

PUBLIC STREETS

Street Classification	Pavement Option	AC Surface (in.)	AC Base (in.)	Aggregate Base (in.)	Chemical Subgrade Stabilization (in.)	Geogrid / Geotextile ⁽¹⁾
Residential Local/Access	A	2	4	6	6	--
	B	2	4	10	--	Geogrid / Geotextile
Residential Collector	A	2	5.5	6	9	--
	B	2	5.5	12	--	Geogrid / Geotextile
Commercial Industrial Local/Collector	A	2	7.5	6	9	--
	B	2	7.5	12	--	Geogrid / Geotextile

Notes:
(1) Geogrid shall be polypropylene material and Geotextile shall be woven, polypropylene as shown in the City's Approved Products List

Asphalt location	Mix Type	Recycled Mix Allowed?	Upper PG Limit	Lower PG limit
Industrial/Arterial surface	5 or 6	no	70 or greater	-22 or less
Base courses greater than 2 inches below the surface on industrial and arterial streets	5	yes	64 or greater	-22 or less
Local and Collector surface	5 or 6	no	64 or greater	-22 or less
Base courses greater than 2 inches below the surface on local and collector streets	5	yes	64 or greater	-22 or less

STREET NOTES:

- ALL STREET CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL. ALL APPLICABLE AASHTO STANDARDS HAVE BEEN MET.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.
- ALL INSPECTION OF STREET CONSTRUCTION TO BE PERFORMED BY THE CITY OF LEE'S SUMMIT DEVELOPMENT ENGINEERING.
- CURB RETURN RADII SHALL BE 25' AT BACK OF CURB UNLESS OTHERWISE NOTED.
- SUBGRADE TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- ASSUMED DESIGN SPEED = 25 MPH (RESIDENTIAL LOCAL).
- MINIMUM STOPPING SIGHT DISTANCE = 155 FEET.
- MINIMUM K, SAG CURVE = 26 (14 WITH LIGHTING), CREST CURVE = 12.
- GRADE INTERSECTIONS TO DRAIN AS SHOWN.
- SSD = STOPPING SIGHT DISTANCE.
- ALL ADA SIDEWALK RAMPS SHALL BE CONSTRUCTED BY THE DEVELOPER WITH THE PUBLIC INFRASTRUCTURE.

MO GRS BENCHMARK:

STATION NAME - JA-90

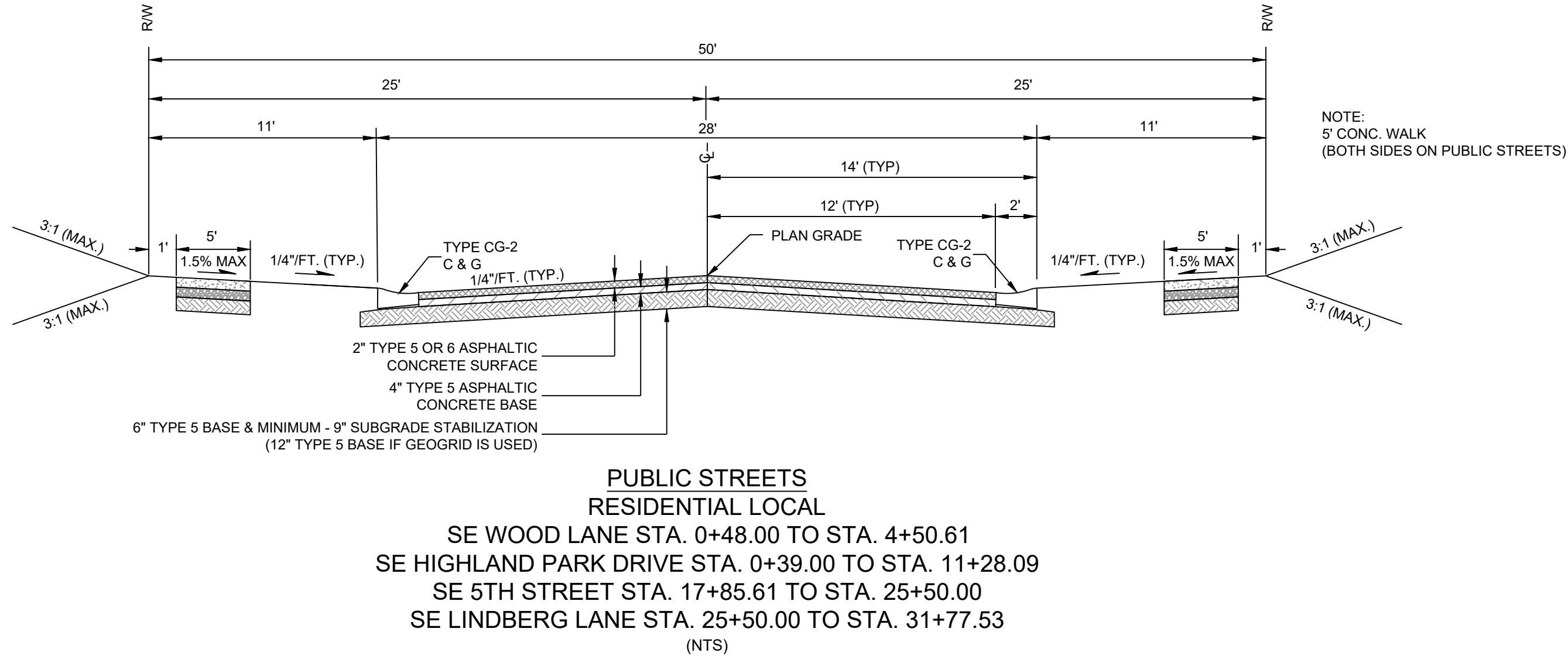
KC METRO ALUMINUM GRS DISK SET IN CONCRETE STAMPED "JA-90, 1988" LOCATED NEAR THE INTERSECTION OF LANGSFORD ROAD AND OLD LANGSFORD ROAD, 43 FEET SOUTHEAST OF THE CENTER OF LANGSFORD ROAD AND 32 FEET NORTH OF THE CENTER OF OLD LANGSFORD ROAD.
N:1001052.8503, E:2845604.8272

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



PREPARED BY:



09.18.2023

SCHLAGEL & ASSOCIATES, P.A.

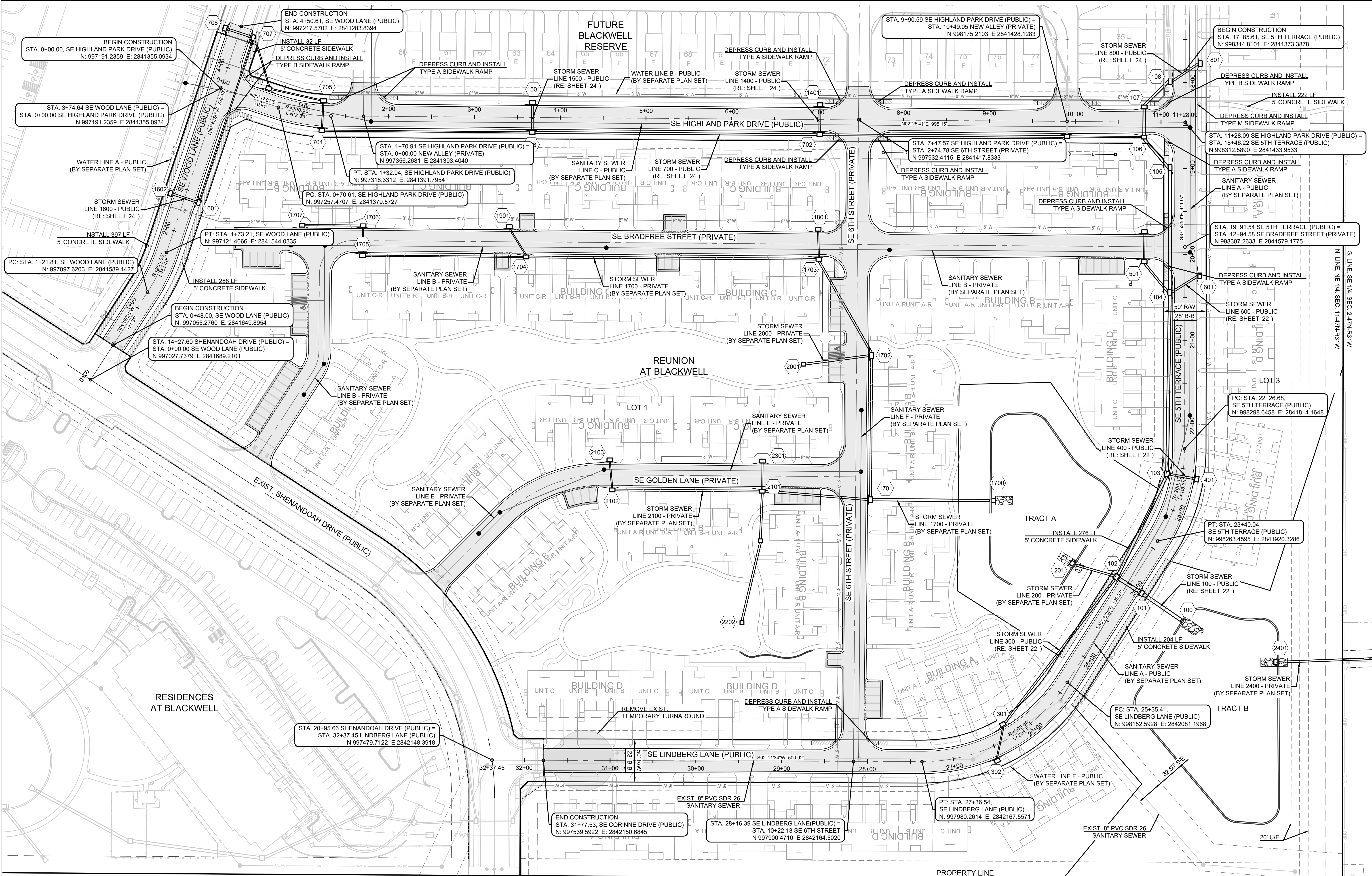
REUNION AT BLACKWELL
PUBLIC STREET AND STORM SEWER PLANS
SE SHENANDOAH DRIVE LEE'S SUMMIT, MO

REVISION		DESCRIPTION
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TYPICAL SECTIONS

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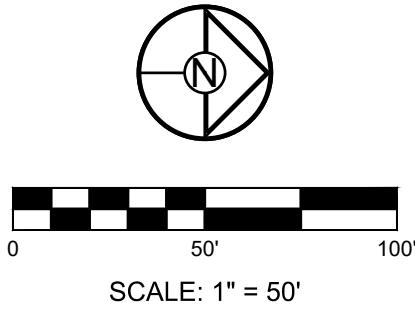


PRIVATE ROAD NOTE:
SE LINCOLN STREET, SE GOLDEN LANE & SE 6TH STREET ARE PRIVATE ROADS AND WILL BE CONSTRUCTED UNDER A SEPARATE PLAN SET.

SIDEWALK NOTE:
SIDEWALKS ADJACENT TO BUILDINGS WILL BE INSTALLED BY OTHERS, UNLESS NOTED OTHERWISE.

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Missouri State Certificate of Authority
#E200200360F #LAC201005237 #LS200208695F

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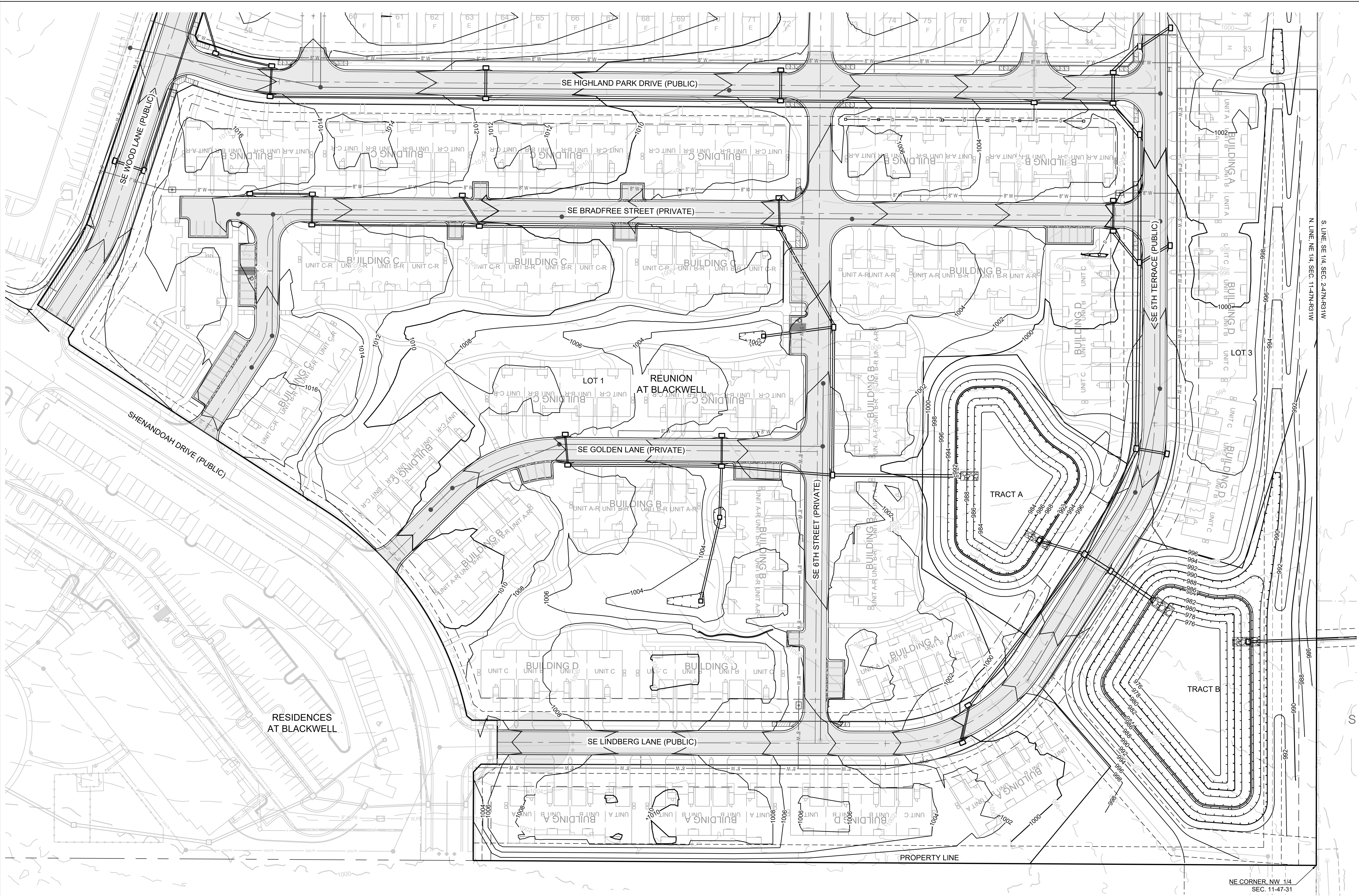
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GRADING LEGEND:

- 1000 — EXISTING CONTOUR
- 1000 — PROPOSED CONTOUR (FINISHED GRADE)

NOTES:

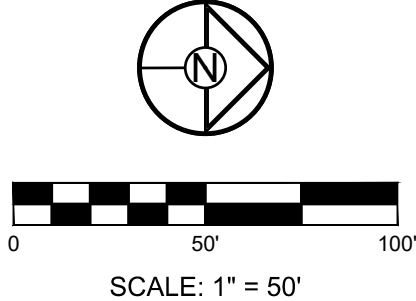
- ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEE'S SUMMIT TECHNICAL SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.

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



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Missouri State Certificates of Authority
#E200200360F #LAC001005237 #LS200208659F

PREPARED BY:

STATE OF MISSOURI

MARK ALLEN BREUER

NUMBER PE-2005007268

PROFESSIONAL ENGINEER

09.18.2023

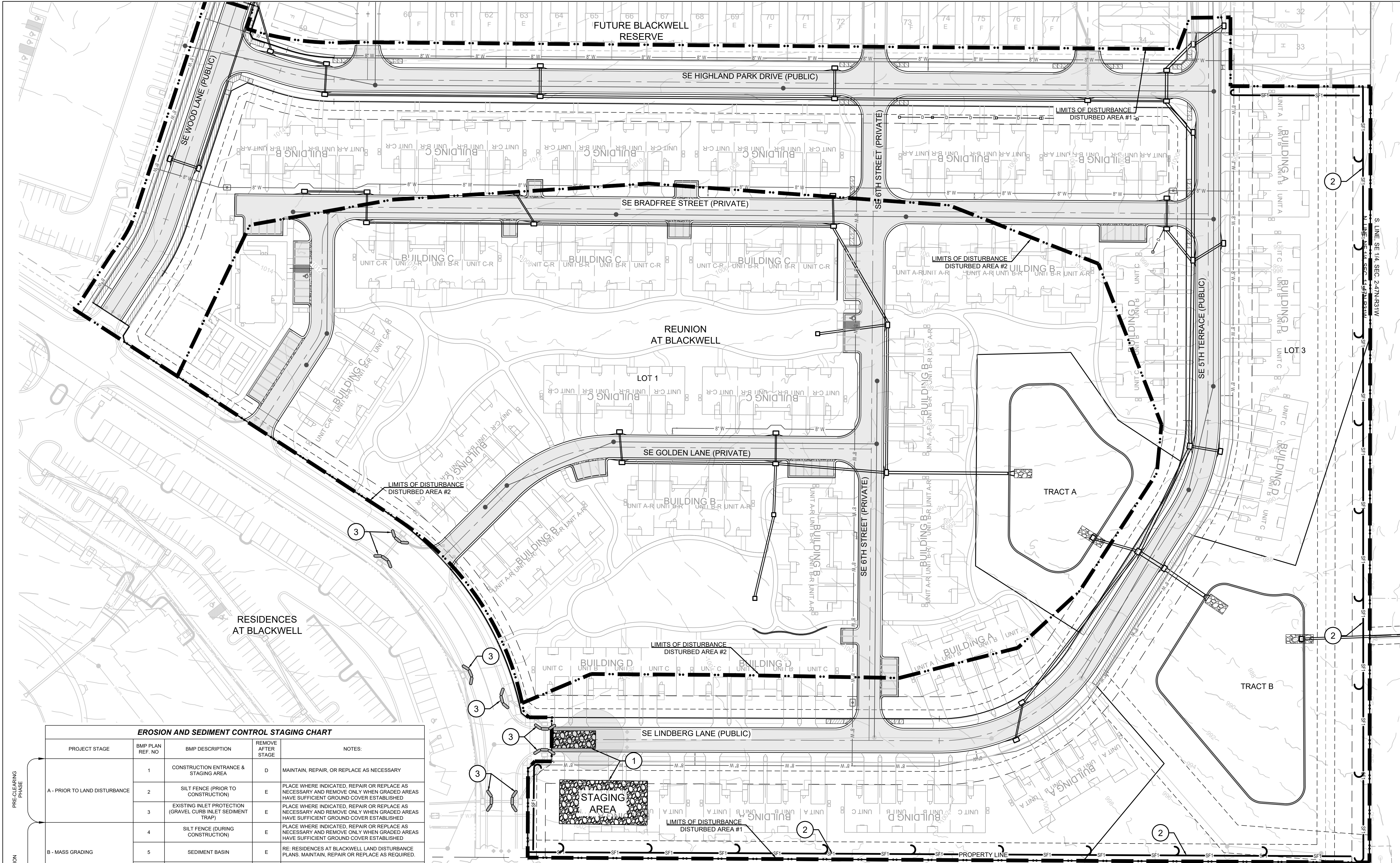
SCHLAGEL & ASSOCIATES, P.A.

REUNION AT BLACKWELL

PUBLIC STREET AND STORM SEWER PLANS

SE SHENANDOAH DRIVE LEE'S SUMMIT, MO

REVISION	DATE	DESCRIPTION
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EROSION AND SEDIMENT CONTROL STAGING CHART					
	PROJECT STAGE	BMP PLAN REF. NO	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
PRE-CLEARING PHASE	A - PRIOR TO LAND DISTURBANCE	1	CONSTRUCTION ENTRANCE & STAGING AREA	D	MAINTAIN, REPAIR, OR REPLACE AS NECESSARY
		2	SILT FENCE (PRIOR TO CONSTRUCTION)	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
		3	EXISTING INLET PROTECTION (GRAVEL CURB INLET SEDIMENT TRAP)	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
CONSTRUCTION PHASE	B - MASS GRADING	4	SILT FENCE (DURING CONSTRUCTION)	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
		5	SEDIMENT BASIN	E	RE: RESIDENCES AT BLACKWELL LAND DISTURBANCE PLANS. MAINTAIN, REPAIR OR REPLACE AS REQUIRED.
		6	ROCK DITCH CHECK	E	PLACE WHERE INDICATED, REPAIR OR REPLACE AS NECESSARY AND REMOVE ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
FINAL STABILIZATION PHASE	C - UTILITY CONSTRUCTION	7	CONCRETE WASHOUT AREA	E	MAINTAIN, REPAIR, OR REPLACE AS NECESSARY
		8	INLET PROTECTION (SILT FENCE)	D/E	PLACE SILT FENCE AROUND ALL STORM SEWER STRUCTURES / YARD AREA STORM STRUCTURES TO HAVE SILT FENCE REMOVED ONLY WHEN GRADED AREAS HAVE SUFFICIENT GROUND COVER ESTABLISHED
	D - AFTER PAVING OPERATIONS	9	INLET PROTECTION (GRAVEL FILTER BAGS)	E	BOARDS SHALL BE PLACED IN FRONT OF INLET OPENING FROM THE TIME SILT FENCE IS REMOVED UNTIL SUCH TIME THAT THE CURB / THROAT IS POURED. PLACE GRAVEL FILTER BAGS AT THE OPENING OF ALL CURB INLETS IMMEDIATELY AFTER THE INLET THROATS ARE POURED
10		SEEDING AND MULCHING	E	ALL DISTURBED AREAS AFTER 14 DAYS OF CONSTRUCTION INACTIVITY	
	E - UNTIL CLOSURE OF LAND DISTURBANCE PERMIT				ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED ANY TIME CURRENT MEASURES ARE FOUND TO BE INEFFECTIVE.

