

THE TOWNSHIP AT COLONY PARK

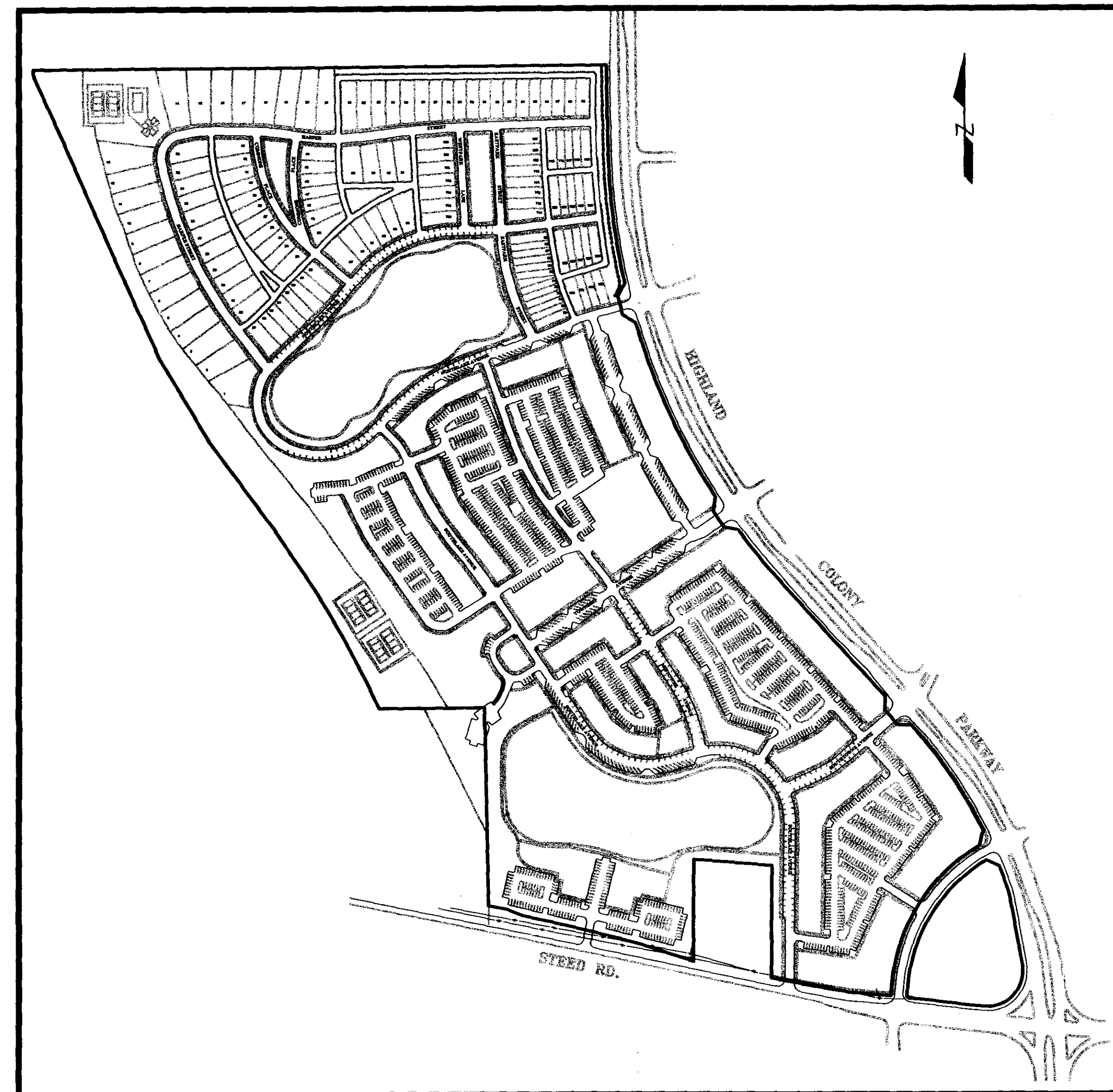
STREET AND SITE UTILITIES PHASE 1

RIDGELAND, MS

OWNER:
THE TOWNSHIP LAND CO., LLC

BY:
KERIOTH CORPORATION

PREPARED BY:
DIVERSIFIED CONSULTANTS



AUGUST 2002

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CONSULTING ENGINEERS ... CITY, COUNTY, AND REGIONAL PLANNERS

395 EDGEWOOD TERRACE
JACKSON, MS 39206

RECORD DRAWING
06-24-2003

D. SCOTT BONNER - ENGINEER

POP-02020

GENERAL NOTES

CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES (POWER, GAS, WATER, SEWER, TELEPHONE, ETC.) WITH THE APPROPRIATE UTILITY COMPANY BEFORE BEGINNING CONSTRUCTION.

ANY UTILITY LINE OR SERVICE LINE ENCOUNTERED DURING CONSTRUCTION, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE PROTECTED.

THE HORIZONTAL AND VERTICAL CLEARANCES ON ALL UTILITY CROSSINGS SHALL BE VERIFIED BEFORE INSTALLATION.

DAILY CLEANUP OF MATERIALS AND SUPPLIES WILL BE REQUIRED. THE JOB SITE SHALL BE MAINTAINED IN A NEAT AND ORDERLY FASHION.

THE CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL, MAINTAIN, AND REMOVE ALL BARRICADES AND SIGNS REQUIRED FOR PROPER TRAFFIC CONTROL AS DETAILED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FOR WORK ADJACENT TO HIGHLAND COLONY PARKWAY.

ITEMS SHOWN AS REQ'D BUT NOT INCLUDED AS SPECIFIC ITEMS ON THE BID SCHEDULE SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

ROADWAY CURB INLETS SHALL BE PRECAST CONCRETE, OR POURED IN PLACE CONCRETE.

ALL CONSTRUCTION METHODS AND MATERIALS SHALL MEET THE REQUIREMENT OF THE CITY OF RIDGELAND, WHEN SPECIFIC REQUIREMENTS EXIST.

CLEARING AND GRUBBING FOR THIS CONTRACT IS AREA BOUNDED BY THE CONSTRUCTION LIMITS OF THE STREET CONSTRUCTION AS SHOWN BY THE TIE LIMITS ON THE CROSS-SECTION PLANS.

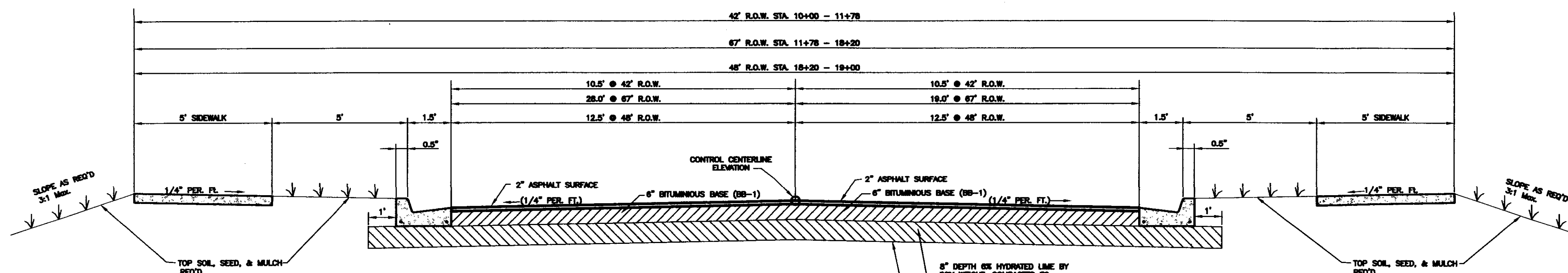
CONTRACTOR SHALL CONSTRUCT STREET PAVING, CURB & GUTTER PARALLEL PARKING, ANGULAR PARKING, CROSSWALKS & SIDEWALKS DETAILS IN ACCORDANCE WITH STREET LAYOUT SHEET #3. FOR SPECIFIC REFERENCE OF ADDITIONAL STREET SECTIONS, SEE CITY OF RIDGELAND THE TOWNSHIP AT COLONY PARK OVERLAY DISTRICT ORDINANCE. STREETS WIDTHS VARY FROM THOSE SHOWN ON THE TYPICAL SECTIONS TO ACCOMMODATE PARKING AS SHOWN ON THE STREET LAYOUT.

OVERLAY DISTRICT ORDINANCE STREET SECTION:

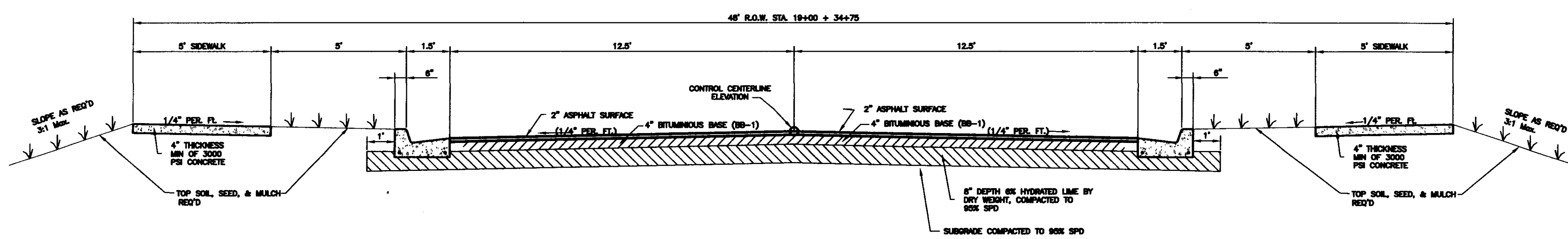
- STREET SECTION A
- STREET SECTION B
- STREET SECTION C
- STREET SECTION D
- STREET SECTION E
- STREET SECTION F
- STREET SECTION G
- STREET SECTION H
- STREET SECTION I
- STREET SECTION J
- STREET SECTION K
- STREET SECTION L
- STREET SECTION M
- STREET SECTION N
- STREET SECTION O

TYPICAL STREET SECTION:

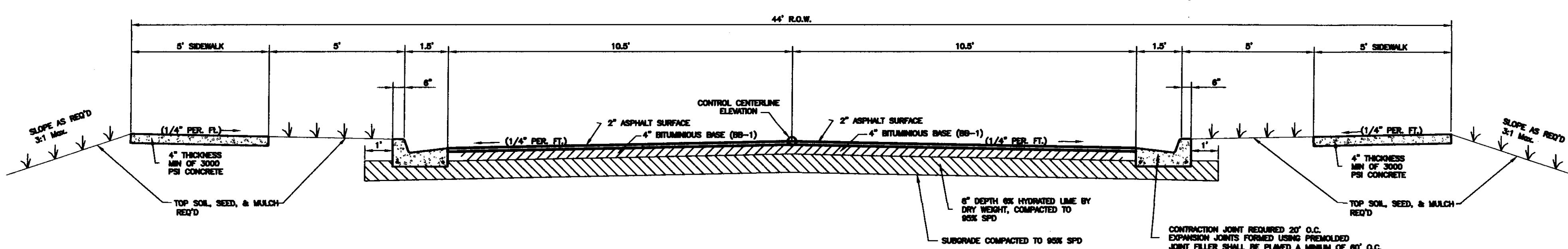
- N/A
- N/A
- N/A
- N/A
- N/A
- N/A
- TYPICAL STREET SECTION 3
- N/A
- TYPICAL STREET SECTION 1 & 2
- N/A
- TYPICAL STREET SECTION 4
- N/A
- N/A
- N/A
- N/A



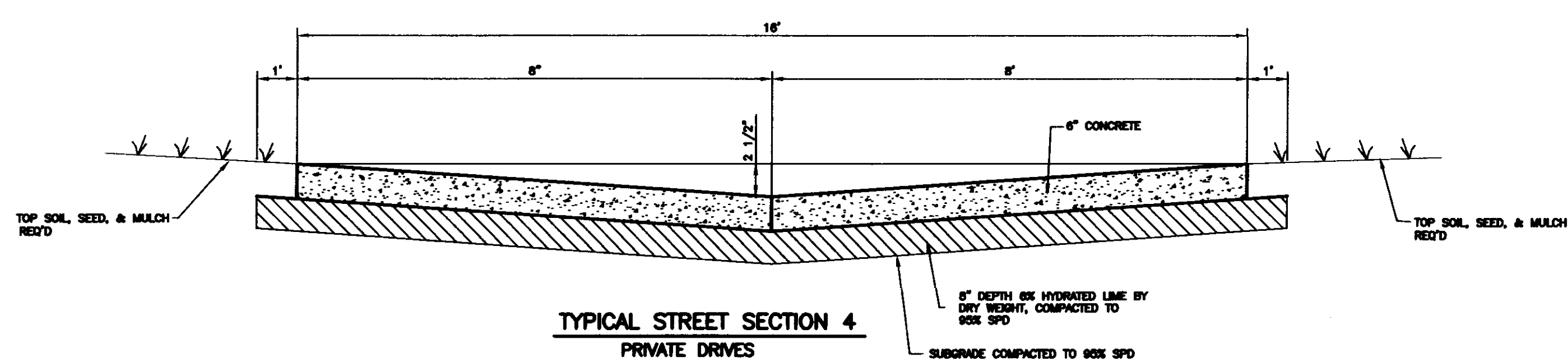
TYPICAL STREET SECTION 1
NORTHLAKE AVE STA. 10+00 - 19+00
NTS



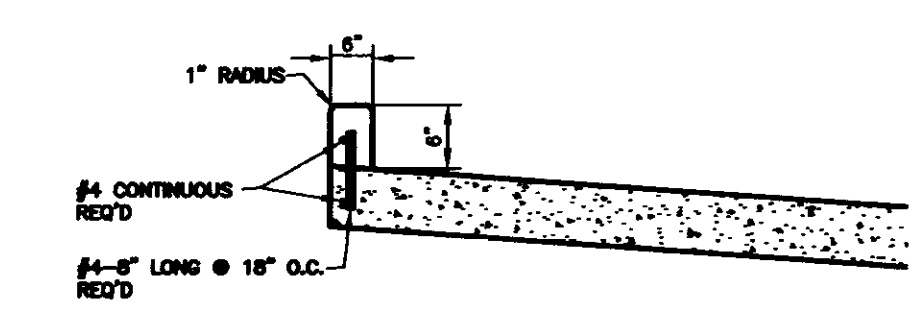
TYPICAL STREET SECTION 2
NORTHLAKE AVE STA. 19+00 - 33+28, HARPER STREET, EASTPARK STREET
NTS



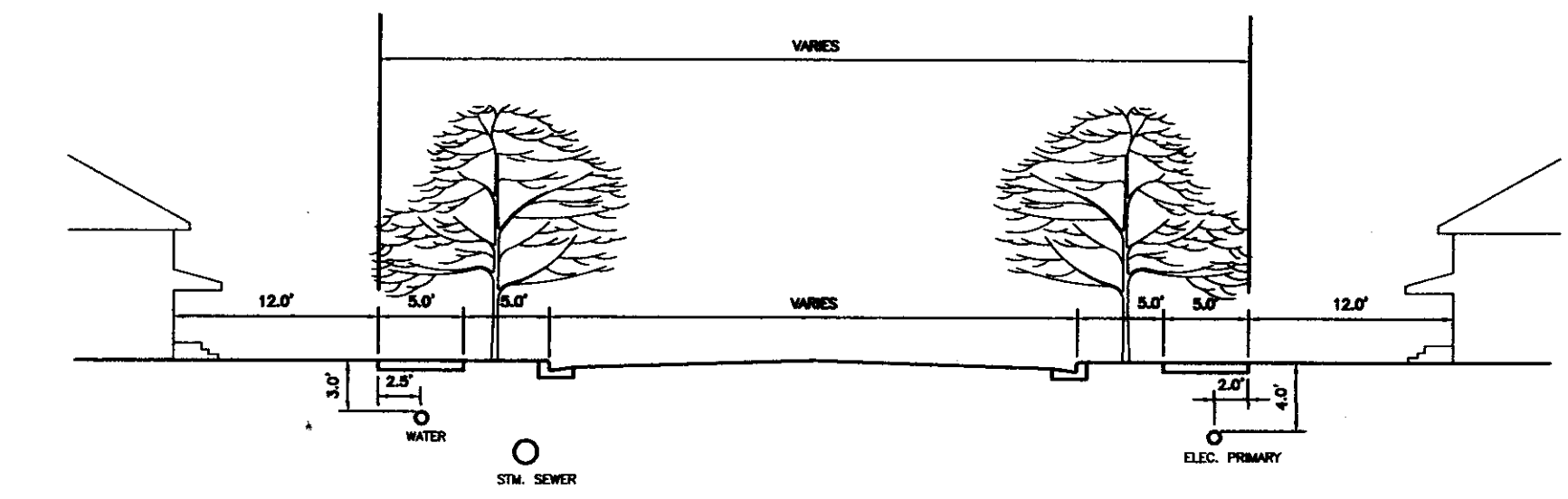
TYPICAL STREET SECTION 3
COMMONS PLACE, NORTHLAKE AVE. 33+28 - 36+33
NTS



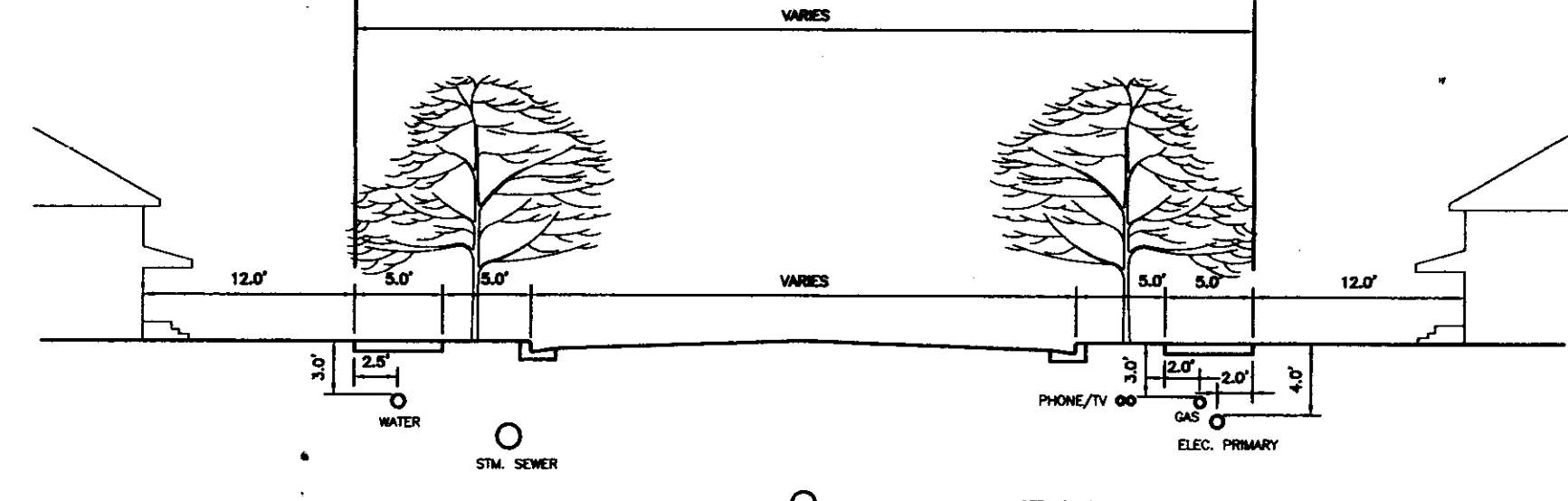
TYPICAL STREET SECTION 4
PRIVATE DRIVES
NTS



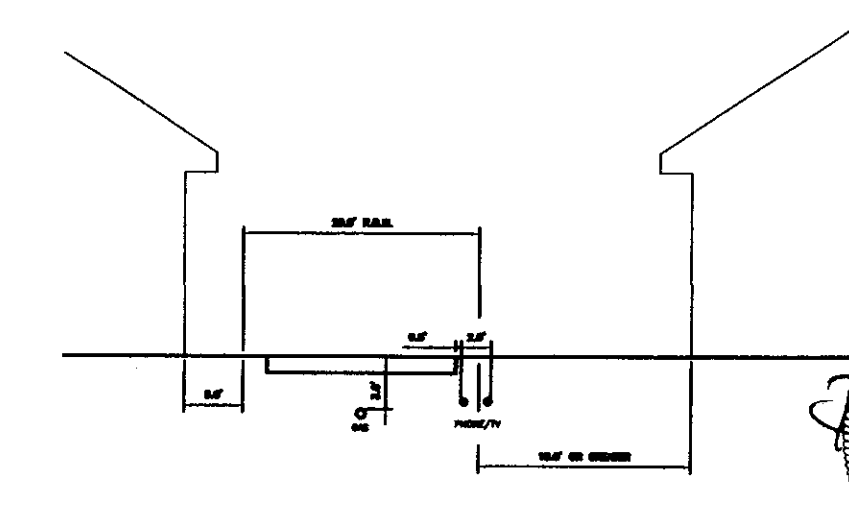
TYPICAL HEADER CURB SECTION
PRIVATE DRIVES (ONLY WHERE ISLAND ARE PRESENT)
NTS



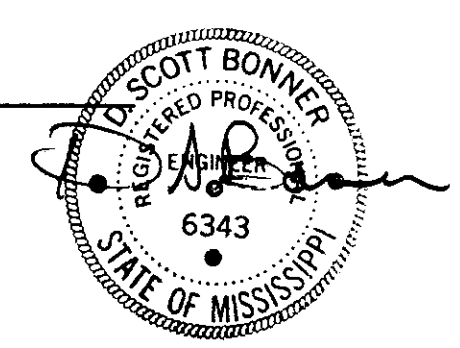
TYPICAL UTILITIES LOCATION STREET W/PRIVATE ENTRANCE DRIVES



TYPICAL UTILITIES LOCATION STREET W/O PRIVATE ENTRANCE DRIVES



TYPICAL UTILITIES LOCATION PRIVATE ENTRANCE DRIVES



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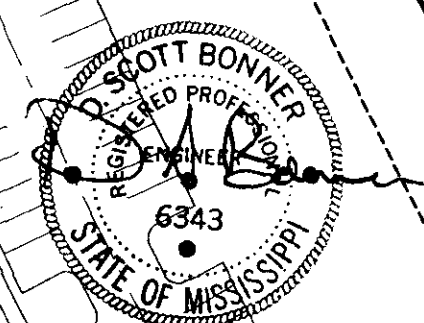
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THE TOWNSHIP AT COLONY PARK
RIDGELAND, MISSISSIPPI

REVISIONS		
NO.	DATE	BY
1		
2		
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4		
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6		

SCALE	NO SCALE
DATE	
APPROVED BY	D.S.B.
DRAWN BY	A.U.J.
CHECKED BY	D.S.B.
TRACED BY	

SHEET TITLE	
GENERAL NOTES, AND TYPICAL SECTIONS DETAILS	
FILE NAME	SHEET NO. 2



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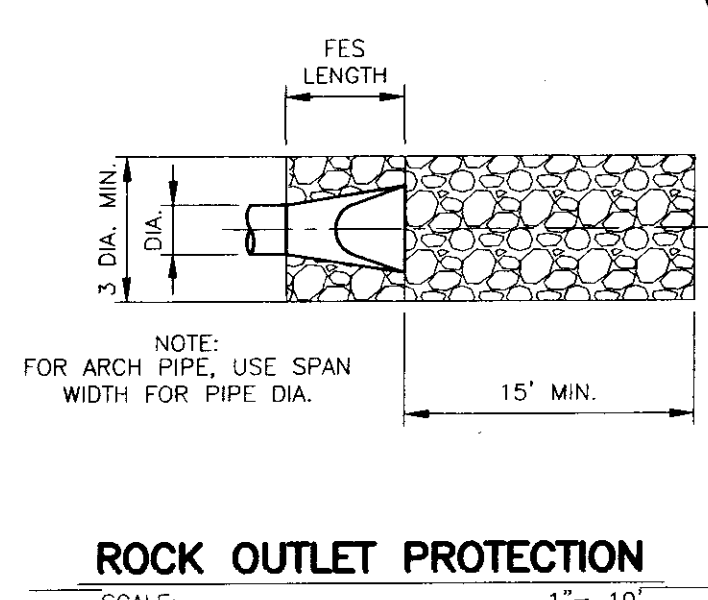
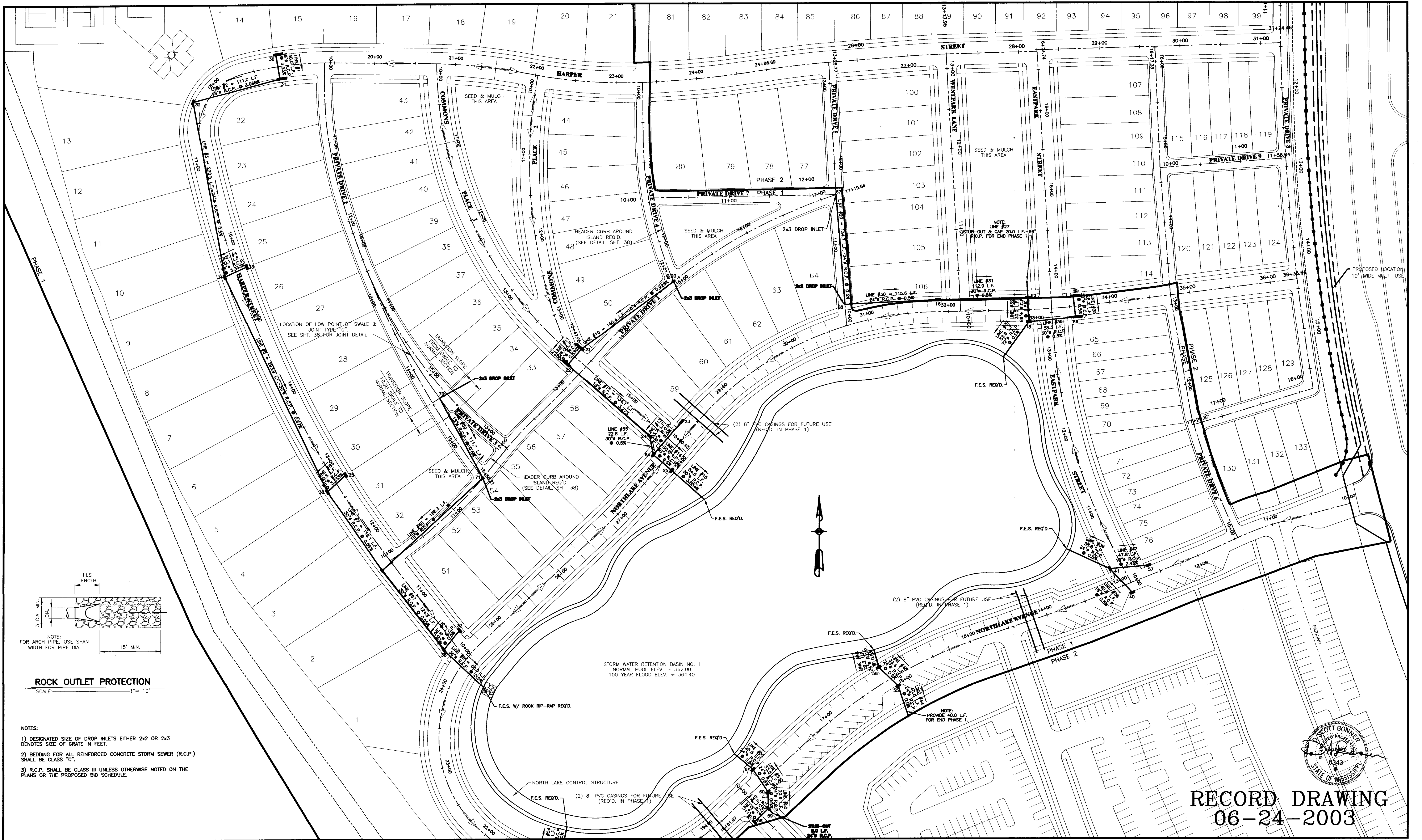
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RIDGELAND, MISSISSIPPI

REVISIONS		
NO.	DATE	BY
1	10-10-02	AJJ
2	06-24-02	AJJ
3		
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5		
6		

SCALE: 1" = 60'
DATE: 07-10-02
APPROVED BY: DSB
DRAWN BY: AUJ/KSP
CHECKED BY: DSB

SHEET TITLE:
STREET LAYOUT
FILE NAME:
SHEET NO: **3**



- NOTES:
- 1) DESIGNATED SIZE OF DROP INLETS EITHER 2x2 OR 2x3 DENOTES SIZE OF GRATE IN FEET.
 - 2) BEDDING FOR ALL REINFORCED CONCRETE STORM SEWER (R.C.P.) SHALL BE CLASS "C".
 - 3) R.C.P. SHALL BE CLASS III UNLESS OTHERWISE NOTED ON THE PLANS OR THE PROPOSED BID SCHEDULE.

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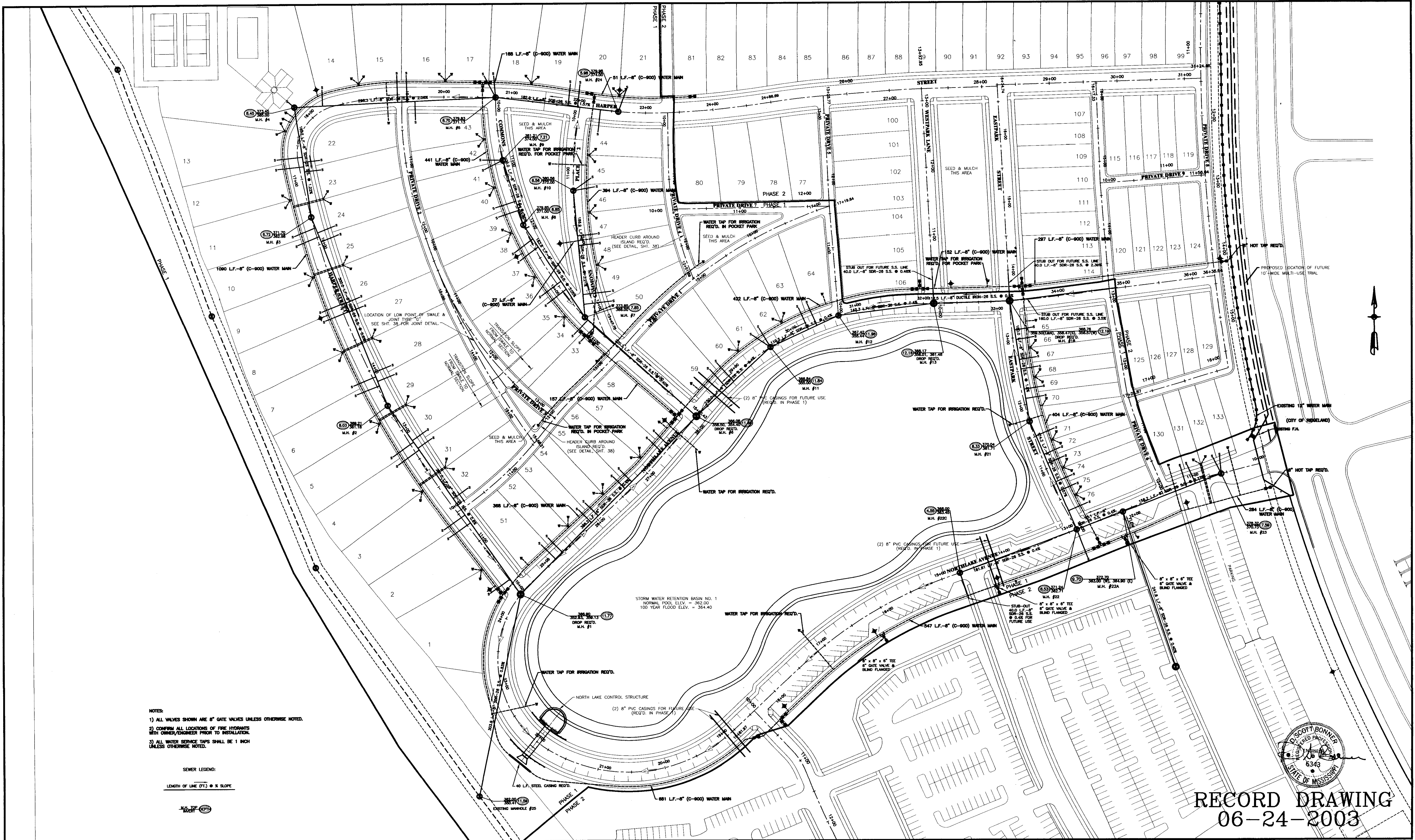
THE TOWNSHIP AT COLONY PARK

RIDGELAND, MISSISSIPPI

REVISIONS		
NO.	DATE	BY
1	10-10-02	AUJ
2	06-24-02	AUJ
3		
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SCALE: 1" = 50'
DATE: 07-10-02
APPROVED BY: DSB
DRAWN BY: AUJ/KSP
CHECKED BY: DSB

SHEET TITLE:
STORM SEWER LAYOUT
FILE NAME:
SHEET NO: **4**



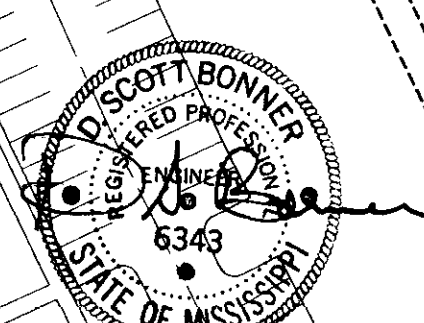
- NOTES:
- 1) ALL VALVES SHOWN ARE 8" GATE VALVES UNLESS OTHERWISE NOTED.
 - 2) CONFIRM ALL LOCATIONS OF FIRE HYDRANTS WITH OWNER/ENGINEER PRIOR TO INSTALLATION.
 - 3) ALL WATER SERVICE TAPS SHALL BE 1 INCH UNLESS OTHERWISE NOTED.

SEWER LEGEND:

LENGTH OF LINE (FT) @ % SLOPE

M.H. TAP

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2	06-24-02	AUJ
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SCALE: 1" = 60'
DATE: 07-10-02
APPROVED BY: DSB
DRAWN BY: AUJ/KSP
CHECKED BY: DSB

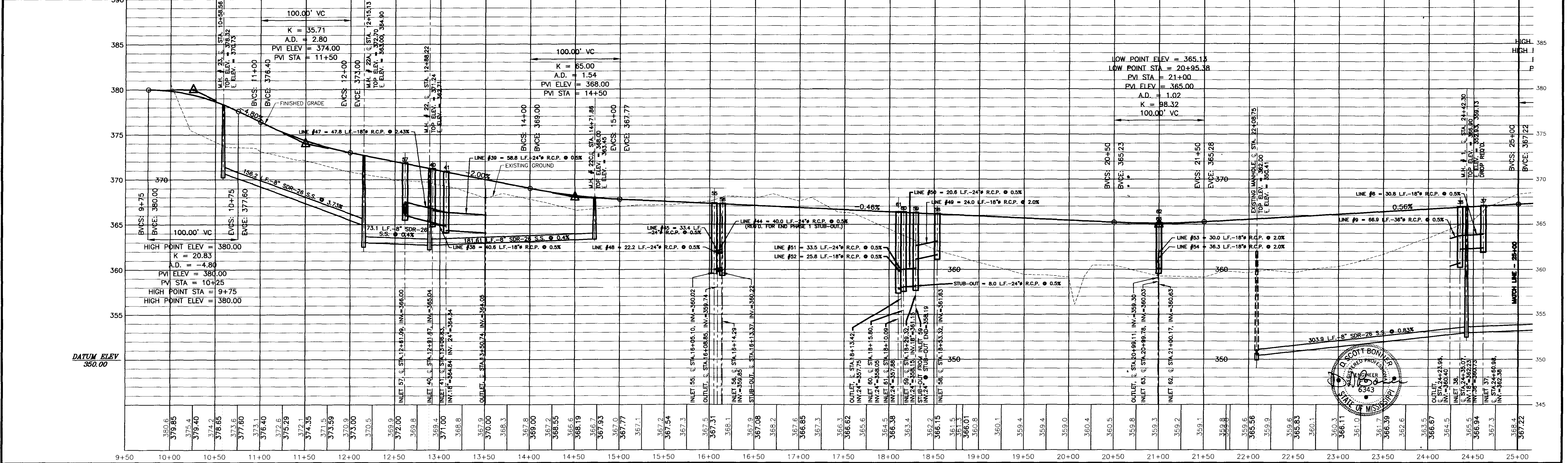
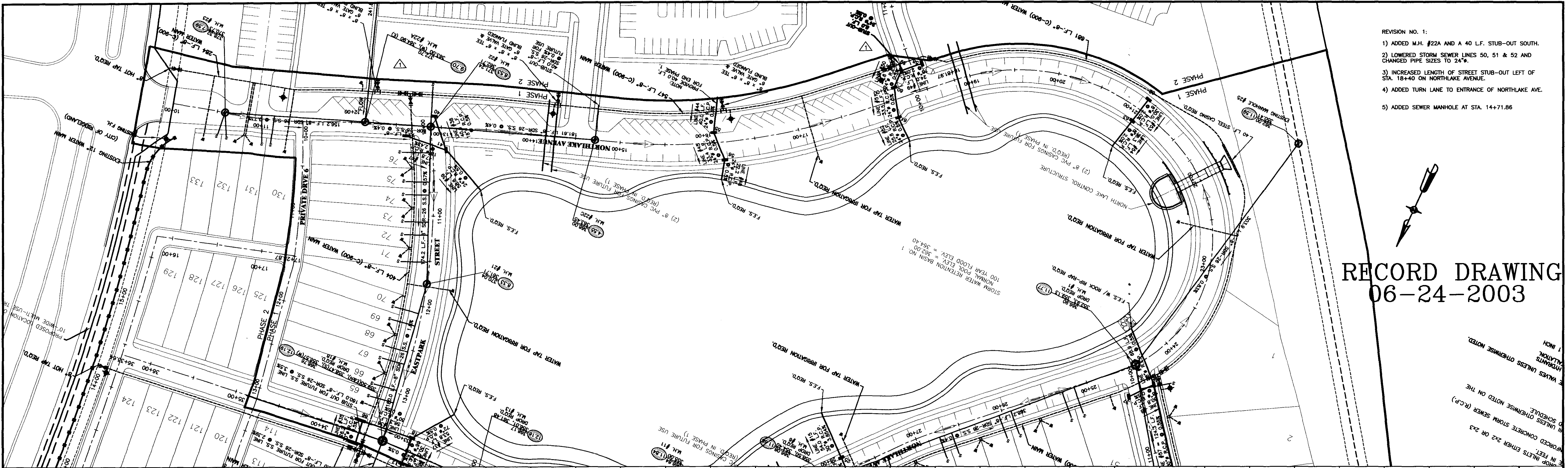
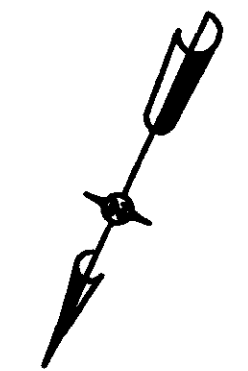
SHEET TITLE: **WATER & SANITARY SEWER LAYOUT**

FILE NAME: \\ms01\proj\06-24-02\06-24-02-01.dwg

SHEET NO: **5**

- REVISION NO. 1:
- 1) ADDED M.H. #22A AND A 40 L.F. STUB-OUT SOUTH.
 - 2) LOWERED STORM SEWER LINES 50, 51 & 52 AND CHANGED PIPE SIZES TO 24".
 - 3) INCREASED LENGTH OF STREET STUB-OUT LEFT OF STA. 18+40 ON NORTHLAKE AVENUE.
 - 4) ADDED TURN LANE TO ENTRANCE OF NORTHLAKE AVE.
 - 5) ADDED SEWER MANHOLE AT STA. 14+71.86

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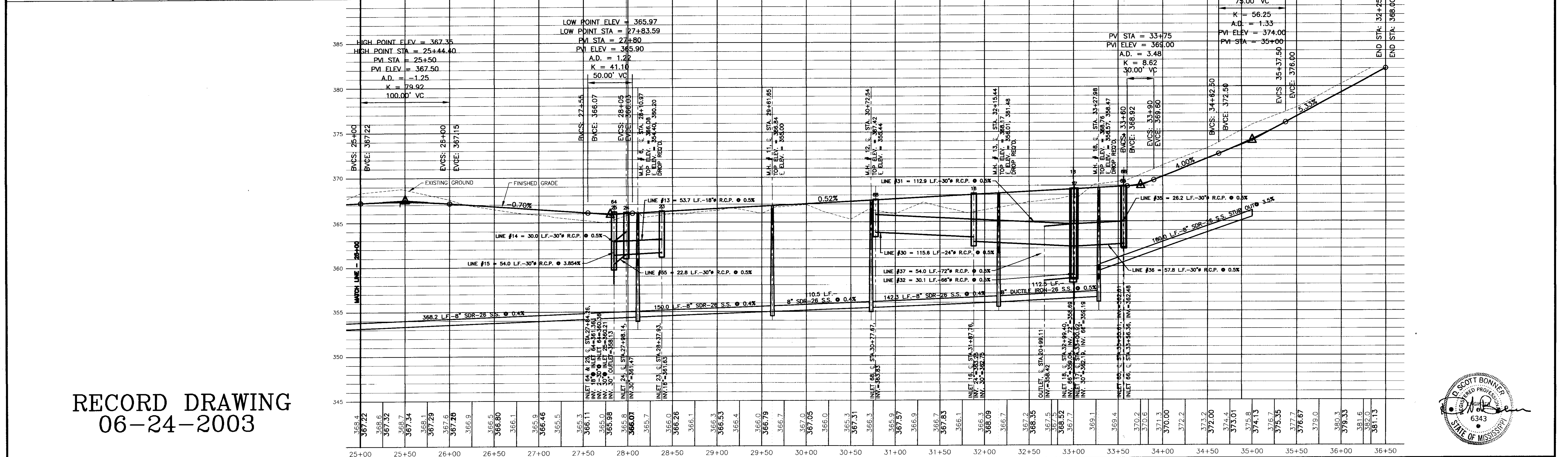
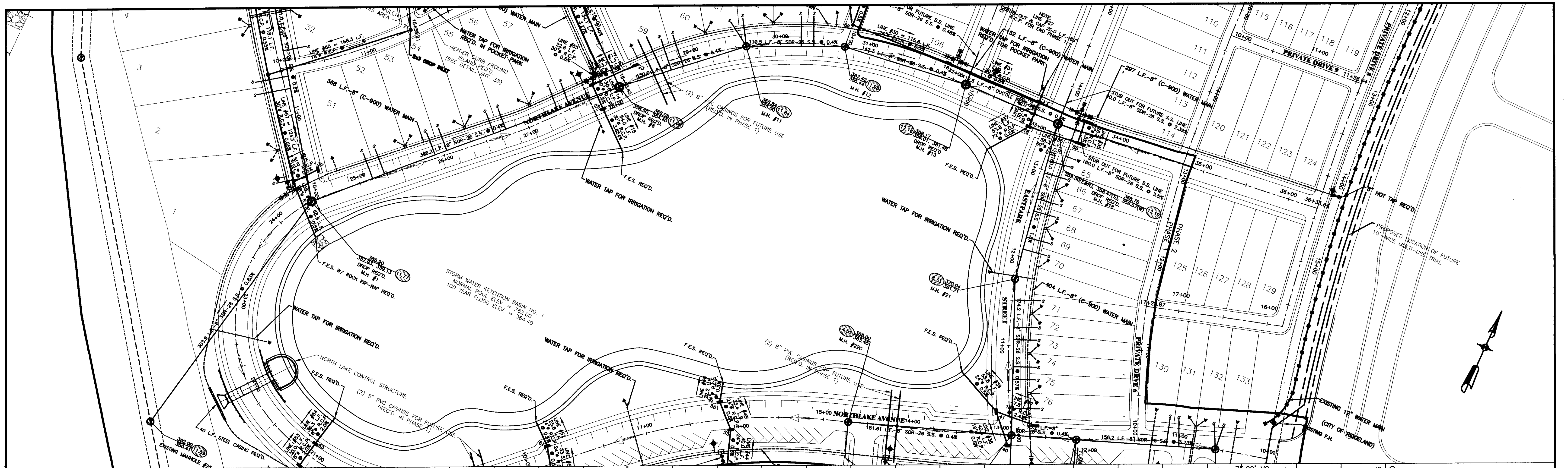
RIDGELAND, MISSISSIPPI

REVISIONS		
NO.	DATE	BY
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SCALE: 1" = 50'
DATE: 07-11-02
APPROVED BY: DSB
DRAWN BY: AUJ/KSP
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SHEET TITLE:
PLAN - PROFILE
NORTHLAKE AVENUE
STA. 10+00 TO STA. 25+00

FILE NAME:
 SHEET NO: **6**



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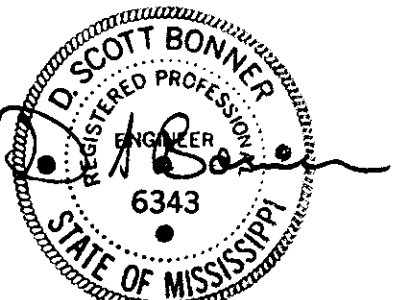
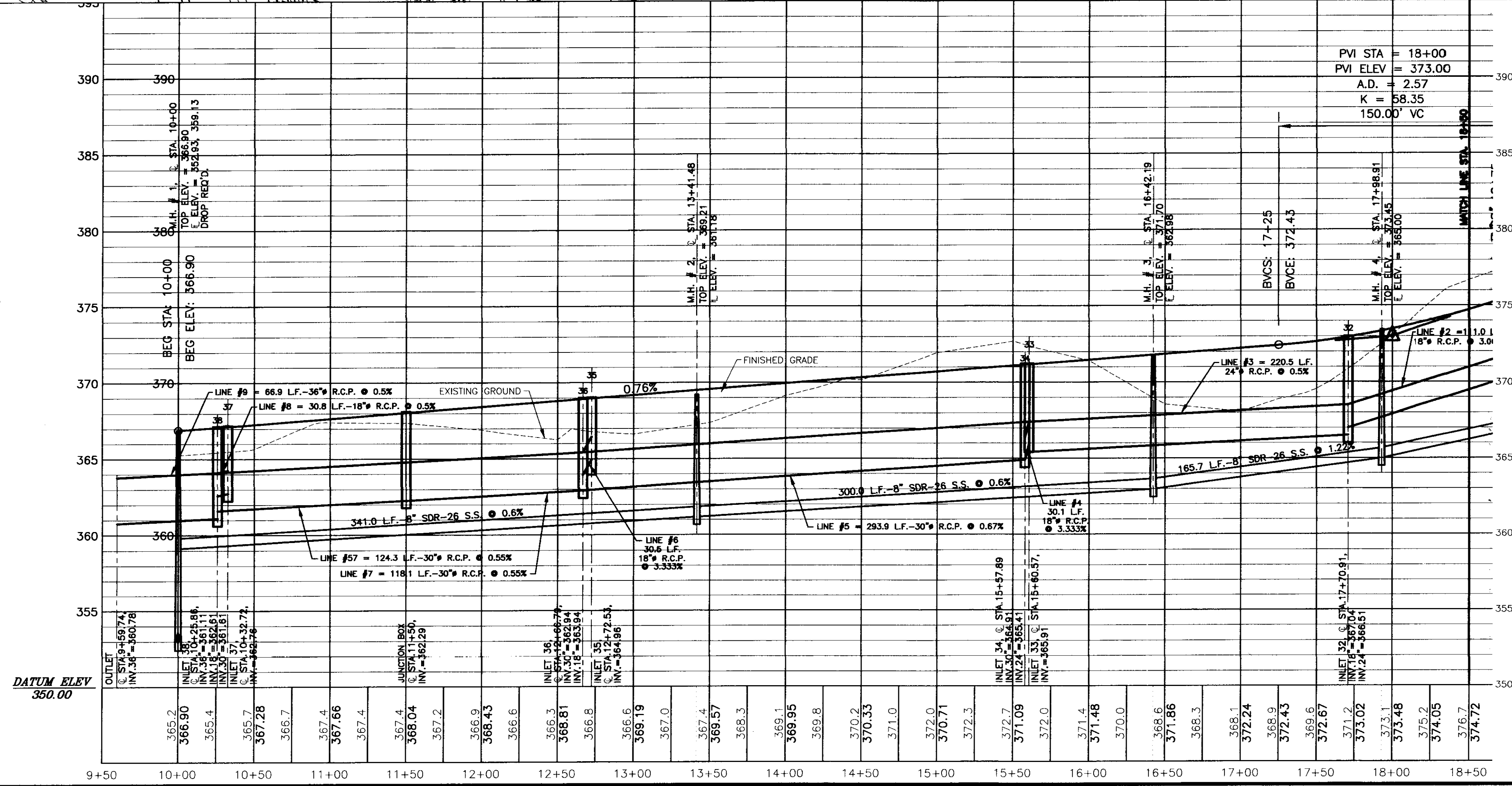
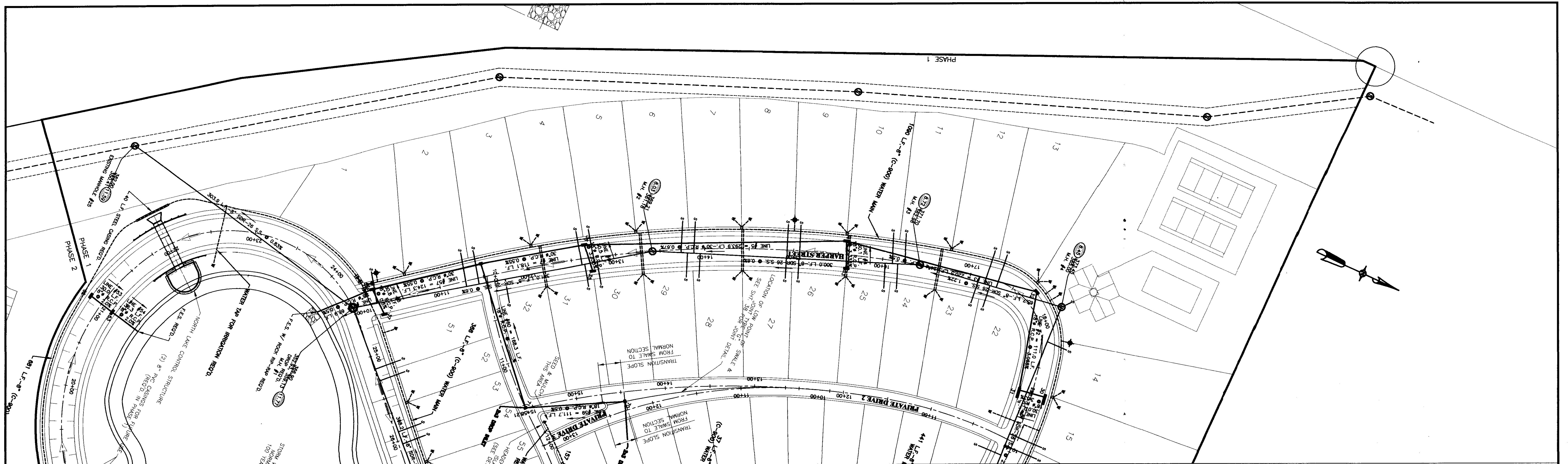
RIDGELAND, MISSISSIPPI

REVISIONS		
NO.	DATE	BY
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SCALE: 1" = 50'
DATE: 07-11-02
APPROVED BY: DSB
DRAWN BY: AUJ/KSP
CHECKED BY: DSB

SHEET TITLE:
PLAN - PROFILE
NORTHLAKE AVENUE
STA. 25+00 TO STA. 36+00
FILE NAME:
SHEET NO: 7

M:\kerkoth Corp\KC-1 Parcel 3 Phase 1\dwg\0-KC-1 Parcel 3 Phase 1 Base REC DRAW.dwg, Northlake P22, 6/28/2003 8:37:49 AM, Anthony Jones



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06-24-2003

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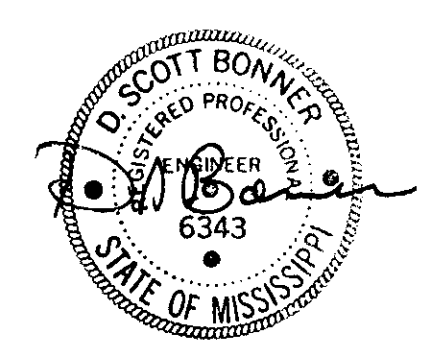
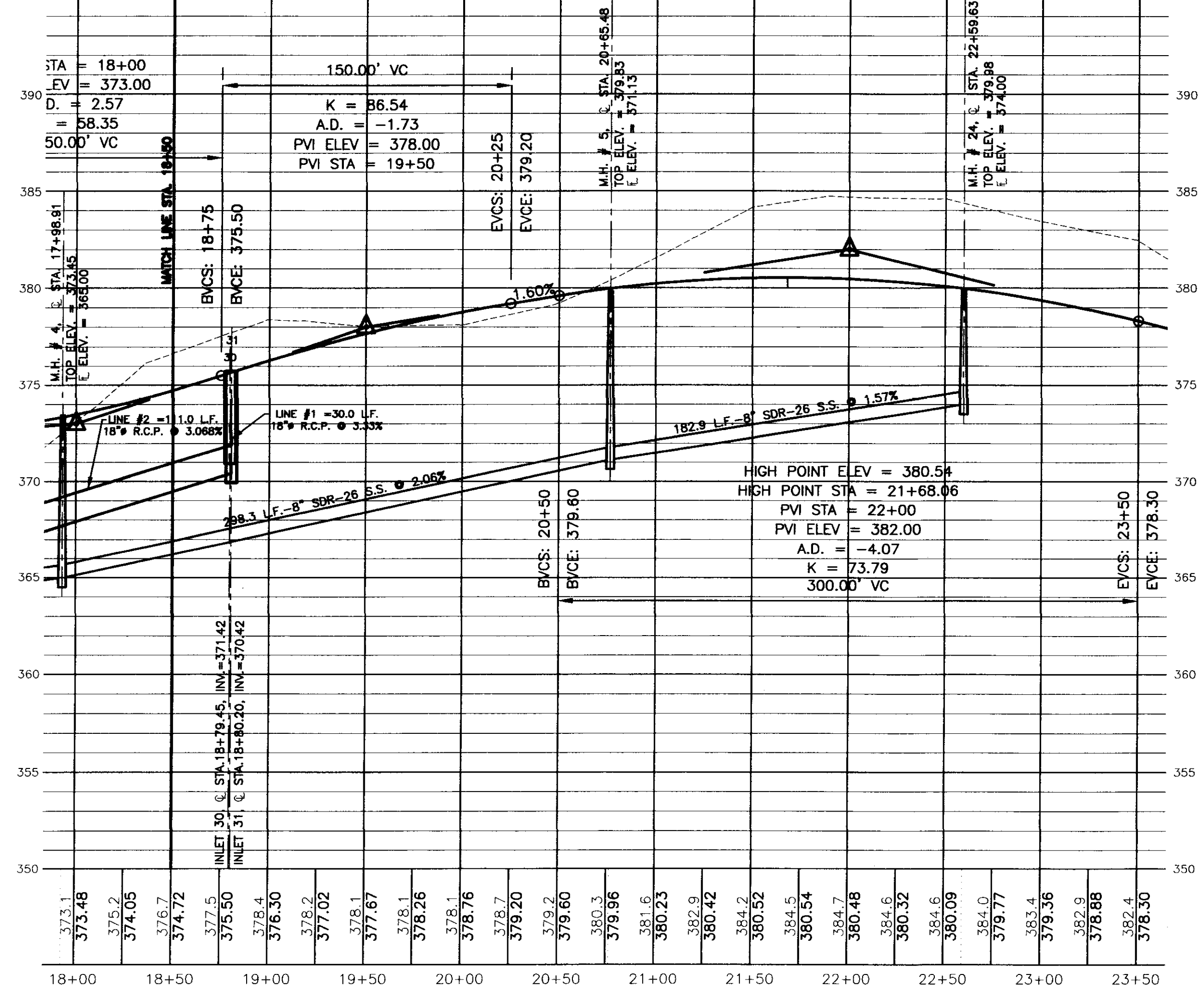
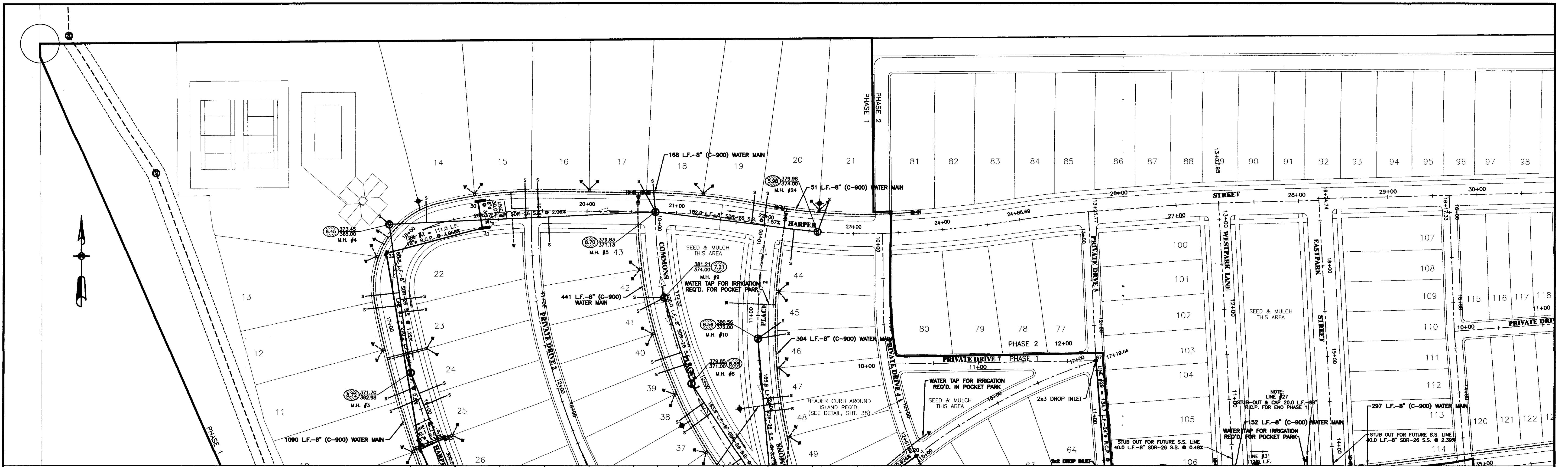
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RIDGELAND, MISSISSIPPI

