

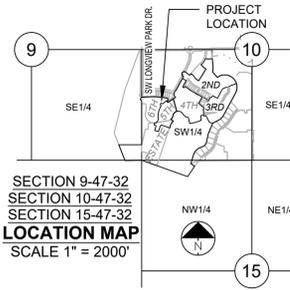
# SANITARY SEWER MAIN PLANS FOR PERGOLA PARK, 6TH PLAT

## IN THE CITY OF LEE'S SUMMIT JACKSON COUNTY, MISSOURI

### LEGEND:

- A/E - ACCESS EASEMENT
- BC - BACK OF CURB
- B/B - BACK TO BACK
- BM - BENCHMARK
- BL or B.L. - BUILDING LINE
- CO - CLEANOUT
- TJB - TELEPHONE JUNCTION BOX
- C&G - CURB AND GUTTER
- D/E - DRAINAGE EASEMENT
- E/E - ELECTRICAL EASEMENT
- EL - ELEVATION
- FL - FLOW LINE
- G/E - GAS LINE EASEMENT
- HDPE - HIGH-DENSITY POLYETHYLENE
- L/E - LANDSCAPE EASEMENT
- MSFE - MINIMUM SERVICEABLE FLOOR ELEVATION
- PVC - POLYVINYL CHLORIDE
- P/L - PROPERTY LINE
- PUB/E - PUBLIC EASEMENT
- RCP - REINFORCED CONCRETE PIPE
- ROW or R/W - RIGHT-OF-WAY
- S/E - SANITARY SEWER EASEMENT
- SL - SERVICE LINE
- S/W - SIDEWALK
- TE - TOP ELEVATION
- U/E - UTILITY EASEMENT
- WSE - WATER SURFACE ELEVATION
- W/E - WATERLINE EASEMENT

- ASPHALT PAVEMENT - EXISTING
- ASPHALT PAVEMENT - PROPOSED
- CONCRETE PAVEMENT - EXISTING
- CONCRETE PAVEMENT - PROPOSED
- CONCRETE SIDEWALK - EXISTING
- CONCRETE SIDEWALK - PROPOSED
- CURB & GUTTER
- CURB & GUTTER - EXISTING
- TREELINE
- EXISTING LOT AND R/W LINES
- EXISTING PLAT LINES
- P/L PROPERTY LINES
- R/W RIGHT-OF-WAY
- SANITARY SEWER MAIN
- SANITARY SEWER MAIN - EXIST.
- STO STORM SEWER
- STORM SEWER - EXISTING
- CABLE TV - EXISTING
- FIBER OPTIC CABLE - EXISTING
- TELEPHONE LINE - EXIST.
- ELECTRIC LINE - EXISTING
- OVERHEAD POWER LINE - EXIST.
- UNDERGROUND ELECTRIC - EX.
- GAS LINE - EXISTING
- WATERLINE - EXISTING
- LIGHT - EXISTING
- EXISTING MANHOLE
- CLEANOUT
- EXISTING SANITARY MANHOLE
- PROPOSED SANITARY MANHOLE
- EXISTING AREA INLET
- EXISTING CURB INLET
- EXISTING GRATE INLET
- EXISTING JUNCTION BOX
- EXISTING STORM MANHOLE



### UTILITY CONTACTS:

**MISSOURI DEPARTMENT OF TRANSPORTATION (MODOT)**  
Steve Holloway  
600 NE Colbern Road  
Lee's Summit, MO 64086  
(816) 607-2186

**MISSOURI GAS ENERGY (MGE)**  
Brent Jones  
3025 SE Clover Drive  
Lee's Summit, MO 64082  
(816) 399-9633  
brent.jones@spireenergy.com

**EVERGY**  
Ron DeJarnette  
1300 SE Hamblin Road  
Lee's Summit, MO 64081  
Office: (816) 347-4316  
Cell: (816) 810-5234  
ron.dejarnette@evergy.com

**CITY OF LEE'S SUMMIT PUBLIC WORKS**  
220 SE Green Street  
Lee's Summit, MO 64063  
(816) 969-1800

**AT&T**  
Mark Manion or Marty Loper  
500 E. 8th Street, Room 370  
Kansas City, MO 64106  
(816) 275-2341 or (816) 275-1550

