

THE VILLAS OF CHAPEL RIDGE-2ND PLAT

LOTS 43-74 and Tracts C-1 & D-1

STREET AND STORM CONSTRUCTION PLANS

Section 8, Township 48 North, Range 31 West

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

CONSTRUCTION AND DESIGN NOTES:

STREET & STORM SEWERS:

1 ~ STREET PAVEMENT SHALL CONSIST OF TYPE CG-1 AND CG-2 CURBS WITH PAVEMENT PER TABLE LS-2 OF THE LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL

RESIDENTIAL LOCAL STREET SEE BELOW FOR TYPICAL SECTION.

4" ASPHALT BASE KCMMB MIX AND 2" TYPE ASPHALT KCMMB MIX SURFACE OVER 10" MoDOT TYPE 5 BASE OVERTOP A BIAXIAL GEOGRID PER THE CITY'S APPROVED PRODUCT LIST.

RESIDENTIAL COLLECTOR STREET FOR SW ARBORWALK BLVD SEE BELOW FOR TYPICAL SECTION.

4" ASPHALT BASE KCMMB MIX AND 2" TYPE ASPHALT KCMMB MIX SURFACE OVER 12" MoDOT TYPE 5 BASE OVERTOP A BIAXIAL GEOGRID PER THE CITY'S APPROVED PRODUCT LIST.

2 ~ STORM SEWER PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) AS APPROVED BY CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.

3 ~ JUNCTION BOXES SHALL BE PER CITY OF LEE'S SUMMIT STANDARD DRAWING NO. STM-3. FIELD INLETS SHALL BE PER CITY OF LEE'S SUMMIT STANDARD DRAWING STM-2. TOEWALLS SHALL BE PER CITY OF LEE'S SUMMIT DRAWING NO. STM-5. JUNCTION BOXES SHALL BE PER CITY OF LEE'S SUMMIT STM-3. ROCK LINING AND RIP RAP SHALL BE PER CITY OF LEE'S SUMMIT.

GENERAL NOTES:

1 ~ ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.

2 ~ ALL REQUIRED EASEMENTS WITHIN THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR ON THE FINAL PLAT.

3 ~ ANY REQUIRED EASEMENT LOCATED OUTSIDE OF THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR BY SEPARATE INSTRUMENT PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS.

4 ~ 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.

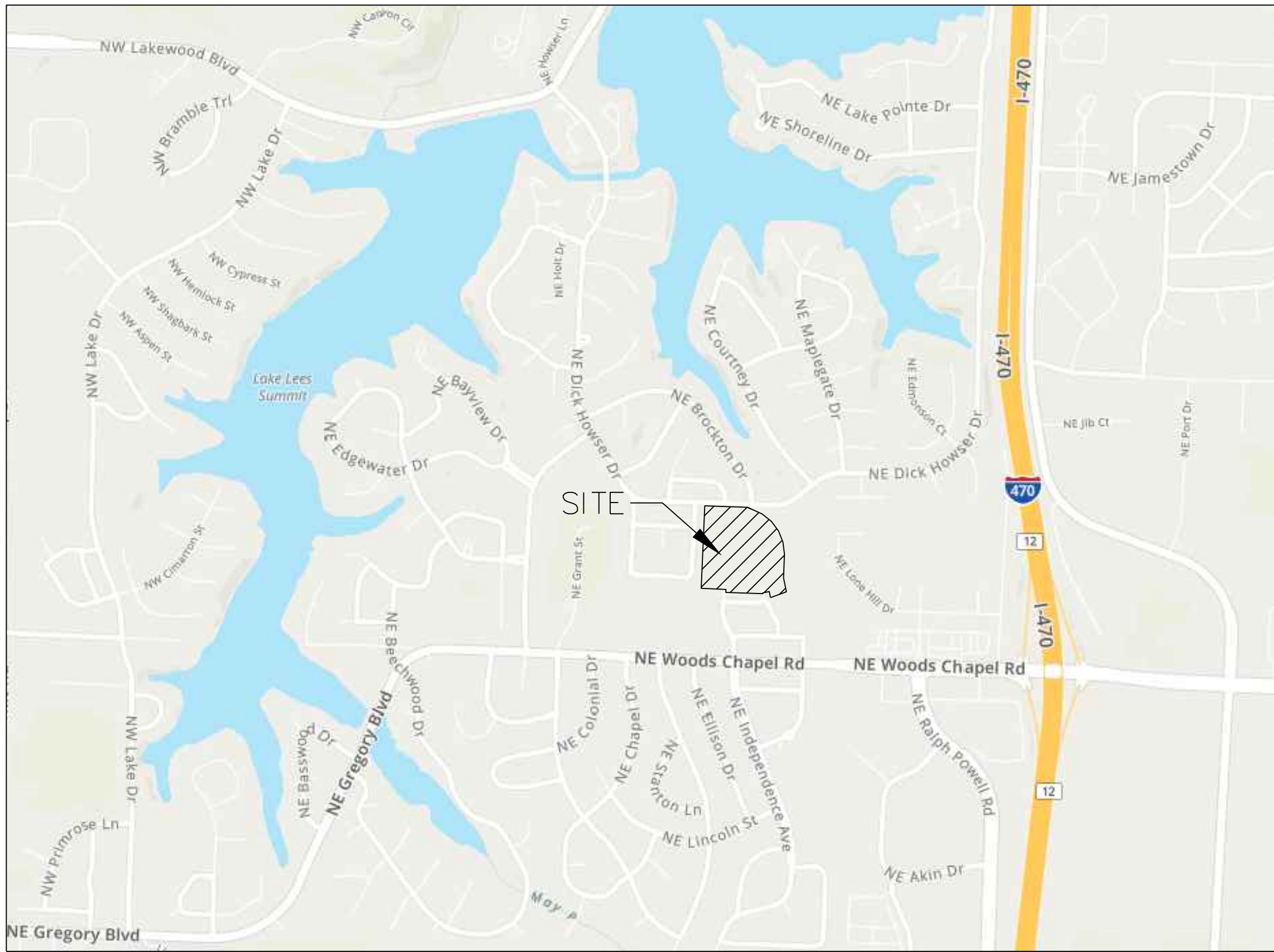
5 ~ THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH THE IMPROVEMENTS PROPOSED BY THESE PLANS AND SITE CONDITIONS.

