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.

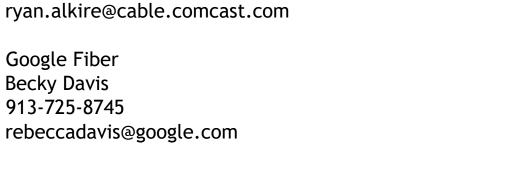
TIME. HOWEVER, NEITHER SM ENGINEERING NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE SM ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

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

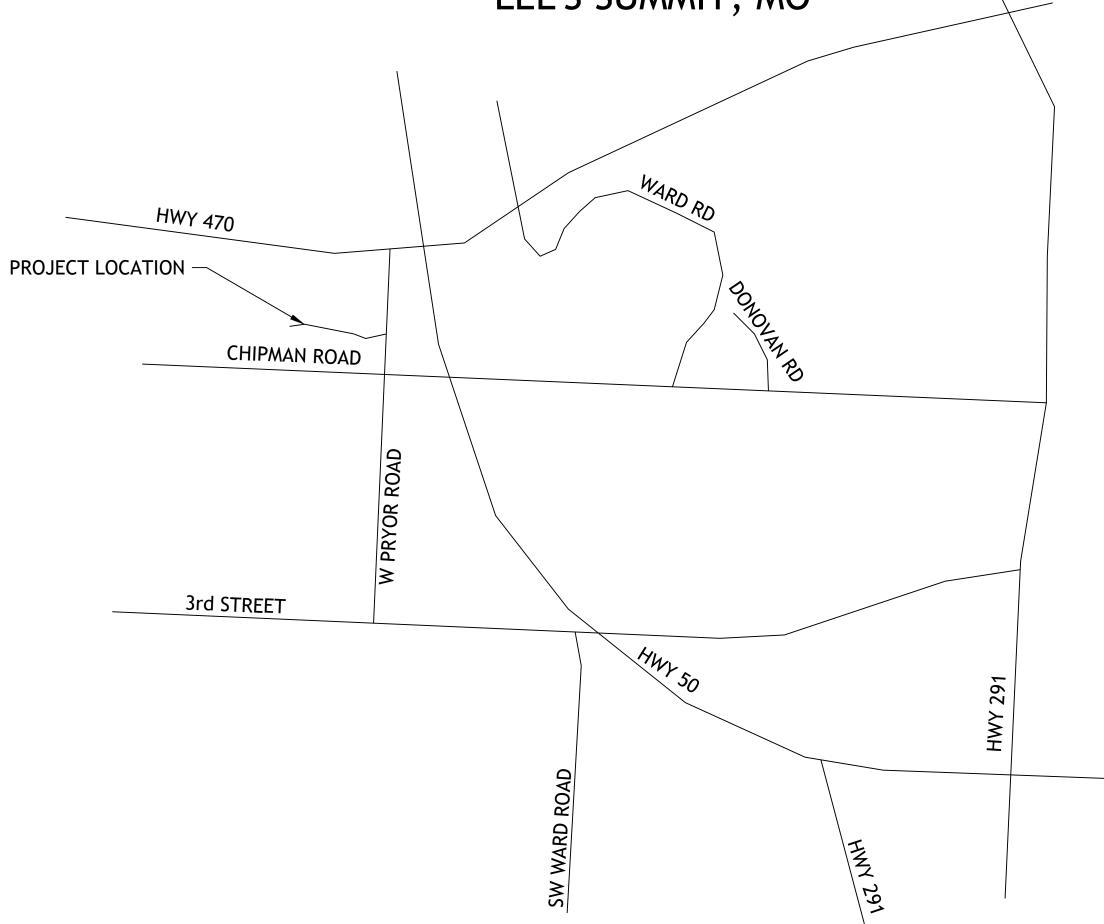
913-347-4310 Nathan.michael@evergy.com Gas Service Spire

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

AS-BUILTS SME 5-3-23

DEVELOPER

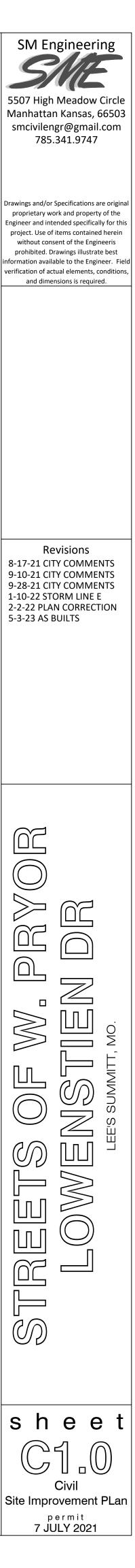
SWP III, LLC C/O DRAKE DEVELOPMENT, LLC 7200 W 132nd ST, SUITE 150 OVERLAND PARK, KS 66213 913-662-2630

