DRAINAGE INLET SCHEDULE

NO.	BOX	GRATE	T.G. EL.	INV. EL.	STATION	OFFSET
21	34" X 24"	I	+	258.80	7+11.6	++
22*	66" X 30"	I	+	258.24	7+23.9	++
23*	48" X 30"	I	++		7+29.2	++
24	72" X 24"	I	+	258.13	7+39.5	++
25	34" X 24"	I	+	258.18	76+00.0	++
26	34" X 24"	I	+	257.04	76+50.0	++
27	34" X 24"	I	+	257.74	76+50.0	++
28	66" X 30"	I	+	261.49	78+59.4	++
48	66" X 30"	I	+	261.18	78+59.4	++
52	72" X 24"	I	+	259.27	72+75.0	++
53	34" X 24"	I	+	257.65	75+21.9	++

* REMOVE SECTION OF EXISTING PIPE AS REQUIRED TO CONSTRUCT DI-22 AND DI-23. PATCH PIPE INTO NEW INLET. COST INCIDENTAL TO ITEM 708054-DRAINAGE INLET, 66" X 30", AND ITEM 708052-DRAINAGE INLET, 48" X 30", RESPECTIVELY.
** MATCH EXISTING PIPE INVERT.
+ MATCH FLOWLINE OF PROPOSED CURB AND GUTTER.
++ MATCH PROPOSED CURBLINE.

JUNCTION BOX SCHEDULE

NO.	TYPE	INV. EL.	STATION	OFFSET
* 2	SPECIAL	x	76+65.8	51', RT.
+ 6	66"X30"	++	76+98.0	22.3', LT.

+ REMOVE SECTION OF EXISTING PIPE AS REQUIRED TO CONSTRUCT JB-6. PATCH PIPE INTO NEW JUNCTION BOX. COST INCIDENTAL TO ITEM 708587 - JUNCTION BOX, 66" X 30". THERE WILL BE APPROXIMATELY 8" OF CLEARANCE BETWEEN OUTSIDE OF PROPOSED JUNCTION BOX AND OUTSIDE WALL OF ADJACENT PIPE.
* SEE DETAIL.
++ MATCH EXISTING PIPE INVERT.

UTILITY TEST HOLES

NO.	UTILITY	STATION	OFFSET	GR. EL.	COVER	O.D. & MATERIAL
TH 20	AW	75+86	43.3' RT.	262.57	4.45	1" COPPER
TH 21	CPD-G	75+95	43.3' RT.	262.73	2.75	1" STEEL
TH 22	AW	76+48	50.8' RT.	261.12	6.90	12" CIP
TH 24	CPD-G	71+25	33.5' LT.	263.55	3.70	2" STEEL
TH 25	AW	71+32	33.5' LT.	263.34	3.54	1" IRON
TH 26	CPD-G	78+59	15.6' LT.	265.14	3.20	12" STEEL
TH 40	AW	72+22	46.2' RT.	258.63	1.89	12" CIP
TH 41	VER	73+07	32.8' RT.	262.60	4.34	24" STEEL
TH 42	CPD-G	73+76	44.8' LT.	263.32	5.39	12" STEEL
TH 43	CPD-G	76+74	15.5' LT.	263.65	2.88	12" STEEL
TH 44	CPD-G	77+01	14.9' LT.	263.68	2.86	12" STEEL
TH 45	AW	78+59	40.6' RT.	265.03	3.49	12" DIP

PIPE SCHEDULE

NO.	SIZE / TYPE	LENGTH	SLOPE	INT. INV.	DIS. INV.
22	15" RCP	47.2	0.01	259.27	258.80
23	24"X38" RCEP	23.5	0.01	258.24	258.00
25	15" RCP	129.0	0.003	258.13	257.75
26	15" RCP	47.2	0.005	258.18	257.94
27	14"X23" RCEP	71.5	0.003	261.49	261.28
28	15" RCP	8.9	0.005	257.04	257.00
29	15" RCP	46.5	0.003	257.74	257.60
30	18" RCP	136.4	0.0116	263.28	261.69
33	14"X23" RCEP	71.5	0.003	261.49	261.28
50	36" RCP	15.3	0.0163	255.50	255.25
51	36" RCP	17.9	0.014	255.50	255.25
52	36" RCP	6.0	0.0107	MATCH EX.	255.61
53	36" RCP	6.0	0.0120	MATCH EX.	255.61
54	36" RCP	33.7	0.01	257.00	256.66
+55	36" RCP	27.1	0.0159	257.00	256.57
67	21" RCP	41	0.0073	261.18	261.15
73	15" RCP	125.3	0.004	257.65	257.14

+ DESIGN IS BASED UPON THE REMOVAL OF ONE EXISTING PIPE SECTION. HOWEVER, REMOVAL OF NEW PIPE SHALL EXTEND TO NEAREST PIPE SECTION/JOINT THAT IS IN SATISFACTORY CONDITION, AS DETERMINED BY THE ENGINEER. PROPOSED PIPE SLOPE AND DISCHARGE INVERT ARE APPROXIMATE AND SHOULD MATCH EXISTING PIPE.

