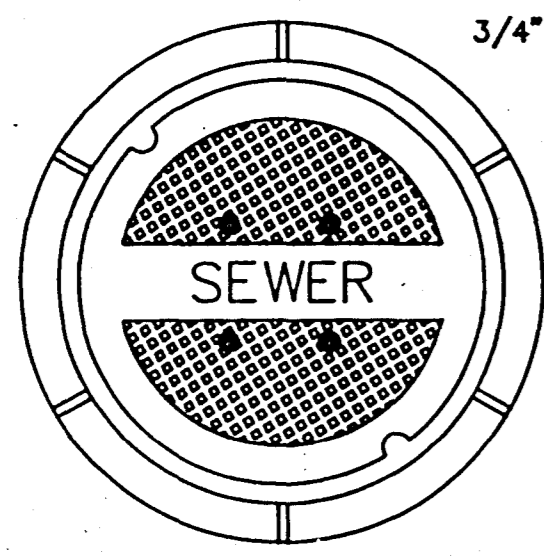


**DRAINAGE STRUCTURE SCHEDULE**

CURB INLET NO.A1 19.8' LT. OF STA. 14+24.25 D.A. = 0.35 AC. I.D.A. = 2.78 AC. Tc = 11.5 MIN. I = 9.25 IN/HR Q = 17.2 CFS	CURB INLET NO.A2 33.2' RT. OF STA. 14+39.56 D.A. = 1.44 AC. I.D.A. = 2.42 AC. Tc = 11.2 MIN. I = 8.42 IN/HR Q = 6.1 CFS	CURB INLET NO.A3 10.3' RT. OF STA. 2+16.06 D.A. = 0.40 AC. I.D.A. = 0.82 AC. Tc = 7.6 MIN. I = 9.91 IN/HR Q = 3.1 CFS	CURB INLET NO.A4 9.5' LT. OF STA. 3+01.79 D.A. = 0.42 AC. I.D.A. = 0.82 AC. Tc = 7.3 MIN. I = 8.81 IN/HR Q = 3.1 CFS
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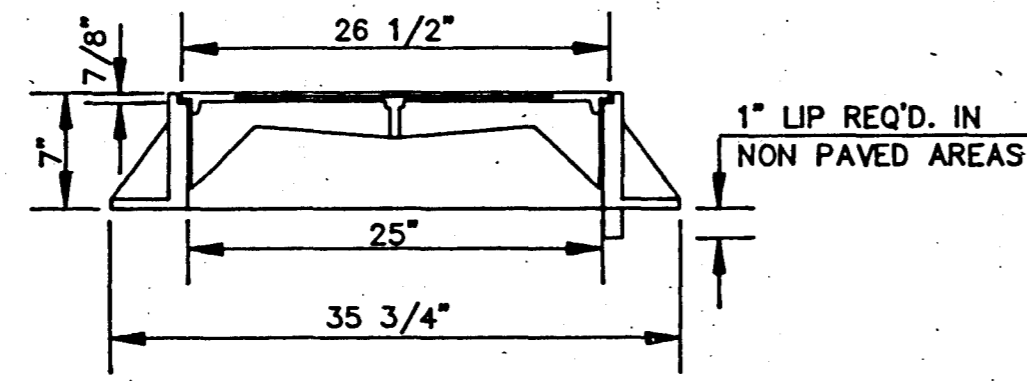






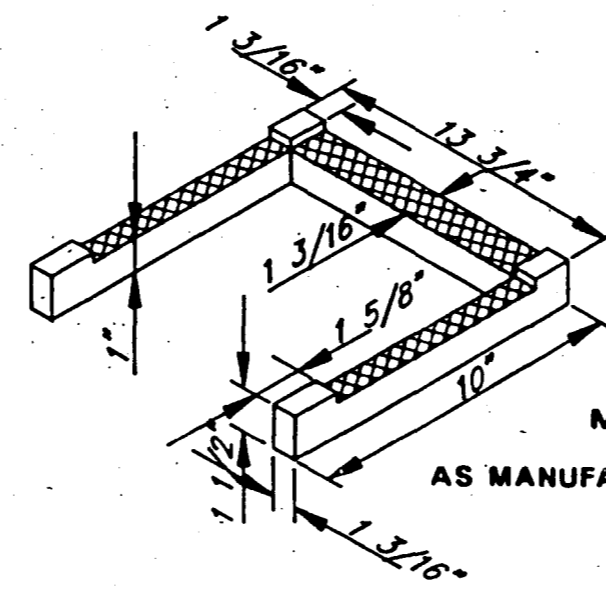
3/4" HOLES

TOP PLAN OF COVER



SECTION

FRAME & COVER WEIGHT 420 LBS.

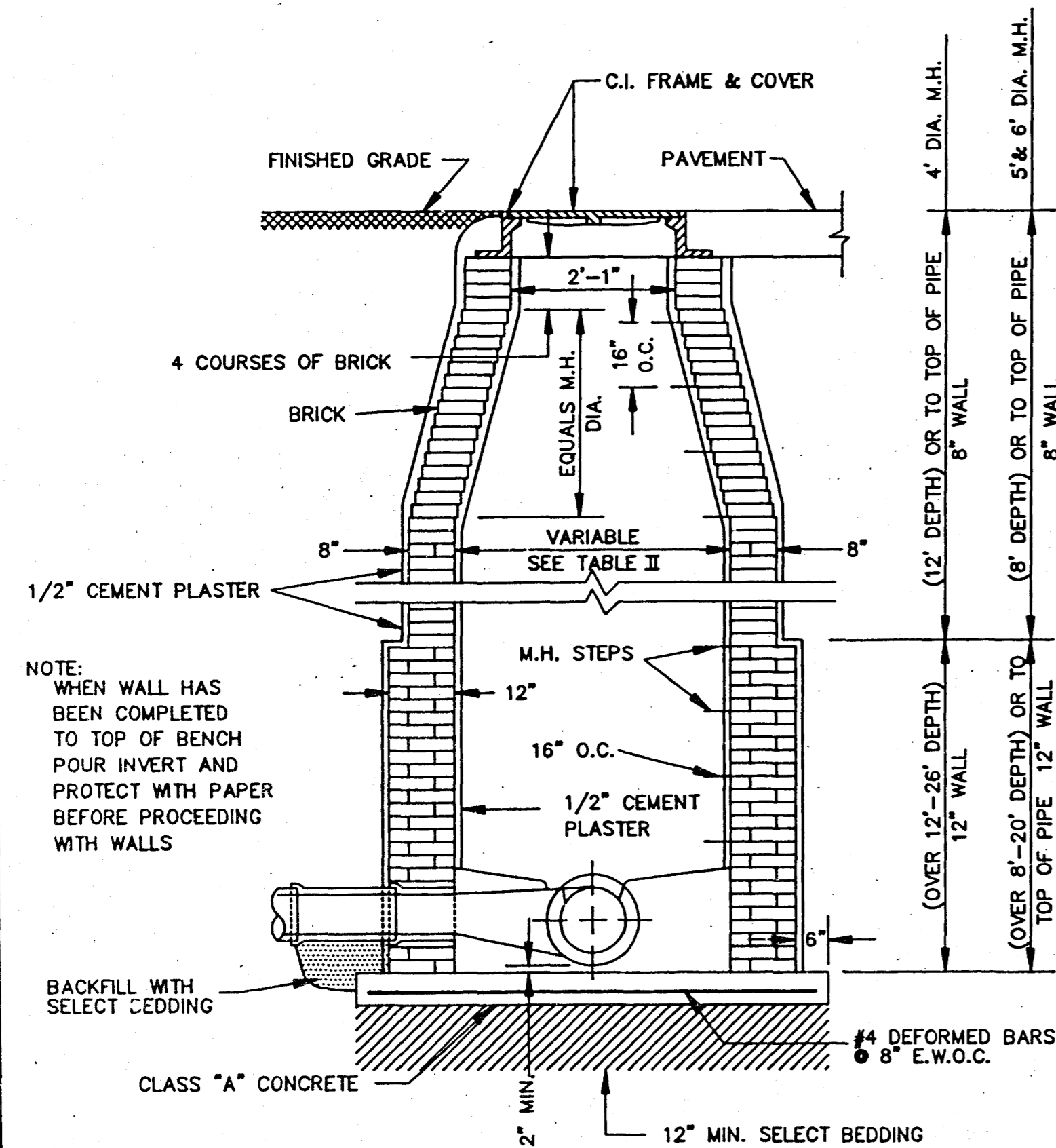


DETAIL 'B'

MODEL NO. PS2 - PF  
AS MANUFACTURED BY M.A. INDUSTRIES INC.

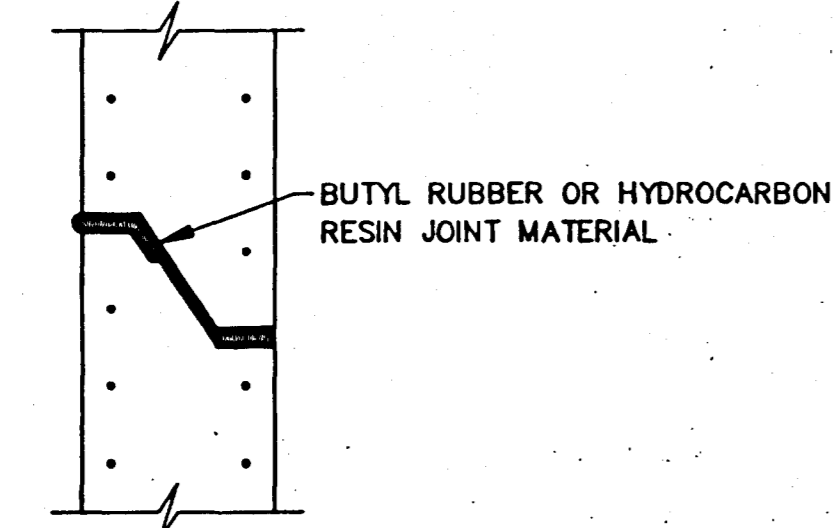
**STANDARD MANHOLE FRAME AND COVER**

N.T.S.



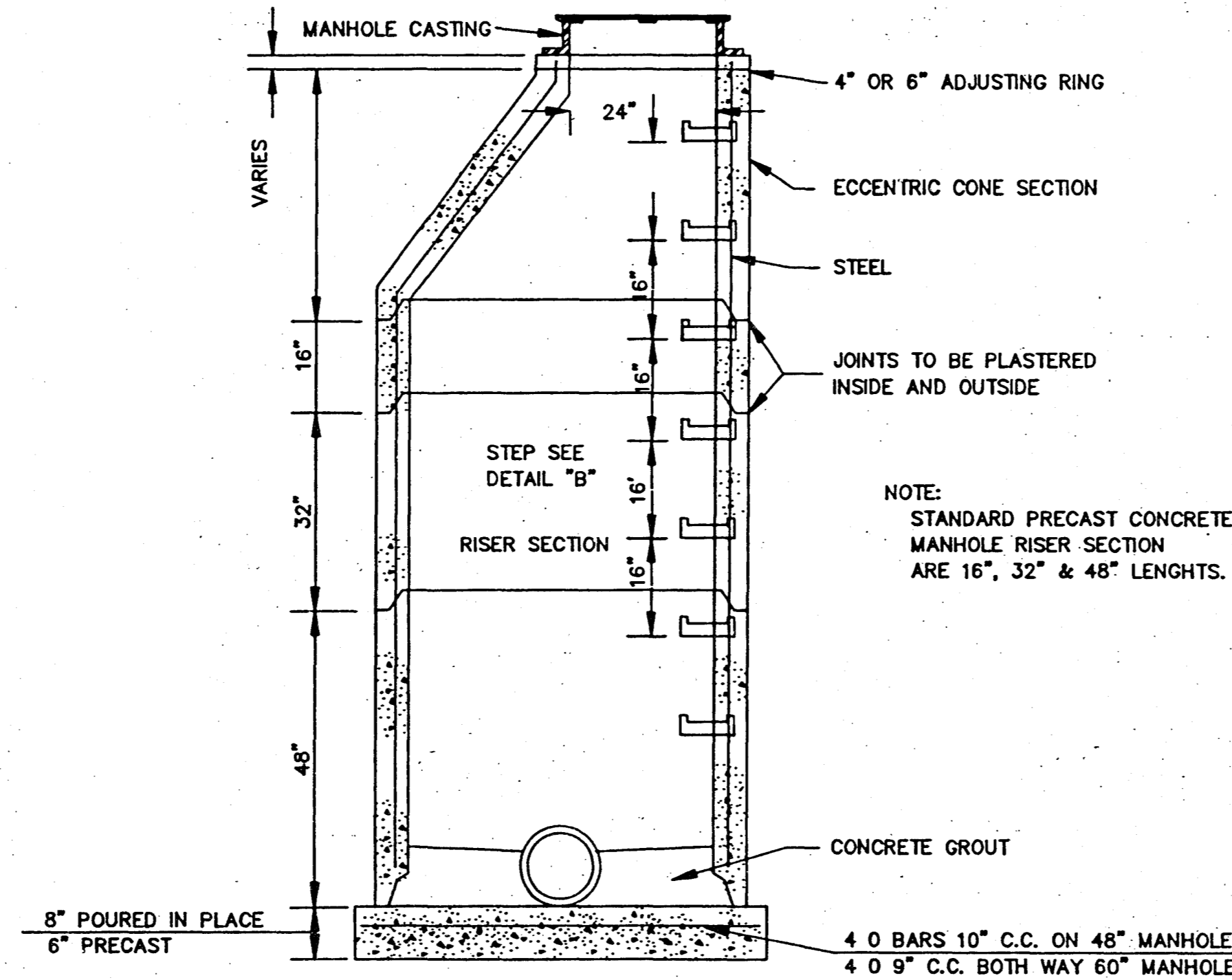
**STANDARD BRICK MANHOLE**

N.T.S.



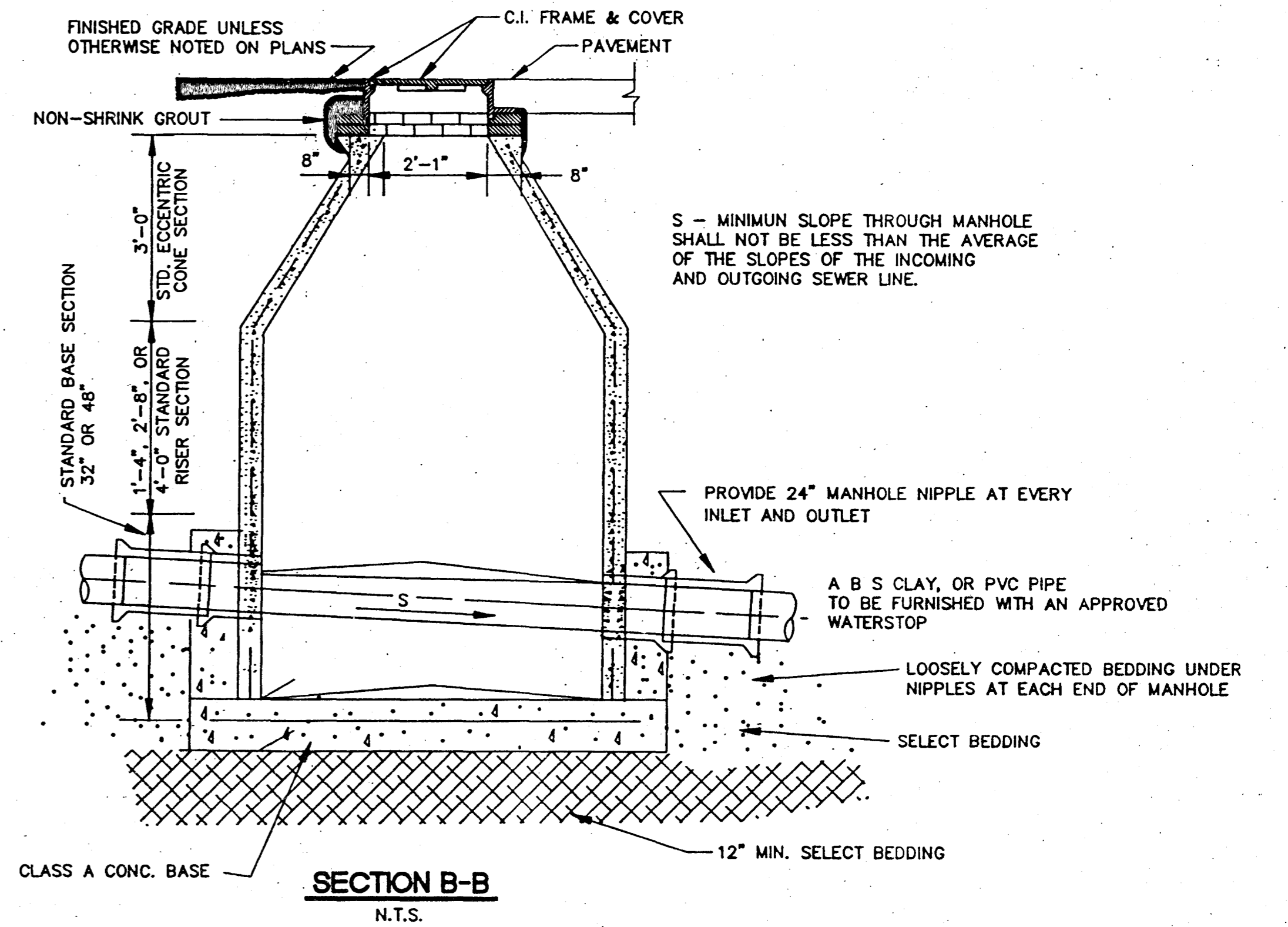
TYPICAL PRECAST CONCRETE MANHOLE JOINT DETAIL

N.T.S.



