

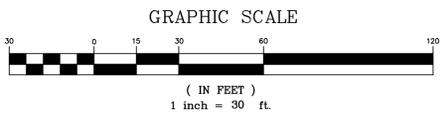
THE F.I.R.M. PANEL 13045C0254D DATE 09/19/2007 INDICATES THIS PROPERTY OR A PORTION IS LOCATED IN A FLOOD HAZARD AREA. THE MAP INDICATES THAT NO STUDY WAS MADE OF THESE AREAS. THE FLOOD HAZARD LINES, IF SHOWN, ARE OUR INTERPRETATION OF THE FLOOD HAZARD AREA TAKING INTO CONSIDERATION EXISTING TOPOGRAPHIC DATA, DRAINAGE AREAS AND FIRM PANELS. THERE MAY BE OTHER INTERPRETATIONS THAT DIFFER FROM THOSE SHOWN.



**GEORGIA & WEST, INC.**  
ENGINEERING • LAND SURVEYING • LAND PLANNING  
102 CORPORATE DRIVE  
CARROLLTON, GA. 30117  
OFFICE (770) 834-4694  
FAX (770) 834-1005  
E-MAIL: mailbox@georgiawest.com

WARNING: THIS PLAN SHEET IS NOT THE OFFICIAL CONTRACT DOCUMENT UNLESS APPROVED BY THE APPROPRIATE GOVERNMENTAL AGENCIES.  
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PROJECT MANAGER:  
CITY OF CARROLLTON  
ATTN: TOMMY HOLLAND  
315 BRADLEY STREET  
CARROLLTON, GEORGIA 30117  
770-830-2000

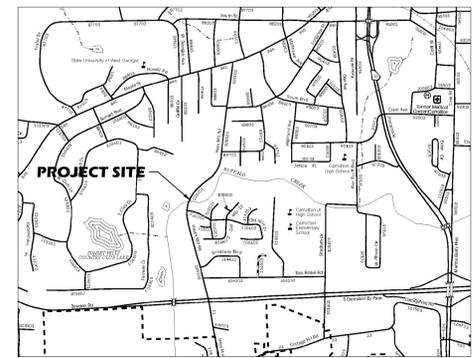
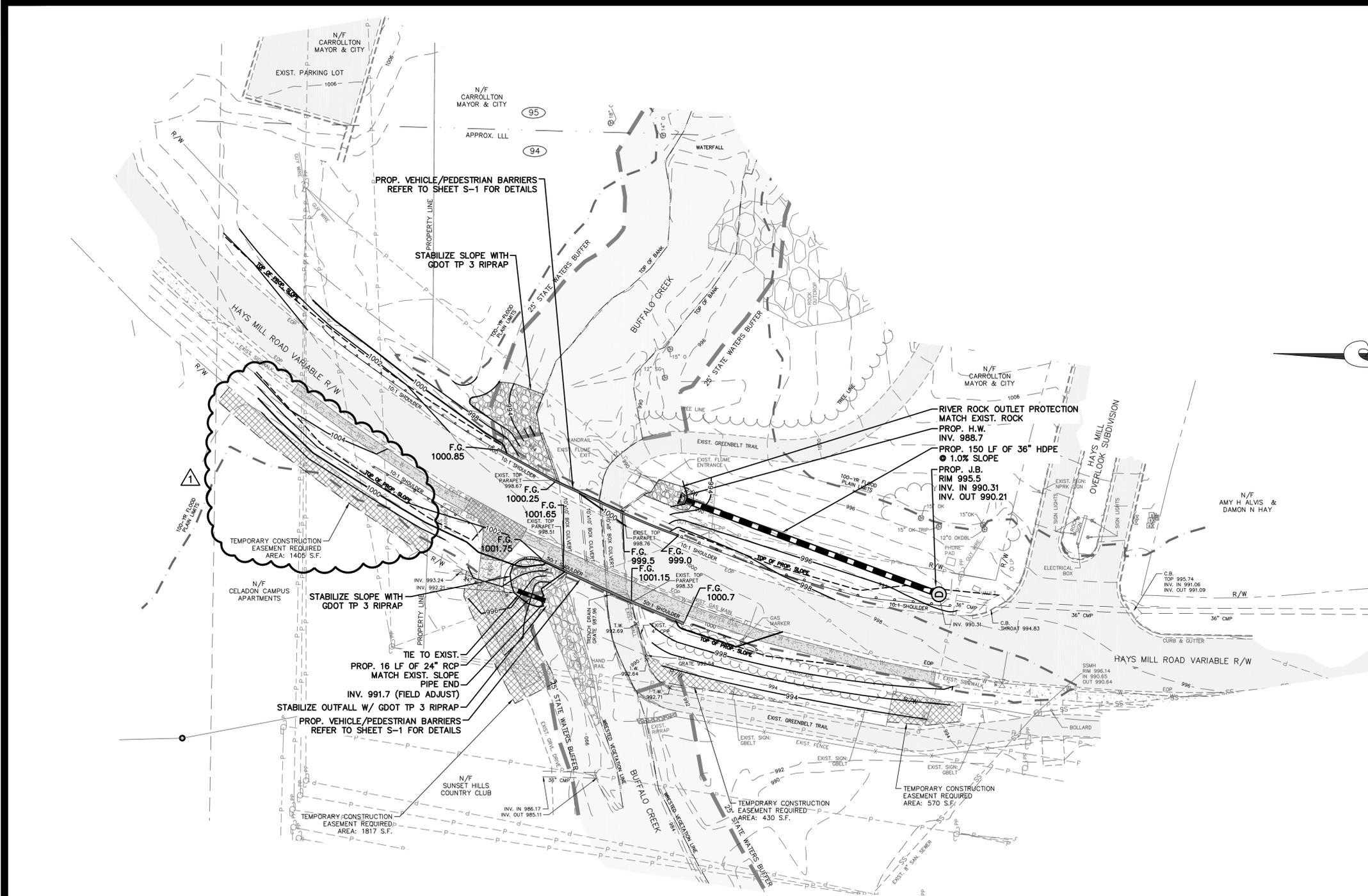


