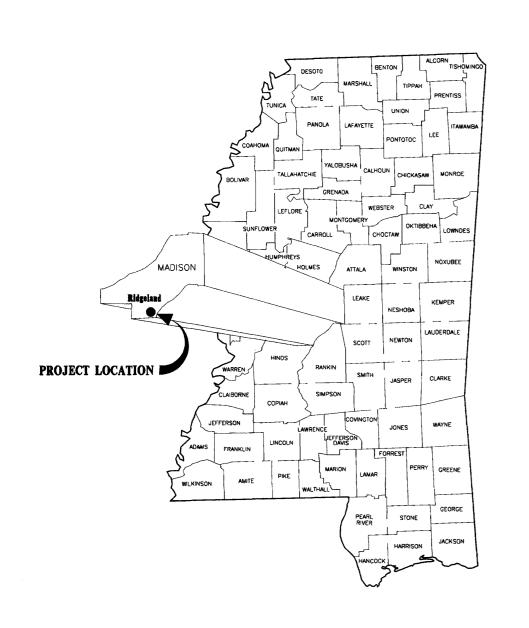
CONSTRUCTION PLANS FOR AN EXTENSION OF

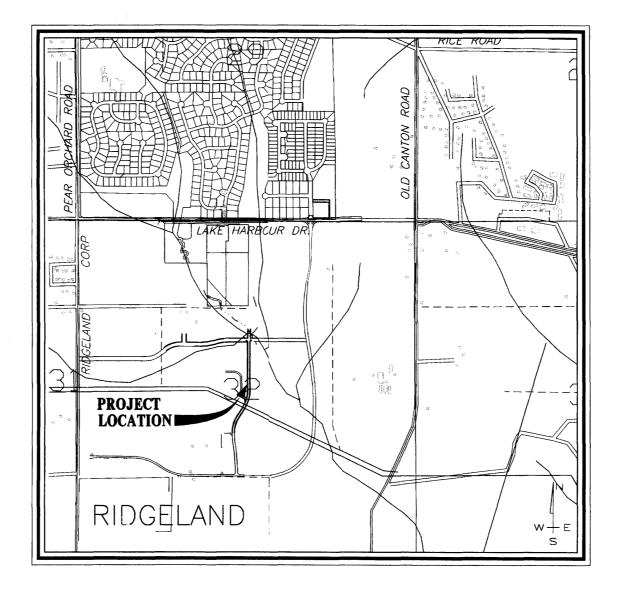
AVERY BOULEVARD NORTH

A SPECIAL IMPROVEMENTS PROJECT OF THE CITY OF RIDGELAND MADISON COUNTY, MISSISSIPPI

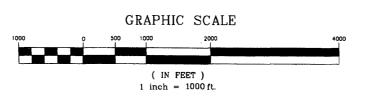
FOR

Colonial Heights Baptist Church Entergy Mississippi, Inc. Donald B. McGehee Virginia McGehee Friend





VICINITY MAP



RECORD DRAWING

BY: Khamer DATE: 5/20/04

Revised August 28, 2003

Prepared By:





MATERIAL REQUIREMENTS

STREETS

CONCRETE FOR CURB AND GUTTER SHALL BE 3,000 PSI MINIMUM.

HOT BITUMINOUS PAVEMENT BASE COURSE MIXTURES AND MATERIALS SHALL MEET SPECIFICATION BB-1, TYPE 6 OF THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST

HOT BITUMINOUS PAVEMENT SURFACE COURSE MIXTURES AND MATERIALS SHALL MEET SPECIFICATION SC-1, TYPE 8 OF THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST

STORM DRAINAGE

PIPE - REINFORCED CONCRETE PIPE, ROUND ASTM C-76 OR ARCH, ASTM C-506. PIPE SHALL NOT HAVE LIFT HOLES.

JOINTS - JOINTS FOR ROUND PIPE SHALL BE RUBBER GASKETS. JOINTS FOR ARCH PIPE SHALL BE BITUMINOUS PLASTIC CEMENT OR PRE-FORMED JOINT COMPOUND, ALL JOINTS SHALL BE WRAPPED WITH 24" STRIP OF FILTER FABRIC AROUND OUTSIDE OF PIPE.

WATER

MAIN -PVC C900 CLASS 150 OR DUCTILE IRON CLASS 52

TYLON JOINTS WITH RUBBER GASKET ANSI/AWWA STANDARDS. JOINTS -

DUCTILE IRON, COMPACT FITTINGS MECHANICAL JOINT -ANSI/AWWA C153/A21.53-88. MECHANICAL JOINT FLANGES FITTINGS -

DUCTILE IRON METROSEAL 250 RESILIENT SEATED GATE

VALVES - AWWA C509.

FIRE HYDRANT - IMPROVED TRAFFIC TYPE W/ONE (1) 5-1/4" PUMPER AND TWO (2) 2-1/2" OPENINGS AS MANUFACTURED BY MUELLER COMPANY OR

EQUAL, W/ NSF THREADS.

TRACE WIRE - NO. 12 GUAGE, THHN, INSULATED FOR DIRECT BURY.

VALVE BOXES - CAST IRON, 3 PIECE ADJUSTABLE STAMPED W/ "WATER".

SERVICE LINE - 1" MINIMUM, TYPE K COPPER, ASTM B88; POLYETHYLENE (PE), AWWA C901; OR POLYBUTYLENE (PB), AWWA C902.

SVC SADDLE - FORD STYLE 304, OR APPROVED EQUAL.

CORP. STOPS - MUELLER NO. H-15000 OR APPROVED EQUAL.

CURB STOPS - 1"x3/4" FORD #B43-342W

METER BOX - PLASTIC METER BOX W/ METAL FLIP TOP READING COVER.

CASING -0.250" STEEL

SPACERS -POLYETHYLENE OR AS APPROVED.

SEWER

MAIN & SERVICE - PVC, SDR-26, ASTM D-3034 OR DUCTILE IRON,

PROTECTO 401 CERAMIC EPOXY LINED.

JOINTS -SLIP ON W/LOCKED-IN RUBBER GASKET, ASTM F-477.

PIPE BOOTS -

PRE CAST CONCRETE, ASTM C-478. COAL TAR EPOXY

MANHOLES -COATING REQUIRED ON INTERIOR AND EXTERIOR OF

MANHOLE SECTIONS AND ON MANHOLE STEPS.

KOR-N-SEAL MOLDED RUBBER CONNECTORS, OR EQUAL. FRAME & COVER -CAST IRON, ASTM A-78 OR EQUAL.

GENERAL NOTES

- 1. STREET SUB GRADE AREAS WHERE EXPANSIVE CLAYS (CH) ARE ENCOUNTERED WITHIN 4' OF FINISHED GRADE SHALL BE UNDERCUT AND BACK FILLED AS REQUIRED TO SEPARATE PAVEMENT FROM EXPANSIVE CLAYS BY A MINIMUM 3 FOOT THICK LAYER OF SELECT SILTY CLAYS (CL) OR SANDY CLAYS (CL) HAVING A LIQUID LIMIT OF LESS THAN 40 AND A PI WITHIN THE RANGE OF 8 TO 20. THE BACK FILL AND FILL MATERIALS SHOULD BE SPREAD IN LOOSE LIFTS HAVING A MAXIMUM THICKNESS OF 9 IN. AND COMPACTED TO NOT LESS THAN 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM. D. 698) AT OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) AT MOISTURE CONTENTS WITHIN 3 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT. STABILITY MUST BE EVIDENT DURING COMPACTION OF EACH LIFT BEFORE ANY SUBSEQUENT LIFTS OF FILL OR BACK FILL MATERIAL ARE ADDED.
- UNDERCUTTING, BACK FILLING, LIME TREATMENT (IF USED) AND MECHANICAL TRENCH COMPACTION SHALL EXTEND A MIN. OF 1 FOOT BEYOND BACK OF CURB OR EDGE OF PAVEMENT.
- 3. PRIOR TO PLACING ASPHALT BASE MATERIAL, PAVING CONTRACTOR SHALL 1) FINE-GRADE THE SUB GRADE MATERIAL TO THE PROPER SECTION TO PERMIT PLACEMENT OF THE REQUIRED THICKNESS OF BASE COURSE; 2) COMPACT AND PROOF-ROLL SUB GRADE TO ACHIEVE STABILITY; AND 3) ENSURE REQUIRED SUB GRADE DENSITY HAS BEEN ACHIEVED AND VERIFIED BY SOILS TESTING LABORATORY.

