

CONSTRUCTION PLANS FOR PRYOR ROAD SIGNAL IMPROVEMENTS & LANE WIDENING STREETS OF WEST PRYOR LEE'S SUMMIT, MISSOURI

INDEX TO SHEETS	
1	TITLE SHEET
2	TYPICAL SECTIONS & GENERAL CONSTRUCTION NOTES

¹ JULY 2019

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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 LOCATION OF THE PROJECT. 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 CLOSE AS REASONABLY PRACTICABLE TO THE LOCATION INDICATED. THE SURVEYOR IS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES BY EXCAVATION UNLESS OTHERWISE NOTED ON THIS SURVEY.

CAUTION — NOTICE TO CONTRACTOR

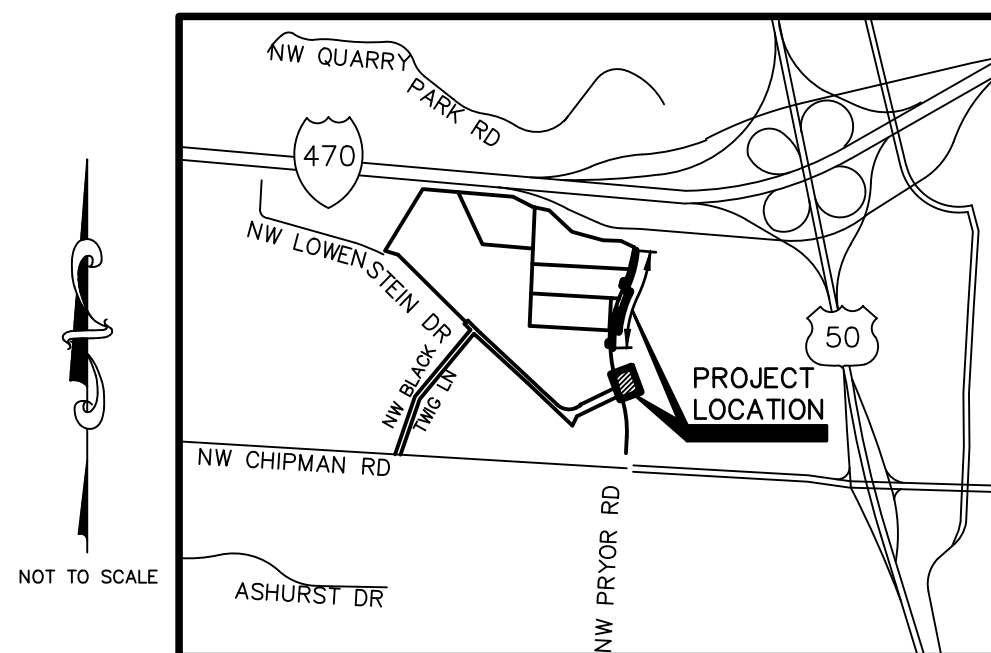
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SAFETY NOTICE TO CONTRACTOR

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



LOCATION MAP
CITY OF LEE'S SUMMIT, MISSOURI

APPROVED THIS _____ DAY OF _____.

OWNER: MATT PENNINGTON

APPROVED THIS _____ DAY OF _____, _____

CITY APPROVAL _____

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

DEVELOPER:
STREETS OF WEST PRYOR, LLC
7200 WEST 132ND STREET
OVERLAND PARK, KS 66213
AGENT: DAVID N. OLSON
email: daveolson@monarchpro.com

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

PREPARED BY:
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JUNCTION CITY, KS 66441
785-762-5040
CONTACT: LEON D OSBOURN
EMAIL: ldo@kvenq.com

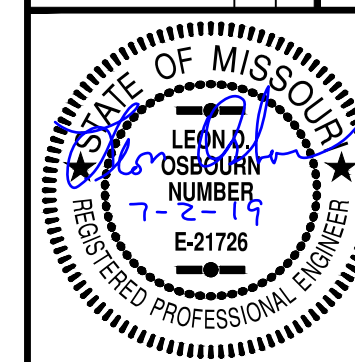
BENCHMARKS:

BM #1: CHISELED "SQUARE" ON TOP OF CURB POINT OF INTERSECTION OF WEST PARK PARKING LOT AT EAST DRIVE ENTRANCE. ELEV=984.97

BM #2: CHISELED "SQUARE" ON NORTHWEST CORNER AREA INLET 25'± EAST OF CURB LINE AND ON-LINE WITH SOUTH CURB OF LOWENSTEIN DRIVE AT 90° BEND IN ROAD. ELEV=979.04

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LEON D. OSBOURN
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MO # 021726

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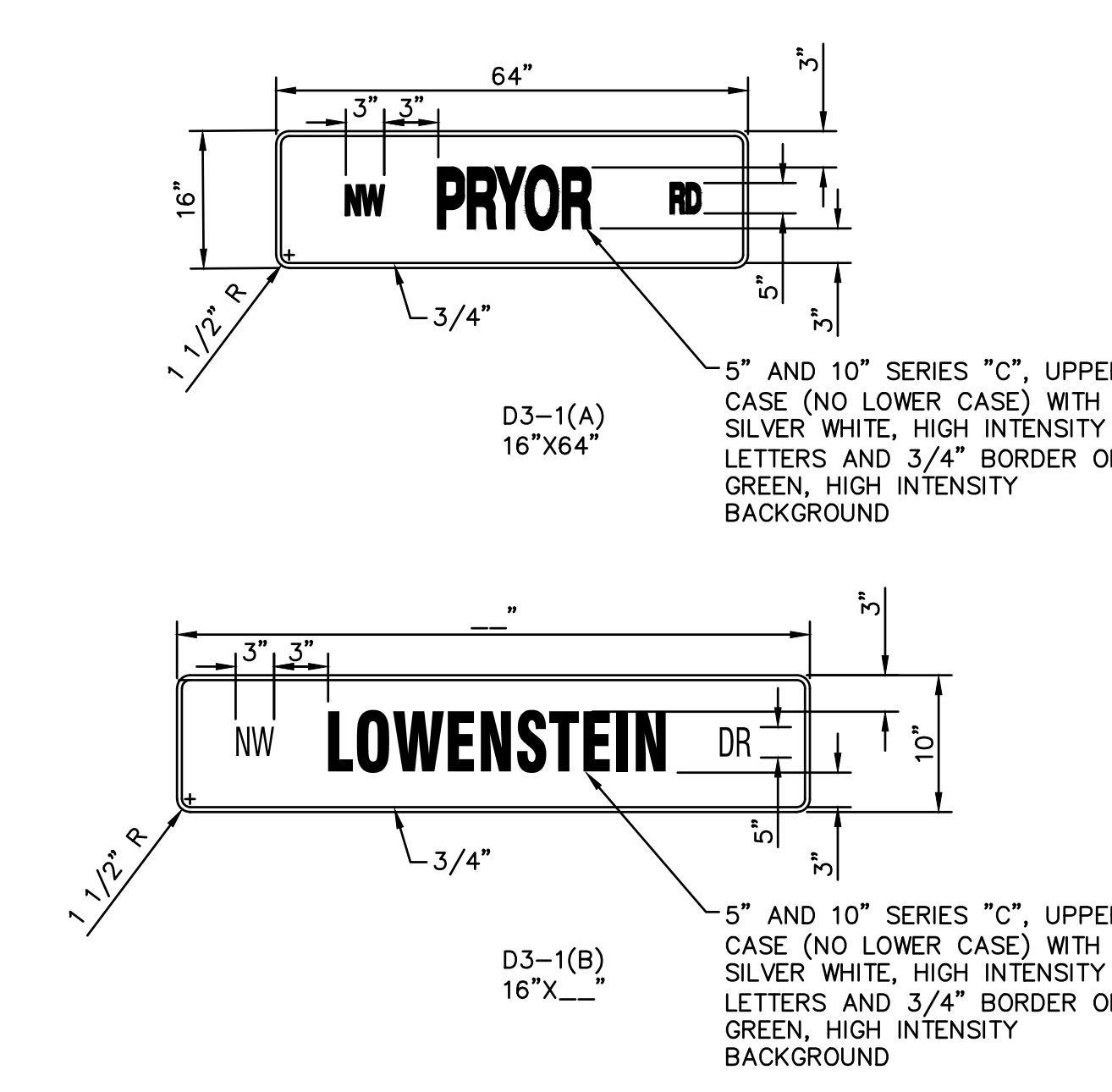
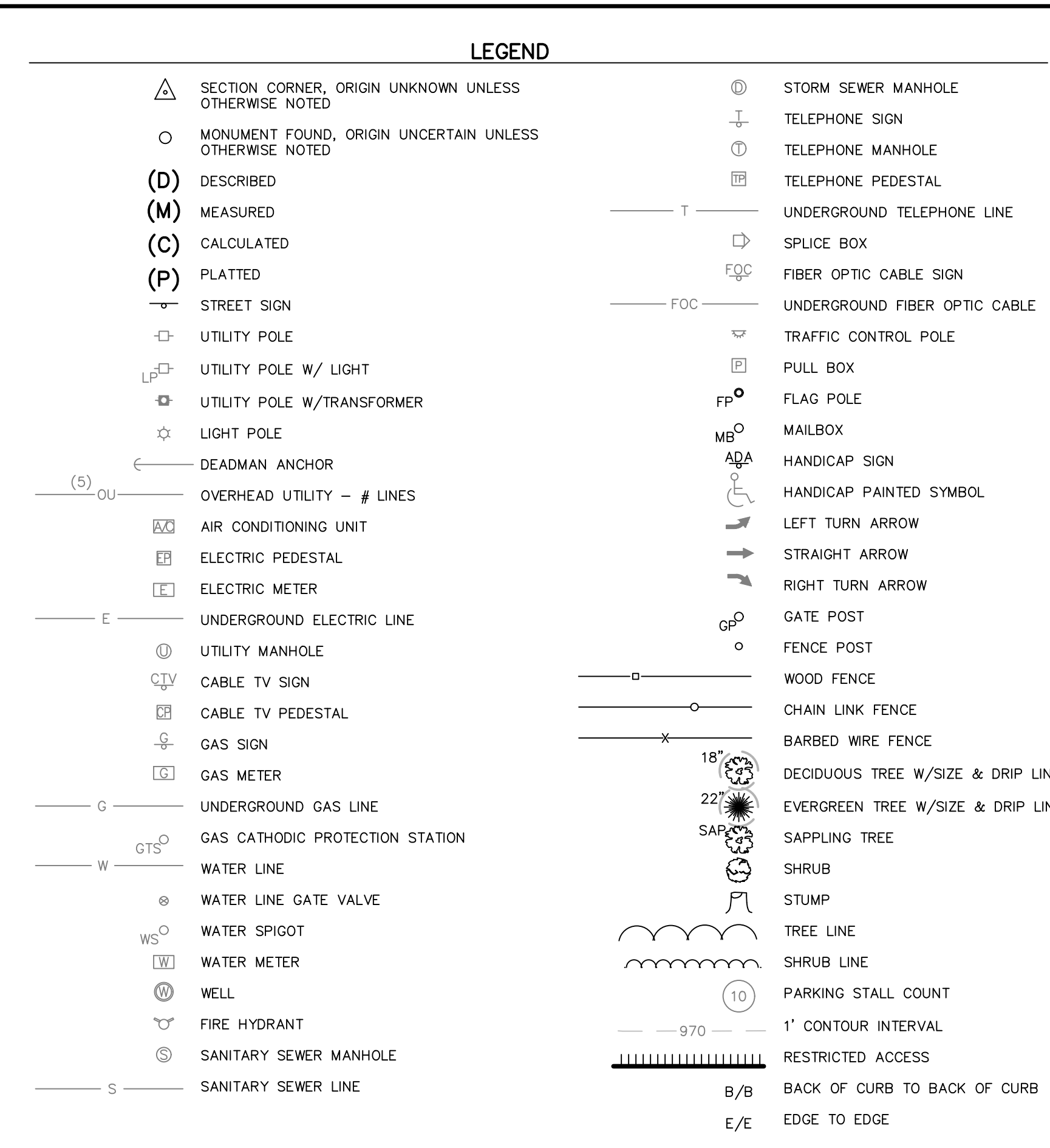
KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.

STREETS OF WEST PRYOR
NW/4 NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

**NW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING
ATTI E SHEET**

PROJ. NO.		A14_7067-1	
DESIGNER	LDO	DRAWN BY	JT/BKR

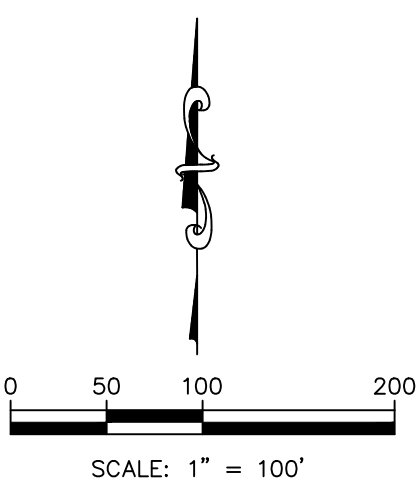
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SHEET	REV
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1. EXCESS EXCAVATION SHALL BE DEPOSITED IN AREAS AS DIRECTED BY THE OWNER.
2. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE EXISTING SURFACING ON STREETS NEED TO BE TRAVELED UPON BY EQUIPMENT 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 SEEDD WITHIN RIGHT-OF-WAY LIMITS, AND ON SLOPES OF EMBANKMENTS. AREAS SHALL BE SEEDD 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 CONSTRUCTION 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 SHALL GOVERN THE CONSTRUCTION OF ALL PUBLIC IMPROVEMENTS FOR THIS PROJECT.

STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI		PROJ. NO. A14-7067-1	
		DESIGNER LDO	DRAWN BY JT/BKR
CFN 7067-1SIG		REV 2	
SHEET 1		REV 1	

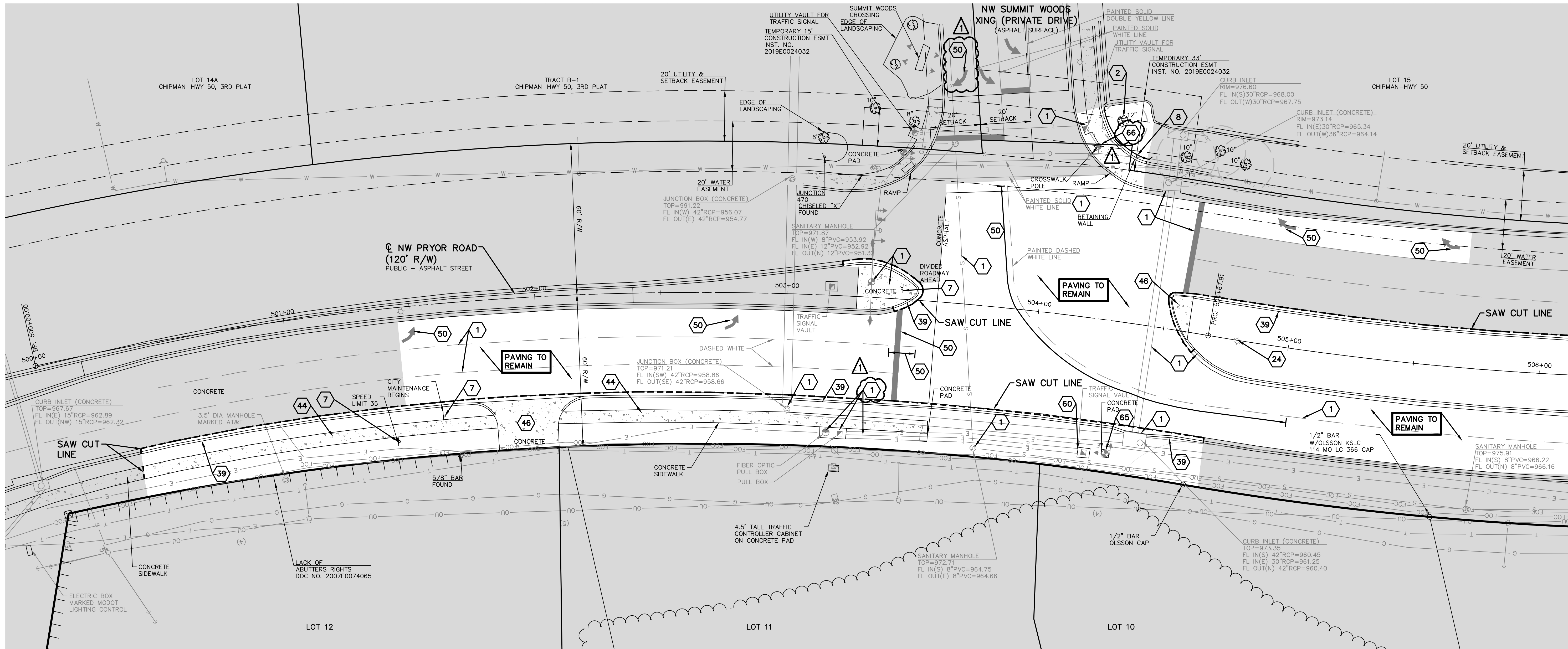


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NW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING GENERAL LAYOUT SHEET


PROJ. NO.	
A14_7067-1	
DESIGNER	DRAWN BY
LDO	JT/BKR
CFN	
7067-1SIG_GLS	
SHEET	REV
3	0



DEMOLITION NOTES:

- 1 TO REMAIN
- 2 REMOVE TREE (SEE PLANS)
- 3 TREES TO REMAIN
- 7 SIGN TO BE RELOCATED
- 8 PORTION OF RETAINING WALL TO BE REMOVED (SEE PLANS)
- 11 TO BE REMOVED BY ELECTRIC COMPANY
- 24 STREET LIGHT TO BE RELOCATED (SEE PLANS)
- 39 CONTRACTOR TO REMOVE (CURBS)
- 44 CONTRACTOR TO REMOVE (SIDEWALK)
- 46 CONTRACTOR TO REMOVE (PAVING)
- 50 CONTRACTOR TO SAND BLAST STRIPING (SEE PAVEMENT MARKING SHEETS)
- 65 TRAFFIC POLE TO BE RELOCATED. (SEE PLANS)
- 66 TRAFFIC POLE TO BE REMOVED AND RETURNED TO THE CITY OF LEES SUMMIT

LEGEND

-  NOT A PART OF DEMOLITION ACTIVITIES
 SAW CUT LIMITS

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

BENCHMARKS:

BM #1: CHISELED "SQUARE" ON TOP OF CURB P
OF INTERSECTION OF WEST PARK PARKING LOT A
EAST DRIVE ENTRANCE. ELEV=984.97

BM #2: CHISELED "SQUARE" ON NORTHWEST CORNER
AREA INLET, 25'± EAST OF CURB LINE AND ON-
LINE WITH SOUTH CURB OF LOWENSTEIN DRIVE AT 90°
BEND IN ROAD. ELEV=970.98

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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.

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL REMOVE ALL BUILDINGS, UTILITIES, PAVEMENT, FOUNDATIONS, FENCES, CURBS AND ALL OTHER STRUCTURES FROM WITHIN PROPERTY LINES EXCEPT AS DESIGNATED "TO REMAIN" OR "TO BE REMOVED BY OTHERS", IN ACCORDANCE WITH THE SPECIFICATIONS AND THE CITY OF LEE'S SUMMIT AND STATE REGULATIONS. SITE CONDITIONS SHOWN WERE AS OF MARCH 30, 2018.

2. ALL UTILITY PIPE LINES TO BE ABANDONED SHALL BE PLUGGED PER CITY AND STATE REGULATIONS.

3. DRIVES, PAVING AND OTHER STRUCTURES ON STREET OR HIGHWAY RIGHT-OF-WAY SHALL BE REMOVED AS NECESSARY TO CONSTRUCT IMPROVEMENTS SHOWN ON THESE PLANS. REMOVAL AND DISPOSAL SHALL BE IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

4. ALL PAVING WITHIN PROPERTY TO BE REMOVED AND DISPOSED OF IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

5. ALL HAZARDOUS ASBESTOS AND OTHER HAZARDOUS MATERIALS MUST BE IDENTIFIED AND REMOVED PRIOR TO ANY BUILDING DEMOLITION, IN STRICT CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

6. CONTRACTOR SHALL VERIFY THAT ALL UTILITIES TO EXISTING STRUCTURES HAVE BEEN DISCONNECTED PRIOR TO COMMENCING DEMOLITION.

7. EXISTING POWER LINES AND APPURTENANCES TO BE RELOCATED BY KANSAS CITY POWER & LIGHT.

8. TREE LINES AND INDIVIDUAL TREES SHOWN ARE BASED ON ORIGINAL SURVEY. INITIAL CLEARING AND GRUBBING HAS BEEN COMPLETED. CONTRACTOR SHALL REMOVE ANY ADDITIONAL TREES AND SHRUB IN AREAS INDICATED FOR GRADING AND DEMOLITION.

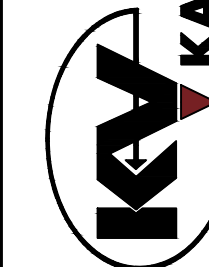
9. COORDINATE WITH KAW VALLEY ENGINEERING PRIOR TO REMOVAL OF SECTION MONUMENTS AND PROPERTY PINS. KAW VALLEY ENGINEERING WILL RESET NECESSARY MONUMENTS WITHIN THE DISTURBED AREAS FOLLOWING DEMOLITION. CARE SHALL BE TAKEN TO PRESERVE PROPERTY PINS ALONG THE OUTSIDE PERIMETER OF THE SITE.

10. CONTRACTOR SHALL OBTAIN DEMOLITION PERMITS FOR EACH INDIVIDUAL HOUSE WITHIN THE AREA SHOWN. ALL SERVICE LINE SHUT-OFFS, WELL PLUGGING, SEPTIC TANK REMOVALS AND OTHER UTILITY REMOVALS SHALL BE HANDLED IN ACCORDANCE WITH STATE AND CITY CODES.

11. KCP&L TRANSMISSION MAIN SHALL REMAIN IN PLACE DURING DEMOLITION. FOLLOW ALL KCP&L REQUIREMENTS CONCERNING WORK IN THEIR EASEMENT AND IN PROXIMITY TO THEIR LINES, INCLUDING PROTECTION OF POLES AND SAFE WORKING DISTANCES FROM LINES.

LEON D. OSBOURN
ENGINEER
MO # 021726

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JUNCTION CITY, KANSAS 66441
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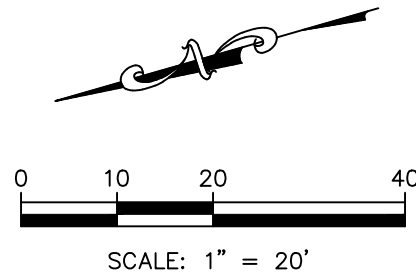
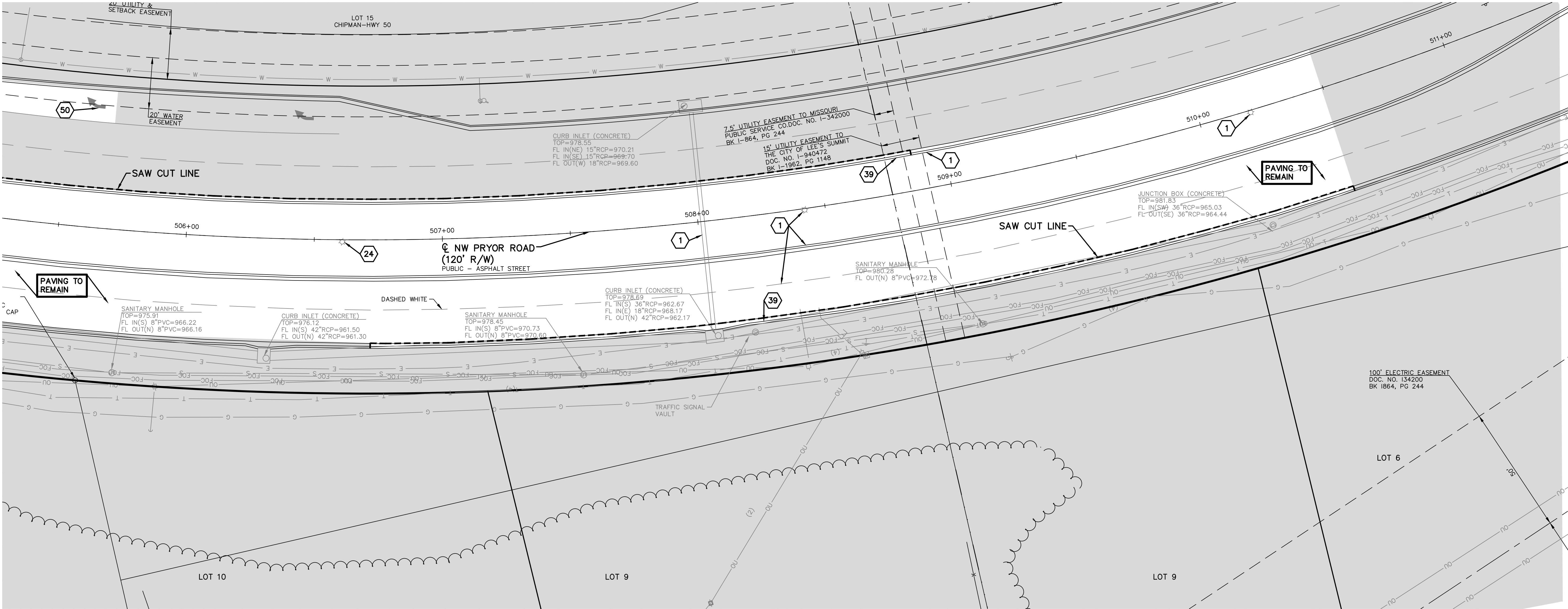


KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.

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

PNW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING DEMOLITION PLAN

PROJ. NO.		A14_7067-	
DESIGNER	LDO	DRAWN BY	JT/BK
CFN		7067-1SIG_DEMO	
SHEET		REV	
4		1	



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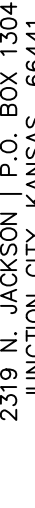
LEGEND

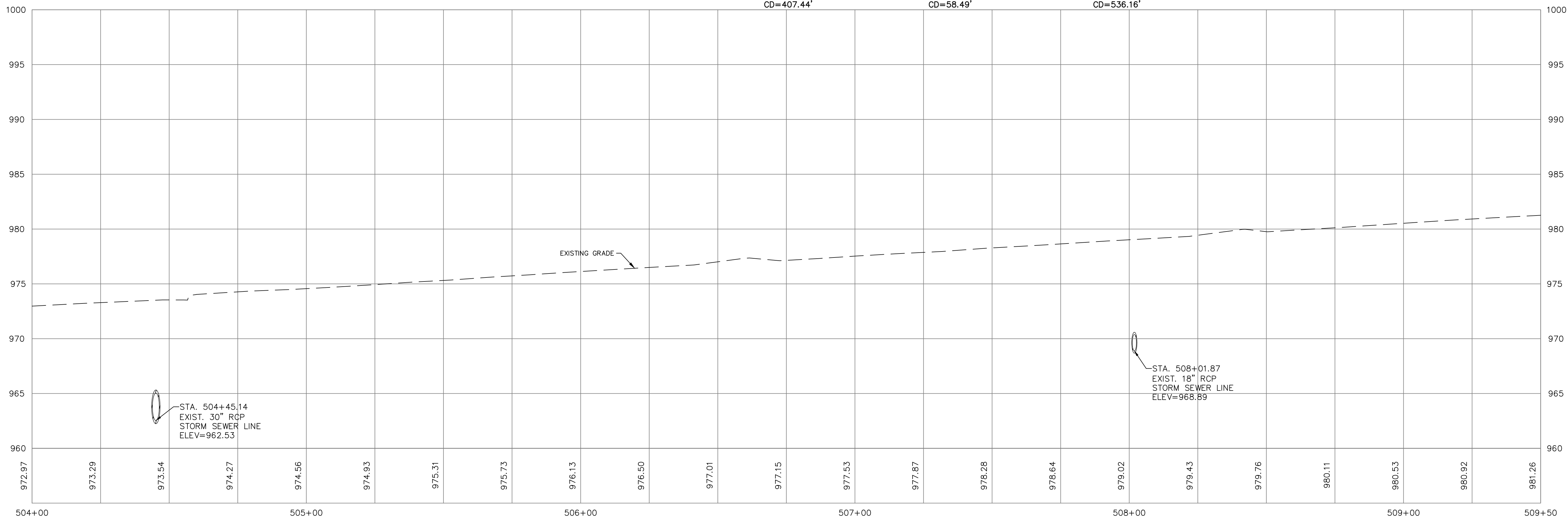
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- SAW CUT LIMITS

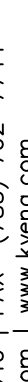

DATUM BENCHMARK:
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OF INTERSECTION OF WEST PARK PARKING LOT AT
EAST DRIVE ENTRANCE. (ELEV=984.97)

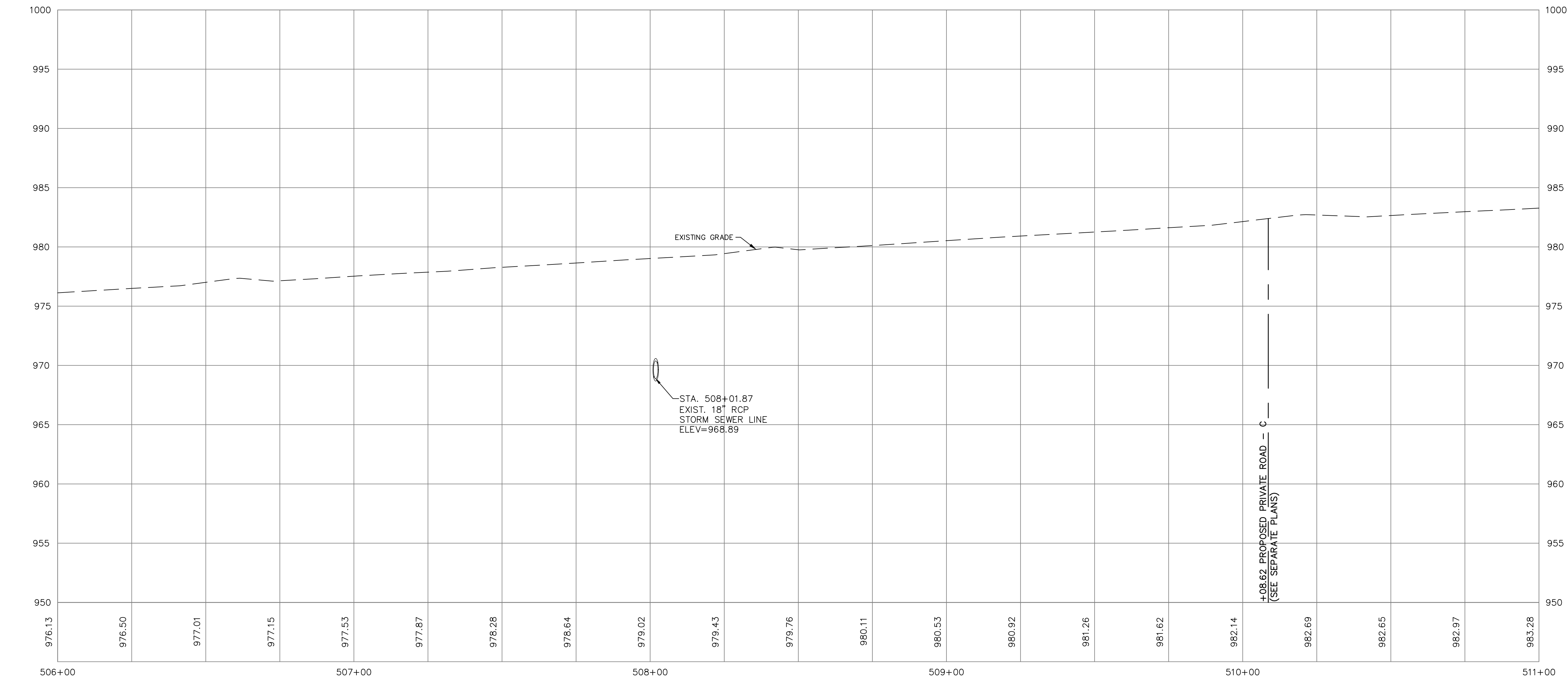
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AREA INLET, 25'± EAST OF CURB LINE AND ON-LINE
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STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI		PROJ. NO. A14-7067-1		DESIGNER LDO		DRAWN BY JT/BKR		REV		5		1	
		CFN	SHEET										
 KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19		2319 N. JACKSON P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH. (785) 762-5040 FAX (785) 762-7744 joe@kveeng.com www.kveeng.com		LEON D. OSBOURN ENGINEER MO # 021726		1 0 REV		7-2-19 5-23-19 DATE		REVISED PER CITY COMMENTS INITIAL ISSUE DESCRIPTION		LDO LDO JIT LDO JIT DSN DWN CHK	

