CONSTRUCTION PLANS

FOR

CANAL ROAD WATER & SEWER IMPROVEMENTS

BRUNSWICK, GLYNN COUNTY, GEORGIA

1356TH GEORGIA MILITIA DISTRICT

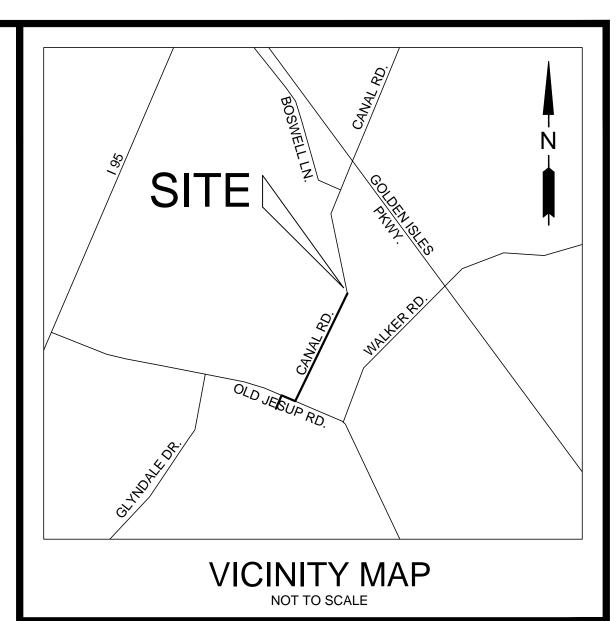
SEPTEMBER 2015
REVISED DECEMBER 2015

EMC PROJECT NO. 15-5028

OWNER:

BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION 1703 GLOUCESTER STREET BRUNSWICK, GEORGIA, 31520 (912) 261-7100





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GENERAL NOTES

- 1. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT ALL REQUIRED PERMITS ARE OBTAINED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 2. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING:
 - A. BRUNSWICK GLYNN JOINT WATER & SEWER COMMISSION STANDARDS AND SPECIFICATIONS AND DETAILS.
 - B. GEORGIA RULES FOR SAFE DRINKING WATER CHAPTER 391-3-5 PROMULGATED UNDER THE GEORGIA SAFE DRINKING WATER ACT.
 - C. GEORGIA EPD MINIMUM STANDARDS FOR PUBLIC WATER SYSTEMS, LATEST EDITION.
 - D. AMERCIAN WATER WORKS ASSOCIATION (AWWA)
 - E. APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS
 IN THE EVENT OF CONFLICTS AMONG THE VARIOUS SOURCES
 CITED ABOVE, THE MOST STRINGENT CRITERIA SHALL TAKE PRECEDENCE.
- PRIOR TO INSTALLATION OF ANY UTILITY LINES, THE CONTRACTOR SHALL GIVE THE UTILITY COMPANIES THREE (3) WORKING DAYS NOTICE TO ALLOW TIME FOR EXISTING UTILITIES TO BE STAKED. BEFORE CALLING (811) THE CONTRACTOR SHALL HAVE THE FOLLOWING INFORMATION READY: COUNTY, TOWN, LOCATION, NEAREST STREET INTERSECTIONS, TYPE OF WORK (SEWER, WATER, PAVING, ETC.) YOUR COMPANY NAME, TELEPHONE NUMBER, OWNER'S NAME, DATE AND TIME YOU EXPECT TO COMMENCE CONSTRUCTION, AND WHERE AND HOW YOU CAN BE REACHED AND THE BEST TIME TO CONTACT YOU. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLAN OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANIES, AND THE CONTRACTOR SHALL COOPERATE WITH THEM DURING RELOCATION OPERATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY VARIANCES PRIOR TO COMMENCEMENT OF WORK OR PURCHASING ANY MATERIALS.
- 4. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON THE PLANS AND ARE NOT NECESSARILY ACCURATE AS TO PLAN OR ELEVATION. UTILITY FACILITIES, SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON THE PLANS, WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES, EXCEPT AS NOTED BELOW. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UTILITY FACILITIES OTHER THAN SERVICE LINES FROM STREET MAINS TO ABUTTING PROPERTY WHEN SUCH FACILITIES ARE NOT SHOWN ON THE PLANS AND THEIR EXISTENCE IS UNKNOWN TO THE CONTRACTOR PRIOR TO THE DAMAGES OCCURRING PROVIDING THE ENGINEER DETERMINES THE CONTRACTOR HAS OTHERWISE FULLY COMPLIED WITH THE SPECIFICATIONS.
- 5. IT IS THE OBLIGATION OF THE CONTRACTOR TO MAKE HIS OWN INTERPRETATION OF ALL SURFACE AND SUBSURFACE DATA AS TO THE NATURE AND EXTENT OF THE MATERIALS TO BE EXCAVATED. THE INFORMATION SHOWN ON THESE PLANS AND SPECIFICATIONS DOES NOT IN ANY WAY GUARANTEE THE AMOUNT OR NATURE OF THE MATERIAL WHICH MAY BE ENCOUNTERED.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND FURNISHING THE BORROW MATERIAL NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT. FILL MATERIAL SHALL BE CLEAN AND FREE OF ALL DEBRIS AND ORGANIC MATERIAL.
- 8. ALL ITEMS REMOVED FROM THE PROJECT, WHICH ARE NOT TO BE REUSED, SHALL BE MOVED TO A LOCATION APPROVED BY THE OWNER.
- 9. DURING CONSTRUCTION IN THE AREA OF AN INTERSECTION, WORK WILL BE PERFORMED IN SUCH A MANNER AS TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS DIRECTED BY THE ENGINEER, TO ALLOW TRAFFIC TO FLOW AS FREELY AS POSSIBLE. WHEN AN INTERSECTION IS INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL TRAFFIC.
- 10. ALL SIGNING SHALL BE PER DOT STANDARDS AND M.U.T.C.D.
- 11. PORTIONS OF THIS PROPERTY MAY CONTAIN WETLANDS. ALL WETLANDS ARE UNDER THE JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS AND/OR THE STATE OF GEORGIA, DEPT. OF NATURAL RESOURCES. PROPERTY OWNERS ARE SUBJECT TO PENALTY BY LAW FOR DISTURBANCE TO THESE PROTECTED AREAS WITHOUT PROPER PERMIT APPLICATION AND APPROVAL.
- 12. TOPOGRAPHIC FIELD SURVEY WAS COMPLETED BY SHUPE SURVEYING COMPANY, P.C.
- 13. HORIZONTAL CONTROL IS BASED ON GA. EAST ZONE NAD 83 AND VERTICAL CONTROL IS BASED ON NAVD 88.

WATERMAIN AMD FORCEMAIN NOTES

- 1. PIPES, FITTINGS, VALVES AND OTHER MATERIAL SHALL, UNLESS OTHERWISE DIRECTED, BE UNLOADED AT THE POINT OF DELIVERY, AND STORED WHERE THEY WILL BE PROTECTED AND WILL NOT BE HAZARDOUS TO TRAFFIC. THEY SHALL AT ALL TIMES BE HANDLED WITH CARE TO AVOID DAMAGE. THE INTERIOR OF ALL PIPE, FITTINGS AND OTHER ACCESSORIES SHALL BE KEPT FREE FROM ALL FOREIGN MATTER AT ALL TIMES.
- ANY DEFECTIVE, DAMAGED, OR UNSOUND PIPES SHALL BE REJECTED. ALL FOREIGN MATTER SHALL BE REMOVED FROM THE INSIDE OF THE PIPE BEFORE IT IS LOWERED INTO ITS POSITION IN THE TRENCH AND IT SHALL BE KEPT CLEAN BY APPROVED MEANS DURING AND AFTER LAYING. CARE SHALL BE TAKEN TO PREVENT FOREIGN MATTER FROM ENTERING THE JOINT SPACE. AT TIMES WHEN PIPE LAYING IS NOT IN PROGRESS, THE OPEN ENDS OF THE PIPE SHALL BE PLUGGED OR COVERED BY APPROVED MEANS, AND NO TRENCH WATER SHALL BE PERMITTED TO ENTER THE PIPE.
- 3. ALL MATERIALS, WORKMANSHIP, AND TESTING FOR WATER AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE BRUNSWICK GLYNN COUNTY JOINT WATER AND SEWER COMMISSION LATEST DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS.
- 4. ALL PHASES OF CONSTRUCTION SHALL COMPLY WITH THE GEORGIA RULES FOR SAFE DRINKING WATER, CHAPTER 391-3-5, THE GAEPD MINIMUM STANDARDS FOR PUBLIC WATER SYSTEMS, LATEST EDITION, THE AMERICAN WATER WORKS ASSOCIATION, AND ALL APPLICALBE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- ALL MATERIALS USED AND THAT COME INTO CONTACT WITH DRINKING WATER DURING ITS DISTRIBUTION SHALL NOT ADVERSELY AFFECT DRINKING WATER QUALITY AND PUBLIC HEALTH AND MUST BE CERTIFIED FOR CONFORMANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE / NATIONAL SANITARY FOUNDATION STANDARD 61 (ANSI/NSF STANDARD 61).
- 6. END OF THE DAY STORAGE OF EXCAVATION EQUIPMENT ALONG THE PROJECT ROUTE WILL BE ALLOWED ONLY AS APPROVED BY THE JWSC, OTHERWISE ALL EQUIPMENT SHALL BE STORED IN THE DESIGNATED MATERIALS STORAGE AREAS.
- TEMPORARY FENCING SHALL BE USED AROUND OPEN EXCAVATIONS AT ALL TIMES, EXCEPT AS NECESSARY FOR IMMEDIATE CONSTRUCTION. WHEN WORK IS NOT IN PROGRESS, FENCING SHALL ENCLOSE EXCAVATED AREAS. UTILITY TRENCHES SHALL BE BACKFILLED TO GRADE AT THE END OF THE DAY, ALLOWING FOR A MAXIMUM OF 10' (FENCE-PROTECTED) TRENCH TO DEMAIN OPEN.
- 8. THE MINIMUM HORIZONTAL AND VERTICAL SEPERATION BETWEEN WATER LINES, SEWER LINES, AND STORM DRAINS SHALL CONFORM TO THE LATEST GEORGIA EPD REQUIREMENTS.
- 9. MAXIMUM JOINT DEFLECTION AND BENDING OF PVC PIPE SHALL NOT EXCEED MANUFACTURER'S SPECIFICATIONS AND INSTALLATION RECOMMENDATIONS.
- 10. AFTER WATERLINE DISINFECTION IS COMPLETED THE CHLORINATED DISINFECTED WATER SHALL NOT BE DISCHARGED INTO THE STORM WATER SYSTEM.
- 11. PVC WATER PIPE SHALL CONFORM TO AWWA C905 PRESSURE CLASS (PC) 235 DR-18. PIPE IS TO BE MANUFACTURED TO DUCTILE IRON PIPE EQUIVALENT OUTSIDE DIAMETERS. PIPE FOR WATER MAINS SHALL BE BLUE IN COLOR WITH EACH LENGTH MARKED WITH NAME OF THE MANUFACTURER, PRESSURE RATING, NOMINAL PIPE DIAMETER AND THE SEAL OF THE NATIONAL SANITATION FOUNDATION (NSF).
- 12. PVC FORCEMAIN PIPE SHALL CONFORM TO AWWA C900 OR C905 PRESSURE CLASS (PC) 235 DR 18. PIPE IS TO BE MANUFACTURED TO DUCTILE IRON PIPE EQUIVALENT OUTSIDE DIAMETERS. PIPE FOR WATER MAINS SHALL BE GREEN IN COLOR WITH EACH LENGTH MARKED WITH NAME OF THE MANUFACTURER, PRESSURE RATING, NOMINAL PIPE DIAMETER AND THE SEAL OF THE NATIONAL SANITATION FOUNDATION (NSF).
- 13. MIN. COVER OF WATERMAIN AND FORCEMAIN SHALL BE 36" IN UNPAVED AREAS AND 42" IN PAVED AREAS. UNLESS OTHERWISE DIRECTED BY JWSC.