CURB AND GUTTER

- 1. CURB AND GUTTER SHALL BE 24" STANDARD ON INSIDE OF ISLANDS AND 24" ROLL OVER ALONG OUTSIDE OF STREETS. (SEE DETAIL).
- 2. SUB GRADE BENEATH CURB AND GUTTER SHALL BE FINE GRADED AND COMPACTED TO ACHIEVE STABILITY UNDER PRESSURE OF THE REAR WHEEL LOADING OF A MOTOR GRADER MOVING SLOWLY OVER THE CURB AND GUTTER SUB GRADE.
- 3. AFTER FORMS AND/OR CURB AND GUTTER STRING LINES HAVE BEEN SET AND BEFORE CONCRETE IS POURED, CONTRACTOR SHALL VERIFY THAT ALL GUTTERS DRAIN TO INLETS.
- EXPANSION JOINTS IN CURB AND GUTTER SHALL BE 1/2" JOINT MATERIAL PLACED AT 60' (MAXIMUM) INTERVALS.
- 5. CONTRACTION JOINTS IN CURB AND GUTTER SHALL BE SCORED AT INTERVALS NOT GREATER THAN 10 FEET AND SPACED EQUALLY BETWEEN
- CURBS SHALL BE SCORED "W" FOR WATER AND "S" FOR SANITARY SEWER AT EACH LOT TO IDENTIFY LOCATION OF SERVICE LINES.

STORM DRAINAGE & EROSION CONTROL

- 1. ALL STORM DRAINAGE PIPE SHALL BE FLUSHED AND CLEARED ANY CONSTRUCTION MATERIALS AND/OR SEDIMENT UPON PROJECT COMPLETION.
- 2. THE CONSTRUCTION EXIT SHALL BE MAINTAINED TO MINIMIZE EROSION AND TO PROVIDE A BUFFER FOR DEPOSITION OF MUD AND SEDMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES OR SITE ONTO PUBLIC ROADWAYS MUST BE REMOVED IMMEDIATELY.
- SEDIMENT BARRIERS SHALL BE HAY BALES OR EROSION CONTROL FENCING PLACED IN ALL DRAINAGE WAYS TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE.
- 4. EACH CONTRACTOR PERFORMING ANY WORK REQUIRED BY THESE PLANS SHALL COMPLY WITH ALL REQUIREMENTS SPECIFIED ON THE STORM WATER POLLUTION PREVENTION PLAN INCLUDED HEREIN, INCLUDING WEEKLY INSPECTION REQUIREMENTS. COPIES OF THE INSPECTION REPORT FORMS ARE AVAILABLE FROM THE ENGINEER OR ON LINE @ WWW.DEQ.STATE.MS.US.

WATER & SEWER

- 1. ALL WATER AND SANITARY SEWER CONSTRUCTION TO BE IN ACCORDANCE
- WITH THE CITY OF RIDGELAND STANDARD SPECIFICATIONS
- WATER MAINS SHALL BE LAID AT LEAST 10' HORIZONTALLY AND 18" VERTICALLY FROM ANY SEWER OR MANHOLE (WATER OVER SEWER).
- WHERE WATER LINES CROSS OVER SEWER LINES, THE A30VE REQUIREMENTS WILL BE WAIVED IF PIPE SEGMENTS ARE CENTERED TO PROVIDE MAXIMUM SPACING OF THE JOINTS OF BOTH WATER AND SEWER LINES AND A VERTICAL SEPARATION OF AT LEAST 18" (WATER OVER SEWER) IS MAINTAINED.
- 4. SEWER SERVICE LINES SHALL BE 6"; SEWER MAINS SHALL BE 8" SDR-26 PVC.
- WATER SERVICE LINES SHALL BE 1" (OR AS OTHERWISE SHOWN FOR A PARTICULAR LOT) AND SHALL BE TERMINATED WITH 1" \times 3/4" CURB STCP. WATER MAINS SHALL BE 8" OR 6" DUCTILE IRON OR C900, CLASS 150.
- SERVICES FOR WATER AND SEWER SHALL BE LOCATED AS SHOWN ON PLANS OR NEAR THE CENTER OF ALL LOTS WITH 10 FOOT SEPARATION. THE TERMINUS OF EACH SERVICE SHALL BE MARKED WITH A STEEL TEE POST WITH BLUE TIP FOR WATER AND RED TIP FOR SEWER. SEWER SERVICES SHALL DISCHARGE INTO MANHOLES WHERE PRACTICABLE.
- 7. BACK FILL OF ALL TRENCHES UNDER EXISTING OR PROPOSED PAVEMENTS MAXIMUM LOOSE LIFTS TO A MINIMUM OF 95% STANDARD PROCTOR PEAK
- DEFLECTION TEST SHALL BE PERFORMED ON ALL FLEXIBLE SEWER PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACK FILL HAS BEEN IN PLACE AT LEAST 30 DAYS. DEFLECTION TEST SHALL BE RUN USING A RIGID BALL OR MANDREL HAVING A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
- WATER MAINS SHALL BE INSTALLED WITH 4' MINIMUM COVER UNDER ROADWAY SECTIONS AND 3' MINIMUM COVER ELSEWHERE. IN AREAS WHERE MAINS ARE TO BE INSTALLED ADJACENT TO STREETS LOCATED IN A CUT SECTION, THE MINIMUM DEPTH SHALL BE 3'
- 10. CONTRACTOR SHALL MAINTAIN RECORDS DURING CONSTRUCTION OF HORIZONTAL AND VERTICAL LOCATION OF ALL WATER AND SEWER SERVICES FOR AS BUILT RECORDS.
- 11. IRRIGATION/UTILITY SLEEVES SHALL BE INSTALLED WITH WAXIMUM 5' SEPARATION, MINIMUM 4' DEPTH AND STUBBED TO SURFACE, CAPPED AND MARKED FOR FUTURE USE.
- 12. TRACER WIRE SHALL BE INSTALLED ON C-900 WATER MAINS.

INDEX TO DRAWINGS

- **COVER SHEET**
- GENERAL NOTES AND INDEX TO DRAWINGS
- SITE LAYOUT PLAN
- STORM WATER POLLUTION PREVENTION PLAN
- PLAN AND PROFILE AVERY BOULEVARD NORTH STA. 6+60.42 - STA. 13+50
- PLAN AND PROFILE AVERY BOULEVARD NORTH STA. 13+50 - STA. 21+74.69
- STANDARD MISCELLANEOUS DETAILS
- STANDARD WATER DETAILS
- MDOT STANDARD BASIC CULVERT DRAWING SINGLE CELL HEIGHT 8 FT. SPANS 8-20 FT.
- MDOT STANDARD BASIC CULVERT DRAWING SINGLE CELL HEIGHT 8 FT. SPANS 8-20 FT.

LEGEND

PROPERTY LINE AND CORNER LOT LINE -- RIGHT OF WAY LINE — — — EASEMENT ---- SETBACK LINE ------ STREET AND ROW CENTER LINE CURB AND GUTTER EXISTING CONTOUR ====== EXISTING SANITARY SEWER & MANHOLE PROPOSED SANITARY SEWER & MANHOLE ======= EXISTING STORM SEWER & CATCH BASIN PROPOSED STORM SEWER & CATCH BASIN EXISTING WATER LINE PROPOSED WATER LINE PROPOSED WATER VALVE

