

# DEBELLE STREET & ATLANTA AREA SCHOOL FOR THE DEAF STORM IMPROVEMENTS

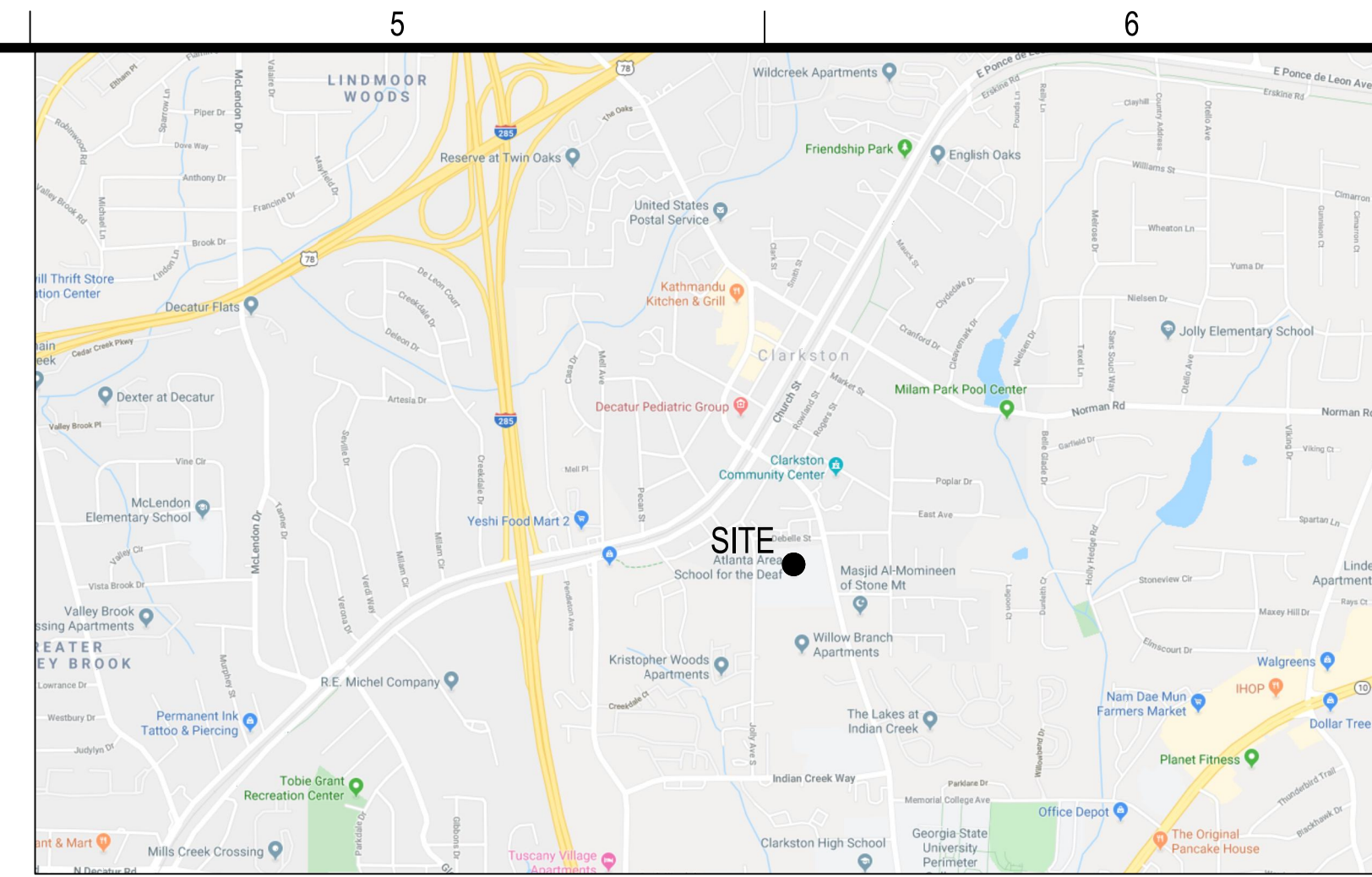
18-067-01-015 & 18-067-01-016  
890 N INDIAN CREEK DR  
CLARKSTON GA, 20021  
ZONING - NC-1  
CITY OF CLARKSTON  
CITY MANAGER ROBIN GOMEZ

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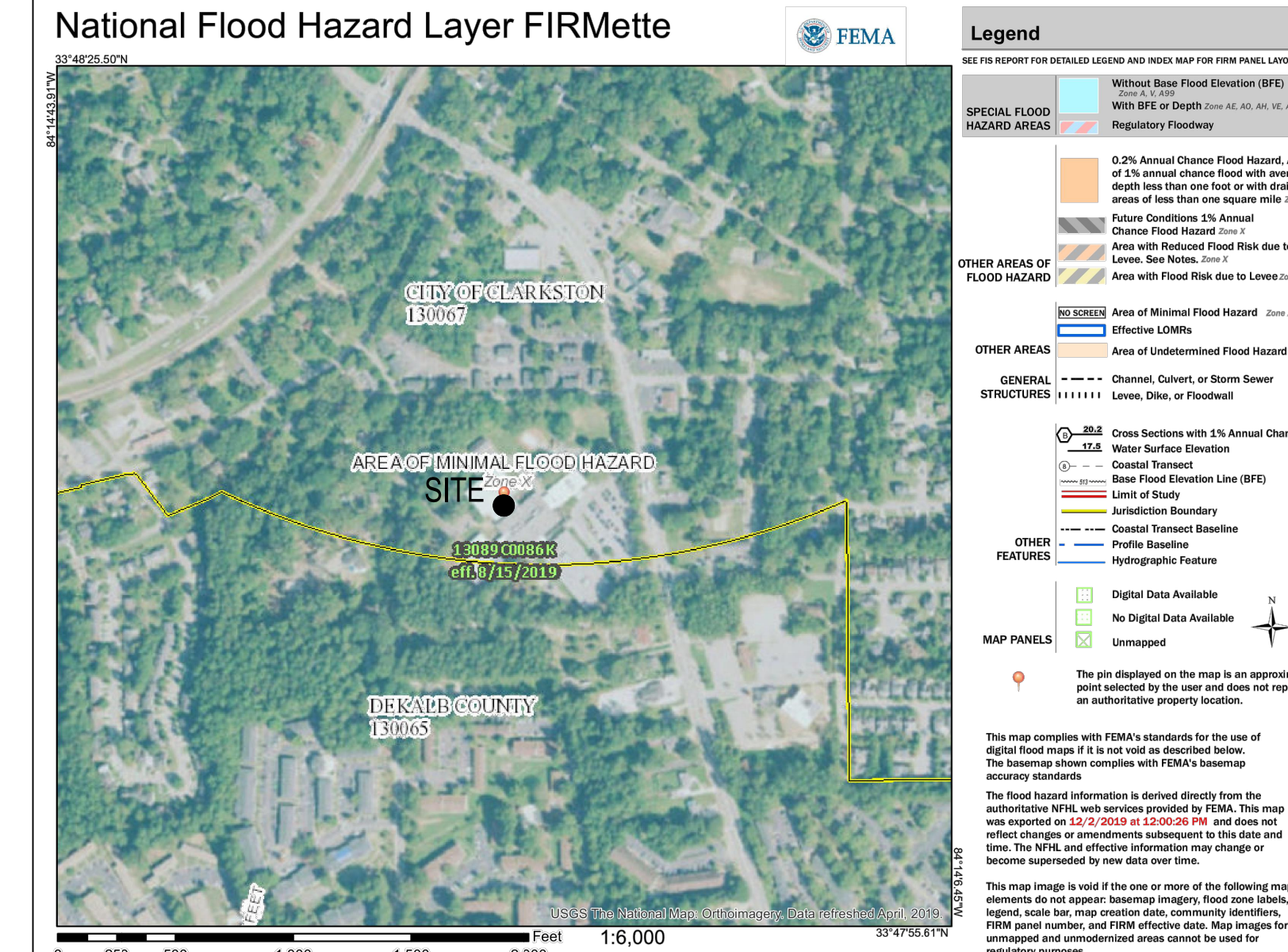
BID SCHEDULE					
Category	GDOT Pay Item	Estimated Quantity	Unit	Estimated Cost per Unit	Estimated Subtotal
<b>TRAFFIC CONTROL</b>					
Traffic Control	150-0001	1	ls		
<b>DEMOLITION AND REMOVAL</b>					
Removal of Curb	610-0400	130	lf		
Relocate Water Meter	670-9725	1	ea		
Relocate Water Valve	670-9720	1	ea		
Tree Removal	610-2900	1	ls		
Remove FES	610-6155	1	ea		
Remove Concrete Headwall	610-5828	3	ea		
Remove Grate Inlet	610-6015	1	ea		
Remove Asphalt	610-2585	25	sy		
Remove Gravel	610-3695	107	sf		
Remove Chainlink Fence	610-0200	162	lf		
Remove 18" RCP	610-0959	6	lf		
Undercut Excavation	210-0250	120	cy		
<b>SITE WORK</b>					
Clearing and Grubbing	201-1500	1	ls		
Grading Complete	210-0100	1	ls		
Remove Excess Soil (approx. 5,000 cy. *contractor responsible for quantity take off)		1	ls		
24" Curb and Gutter Type 2 Junction Box	441-6012	403	if		
Concrete Headwall	668-0811	5	ea		
Pedestal Top Inlet (per detail)	668-8900	1	ea		
Double Wing Catch Basin	668-1100	3	ea		
30" RCP	550-1301	176	lf		
15" RCP	550-1151	15	lf		
36" HDPE	550-1362	214	lf		
24" HDPE	550-1242	108	lf		
4" PVC Pipe	670-5042	17	lf		
6" Tall Black Vinyl Coated Chainlink Fence	643-1452	790	lf		
8" Wide Black Vinyl Coated Gate	643-8030	2	ea		
OCS per Detail	668-9800	1	ea		
Mill existing Asphalt Concrete variable depth	432-5010	462	sy		
Compact Asphalt Millings	999-1400	1	ls		
19mm Asphalt Base @ 2" thick	402-3190	10.4	tn		
12.5mm Asphalt Overlay (variable depth)	402-3130	11.8	tn		
Yellow Thermoplastic Solid Striping	653-1502	1,370	lf		
24" Thermoplastic White Stripe (Stop Bar)	653-1704	10	lf		
<b>EROSION CONTROL</b>					
Category	GDOT Pay Item	Estimated Quantity	Unit	Estimated Cost per Unit	Estimated Subtotal
Co - Construction Exit	163-0300	1	ea		
Portable Sanitation		1	ea		
Trash Receptacle		1	ls		
St Outlet Protection Rip Rap	603-2181	2,021	sy		
S&P Inlet Sediment Trap	163-0550	3	ea		
S&P Inlet Sediment Trap	163-0550	1	ea		
Maintenance of Inlet Sediment Trap	165-0105	1	ea		
Tt - Tree Protection Fencing	702-7501	890	lf		
Ss Slope Stabilization Matting	716-2000	676	sy		
Flr - Filter Ring	163-0542	1	ea		
Sk - Skimmer (Faircloth)	161-1000	1	ls		
NFDES Sampling Point	167-1000	1	ea		
Seeding and Site Stabilization	700-8910	1	ls		
<b>ESTIMATED GRAND TOTAL</b>					

\* Contractor is responsible for running quantity takeoffs. The above quantities are for estimation purposes only.



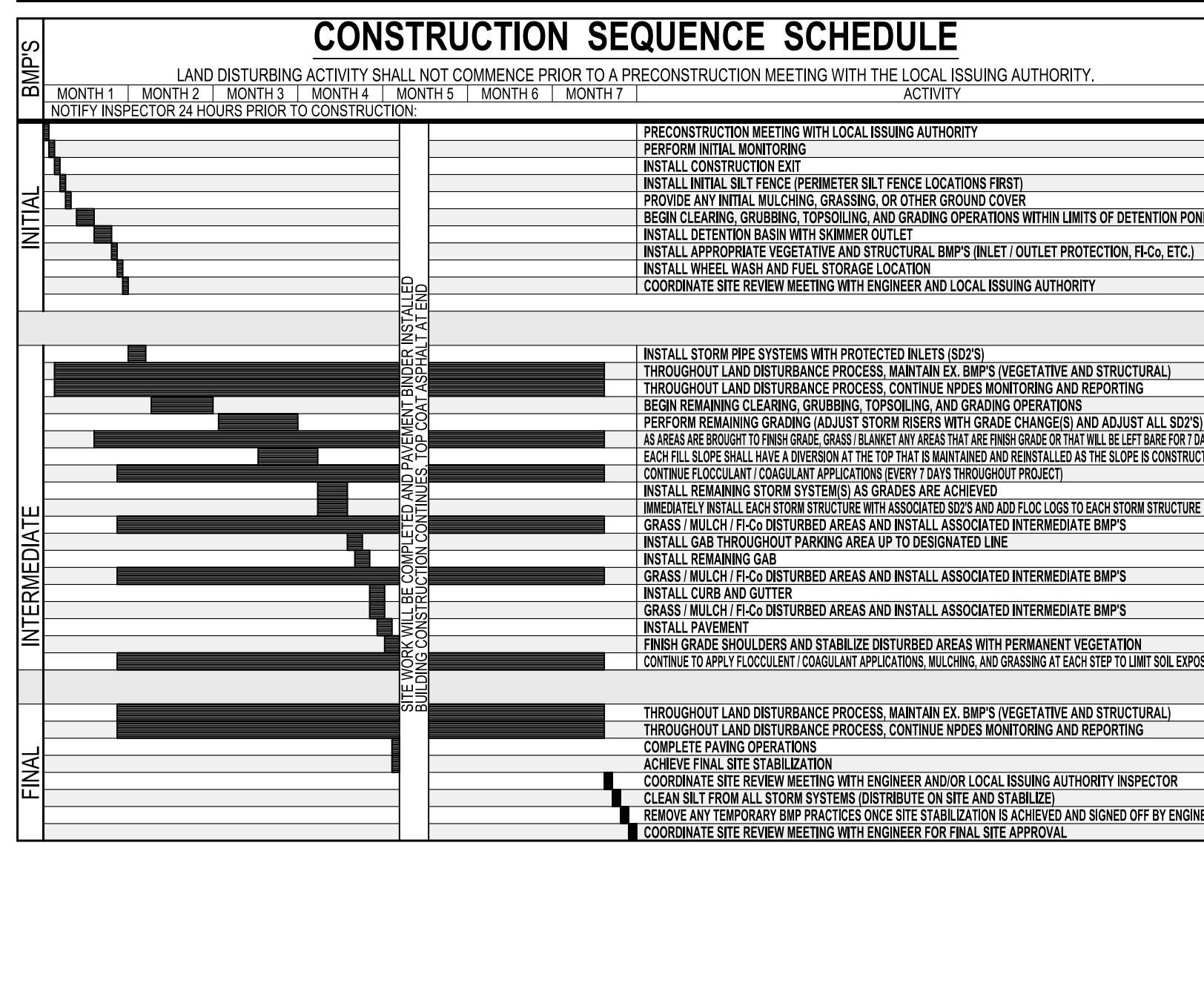
**VICINITY MAP**  
NOT TO SCALE

**GPS COORDINATES**  
N 33°48'10.80" W -84°14'28.69"  
N 33.8030 W -84.2413



**FLOOD MAP**  
NOT TO SCALE

STANDARD ABBREVIATIONS		LEGEND	
APPROX - APPROXIMATE	DI - DIAMETER	GM - GAS METER	OH - OVER HEAD POWER
BLDG - BUILDING	DS - DOWNSPOUT	GP - GUY POLE	OSMH - SANITARY SEWER MANHOLE
BM - BENCH MARK	DNOR - DOUBLE WING CATCH BASIN	GV - GAS VALVE	SSBH - SINGLE WING CATCH BASIN
C&G - CURB AND GUTTER	ESAP - EROSION, SEDIMENTATION AND POLLUTION CONTROL	ICV - IRRIGATION CONTROL VALVE	TC - TRAFFIC CONTROL BOX
CI - CURB INLET	FC - FINISH FLOOR CONNECTION	IE - INVERT ELEVATION	TP - TAX MAP PARCEL
CL - CHAIN LINK	FE - FIRE DEPARTMENT CONNECTION	IP - INVERT POINT	W - WATER
CM - CORRUGATED METAL PIPE	FE - FINISH FLOOR ELEVATION	IPF - IRON P/N FOUND	PVC - POLYVINYL CHLORIDE PIPE
CO - CLEAN OUT	FI - FIRE HYDRANT	JB - JUNCTION BOX	PP - REINFORCED CONCRETE PIPE
COP - CORRUGATED PLASTIC PIPE	FO - FIBER OPTIC	LA - LOCAL ISSUING AUTHORITY	LP - LIGHT POLE
CT - CURB TOP FOUND	FT - FEET	LI - LIGHT POLE	LS - LIGHT SIGN
DB - DEED BOOK	GI - GRATE INLET	NTS - NOT TO SCALE	SMH - STORM MANHOLE



SITE INFORMATION	
ZONING -	NC-1
PROPERTY AREA	14.85 AC
DISTURBED AREA	1.71 AC
MINIMUM LOT SIZE	6,000 SF
MINIMUM LOT WIDTH	50 FT
MINIMUM FRONT SETBACK	10 FT
MINIMUM SIDE SETBACK	NONE
MINIMUM REAR SETBACK	10 FT
MINIMUM OPEN SPACE	20%
MAXIMUM IMPERVIOUS %	NO IMPERVIOUS AREA ADDED TO PROPERTY.

MISCELLANEOUS INFORMATION	
SIGNAGE	SIGNAGE SHALL BE HANDLED UNDER A SEPARATE PERMIT
SITE LIGHTING	SITE LIGHTING IS NOT A PART OF THE CIVIL PLANS (SITE WORK CONSTRUCTION DRAWINGS). SIGN LIGHTING PROVIDED BY OTHERS UNDER SEPARATE COVER
SOIL SERIES	C&B - CECL SANDY LOAM, 2-6% SLOPES PID - PACOILET SANDY LOAM, 10-15% SLOPES U4 - URBAN DEVELOPMENT
FLOOD PLAIN	THERE IS NO FLOODPLAIN ON THIS PROPERTY AS PER FIRM PANEL 13089C008R DATED 8/15/2019. NO WORK IS BEING DONE WITHIN A FLOODPLAIN. THE PROPERTY SHOWN HEREON IS WITHIN ZONE X AND IS NOT WITHIN A SPECIAL FLOOD HAZARD AREA.
STATE WATERS	THERE ARE NO STATE WATERS PRESENT ON THIS SITE. THERE ARE NO STATE WATERS PRESENT WITHIN 200' OF THIS SITE. THERE ARE NO STREAM BUFFERS ON THIS PROPERTY.
HYDROLOGY	STORMWATER DETENTION WILL BE PROVIDED ON SITE. ONE DETENTION BASIN IS PROPOSED THAT IS DESIGNED TO LIMIT THE PEAK FLOW RATES FOR THE 1% THROUGH 100% STORM EVENTS AND PROVIDE A PERMANENT POOL FOR WATER QUALITY. SEE HYDROLOGY STUDY.
WETLAND	THERE ARE NO WETLANDS BEING DISTURBED ON THIS SITE. THE DESIGN PROFESSIONAL WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING: (1) THE NATIONAL WETLANDS INVENTORY MAPS HAVE BEEN CONSULTED AND (2) THE APPROPRIATE PLAN SHEET DOES INDICATE WETLANDS AS SHOWN ON THE MAPS AND (3) THE SHEET DOES INDICATE THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE PROJECTS SHOULD BE REVIEWED FOR ANY UNLESS APPROPRIATE FEDERAL WETLANDS ALTERATION SECTION 404 PERMIT HAS BEEN OBTAINED.

