
SUPPLEMENTAL INFORMATION ADDENDUM NO. 1

 PROJECT:
 ITB No 17-002 - Old Augusta Rd - Water Sewer Extension Construction

 CONTACT:
 Fiona Charleton, Purchasing Agent

 912-754-2159 fcharleton@effinghamcounty.org

DATE ISSUED: September 12,, 2016

ITB No. 17-002 dated August 15, 2016 is hereby amended as noted herein : BIDDER TO ACKNOWLEDGE RECEIPT OF ADDENDUM BY SIGNING ON THE SIGNATURE LINE BELOW AND INCLUDING A COPY WITH SUBMITTED BID. FAILURE TO DO SO MAY, AT THE OWNER'S DISCRETION, SUBJECT THE BIDDER TO DISQUALIFICATION

- <u>QUESTION</u>: Is it required that we buy the plans from the county or the engineer in order to be able to bid on the project?
 <u>ANSWER</u>: There is no charge for the plans –they are located on our website together with the ITB <u>https://vrapp.vendorregistry.com/Bids/View/Bid/56e0818e-ea33-4179-b37f cc6aa3866e33</u>
- 2) <u>QUESTION:</u> Is there a pre bid meeting? <u>ANSWER:</u> No, there is no pre bid meeting.
- QUESTION: We are coming up with different quantities on the FPVC please confirm or clarify 3) the schedule of value quantity: 16in: 50ft under gas line and 818ft under wetlands 8in: 50ft under gas line and 818ft under wetlands 12in: casing of 90ft with 8 in carrier ANSWER: 16in Water: 120ft under gas line 818ft under wetlands 8in FM: 120ft under gas line 818ft under wetlands 90ft under Old Augusta Road 12in Casing: 90ft under Old Augusta Road

Please note that 1" HDPE – HDD has been removed from the bid schedule.

Please **REPLACE** Article 5 – BASIS OF BID table on pages 01250-3 and 01250-4 and Article 5 – CONTRACT PRICE table on pages 01350-2 and 01350-3 with the revised bid schedule included below.

Please note that the Final Signed Construction Plans have been included below and also be found on the county website as a separate document:

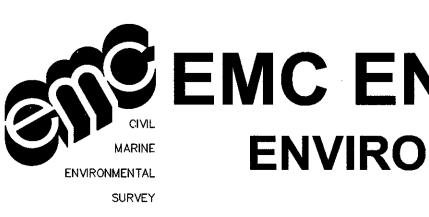
https://vrapp.vendorregistry.com/Bids/View/BidsList?BuyerId=4e9bf0f9-3ffd-4b71-9e5e-334287e596e8

Addendum No.1 - ITB No 17-002 - Old Augusta Rd - Water Sewer Extension - Construction REVISED BID SCHEDULE 09-12-16

tem	Description	Est. Qty.	Unit	Unit Price	Total Price
ECTION I	- GENERAL				
1	Mobilization	JOB	LS		
2	Traffic Control	JOB	LS		
3	Bonding, Misc.	JOB	LS		
4	Clearing and Grubbing	0.5	AC		
5	Cut & Patch Drives, Remove & Replace misc. items	JOB	LS		
6	Remove Unsuitable Material	90	CY		
7	Stone Bedding	90	CY		
8	Select Backfill	700	CY		
				SUBTOTAL	
ECTION I	I - EROSION AND SEDIMENTATION CONTROL				
1	Silt Fence - Sensitive	2,130	LF		
2	Silt Fence - Non Sensitive	8,880	LF		
3	Haybale Check Dam	25	EA		
4	Permanent Grassing / Mulching	24,000	SY		
				SUBTOTAL	
ECTION I	III - WATER DISTRIBUTION SYSTEM				
1	1" HDPE Water Service Lateral - Direct Bury	110	LF		
2	1" Valve in Box	1	EA		
3	1" RPZ Backflow Preventer	1	EA		
4	8" PVC Watermain	85	LF		
5	8" FPVC Watermain w/ Spacers in Existing Steel Casing	150	LF		
6	8" Valve in Box	2	EA		
7	16" FPVC Watermain - Horizontal Directional Drill	940	LF		
8	16" FPVC Watermain w/ Spacers in Existing Steel Casing	65	LF		
9	16" PVC Watermain	6,530	LF		
10	16" Valve in Box	10	EA		
11	Connect to Existing 16" Watermain	JOB	LS		
12	Fire Hydrant Assembly	8	EA		
13	Watermain Markers	16	EA		
10	Watermain Walkers	10		SUBTOTAL	
				OODICIAL	
ECTION	V - SANITARY SEWER SYSTEM				
1	10" DI SS Gravity Main (6'-12') w/ Lock Joints & Spacers	50	LF		
2	10" DI SS Gravity Main (6-12) w/ Lock Joints & Spacers	60	LF		
3	Jack and Bore 20" Steel Casing	110	LF		
	, i i i i i i i i i i i i i i i i i i i	+ +			
4	10" PVC SS Gravity Main (6'-12')	690		┨────┤	
5	10" PVC SS Gravity Main (12'-18')	1,940		┨────┤	
6	4' Dia - Precast SS Manhole (6'-12')	4	EA	╂────┤	
7	4' Dia - Precast SS Manhole (12'-18')	11	EA	┨────┤	
8	Forcemain Termination Manhole	1	EA		
9	Air Release Valve in Manhole	4	EA	┨────┤	
10	8" PVC SS Forcemain	1,880		┨────┤	
11	8" PVC SS Forcemain - Horizontal Directional Drill	1,030	LF	┨────┤	
12	12" FPVC Casing - Horizontal Directional Drill	90	LF	┦───┤	
13	Pump Station Complete	JOB	LS	ļ	
14	Forcemain Markers	8	EA		
				SUBTOTAL	

CONSTRUCTION PLANS FOR **OLD AUGUSTA ROAD UTILITY EXTENSION** EFFINGHAM COUNTY, GEORGIA

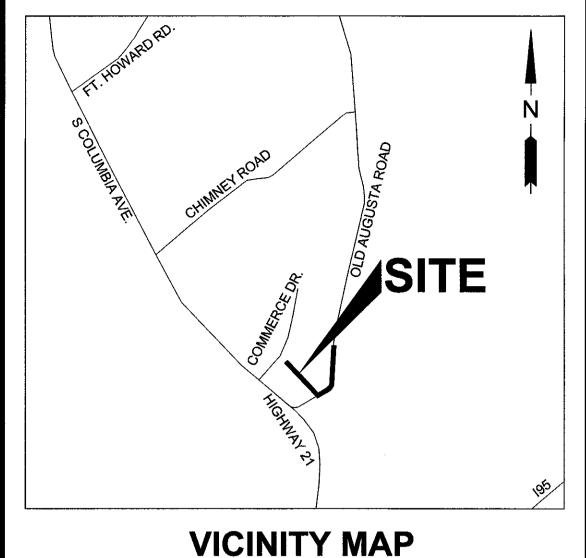
DEVELOPER/RESPONSIBLE PARTY: EFFINGHAM COUNTY BOARD OF COMMISSIONERS 601 NORTH LAUREL STREET SPRINGFIELD, GA, 31329 **PHONE#: 912-754-2123**



MAY 2016

EMC PROJECT NO. 16-0004

SEMC ENGINEERING SERVICES, INC. **ENVIRONMENTAL - MARINE - CIVIL - SURVEY**



NOT TO SCALE

INDEX OF DRAWINGS

SHT NO.	DESCRIPTION
1	COVER
2	GENERAL NOTES & LEGEND
3	KEY MAP
4-17	PLAN & PROFILE
18-20	SEWER PROFILES
21	PUMP STATION PLAN
22	ELECTRICAL PLAN
23-24	EROSION & SEDIMENTATION CONTROL NOTES
25-27	CONSTRUCTION DETAILS

GENERAL NOTES

- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT ALL REQUIRED PERMITS ARE OBTAINED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH 2. EFFINGHAM COUNTY SPECIFICATIONS.
- 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 (1-800-282-7411) 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.
- 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.
- ALL REINFORCED CONCRETE PIPE (RCP) SHALL MEET THE REQUIREMENTS OF AASHTO:M170 (GDOT STANDARD SPECIFICATIONS - SECTION 843).
- FILL MATERIAL SHALL BE CLEAN AND FREE OF ALL DEBRIS AND ORGANIC MATERIAL.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND FURNISHING THE BORROW MATERIAL NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT.
- ALL ITEMS REMOVED FROM THE PROJECT WHICH ARE NOT TO BE REUSED SHALL BE MOVED TO A LOCATION APPROVED BY THE OWNER.
- 10. 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.
- 11. ALL SIGNING SHALL BE PER DOT STANDARDS AND M.U.T.C.D.
- 12. ALL TREES TO REMAIN WITHIN THE CONSTRUCTION AREA ARE TO BE PROTECTED DURING CONSTRUCTION; SEE TREE PROTECTION DETAIL.

CONSTRUCTION NOTES

WATER MAIN NOTES

- PIPES, FITTINGS, VALVES AND OTHER MATERIAL SHALL. UNLESS 1. 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. 2. 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 SYSTEM CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE EFFINGHAM COUNTY STANDARD SPECIFICATIONS, LATEST EDITION.
- ALL PHASES OF CONSTRUCTION SHALL COMPLY WITH THE GEORGIA 4 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 5. 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 EFFINGHAM COUNTY REPRESENTATIVE, OTHERWISE ALL EQUIPMENT SHALL BE STORED IN THE DESIGNATED MATERIALS STORAGE AREAS.
- 7. 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 REMAIN OPEN.
- 8. THE MINIMUM HORIZONTAL AND VERTICAL SEPERATION BETWEEN WATER LINES, SEWER LINES, AND STORM DRAINS SHALL CONFORM TO THE LATEST GEORGIA EPD REQUIREMENTS.
- MAXIMUM JOINT DEFLECTION AND BENDING OF PVC PIPE SHALL NOT EXCEED MANUFACTURER'S SPECIFICATIONS AND INSTALLATION RECOMMENDATIONS.
- 10. AFTER DISINFECTION IS COMPLETED THE CHLORINATED DISINFECTED WATER SHALL NOT BE DISCHARGED INTO THE STORM WATER SYSTEM.

SPECIAL NOTES:

- MEGA-LUG JOINT RESTRAINTS TO BE USED WHERE MECHANICALLY RESTRAINED JOINTS ARE NEEDED FOR PIPES, FITTINGS, AND VALVES
- 2. ALL PVC PIPE TO BE CLASS 235 C905 DR 18.
- 3. MIN. COVER OF WATERMAIN SHALL BE 36" FROM FINISH GRADE.
- 4. MAINTAIN ACCESS TO PROPERTIES ALONG PROJECT ROUTE AT ALL TIMES DURING CONSTRUCTION.
- 5. ALL ITEMS DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THE THEIR ORIGINAL CONDITION.
- COORDINATION WITH EFFINGHAM COUNTY THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION WITH THE COUNTY ADMINISTRATOR SO AS TO MINIMIZE DISRUPTION TO THE RESIDENTS ALONG THE PROJECT ROUTE. TO THIS PURPOSE, THE CONTRACTOR WILL BE REQUIRED TO MAKE THE FOLLOWING ADJUSTMENTS TO THE PROJECT:
- 1. TEMPORARY ACCESS: THE CONTRACTOR SHALL MAINTAIN ACCESS TO PROPERTIES DURING CONSTRUCTION.
- 2. ORDER OF CONSTRUCTION: THE CONTRACTOR SHALL PROCEED IN A LINEAR FASHION ALONG THE PROJECT ROUTE UNLESS OTHERWISE APPROVED BY THE ENGINEER. PRIOR TO BEGINNING CONSTRUCTION CONTRACTOR WILL DEVELOP A STAGE CONSTRUCTION PLAN AND SUBMIT IT TO THE ENGINEER FOR APPROVAL.
- 3. LIMITS OF CONSTRUCTION: CONSTRUCTION SHALL BE LIMITED TO THE RIGHT-OF-WAY OR EASEMENT AREAS. CONTRACTOR SHALL STAY WITHIN THE PROJECT AREA WITH ALL HEAVY EQUIPMENT. CONTRACTOR SHALL CLEAR AND CUT ONLY TREES LOCATED WITHIN THE PROJECT CORRIDOR NEEDED FOR CONSTRUCTION OF THIS PROJECT. STUMPS SHALL BE REMOVED EITHER BY EXCAVATION OR GRINDING. CONTRACTOR SHALL WORK AROUND AND PROTECT TREES LOCATED OUTSIDE OF THE PROJECT AREA.
- 4. MATERIAL STORAGE: FIELD STORAGE OF MATERIALS NOT IN IMMEDIATE USE IS RESTRICTED TO AREAS DESIGNATED OR APPROVED BY EFFINGHAM COUNTY.
- 5. EQUIPMENT STORAGE: END OF THE DAY STORAGE OF EXCAVATION EQUIPMENT ALONG THE PROJECT ROUTE WILL BE ALLOWED ONLY AS APPROVED BY EFFINGHAM COUNTY, OTHERWISE ALL EQUIPMENT SHALL BE STORED IN THE DESIGNATED MATERIALS STORAGE AREAS.
- 6. PROTECTION OF EXISTING UTILITIES: THE PROJECT CORRIDOR MAY HAVE EXISTING TELEPHONE, FIBER, GAS, POWER, WATER, SEWER, AND STORM DRAINAGE SYSTEMS. THE CONTRACTOR SHALL BE AWARE OF THE PRESENCE OF THESE SYSTEMS AT ALL TIMES DURING CONSTRUCTION AND SHALL PROTECT THEM FROM DAMAGE. IF DAMAGED BY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL IMMEDIATELY REPAIR THESE SYSTEMS AT HIS OWN EXPENSE.
- 7. PROTECTION OF EXCAVATED 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 REMAIN OPEN.
- 8. RESTORATION PROJECT: THE CONTRACTOR SHALL RESTORE THE PROJECT AREA TO ITS EXISTING CONDITION AFTER PROJECT CONSTRUCTION IS COMPLETED.
- CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING EXISTING WATER & SEWER SERVICE DURING THE CONSTRUCTION OF THIS PROJECT.

SURVEY CONTROL			
	FOUND	<u>SET</u>	
CONTROL NAIL		\triangle^{NS}	
IRON PIPE) Ø	IPS ●	
IRON REBAR	o IRF	IRS ●	
HUB & TACK	● ^{HTF}	HTS ●	
CONCRETE MONUMENT	<i>CMF</i> ⊡	CMS	
RIGHT-OF-WAY MARKER	<i>R₩MF</i> ⊞	RWMS	
BENCHMARK	⊕ ^{BMF}	♦ BMS	

FENCE LINE

<u>EXISTING</u>

CHAIN LINK

BARBED WIRE

HOG WIRE

	WATER
	EXISTING
WATERMAIN LINE	w
BACKFLOW PREVENTER	
BLOW-OFF	B0 ⊳
FIRE HYDRANT	葓
HOSE BIBB (SPIGOT)	<i>HB</i> O
WELL	(W)
WATER METER	<i>wм</i> О
WATER MANHOLE	W ^{MH}
WATER VALVE	\bowtie^{WV}

PROPOSED		
0	SANITA	RY SEWER
x		EXISTING
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 0	CENTER SANITARY MANHOLE	S
<u> </u>	GREASE TRAP	S
——X	SANITARY SEWER LINE	SS
——————————————————————————————————————	FORCEMAIN LINE	FM

	STORM
	EXISTING
PIPES	ST
DRAINAGE MANHOLE	\bigcirc
FLARED END SECTION	\Box
INVERT ELEVATION	
CURB INLET TYPE A	0
CURB INLET TYPE B	\bigcirc
CURB INLET TYPE C	
ROOF INLET	
GRATE INLET	
RIP RAP	ς

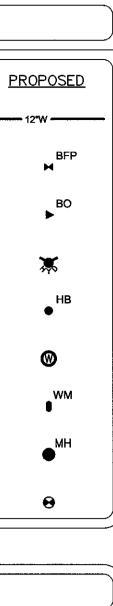


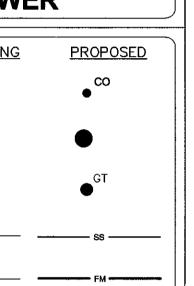
EXISTING PROPOSE	
BUILDING	
<u></u>	
SILT FENCE (DOUBLE)	
SILT FENCE (SINGLE)	SANITARY
WOODEN	GREASE
WROUGHT IRON	CENTER S

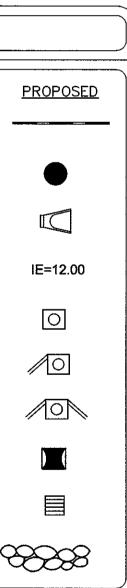
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BUILDING			
	EXISTING	PROPOSED	
BUILDING LINE			
BUILDING OVERHANG		~ ~ ~ ~ ~ ~ ~ ~ ~	
FINISHED FLOOR ELEVATION	15.00	FF 15.00	

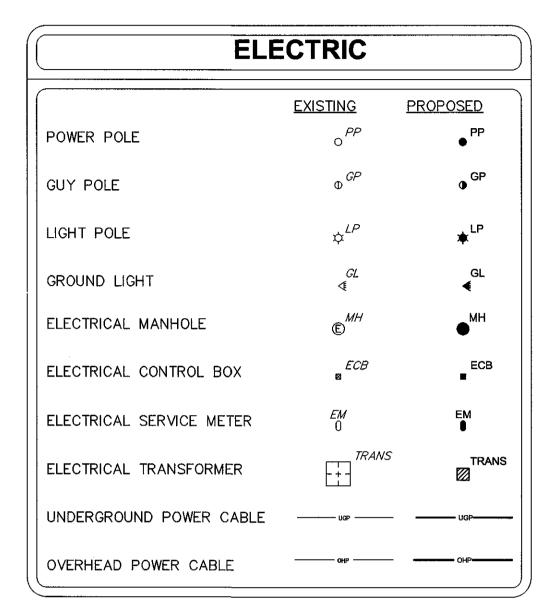
GROUND/DITCH				
	EXISTING	PROPOSED		
SPOT ELEVATION	×12.00	+ _{12.00}		
CONTOURS		<u> </u>		
CENTERLINE OF DITCH	· · >	> ,		
WATERS EDGE	· ·			





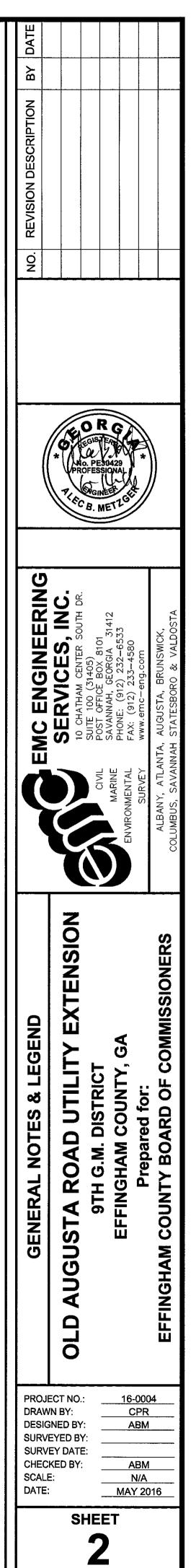


	GAS	
	EXISTING	PROPOSED
GAS LINE	GAS	GAS
GAS METER	GM O	GM ●
GAS MANHOLE	© ^{MH}	● ^{MH}
GAS VALVE	$\bowtie^{\mathcal{CV}}$	⊢ ^{GV}



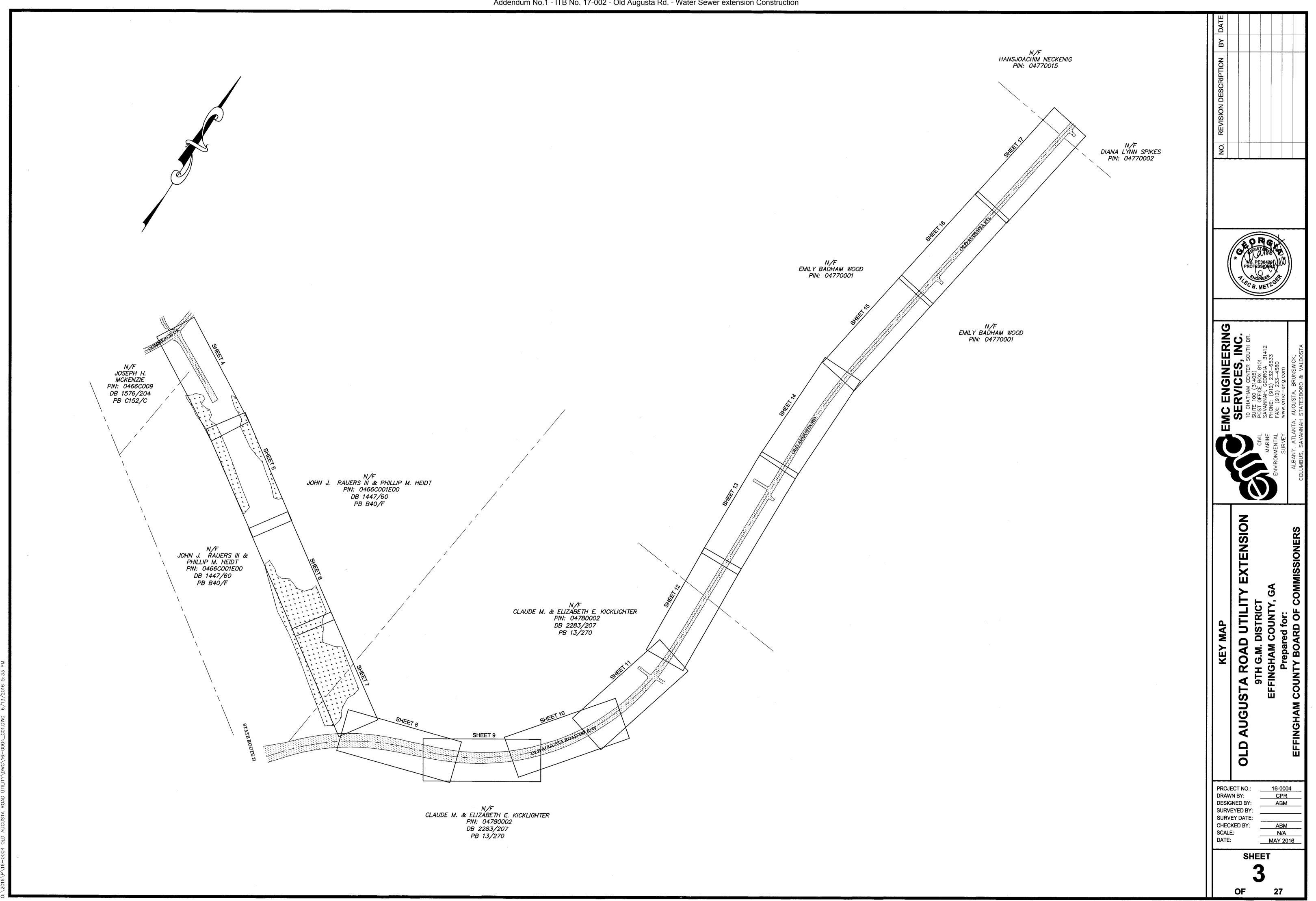
TELEPHONE			
	EXISTING	PROPOSED	
TELEPHONE BOOTH	TB [X]	ТВ	
TELEPHONE PEDISTAL	TELE PED ⊠	TP	
TELEPHONE MANHOLE	I) ^{MH}	●МН	
UNDERGROUND TELEPHONE	UGT	UGT	

