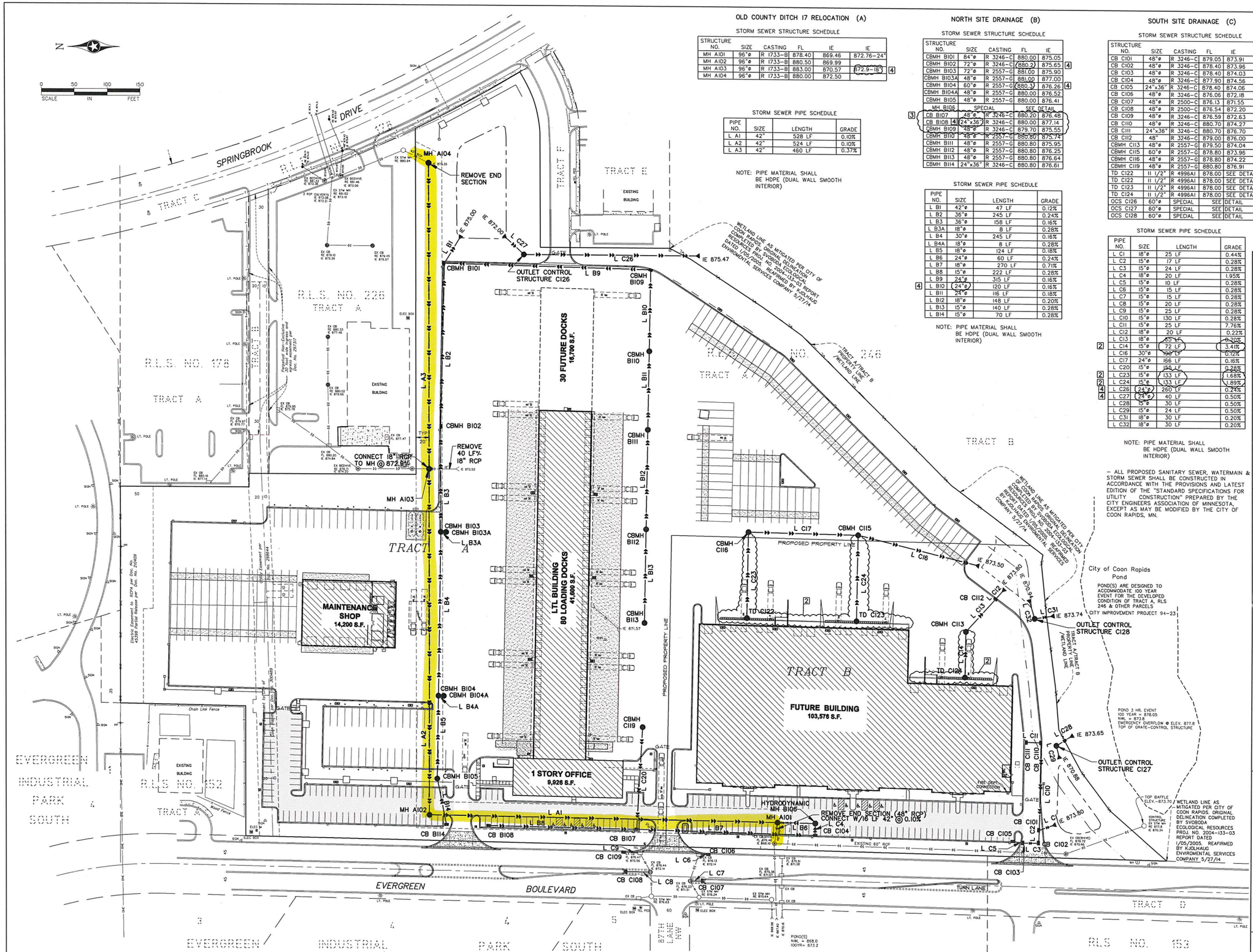

OLD COUNTY DITCH 17 RELOCATION (A)