REVISIONS		
NO.	DATE	BY
1	10/10/02	AJJ
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SCALE: 1" = 50'
DATE: 07-11-02
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DRAWN BY: AUJ/KSP
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SHEET TITLE:
PLAN - PROFILE HARPER STREET
STA. 10+00 TO STA. 18+50
FILE NAME: m\ \ SHEET NO: **8**



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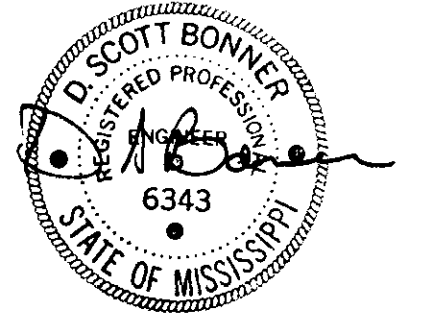
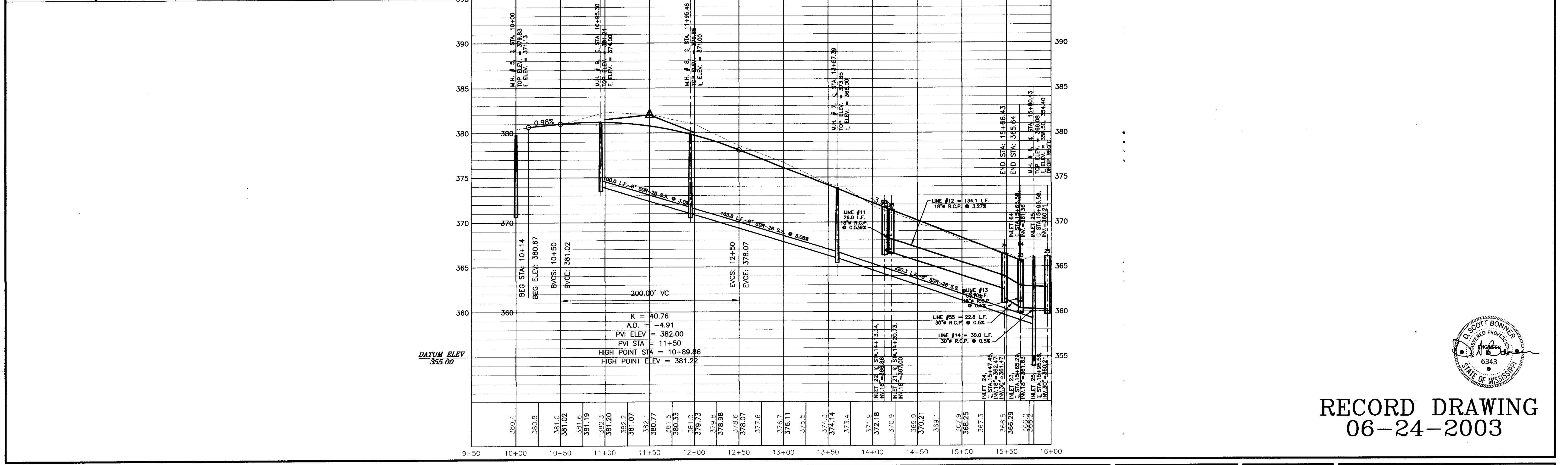
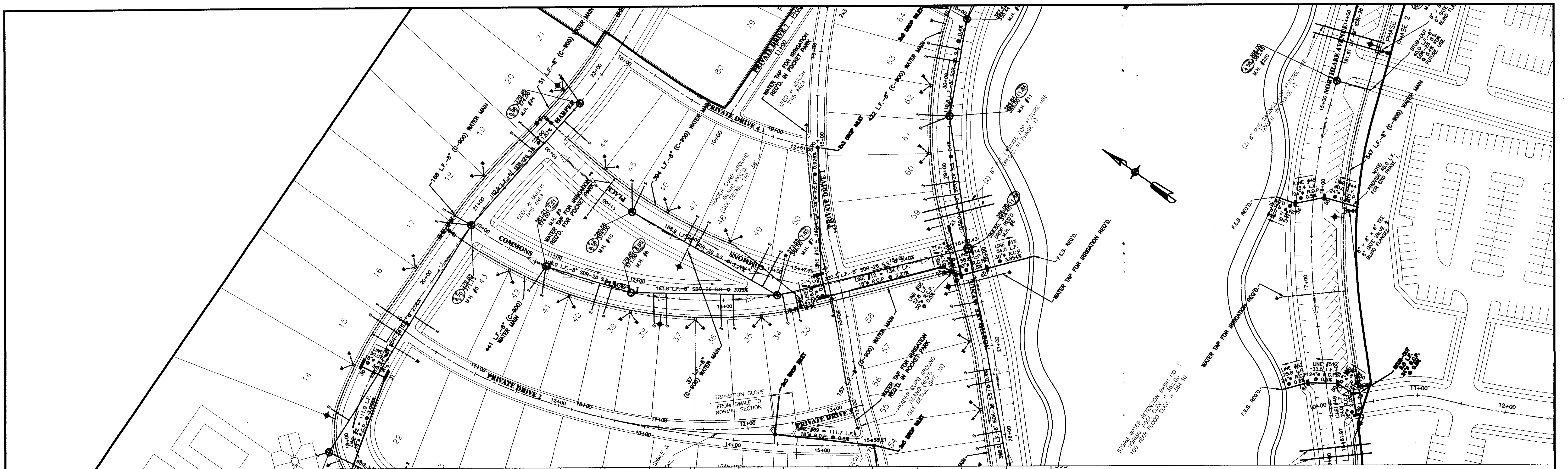
RIDGELAND, MISSISSIPPI

REVISIONS		
NO.	DATE	BY
1	10/10/02	AUJ
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SCALE: 1" = 50'
DATE: 07-11-02
APPROVED BY: DSB
DRAWN BY: AUJ/KSP
CHECKED BY: DSB

SHEET TITLE:
**PLAN - PROFILE
HARPER STREET
STA. 18+50 TO STA. 23+50**

FILE NAME: M:\ SHEET NO: **9**



RECORD DRAWING
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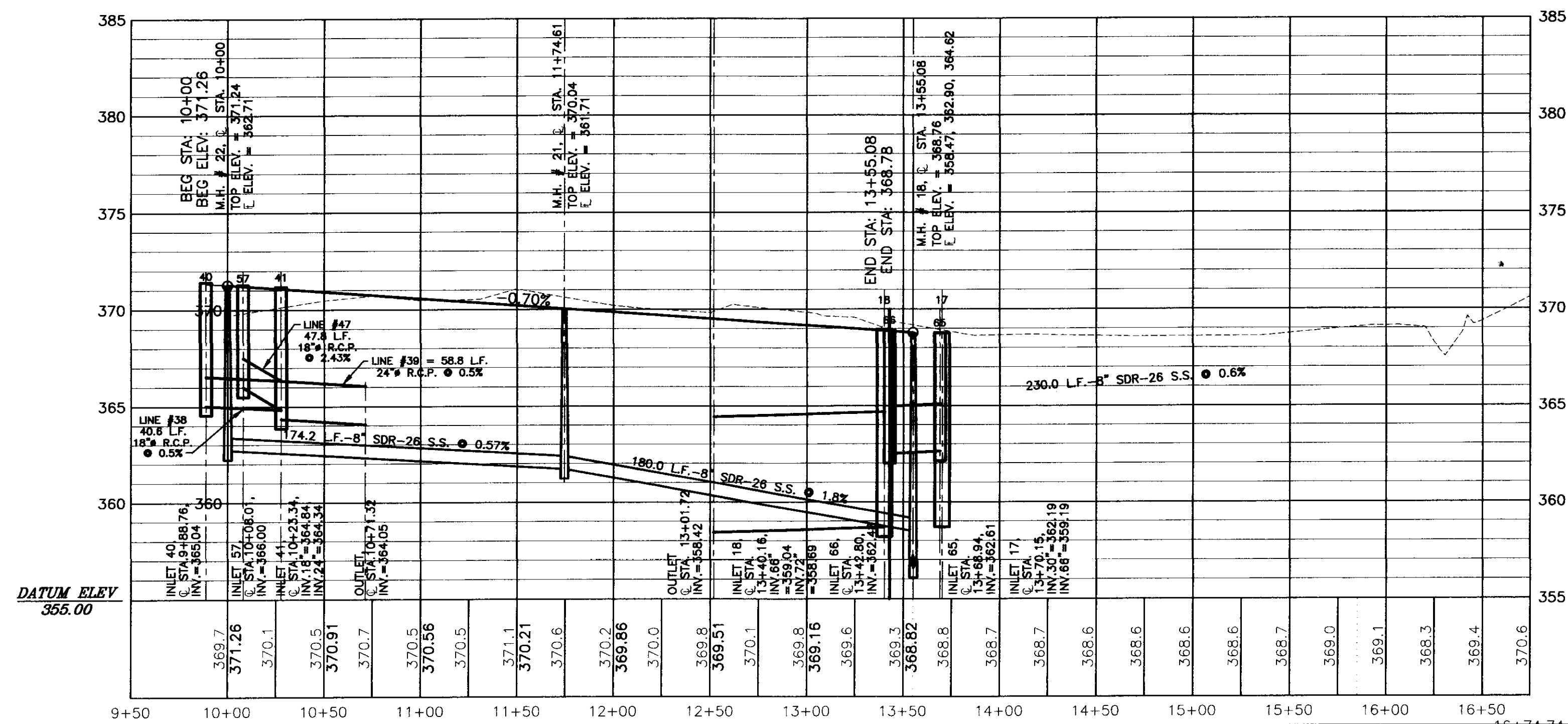
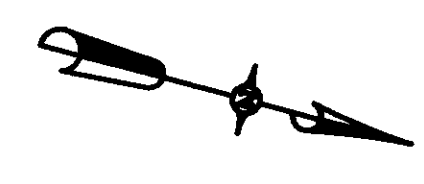
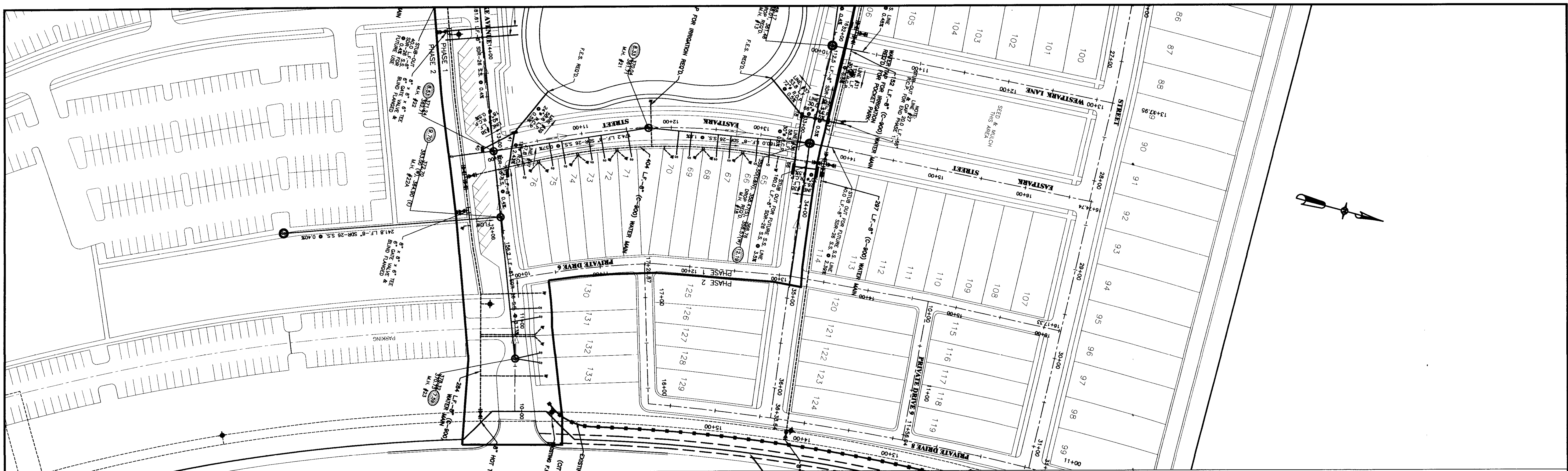
RIDGELAND, MISSISSIPPI

REVISIONS		
NO.	DATE	BY
1	10/10/02	AJJ
2	06/24/03	AJJ
3		
4		
5		
6		

SCALE: 1" = 50'
 DATE: 07-11-02
 APPROVED BY: DSB
 DRAWN BY: AUJ/KSP
 CHECKED BY: DSB

SHEET TITLE:
PLAN - PROFILE
COMMONS PLACE 1
STA. 10+00 TO STA. 15+80.43

FILE NAME:
 SHEET NO: **10**



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REVISIONS		
NO.	DATE	BY
1	10/10/02	AJJ
2		
3		
4		
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6		

SCALE: 1" = 50'
DATE: 07-11-02
APPROVED BY: DSB
DRAWN BY: AUJ/KSP
CHECKED BY: DSB

SHEET TITLE:
PLAN - PROFILE
EASTPARK STREET
STA. 10+00 TO STA. 15+80.43

FILE NAME: M:\
SHEET NO: **12**

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THE TOWNSHIP AT COLONY PARK

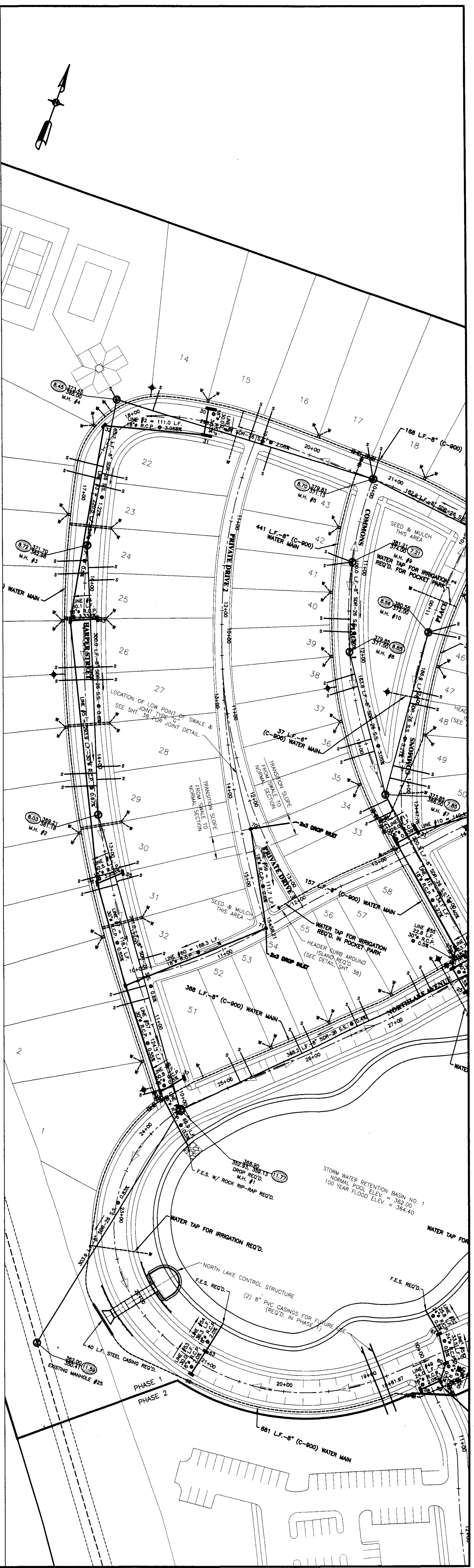
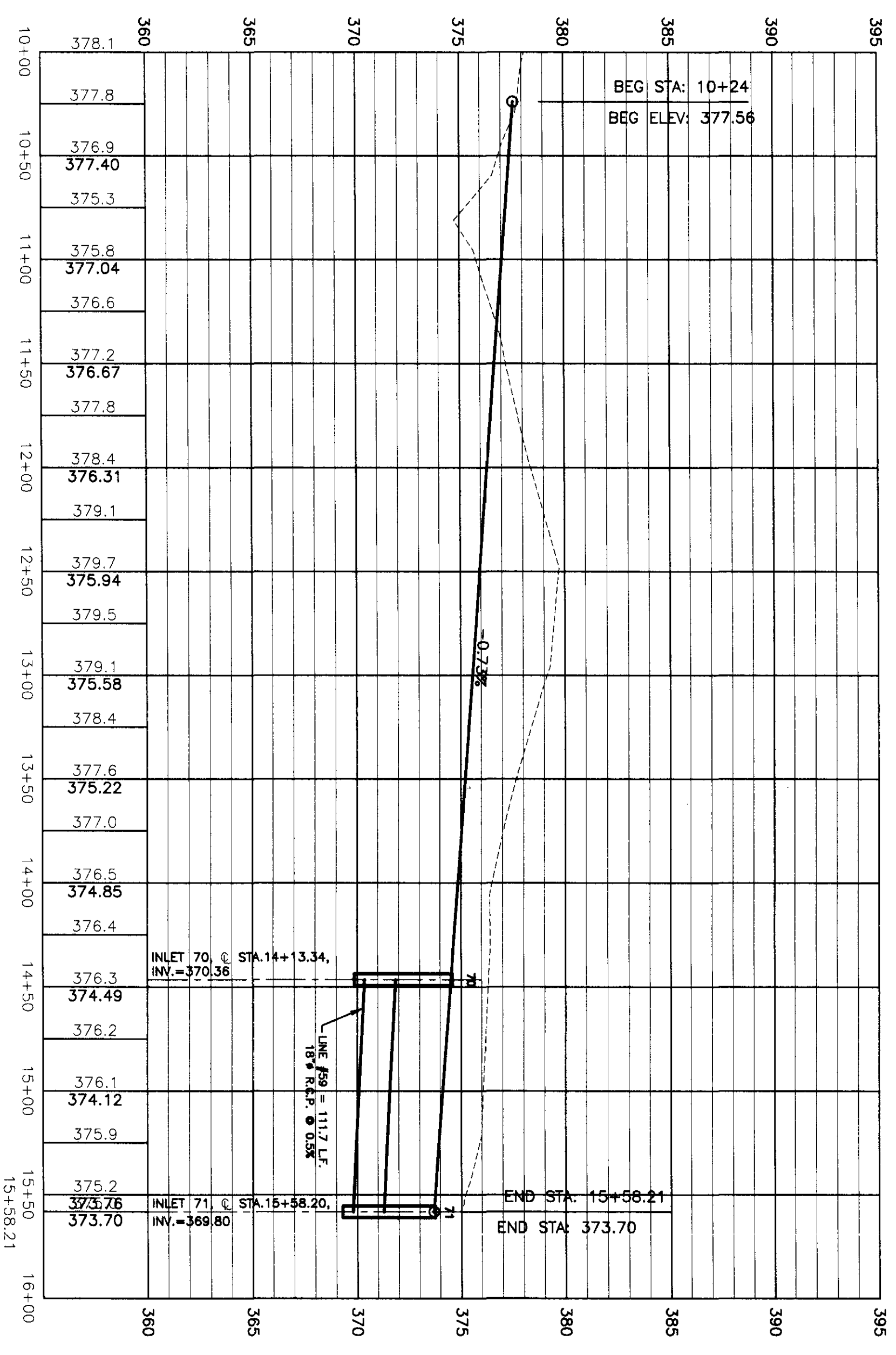
RIDGELAND, MISSISSIPPI

REVISIONS		
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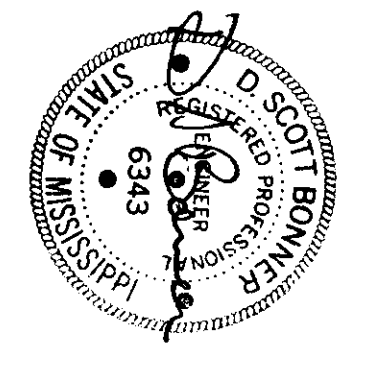
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DATE:	07-24-02
APPROVED BY:	DSB
DRAWN BY:	AJU/KSP
CHECKED BY:	DSB

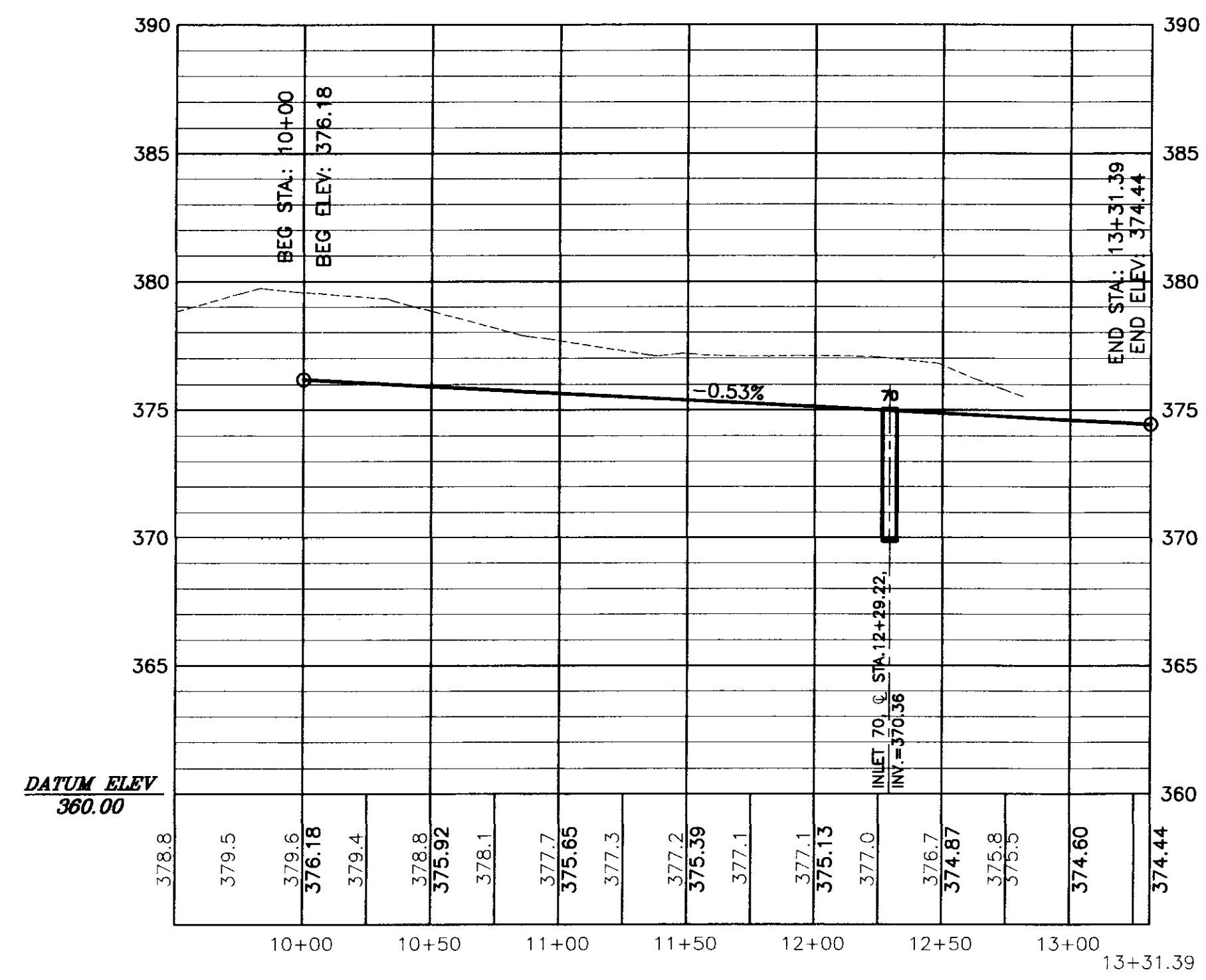
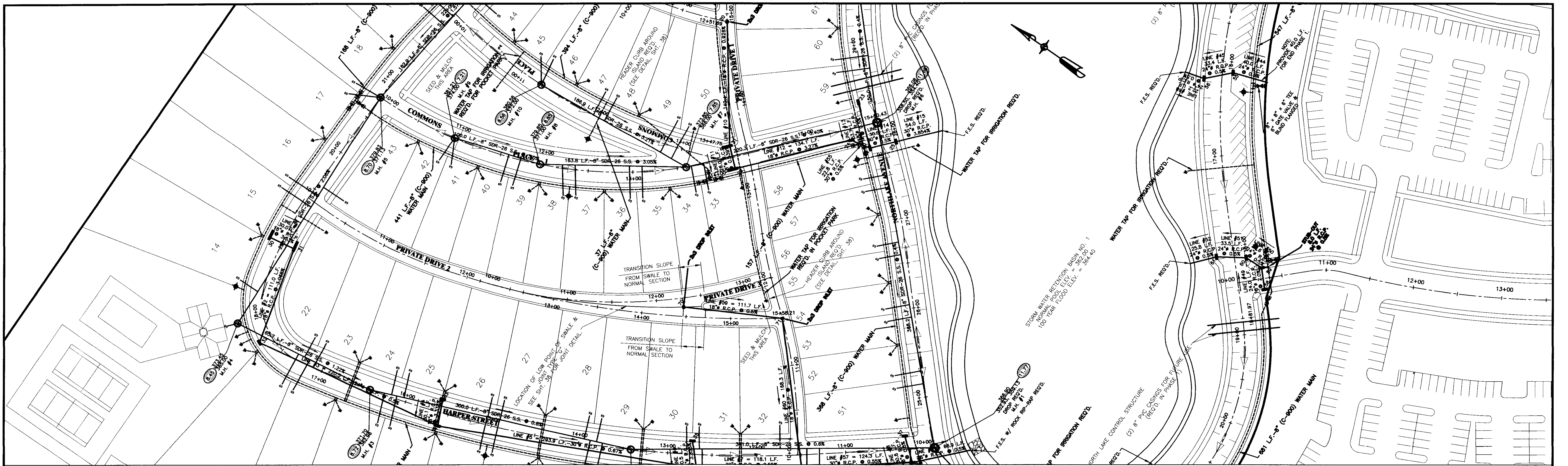
SHEET TITLE:
PLAN - PROFILE
PRIVATE DRIVE 2

FILE NAME: _____
 SHEET NO.: **14**



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06-24-2003

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RIDGELAND, MISSISSIPPI

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SCALE: 1" = 50'
DATE: 07-24-02
APPROVED BY: DSB
DRAWN BY: AUJ/KSP
CHECKED BY: DSB

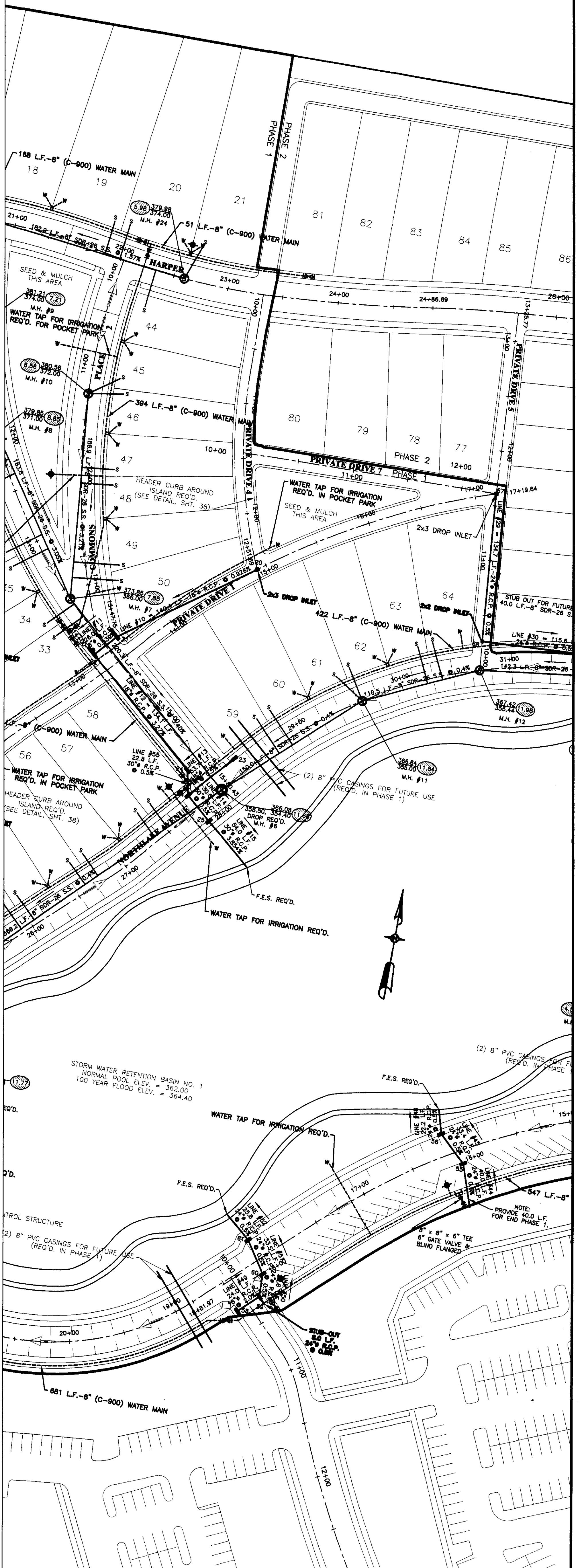
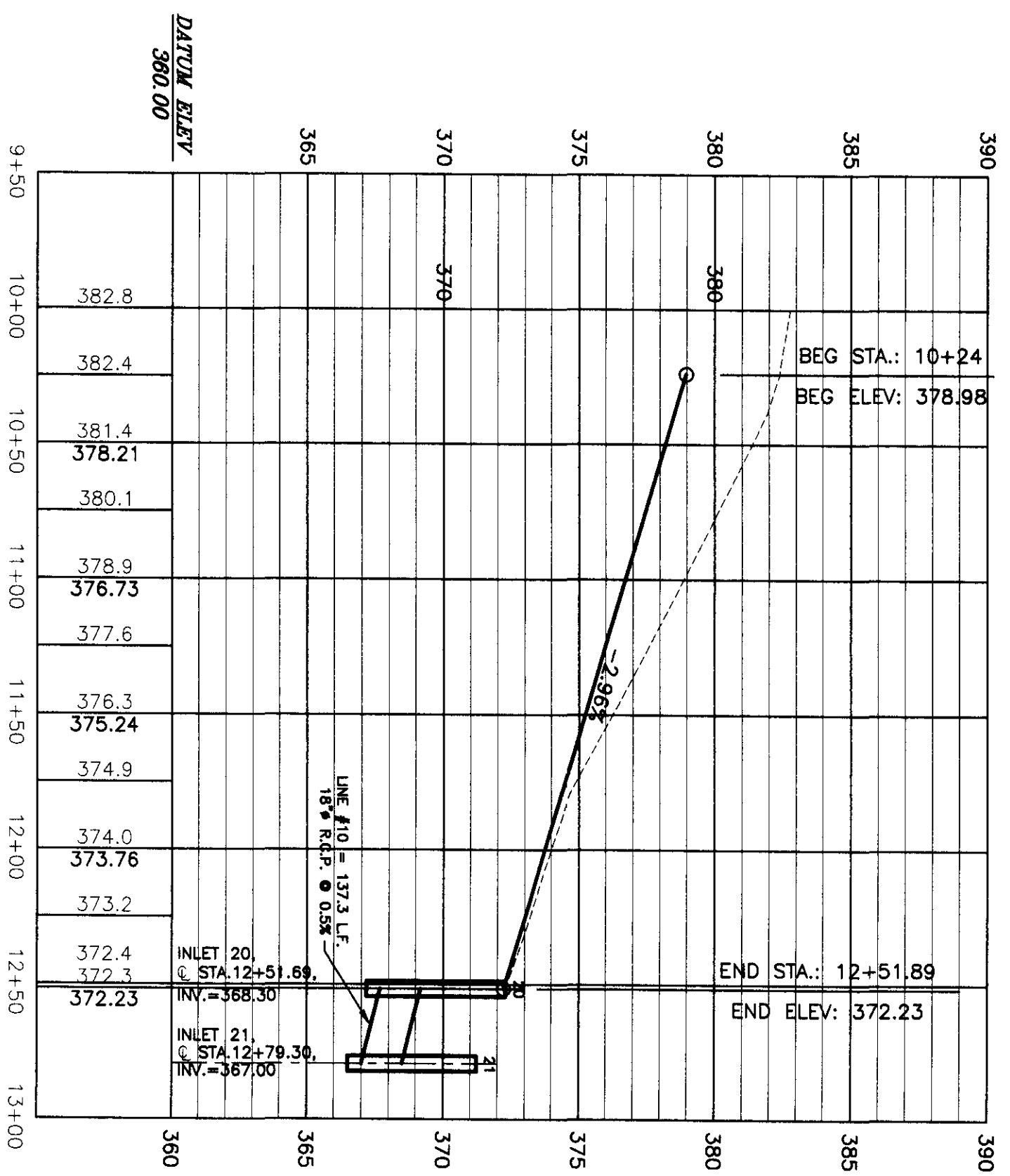
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**PLAN - PROFILE
PRIVATE DRIVE 3**

FILE NAME:
SHEET NO: **15**

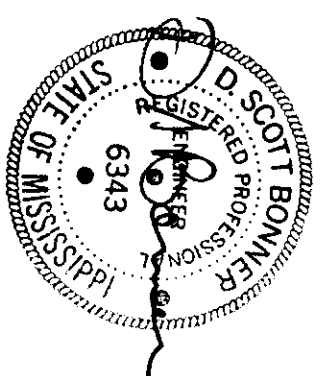
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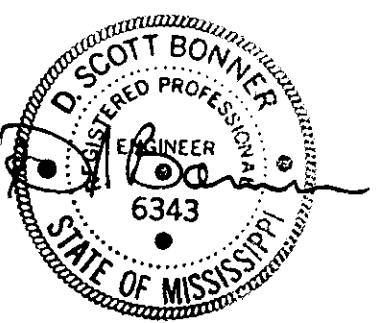
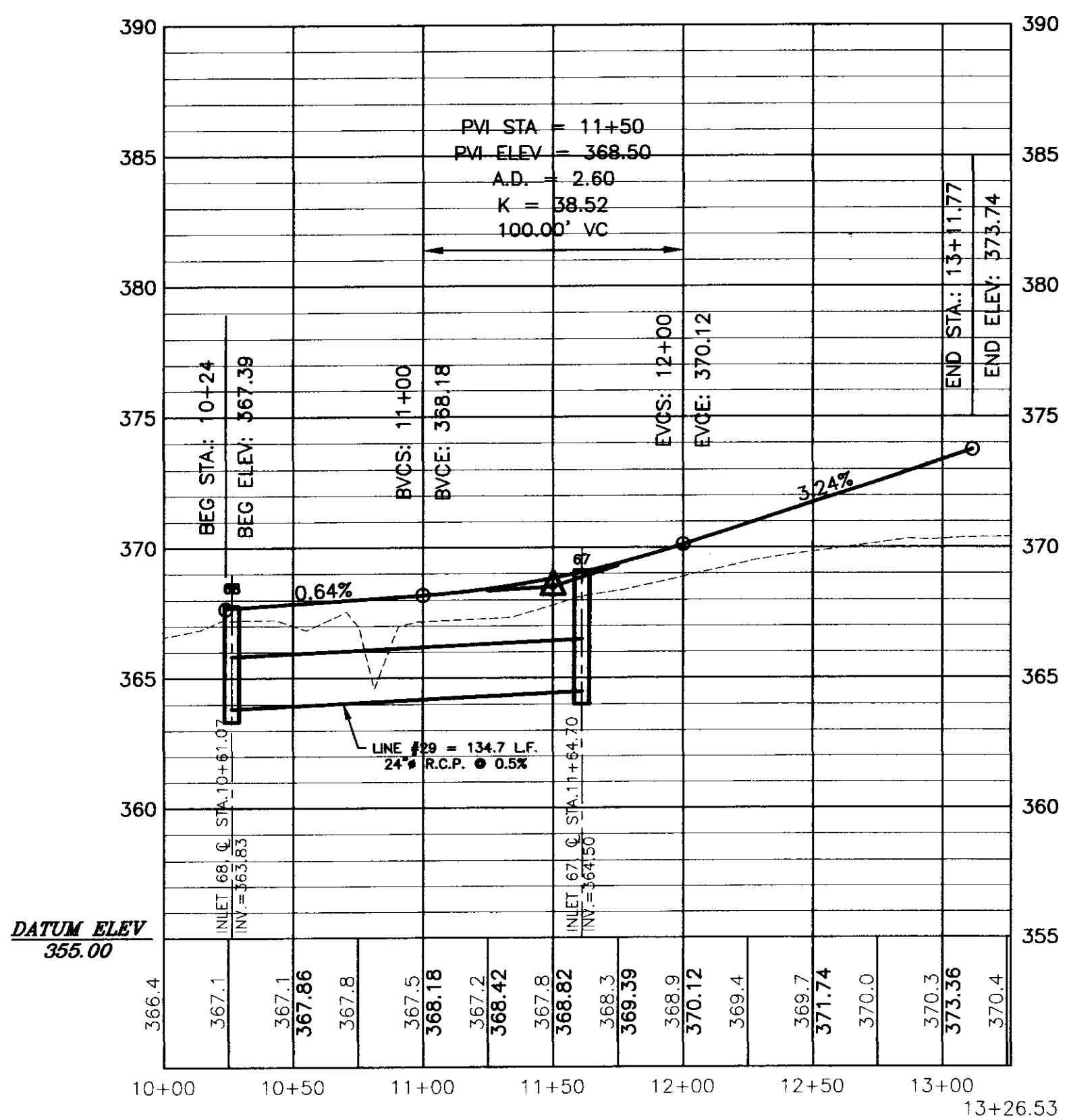
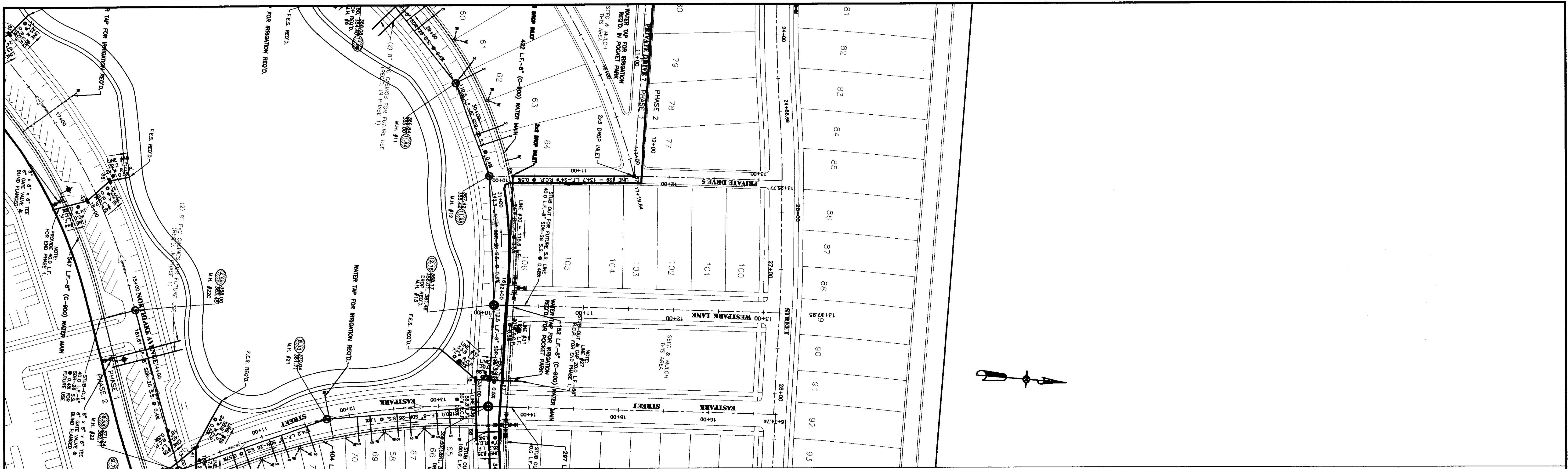
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SCALE:	
1" = 50'	
DATE:	07-24-02
APPROVED BY:	DSB
DRAWN BY:	AUJ/KSP
CHECKED BY:	DSB

SHEET TITLE:
PLAN - PROFILE
PRIVATE DRIVE 4

FILE NAME: _____

SHEET NO: **16**



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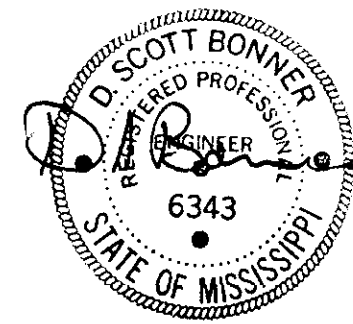
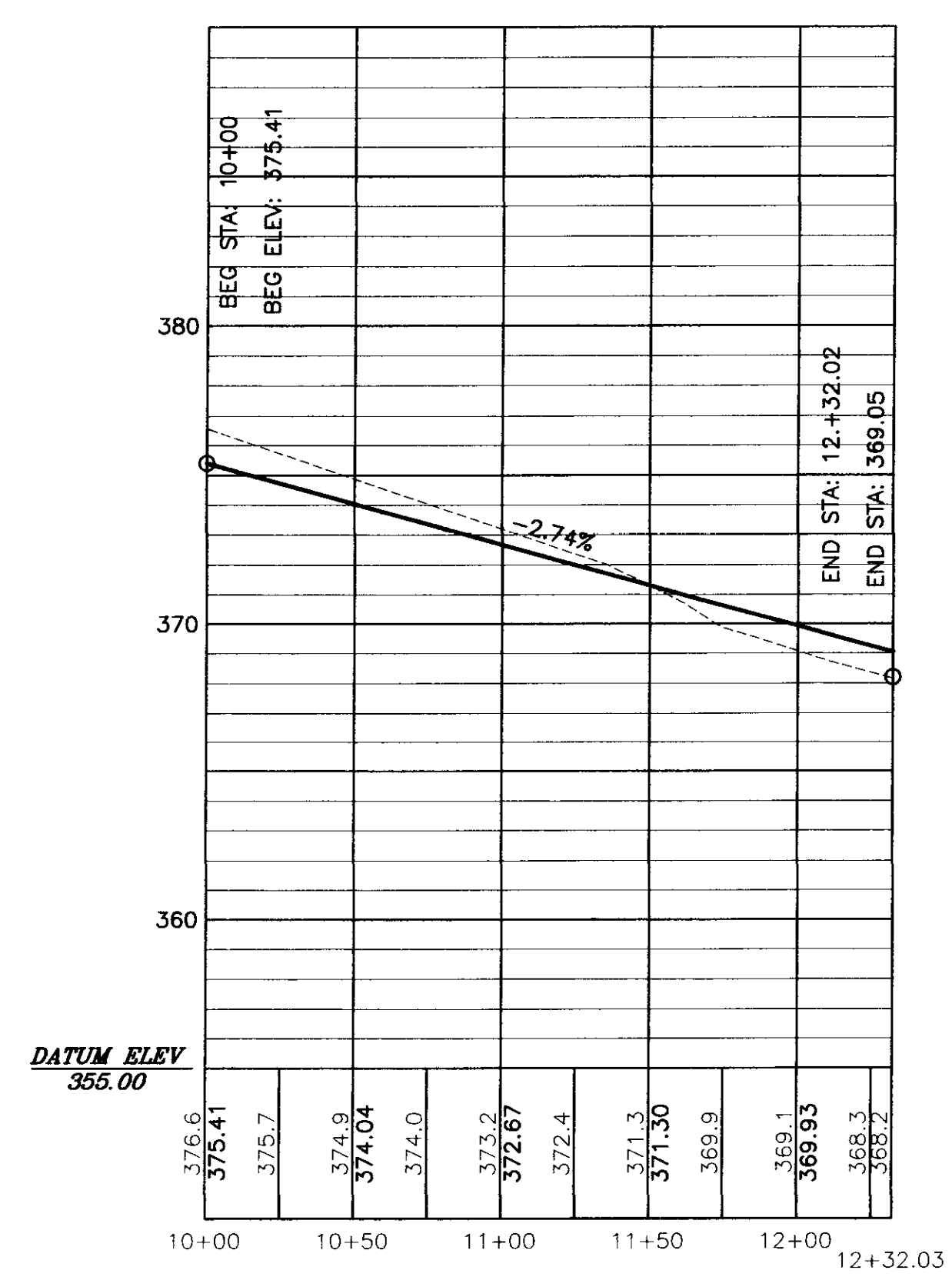
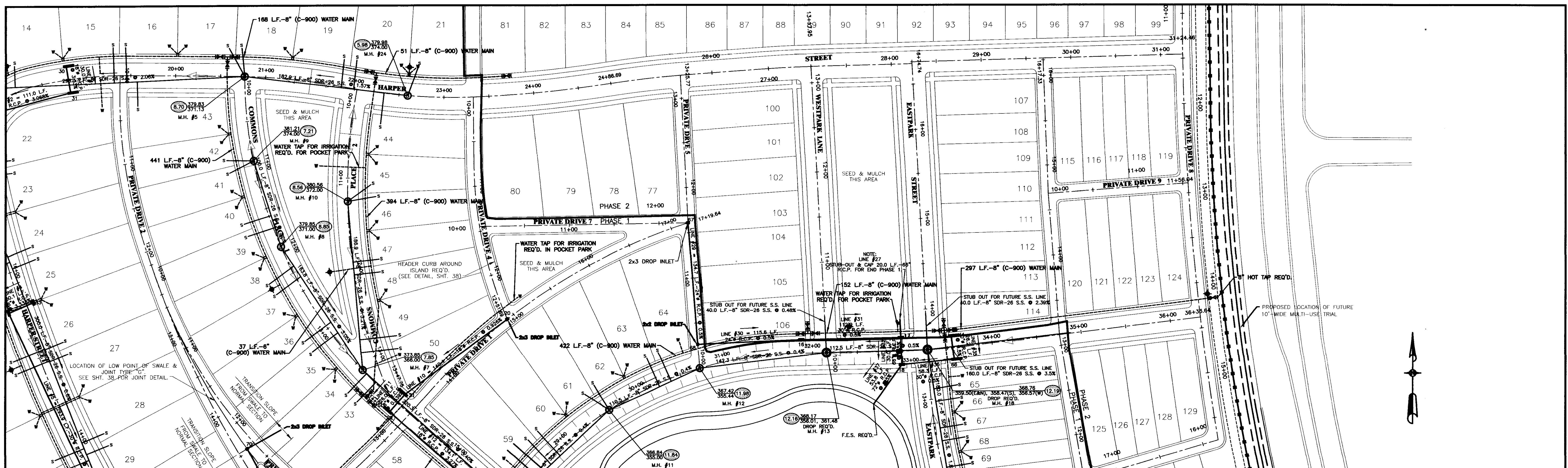
THE TOWNSHIP AT COLONY PARK

RIDGELAND, MISSISSIPPI

REVISIONS		
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SCALE: 1" = 50'
DATE: 07-24-02
APPROVED BY: DSB
DRAWN BY: AUJ/KSP
CHECKED BY: DSB

SHEET TITLE:
PLAN - PROFILE
PRIVATE DRIVE 5
FILE NAME: M:\ SHEET NO: **17**



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06-24-2003

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THE TOWNSHIP AT COLONY PARK

RIDGELAND, MISSISSIPPI

REVISIONS		
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SCALE: 1" = 50'
DATE: 07-24-02
APPROVED BY: DSB
DRAWN BY: AUJ/KSP
CHECKED BY: DSB

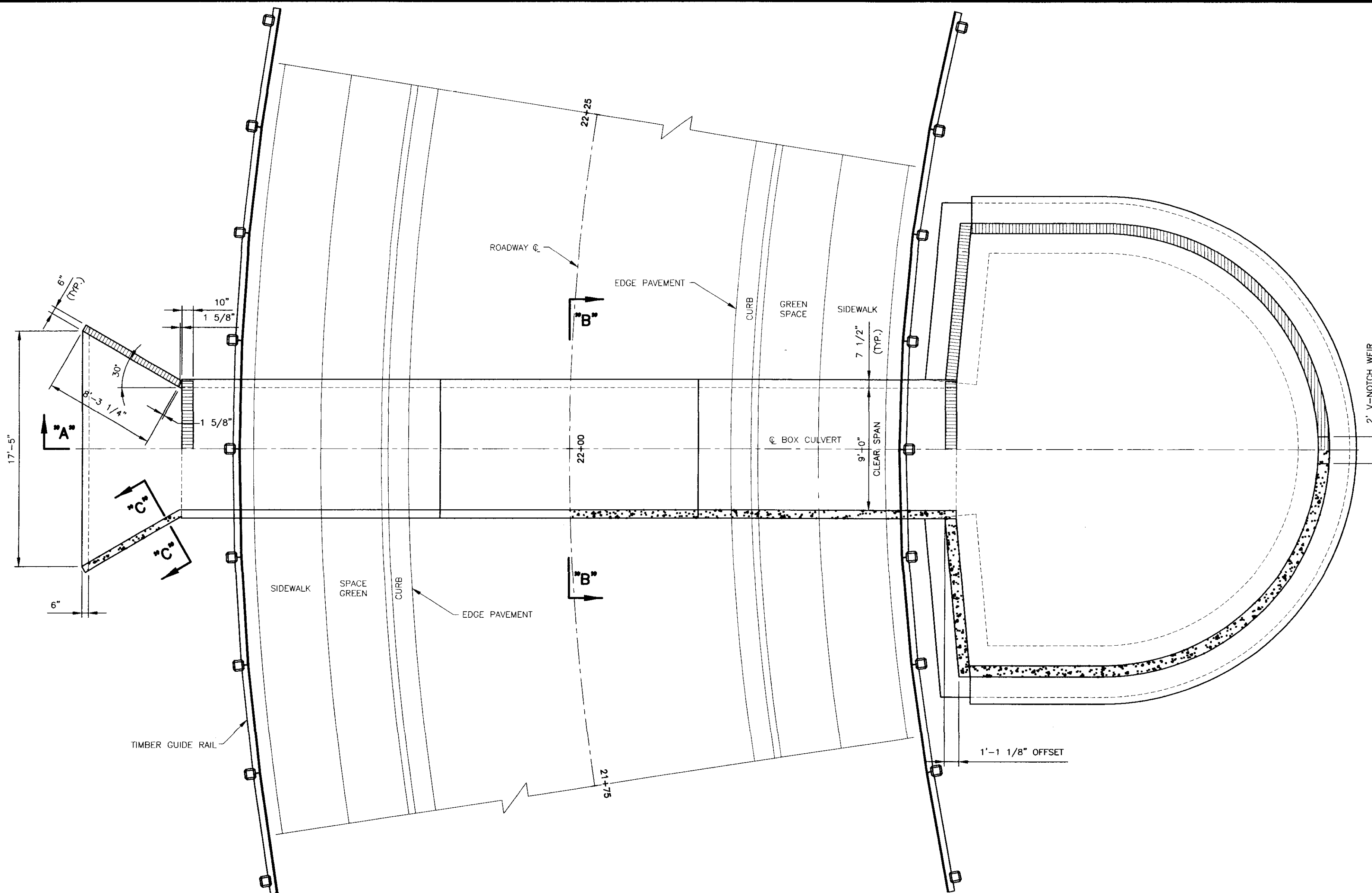
SHEET TITLE:
PLAN - PROFILE
PRIVATE DRIVE 7

FILE NAME: m\ SHEET NO: **19**

GENERAL NOTES:

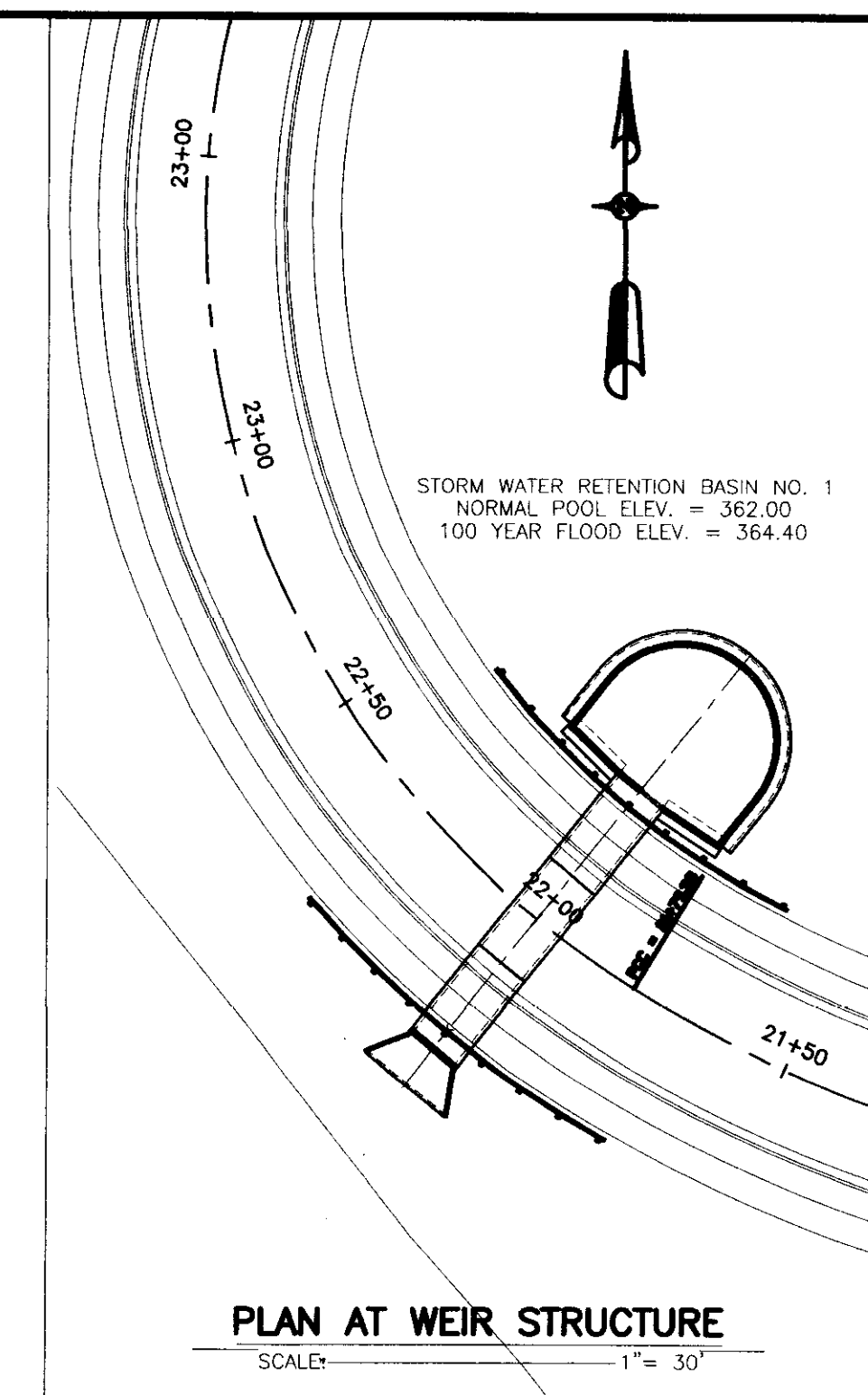
- 1) ALL CONCRETE SHALL BE CLASS "B".
- 2) CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH SUB-SECTION 904.03.19.
- 3) ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4 INCH.
- 4) THE SOILS EXPOSED AFTER EXCAVATION TO GRADE SHALL BE CHECKED FOR STABILITY. SOILS PUMPING OR YIELDING UNDER NORMAL FULL COMPACTION SHALL BE EXCAVATED TO A STABLE FOUNDATION, AND REPLACED WITH SELECT CL SOILS FROM THE SITE. BACKFILL REQUIREMENTS SHALL BE AS DESCRIBED IN NOTE 5 BELOW.
- 5) SOILS UNDER THE STRUCTURE AND IN THE ADJACENT ROADWAY EMBANKMENT FILL SHALL BE CL SOILS PLACED IN MAXIMUM 9-INCH LOOSE LIFTS AND COMPACTED TO 95% PROCTER MAX. DRY DENSITY (ASTM D698) AT A MOISTURE WITHIN ±3% OF STANDARD PROCTOR MOISTURE CONTENT.
- 6) ALL CONSTRUCTION JOINTS SHALL BE SEALED ON EACH EXPOSED SIDE WITH KYPEX CONCENTRATE, BRUSH APPLIED, AT 1.25 TO 1.5 LBS/SQ. YD.