6 ~ THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND OBTAIN THE APPROPRIATE BLASTING PERMITS FOR A REQUIRED BLASTING. IF BLASTING IS ALLOWED, ALL BLASTING SHALL CONFORM TO STATE REGULATIONS AND LOCAL ORDINANCES.

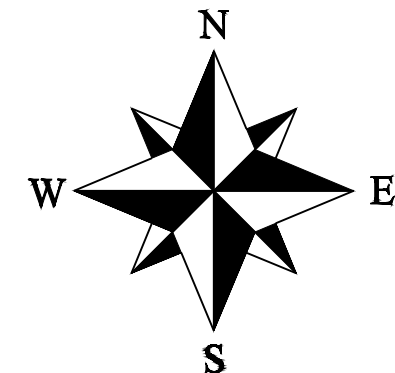
UTILITY COMPANIES:

THE FOLLOWING LIST OF UTILITY COMPANIES IS PROVIDED FOR INFORMATION ONLY. WE DO NOT OFFER ANY GUARANTEE OR WARRANTY THAT THIS LIST IS COMPLETE OR ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES THAT MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION AND VERIFYING THE ACTUAL LOCATION OF EACH UTILITY LINE. THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH PROPOSED IMPROVEMENTS.

EVERGY ~ 298-1198
MISSOURI GAS ENERGY ~ 756-5261
SOUTHWESTERN BELL TELEPHONE ~ 761-5011
COMCAST CABLE ~ 795-1100
WILLIAMS PIPELINE ~ 422-6300
CITY OF LEE'S SUMMIT PUBLIC WORKS ~ 969-1800
CITY OF LEE'S SUMMIT PUBLIC WORKS INSPECTIONS ~ 969-1800
CITY OF LEE'S SUMMIT WATER UTILITIES ~ 969-1900
MISSOURI ONE CALL (DIG RITE) ~ 1-800-344-7483



SITE LOCATION MAP



LEGEND:
B/L - BUILDING SET-BACK
C/A - COMMON AREA
D/E - DRAINAGE EASEMENT
FND. - FOUND
L/E - LANDSCAPE EASEMENT
L.N.A. - LIMITS OF NO ACCESS
R/W - RIGHT OF WAY
SAN - SANITARY SEWER LINE
S/W - SIDEWALK
U/E - UTILITY EASEMENT
W - WATER LINE
ST - STORM SEWER LINE

Summary of Quantities:

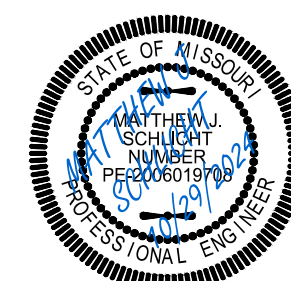
ITEM AND DESCRIPTION	UNIT	ESTIMATED QUANTITY
ASPHALT PAVING	S.Y.	4,246.00
CURBING	FT	2,683.00
5' SIDEWALK	S.F.	9,510.00
MoDOT Type 5 Base	S.Y.	5,108.00
GEOGRID	S.Y.	5,108.00
ADA SIDEWALK RAMP	UNIT	4
CLEARING, GRADING & GRUBBING	LS	1
SILT FENCE	FT	8,400.00
INLET PROTECTION	UNIT	30.00
SEEDING / MULCHING/ FERTILIZING	AC	8.27
CONST. ENTRANCE	UNIT	2.00
STORM		
30" HDPE	FT	257.92
24" HDPE	FT	222.99
18" HDPE	FT	183.71
15" HDPE	FT	1,164.11
18" RCP	FT	43.26
15" RCP	FT	43.00
4' x 4' STORM FIELD INLET	EA	6.00
5' x 4' STORM CURB INLET	EA	13.00
SILT FENCE	FT	8,400.00
INLET PROTECTION	UNIT	19.00
SEEDING / MULCHING/ FERTILIZING	AC	8.27
CONST. ENTRANCE	UNIT	2.00

ENGINEER'S CERTIFICATION:

I HEREBY CERTIFY THAT THIS PROJECT HAS BEEN DESIGNED AND THESE PLANS PREPARED IN ACCORDANCE WITH THE CURRENT DESIGN CRITERIA OF THE CITY OF LEE'S SUMMIT, MISSOURI AND THE STATE OF MISSOURI. I FURTHER CERTIFY THAT THESE PLANS WERE DESIGNED IN ACCORDANCE TO AASHTO STANDARDS.

Street & Storm Cover Sheet

Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri



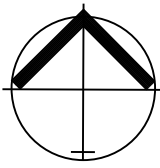
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS
REV. 8/12/2022
REV. 10/3/2022
REV. 4/26/2023
REV. 5/29/2024
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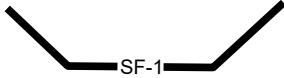
Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1685
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

Project:
VILLAS OF CHAPEL RIDGE-LSMO
Issue Date:
June 24, 2022



NOTES: The Land Disturbance Plans indicates the Final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

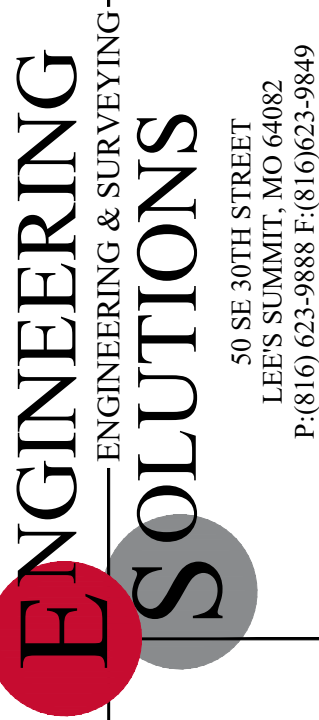


SILT FENCE PROTECTION
TO BE MAINTAINED BY CONTRACTOR

LEGEND

PHASE 1 SILT FENCE	— SF-1 —	— SF-1 —
PHASE 2 SILT FENCE	— SF-2 —	— SF-2 —
INLET PROTECTION	—	

DURING ALL PHASES OF CONSTRUCTION,
INACTIVE AREA STABILIZATION METHODS AS
DESCRIBED IN APWA SECTION 5111.3 SHALL BE
USED TO CONTROL EROSION AND SILTATION.

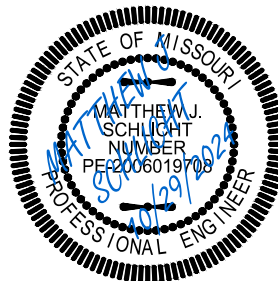


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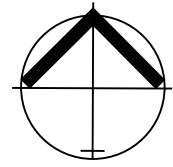
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RIDGE-LSMO
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ESC PHASE 1 - Pre Clearing Plan
Construction Plans for:
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LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri



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PHASE 1 SILT FENCE — SF-1 — SF-1 —
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INLET PROTECTION
GUTTER BUDDY OR EQUIVALENT —

DURING ALL PHASES OF CONSTRUCTION,
INACTIVE AREA STABILIZATION METHODS AS
DESCRIBED IN APWA SECTION 5111.3 SHALL BE
USED TO CONTROL EROSION AND SILTATION.