DEVELOPER		CONTRACTOR	
COMPANY: CITY OF CLARKSTON	CITY MANAGER ROBIN GOMEZ	COMPANY: TBD	
ADDRESS: 1055 ROWLAND ST CLARKSTON, GA 30021		CONTACT: LARRY KAISER	PHONE: 404-909-5619
		EMAIL: KAISER@CO-INFRASERVICES.COM	
		CONTACT: LARRY KAISER	PHONE: 404-909-5619
		EMAIL: KAISER@CO-INFRASERVICES.COM	

SURVEYOR		SITE DESIGNER	
COMPANY: GEORGIA CIVIL, INC.	1055 ROWLAND ST CLARKSTON, GA 30021	COMPANY: GEORGIA CIVIL, INC.	1055 ROWLAND ST CLARKSTON, GA 30021
ADDRESS: P.O. BOX 896 MADISON, GA 30650		ADDRESS: P.O. BOX 896 MADISON, GA 30650	
CONTACT: BRIAN SLATE	PHONE: 706-342-1104	CONTACT: BRIAN SLATE	PHONE: 706-342-1104
EMAIL: BSLATE@GEORGIA-CIVIL.COM		EMAIL: BSLATE@GEORGIA-CIVIL.COM	

DRAWING DATE		REVISIONS	
DATE: 01.21.2020		DATE: 09.17.20	DESCRIPTION: COMMENTS
DRAWN BY: JPB/MKS		CHECKED BY: JPB	
CHECKED BY: JPB			

**georgia civil**  
CIVIL ENGINEERING  
LANDSCAPE ARCHITECTURE  
LAND SURVEYING

311 N. Main St., Ste. 101, Unit C  
P.O. Box 896 | Madison, GA 30650  
P: 706.342.1104 | F: 706.342.1105  
www.georgiacivil.com

Professional Seal

Project Information

**DEBELLE STREET & ATLANTA AREA SCHOOL FOR THE DEAF STORM IMPROVEMENTS**  
 PARCEL NO. : 18-067-01-015 & 18-067-01-016  
 890 N INDIAN CREEK DR, CLARKSTON GA, 20021  
 ZONING-NC-1

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Sheet Title

COVER SHEET

Sheet Number

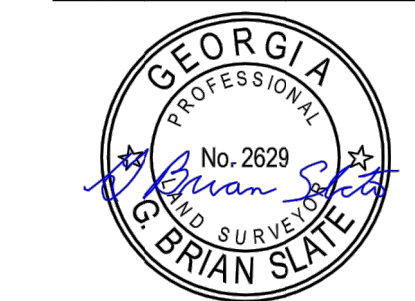
**CV-1.1**



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311 North Main Street, Unit C, Suite 101  
P.O. Box 896 | Madison, GA 30650  
P: 706.342.1104 | C: 706.201.0996

www.georgiacivil.com



SURVEYED BY:  
G. BRIAN SLOTT, RLS#2629  
C: 706-201-0996  
bsloto@georgiacivil.com

"THE SURVEY WAS PREPARED IN CONFORMANCE WITH THE TECHNICAL STANDARDS FOR PROPERTY SURVEYS IN GEORGIA AS SET FORTH IN CHAPTER 180- OF THE RULES OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND THE OFFICIAL CODE OF GEORGIA ANNOTATED (OCGA) 15-6-67, AS AMENDED BY HB1004 (2019)."  
CERTIFICATE OF AUTHORIZATION LSP00105  
Project Information

**STATE OF GEORGIA**  
GEORGIA DEPARTMENT OF EDUCATION  
ATLANTA AREA SCHOOL FOR THE DEAF  
PARTIAL TOPOGRAPHICAL & EXISTING CONDITIONS SURVEY  
IN LAND LOT 67 OF THE 18th LAND DISTRICT  
IN THE CITY OF CLARKSTON, DEKALB COUNTY, GEORGIA

SURVEY FOR:

CREW CHIEF: DR  
SURVEYED: 08/07/19  
DRAWING DATE: 10/03/19  
DRAWN BY: OAK  
CHECKED BY: GBS

REVISIONS  
DATE: DESCRIPTION:

SCALE: 1"=30'

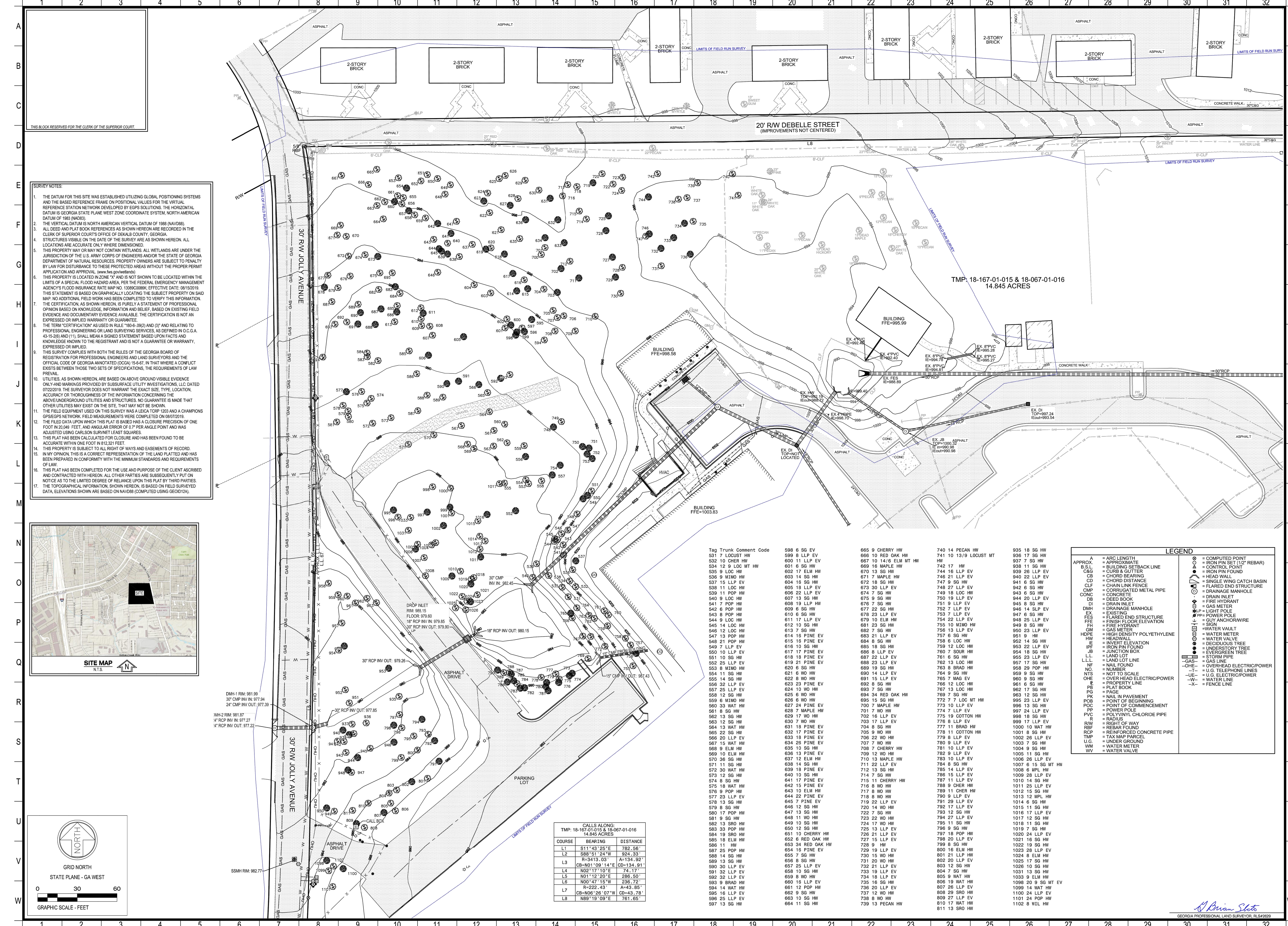
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Sheet Title

BOUNDARY SURVEY

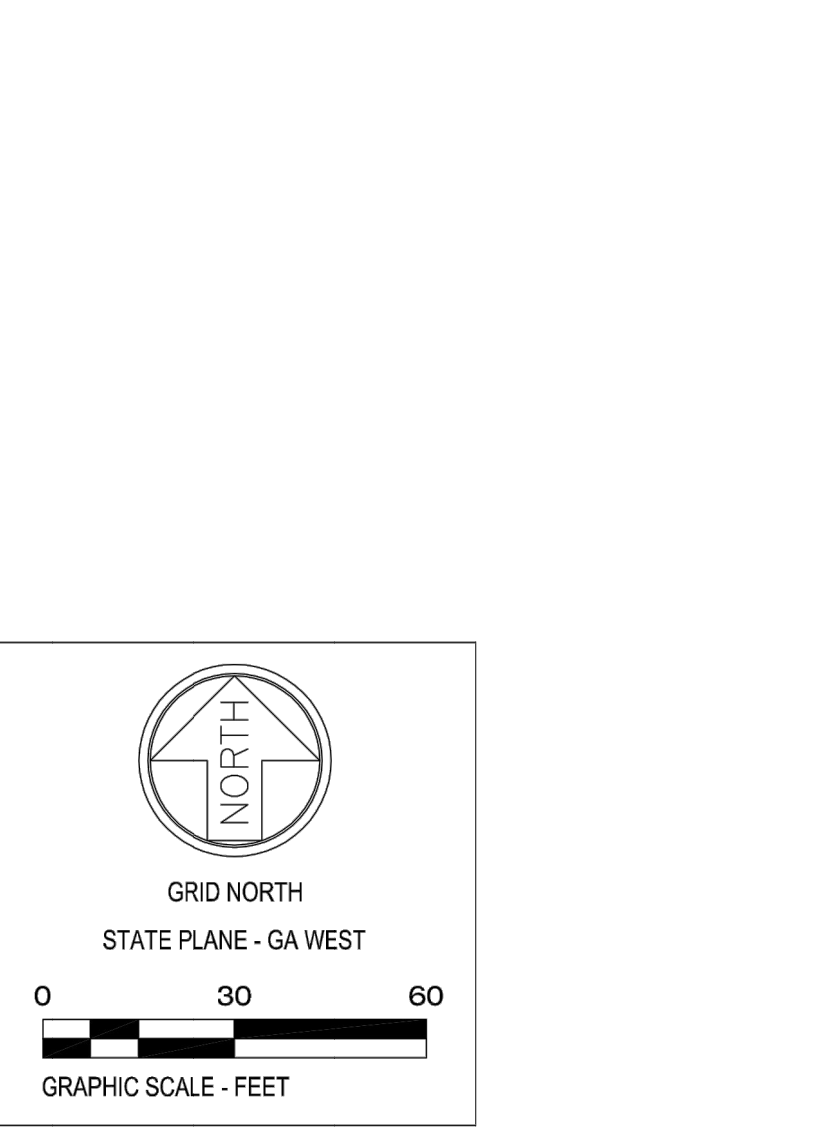
Sheet Number

**TS-1.1**



**SURVEY NOTES**

- THE DATUM FOR THIS SITE WAS ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEMS AND THE BASED REFERENCE FRAME ON POSITIONAL VALUES FOR THE VIRTUAL REFERENCE STATION NETWORK DEVELOPED BY EGFS SOLUTIONS. THE HORIZONTAL DATUM IS GEORGIA STATE PLANE WEST ZONE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD83).
- THE VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- ALL DEED AND PLAT BOOK REFERENCES AS SHOWN HEREON ARE RECORDED IN THE CLERK OF SUPERIOR COURTS OFFICE OF DEKALB COUNTY, GEORGIA.
- STRUCTURES VISIBLE ON THE DATE OF THE SURVEY ARE AS SHOWN HEREON. ALL LOCATIONS ARE ACCURATE ONLY WHERE DIMENSIONED.
- THIS PROPERTY MAY OR MAY NOT CONTAIN WETLANDS. ALL WETLANDS ARE UNDER THE JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS AND/OR THE STATE OF GEORGIA DEPARTMENT OF NATURAL RESOURCES. PROPERTY OWNERS ARE SUBJECT TO PENALTY BY LAW FOR DISTURBANCE TO THESE PROTECTED AREAS WITHOUT THE PROPER PERMIT APPLICATION AND APPROVAL. (www.fws.gov/wetlands)
- THIS PROPERTY IS LOCATED IN ZONE "X" AND IS NOT SHOWN TO BE LOCATED WITHIN THE LIMITS OF A SPECIAL FLOOD HAZARD AREA, PER THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAP NO. 13080C0086K, EFFECTIVE DATE: 08/15/2019. THIS STATEMENT IS BASED ON GRAPHICALLY LOCATING THE SUBJECT PROPERTY ON SAID MAP. NO ADDITIONAL FIELD WORK HAS BEEN COMPLETED TO VERIFY THIS INFORMATION.
- THE CERTIFICATION, AS SHOWN HEREON, IS PURELY A STATEMENT OF PROFESSIONAL OPINION BASED ON KNOWLEDGE, INFORMATION AND BELIEF, BASED ON EXISTING FIELD EVIDENCE AND DOCUMENTARY EVIDENCE AVAILABLE. THE CERTIFICATION IS NOT AN EXPRESSED OR IMPLIED WARRANTY OR GUARANTEE.
- THE TERM "CERTIFICATION" AS USED IN RULE "180-6-09(2) AND (3)" AND RELATING TO PROFESSIONAL ENGINEERING OR LAND SURVEYING SERVICES, AS DEFINED IN O.C.G.A. 43-15-10(8) AND (11), SHALL MEAN A SIGNED STATEMENT BASED UPON FACTS AND KNOWLEDGE KNOWN TO THE REGISTRANT AND IS NOT A GUARANTEE OR WARRANTY, EXPRESSED OR IMPLIED.
- THIS SURVEY COMPLES WITH BOTH THE RULES OF THE GEORGIA BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND THE OFFICIAL CODE OF GEORGIA ANNOTATED (OCGA) 15-6-67, IN THAT WHERE A CONFLICT EXISTS BETWEEN THOSE TWO SETS OF SPECIFICATIONS, THE REQUIREMENTS OF LAW PREVAIL.
- UTILITIES, AS SHOWN HEREON, ARE BASED ON ABOVE GROUND VISIBLE EVIDENCE ONLY AND MARKINGS PROVIDED BY SUBSURFACE UTILITY INVESTIGATIONS, LLC DATED 07/22/2019. THE SURVEYOR DOES NOT WARRANT THE EXACT SIZE, TYPE, LOCATION, ACCURACY OR THEORICAL DEPTH OF THE INFORMATION CONCERNING THE ABOVE-GROUND UTILITIES AND STRUCTURES. NO GUARANTEE IS MADE THAT OTHER UTILITIES MAY EXIST ON THE SITE, THAT MAY NOT BE SHOWN.
- THE FIELD EQUIPMENT USED ON THIS SURVEY WAS A LEICA TOPCON 1203 AND A CHAMPIONS GPS/EGPS NETWORK. FIELD MEASUREMENTS WERE COMPLETED ON 08/07/2019.
- THE FILED DATA UPON WHICH THIS PLAT IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 20,049 FEET, AND AN ANGULAR ERROR OF 0.7" PER ANGLE POINT AND WAS ADJUSTED USING CARLSON SURVEYNET EAST SQUARES.
- THIS PLAT HAS BEEN CALCULATED FOR CLOSURE AND HAS BEEN FOUND TO BE ACCURATE WITHIN ONE FOOT IN 812,321 FEET.
- THIS PROPERTY IS SUBJECT TO ALL RIGHT OF WAYS AND EASEMENTS OF RECORD. IN MY OPINION, THIS IS A CORRECT REPRESENTATION OF THE LAND PLATTED AND HAS BEEN PREPARED IN CONFORMANCE WITH THE MINIMUM STANDARDS AND REQUIREMENTS OF LAW.
- THIS PLAT HAS BEEN COMPLETED FOR THE USE AND PURPOSE OF THE CLIENT ASCRIBED AND CONTRACTED WITH HEREON. ALL OTHER PARTIES ARE SUBSEQUENTLY PUT ON NOTICE AS TO THE LIMITED DEGREE OF RELIANCE UPON THIS PLAT BY THIRD PARTIES. THE TOPOGRAPHICAL INFORMATION SHOWN HEREON, IS BASED ON FIELD SURVEYED DATA. ELEVATIONS SHOWN ARE BASED ON NAVD88 (COMPUTED USING GEOID2011).



CALLS ALONG:  
TMP: 18-167-01-015 & 18-067-01-016  
14.845 ACRES

COURSE	BEARING	DISTANCE
L1	S11°43'25"E	782.56'
L2	S88°51'24"W	924.33'
L3	R-3413.03°	A=134.92'
L4	CB-N01°09'14"E	CO=134.91'
L5	N02°17'10"E	74.17'
L6	N01°12'20"E	286.50'
L7	N00°47'15"W	236.72'
L8	R-222.43°	A=43.85'
L9	CB-N06°26'07"W	CO=43.78'
L10	N89°19'09"E	761.65'

Tag	Trunk	Comment	Code
531	7	LOCUST HW	598 6 SG EV
532	10	CHER HW	599 8 LLP EV
534	12	9 LOC MT HW	600 11 LLP EV
535	9	LOC HW	601 6 SG HW
536	9	MIMO HW	602 17 ELM HW
537	15	LLP EV	603 14 SG HW
538	11	LOC HW	604 15 SG HW
539	11	POP HW	605 21 LLP EV
540	9	LOC HW	606 22 LLP EV
541	7	POP HW	607 13 SG HW
542	6	POP HW	608 19 LLP EV
543	8	POP HW	609 18 LLP EV
544	9	LOC HW	610 15 SG HW
545	14	LOC HW	611 7 POP HW
546	12	LOC HW	612 22 SG HW
547	13	POP HW	613 7 SG HW
548	21	POP HW	614 9 LOC HW
549	7	LLP EV	615 10 SG HW
550	10	LLP EV	616 7 SG HW
551	10	SG HW	617 17 PINE EV
552	25	LLP EV	618 19 PINE EV
553	8	MIMO HW	619 10 PINE EV
554	11	SG HW	620 23 PINE EV
555	14	SG HW	621 6 SG HW
556	12	SG HW	622 21 LLP EV
557	25	LLP EV	623 23 PINE EV
558	12	SG HW	624 10 WO HW
559	6	MIMO HW	625 6 WO HW
560	3	WAT HW	626 6 WO HW
561	8	SG HW	627 24 PINE EV
562	13	SG HW	628 7 MAPLE HW
563	12	SG HW	629 17 WO HW
564	13	WAT HW	630 7 WO HW
565	22	SG HW	631 19 PINE EV
566	20	LLP EV	632 7 PINE EV
567	15	WAT HW	633 18 PINE EV
568	9	ELM HW	634 25 WO HW
569	10	ELM HW	635 10 SG HW
570	36	SG HW	636 12 WO HW
571	11	SG HW	637 12 ELM HW
572	30	WAT HW	638 14 SG HW
573	12	SG HW	639 8 SG HW
574	18	WAT HW	640 17 PINE EV
575	9	POP HW	641 15 PINE EV
576	9	POP HW	642 15 PINE EV
577	23	LLP EV	643 13 SG HW
578	13	SG HW	644 22 PINE EV
579	8	SG HW	645 12 SG HW
580	17	POP HW	646 12 SG HW
581	9	SG HW	647 13 SG HW
582	13	SRO HW	648 11 WO HW
583	33	POP HW	649 10 SG HW
584	19	SRO HW	650 12 WO HW
585	18	ELM HW	651 10 CHERRY HW
586	11	HW	652 6 RED OAK HW
587	25	POP HW	653 34 RED OAK HW
588	14	SG HW	654 10 PINE EV
589	13	SG HW	655 7 SG HW
590	30	LLP EV	656 7 SG HW
591	32	LLP EV	657 12 WO HW
592	32	LLP EV	658 10 SG HW
593	9	BRAD HW	659 8 WO HW
594	14	WAT HW	660 16 LLP EV
595	25	LLP EV	661 12 POP HW
596	13	SG HW	662 9 SG HW
597	13	SG HW	663 10 SG HW
598	10	LLP EV	664 11 SG HW
599	10	LLP EV	665 9 CHERRY HW
600	10	LLP EV	666 10 RED OAK HW
601	6	SG HW	667 10 14/6 ELM MT HW
602	17	ELM HW	668 16 MAPLE HW
603	14	SG HW	669 13 SG HW
604	15	SG HW	670 13 SG HW
605	18	LLP EV	671 7 MAPLE HW
606	22	LLP EV	672 18 SG HW
607	13	SG HW	673 30 LLP EV
608	19	LLP EV	674 7 SG HW
609	13	SG HW	675 9 SG HW
610	7	POP HW	676 7 SG HW
611	7	POP HW	677 22 SG HW
612	6	SG HW	678 23 LLP EV
613	10	SG HW	679 10 ELM HW
614	16	PINE EV	680 19 LLP EV
615	10	PINE EV	681 23 SG HW
616	17	PINE EV	682 7 SG HW
617	17	PINE EV	683 21 LLP EV
618	19	PINE EV	684 8 SG HW
619	21	PINE EV	685 18 SG HW
620	6	SG HW	686 8 LLP EV
621	6	WO HW	687 22 LLP EV
622	9	WO HW	688 6 LOC HW
623	23	PINE EV	689 29 POP HW
624	10	WO HW	690 14 LLP EV
625	6	WO HW	691 15 LLP EV
626	6	WO HW	692 8 SG HW
627	24	PINE EV	693 7 SG HW
628	7	MAPLE HW	694 34 RED OAK HW
629	17	WO HW	695 15 SG HW
630	7	WO HW	696 7 WO HW
631	19	PINE EV	697 7 WO HW
632	7	PINE EV	698 19 COTTON HW
633	18	PINE EV	699 11 COTTON HW
634	25	WO HW	700 7 WO HW
635	10	SG HW	701 7 CHERRY HW
636	12	WO HW	702 7 SG HW
637	12	ELM HW	703 17 LLP EV
638	14	SG HW	704 8 SG HW
639	8	SG HW	705 9 WO HW
640	10	SG HW	706 11 COTTON HW
641	17	PINE EV	707 7 WO HW
642	15	PINE EV	708 7 CHERRY HW
643	13	SG HW	709 9 SG HW
644	22	PINE EV	710 10 LLP EV
645	12	SG HW	711 22 LLP EV
646	12	SG HW	712 13 SG HW
647	13	SG HW	713 12 SG HW
648	11	WO HW	714 7 SG HW
649	10	SG HW	715 11 CHERRY HW
650	12	WO HW	716 8 WO HW
651	10	CHERRY HW	717 8 WO HW
652	6	RED OAK HW	718 8 WO HW
653	34	RED OAK HW	719 22 LLP EV
654	10	PINE EV	720 14 WO HW
655	7	SG HW	721 13 SG HW
656	7	SG HW	722 7 SG HW
657	12	WO HW	723 22 WO HW
658	10	SG HW	724 17 WO HW
659	8	WO HW	725 13 LLP EV
660	16	LLP EV	726 21 LLP EV
661	12	POP HW	727 15 LLP EV
662	9	SG HW	728 21 LLP EV
663	10	SG HW	729 19 LLP EV
664	11	SG HW	730 15 WO HW
665	7	SG HW	731 20 WO HW
666	12	LLP EV	732 12 SG HW
667	10	SG HW	733 19 LLP EV
668	14	WAT HW	734 18 LLP EV
669	16	LLP EV	735 16 SG HW
670	22	LLP EV	736 22 LLP EV
671	8	WO HW	737 8 WO HW
672	9	SG HW	738 8 WO HW
673	12	WO HW	739 13 PECAN HW
674	16	LLP EV	
675	9	SG HW	
676	7	SG HW	
677	22	SG HW	
678	23	LLP EV	
679	10	ELM HW	
680	19	LLP EV	
681	23	SG HW	
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683	21	LLP EV	
684	8	SG HW	
685	18	SG HW	
686	8	LLP EV	
687	22	LLP EV	
688	6	LOC HW	
689	29	POP HW	
690	14	LLP EV	
691	15	LLP EV	
692	8	SG HW	
693	7	SG HW	
694	34	RED OAK HW	
695	15	SG HW	
696	7	WO HW	
697	7	WO HW	
698	19	COTTON HW	
699	11	COTTON HW	
700	7	WO HW	
701	7	CHERRY HW	
702	7	SG HW	
703	17	LLP EV	
704	8	SG HW	
705	9	WO HW	
706	11	COTTON HW	
707	7	WO HW	
708	7	CHERRY HW	
709	9	SG HW	
710	10	LLP EV	
711	22	LLP EV	
712	13	SG HW	
713	12	SG HW	
714	7	SG HW	
715	11	CHERRY HW	
716	8	WO HW	
717	8	WO HW	
718	8	WO HW	
719	22	LLP EV	
720	14	WO HW	
721	13	SG HW	
722	7	SG HW	
723	22	WO HW	
724	17	WO HW	
725	13	LLP EV	
726	21	LLP EV	
727	15	LLP EV	
728	21	LLP EV	
729	19	LLP EV	
730	15	WO HW	
731	20	WO HW	
732	12	SG HW	
733	19	LLP EV	
734	18	LLP EV	
735	16	SG HW	
736	22	LLP EV	
737	8	WO HW	
738	8	WO HW	
739	13	PECAN HW	