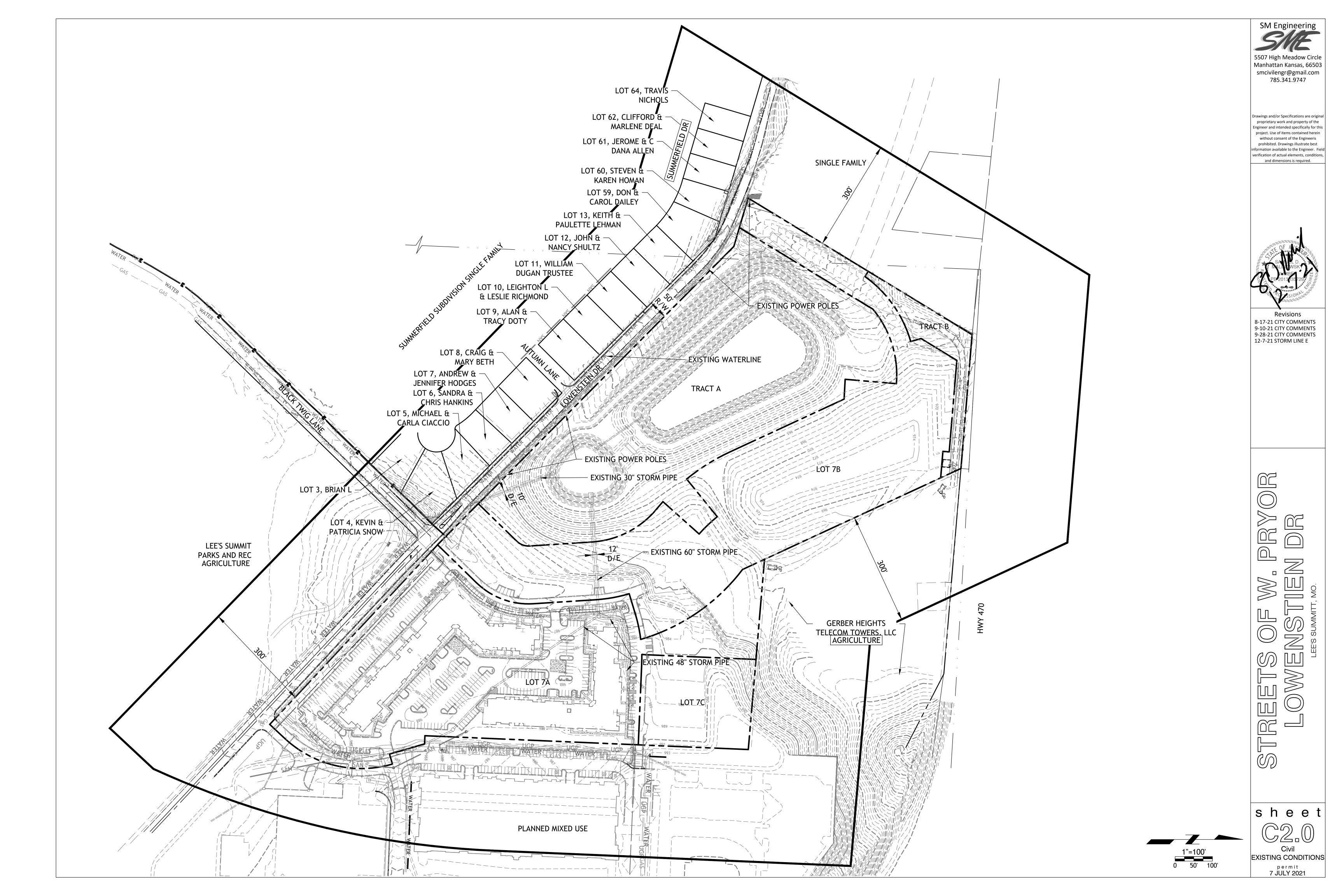
ENGINEER

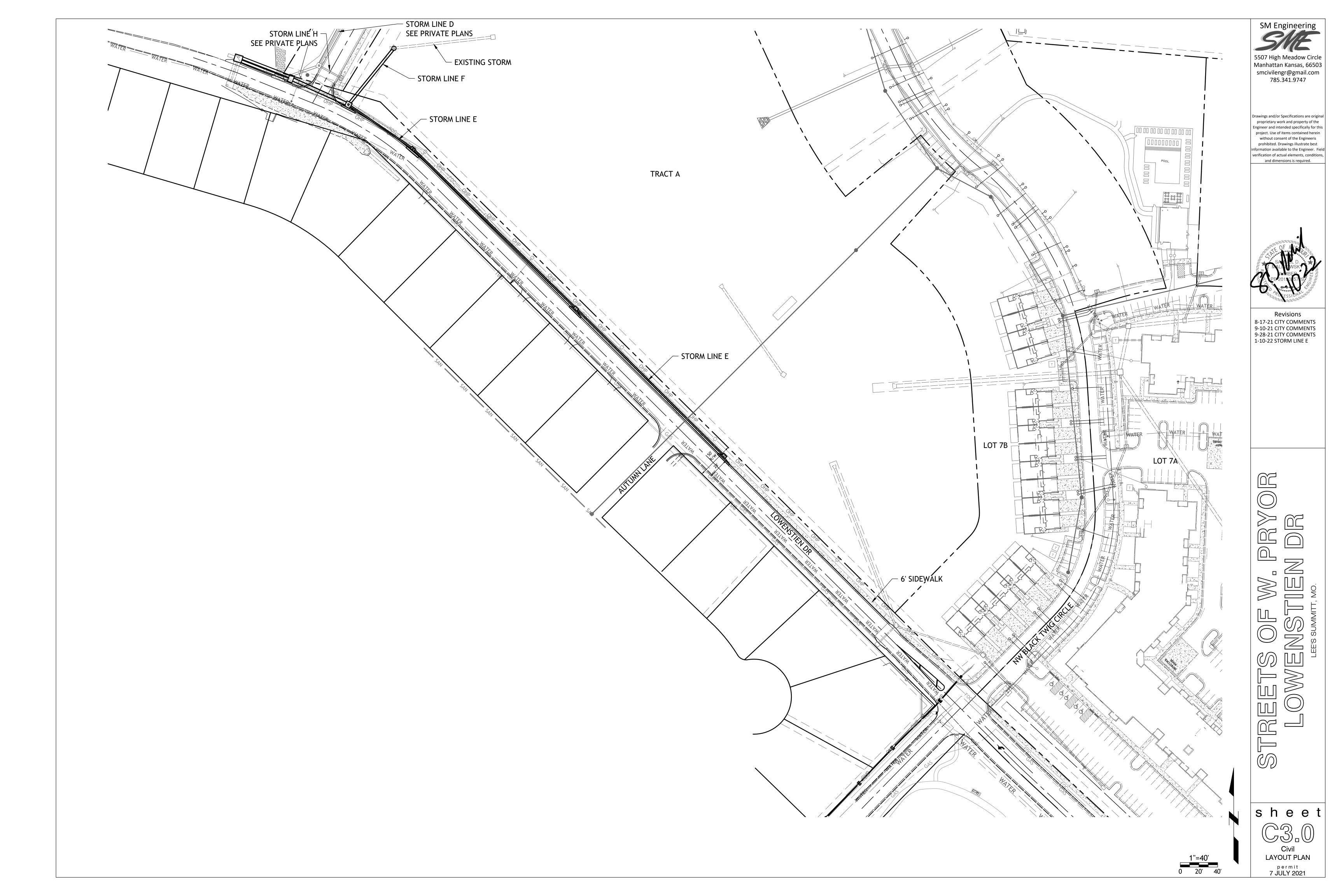
SM ENGINEERING SAM MALINOWSKY 5507 HIGH MEADOW CIRCLE MANHATTAN KANSAS, 66503 SMCIVILENGR@GMAIL.COM 785.341.9747

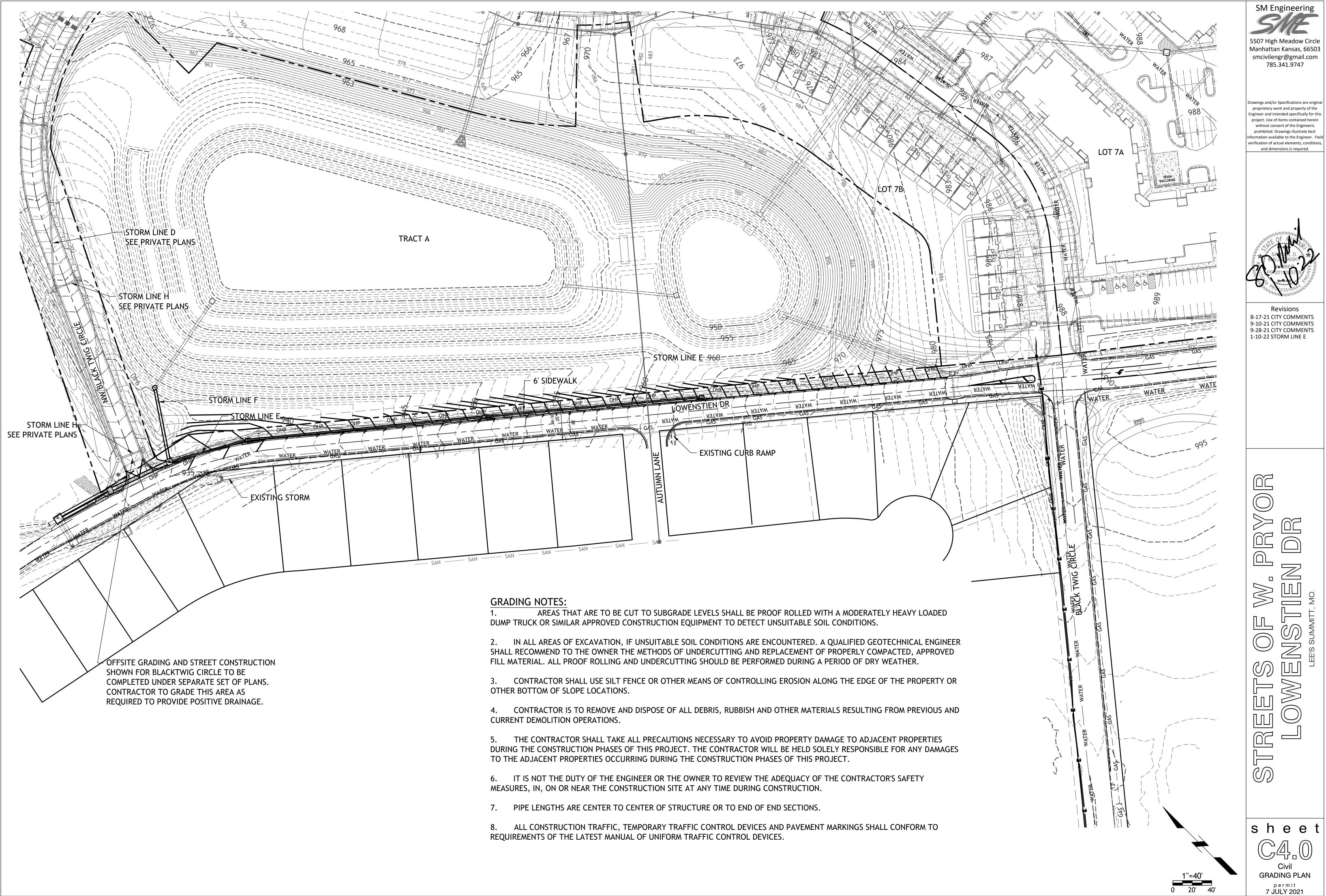


SAMUEL D. MALINOWSKY **PROFESSIONAL ENGINEEER**









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.

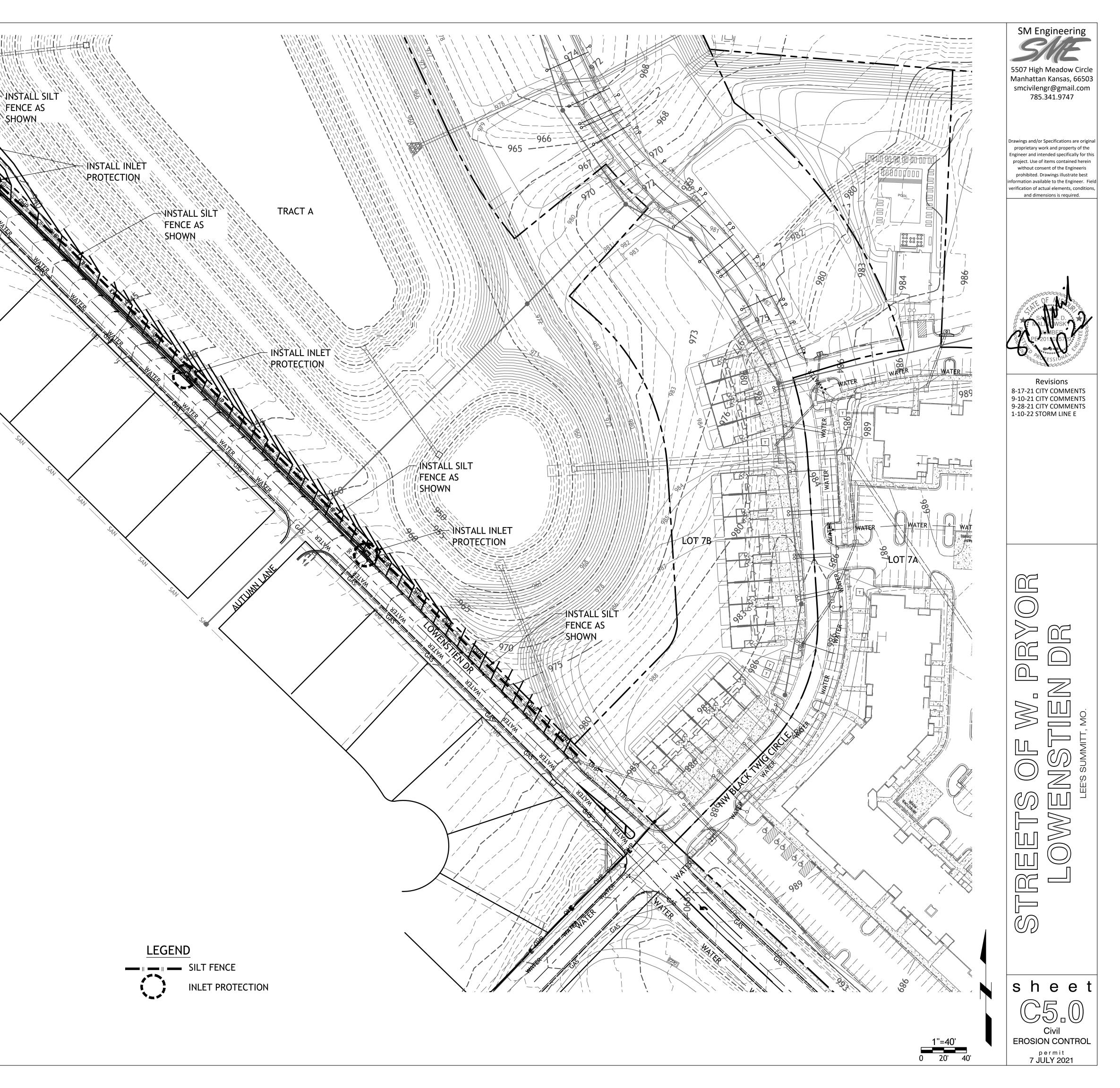
4. Erosion and pollution control shall be provided for the duration of a project. All installed erosion and pollution control BMPs shall be maintained in a manner that preserves their effectiveness. If the City determines that the BMPs in place do not provide adequate erosion and pollution control at 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.

