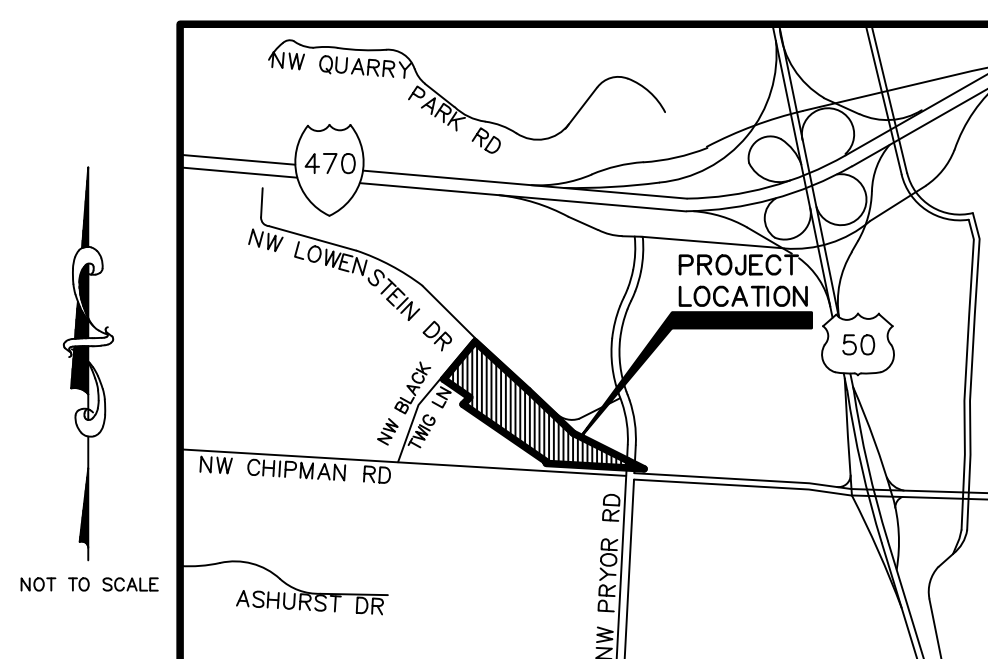


CONSTRUCTION PLANS FOR LOWENSTEIN PARK IMPROVEMENTS STREETS OF WEST PRYOR LEE'S SUMMIT, MISSOURI

△ JULY 2019



LOCATION MAP
CITY OF LEE'S SUMMIT, MISSOURI

ELECTRIC- SERVICE
KCP&L
NATHAN MICHAEL
(913) 347-4310
Nathan.Michael@kcpl.com

COMMUNICATION SERVICE
AT&T
CARRIE CILKE
(816) 703-4386
cc3527@att.com

GAS SERVICE
SPIRE
KATIE DARNELL
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Katie.Darnell@spireenergy.com

COMMUNICATION SERVICE
TIME WARNER CABLE
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(913) 643-1928
Steve.Baxter@charter.com

WATER, SANITARY/STORM SEWER SERVICE
CITY OF LEE'S SUMMIT
KENT MONTER
(816) 969-1900
Kent.Monter@cityofls.net

COMMUNICATION SERVICE
COMCAST
RYAN ALKIRE
(816) 795-2218
Ryan.Alkire@cable.comcast.com

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



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 THE SURVEY. SURVEYOR MAPS NOT GUARANTEED. THE LOCATION OF UNDERGROUND UTILITIES SHOWN COMPREHENDS 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 NO PHYSICAL COPIES OF 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 LOCATE 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.

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

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

PREPARED BY:
KAW VALLEY ENGINEERING, INC.
2319 N. JACKSON
JUNCTION CITY, KS 66441
785-762-5040
CONTACT: LEON D OSBOURN
EMAIL: ldo@kvenq.com

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| LANDSCAPING | |
| L 2.01 | LANDSCAPE PLAN |

APPROVED THIS _____ DAY OF _____, _____

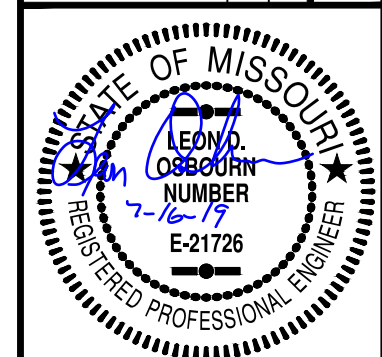
OWNER: MATT PENNINGTON

APPROVED THIS _____ DAY OF _____, _____

CITY APPROVAL

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

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.
F.F.V.=970.98

[illegible]

LEON D. OSBOURN
ENGINEER
MO # 021726

KV **KAW VALLEY ENGINEERING**

2319 N. JACKSON | P.O. BOX 1304
JUNCTION CITY, KANSAS 66441
PH (785) 762-9040 | FAX (785) 762-7744
j@kveeng.com | www.kveeng.com

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000642.
EXPIRES 12/31/19

STREETS OF WEST PRYOR
1100 NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

LOWENSTEIN PARK IMPROVEMENTS
TITLE SHEET

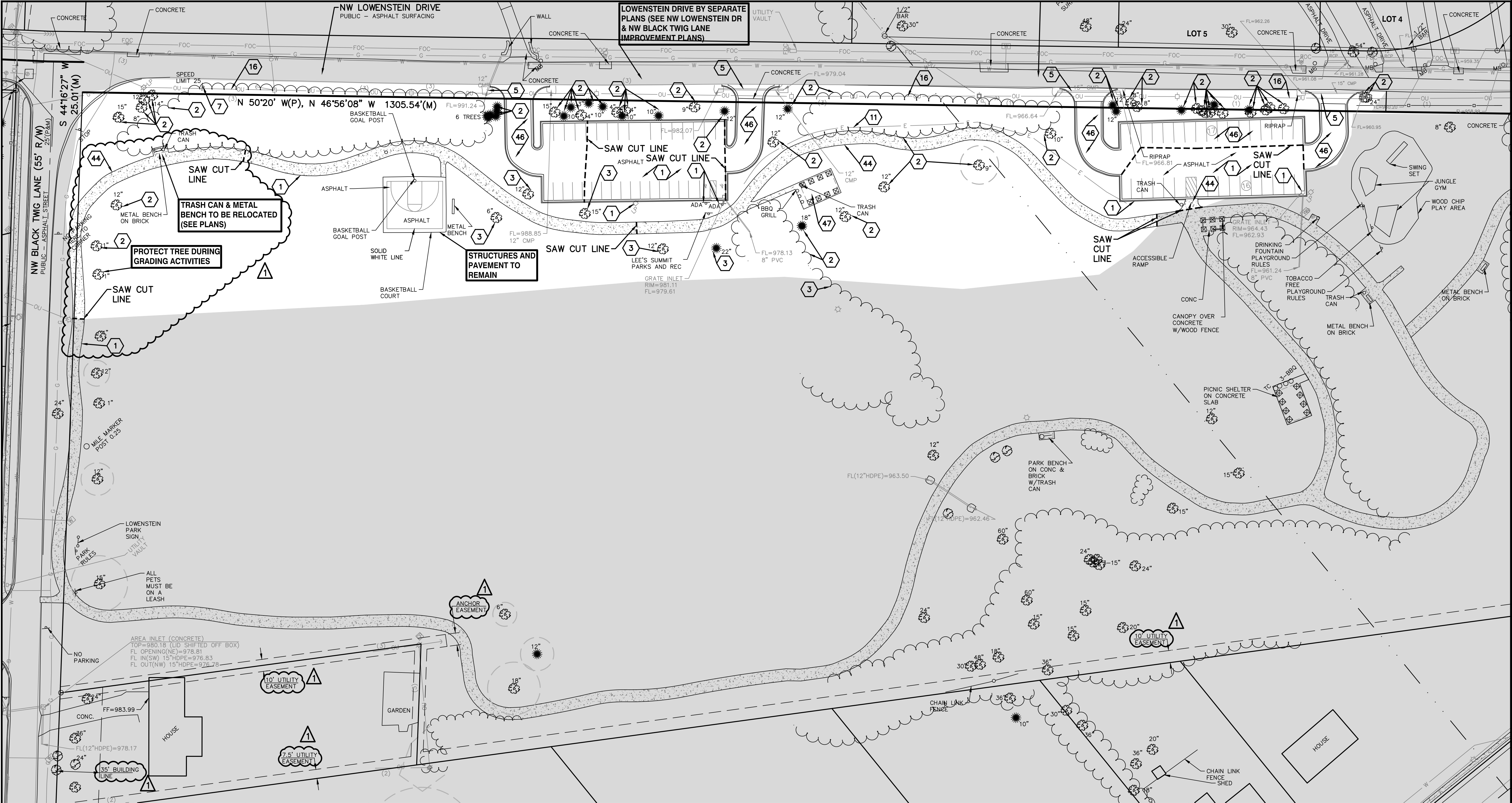
PROJ. NO.		A14_7067-1	
DESIGNER		DRAWN BY	
LDO		BKR	
CFN			
7067-1P_TS			
SHEET		REV	
C-1		1	

CONSTRUCTION NOTES:

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. 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.
5. 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.
6. CONTRACTOR SHALL SUBMIT A JOINTING PLAN AND RECEIVE APPROVAL FROM THE ENGINEER AND CITY PRIOR TO CONCRETE PAVING OPERATIONS.
7. 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.
8. 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.
9. CONTRACTOR SHALL COMPLETE ROUGH SITE AND STREET GRADING PRIOR TO INSTALLATION OF UTILITIES.

LEGEND			
	SECTION CORNER, ORIGIN UNKNOWN UNLESS OTHERWISE NOTED		STORM SEWER MANHOLE
			TELEPHONE SIGN
	MONUMENT FOUND, ORIGIN UNCERTAIN UNLESS OTHERWISE NOTED		TELEPHONE MANHOLE
	DESCRIBED		TELEPHONE PEDESTAL
	MEASURED		UNDERGROUND TELEPHONE LINE
	CALCULATED		SPLICE BOX
	PLATTED		FIBER OPTIC CABLE SIGN
	STREET SIGN		UNDERGROUND FIBER OPTIC CABLE
	UTILITY POLE		TRAFFIC CONTROL POLE
	UTILITY POLE W/ LIGHT		PULL BOX
	UTILITY POLE W/TRANSFORMER		FLAG POLE
	LIGHT POLE		MAILBOX
	DEADMAN ANCHOR		HANDICAP SIGN
	OVERHEAD UTILITY - # LINES		HANDICAP PAINTED SYMBOL
	AIR CONDITIONING UNIT		LEFT TURN ARROW
	ELECTRIC PEDESTAL		STRAIGHT ARROW
	ELECTRIC METER		RIGHT TURN ARROW
	UNDERGROUND ELECTRIC LINE		GATE POST
	UTILITY MANHOLE		FENCE POST
	CABLE TV SIGN		WOOD FENCE
	CABLE TV PEDESTAL		CHAIN LINK FENCE
	GAS SIGN		BARBED WIRE FENCE
	GAS METER		DECIDUOUS TREE W/SIZE & DRIP LINE
	UNDERGROUND GAS LINE		EVERGREEN TREE W/SIZE & DRIP LINE
	GAS CATHODIC PROTECTION STATION		SAPPLING TREE
	WATER LINE		SHRUB
	WATER LINE GATE VALVE		STUMP
	WATER SPIGOT		TREE LINE
	WATER METER		SHRUB LINE
	WELL		PARKING STALL COUNT
	FIRE HYDRANT		1' CONTOUR INTERVAL
	SANITARY SEWER MANHOLE		RESTRICTED ACCESS
	SANITARY SEWER LINE		BACK OF CURB TO BACK OF CURB
			EDGE TO EDGE

	LDO	CHK
	BKR	DWN
	LDO	DSN
	INITIAL ISSUE	DESCRIPTION
	6-18-19	DATE
0	REV	REV
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@kveeng.com www.kveeng.com		
KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19		
STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI		
LOWENSTEIN PARK IMPROVEMENTS GENERAL NOTES		
PROJ. NO. A14_7067-1		
DESIGNER	DRAWN BY	
LDO	BKR	
CFN		
7067-1P_GEN		
SHEET	REV	
C-2	0	



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.

- GENERAL NOTES:**
- 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.
 - ALL UTILITY PIPE LINES TO BE ABANDONED SHALL BE PLUGGED PER CITY AND STATE REGULATIONS.
 - 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.
 - ALL PAVING WITHIN PROPERTY TO BE REMOVED AND DISPOSED OF IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
 - ALL EXISTING UTILITIES ETC. LOCATED WITHIN THE BOUNDARIES OF THE PROPOSED BUILDING SHALL BE COMPLETELY REMOVED TO 10 FEET OUTSIDE OF BUILDING LINE.
 - 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.
 - CONTRACTOR SHALL VERIFY THAT ALL UTILITIES TO EXISTING STRUCTURES HAVE BEEN DISCONNECTED PRIOR TO COMMENCING DEMOLITION.
 - EXISTING POWER LINES AND APPURTENANCES TO BE RELOCATED BY KANSAS CITY POWER & LIGHT.

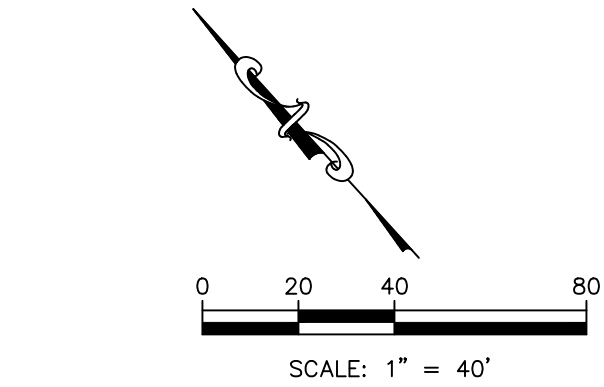
- TREE LINES AND INDIVIDUAL TREES SHOWN ARE BASED ON ORIGINAL SURVEY. INITIAL CLEARING AND GRUBBING HAS BEEN COMPLETED. CONTRACTOR SHALL REMOVE ANY ADDITIONAL TREES AND SHRUB IN AREAS INDICATED FOR GRADING AND DEMOLITION.
- COORDINATE WITH KAW VALLEY ENGINEERING PRIOR TO REMOVAL OF SECTION MONUMENTS 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.
- 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.
- KCPL TRANSMISSION MAIN SHALL REMAIN IN PLACE DURING DEMOLITION. FOLLOW ALL KCPL REQUIREMENTS CONCERNING WORK IN THEIR EASEMENT AND IN PROXIMITY TO THEIR LINES, INCLUDING PROTECTION OF POLES AND SAFE WORKING DISTANCES FROM LINES.

DEMOLITION NOTES:

- 1 TO REMAIN
- 2 REMOVE TREES
- 3 TREES TO REMAIN
- 5 REMOVE PIPE AND RIPRAP
- 7 SIGN TO BE RELOCATED
- 11 TO BE REMOVED BY ELECTRIC COMPANY
- 16 TO BE RELOCATED BY ELECTRIC COMPANY
- 44 CONTRACTOR TO REMOVE (SIDEWALK)
- 46 CONTRACTOR TO REMOVE PAVING AND CURBS TO EXISTING LOWENSTEIN PAVEMENT
- 47 CONTRACTOR TO REMOVE STRUCTURE, APPURTENANCES AND PAVING, COORDINATE WITH PARKS DEPARTMENT

LEGEND

NOT A PART OF DEMOLITION ACTIVITIES

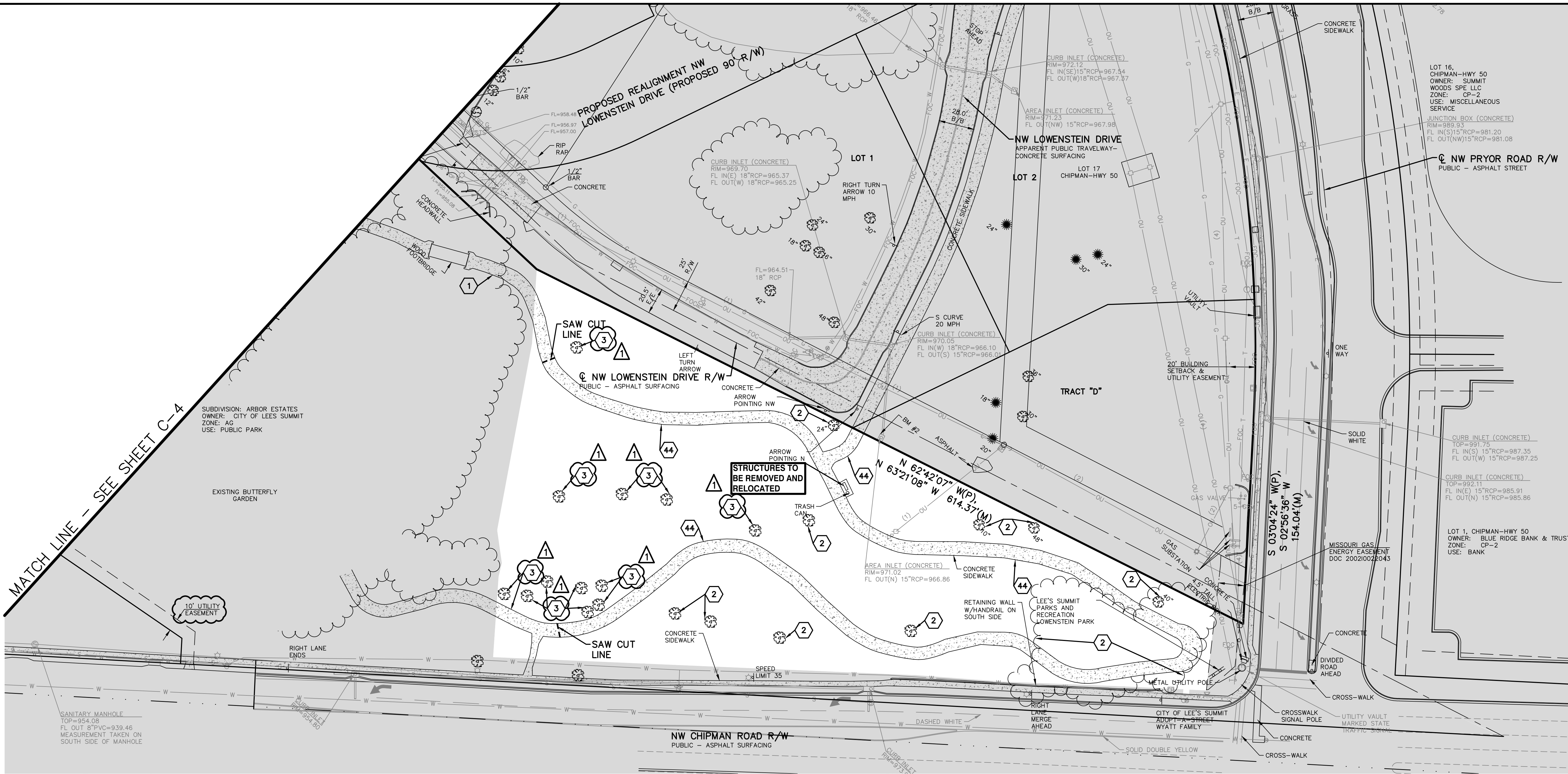


DATUM BENCHMARK:
VERTICAL DATUM IS NAVD 88 ESTABLISHED USING OPUS PROJECTS ON PROJECT CONTROL.

