PIPE/ CULVERT NO.	DESCRIPTION	DIA. (IN)	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CU YDS.)	SHEET NO.	FROM ST. 1	TO ST. 2
2607	STORM SEW CL A 2 12	DIA 12"	2	2.36	0.2	101	2610	2609
2608	STORM SEW CL A 1 18	DIA 18"	70	1.36	9.1	101	2611	2608
2609	STORM SEW CL A 2 18	DIA 18"	120	1.67	27.0	101	2609	2613
2610	STORM SEW CL A 2 18	DIA 18"	220	0.59	47.2	102	2613	2614
2611	STORM SEW CL A 1 18	DIA 18"	7	1.35	0.0	102	2614	2615
2612	STORM SEW CL A 1 12	DIA 12"	116	0.60	4.0	102	2616	2700
2613	STORM SEW CL A 1 18	DIA 18"	27	2.82	0.0	105	2617	2612
2700	STORM SEW CL A 1 12	DIA 12"	8	1.22	0.4	102	2700	2703
2701	STORM SEW CL A 2 18	DIA 18"	6	1.45	0.9	102	2701	2702
2702	STORM SEW CL A 2 18	DIA 18"	10	1.94	1.8	102	2703	2704
2703	STORM SEW CL A 1 12	DIA 12"	15	2.00	0.6	102	2706	2703
2704	STORM SEW CL A 1 24	DIA 24"	4	1.13	0.5	102	2705	2707
2705	STORM SEW CL A 2 18	DIA 18"	34	0.53	6.0	102	2702	2703
2706	STORM SEW CL A 1 24	DIA 24"	4	1.13	0.4	102	2705	2709
2707	STORM SEW CL A 2 12	DIA 12"	10	1.94	0.0	102	2711	2712
2708	STORM SEW CL A 1 12	DIA 12"	52	0.97	1.1	102	2713	2711
2709	P CUL CL D 1 12	DIA 12"	21	0.47	0.0	102	2715	2714
2710	STORM SEW CL A 2 12	DIA 12"	15	6.67	2.7	102	2716	2717
2711	STORM SEW CL A 2 12	DIA 12"	24	9.12	6.6	102	2718	2719
2712	STORM SEW CL A 1 12	DIA 12"	5	1.00	0.2	102	2720	2721
2713	P CUL CL D 1 12	DIA 12"	35	2.00	1.9	102	2723	2722
2714	STORM SEW CL A 1 12	DIA 12"	4	1.35	0.1	102	2725	2724
2800	STORM SEW CL A 1 12	DIA 12"	35	1.14	3.4	103	2800	2801
2801	STORM SEW CL A 2 12	DIA 12"	5	10.00	1.2	103	2801	2802
2802	STORM SEW CL A 2 12	DIA 12"	131	1.52	46.9	103	2802	2803
2803	STORM SEW CL A 2 12	DIA 12"	126	1.58	49.7	103	2803	2806
2804	STORM SEW CL A 2 15	DIA 15"	34	0.88	6.5	103	2804	2805
2805	STORM SEW CL A 2 15	DIA 15"	7	10.00	1.7	103	2805	2806
2806	STORM SEW CL A 2 15	DIA 15"	231	0.87	105.5	103	2806	2809
2807	STORM SEW CL A 1 12	DIA 12"	35	1.14	4.3	103	2807	2808
2808	STORM SEW CL A 2 12	DIA 12"	7	10.00	1.7	103	2808	2809
2809	STORM SEW CL A 2 15	DIA 15"	211	0.95	86.6	103	2809	2902
2810	STORM SEW CL A 1 15	DIA 15"	6	12.05	0.7	103	2810	2804
2900	STORM SEW CL A 1 12	DIA 12"	35	1.14	3.1	103	2900	2901
2901	STORM SEW CL A 2 12	DIA 12"	6	10.00	1.8	103	2901	2902
2902	STORM SEW CL A 2 18	DIA 18"	171	1.17	134.3	103	2902	2905
2903	STORM SEW CL A 1 12	DIA 12"	35	1.14	2.3	103	2903	2904
2904	STORM SEW CL A 2 12	DIA 12"	8	10.00	1.9	103	2904	2905