PROPOSED FIRE HYDRANT

PROPOSED TEE

PROPOSED REDUCER

RECORD DRAWING

BY: KName DATE: 5/20/04



AN EXTENSION OF **AVERY BOULEVARD NORTH**

GENERAL NOTES AND INDEX TO DRAWINGS

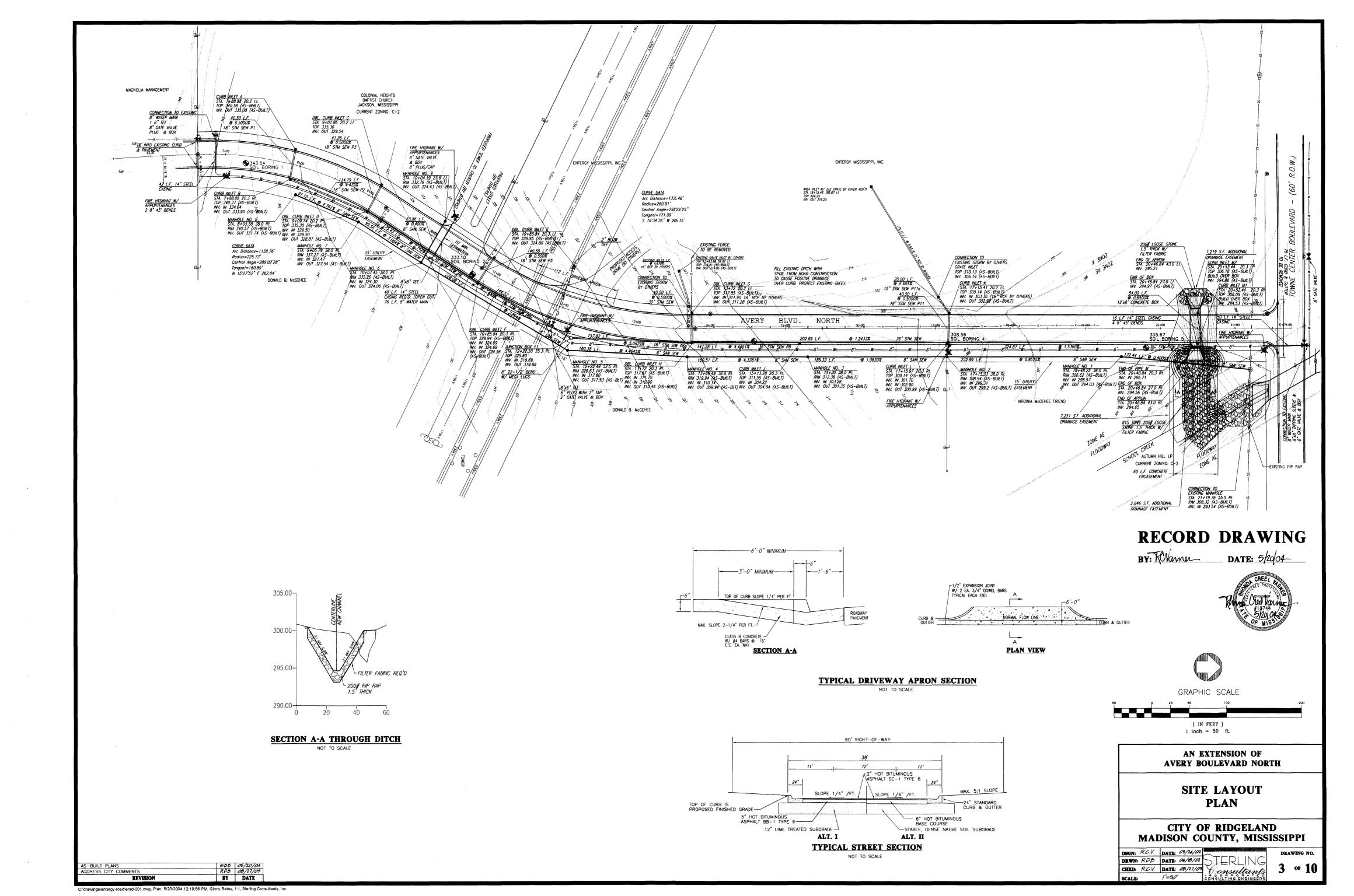
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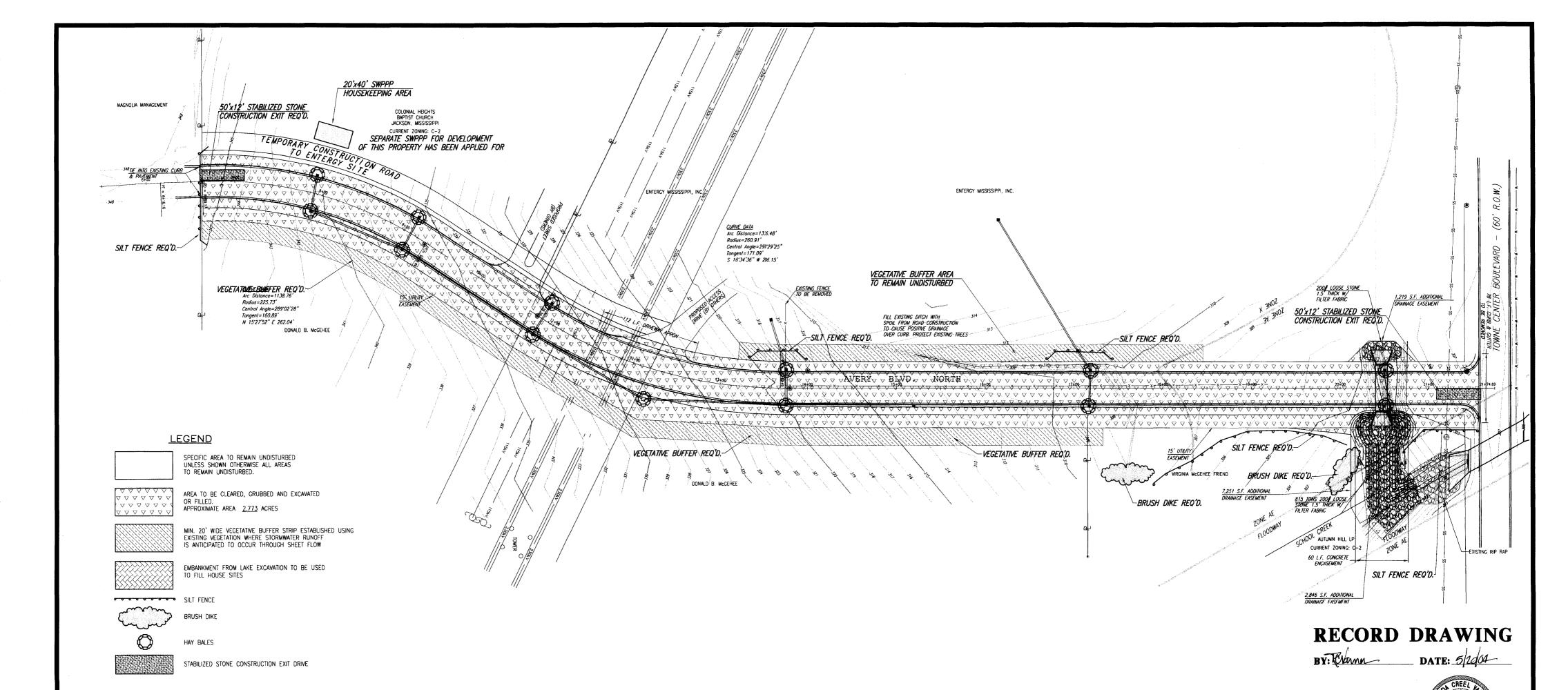
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SCALE: AS SHOWN CONSULTING ENGINEERS

DRAWING NO. 2 of 10

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BY DATE





STORM WATER POLLUTION PREVENTION PLAN

A. General. The measures and land treatments shown on this plan are applicable to land disturbance activities during infrastructure construction. Should adjoining sites be developed or improved during infrastructure construction, these measures shall be modified or supplemented as necessary to minimize off— site deposition of soil sediments arising from such additional

B. Erosion and Sediment Controls. All controls must be in accordance with the standards for manufacture and installation which are set farth in the 1994 edition of "Planning and Design Manual for the Control of Erosion, Sediment and Stormwater" published by the Mississippi Department of Environmental Quality and U.S. Department of Agriculture Natural Resources Conservation

Erosion and Sediment Minimization Practices During

All contractors and subcontractors are to limit their activities and operations to those areas which must reasonably be occupied for sofe and proper infrastructure construction. Areas inadvertently disturbed are to be promptly prepared and seeded.

- Contractors are specifically directed to preserve existing vegetation where possible and to employ those practices and methods which will minimize the erosion and off-site deposition of sediments. Contractors shall selectively implement temporary erosion and sediment control measures appropriate for the topography, type or soil, time of year, and anticipated
- 3. All contractors and subcontractors are to refrain from construction activities during those periods after heavy rainfalls when wet soil conditions cause mud to stick to vehicles leaving the site. 4. Any contractor or subcontractor who fails or amits to
- employ and implement appropriate and practicable erosion and sediment control measures and practices or who intentionally or unintentionally destroys or domages any erosion or sediment control facility shall be responsible for damages to downhill property caused by erosion stemming from such failure, omission, or destruction and shall promptly clean or repair ditches, drainage culverts or inlets clagged or otherwise affected by such erasion.

BY DATE

5. At the location(s) shown on this plan, or at such other location(s) suitable therefor which from time to time may be directed by the Engineer, there shall be established and maintained by each contractor an area designated the "SWPPP Housekeeping

6. The contractor performing the work required or implied on the Construction Plans of which this SWPPP is a part, during the period from the date the contractor mobilizes on the project site until the date his work is completely finished, shall weekly monitor, inspect, repair or replace within 24 hours of discovery, relations the second of the project of the proj maintain and supplement as required each and all of the erosion controls facilities required by this SWPPP. The contractor shall at least once each week inspect, repair, replace and maintain such controls even though the controls may have been installed by other contractor(s) or serve areas within the project site but outside of contractor(s) or serve areas within the project site but outside of the contractor's immediate work area. The contractor shall erect, operate, maintain and manitor a rain guage. Following any storm event in which the gauge indicates that more than three (3) inches of rain fell in a 24 hour period, ar after any storm event which the Engineer indicates the necessity of sa doing, as soon as field conditions allow, the contractor shall monitor, inspect, repair, replace, maintain and supplement as required any erosion controls which have failed to function as intended. The contractor shall file monthly with the Engineer a report of each such inspection on the form provided by the Engineer.