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=970.98

MATCH LINE — SEE SHEET C-5

STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI		LOWENSTEIN PARK IMPROVEMENTS DEMOLITION PLAN	
PROJ. NO.	A14-7067-1	DESIGNER	LDO
DRAWN BY	BKR	DATE	7-18-19
REV	0	DATE	6-18-19
DESCRIPTION	INITIAL ISSUE	REV	1
CHK	DSN	CHK	DWN
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@kve.com www.kve.com	
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN THE STATE OF MISSOURI. CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19		STATE OF MISSOURI LEON D. OSBOURN ENGINEER 7-18-19 E-21726	

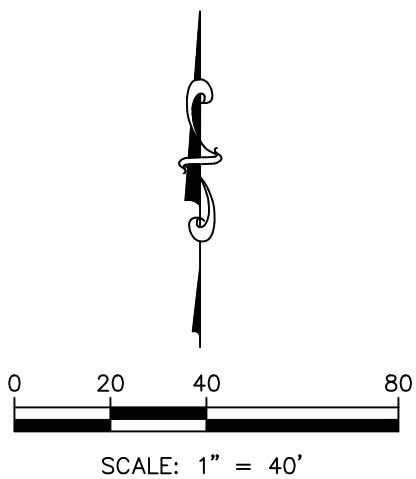


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LEGEND

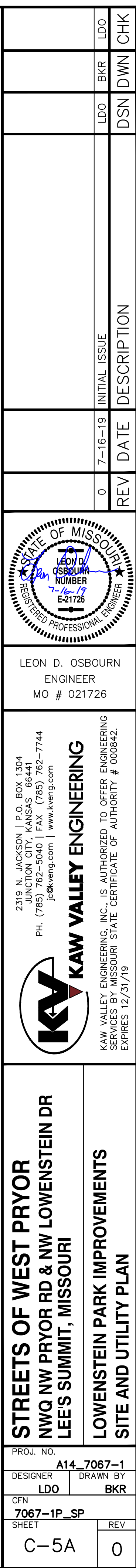
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WITH SOUTH CURB OF LOWENSTEIN DRIVE AT 90°
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STATE OF MISSOURI LEON D. OSBOURN REGISTERED PROFESSIONAL ENGINEER NO. 021726		1 7-18-19 REVISED PER CITY COMMENT		LDO		LDO	
LEON D. OSBOURN ENGINEER MO # 021726		0 6-18-19 INITIAL ISSUE		LDO		LDO	
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		REV DATE DESCRIPTION		DSN		CHK	
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PROJ. NO. A14-7067-1							
DESIGNER LDO		DRAWN BY BKR					
CFN		SHEET		REV			
7067-1P-DEMO		C-5		1			



ADDED SHEET





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

LOWENSTEIN PARK IMPROVEMENTS
SITE AND UTILITY PLAN

PROJ. NO. **A14_7067-1**

DESIGNER **LDO** DRAWN BY **BKR**

CSN **7067-1P_SP**

SHEET **C-7**

2319 N. JACKSON | P.O. BOX 1304
 JUNCTION CITY, KANSAS 66441
 PH. (785) 285-7744
 www.kawvalley.com | www.kvwep.com

KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000942. EXPIRES 12/31/19

LEON D. OSBOURN
 ENGINEER
 MO # 021726

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0	6-18-19	INITIAL ISSUE

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 PH. (785) 285-7744
 www.kawvalley.com | www.kvwep.com

KAW VALLEY ENGINEERING

KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000942. EXPIRES 12/31/19

LEON D. OSBOURN
 ENGINEER
 MO # 021726

REV	DATE	DESCRIPTION
1	7-16-19	REVISED PER CITY COMMENT
0	6-18-19	INITIAL ISSUE

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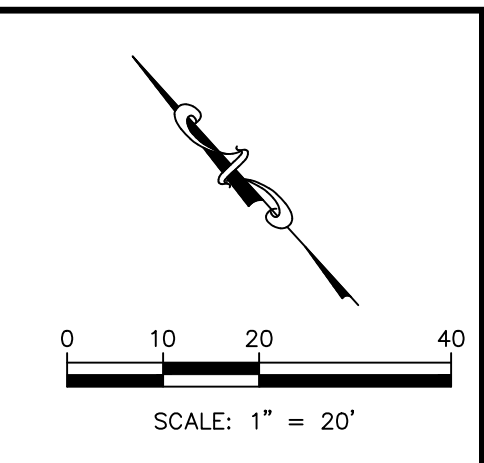
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LEON D. OSBOURN
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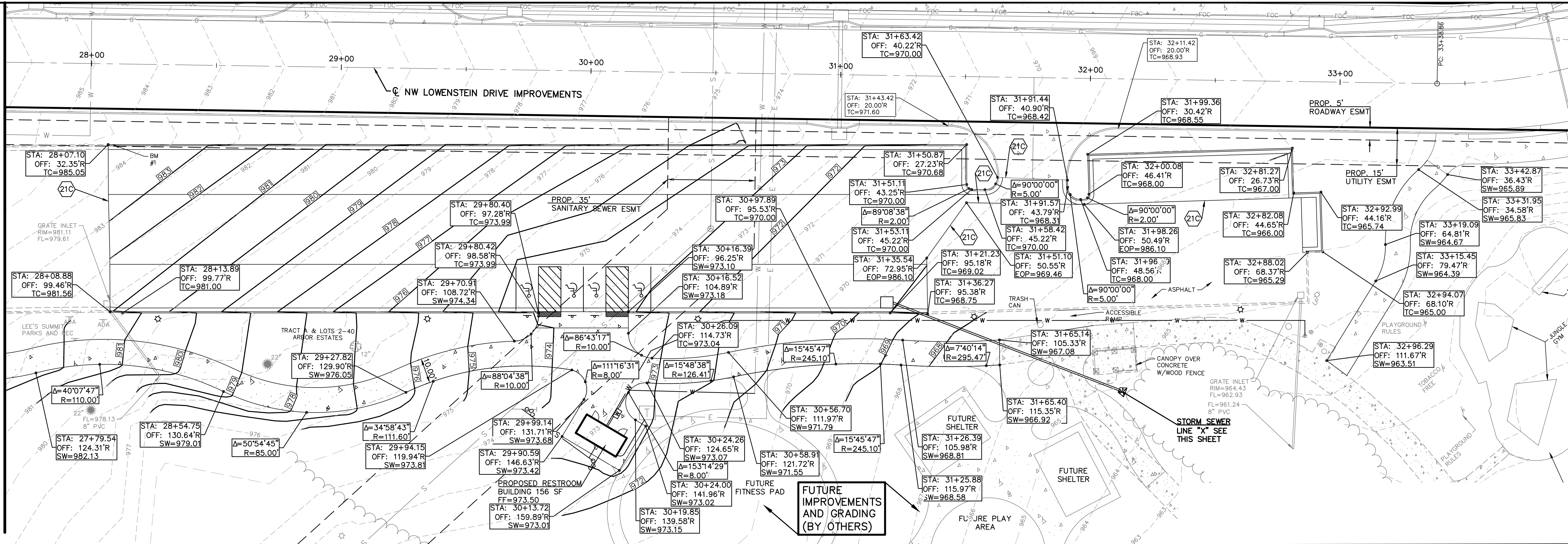
REV	DATE	DESCRIPTION
1	7-16-19	REVISED PER CITY COMMENT
0	6-18-19	INITIAL ISSUE



ADDED SHEET

STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI LOWENSTEIN PARK IMPROVEMENTS GRADING PLAN		PROJ. NO. A14_7067-1		DESIGNER LDO		DRAWN BY BKR		CFN 7067-1P_GP		SHEET C-7A		REV 0												
2319 N. JACKSON P.O. BOX 1004 JACKSON, MISSOURI 64501 PH. (785) 762-5040 FAX (785) 762-7744 jpk@kveeng.com www.kveeng.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												LEON D. OSBOURN ENGINEER MO # 021726 		0	7-18-19	REV	DATE	INITIAL ISSUE						

MATCH LINE - SEE SHEET C7-A



LEGEND (PROPOSED)

- TC TOP OF CURB
SW SIDEWALK
EOP EDGE OF PAVEMENT
974 FINISHED 1' CONTOUR INTERVALS, TOP OF PAVEMENT

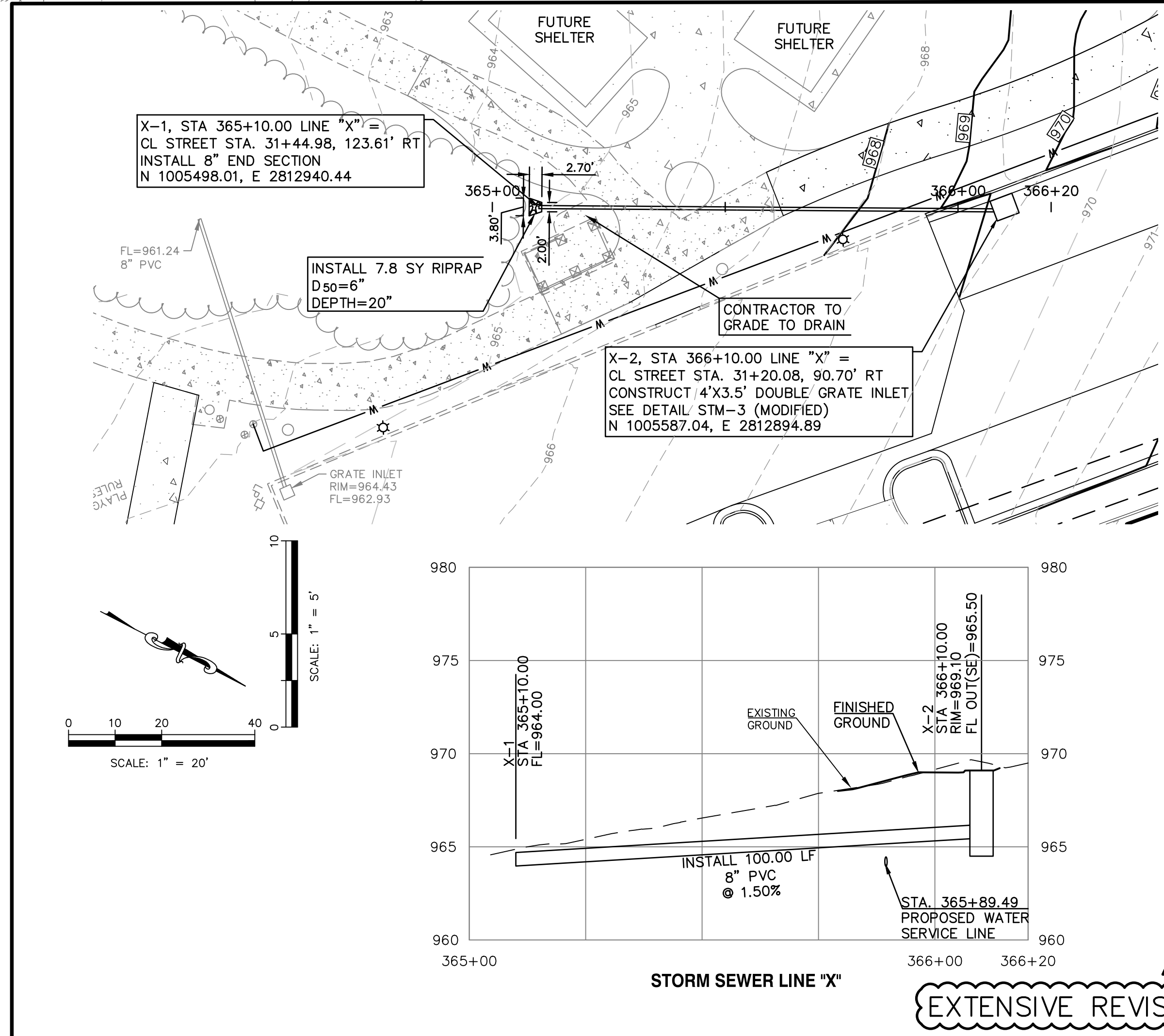
DETAILS - SEE DETAIL SHEETS NO. C-13 FOR THE FOLLOWING DETAILS

STM-3 JUNCTION BOX DETAIL

NOTES:
21C MATCH EXISTING PAVEMENT ELEVATIONS

PUBLIC STREET, STORM, WATER AND SANITARY SEWER ARE BY SEPARATE PLANS

THE COORDINATES PROVIDED IN THESE PLANS ARE FOR INFORMATION AND CHECKING PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALCULATE CONSTRUCTION STAKING COORDINATES ACCORDING TO THE DIMENSIONS SHOWN ON THESE PLANS. CONTRACTOR SHALL VERIFY THE ACCURACY OF THE COORDINATES SHOWN IN THE TABLE HEREON BEFORE CONSTRUCTION.



REV	DATE	DESCRIPTION
1	7-18-19	REVISED PER CITY COMMENT
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CHK	DSN	LDO	JD	LDO
DWN				

STATE OF MISSOURI
LEON D. OSBOURN
ENGINEER
MO # 021726

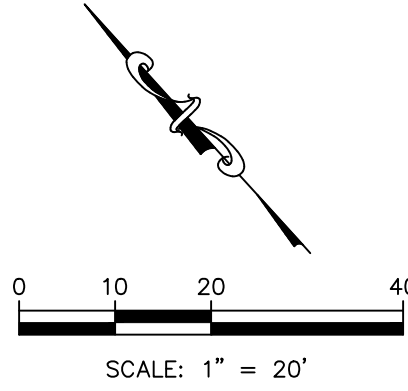
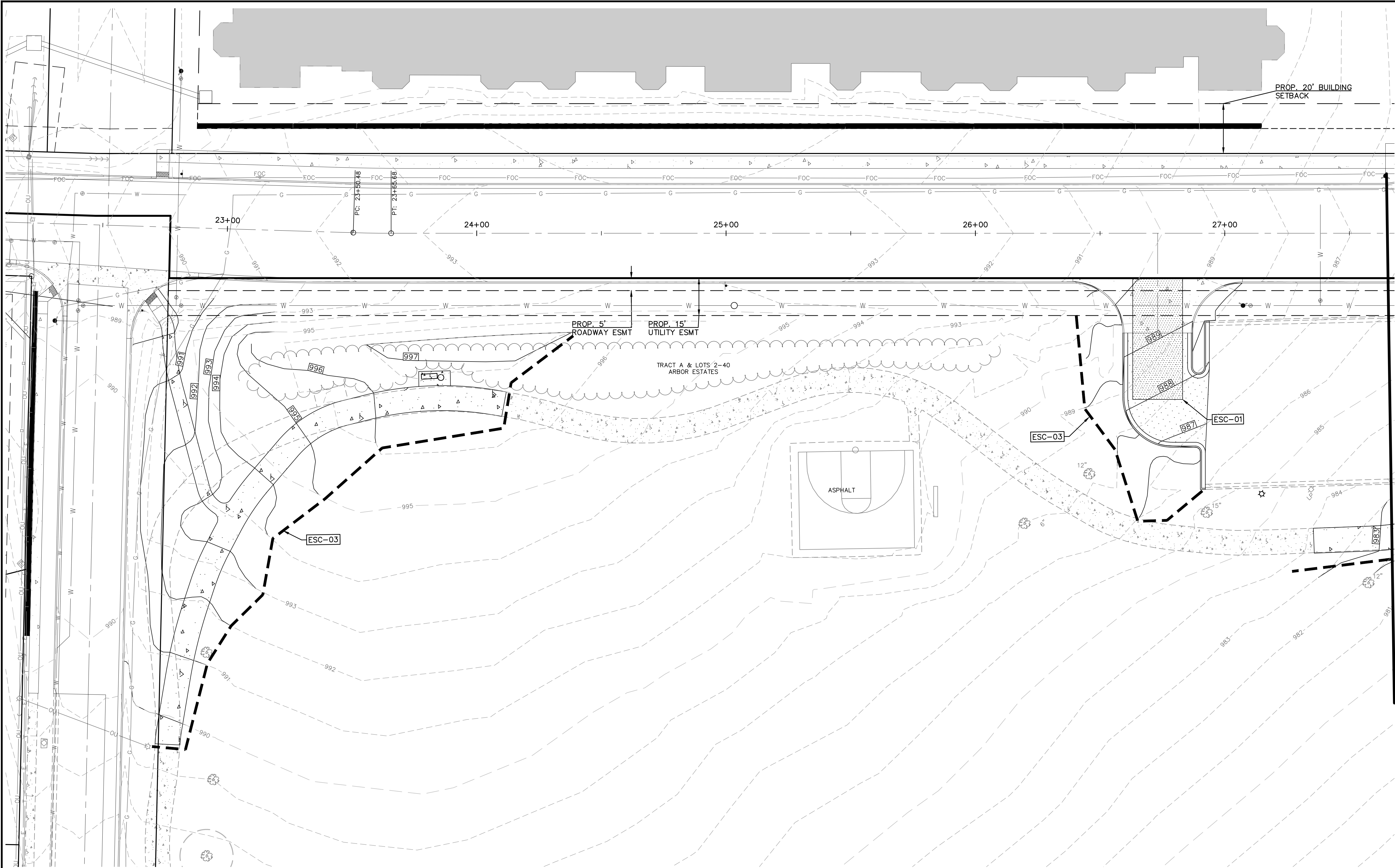
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STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

LOWENSTEIN PARK IMPROVEMENTS
GRADING PLAN & STORM SEWER LINE X - PLAN & PROFILE

PROJ. NO. **A14-7067-1**
DESIGNER **LDO** DRAWN BY **BKR**
CFN **7067-1P_GP**
SHEET **C-8** REV **1**



□ DETAILS — SEE EROSION CONTROL DETAIL SHEETS FOR THE FOLLOWING DETAILS

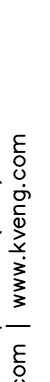
ESC-01 CONSTRUCTION ENTRANCE DETAIL
ESC-03 SILT FENCE
ESC-06 CURB INLET PROTECTION
ESC-14 OUTLET PROTECTION

EROSION & PROPOSED IMPROVEMENTS LEGEND:

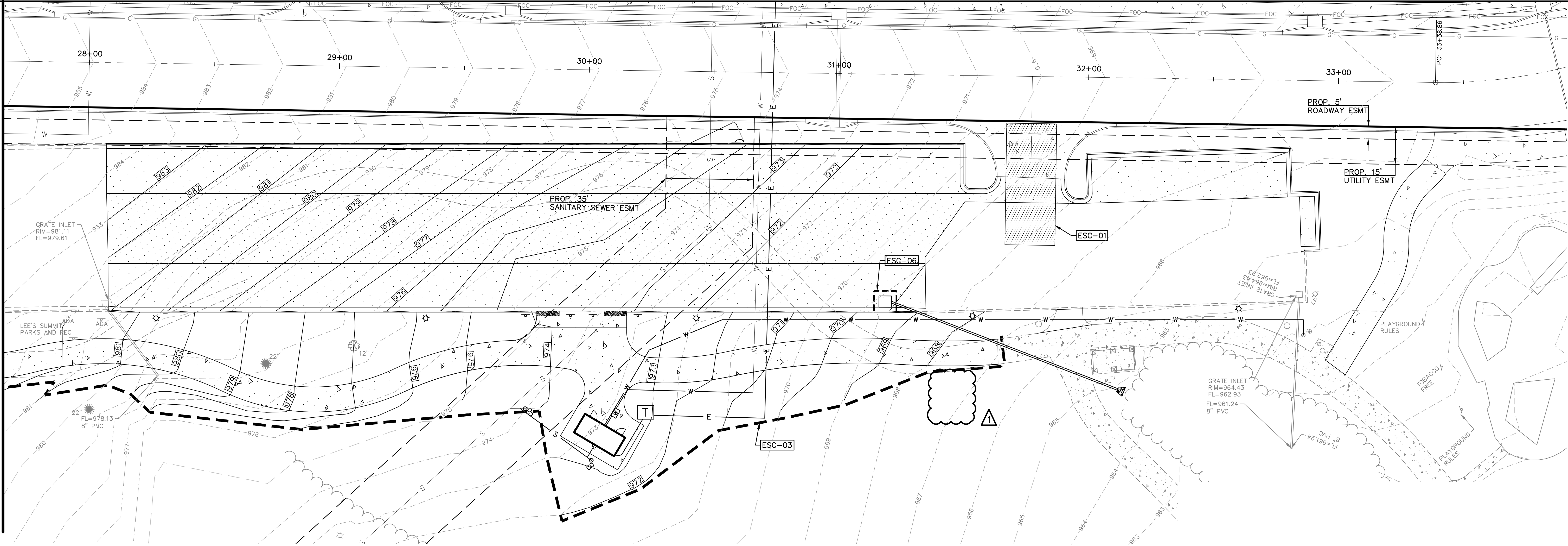
---970--- EXISTING GROUND CONTOUR (1' INTERVALS)
[970] PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)
--- SILT FENCE
-- INLET PROTECTION

PUBLIC STREET, STORM, WATER
AND SANITARY SEWER ARE BY
SEPARATE PLANS

ADDED SHEET

STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI		LOWENSTEIN PARK IMPROVEMENTS EROSION CONTROL PLAN		PROJ. NO. A14-7067-1	
DESIGNER LDO		DRAWN BY BKR		CFN	
SHEET C-9A		REV 0		7067-1P_ECP	
2319 N. JACKSON, P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 PH. (785) 762-5040 FAX. (785) 762-7744 jk@kveeng.com www.kveeng.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	
LEON D. OSBOURN ENGINEER MO # 021726				REV 0 DATE 7-16-19 DESCRIPTION INITIAL ISSUE	
				LDO BKR DSN DWN CHK	

MATCH LINE – SEE SHEET C9-A



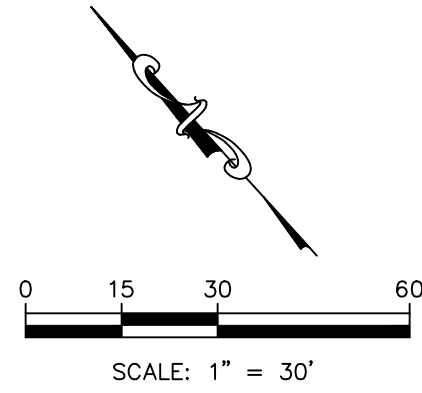
GENERAL NOTES:

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.

- 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-14 OUTLET PROTECTION

- EROSION & PROPOSED IMPROVEMENTS LEGEND:**
- 970--- EXISTING GROUND CONTOUR (1' INTERVALS)
 - [970] PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)
 - SILT FENCE
 - INLET PROTECTION



CONTRACTOR TO COORDINATE EROSION CONTROL WITH MASS GRADING CONSTRUCTION IN PHASES

PUBLIC STREET, STORM, WATER AND SANITARY SEWER ARE BY SEPARATE PLANS

STATE OF MISSOURI LEON D. OSBOURN ENGINEER NO. 021726		REV	DATE	DESCRIPTION
1	7-18-19	REVISED PER CITY COMMENT		
0	6-18-19	INITIAL ISSUE		
		DSN	DWN	CHK

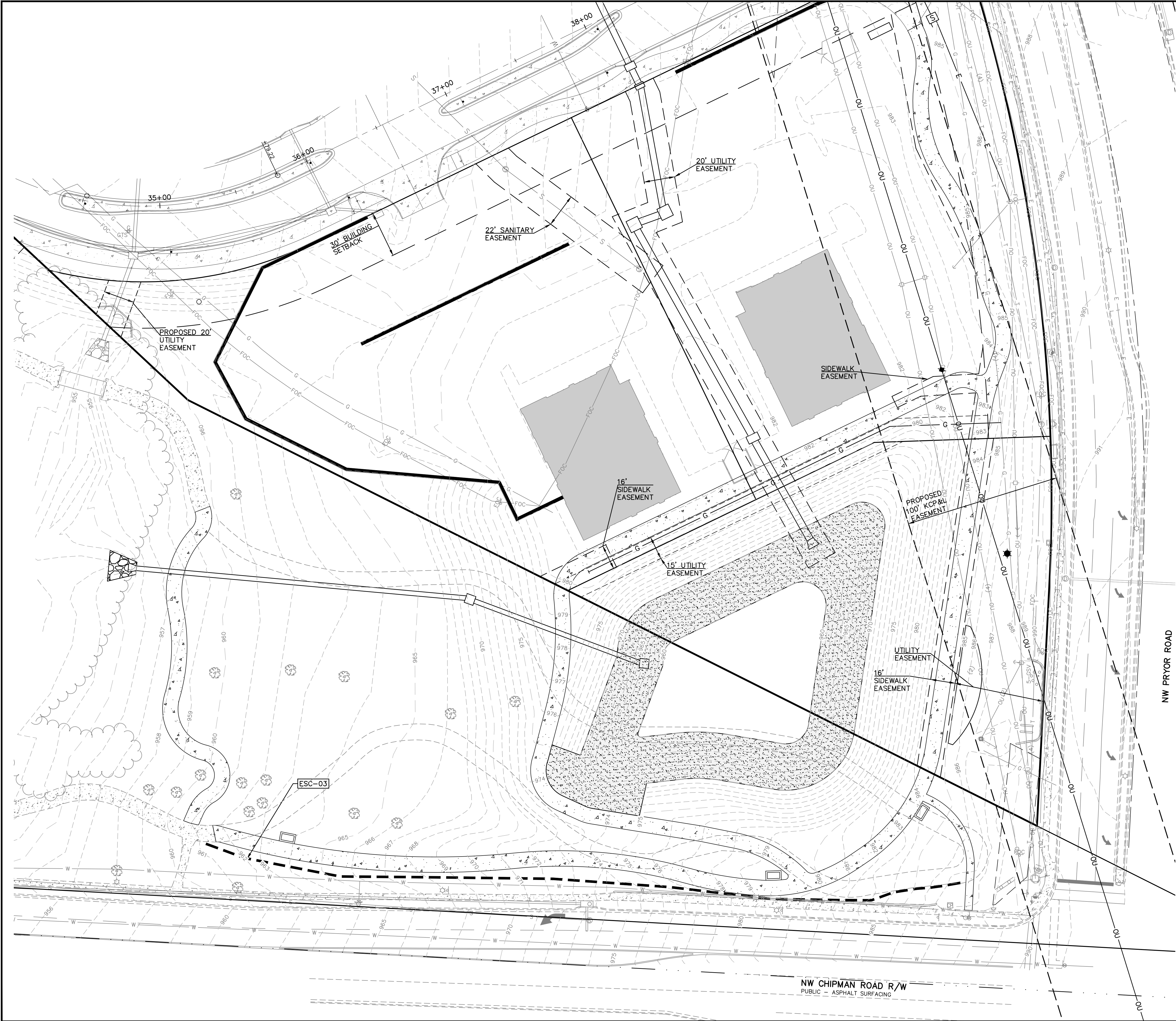
2319 N. JACKSON | P.O. BOX 1304
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STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

LOWENSTEIN PARK IMPROVEMENTS
EROSION CONTROL PLAN

PROJ. NO. **A14-7067-1**
DESIGNER **LDO** DRAWN BY **BKR**
CFN **7067-1P_ECP**
SHEET **C-10** REV **1**



- 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-14 OUTLET PROTECTION
- EROSION & PROPOSED IMPROVEMENTS LEGEND:**
- 970 — EXISTING GROUND CONTOUR (1' INTERVALS)
— 970 — PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS)
— — SILT FENCE
— — INLET PROTECTION

PUBLIC STREET, STORM, WATER
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SEPARATE PLANS

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PROJ. NO. A14-7067-1	
DESIGNER LDO	DRAWN BY BKR
CFN 7067-1P_ECP	REV
SHEET C-11	0

STATE OF MISSOURI LEON D. OSBOURN ENGINEER NUMBER E21726 REGISTERED PROFESSIONAL ENGINEER	REV 0 DATE 6-18-19 DESCRIPTION INITIAL ISSUE LDO BKR DSN DWN CHK
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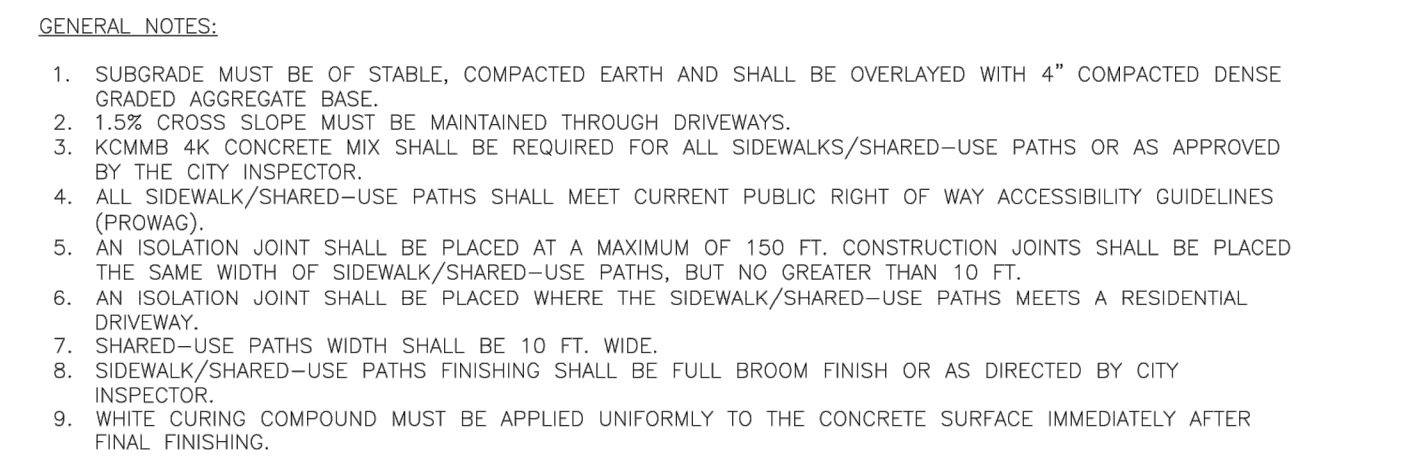
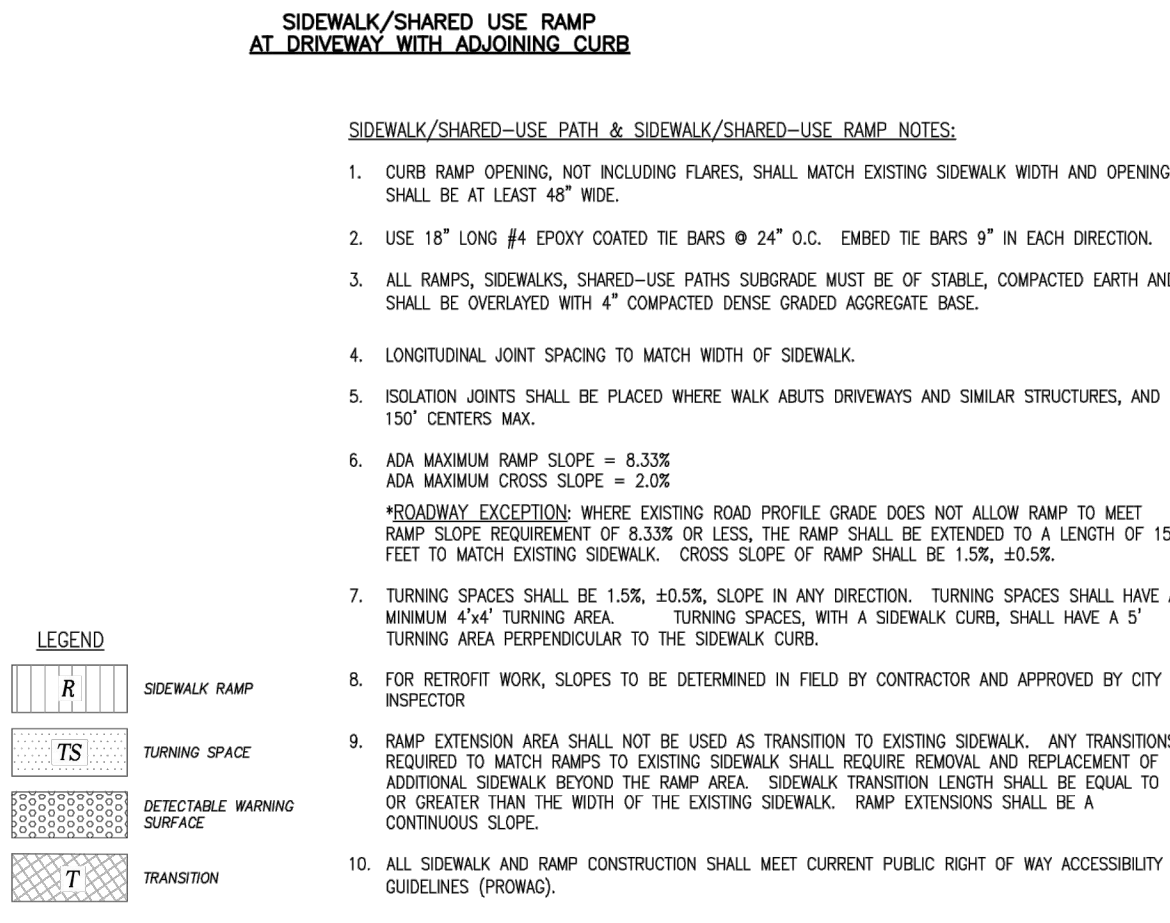
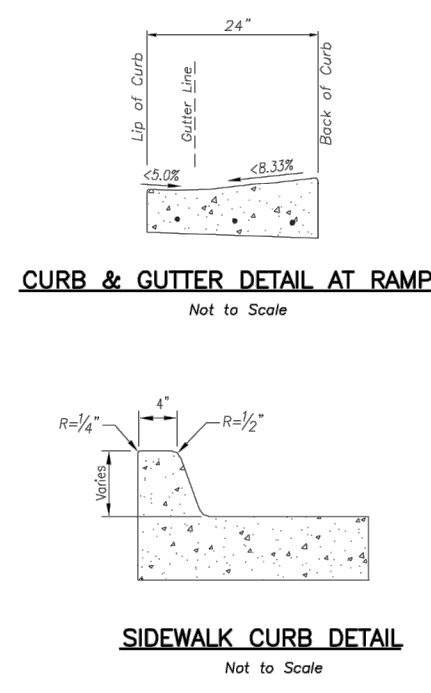
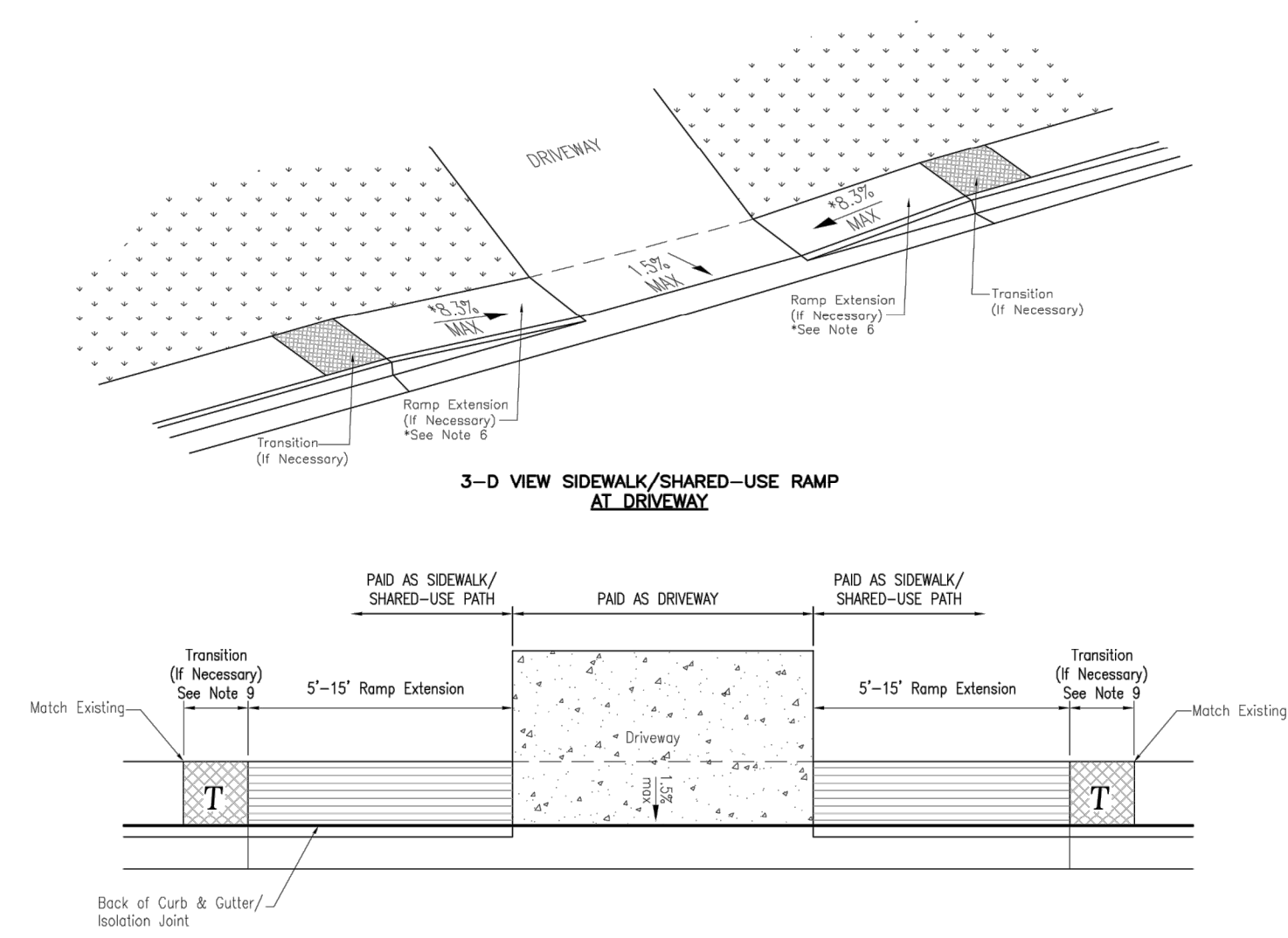
STREETS OF WEST PRYOR
NWQ NW PRYOR RD & NW LOWENSTEIN DR
LEE'S SUMMIT, MISSOURI