SPECIFICATIONS: MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1990 EDITION
 BARREL, OUTLET WINDOW WALLS AND APRON CONSTRUCTED PER M.D.O.T. BRIDGE DESIGN DRAWINGS, WORKING NO. BS-4, SHEET NO. 321, AS REVISED 01/25/71 (ATTACHED).



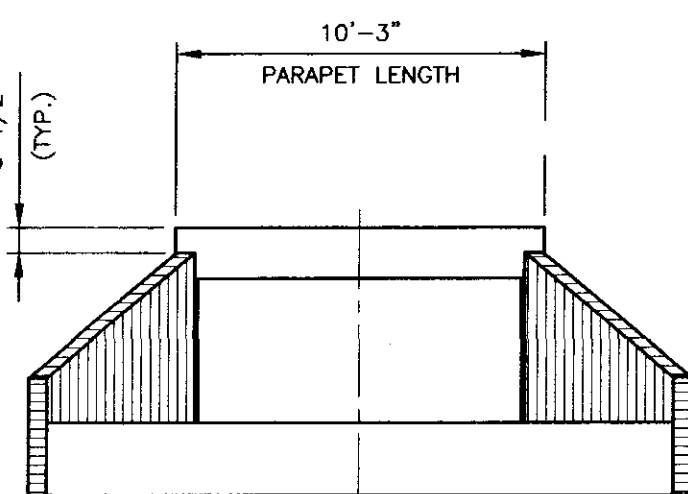
PLAN

SCALE: 3/16" = 1'-0"



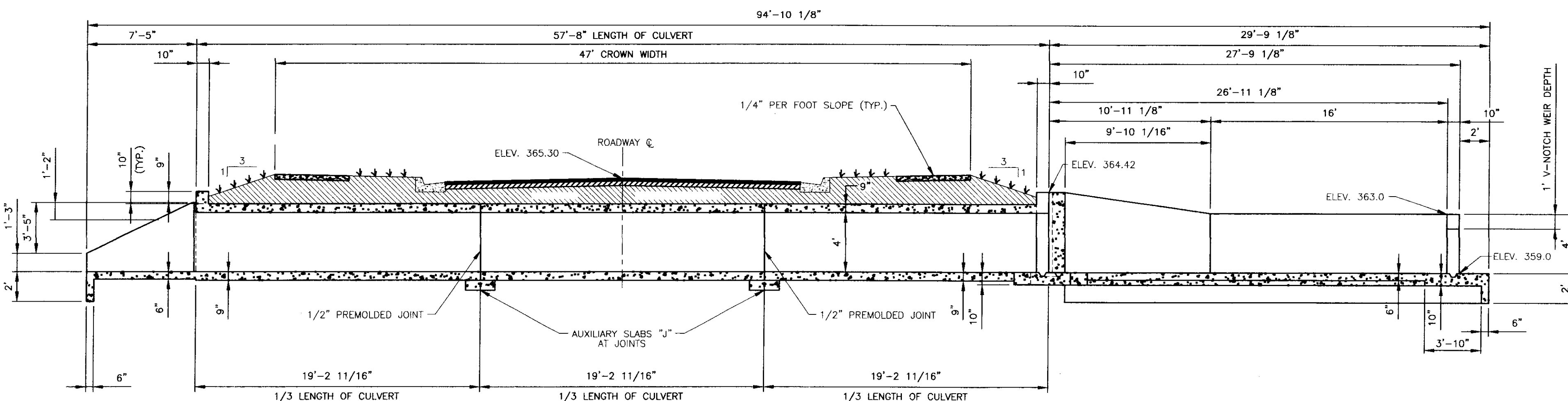
PLAN AT WEIR STRUCTURE

SCALE: 1" = 30'



END ELEVATION -- OUTLET SIDE

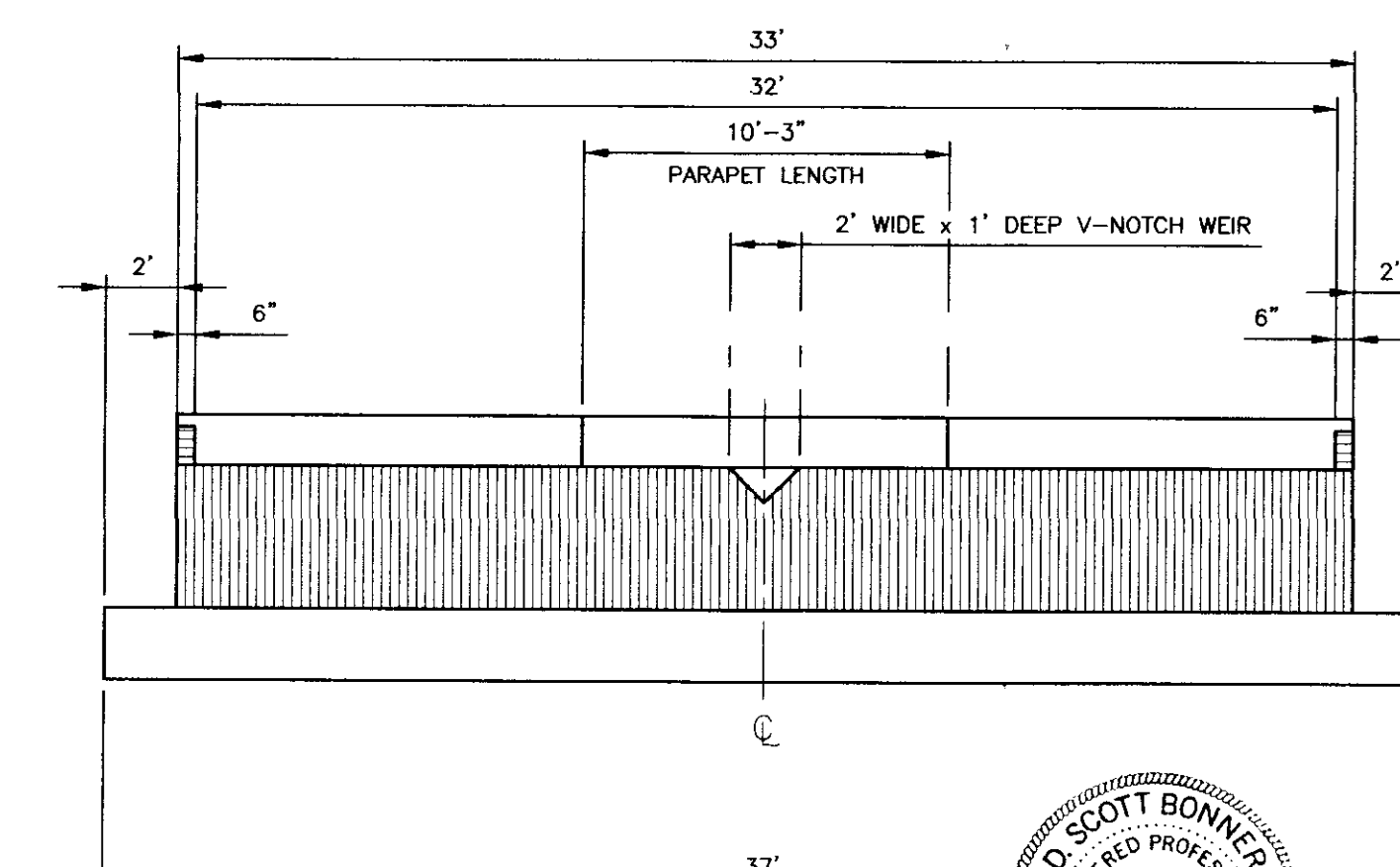
SCALE: 3/16" = 1'-0"



SECTION "A"- "A"

SCALE: 3/16" = 1'-0"

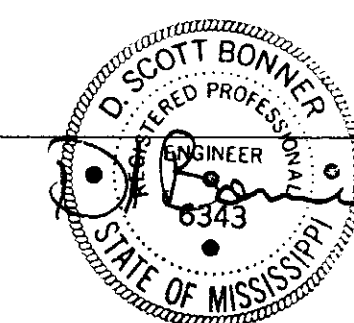
NOTE:
 CULVERT SHALL NOT BE SLOPED.



END ELEVATION -- WEIR SIDE

SCALE: 3/16" = 1'-0"

RECORD DRAWING
 06-24-2003



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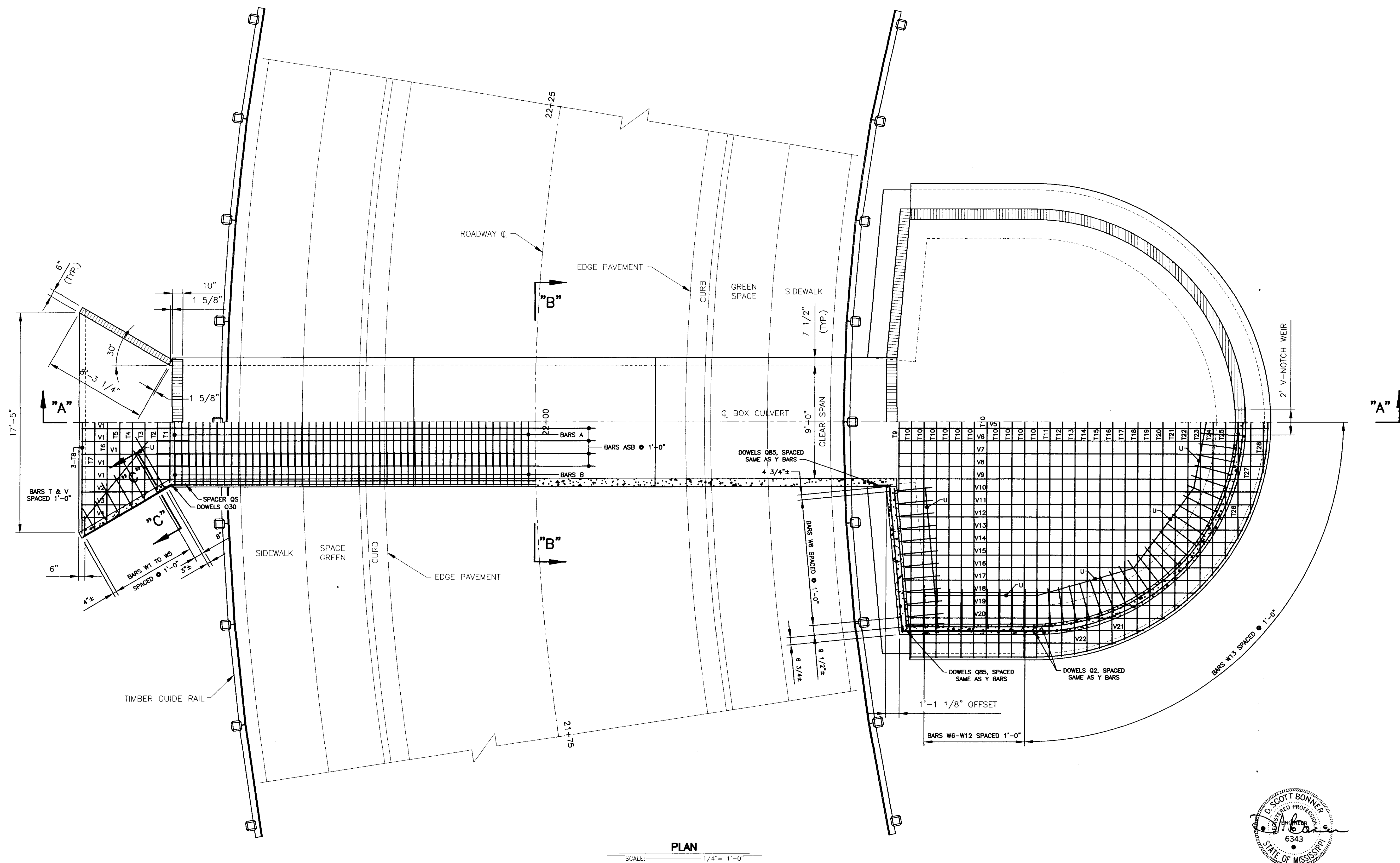
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TOWNSHIP AT COLONY PARK
RIDGELAND, MS

REVISIONS		
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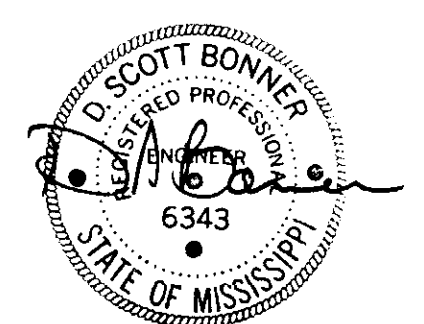
SCALE: AS NOTED
 DATE: 07/16/02
 APPROVED BY: JAE
 DRAWN BY: KSP
 CHECKED BY: JAE

SHEET TITLE:
NORTH LAKE CONTROL STRUCTURE LAYOUT
 FILE NAME: M:\Kerth\North-Culvert-Steel-Details.dwg
 SHEET NO: **20**



PLAN

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



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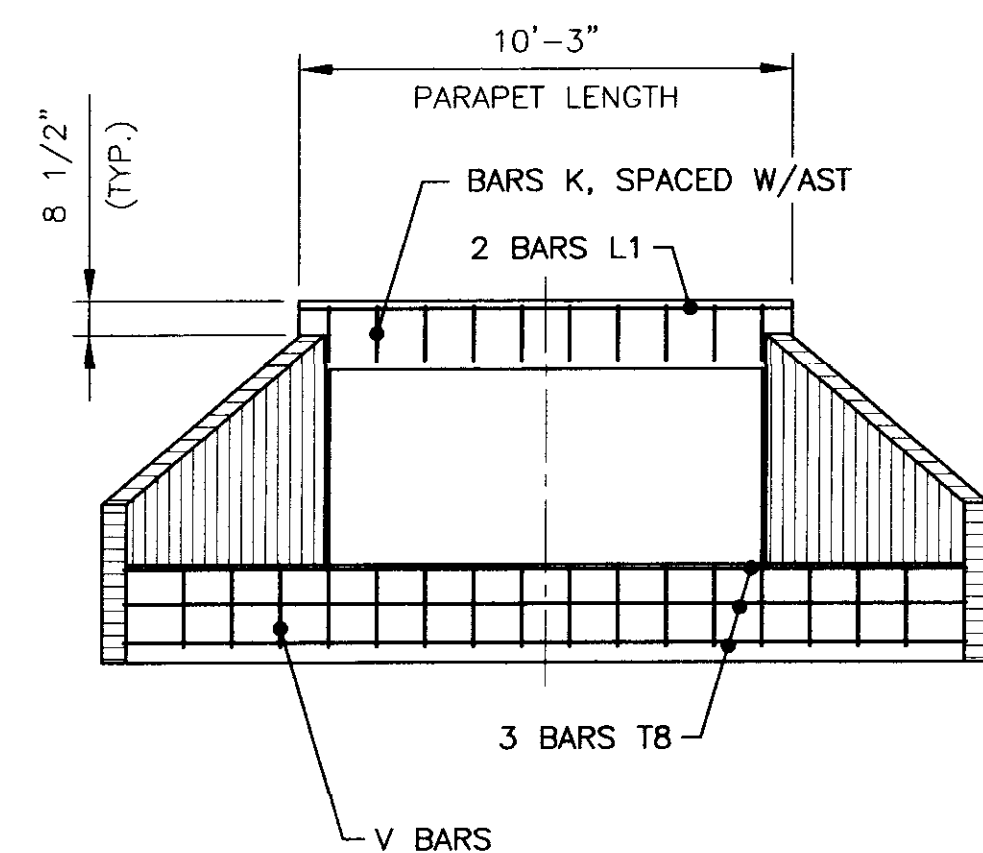
RIDGELAND, MS

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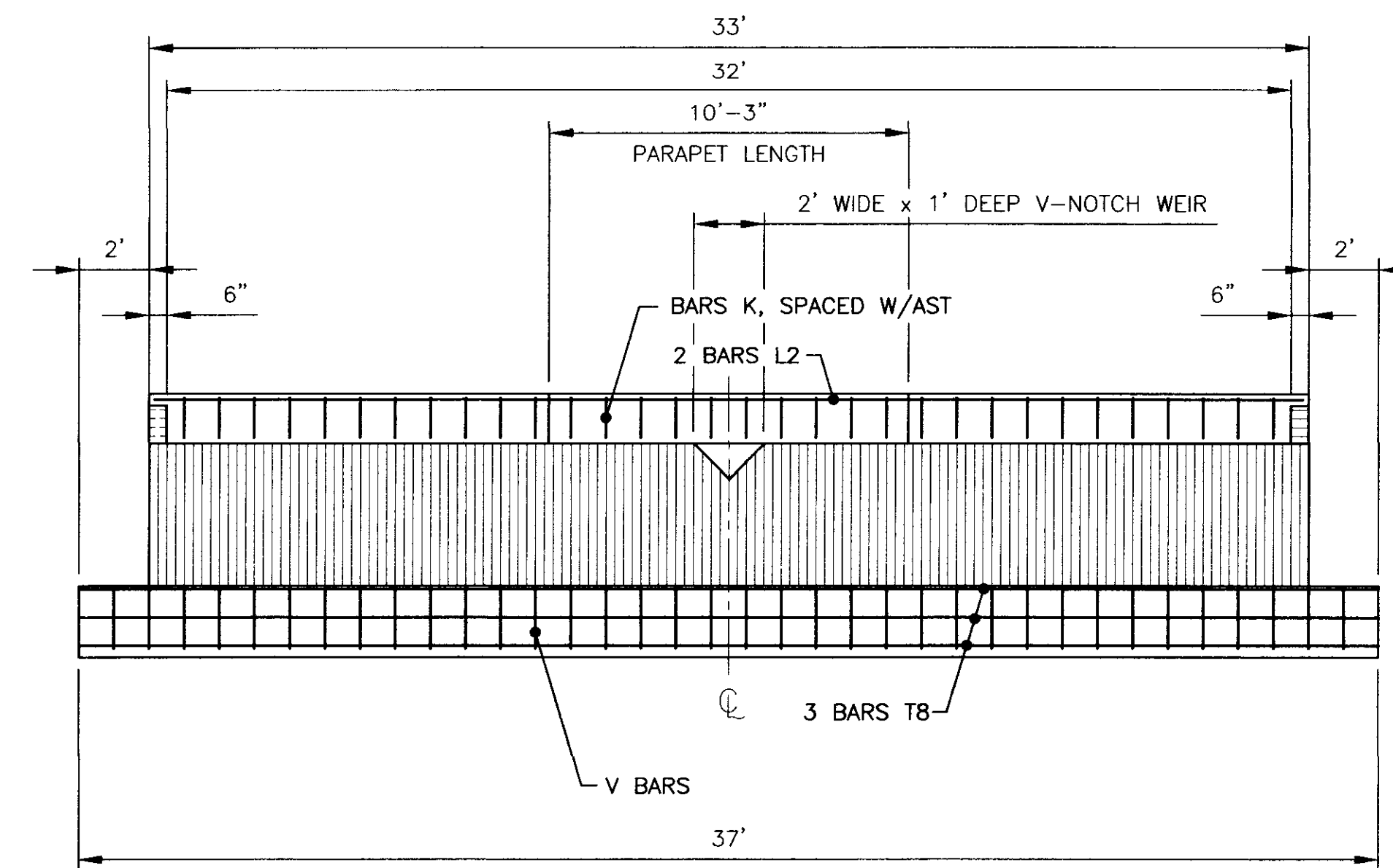
SCALE: AS NOTED
DATE: 07/16/02
APPROVED BY: JAE
DRAWN BY: KSP
CHECKED BY: JAE

SHEET TITLE:
NORTH LAKE CONTROL STRUCTURE PLAN VIEW

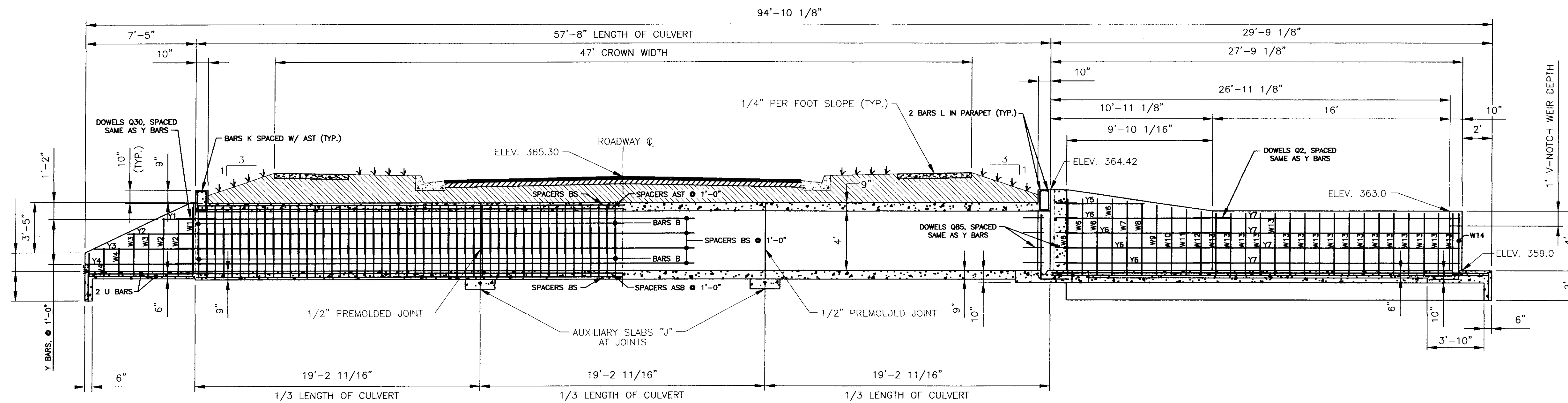
FILE NAME: M:\Kerith\Culvert_Details\Culvert-Steel-Details.dwg SHEET NO: **21**



END ELEVATION - OUTLET SIDE
SCALE: 1/4" = 1'-0"

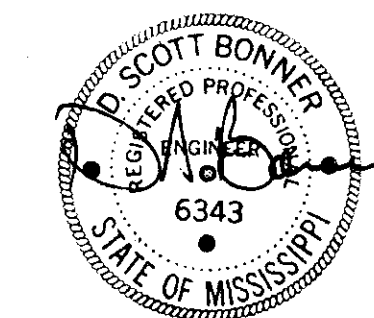


END ELEVATION - WEIR SIDE
SCALE: 1/4" = 1'-0"



NOTE:
CULVERT SHALL NOT BE SLOPED.

SECTION "A"- "A"
SCALE: 1/4" = 1'-0"



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TOWNSHIP AT COLONY PARK

RIDGELAND, MS

REVISIONS		
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SCALE: AS NOTED
DATE: 07/16/02
APPROVED BY: JAE
DRAWN BY: KSP
CHECKED BY: JAE

SHEET TITLE:
NORTH LAKE CONTROL STRUCTURE SECTION "A"-"A" & END VIEWS

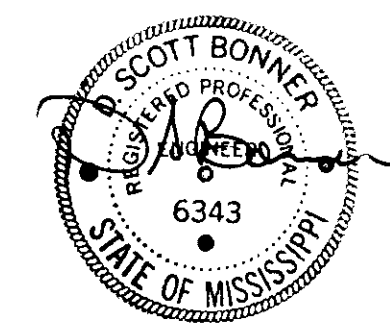
FILE NAME: M:\Kerloth_Culvert_Details\Culvert-Steel-Details.dwg SHEET NO: **22**

BAR LIST FOR WINGS & APRONS					
BAR	SIZE	NO. REQ'D.	DIM X	DIM X1	LENGTH
T1	#4	2			9'-6"
T2	#4	2			10'-8"
T3	#4	2			11'-10"
T4	#4	2			13'-0"
T5	#4	2			14'-2"
T6	#4	2			15'-4"
T7	#4	2			16'-6"
T8	#4	6			17'-6"
U	#4	8			8'-0"
V1	#4	22	7'-1"	1'-8"	8'-9"
V2	#4	4	5'-4"	1'-8"	7'-0"
V3	#4	4	3'-8"	1'-8"	5'-4"
V4	#4	4	1'-11"	1'-8"	3'-7"
W1	#4	8	2'-6"	4'-8"	7'-2"
W2	#4	8	2'-3"	3'-10"	6'-1"
W3	#4	8	1'-11"	2'-11"	4'-10"
W4	#4	8	1'-7"	2'-1"	3'-8"
W5	#4	4	1'-7"	1'-8"	3'-3"
Y1	#4	4			2'-2"
Y2	#4	4			4'-6"
Y3	#4	4			6'-9"
Y4	#4	4			8'-0"

BAR LIST FOR CIRCULAR WEIR WINGS & APRONS					
BAR	SIZE	NO. REQ'D.	DIM X	DIM X1	LENGTH
T9	#4	2			11'-1"
T10	#4	22			37'-4"
T11	#4	2			37'-3"
T12	#4	2			37'-1"
T13	#4	2			36'-9"
T14	#4	2			36'-4"
T15	#4	2			35'-10"
T16	#4	2			35'-2"
T17	#4	2			34'-5"
T18	#4	2			33'-6"
T19	#4	2			32'-5"
T20	#4	2			31'-3"
T21	#4	2			29'-10"
T22	#4	2			28'-2"
T23	#4	2			26'-4"
T24	#4	2			24'-2"
T25	#4	2			21'-7"
U	#4	8			8'-0"
V5	#4	4	29'-6"	1'-8"	31'-2"
V6	#4	4	29'-5"	1'-8"	31'-1"
V7	#4	4	29'-4"	1'-8"	31'-0"
V8	#4	4	29'-2"	1'-8"	30'-10"
V9	#4	4	28'-11"	1'-8"	30'-7"
V10	#4	4	28'-7"	1'-8"	30'-3"
V11	#4	4	28'-2"	1'-8"	29'-10"
V12	#4	4	27'-8"	1'-8"	29'-4"
V13	#4	4	27'-1"	1'-8"	28'-9"
V14	#4	4	26'-6"	1'-8"	28'-2"
V15	#4	4	25'-9"	1'-8"	27'-5"
V16	#4	4	24'-11"	1'-8"	26'-7"
V17	#4	4	24'-0"	1'-8"	25'-8"
V18	#4	4	22'-11"	1'-8"	24'-7"
V19	#4	4	21'-8"	1'-8"	23'-4"
V20	#4	4	20'-3"	1'-8"	21'-11"
V21	#4	4	18'-7"	1'-8"	20'-3"
V22	#4	4	16'-4"	1'-8"	18'-0"

BAR LIST FOR CIRCULAR WEIR WINGS & APRONS (CONT.)					
BAR	SIZE	NO. REQ'D.	DIM X	DIM X1	LENGTH
W6	#4	32	5'-2"	3'-0"	8'-2"
W7	#4	2	5'-0"	3'-0"	8'-0"
W8	#4	2	4'-11"	3'-0"	7'-11"
W9	#4	2	4'-9"	3'-0"	7'-9"
W10	#4	2	4'-7"	3'-0"	7'-7"
W11	#4	2	4'-6"	3'-0"	7'-6"
W12	#4	2	4'-4"	3'-0"	7'-4"
W13	#4	48	4'-2"	3'-0"	7'-2"
W14	#4	48	4'-5"	1'-10"	6'-3"
Y5	#4	2			5'-3"
Y6	#4	8			9'-9"
Y7	#4	4			51'-10"

BAR LIST FOR BARREL (LENGTH = 57'-8") & PARAPET (LENGTH = 10'-0")																		BAR LIST, 2 AUX. SLABS "J"																	
BARS "A"				BARS "B"				DOWELS Q30-#4		DOWELS Q2-#4		DOWELS Q85-#4		SPACERS QS-#4		BARS AST #4		BARS ASB #4		BARS BS #4		BARS K #4		BARS L1 #4		BARS L2 #4		BARS M #4		BARS N #4					
NO.	SIZE	SPACE	LENGTH	NO.	SIZE	SPACE	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH		
210	#6	6 3/4"	10'-0"	420	#5	6 3/4"	6'-5"	10	2'-6"	8	2'-6"	18	2'-6"	4	3'-7"	27	20'-2"	27	23'-0"	60	20'-6"	20	4'-4"	2	9'-8"	2	32'-8"	6	9'-11"	22	2'-2"				



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TOWNSHIP AT COLONY PARK

RIDGELAND, MS

REVISIONS		
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SCALE: N.T.S.
DATE: 07/16/02
APPROVED BY: JAE
DRAWN BY: KSP
CHECKED BY: JAE

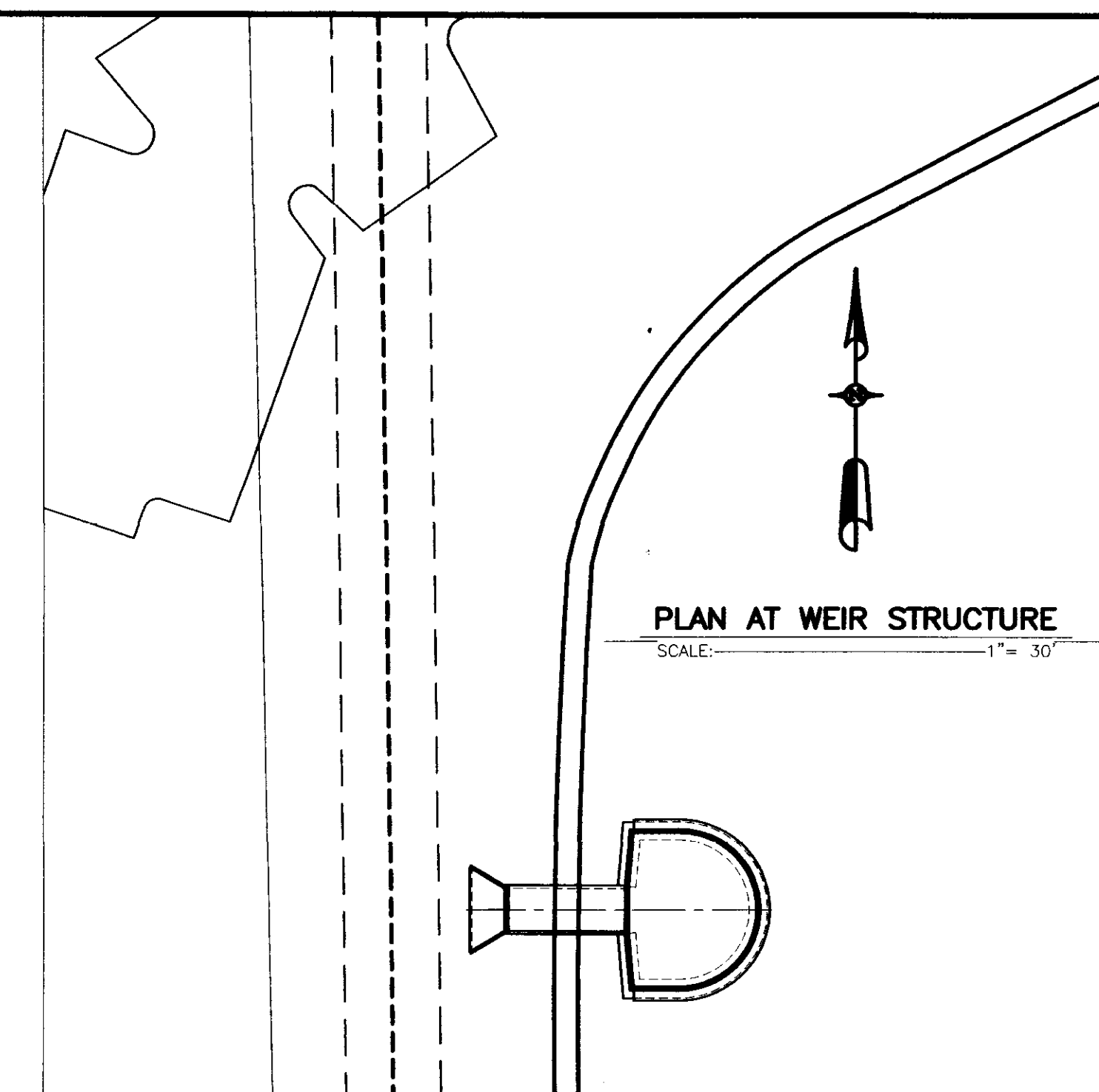
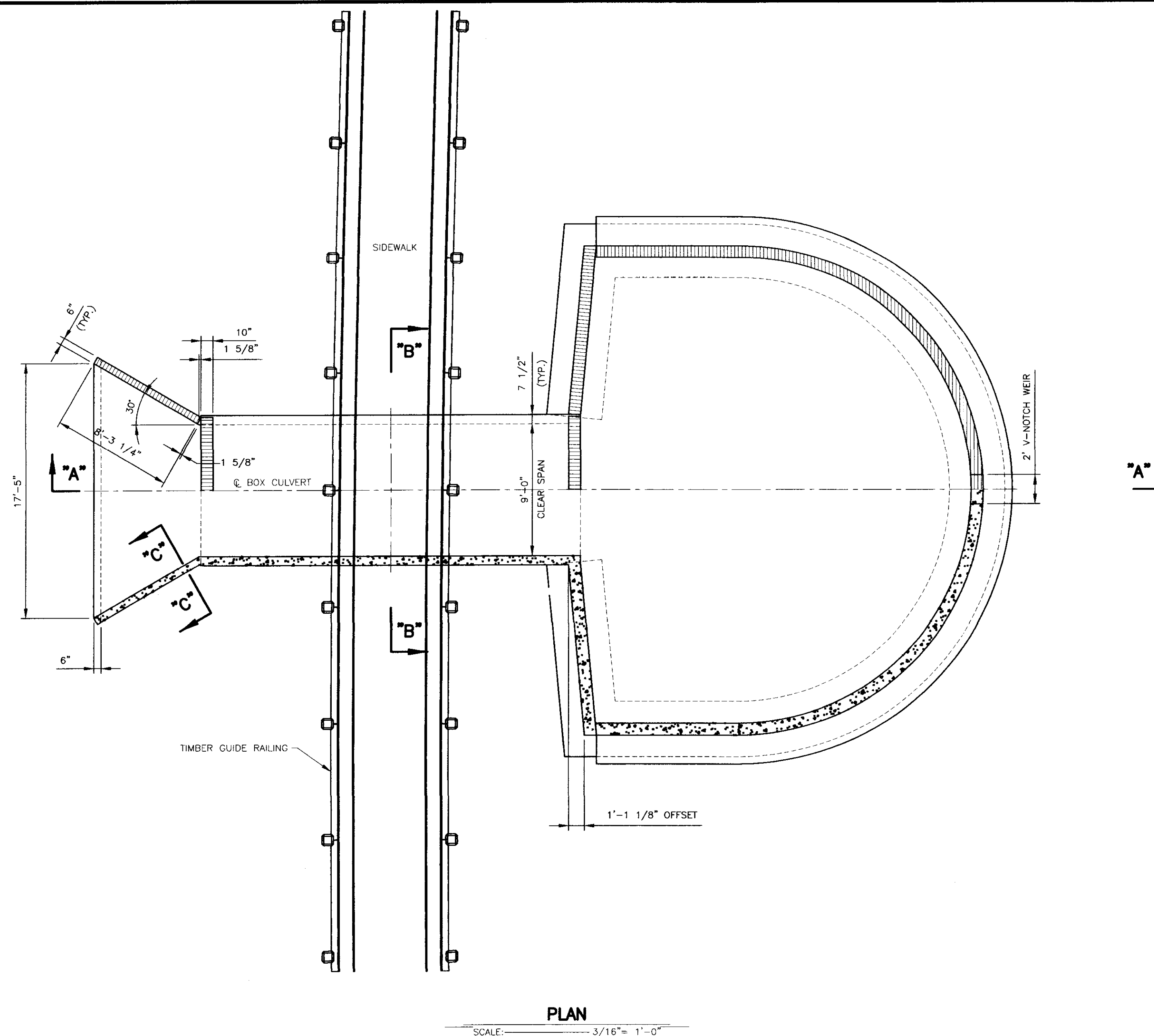
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NORTH LAKE CONTROL STRUCTURE BAR LIST

FILE NAME: M:\kerloth\Culvert Details\Culvert-Steel-Details.dwg
SHEET NO: **23**

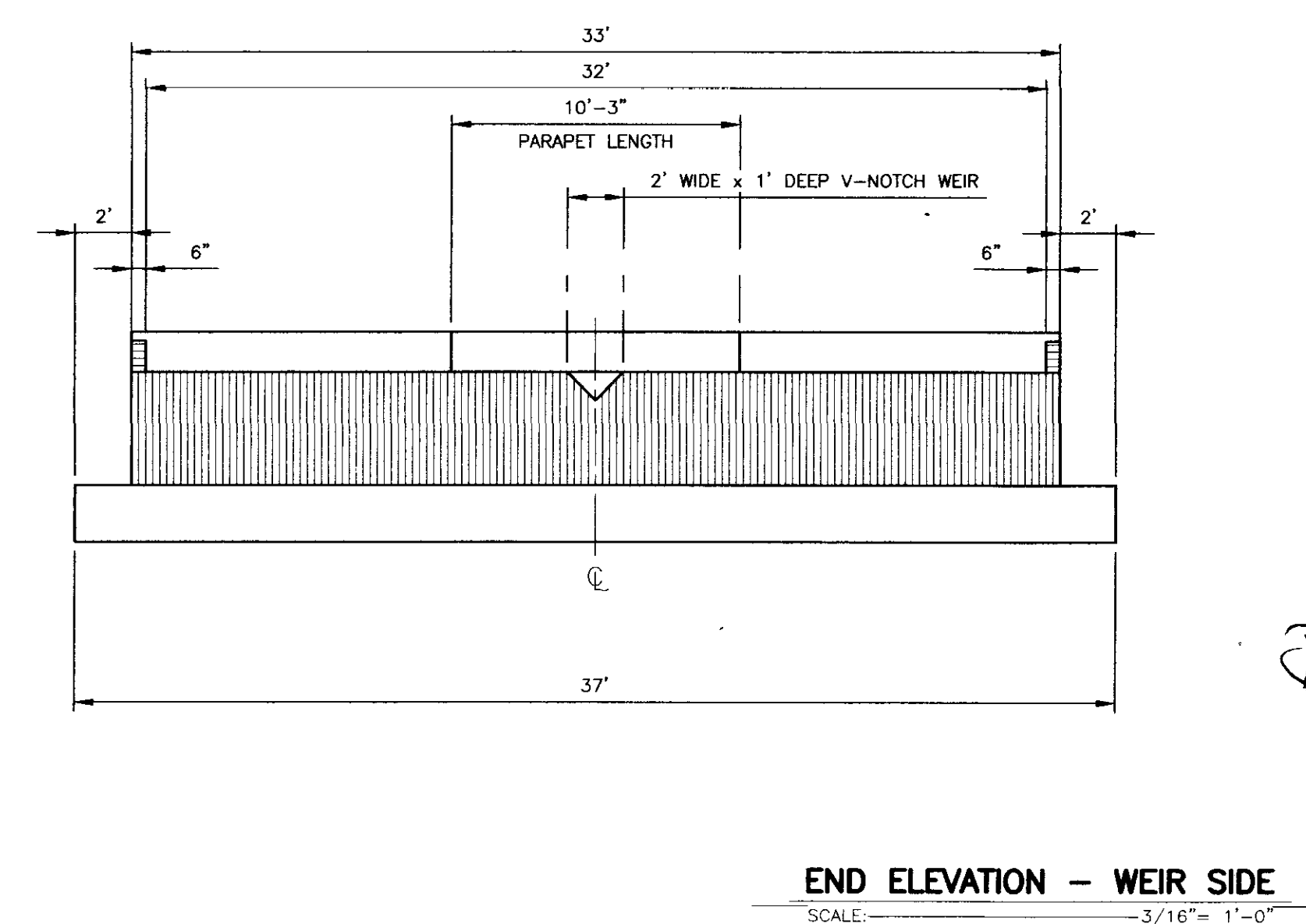
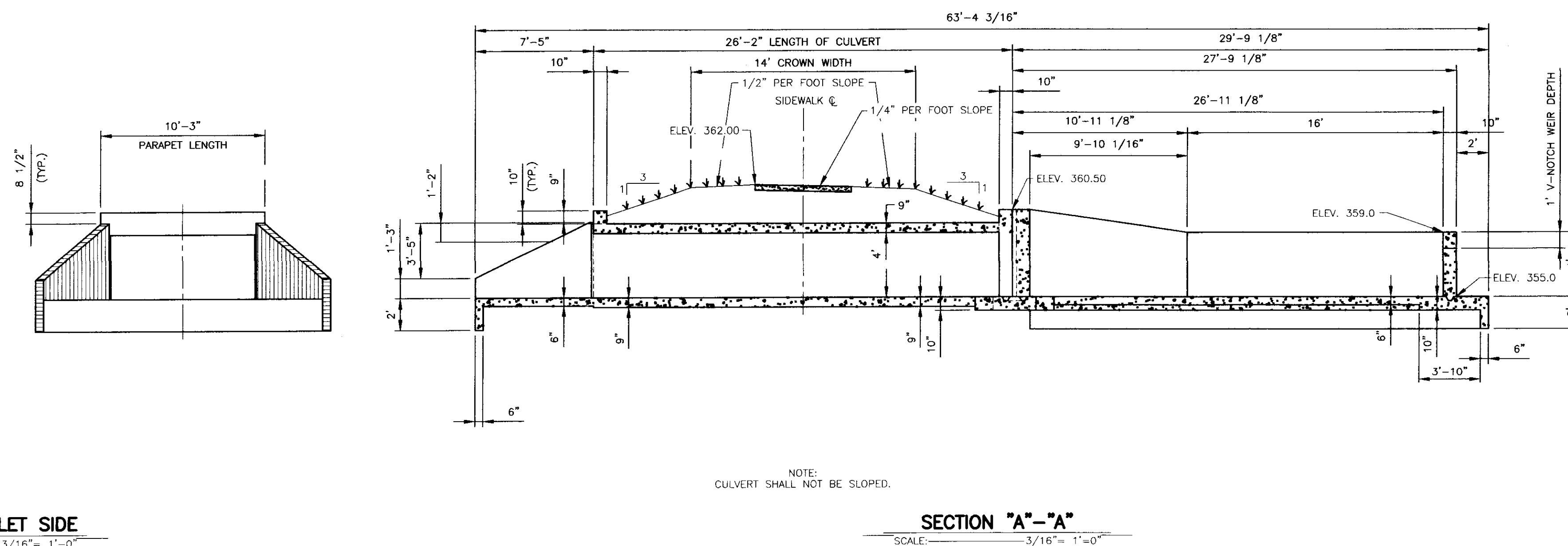
GENERAL NOTES:

- 1) ALL CONCRETE SHALL BE CLASS "B".
- 2) CONCRETE SURFACES SHALL BE FINISHED IN ACCORDANCE WITH SUB-SECTION 804.03.19.
- 3) ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4 INCH.
- 4) THE SOILS EXPOSED AFTER EXCAVATION TO GRADE SHALL BE CHECKED FOR STABILITY. SOILS PUMPING OR YIELDING UNDER NORMAL FULL COMPACTION SHALL BE EXCAVATED TO A STABLE FOUNDATION, AND REPLACED WITH SELECT CL SOILS FROM THE SITE. BACKFILL REQUIREMENTS SHALL BE AS DESCRIBED IN NOTE 5 BELOW.
- 5) SOILS UNDER THE STRUCTURE AND IN THE ADJACENT ROADWAY EMBANKMENT FILL SHALL BE CL SOILS PLACED IN MAXIMUM 9-INCH LOOSE LIFTS AND COMPACTED TO 95% PROCTER MAX. DRY DENSITY (ASTM D698) AT A MOISTURE WITHIN ±.3% OF STANDARD PROCTOR MOISTURE CONTENT.
- 6) ALL CONSTRUCTION JOINTS SHALL BE SEALED ON EACH EXPOSED SIDE WITH XYPEX CONCENTRATE, BRUSH APPLIED, AT 1.25 TO 1.5 LBS/SQ. YD.

SPECIFICATIONS: MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1990 EDITION
 BARREL OUTLET WINGWALLS AND APRON CONSTRUCTED PER M.D.O.T. BRIDGE DESIGN DRAWINGS, WORKING NO. BS-4, SHEET NO. 321, AS REVISED 01/25/71 (ATTACHED).



RECORD DRAWING
 06-24-2003



DCI DIVERSIFIED CONSULTANTS, INC.
 CONSULTING ENGINEERS ... CITY, COUNTY, AND REGIONAL PLANNERS
 395 EDGEWOOD TERRACE
 JACKSON, MS 39206

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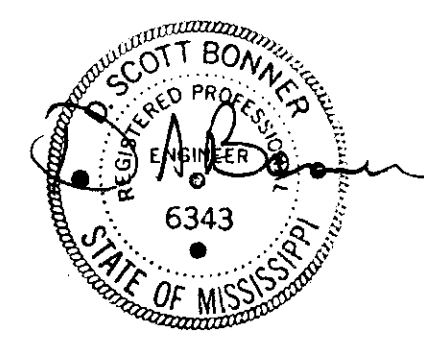
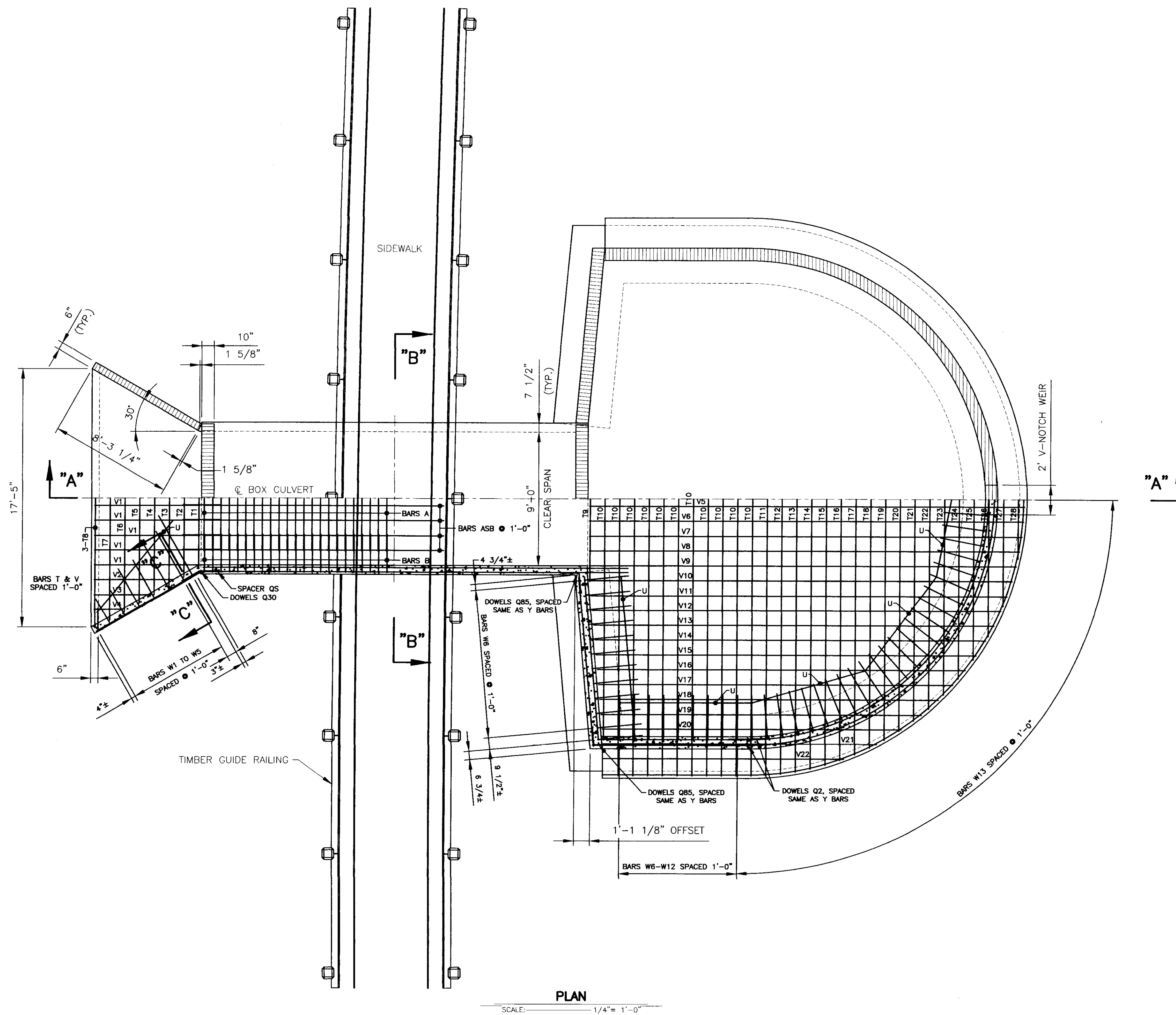
TOWNSHIP AT COLONY PARK

RIDGELAND, MS

REVISIONS		
NO.	DATE	BY
1		
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3		
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6		

SCALE: AS NOTED
 DATE: 07/16/02
 APPROVED BY: JAE
 DRAWN BY: KSP
 CHECKED BY: JAE

SHEET TITLE: **SOUTH LAKE CONTROL STRUCTURE LAYOUT**
 FILE NAME: M:\Kerith\Culvert Details\South-Culvert-Steel-Details.dwg
 SHEET NO: **24**



RECORD DRAWING
06-24-2003

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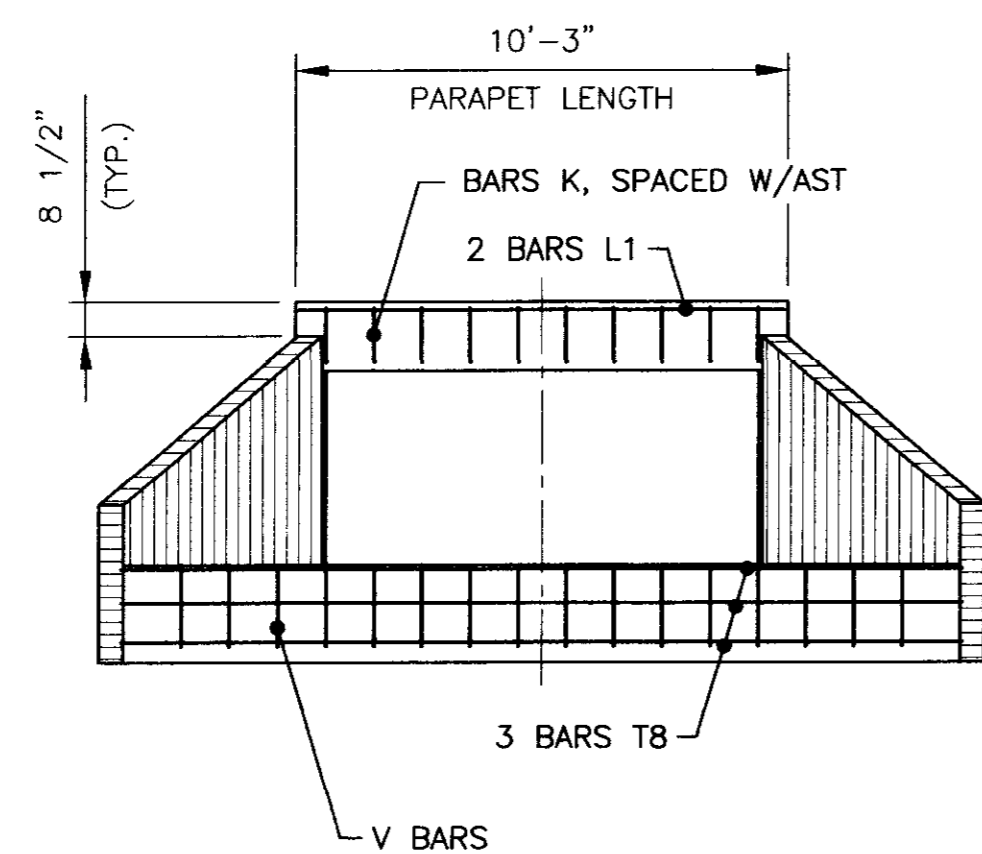
RIDGELAND, MS

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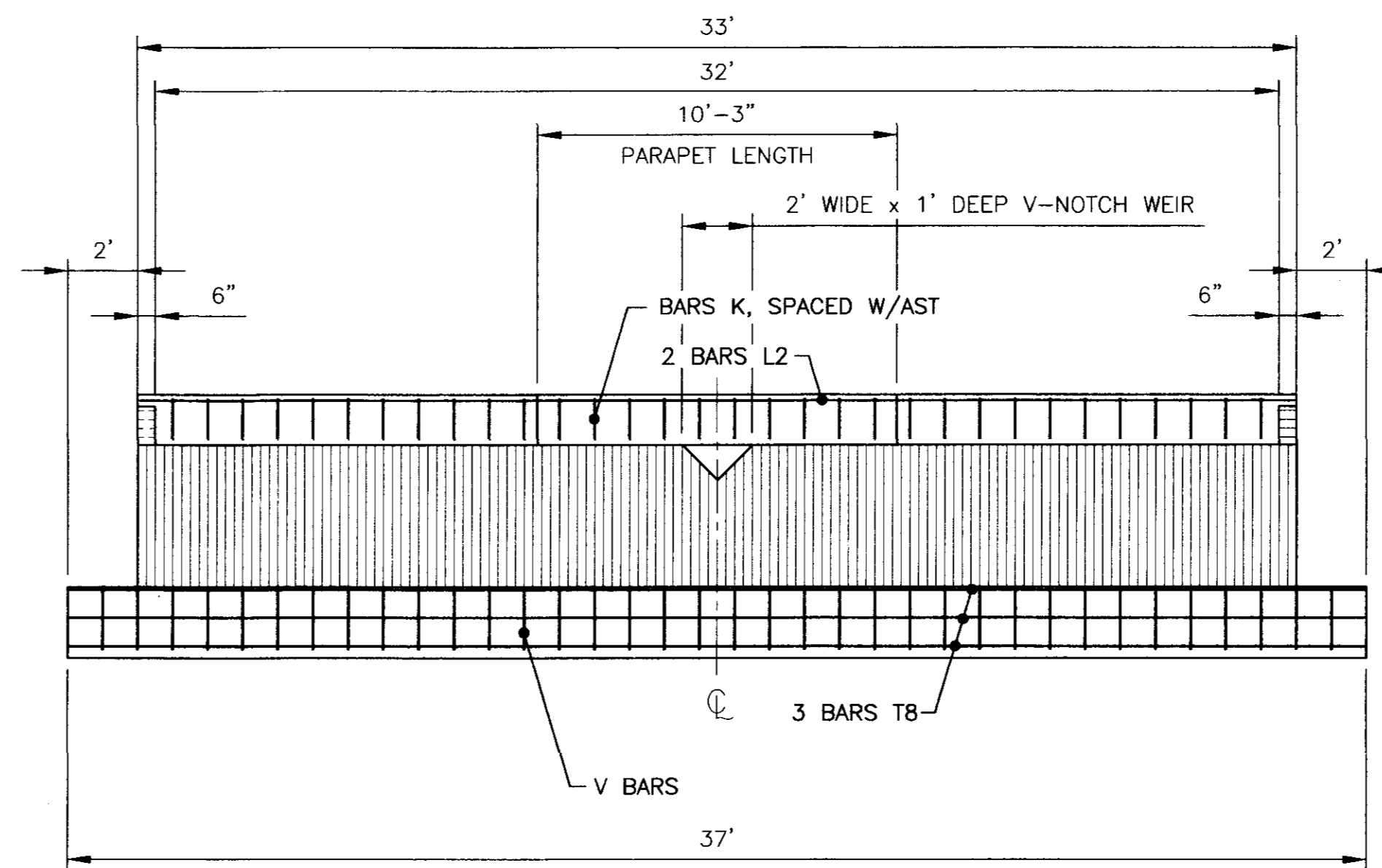
SCALE: AS NOTED
DATE: 07/16/02
APPROVED BY: JAE
DRAWN BY: KSP
CHECKED BY: JAE

SHEET TITLE: **SOUTH LAKE CONTROL STRUCTURE PLAN VIEW**

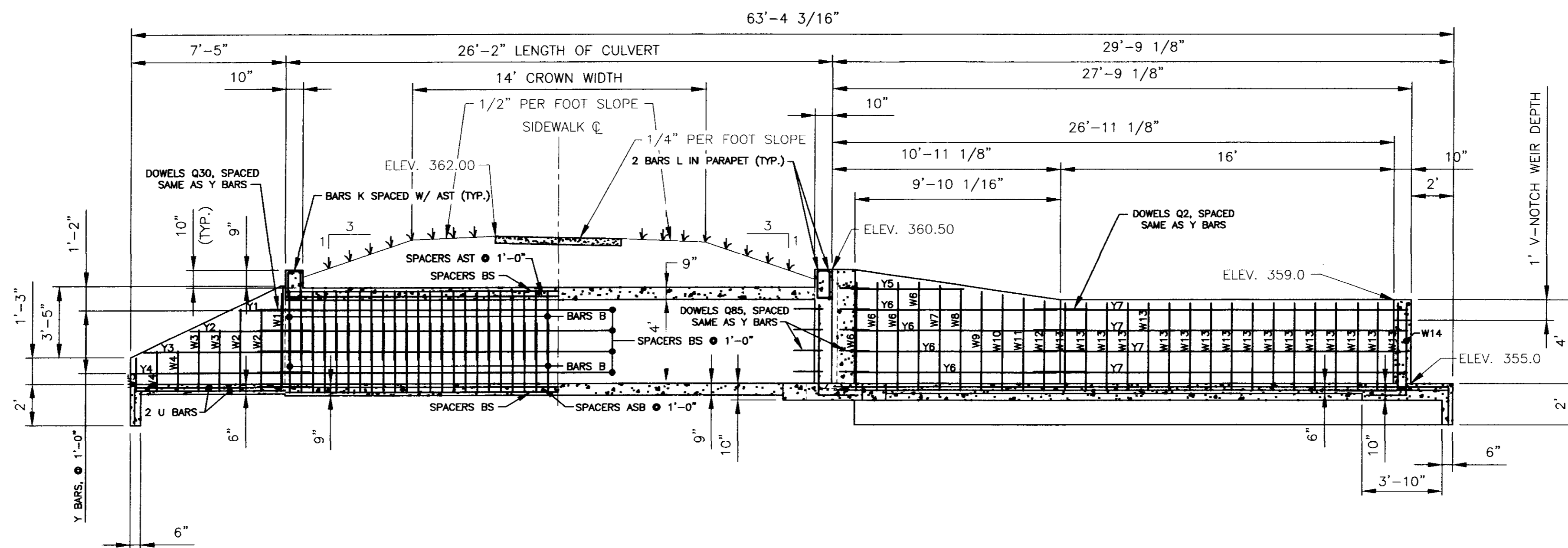
FILE NAME: M:\Koroth_Culvert_Details\South-Culvert-Steel-Details.dwg SHEET NO: **25**



END ELEVATION - OUTLET SIDE
SCALE: 1/4" = 1'-0"



END ELEVATION - WEIR SIDE
SCALE: 1/4" = 1'-0"



NOTE:
CULVERT SHALL NOT BE SLOPED.

