# CONSTRUCTION PLANS FOR

CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES** 

# PRIVATE ROAD, WATER, GAS AND ELECTRIC IMPROVEMENTS STREETS OF WEST PRYOR

LEE'S SUMMIT, MISSOURI



NW CHIPMAN RD

ASHURST DR

NOT TO SCALE

ELECTRIC- SERVICE

NATHAN MICHAEL (913) 347-4310

GAS SERVICE

Katie.Darnell@spireenergy.com

CITY OF LEE'S SUMMIT

KENT MONTER (816) 969-1900 Kent.Monter@citvofls.net



CALL BEFORE YOU DIG - DRILL - BLAST 1-800-344-7483 (TOLL FREE)

MISSOURI ONE CALL SYSTEM, INC.

**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 NOTED ON THIS SURVEY.

#### 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.

#### SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

#### WARRANTY / DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING. INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.





BECKY DAVIS (913) 725-8745 KC-Google-UC@google.com rebeccadavis@google.com

> POSTED SPEED DESIGN SPEED PRIVATE ROAD "A", "B" & "C" 25

	-	,
OWNER: MATT PENNINGTON		
APPROVED THIS	_DAY OF	,

PROJECT

LOCATION MAP

CITY OF LEE'S SUMMIT, MISSOURI

LOCATION

INDEX TO S	SHEETS
C-1	TITLE SHEET
C-2	GENERAL NOTES
C-3	GENERAL LAYOUT SHEET
C-4	TYPICAL SECTIONS FOR PRIVATE ROAD - A
C-5 C-6	TYPICAL SECTIONS FOR PRIVATE ROAD — B & C
C-6 C-7	PRIVATE ROAD A PLAN & PROFILE
C-8	PRIVATE ROAD — A 7 PLAN & PROFILE 5  PRIVATE ROAD — A 7 PLAN & PROFILE 5
C-9	PRIVATE ROAD - A + PLAN & PROFILE }
C-10	PRIVATE ROAD - A + PLAN & PROFILE +
C-10 C-11	PRIVATE ROAD - B 7 PLAN & PROFILE }
C-12	PRIVATE ROAD - B + PLAN & PROFILE )
C-13	PRIVATE ROAD - C + PLAN & PROFILE
C-14	PRIVATE ROAD - C + PLAN & PROFILE }
C-15	EROSION CONTROL PLAN
C-16	PAVEMENT MARKING & SIGNING PLAN
C-17	UTILITY PLAN
C-18	UTILIAY PLAN 1
C-19	PAVEMENT MARKING DETAIL SHEET
C-20	SIGN AND TRAFFIC CONTROL DETAIL SHEET
C-21	STREET DETAIL SHEET
C-22	STORM SEWER DETAIL SHEET
C-23	EROSION CONTROL DETAIL SHEET
C-24	EROSION CONTROL DETAIL SHEET
C-25	EROSION CONTROL DETAIL SHEET
C-26	EROSION CONTROL DETAIL SHEET
C-27	WATER DETAILS
C-28	WATER DETAILS
LIGHTING SE-1 SE-2 SE-3 SL-1 SL-2	SITE ELECTRICAL PLAN SITE ELECTRICAL PLAN DIAGRAMS & DETAIL SHEET PHOTOMETRIC PLAN LIGHTING FIXTURE SCHEDULE & FIXTURE CUT SHEETS
LANDSCAPING L 1.00	SIGNAGE LANDSCAPE PLAN

STREETS OF WEST PRYOR, LLC 7200 WEST 132ND STREET OVERLAND PARK, KS 66213 CONTACT: MATT PENNINGTON email: matt@drakekc.com

CONTACT: LEON D OSBOURN

EMAIL: Ido@kveng.com

785-762-5040

AGENT: DAVID N. OLSON email: daveolson@monarchprojectllc.com PREPARED BY:
KAW VALLEY ENGINEERING, INC. 2319 N. JACKSON JUNCTION CITY, KS 66441

7200 WEST 132ND STREET

**DATUM BENCHMARK:** VERTICAL DATUM IS NAVD 88 ESTABLISHED USING OPUS PROJECTS ON PROJECT CONTROL.

BM #1: CHISELED "SQUARE" ON TOP OF CURB POINT OF INTERSECTION OF WEST PARK PARKING LOT AT EAST DRIVE ENTRANCE.

BM #2: CHISELED "SQUARE" ON NORTHWEST CORNER AREA INLEJ: 25'± EAST OF CURB

LINE AND ON-LINE WITH SOUTH CURB OF LOWENSTEIN DRIVE AT 90 BEND IN RODAD.



ENGINEER MO # 021726

ENG G

DR R o w F WEST I NW PRYOF SUMMIT, I

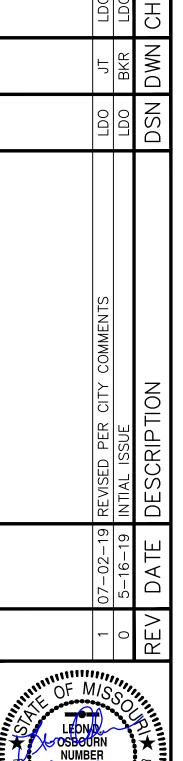
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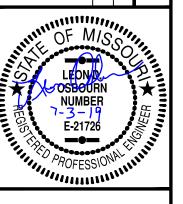
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1. EXCESS EXCAVATION SHALL BE DEPOSITED IN AREAS AS DIRECTED BY THE OWNER.

- 2. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE EXISTING SURFACING ON STREETS NEEDED TO BE TRAVELED UPON BY EQUIPMENT DURING CONSTRUCTION, AND IF DAMAGED, HE SHALL REPLACE THE SURFACING AND REPAIR THE STREET TO THE ORIGINAL CONDITION. NO TYPE OF EARTH MOVING EQUIPMENT WILL BE PERMITTED TO HAUL ON OR OVER ANY EXISTING STREET.
- 3. THE CONTRACTOR SHALL TAKE CARE IN PROTECTING EXISTING TREES AND SHRUBS OUTSIDE OF THE PROPOSED CONSTRUCTION. CARE SHALL BE TAKEN NOT TO DISTURB LAWNS OR EXISTING STRUCTURES OUTSIDE OF THE CONSTRUCTION LIMITS.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- 5. CONTRACTOR SHALL SEED ALL DISTURBED AREAS IN ACCORDANCE TO REQUIREMENTS OF TECHNICAL SPECIFICATIONS. BUILDING LOTS WILL NOT REQUIRE SEEDING BUT ALL SLOPES AND BACKFILL BEHIND CURBS SHALL BE SEEDED WITHIN RIGHT-OF-WAY LIMITS, AND ON SLOPES OF EMBANKMENTS. AREAS SHALL BE SEEDED WITHIN 28 DAYS OF FINISH GRADING OR AS DIRECTED BY OWNER.
- 6. JOINT SPACING FOR CONCRETE PAVEMENT SHALL BE MODIFIED TO MEET THE CONTRACTOR'S CONSTRUCTION EQUIPMENT AND METHODS OF POURING. CONTRACTOR TO DRILL AND INSERT EPOXY-COATED DOWEL BARS INTO CONSTRUCTION JOINTS AND HEADERS. CONTRACTOR TO SAW-CUT CLEAN VERTICAL EDGE AT JOINT LOCATION. SAWED CONTRACTION JOINTS SHALL BE REQUIRED ON MAXIMUM 12'-0" CENTERS.
- 7. CONTRACTOR SHALL SUBMIT A JOINTING PLAN AND RECEIVE APPROVAL FROM THE ENGINEER AND CITY PRIOR TO CONCRETE PAVING OPERATIONS.
- 8. ALL SANITARY SEWER, WATER MAINS AND STORM SEWER UNDER PAVEMENTS SHALL BE BACKFILLED WITH MODOT TYPE 5 AGGREGATE IN TRENCHES GREATER THAN 24" AND FLOWABLE IN TRENCHES LESS THAN 24".
- 9. CONTRACTOR SHALL INSTALL SILT FENCE TO PREVENT SEDIMENT FROM LEAVING CONSTRUCTION LIMITS. SILT FENCE IS REQUIRED AT BOTTOM OF SLOPE ON ALL EMBANKMENTS AND AT DISCHARGE POINTS OF STREETS, STORM SEWER INLETS AND PIPE END SECTIONS.
- 10. PIPE LENGTHS ARE CENTER TO CENTER OF STRUCTURE OR TO END OF END SECTIONS.
- 11. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON-SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES PROVIDED THAT NO TOPSOIL WILL BE WASTED WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PARKING AREA. BURNING OF TIMBER WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING OFFICIALS. STRIPPING EXISTING TOPSOIL AND ORGANIC MATTER SHALL BE TO A MINIMUM DEPTH OF 6 INCHES.
- 12. CONTRACTOR SHALL COMPLETE ROUGH SITE AND STREET GRADING PRIOR TO INSTALLATION OF UTILITIES.
- 13. EROSION CONTROL SEDIMENT FENCE SHALL BE INSTALLED 1'-0" BEHIND CURB & GUTTER UPON COMPLETION OF BACKFILL OF CURB IN ALL AREAS WHERE SLOPES FROM LOT DRAIN TOWARDS CURB. UPON COMPLETION OF FINAL GRADING THE TOES OF ALL EMBANKMENTS IN EXCESS OF TWO FEET IN HEIGHT SHALL HAVE EROSION CONTROL SEDIMENT FENCE INSTALLED.
- 14. CUT AND FILL SECTIONS ARE TYPICAL ONLY. NEITHER ALTERNATE PAVEMENT TYPE IS SPECIFIED FOR EXCLUSIVE USE WITH CUT OR FILL SECTIONS. REFER TO SPECIFICATIONS FOR INFORMATION ON FLY ASH TREATED SUBGRADE, CRUSHED AGGREGATE BASE COURSE, AND PAVEMENT UNDERDRAINS.
- 15. WHERE CURB AND GUTTER IS MONOLITHIC WITH THE STREET, THE CURVE SHALL BE POURED AT THE SAME DEPTH AS THE STREET.
- 16. UNLESS SPECIFIED OTHERWISE, KCMMB 4K IS REQUIRED FOR ALL CONCRETE.
- 20. THE STANDARD SPECIFICATIONS AND DESIGN CRITERIA OF THE CITY OF LEE'S SUMMIT AND SHALL GOVERN THE CONSTRUCTION OF ALL PUBLIC IMPROVEMENTS FOR THIS PROJECT.

$\triangle$	SECTION CORNER, ORIGIN UNKNOWN UNLESS OTHERWISE NOTED	0	STORM SEWER MANHOLE
	MONUMENT FOUND, ORIGIN UNCERTAIN UNLESS	<del>_</del>	TELEPHONE SIGN
0	OTHERWISE NOTED		TELEPHONE MANHOLE
(D)	DESCRIBED	TP	TELEPHONE PEDESTAL
(M)	MEASURED	— Т —	UNDERGROUND TELEPHONE LINE
(C)	CALCULATED	ightharpoons	SPLICE BOX
(P)	PLATTED	F <u>Q</u> C	FIBER OPTIC CABLE SIGN
-0	STREET SIGN	——— FOC ———	UNDERGROUND FIBER OPTIC CABLE
-[]-	UTILITY POLE	<del>7,</del>	TRAFFIC CONTROL POLE
LP <sup>-</sup> D-	UTILITY POLE W/ LIGHT	Р	PULL BOX
-0-	UTILITY POLE W/TRANSFORMER	$_{FP}\mathbf{o}$	FLAG POLE
\$	LIGHT POLE	${\sf MB}^{\sf O}$	MAILBOX
(-)	- DEADMAN ANCHOR	A <u>D</u> A	HANDICAP SIGN
OU	OVERHEAD UTILITY - # LINES	Ĕ,	HANDICAP PAINTED SYMBOL
A/O	AIR CONDITIONING UNIT	4	LEFT TURN ARROW
EP	ELECTRIC PEDESTAL	$\rightarrow$	STRAIGHT ARROW
E	ELECTRIC METER		RIGHT TURN ARROW
— Е — —	UNDERGROUND ELECTRIC LINE	$GP^O$	GATE POST
0	UTILITY MANHOLE	0	FENCE POST
CÎV	CABLE TV SIGN		WOOD FENCE
CP	CABLE TV PEDESTAL	<del></del>	CHAIN LINK FENCE
G	GAS SIGN	X	BARBED WIRE FENCE
G	GAS METER	18" (CV)	DECIDUOUS TREE W/SIZE & DRIP LINE
G	UNDERGROUND GAS LINE	22"	EVERGREEN TREE W/SIZE & DRIP LINE
GTS	GAS CATHODIC PROTECTION STATION	SAP	SAPPLING TREE
W	WATER LINE	9	SHRUB
$\otimes$	WATER LINE GATE VALVE	凡	STUMP
ws <sup>O</sup>	WATER SPIGOT		TREE LINE
W	WATER METER	<b>~~~~~</b> .	SHRUB LINE
	WELL	(10)	PARKING STALL COUNT
~	FIRE HYDRANT	— — 970 — —	1' CONTOUR INTERVAL
\$	SANITARY SEWER MANHOLE		RESTRICTED ACCESS
s	SANITARY SEWER LINE	В/В	BACK OF CURB TO BACK OF CURB
		E/E	EDGE TO EDGE



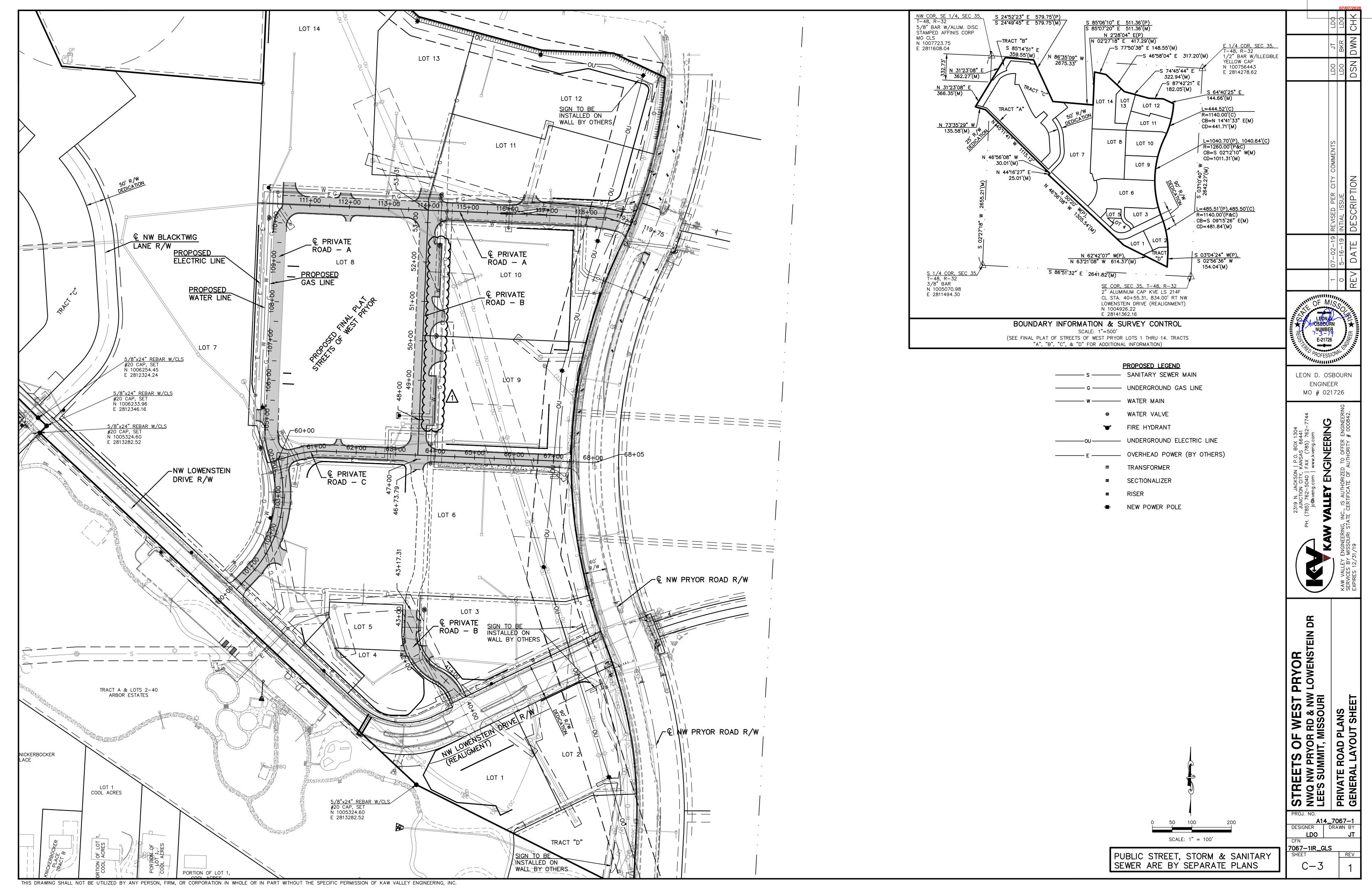


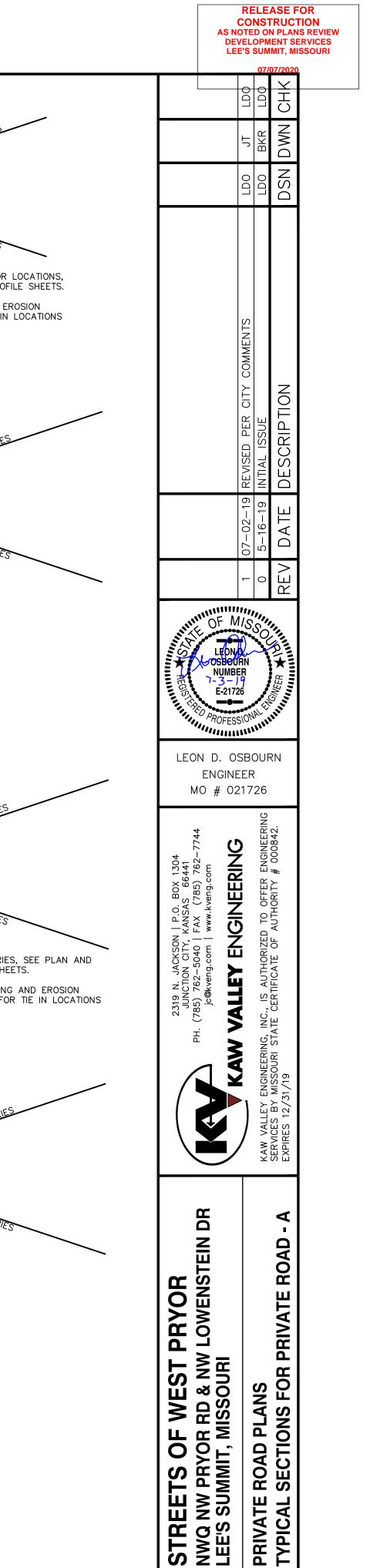
LEON D. OSBOURN ENGINEER MO # 021726

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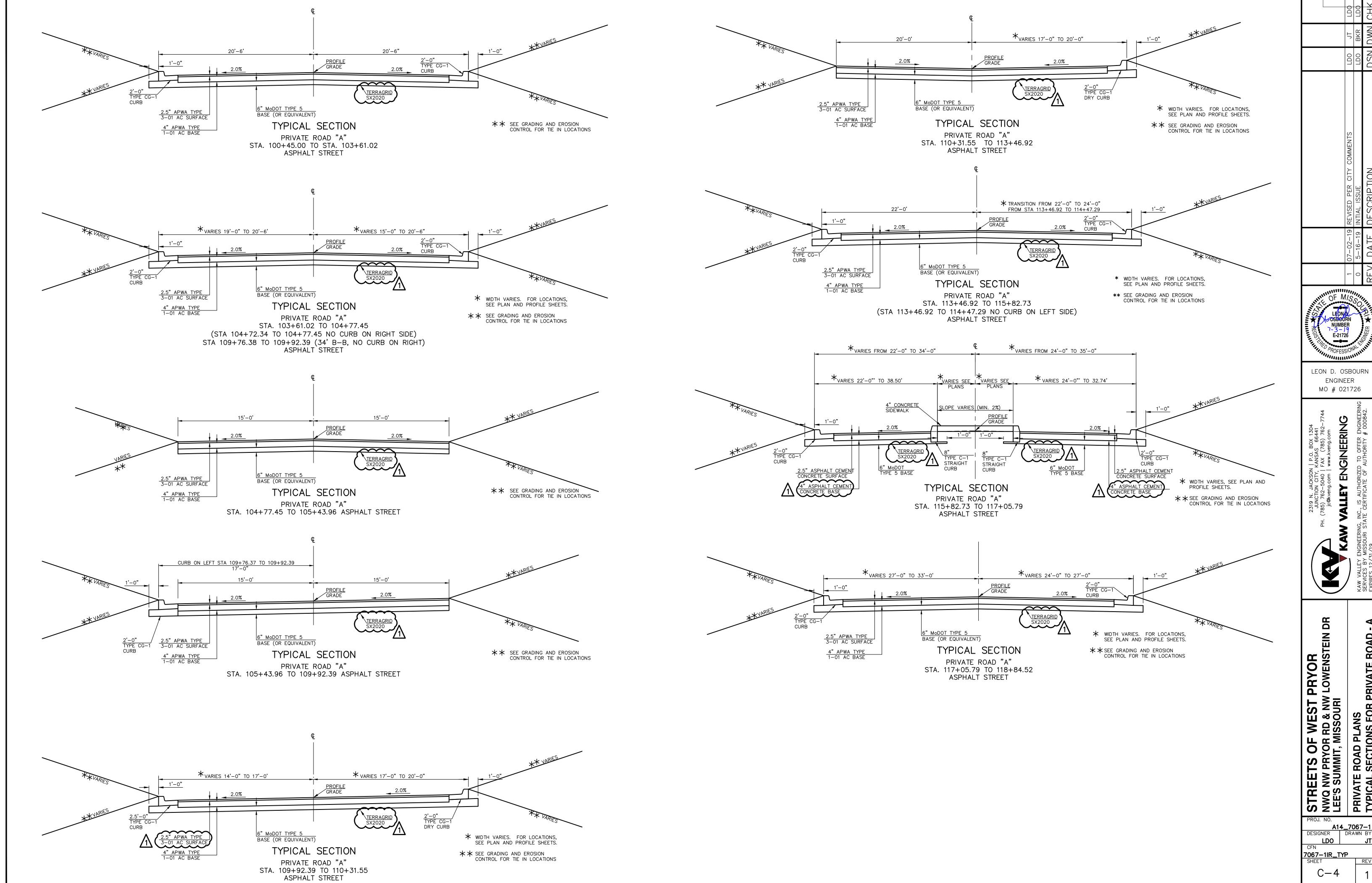
STREETS OF WEST PRYOR NWO NW PRYOR RD & NW LOWENSTEIN LEE'S SUMMIT, MISSOURI

