

INTAKES AND MANHOLES										STORM SEWER PIPES										FORMULAS												
1	2	3	4	5	6	7	8	9	10	11	PIPE ENDS		14	15	16	17	PIPE FLOWLINES		21	22	23	24	TOTAL AREA		27	28	29	30	31	32	33	
STRUCTURE NO.	STATION	OFFSET	TYPE	CL ELEV.	FORM. GRADE ELEV.	LOWEST FL ELEV.	BOTTOM WELL	DEPTH	NOTE	PIPE NO.	12 FROM	13 TO	PIPE CLASS	PIPE DIA. IN.	PIPE LENGTH FT	PIPE SLOPE %	18 IN	19 OUT	20 DITCH OR APRON	NOTE	DRAINAGE AREA ACRES	COEFF. IMPERV. C	EQUIV. 100% ACRES	25 BRANCH ACRES	26 MAIN ACRES	TIME OF CONC. Tc	RAIN INTENS. IN/HR	10-YR FLOW CFS	VELOC. FULL FT/S	PIPE CAPACITY CFS	MEETS DESIGN?	TIME IN PIPE MIN
I-1	04+83.6	15.5	Catch Basin No. 101-B	522.93	522.62	519.10	518.60	4.02		P-1	I-1	I-2	2000D	15	25	0.60	519.10	518.95			1.44	0.50	0.72	0.00	0.72	23.00	4.06	2.92	4.42	5.42	OK	0.09
I-2	04+80.8	15.5	Catch Basin No. 101-B	522.83	522.52	518.95	518.45	4.07		P-2	I-2	MH-1	2000D	15	14	0.70	518.95	518.85			0.34	0.50	0.17	0.72	0.89	23.09	4.05	3.60	4.77	5.86	OK	0.05
MH-1	04+65.8	20.7	48" Manhole	522.30		518.85	518.35	4.11	Rim=522.46	P-MH1	MH-1	MH-2	Plastic	15	321	4.80	518.85	503.44			0.00	0.50	0.00	0.89	0.89	23.14	4.05	3.60	12.49	15.33	OK	0.43
I-3	43+44.9	15.5	Catch Basin No. 104-B	520.25	519.94	516.42	515.92	4.02		P-3	I-3	I-4	2000D	15	25	0.60	516.42	516.27			1.55	0.50	0.78	0.00	0.78	13.80	5.07	3.93	4.42	5.42	OK	0.09
I-4	43+45.1	15.5	Catch Basin No. 104-B	520.26	519.95	516.27	515.77	4.18		P-4	I-4	MH-2	Plastic	15	145	8.85	516.27	503.44			0.71	0.50	0.36	0.78	1.13	13.89	5.05	5.71	16.96	20.81	OK	0.14
MH-2	43+45.8	161.9	48" Manhole	520.27	...	503.44	502.94	4.06	Rim=507.00	P-MH2	MH-2	I-9	Plastic	15	329	2.30	503.44	495.88			0.00	0.50	0.00	2.02	2.02	23.57	4.01	8.10	8.66	10.61	OK	0.63
I-9	23+80.7	15.5	Catch Basin No. 101-B	499.72	499.41	495.68	495.18	4.23		P-9	I-9	I-10	2000D	18	25	2.00	495.68	495.18			0.61	0.50	0.31	2.02	2.33	24.21	3.96	9.21	9.11	16.09	OK	0.05
I-10	23+77.9	15.5	Catch Basin No. 101-B	499.44	499.13																											
I-5	40+44.9	15.5	Catch Basin No. 104-B	513.57	513.26	509.74	509.24	4.02		P-5	I-5	I-6	2000D	15	25	0.60	509.74	509.59		Hickory	1.17	0.50	0.59	0.00	0.59	13.90	5.05	2.95	4.42	5.42	OK	0.09
I-6	40+44.5	15.5	Catch Basin No. 104-B	513.57	513.26	509.59	509.09	4.17		P-6	I-6	I-7	2000D	15	41	8.00	509.59	506.31		Hickory	0.66	0.50	0.33	0.59	0.92	13.99	5.05	4.62	16.13	19.79	OK	0.04
I-7	25+86.3	15.5	Catch Basin No. 101-B	510.31	510.00	506.31	505.81	4.19		P-7	I-7	I-8	2000D	15	26	1.20	506.31	506.00		Anna St	1.13	0.50	0.57	0.92	1.48	14.04	5.00	7.40	6.25	7.67	OK	0.07
I-8	25+83.3	15.5	Catch Basin No. 101-B	510.01	509.70	506.00	505.50	4.20		P-8	I-8	I-10	2000D	15	113	9.40	506.00	495.38			0.47	0.50	0.24	1.48	1.72	14.11	4.98	8.54	17.48	21.46	OK	0.11
I-10	23+77.9	15.5	Catch Basin No. 101-B	499.44	499.13	495.18	494.68	4.45		P-10	I-10	Apron	Plastic	18	184	3.60	495.18	488.55	488.00	IDOT Ditch	0.26	0.50	0.13	4.04	4.17	24.25	4.89	20.39	12.22	21.59	OK	0.25
I-11	43+46.6	237.6	Gate	..					Rim=499	P-11	I-11	Hex	Plastic	15	86																	
Hex			Catch Basin No. 101-B	499.30	499.00																											

