

2 - #4 REINFORCED BARS
COAT EXPOSED AREA OF
BARS WITH ROSKOTE

FITTING Ø	DIA (IN)	B (FT)	H (FT)	VOL (YD ³)
11-1/4	6	1.0	0.3	0.008
	8	1.2	0.4	0.012
	10	1.5	0.6	0.026
22-1/2	12	1.9	0.8	0.055
	16	2.4	1.0	0.110
	6	1.3	0.5	0.017
45	8	1.7	0.7	0.039
	10	2.1	0.9	0.075
	12	2.5	1.1	0.129
16	3.2	1.6	0.308	
	6	1.7	0.7	0.039
	8	2.2	0.9	0.083
12	2.7	1.2	0.164	
	3.3	1.5	0.305	
	4.3	2.0	0.688	

NOTE:
1. DIMENSIONS OF THRUST BLOCKS WERE CALCULATED ASSUMING A STATIC PRESSURE OF 250 PSI, A DEPTH OF COVER OF 4 FT., AND A SOIL BEARING PRESSURE OF 2,000 PSF.
2. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE NOT BE EXCEEDED.

DEKALB COUNTY, GA. Department of Watershed Management 11/07
STANDARD DETAILS
Blocking Detail Downward Thrust

FITTING Ø	B (IN)	H (FT)	C (FT)	VOL (YD ³)
11-1/4	6	0.9	0.8	0.010
	8	1.2	1.1	0.022
	10	1.5	1.3	0.041
22-1/2	12	1.6	1.6	0.071
	16	2.3	2.2	0.149
	6	1.3	1.1	0.023
45	8	1.6	1.6	0.048
	10	2.1	1.9	0.097
	12	2.5	2.3	0.165
90	16	3.3	3.0	0.362
	6	1.7	1.6	0.050
	8	2.2	2.2	0.113
12	2.8	2.7	1.40	0.222
	3.3	3.3	1.65	0.375
	4.5	4.3	2.25	0.897
16	3.1	2.9	1.55	0.278
	3.8	3.7	1.90	0.530
	4.6	4.4	2.30	0.921
TEES	6.1	5.9	3.05	2.142
	2.1	1.8	1.00	0.073
	2.6	2.5	1.30	0.170
10	3.2	3.1	1.60	0.319
	3.9	3.7	1.95	0.565
	5.1	5.0	2.55	1.303

NOTE:
1. DIMENSIONS OF THRUST BLOCKS WERE CALCULATED ASSUMING A STATIC PRESSURE OF 250 PSI AND A SOIL BEARING PRESSURE OF 2,000 PSF.
2. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE NOT BE EXCEEDED.

DEKALB COUNTY, GA. Department of Watershed Management 11/07
STANDARD DETAILS
Blocking Detail Horizontal Thrust

2 - #4 REINFORCED BARS
COAT EXPOSED AREA OF
BARS WITH ROSKOTE

FITTING Ø	DIA (IN)	B (FT)	H (FT)	VOL (YD ³)
11-1/4	6	3.0	2.2	0.4
	8	3.5	2.4	0.6
	10	4.0	3.2	1.0
22-1/2	12	4.5	3.5	1.4
	16	5.0	4.8	2.4
	6	3.5	2.9	0.7
45	8	4.0	3.9	1.2
	10	4.5	4.6	1.9
	12	5.5	4.8	2.7
16	6.5	5.9	4.8	
	4.5	3.4	1.3	
	5.0	4.6	2.2	
10	6.0	5.1	3.5	
	6.5	6.2	5.0	
	8.0	7.3	8.8	

NOTE:
1. VOLUME WAS CALCULATED NEGLECTING WEIGHT OF FITTING, WATER, AND BACKFILL USING A STATIC PRESSURE OF 250 PSI.
2. DIMENSIONS OF BLOCK WERE CALCULATED ASSUMING A SOIL BEARING PRESSURE OF 2,000 POUNDS PER SQUARE FOOT.
3. DIMENSIONS SHOWN CAN BE VARIED AS FIELD CONDITIONS DICTATE, BUT IT IS IMPORTANT THAT THE CORRECT VOLUME AS SHOWN IN TABLE BE USED AND THAT ALLOWABLE SOIL BEARING PRESSURE NOT BE EXCEEDED.

DEKALB COUNTY, GA. Department of Watershed Management 11/07
STANDARD DETAILS
Blocking Detail Upward Thrust

NOTES:
1. SEE DESIGN STANDARDS FOR ADDITIONAL BEDDING AND TRENCH BACKFILL REQUIREMENTS.
2. DEPTH OF COVER OVER WATER MAINS SHALL BE 4'-0" AS MEASURED FROM TOP OF PAVEMENT TO TOP OF PIPE.
3. MINIMUM 6" COMPACTED SOIL BETWEEN BOTTOM OF PIPE AND ROCK.
4. NO ROCK IN BACKFILL FOR FIRST 2'-0" ABOVE TOP OF PIPE.
5. BEDDING AND BACKFILL TO BE NO. 57 STONE UNDER ROADWAYS AND PAVED AREAS.
6. BEDDING TO BE GDOT TYPE II FOUNDATION BACKFILL.
7. BACKFILL TO BE FREE OF ORGANICS, OBJECTIONABLE MATERIAL AND STONES LARGER THAN 6" IN ITS LONGEST DIMENSION.

DEKALB COUNTY, GA. Department of Watershed Management 11/07
STANDARD DETAILS
Backfill and Allowable Trench Widths Detail

1 DOWNWARD THRUST BLOCKING
C4.2 N.T.S.

2 HORIZONTAL THRUST BLOCKING
C4.2 N.T.S.

3 UPWARD THRUST BLOCKING
C4.2 N.T.S.

4 BACKFILL AND TRENCH WIDTHS
C4.2 N.T.S.

MAX. LIMIT OF PAYMENT 42" ± PIPE O.D.
PLAIN PORTLAND CEMENT CONC. P.V.M.T

NOTES:
1. SAW CUT EXISTING PAVEMENT TO PROVIDE STRAIGHT VERT. JOINTS.
2. SURFACES TO BE CLEANED AND BITUMINOUS TACK COAT APPLIED BEFORE PLACEMENT OF ASPHALTIC TOP.
3. FOR EXIST SURFACE OF PORTLAND CEMENT CONCRETE, FURNISH NEW SURFACE OF 3000 PSI COMPRESSIVE STRENGTH CONCRETE.
4. ON LONGITUDINAL CUTS, BEDDING 150 FEET, THE CONC IN TRENCH SHALL BE BROKE FLUSH WITH THE EXISTING PAVEMENT AND THE ENTIRE WIDTH OF ROADWAY RESURFACED WITH 1-IN MIN TK OF ASPHALTIC CONC.

DEKALB COUNTY, GA. Department of Watershed Management 11/07
STANDARD DETAILS
Typical Patch and Resurface Detail

5 PAVEMENT PATCH & RESURFACE
C4.2 N.T.S.

UTILITY DETAILS - WATER

SKYLINE
City of Dunwoody
Baseball Facilities at Brook Run Park
CLIENT: City of Dunwoody
DESIGNED: MDC
DRAWN: BKJ
CHECKED: BKJ
DATE: 04/12/2017
SCALE: PROJECT NO.
PROJECT TITLE: UTILITY DETAILS
DRAWING NO.: C-4.2
SHEET: OF