SECTION "A"-A"
SCALE: 1/4" = 1'-0"



RECORD DRAWING
06-24-2003

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TOWNSHIP AT COLONY PARK
RIDGELAND, MS

REVISIONS		
NO.	DATE	BY
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6		

SCALE: AS NOTED
DATE: 07/16/02
APPROVED BY: JAE
DRAWN BY: KSP
CHECKED BY: JAE

SHEET TITLE: **SOUTH LAKE CONTROL STRUCTURE SECTION "A"-A' & END VIEWS**
FILE NAME: M:\Kerith\ Culvert Details\South-Culvert-Steel-Details.dwg
SHEET NO: 26

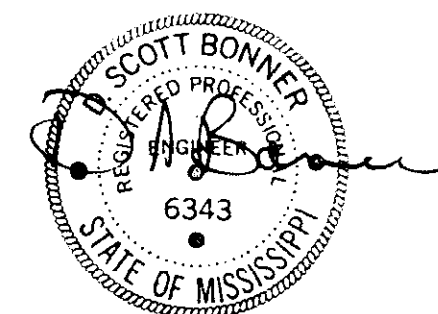
PWP-02020

BAR LIST FOR WINGS & APRONS					
BAR	SIZE	NO. REQ'D.	DIM X	DIM X1	LENGTH
T1	#4	2			9'-6"
T2	#4	2			10'-8"
T3	#4	2			11'-10"
T4	#4	2			13'-0"
T5	#4	2			14'-2"
T6	#4	2			15'-4"
T7	#4	2			16'-6"
T8	#4	6			17'-6"
U	#4	8			8'-0"
V1	#4	22	7'-1"	1'-8"	8'-9"
V2	#4	4	5'-4"	1'-8"	7'-0"
V3	#4	4	3'-8"	1'-8"	5'-4"
V4	#4	4	1'-11"	1'-8"	3'-7"
W1	#4	8	2'-6"	4'-8"	7'-2"
W2	#4	8	2'-3"	3'-10"	6'-1"
W3	#4	8	1'-11"	2'-11"	4'-10"
W4	#4	8	1'-7"	2'-1"	3'-8"
W5	#4	4	1'-7"	1'-8"	3'-3"
Y1	#4	4			2'-2"
Y2	#4	4			4'-6"
Y3	#4	4			6'-9"
Y4	#4	4			8'-0"

BAR LIST FOR CIRCULAR WEIR WINGS & APRONS					
BAR	SIZE	NO. REQ'D.	DIM X	DIM X1	LENGTH
T9	#4	2			11'-1"
T10	#4	22			37'-4"
T11	#4	2			37'-3"
T12	#4	2			37'-1"
T13	#4	2			36'-9"
T14	#4	2			36'-4"
T15	#4	2			35'-10"
T16	#4	2			35'-2"
T17	#4	2			34'-5"
T18	#4	2			33'-6"
T19	#4	2			32'-5"
T20	#4	2			31'-3"
T21	#4	2			29'10"
T22	#4	2			28'-2"
T23	#4	2			26'-4"
T24	#4	2			24'-2"
T25	#4	2			21'-7"
U	#4	8			8'-0"
V5	#4	4	29'-6"	1'-8"	31'-2"
V6	#4	4	29'-5"	1'-8"	31'-1"
V7	#4	4	29'-4"	1'-8"	31'-0"
V8	#4	4	29'-2"	1'-8"	30'-10"
V9	#4	4	28'-11"	1'-8"	30'-7"
V10	#4	4	28'-7"	1'-8"	30'-3"
V11	#4	4	28'-2"	1'-8"	29'-10"
V12	#4	4	27'-8"	1'-8"	29'-4"
V13	#4	4	27'-1"	1'-8"	28'-9"
V14	#4	4	26'-6"	1'-8"	28'-2"
V15	#4	4	25'-9"	1'-8"	27'-5"
V16	#4	4	24'-11"	1'-8"	26'-7"
V17	#4	4	24'-0"	1'-8"	25'-8"
V18	#4	4	22'-11"	1'-8"	24'-7"
V19	#4	4	21'-8"	1'-8"	23'-4"
V20	#4	4	20'-3"	1'-8"	21'-11"
V21	#4	4	18'-7"	1'-8"	20'-3"
V22	#4	4	16'-4"	1'-8"	18'-0"

BAR LIST FOR CIRCULAR WEIR WINGS & APRONS (CONT.)					
BAR	SIZE	NO. REQ'D.	DIM X	DIM X1	LENGTH
W6	#4	32	5'-2"	3'-0"	8'-2"
W7	#4	2	5'-0"	3'-0"	8'-0"
W8	#4	2	4'-11"	3'-0"	7'-11"
W9	#4	2	4'-9"	3'-0"	7'-9"
W10	#4	2	4'-7"	3'-0"	7'-7"
W11	#4	2	4'-6"	3'-0"	7'-6"
W12	#4	2	4'-4"	3'-0"	7'-4"
W13	#4	48	4'-2"	3'-0"	7'-2"
W14	#4	48	4'-5"	1'-10"	6'-3"
Y5	#4	2			5'-3"
Y6	#4	8			9'-9"
Y7	#4	4			51'-10"

BAR LIST FOR BARREL (LENGTH = 57'-8") & PARAPET (LENGTH = 10'-0")																BAR LIST, 2 AUX. SLABS "J"															
BARS "A"				BARS "B"				DOWELS Q30-#4	DOWELS Q2-#4	DOWELS Q85-#4	SPACERS QS-#4	BARS AST #4	BARS ASB #4	BARS BS #4	BARS K #4	BARS L1 #4	BARS L2 #4	BARS M #4	BARS N #4												
NO.	SIZE	SPACE	LENGTH	NO.	SIZE	SPACE	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH												
92	#6	6 3/4"	10'-0"	92	#5	6 3/4"	6'-5"	10	2'-6"	8	2'-6"	18	2'-6"	4	3'-7"	18	25'-10"	18	28'-8"	12	25'-10"	42	4'-4"	2	9'-8"	2	32'-10"	6	10'-3"	24	2'-2"



RECORD DRAWING
06-24-2003

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TOWNSHIP AT COLONY PARK RIDGELAND, MS

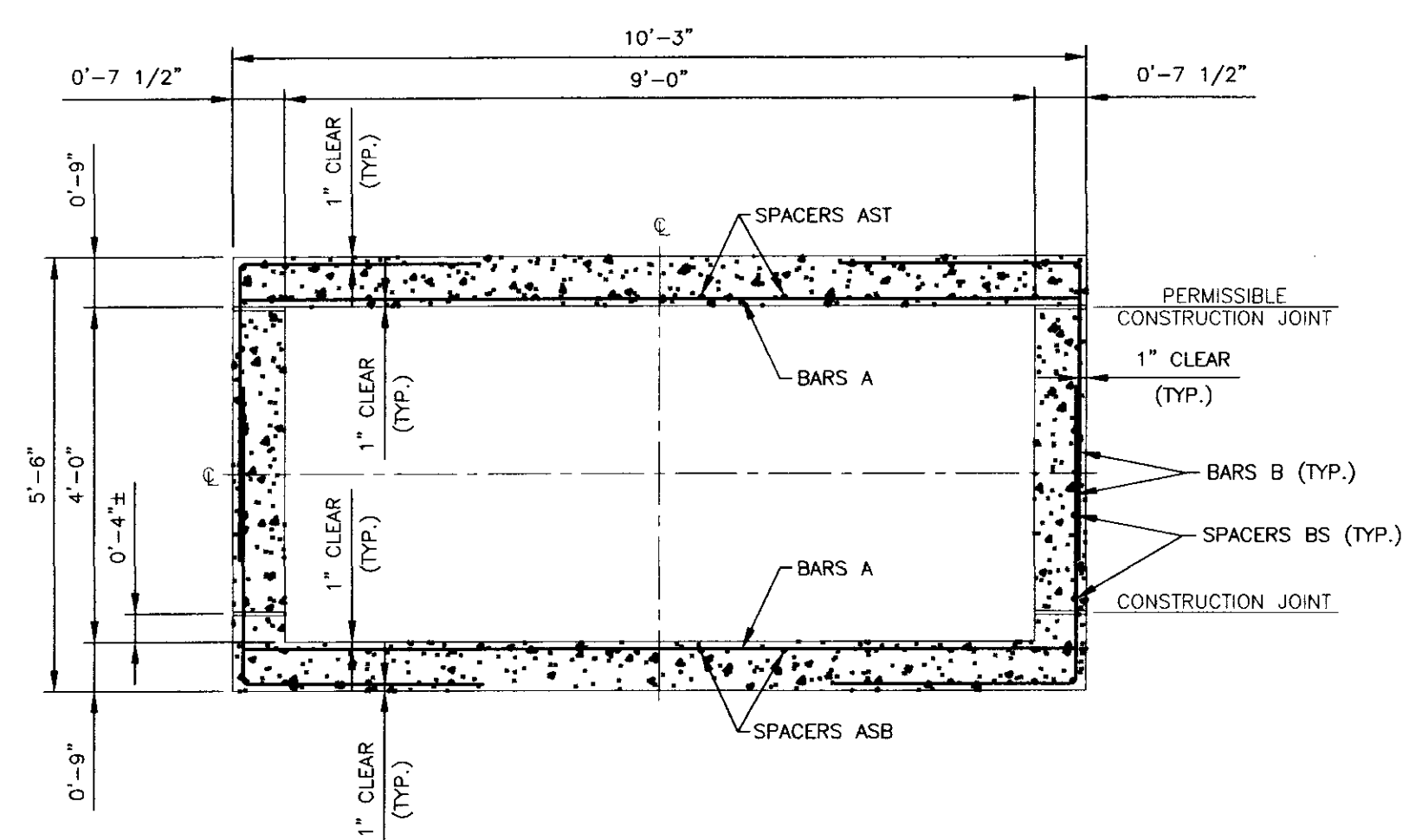
REVISIONS		
NO.	DATE	BY
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SCALE: N.T.S.
DATE: 07/16/02
APPROVED BY: JAE
DRAWN BY: KSP
CHECKED BY: JAE

SHEET TITLE:
SOUTH LAKE CONTROL STRUCTURE BAR LIST

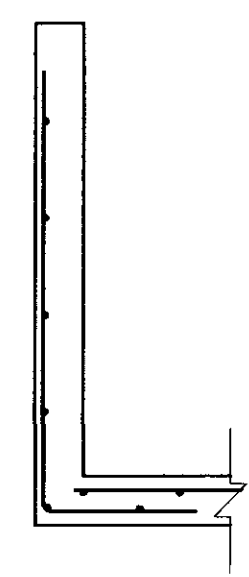
FILE NAME: M:\Keriah Culvert Details\South-Culvert-Steel-Details.dwg

SHEET NO: 27

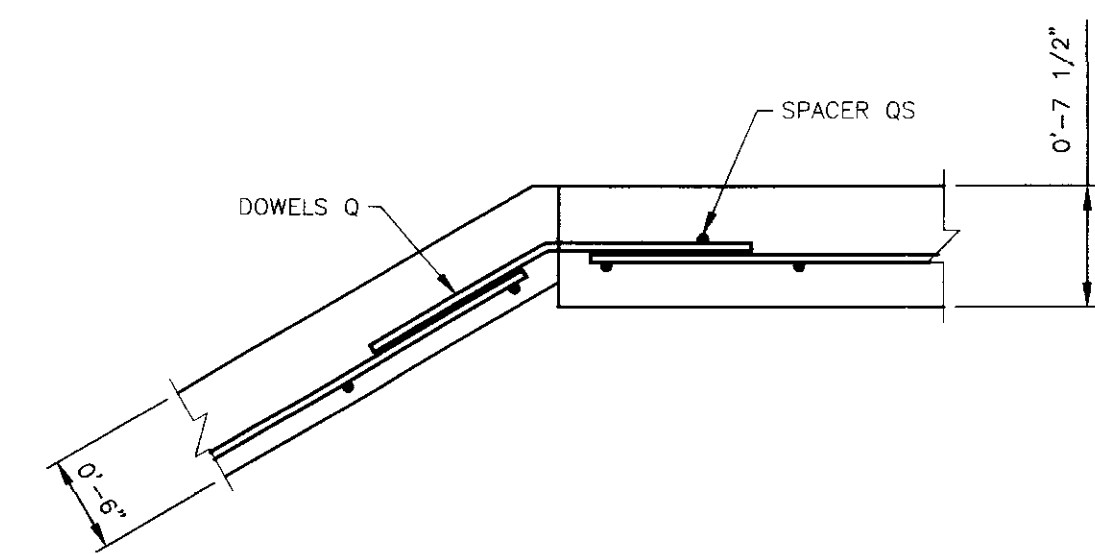


SECTION "B"-"B"
SCALE: 1/2"=1'-0"

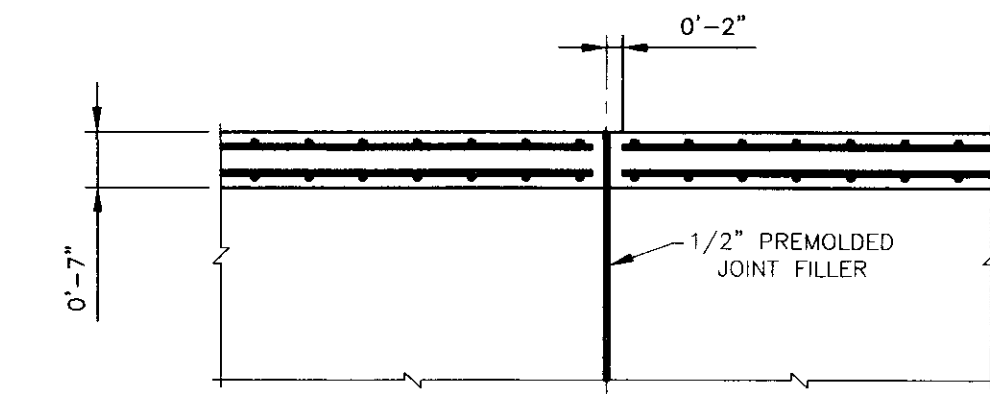
SPACERS AST TIE TO BARS A IN TOP SLAB
SPACERS ASB TIE TO BARS B IN BOTTOM SLAB
SPACERS BS TIE TO BARS B



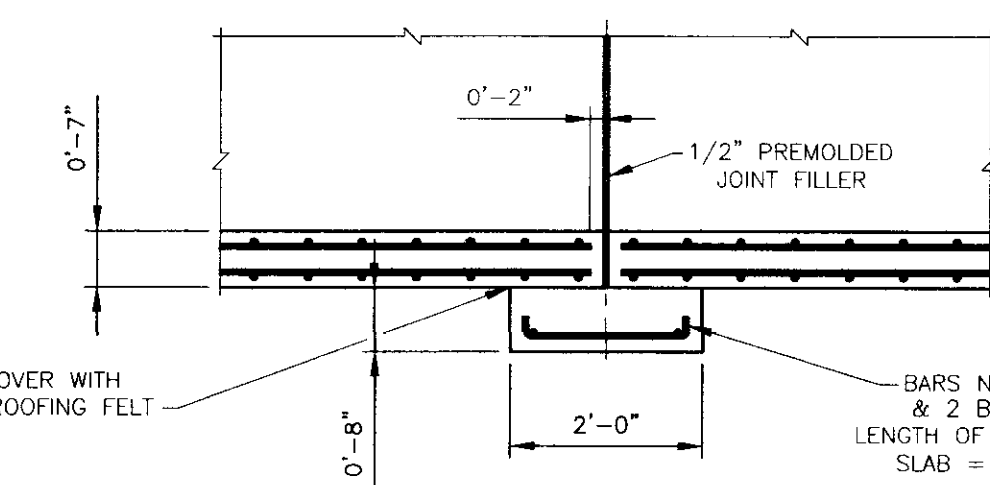
SECTION "C"-"C"
SCALE: 1/2"=1'-0"



PERMISSABLE CONSTRUCTION JOINT AT WING
SCALE: 1"=1'-0"



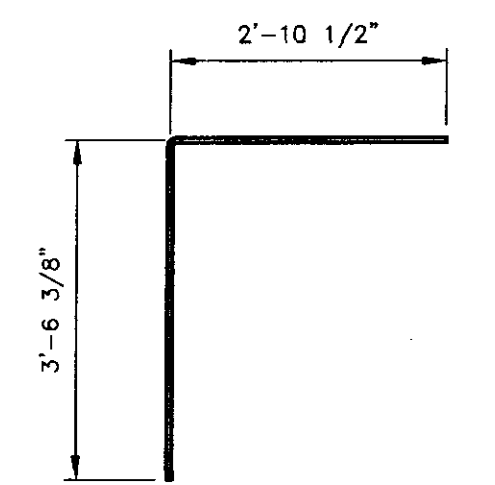
TOP SLAB SIDE WALLS SIMILAR



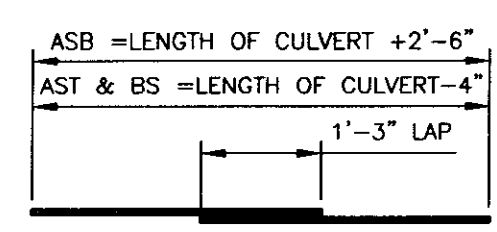
BOTTOM SLAB

TROWEL FINISH & COVER WITH 2 LAYERS OF 15 LB. ROOFING FELT

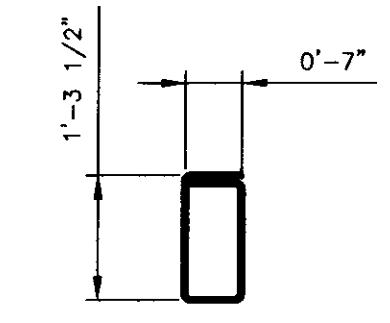
DETAIL OF BARREL JOINT & AUXILIARY SLAB "J"
SCALE: 1/2"=1'-0"



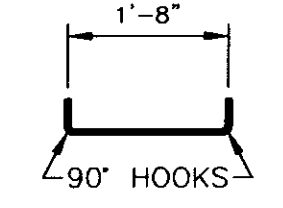
BARS B-#5



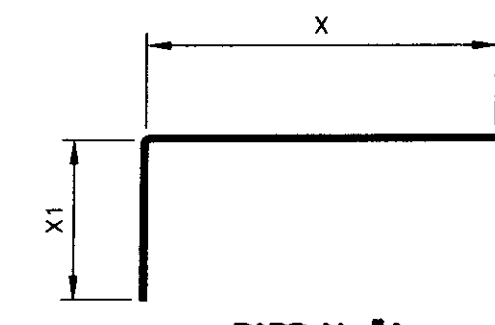
BARS AST, ASB & BS-#4



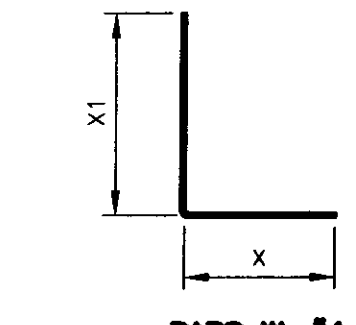
BARS K-#4



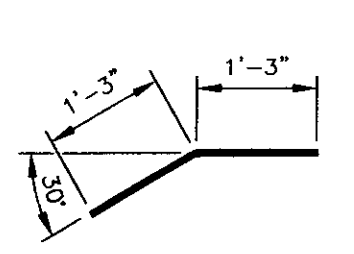
BARS N-#4



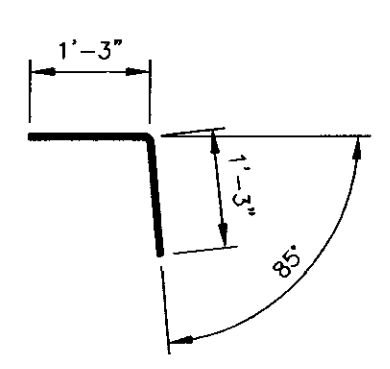
BARS V-#4



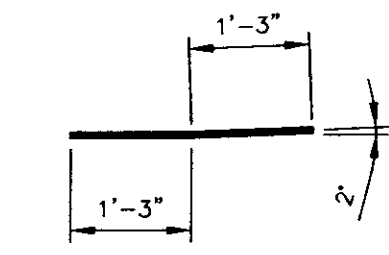
BARS W-#4



DOWELS Q30-#4



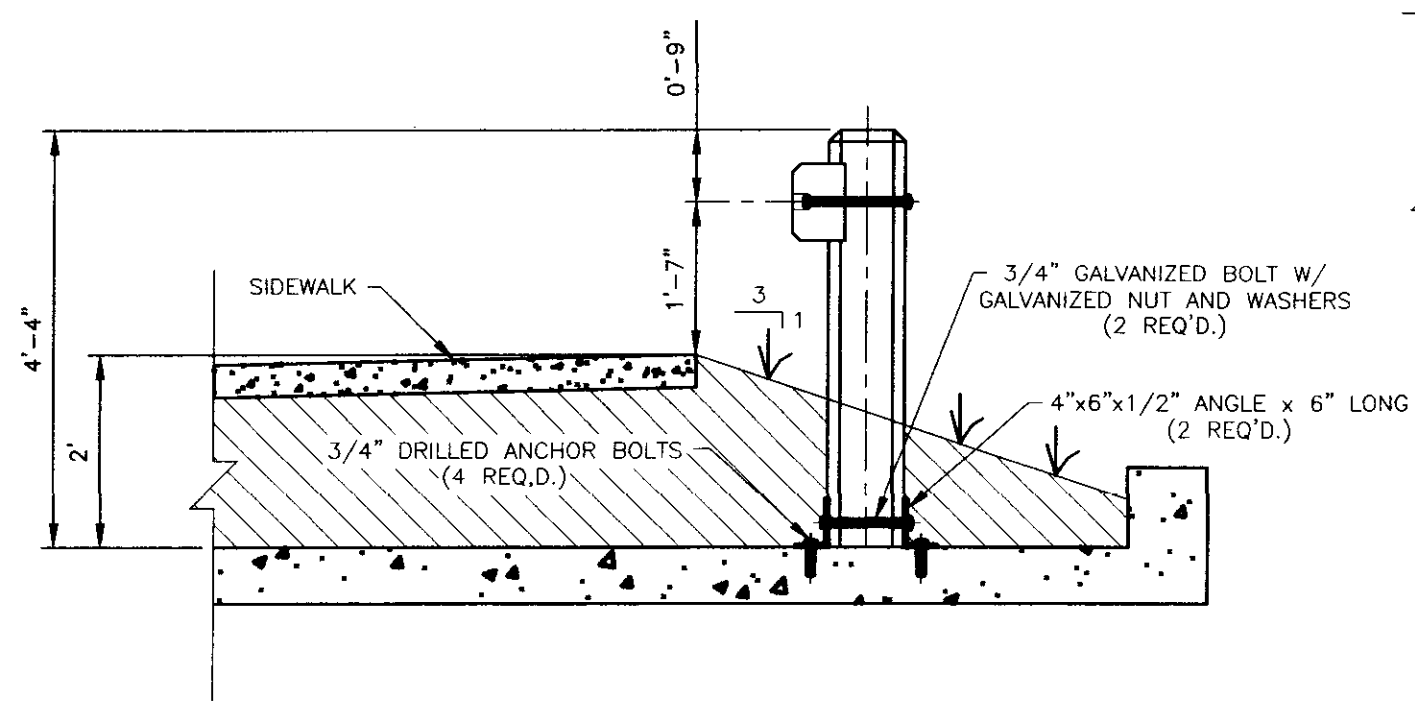
DOWELS Q85-#4



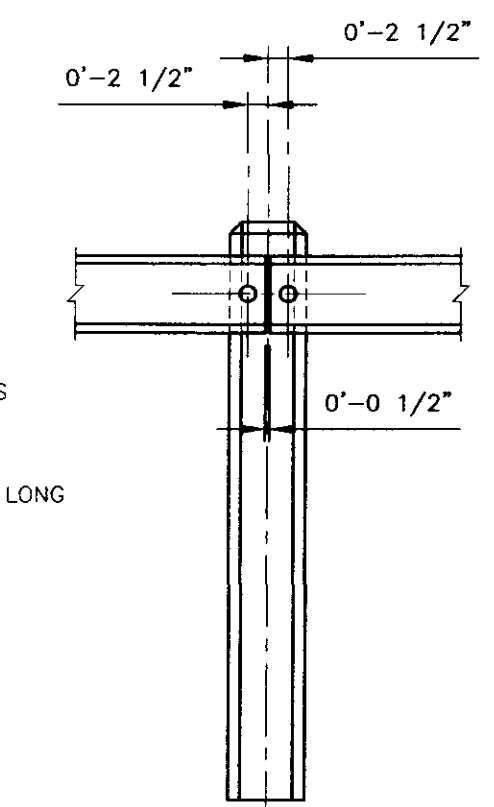
DOWELS Q2-#4

BAR BENDING DETAILS
SCALE: 1/2"=1'-0"

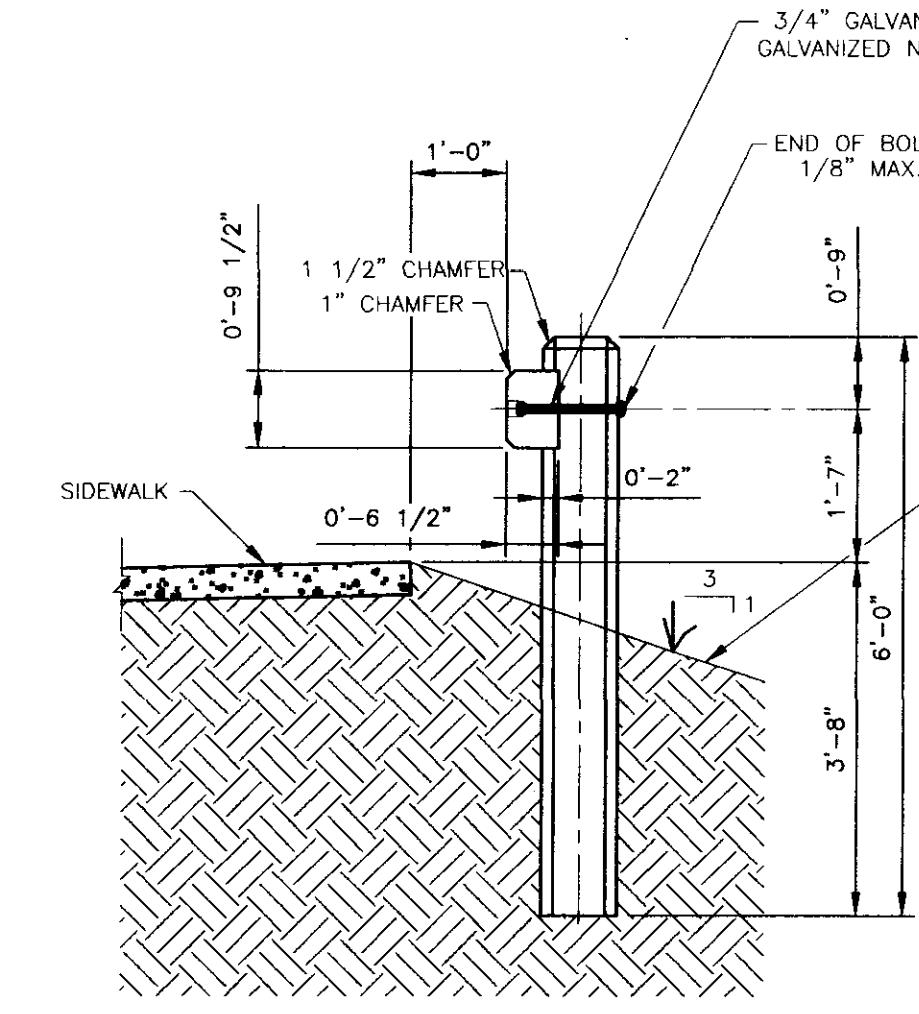
NOTE: DIMENSIONS ARE OUT TO OUT.



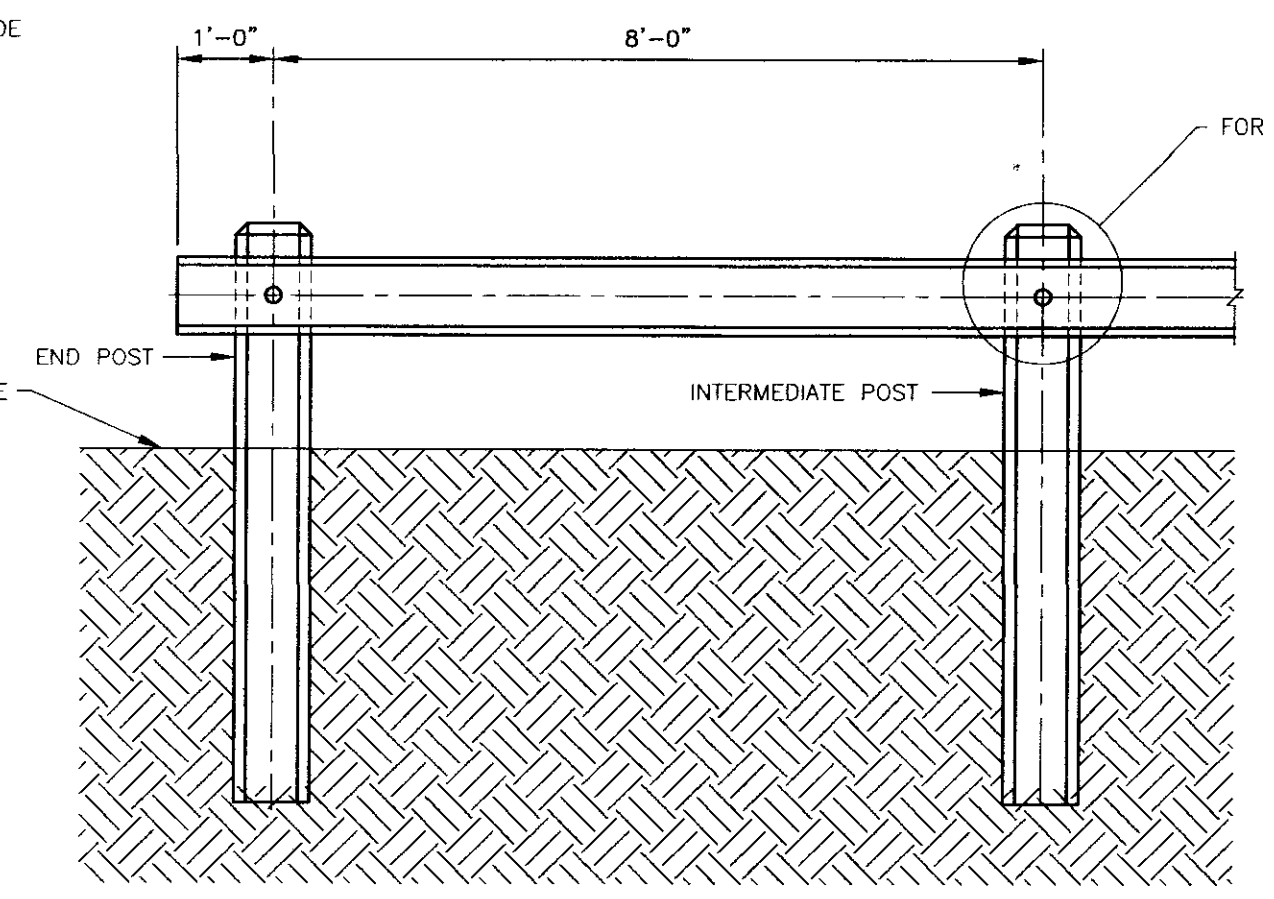
END VIEW AT CONNECTION TO CONCRETE CULVERT



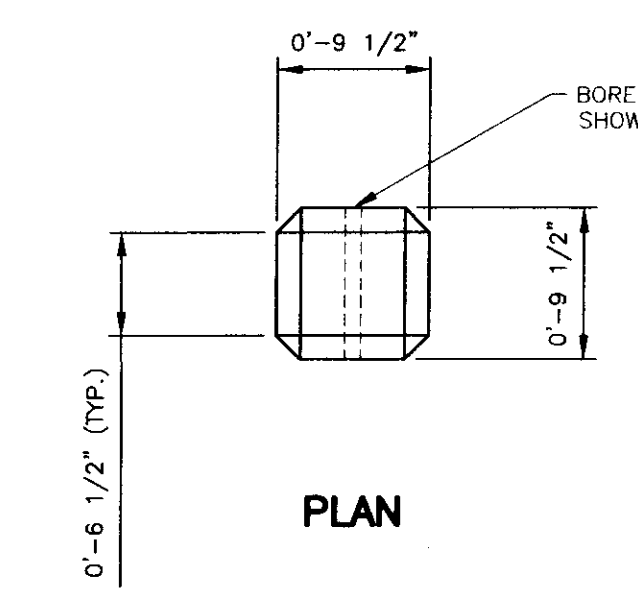
ELEVATION AT RAIL JOINT



END VIEW



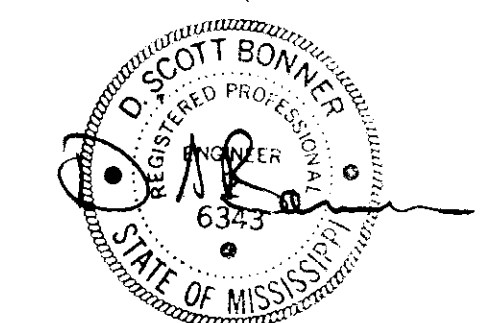
FRONT VIEW



TYPICAL TIMBER POST
SCALE: 1"=1'-0"

TIMBER GUIDE RAILING DETAIL
SCALE: 1/2"=1'-0"

NOTE: TIMBER RAILS AND POSTS SHALL BE CCA TREATED TO 0.40 LBS./CUBIC FOOT.



RECORD DRAWING
06-24-2003

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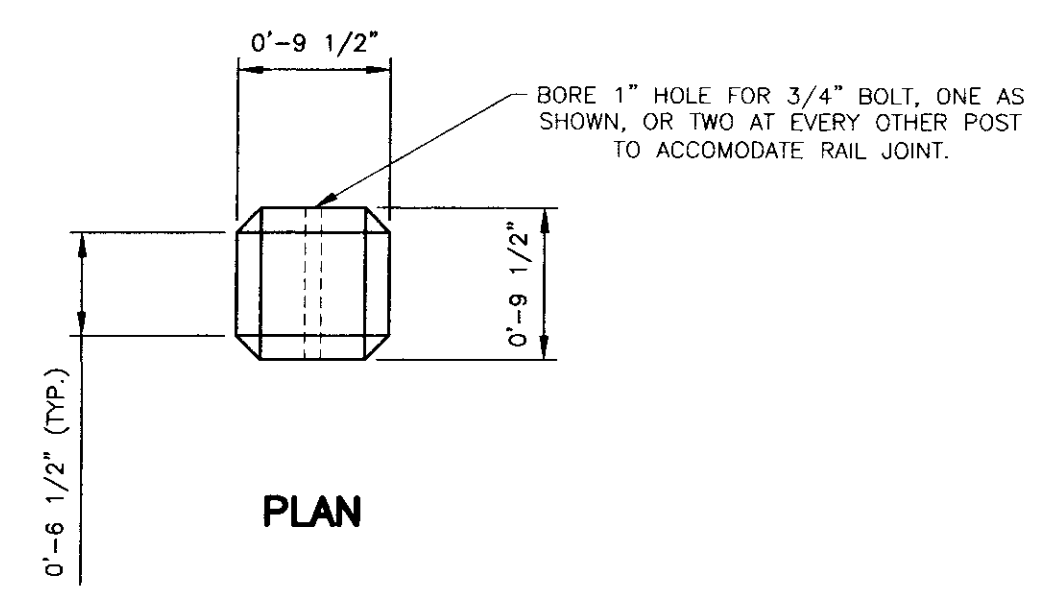
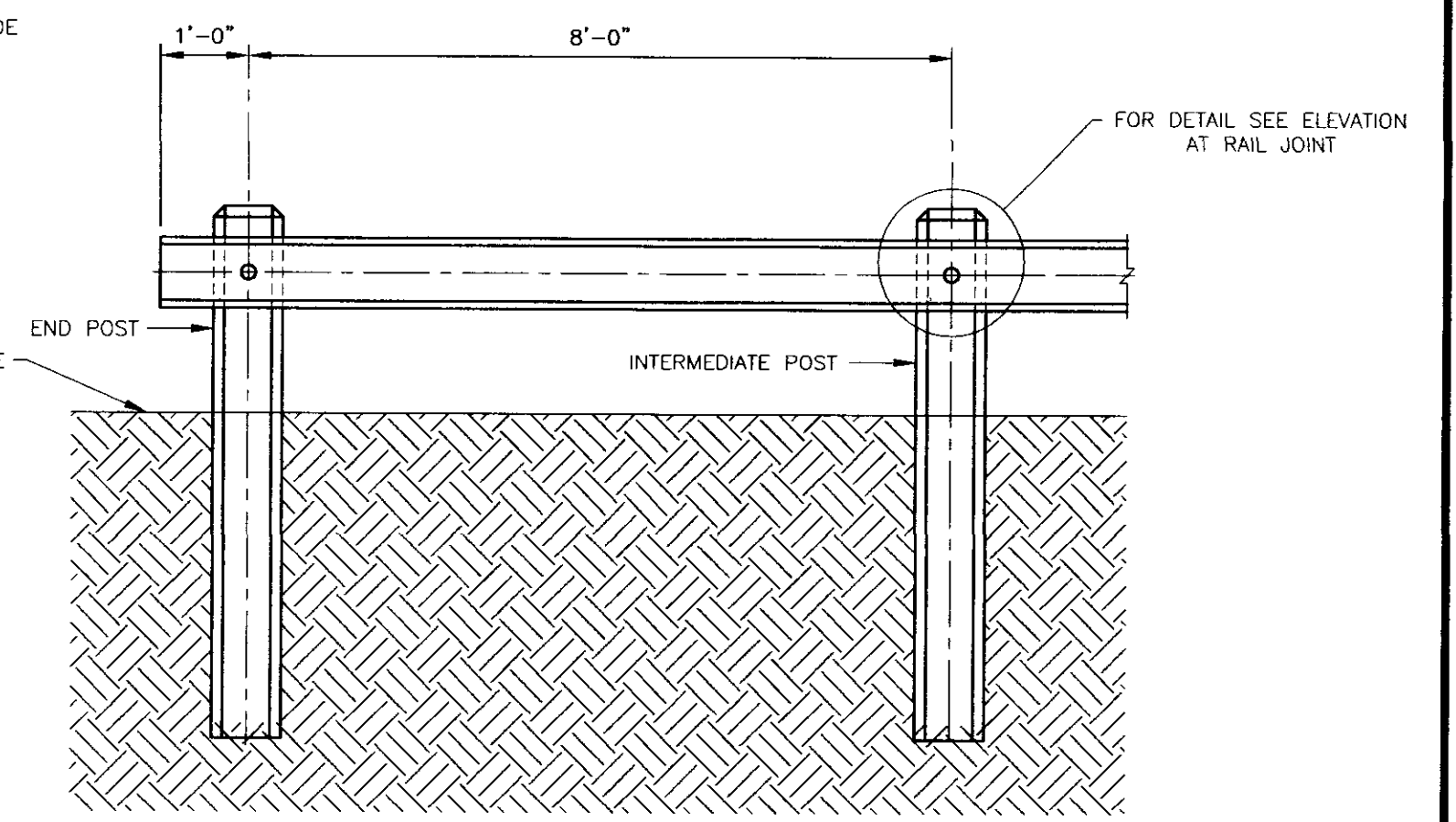
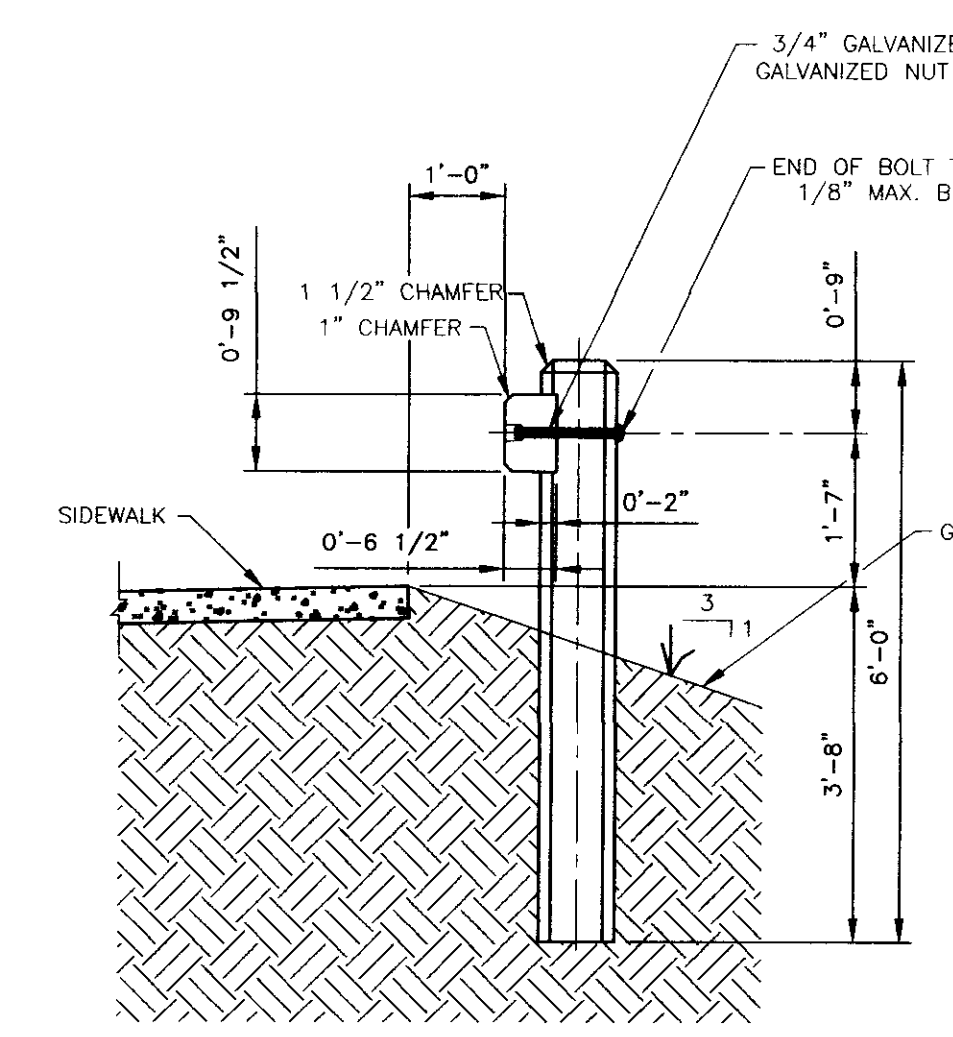
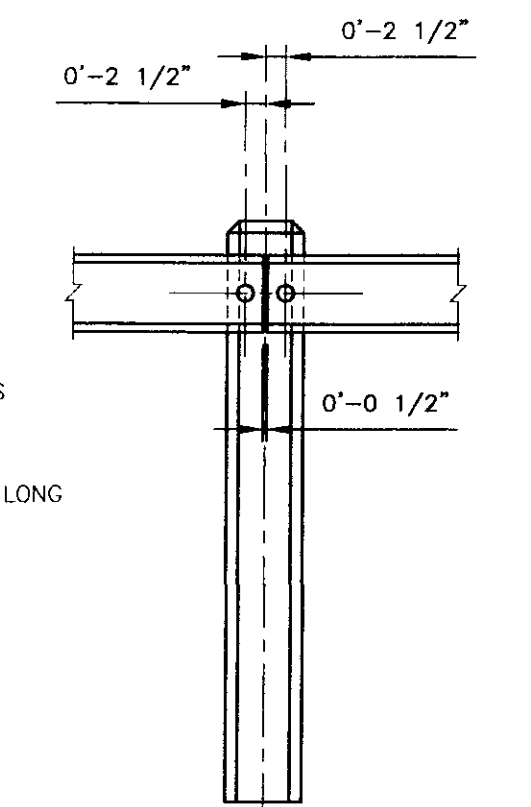
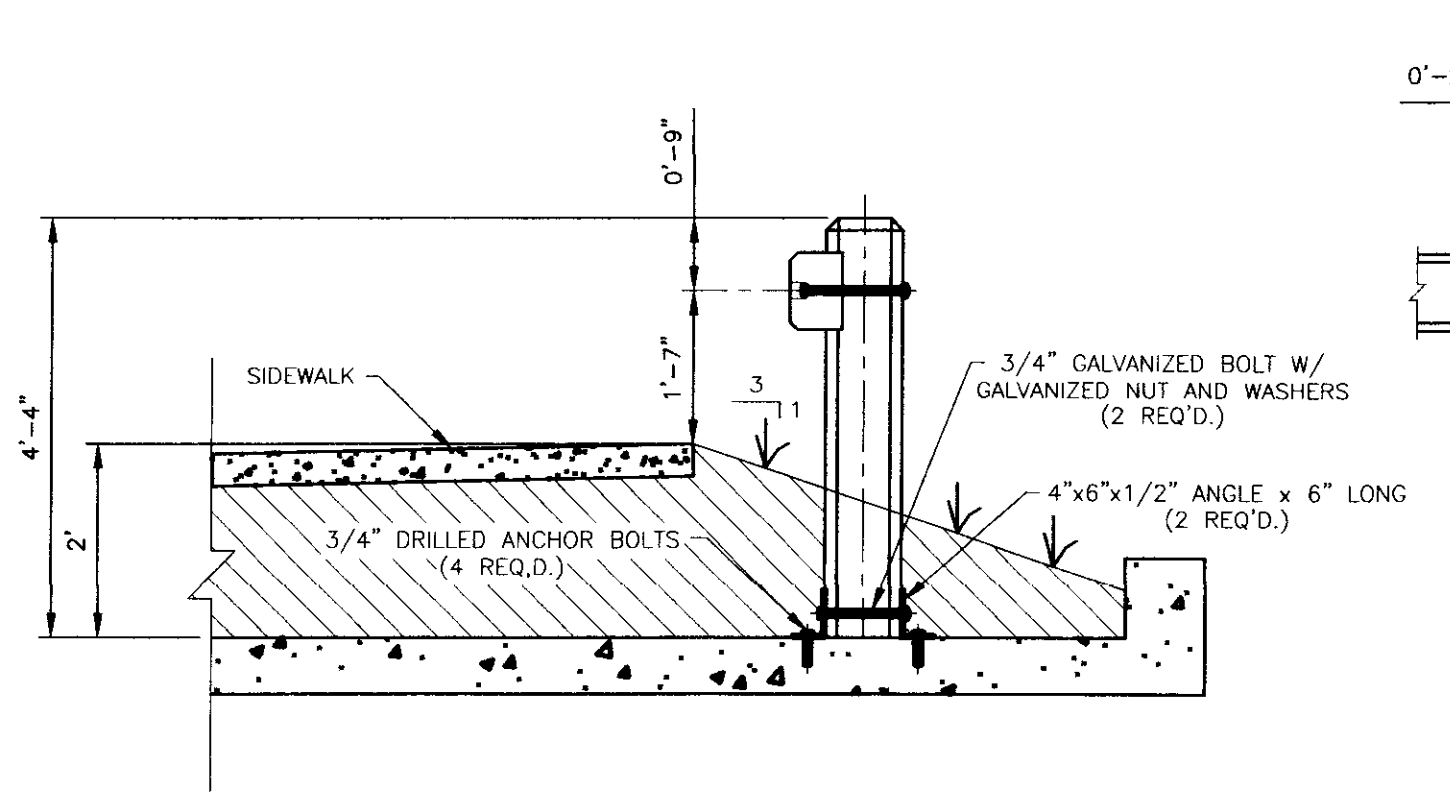
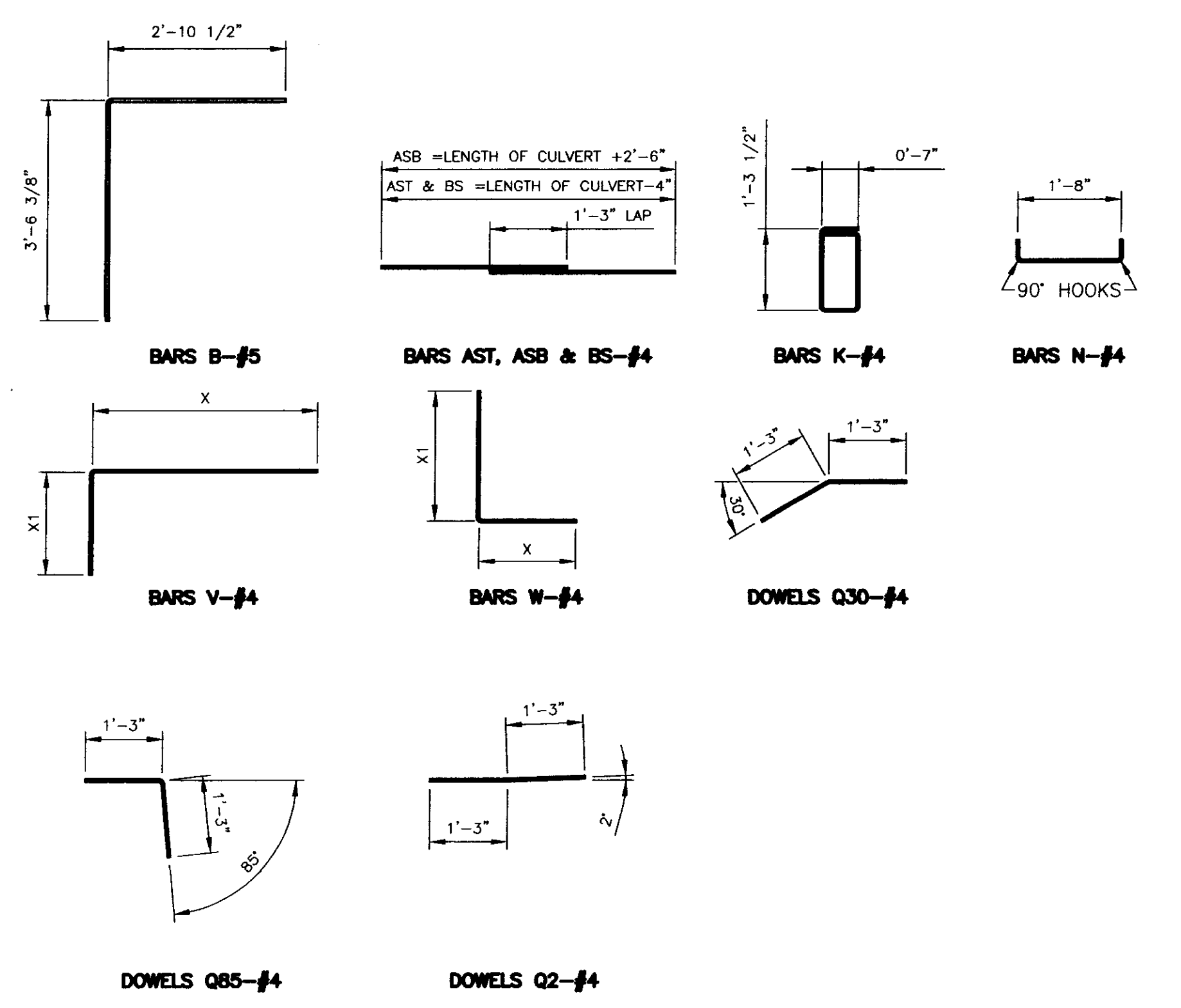
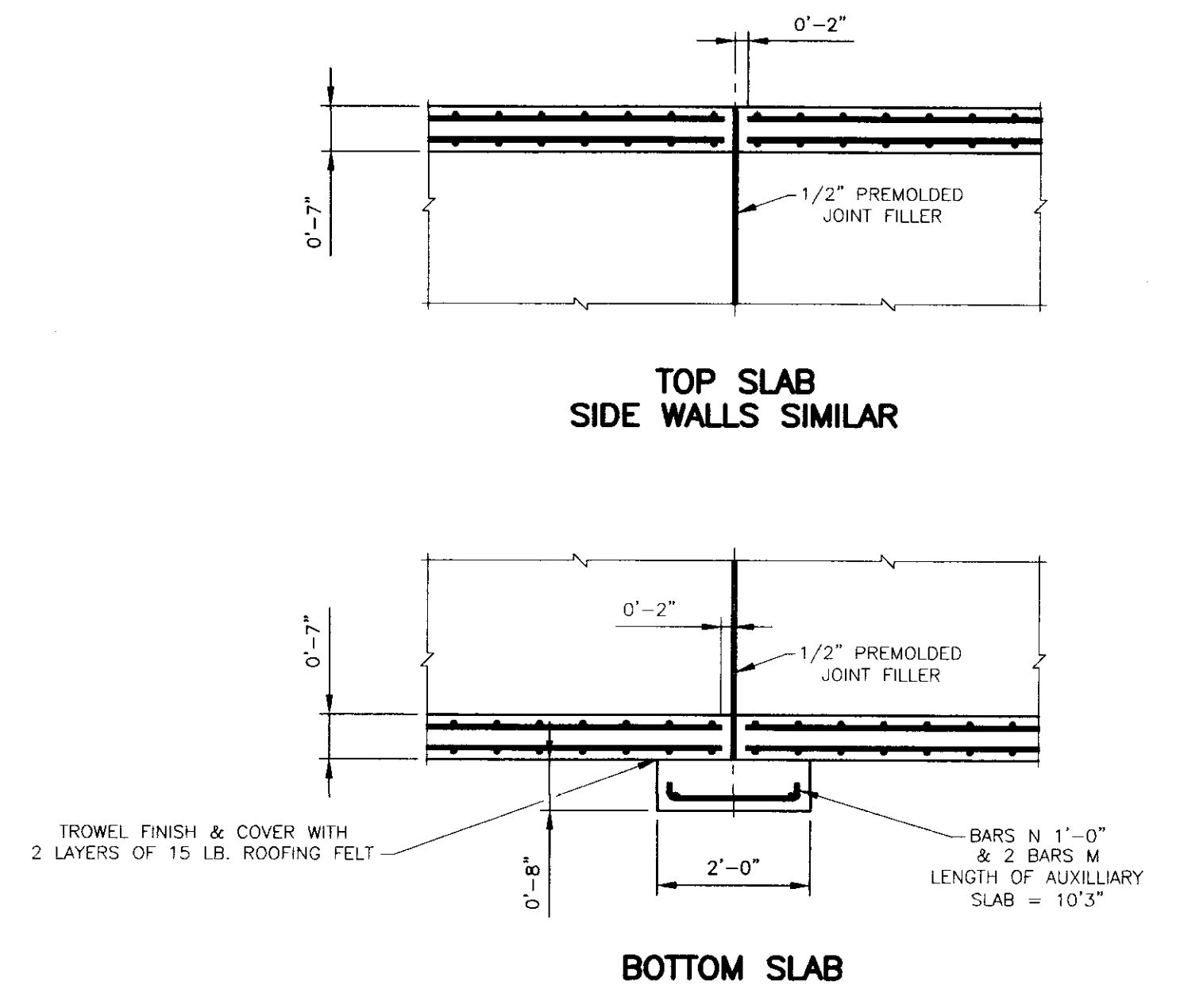
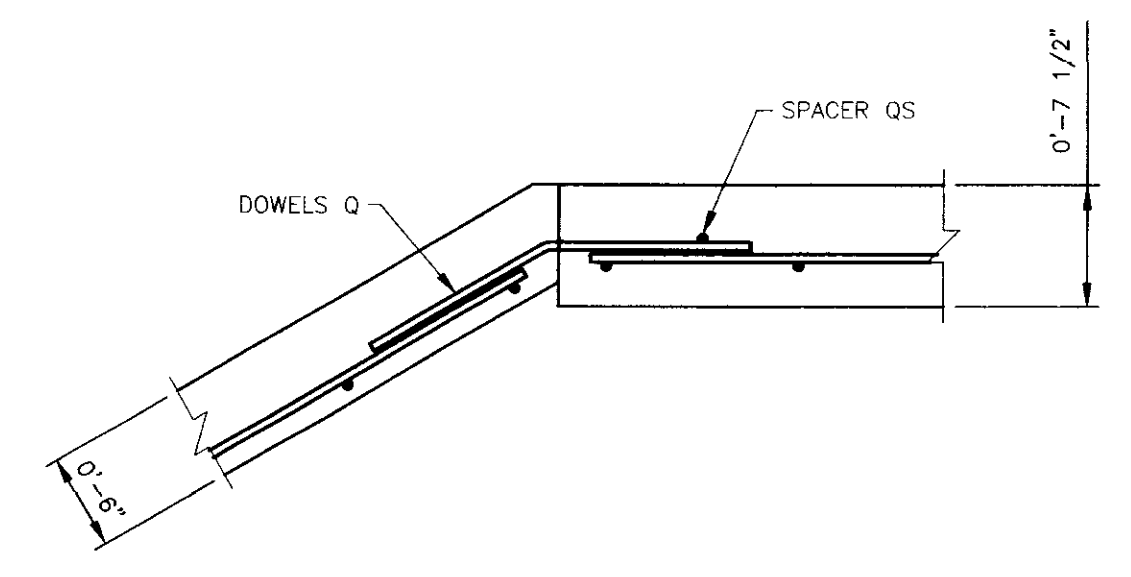
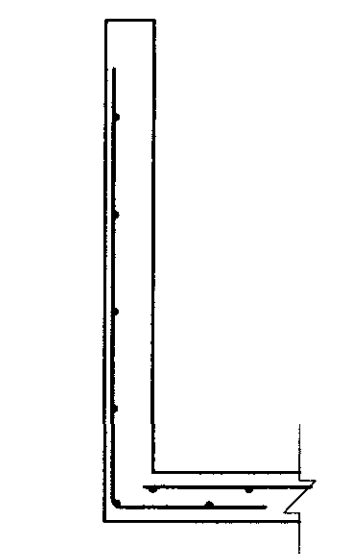
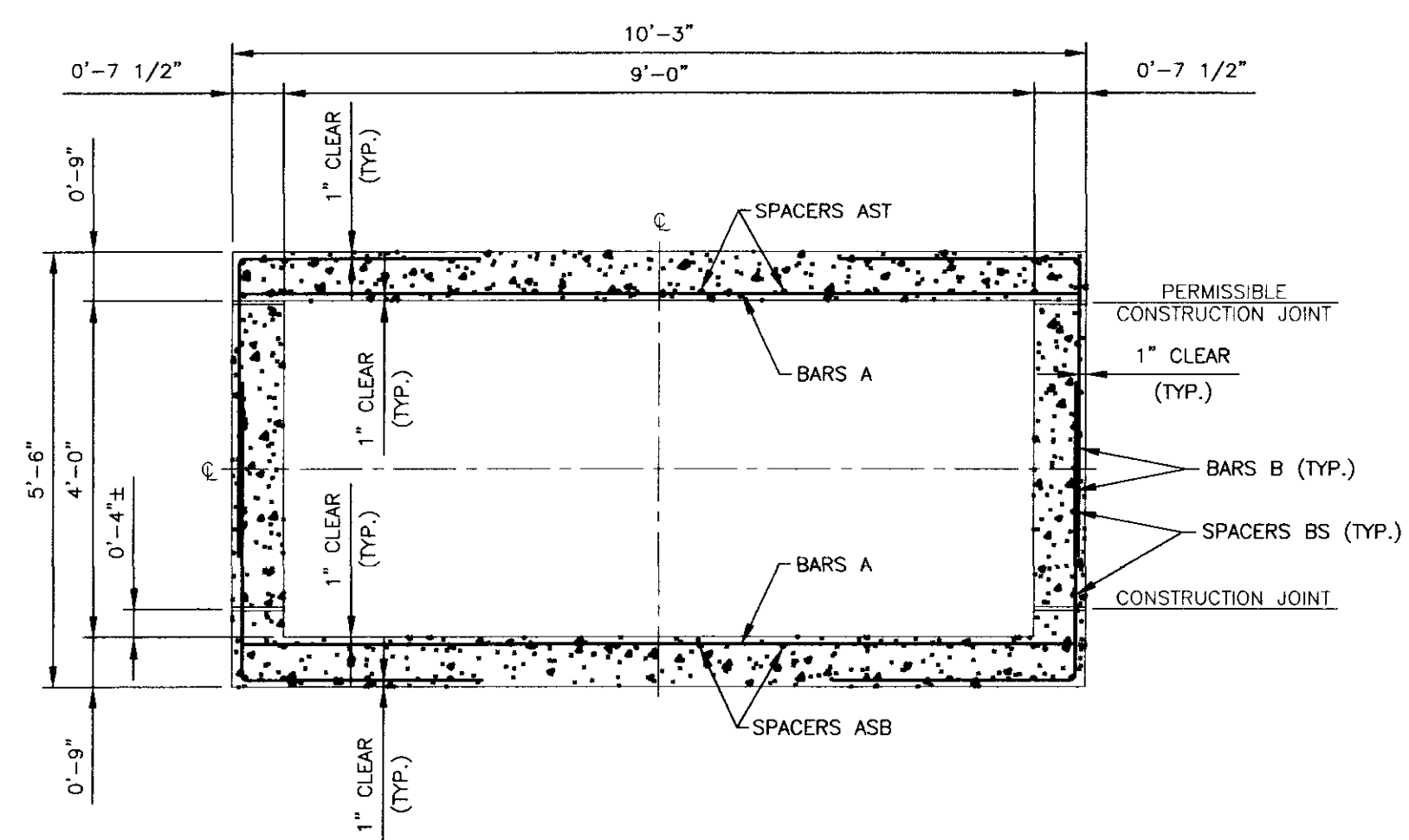
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TOWNSHIP AT COLONY PARK
RIDGELAND, MS

REVISIONS		
NO.	DATE	BY
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6		

SCALE: AS NOTED
DATE: 07/16/02
APPROVED BY: JAE
DRAWN BY: KSP
CHECKED BY: JAE

SHEET TITLE: **NORTH LAKE CONTROL STRUCTURE SECTIONS & DETAILS**
FILE NAME: M:\Kerith_Culvert_Details\Culvert-Steel-Details.dwg
SHEET NO: **28**



TIMBER GUIDE RAILING DETAIL
SCALE: 1/2"=1'-0"

NOTE: TIMBER RAILS AND POSTS SHALL BE CCA TREATED TO 0.40 LBS./CUBIC FOOT.



