

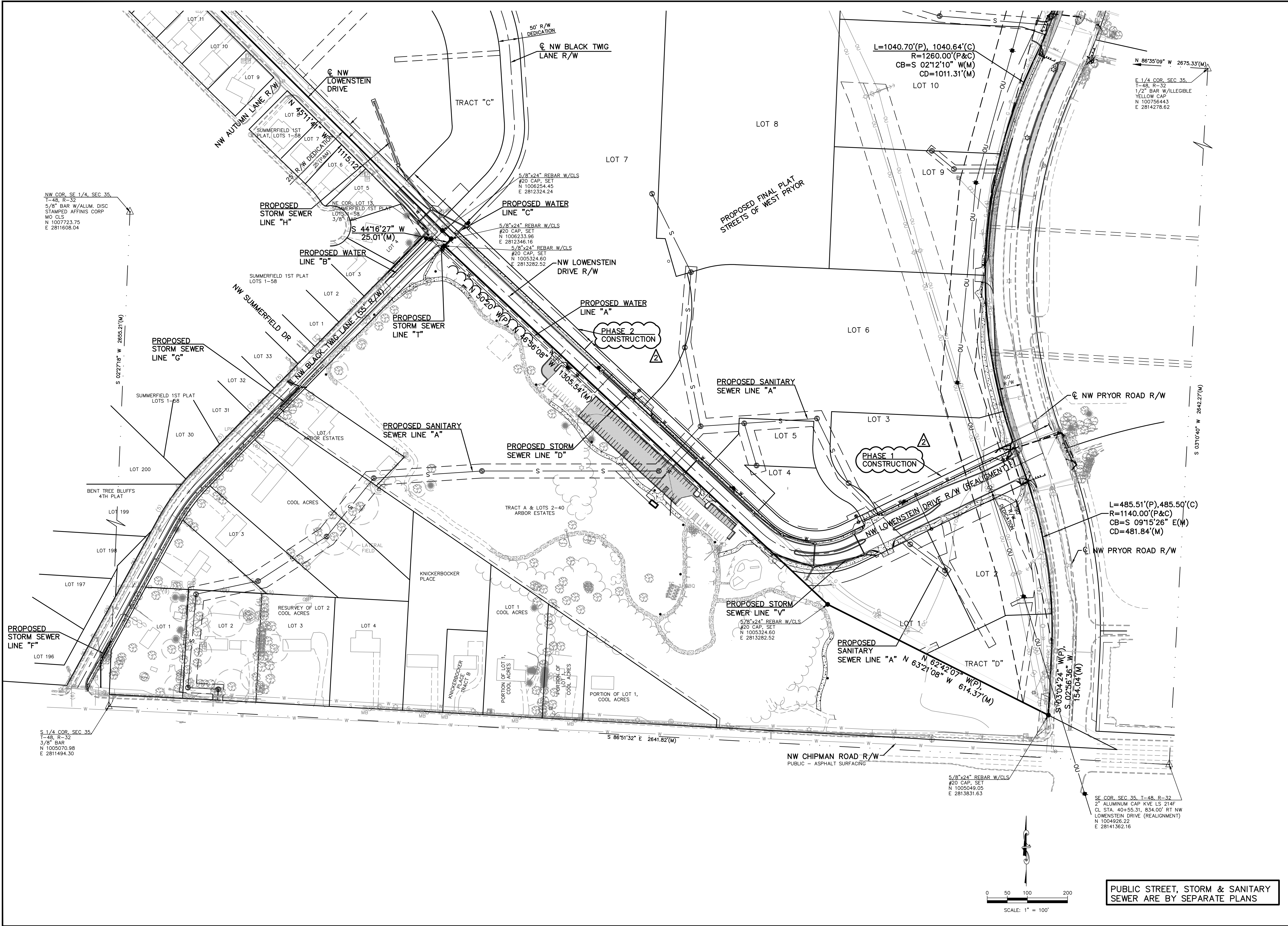
APRIL 2019

LOCATION MAP

CITY OF LEE'S SUMMIT, MISSOURI

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=971.06

PROJ. NO.		A14_7067-1	
DESIGNER		DRAWN BY	
LDO		JT/BKR	
CFN			
7067-1W_TS			
SHEET		REV	
C-1		2	



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STATE OF MISSOURI LEON D. OSBOURN REGISTERED PROFESSIONAL ENGINEER E-21726		REV	DATE	DESCRIPTION
2	4-15-19	REVISED PER CITY COMMENTS		
1	2-26-19	REVISED PER CITY COMMENTS		
0	1-4-19	INITIAL ISSUE		
			DSN	DWN
			LDO	CHK
			LDO	JT
			LDO	JD
			LDO	JD

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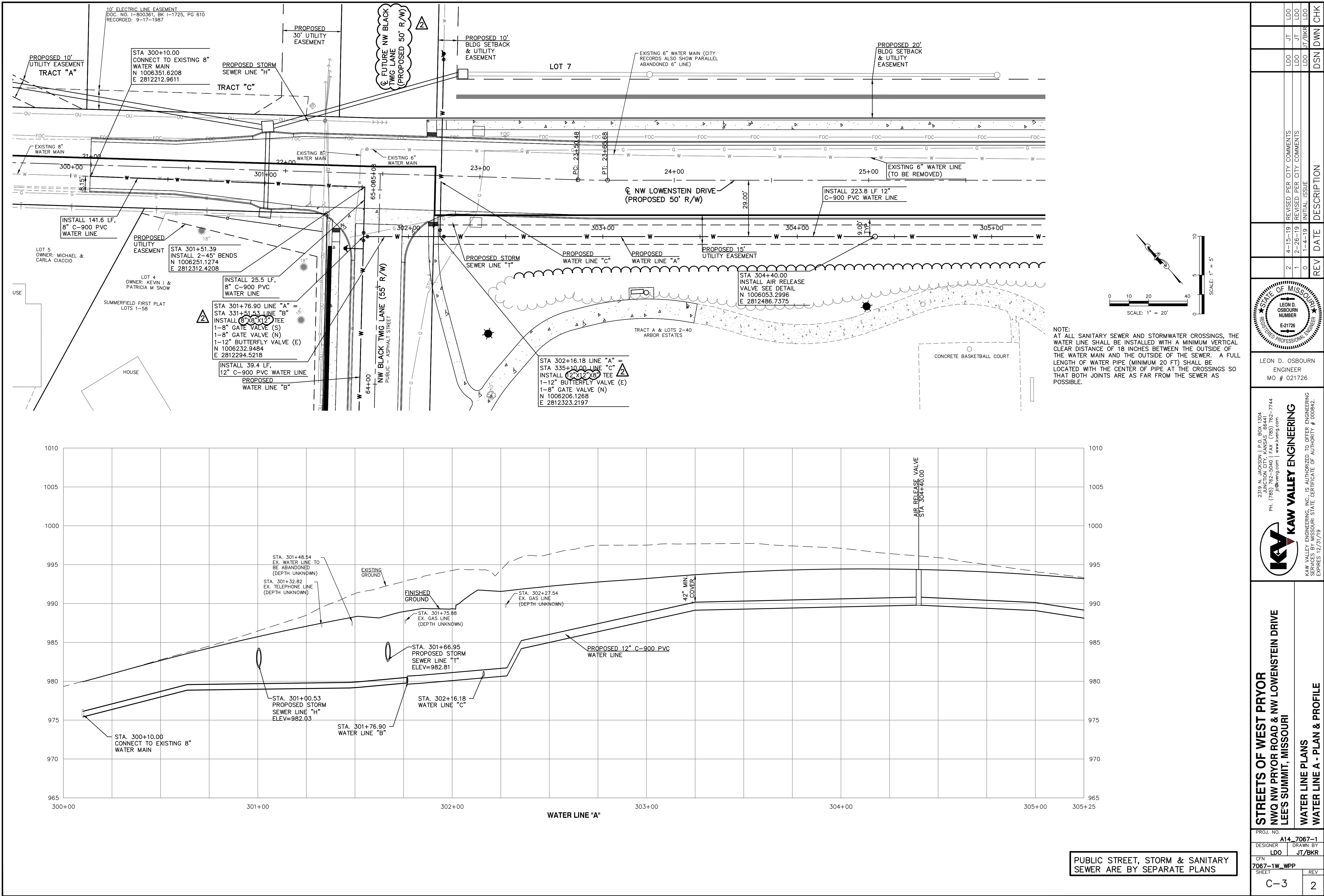
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KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842.
EXPIRES 12/31/19

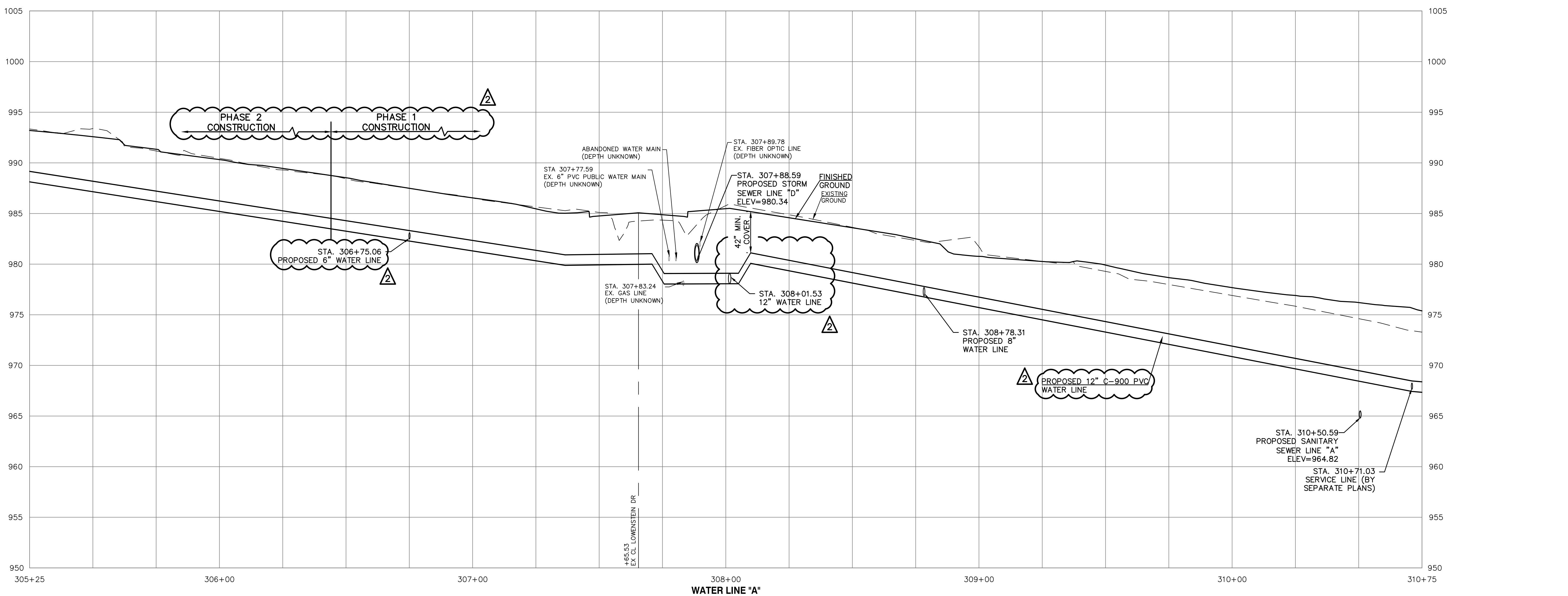
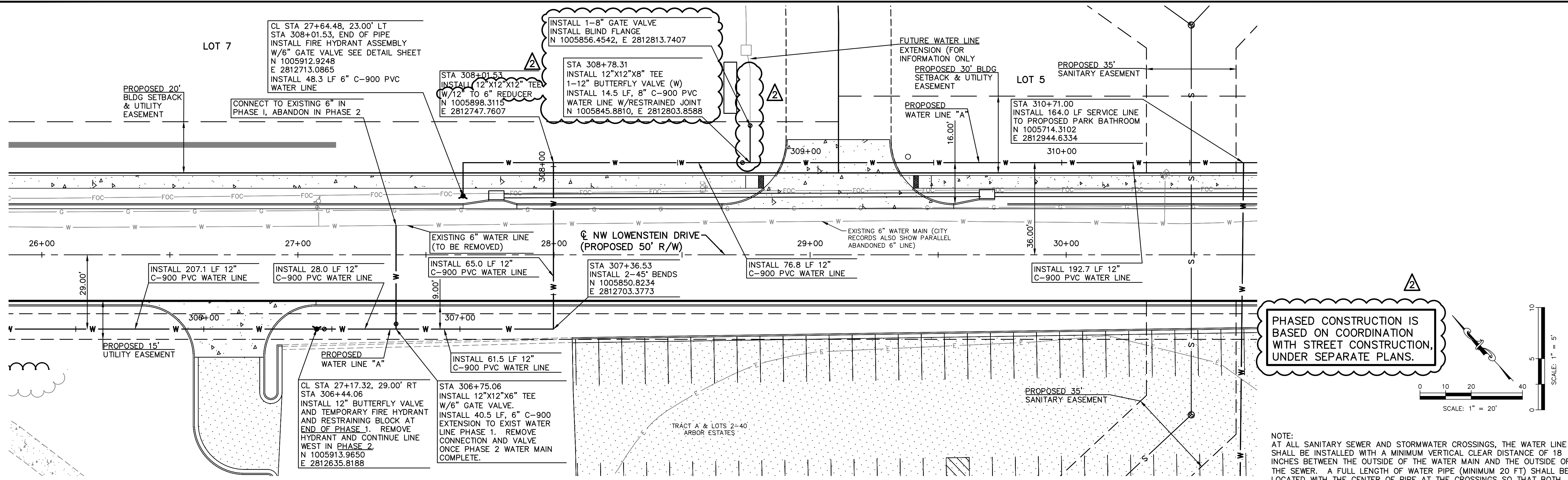
STREETS OF WEST PRYOR
NW/Q NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI