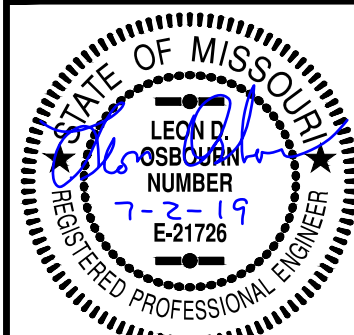
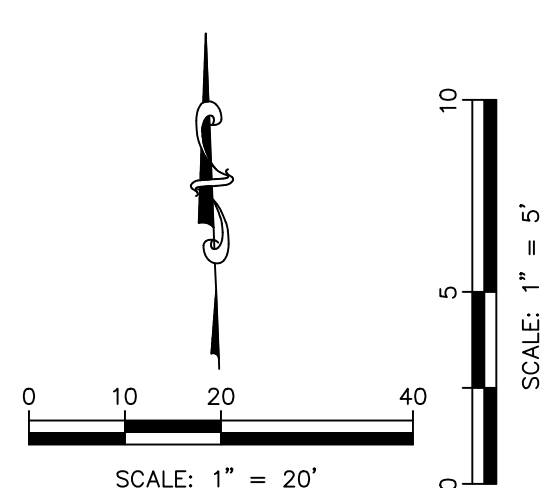
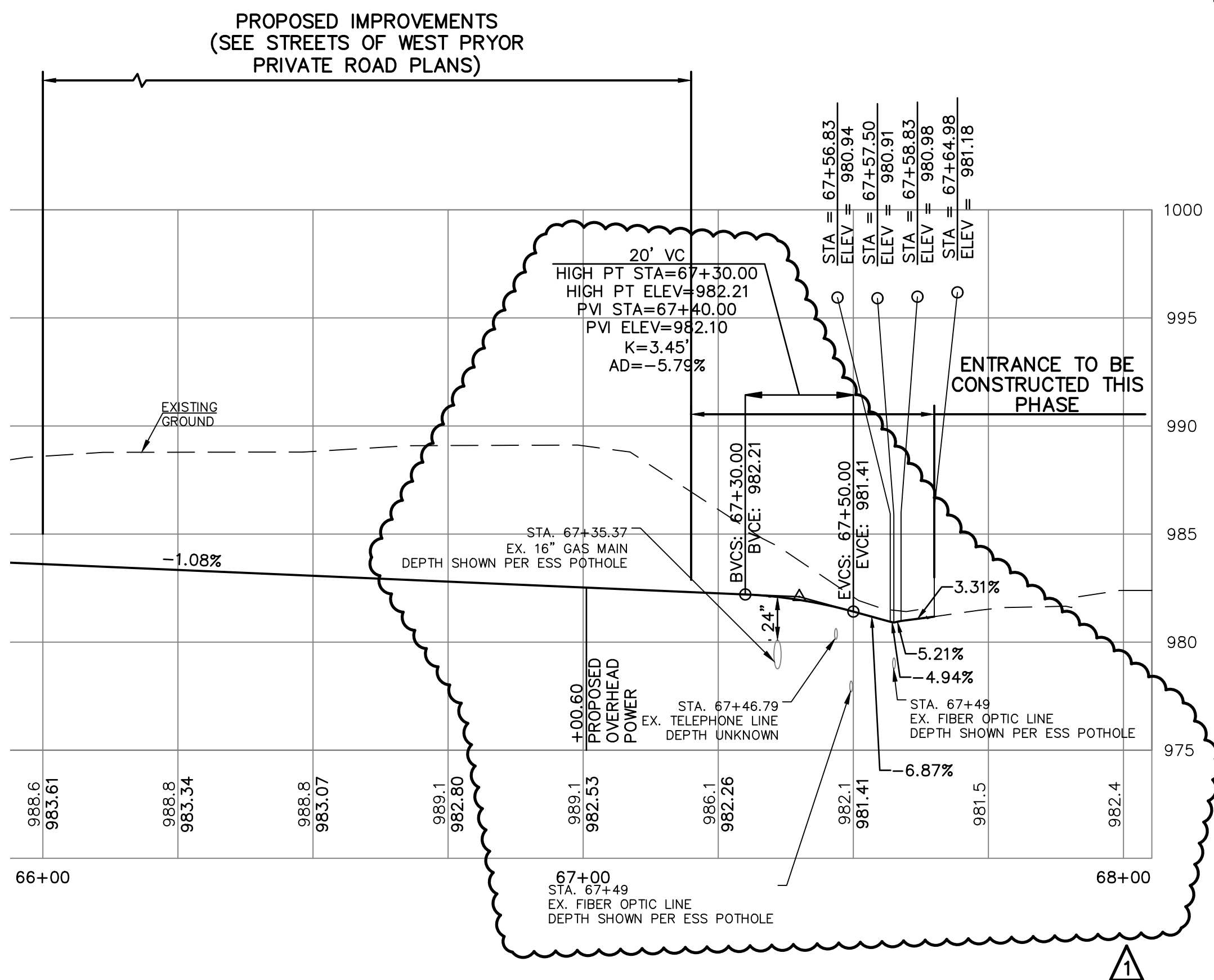
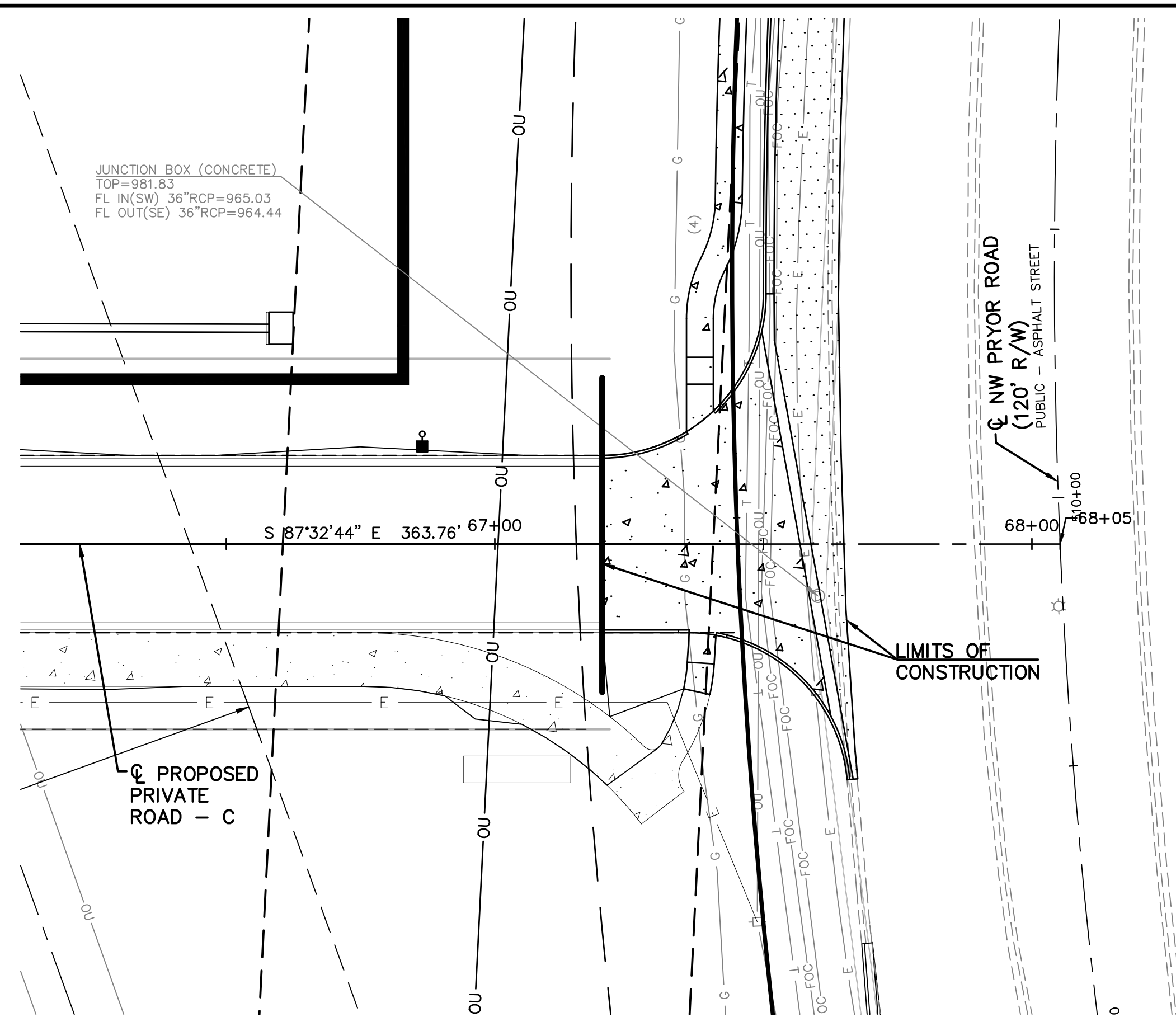


STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI		 KAW VALLEY ENGINEERING <small>KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000942. EXPIRES 12/31/19</small>		2319 N. JACKSON P.O. BOX 1304 JEFFERSON, MO 64501 TEL: (785) 765-7832 PH: (785) 702-5040 FAX: (785) 765-7832-7744 jed@kveg.com www.kveg.com		LEON D. OSBOURN ENGINEER MO # 021726							
		PROJ. NO. A14-7067-1		DESIGNER LDO		DRAWN BY JT/BKR		REV 1					
7067-1SIG_STPP		SHEET 7		CWN		NW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING NW PRYOR DRIVE WIDENING - PLAN & PROFILE		REV DATE DESCRIPTION 1 7-2-19 REVISED PER CITY COMMENTS 0 5-23-19 INITIAL ISSUE					

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STREETS OF WEST PRYOR		PROJ. NO.	
NWQ NW PRYOR RD & NW LOWENSTEIN DR		A14-7067-1	
LEE'S SUMMIT, MISSOURI		DESIGNER	DRAWN BY
		LDO	JT/BKR
CFN			
SHEET	7067-1SIG_STTP		
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NW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING			
NW PRYOR DRIVE WIDENING - PLAN & PROFILE			



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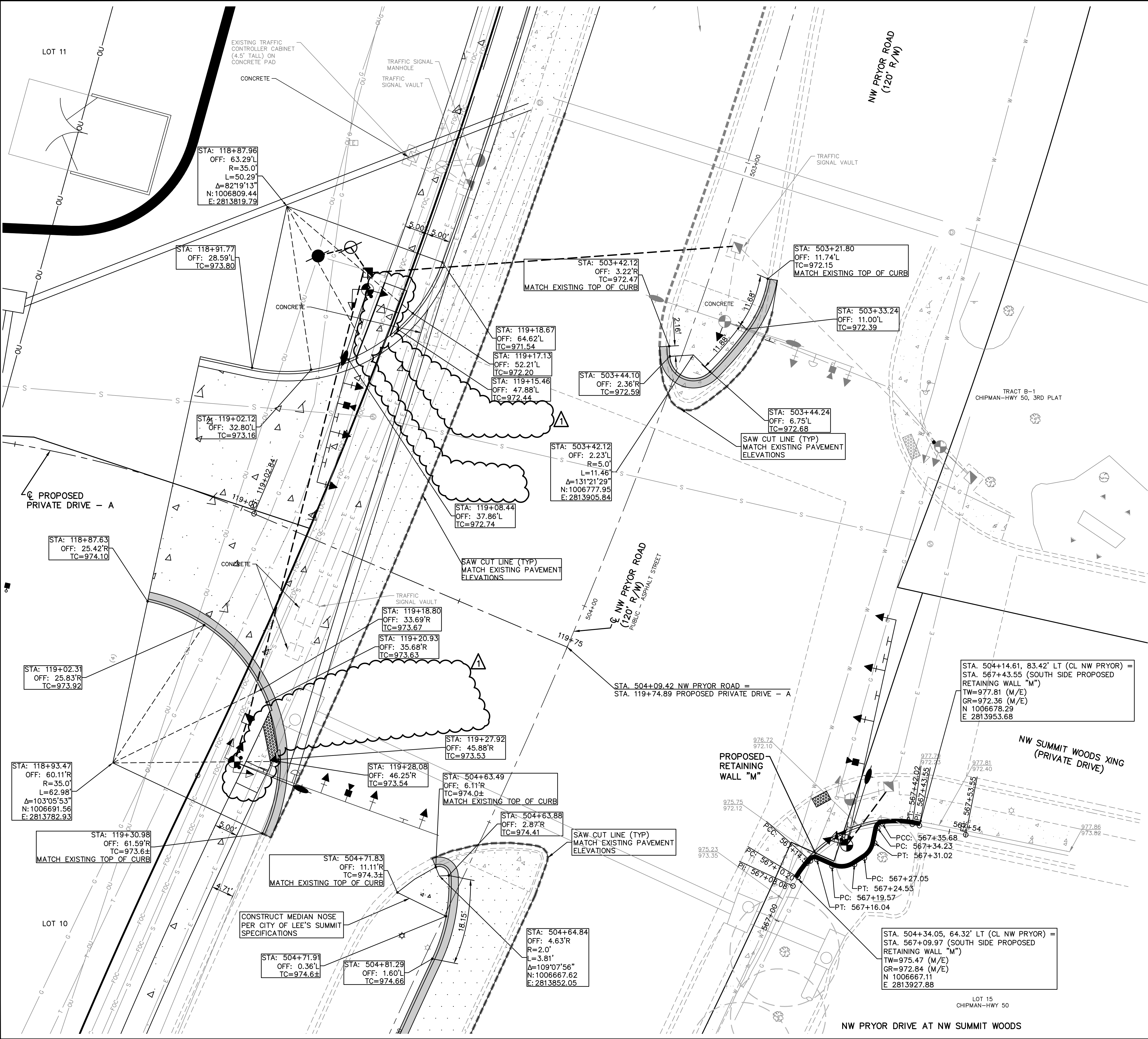


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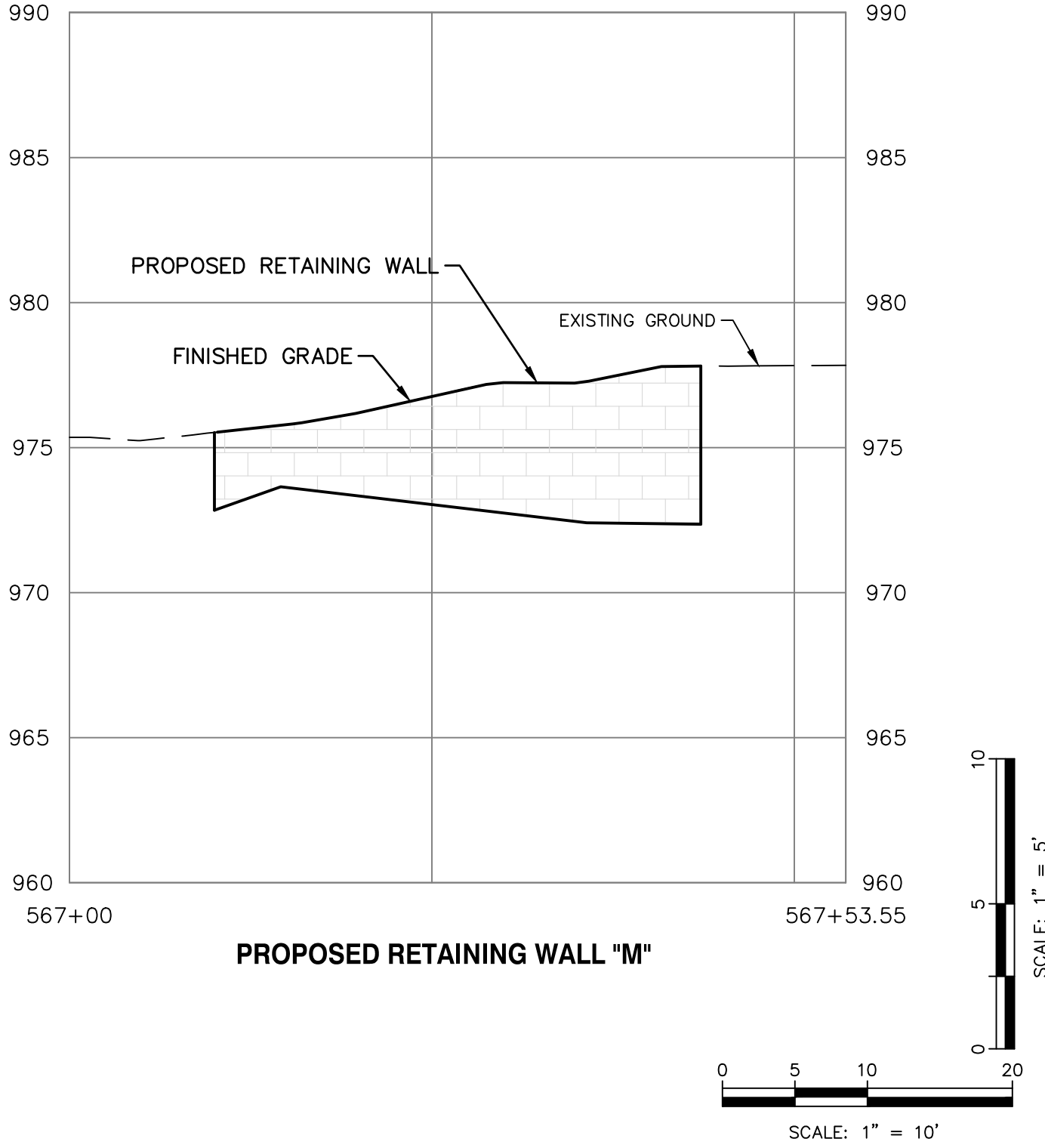
ST PRYOR
1, NW LOWENSTEIN DR
OURI

11 NW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING
12 DRIVE AT PROPOSED PRIVATE ROAD - A - P I A N & PROEII F

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DESIGNER	LDO	DRAWN BY	JT/BK
CFN			
7067-1SIG_DRIVEPP			
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FOR CLARITY, UTILITY EASEMENTS
ARE NOT SHOWN



1	7-2-19	REVISED PER CITY COMMENTS	LDO	JT	LDO
0	5-23-19	INITIAL ISSUE	LDO	JT	LDO
			DSN	DWN	CHK

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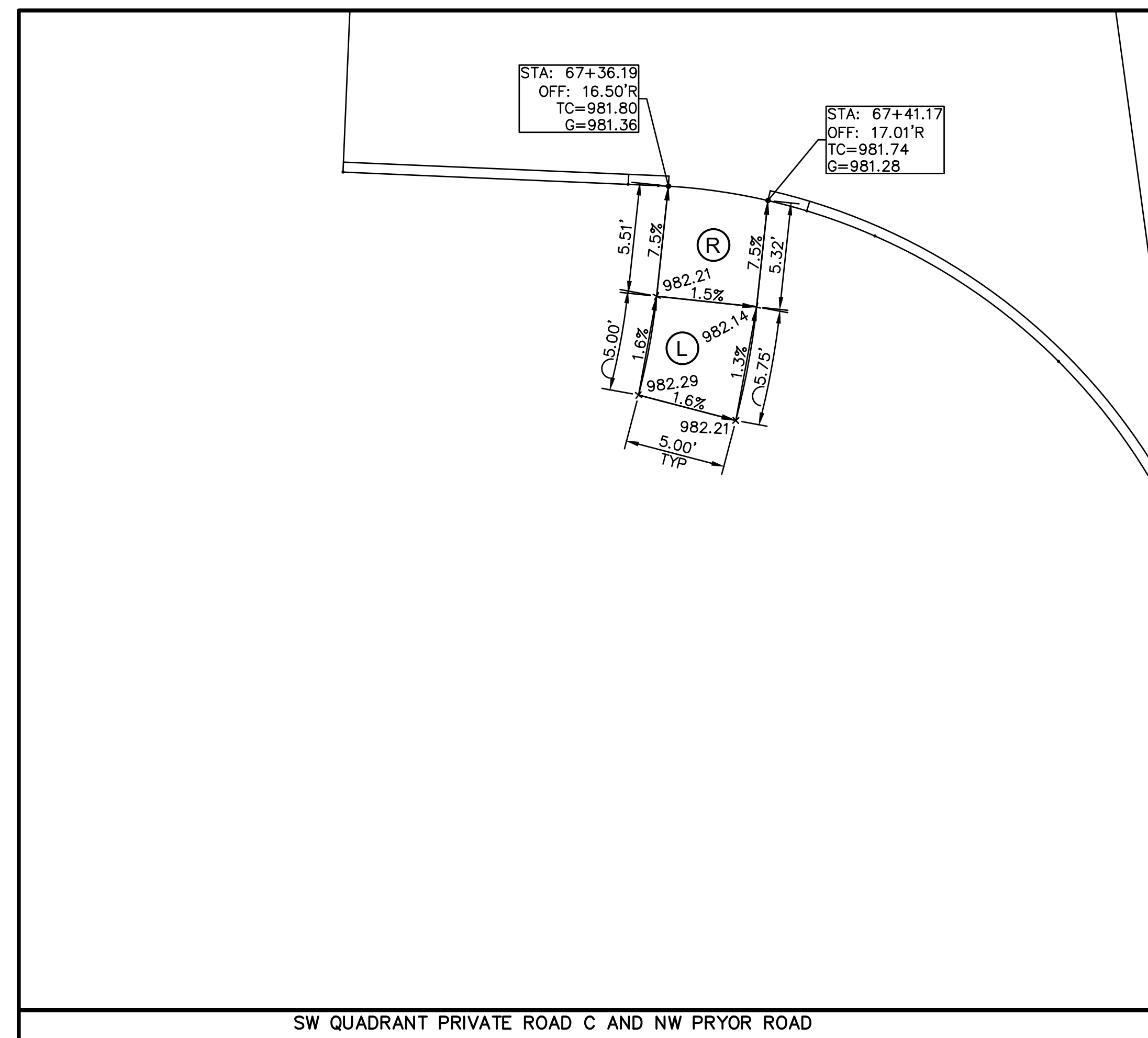
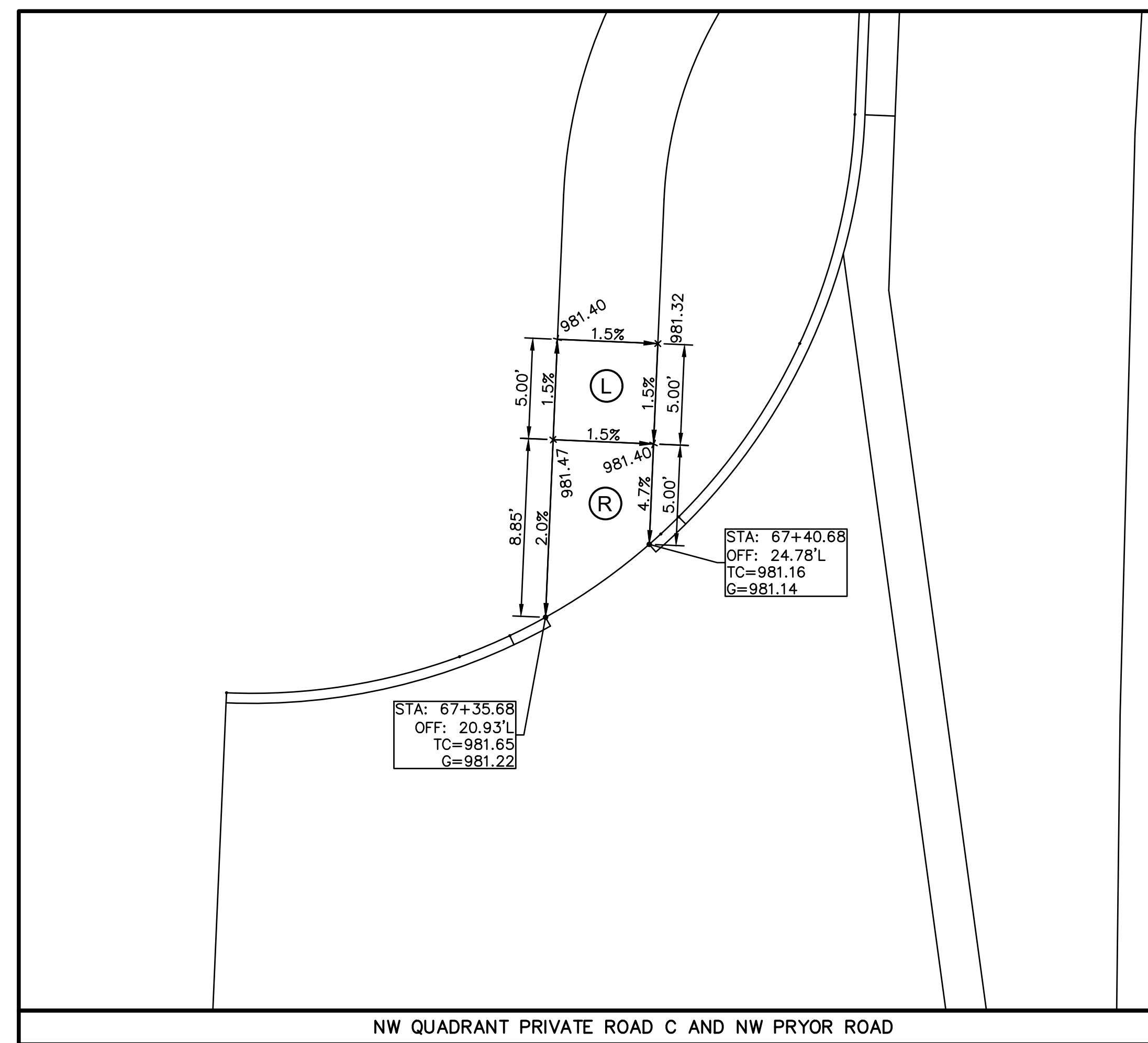
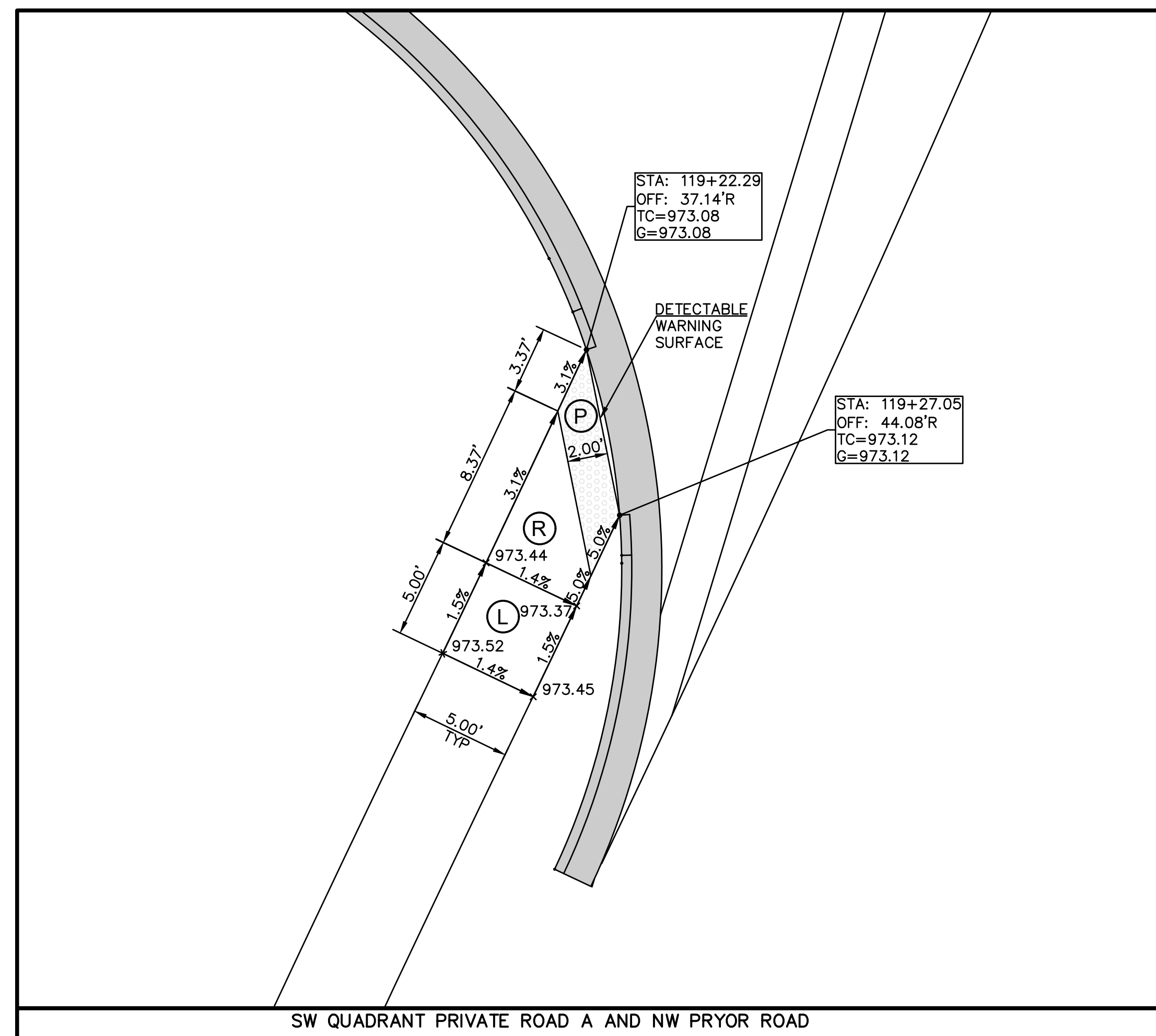
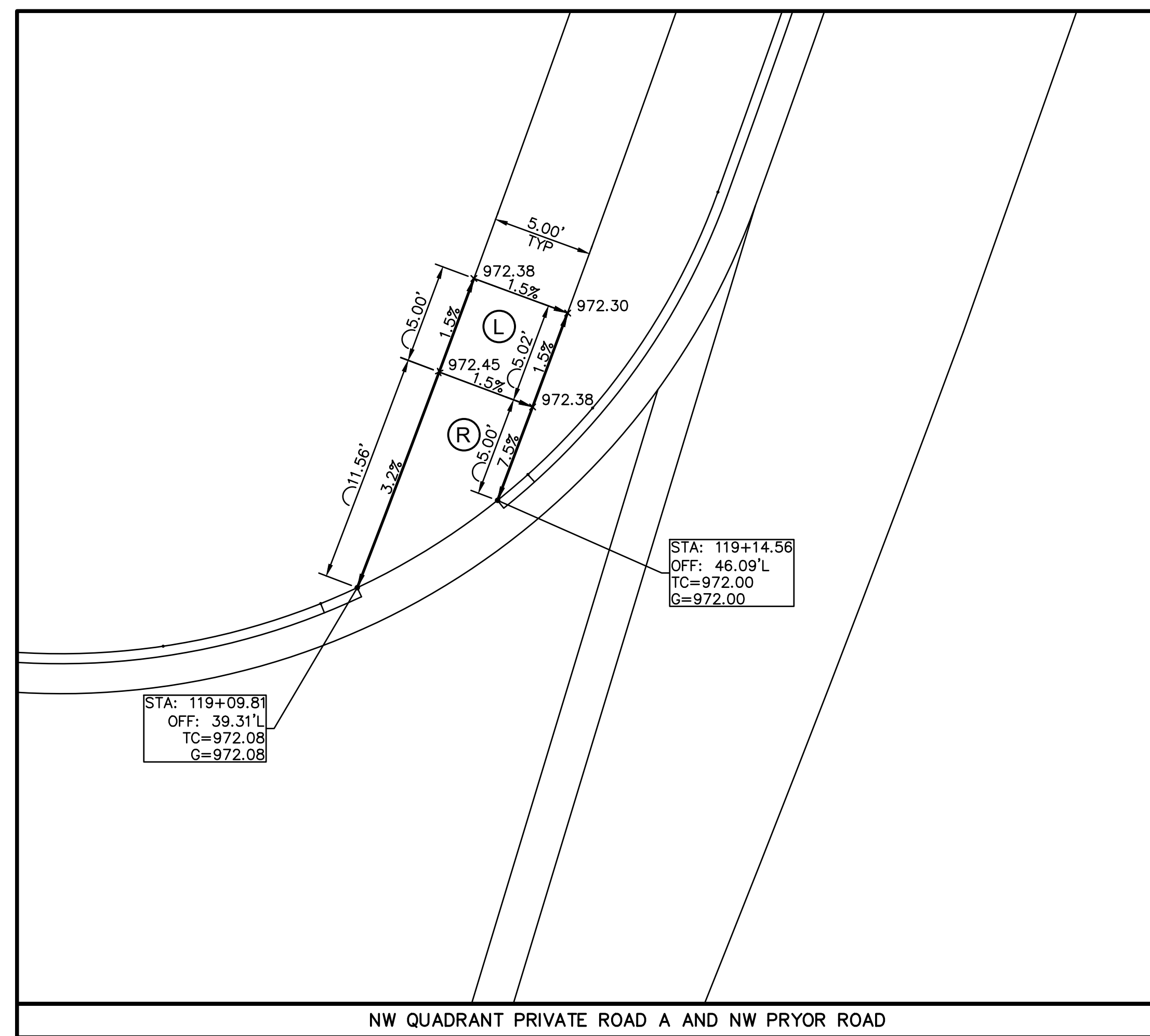
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KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN THE STATE OF MISSOURI. EXPIRES 12/31/19.

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

NW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING
GEOMETRIC LAYOUT - NW PRYOR ROAD AT NW SUMMIT WOODS

PROJ. NO. **A14-7067-1**
DESIGNER **LDO** DRAWN BY **JT/BKR**
CFN **7067-1SIG GEOM**
SHEET **10** REV **1**





LEGEND

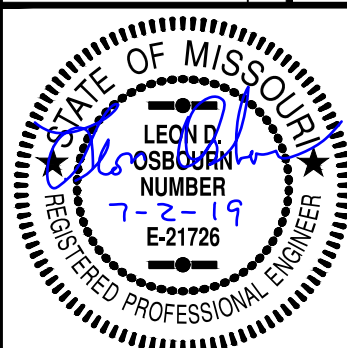
- | | |
|-----|--|
| | DRY CURB |
| TC | TOP OF CURB ELEVATION |
| G | GUTTER ELEVATION |
| (R) | RAMP (7.5% RUNNING SLOPE,
1.5% MAXIMUM CROSS SLOPE) |
| (L) | LANDING (1.5% MAX IN ALL DIRECTIONS) |
| (P) | PAN |

CONSTRUCTION NOTES:

1. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH LEE'S SUMMIT STANDARD DETAIL GEN-3A. CONSTRUCTION SHALL COMPLY WITH GENERAL NOTES.



Know what's **below**.
Call before you dig.