**COMCAST CABLE**  
John Meadows  
4700 Little Blue Parkway  
Independence, MO 64057  
(816) 795-2257

**CITY OF LEE'S SUMMIT WATER UTILITIES**  
Mark Schauler  
1200 SE Hamblin Road  
Lee's Summit, MO 64081  
(816) 969-1900

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	GENERAL LAYOUT AND GRADING
3	LINE A
4	DETAIL SHEET

### GENERAL NOTES:

- ALL CONSTRUCTION TO FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
- ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE DEVELOPMENT SERVICES DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.
- LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS.
- NO GEOLOGICAL INVESTIGATION HAS BEEN PERFORMED ON THE SITE.
- THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE TAKEN FROM UTILITY COMPANY RECORDS AND APPARENT FIELD LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT OF WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. THE CONTRACTOR MAY ALSO UTILIZE THE FOLLOWING TOLL FREE PHONE NUMBER PROVIDED BY "MISSOURI ONE CALL SYSTEM, INC.": 1-800-DIG-RITE. THIS PHONE NUMBER IS APPLICABLE ANYWHERE WITHIN THE STATE OF MISSOURI. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
- PRIOR TO ORDERING PRECAST STRUCTURES, SHOP DRAWING SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL. AFTER APPROVAL OF THE SHOP DRAWINGS, A COPY OF THE APPROVED AND SIGNED SHOP DRAWINGS SHALL BE PROVIDED TO THE CITY INSPECTOR UPON REQUEST.
- THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE.
- CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
- ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OFF-SITE BY THE CONTRACTOR, OR AS DIRECTED BY THE OWNER.
- ALL EXCAVATIONS SHALL BE UNCLASSIFIED. NO SEPARATE PAYMENT WILL BE MADE FOR ROCK EXCAVATION.
- THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION, AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS.
- ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
- THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.
- THE CONTRACTOR SHALL CONTACT THE RIGHT OF WAY INSPECTOR AT 816-969-1800 PRIOR TO ANY LAND DISTURBANCE ACTIVITIES WITHIN THE RIGHT OF WAY. THESE ACTIVITIES MAY REQUIRE A PERMIT.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC HANDLING MEASURES NECESSARY TO ENSURE THAT THE GENERAL PUBLIC IS PROTECTED AT ALL TIMES. TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD-LATEST EDITION).

### UTILITIES:

- Existing utilities have been shown to the greatest extent possible based upon information provided to the Engineer. The contractor is responsible for contacting the respective utility companies and field locating utilities prior to construction and identifying any potential conflicts. All conflicts shall immediately be brought to the attention of the Engineer.
- The contractor shall be responsible for coordinating any required utility relocations. Utilities damaged through the negligence of the contractor shall be repaired at the contractor's expense.
- Contractor shall verify flow-lines and structure tops prior to construction, and shall notify Engineer of any discrepancies. Provide shop drawings for all precast and manufactured utility structures for review by the Engineer prior to construction of the structures.
- Utility Separation: Waterlines shall have a minimum of 10 feet horizontal and 2 feet vertical separation from all sanitary sewer lines, manholes, and sanitary sewer service laterals, as measured from edge to edge. If minimum separations can not be obtained, concrete encasement of the sanitary line shall be required 10 feet in each direction of the conflict.
- Payment for trenching, backfilling, pipe embedment, flowable fill, backfill materials, clean up, seeding, sodding and any other items necessary for the construction of the utility line shall be included in the contract price for the utility installation.
- The Contractor shall be responsible for contacting respective utility companies 48-hours in advance for the inspection of any proposed utility main extension or service line or service connection to any existing main.
- Trench spoils shall be neatly placed onsite adjacent to the trench, and compacted to prevent saturation and excess sediment runoff. Unsuitable materials, excess rock and shale, asphalt, concrete, trees, brush etc. shall be properly disposed of onsite. Materials may be wasted onsite at the direction of the Owner or his appointed representative.
- All excavation is considered unclassified, unless noted otherwise. Unclassified excavation for utility trenching is subsidiary to the unit price provided for the pipe. Any quantity provided for rock excavation is estimated based on the best information provided to the Project Engineer. The Engineer has the authority to identify and define the physical characteristics to determine the classification. Unit price quantities for rock excavation will be paid at a trench width of the nominal pipe diameter of the installed main plus 18 inches. Contractor is required to dispose of excess rock from their trenches by disposing it in areas as specified by the Project Engineer.

