ALL EXISTING TOPOGRAPHIC DATA AND INFRASTRUCTURE IMPROVEMENTS SHOWN BASED ON INFORMATION BY KAW VALLEY ENGINEERING **BENCHMARKS**: DRIVE ENTRANCE

#1 CHISELED "SQUARE" ON TOP OF CURB POINT OF INTERSECTION OF WEST PARK PARKING LOT AT EAST 3. THE CONTRACTOR SHALL CONTACT THE CITY DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A ELEVATION 985.05 PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT #2 CHISELED "SQUARE" ON NORTHWEST CORNER AREA INLET, 25' EAST OF CURB LINE AND ON-LINE WITH 816-969-1200. SOUTH CURB OF LOWENSTEIN DRIVE AT 90° BEND IN ROAD ELEVATION 971.06

FLOODPLAIN NOTE: SUBJECT PROPERTY IS SHOWN TO BE LOCATED IN "OTHER AREAS ZONE X" ON THE FLOOD INSURANCE RATE MAP FOR JACKSON COUNTY, MISSOURI AND INCORPORATED AREAS. COMMUNITY PANEL NO. 29095C0416G, REVISED JANUARY 20, 2017. "OTHER AREAS ZONE X" IS DEFINED AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUL CHANCE FLOODPLAIN". LOCATION DETERMINED BY A SCALED GRAPHICAL PLOT OF THE FLOOD INSURANCE RATE MAP.

CAUTION- NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

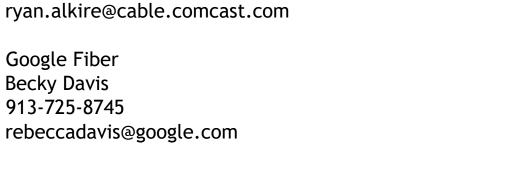
TIME. HOWEVER, NEITHER SM ENGINEERING NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE SM ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENEDED BY THE OWNER AT THIS

WARRANTY/DISCLAIMER

NOTED ON THIS SURVEY. SAFETY NOTICE TO CONTRACTOR IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICE, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF

UTILITY STATEMENT: THE UNDERGROUND UTILITIES SHOWN HEREON ARE FROM FIELD SURVEY INFORMATION OF ONE-CALL LOCATED UTILITIES, FIELD SURVEY INFORMATION OF ABOVE GROUND OBSERVABLE EVIDENCE, AND/OR THE SCALING AND PLOTTING OF EXISTING UTILITY MAPS AND DRAWINGS AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES BY EXCAVATION UNLESS OTHERWISE



Comcast Ryan Alkire 816-795-2218 rvan.alkire@cable.comcast.com

Google Fiber **Becky Davis** 913-725-8745

Time Warner Cable **Steve Baxter** 913-643-1928 steve.baxter@charter.com

Communication Service AT&T Carrie Cilke 816-703-4386 cc3527@att.com

Water/Sanitary Sewer Water Utilities Department 1200 SE Hamblen Road Lee's Summit, Mo 64081 Jeff Thorn 816-969-1900 jeff.thorn@cityofls.net

Katie Darnell 816-969-2247 Katie.darnell@spireenergy.com

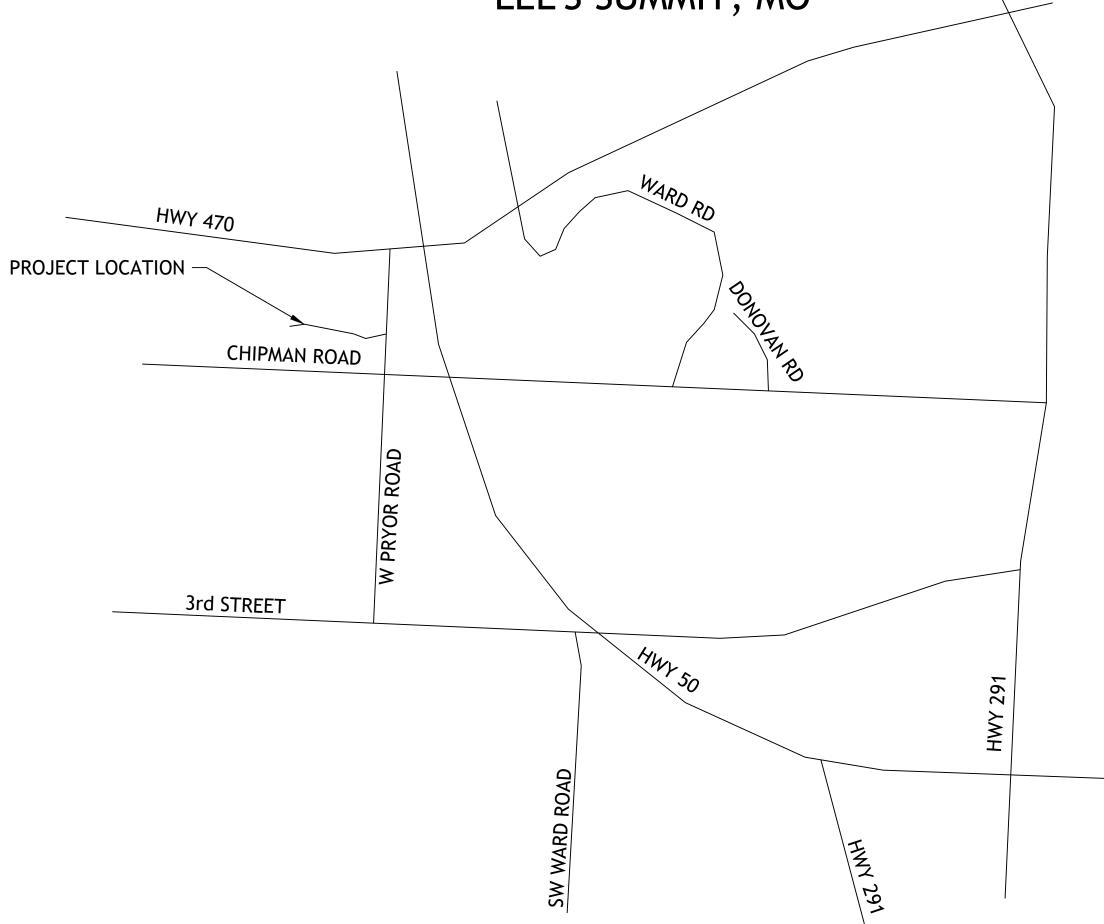
913-347-4310 Nathan.michael@evergy.com Gas Service Spire

Evergy Nathan Michael

UTILITIES

Electric Service

PUBLIC IMPROVEMENT PLANS FOR LOWENSTEIN DRIVE STREETS OF WEST PRYOR LEE'S SUMMIT, MO



LOCATION MAP

NOTES

1. ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813. WHERE DISCREPANCIES EXIST BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL, THE MORE STRINGENT SHALL PREVAIL.

2. THERE ARE NO GAS/OIL WELLS PER MDNR DATABASE OF OIL AND GAS PERMITS.

INDEX OF SHEETS

- C-1 COVER SHEET
- C-2 EXISTING CONDITIONS
- C-3 LAYOUT PLAN
- C-4 GRADING PLAN
- C-5 EROSION CONTROL PLAN
- C-6 EROSION CONTROL DETAILS
- LOWENSTIEN DRIVE PLAN AND PROFILE
- C-8 LOWENSTIEN DRIVE PLAN AND PROFILE
- C-9 INTERSECTION DETAILS
- C-10 STORM LINE E PLAN AND PROFILE C-11 STORM LINE E PLAN AND PROFILE
- C-12 STORM LINE F PLAN AND PROFILE
- C-13 DRAINAGE PLAN
- C-14 DETAILS
- C-15 DETAILS

DEVELOPER

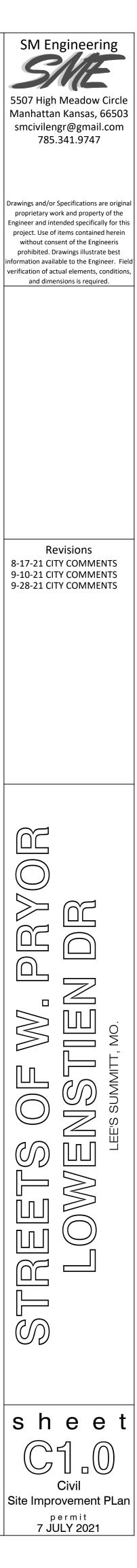
SWP III, LLC C/O DRAKE DEVELOPMENT, LLC 7200 W 132nd ST, SUITE 150 OVERLAND PARK, KS 66213 913-662-2630