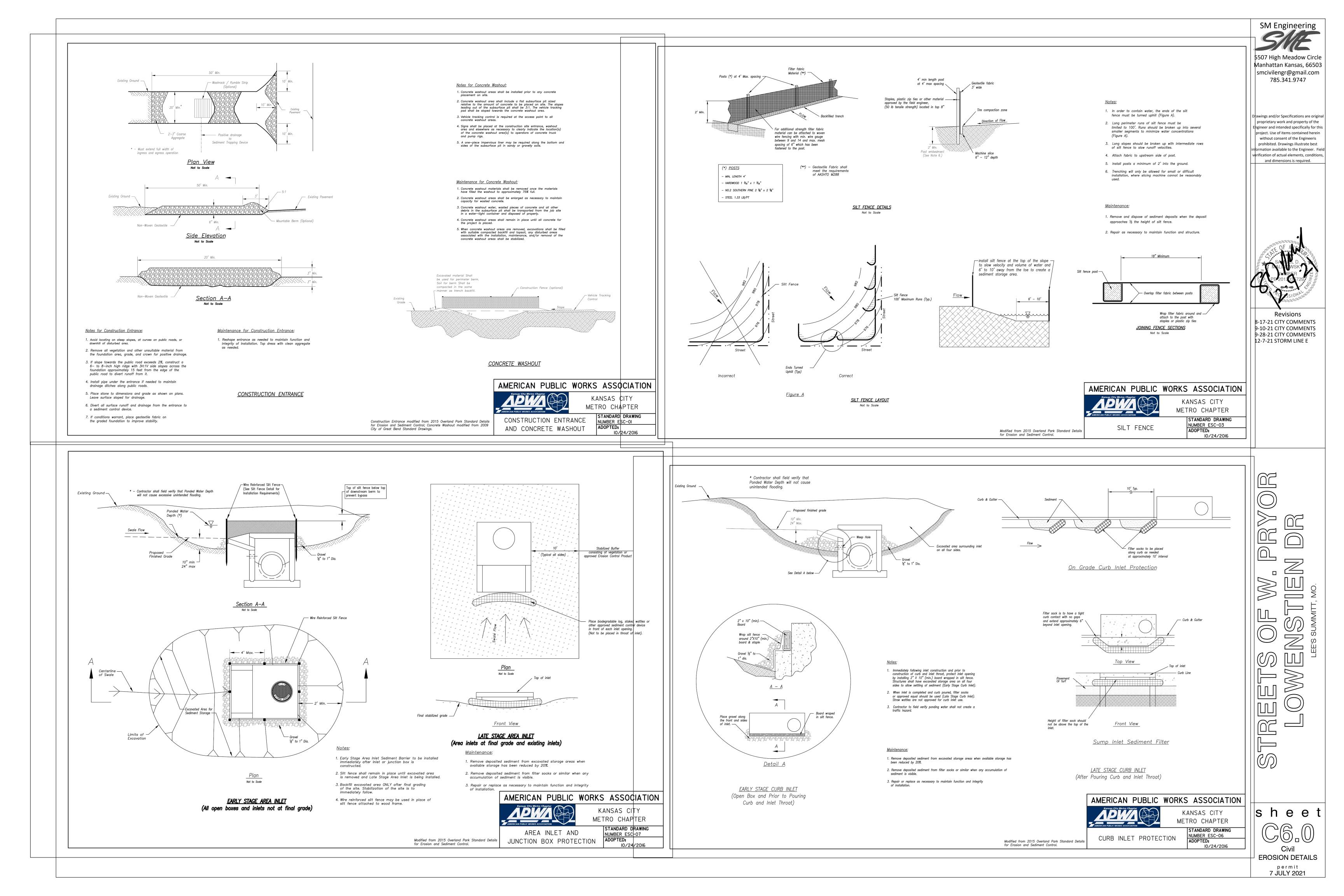
6. Silt fences and sediment control BMPs which are shown along the back of curb must be installed within two weeks of curb backfill and prior to placement of base asphalt.
Exact locations of these erosion control methods may be field adjusted to minimize conflicts with utility construction.
However,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

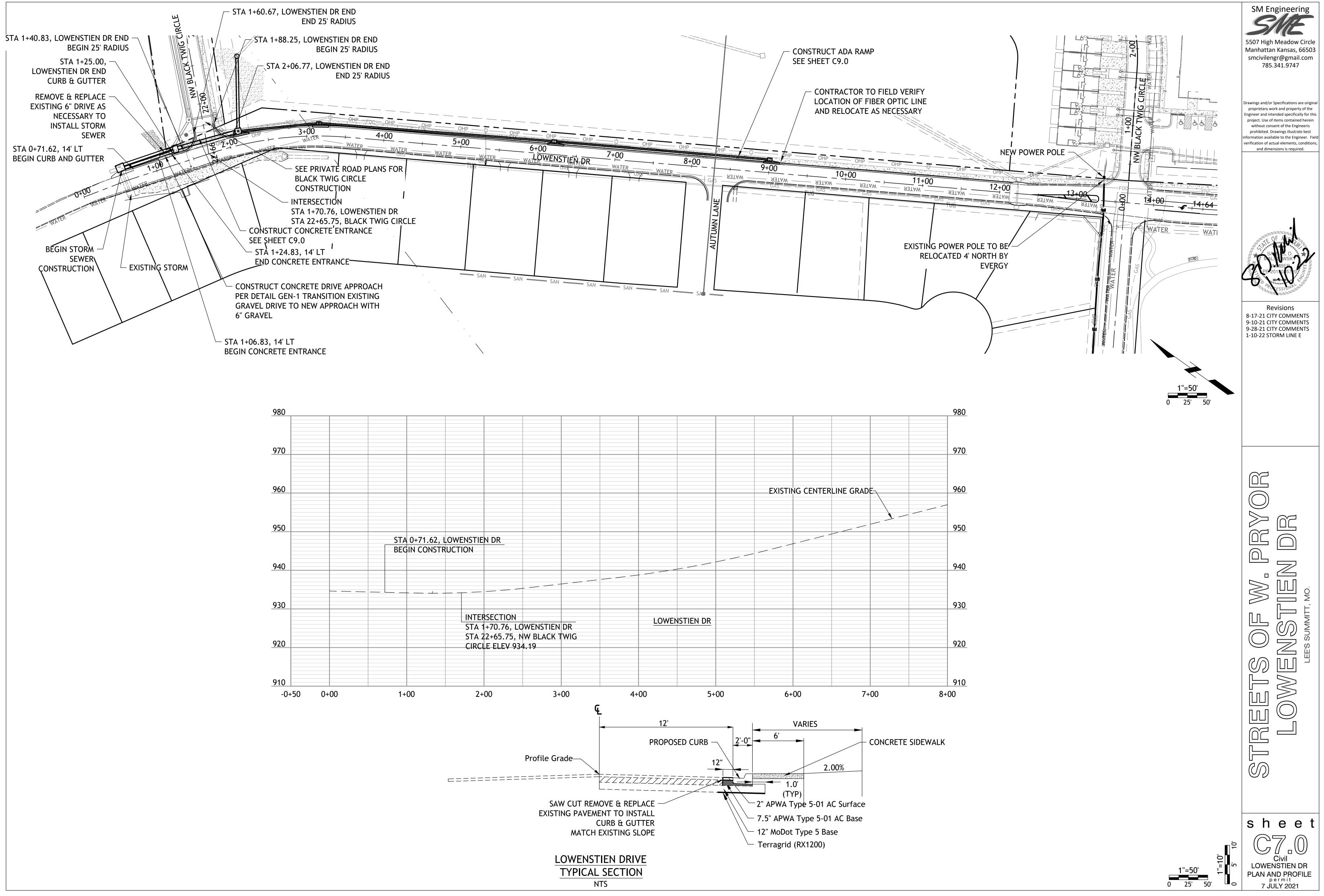
7. Required sediment basins and traps shall be installed as early as possible during mass grading. Sediment basins and traps shall be cleaned out when the sediment capacity has been reduced by 20% of its original design volume.