PRIVATE ROAD F

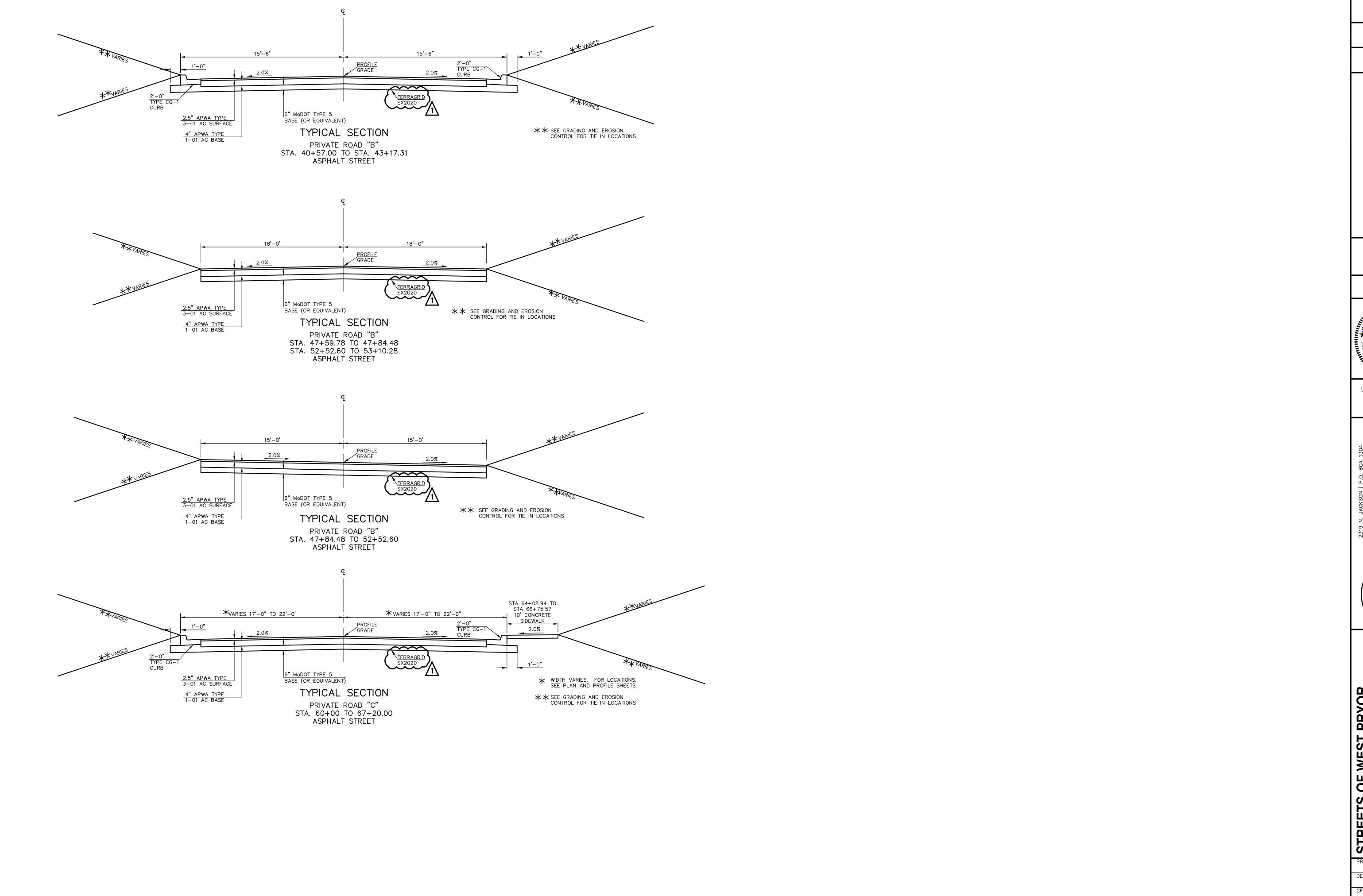




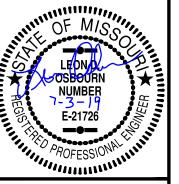
C-4







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G, INC., IS AUTHORIZED TO OFFER ENGINEERI
STATE CERTIFICATE OF AUTHORITY # 000842. 2319 N. JACKSON | P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 (785) 762-5040 | FAX (785) 762-jc@kveng.com | www.kveng.com

DR

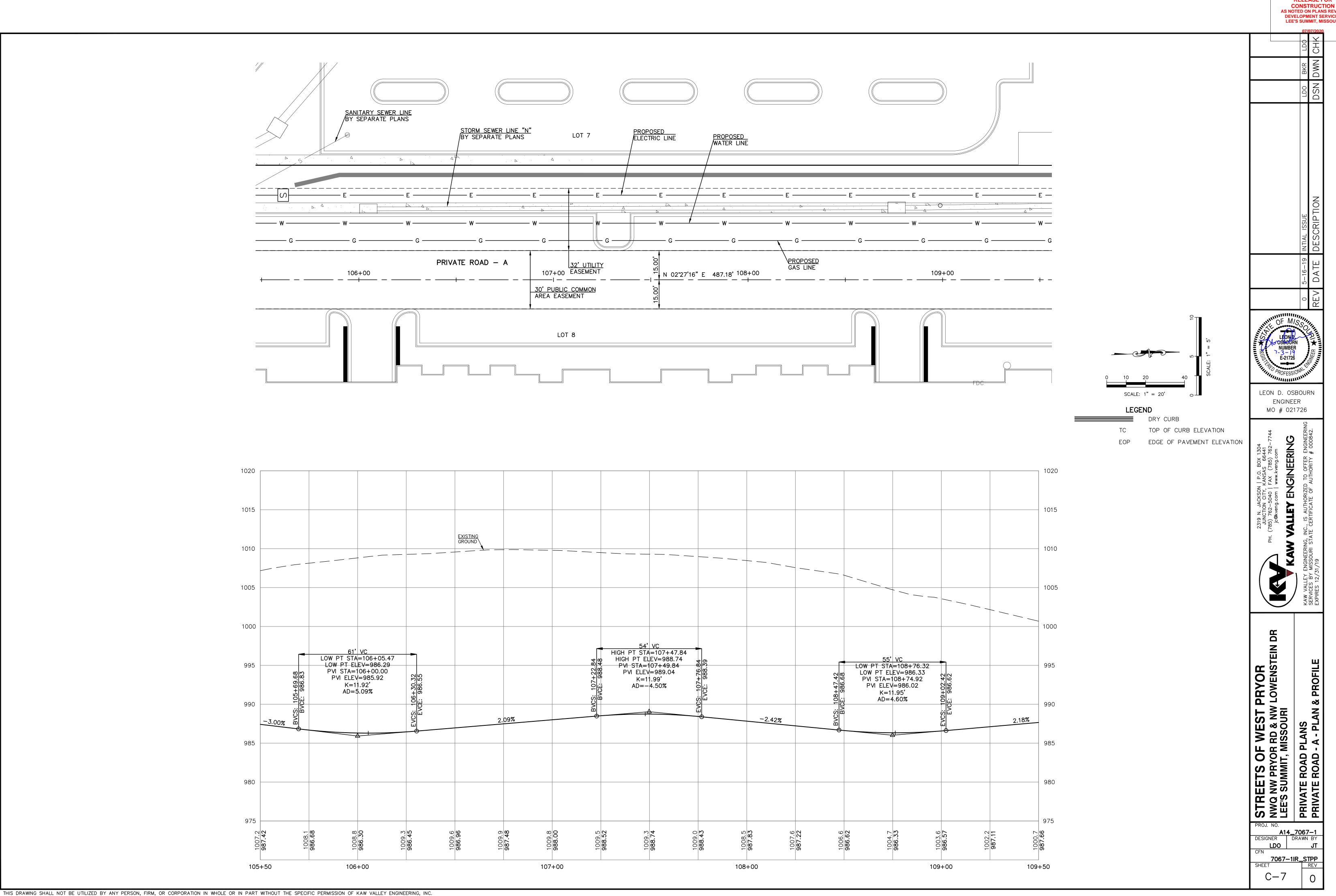
STREETS OF WEST PRYOR NWG NW PRYOR RD & NW LOWENSTEIN LEE'S SUMMIT, MISSOURI

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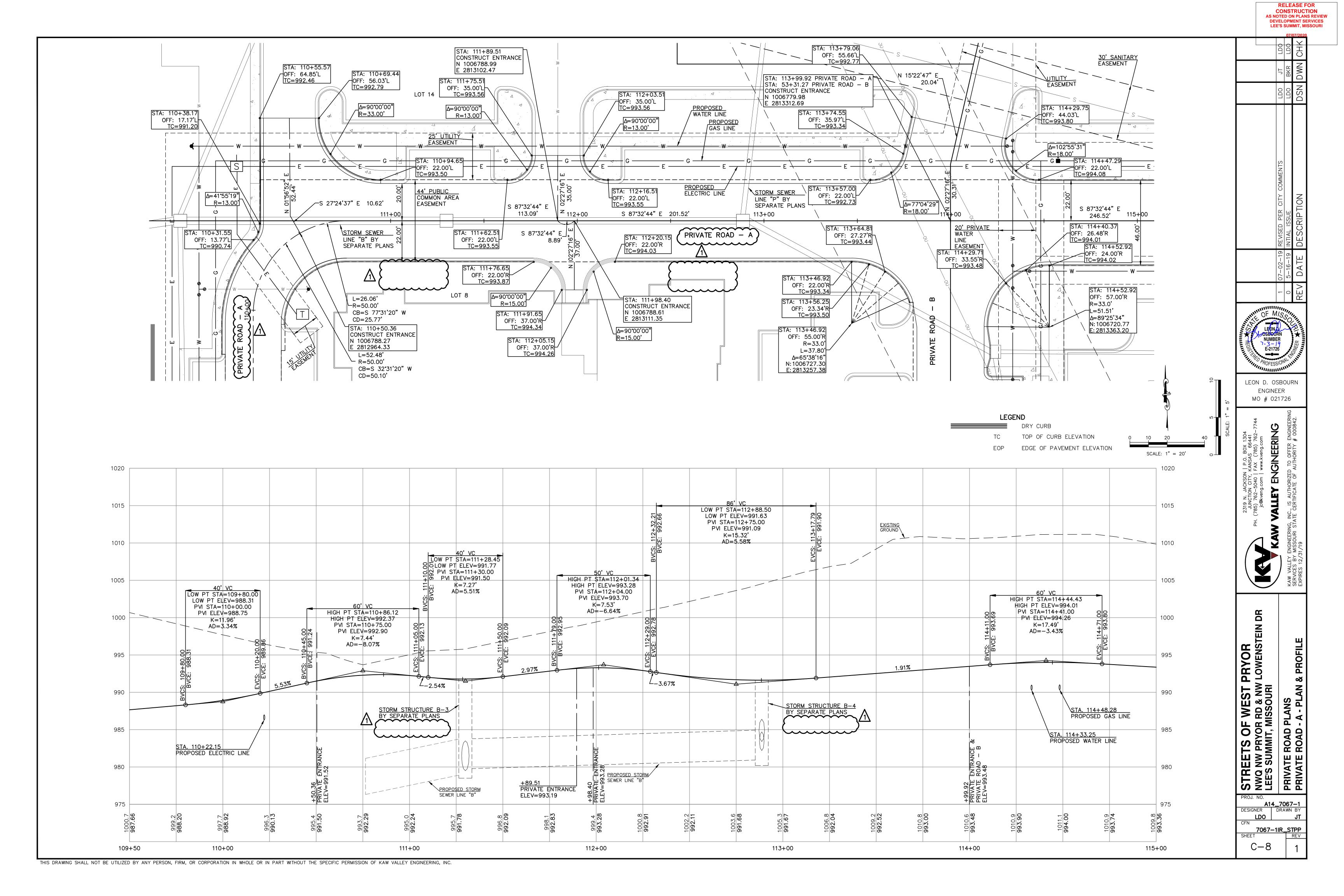
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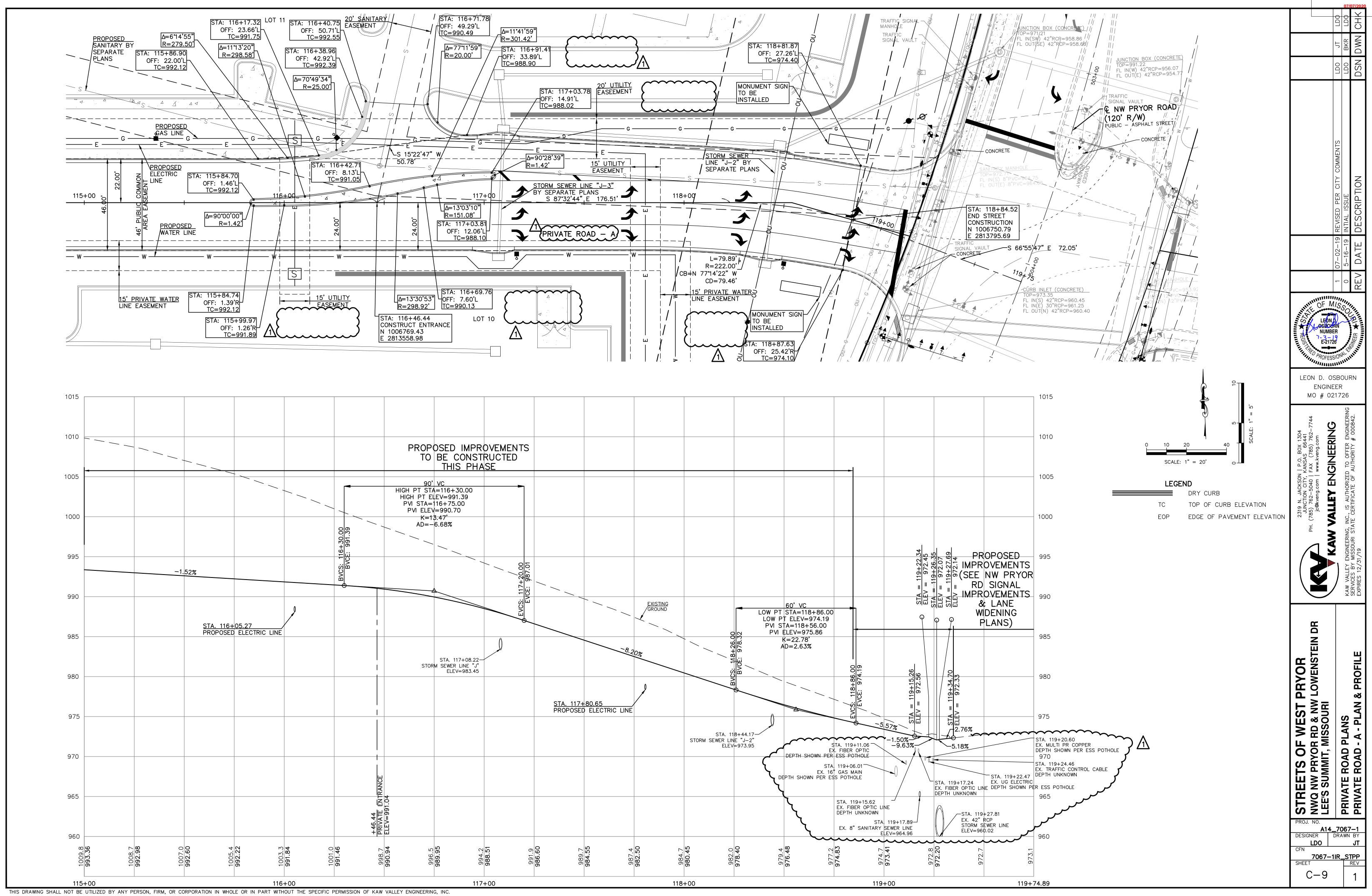
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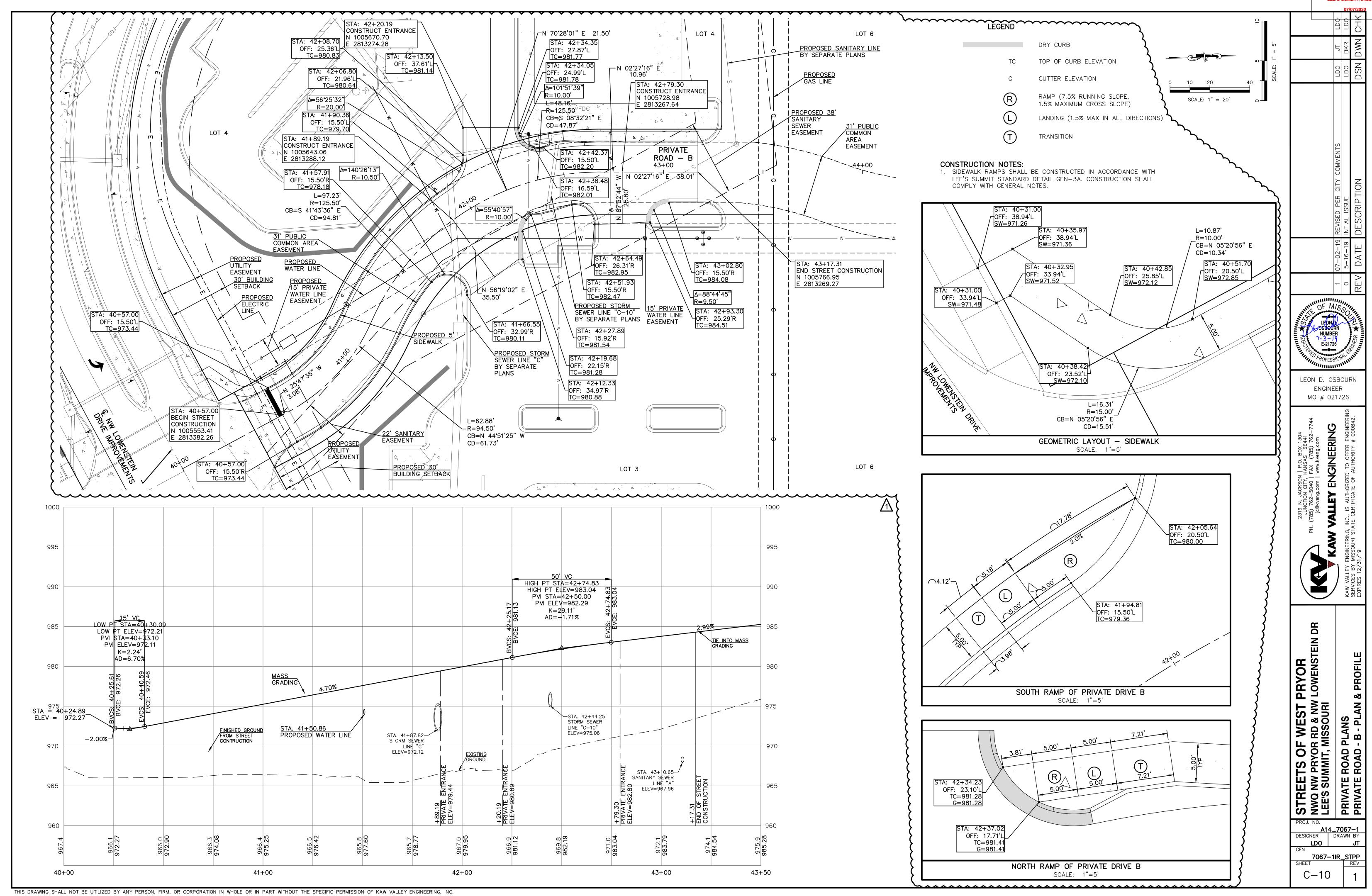
RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW



RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI







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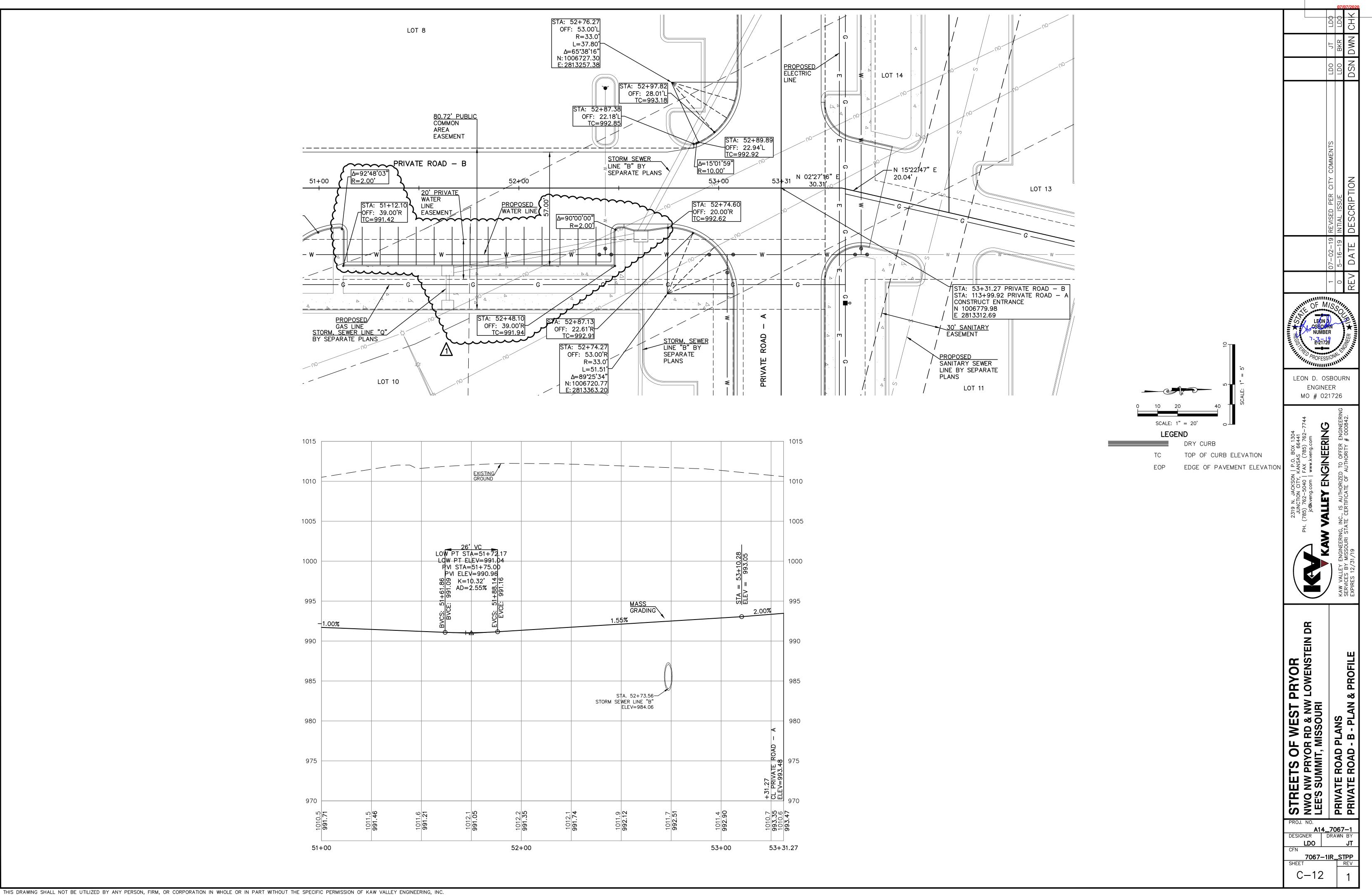
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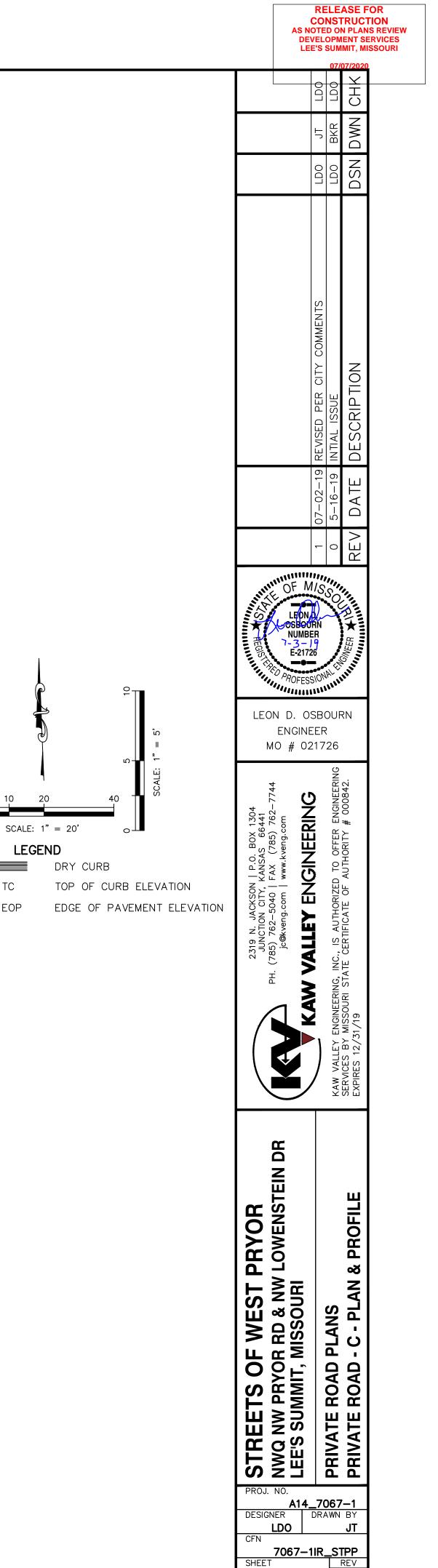
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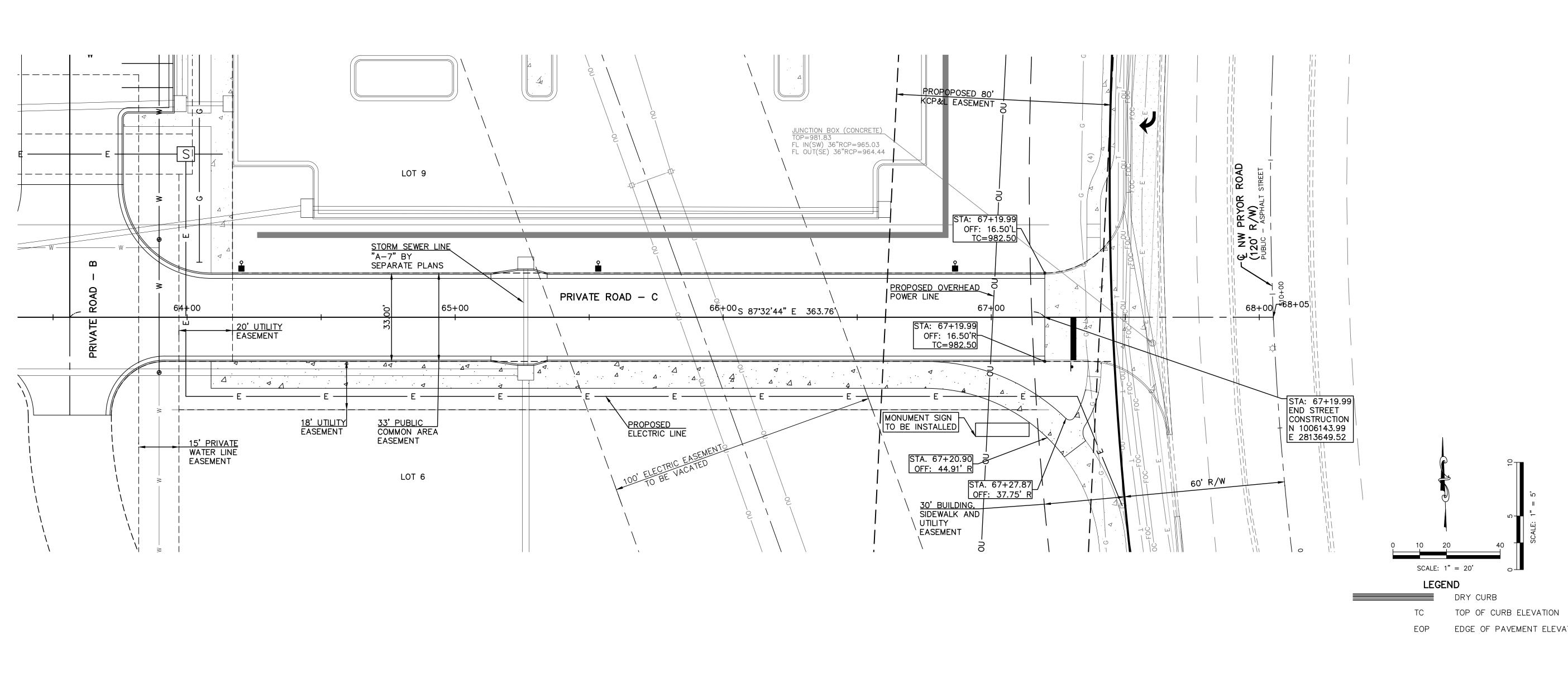
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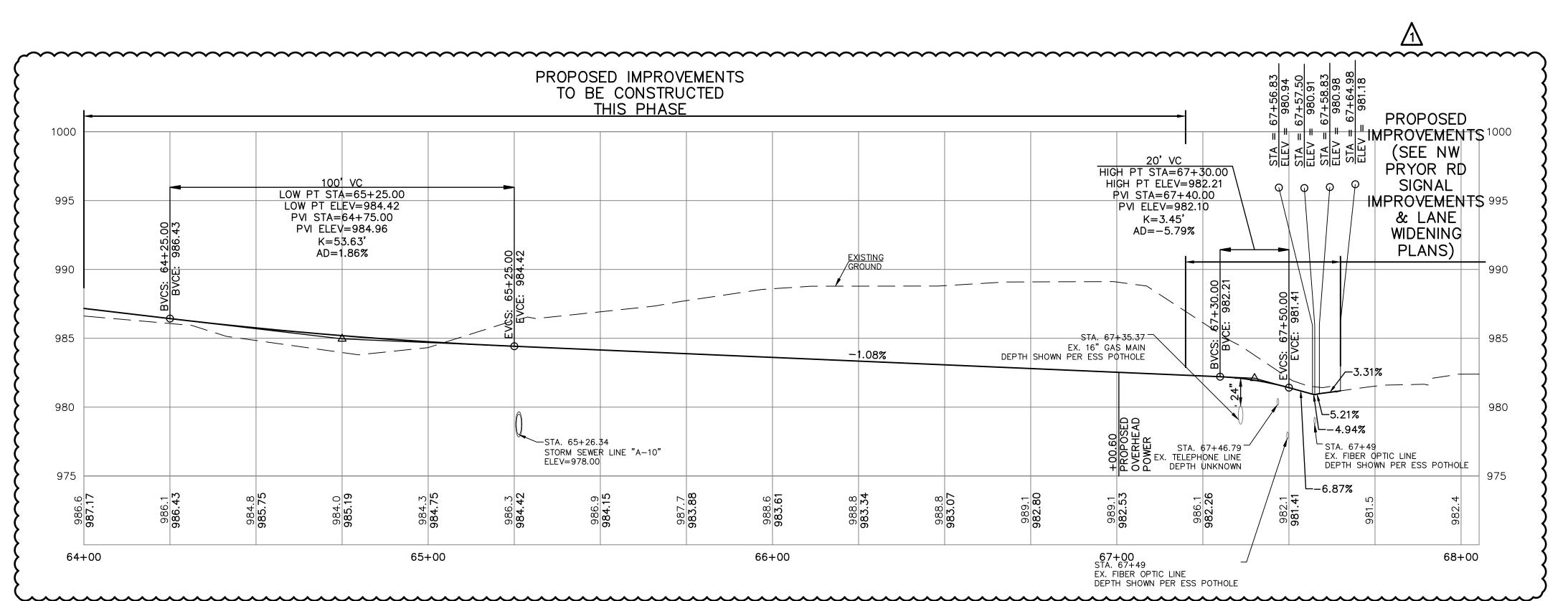
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**RELEASE FOR** 







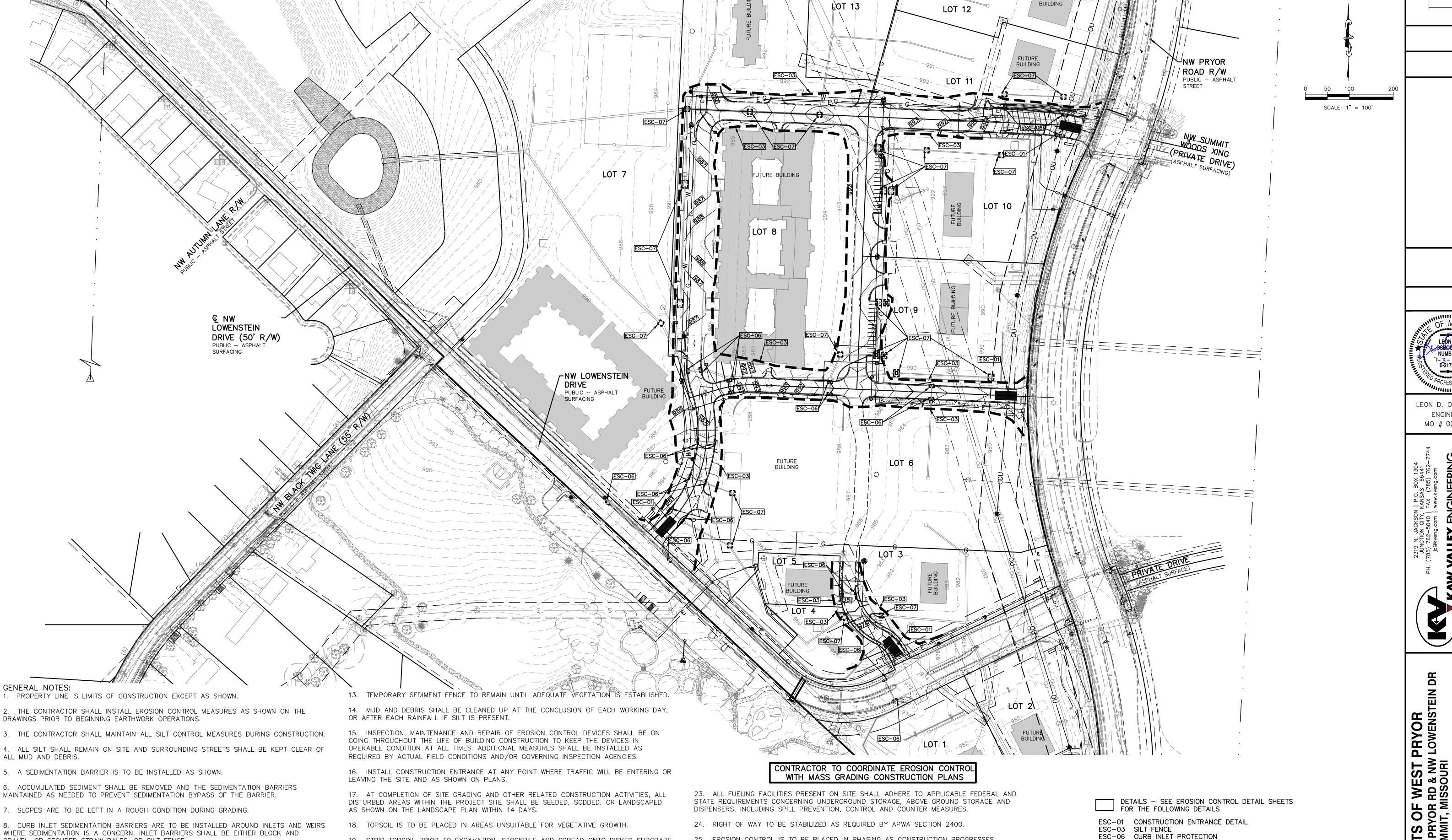
LEON D. OSBOURN ENGINEER MO # 021726

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9. SEDIMENT IS TO BE REMOVED FROM STORM WATER DRAINAGE SYSTEMS.

GRAVEL, OR SECURED STRAW BALES, OR SILT FENCE.

10. RIPRAP IS TO BE INSTALLED AT AREAS OF CONCENTRATED FLOW (I.E. CULVERT OUTLETS).

11. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL AS HE/SHE DEEMS NECESSARY.

12. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT AND LABOR AS NECESSARY TO INSTALL AND MAINTAIN ADEQUATE EROSION AND SILTATION CONTROLS REQUIRED TO PREVENT SOIL EROSION FROM LEAVING THE PROJECT SITE. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO ENSURE THAT METHODS UTILIZED ARE ADEQUATE AND COMPLY WITH REQUIREMENTS OF THE SPECIFICATIONS AND GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.

19. STRIP TOPSOIL PRIOR TO EXCAVATION, STOCKPILE AND SPREAD ONTO DISKED SUBGRADE (4" MIN) A THICKNESS OF 4 INCHES.

20. ROCK LINING (RIPRAP) SHALL BE DURABLE STONE CONTAINING A COMBINED TOTAL OF NOT MORE THAN 10 PERCENT OF EARTH, SAND, SHALE AND NON-DURABLE ROCK. AT LEAST 60 PERCENT OF THE MASS SHALL BE OF PIECES HAVING A MINIMUM WEIGHT OF 150 POUNDS OR MORE PER CUBIC FOOT.

21. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR RESOLVING COMPLAINTS IN THE EVENT THAT COMPLAINTS OR DAMAGE CLAIMS ARE FILED DUE TO DAMAGES OCCURRING ADJACENT TO OR DOWNSTREAM FROM PROPERTY BY SEDIMENT RESULTING FROM EROSION ON THE PROJECT SITE.

22. GOOD HOUSEKEEPING PRACTICES SHALL BE MAINTAINED ON SITE TO KEEP SOLID WASTE FROM ENTRY INTO WATERS.

25. EROSION CONTROL IS TO BE PLACED IN PHASING AS CONSTRUCTION PROGRESSES.

26. MINIMAL WASHING OF CONCRETE EQUIPMENT ALLOWED, CHUTE ETC. CONCRETE WASHOUT OF THE DRUM IS NOT ALLOWED. ANY PIT/WASHOUT AREA NEEDS TO BE MAINTAINED IN A NON-DISCHARGING MANNER AND ANY WASTE RESIDUE WILL NEED TO BE CLEANED OUT AND REMOVED AT THE END OF PROJECT.

27. EROSION CONTROL SEDIMENT FENCE TO BE INSTALLED 1'-0" BEHIND CURB & GUTTER UPON COMPLETION OF BACKFILL OF CURB IN ALL AREAS WHERE SLOPES FROM LOT DRAIN TOWARDS CURB. UPON COMPLETION OF FINAL GRADING THE TOES OF ALL EMBANKMENTS IN EXCESS OF TWO FEET IN HEIGHT WILL HAVE EROSION CONTROL SEDIMENT FENCE INSTALLED.

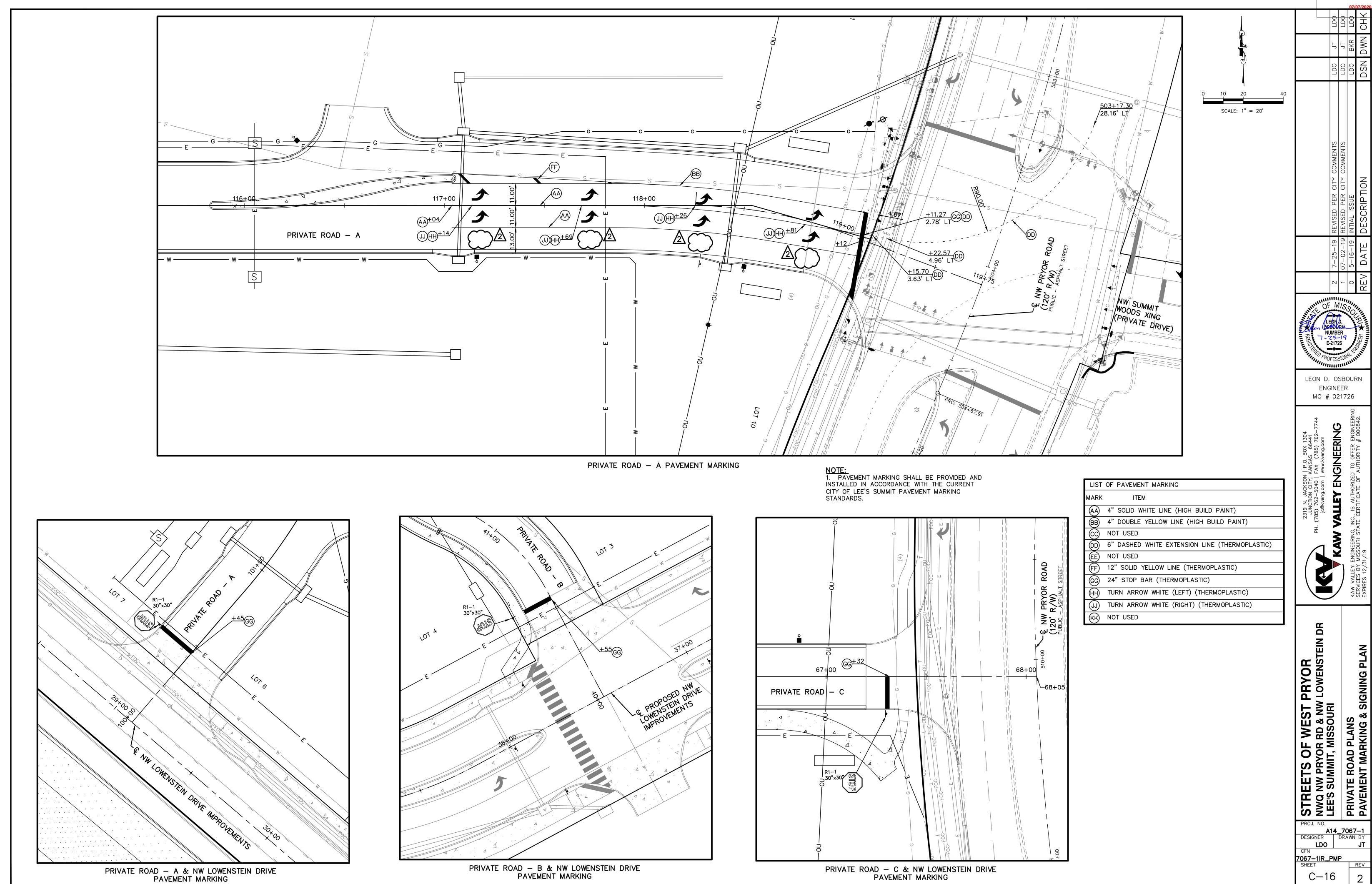
ESC-07 AREA INLET AND JUNCTION BOX PROTECTION

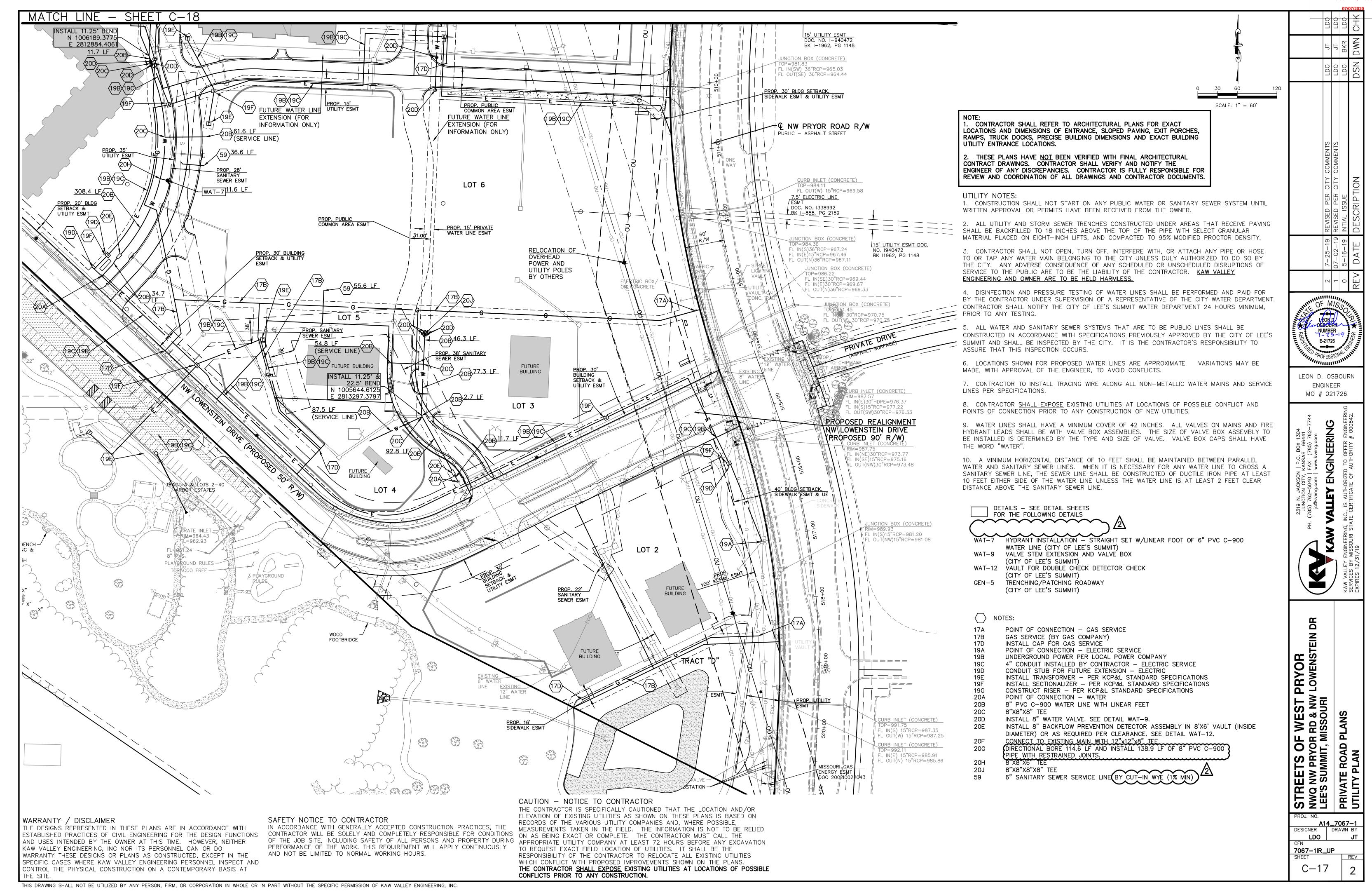
#### EROSION & PROPOSED IMPROVEMENTS LEGEND:

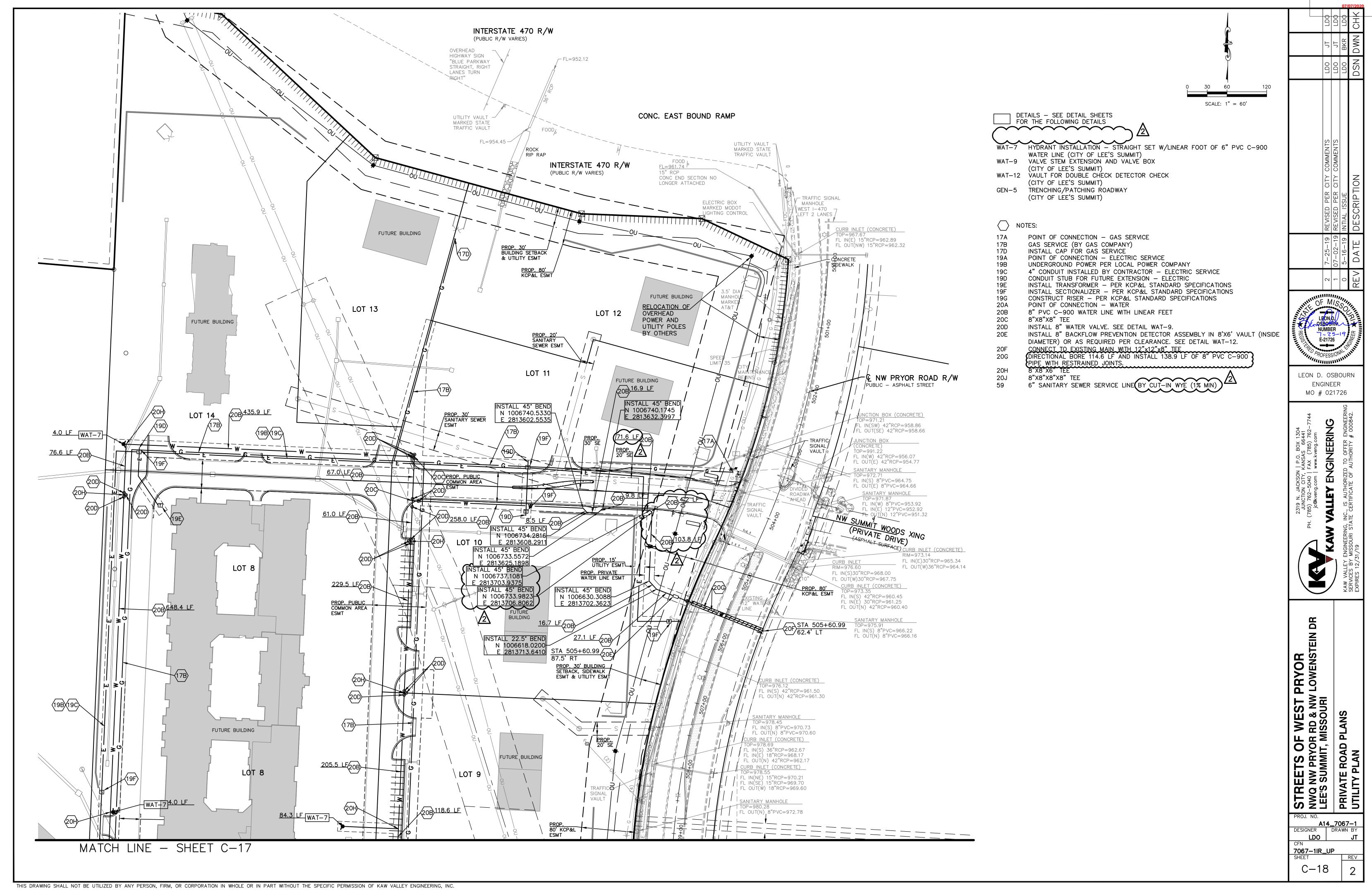
----- EXISTING GROUND CONTOUR (1' INTERVALS)

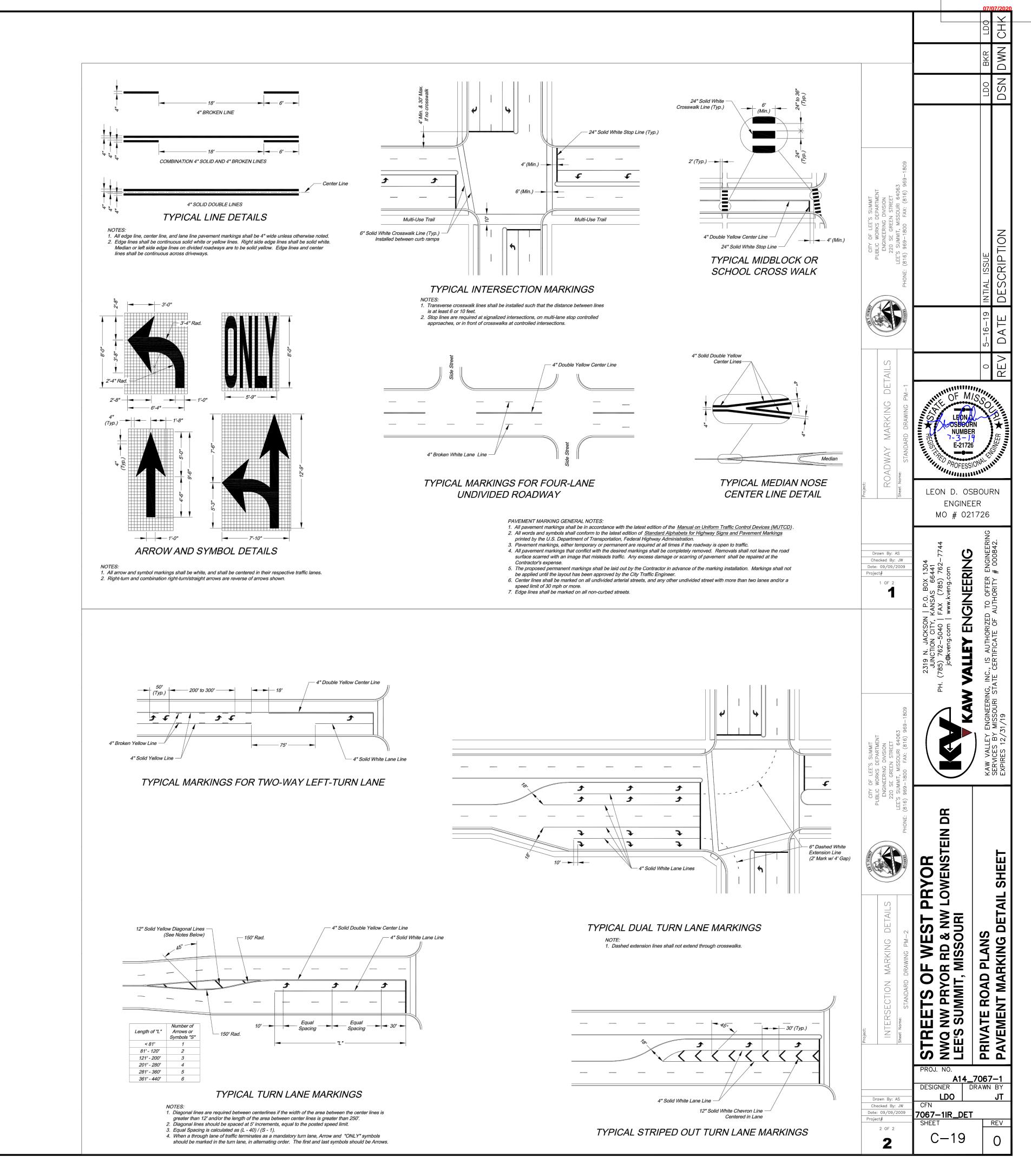
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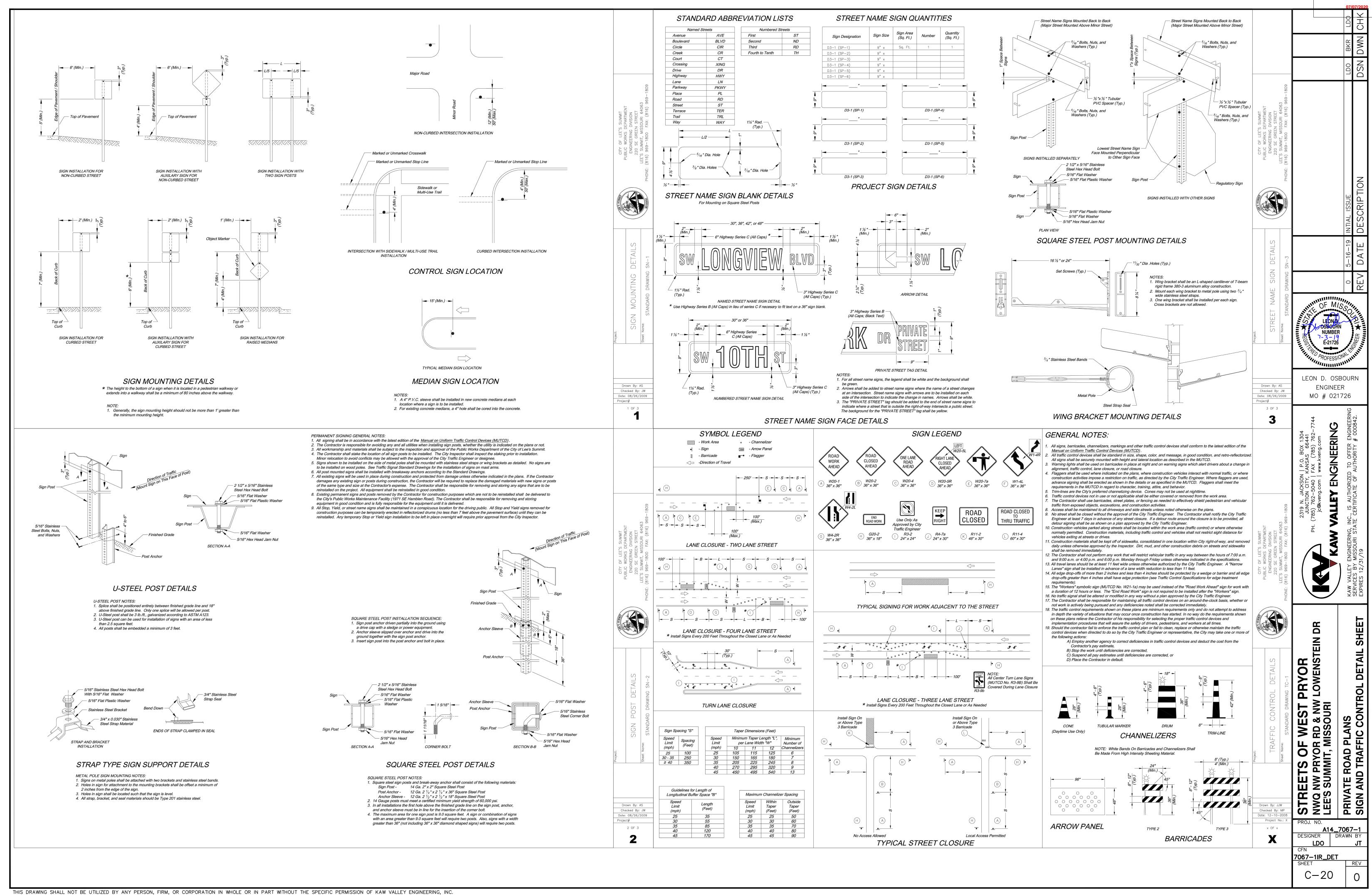
INLET PROTECTION