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EXPIRES 12/31/19

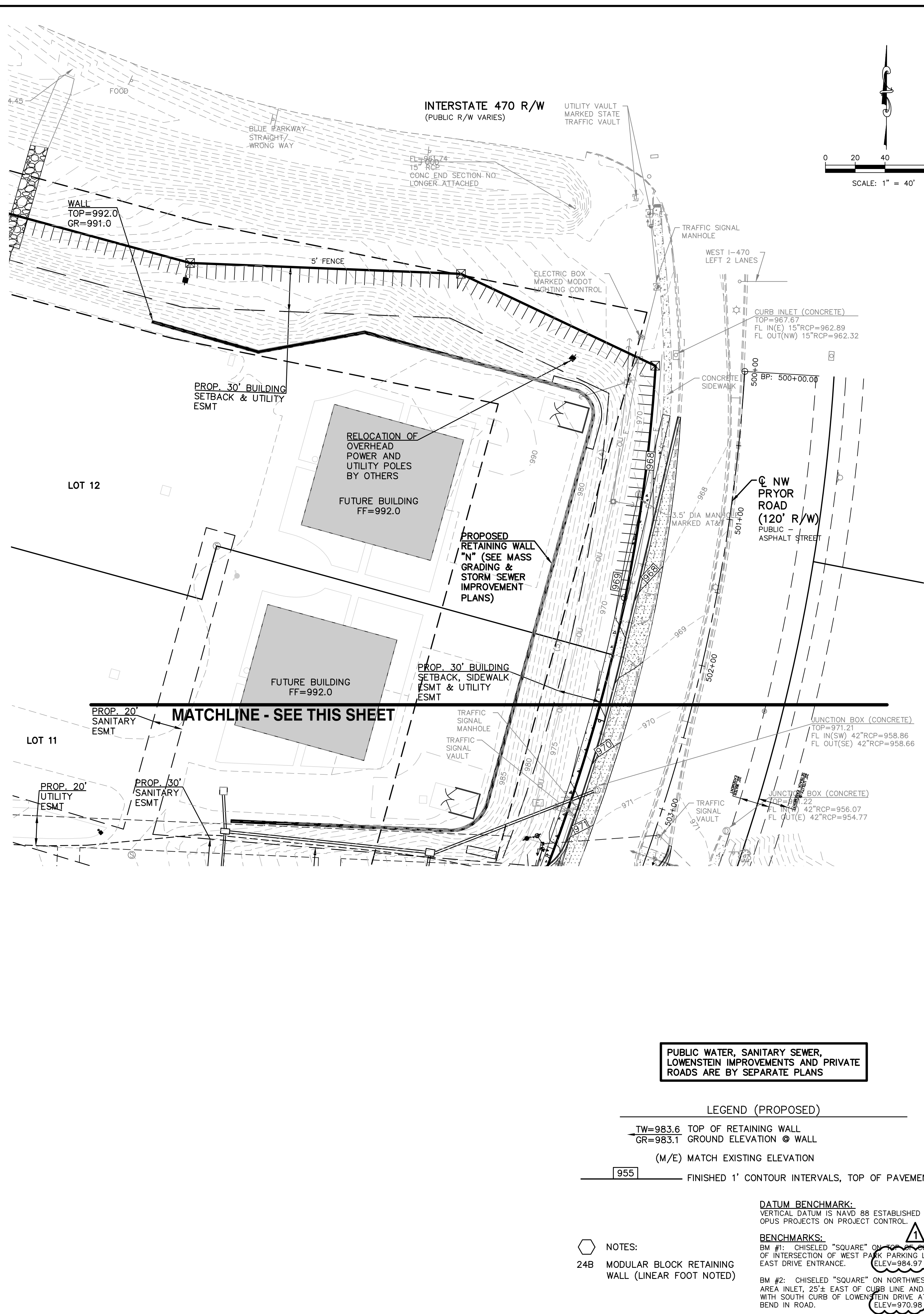
STREETS OF WEST PRYOR
NW/4 NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

NEW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING ADA RAMPS

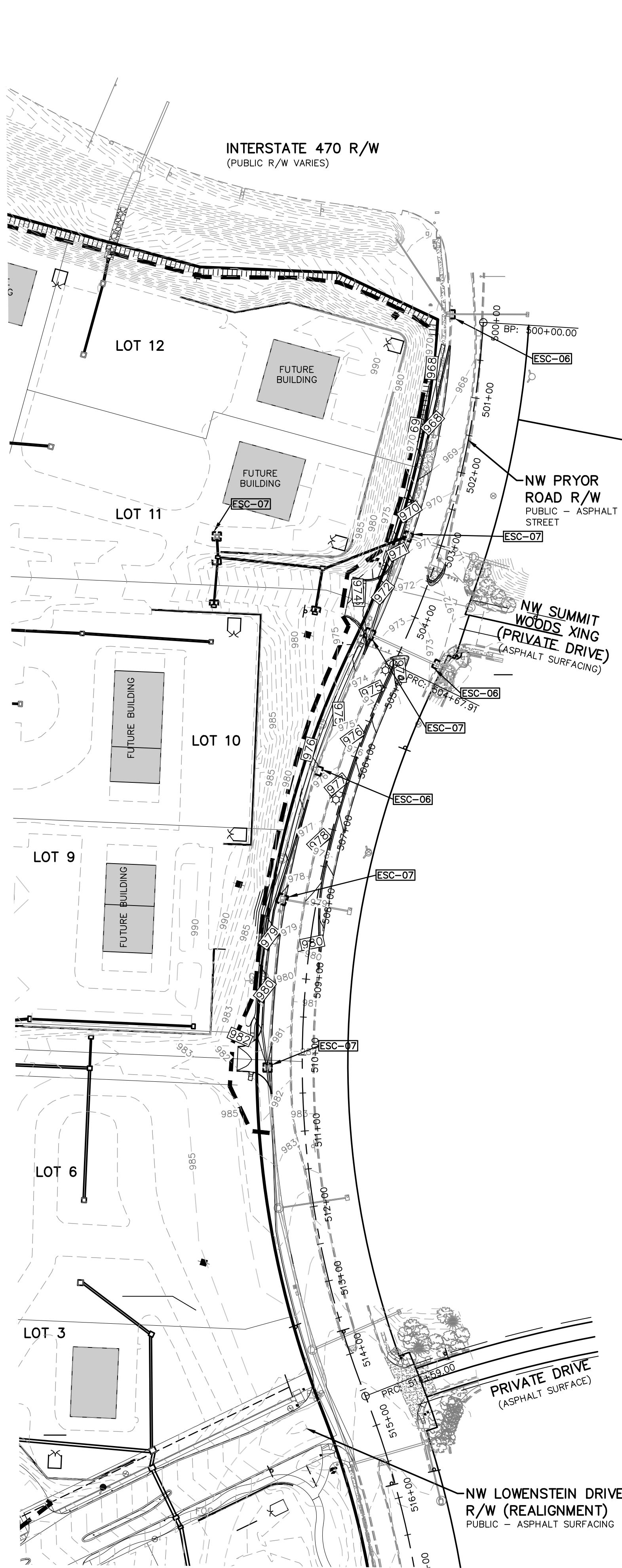
PROJ. NO.		A14_7067-1	
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ADDED SHEET





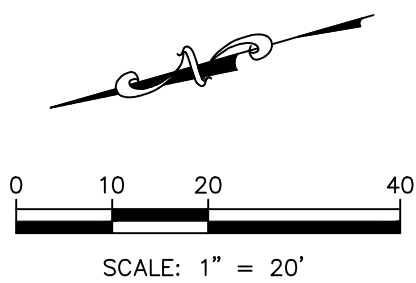
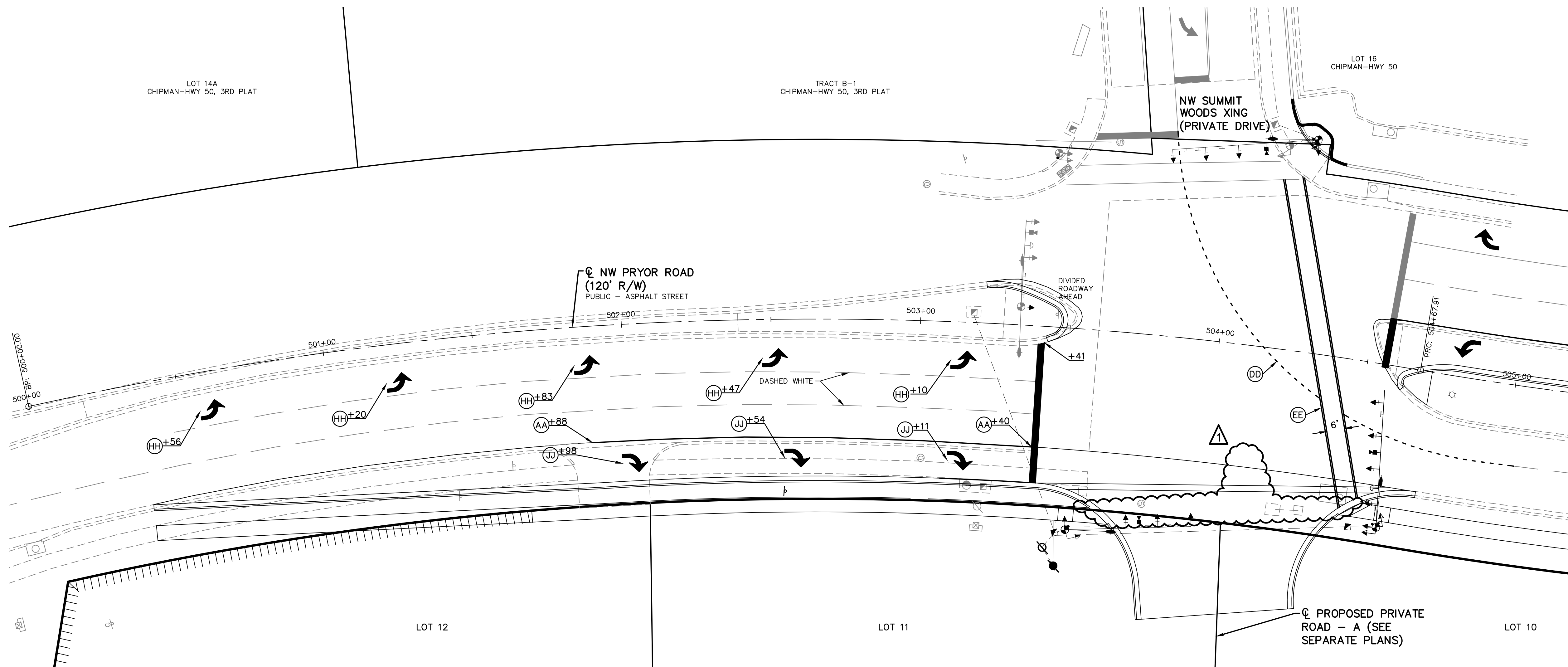
STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI		PROJ. NO. A14 7067-1	
		DESIGNER LDO	DRAWN BY JT/BKR
CFN 7067-1SIG_GP	SHEET <div style="text-align: center; font-size: 2em;">12</div>		
NW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING GRADING PLAN		REV <div style="text-align: center; font-size: 2em;">1</div>	DSN DWN
		CHK CHK	



GENERAL NOTES:

1. PROPERTY LINE IS LIMITS OF CONSTRUCTION EXCEPT AS SHOWN.
2. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS PRIOR TO BEGINNING EARTHWORK OPERATIONS.
3. THE CONTRACTOR SHALL MAINTAIN ALL SILT CONTROL MEASURES DURING CONSTRUCTION.
4. ALL SILT SHALL REMAIN ON SITE AND SURROUNDING STREETS SHALL BE KEPT CLEAR OF ALL MUD AND DEBRIS.
5. A SEDIMENTATION BARRIER IS TO BE INSTALLED AS SHOWN.
6. ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE SEDIMENTATION BARRIERS MAINTAINED AS NEEDED TO PREVENT SEDIMENTATION BYPASS OF THE BARRIER.
7. SLOPES ARE TO BE LEFT IN A ROUGH CONDITION DURING GRADING.
8. CURB INLET SEDIMENTATION BARRIERS ARE TO BE INSTALLED AROUND INLETS AND WEIRS WHERE SEDIMENTATION IS A CONCERN. INLET BARRIERS SHALL BE EITHER BLOCK AND GRAVEL, OR SECURED STRAW BALES, OR SILT FENCE.
9. SEDIMENT IS TO BE REMOVED FROM STORM WATER DRAINAGE SYSTEMS.
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.
13. TEMPORARY SEDIMENT FENCE TO REMAIN UNTIL ADEQUATE VEGETATION IS ESTABLISHED.
14. MUD AND DEBRIS SHALL BE CLEANED UP AT THE CONCLUSION OF EACH WORKING DAY, OR AFTER EACH RAINFALL IF SILT IS PRESENT.
15. INSPECTION, MAINTENANCE AND REPAIR OF EROSION CONTROL DEVICES SHALL BE ON GOING THROUGHOUT THE LIFE OF BUILDING CONSTRUCTION TO KEEP THE DEVICES IN OPERABLE CONDITION AT ALL TIMES. ADDITIONAL MEASURES SHALL BE INSTALLED AS REQUIRED BY ACTUAL FIELD CONDITIONS AND/OR GOVERNING INSPECTION AGENCIES.
16. INSTALL CONSTRUCTION ENTRANCE AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING THE SITE AND AS SHOWN ON PLANS.

17. AT COMPLETION OF SITE GRADING AND OTHER RELATED CONSTRUCTION ACTIVITIES, ALL DISTURBED AREAS WITHIN THE PROJECT SITE SHALL BE SEEDED, SODDED, OR LANDSCAPED AS SHOWN ON THE LANDSCAPE PLAN WITHIN 14 DAYS.
18. TOPSOIL IS TO BE PLACED IN AREAS UNSUITABLE FOR VEGETATIVE GROWTH.
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.
23. ALL FUELING FACILITIES PRESENT ON SITE SHALL ADHERE TO APPLICABLE FEDERAL AND STATE REQUIREMENTS CONCERNING UNDERGROUND STORAGE, ABOVE GROUND STORAGE AND DISPENSERS, INCLUDING SPILL PREVENTION, CONTROL AND COUNTER MEASURES.
24. RIGHT OF WAY TO BE STABILIZED AS REQUIRED BY APWA SECTION 2400.
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.



NOTE:

1. PAVEMENT MARKING SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE CURRENT CITY OF LEE'S SUMMIT PAVEMENT MARKING STANDARDS.
2. ALL DIMENSIONS REFERENCING DOUBLE YELLOW LINES REFERS TO THE CENTER OF THE SPACE BETWEEN THE TWO DOUBLE YELLOW LINES.
3. CONTRACTOR TO GRIND OFF CONFLICTING PAVEMENT MARKING.

LIST OF PAVEMENT MARKING	
MARK	ITEM
AA	4" SOLID WHITE LINE (HIGH BUILD PAINT)
DD	6" DASHED WHITE EXTENSION LINE (THERMOPLASTIC)
EE	6" SOLID WHITE CROSS-WALK LINE (THERMOPLASTIC)
GG	24" STOP BAR (THERMOPLASTIC)
HH	TURN ARROW WHITE (LEFT) (THERMOPLASTIC)
JJ	TURN ARROW WHITE (RIGHT) (THERMOPLASTIC)

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

NW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING
NW PRYOR ROAD PAVEMENT MARKING PLAN

PROJ. NO. A14_7067-1	
DESIGNER LDO	DRAWN BY JT/BKR
CFN 7067-1SIG_PMP	
SHEET 14	REV 1



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EXPIRES 12/31/19

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LEON D. OSBOURN
ENGINEER
MO # 021726



REV	DATE	DESCRIPTION
1	7-2-19	REVISED PER CITY COMMENTS
0	5-23-19	INITIAL ISSUE

	LDO	JT	LDO
	LDO	JT	LDO
	DSN	DWN	CHK

GENERAL NOTES:

1. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE PLANS (APPROVED BY THE CITY OF LEE'S SUMMIT) AND ONE (1) COPY OF THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES.

2. CONSTRUCTION OF THE IMPROVEMENTS SHOWN OR IMPLIED BY THIS SET OF DRAWINGS SHALL NOT BE INITIATED OR ANY PART THEREOF UNDERTAKEN UNTIL THE DIRECTOR OF PUBLIC WORKS OR HIS AGENT IS NOTIFIED OF SUCH INTENT, AND ALL REQUIRED AND PROPERLY EXECUTED BONDS AND CONTRACT AGREEMENTS ARE RECEIVED AND APPROVED BY THE CITY.

3. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE PUBLIC WORKS DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI, IN CURRENT USE. SPECIFICALLY, BUT NOT EXCLUSIVE TO: TRAFFIC SIGNAL SPECIFICATION: SECTION 2900. TRAFFIC SIGNAL STANDARD DRAWINGS: TS-1 THROUGH TS-10.

4. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.

5. RIGHT-OF-WAY LIMITS SHOULD BE CROSS CHECKED BY THE CONTRACTOR AND APPROVED BY THE FIELD INSPECTOR BEFORE UNDERTAKING ANY EXCAVATIONS AT THE SITE.

6. THE CONTRACTOR SHALL STAKE THE LOCATION OF ALL POLE BASES, PULL BOXES, AND CONTROLLER CABINET BASE, THEN PROVIDE THE CITY ONE WEEK NOTICE PRIOR TO THE START OF CONSTRUCTION, AND SUBSEQUENT CONSTRUCTION ACTIVITIES, FOR INSPECTION AND APPROVAL. THE CONTRACTOR SHALL PROVIDE A WORK SCHEDULE, CONTACT NAMES, AND PHONE NUMBERS.

7. ALL LOCATIONS INDICATED IN DRAWINGS, INCLUDING CONDUIT RUNS ARE SUBJECT TO ADJUSTMENT TO CLEAR OBSTRUCTIONS AND TO MEET SITE CONDITIONS, IF ANY BY THE CITY.

8. EXISTENCE AND LOCATION OF ANY UNDERGROUND OR OVERHEAD FACILITIES SHOWN ON THESE DRAWINGS OR REFERENCE TO ANY SOIL CONDITIONS, IF MADE, ARE APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL SITE CONDITIONS AND TO LOCATE ALL UTILITIES, INCLUDING DEPTH, BEFORE STARTING CONSTRUCTION SO THAT ANY ADJUSTMENTS TO DESIGN CAN BE MADE PRIOR TO POLE ORDERING OR FABRICATION. IN ADDITION, THE CONTRACTOR SHALL AVOID DISRUPTION OF SERVICES PROVIDED BY THE UTILITIES AND SHALL INSURE THAT PROPER CLEARANCES (OVERHEAD AND UNDERGROUND) ARE MAINTAINED FOR THE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES.

9. THE CONTRACTOR SHALL COORDINATE WITH THE CITY TRAFFIC ENGINEER FOR ANY NECESSARY CHANGES TO THE TRAFFIC SIGNALS RESULTING FROM EXISTING UTILITIES OR OTHER CONSTRUCTION ISSUES.

10. ANY EQUIPMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

11. SIGNAL EQUIPMENT SHALL NOT FORM AN OBSTRUCTION TO THE MOVEMENT OF PEDESTRIAN AND WHEELCHAIR TRAFFIC AND SHALL BE ADA ACCESSIBLE. WHERE SIDEWALKS ARE PRESENT, A MINIMUM CLEAR WIDTH OF 48 INCHES SHALL BE AVAILABLE FOR PEDESTRIAN AND WHEELCHAIR MOVEMENT. PULL BOXES SHALL NOT BE INSTALLED ON WHEELCHAIR RAMPS.

12. CONDUITS TO BE PLACED OUTSIDE OF PAVED AREAS SHALL BE TRENCHED IN PLACE. IF THE PROJECT INCLUDES ROADWAY IMPROVEMENTS, THE CONDUIT SHALL BE TRENCHED AFTER THE ROADWAY ROUGH GRADE IS ESTABLISHED AND PRIOR TO ANY FINAL ROADWAY PAVING, CURB & GUTTER, MEDIAN OR SIDEWALK SECTIONS ARE PLACED. ALL COMPACTION AND BACKFILL SHALL MEET CITY OF LEE'S SUMMIT REQUIREMENTS. AT THE OPTION OF THE CONTRACTOR, CONDUITS MAY BE BORED OUTSIDE PAVED AREAS, BUT THERE WILL BE NO ADJUSTMENT TO THE UNIT PRICES FOR CONDUIT INSTALLATION AND ANY CHANGE IN COST WOULD BE THE CONTRACTOR'S RESPONSIBILITY. ANY CONDUIT BORE OUTSIDE THE PAVED AREAS SHALL BE DONE AFTER ROADWAY IMPROVEMENTS ARE COMPLETE. CONDUITS TO BE PLACED WITHIN THE LIMITS OF PAVEMENT SHALL BE BORED UNLESS OTHERWISE AUTHORIZED BY THE CITY TRAFFIC ENGINEER. IF THE PROJECT INCLUDES ROADWAY IMPROVEMENTS, THE CONDUIT SHALL BE BORED PRIOR TO ANY FINAL ROADWAY PAVING. POTHOLING FOR UTILITIES ON ROAD BORES AFTER FINAL PAVING WILL NOT BE ALLOWED.

13. THE TRAFFIC SIGNAL CONTROLLER, CABINET AND RELATED EQUIPMENT, AS SPECIFIED FOR THIS PROJECT, SHALL BE DELIVERED TO THE CITY FOR TESTING PRIOR TO INSTALLATION. ALL SIGNAL TIMINGS WILL BE PROVIDED BY THE CITY TRAFFIC ENGINEER. THE CONTRACTOR SHALL COORDINATE MATERIAL DELIVERY AND PICK-UP WITH THE PUBLIC WORKS OPERATIONS DEPARTMENT (969-1870) AT LEAST 48 HOURS PRIOR TO TRANSPORTATION. THE CONTRACTOR ASSUMES ALL DAMAGE LIABILITY AND SHOULD INSPECT ALL MATERIALS BEFORE AND AFTER TRANSPORTATION OF EQUIPMENT.

14. THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL POWER REQUIREMENTS AND CONNECTION ACTIVITIES WITH THE UTILITY COMPANY, INCLUDING LOCATION OF THE METER, CIRCUITRY AND CONNECTION REQUIREMENTS, AND POWER UP THE COMPLETE SYSTEM.

15. ALL DISTURBED SURFACES SHALL BE MADE GOOD TO MATCH EXISTING AT THE CONTRACTOR'S EXPENSE.

16. CONTRACTOR SHALL MAINTAIN AT ALL TIMES ACCESS FOR EMERGENCY VEHICLES AND RESIDENTS ALONG THE ENTIRE PROJECT.

17. SUBSTANTIAL COMPLETION OF THE TRAFFIC SIGNALS SHALL BE DEFINED AS ALL COMPONENTS OF THE TRAFFIC SIGNAL OPERATED FULLY AND SATISFACTORILY WITH RED, YELLOW, AND GREEN CYCLES. SUBSTANTIAL COMPLETION SHALL ALLOW FOR TESTING OF THE SIGNALS, INCLUDING A FLASH PERIOD, PRIOR TO SIGNALS OPERATING WITH CYCLES.

18. FINAL ACCEPTANCE OF TRAFFIC SIGNALS SHALL BE DEFINED AS FINAL WRITTEN APPROVAL AND ACCEPTANCE BY THE CITY, INCLUDING COMPLETION OR CORRECTIONS OF ALL PUNCH LIST ITEMS AND THE TRAFFIC SIGNALS FULLY OPERATIONAL FOR A TIME PERIOD OF FIFTEEN (15) DAYS, WITHOUT ANY PROBLEM, AS NOTED IN THE SPECIFICATIONS. AS-BUILT PLANS SHALL BE SUBMITTED PRIOR TO FINAL ACCEPTANCE BY THE CITY.

19. THE CONTRACTOR SHALL VERIFY AND/OR COORDINATE WITH THE VARIOUS SERVICE PROVIDERS ON THE EXACT LOCATIONS OF METERS, CONNECTION POINTS AND OTHER SPECIFIC PROJECT REQUIREMENTS. THE PROPOSED SERVICE LINE LOCATIONS THAT ARE SHOWN ARE CONCEPTUAL AND ARE NOT WARRANTED.

PROJECT SPECIFIC NOTES:

1. THE CITY SHALL SUPPLY THE TRAFFIC SIGNAL CONTROLLER, CABINET, SIGNAL POLES WITH MAST ARMS AND POWER SUPPLY ASSEMBLY, AND THE CONTRACTOR SHALL INSTALL THE EQUIPMENT. CONTRACTOR SHALL COORDINATE WITH THE PUBLIC WORKS OPERATIONS DEPARTMENT (816-969-1870) FOR PICK-UP OF EQUIPMENT AT LEAST 48 HOURS PRIOR TO TRANSPORTATION. THE CONTRACTOR ASSUMES ALL DAMAGE LIABILITY AND SHOULD INSPECT ALL MATERIALS BEFORE AND AFTER TRANSPORTATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPLYING THE SIGNAL PEDESTAL POLES.

2. THE VIDEO DETECTION SYSTEM SHALL BE AN IN SYNC ADAPTIVE TRAFFIC CONTROL SYSTEM SUPPLIED BY RHYTHM ENGINEERING, 12351 W 96TH TERRACE, SUITE 107, LENEXA, KANSAS 66215, PHONE (913)227-0603. MATERIALS SUPPLIED BY RHYTHM ENGINEERING SHALL CONSIST OF AN IN SYNC PROCESSOR, VIDEO CAMERAS, TRANSFORMER, RG CABLE, DETECTOR CARDS AND CABLES, SITE EQUIPMENT PANELS, MONITOR, KEYBOARD AND CAMERA MOUNTING HARDWARE.

3. CABLES FOR THE VIDEO DETECTION SYSTEM SHALL BE ONE CONTINUOUS 3c--#14 CABLE AND ONE CONTINUOUS CATEGORY 5E+ CABLE (SHIELDED OUTDOOR RATED) BETWEEN THE CONTROLLER AND EACH CAMERA. THE 3c--#14 CABLE SHALL MEET REQUIREMENTS OF IMSA 20-1. CABLES ARE INCLUDED IN THE LUMP SUM PRICE FOR THE VIDEO DETECTION SYSTEM. NO ADDITIONAL PAYMENTS WILL BE MADE.

CONSTRUCTION SEQUENCING:

1. CONTRACTOR TO OBTAIN AND FOLLOW TEMPORARY TRAFFIC CONTROL PERMIT (TTCP) CONDITION REQUIREMENTS.

2. CONTRACTOR TO SUBMIT FOR APPROVAL BY CITY OF LEE'S SUMMIT TRAFFIC ENGINEER A DETAILED TRAFFIC SEQUENCING PHASING PLAN.

3. CONTRACTOR TO MAINTAIN EXISTING SIGNAL OPERATIONS UNTIL NEW SYSTEM, HAS BEEN TESTED AND OPERATIONAL.

4. PER TTCP, CONTRACTOR TO INSTALL TRAFFIC CONTROL, CHANNELIZATION DEVICES AND TEMPORARY PAVEMENT MARKING AROUND WORK ZONE.

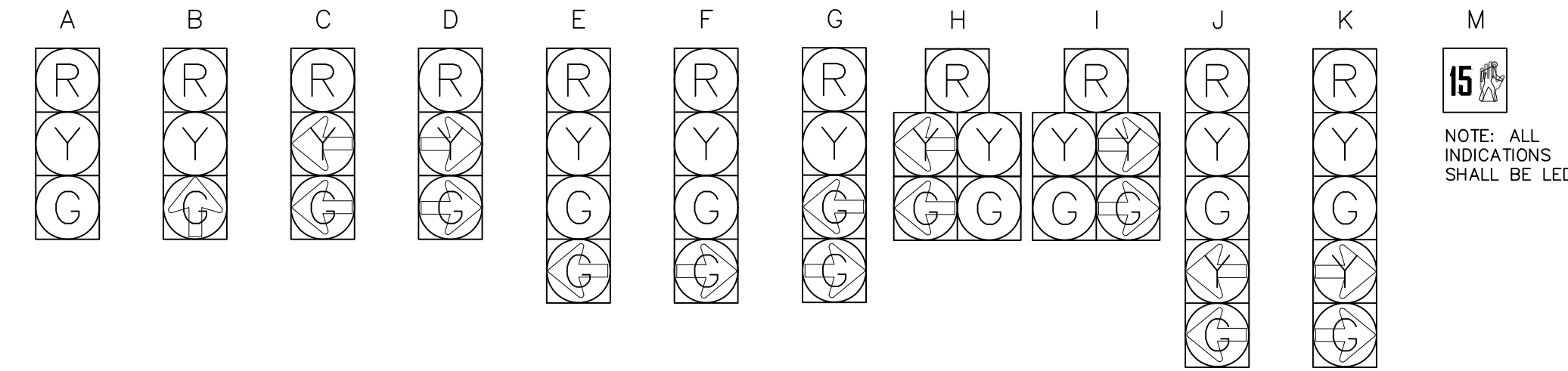
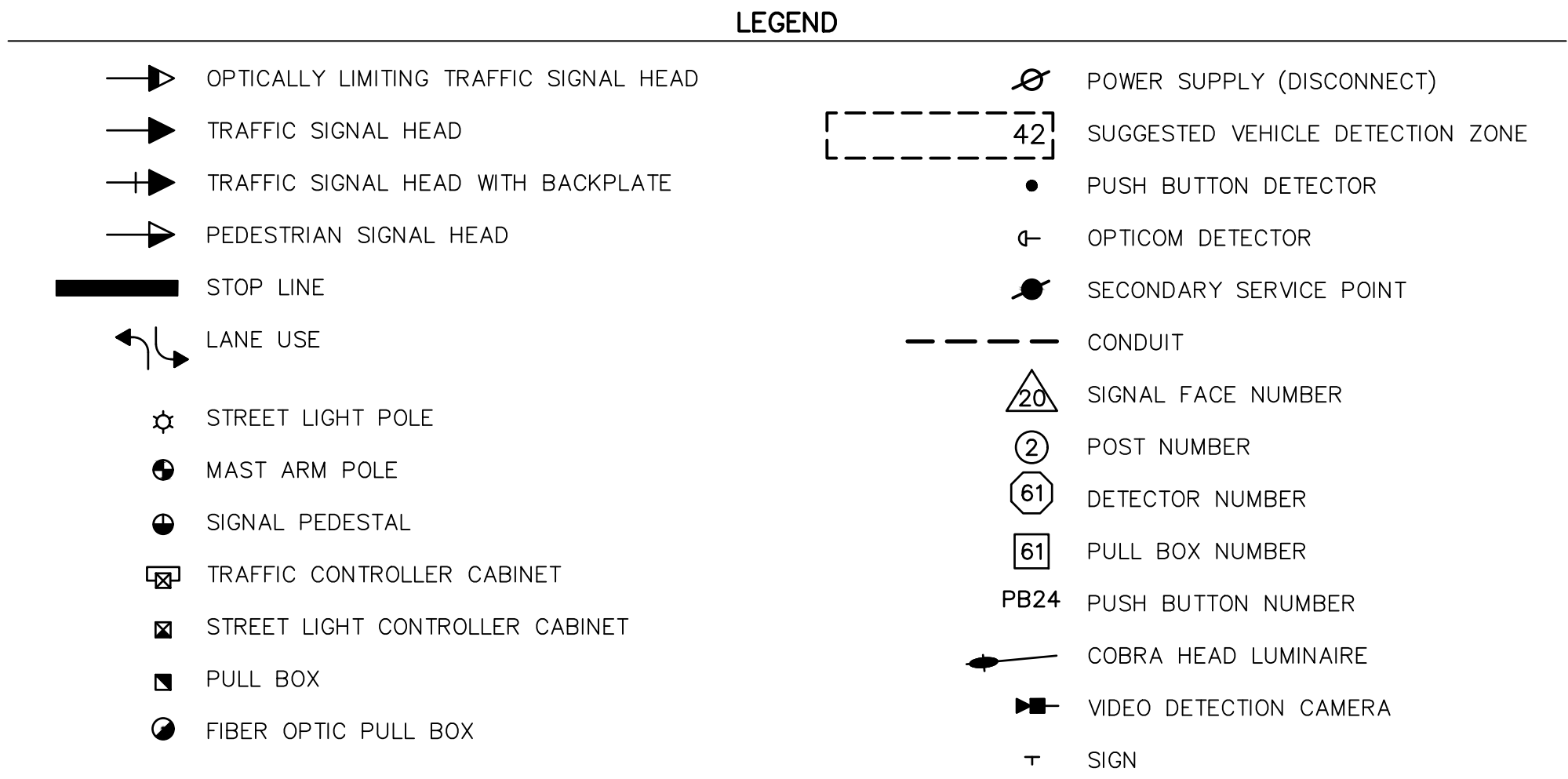
5. CONTRACTOR TO PROVIDE PEDESTRIAN DETOUR PLAN ALONG WITH TRAFFIC SEQUENCING PLAN.

6. CONTRACTOR TO INSTALL CONSTRUCTION FENCING AROUND AREAS WHERE PEDESTRIAN MOVEMENTS MAY CONFLICT WITH CONSTRUCTION ACTIVITIES.

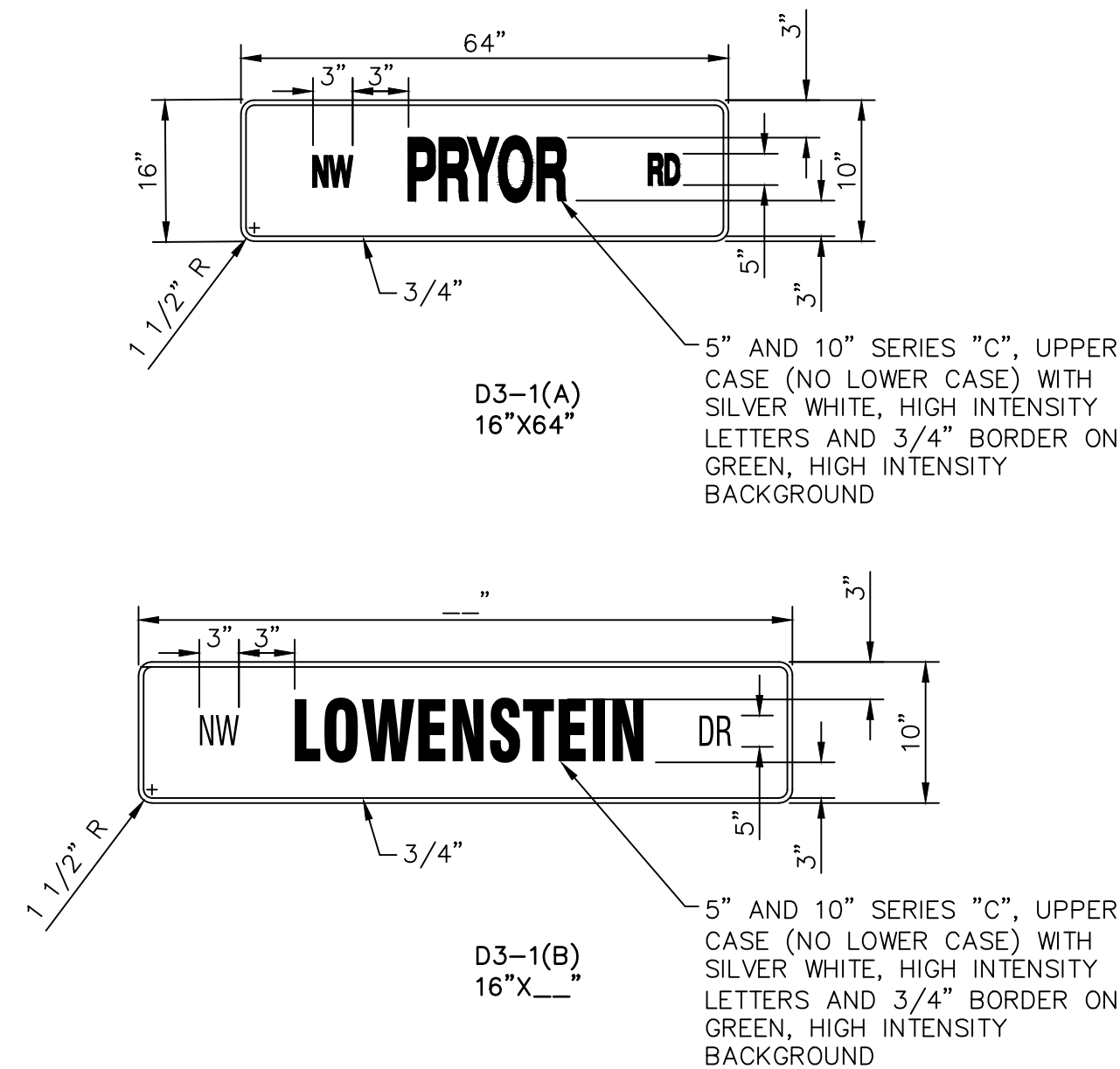
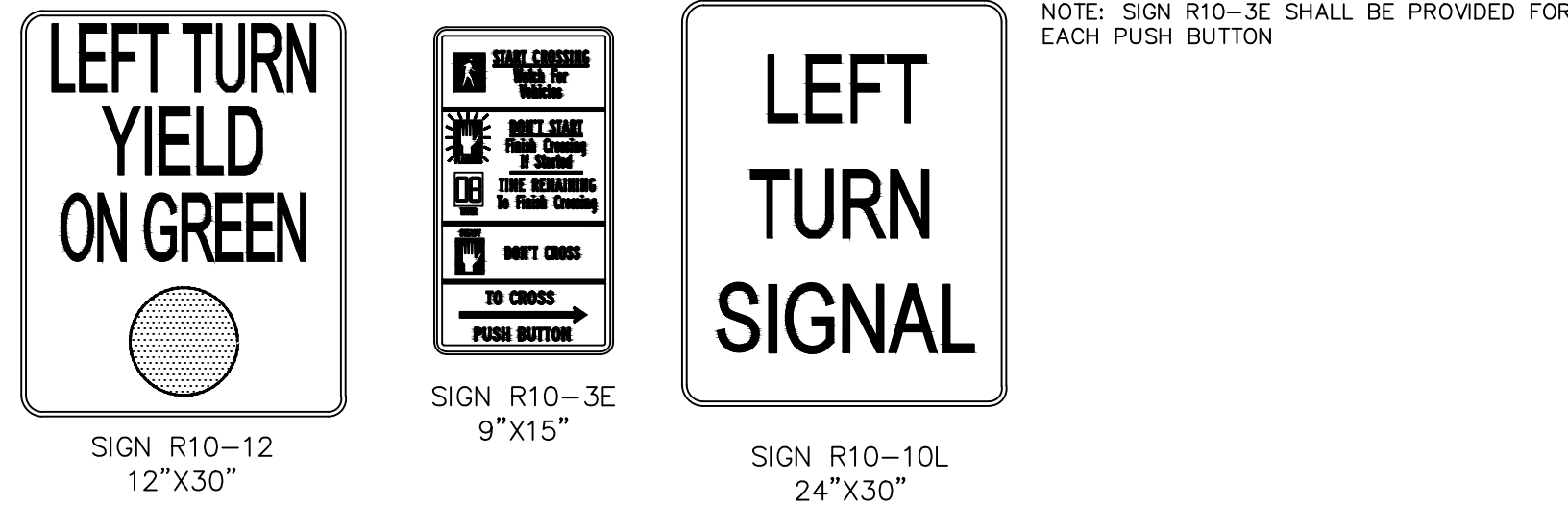
7. NO COLLECTOR OR ARTERIAL STREETS SHALL HAVE LANE(S) REDUCED OR CLOSED BEFORE 9 A.M. AND AFTER 4 P.M. MONDAY THRU FRIDAY. NO WORK ON SATURDAY, SUNDAYS OR HOLIDAYS OBSERVED BY THE CITY.

