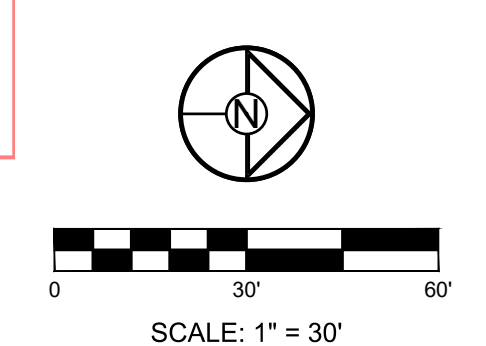


KEY MAP
1" = 200'
AREA OF WORK

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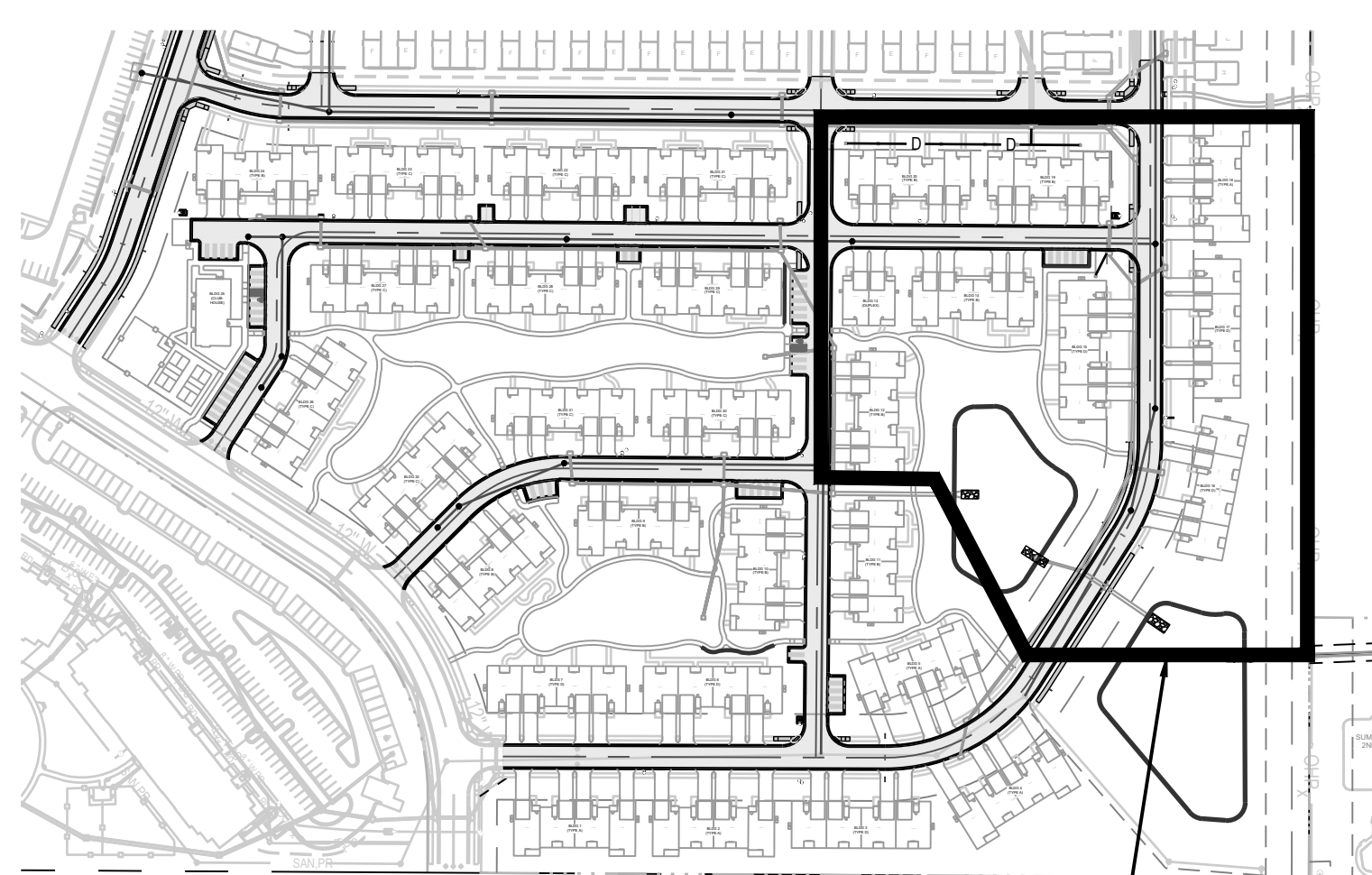
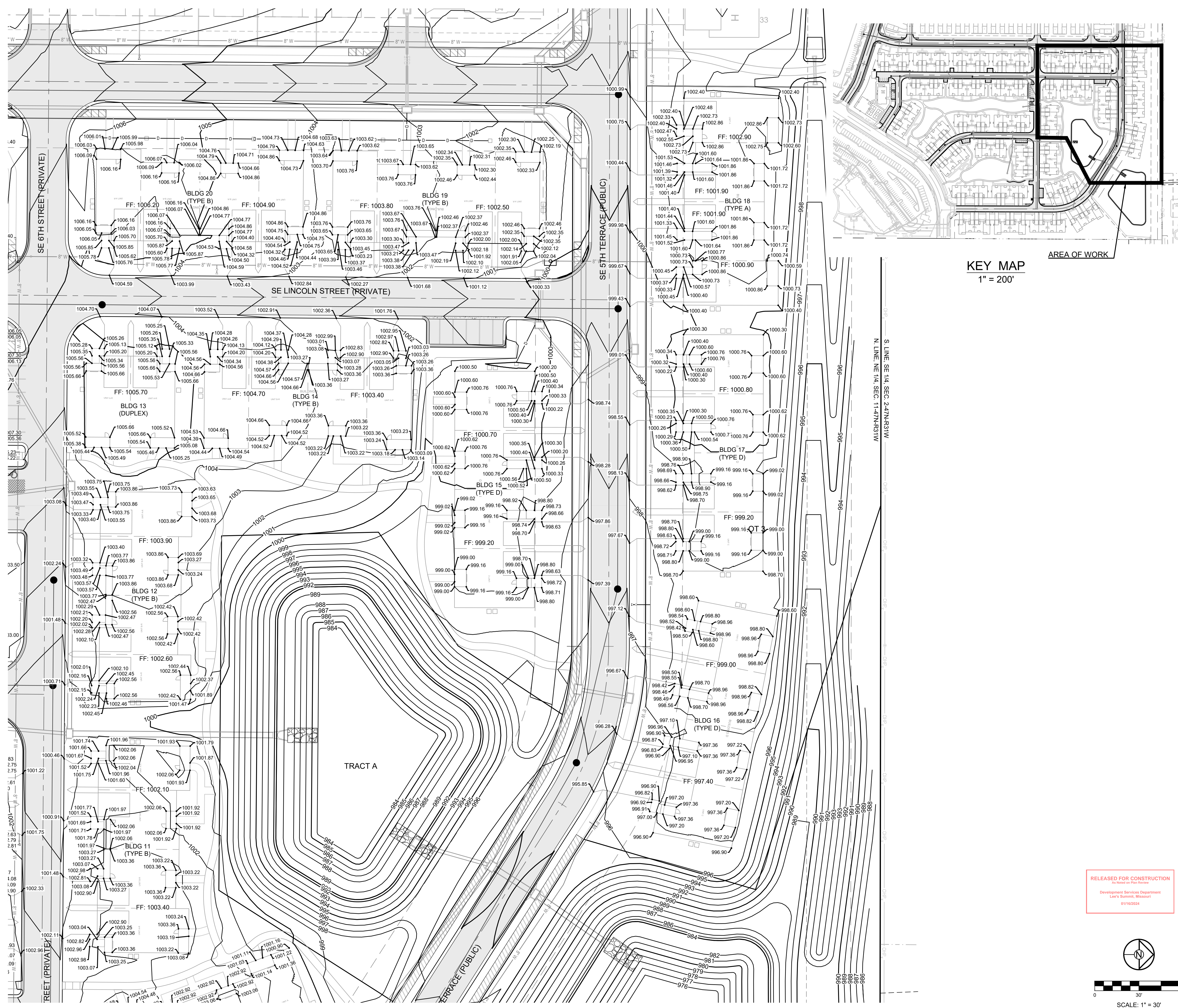
REUNION AT BLACKWELL
FINAL DEVELOPMENT PLAN
SE SHENANDOAH DRIVE LEE'S SUMMIT, MO

REVISION DATE	DESCRIPTION
05/05/23	PER CITY COMMENTS
06/27/23	PER CITY COMMENTS
08/24/23	PER CITY COMMENTS
09/25/23	PER CITY COMMENTS
10/05/23	PER CITY COMMENTS