WATER LINE PLANS
GENERAL LAYOUT SHEET

PROJ. NO. **A14-7067-1**
DESIGNER **LDO** DRAWN BY **JT/BKR**
CFN **7067-1W_GLS**
SHEET **C-2**

PUBLIC STREET, STORM & SANITARY SEWER ARE BY SEPARATE PLANS





REV	DATE	DESCRIPTION	DSN	DWN	CHK
2	4-15-19	REVISED PER CITY COMMENTS	LDO	JT	LDO
1	2-26-19	REVISED PER CITY COMMENTS	LDO	JT	LDO
0	1-4-19	INITIAL ISSUE	LDO	JT/BKR	LDO

STATE OF MISSOURI

LEON D. OSBOURN

REGISTERED PROFESSIONAL ENGINEER

E-21726

LEON D. OSBOURN
ENGINEER
MO # 021726

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KV

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STREETS OF WEST PRYOR
NW/4 NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI

WATER LINE PLANS
WATER LINE A - PLAN & PROFILE

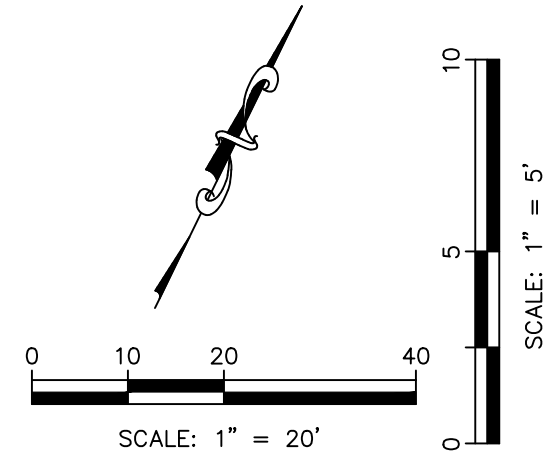
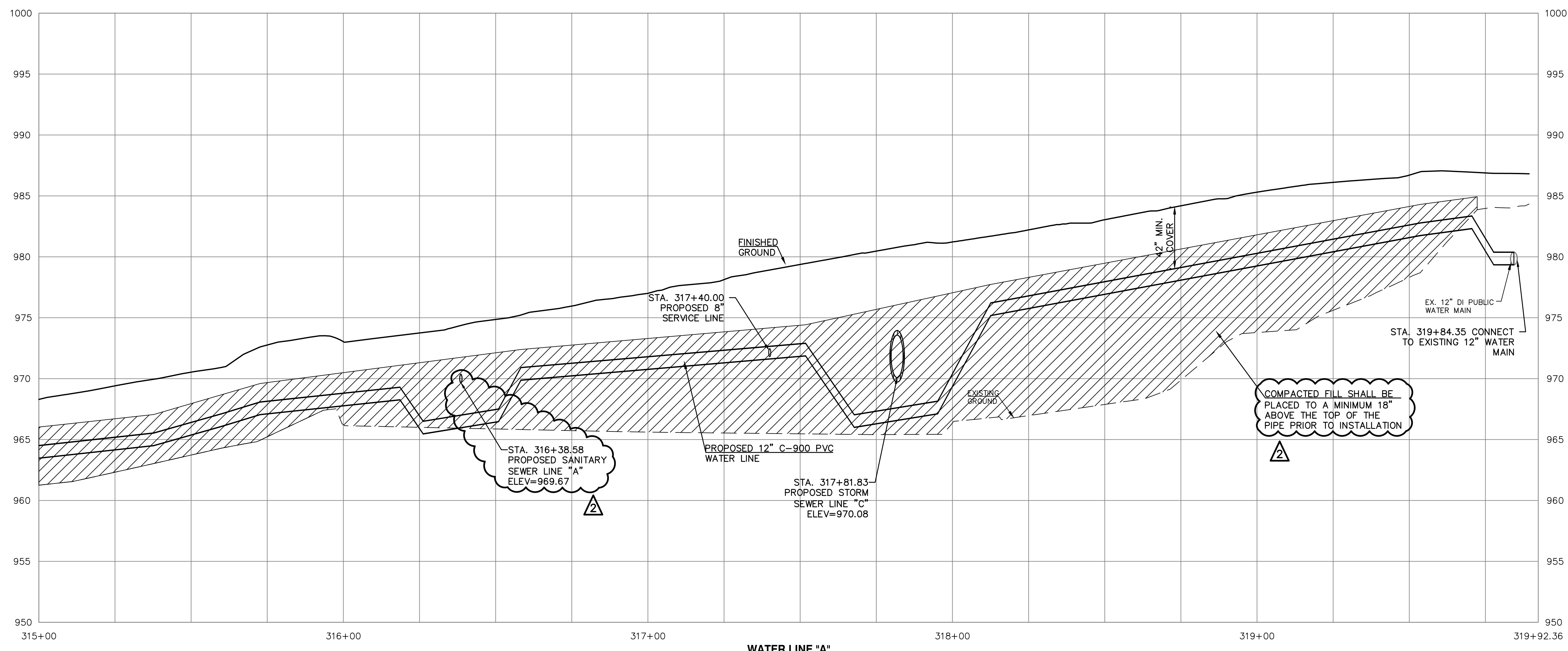
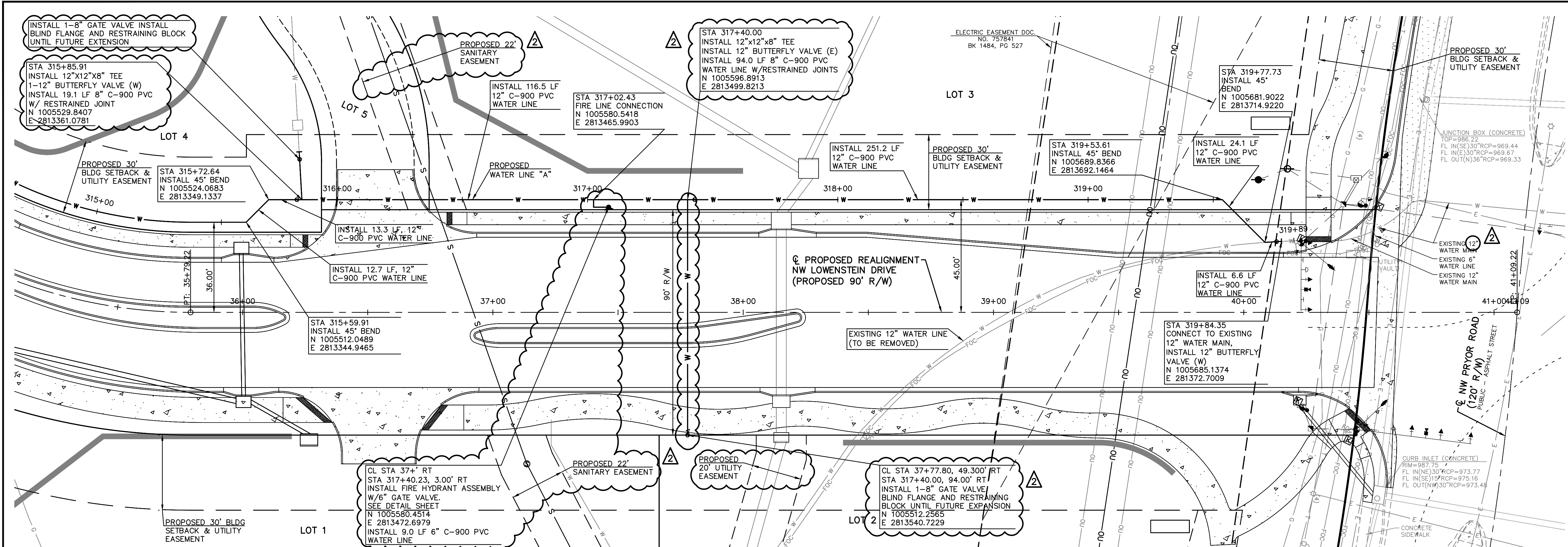
PROJ. NO. A14-7067-1

DESIGNER LDO DRAWN BY JT/BKR

CFN 7067-1W_WPP SHEET

REV C-4 2

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NOTE:
AT ALL SANITARY SEWER AND STORMWATER CROSSINGS, THE WATER LINE SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEAR DISTANCE OF 18 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. A FULL LENGTH OF WATER PIPE (MINIMUM 20 FT) SHALL BE LOCATED WITH THE CENTER OF PIPE AT THE CROSSINGS SO THAT BOTH JOINTS ARE AS FAR FROM THE SEWER AS POSSIBLE.

