

Oct 01, 2019 - 10:44 AM
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E:\B\151820826_BJWSA-JASON ST SEWER EXT\04d1 File\EMH\01 COVER-COPY GREAT SWAMP.dwg

JASON STREET SEWER EXTENSION

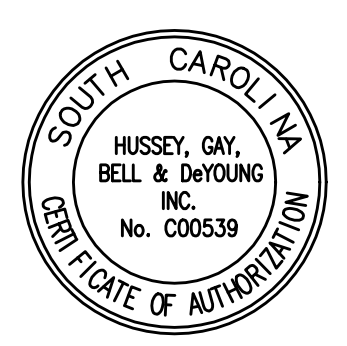
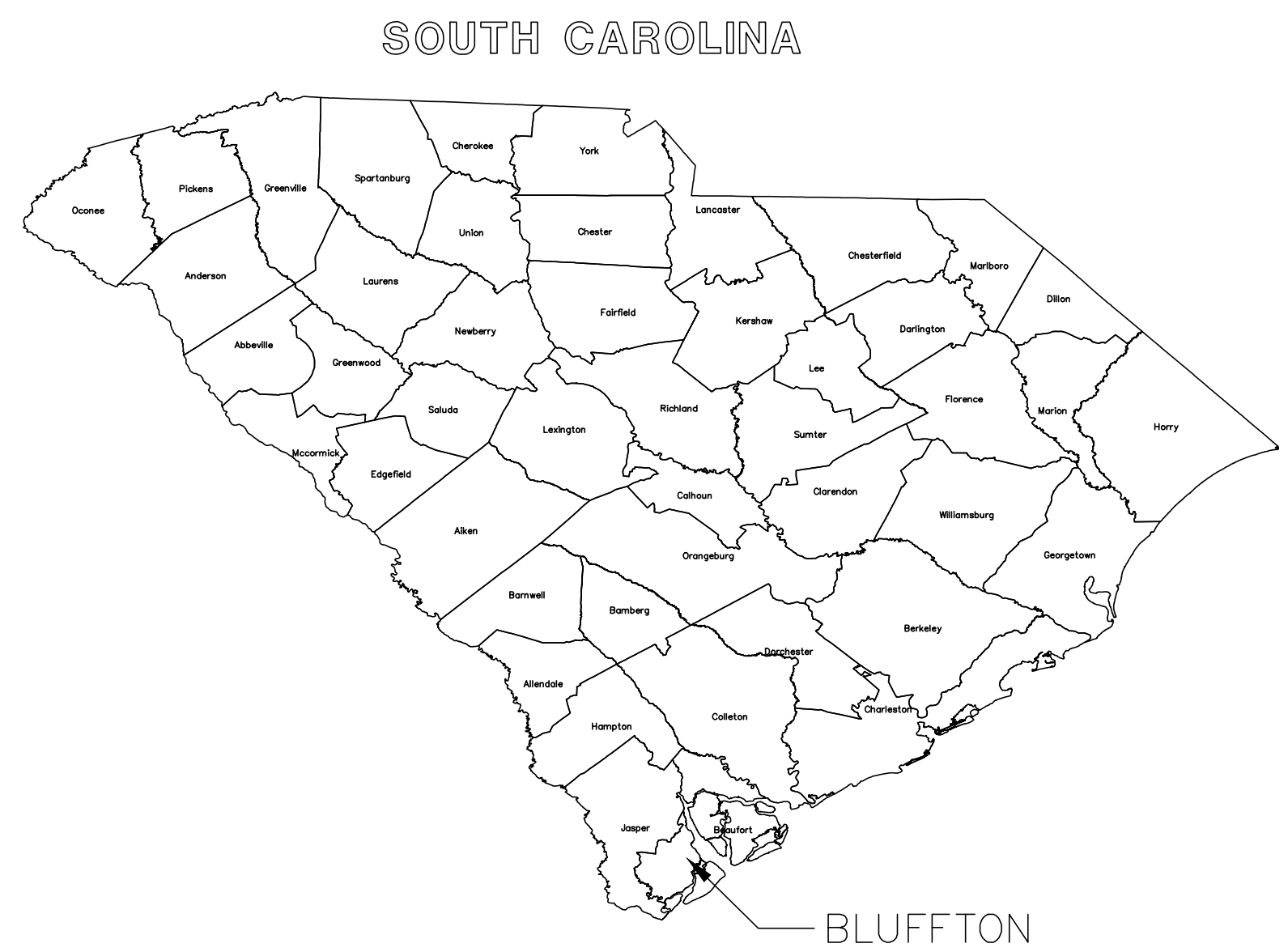
to 5 Lots on May River Road

BLUFFTON, SOUTH CAROLINA

FOR THE

BEAUFORT-JASPER WATER & SEWER AUTHORITY

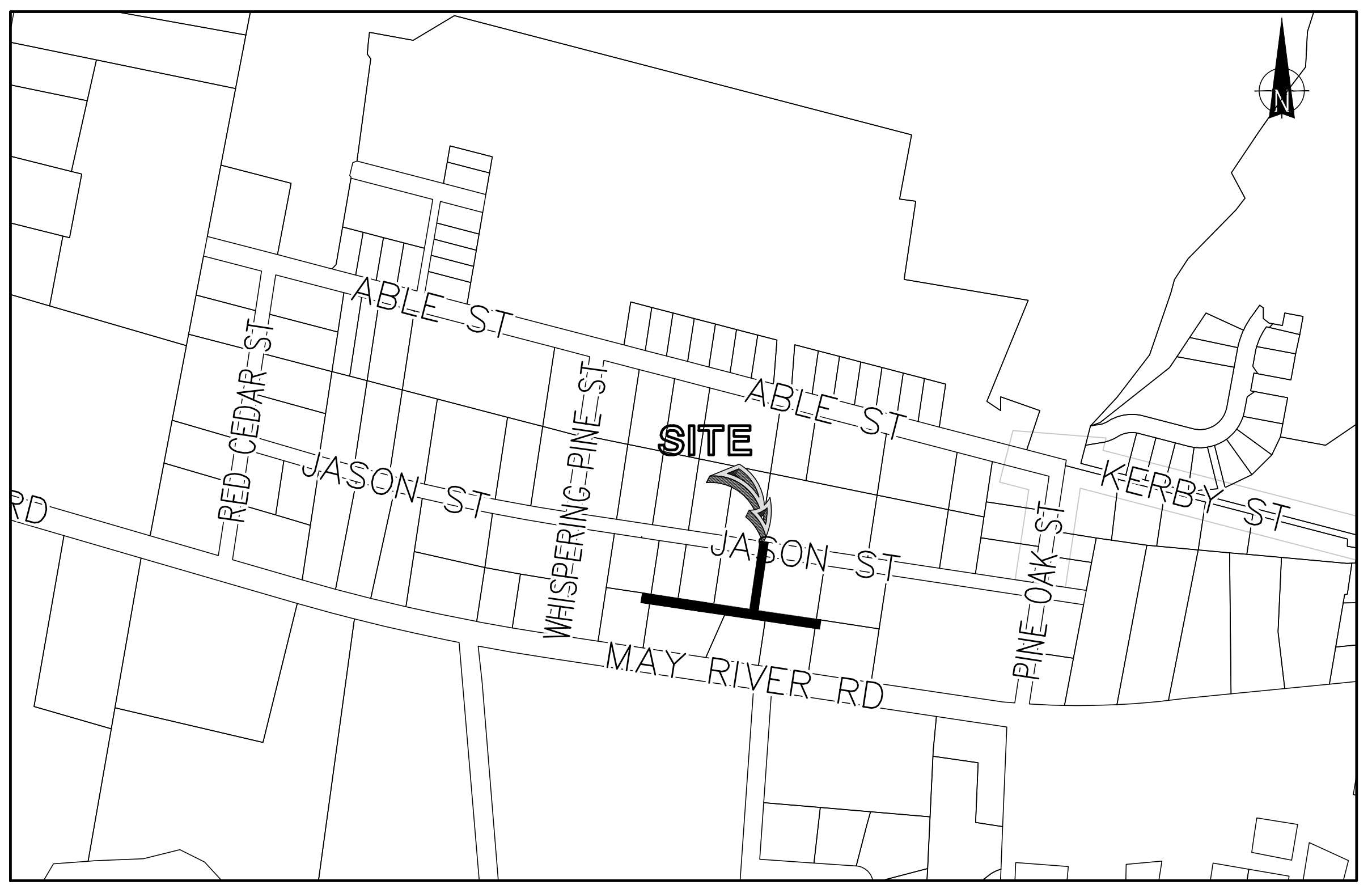
BJWSA PROJECT 1570



OCTOBER 2019

HUSSEY GAY BELL
Established 1958

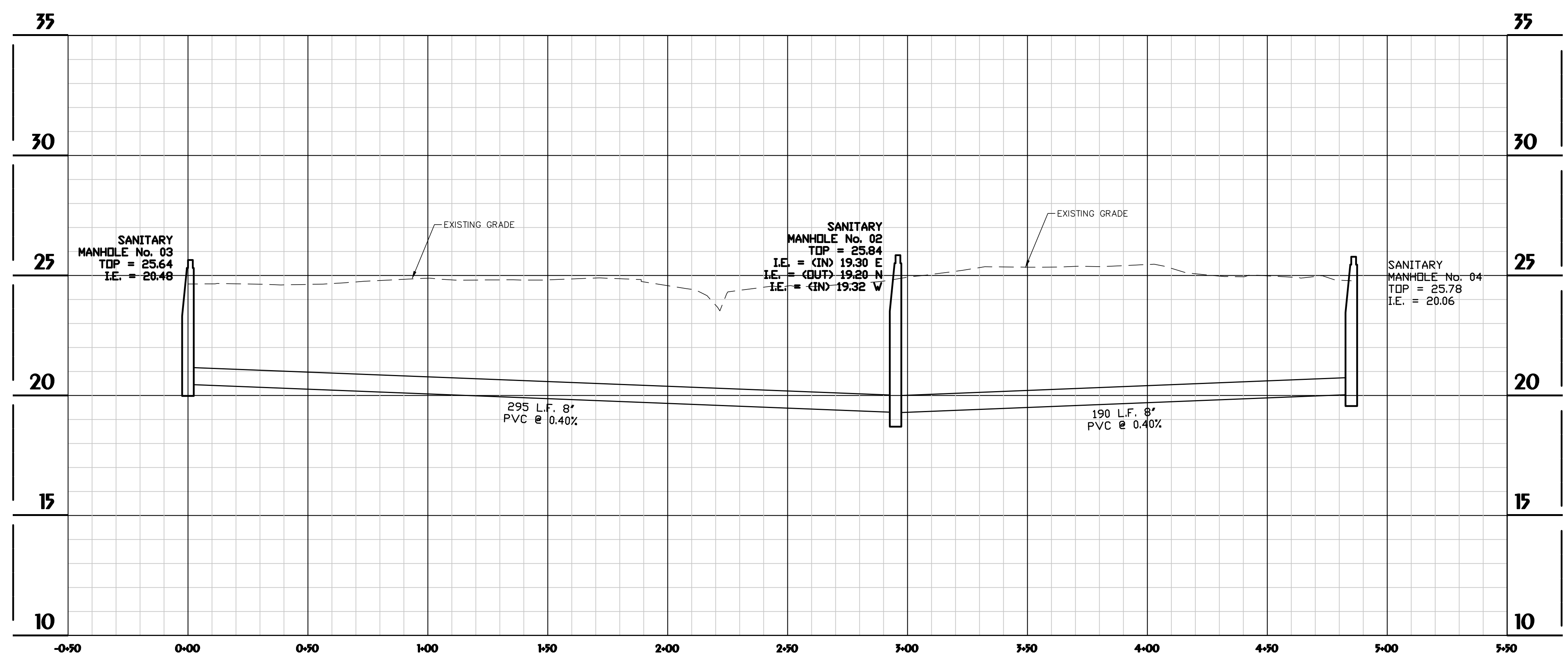
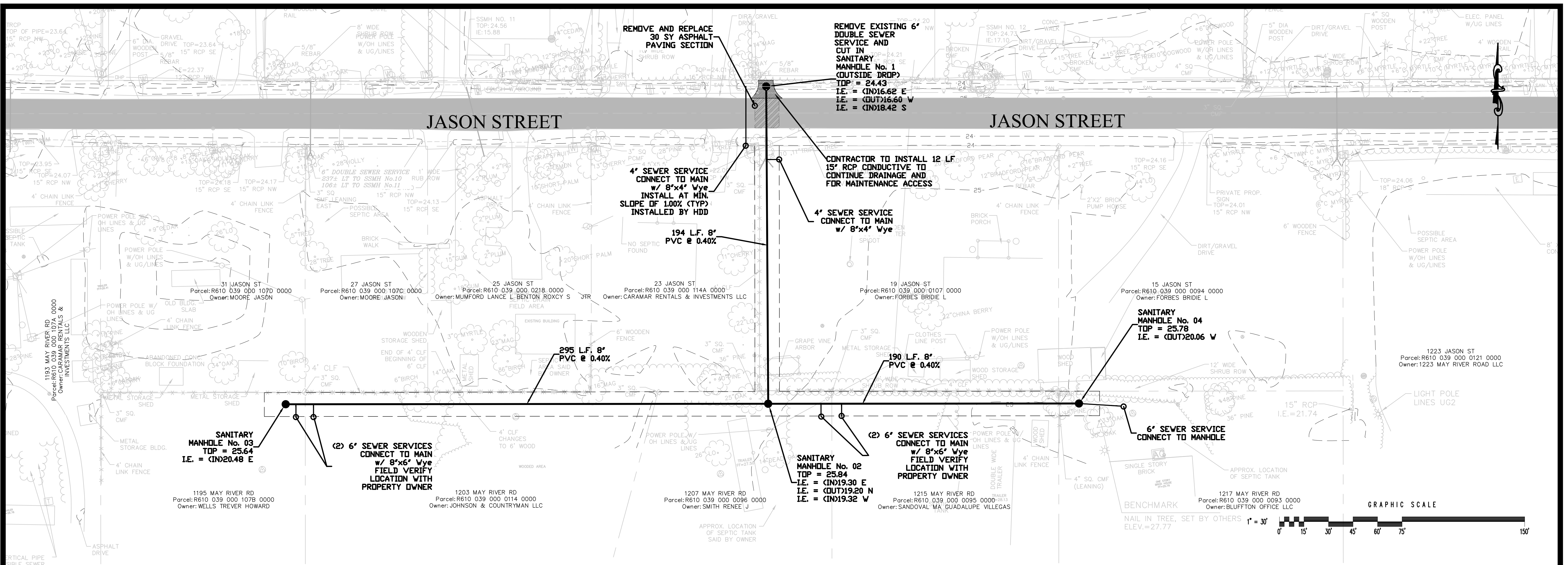
329 COMMERCIAL DRIVE, SAVANNAH, GA 31406 / T:912.354.4626
SAVANNAH ATLANTA STATESBORO CHARLESTON COLUMBIA NASHVILLE
www.husseygaybell.com