DRAWN BY:	TRC
CHECKED BY:	MAB
DATE PREPARED:	05/05/2023
PROJ. NUMBER:	22-597

SPOT ELEVATIONS - BUILDINGS

SHEET **C208**



REUNION AT BLACKWELL
 FINAL DEVELOPMENT PLAN
 SE SHENANDOAH DRIVE LEE'S SUMMIT, MO

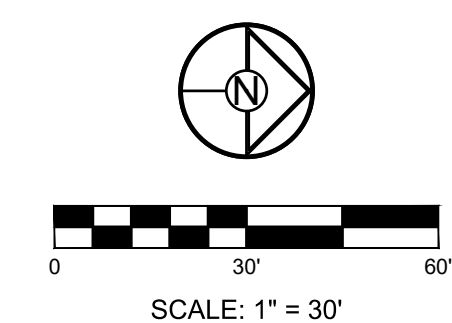
REVISION DATE	DESCRIPTION
05/05/23	PER CITY COMMENTS
06/27/23	PER CITY COMMENTS
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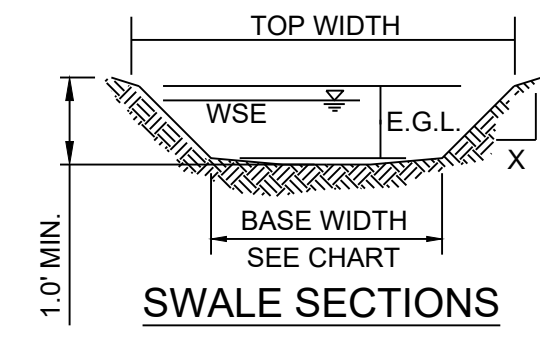
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CHECKED BY:	MAB
DATE PREPARED:	03/05/2023
PROJ. NUMBER:	22-597

SPOT ELEVATIONS - BUILDINGS

SHEET
C209

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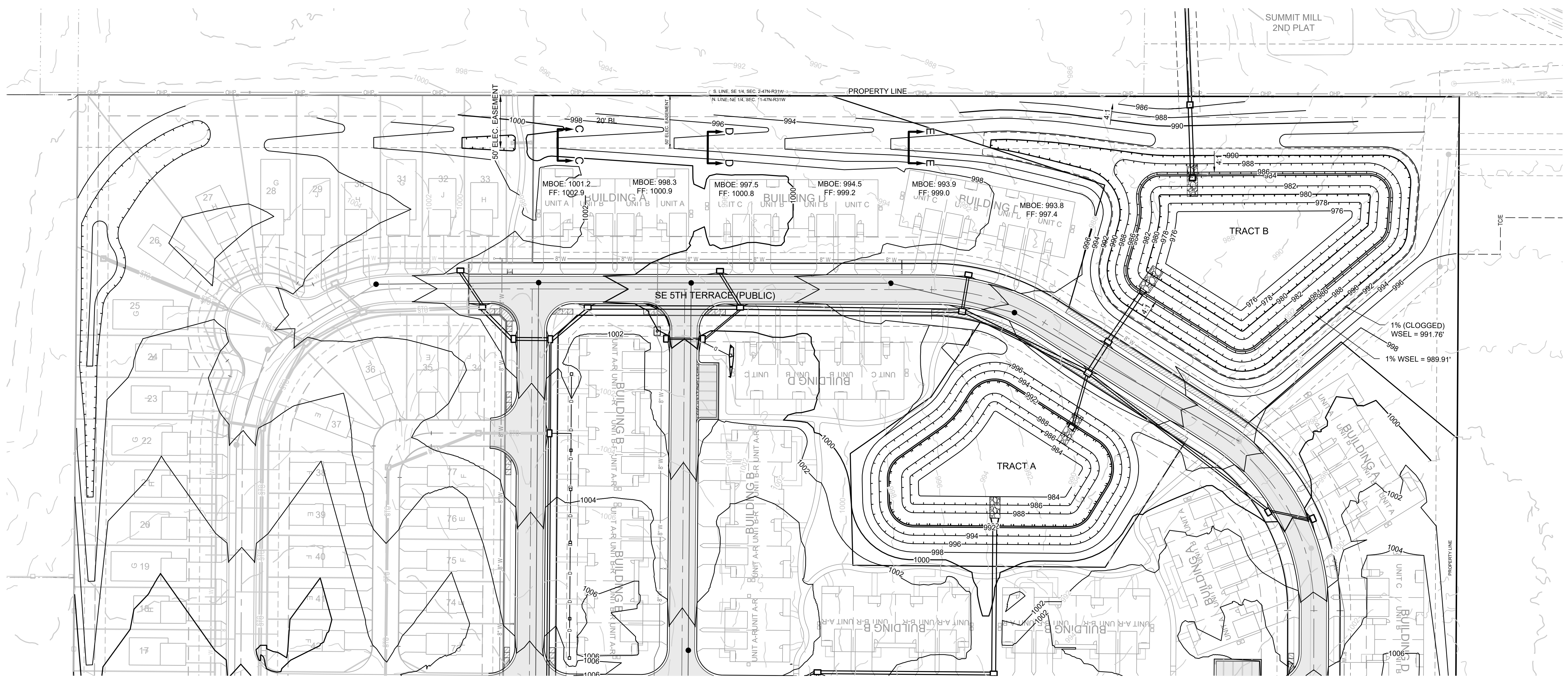




