# SUMMARY OF DRAINAGE QUANTITIES

NOTE: THE CONTRACTOR SHALL PROVIDE ADDITIONAL STORM SEWER CAPACITY CALCULATIONS IF A PIPE MATERIAL OTHER THAN CONCRETE IS SELECTED.

PIPE CULVERT MATERIAL ALTERNATES

| TYPE OF PIPE INSTALLATION | CONCRETE | CORRUGATED STEEL AASHTO M-36: ALUMINUM COATED (TYPE 2) CORR. STEEL | CORRUGATED STEEL AASHTO M-36: PLAIN ZINC COATED | CORRUGATED ALUMINUM AASHTO M-196: PLAIN UNCOATED ALUMINUM | PLASTIC: CORR. POLY-ETHYLENE AASHTO M-252 | PLASTIC: CORR. POLY-ETHYLENE SMOOTH-LINED AASHTO M-294 TYPE S | PLASTIC: POLY VINYL CHLORIDE (PVC) PROFILE WALL AASHTO-304 |
|---|---|---|---|---|---|---|---|
| LONGITUDINAL INTERSTATE AND TRAVEL BEARING | X | | | | | | |
| LONGITUDINAL NONINTERSTATE AND NONTRAVEL BEARING | X | X | | X | | X | X |
| STORM DRAIN / CROSS DRAIN / GRADE ≤ 10% / ADT < 250 | X | X | X | X | | X | X |
| GRADE ≤ 10% / 250 < ADT < 1500 | X | | | X | | | |
| GRADE ≤ 10% / ADT > 1500 | X | | | | | | |
| GRADE > 10% / ADT < 250 | | X | X | X | | X | X |
| GRADE > 10% / ADT > 250 | | | | X | | | |
| SIDE DRAIN | X | X | X | X | | X | X |
| PERMANENT SLOPE DRAIN | | X | X | X | | X | X |
| PERFORATED UNDERDRAIN | | X | X | X | X | X | |