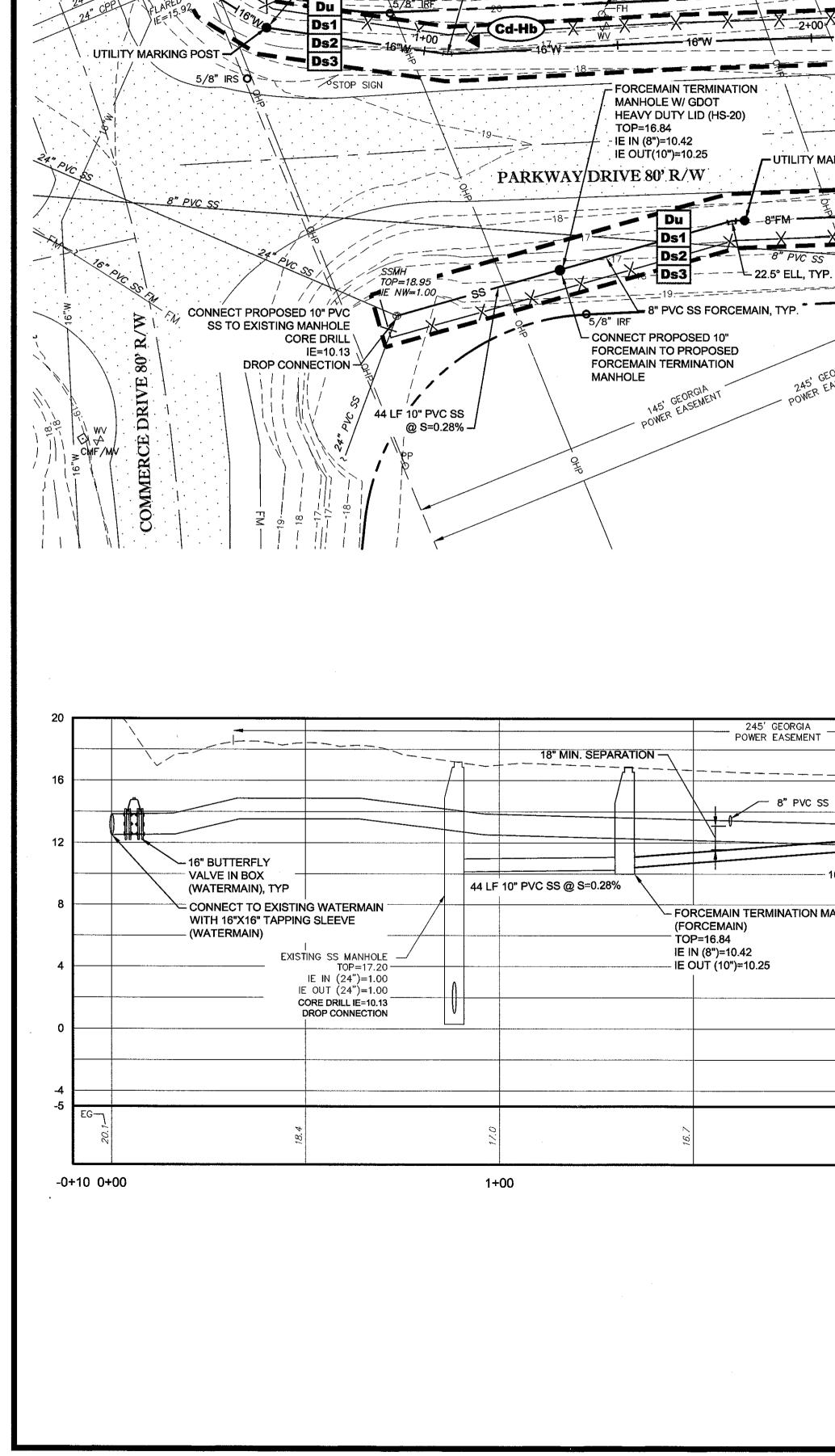
ROADWAY				
	EXISTING	PROPOSED		
CENTERLINE OF ROAD				
EDGE OF ASPHALT				
CURB & GUTTER				
EDGE OF CONCRETE				
EDGE OF GRAVEL				
EDGE OF DIRT				
EDGE OF DRIVEWAY				
GUARDRAIL	0			



OF

27





- CONTRACTOR TO VERIFY

5/8" IRF CO2238

- 22.5° ELL, TYP.

LOCATION OF WATER LINE

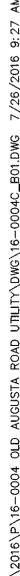
AT TIME OF CONSTRUCTION

CONNECT TO EXISTING WATERMAIN WITH 16"X16" TAPPING SLEEVE W/

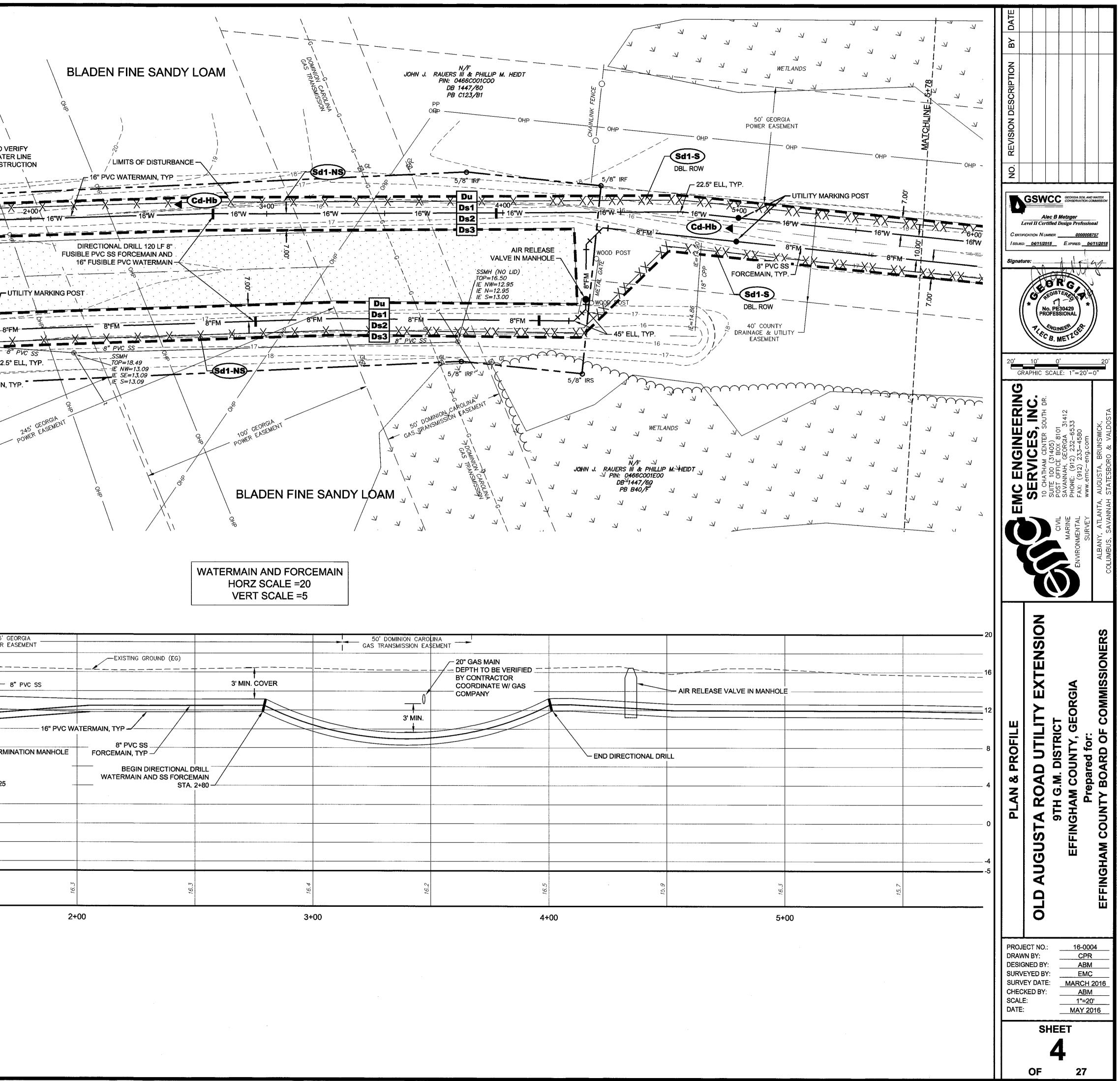
- 22.5° ELL, TYP.

VALVE IN MANHOLE

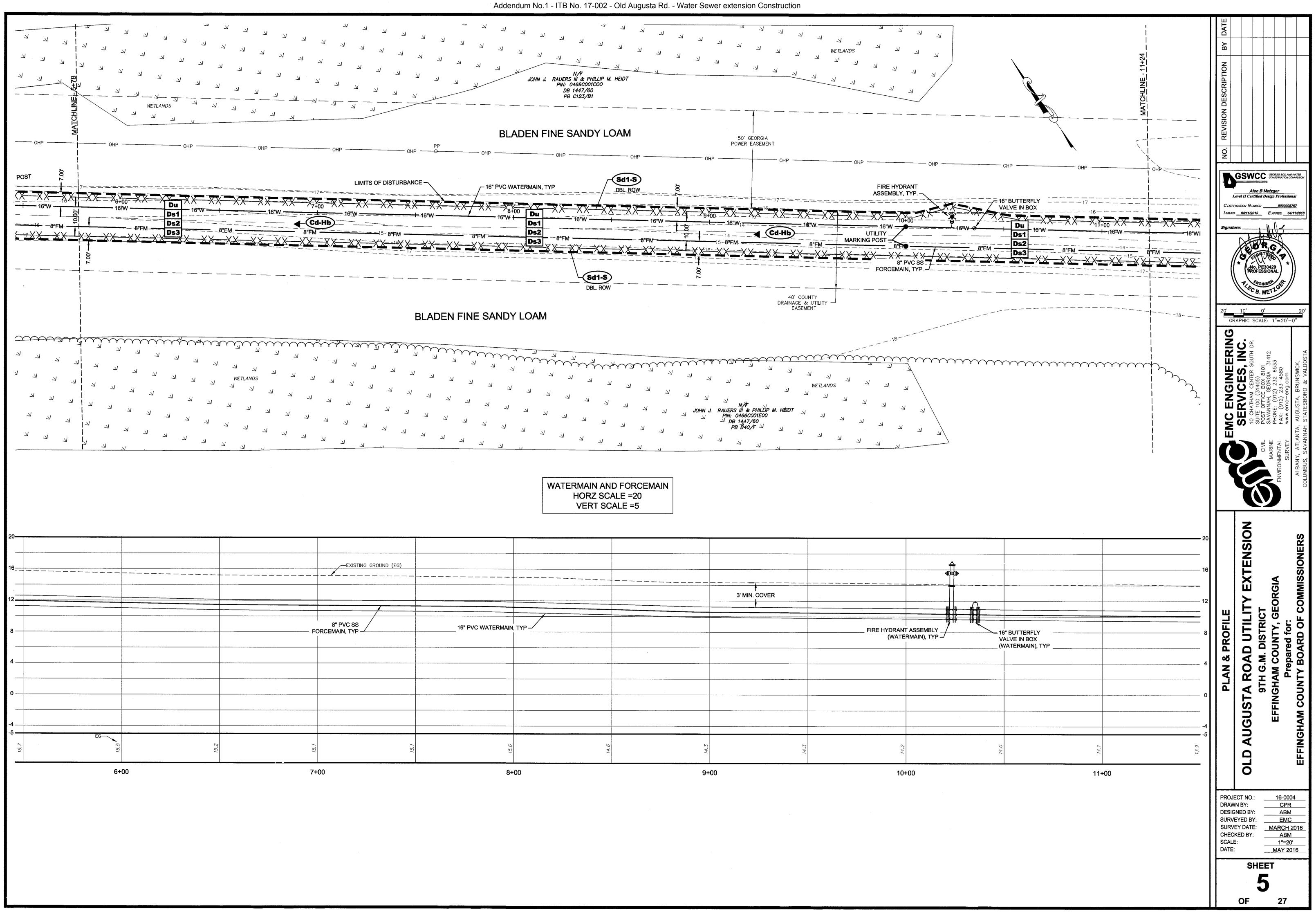
- 45° ELL, TYP.



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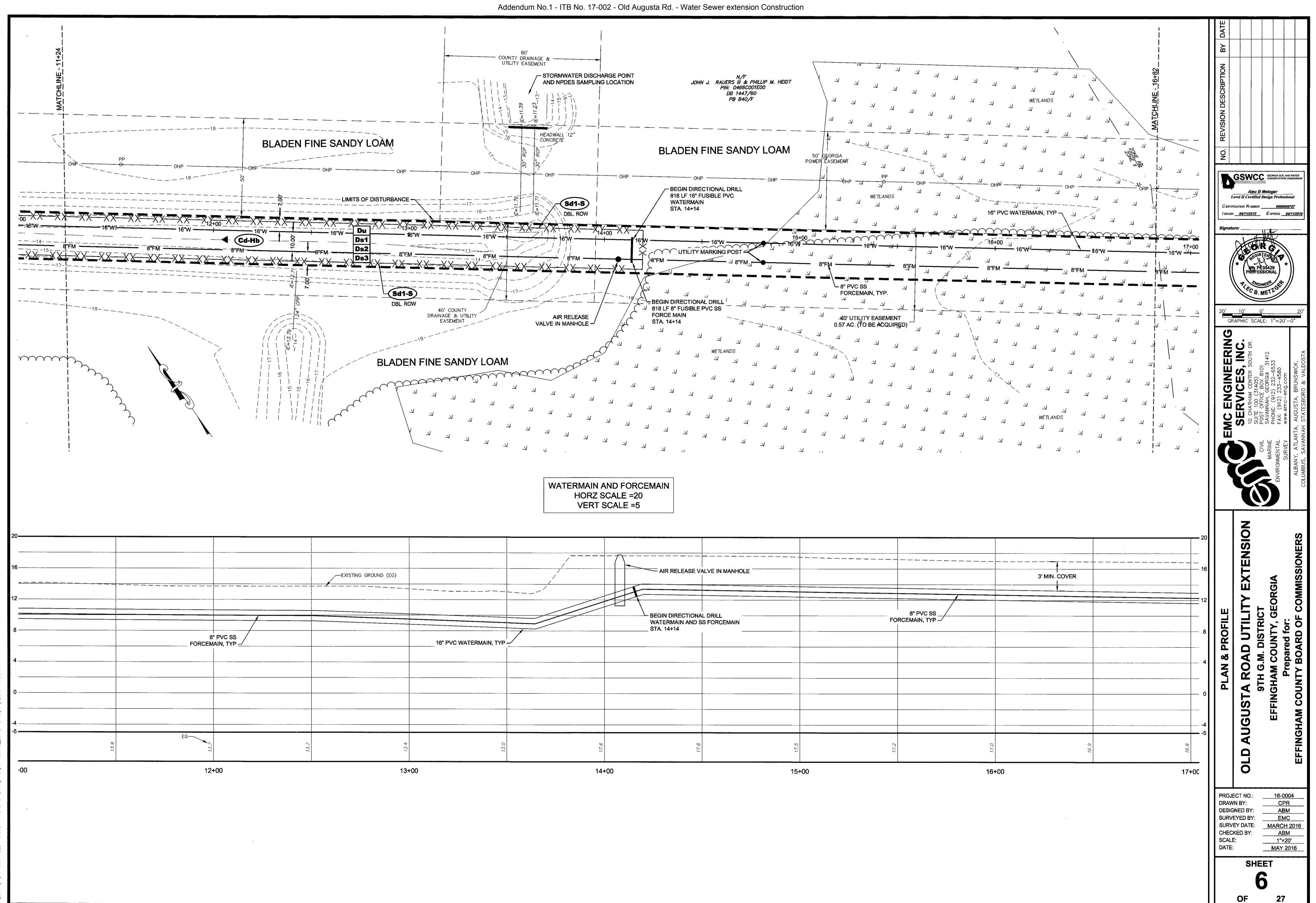


	EXISTING GROUND (EG)	3' MIN. COVER		20" GAS MAIN — DEPTH TO BE VERIFIED — — BY CONTRACTOR COORDINATE W/ GAS COMPANY	
6" PVC WA			3' MIN.		
	8" PVC SS				
ANHOLE	FORCEMAIN, TYP				
	BEGIN DIRECTIONAL D WATERMAIN AND SS FORCEN STA.	MAIN /			
		· · · · · · · · · · · · · · · · · · ·			
16.3	16.3	4.9 7	.5 16.2	16.5	
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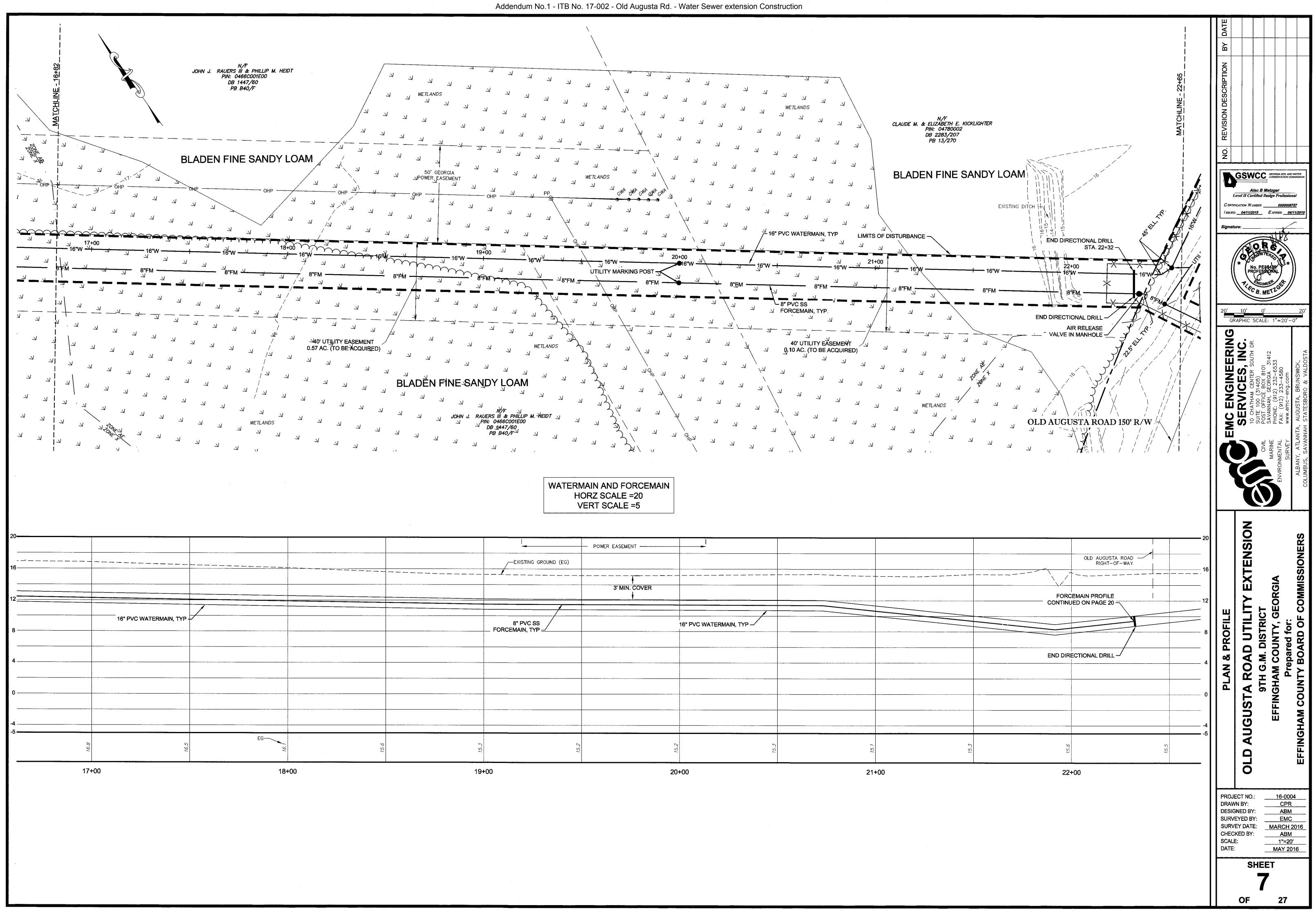
WATERMAIN AND FORCEMAIN
HORZ SCALE =20
VERT SCALE =5

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17.6		5.41			14.6	15.0
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		<u></u>			TYP	16" PVC WATERMAIN
		COVER	3' MIN.			



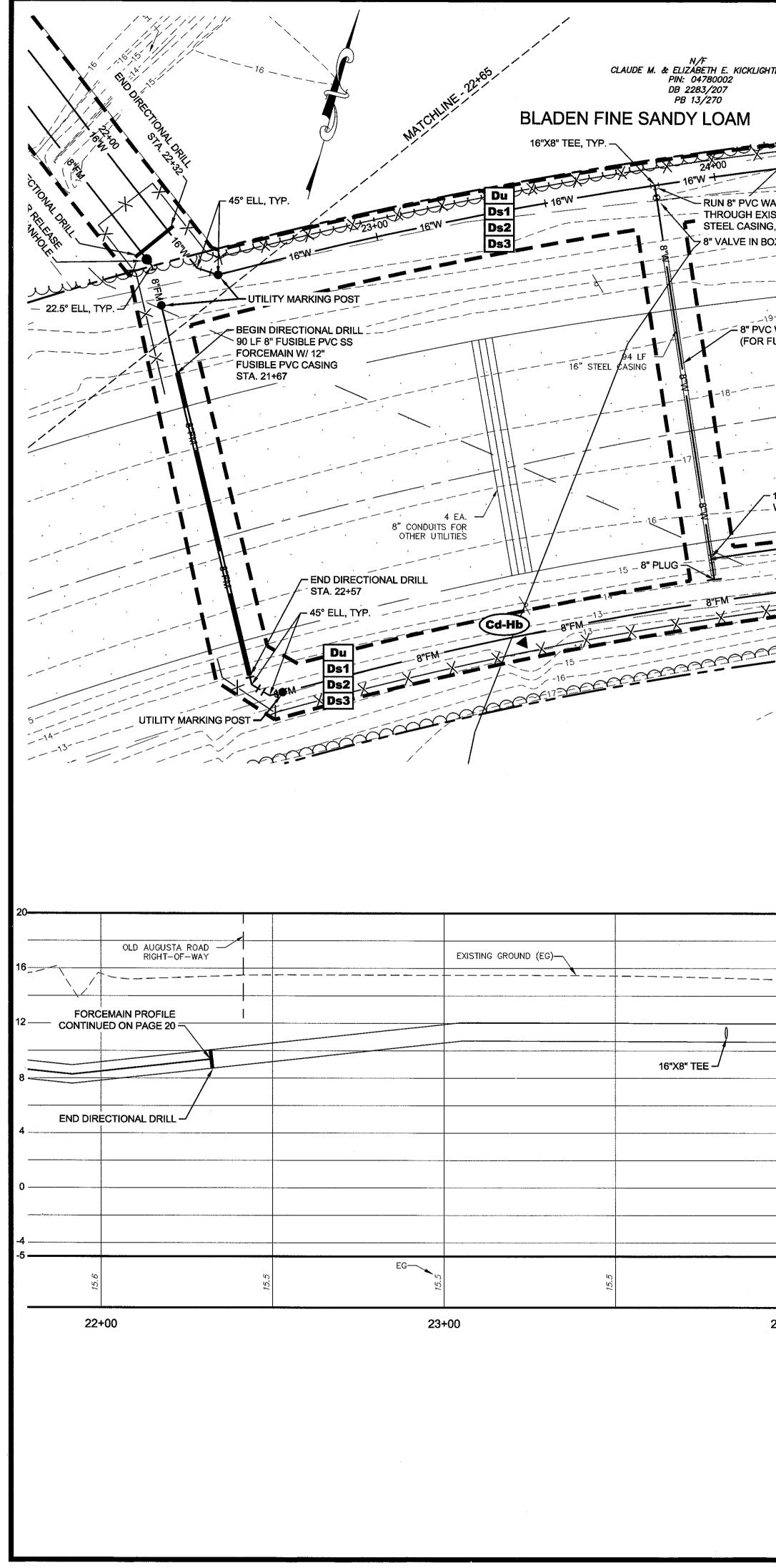
WATERMAIN AND FORCEMAIN
HORZ SCALE =20
VERT SCALE =5

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		AIR RELEASE V	 ALVE IN MANHOLE		
	/				
		BEGIN DIRECTIONA WATERMAIN AND S STA. 14+14		FO	8" PV RCEMAIN,
 16" PVC WATERMAIN, TYP 					
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7. Cv		21 	77.	7.	