LEGEND			
	1033 CATCH BASIN		LIMITS OF DISTURBANCE
	1034 CATCH BASIN		SEDIMENT BARRIER
	1019A DROP INLET		TREE PROTECTION FENCE
	1011A JUNCTION BOX		CHAIN LINK FENCE
	1019A TYPE E CURB INLET		EXISTING FENCE
	1125 HEADWALL		PROPERTY LINE
	DRAINAGE SLOPE		EXISTING CONTOUR
	SEWER MANHOLE		PROPOSED CONTOUR
	EXISTING FIRE HYDRANT		EXISTING CURB & GUTTER
	PROPOSED FIRE HYDRANT		PROPOSED CURB & GUTTER
	LAMP POST		EXISTING SPOT ELEVATION
	GUY POLE		PROPOSED SPOT ELEVATION
	UTILITY POLE		EXISTING WATER METER
	UNDERGROUND GUTTER		PROPOSED WATER METER
	OVERGROUND GUTTER		MAILBOX
	WATER VALVE		GAS METER
	GAS VALVE		
	HANDICAPPED PARKING		
	TRAFFIC FLOW		
	UNDER GROUND POWER		
	OVERHEAD POWER		
	UNDER GROUND TELEPHONE		
	OVERHEAD TELEPHONE		
	FIBER OPTIC CABLE		
	WATER		
	SANITARY SEWER		
	FORCE MAIN		
	GAS		
	STORM DRAIN		



- CONSTRUCTION NOTES
1. READ AND REVIEW ALL ASSOCIATED SHEETS "CONSTRUCTION AND DETAIL SHEETS" BEFORE COMMENCEMENT OF ANY WORK ON SITE.
  2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
  3. CONTRACTOR TO HAVE WRITTEN APPROVAL PRIOR TO EXECUTING CHANGE ORDERS.
  4. CONSTRUCTION & MATERIALS WILL COMPLY WITH THE APPROPRIATE GOVERNING AUTHORITY'S STANDARDS & SPECIFICATIONS.
  5. COMPACTION STANDARDS:
    - 5.A. ALL FILL TO BE COMPACTED TO 95% STANDARD PROCTOR.
    - 5.B. THE TOP 2" OF ALL AREAS TO RECEIVE PAVEMENT OR STRUCTURES SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.
  6. ELECTRIC, GAS & TELEPHONE IS TO BE DESIGNED AND INSTALLED BY THE APPROPRIATE SERVING UTILITY COMPANY.
  7. IF SITE PLANS CONFLICT WITH CITY OF CARROLLTON STANDARDS, SPECIFICATIONS, ORDINANCES, MAYOR AND CITY COUNCIL/PLANNING COMMISSION REQUIREMENTS OR VARIANCES APPROVED BY THE BOARD OF DEVELOPMENT APPEALS THE LATTER SHALL GOVERN.

TITLE: SITE PLAN  
HAYS MILL GUARDRAIL AT BUFFALO CREEK  
LOCATED IN LL 94 DISTRICT 10 CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA  
SCALE: 1" = 30'  
DATE: 09-22-2015  
JOB NUMBER: 120511  
DESIGNED BY: JDB



PROJECT MANAGER:  
CITY OF CARROLLTON  
ATTN: TOMMY HOLLAND  
315 BRADLEY STREET  
CARROLLTON, GEORGIA 30117  
770-830-2000

GRADING & DRAINAGE PLAN NOTES:

- SEE STRUCTURAL PLANS & DETAILS FOR INFORMATION ON PROPOSED BARRIER/RETAINING WALLS.
- ALL F.G. SPOT ELEVATIONS SHOWN REPRESENT FINISH GROUND ELEVATION.
- SIDEWALK CROSS SLOPE SHALL BE MIN. 1% AND MAX 2%.

