

NO.	DATE	DESCRIPTION

**STORM DRAINAGE NOTES**

- ALL STORM DRAIN PIPES HAVE BEEN DESIGNED TO ACCOMMODATE THE 25-YEAR STORM EVENT UNLESS OTHERWISE INDICATED. (8.31 INCH - ATLANTA, GA)
- UNLESS A SPECIFIC TYPE OF PIPE MATERIAL HAS BEEN INDICATED, THE CONTRACTOR SHALL CHOOSE ANY OF THE FOLLOWING TYPES OF PIPE:
  - A. ALUMINIZED STEEL TYPE 2 PIPE WHICH MEETS THE REQUIREMENTS OF THE CURRENT AASHTO M-274. THE PIPE SHALL MEET STRUCTURAL REQUIREMENTS FOR 2'-0" x 8" CORRUGATIONS OUTLINED BELOW:
 

PIPE DIAMETER	MINIMUM EQUIVALENT GAUGE
18" - 24"	16
30" - 48"	16
54"	14
60"	12
  - B. 3600 MESH CORRUGATED POLYETHYLENE PIPE (PE) WHICH MEETS THE REQUIREMENTS OF THE CURRENT AASHTO M-293 AND M-294. MINIMUM PARALLEL PLATE STIFFNESS VALUES SHALL BE AS FOLLOWS:
 

DIAMETER	PIPE STIFFNESS*
42"	19 PSI
48"	17 PSI
60"	14 PSI
  - C. 3600 MESH CORRUGATED POLYETHYLENE PIPE (PE) WHICH MEETS THE REQUIREMENTS OF THE CURRENT AASHTO M-293 AND M-294. MINIMUM PARALLEL PLATE STIFFNESS VALUES SHALL BE AS FOLLOWS:
 

DIAMETER	PIPE STIFFNESS*
42"	19 PSI
48"	17 PSI
60"	14 PSI
  - D. REINFORCED CONCRETE PIPE WHICH MEETS THE REQUIREMENTS OF ASTM DESIGNATION C-15, CLASS III AND THE LATEST REVISIONS THEREOF.
  - E. DUCTILE IRON PIPE WHICH CONFORMS TO AASHTO M-252 AND IS A MEMBER OF PRESSURE CLASS 300.
- UNLESS A SPECIFIC TYPE OF PIPE MATERIAL HAS BEEN INDICATED ON THE DRAWING, PIPE FLOW DESIGN HAS BEEN BASED ON THE MANNING'S COEFFICIENT FOR THE APPROPRIATE DIAMETER OF CORRUGATED METAL PIPE. THESE ARE TAKEN FROM THE HANDBOOK OF STEEL DRAINAGE 4 HIGHWAY CONSTRUCTION PRODUCTS. THIS TYPE OF PIPE HAS THE MOST RESTRICTIVE FLOW OF ANY OF THE PIPE TYPES ALLOWED. SEE STORM DRAIN PROFILES FOR PIPE SIZES & SLOPES.
- SEE SPECIFICATION SECTION 33046 - STORM DRAINAGE FOR COMPLETE REQUIREMENTS. SEE BEDDING DETAILS IN DRAWING.
- TYPE OF CONCENTRATION FOR ALL INLETS IS 5 MINUTES.



**CARTER**  
Engineering Group  
6310 Peach Road, Suite 206  
Atlanta, GA 30329  
478-218-2200

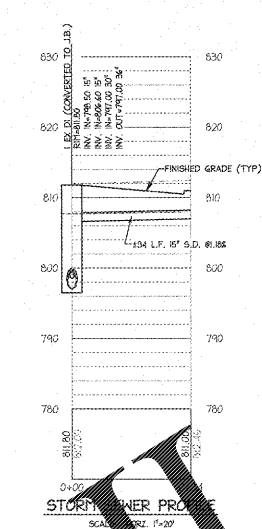


**Manley Spangler Smith Architects**  
A Professional Corporation  
505 East Taylor St.  
P.O. Box 580  
Giffin, Georgia 30224  
Office: 770.227.5473  
Fax: 770.228.3442

PROJECT:  
RENOVATIONS,  
MODIFICATIONS &  
ADDITIONS TO HENRY  
COUNTY SCHOOLS -  
GROUP 10 WOODLAND  
HIGH SCHOOL (ITEM C)  
CLIENT:  
HENRY COUNTY  
BOARD OF EDUCATION