WATERMAIN AND FORCEMAIN
HORZ SCALE =20
VERT SCALE =5

104	.00	20	100		. 00
15.3	15.2	15.2	15.3	15.1	
		· · · · · · · · · · · · · · · · · · ·			
	FORCEMAIN, TYP _/				
	8" PVC SS		16" PVC WATERMAIN, TYP		
		3' MIN. COVER			+
		- POWER EASEMENT			



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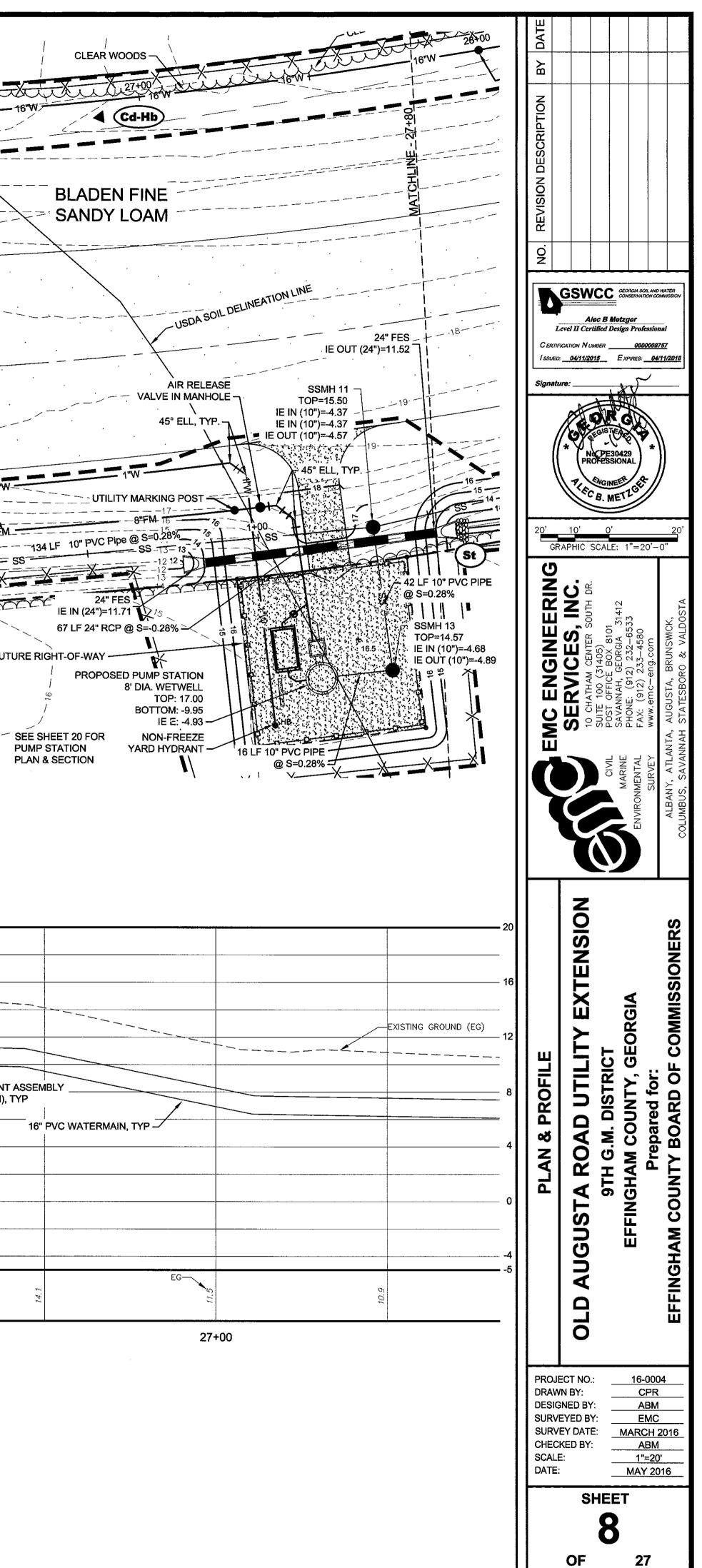
	EULONIA SAND	Y LOAM			1
LIGHTER		OF DISTURBANC	$= \sqrt{2}$	Sd1-NS	
		/		- AND	and the first
16" PVC WATER	16		A A A A A A A A A A A A A A A A A A A	26+00	16"W
and a state of the	X 25+00	- Du	- 16l'W		
		Ds2	VALVE IN BOX		
16"W 15 -		Ds3	ASSEMBLY, TYP>	/	
C WATERMAIN					
EXISTING 16" 17 5				<u></u>	
NBOX	à				
				-17_	
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19			· · · ·	•	
PVC WATERMAIN DR FUTURE USE), TYP			· · · · ·	· ·	
			UGUSTA ROAD 150' R/	W	· · · · · · · · · · · · · · · · · · ·
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				•	
		~/	<pre></pre>	· · · ·	
		•			8" PVC SS
	LIMITS OF DISTURBANC	≣-∖			FORCEMAIN, TYP.
- 1"X8" TAPPING SADDLE	•		1"W	1"W	
W/ 1" VALVE IN BOX	1"W	1	"W		
1"W	1"\\		8"FM15		0+00
	8"FM Ds*	8"FM	Cd-Hb		
_8"FM				SSMH 1 TOP=12.4	$2 - 4 - \alpha$
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pagaaaaaa	2000000000000000	Y_Y_ <u>-</u> Ył	Sd1-NS)		
ppeart				Ì	FUI
	N/F CLAUDE M. & ELIZABETH-E. KICKLIGHTER				
	PIN: 04780002 DB 2283/207 PB 13/270	EULON	IA SANDY LOAM		
	FD 13/2/V				

WATERMAIN AND FORCEMAIN
HORZ SCALE =20
VERT SCALE =5

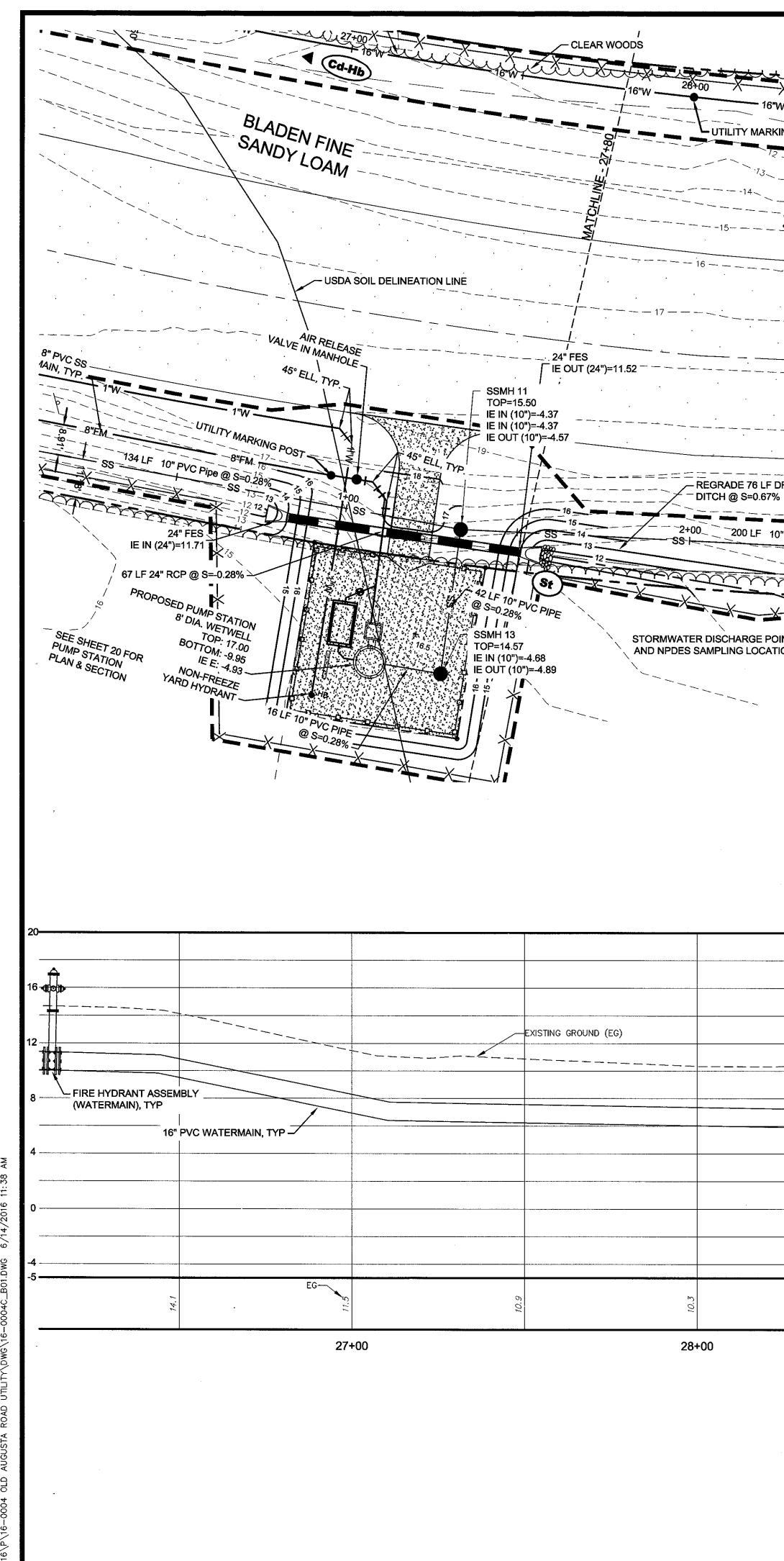
		3' MIN. COVER	~		
				16" BUTTERFLY VALVE IN BOX	
			· · · · · · · · · · · · · · · · · · ·	(WATERMAIN), TYP	(WATERMAIN),
15.2	15.2	15.3	15.0	14.7	

24+00

26+00



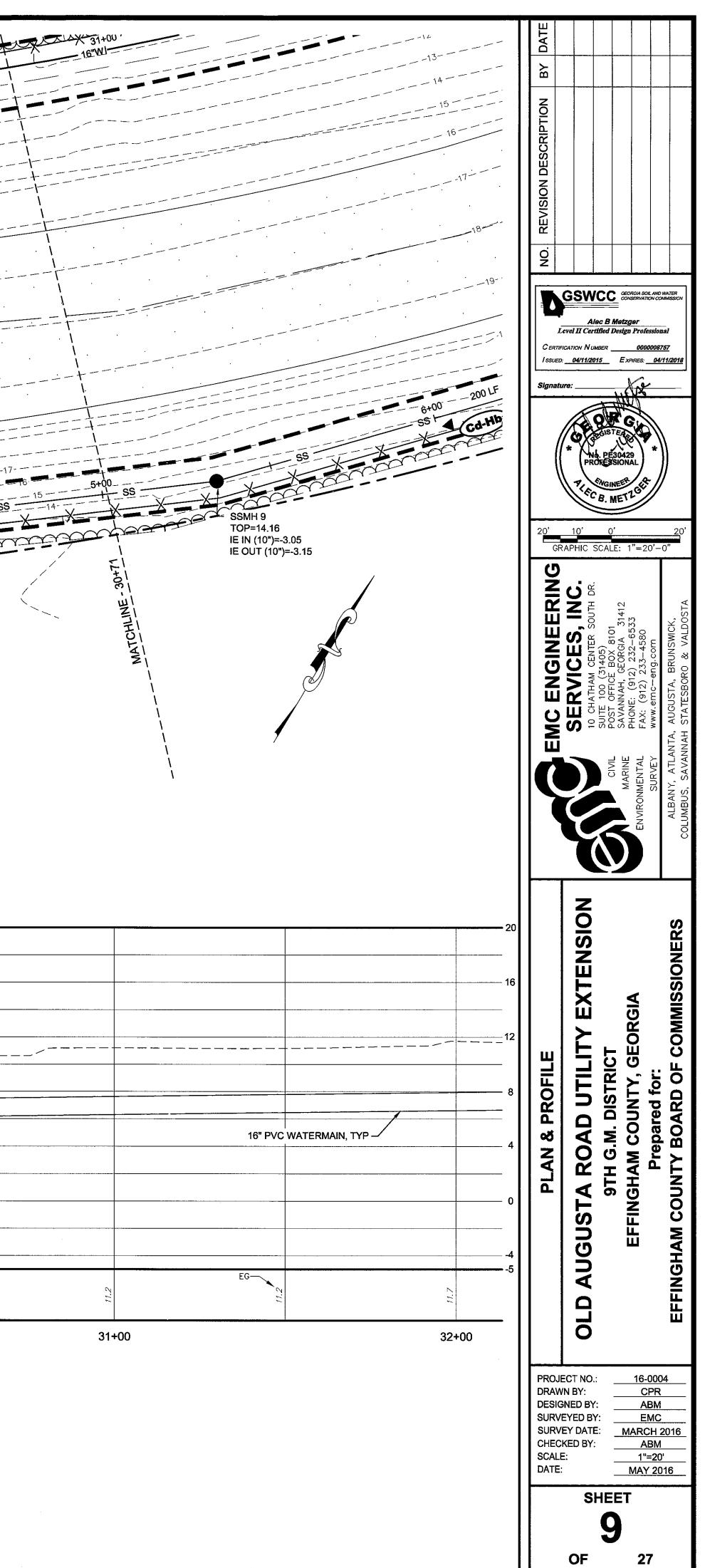
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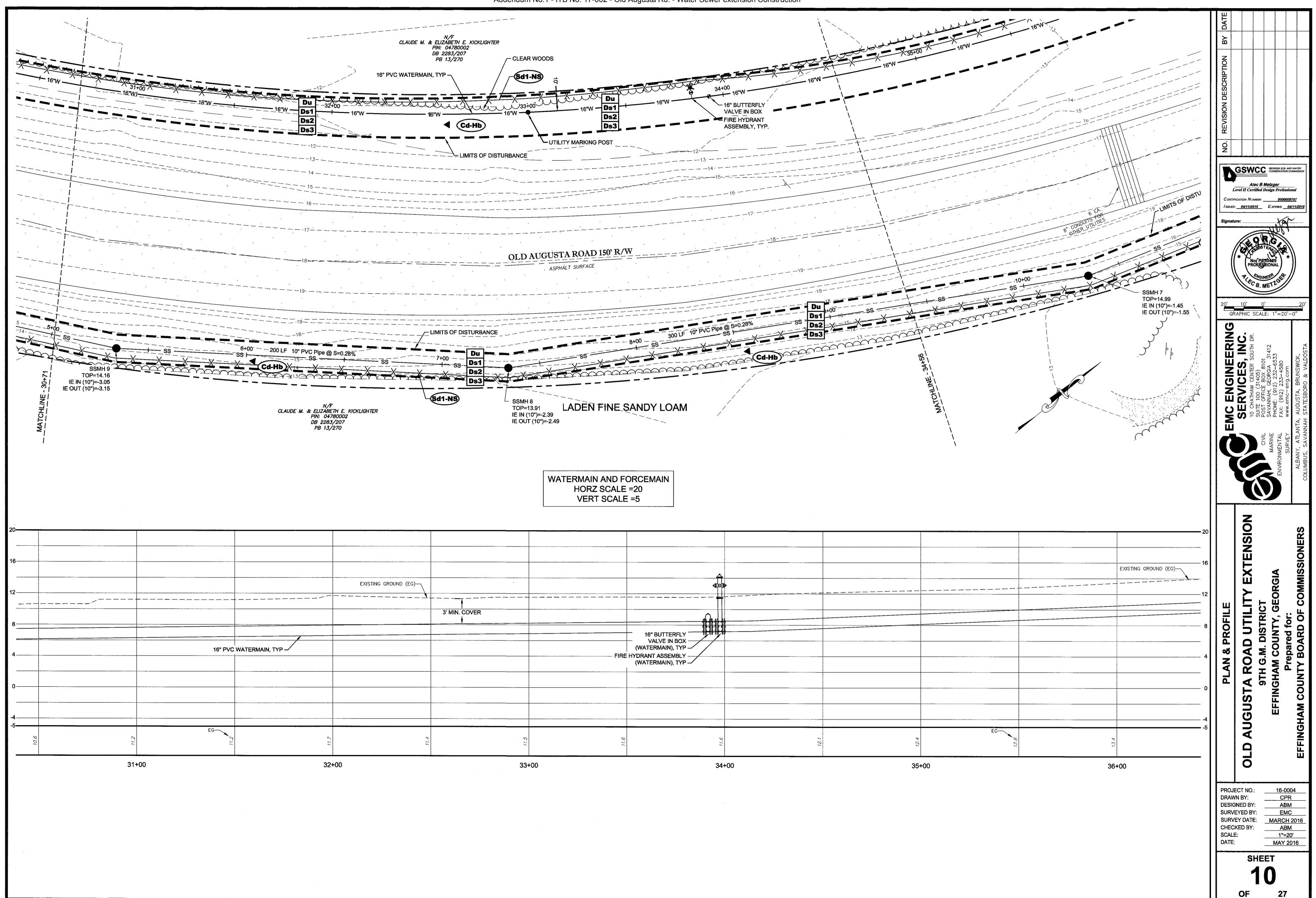


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			29+00 - 16"W Cd-Hb		51 - 16"W		
	10.73 10.76		16" PVC WATERMAI				
		HEAD WALL=10" CONC. WING WALL=8" CONC.			13		
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· · · · · · · · ·	24" RCF 24" RCF 24" RCF		OLD AUGUS	TA ROAD 150' R/	W		
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				=======================================			
6 0" PVC Pipe				Du m	4+00	200 LF 10" PVC Pipe SS	@ S=0.28% SS
SS	++-+	SSSS AD WALL=10" CONC. NG WALL=8"_CONC.	3+00 	Ds1 SS	X X X	X X X	noomoon
		YTYYYYYYY	Cd-Hb	SSMH 10		OF DISTURBANCE	
		1 JOINT 10" DI SS UNDER STORM PIPES REMOVE AND REPLACE AS NECESSARY	Sd1-NS	_ TOP=12.56			

WATERMAIN AND FORCEMAIN HORZ SCALE =20 VERT SCALE =5

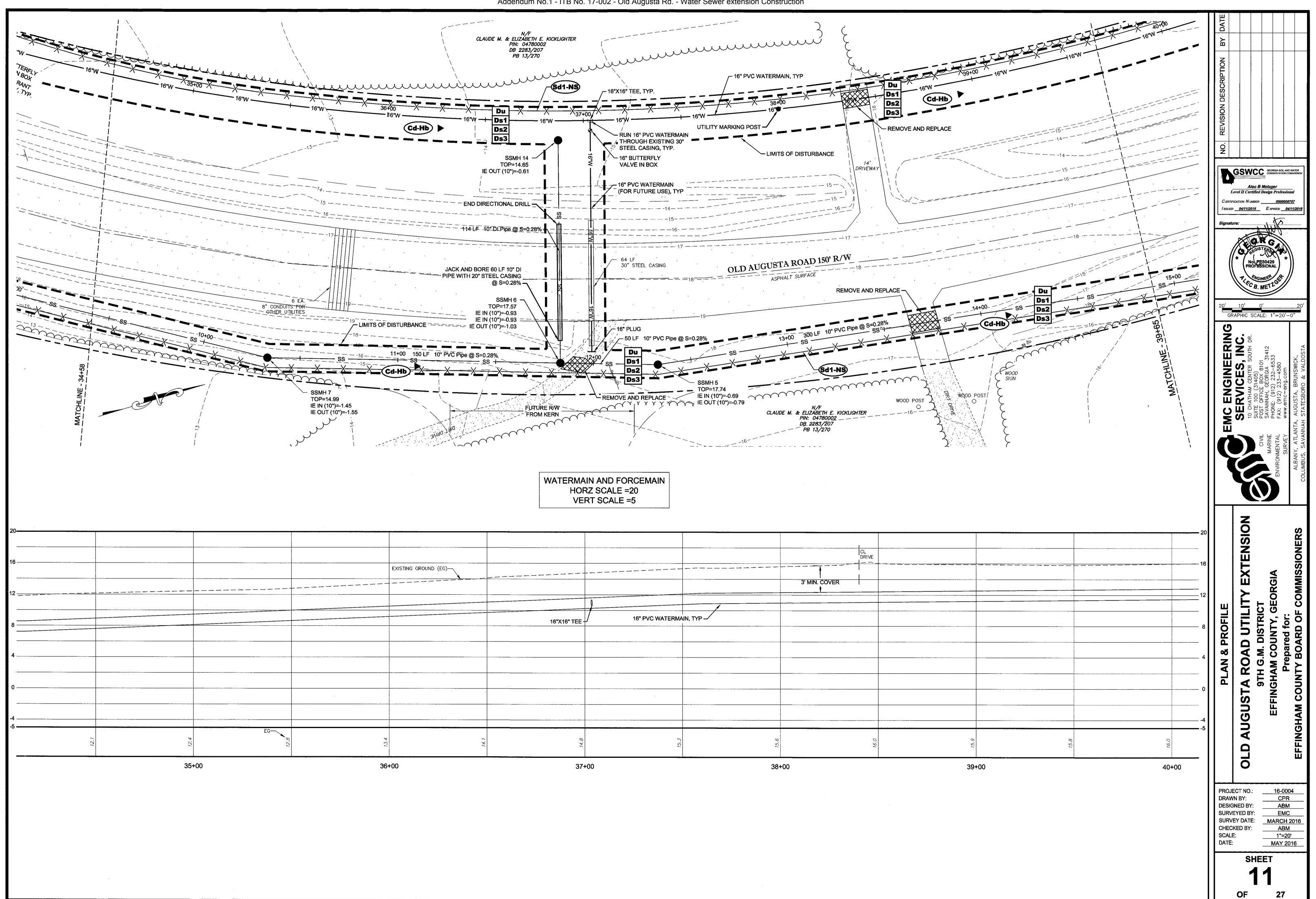
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10.5	10.6	10.7	10.8	10.6	
	3' MIN. COVER				
		· · · · · · · · · · · · · · · · · · ·			
CL DITCH		· · · ·			