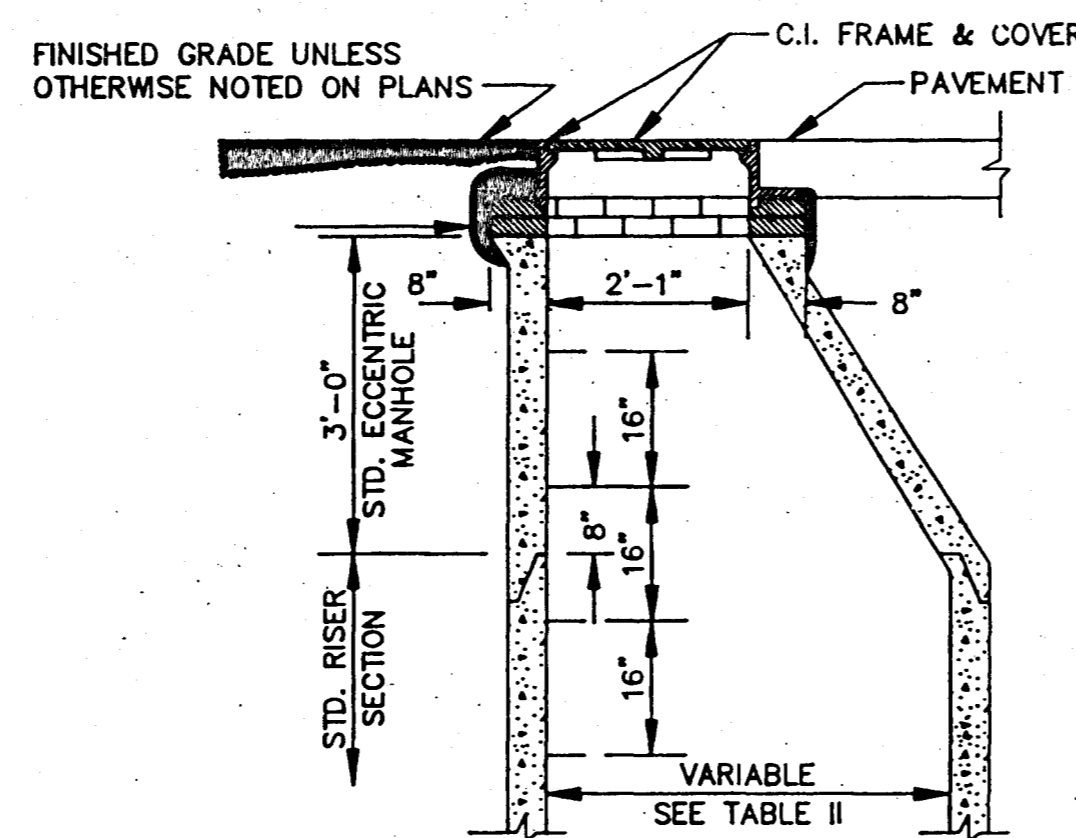
**SECTION OF PRECAST CONCRETE MANHOLE**

N.T.S.



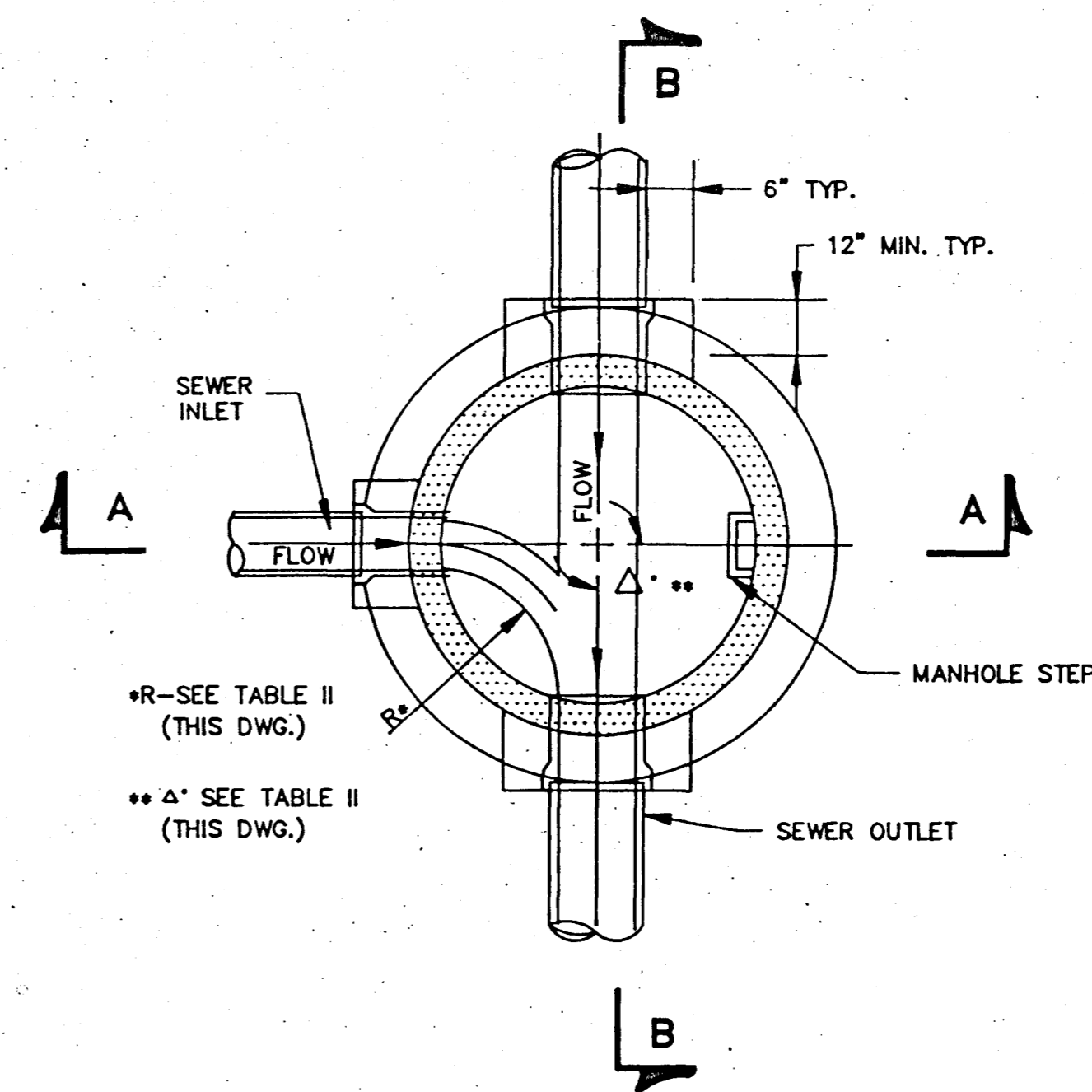
SECTION B-B

N.T.S.



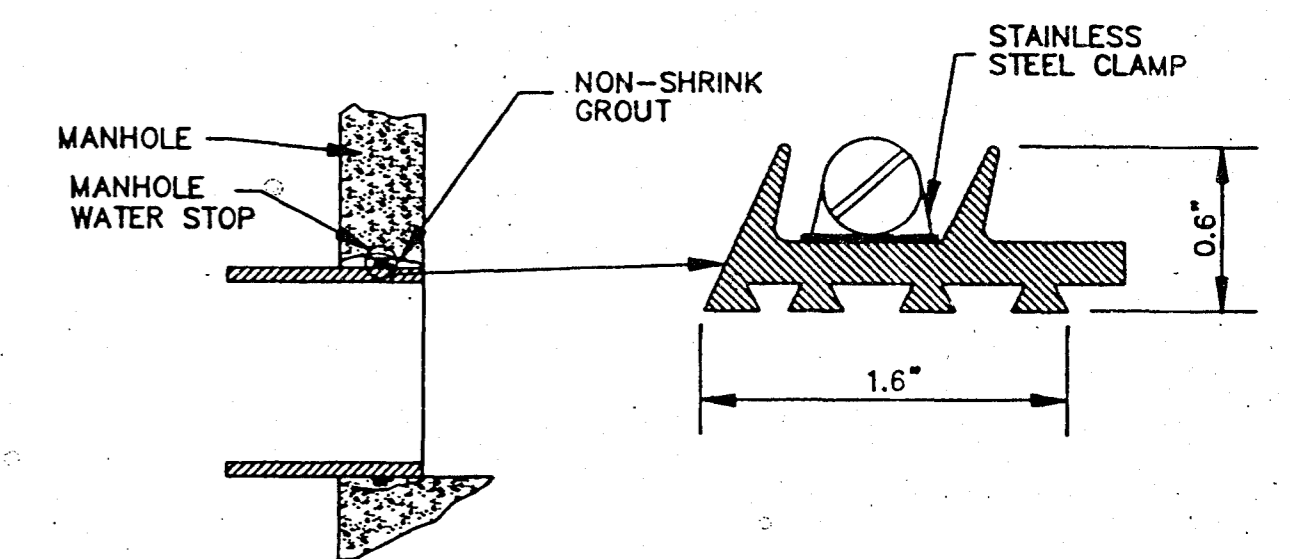
**STANDARD ECCENTRIC CONE FOR ALL DIAMETER MANHOLES**

N.T.S.



**SECTIONAL PLAN STANDARD MANHOLE**

N.T.S.



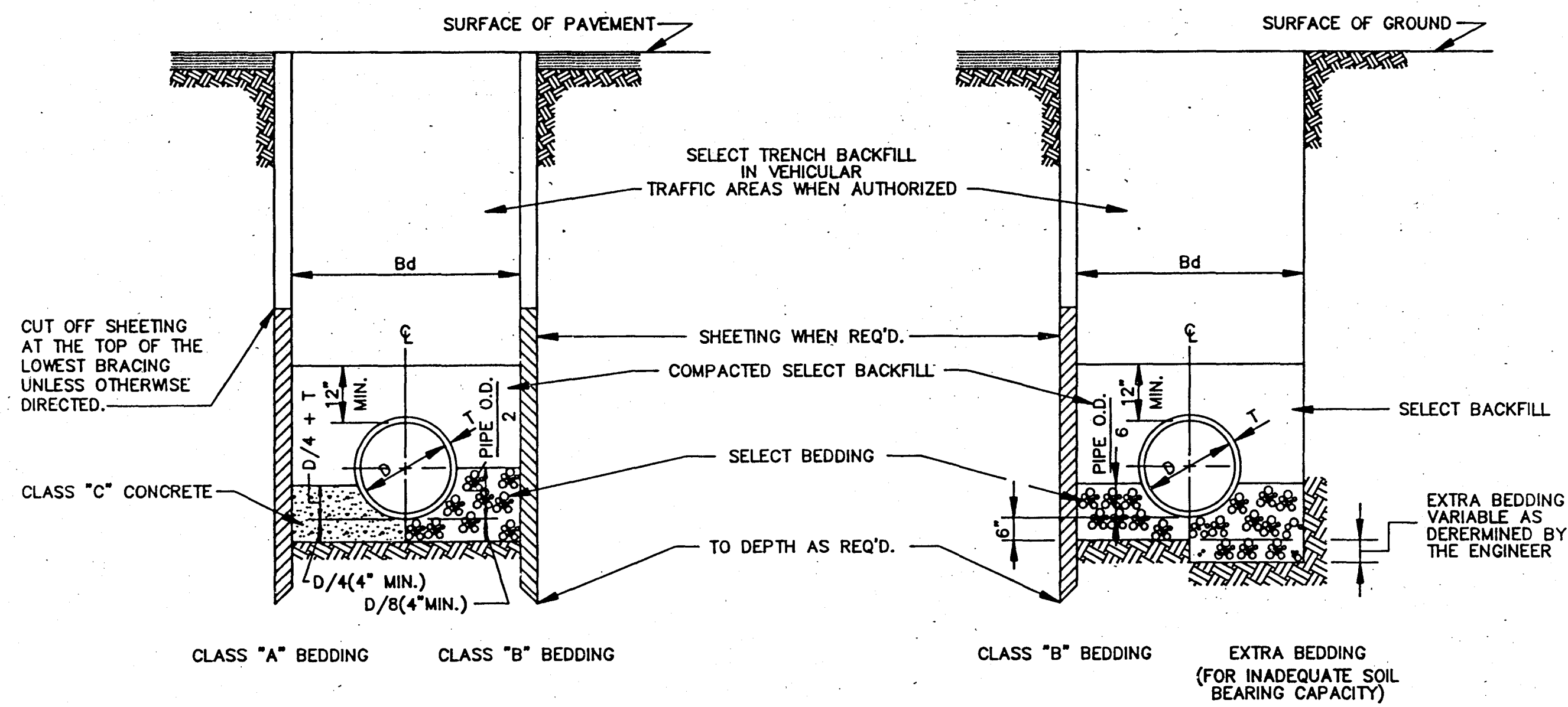
**TYPICAL MANHOLE WATER STOP FOR ABS, CLAY OR PVC PIPE**

EXISTING AND "STRADDLE" MANHOLES  
N.T.S.

CITY OF RIDGELAND, MS.

**STANDARD DETAILS**

DSGN:		THE CITY OF	DRAWING NO.
DRWN:		RIDGELAND	OF
CHKD:			
SCALE:			



TYPICAL TRENCH DETAILS (FORCE MAIN)

CLASS "A" BEDDING

MATERIAL SHALL BE CLASS "C" CONCRETE CRADLES. THE PIPE SHALL BE LAID ON CONCRETE SADDLES CONSTRUCTED TO PROVIDE VERTICAL AND LATERAL SUPPORT FOR THE PIPE WHILE THE CRADLE IS BEING PLACED. PIPE SUPPORTS OF WOOD BLOCKS, LOOSE BRICK, ETC., WILL NOT BE PERMITTED. THE CRADLE SHALL BE POURED AFTER THE JOINTS HAVE BEEN MADE, CARE BEING TAKEN TO PREVENT MOVEMENT OF THE PIPE. WHENEVER THE CONTRACTOR PLACES CONCRETE OUTSIDE THE DIMENSIONS SHOWN ON THE DRAWINGS, THE COST OF SUCH CONCRETE WILL BE AT THE CONTRACTOR'S EXPENSE.

CLASS "B" BEDDING

MATERIAL SHALL BE SELECT BEDDING AS SPECIFIED. MATERIAL SHALL BE CAREFULLY PLACED AND THOROUGHLY COMPACTED BY TAMPING.

CLASS "C" BEDDING (STANDARD BEDDING)

MATERIAL SHALL BE THE SAME AS FOR CLASS "B" BEDDING AND SHALL BE PLACED AS SHOWN BY STANDARD DETAILS FOR THE TYPE OF PIPE USED.