RECORD DRAWING
06-24-2003

DCI DIVERSIFIED CONSULTANTS, INC.
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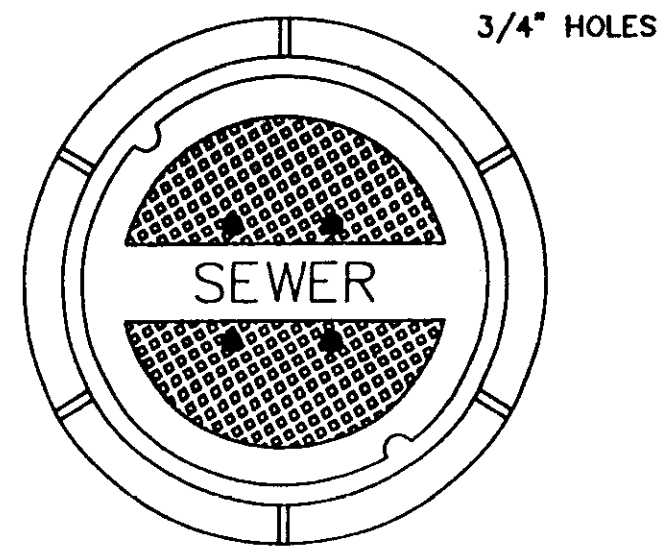
TOWNSHIP AT COLONY PARK
RIDGELAND, MS

REVISIONS		
NO.	DATE	BY
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SCALE: AS NOTED
DATE: 07/16/02
APPROVED BY: JAE
DRAWN BY: KSP
CHECKED BY: JAE

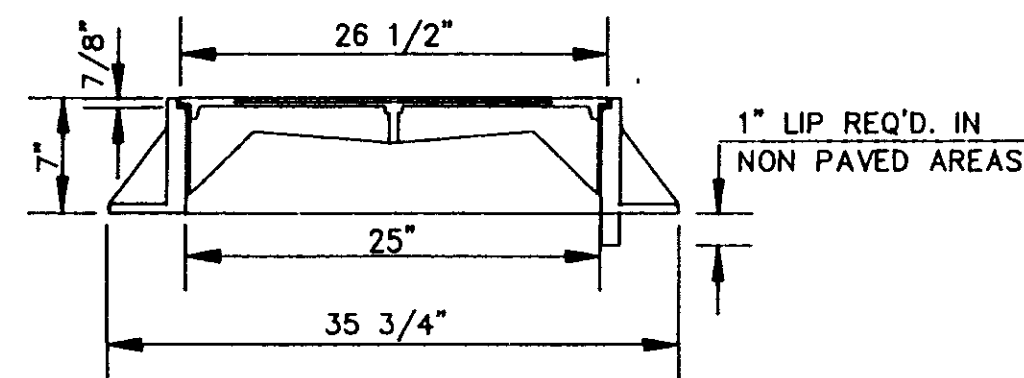
SHEET TITLE: **SOUTH LAKE CONTROL STRUCTURE SECTIONS & DETAILS**

FILE NAME: M:\Kerith\Culvert Details\South-Culvert-Steel-Details.dwg SHEET NO: **29**

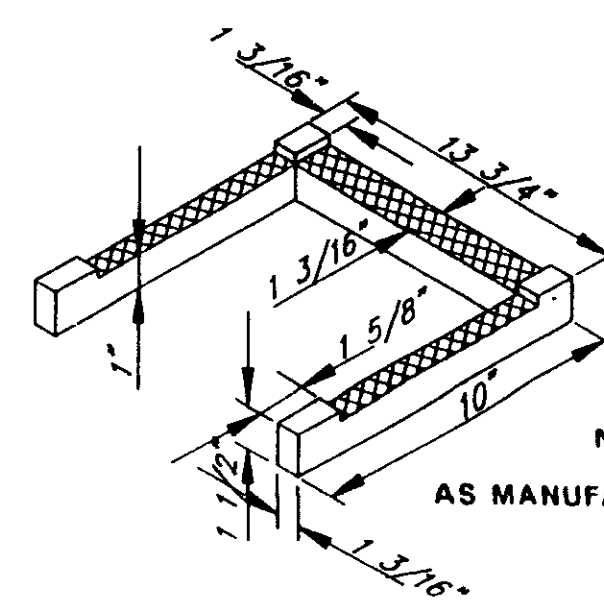


TOP PLAN OF COVER

FRAME & COVER WEIGHT 420 LBS.



SECTION

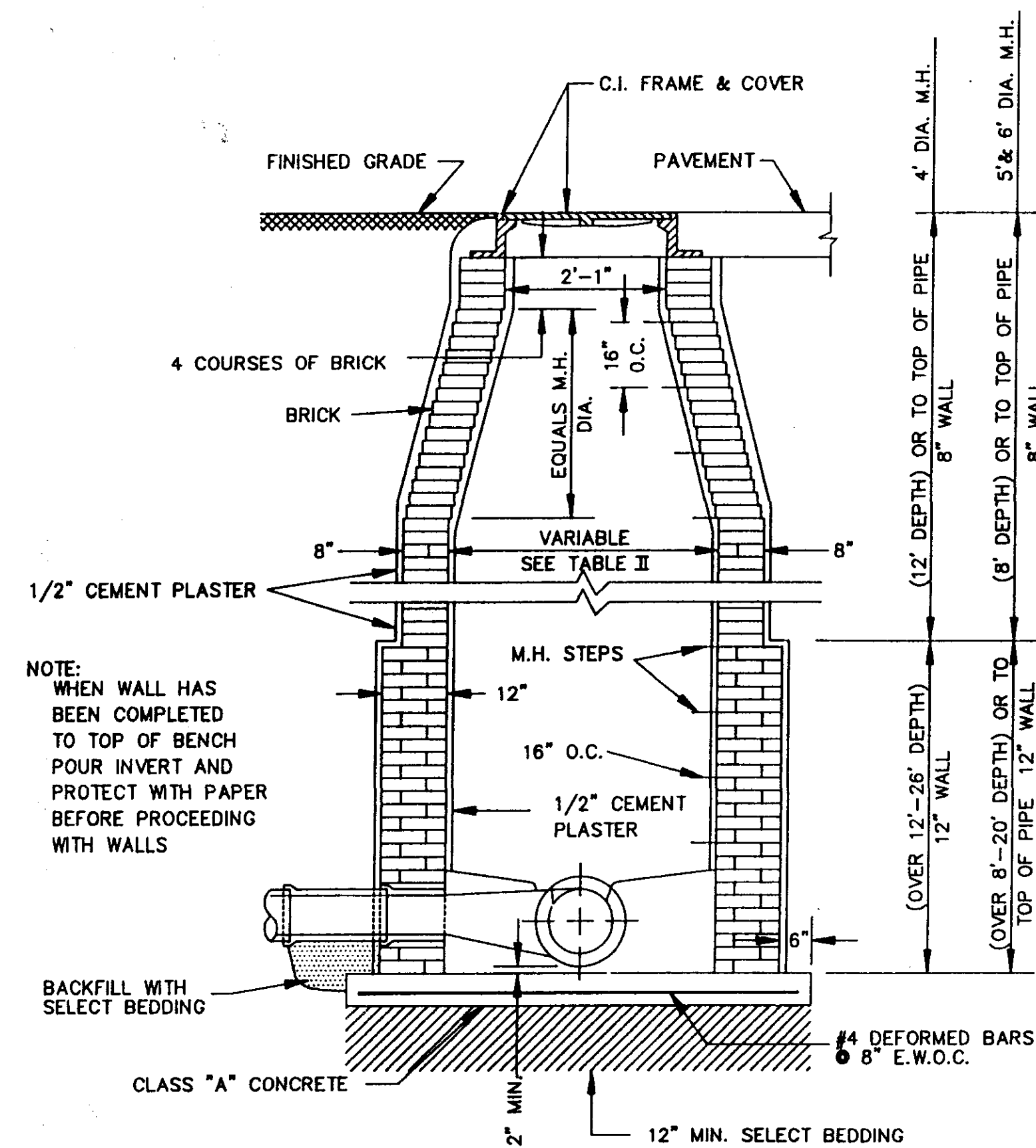


DETAIL 'B'

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

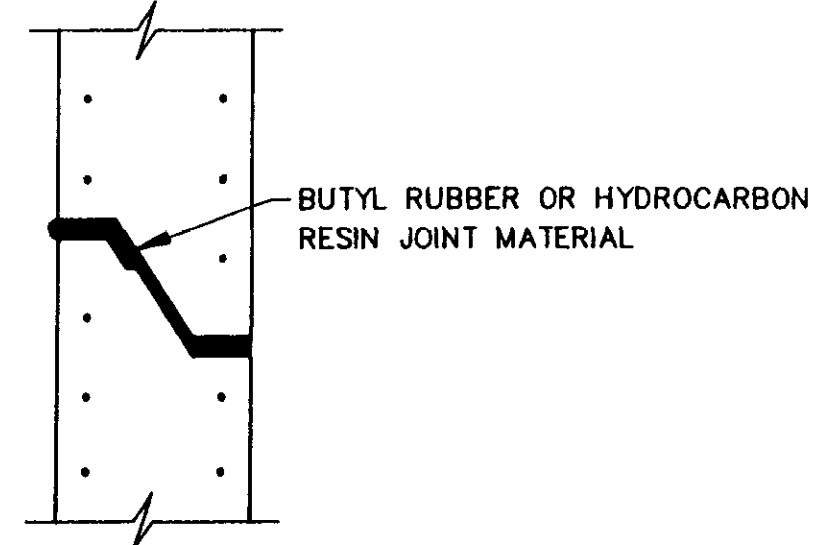
STANDARD MANHOLE FRAME AND COVER

N.T.S.



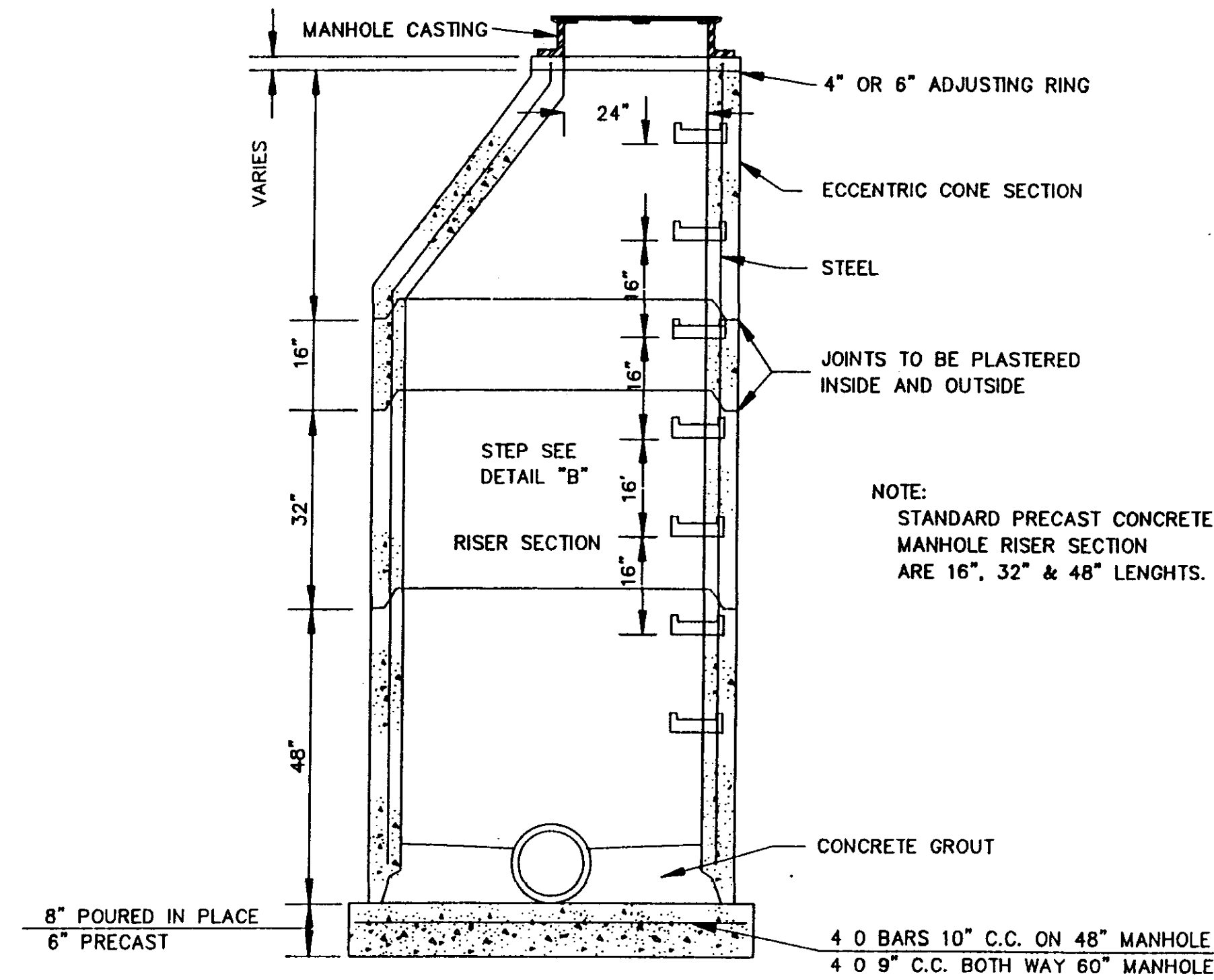
STANDARD BRICK MANHOLE

N.T.S.



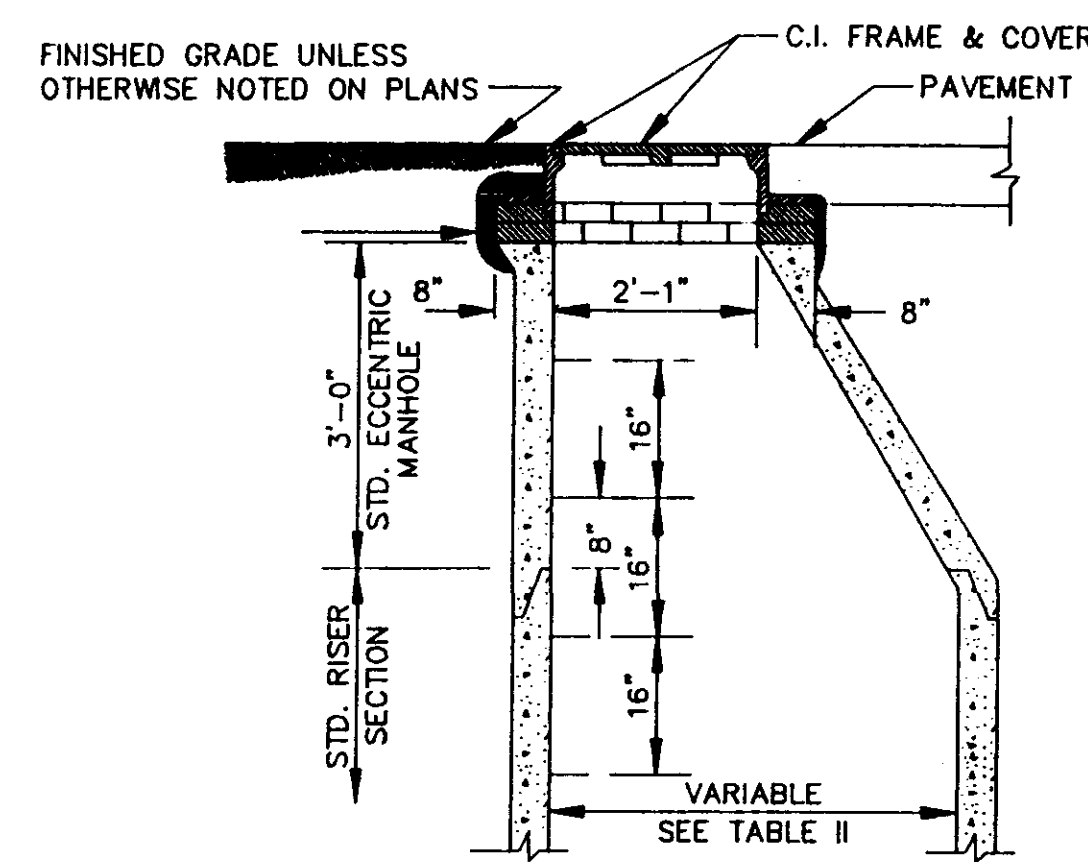
TYPICAL PRECAST CONCRETE
MANHOLE JOINT DETAIL

N.T.S.



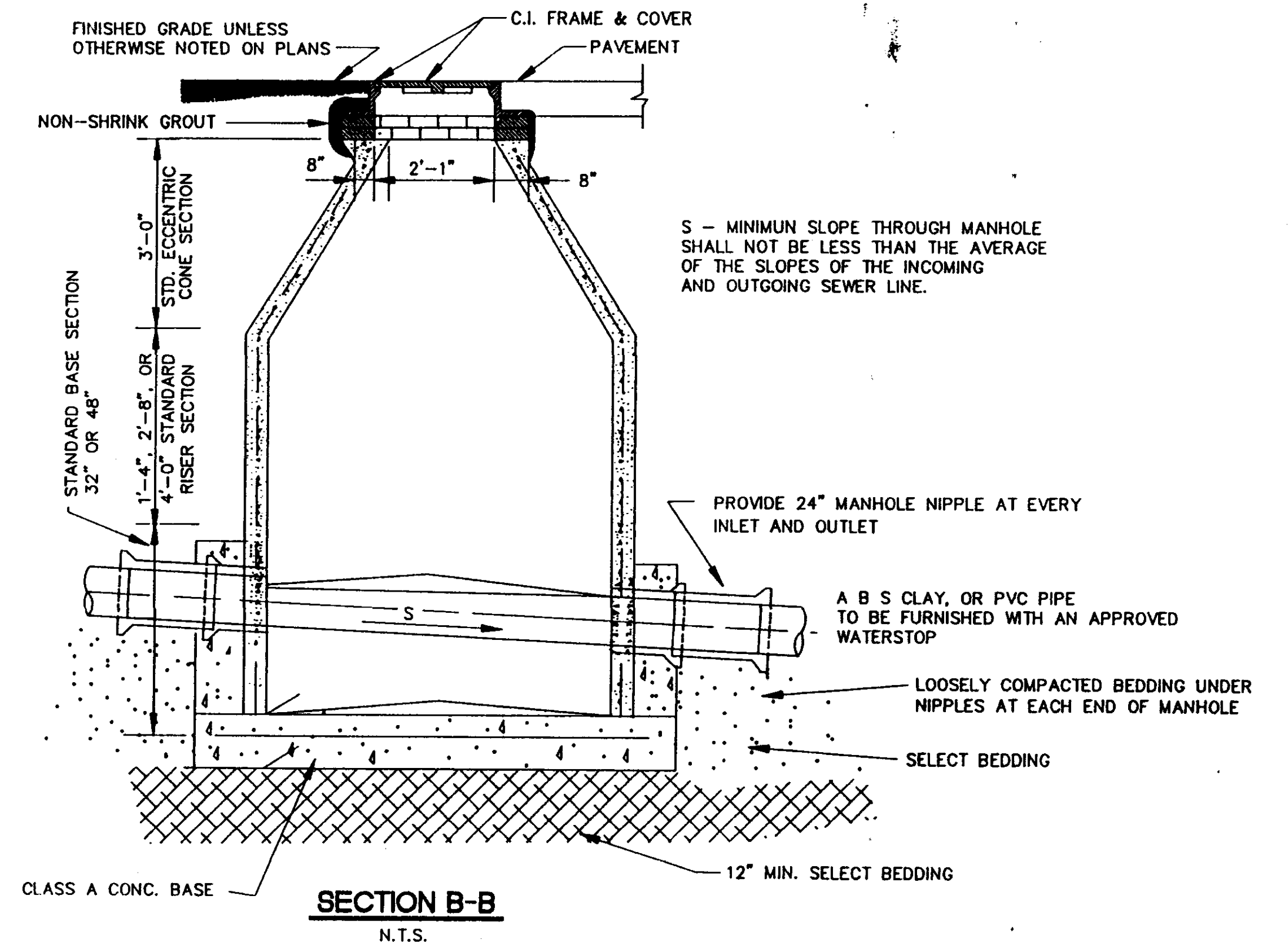
SECTION OF PRECAST CONCRETE MANHOLE

N.T.S.



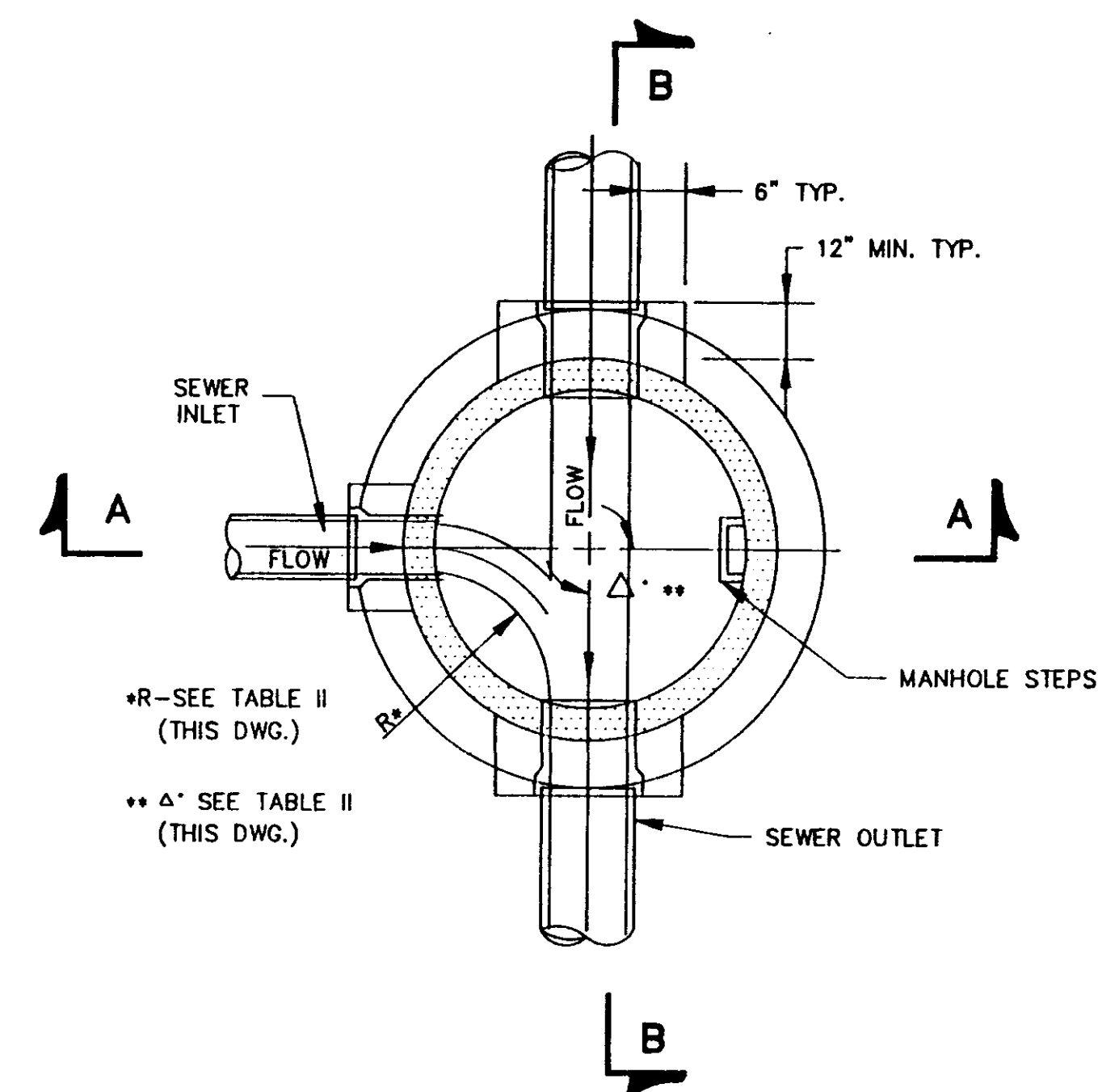
**STANDARD ECCENTRIC CONE
FOR ALL DIAMETER MANHOLES**

N.T.S.



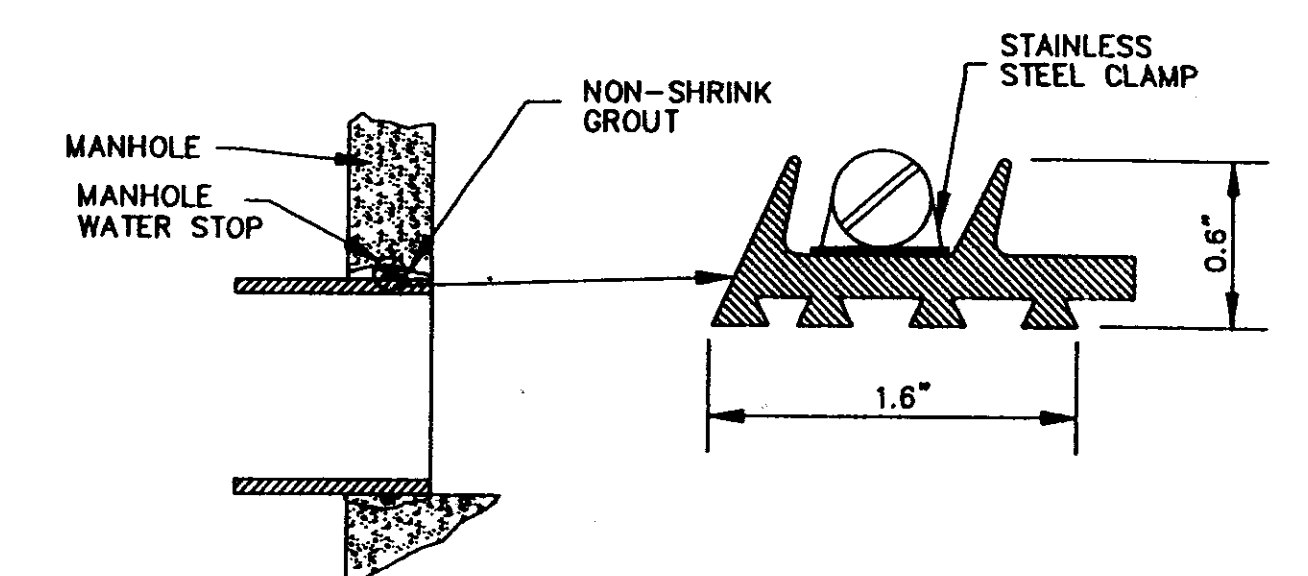
SECTION B-B

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.

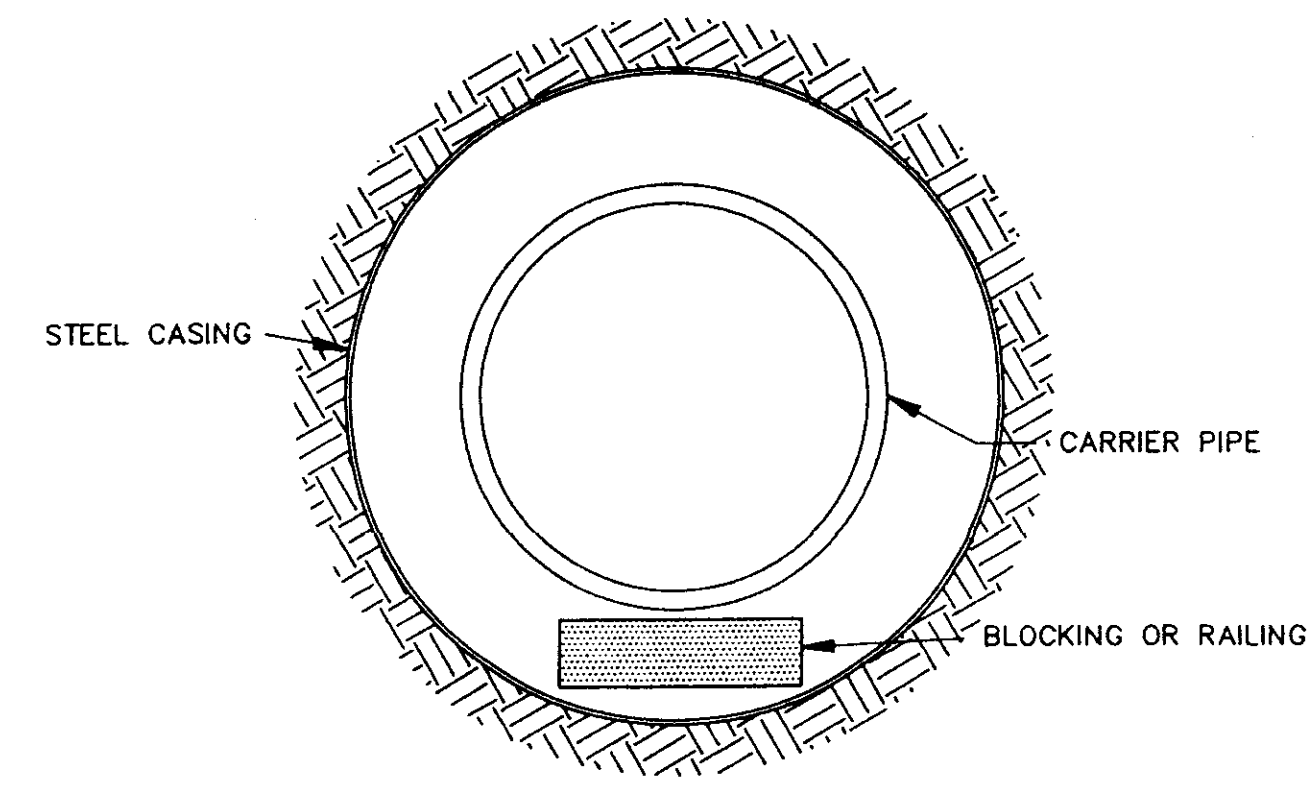
STANDARD DETAILS

DSGN:
DRWN:
CHKD:
SCALE:

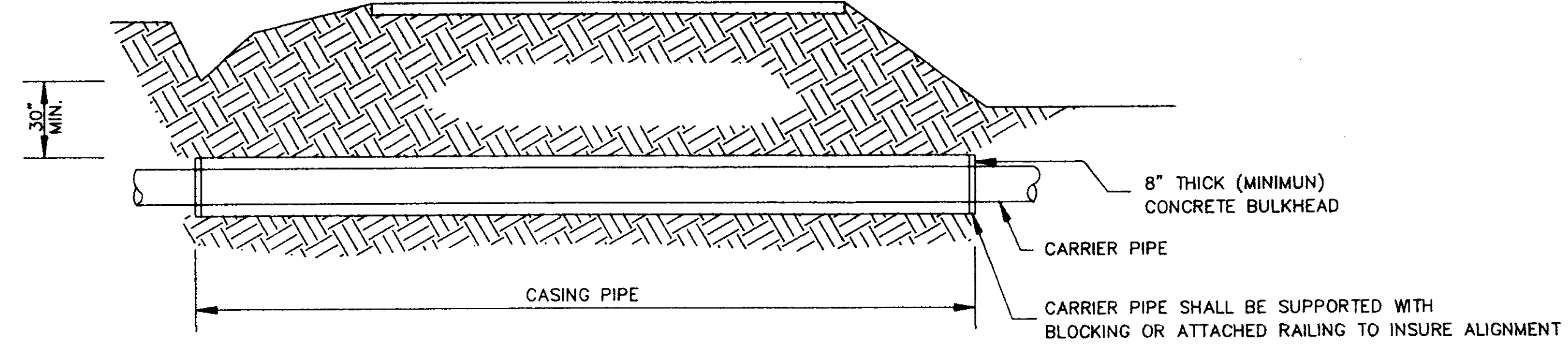


DRAWING NO.

30



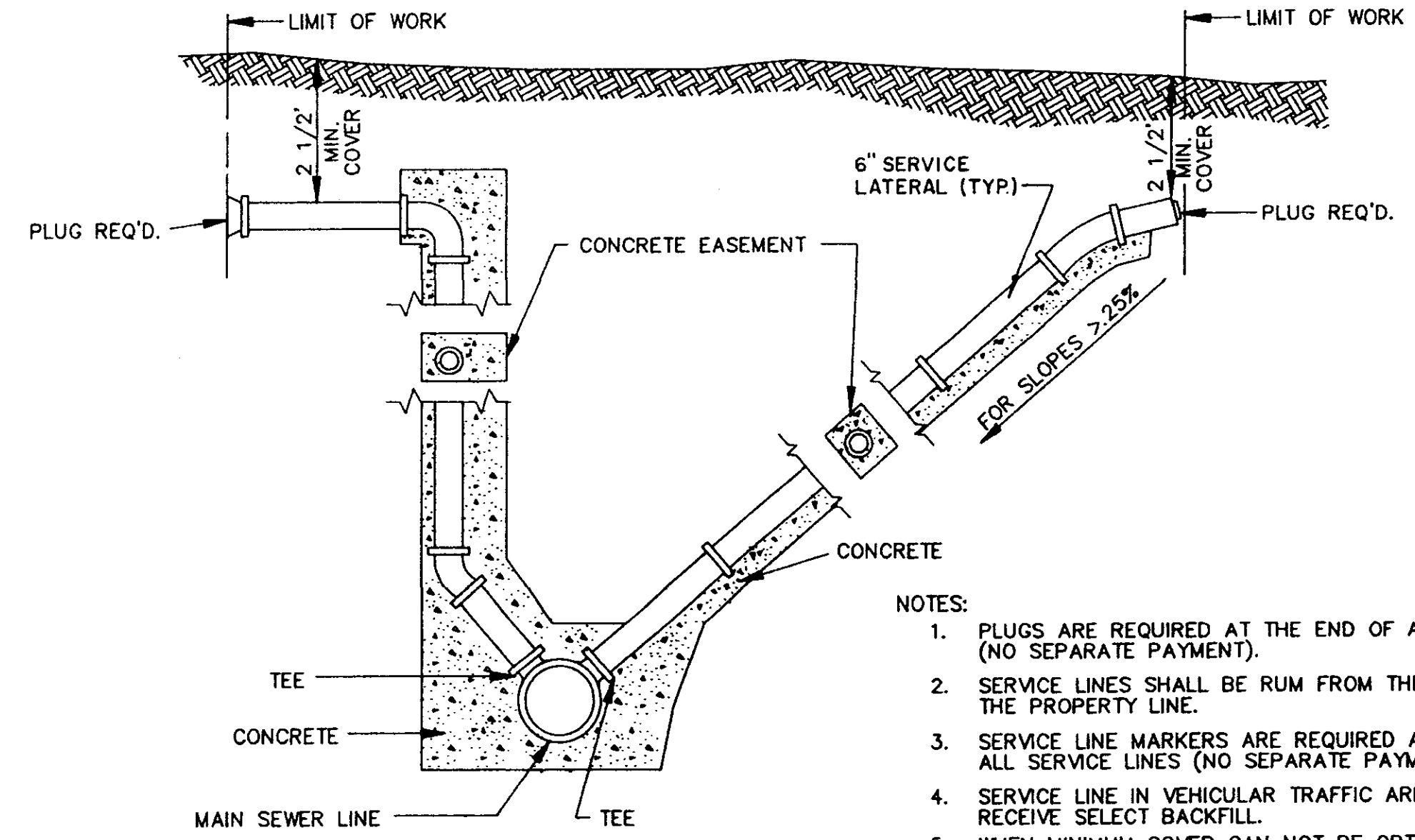
BORE SECTION
N.T.S.



TYPICAL BORE SECTION
N.T.S.

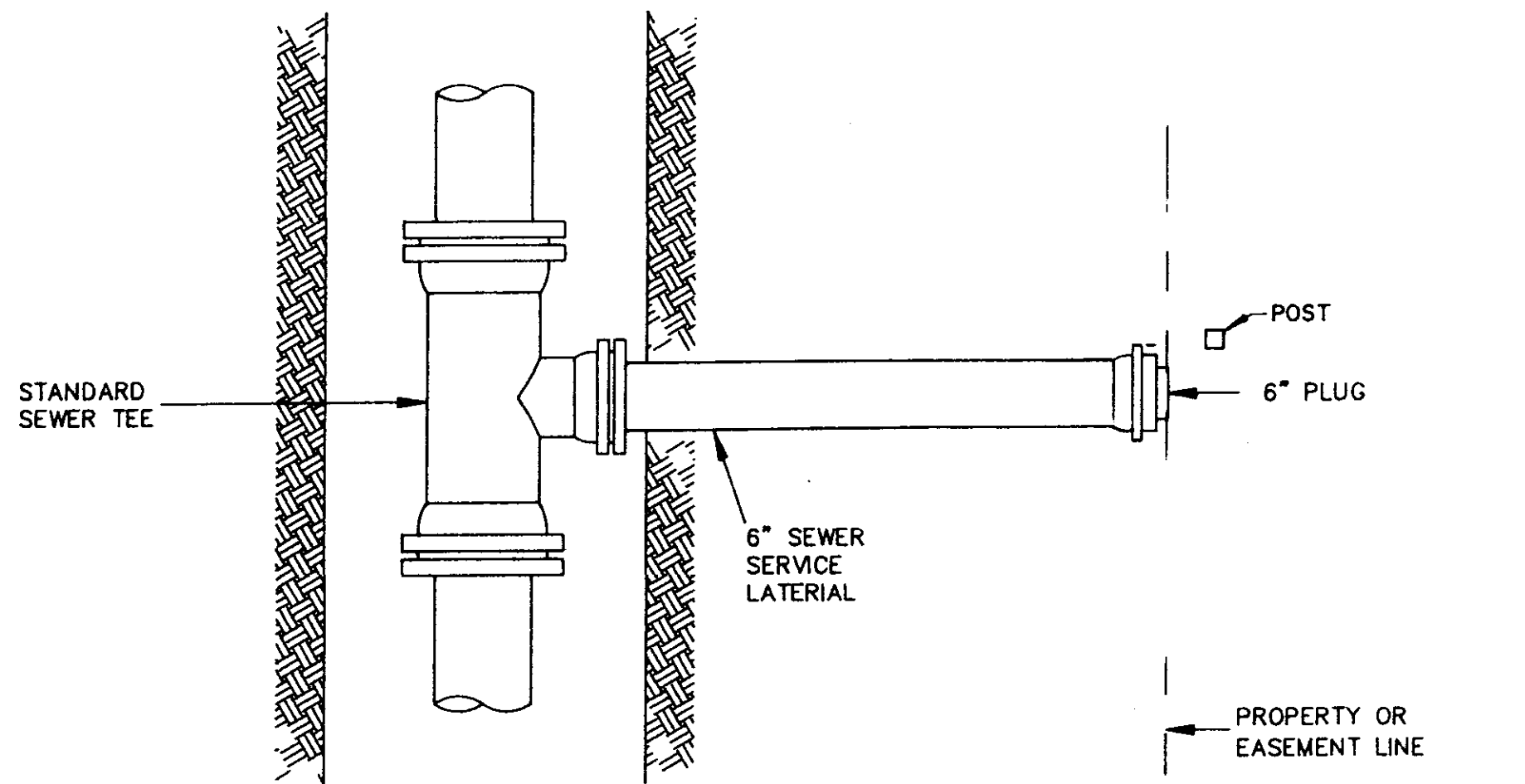
TABLE II GOVERNING DIMENSIONS FOR MANHOLES			
PIPE SIZE	Δ ANGLE	BASE DIAMETER **	"R" *
8" THRU 12"	0° TO 90°	4'	1'- 6"
15"	0° TO 60°	4'	1'- 10"
15"	60° TO 90°	4'	1'- 10"
18"	0° TO 60°	4'	2'- 3"
18"	60° TO 90°	4'	1'- 10"
21"	0° TO 60°	4'	2'- 7"
21"	60° TO 90°	5'	2'- 4"
24"	0° TO 45°	4'	3'- 0"
24"	45°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

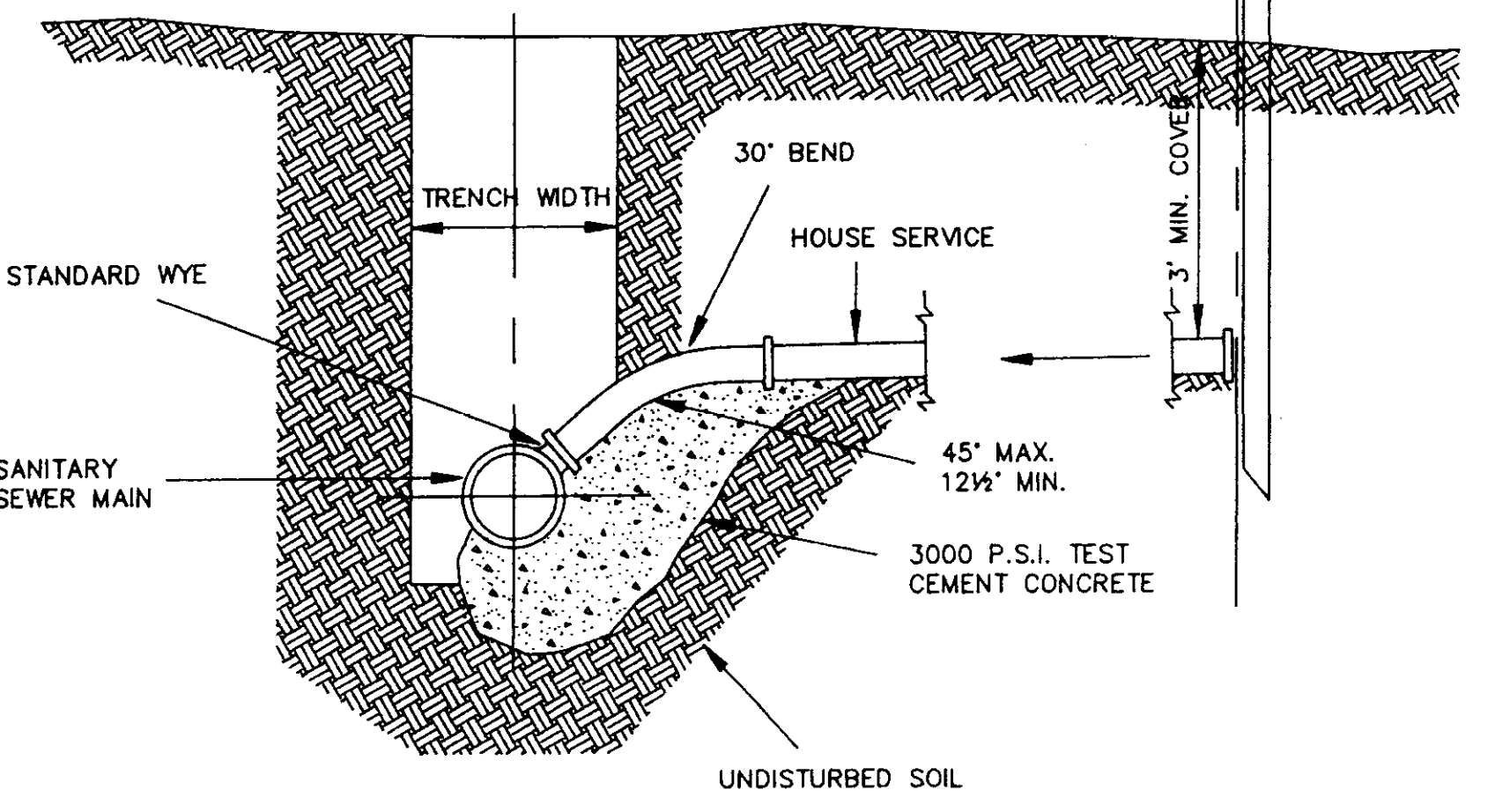


- NOTES:
1. PLUGS ARE REQUIRED AT THE END OF ALL SERVICE LINES (NO SEPARATE PAYMENT).
 2. SERVICE LINES SHALL BE RUM FROM THE SEWER LINES TO THE PROPERTY LINE.
 3. SERVICE LINE MARKERS ARE REQUIRED AT THE END OF ALL SERVICE LINES (NO SEPARATE PAYMENT).
 4. SERVICE LINE IN VEHICULAR TRAFFIC AREA SHALL 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.

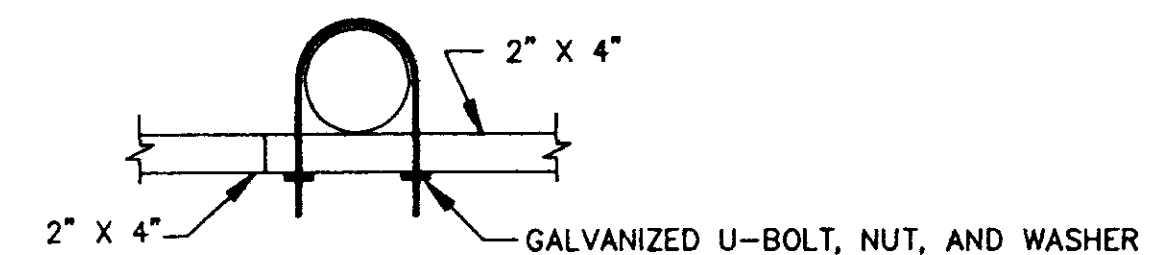


PLAN

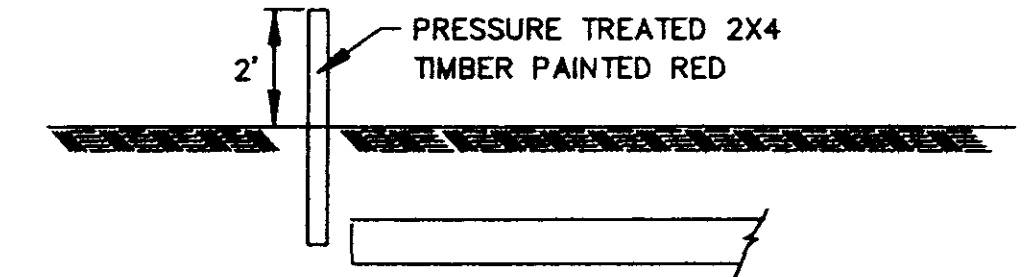


ELEVATION

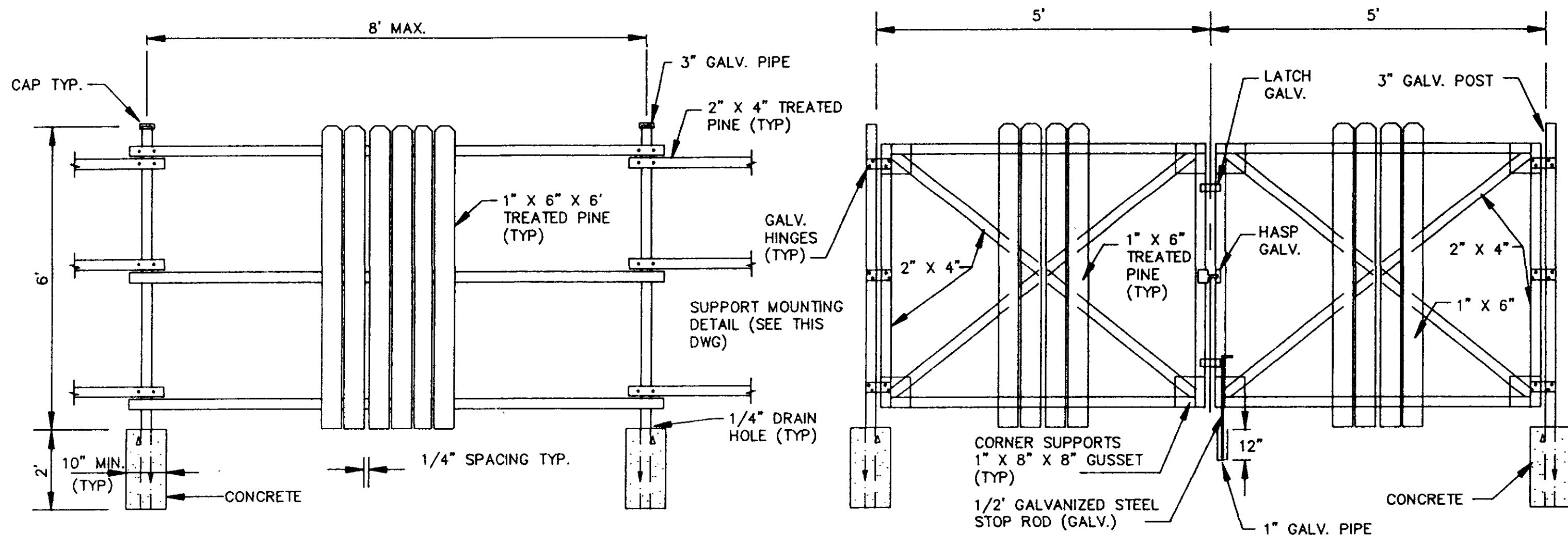
SEWER SERVICE CONNECTION
N.T.S.