Measures to be Implemented Prior to Construction. Sediment basins, traps and barriers, perimeter dikes, vegetated buffer strips, and other erosion control measures intended to trap sediment on—site shall be constructed as the first step in grading, and shall be functional prior to disturbing upslope The Clearing contractor shall

- install fabric silt fencing at those locations shown on the plans, at such other locations downslope of large areas from which native vegetation is to be removed or substantially disturbed by infrastructure installation activities, and at additional locations
- install sediment barriers or brush dikes made using hay bales staked across natural drainage ways situated inside and adjacent to the construction site at those locations indicated an the plans or as otherwise directed or appropriate;
- mark with survey tape and/or pin flags specific individual or stands of trees which are to remain undisturbed and areas of vegetation suitable for serving as buffer strips along the lower perimeter of the construction site

- 4. grade, shape and otherwise prepare as an "SWPPP Housekeeping Area" an easily accessible area approximately 20' x 40' which drains to a sump at one end, and provide and erect a sign identifying the area as the "SWPPP Housekeeping Area." This area shall be prepared for use as the location of sanitary facilities for contractor's personnel, as the location of a trash receptacle for disposal of solid waste, and for use for other purposes such as equipment maintenance and concrete chute wash-off.
- Additional Measures to be Implemented During Construction.
- The Clearing Contractor shall salvage pine boughs and tree limbs and place same at appropriate locations to reinforce silt fences and/or form brush barriers.
- 2. The Contractor shall place a six inch thick, 12' wide, 50' long pad of stabilized crushed stone at the point shown on the plans where construction traffic should enter and leave the construction site.
- 3 Forthwork Provided such is not patently inconsistent with the grading plans, the Contractor shall grade and shape ground surfaces to divert stormwater flow away from disturbed ground surfaces and exposed sails and shall construct check dams, sediment retention basins and other designated or appropriate
- trenches (except those situated under proposed pavements and curbs) slightly depressed to permit the collection and infiltration of stormwater, the retention of sediments, and the consolidation of bockfill soils. Excess trench excavation shall be piled upslape of depressed trenches.
- 5. Drainage Pipe Installation. The Contractor shall construct inlet sediment traps using hay bales staked around the openings of all inlets end and/or drainage culverts and shall construct outlet erosion mitigation and/or stormwater energy dissipation blocks using pre-mixed dry sand/aggregate/cement in cubic foot kraft paper bags at the discharge end of drainage culverts. Where drainage culverts are installed with a gap to accommodate the construction of area or curb inlets or junction boxes, the drainage pipe installation Contractor shall pour the structure bottom using ready-mix concrete prior to placing hay bales.

- 6. Each contractor performing any work required or implied on the Construction Plans of which this SWPPP is a part, shall provide, use and naintain the facilities within the Housekeeping Area as required by this SWPPP. If Contractor has a requirement for the storage of potentially taxic materials such as fertilizers, chemicals, points, solvents, etc., the contractor shall be required to provide and maintain within the Area a protected storage area for the storage of these items. The contractor shall be required to ensure that spatiatry facilities are adequately maintained by a service enterprise. anitary facilities are adequately maintained by a service enterprise
- Additional Measures to be Implemented After Street Paving.
- 1. Finish Grading, The Contractor shall grade and shape all ground surface areas disturbed by infrastructure constr activities, remove all sediments collected in traps, and and/or restore as appropriate all erasion and sediment control facilities which should remain.
- 2. Grassing Contractor. The shall prepare, fertilize, seed and/or scd, and mulch if necessary all non-paved areas disturbed during inflastructure construction activities. The selected species of grass(es) to be sown shall be based on time of year, type of soil, and other relevant site conditions and shall be chosen to control program and small prepared. to control erosion and survive seasonal conditions.
- 3. Pending the establishment of vegetative ground cover, the Contactor shall monitor the build up of sediments on street pavements which may occur following rainfalls and appropriately return same to the areas from which they eroded.
- Any disturbed or denuded around surface areas which will not be occupied again or within sixty (60) days shall be revegetated with seasonal gross or permanent gross as specified by the Engineer.
- G. Post Construction Procedures.

 Pending the establishment of vegetative ground cover, all practicable temporary and permanent erosion and sediment control facilities shall be inspected, mointained and repaired as necessary by the Contractor to assure the continued performance of the contractor of the continued performance of the contractor. their interded function.

The City and Qwners shall carry forward all erosion control measures and facilities set forth in this SWPPP to ensure that successive builders and lot will take measures to prevent or mitigate sediment from leaving individual lots and parcels

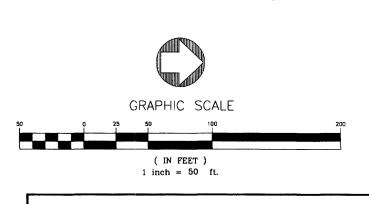
Each benefitted adjaining property owner will provide to each successive builder and lot owner a copy of this SWPPP. Each benefitted adjaining property owner will require, by imposing deed restrictions or protective covenants, that successive builders and lot owners.

fully comply with all municipal and state land disturbance and erosion control ordinances, regulations and

b. fully comply with so much of this SWPPP that is pertinent or appropriate for the lot or parcel conveyed to the

from the beginning of site preparation through th establishment of permanent vegetative cover, will maintain the property purchased in such a condition as to minimize off-site damage from erosion, sediment deposits and storm water

d. ocknowledge and agree that the Owners will not be held respansible for, and will be held harmless from, damages which may be suffered by the builder or lot owner, or other builders and lot owners, as a result of site preparation activities (including but not limited to lot grading and shaping) carried out in connection therewith by the builder or lot owner and/or their contractors and subcontractors.