BEDDING FOR VITRIFIED CLAY, CONCRETE & ABS PIPE  
TYPICAL TRENCH DETAILS  
N.T.S.

TABLE "A"  
PIPE SIZE

CARRIER PIPE (INCHES)	CASING PIPE	
	DIA. (INCHES)	STEEL PIPE WALL THICK
8	16	1/4"
10	20	5/16"
12	24	3/8"
14 & 16	30	1/2"
18	36	1/2"
24	36	1/2"
30	54	1/2"
36	54	1/2"
42	66	SEE TABLE "B"
48	72	"
54	78	"
60	84	"
66	96	"
72	108	"
84	120	"
96	144	"

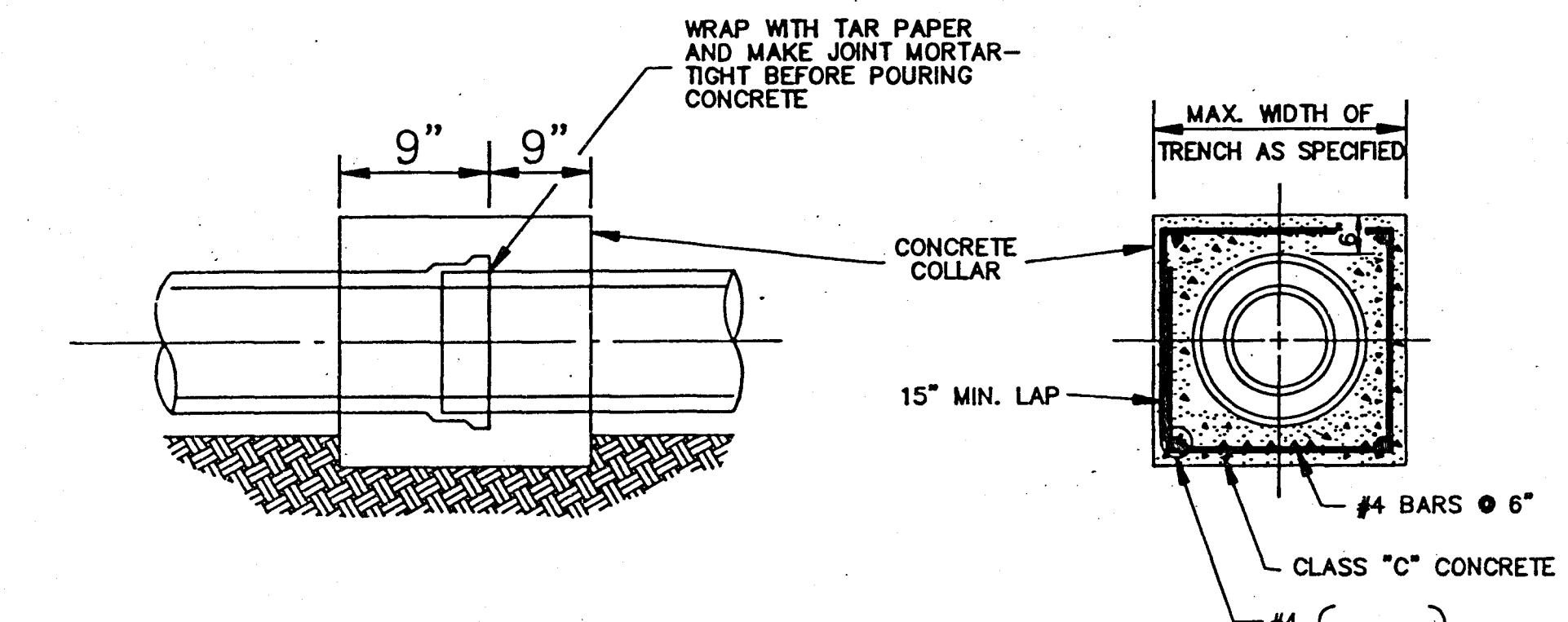
TABLE "B"  
GAGES OF LINER PLATE FOR CONTINUOUS LOAD-CARRYING STRUCTURES

NOMINAL DIA. (INCHES)	HEIGHT OF COVER (FEET)									
	2-5	6-10	11-15	16-20	21-25	30	35	40	45	50
48	12	12	12	12	12	12	12	12	10	8
54	12	12	12	12	12	12	12	10	8	7
60	12	12	12	12	12	12	12	10	8	7
66	12	12	12	12	12	12	10	8	7	5
72	12	12	12	12	12	10	8	7	5	5
78	12	12	12	10	8	7	5	5	5	5
84	12	12	10	10	8	5	5	5	5	5
96	12	10	10	10	8	5	5	5	5	5
108	10	10	10	10	8	7	5	5	5	5
120	10	10	10	8	8	7	5	5	5	3
144	8	8	8	8	5	5	3	1	1	1

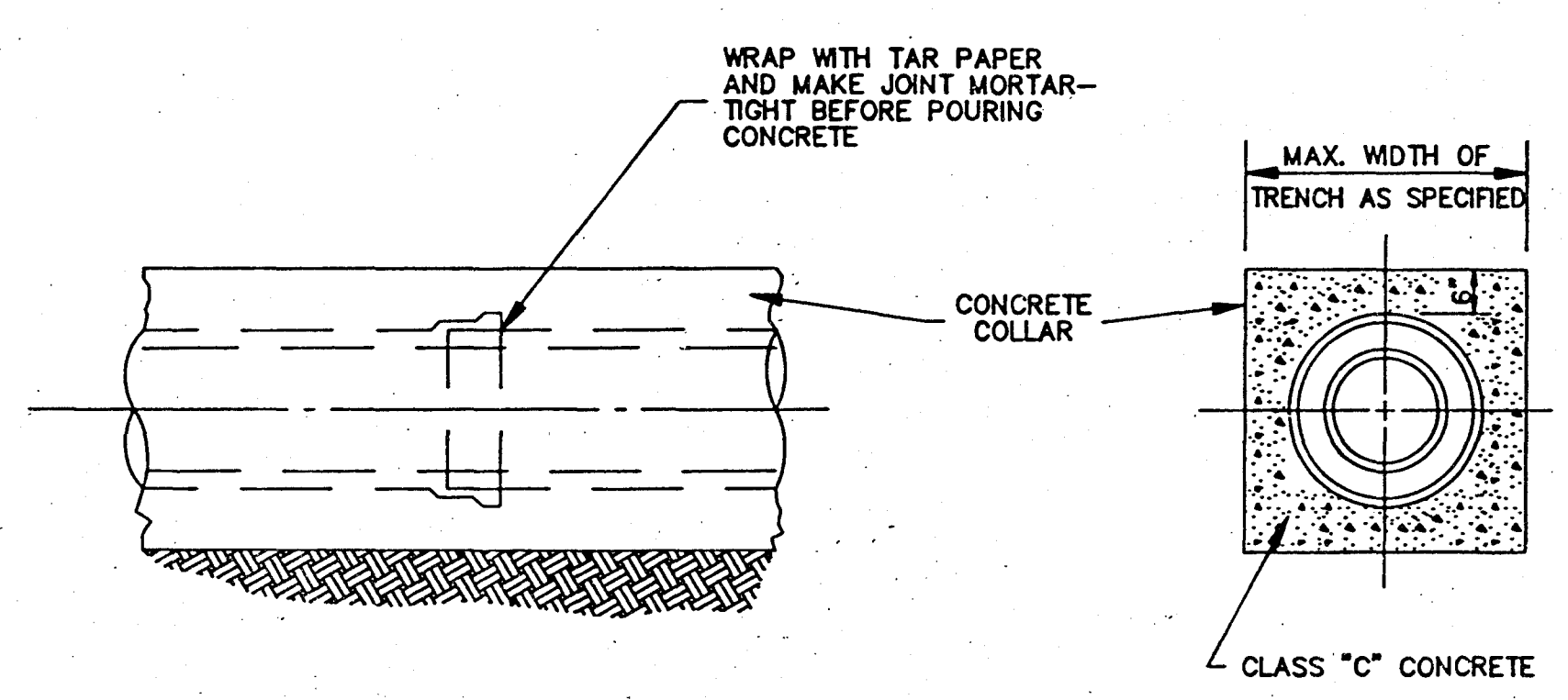
MIN. THICKNESS FOR LINER PLATE CASING IN RAILROAD CROSSING-10 GAGE

CASING PIPE

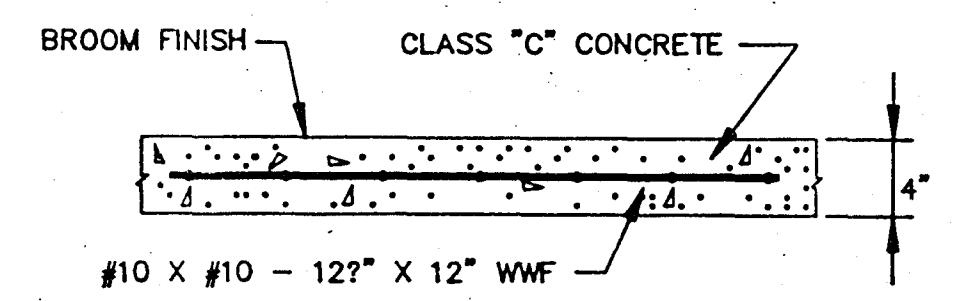
SIZE AND THICKNESS OF PIPE FOR RAILROAD & HIGHWAY CROSSING



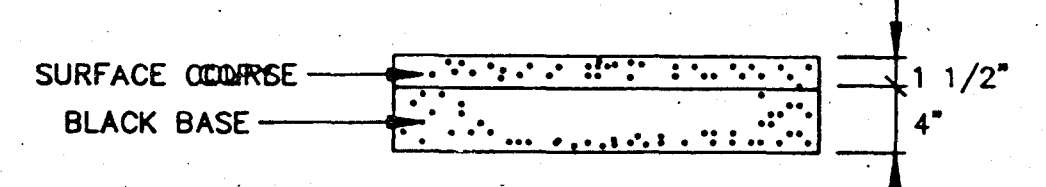
TYPICAL DETAIL OF CONCRETE COLLAR  
N.T.S.



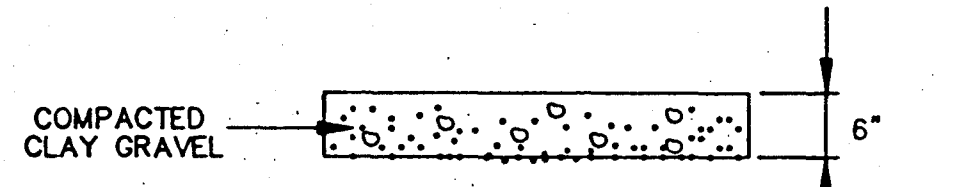
TYPICAL DETAIL OF CONCRETE ENCASEMENT  
N.T.S.



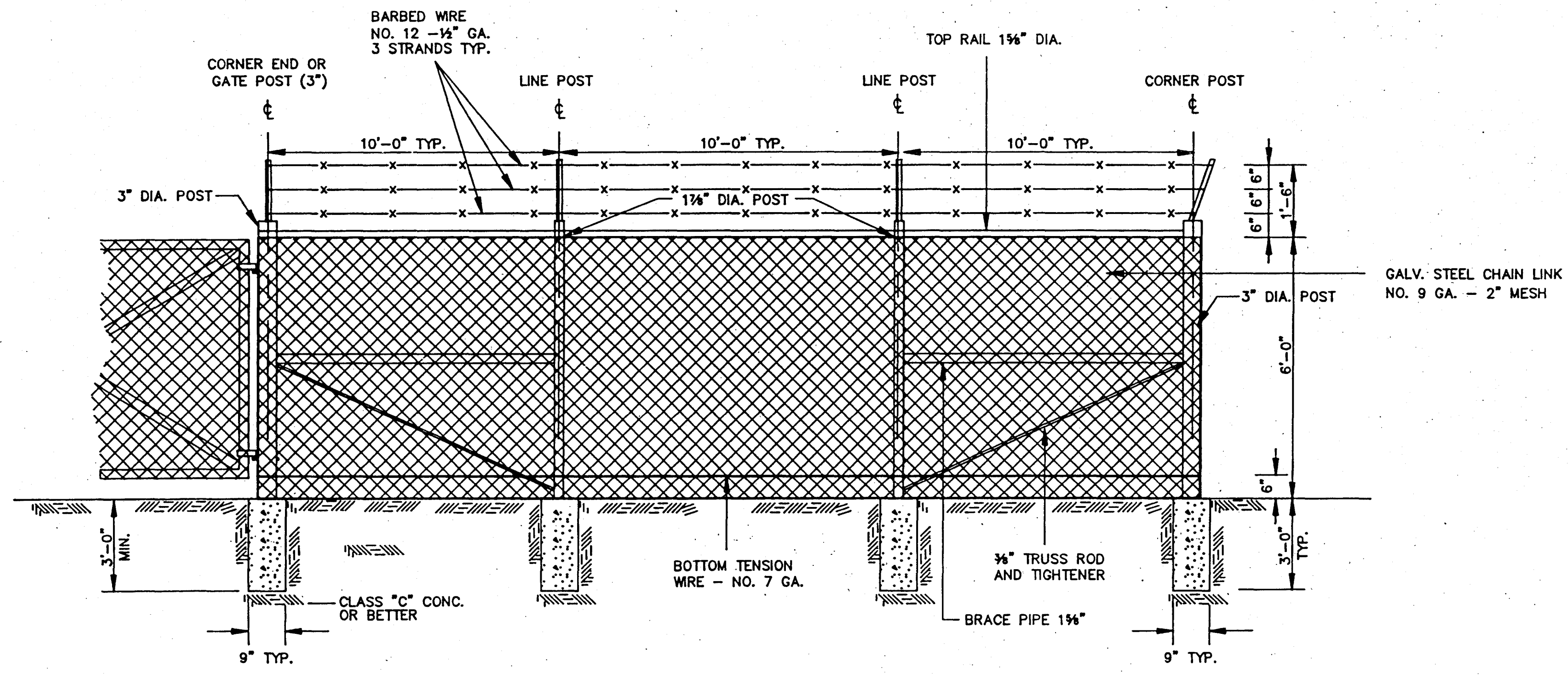
TYPICAL CONC. DRIVEWAY AND SIDEWALK REPAIR



TYPICAL ASPHALT DRIVEWAY REPAIR



TYPICAL GRAVEL DRIVEWAY REPAIR



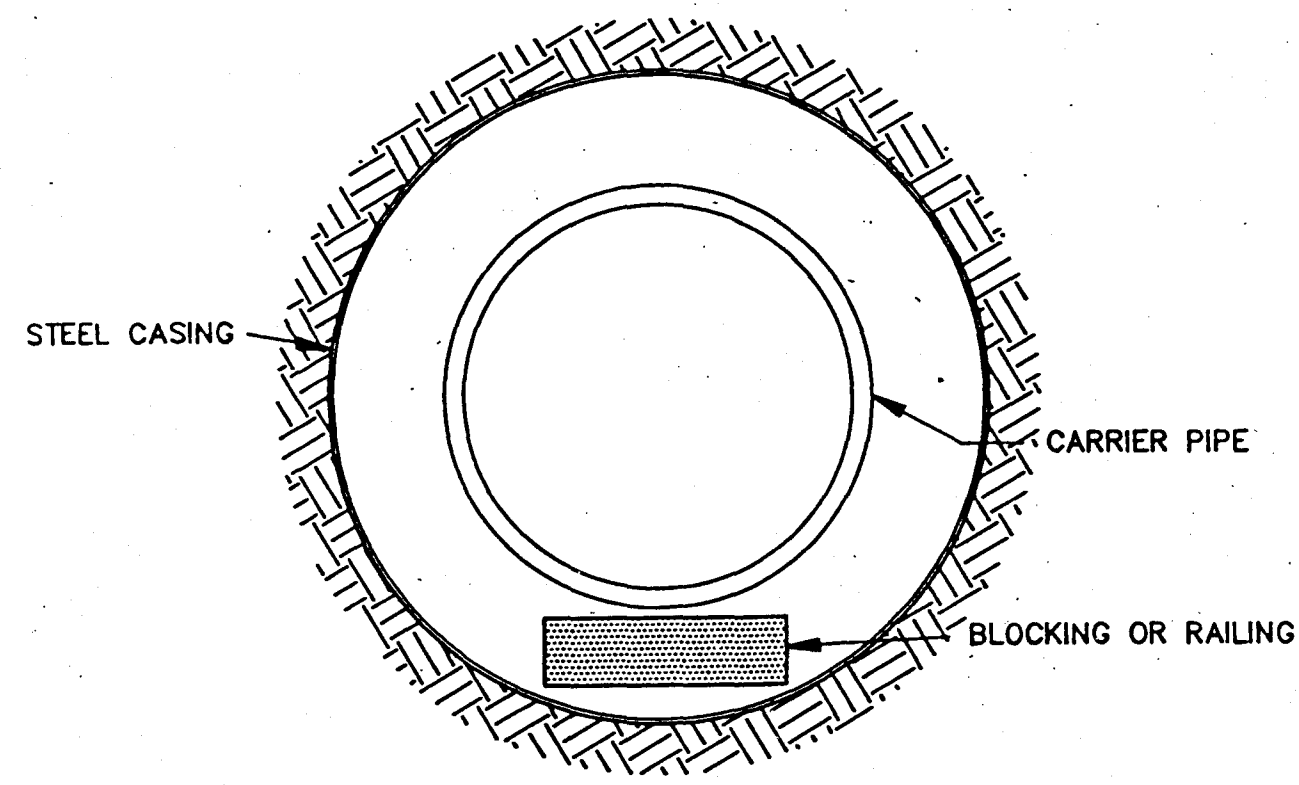
CHAIN LINK FENCE DETAIL  
N.T.S.