### FEMA NOTE:

NO PART OF THE PROJECT LIES WITHIN THE 100 YEAR FLOOD PLAIN PER FEMA FLOOD INSURANCE RATE MAP NUMBERS 29095C0414G DATED JANUARY 20TH, 2017

### OIL/GAS NOTE:

THERE ARE NOT OIL/GAS WELLS PRESENT ON THE PROJECT PER MISSOURI DEPARTMENT OF NATURAL RESOURCES - MISSOURI GEOLOGICAL SURVEY GeoSTRAT MAPPING.

### OWNER/DEVELOPER:

NLV DEVELOPMENT COMPANY LLC  
RUSSELL PEARSON  
440 SW LONGVIEW BLVD  
LEE'S SUMMIT, MO 64081  
p 816-589-4415  
RPEARSON@BOXDEVCO.COM

### MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:

BM JA-148, IS A STAMPED KC METRO DISK SET IN CONCRETE LOCATED 2 MILES WEST OF THE INTERSECTION OF HIGHWAY 50 AND 3RD ST. IT IS 44 FT NORTH OF THE CENTER OF 3RD ST. AND 102.5 FT WEST OF THE CENTER OF THE EXIT FROM THE ADJACENT PARKING LOT.

ELEV. 935.18

### PROJECT BENCHMARK:

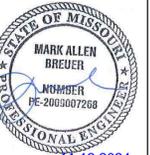
CHISELED "SQUARE" ON STORM CURB INLET AT NORTHWEST INTERSECTION OF SW. TOWER PARK DRIVE AND SW. LONGVIEW BOULEVARD.

NORTHING: 998893.4148  
EASTING: 2803318.5413  
ELEV. 1004.09

SUMMARY OF QUANTITIES			
	ITEM	QUANTITY	UNITS
1	8" PVC SDR 26	125	LF
2	6" PVC SDR 26	141	LF
3	8" x 6" WYES	4	EA
4	STD. 4" DIA. MANHOLE	1	EA
5	SEWER CONNECTION	1	EA
6	MANHOLE IN PAVED AREA	1	EA
7	POST-CONST. BARREL ADJUSTMENT	1	EA
8	POST-CONST. RING (3"-12") ADJUSTMENT	1	EA
9	CLEARING & GRUBBING	1	LS
10	EROSION CONTROL	1	LS
11	BONDS	1	LS
12	MOBILIZATION	1	LS



PREPARED BY:



SCHLAGEL & ASSOCIATES, P.A.

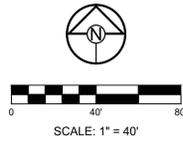
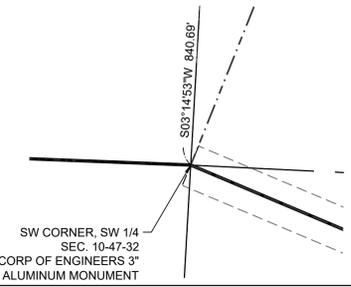
**PERGOLA PARK, 6TH PLAT  
SANITARY SEWER MAIN PLANS  
PERGOLA PARK DR & CORINTHIAN LN LEE'S  
SUMMIT, MISSOURI**

REVISION DATE	DESCRIPTION
11-8-24	CITY COMMENTS

COVER SHEET

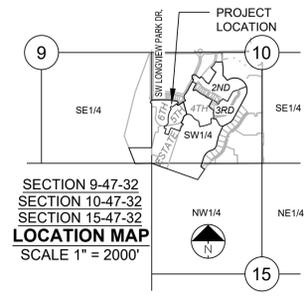
SHEET

1



**NOTES:**

1. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT TECHNICAL SPECIFICATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.
3. ALL WYES ARE STATIONED USING MAIN LINE STATIONS.
4. ALL EXCAVATION IS CONSIDERED UNCLASSIFIED.
5. ALL SERVICE STUB LINES SHALL HAVE A MINIMUM PIPE STIFFNESS OF SDR-26.
6. ALL SANITARY SEWER MANHOLES ARE 4' DIAMETER UNLESS OTHERWISE NOTED.
7. ALL SERVICE STUBS SHALL BE 90° TO THE MAIN, UNLESS OTHERWISE NOTED.
8. REFERENCE "MANHOLE IN PAVED AREA" DETAIL FOR MANHOLES PROPOSED IN ASPHALT OR CONCRETE PAVEMENT.
9. PROPOSED GRADING IS FOR REFERENCE ONLY. CONTRACTOR IS TO GRADE WITHIN THE LIMITS OF DISTURBANCE AND PROVIDE SANITARY COVER AS REQUIRED BY THE CITY'S TECHNICAL SPECIFICATIONS.



**MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:**

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CHISELED "SQUARE" ON STORM CURB INLET AT NORTHWEST INTERSECTION OF SW. TOWER PARK DRIVE AND SW. LONGVIEW BOULEVARD.

NORTHING: 998893.4148  
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**SURVEY NOTES**

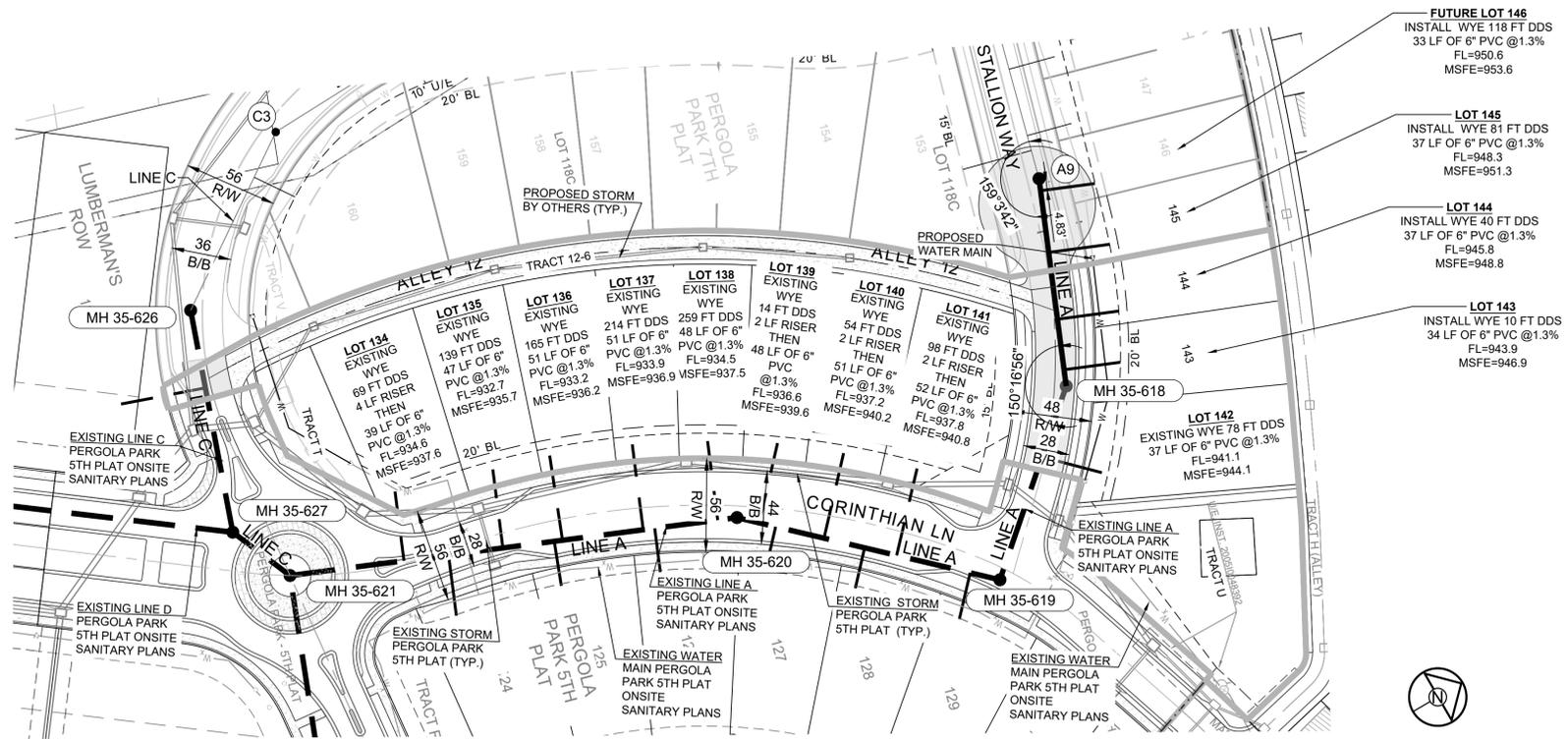
The bases of bearing and coordinates are base on the Missouri Coordinate System of 1983, West Zone (2003 Adjustment) with a Grid Factor of 0.9999020.