LEGEND

TEMP. CONSTRUCTION ENTRANCE AND STAGING AREA

CONCRETE WASHOUT AREA

ROCK DITCH CHECK

BMP PLAN REF. NO.

SILT FENCE FOR INLET PROTECTION PRIOR TO STRUCTURE TOP

SUPER SEDIMENT SILT FENCE (PRIOR TO LAND DISTURBANCE)

SILT FENCE (PRIOR TO LAND DISTURBANCE)

SILT FENCE (DURING CONSTRUCTION)

LIMITS OF DISTURBANCE

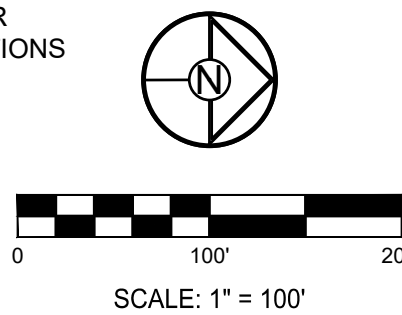
EXISTING CONTOURS

PROPOSED CONTOURS

GRAVEL FILTER FOR STORM SEWER STRUCTURES ONLY

- DISTURBED AREA #1 = 14.34 A.C.**
DISTURBED AREA #2 = 11.02 A.C.
- SITE SPECIFIC NOTES:**
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.
 - THERE ARE NO WETLANDS, NATURAL OR ARTIFICIAL WATER STORAGE DETENTION AREAS IN THE PROJECT AREA.
 - NO PART OF THE PROJECT LIES WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD INSURANCE RATE MAP NUMBERS 29095C0441G, 29095C0445G, 29095C0437G AND 29095C0439G DATED JANUARY 20TH, 2017.
 - ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED ACCORDING TO THE BMP STAGING CHART.
 - ADDITIONAL EROSION CONTROL MAY BE REQUIRED BY THE CITY ENGINEER AT ANY TIME EXISTING MEASURES ARE FOUND TO BE INEFFECTIVE OR PROBLEMATIC AREAS ARE NOTED IN THE FIELD.
 - STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING, OR OTHER SOIL DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THE DISTURBED AREAS SHALL BE PROTECTED FROM EROSION BY STABILIZING THE AREA WITH MULCH OR OTHER SIMILARLY EFFECTIVE SOIL STABILIZING BMPs. INITIAL STABILIZATION ACTIVITIES MUST BE COMPLETED WITHIN 14 DAYS AFTER SOIL DISTURBING ACTIVITIES CEASE.
 - ALL PERIMETER SILT FENCE, EARTH DIKES, SEDIMENT BASINS, AND ROCK CONSTRUCTION ENTRANCES WILL BE INSTALLED BEFORE GRADING OPERATIONS BEGIN.
 - SILT FENCE AND EARTH DIKES THAT ARE PLACED BEFORE GRADING BEGINS WILL BE MAINTAINED BY THE GRADING CONTRACTOR.
 - AREAS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE SODED IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE.
 - SEE MASS GRADING & EROSION SEDIMENT CONTROL PLANS FOR RESIDENCES, TRADITIONS & RESERVE AT BLACKWELL FOR SILT FENCE INSTALLATION.

- NOTES:**
- ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEE'S SUMMIT TECHNICAL SPECIFICATIONS.
 - THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.



SCHLAGEL
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Missouri State Certificates of Authority
#E2002003609F #LAC2001005237 #LS200200859F

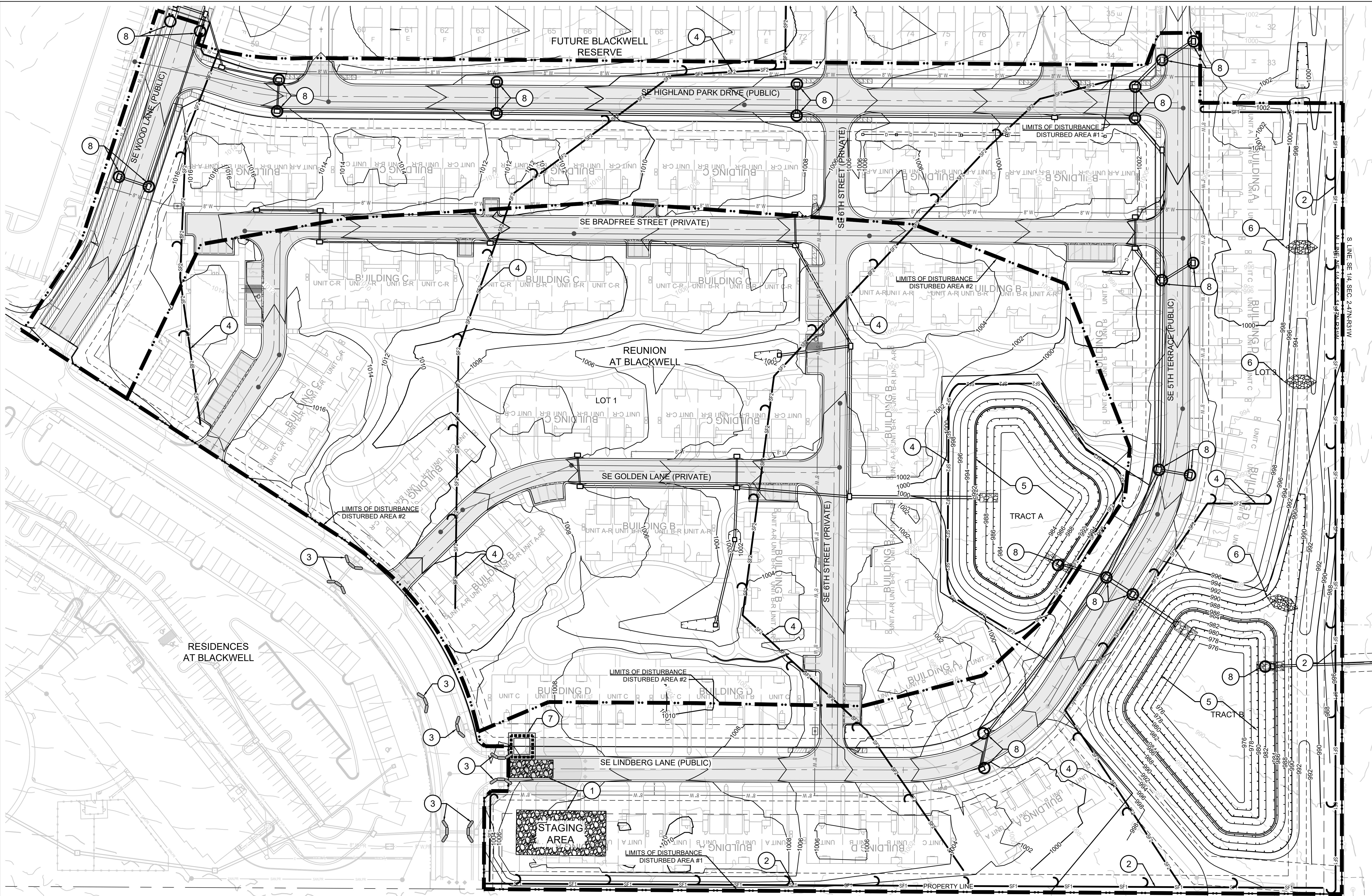
PREPARED BY:

SCHLAGEL & ASSOCIATES, P.A.

REUNION AT BLACKWELL
PUBLIC STREET AND STORM SEWER PLANS
SE SHENANDOAH DRIVE LEE'S SUMMIT, MO

REVISION DATE	DESCRIPTION
05/05/2023	PER CITY COMMENTS
06/02/2023	PER CITY COMMENTS
06/27/2023	PER CITY COMMENTS
06/06/2023	PER CITY COMMENTS
03/03/2023	DATE PREPARED
22-597	PROJ. NUMBER

PRE-CONSTRUCTION
EROSION
CONTROL PLAN
SHEET
8



PRIVATE ROAD NOTE:
SE LINCOLN STREET, SE GOLDEN LANE & SE 6TH STREET ARE
PRIVATE ROADS AND WILL BE CONSTRUCTED UNDER A SEPARATE PLAN SET.

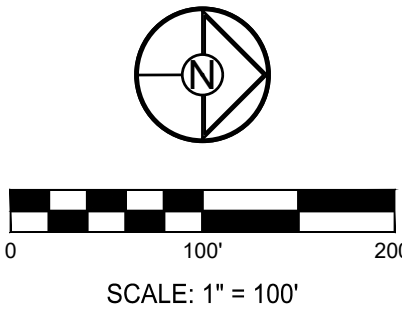
- NOTES:
1. ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEE'S SUMMIT TECHNICAL SPECIFICATIONS.
 2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.
 3. SEE SHEET 8 FOR EROSION CONTROL NOTES, LEGEND AND STAGING CHART.

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



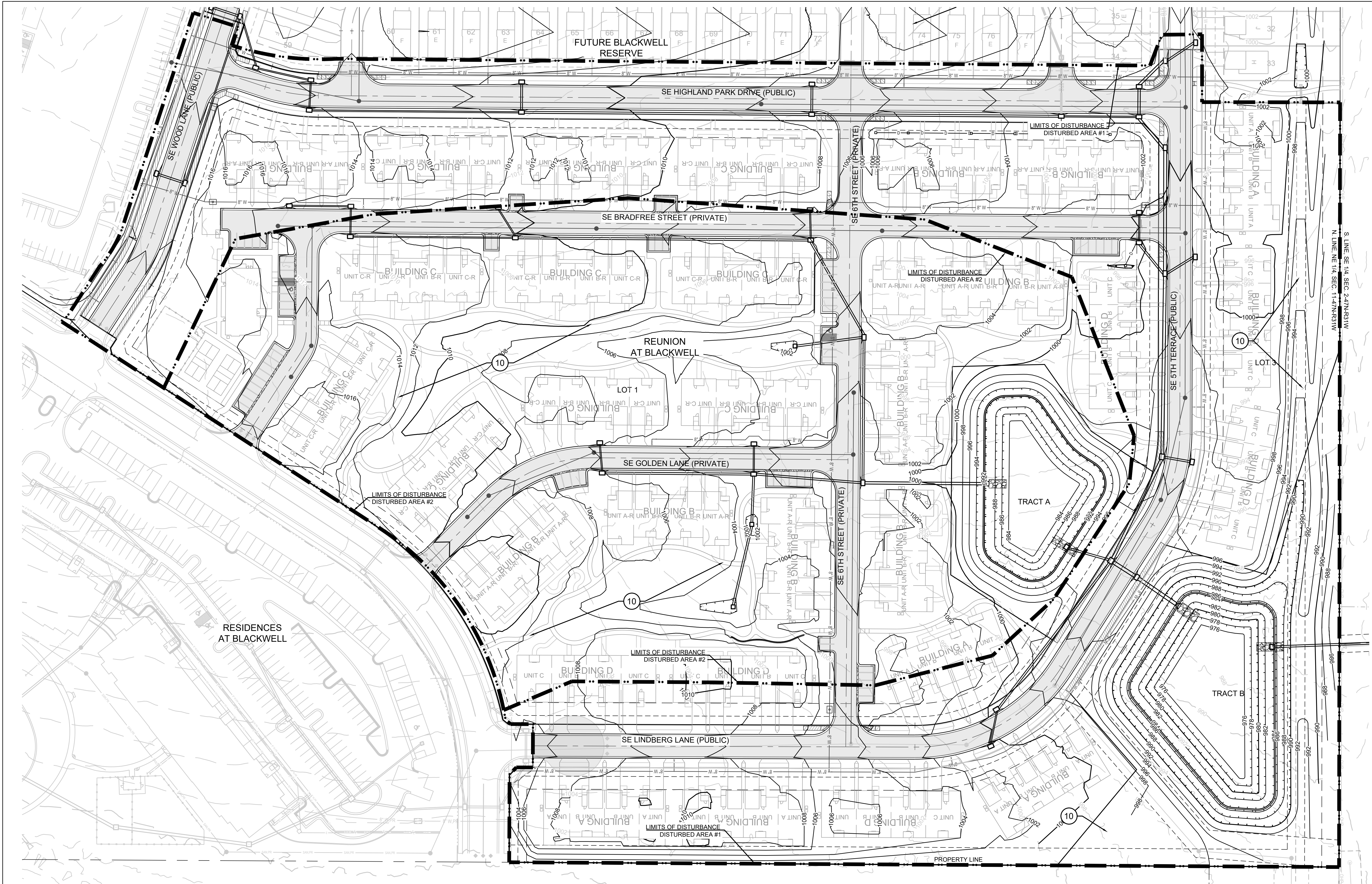
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Missouri State Certificate of Authority
#E2002003600-F #LAC2001005237 #LS200200859-F

PREPARED BY:

MARK ALLEN BREUER
09.18.2023
SCHLAGEL & ASSOCIATES, P.A.

REUNION AT BLACKWELL
PUBLIC STREET AND STORM SEWER PLANS
SE SHENANDOAH DRIVE LEE'S SUMMIT, MO

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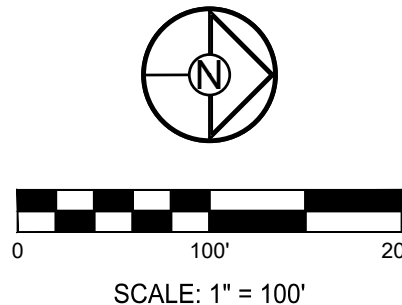


PRIVATE ROAD NOTE:
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PROJECT BENCHMARK:
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MARK ALLEN BREUER
PROFESSIONAL ENGINEER
09.18.2023

SCHLAGEL & ASSOCIATES, P.A.

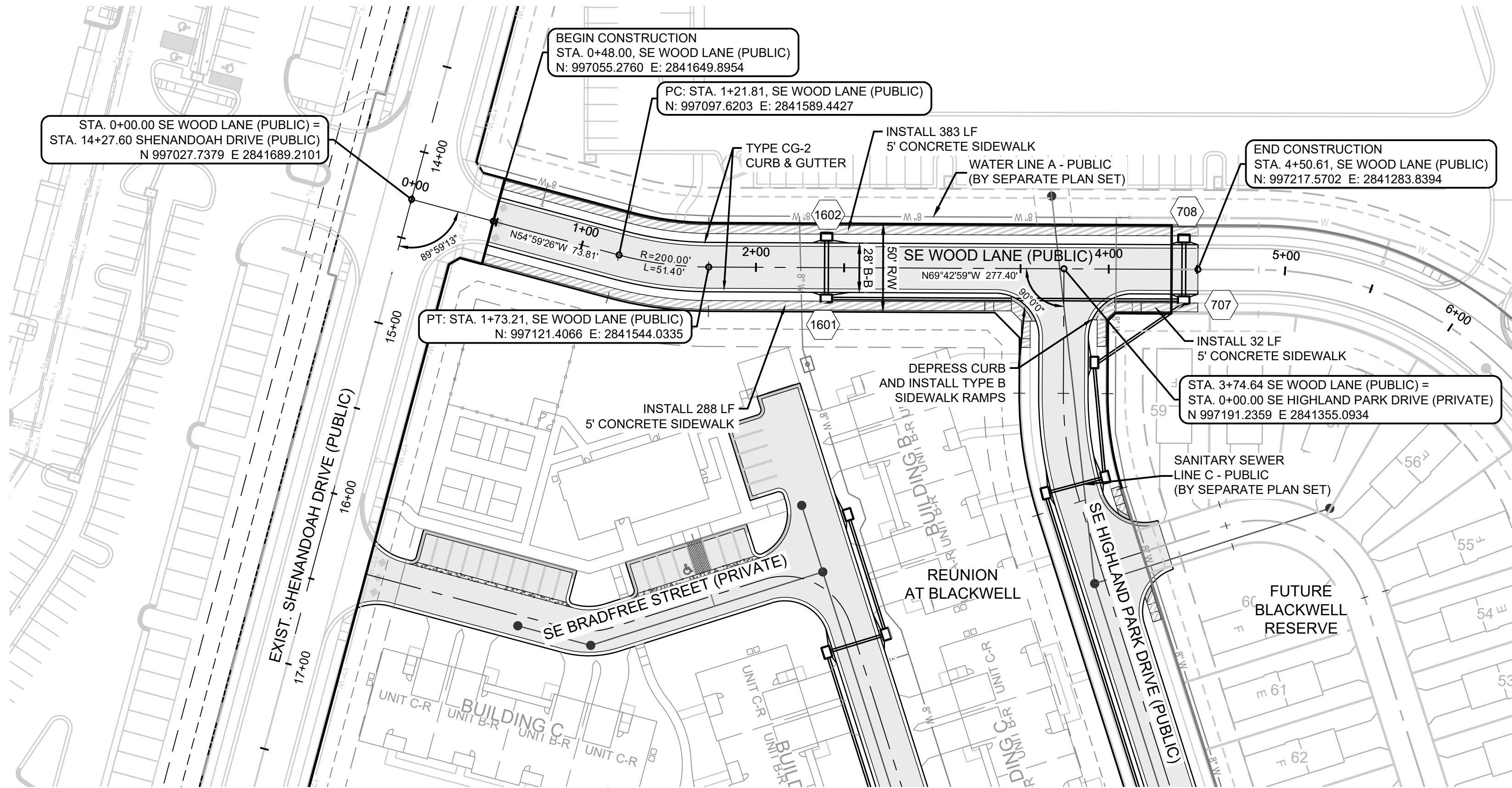
REUNION AT BLACKWELL
PUBLIC STREET AND STORM SEWER PLANS
SE SHENANDOAH DRIVE LEE'S SUMMIT, MO

REVISION	DATE	DESCRIPTION
1	05/05/2023	PER CITY COMMENTS
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8	06/06/2023	PER CITY COMMENTS
9	06/06/2023	PER CITY COMMENTS
10	06/06/2023	PER CITY COMMENTS

POST-CONSTRUCTION
EROSION
CONTROL PLAN

SHEET

10



PROJECT BENCHMARK:

"SQUARE" CUT IN TOP OF CONCRETE STORM MANHOLE
STORM MANHOLE IS LOCATED APPROX. 130 FEET EAST OF THE
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ELEV. 1005.719

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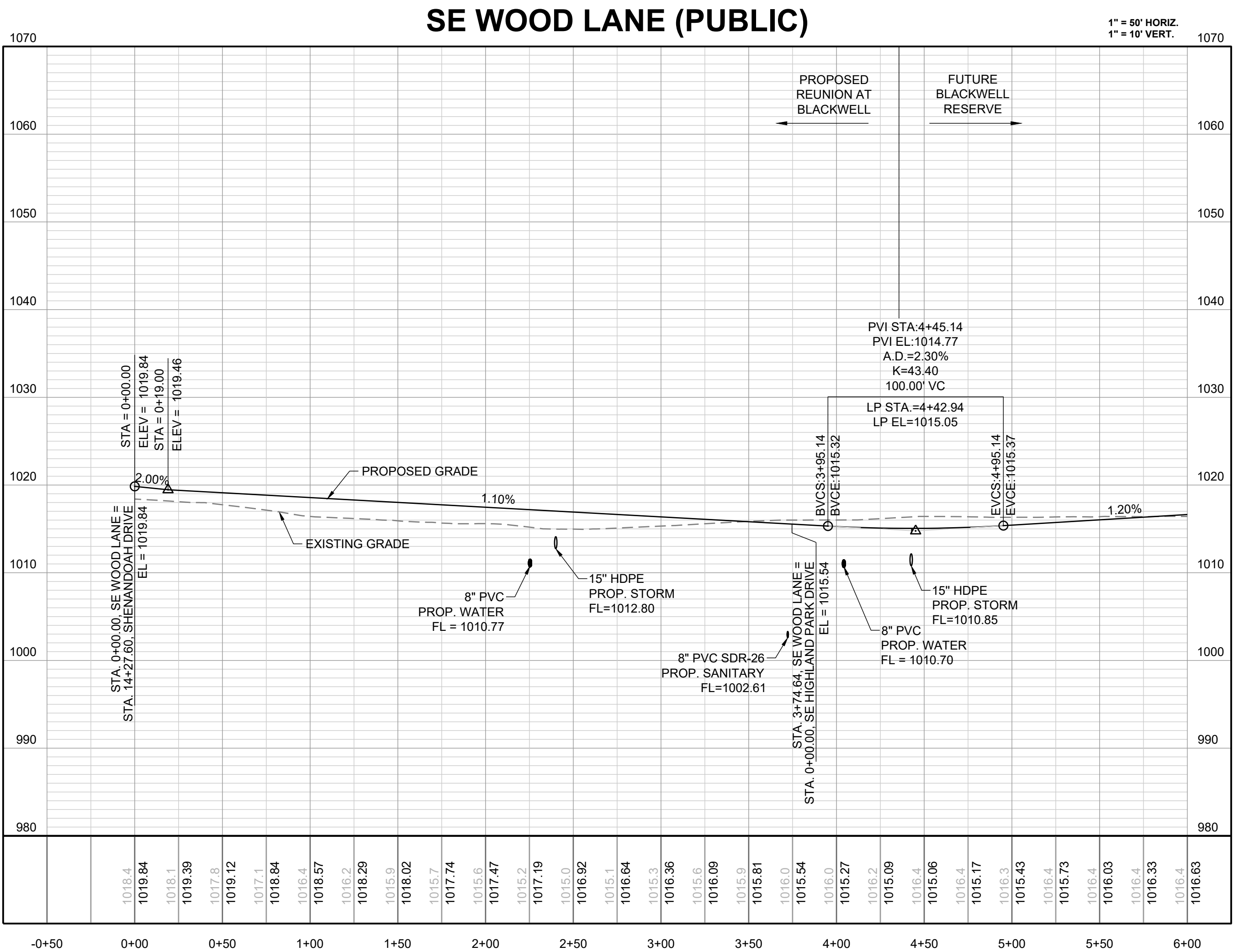
ELEV. 997.045