SURVEY CONTROL		
	<u>FOUND</u>	<u>SET</u>
CONTROL NAIL	<u></u>	<u>∆</u> NS
IRON PIPE	o ^{IPF}	IPS ●
IRON REBAR	o ^{/RF}	IRS
HUB & TACK	o ^{H∏F}	HTS ●
CONCRETE MONUMENT	<i>CMF</i>	CMS
RIGHT-OF-WAY MARKER	<i>RWMF</i> B	RWM:
BENCHMARK	⊕ ^{BMF}	♦ BMS

FENCE LINE			
	<u>EXISTING</u>	PROPOSED	
CHAIN LINK	o	o	
BARBED WIRE	x	x	
HOG WIRE		×	
WROUGHT IRON			
WOODEN			
SILT FENCE (SINGLE)		—X—	
SILT FENCE (DOUBLE)	—XX—	—XX—	

		$\overline{}$
BUILDING		
	EXISTING	PROPOSED
BUILDING LINE		
BUILDING OVERHANG		
FINISHED FLOOR ELEVATION	♦ 15.00	FF 15.00

GROUND/DITCH			
-	EXISTING	PROPOSED	
SPOT ELEVATION	X12.00	+12.00	
CONTOURS		 12 	
CENTERLINE OF DITCH	—·>—		
WATERS EDGE			

	WATER	
	EXISTING	PROPOSED
WATERMAIN LINE	——— w ———	
BACKFLOW PREVENTER	<i>BFP</i> ⋈	BFP
BLOW-OFF	<i>B0</i> ⊳	BO ▶
FIRE HYDRANT	***	*
HOSE BIBB (SPIGOT)	<i>НВ</i> О	HB ⊕
WELL	@	®
WATER METER	им 0	WM
WATER MANHOLE	₩ ^{MH}	● ^{MH}
WATER VALVE	wv ⊠	₩V

SANITARY SEWER		
	EXISTING	PROPOSED
CLEANOUT	000	● CO
CENTER SANITARY MANHOLE	MH S	
GREASE TRAP	© ©	● ^{GT}
SANITARY SEWER LINE		
FORCEMAIN LINE -		

STORM		
	EXISTING	PROPOSED
PIPES		
DRAINAGE MANHOLE		
FLARED END SECTION		•
INVERT ELEVATION	IE 12.00	IE 12.00
CURB INLET TYPE A	(e)	(0)
CURB INLET TYPE B	(0)	()
CURB INLET TYPE C	(10)	(8)
ROOF INLET		
GRATE INLET		
RIP RAP		333

)]	GAS		
		EXISTING	PROPOSED
	GAS LINE		
	GAS METER	<i>GM</i> 0	GM ∄
	GAS MANHOLE	© ^{MH}	● MH
	GAS VALVE	⋈ ^{GV}	₩ ^{GV}

ELE	CTRIC	
	EXISTING	PROPOSED
POWER POLE	o PP	● PP
GUY POLE	$_{\Phi}$ ^{GP}	⊕ ^{GP}
LIGHT POLE	¢ ^{LP}	≉ LP
GROUND LIGHT	<i>GL</i> ∢	GL €
ELECTRICAL MANHOLE	© (E)	● ^{MH}
ELECTRICAL CONTROL BOX	ECB ⊠	ECB ■
ELECTRICAL SERVICE METER	EM 0	EM
ELECTRICAL TRANSFORMER	TRANS	TRANS
UNDERGROUND POWER CABLE		
OVERHEAD POWER CABLE		

	<u>EXISTING</u>	PROPOSED
TELEPHONE BOOTH	TB	ТВ
TELEPHONE PEDISTAL	<i>TELE PED</i> ⊠	TELE PED
TELEPHONE MANHOLE	① ^{MH}	● ^{MH}
UNDERGROUND TELEPHONE		

ROADWAY			
	EXISTING	PROPOSED	
CENTERLINE OF ROAD			
EDGE OF ASPHALT			
CURB & GUTTER			
EDGE OF CONCRETE			
EDGE OF GRAVEL			
EDGE OF DIRT			
EDGE OF DRIVEWAY			
GUARDRAIL	 .		



 NO.
 REVISION DESCRIPTION
 BY
 DA

 1
 PLAN REVISIONS PER BGJWSC
 TCB
 12-1

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ERING INC. 520

SERVICES,

504 GLOUCESTER STREET
CIVIL BRUNSWICK, GEORGIA 316
RINE FAX: (912) 233-4580
NTAI PRINEWICK (912) 233-4580
NTAI PRINEWICK (912) 233-4580
NTAI PRINEWICK (912) 233-4580

CIVIL MARINE ENVIRONMENTAL ALBANY, ATLANTA

JNTY, GEORGIA or:

IMPROVEMENTS

RUNSWICK, GLYNN COUNTY,
Prepared for:
ICK-GLYNN JOINT WATER AND S

CANAL ROAD

135-91

DESIGNED BY:

135-61

135-61

BRUNSV

PROJECT NO.: 15-5028

DRAWN BY: JCH

DESIGNED BY: KG

SURVEYED BY: EMC

SURVEY DATE: JUNE 2015

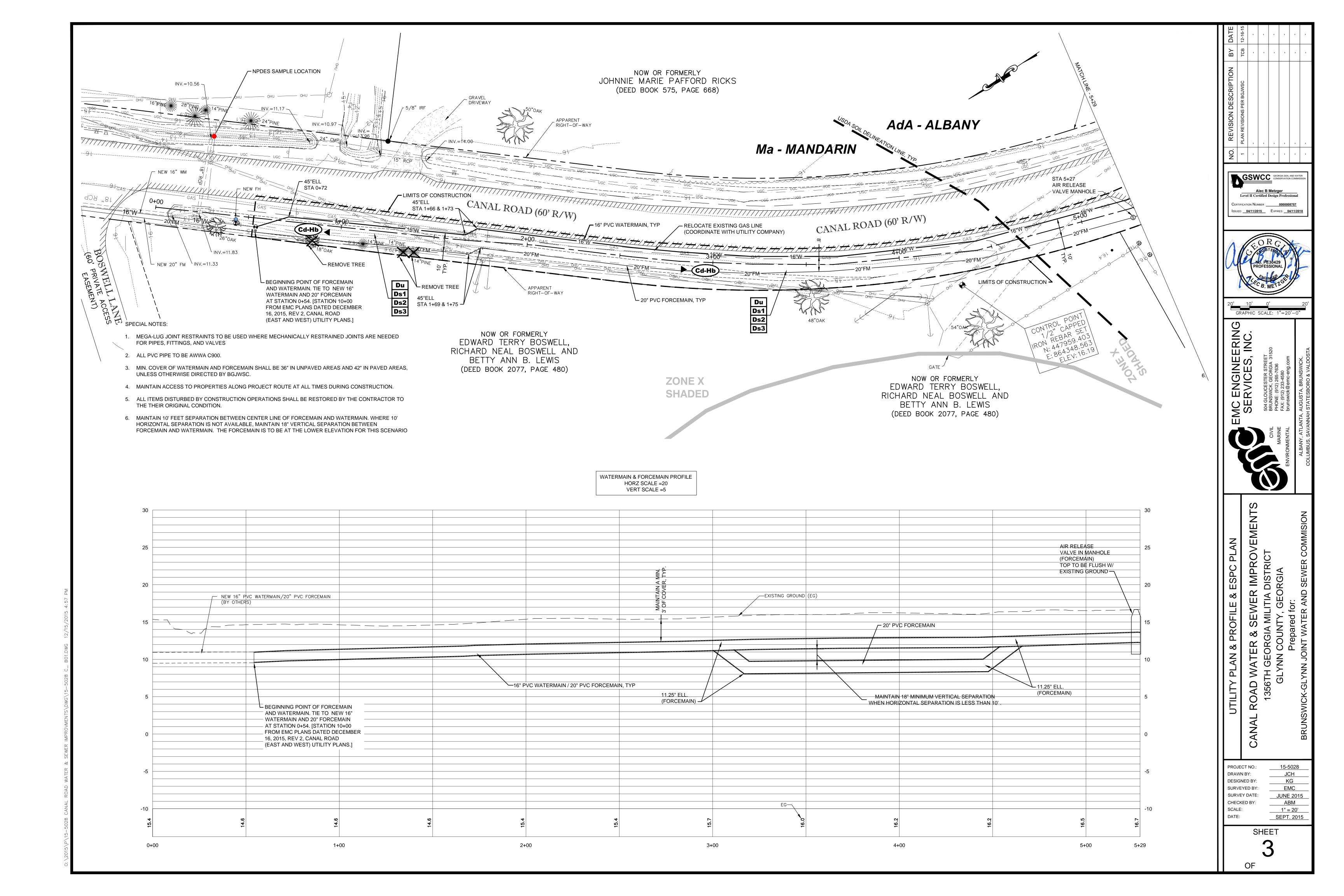
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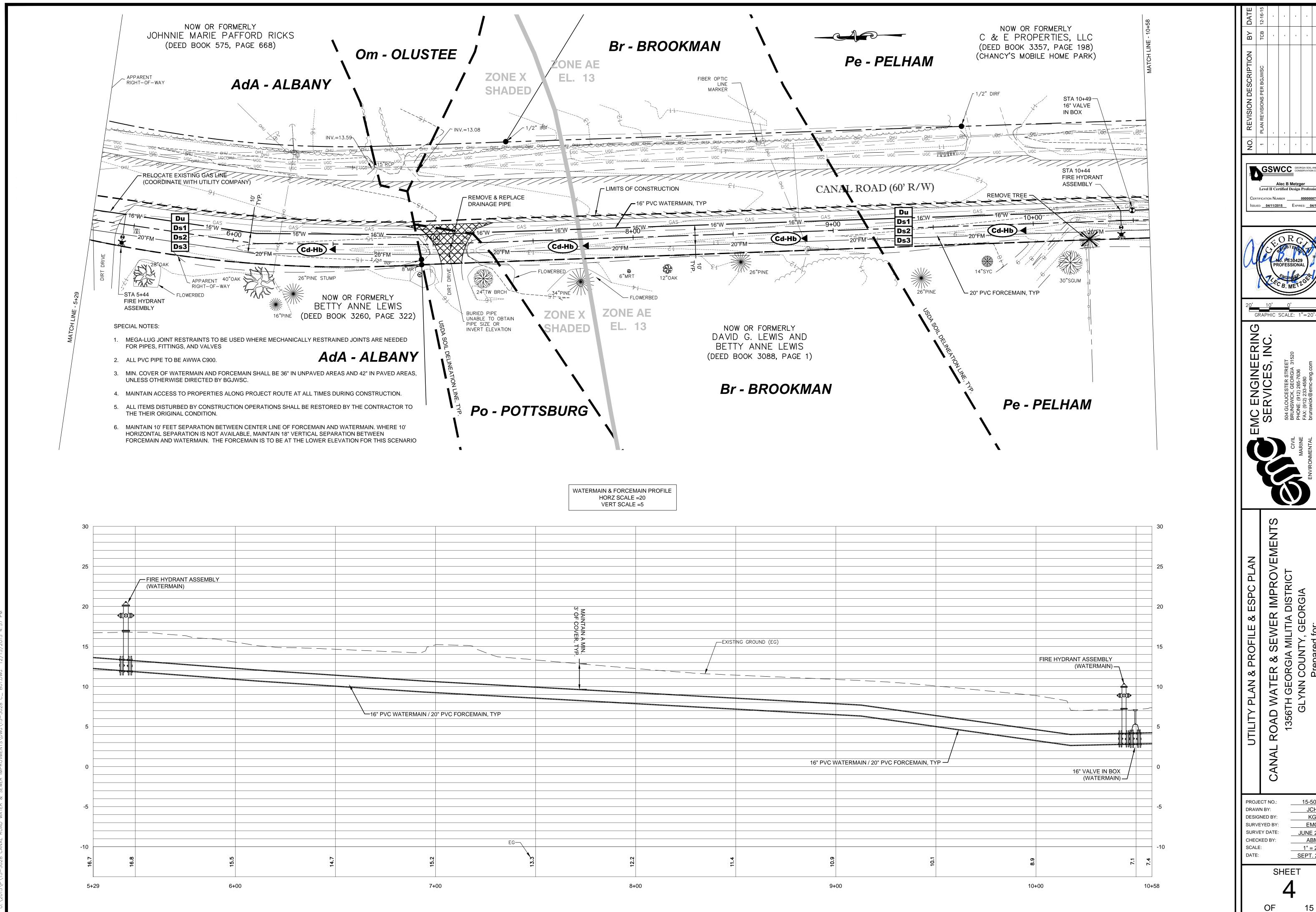
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DATE: SEPT. 2015

SHEET 2

OF



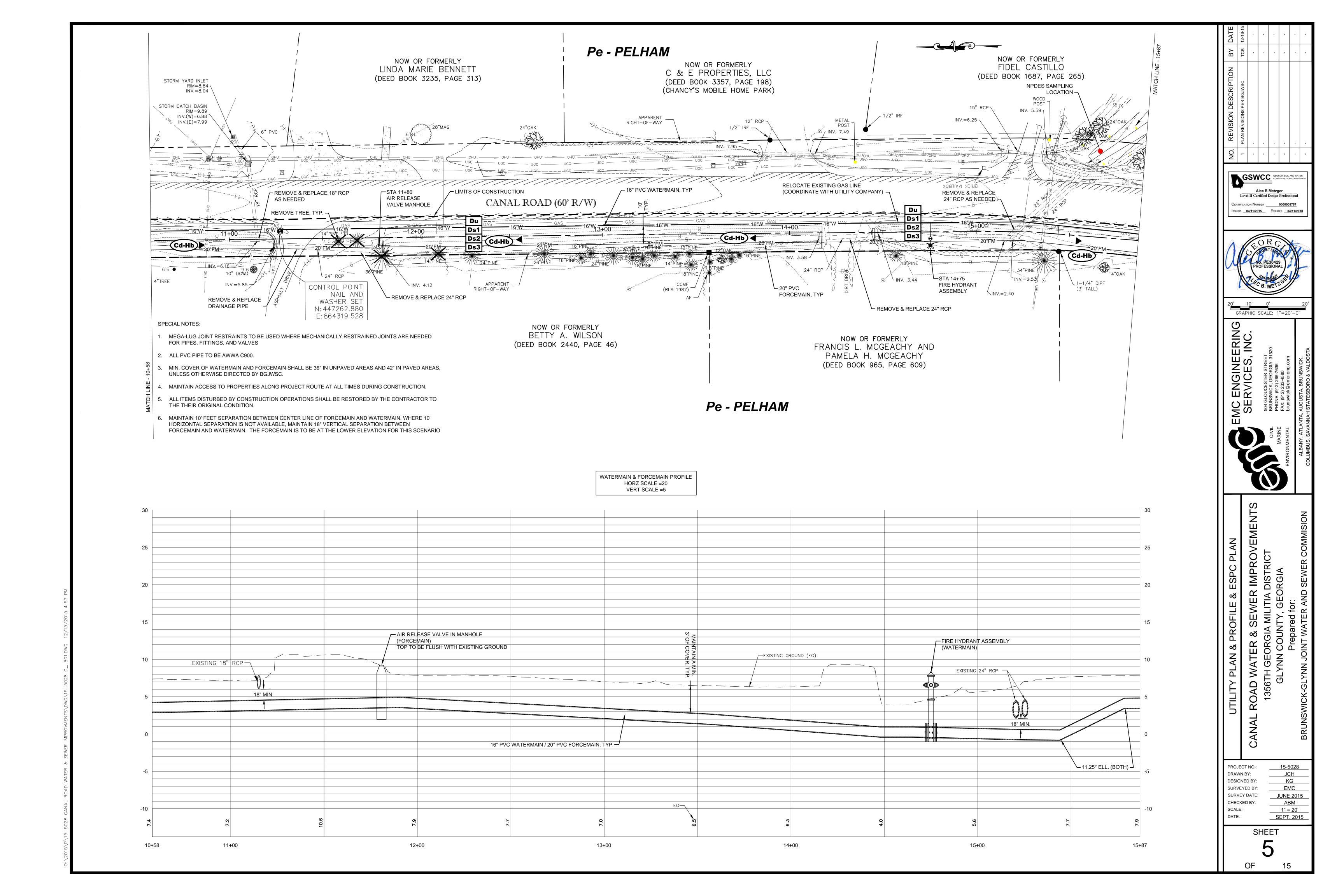


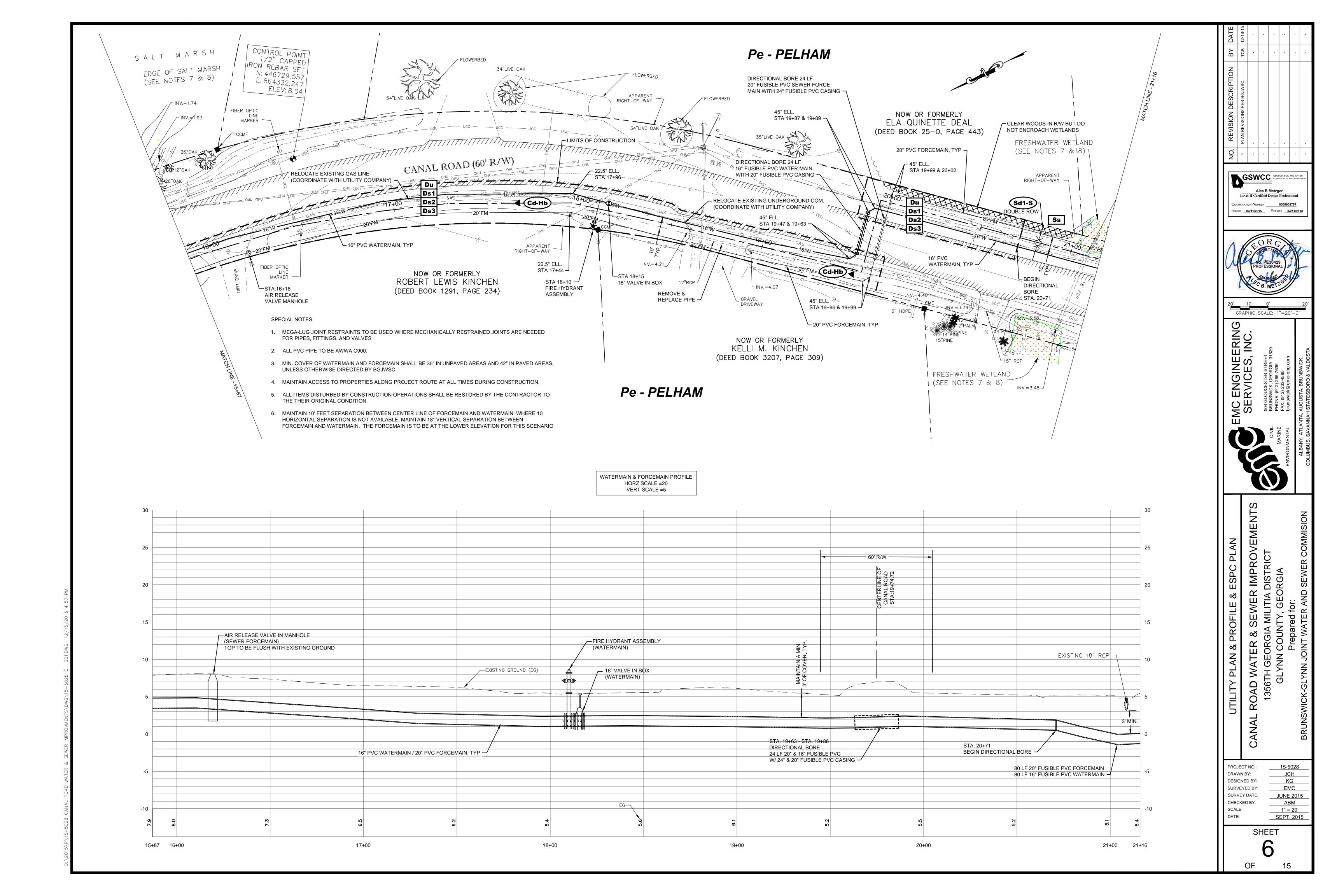
GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION Alec B Metzger
Level II Certified Design Professional ERTIFICATION NUMBER ______000008757 SSUED: <u>04/11/2015</u> EXPIRES: <u>04/11/2018</u>