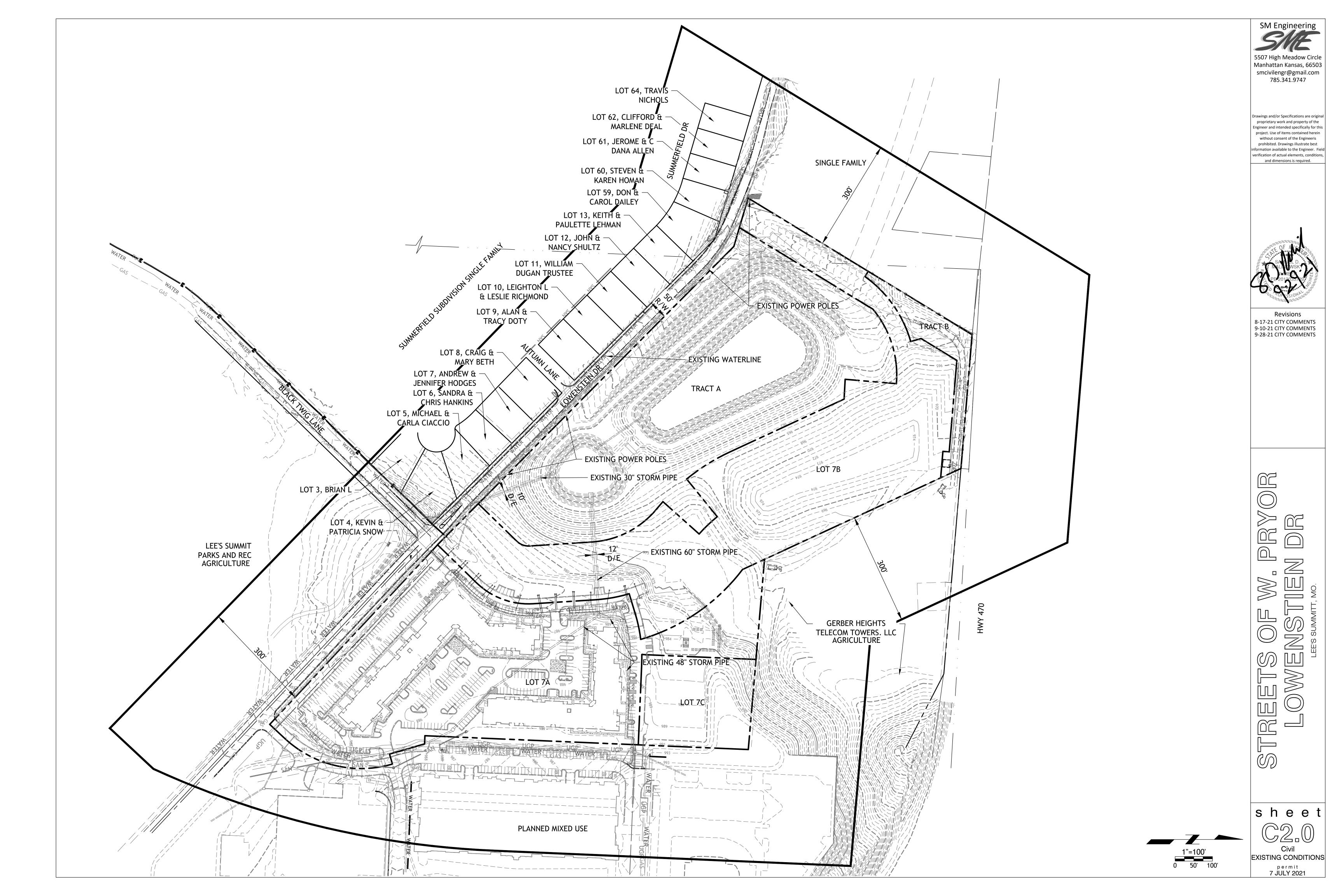
ENGINEER

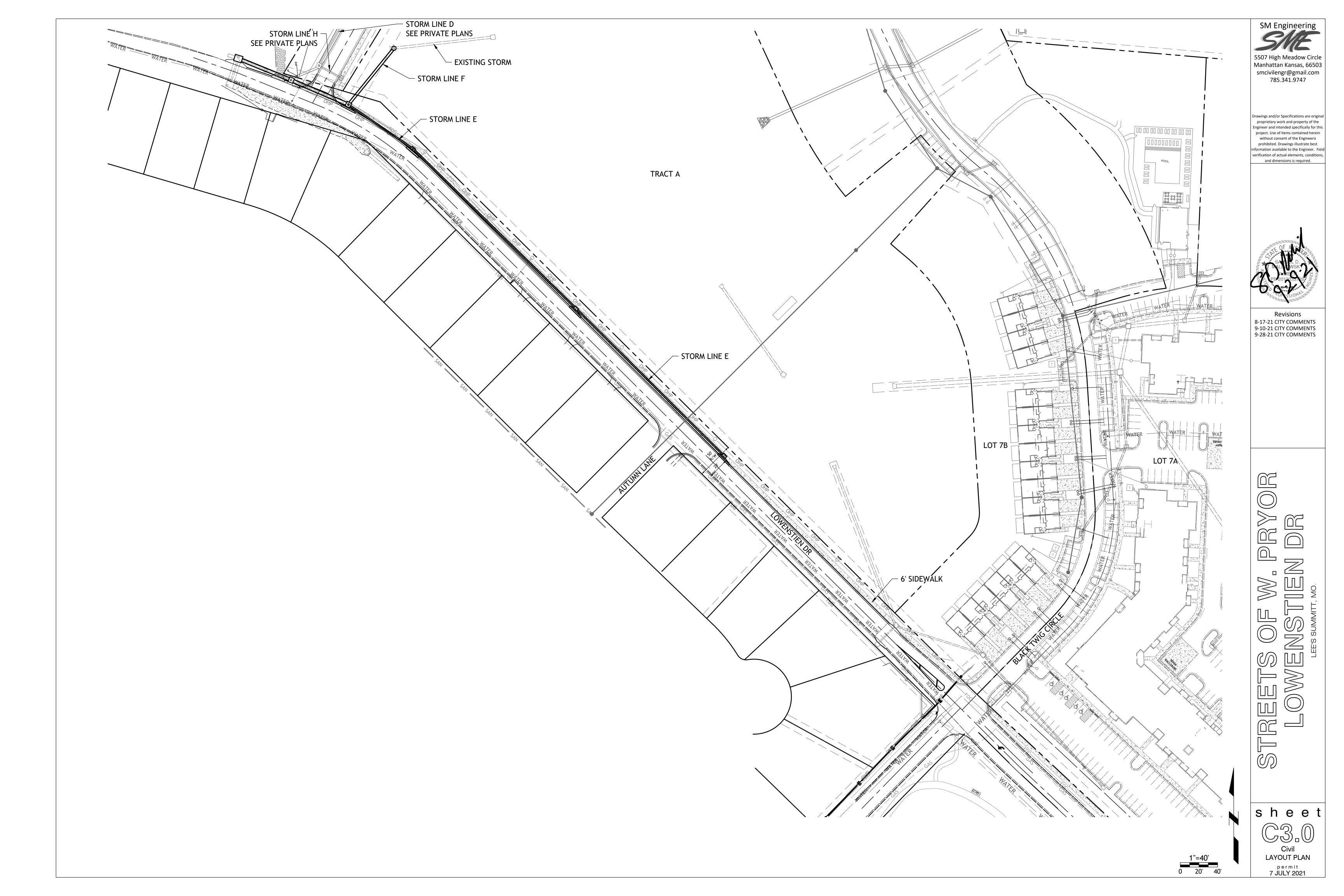
SM ENGINEERING SAM MALINOWSKY 5507 HIGH MEADOW CIRCLE MANHATTAN KANSAS, 66503 SMCIVILENGR@GMAIL.COM 785.341.9747

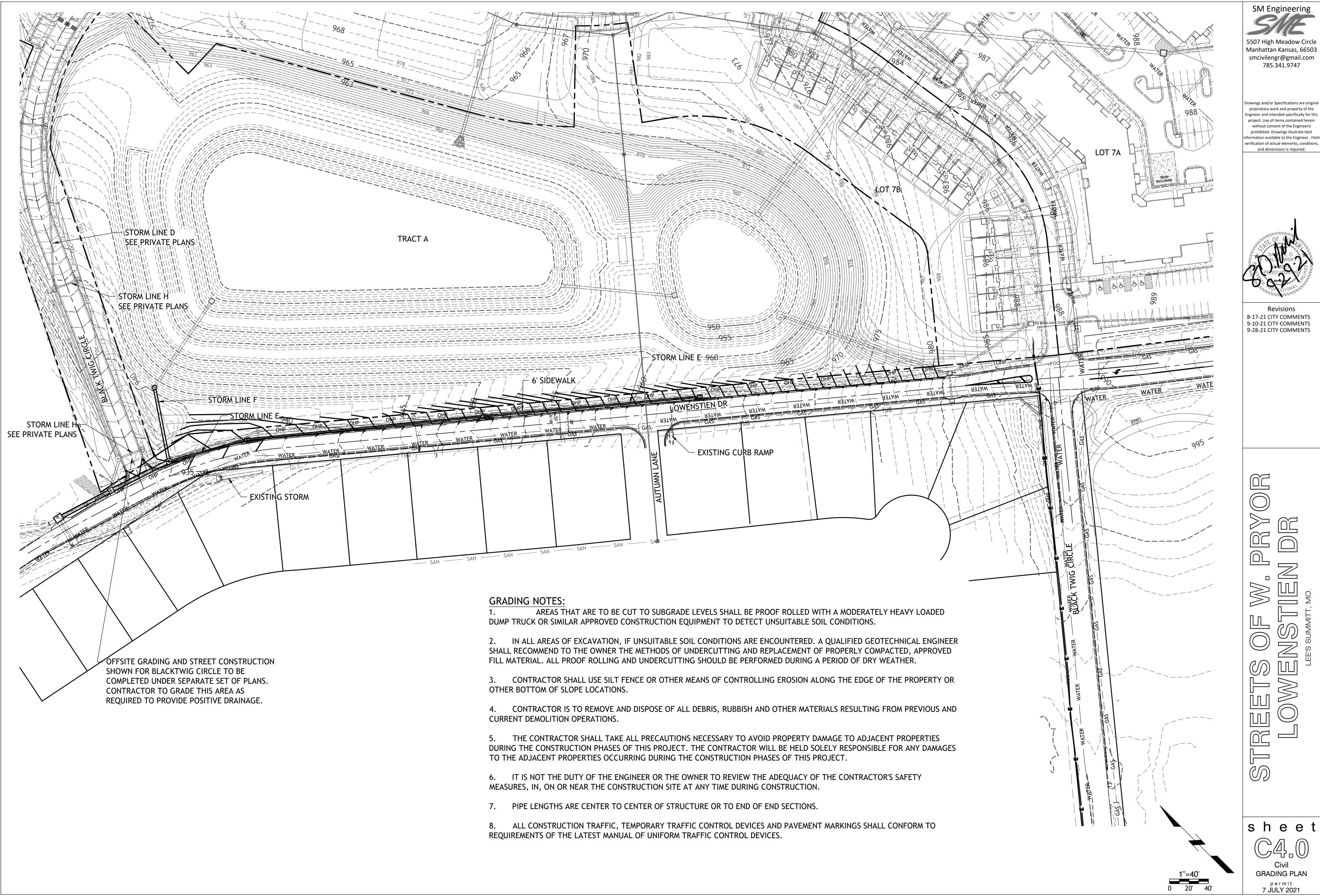


SAMUEL D. MALINOWSKY **PROFESSIONAL ENGINEEER**









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NOTES:

Prior to Land Disturbance activities, the following shall occur:

 a) Identify the limits of constructjan on the ground with
 easily recognizable indications such as construction staking,
 construction fencing and placement of physical barriers or
 other means acceptable to the City inspector and in
 conformance with the erosion and pollution control plan;
 b) Construct a stabilized entrance/parking/staging area;

 c) Install perimeter controls and protect any existing stormwater inlets;

d) Request an initial inspection of the installed Phase I pollution control measures designated on the approved erosion and pollution control plan. Land disturbance work shall not proceed until there is a passed inspection
2. The site shall comply with all requirements of the MoDNR general requirements

a) Immediate initiation of temporary stabilization BMPs on disturbed areas where construction activities have temporarily ceased on that portion of the project site if construction activities will not resume for a period exceeding 14 calendar days. Temporary stabilization may include establishment of vegetation, geotextiles, mulches or other techniques to reduce or eliminate erosion until either final stabilization con be achieved or until further construction activities take place to re-disturb the area. This stabilization must be completed within 14 calendar days;

b) Inspection of erosion and sediment control measures shall be performed to meet or exceed the minimum inspection frequency in the MoDNR General Permit. At a minimum, inspections shall be performed during all phases of construction at least once every 14 days and within 24 hours of each precipitation event.

c) An inspection log shall be maintained and shall be available for review by the regulatory authority;
d) The erosion and pollution control plan shall be routinely updated to show all modifications and amendments to the original plan. A copy of the erosion and pollution control plan shall be kept on site and made available for review by the regulatory authority.

3. Temporary seeding shall only be used for periods not to exceed 12 months. For final stabilization. temporary seeding shall only be used to establish vegetation outside the permanent seeding or sodding dates as specified in the Standard Specifications. Final stabilization requires a uniform perennial vegetative cover with a density of 70% over 100% of disturbed area.