GRADING & DRAINAGE NOTES: (CITY OF CARROLLTON)

- ALL STORMWATER CONSTRUCTION SHALL CONFORM TO THE CITY DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- NOTIFY THE CITY ENGINEERING DEPARTMENT AT LEAST 72 HOURS PRIOR TO THE BEGINNING OF LAND DISTURBANCE. A PRE-CONSTRUCTION MEETING WITH THE CITY UTILITY INSPECTOR IS REQUIRED BEFORE CONSTRUCTION WORK BEGINS.
- "AS-BUILT" DRAWINGS SHALL BE FIELD VERIFIED AND STAMPED BY A PROFESSIONAL ENGINEER OR REGISTERED LAND SURVEYOR LICENSED IN THE STATE OF GEORGIA.
- ALL CONTRACTORS FOR GRADING, EROSION CONTROL AND STORMWATER SYSTEM CONSTRUCTION SHALL BE APPROVED BY THE CITY.
- CONTRACTORS HAVE THE RESPONSIBILITY TO COMPLY WITH EROSION CONTROL REQUIREMENTS OF THE LOCAL LAND DISTURBANCE PERMIT AND NPDES GENERAL PERMIT IF APPLICABLE.
- THE CONTRACTOR SHALL COMPLY WITH ALL UTILITIES PROTECTION CENTER REQUIREMENTS. CITY OF CARROLLTON, NOV. 2007

SPECIAL NOTES: (CARROLLTON STORM SEWERS)

- ALL STORM DRAIN PIPE SHALL BE ALUMINUM COATED TYPE 2 CORRUGATED STEEL PIPE PER GADOT SPECIFICATION 844.08 OR BITUMINOUS COATED HELICAL CORRUGATED STEEL CULVERT PIPE PER GADOT SPECIFICATION 844.02 OR REINFORCED CONCRETE PIPE PER GADOT SPECIFICATION 843.01 OR HDPE PER GADOT SPECIFICATION 839. UNDER ALL PUBLIC ROADS USE ONLY REINFORCED CONCRETE PIPE.
- ALL STORM DRAIN PIPE SHALL CONFORM TO GADOT STANDARD 1030D/1030P FOR STRUCTURAL REQUIREMENTS.

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	OVERHEAD TELEPHONE		
	FIBER OPTIC CABLE		
	WATER		
	SANITARY SEWER		
	FORCE MAIN		
	GAS		
	STORM DRAIN		