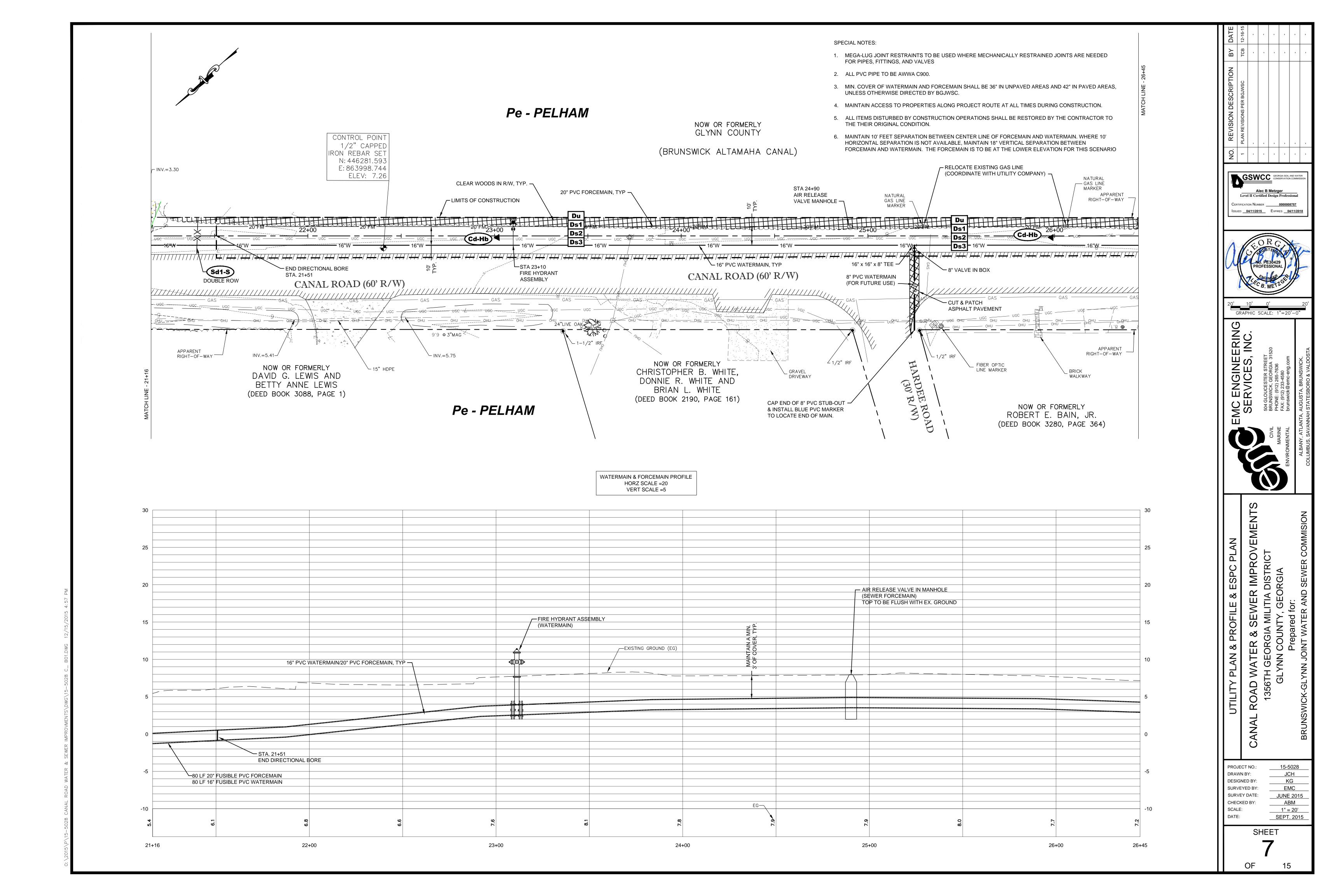


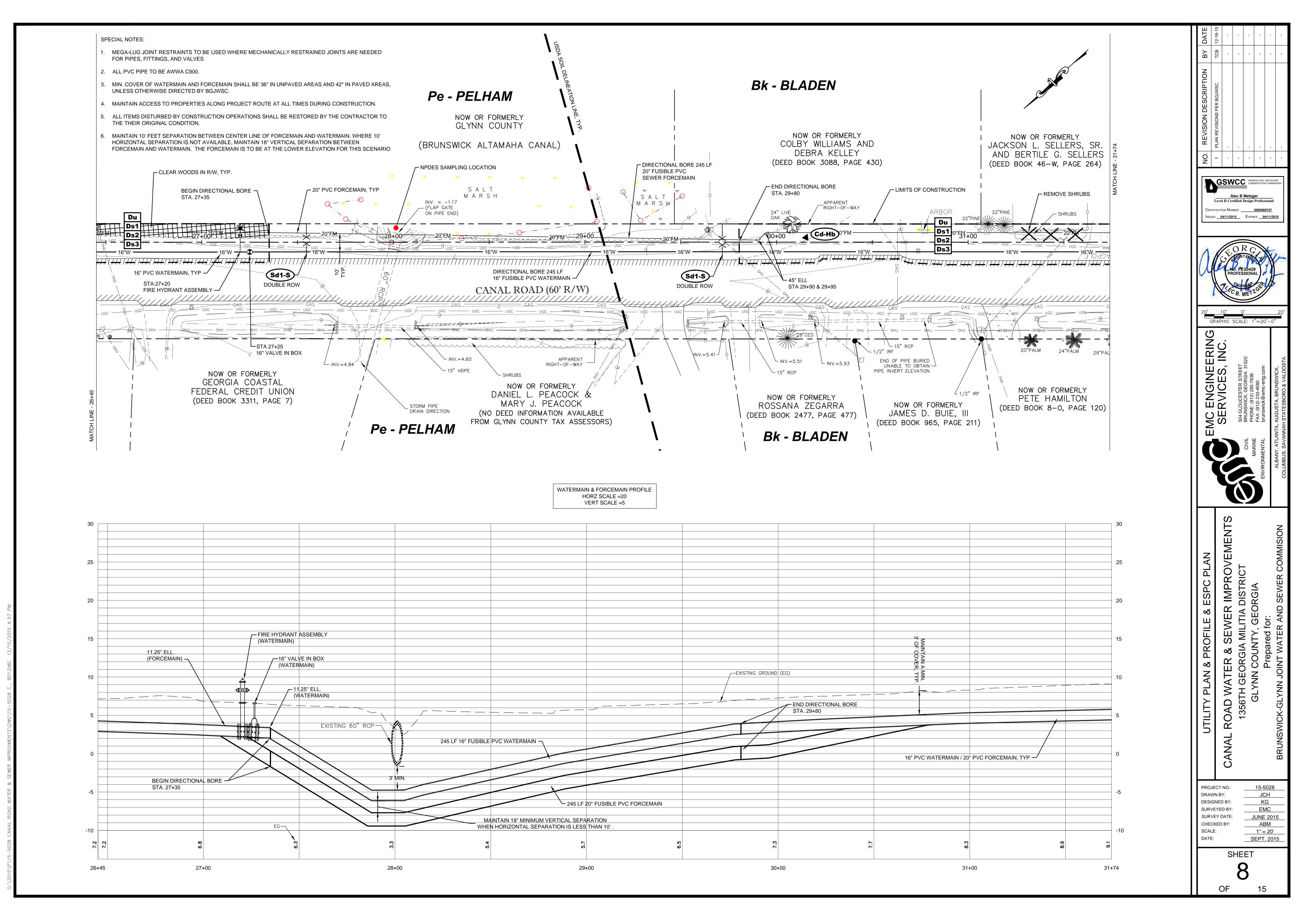
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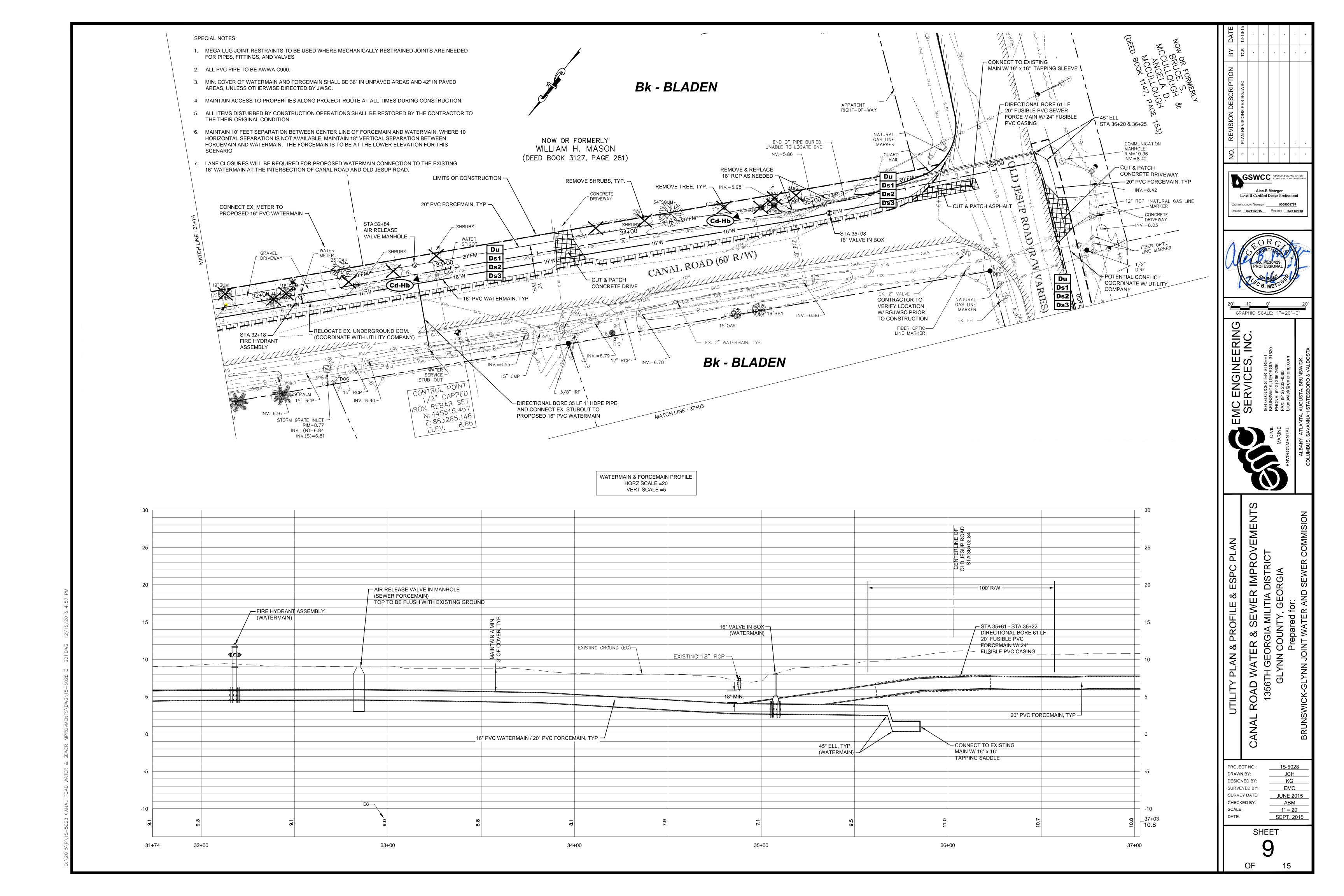
____JCH KG EMC JUNE 2015 ABM 1" = 20' SEPT. 2015