WATERMAIN AND FORCEMAIN
HORZ SCALE =20
VERT SCALE =5

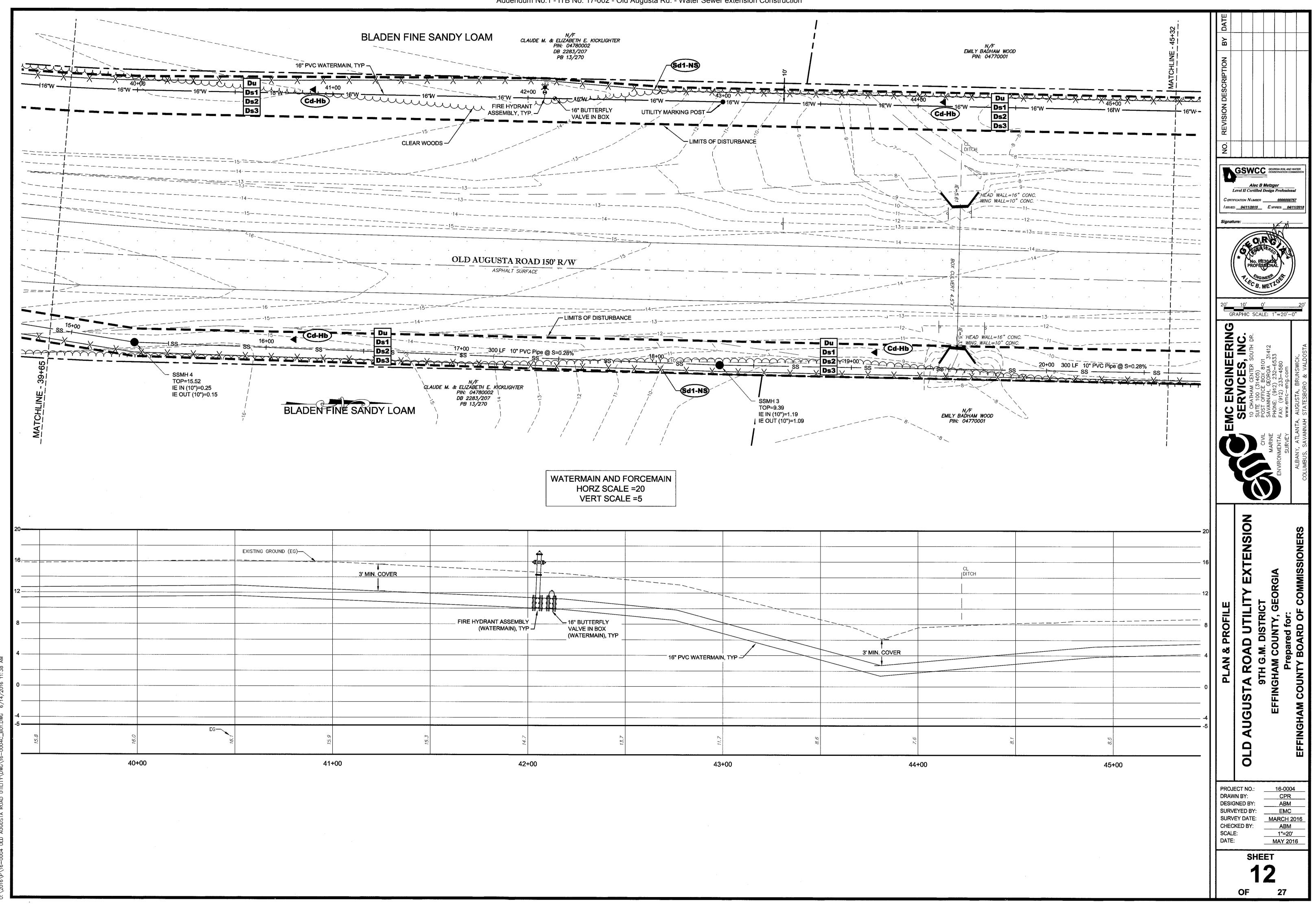
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<u></u>				
		HYDRANT ASSEMBLY		
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		16" BUTTERFLY 16" 16" VALVE IN BOX (WATERMAIN), TYP	· · · · · · · · · · · · · · · · · · ·	
		16" BUTTERFLY		
3' MIN. COVER				
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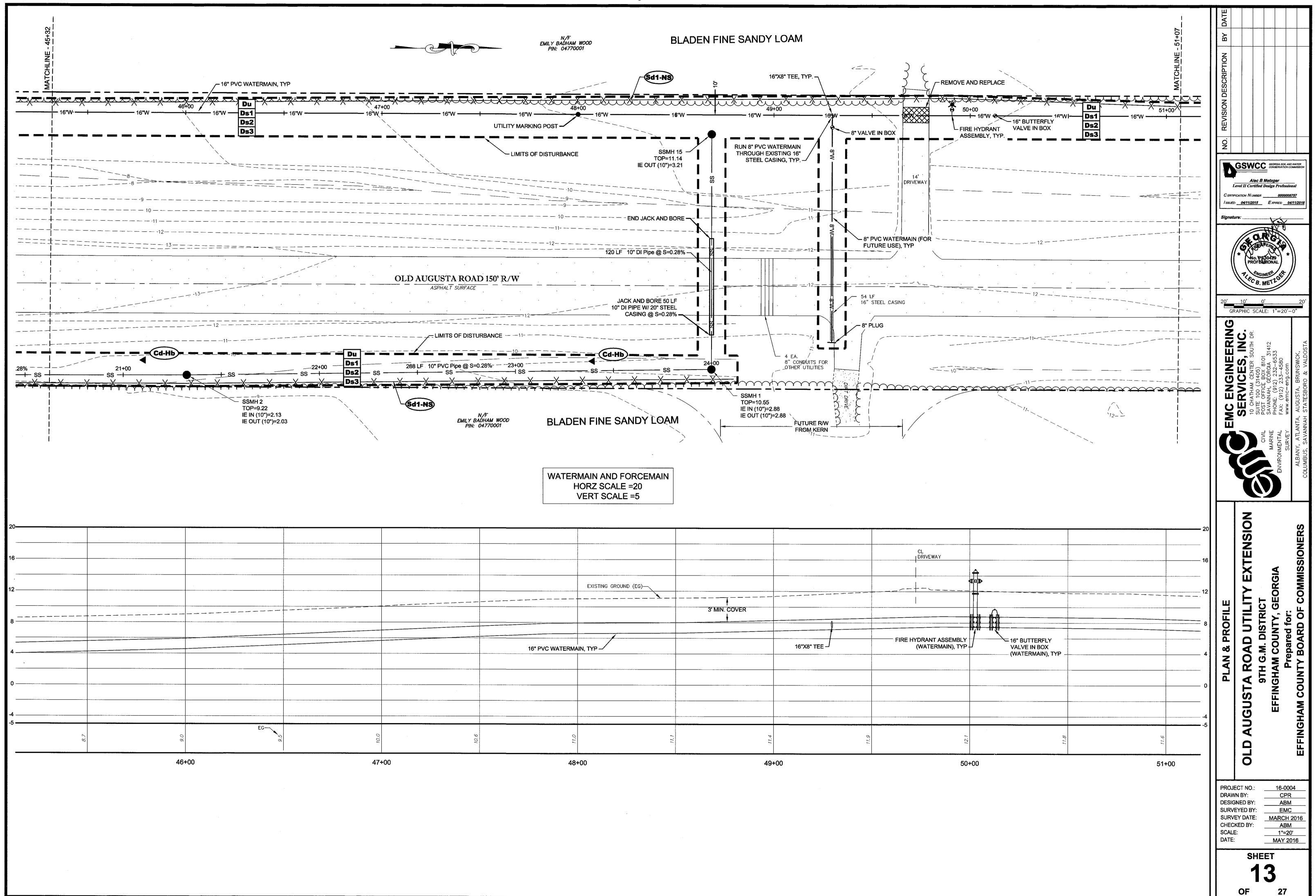




WATERMAIN AND FORCEMAIN
HORZ SCALE =20
VERT SCALE =5

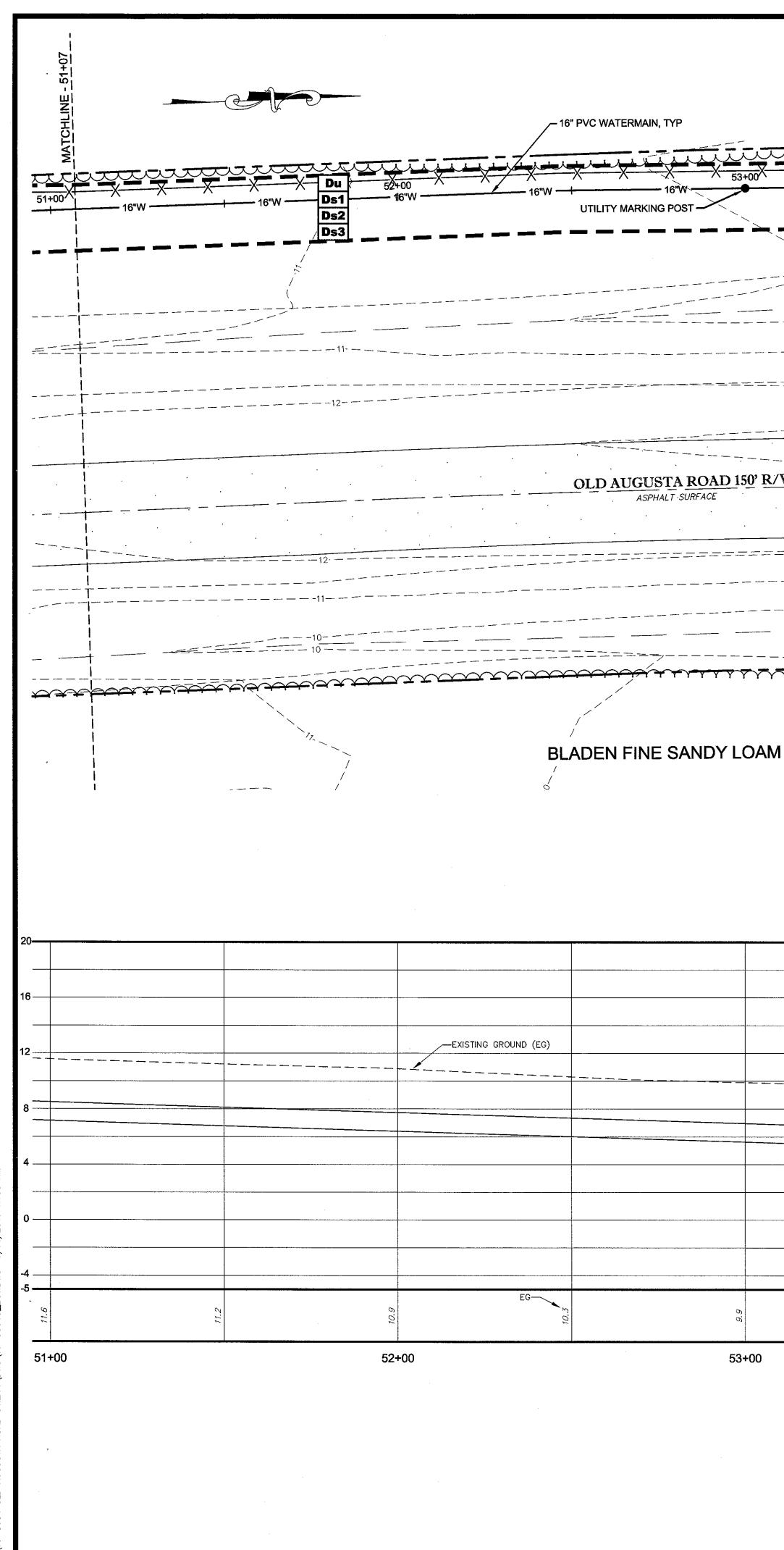
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1.4.1	14. 8.	5.3	5.6	16.0	
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		16" PVC WATERMA			
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				3' MIN. COVER	
D (EG)					
				CL DRIVE	





WATERMAIN AND FORCEMAIN
HORZ SCALE =20
VERT SCALE =5

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				16"X8" TEE	FIRE HYDI (W
			3' MIN. COVER	0	
		EXISTING GROUND (EG)		· · · · · · · · · · · · · · · · · · ·	
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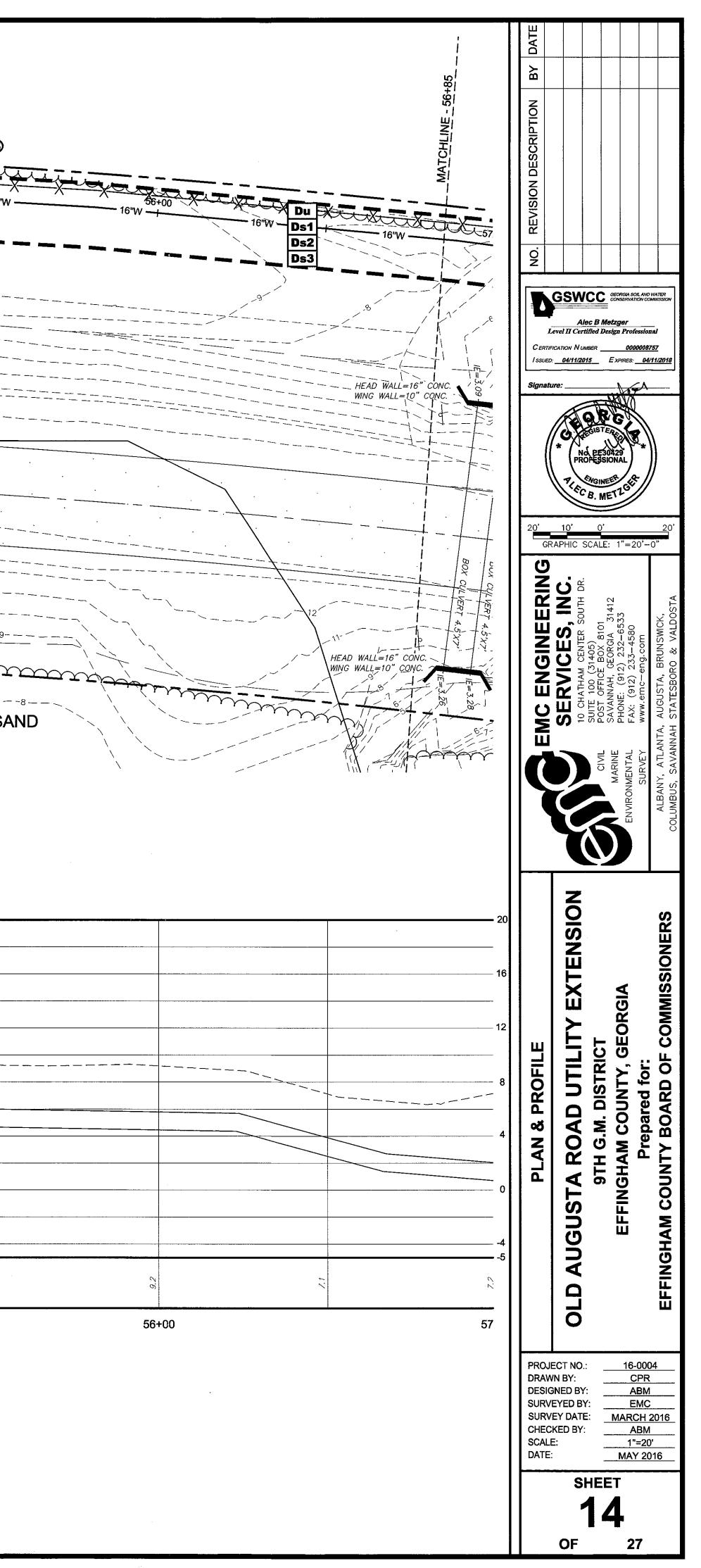


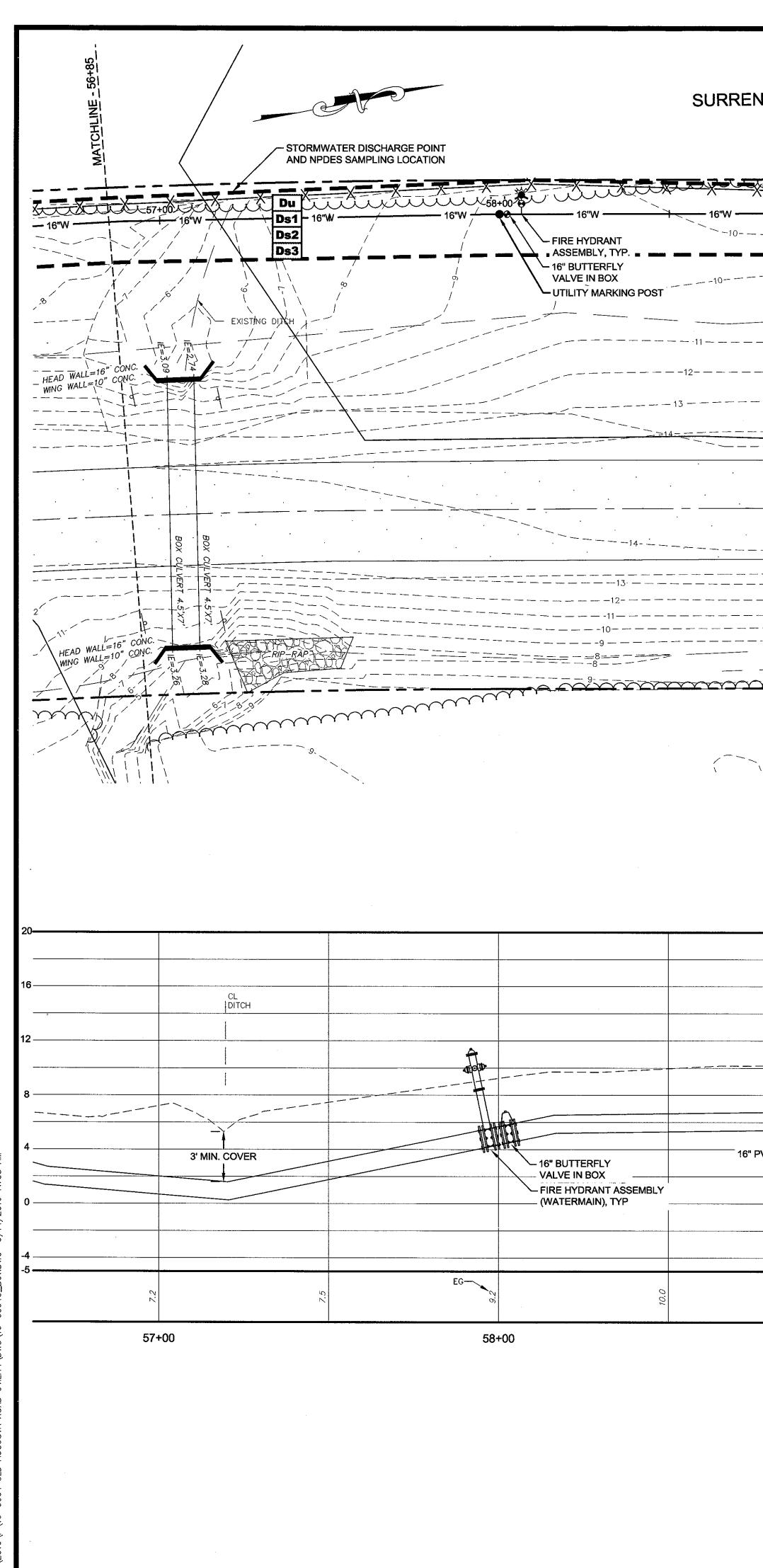
>/16-0004 OLD AUGUSTA ROAD UTILITY/DWG/16-0004C_B01.DW