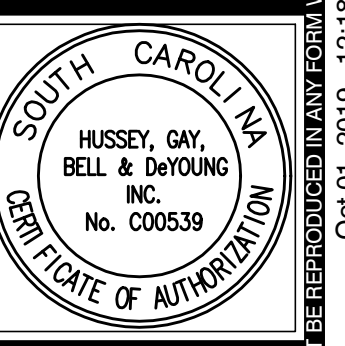
VICINITY MAP
SCALE: 1" = 300'

SCHEDULE OF DRAWINGS	
01	COVER
02	CONSTRUCTION NOTES & LEGEND
03	PLAN AND PROFILE
04	PLAN AND PROFILE
05	EROSION CONTROL DETAILS
06	CONSTRUCTION DETAILS

ISSUED FOR BID



SEWER MAIN PROFILE
MH NO. 03 THRU MH NO. 04
SCALE: HOR. 1" = 30'; VER. 1" = 3'



HUSSEY GAY BELL
Established 1958

329 COMMERCIAL DRIVE, SAVANNAH, GA 31406 / T:912.354.4626

REVISIONS:

NO.	DATE	DESCRIPTION

DESIGNED	DRAWN	CHECKED
JG	JG	JO
DATE: OCTOBER 2019		
JOB NO. 118208826		
SCALE: AS SHOWN		

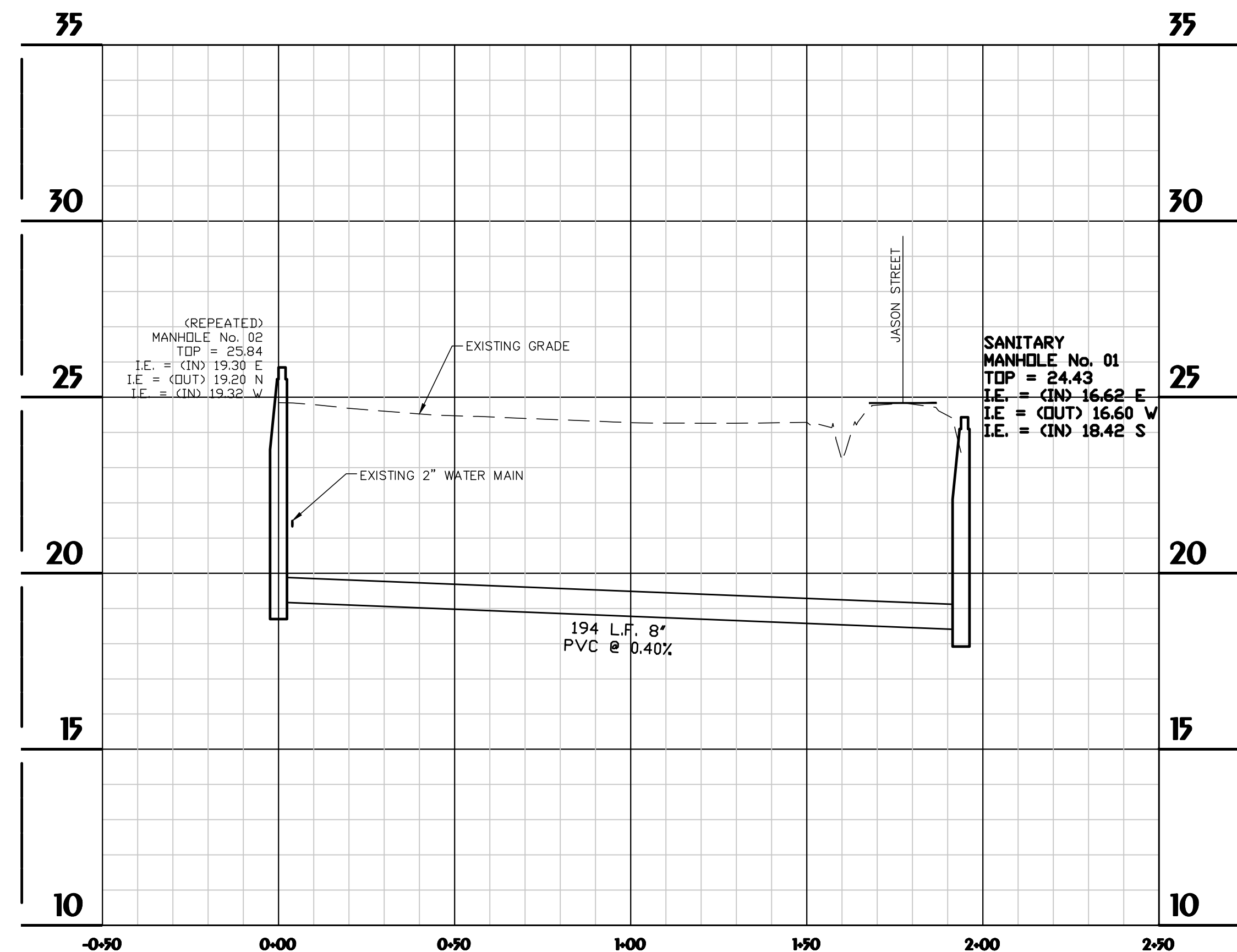
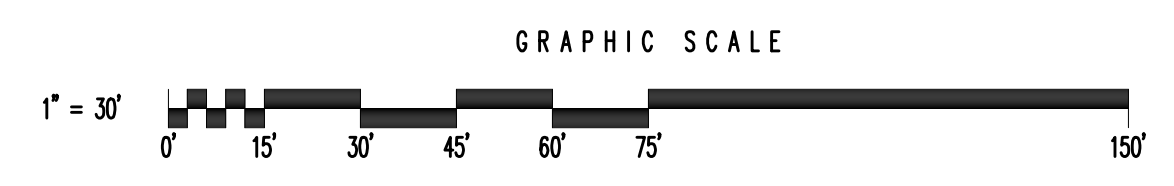
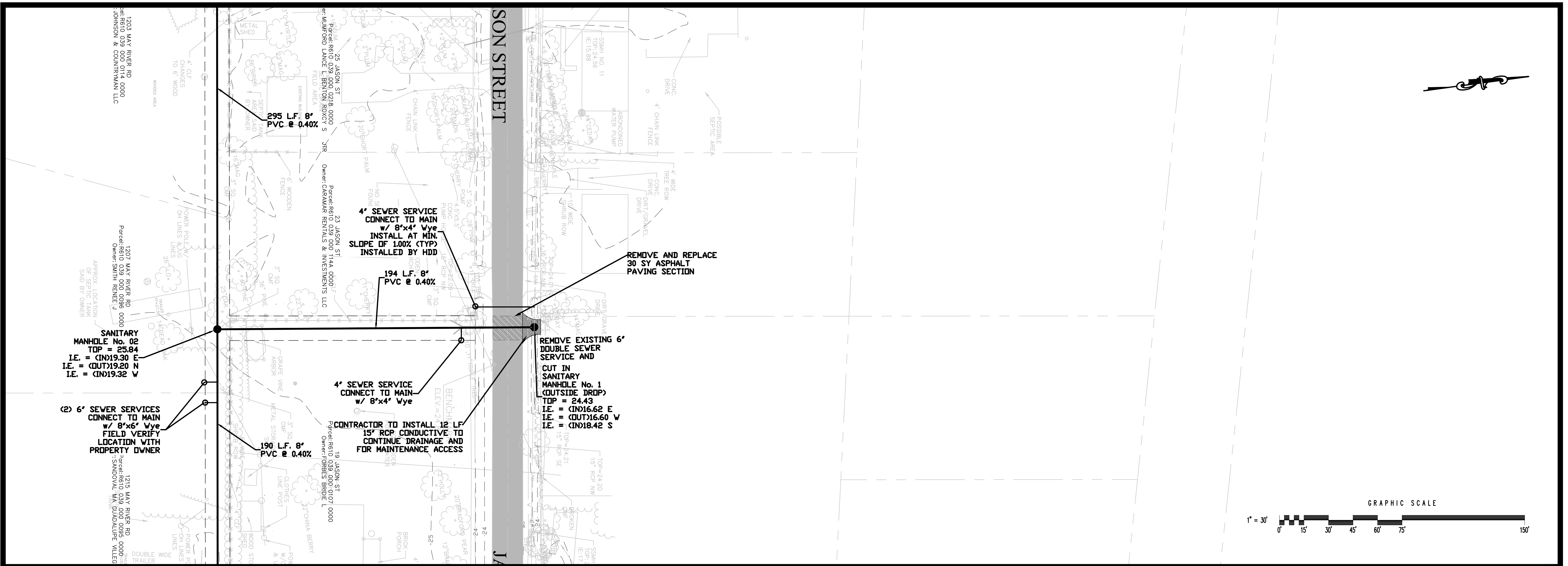
JASON STREET SEWER EXTENSION
BLUFFTON, SOUTH CAROLINA
BEAUFORT-JASPER WATER AND SEWER AUTHORITY
BIWSA PROJECT CIP-1770

PLAN AND PROFILE

DRAWING NUMBER
03
OF 06

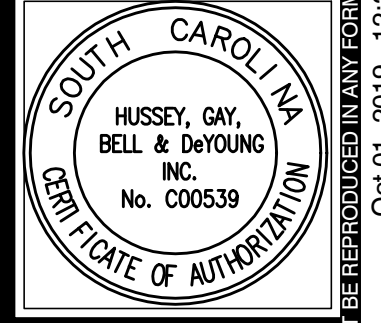
ISSUED FOR BID

SOUTH CAROLINA PROFESSIONAL ENGINEER JENNIFER L. DEBEN LICENSE NO. 25049
 SOUTH CAROLINA PROFESSIONAL ENGINEER HUSSEY, GAY, BELL & DEYOUNG, INC. LICENSE NO. 000539
 JASON STREET SEWER EXTENSION BLUFFTON, SOUTH CAROLINA BEAUFORT-JASPER WATER AND SEWER AUTHORITY BIWSA PROJECT CIP-1770
 DRAWING NUMBER 03 OF 06
 DATE: OCTOBER 2019
 JOB NO. 118208826
 SCALE: AS SHOWN
 HUSSEY, GAY, BELL & DEYOUNG, INC. 329 COMMERCIAL DRIVE, SAVANNAH, GA 31406 / T:912.354.4626
 ESTABLISHED 1958
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SEWER MAIN PROFILE
MH NO. 01 THRU MH NO. 02
SCALE: HOR. 1" = 30'; VER. 1" = 3'