**PERGOLA PARK, 6TH PLAT  
SANITARY SEWER MAIN PLANS  
PERGOLA PARK DR & CORINTHIAN LN LEE'S  
SUMMIT, MISSOURI**

REVISION DATE	DESCRIPTION
11-8-24	CITY COMMENTS

DRAWN BY:	BAL
CHECKED BY:	MAB
DATE PREPARED:	8-19-24
PROJ. NUMBER:	24-041

**GENERAL LAYOUT AND GRADING**



**FUTURE LOT 146**  
INSTALL WYE 118 FT DDS  
33 LF OF 6" PVC @1.3%  
FL=950.6  
MSFE=953.6

**LOT 145**  
INSTALL WYE 81 FT DDS  
37 LF OF 6" PVC @1.3%  
FL=948.3  
MSFE=951.3

**LOT 144**  
INSTALL WYE 40 FT DDS  
37 LF OF 6" PVC @1.3%  
FL=945.8  
MSFE=948.8

**LOT 143**  
INSTALL WYE 10 FT DDS  
34 LF OF 6" PVC @1.3%  
FL=943.9  
MSFE=946.9

**LOT 142**  
EXISTING WYE 78 FT DDS  
37 LF OF 6" PVC @1.3%  
FL=941.1  
MSFE=944.1

**LOT 141**  
EXISTING WYE  
98 FT DDS  
2 LF RISER  
THEN  
51 LF OF 6"  
PVC @1.3%  
FL=937.2  
MSFE=940.2

**LOT 140**  
EXISTING WYE  
54 FT DDS  
2 LF RISER  
THEN  
51 LF OF 6"  
PVC @1.3%  
FL=937.8  
MSFE=940.8

**LOT 139**  
EXISTING WYE  
14 FT DDS  
2 LF RISER  
THEN  
48 LF OF 6"  
PVC @1.3%  
FL=936.6  
MSFE=939.6

**LOT 138**  
EXISTING WYE  
259 FT DDS  
PVC @1.3%  
FL=934.5  
MSFE=937.5

**LOT 137**  
EXISTING WYE  
214 FT DDS  
51 LF OF 6"  
PVC @1.3%  
FL=933.9  
MSFE=936.9

