

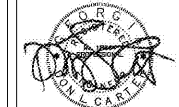
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ISSUED: 11/2/2017 EXPIRES: 11/2/2022



**Manley Spangler Smith Architects**  
A Professional Corporation

525 East Taylor St.  
P.O. Box 880  
Cobb, Georgia 30224  
Office: 770.277.5473  
Fax: 770.228.3442

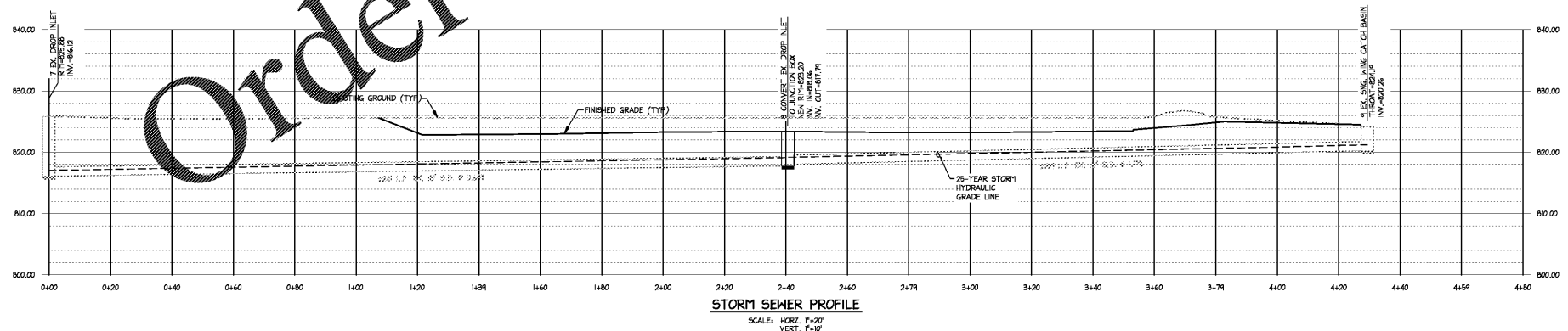
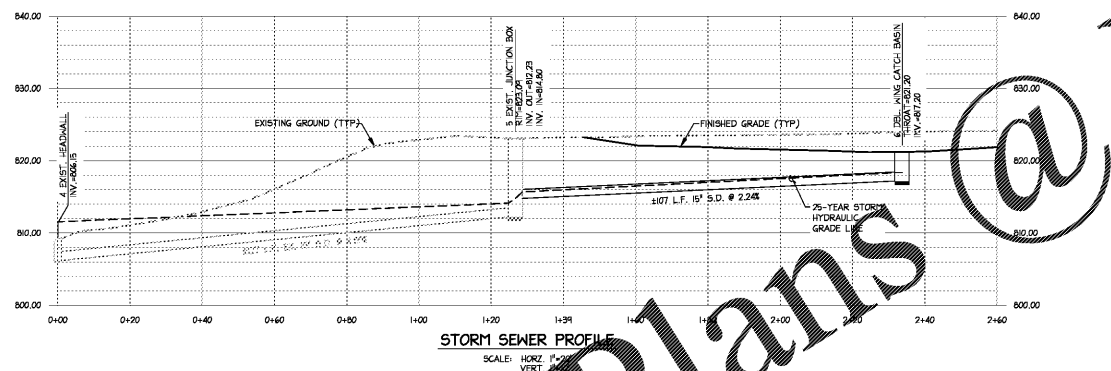
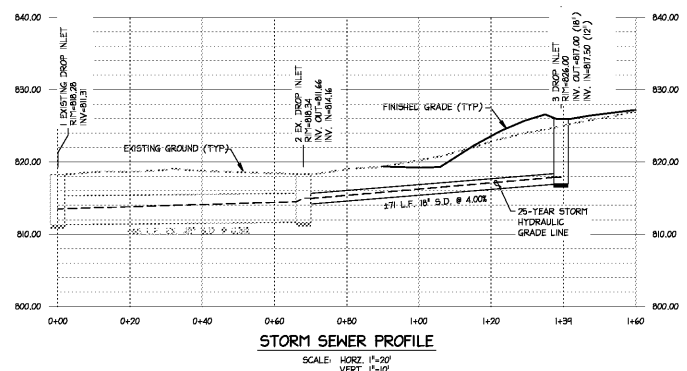
PROJECT:  
**HENRY COUNTY SCHOOLS - DISTRIBUTION CENTER**