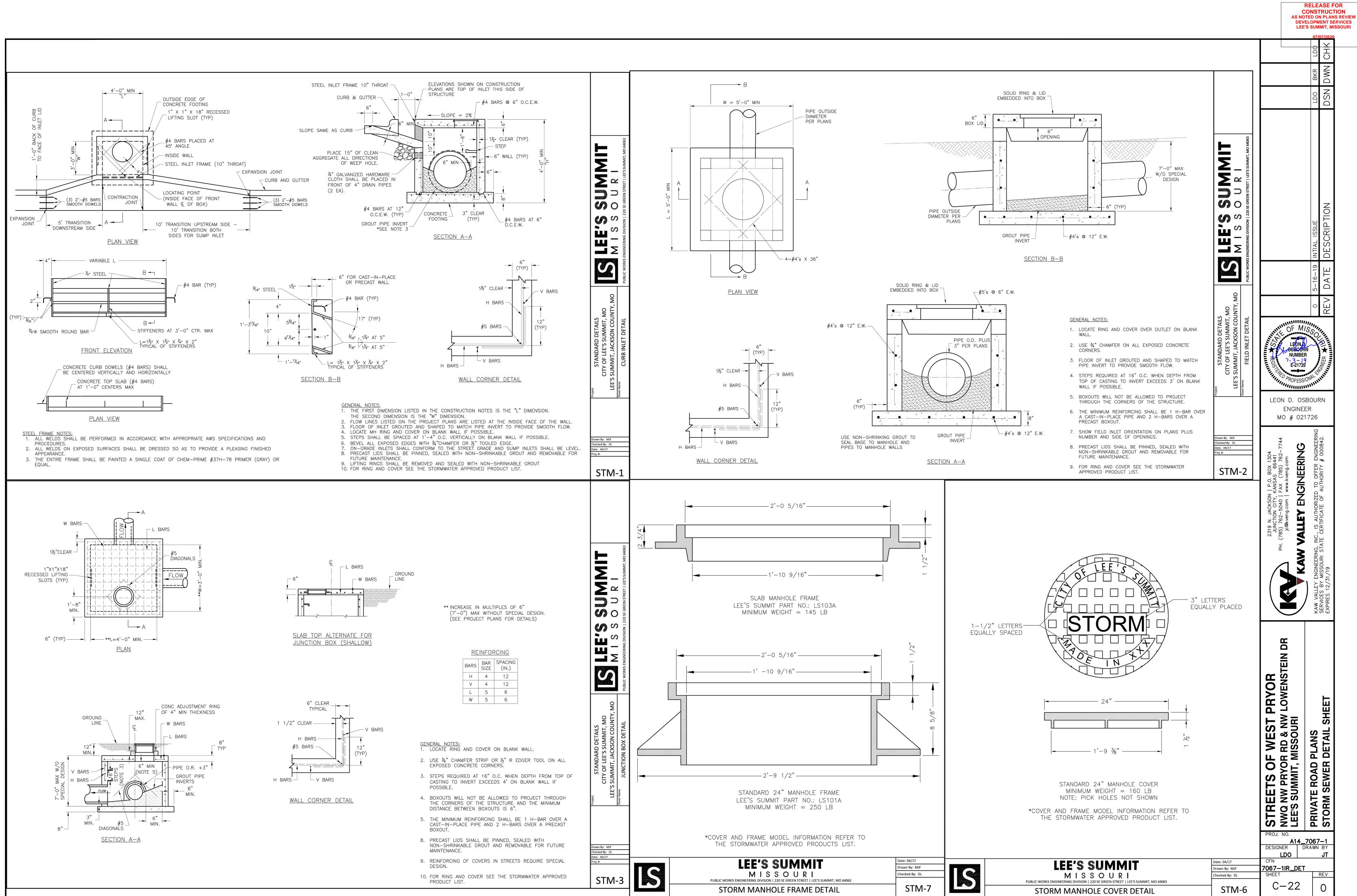








RELEASE FOR
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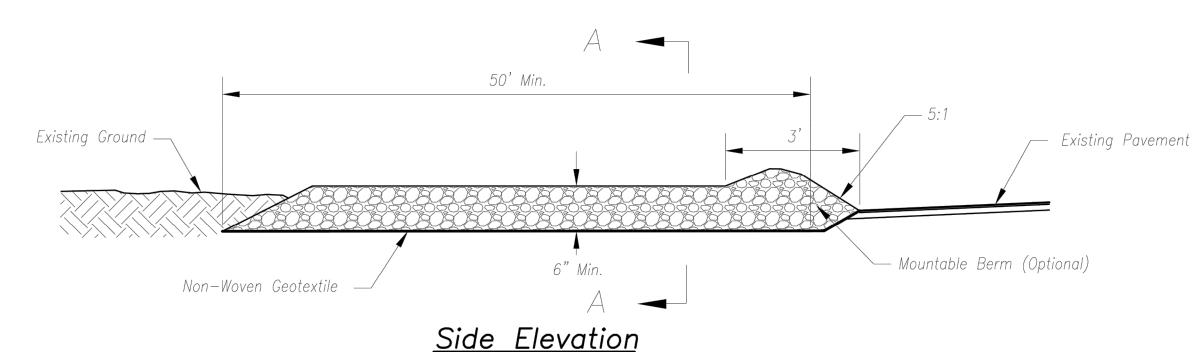
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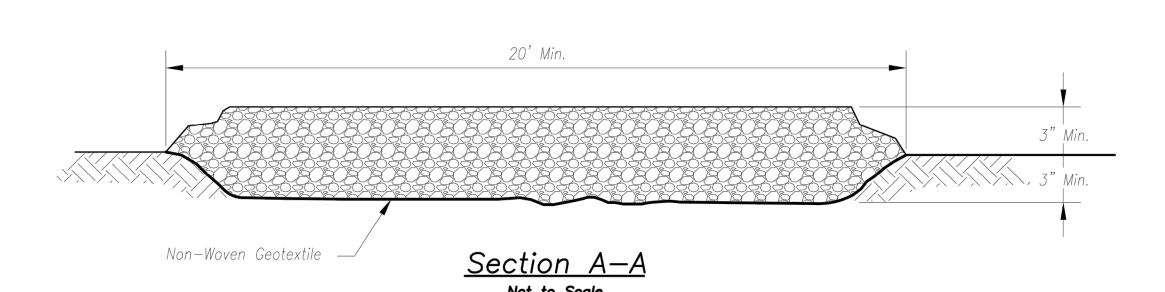
C - 23

50' Min. Existing Ground — — Washrack / Rumble Strip (Optional) Existing Pavement /\\\\\\\ 2-3" Coarse ——— Positive drainage Aggregate Sediment Trapping Device \* - Must extend full width of ingress and egress operation

#### <u>Plan View</u> Not to Scale

Not to Scale





#### Notes for Construction Entrance:

- 1. Avoid locating on steep slopes, at curves on public roads, or downhill of disturbed area.
- 2. Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
- 3. If slope towards the public road exceeds 2%, construct a 6- to 8-inch high ridge with 3H:1V side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
- 4. Install pipe under the entrance if needed to maintain drainage ditches along public roads.
- 5. Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.
- 6. Divert all surface runoff and drainage from the entrance to a sediment control device.
- 7. If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

#### Maintenance for Construction Entrance:

1. Reshape entrance as needed to maintain function and integrity of Installation. Top dress with clean aggregate as needed.

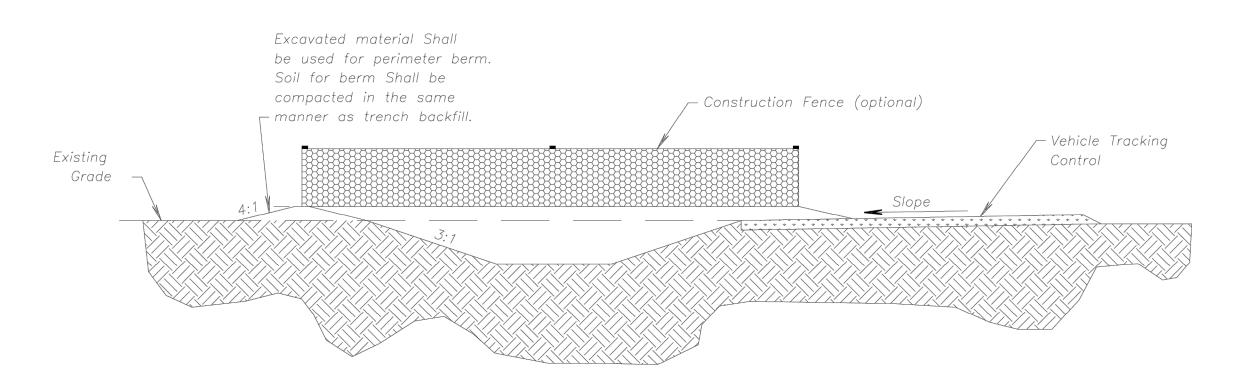
### **CONSTRUCTION ENTRANCE**

Notes for Concrete Washout:

- 1. Concrete washout areas shall be installed prior to any concrete placement on site.
- 2. Concrete washout area shall include a flat subsurface pit sized relative to the amount of concrete to be placed on site. The slopes leading out of the subsurface pit shall be 3:1. The vehicle tracking pad shall be sloped towards the concrete washout area.
- 3. Vehicle tracking control is required at the access point to all concrete washout areas.
- 4. Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to operators of concrete truck and pump rigs.
- 5. A one-piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.

#### Maintenance for Concrete Washout:

- 1. Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
- 2. Concrete washout areas shall be enlarged as necessary to maintain capacity for wasted concrete.
- 3. Concrete washout water, wasted pieces of concrete and all other debris in the subsurface pit shall be transported from the job site in a water—tight container and disposed of properly.
- 4. Concrete washout areas shall remain in place until all concrete for the project is placed.
- 5. When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and topsoil, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.



#### CONCRETE WASHOUT

Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control; Concrete Washout modified from 2009

City of Great Bend Standard Drawings.

AMERICAN PUBLIC WORKS ASSOCIATION KANSAS CITY

METRO CHAPTER

ADOPTED:

STANDARD DRAWING

10/24/2016

NUMBER ESC-OI

CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT

LEON D. OSBOURN ENGINEER

MO # 021726

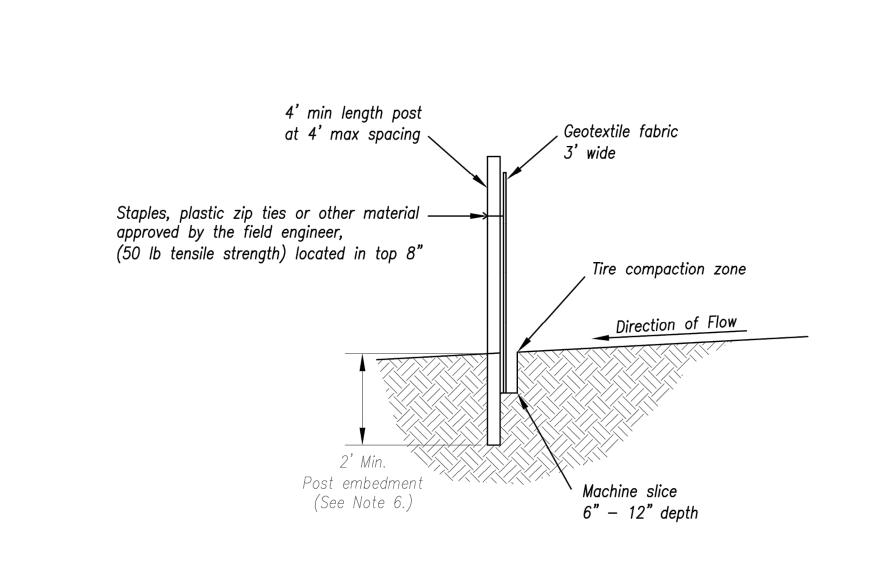
N | P.O. BOX 1304 KANSAS 66441 | FAX (785) 762-7 | www.kveng.com

DR

STREETS OF WEST PRYOR NWO NW PRYOR RD & NW LOWENSTEIN LEE'S SUMMIT, MISSOURI

A14\_7067-1
DESIGNER DRAWN BY

FENGINEERING
HORIZED TO OFFER ENGINEER
ATE OF AUTHORITY # 000842



(\*) <u>POSTS</u>

2' Min.

- MIN, LENGTH 4'

- HARDWOOD 1 3/6" x 1 3/6"

Posts (\*) at 4' Max. spacing —

- NO.2 SOUTHERN PINE 2 %" x 2 %"

- STEEL 1.33 LB/FT

(\*\*) – Geotextile Fabric shall meet the requirements of AASHTO M288

Backfilled trench

Filter fabric Material (\*\*) —

For additional strength filter fabric

material can be attached to woven

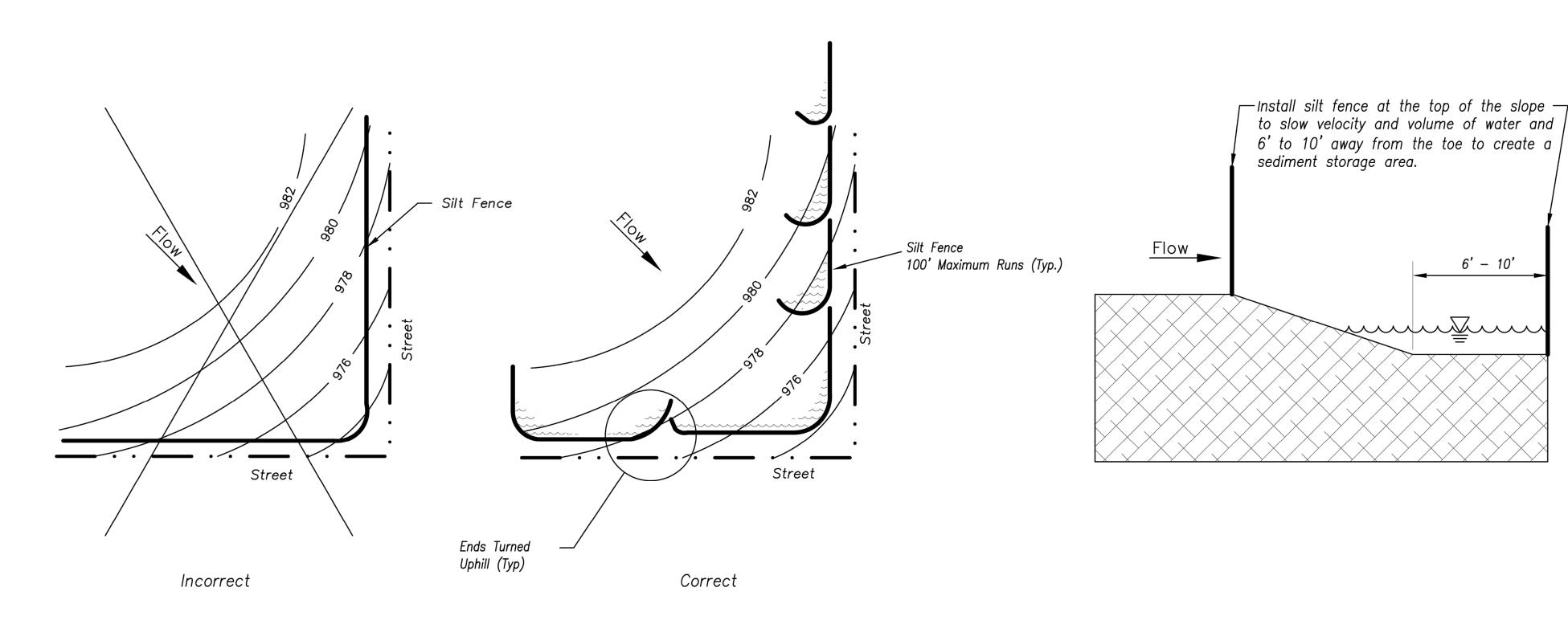
wire fencing with min. wire gauge between 9 and 14 and max. mesh

spacing of 6" which has been

fastened to the post.

SILT FENCE DETAILS

Not to Scale



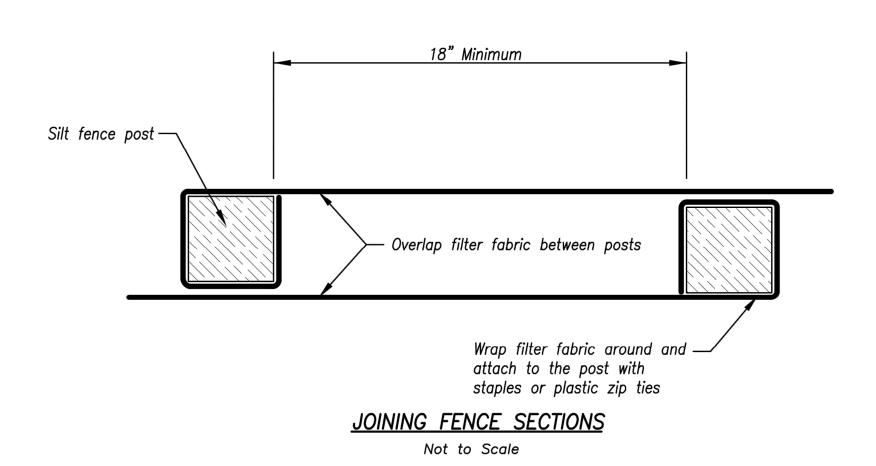
<u>Figure A</u> SILT FENCE LAYOUT Not to Scale

#### <u>Notes:</u>

- 1. In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
- 2. Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
- 3. Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
- 4. Attach fabric to upstream side of post.
- 5. Install posts a minimum of 2' into the ground.
- 6. Trenching will only be allowed for small or difficult installation, where slicing machine cannot be reasonably

#### <u>Maintenance:</u>

- 1. Remove and dispose of sediment deposits when the deposit approaches 1/3 the height of silt fence.
- 2. Repair as necessary to maintain function and structure.