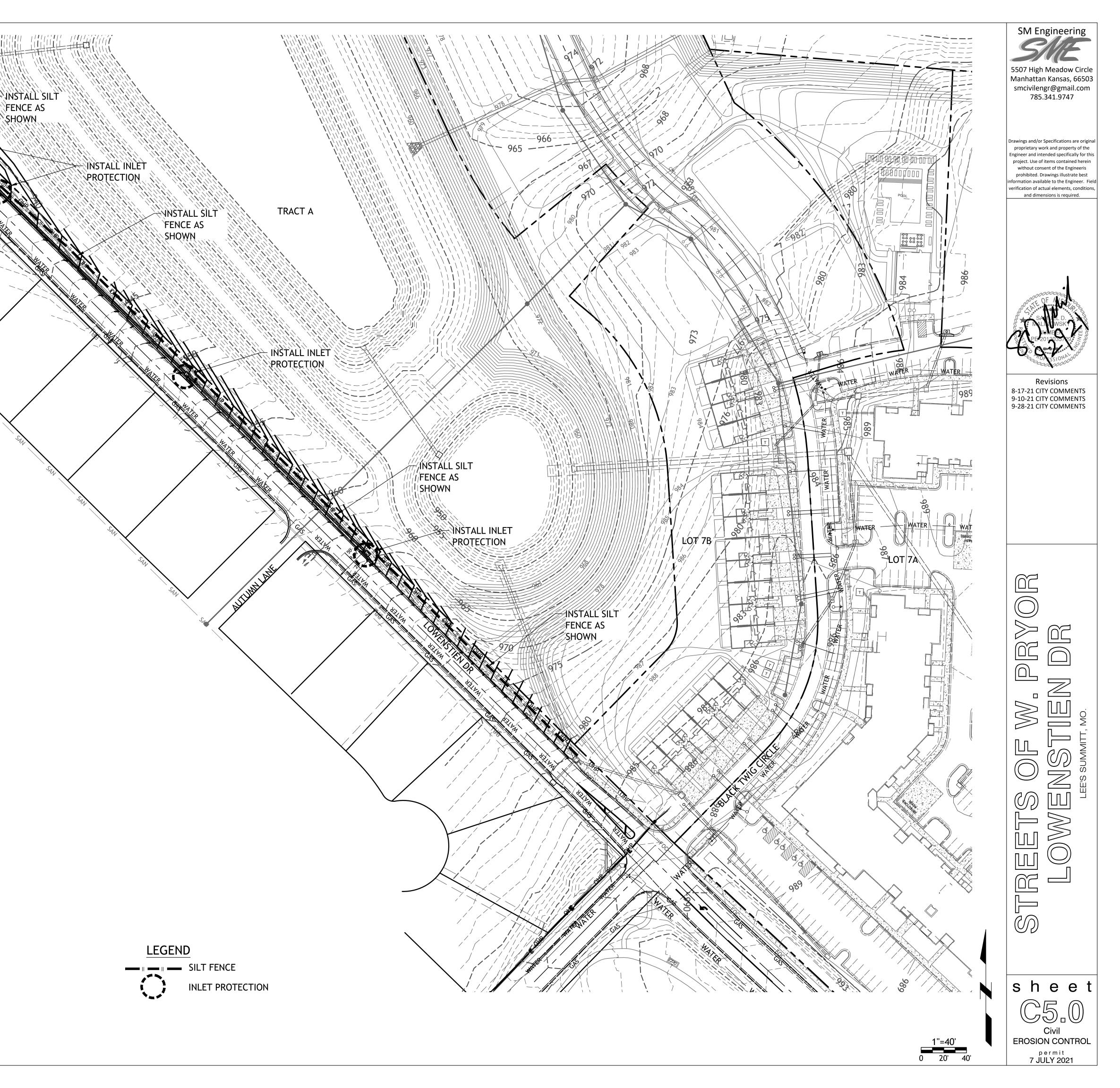
4. Erosion and pollution control shall be provided for the duration of a project. All installed erosion and pollution control BMPs shall be maintained in a manner that preserves their effectiveness. If the City determines that the BMPs in place do not provide adequate erosion and pollution control at any time during the project, additional or alternate measures that provide effective control shall be required. 5. Concrete wash or rinse water from concrete mixing equipment. Tools and/or ready-mix trucks. etc. may not be discharged into or be allowed to run to any existing water body or portion of the storm water system. One or more locations for concrete washout will be designated on site, such that discharges during concrete washout will be contained in a small area where waste concrete can solidify in place. Proper signage will be installed to direct users to the concrete washout. Concrete washouts must be handled prior to pouring any concrete.

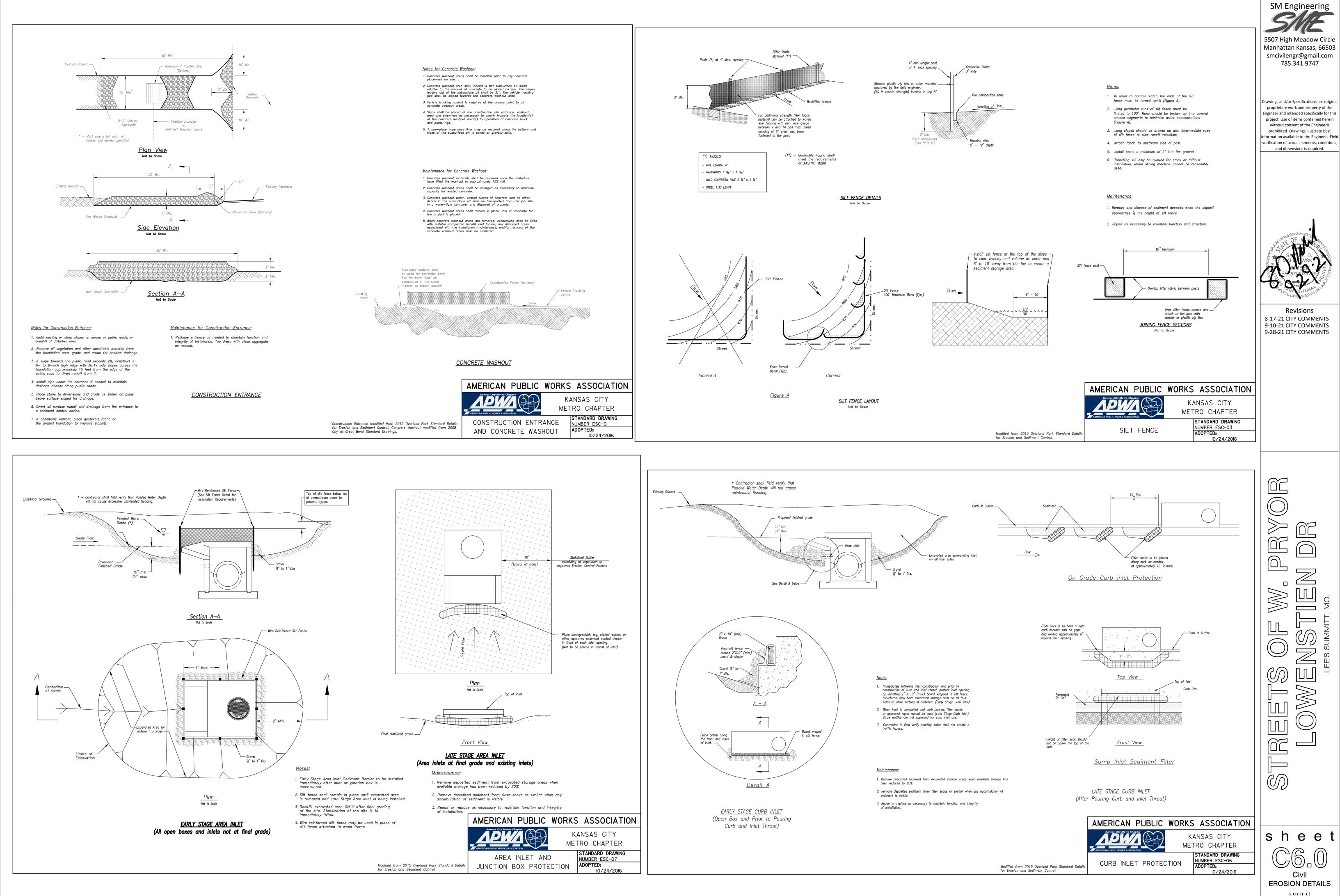
6. Silt fences and sediment control BMPs which are shown along the back of curb must be installed within two weeks of curb backfill and prior to placement of base asphalt.
Exact locations of these erosion control methods may be field adjusted to minimize conflicts with utility construction.
However, anticipated disturbance by utility construction shall not delay installation.

7. Required sediment basins and traps shall be installed as early as possible during mass grading. Sediment basins and traps shall be cleaned out when the sediment capacity has been reduced by 20% of its original design volume.

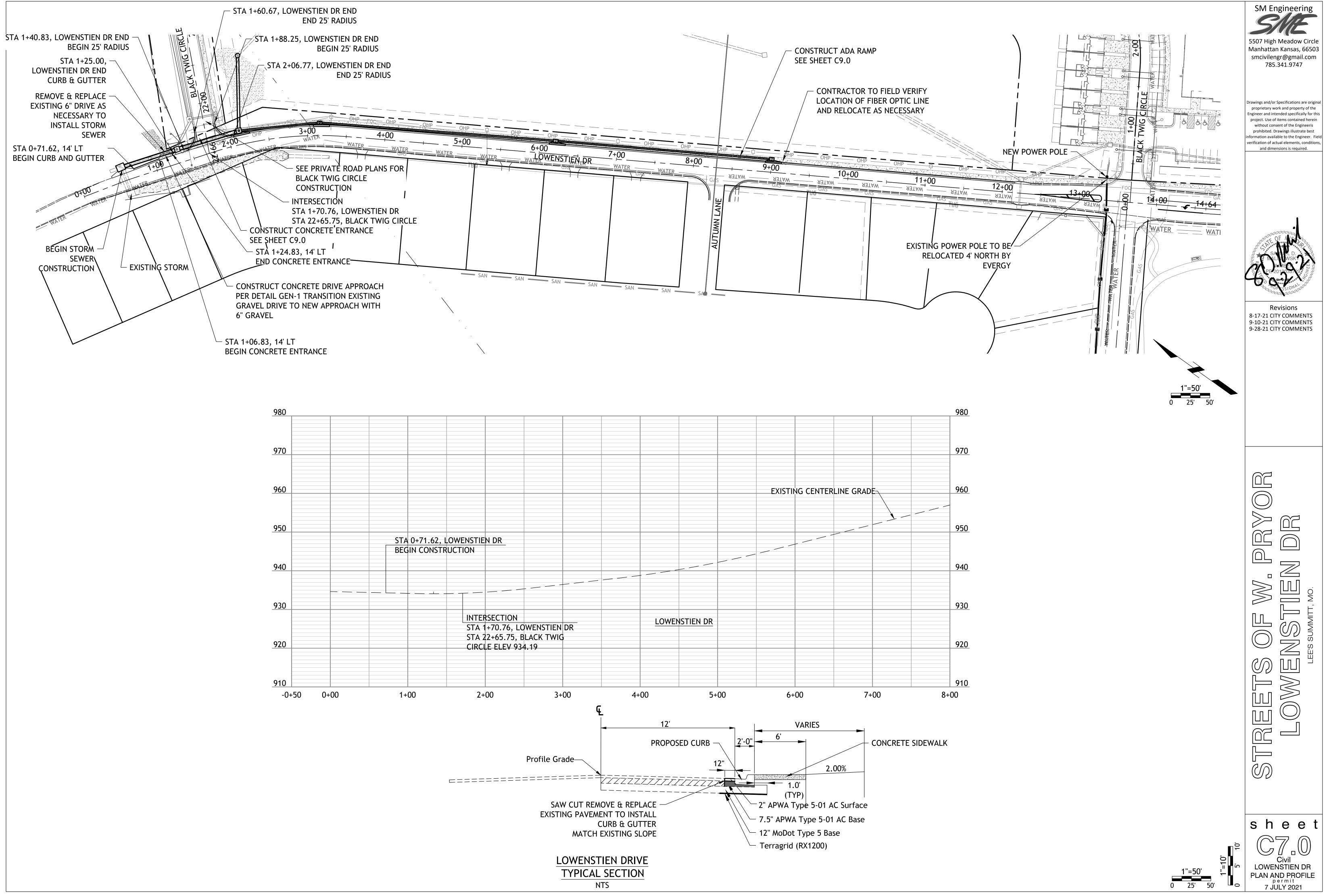
8. All manufactured BMPs such as erosion control blankets, TRMs, biodegradable logs, filter socks, synthetic sediment barriers and hydraulic erasion control shall be installed as directed by the manufacturer.