PROJ. NO.	A14-7067-1	DESIGNER	LDO	DRAWN BY	JT/BKR
CFN	7067-1W_WPP	REV	0	DATE	12/31/19
SHEET	C-6	REV	1	DATE	12/31/19

STREETS OF WEST PRYOR
NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI

WATER LINE PLANS
WATER LINE A - PLAN & PROFILE

LEON D. OSBOURN
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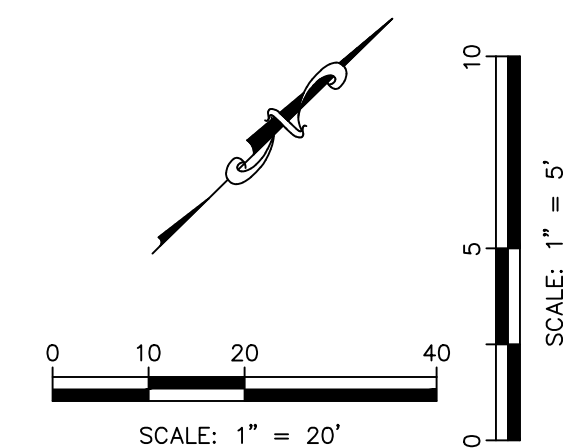
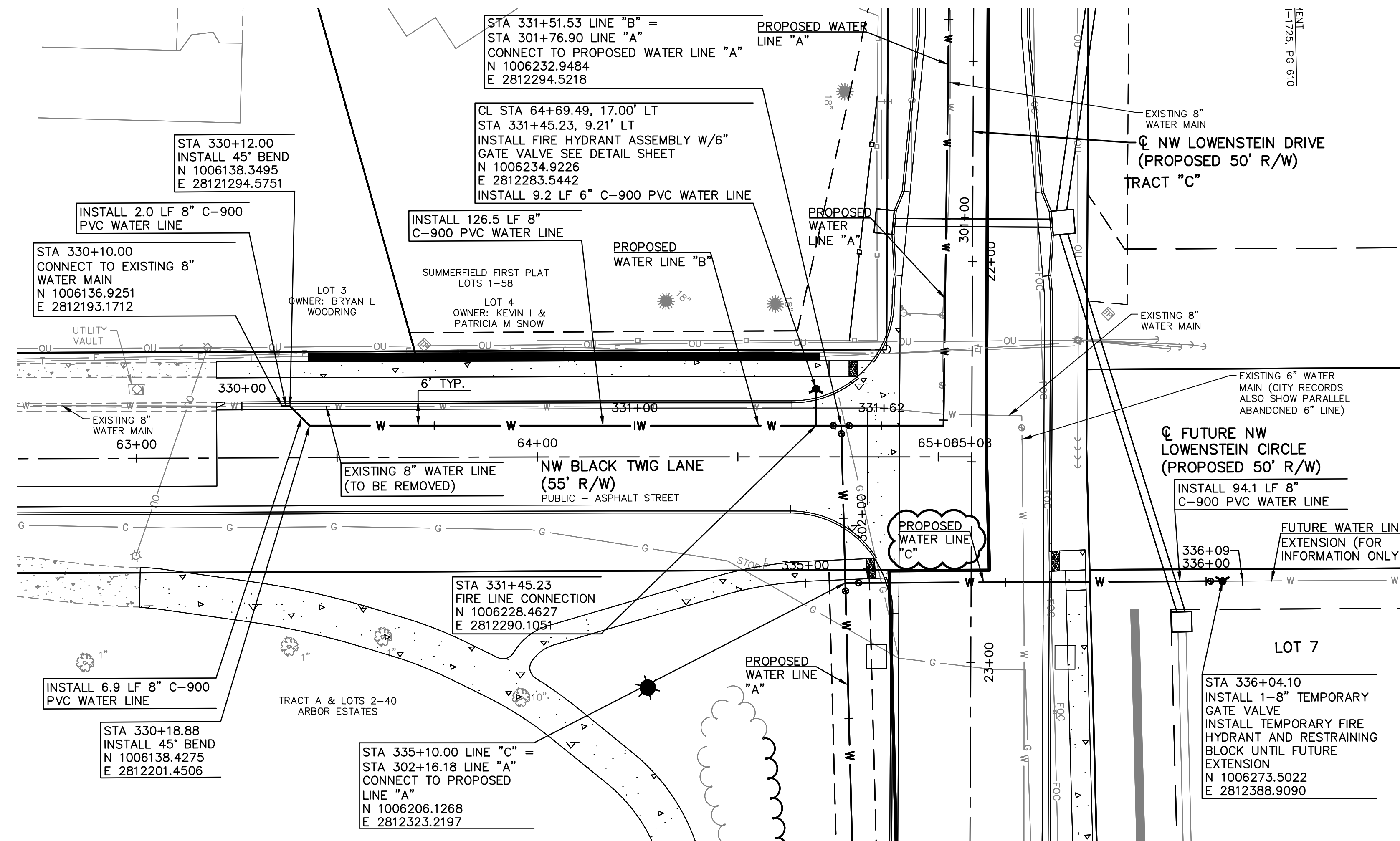
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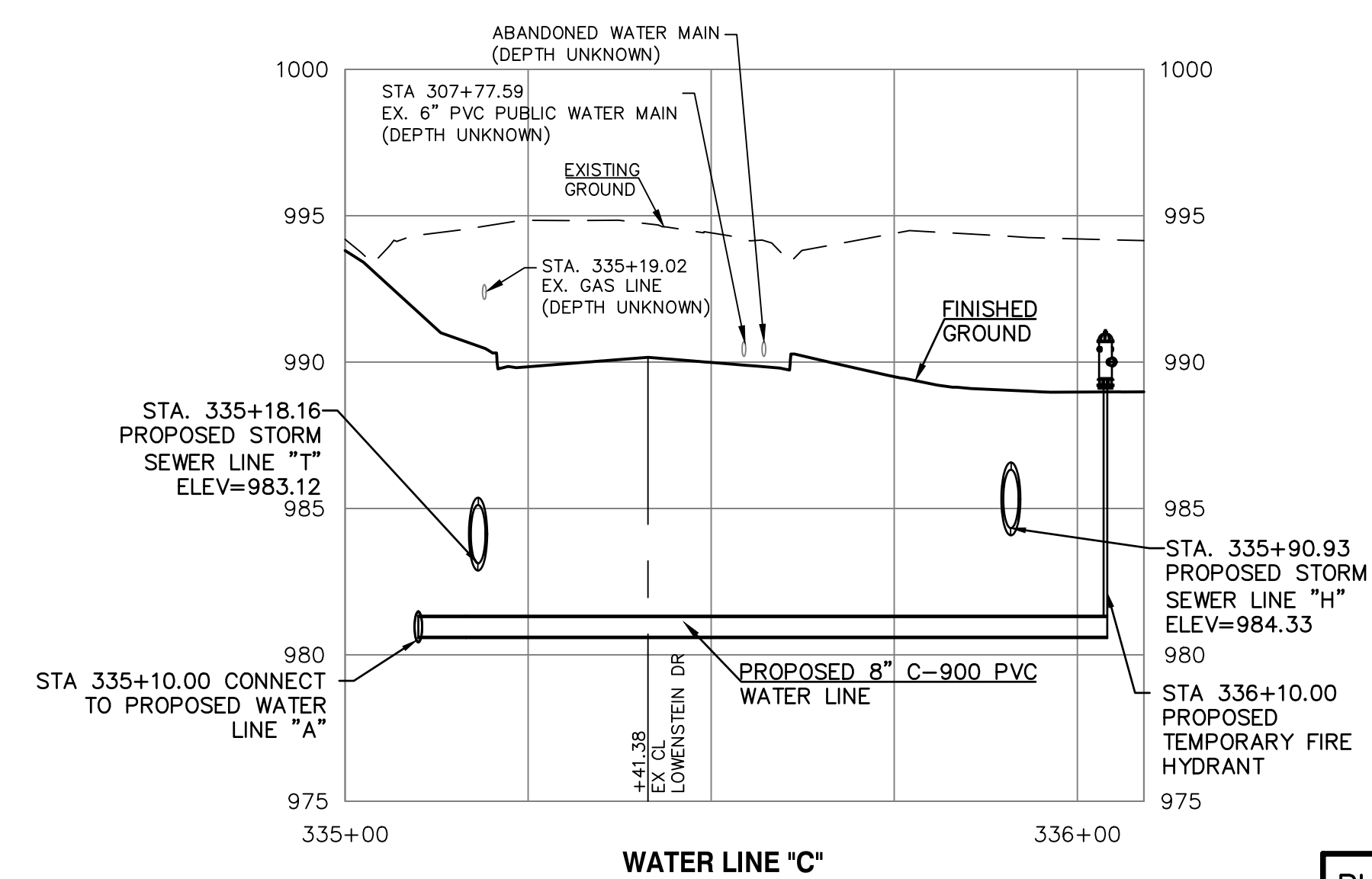
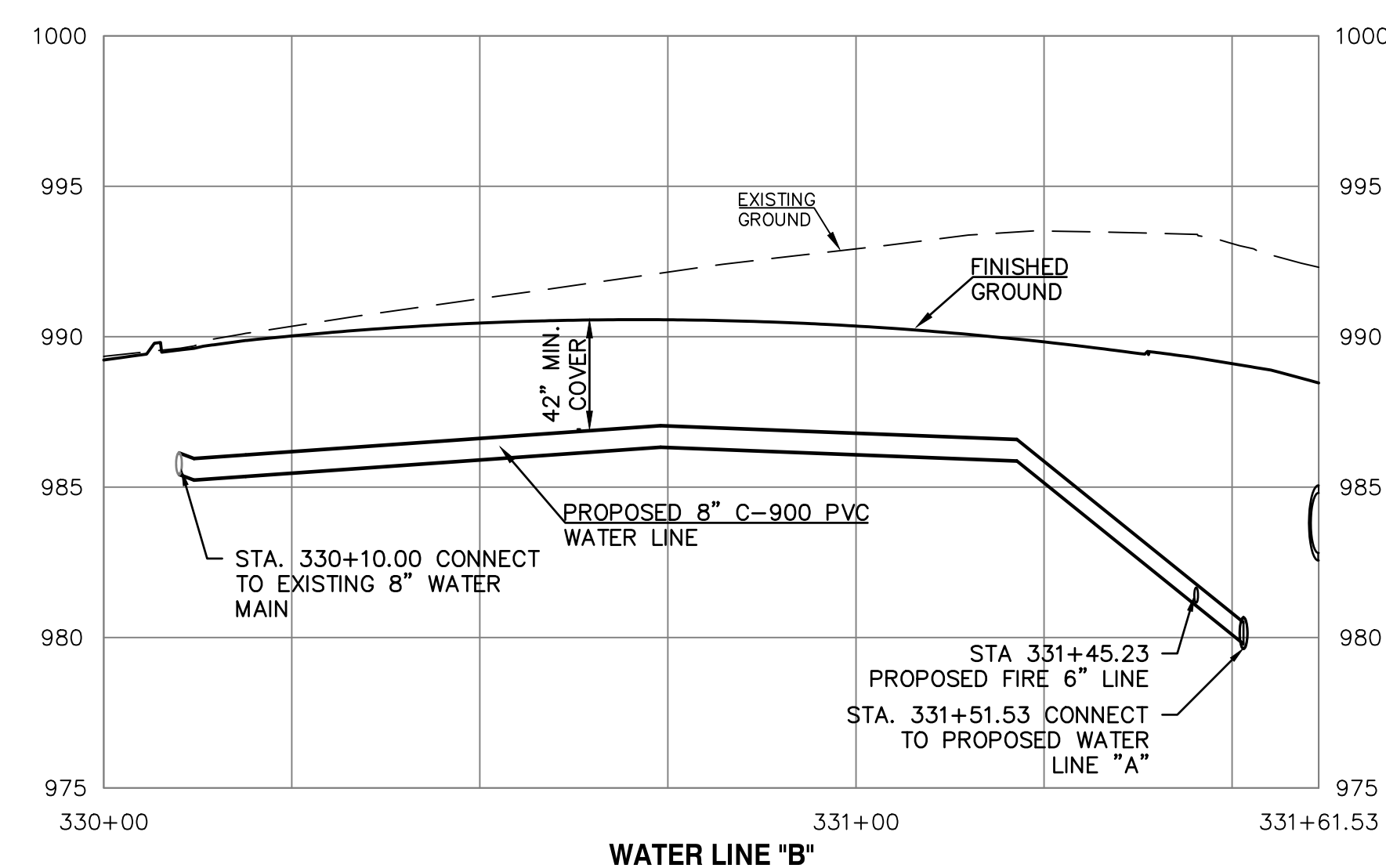
STATE OF MISSOURI
LEON D. OSBOURN
REGISTERED PROFESSIONAL ENGINEER
E-21726