SUPPORT MOUNTING DETAIL
N.T.S.



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



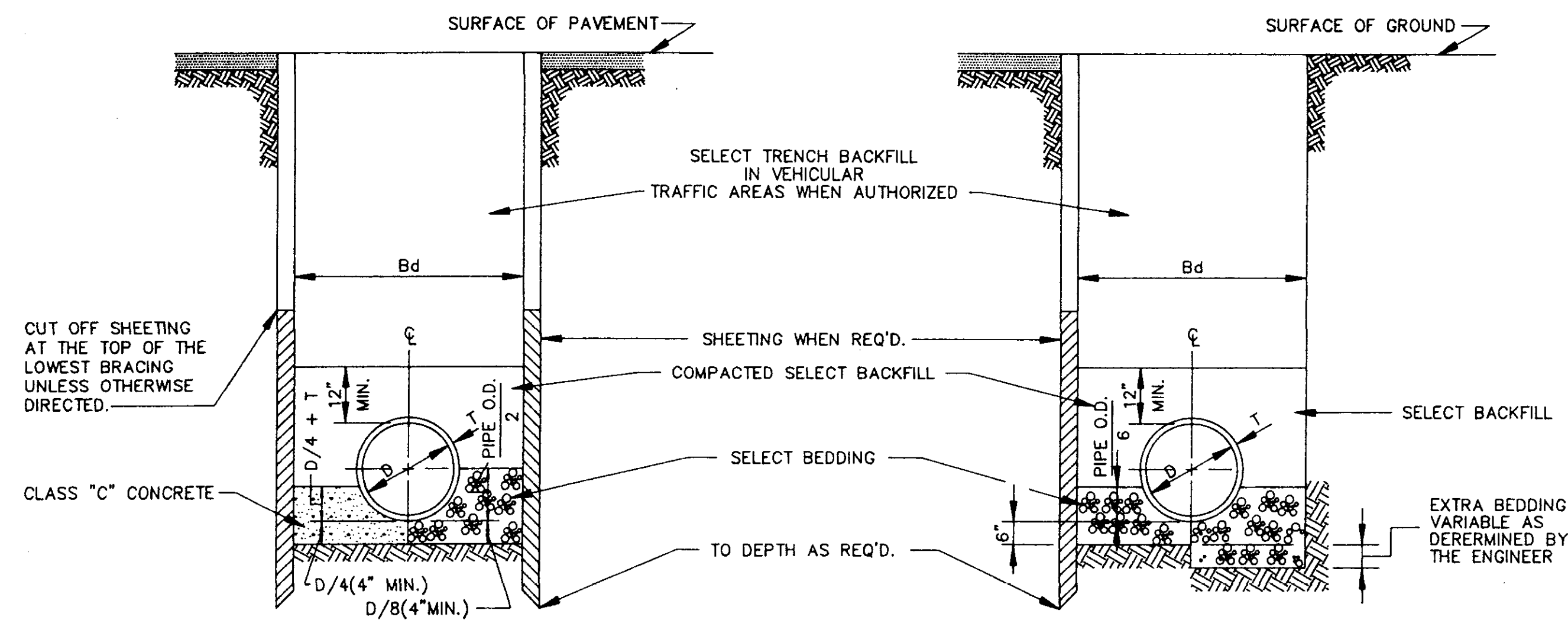
FENCE DETAIL
N.T.S.

GATE DETAIL
N.T.S.

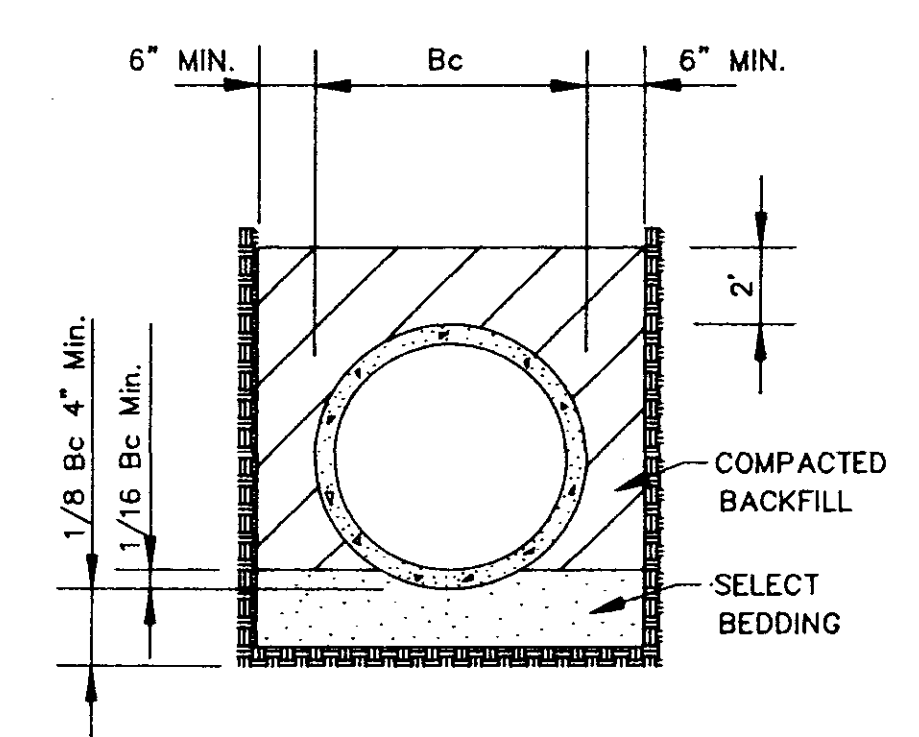
CITY OF RIDGELAND, MS.

STANDARD DETAILS

DSGN:			DRAWING NO.
DRWN:			31
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.

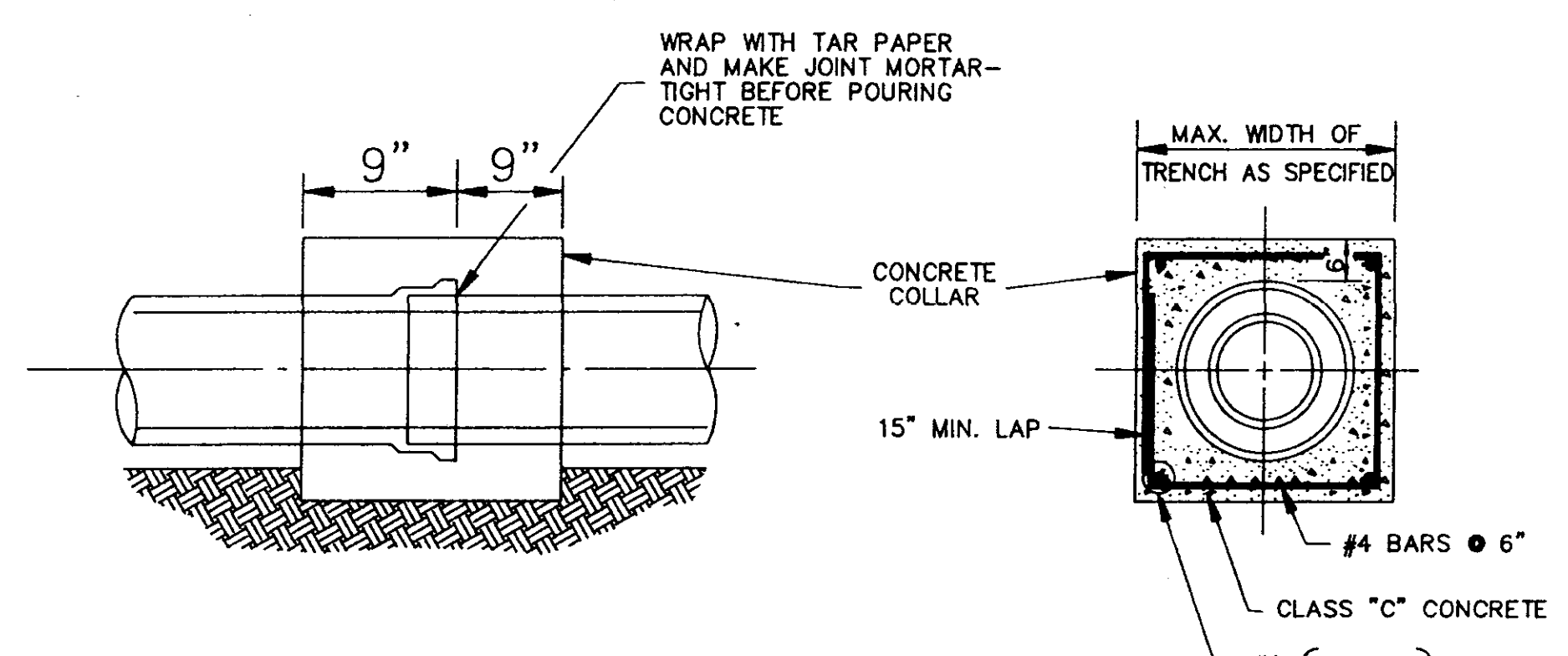
TABLE "A"
PIPE SIZE

CARRIER PIPE (INCHES)	CASING PIPE	
	DIA. (INCHES)	WALL THICK. (INCHES)
8	18	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	"

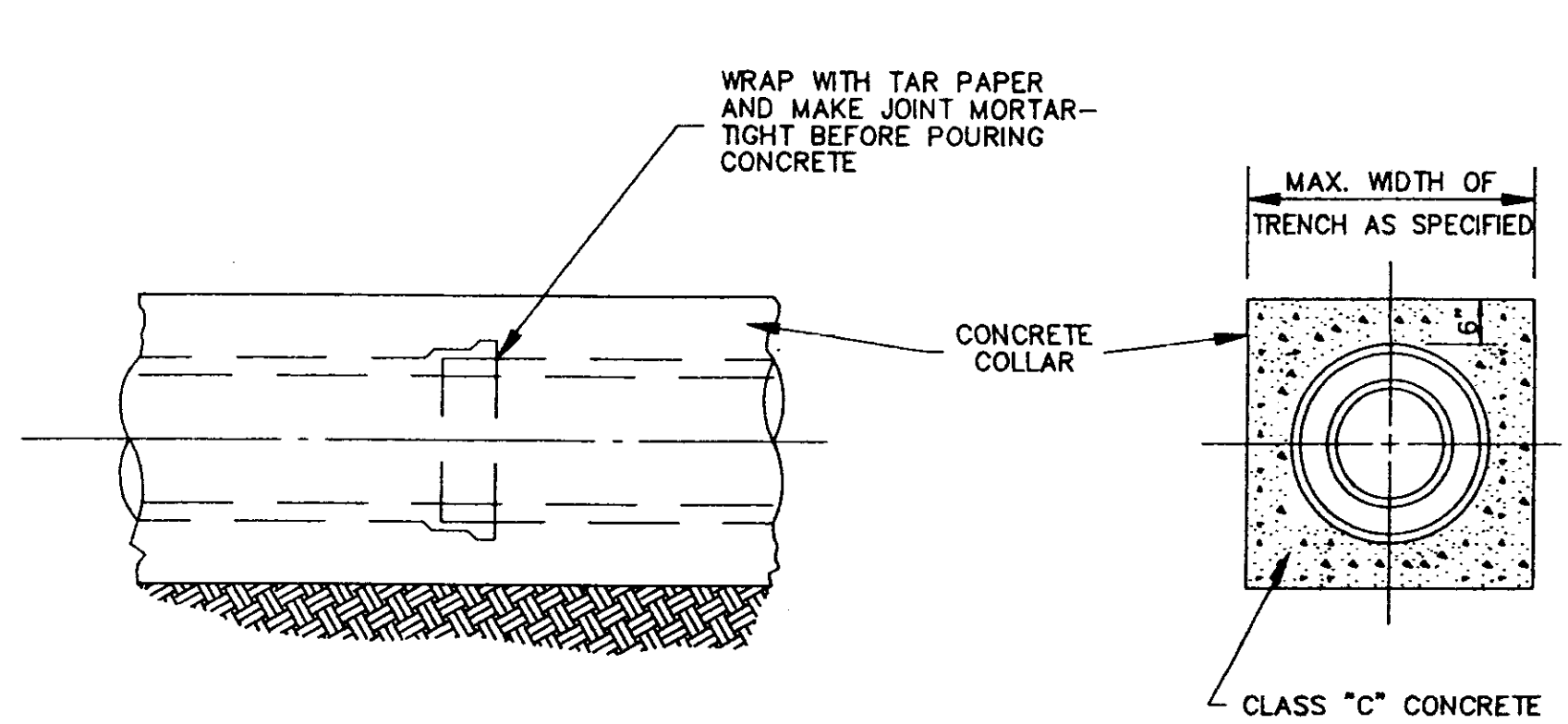
TABLE "B"
GAGES OF LINER PLATE FOR CONTINUOUS LOAD-CARRYING STRUCTURES

NOMINAL DIA. (INCHES)	HEIGHT OF COVER (FEET)											
	10	12	12	12	12	12	12	12	12	12	12	12
48	12	12	12	12	12	12	12	12	10	8	7	5
54	12	12	12	12	12	12	12	12	10	8	7	5
60	12	12	12	12	12	12	12	12	8	7	5	3
66	12	12	12	12	12	10	8	7	5	3	1	1
72	12	12	12	12	12	10	8	7	5	3	1	1
78	12	12	12	12	10	8	7	5	3	1	1	1
84	12	12	12	10	10	8	5	5	3	1	1	1
96	12	10	10	10	10	8	5	5	3	1	1	1
108	10	10	10	10	8	7	5	5	3	1	1	1
120	10	10	10	8	8	7	5	5	3	1	1	1
144	8	8	8	8	5	5	3	1	1	1	1	1

TYPICAL TRENCH DETAILS
 N.T.S.

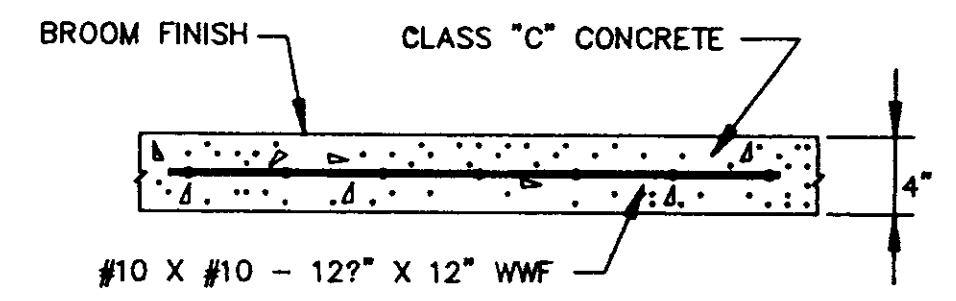


TYPICAL DETAIL OF CONCRETE COLLAR
 N.T.S.

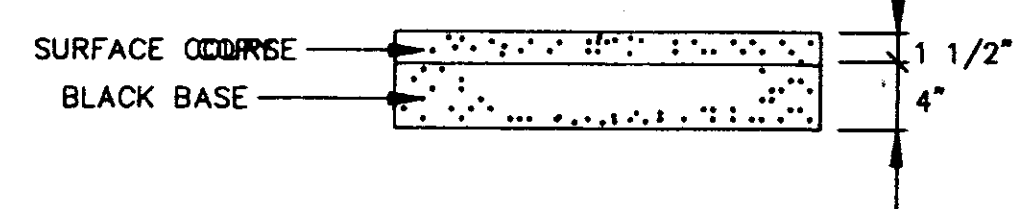


TYPICAL DETAIL OF CONCRETE ENCASMENT
 N.T.S.

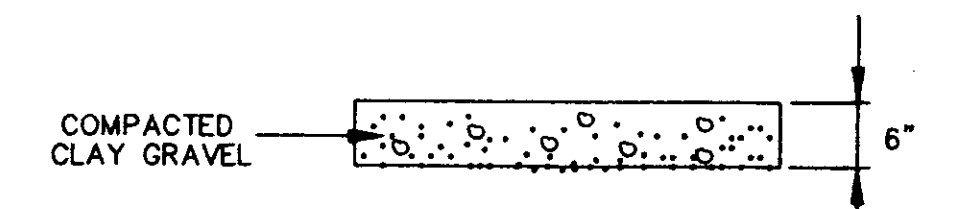
CASING PIPE
 SIZE AND THICKNESS OF PIPE FOR RAILROAD & HIGHWAY CROSSING



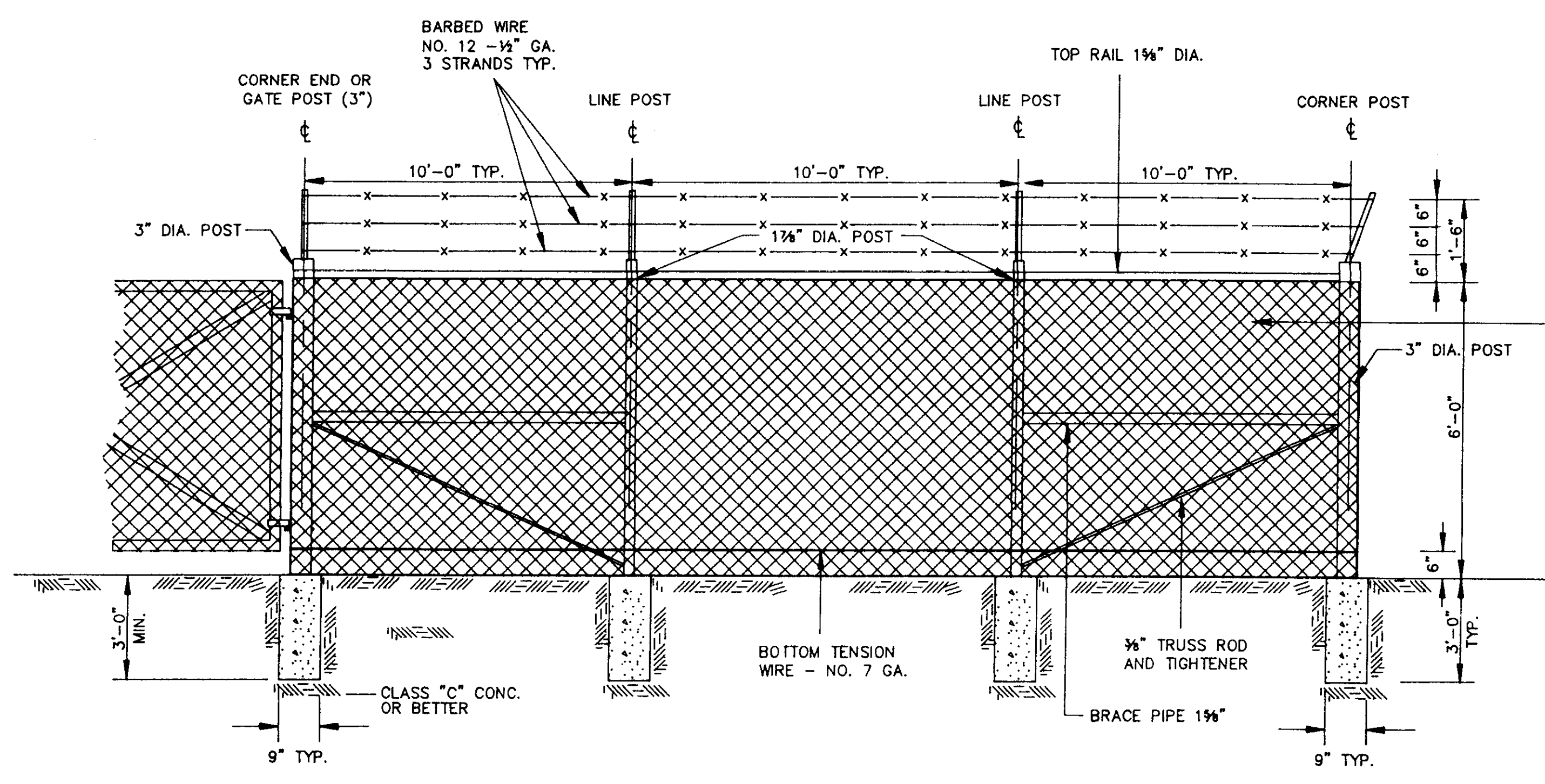
TYPICAL CONC. DRIVEWAY AND SIDEWALK REPAIR



TYPICAL ASPHALT DRIVEWAY REPAIR



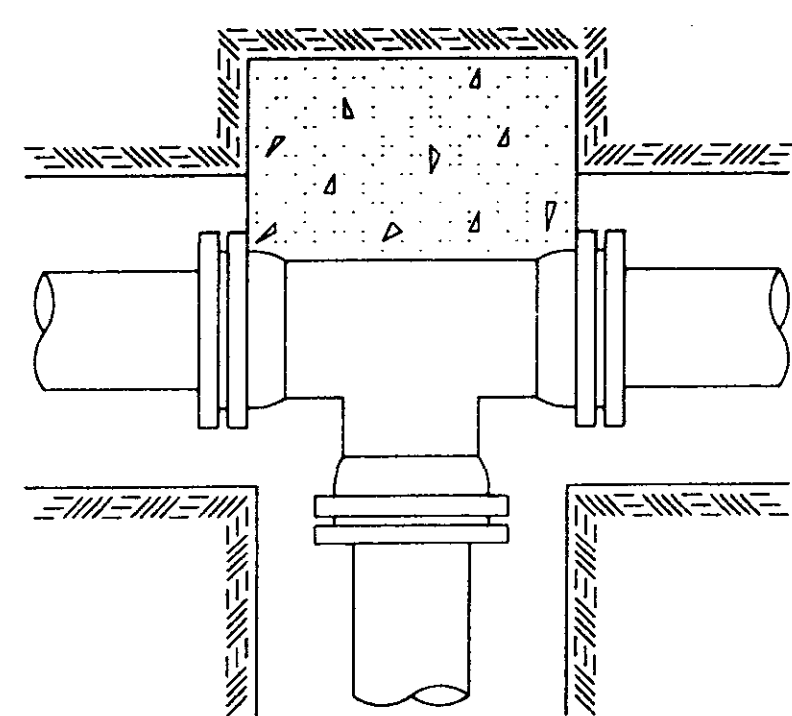
TYPICAL GRAVEL DRIVEWAY REPAIR



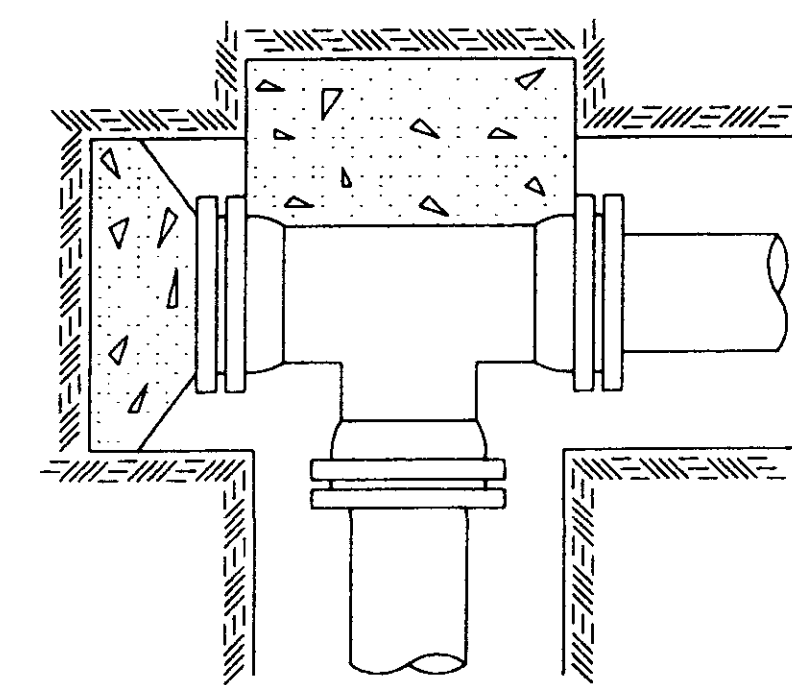
CHAIN LINK FENCE DETAIL
 N.T.S.

CITY OF RIDGELAND, MS.
STANDARD DETAILS

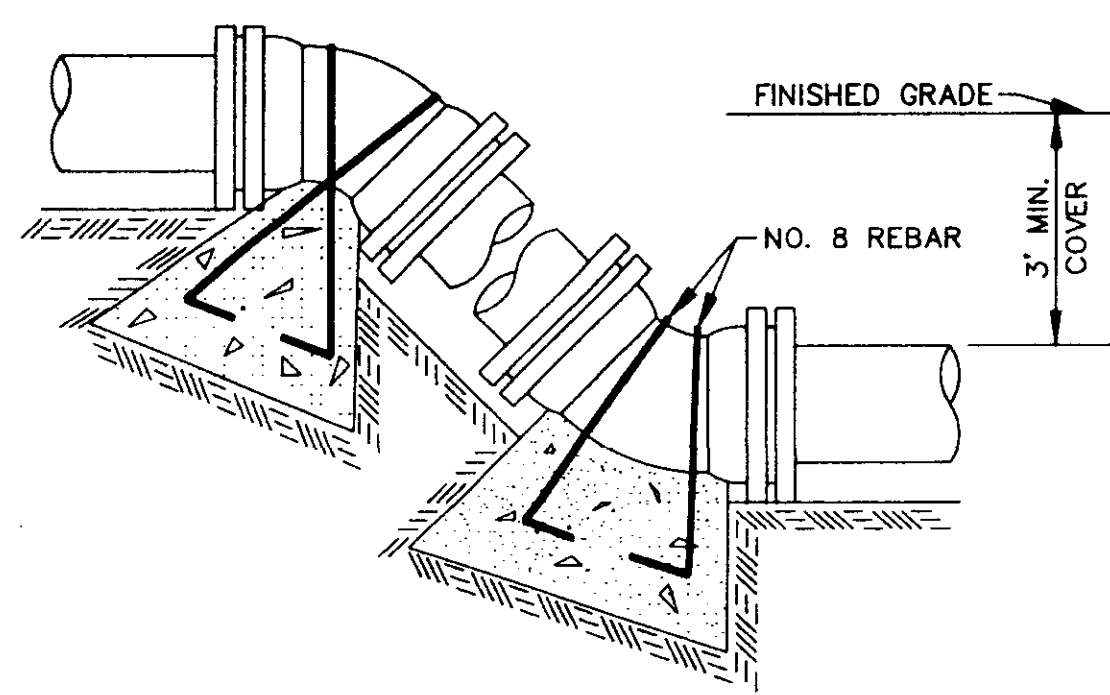
DSGN:			DRAWING NO.
DRWN:			32
CHKD:			
SCALE:			



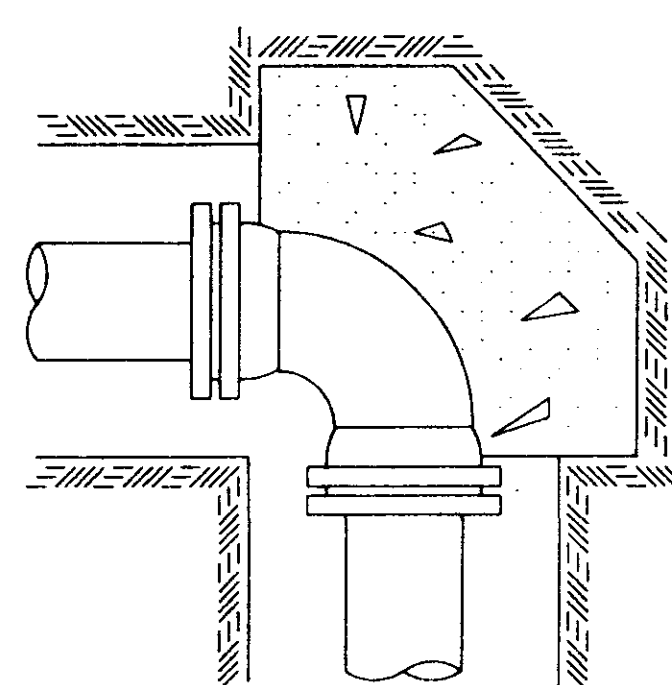
TEE



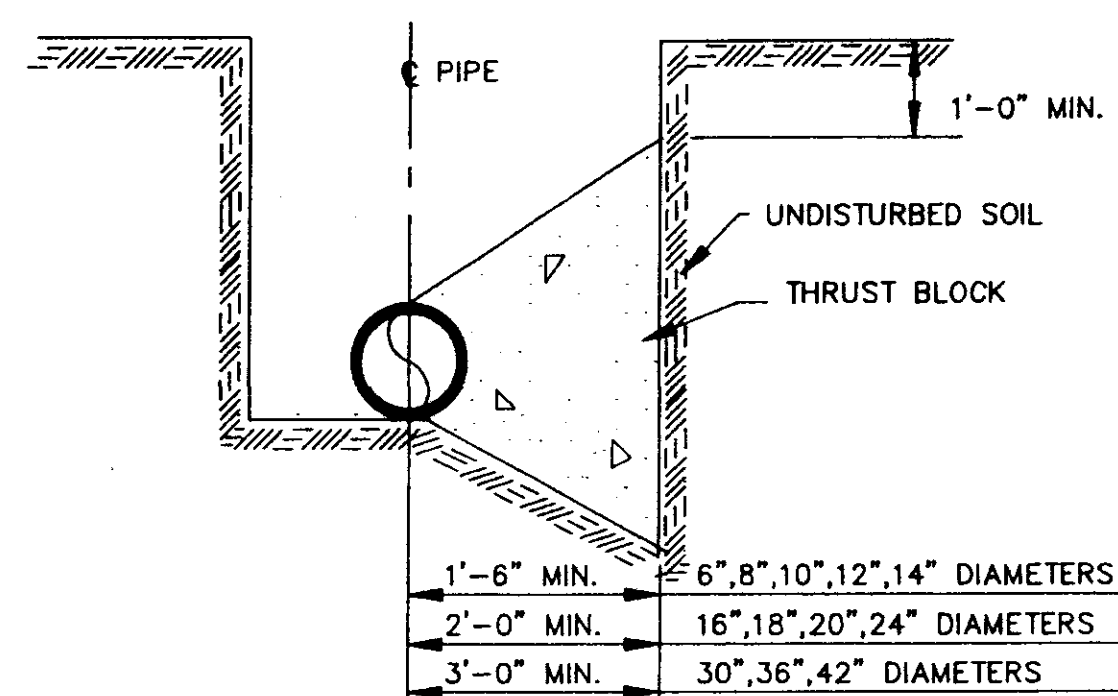
PLUGGED TEE



VERTICAL BENDS



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

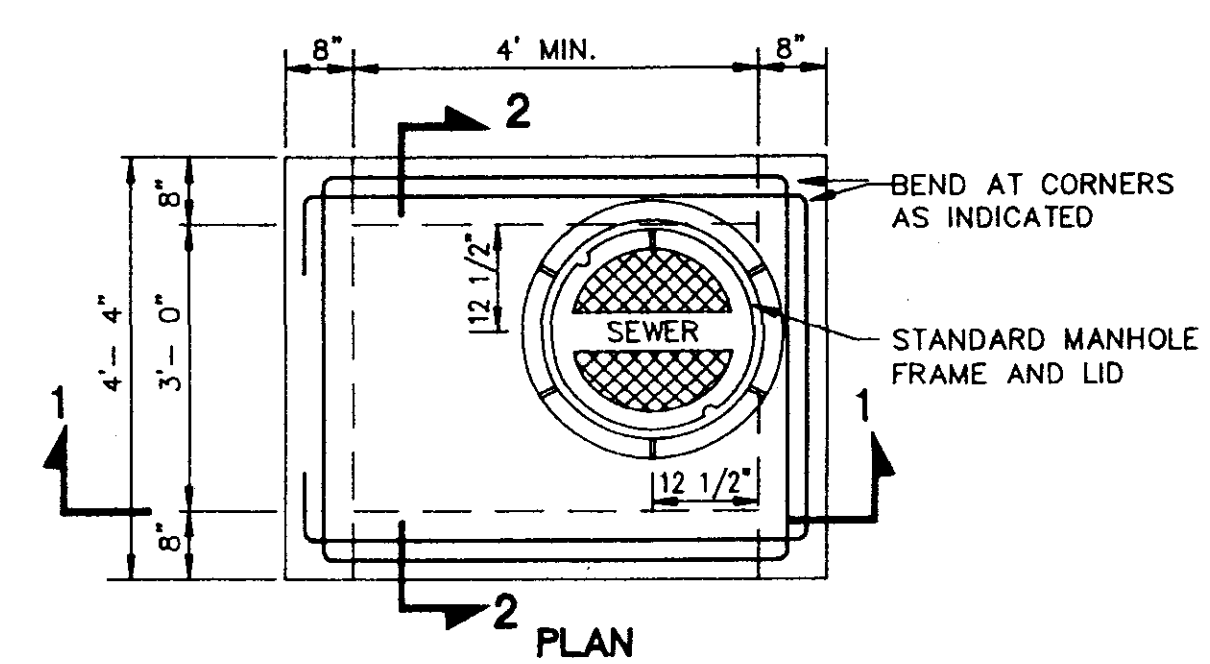
BEARING AREA IN SQ. FT.

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)

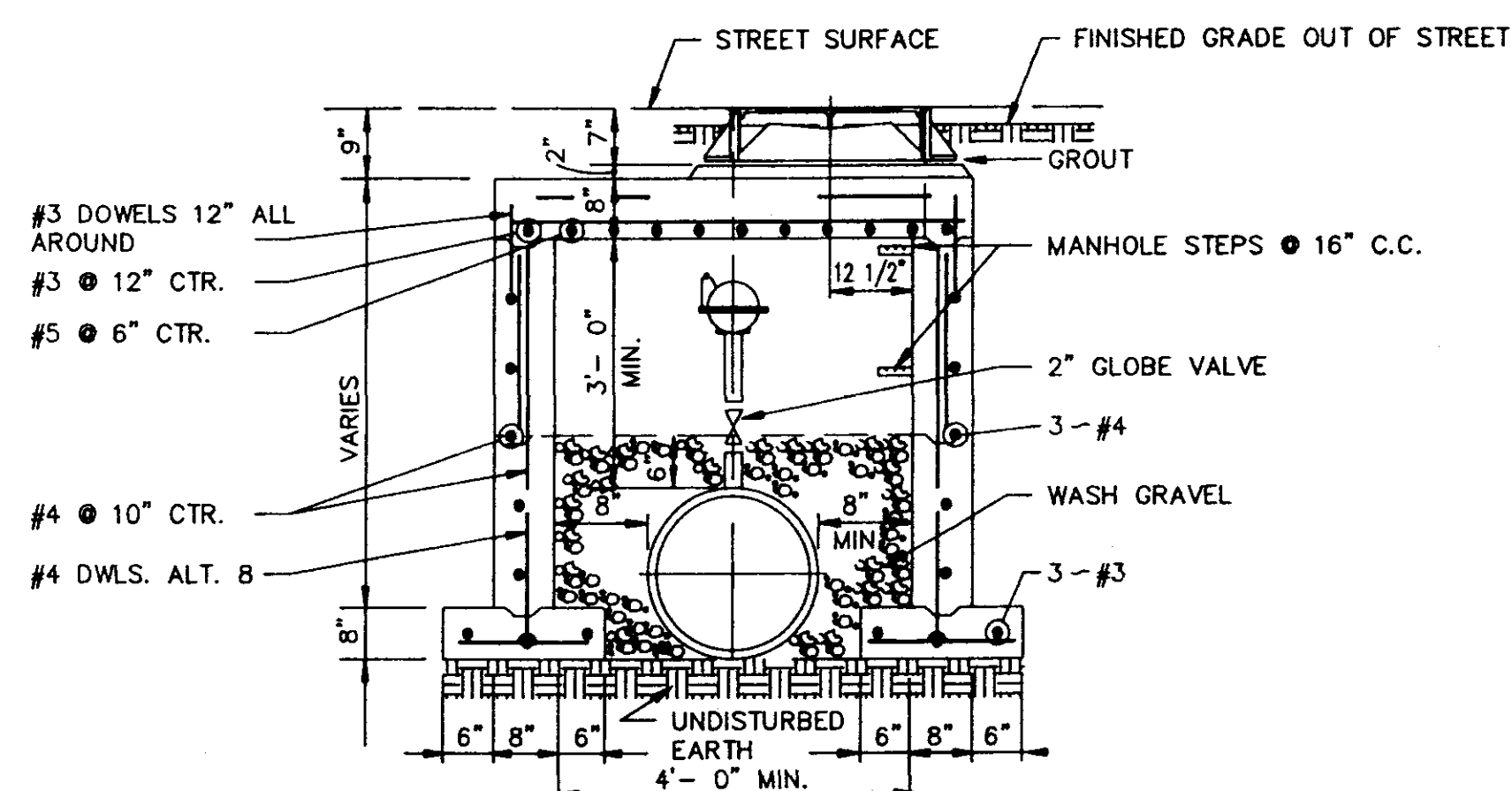
VOLUME OF BLOCKS INCLUDING SOIL LOAD CU. FT. (CU. YDS.)

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.

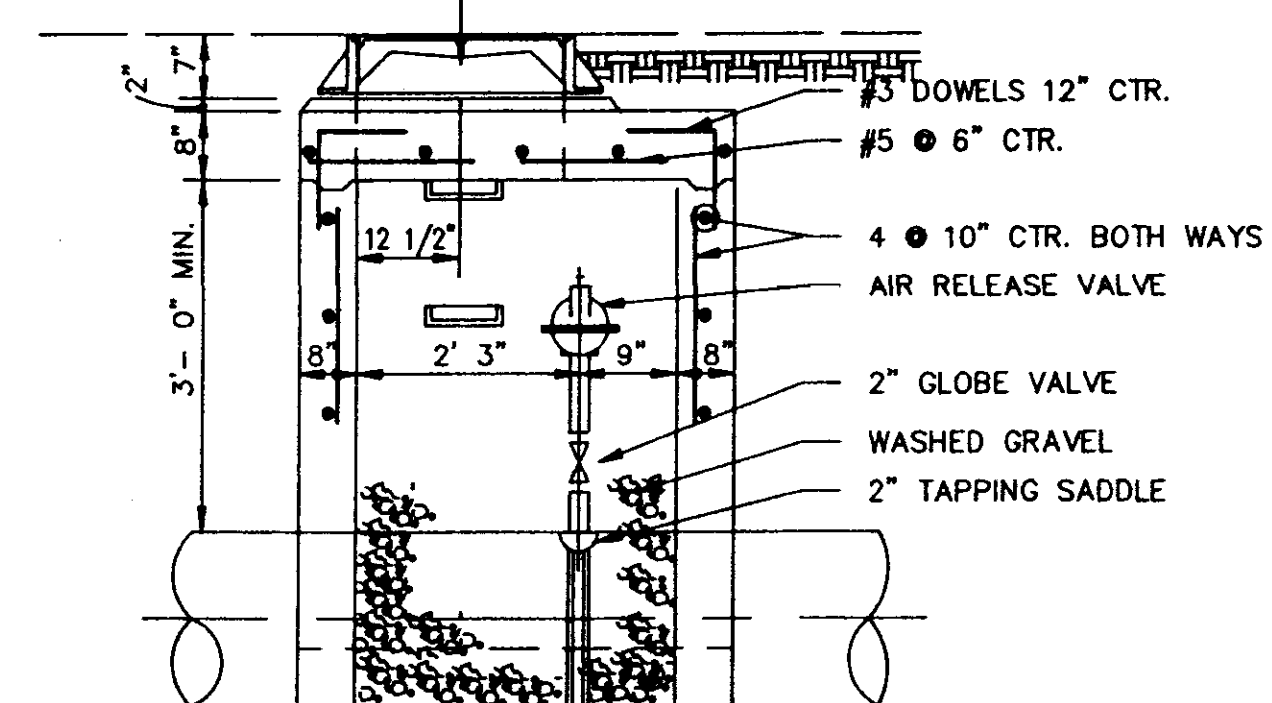
NOTE:
ABOVE VALUES REPRESENT THE VOLUME OF BLOCKS INCLUDING SOIL LOAD IN CU.FT. (CU.YDS.) THE VALUES WERE CALCULATED USING A P=100 PSI AND A S.F.=1.5. FOR DIFFERENT P, MULTIPLY VALUES BY P/100.



PLAN



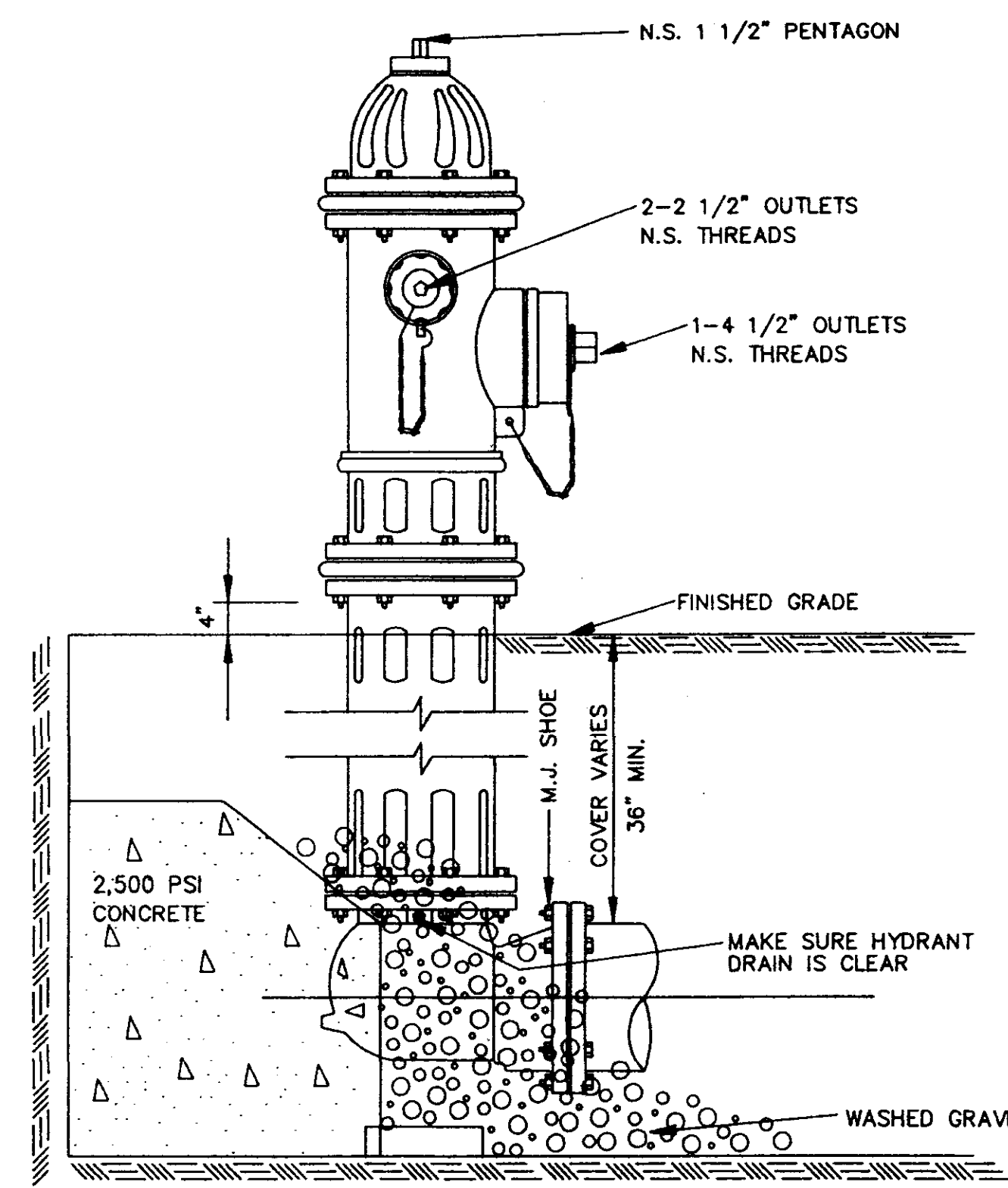
SECTION 1-1



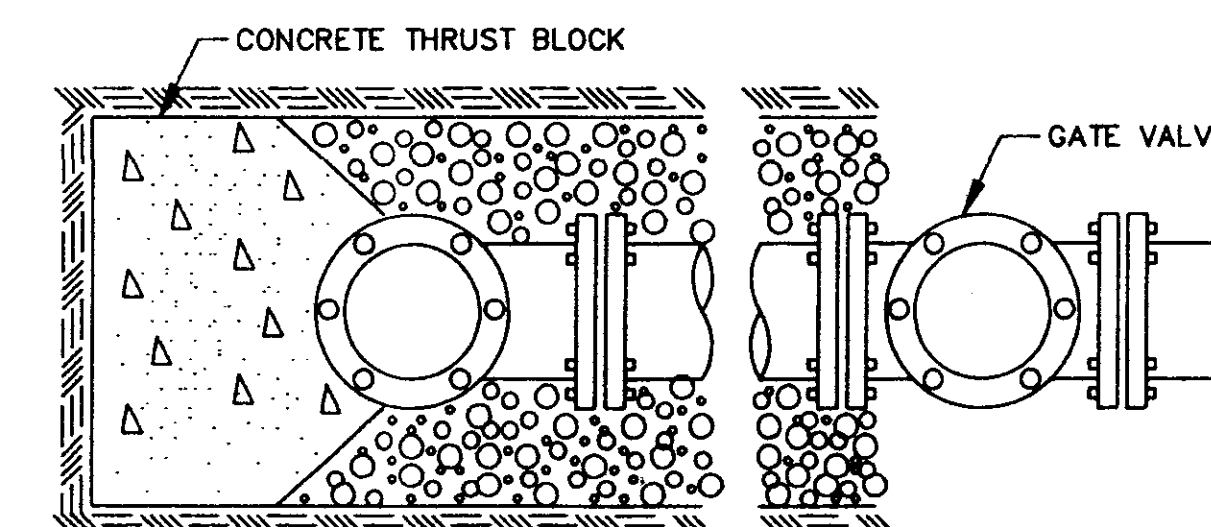
SECTION 2-2

TYPICAL AIR OR AIR VACCUUM RELEASE VALVE INSTALLATION WITH MANHOLE

NOT TO SCALE



ELEVATION

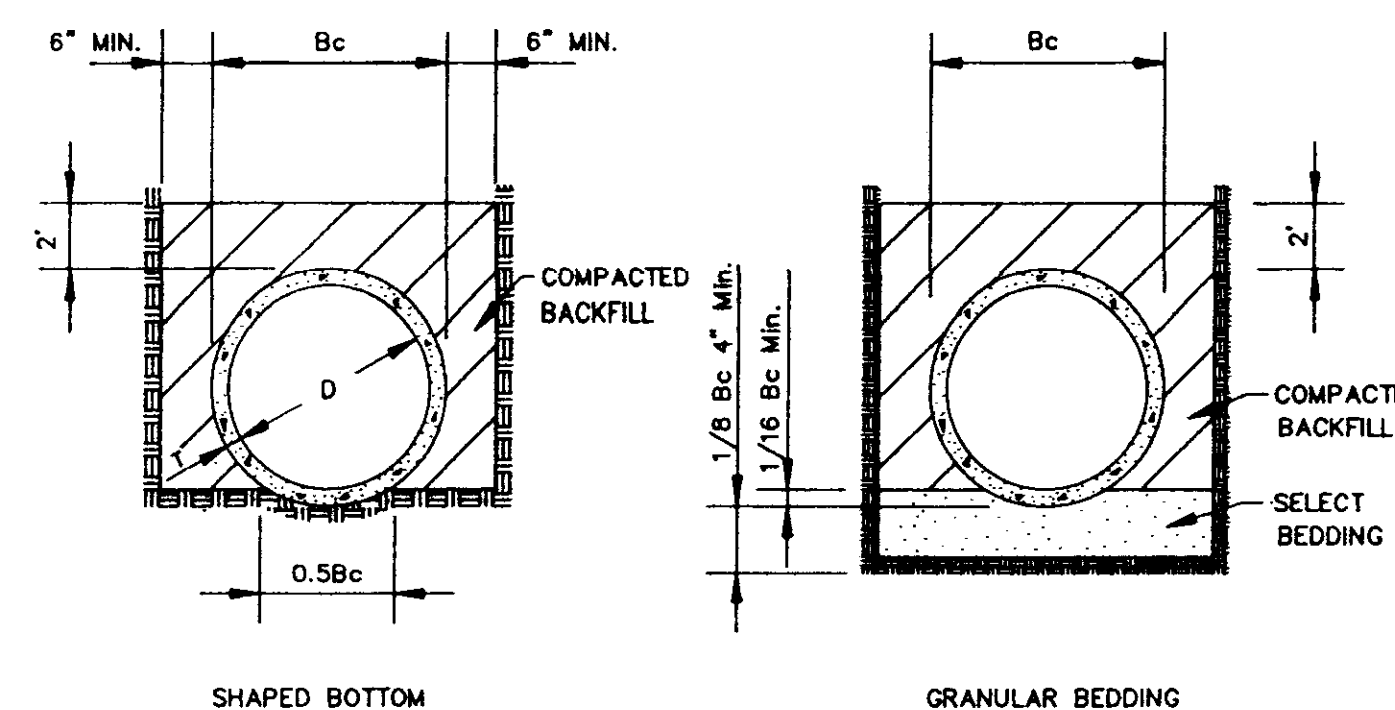


PLAN

TYPICAL FIRE HYDRANT INSTALLATION

NOTE: GATE VALVES WILL BE REQUIRED ON ALL FIRE HYDRANT LEGS.
N.T.S.

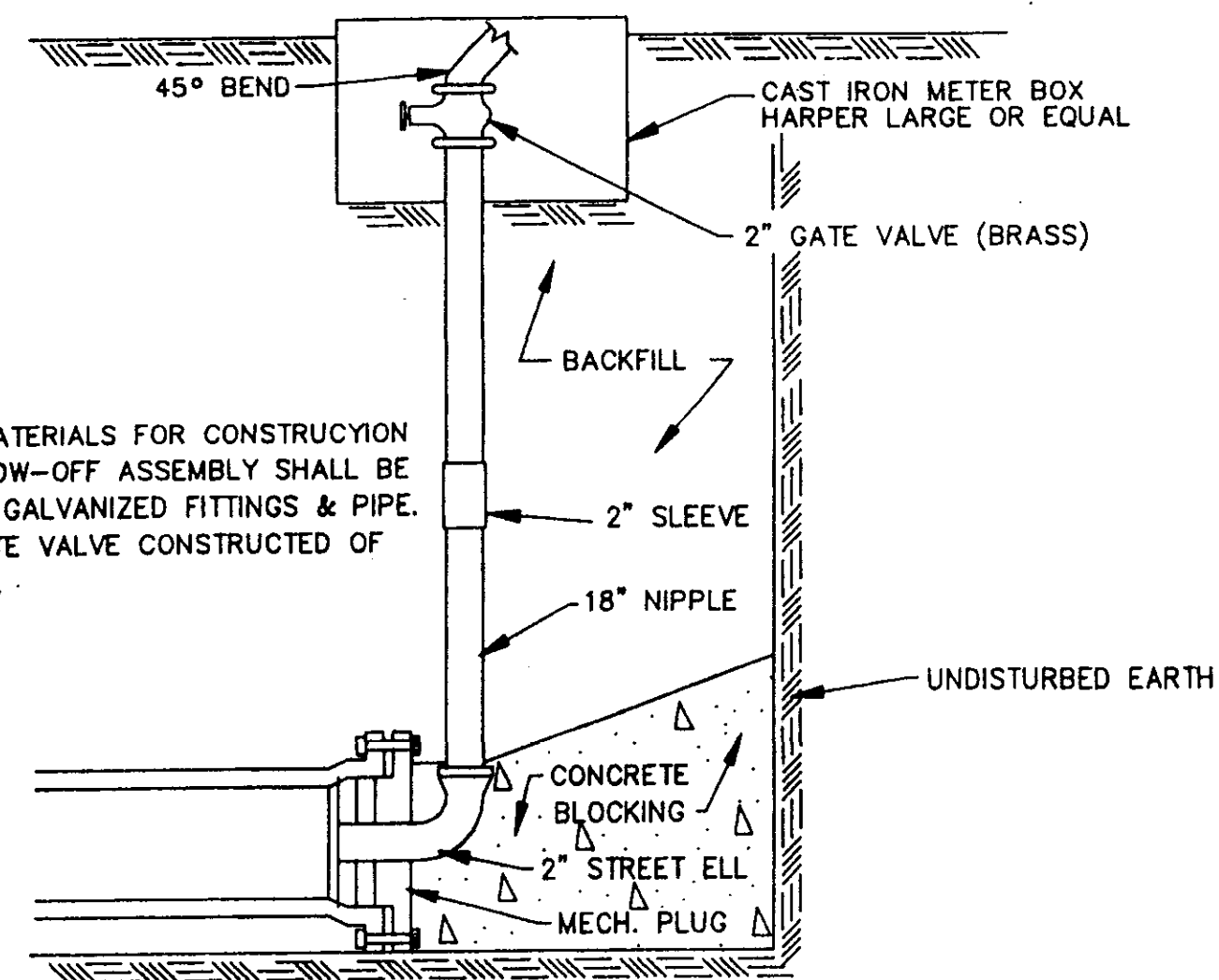
ANCHOR COUPLINGS REQ'D.



TYPICAL TRENCH DETAILS
N.T.S.

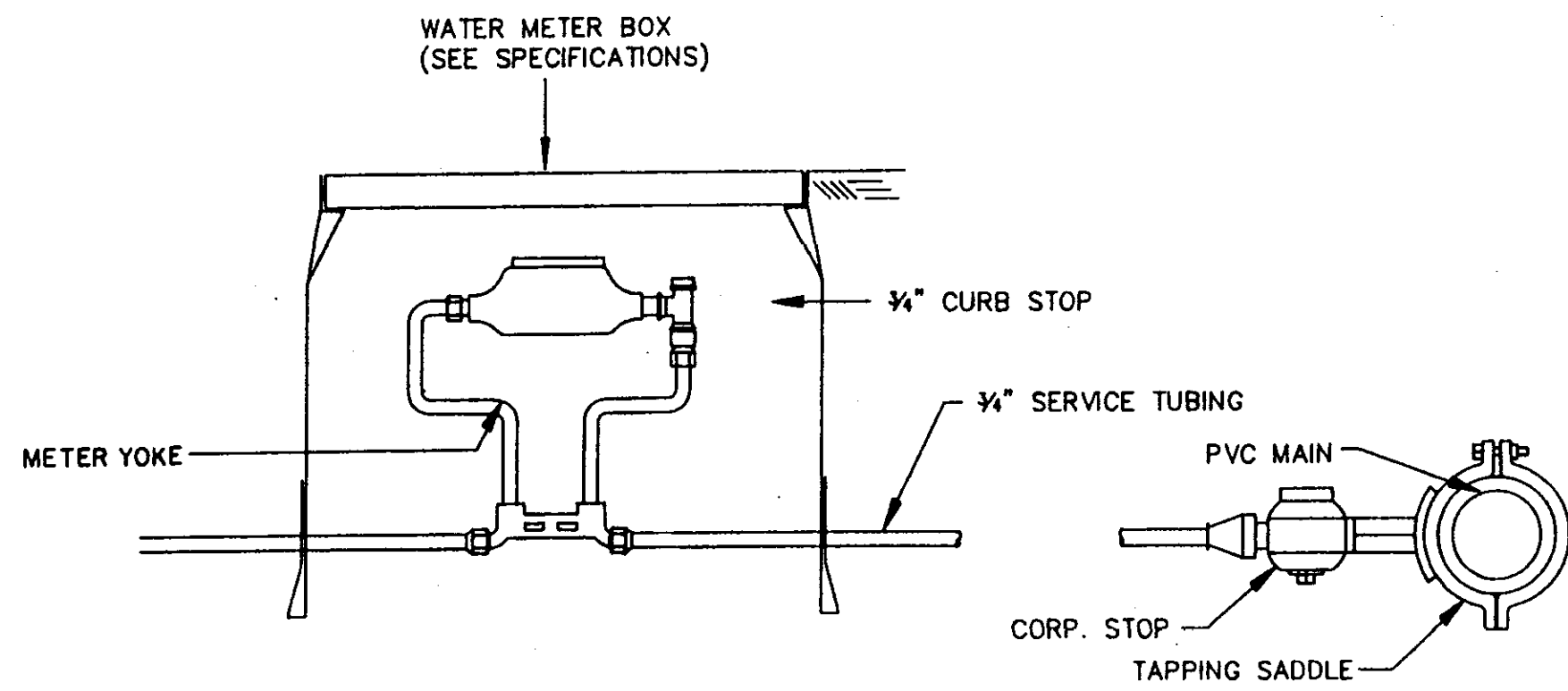
CITY OF RIDGELAND, MS.
STANDARD DETAILS

DEGN:			DRAWING NO.
DRWN:			33
CHKD:			
SCALE:			

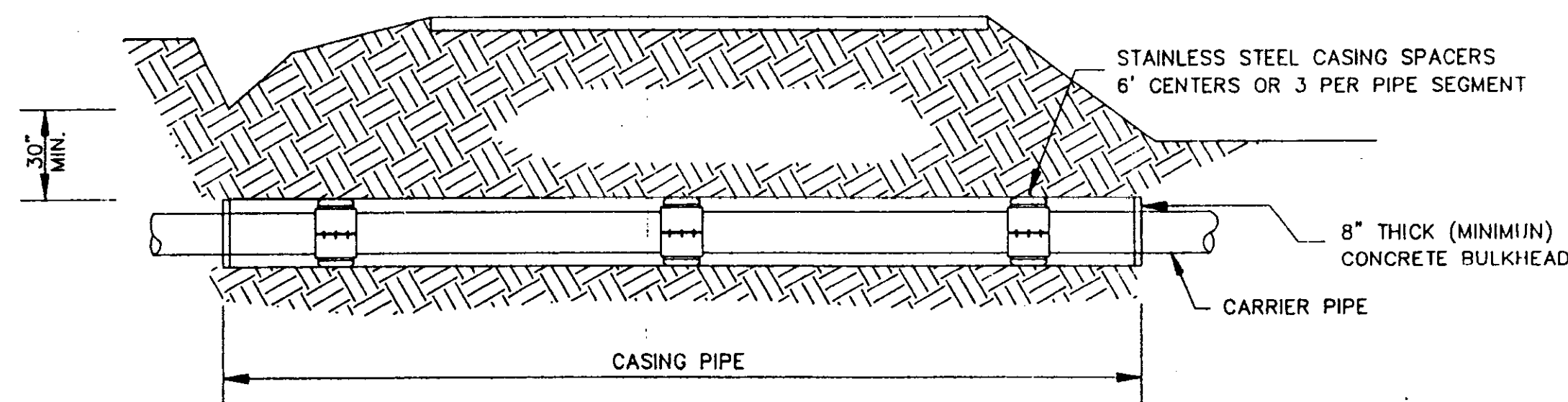


NOTE:
ALL MATERIALS FOR CONSTRUCTION OF BLOW-OFF ASSEMBLY SHALL BE OF 2" GALVANIZED FITTINGS & PIPE. 2" GATE VALVE CONSTRUCTED OF BRASS.