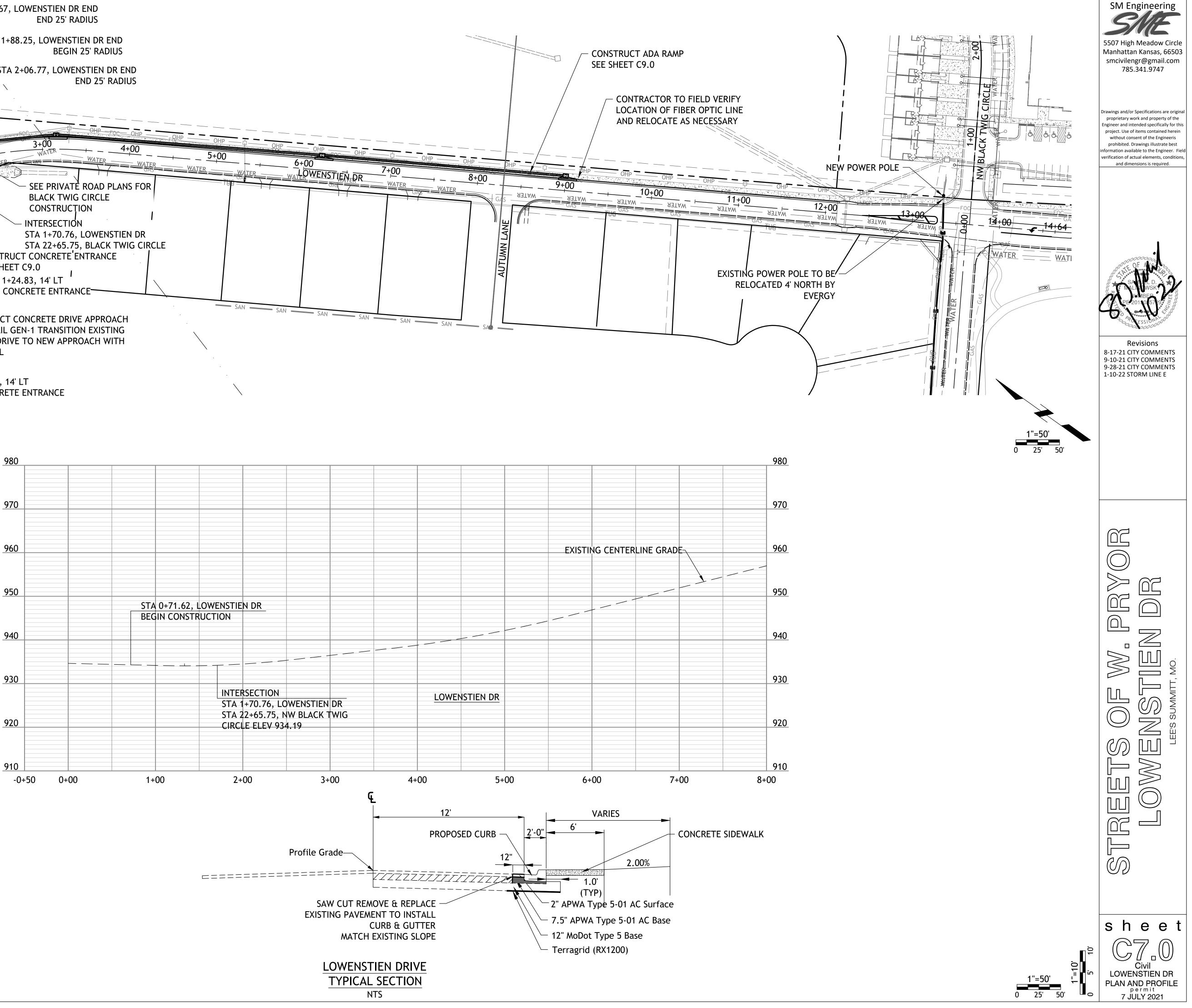
8. All manufactured BMPs such as erosion control blankets, TRMs, biodegradable logs, filter socks, synthetic sediment barriers and hydraulic erasion control shall be installed as directed by the manufacturer.

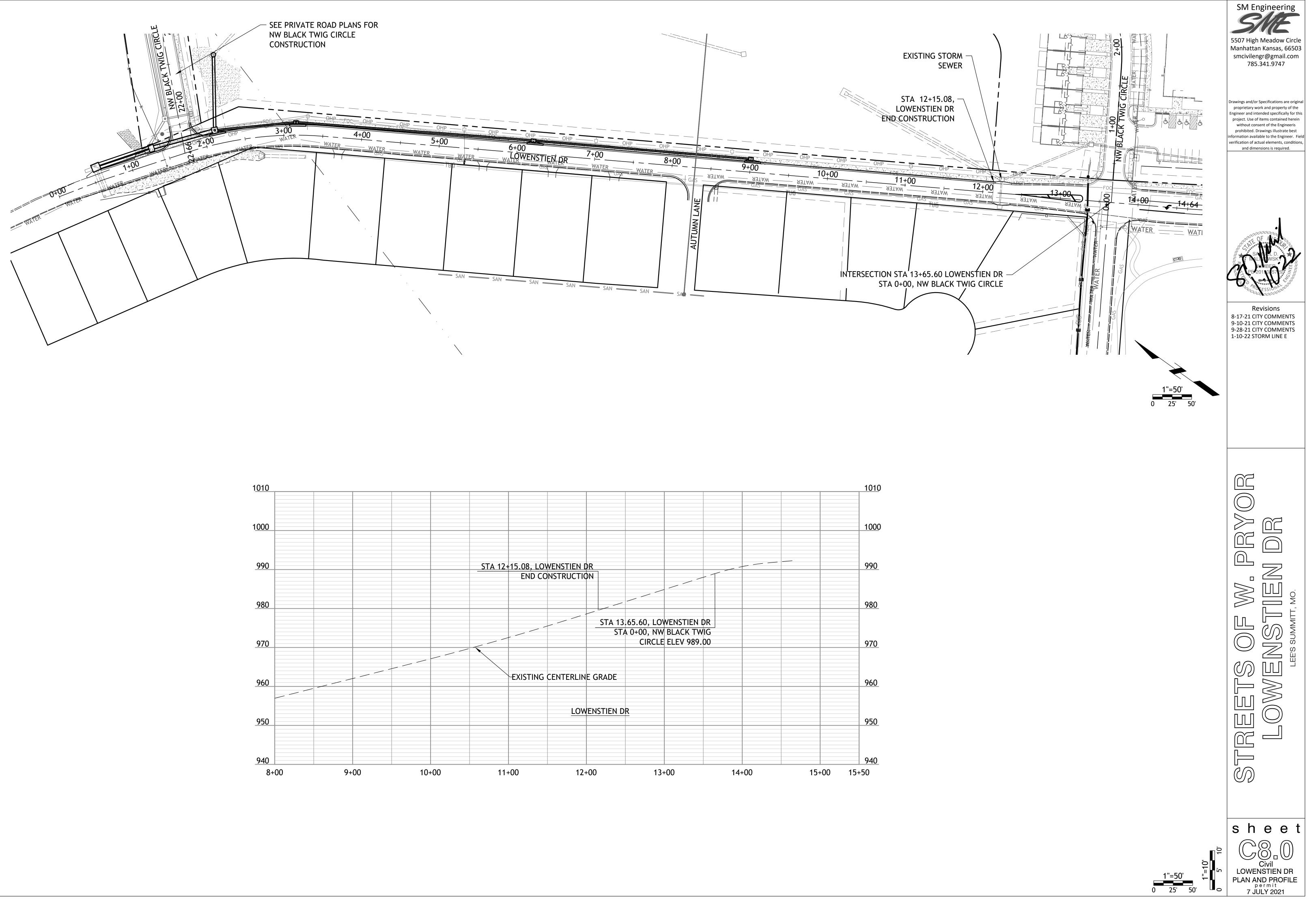
9. The above requirements are the responsibility of the permittee for the site. Responsibility may be transferred to another party by the permittee, but the permittee shall remain liable by the City of Lee's Summit if any of the above conditions are not met.

