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N E S W

0 300 600 900
SCALE IN FEET

EXISTING FLOOD ZONE A (ELEVATION UNDETERMINED) PER FEMA PANELS 27053C0043E, 27053C0044E & 27053C0045E, EFFECTIVE DATE 9/2/04.

EXISTING FLOOD ZONE. 100 YEAR FLOOD ELEVATION 912.3 PER ELM CREEK WATERSHED. LIMITS OF FLOOD ZONE PER PROJECT TOPOGRAPHY.

FLOODPLAIN IMPACT - 823,000 S.F.
- 50,000 C.Y.

Date: 04/14/09
Sheet: FPO

Project Name/Location: STONES THROW - MASTER DEVELOPMENT PLAN CITY OF ROGERS, MINNESOTA

Sheet Title: ALTERNATE FLOODPLAIN PLAN

Hill Engineering Project Number: 10001

Client: HASSAN MAINSTREET, LLC.
730 2ND STREET NE
HOPKINS, MINNESOTA 55343
952-930-0930

Hill Engineering, Inc.
1585 Dunlap Street
St. Paul, MN. 55108
651.647.1466

HILL

Designed By: JRH
Drawn By: JRH
Checked By: JRH

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.

JAY R. HILL
Date: 04/14/09
Reg. No. 24552

Revisions Date:	Description:	By:
03/27/09	City Resubmittal	JRH
04/14/09	P.C. Meeting	JRH

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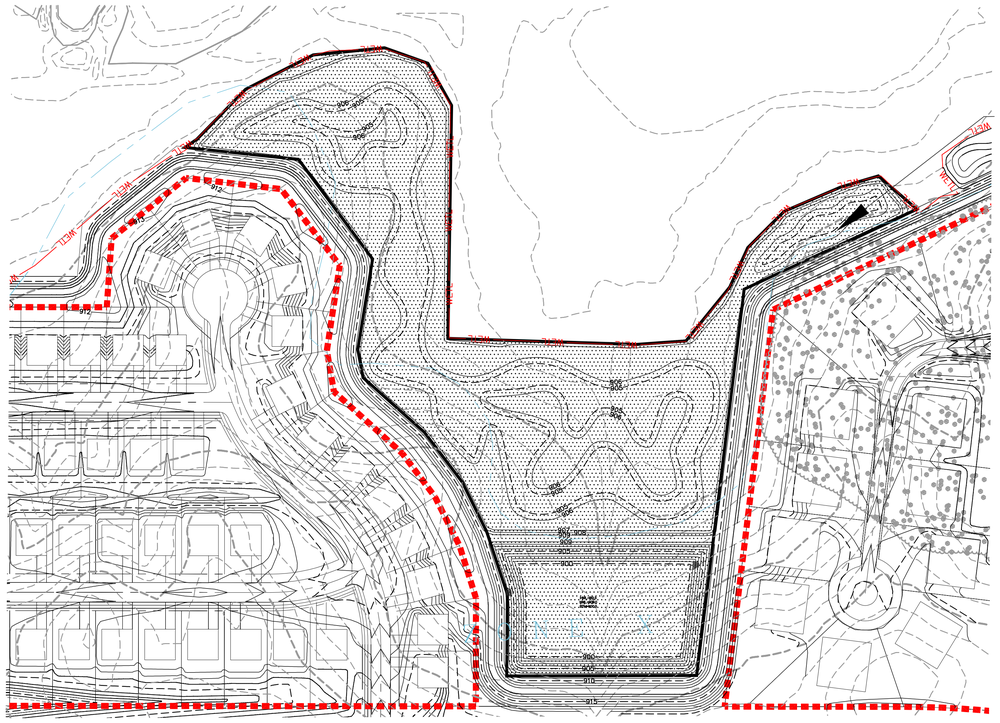
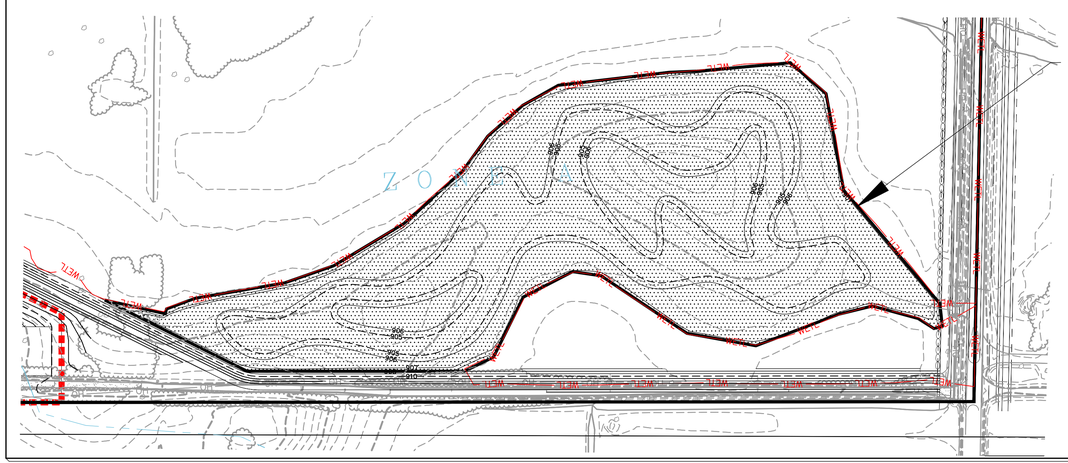
213,000 S.F./15,000 C.Y.