CITY OF RIDGELAND, MS.

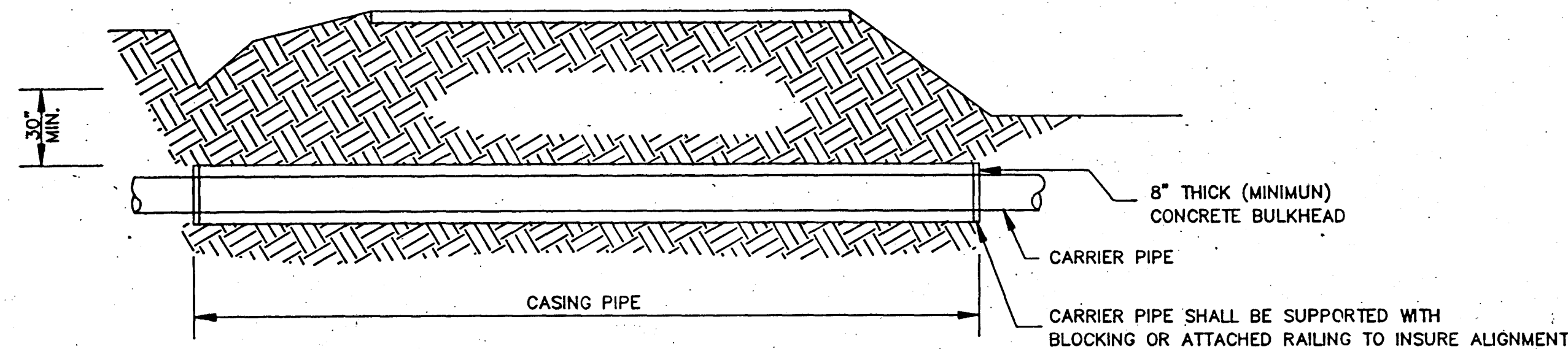
STANDARD DETAILS

DSGN:			DRAWING NO.
DRWN:			OF
CHKD:			
SCALE:			





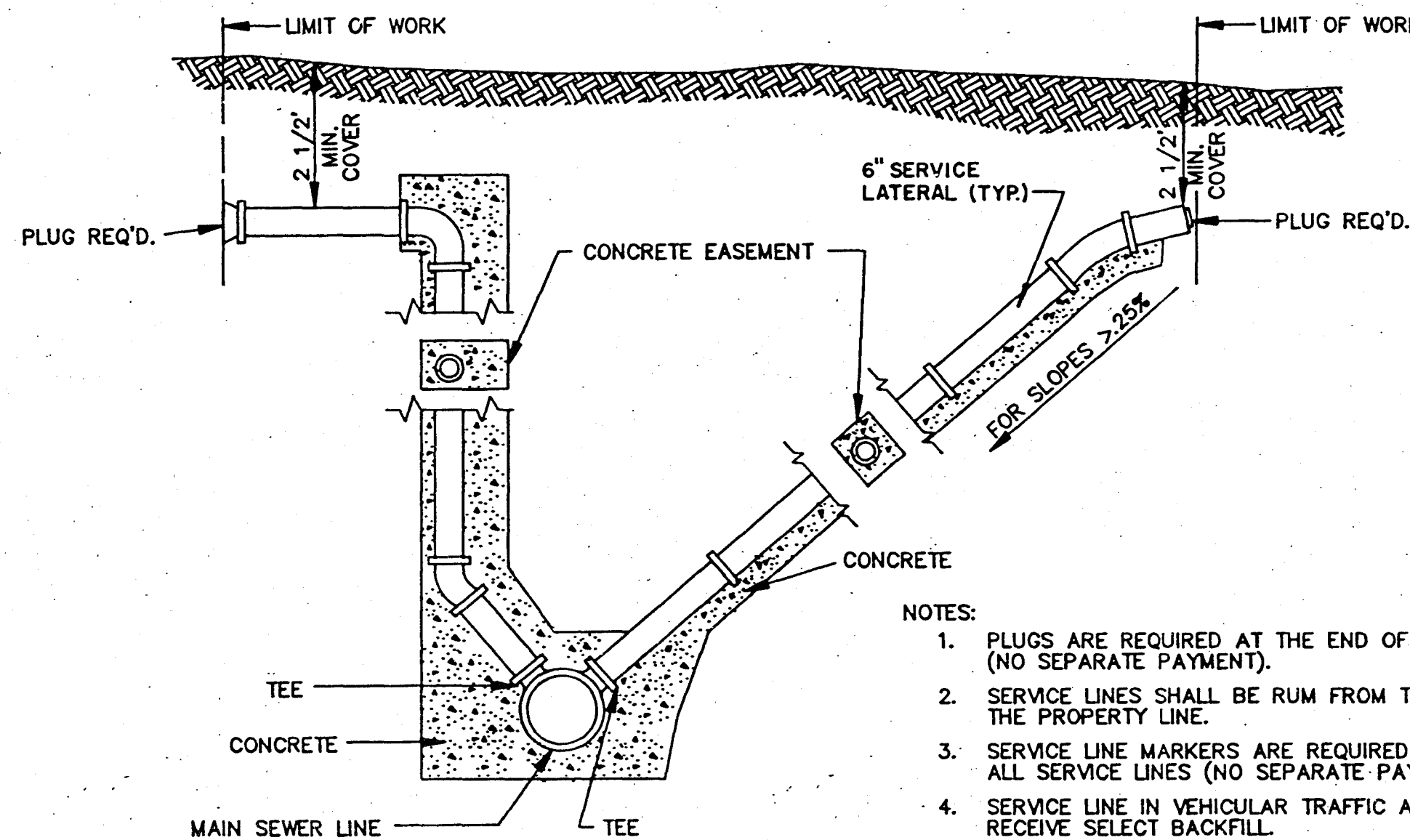
**BORE SECTION**  
N.T.S.



**TYPICAL BORE SECTION**  
N.T.S.

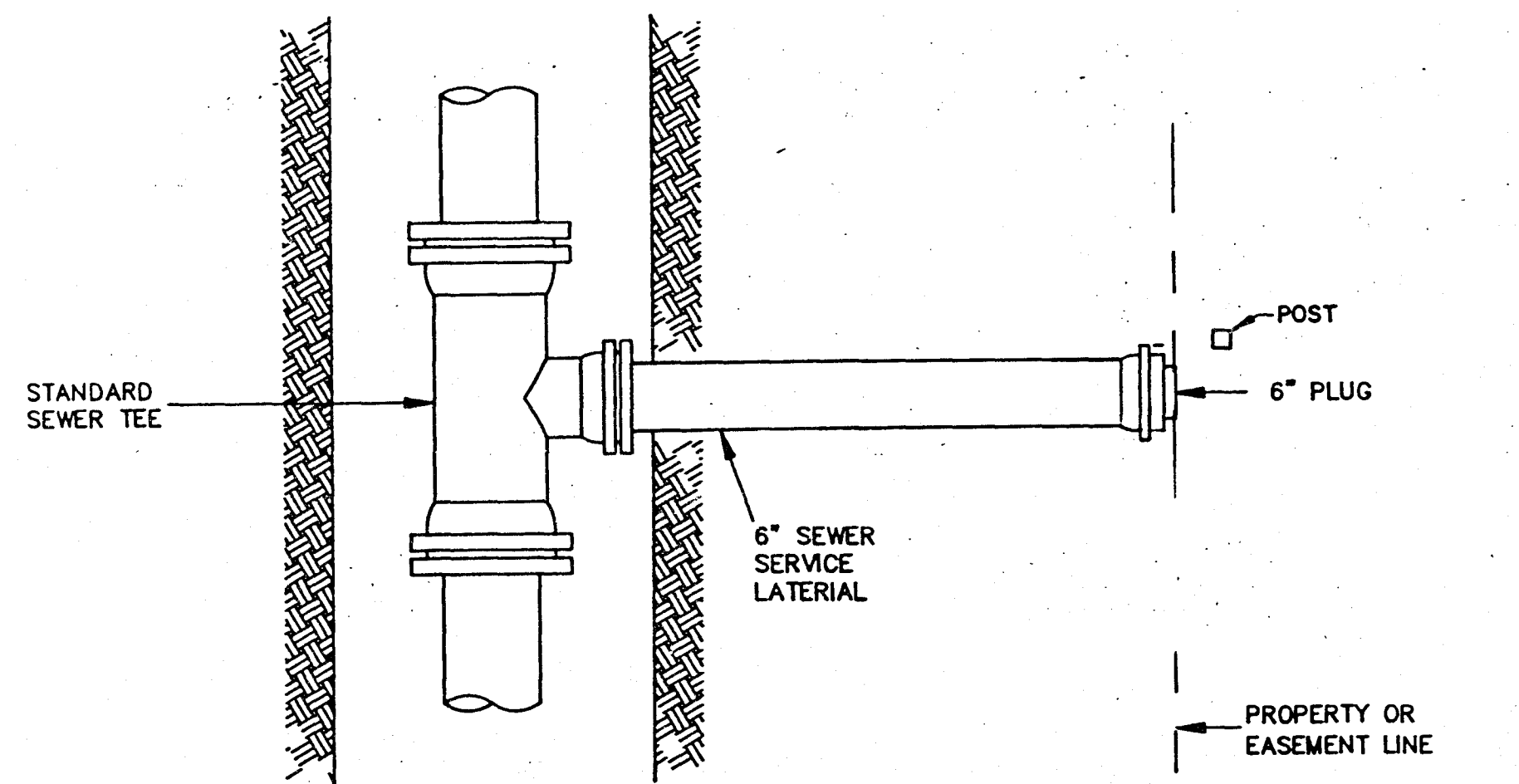
TABLE II GOVERNING DIMENSIONS FOR MANHOLES			
PIPE SIZE	Δ ANGLE	BASE DIAMETER **	"R" *
8" THRU 12"	0° TO 90°	4'	1'- 6"
15"	0° TO 60°	4'	1'- 10"
15"	60° TO 90°	4'	1'- 10"
18"	0° TO 60°	4'	2'- 3"
18"	60° TO 90°	4'	1'- 10"
21"	0° TO 60°	4'	2'- 7"
21"	60° TO 90°	5'	2'- 4"
24"	0° TO 45°	4'	3'- 0"
24"	45° TO 90°	5'	2'- 3"
30"	0° TO 60°	5'	3'- 9"
30"	60° TO 90°	6'	2'- 8"
36"	0° TO 60°	6'	4'- 6"
36"	60° TO 90°	7'	3'- 11"
42"	0° TO 60°	7'	5'- 3"
42"	60° TO 90°	8'	4'- 7"
48"	0° TO 60°	8'	6'- 0"
48"	60° TO 90°	9'	5'- 3"

\* SEE SECTIONAL PLAN, STANDARD MANHOLE  
\*\* PRECAST MANHOLE

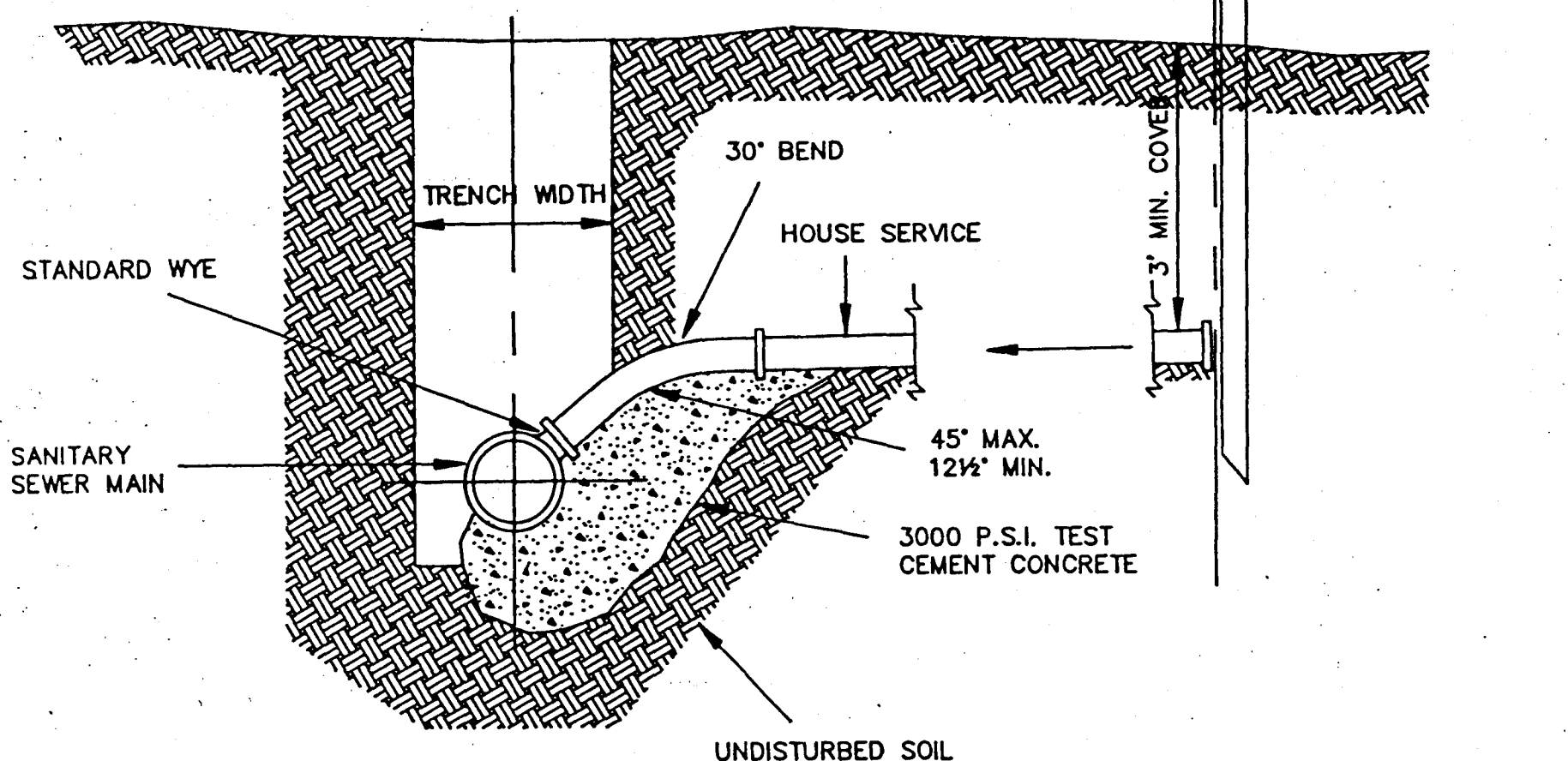


- NOTES:
1. PLUGS ARE REQUIRED AT THE END OF ALL SERVICE LINES (NO SEPARATE PAYMENT).
  2. SERVICE LINES SHALL BE RUM FROM THE SEWER LINES TO THE PROPERTY LINE.
  3. SERVICE LINE MARKERS ARE REQUIRED AT THE END OF ALL SERVICE LINES (NO SEPARATE PAYMENT).
  4. SERVICE LINE IN VEHICULAR TRAFFIC AREA SHALL RECEIVE SELECT BACKFILL.
  5. WHEN MINIMUM COVER CAN NOT BE OBTAINED DUCTILE IRON PIPE SHALL BE USED.