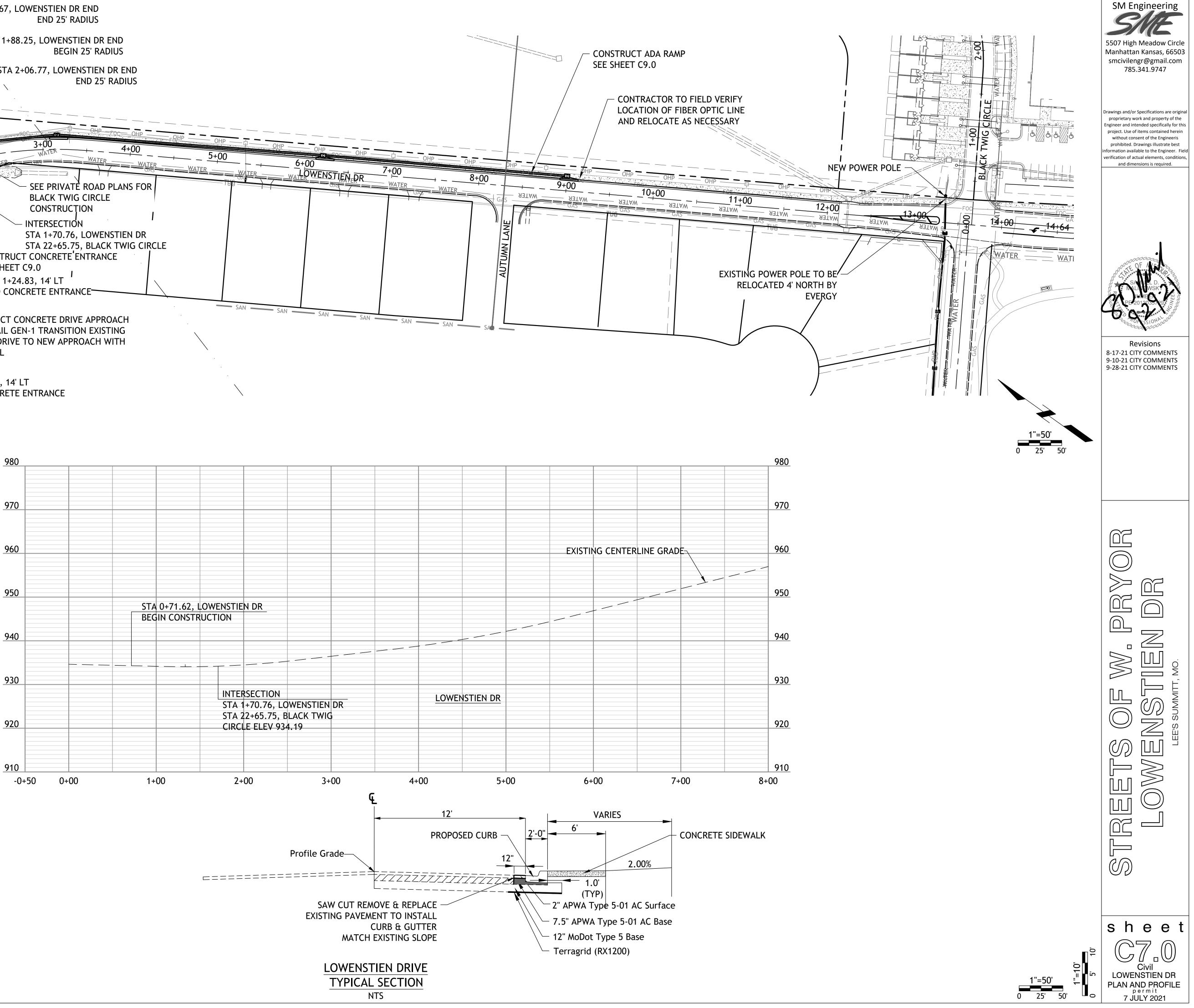
9. The above requirements are the responsibility of the permittee for the site. Responsibility may be transferred to another party by the permittee, but the permittee shall remain liable by the City of Lee's Summit if any of the above conditions are not met.