REV	0	DATE	1-4-19	INITIAL	ISSUE
REV	1	DATE	2-26-19	REVISED	PER CITY COMMENTS
REV	2	DATE	4-15-19	REVISED	PER CITY COMMENTS

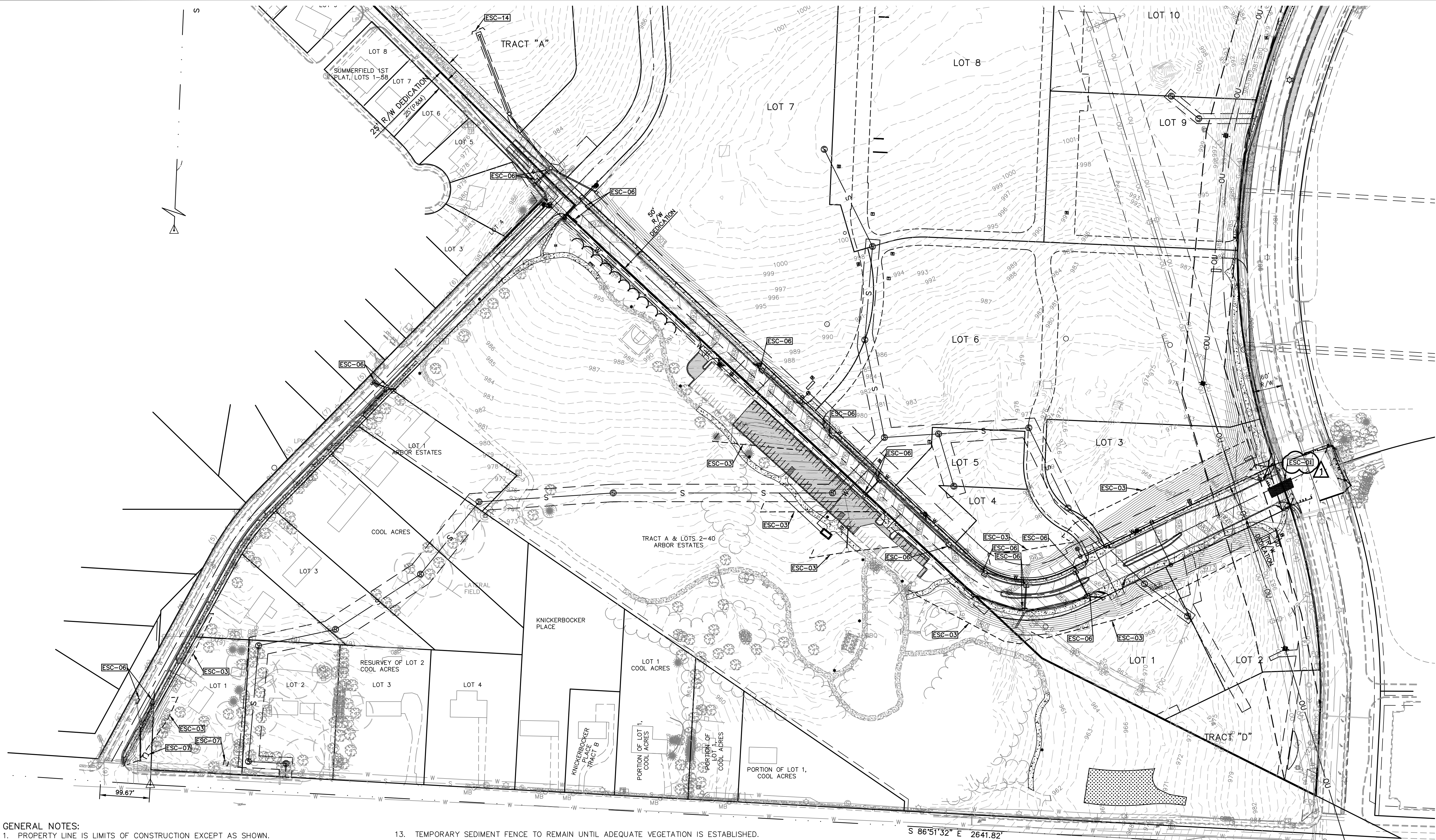
CHK	DWN
LDO	JT/BKR
LDO	JT
LDO	JT



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PUBLIC STREET, STORM & SANITARY
SEWER ARE BY SEPARATE PLANS



- 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.

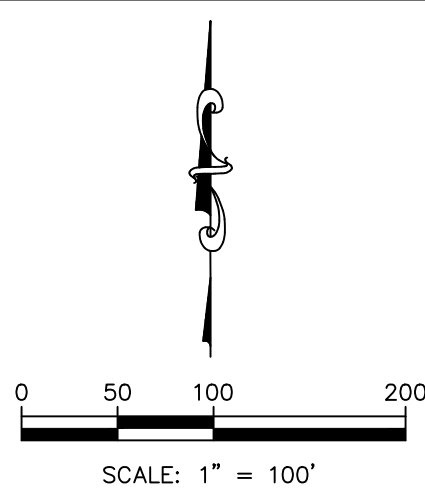
CONTRACTOR TO COORDINATE EROSION CONTROL WITH MASS GRADING CONSTRUCTION AND LOWENSTEIN DRIVE IMPROVEMENTS IN PHASES

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.

- DETAILS - SEE EROSION CONTROL DETAIL SHEETS FOR THE FOLLOWING DETAILS
- ESC-01 CONSTRUCTION ENTRANCE DETAIL
 - ESC-03 SILT FENCE
 - ESC-06 CURB INLET PROTECTION
 - ESC-07 AREA INLET AND JUNCTION BOX PROTECTION
 - ESC-14 OUTLET PROTECTION

EROSION & PROPOSED IMPROVEMENTS LEGEND:

- 970--- EXISTING GROUND CONTOUR (1' INTERVALS)
- 970 PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)
- SILT FENCE
- INLET PROTECTION



STREETS OF WEST PRYOR NW/4 NW PRYOR ROAD & NW LOWENSTEIN DRIVE LEE'S SUMMIT, MISSOURI		WATER LINE PLANS EROSION CONTROL PLAN	
PROJ. NO. A14-7067-1		DESIGNER LDO	
DRAWN BY JT/BKR		REV 1	
SHEET 7067-1W_ECP		REV 1	
C-8		1	

STATE OF MISSOURI
LEON D. OSBOURN
REGISTERED PROFESSIONAL ENGINEER
E-21726

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CHK	DWN
LDO	JT/BKR
LDO	JT

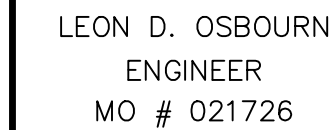
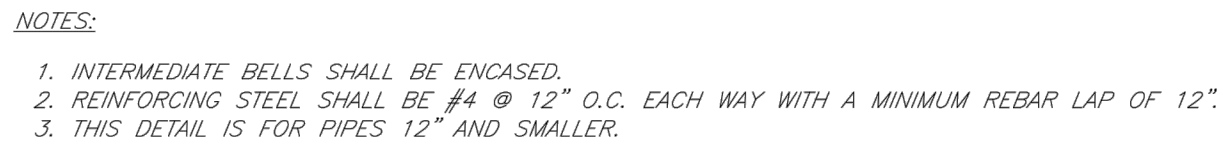
NOTES:

1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
3. BEARING MUST BE AGAINST UNDISTURBED SOIL.
4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.

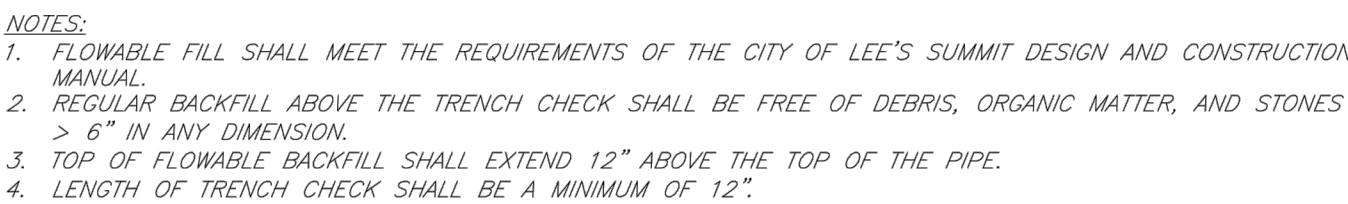
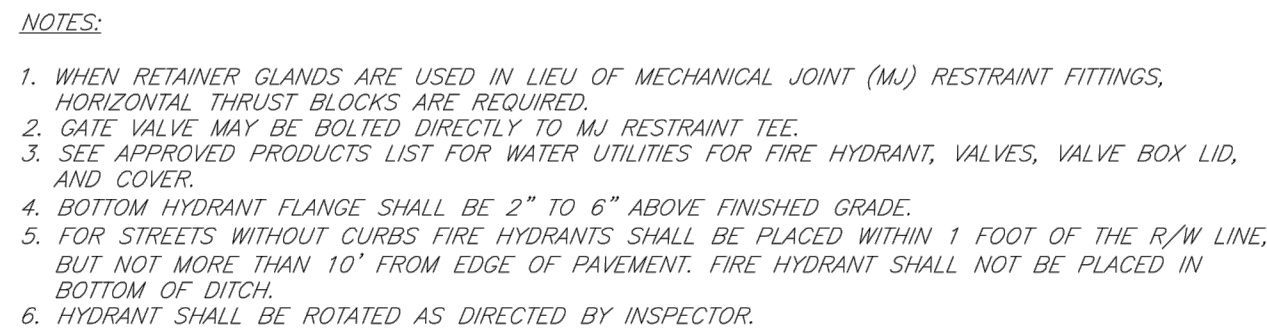
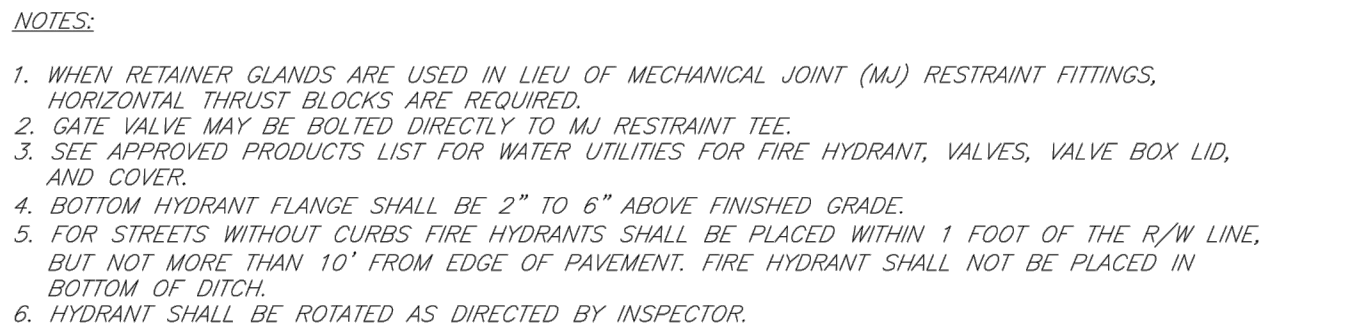
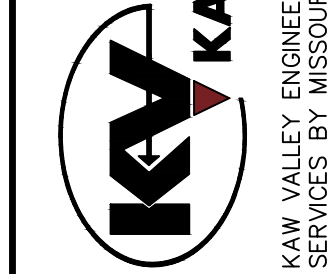