ISSUED FOR BID



HUSSEY GAY BELL
Established 1958
329 COMMERCIAL DRIVE, SAVANNAH, GA 31406 / T:912.354.4626

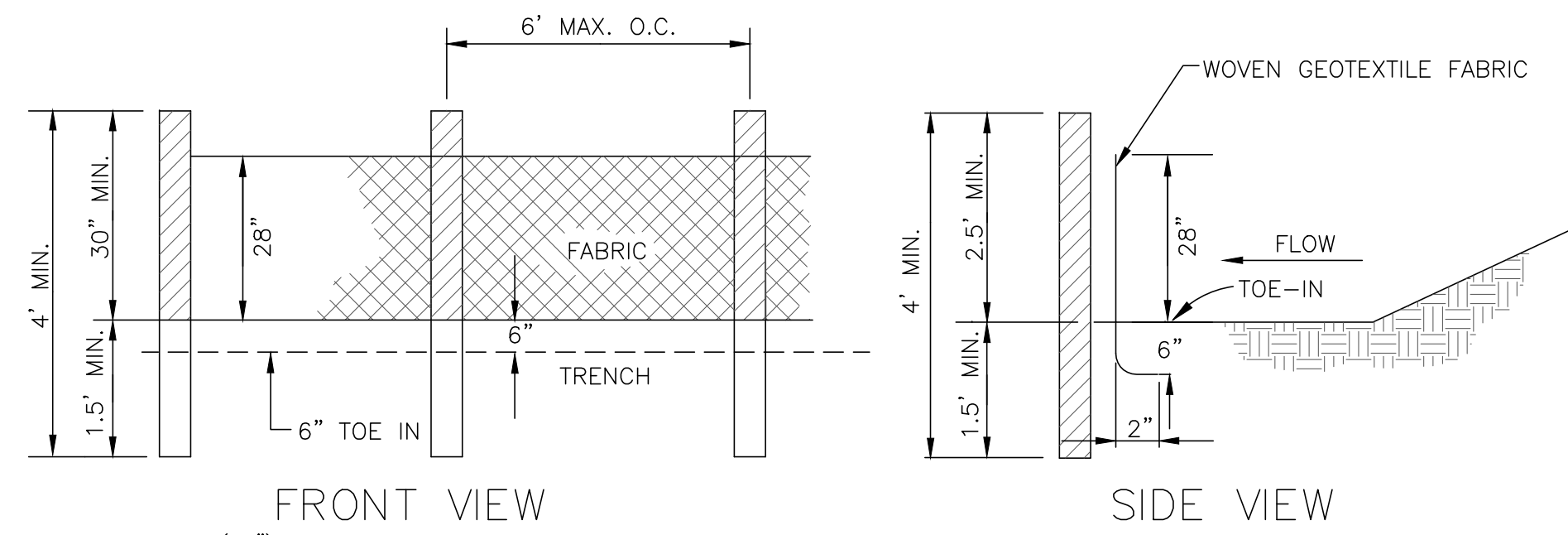
REVISIONS:

NO.	DATE	DESCRIPTION

DESIGNED	DRAWN	CHECKED
JG	JG	JO
DATE: OCTOBER 2019		
JOB NO. 118208826		
SCALE: AS SHOWN		

JASON STREET SEWER EXTENSION
BLUFFTON, SOUTH CAROLINA
BEAUFORT-JASPER WATER AND SEWER AUTHORITY
BIWSA PROJECT CIP-1770
PLAN AND PROFILE

DRAWING NUMBER
04
OF 06



TYPE A FABRIC (36")
 USE:
 1) ON DEVELOPMENTS WHERE THE LIFE OF THE PROJECT IS GREATER THAN OR EQUAL TO 6 MONTHS.
 2) WHERE THE SLOPE GRADIENT IS STEEPER THAN 3:1.

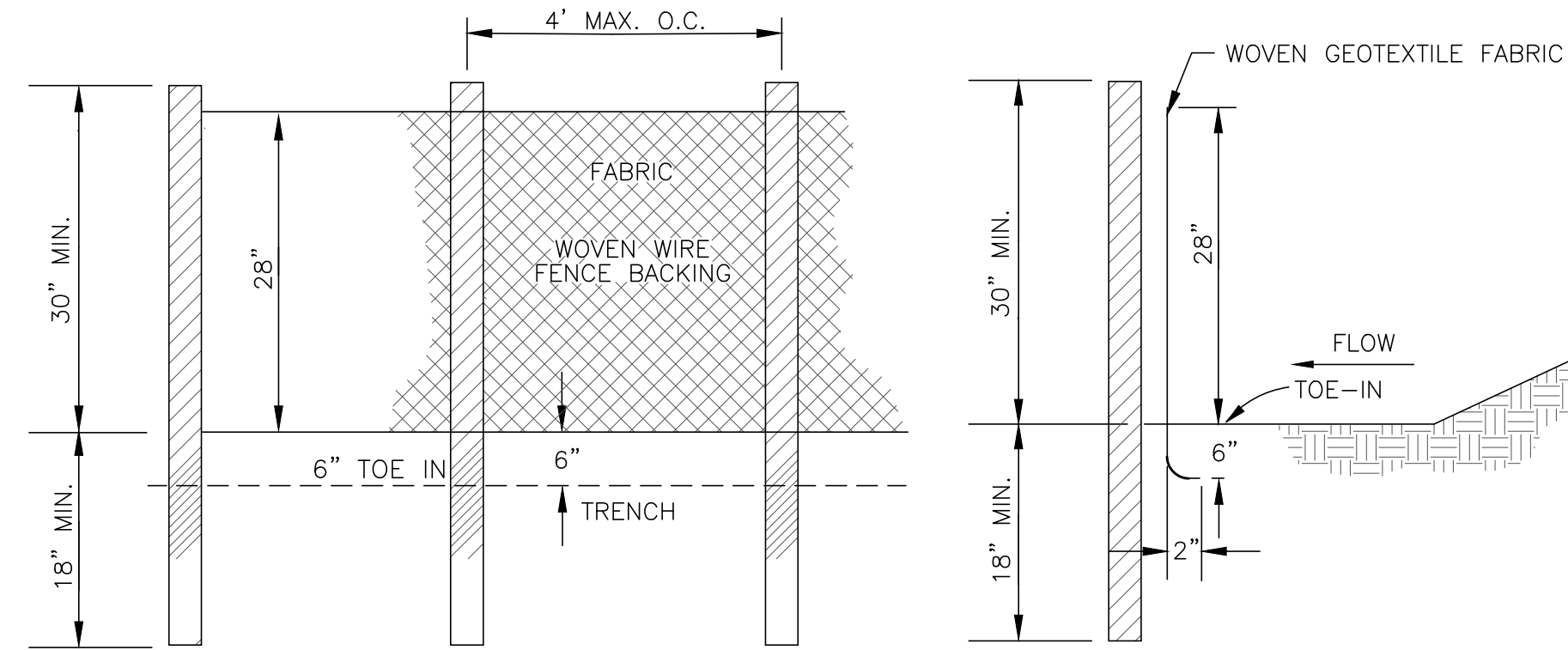
POST SIZE			FASTENERS FOR WOOD POST (WIRE STAPLES)			
MIN. LENGTH	TYPE OF POST	SIZE OF POST	GAUGE	CROWN	LEGS	STAPLES/POST
4'	STEEL	1.3 LB./FT. MIN.	17 MIN.	3/4" WIDE	1/2" LONG	5 MIN.

FENCE						
TENSILE STRENGTH (LBS. MIN.) (1)	ELONGATION (%MAX.) (ASTM D-4632)	AOS (APPARENT OPENING SIZE) (MAX. SIEVE SIZE) (ASTM D-4751)	FLOW RATE (GAL./MIN./SQ. FT.) (GDT-B7)	ULTRAVIOLET STABILITY (2) (ASTM D-4632 AFTER 300 HOURS WEATHERING IN ACCORDANCE WITH ASTM D-4355)	BURSTING STRENGTH (PSI MIN.) (ASTM D-3786 DIAPHRAGM BURSTING STRENGTH TESTER)	FABRIC WIDTH (INCHES)
WARP-120 FILL-100	40	#30	25	80	175	36

NOTE: FILTER FABRIC MAY ALSO BE ATTACHED TO THE POST BY WIRE, CORD, AND POCKETS.
 (1) MIN. ROLL AVERAGE OF FIVE SPECIMENS.
 (2) PERCENT OF REQUIRED INITIAL MIN. TENSILE STRENGTH.

SEDIMENT BARRIER SILT FENCE - TYPE NS

Sd1-NS



TYPE C FABRIC (36")
 USE: WHERE FILL SLOPES EXCEED A VERTICAL HEIGHT OF 20 FEET AND THE SLOPE GRADIENT IS STEEPER THAN 3:1.

POST SIZE			FASTENERS FOR WOOD POST (NAILS)			
MIN. LENGTH	TYPE OF POST	SIZE OF POST	GAUGE	LENGTH	BUTTON HEADS	NAIL/POST
4'	STEEL	1.3 LB./FT. MIN.	14 MIN.	1"	3/4"	4 MIN.

FENCE						
TENSILE STRENGTH (LBS. MIN.) (1)	ELONGATION (%MAX.) (ASTM D-4632)	AOS (APPARENT OPENING SIZE) (MAX. SIEVE SIZE) (ASTM D-4751)	FLOW RATE (GAL./MIN./SQ. FT.) (GDT-B7)	ULTRAVIOLET STABILITY (2) (ASTM D-4632 AFTER 300 HOURS WEATHERING IN ACCORDANCE WITH ASTM D-4355)	BURSTING STRENGTH (PSI MIN.) (ASTM D-3786 DIAPHRAGM BURSTING STRENGTH TESTER)	MIN. FABRIC WIDTH (INCHES)
WARP-260 FILL-180	40	#30	70	80	175	36

NOTE:
 1. USE 36" D.O.T. APPROVED FABRIC USE STEEL POSTS ONLY.
 2. WHEN DOUBLE ROW OF SILT FENCE IS REQUIRED, PLACE ROWS WITH 30" OF SEPARATION.

SEDIMENT BARRIER SILT FENCE - TYPE S

Sd1-S

SEEDING SCHEDULE

Ws2 Ws3

SPECIES	WINTER/SPRING	
	RATE (LB./ACRE)	DATE
RYE (GRAIN)	120	
ANNUAL LESPEDEZA (KOBÉ IN PIEDMONT AND COASTAL PLAIN), KOREAN IN MOUNTAINS, COMMON BERMUDA (HILLED)	50	
	10	

OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE.
SEEDING DATES:
 MOUNTAINS - ABOVE 2500 FT: FEB. 15 - MAY 15
 BELOW 2500 FT: FEB. 1 - MAY 1
 PIEDMONT - JAN. 1 - MAY 1
 COASTAL PLAIN - DEC. 1 - APR. 15

SOIL AMENDMENTS:
 FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING

MAINTENANCE:
 RE-FERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, RE-FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SPECIES	SUMMER	
	RATE (LB./ACRE)	DATE
GERMAN MILLET	40	
COMMON BERMUDA (HILLED)	20	
IN THE PIEDMONT AND MOUNTAINS, A SMALL-STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE OF 450 LB/ACRE.		