364,000 S.F./40,000 C.Y.



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SCALE IN FEET

FLOODPLAIN MITIGATION AREA -911,000 S.F.
- 92,000 C.Y.

Date: 04/14/09
Sheet: FL1

Project Name/Location: STONES THROW - MASTER DEVELOPMENT PLAN
CITY OF ROGERS, MINNESOTA

Sheet Title: MASTER FLOODPLAIN PLAN

Hill Engineering Project Number: 10001

Client: HASSAN MAINSTREET, LLC.
750 2ND STREET NE
HOPKINS, MINNESOTA 55343
952-930-0630

HILL Engineering, Inc.
1585 Dunlap Street
St. Paul, Mn 55108
(612)987-4455

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EXISTING WETLAND PER JUNE, 2006 WETLAND DELINEATION REPORT

IMPACT #	TYPE	SQ. FT.	ACRES
1	RESIDENTIAL	385	0.01
2	RESIDENTIAL	2,588	0.06
3	COUNTY ROAD	13,554	0.31
5	RESIDENTIAL	3,859	0.09
6	RESIDENTIAL	2,361	0.05
8	RESIDENTIAL	552	0.01
9	RESIDENTIAL	1,836	0.04
10	RESIDENTIAL	997	0.02
11	RESIDENTIAL	1,753	0.04
12	COUNTY ROAD	8,731	0.20
14	COMMERCIAL	740	0.02
15	COMMERCIAL	3,709	0.09
16	POND	8,613	0.20
18	RESIDENTIAL	6,681	0.15
19	RESIDENTIAL	808	0.02
20	RESIDENTIAL	7,879	0.18
21	POND	27,886	0.64
22	POND	1,612	0.04
23	RESIDENTIAL	2,267	0.05
24	COUNTY ROAD	16,400	0.38
25	COUNTY ROAD	5,314	0.12
31	3-RIVERS TRAIL	3,524	0.08
32	3-RIVERS TRAIL	2,696	0.06
33	COUNTY ROAD	41,970	0.96
34	COUNTY ROAD	57,867	1.33
40	COUNTY ROAD	8,088	0.19
41	COUNTY ROAD	8,537	0.20

PUBLIC WETLAND IMPACTS (TO BE PERMITTED & MITIGATED BY OTHERS)

TYPE	TOTAL S.F.	TOTAL ACRES
COUNTY ROAD	160,461	3.68
3-RIVERS TRAIL	6,220	0.14
TOTAL	166,681	3.83

PRIVATE WETLAND IMPACTS (TO BE PERMITTED & MITIGATED BY DEVELOPER)

TYPE	TOTAL S.F.	TOTAL ACRES
RESIDENTIAL	31,965	0.74
COMMERCIAL	4,449	0.10
POND	38,111	0.87
TOTAL	97,796	2.24

Date: 04/14/09
Sheet: WLO
Project Name/Location: STONES THROW - MASTER DEVELOPMENT PLAN CITY OF ROGERS, MINNESOTA
Sheet Title: MASTER WETLAND PLAN
Hill Engineering Project Number: 10001
Client: HASSAN MAINSTREET, LLC. 750 2ND STREET NE HOPKINS, MINNESOTA 55343 952-930-0630
HILL Engineering, Inc. 1585 Dunlap Street St. Paul, Mn 55108 (612)987-4455
Designed By: JRH
Drawn By: JRH
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Date: 04/14/09 Reg. No. 24552