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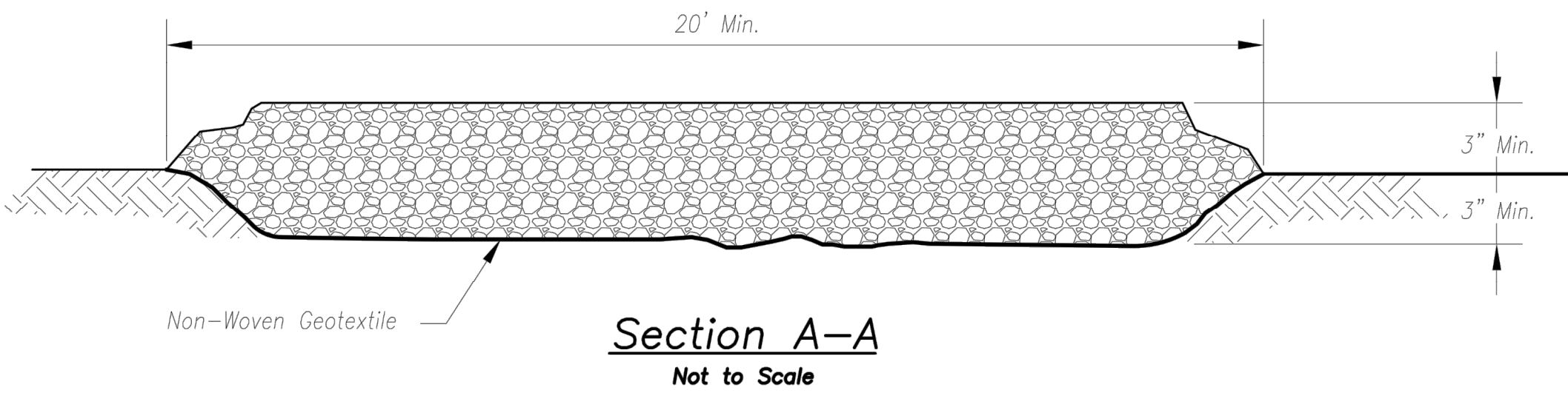
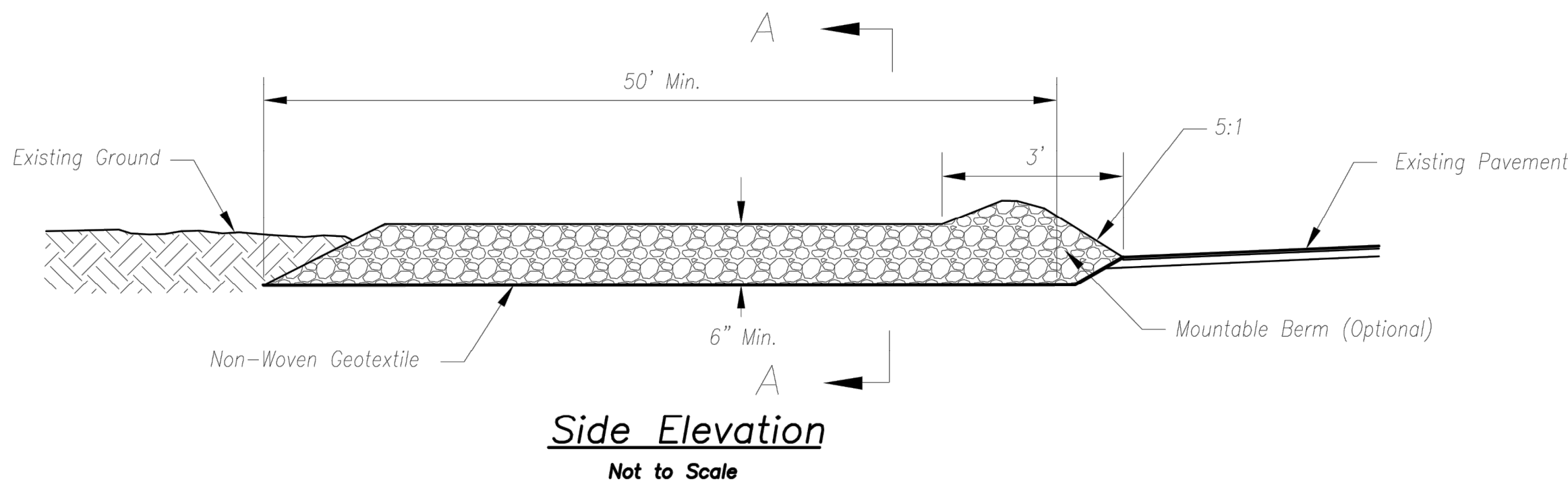
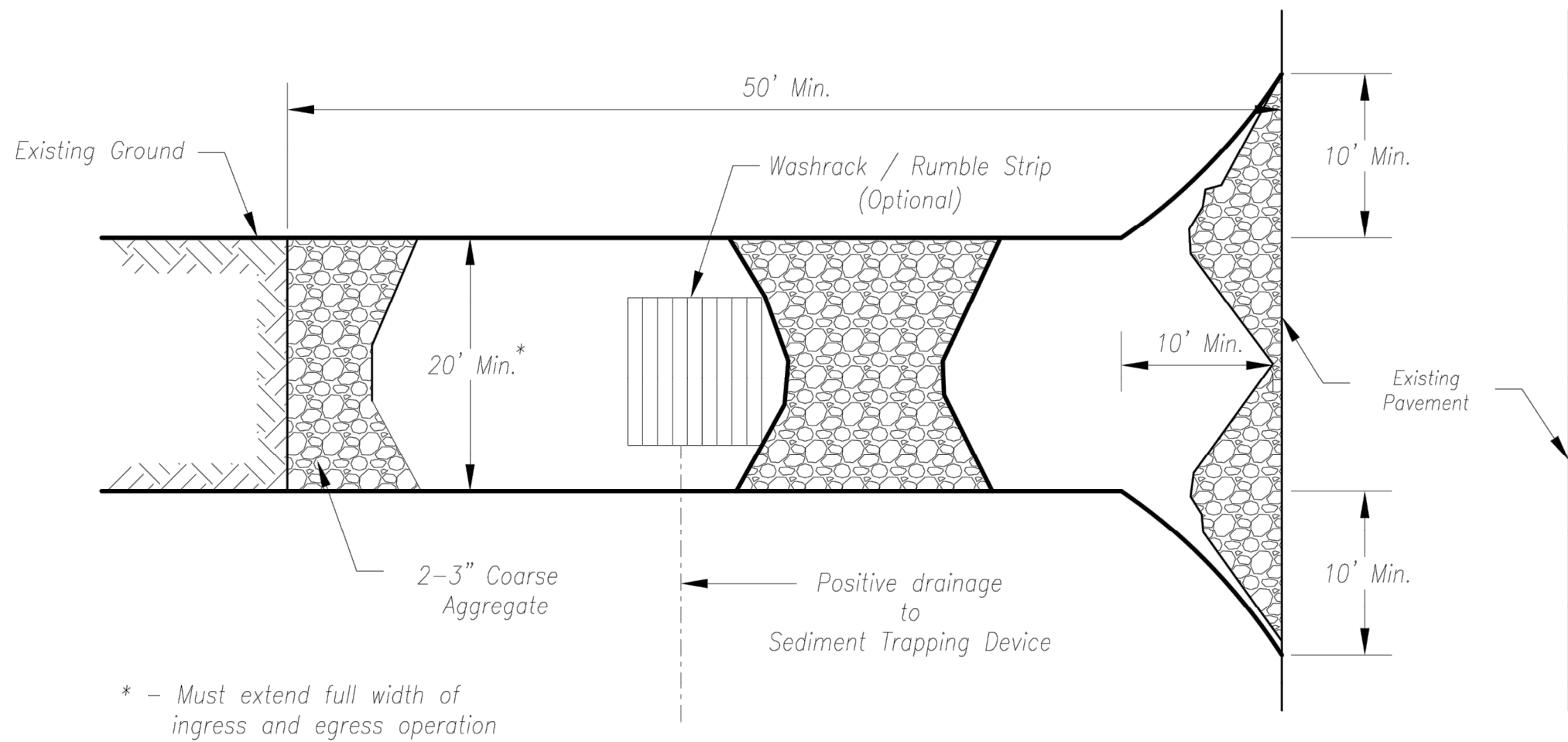
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STREETS OF WEST PRYOR
NW/4 NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI

WATER LINE PLANS

PROJ. NO.		A14-7067-	
DESIGNER	LDO	DRAWN BY	JT/BK
CFN			
7067-1W_DET			
SHEET		REV	
C-9		1	



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.