**LEGEND**

A	= ARC LENGTH	⊗	= COMPUTED POINT
B.S.L	= APPROXIMATE	⊙	= IRON PIN SET (1/2" REBAR)
CB	= BUILDING SETBACK LINE	⊖	= CONTROL POINT
CG	= CURB & GUTTER	⊕	= IRON PIN FOUND
CR	= CHORD BEARING	⊗	= HEAD WALL
CD	= CHORD DISTANCE	⊖	= SINGLE WING CATCH BASIN
CLF	= CHAIN LINK FENCE	⊗	= FLARED END STRUCTURE
CMP	= CORRUGATED METAL PIPE	⊖	= DRAINAGE MANHOLE
CONC	= CONCRETE	⊖	= DRAIN INLET
DB	= DEED BOOK	⊖	= FIRE HYDRANT
DMH	= DRAINAGE MANHOLE	⊖	= GAS METER
DI	= DRAIN INLET	⊖	= LIGHT POLE
EX	= EXISTING	⊖	= POWER POLE
FES	= FINISH FLOOR ELEVATION	⊖	= GUY ANCHOR/WIRE
FI	= FIRE HYDRANT	⊖	= SIGN
GM	= GAS METER	⊖	= WATER VALVE
HDP	= HIGH DENSITY POLYETHYLENE	⊖	= WATER METER
HW	= HEADWALL	⊖	= WATER VALVE
IE	= INVERT ELEVATION	⊖	= DECIDUOUS TREE
IPF	= IRON PIN FOUND	⊖	= LINDEN/STORY TREE
JB	= JUNCTION BOX	⊖	= EVERGREEN TREE
LL	= LAND LOT	⊖	= STORM PIPE
LL.L	= LAND LOT LINE	⊖	= GAS LINE
NO	= NUMBER	⊖	= OVERHEAD ELECTRIC/POWER
NTS	= NOT TO SCALE	⊖	= U.G. ELECTRIC/POWER
OHE	= OVERHEAD ELECTRIC/POWER	⊖	= WATER LINE
PG	= PAGE	⊖	= FENCE LINE
PK	= NAIL IN PAVEMENT		
POB	= POINT OF BEGINNING		
POC	= POINT OF COMMENCEMENT		
PVC	= POWER POLE		
PP	= POLYETHYLENE CHLORIDE PIPE		
R	= RADIUS		
R/W	= RIGHT OF WAY		
RFB	= REINFORCED CONCRETE PIPE		
RSP	= TAX MAP PARCEL		
T.M.G.	= UNDER GROUND		
U.G.	= UNDER GROUND		
WM	= WATER METER		
WV	= WATER VALVE		



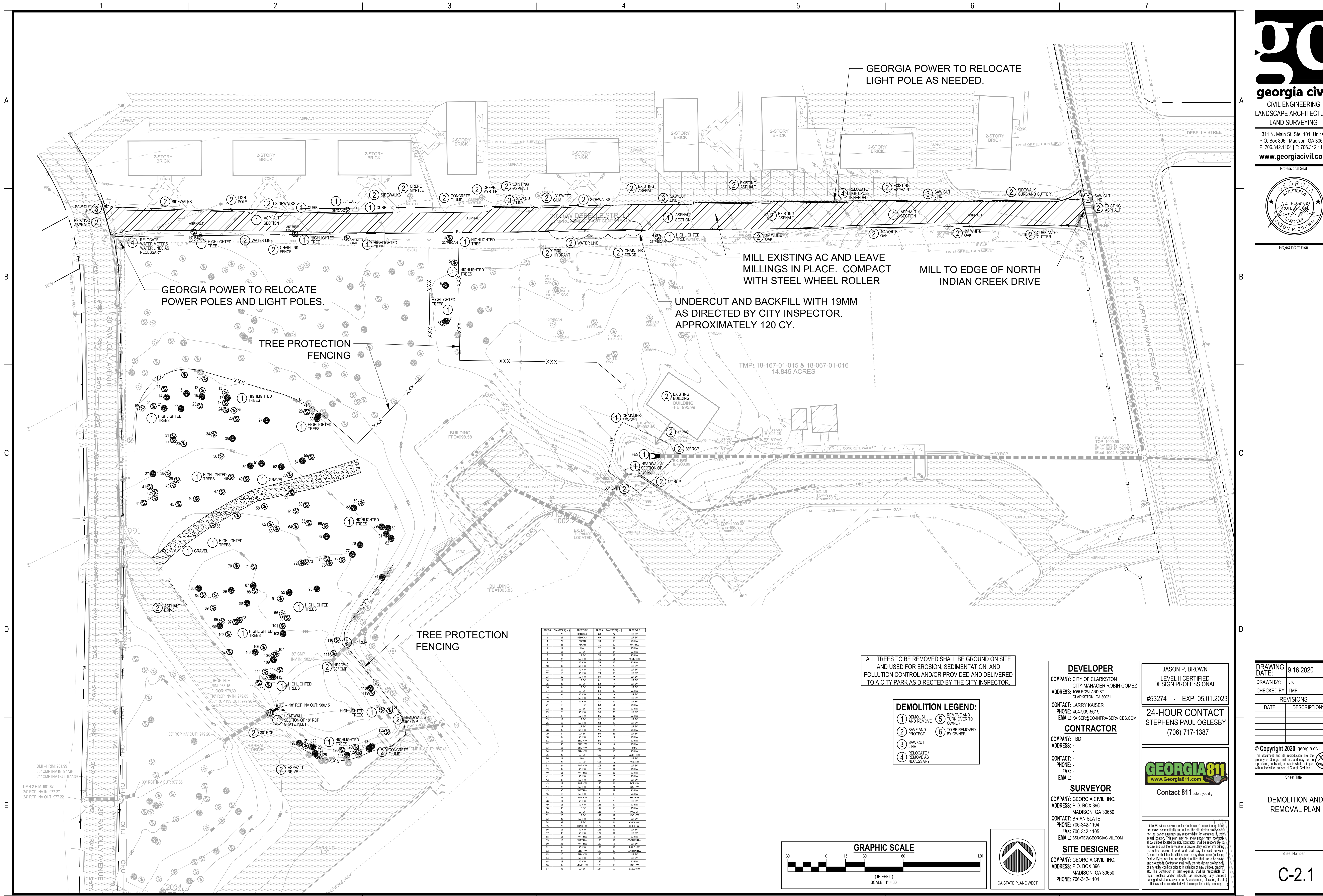


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Project Information



GEORGIA POWER TO RELOCATE  
 POWER POLES AND LIGHT POLES.

GEORGIA POWER TO RELOCATE  
 LIGHT POLE AS NEEDED.

MILL EXISTING AC AND LEAVE  
 MILLINGS IN PLACE. COMPACT  
 WITH STEEL WHEEL ROLLER

MILL TO EDGE OF NORTH  
 INDIAN CREEK DRIVE

UNDERCUT AND BACKFILL WITH 19MM  
 AS DIRECTED BY CITY INSPECTOR.  
 APPROXIMATELY 120 CY.

TREE PROTECTION  
 FENCING

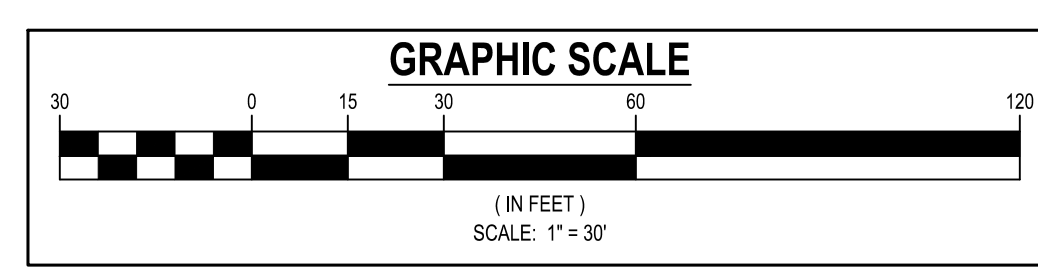
TREE PROTECTION  
 FENCING

ALL TREES TO BE REMOVED SHALL BE GROUND ON SITE  
 AND USED FOR EROSION, SEDIMENTATION, AND  
 POLLUTION CONTROL AND/OR PROVIDED AND DELIVERED  
 TO A CITY PARK AS DIRECTED BY THE CITY INSPECTOR.

**DEMOLITION LEGEND:**

- 1 DEMOLISH AND REMOVE
- 2 SAVE AND PROTECT
- 3 SAW CUT LINE
- 4 RELOCATE / REMOVE AS NECESSARY
- 5 REMOVE AND TURN OVER TO OWNER
- 6 TO BE REMOVED BY OWNER

TREE #	QUANTITY	TREE TYPE	TREE #	QUANTITY	TREE TYPE
1	1	RED OAK	88	1	LIP OY
2	2	RED OAK	89	1	LIP OY
3	1	RED OAK	90	1	LIP OY
4	2	PECAN	91	1	WAT RW
5	1	PECAN	92	1	WAT RW
6	1	WAT RW	93	1	WAT RW
7	1	WAT RW	94	1	WAT RW
8	1	WAT RW	95	1	WAT RW
9	1	WAT RW	96	1	WAT RW
10	1	WAT RW	97	1	WAT RW
11	1	WAT RW	98	1	WAT RW
12	1	WAT RW	99	1	WAT RW
13	1	WAT RW	100	1	WAT RW
14	1	WAT RW	101	1	WAT RW
15	1	WAT RW	102	1	WAT RW
16	1	WAT RW	103	1	WAT RW
17	1	WAT RW	104	1	WAT RW
18	1	WAT RW	105	1	WAT RW
19	1	WAT RW	106	1	WAT RW
20	1	WAT RW	107	1	WAT RW
21	1	WAT RW	108	1	WAT RW
22	1	WAT RW	109	1	WAT RW
23	1	WAT RW	110	1	WAT RW
24	1	WAT RW	111	1	WAT RW
25	1	WAT RW	112	1	WAT RW
26	1	WAT RW	113	1	WAT RW
27	1	WAT RW	114	1	WAT RW
28	1	WAT RW	115	1	WAT RW
29	1	WAT RW	116	1	WAT RW
30	1	WAT RW	117	1	WAT RW
31	1	WAT RW	118	1	WAT RW
32	1	WAT RW	119	1	WAT RW
33	1	WAT RW	120	1	WAT RW
34	1	WAT RW	121	1	WAT RW
35	1	WAT RW	122	1	WAT RW
36	1	WAT RW	123	1	WAT RW
37	1	WAT RW	124	1	WAT RW
38	1	WAT RW	125	1	WAT RW
39	1	WAT RW	126	1	WAT RW
40	1	WAT RW	127	1	WAT RW
41	1	WAT RW	128	1	WAT RW
42	1	WAT RW	129	1	WAT RW
43	1	WAT RW	130	1	WAT RW
44	1	WAT RW	131	1	WAT RW
45	1	WAT RW	132	1	WAT RW
46	1	WAT RW	133	1	WAT RW
47	1	WAT RW	134	1	WAT RW
48	1	WAT RW	135	1	WAT RW
49	1	WAT RW	136	1	WAT RW
50	1	WAT RW	137	1	WAT RW
51	1	WAT RW	138	1	WAT RW
52	1	WAT RW	139	1	WAT RW
53	1	WAT RW	140	1	WAT RW
54	1	WAT RW	141	1	WAT RW
55	1	WAT RW	142	1	WAT RW
56	1	WAT RW	143	1	WAT RW
57	1	WAT RW	144	1	WAT RW
58	1	WAT RW	145	1	WAT RW
59	1	WAT RW	146	1	WAT RW
60	1	WAT RW	147	1	WAT RW
61	1	WAT RW	148	1	WAT RW
62	1	WAT RW	149	1	WAT RW
63	1	WAT RW	150	1	WAT RW
64	1	WAT RW	151	1	WAT RW
65	1	WAT RW	152	1	WAT RW
66	1	WAT RW	153	1	WAT RW
67	1	WAT RW	154	1	WAT RW
68	1	WAT RW	155	1	WAT RW
69	1	WAT RW	156	1	WAT RW
70	1	WAT RW	157	1	WAT RW
71	1	WAT RW	158	1	WAT RW
72	1	WAT RW	159	1	WAT RW
73	1	WAT RW	160	1	WAT RW
74	1	WAT RW	161	1	WAT RW
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141	1	WAT RW	228	1	WAT RW
142	1	WAT RW	229	1	WAT RW
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146	1	WAT RW	233	1	WAT RW
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158	1	WAT RW	245	1	WAT RW
159	1	WAT RW	246	1	WAT RW
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161	1	WAT RW	248	1	WAT RW
162	1	WAT RW	249	1	WAT RW
163	1	WAT RW	250	1	WAT RW



**DEVELOPER**  
 COMPANY: CITY OF CLARKSTON  
 CITY MANAGER ROBIN GOMEZ  
 ADDRESS: 1555 MIDLAND ST  
 CLARKSTON, GA 30021  
 CONTACT: LARRY KAISER  
 PHONE: 404-909-5619  
 EMAIL: KAISER@COCLARKSTON-GA.SERVICES.COM

JASON P. BROWN  
 LEVEL II CERTIFIED  
 DESIGN PROFESSIONAL  
 #53274 - EXP. 05.01.2023  
**24-HOUR CONTACT**  
 STEPHENS PAUL OGLESBY  
 (706) 717-1387

**CONTRACTOR**  
 COMPANY: TBD  
 ADDRESS: -  
 CONTACT: -  
 PHONE: -  
 FAX: -  
 EMAIL: -

**SURVEYOR**  
 COMPANY: GEORGIA CIVIL, INC.  
 ADDRESS: P.O. BOX 896  
 MADISON, GA 30650  
 CONTACT: BRIAN SLATE  
 PHONE: 706-342-1104  
 FAX: 706-342-1105  
 EMAIL: BS@LATE@GEORGIA-CIVIL.COM

**SITE DESIGNER**  
 COMPANY: GEORGIA CIVIL, INC.  
 ADDRESS: P.O. BOX 896  
 MADISON, GA 30650  
 PHONE: 706-342-1104

Utilities/Services shown are for Contractors' convenience. Items are shown schematically and neither the site design professional nor the owner assumes any responsibility for utilities & their actual location. This plan may not show and/or may incorrectly show utilities located on site. Contractor shall be responsible to secure and use the services of a private utility locator firm during the entire course of work and shall pay for said services. Contractor shall locate utilities prior to any disturbance including field verifying location and depth of utilities that are to be saved and protected. Contractor shall notify the site design professional of any utility conflicts prior to installation of new utilities, grading, etc. The Contractor, at their expense, shall be responsible to repair, replace and/or indicate, as necessary, any utilities damaged, whether shown or not. All easement relocation, etc. of utilities shall be coordinated with the respective utility company.

DRAWING DATE:	9.16.2020
DRAWN BY:	JR
CHECKED BY:	TMP
REVISIONS	
DATE:	DESCRIPTION:

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DEMOLITION AND  
 REMOVAL PLAN

Sheet Number  
**C-2.1**





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Project Information

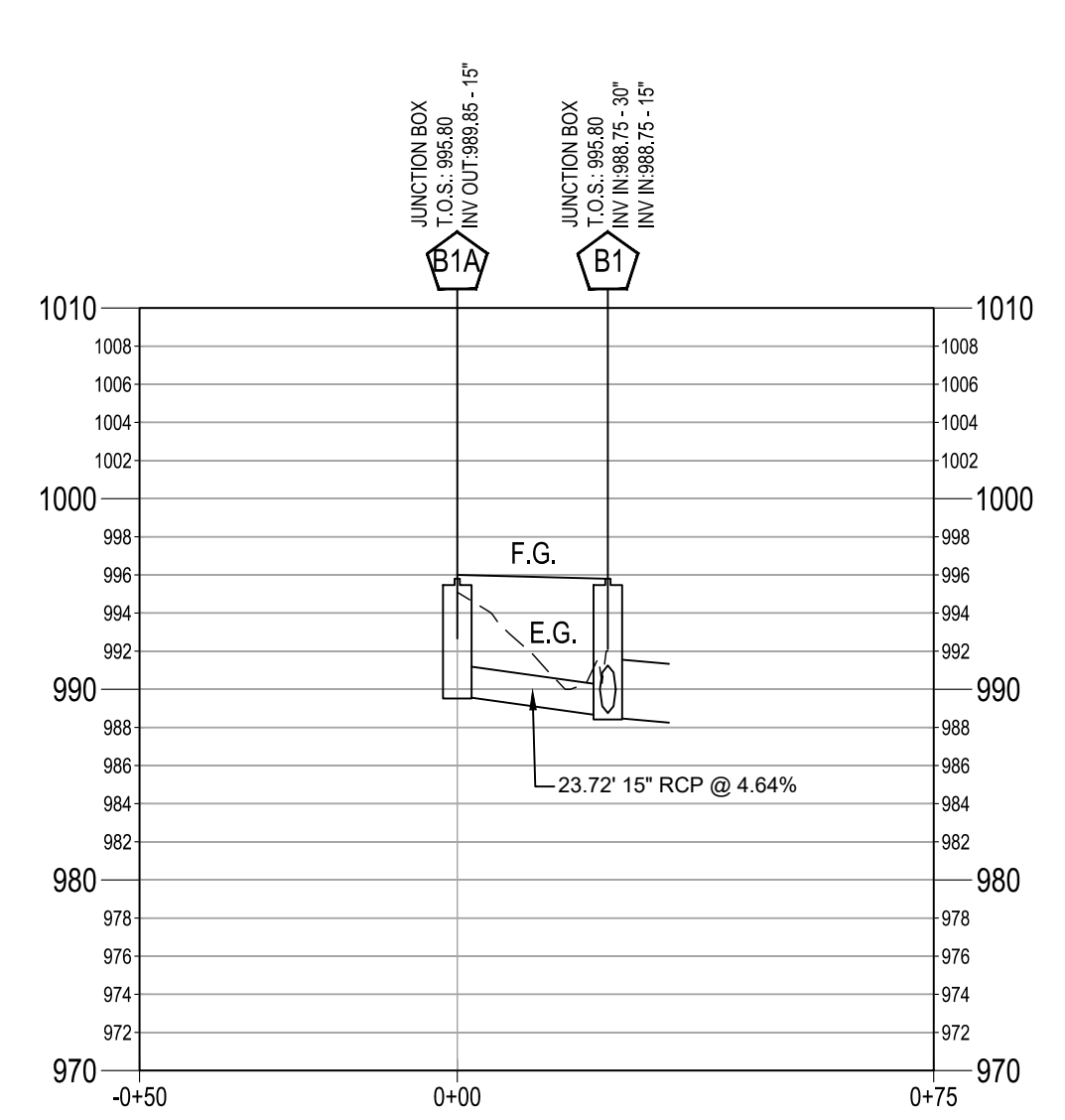
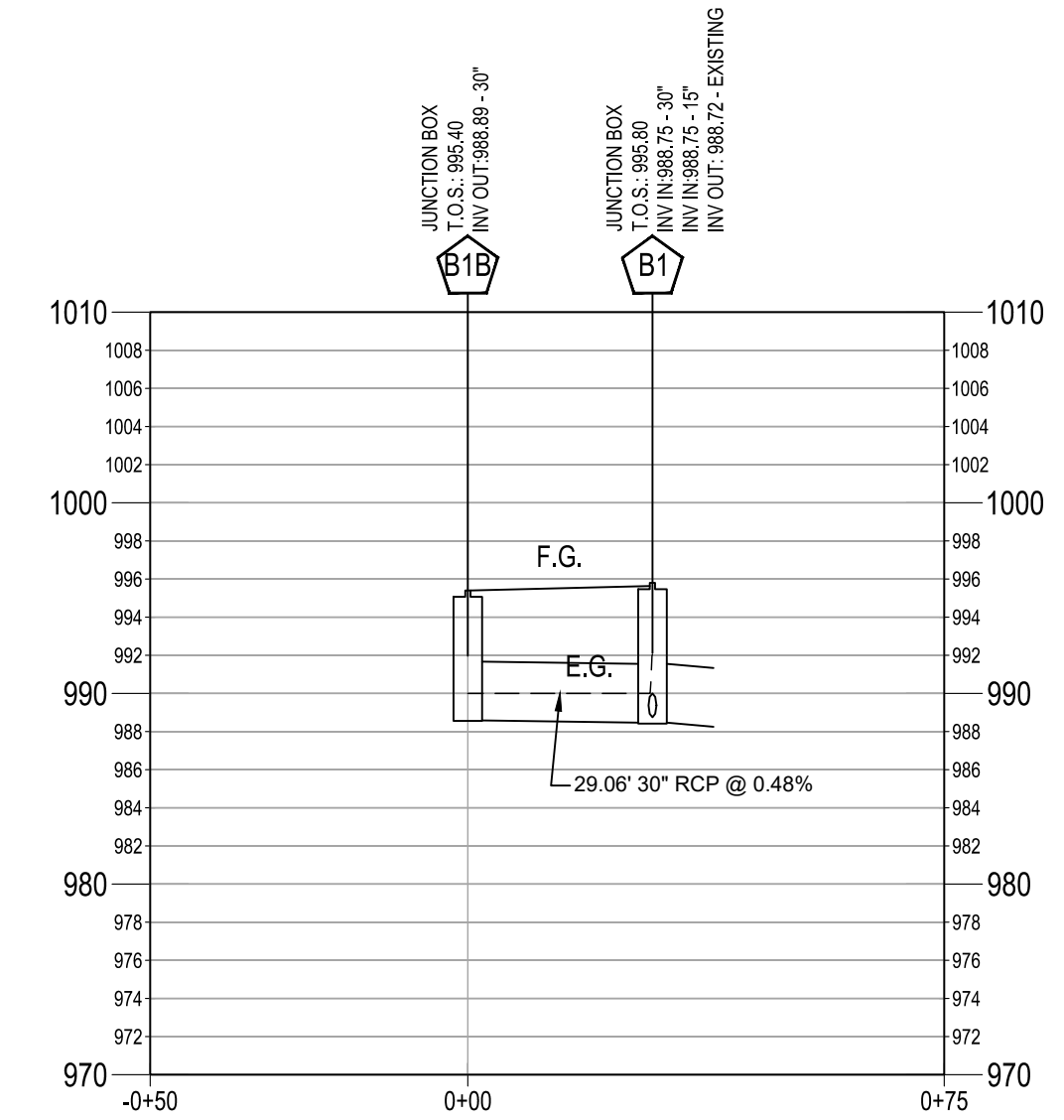
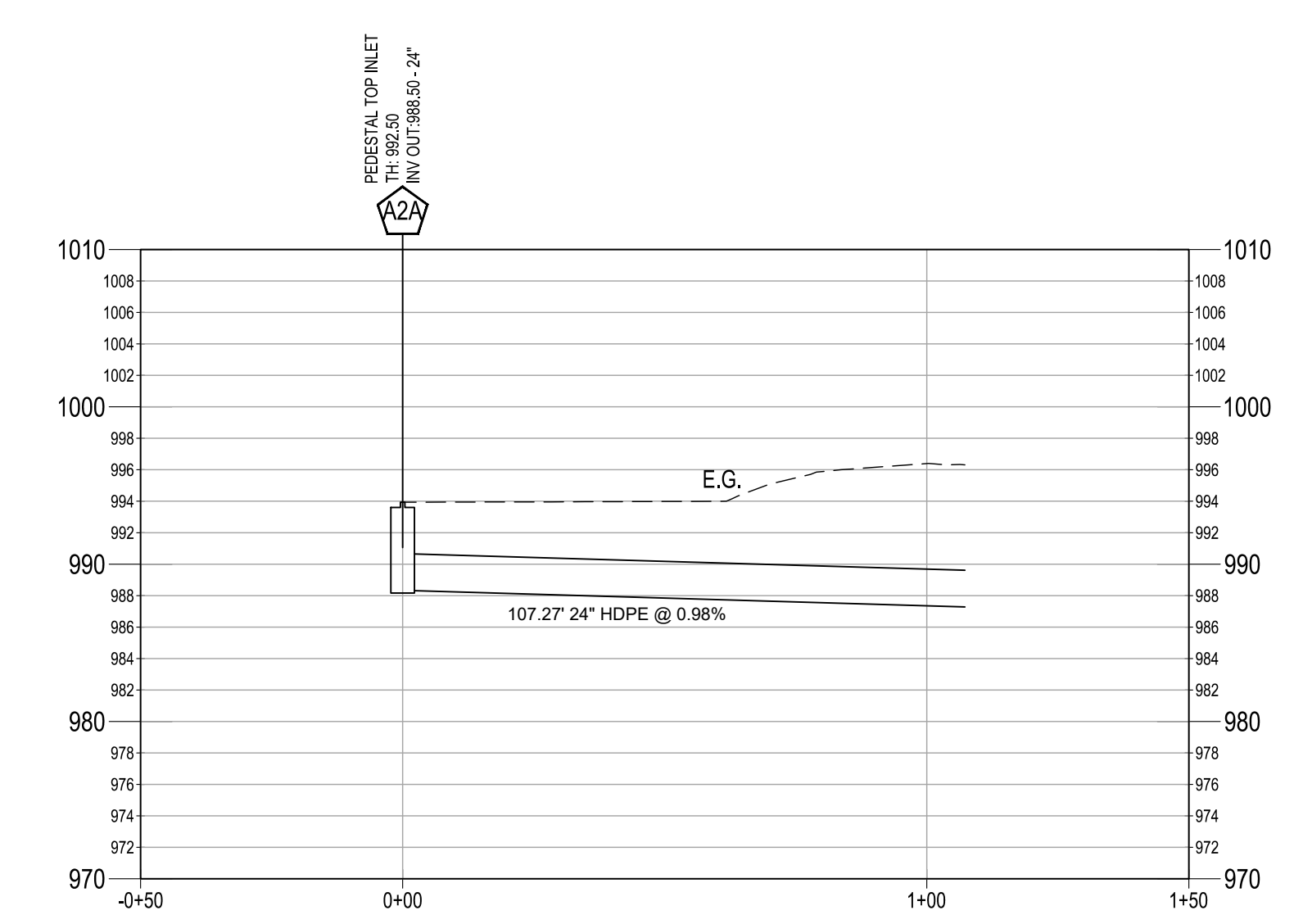
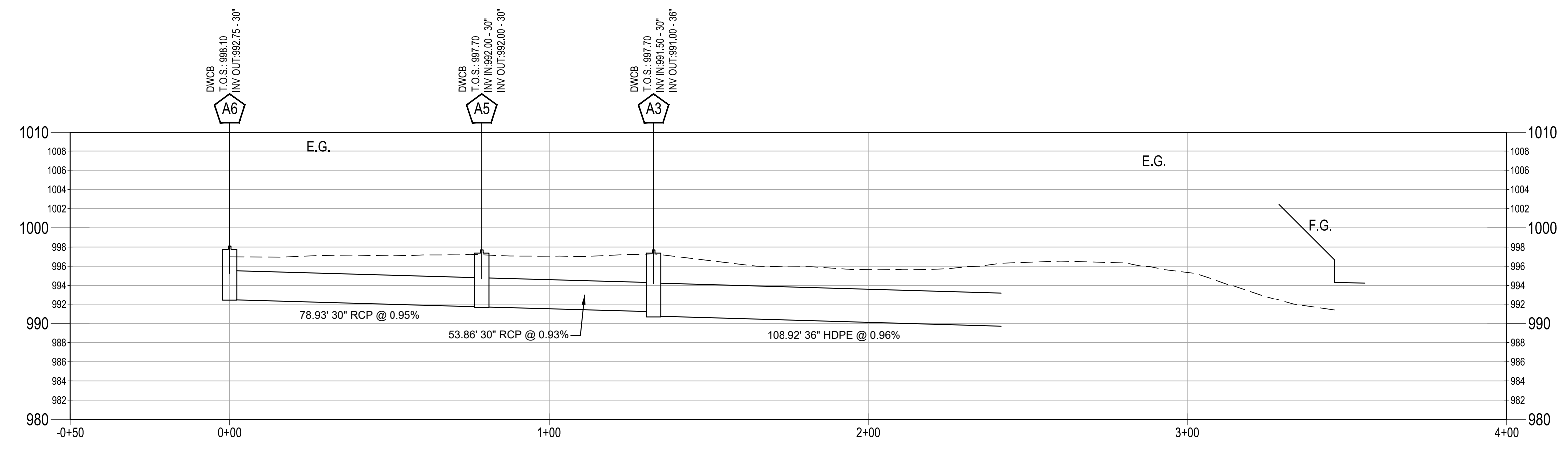
**DEBELLE STREET & ATLANTA AREA SCHOOL FOR THE DEAF STORM IMPROVEMENTS**  
PARCEL NO. : 18-067-01-015 & 18-067-01-016  
890 N INDIAN CREEK DR, CLARKSTON GA, 20021  
ZONING-NC-1