2905	STORM SEW CL A 2 18	DIA 18"	231	0.87	100.3	103	2905	2909
2906	STORM SEW CL A 1 12	DIA 12"	35	0.57	2.6	103	2907	2908
2907	STORM SEW CL A 2 12	DIA 12"	11	9.54	2.1	103	2908	2909
2908	STORM SEW CL A 2 18	DIA 18"	201	0.50	37.6	103	2909	2915
2911	STORM SEW CL A 1 18	DIA 18"	106	0.47	11.8	104	2915	2920
2913	STORM SEW CL A 2 18	DIA 18"	9	2.17	2.2	104	2924	2921
2914	STORM SEW CL A 2 18	DIA 18"	166	0.48	44.4	104	2920	2924
2915	STORM SEW CL A 1 24	DIA 24"	5	1.08	0.5	104	2922	2923
2916	STORM SEW CL A 1 24	DIA 24"	5	1.08	0.4	104	2922	2926
2917	STORM SEW CL A 2 12	DIA 12"	35	1.14	9.4	104	2910	2906
2918	STORM SEW CL A 2 12	DIA 12"	12	0.83	2.7	104	2906	2915
2919	STORM SEW CL A 1 18	DIA 18"	35	0.57	4.0	104	2911	2916
2920	STORM SEW CL A 2 12	DIA 12"	12	0.82	2.1	104	2916	2920
3000	P CUL CL A 1 24	DIA 24"	54	0.92	5.1	104	3000	3001
3001	P CUL CL A 1 18	DIA 18"	53	1.78	3.9	104	3002	3003
4000	STORM SEW CL A 1 12	DIA 12"	17	0.58	1.8	094	4000	4002
4001	STORM SEW CL A 1 12	DIA 12"	17	0.58	1.5	094	4001	4003
4002	STORM SEW CL A 1 12	DIA 12"	43	0.40	5.1	094	4003	4002
4003	STORM SEW CL A 2 15	DIA 15"	115	0.43	30.9	094	4002	4006
4004	STORM SEW CL A 2 18	DIA 18"	22	5.39	22.9	094	4005	4018
4005	STORM SEW CL A 2 15	DIA 15"	7	1.38	3.4	094	4006	4005
4006	STORM SEW CL A 2 12	DIA 12"	50	2.01	9.4	094	4007	4006
4007	STORM SEW CL A 2 30	DIA 30"	137	0.26	194.0	094	4009	4005
4008	STORM SEW CL A 2 12	DIA 12"	4	2.22	1.8	094	4008	4009
4009	STORM SEW CL A 2 12	DIA 12"	62	1.63	14.1	094	4010	4009
4010	STORM SEW CL A 2 12	DIA 12"	145	0.52	146.5	094	4012	4009
4011	STORM SEW CL A 2 12	DIA 12"	6	1.63	6.0	094	4011	4012
4012	STORM SEW CL A 2 12	DIA 12"	62	0.81	10.7	094	4013	4012
4013	STORM SEW CL A 3 24	DIA 24"	109	0.28	201.8	096	415	5001
4014	STORM SEW CL A 2 18	DIA 18"	43	0.46	59.9	094	4018	4004
4015	STORM SEW CL A 2 18	DIA 18"	2	3.36	0.1	094	4004	ES
5000	STORM SEW CL A 2 12	DIA 12"	86	0.58	19.4	094	5000	5033
5001	STORM SEW CL A 2 24	DIA 24"	199	0.55	193.6	094	5001	5003
5002	STORM SEW CL A 3 12	DIA 12"	59	0.34	102.8	094	5002	5003
5003	STORM SEW CL A 3 24	DIA 24"	35	0.03	73.5	094	5004	5001
5004	STORM SEW CL A 2 36	DIA 36"	185	0.49	274.1	094	5003	5007
5005	STORM SEW CL A 2 24	DIA 24"	5	1.03	6.7	095	5008	5017
5006	STORM SEW CL A 2 36	DIA 36"	54	0.56	46.6	095	5007	5012
5007	STORM SEW CL A 2 12	DIA 12"	17	1.21	3.7	094	5006	5004