LOWENSTEIN PARK IMPROVEMENTS
EROSION CONTROL PLAN

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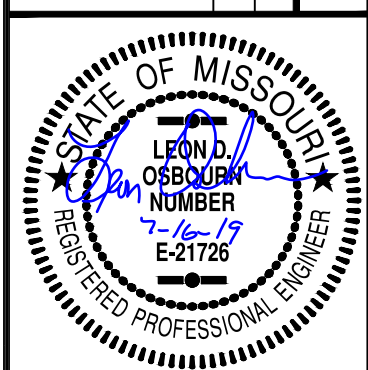
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EXPIRES 12/31/19



GEN-33	PROJECT: STANDARD DETAILS CITY OF LEE'S SUMMIT, MO LEE'S SUMMIT, JACKSON COUNTY, MO	 LEE'S SUMMIT MISSOURI PUBLIC WORKS ENGINEERING DIVISION 2202 SE GREEN STREET LEE'S SUMMIT, MO 64086
	DATE: 04/17/24	
	DRAWN BY: MJP	
	CHECKED BY: DL	
	PROJECT NAME: ADA RAMP RETROFIT DETAIL	

	LEE'S SUMMIT MISSOURI PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063		Date: 04/17 Drawn By: MJF Checked By: DL
	SIDEWALK/SHARED-USE PATH DETAIL		GEN-2

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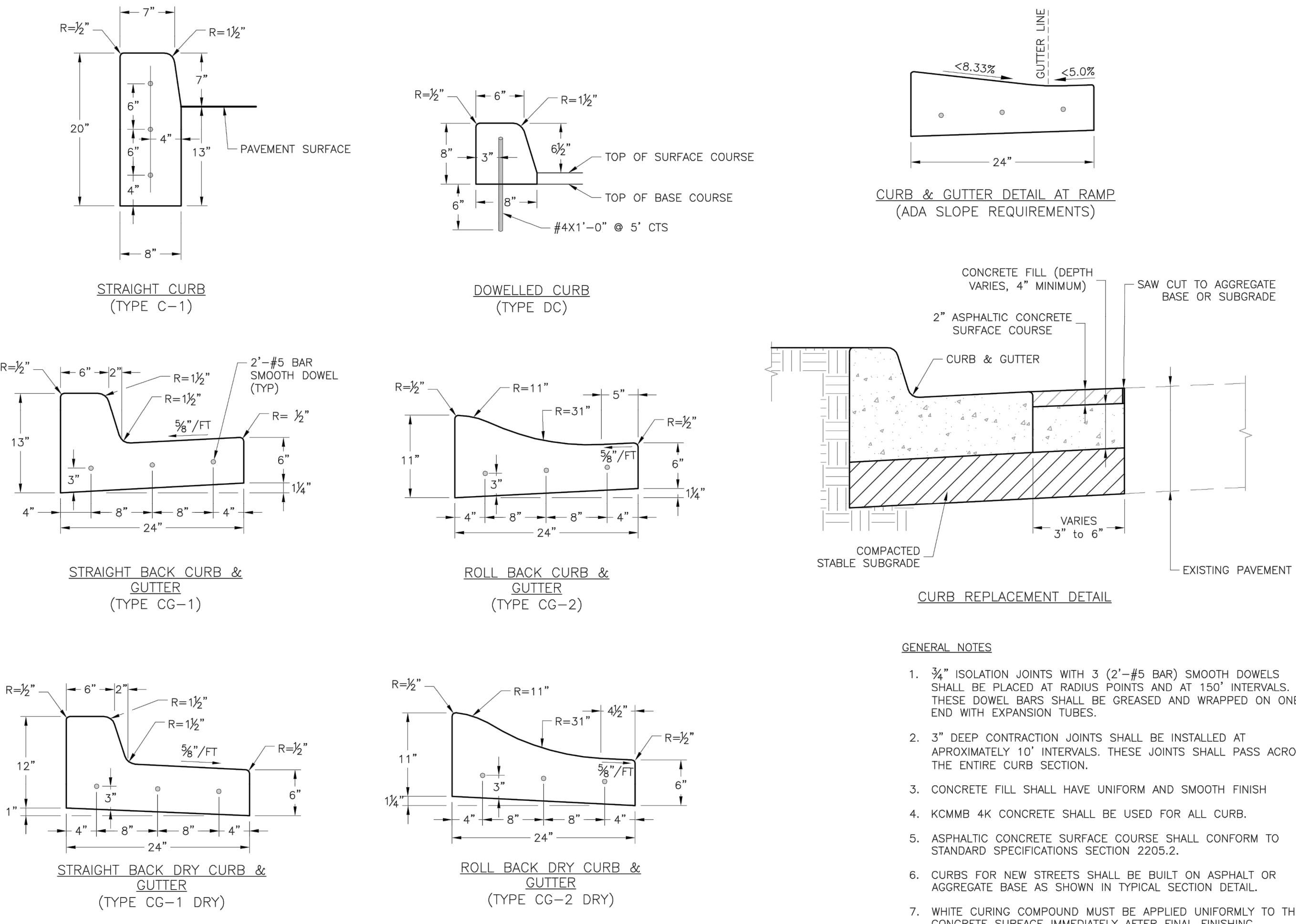
LEON D. OSBOURN
ENGINEER
MO # 021726

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KAW VALLEY ENGINEERING

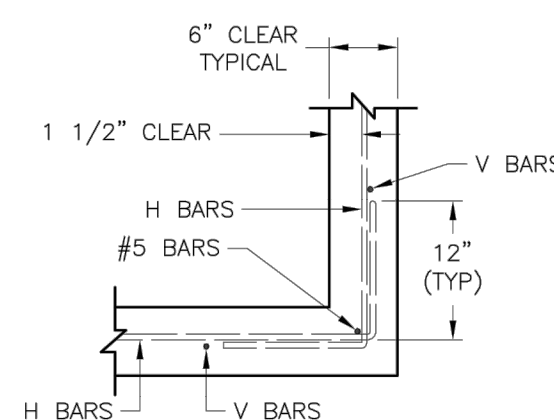
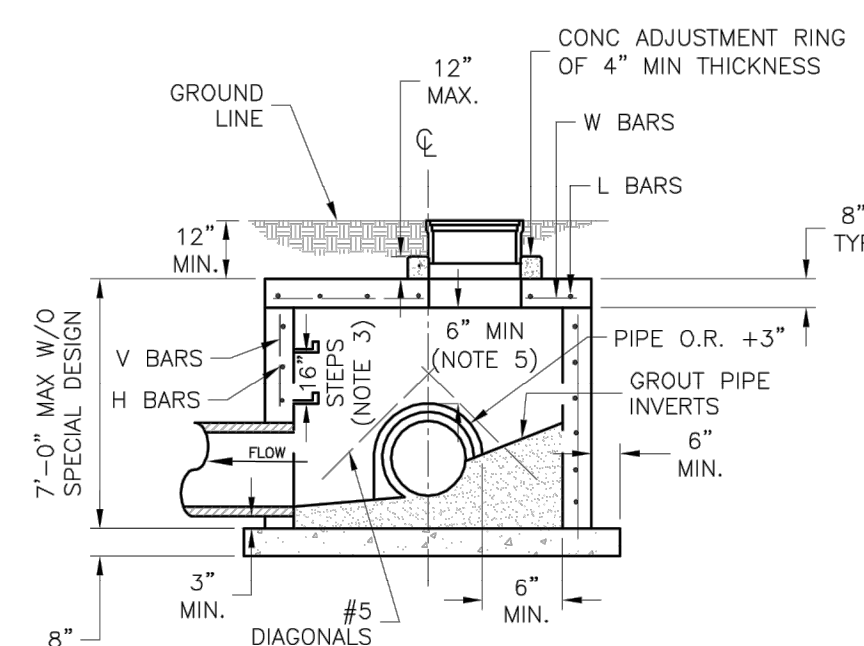
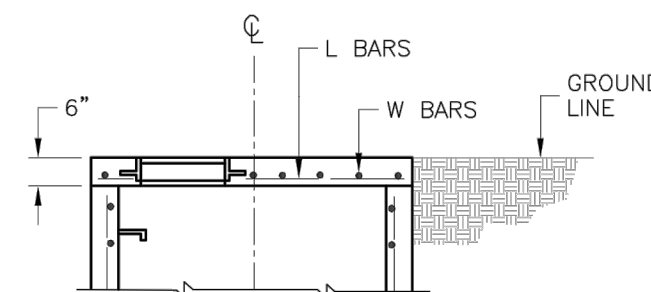
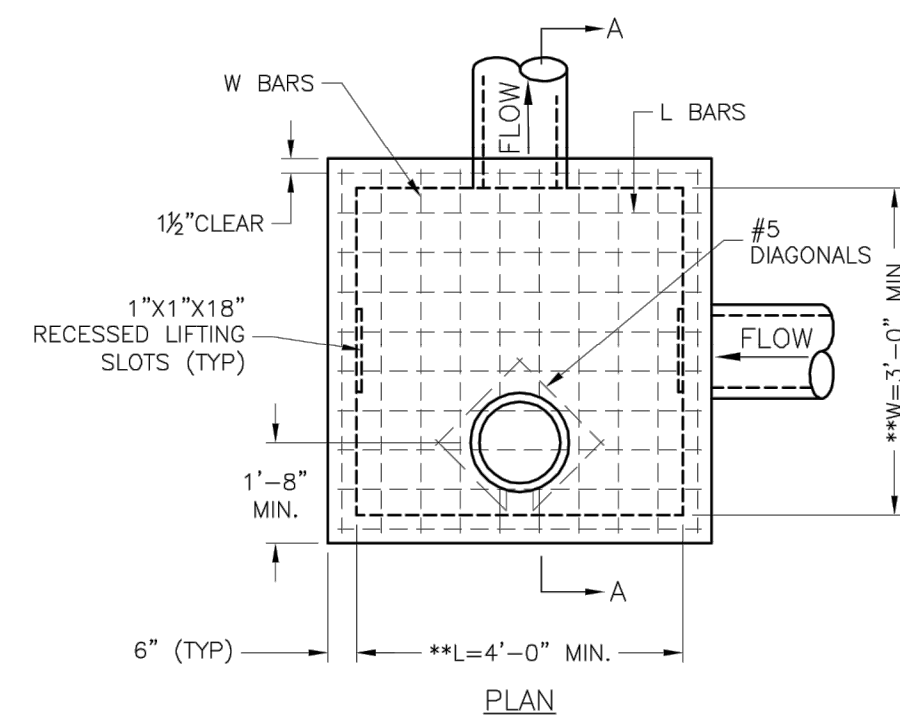
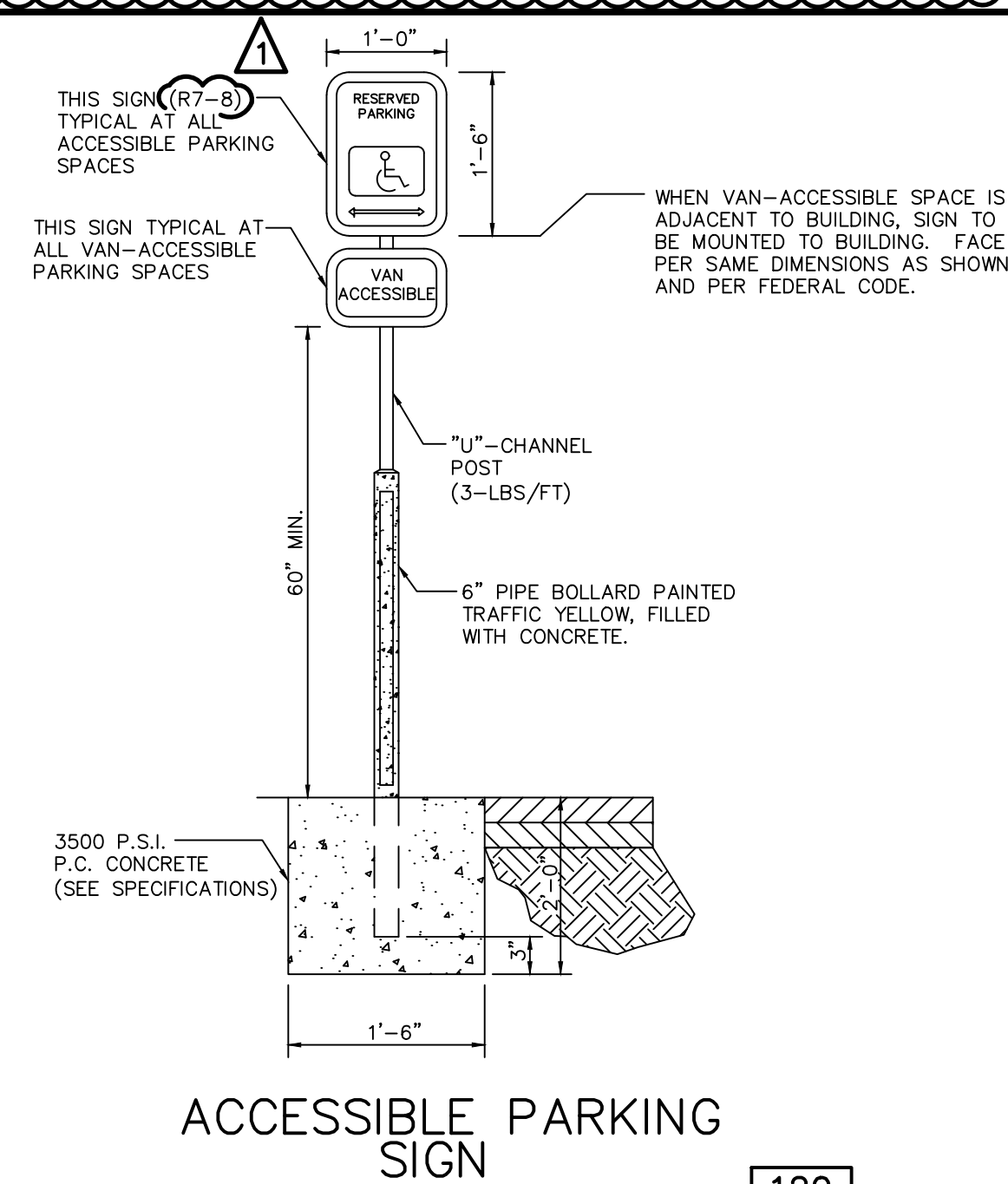
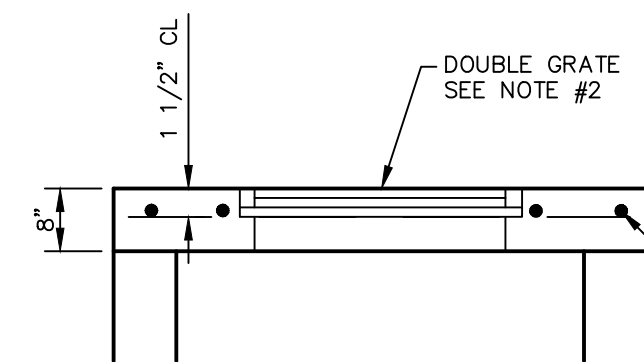
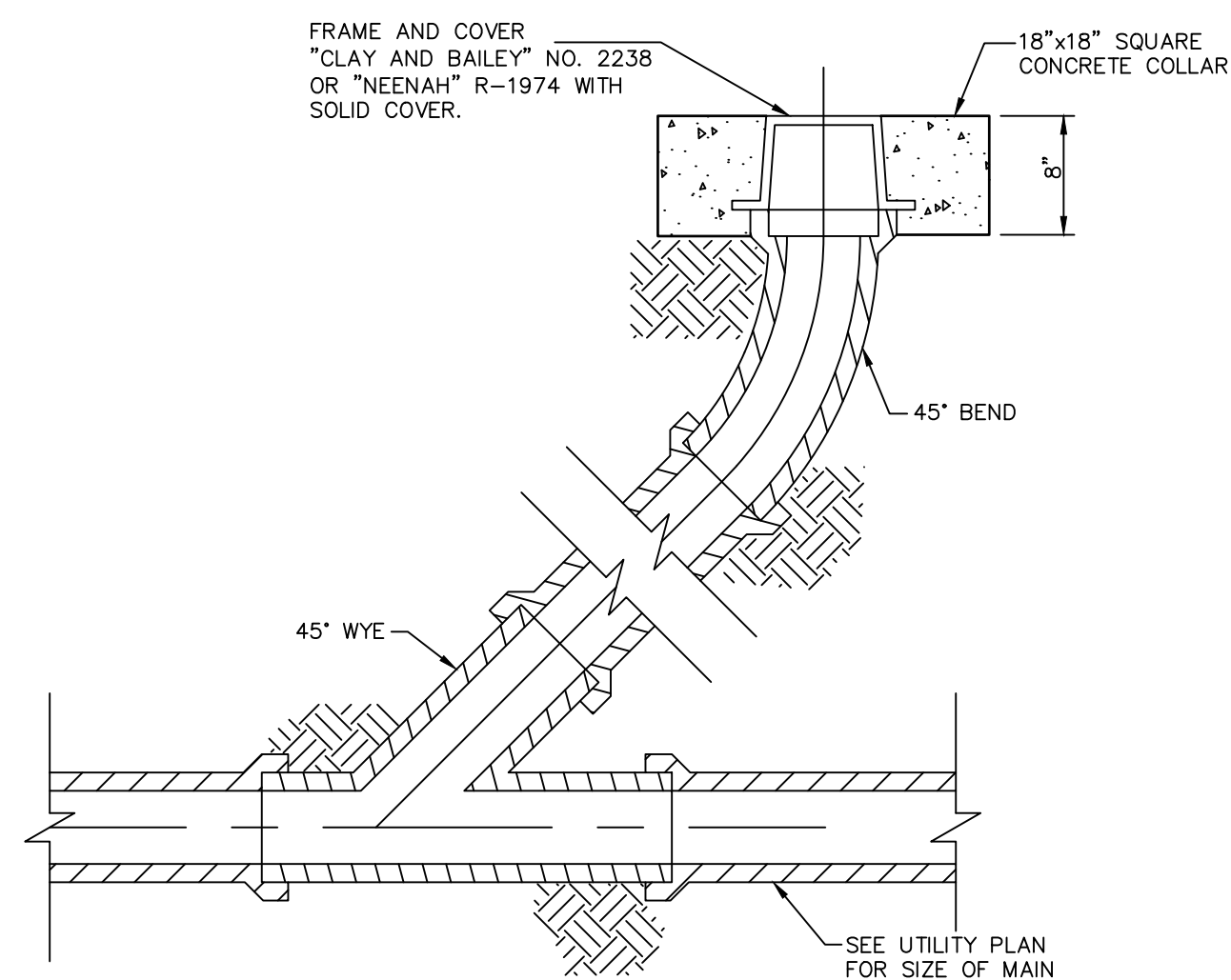
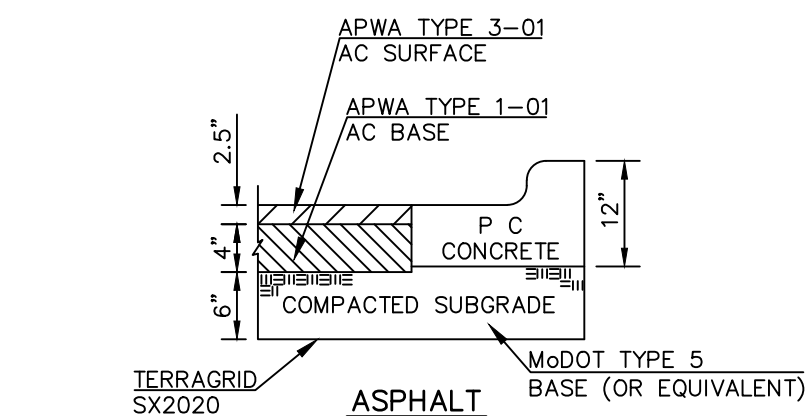
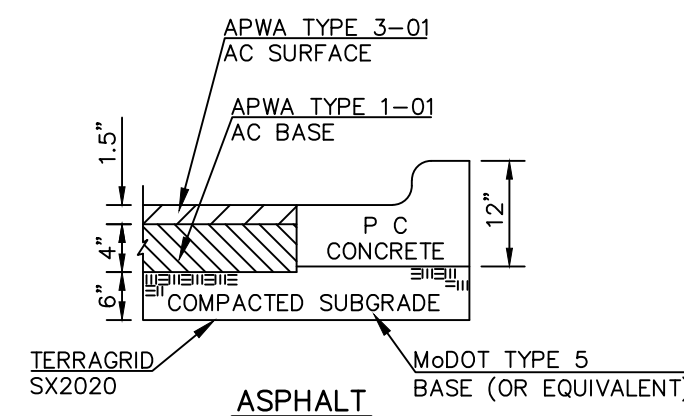
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EXPIRES 12/31/19