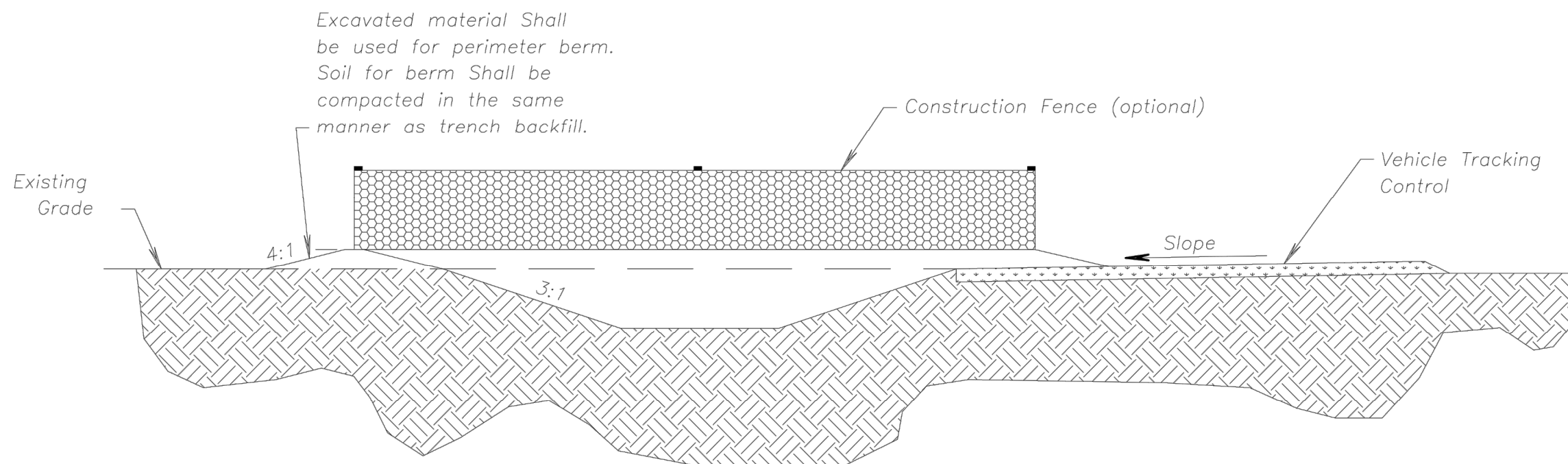
CONSTRUCTION ENTRANCE

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

AMERICAN PUBLIC WORKS ASSOCIATION



KANSAS CITY
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CONSTRUCTION ENTRANCE
AND CONCRETE WASHOUT

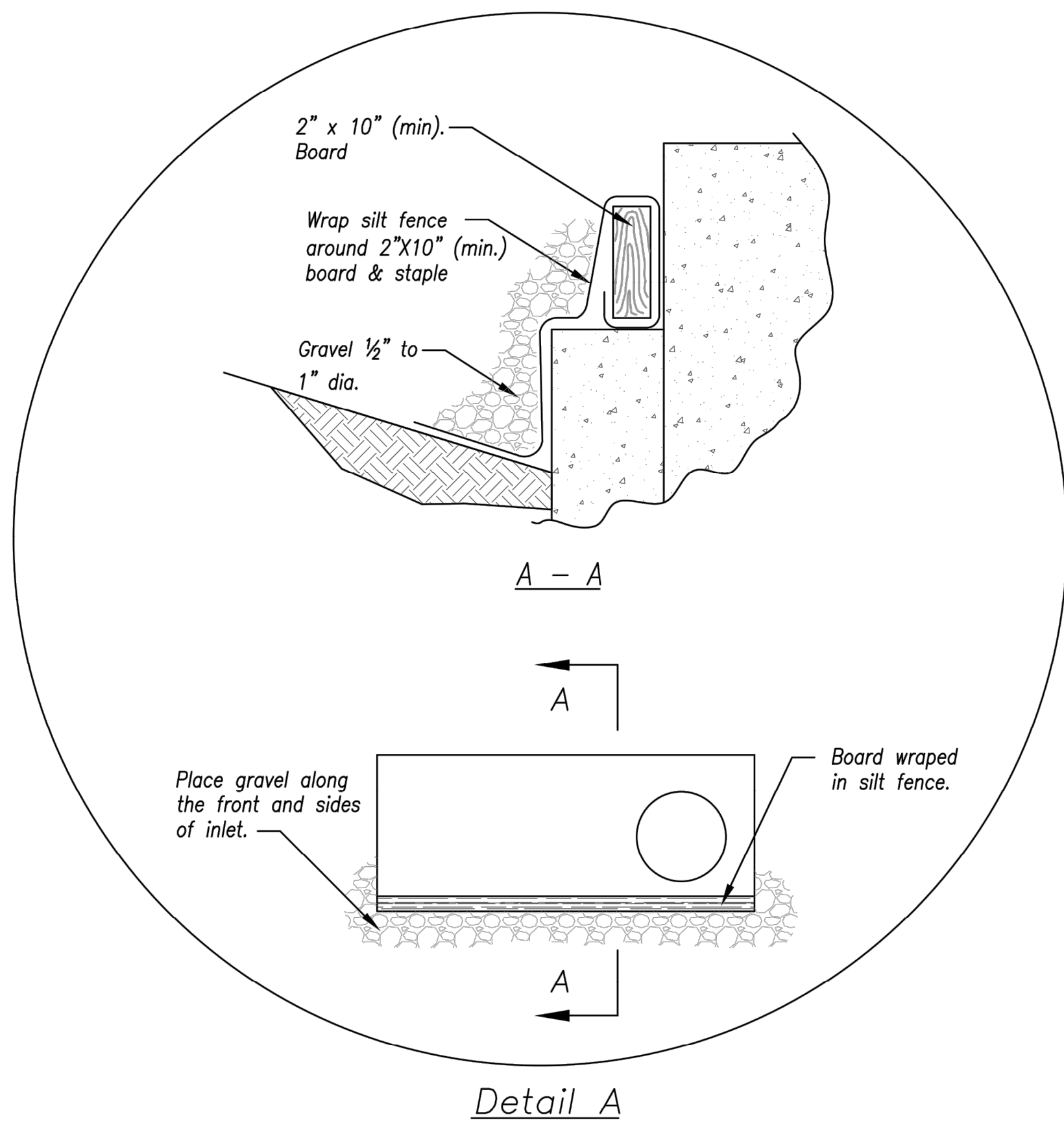
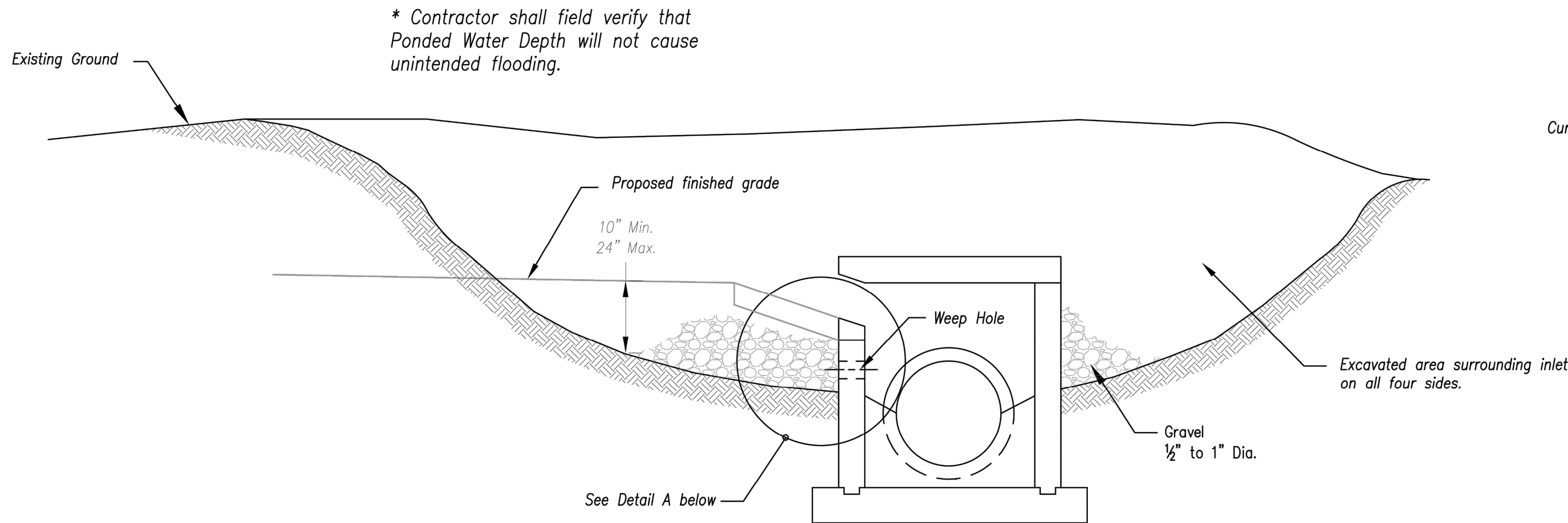
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NUMBER ESC-01
ADOPTED:
10/24/2016

STREETS OF WEST PRYOR
NW/Q NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI

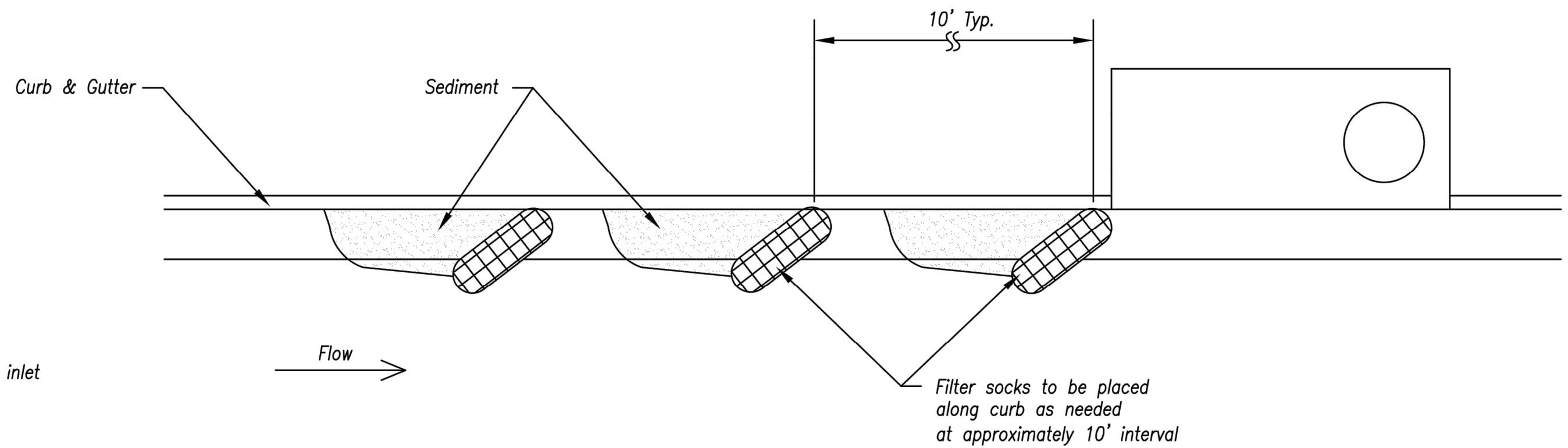
WATER LINE PLANS
DETAIL SHEET

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

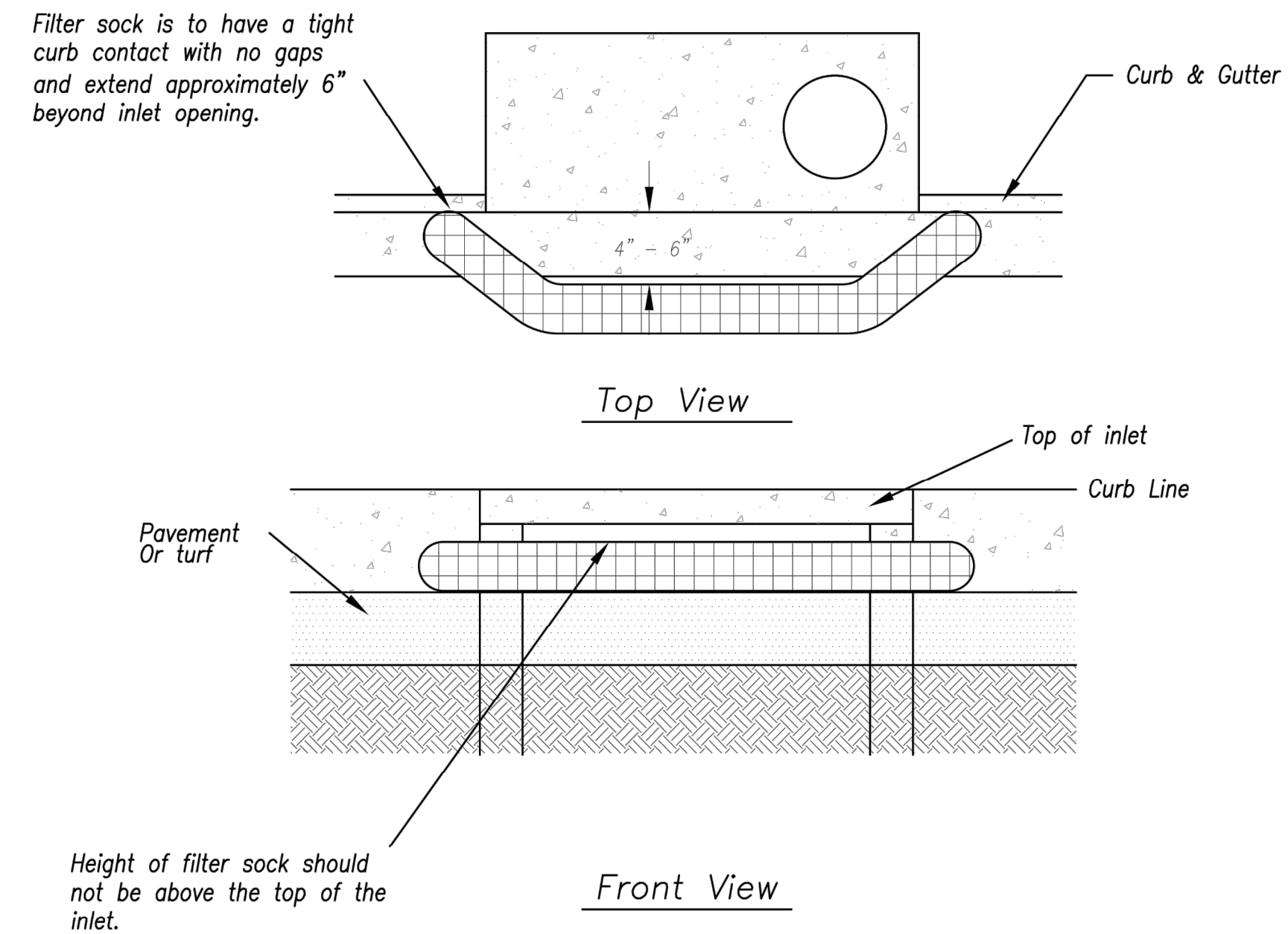
C-10 1



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



On Grade Curb Inlet Protection



Sump Inlet Sediment Filter

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

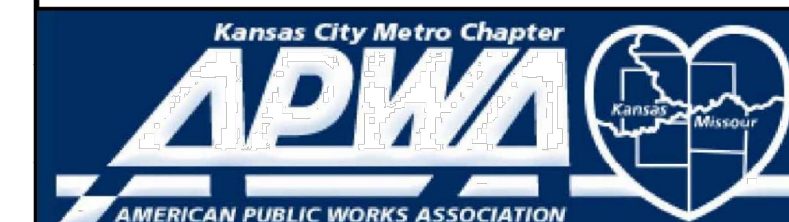
Notes:

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.

AMERICAN PUBLIC WORKS ASSOCIATION



KANSAS CITY
METRO CHAPTER

CURB INLET PROTECTION

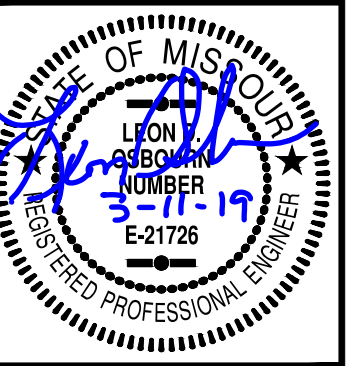
STANDARD DRAWING
NUMBER ESC-06
ADOPTED:
10/24/2016

STREETS OF WEST PRYOR
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LEE'S SUMMIT, MISSOURI

WATER LINE PLANS
DETAIL SHEET

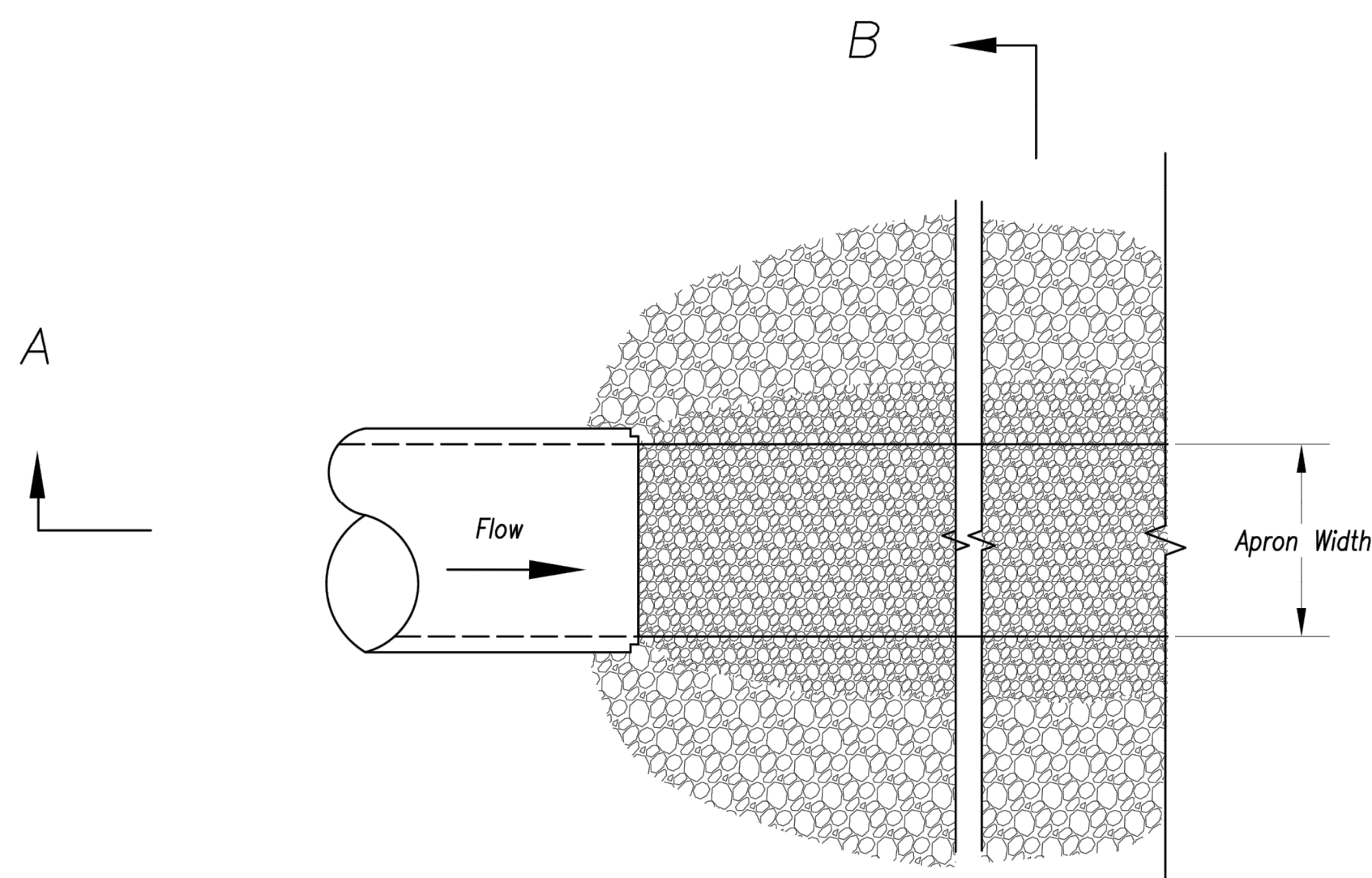
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DESIGNER LDO DRAWN BY JT/BKR
CFN 7067-1W_DET
SHEET

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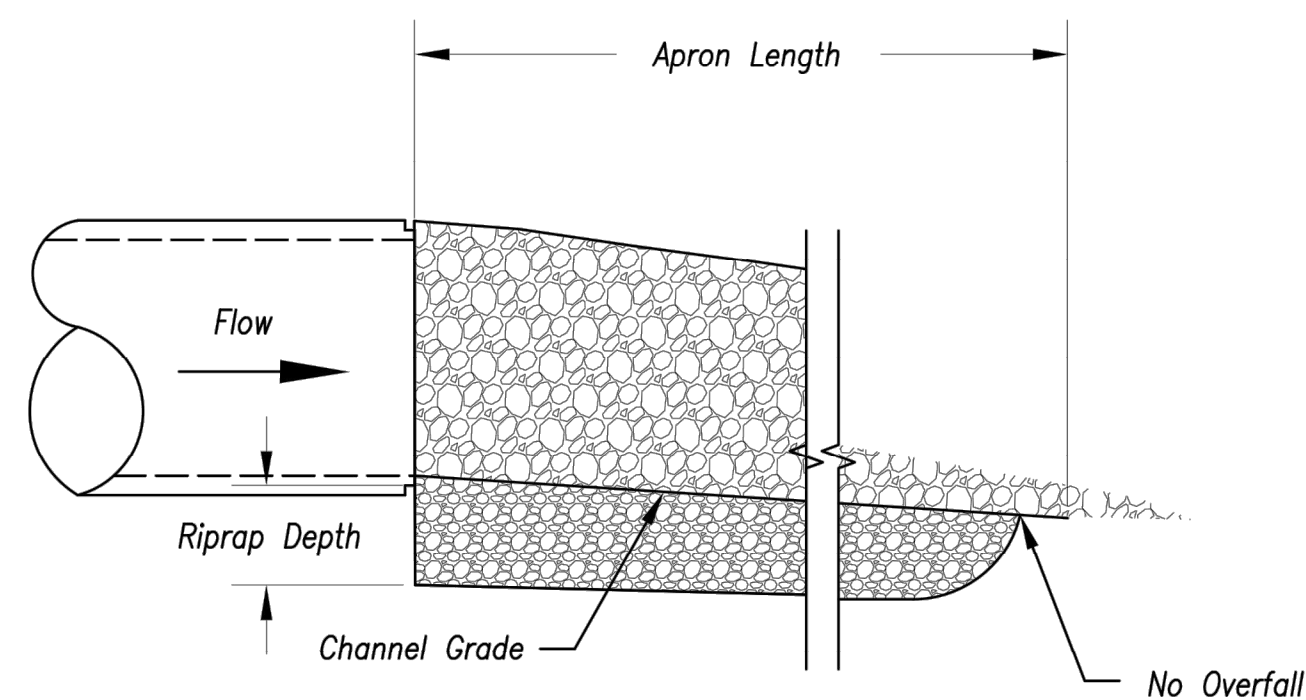