PIPE/ CULVERT NO.	DESCRIPTION	DIA. (IN)	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CU YDS.)	SHEET NO.	FROM ST. 1	TO ST. 2
5008	STORM SEW CL A 2 12	DIA 12"	50	0.50	6.1	095	5009	5007
5009	STORM SEW CL A 1 12	DIA 12"	10	0.97	0.4	095	5018	5026
5010	STORM SEW CL A 2 12	DIA 12"	76	0.46	23.8	095	5010	5034
5011	STORM SEW CL A 2 36	DIA 36"	55	0.90	49.2	095	5012	5014
5012	STORM SEW CL A 2 12	DIA 12"	9	0.54	0.4	095	5011	5010
5013	STORM SEW CL A 2 42	DIA 42"	60	0.25	111.7	095	5016	5013
5014	STORM SEW CL A 2 36	DIA 36"	16	0.92	15.2	095	5014	5017
5015	STORM SEW CL A 1 12	DIA 12"	11	1.34	1.3	095	5015	5016
5016	STORM SEW CL A 2 30	DIA 30"	17	0.89	28.8	095	5019	5016
5017	STORM SEW CL A 2 36	DIA 36"	19	1.29	20.1	095	5017	5020
5018	STORM SEW CL A 3 12	DIA 12"	66	0.02	97.1	094	5005	5002
5019	STORM SEW CL A 2 12	DIA 12"	52	0.58	18.1	095	5022	5019
5020	STORM SEW CL A 2 36	DIA 36"	91	0.44	70.6	095	5021	5020
5021	STORM SEW CL A 2 36	DIA 36"	63	0.95	57.0	095	5025	5021
5022	STORM SEW CL A 2 12	DIA 12"	7	0.01	8.0	095	5023	5025
5023	STORM SEW CL A 1 12	DIA 12"	39	0.51	4.2	095	5024	5025
5024	STORM SEW CL A 2 24	DIA 24"	39	0.76	37.6	095	5027	5025
5025	STORM SEW CL A 2 12	DIA 12"	12	0.43	2.6	095	5026	5028
5026	STORM SEW CL A 1 15	DIA 15"	41	2.44	4.1	095	5028	5027
5027	STORM SEW CL A 2 12	DIA 12"	42	0.71	6.9	095	5029	5028
5028	STORM SEW CL A 1 12	DIA 12"	24	1.03	0.6	095	5030	5009
5029	STORM SEW CL A 2 12	DIA 12"	72	0.69	20.1	094	5033	5002
5030	STORM SEW CL A 2 12	DIA 12"	5	2.00	0.9	095	5032	5029
5031	STORM SEW CL A 2 12	DIA 12"	7	1.44	2.9	094	5034	5005
5032	STORM SEW CL A 1 12	DIA 12"	7	1.47	0.8	094	5036	5033
5033	STORM SEW CL A 2 12	DIA 12"	13	0.39	3.6	094	5035	5002
5034	STORM SEW CL A 2 12	DIA 12"	9	0.57	2.0	094	5037	5034
5035	STORM SEW CL A 2 12	DIA 12"	8	1.19	0.8	095	5038	5022
5036	STORM SEW CL A 1 12	DIA 12"	11	0.46	0.1	095	5039	5024
5037	STORM SEW CL A 1 12	DIA 12"	5	1.00	0.0	095	5040	5029
5038	STORM SEW CL A 2 42	DIA 42"	37	0.14	66.2	095	5020	5019
5051	STORM SEW CL A 2 24	DIA 24"	51	0.10	6.1	106	5052	5051
5052	STORM SEW CL A 2 24	DIA 24"	64	0.16	19.8	106	5053	5052
5053	STORM SEW CL A 2 24	DIA 24"	27	0.11	7.3	106	5054	5053
5054	STORM SEW CL A 2 24	DIA 24"	36	2.55	33.5	106	5055	5054
5055	STORM SEW CL A 2 24	DIA 24"	28	2.36	25.7	106	5056	5055
5056	STORM SEW CL A 2 24	DIA 24"	36	0.31	37.0	106	5057	5056
5057	STORM SEW CL A 2 24	DIA 24"	84	0.36	119.6	095	5013	5057