REGISTERED PROFESSIONAL ENGINEER  
No. 034691  
JOHN D. BASS

REGISTERED PROFESSIONAL ENGINEER  
No. 3125  
M. CALDWELL  
D. CRANFORD

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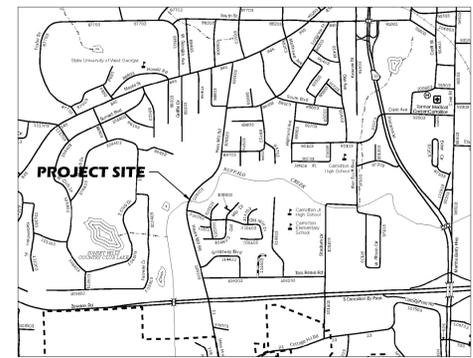
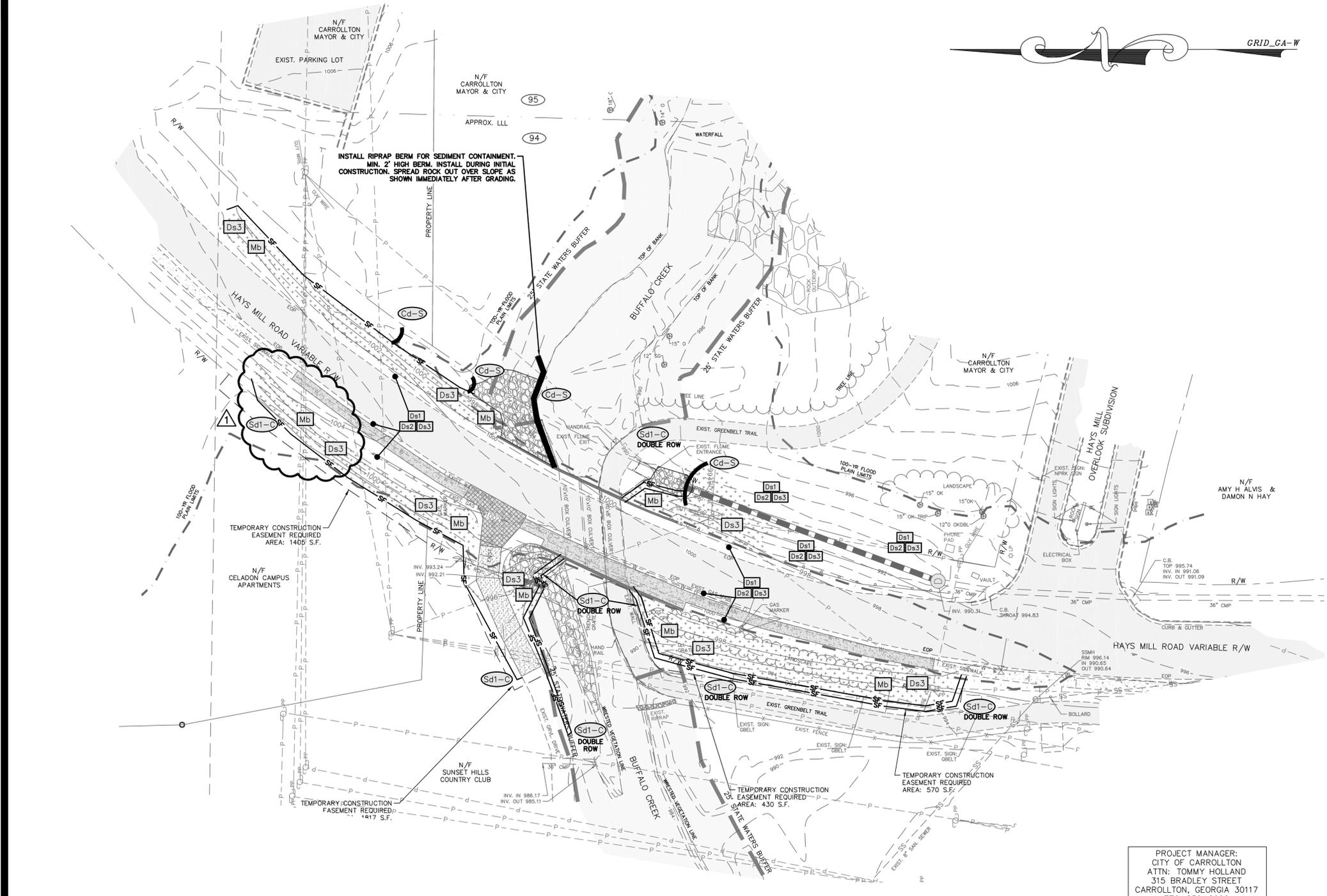
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TITLE: GRADING & STORM DRAINAGE PLAN  
HAYS MILL GUARDRAIL AT BUFFALO CREEK  
LOCATED IN LL 94 DISTRICT 10  
CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA  
SCALE: 1" = 30'  
DATE: 09-22-2015  
JOB NUMBER: 120511  
DESIGNED BY: JDB

NO. DATE REVISION  
06-23-2016 UPDATE GUARDRAIL LAYOUT & GRADING

C-20



**EROSION CONTROL NOTES:**

- EROSION CONTROL DEVICES WILL BE PROPERLY INSTALLED, PRIOR TO SITE DISTURBANCE, AND MAINTAINED IN GOOD WORKING CONDITION UNTIL COMPLETION OF THE PROJECT.
- ALL DISTURBED AREAS TO BE ESTABLISHED TO SUITABLE PERENNIAL VEGETATION, ACCORDING TO USDA SOIL CONSERVATION SERVICE OR GEORGIA EXTENSION SERVICE SPECIFICATIONS, IMMEDIATELY AFTER FINAL GRADING.
- STREETS, SANITARY SEWERS, AND STORM SEWERS WILL BE INSTALLED AND BARE AREAS STABILIZED BEFORE OTHER AREAS ARE DISTURBED.
- 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.**
- EVERY EFFORT SHOULD BE MADE TO CONSERVE AND PROTECT NATURAL VEGETATION.
- SEDIMENT BARRIERS WILL BE PLACED AT THE TOE OF ALL CUT AND FILL SLOPES AND AROUND ALL DROP INLETS; ALSO BELOW ALL LOT DISTURBANCES WHERE EROSION RUN-OFF MIGHT LEAVE THE SITE.
- ALL PIPE OUTLETS ARE TO BE COVERED WITH #50 RIPRAP FOR A MINIMUM DISTANCE OF SIX (6) TIMES THE DIAMETER OF THE PIPE. SEE OUTLET PROTECTION TABLE FOR DIMENSIONS OF RIPRAP FOR INDIVIDUAL OUTLETS.
- 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.**
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.**
- NON-COMPLIANT SITES CAN BE FINED UP TO \$2,500.00 DOLLARS PER DAY, PER VIOLATION AS SET OUT BY THE EROSION AND SEDIMENT CONTROL ACT. THE GEORGIA WATER QUALITY CONTROL ACT PROVIDES FOR FINES UP TO \$50,000.00 DOLLARS PER DAY, PER VIOLATION!!
- NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND THE EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE CONTROL MEASURES (BMP'S) WHICH THE DESIGN PROFESSIONAL DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION.
- ANY AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
- 24-HOUR CONTACT PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL DEVICES AND MEASURES IS:**  
CITY OF CARROLLTON  
NAME: ATTN: TOMMY HOLLAND  
ADDRESS: 315 BRADLEY STREET  
CARROLLTON, GEORGIA 30117  
TELEPHONE #: 770-830-2000

