

323 W. 9RD ST.  
P.O. BOX 180  
MT. CARMEL, IL  
62863

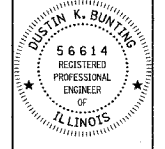
PHONE:  
(618)-262-8651  
FAX:  
(618)-263-3327

405 W. STATE ST.  
SUITE 1  
PRINCETON, IN  
47670

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(812)-385-2812



PROFESSIONAL DESIGN FIRM  
LAND SURVEY & PROFESSIONAL ENGINEERING CORPORATION  
184-000887  
(62-032435)(35-002769)



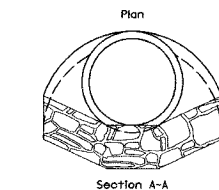
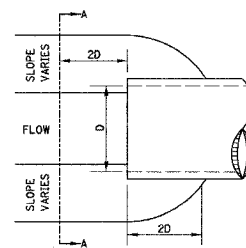
DUSTIN K. BUNTING  
NAME  
*[Signature]*  
SIGNATURE  
DATE  
11-20-04  
11-30-03  
EXPIRES

F.A.S. 880 (CH 8)  
BELLE PRAIRIE ROAD  
SECTION 02-00091-00-FP  
HAMILTON COUNTY, ILLINOIS

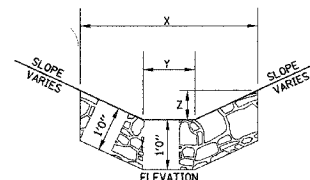
### SUMMARY OF QUANTITIES

QUANTITY	UNIT	ITEM	FOOO CODE NO.
0.85	ACRE	TREE REMOVAL, ACRES	20100500
6381.00	CU YD	EARTH EXCAVATION	20200100
1585.00	CU YD	FURNISHED EXCAVATION	20400800
9.67	ACRE	SEEDING, CLASS 2 (SPECIAL)	25001000
9.67	ACRE	SEEDING, CLASS 7 (SPECIAL)	25001845
152.00	EACH	TEMPORARY DITCH CHECKS	28000300
1275.00	FOOT	PERIMETER EROSION BARRIER	28000400
273.00	TON	STONE RIPRAP DITCH	28102600
34557.00	100 WT	CEMENT	35200500
52694.00	SQ YD	PROCESSING SOIL-CEMENT BASE COURSE 8"	35200300
559.00	TON	AGGREGATE SURFACE COURSE, TYPE B	40200800
15318.00	GALLON	BITUMINOUS MATERIALS (PRIME COAT)	40300100
96730.00	GALLON	BITUMINOUS MATERIALS (COVER & SEAL COATS)	40300300
1532.00	TON	COVER COAT AGGREGATE	40300500
766.00	TON	SEAL COAT AGGREGATE	40300600
4737.00	SO YD	PAVEMENT REMOVAL	44000100
30.00	FOOT	PIPE CULVERTS, CLASS A, TYPE 1 24"	542A0229
30.00	FOOT	PIPE CULVERTS, CLASS A, TYPE 1 30"	542A0235
146.00	FOOT	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24"	542A5479
32.00	FOOT	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 30"	542A5485
50.00	FOOT	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	542A5491
48.00	FOOT	PIPE CULVERTS, CLASS D, TYPE 1 12"	542D0217
144.00	FOOT	PIPE CULVERTS, CLASS D, TYPE 1 15"	542D0220
32.00	FOOT	PIPE CULVERTS, CLASS D, TYPE 1 18"	542D0223
34.00	FOOT	PIPE CULVERTS, CLASS D, TYPE 1 24"	542D0229
350.00	FOOT	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 15"	542D5470
30.00	FOOT	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 18"	542D5473
34.00	FOOT	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 24"	542D5479
32.00	FOOT	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 30"	542D5485
34.00	FOOT	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 36"	542D5491
2.00	EACH	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	54213669
2.00	EACH	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	54213675
10.00	EACH	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 24"	54214509
2.00	EACH	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 30"	54214515
4.00	EACH	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 36"	54214521
2.00	EACH	METAL END SECTIONS 24"	54215559
2.00	EACH	METAL END SECTIONS, EQUIVALENT ROUND-SIZE 24"	54215769
2.00	EACH	METAL END SECTIONS, EQUIVALENT ROUND-SIZE 30"	54215775
2.00	EACH	METAL END SECTIONS, EQUIVALENT ROUND-SIZE 36"	54215781
6.00	EACH	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	66600105
79.25	SO FT	SIGN PANEL-TYPE 1	72000100
122.00	FOOT	METAL POST-TYPE A	72900100
73.60	CU YD	CONTROLLED LOW-STRENGTH MATERIAL	Z0013825