STREET NOTES:

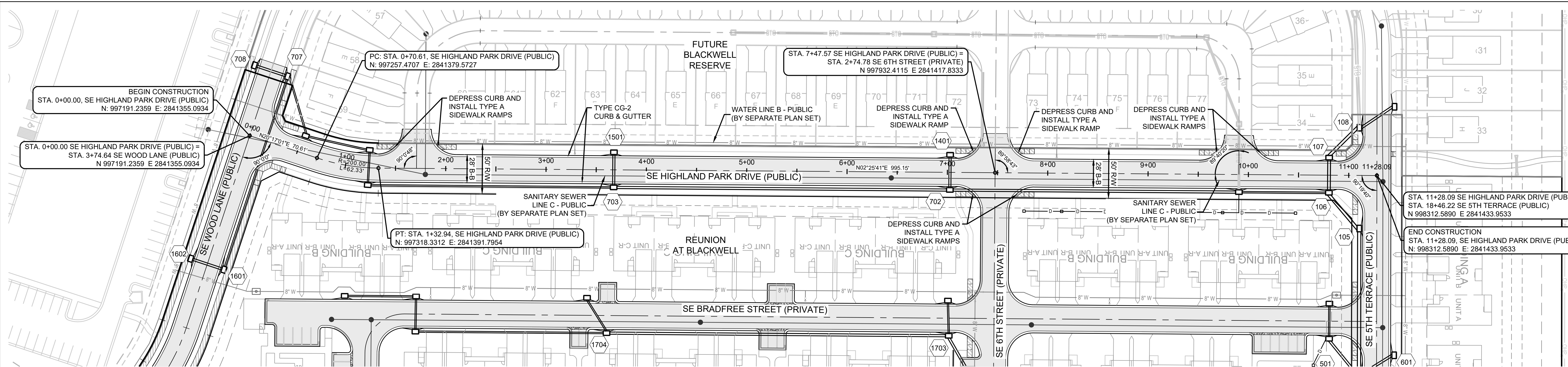
1. ALL STREET CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL. ALL APPLICABLE AASHTO STANDARDS HAVE BEEN MET.
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.
3. ALL INSPECTION OF STREET CONSTRUCTION TO BE PERFORMED BY THE CITY OF LEE'S SUMMIT DEVELOPMENT ENGINEERING.
4. CURB RETURN RADII SHALL BE 25' AT BACK OF CURB UNLESS OTHERWISE NOTED.
5. SUBGRADE TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
6. ASSUMED DESIGN SPEED = 25 MPH (RESIDENTIAL LOCAL).
7. MINIMUM STOPPING SIGHT DISTANCE = 155 FEET.
8. MINIMUM K, SAG CURVE = 26 (14 WITH LIGHTING), CREST CURVE = 12.
9. GRADE INTERSECTIONS TO DRAIN AS SHOWN.
10. SSD = STOPPING SIGHT DISTANCE.
11. ALL ADA SIDEWALK RAMPS SHALL BE CONSTRUCTED BY THE DEVELOPER WITH THE PUBLIC INFRASTRUCTURE.

PRIVATE ROAD NOTE:
SE BRADFEE STREET, SE GOLDEN LANE & SE 6TH STREET ARE
PRIVATE ROADS AND WILL BE CONSTRUCTED UNDER A SEPARATE PLAN SET.

SIDEWALK NOTE:
SIDEWALKS ADJACENT TO BUILDINGS WILL BE INSTALLED BY
OTHERS, UNLESS NOTED OTHERWISE.



REVISION DATE	DESCRIPTION
05/05/2023	PER CITY COMMENTS
06/02/2023	PER CITY COMMENTS
06/27/2023	PER CITY COMMENTS
06/06/2023	PER CITY COMMENTS
DRAWN BY: TRC	
CHECKED BY: MAB	
DATE PREPARED: 03/03/2023	
PROJ. NUMBER: 22-002	



STREET NOTES:

1. ALL STREET CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL. ALL APPLICABLE AASHTO STANDARDS HAVE BEEN MET.
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6. ASSUMED DESIGN SPEED = 25 MPH (RESIDENTIAL LOCAL).
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10. SSD = STOPPING SIGHT DISTANCE.
11. ALL ADA SIDEWALK RAMP SHALL BE CONSTRUCTED BY THE DEVELOPER WITH THE PUBLIC INFRASTRUCTURE.

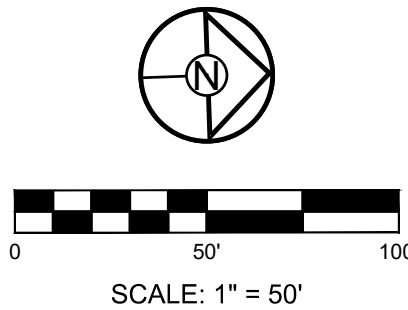
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ELEV. 997.045

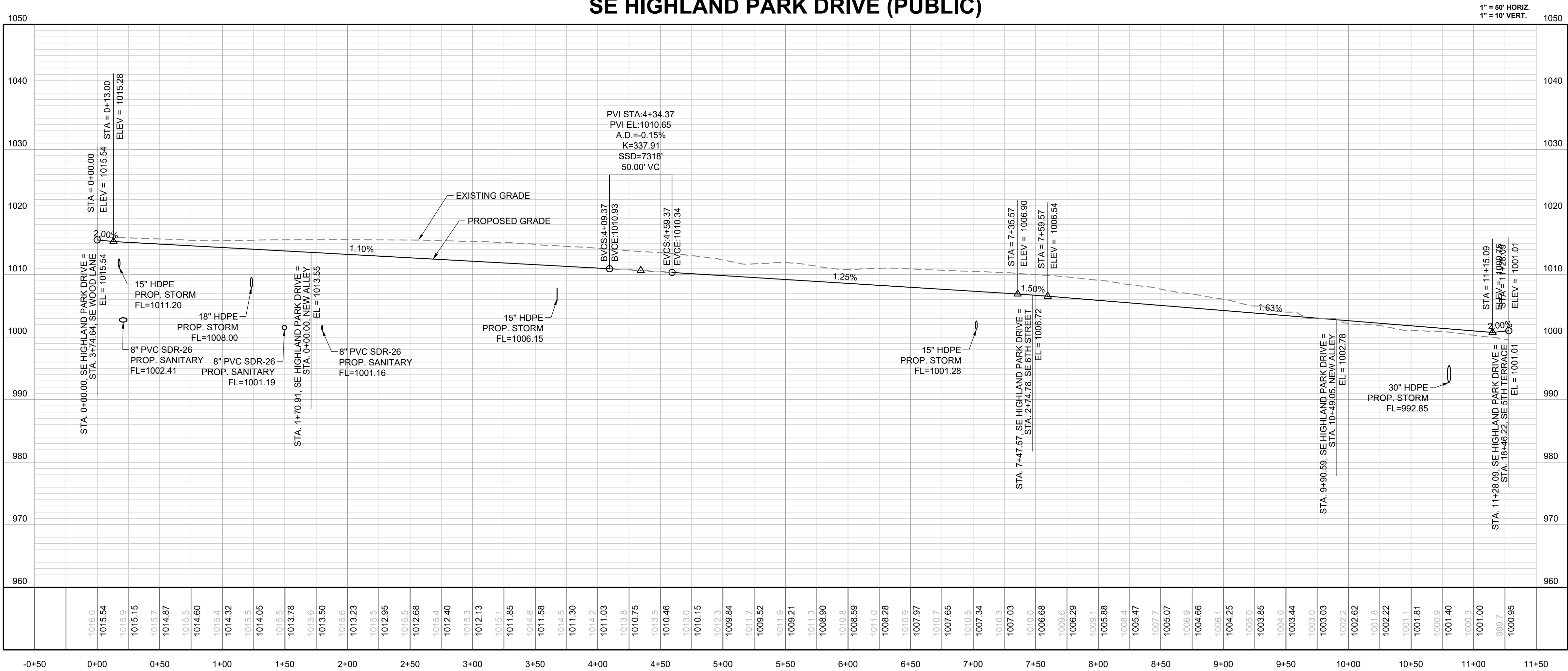
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SE HIGHLAND PARK DRIVE (PUBLIC)



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PREPARED BY:

09.18.2023

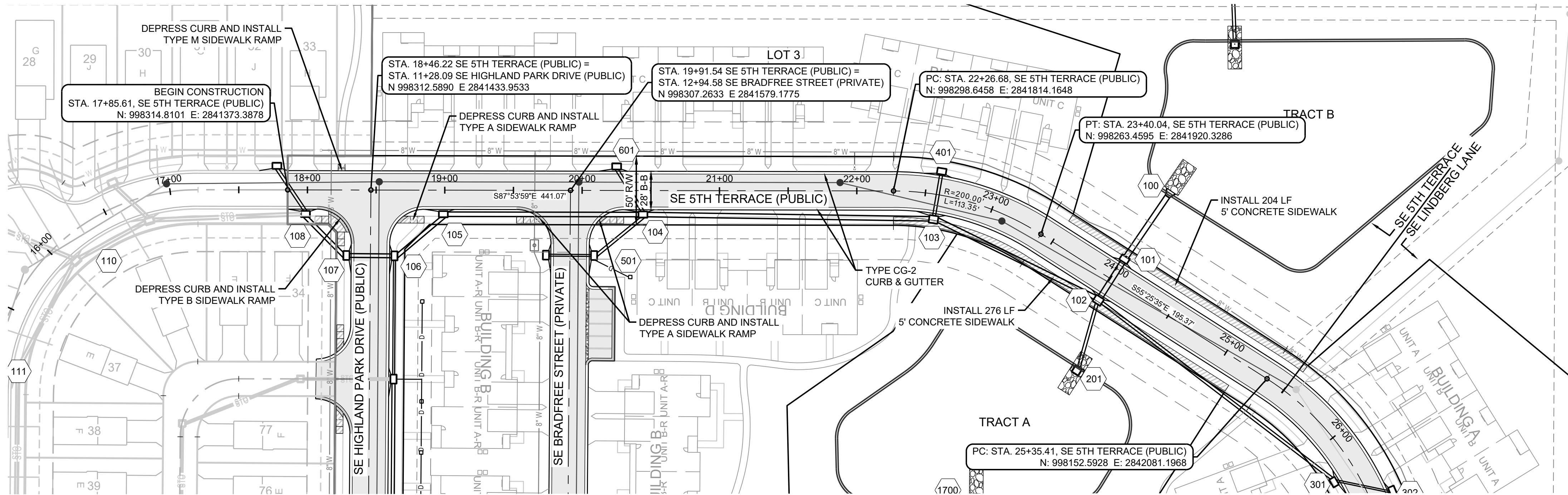
SCHLAGEL & ASSOCIATES, P.A.

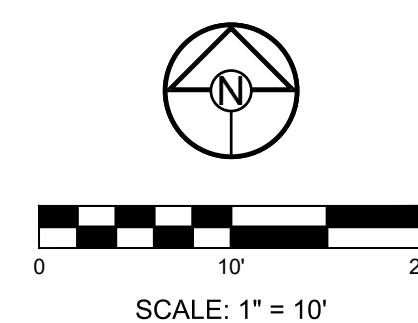
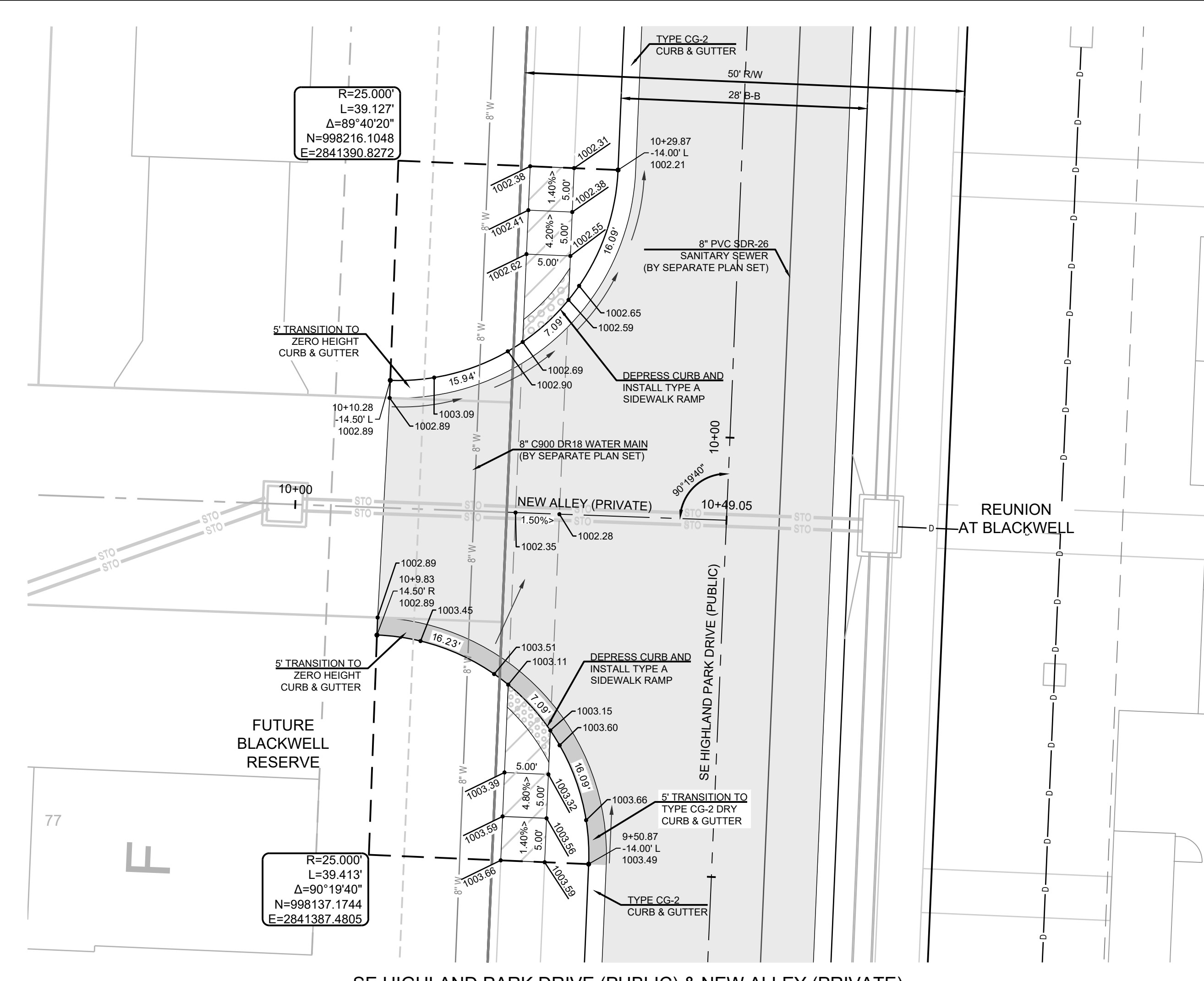
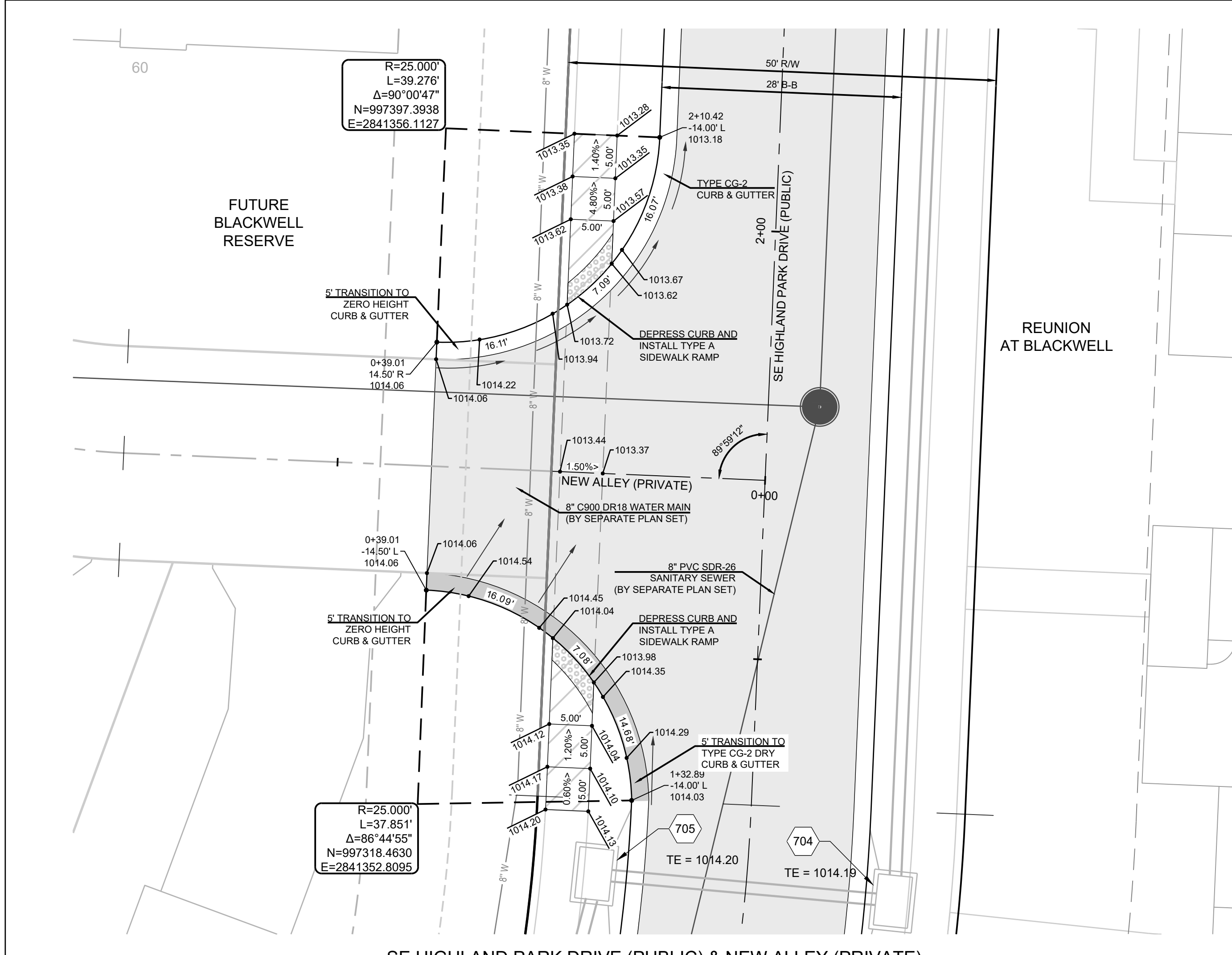
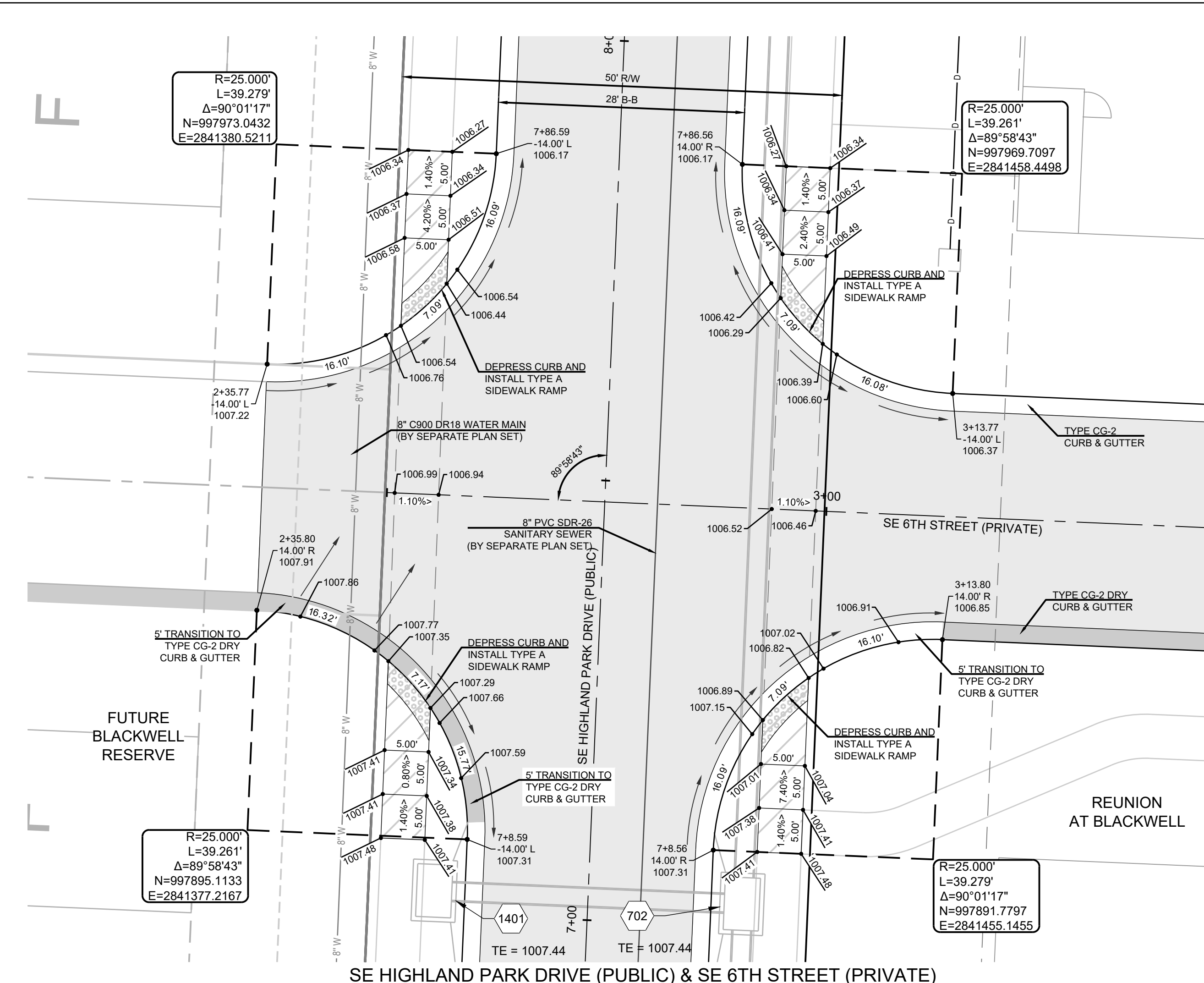
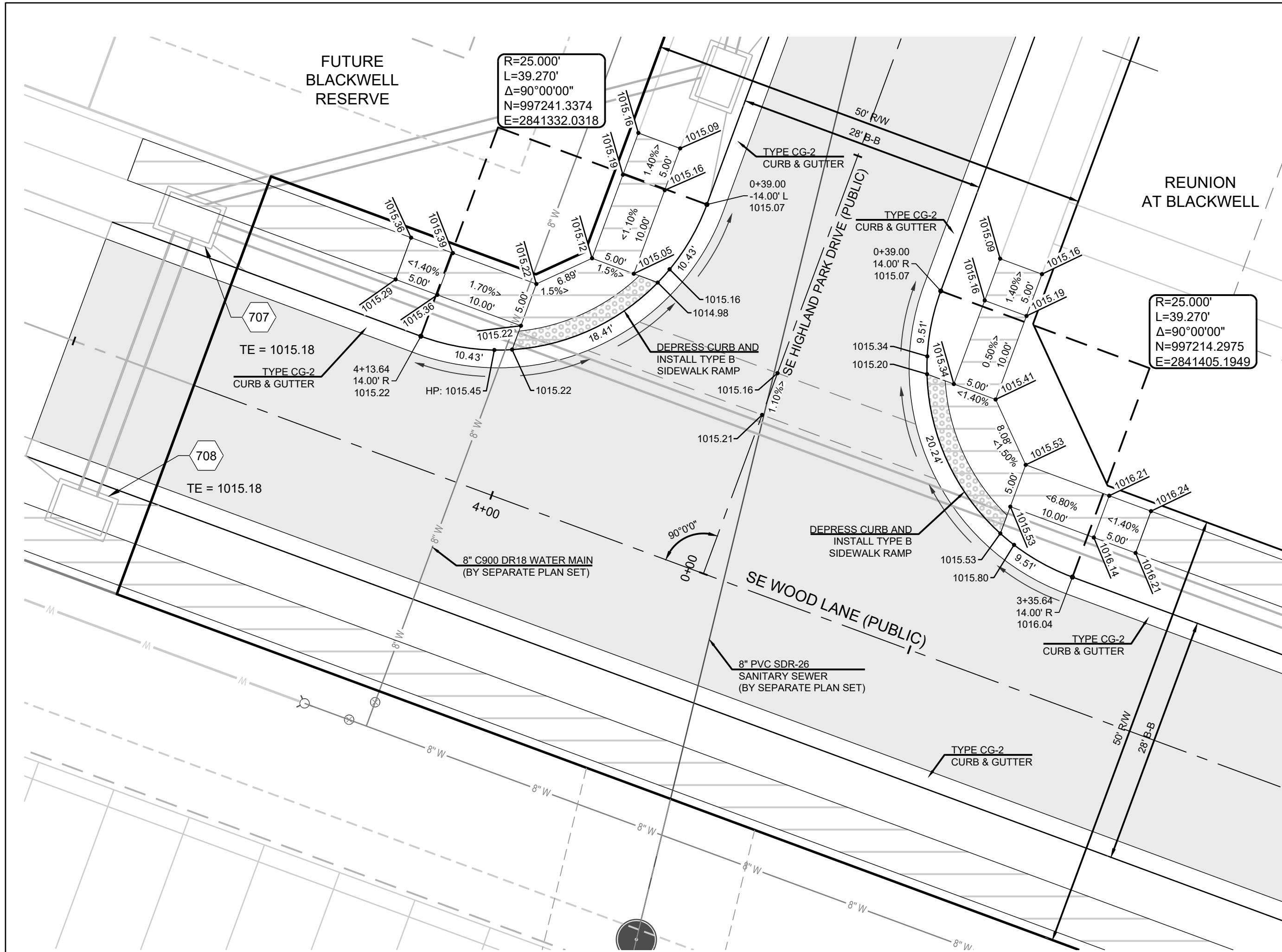
REUNION AT BLACKWELL
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SE SHENANDOAH DRIVE LEE'S SUMMIT, MO