**NOTE:**  
\*EROSION CONTROL DATA & DETAILS IS CONTINUED ON OTHER ASSOCIATED, AND FOLLOWING SHEETS. SEE COMPLETE SET OF CONSTRUCTION PLANS FOR REVIEW.  
THIS SITE IS WITHIN 200' (FEET) OF STATE WATERS  
DISTURBED AREA 0.7 ACRES

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LEGEND		

**EROSION CONTROL LEGEND**

	CHECK DAM - A SMALL TEMPORARY BARRIER ACROSS A SWALE			INLET SEDIMENT TRAP - AN IMPOUNDING AREA CREATED BY EXCAVATING AROUND A STORM DRAIN DROP INLET. THE EXCAVATED AREA WILL BE FILLED AND STABILIZED ON COMPLETION OF CONSTRUCTION ACTIVITIES.
	CONSTRUCTION EXIT - STONE PAD AT SITE EXIT TO REMOVE MUD FROM TIRES. (STONE SIZE = 1 1/2" - 3 1/2" DIAMETER THICKNESS = 6").			
	A PERMANENT DOWN DRAIN STRUCTURE - A PAVED CHUTE, PIPE, DESIGNED TO CONDUCT SURFACE RUNOFF DOWN A SLOPE.			DISTURBED AREA STABILIZATION (TEMPORARY) - ESTABLISHING A TEMPORARY COVER WITH MULCH ONLY.
	RETROFITTING - A DEVICE OR STRUCTURE PLACED IN FRONT OF A PERMANENT STORM WATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER.			DISTURBED AREA STABILIZATION (TEMPORARY) - ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDLINGS.
	A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. (PROPERLY STAKED HAY BALES OR SILT FENCE - SEE DETAIL).			DISTURBED AREA STABILIZATION (PERMANENT) - ESTABLISHING A PERMANENT VEGETATIVE COVER ON ALL BARE AREA. (LANDSCAPING AND PLANTING OF GRASS SHOULD BE DONE AS QUICKLY AS POSSIBLE).
	TEMPORARY SEDIMENT BASIN - A BASIN CREATED BY EXCAVATION OR A DAM, ACROSS A WATERWAY.			DISTURBED AREA STABILIZATION WITH SODDING - A PERMANENT VEGETATIVE COVER USING SODS ONLY ON HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS.
	RIP-RAP - PLACEMENT OF A DURABLE STONE ON UNSTABLE CUT AND FILL SLOPES OR IN CHANNELS TO PROTECT SOIL FROM SLOUGHING OR SCOURING FROM EROSION ACTION OF WATER. STONE SIZE TO BE SELECTED ACCORDING TO VELOCITY OF WATER.			DUST CONTROL MEASURES USED ON SITE WILL INCLUDE MULCH, TEMPORARY/PERMANENT VEGETATION, STONE, AND/OR IRRIGATION.
	STORM DRAIN OUTLET - A STILLING BASIN AT STORM DRAIN OUTLETS TO CUSHION OUTFLOW AND PROTECT EARTH FROM SCOURING ACTION OF WATER. (SEE DETAIL).			EMULSION A POLYACRYLAMIDE EROSION CONTROL EMULSION THAT REDUCES EROSION OF FINE PARTICLES AND COLLOIDAL CLAYS FROM WATER. EMULSION OR POWDERED FORM.
	MONITORING STATION: LOCATION OF MONITORING DEVICE TO MONITOR STORM WATER DISCHARGE FOR TURBIDITY.			EROSION CONTROL MATTING AND BLANKETS - A PROTECTIVE COVERING (BLANKET) OR SOIL STABILIZATION MAT USED TO ESTABLISH PERMANENT VEGETATION ON STEEP SLOPES, CHANNELS, OR SHORELINES.
				THE LAND APPLICATION OF PRODUCT CONTAINING ANIONIC POLYACRYLAMIDE (PAM) AS TEMPORARY SOIL BINDING AGENTS TO REDUCE SOIL EROSION.