AN EXTENSION OF AVERY BOULEVARD NORTH

STORM WATER POLLUTION PREVENTION PLAN

CITY OF RIDGELAND MADISON COUNTY, MISSISSIPPI

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CHED: RCV. DATE: 06/21/05
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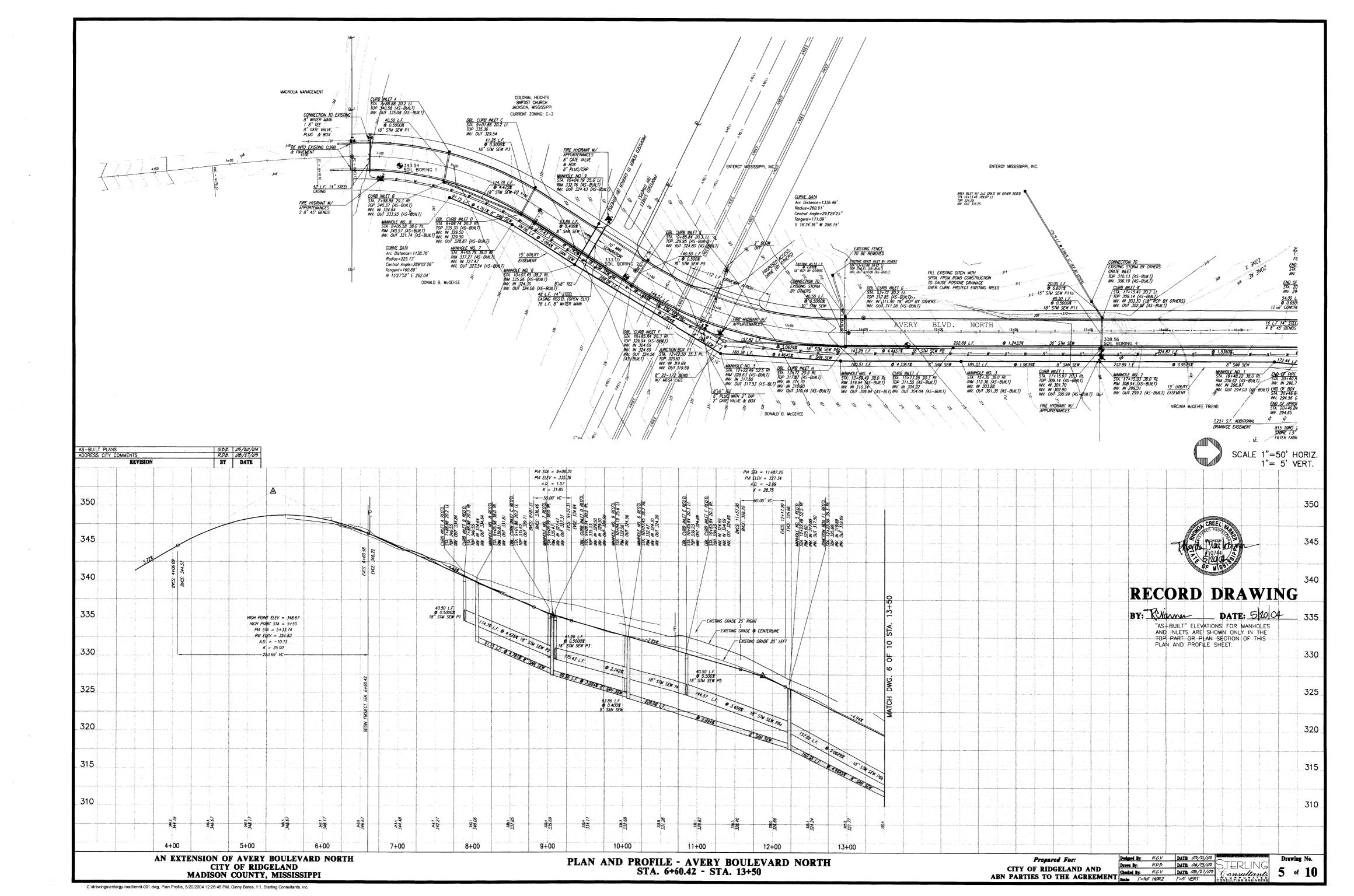
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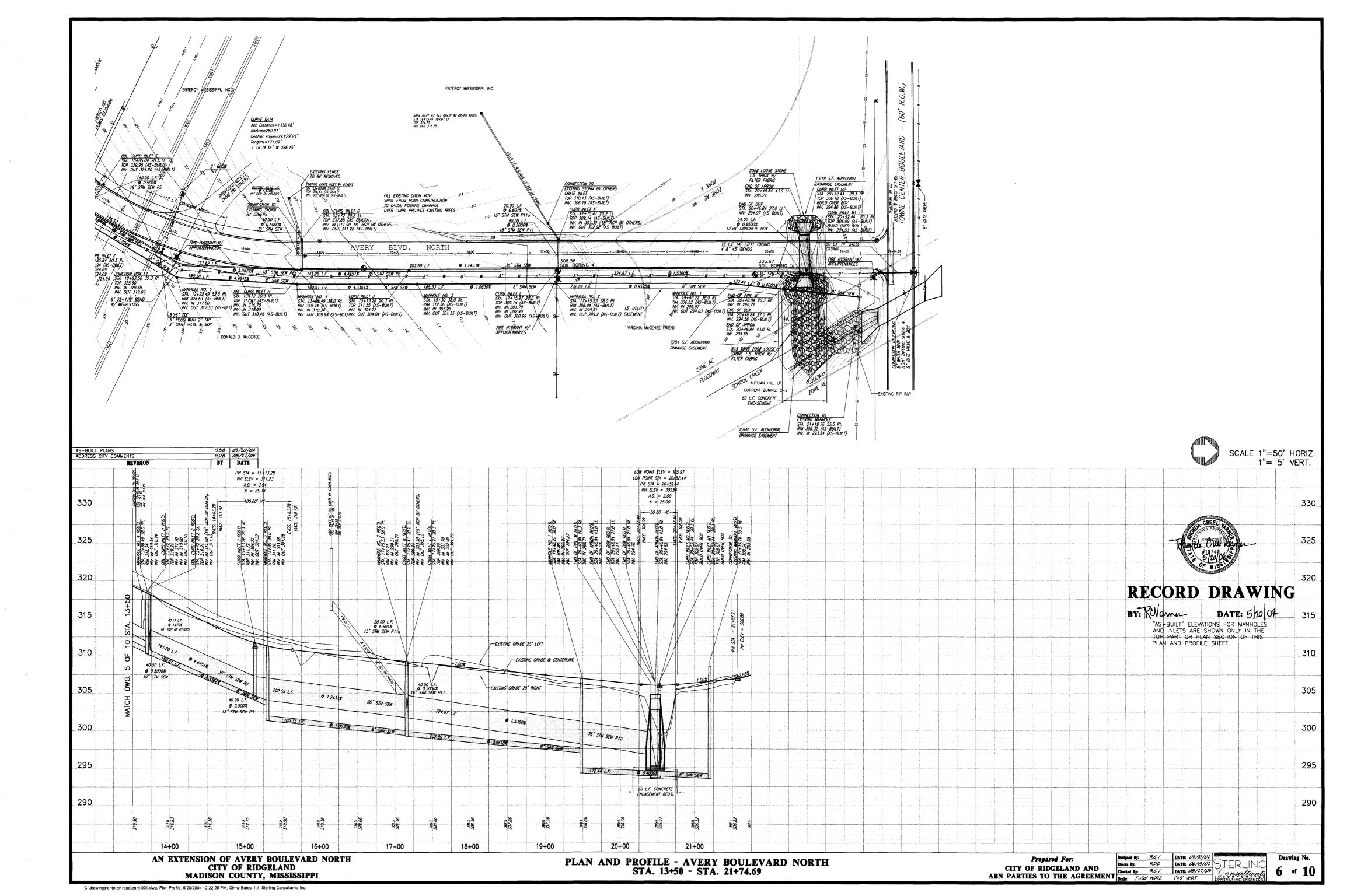
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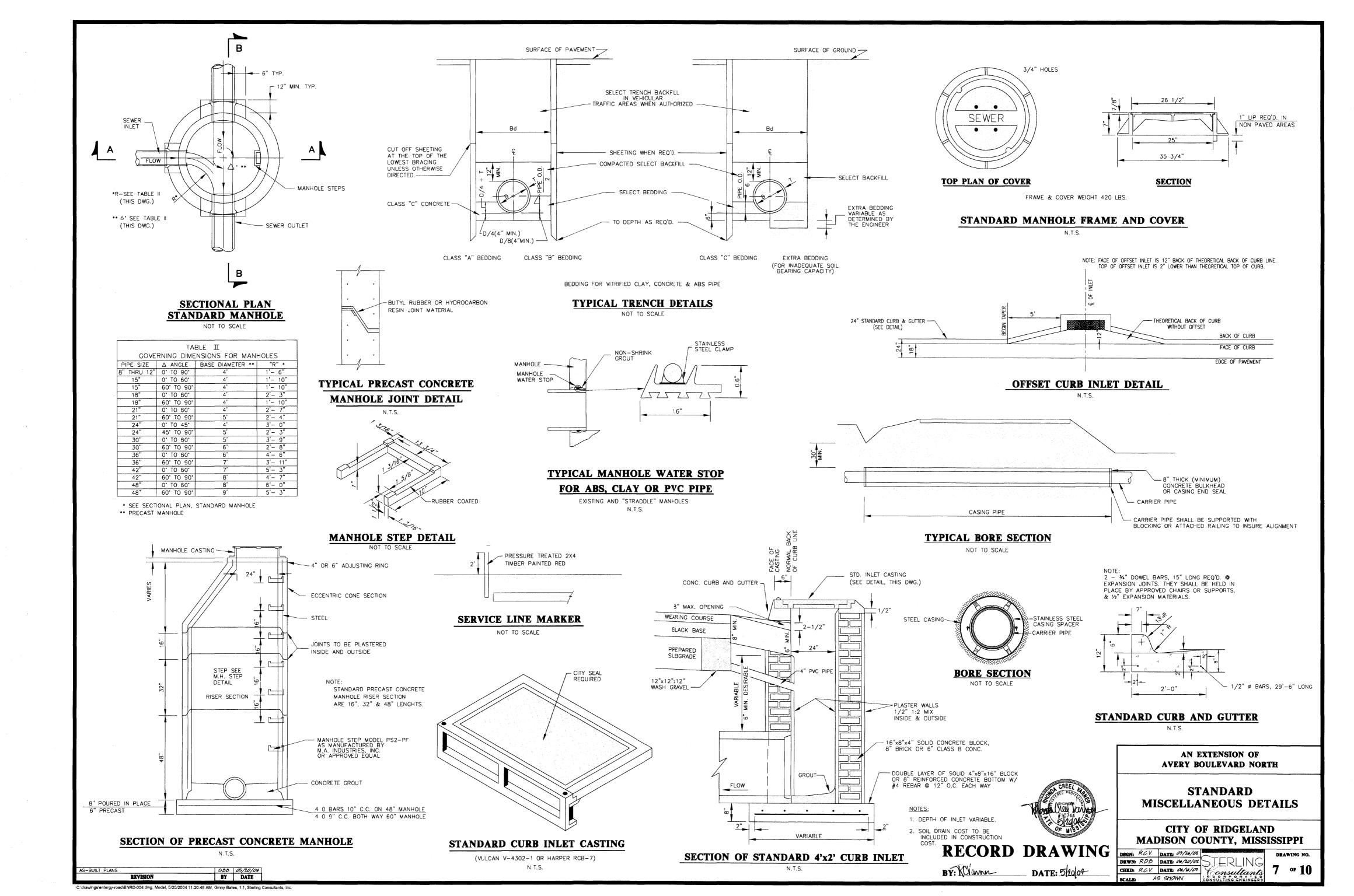
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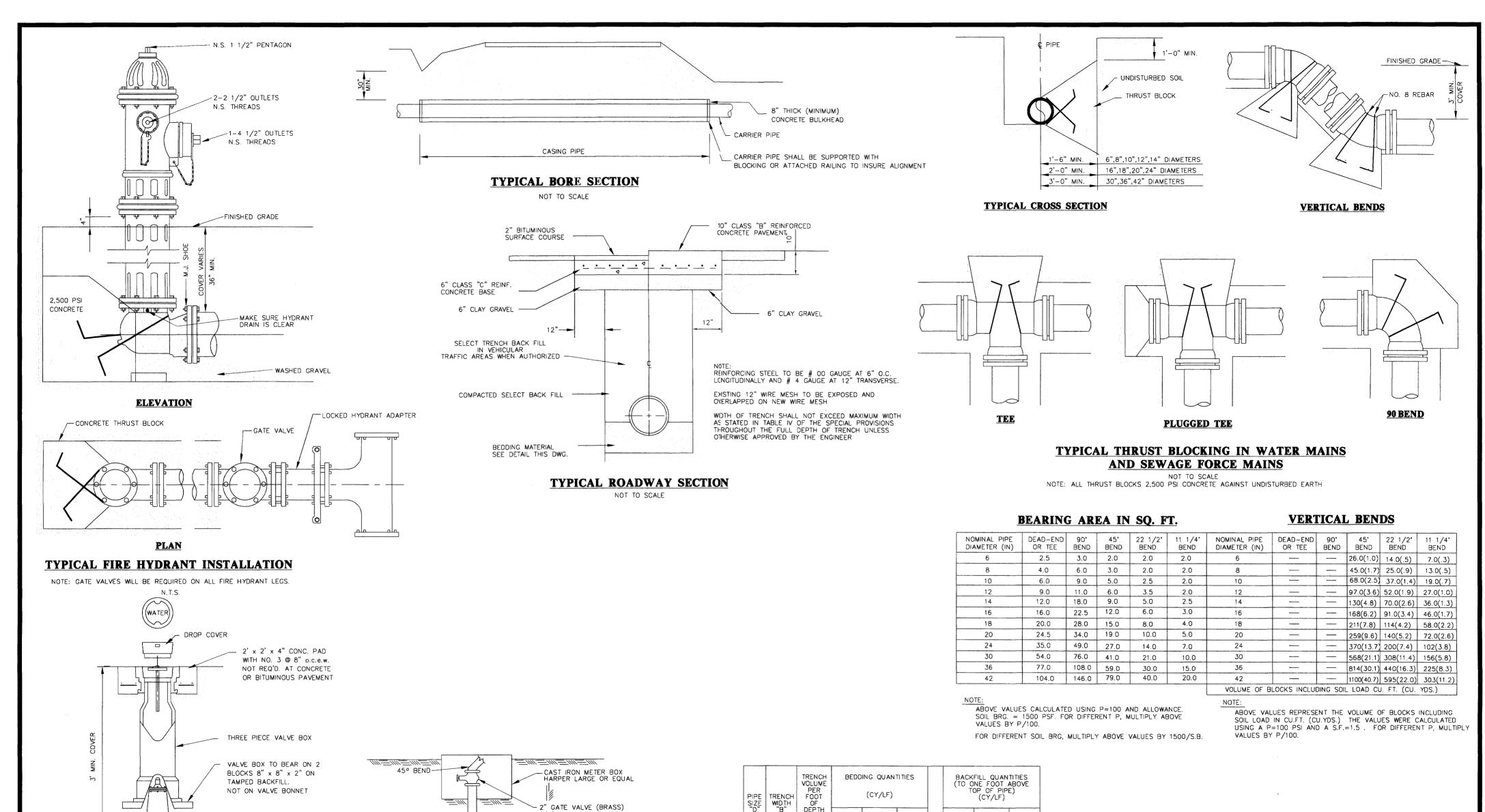
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PIPE SIZE	E WIDTH	TRENCH VOLUME PER FOOT OF	BEDD	(CY/LF)	TITIES	BACKFILL QUANTITIES (TO ONE FOOT ABOVE TOP OF PIPE) (CY/LF)					
"D" (IN.)	"B" (FT.)	DEPTH (CV/LF)	CLASS C	CLASS B	CLASS A	CLASS C	CLASS B	CLASS A			
4 6 8 10 12 5 15 8 21 22 7 33 3 36 4 28 4 54 6 6 6 7 7 8 4	2.50 2.50 3.00 3.75 4.00 4.25 4.75 5.00 5.75 7.50 8.00 8.75 9.75	0.074 0.074 0.093 0.111 0.139 0.148 0.157 0.167 0.176 0.185 0.204 0.213 0.231 0.259 0.296 0.324 0.361 0.361	0.054 0.056 0.058 0.072 0.085 0.098 0.11 0.13 0.14 0.16 0.19 0.22 0.26 0.29 0.33 0.37 0.41 0.45 0.50	0.053 0.057 0.062 0.081 0.10 0.12 0.14 0.17 0.19 0.21 0.25 0.33 0.42 0.48 0.55 0.66 0.74 0.82	0.048 0.051 0.054 0.069 0.087 0.10 0.12 0.16 0.17 0.20 0.23 0.28 0.31 0.39 0.49 0.58 0.68 0.82 0.90	0.13 0.13 0.14 0.18 0.22 0.25 0.28 0.31 0.37 0.40 0.45 0.49 0.55 0.78 0.90 0.90 0.16	0.12 0.12 0.12 0.16 0.19 0.21 0.24 0.26 0.31 0.33 0.38 0.41 0.46 0.55 0.60 0.76 0.89 1.00	0.12 0.13 0.14 0.18 0.225 0.27 0.33 0.33 0.336 0.39 0.45 0.54 0.671 0.77 0.89 0.93 1.16			