RUNOFF CALCULATIONS:
 $Q = K \cdot C \cdot I \cdot A$
 $K_{100} = 1.25 K_{10} = 1.0 C = 0.51$
 $V_{10} = 7.35 \quad V_{100} = 10.32$
 VELOCITY HEAD = $(\text{VELOCITY})^2 / 64.4$
 EGL = DEPTH + VELOCITY HEAD

EXISTING CHANNEL															
SECTION	DRAINAGE AREA (AC.)	Q100 (CFS)	Q10 (CFS)	DESIGN OVERFLOW FORMULA	DESIGN OVERFLOW (CFS)	BED SLOPE (%)	SIDE SLOPE (X:1)	SIDE SLOPE (X:2)	BASE WIDTH (FT)	CROSS SECTION AREA (FT2)	TOP WIDTH (FT)	NOMINAL DEPTH (FT.)	AVERAGE VELOCITY (FPS)	VELOCITY HEAD (FT.)	EGL (FT.)
C	0.45	3.83	2.73	Q100(C)	3.83	2.00	4.00	4.00	10.00	2.62	11.92	0.17	2.07	0.07	0.24
D	0.69	5.87	4.18	Q100(C)	5.87	2.00	4.00	4.00	10.00	3.51	12.49	0.22	2.43	0.09	0.31
E	1.01	8.60	6.12	Q100(C)	8.60	2.00	4.00	4.00	10.00	4.65	13.21	0.28	2.79	0.12	0.40

- NOTES:**
- MBOE = MINIMUM BUILDING OPENING ELEVATION FOR HOUSES ADJACENT TO ENGINEERED OVERFLOW SWALES SHALL BE A MINIMUM OF 2 FEET ABOVE THE WATER SURFACE ELEVATION FOR THE 1% CHANCE STORM EVENT. APPROVED INDIVIDUAL LOT PLOT PLANS MAY ALTER THE CONSTRUCTED SWALES IN ELEVATION (CONTOUR) FROM THE GRADING PLAN AS LONG AS THE MBOE IS ADJUSTED ACCORDING TO THE ABOVE CRITERIA.
 - EGL = ENERGY GRADE LINE (100 YR)
 - MWSE = MAXIMUM WATER SURFACE ELEVATION (100 YR)
 - MBOE'S ADJACENT TO SUMPED AREA INLETS SHALL BE A MINIMUM OF 1' ABOVE TOP OF ADJACENT BERM.



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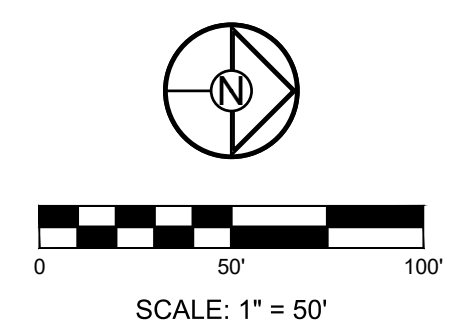
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MO GRS BENCHMARK:

STATION NAME - JA-90
 KC METRO ALUMINUM GRS DISK SET IN CONCRETE STAMPED "JA-90, 1988"
 LOCATED NEAR THE INTERSECTION OF LANGSFORD ROAD AND OLD LANGSFORD ROAD. 43 FEET SOUTHEAST OF THE CENTER OF LANGSFORD ROAD AND 32 FEET NORTH OF THE CENTER OF OLD LANGSFORD ROAD.
 N:1001052.8503, E:2845604.8272
 ELEV. 997.045

PROJECT BENCHMARK:

"SQUARE" CUT IN TOP OF CONCRETE STORM MANHOLE
 STORM MANHOLE IS LOCATED APPROX. 130 FEET EAST OF THE INTERSECTION OF SE JOEL AVE & BLUE PARKWAY AND 26 FEET SOUTH OF THE CENTERLINE OF BLUE PARKWAY.
 N:996874.9690, E:2840937.1365
 ELEV. 1005.719



NORTH SWALE PLAN