REVISION DATE	DESCRIPTION
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09/06/2023	PER CITY COMMENTS
09/06/2023	DATE PREPARED
09/06/2023	PROJ. NUMBER: 22-597

SE HIGHLAND PARK DRIVE - PLAN & PROFILE

SHEET
12





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PREPARED BY:

09.18.2023

SCHLAGEL & ASSOCIATES, P.A.

REUNION AT BLACKWELL
PUBLIC STREET AND STORM SEWER PLANS
SE SHENANDOAH DRIVE LEE'S SUMMIT, MO

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DRAWN BY: TRC

CHECKED BY: MAB

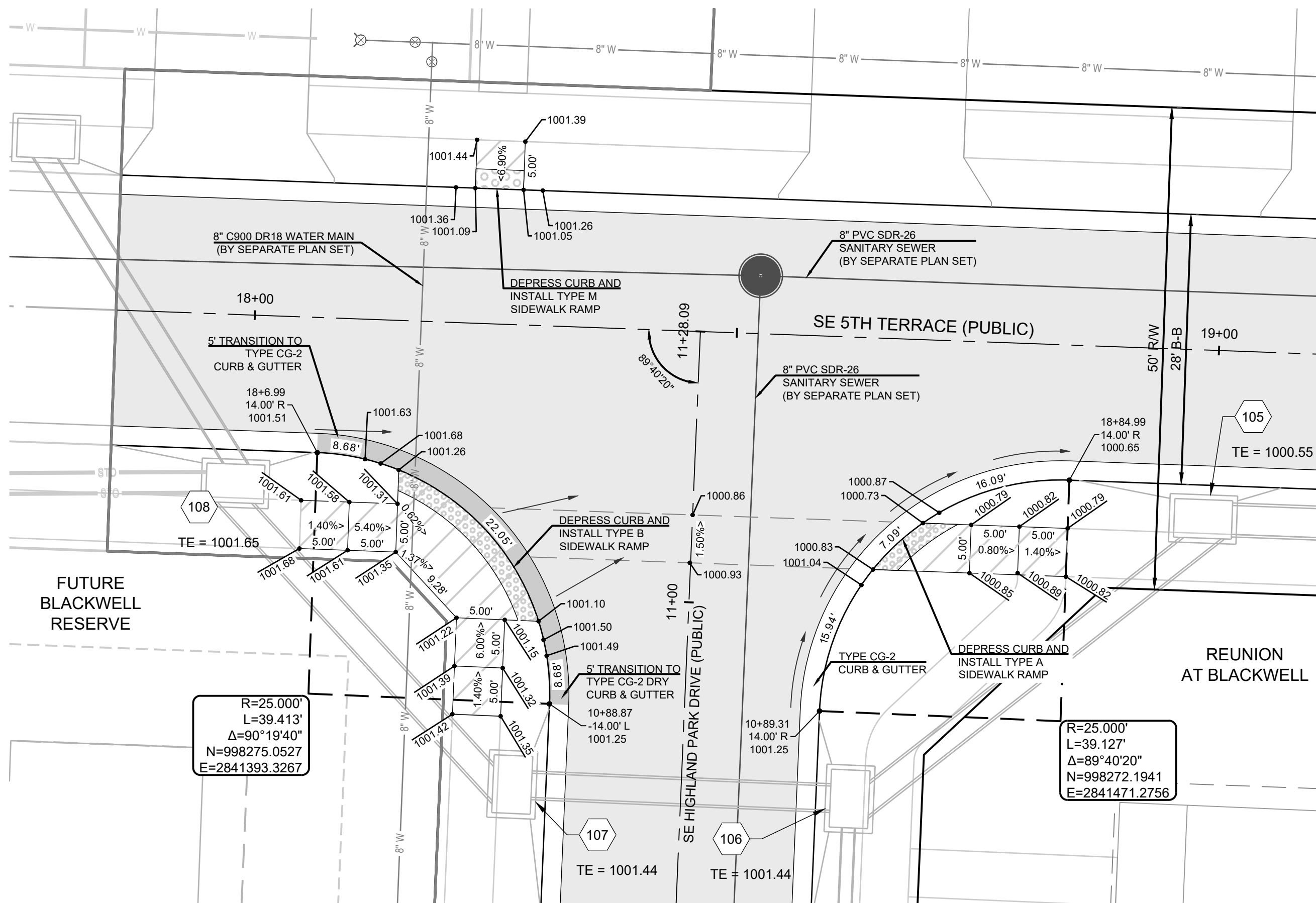
DATE PREPARED: 03/03/2023

PROJ. NUMBER: 22-597

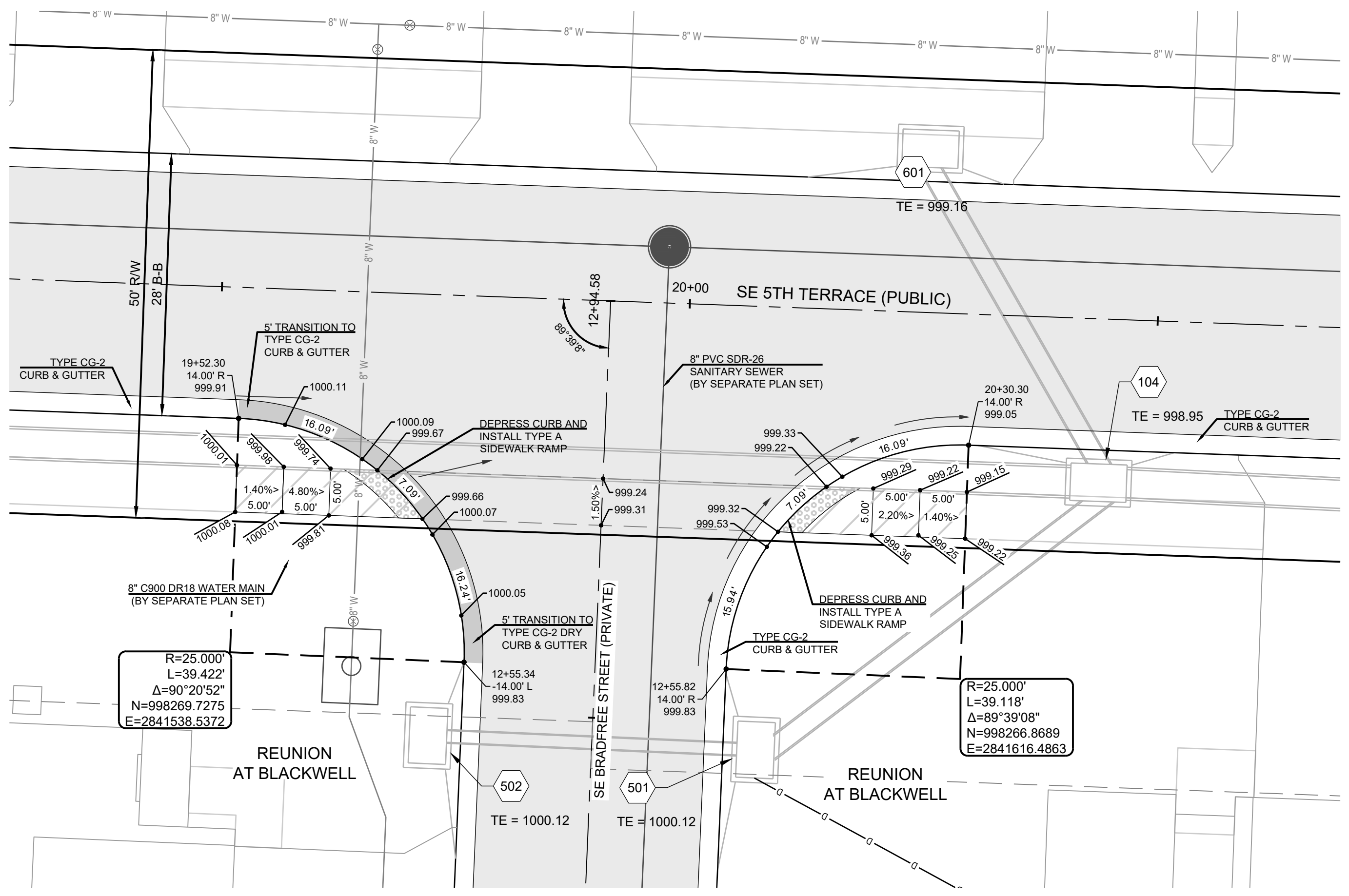
INTERSECTION DETAILS

SHEET

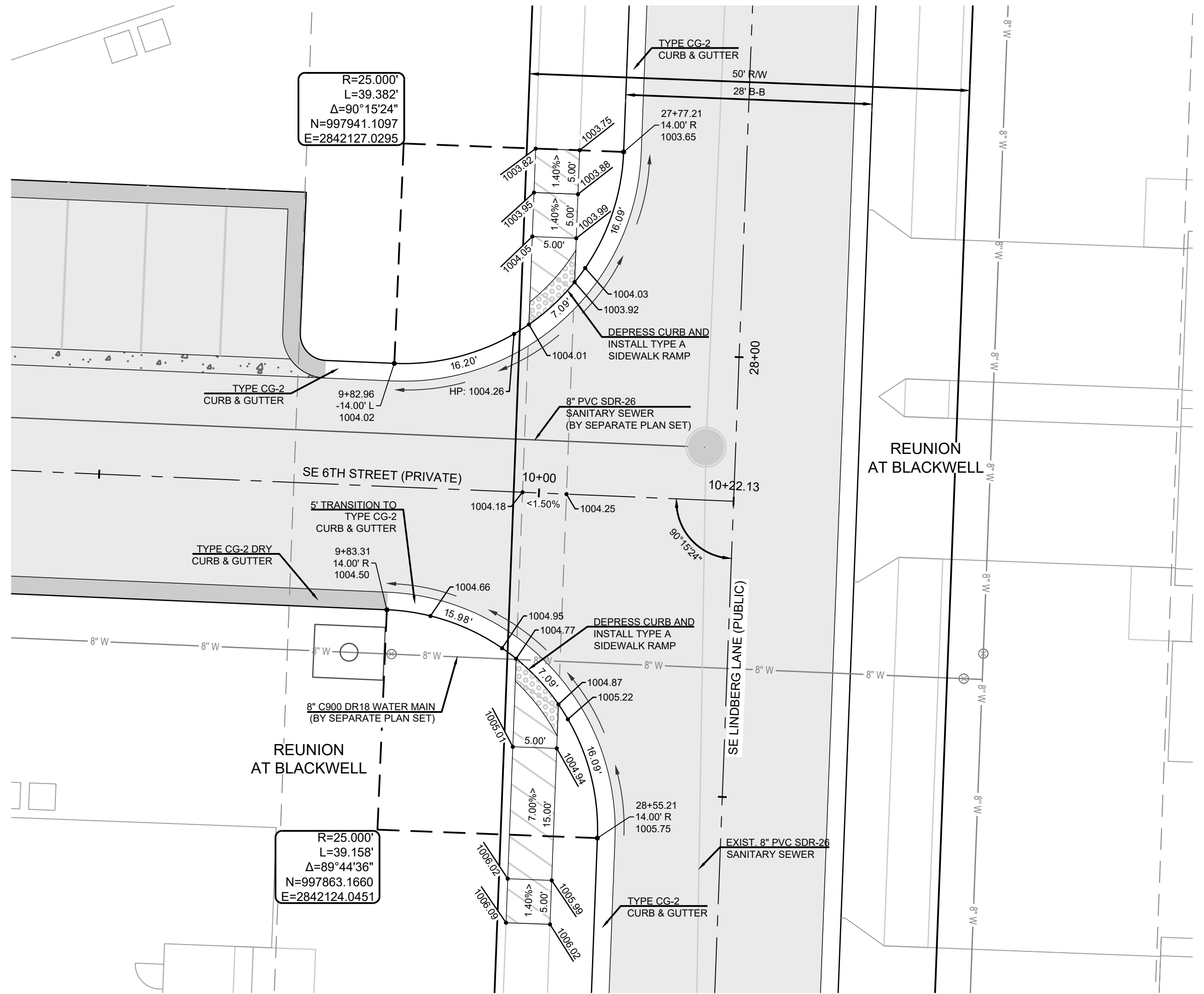
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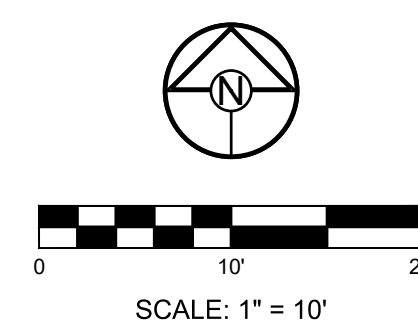
SE 5TH TERRACE (PUBLIC) & SE HIGHLAND PARK DRIVE (PUBLIC)



SE 5TH TERRACE (PUBLIC) & SE BRADFREE STREET (PRIVATE)



SE LINDBERG LANE (PUBLIC) & SE 6TH STREET (PRIVATE)