SEEDING DATES:
 MOUNTAINS - MAY 15 - AUG. 15
 PIEDMONT - MAY 1 - AUG. 15
 COASTAL PLAIN - APR. 15 - AUG. 15

SOIL AMENDMENTS:
 FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
 RE-FERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, RE-FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

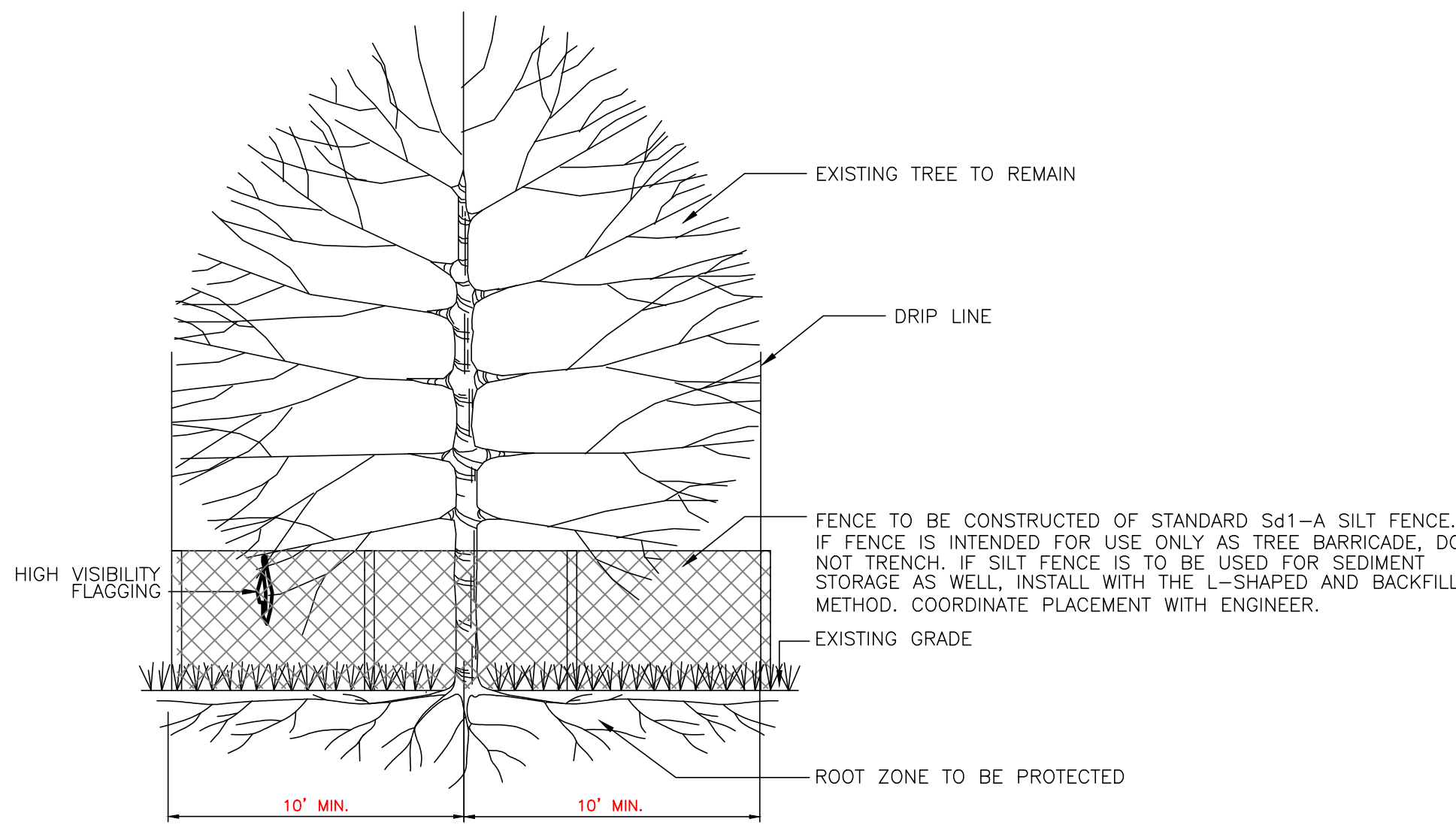
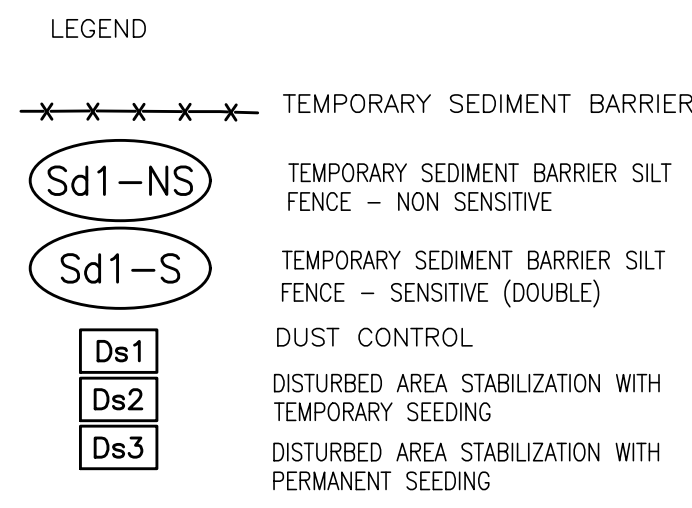
SPECIES	FALL	
	RATE (LB./ACRE)	DATE
RYE	120	
COMMON BERMUDA (HILLED)	10	

SEEDING DATES:
 MOUNTAINS - AUG. 15 - DEC. 15
 COASTAL PLAIN & PIEDMONT - AUG. 15 - DEC. 30 AND - APR. 15 - AUG. 15

SOIL AMENDMENTS:
 FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

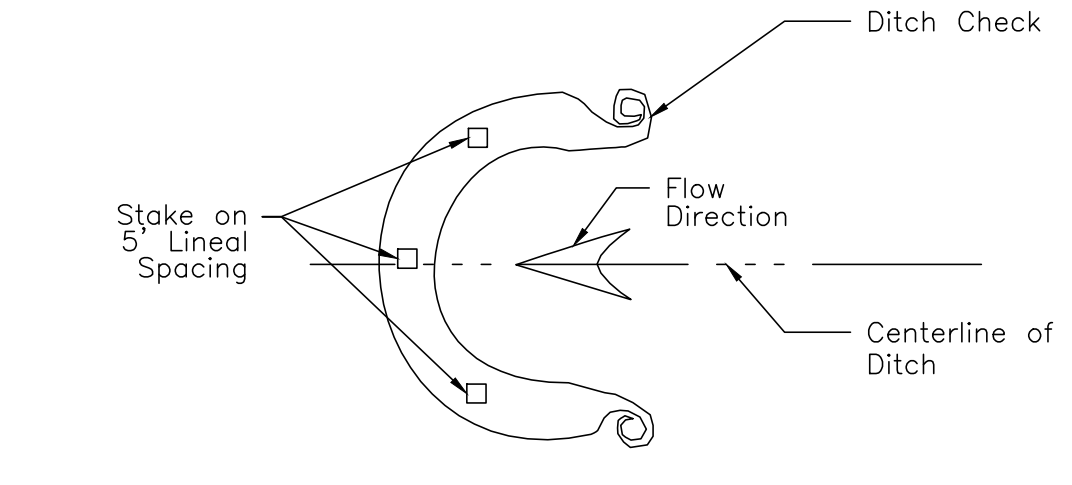
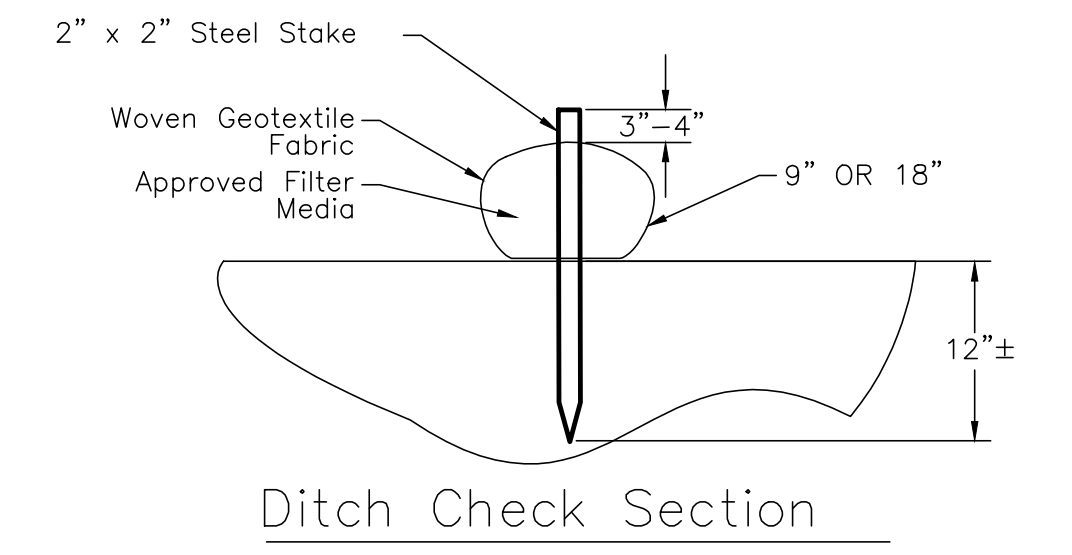
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING

TOOL:
MAINTENANCE:
 REPAIR AND RE-FERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LB/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/ACRE KOBÉ (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.



- NOTES:**
- COORDINATE ALL PRUNING, TREEWELLS AND TREE BARRICADES WITH THE PROJECT MANAGER.
 - NO GRADE CHANGES WITHIN TREE BARRICADE AREA.
 - POSITIVE DRAINAGE SHALL BE MAINTAINED FOR ALL TREES TO REMAIN.
 - ALL PRUNING OF PROTECTED TREES AND GRAND TREES SHALL BE DONE BY A QUALIFIED TREE SERVICE DURING DEVELOPMENT ACCORDING TO THE NATIONAL ARBORISTS ASSOCIATION, PRUNING STANDARDS FOR SHADE TREES.
 - USE TREE PROTECTION AS DIRECTED BY THE TOWN OF BLUFFTON PROJECT MANAGER.

TREE PROTECTION
 NOT TO SCALE

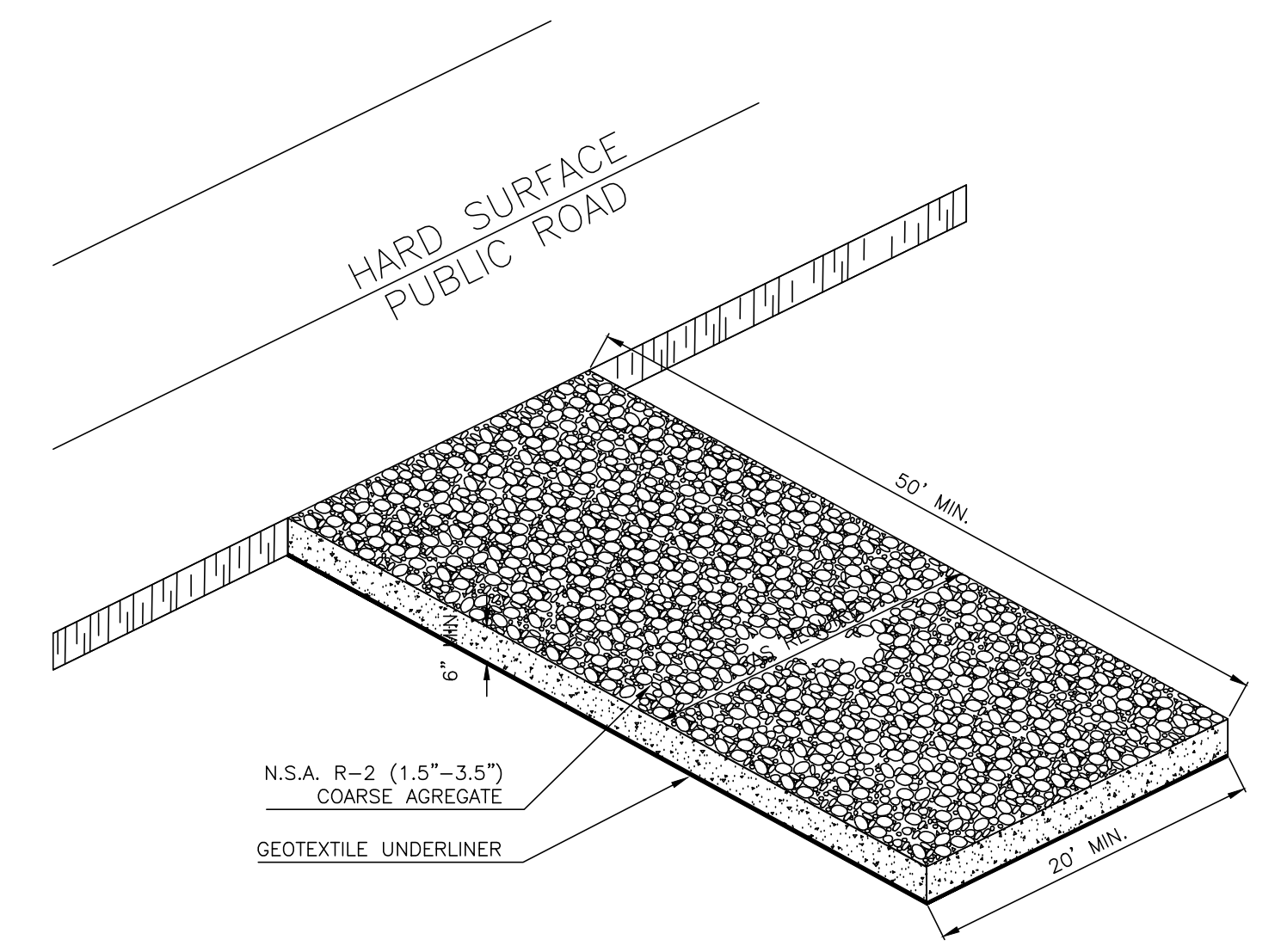


DITCH CHECK

- Notes:**
- All material to meet manufacturers specifications.
 - Filter/media fill to meet application requirements.
 - BMP depicted is for minimum slopes. Greater slopes may require larger socks per the Engineer.
 - Compost material to be dispersed on site, as determined by Engineer.
 - Geotextile fabric shall meet manufacturers specifications.
 - Filter media/compost shall meet manufacturers specifications.
 - Ditch Check products shall be Filtrix Ditch Chexx, Erosion Eels, BioD-SiltCheck, or other approved device.