**STORM PIPE PROFILES**

SCALE: HOR: 1" = 30'  
VER: 1" = 10'

MINIMUM COVER REQUIRED = 2 FT  
(PIPES SIZED FOR 25 YR. STORM)

E.G. = EXISTING GRADE  
F.G. = FINISH GRADE



**25 YR STORM PIPE CHART**

Line	ToLine	LineLength (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCoeff. (C)	IncrC x A	TotalC x A	InletTime (min)	TimeConc (min)	Rnfallnt (in/hr)	TotalRunoff (cfs)	AdnlFlow (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevDn (ft)	Inv ElevUp (ft)	HGLDn (ft)	HGLUp (ft)	Grnd/RimDn (ft)	Grnd/RimUp (ft)	Line ID
1	Outfall	105.125	0	11.28	0	0	7.27	5	6.1	7.9	57.59	0	57.59	72.21	10.32	36	1	983	984.05	985.03	986.51	986.75	996.2	A2-A1
2	1	108.918	4.41	9.5	0.7	3.09	6.65	5	5.5	8.1	53.89	0	53.89	43.62	10.98	30	0.96	990.45	991.5	992.95	994.55	996.2	997.25	A3-A2
3	2	53.856	1.49	5.09	0.7	1.04	3.56	5	5.3	8.2	29.04	0	29.04	42.81	5.92	30	0.93	991.5	992	997.36	997.6	997.25	997.25	A4-A3
4	3	78.933	3.6	3.6	0.7	2.52	2.52	5	5	8.2	20.78	0	20.78	43.31	4.23	30	0.95	992	992.75	997.87	998.04	997.25	997.25	A5-A4
5	1	107.27	1.78	1.78	0.35	0.62	0.62	5	5	8.2	5.14	0	5.14	24.24	5.26	24	0.98	987.45	988.5	988.08	989.3	996.2	992.25	A2A-A2

JASON P. BROWN  
LEVEL II CERTIFIED DESIGN PROFESSIONAL  
#53274 - EXP. 05.01.2023

24-HOUR CONTACT  
LARRY KAISER  
404-909-5619

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**DEVELOPER**  
COMPANY: CITY OF CLARKSTON  
CITY MANAGER ROBIN GOMEZ  
ADDRESS: 1055 ROWLAND ST  
CLARKSTON, GA 30021  
CONTACT: LARRY KAISER  
PHONE: 404-909-5619  
EMAIL: KAISER@CO-INFRA-SERVICES.COM

**CONTRACTOR**  
COMPANY: TBD  
ADDRESS: -

**SURVEYOR**  
COMPANY: GEORGIA CIVIL, INC.  
ADDRESS: P.O. BOX 896  
MADISON, GA 30650  
CONTACT: BRIAN SLATE  
PHONE: 706-342-1104  
FAX: 706-342-1105  
EMAIL: bslate@georgiacivil.com

**SITE DESIGNER**  
COMPANY: GEORGIA CIVIL, INC.  
ADDRESS: P.O. BOX 896  
MADISON, GA 30650  
PHONE: 706-342-1104

DRAWING DATE:	01.21.2020
DRAWN BY:	JPB/MS
CHECKED BY:	JPB
DATE:	09.17.20
DESCRIPTION:	COMMENTS

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Sheet Title  
**STORMWATER SYSTEM PROFILES**

Sheet Number  
**C-3.2**



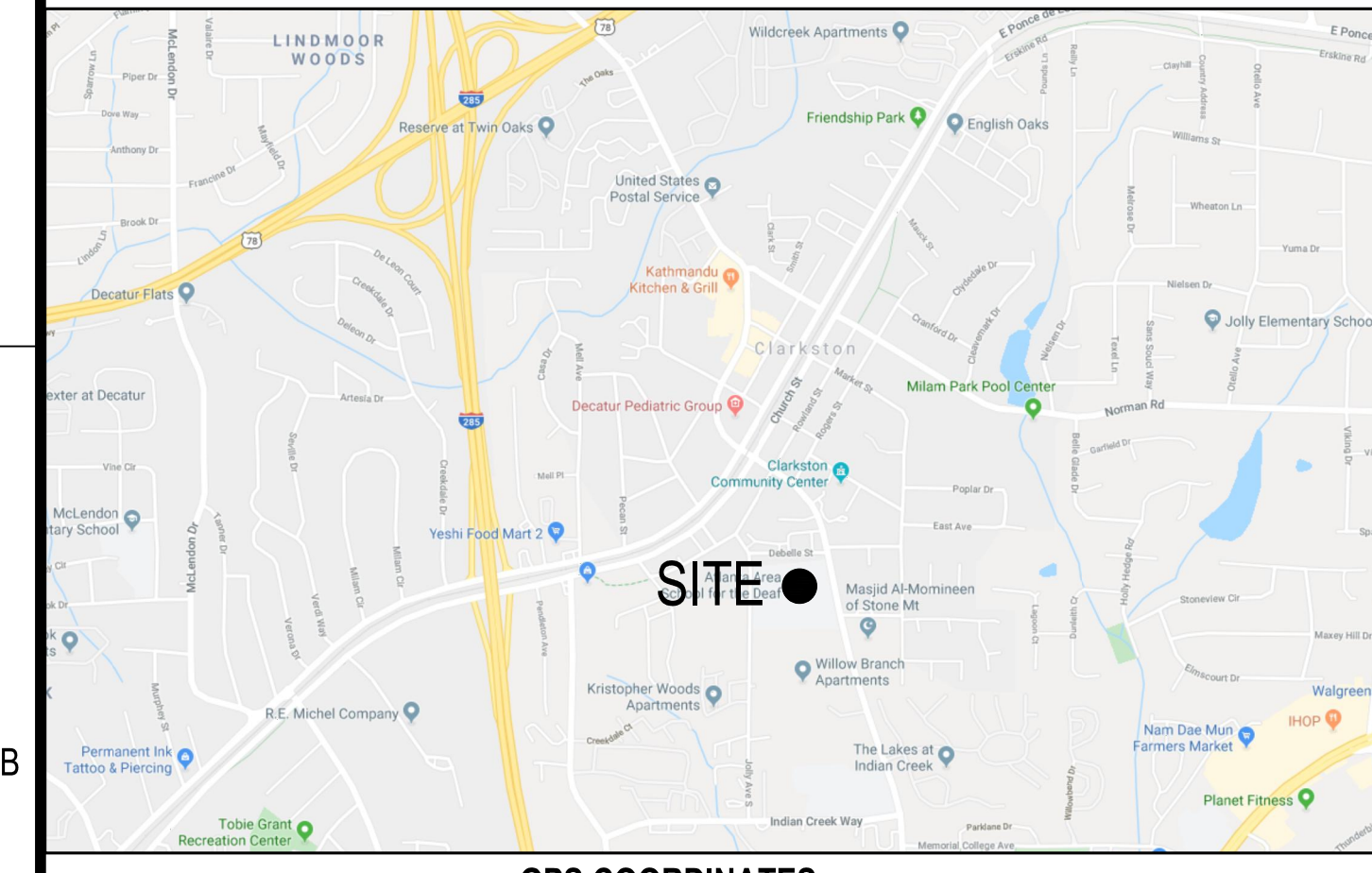




**CONTACT INFORMATION:**  
CITY OF CLARKSTON  
1055 ROWLAND ST., CLARKSTON, GA 30021  
LARRY KASER  
KANSR@CITY-CLARKSTON.GA.GOV  
404-965-5619

**NATURE OF CONSTRUCTION ACTIVITY:**  
PROJECT LOCATION: 18-07-0175 & 18-07-0176  
PROJECT ADDRESS: 880 N INDIAN CREEK DR., CLARKSTON, GA 30021  
PROJECT TYPE: STORM DRAINAGE IMPROVEMENTS  
NEW/REPAIRS TO BE MADE: STORM DRAINAGE, STORM STRUCTURES AND CONVEYANCE, EROSION AND POLLUTION CONTROL MEASURES.

**ESTIMATE OF RUNOFF COEFFICIENT OR PEAK DISCHARGE FLOW PRE AND POST DEVELOPMENT CONDITIONS:**  
PRE ON VALUE: 71  
PRE ON VALUE: 71  
POST @ 25%R (CFS): 141  
POST @ 25%R (CFS): 37



**VICINITY MAP NOT TO SCALE**

**GPS COORDINATES**  
N 83°48'10.80"  
W -84°14'28.69"  
N 83.8030  
W -84.2413

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 direct supervision.

Signature: [Signature] Date: 01.21.2020  
SIGNATURE OF PLAN PREPARER AND DATE

**EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN CERTIFICATION:**

I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of Best Management Practices (BMPs) required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control" published by the State Soil and Water Conservation Commission as of January 1, 2017, or the latest edition of the manual. I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of Best Management Practices (BMPs) required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control" published by the State Soil and Water Conservation Commission as of January 1, 2017, or the latest edition of the manual. I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of Best Management Practices (BMPs) required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control" published by the State Soil and Water Conservation Commission as of January 1, 2017, or the latest edition of the manual.

Signature: [Signature] Date: 01.21.2020  
SIGNATURE OF PLAN PREPARER AND DATE

I certify that, as the professional who prepared the ES&PC Plan, I will inspect the installation of the initial phase of Erosion, Sedimentation, and Pollution Control approved BMPs shown on the plan within 7 days after initial construction activity begins.

Signature: [Signature] Date: 01.21.2020  
SIGNATURE OF PLAN PREPARER AND DATE

**STATE WATERS BUFFER STATEMENT:**

Non-exempt activities shall not be conducted within the 25 or 50 foot undisturbed stream buffers as measured from the point of vested vegetation or within 25 feet of the coastal riparian buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variance and permit.

NPDES Permit Part IV.

(i). No construction activities shall be conducted within a 25 foot buffer along the banks of all state waters, as measured horizontally from the point where vegetation has been removed by normal stream flow or wave action, except where the Director has determined to allow a variance that is at least as protective of natural resources and the environment in accordance with the provisions of O.C.G.A. 12-2-6, 12-2-7, or where a drainage structure or a roadway drainage structure must be constructed, provided that adequate erosion control measures are incorporated in the project plans and specifications and are implemented, or along any ephemeral stream, or where subleakage and seepage must be constructed to prevent the erosion of the shoreline on Lake Oconee and Lake Sinclair.

(ii). No construction activities shall be conducted within a 50 foot buffer, as measured horizontally from the point where vegetation has been removed by normal stream flow or wave action, along the banks of any state waters classified as " trout streams " except when approval is granted by the Director for alternate buffer requirements in accordance with the provisions of O.C.G.A. 12-2-6, 12-2-7, or where a roadway drainage structure or a roadway drainage structure must be constructed, provided that adequate erosion control measures are incorporated in the project plans and specifications and are implemented, or along any ephemeral stream, or where subleakage and seepage must be constructed to prevent the erosion of the shoreline on Lake Oconee and Lake Sinclair.

(iii). No construction activities shall be conducted within a 50 foot buffer, as measured horizontally from the point where vegetation has been removed by normal stream flow or wave action, along the banks of any state waters classified as " trout streams " except when approval is granted by the Director for alternate buffer requirements in accordance with the provisions of O.C.G.A. 12-2-6, 12-2-7, or where a roadway drainage structure or a roadway drainage structure must be constructed, provided that adequate erosion control measures are incorporated in the project plans and specifications and are implemented, or along any ephemeral stream, or where subleakage and seepage must be constructed to prevent the erosion of the shoreline on Lake Oconee and Lake Sinclair.

(iv). For buffers required pursuant to Part IV (i), (ii), and (iii), and (iv), no construction activities shall be conducted within a buffer and a buffer shall remain in its natural, undisturbed, state of vegetation until all construction activity is completed. During coverage under the permit, a buffer cannot be felled or trimmed or degraded. Protective vegetative cover must remain to protect water quality and aquatic habitat and a natural canopy must be left in sufficient quantity to keep shade on the stream bed or marsh.

**BUFFER ENCROACHMENTS DESCRIPTION AND VARIANCE:**

NO NE REQUIRED

**GSWCC EROSION CONTROL NOTES:**

- Any amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional.
- Water materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit.
- 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.
- 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.
- 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 and treat the sediment source.
- Any disturbance left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.

**ADDITIONAL EROSION CONTROL NOTES:**

- Maximum cut slopes are 2:1, horizontal to 1 vertical, unless otherwise noted.
- Maximum fill slopes are 3:1, horizontal to 1 vertical, unless otherwise noted.
- All buffers, tree save areas, and/or limits of disturbance shall be clearly marked in the field by the contractor by flagging or fencing and signage, prior to commencement of any land disturbing activities or design/regrading activities. Buffer, tree save areas, and areas beyond limits of disturbance are to be left undisturbed in their natural state.
- Contractor shall not disturb underground utilities while installing Erosion, Sedimentation and Pollution Control Practices. Contractor shall have all utilities field located before proceeding with any work.
- Contractor shall notify design professional 48 hours before beginning each phase of construction.
- Contractor shall notify (Local Issuing Authority) inspectors 24 hours before beginning each phase of construction.
- Construction debris and/or waste shall not be buried or buried on site. All construction debris and/or waste shall be taken to a state approved landfill.
- All buffers and tree save areas shall be clearly identified by flagging and/or fencing prior to commencement of any land disturbing activities.
- The installation of erosion and sedimentation control measures and practices shall occur prior to land disturbing activities and construction on the site and shall be maintained until permanent ground cover is established to 70% of 100% of the disturbed area.
- All Erosion, Sedimentation and Pollution Control best management practices shall be inspected and repaired as damage. Any accumulated silt shall be removed and spread on site and controlled with temporary mulching and/or grass.
- Maintenance of all soil erosion and sedimentation control measures and practices whether temporary or permanent shall be the responsibility of the contractor. The Owner shall be responsible for making sure the Contractor is properly performing this maintenance.
- Any discrepancy within these plans shall be referred to the design professional by the contractor for clarification before proceeding with work.
- Sediment storage maintenance indicators must be installed in sediment storage structures, indicating the 1/3 full volume.
- Contractor shall provide temporary diversion berms and down drains on fill slopes to prevent erosion prior to stabilization.
- Contractor shall remove accumulated sediment from detention basin at end of construction when all disturbed areas have been fully stabilized.

ANY REFERENCE TO PERMIT IS REFERRING TO NPDES PERMIT NO. GAR10001.

This plan has been prepared to meet the requirements under the State of Georgia, Department of Natural Resources, Environmental Protection Division (EPD), General Permit No. GAR10001 for authorization to discharge under the National Pollution Discharge Elimination System (NPDES), Stormwater Discharges Associated with Construction Activity for Stand Alone Construction Projects. Daily, weekly and monthly inspections as required by Permit No. GAR10001 shall be performed by certified personnel provided by the Contractor. Sampling requirements as required by Permit No. GAR10001 shall be performed by certified personnel provided by the Contractor.

Contractor shall make sure construction is in accordance with regulations of the NPDES Permit No. GAR10001. This includes but is not limited to:

- \*Silt stabilization practices
- \*BMP maintenance and inspections
- \*Spill control practices
- \*Waste control practices
- \*Monitoring plans and practices
- \*Vegetative and structural erosion control practices
- \*Pollution prevention plan and practices
- \*Material management practices for spill prevention plans
- \*Wetland and state water protection practices
- \*Regrading practices

**POLLUTION REDUCTION PRACTICES FOR STORM WATER DISCHARGES:**

**STABILIZATION (VEGETATIVE) MEASURES:**  
ALL STABILIZATION (VEGETATIVE) MEASURES SHALL BE IMPLEMENTED AS STATED IN THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA (LATEST EDITION).

(B) Buffer Zone - A strip of undisturbed, original vegetation enhanced or restored existing vegetation or re-establishment of vegetation surrounding disturbed areas or bordering streams, ponds, wetlands, lakes, or coastal water to provide a buffer zone for one or more of the following purposes: reduce storm runoff velocities, act as visual screen, reduce construction noise, improve erosion on disturbed land, filtering and infiltrating runoff, cooling rivers/streams by creating shade, provide food and cover for wildlife, flood protection, or protect channel banks from scour and erosion.

(D1) Disturbed Area Stabilization with Mulching Only - Applying plant residues or other suitable materials, produced on site if possible, to the soil surface in order to reduce runoff, conserve soil, and improve aesthetics. Mulching shall be applied to exposed soil, mostly soil temperature, or increase biological activity in the soil. This practice is applicable where stabilizing disturbed areas is not practical utilizing seeding or planting.

(D2) Disturbed Area Stabilization (with Temporary Seeding) - Establishing temporary vegetative cover with fast growing seedlings for seasonal protection on disturbed/undisturbed areas in order to reduce runoff and sediment. The presence of a protective sod cover is essential to human health, welfare, or safety, or to animals or plant life. Methods and materials which are organic matter for permanent plantings. This practice is applicable for up to six months or until permanent vegetative cover can be installed. It should be coordinated with permanent measures to ensure economical and effective results.