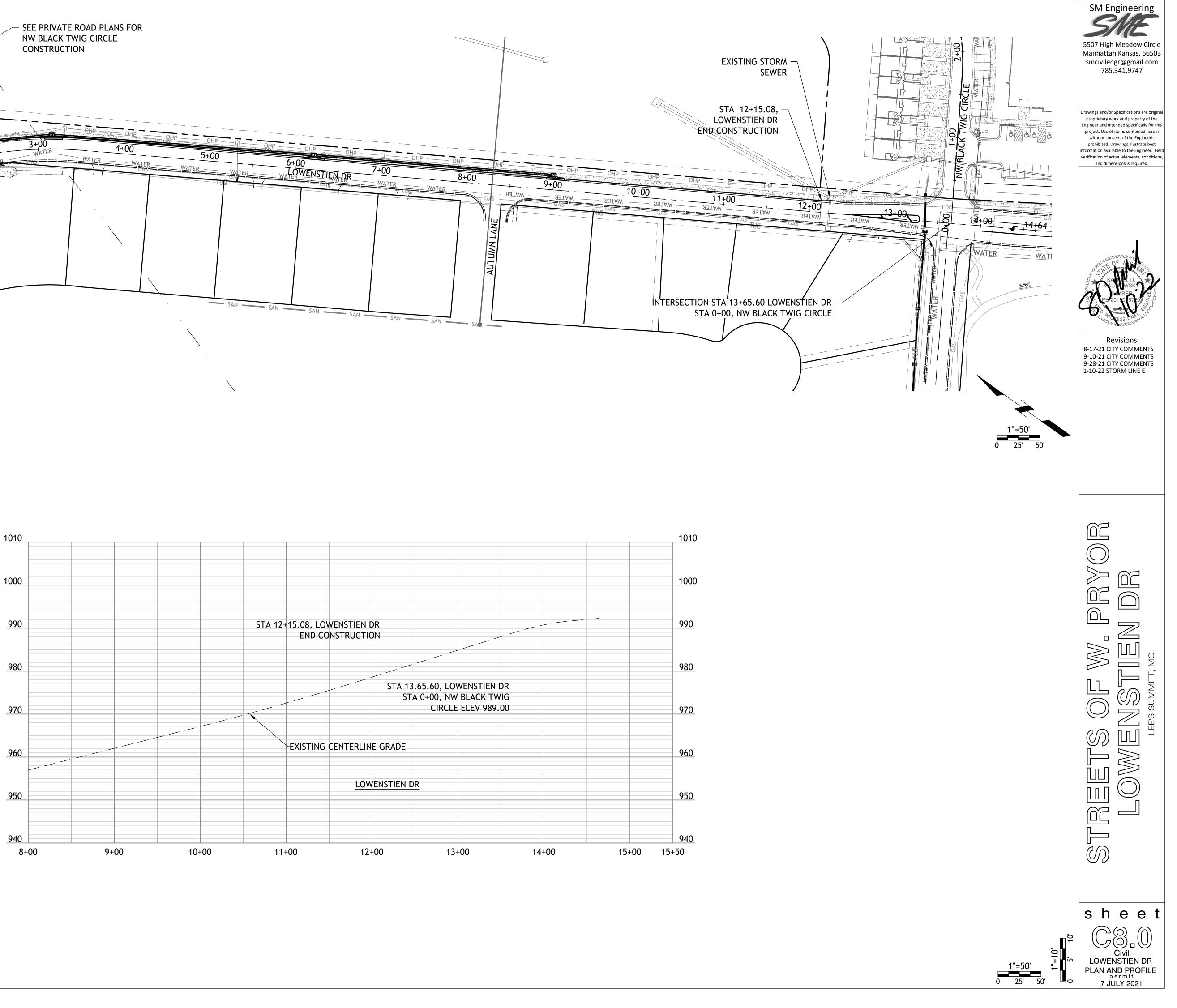


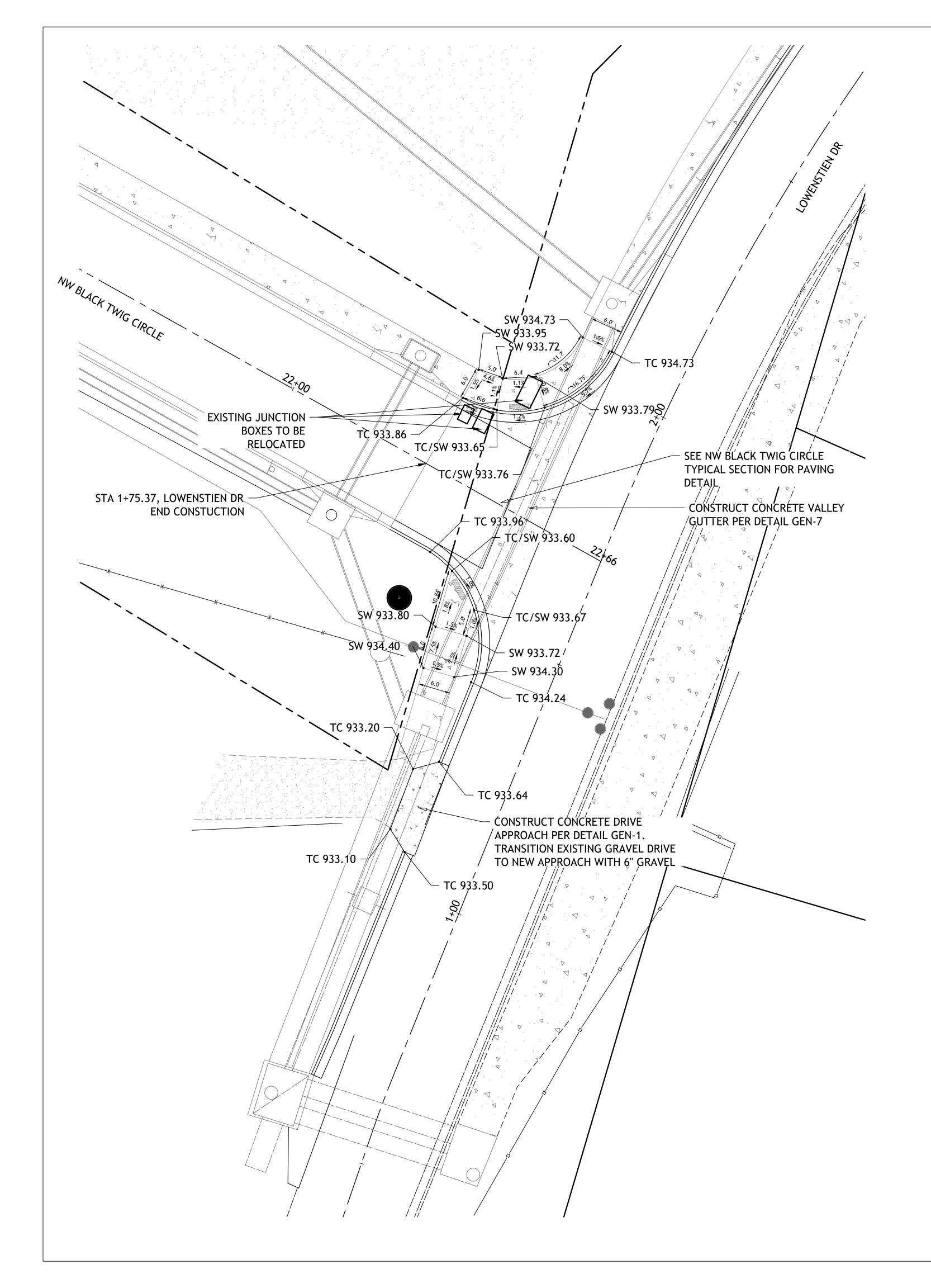


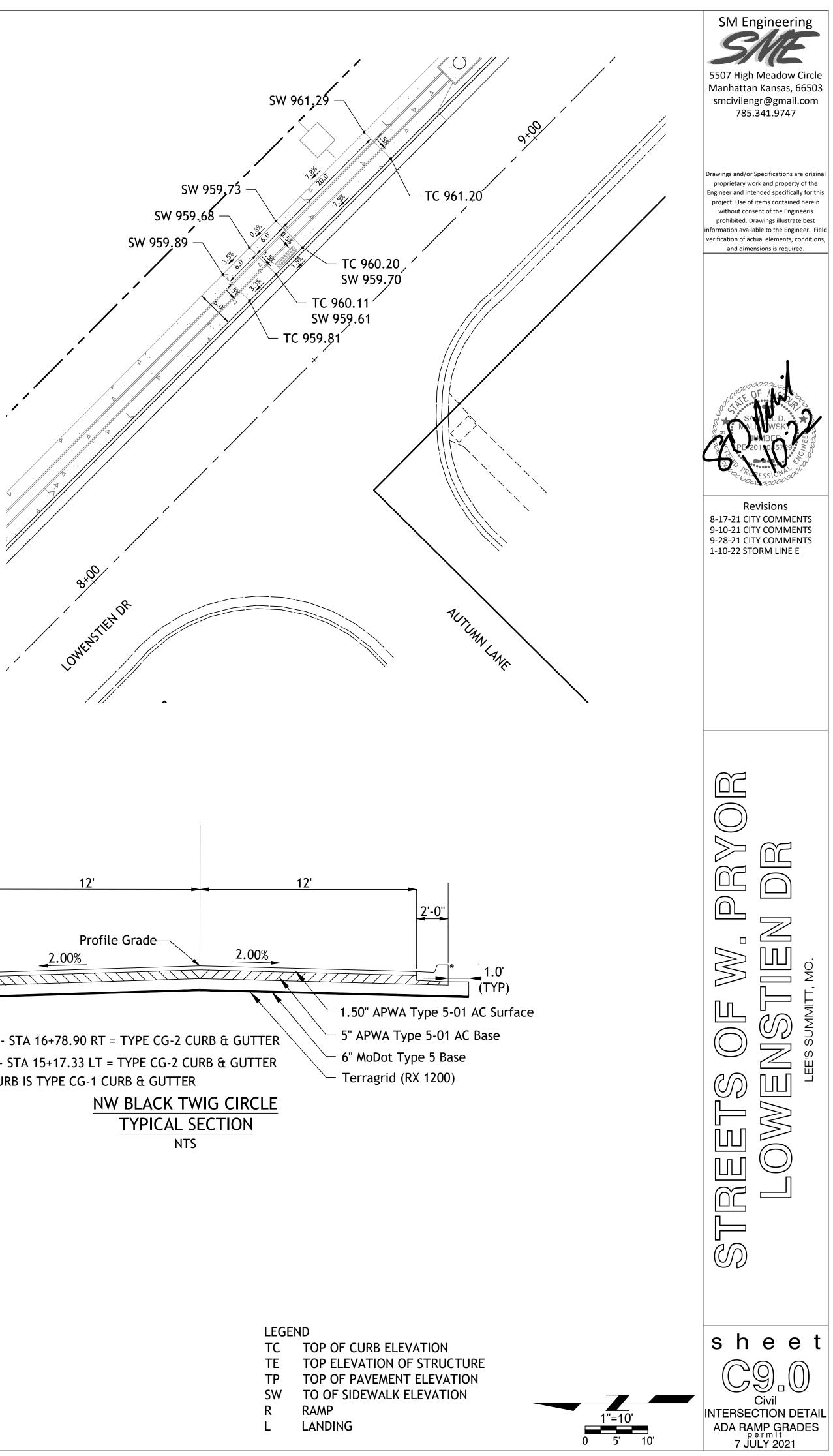


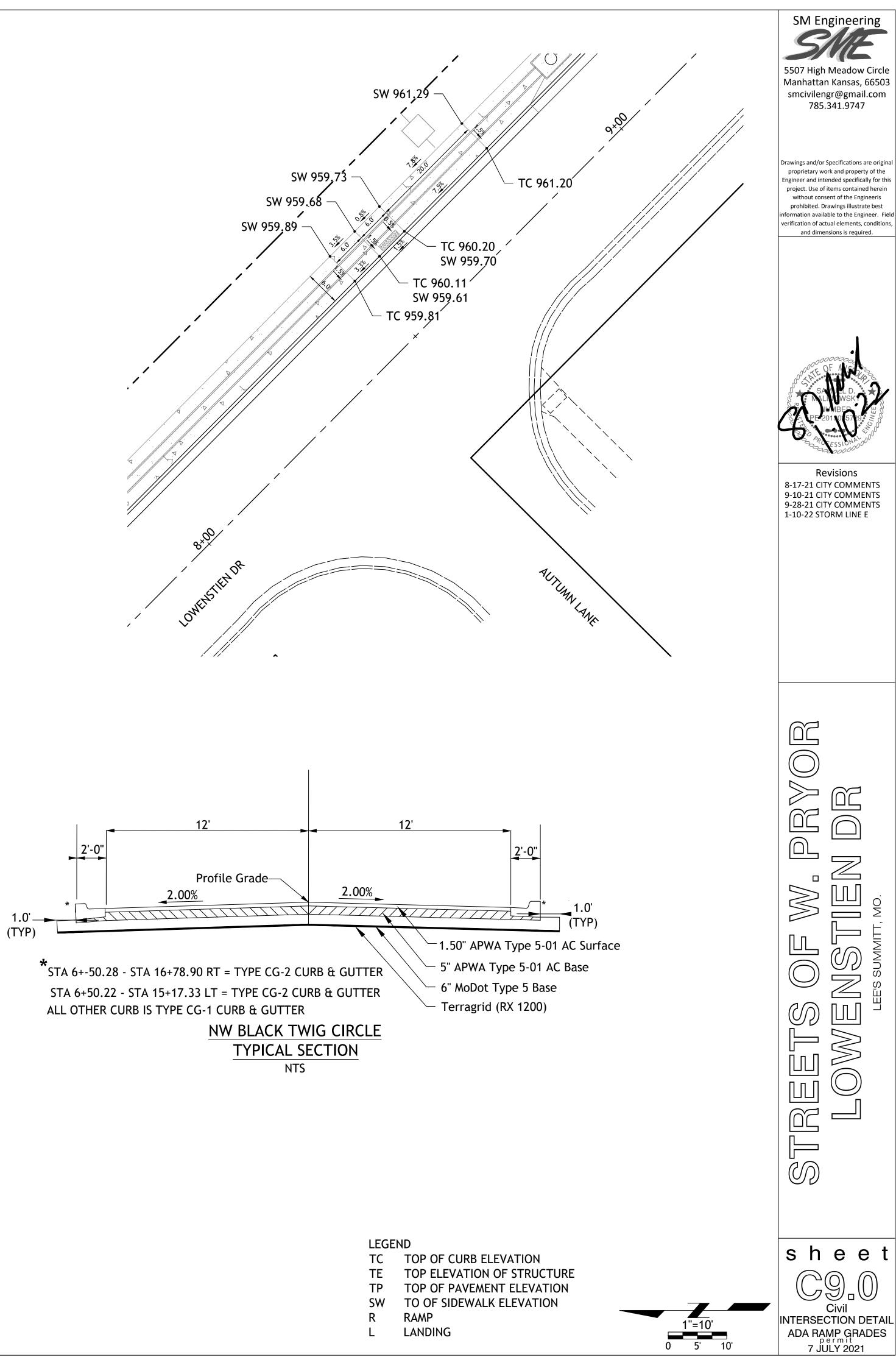


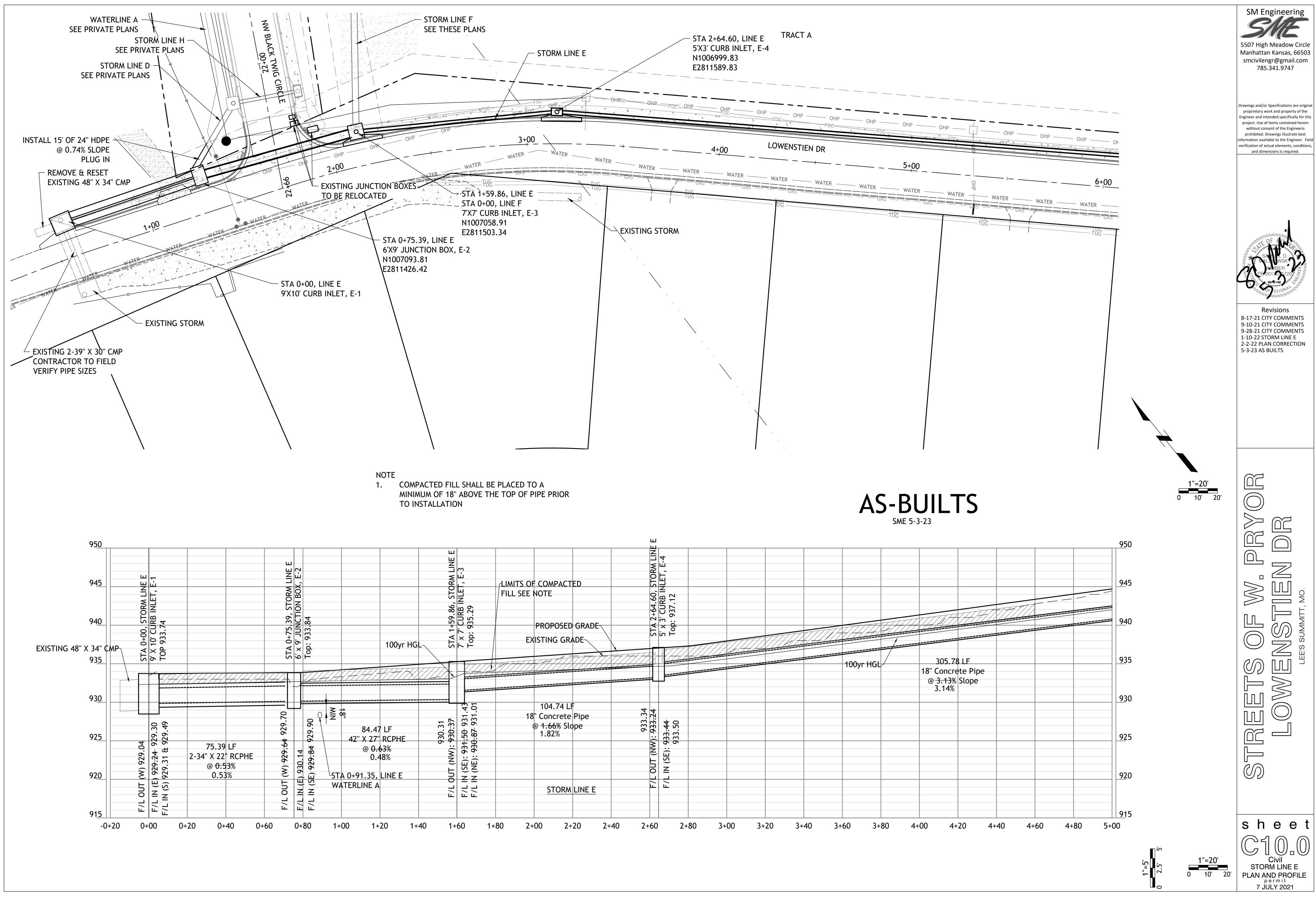






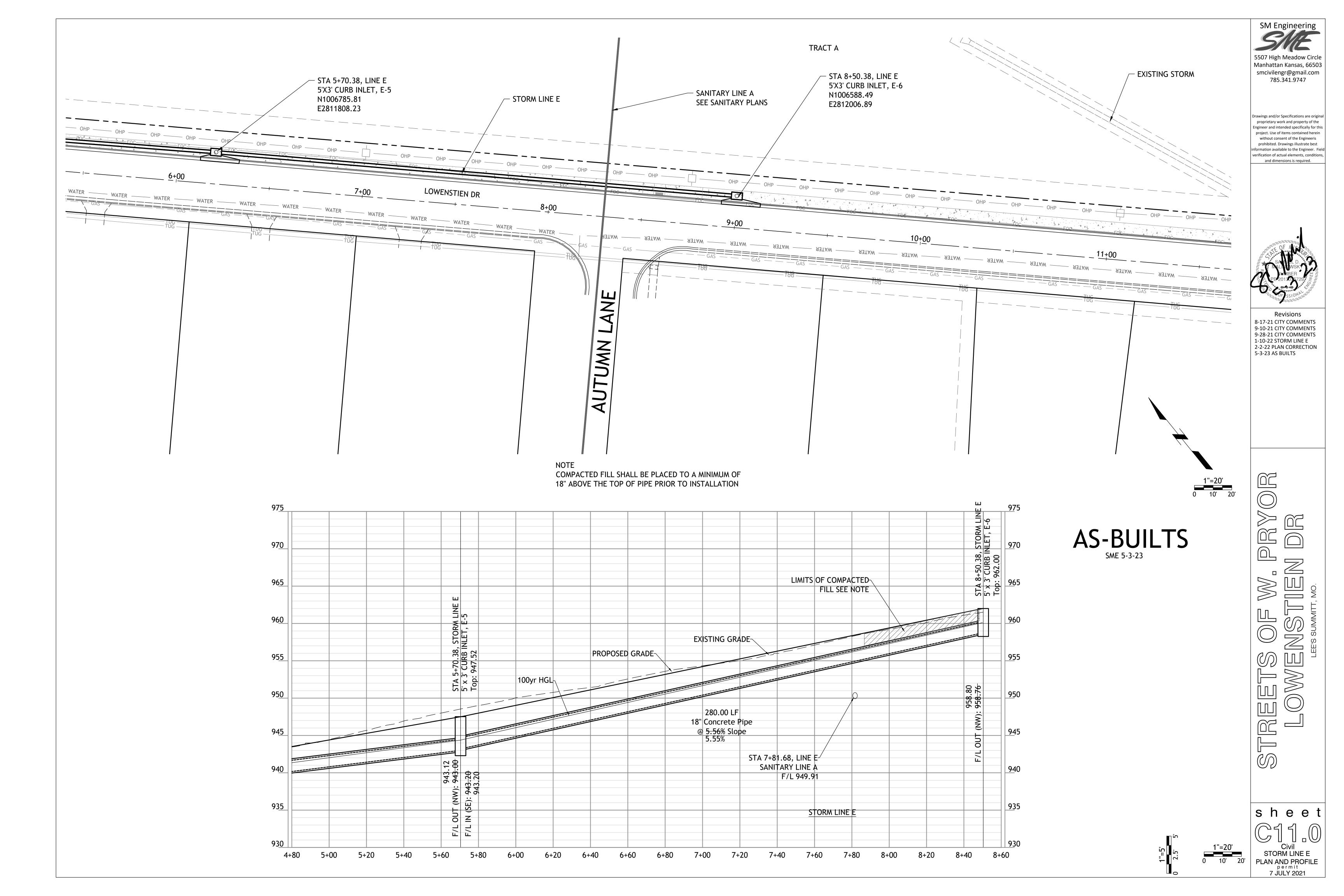




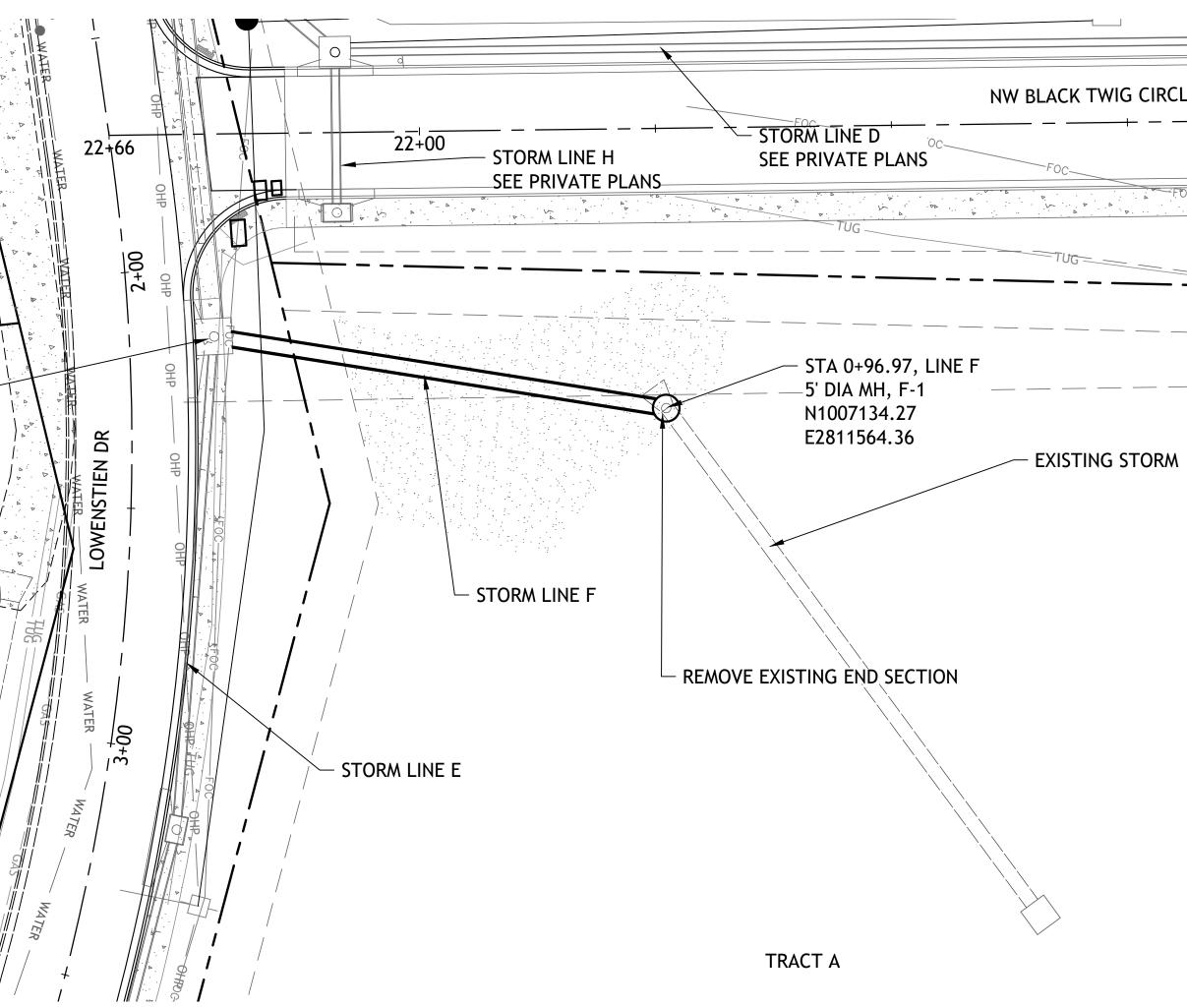


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		SMF	C

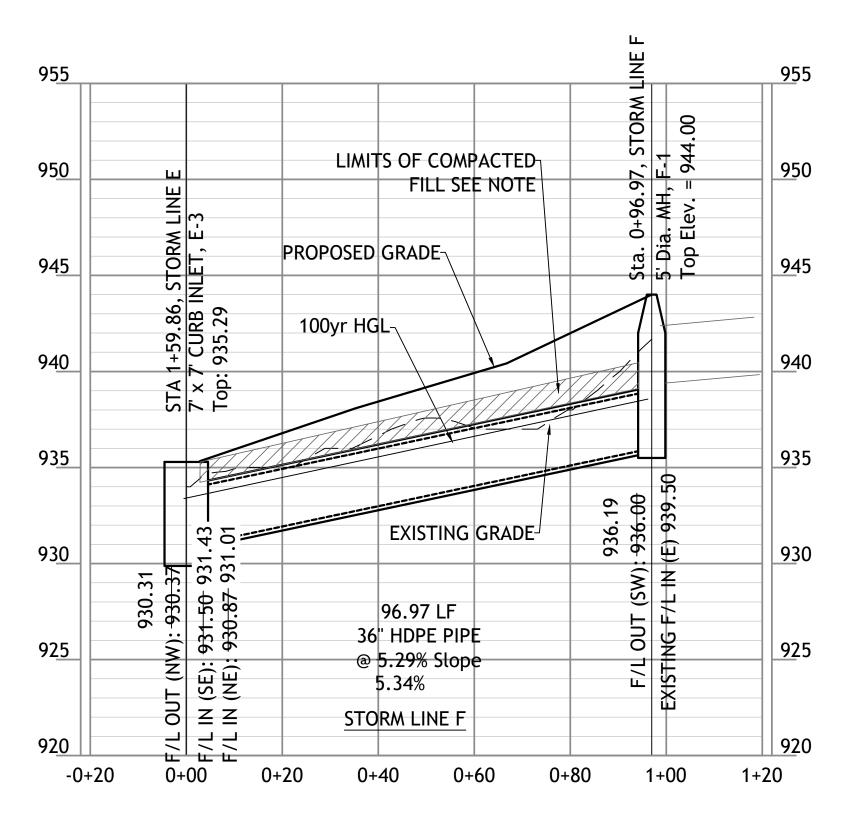