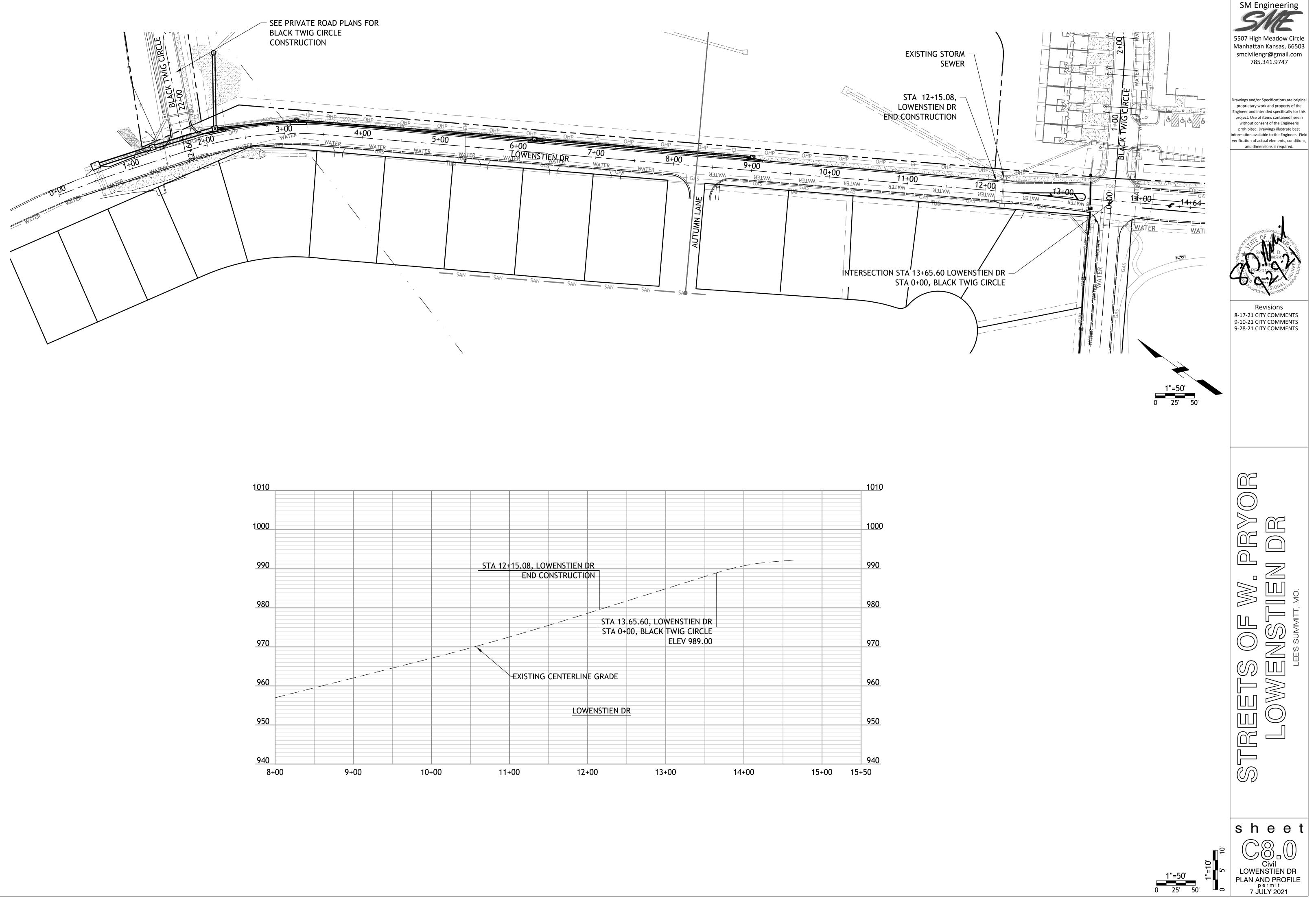


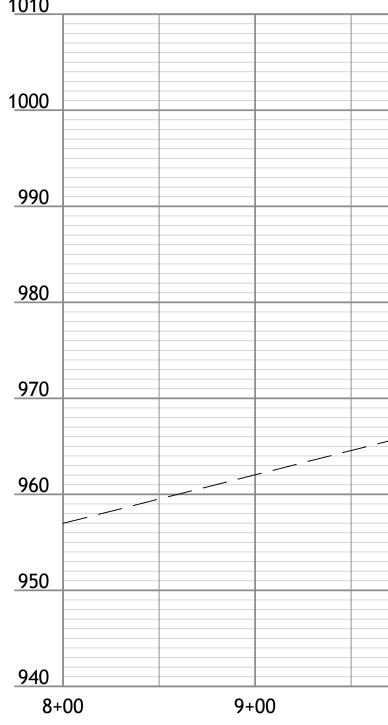


7 JULY 2021

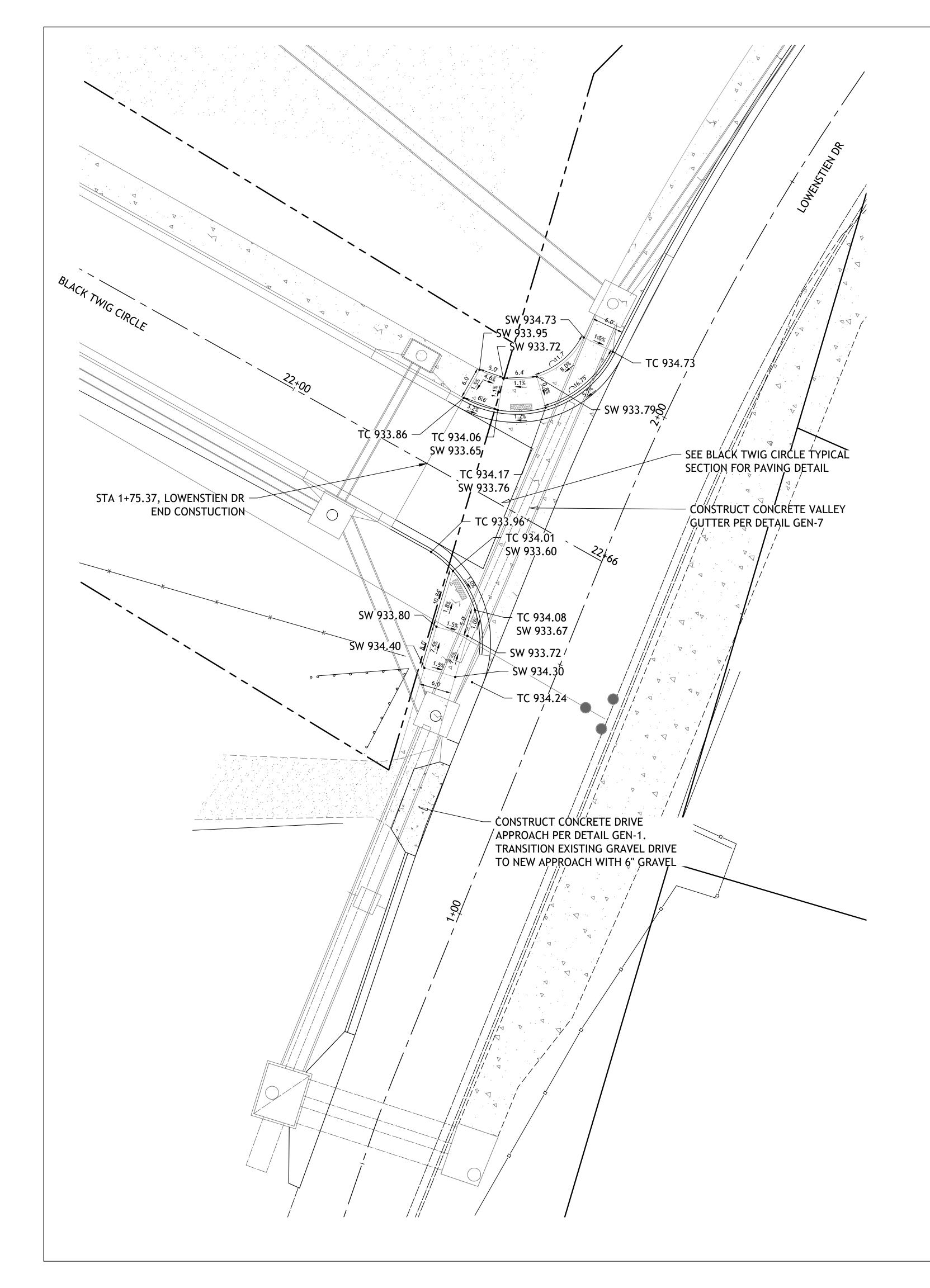


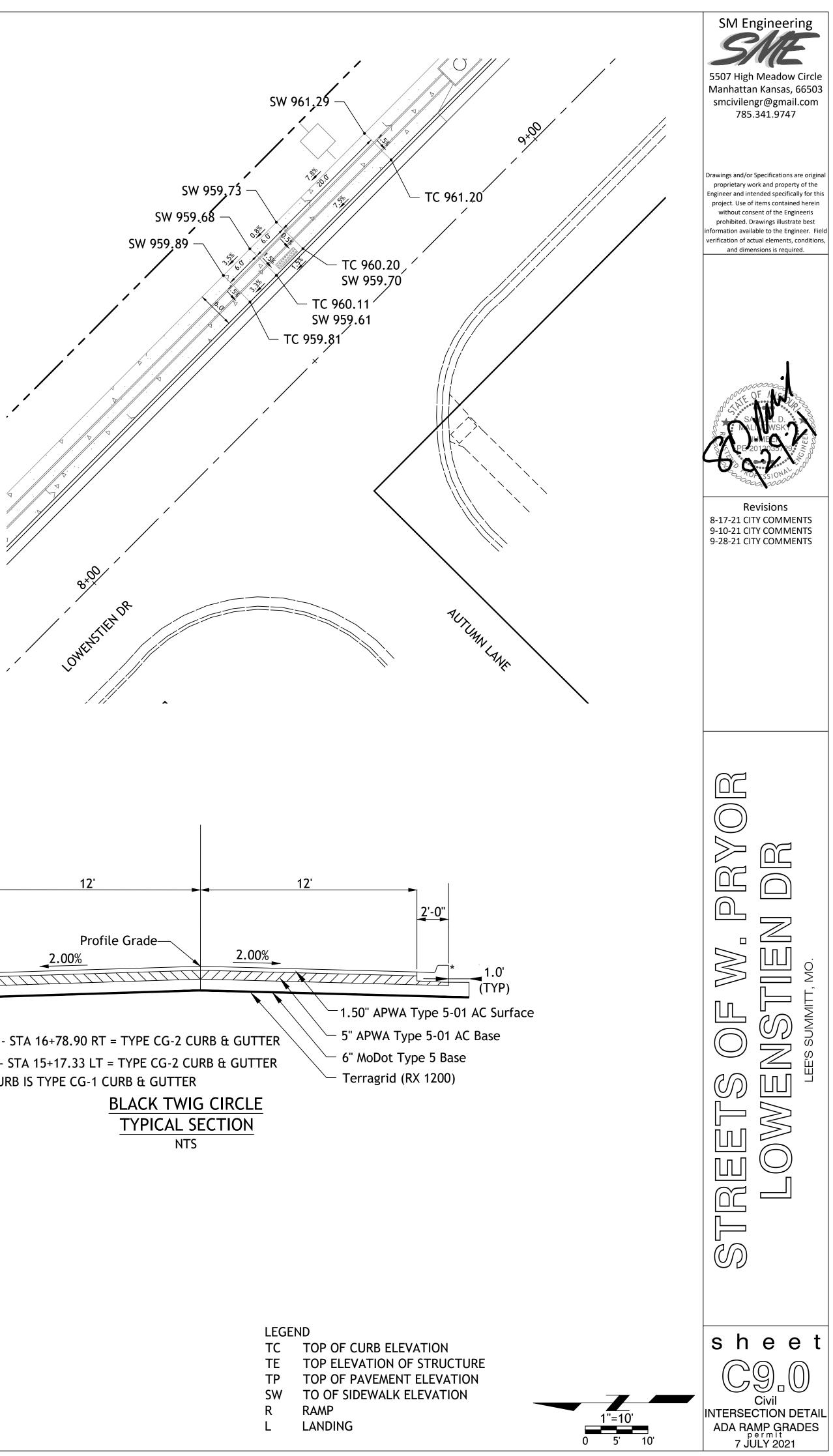


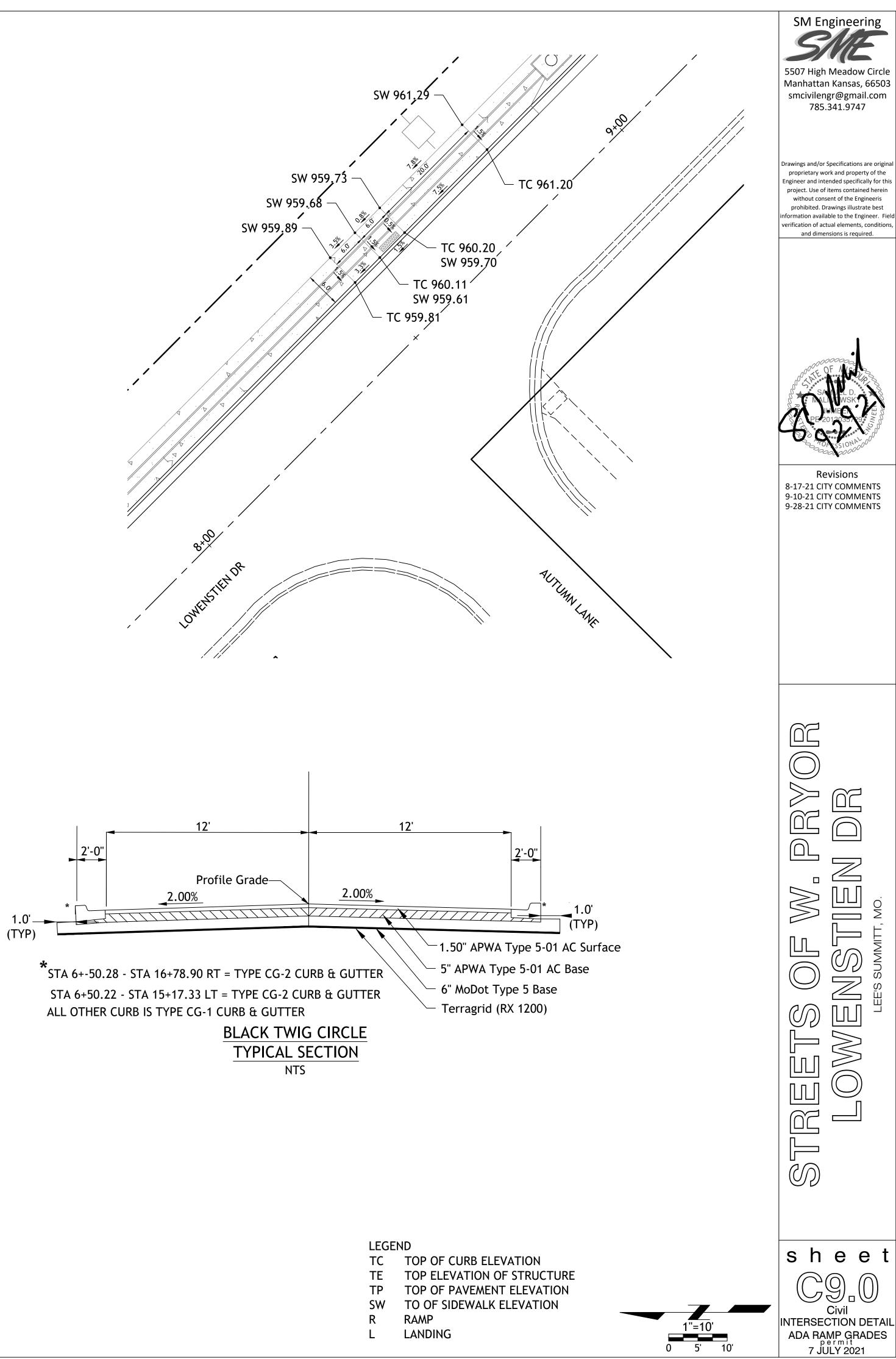


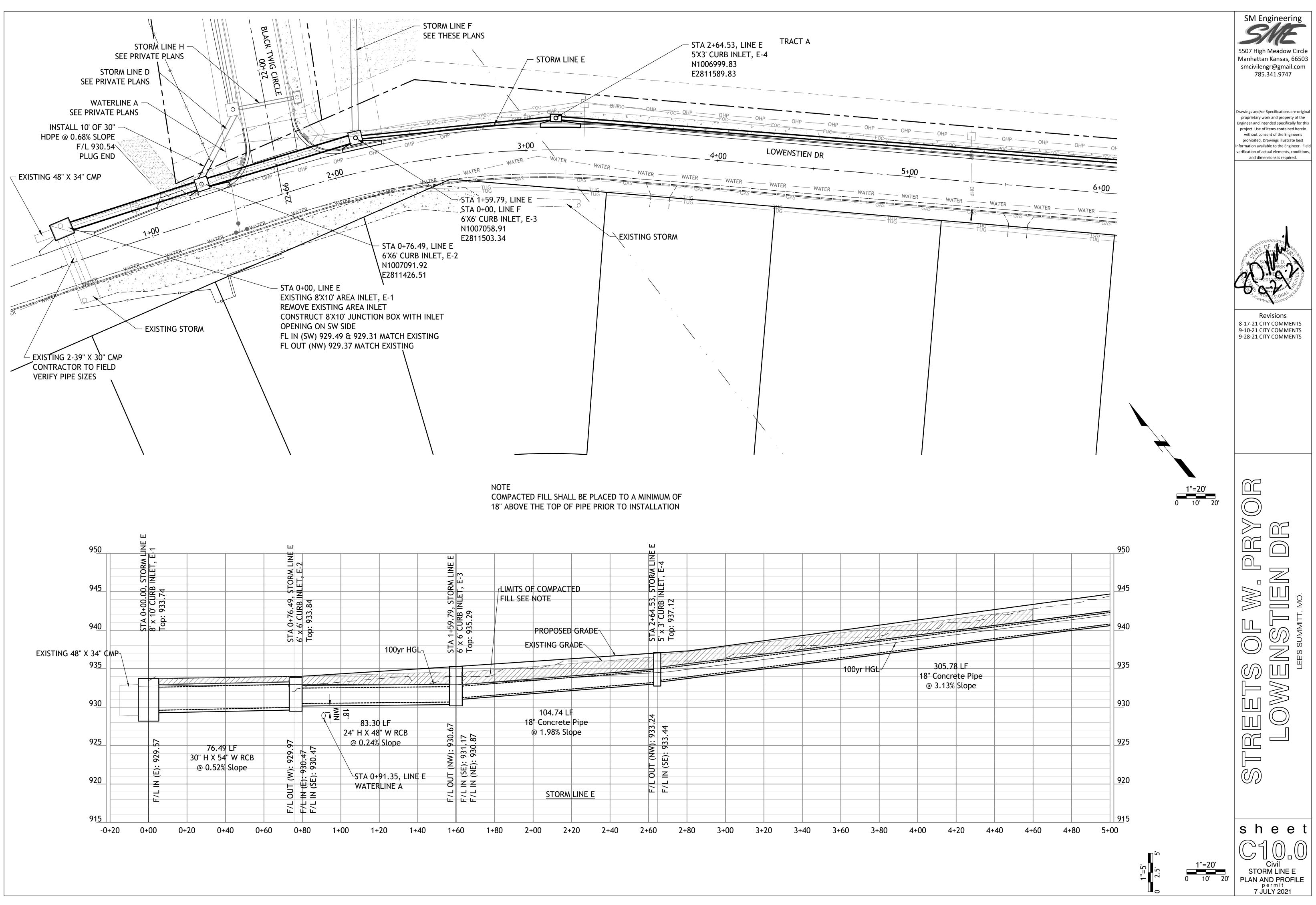


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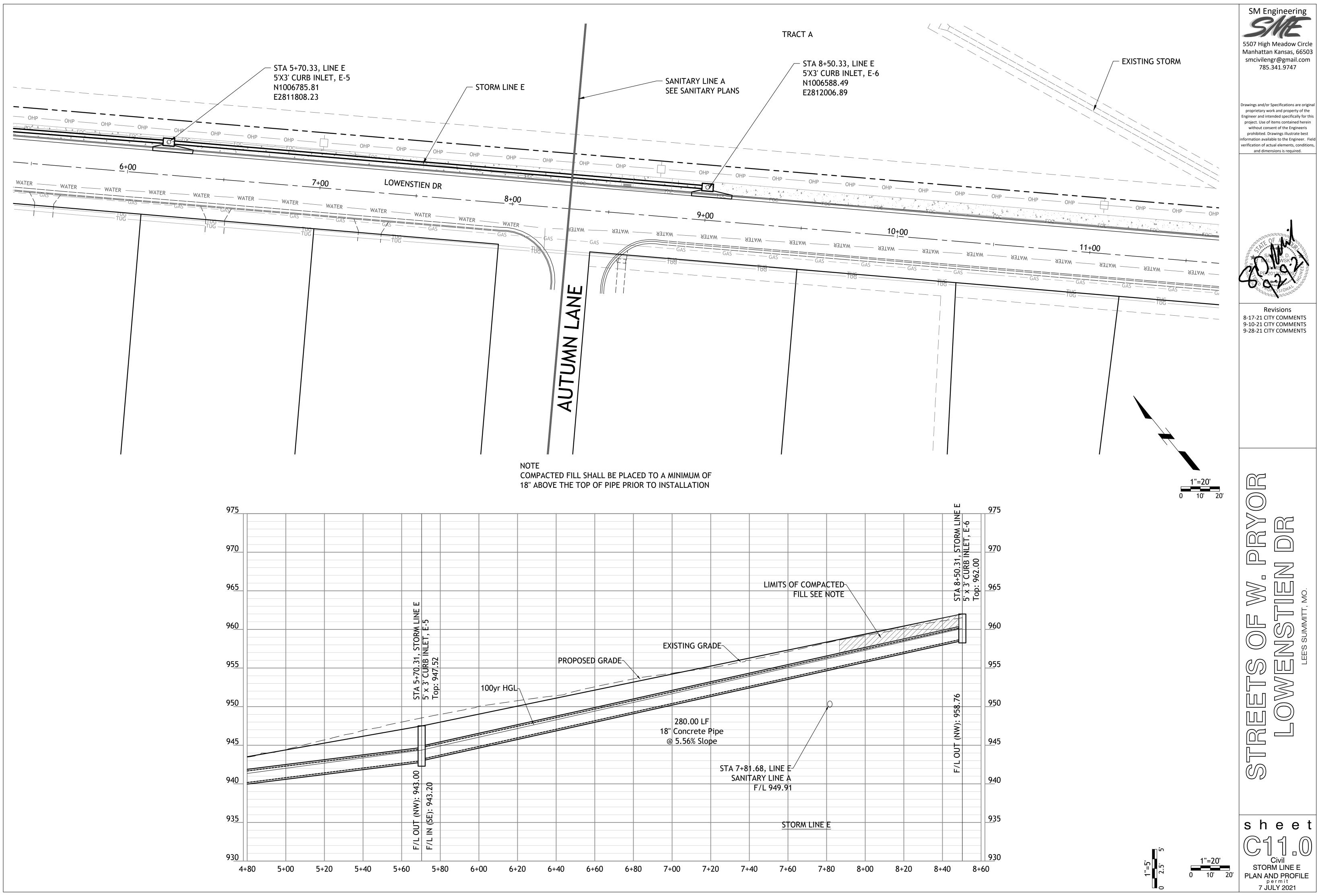




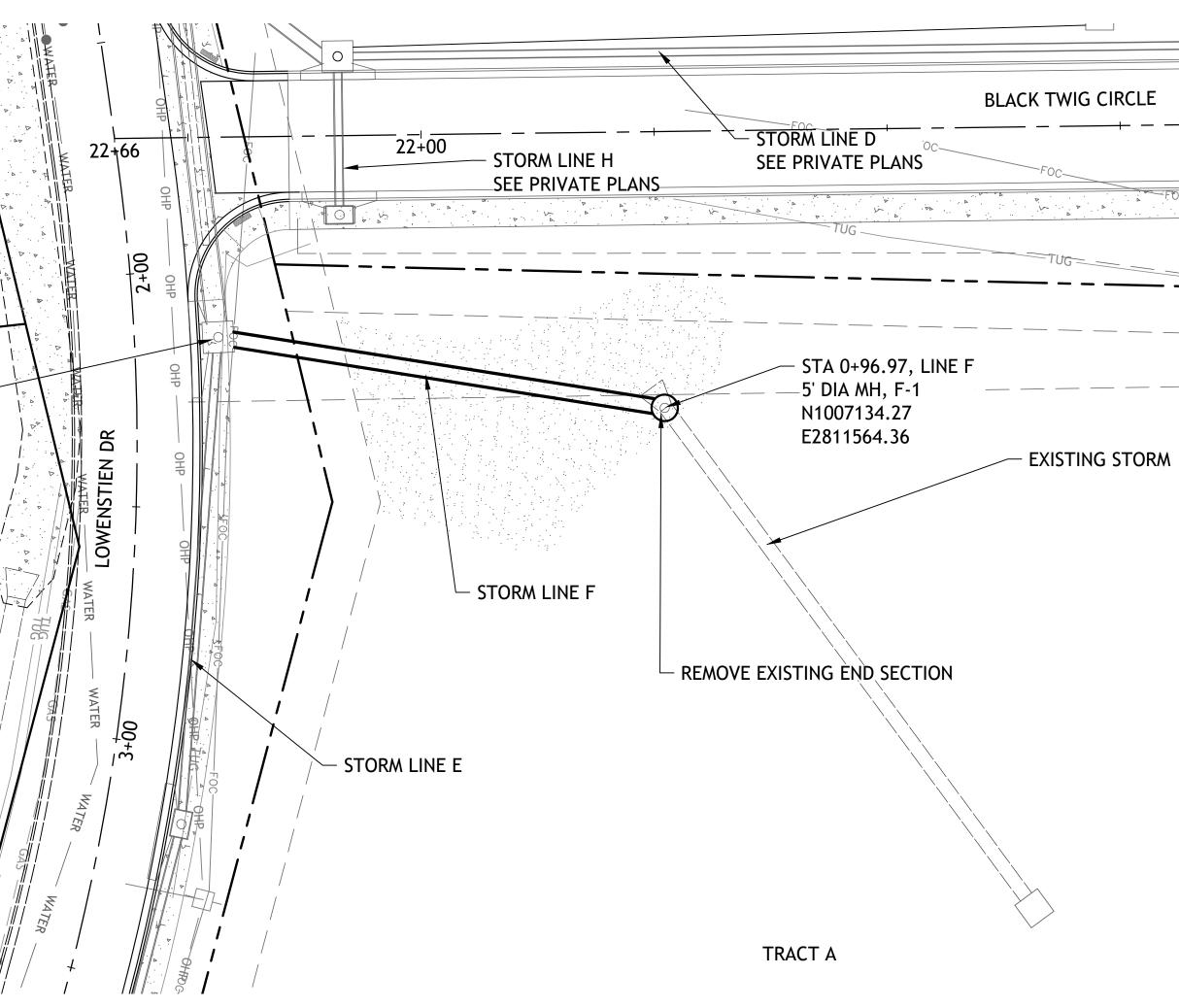