STORM SEWER STRUCTURE SCHEDULE

STRUCTURE NO.	SIZE	CASTING	FL	IE	IE
MH A101	96"ø	R 1733-B	878.40	869.46	872.76-24"
MH A102	96"ø	R 1733-B	880.50	869.99	
MH A103	96"ø	R 1733-B	883.00	870.57	872.9-18" 4
MH A104	96"ø	R 1733-B	880.00	872.50	

STORM SEWER PIPE SCHEDULE

PIPE NO.	SIZE	LENGTH	GRADE
L A1	42"	528 LF	0.10%
L A2	42"	524 LF	0.10%
L A3	42"	460 LF	0.37%

NOTE: PIPE MATERIAL SHALL BE HDPE (DUAL WALL SMOOTH INTERIOR)

NORTH SITE DRAINAGE (B)

STORM SEWER STRUCTURE SCHEDULE

STRUCTURE NO.	SIZE	CASTING	FL	IE	
CBMH B101	84"ø	R 3246-C	880.00	875.05	
CBMH B102	72"ø	R 3246-C	(880.2)	875.65	4
CBMH B103	72"ø	R 2557-G	881.00	875.90	
CBMH B103A	48"ø	R 2557-G	881.00	877.00	
CBMH B104	60"ø	R 2557-G	(880.3)	876.26	4
CBMH B104A	48"ø	R 2557-G	880.00	876.52	
CBMH B105	48"ø	R 2557-G	880.00	876.41	
MH B106	SPECIAL		SEE DETAIL		
CB B107	48"ø	R 3246-C	880.20	876.48	3
CB B108 4	24"x36"	R 3246-C	880.00	877.14	
CBMH B109	48"ø	R 3246-C	879.70	875.55	
CBMH B110	48"ø	R 2557-G	880.60	875.74	
CBMH B111	48"ø	R 2557-G	880.80	875.95	
CBMH B112	48"ø	R 2557-G	880.80	876.25	
CBMH B113	48"ø	R 2557-G	880.80	876.64	
CBMH B114	24"x36"	R 3246-C	880.80	876.61	

STORM SEWER PIPE SCHEDULE

PIPE NO.	SIZE	LENGTH	GRADE
L B1	42"ø	47 LF	0.12%
L B2	36"ø	245 LF	0.24%
L B3	36"ø	158 LF	0.16%
L B3A	18"ø	8 LF	0.28%
L B4	30"ø	245 LF	0.16%
L B4A	18"ø	8 LF	0.28%
L B5	18"ø	124 LF	0.18%
L B6	24"ø	60 LF	0.24%
L B7	18"ø	270 LF	0.71%
L B8	15"ø	222 LF	0.28%
L B9	24"ø	315 LF	0.16%
4 L B10	(24"ø)	120 LF	0.16%
L B11	24"ø	116 LF	0.18%
L B12	18"ø	148 LF	0.20%
L B13	15"ø	140 LF	0.28%
L B14	15"ø	70 LF	0.28%

NOTE: PIPE MATERIAL SHALL BE HDPE (DUAL WALL SMOOTH INTERIOR)

SOUTH SITE DRAINAGE (C)