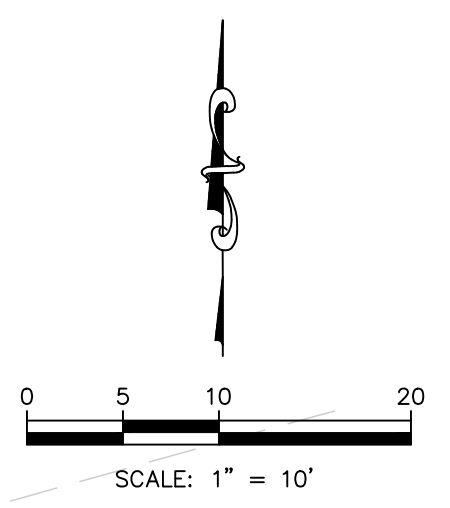
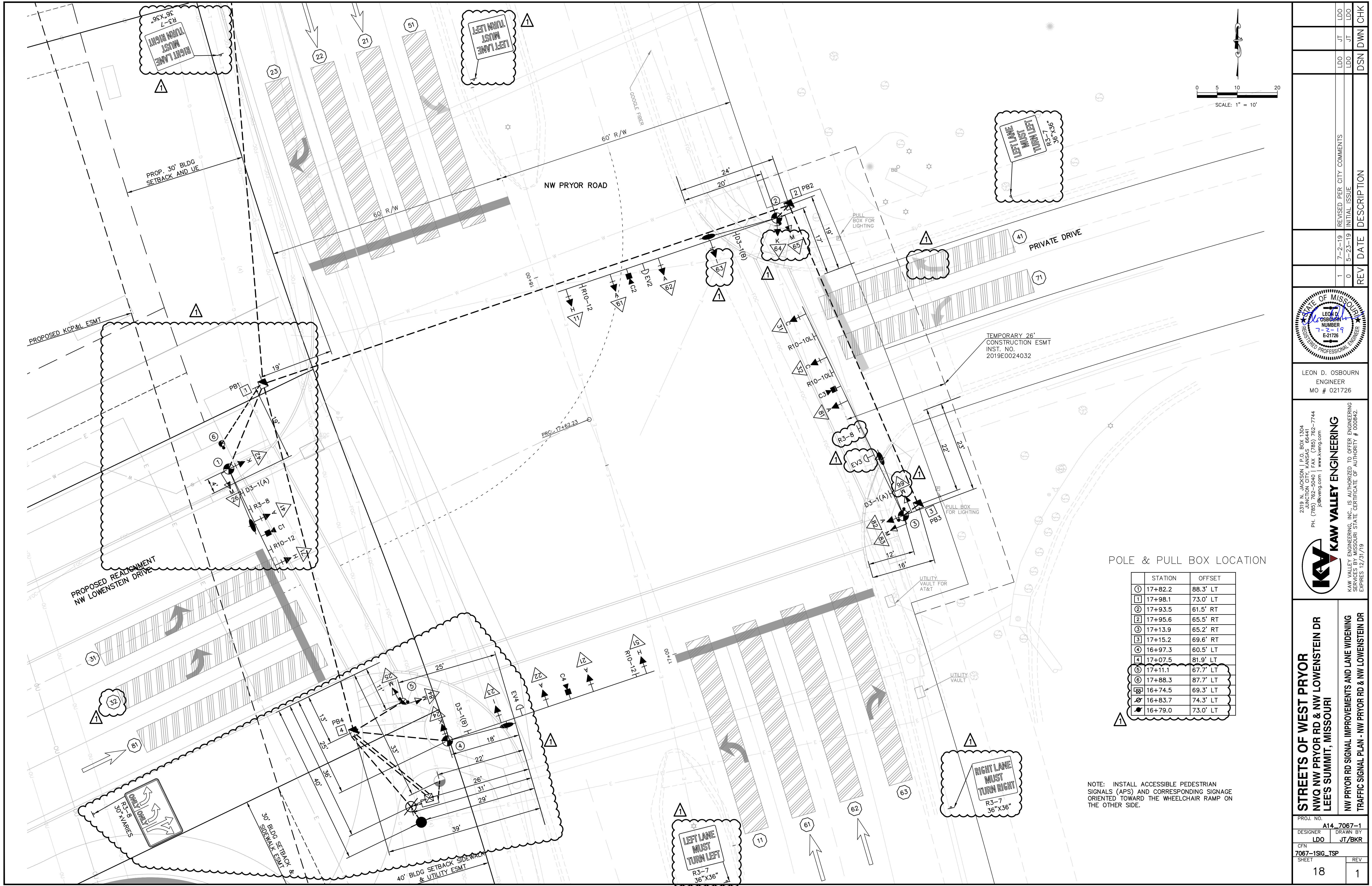
8. ALL TRAVEL LANES SHALL BE A MINIMUM OF 11.00 FEET WIDE EXCLUDING CURB AND GUTTER. ALL SIDEWALKS SHALL HAVE A MINIMUM CLEAR PATH OF 3.5 FEET. ALL MULTI-USE PATHS SHALL HAVE A MINIMUM CLEAR PATH OF 8.00 FEET.

9. CONTRACTOR SHOULD REVIEW TTCP AND MEET REQUIREMENTS PER CITY OF LEE'S SUMMIT REGULATIONS.



TYPICAL REGULATORY SIGN DETAIL





POLE & PULL BOX LOCATION

	STATION	OFFSET
①	17+82.2	88.3' LT
①	17+98.1	73.0' LT
②	17+93.5	61.5' RT
②	17+95.6	65.5' RT
③	17+13.9	65.2' RT
③	17+15.2	69.6' RT
④	16+97.3	60.5' LT
④	17+07.5	81.9' LT
⑤	17+11.1	67.7' LT
⑥	17+88.3	87.7' LT
⑥	16+74.5	69.3' LT
⑥	16+83.7	74.3' LT
⑥	16+79.0	73.0' LT

NOTE: INSTALL ACCESSIBLE PEDESTRIAN SIGNALS (APS) AND CORRESPONDING SIGNAGE ORIENTED TOWARD THE WHEELCHAIR RAMP ON THE OTHER SIDE.

STATE OF MISSOURI
LEON D. OSBOURN
ENGINEER
NUMBER 7-2-19
E-21726

LEON D. OSBOURN
ENGINEER
MO # 021726

2319 N. JACKSON | P.O. BOX 1304
JUNCTION CITY, KANSAS 66441
PH. (785) 762-5040 | FAX (785) 762-7744
joe@kve.com | www.kve.com

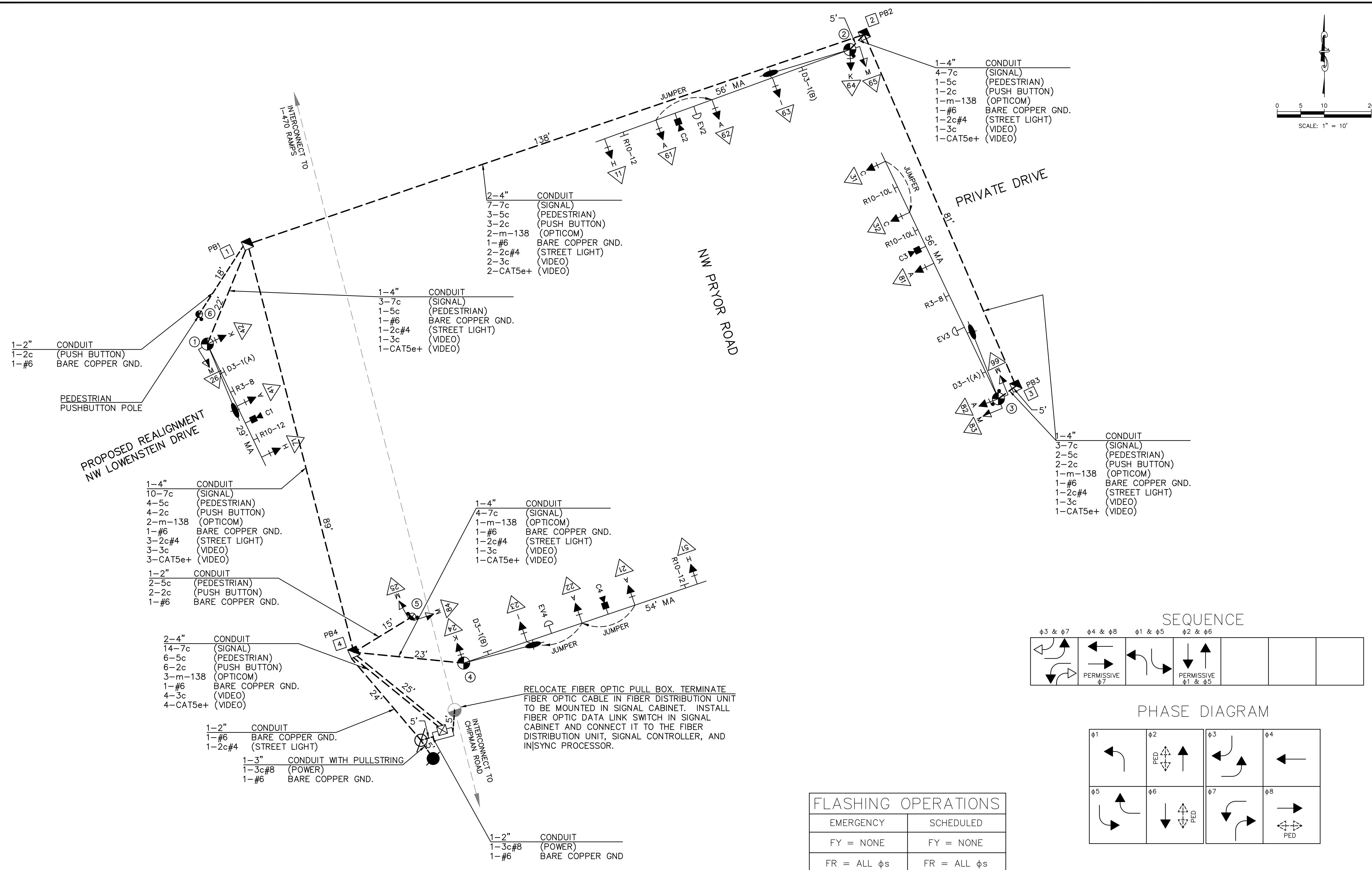
KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN THE STATE OF MISSOURI. CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19

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

NW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING
TRAFFIC SIGNAL PLAN - NW PRYOR RD & NW LOWENSTEIN DR

PROJ. NO. A14-7067-1
DESIGNER LDO
DRAWN BY JT/BKR
CFN 7067-1SIG_TSP
SHEET 18

REV 0
DATE 5-23-19
DESCRIPTION INITIAL ISSUE
LDO LDO LDO
JT JT JT
DSN DSN DSN
CHK



WIRING AND PHASING GENERAL NOTES::

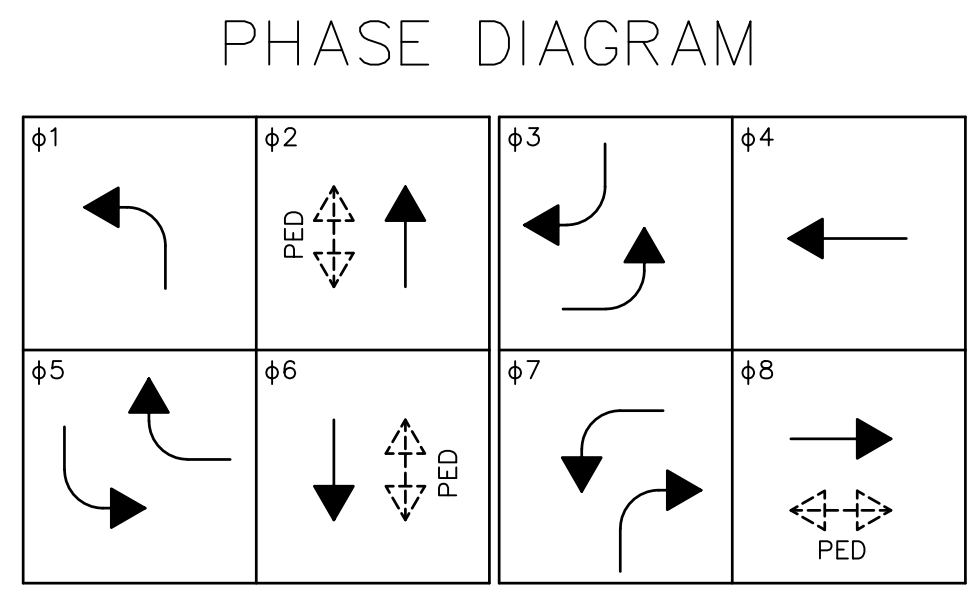
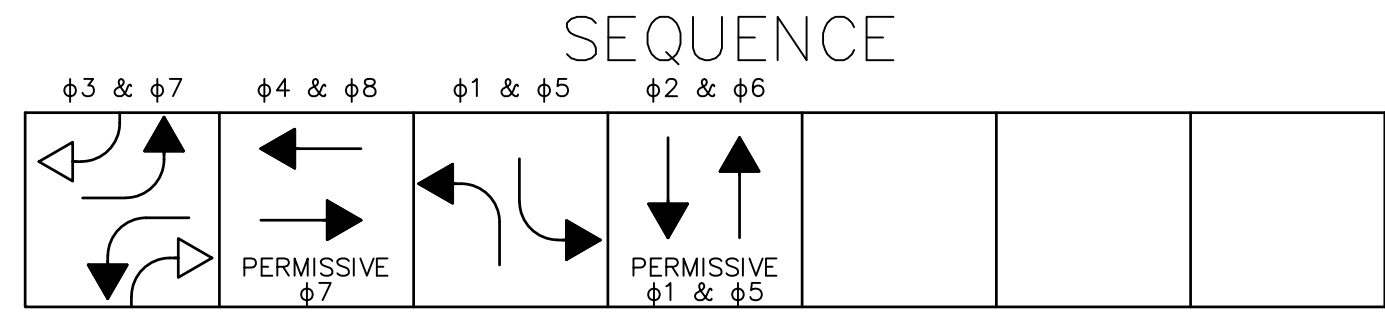
1. THE OUTBOARD SIGNAL HEAD (FURTHEST ON THE MAST ARM FROM THE POLE) FOR EACH PHASE SHALL EACH BE SERVED BY ONE 7c#14 CABLE EXTENDING FROM THE HEAD BACK TO THE CONTROLLER. EACH OF THE REMAINING SAME PHASE VEHICLE SIGNAL HEADS LOCATED ON THE MAST ARE SHALL BE CONNECTED TO LIKE PHASE SIGNAL HEADS VIA A 7c#14 CABLE CONNECTED WITHIN THE SIGNAL HEAD TERMINAL BOX. A MAXIMUM OF THREE VEHICLE HEADS MAY BE JOINED TOGETHER, ANY ADDITIONAL SIGNAL HEADS WOULD REQUIRE A SEPARATE CABLE EXTENDING FROM THE HEAD BACK TO THE CONTROLLER. ALL VEHICULAR SIGNAL HEADS LOCATED ON THE POLE SHALL EACH BE SERVED BY ONE 7c#14 CABLE EXTENDING FROM THE HEAD BACK TO THE CONTROLLER. NO CABLE SPLICES ARE ALLOWED, INCLUDING AT THE BASE OF THE POLE AND INSIDE PULL BOXES, EXCEPT FOR STREET LIGHTING CABLES.

2. STREET LIGHTING CABLE, NOT SIGNAL CABLE, MAY BE SPLICED INSIDE OF PULL BOXES USING A SPLIT BOLT CONNECTOR AND RESIN FILLED SPLICE KIT AS DESCRIBED IN SECTION 2800 OF THE TECHNICAL SPECIFICATIONS.

3. A CONTINUOUS 1c #6 AWG BARE SOLID COPPER GROUND WIRE SHALL BE PROVIDED IN ADDITION TO GROUND RODS. ALL GROUNDING AND GROUND RODS SHALL BE TIED TOGETHER USING 1c #6 AWG BARE SOLID COPPER WIRE TO BOND THE SYSTEM.

FLASHING OPERATIONS	
EMERGENCY	SCHEDULED
FY = NONE	FY = NONE
FR = ALL ϕ s	FR = ALL ϕ s

POWER SUPPLY				
LOCATION	POWER SUPPLY TYPE	CIRCUIT BREAKER TRIP RATINGS		
		SERVICE DISCONNECT (2 POLE)	TRAFFIC SIGNAL (1-POLE)	LIGHTING (2-POLE)
SW CORNER	1 CIRCUIT	40 AMP	30 AMP	15 AMP



OUTPUT FILE ASSIGNMENTS						
FR1	ϕ 1	ϕ 2	PED ϕ 2	ϕ 3	ϕ 4	PED ϕ 4
FR2	ϕ 5	ϕ 6	PED ϕ 6	ϕ 7	ϕ 8	PED ϕ 8

EXTENSIVE REVISIONS

1	7-2-19	0	5-23-19	REV	DATE	DESCRIPTION
1	7-2-19	0	5-23-19	REV	DATE	DESCRIPTION

LEON D. OSBOURN
ENGINEER
MO # 021726

2319 N. JACKSON | P.O. BOX 1304
JUNCTION CITY, KANSAS 66441
PH. (785) 762-5040 | FAX (785) 762-7744
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KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN THE STATE OF MISSOURI. EXPIRES 12/31/19.

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

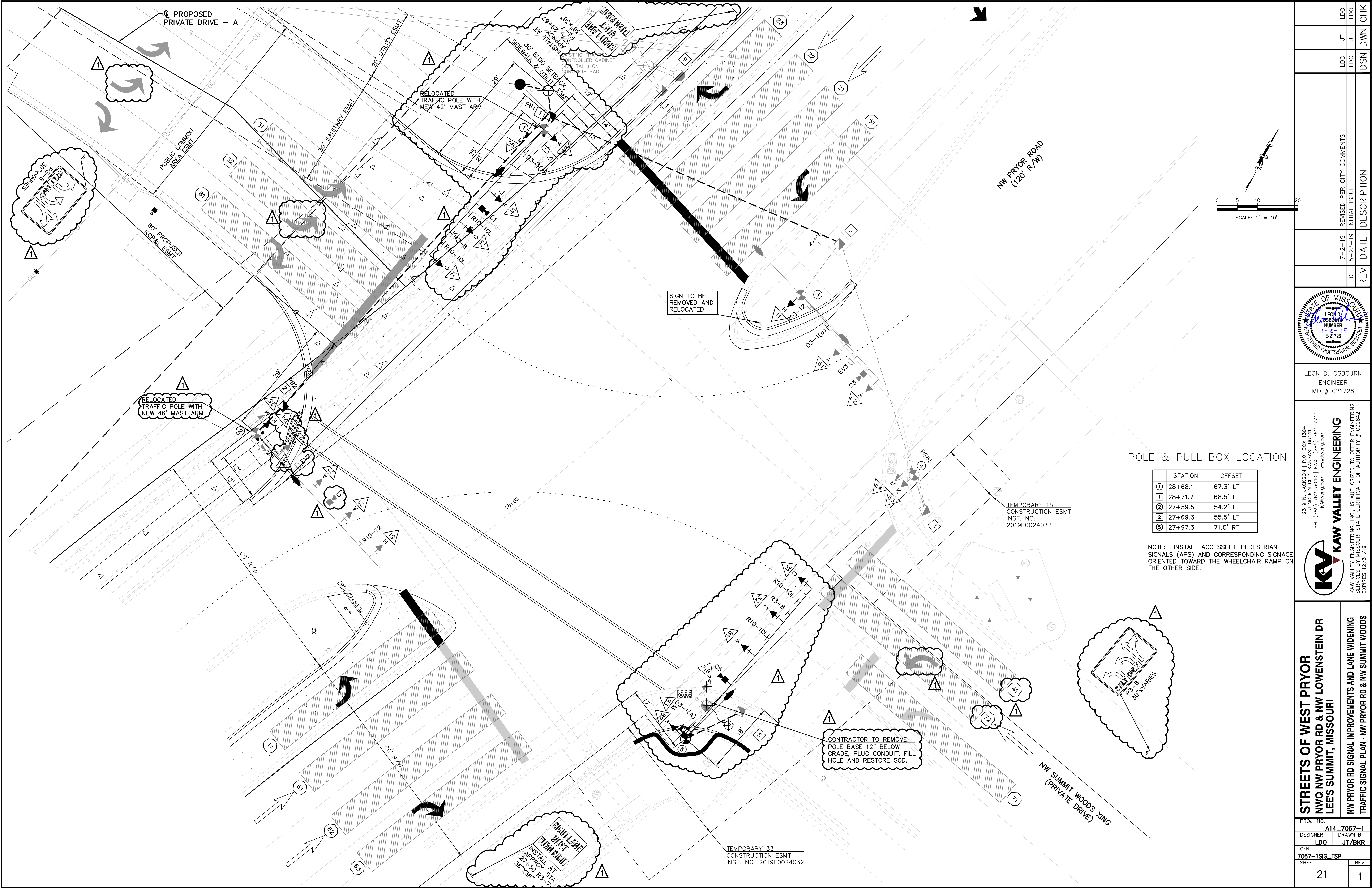
NW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING
TRAFFIC SIGNAL WIRE DIAGRAM - NW PRYOR RD & NW LOWENSTEIN DR

PROJ. NO. **A14-7067-1**

DESIGNER **LDO** DRAWN BY **JT/BKR**

CFN **7067-1SIG_WIRE**

SHEET **19** REV **1**



THIS DRAWING SHALL NOT BE UTILIZED BY ANY PERSON, FIRM, OR CORPORATION IN WHOLE OR IN PART WITHOUT THE SPECIFIC PERMISSION OF KAW VALLEY ENGINEERING, INC.

REV	DATE	DESCRIPTION	DSN	DWN	CHK
1	7-2-19	REVISED PER CITY COMMENTS	LDO	JT	LDO
0	5-23-19	INITIAL ISSUE	LDO	JT	LDO

LEON D. OSBOURN
ENGINEER
MO # 021726

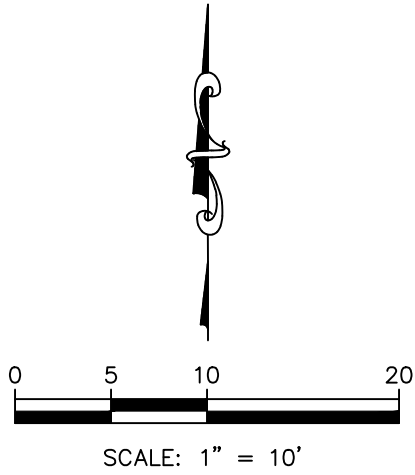
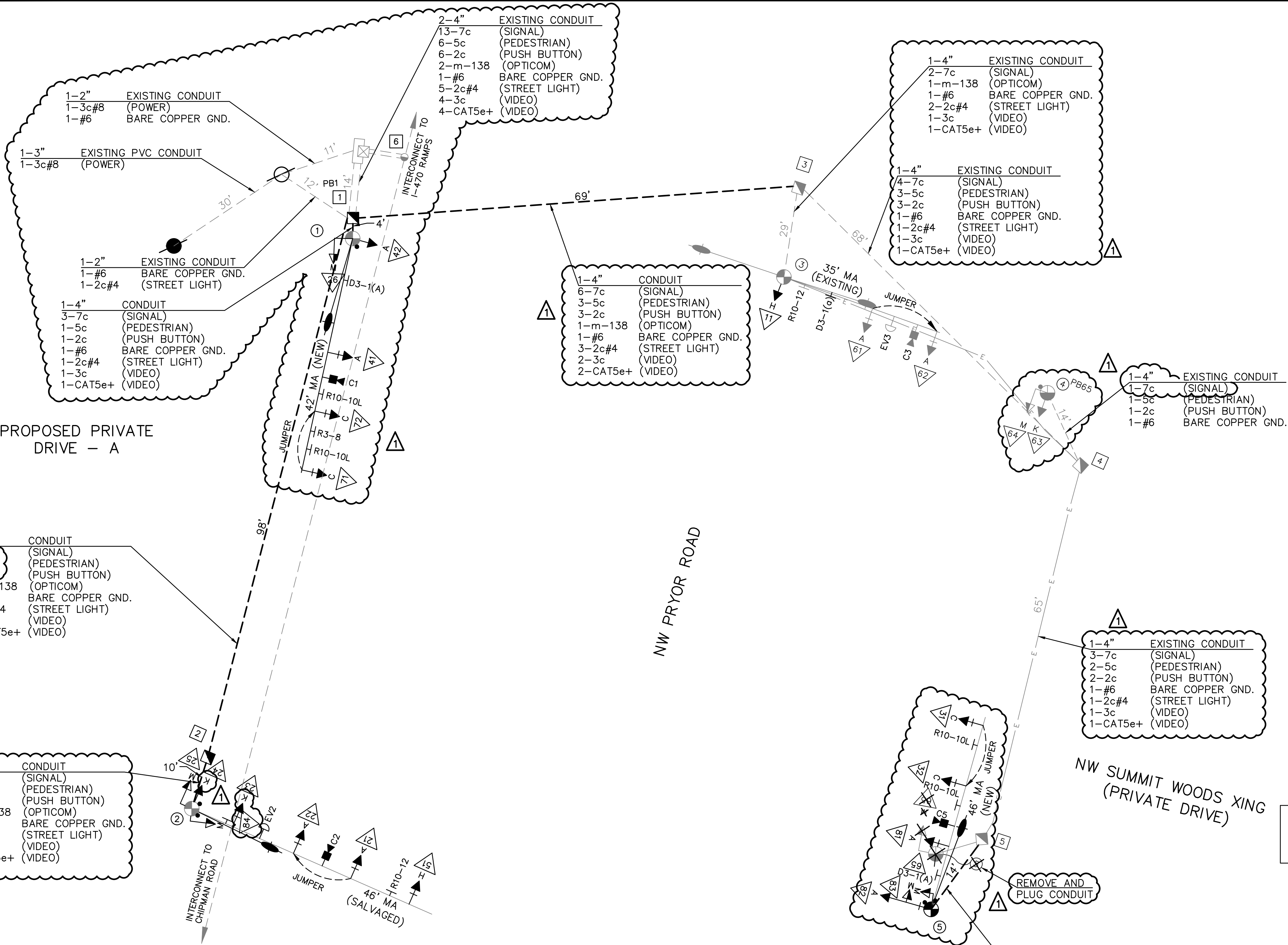
2319 N. JACKSON | P.O. BOX 1304
JUNCTION CITY, KANSAS 66441
PH. (785) 762-5040 | FAX (785) 762-7744
joe@kaveng.com | www.kaveng.com

KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN THE STATE OF MISSOURI UNDER A CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19.

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

NW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING
TRAFFIC SIGNAL PLAN - NW PRYOR RD & NW SUMMIT WOODS

PROJ. NO.	A14_7067-1
DESIGNER	DRAWN BY
LDO	JT/BKR
CFN	
7067-1SIG_TSP	
SHEET	REV
21	1

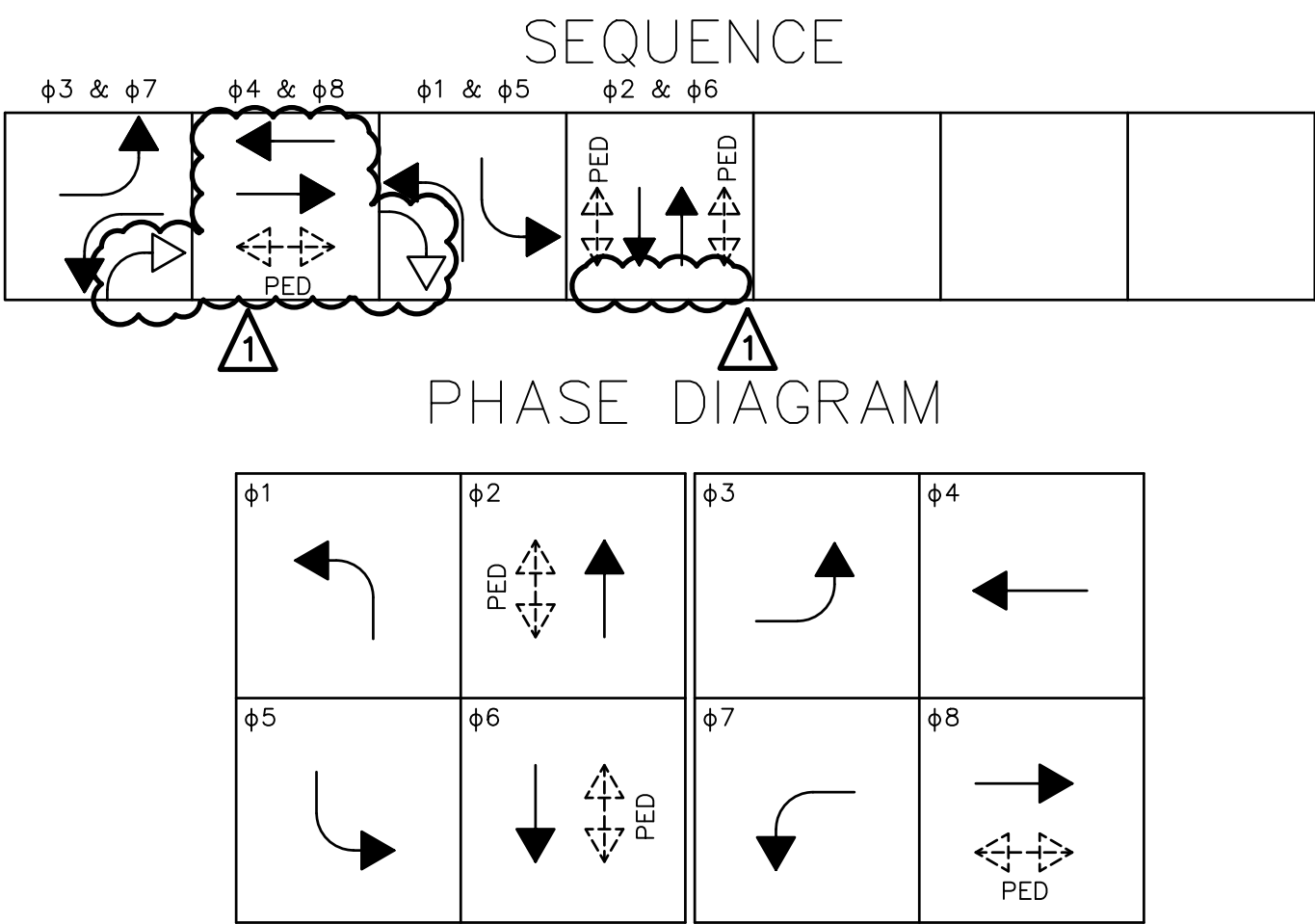


WIRING AND PHASING GENERAL NOTES:

1. THE OUTBOARD SIGNAL HEAD (FURTHEST ON THE MAST ARM FROM THE POLE) FOR EACH PHASE SHALL EACH BE SERVED BY ONE 7c#14 CABLE EXTENDING FROM THE HEAD BACK TO THE CONTROLLER. EACH OF THE REMAINING SAME PHASE VEHICLE SIGNAL HEADS LOCATED ON THE MAST ARE SHALL BE CONNECTED TO LIKE PHASE SIGNAL HEADS VIA A 7c#14 CABLE CONNECTED WITHIN THE SIGNAL HEAD TERMINAL BOX. A MAXIMUM OF THREE VEHICLE HEADS MAY BE JOINED TOGETHER. ANY ADDITIONAL SIGNAL HEADS WOULD REQUIRE A SEPARATE CABLE EXTENDING FROM THE HEAD BACK TO THE CONTROLLER. ALL VEHICULAR SIGNAL HEADS LOCATED ON THE POLE SHALL EACH BE SERVED BY ONE 7c#14 CABLE EXTENDING FROM THE HEAD BACK TO THE CONTROLLER. NO CABLE SPLICES ARE ALLOWED, INCLUDING AT THE BASE OF THE POLE AND INSIDE PULL BOXES, EXCEPT FOR STREET LIGHTING CABLES.
2. STREET LIGHTING CABLE, NOT SIGNAL CABLE, MAY BE SPLICED INSIDE OF PULL BOXES USING A SPLIT BOLT CONNECTOR AND RESIN FILLED SPLICE KIT AS DESCRIBED IN SECTION 2800 OF THE TECHNICAL SPECIFICATIONS.
3. A CONTINUOUS 1c #6 AWG BARE SOLID COPPER GROUND WIRE SHALL BE PROVIDED IN ADDITION TO GROUND RODS. ALL GROUNDING AND GROUND RODS SHALL BE TIED TOGETHER USING 1c #6 AWG BARE SOLID COPPER WIRE TO BOND THE SYSTEM.
4. ALL SIGNAL HEADS FOR PHASES 3/8 ARE WIRED INDEPENDENTLY TO ALLOW FOR A SINGLE PROTECTED/PERMISSIVE LEFT TURN AND A THROUGH OR FOR DUAL LEFTS.