(D3) Disturbed Area Stabilization (Permanent Vegetation) - Planting of permanent vegetation such as trees, shrubs, vines, or ligules on exposed areas for final permanent stabilization in order to protect the soil surface from erosion, reduce damage from runoff to downstream areas, improve wildlife habitat and visual resources, and improve aesthetics. It will apply on cut and fill slopes, earth spillways, borrow areas, spoil areas and severely eroded or gullied lands.

(D4) Disturbed Area Stabilization (with Seeding) - Establishing an immediate and permanent vegetative cover using sods in order to reduce runoff and erosion, improve aesthetics and land stabilization in order to provide a level surface, reduce erosion, reduce sediment for spreading of permanent roadways, and provide a stable base for paving.

(F)(C) Floculants and Coagulants - Formulated to assist in the solid/liquid separation of suspended solids, inorganic, bacterial, chemical, and some surface coverages. The suspended stability of particles (colloidal complex) is due to both their small size and the electrical charge between particles.

(S) Streambank Stabilization (Using Permanent Vegetation) - Using native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems in order to lessen the impact of rain directly on the soil, trap sediment from adjacent land, form a root mat to stabilize and reinforce the soil on the streambank, provide wildlife habitat, enhance stream appearance, and lower streambank water levels.

(S) Slope Stabilization - A protective covering used to prevent erosion and establish vegetation on steep slopes, stone lines, or channels in order to stabilize the soil and act as a rain drop impact dissipater while providing a microclimate which protects young vegetation and promotes its establishment.

(T)(a) Tacklers - Substances used to anchor soil, compost, sand, straw, hay or mulch by causing organic material to bind together and discourage it from drifting downwind. Tacklers also conserve materials, prevent soil erosion, increase soil infiltration, soil fertility, enhanced seed germination, increased soil cohesion, enhanced soil stabilization, reduce stormwater turbidity runoff and reduce loss of topsoil.

**STRUCTURAL PRACTICES:**

ALL STRUCTURAL PRACTICES SHALL BE IMPLEMENTED AS STATED IN THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA (LATEST EDITION).

(C) Check Dam - A small temporary barrier, grade control structure, or drain constructed across a swale or drainage ditch which drains flow (S) across or (not used in a live stream) in order to reduce erosion by slowing the velocity of concentrated storm water flows.

(C) Channel Stabilization/Improvement - Providing or stabilizing an open channel for water conveyance. Open channels are to be non-erosive, with no sediment deposition and able to provide adequate capacity for flow, drainage, erosion, or any combination thereof.

(C) Construction Exit - A stone stabilized pad located where traffic leaves a construction site to a public right-of-way, street, alley, sidewalk, parking, etc. (i.e. bare soil to paved area) in order to reduce/maintain depositing construction area mud onto public rights-of-way by motor vehicles or by runoff.

(C) Construction Road Stabilization - Roads, parking areas, and other on-site transportation routes that are stabilized with coarse aggregate between the time of initial grading and final stabilization in order to provide a level road surface for construction equipment, reduce sediment for spreading of permanent roadways, and provide a stable base for paving.

(C) Stream Diversion Channel - A temporary channel that diverts a live stream and allows flow "in the dry" while protecting streambeds from erosion. This diversion is used when in-stream work is unavoidable, as with linear projects such as utilities or roads that frequently cross and impact live streams and create a potential for excessive sediment loss to both the disturbance of the approach areas and by the work within the stream channel.

(D) Diversion - An earth channel with a constructed sloping ridge on the lower side; constructed above, or below a slope to reduce slope lengths, break-up concentrations of runoff, interrupt runoff, and move water to stable outlets at non-erosive velocities.

(D) Temporary Downstream Structure - A flexible conduit of heavy-duty plastic or other material used as a temporary structure to convey storm water down the face of a cut or fill slope during slope erosion and allowing the establishment of vegetation on the slope. Flexible conduits are removed once the permanent water disposal system is installed.

(D) Temporary Downstream Structure - A temporary structure, pipe or conduit of precast material designed to safely conduct runoff from the top to the bottom of a slope thus minimizing erosion. Downstream structures are to be used where concentrated water will cause excessive erosion of cut and fill slopes.

(F) Filter Ripe - A temporary stone barrier used in conjunction with other sediment control measures and constructed of storm drain inlets and pond outlets, in order to reduce flow velocities, prevent failure of other sediment control devices, and prevent sediment from leaving the site or entering drainage systems, prior to permanent stabilization of the disturbed areas.

(G) Gabion - Large, multi-celled, wire mesh boxes, filled with rocks, which form flexible monolithic bulkhead blocks used in channel reinforcements, retaining walls, abutments, check dams, etc. to prevent erosion and sediment discharge to a specific structure. When properly wired together, they can be used to stabilize steep or highly erosive slopes.

(G) Grade Stabilization Structure - Structures of concrete, rock masonry, steel aluminum, treated wood, etc. that are installed to stabilize the grade in natural or artificial channels and to prevent the formation or advance of gullies and to reduce erosion and sediment pollution.

(L) Level Spreader - A storm flow outlet device constructed of a zero grade across a slope where concentrated runoff may be intercepted and diverted at non-erosive sheet flow velocities into a disturbed area.

(R) Rock Filter Dam - A permanent or temporary stone filter dam, which can be used in conjunction with a temporary sediment trap, installed across small streams, drainageways with a drainage area of 50 acres or less and/or for sediment traps in order to serve as a sediment-filtering device and to reduce storm water flow velocities. This structure is not intended to be used for sediment storage.

(R) Retaining Wall - A constructed wall of concrete, masonry, reinforced concrete, cribbing, treated timbers, gabions, stone dry wall, rip-rap or other durable material in order to stabilize cut or fill slopes where maximum permissible slopes of earth are not obtainable without the use of the wall.

(R) Retaining Wall - A device or structure, such as half round corrugated metal pipe or similar, placed in front of a permanent stormwater detention pond outlet or roadway drainage structure to serve as a temporary sediment trap allowing sediment to settle in the pond before entering the structure. Structures shall be constructed of concrete, masonry, or steel, and shall be designed to allow runoff to pass over the top of the structure. Structures shall be designed to prevent sediment from entering the structure, and shall be designed to prevent sediment from entering the structure.

(S) Sediment Basin - A temporary structure constructed of all fence, straw, hay bales, brush, piles, mulch, burlap, concrete, soil sack, gravel, or other filtering materials typically supported by a wall of wood pilings. Sediment basins are to be used to prevent sediment from leaving the site or entering drainage systems, prior to permanent stabilization of the disturbed areas.

(S) Inlet Sediment Trap - A temporary protective device formed at or around a storm drain inlet trap to sediment in runoff water from small, disturbed areas and prevent sediment from entering a storm drainage system prior to permanent stabilization of the disturbed area draining to the inlet. Clean out of these facilities is normally required after each heavy rain.

(S) Temporary Sediment Basin - A basin constructed by construction of an embankment, barrier or dam containing a principal spillway device, and an emergency spillway that are normally situated in a stream channel. Sediment basins are to be used to prevent sediment from leaving the site or entering drainage systems, prior to permanent stabilization of the disturbed areas.

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(S) Temporary Sediment Basin - A basin constructed by construction of an embankment,

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 direct supervision.

Signed: *Jason P. Brown* Date: 01.21.2020  
SIGNATURE OF PLAN PREPARER AND DATE

**EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN CERTIFICATION:**

I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of Best Management Practices (BMPs) required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment 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.

Signed: *Jason P. Brown* Date: 01.21.2020  
Georgia Civil Inc.  
JASON P. BROWN  
Level II Certified Design Professional #52374 - Exp. 5-1-2023

I certify that I, as the professional who prepared the ES&PC Plan, will inspect the installation of the initial phase of Erosion, Sedimentation, and Pollution Control approved BMPs shown on the plan within 7 days after initial construction activity begins.

Signed: *Jason P. Brown* Date: 01.21.2020  
SIGNATURE OF PLAN PREPARER AND DATE

**GEORGIA UNIFORM CODING SYSTEM  
SOIL EROSION & SEDIMENT CONTROL**

STRUCTURAL PRACTICES					
Code	Practice	Symbol	Code	Practice	Symbol
Cd-Fs	Compost Filter Sock	[Symbol]	ISd-1	Inlet Sediment Trap (Gravel Drop)	[Symbol]
Cd-Fd	Compost Filter Dam	[Symbol]	ISd-2	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Cd-S	Stone Check Dams	[Symbol]	ISd-3	Inlet Sediment Trap (Slope Inlet Protection)	[Symbol]
Ch-1	Channel Stabilization Category (Vegetated)	[Symbol]	ISd-4	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Ch-2	Channel Stabilization Category (Rip-Rap, TSM)	[Symbol]	ISd-5	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Ch-3	Channel Stabilization Category (Concrete)	[Symbol]	ISd-6	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Co	Construction	[Symbol]	ISd-7	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Cr	Construction Road Stabilization	[Symbol]	ISd-8	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Dca-A	Stream Diversion Channel (Geotextile, Soil, or Polyethylene)	[Symbol]	ISd-9	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Dca-B	Stream Diversion Channel (Geotextile alone)	[Symbol]	ISd-10	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Dca-C	Stream Diversion Channel (Class I Rip-Rap and Geotextile)	[Symbol]	ISd-11	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
D	Diversion	[Symbol]	ISd-12	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Dn1	Temporary Down-drain Structure	[Symbol]	ISd-13	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Dn2	Permanent Down-drain Structure	[Symbol]	ISd-14	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Fr	Filter Ring	[Symbol]	ISd-15	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Ga	Gabion	[Symbol]	ISd-16	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Gs	Grade Stabilization Structure	[Symbol]	ISd-17	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Lv	Level Spreader	[Symbol]	ISd-18	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Rd	Rock Filter Dam	[Symbol]	ISd-19	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Re	Retaining Wall	[Symbol]	ISd-20	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Rd-B	Retrotiff (Stilted Board Dam w/ Stone or Filter Fabric)	[Symbol]	ISd-21	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Rd-P	Retrotiff (Performing Half-Round Pipe w/ Stone Filter)	[Symbol]	ISd-22	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Rd-Sp	Retrotiff (Silt Control Gate)	[Symbol]	ISd-23	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Sd1-BB	Sediment Barrier (Type = Rip-Rap)	[Symbol]	ISd-24	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Sd1-NB	Sediment Barrier (Type = Non-Sensitive Areas)	[Symbol]	ISd-25	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Sd1-S	Sediment Barrier (Type = Sensitive Areas)	[Symbol]	ISd-26	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Sd1-C	Sediment Barrier (Type = Composite Filter Media Sock)	[Symbol]	ISd-27	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
ISd-1	Inlet Sediment Trap (Block & Gravel, Drop Inlet Protection)	[Symbol]	ISd-28	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
ISd-2	Inlet Sediment Trap (Exposed Inlet Sediment Filter)	[Symbol]	ISd-29	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
ISd-3	Inlet Sediment Trap (Filter Fabric w/ Supporting Frame)	[Symbol]	ISd-30	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]

**VEGETATIVE MEASURES**

Bf	Buffer Zone	[Symbol]	Bf	Buffer Zone	[Symbol]
Cs	Coastal Dune Stabilization (w/ Vegetation)	[Symbol]	Cs	Coastal Dune Stabilization (w/ Vegetation)	[Symbol]
Ds1	Disturbed Area Stabilization (w/ Mulching Only)	[Symbol]	Ds1	Disturbed Area Stabilization (w/ Mulching Only)	[Symbol]
Ds2	Disturbed Area Stabilization (w/ Permanent Seeding)	[Symbol]	Ds2	Disturbed Area Stabilization (w/ Permanent Seeding)	[Symbol]
Ds3	Disturbed Area Stabilization (w/ Permanent Vegetation)	[Symbol]	Ds3	Disturbed Area Stabilization (w/ Permanent Vegetation)	[Symbol]
Ds4	Disturbed Area Stabilization (w/ Seeding)	[Symbol]	Ds4	Disturbed Area Stabilization (w/ Seeding)	[Symbol]
Du	Dust Control on Disturbed Areas	[Symbol]	Du	Dust Control on Disturbed Areas	[Symbol]
FH-Co	Flocculants Coagulants	[Symbol]	FH-Co	Flocculants Coagulants	[Symbol]
Sb	Slope Stabilization (Using Permanent Vegetation)	[Symbol]	Sb	Slope Stabilization (Using Permanent Vegetation)	[Symbol]
Sa	Slope Stabilization (Rolled Erosion Control Products (RECPs))	[Symbol]	Sa	Slope Stabilization (Rolled Erosion Control Products (RECPs))	[Symbol]
Tac-1	Tackifiers: Type I (Synthetic Polymers)	[Symbol]	Tac-1	Tackifiers: Type I (Synthetic Polymers)	[Symbol]
Tac-2	Tackifiers: Type II (Organic Polymers)	[Symbol]	Tac-2	Tackifiers: Type II (Organic Polymers)	[Symbol]
Tac-3	Tackifiers: Type III (Organic Blends)	[Symbol]	Tac-3	Tackifiers: Type III (Organic Blends)	[Symbol]
Tac-4	Tackifiers: Type IV (Organic Tackifiers)	[Symbol]	Tac-4	Tackifiers: Type IV (Organic Tackifiers)	[Symbol]
Tac-5	Tackifiers: Type V (Synthetic Organic Blends w/ Synthetic Fibers)	[Symbol]	Tac-5	Tackifiers: Type V (Synthetic Organic Blends w/ Synthetic Fibers)	[Symbol]

**1.08 AC DISTURBED AREA PH I**

Maintenance of all soil erosion and sedimentation control measures and practices, whether temporary or permanent, shall be at all times the responsibility of the property owner.

**GSWCC EROSION CONTROL NOTES:**

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.  
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.  
Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.  
Any amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional.

**DEVELOPER**

COMPANY: CITY OF CLARKSTON  
CITY MANAGER ROBIN GOMEZ  
ADDRESS: 1055 ROWLAND ST  
CLARKSTON, GA 30021

CONTACT: LARRY KAISER  
PHONE: 404-909-5619  
EMAIL: KAISER@CO-CLARKSTON-GA.GOV

**CONTRACTOR**

COMPANY: TBD  
ADDRESS:

**SURVEYOR**

COMPANY: GEORGIA CIVIL, INC.  
ADDRESS: P.O. BOX 896  
MADISON, GA 30650

CONTACT: BRIAN SLATE  
PHONE: 706-342-1104  
FAX: 706-342-1105  
EMAIL: BS@GEORGIA811.COM

**SITE DESIGNER**

COMPANY: GEORGIA CIVIL, INC.  
ADDRESS: P.O. BOX 896  
MADISON, GA 30650  
PHONE: 706-342-1104

**JASON P. BROWN  
LEVEL II CERTIFIED  
DESIGN PROFESSIONAL**

#53274 - EXP. 05.01.2023

**24-HOUR CONTACT  
LARRY KAISER**

404-909-5619



Contact 811 before you dig

Utilities shown are for Contractor convenience. Items are shown schematically and neither the site design professional nor the owner assumes any responsibility for utilities in their actual location. This plan may not show and/or may incorrectly show utilities located on site. Contractor shall be responsible to locate and use the services of a private utility locator firm during the entire course of work and shall pay for said services. Contractor shall locate utilities prior to any disturbance including but not limited to excavation, grading, etc. The Contractor at their expense, shall be responsible to repair, replace and/or relocate, as necessary, any utilities damaged, whether shown or not. Abandonment, relocation, etc. of utilities shall be coordinated with the respective utility company.

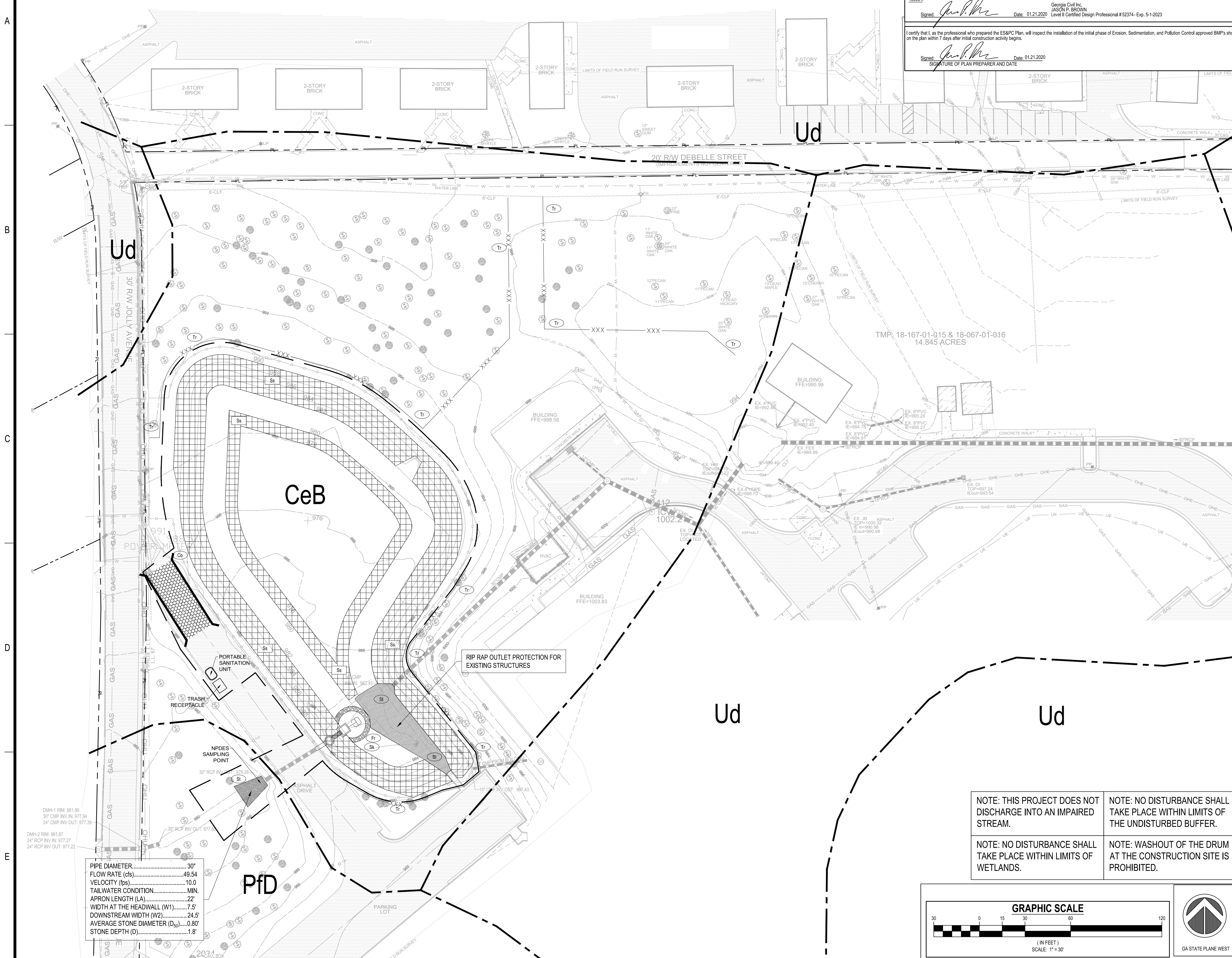
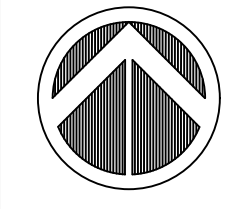
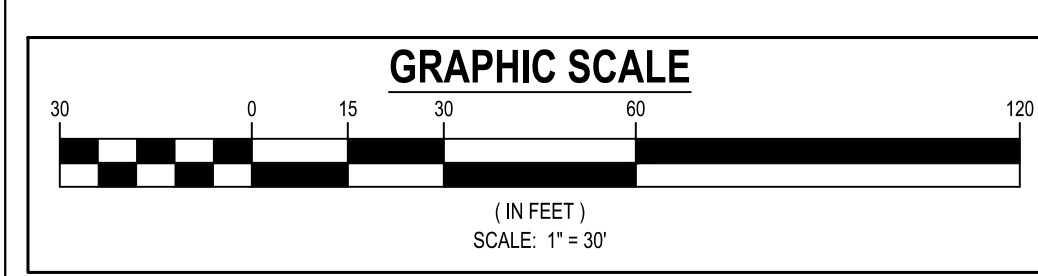
REFER TO SHEET C-1.1 AND C-6.1 FOR EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES

NOTE: THIS PROJECT DOES NOT DISCHARGE INTO AN IMPAIRED STREAM.

NOTE: NO DISTURBANCE SHALL TAKE PLACE WITHIN LIMITS OF WETLANDS.

NOTE: NO DISTURBANCE SHALL TAKE PLACE WITHIN LIMITS OF THE UNDISTURBED BUFFER.

NOTE: WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.



PIPE DIAMETER.....30"

FLOW RATE (cfs).....49.54

VELOCITY (fps).....10.0

TALL WATER CONDITION.....MIN.

APRON LENGTH (LA).....22'

WIDTH AT THE HEADWALL (W1).....7.5'

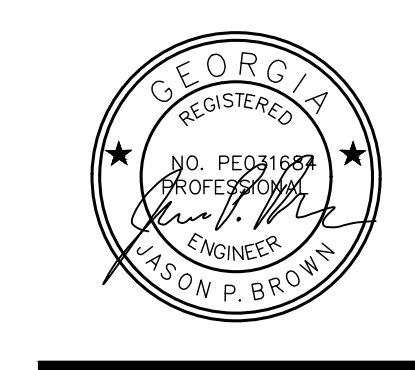
DOWNSTREAM WIDTH (W2).....24.5'

AVERAGE STONE DIAMETER (D50).....0.80'

STONE DEPTH (D).....1.8'



georgia civil  
CIVIL ENGINEERING  
LANDSCAPE ARCHITECTURE  
LAND SURVEYING  
311 N. Main St. Ste. 101, Unit C  
P.O. Box 896 | Madison, GA 30650  
P: 706.342.1104 | F: 706.342.1105  
www.georgiacivil.com



Project Information

DEBELLE STREET & ATLANTA AREA SCHOOL FOR THE DEAF STORM IMPROVEMENTS  
PARCEL NO. : 18-067-01-015 & 18-067-01-016  
890 N INDIAN CREEK DR, CLARKSTON GA, 20021  
ZONING-NC-1

DRAWING DATE:	01.21.2020
DRAWN BY:	JPB/MS
CHECKED BY:	JPB
REVISIONS	
DATE:	DESCRIPTION:
09.17.20	COMMENTS

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INITIAL EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN

Sheet Number

C-4.2

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 direct supervision.

Signed: *Jason P. Brown* Date: 01.21.2020  
SIGNATURE OF PLAN PREPARER AND DATE

**EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN CERTIFICATION:**

I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of Best Management Practices (BMPs) required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment 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 10002.