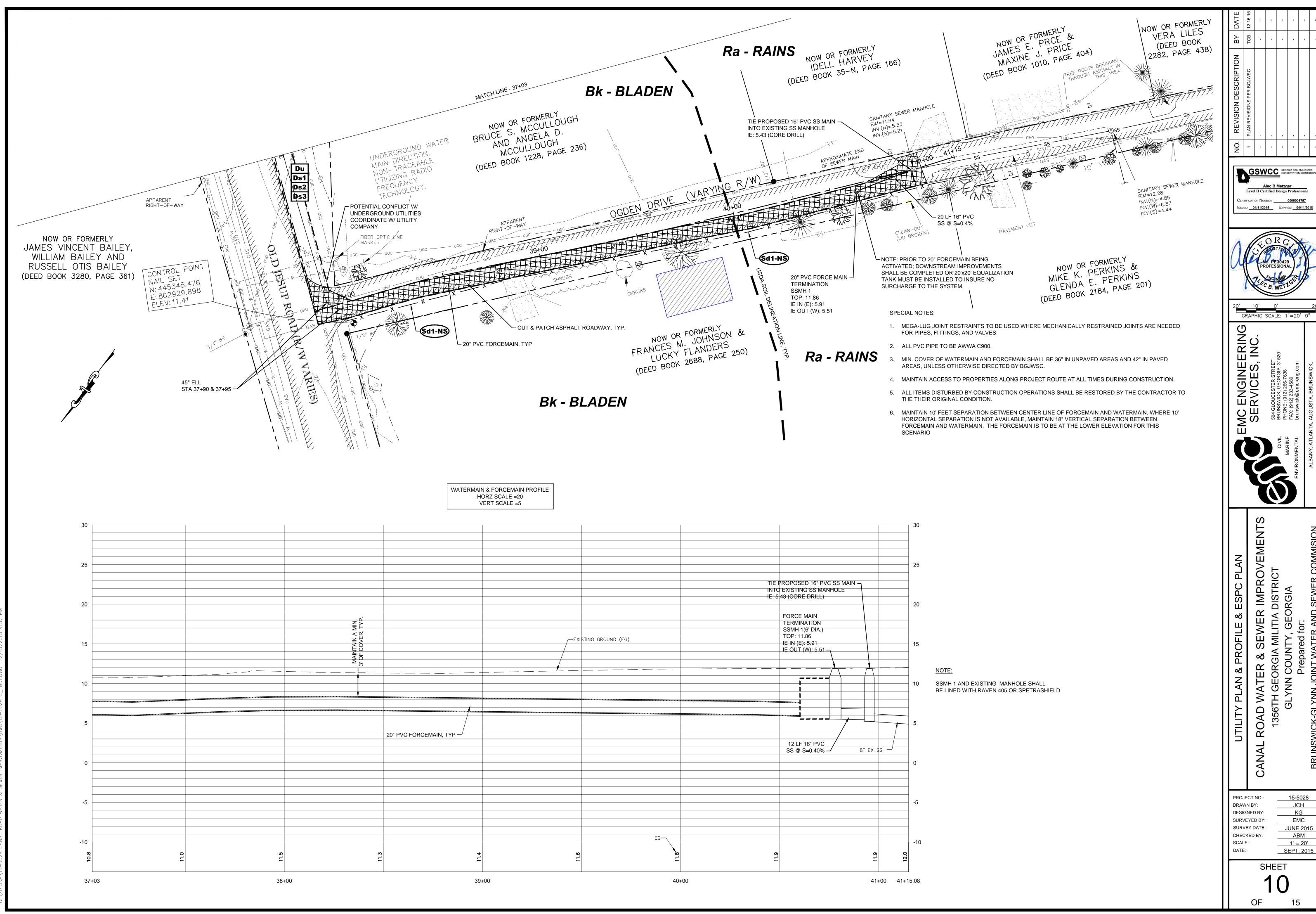












GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION Alec B Metzger
Level II Certified Design Professional DERTIFICATION NUMBER _______0000008757 SSUED: <u>04/11/2015</u> EXPIRES: <u>04/11/2018</u>



GRAPHIC SCALE: 1"=20'-

15-5028 ____JCH KG EMC JUNE 2015 ABM

EAST: VARIOUS PROPERTY OWNERS

SOUTH: VARIOUS PROPERTY OWNERS

WEST: VARIOUS PROPERTY OWNERS

PAGE 11 YES 26. DESCRIPTION OF THE PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES.*

HAZARDOUS WASTE - ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS SORTED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THE ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORM WATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORM WATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORMWATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES: A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE UNITS WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

FERTILIZER/HERBICIDE - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPEC. OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIALS WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

POLLUTION CONTROL PROGRAM: WASTE MATERIAL SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. THE STORM WATER DETENTION FACILITY AND PERMANENT BMPS SHALL HELP PREVENT ANY POLLUTANTS, THAT MAY HAVE DISCHARGED INTO THE STORM DRAINAGE SYSTEM, FROM ESCAPING THE SITE.

WASTE MATERIALS - ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

DESCRIPTION AND CHART OR TIMELINE OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH DISTURB SOILS FOR THE MAJOR PORTIONS OF THE SITE (I.E., INITIAL PERIMETER AND SEDIMENT STORAGE BMPS, CLEARING AND GRUBBING ACTIVITIES, EXCAVATION ACTIVITIES, UTILITY ACTIVITIES, TEMPORARY AND FINAL STABILIZATION).

TENTATIVE ACTIVITY SCHEDULE

		Ι.			Ι.			I				_			
ACTIVITY		\ \ \	ИОМТ	H 1		MON	TH 2		N	MON	ITH 3	3	N	MON	ITH 4
SEDIMENT BARRIER	Sd1)														
CHECK DAM	Cd														
UTILITY WORK															
MULCHING W/ TEMPORA DISTURBED AREA STABI															
PEMANENT DISTURBED AREA STABILIZATION	Ds3														

28. PROVIDE COMPLETE REQUIREMENTS OF INSPECTIONS AND RECORD KEEPING BY THE PRIMARY PERMITTEE.*

INSPECTIONS AND RECORD KEEPING: CONSTRUCTION ACTIVITIES WILL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS, RULES, AND REGULATIONS. CONSTRUCTION SITE MUST BE INSPECTED DAILY, WEEKLY, AND MONTHLY BY CERTIFIED PERSONNEL. RECORDS OF INSPECTIONS MUST BE KEPT IN ACCORDANCE WITH PART IV.D.4.A OF THE GENERAL PERMIT.

PERMITTEE REQUIREMENTS

- A. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKE PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- B. MEASURE RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.
- C. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- D. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
- E. BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH
- F. A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PAR V.G.2. OF THIS PERMIT.

PG. 11-12 YES 29. PROVIDE COMPLETE REQUIREMENTS OF SAMPLING FREQUENCY AND REPORTING OF SAMPLING RESULTS.

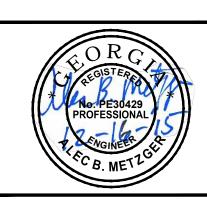
CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THESE MEASURES SHALL INCLUDE RIP RAP OUTLET PROTECTION. THE STORM

SHALL PROVIDE A NON-EROSIVE FLOW SO THAT THE NATURAL PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS OF THE

WATER COURSE ARE MAINTAINED AND PROTECTED (AS SUBJECT TO SECTION 404 OF THE FEDERAL CLEAN WATER ACT).

WATER RELEASED WILL MAINTAIN PRE-DEVELOPMENT RUN-OFF RATES AS WELL AS FLOW PATTERNS. RIP RAP, LOCATED AT ALL OUTFALLS,

THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE. HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THE GENERAL PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.