**SERVICE CONNECTION FOR DEEP SEWER**  
N.T.S.

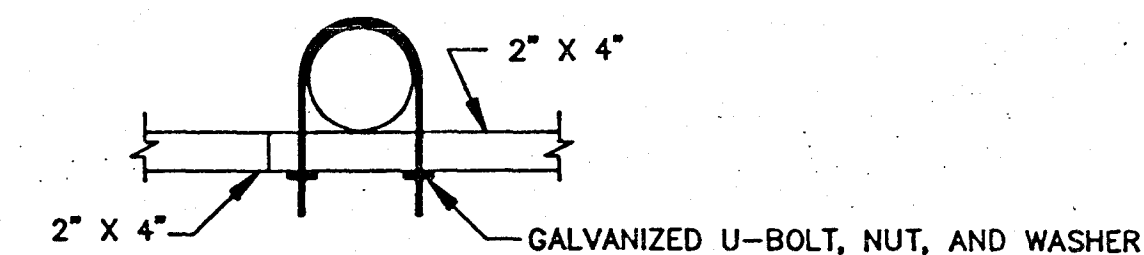


**PLAN**

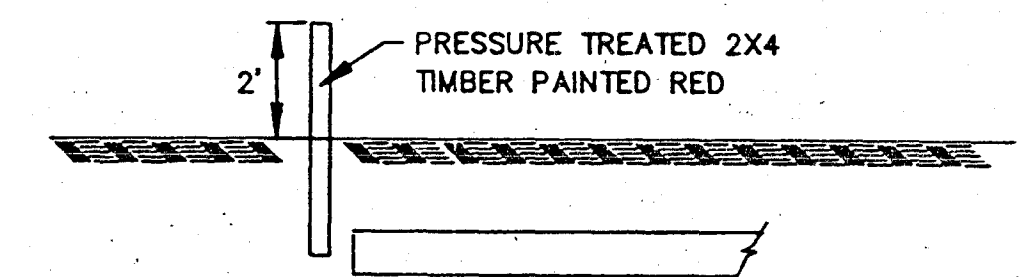


**ELEVATION**

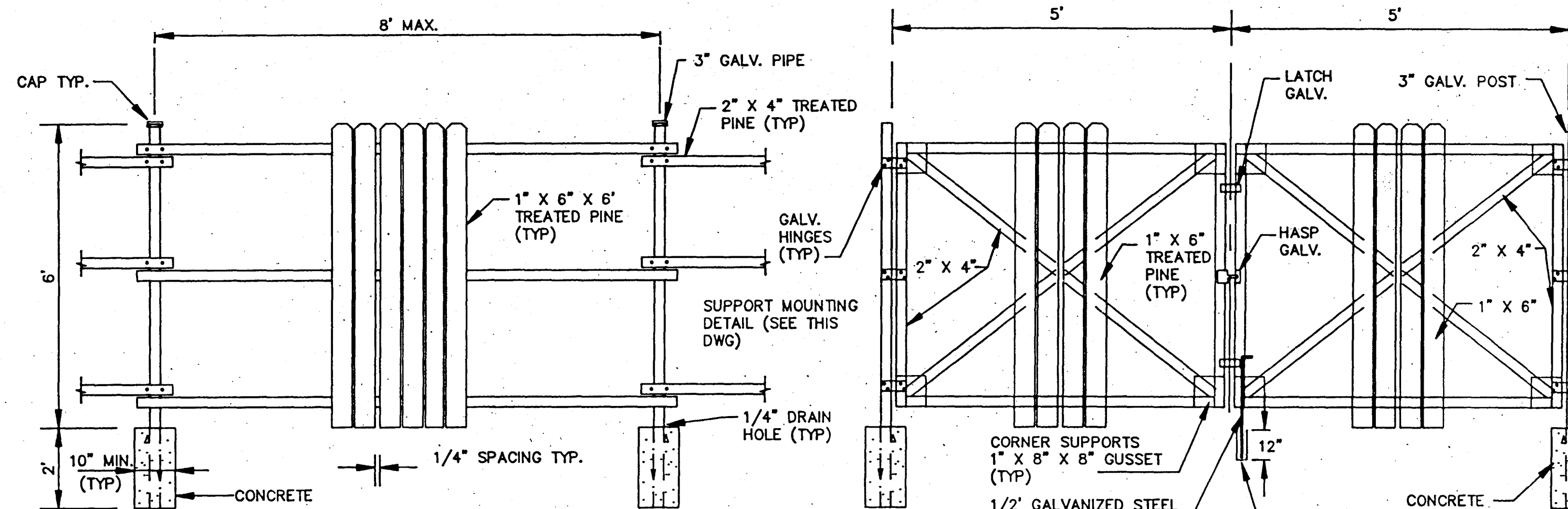
**SEWER SERVICE CONNECTION**  
N.T.S.



**SUPPORT MOUNTING DETAIL**  
N.T.S.



**SERVICE LINE MARKER**  
(NO SEPARATE PAYMENT)  
N.T.S.

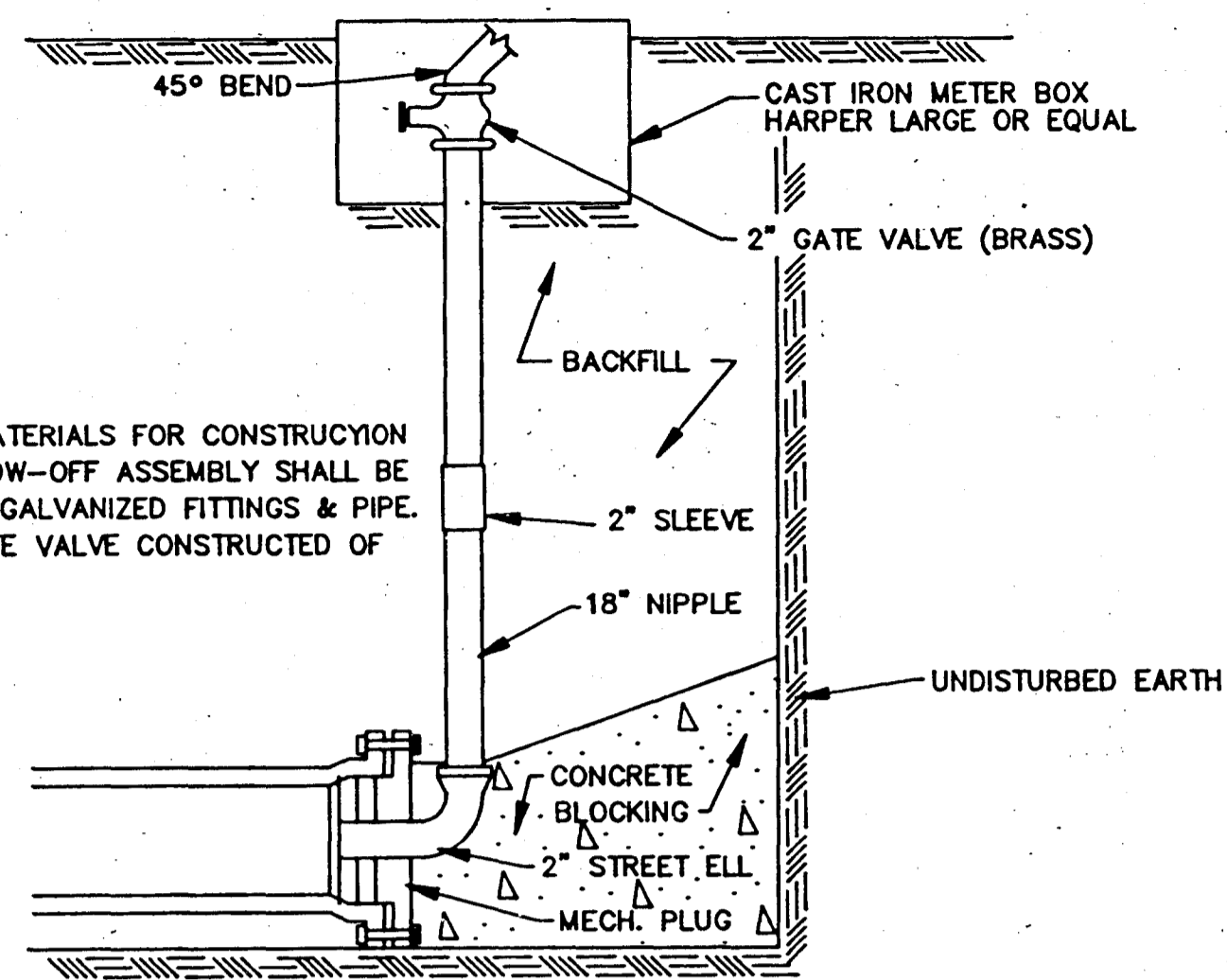


**FENCE DETAIL**  
N.T.S.

**GATE DETAIL**  
N.T.S.

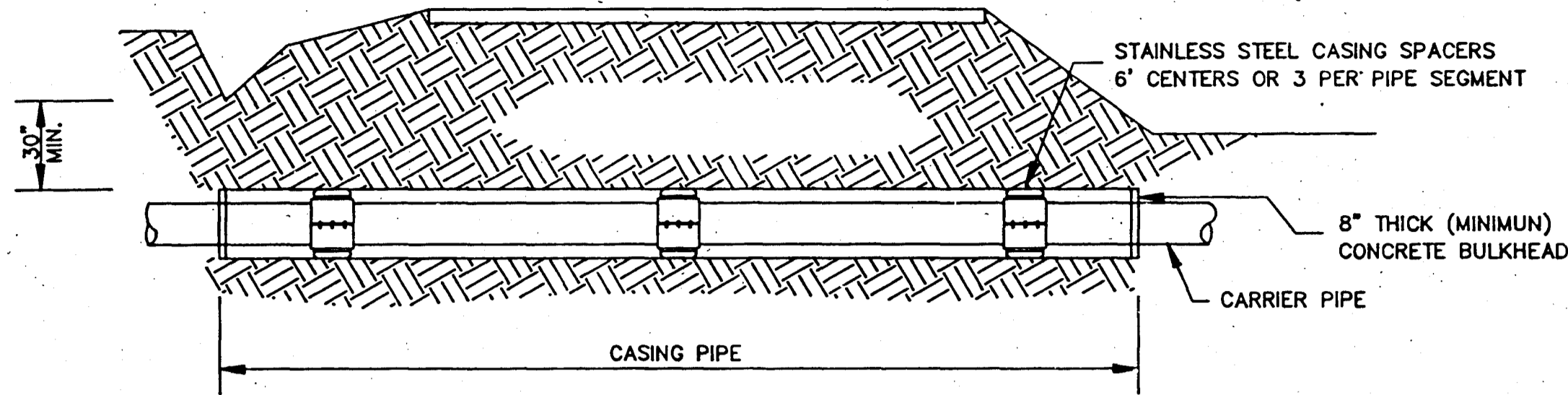
CITY OF RIDGELAND, MS.  
**STANDARD DETAILS**  
WEST WATER LINES

DSGN:	SV		DRAWING NO.
DRWN:	BRM		5 of 5
CHKD:	SV		
SCALE:	N.T.S.		

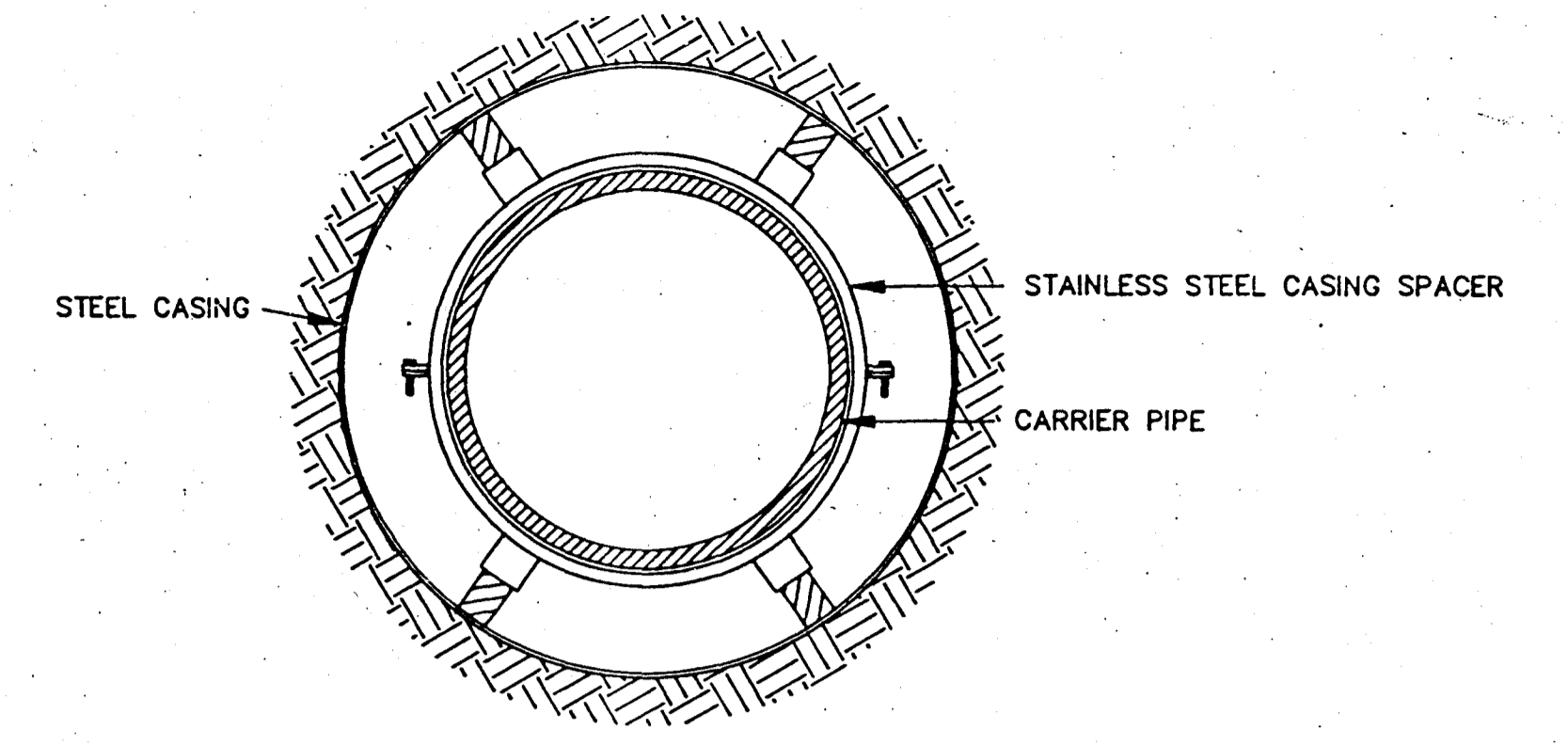


NOTE:  
ALL MATERIALS FOR CONSTRUCTION  
OF BLOW-OFF ASSEMBLY SHALL BE  
OF 2" GALVANIZED FITTINGS & PIPE.  
2" GATE VALVE CONSTRUCTED OF  
BRASS.