N/F EMILY BADHAM WOOD PIN: 04770001

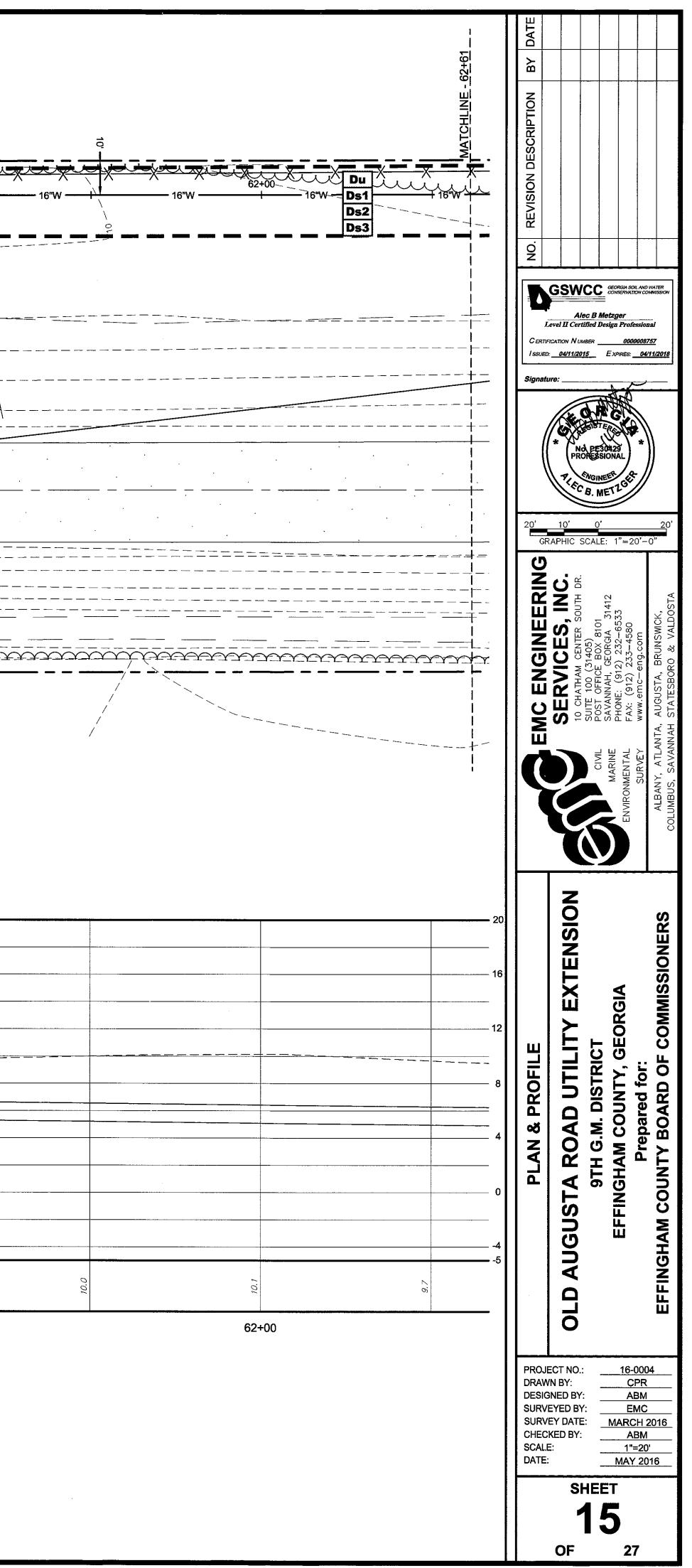
BLADEN FINE SANDY LOAM

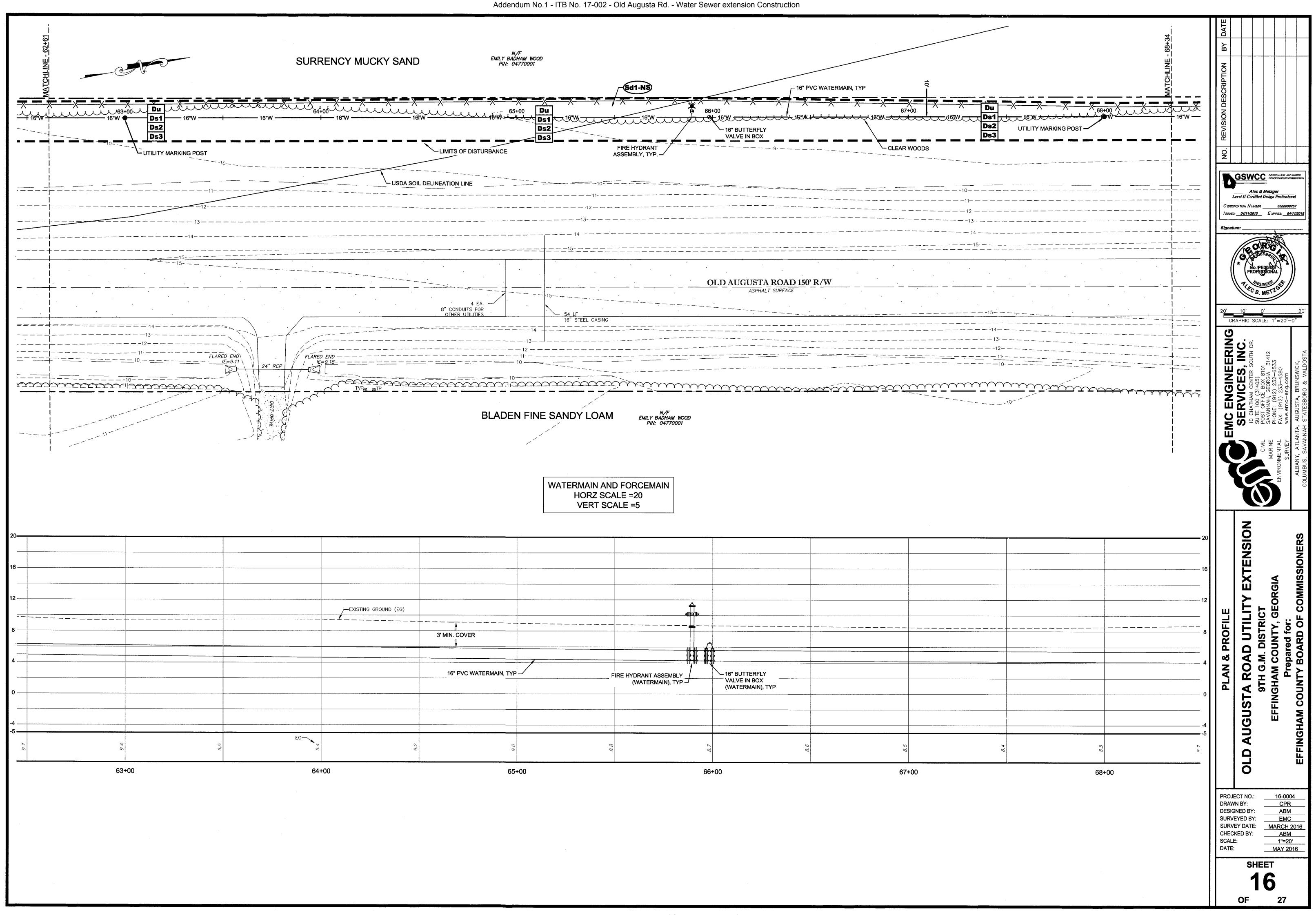
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/1	N/F EMILY BADHAM WOO PIN: 04770001	\ \ \				SURRI	
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		H	VAIN AND FORCI ORZ SCALE =20 /ERT SCALE =5				
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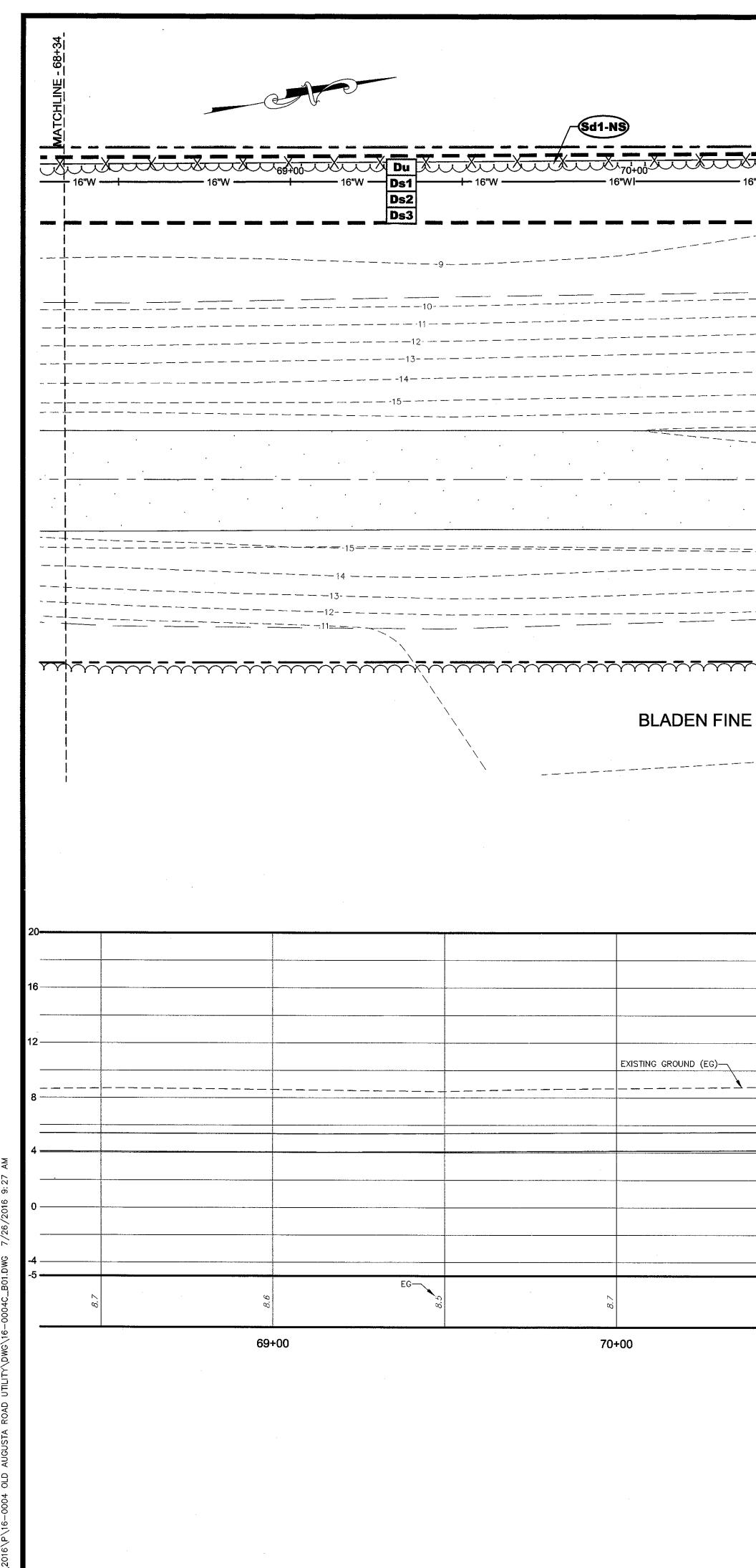


PVC WATERMAIN,		· · ·				
PVC WATERMAIN,						
					•	
	<u> </u>				3'MIN. COVER	
	EXISTING GROUND (E	G)				
,						
		HO	AIN AND FORCEMAIN RZ SCALE =20 RT SCALE =5			
A.		N/F EMILY BADHAI PIN: 0477	N WOOD DOOT	BLADEN FINE SA	NDY LOAM	
YYYYY	min	mm	YYYYYYY			
				OLD AUGUST	A ROAD 150' R/W	
				14		q-
				13 13	· ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
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			LIMITS OF DISTU	JRBANCE	10	
	16"W Ds1 Ds2 Ds3	16"W·-+				
59	+00 Du 7					1+00 6"W ————
		Sd1-NS	16" PVC WA			
NCY MUCł	(Y SAND	EMIL F	N/F Y BADHAM WOOD PIN: 04770001			





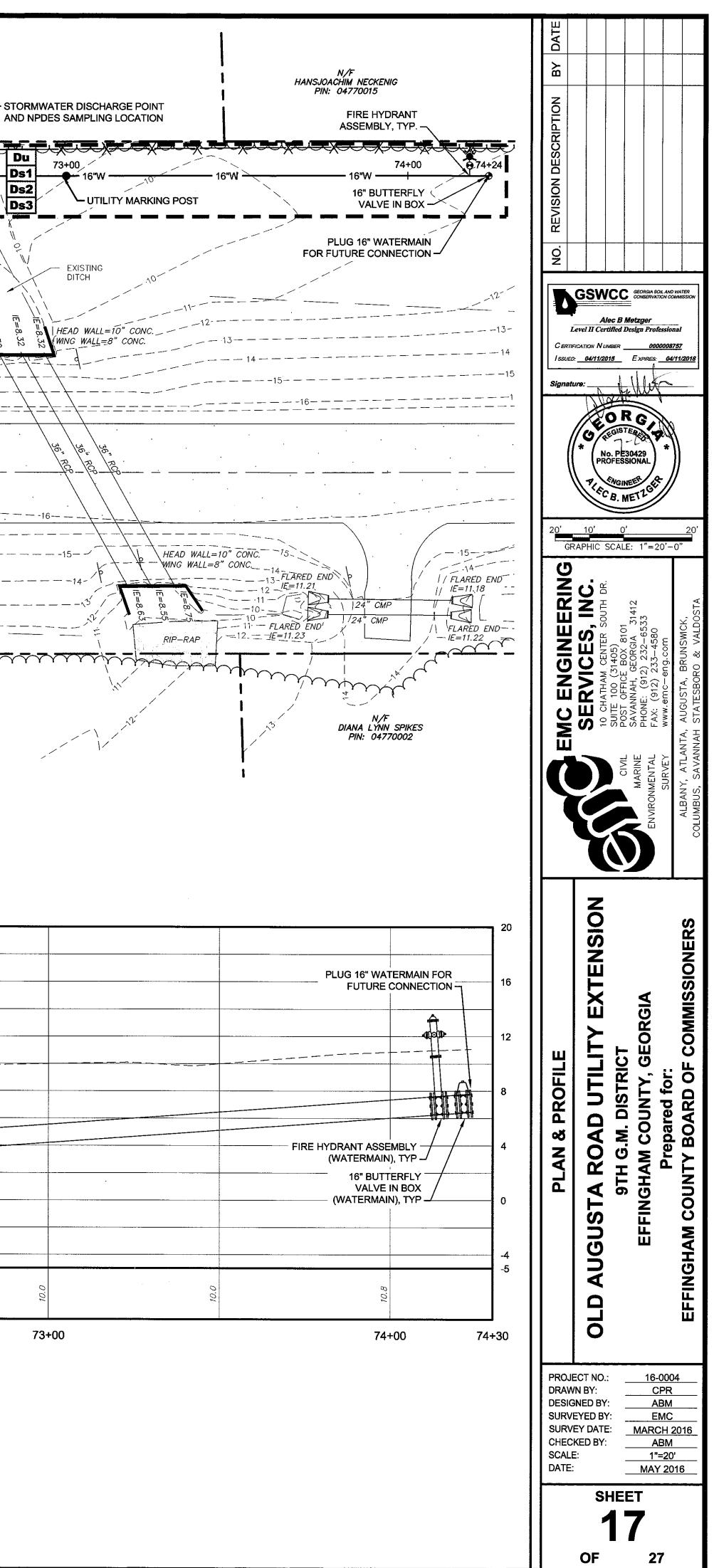
Addendum No.1 - ITB No.	17-002 - Old Augusta Rd	Water Sewer extension Construction

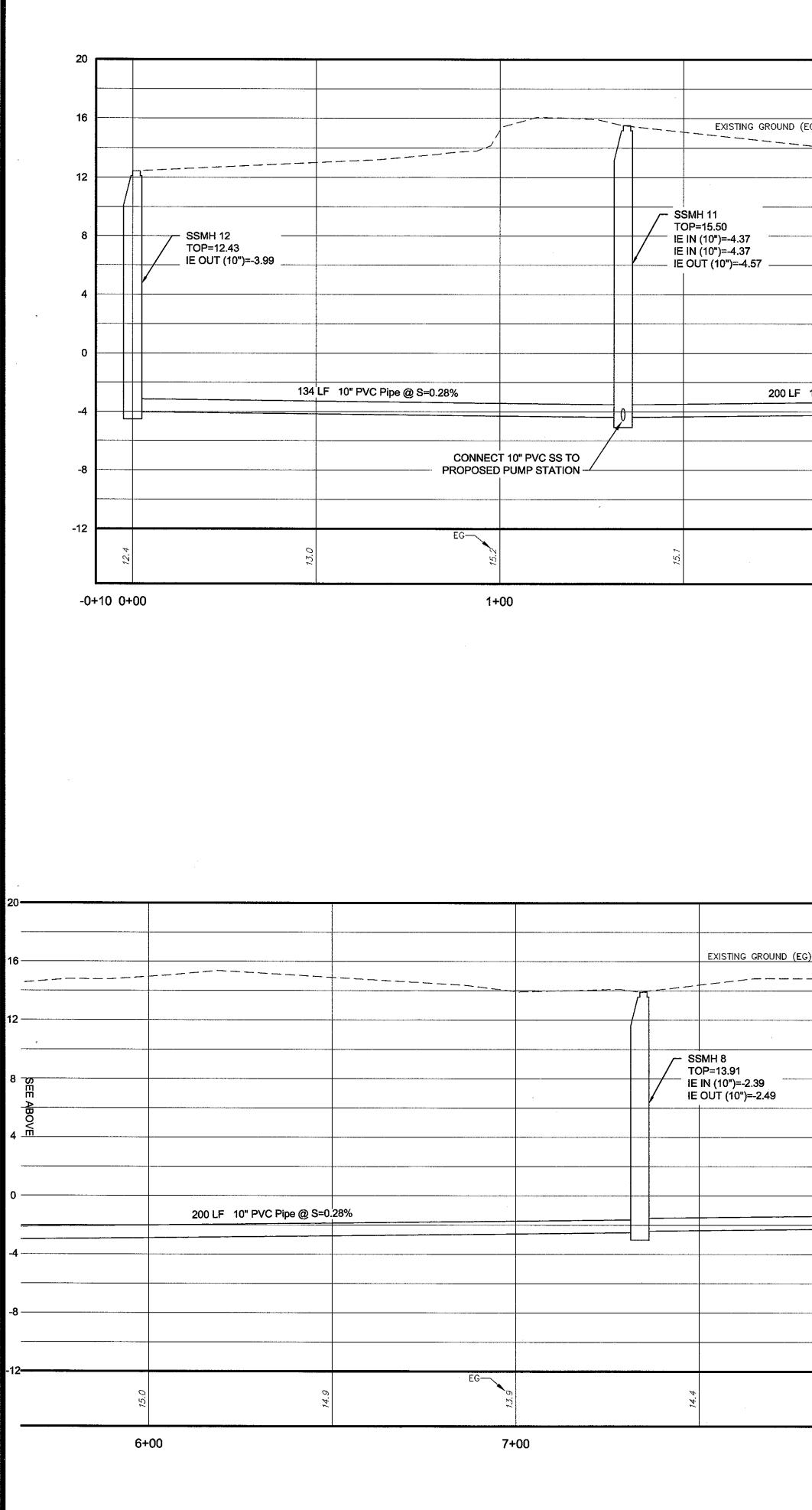


16" PVC WATERMAIN, TYP –	N EMILY BAL PIN: 0	I/F DHAM WOOD 4770001 E	BLADEN FINE SAND	Y LOAM		
		<u> </u>				
6"W	4717+00 CCCCC 	— 16"W —		—— 16"W ————		16"W + + + + + + + + + + + + + + + + + + +
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	LIMITS OF DISTUR	RBANCE				
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				ROAD 150' R	<u>R/W</u>	<u> </u>
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E SANDY LOAM	ΥΥΥΥΥΥΥΥΥΥΥΥΥΥ	N/F EMILY BADHAM WOOD PIN: 04770001	ΥΥΥΥΥΥΥΥΥΥ	ΥΥΥΥΥ	ŶŶĬŢĬ	, , , , ,
	WATERMAIN AND FOR HORZ SCALE = VERT SCALE =	20				
						L ITCH
		3' MIN. COV	ER			
				3	MIN. COVER	
			16" PVC WATERMAIN, 1	үр_/		
		1				

71+00

72+00

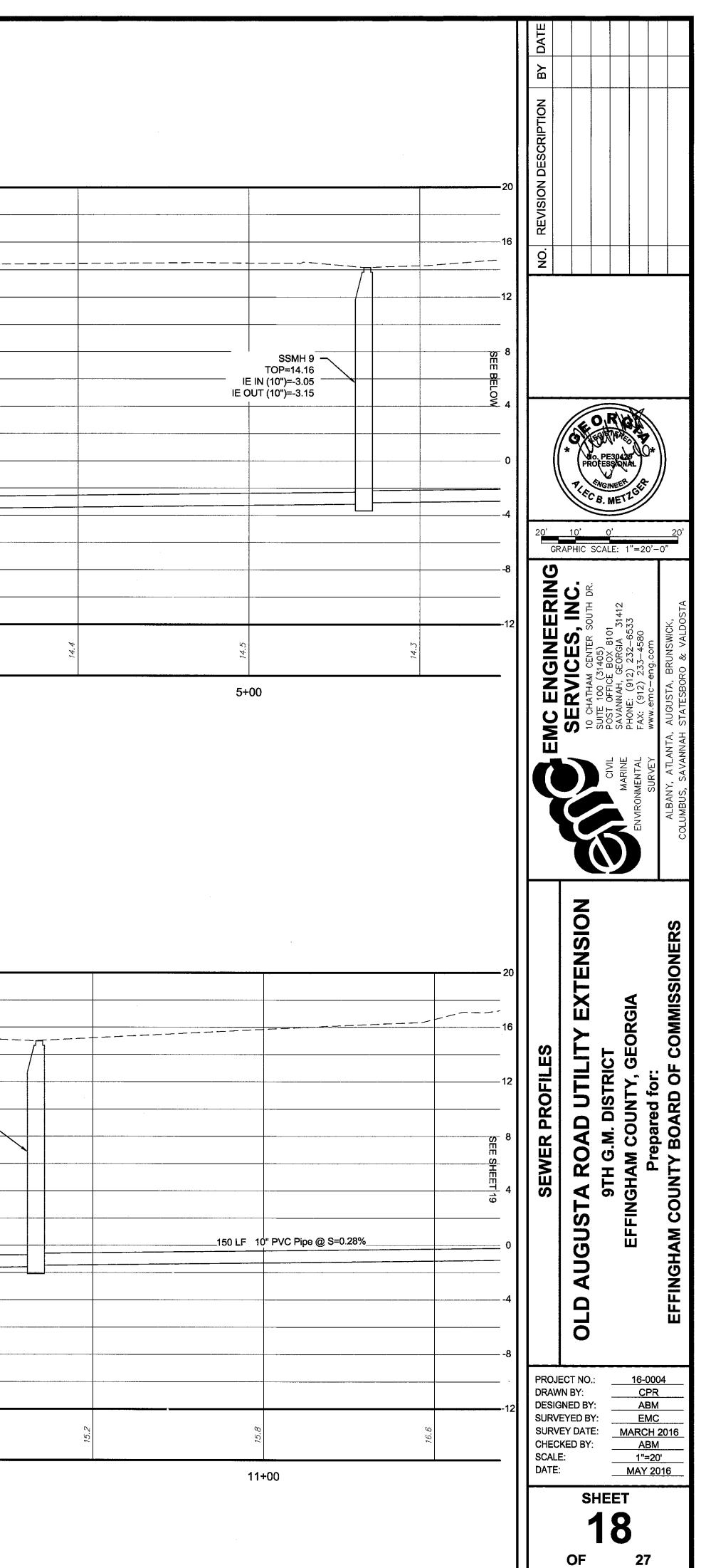


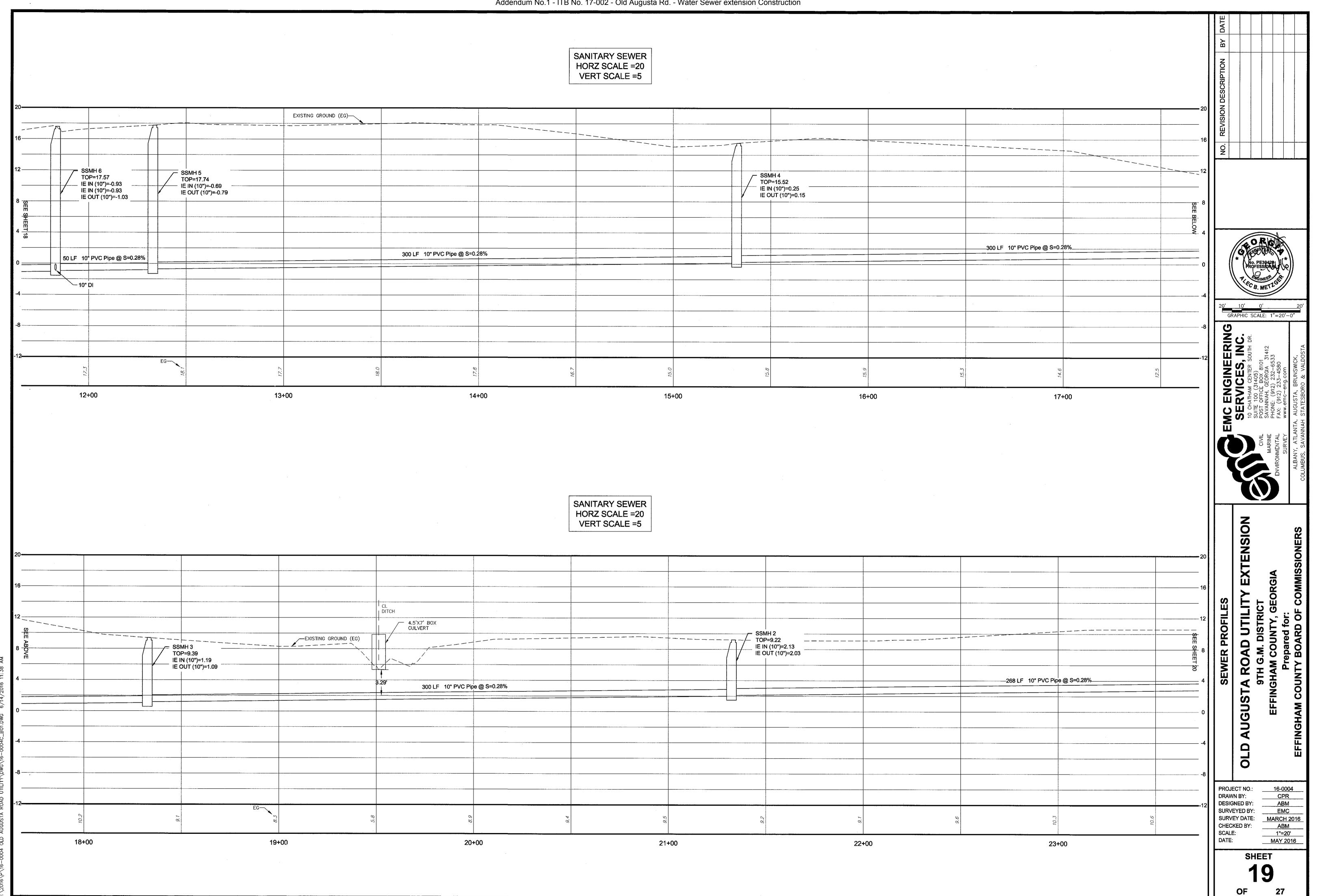


		SANITARY SEWER HORZ SCALE =20 VERT SCALE =5			
		×			
(50)					
(EG)					
	h A A		/		
	<u> </u>	EXISTING STORM PIPES			
				SMH 10 DP=12.56 IN (10")=-3.71 OUT (10")=-3.81	
	14.11'				
10" PVC Pip	e @ S=0.28%			200 LF 10" PV	C Pipe @ S=0.28%
	1 JOINT DI SS UNDER STORM PIPES				
14.0		15.2 13.3	12.9	13. 9	
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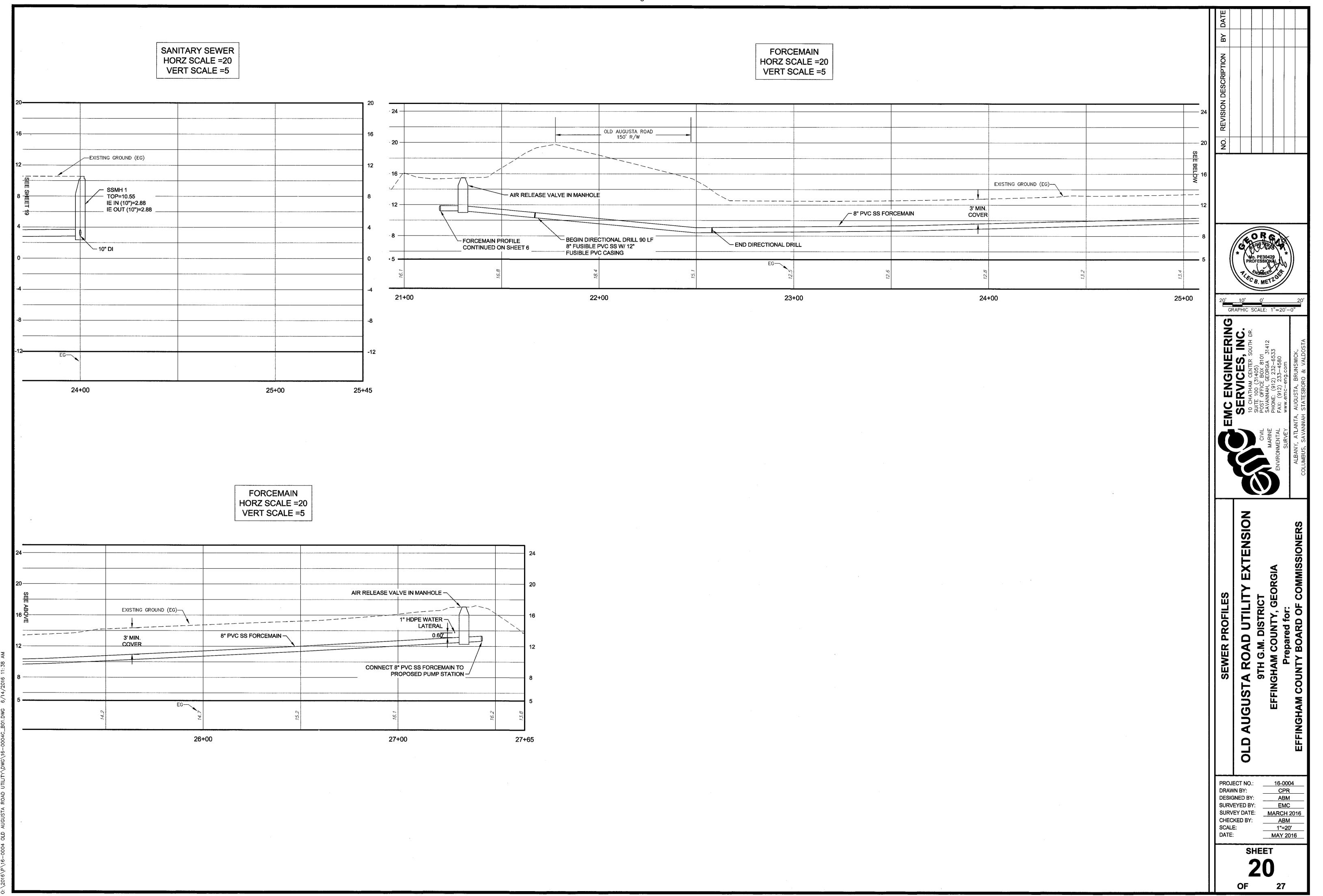
SANITARY SEWER HORZ SCALE =20 VERT SCALE =5