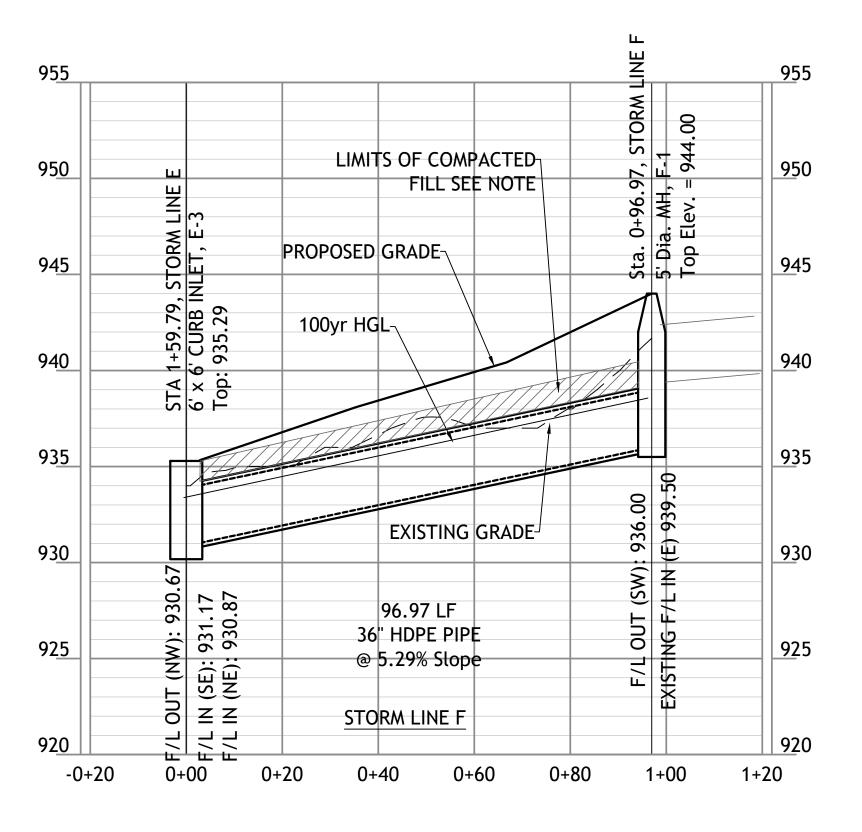
SIURM LINE E		LIMITS OF	COMPACT	ED	3, STORM LINE	r CURB INLET, E-4 937.12			
6' x 6' CURB INLET, E-3	42.688 :qo I		PROPOSED ISTING GRA	\vdash	STA 2+64.53,	5' × 3' CURI Top: 937.1			
31.17	30.87	18'	104.74 LF '' Concrete @ 1.98% Stc	Pipe	(NW): 933.24 1	6 33 44 44		100yr HGL	
5 <u>≍</u>	F/L IN (NE): 93		STORM	LINE E	F/L OUT (NV	F/L IN (SE):			