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EROSION CONTROL PLAN  
HAYS MILL GUARDRAIL  
AT BUFFALO CREEK

LOCATED IN LL 94 DISTRICT 10  
CITY OF CARROLLTON, CARROLL COUNTY, GEORGIA

DATE: 09-22-2015  
JOB NUMBER: 120511  
DESIGNED BY: JDS

SCALE: 1" = 30'

C-3.0

PROJECT PER REVISED GRADING

DATE: 08-23-2016

NO. 06

DESCRIPTION

LEVEL: 06-23-2016

DATE: 08-23-2016

NO. 06

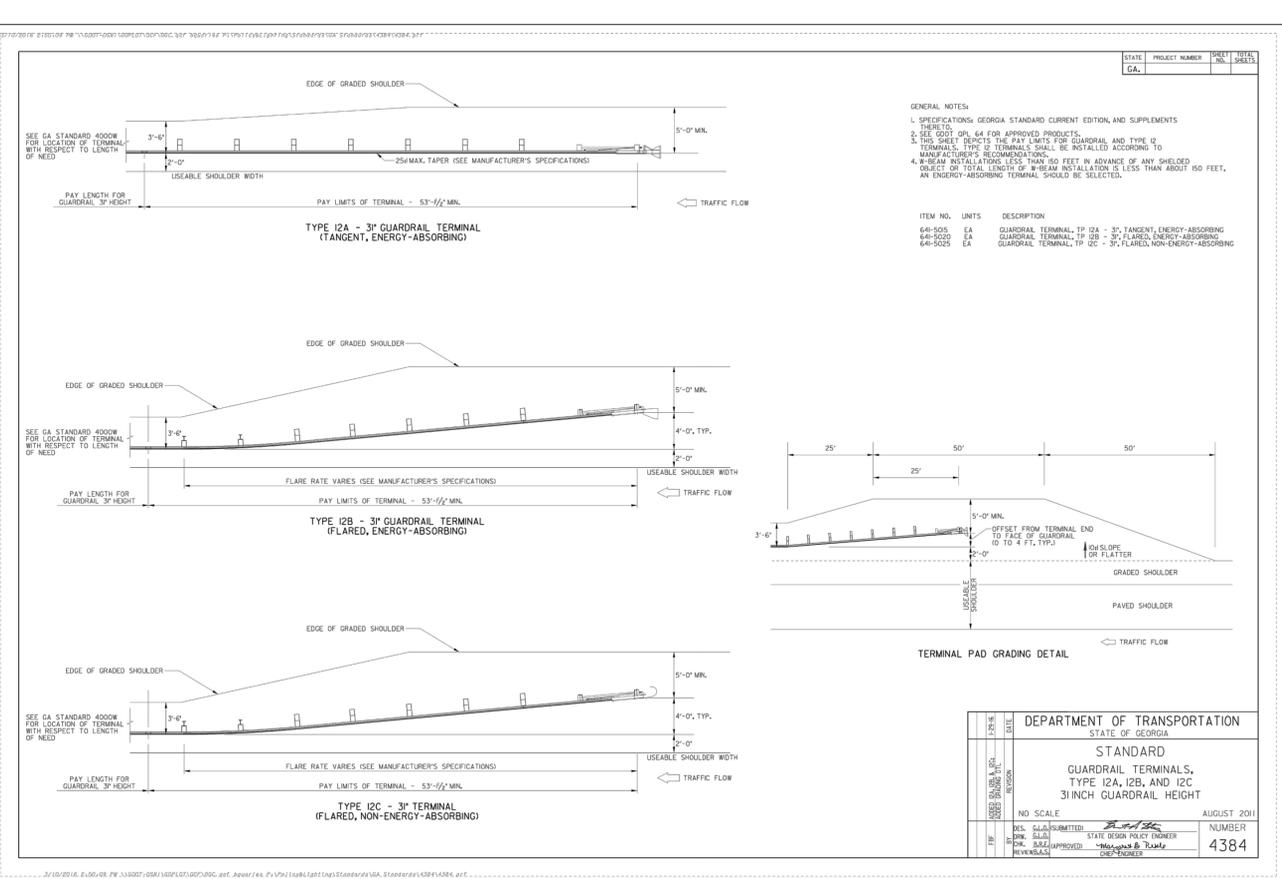
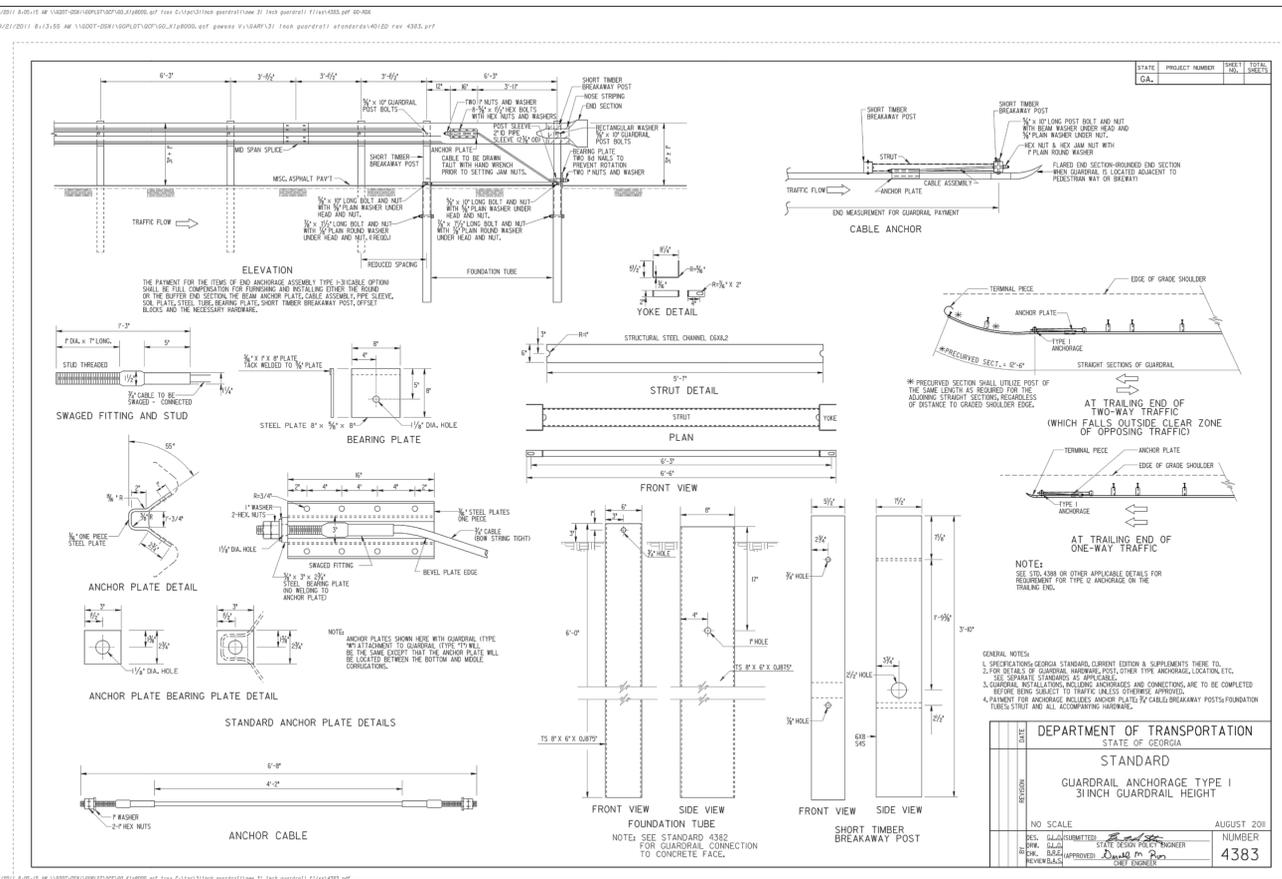
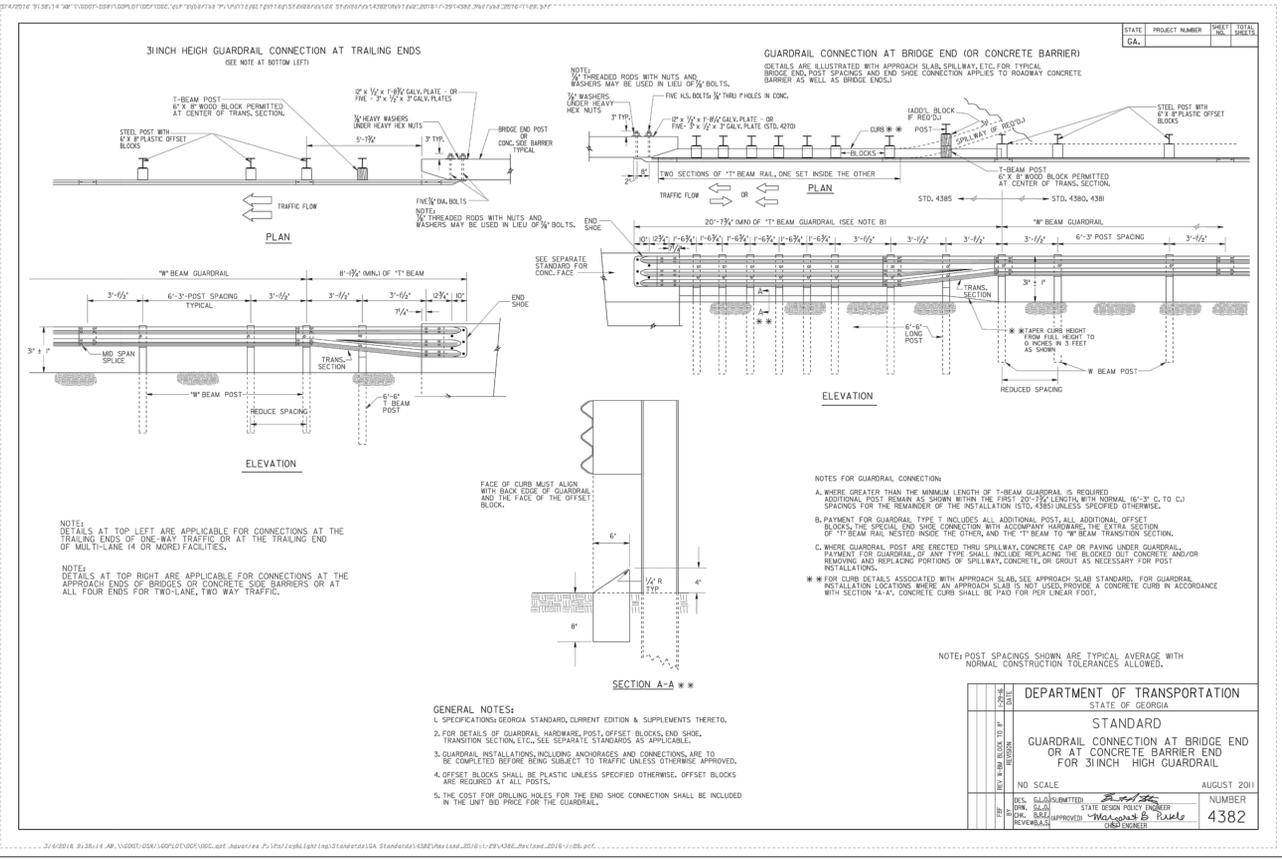