CURB SCHEDULE

NO.	TYPE	LENGTH
41	INTEGRAL PCC CURB AND GUTTER, TYPE I	250'
42	INTEGRAL PCC CURB AND GUTTER, TYPE I	28'
43	INTEGRAL PCC CURB AND GUTTER, TYPE I	113'
44	PCC CURB, TYPE 2	40'
45	INTEGRAL PCC CURB AND GUTTER, TYPE I	225'
46	INTEGRAL PCC CURB AND GUTTER, TYPE I	196'
47	INTEGRAL PCC CURB AND GUTTER, TYPE I	122'
48	INTEGRAL PCC CURB AND GUTTER, TYPE I	22'
49	INTEGRAL PCC CURB AND GUTTER, TYPE I	64'
50	INTEGRAL PCC CURB AND GUTTER, TYPE I	90'
51	INTEGRAL PCC CURB AND GUTTER, TYPE I	85'
52	INTEGRAL PCC CURB AND GUTTER, TYPE I	53'
53	INTEGRAL PCC CURB AND GUTTER, TYPE I	66'
54	INTEGRAL PCC CURB AND GUTTER, TYPE I	47'
55	INTEGRAL PCC CURB AND GUTTER, TYPE I	384'
56	PCC CURB, SPECIAL	106'

UNDERDRAIN SCHEDULE

NO.	STA. TO STA.	LENGTH	SIZE/TYPE	DISCHARGE TYPE	DISCHARGE INV.
26	70+50 TO 72+21 RT	171 LF	6" PEP	DI - 20	*
27	72+25 TO 72+72 RT	47 LF	6" PEP	DI - 22	*
28	72+78 TO 73+02 RT	24 LF	6" PEP	DI - 52	*
29	73+38 TO 73+85 RT	47 LF	6" PEP	DI - 24	*
30	76+22 TO 76+47 RT	125 LF	6" PEP	DI - 24	*
31	76+52 TO 78+56 RT	204 LF	6" PEP	DI - 26	*
32	78+61 TO 79+50 RT	89 LF	6" PEP	DI - 48	*
33	70+50 TO 71+09 LT	59 LF	6" PEP	DI - 19	*
34	71+13 TO 72+68 LT	155 LF	6" PEP	DI - 21	*
35	72+73 TO 73+83 LT	110 LF	6" PEP	DI - 23	*
36	74+50 TO 75+98 LT	148 LF	6" PEP	DI - 25	*
37	76+02 TO 76+48 LT	46 LF	6" PEP	DI - 25	*
38	76+52 TO 78+56 LT	204 LF	6" PEP	DI - 27	*
39	78+61 TO 79+50 LT	89 LF	6" PEP	DI - 28	*
68	73+91 TO 75+20 RT	23 LF	6" PEP	DI - 24	*

* TO BE SET IN FIELD. REFER TO UNDERDRAIN DETAIL.

FENCE SCHEDULE

NO.	QTY.	UNIT	DESCRIPTION	NOTES
1	75	LF	RELOCATE CHAIN LINK FENCE	BEGIN STA. 78+75, END STA. 79+50, LT.
2	10	LF	RELOCATE FENCE	STA. 75+40, LT.

NOTE: RELOCATED FENCE SHALL BE PLACED 1' INSIDE PERMANENT EASEMENT.

ROADWAY CORE SUMMARY

C NO.	STA.	OFFSET	DESCRIPTION
5	76+59	24.0' RT.	3½" ASPHALT OVER 8¼" CONCRETE
12	71+00	22.0' LT.	6½" ASPHALT

RIPRAP SCHEDULE

NO.	TYPE	AREA
4	R-5	9 SY
5	R-6	48 SY
8	R-6	17 SY

MANHOLE SCHEDULE

NO.	TYPE	TOP EL.	INV. EL.	STATION	OFFSET
18++	66" X 48"	xx	261.05	78+59.4	20.1', RT.

++ SEE DIVERTER BOX DETAIL IN CONSTRUCTION DETAILS.
** TO BE SET IN FIELD BY ENGINEER.