_ STA 0+00, LINE F STA 1+59.79, LINE E 6'X6' CURB INLET, E-3 N1007058.91 E2811503.34

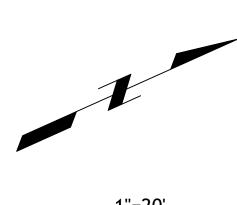


NOTE COMPACTED FILL SHALL BE PLACED TO A MINIMUM OF 18" ABOVE THE TOP OF PIPE PRIOR TO INSTALLATION



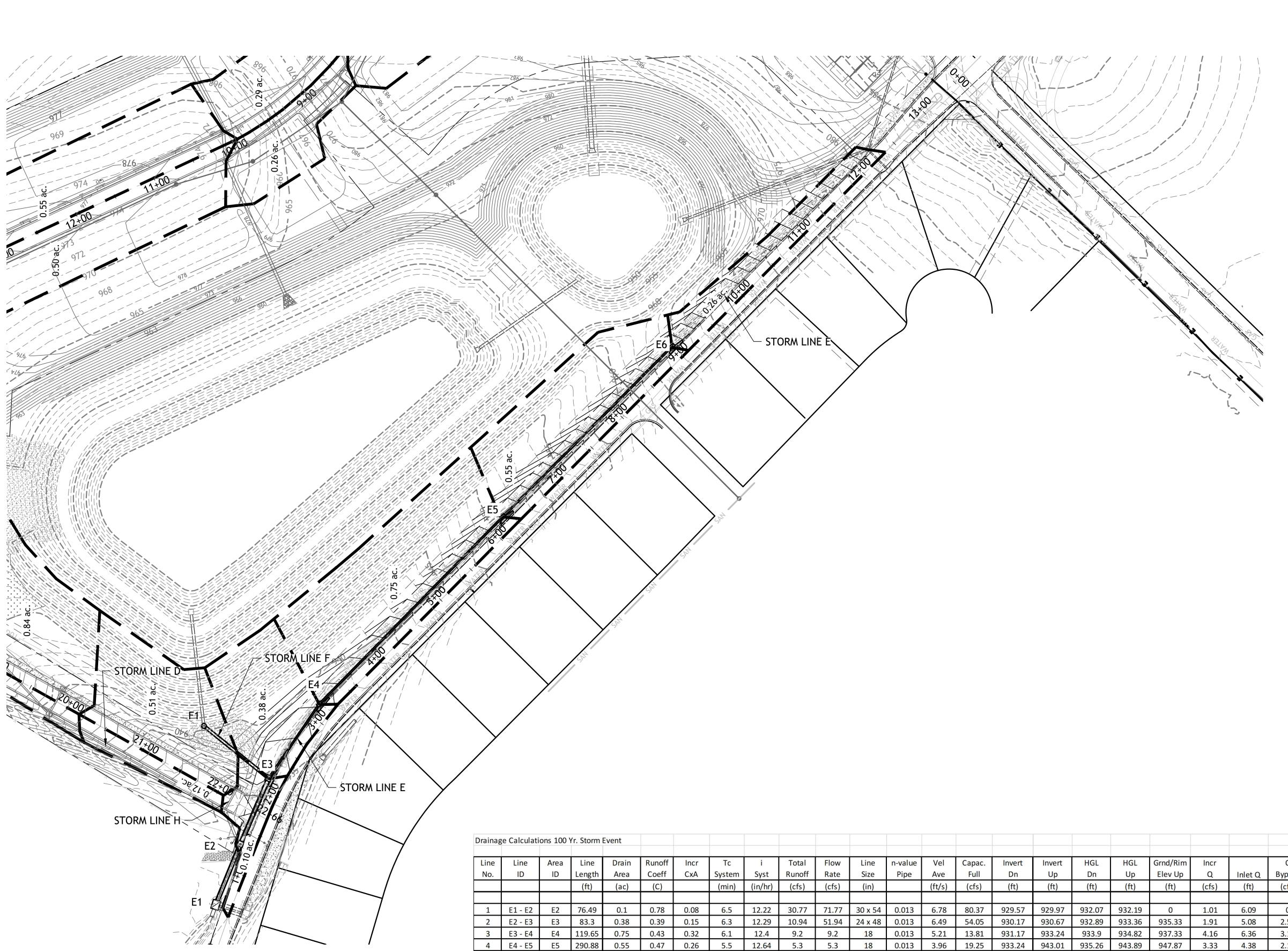
	SM Engineering
	5507 High Meadow Circle Manhattan Kansas, 66503 smcivilengr@gmail.com 785.341.9747
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	PE-2012030799
	8-17-21 CITY COMMENTS 9-10-21 CITY COMMENTS 9-28-21 CITY COMMENTS
20'	STREETS OF W. PRYOR LOWENSTIEN DR Leesumme, no.
1"=20' 0 10' 20'	sheet Civil Civil STORM LINE F PLAN AND PROFILE permit 7 JULY 2021

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1"=20' 0 10' 20'



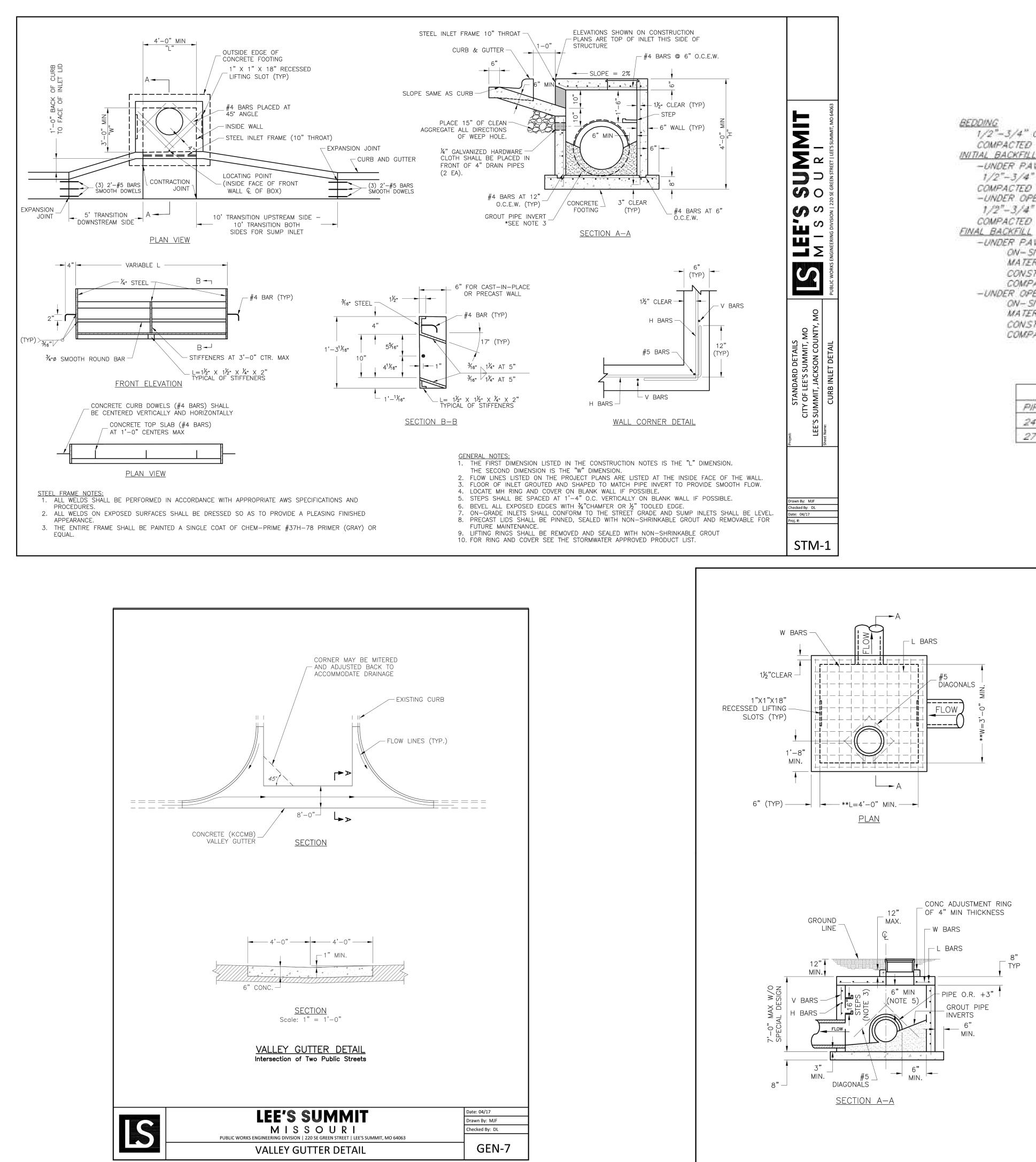


rainage	e Calculati	ons 100	rr. Storm E	vent																			
Line	Line	Area	Line	Drain	Runoff	Incr	Тс	i	Total	Flow	Line	n-value	Vel	Capac.	Invert	Invert	HGL	HGL	Grnd/Rim	Incr		Q	Gutter
No.	ID	ID	Length	Area	Coeff	CxA	System	Syst	Runoff	Rate	Size	Pipe	Ave	Full	Dn	Up	Dn	Up	Elev Up	Q	Inlet Q	Bypass	Spread
			(ft)	(ac)	(C)		(min)	(in/hr)	(cfs)	(cfs)	(in)		(ft/s)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(cfs)	(ft)	(cfs)	(ft)
1	E1 - E2	E2	76.49	0.1	0.78	0.08	6.5	12.22	30.77	71.77	30 x 54	0.013	6.78	80.37	929.57	929.97	932.07	932.19	0	1.01	6.09	0	6
2	E2 - E3	E3	83.3	0.38	0.39	0.15	6.3	12.29	10.94	51.94	24 x 48	0.013	6.49	54.05	930.17	930.67	932.89	933.36	935.33	1.91	5.08	2.54	6.3
3	E3 - E4	E4	119.65	0.75	0.43	0.32	6.1	12.4	9.2	9.2	18	0.013	5.21	13.81	931.17	933.24	<u>933.9</u>	934.82	937.33	4.16	6.36	3.18	5.2
4	E4 - E5	E5	290.88	0.55	0.47	0.26	5.5	12.64	5.3	5.3	18	0.013	3.96	19.25	933.24	943.01	935.26	943.89	947.87	3.33	4.38	2.19	4.1
5	E5 - E6	E6	280	0.26	0.62	0.16	5	12.9	2.08	2.08	18	0.013	5.93	24.76	943.2	958.76	943.5	959.31	962.17	2.08	2.08	1.04	3.1
6	E3 - F1	F1	96.97	0	0	0	0	0	0	41 *	36	0.013	7.22	148.85	931.17	936	933.71	938.04	944	41			
7	E2 - D1	D1	41.62	2.72	0.57	1.55	5	12.9	19.99	19.99	30	0.013	4.23	46.22	930.47	931	933.13	933.19	935	19.99	0.54	0	23.94

SM Engineering
5507 High Meadow Circle Manhattan Kansas, 66503 smcivilengr@gmail.com 785.341.9747
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sheet Civil DRAINAGE PLAN

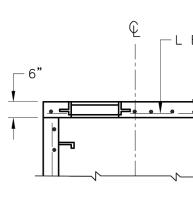
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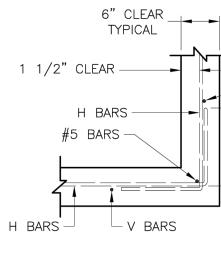


1/2"-3/4" CLEAN AGGREGATE, HAND TAMPED OR MECHANICALLY COMPACTED IN MAX. 4" LIFTS INITIAL BACKFILL -UNDER PAVED AREAS OR WITHIN 4" HORIZONTAL OF PAVED AREAS 1/2"-3/4" CLEAN AGGREGATE, HAND TAMPED OR MECHANICALLY COMPACTED IN MAX. 4" LIFTS -UNDER OPEN AREAS 1/2"-3/4" CLEAN ACGREGATE, HAND TAMPED OR MECHANICALLY COMPACTED IN MAX. 4" LIFTS -UNDER PAVED AREAS OR WITHIN 4" HORIZONTAL OF PAVED AREAS ON-SITE OR IMPORTED MATERIAL FREE OF MUCK. FROZEN MATERIAL, EXCESS MOISTURE, ORGANICS, TOPSOIL, RUBBISH, CONSTRUCTION DEBRIS, ROCK OR BRICK LARGER THAN 8". COMPACTED TO 95% OF STANDARD DENSITY PER ASTM D-698 -UNDER OPEN AREAS ON-SITE OR IMPORTED MATERIAL FREE OF MUCK, FROZEN MATERIAL, EXCESS MOISTURE, ORGANICS, TOPSOIL, RUBBISH, CONSTRUCTION DEBRIS, ROCK OR BRICK LARGER THAN 8". COMPACTED TO 90% OF STANDARD DENSITY PER ASTM D-698

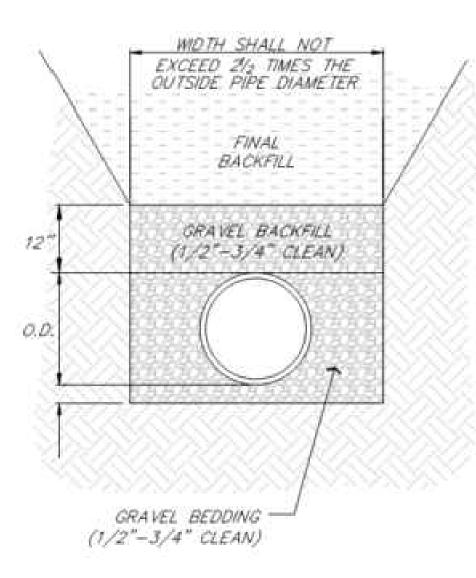
BEDDING DEF	TH BELOW PI	PE
PIPE DIAMETER	IN SOIL	IN .
24" AND LESS	6"	6"
27" THRU 60"	6"	.97



SLAB TOP ALTERNATE FOR JUNCTION BOX (SHALLOW)



WALL CORNER DETAIL



ROCK 1.14 -

PIPE BEDDING DETAIL

NOT TO SCALE



L BARS GROUND LINE — W BARS

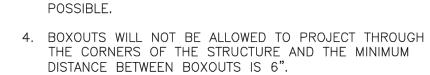
** INCREASE IN MULTIPLES OF 6" (7'-0") MAX WITHOUT SPECIAL DESIGN. (SEE PROJECT PLANS FOR DETAILS)

<u>REINFORCING</u>

BARS	BAR SIZE	SPACING (IN.)
Н	4	12
V	4	12
L	5	6
W	5	6

-V BARS

(TYP)



2. USE 3/4" CHAMFER STRIP OR 1/2" R EDGER TOOL ON ALL

CASTING TO INVERT EXCEEDS 4' ON BLANK WALL IF

3. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF

GENERAL NOTES: 1. LOCATE RING AND COVER ON BLANK WALL.