SUBDRAIN SERVICES (6")					
ITEM #	STREET	STATION	SIDE	LENGTH	
1	ARTHUR ST	04+86.6	Lt	24	
2		05+78.8	Lt	24	
3		06+91.8	Lt	24	
	HICKORY ST				
4		45+63.0	Lt	24	
5		45+63.0	RT	24	
6		44+59.0	Lt	24	
7		44+59.0	RT	24	
8		43+55.0	Lt	24	
9		43+55.0	RT	24	
10		42+51.0	Lt	24	
11		42+51.0	RT	24	
12		41+47.0	Lt	24	
13		41+47.0	RT	24	
14		40+49.0	Lt	24	
15		40+40.0	Rt	24	
	ANNA ST				
16		23+83.0	Rt	24	
17		25+54.0	RT	24	
				408	

Item No.	Item	Unit	Quantity
1	Mobilization	LS	1
2	Trench Compaction Testing	LS	1
3	Subgrade and Subbase Compaction Testing	LS	1
4	Traffic Control	LS	1
5	Permanent Signs	EA	8
6	Sign Posts	EA	8
7	Temporary Erosion and Sediment Controls (Including Silt Fence)	LS	1
8	Remove Fence (950 lf)	LS	1
9	Rock Excavation	CY	200
10	Unclassified Excavation and Embankment	CY	20,000
11	Strip and Respread Topsoil	CY	5,250
12	Subgrade Preparation	SY	5,272
13	Subbase	SY	5,077
14	Storm Sewer Main, 15-inch Dia. RCP	LF	269
15	Storm Sewer Main, 15-inch Dia. Plastic	LF	881
16	Storm Sewer Main, 18-inch Dia. RCP	LF	25
17	Storm Sewer Main, 18-inch Dia. Plastic	LF	184
18	Bee-Hive Intake	EA	1
19	Subdrain, 6" (wrapped with fabric), and 17 Service T's	LF	2,650
20	Subdrain Cleanouts	EA	8
21	Storm Sewer Manholes	EA	2
22	Storm Sewer Intakes (101-B)	EA	7
23	Storm Sewer Intakes (104-B)	EA	4
24	Water Main, C900 6"	LF	1,359
25	Valve and Box (6" Gate)	EA	5
26	45 Deg Bend	EA	4
27	Water Services (1" Trenched) (Total 17 Services, 660 lf)	Ea	17
28	Fire Hydrant Assembly	EA	3
29	Fire Hydrant to be Relocated	EA	2
30	Disinfection and Hydrostatic Testing	LS	1
31	Sanitary Sewer Manholes	EA	3
32	Sanitary Sewer Manholes to be Relocated	EA	1
33	Sanitary Sewer Main 8" Truss	LF	1,047
34	Sanitary Sewer Services (4" Trenched) (Total 17 Services, 580 LF)	EA	17
35	Portland Cement Concrete Pavement, Non-Reinforced (7")	SY	4,615
36	Seeding	LS	1

PROJECT NO: HX0789

DRAWN BY: BGA
APPROVED BY: GMH
DATE: 10/10/2012

NO.

REVISION

DESCRIPTION

APPROVED

DATE

ALLTRANS, INC.
4403 1st Avenue S.E.
Cedar Rapids, Iowa 52402
Phone: (319) 393-8726

City of Holy Cross Subdivision No.2
Dubuque County, Iowa

Storm Sewer Tabulations

SHEET NO.
C.02
or
C.06