#### STONE RIPRAP DITCH DESIGN



NOTE: FOR PLACEMENT, QUALITY GRADATION AND OTHER MISCELLANEOUS REQUIREMENTS FOR STONE RIPRAP DITCH-SEE SPECIAL PROVISIONS.



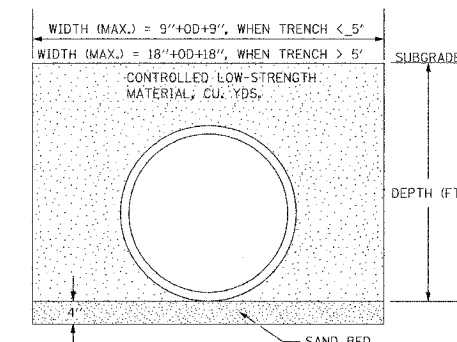
NOTE:

BOTTOM OF DITCH	SLOPE		
	1 1/2:1	2:1	3:1
2 FT	X= 5 FT	6 FT	8 FT
	Y= 2 FT	2 FT	2 FT
	Z= 1 FT	1 FT	1 FT
	0.40	0.48	0.62 TON/LIN. FT

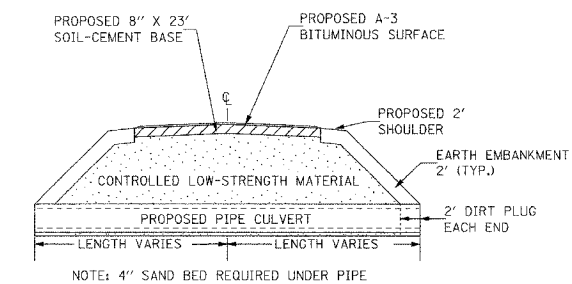
BOTTOM OF DITCH	SLOPE		
	1 1/2:1	2:1	3:1
3 FT	X= 6 FT	7 FT	9 FT
	Y= 3 FT	3 FT	3 FT
	Z= 1 FT	1 FT	1 FT
	0.48	0.56	0.70 TON/LIN. FT

BOTTOM OF DITCH	SLOPE		
	1 1/2:1	2:1	3:1
4 FT	X= 7 FT	8 FT	10 FT
	Y= 4 FT	4 FT	4 FT
	Z= 1 FT	1 FT	1 FT
	0.56	0.64	0.78 TON/LIN. FT

#### DETAIL OF ACROSS ROAD REINFORCED CONCRETE CULVERT PIPES



#### PROPOSED TYPICAL CROSS SECTION AT PIPE CULVERTS



#### EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	ESTIMATED UNSUITABLE MATERIAL	SUITABLE MATERIAL ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
STA 0+50 TO 202+50	5698.7	0.0	0.0	4274.0	5992.3	-1718.3
SR STA 64+22 LT	276.7	0.0	0.0	207.5	165.3	42.2
PE STA 186+37 RT	213.7	0.0	0.0	160.3	158.7	1.6
PE STA 197+61 LT	174.8	0.0	0.0	131.1	54.4	76.7
REMAINING	16.7	0.0	0.0	12.5	0.0	12.5
SR'S, FE'S & PE'S						
TOTAL	6380.6	0.0	0.0	4785.4	6370.7	-1585.3

SHEET TITLE:

SUMMARY OF QUANTITIES & MISC DETAILS

SCALE: VARS  
BY: DKB  
DATE:  
REV:

3 OF 57 SHEETS

SHEET NO. 3