EXPOSED CONCRETE CORNERS.

- 5. THE MINIMUM REINFORCING SHALL BE 1 H-BAR OVER A CAST-IN-PLACE PIPE AND 2 H-BARS OVER A PRECAST BOXOUT.
- 8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
- 9. REINFORCING OF COVERS IN STREETS REQUIRE SPECIAL DESIGN.
- 10. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

SM Engineering 5507 High Meadow Circle Manhattan Kansas, 66503 smcivilengr@gmail.com 785.341.9747
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STREETS OF W. PRYOR LOWENSTIEN DR Lees summt, mo.
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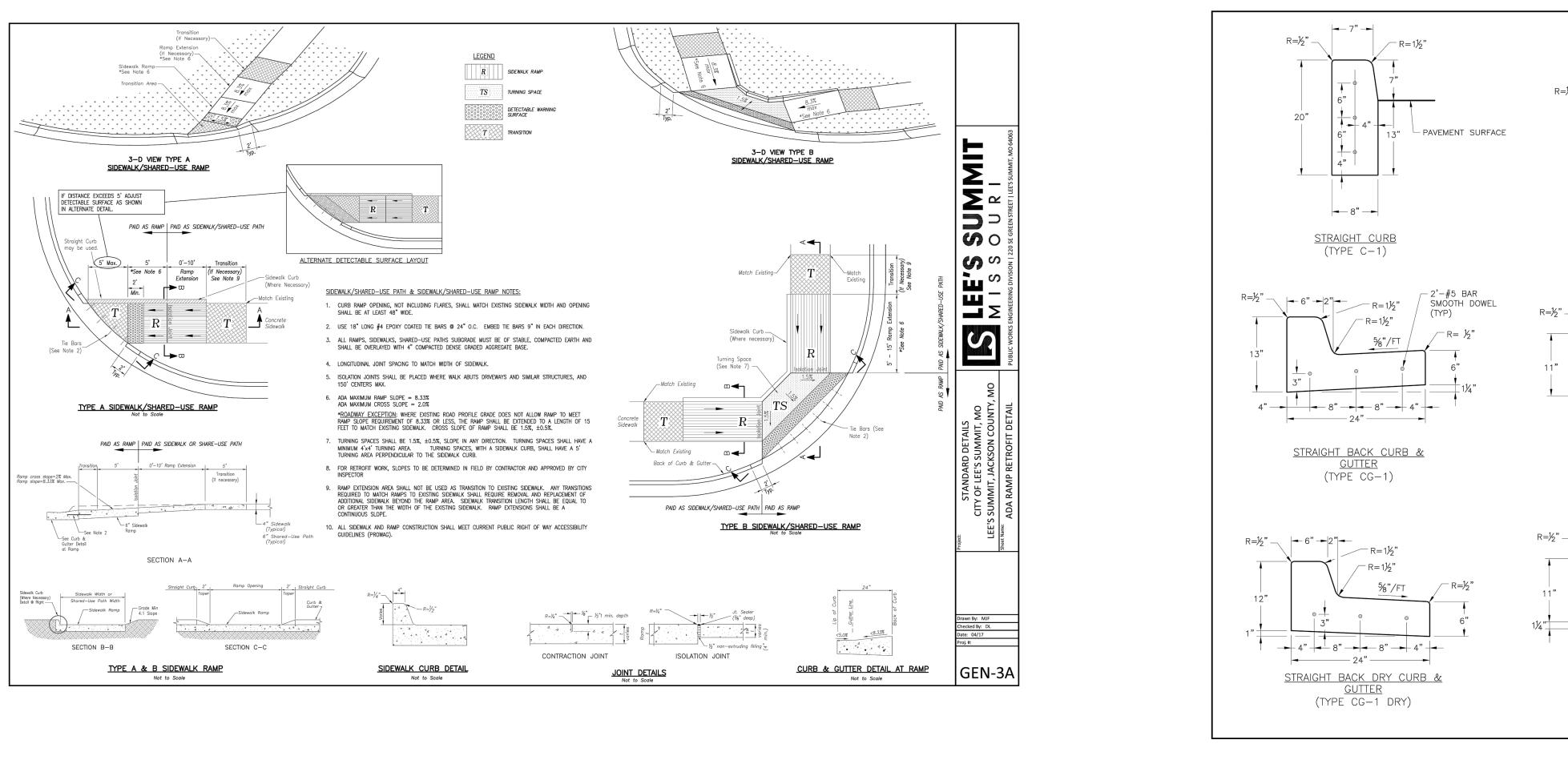
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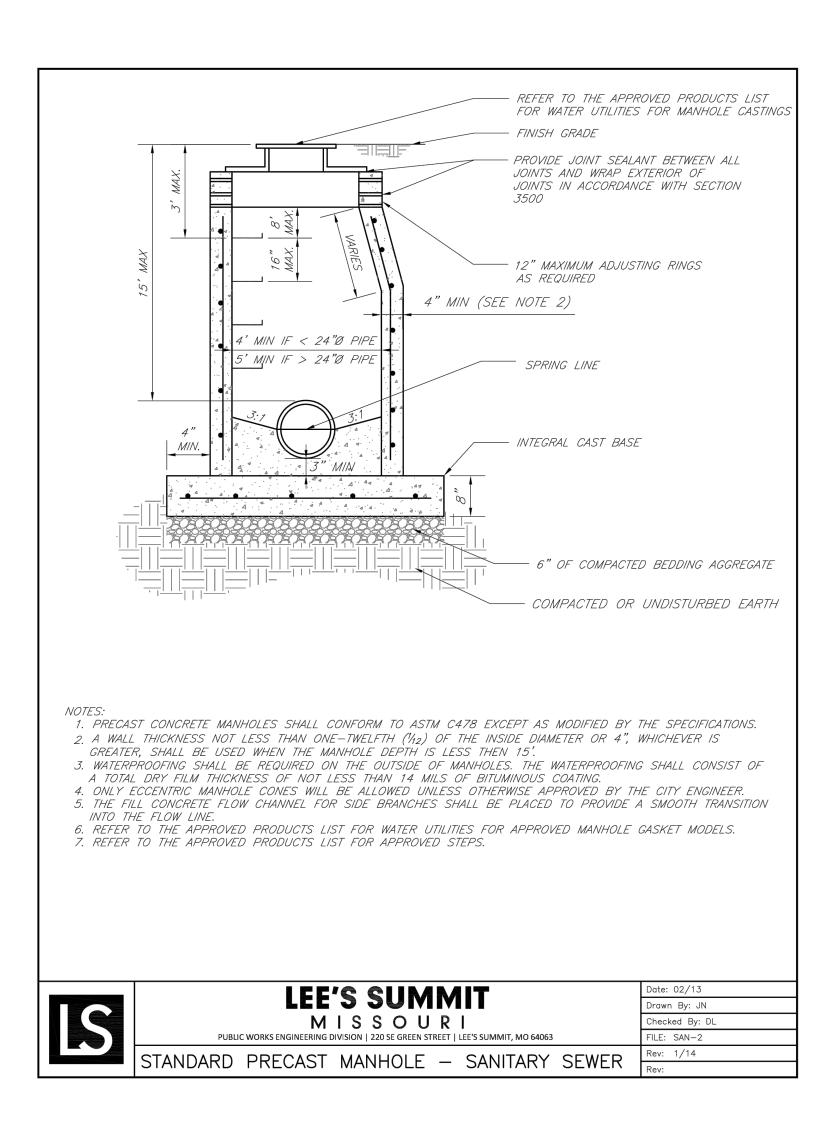
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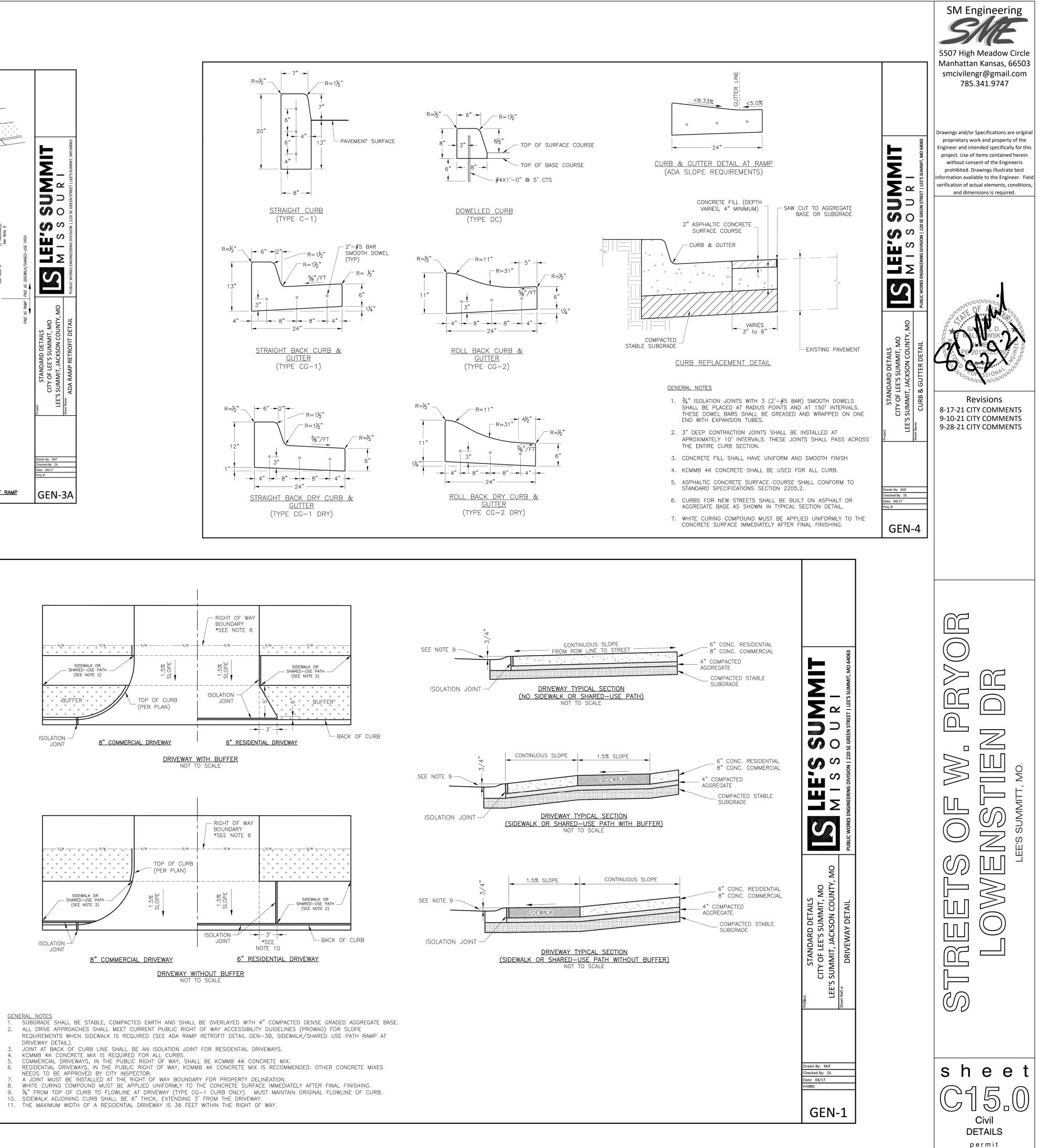
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cked By: DL

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7 JULY 2021