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PROJECT NO .:

DESIGNED BY:

SURVEYED BY:

SURVEY DATE:

CHECKED BY:

SCALE:

DATE:

DRAWN BY:

IMPROVI DISTRICT RGIA

15-5028 <u>JCH</u> KG EMC JUNE 2015 ABM N/A

SEPT. 2015

REQUIRED SEDIMENT STORAGE = 67 CY/AC * 1.50 AC REQUIRED SEDIMENT STORAGE = $\underline{100.5}$ CY = $\underline{2,714}$ CF

ASSUME SEDIMENT DEPTH OF 9" AGAINST SILT FENCE DETERMINE REQUIRED SURFACE AREA

SAmin = REQUIRED SEDIMENT STORAGE/ SEDIMENT DEPTH

SAmin = 2,714 CF/ 0.75 FT SAmin = 3,619 SF

LENGTH OF SILT FENCE (L) = 393'DEPTH OF SEDIMENT (D) = 0.75°

WIDTH OF SEDIMENT STORAGE AREA (W) = 6.4'

SAMPLING POINTS

(1). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR ALL OUTFALLS INTO SUCH STREAMS AND OTHER WATER BODIES, OR A COMBINATION THEREOF. HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART IV.D.6.c.(2). OF THIS PERMIT. PRIMARY PERMITTEES ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE PERENNIAL AND INTERMITTENT STREAMS, OTHER WATER BODIES OR OUTFALLS, OR A COMBINATION THEREOF. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

(4.) MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD

BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM

AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION,

UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC

SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR

RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES

MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE

(5.) SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN

THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR

THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE

IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING

CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE

PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION). FOR INFRASTRUCTURE CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL OR SILVICULTURAL PURPOSES, FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR SILVICUTURAL USE.

ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3 OR III.D.4,

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES

STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) OF THE OUTFALL LOCATION. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 75, THE VALUE THAT WAS SELECTED FROM APPENDIX B IN GENERAL PERMIT. THE NTU IS BASED UPON THE DISTURBED ACREAGE OF 1.50 ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF 0.10-SQUARE MILES FOR THE DRAINAGE BASIN, AND THE RECEIVING WATER UNNAMED TRIBUTARY TO THE BRUNSWICK RIVER, WHICH SUPPORTS WARM WATER

DELINEATE ALL SAMPLING LOCATIONS, PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES INTO WHICH STORM

A DESCRIPTION OF APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE INCLUDING: (1) INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS, (2) INTERMEDIATE GRADING AND DRAINAGE BMPS, AND (3) FINAL BMPS. FOR CONSTRUCTION SITES WHERE THERE WILL BE NO MASS GRADING AND THE INITIAL PERIMETER CONTROL BMPS, INTERMEDIATE GRADING AND DRAINAGE BMPS, AND FINAL BMPS ARE THE SAME, THE PLAN MAY COMBINE ALL OF THE BMPS INTO A

36. EXISTING AND PROPOSED CONTOUR LINES WITH CONTOUR LINES DRAWN AT AN INTERVAL IN ACCORDANCE WITH THE FOLLOWING:

USE OF ALTERNATIVE BMPS WHOSE PERFORMANCE HAS BEEN DOCUMENTED TO BE EQUIVALENT TO OR SUPERIOR TO CONVENTIONAL BMPS AS CERTIFIED BY A DESIGN PROFESSIONAL (UNLESS DISAPPROVED BY EPD OR THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION). PLEASE REFER TO THE ALTERNATIVE BMP GUIDANCE DOCUMENT FOUND AT WWW.GASWCC.ORG.

DELINEATION OF THE APPLICABLE 25-FOOT OR 50-FOOT UNDISTURBED BUFFERS ADJACENT TO STATE WATERS AND ANY ADDITIONAL BUFFERS REQUIRED BY THE LOCAL ISSUING AUTHORITY. CLEARLY NOTE AND DELINEATE ALL AREAS OF IMPACT.

ALL STATE WATERS ON OR WITHIN 200 FEET FROM THE PROJECT SITE MUST BE DELINEATED ON ALL PHASES OF THE PLAN. ALL

AN ESTIMATE OF THE PRE-DEVELOPMENT RUNOFF COEFFICIENT OR PEAK DISCHARGE FLOW OF THE POST DEVELOPMENT SITE PRIOR

RETROFITTED DETENTION POND, AND/OR EXCAVATED INLET SEDIMENT TRAPS FOR EACH COMMON DRAINAGE LOCATION. SEDIMENT STORAGE VOLUME MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBANCE ACTIVITIES UNTIL FINAL STABILIZATION OF THE SITE HAS BEEN ACHIEVED. A WRITTEN JUSTIFICATION EXPLAINING THE DECISION TO USE EQUIVALENT CONTROLS WHEN A SEDIMENT BASIN IS NOT ATTAINABLE MUST BE INCLUDED IN THE PLAN FOR EACH COMMON DRAINAGE LOCATION IN WHICH A SEDIMENT BASIN IS NOT PROVIDED. A WRITTEN JUSTIFICATION AS TO WHY 67 CUBIC YARDS OF STORAGE IS NOT ATTAINABLE MUST ALSO BE GIVEN. WORKSHEETS FROM THE MANUAL MUST BE INCLUDED FOR STRUCTURAL BMPS AND ALL CALCULATIONS USED BY THE DESIGN

BASIN IS 1.50-ACRES. THE REQUIRED SEDIMENT STORAGE VOLUME FOR THIS ACREAGE IS 67

DETERMINE IF ADEQUATE SEDIMENT STORAGE AREA ALONG SILT FENCE IS POSSIBLE

 $L \times D \times W = 1,886 \text{ CF}$

69 CY OF SEDIMENT STORAGE IS AVAILABLE IN THE SILT FENCE.

LOCATION OF BEST MANAGEMENT PRACTICES THAT ARE CONSISTENT WITH, AND NO LESS STRINGENT THAN, THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. USE UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6, WITH

VEGETATIVE MEASURES AND STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
				A small temporary barrier or dam constructed
Cd	CHECKDAM			across a swale, drainage ditch or area of concentrated flow.
Sd1)	SEDIMENT BARRIER		(INDICATE TYPE)	A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	1	Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.

PG 13-15 YES

48. PROVIDE DETAILED DRAWINGS FOR ALL STRUCTURAL PRACTICES. SPECIFICATIONS MUST, AT A MINIMUM, MEET THE GUIDELINES SET FORTH IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.

PAGE 12 YES

PROVIDE VEGETATIVE PLAN, NOTING ALL TEMPORARY AND PERMANENT VEGETATIVE PRACTICES. INCLUDE SPECIES, PLANTING DATES AND SEEDING. FERTILIZER, LIME AND MULCHING RATES. VEGETATIVE PLAN SHALL BE SITE SPECIFIC FOR APPROPRIATE TIME OF YEAR THAT SEEDING WILL TAKE PLACE AND FOR THE APPROPRIATE GEOGRAPHIC REGION OF GEORGIA.

TEMPORARY AND PERMANENT SEEDING SCHEDULE

	SEEDING	RATES FO	OR TEMP	ORARY & PERMANE	NT COVER		
		RATE PE	R ACRE		RATE PER ACRE		
MONTH	TEMPORARY COVER	SEEDED ALONE	ADDED TO MIX	PERMANENT COVER	SEEDED ALONE	ADDED TO MIX	
JANUARY	RYEGRASS	40 LBS	-	UNHULLED BERMUDA	10 LBS	6 LBS	
	RYE	3 BU	0.5 BU	SERLCEA LESPEDEZA (1)	75 LBS	_	
FEBRUARY	ANNUAL LESPEDEZA	40 LBS	10 LBS	UNHULLED BERMUDA	10 LBS	6 LBS	
	RYEGRASS	40 LBS	_	SERLCEA LESPEDEZA (1)	75 LBS	_	
	RYE	3 BU	0.5 BU				
MARCH	WEEPING LOVEGRASS	4 LBS	2 LBS	PENSACOLA BAHIA	60 LBS	30 LBS	
	ANNUAL LESPEDEZA	40 LBS	10 LBS	HULLED BERMUDA	10 LBS	6 LBS	
				SERLCEA LESPEDEZA (2)	60 LBS	_	
APRIL	WEEPING LOVEGRASS	4 LBS	2 LBS	PENSACOLA BAHIA	60 LBS	30 LBS	
	SUDON GRASS	60 LBS	-	WEEPING LOVEGRASS	6 LBS	6 LBS	
	BROWN TOP MILLET	40 LBS	10 LBS	HULLED BERMUDA	10 LBS	6 LBS	
MAY	WEEPING LOVEGRASS	4 LBS	2 LBS	PENSACOLA BAHIA	60 LBS	30 LBS	
	SUDON GRASS	60 LBS	-	WEEPING LOVEGRASS	6 LBS	6 LBS	
	BROWN TOP MILLET	40 LBS	10 LBS	HULLED BERMUDA	10 LBS	6 LBS	
	PEARL MILLET	50 LBS	_	SERLCEA LESPEDEZA (2)	60 LBS	_	
JUNE	PEARL MILLET	50 LBS	_	PENSACOLA BAHIA	60 LBS	30 LBS	
	SUDON GRASS	60 LBS	_	HULLED BERMUDA	10 LBS	6 LBS	
	BROWN TOP MILLET	40 LBS	10 LBS				
JULY	PEARL MILLET	50 LBS	_	PENSACOLA BAHIA	60 LBS	30 LBS	
	SUDON GRASS	60 LBS	_				
	BROWN TOP MILLET	40 LBS	10 LBS				
AUGUST	PEARL MILLET	50 LBS	_	PENSACOLA BAHIA	60 LBS	30 LBS	
	RYE	3 BU	0.5 BU				
SEPTEMBER	RYEGRASS	40 LBS	_	SERLCEA LESPEDEZA (1)	75 LBS	_	
	OATS	4 BU	1 BU				
	WHEAT	3 BU	0.5 BU				
OCTOBER	WHEAT	3 BU	0.5 BU	SERLCEA LESPEDEZA (1)	75 LBS	_	
	RYEGRASS	40 LBS	_				
	RYE	3 BU	0.5 BU				
	BARLEY	3 BU	0.5 BU				
	OATS	4 BU	1 BU				
NOVEMBER	SAME AS OCTOBER		. = -	UNHULLED BERMUDA	10 LBS	6 LBS	
DECEMBER	SAME AS OCTOBER			UNHULLED BERMUDA	10 LBS	6 LBS	

1. UNSCARIFIED

2. SCARIFIED 3. CENTIPEDE SOD CAN BE USED AS PERMANENT COVER

4. LISTED IN THE ORDER OF PREFERENCE. 5. ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED.

ANYTIME EXCEPT JUNE THRU OCTOBER.

