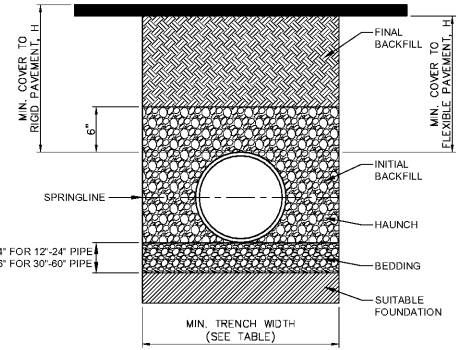


**DOWNSPOUT CONNECTION**  
NOT TO SCALE



**RECOMMENDED MINIMUM TRENCH WIDTHS**

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	35"
24"	48"
30"	58"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

**MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS**

PIPE DIAM.	SURFACE LIVE LOADINGS CONDITION	
	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD)
12" - 48"	12"	48"
54" - 60"	24"	60"

**MINIMUM RECOMMENDED COVER BASED ON RAILWAY LOADING CONDITIONS**

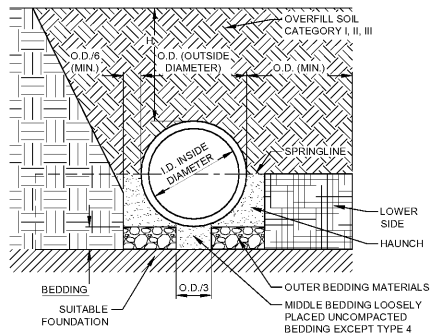
PIPE DIAM.	COOPER
UP TO 24"	24"
30" - 36"	36"
42" - 60"	48"

**NOTES:**

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS". LATEST ADDITION MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION:** WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).
- INITIAL BACKFILL:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER:** MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE. MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

**HDPE BEDDING, TRENCHING, AND BACKFILL**  
NOT TO SCALE

THE SELECTION OF STANDARD INSTALLATION SELECTION SHOULD BE BASED ON AN EVALUATION OF THE QUALITY OF CONSTRUCTION AND INSPECTION ANTICIPATED. A TYPE 1 STANDARD INSTALLATION REQUIRES THE HIGHEST CONSTRUCTION QUALITY AND DEGREE OF INSPECTION. REQUIRED CONSTRUCTION QUALITY IS REDUCED FOR A TYPE 2 STANDARD INSTALLATION, AND REDUCED FURTHER FOR A TYPE 3 STANDARD INSTALLATION. A TYPE 4 STANDARD INSTALLATION REQUIRES VIRTUALLY NO CONSTRUCTION OR QUALITY INSPECTION. CONSEQUENTLY, A TYPE 4 STANDARD INSTALLATION WILL REQUIRE A HIGHER STRENGTH PIPE, AND A TYPE 1 STANDARD INSTALLATION WILL REQUIRE A LOWER STRENGTH PIPE FOR THE SAME DEPTH OF INSTALLATION.



**STANDARD INSTALLATIONS SOIL AND MINIMUM COMPACTION REQUIREMENTS**

INSTALLATION TYPE	BEDDING THICKNESS	HAUNCH AND OUTER BEDDING	LOWER SIDE
TYPE 1	O.D. 24 MIN., NOT LESS THAN 75 MM (3") IF ROCK FOUNDATION, O.D. 12 MIN., NOT LESS THAN 150 MM (6")	95% CATEGORY I, II, III	90% CATEGORY I, 95% CATEGORY II, OR 99% CATEGORY III
TYPE 2	O.D. 24 MIN., NOT LESS THAN 75 MM (3") IF ROCK FOUNDATION, O.D. 12 MIN., NOT LESS THAN 150 MM (6")	90% CATEGORY I, II, III	85% CATEGORY I, 90% CATEGORY II, OR 95% CATEGORY III
TYPE 3	O.D. 24 MIN., NOT LESS THAN 75 MM (3") IF ROCK FOUNDATION, O.D. 12 MIN., NOT LESS THAN 150 MM (6")	85% CATEGORY I, 90% CATEGORY II, OR 95% CATEGORY III	NO COMPACTION REQUIRED, EXCEPT IF CATEGORY III, THEN USE 85%
TYPE 4	NOT COMPACTED, ACCEPTABLE ROCK FOUNDATION, NOT LESS THAN 150 MM (6")	NO COMPACTION REQUIRED, EXCEPT IF CATEGORY III, THEN USE 85%	NO COMPACTION REQUIRED, EXCEPT IF CATEGORY III, THEN USE 85%