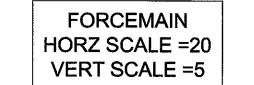
8+1	00	9+	00	10+00		
15.2	15.9	16.0	16.1	15.4		
					·····	
		300 LF 10" PVC Pipe @ S=0.	28%			
					10")=-1.55	
					OP=14.99 10")=-1.45 10")=-1.55	
					SSMH 7	
EG)						
				-		

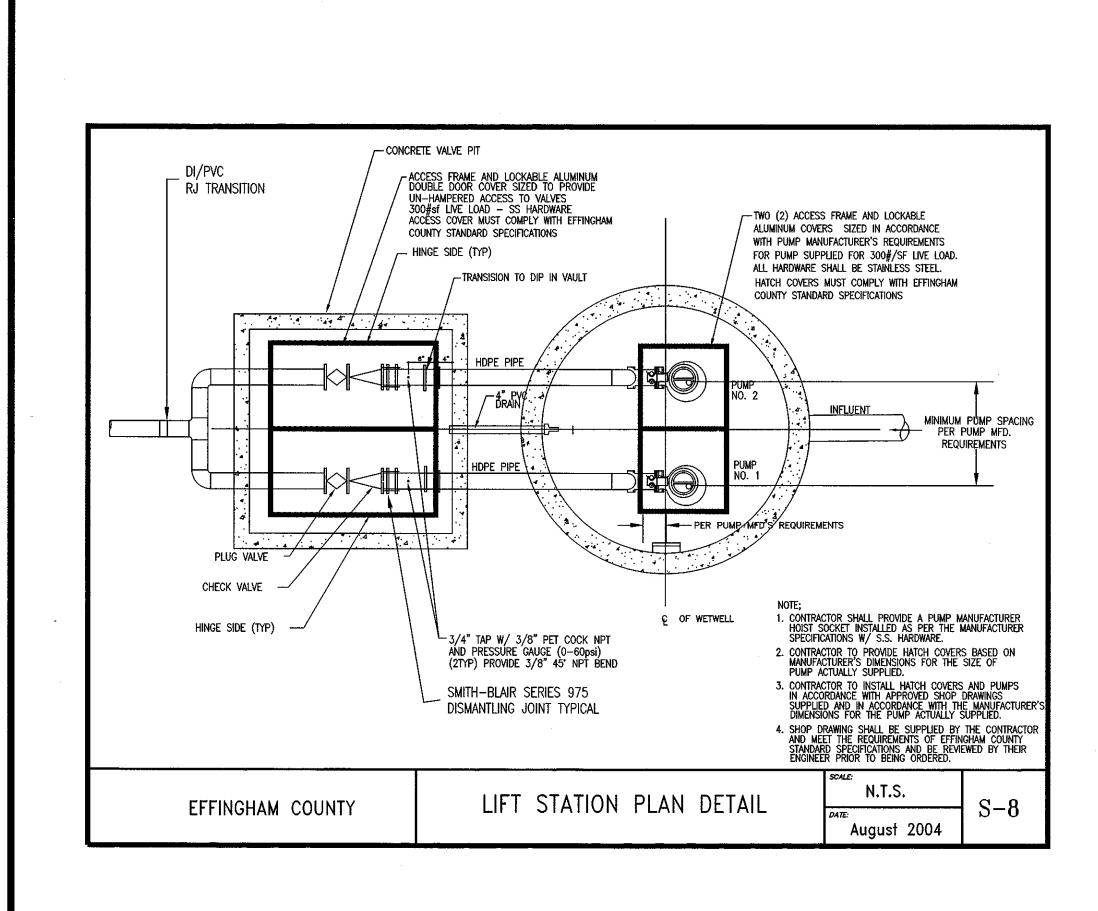


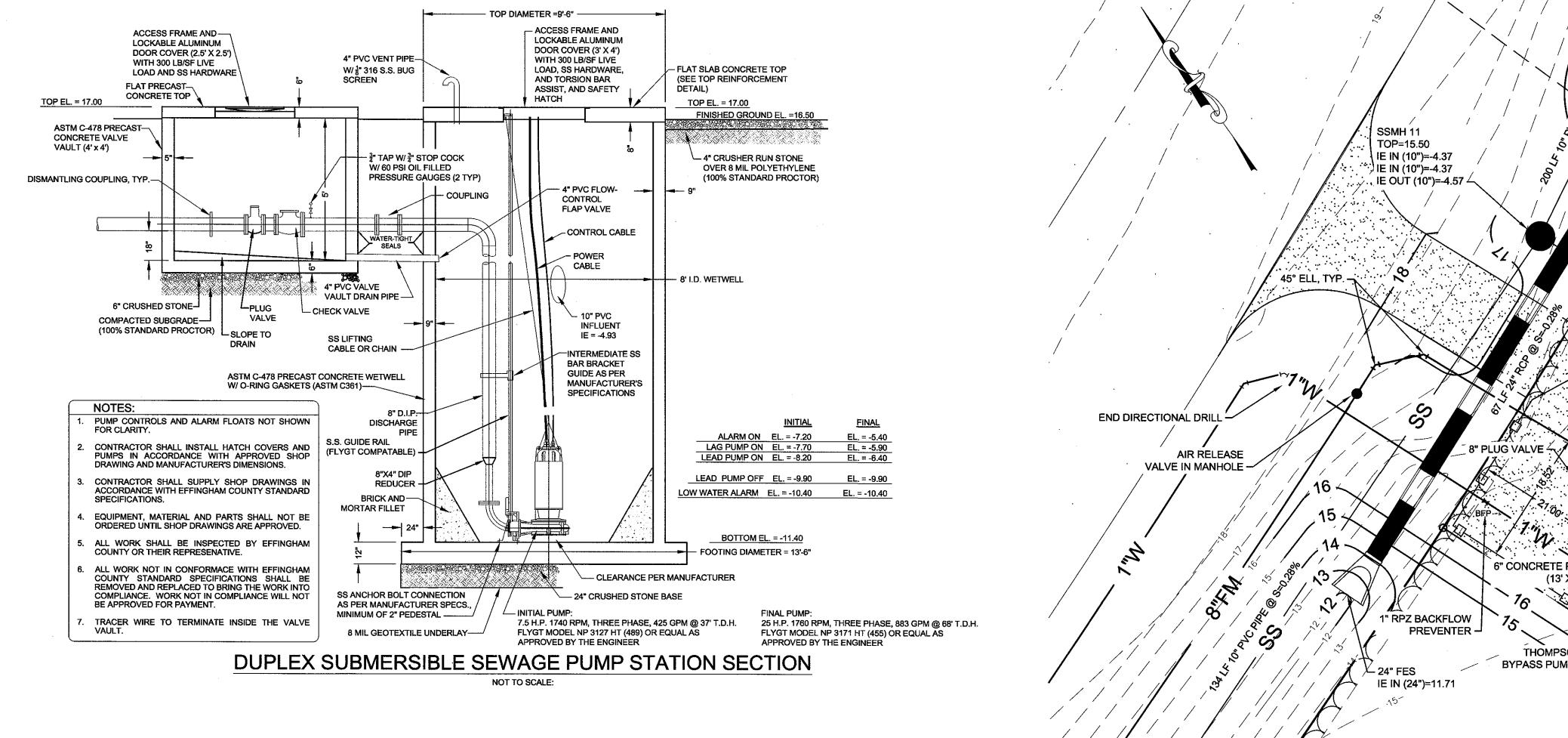


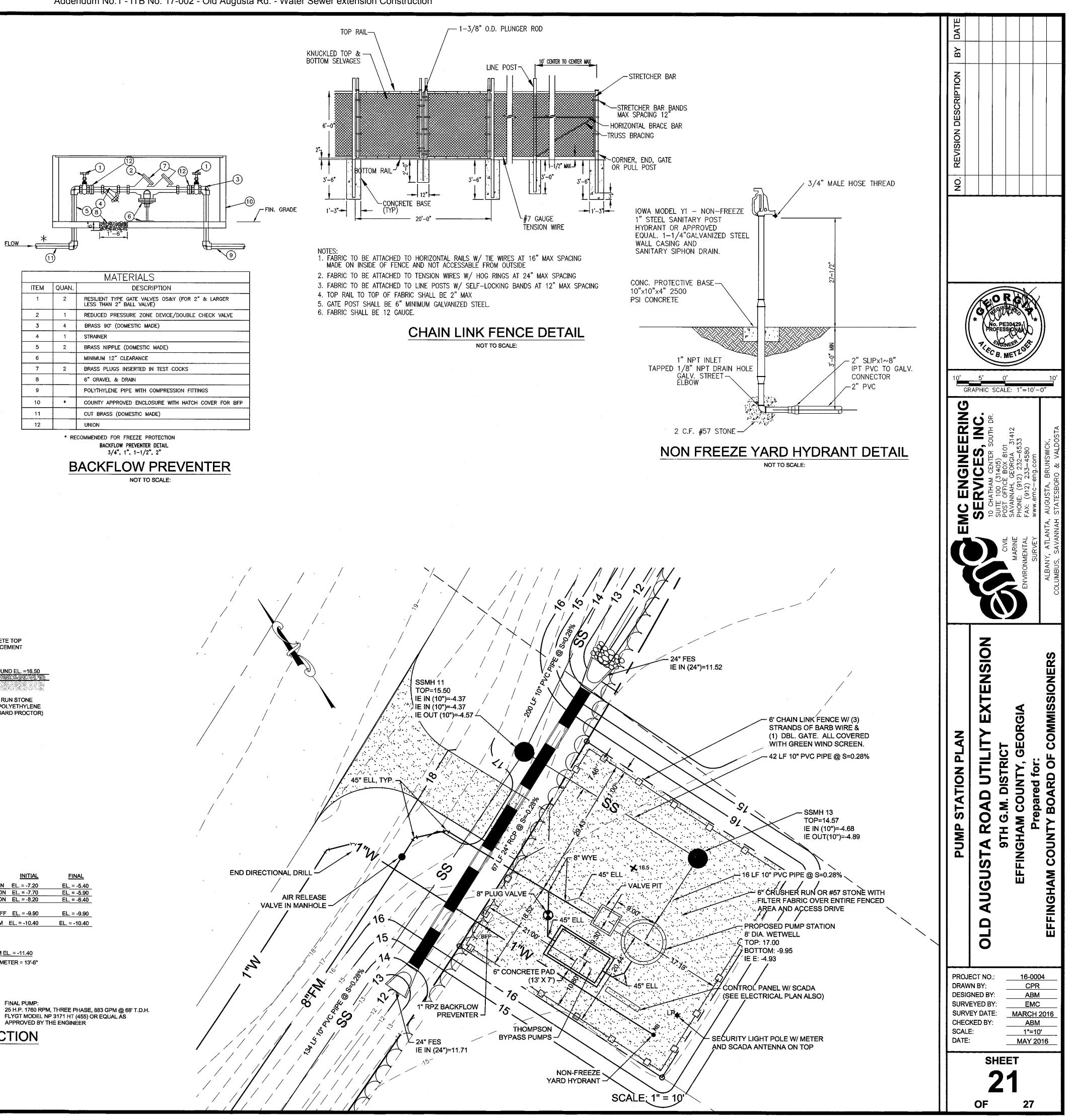
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F 10" PVC Pip	e @ S=0.28%				
				TOP=9.22 IE IN (10")=2.13 IE OUT (10")=2.03	
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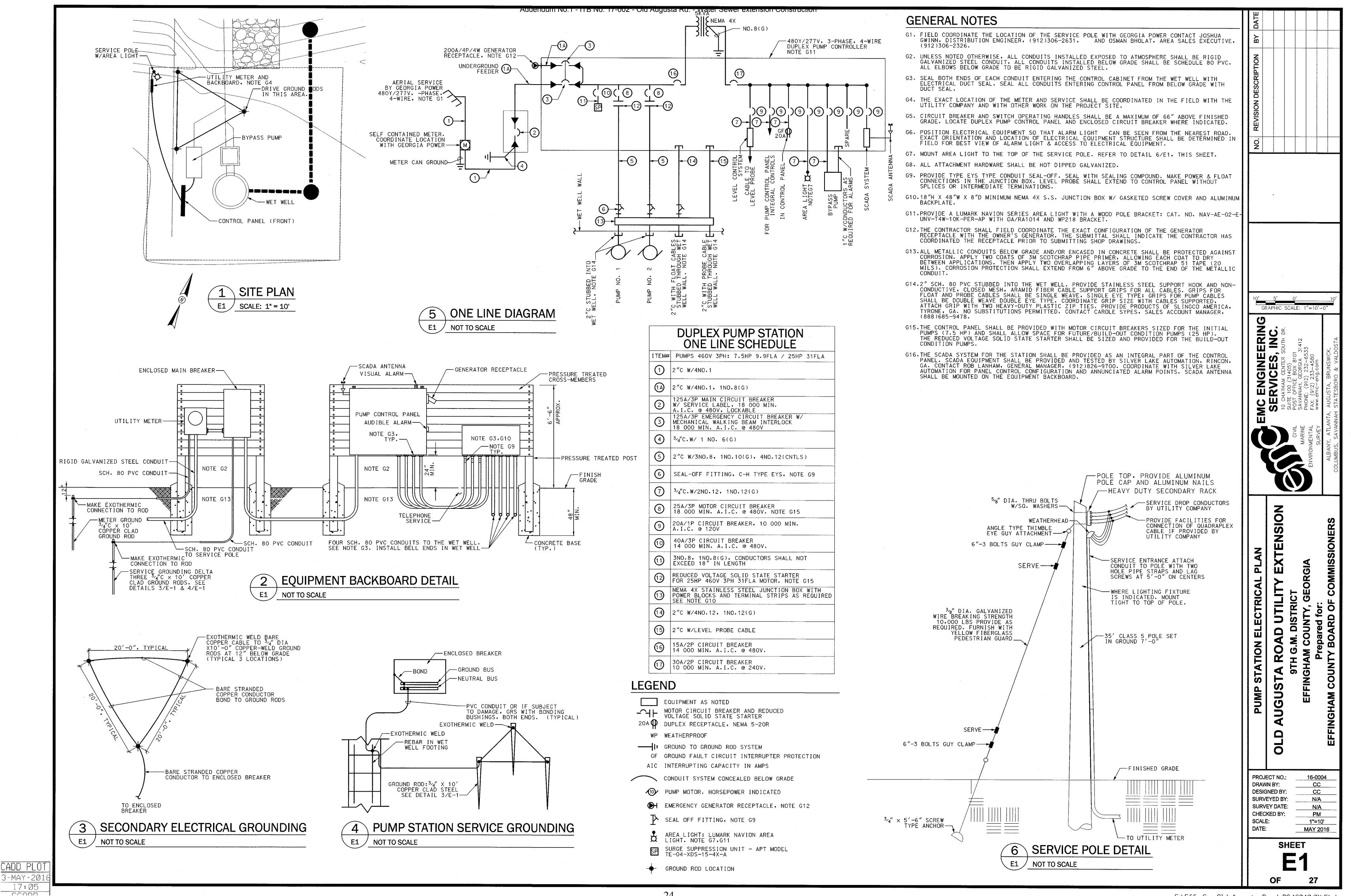












F:\Eff. Co. 01d Augusta Road PS.16040.01\E1.don

GENERAL ES&P CONTROL NOTES	PG 23 YES 11	DESIGN PROFESSIONAL'S CERTIFICATION STATEMENT AND SIGNATURE THAT THE SITE WAS VISITED PRIOR TO DEVELOPMENT OF THE ES&PC PLAN AS STATED ON PAGE 15 OF THE PERMIT.	PG 23 YES 26.	DESCRIPTION OF TI WATER THAT WILL
PROJECT NAME: OLD AUGUSTA ROAD UTILITY EXTENSION ADDRESS: OLD AUGUSTA ROAD CITY/COUNTY: EFFINGHAM COUNTY DATE ON PLANS: MAY 2016		I CERTIFY, UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.		POST CONSTRUCTI DURING THE CONST CONSTRUCTION OF WATER RELEASED OUTFALLS, SHALL F
 <u>STANDARDS AND SPECIFICATIONS</u>: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED, "MANUAL FOR EROSION AND SEDIMENT 	PG 23 YES 12	DESIGN PROFESSIONAL'S CERTIFICATION STATEMENT AND SIGNATURE THAT THE PERMITTEE'S ES&PC PLAN PROVIDES FOR AND APPROPRIATE AND COMPREHENSIVE SYSTEM OF BMPS AND SAMPLING TO MEET PERMIT REQUIREMENTS AS STATED ON PAGE 15 OF THE PERMIT.*	PG 23 YES 27.	OF THE WATER COL
 <u>EROSION CONTROL PROGRAM</u>: CLEARING WILL BE KEPT TO AN ABSOLUTE MINIMUM. VEGETATION AND MULCH WILL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER EXCAVATION IS COMPLETED. LAND-DISTURBING WILL BE SCHEDULED TO LIMIT EXPOSURE OF BARE SOILS TO EROSION ELEMENTS. STORM WATER MANAGEMENT STRUCTURES WILL BE EMPLOYED TO PREVENT EROSION IN AREAS OF CONCENTRATED WATER FLOWS. <u>SEDIMENT CONTROL PROGRAM</u>: SEDIMENT CONTROL WILL BE ACCOMPLISHED BY INSTALLING BEST MANAGEMENT PRACTICES THAT ARE CONSISTENT WITH AND NO LESS STRINGENT THAN THE MANUAL FOR EROSION AND SEDIMENT 	,	I CERTIFY, THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA," (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100002.		HAZARDOUS WASTI FEDERAL REGULAT RESPONSIBLE FOR SAFETY DATA SHEE OBTAINED AND USE WILL BE POSTED IN MAINTAINED IN THE WITH HAZARDOUS I MSDS FOR THE PRO
CONTROL IN GEORGIA. PLANS HAVE BEEN PHASED INTO INITIAL SEDIMENT STORAGE AND PERIMETER CONTROL BMP'S, INTERMEDIATE GRADING AND DRAINAGE BMP'S AND FINAL BMP'S. ALL BMP'S HAVE BEEN LABELED ON PLANS USING THE UNIFORM CODING SYMBOLS FROM THE MANUAL. (SEE LEGEND)		GSWCC LEVEL II CERTIFIED DESIGN PROFESSIONAL		THE CONTRACTOR AND WILL TRAIN AL
4. <u>MAINTENANCE PROGRAM</u> : SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED DAILY. ANY DAMAGES OBSERVED WILL BE REPAIRED BY THE END OF THAT DAY, CLEANOUT OF SEDIMENT CONTROL STRUCTURES WILL BE	PG 23 YES 13	REPRESENTATIVE SAMPLING AS STATED ON PAGE 26 OF THE PERMIT AS APPLICABLE.		OR HAZARDOUS WA STORM WATER DIS REGULATIONS ARE
ACCOMPLISHED IN ACCORDANCE WITH THE SPECIFICATIONS AND SEDIMENT DISPOSAL ACCOMPLISHED BY SPREADING ON THE SITE. SEDIMENT BARRIERS WILL REMAIN IN PLACE UNTIL SEDIMENT CONTRIBUTING AREAS ARE STABILIZED. THE SEDIMENT BARRIERS WILL THEN BE REMOVED AND THE AREAS OCCUPIED BY THESE AREAS WILL THEN BE VEGETATED. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE OWNER.		I CERTIFY, THAT THE PERMITTEE'S ES&PC PLAN PROVIDES FOR THE MONITORING OF: (A) 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 (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGEMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR 100002, THAT THE INCREASE IN TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER.		SUPERINTENDENT
PG 23 YES 1. THE APPLICABLE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN CHECKLIST ESTABLISHED BY THE COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED.	PG 23 YES 14			DISCHARGE IS NEG PLASTIC SKID CONT LOCATION OF SANIT
PG 23 YES 2. LEVEL II CERTIFICATION NUMBER ISSUED BY THE COMMISSION, SIGNATURE AND SEAL OF THE CERTIFIED DESIGN PROFESSIONAL.		THE INITIAL SEDIMENT STORAGE REQUIREMENTS, PERIMETER CONTROL BMPS AND SEDIMENT BASINS IN ACCORDANCE WITH PART IV.A.5 WITHIN 7 DAYS AFTER INSTALLATION."* THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE		FERTILIZER/HERBIC
GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION		REQUIREMENTS, PERIMETER CONTROL BMPs AND SEDIMENT BASINS IN ACCORDANCE WITH PART IV.A.5 WITHIN 7 DAYS AFTER INSTALLATION.		THE GUIDELINES SE ANY STORAGE OF T PAINTS/FINISHES/SO
Alec B Metzger	· · · · ·	DESIGN PROFESSIONAL 7 DAY CERTIFICATION.		PRODUCT WILL NOT PRODUCTS AND PR RECOMMENDATION
Level II Certified Design Professional		DATE OF INSPECTION:		BUILDING MATERIAI WILL BE DISPOSED
CERTIFICATION NUMBER 0000008757 ISSUED: 04/11/2015 Expires: 04/11/2018		GSWCC LEVEL II CERTIFIED DESIGN PROFESSIONAL CERTIFICATION #		POLLUTION CONTRO A SECTION 404 PER
Signature: Merk. Met		INSPECTION REVEALED THE FOLLOWING DISCREPANCIES FROM THE ES&P CONTROL PLAN		MAY HAVE DISCHAR WASTE MATERIALS DUMPSTER WILL ME
PG 23 YES 3. THE NAME AND PHONE NUMBER OF THE 24-HOUR LOCAL CONTACT RESPONSIBLE FOR EROSION, SEDIMENTATION AND POLLUTION CONTROLS.		THESE DISCREPANCIES MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED. AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BYT HE DESIGN PROFESSIONAL.	PG 23 YES 28.	DEPOSITED IN THE I TRASH WILL BE HAL WILL BE INSTRUCTE JOBSITE AND THE C DESCRIPTION AND (
24 HOUR CONTACT INFORMATION OF CIVIL SITE WORKER. EMC ENGINEERING SERVICES, INC. ALEC B. METZGER, PE 10 CHATHAM CENTER SOUTH, SUITE 100	PG 23 YES 15.	CLEARLY NOTE THE STATEMENT THAT "NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS."	· · ·	PORTIONS OF THE S ACTIVITIES, UTILITY
SAVANNAH, GEORGIA 31412 (912) 232-6533 PG 23 YES 4. PROVIDE THE NAME, ADDRESS AND PHONE NUMBER OF PRIMARY PERMITTEE.		NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN ANY REQUIRED 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS ACCORDING TO PART IV (i) AND (ii) OF THE GENERAL PERMIT.		
24 HOUR CONTACT INFORMATION OF OWNER/PRIMARY PERMITTEE. EFFINGHAM COUNTY BOARD OF COMMISSIONERS	N/A NO 16.	PROVIDE A DESCRIPTION OF ANY BUFFER ENCROACHMENTS AND INDICATE WHETHER A BUFFER VARIANCE IS REQUIRED.		ACTIVITY CONSTRUCTION EXIT
TOSS ALLEN 601 NORTH LAUREL STREET SPRINGFIELD, GEORGIA 31329	PG 23 YES 17.	THERE ARE NO BUFFER ENCROACHMENTS ON THIS PROJECT. CLEARLY NOTE THE STATEMENT THAT "AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A		SEDIMENT BARRIER
(912) 727-2920 PG 23 YES 5. NOTE TOTAL AND DISTURBED ACREAGE OF THE PROJECT OR PHASE UNDER CONSTRUCTION.		HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL."* AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPS WITH A HYDRAULIC COMPONENT MUST BE		MAINTENANCE OF ES
THE TOTAL AREA OF THIS PROJECT IS ±4.72 ACRES. THE TOTAL DISTURBED AREA FOR THIS PROJECT IS ±4.72 ACRES.	PG 23 YES 18.	CERTIFIED BY THE DESIGN PROFESSIONAL. CLEARLY NOTE THE STATEMENT THAT "WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT."*		CLEARING AND GRUE
PG 23 YES 6. PROVIDE THE GPS LOCATIONS OF THE BEGINNING AND END OF THE INFRASTRUCTURE PROJECT. GIVE THE LATITUDE AND LONGITUDE IN DECIMAL DEGREES. BEGINNING OF PROJECT END OF PROJECT		WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.		UTILITY CONSTRUCTI
LATITUDE: 32.24389 LONGITUDE: 81.20167 LONGITUDE: 81.20167	PG 23 YES 19.	CLEARLY NOTE STATEMENT THAT "THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES."		DISTURBED AREA ST (WITH TEMPORARY S
PG 23 YES 7. INITIAL DATE OF THE PLAN AND THE DATES OF ANY REVISIONS MADE TO THE PLAN INCLUDING THE ENTITY WHO REQUESTED THE REVISIONS.		THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.		DISTURBED AREA ST (WITH PERMANENT V
INITIAL DATE OF THE PLAN IS MAY. SEE INDIVIDUAL SHEET REVISION BLOCK FOR CHANGES. PG 23 YES 8. DESCRIPTION OF THE NATURE OF CONSTRUCTION ACTIVITY.	PG 23 YES 20.	CLEARLY NOTE STATEMENT THAT "EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE."	es	
DESCRIPTION: THE PROJECT IS LOCATED ON OLD AUGUSTA ROAD BETWEEN HIGHWAY 21 AND ABERCORN ROAD IN EFFINGHAM COUNTY, GEORGIA. THE SITE IS CURRENTLY A PAVED ROAD WITH GRADED SHOULDER. IT IS THE INTENTION OF THE OWNER TO EXTEND A WATER MAIN, SEWER FORCE MAIN AND GRAVITY SEWER ALONG OLD AUGUSTA ROAD. THE OWNER ALSO INTENDS TO INSTALLA WATER DATATION ON OLD AUGUSTA ROAD TO THE OWNER ALSO INTENDS TO		EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.	PG 23 YES 29.	PROVIDE COMPLETE
INSTALL A PUMP STATION ON OLD AUGUSTA ROAD TO SERVICE SEVERAL ADJACENT PROPERTIES. VEGETATION: THE SITE CONSISTS OF SPARSE VARIOUS VEGETATION INCLUDING SOME TREES AND GRASSED AREAS IN FAIR CONDITION.	PG 23 YES 21.	CLEARLY NOTE THE STATEMENT "ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING."		CERTIFIED PERSONI
PG 23 YES 9. PROVIDE VICINITY MAP SHOWING SITE'S RELATION TO SURROUNDING AREAS. INCLUDE DESIGNATION OF SPECIFIC PHASE, IF NECESSARY.		ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.		A. EACH DAY PERSONNEI PETROLEUM
The second secon	N/A NO 22.	UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT, OR WITHIN TEINEAR MILE III. C. OF THE PERMIT. INCLUDE THE COMPLETED APPENDIX 1 LISTING ALL THE BMPS THAT WILL BE USED FOR THOSE AREAS OF THE SITE WHICH DISCHARGE TO THE IMPAIRED STREAM SEGMENT.*		LOCATIONS SEDIMENT T B. MEASURE NON-WORKI
NPDES SAMPLING LOCATION	N/A NO 23.	PROJECT DOES NOT DISCHARGE STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT IF A TMDL IMPLEMENTATION PLAN FOR SEDIMENT HAS BEEN FINALIZED FOR THE IMPAIRED STREAM SEGMENT (IDENTIFIED IN ITEM 21		SUSPENDED VEGETATIO C. CERTIFIED F
ANDA KRAN		ABOVE) AT LEAST SIX MONTHS PRIOR TO SUBMITTAL OF NOI, THE ES&PC PLAN MUST ADDRESS ANY SITE-SPECIFIC CONDITIONS OR REQUIREMENTS INCLUDED IN THE TMDL IMPLEMENTATION PLAN.*		(7) CALEND/ STORM EN NON-WORK
YOUT CHARTER THE THE	PG 23 YES 24.	BMPS FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER CHUTES, HOPPERS AND THE REAR OF THE VEHICLES. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.*		DAY AND/OF SITE; (B) AR (C) STRUCT THE PRIMAF
SITE		CONCRETE WASHDOWN - NO CONCRETE TRUCKS, MIXER CHUTES, HOPPERS, TOOLS, NOR THE REAR OF VEHICLES WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.		LOCATIONS ARE EFFEC FINAL STAB
	PG 23 YES 25.	PROVIDE BMP'S FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS. <u>SOIL CLEANUP AND CONTROL PRACTICES:</u> LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE		FOR THE RENOTICE OF
		CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MAPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY ALL SPILLS WILL BE REPORTED AS RECUIRED		D. CERTIFIED F OF THIS PER FINAL STABI FOR THE RE DRAINAGE S SHALL BE C
VICINITY MAP		BY LOCAL, STATE, AND FEDERAL REGULATIONS. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NRC WILL BE CONTACTED WITH IN 24 HOURS AT 1-800-426-2675. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE		ACCESSIBLE PREVENTING
N.T.S. PG 23 YES 10. IDENTIFY THE PROJECT RECEIVING WATERS AND DESCRIBE ALL SENSITIVE ADJACENT AREAS INCLUDING STREAMS, LAKES		SPILL WILL BE CLEANED UP AN LOCATE AGENCIES WILL BE CONTACTED AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.		E. BASED ON MEASURES APPROPRIA CHANGES S INSPECTION
RECEIVING WATERS: INITIAL RECEIVING WATERS AND DESCRIBE ALL SENSITIVE ADJACENT AREAS INCLUDING STREAMS, LAKES RESIDENTIAL AREAS WETLANDS, ETC. WHICH MAY BE AFFECTED. RECEIVING WATERS: INITIAL RECEIVING WATER(S) IS THE SAVANNAH RIVER, WHICH SUPPORTS WARM WATER FISHERIES.		PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY OF LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FORM STATE WATERS, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINENT LINER TO PREVENTATIVE MAINTENANCE OF		F. A REPORT DATE(S) OF TO THE IM
ADJACENT PROPERTY: NORTH: N/F MILLIKEN FORESTRY SOUTH: N/F CLAUDE M & ELIZABETH E KICKLIGHTER EAST: N/F EMILY WOOD BADHAM WEST: N/F EMILY WOOD BADHAM		DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.		ACCORDANC A DESIGNAT PHASED HAS BE READILY BEST MANAC WHERE THE
				BEST MANAC REPORT SHA