DITCH CHECK

Sd2-F

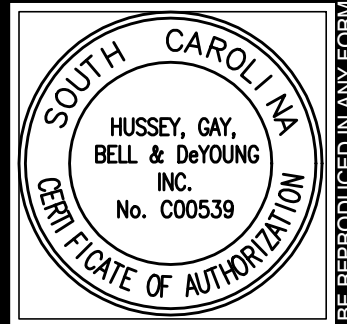


CRUSHED STONE CONSTRUCTION EXIT
 NOT TO SCALE

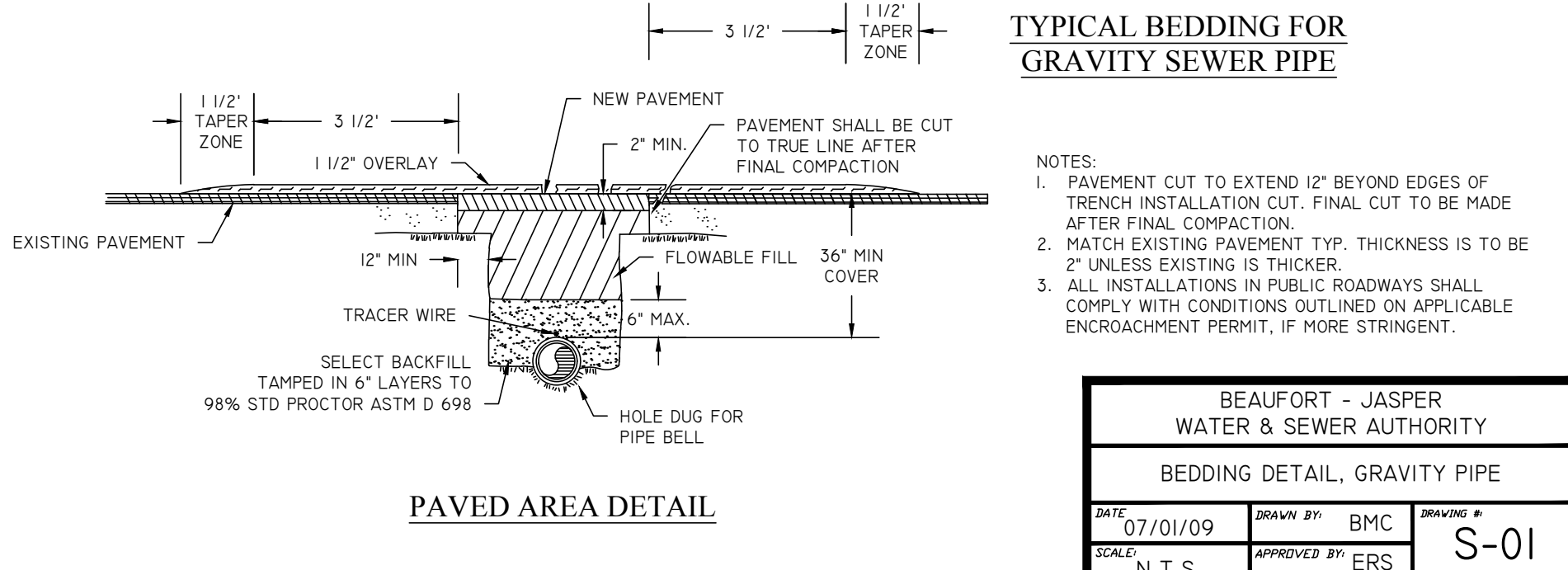
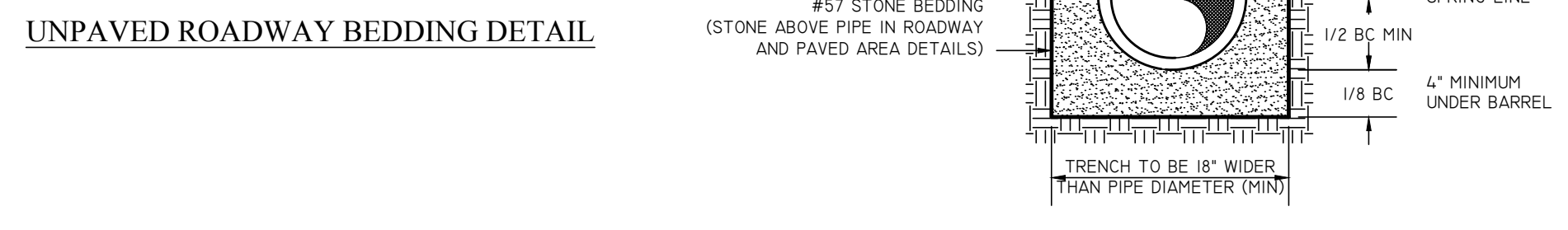
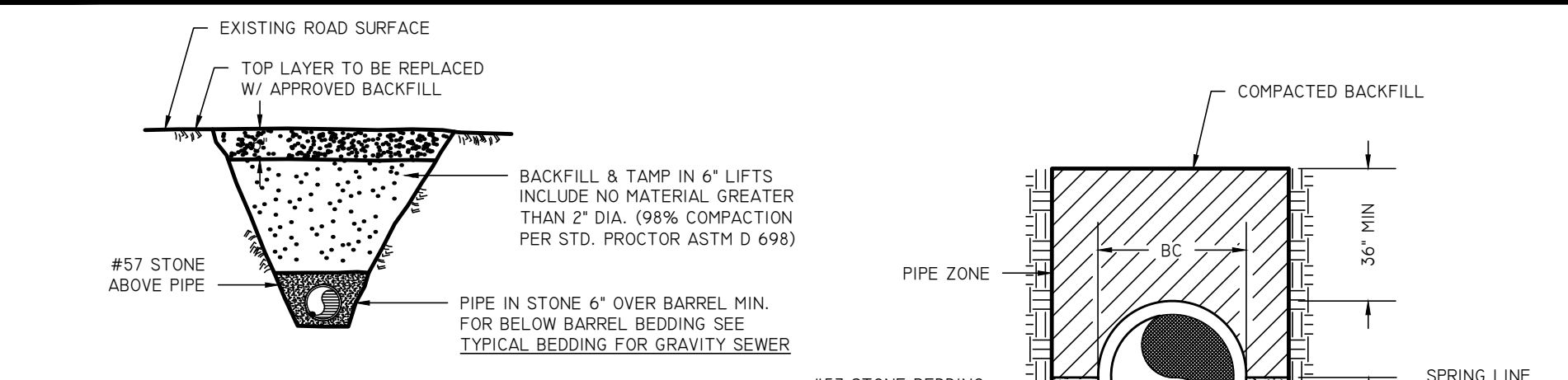
ISSUED FOR BID

JASON STREET SEWER EXTENSION
 BLUFFTON, SOUTH CAROLINA
BEAUFORT-JASPER WATER AND SEWER AUTHORITY
 BWSA PROJECT CIP-1570
EROSION CONTROL DETAILS

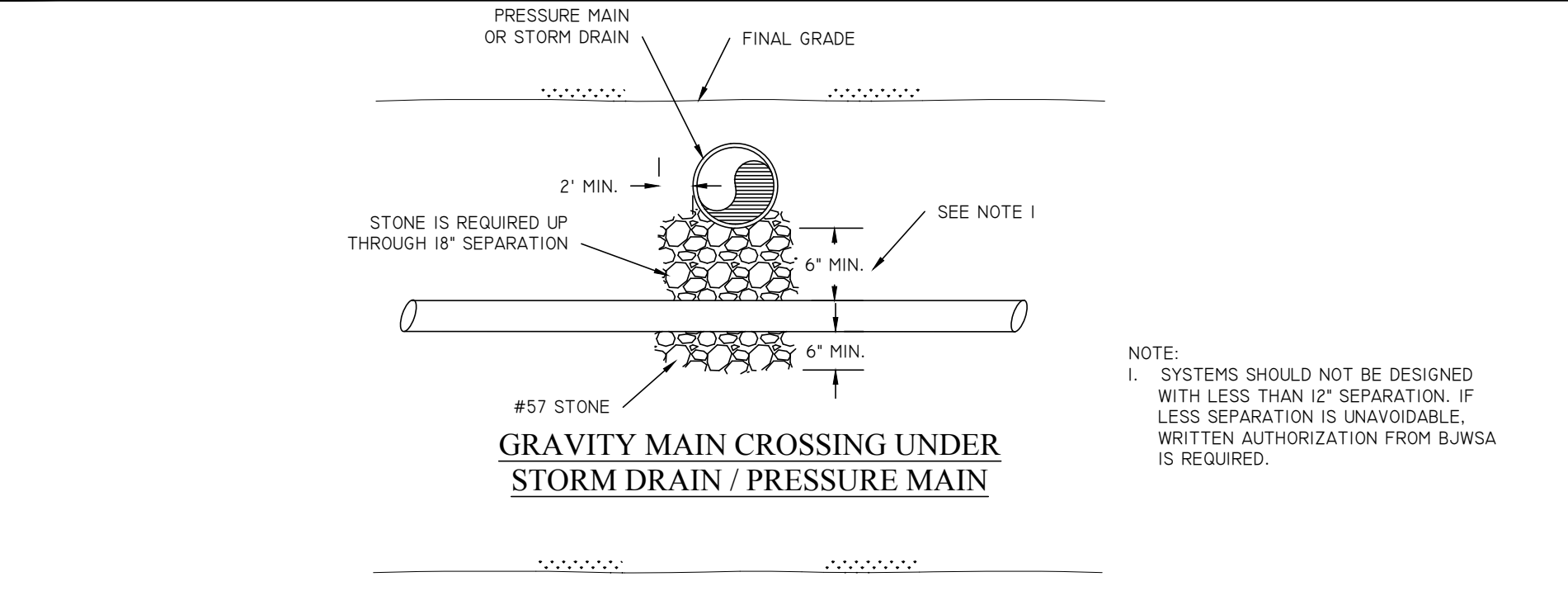
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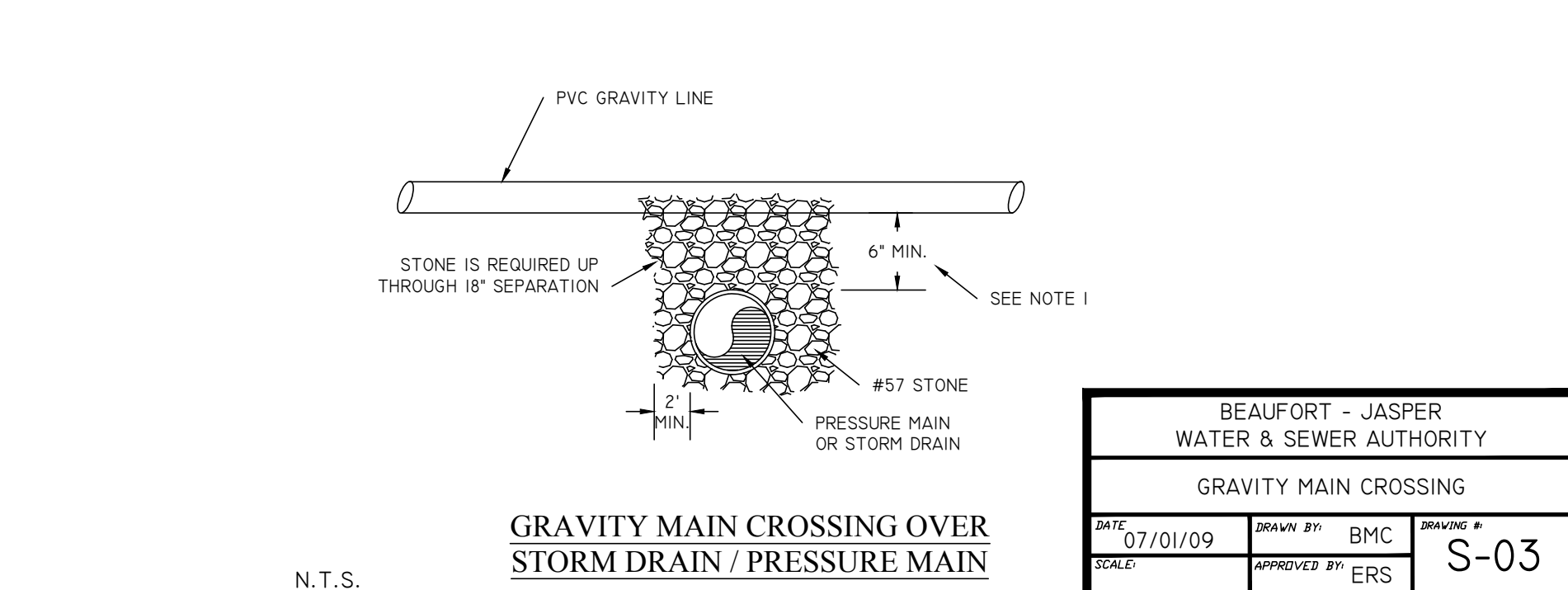
HUSSEY GAY BELL
 Established 1958
 329 COMMERCIAL DRIVE, SAVANNAH, GA 31406 / T: 912.354.4626