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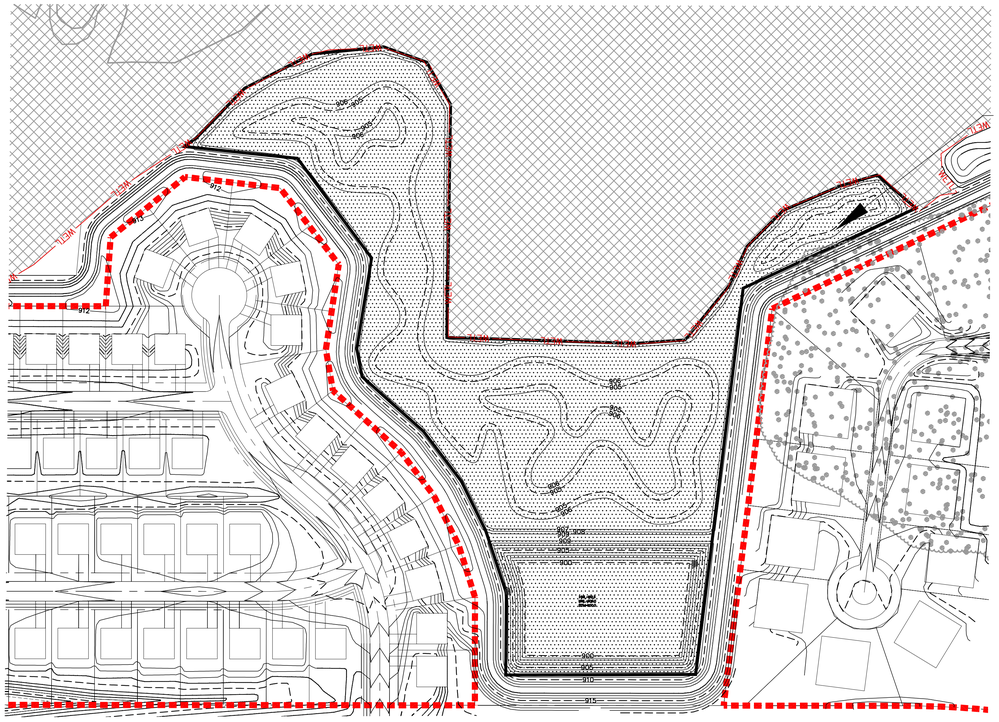
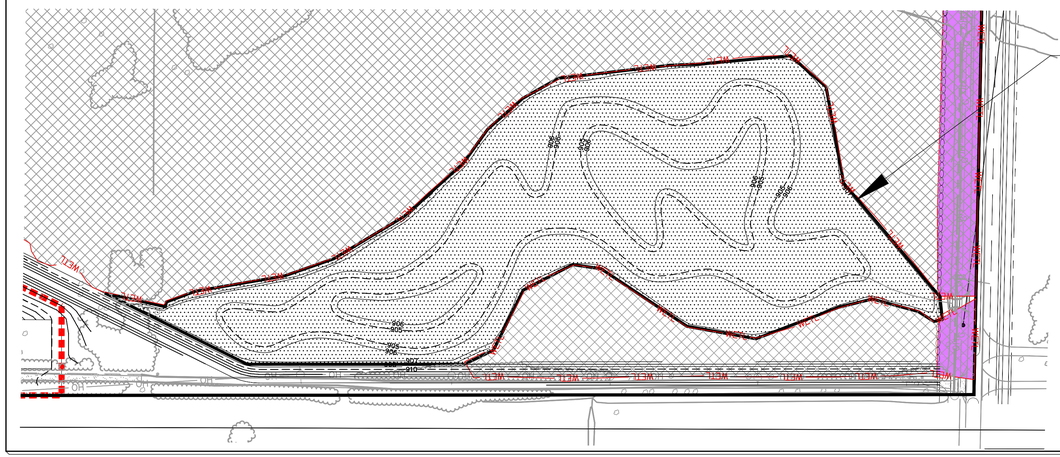
213,000 S.F. NWC



364,000 S.F. NWC



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WETLAND RESTORATION AREA - 911,000 S.F.
- 20.91 ACRES

TYPE	TOTAL IMPACT (ACRES)	2:1 MITIGATION REQUIRED(ACRES)	2:1 MITIGATION PROVIDED(ACRES)	NOTES:
COUNTY ROAD	3.68	7.36	7.36	BANKED FOR PURCHASE
RESIDENTIAL	0.74	1.48	1.48	
COMMERCIAL	0.10	0.20	0.20	
3-RIVERS TRAIL	0.14	0.24	0.24	BANKED FOR PURCASE
POND	0.87	1.74	1.74	
GRAND TOTAL	6.06	12.08	12.08	REMAINING 9.89 ACRES BANKED FOR PURCHASE

Date: 04/14/09
Sheet: WL1

Project Name/Location: STONES THROW - MASTER DEVELOPMENT PLAN
CITY OF ROGERS, MINNESOTA

Sheet Title: MASTER WETLAND PLAN

Hill Engineering Project Number: 10001

Client: HASSAN MAINSTREET, LLC.
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