STORM SEWER STRUCTURE SCHEDULE

STRUCTURE NO.	SIZE	CASTING	FL	IE	IE
CB C101	48"ø	R 3246-C	879.05	873.91	
CB C102	48"ø	R 3246-C	878.40	873.96	
CB C103	48"ø	R 3246-C	878.40	874.03	
CB C104	48"ø	R 3246-C	877.90	874.56	
CB C105	24"x36"	R 3246-C	878.40	874.08	
CB C106	48"ø	R 3246-C	876.06	872.18	
CB C107	48"ø	R 2500-C	876.13	871.55	
CB C108	48"ø	R 2500-C	876.54	872.20	
CB C109	48"ø	R 3246-C	876.59	872.63	
CB C110	48"ø	R 3246-C	880.70	874.27	
CB C111	24"x36"	R 3246-C	880.70	876.70	
CB C112	48"	R 3246-C	879.00	876.00	
CBMH C113	48"ø	R 2557-G	879.50	874.04	
CBMH C115	60"ø	R 2557-G	878.80	873.96	
CBMH C116	48"ø	R 2557-G	878.80	874.22	
CBMH C119	48"ø	R 2557-G	880.80	876.91	
TD C122	11 1/2"	R 4996A1	878.00	SEE DETAIL	
TD C122	11 1/2"	R 4996A1	878.00	SEE DETAIL	
TD C123	11 1/2"	R 4996A1	878.00	SEE DETAIL	
TD C124	11 1/2"	R 4996A1	878.00	SEE DETAIL	
OCS C126	60"ø	SPECIAL	SEE DETAIL		
OCS C127	60"ø	SPECIAL	SEE DETAIL		
OCS C128	60"ø	SPECIAL	SEE DETAIL		

STORM SEWER PIPE SCHEDULE

PIPE NO.	SIZE	LENGTH	GRADE
L C1	18"ø	25 LF	0.44%
L C2	15"ø	17 LF	0.28%
L C3	15"ø	24 LF	0.28%
L C4	18"ø	20 LF	1.95%
L C5	15"ø	10 LF	0.28%
L C6	15"ø	15 LF	0.28%
L C7	15"ø	15 LF	0.28%
L C8	15"ø	20 LF	0.28%
L C9	15"ø	25 LF	0.28%
L C10	15"ø	130 LF	0.28%
L C11	15"ø	25 LF	7.76%
L C12	18"ø	20 LF	0.22%
L C13	18"ø	65 LF	0.20%
2 L C14	15"ø	72 LF	3.41%
L C16	30"ø	190 LF	0.12%
L C17	24"ø	166 LF	0.16%
L C20	15"ø	158 LF	0.28%
2 L C23	15"ø	133 LF	1.68%
4 L C24	15"ø	133 LF	1.89%
4 L C26	(24"ø)	260 LF	0.24%
L C27	(24"ø)	40 LF	0.50%
L C28	15"ø	30 LF	0.50%
L C29	15"ø	24 LF	0.50%
L C31	18"ø	30 LF	0.20%
L C32	18"ø	30 LF	0.20%

NOTE: PIPE MATERIAL SHALL BE HDPE (DUAL WALL SMOOTH INTERIOR)

– ALL PROPOSED SANITARY SEWER, WATERMAIN & STORM SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS AND LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR CONSTRUCTION" PREPARED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA, EXCEPT AS MAY BE MODIFIED BY THE CITY OF COON RAPIDS, MN.

REV NO.	DATE	DESCRIPTION
1	4/01/14	INFILT. CHAMBERS, POND FILES,
2	4/30/14	REMOVED INFILT. CHAMBERS
3	5/21/14	CITY COMMENTS
4	5/27/14	WATERSHED COMMENTS
5	6/23/14	MPCA SUBMITTAL
6	7/09/14	PHASE 1/2 ADD TREES, MOVE TRENCH DRAIN
7	8/25/14	REVISED CASTINGS
8	7/24/14	REVD DRAWING, ADD'D DRAIN, SHOP DRAW REVIEW

DATE: 03/26/2014
DESIGN BY: RDA
DRAWN BY: BJC
CHECKED BY: RDA
DWG: 6948-(0-25FSTM
TEXT:
FILE NO.: 6948.(0-25

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature: Ross D. Abel, PE
Date: 03/26/2014 Lic. No. 16733

Oliver Surveying & Engineering, Inc.
Land Surveying • Civil Engineering • Land Planning
580 Dodge Ave. Elk River, Minnesota 55330
(763) 441-2072 - fax. (763) 441-3665
www.oliver-se.com

MAGNUM TRUCKING
COON RAPIDS, MN

PREPARED FOR:
AMCON

FINAL STORM SEWER PLAN

SHEET NO. 4 OF 10