FLASHING OPERATIONS	
EMERGENCY	SCHEDULED
FY = NONE	FY = NONE
FR = ALL ϕ s	FR = ALL ϕ s

POWER SUPPLY				
LOCATION	POWER SUPPLY TYPE	CIRCUIT BREAKER TRIP RATINGS		
		SERVICE DISCONNECT (2 POLE)	TRAFFIC SIGNAL (1-POLE)	LIGHTING (2-POLE)
NW CORNER	1 CIRCUIT	40 AMP	30 AMP	15 AMP



OUTPUT FILE ASSIGNMENTS							
FR1	ϕ 1	ϕ 2	PED ϕ 2	ϕ 3	ϕ 4	PED ϕ 4	MONITOR
FR2							
FR1	ϕ 5	ϕ 6	PED ϕ 6	ϕ 7	ϕ 8	PED ϕ 8	
FR2							

DATE OF MISSOURI PROFESSIONAL ENGINEER	7-2-19	REV	DATE	DESCRIPTION
LEON D. OSBOURN ENGINEER MO # 021726	7-2-19	0	5-23-19	INITIAL ISSUE
2319 N. JACKSON, P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH. (785) 762-5040 FAX (785) 762-7744 joe@kvweng.com www.kvweng.com	7-2-19	1	7-2-19	REVISED PER CITY COMMENTS
KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN THE STATE OF MISSOURI. CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19.	7-2-19	1	7-2-19	REVISED PER CITY COMMENTS
STREETS OF WEST PRYOR NW & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI	7-2-19	1	7-2-19	REVISED PER CITY COMMENTS
PROJ. NO. A14-7067-1	7-2-19	1	7-2-19	REVISED PER CITY COMMENTS
DESIGNER LDO	7-2-19	1	7-2-19	REVISED PER CITY COMMENTS
DRAWN BY JT/BKR	7-2-19	1	7-2-19	REVISED PER CITY COMMENTS
CFN 7067-1SIG_WIRE	7-2-19	1	7-2-19	REVISED PER CITY COMMENTS
SHEET 22	7-2-19	1	7-2-19	REVISED PER CITY COMMENTS
1	7-2-19	1	7-2-19	REVISED PER CITY COMMENTS



























[illegible]

* SIGNAL HEAD SPACING (FEET) MAY BE ADJUSTED TO SITE CONDITIONS AS APPROVED BY THE PROJECT INSPECTOR.

[illegible][illegible][illegible]

CONTROLLER AND EQUIPMENT	TOTALS
CABINET AND ACCESSORIES: NEMA TYPE P TS1 CABINET	—EXISTING—
CONTROLLER: TYPE 3608 M 52 EAGLE EPAC COMPLETE PER PLANS, INCLUDING SOFTWARE	—EXISTING—
EMERGENCY VEHICLE DETECTION SYSTEM (COMPLETE): 3M REMOVE FROM PRIVATE DRIVE FOR LOWENSTEIN	—1
VIDEO DETECTION SYSTEM (COMPLETE): INSYNC ADAPTIVE TRAFFIC CONTROL SYSTEM	+1 INSYNC
FIBER DISTRIBUTION UNIT:	
1—CIRCUIT POWER SUPPLY (UTILITY ENCLOSURE PEDESTAL)	1
GROUND RODS: REUSE EXISTING	2
PUSHBUTTON DETECTORS	6
FIBER OPTIC DATA LINK SWITCH: KYLAND SICOM 3170	1
GROUND RODS	6
PUSHBUTTON DETECTORS	5

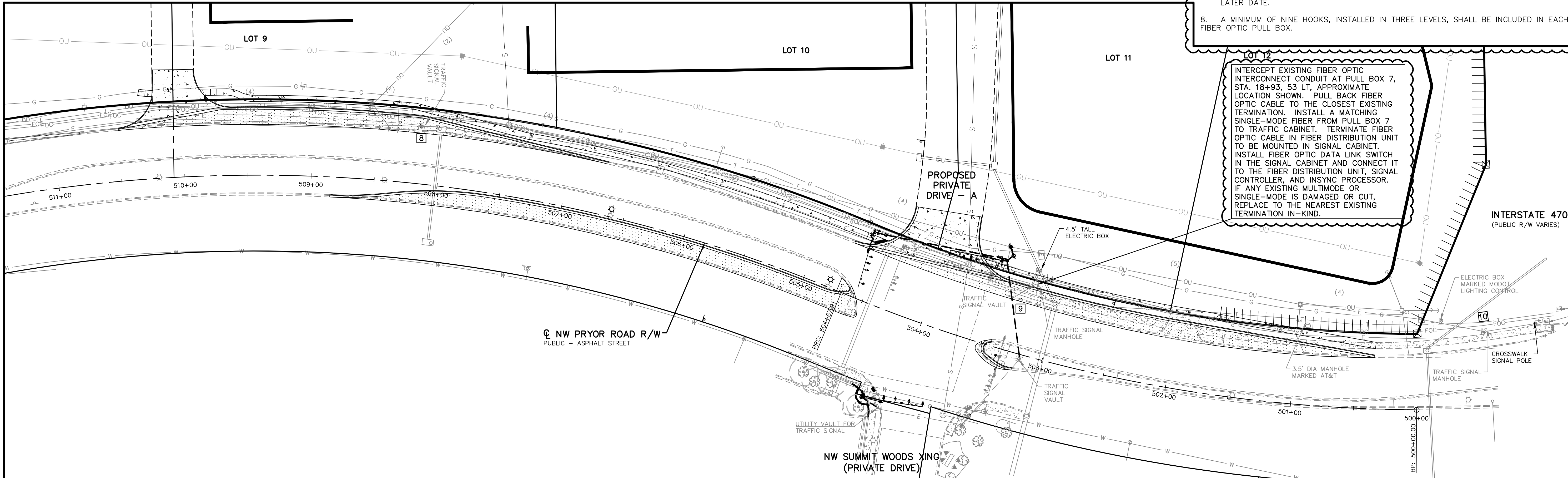
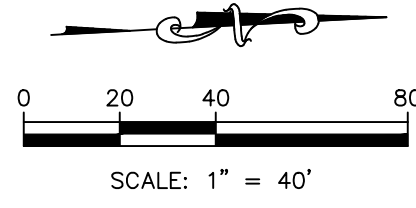
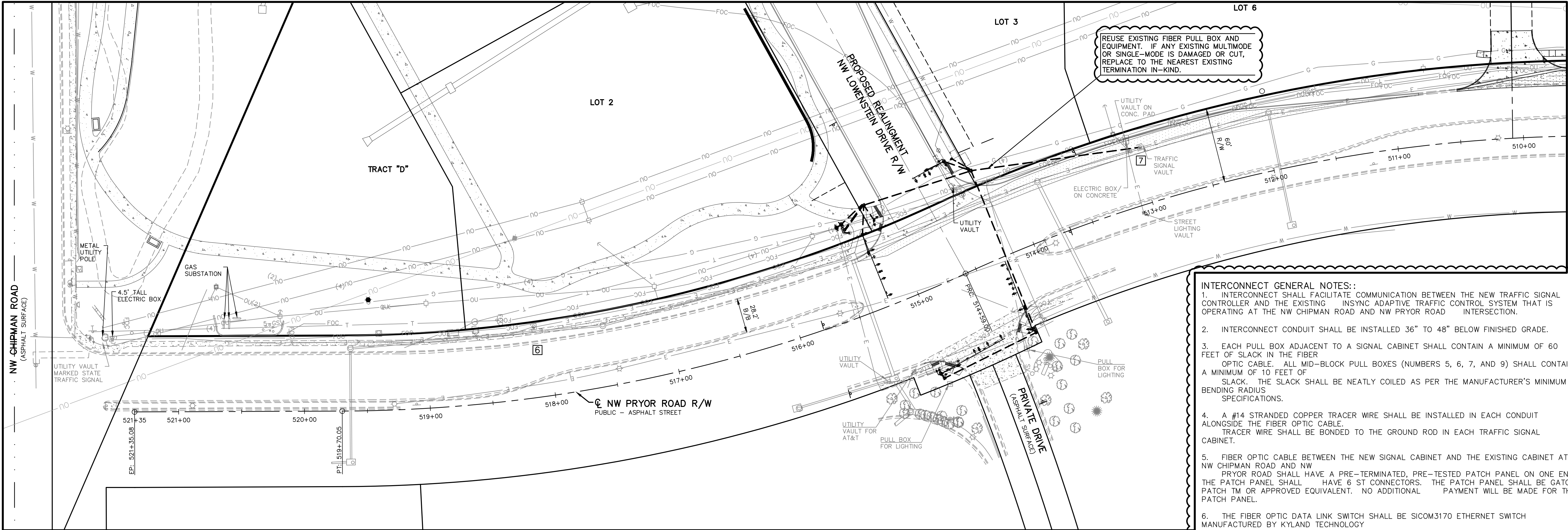
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SIGNAL CONDUIT				
FROM	TO	3" PVC	2" HDPE (GREY)	4" HDPE
		30		
			11	
			12	
				28
				4
				98
				10
				69
				29
				68
				14
				65
				14
SUBTOTAL (FEET)		30	23	399
BID TOTAL (FEET)		40	30	410

SIGNS				
SIGN	LEGEND	NO.	SF.	TOTAL S.F.
R10-10L	LEFT TURN	4	5.0	20.0
R10-12	LTYOG	2	5.0	10.0
R10-3E	PED CROSSING	6	—	—
D3-1(A)	NW PRYOR RD	1	7.1	7.1
R3-8	LANE USAGE	2		
R3-7	RLMTL	2		
TOTAL				37.1

EXTENSIVE REVISIONS

STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI		PROJ. NO. A14-7067-1	
DESIGNER LDO		DRAWN BY JT/BKR	
CFN 7067-1SIG_QTY		REV 1	
SHEET 23		1	



- INTERCONNECT GENERAL NOTES:**
- INTERCONNECT SHALL FACILITATE COMMUNICATION BETWEEN THE NEW TRAFFIC SIGNAL CONTROLLER AND THE EXISTING INSYNC ADAPTIVE TRAFFIC CONTROL SYSTEM THAT IS OPERATING AT THE NW CHIPMAN ROAD AND NW PRYOR ROAD INTERSECTION.
 - INTERCONNECT CONDUIT SHALL BE INSTALLED 36" TO 48" BELOW FINISHED GRADE.
 - EACH PULL BOX ADJACENT TO A SIGNAL CABINET SHALL CONTAIN A MINIMUM OF 60 FEET OF SLACK IN THE FIBER OPTIC CABLE. ALL MID-BLOCK PULL BOXES (NUMBERS 5, 6, 7, AND 9) SHALL CONTAIN A MINIMUM OF 10 FEET OF SLACK. THE SLACK SHALL BE NEATLY COILED AS PER THE MANUFACTURER'S MINIMUM BENDING RADIUS SPECIFICATIONS.
 - A #14 STRANDED COPPER TRACER WIRE SHALL BE INSTALLED IN EACH CONDUIT ALONGSIDE THE FIBER OPTIC CABLE. TRACER WIRE SHALL BE BONDED TO THE GROUND ROD IN EACH TRAFFIC SIGNAL CABINET.
 - FIBER OPTIC CABLE BETWEEN THE NEW SIGNAL CABINET AND THE EXISTING CABINET AT NW CHIPMAN ROAD AND NW PRYOR ROAD SHALL HAVE A PRE-TERMINATED, PRE-TESTED PATCH PANEL ON ONE END. THE PATCH PANEL SHALL HAVE 6 ST CONNECTORS. THE PATCH PANEL SHALL BE GATOR PATCH TM OR APPROVED EQUIVALENT. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE PATCH PANEL.
 - THE FIBER OPTIC DATA LINK SWITCH SHALL BE SICOM3170 ETHERNET SWITCH MANUFACTURED BY KYLAND TECHNOLOGY CO., LTD. THE SWITCH SHALL INCLUDE ALL NECESSARY MODULES, CABLES, AND POWER SUPPLY FOR COMMUNICATIONS BETWEEN THE 6MM FIBER OPTIC CABLES, SIGNAL CONTROLLER, AND INSYNC PROCESSOR.
 - FIBER OPTIC CABLE WILL NOT BE INSTALLED INTO THE EXISTING SIGNAL CABINET AT THE I-470 RAMPS. THE SPECIFIED LENGTH OF CABLE WILL BE ROUTED FROM THE NEW SIGNAL CABINET TO THE EXISTING PULL BOX AT STA. 32+74. THE CABLE WILL BE NEATLY COILED AND END CAPPED. MODOT WILL INSTALL THE FIBER INTO THE SIGNAL CABINET AT A LATER DATE.
 - A MINIMUM OF NINE HOOKS, INSTALLED IN THREE LEVELS, SHALL BE INCLUDED IN EACH FIBER OPTIC PULL BOX.

PROJ. NO. A14-7067-1		DESIGNER LDO		DRAWN BY JT/BKR	
CFN 7067-1SIC_CONN		SHEET		REV	
24		1			

REV	DATE	DESCRIPTION
1	7-2-19	REVISED PER CITY COMMENTS
0	5-23-19	INITIAL ISSUE

LDO	JT	LDO	CHK
LDO	JT	DSN	CHK

STATE OF MISSOURI

LEON D. OSBOURN
ENGINEER
MO # 021726

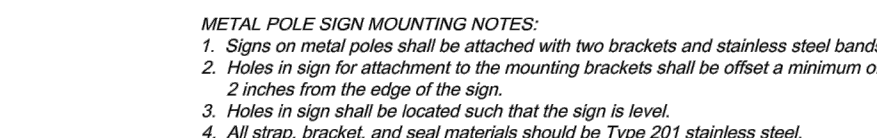
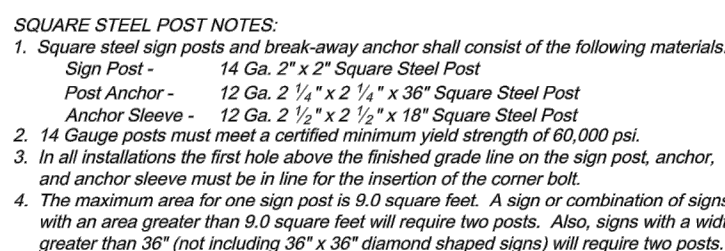
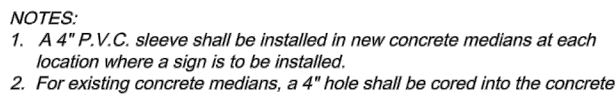
2319 N. JACKSON | P.O. BOX 1304
JUNCTION CITY, KANSAS 66441
PH. (785) 762-5040 | FAX (785) 762-7744
joe@kve.com | www.kve.com

KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN THE STATE OF MISSOURI. CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19

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

NW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING
TRAFFIC INTERCONNECT PLAN, NOTES AND WIRING

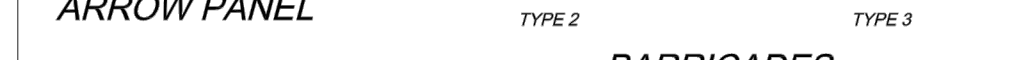


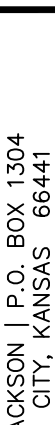

NOTES:

1. For all street name signs, the legend shall be white and the background shall be green.
2. Arrows shall be added to street name signs where the name of a street changes at an intersection. Street name signs with arrows are to be installed on one side of the intersection to indicate the change in names. Arrows shall be added to the "PRIVATE STREET" tag should be added to the end of street name signs to indicate where a street that is outside the right-of-way intersects a public street. The background for the "PRIVATE STREET" tag shall be yellow.

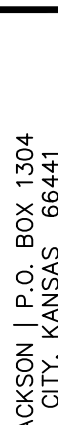



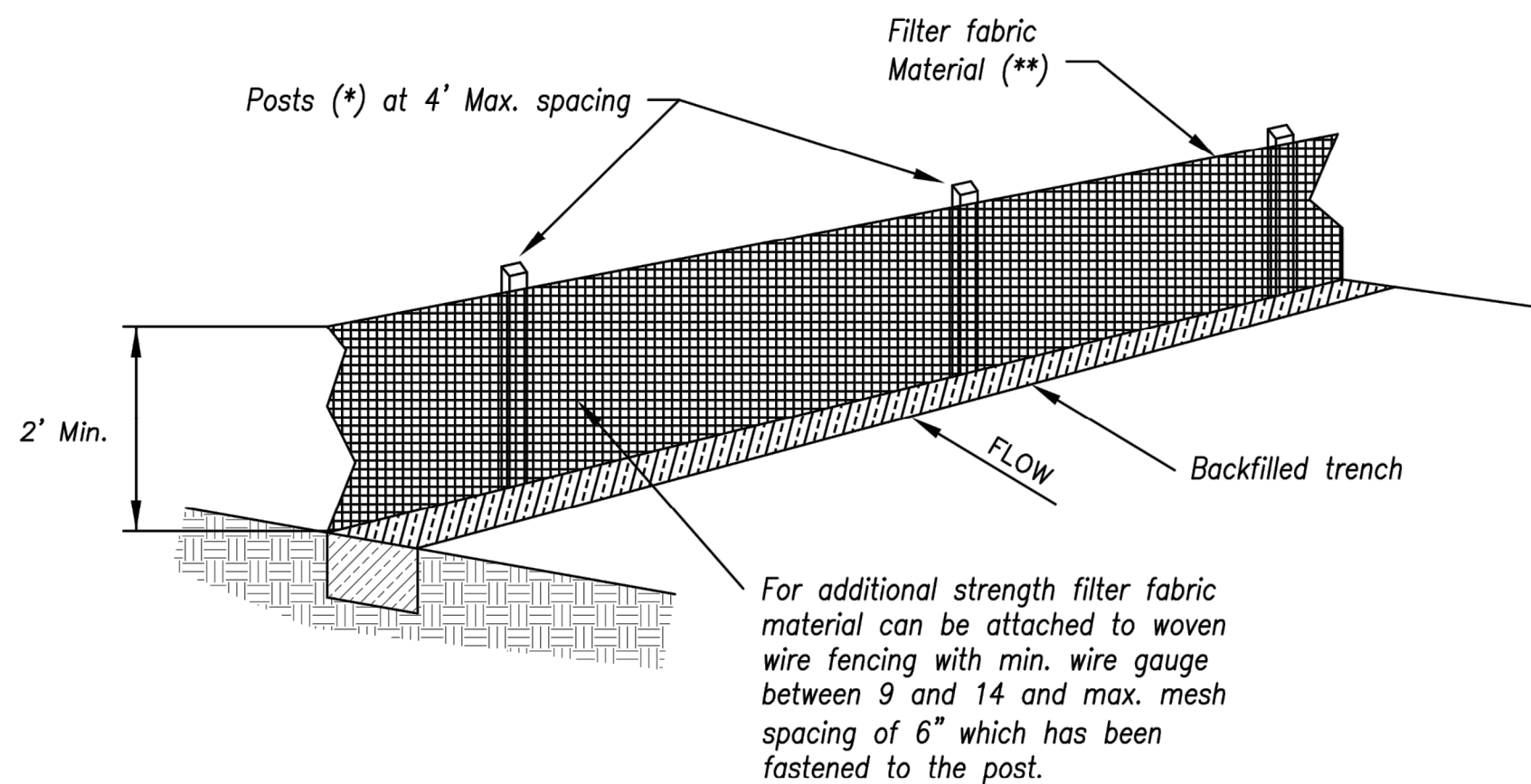
Speed Limit (mph)	Within Taper (Feet)	Outside Taper (Feet)
25	25	50
30	30	60
35	35	70
40	40	80
45	45	90

[illegible]

STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI		PROJ. NO. A14-7067-1			
		DESIGNER LDO	DRAWN BY JT/BKR		
CFN 7067-1SIG_DET		SHEET 27		REV 0	
NW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING SIGN AND TRAFFIC CONTROL DETAIL SHEET		<div> <div>  <div> KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19 </div> </div> <div> 2318 N. JACKSON P.O. BOX 1304 JACKSON, MISSOURI 64501 PH. (785) 702-5040 FAX (785) 762-7744 www.kveeng.com </div> </div>			
<div>  </div>		LEON D. OSBORN ENGINEER MO # 021726		<div> <div> 0 </div> <div> 5-23-19 </div> </div> <div> REV DATE </div>	
				INITIAL ISSUE	
				DESCRIPTION	
				DSN	
				DWN	
				CHK	



STREETS OF WEST PRYOR NW/4 NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI		PROJ. NO. A14-7067-1 DESIGNER LDO DRAWN BY JT/BKR CFN 7067-1SIG_DET SHEET 32		 KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19		2319 N. JACKSON P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH. (785) 833-7744 www.kveeng.com		LEON D. OSBOURN ENGINEER MO # 021726				REV DATE DESCRIPTION 1 (DATE) REVISED PER CITY COMMENTS 0 5-23-19 INITIAL ISSUE		LDO LDO LDO JT JT JT LDO LDO LDO DSN DWN CHK	
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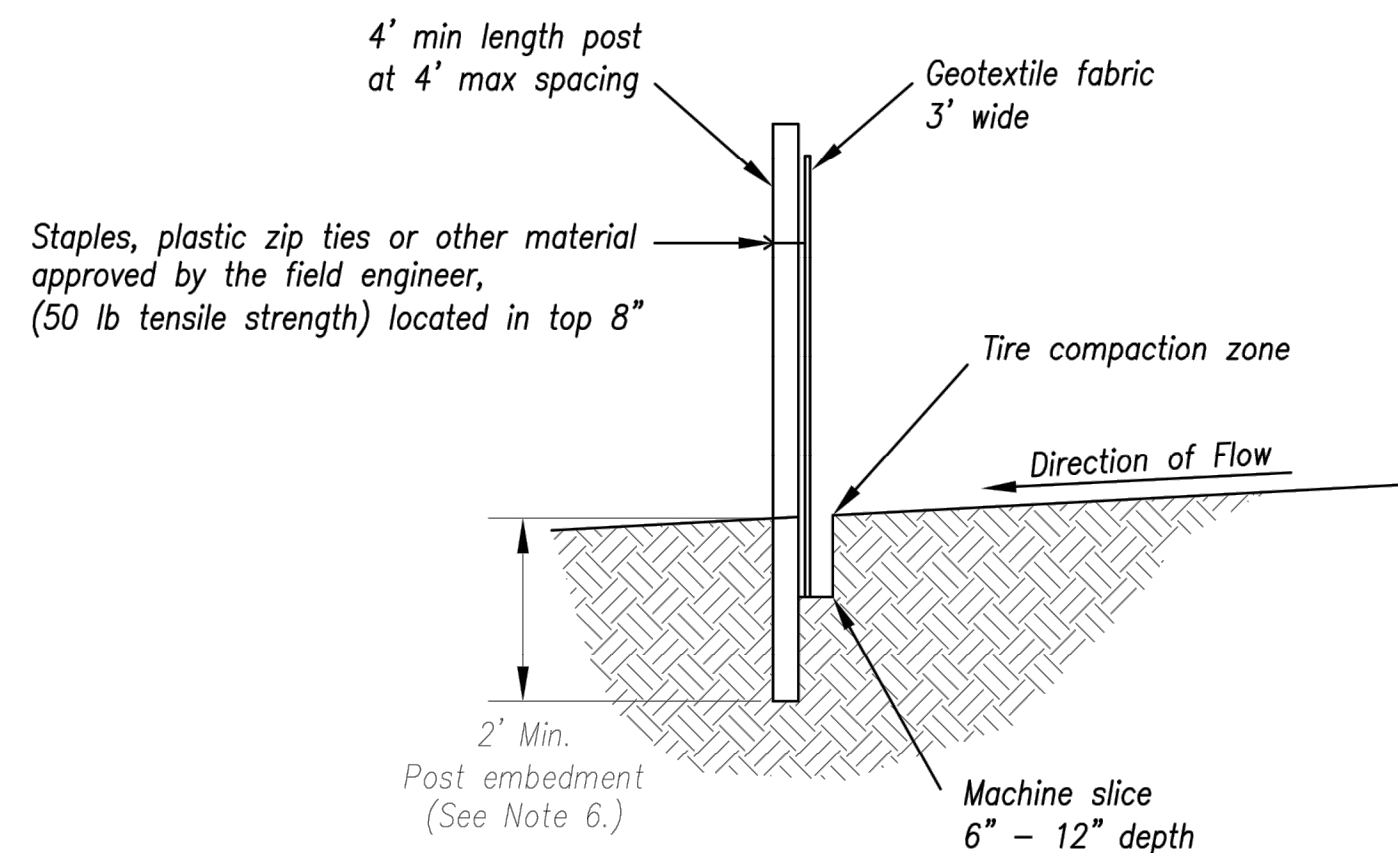
(*) **POSTS**

- MIN. LENGTH 4'
- HARDWOOD 1 3/8" x 1 3/8"
- NO.2 SOUTHERN PINE 2 5/8" x 2 5/8"
- STEEL 1.33 LB/FT

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

SILT FENCE DETAILS

Not to Scale



Notes:

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 used.

Maintenance:

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.

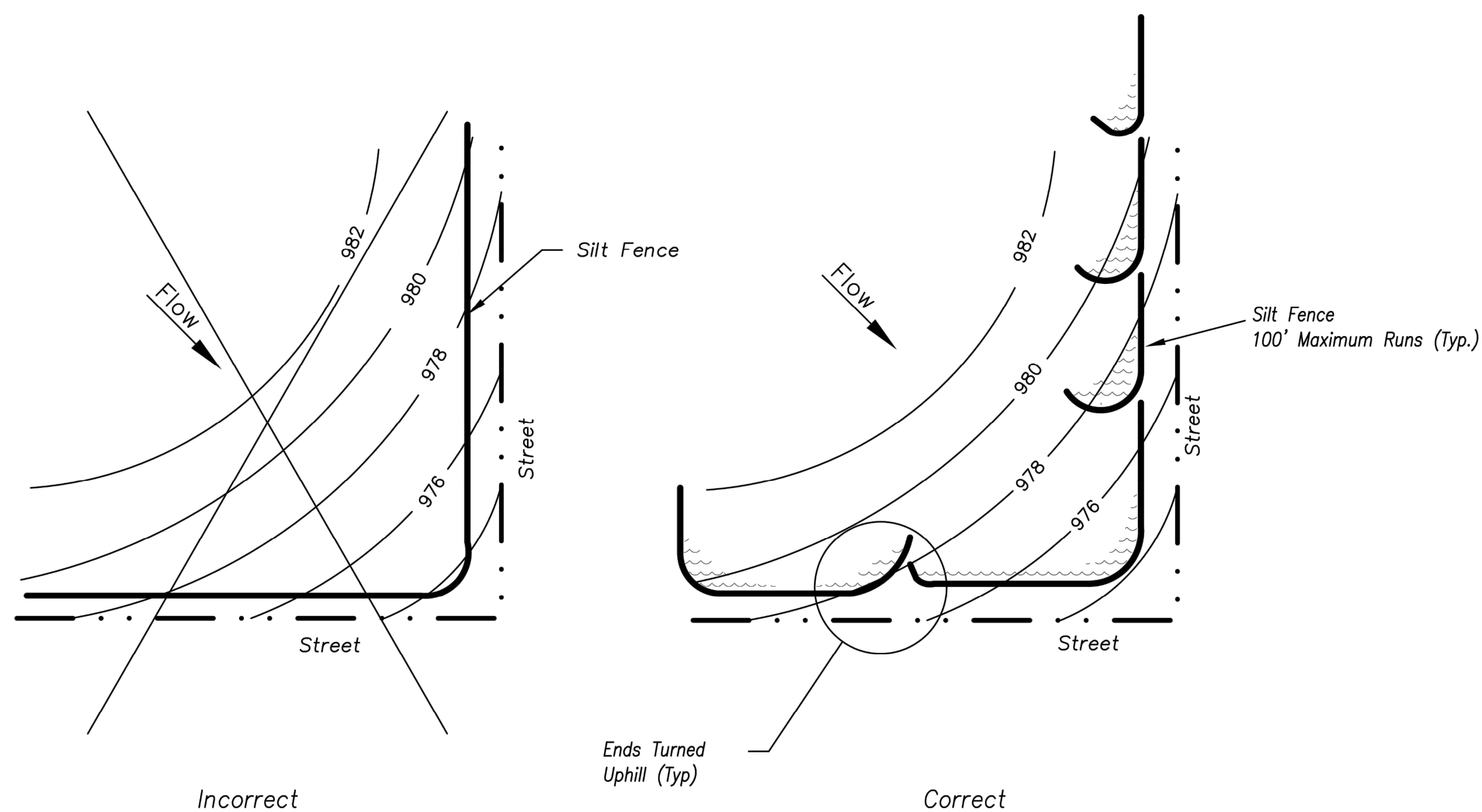
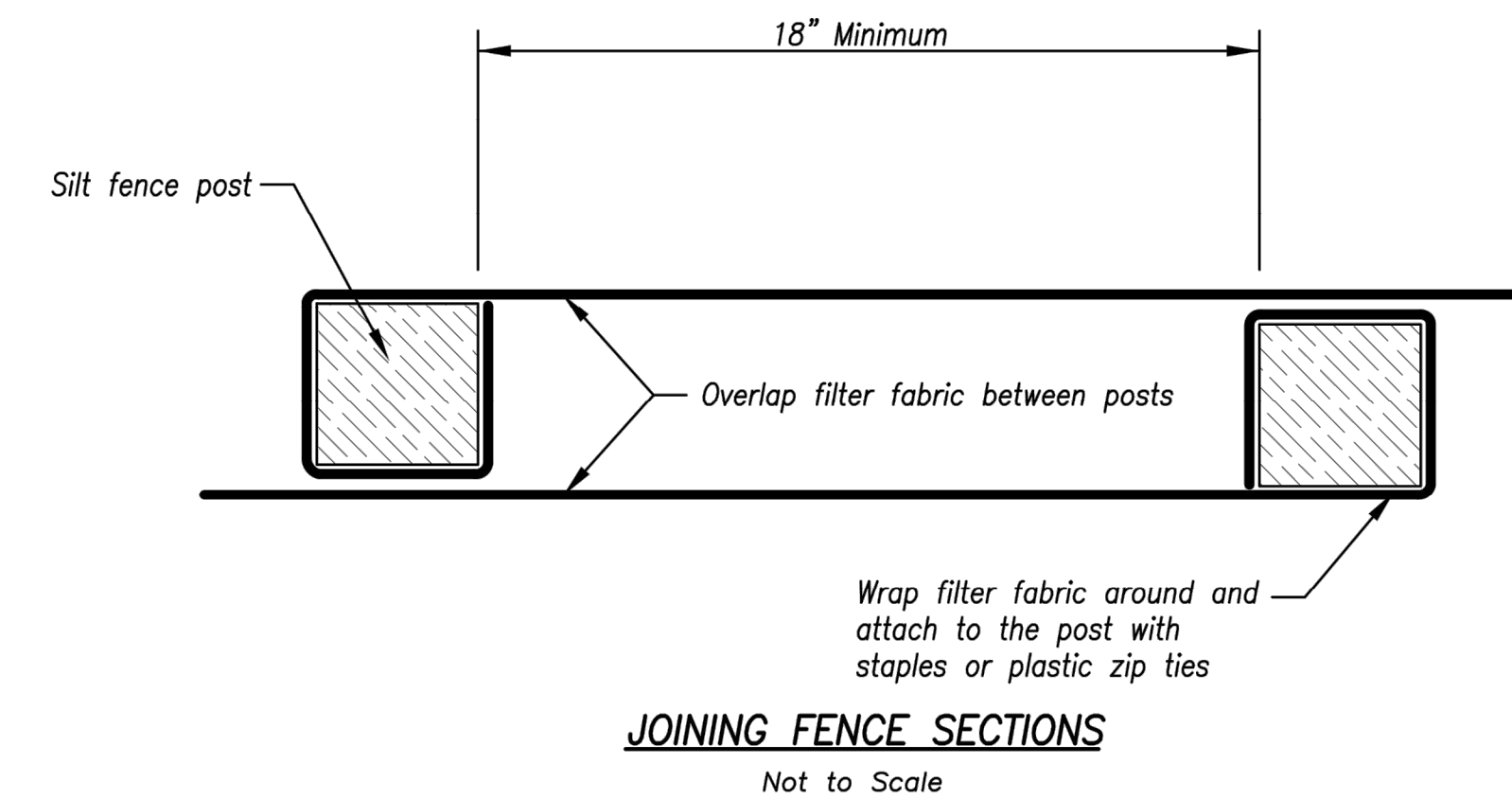
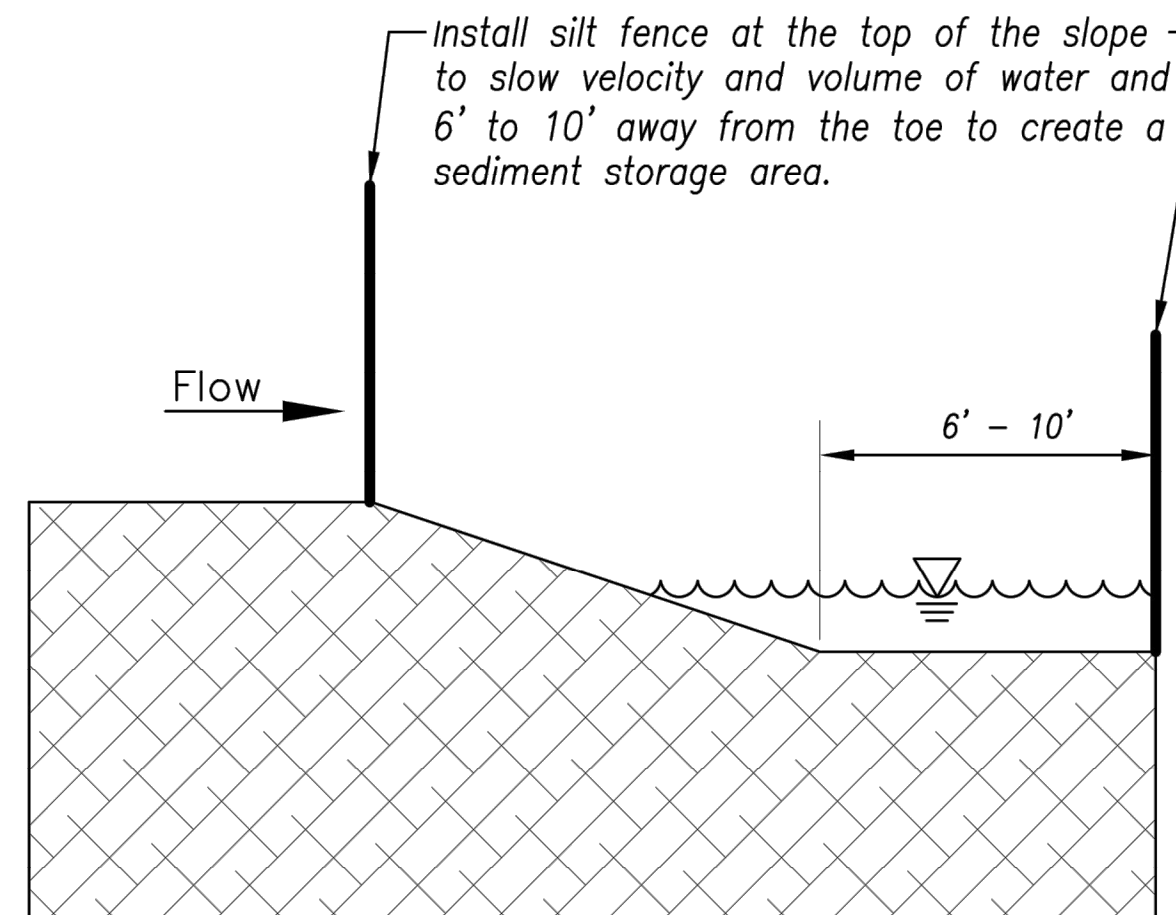