SCHEDULE OF BEDDING AND BACKFILL QUANTITIES

RECORD DRAWING

BY: KUlann DATE: 5/20/04



AN EXTENSION OF AVERY BOULEVARD NORTH

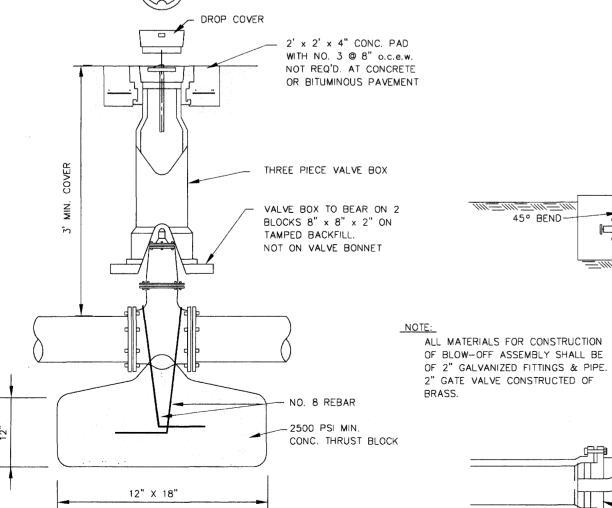
STANDARD WATER DETAILS

CITY OF RIDGELAND MADISON COUNTY, MISSISSIPPI

DSGN: R.C.V. DATE: 06/17/09 DRWN: RDB. DATE: 06/17/03 CHED: RCV DATE: 06/17/09

8 of 10 onsultants SCALE: AS SHOWN

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GATE VALVE DETAIL NOT TO SCALE

TYPICAL BLOW-OFF ASSEMBLY N.T.S.