KANSAS CITY

NUMBER ESC-03 SILT FENCE ADOPTED:

METRO CHAPTER

STANDARD DRAWING

LDO 7067-1IR\_DET SHEET 10/24/2016

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

6' - 10'

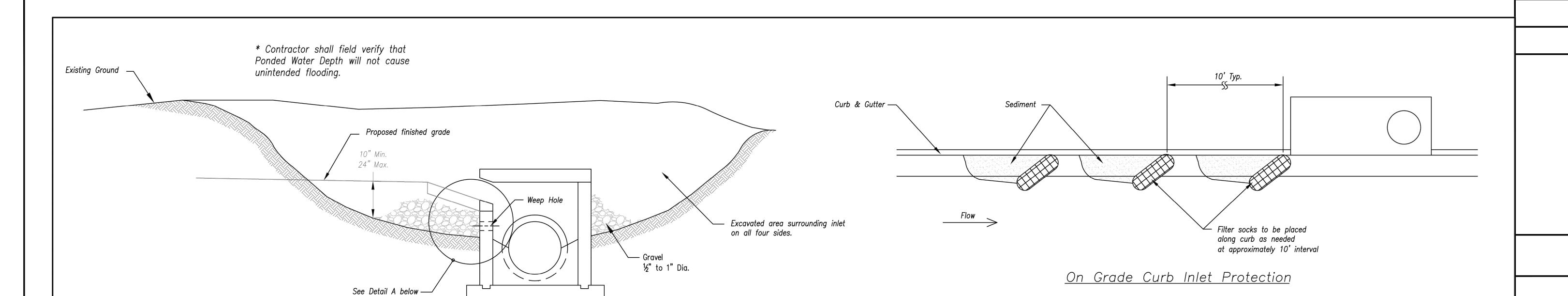
LEON D. OSBOURN

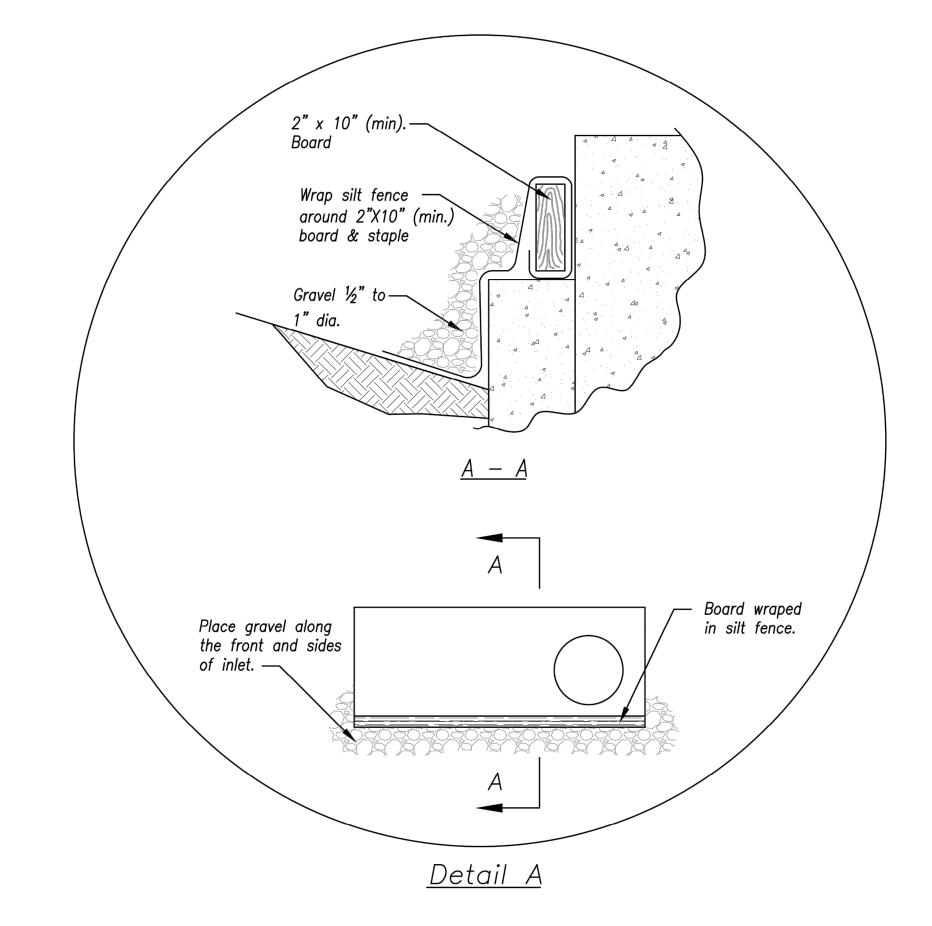
ENGINEER

MO # 021726

2319 N. JACKSON | P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 (785) 762-5040 | FAX (785) 762-jc@kveng.com | www.kveng.com

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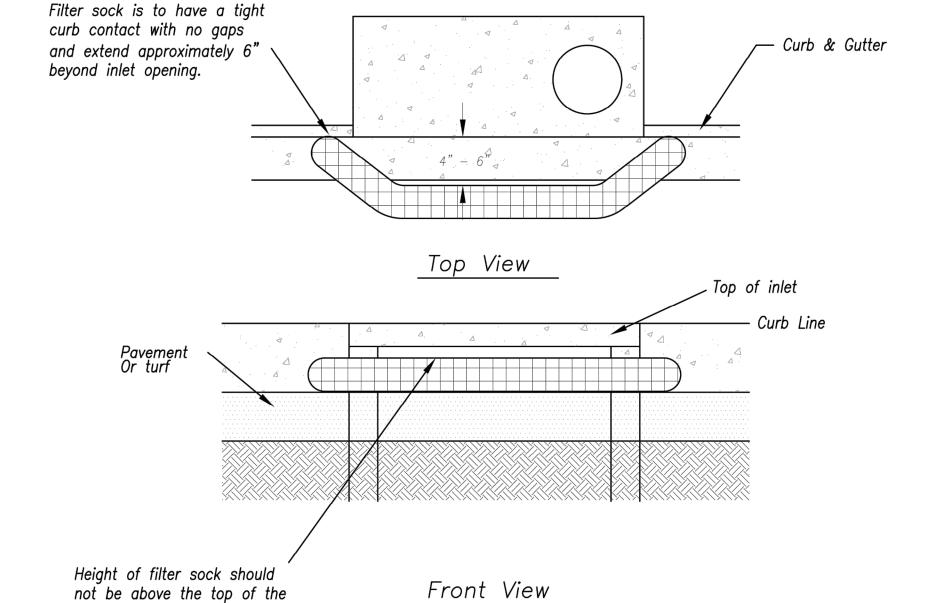
EARLY STAGE CURB INLET (Open Box and Prior to Pouring Curb and Inlet Throat)

#### <u>Notes:</u>

- 1. Immediately following inlet construction and prior to construction of curb and inlet throat, protect inlet opening by installing 2" X 10" (min.) board wrapped in silt fence. Structures shall have excavated storage area on all four sides to allow settling of sediment (Early Stage Curb Inlet).
- 2. When inlet is completed and curb poured, filter socks or approved equal should be used (Late Stage Curb Inlet). Straw wattles are not approved for curb inlet use.
- Contractor to field verify ponding water shall not create a traffic hazard.

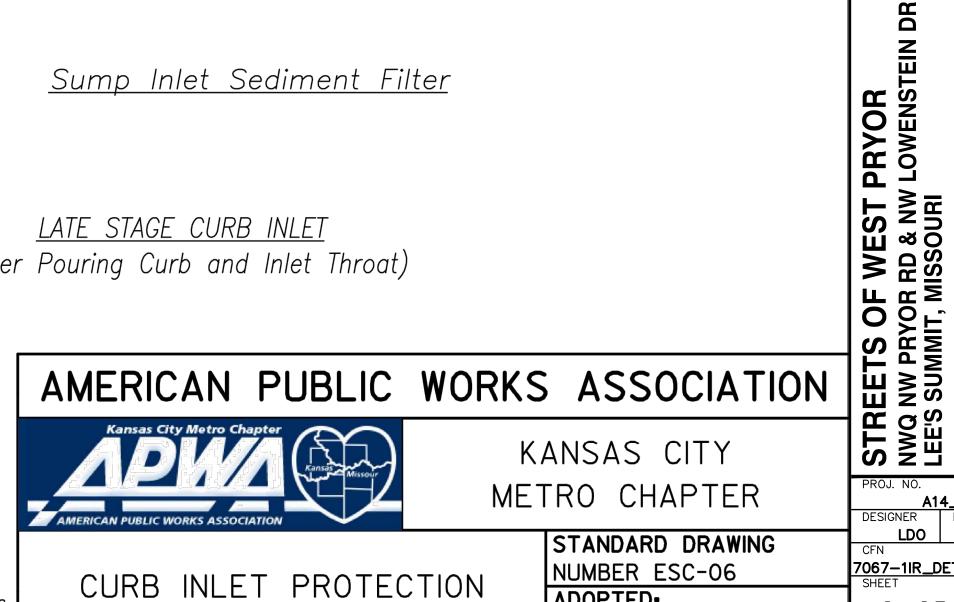
#### <u>Maintenance:</u>

- 1. Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
- 2. Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
- 3. Repair or replace as necessary to maintain function and integrity



Sump Inlet Sediment Filter

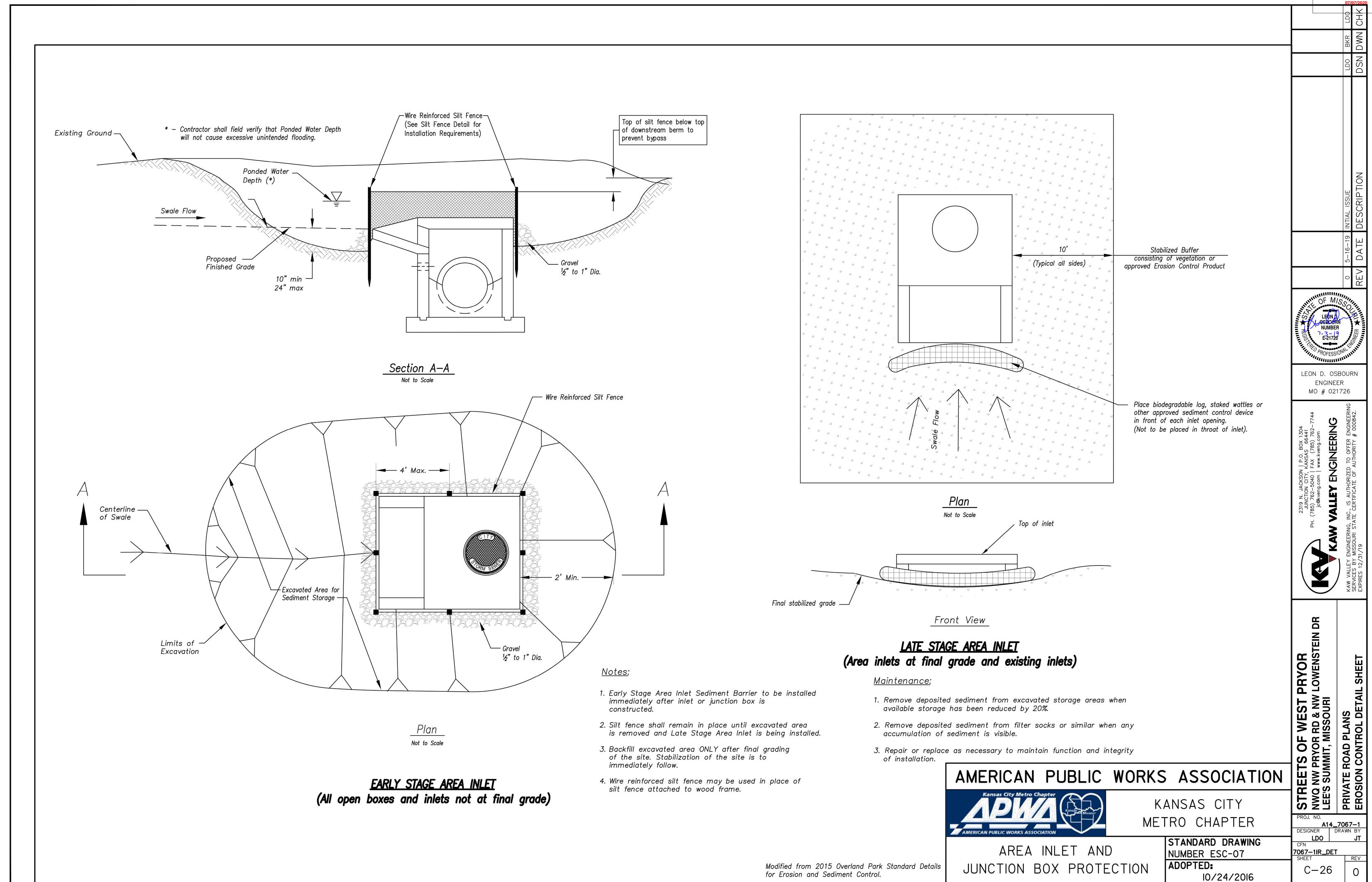
LATE STAGE CURB INLET (After Pouring Curb and Inlet Throat)

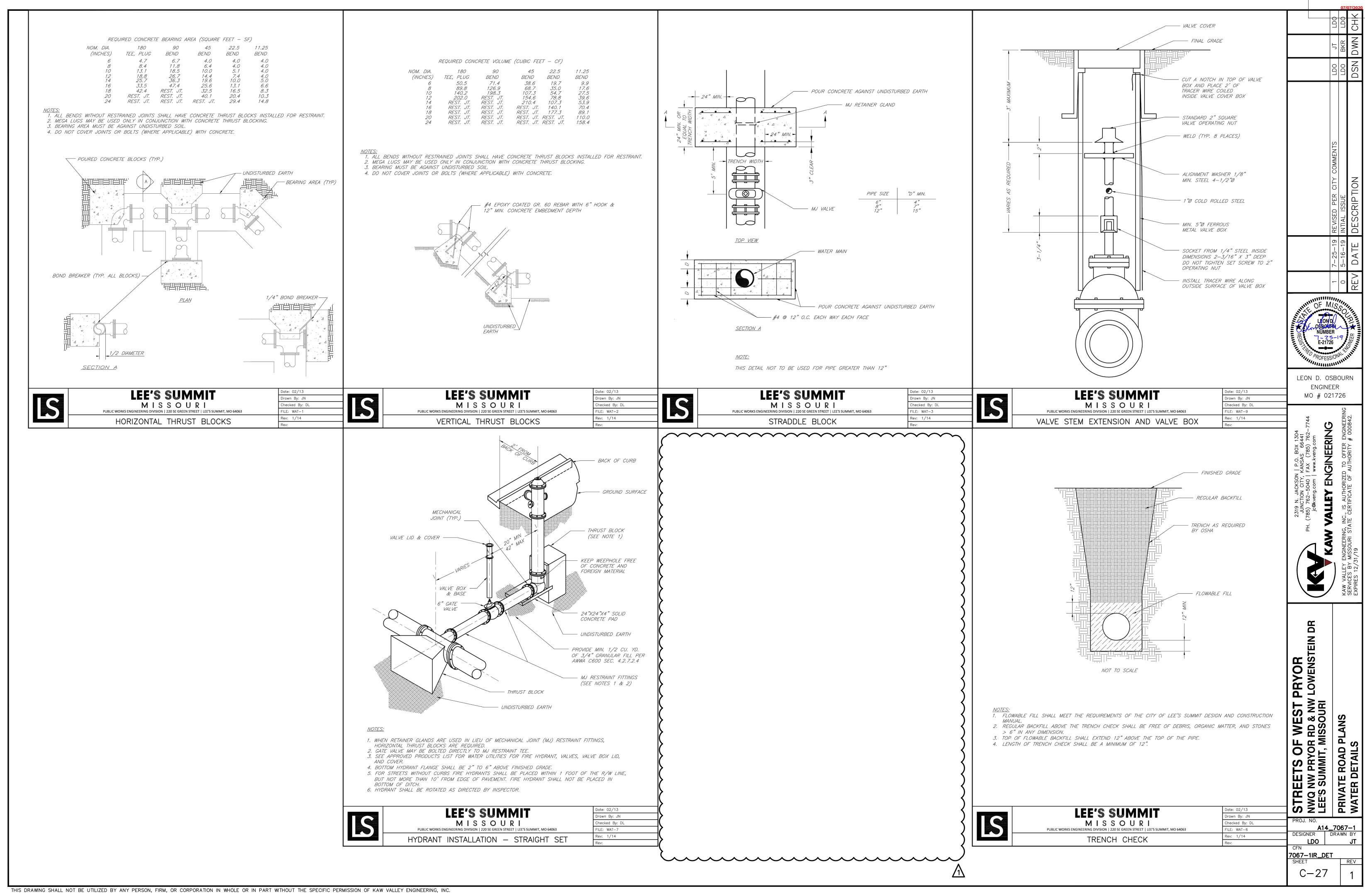


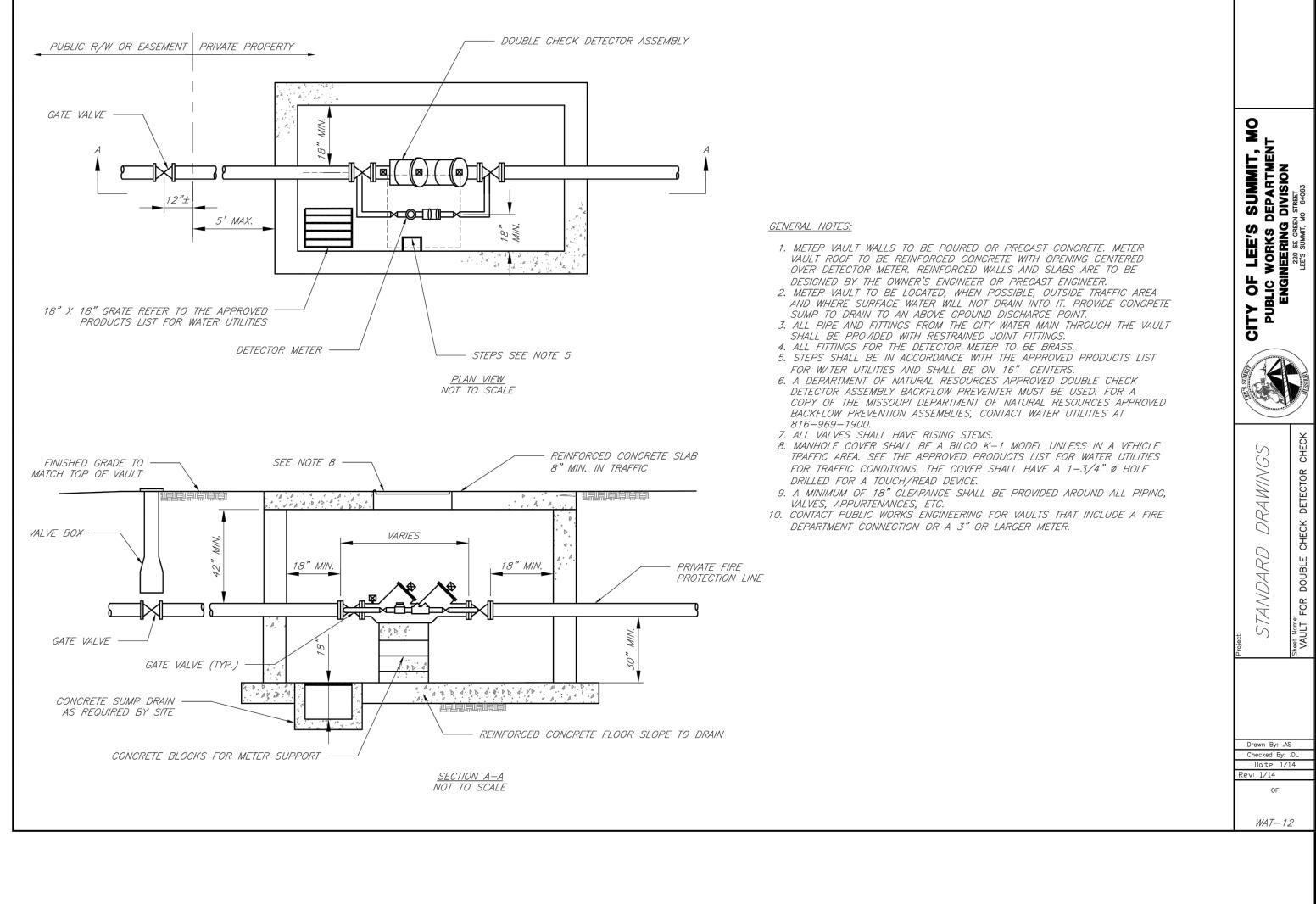
Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

ADOPTED: 10/24/2016

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DESIGNER DRAWN BY LDO 7067-1IR\_DET
SHEET C - 25