STREETS OF WEST PRYOR NWQ NW PRYOR RD & NW LOWENSTEIN DR LEE'S SUMMIT, MISSOURI		LOWENSTEIN PARK IMPROVEMENTS PAVEMENT DETAILS	
PROJ. NO. A14-7067-1			
DESIGNER LDO		DRAWN BY BKR	
CFN 7067-1P_DET			
SHEET C-12		REV 1	



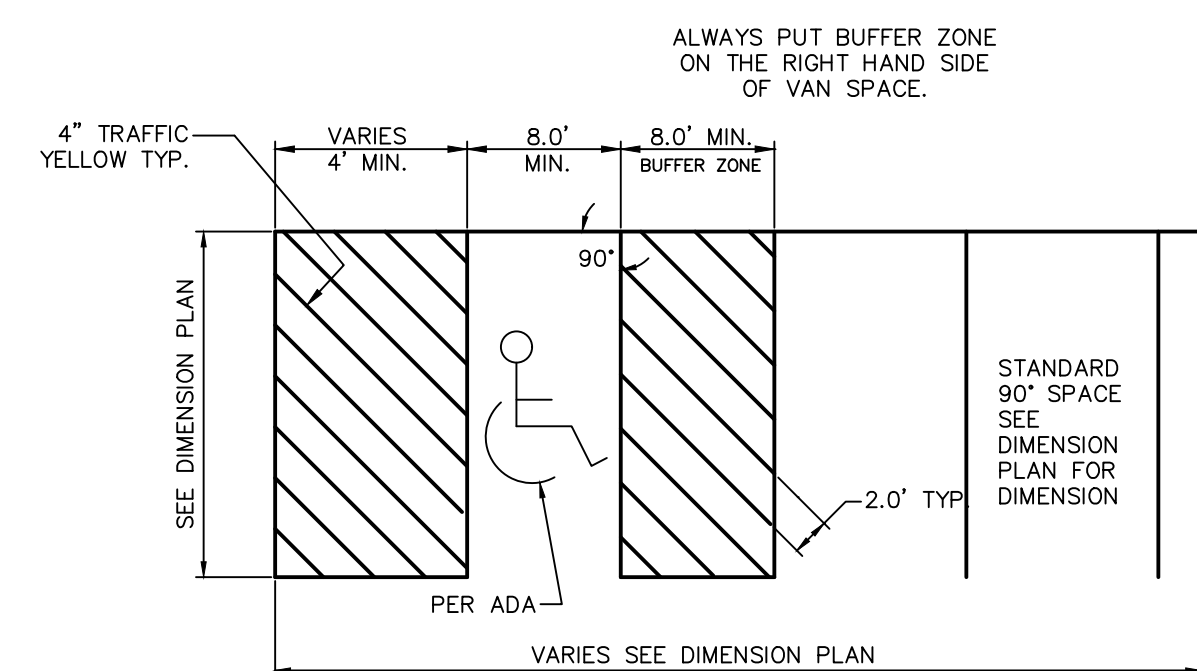
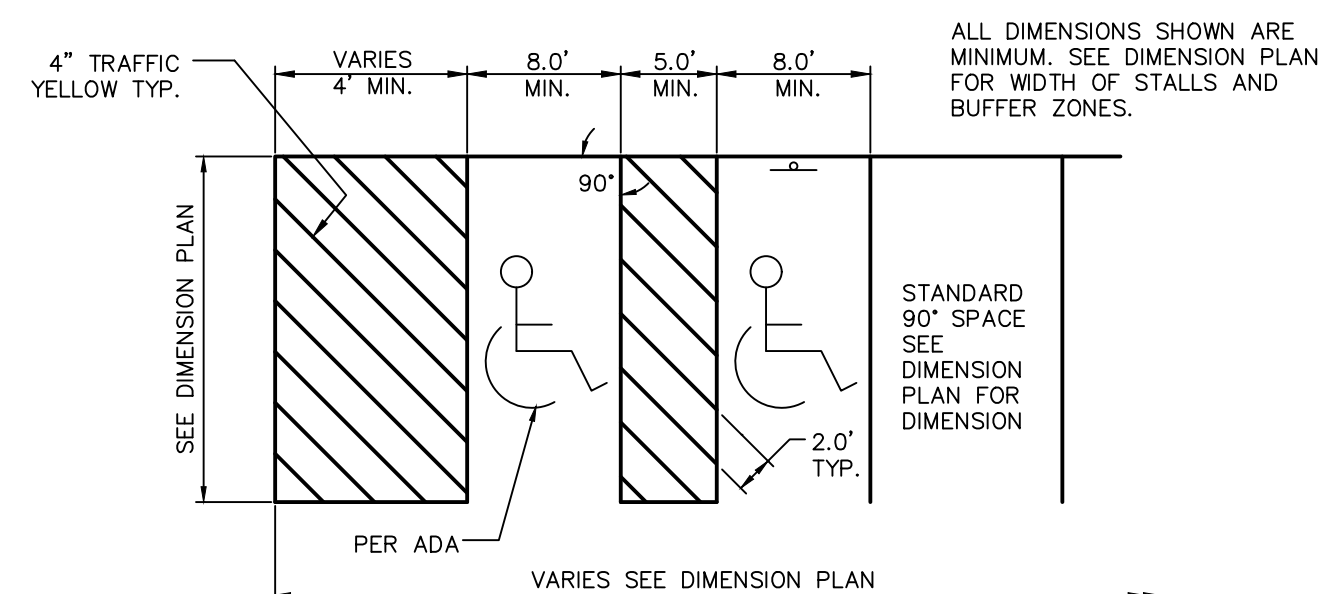
Drawn By: MEF Checked By: DL Date: 04/17 Price: \$	STANDARD DETAILS CITY OF LEE'S SUMMIT, MO LEE'S SUMMIT, JACKSON COUNTY, MO	IS LEE'S SUMMIT MISSOURI PUBLIC WORKS ENGINEERING DIVISION 220 S. GREEN STREET LEE'S SUMMIT, MO 64083
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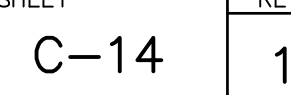


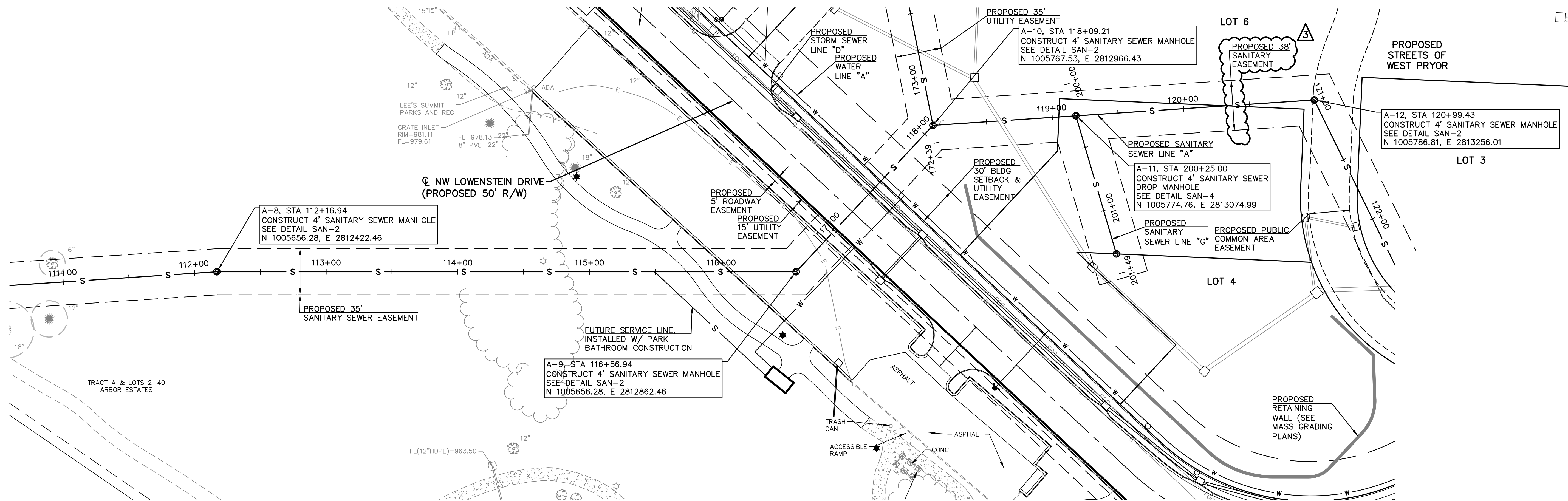
REINFORCING		
BARS	BAR SIZE	SPACING (IN.)
H	4	12
V	4	12
L	5	6
W	5	6

- GENERAL NOTES:
1. LOCATE RING AND COVER ON BLANK WALL.
2. USE $\frac{3}{8}$ " CHAMFER STRIP OR $\frac{1}{2}$ " R EDGER TOOL ON ALL EXPOSED CONCRETE CORNERS.
3. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF CASTING TO INVERT EXCEEDS 4' ON BLANK WALL IF POSSIBLE.
4. BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH THE JOINTS OF THE STRUCTURE AND THE MINIMUM DISTANCE BETWEEN BOXOUTS IS 6".
5. THE MINIMUM REINFORCING SHALL BE 1 H-BAR OVER A CASE, 2 PLACE PIPE AND 2 H-BARS OVER A PRECAST BOXOUT.
6. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON-SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
7. REINFORCING OF COVERS IN STREETS REQUIRE SPECIAL DESIGN.
8. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.



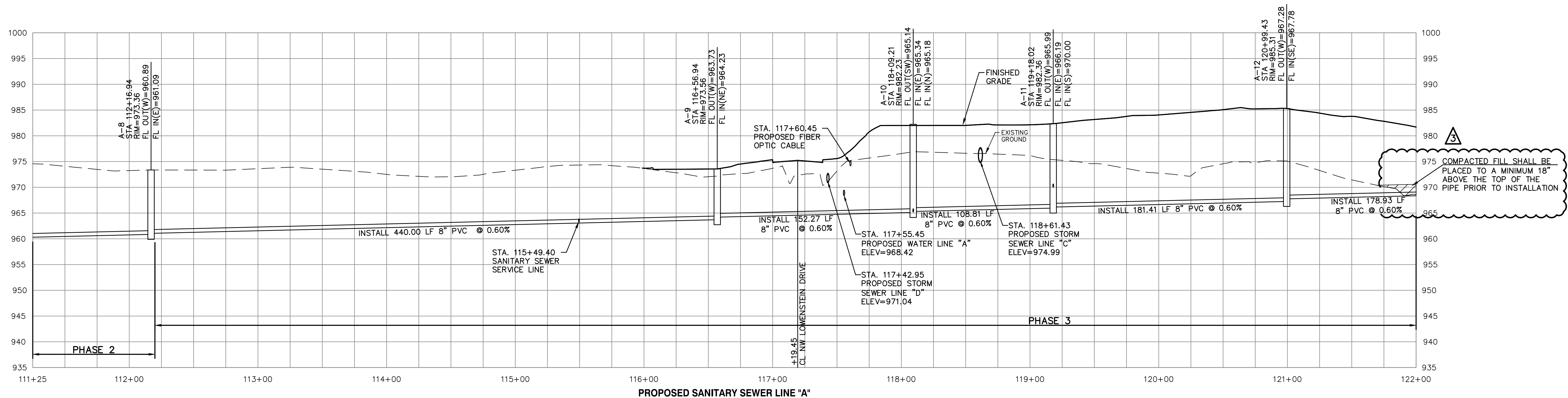
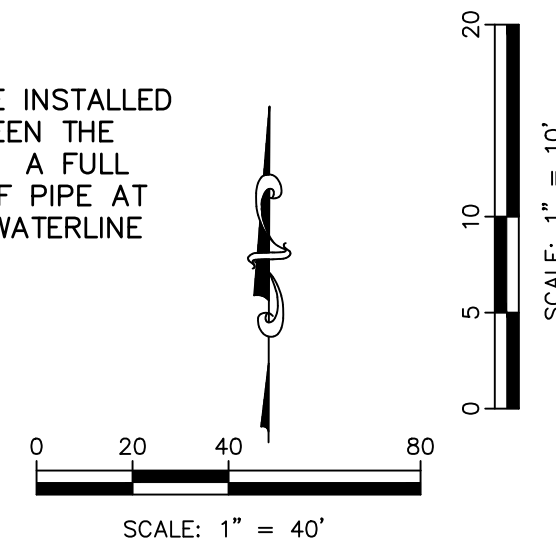
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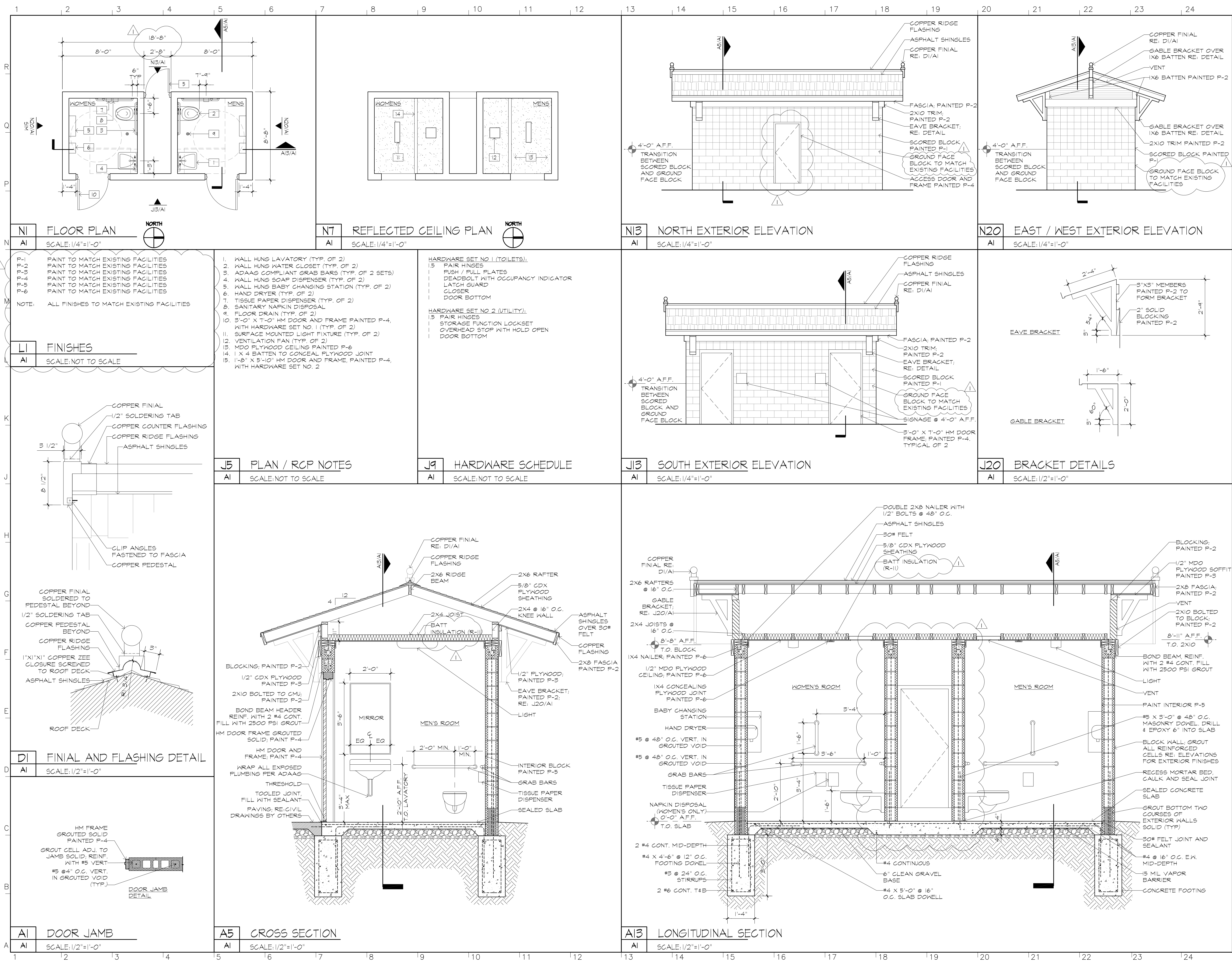
FOR REFERENCE ONLY

NOTE:
AT EACH WATER LINE CROSSING, THE SANITARY SEWER 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 SEWER PIPE SHALL BE LOCATED WITH THE CENTER OF PIPE AT THE CROSSINGS SO THAT BOTH JOINTS ARE AS FAR FROM THE WATERLINE AS POSSIBLE.