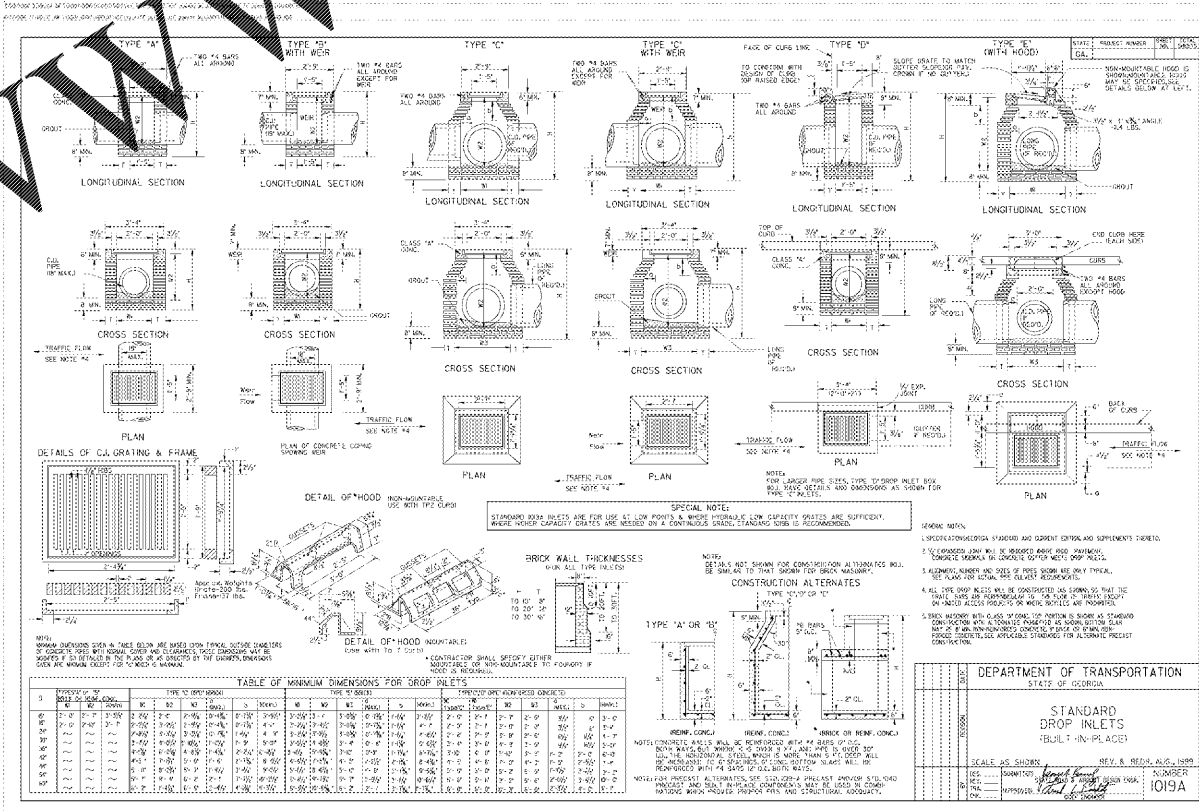
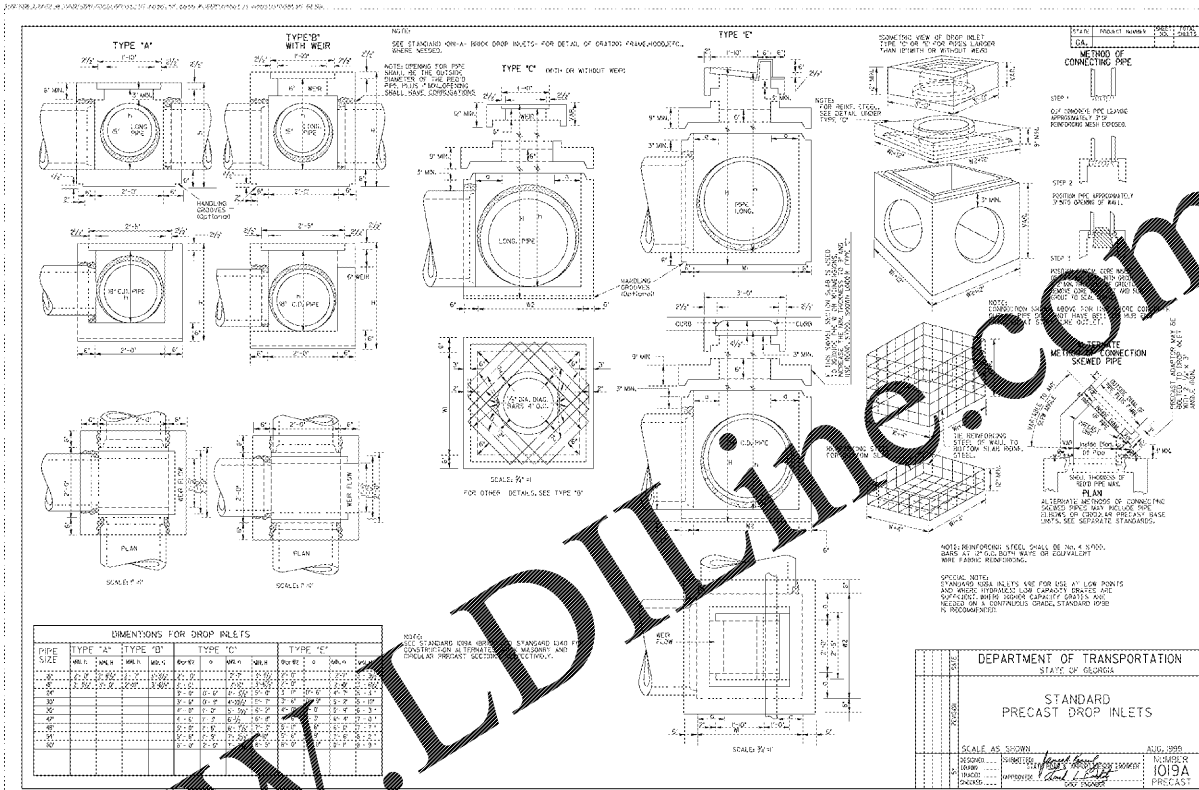
**EQUIVALENT USCS AND AASHTO SOIL CLASSIFICATIONS FOR SIDD SOIL DESIGNATIONS**