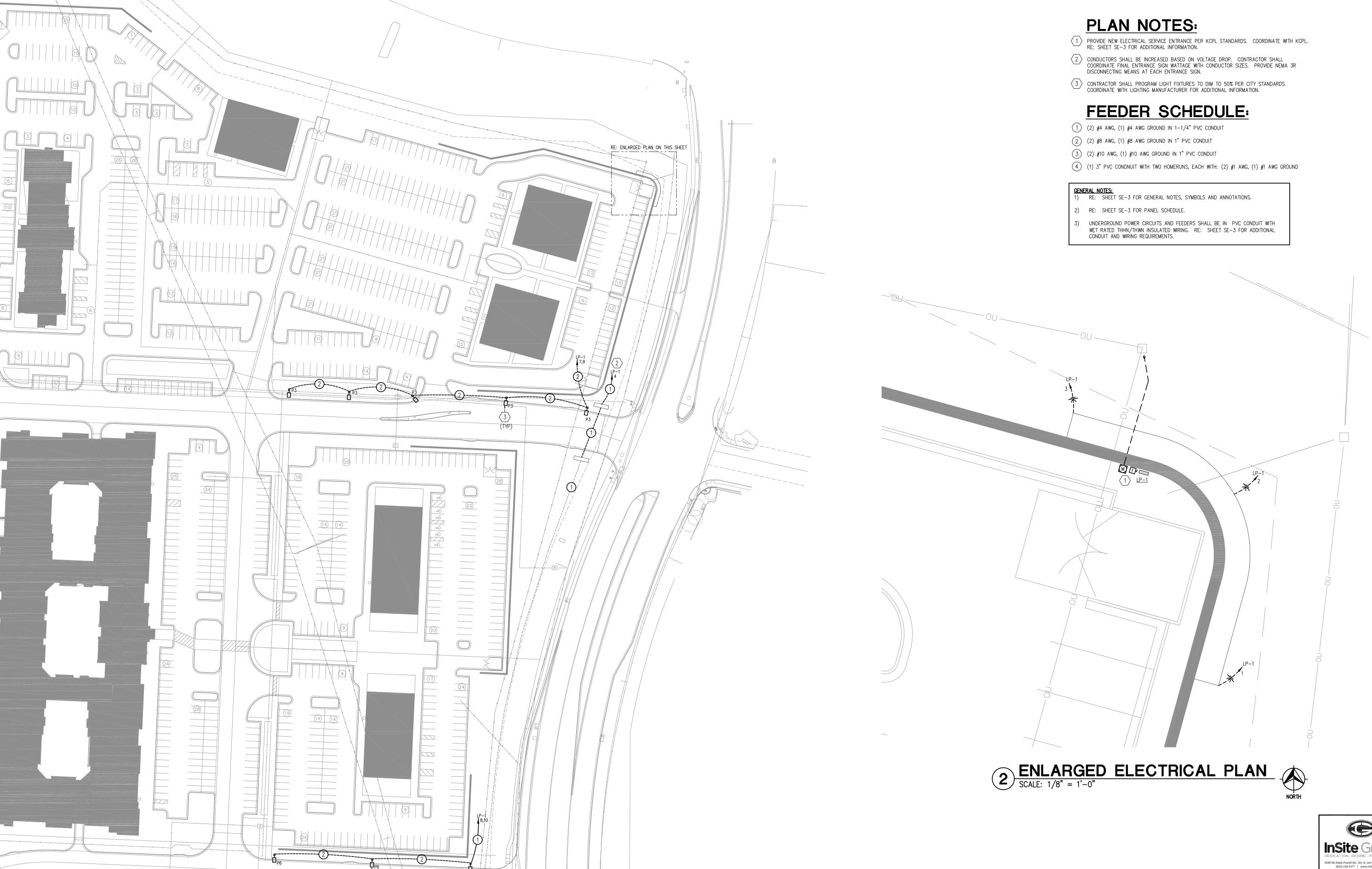


LEON D. OSBOURN ENGINEER MO # 021726

VALLEY ENGINEERING

STREETS OF WEST PRYOR

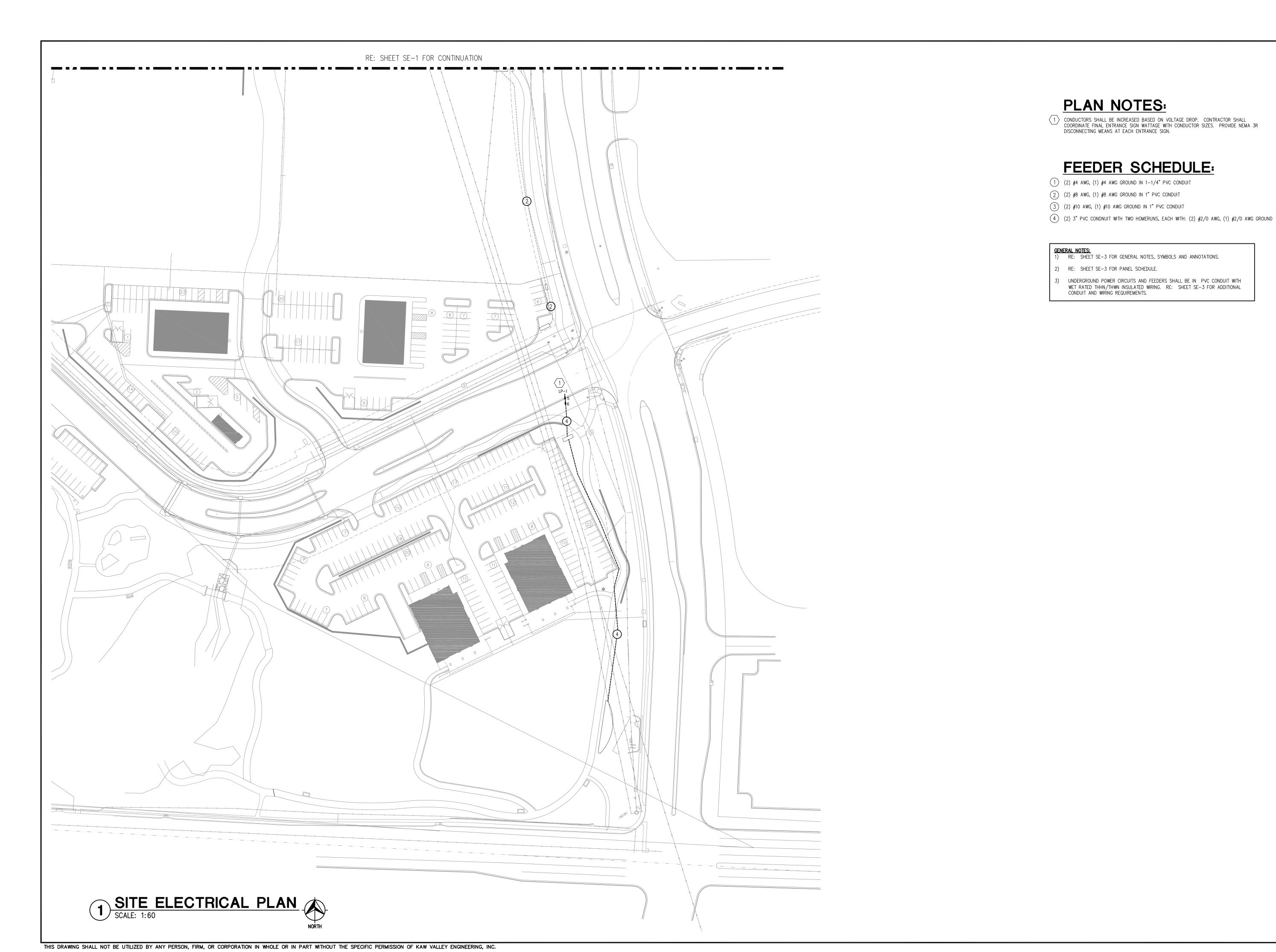
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI
PRIVATE ROAD PLANS
WATER DETAILS

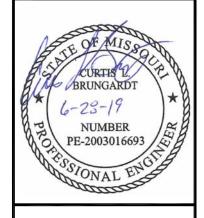


SITE ELECTRICAL PLAN
SCALE: 1:60

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ISG PROJECT NUMBER

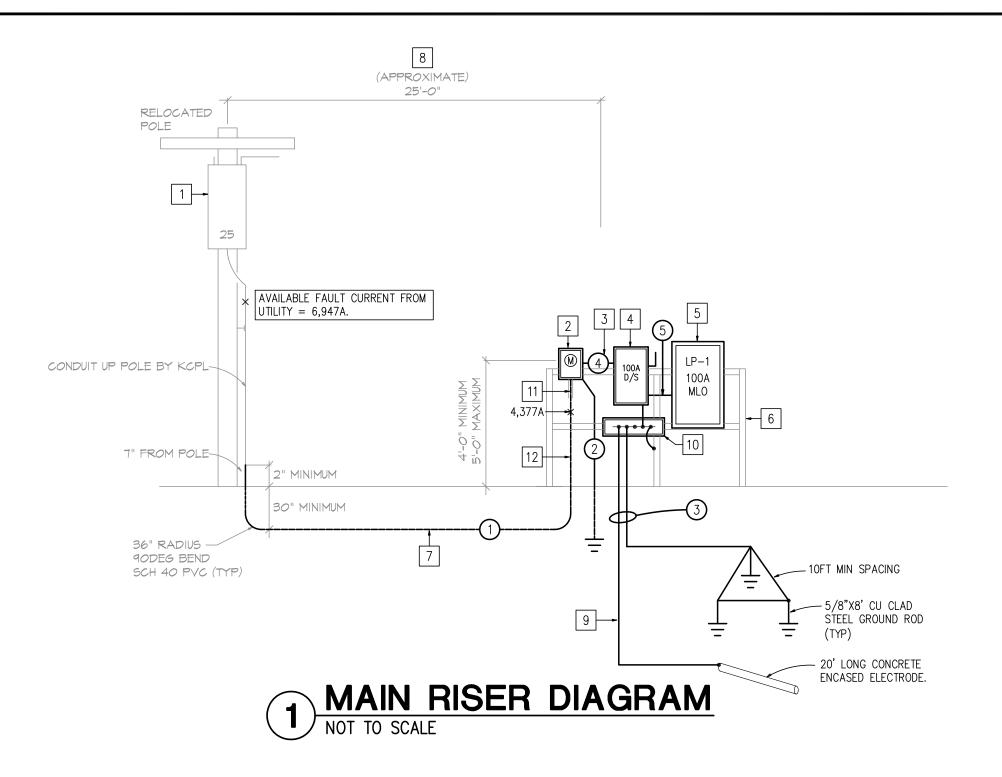




CURTIS L. BRUNGARDT **ENGINEER** MO # 2003016693

STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

ISG PROJECT NUMBER



### **DIAGRAM NOTES:**

- 1 EXISTING RELOCATED UTILITY POLE AND POLE MOUNTED TRANSFORMERS. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS.
- PROVIDE AND INSTALL NEW KCPL APPROVED METER SOCKET. NEW METER SHALL BE INSTALLED AT 4'-0" MINIMUM AND A MAXIMUM OF 5'-0" (CENTER OF SOCKET). INSTALL PER UTILITY COMPANY REQUIREMENTS.
- 3 CONDUIT FROM METER SHALL BE 1-1/4" RIGID METALLIC CONDUIT.
- PROVIDE AND INSTALL NEW SERVICE RATED, NEMA 3R, 100A FUSED DISCONNECT SWITCH WITH 100A FUSES. DISCONNECT SHALL HAVE LUGS AND BAR FOR SERVICE GROUNDING. DISCONNECT SWITCH FUSES SHALL BE RATED FOR 100,000 AIC. CONTRACTOR SHALL TAG 100A DISCONNECT WITH PERMANENT LABEL.
- PROVIDE AND INSTALL NEW 100A, 120/240V, 1PH, 3W MAIN LUG ONLY PANEL. PANEL SHALL BE RATED FOR 35,000 AIC.
- PROVIDE NEW UNISTRUT SUPPORT SYSTEM FOR SERVICE ENTRANCE. CONTRACTOR SHALL INSTALL PER KCPL STANDARDS SEE DETAIL 2 ON THIS SHEET. CONTRACTOR SHALL GROUND UNISTRUT SYSTEM TO MAIN SYSTEM GROUNDING WITH A #6 AWG CONDUCTOR.
- PROVIDE NEW SERVICE CONDUIT AND CONDUCTORS. CONTRACTOR SHALL SUPPLY PULL STRING IN CONDUIT. CONDUIT SHALL EXTEND CONDUIT UP UTILITY AT A MINIMUM OF 2". PROVIDE SLIP JOINTS AT CONNECTIONS. CONTRACTOR SHALL PROVIDE ADDITIONAL LENGTH OF SERVICE CONDUCTORS TO ALLOW FOR KCPL TO INSTALLATION TO UTILITY TRANSFORMER. COORDINATE WITH KCPL FOR CONNECTION TO MAIN SERVICE DISCONNECT. RE: FEEDER SCHEDULE.
- 8 APPROXIMATE HORIZONTAL DISTANCE FROM UTILITY POLE TO BUILDING SERVICE ENTRANCE. CONTRACTOR SHALL CONFIRM LENGTH REQUIRED TO GET CONDUIT BELOW RETAINING WALL. FIELD VERIFY EXACT LOCATION OF EXISTING UTILITY POLE AND VERIFY EXACT DISTANCE.
- 9 CONNECT GROUNDING ELECTRODE CONDUCTOR TO AVAILABLE CONCRETE ENCASED ELECTRODE (I.E. RETAINING WALL AND SIGN). PROVIDE GROUNDING TO AVAILABLE CONNECTIONS PER NEC 250.
- PROVIDE AND INSTALL NEW COPPER GROUND BAR IN NEMA 3R WIREWAY FOR CONNECTIONS TO GROUNDING ELECTRODE SYSTEM.
- CONTRACTOR SHALL PROVIDE SLIP AND JOINT AND INSULATED BUSHINGS PER KCPL REQUIREMENTS.
- CONTRACTOR SHALL TRANSITION TO SCHEDULE 80 PVC AT OR BELOW GRADE. PROVIDE CLAMP AT FINISH GRADE TO UNSITRUT SYSTEM. LEAVE CLAMP LOOSE TO ALLOW SLIP JOINT TO WORK.

## FEEDER SCHEDULE:

- (2) #1 AWG, COPPER CONDUCTORS, IN 3" PVC CONDUIT. CONDUCTORS BY CONTRACTOR. COORDINATE WITH KCPL.
- #6 SOLID BARE TINNED COPPER GROUND TO 1/2"x8FT COPPER CLAD STEEL GROUND ROD PER UTILITY REQUIREMENTS.
- #6 AWG SOLID BARE TINNED COPPER GROUND TO GROUND ROD, BUILDING STEEL, ENCASED ELECTRODE, ETC PER NEC 250.
- (4) (2) #1 AWG, COPPER CONDUCTORS, IN 1-1/4" RIGID METAL CONDUIT.
- (2) #1 AWG, (1) #8 AWG GROUND, COPPER CONDUCTORS, IN 1-1/4" RIGID CONDUIT.

## GENERAL NOTES: 1) THESE DRAWINGS ARE SCHEMATIC IN NATURE AND INTENDED TO DEPICT GENERAL SCOPE OF WORK. ALL WORK SHALL BE PERFORMED PER LOCAL AND STATE REQUIREMENTS.

- 2) COORDINATE POWER REQUIREMENTS AND FINAL LOCATIONS OF ALL EQUIPMENT, DEVICES, ETC. WITH FINAL EQUIPMENT SELECTION AND INSTALL ALL NECESSARY DEVICES ALLOWING FOR END TERMINATION/CONNECTIONS.
- 3) ALL WIRING SHALL BE IN PVC CONDUIT BELOW GRADE AND RIGID METAL CONDUIT ABOVE GRADE.
- 4) UPDATE ALL PANELBOARD SCHEDULES.
- 5) FURNISH, INSTALL AND CONNECT ALL WIRE, WIREWAY, CONDUIT, CONNECTORS, OUTLETS, ETC. NECESSARY TO ACHIEVE A COMPLETE ELECTRICAL INSTALLATION. ALTHOUGH SUCH WORK IS NOT SPECIFICALLY SHOWN OR SPECIFIED EQUIPMENT SHALL BE INSTALLED PER CODE REQUIREMENTS PROVIDING A SOUND, SECURE AND COMPLETE INSTALLATION.
- 6) RE: THIS SHEET FOR ELECTRICAL SYMBOLS/NOTATIONS.
- 7) RE: THIS SHEET FOR PANEL SCHEDULES.
- 8) PROVIDE COPPER CONDUCTORS FOR LISTED APPLICATIONS AS FOLLOWS:
- UNDERGROUND POWER CIRCUITS AND FEEDERS: TYPE THHN/THWN, 600 VOLT, 75 DEGREE C (167 DEGREES F) WET RATING AND 90 DEGREES C (194 DEGREES F) DRY RATED THERMOSETTING FILLED INSULATING CABLE.

  \* MINIMUM BRANCH CIRCUIT WIRE SIZE IS #12AWG UNLESS NOTED OTHERWISE
- 9) ALL FIRE RATED ASSEMBLIES SHALL BE MAINTAINED. CAULK AROUND ELECTRICAL PENETRATIONS TO MAINTAIN FIRE RESISTANCE RATING OF THE FIRE RATED ASSEMBLY.
- 10) INSTALL ALL EQUIPMENT WHILE MAINTAINING ALL CLEARANCES PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS AND PER LOCAL CODES.
- 1) THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM HIS/HER WORK.
- 12) DRAWINGS ARE DESIGNED FOR THE MANUFACTURER'S MATERIALS, EQUIPMENT OR SERVICES NAMED ON PLANS AND ANY CHANGES AND THEIR ASSOCIATED COSTS, REQUIRED TO ACCOMMODATE OTHER APPROVED EQUIVALENT MATERIAL OR EQUIPMENT AS WELL AS SPACE REQUIREMENTS FOR THE OTHER APPROVED EQUIVALENT MATERIAL OR EQUIPMENT, MUST BE ASSUMED BY THE CONTRACTOR IN HIS/HER
- 3) CONTRACTOR SHALL CONTACT THE LOCAL ELECTRICAL UTILITY COMPANY AND ARRANGE FOR ELECTRIC SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC., INCURRED BY LOCAL AUTHORITIES INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR ELECTRIC SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF LOCAL AUTHORITIES.

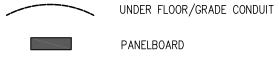
#### | PANELBOARD SCHEDULE: LP-1 (NORTH ENTRANCE) NQOD PANELBOARD TYPE FEEDER ENTRANCE: PANEL LOCATION: 120/240 VOLTAGE 1 PHASE MAIN BREAKER NORTH ENTRANCE 100 AMP MAIN BUS 3 WIRE X MAIN LUGS FEEDER CABLE: MOUNT: 3R NEMA ENCLOSURE 200% NEUT. FEED THRU LUGS SEE ONE-LINE DIAGRAM SOURCE: 10,000 RMS SYMMETRICAL AMPS @ 240 VOLTS SUB-FEED BREAKER X SURFACE UTILITY 6/28/19 DATE X COPPER BUSS SOLID NEUTRAL POLE # L1 | L2 | TYPE | SIZE | TRIP | POLE | TRIP | POLE | SIZE | TYPE | L1 NORTH SIGN #1 NORTH SIGN #3 MIDDLE AREA SIGNS 500 | SOUTH SIGN #2 SOUTH SIGN #1 NORTH ENTRANCE SOUTH ENTRANCE 249 | LIGHTS 9 LIGHTS 11 SPARE SPARE 14 15 SPARE 20 ISPARE SPARE SPACE 29 SPACE SPACE 1415 915 749 1249 CONNECTED VA/PH (LESS FEED THRU & SUB FEED) | L1 - 2164 L2 - 2164 CONNECTED VA/PH FROM FEED THRU AND SUB FEED L1 -L2 -TOTAL CONNECTED VA/PH L1 - 2164 L2 - **2164** LOAD TYPE CODE DEMAND CONNECTED VA DEMAND VA MIN. CODE VA (1.25 x CONT.) REQUIREMENTS THIS | SUB | TOTAL PANEL PNLS LIGHTING (NEC 220-11) 4328 4328 ECEPTACLES (NEC 220-13) 1st $10,000VA + 1/2 \times REMAINING$ 1.25 x LARGEST FLA \_ARGEST MOTOR (NEC 430-24) REMAINING MOTORS (NEC 430-24) 100% REMAINING MOTORS HEATING (NEC 220-15) KITCHEN EQUIPMENT (NEC 220-20) VARIES (SEE CODE SECTION) WATER HEATER 100% 100% 0.25 x CODE MIN.VA 1353 TOTAL LOADS 4328 4328 4328 6763 28 AMPS

1. IF WIRE SIZE IS NOT SHOWN, REFERNCE ONELINE OR SITE PLANS.

NOT TO SCALE

## **ELECTRICAL SYMBOLS**





NON-FUSED DISCONNECT SWITCH.

