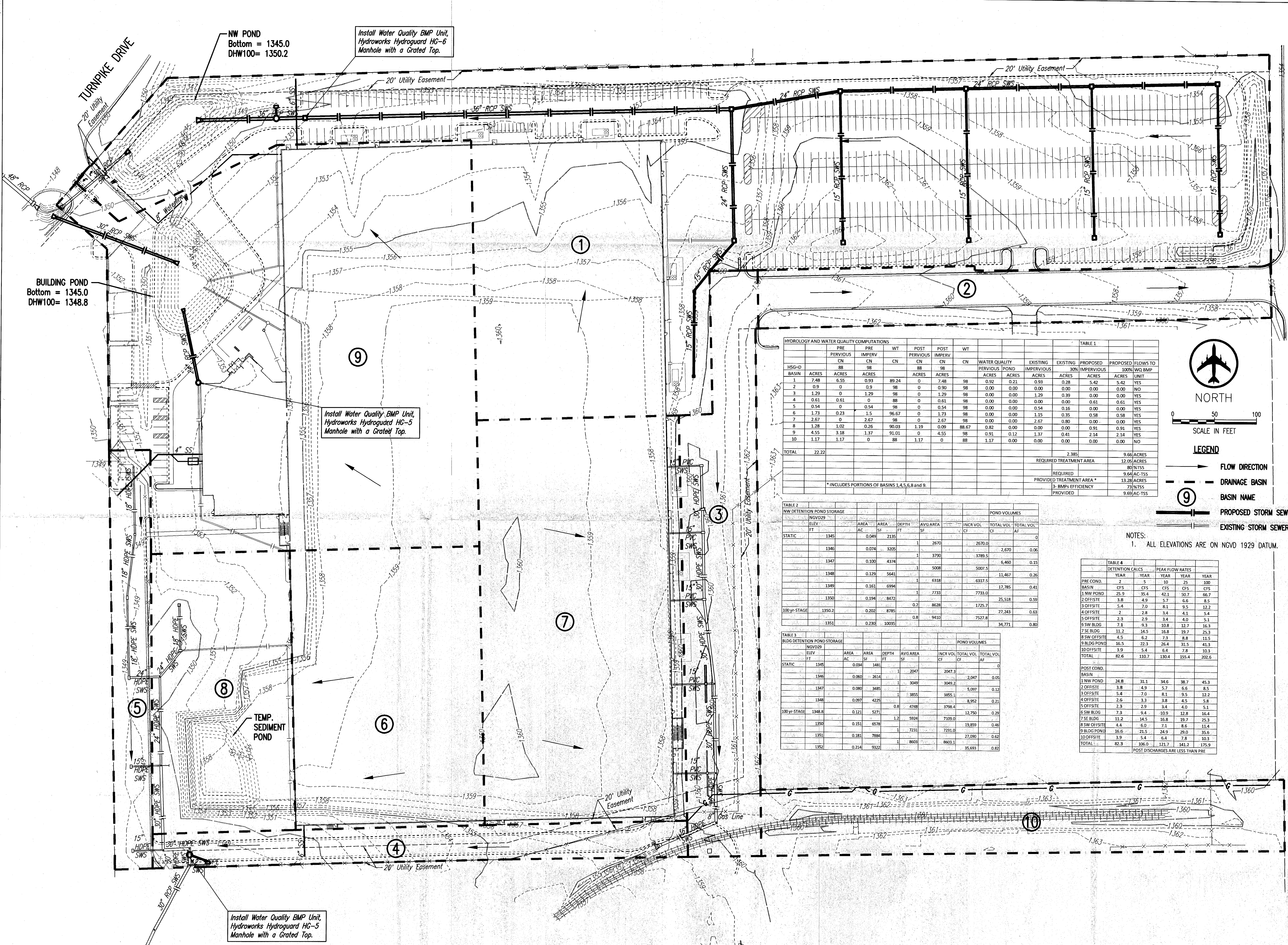


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HYDROLOGY AND WATER QUALITY COMPUTATIONS													TABLE 1							
HSG-D BASIN	PRE PERVIOUS		PRE IMPERV		WT	POST PERVIOUS		POST IMPERV		WT	WATER QUALITY PERVIOUS	POND ACRES	EXISTING IMPERVIOUS	EXISTING 30% ACRES	PROPOSED IMPERVIOUS	PROPOSED ACRES	FLOWS TO 100% UW BMP			
	ACRES	ACRES	ACRES	ACRES		ACRES	ACRES	ACRES	ACRES											
	ACRES	ACRES	ACRES	ACRES		ACRES	ACRES	ACRES	ACRES											
1	7.48	6.55	0.93	89.24	0	7.48	98	0.92	0.21	0.93	0.28	5.42	5.42	YES						
2	0.9	0	0.9	98	0	0.90	98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NO				
3	1.29	0	1.29	98	0	1.29	98	0.00	0.00	0.00	1.29	0.39	0.39	0.00	0.00	YES				
4	0.61	0.61	0	88	0	0.61	98	0.00	0.00	0.00	0.00	0.61	0.61	0.00	0.00	YES				
5	0.54	0	0.54	98	0	0.54	98	0.00	0.00	0.00	0.54	0.16	0.35	0.35	0.00	YES				
6	1.73	0.23	1.5	96.67	0	1.73	98	0.00	0.00	1.15	0.35	0.58	0.58	0.00	0.00	YES				
7	2.67	0	2.67	98	0	2.67	98	0.00	0.00	2.67	0.80	0.00	0.00	0.00	0.00	YES				
8	1.28	1.02	0.26	90.03	1.19	0.09	88.67	0.82	0.00	0.00	0.00	0.91	0.91	0.00	0.00	YES				
9	4.55	3.18	1.37	91.01	0	4.55	98	0.91	0.12	1.37	0.41	2.14	2.14	0.00	0.00	YES				
10	1.17	1.17	0	88	1.17	0	88	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NO				
TOTAL													2.385		9.66		ACRES			
													REQUIRED TREATMENT AREA		12.05		ACRES			
													REQUIRED		96%		TSS			
													PROVIDED TREATMENT AREA *		13.28		ACRES			
													3- BMPs EFFICIENCY		78		NTSS			
													GROUPED		6.9		ACRES			
* INCLUDES PORTIONS OF BASINS 1, 4, 5, 6, 8 AND 9.																				