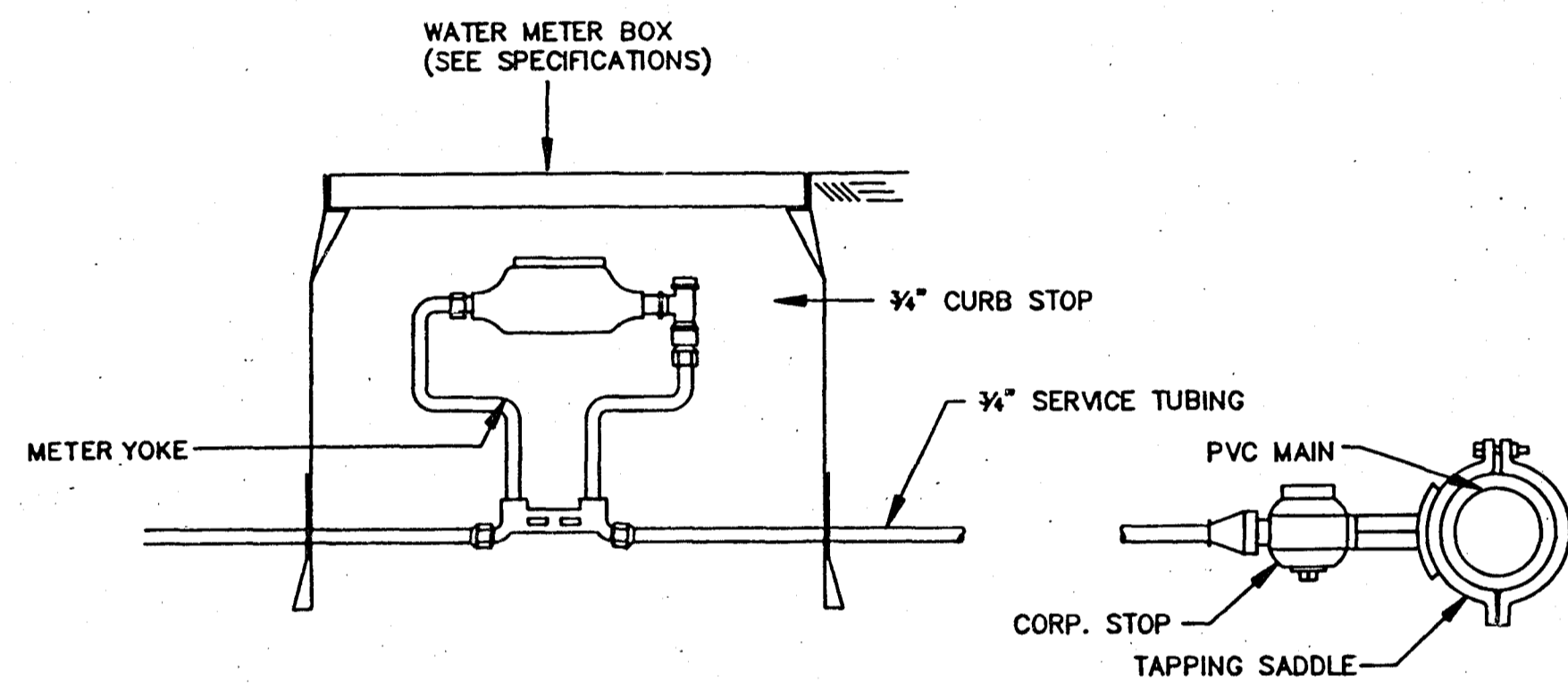
**TYPICAL BLOW-OFF ASSEMBLY**  
N.T.S.



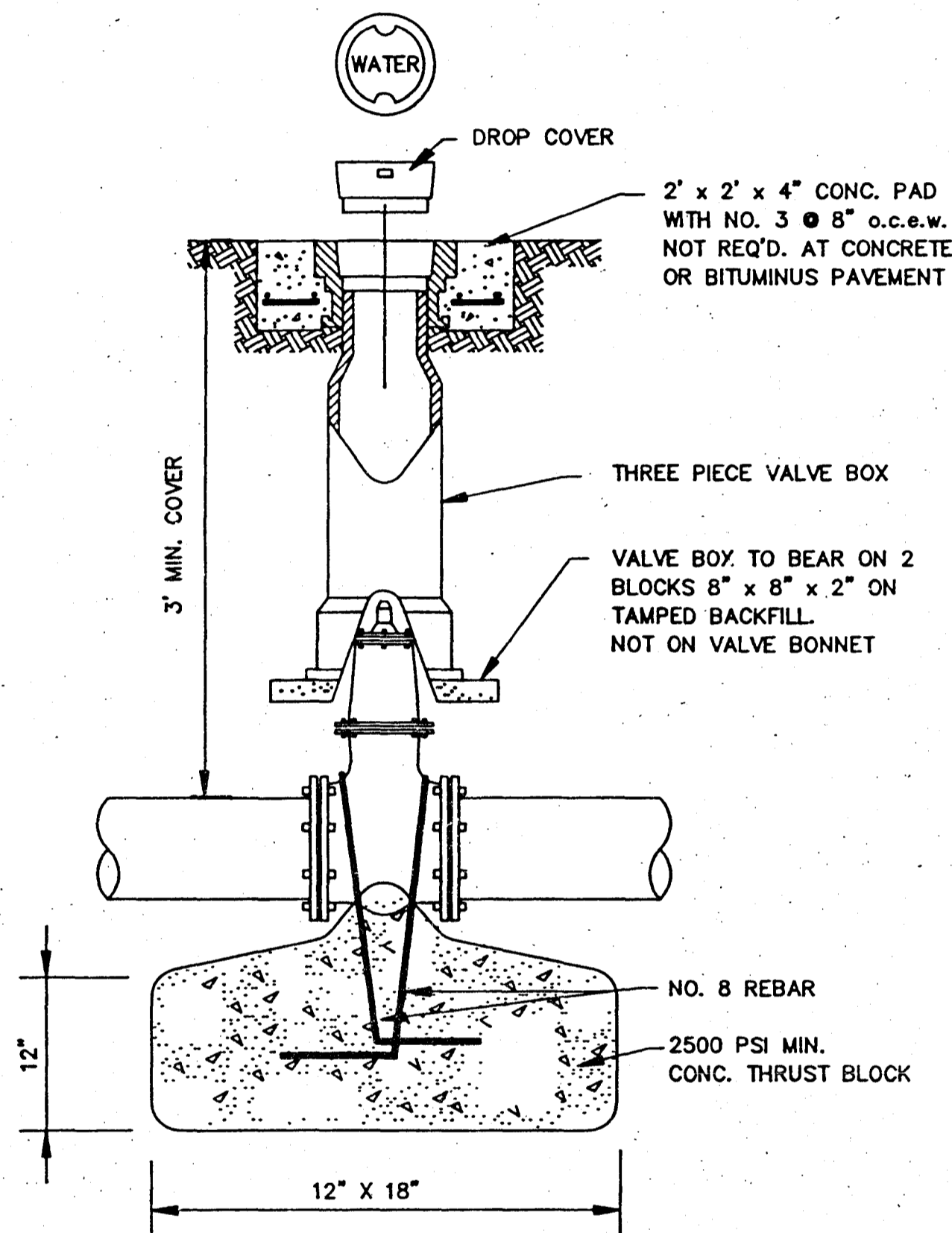
**TYPICAL BORE SECTION**  
N.T.S.



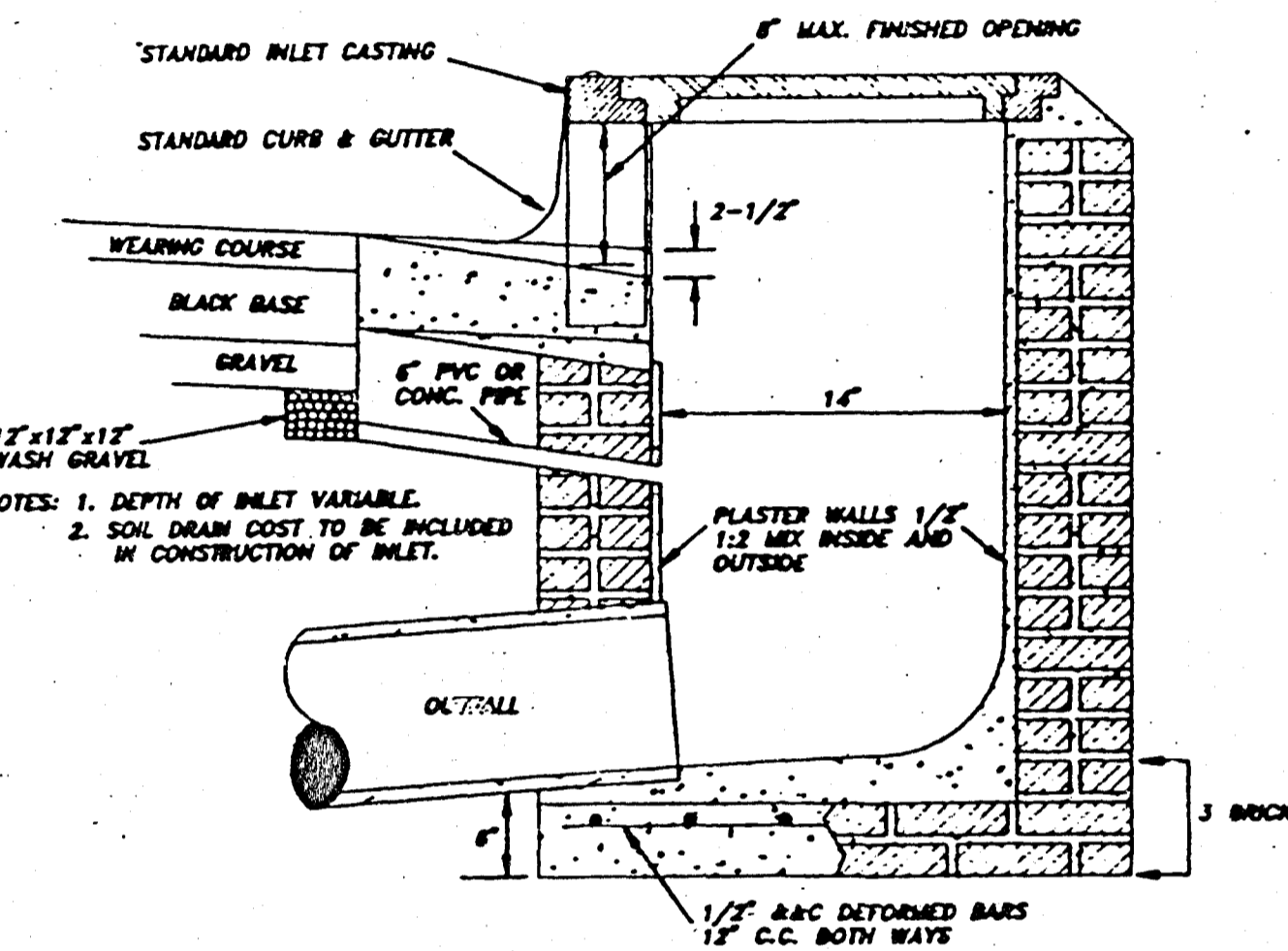
**BORE SECTION**  
N.T.S.



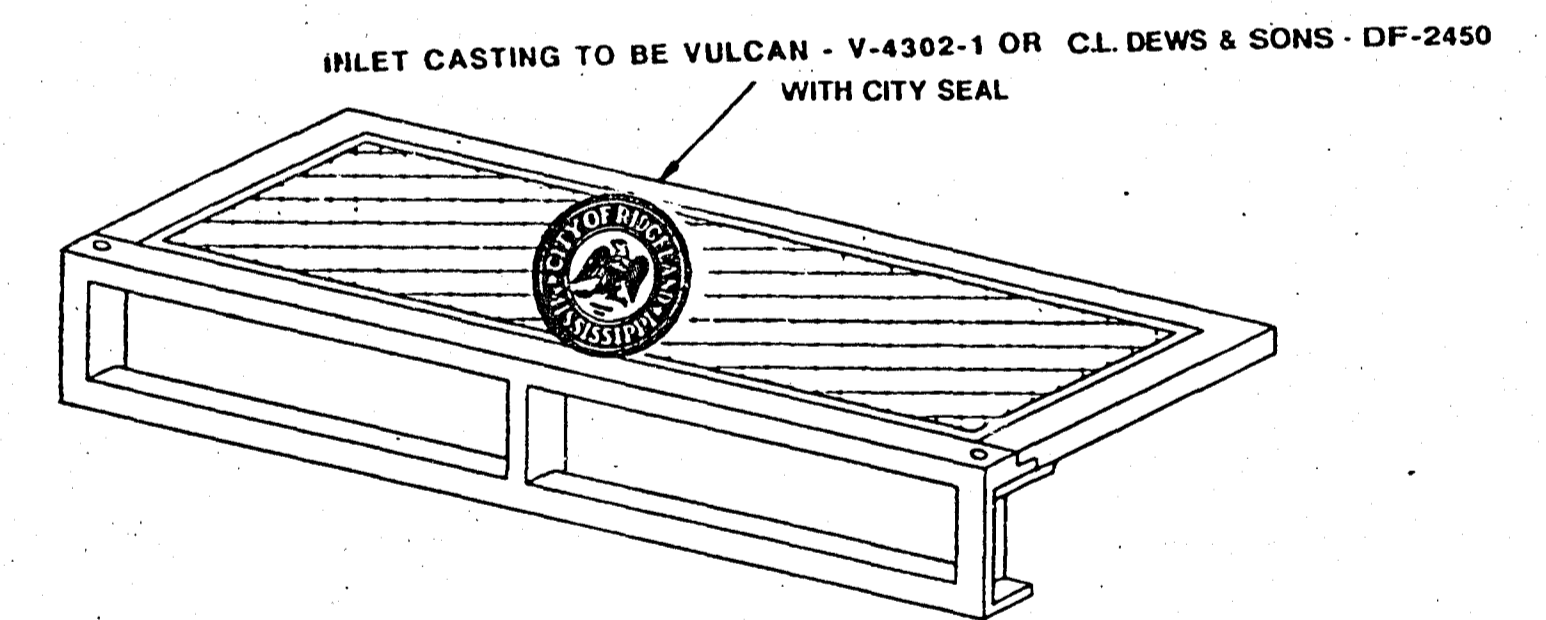
**TYPICAL 3/4" WATER SERVICE**  
N.T.S.



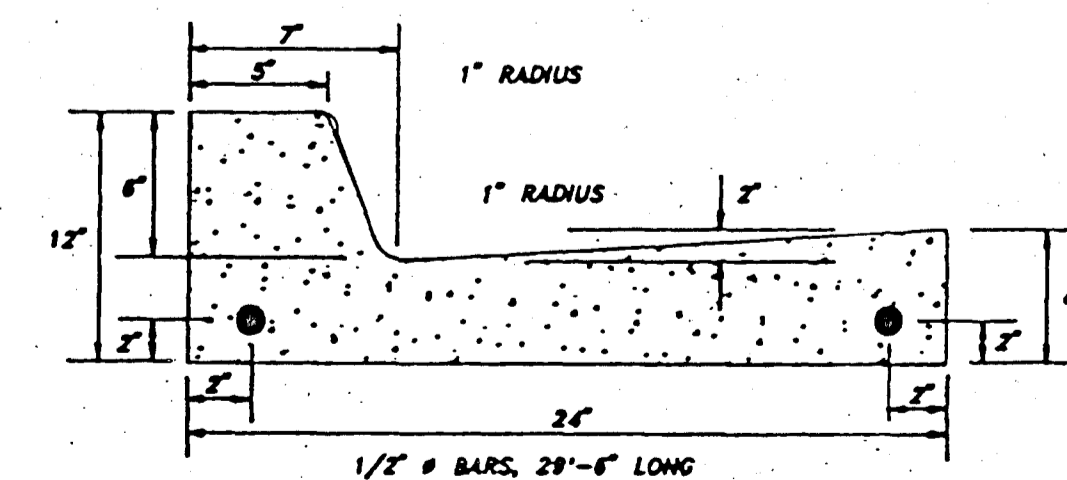
**GATE VALVE DETAIL**  
N.T.S.



**SECTION OF STANDARD CURB INLET**



**STANDARD CURB INLET CASTING**



NOTES: 1. ALL CURBS, GUTTERS & DRIVEWAYS TO BE CONSTRUCTED OF 3000 LB. CONCRETE.  
2. 2 - 3/4" DOWEL BARS, 15" LONG REQ'D. AT EXPANSION JOINTS. THEY SHALL BE HELD IN PLACE BY APPROVED CHAIRS OR SUPPORTS AND 1/2" EXPANSION MATERIALS.