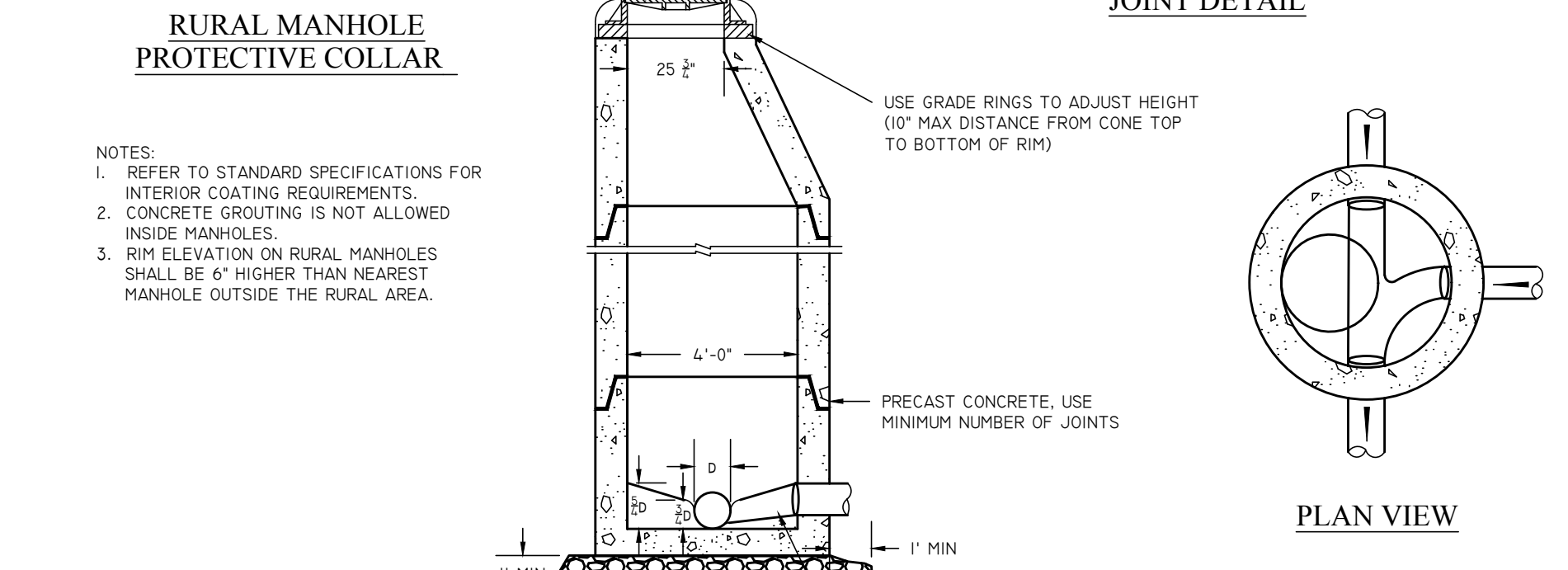
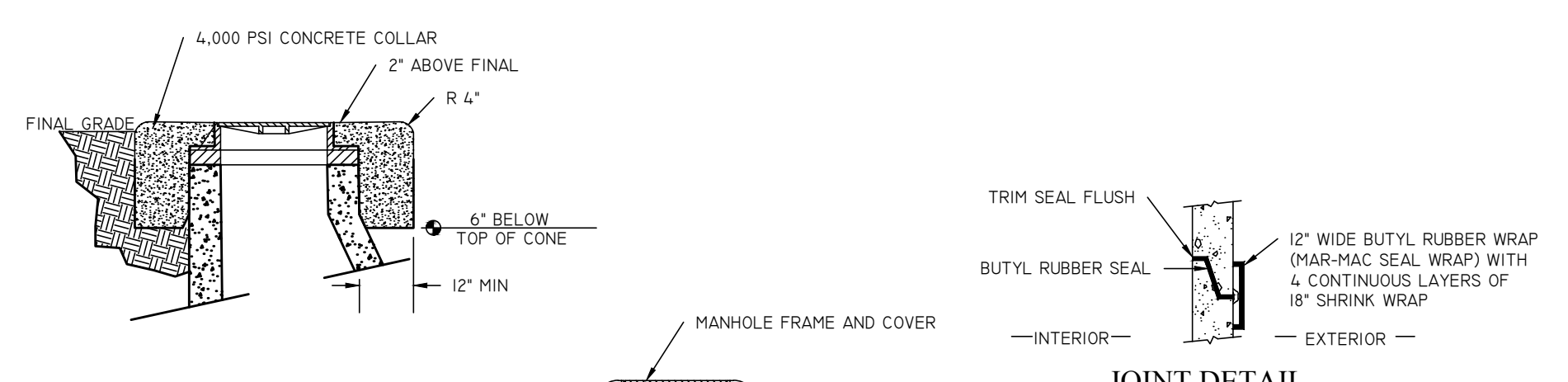
BEAUFORT - JASPER WATER & SEWER AUTHORITY		
BEDDING DETAIL, GRAVITY PIPE		
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SCALE: N.T.S.	APPROVED BY: ERS	



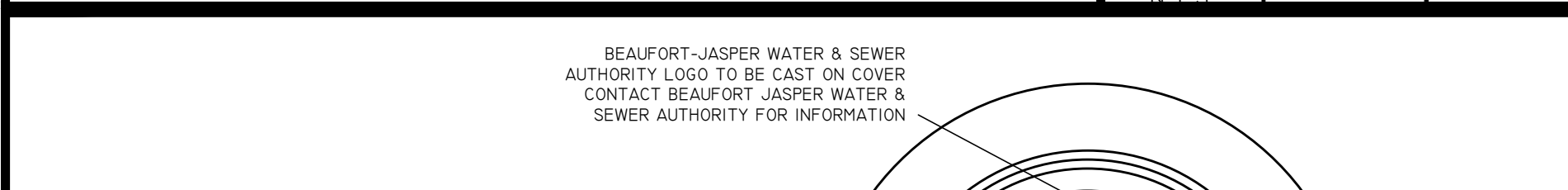
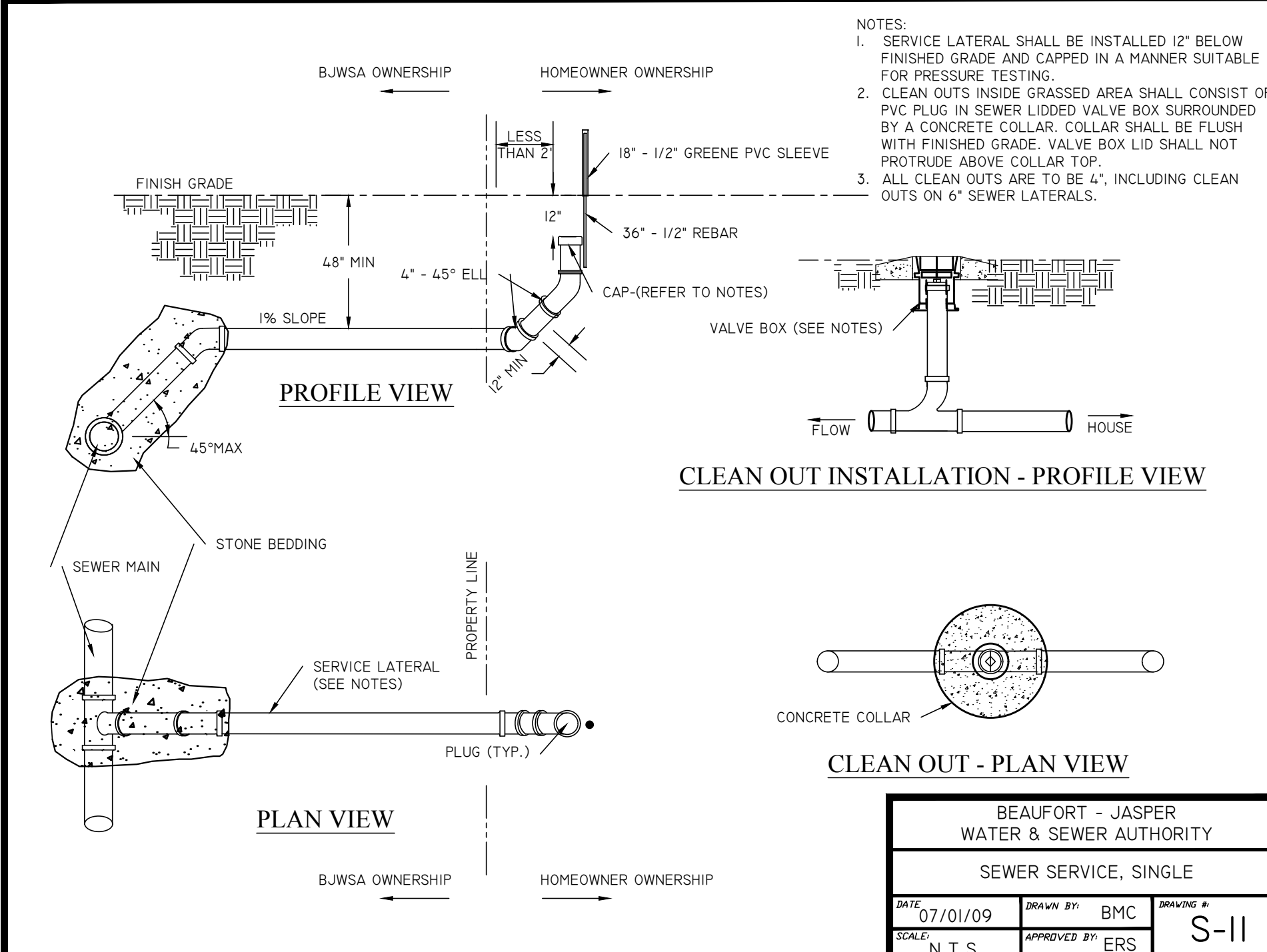
NOTE:
1. SYSTEMS SHOULD NOT BE DESIGNED WITH LESS THAN 12\"/>



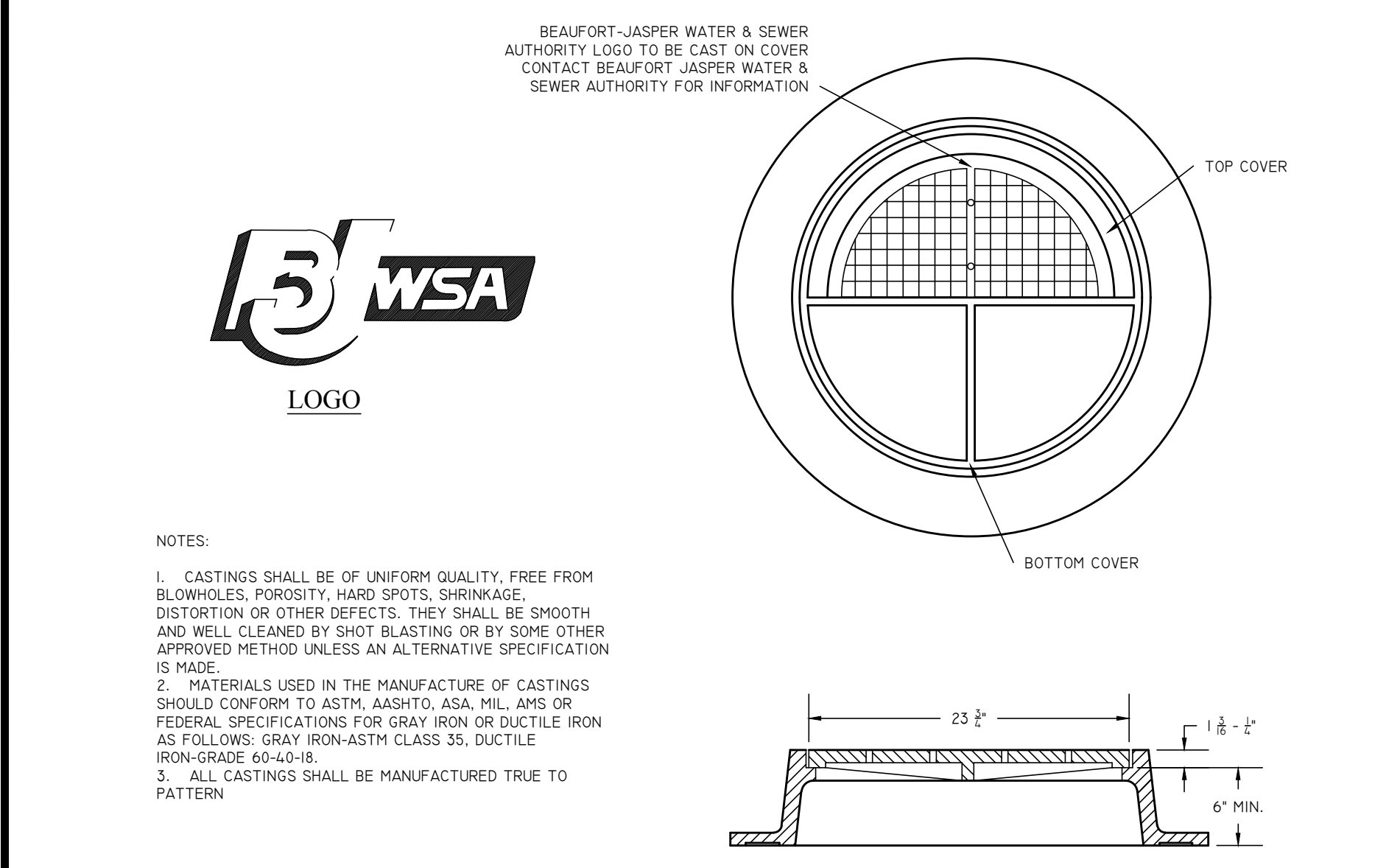
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GRAVITY MAIN CROSSING		
DATE: 07/01/09	DRAWN BY: BMC	DRAWING #: S-03
SCALE: N.T.S.	APPROVED BY: ERS	