MAINTENANCE:
TO MAINTAIN THE EROSION AND SEDIMENT CONTROLS, THE FOLLOWING PROCEDURES WILL BE PERFORMED:
SEDIMENT CAPTURE DEVICES: SEDIMENT WILL BE REMOVED FROM THE UPSTREAM OR UPSLOPE SIDE OF THE FILTER FABRIC FENCES. WHEN THE DEPTH OF ACCUMULATED SEDIMENT REACHES ABOUT ONE-THIRD THE HEIGHT OF THE STRUCTURE.
STORM SEWER INLETS: ANY SEDIMENT IN THE STORM SEWER INLETS WILL BE REMOVED AND DISPOSED OF PROPERLY.
TEMPORARY CONTROLS: ALL TEMPORARY CONTROLS WILL BE REMOVED AFTER THE DISTURBED AREAS HAVE BEEN STABILIZED.

INSPECTION PROCEDURES:
INSPECTIONS WILL BE DONE BY THE RESPONSIBLE PERSON(S) AT LEAST ONCE EVERY WEEK AND WITHIN 24 HOURS EACH STORM EVENT PRODUCING ANY AMOUNT OF RAINFALL. AREAS THAT HAVE BEEN RESEEDED WILL BE INSPECTED REGULARLY AFTER SEED GERMINATION TO ENSURE COMPLETE COVERAGE OF EXPOSED AREAS. DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED SHALL HAVE ALL POLLUTION CONTROL MEASURES INSPECTED FOR PROPER INSTALLATION, OPERATION AND MAINTENANCE. LOCATIONS WHERE STORM WATER LEAVES THE SITE SHALL BE INSPECTED FOR EVIDENCE OF EROSION OR SEDIMENT DEPOSITION. ANY DEFICIENCIES SHALL BE NOTED IN A REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE INSPECTION. THE PERMITTEE SHALL PROMPTLY NOTIFY THE SITE CONTRACTORS RESPONSIBLE FOR OPERATION AND MAINTENANCE OF POLLUTION CONTROL DEVICES OF DEFICIENCIES.

IF THE EXISTING GROUND COVER IS NATURAL GRASS, DISTURBED AREAS SHALL BE TEMPORARILY SEEDED WITH WHEAT/RYE AT A RATE OF 1.5 POUNDS PER 1000 SQUARE FEET. PERMANENT SEEDED SHALL CONSIST OF 90% IN THREE EQUAL PARTS OF THIN BLADE, TURF-TYPE, TALL FESCUE AND 10% BLUEGRASS SEED AT A RATE OF 10 POUNDS PER 1000 SQUARE FEET. BOTH TEMPORARY AND PERMANENT SEEDED AREAS SHALL BE MULCHED AND WATERED TO MAINTAIN THE PROPER MOISTURE LEVEL OF THE SOIL TO ESTABLISH GRASS. NEW GRASS SHALL BE WATERED AND MAINTAINED UNTIL IT REACHES A HEIGHT OF 3 INCHES. ANY BARE AREAS SHALL BE RESEED.

ALL EROSION CONTROL DEVICES SHALL BE REMOVED BY GENERAL CONTRACTOR AFTER SITE STABILIZATION IS COMPLETE AND APPROVED BY ENGINEER.

THE DEVELOPER WILL DESIGNATE A QUALIFIED PERSON OR PERSONS TO PERFORM THE FOLLOWING INSPECTIONS:
STABILIZATION MEASURES: DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION WILL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. AFTER A PORTION OF THE SITE IS FINALLY STABILIZED, INSPECTIONS WILL BE CONDUCTED AT LEAST ONCE EVERY MONTH THROUGHOUT THE LIFE OF THE PROJECT. CONTRACTOR CAN CONTACT ENGINEERING SOLUTIONS FOR COPIES OF THE INSPECTION FORM TO BE USED FOR STABILIZATION MEASURES.

STRUCTURAL CONTROLS: FILTER FABRIC FENCES AND ALL OTHER EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN WILL BE INSPECTED REGULARLY FOR PROPER POSITIONING, ANCHORING, AND EFFECTIVENESS IN TRAPPING SEDIMENTS. SEDIMENT WILL BE REMOVED FROM THE UPSTREAM OR UPSLOPE SIDE OF THE FILTER FABRIC. CONTRACTOR CAN CONTACT ENGINEERING SOLUTIONS FOR COPIES OF THE INSPECTION FORM TO BE USED FOR STABILIZATION MEASURES.