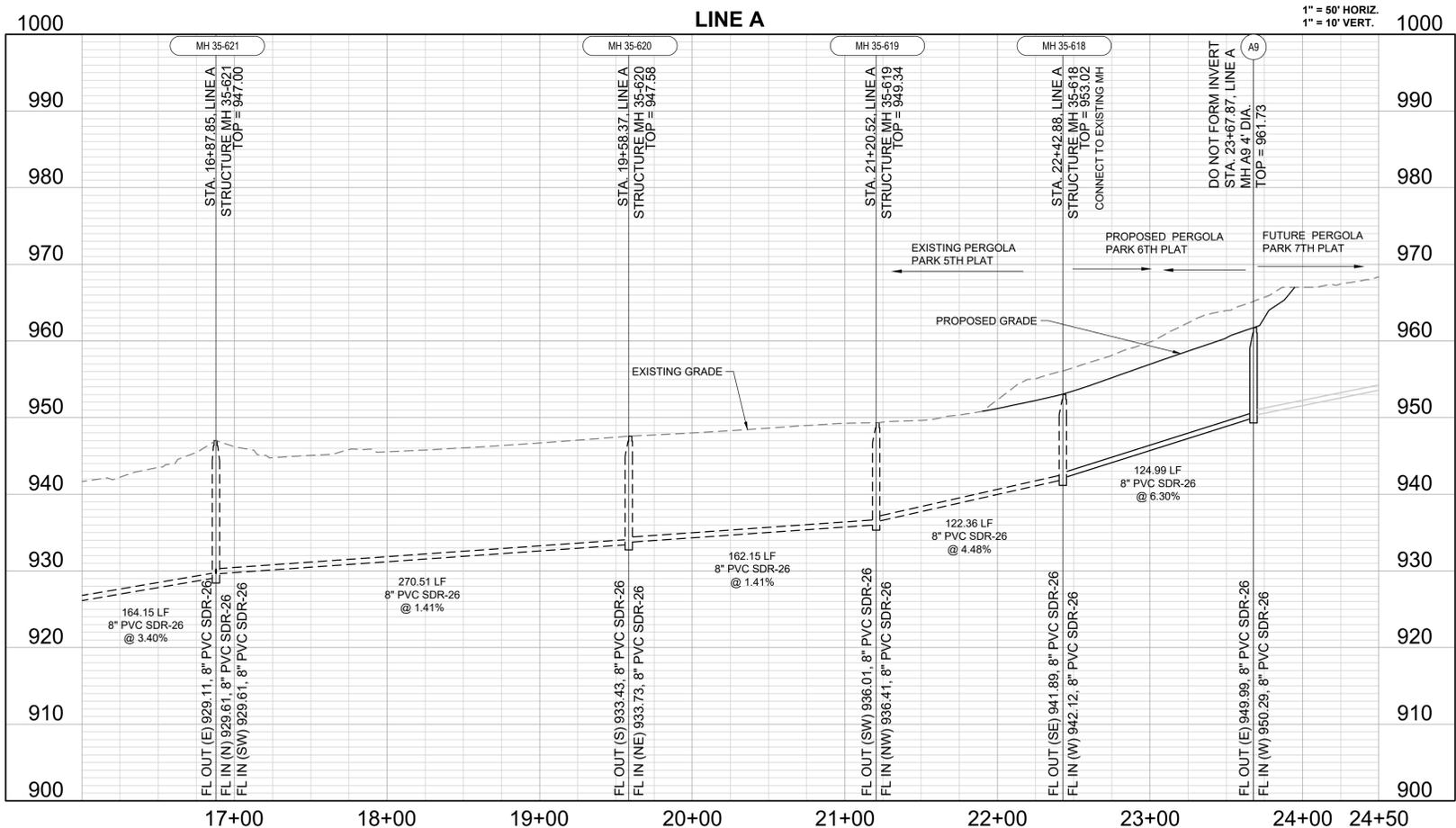
**LOT 136**  
EXISTING WYE  
165 FT DDS  
51 LF OF 6"  
PVC @1.3%  
FL=932.2  
MSFE=936.2

**LOT 135**  
EXISTING WYE  
139 FT DDS  
47 LF OF 6"  
PVC @1.3%  
FL=932.7  
MSFE=935.7

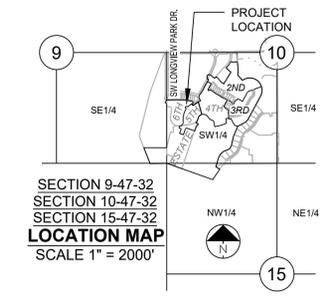
**LOT 134**  
EXISTING WYE  
69 FT DDS  
4 LF RISER  
THEN  
39 LF OF 6"  
PVC @1.3%  
FL=934.6  
MSFE=937.6



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Structure Table		
Structure Name	Structure Northing	Structure Easting
A9	996123.4711	2802801.7744



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**SCHLAGEL**  
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS  
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(913) 492-5158 • Fax: (913) 492-8400  
WWW.SCHLAGELASSOCIATES.COM  
Missouri State Certificates of Authority  
#E200200360P #LAC201005237 #LS200200869F

PREPARED BY:  
  
11.12.2024

SCHLAGEL & ASSOCIATES, P.A.

PERGOLA PARK, 6TH PLAT  
 SANITARY SEWER MAIN PLANS  
 PERGOLA PARK DR & CORINTHIAN LN LEE'S  
 SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
11-8-24	CITY COMMENTS

DRAWN BY: BAL	CHECKED BY: MAB	DATE PREPARED: 8-19-24	PROJ. NUMBER: 24-041
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LINE A

SHEET

3