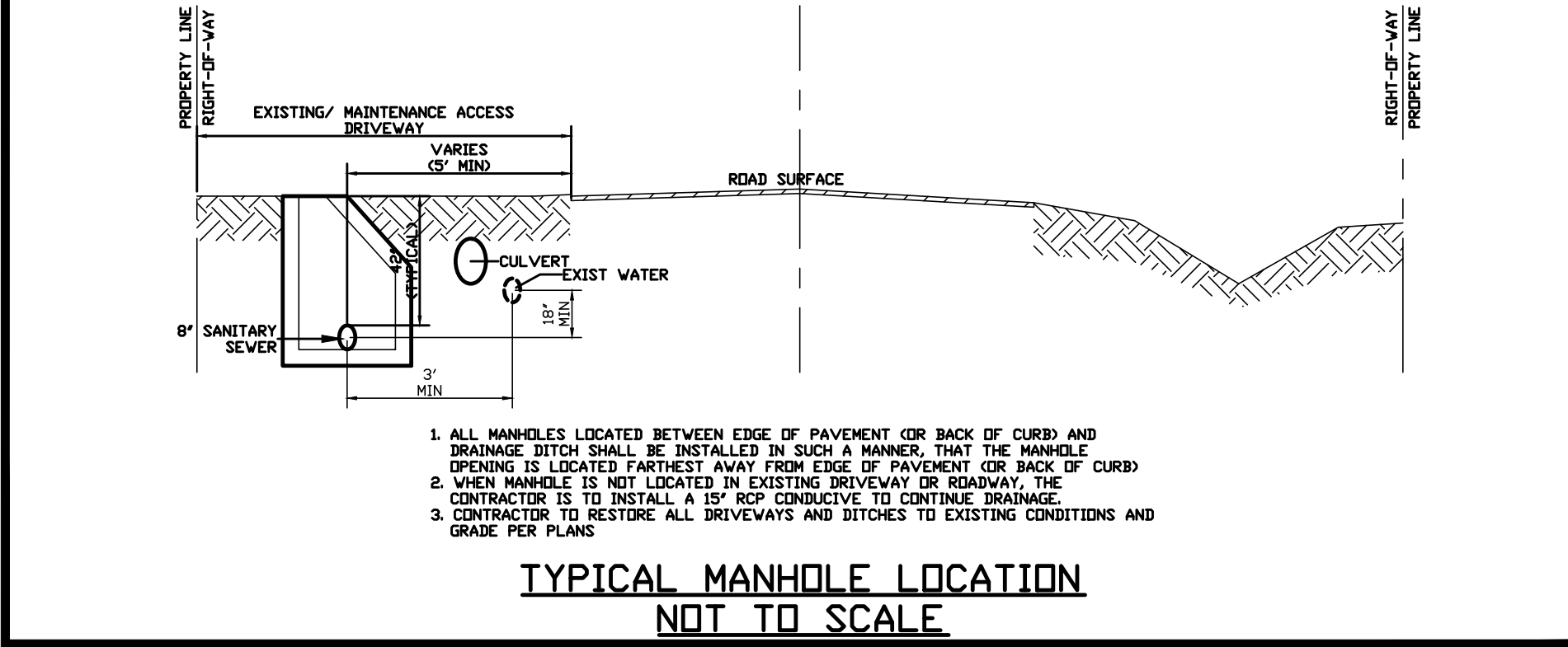
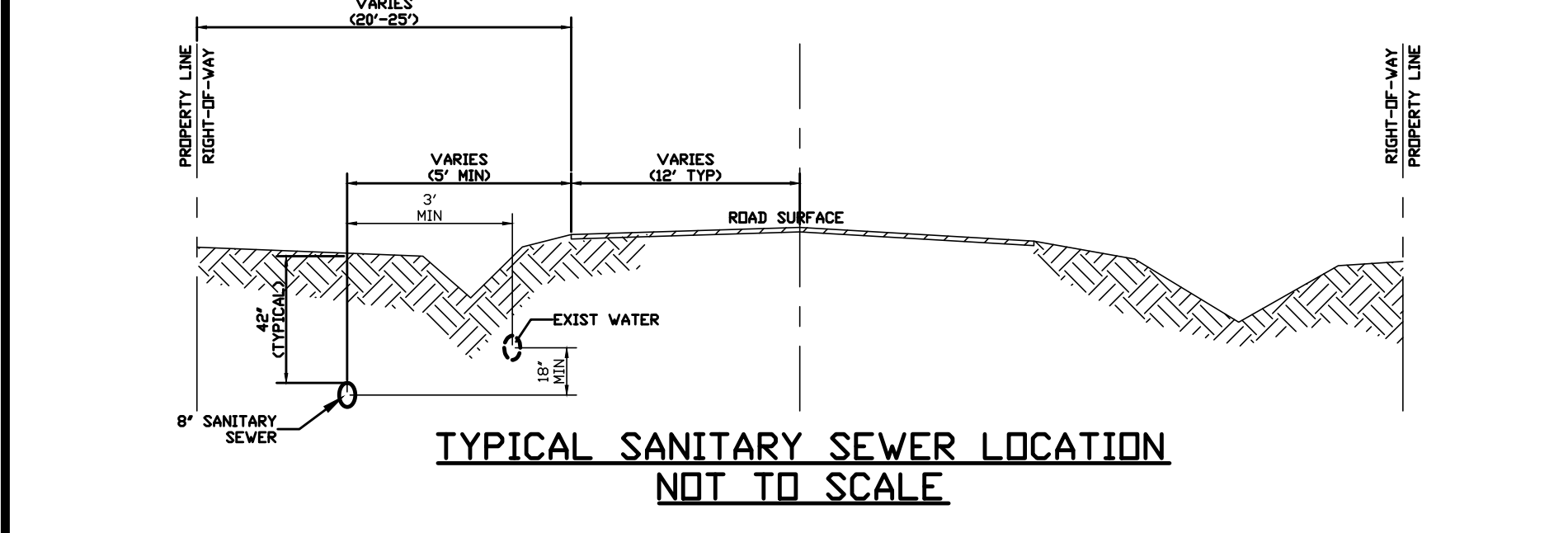
BEAUFORT - JASPER WATER & SEWER AUTHORITY		
STANDARD MANHOLE		
DATE: 07/01/09	DRAWN BY: BMC	DRAWING #: S-09
SCALE: N.T.S.	APPROVED BY: ERS	



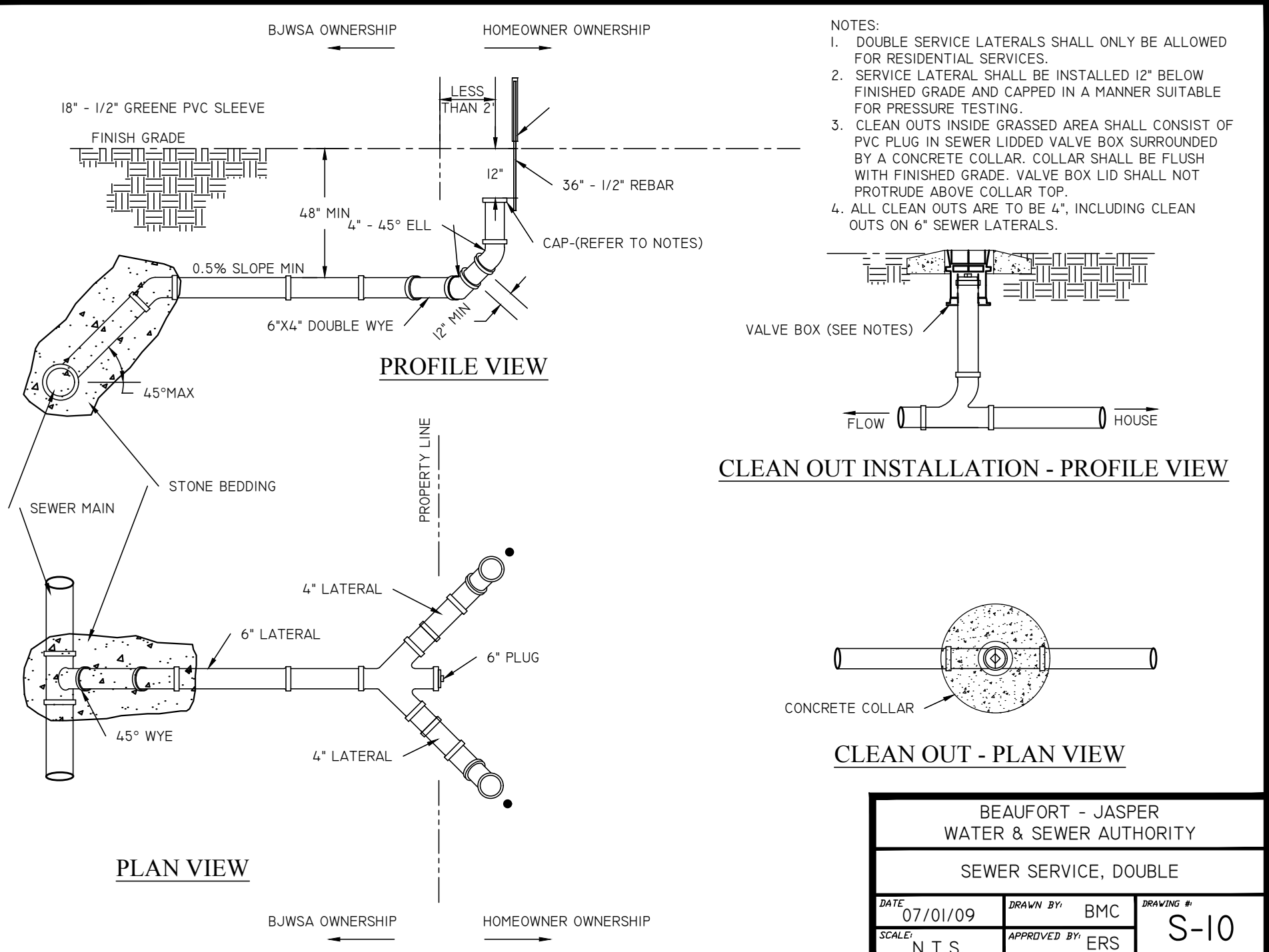
BEAUFORT - JASPER WATER & SEWER AUTHORITY		
SEWER SERVICE, SINGLE		
DATE: 07/01/09	DRAWN BY: BMC	DRAWING #: S-11
SCALE: N.T.S.	APPROVED BY: ERS	