| DRAINAGE STRUCTURE NUMBER | LOCATION | LINEAR FEET: SLOPE DRAIN 18" | SLOPE DRAIN 24" | STORM DRAIN 15" | STORM DRAIN 18" | STORM DRAIN 24" | STORM DRAIN 30" | STORM DRAIN 36" | STORM DRAIN 48" | MAXIMUM HEIGHT OF FILL OVER PIPE (FT) | FOUNDATION BACK FILL MAT'L (TP II CY) | FLARED END SECTIONS GA. STD. 1120 STORM DRAIN (EA/SZ) | SAFETY END SECTIONS GA. STD. 1120 SIDE DRAIN (EA/SZ) | STRUCTURE DEPTH (H) (LF) | DROP INLETS GP 1: GA. STD. 5001 M1 6 FT OR LESS (EA) | ADD'L DEPTH (LF) | GA. STD. 5001 M2 6 FT OR LESS (EA) | ADD'L DEPTH (LF) | GA. STD. 1019 A TYPE "B" WITH WEIR 6 FT OR LESS (EA) | ADD'L DEPTH (LF) | GA. STD. 9031S 6 FT OR LESS (EA) | ADD'L DEPTH (LF) | DROP INLETS GP 2: GA. STD. 5001 M1 6 FT OR LESS (EA) | ADD'L DEPTH (LF) | GA. STD. 5001 M2 6 FT OR LESS (EA) | ADD'L DEPTH (LF) | GA STD 9031U CLASS A CONC. COLLAR (EA) | GA STD 1125 CLASS A CONC. HEADWALL INCL REINF STEEL (CY) | MANHOLE GA. STD. 1011 A TYPE 1 42" OR LESS: 6 FT OR LESS (EA) | ADD'L DEPTH CLASS 1 (LF) | ADD'L DEPTH CLASS 2 (LF) | ADD'L DEPTH CLASS 3 (LF) | TYPE 2 48" TO 84": 6 FT OR LESS (EA) | ADD'L DEPTH CLASS 1 (LF) | ADD'L DEPTH CLASS 2 (LF) | ADJUST M.H. TO GRADE (EA) | RECONSTRUCT M.H. (EA) | CLASS B CONC. (FLUMES AND SPILLWAY APRON) (CY) | JACK OR BORE PIPE - 18" (LF) | JACK OR BORE PIPE - 24" (LF) | JACK OR BORE PIPE - 30" (LF) | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M-1 | 412+86, 152' RT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N-6 | 417+50, CENTERLINE | | | | 450 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| N-5 | 422+00, CENTERLINE | | | | 450 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| N-4 | 426+50, CENTERLINE | | | | 400 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| N-1 | 429+09, 138' RT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | EXIST CROSS DRAIN OUTLET DOUBLE 9 X 7 BOX CLVT |
| N-3 | 430+50, CENTERLINE | | | | 350 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | EXISTING DROP INLET |
| N-2 | 431+98, 149' LT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | EXIST CROSS DRAIN INLET DOUBLE 9 X 7 BOX CLVT |
| N-7 | 434+00, CENTERLINE | | | | 350 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| N-8 | 437+50, CENTERLINE | | | | 350 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| N1-2 | 440+85, CENTERLINE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | EXISTING DROP INLET |
| N1-1 | 440+85, 136' LT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | EXISTING DROP INLET |
| N1-3 | 446+34, CENTERLINE | | | | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N1-4 | 449+50, CENTERLINE | | | | 320 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| N2-4A | 452+84, 4' RT | | | | 9 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| N2-4 | 452+84, 4' LT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | USE EXISTING MEDIAN OUTLET PIPE |
| N2-3 | 452+84, 129' LT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N2-1 | 453+32, 144' LT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4.80 | | | | | | | | | | | | REPLACE BROKEN 48" HEADWALL |
| N2-2 | 454+93, 140' RT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | EXIST CROSS DRAIN INLET 48" |
| N2-5 | 456+00, CENTERLINE | | | | 300 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| N4-1 | 457+94, 90' RT. | | | 30 | | | | | | | | 1/15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | EXTEND EXISTING |
| N4-2 | 458+85, CENTERLINE | | | | | | | | | | | | | 5.76 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N4-3 | 460+74, CENTERLINE | | | | 189 | | | | | | | | | 5.42 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| N4-4 | 462+00, CENTERLINE | | | | 126 | | | | | | | | | 5.06 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| N4-5 | 464+35, CENTERLINE | | | | 235 | | | | | | | | | 5.05 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| N6-1 | 466+88, 80' LT. | | | | | | | | | | | 1/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N6-2 | 466+88, CENTERLINE | | | | | | | | | | | | | 4.97 | | | 1 | | | | | | | | | | | | | | | | | | | | | 90 | | PROPOSED JACK OR BORE |
| N6-3 | 468+00, CENTERLINE | | | | 112 | | | | | | | | | 5.01 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| N6-4 | 469+50, CENTERLINE | | | | 150 | | | | | | | | | 4.98 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| N6-5 | 471+10, CENTERLINE | | | | 160 | | | | | | | | | 5.19 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| N6-6 | 473+15, CENTERLINE | | | | 105 | | | | | | | | | 4.96 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| N5-1 | 474+86, 107' LT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N5-2 | 474+86, CENTERLINE | | | | | | | | | | | | | 5.20 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | EXIST CROSS DRAIN OUTLET 36" PIPE |
| N5-3 | 476+00, CENTERLINE | | | | 114 | | | | | | | | | 5.14 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| N3-1 | 476+62, 134' LT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | EXIST CROSS DRAIN INLET 36" PIPE |
| N5-4 | 477+20, CENTERLINE | | | | 120 | | | | | | | | | 4.98 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| N3-2 | 477+29, 120' RT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 1/15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SUB-TOTAL SHEET 8 | | | 30 | 4790 | | | | | | | 1/18 | | | 1 | | 11 | | | | 8 | | | | | | | | 4.80 | | | | | | | | | 90 | | |

NOTE: FOR FLUME QUANTITIES SEE DRAWING 6-02
NOTE: FOR RIP RAP QUANTITIES SEE DRAWING 6-17


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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
QUANTITIES - DRAINAGE

DRAWING No. 6-11


GPLN
#PRST$PA
#PRST$PB
#PRST$PC
#PRST$PD
#PRST$PE
#PRST$PF
#PRST$PG
#PRST$PH
#PRST$PA
P:\PROJECTS\JBT\T08-85\DESIGN\DGN\BRIDGE\H1TP\DGN
P:\PROJECTS\JBT\T08-85\DESIGN\DGN\BRIDGE\H2TP\DGN
P:\PROJECTS\JBT\T08-85\DESIGN\DGN\BRIDGE\H3MA\DGN
P:\PROJECTS\JBT\T08-85\DESIGN\DGN\BRIDGE\H4MA\DGN
P:\PROJECTS\JBT\T08-85\DESIGN\DGN\BRIDGE\H5MA\DGN