RATE OF 35 POUNDS PER 1,000 SQUARE FEET, RAKING LIGHTLY INTO THE SOIL APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. THE AGRICULTURAL LIME SHALL MEET THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT

FERTILIZING - APPLY 6-12-12 FERTILIZER AT THE

OF AGRICULTURE. DRY STAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE AND DRY HAY SHALL BE APPLIED

AT A RATE OF 2.5 TONS PER ACRE. WATER IMMEDIATLEY AFTER MULCHING.

HAY BALE CHECK DAM STORAGE CALCULATION

1. DISTURBED AREA = 1.50 AC

REQUIRED SEDIMENT STORAGE = 67 CY/AC * DISTURBED AREA REQUIRED SEDIMENT STORAGE = 67 CY/AC * 1.50 AC REQUIRED SEDIMENT STORAGE = 100.5 CY = 2,714 CF

SEDIMENT TRAPPED BY SILT FENCE = 69 CY REMAINDER OF SEDIMENT TO BE STORED = 100.5 - 69 = 31.5 CY

⊾GSWCC ⁸ Level II Certified Design Professiona SUED: <u>04/11/2015</u> EXPIRES: <u>04/11/2018</u>



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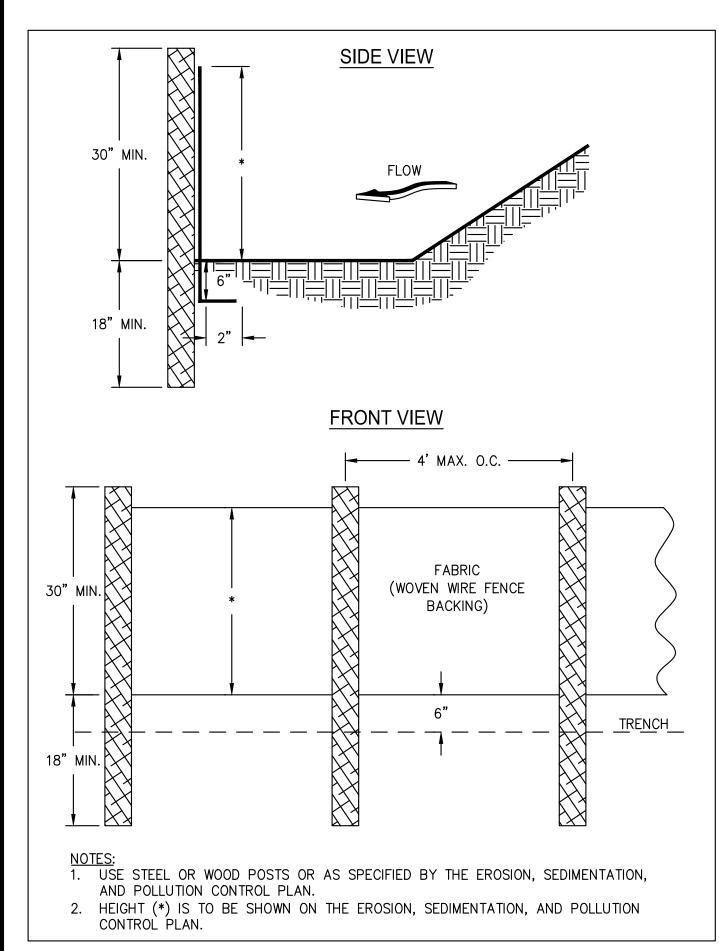
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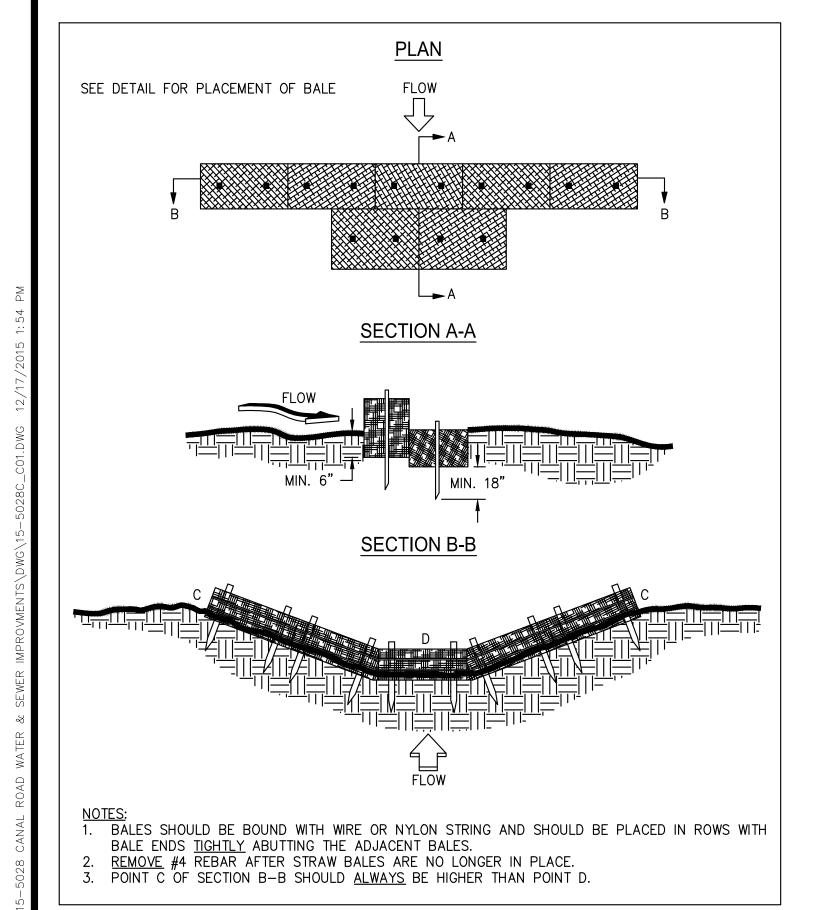
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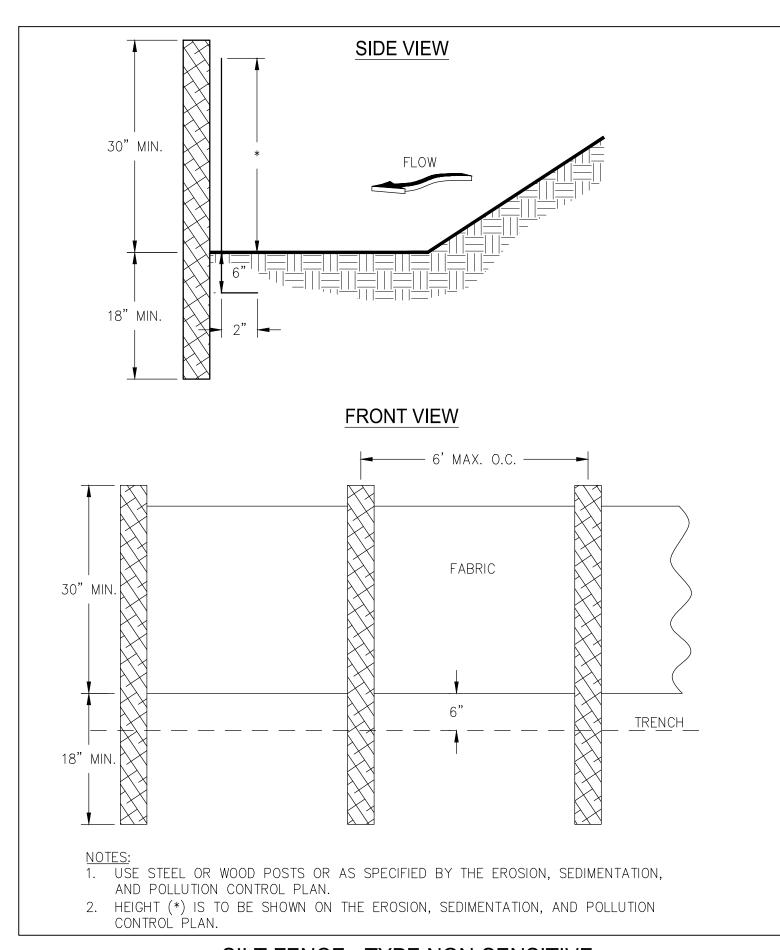
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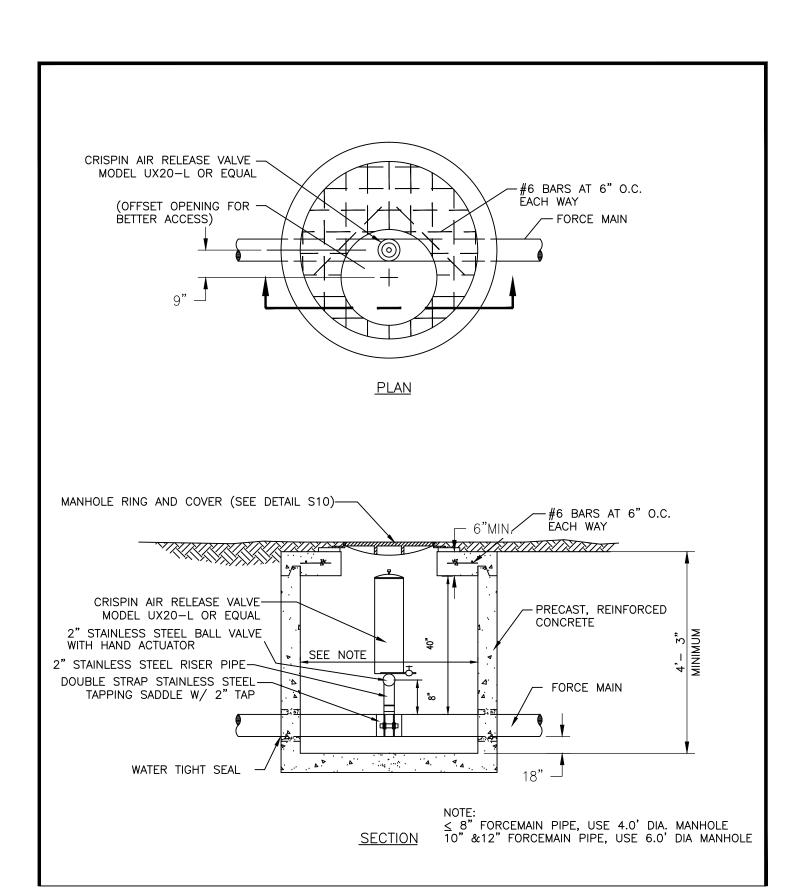
SILT FENCE - TYPE SENSITIVE SCALE: NTS