Signed: *Jason P. Brown* Date: 01.21.2020  
Georgia Civil Inc.  
JASON P. BROWN  
Level II Certified Design Professional # 52374 - Exp. 5-1-2023

I certify that I, as the professional who prepared the ES&PC Plan, will inspect the installation of the initial phase of Erosion, Sedimentation, and Pollution Control approved BMP's shown on the plan within 7 days after initial construction activity begins.

Signed: *Jason P. Brown* Date: 01.21.2020  
SIGNATURE OF PLAN PREPARER AND DATE

**GEORGIA UNIFORM CODING SYSTEM  
SOIL EROSION & SEDIMENT CONTROL**

**STRUCTURAL PRACTICES**

Code	Practice	Symbol	Code	Practice	Symbol
Cd-1	Compost Filter Sock	[Symbol]	IS-1	Inlet Sediment Trap (Gravel Strip)	[Symbol]
Cd-2	Straw-Bale Check Dams	[Symbol]	IS-2	Inlet Sediment Trap (Curb Inlet Protection)	[Symbol]
Cd-3	Stone Check Dams	[Symbol]	IS-3	Inlet Sediment Trap (Slope Inlet Protection)	[Symbol]
Ch-1	Channel Stabilization Category (Vegetation)	[Symbol]	SB	Temporary Sediment Basin	[Symbol]
Ch-2	Channel Stabilization Category (Rip-Rap, TSM)	[Symbol]	ST	Temporary Sediment Trap	[Symbol]
Ch-3	Channel Stabilization Category (Concrete)	[Symbol]	SK	Floating Fiber Surface Skimmer	[Symbol]
Co	Construction	[Symbol]	SB	Seep Berm	[Symbol]
Cr	Construction Road Stabilization	[Symbol]	Sr-B	Temporary Stream Crossing (Bridge)	[Symbol]
Dca-A	Stream Diversion Channel (Geotextile, Soil, or Polyethylene)	[Symbol]	Sr-C	Temporary Stream Crossing (Culvert)	[Symbol]
Dca-B	Stream Diversion Channel (Geotextile alone)	[Symbol]	SD	Storm Drain Outlet Protection	[Symbol]
Dca-C	Stream Diversion Channel (Class I Rip-Rap and Geotextile)	[Symbol]	Su	Surface Roughening	[Symbol]
D	Diversion	[Symbol]	Tc-F	Turbidity Curtain	[Symbol]
Dn1	Temporary Downdrift Structure	[Symbol]	Tc-S	Turbidity Curtain (Shades)	[Symbol]
Dn2	Permanent Downdrift Structure	[Symbol]	TP	Topsoiling	[Symbol]
Fr	Filter Ring	[Symbol]	WH	Vegetated Waterway Conveyance Channel	[Symbol]
Ga	Gabion	[Symbol]			

**VEGETATIVE MEASURES**

G	Grade Stabilization Structure	[Symbol]	BF	Buffer Zone	[Symbol]
Lv	Level Spreader	[Symbol]	Cs	Coastal Dune Stabilization (w/ Vegetation)	[Symbol]
Rd	Rock Filter Dam	[Symbol]	Ds1	Disturbed Area Stabilization (w/ Mulching Only)	[Symbol]
Re	Retaining Wall	[Symbol]	Ds2	Disturbed Area Stabilization (w/ Temporary Seeding)	[Symbol]
Rd-B	Retrotiff (Stilted Board Dam w/ Stone or Filter Fabric)	[Symbol]	Ds3	Disturbed Area Stabilization (w/ Permanent Vegetation)	[Symbol]
Rd-P	Retrotiff (Performing Half-Round Pipe w/ Stone Filter)	[Symbol]	Ds4	Disturbed Area Stabilization (w/ Seeding)	[Symbol]
Rd-Sp	Retrotiff (Silt Control Gate)	[Symbol]	Du	Dust Control on Disturbed Areas	[Symbol]
Sd1-BB	Sediment Barrier (Type I - Rip-Rap Barrier)	[Symbol]	FH-Co	Flocculants Coagulants	[Symbol]
Sd1-NB	Sediment Barrier (Type II - Non-Sensitive Areas)	[Symbol]	Sb	Slope Stabilization (Using Permanent Vegetation)	[Symbol]
Sd1-S	Sediment Barrier (Type III - Sensitive Areas)	[Symbol]	Ss	Slope Stabilization (Rolled Erosion Control Products (RECPs))	[Symbol]
Sd1-C	Sediment Barrier (Type IV - Composite Filter Media Sock)	[Symbol]	Tac-1	Tackifiers: Type I (Synthetic Polymers)	[Symbol]
Sd2-B	Inlet Sediment Trap (Baffle Box)	[Symbol]	Tac-2	Tackifiers: Type II (Organic Polymers)	[Symbol]
Sd2-BB	Inlet Sediment Trap (Block & Gravel, Drop Inlet Protection)	[Symbol]	Tac-3	Tackifiers: Type III (Organic Blends)	[Symbol]
Sd2-C	Inlet Sediment Trap (Expanded Inlet Sediment Filter)	[Symbol]	Tac-4	Tackifiers: Type IV (Organic Tackifiers)	[Symbol]
Sd2-F	Inlet Sediment Trap (Filter Fabric w/ Supporting Frame)	[Symbol]	Tac-5	Tackifiers: Type V (Synthetic Organic Blends w/ Synthetic Fibers)	[Symbol]

**1.83 AC DISTURBED AREA PH II**

REFER TO SHEET C-1.1 AND C-6.1 FOR EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES

Maintenance of all soil erosion and sedimentation control measures and practices, whether temporary or permanent, shall be at all times the responsibility of the property owner.

**GSWCC EROSION CONTROL NOTES:**

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. 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. Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding. Any amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional.

**DEVELOPER**

COMPANY: CITY OF CLARKSTON  
CITY MANAGER ROBIN GOMEZ  
ADDRESS: 1055 ROWLAND ST  
CLARKSTON, GA 30021  
CONTACT: LARRY KAISER  
PHONE: 404-909-5619  
EMAIL: KAISER@CO-INFRASERVICES.COM

**CONTRACTOR**

COMPANY: TBD  
ADDRESS: -  
CONTACT: -  
PHONE: -  
FAX: -  
EMAIL: -

**SURVEYOR**

COMPANY: GEORGIA CIVIL, INC.  
ADDRESS: P.O. BOX 896  
MADISON, GA 30650  
CONTACT: BRIAN SLATE  
PHONE: 706-342-1104  
FAX: 706-342-1105  
EMAIL: BSLATE@GEORGIA-CIVIL.COM

**SITE DESIGNER**

COMPANY: GEORGIA CIVIL, INC.  
ADDRESS: P.O. BOX 896  
MADISON, GA 30650  
PHONE: 706-342-1104

**DEVELOPER**

JASON P. BROWN  
LEVEL II CERTIFIED DESIGN PROFESSIONAL  
#53274 - EXP. 05.01.2023

**24-HOUR CONTACT**

LARRY KAISER  
404-909-5619

**GEORGIA811**

Contact 811 before you dig



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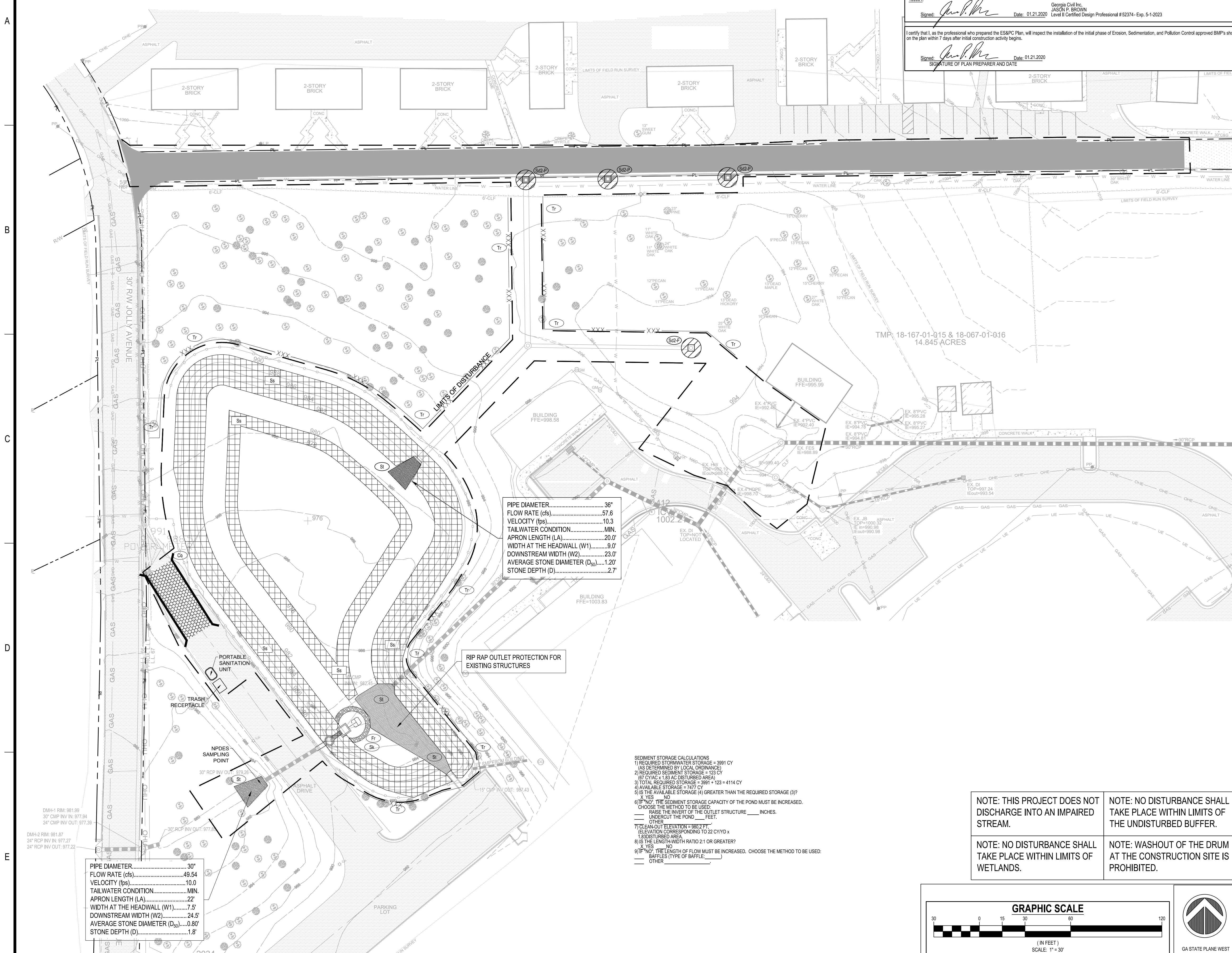


Project Information

DEBELLE STREET & ATLANTA AREA SCHOOL FOR THE DEAF STORM IMPROVEMENTS  
PARCEL NO. : 18-067-01-015 & 18-067-01-016  
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DRAWING DATE:	01.21.2020
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09.17.20	COMMENTS

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Sheet Title  
INTERMEDIATE EROSION, SEDIMENTATION, AND POLLUTION CONTROL  
Sheet Number  
C-4.3

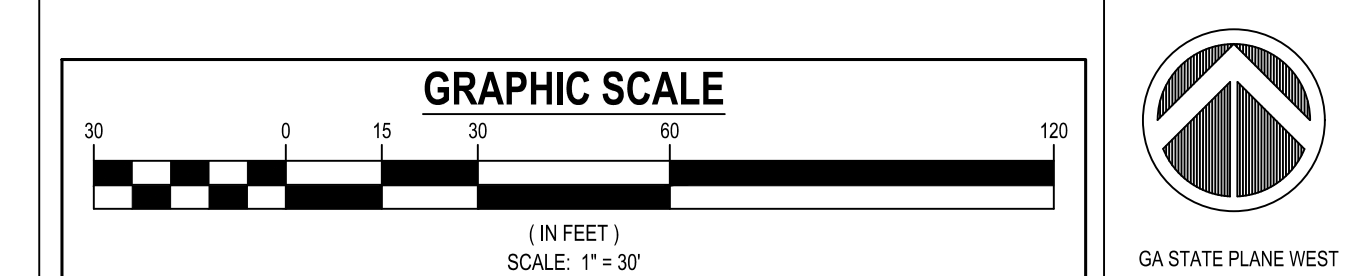


PIPE DIAMETER.....36"  
FLOW RATE (cfs).....57.6  
VELOCITY (fps).....10.3  
TAILWATER CONDITION.....MIN.  
APRON LENGTH (LA).....20.0'  
WIDTH AT THE HEADWALL (W1).....9.0'  
DOWNSTREAM WIDTH (W2).....23.0'  
AVERAGE STONE DIAMETER (D<sub>50</sub>).....1.20'  
STONE DEPTH (D).....2.7'

SEDIMENT STORAGE CALCULATIONS  
1) REQUIRED STORMWATER STORAGE = 3991 CY (AS DETERMINED BY LOCAL ORDINANCE)  
2) REQUIRED SEDIMENT STORAGE = 123 CY (67 CYAC x 1.83 AC DISTURBED AREA)  
3) TOTAL REQUIRED STORAGE = 3991 + 123 = 4114 CY  
4) AVAILABLE STORAGE = 1477 CY  
5) IS THE AVAILABLE STORAGE (4) GREATER THAN THE REQUIRED STORAGE (3)?  
A) YES NO  
6) IF "NO", THE SEDIMENT STORAGE CAPACITY OF THE POND MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:  
RAISE THE INVERT OF THE OUTLET STRUCTURE \_\_\_\_\_ INCHES.  
UNDERCUT THE POND \_\_\_\_\_ FEET.  
OTHER \_\_\_\_\_  
7) CLEAN-OUT ELEVATION = 980.77' (ELEVATION CORRESPONDING TO 22 CY/D x 1.83 DISTURBED AREA)  
8) IS THE LENGTH-TO-WIDTH RATIO 2:1 OR GREATER?  
A) YES NO  
9) IF "NO", THE LENGTH OF FLOW MUST BE INCREASED. CHOOSE THE METHOD TO BE USED:  
BAFFLES (TYPE OF BAFFLE \_\_\_\_\_)  
OTHER \_\_\_\_\_

NOTE: THIS PROJECT DOES NOT DISCHARGE INTO AN IMPAIRED STREAM.  
NOTE: NO DISTURBANCE SHALL TAKE PLACE WITHIN LIMITS OF THE UNDISTURBED BUFFER.

NOTE: NO DISTURBANCE SHALL TAKE PLACE WITHIN LIMITS OF WETLANDS.  
NOTE: WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.



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 direct supervision.

Signed: *Jason P. Brown* Date: 01.21.2020  
SIGNATURE OF PLAN PREPARER AND DATE

**EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN CERTIFICATION:**

I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of Best Management Practices (BMPs) required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment 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.

Signed: *Jason P. Brown* Date: 01.21.2020  
Georgia Civil Inc.  
JASON P. BROWN  
Level II Certified Design Professional #52374 - Exp. 5-1-2023

I certify that I, as the professional who prepared the ES&PC Plan, will inspect the installation of the initial phase of Erosion, Sedimentation, and Pollution Control approved BMP's shown on the plan within 7 days after initial construction activity begins.

Signed: *Jason P. Brown* Date: 01.21.2020  
SIGNATURE OF PLAN PREPARER AND DATE

**GEORGIA UNIFORM CODING SYSTEM  
SOIL EROSION & SEDIMENT CONTROL**

STRUCTURAL PRACTICES			
Code	Practice	Symbol	Code
Cd-1	Compost Filter Sock	[Symbol]	IS-1
Cd-2	Straw-Bale Check Dams	[Symbol]	IS-2
Cd-3	Stone Check Dams	[Symbol]	IS-3
Ch-1	Channel Stabilization Category (Vegetated/Sod)	[Symbol]	IS-4
Ch-2	Channel Stabilization Category (Rip-Rap, TSM)	[Symbol]	IS-5
Ch-3	Channel Stabilization Category (Concrete)	[Symbol]	IS-6
Co	Construction	[Symbol]	IS-7
Cr	Construction Road Stabilization	[Symbol]	IS-8
Dca-A	Stream Diversion Channel (Geotextile, Sod, or Polyethylene)	[Symbol]	IS-9
Dca-B	Stream Diversion Channel (Geotextile alone)	[Symbol]	IS-10
Dca-C	Stream Diversion Channel (Class I Rip-Rap and Geotextile)	[Symbol]	IS-11
D	Diversion	[Symbol]	IS-12
Dn1	Temporary Downstream Structure	[Symbol]	IS-13
Dn2	Permanent Downstream Structure	[Symbol]	IS-14
Fr	Filter Ring	[Symbol]	IS-15
Ga	Gabion	[Symbol]	IS-16
Gs	Grade Stabilization Structure	[Symbol]	IS-17
Lv	Level Spreader	[Symbol]	IS-18
Rd	Rock Filter Dam	[Symbol]	IS-19
Re	Retaining Wall	[Symbol]	IS-20
Rd-B	Retrotiff (Stilted Board Dam w/ Stone or Filter Fabric)	[Symbol]	IS-21
Rd-P	Retrotiff (Performing Half-Round Pipe w/ Stone Filter)	[Symbol]	IS-22
Rd-Sp	Retrotiff (Silt Control Gate)	[Symbol]	IS-23
Sd1-BB	Sediment Barrier (Type = Rip-Rap Barrier)	[Symbol]	IS-24
Sd1-NB	Sediment Barrier (Type = Non-Sensitive Areas)	[Symbol]	IS-25
Sd1-S	Sediment Barrier (Type = Sensitive Areas)	[Symbol]	IS-26
Sd1-C	Sediment Barrier (Type = Compost Filter Media Sock)	[Symbol]	IS-27
Sd2-B	Inlet Sediment Trap (Baffle Box)	[Symbol]	IS-28
Sd2-BB	Inlet Sediment Trap (Block & Gravel, Drop Inlet Protection)	[Symbol]	IS-29
Sd2-E	Inlet Sediment Trap (Expanded Inlet Sediment Trap)	[Symbol]	IS-30
Sd2-F	Inlet Sediment Trap (Filter Fabric w/ Supporting Frame)	[Symbol]	IS-31

**VEGETATIVE MEASURES**

Code	Practice	Symbol	Code
Bf	Buffer Zone	[Symbol]	Bf
Cs	Coastal Dune Stabilization (w/ Vegetation)	[Symbol]	Cs
Ds1	Disturbed Area Stabilization (w/ Mulching Only)	[Symbol]	Ds1
Ds2	Disturbed Area Stabilization (w/ Temporary Seeding)	[Symbol]	Ds2
Ds3	Disturbed Area Stabilization (w/ Permanent Vegetation)	[Symbol]	Ds3
Ds4	Disturbed Area Stabilization (w/ Sodding)	[Symbol]	Ds4
Du	Dust Control on Disturbed Areas	[Symbol]	Du
Fh-Co	Flocculants Coagulants	[Symbol]	Fh-Co
Sb	Slope Stabilization (Using Permanent Vegetation)	[Symbol]	Sb
Sa	Slope Stabilization (Using Temporary Seeding)	[Symbol]	Sa
Tac-1	Tackifiers: Type I (Synthetic Polymers)	[Symbol]	Tac-1
Tac-2	Tackifiers: Type II (Organic Polymers)	[Symbol]	Tac-2
Tac-3	Tackifiers: Type III (Organic Blends)	[Symbol]	Tac-3
Tac-4	Tackifiers: Type IV (Organic Tackifiers Control Products (RSCPs))	[Symbol]	Tac-4
Tac-5	Tackifiers: Type V (Synthetic Organic Blends w/ Synthetic Fibers)	[Symbol]	Tac-5

**1.83 AC DISTURBED AREA PH III**

REFER TO SHEET C-1.1 AND C-6.1 FOR EROSION, SEDIMENTATION, AND POLLUTION CONTROL NOTES

Maintenance of all soil erosion and sedimentation control measures and practices, whether temporary or permanent, shall be at all times the responsibility of the property owner.

**GSWCC EROSION CONTROL NOTES:**

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. 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. Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding. Any amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional.

**DEVELOPER**

COMPANY: CITY OF CLARKSTON  
CITY MANAGER ROBIN GOMEZ  
ADDRESS: 1055 ROWLAND ST  
CLARKSTON, GA 30021

**CONTRACTOR**

COMPANY: TBD  
ADDRESS: .  
CONTACT: .  
PHONE: .  
FAX: .  
EMAIL: .

**SURVEYOR**

COMPANY: GEORGIA CIVIL, INC.  
ADDRESS: P.O. BOX 896  
MADISON, GA 30650  
CONTACT: BRIAN SLATE  
PHONE: 706-342-1104  
FAX: 706-342-1105  
EMAIL: BS.SLATE@GEORGIA811.COM

**SITE DESIGNER**

COMPANY: GEORGIA CIVIL, INC.  
ADDRESS: P.O. BOX 896  
MADISON, GA 30650  
PHONE: 706-342-1104

**DEVELOPER**

JASON P. BROWN  
LEVEL II CERTIFIED DESIGN PROFESSIONAL

**24-HOUR CONTACT**

LARRY KAISER  
404-909-5619



Contact 811 before you dig

Utilities shown are for Contractor convenience. Items are shown schematically and neither the site design professional nor the owner assumes any responsibility for utilities in their actual location. This plan may not show and/or may incorrectly show utilities located on site. Contractor shall be responsible to locate and use the services of a private utility locator firm during the entire course of work and shall pay for said services. Contractor shall locate utilities prior to any disturbance including, but not limited to, excavation, grading, etc. The Contractor, at their expense, shall be responsible to repair, replace and/or relocate, as necessary, any utilities damaged, whether shown or not. Abandonment, relocation, etc. of utilities shall be coordinated with the respective utility company.