FUSED DISCONNECT SWITCH.

JUNCTION BOX.

## DIAGRAM NOTE DESIGNATION.

 $\times_{F=XXXA}$  XXX = CALCULATED 3-PHASE FAULT CURRENT

PLAN NOTE DESIGNATION.

#### **ELECTRICAL NOTATIONS**

UNO

TYP

Customer Self Contained 120/240V Meter Stand

AMPS
ABOVE COUNTER, GROUND FAULT
INDICATES GROUND FAULT
INDICATES WEATHERPROOF
UNLESS NOTED OTHERWISE
TYPICAL

CURTIN D
BRUNGARDT

6-23-19
NUMBER
PE-2003016693

CURTIS L. BRUNGARD ENGINEER MO # 2003016693

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KAW VALLEY ENGINEERING

ST PRYOR
NW LOWENSTEIN DR

TREETS OF WEST PRYC NQ NW PRYOR RD & NW LOWE E'S SUMMIT, MISSOURI

> DESIGNER AWN

SHEET

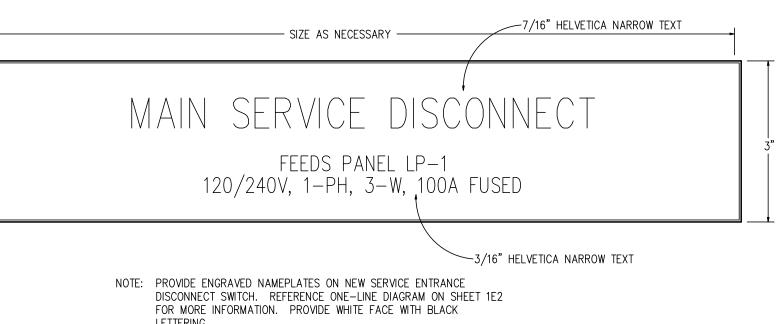
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ISG PROJECT NUMBER 16-5419-3



# SERVICE ENTRANCE DISCONNECT SWITCH NAMEPLATE

SIZE AS NECESSARY

PANEL LP—1

FED FROM MAIN SERVICE DISCONNECT
120/240, 1—PH, 3—W, 100A

3/16" HELVETICA NARROW TEXT

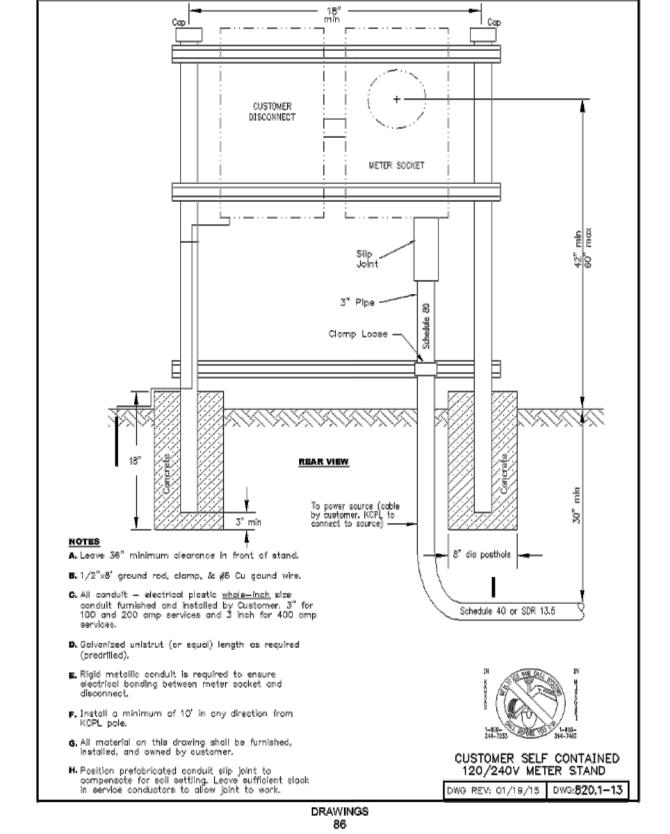
NOTE: PROVIDE ENGRAVED NAMEPLATES ON NEW PANELS INDICATING WHERE

3 MAIN PANEL NAMEPLATE
NOT TO SCALE

LABEL FOR ALL PANELS IN BUILDING.

IT IS FED FROM. REFERENCE ONE—LINE DIAGRAM ON SHEET 1E2 FOR MORE INFORMATION. PROVIDE WHITE FACE WITH BLACK LETTERING.

ABOVE DETAIL IS A TYPICAL LABEL FOR PANELS. PROVIDE SIMILAR



(2) KCPL METER STAND

NOT TO SCALE

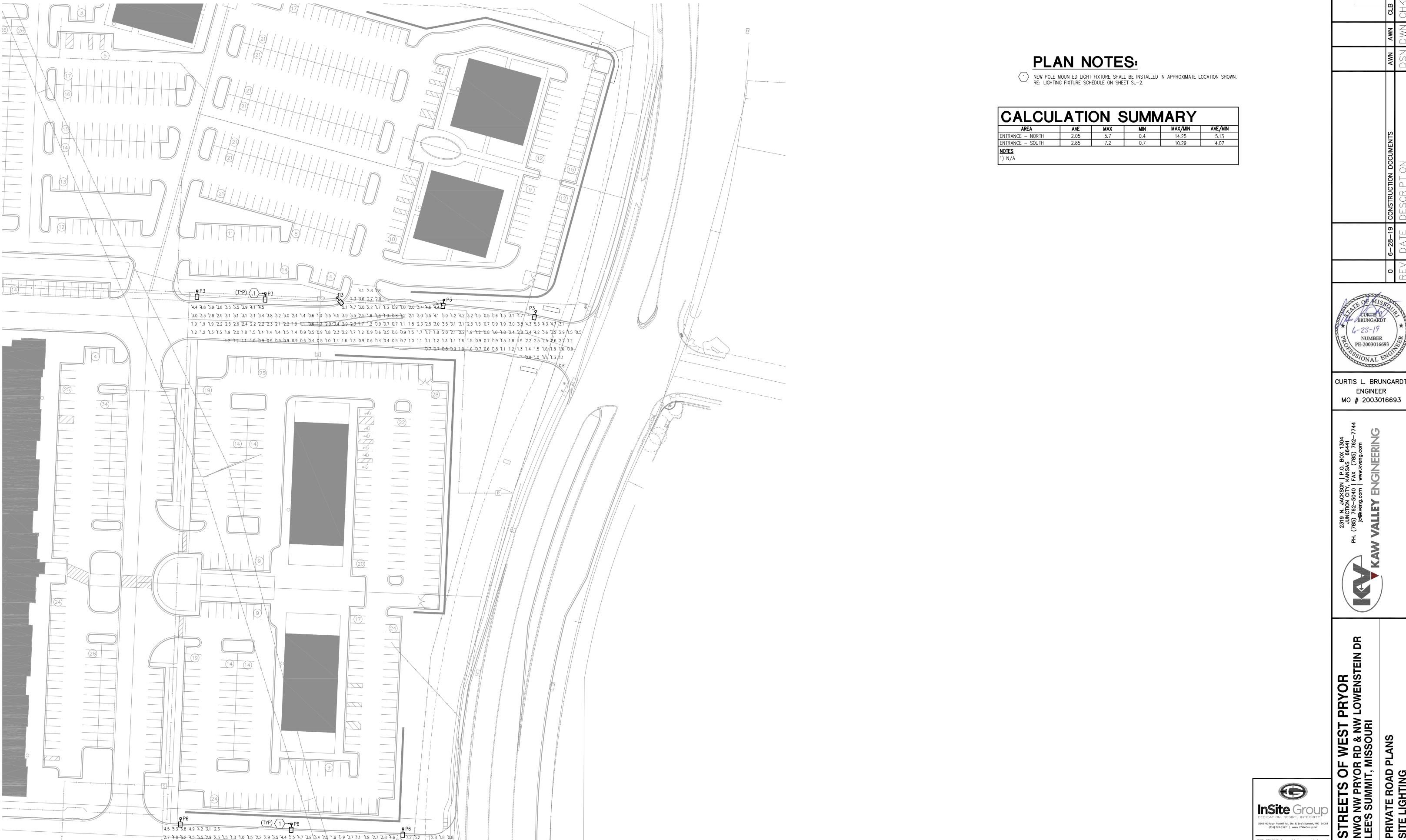
NUMBER

**ENGINEER** MO # 2003016693

DR

PRIVATE ROAD PLANS SITE LIGHTING

PE-2003016693



1 PHOTOMETRIC PLAN
SCALE: 1:50

3.7 4.8 5.2 4.5 3.5 2.9 2.3 1.5 1.0 1.0 1.5 2.2 2.9 3.5 4.4 5.5 4.7 3.9 3.4 2.5 1.6 0.9 0.7 1.1 1.9 2.7 3.8 4.6 6.5 7.2 5.2 2.8 1.8 0.8

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NUMBER PE-2003016693

CURTIS L. BRUNGARD

**ENGINEER** 

MO # 2003016693

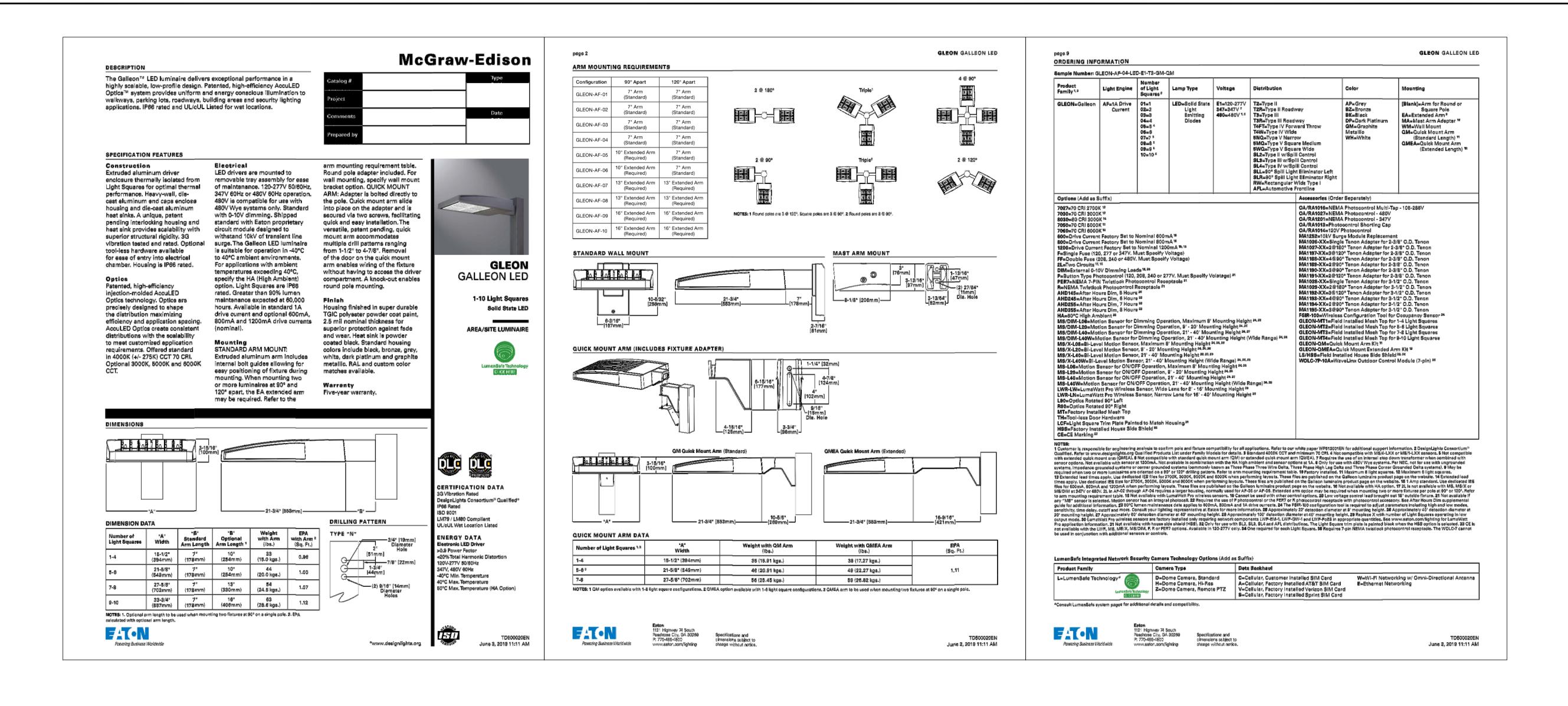
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DR

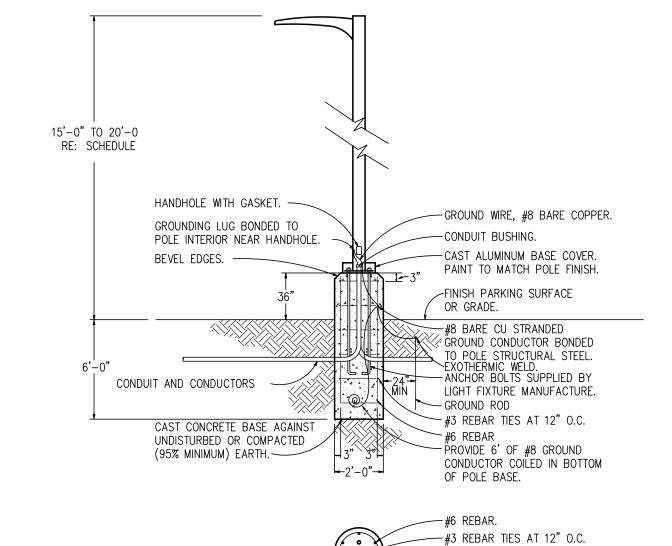
PRYOR V LOWENSTEIN I

AD

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\* OR PRIOR APPROVED EQUAL

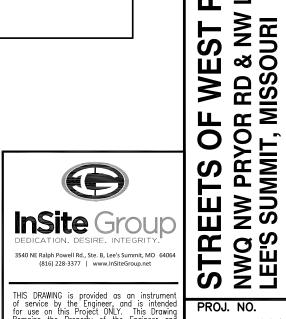




— ELECTRICAL CONDUIT.

— ANCHOR BOLTS BY LIGHT FIXTURE MANUFACTURE.

MANU MARK	MANUFACTURER	FIXTURE DESCRIPTION	MODEL NUMBER	MOUNTING	COLOR	LAMP		DRIVE CURRENT		WATTS	1	
	*					QTY	TYPE	CODE	(QUANTITY/TYPE)	VOLTS	(PER/POLE)	NOTES
P3	McGRAW-EDISON	DARK SKY COMPLIANT AREA LIGHT FIXTURE WITH DIRECT ARM MOUNT AT 90 DEGREES, 20FT ABOVE FINISHED GRADE, WITH AFTER HOURS DIMMING CONTROL AND INDIVIDUAL PHOTOCELL CONTROL.  17FT ALUMINUM POLE WITH VIBRATION DAMPER	FIXTURE: GLEON-AF-03-LED-E1-SL4-BZ-AHD355-P POLE: SSA4M15WCN1GV	POLE	4000K	1 PER POLE	LED	_	(1) 1000mA	240	166	1–2
P6	McGRAW-EDISON	DARK SKY COMPLIANT AREA LIGHT FIXTURE WITH DIRECT ARM MOUNT AT 90 DEGREES, 20FT ABOVE FINISHED GRADE, WITH AFTER HOURS DIMMING CONTROL AND INDIVIDUAL PHOTOCELL CONTROL. 17FT ALUMINUM POLE WITH VIBRATION DAMPER	FIXTURE: GLEON-AF-03-LED-E1-SL3-BZ-AHD355-P POLE: SSA4M15WCN1GV	POLE	4000K	1 PER POLE	LED	-	(1) 1000mA	240	166	1-2



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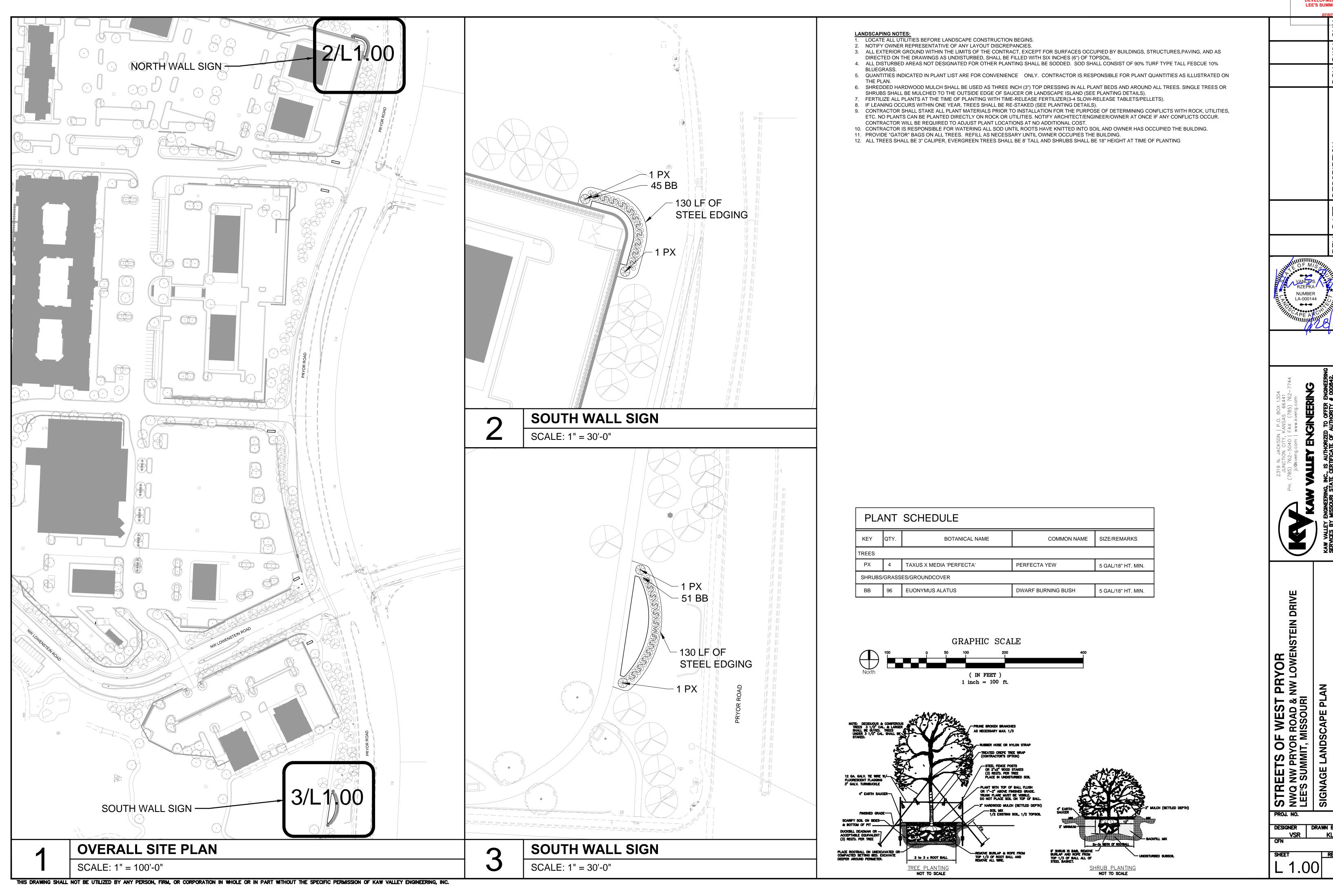
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PROJECT NUMBER
16-5419-3

SHEET

\$\sum\_{\text{16}} = 2

DESIGNER AWN



# RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

07/07/2020