							LL.							
	6. STORM LINE E			LIMITS OF	COMPACT NOTE	ED	2+64 60 STORM LINF	Z						
		7' × 7' CURE Top: 935.2		EX	PROPOSED	\vdash	9+C VIS	5' x 3' Cl Top: 93						
													100yr HGL	
	930.31 (NW): 930.37	: 931.50 931.43		18	104.74 Ll " Concrete @ 1.66% Slo 1.82%	Pipe	933.34 933.34	E): 933.50						
	F/L OUT (N	IN (S N (S			STORM	LINE E								
)	1-	+60	1+	80 2+	00 2+	-20 2+	40 2+6	0	2+80 3	3+00 3	+20 3-	+40 3+	60 3+	80 4



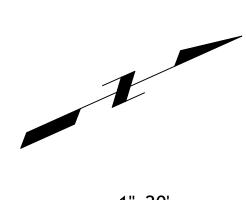
-STA 0+00, LINE F STA 1+59.86, LINE E 6'X6' CURB INLET, E-3 N1007058.91 E2811503.34



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



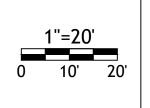
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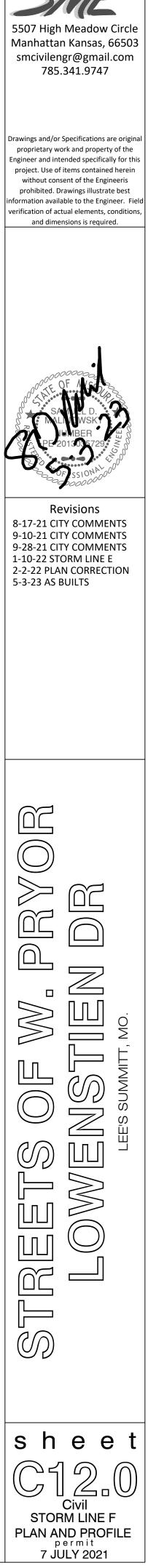


1"=20' 0 10' 20'