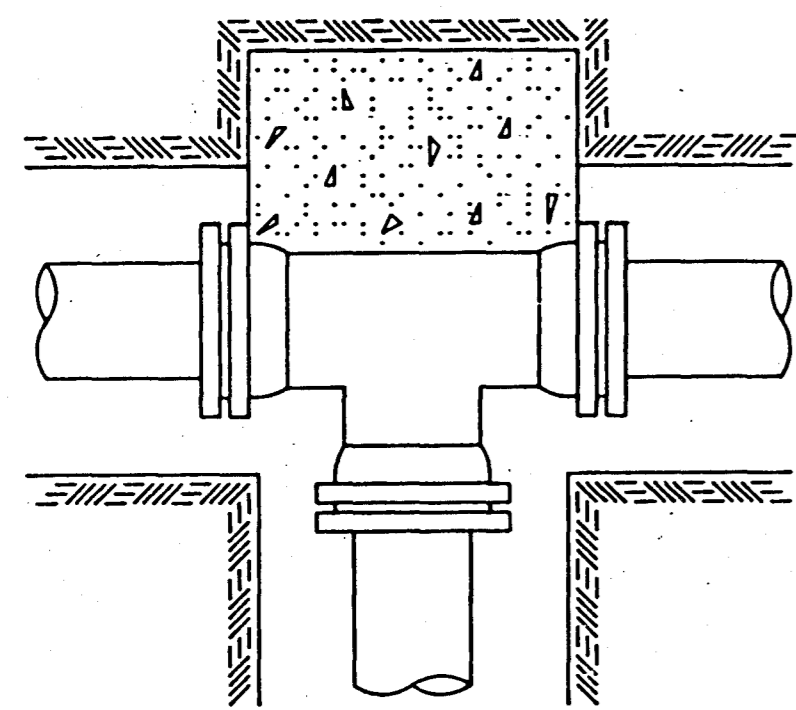
**STANDARD CURB & GUTTER**

CITY OF RIDGELAND, MS.

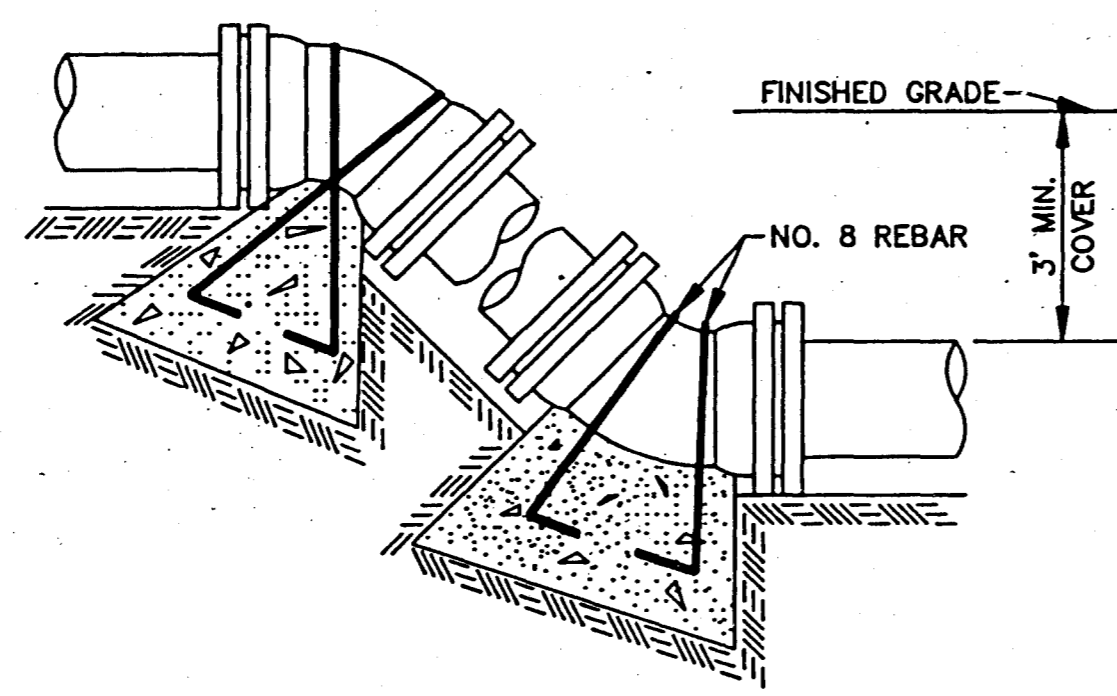
**STANDARD DETAILS**

DSGN:	SV		DRAWING NO.
DRWN:	BRM		5 of 6
CHKD:	SV		
SCALE:	N.T.S.	RIDGELAND	

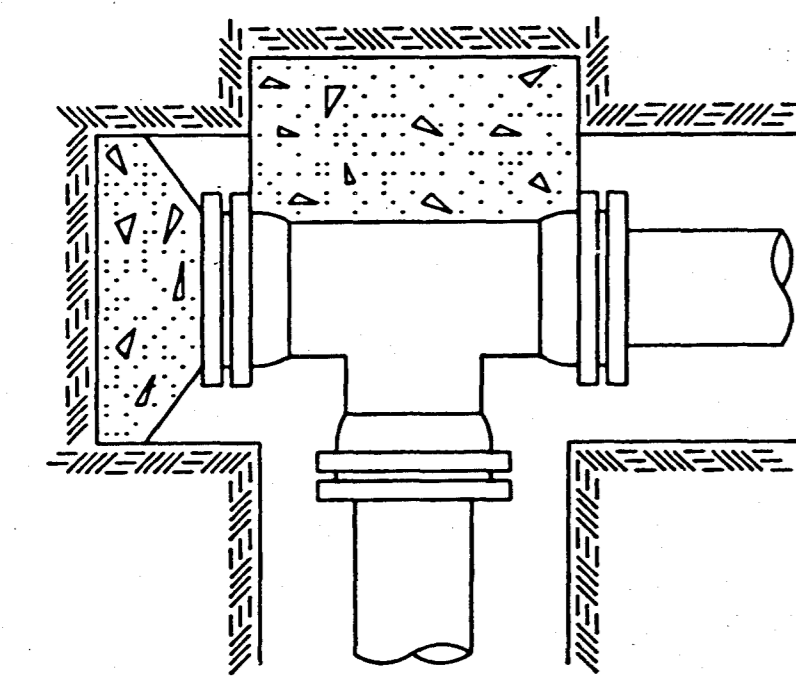




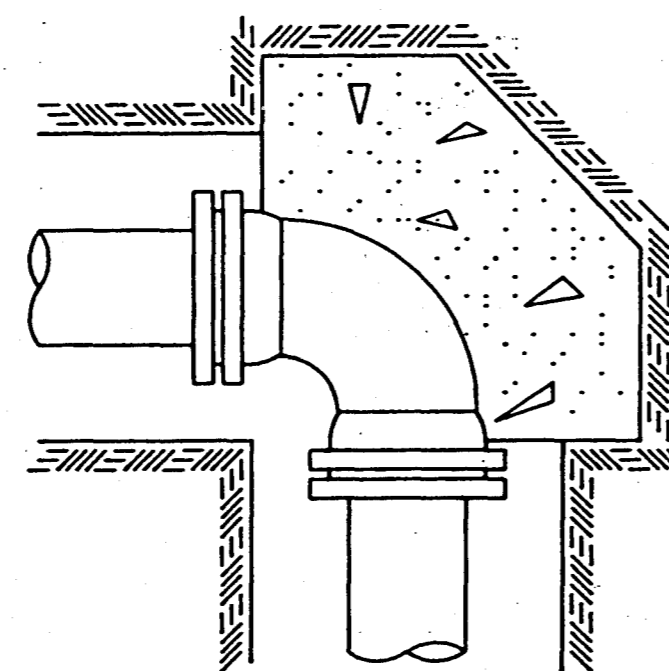
TEE



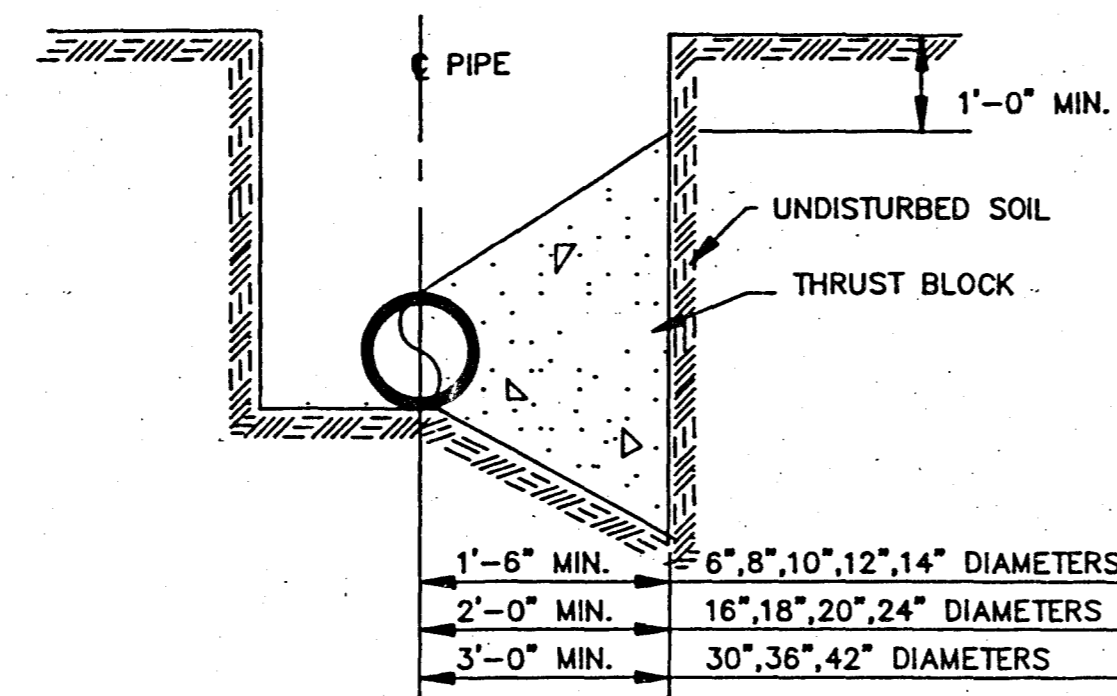
VERTICAL BENDS



PLUGGED TEE



90° BEND



TYPICAL CROSS SECTION

TYPICAL THRUST BLOCKING IN WATER MAINS AND SEWAGE FORCE MAINS

N.T.S.  
NOTE: ALL THRUST BLOCKS 2,500 PSI CONCRETE AGAINST UNDISTURBED EARTH

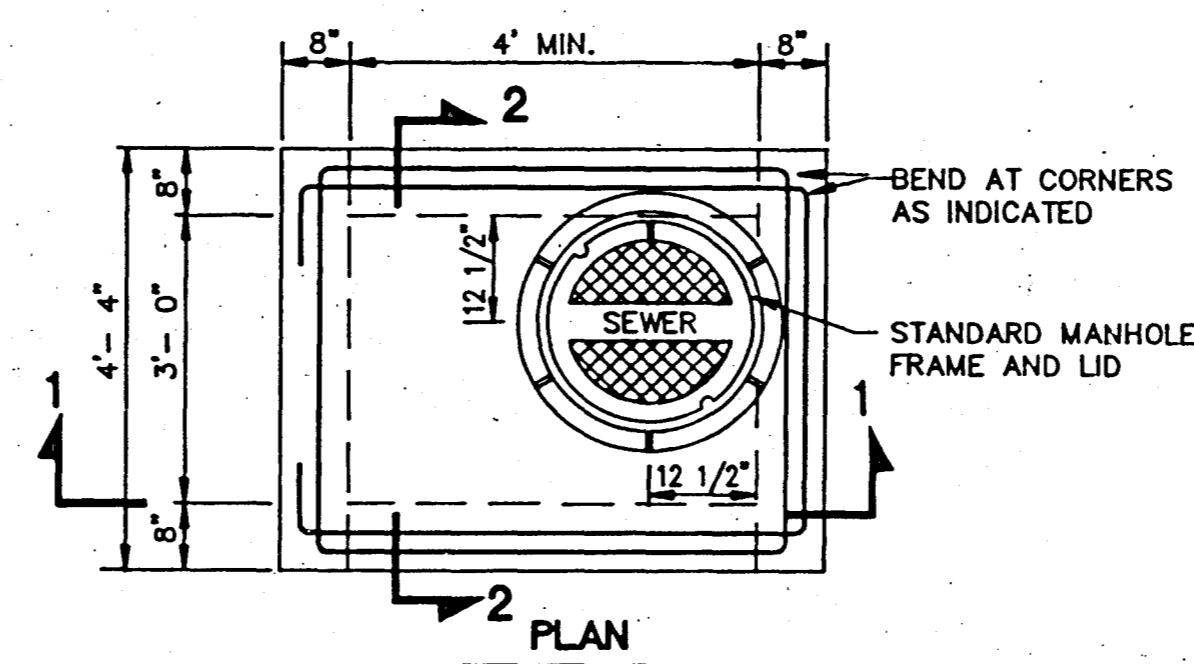
BEARING AREA IN SQ. FT.

BEARING AREA IN SQ. FT.						VERTICAL BENDS					
NOMINAL PIPE DIAMETER (IN)	DEAD-END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	NOMINAL PIPE DIAMETER (IN)	DEAD-END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
6	2.5	3.0	2.0	2.0	2.0	6	—	—	26.0(1.0)	14.0(.5)	7.0(.3)
8	4.0	6.0	3.0	2.0	2.0	8	—	—	45.0(1.7)	25.0(.9)	13.0(.5)
10	6.0	9.0	5.0	2.5	2.0	10	—	—	68.0(2.5)	37.0(1.4)	19.0(.7)
12	9.0	11.0	6.0	3.5	2.0	12	—	—	97.0(3.6)	52.0(1.9)	27.0(1.0)
14	12.0	18.0	9.0	5.0	2.5	14	—	—	130(4.8)	70.0(2.6)	36.0(1.3)
16	16.0	22.5	12.0	6.0	3.0	16	—	—	168(6.2)	91.0(3.4)	46.0(1.7)
18	20.0	28.0	15.0	8.0	4.0	18	—	—	211(7.8)	114(4.2)	58.0(2.2)
20	24.5	34.0	19.0	10.0	5.0	20	—	—	259(9.6)	140(5.2)	72.0(2.6)
24	35.0	49.0	27.0	14.0	7.0	24	—	—	370(13.7)	200(7.4)	102(3.8)
30	54.0	76.0	41.0	21.0	10.0	30	—	—	568(21.1)	308(11.4)	156(5.8)
36	77.0	108.0	59.0	30.0	15.0	36	—	—	814(30.1)	440(16.3)	225(8.3)
42	104.0	146.0	79.0	40.0	20.0	42	—	—	1100(40.7)	595(22.0)	303(11.2)