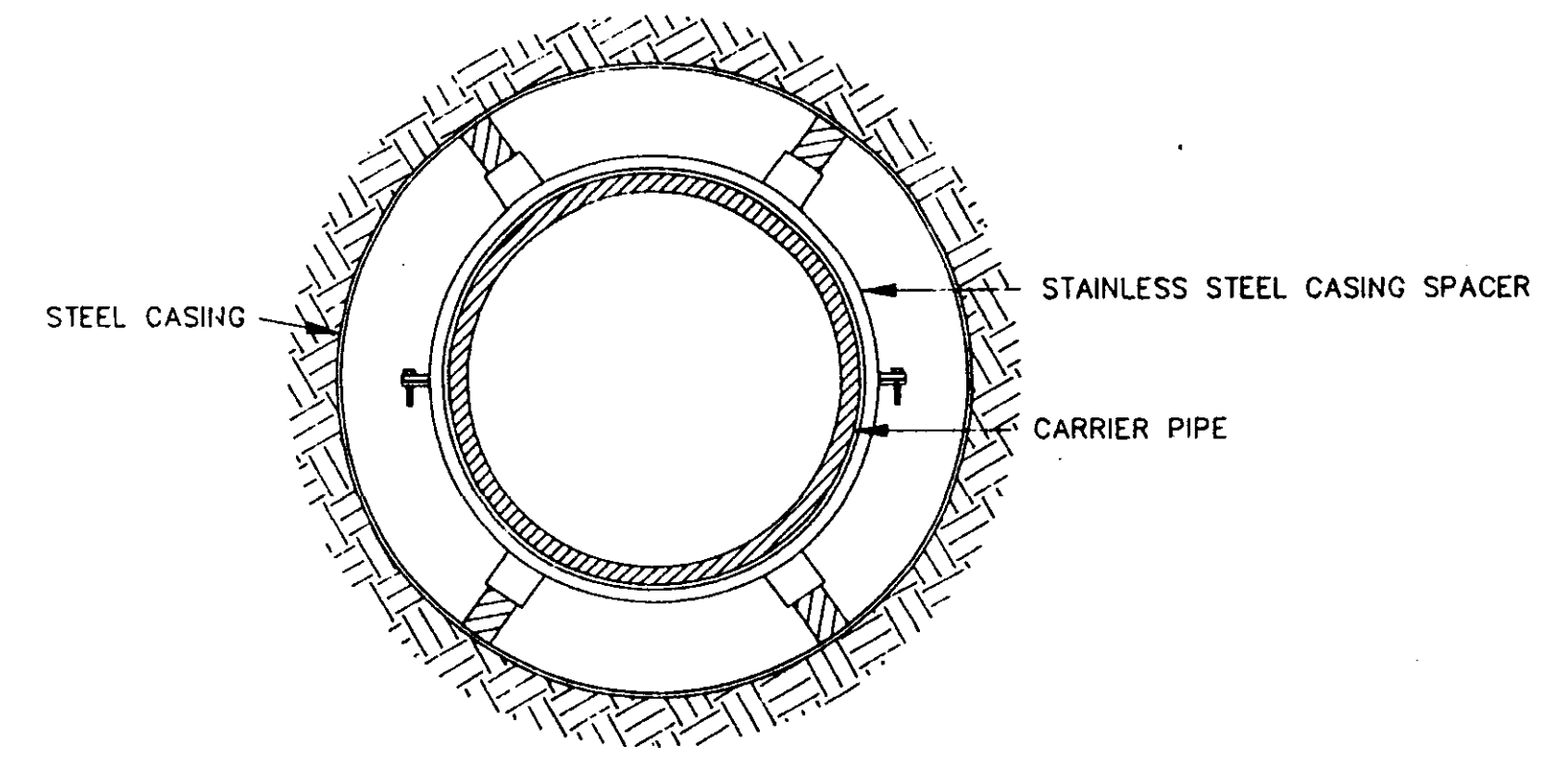
TYPICAL BLOW-OFF ASSEMBLY
N.T.S.



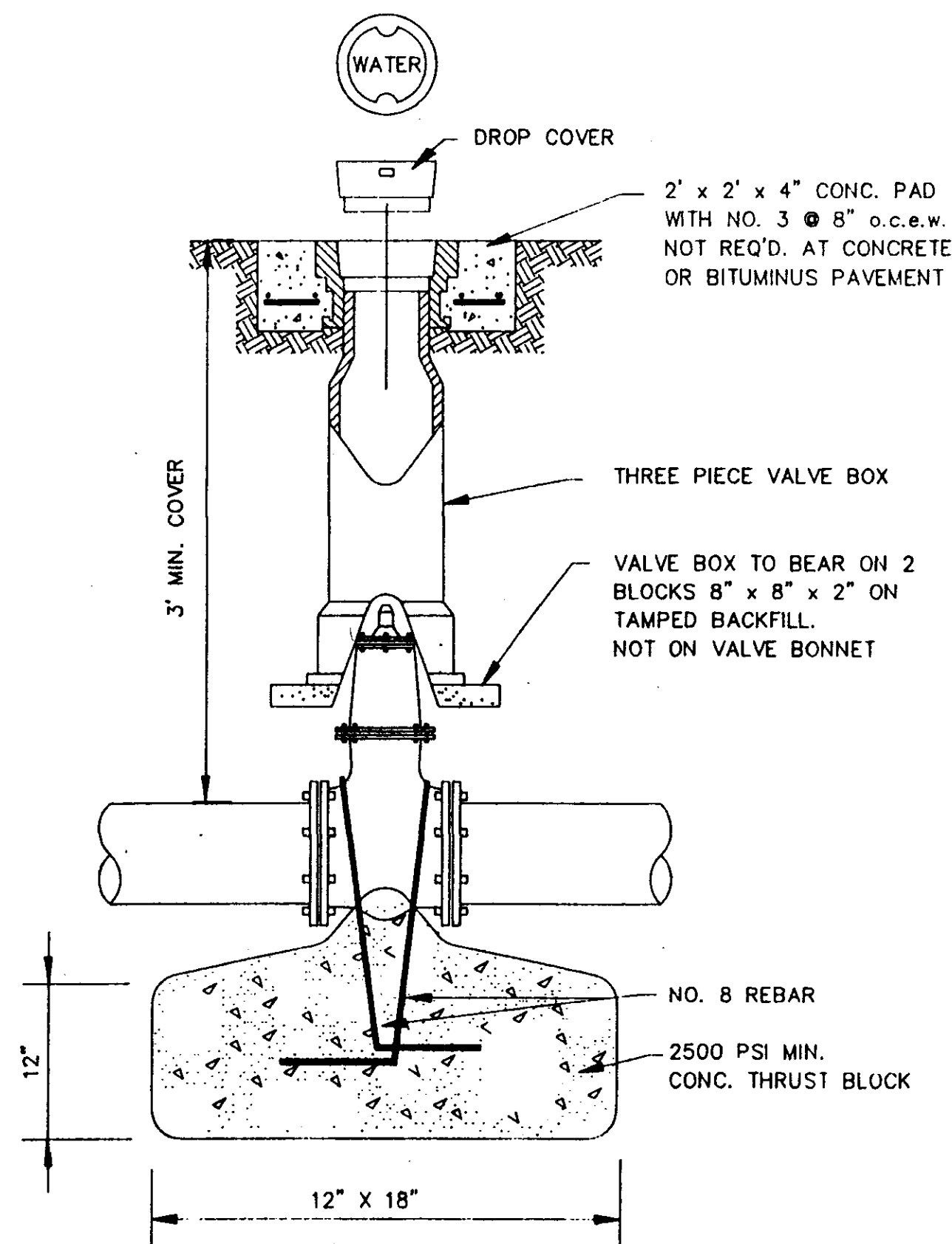
TYPICAL 3/4" WATER SERVICE
N.T.S.



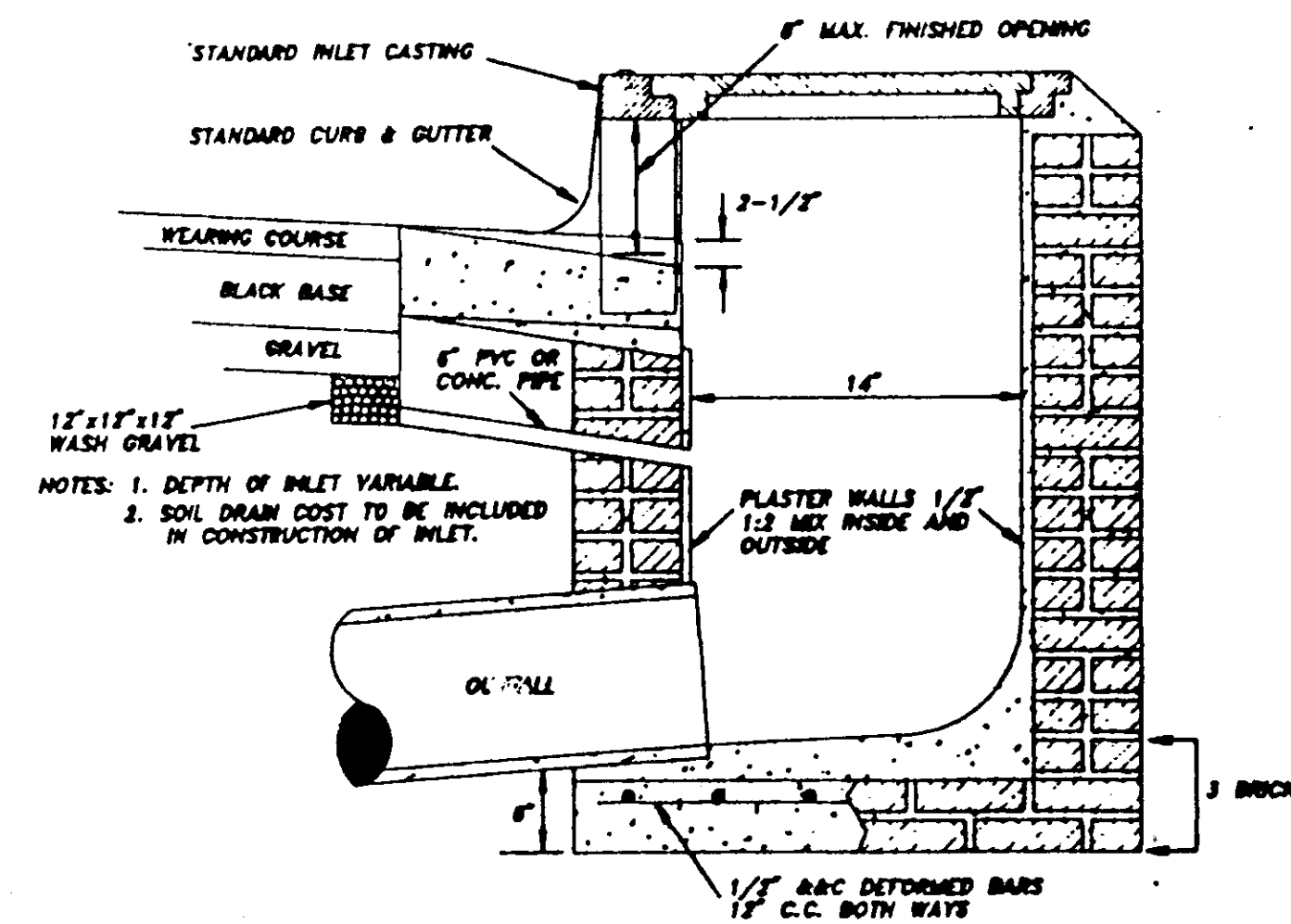
TYPICAL BORE SECTION
N.T.S.



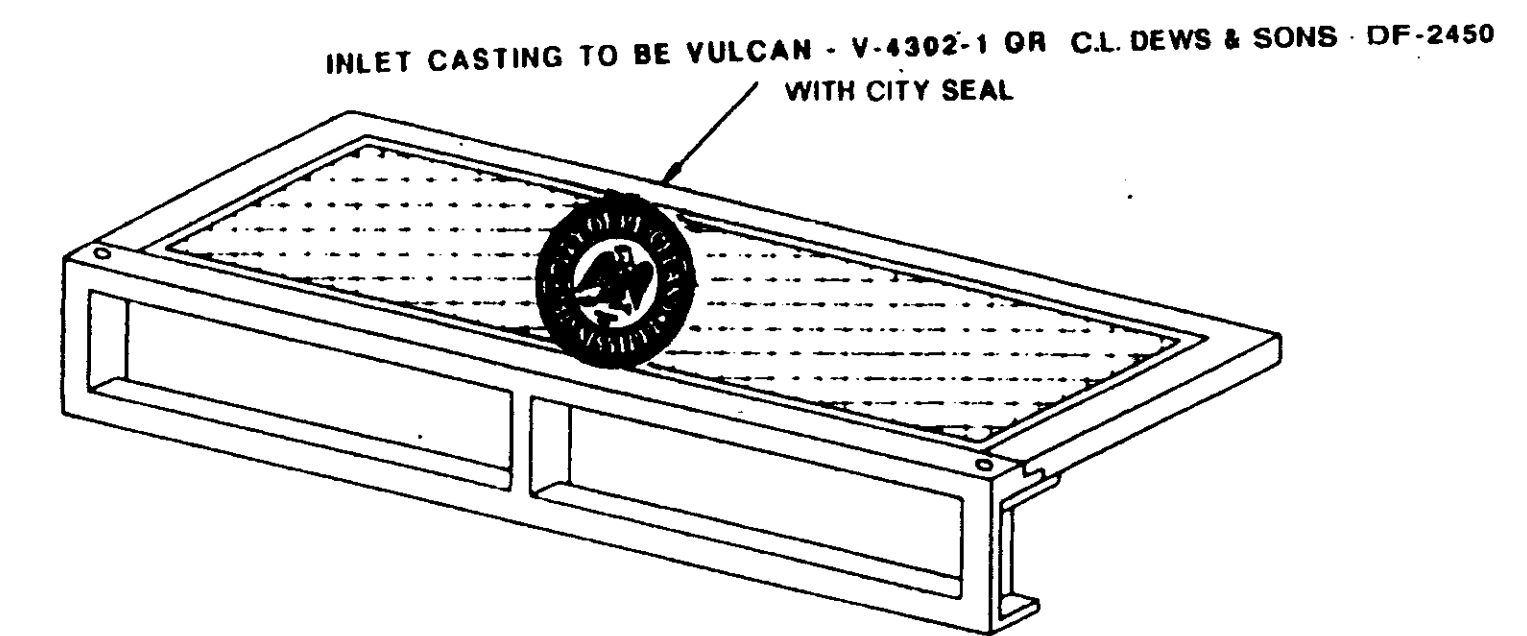
BORE SECTION
N.T.S.



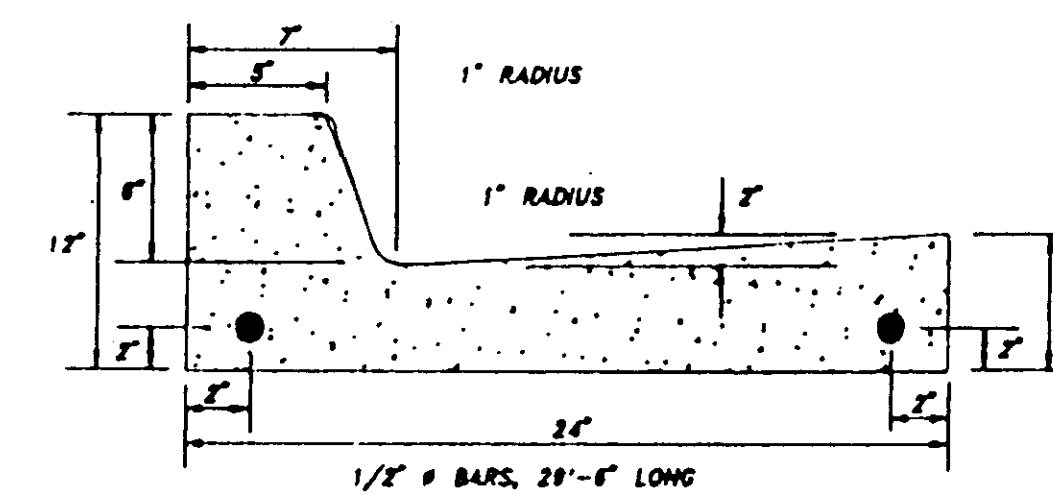
GATE VALVE DETAIL
N.T.S.



SECTION OF STANDARD CURB INLET



STANDARD CURB INLET CASTING



NOTES: 1. ALL CURBS, GUTTERS & DRIVEWAYS TO BE CONSTRUCTED OF 3000 LB. CONCRETE.
2. 2 - 3/8" 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:			DRAWING NO.
DRWN:			34
CHKD:			
SCALE:			

GENERAL DATA												
SS-2 INLET SIZE	WALL THICKNESS WT	INSIDE DIMENSION		OUTSIDE DIMENSION		BASE HEIGHT B	RISER HEIGHT R	WEIGHTS				
		IW	IL	OW	OL			BOTTOM LB	BASE/RISER LB/FT	INLET TOP LB	EXTENSION LB	EXTENSION TOP LB
3 X 5	5	36	60	46	70	24-54	18-48	1125	1114	1880	1865	1070

3' x 5' WALL REINFORCEMENT (SQ. IN. PER LIN. FT.)												
DEPTH OF INSTALLATION	BASE		TOP RISER		INTERIOR RISER #1		INTERIOR RISER #2		INTERIOR RISER #3		INTERIOR RISER #4	
	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT
0-8	0.30	36.969	0.24	29.575	-	-	-	-	-	-	-	-
0-12	0.60	78.867	0.24	29.575	0.60	78.867	-	-	-	-	-	-
0-16	0.88	110.005	0.24	29.575	0.60	78.867	0.74	95.338	-	-	-	-
0-20	1.18	139.340	0.24	29.575	0.60	78.867	0.74	95.338	1.06	124.672	-	-
0-24	1.44	176.008	0.24	29.575	0.60	78.867	0.74	95.338	1.06	124.672	1.20	146.673

CONCRETE QUANTITIES				
SS-2 INLET SIZE	BOTTOM C.Y.	RISER C.Y./FT	TOP C.Y.	EXTENSION C.Y.
3X5	0.279	0.275	0.464	0.724

BOTTOM/TOP/EXTENSION REINFORCEMENT				
SS-2 INLET SIZE	BOTTOM REINFORCEMENT	BOTTOM LB/STEEL	TOP LB/STEEL	EXTENSION LB/STEEL
3X5	#4 @ 9" EW	38.550	116.496	38.305

NOTES: CONCRETE CUBIC YARDS PER INLET = BOTTOM + (TOTAL RISER HEIGHT (FT) x C.Y./FT) + TOP EXTENSION INCLUDES CURB INLET UNIT + TOP + EXTENSIONS- ANY HOLE OPENINGS EXTENSION BLOCKOUT OPENINGS

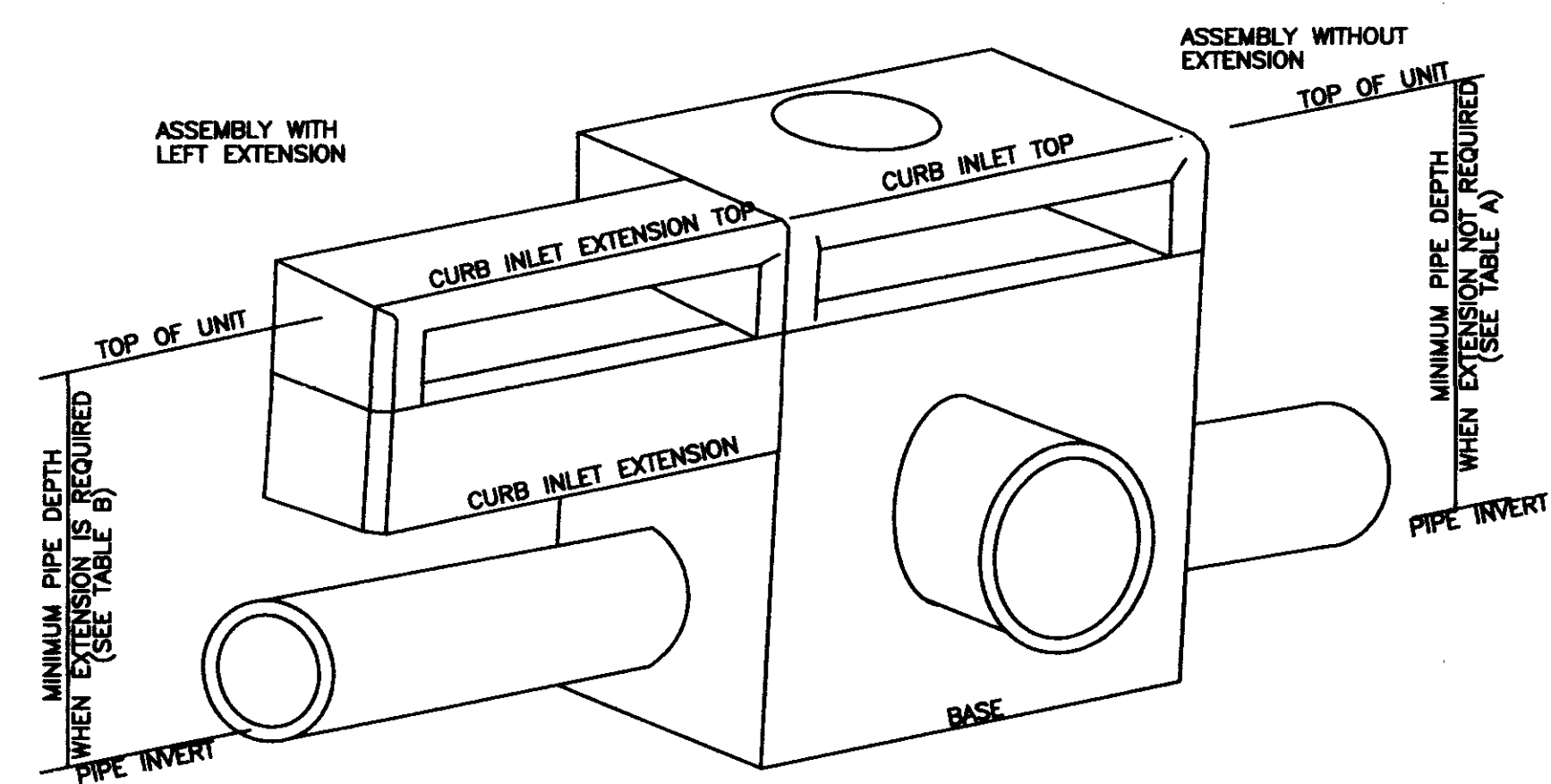
NOTE: *EXTENSION INCLUDES CURB INLET UNIT PLUS TOP

MINIMUM PIPE DEPTH WITHOUT EXTENSION TOP OF CURB UNIT TO PIPE INVERT			
ROUND RCP SIZE	DEPTH INCHES	ARCH RCP SIZE	DEPTH INCHES
12	36	-	-
15	39.5	18x11	32.5
18	42	22x13	34.5
21	44.5	-	-
24	49	29x18	39.5
27	53.5	-	-
30	55	36x23	44.5

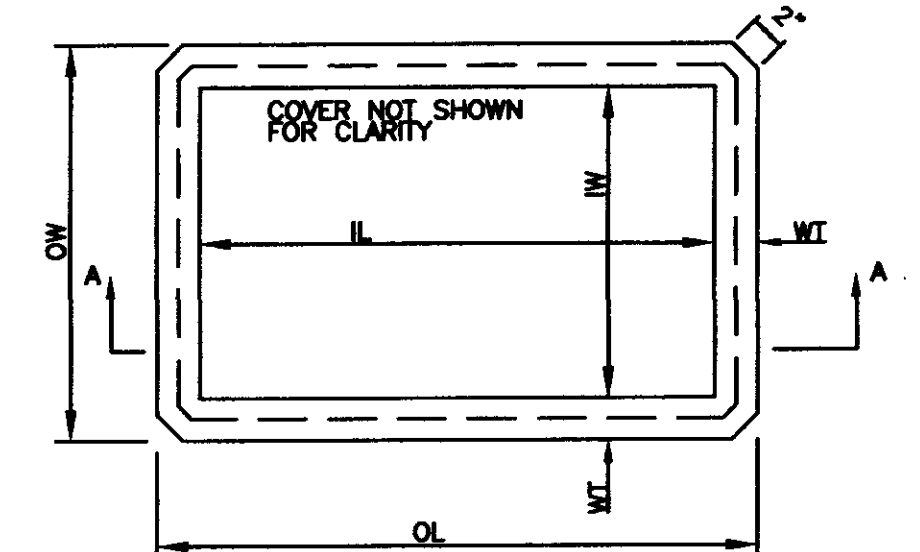
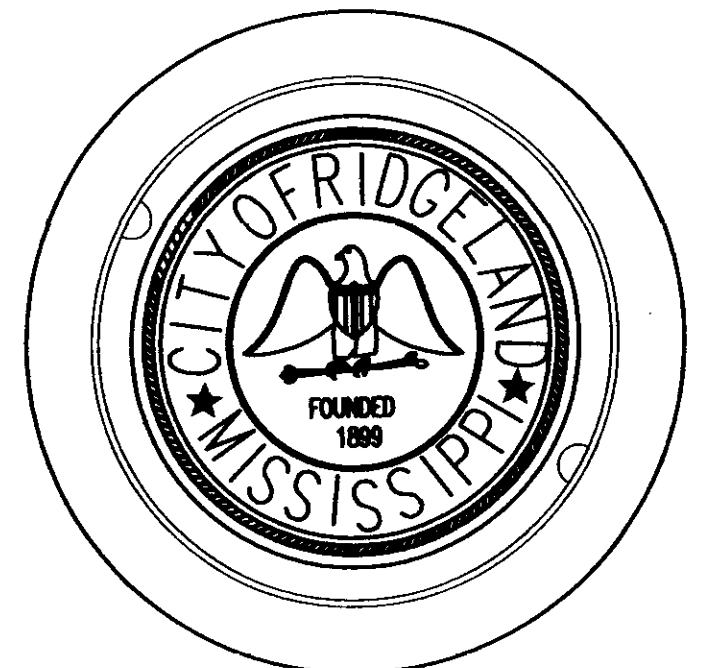
MINIMUM PIPE DEPTH WITH EXTENSION TOP OF CURB UNIT TO PIPE INVERT			
ROUND RCP SIZE	DEPTH INCHES	ARCH RCP SIZE	DEPTH INCHES
12	55	-	-
15	58	18x11	55
18	61	22x13	58
21	64	-	-
24	67	-	-
27	72	-	-
30	-	-	-

NOTE: BLANK SPACES IN TABLES INDICATE PIPE WILL NOT FIT INTO SIDE OF BOX OR PIPE SIZE IS NOT AVAILABLE.

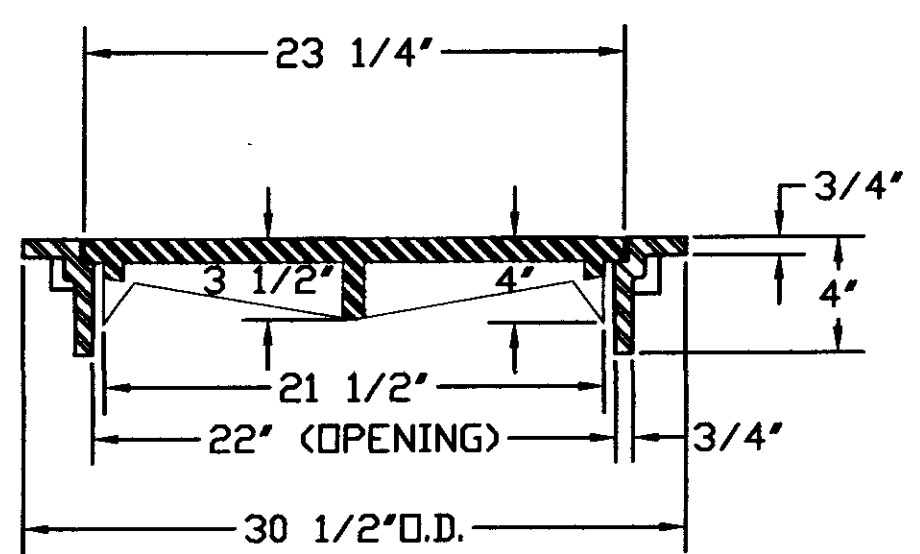
HOLE OPENING									
ROUND RCP SIZE	OPENING				ARCH RCP SIZE	OPENING			
	INCHES		CONCRETE DEDUCTION PER OPENING (C.Y.)	CONCRETE DEDUCTION PER OPENING (C.Y.)		INCHES		CONCRETE DEDUCTION PER OPENING (C.Y.)	CONCRETE DEDUCTION PER OPENING (C.Y.)
12	2	20			4	0.017	-		
15	2.25	24	4.5	0.032	18x11	2.25	25.5x18.5	1.5	0.015
18	2.5	26	4	0.045	22x13	2.5	30x21	1.5	0.045
21	2.75	28	3.5	0.060	-	-	-	-	-
24	3	32	4	0.076	29x18	3	38x27	1.5	0.073
27	3.25	40	6.5	0.095	-	-	-	-	-
30	3.5	40	5	0.118	36x23	3.5	46x33	1.5	0.108



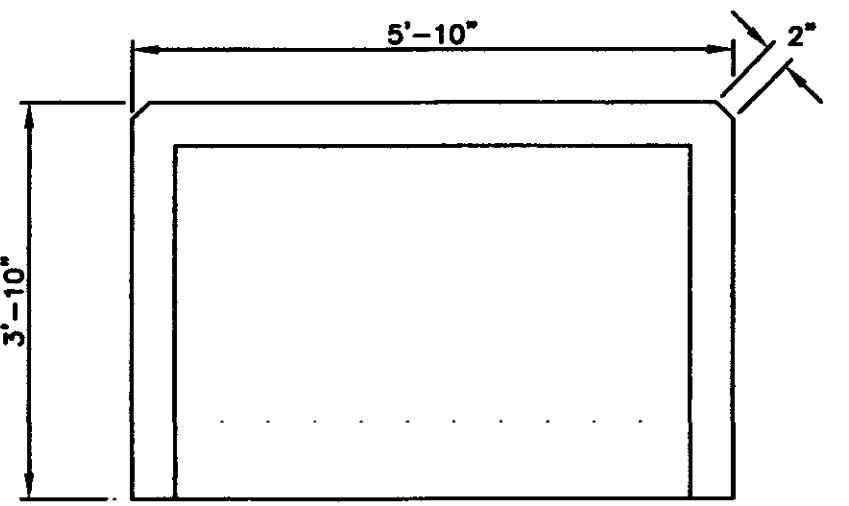
ISOMETRIC VIEW OF PRECAST UNIT



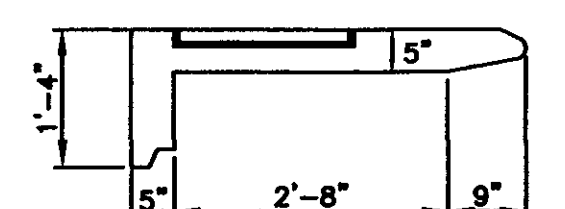
PLAN FOR BASE/RISER INLET/JUNCTION BOX



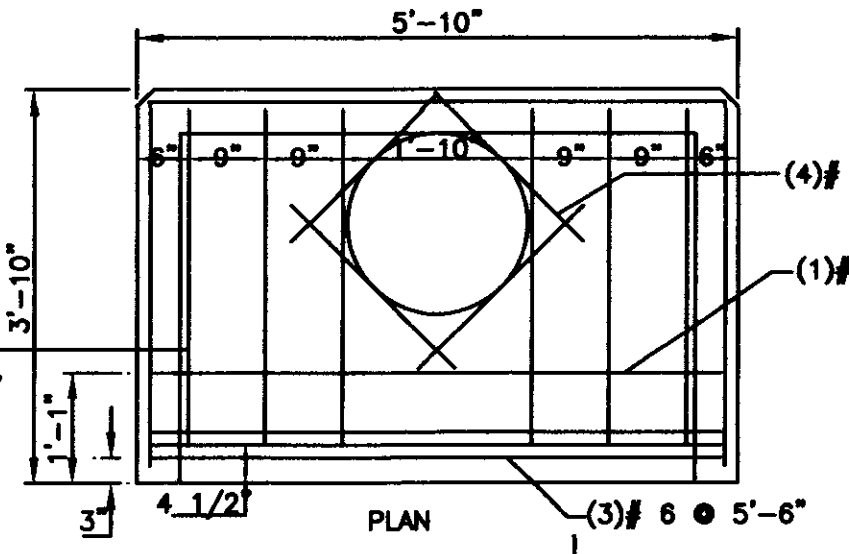
DEWS DF-22TF MANHOLE RING & COVER (TOP FLANGE)



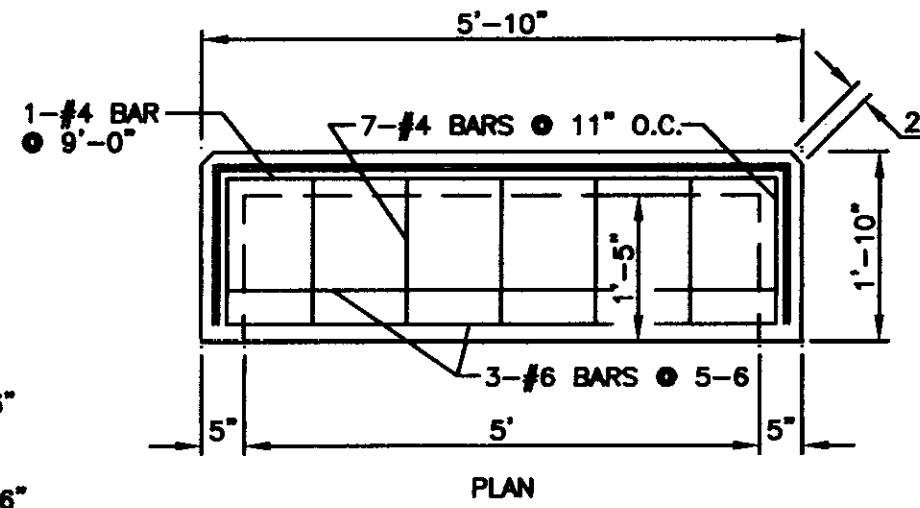
CURB INLET TOP



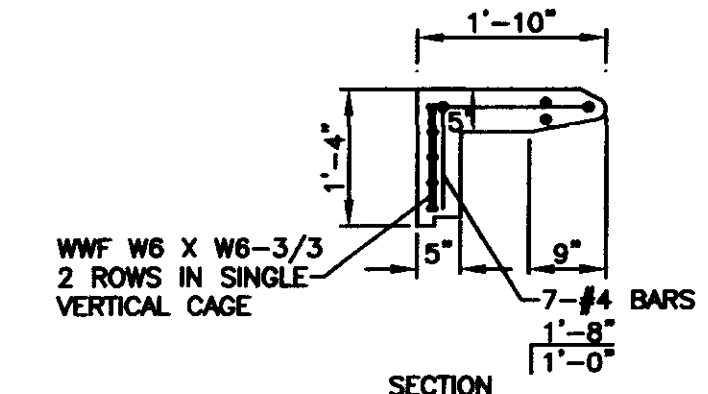
REINFORCEMENT CURB INLET TOP



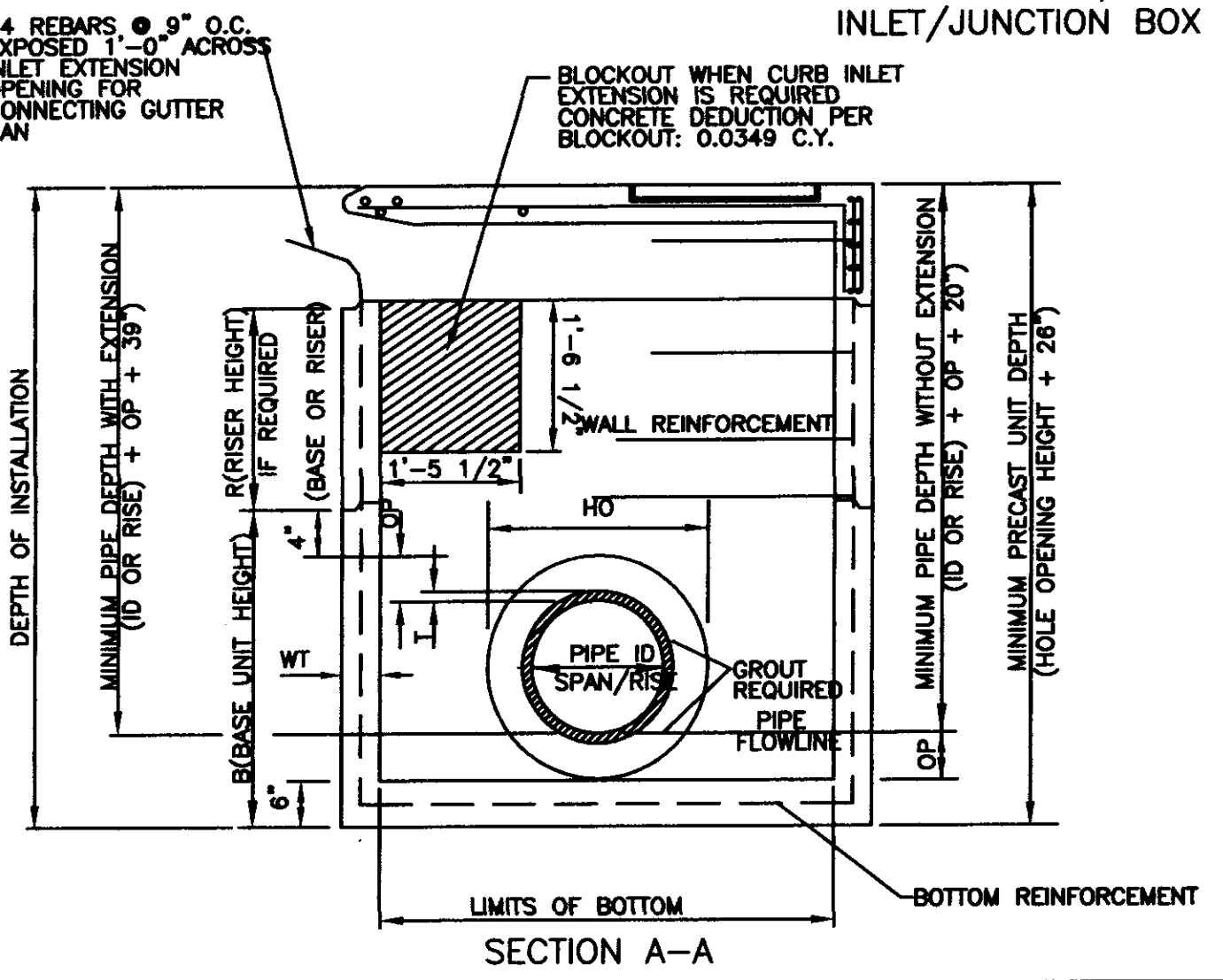
REINFORCEMENT CURB INLET TOP



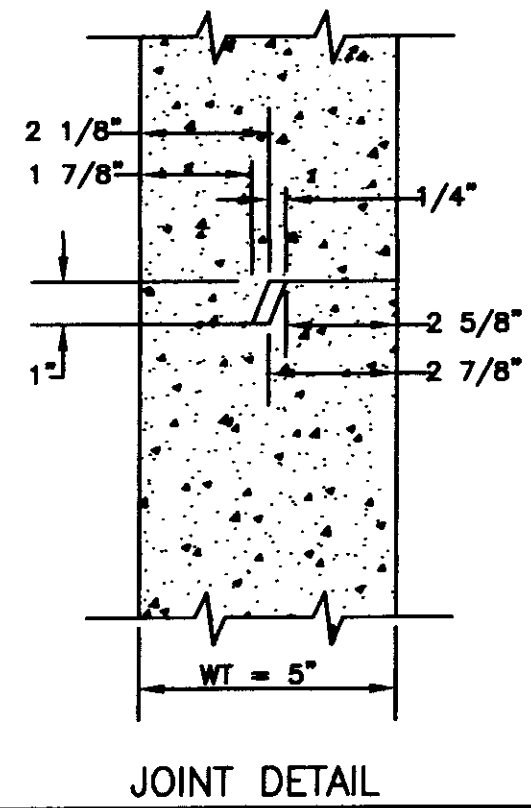
REINFORCEMENT CURB INLET EXTENSION TOP LEFT/RIGHT



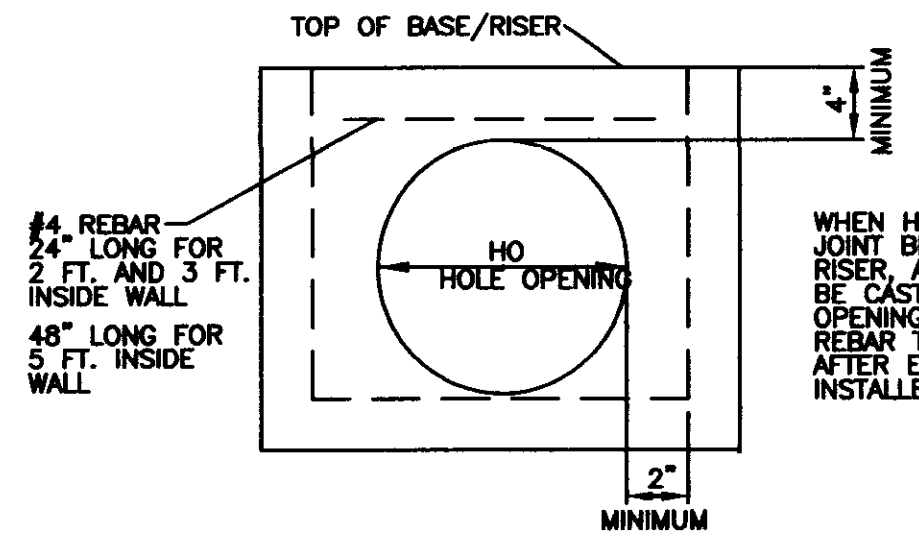
REINFORCEMENT CURB INLET EXTENSION TOP LEFT/RIGHT



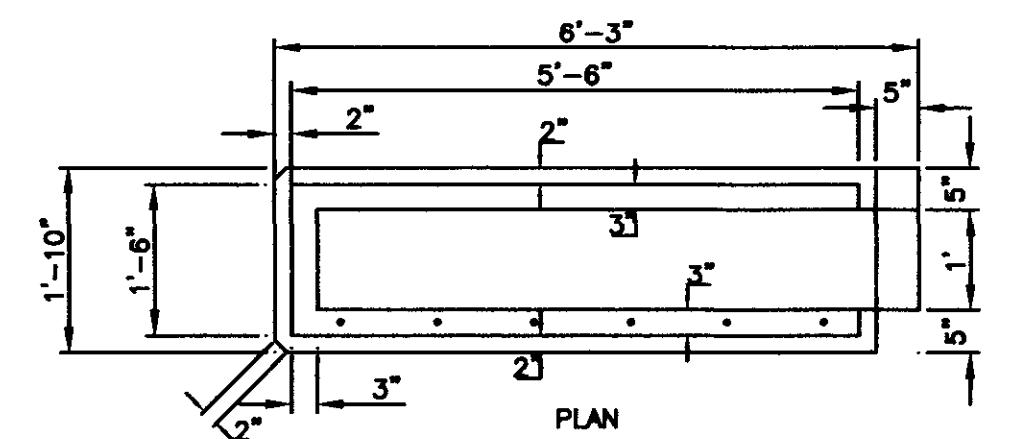
SECTION A-A



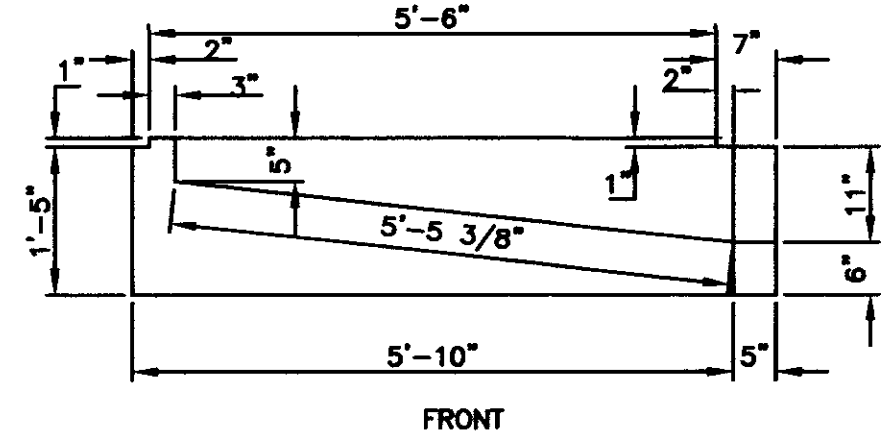
JOINT DETAIL



DETAIL FOR HOLE OPENING

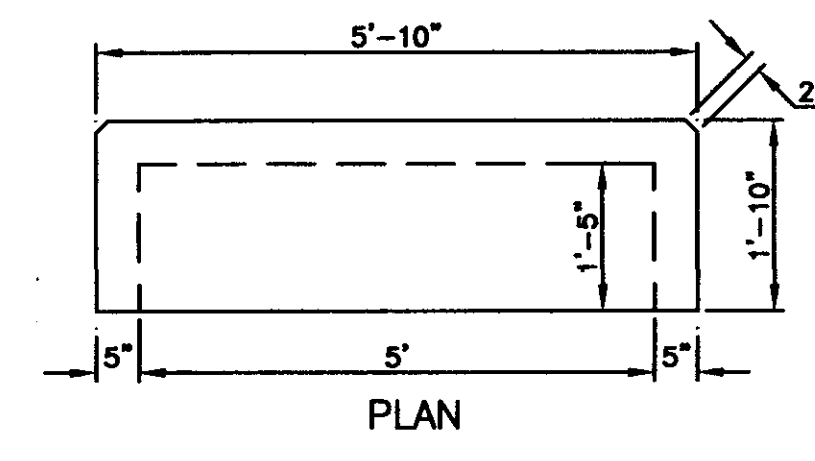


PLAN

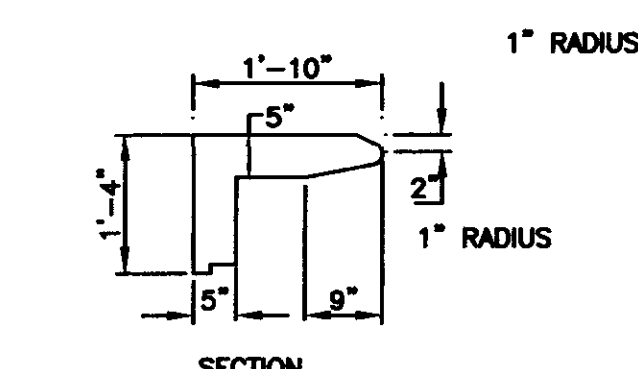


FRONT

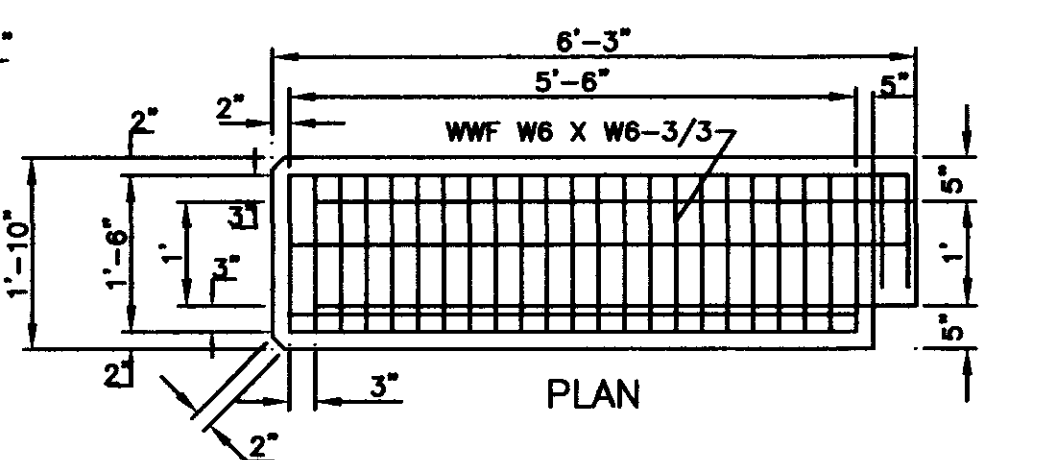
CURB INLET EXTENSION LEFT/RIGHT



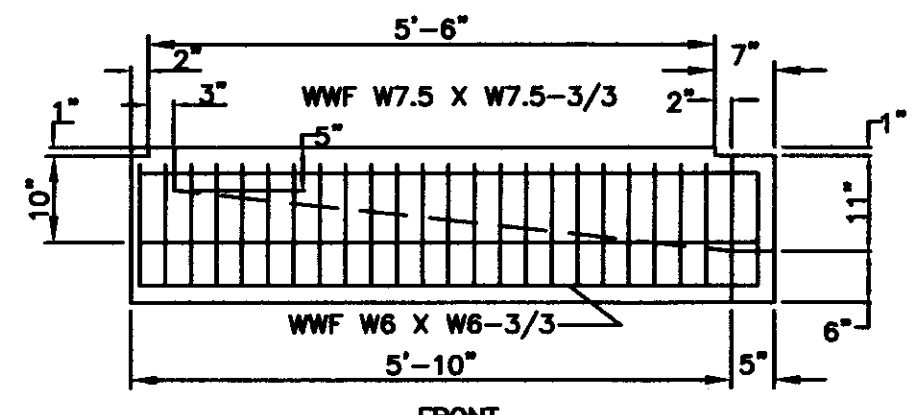
PLAN



CURB INLET EXTENSION TOP LEFT/RIGHT



PLAN



FRONT

REINFORCEMENT CURB INLET EXTENSION LEFT/RIGHT

GENERAL NOTES:

- CONCRETE SHALL HAVE COMPRESSIVE STRENGTH OF 4000 PSI MINIMUM AT 28 DAYS.
- REINFORCING FOR BOTTOM AND WALLS SHALL BE WELDED WIRE FABRIC, ASTM A-185, AND OF THE AREA AS SHOWN IN TABLE.
- REINFORCING FOR COVER SHALL BE WITH DEFORMED BARS, ASTM A615/A AND OF THE SIZE AS SHOWN IN TABLE.
- JOINT TO BE SEALED WITH PREFORMED JOINT COMPOUND, AASHTO SPECIFICATION M-198.
- 2 1/2" LIFTING HOLES TO BE LOCATED ON EACH SIDE OF BOX SECTIONS FOR HANDLING.
- GROUT FOR JOINING PIPE TO PRECAST UNITS WILL BE A COMMERCIAL MASONRY GROUT MEETING SPECIFICATIONS.
- WHEN INTERIOR RISER UNITS ARE REQUIRED, UNITS SHALL BE MARKED TO IDENTIFY EACH UNIT.