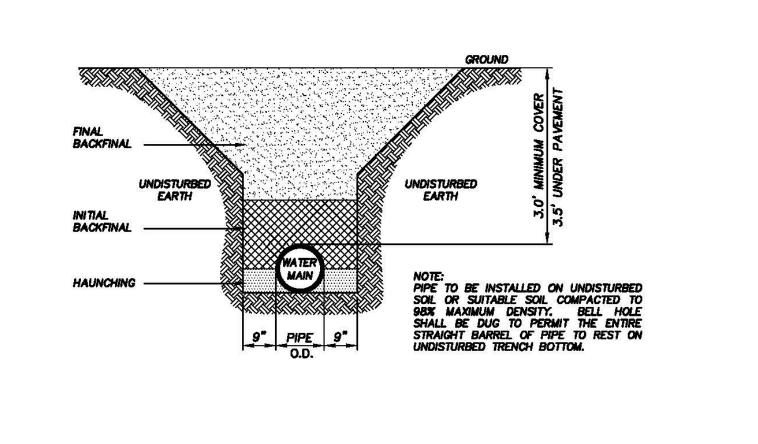
TYPICAL HAY BALE CHECK DAM SCALE: NTS



SILT FENCE - TYPE NON-SENSITIVE



2" AIR RELEASE VALVE AND MANHOLE



NOT TO SCALE

BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION 700 Gloucester Street, Suite 300 Phone: (912) 261-7110 Brunswick, Georgia 31520 Fax: (912) 261-7178 Website: www.bgjwsc.org

PRESSURE PIPE TRENCH DETAIL

JWSC STANDARD DETAIL 2-1

GSWCC SE ERTIFICATION NUMBER ISSUED: <u>04/11/2015</u> EXPIRES: <u>04/11/2018</u>

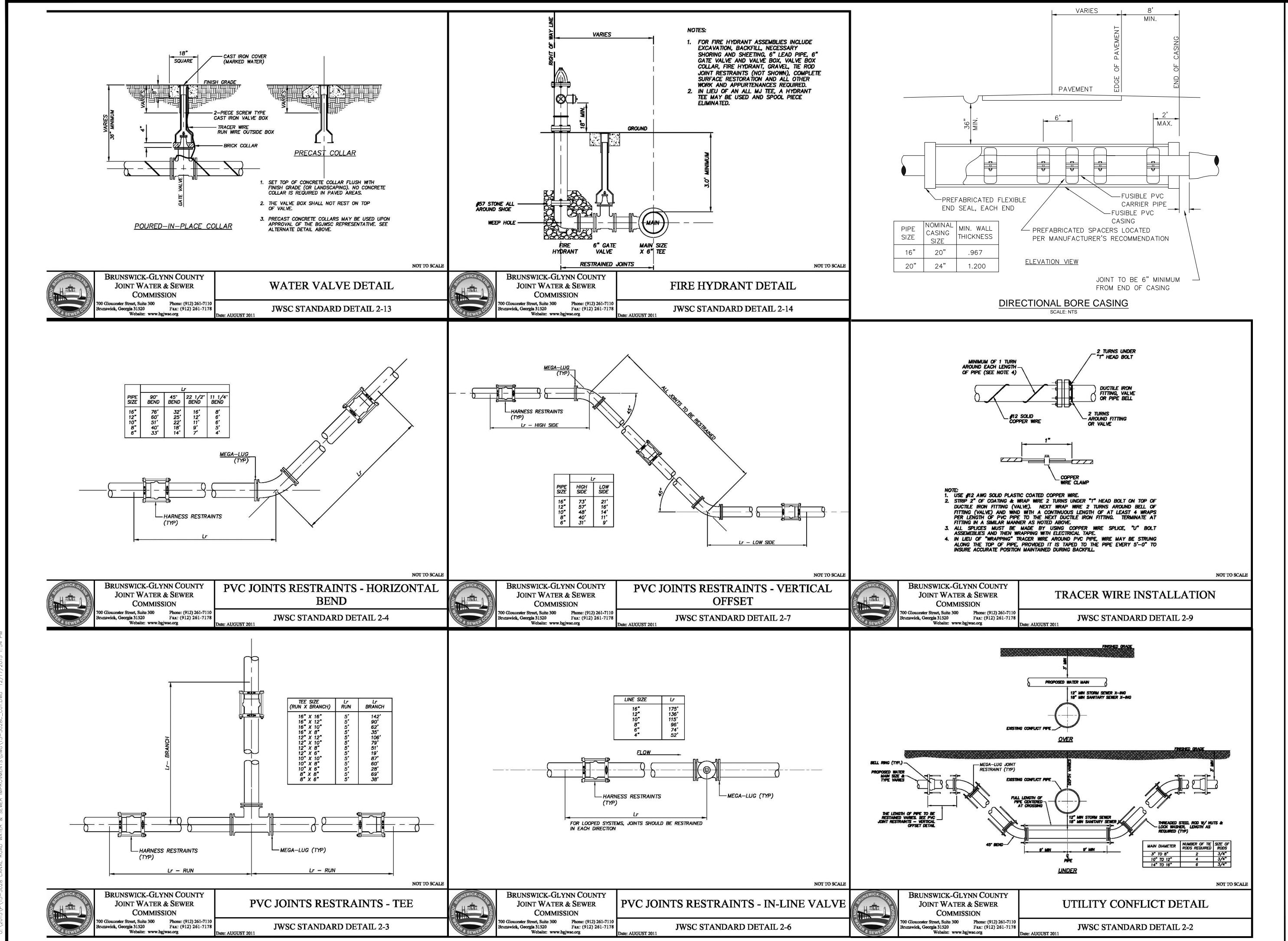


& SEWER IMPROVEMENTS
IA MILITIA DISTRICT
JNTY, GEORGIA

____15-5028 PROJECT NO.: JCH DRAWN BY: DESIGNED BY: KG SURVEYED BY: EMC SURVEY DATE: JUNE 2015 ABM CHECKED BY: N/A SCALE:

SEPT. 2015

DATE:



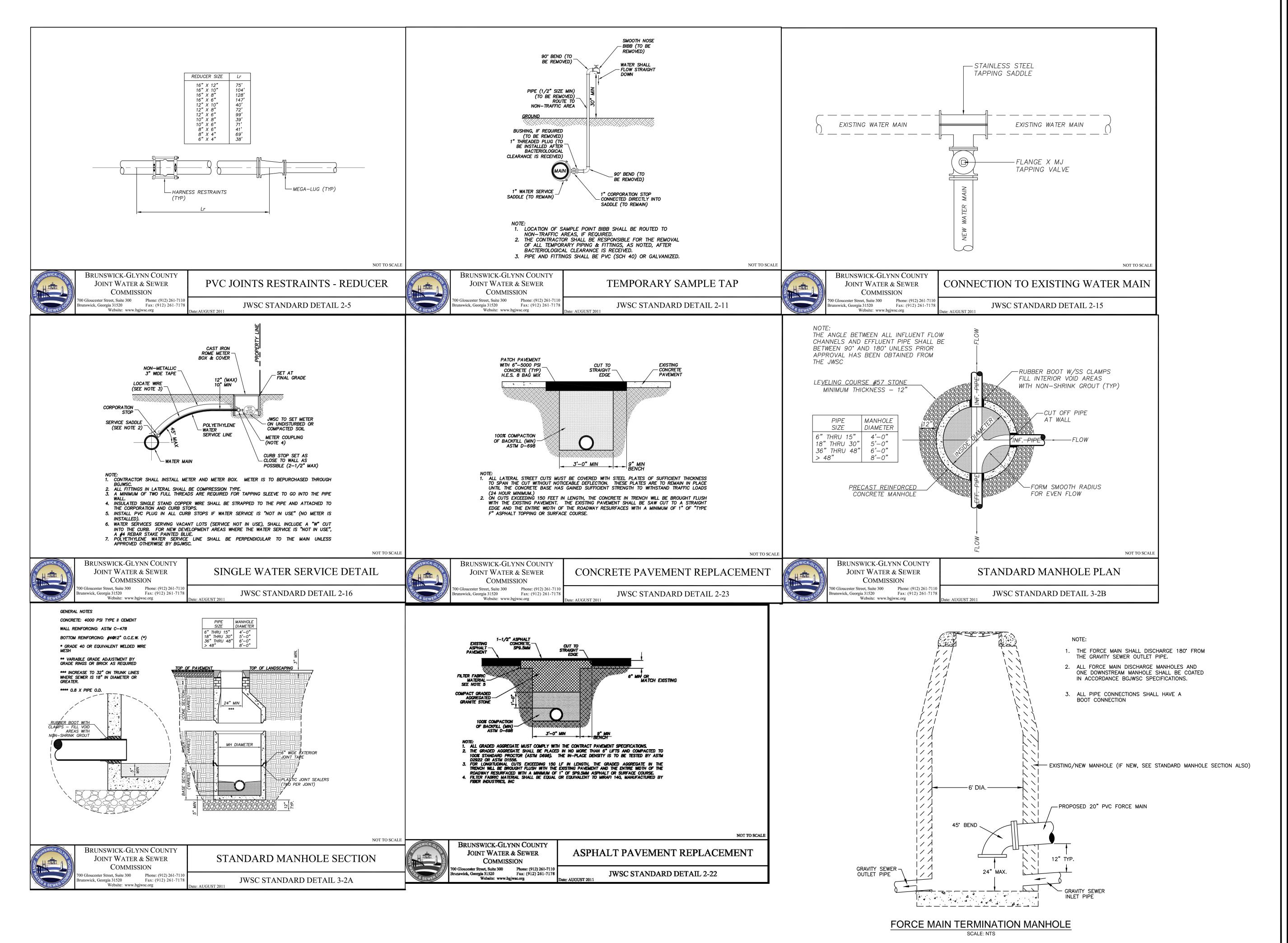


ERING INC.

R IMPROVEMENTS DISTRICT

15-5028 JCH KG EMC JUNE 2015 ABM

PROJECT NO .: DRAWN BY: DESIGNED BY: SURVEYED BY: SURVEY DATE: CHECKED BY: ____N/A SCALE: DATE: SEPT. 2015



ERING INC.

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IA MILITIA DISTRICT
JNTY, GEORGIA

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PROJECT NO .: 15-5028 DRAWN BY: ____JCH DESIGNED BY: KG EMC SURVEYED BY: SURVEY DATE: JUNE 2015 ABM CHECKED BY: SCALE: N/A

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