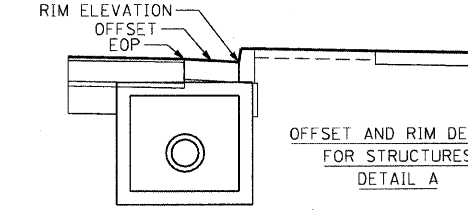
EP = CONNECT TO EXISTING PIPE
ES = CONNECT TO EXISTING STRUCTURE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	093
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

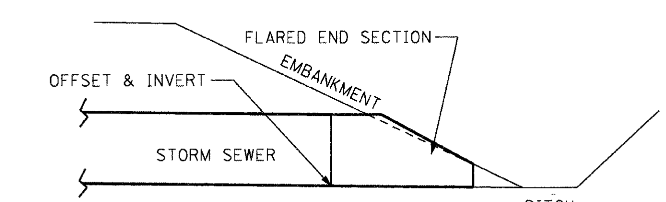
CONTRACT NO: 63522

NOTES:

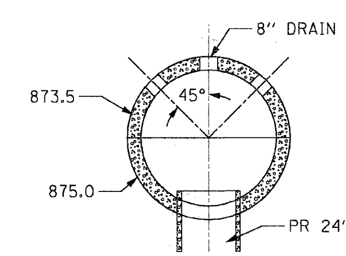
1. OFFSETS FOR DRAINAGE STRUCTURES ARE TO THE CENTER OF THE LID OR GRATE (SEE DETAIL A). EXCEPTIONS ARE DRAINAGE STRUCTURES WITH RESTRICTORS, DRYWELLS OR 9' MH.
2. RIM ELEVATIONS FOR DRAINAGE STRUCTURES IN GUTTERS ARE AT THE FACE OF CURB. (SEE DETAIL A)
3. OFFSETS FOR DRAINAGE STRUCTURES WITH RESTRICTORS (WITH TWO LIDS OR GRATES), DRYWELLS OR 9' MH ARE TO THE CENTER OF THE STRUCTURE.
4. OFFSETS AND INVERT ELEVATIONS FOR FLARED END SECTIONS ARE AT THE CONNECTION WITH THE STORM SEWER. (SEE DETAIL B)
5. ADD 2 FOOT SUMP TO ALL RESTRICTOR MANHOLES.
6. DRYWELL DETAILS ARE SHOWN ON THE CRYSTAL LAKE DRYWELL STANDARD DETAIL UD-03.
7. PIPE LENGTHS SHOWN IN THE SCHEDULE DO NOT REFLECT PIPE LENGTH DEDUCTIONS FOR LOCATIONS WHERE PIPES MEETING WATER MAIN REQUIREMENT ARE REQUIRED. SEE SCHEDULE OF QUANTITIES FOR WATER MAIN REQUIREMENT PIPE LOCATIONS.



OFFSET AND RIM DETAIL FOR STRUCTURES
DETAIL A

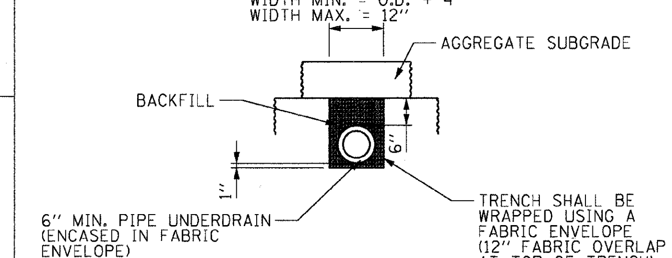


OFFSET AND INVERT FOR FLARED END SECTIONS
DETAIL B



OUTFALL STRUCTURE DETAIL

MH TA 5', BOTTOM ELEVATION 869.0
CONCRETE SHALL BE USED TO FILL STRUCTURE FROM 869.0 TO 872.5
SEE VET PARK DRAINAGE SHEET FOR ADDITIONAL DETAILS



TRANSVERSE PIPE UNDERDRAIN DETAIL

LEGEND

- (DS-XXXX) STRUCTURE NO.
- SS-XXXX PIPE NO.
- PIPE REMOVAL
- PROP RIP RAP
- EX INLET
- EX CATCH BASIN
- EX MANHOLE
- EX STORM SEWER
- EX SANITARY SEWER
- EX DITCH
- PROP INLET
- PROP CATCH BASIN
- PROP MANHOLE
- PROP STORM SEWER
- PROP PIPE UNDERDRAINS, 6"
- PROP DITCH
- PROP SWALE
- PROP FLARED END SECTION
- PROP LEFT DITCH PROF
- PROP RIGHT DITCH PROF
- DET BASIN HWL
- R REMOVE STRUCTURE
- A ADJUST STRUCTURE
- CONCRETE HEADWALL FOR PIPE DRAINS
- DRY WELL

EXISTING UTILITIES

- T TELEPHONE
- CTV CABLE TELEVISION
- W WATER
- G GAS
- E ELECTRIC

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

DRAINAGE SCHEDULE
SHEET 6 OF 6

SCALE: N.T.S. DRAWN BY: LK
DATE: 06/10/11 CHECKED BY: TL

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

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6-09-2011, 16:37:38 \\FS-0044\AM\VAULT,D-TRANS_07\2202\3100-03\CIVIL\CAD\02 CONTRACT\IA TENG\SHEET\DD02IA009.SHT STANKIRJ