TABLE 2 NEW DETENTION POND STORAGE					POND VOLUMES			
	ELEV FT	AREA AC	AREA SF	DEPTH FT	AVG AREA SF	INCR VOL CF	TOTAL VOL CF	TOTAL VOL AF
STATIC	1345	0.049	2135	1	2670	2670.0		0
	1346	0.074	3205	1	3790	3789.5	2,670	0.06
	1347	0.100	4374	1	5008	5007.5	6,460	0.15
	1348	0.129	5641	1	6318	6317.5	11,467	0.26
	1349	0.161	6994	1	7733	7733.0	17,785	0.41
	1350	0.194	8472	1	8628	8628.0	25,518	0.59
100 yr-STAGE	1350.2	0.202	8785	0.2	8628	1725.7	27,243	0.63
	1351	0.230	10035	0.8	9410	7527.8	34,771	0.80

BLDG DETENTION POND STORAGE					POND VOLUMES			
NSVD29		AREA AC	AREA SF	DEPTH FT	AVG AREA SF	POND VOLUMES		
ELEV	INCR VOL CF					TOTAL VOL CF	TOTAL VOL AF	
STATIC	1345	0.034	1481	1	2047	2047.3		0
	1346	0.060	2614	1	3049	3049.2	2,047	0.05
	1347	0.080	3485	1	3855	3855.1	5,097	0.12
	1348	0.097	4225	1	4748	4748.4	8,952	0.21
	100 yr-STAGE	1348.8	0.121	5271	1.2	5924	7109.0	12,750
	1350	0.151	6578	1	7231	7231.0	19,839	0.46
	1351	0.181	7884	1	8603	8603.1	27,090	0.62
	1352	0.214	9322	1			35,693	0.82

TABLE 4
DETENTION CALCULATIONS

PRE COND.	BASIN	YEAR			PEAK FLOW RATES		
		2	5	10	2	5	10
1 NW POND	25.9	35.4	42.1	50.7	66.7		
2 OFFSITE	3.8	4.9	5.7	6.6	8.5		
3 OFFSITE	5.4	7.0	8.1	9.5	12.2		
4 OFFSITE	2	2.8	3.4	4.1	5.4		
5 OFFSITE	2.3	2.9	3.4	4.0	5.1		
6 SW BLDG	7.1	9.3	10.8	12.7	16.3		
7 SE BLDG	11.2	14.5	16.8	19.7	25.3		
8 SW OFFSITE	4.5	6.2	7.3	8.8	11.5		
9 BLDG POND	16.5	22.3	26.4	31.5	41.3		
10 OFFSITE	3.9	5.4	6.4	7.8	10.3		
TOTAL	82.6	110.7	130.4	155.4	202.6		

POST COND. BASIN

BASIN	YEAR			PEAK FLOW RATES		
	2	5	10	2	5	10
1 NW POND	24.8	31.1	34.6	38.7	45.3	
2 OFFSITE	3.8	4.9	5.7	6.6	8.5	
3 OFFSITE	5.4	7.0	8.1	9.5	12.2	
4 OFFSITE	2.6	3.3	3.8	4.5	5.8	
5 OFFSITE	2.3	2.9	3.4	4.0	5.1	
6 SW BLDG	7.3	9.4	10.9	12.8	16.4	
7 SE BLDG	11.2	14.5	16.8	19.7	25.3	
8 SW OFFSITE	4.4	6.0	7.1	8.6	11.4	
9 BLDG POND	16.6	21.5	24.9	29.0	35.6	
10 OFFSITE	3.9	5.4	6.4	7.8	10.3	
TOTAL	82.3	106.0	121.7	141.2	175.9	

POST DISCHARGES ARE LESS THAN PRE

OLIVER

NEW NORTH MANUFACTURING FACILITY

BLDG. NO. 1-312G

Facilities Engineering

Job Number: 939.901

Designed by: JEH

Drawn by: JAN

Date: 03/15/2013

WICHITA

PROJECT NO.

SHEET NAME: PROPOSED CONDITION PLAN

SHEET: C-6 of

DRAWING NO. 106L- FIG. 3

CONTRACT:

106L- FIG. 3

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DATE

REVIEW

DATE

FIRE PROTECTION

REVIEW

DATE

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