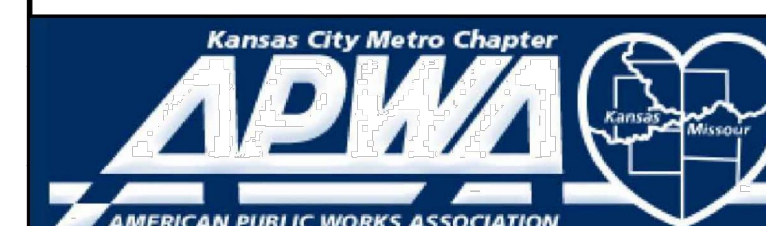
Figure A

SILT FENCE LAYOUT

Not to Scale



AMERICAN PUBLIC WORKS ASSOCIATION



KANSAS CITY
METRO CHAPTER

SILT FENCE

STANDARD DRAWING
NUMBER ESC-03

ADOPTED:
10/24/2016

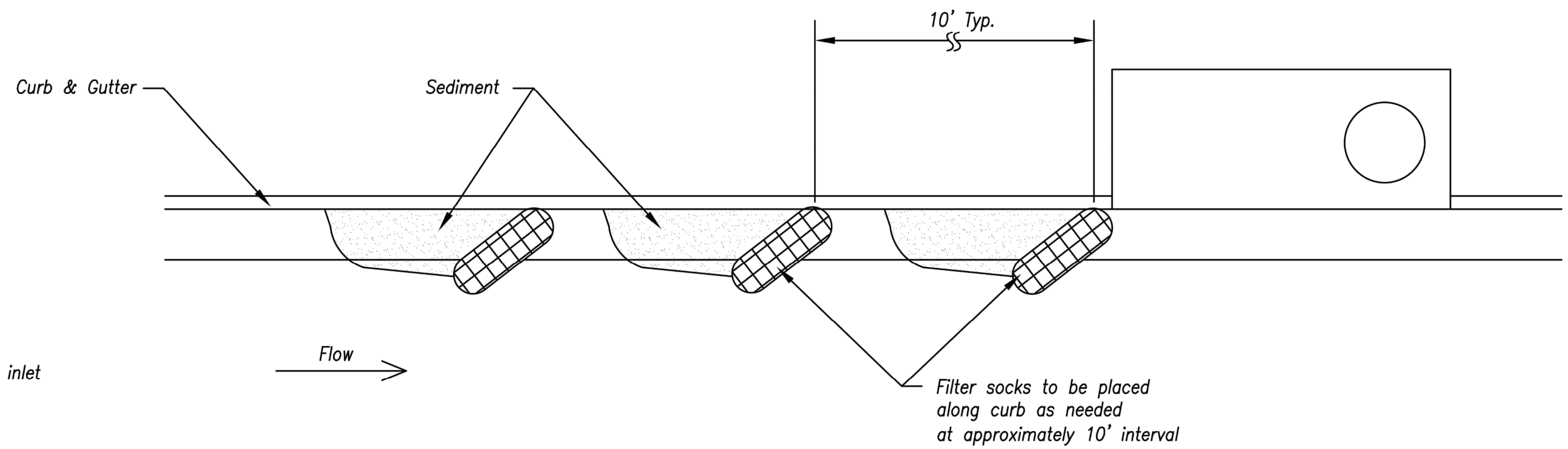
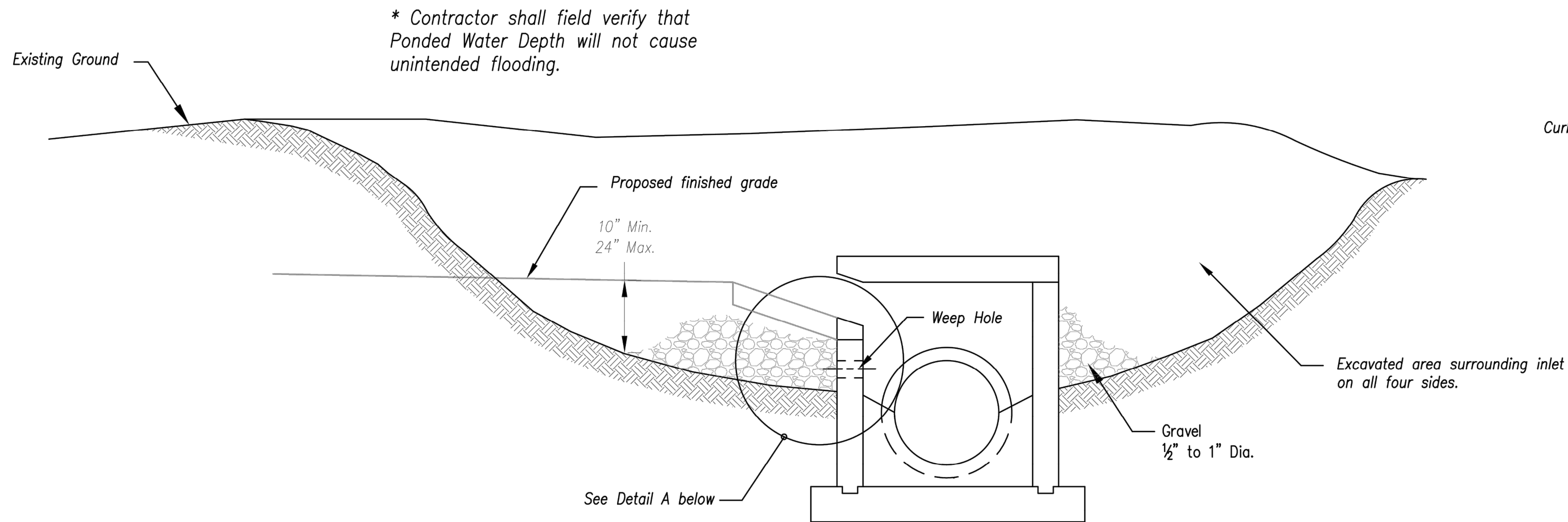
STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI
NW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING
EROSION CONTROL DETAIL SHEET

PROJ. NO.	A14-7067-1
DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1SIG_DET
SHEET	33
REV	0

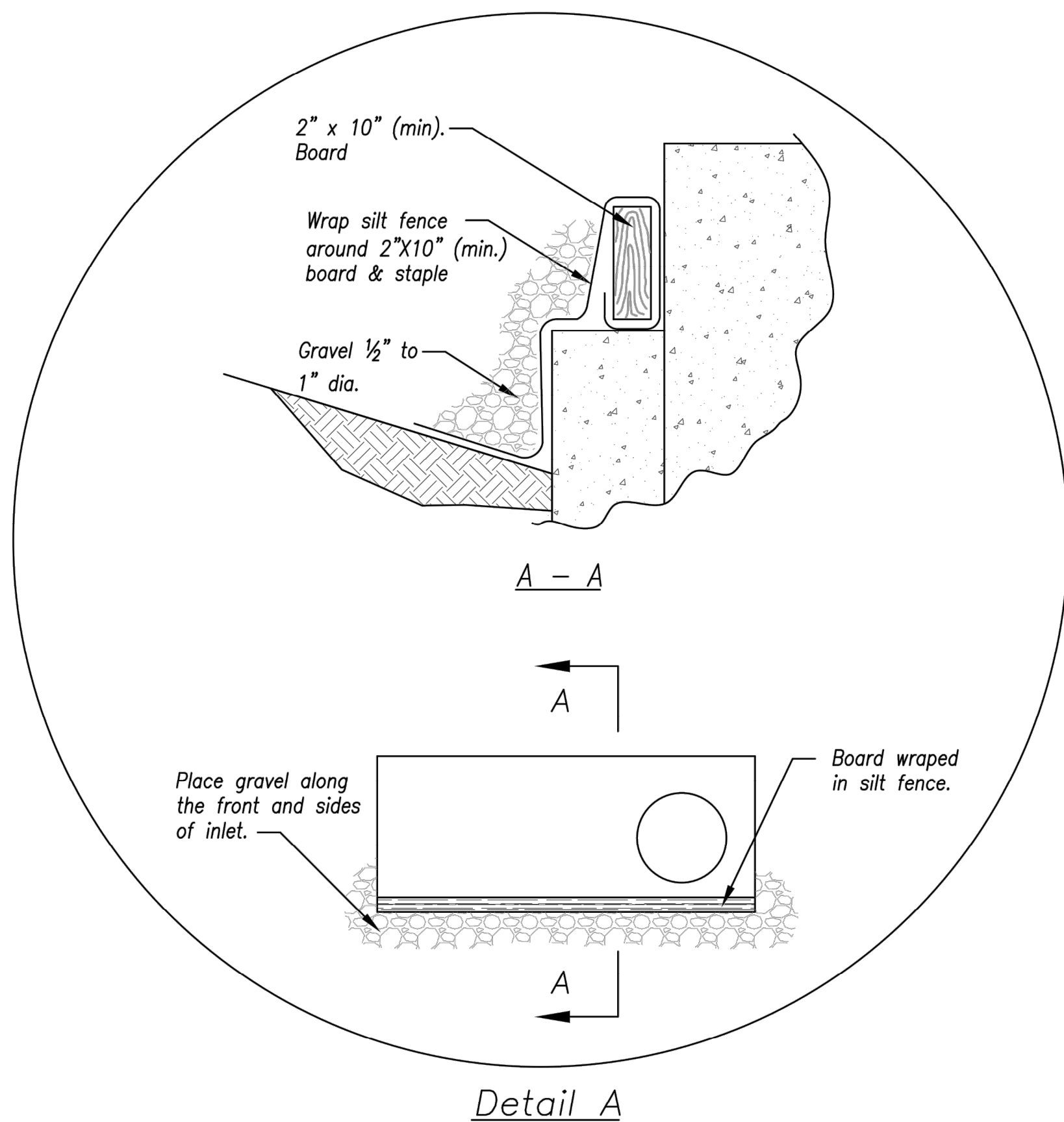


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KAW VALLEY ENGINEERING
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On Grade Curb Inlet Protection



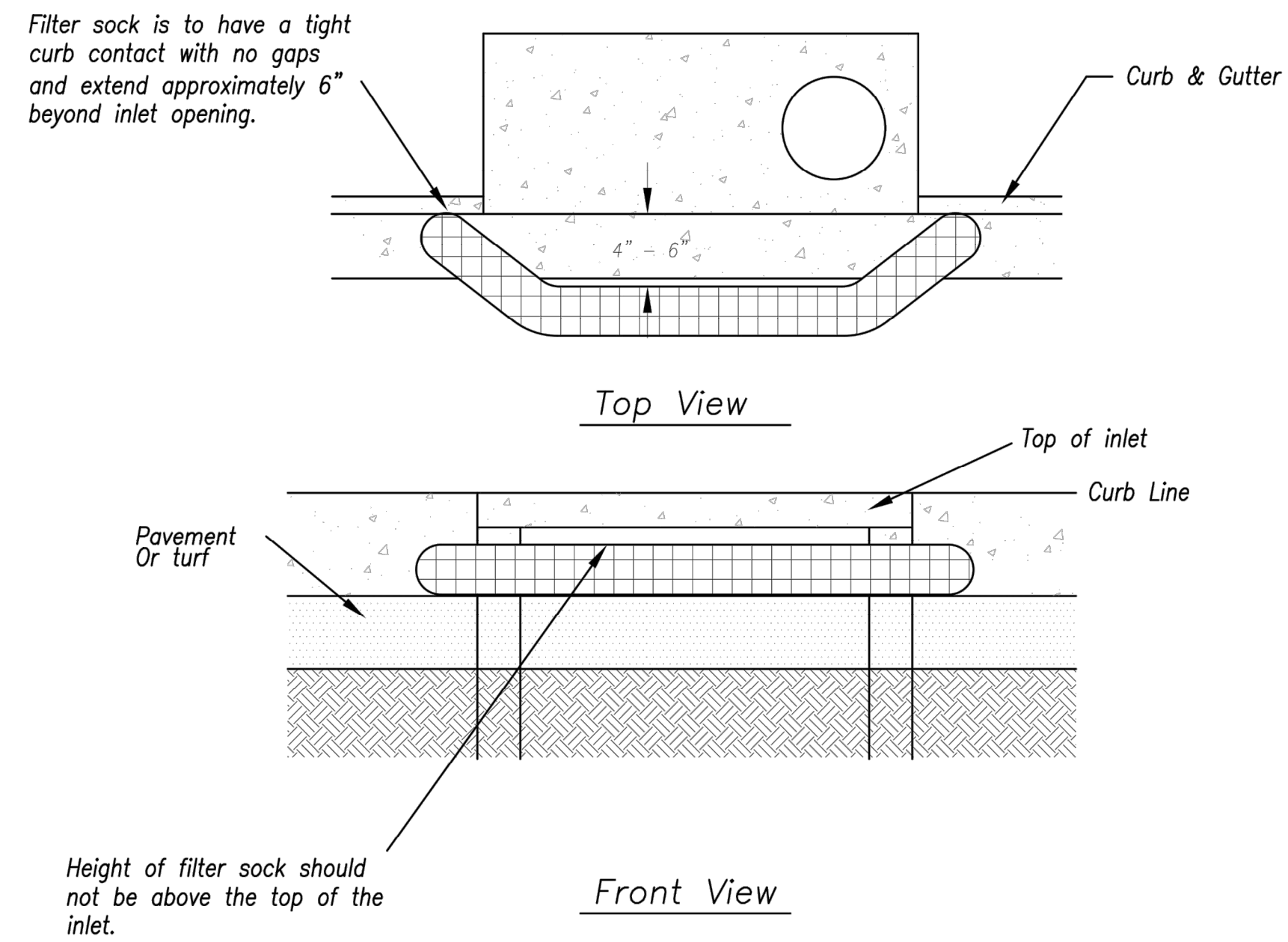
EARLY STAGE CURB INLET
(Open Box and Prior to Pouring Curb and Inlet Throat)

Notes:

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.
3. Contractor to field verify ponding water shall not create a traffic hazard.


Maintenance:

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 of installation.



Sump Inlet Sediment Filter

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

AMERICAN PUBLIC WORKS ASSOCIATION	
	
KANSAS CITY METRO CHAPTER	
CURB INLET PROTECTION	STANDARD DRAWING NUMBER ESC-06 ADOPTED: 10/24/2016



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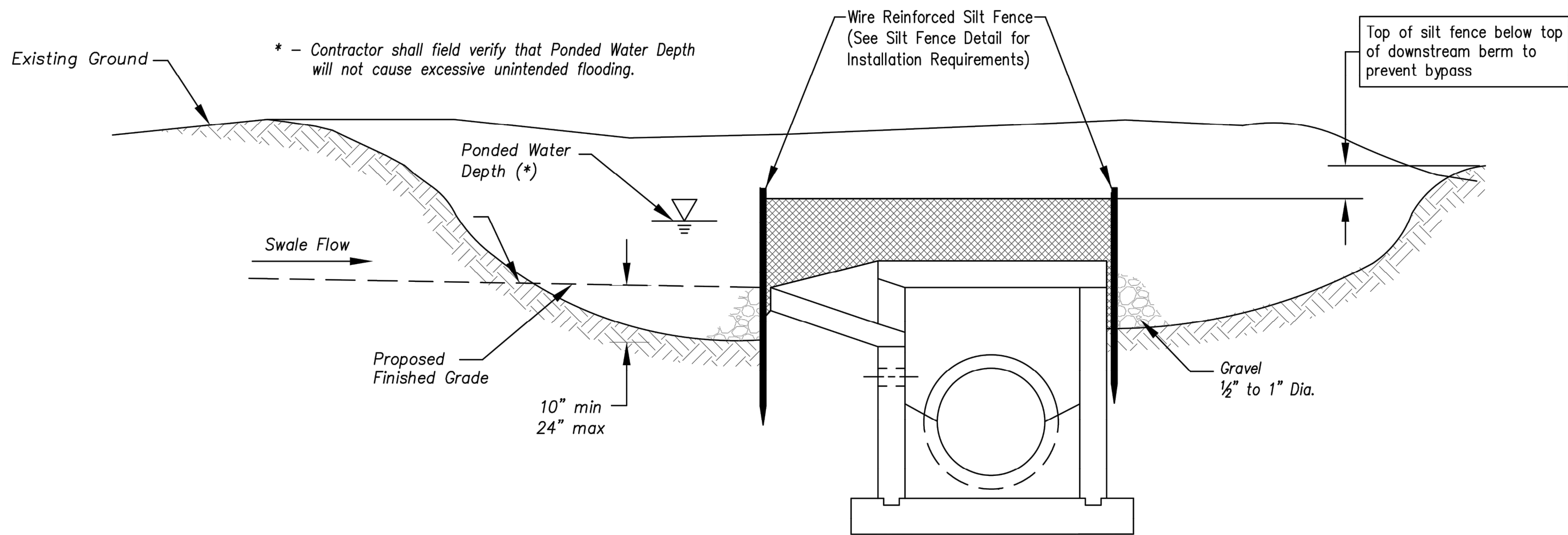
KAW VALLEY ENGINEERING

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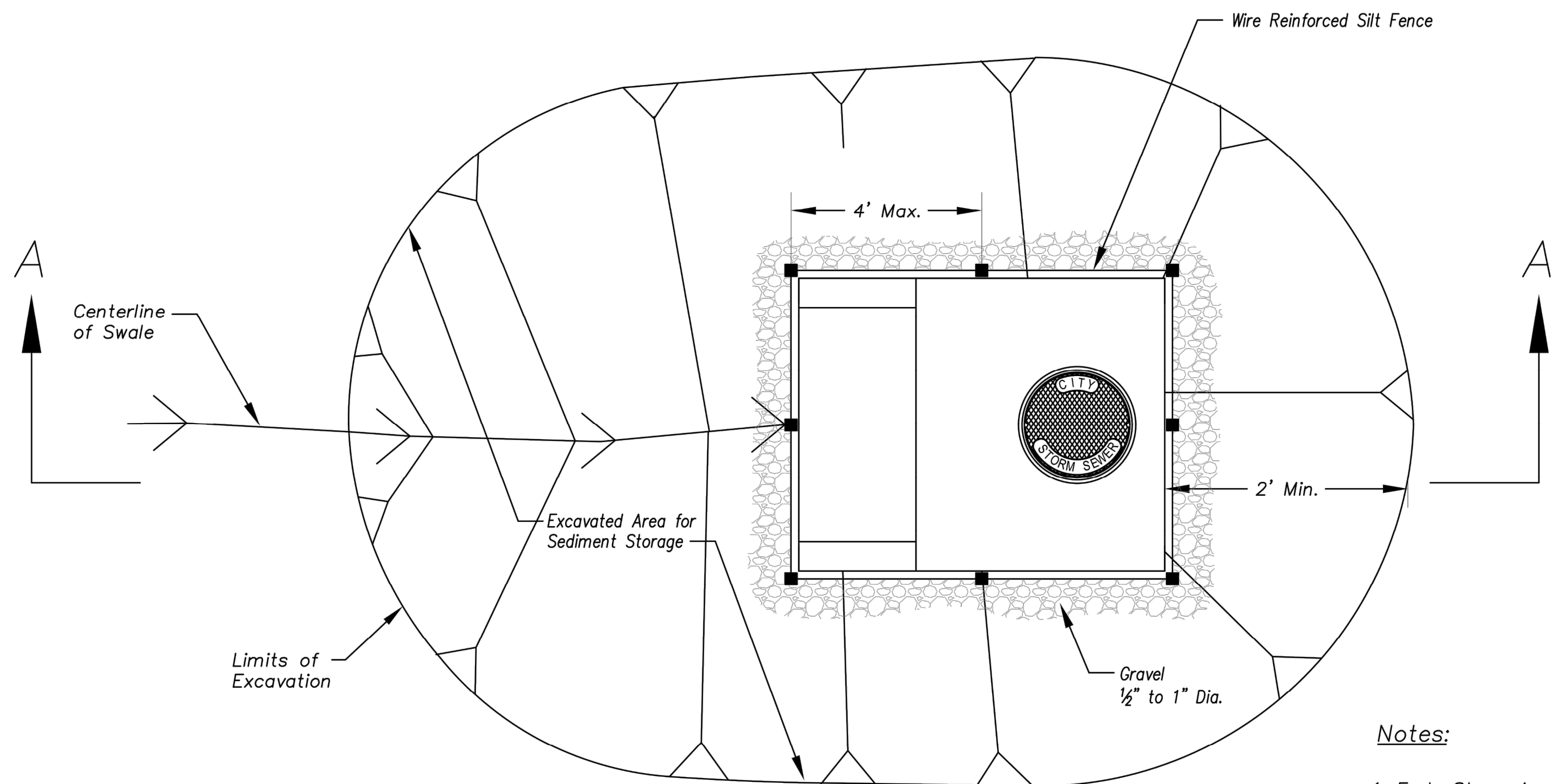
STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

NW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING
EROSION CONTROL DETAIL SHEET

PROJ. NO.	A14_7067-1
DESIGNER	LDO
DRAWN BY	JT/BKR
CFN	7067-1SIG_DET
SHEET	34
REV	0



Section A-A
Not to Scale

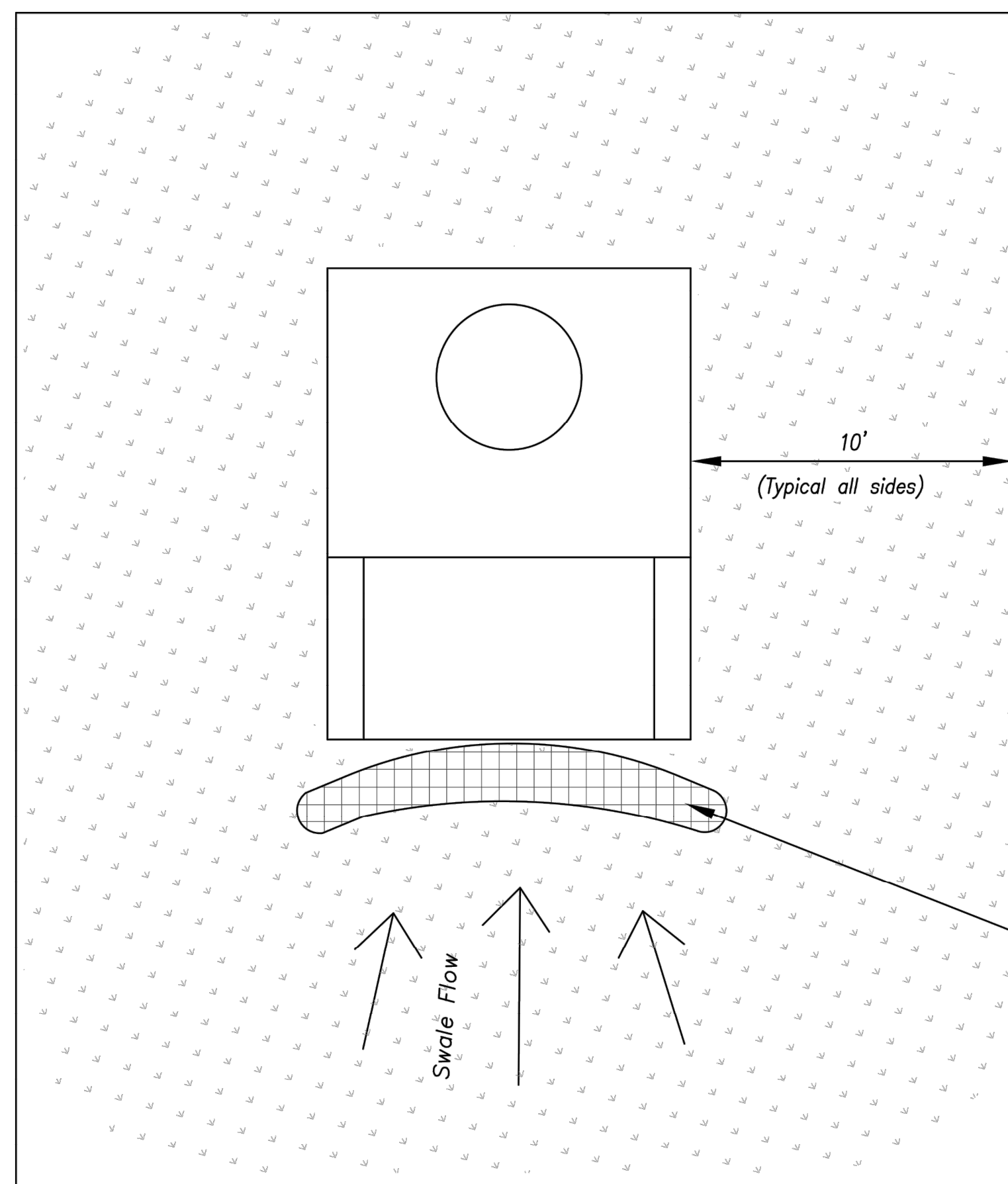


Plan
Not to Scale

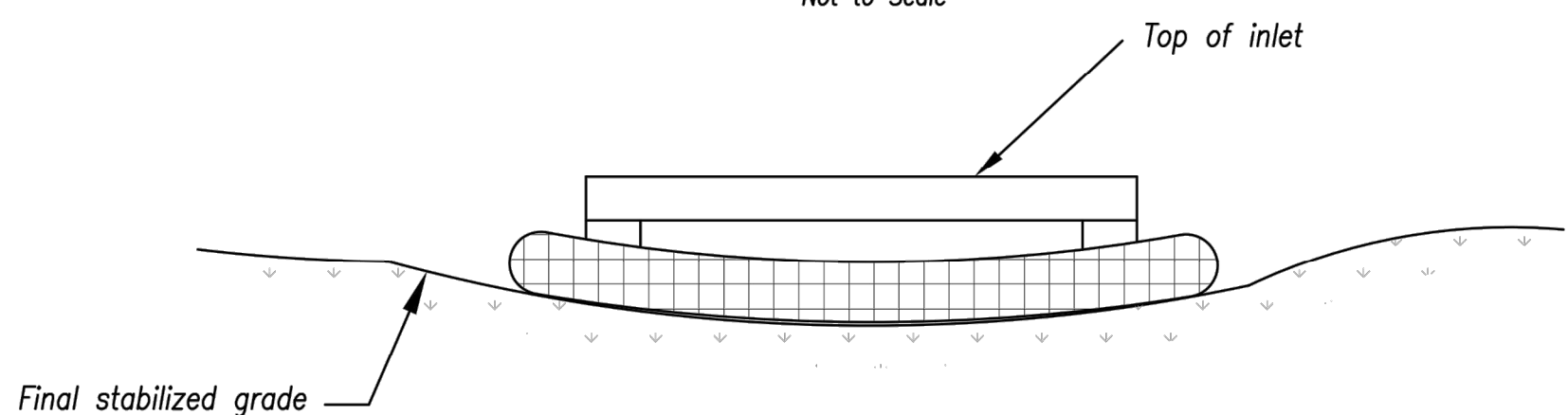
EARLY STAGE AREA INLET
(All open boxes and inlets not at final grade)

Notes:

1. Early Stage Area Inlet Sediment Barrier to be installed immediately after inlet or junction box is constructed.
2. Silt fence shall remain in place until excavated area is removed and Late Stage Area Inlet is being installed.
3. Backfill excavated area ONLY after final grading of the site. Stabilization of the site is to immediately follow.
4. Wire reinforced silt fence may be used in place of silt fence attached to wood frame.



Plan
Not to Scale




Front View

LATE STAGE AREA INLET
(Area inlets at final grade and existing inlets)