REVISION		BY		DATE	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
PRECAST UNITS
SS-2 PRECAST INLET
(30" CONCRETE ROUND PIPE AND UNDER)
(36" x 23") CONCRETE ARCH PIPE AND UNDER

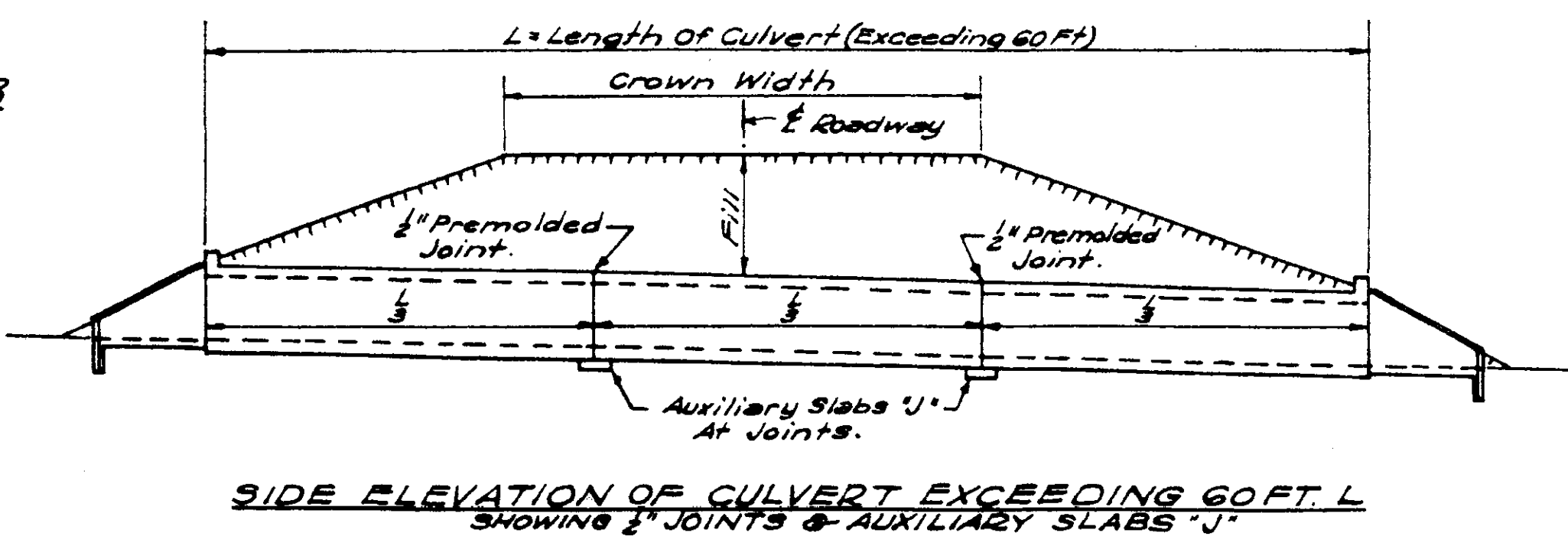
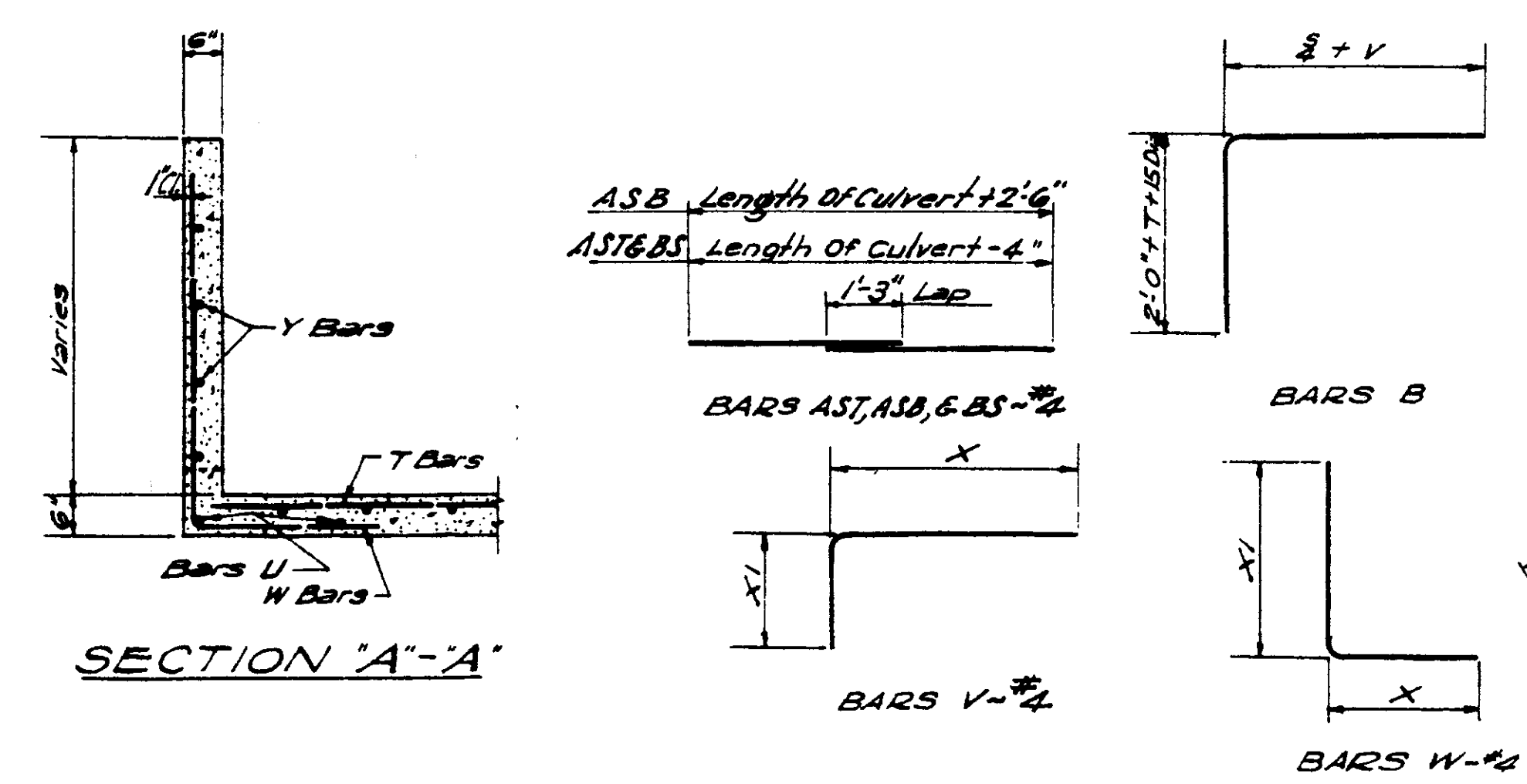
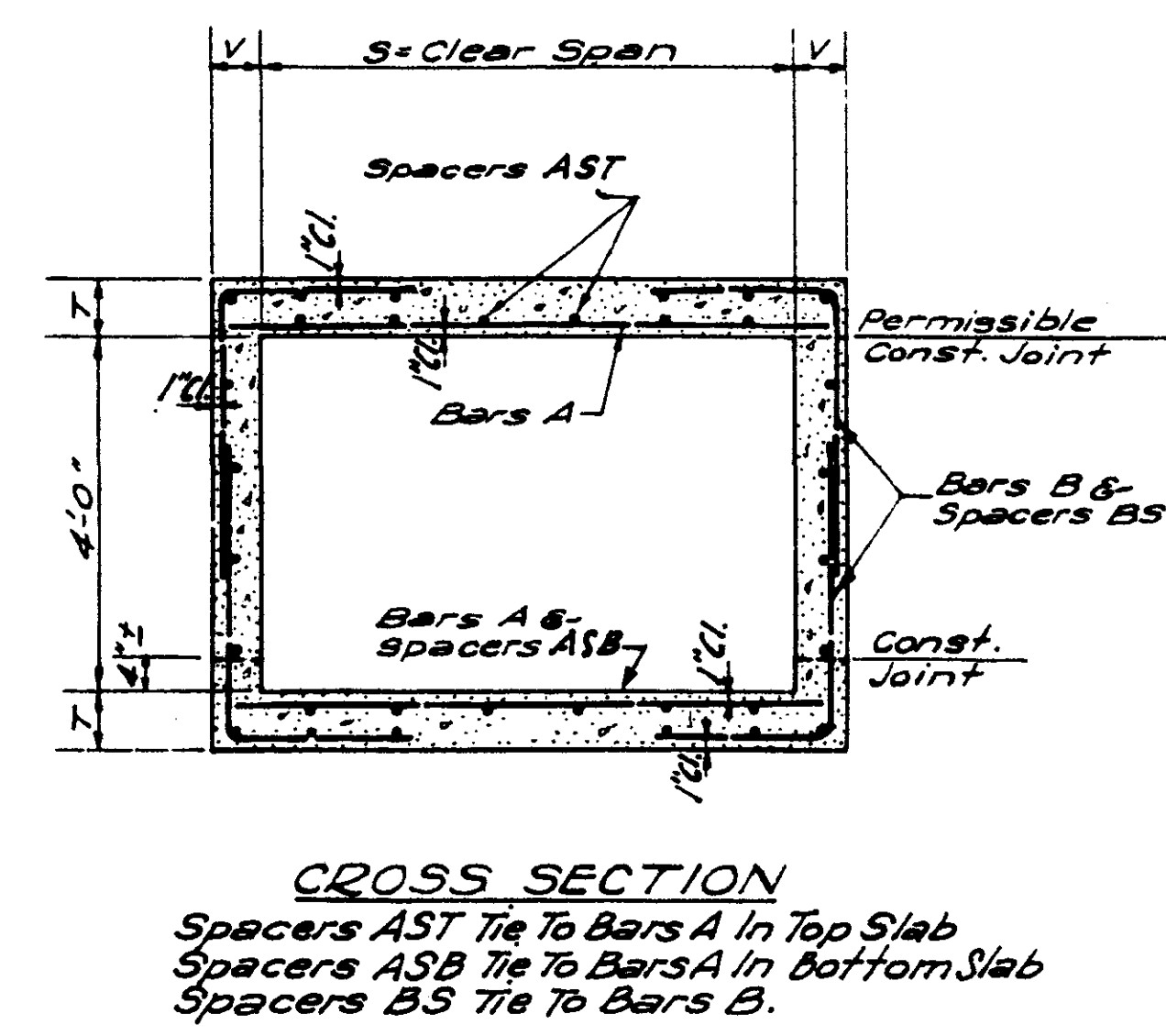
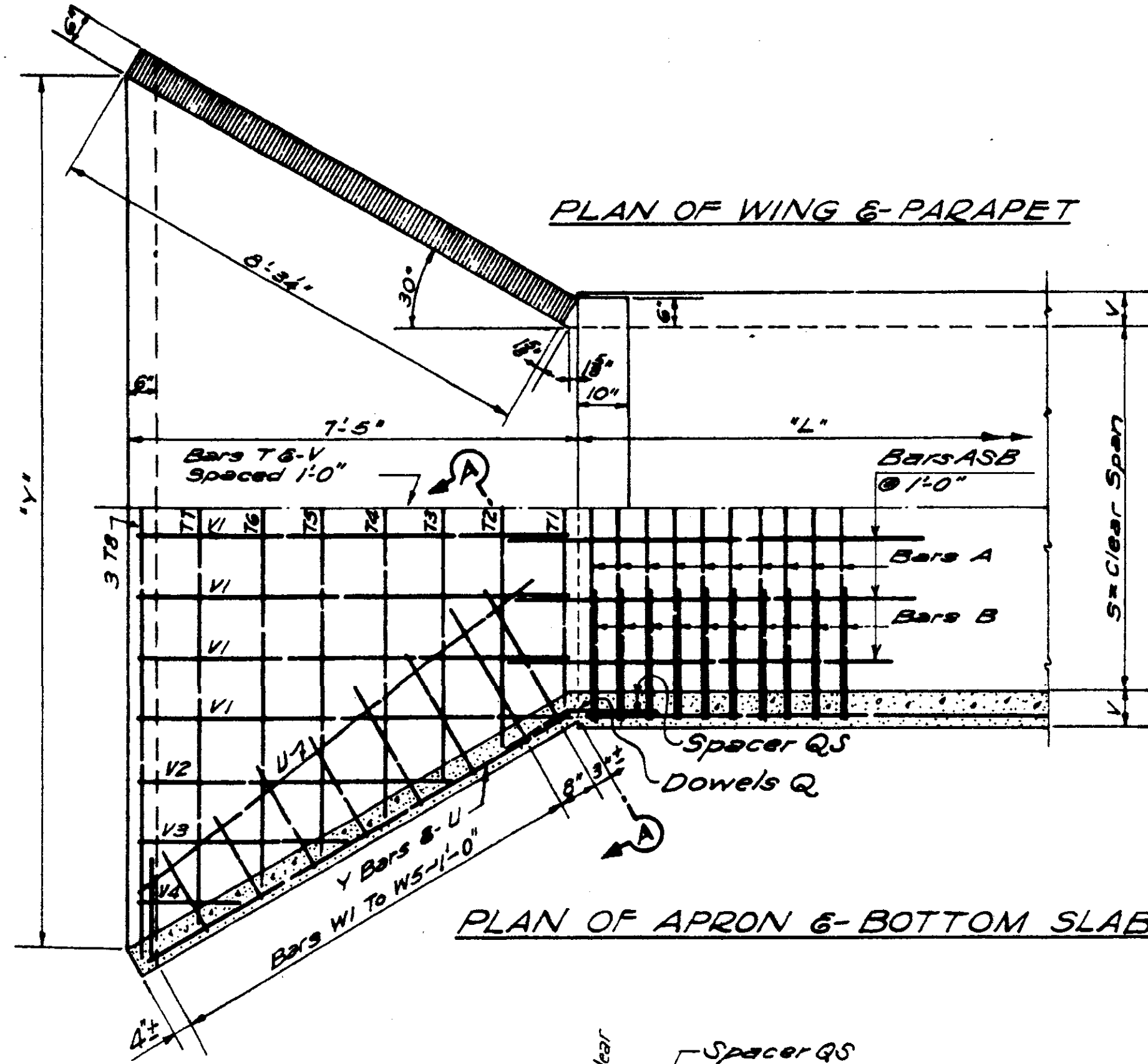
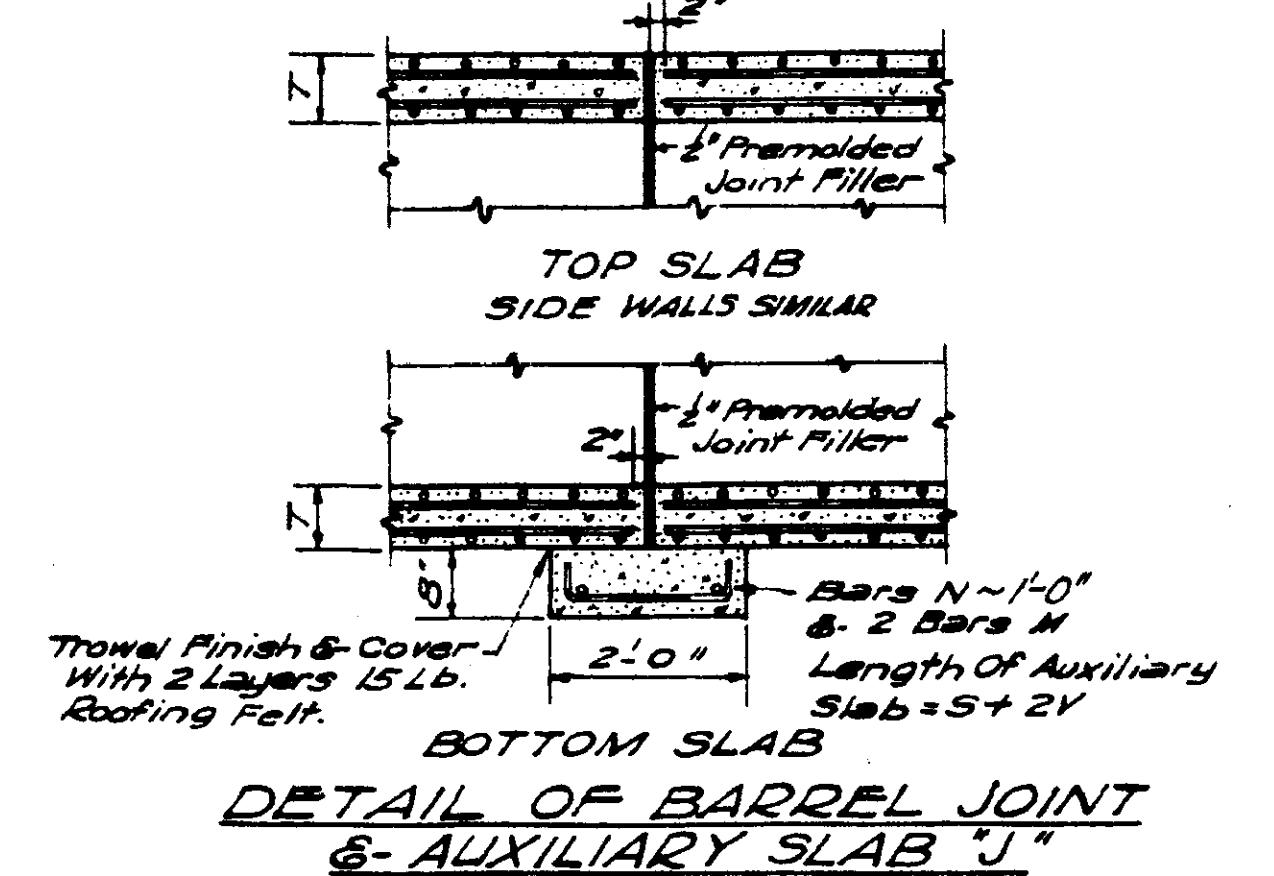
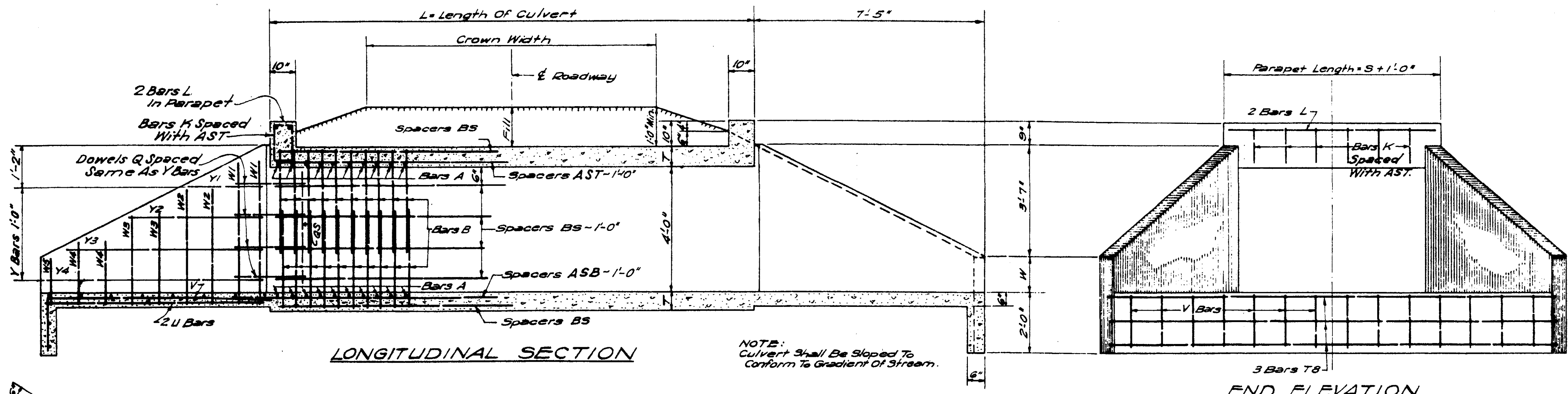
FILENAME:	PRECASTSS2.DWG
DESIGN TEAM:	CHECKED DATE:

WORKING NUMBER
PCU-2
SHEET NUMBER
36

DESIGN DATA
 Specifications: A.A.S.M.O. 1969
 Live Load: HS 15-44
 Unit Stresses: $f_s = 20,000 \text{ psi}$; $f_c = 1200 \text{ psi}$; $n = 10$

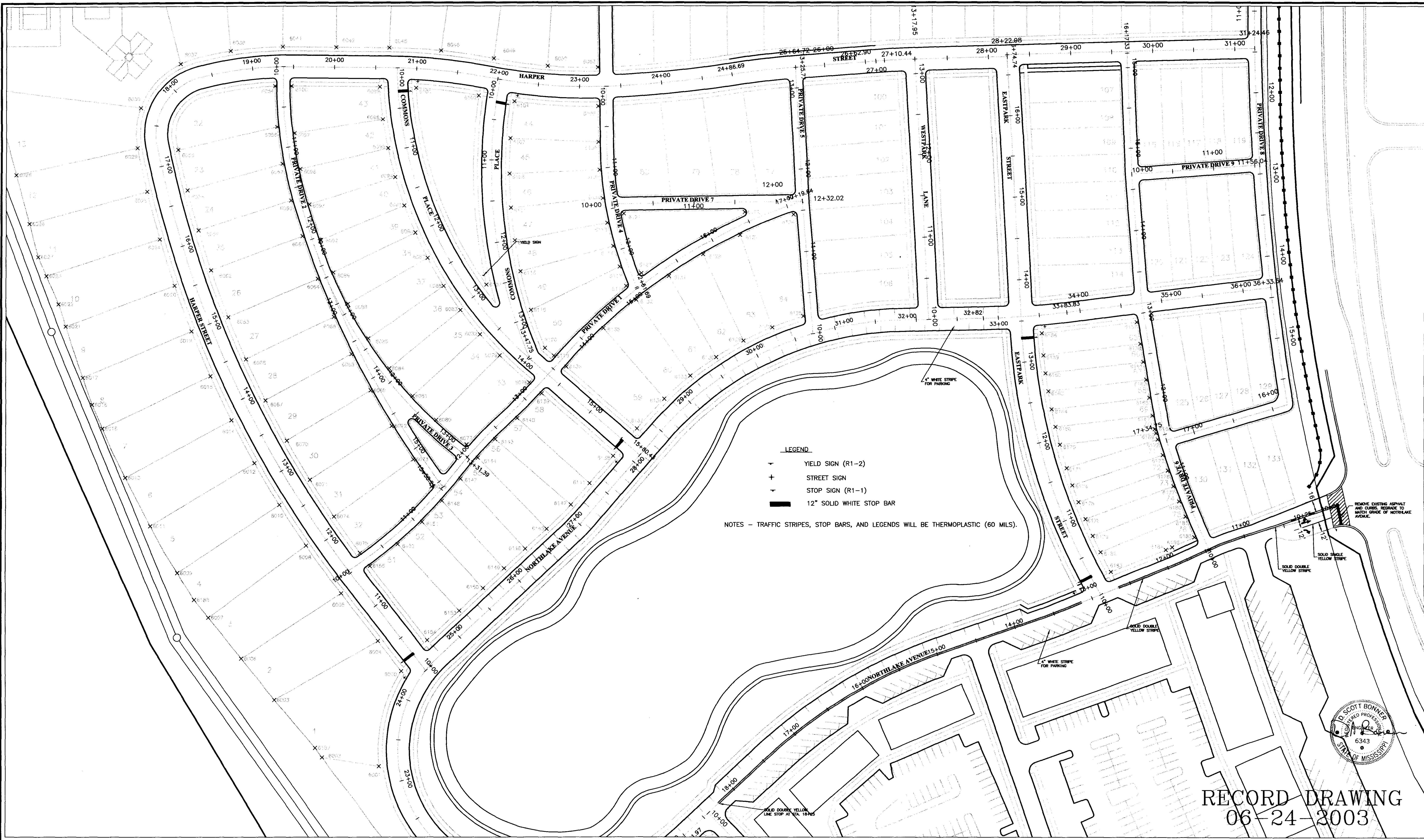
CLEAR MAX SPAN	MAX FILL	CULVERT DIMENSIONS				ESTIMATED QUANTITIES								BAR LIST FOR BARREL (L=40') & PARAPETS												BAR LIST 2 AUX. SLABS J													
		T	V	W	Y	CONCRETE CU. YD.	REINF. STEEL LB.	CONCRETE CU. YD.	REINF. STEEL LB.	CONCRETE CU. YD.	REINF. STEEL LB.	NO.	SIZE	SPAC.	LENGTH	NO.	SIZE	SPAC.	LENGTH	NO.	SIZE	SPAC.	LENGTH	NO.	SIZE	SPAC.	LENGTH	NO.	SIZE	SPAC.	LENGTH								
4'	23'	6 1/2"	6 1/2"	1'-0"	12'-5"	19.87	2,656	0.3644	52.9	0.50	30	1/28	#5	7 1/2"	4'-10"	476	#3	4"	4'-7"	16	2'-6"	4	3'-7"	4	4'-0"	11	4	4'-3"	16	4'-0"	11	8	3'-11"	4	4'-8"	4	4'-9"	12	2'-2"
5'	21'	7 1/2"	6 1/2"	1'-0"	13'-5"	23.41	3,343	0.4421	68.9	0.60	36	1/60	#5	6"	5'-10"	320	#4	6"	5'-1"	16	2'-6"	4	3'-7"	5	4'-0"	11	5	4'-3"	16	4'-0"	11	10	4'-1"	4	5'-8"	4	5'-9"	14	2'-2"
6'	16'	7 1/2"	6 1/2"	1'-0"	14'-5"	25.65	3,763	0.4884	78.4	0.70	41	1/60	#5	6"	6'-10"	320	#4	6"	5'-4"	16	2'-6"	4	3'-7"	6	4'-0"	11	6	4'-3"	16	4'-0"	11	12	4'-1"	4	6'-8"	4	6'-9"	16	2'-2"
7'	14'	8"	7"	1'-2"	15'-5"	29.56	4,440	0.5761	94.4	0.81	47	1/20	#6	8"	7'-11"	240	#5	8"	5'-9"	16	2'-6"	4	3'-7"	7	4'-0"	11	7	4'-3"	16	4'-0"	11	14	4'-2"	4	7'-8"	4	7'-10"	18	2'-2"
8'	11'	8 1/2"	7"	1'-2"	16'-5"	33.08	5,109	0.6538	110.4	0.91	53	1/32	#6	7 1/4"	8'-11"	264	#5	7 1/4"	6'-1"	16	2'-6"	4	3'-7"	8	4'-0"	11	8	4'-3"	16	4'-0"	11	16	4'-3"	4	8'-8"	4	8'-10"	20	2'-2"
9'	10'	9"	7 1/2"	1'-3"	17'-5"	37.52	5,791	0.7546	126.4	1.01	58	1/42	#6	6 3/4"	10'-0"	284	#5	6 3/4"	6'-5"	16	2'-6"	4	3'-7"	9	4'-0"	11	9	4'-3"	16	4'-0"	11	18	4'-4"	4	9'-8"	4	9'-11"	22	2'-2"
10'	8'	9 1/2"	7 1/2"	1'-3 1/2"	18'-5"	41.53	6,612	0.8449	145.0	1.11	64	1/8	#7	9"	11'-0"	320	#5	6"	6'-8"	16	2'-6"	4	3'-7"	10	4'-0"	11	10	4'-3"	16	4'-0"	11	20	4'-5"	4	10'-8"	4	10'-11"	24	2'-2"

BAR SIZE	NO. REQUIRED										DIM. X	DIM. X1	LENGTH
	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'			
T1	#4	2	2	2	2	2	2	2	2	2			8'-8"
T2	#4	2	2	2	2	2	2	2	2	2			8'-1-8"
T3	#4	2	2	2	2	2	2	2	2	2			8'-2-10"
T4	#4	2	2	2	2	2	2	2	2	2			8'-4-0"
T5	#4	2	2	2	2	2	2	2	2	2			8'-5-2"
T6	#4	2	2	2	2	2	2	2	2	2			8'-6-4"
T7	#4	2	2	2	2	2	2	2	2	2			8'-7-6"
T8	#4	6	6	6	6	6	6	6	6	6			8'-8-8"
U	#4	8	8	8	8	8	8	8	8	8			8'-0"
V1	#4	12	14	16	18	20	22	24	26	28	7'-1"	1'-8"	8'-9"
V2	#4	4	4	4	4	4	4	4	4	4	5'-4"	1'-8"	7'-0"
V3	#4	4	4	4	4	4	4	4	4	4	3'-8"	1'-8"	5'-4"
V4	#4	4	4	4	4	4	4	4	4	4	1'-11"	1'-8"	3'-7"
W1	#4	8	8	8	8	8	8	8	8	8	2'-6"	W+3'-5"	W+4'-10"
W2	#4	8	8	8	8	8	8	8	8	8	2'-3"	W+2'-7"	W+3'-7"
W3	#4	8	8	8	8	8	8	8	8	8	1'-7"	W+10"	W+2'-5"
W4	#4	8	8	8	8	8	8	8	8	8	1'-7"	W+5"	W+2'-0"
Y1	#4	4	4	4	4	4	4	4	4	4			2'-2"
Y2	#4	4	4	4	4	4	4	4	4	4			4'-6"
Y3	#4	4	4	4	4	4	4	4	4	4			6'-9"
Y4	#4	4	4	4	4	4	4	4	4	4			8'-0"



GENERAL NOTES:
 Specifications: Mississippi State Highway Department.
 All Concrete Shall Be Class 'B'.
 Concrete Surfaces Shall Be Finished In Accordance With Sub-Section 804.2.
 All Exposed Corners Shall Be Chamfered 3/8" Inch.
 Reinforcing Steel Shall Be Placed 1" Clear Minimum From The Surface Of The Concrete And Shall Be Adequately Supported From The Forms.
 All Bars Shall Be Accurately Spaced And Securely Wired At Each Intersection Before Placing Concrete.
 Horizontal Construction Joints Shall Be Placed Only At The Locations Shown, And The Concrete Shall Be Allowed To Set A Minimum Period Of 2 Hours Before Continuing The Pour.
 Where The Length Of The Culvert Exceeds 60 Feet Place Vertical Expansion Joints And Auxiliary Slabs 'J' At The 3 Points.
 The Quantities Shown Will Be Used As The Basis For Final Payment Unless This Draft Is Modified.

MISSISSIPPI STATE HIGHWAY DEPARTMENT
BOX CULVERT DRAWING
 SINGLE CELL
 HEIGHT 4 FT.
 SPANS 4-10 FT.
 WORKING NUMBER BS-4
 SHEET NUMBER 37
 DETAILED M.H.B. CHECKED J.V.H. ISSUED G.S.H. DATE 1-1-45
 TRACED L.B.R. DATE Jan. 1, 1945



LEGEND

- YIELD SIGN (R1-2)
- STREET SIGN
- STOP SIGN (R1-1)
- 12" SOLID WHITE STOP BAR

NOTES - TRAFFIC STRIPES, STOP BARS, AND LEGENDS WILL BE THERMOPLASTIC (60 MILS).



RECORD DRAWING
06-24-2003

DCI **DIVERSIFIED CONSULTANTS, INC.**
395 EDGEWOOD TERRACE
JACKSON, MS 39206

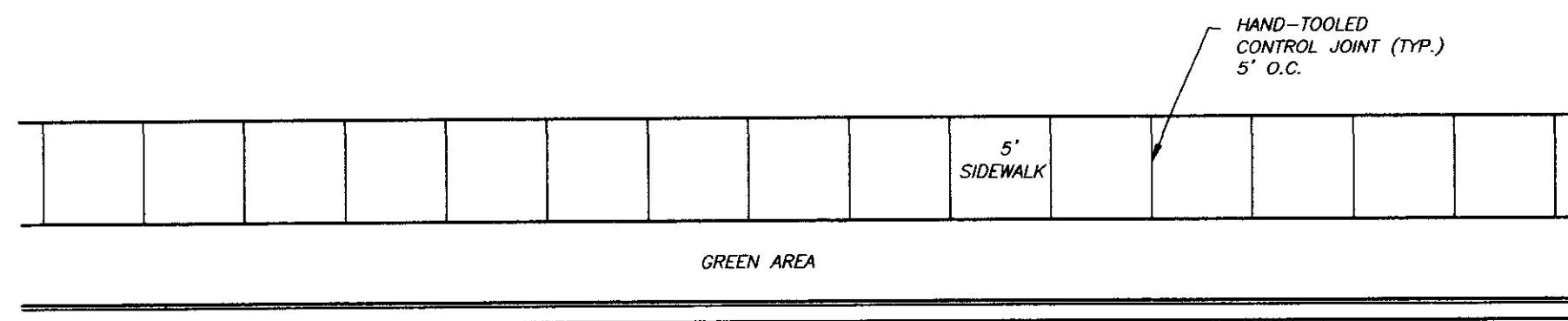
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THE TOWNSHIP AT COLONY PARK
RIDGELAND, MISSISSIPPI

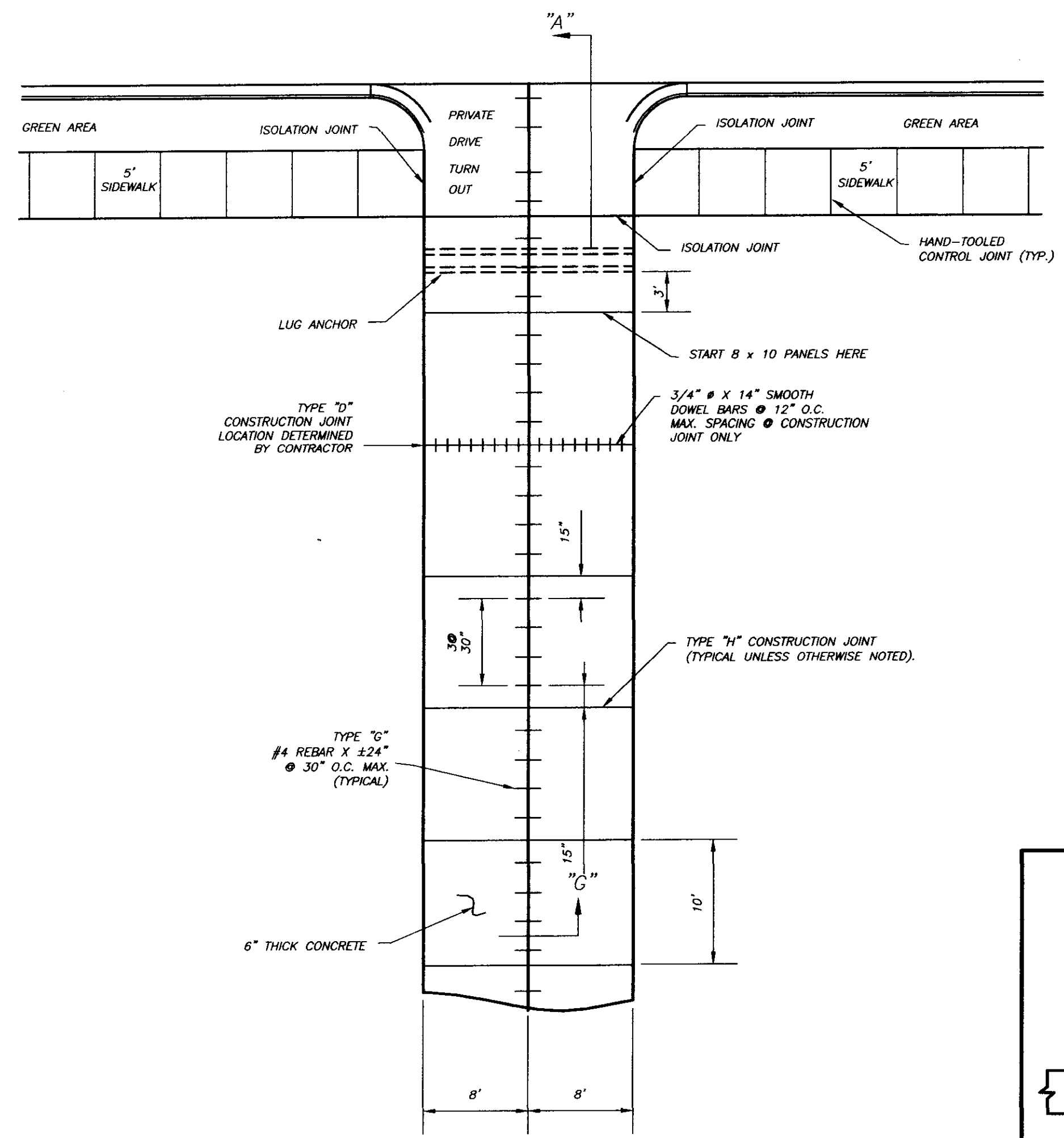
NO.	DATE	BY
10-10-02	A.U.J.	

SCALE: 1" = 50'
A.U.J.
D.S.B.

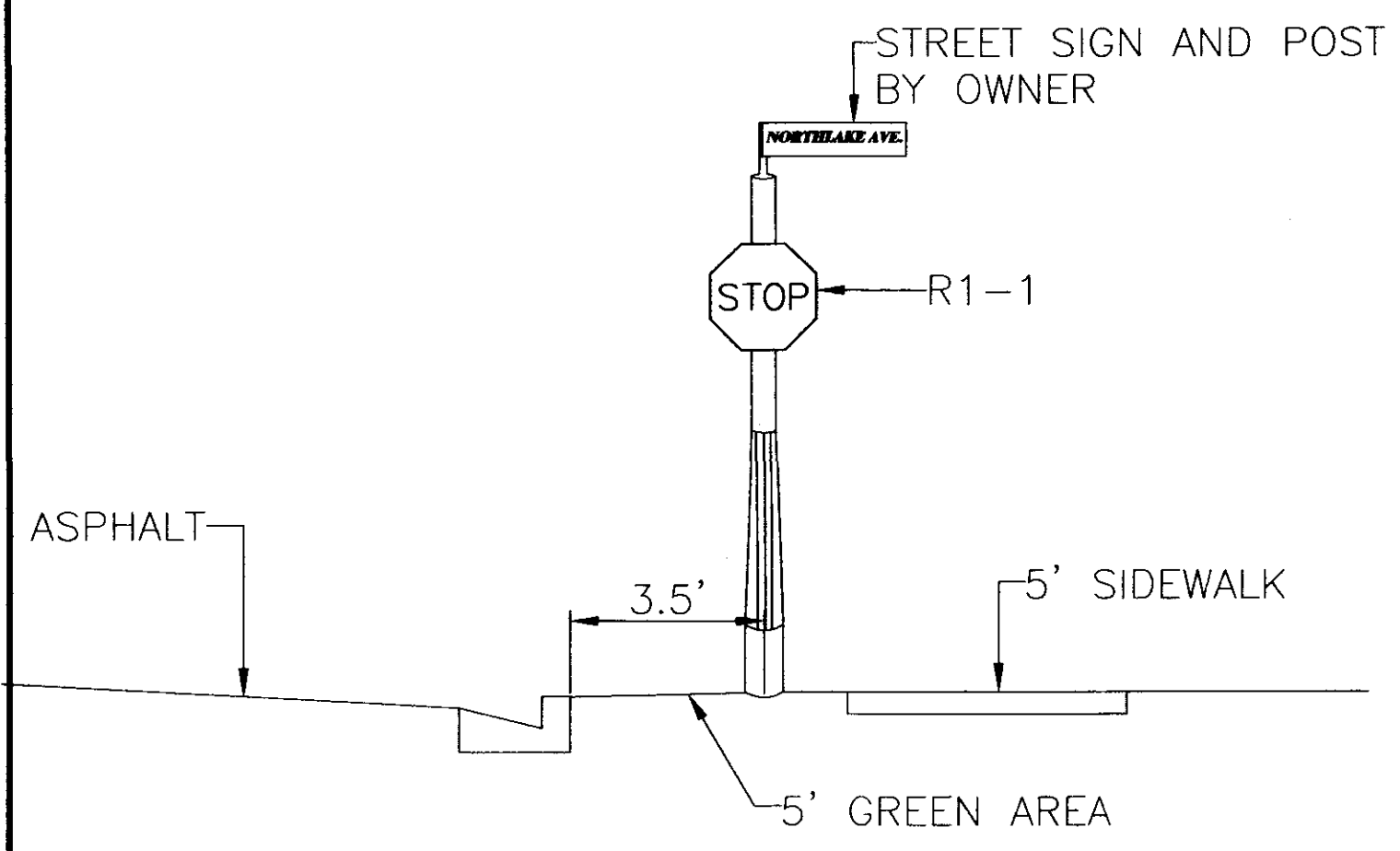
SHEET TITLE
STOP BARS, STRIPING, AND STREET SIGNS
FILE NAME
38



ASPHALT STREET



PRIVATE DRIVES

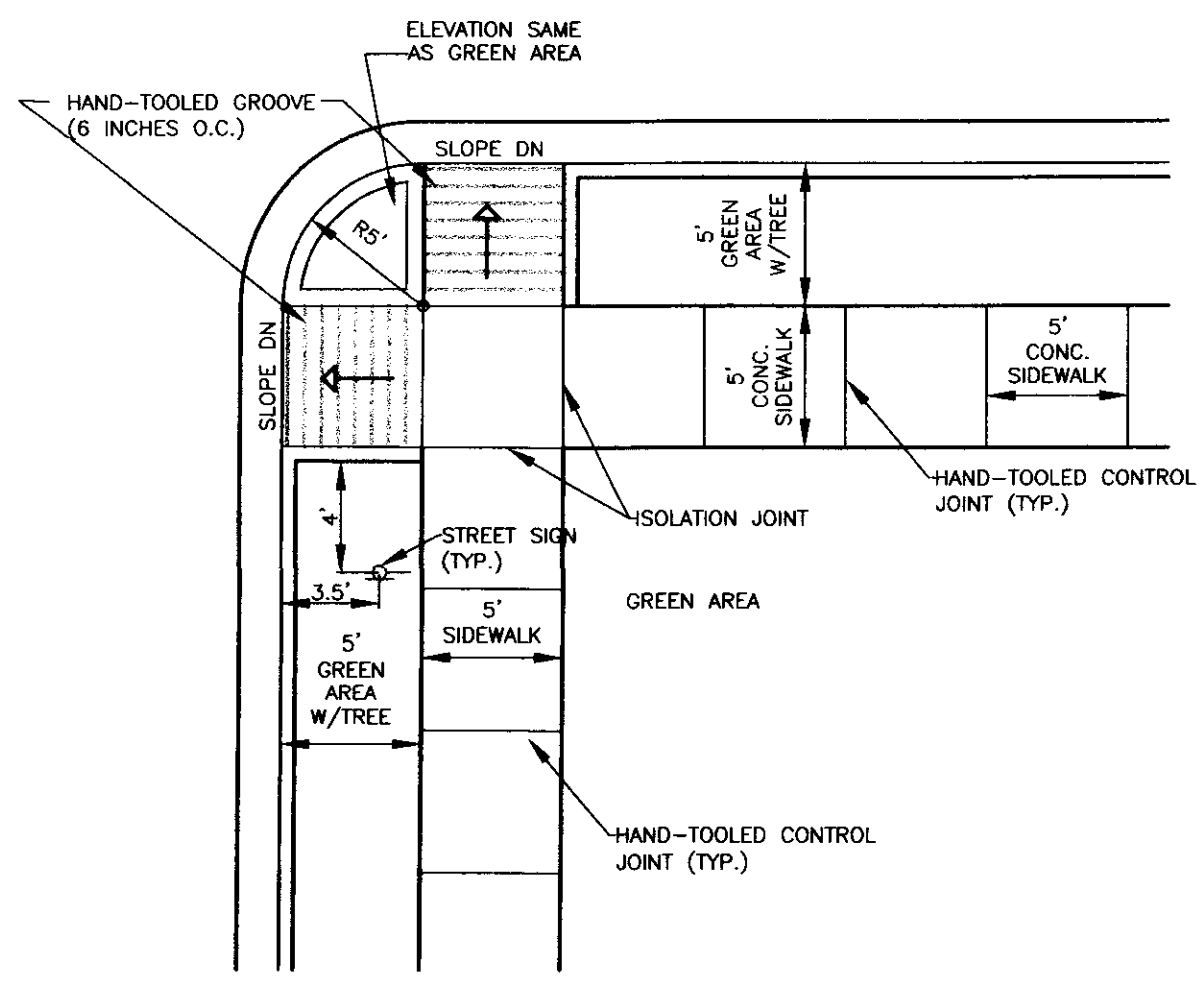


STOP & STREET SIGN LOCATION
STREET SIGN IS 4' BEHIND EDGE OF SIDEWALK. (SEE TYPE 1)

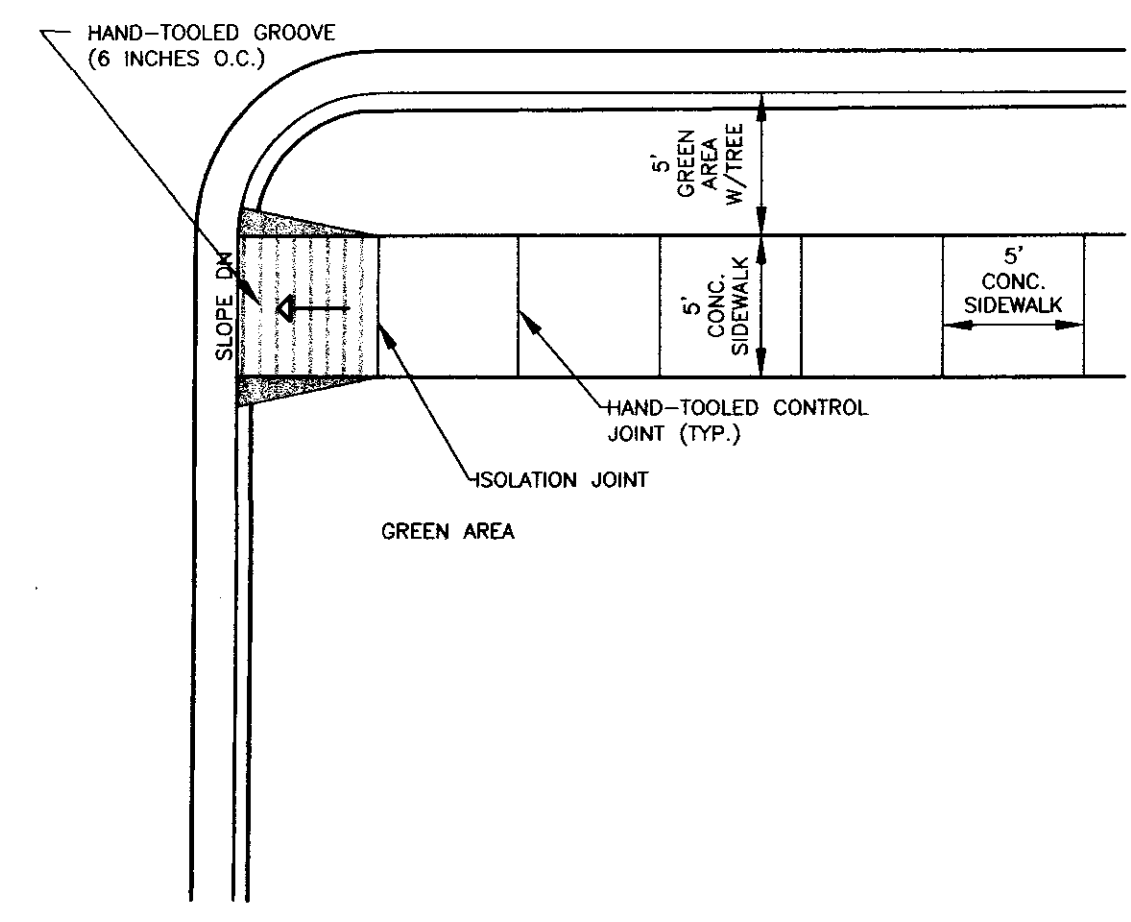
PRODUCT SPECIFICATIONS:

REFERENCE: MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, 1990 EDITION

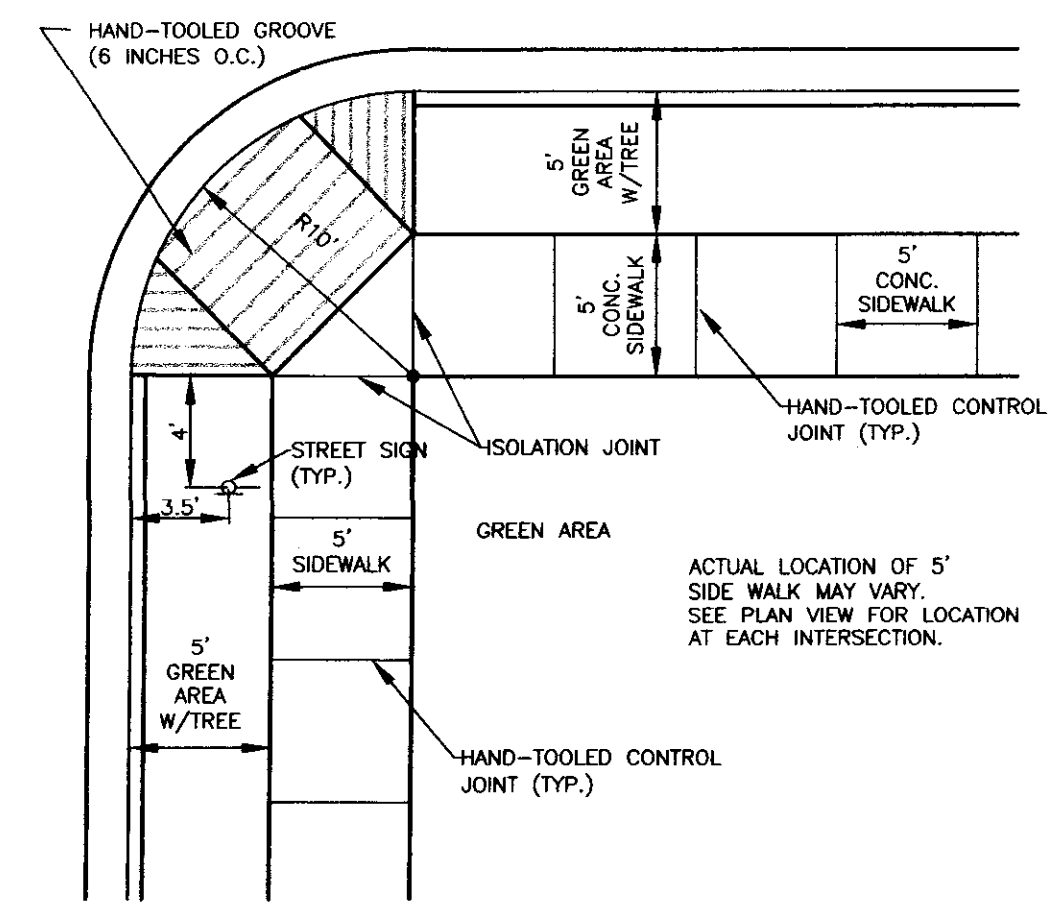
1. SEALANT SHALL BE SILICONE TYPE CONFORMING TO THE REQUIREMENTS OF SECTION 707.02.1.4, SILICONE SEALANT.
2. BACKER RODS SHALL CONFORM TO THE REQUIREMENT OF SECTION 707.02.1.5, BACKER ROD FOR USE WITH HOT OR COLD POURED JOINT SEALANT.
3. PERFORMED JOINT FILLER SHALL CONFORM TO SECTION 707.02.2, PERFORMED JOINT FILLER ASSHTO DESIGNATION M 213 FOR BITUMINOUS TYPES.
4. JOINTS SHALL BE SAWED USING AN EARLY-ENTRY DRY SAW.



TYPE 1

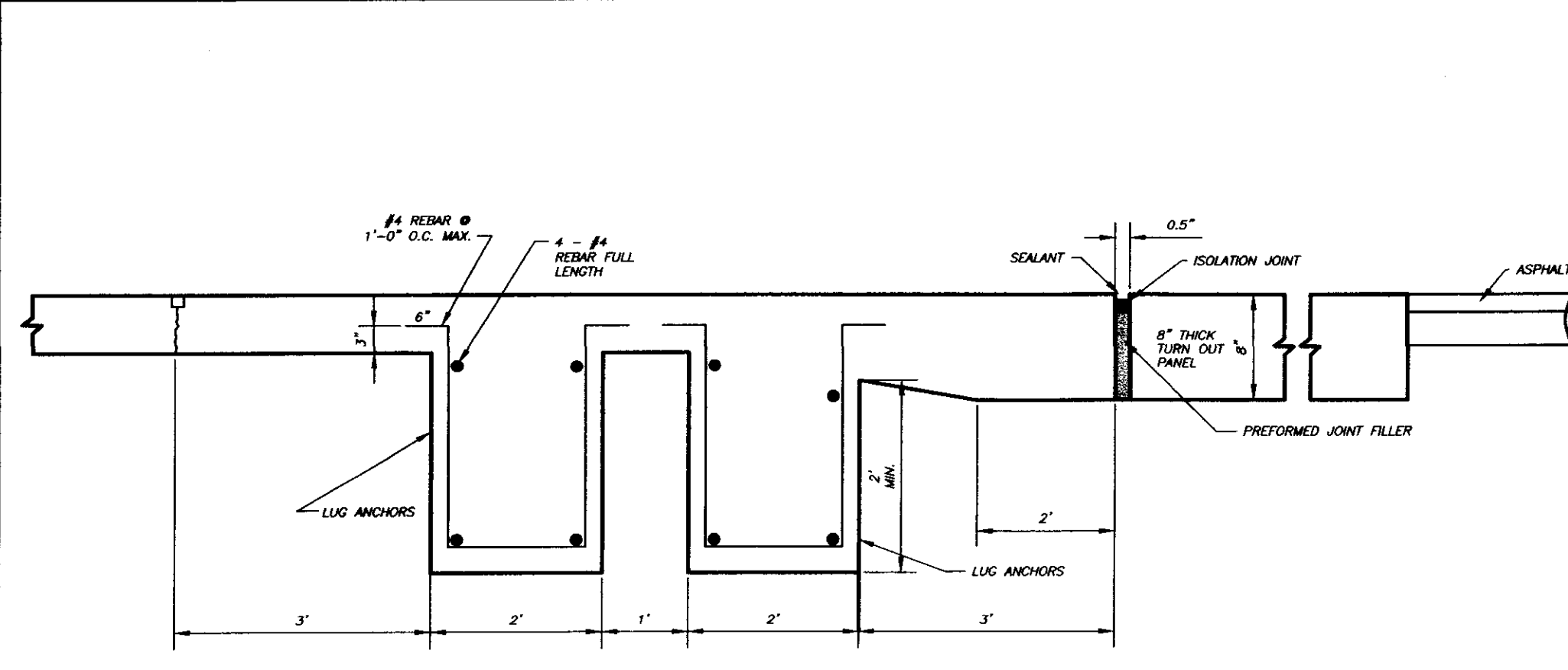


TYPE 2

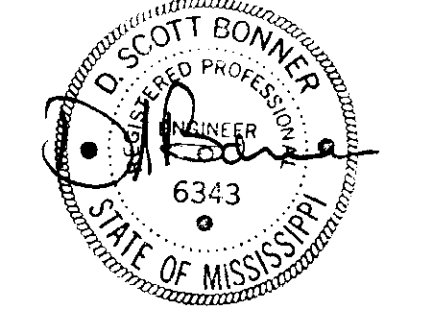
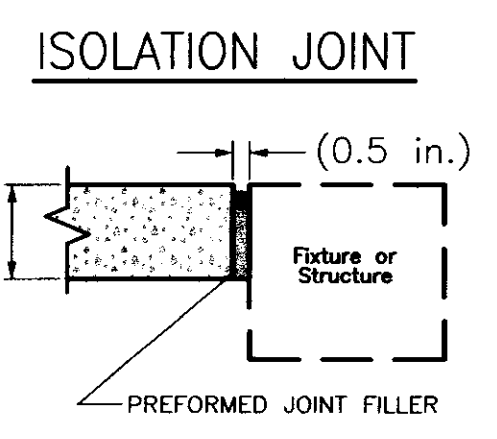
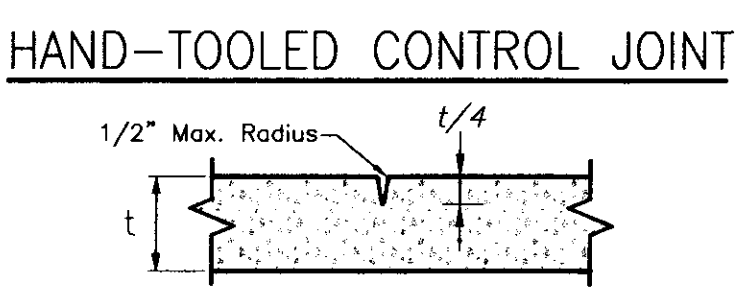
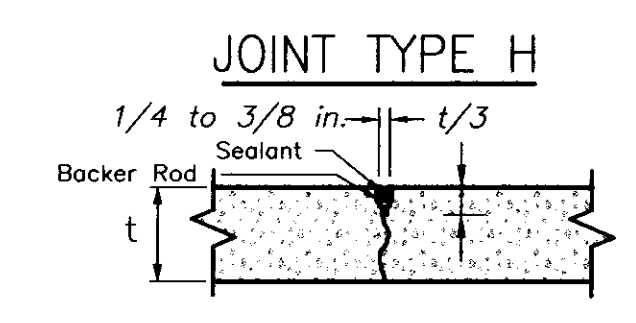
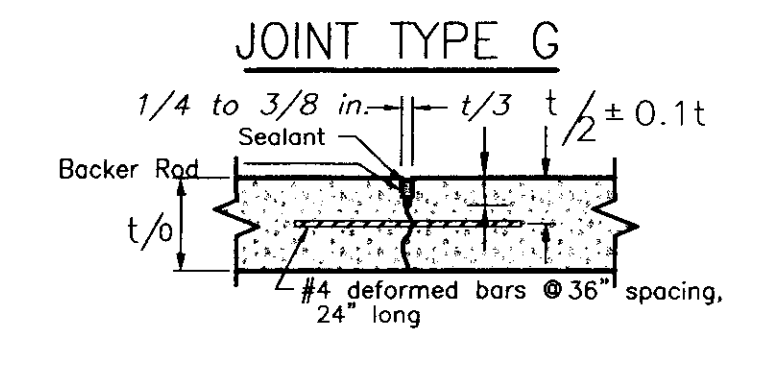
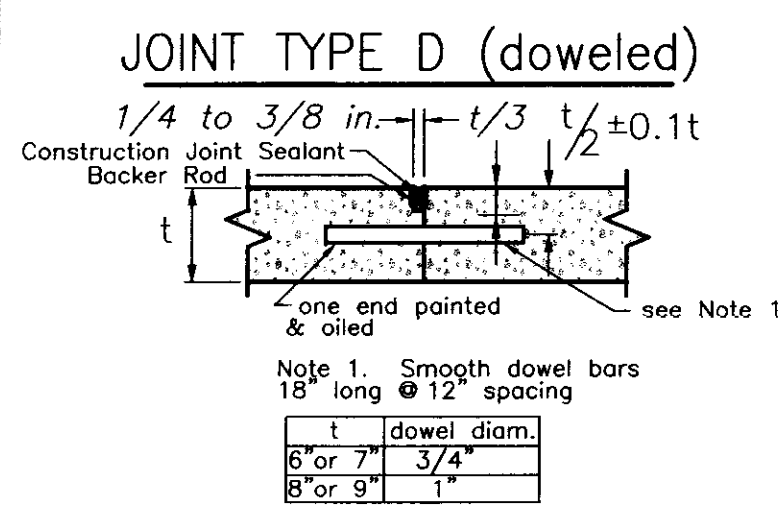


TYPE 3

CURB-CUT DETAILS
TO DETERMINE LOCATION OF EACH CURB-CUT TYPE SIDEWALK RAMP CONDITION, SEE SHEET 3 STREET LAYOUT.
TO DETERMINE CURB-CUT RADIUS TYPE, SEE SHEET 3-STREET LAYOUT.



LUG ANCHORS
SECTION "A"



RECORD DRAWING
06-24-2003

DCI DIVERSIFIED CONSULTANTS, INC.
CONSULTING ENGINEERS ... CITY, COUNTY, AND REGIONAL PLANNERS
395 EDGEWOOD TERRACE
JACKSON, MS 39206

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THE TOWNSHIP AT COLONY PARK
RIDGELAND, MISSISSIPPI

REVISIONS		
NO.	DATE	BY
1	10-10-02	AUJ
2		
3		
4		
5		
6		

SCALE	
NO	SCALE
DATE	
APPROVED BY	D.S.B.
DRAWN BY	A.U.J.
CHECKED BY	D.S.B.
TRACED BY	

SHEET TITLE	
CONCRETE PAVING AND SIDEWALK DETAILS	
FILE NAME	SHEET NO. 39