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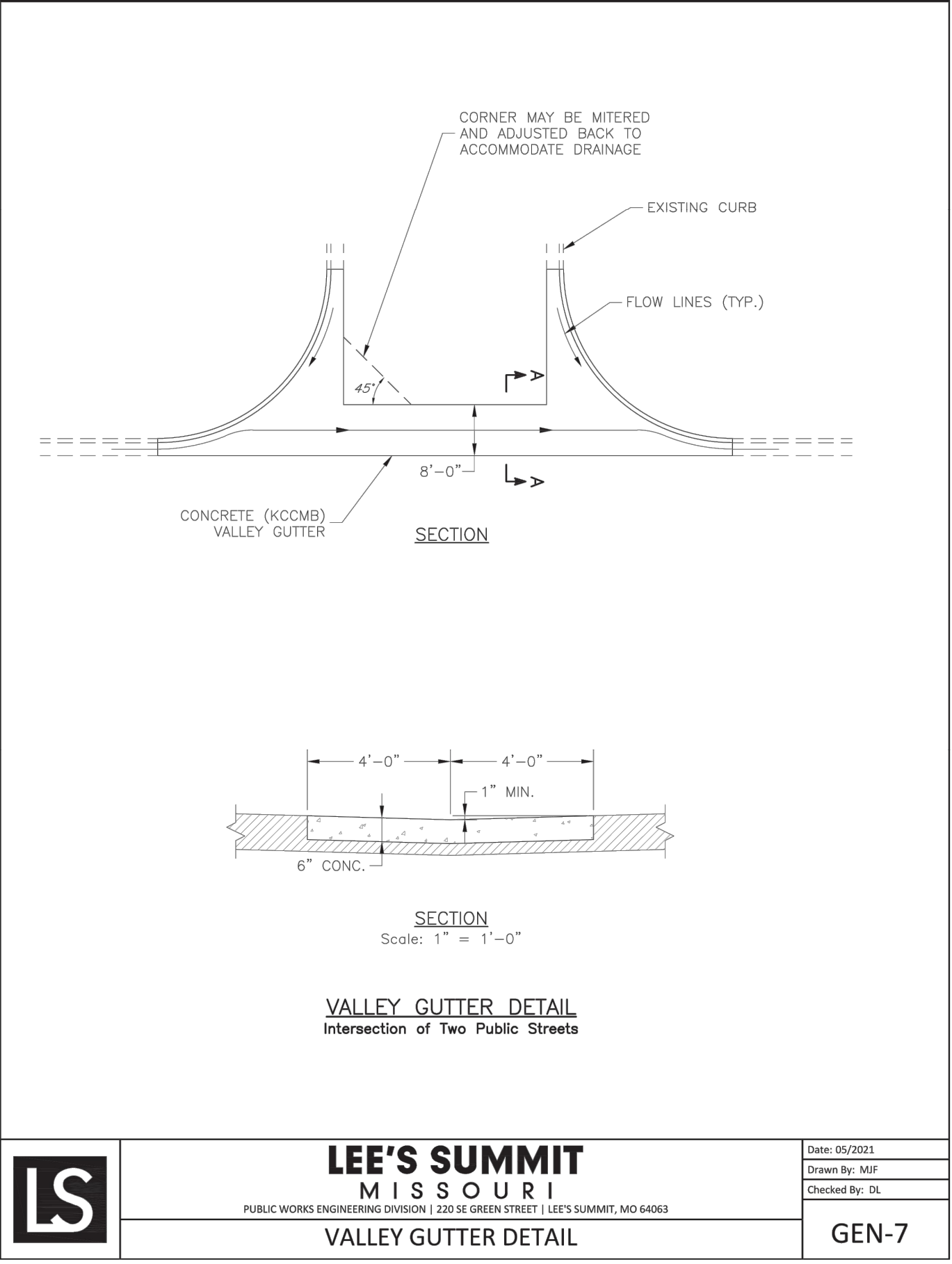
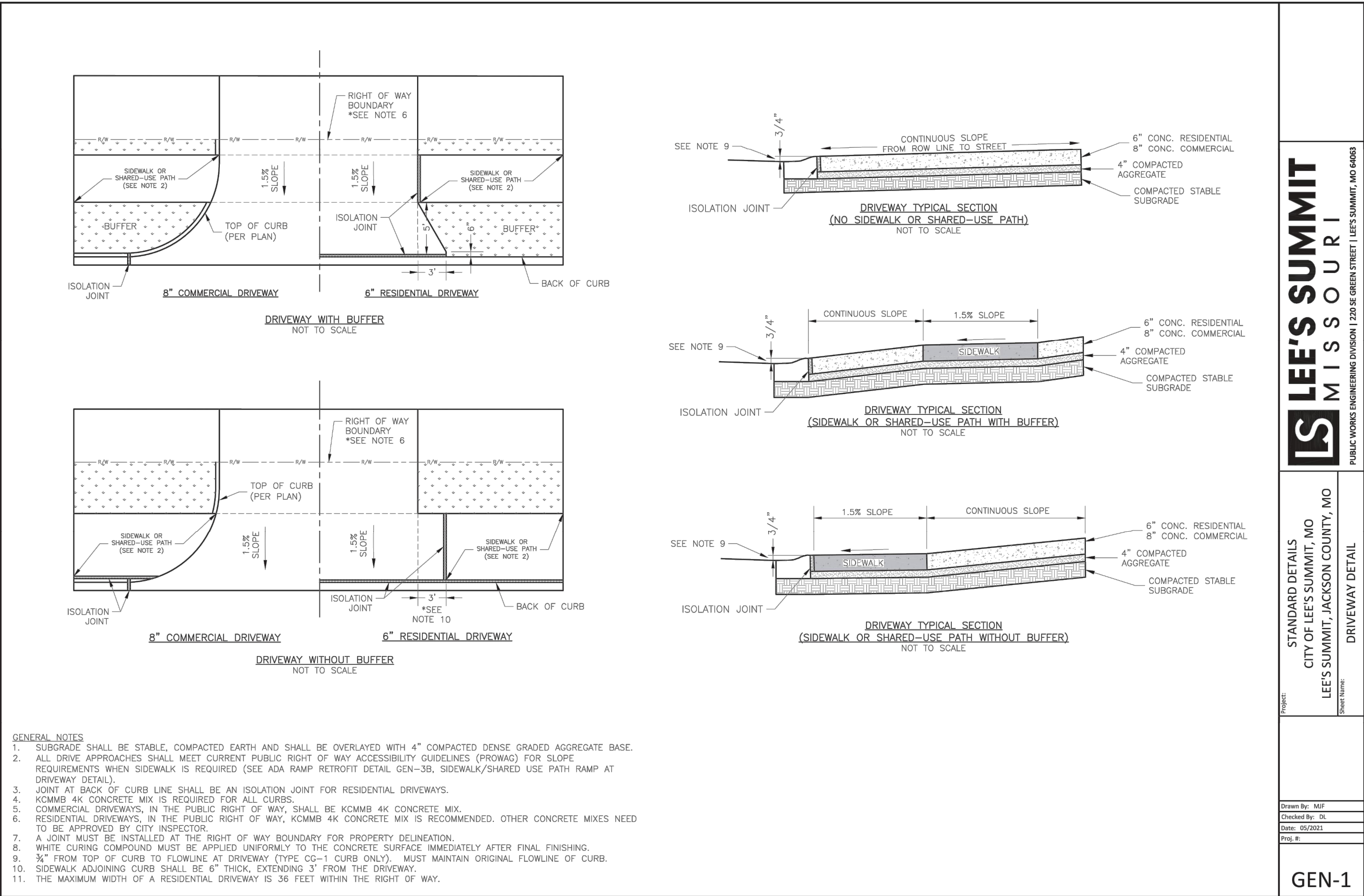
REUNION AT BLACKWELL
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22-597	

INTERSECTION
 DETAILS

SHEET

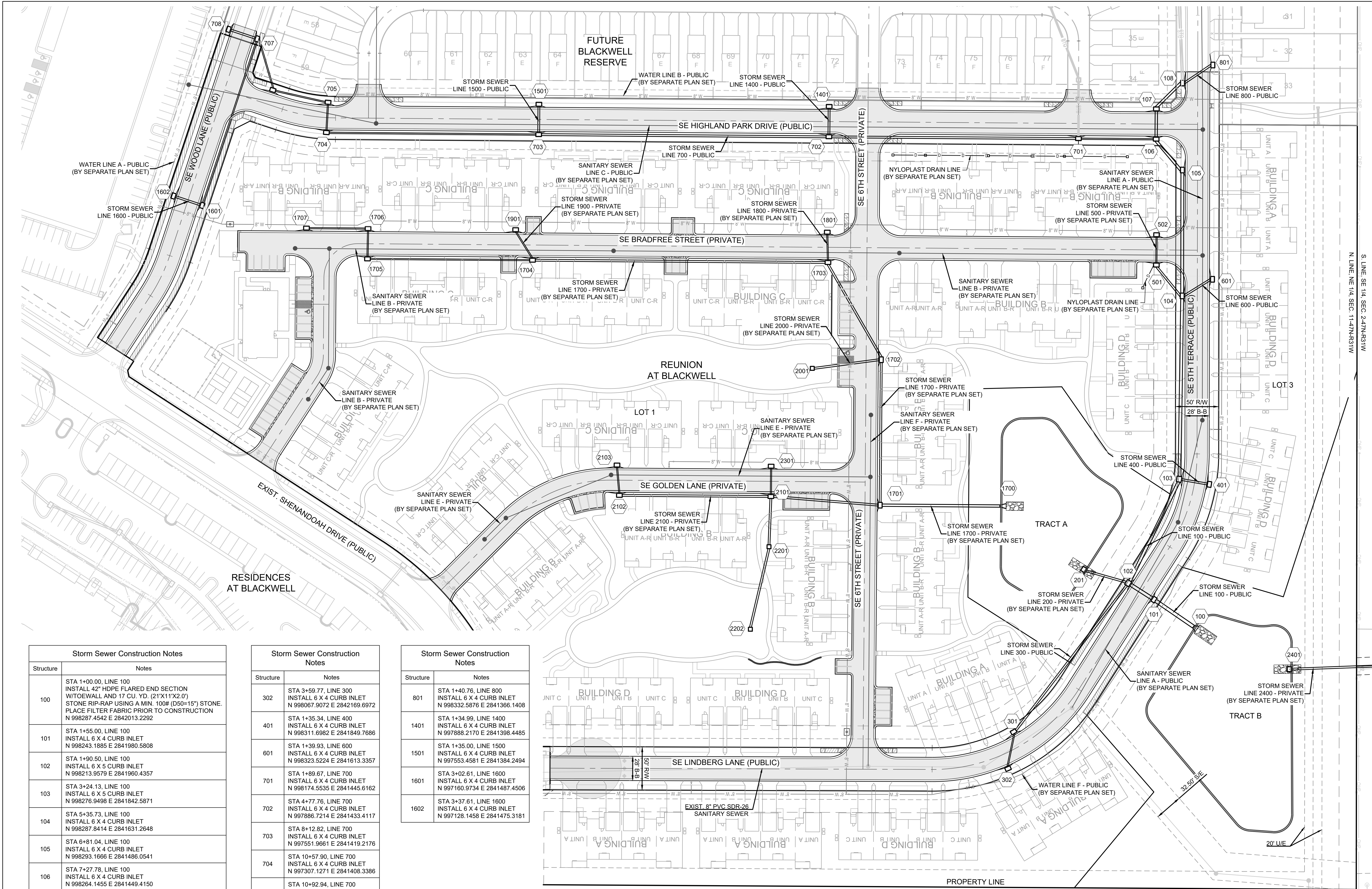
16



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

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9	
10	

DRAWN BY:	TRC
CHECKED BY:	MAB
DATE PREPARED:	03/03/2023
PROJ. NUMBER:	22-597



Storm Sewer Construction Notes	
Structure	Notes
100	STA 1+00.00, LINE 100 INSTALL 42" HDPE FLARED END SECTION W/TOEWALL AND 17 CU. YD. (21'X11'X2.0') STONE RIP-RAP USING A MIN. 100# (D50=15") STONE. PLACE FILTER FABRIC PRIOR TO CONSTRUCTION N 998287.4542 E 2842013.2292
101	STA 1+55.00, LINE 100 INSTALL 6 X 4 CURB INLET N 998243.1885 E 2841980.5808
102	STA 1+90.50, LINE 100 INSTALL 6 X 5 CURB INLET N 998213.9579 E 2841960.4357
103	STA 3+24.13, LINE 100 INSTALL 6 X 5 CURB INLET N 998276.9498 E 2841842.5871
104	STA 5+35.73, LINE 100 INSTALL 6 X 4 CURB INLET N 998287.8414 E 2841631.2648
105	STA 6+81.04, LINE 100 INSTALL 6 X 4 CURB INLET N 998293.1666 E 2841486.0541
106	STA 7+27.78, LINE 100 INSTALL 6 X 4 CURB INLET N 998264.1455 E 2841449.4150
107	STA 7+62.78, LINE 100 INSTALL 6 X 4 CURB INLET N 998265.6407 E 2841414.4499
108	STA 8+05.18, LINE 100 INSTALL 6 X 4 CURB INLET N 998296.8454 E 2841385.7377
301	STA 3+16.69, LINE 300 INSTALL 6 X 4 CURB INLET N 998075.7572 E 2842127.3361

Storm Sewer Construction Notes	
Structure	Notes
302	STA 3+59.77, LINE 300 INSTALL 6 X 4 CURB INLET N 998067.9072 E 2842169.6972
401	STA 1+35.34, LINE 400 INSTALL 6 X 4 CURB INLET N 998311.6982 E 2841849.7686
601	STA 1+39.93, LINE 600 INSTALL 6 X 4 CURB INLET N 998323.5224 E 2841613.3357
701	STA 1+89.67, LINE 700 INSTALL 6 X 4 CURB INLET N 998174.5535 E 2841445.6162
702	STA 4+77.76, LINE 700 INSTALL 6 X 4 CURB INLET N 997886.7214 E 2841433.4117
703	STA 8+12.82, LINE 700 INSTALL 6 X 4 CURB INLET N 997551.9661 E 2841419.2176
704	STA 10+57.90, LINE 700 INSTALL 6 X 4 CURB INLET N 997307.1271 E 2841408.3386
705	STA 10+92.94, LINE 700 INSTALL 6 X 4 CURB INLET N 997310.2911 E 2841373.4458
707	STA 12+20.00, LINE 700 INSTALL 6 X 4 CURB INLET N 997231.2182 E 2841297.4067
708	STA 12+55.01, LINE 700 INSTALL 6 X 4 CURB INLET N 997198.3835 E 2841285.2728

Storm Sewer Construction Notes	
Structure	Notes
801	STA 1+40.76, LINE 800 INSTALL 6 X 4 CURB INLET N 998332.5876 E 2841366.1408
1401	STA 1+34.99, LINE 1400 INSTALL 6 X 4 CURB INLET N 997888.2170 E 2841398.4485
1501	STA 1+35.00, LINE 1500 INSTALL 6 X 4 CURB INLET N 997553.4581 E 2841384.2494
1601	STA 3+02.61, LINE 1600 INSTALL 6 X 4 CURB INLET N 997160.9734 E 2841487.4506
1602	STA 3+37.61, LINE 1600 INSTALL 6 X 4 CURB INLET N 997128.1458 E 2841475.3181

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PREPARED BY:

STATE OF MISSOURI

MARK ALLEN BREUER

NUMBER PE-2009007268

PROFESSIONAL ENGINEER

09.18.2023

SCHLAGEL & ASSOCIATES, P.A.

REUNION AT BLACKWELL

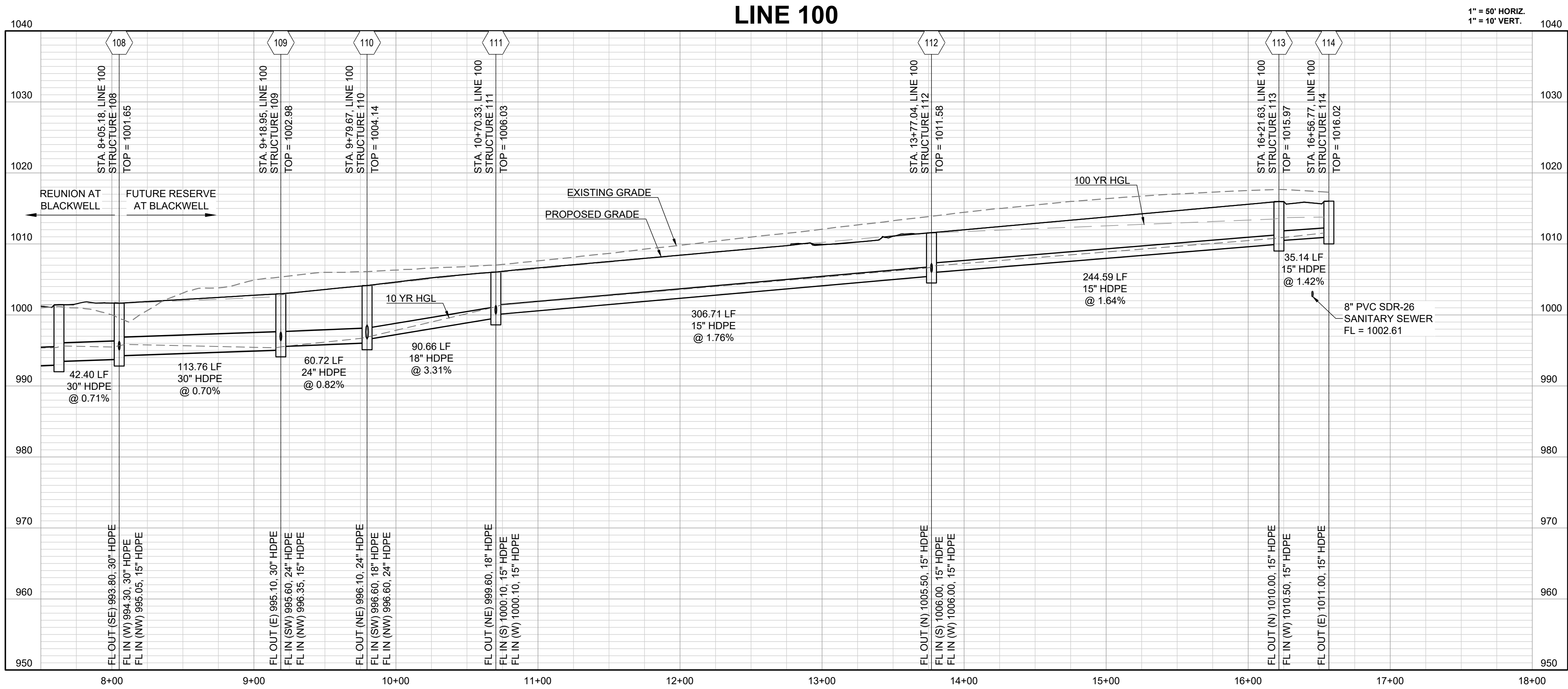
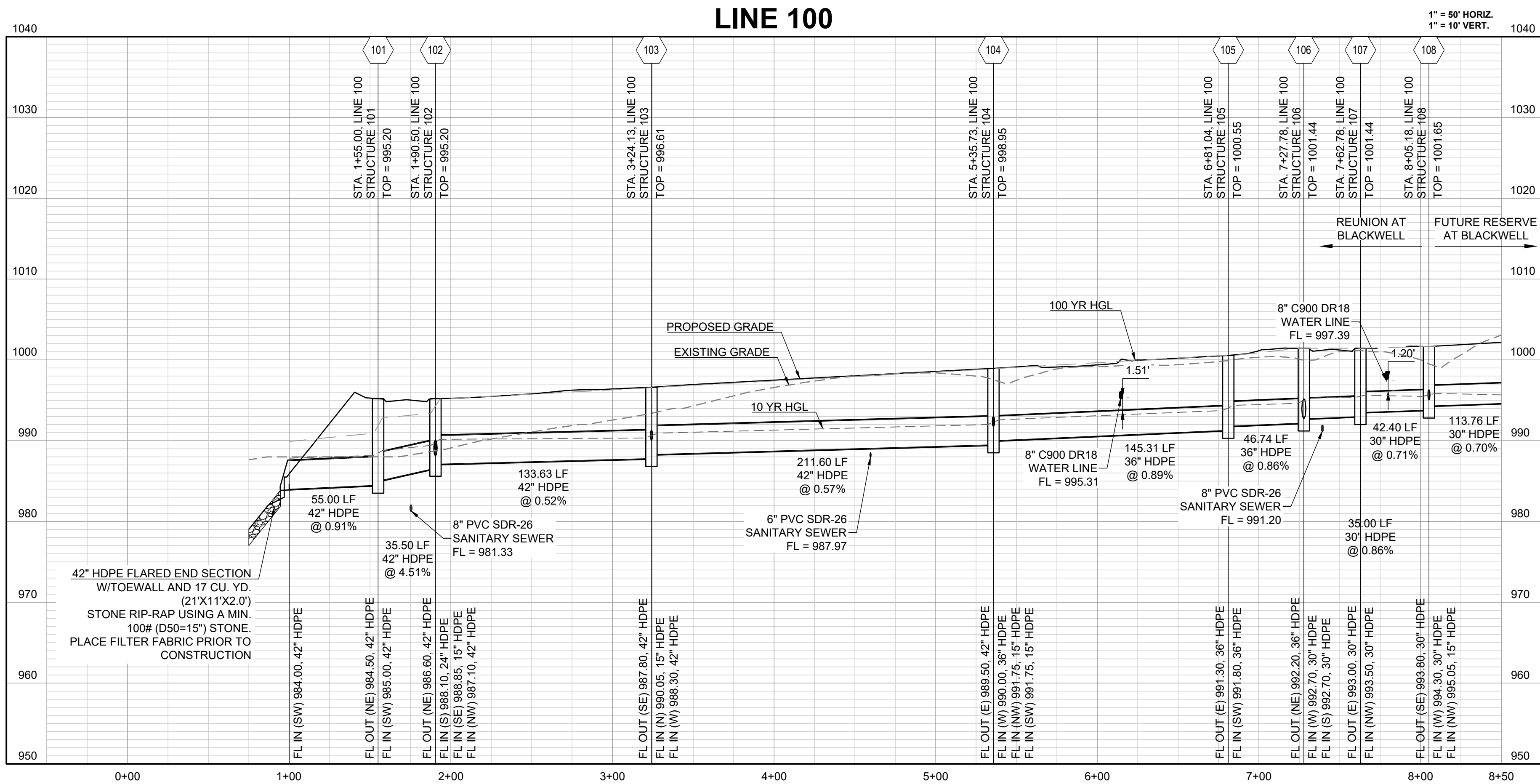
PUBLIC STREET AND STORM SEWER PLANS

SE SHENANDOAH DRIVE LEE'S SUMMIT, MO

STORM PLAN		
SHEET		
19		
DRAWN BY:	REVISION DATE	DESCRIPTION
TRC	05/05/2023	PER CITY COMMENTS
	06/02/2023	PER CITY COMMENTS
CHECKED BY:	06/27/2023	PER CITY COMMENTS
MAB	06/06/2023	PER CITY COMMENTS
DATE PREPARED:		
03/03/2023		
PROJ. NUMBER:		
22-097		