016/P/16-0004 OLD AUGUSTA ROAD UTILITY/DWG/16-0004_C01.DWG 5/20/2016 12:22

HE MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM DOCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED.*

ON POLLUTANT CONTROL MEASURES: EROSION SEDIMENTATION AND POLLUTION CONTROL MEASURES INSTALLED RUCTION PROCESS, SHALL SERVE TO CONTROL POLLUTANTS ENTERING INTO THE STORM WATER SYSTEM AFTER ERATIONS HAVE BEEN COMPLETED. THESE MEASURES SHALL INCLUDE RIP RAP OUTLET PROTECTION. THE STORM WILL MAINTAIN PRE-DEVELOPMENT RUN-OFF RATES AS WELL AS FLOW PATTERNS. RIP RAP, LOCATED AT ALL 'ROVIDE A NON-EROSIVE FLOW SO THAT THE NATURAL PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS JRSE ARE MAINTAINED AND PROTECTED (AS SUBJECT TO SECTION 404 OF THE FEDERAL CLEAN WATER ACT).

HE PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES.*

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

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

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

TE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER JGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED AINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE ARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN BY THE CONTRACTOR ONCE THE EEN DETERMINED.

DE - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPEC. OR ABOVE T FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GA. HESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

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

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

<u>AL PROGRAM:</u> WASTE MATERIAL SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY MIT. THE STORM WATER DETENTION FACILITY AND PERMANENT BMPS SHALL HELP PREVENT ANY POLLUTANTS, THAT GED INTO THE STORM DRAINAGE SYSTEM, FROM ESCAPING THE SITE.

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

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

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

<u>LECORD KEEPING</u>: CONSTRUCTION ACTIVITIES WILL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, L LAWS, RULES, AND REGULATIONS. CONSTRUCTION SITE MUST BE INSPECTED DAILY, WEEKLY, AND MONTHLY BY IEL. RECORDS OF INSPECTIONS MUST BE KEPT IN ACCORDANCE WITH PART IV.D.4.A OF THE GENERAL PERMIT.

WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKE PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE RACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

RAINFALL ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKIING SATURDAY, NON-WORKING SUNDAY AND NG FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE) IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL N AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN IN DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH DS AFTER 5:00PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NG FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION EAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND JRAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO Y PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES TVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE LIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE EGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A TERMINATION IS SUBMITTED.

ERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM MIT (I.E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE LIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE GION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN BSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN B SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS I'E NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH HALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH

DF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING PLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN 22 WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT ED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN 3 UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF SEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE SEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE ALL BE SIGNED IN ACCORDANCE WITH PAR V.G.2. OF THIS PERMIT.

	DRAW DESIG SURVE SURVE	EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES			ON	REVISION DESCRIPTION	BY DATE
Sł	NED BY: EYED BY EY DATE KED BY: E:	OLD AUGUSTA ROAD UTILITY EXTENSION	SERVICES, INC. 10 CHATHAM CENTER SOUTH DR.	The second secon			
1EE 23		9TH G.M. DISTRICT	CIVIL POST OFFICE BOX 8101				
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27	16-00 CPF ABM ABM N/A AY 20	Prenared for:	ENVIRONMENTAL FAX: (912) 233-4580 SURVEY www.emc-eng.com	and an			
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		EFFINGHAM COUNTY BOARD OF COMMISSIONERS	COLUMBUS, SAVANNAH STATESBORO & VALDOSTA				

PG 24 YES 30.	PROVIDE COMPLETE REQUIREMENTS OF SAMPLING FREQUENCY AND REPORTING OF SAMPLING RESULTS.	
	SAMPLING FREQUENCY: 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.	
	SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:	
	A. FOR EACH AREA OF THE SITE THAT DISCHARGES INTO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THE GENERAL PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO	
	COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE REPRESENTATIVE SAMPLING LOCATION; B. IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THE GENERAL PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOTICE OF TERMINATION	·
	(NOT), IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRS;	
	C. AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPs IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS* UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVEN INSPECTIONS DETERMINE THAT BMPs ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;.	
-	D. WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS (A), (B) OR (C) ABOVE; AND	
	E. EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.	
	*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.	
1.	REPORTING: THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. OF THE GENERAL PERMIT BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THE GENERAL PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THE GENERAL PERMIT. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THE GENERAL PERMIT.	
2.	ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION: A. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;	
	 B. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS; C. THE DATE(S) ANALYSES WERE PERFORMED; D. THE TIME(S) ANALYSES WERE INITIATED; 	PG 24 YES
	 E. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES; F. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; G. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS; H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU"; AND I. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN. 	
3.	ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THE GENERAL PERMIT.	PLAN YES
	THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT THE DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THE GENERAL PERMIT. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.	PLAN YES
PG 24 YES 31.	PROVIDE COMPLETE DETAILS FOR RETENTION OF RECORDS AS PER PART IV.F OF THE PERMIT.	
	RETENTION OF RECORDS: THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THE GENERAL PERMIT: A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;	PLAN YES
	 B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THE GENERAL PERMIT; C. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV. D.4.A. OF THIS PERMIT. D. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THE GENERAL PERMIT; E. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THE GENERAL PERMIT. F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THE GENERAL PERMIT; AND 	N/A NO
	G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A(2). OF THE GENERAL PERMIT. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION	N/A NO
	AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THE GENERAL PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.	PG 4-6 YES
PG 24 YES 32.	DESCRIPTION OF ANALYTICAL METHODS TO BE USED TO COLLECT AND ANALYZE THE SAMPLES FROM EACH LOCATION.	N/A NO
	SAMPLING REQUIREMENTS: THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY. A. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:	N/A NO
	(1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO A S A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE INFRASTRUCTURE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS FOR EACH REPRESENTATIVE STORMWATER OUTFALL. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM	N/A NO PLAN YES PLAN YES PG 24 YES
	WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP; (2) A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT AND ANALYZE THE SAMPLES INCLUDING	
	QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION; (3) WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE	
	INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND	
	(4) ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.	
	B. SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES) AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD. (1.) SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.	
	(2.) SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.	
	THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.	
	(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 COOLED.	
	(5.) SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.	

		Add	endum No.1 - ITB No. 17-002 - Old Augusta Rd Water Sewer extension Construction					
				PLAN	YES 49.		N OF BEST I	MAI
		A	I). FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL PERENNIAL AND INTERMITTENT STREAMS ND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND ITERMITTENT STREAMS AND OTHER WATER BODIES, OR ALL OUTFALLS INTO SUCH STREAMS AND OTHER WATER BODIES,	PLAN	1E3 40.		AND SEDIN	
		OI PF	R A COMBINATION THEREOF. HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART IV.D.6.c.(2). OF THIS PERMIT, RIMARY PERMITTEES ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE PERENNIAL		VEG	SETA	TIVE	M
		TH	ND INTERMITTENT STREAMS, OTHER WATER BODIES OR OUTFALLS, OR A COMBINATION THEREOF. SAMPLES TAKEN FOR HE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND EPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE		CODE	PRAG	CTICE	
		FC	OLLOWING MINIMUM GUIDELINES:		(Sd1)		MENT	$\overline{}$
		(A)	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		Cd - H	HAY CHEC	BALE K DAM	
		(A)	THE UPSTREAM TURBIDITY VALUE. THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF			STORM		
		~ 7	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		St	OUT PROTE		
		·	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 DOWNSTREAM TURBIDITY VALUE.		Du	DUST CO	NTROL ON	
		(B)	IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING				ED AREAS	
			WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).		Ds1	DISTURB STABILIZAT MULCHIN	ION (WITH	,
		(C)	CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.			DISTURB	ED AREA ZATION	
		(D)	THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.		Ds2	(WITH TEI SEEL	MPORARY	-
		(E) (F)	THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS. PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS		Ds3	STABILI	ED AREA ZATION	
			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			(WITH PE VEGET	RMANENT ATION)	7
			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	PG 25-27	YES 50.		DETAILED DI	
			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	PG 24	YES 51.		VEGETATIVE FERTILIZER	
		(G)	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, WHICHEVER IS APPLICABLE.					
			THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES AIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.		MOI	NTH	TEMPO	RA
3	33.		RATIONALE FOR NTU VALUES AT ALL OUTFALL SAMPLING POINTS WHERE APPLICABLE.*		JANU	ARY	RYEGRAS	S
			ER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) OF THE OUTFALL LOCATION. A DISCHARGE OF STORM		FEBR	UARY	RYE ANNUAL RYEGRAS	
		AND MAINTAI	OFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, INED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY HARGE EXCEEDING 75, THE VALUE THAT WAS SELECTED FROM APPENDIX B IN GENERAL PERMIT. THE NTU IS BASED UPON		MAY		RYE WEEPING	
		THE DISTURB	BED ACREAGE OF 4.72 ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF 0.10-SQUARE MILES FOR SE BASIN, AND THE RECEIVING WATER THE SAVANNAH RIVER, WHICH SUPPORTS WARM WATER FISHERIES.			_, ., ., .,	ANNUAL	
5	34.		LL SAMPLING LOCATIONS, PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES INTO WHICH STORM		MAY		WEEPING SUDON (GR/
J	_	WATER IS DIS	SCHARGED.*		MAY	· · · · ·	BROWN WEEPING	L
3	35.	INITIAL SEDIM	ON OF APPROPRIATE CONTROLS AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE INCLUDING: (1) IENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS, (2) INTERMEDIATE GRADING AND DRAINAGE BMPS, AND PS. FOR CONSTRUCTION SITES WHERE THERE WILL BE NO MASS GRADING AND THE INITIAL PERIMETER CONTROL BMPS,				SUDON (BROWN	TOF
			E GRADING AND DRAINAGE BMPS, AND FINAL BMPS ARE THE SAME, THE PLAN MAY COMBINE ALL OF THE BMPS INTO A		JUNE	·	PEARL M PEARL M SUDON (11LL
8	36.	GRAPHIC SCA	ALE AND NORTH ARROW.		JULY		BROWN PEARL M	TOF
S	37.	EXISTING AND	D PROPOSED CONTOUR LINES WITH CONTOUR LINES DRAWN AT AN INTERVAL IN ACCORDANCE WITH THE FOLLOWING:				SUDON (BROWN	GR/
			Existing Contours USGS 1": 2000' Topographical Sheets Proposed Contours 1": 400' Centerline Profile		AUGL		PEARL M RYE	
	38.	USE OF ALTER	RNATIVE BMPS WHOSE PERFORMANCE HAS BEEN DOCUMENTED TO BE EQUIVALENT TO OR SUPERIOR TO CONVENTIONAL		<u>SEPT</u>	EMBER	RYEGRAS OATS	<u>;S</u>
			RTIFIED BY A DESIGN PROFESSIONAL (UNLESS DISAPPROVED BY EPD OR THE GEORGIA SOIL AND WATER CONSERVATION)). PLEASE REFER TO THE ALTERNATIVE BMP GUIDANCE DOCUMENT FOUND AT WWW.GASWCC.ORG.		ОСТС	BER	WHEAT WHEAT RYEGRAS	
		PLEASE REFE	ER TO THE ALTERNATIVE BMP GUIDANCE DOCUMENT FOUND AT WWW.GASWCC.ORG.				BARLEY	
	39.		RNATIVE BMP FOR APPLICATION TO THE EQUIVALENT BMP LIST. PLEASE REFER TO APPENDIX A-2 OF THE MANUAL FOR EDIMENT CONTROL IN GEORGIA 2016 EDITION.		NOVE	MBER	OATS SAME AS	
S	40,		I OF THE APPLICABLE 25-FOOT OR 50-FOOT UNDISTURBED BUFFERS ADJACENT TO STATE WATERS AND ANY ADDITIONAL QUIRED BY THE LOCAL ISSUING AUTHORITY. CLEARLY NOTE AND DELINEATE ALL AREAS OF IMPACT.		DECE	MBER	SAME AS	<u>} (</u>
		ALL STATE W	ATERS ON OR WITHIN 200 FEET FROM THE PROJECT SITE MUST BE DELINEATED ON ALL PHASES OF THE PLAN. ALL					
s	41.			UNSCAR SCARIFI				
	42.		Z.	CENTIPE	DE SOD CAN E EXCEPT JU			
	43.	DELINEATE O	N-SITE DRAINAGE AND OFF-SITE WATERSHEDS USING USGS 1":2000' TOPOGRAPHICAL SHEETS. 4. 5.	LISTED	IN THE ORDE	R OF PR	EFERENCE	Ξ.
	44.	AN ESTIMATE	OF THE RUNOFF COEFFICIENT OR PEAK DISCHARGE FLOW OF THE SITE PRIOR TO AND AFTER CONSTRUCTION ACTIVITIES					
	45.		N PIPE AND WEIR VELOCITIES WITH APPROPRIATE OUTLET PROTECTION TO ACCOMMODATE DISCHARGES WITHOUT ENTIFY/DELINEATE ALL STORM WATER DISCHARGE POINTS.					
5	46.		FOR THE PROJECT SITE AND THEIR DELINEATION.					
s	47.	THE LIMITS O	F DISTURBANCE FOR EACH PHASE OF CONSTRUCTION.					
S	48.		INIMUM OF 67 CUBIC YARDS OF SEDIMENT STORAGE PER ACRE DRAINED USING A TEMPORARY SEDIMENT BASIN, D DETENTION POND, AND/OR EXCAVATED INLET SEDIMENT TRAPS FOR EACH COMMON DRAINAGE LOCATION. SEDIMENT					
		SITE HAS BEE	OLUME MUST BE IN PLACE PRIOR TO AND DURING ALL LAND DISTURBANCE ACTIVITIES UNTIL FINAL STABILIZATION OF THE EN ACHIEVED. A WRITTEN JUSTIFICATION EXPLAINING THE DECISION TO USE EQUIVALENT CONTROLS WHEN A SEDIMENT TATTAINABLE MUST BE INCLUDED IN THE PLAN FOR EACH COMMON DRAINAGE LOCATION IN WHICH A SEDIMENT BASIN IS					
		NOT PROVIDE	ED. A WRITTEN JUSTIFICATION AS TO WHY 67 CUBIC YARDS OF STORAGE IS NOT ATTAINABLE MUST ALSO BE GIVEN. S FROM THE MANUAL MUST BE INCLUDED FOR STRUCTURAL BMPS AND ALL CALCULATIONS USED BY THE DESIGN					
		SEDIMENT BA	AL TO OBTAIN THE REQUIRED SEDIMENT STORAGE WHEN USING EQUIVALENT CONTROLS. WHEN DISCHARGING FROM ASINS AND IMPOUNDMENTS, PERMITTEES ARE REQUIRED TO UTILIZE OUTLET STRUCTURES THAT WITHDRAW WATER FROM E, UNLESS INFEASIBLE. IF OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE ARE NOT FEASABLE, A					
			E, UNLESS INFEASIBLE. IF OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE ARE NOT FEASABLE, A STIFICATION EXPLAINING THIS DECISION MUST BE INCLUDED IN THE PLAN.					
			ENT STORAGE:				SILT FE	ΞN
		CY/AC * 4.7	72-ACRES. THE REQUIRED SEDIMENT STORAGE VOLUME FOR THIS ACREAGE IS 67 '2-ACRES = 317 CY. THE SEDIMENT WILL BE TRAPPED BY PERIMETER SILT FENCE AND					
			SS WILL BE CAUGHT USING HAY BALE CHECK DAMS. STORAGE < AVAILABLE STORAGE			1.	DISTU	٦B
						2.	REQUI REQUI	
		HAY B	ALE CHECK DAM STORAGE CALCULATION				REQUI	
		_				3.	ASSUM	ΛE

- 1. DISTURBED AREA = <u>4.72</u> AC
- 2. REQUIRED SEDIMENT STORAGE = 67 CY/AC * DISTURBED AREA REQUIRED SEDIMENT STORAGE = 67 CY/AC * 4.72 AC REQUIRED SEDIMENT STORAGE = 317 CY = 8,559 CF
- 3. SEDIMENT TRAPPED BY SILT FENCE = <u>913 CY</u> REMAINDER OF SEDIMENT TO BE STORED = 317 913 = <u>0 CY</u>

NAGEMENT PRACTICES THAT ARE CONSISTENT WITH, AND NO LESS STRINGENT THAN, THE MANUAL FOR NT CONTROL IN GEORGIA. USE UNIFORM CODING SYMBOLS FROM THE MANUAL, CHAPTER 6, WITH

MEASURES AND STRUCTURAL PRACTICES

DETAIL	MAP SYMBOL	DESCRIPTION
	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 SEDIMENT FENCE.
	- T	A SMALL TEMPORARY BARRIER FORMED BY HAY BALES CONSTRUCTED ACROSS A SWALE, DRAINAGE DITCH OR AREA OF CONCENTRATED FLOW.
	8888 St	A PAVED OR SHORT SECTION OF RIPRAP CHANNEL AT THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION FROM THE CONCENTRATED RUNOFF.
	Du	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE, ROADWAYS AND SIMILAR SITES.
*	Ds1	ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWNING SEASON TO PRODUCE AN EROSION RETARDING COVER.
	Ds2	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
	Ds3	ESTABLISHING PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, SOD, OR LEGUMES ON DISTURBED AREAS.