SIDD SOIL	USCS	REPRESENTATIVE SOIL TYPES			
		STANDARD AASHTO	STANDARD PROCTOR	MODIFIED PROCTOR	PERCENT COMPACTION
GRAVELLY SAND (CATEGORY I)	SW, SP, GW, GP	A1, A3	100	95	90
			95	90	85
			85	80	75
SANDY SILT (CATEGORY II)	GM, SM, ML, AL, SO, SC WITH LESS THAN 20% PASSING #200 SIEVE	A2, A4	100	95	90
			95	90	85
			80	75	70
SILTY CLAY (CATEGORY III)	CL, MH, GC, SC	A5, A6	100	90	85
			95	85	80
			80	70	60

**NOTES:**

- COMPACTION AND SOIL SYMBOLS, I.E. "95% CATEGORY I", REFERS TO CATEGORY I SOIL MATERIAL WITH MINIMUM STANDARD PROCTOR COMPACTION OF 95%. SEE TABLE FOR MODIFIED PROCTOR VALUES.
- SOIL IN THE OUTER BEDDING, HAUNCH, AND LOWER SIDE ZONES EXCEPT UNDER THE MIDDLE PART OF THE PIPE SHALL BE COMPACTED TO AT LEAST THE SAME COMPACTION AS THE MAJORITY OF SOIL IN THE OVERFILL ZONE.
- FOR TRENCHES, TOP ELEVATION SHALL BE NO LOWER THAN 0.1 H BELOW FINISHED GRADE OR ROADWAYS, ITS TOP SHALL BE NO LOWER THAN AN ELEVATION OF 1 FOOT BELOW THE BOTTOM OF THE PAVEMENT BASE MATERIAL.
- FOR TRENCHES, WIDTH SHALL BE WIDER THAN SHOWN IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES.
- FOR TRENCH WALLS THAT ARE WITHIN 10 DEGREES OF VERTICAL, THE COMPACTION OR FIRMNESS OF THE SOIL IN THE TRENCH WALLS AND LOWER SIDE ZONE NEED NOT BE CONSIDERED.
- FOR TRENCH WALLS WITH GREATER THAN 10 DEGREE SLOPES THAT CONSIST OF EMBANKMENT, THE LOWER SIDE SHALL BE COMPACTED TO AT LEAST THE SAME COMPACTION AS SPECIFIED FOR THE SOIL IN THE BACKFILL ZONE.
- SUBTRENCHES
  - A SUBTRENCH IS DEFINED AS A TRENCH WITH ITS TOP BELOW FINISHED GRADE BY MORE THAN 0.1 H OR, FOR ROADWAYS, ITS TOP IS AT AN ELEVATION LOWER THAN 1 FT. BELOW THE BOTTOM OF THE PAVEMENT BASE MATERIAL.
  - THE MINIMUM WIDTH OF A SUBTRENCH SHALL BE 1.33 OUTSIDE Ø OR WIDER IF REQUIRED FOR ADEQUATE SPACE TO ATTAIN THE SPECIFIED COMPACTION IN THE HAUNCH AND BEDDING ZONES.
  - FOR SUBTRENCHES WITH WALLS OF NATURAL SOIL, ANY PORTION OF THE LOWER SIDE ZONE IN THE SUBTRENCH WALL SHALL BE AT LEAST AS FIRM AS AN EQUIVALENT SOIL PLACED TO THE COMPACTION REQUIREMENTS SPECIFIED FOR THE LOWER SIDE ZONE AND AS FIRM AS THE MAJORITY OF SOIL IN THE OVERFILL ZONE, OR SHALL BE REMOVED AND REPLACED WITH SOIL COMPACTED TO THE SPECIFIED LEVEL.

**RCP BEDDING, TRENCHING, AND BACKFILL**  
NOT TO SCALE



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2885 WEBB ROAD  
MILTON, GA 30004  
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PARCEL #22 527010482814, FULTON CO PERMIT # 20-050WR

SEAL:

REVISIONS DATE  
ENVIRONMENTAL HEALTH 08-12-2020  
CITY COMMENTS 10-7-2020  
  
PROJECT MANAGER: JPS  
DRAWING BY: JCW  
JURISDICTION: MILTON, GA  
DATE: 07-15-2020  
SCALE: AS SHOWN  
TITLE:

CONSTRUCTION DETAILS  
SHEET NUMBER: **C-6.2**  
COMMENTS: NOT RELEASED FOR CONSTRUCTION  
JOB/FILE NUMBER: 1418.001