PUBLIC STREET, STORM & WATER
ARE BY SEPARATE PLANS

PROJ. NO. A14-7067-1		DESIGNER LDO	DRAWN BY JT/BKR
CFN 7067-1S_SPP		C-5	3
SHEET		REV	3
STREETS OF WEST PRYOR NWQ NW PRYOR ROAD & NW LOWENSTEIN DRIVE LEE'S SUMMIT, MISSOURI		SANITARY SEWER PLANS SANITARY SEWER LINE A	
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 jke@kvw.com www.kvw.com KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/19	
REV		DATE	DESCRIPTION
3	4-15-19		REVISED PER CITY COMMENT
2	2-26-19		REVISED PER CITY COMMENT
1	1-23-19		REVISED PER CITY COMMENT
0	1-8-19		INITIAL ISSUE
DSN		DWN	CHK
		JT	LDO
		JT	LDO
		JT/BKR	LDO



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LOWENSTEIN PARK

2050 NW Lowenstein Dr.
Lee's Summit, MO 64081
Project No. 2019-075

MEP CONSULTANT:
LANKFORD FENDLER & ASSOCIATES
1730 WALNUT ST, KANSAS CITY, MO, 64108
816.221.1411

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ISSUED FOR:	
BUILDING PERMIT	19 JUNE 2019
REVISED PER CITY COMMENT 16 JULY 2019	

PLANS, SECTIONS,
ELEVATIONS
AND DETAILS

A1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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22, 23 & 26 - 1
SECTION 22, 23 AND 26 - GENERAL PROVISIONS

- 1.0 DESCRIPTION:
- A. Divisions 22, 23 and 26 shall be governed by all applicable provisions of the Contract Document.
- B. The Contractor shall furnish, install and connect all materials, equipment, apparatuses, and incidentals required for a complete and working installation. For all systems shown and required, the Contractor shall supply all necessary labor, equipment, tools, insurance, and tax services, and shall assume full responsibility for all obligations associated with completion of work as provided by the Contract Documents.
- 2.0 STANDARDS, REGULATIONS AND CODES:
- A. Work shall comply with the edition of the applicable standards, regulations and codes currently in force of all Federal, State and local authorities having jurisdiction. Where quantities, sizes, or other requirements indicated on the drawings or herein specified are in excess of the standard or code requirements, the specifications and/or drawings shall govern. In the absence of other applicable local codes, acceptable to the Architect/Engineer, the International Set of Codes and the National Electrical Code shall apply to this work.
- B. The Contractor shall comply with rules and regulations of public utilities and municipal departments affected by connections of services. The Contractor shall pay all fees associated there with.
- C. The Contractor shall be licensed to perform associated work in the municipality in which the project is located.
- D. All products and types of construction shall meet or exceed the latest edition of applicable standards of manufacturer, testing, performance and installation.
- E. Where indicated or required, comply with all provisions of the ADA and/or the ABA Accessibility Guidelines.
- F. Where indicated or required, comply with all applicable provisions of energy and ventilation codes in force at the local jurisdiction.
- 3.0 LOCAL CONDITIONS:
- A. The Contractor shall carefully examine the local conditions and existing installations and shall become thoroughly familiar with all existing conditions which may affect associated work. The Contractor shall locate all existing utilities and protect them during the execution of the work.
- B. The Contractor shall examine all project drawings and specifications to become familiar with the type of construction, materials, and equipment, to be used for all work and how it will affect the installation of this contract.
- C. By the act of submitting a bid, the Contractor will be deemed to have made such examination, to have accepted such conditions, to have made allowance therefore, and included all costs in his proposal. Failure to determine existing conditions will not be considered a basis for the granting of additional compensation.
- 4.0 WORKMANSHIP:
- A. All work performed under this Contract shall provide a neat and "workmanlike" appearance when completed, to the satisfaction of the Owner's Representative. The complete installation shall function as designed and intended with respect to efficiency, capacity, and noise level, etc.
- 5.0 CUTTING AND PATCHING:
- A. All necessary cutting, drilling and patching shall be provided by this Contractor. Structural members shall not be disturbed without prior approval of the Owner's Representative. All areas disturbed by work performed under this Contract shall be neatly repaired and refinished to the condition of adjoining surfaces in a manner suitable to the Owner's Representative.
- 6.0 OPERATION DURING CONSTRUCTION:
- A. The Contractor is responsible for the installation and operation, service and maintenance of all new equipment during construction and prior to acceptance by the Owner of the completed project. Warranty periods shall not commence until final acceptance by the Owner or Owner Representative.
- B. The Contractor shall provide, at his own expense, all temporary utilities required to provide for and protect the work and as necessary to maintain an adequate work force unless use of existing facilities is specifically permitted.
- 7.0 SAFETY REGULATIONS:
- A. All work shall be performed in compliance with all applicable governing safety regulations, including OSHA regulations. Provide safety lights, guards and signs required.
- 8.0 HOUSEKEEPING:
- A. The Contractor shall be responsible for keeping stocks of material and equipment stored on the premises in a neat and orderly manner.
- B. The Contactor shall clean and maintain their specific portions of the work as specified in the General Conditions.
- C. The Contractor shall remove from the premises all waste material present as a result of his work.
- 9.0 GRAPHIC REPRESENTATION AND JOB CONDITIONS:
- A. The Drawings shall serve as working drawings for the general layout of the various items of equipment; are diagrammatic unless specifically dimensioned, and do not necessarily indicate every required item.
- B. Architectural and Structural drawings take precedence over all other drawings in the representation of the general construction work; any conflicts shall be resolved prior to commencing work. Failure to do so shall not be considered a basis for the granting of additional compensation.
- C. Arrange work in a neat, well organized manner. Coordinate work with other trades involved, prior to commencing work.
- 10.0 GUARANTEES/WARRANTY:
- A. The Contractor shall guarantee/warranty all work performed, including labor, materials and equipment furnished under this contract, against defects in materials and workmanship for a period of one year from the date of the Owner's Representative Final Acceptance of the work, or as noted in each section.
- 11.0 SUBSTITUTIONS:
- A. Materials, products and equipment described in the Bidding Documents established a standard of quality to be met by any proposed substitution.
- B. Contractor's bids shall be based on the material mentioned or specified, and any proposals for substitution shall be made in writing to the Architect/Engineer allowing adequate time for appropriate action. The products of other manufacturers may be accepted, if in the opinion of the Architect/Engineer, the substitute material is of quality as good or better than the material specified, and will serve with equal efficiency and dependability, the purpose for which the items specified were intended. The burden of proof of equality is upon the proposer.
- C. Refer to Division 1 requirements for additional substitution procedures.
- D. Wherever substitutions alter the design or space requirements, the Contractor shall be responsible for and include all associated cost items of the revised design and or construction work required by his or other trades affected by the proposed substitution.
- 12.0 SHOP DRAWINGS AND PRODUCT DATA:
- A. The checking of shop drawings is a gratuitous assistance and in no way relieves the Contractor of responsibility for deviations from the Contract Documents.
- B. Shop drawings and catalog data on all major items of equipment and apparatus, and such other illustrative materials as may be considered necessary by the Owner's Representative shall be submitted by the Contractor in adequate time to prevent delay and changes during construction.
- C. Refer to Architectural Documents for additional shop drawing submission procedures.
- 13.0 OPERATING AND MAINTENANCE BROCHURE:
- A. On completion of the project, the Contractor shall provide manuals electronically (PDF format unless otherwise instructed) containing operating, service and lubrication instructions, and parts lists for all major equipment and manufacturer's guarantees or warranties.
- 14.0 RECORD DRAWINGS:
- A. On completion of the project, the Contractor shall submit two (2) new sets of blueline prints (unless otherwise instructed) with all field changes neatly noted. The original routing and layout shall be clearly marked out.
- B. Refer to Architectural Documents for additional record drawing submission procedures.
- 15.0 FOUNDATIONS AND SUPPORTS:
- A. The Contractor shall provide concrete bases, hangers and foundations for all machinery and equipment specified or shown in this contract, including fans, air conditioning units, pumps, motors, electrical gear, etc., unless specifically noted otherwise.
- B. All hangers, brackets, clamps, etc., shall be of standard weight steel. Perforated strap hangers shall not be used in any work. When two (2) or more pipes or conduits are run parallel, or where ducts interfere with the proper location of hangers, they may be supported on trapeze hangers. Other hangers shall be hinged ring malleable iron, by Grinnell or Fee and Mason or approved equal with rods and hanger adjusters for adequate size to carry the loads imposed. All piping, ductwork and conduit systems shall each be independently supported from other systems and from equipment so that no weight is born by equipment.
- C. The Contractor shall take all precautions against excessive noise or vibration by isolating the various items of equipment from the building structure. Provide flexible connectors where indicated and at all rotating equipment and for equipment mounted on vibration isolators.

230100 - 2
SECTION 230100 - HEATING, VENTILATION AND AIR CONDITIONING

- 1.0 SCOPE:
- A. The work included under this contract consists of providing all labor, materials, tools, transportation, services, etc., necessary to complete the installation of the heating, ventilating, and air conditioning systems and other items herein listed and as described in these specifications, as illustrated in the accompanying drawings or as directed by the Architect/Engineer.
- 2.0 SHEET METAL:
- A. Provide ductwork shown with necessary dampers and other duct accessories. Ducts shall be new prime grade galvanized steel sheets constructed per ASHRAE and SMACNA Standards. Duct system(s) installation shall be in accordance with SMACNA Duct Construction Standards Manual and industry standards. Provide round or rectangular duct as indicated.
- B. Fabricate for the pressure and SMACNA seal class required by the application.
- Leakage class minimum requirements are:
1. Up thru 2" WG pressure - rectangular - Class 24.
- Seal class minimum requirements are:
1. Up thru 2" WG pressure - class A for all duct joints.
- 3.0 GRILLES, REGISTERS, INLETS AND OUTLETS:
- A. All exhaust grilles shall be as scheduled on the drawings. Commercial quality - E.H. Price or acceptable equal by Trius, Carnes, Krueger or Nalor.
- B. Louvers shall be Greenheck, 4" deep AMCA certified extruded aluminum drainable blade with bird screen, finish as noted on drawings or acceptable equal by Ruskin, Carnes, American Warming and Ventilating, Louvers and Dampers, Nalor.
- 4.0 FANS:
- A. Fans shall be as scheduled with all required accessories including vibration isolators, hangers, rate of rise thermostats, etc. Commercial quality fans shall be AMCA rated by Greenheck or acceptable equal by Cook, Acme, Carnes, Penn Barry.
- 5.0 EQUIPMENT AND PIPE LABELS:
- A. Equipment labels shall be provided for all mechanical equipment and shall be self adhesive engraved plastic; blue with white lettering, sized, minimum 1-1/2" high, and located for viewing from ground or floor level. Label shall indicate drawing designation or unique equipment number.
- C. Warning labels shall be self-adhesive engraved plastic or preprinted plastic as required by application with white lettering on red background provided at locations as required by code or where hazards to personnel exist.
- 6.0 TESTING AND ADJUSTING:
- A. Contractor shall operate and test the air conditioning and ventilation systems and instruct the Owner in its operation. Perform a series of general capacity and operating tests. The tests shall demonstrate the specified capacities of various pieces of equipment.

END OF SECTION 230100



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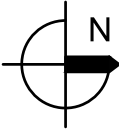
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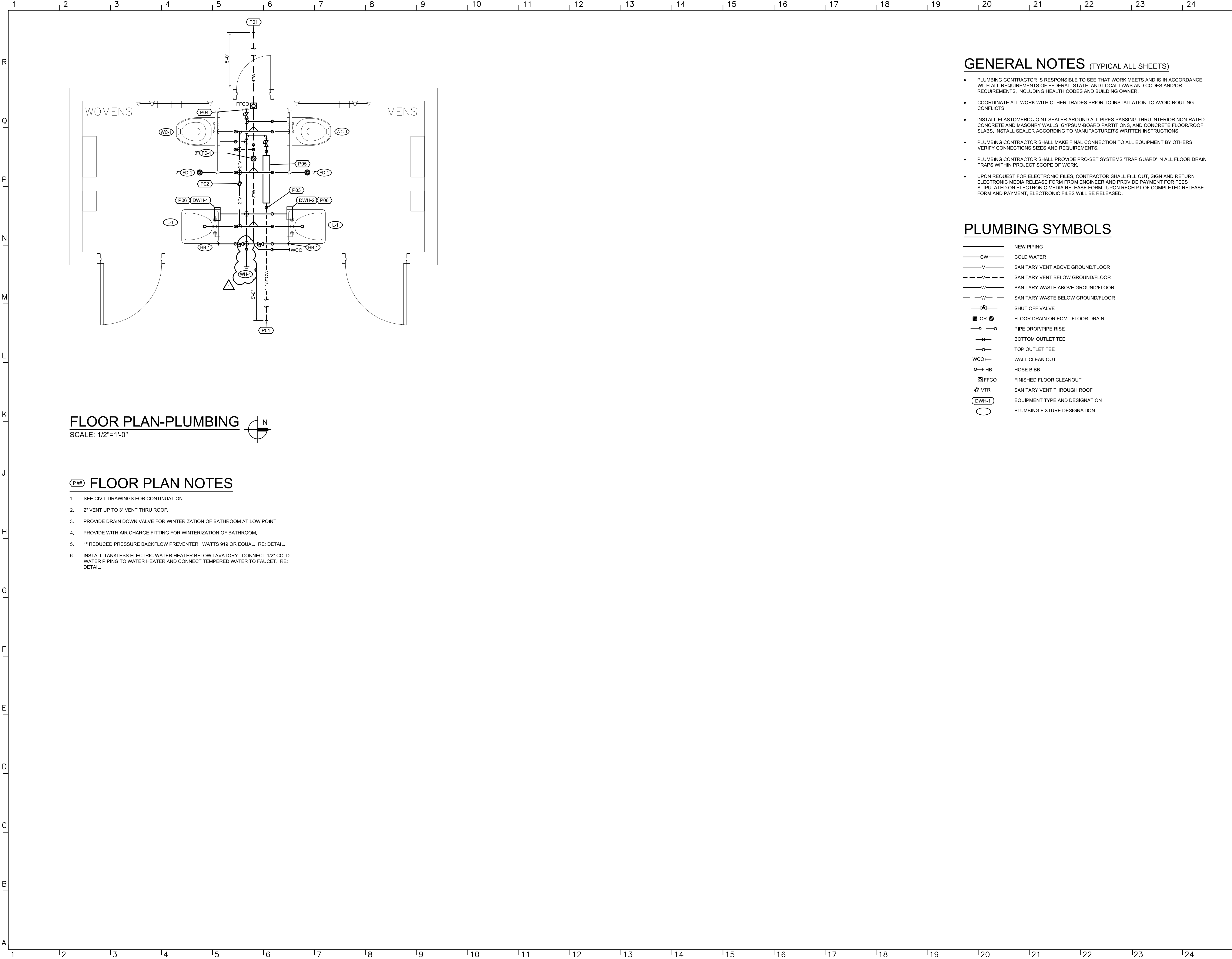
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INITIAL ISSUE	7-16-19
REVISED PER CITY COMMENT	6-18-19

SPECIFICATIONS

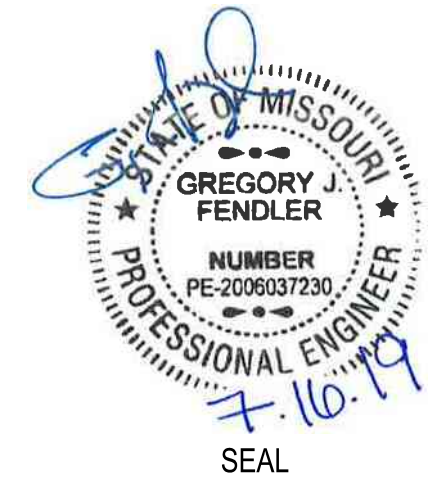
MEP1



M1

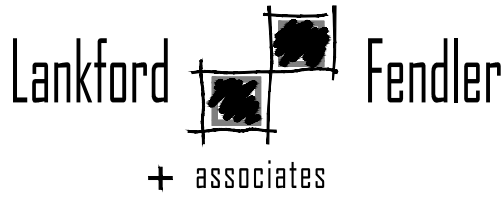


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**LOWENSTEIN
PARK**

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Project No. 2019-075



1780 Walnut Street Kansas City, Missouri 64108
1915 Frederick Avenue, St. Joseph, Missouri 64501

Phone: 816.221.1411 | Fax: 816.221.1429
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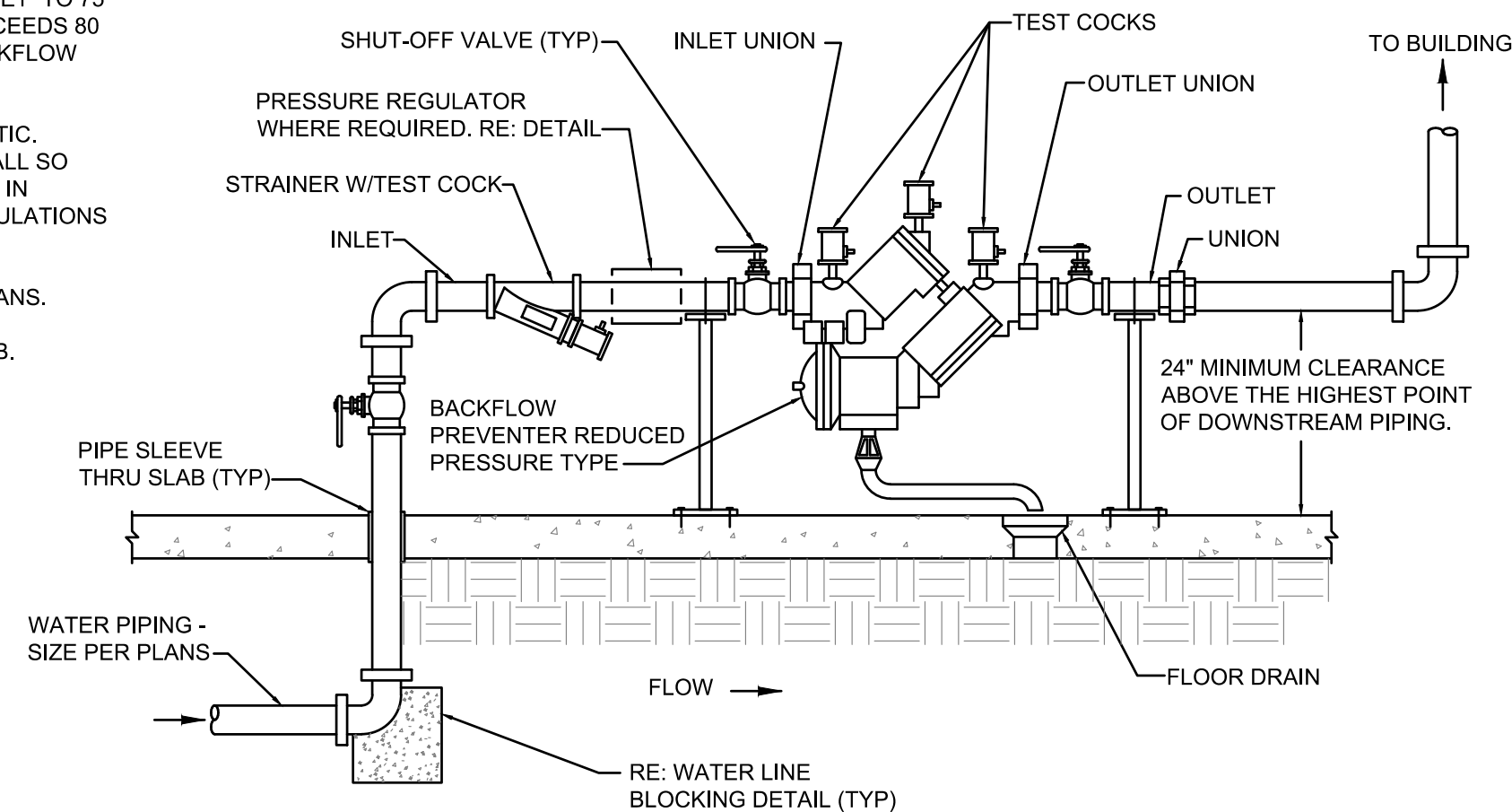
ISSUED FOR:	
INITIAL ISSUE	7-16-19
REVISED PER CITY COMMENT	6-18-19