688. 05/20/04 BY DATE

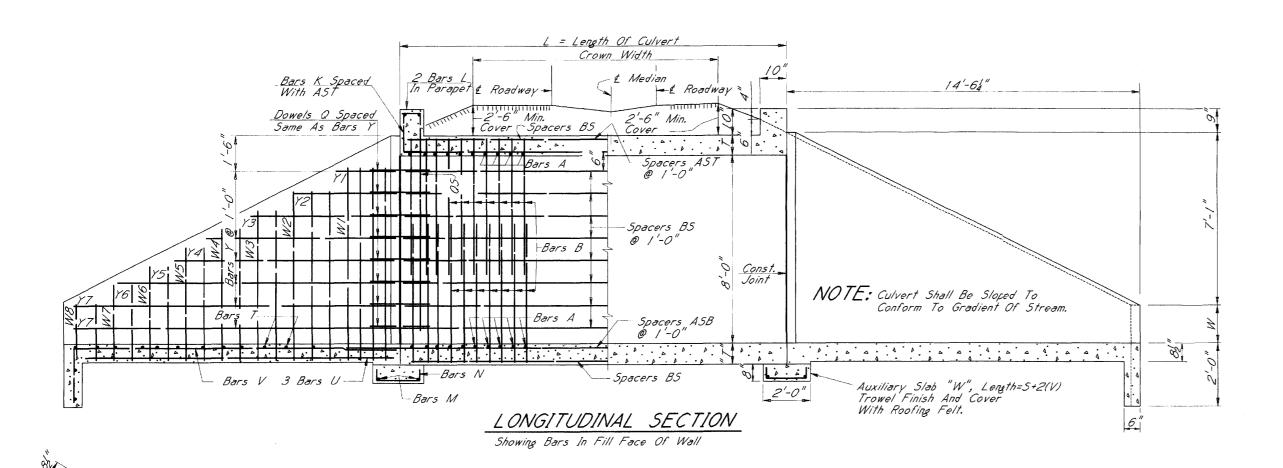
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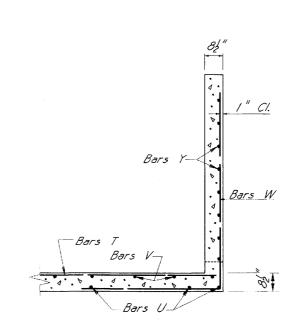
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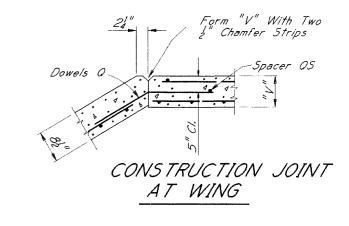
BLOCKING -

-MECH. PLUG △

UNDISTURBED EARTH









+ £ Roadway

Cover-

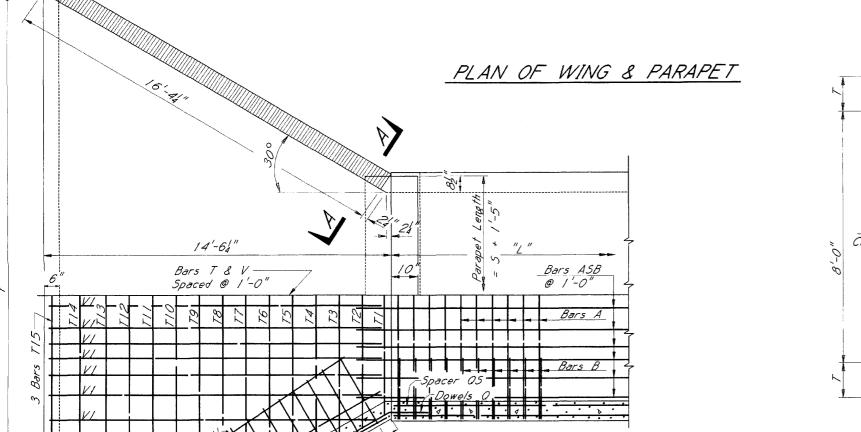
L-M+10'

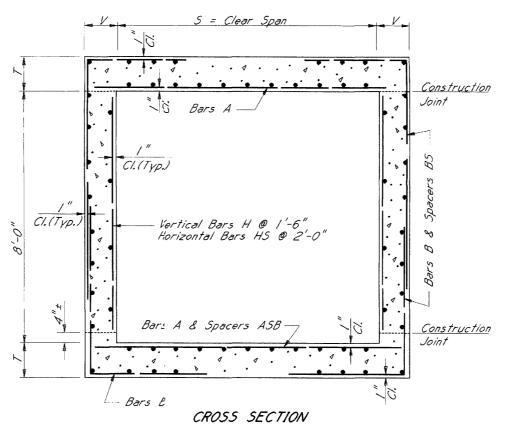
M +29'

Const. Joint -

L-M-10'

NOTE: Auxiliary Slabs "W" At Wings.





1-U IVI-L Roadway

M + 29

L= Length Of Culvert Crown Width M= Width Of Median

L'Aux. Slabs "J" At Joints

- £ Median

b" Premolded Joints, —

	(CUL VE	RT			ESTIMATED OUANTITIES											
	DI	MENS	10N5			CUL VERT(L	=150 FT.)	PER LIN,	FT. BARREL	1 AUX.	SLAB "J"						
CLEAR	MAX.	7	V	W	Y	CONC.	REINF.	CONC.	REINF.	CONC.	REINF.						
SPAN	COVER					cu. yd.	STEEL 16.	cu. yd.	STEEL 16.	cu. yd.	STEEL 16.						
8'	11'	9"	8"	1'-9"	24'-65"	163.41	25,289	0.9/36	154.8	0.46	27						
10'	7'	92"	8/ "	1'-92"	26'-65"	191.99	28,639	1.0892	176.2	0.56	32						
12'	6'	10/2"	9"	1'-102"	28'-62"	228.90	33,580	1.3194	207.7	0.67	38						
14'	6'	1'-0"	10"	2'-0"	30'-65"	281.66	41,042	1.6543	256.9	0.77	44						
16'	6'	/'-/"	11"	2'-1"	32'-65"	332.12	50,954	1.9743	321.5	0.88	49						
18'	6'	1'-2"	1'-0"	2'-2"	34'-62"	386.61	60,691	2.3210	<i>385.3</i>	0.99	55						
20'	6'	1'-3"	/'-/"	2'-3"	36'-65"	445.11	71,230	2.6944	454.1	1.09	61						

Bars AST Tie To Bars A In Top Slab. Bars ASB Tie To Bars A In Bottom Slab. Bars BS Tie To Bars B.

NOTE: Joints Shall Not Be Located Closer Than 5 Ft. Outside Of Pavement For Cover Of 8 Ft. Or Less Except In Cases Where Median Is Less Than 10 Ft. Where Cover Exceeds 8 Ft., Joints May Be Located Without Regards To Pavement Edge.
L Equal To Or Less Than 140 Ft.; M=4 Ft. Thru 60 Ft.
L Greater Than 140 Ft. & Equal To Or Less Than 190 Ft. ; M=40 Ft. Thru 60 Ft.

L Greater Than 140 Ft. & Equal To Or Less Than 190 Ft.; M=4 Ft. To 40 Ft. L Greater Than 190 Ft.; M=4 Ft. Thru 60 Ft. SIDE ELEVATION OF CULVERT Showing &" Joints And Auxiliary Slabs "J" Drawn For L = 150 Ft. & M = 60 Ft.

NOTE: See Drawing IBJL-I For Additional Joint Locations.

<u>L-M-58'</u>

Cover

L-11+10

-- Const. Joint

DESIGN	DATA:
DESTON	Unin.

Specifications. . . A.A.S.H.O. 1969 Unit Stresses. . . . fs=20,000 psi, fc= 1,200 psi, n=10.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION BASIC CULVERT DRAWING SINGLE CELL HE]GHT 8 FT. 8-20 FT. SPANS WORKING NUMBER IBS-8-2W

SHEET NUMBER 巴 DESIGNED NA CHECKED BUU ISSUED TMT 371.1 DETAILED ALT DATE 07-11-97 DATE 08-01-97

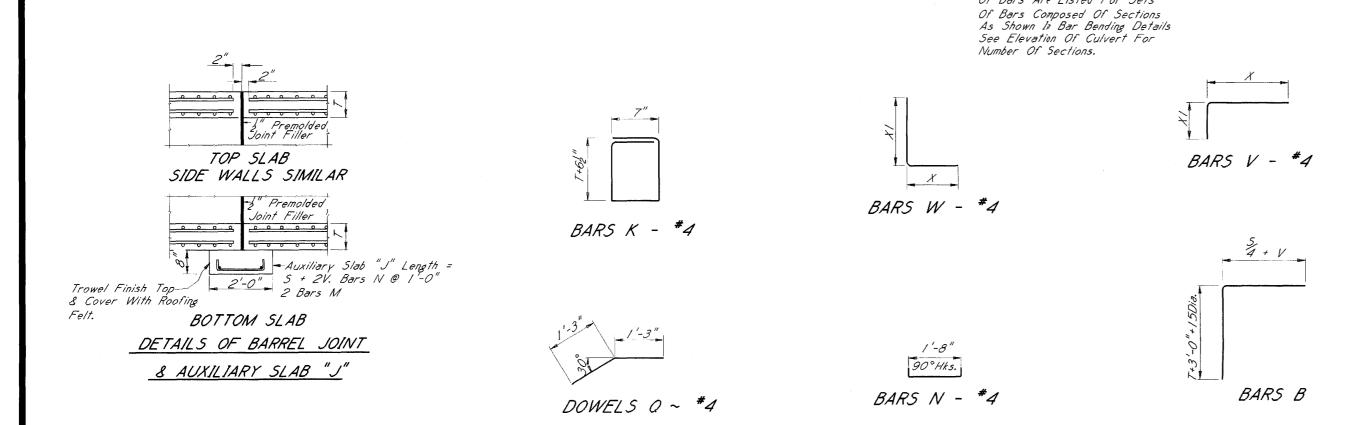
NOTE: Where Cover Is 8 Ft. Or Less And A Joint Occurs Within The Limits Of 5 Ft. Beyond Each

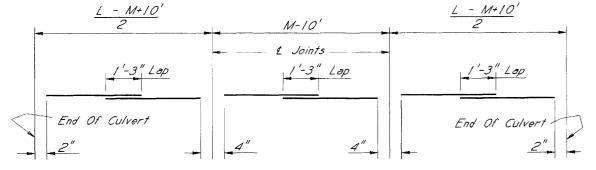
Per Drawing ICJ-1 Or 1CJ5-1.