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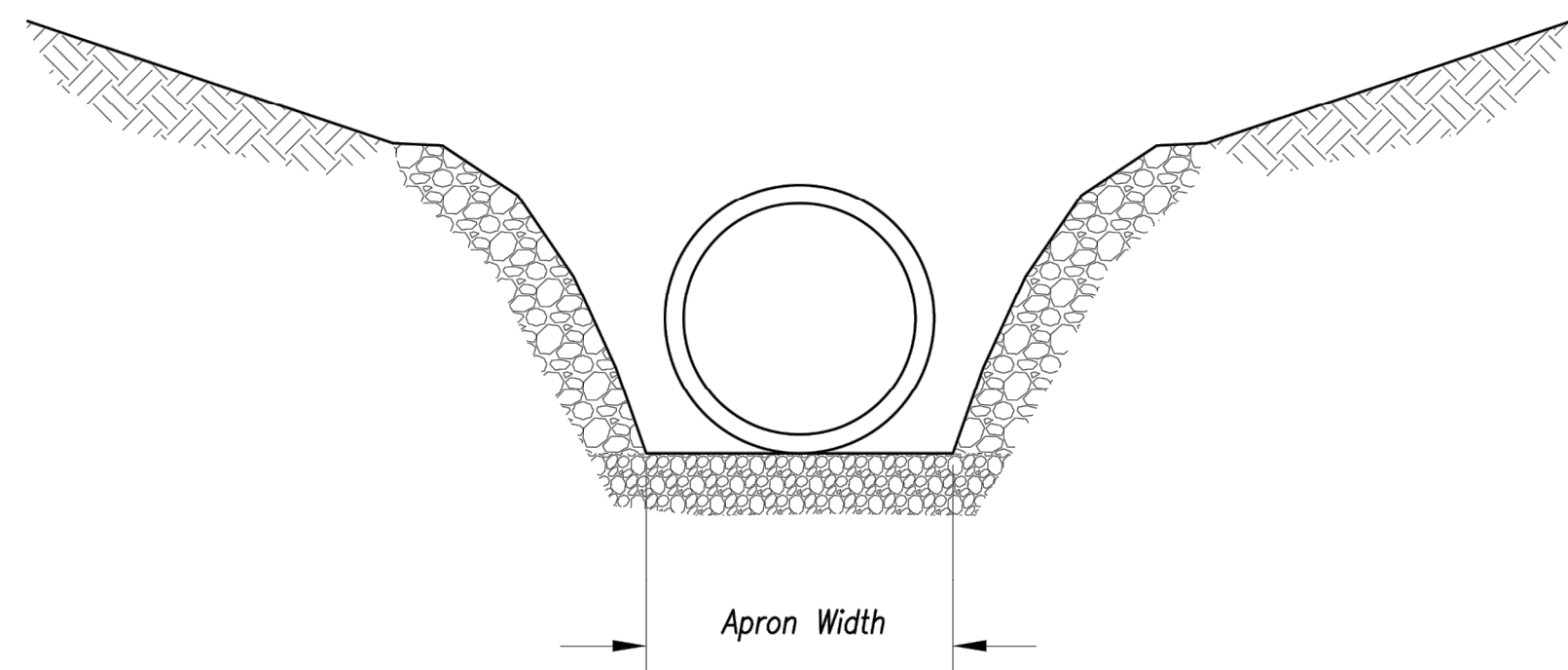
2319 N. JACKSON | P.O. BOX 1304
JUNCTION CITY, KANSAS 66441
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jke@kvw.com | www.kvw.com
KAW VALLEY ENGINEERING
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19



Plan View
Not to Scale

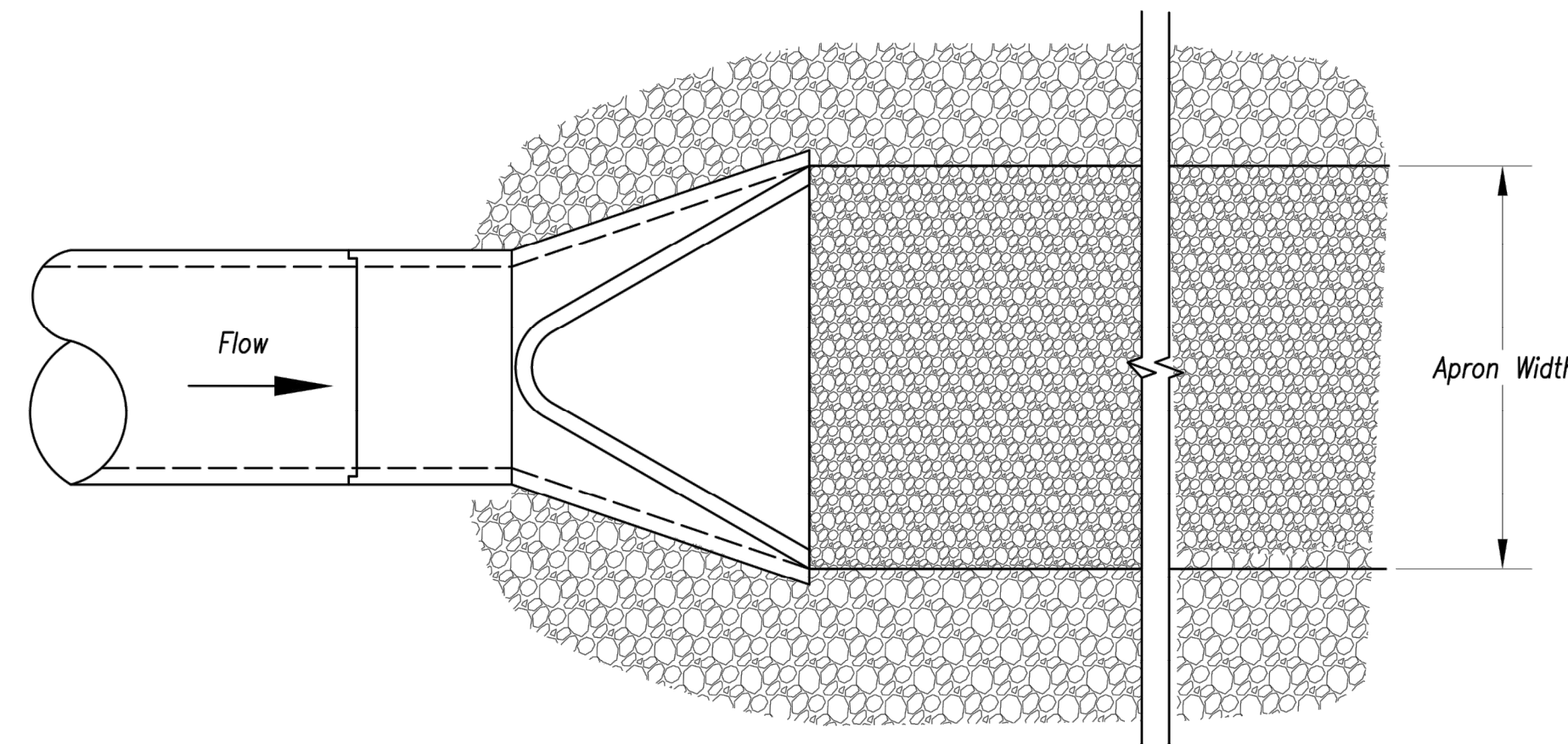
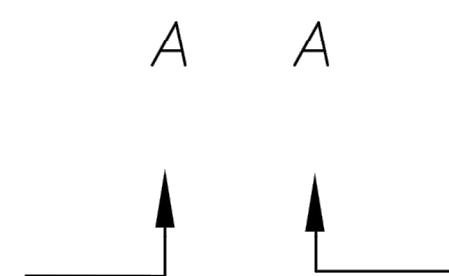


Section A-A
Not to Scale

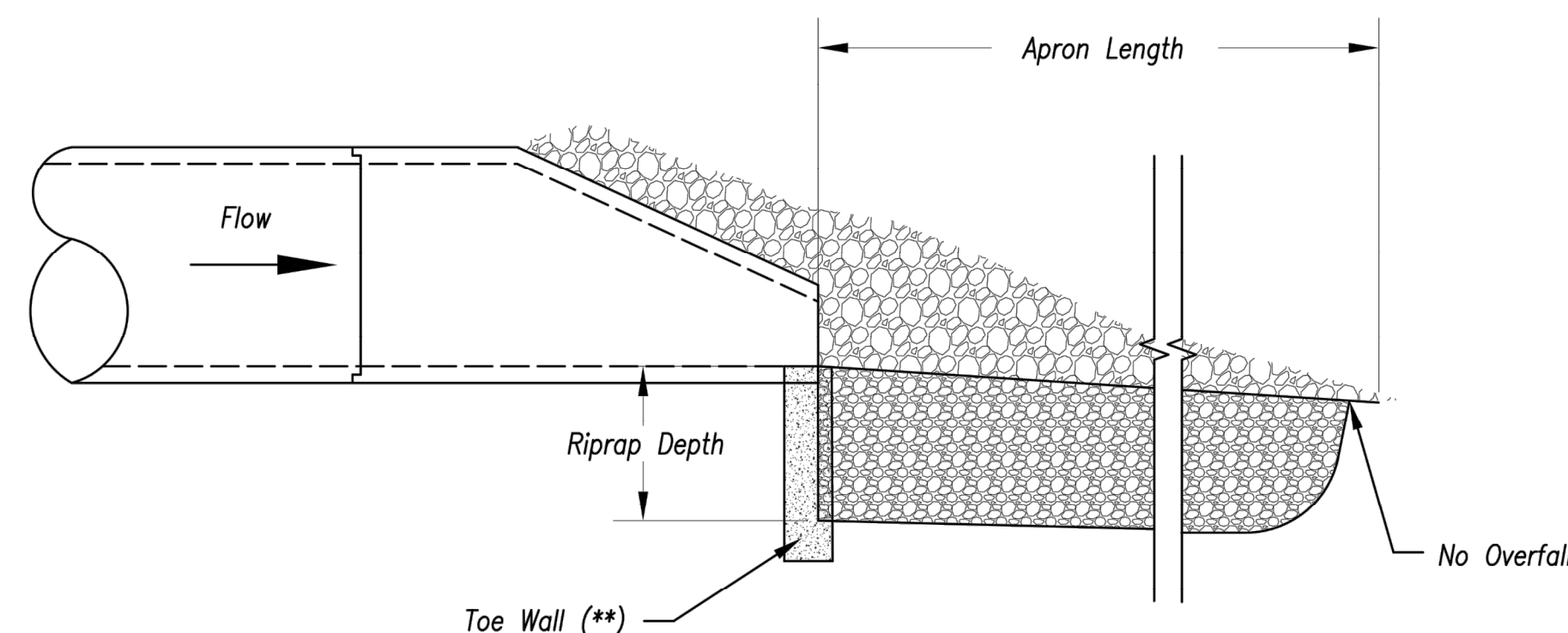


Section B-B
Not to Scale

OUTLET PROTECTION W/O END SECTION



Plan View
Not to Scale



Section A-A
Not to Scale

OUTLET PROTECTION WITH END SECTION

Notes:

1. Rock all sides steeper than 3:1.
2. Stabilize all disturbed areas downstream of outlet to the limits of disturbance.
3. Alternative outlet protection and slope stabilization measures may be used with approval by the Engineer.
4. Install riprap apron so that it is no higher than flowline of pipe.
5. Reference APWA Specification 2650 for rock type, size, and placement.

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

AMERICAN PUBLIC WORKS ASSOCIATION



KANSAS CITY
METRO CHAPTER

OUTLET PROTECTION

STANDARD DRAWING
NUMBER ESC-I4

ADOPTED:
10/24/2016

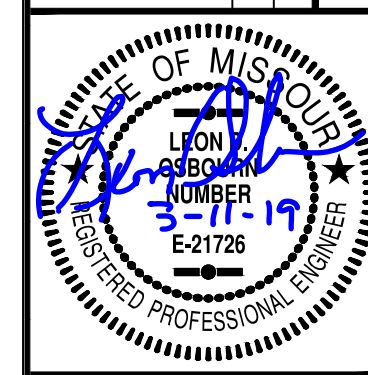
STREETS OF WEST PRYOR
NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE
LEE'S SUMMIT, MISSOURI

WATER LINE PLANS
DETAIL SHEET

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

C-14

REV 1



LEON D. OSBOURN
ENGINEER
MO # 021726

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EXPIRES 12/31/19

REV	DATE	DESCRIPTION	DSN	DWN	CHK
1	2-26-19	REVISED PER CITY COMMENTS	LDO	JT	LDO
0	1-4-19	INITIAL ISSUE	LDO	JT/BKR	LDO