PLUMBING
PLAN / NOTES /
SYMBOLS

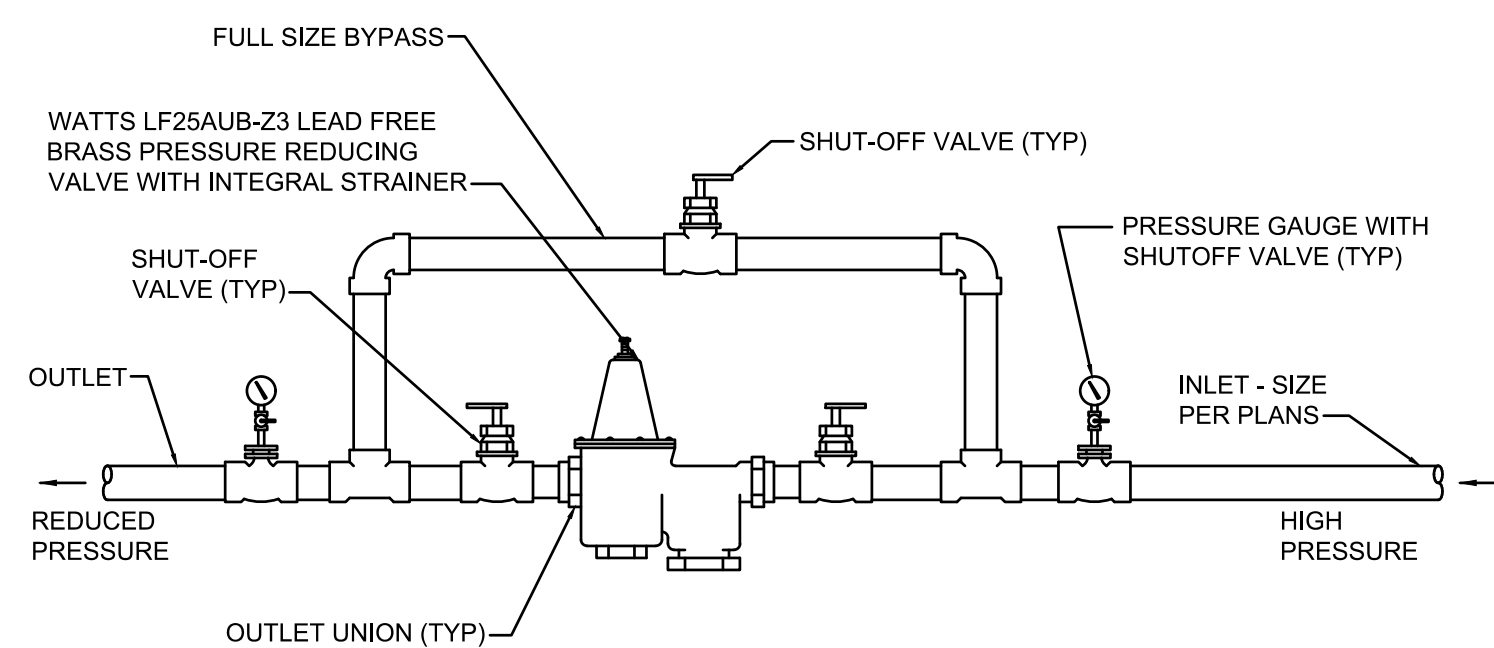
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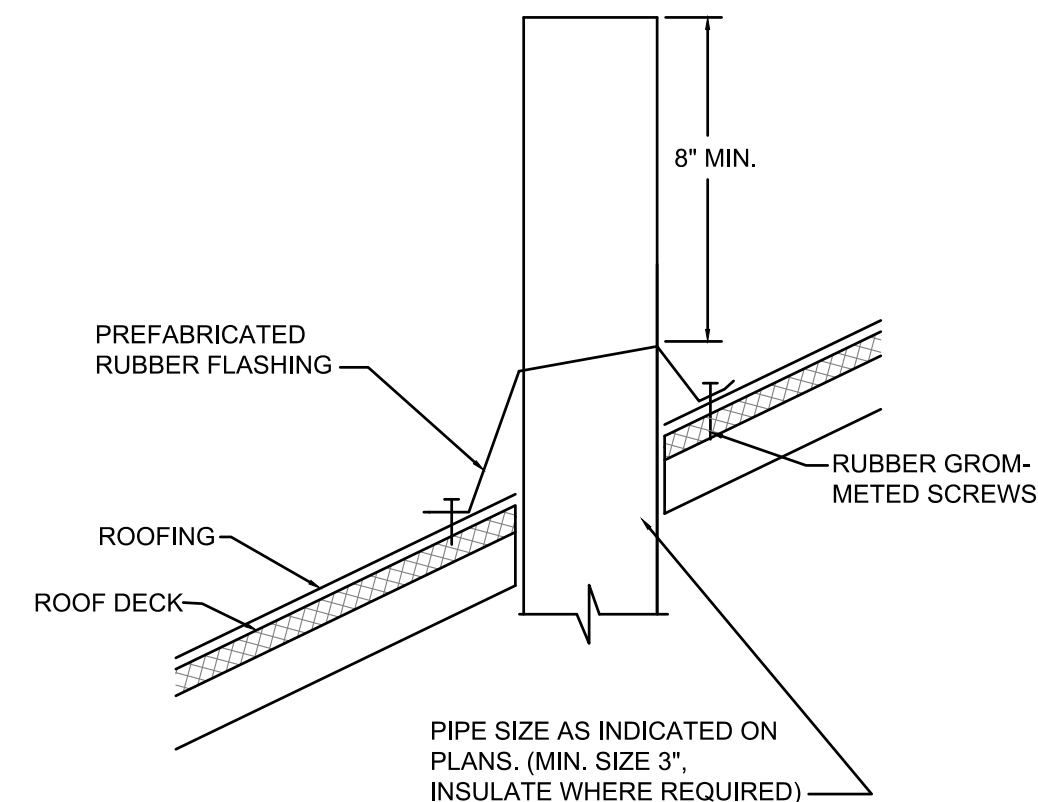
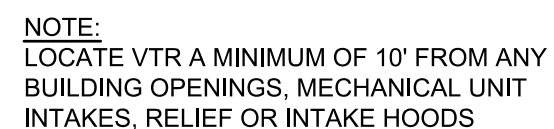
1. PROVIDE PRESSURE REGULATOR. SET TO 75 PSI WHERE SOURCE PRESSURE EXCEEDS 80 PSI. INSTALL DOWNSTREAM OF BACKFLOW PREVENTER OUTLET. RE: DETAIL.
2. ARRANGEMENT SHOWN IS SCHEMATIC. MODIFY TO SUIT CONDITIONS. INSTALL SO BFP CAN BE SERVICED AND TESTED IN ACCORDANCE W/ ALL RULES & REGULATIONS OF LOCAL AUTHORITIES.
3. ROUTE DRAIN AS INDICATED ON PLANS.
4. SUPPORT AS REQUIRED FROM SLAB.



INTERIOR BACKFLOW PREVENTER DETAIL

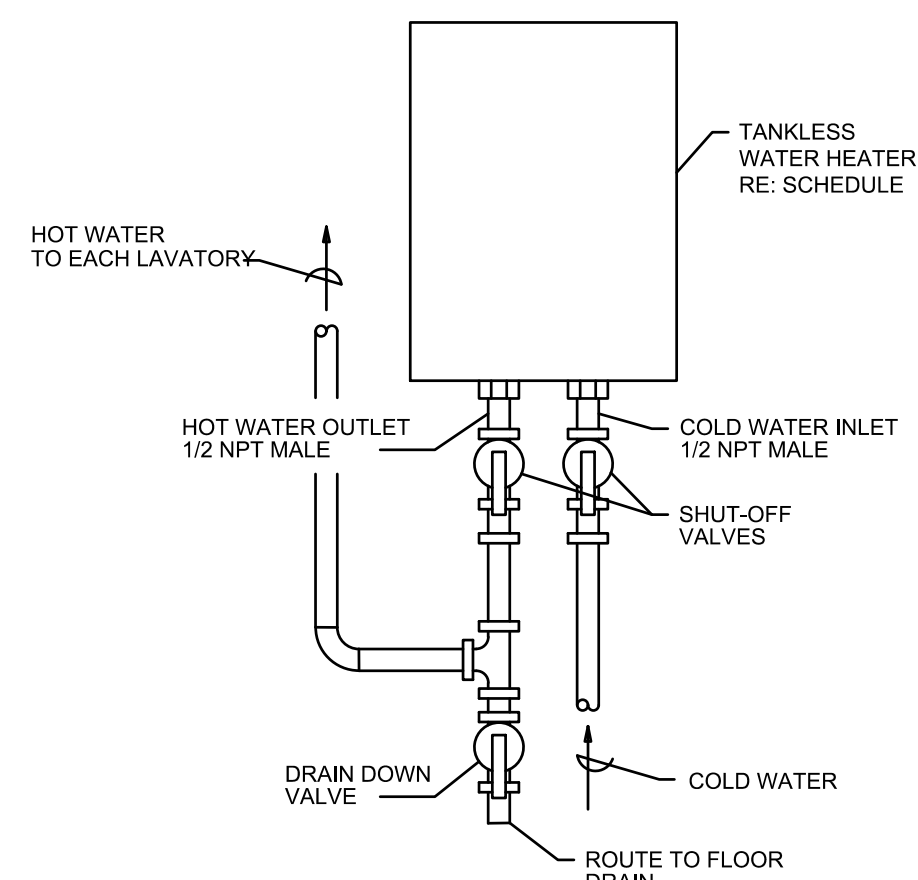


PRESSURE REDUCING VALVE DETAIL

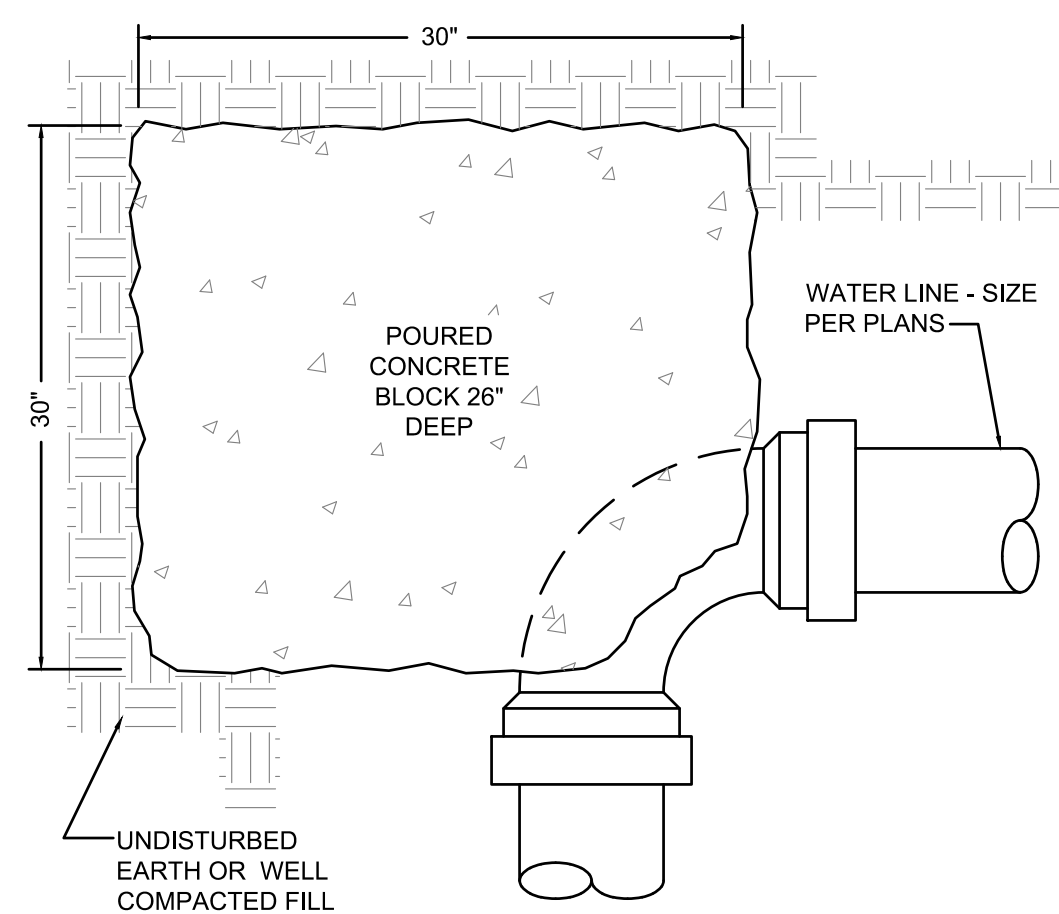


VENT THRU ROOF DETAIL

NO SCALE



TANKLESS WATER HEATER DETAIL



WATER LINE BLOCKING DETAIL

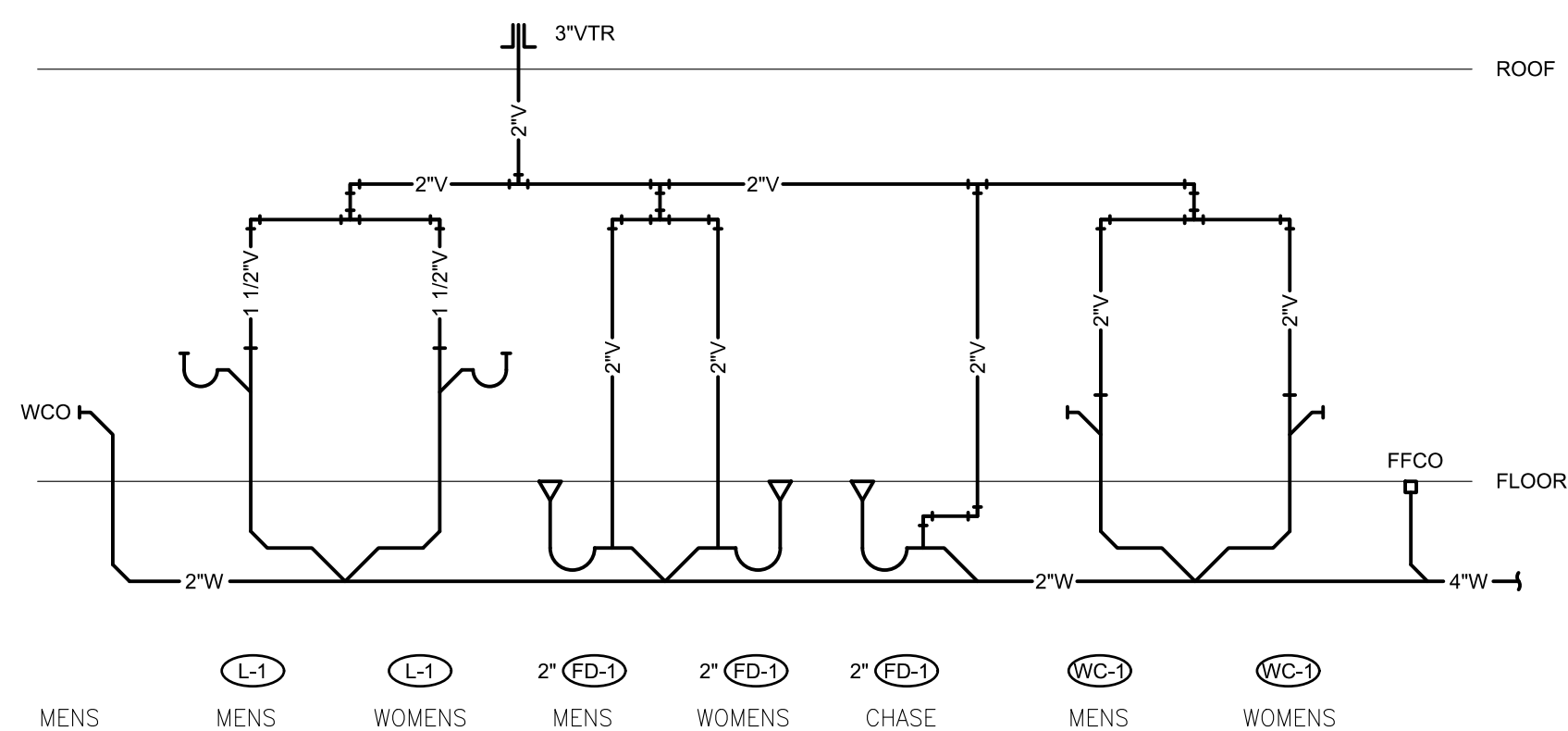
NO SCALE

WATER HEATER SCHEDULE (TANKLESS)