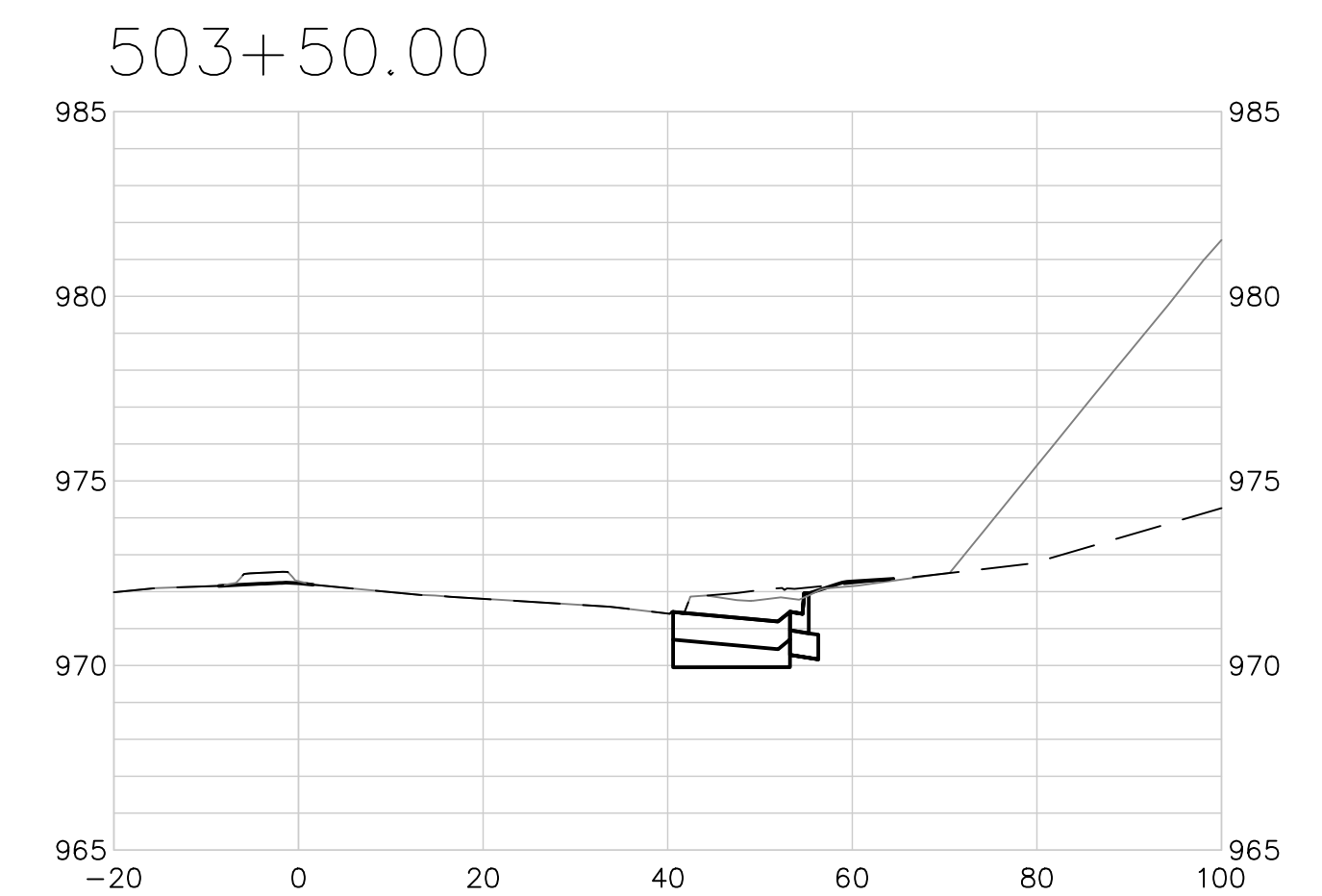
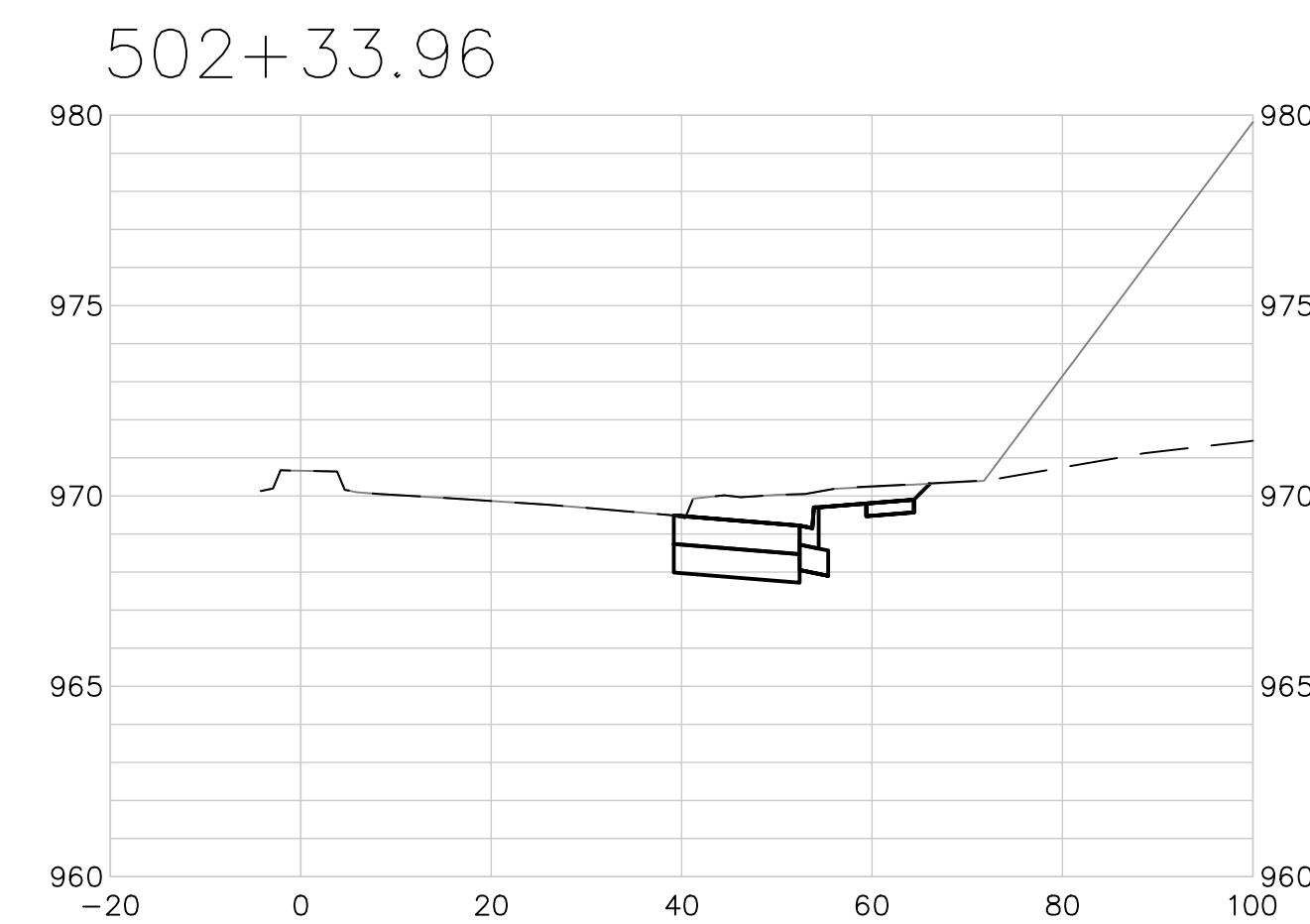
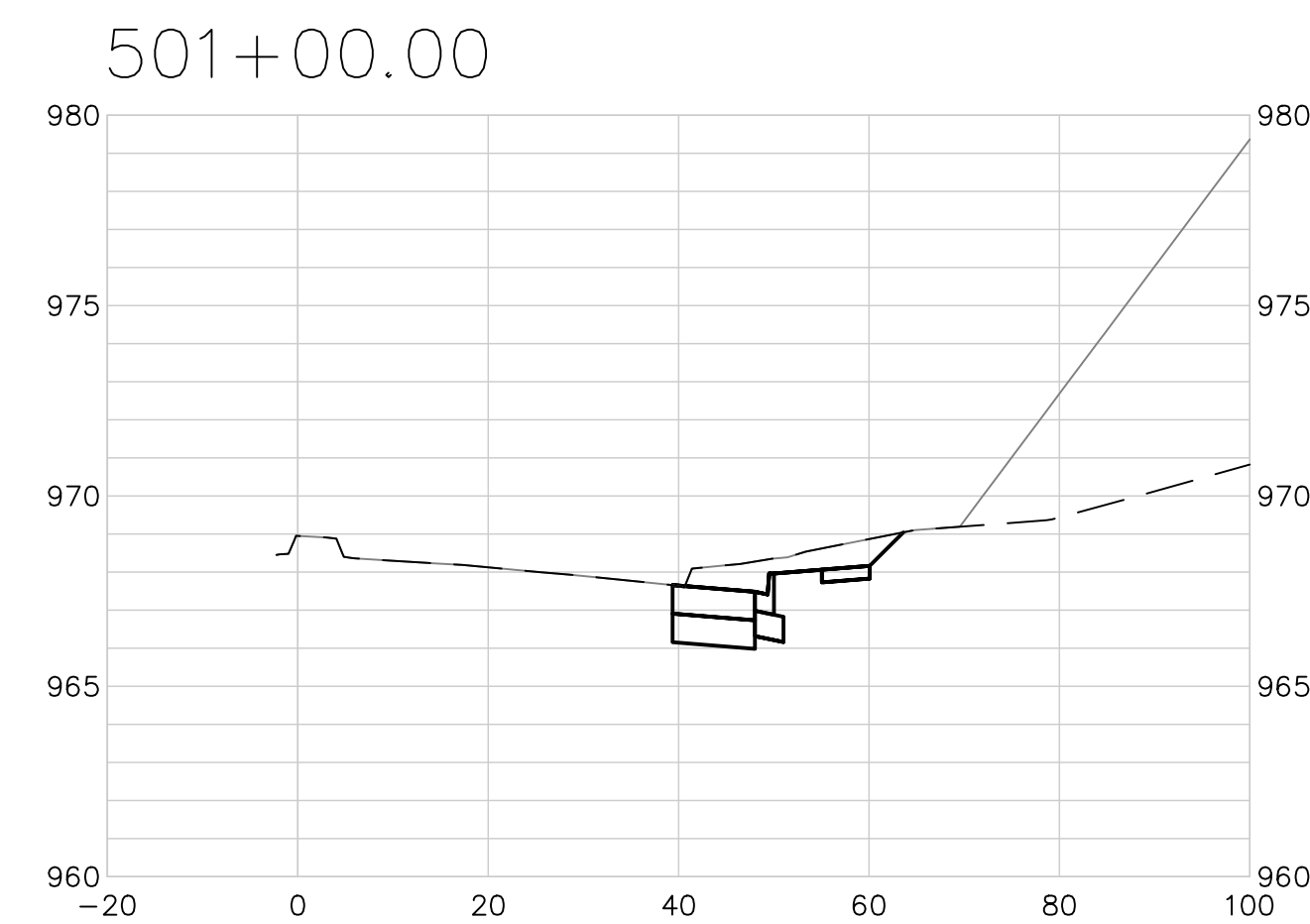
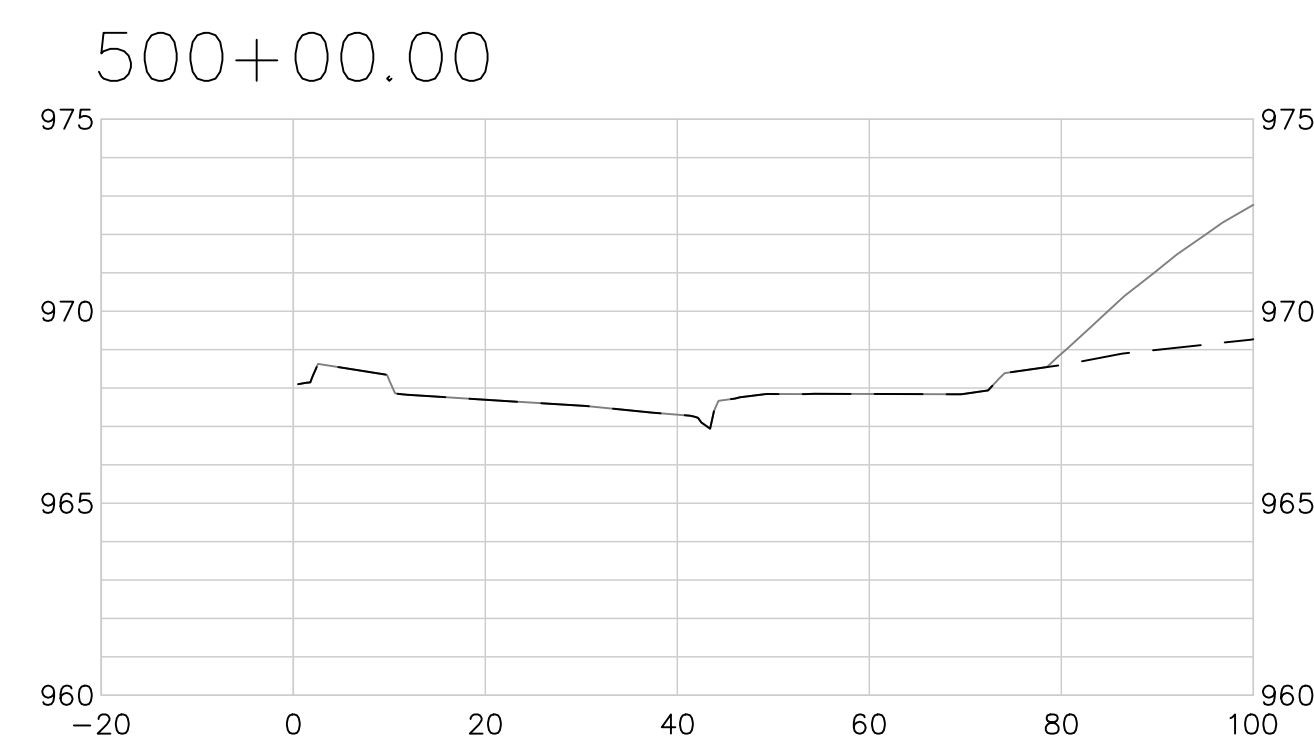
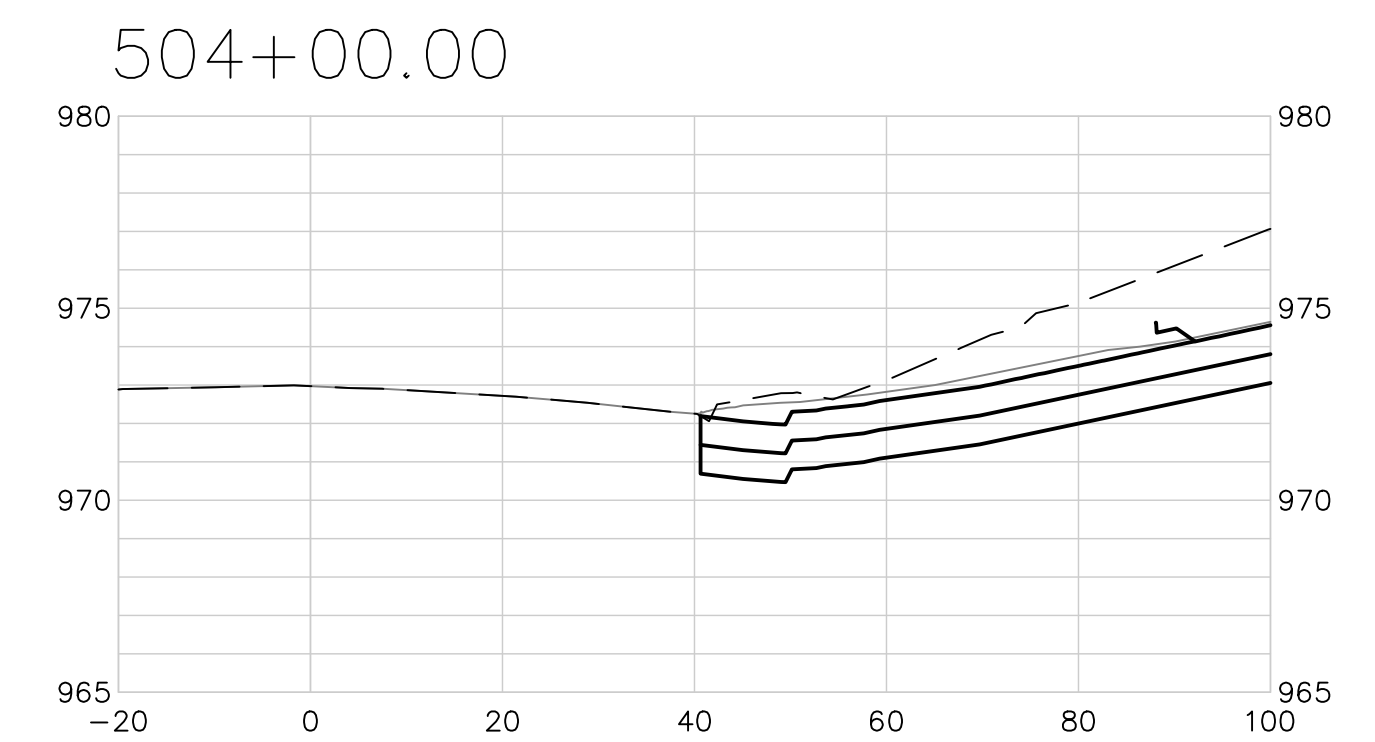
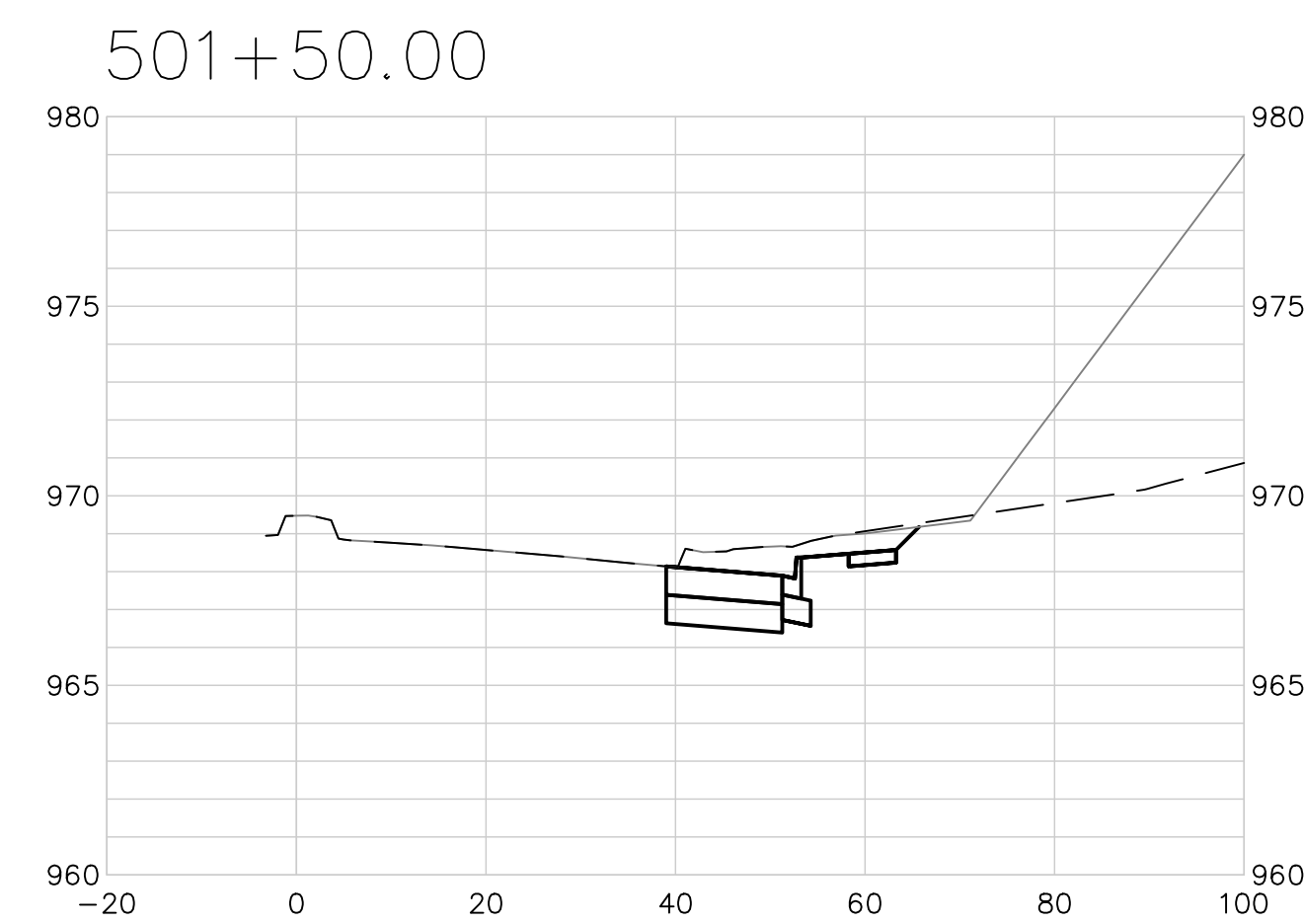
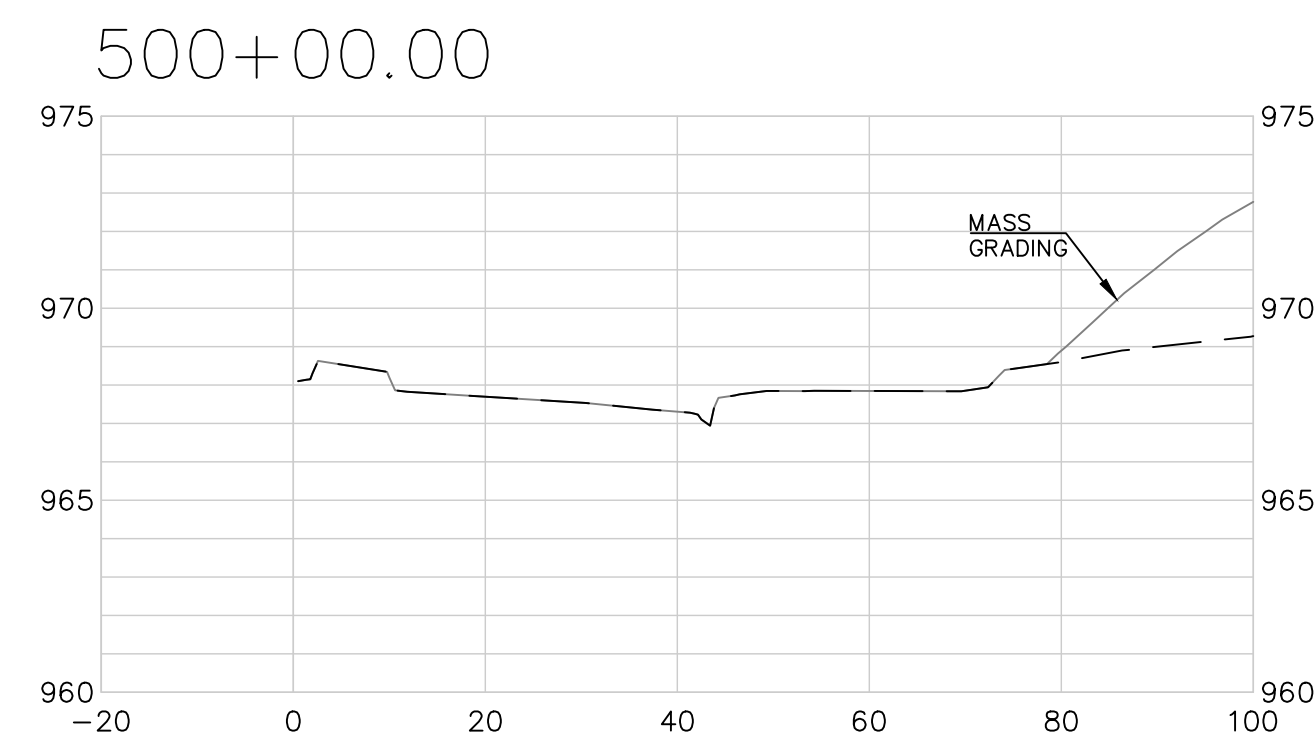
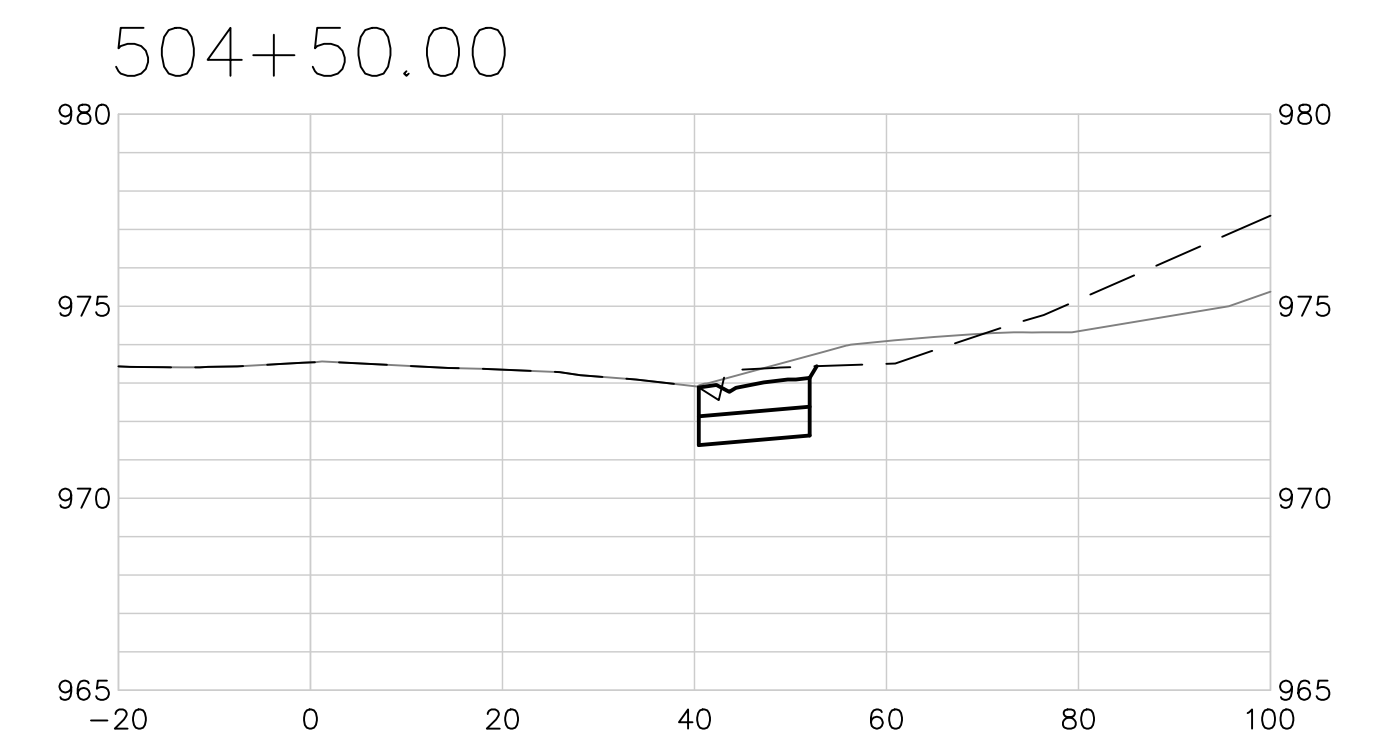
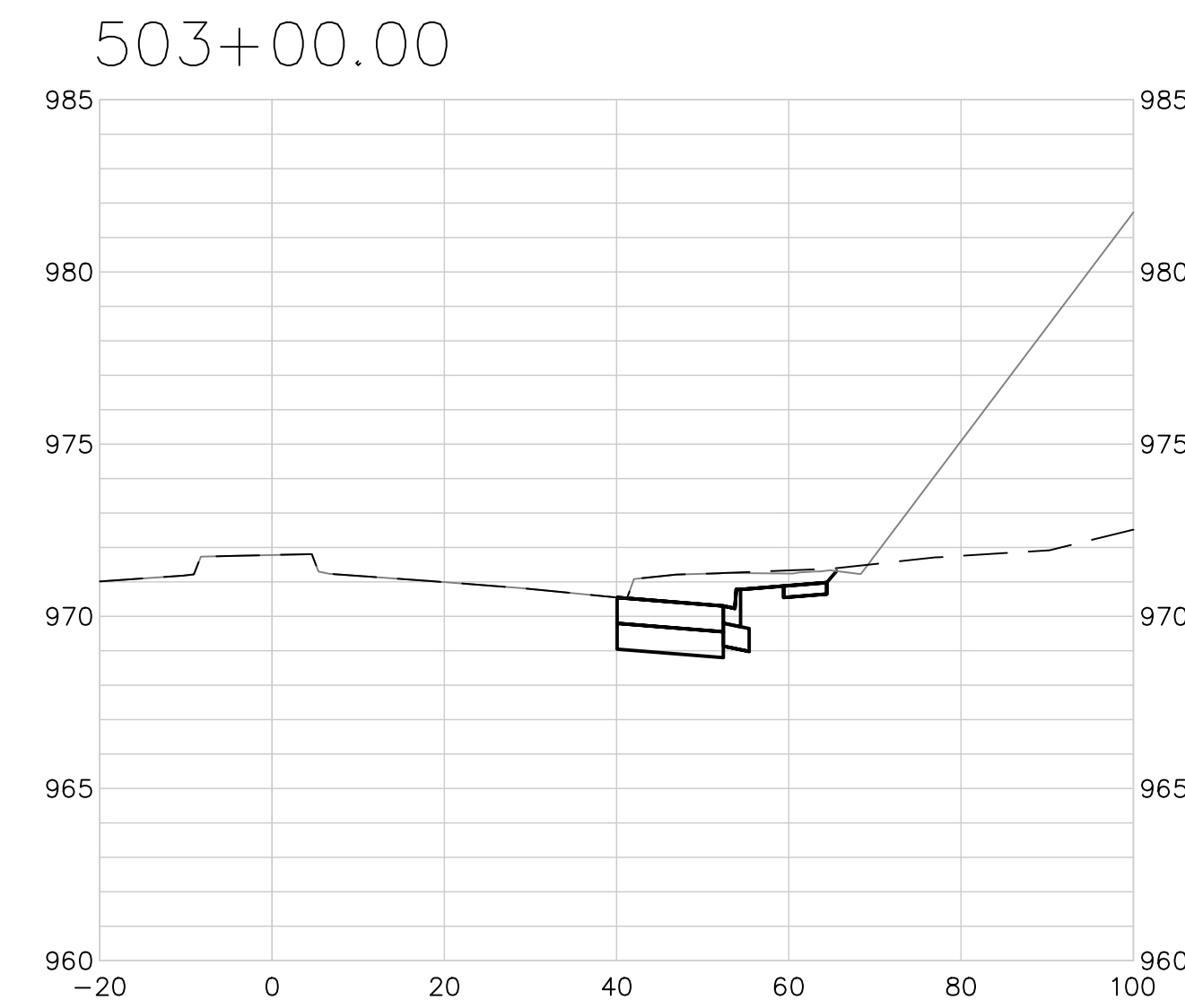
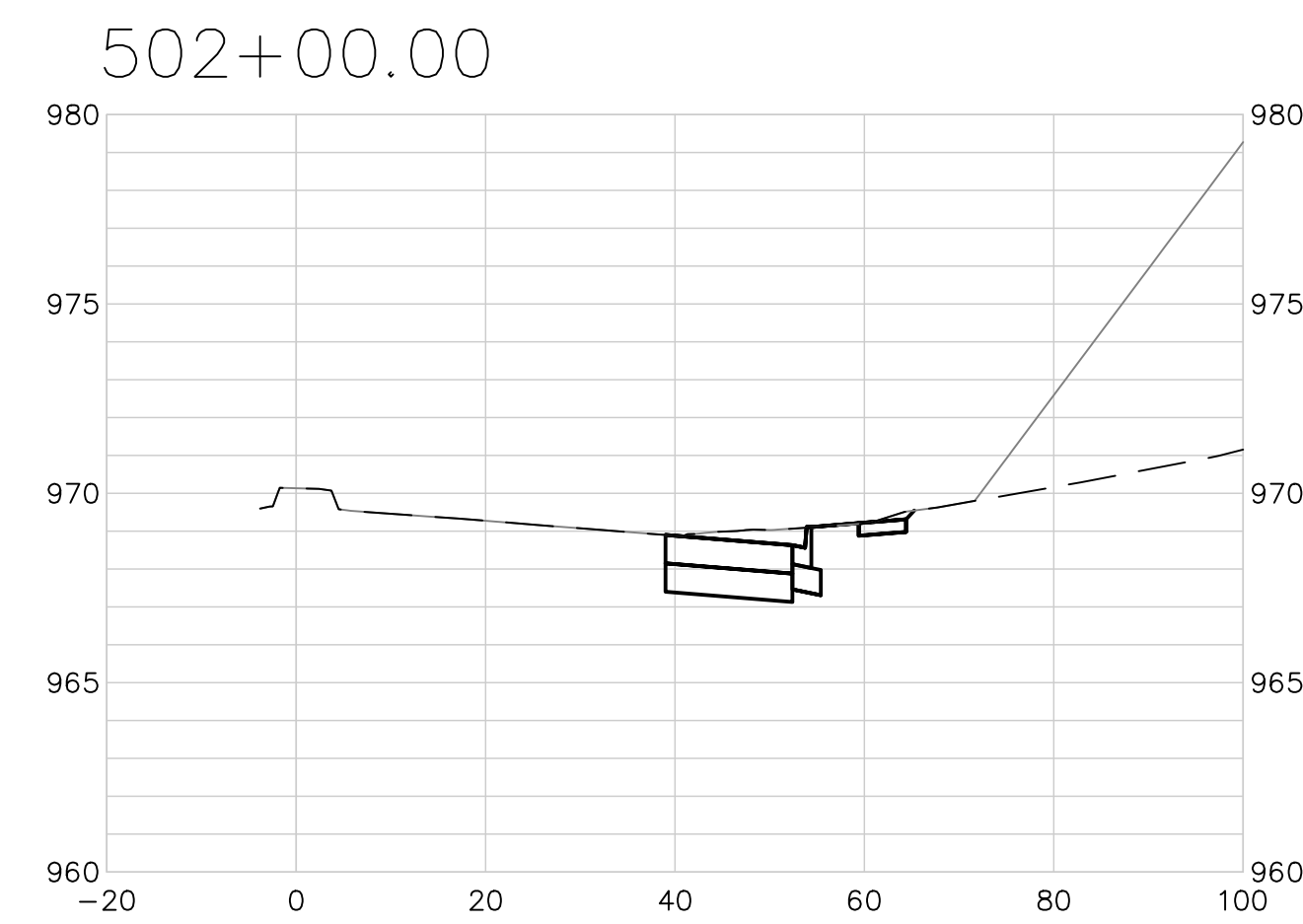
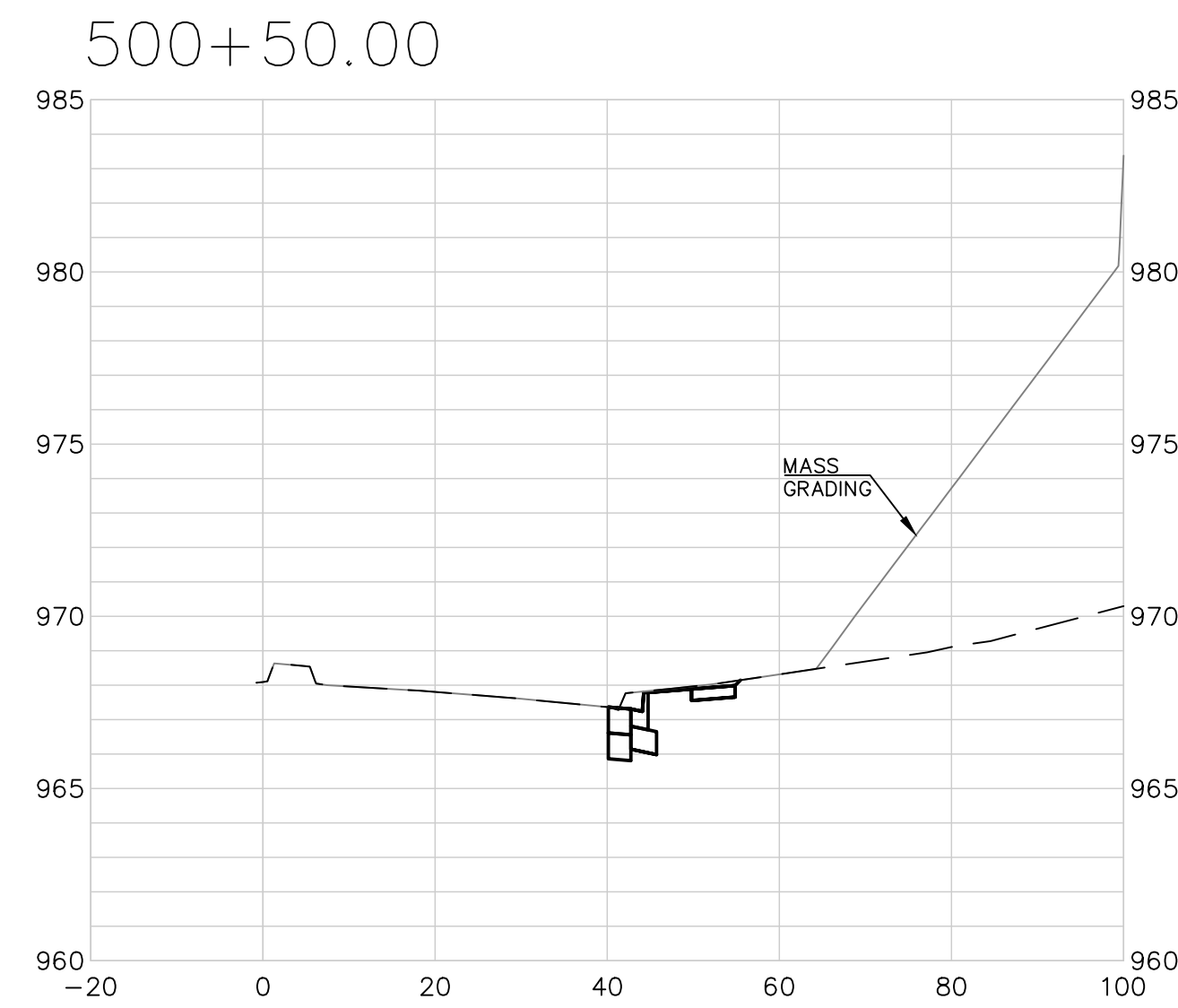
Maintenance:

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 of installation.

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

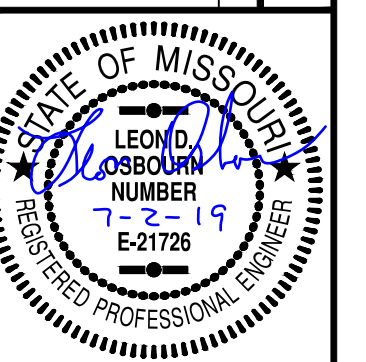
AMERICAN PUBLIC WORKS ASSOCIATION	
	KANSAS CITY METRO CHAPTER
AREA INLET AND JUNCTION BOX PROTECTION	STANDARD DRAWING NUMBER ESC-07 ADOPTED: 10/24/2016

STATE OF MISSOURI LEON D. OSBOURN ENGINEER MO # 021726 KAW VALLEY ENGINEERING 2319 N. JACKSON P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH. (785) 762-5040 FAX (785) 762-7744 joe@kveeng.com www.kveeng.com KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING EXPRESS 12/31/19	5-23-19	INITIAL ISSUE	LDO	JT	LDO	
	0	REV	DATE	DESCRIPTION	DSN	DWN
	STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI NW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING EROSION CONTROL DETAIL SHEET					
	PROJ. NO. A14_7067-1 DESIGNER LDO DRAWN BY JT/BKR CFN 7067-1SIG_DET SHEET 35 REV 0					

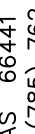


SCALE:
1"=20' HORIZ.
1"=5' VERT.