Edge Of Pavement, Use Complete Collar At Joints

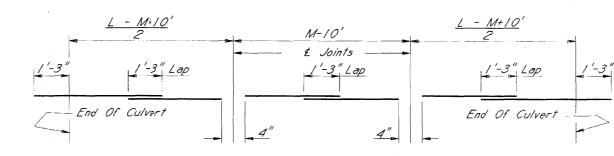
						B	AR L	IST FO	OR L			L= /				PAPETS	8 4	AUXILI	ARY	SLAB.	5 6	2 "/s"	8	2 "W	<i>'s")</i>					
CLEAR	BAR	25 "A	//			BAR	'5 "E	3"		WEL5	5F. "05	ACERS "~ *4	SE BAR	75,OF 5 "AST" *4 @	SE BAR	TS OF S "ASB" A ®	SE BAR	75 OF " 5 "B5" 4 @	1	5 "H" •4	SE BAR.	TS OF S "HS" 4 @	BAI	RS "K" •4	BAR	?5 "L" •4	1	RS "M" *4	1	PS "N"
SPAN	NO.	SIZE	SPAC.	LGTH.	NO.	SIZE	SPAC.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.	NO.	LGTH.
8'	552	#6	6/ "	9'-1"	1104	#5	65 "	8'-2"	32	2'-6"	4	7'-7"	8	152'-9"	8	155'-7"	28	152'-9"	204	7'-7"	8	152'-9"	16	4'-4"	4	9'-1"	8	9'-0"	40	2'-2"
10'	552	#6	62 "	11'-2"	1104	#5	65 "	8'-9"	32	2'-6"	4	7'-7"	10	152'-9"	10	155' - 7"	32	152'-9"	204	7'-7"	8	152'-9"	20	4'-5"	4	11'-1"	8	//'-/"	48	2'-2"
12'	600	#6	6"	13'-3"	1200	#5	6"	9'-5"	32	2'-6"	4	7'-7"	12	152'-9"	12	155'-7"	32	152'-9"	204	7'-7"	8	152'-9"	24	4'-7"	4	13'-1"	8	13'-2"	56	2'-2"
14'	684	#6	54"	15'-5"	1368	#5	54"	10'-1"	32	2'-6"	4	7'-7"	14	152'-9"	14	155'-7"	36	152'-9"	204	7'-7"	8	152'-9"	28	4'-10"	4	15'-1"	8	15'-4"	64	2'-2"
16'	576	#7	64 "	17'-7"	1152	#6	64 "	10'-11'	32	2'-6"	4	7'-7"	16	152'-9"	16	155'-7"	36	152'-9"	204	7'-7"	8	152'-9"	32	5'-0"	4	17'-1"	8	17'-6"	72	2'-2"
18'	480	#7	7/ "	19'-9"	960	#7	7/2 "	11'-9"	32	2'-6"	4	7'-7"	18	152'-9"	18	155'-7"	40	152'-9"	204	7'-7"	8	152'-9"	36	5'-2"	4	19'-1"	8	19'-8"	80	2'-2"
20'	534	*8	64 "	21'-11"	1068	#7	63"	12'-5"	32	2'-6"	4	7'-7"	20	152'-9"	20	155' - 7"	40	152'-9"	204	7'-7"	8	152'-9"	40	5'-4"	4	21'-1"	8	21'-10"	88	2'-2"

@ NOTE: The Number And Length
Of Bars Are Listed For Sets





ONE SET OF BARS AST & BS ~ #4



ONE SET OF BARS ASB ~ #4

BAR BENDING DETAILS

Dimensions Are Out To Out.

NOTE: The Diagrams For Bars ASB, AST And BS Are For A Culvert Length Greater Than 140 Ft. And Equal To Or Less Than 190 Ft. With A Median Of 40 Ft. Thru 60 Ft. For Conditions Other Than These, Use Sections As Shown On Elevation Of Culvert.

73 #2		2	2	2	2	2	2			5+3'-4"
T4 #	1 2	2	2	2	2	2	2			5+4'-6"
75 #2	1 2	2	2	2	2	2	2			5+5'-8"
76 #2		2	2	2	2	2	2			5+6'-10"
77 #2	1 2	2	2	2	2	2	2			5+8'-0"
T8 #2		2	2	2	2	2	2			5+9'-2"
79 #2		2	2	2	2	2	2			5+10'-4"
T10 #2	1 2	2	2	2	2	2	2			5+11'-6"
T// #		2	2	2	2	2	2			5+12'-8"
T12 #	1 2	2	2	2	2	2	2			5+13'-10"
7/3 #2	' I	2	2	2	2	2	2			5+15'-0"
T/4 #2	1 2	2	2	2	2	2	2			5+16'-2"
T15 #2		6	6	6	6	6	6			5+17'-0"
U #2	1 12	12	12	12	12	12	12			16'-1"
V/ #		24	28	32	36	40	44	14'-2"	1'-8"	15'-10"
V2 #2		4	4	4	4	4	4	12'-3"	1'-8"	13'-11"
V3 #2	1	4	4	4	4	4	4	10'-6"	1'-8"	12'-2"
V4 #	1 4	4	4	4	4	4	4	8'-10"	1'-8"	10'-6"
V5 #2	1 4	4	4	4	4	4	4	7'-1"	1'-8"	8'-9"
V6 #	1 4	4	4	4	4	4	4	5'-5"	1'-8"	7'-1"
V7 #		4	4	4	4	4	4	3'-8"	1'-8"	5'-4"
W/ #		16	16	16	16	16	16	4'-6"	W+6'-7"	W+11'-1"
W2 #		12	12	12	12	12	12	4'-1"	W+5'-8"	W+9'-9"
W3 #		8	8	8	8	8	8	3'-8"	W+4'-9"	W+8'-5"
W4 #		8	8	8	8	8	8	3'-4"	W+3'-11"	W+7'-3"
W5 #2		8	8	8	8	8	8	3'-0"	W+3'-0"	W+6'-0"
W6 #		8	8	8	8	8	8	2'-8"	W+2'-2"	W+4'-10"
W7 *		8	8	8	8	8	8	2'-4"	W+1'-4"	W+3'-8"
W8 #		8	8	8	8	8	8	2'-0"	W+6"	W+2'-6"
Y1 #		4	4	4	4	4	4			2'-11"
Y2 #		4	4	4	4	4	4			5'-3"
Y3 #2		4	4	4	4	4	4			7'-7"
Y4 #		4	4	4	4	4	4			9'-10"
Y5 #2		4	4	4	4	4	4			12'-2"
Y6 #		4	4	4	4	4	4			14'-5"
Y7 #	1 8	8	8	8	8	8	8			16'-1"
		\sim \sim \sim		1/07	T.C.C					

BAR LISTS FOR WINGS & APRONS
NO. REQUIRED
SPAN
DIM.

14' 16' 18' 20'

DIM.

DIM.

LENGTH

5+1'-0" 5+2'-2"

BAR SIZE

8' 10' 2 2

12' 2

2

GENERAL NOTES:

Specifications: Mississippi Standard Specifications
For Road And Bridge Construction, 1990.

All Concrete Shall Be Class "B".

Concrete Surfaces Shall Be Finished In Accordance With Sub-Section 804.03.19.

Expansion Joint Material Shall Be Bituminous Fiber

Type Unless Otherwise Noted.

All Exposed Corners Shall Be Chamfered 3".

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.

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 Two Hours

Before Continuing The Pour.

Auxiliary Slabs "W" And Vertical Construction

Joints At The Wings Shall Be Placed In All Culverts Regardless Of Length.

The Quantities Shown Will Be Used As A Basis For Final Payment Unless This Drawing Is Modified.

I		В	MISSISSIPPI DEPARTMENT OF TRANSPORTATION
			BASIC CULVERT DRAWING
			SINGLE CELL
		REVISIONS	HEIGHT 8 FT.
		RE	SPANS 8-20 FT.
			WORKING NUMBER IBS-8-2W

SHEET NUMBER

371.2

브 DESIGNED NA CHECKED BJJ ISSUED TMT

DETAILED ALT DATE 07-11-97 DATE 08-01-97

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