SHEET TITLE:  
STORM DRAIN  
PROFILES

DATE: 06.07.18  
SCALE: 1"=20'  
DRAWN BY: AGM, MAR, MMH  
CHECKED BY: DLG  
SHEET NO.: C4.2



**STORM SEWER PROFILE**  
SCALE: HORIZ. 1"=20'  
VERT. 1"=4'

**STORM SEWER PROFILE**  
SCALE: HORIZ. 1"=20'  
VERT. 1"=4'

**STORM SEWER PROFILE**  
SCALE: HORIZ. 1"=20'  
VERT. 1"=4'

**STORM SEWER PROFILE**  
SCALE: HORIZ. 1"=20'  
VERT. 1"=4'

**STORM DRAIN STRUCTURE SCHEDULE**

Structure Number	Structure Type	Rim/Throat Elev (ft)	Invert Elev (ft)	Pipe Size (in)	Slope (%)	Length (ft)	Drainage Area (sq ft)	Inlet To (ft)	Inlet From (ft)	Weighted Coef (C)	Cumulative Inlet Q (cfs)	Velocity (ft/s)	To Structure
EX1 HW	EX. HEADWALL	812.95	792.25	48	0.022	1.00	65.28	0.00	6	75.10	0.30	1.49	EX DET. POND
EX2 DI	EXISTING DI	811.29	799.20	48	0.022	1.10	263.90	0.00	6	77.40	0.00	1.25	EX2 DI
EX3 DI	EXISTING DI	811.50	797.00	36	0.020	0.45	156.90	0.00	6	76.70	0.00	1.09	EX3 DI
1	EX DI (CONVERTED TO J.B.)	809.50	799.00	36	0.015	1.00	153.00	0.00	6	78.50	0.00	1.25	EX DI (CONVERTED TO J.B.)
2	DROP INLET	805.00	800.20	15	0.013	0.36	56.00	0.10	5	78.40	0.71	0.60	2 DI DROP INLET
3A	DROP INLET	818.10	800.50	15	0.013	1.95	30.25	0.01	5	78.40	0.05	0.78	3A DROP INLET
3B	EX DI (RAISE RIM 6 INCHES)	818.31	813.60	15	0.013	0.36	25.28	1.16	5	78.30	0.58	0.38	3B EX DI (RAISE RIM 6 INCHES)
3C	AREA DRAIN	818.60	815.60	12	0.012	1.11	32.03	0.05	5	78.00	0.58	0.28	3C EX DI (RAISE RIM 6 INCHES)
1A	DW CATCH BASIN	810.50	807.00	15	0.013	1.18	34.00	1.06	5	8.00	0.65	5.67	1 EX DI (CONVERTED TO J.B.)
EX0A	EXISTING SWOB	815.64	807.45	15	0.013	3.00	73.01	0.00	5	59.00	0.00	0.28	EX DI
6	DROP INLET	810.80	797.30	30	0.019	0.73	41.57	0.05	5	7.70	0.71	0.30	6 EX DI (CONVERTED TO J.B.)
8A	ROOF DRAIN	N/A	805.67	5	0.026	0.36	25.67	0.20	5	3.00	0.95	1.82	8A DROP INLET
EX0A	EXISTING DI	812.79	807.30	18	0.015	2.50	212.21	0.00	6	8.00	0.00	3.83	EX DI
4	DROP INLET	808.00	801.30	15	0.013	1.02	33.22	0.00	5	11.10	0.00	0.20	4 DROP INLET
5A	FOUNDATION DRAIN	805.00	801.95	15	0.013	0.86	66.60	0.08	5	8.90	0.38	0.24	5A DROP INLET
7	DROP INLET	805.50	798.15	24	0.017	0.73	119.67	0.44	5	6.80	0.38	1.42	7 DROP INLET
8	DROP INLET	805.50	798.70	18	0.015	0.75	73.65	0.00	5	6.40	0.00	0.90	8 DROP INLET
8A	AREA DRAIN	808.50	802.82	12	0.012	0.52	34.84	0.46	5	8.00	0.58	1.45	8A DROP INLET
9	JUNCTION BOX	807.80	801.80	18	0.016	3.25	54.95	0.00	5	3.80	0.00	0.00	9 DROP INLET
10	EXISTING DI	805.88	802.50	18	0.016	1.08	67.35	0.00	5	8.00	0.00	2.53	10 DROP INLET
11	COOT-HOOR, TYPE E	816.65	811.20	18	0.015	N/A	N/A	N/A	5	N/A	N/A	1.64	11A

NOTE: SOME AREA DRAINS AND SMALL DIAMETER PIPES (12") ARE NOT PROFILED. SEE SHEET C4.1 FOR INFORMATION.

Order Plans @ [WWW.LDILINE.COM](http://WWW.LDILINE.COM)