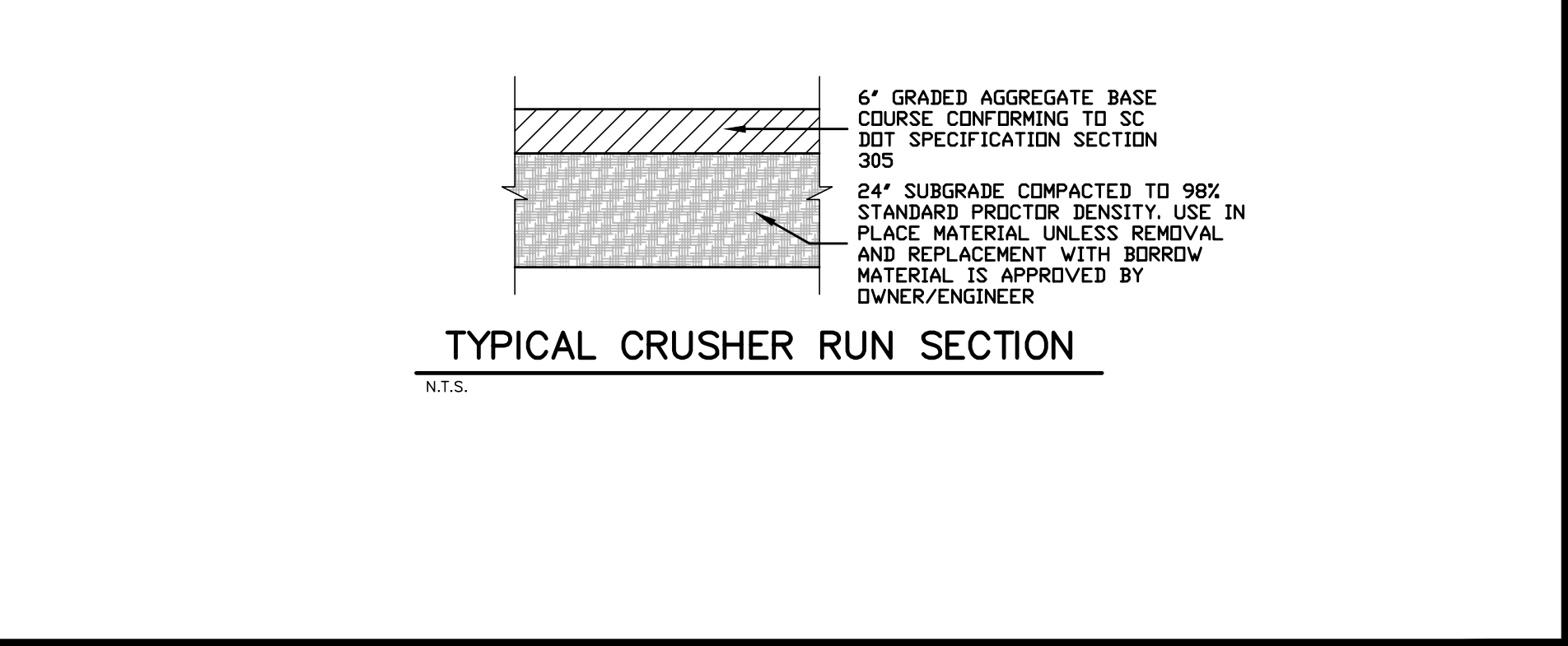
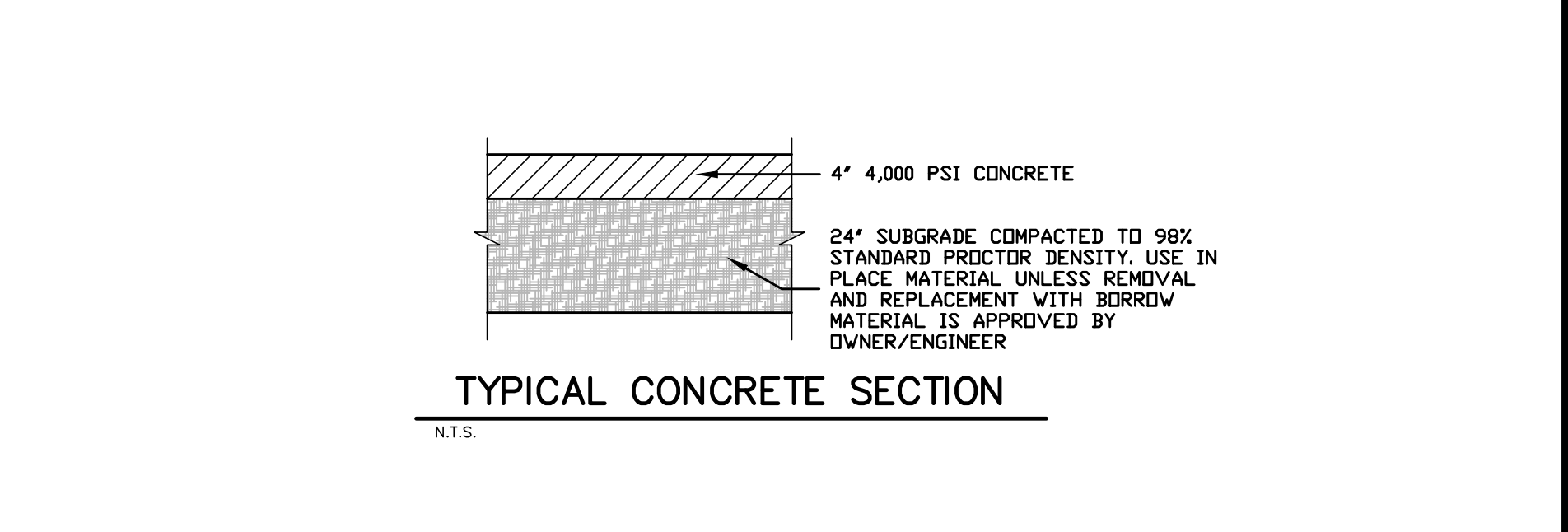
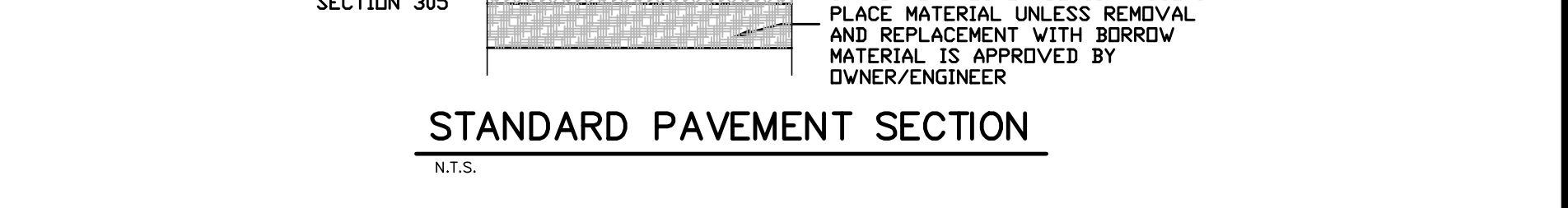
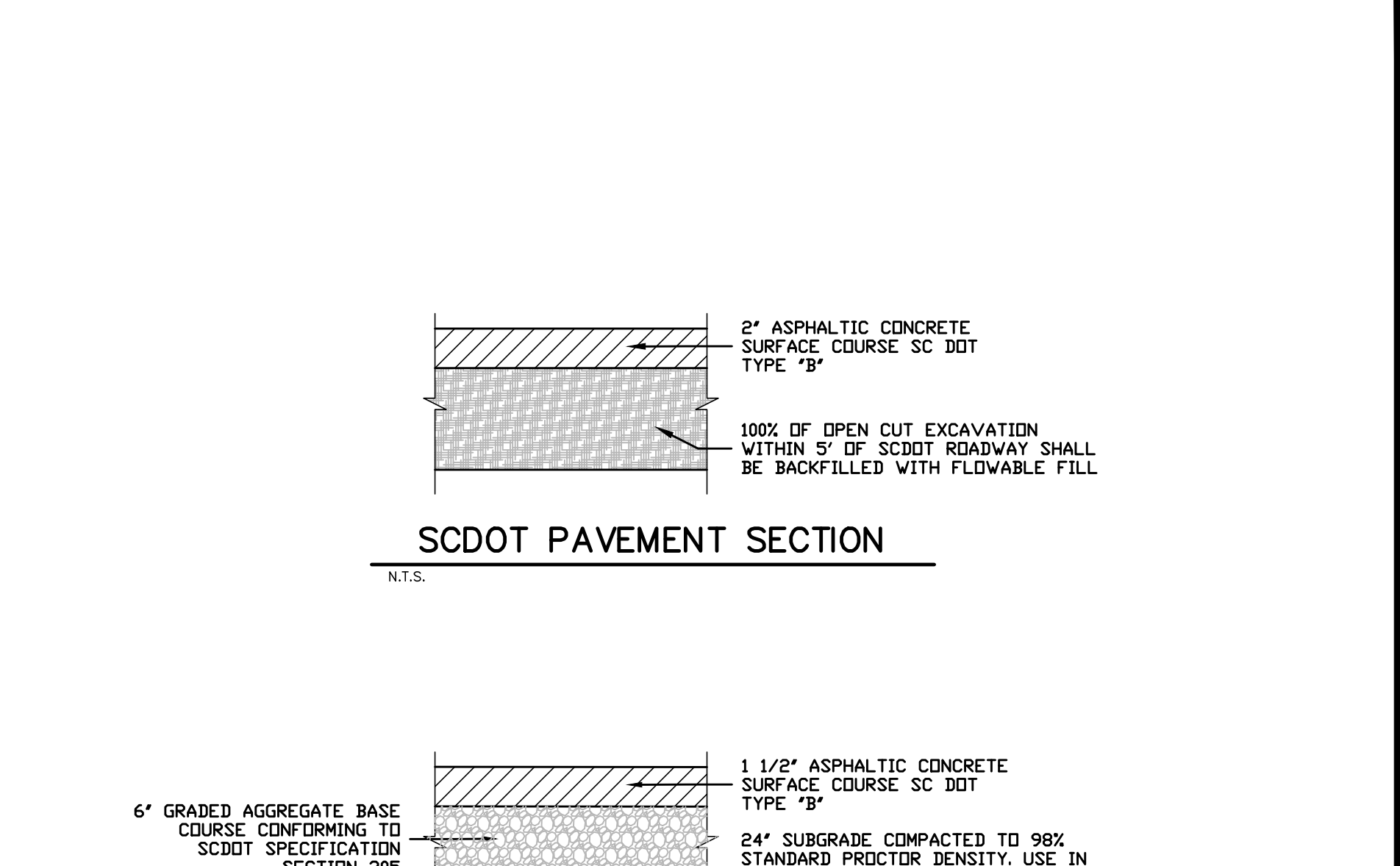
BEAUFORT - JASPER WATER & SEWER AUTHORITY		
MANHOLE, COVER AND FRAME		
DATE: 07/01/09	DRAWN BY: BMC	DRAWING #: S-05
SCALE: N.T.S.	APPROVED BY: ERS	


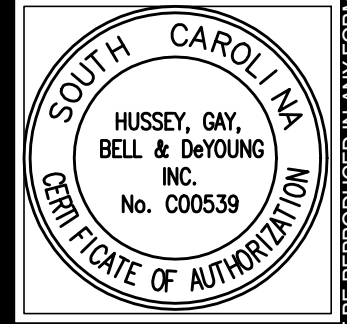


BEAUFORT - JASPER WATER & SEWER AUTHORITY		
TYPICAL MANHOLE LOCATION NOT TO SCALE		
1. ALL MANHOLES LOCATED BETWEEN EDGE OF PAVEMENT (OR BACK OF CURB) AND DRAINAGE DITCH SHALL BE INSTALLED IN SUCH A MANNER, THAT THE MANHOLE OPENING IS LOCATED FARTEST AWAY FROM EDGE OF PAVEMENT (OR BACK OF CURB)		
2. WHEN MANHOLE IS NOT LOCATED IN EXISTING DRIVEWAY OR ROADWAY, THE CONTRACTOR IS TO INSTALL A 15\"/>		
3. CONTRACTOR TO RESTORE ALL DRIVEWAYS AND DITCHES TO EXISTING CONDITIONS AND GRADE PER PLANS		



BEAUFORT - JASPER WATER & SEWER AUTHORITY		
SEWER SERVICE, DOUBLE		
DATE: 07/01/09	DRAWN BY: BMC	DRAWING #: S-10
SCALE: N.T.S.	APPROVED BY: ERS	



HUSSEY GAY BELL
Established 1958

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ISSUED FOR BID

JASON STREET SEWER EXTENSION
 BLUFFTON, SOUTH CAROLINA
FOR THE
BEAUFORT-JASPER WATER AND SEWER AUTHORITY
BWSA PROJECT CIP-1970

CONSTRUCTION DETAILS

DESIGNED	DRAWN	CHECKED
JG	JG	JO
DATE: OCTOBER 2019		
JOB NO. 118208826		
SCALE: AS SHOWN		

DRAWING NUMBER		
06		
OF 06		

E:\BWSA\11820826 BWSA-JASON ST SEWER EXT\Cadd Files\E\181514 CONSTRUCTION DETAILS-CPY BLUFFTON.dwg