MARK NO.	MANUFACTURER	MODEL NO.	MINIMUM FLOW, GPM	RECOVERY (GPM @ 80 F)	INPUT (KW)	ELECTRICAL			NOTES
						VOLT	ø	HZ	
DWH-1	EBM-X	SP48	0.5	0.05	4.8	240	1	60	1
DWH-2	EBM-X	SP48	0.5	0.05	4.8	240	1	60	1

NOTES:	1.	PROVIDE WITH NICHROME ELEMENT, HIGH LIMIT SHUTOFF WITH AUTOMATIC RESET, AND MOUNTING HARDWARE
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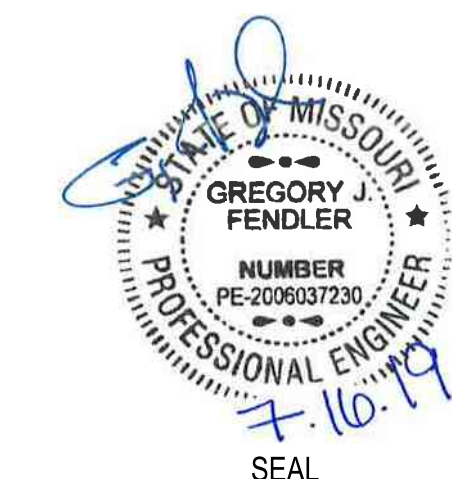
*HEATING KW IS NET CAPACITY AT VOLTAGE AND PHASE INDICATED



WASTE AND VENT RISER

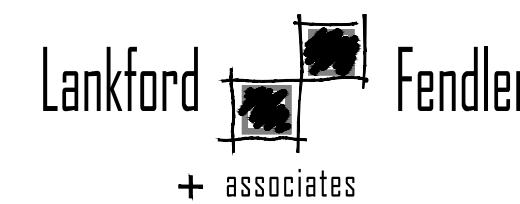


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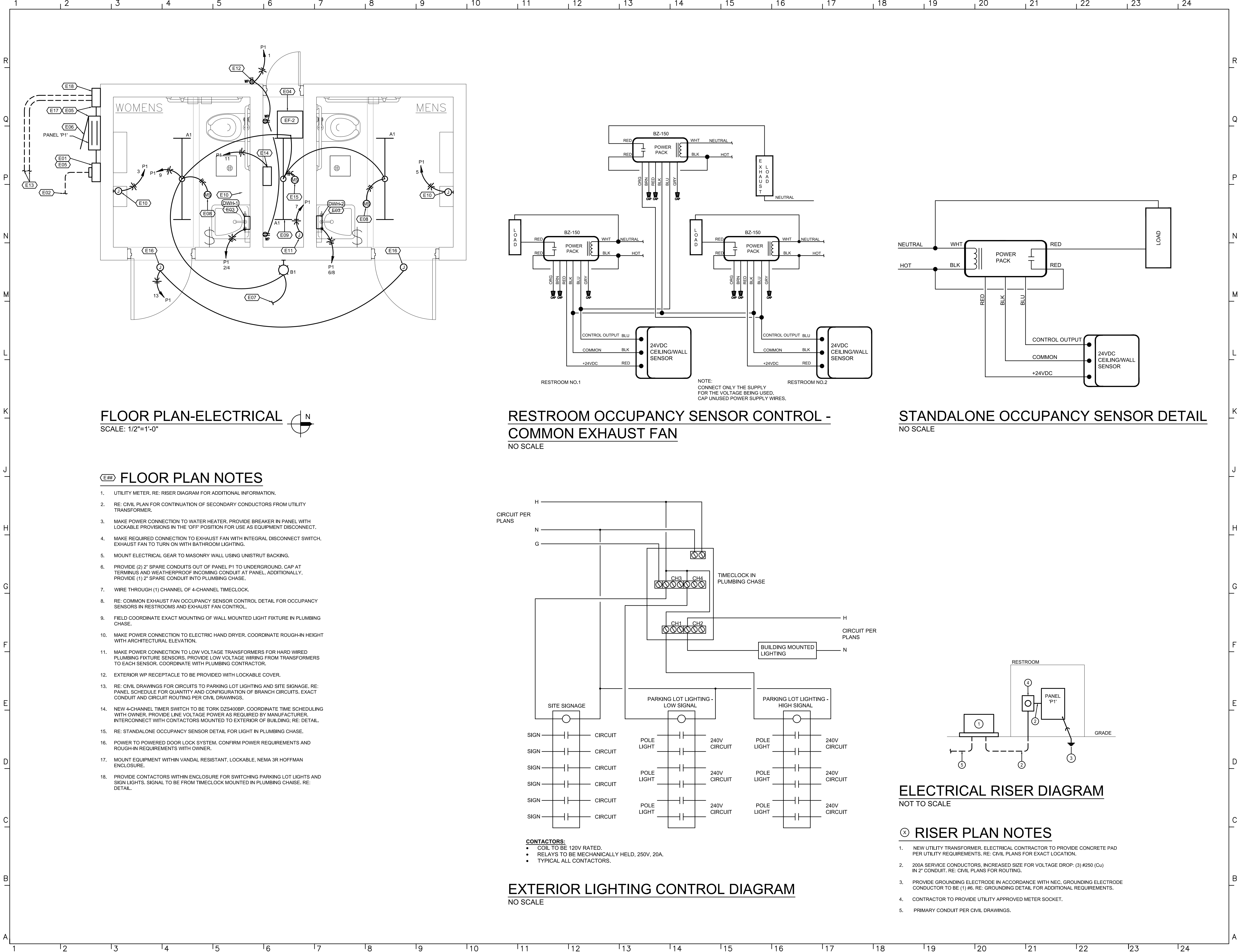
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REVISD PER CITY COMMENT 6-18-19

PLUMBING DETAILS /
SCHEDULES / RISER

P2

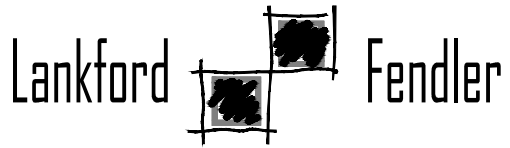


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+ associates
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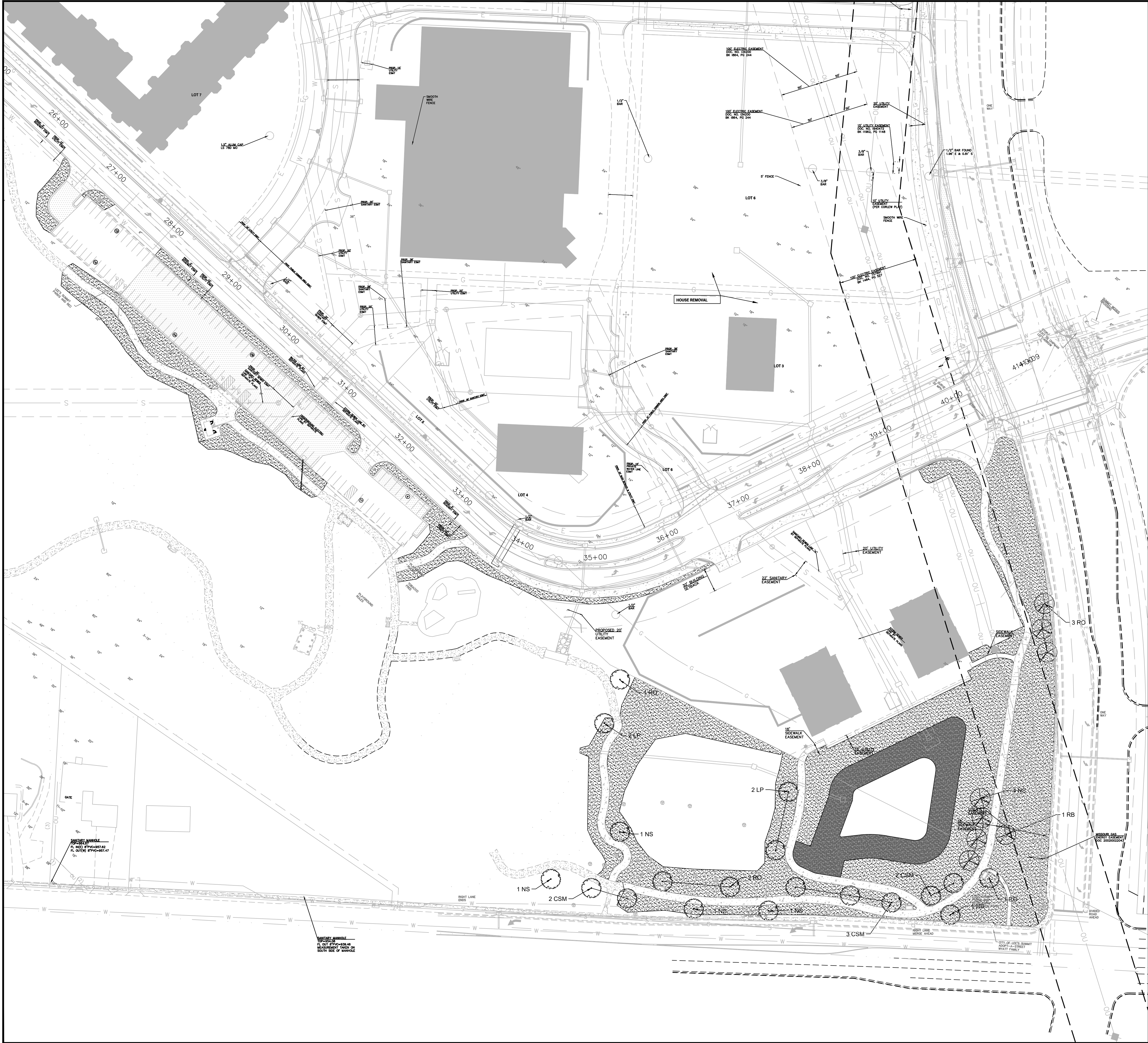
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ELECTRICAL
PLAN / DETAILS

E1



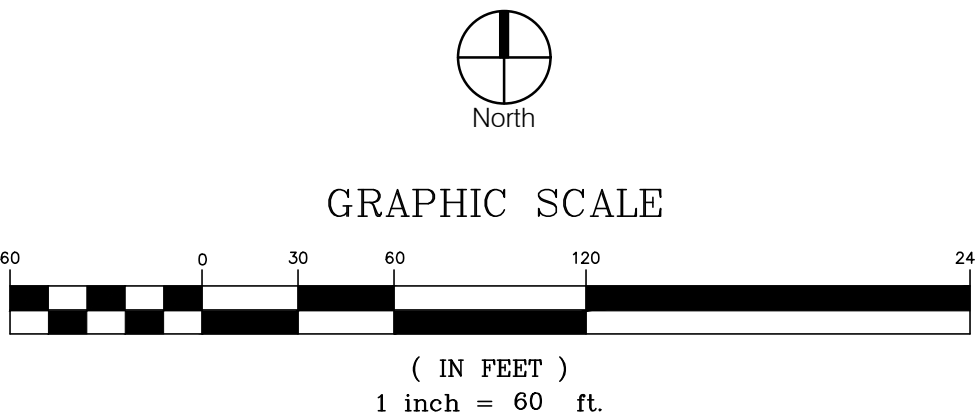
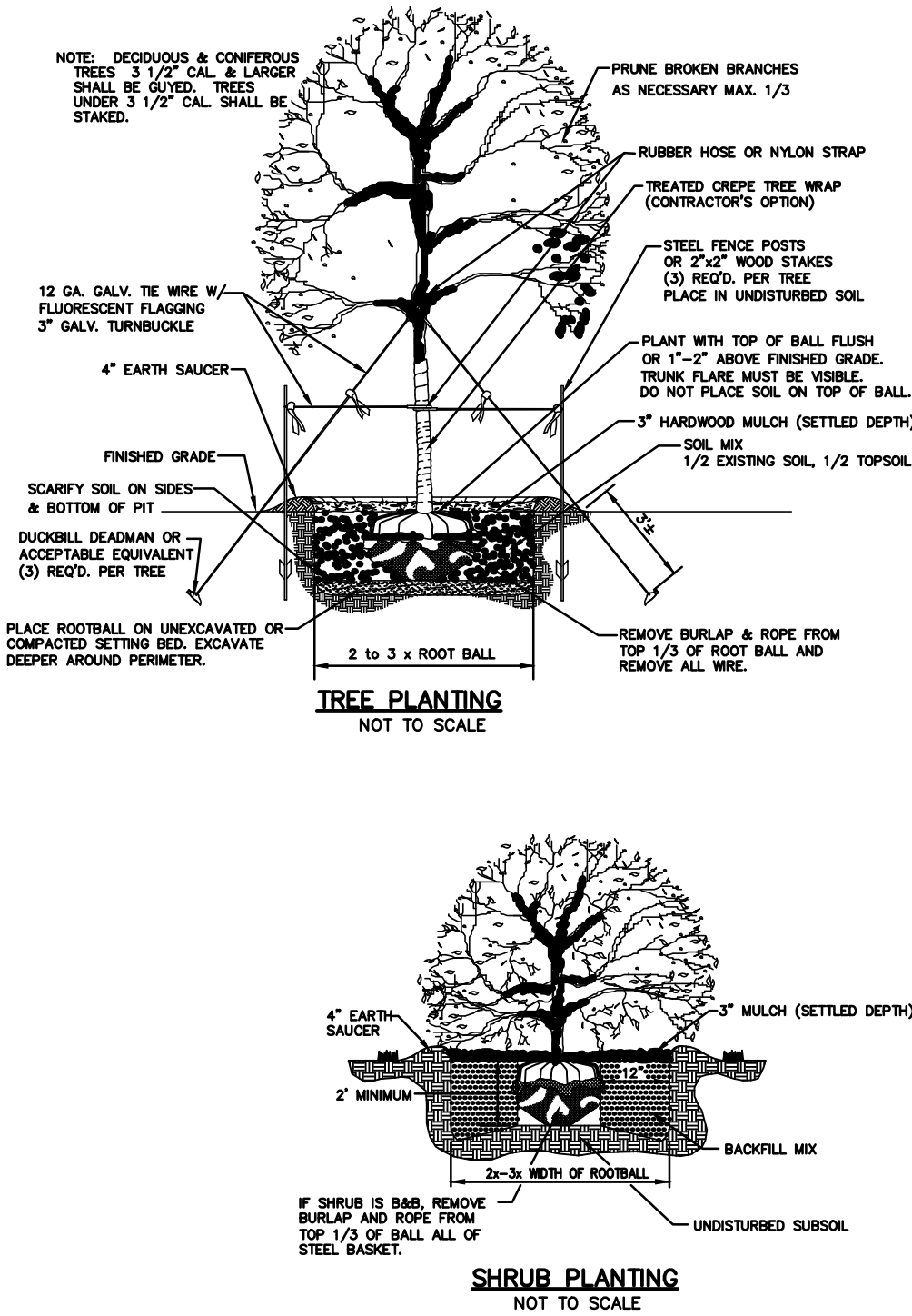
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- LANDSCAPING NOTES:**
1. LOCATE ALL UTILITIES BEFORE LANDSCAPE CONSTRUCTION BEGINS.
 2. NOTIFY OWNER REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES.
 3. ALL EXTERIOR GROUND WITHIN THE LIMITS OF THE CONTRACT, EXCEPT FOR SURFACES OCCUPIED BY BUILDINGS, STRUCTURES, PAVING, AND AS DIRECTED ON THE DRAWINGS AS UNDISTURBED, SHALL BE FILLED WITH SIX INCHES (6") OF TOPSOIL.
 4. ALL DISTURBED AREAS NOT DESIGNATED FOR OTHER PLANTING SHALL BE SODDED. SOD SHALL CONSIST OF 90% TURF TYPE TALL FESCUE 10% BLUEGRASS.
 5. QUANTITIES INDICATED IN PLANT LIST ARE FOR CONVENIENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR PLANT QUANTITIES AS ILLUSTRATED ON THE PLAN.
 6. SHREDDED HARDWOOD MULCH SHALL BE USED AS THREE INCH (3") TOP DRESSING IN ALL PLANT BEDS AND AROUND ALL TREES. SINGLE TREES OR SHRUBS SHALL BE MULCHED TO THE OUTSIDE EDGE OF SAUCER OR LANDSCAPE ISLAND (SEE PLANTING DETAILS).
 7. FERTILIZE ALL PLANTS AT THE TIME OF PLANTING WITH TIME-RELEASE FERTILIZER (3-4 SLOW-RELEASE TABLETS/PELLETS).
 8. IF LEANING OCCURS WITHIN ONE YEAR, TREES SHALL BE RE-STAKED (SEE PLANTING DETAILS).
 9. CONTRACTOR SHALL STAKE ALL PLANT MATERIALS PRIOR TO INSTALLATION FOR THE PURPOSE OF DETERMINING CONFLICTS WITH ROCK, UTILITIES, ETC. NO PLANTS CAN BE PLANTED DIRECTLY ON ROCK OR UTILITIES. NOTIFY ARCHITECT/ENGINEER/OWNER AT ONCE IF ANY CONFLICTS OCCUR. CONTRACTOR WILL BE REQUIRED TO ADJUST PLANT LOCATIONS AT NO ADDITIONAL COST.
 10. CONTRACTOR IS RESPONSIBLE FOR WATERING ALL SOD UNTIL ROOTS HAVE KNITTED INTO SOIL AND OWNER HAS OCCUPIED THE BUILDING.
 11. PROVIDE "GATOR" BAGS ON ALL TREES. REFILL AS NECESSARY UNTIL OWNER ACCEPTS THE INSTALLATION.
 12. ALL TREES SHALL BE 3" CALIPER, EVERGREEN TREES SHALL BE 8' TALL AND SHRUBS SHALL BE 18" HEIGHT AT TIME OF PLANTING

PLANT SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE/REMARKS
TREES				
CSM	7	ACER SACHARUM 'AUTUMN SPLENDOR'	CADDO SUGAR MAPLE	3" CAL. B&B
LP	4	PLATANUS x ACERIFOLIA	LONDON PLANETREE	3" CAL. B&B
RO	7	QUERCUS RUBRA	RED OAK	3" CAL. B&B
RB	1	CERCIS CANADENSIS 'OKLAHOMA'	OKLAHOMA REDBUD	1.5" CAL. B&B
NS	9	PICEA ABIES	NORWAY SPRUCE	8' HT. B&B



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jke@kvw.com | www.kvw.com

**KAW VALLEY ENGINEERING**
KAW VALLEY ENGINEERING, INC. IS AUTHORIZED TO OFFER ENGINEERING SERVICES IN THE STATE OF MISSOURI. STATE CERTIFICATE OF AUTHORITY # 000842.
EXPIRES 12/31/18

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

LOWENSTEIN PARK IMPROVEMENTS
LANDSCAPE PLAN

PROJ. NO.

DESIGNER
VSR

CN

SHEET
L 2.01

DRAWN BY
KLS

REV

CITY COMMENTS

7/12/19

8/17/19

10/19/19

9/18/18

REV

DATE

DESCRIPTION

DSN

DWN

CHK