PIPE DIAMETER.....36"  
FLOW RATE (cfs).....57.6  
VELOCITY (fps).....10.3  
TAILWATER CONDITION.....MIN.  
APRON LENGTH (LA).....20.0'  
WIDTH AT THE HEADWALL (W1).....9.0'  
DOWNSTREAM WIDTH (W2).....23.0'  
AVERAGE STONE DIAMETER (D<sub>50</sub>).....1.20'  
STONE DEPTH (D).....2.7'

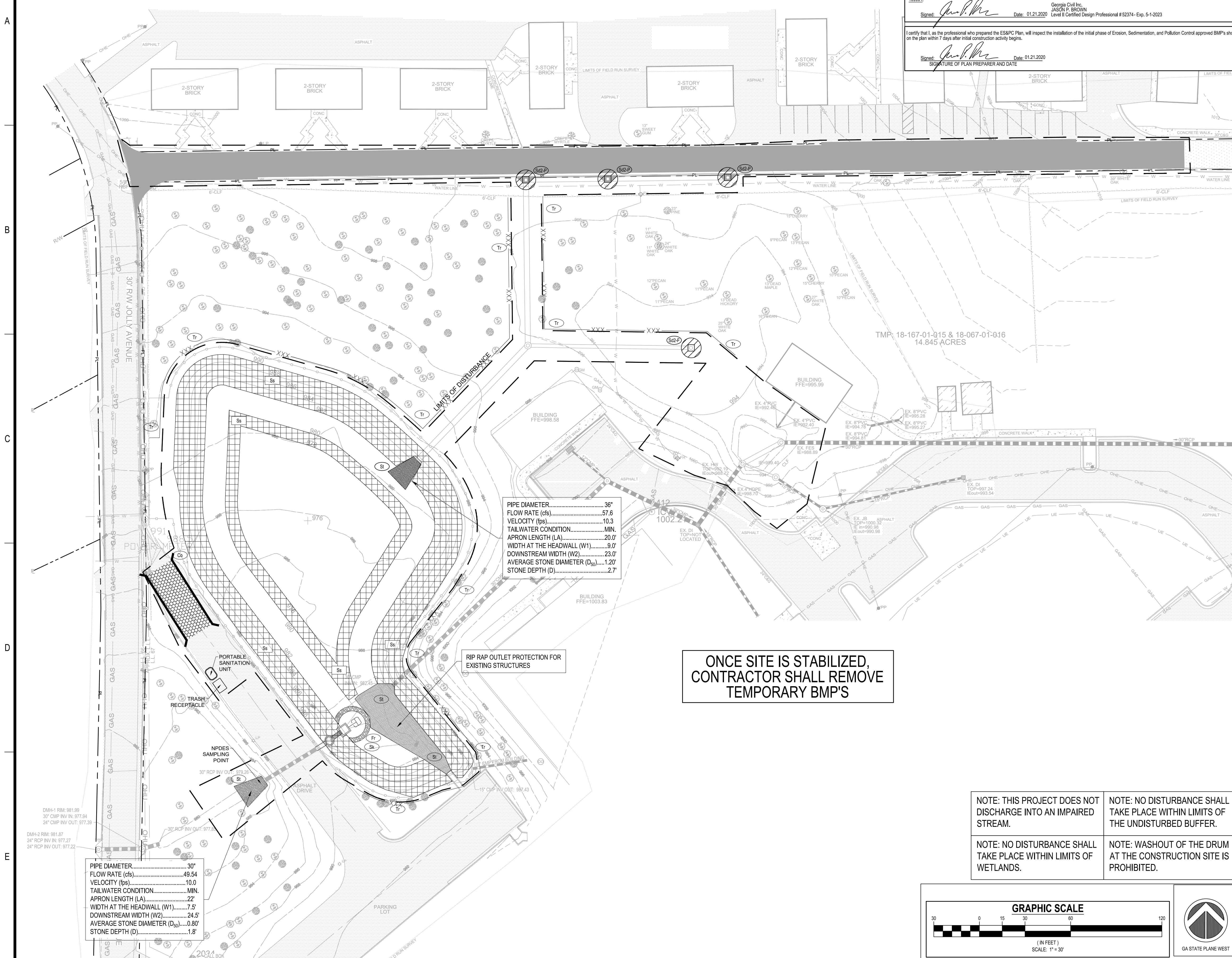
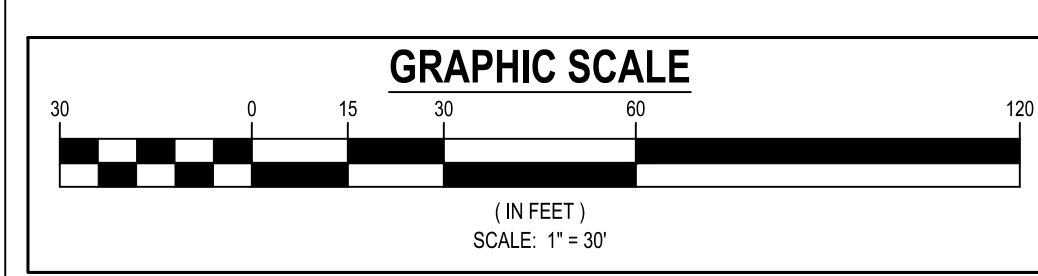
ONCE SITE IS STABILIZED, CONTRACTOR SHALL REMOVE TEMPORARY BMP'S

NOTE: THIS PROJECT DOES NOT DISCHARGE INTO AN IMPAIRED STREAM.

NOTE: NO DISTURBANCE SHALL TAKE PLACE WITHIN LIMITS OF WETLANDS.

NOTE: NO DISTURBANCE SHALL TAKE PLACE WITHIN LIMITS OF THE UNDISTURBED BUFFER.

NOTE: WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.



georgia civil  
CIVIL ENGINEERING  
LANDSCAPE ARCHITECTURE  
LAND SURVEYING  
311 N. Main St. Ste. 101, Unit C  
P.O. Box 896 | Madison, GA 30650  
P: 706.342.1104 | F: 706.342.1105  
www.georgiacivil.com  
Professional Seal



DEBELLE STREET & ATLANTA AREA SCHOOL FOR THE DEAF STORM IMPROVEMENTS  
PARCEL NO. : 18-067-01-015 & 18-067-01-016  
890 N INDIAN CREEK DR, CLARKSTON GA, 20021  
ZONING-NC-1

DRAWING DATE:	01.21.2020
DRAWN BY:	JPB/MS
CHECKED BY:	JPB
REVISIONS	
DATE:	DESCRIPTION:
09.17.20	COMMENTS

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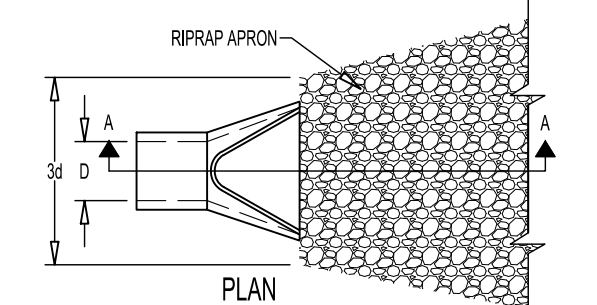
FINAL EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN



St

### STORM DRAIN OUTLET PROTECTION (USING RIP-RAP)

PIPE OUTLET TO FLAT AREA - NO WELL DEFINED CHANNEL



NOTES:

1. LA IS THE LENGTH OF THE RIP-RAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 1' ABOVE THE MAXIMUM FLOW WATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIP-RAP AND SOIL FOUNDATION.

CONSTRUCTION SPECIFICATIONS

1. Ensure that the aggregate for the filter and rip-rap follows the required lines and grades shown in the plan. Compact any fill required in the aggregate to the density of the surrounding undisturbed material. Low areas in the aggregate or undisturbed soil may also be filled by increasing the rip-rap thickness.
2. The rip-rap and gravel filter must conform to the specified grading limits shown on the plans.
3. Geotextile must meet design requirements and be properly protected from puncturing or tearing during installation. Repair any damage by removing the rip-rap and placing another piece of filter fabric over the damaged area. All connecting joints should overlap a minimum of 1 ft. If the damage is extensive, replace the entire filter fabric.
4. Rip-rap may be placed by equipment, but take care to avoid damaging the filter.
5. The minimum thickness of the rip-rap should be 1.5 times the maximum stone diameter.
6. Construct the apron on zero grade with no overfall at the end. Make the top of the rip-rap at the downstream end level with the receiving area or slightly below it.
7. Ensure that the apron is properly aligned with the receiving stream and preferably straight throughout its length. If a curve is needed to fit site conditions, place it in the upper section of the apron.
8. Immediately after construction, stabilize all disturbed areas with vegetation.
9. Stone quality - Select stone for rip-rap from flat stone or quarry stone. The stone should be hard, angular, and highly weather-resistant. The specific gravity of the individual stones should be at least 2.5.
10. Filter - Install a filter to prevent soil movement through the openings in the rip-rap. The filter should consist of a coarse gravel filter or a synthetic filter cloth.

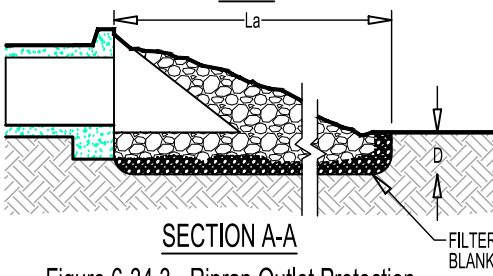
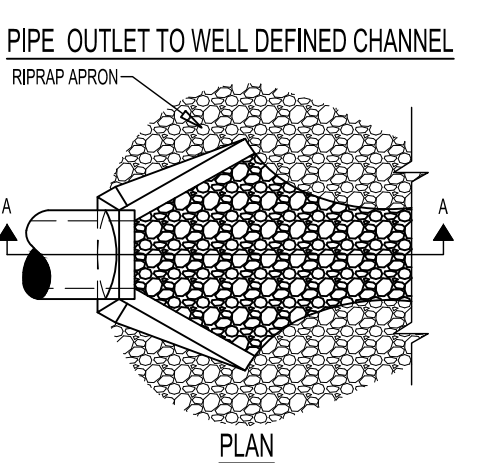
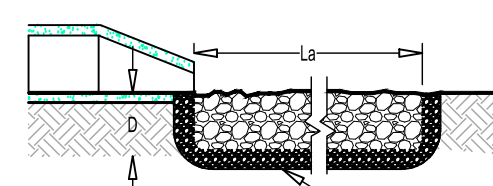


Figure 6-34.3 - Rip-rap Outlet Protection

Fr

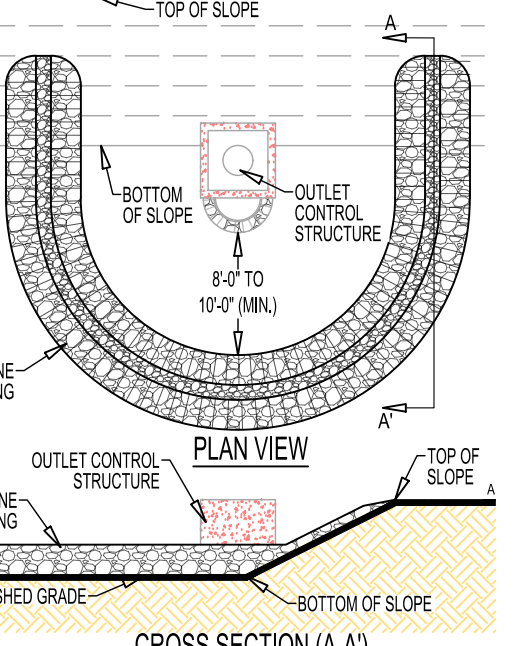
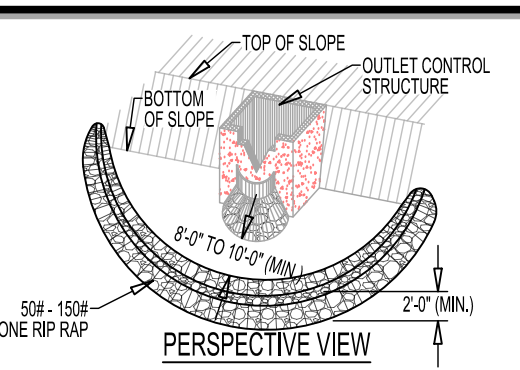


Figure 6-20.1

**PURPOSE**  
The structure reduces low velocities, preventing the failure of other sediment control devices. It also helps prevent sediment from leaving the site or entering drainage systems, and it permits stabilization of the disturbed area.

**CONDITIONS**  
Filter rings shall be used in conjunction with other sediment control measures, except where other practices defined in this Manual are not appropriate (such as silt or concrete fences). They can be installed at or around devices such as inlet sediment traps, temporary diversion ditches, and detention pond berms to provide additional sediment filtering capacity.

**DESIGN CRITERIA**  
Filter rings shall be designed to meet the following standards to be used:

**Location**  
The filter ring shall surround all sides of the structure receiving runoff from disturbed areas. It should be placed a minimum of 4' from the structure. The ring is not intended to substantially impound water, causing flooding or damage to adjacent areas. The filter ring may also be placed below storm drains discharging into detention ponds, creating a sediment area, or "berm," for sediment accumulation. This provides for easier, more localized clean-out of the pond. If used above a vented structure, it should be a min. of 8' from the vent.

**Stone Size**  
When utilized at sites with diameters less than 12", the filter ring shall be constructed of stone no smaller than 3/4" (1.5 - 30 lbs.). When placed at pipes with diameters greater than 12", the filter ring shall be constructed of stone no smaller than 1 1/2" (50 - 100 lbs.). The larger stone can be used with smaller filter stone on the upstream side for added sediment filtering capabilities. However, the smaller filter stone is more prone to clogging, requiring higher maintenance.

**Height**  
The filter ring shall be constructed at a height no less than 2' from grade.

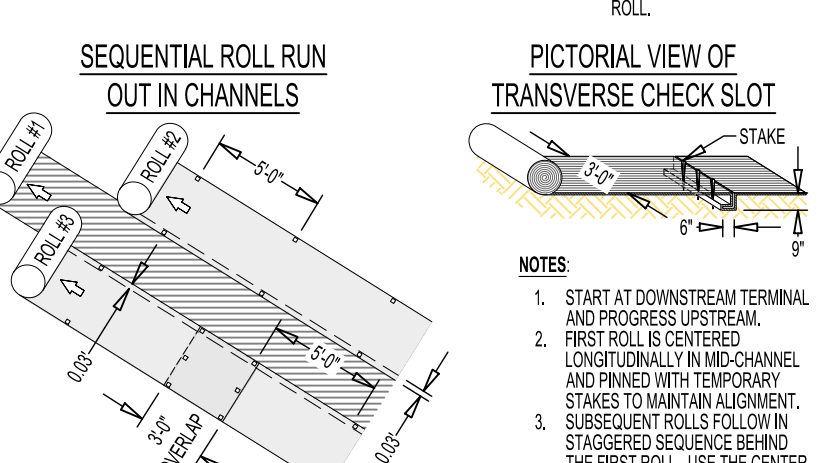
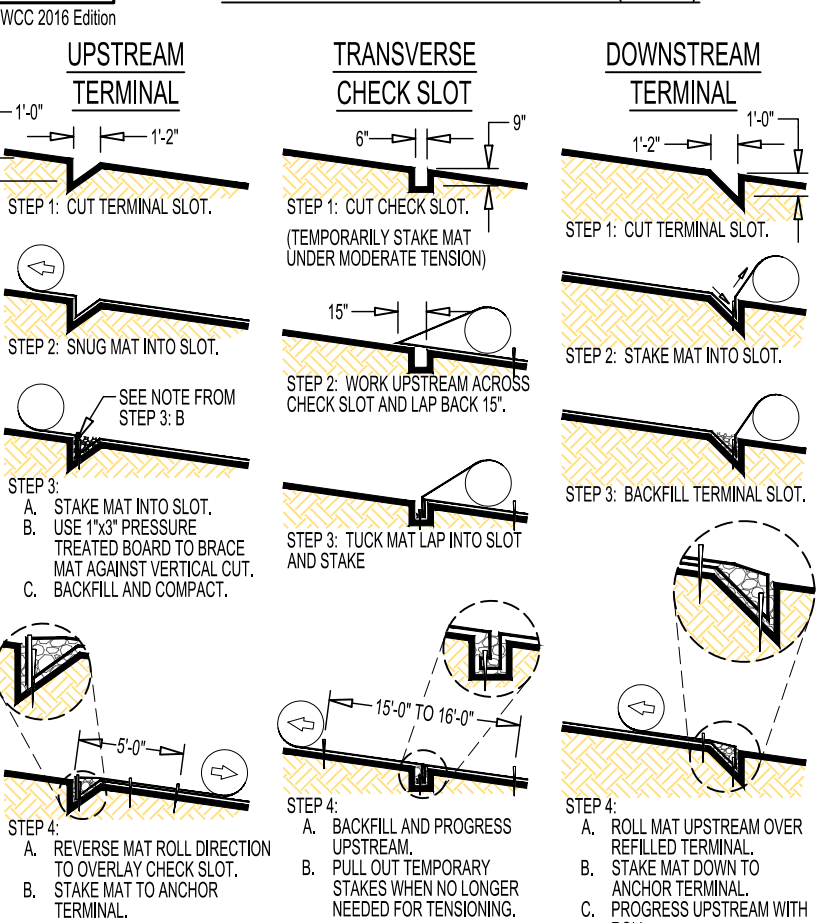
**CONSTRUCTION SPECIFICATIONS**  
Structural or other placement of stone shall be required to uniformly surround the structure to be supplemented. Refer to Appendix C for rock riprap specifications. The filter ring may be constructed on natural ground surface, on an elevated surface, or on machine compacted fill. A common failure of a filter ring is caused by placing too close to the top of the structure it is entering. When placed below a storm drain outlet, it shall be placed such that it does not create a condition causing water to be backed up into the storm drain and inhibit the function of the storm drain system.

**MAINTENANCE**  
The filter ring shall be best kept clear of trash and fill and will require continuous monitoring and maintenance, which includes sediment removal when over 10% full. Structures are temporary and should be removed when the land disposal project has been stabilized.

### FILTER RING - (Fr)

Ss

### TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)



**NOTES:**

1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND THE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THE CHANNEL CENTER.
3. WORK OUTWARDS FROM THE CHANNEL CENTER TO THE EDGE.
4. USE 3" OVERLAPS AND STAKE AT 5'-0" INTERVALS ALONG THE SEAMS.
5. USE 3" OVERLAPS AND SHRINGLE DOWNSTREAM TO CONNECT THE LINGS AT THE ROLL ENDS.

### TYPICAL INSTALLATION GUIDELINES FOR MATTING AND BLANKETS

### SLOPE STABILIZATION - (Ss)

**CONDITIONS**  
Slope stabilization can be applied to flat areas or slopes where the erosion hazard is high and slope protection is needed during the establishment of vegetation.

**PLANNING CONSIDERATIONS**  
Care must be taken to choose the type of slope stabilization product that is most appropriate for the specific needs of a project. The general types of slope stabilization products are discussed within this specification.

**Rolled Erosion Control Products (RECP)**  
A natural fiber blanket with single or double photodegradable or biodegradable nets.

**Hydraulic Erosion Control Products (HECP)**  
HECP shall utilize straw, cotton, wood or other natural based fibers held together by a soil binding agent that works to stabilize soil particles. Paper mesh should be used for erosion control.

**CRITERIA**  
Rolled Erosion Control Products (RECP) and Hydraulic Erosion Control Products (HECP):  
• Installation and spacing of RECP and application rates for HECP shall conform to manufacturer's guidelines for application.  
• Short-Term RECPs as a minimum shall be used to stabilize concentrated flow areas with a velocity less than 5 ft/sec on slopes 3:1 or greater with a height of 10' or greater.

**MATERIALS**  
**HECP**  
Hydraulic erosion control products shall be prepackaged from the manufacturer. Field mixing of performance enhancing additives will not be allowed. Fibrous components shall be all natural or biodegradable. Products shall be determined to be non-toxic in accordance with EPA-821-R-02-012.

**RECP**  
Blankets shall be non-toxic to vegetation, seed, or wildlife. Products shall be determined to be non-toxic in accordance with EPA-821-R-02-012. At a minimum, the plastic or biodegradable netting shall be the fibrous matrix to maximum strength and provide for ease of handling.

**RECPs are categorized as follows:**

- Short-Term** (functional longevity 1 to 3 months)
  - Photodegradable  
Blankets that consist of 70% straw and 30% coconut with a top and bottom side photodegradable net. The top net shall consist of machine direction strands that are twisted together and then interwoven with cross direction strands (also woven). The bottom net may be kno woven or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" x 1.0". The blanket should be seen together on 1.5' centers with degradable thread. Minimum thickness should be 0.35" and minimum density should be 0.5 lbs per square yard.
  - Biodegradable  
Blankets that consist of 70% straw and 30% coconut with a top and bottom side biodegradable (jute net). The top side net shall consist of machine direction strands that are twisted together and then interwoven with cross direction strands (also woven). The bottom net may be kno woven or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" x 1.0". The blanket should be seen together on 1.5' centers with degradable thread. Minimum thickness should be 0.35" and minimum density should be 0.5 lbs per square yard.
- Long-Term** (functional longevity 3 to 6 months)
  - Photodegradable  
Blankets that consist of 100% coconut with a top and bottom side photodegradable net. Each net should have strands oriented to delay breakdown. The maximum size of the mesh should be openings of 0.5" x 1.0". The blanket should be seen together on 1.5' centers with degradable thread. Minimum thickness should be 0.35" and minimum density should be 0.5 lbs per square yard.
  - Biodegradable  
Blankets that consist of 100% coconut with a top and bottom side biodegradable site net. The top side net should consist of machine direction strands that are twisted together and then interwoven with cross direction strands (also woven). The bottom net may be kno woven or otherwise to meet requirements. The approximate size of the mesh should be openings of 0.5" x 1.0". The blanket should be seen together on 1.5' centers with degradable thread. Minimum thickness should be 0.35" and minimum density should be 0.5 lbs per square yard.

**NOTES**  
Use the intention of this section to allow interchangeable use of RECPs and HECPs for erosion protection on slopes. The project engineer should select the type of erosion control product that best fits the need of the particular site.

**SITE PREPARATION**  
After the site has been shaped and graded to the approved design, prepare a stable seedbed, free from clods and rocks more than 1" in diameter, and any foreign material that will impede the contact of the soil stabilization mat with the soil surface. Surface must be smooth to ensure proper contact of blankets or matting to the soil surface. If necessary, redirect any runoff from the slope or slope during installation.

**MAINTENANCE**  
All erosion control blankets and matting should be inspected periodically following installation, particularly after rainstorms to check for erosion and undermining. Any erosion or failure should be repaired immediately. If erosion or coverage occurs, reseed the material after repairing damage to the slope or ditch. Continue to monitor these areas until they become permanently stabilized.