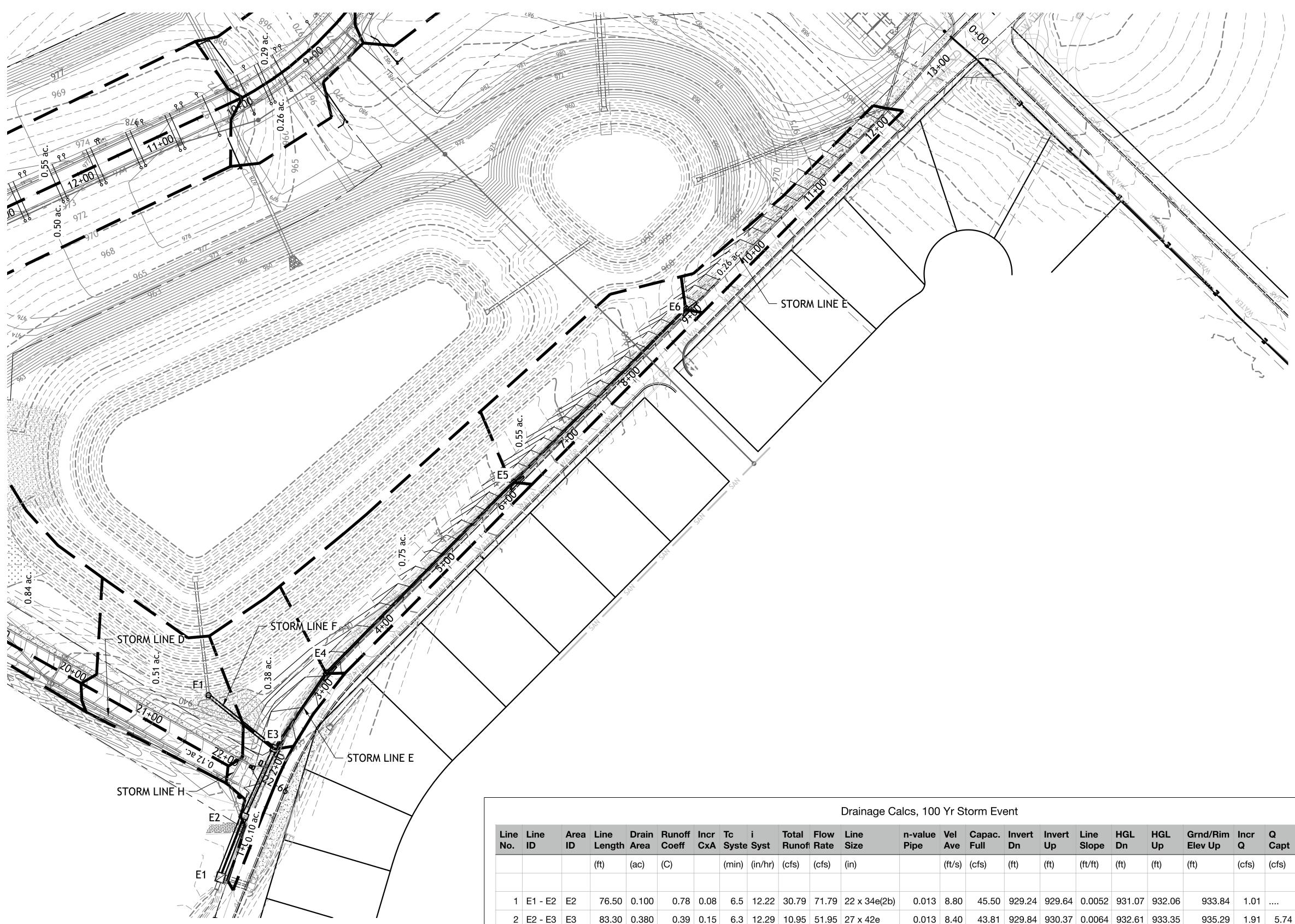






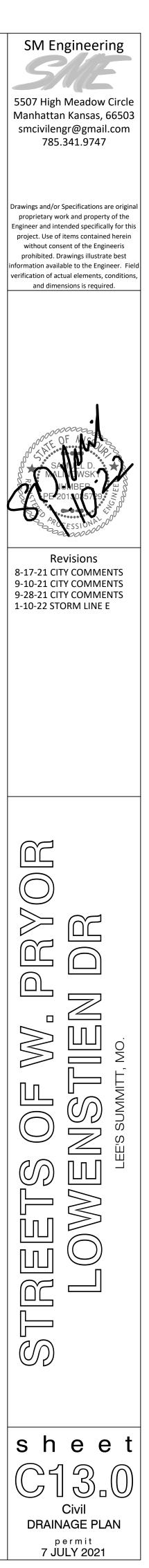


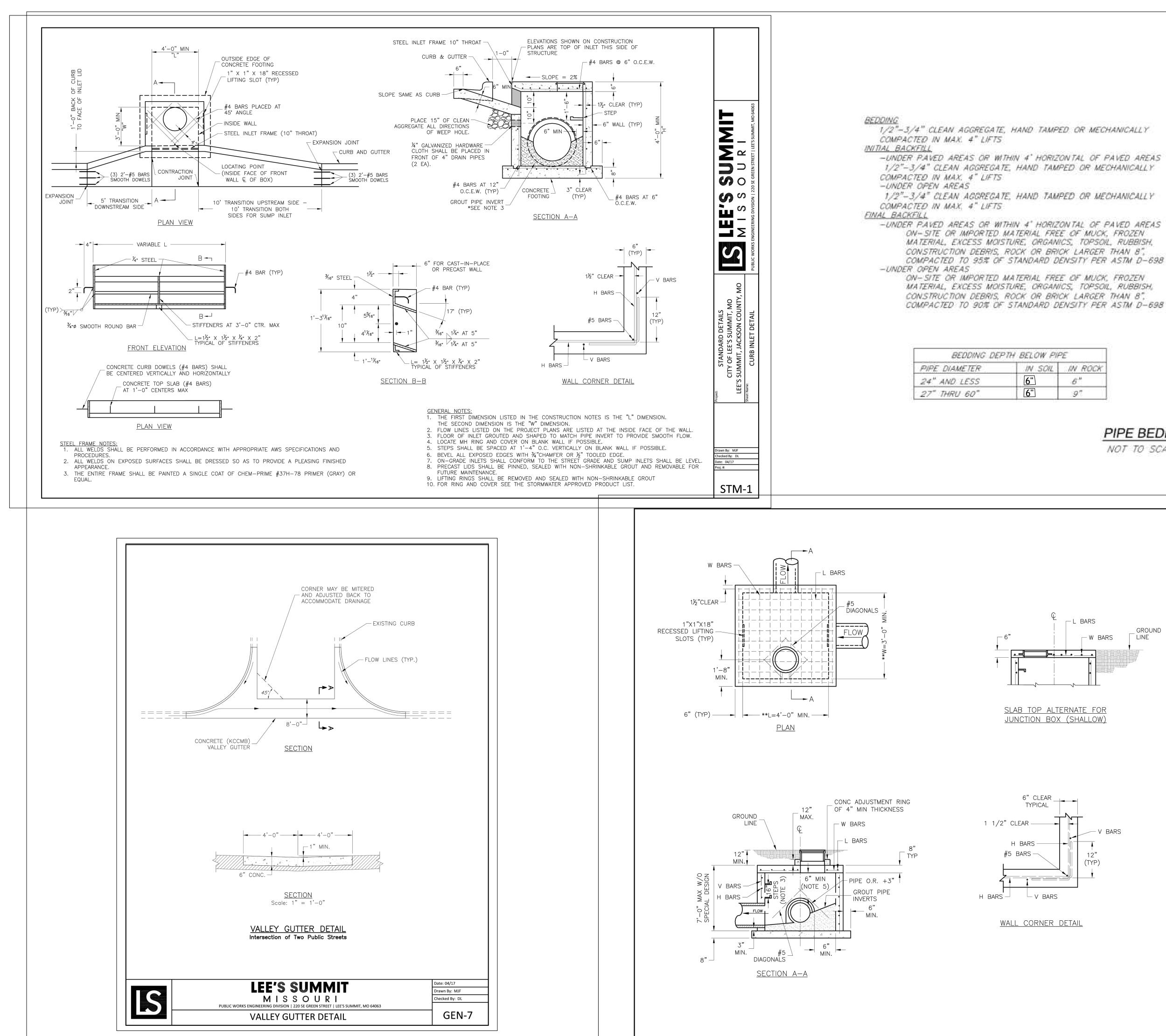
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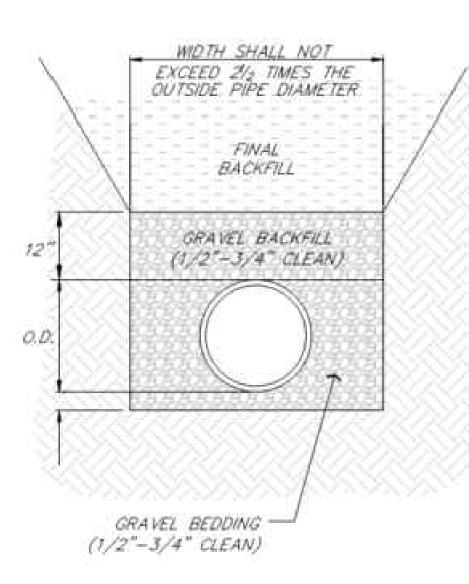


Line No.	Line ID	Area ID	Line Length		Runoff Coeff		Tc Syste	i Syst			Line Size	n-value Pipe	Vel Ave	Capac. Full	Invert Dn	Invert Up	Line Slope	HGL Dn	HGL Up	Grnd/Rim Elev Up	Incr Q	Q Capt	Q Bypas	Gutter Spread
			(ft)	(ac)	(C)		(min)	(in/hr)	(cfs)	(cfs)	(in)		(ft/s)	(cfs)	(ft)	(ft)	(ft/ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)
1	E1 - E2	E2	76.50	0.100	0.78	0.08	6.5	12.22	30.79	71.79	22 x 34e(2b)	0.013	8.80	45.50	929.24	929.64	0.0052	931.07	932.06	933.84	1.01			
2	E2 - E3	E3	83.30	0.380	0.39	0.15	6.3	12.29	10.95	51.95	27 x 42e	0.013	8.40	43.81	929.84	930.37	0.0064	932.61	933.35	935.29	1.91	5.74	2.77	6.3
3	E3 - E4	E4	104.74	0.750	0.43	0.32	6.1	12.38	9.19	9.19	18	0.013	5.20	14.78	931.17	933.24	0.0198	934.20	935.00	937.33	4.16	1.73	5.60	7.34
4	E4 - E5	E5	305.78	0.550	0.47	0.26	5.5	12.64	5.30	5.30	18	0.013	3.97	18.79	933.44	943.23	0.032	935.44	944.10	947.87	3.33	1.36	3.17	7.35
5	E5 - E6	E6	280.00	0.260	0.62	0.16	5.0	12.90	2.08	2.08	18	0.013	2.42	24.79	943.20	958.80	0.0557	944.46	959.35	962.17	2.08	0.89	1.19	4.65
6	E3 - F1	F1	96.81	0.000	0.00	0.00	0.0	0.00	0.00	41.00	36	0.013	6.90	148.98	930.87	935.70	0.0499	934.14	937.74	944.00	41.00			
7	E2 - D1	D1	39.00	2.720	0.57	1.55	5.0	12.90	19.99	19.99	24	0.013	6.36	20.10	930.14	930.45	0.0079	932.89	933.19	935.00	19.99	19.99	0.00	

1"=60' 0 30' 60'







PIPE BEDDING DETAIL

NOT TO SCALE



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

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

EXPOSED CONCRETE CORNERS.

POSSIBLE.

BOXOUT.

-V BARS

THE CORNERS OF THE STRUCTURE AND THE MINIMUM DISTANCE BETWEEN BOXOUTS IS 6". 5. THE MINIMUM REINFORCING SHALL BE 1 H-BAR OVER A CAST-IN-PLACE PIPE AND 2 H-BARS OVER A PRECAST

2. USE $\frac{3}{4}$ " CHAMFER STRIP OR $\frac{1}{2}$ " R EDGER TOOL ON ALL

CASTING TO INVERT EXCEEDS 4' ON BLANK WALL IF

4. BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH

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

- 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
Drawings and/or Specifications are original proprietary work and property of the Engineer and intended specifically for this project. Use of items contained herein without consent of the Engineeris prohibited. Drawings illustrate best information available to the Engineer. Field verification of actual elements, conditions, and dimensions is required.
Revisions 8-17-21 CITY COMMENTS 9-10-21 CITY COMMENTS 9-28-21 CITY COMMENTS 9-28-21 CITY COMMENTS 12-7-21 STORM LINE E
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