CONSTRUCTION

SCALE
0 30 60 90
FEET

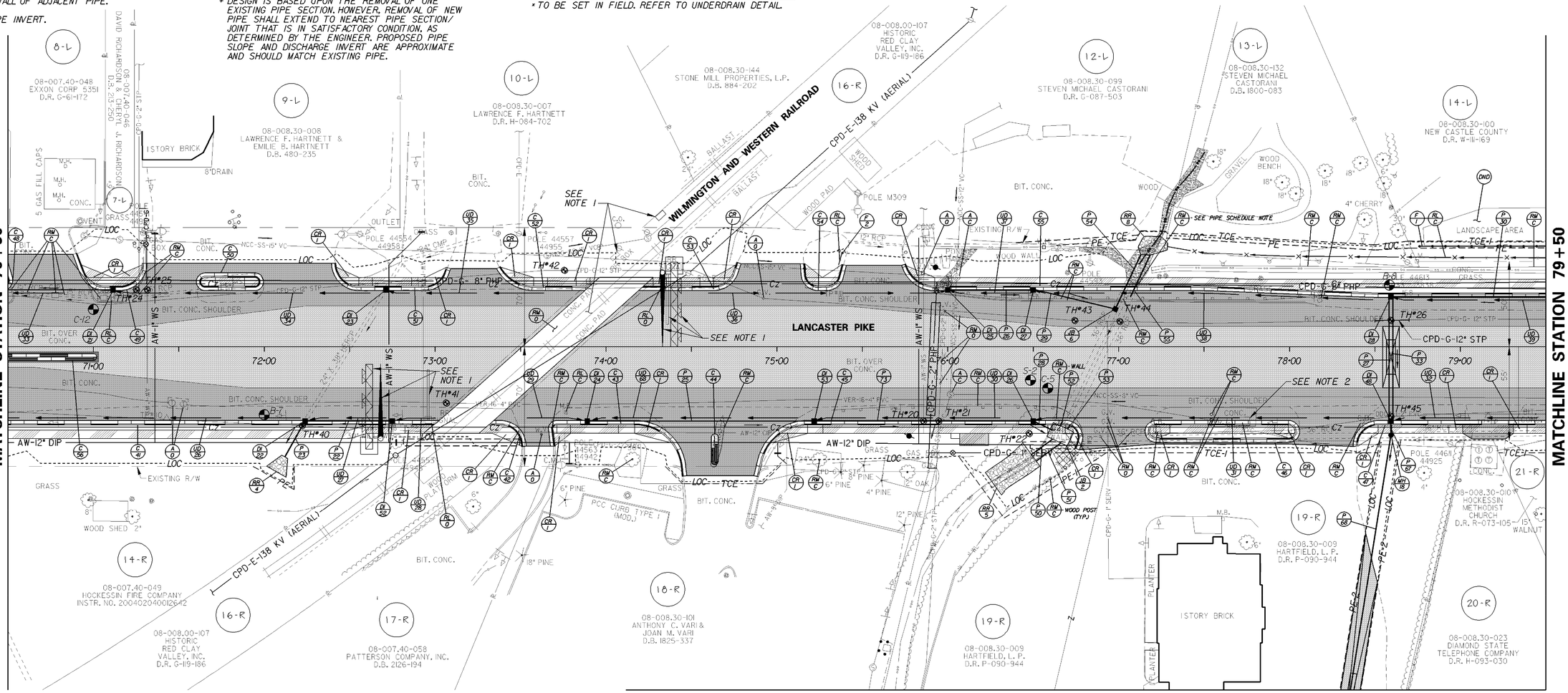
N

CONTRACT	COUNTY	F.A.P. NO.	SHEET NO.	TOTAL SHTS.
20-007-02	NEW CASTLE	SEE TITLE SHEET	24	151

SR 41 (LANCASTER PIKE) SAFETY PROJECT

REVISIONS

NOTES:
1. EXISTING RAILROAD CROSSING AND WARNING SIGNALS TO BE REMOVED AND NEW SIGNALS AND CROSSING TO BE INSTALLED BY OTHERS. REFER TO UTILITY STATEMENT FOR DETAILED DESCRIPTION OF WORK. NEW SIDEWALK AND CURB SHALL BE TAPERED DOWN AT A 12:1 RATIO TO MATCH THE EDGE OF THE CONCRETE PAD AT CROSSING.
2. CONTRACTOR SHALL REMOVE EXISTING RIDE SHELTER FROM CONCRETE PAD AND DELIVER TO DTC'S WILMINGTON YARD. PAYMENT INCIDENTAL TO 211000 - REMOVAL OF STRUCTURE AND OBSTRUCTIONS.



PREL. TRACING ____ J.A.D. ____ DESIGN ____ C.L.G./D.E.G. ____ CHKD. ____ M.M.P.

8/24/2004

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