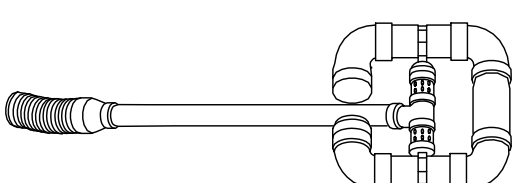
### EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST

Project Name:	City/County:	Name & email of person filling out checklist:	SWDC:	Address:	Date on Plans:
Debelle St Drainage Improvements	Clarkston/DeKalb	Mirrah Sanders (mirrah@georgiacivil.com)	DeKalb County, Project 2	800 N Indian Creek Drive	12.5.19
Plan Page #	Included	Y/N	TO BE SHOWN ON ES&PC PLAN		
C-4.6		Y	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. (The completed checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed.)		
C-4.1 thru C-4.4		Y	2. A valid certification number issued by the Commission, signature and seal of the certified design professional (signature, seal and Level I number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed).		
n/a		n/a	3. Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. EPD approves the request to disturb 50 acres or more at any one time. The Plan must include at least 6 of the BMPs listed in Appendix 1 of this checklist. (A copy of the written approval by EPD must be attached to the Plan for the Plan to be reviewed.)		
C-4.2 thru C-4.4		Y	4. The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution control.		
CV-1.1C-4.1		Y	5. Provide the name, address, email address, and phone number of primary permittee.		
CV-1.1C-4.1		Y	6. No 100' and 200' buffer areas of the projector phase under construction.		
CV-1.1C-4.1		Y	7. Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.		
ALL		Y	8. Include dates of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.		
CV-1.1C-4.1		Y	9. Description of the nature of construction activity.		
CV-1.1C-4.1		Y	10. Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.		
C-4.1		Y	11. Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.		
C-4.1 thru C-4.4		Y	12. Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 19 of the permit.		
C-4.1 thru C-4.4		Y	13. Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit.		
C-4.1 thru C-4.4		Y	14. Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment control equipment and perimeter control BMPs within 7 days after installation." in accordance with Part IV page 25 of the permit.		
C-4.1		Y	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 watershed 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."		
n/a		n/a	16. Provide a description of any buffer encroachments and indicate whether a buffer variance is required.		
C-4.2 thru C-4.4		Y	17. Clearly note the statement that "Amendments/visions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by a design professional."		
C-4.1		Y	18. Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit."		
C-4.2 thru C-4.4		Y	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."		
C-4.2 thru C-4.4		Y	20. Clearly note statement that "Erosion control measures will be maintained at all times. 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."		
C-4.2 thru C-4.4		Y	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."		
n/a		n/a	22. Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Impaired Stream Segment must comply with Part 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."		
n/a		n/a	23. If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (defined in Item 22 above) at least 60 months prior to start of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan."		
C-4.1		Y	24. BMPs for concrete washdown of bays, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited."		
C-4.1		Y	25. Provide BMPs for the remediation of all petroleum spills and leaks.		
C-4.1		Y	26. Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed."		
C-4.6		Y	27. Description of practices to provide cover for building materials and building products on site."		
C-4.1		Y	28. Description of the practices that will be used to reduce the pollutants in storm water discharges."		
CV-1.1C-4.1		Y	29. 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).		
C-4.1		Y	30. Provide complete requirements of inspections and record keeping by the primary permittee."		
C-4.1		Y	31. Provide complete requirements of sampling frequency and recording of sampling results."		
C-4.1		Y	32. Provide complete details for retention of records as per Part IV F. of the permit."		
C-4.1		Y	33. Description of analytical methods to be used to collect and analyze the samples from each location."		
C-4.1		Y	34. Appendix B required for NTU values at all outlet sampling points where applicable."		
C-4.2 thru C-4.4		Y	35. Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged."		
C-4.1		Y	36. 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 single phase."		
C-4.2 thru C-4.4		Y	37. Graphic scale and North arrow.		
C-4.2 thru C-4.4		Y	38. Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:		
			Map Scale	Ground Slope	Contour Interval, ft.
			1 inch = 100 feet	Flat - 2%	0.5 or 1
			larger scale	Rolling 2 - 8%	1 or 2
				Slope 8% +	2.5 or 10
n/a		n/a	39. 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 located at www.gaswcc.org.		
n/a		n/a	40. Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition."		
n/a		n/a	41. 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.		
n/a		n/a	42. Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.		
HYDRO		Y	43. Delineation and acreage of contributing drainage basins on the project site.		
HYDRO		Y	44. Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions."		
C-4.1		Y	45. An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.		
C-4.3		Y	46. Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.		
C-4.1 & C-4.2		Y	47. Soil series for the project site and their delineation.		
C-4.2 thru C-4.4		Y	48. The limits of disturbance for each phase of construction.		
C-4.3 thru C-4.4		Y	49. Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, 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 a non-allowable control when a sediment basin is not obtainable 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 obtainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.		
C-4.2 thru C-4.4		Y	50. 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 legend.		
C-4.2 thru C-4.4		Y	51. 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.		
C-4.4		Y	52. Provide vegetation plan, noting all temporary and permanent-vegetative practices. Include species, planting dates and seedling, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia.		
			* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200' of a perennial stream the checklist items would be N/A.		

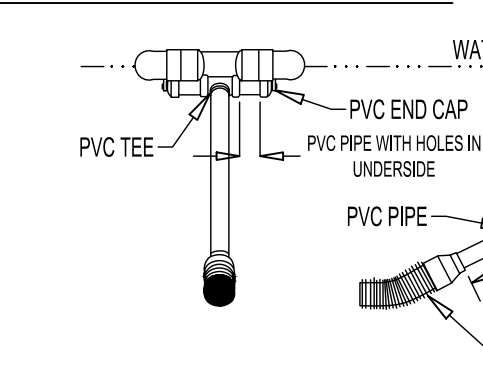
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**NOTE:**  
SKIMMER CONFIGURATION SHOWN IS TYPICAL. THE DESIGNER/ENGINEER MAY SUBMIT AN ALTERNATE SKIMMER DETAIL FOR REVIEW.

### SKIMMER PERSPECTIVE



### SKIMMER FRONTAL SECTION VIEW



### SKIMMER SIDE SECTION VIEW

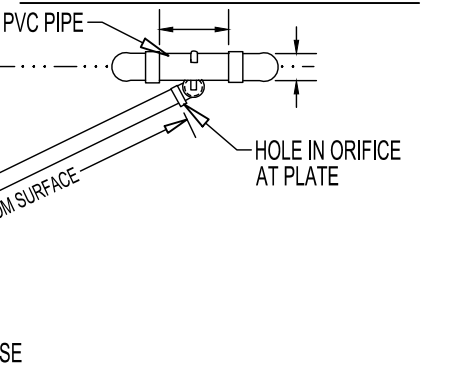
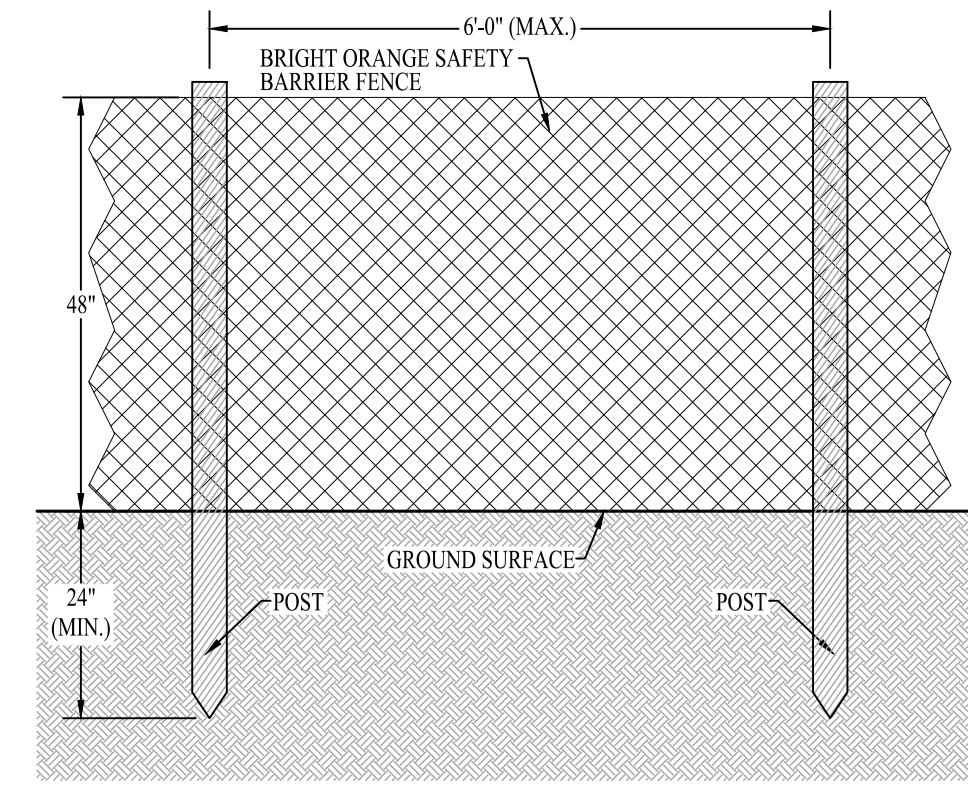


Figure 6-31.4

**TO BE SHOWN ON THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN WHEN A FLOATING SURFACE SKIMMER IS USED, SHOW THE FOLLOWING INFORMATION ALONG WITH EACH SEDIMENT POND, TRAP OR BASIN BEING USED ON SITE**

1. POND TRAP OR BASIN SIZE, LENGTH\* (TOP AND BOTTOM), WIDTH\* (TOP AND BOTTOM) AND DEPTH =  
BASIN VOLUME: 112,000 CU. FT. (UP TO WEIR INVERT)
2. TIME TO DRAIN (HRS) = 72 HOURS
3. SKIMMER DIMENSIONS (ORIFICE AND HEAD SIZE)\*\*  
SKIMMER SIZE: 6"; ORIFICE RADIUS: 2.6"; ORIFICE DIAMETER: 5.1"
4. MANUFACTURER'S NAME: FARCLOTH SKIMMER

\*FEET, \*\*INCHES



NOTES:

1. THE FENCE SHALL BE LOCATED AS SHOWN ON THE TREE PROTECTION AND REPLACEMENT PLAN.
2. FENCE POSTS SHALL BE EITHER 2"x4" WOOD POSTS OR STANDARD STEEL POSTS.
3. THE FENCE SHALL BE BRIGHT ORANGE POLYETHYLENE SAFETY BARRIER FENCE - GRAINGER ITEM #5W418 (4 FEET HEIGHT, 50 FEET LENGTH, 1 3/4 IN MESH HEIGHT, 2 1/8 IN MESH LENGTH, DIAMOND SHAPE MESH, 160 POUNDS PER FOOT BREAKING STRENGTH).  
BRAND: ALLSAFE SMC  
MFR. MODEL: #3010763  
CATALOG PAGE NO.: 2773

### TREE PROTECTION FENCING

N.T.S.

**NOTE: CONTRACTOR SHALL PROVIDE PHYSICAL BARRIER SUCH AS PLASTIC SHEETING OR TEMPORARY ROOFS ON ALL BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER SUCH MATERIALS IN ORDER TO MINIMIZE EXPOSURE TO PRECIPITATION AND STORMWATER.**



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311 N. Main St., Ste. 101, Unit C  
P.O. Box 896 | Madison, GA 30650  
P: 706.342.1104 | F: 706.342.1105  
www.georgiacivil.com



Project Information

**DEBELLE STREET & ATLANTA AREA SCHOOL FOR THE DEAF STORM IMPROVEMENTS**  
PARCEL NO. : 18-067-01-015 & 18-067-01-016  
890 N INDIAN CREEK DR, CLARKSTON GA, 30021  
ZONING-NC-1

DRAWING DATE:	01.21.2020
DRAWN BY:	JPB/MKS
CHECKED BY:	JPB
DATE:	09.17.20
DESCRIPTION:	COMMENTS

REVISIONS

DATE:	DESCRIPTION:

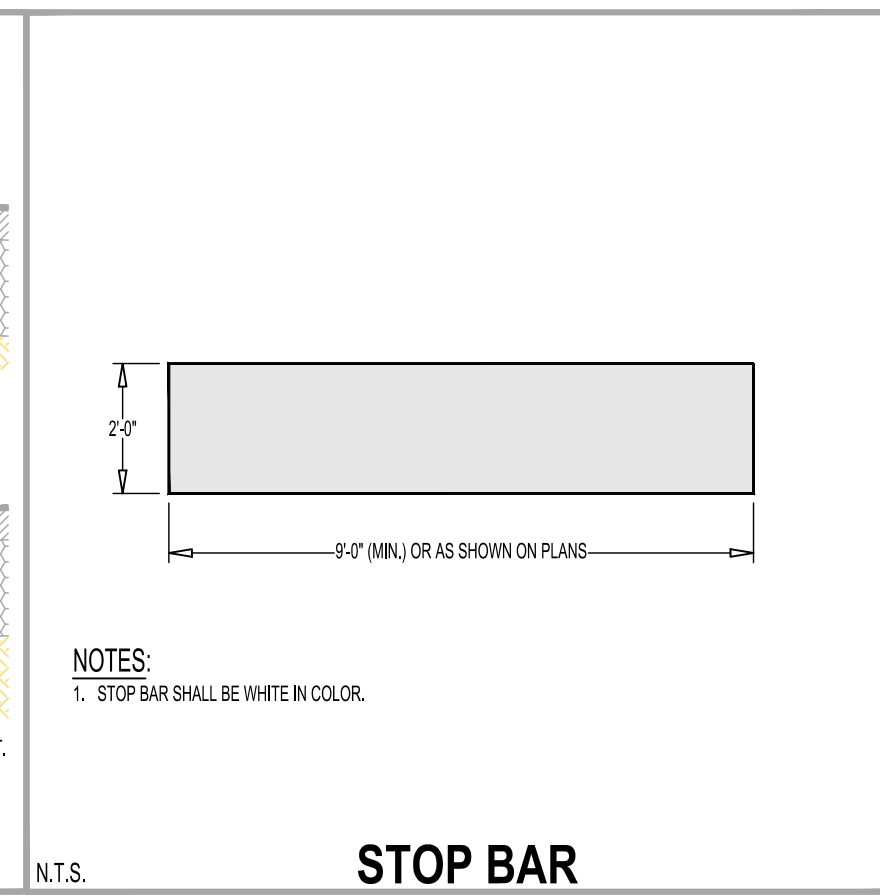
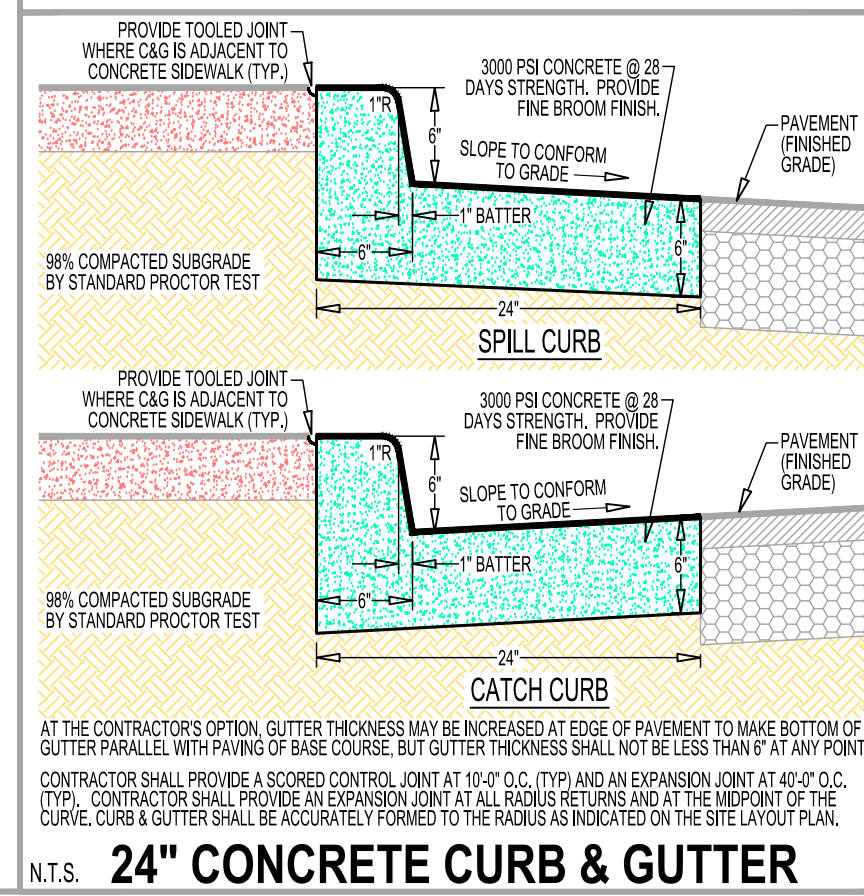
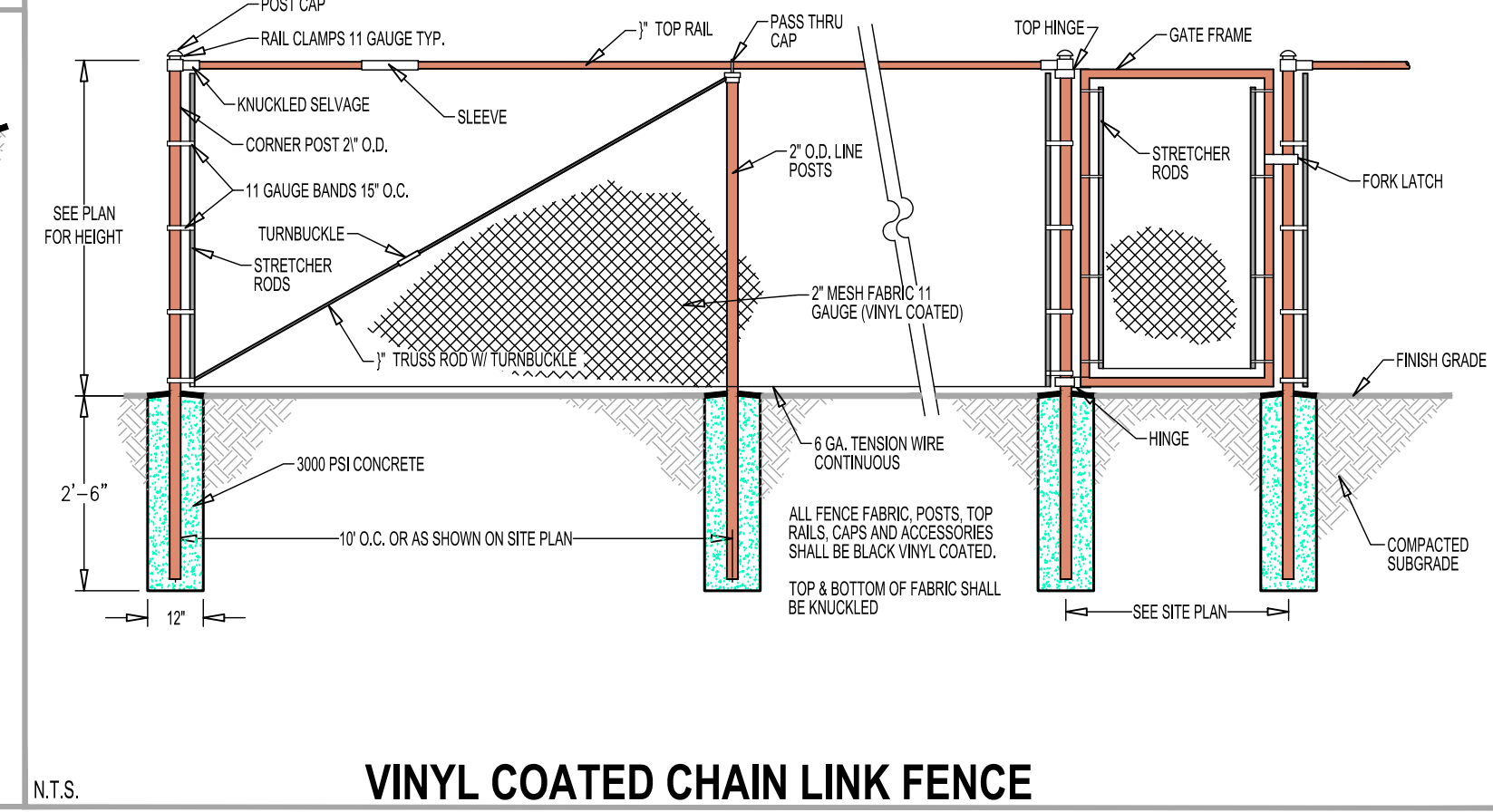
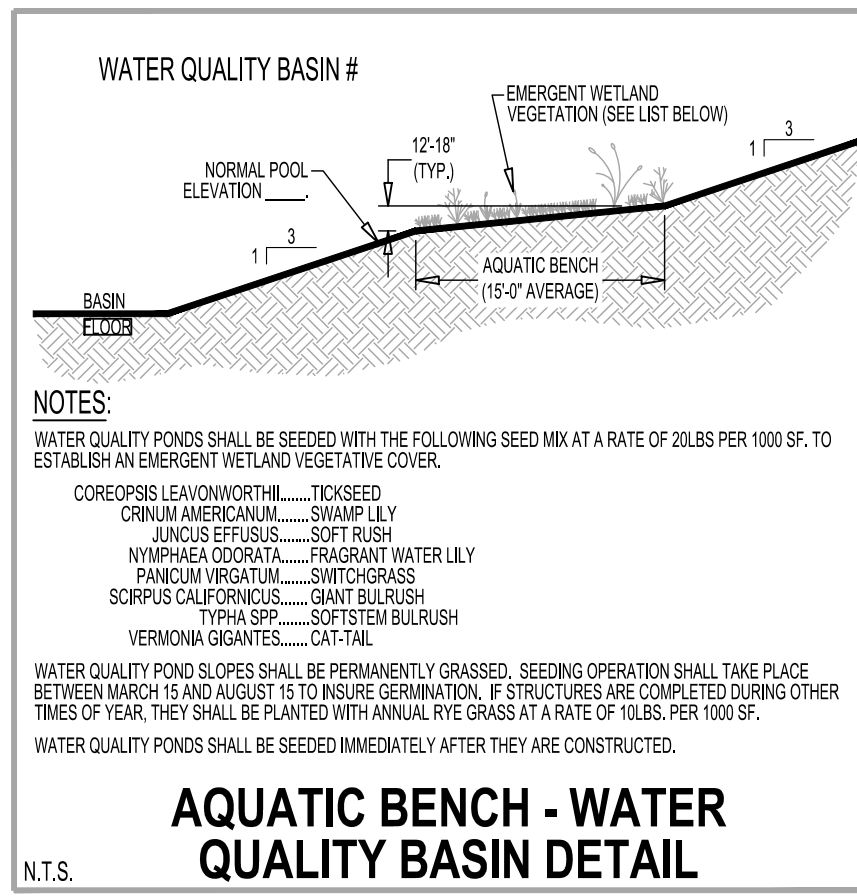
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Sheet Title

EROSION, SEDIMENTATION, AND POLLUTION CONTROL DETAIL

Sheet Number

**C-4.6**



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PARCEL NO. : 18-067-01-015 & 18-067-01-016

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ZONING-NC-1

DRAWING DATE:	01.21.2020
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Sheet Title

**SITE WORK DETAILS**

Sheet Number

**C-5.1**