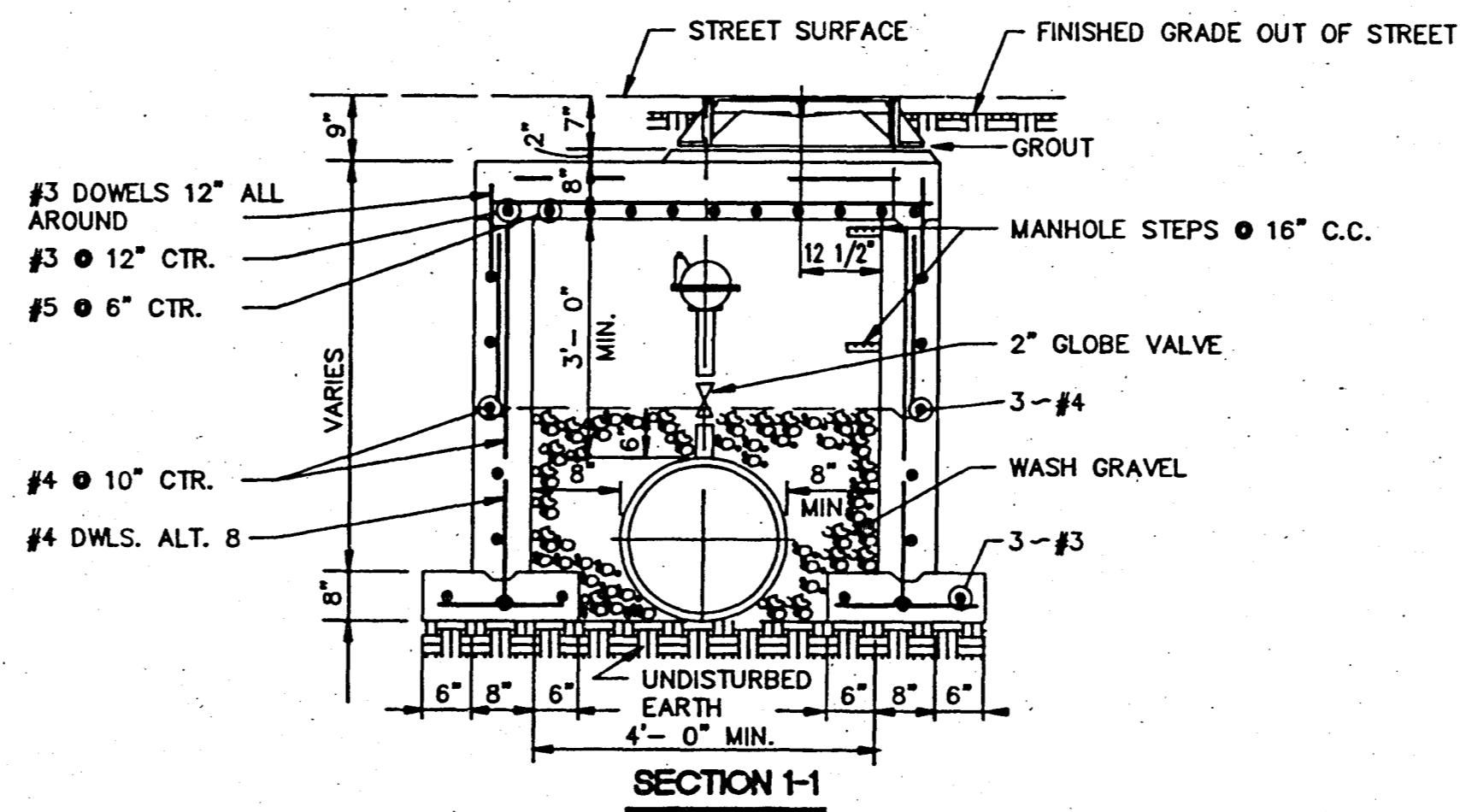
VOLUME OF BLOCKS INCLUDING SOIL LOAD CU. FT. (CU. YDS.)

NOTE: ABOVE VALUES CALCULATED USING P=100 AND ALLOWANCE SOIL BRG. = 1500 PSF. FOR DIFFERENT P, MULTIPLY ABOVE VALUES BY P/100. FOR DIFFERENT SOIL BRG, MULTIPLY ABOVE VALUES BY 1500/S.B.

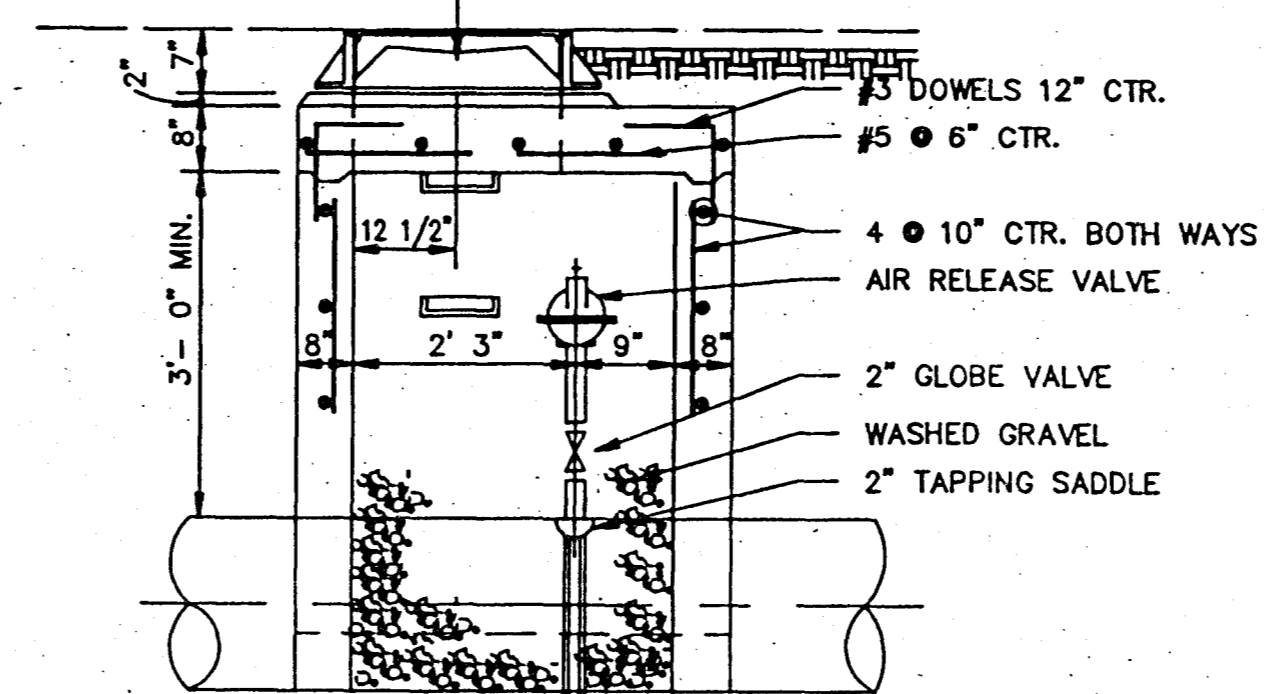
NOTE: ABOVE VALUES REPRESENT THE VOLUME OF BLOCKS INCLUDING SOIL LOAD IN CU.FT. (CU.YDS.) THE VALUES WERE CALCULATED USING A P=100 PSI AND A S.F.=1.5. FOR DIFFERENT P, MULTIPLY VALUES BY P/100.



2 PLAN



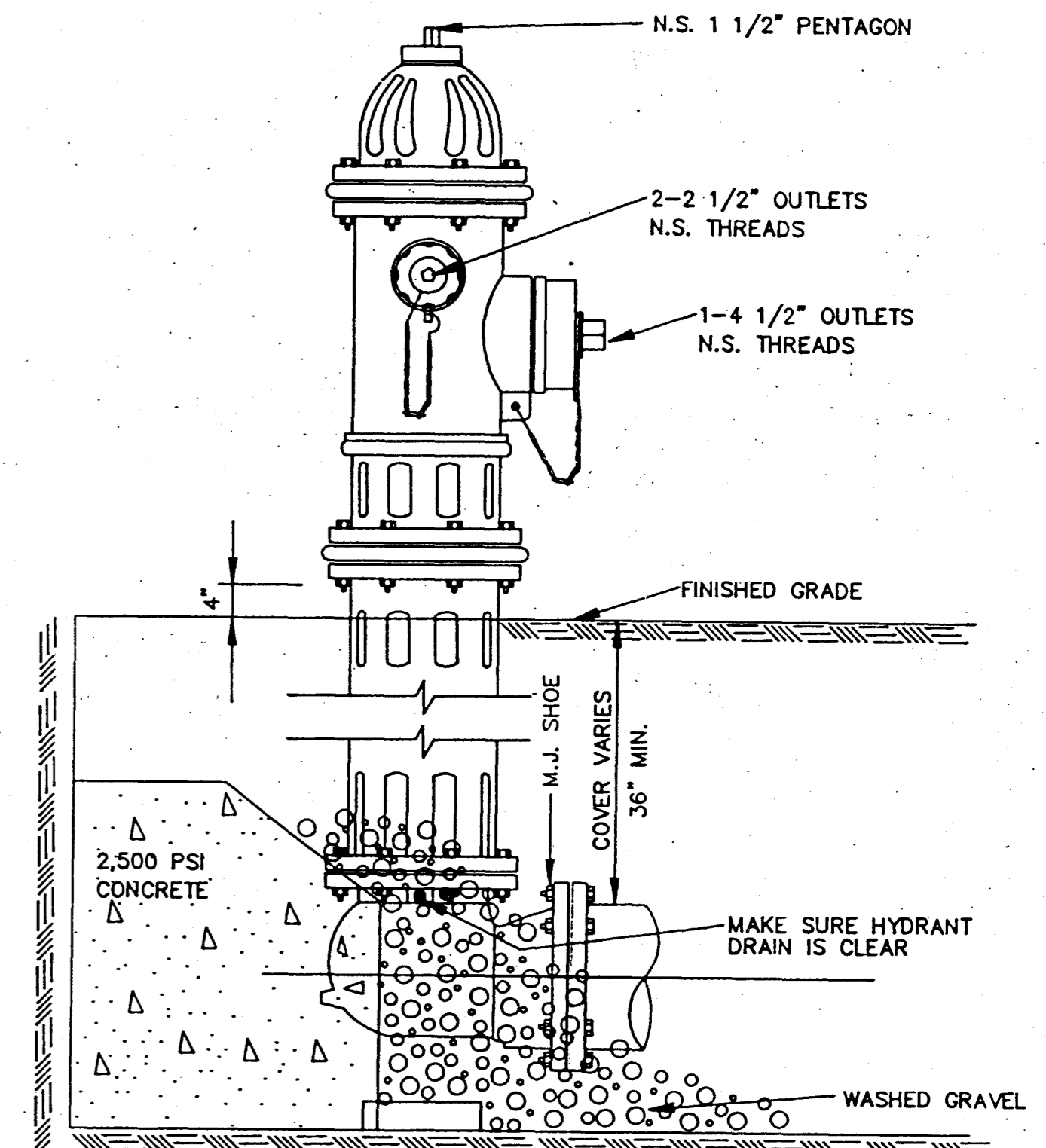
SECTION 1-1



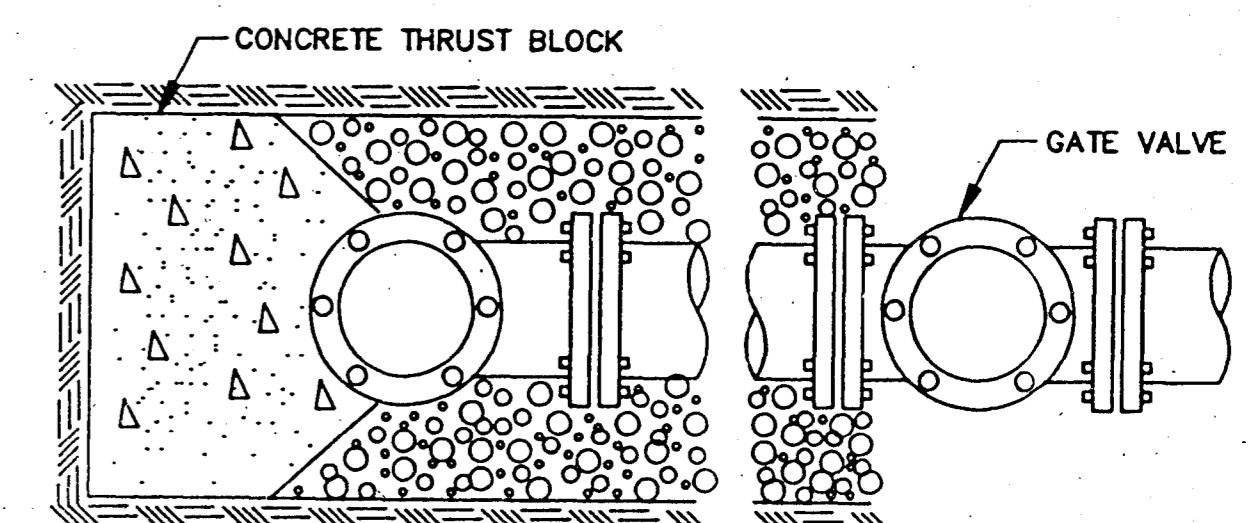
SECTION 2-2

TYPICAL AIR OR AIR VACCUUM RELEASE VALVE INSTALLATION WITH MANHOLE

NOT TO SCALE



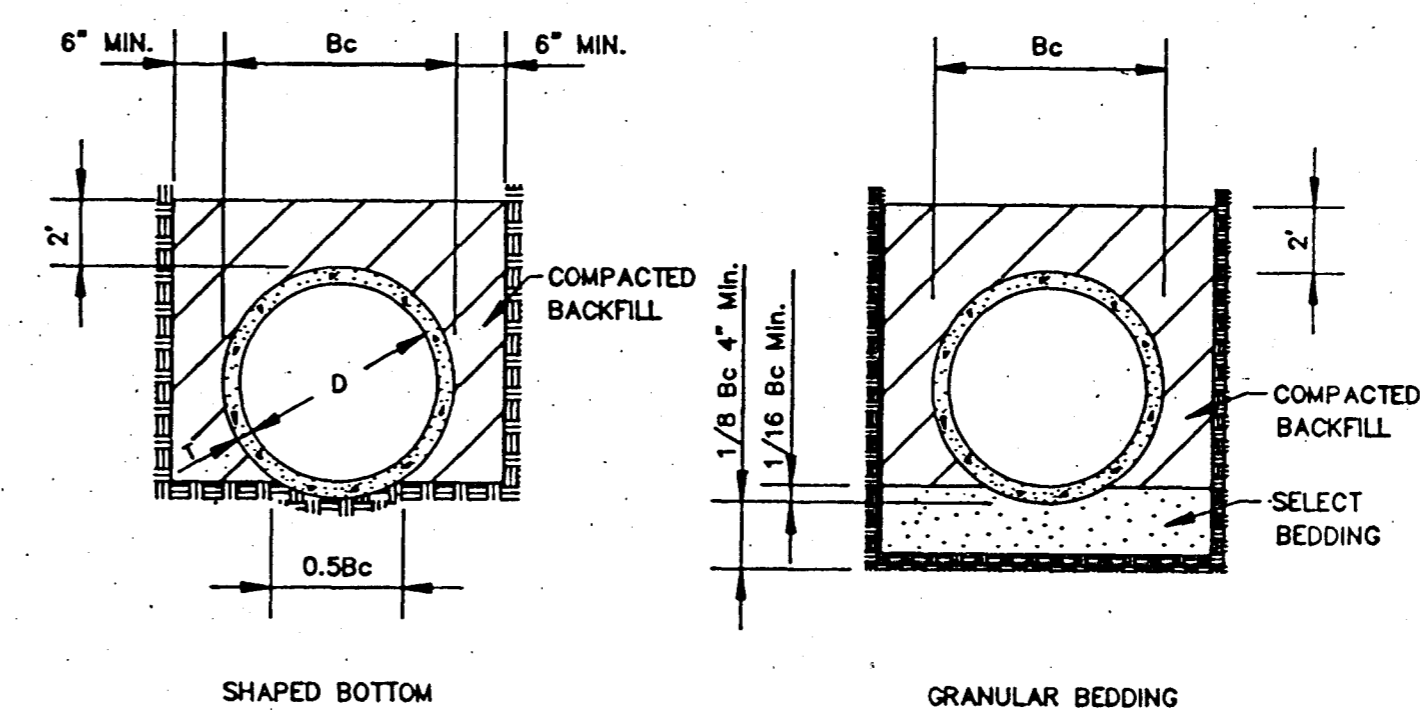
ELEVATION



PLAN

TYPICAL FIRE HYDRANT INSTALLATION

NOTE: GATE VALVES WILL BE REQUIRED ON ALL FIRE HYDRANT LEGS. N.T.S. ANCHOR COUPLINGS REQ'D.



SHAPED BOTTOM

GRANULAR BEDDING

TYPICAL TRENCH DETAILS

N.T.S.

CITY OF RIDGELAND, MS.

STANDARD DETAILS

DSGN: SV  
DRWN: BRM  
CHKD: SV  
SCALE: N.T.S.



DRAWING NO. 6 OF 6