Design Storm:	100																												
"K" Value:	1.25																												
"F" Factor:	1.00																												
Runoff Calculations															Pipe Properties														
In#	Area (acres)	"C" Value	Cumul. Area (acres)	Cumul. Cx/A	Tc	Intensity	Runoff To Inlet	Cumul. Runoff	Pipe Cap.	Pipe Vel.	Up Piped Inlet 1	Up Piped Inlet 2	Up Area (acres)	Up Cx/A	Up Inlet	Down Inlet	Pipe Type	"n" Value	Pipe Size	Pipe Length	Slope %	Drop In Inlet	FL Up	FL Down	Inlet Top	HGL Elev.			
LINE 100																													
101	0.61	0.66	20.40	13.46	8.6	9.01	4.53	151.62	103.97	10.81			0.00	0.00	101	100	HDPE	0.012	42	55.00	0.91	0.50	DS TAILWATER @ STR #100				989.91		
102	0.40	0.66	19.79	13.06	8.6	9.02	2.98	147.21	231.47	24.06	201	301	3.52	2.32	102	101	HDPE	0.012	42	35.50	4.51	0.50	984.50	984.00	995.20	992.90			
103	0.37	0.66	15.87	10.47	8.3	9.10	2.78	119.20	78.60	8.17	401		0.42	0.28	103	102	HDPE	0.012	42	133.63	0.52	0.50	987.80	987.10	996.61	997.99			
104	0.22	0.66	15.08	9.95	7.9	9.24	1.68	114.95	82.29	8.55	501	601	1.57	1.04	104	103	HDPE	0.012	42	211.60	0.57	0.50	989.50	988.30	998.95	1000.07			
105	0.11	0.66	13.29	8.77	7.7	9.32	0.85	102.23	68.17	9.64			0.00	0.00	105	104	HDPE	0.012	36	145.31	0.89	0.50	991.30	990.00	1000.55	1003.49			
106	0.18	0.66	13.18	8.70	7.6	9.35	1.39	101.69	67.01	9.48	701		6.73	4.44	106	105	HDPE	0.012	36	46.74	0.86	0.50	992.20	991.80	1001.44	1003.08			
107	0.64	0.66	6.27	4.14	6.9	9.58	5.06	49.53	41.21	8.39			0.00	0.00	107	106	HDPE	0.012	30	35.00	0.86	0.50	993.00	992.70	1001.44	1002.67			
108	0.18	0.66	5.63	3.72	6.8	9.61	1.43	44.63	37.44	7.63	801		0.26	0.17	108	107	HDPE	0.012	30	42.40	0.71	0.50	993.80	993.50	1001.65	1002.51			
109	0.12	0.66	5.19	3.43	6.6	9.70	0.96	41.53	37.18	7.57	901		0.66	0.44	109	108	HDPE	0.012	30	113.76	0.70	0.50	995.10	994.50	1002.98	1003.20			
110	0.11	0.66	4.41	2.91	6.4	9.75	0.89	35.48	22.19	7.06	1001		1.50	0.99	110	109	HDPE	0.012	24	60.72	0.82	0.50	996.09	995.60	1004.14	1005.25			
111	0.53	0.66	2.80	1.85	6.3	9.80	4.29	22.64	20.70	11.72	1101		0.65	0.43	111	110	HDPE	0.012	18	90.66	3.31	0.50	999.59	996.59	1003.83	1009.09			
112	0.42	0.66	1.62	1.07	5.6	10.06	3.49	13.45	9.28	7.57	1201		0.47	0.31	112	111	HDPE	0.012	15	306.71	1.76	0.50	1005.49	1000.09	1011.58	1018.29			
113	0.34	0.66	0.73	0.48	5.1	10.29	2.89	6.20	8.96	7.30			0.00	0.00	113	112	HDPE	0.012	15	244.59	1.64	0.50	1010.00	1005.99	1015.97	1013.70			
114	0.39	0.66	0.39	0.26	5.0	10.32	3.32	3.32	8.34	6.80			0.00	0.00	114	113	HDPE	0.012	15	35.14	1.42	N/A	1011.00	1010.50	1016.02	1013.84			
LINE 200																													
201	2.31	0.66	2.31	1.52	5.0	10.32	19.67	19.67	41.95	13.35			0.00	0.00	201	102	HDPE	0.012	24	Drop in Inlet 102		1.50	N/A	989.80	988.10	993.70	995.88		
LINE 300																													
301	0.52	0.66	1.21	0.80	5.1	10.27	4.41	10.26	11.31	9.21			0.00	0.00	301	102	HDPE	0.012	15	Drop in Inlet 102		2.25	0.50	994.51	988.85	999.68	1000.40		
302	0.69	0.66	0.69	0.46	5.0	10.32	5.88	5.88	7.54	6.14			0.00	0.00	302	301	HDPE	0.012	15	216.69	2.61	N/A	995.51	995.01	1000.36	1000.16			
LINE 400																													
401	0.42	0.66	0.42	0.28	5.0	10.32	3.58	3.58	11.46	9.34			0.00	0.00	401	103	HDPE	0.012	15	Drop in Inlet 103		2.25	N/A	991.00	990.05	996.59	996.77		
LINE 500																													
501	0.43	0.66	1.14	0.75	5.1	10.30	3.65	9.68	13.59	11.07			0.00	0.00	501	104	HDPE	0.012	15	Drop in Inlet 104		2.25	0.50	993.50	991.75	1000.12	1000.32		
502	0.71	0.66	0.71	0.47	5.0	10.32	6.05	6.05	11.83	9.64			0.00	0.00	502	501	HDPE	0.012	15	46.43	3.77	N/A	995.00	994.00	1000.12	1000.57			
LINE 600																													
601	0.43	0.66	0.43	0.28	5.0	10.32	3.66	3.66	12.38	10.09			0.00	0.00	601	104	HDPE	0.012	15	Drop in Inlet 104		2.25	N/A	993.00	991.75	999.16	999.13		
LINE 700																													
701	0.32	0.66	6.73	4.44	7.6	9.35	2.47	51.92	39.24	7.99	1301		2.26	1.49	701	106	HDPE	0.012	30	Drop in Inlet 106		0.50	0.50	993.40	992.70	1002.90	1003.54		
702	0.58	0.66	4.15	2.74	7.1	9.51	4.55	32.54	34.14	10.87	1401		0.65	0.43	702	701	HDPE	0.012	24	89.67	0.78	0.50	999.49	993.90	1007.44	1008.82			
703	0.46	0.66	2.92	1.93	6.4	9.78	3.70	23.50	14.30	8.09	1501		0.85	0.56	703	702	HDPE	0.012	18	335.06	1.58	0.50	1005.28	1001.51	1011.51	1023.11			
704	0.26	0.66	1.61	1.06	5.7	10.06	2.16	13.36	9.17	5.19			0.00	0.00	704	703	HDPE	0.012	18	245.08	0.65	0.50	1007.37	1005.78	1014.19	1015.33			
705	0.07	0.66	1.35	0.89	5.5	10.10	0.58	11.25	8.59	4.86			0.00	0.00	705	704	HDPE	0.012	18	35.04	0.57	0.50	1008.07	1007.87	1014.20	1014.85			
706	0.03	0.66	1.28	0.84	5.3	10.18	0.25	10.75	6.71	5.47			0.00	0.00	706	705	HDPE	0.012	15	65.36	0.92	0.50	1009.17	1008.57	1014.96	1016.34			
707	0.49	0.66	1.25	0.83	5.1	10.27	4.15	10.59	6.30	5.13	1601		0.26	0.17	707	706	HDPE	0.012	15	61.70	0.81	0.50	1010.17	1009.67	1015.18	1016.95			
708	0.50	0.66	0.50	0.33	5.0	10.32	4.26	4.26	6.49	5.29			0.00	0.00	708	707	HDPE	0.012	15	35.00	0.86	N/A	1010.97	1010.67	1015.18	1015.40			
LINE 800																													
801	0.26	0.66	0.26	0.17	5.0	10.32	2.21	2.21	15.30	12.47			0.00	0.00	801	108	HDPE	0.012	15	Drop in Inlet 108		1.25	N/A	997.00	995.05	1001.88	1001.72		
LINE 900																													
901	0.66	0.66	0.66	0.44	5.0	10.32	5.62	5.62	15.73	12.81			0.00	0.00	901	109	HDPE	0.012	15	Drop in Inlet 109		1.25	N/A	998.30	996.35	1003.20	1003.39		
LINE 1000																													
1001	1.50	0.66	1.50	0.99	5.0	10.32	12.77	12.77	19.30	6.14			0.00	0.00	1001	110	HDPE	0.012	24	Drop in Inlet 110		0.50	N/A	997.90	996.59	1002.00	1004.84		
LINE 1100																													
1101	0.65	0.66	0.65	0.43	5.0	10.32	5.54	5.54	11.22	9.14			0.00	0.00	1101	111	HDPE	0.012	15	Drop in Inlet 111		0.50	N/A	1001.00	1000.09	1006.01	1006.41		
LINE 1200																													
1201	0.47	0.66	0.47	0.31	5.0	10.32	4.00	4.00	11.69	9.53			0.00	0.00	1201	112	HDPE	0.012	15	Drop in Inlet 112		0.50	N/A	1006.99	1005.99	1011.71	1011.78		
LINE 1300																													
1301	0.30	0.66	2.26	1.49	6.2	9.86	2.44	18.39	14.48	8.20			0.00	0.00	1301	701	HDPE	0.012	18	Drop in Inlet 701		1.00	0.50	995.49	994.40	1002.83	1005.51		
1302	0.80	0.66	1.96	1.29	6.0	9.92	6.54	16.03	13.26	10.80			0.00	0.00	1302	1301	HDPE	0.012	15	67.73	1.62	0.50	999.30	995.94	1004.68	1008.99			
1303	0.58	0.66	1.16	0.77	5.4	10.14	4.85	9.71	9.67	7.88			0.00	0.00	1303	1302	HDPE	0.012	15	92.02	0.59	0.50	1004.99	999.80	1009.51	1010.39			
1304	0.58	0.66	0.58	0.38	5.0	10.32	4.94	4.94	9.26	7.54			0.00	0.00	1304	1303	HDPE	0.012	15	271.61	1.91	0.50	1008.99	1005.49	1013.05	1010.64			
LINE 1400																													
1401	0.65	0.66	0.65	0.43	5.0	10.32	5.54	5.54	16.94	13.80			0.00	0.00	1401	702	HDPE	0.012	15	Drop in Inlet 702		0.75	N/A	1002.29	1000.24	1007.44	1007.82		
LINE 1500																													
1501	0.85	0.66	0.85	0.56	5.0	10.32	7.24	7.24	9.90	8.06			0.00	0.00	1501	703	HDPE	0.012	15	Drop in Inlet 703		0.50	N/A	1006.48	1005.78	1011.51	1012.16		
LINE 1600																													
1601	0.13	0.66	0.26	0.17	5.1	10.27	1.10	2.20	6.02	4.91			0.00	0.00	1601	707	HDPE	0.012	15	Drop in Inlet 707		0.50	0.50	1012.17	1010.67	1017.15	1015.40		
1602	0.13	0.66	0.13	0.09	5.0	10.32	1.11	1.11	5.28	4.31			0.00	0.00	1602	1601	HDPE	0.012	15	202.61	0.74	N/A	1012.87	1012.67	1017.15	1015.42			
LINE 1700																													
1701	1.32	0.66	9.77	6.45	7.1	9.52	10.37	76.74	92.48	9.61	2101		2.81	1.85	1701	1700	HDPE	0.012	42	Drop in Inlet 1700		0.50	1.00	990.99	990.00	1000.68	996.44		
1702	0.27	0.66	5.64	3.72	6.9	9.59	2.14	44.63	68.55	13.97	2001		2.17	1.43	1702	1701	HDPE	0.012	30	138.00	0.72	1.00	995.99	991.99	1003.06	998.94			
1703	0.53	0.66	3.20	2.11	6.7	9.67	4.23	25.54	16.84	9.53	1801		0.55	0.36	1703	1702	HDPE	0.012	18	128.04	2.19	1.00	999.79	996.99	1006.01	1007.01			
1704	0.28	0.66	2.12	1.40	5.8	9.99	2.31	17.48	11.83	6.69	1901		0.26	0.17	1704	1703	HDPE	0.012	18	341.08	1.08	0.50	1003.98	1000.29	1010.39	1014.82			
1705	0.39	0.66	1.58	1.04	5.3	10.22	3.29	13.32	10.11	5.72			0.00	0.00	1705	1704	HDPE	0.012	18	190.50	0.79	0.50	1005.98	1000.48	1012.67	1013.44			
1706	0.85	0.66	1.19	0.79	5.2	10.25	7.19	10.9																					

RUNOFF CALCULATIONS												INLET DESIGN										GUTTER DESIGN			
INLET #	COMPOSITE "C"	AREA	INLET Tc	INTENSITY	RUNOFF	UPSTREAM INLET	UPSTREAM INLET	UPSTREAM INLET	UPSTREAM INLET	BYPASS FROM UPSTREAM INLET	TOTAL RUNOFF	STREET GRADE	CROSS SLOPE	CURB TYPE	INLET LENGTH	EFFECTIVE LENGTH 80% CAP	INLET INTERCEPTION	BYPASS TO DOWNSTREAM INLET	STREET GRADE	CROSS SLOPE	DEPTH AT CURB	SPREAD OF FLOW			
LINE 1																									
101	0.66	0.61	5	7.35	2.96	302	401			1.31	4.27	SUMP	2.00	A	6	4.8	13.44	0.00	SUMP	2.00	< 0.21	< 12			
102	0.66	0.40	5	7.35	1.94	103	301			0.82	2.76	SUMP	2.00	A	6	4.8	13.44	0.00	SUMP	2.00	< 0.21	< 12			
103	0.66	0.37	5	7.35	1.79	104				0.23	2.03	1.20	2.00	A	6	6	1.81	0.22	1.20	2.00	0.18	9.27			
104	0.66	0.22	5	7.35	1.07	501	502			1.02	2.08	1.20	2.00	A	6	6	1.85	0.23	1.20	2.00	0.18	9.36			
105	0.66	0.11	5	7.35	0.53	106	107	108		0.86	1.39	1.20	2.00	A	6	6	1.29	0.10	1.20	2.00	0.15	8.11			
106	0.66	0.18	5	7.35	0.87	701				0.12	1.00	1.20	2.00	A	6	6	0.95	0.05	1.20	2.00	0.13	7.22			
107	0.66	0.64	5	7.35	3.10	1401				0.68	3.78	1.20	2.00	A	6	6	3.00	0.77	1.20	2.00	0.22	11.57			
108	0.66	0.18	5	7.35	0.87	109				0.02	0.89	1.20	2.00	A	6	6	0.85	0.03	1.20	2.00	0.13	6.93			
109	0.66	0.12	5	7.35	0.58	110				0.08	0.66	1.21	2.00	A	6	6	0.64	0.02	1.21	2.00	0.11	6.25			
110	0.66	0.11	5	7.35	0.53	111				0.58	1.11	1.66	2.00	A	6	6	1.03	0.08	1.66	2.00	0.13	7.08			
111	0.66	0.53	5	7.35	2.57	112				0.34	2.91	1.66	2.00	A	6	6	2.33	0.58	1.66	2.00	0.19	9.94			
112	0.66	0.42	5	7.35	2.04	113				0.18	2.22	1.66	2.00	A	6	6	1.88	0.34	1.66	2.00	0.17	9.03			
113	0.66	0.34	5	7.35	1.65					0.00	1.65	1.66	2.00	A	6	6	1.47	0.18	1.66	2.00	0.15	8.13			
114	0.66	0.39	5	7.35	1.89					0.00	1.89	1.64	2.00	A	6	6	1.65	0.24	1.64	2.00	0.16	8.55			
LINE 3																									
301	0.66	0.52	5	7.35	2.52					0.00	2.52	2.70	2.00	A	6	6	1.92	0.60	2.70	2.00	0.16	8.67			
302	0.66	0.69	5	7.35	3.35					0.00	3.35	2.70	2.00	A	6	6	2.33	1.02	2.70	2.00	0.18	9.59			
LINE 4																									
401	0.66	0.42	5	7.35	2.04	601				0.30	2.34	1.20	2.00	A	6	6	2.04	0.30	1.20	2.00	0.18	9.75			
LINE 5																									
501	0.66	0.43	5	7.35	2.09					0.00	2.09	1.09	2.00	A	6	6	1.87	0.22	1.09	2.00	0.18	9.52			
502	0.66	0.71	5	7.35	3.44	702				0.52	3.97	1.09	2.00	A	6	6	3.17	0.80	1.09	2.00	0.23	11.98			
LINE 6																									
601	0.66	0.43	5	7.35	2.09	801				0.27	2.35	1.20	2.00	A	6	6	2.05	0.30	1.20	2.00	0.19	9.77			
LINE 7																									
701	0.66	0.32	5	7.35	1.55					0.00	1.55	1.20	2.00	A	6	6	1.43	0.12	1.20	2.00	0.16	8.43			
702	0.66	0.58	5	7.35	2.81	703				0.29	3.10	1.19	2.00	A	6	6	2.58	0.52	1.19	2.00	0.21	10.80			
703	0.66	0.46	5	7.35	2.23	704				0.08	2.31	1.19	2.00	A	6	6	2.02	0.29	1.19	2.00	0.18	9.72			
704	0.66	0.26	5	7.35	1.26	1601				0.02	1.28	1.19	2.00	A	6	6	1.20	0.08	1.19	2.00	0.15	7.88			
705	0.66	0.07	5	7.35	0.34					0.00	0.34	1.19	2.00	A	6	6	0.34	0.00	1.19	2.00	0.09	4.99			
706	0.66	0.03	5	7.35	0.15					0.00	0.15	1.19	2.00	A	6	6	0.15	0.00	1.19	2.00	0.07	3.77			
707	0.66	0.49	5	7.35	2.38	1601				0.02	2.39	SUMP	2.00	A	6	4.8	13.44	0.00	SUMP	2.00	< 0.21	< 12			
707	0.66	0.50	5	7.35	2.43					0.00	2.43	SUMP	2.00	A	6	4.8	13.44	0.00	SUMP	2.00	< 0.21	< 12			
LINE 8																									
801	0.66	0.26	5	7.35	1.26	901				0.95	2.21	1.20	2.00	A	6	6	1.95	0.27	1.20	2.00	0.18	9.56			
LINE 9																									
901	0.66	0.66	5	7.35	3.20	1101				0.86	4.07	1.33	2.00	A	6	6	3.11	0.95	1.33	2.00	0.22	11.66			
LINE 11																									
1101	0.66	0.65	5	7.35	3.15	1201				0.44	3.59	1.66	2.00	A	6	6	2.73	0.86	1.66	2.00	0.20	10.72			
LINE 12																									
1201	0.66	0.47	5	7.35	2.28	114				0.24	2.52	1.66	2.00	A	6	6	2.09	0.44	1.66	2.00	0.18	9.45			
LINE 14																									
1401	0.66	0.54	5	7.35	2.62	1501				0.91	3.53	1.19	2.00	A	6	6	2.86	0.68	1.19	2.00	0.22	11.31			
LINE 15																									
1501	0.66	0.85	5	7.35	4.12	705				0.00	4.13	1.19	2.00	A	6	6	3.21	0.91	1.19	2.00	0.23	11.96			
LINE 16																									
1601	0.66	0.13	5	7.35	0.63					0.00	0.63	1.33	2.00	A	6	6	0.61	0.02	1.33	2.00	0.11	6.05			
1602	0.66	0.13	5	7.35	0.63					0.00	0.63	1.33	2.00	A	7	7	0.62	0.01	1.33	2.00	0.11	6.05			
LINE 17																									
1701	0.66	1.32	5	7.35	6.40	1702	2101	2301		0.03	6.43	SUMP	2.00	A	6	4.8	13.44	0.00	SUMP	2.00	< 0.21	< 12			
1702	0.66	0.27	5	7.35	1.31	1703	1801			0.02	1.33	1.20	2.00	A	6	6	1.24	0.09	1.20	2.00	0.15	7.98			
1703	0.66	0.53	5	7.35	2.57	1704				0.01	2.58	1.33	2.00	A	6	6	2.19	0.39	1.33	2.00	0.19	9.91			
1704	0.66	0.28	5	7.35	1.36	1705				0.01	1.37	1.33	2.00	A	6	6	1.27	0.10	1.33	2.00	0.15	7.92			
1705	0.66	0.39	5	7.35	1.89					0.00	1.89	1.33	2.00	A	6	6	1.69	0.21	1.33	2.00	0.17	8.88			
1706	0.66	0.86	5	7.35	4.17	1707				0.01	4.18	1.25	2.00	A	6	6	3.22	0.97	1.25	2.00	0.23	11.91			
1707	0.66	0.34	5	7.35	1.65					0.00	1.65	1.40	2.00	A	6	6	1.49	0.16	1.40	2.00	0.16	8.38			
LINE 18																									
1801	0.66	0.55	5	7.35	2.67	1901				0.01	2.68	1.33	2.00	A	6	6	2.26	0.42	1.33	2.00	0.19	10.04			
LINE 19																									
1901	0.66	0.26	5	7.35	1.26	1706				0.01	1.27	1.33	2.00	A	6	6	1.18	0.09	1.33	2.00	0.14	7.72			
LINE 21																									
2101	0.66	0.31	5	7.35	1.50	2102				0.01	1.51	1.99	2.00	A	6	6	1.34	0.18	1.99	2.00	0.14	7.64			
2102	0.66	0.32	5	7.35	1.55					0.00	1.55	1.99	2.00	A	6	6	1.37	0.19	1.99	2.00	0.14	7.71			
2103	0.66	0.43	5	7.35	2.09					0.00	2.09	1.99	2.00	A	6	6	1.75	0.34	1.99	2.00	0.16	8.56			
LINE 23																									
2301	0.66	0.29	5	7.35	1.41	2103				0.01	1.42	1.99	2.00	A	6	6	1.26	0.15	1.99	2.00	0.14	7.47			



PREPARED BY:



09.18.2023

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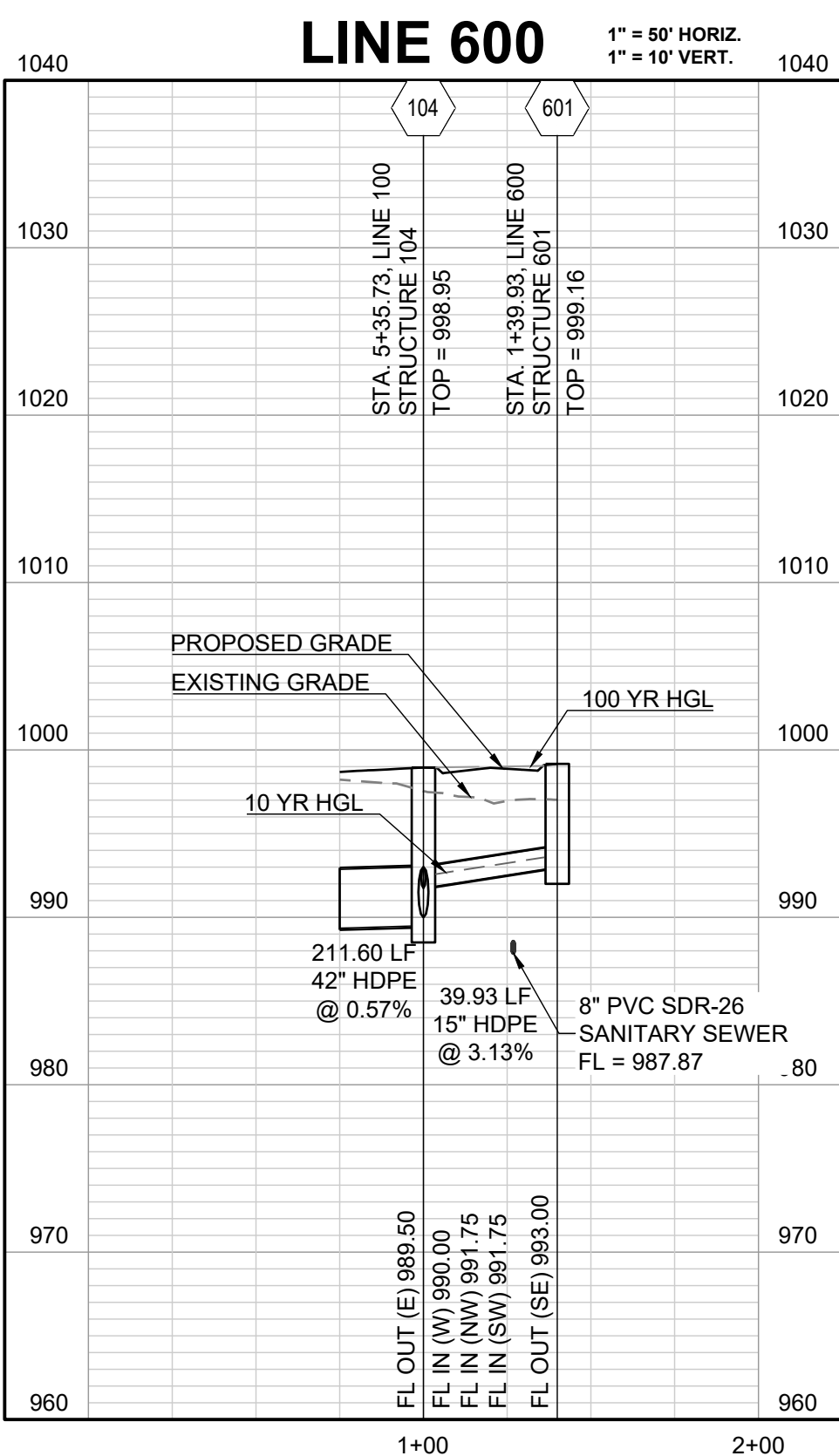
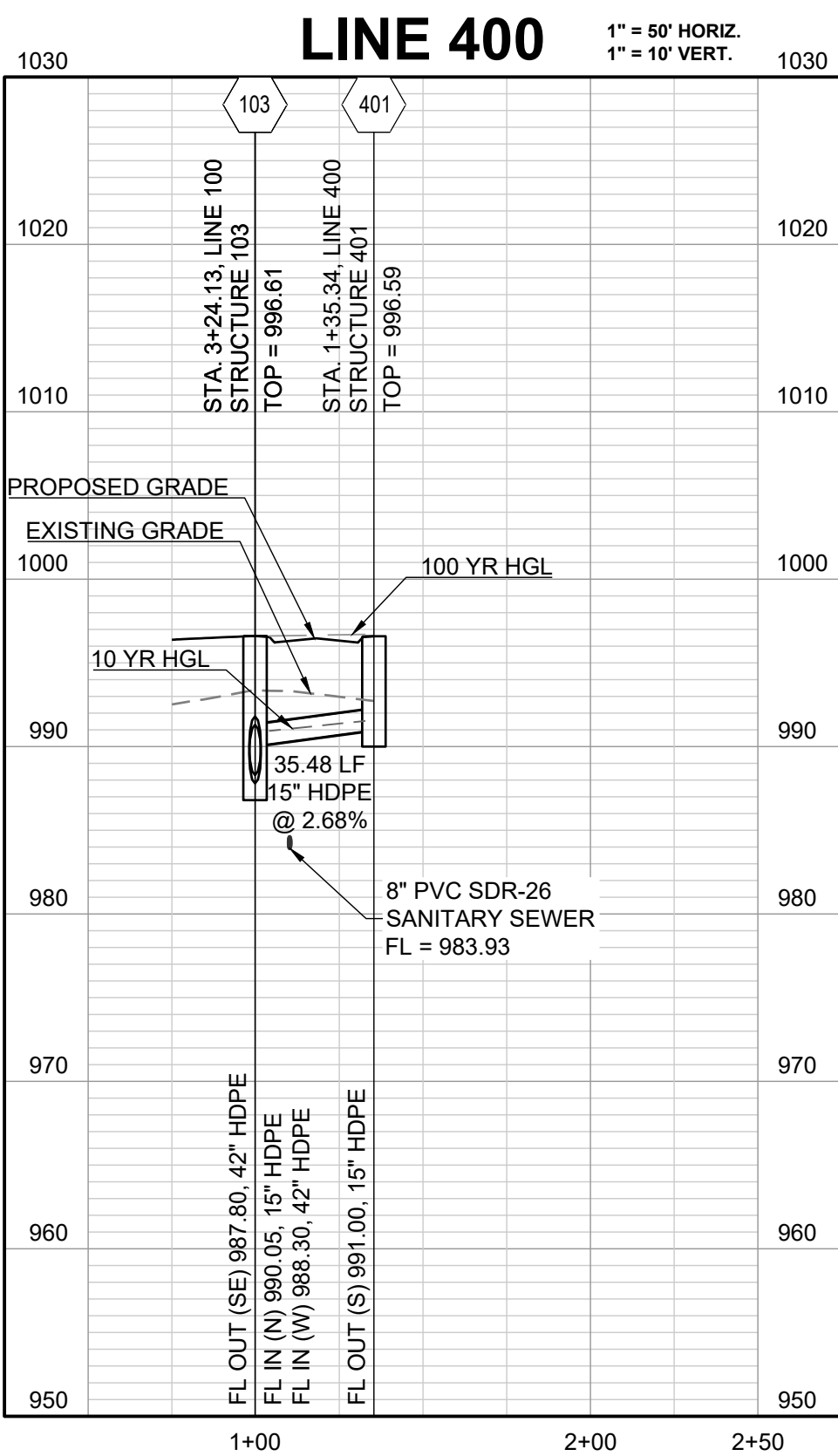
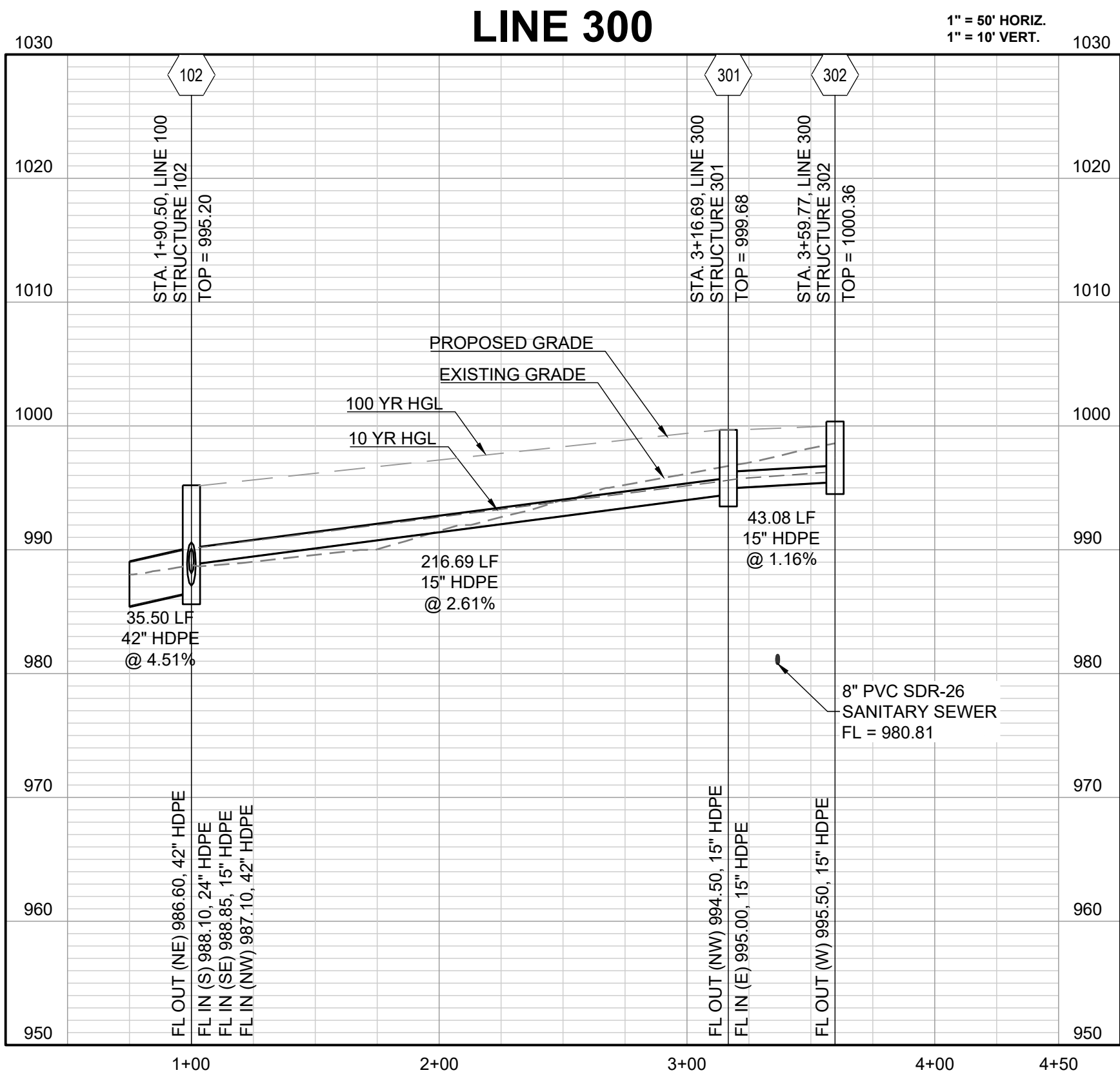
REUNION AT BLACKWELL
PUBLIC STREET AND STORM SEWER PLANS
SE SHENANDOAH DRIVE LEE'S SUMMIT, MO

REVISION DATE	DESCRIPTION
05/05/2023	PER CITY COMMENTS
06/02/2023	PER CITY COMMENTS
06/27/2023	PER CITY COMMENTS
09/06/2023	PER CITY COMMENTS
09/06/2023	DATE PREPARED
09/06/2023	PROJ. NUMBER:
22-597	

STORM
PROFILES

SHEET

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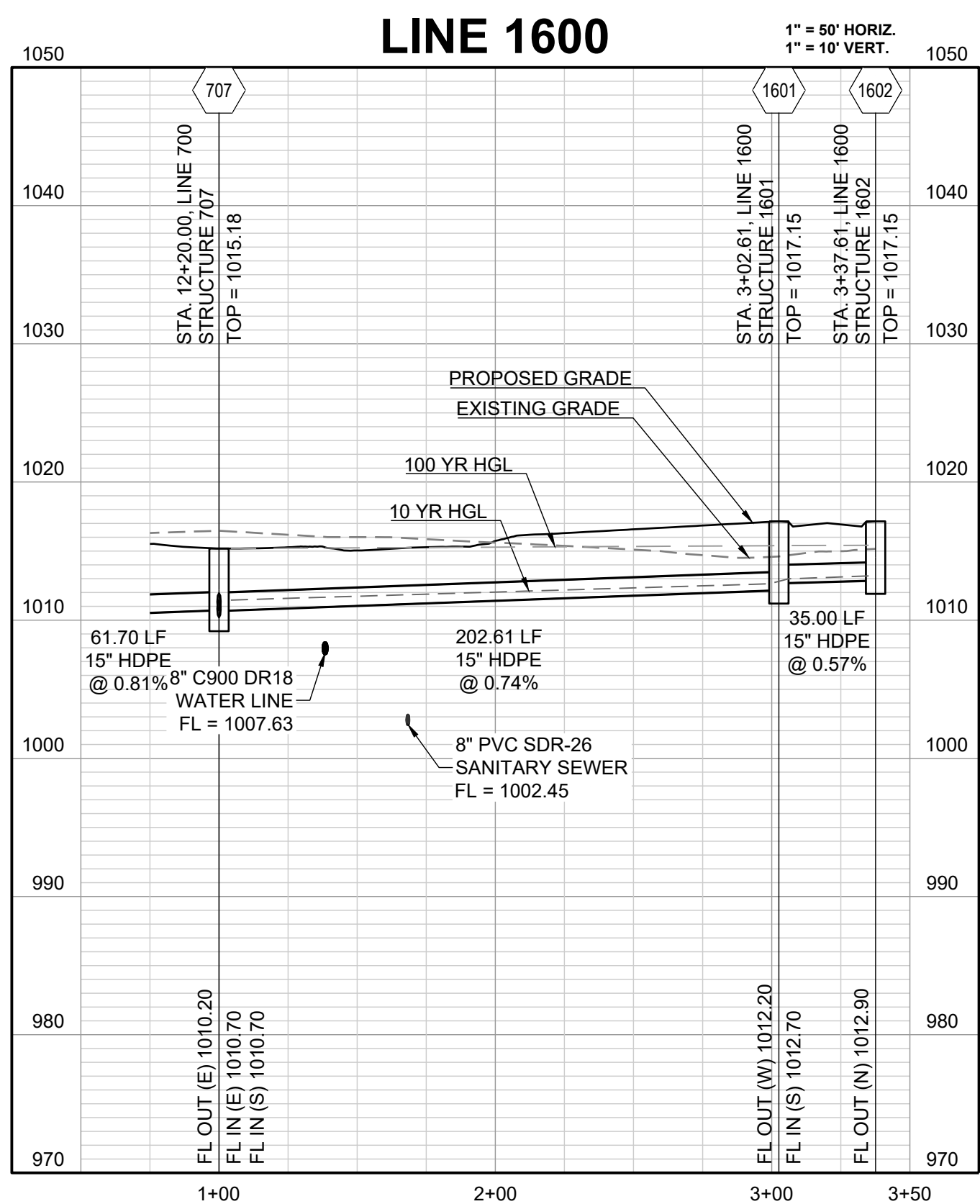
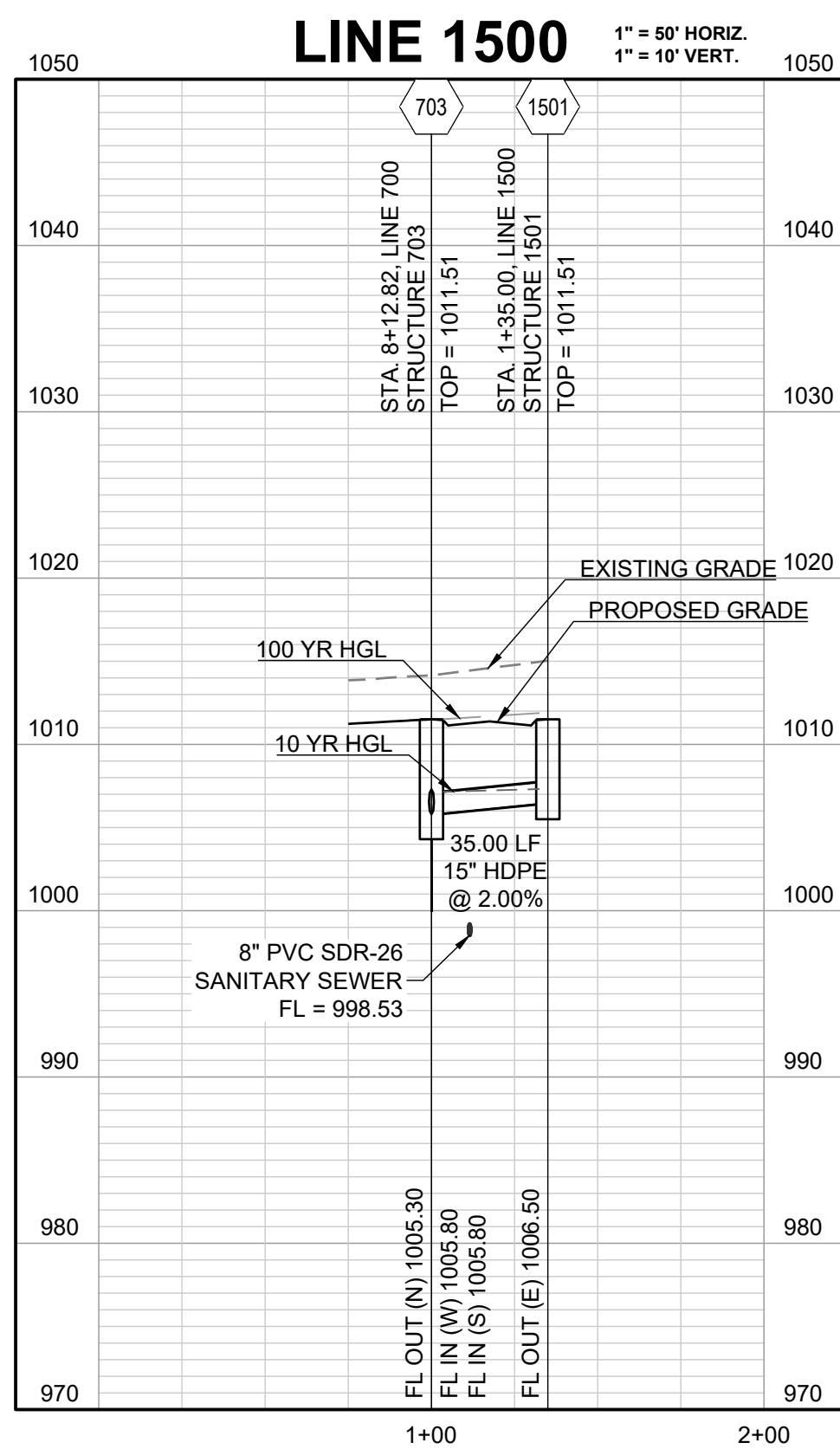
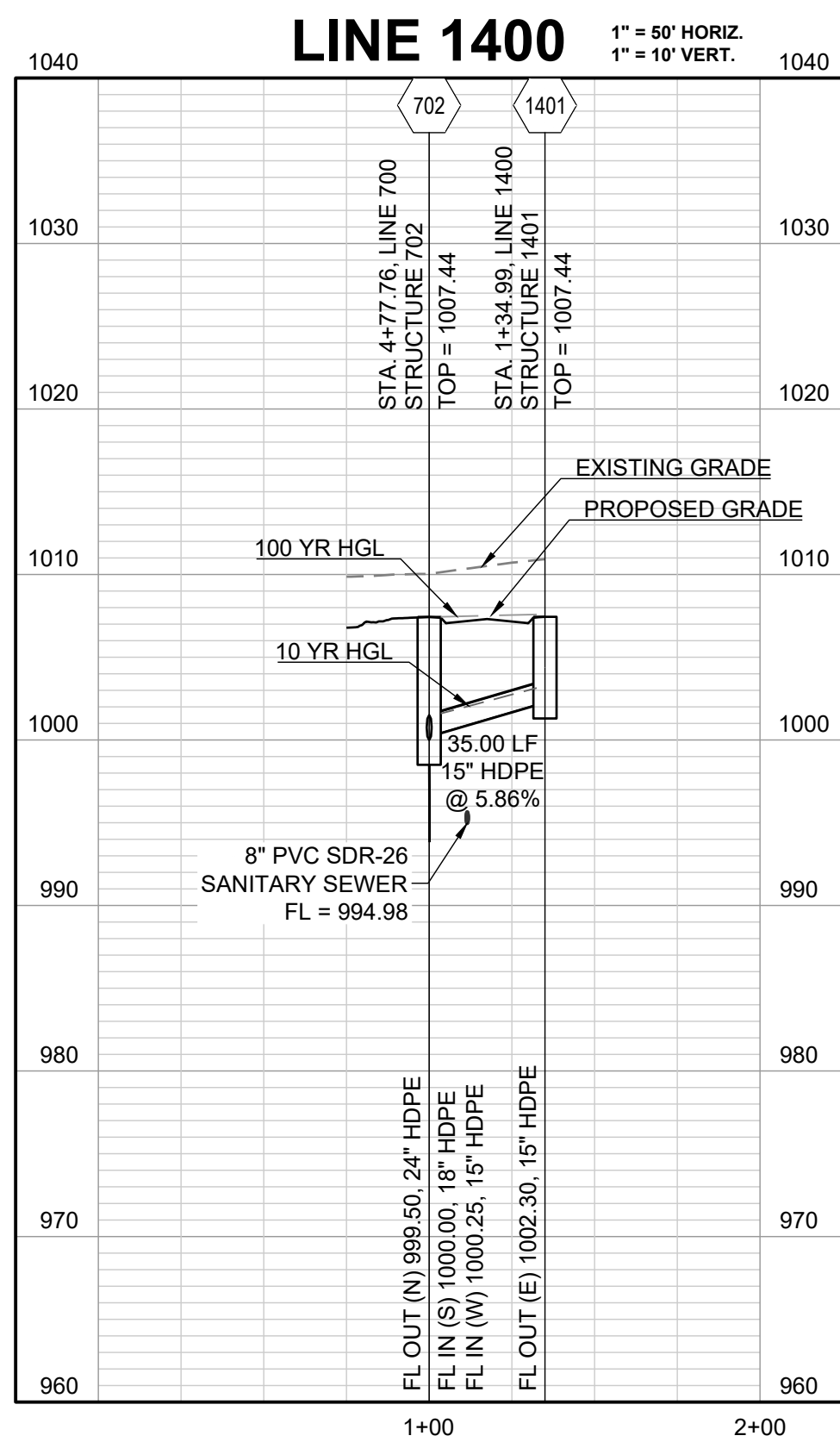
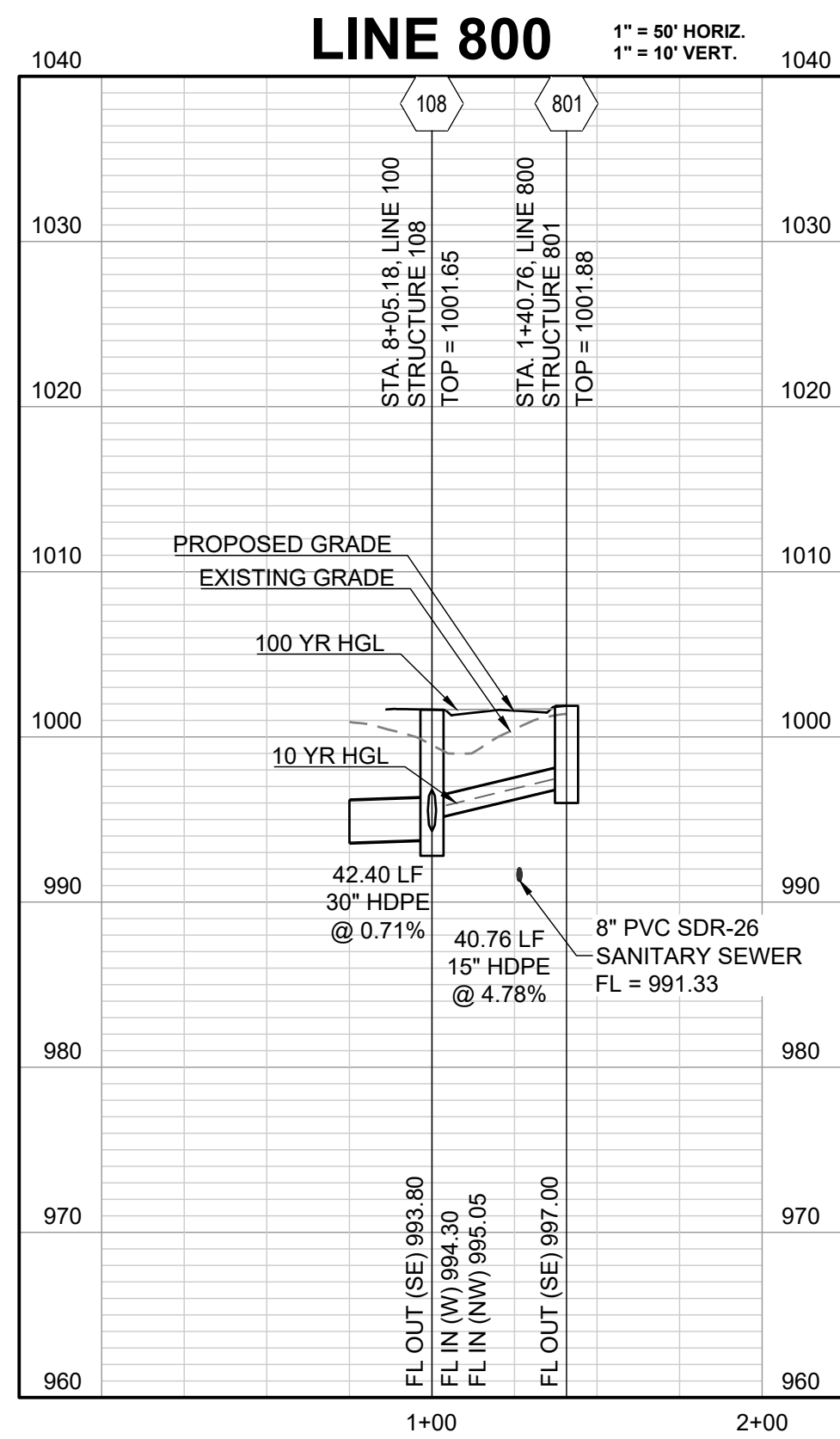
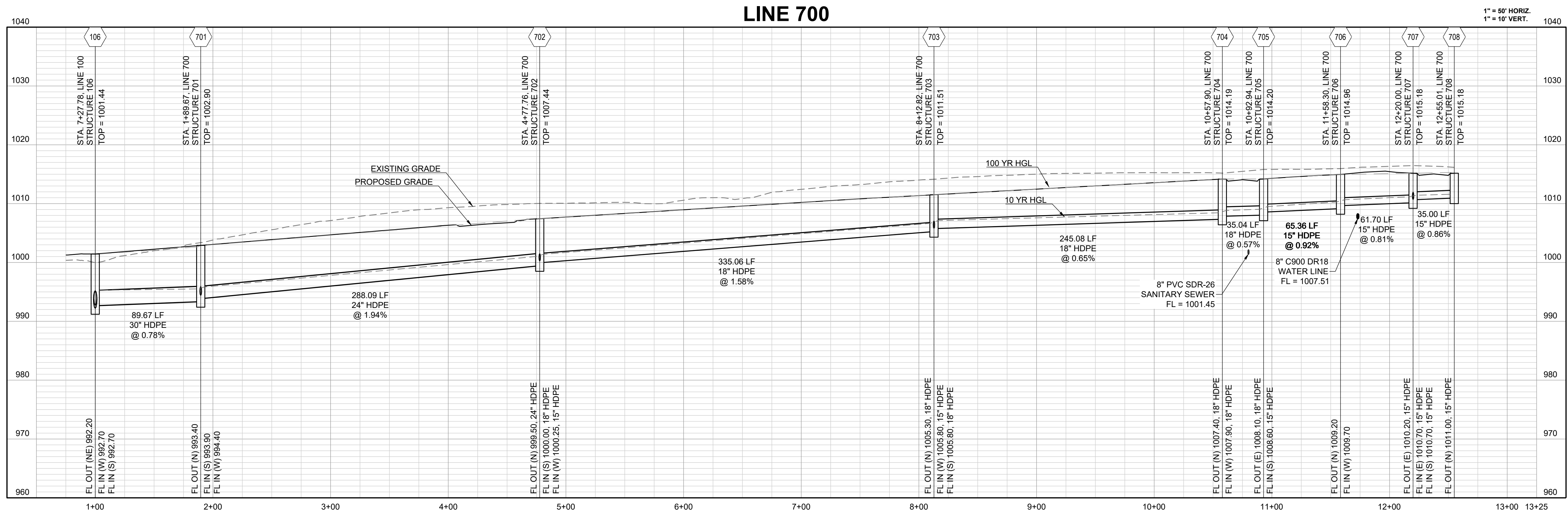