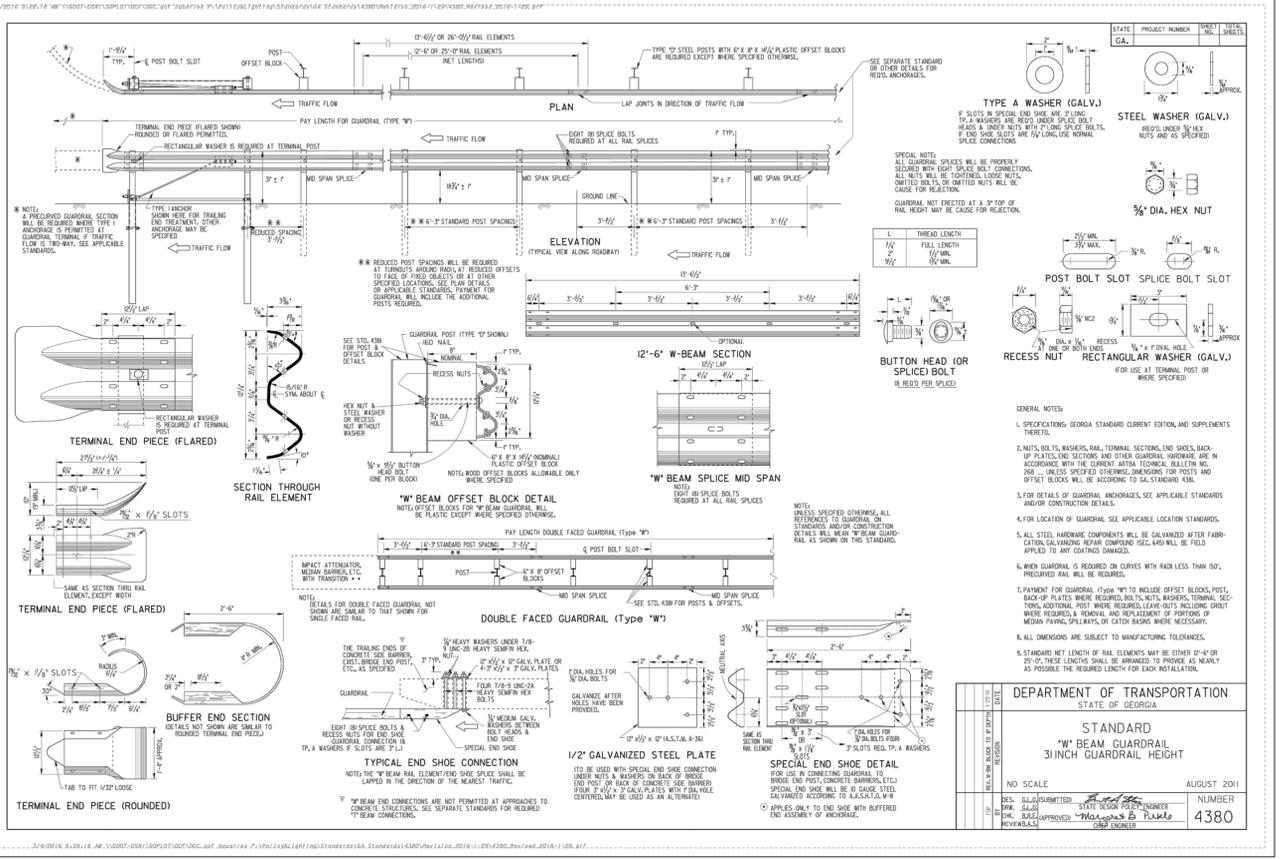
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DESCRIPTION



**GW GEORGIA & WEST, INC.**  
ENGINEERING • LAND SURVEYING • LAND PLANNING

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