WINGS FOR ALL STRUCTURAL PRACTICES. SPECIFICATIONS MUST, AT A MINIMUM, MEET THE GUIDELINES SET FORTH OSION AND SEDIMENT CONTROL IN GEORGIA.

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

SEEDING RATES FOR TEMPORARY & PERMANENT COVER

	INNIES I				
	RATE PE	R ACRE		RATE PE	IR ACRE
RARY COVER	SEEDED	ADDED	PERMANENT COVER	SEEDED	ADDED
	ALONE	ΤΟ ΜΙΧ		ALONE	το μιχ
S	40 LBS		UNHULLED BERMUDA	10 LBS	6 LBS
	3 BU	0.5 BU	SERLCEA LESPEDEZA (1)	75 LBS	
LESPEDEZA	40 LBS	10 LBS	UNHULLED BERMUDA	10 LBS	6 LBS
S	40 LBS		SERLCEA LESPEDEZA (1)	75 LBS	
	3 BU	0.5 BU			
LOVEGRASS	4 LBS	2 LBS	PENSACOLA BAHIA	60 LBS	30 LBS
LESPEDEZA	40 LBS	10 LBS	HULLED BERMUDA	10 LBS	6 LBS
			SERLCEA LESPEDEZA (2)	60 LBS	_
LOVEGRASS	4 LBS	2 LBS	PENSACOLA BAHIA	60 LBS	30 LBS
RASS	60 LBS		WEEPING LOVEGRASS	6 LBS	6 LBS
OP MILLET	40 LBS	10 LBS	HULLED BERMUDA	10 LBS	6 LBS
LOVEGRASS	4 LBS	2 LBS	PENSACOLA BAHIA	60 LBS	30 LBS
RASS	60 LBS		WEEPING LOVEGRASS	6 LBS	6 LBS
OP MILLET	40 LBS	10 LBS	HULLED BERMUDA	10 LBS	6 LBS
ILLET	50 LBS	—	SERLCEA LESPEDEZA (2)	60 LBS	-
ILLET	50 LBS		PENSACOLA BAHIA	60 LBS	30 LBS
RASS	60 LBS		HULLED BERMUDA	10 LBS	6 LBS
OP MILLET	40 LBS	10 LBS			
ILLET	50 LBS		PENSACOLA BAHIA	60 LBS	30 LBS
RASS	60 LBS				
OP MILLET	40 LBS	10 LBS			
ILLET	50 LBS		PENSACOLA BAHIA	60 LBS	30 LBS
	3 BU	0.5 BU			······································
S	40 LBS	_	SERLCEA LESPEDEZA (1)	75 LBS	
	4 BU	1 BU			
	3 BU	0.5 BU			
	3 BU	0.5 BU	SERLCEA LESPEDEZA (1)	75 LBS	_
S	40 LBS	_			
	3 BU	0.5 BU			
	3 BU	0.5 BU			
	4 BU	1 BU			
OCTOBER			UNHULLED BERMUDA	10 LBS	6 LBS
OCTOBER			UNHULLED BERMUDA	10 LBS	6 LBS
			1 CHARGELED DERMICE/		

NOTES:

1. FERTILIZING - APPLY 6-12-12 FERTILIZER AT THE RATE OF 35 POUNDS PER 1,000 SQUARE FEET, RAKING LIGHTLY INTO THE SOIL

POUNDS PER 1,000 SQUARE FEET, RAKING LIGHTLY INTO THE SOIL 2. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. THE AGRICULTURAL LIME SHALL MEET THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE. 3. DRY STAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE AND DRY HAY SHALL BE APPLIED E. 4. AT A RATE OF 2.5 TONS PER ACRE. HALL BE MULCHED. 5. WATER IMMEDIATLEY AFTER MULCHING.

NCE STORAGE CALCULATION

BED AREA = <u>4.72</u> AC

ED SEDIMENT STORAGE = 67 CY/AC * DISTURBED AREA ED SEDIMENT STORAGE = 67 CY/AC * 4.72 AC ED SEDIMENT STORAGE = 317 CY = 8,559 CF

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

4. SAmin = REQUIRED SEDIMENT STORAGE/ SEDIMENT DEPTH SAmin = <u>8,559</u> CF/ <u>0.75</u> FT

SAmin = <u>11,412</u> SF

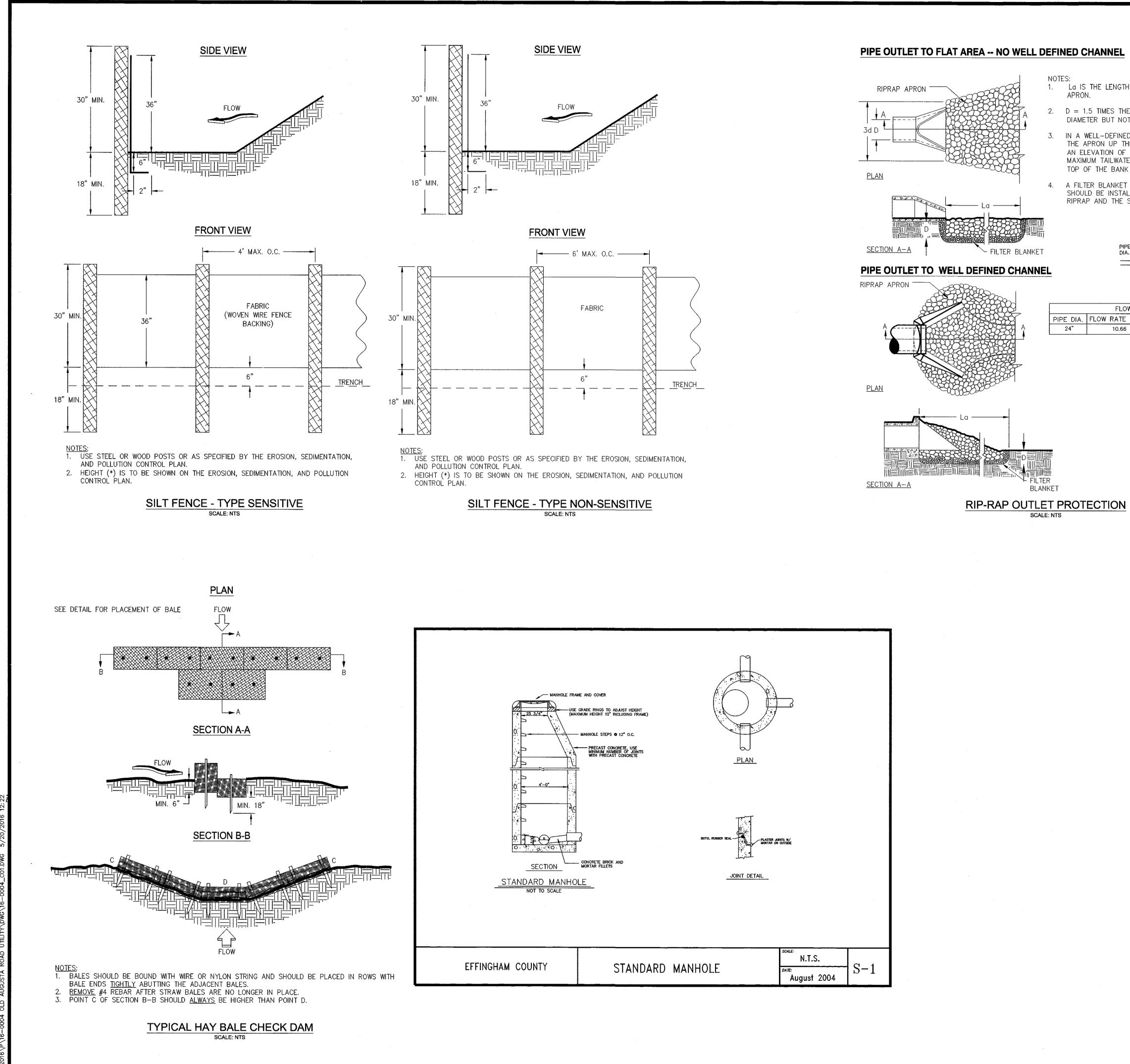
5. DETERMINE IF ADEQUATE SEDIMENT STORAGE AREA ALONG SILT FENCE IS POSSIBLE.

LENGTH OF SILT FENCE (L) = 10.958'DEPTH OF SEDIMENT (D) = 0.75'WIDTH OF SEDIMENT STORAGE AREA (W) = 3.0'

L x D x W = <u>24,655</u> CF

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

	Level II Cert CATION NUME 04/11/201	ec B Ma liffed De ser	e tzger sign Pro	fessio 00875	381 7
	244 29 29 29 29 29 29 29	D R D R D PE30 D FESSI B. M	G AN ANAL E	*))
EMC ENGINEERING	SERVICES, INC. 10 CHATHAM CENTER SOUTH DR.	CIVIL POST OFFICE BOX 8101	ENVIRONMENTAL FAX: (912) 233-4580	SURVEY www.emc-eng.com	ALBANY, ATLANTA, AUGUSTA, BRUNSWICK, COLUMBUS, SAVANNAH STATESBORO & VALDOSTA
EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES	OLD AUGUSTA ROAD UTILITY EXTENSION	9TH G.M. DISTRICT	EFFINGHAM COUNTY, GA	Prepared for:	EFFINGHAM COUNTY BOARD OF COMMISSIONERS
DRAW DESIG SURVI SURVI	ENED BY EYED BY EY DATE KED BY: E:		۲ ۸ ۲	-000 2PR \BM \BM \V/A Y 20	
		HEE 24	4	7	



PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL

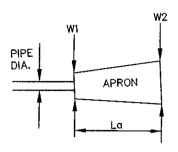
27

1. La IS THE LENGTH OF THE RIPRAP

2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESSTHAN 6".

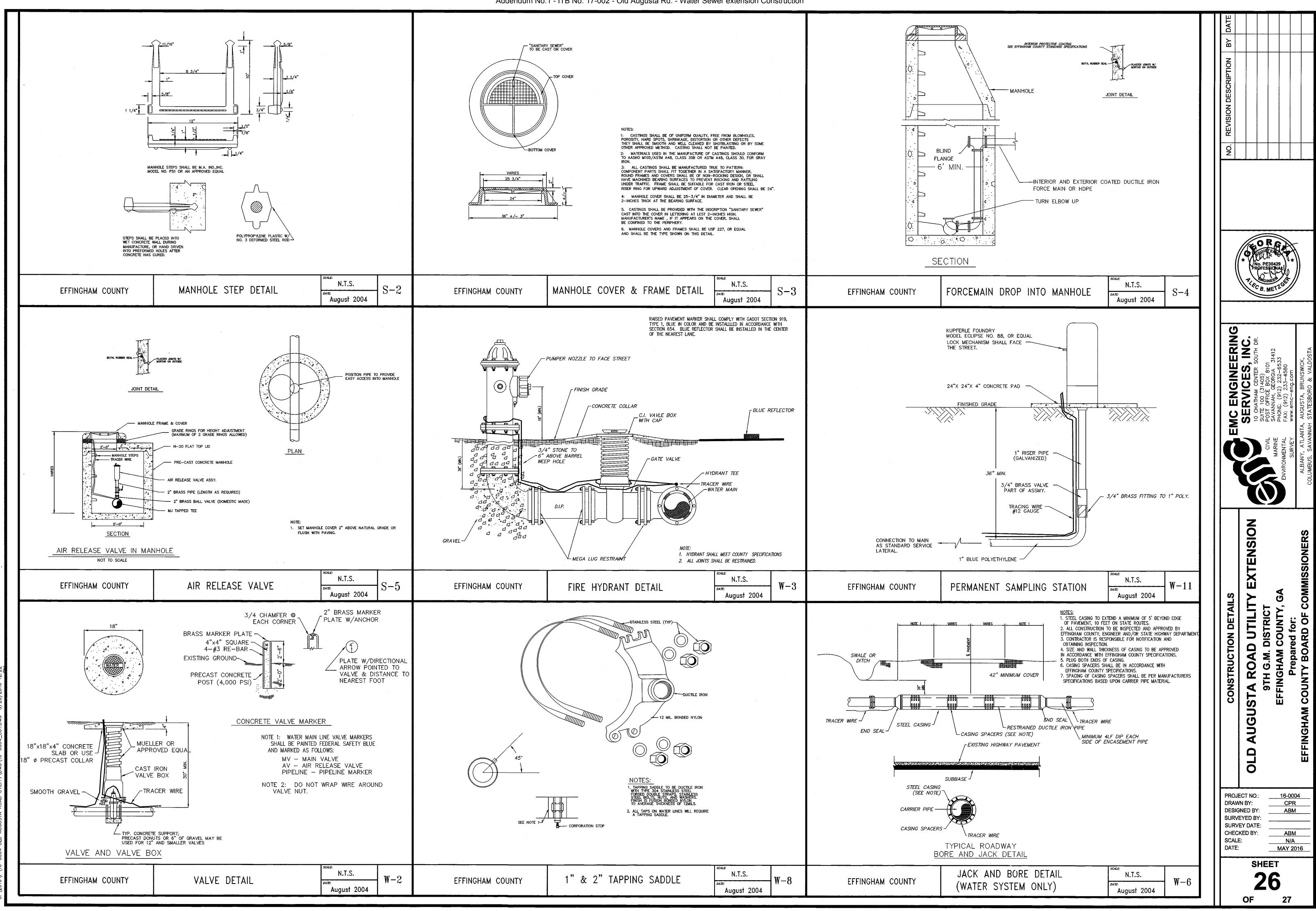
IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).

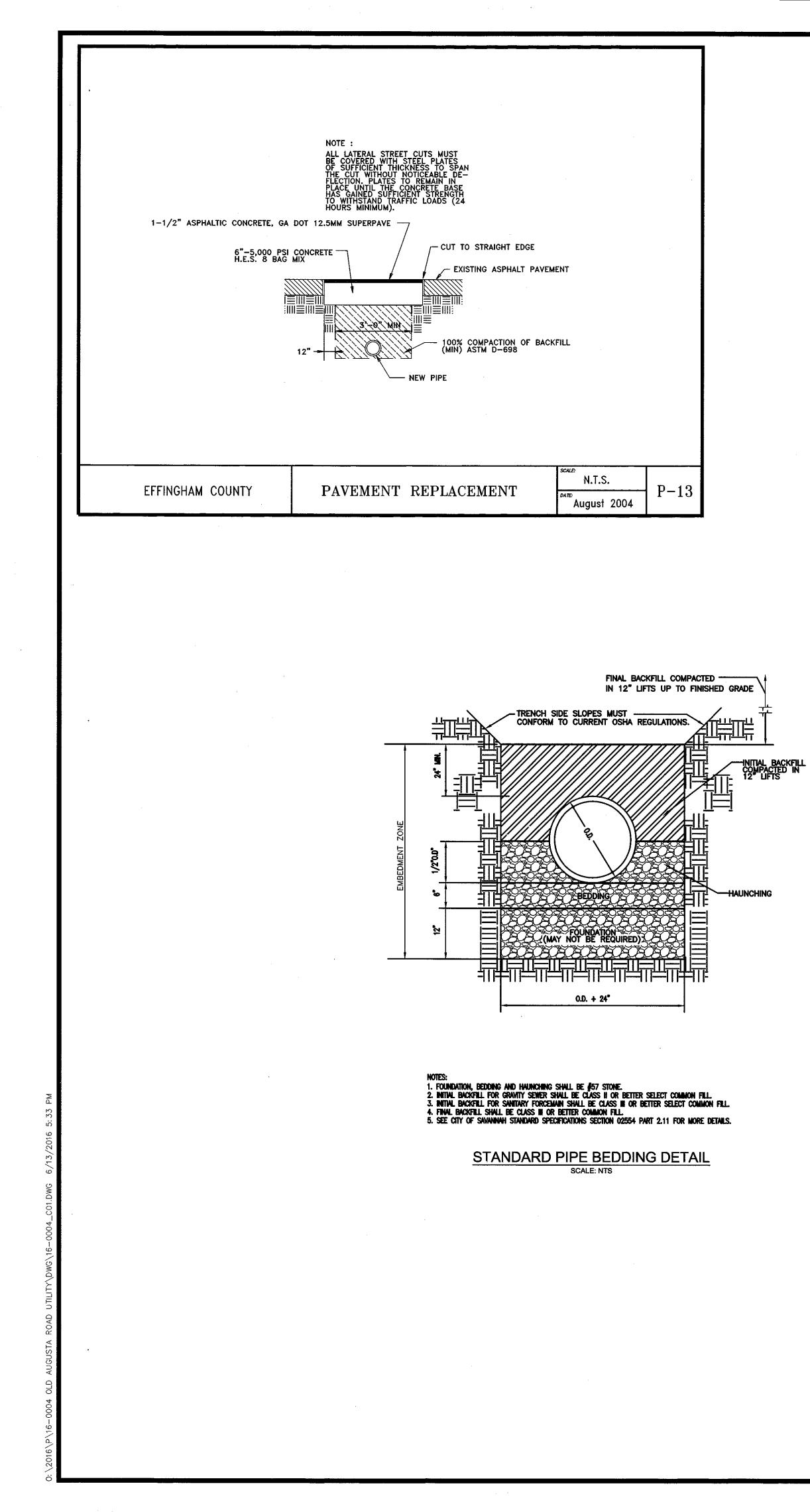
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.



FLOW CHAP	RACTERISTICS	OUTLET	PROTEC	TION DIM	ENSIONS	
ATE (CFS)	VELOCITY (FPS)	TAILWATER CONDITION	La	W1	W2	d50
0.66	3.39	< 0.5 x (PIPE DIA.)	10	6.00	12.00	6"

ō <u>N</u> GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION Level II Certified Design Pr CERTIFICATION NUMBER ISSUED: 04/11/2015 EXPIRES: 04/11/2018 O ERING. ENGINE RVICES, SEI SEI Ň **EXTENSION** S C AIL UTILIT RIC. RO CONSTRU U . USTA 6 O Ē Ö AUG HD EFFIN OLD PROJECT NO .: 16-0004 DRAWN BY: ____CPR DESIGNED BY: ABM SURVEYED BY: SURVEY DATE: CHECKED BY: ABM SCALE: N/A DATE: MAY 2016 SHEET 25 OF 27

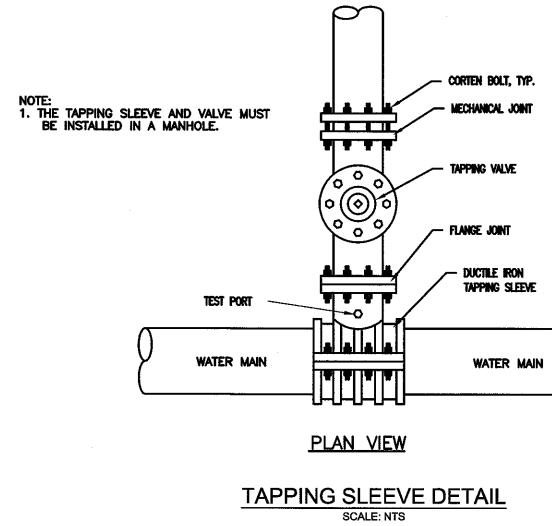


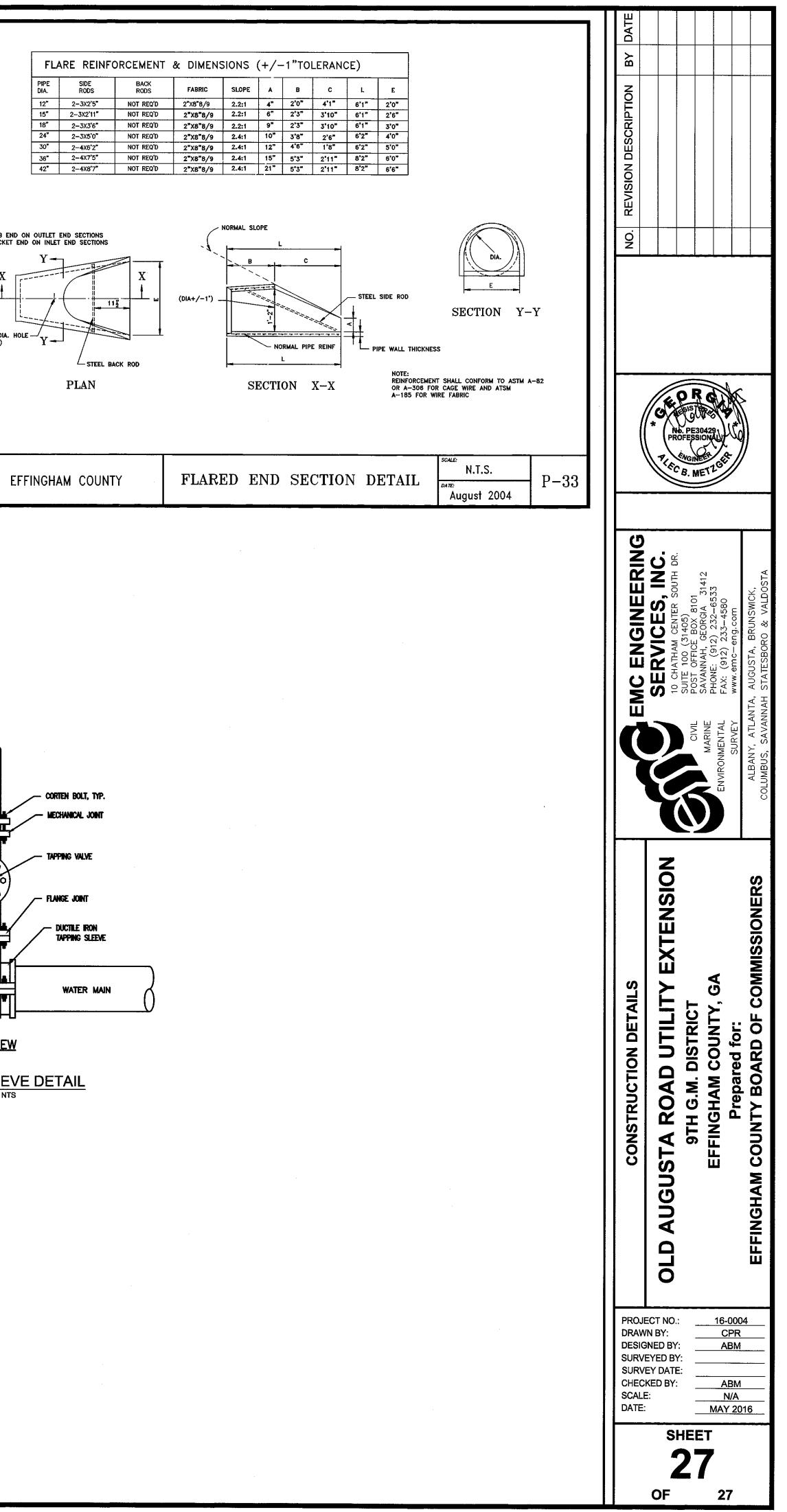


	-		
	FL/	ARE REINFO)
	PIPE Dia.	SIDE RODS	
	12*	2-3X2'5"	-
	15"	2-3X2'11"	-
	18"	2-3X3'6*	
	24*	2-3X5'0"	
	30"	2-4X6'2"	-
	36"	2-4X7'5"	
	42*	2-4X8'7"	
	ON INLET	end sections Fend sections	
	Y-	1	2
X			
4	,		
			12
11		N 8	

PLAN

1 1/4" DIA. HOLE (OPTIONAL)





All other terms and conditions in ITB 17-002 remain unchanged.

Effingham County reserves the right to reject any and all proposals, to waive any technicalities or irregularities and to award the offer based upon the most responsive, responsible submission.

Please sign receipt of this Addendum No. 1 below:

Print Name

Signature

Date

END OF ADDENDUM NO. 1