CLIENT:  
HENRY COUNTY BOARD OF EDUCATION

SHEET TITLE:  
**STORM DRAIN PROFILES**

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PROJECT NUMBER: 201827  
DATE: 08.13.20  
SCALE: AS SHOWN  
DRAWN BY: BCS  
CHECKED BY: DLC  
SHEET NO.: **C4.3**

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**STORM DRAINAGE NOTES**

- ALL STORM DRAIN PIPES HAVE BEEN DESIGNED TO ACCOMMODATE THE 25-YEAR STORM EVENT UNLESS OTHERWISE INDICATED. (0.31 in/hr. - 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<sup>1</sup>. THE PIPE SHALL MEET STRUCTURAL REQUIREMENTS FOR 2-1/2" x 1/2" CORRUGATIONS OUTLINED BELOW:
 

PIPE DIAMETER	MINIMUM EQUIVALENT GAUGE
18"	16
30"	45
60"	14
60"	12
  - B. SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE (GPEL) 42" - 36" WHICH MEETS THE REQUIREMENTS OF THE CURRENT AASHTO M281 AND AASHTO M282. MINIMUM PARALLEL PLATE STIFFNESS VALUES SHALL BE AS FOLLOWS:
 

DIAMETER	PIPE STIFFNESS*
42"	50 PSI
48"	50 PSI
54"	50 PSI
60"	45 PSI
66"	42 PSI
72"	40 PSI
78"	38 PSI
84"	36 PSI

 \*PER ASTM TEST METHOD D2402
  - C. SMOOTH INTERIOR AND EXTERIOR POLYETHYLENE PIPE (GPEL) 42" - 36" WHICH MEETS THE REQUIREMENTS OF THE CURRENT AASHTO M281 AND AASHTO M282. MINIMUM PARALLEL PLATE STIFFNESS VALUES SHALL BE AS FOLLOWS:
 

DIAMETER	PIPE STIFFNESS*
42"	18 PSI
48"	17 PSI
60"	14 PSI
  - D. REINFORCED CONCRETE PIPE WHICH MEETS THE REQUIREMENTS OF ASTM DESIGNATION C-15, CLASS II AND THE LATEST REVISIONS THEREOF.
  - E. DIGESTIBLE IRON PIPE WHICH CONFORMS TO ASTM 808 AND IS A MINIMUM OF PRESSURE CLASS 308.
- UNLESS A SPECIFIC TYPE OF PIPE MATERIAL HAS BEEN INDICATED ON THE DRAWINGS, 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 & 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 33416 - STORM DRAINAGE FOR COMPLETE REQUIREMENTS. SEE BEDDING DETAILS IN DRAWINGS.
- TIME OF CONCENTRATION FOR ALL INLETS IS 5 MINUTES.

**STORM DRAIN STRUCTURE SCHEDULE**

STRUCTURE NO.	STRUCTURE TYPE	R/W THROAT ELEV.	INV. ELEV.	INLET C.F.S.	TOTAL C.F.S.	AREA (AC.)	VELOCITY (F.P.S.)
1	EXISTING DROP INLET	818.26(R)	811.31	-	64.66	-	-
2	EXISTING DROP INLET	818.34(R)	818.14	2.63	67.02	0.56	7.71
3	EXISTING DROP INLET	826.00(R)	827.02	8.97	8.97	1.31	7.86
4	EXISTING HEADSALL	-	806.15	-	10.30	-	8.34
5	EXISTING JUNCTION BOX	823.04(R)	822.28	1.83	10.30	-	8.34
6	EX. SING. WING CATCH BASIN	821.20(T)	817.20	7.41	7.41	1.86	4.27
7	EXISTING DROP INLET	825.00(R)	816.12	-	8.47	0.44	5.10
8	CONVERT EX. DROP INLET TO JUNCTION BOX	823.20(R)	818.04	8.65	8.65	-	6.02
9	EX. SING. WING CATCH BASIN	824.10(T)	820.24	8.87	8.87	1.34	5.02

NOTE: NOT ALL STORM STRUCTURES ARE LISTED IN THIS SCHEDULE. SEE SHEETS C4.1 AND C4.2 FOR INFORMATION ON ADJUSTMENTS TO OTHER EXISTING STRUCTURES, AREA DRAINS, AND SMALL DIAMETER STORM DRAIN PIPES.

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