REUNION AT BLACKWELL
PUBLIC STREET AND STORM SEWER PLANS
SE SHENANDOAH DRIVE LEE'S SUMMIT, MO

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1 05/05/2023	PER CITY COMMENTS
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3 06/27/2023	PER CITY COMMENTS
4 09/06/2023	PER CITY COMMENTS
5	
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DRAWN BY:	TRC
CHECKED BY:	MAB
DATE PREPARED:	09/03/2023
PROJ. NUMBER:	22-597

STORM
PROFILES



REVISION DATE	DESCRIPTION
05/05/2023	PER CITY COMMENTS
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09/03/2023	DATE PREPARED
22-597	PROJ. NUMBER



STANDARD DETAILS
OF LEE'S SUMMIT, MO
SUMMIT, JACKSON COUNTY, MO

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LEE'S SUMMIT
MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64066

FLARED END SECTION SUPPORT DETAIL

Date: 05/2021
Drawn By: MJF
Checked By: DJ

Drawn By: MJF

Checked By: D.	

STM



STANDARD DETAILS
OF LEE'S SUMMIT, MO
SUMMIT, JACKSON COUNTY, MO

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SCHLAGEL
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Missouri State Certificates of Authority
#E20020030200037 #LAC2011005237 #LS20020098859-F

PREPARED BY:



09.18.202

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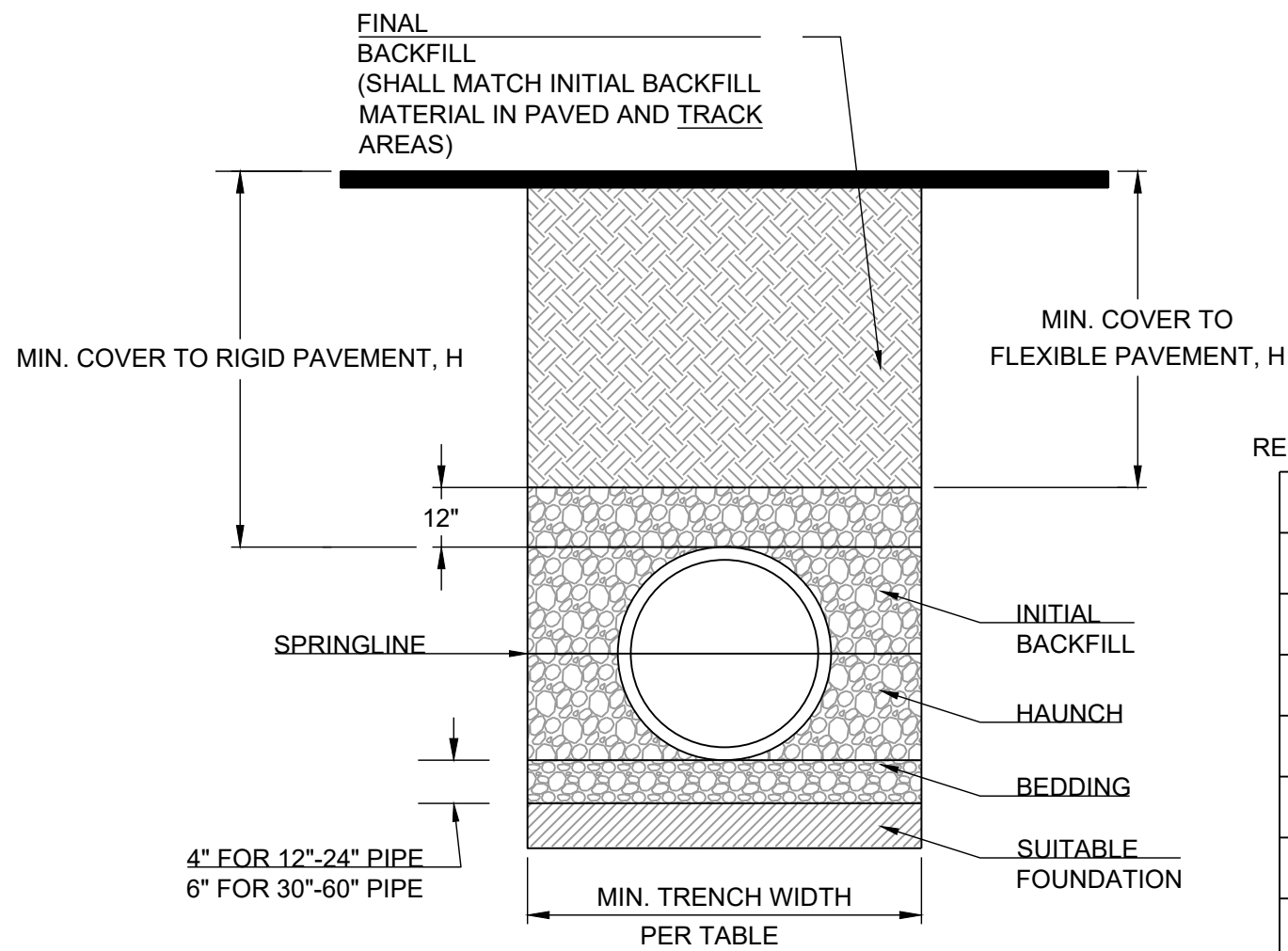
REUNION AT BLACKWELL
PUBLIC STREET AND STORM SEWER PLANS
SE SHENANDOAH DRIVE LEE'S SUMMIT, MO

DRAWN BY:	REVISION DATE:	DESCRIPTION
TRC	05/05/2023	PER CITY COMMENTS
	06/02/2023	PER CITY COMMENTS
CHECKED BY:	06/27/2023	PER CITY COMMENTS
MAB	09/06/2023	PER CITY COMMENTS
	5/1	
DATE PREPARED:	6	
03/03/2023	7	
	8	
PROJ. NUMBER:	9	
	27, 2007	

STORM DETAILS

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MINIMUM RECOMMENDED COVER BASED ON VEHICLE LIVE LOADING CONDITION		
PIPE DIAM.	H-25	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48"	12"	48"
54" - 60"	24"	60"

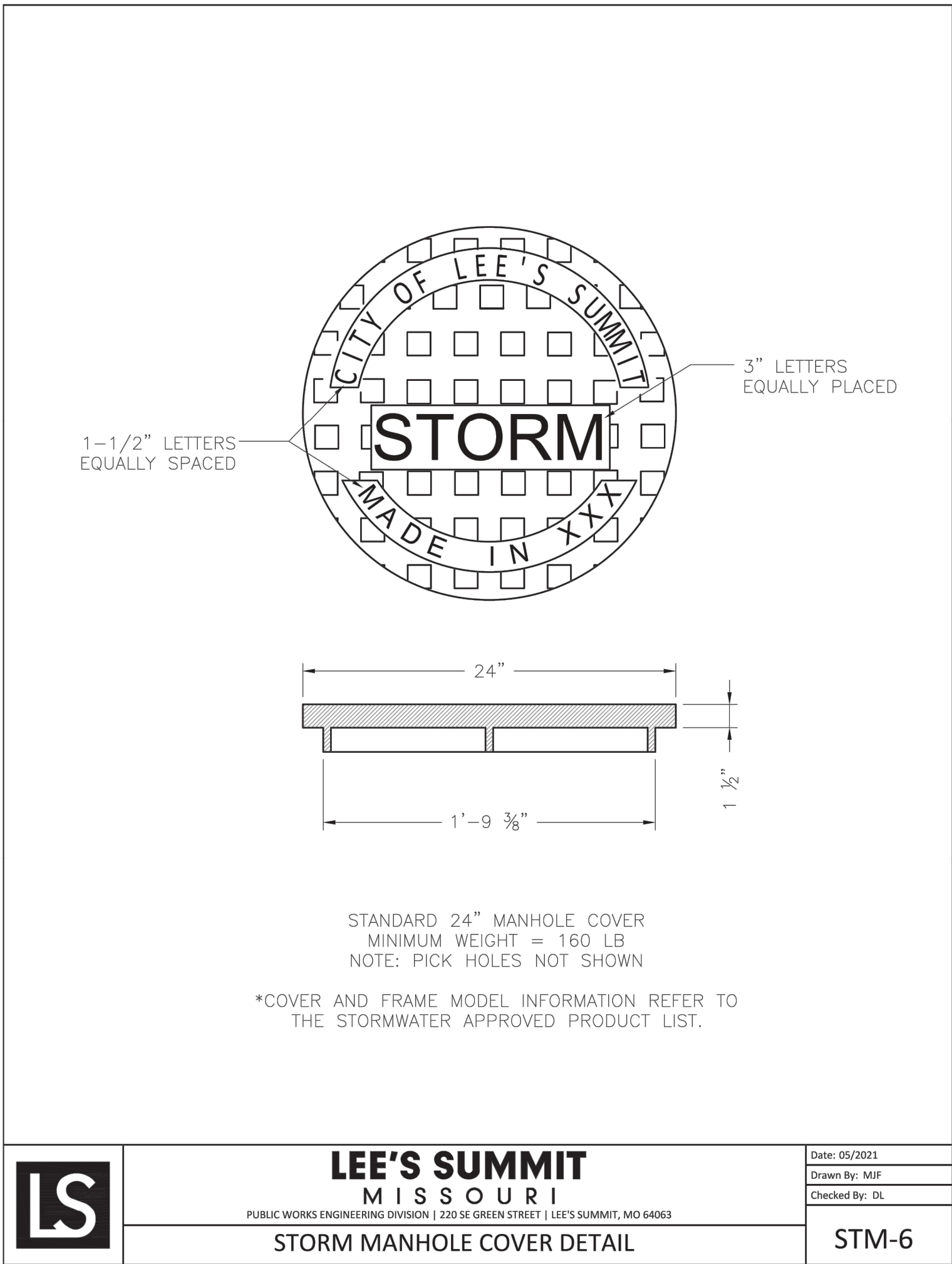
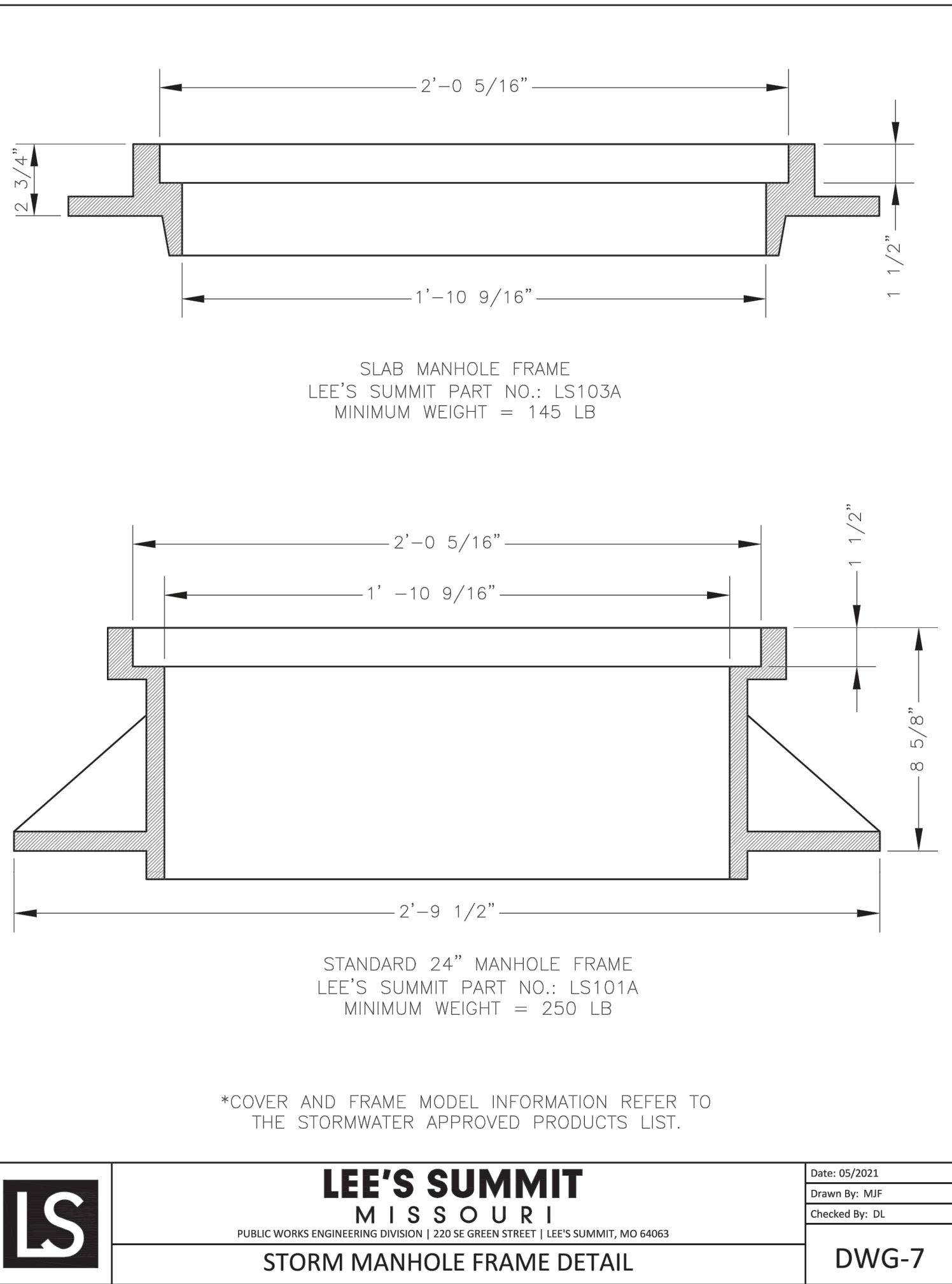
* VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

RECOMMENDED MINIMUM TRENCH WIDTHS

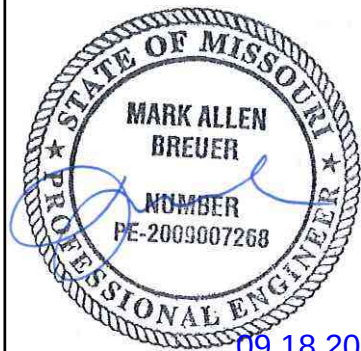
PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

NOTES:

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-900mm).
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
- TESTING: CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL MATERIAL TESTING REQUIRED FOR THEIR WORK. THIS INCLUDES SCHEDULING OF TESTS, COORDINATING AND PROVIDING ACCESS TO SAMPLE LOCATIONS, AND SATISFYING ALL TEST RESULT REPORTING REQUIREMENTS.



PREPARED BY:



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