REV	DATE	DESCRIPTION	DSN	DWN	CHK
0	5-23-19	INITIAL ISSUE	LDO	JT	LDO



LEON D. OSBOURN
ENGINEER
MO # 021726

 **KAW VALLEY ENGINEERING**

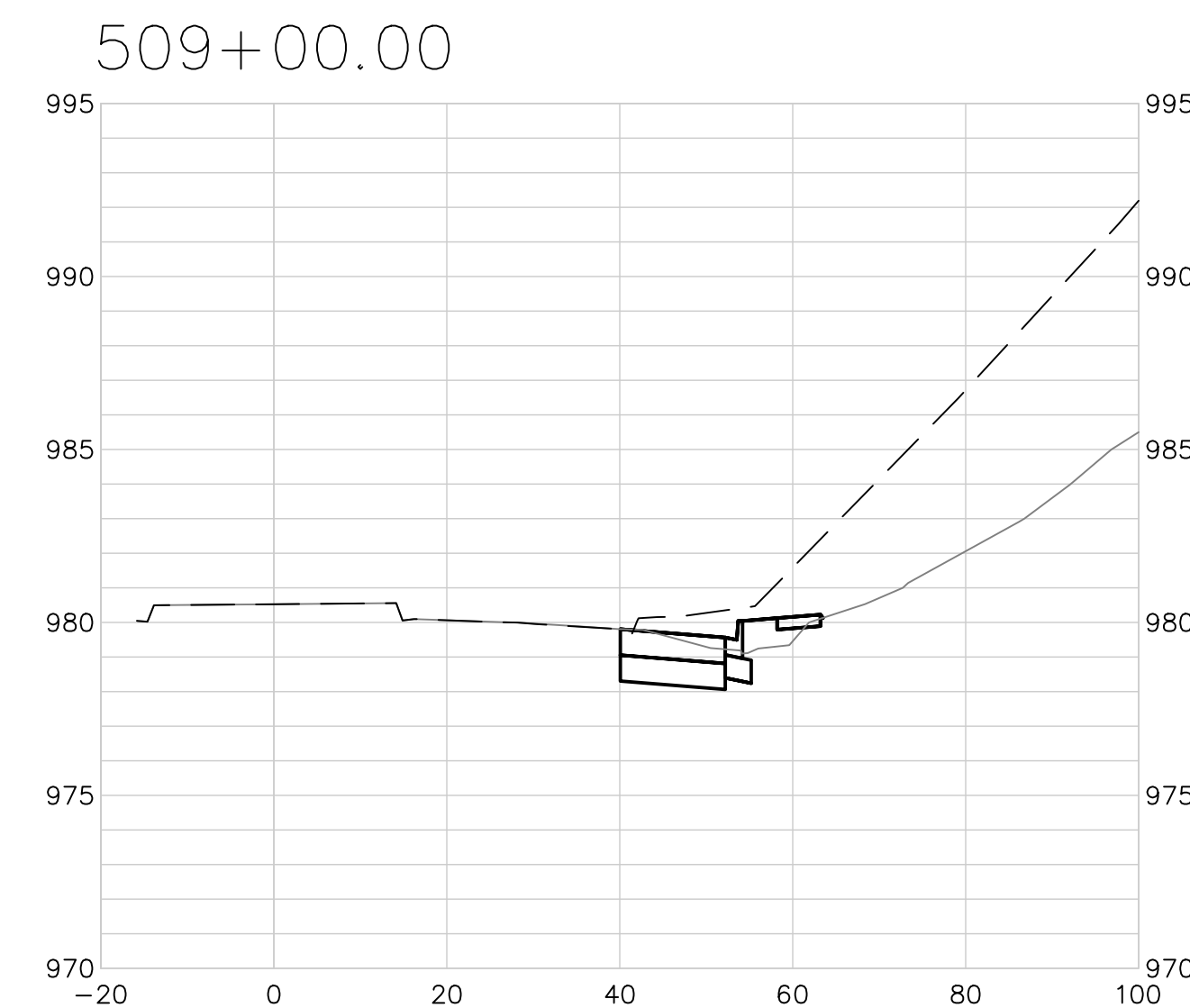
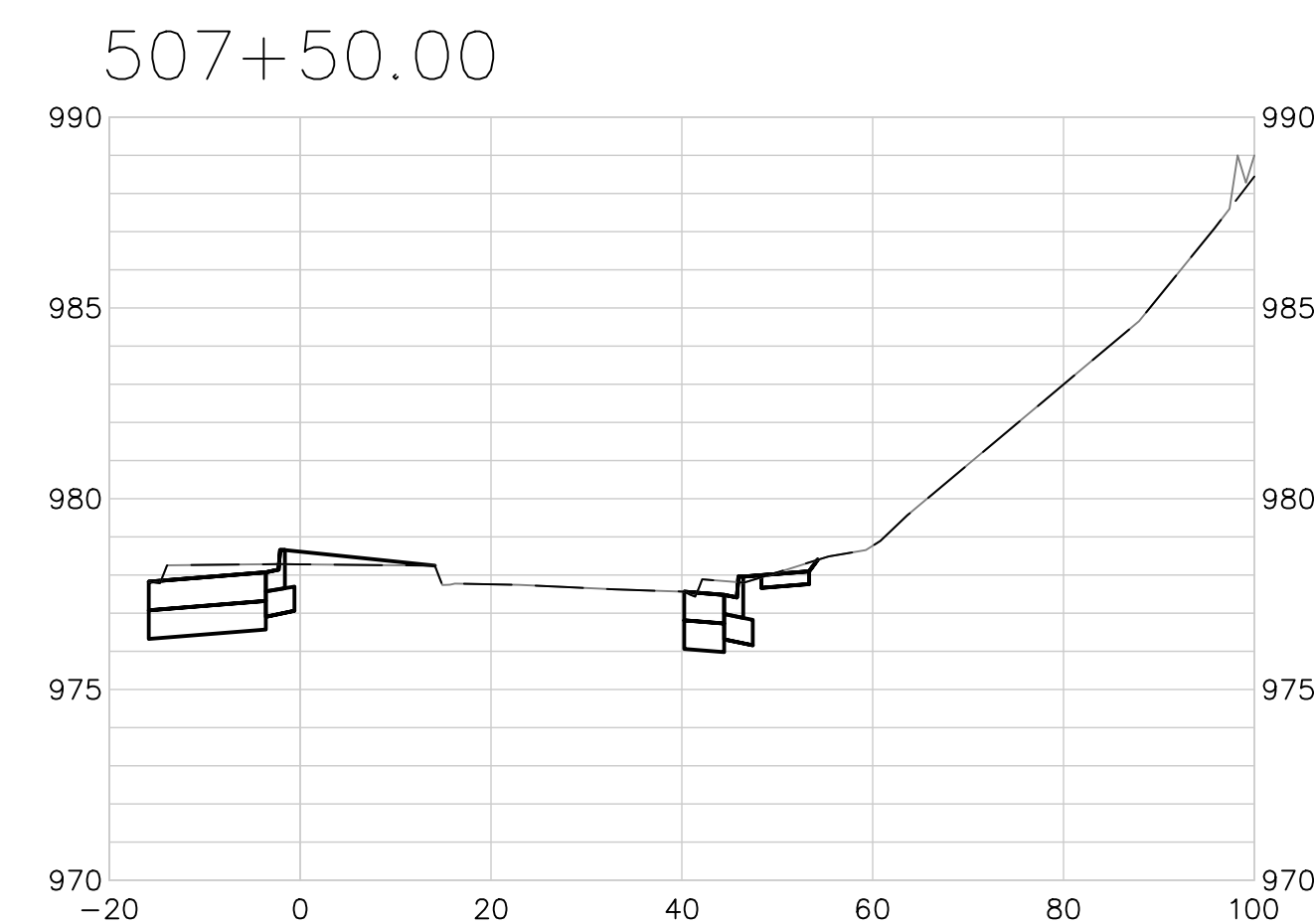
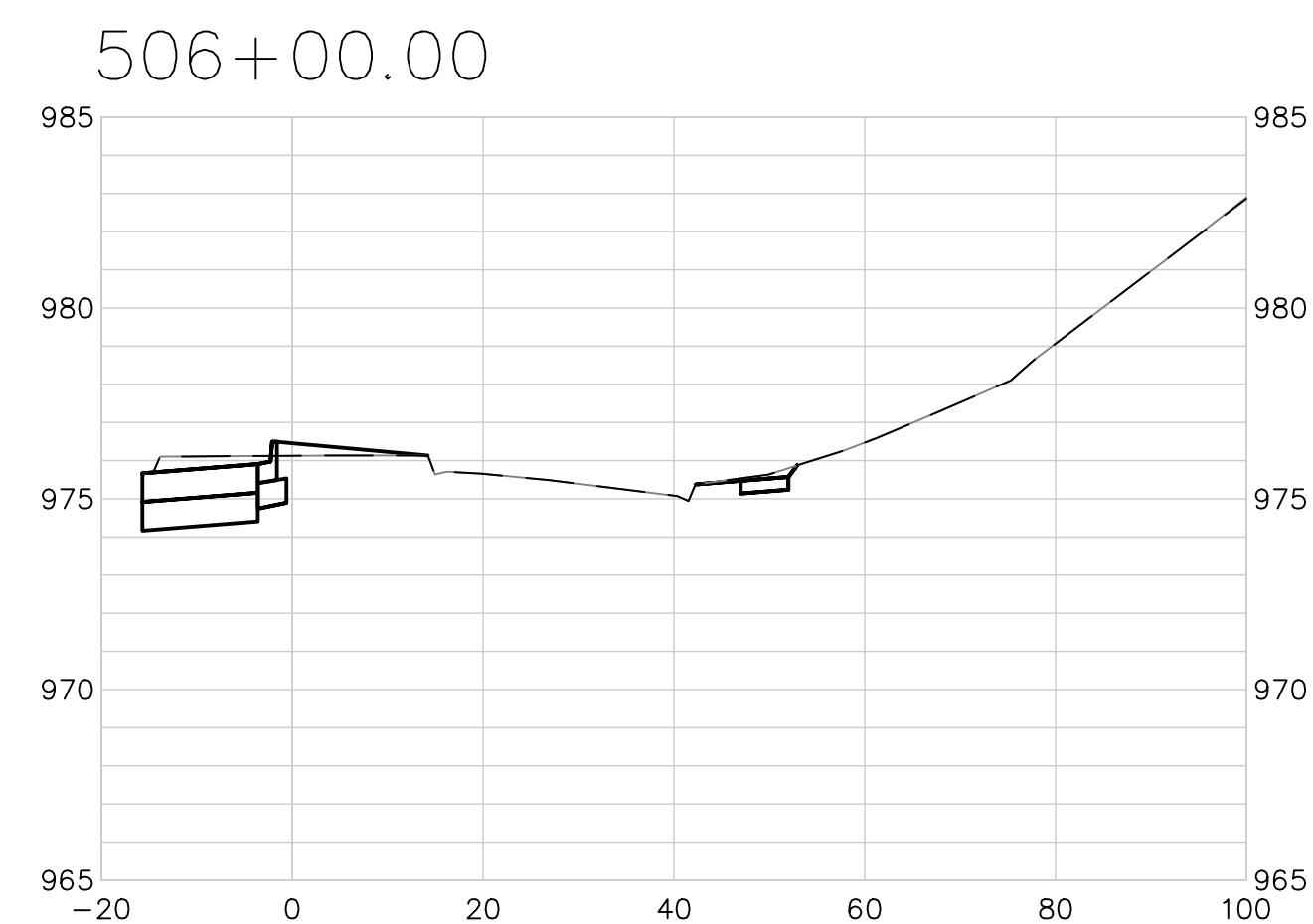
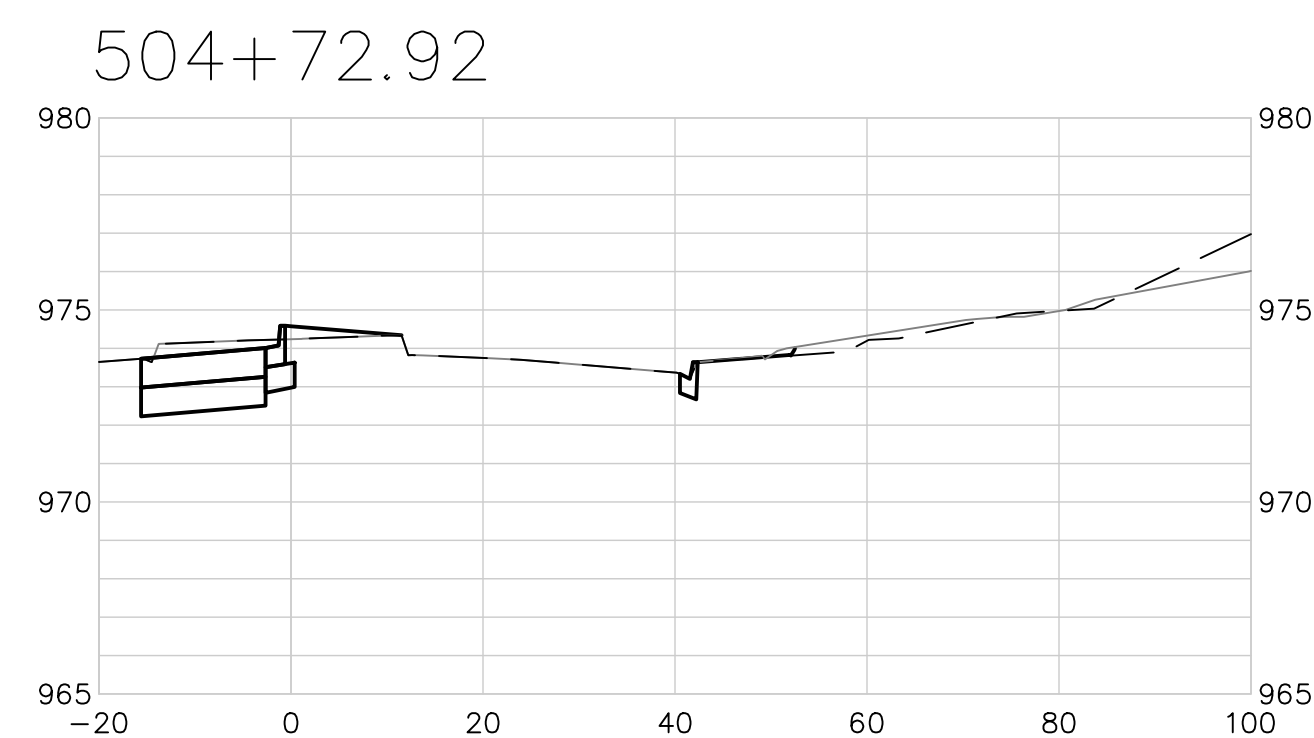
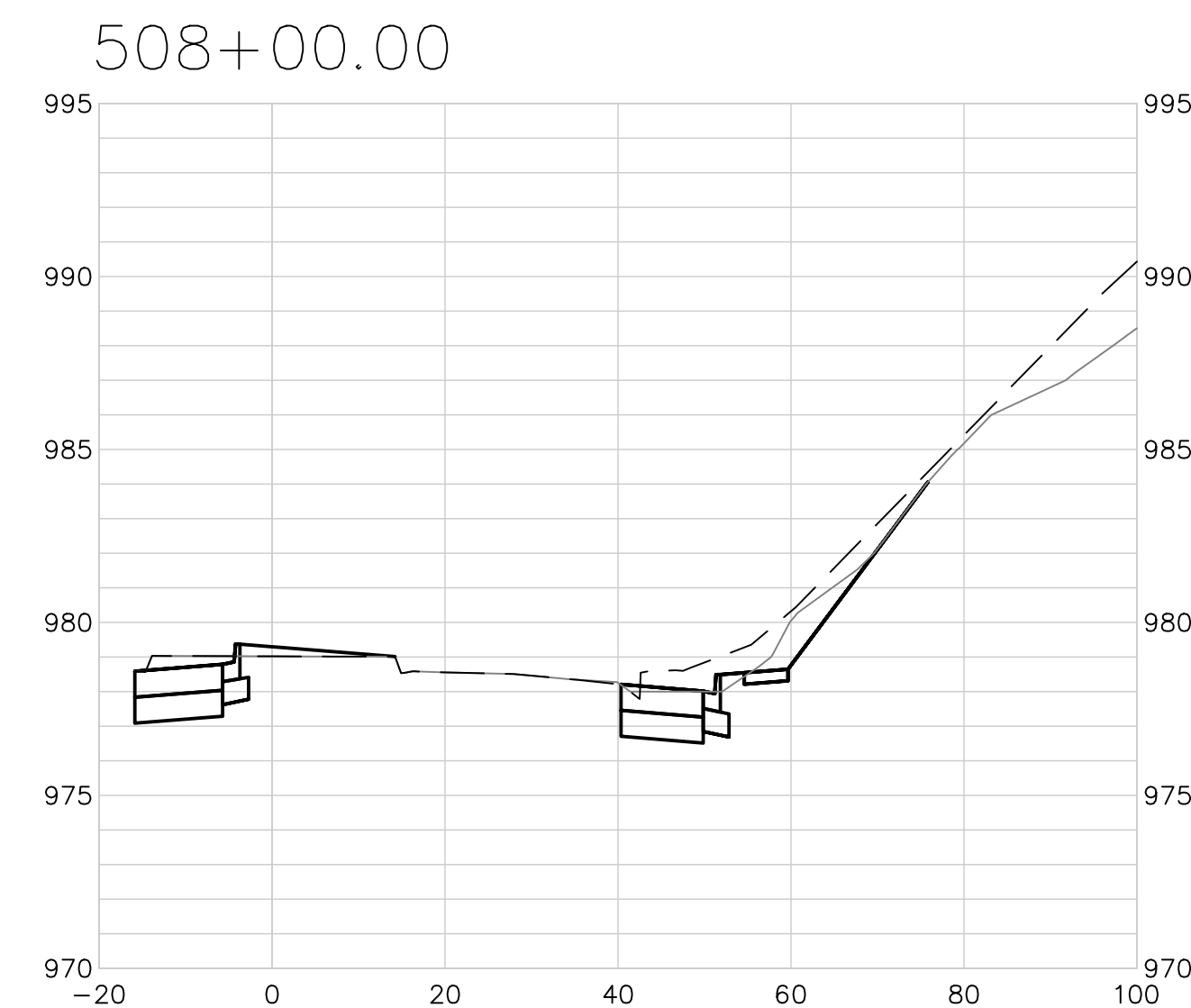
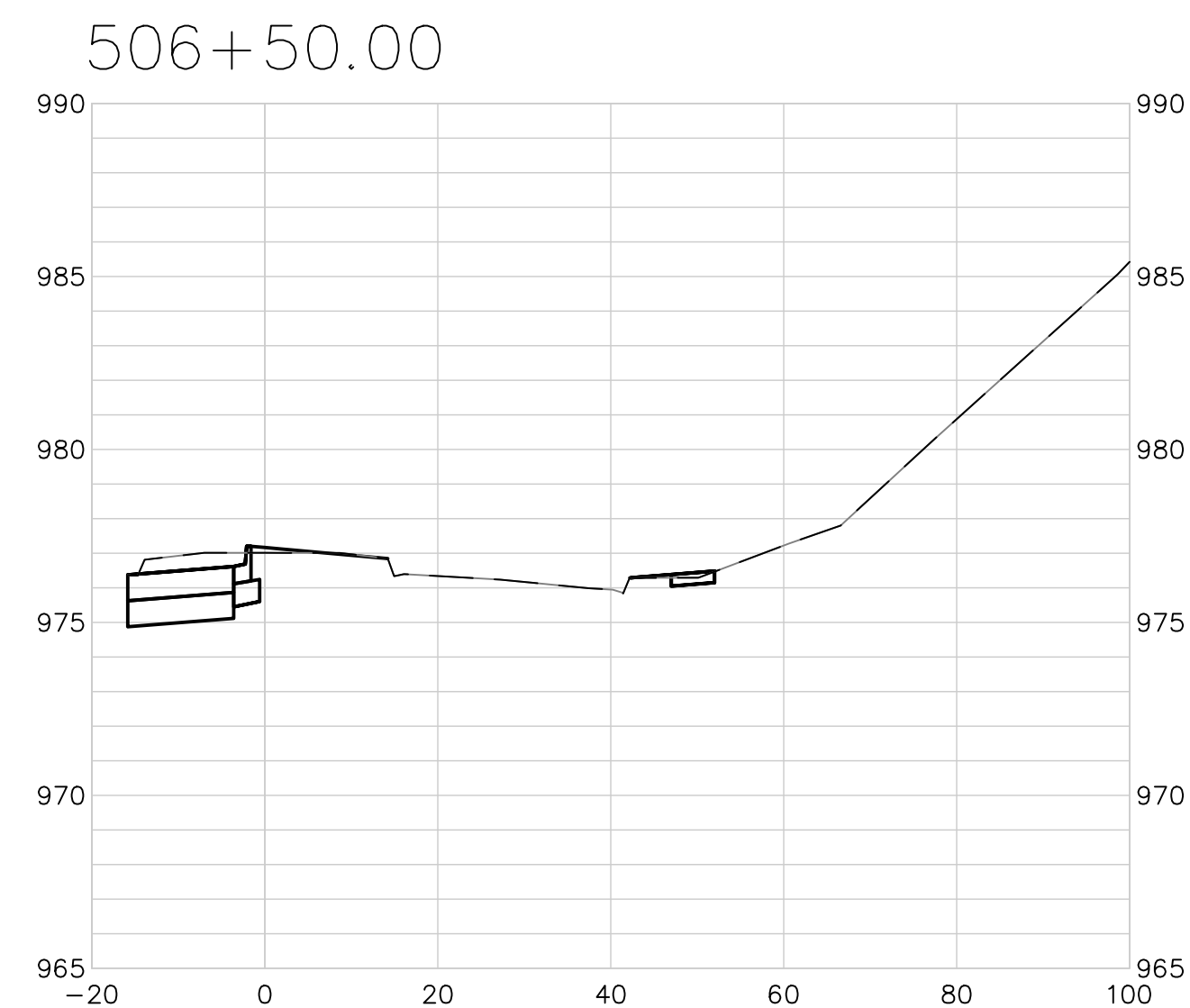
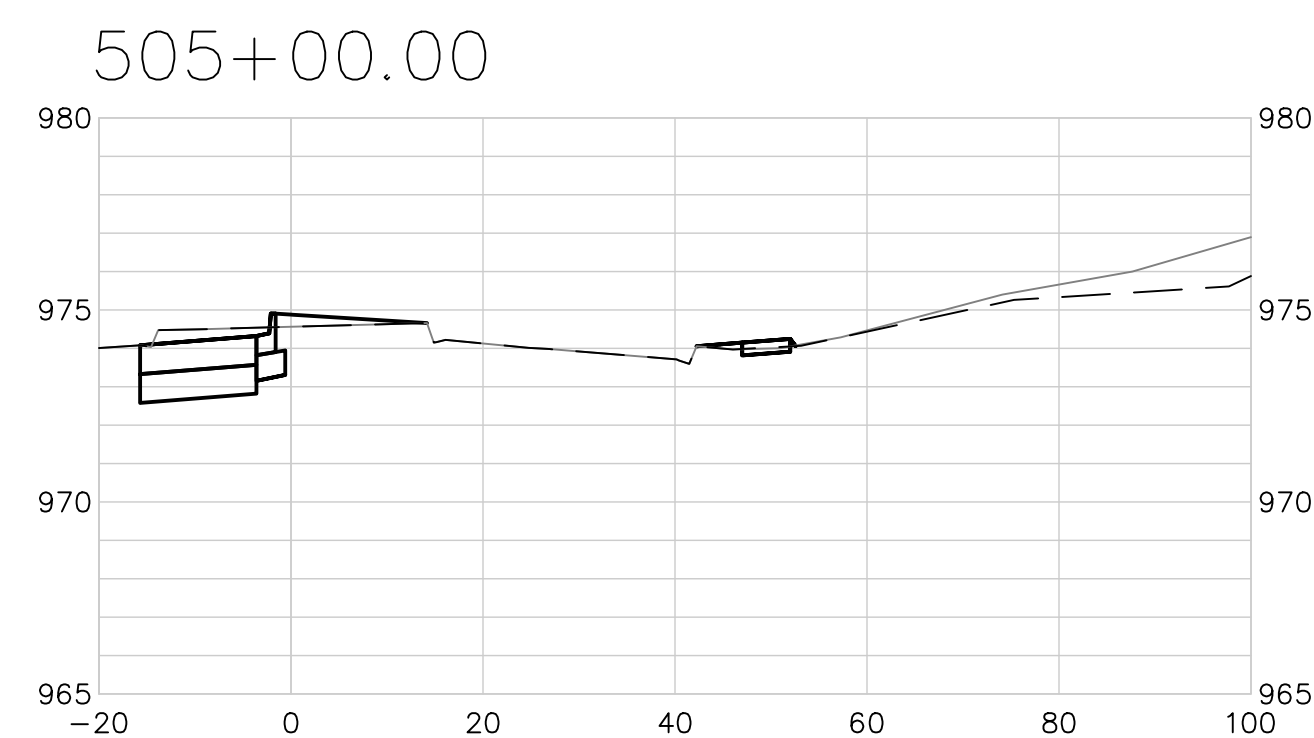
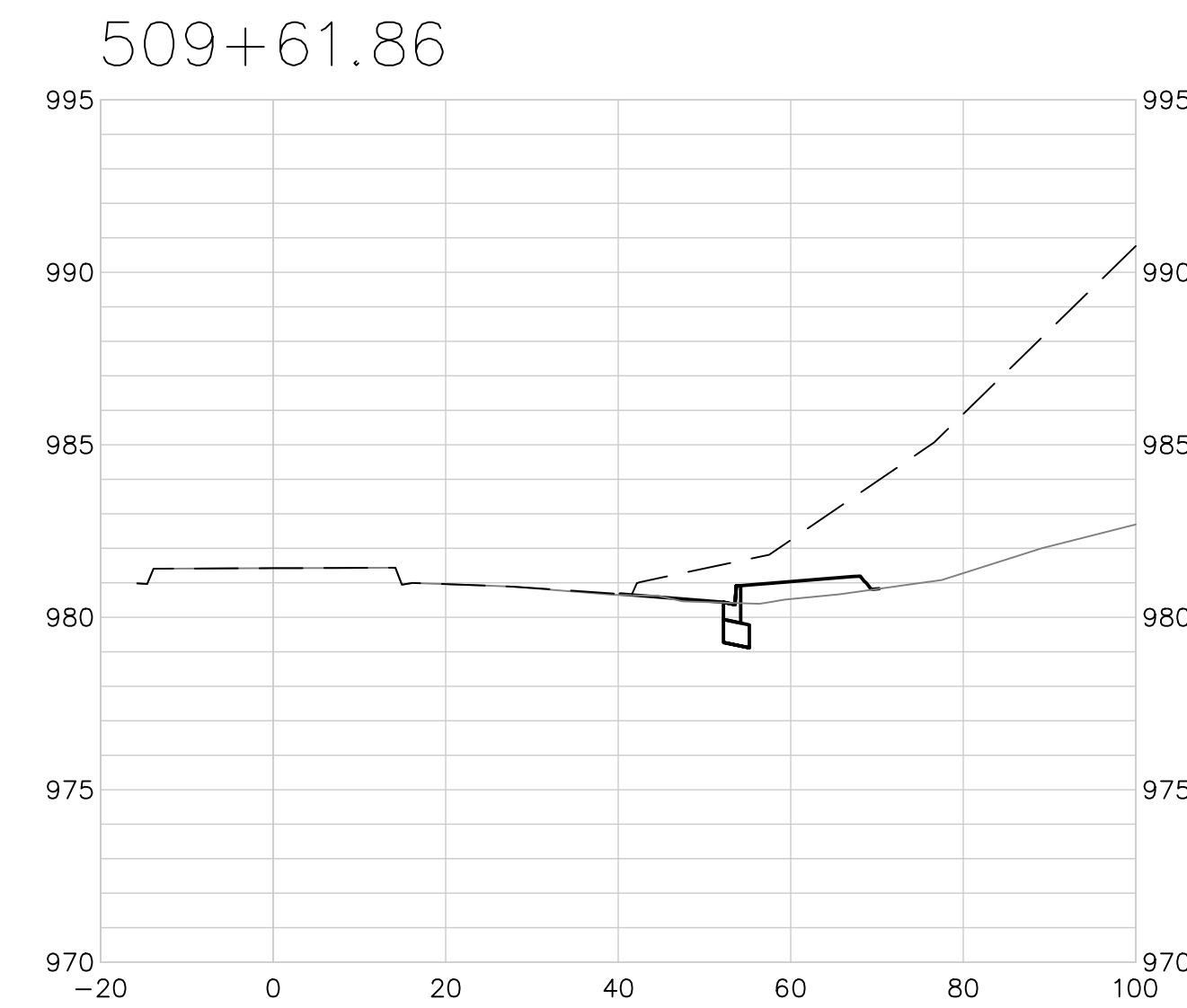
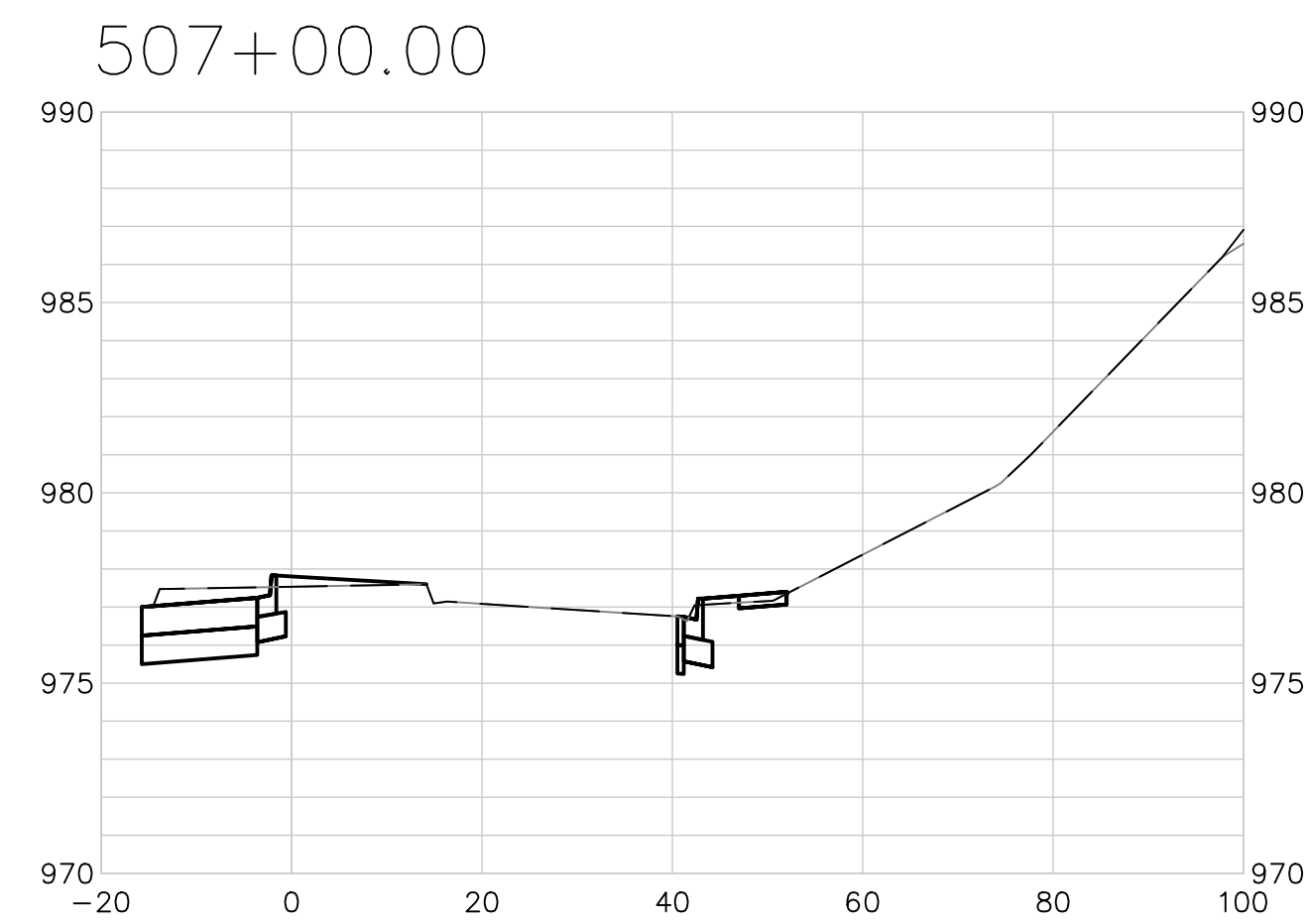
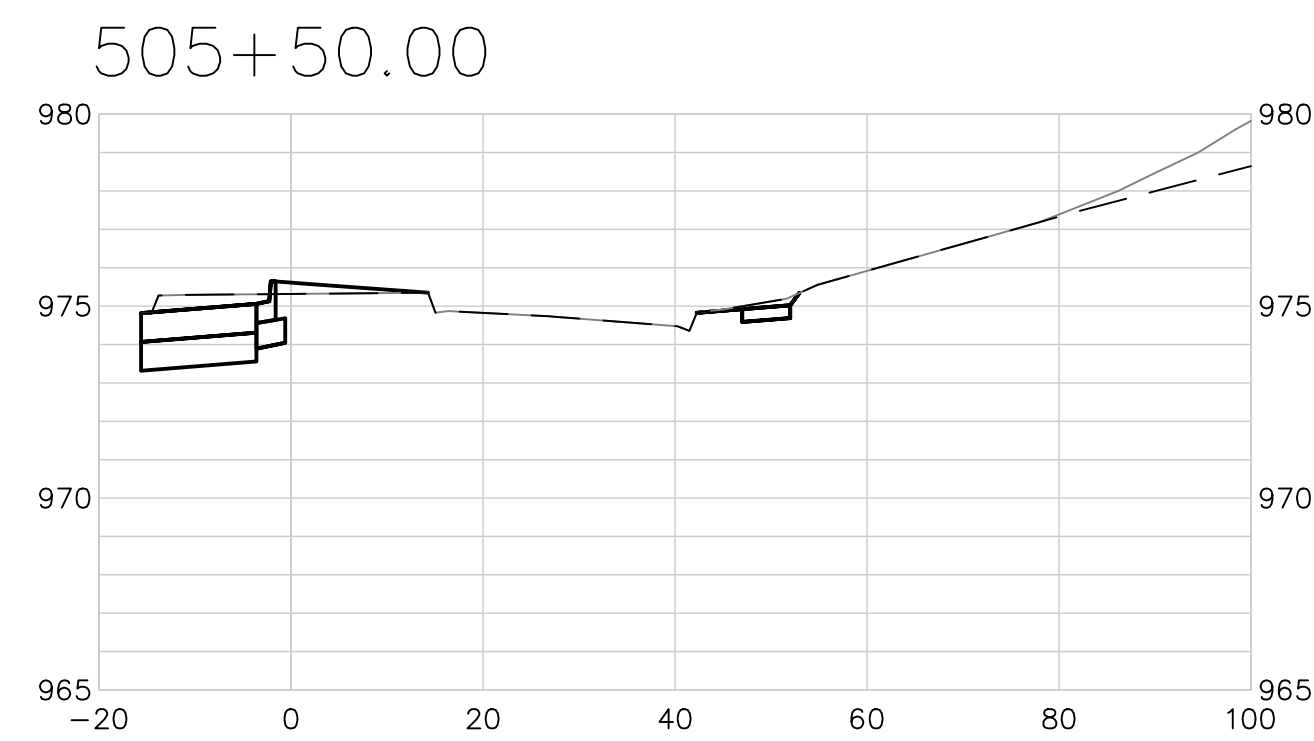
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.
EXPIRES 12/31/19

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

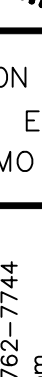

NW PRYOR RD SIGNAL IMPROVEMENTS AND LANE WIDENING
NW PRYOR ROAD - CROSS-SECTIONS

PROJ. NO.	
A14-7067-1	
DESIGNER	DRAWN BY
LDO	JT/BKR
CFN	
067-1SIG_STPP	
SHEET	REV
36	0



EXTENSIVE REVISIONS

SCALE:
1"=20' HORIZ.
1"=5' VERT.

<div>STREETS OF WEST PRYOR</div> <div>NWQ NW PRYOR RD & NW LOWENSTEIN DR</div> <div>LEE'S SUMMIT, MISSOURI</div>		<div> KAW VALLEY ENGINEERING</div> <div>KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19</div>		<div>2319 N. JACKSON P.O. BOX 1304</div> <div>JUNCTION CITY, KANSAS 66441</div> <div>PH. (785) 238-7744 FAX (785) 238-7744</div> <div>www.kaveg.com</div>		<div>LEON D. OSBOURN</div> <div>ENGINEER</div> <div>MO # 021726</div>		<div></div>					
						<div>1</div> <div>7-2-19</div> <div>REVISED PER CITY COMMENTS</div>		<div>0</div> <div>5-23-19</div> <div>INITIAL ISSUE</div>		<div>REV</div> <div>DATE</div> <div>DESCRIPTION</div>		<div>DSN</div> <div>DWN</div> <div>CHK</div>	
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SHEET		37											
		1											