DISCHARGE POINTS: DISCHARGE POINTS OR LOCATIONS WILL BE INSPECTED TO DETERMINE WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT AMOUNTS OF POLLUTANTS FROM ENTERING RECEIVING WATERS.

CONSTRUCTION ENTRANCE: LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE WILL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

A LOG OF EACH INSPECTION SHALL BE KEPT. THE INSPECTION REPORT IS TO INCLUDE THE FOLLOWING MINIMUM INFORMATION: INSPECTOR'S NAME, DATE OF INSPECTION, OBSERVATIONS RELATIVE TO THE EFFECTIVENESS OF THE POLLUTION CONTROL DEVICES, ACTIONS TAKEN OR NECESSARY TO CORRECT DEFICIENCIES, AND LISTINGS OF AREAS WHERE LAND DISTURBANCE OPERATIONS HAVE PERMANENTLY OR TEMPORARILY STOPPED. THE INSPECTION REPORT SHALL BE SIGNED BY THE PERMITTEE OR BY THE PERSON PERFORMING THE INSPECTION IF DULY AUTHORIZED TO DO SO.

EROSION CONTROL DESCRIPTION:

- 1.) SILT FENCE SHALL BE PLACED AT THE PERIMETER OF THE GRADING AND AT INTERMEDIATE AREAS THROUGHOUT THE SITE AS SHOWN ON THE PLAN. INLET SEDIMENT TRAPS SHALL BE PLACED SURROUNDING ALL STORM INLETS
- 2.) INSTALL TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON PLAN

EROSION CONTROL PROCEDURE:

- 1.) SILT FENCE AND TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT THE PERIMETER OF THE GRADED AREAS PRIOR TO BEGINNING OF CLEARING OR DEMOLITION OPERATIONS. THE CONTRACTOR SHALL INSTALL SILT FENCE AS SHOWN ON PLANS AS GRADING PROGRESSES.

TEMPORARY CONSTRUCTION ENTRANCE NOTES:

- A.) INSTALLATION
- 1.) AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC STREETS. IF POSSIBLE, LOCATE WHERE PERMANENT ROADS WILL EVENTUALLY BE CONSTRUCTED
 - 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 EXCEED 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 AWAY FROM IT.

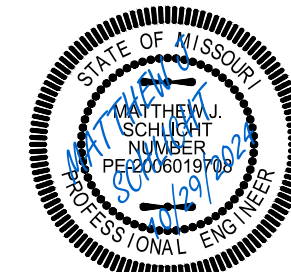
- 4.) INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES ALONG PUBLIC ROADS
- 5.) PLACE STONE TO DIMENSIONS AND GRADES AS SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPED FOR DRAINAGE
- 6.) DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE
- 7.) IF WET CONDITIONS ARE ANTICIPATED PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY

B.) TROUBLESHOOTING

- 1.) CONSULT WITH A QUALIFIED DESIGN PROFESSIONAL IF ANY OF THE FOLLOWING OCCUR:
 - INADEQUATE RUNOFF CONTROLS TO THE EXTENT THAT SEDIMENT WASHES ONTO PUBLIC ROADS
 - INSTALL DIVERSIONS OR OTHER RUNOFF CONTROL MEASURES
 - SMALL STONE, THIN PAD, OR ABSENCE OF GEOTEXTILE FABRIC RESULTS IN RUTS AND MUDDY CONDITIONS AS STONE IS PRESSED INTO SOIL - INCREASE STONE SIZE OR PAD THICKNESS OR ADD GEOTEXTILE FABRIC
 - PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC - EXTEND PAD BEYOND THE MINIMUM 50 FOOT LENGTH AS NECESSARY

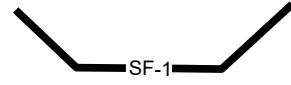
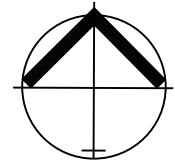
C.) INSPECTION AND MAINTENANCE

- 1.) INSPECT STONE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER ANY RAIN EVENT
- 2.) RESHAPE PAD AS NEEDED FOR PROPER DRAINAGE AND RUNOFF CONTROL
- 3.) TOP DRESS WITH CLEAN 2 AND 3 INCH STONE AS NEEDED
- 4.) IMMEDIATELY REMOVE MUD OR SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADWAY. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY
- 5.) REMOVE ALL TEMPORARY ROAD MATERIALS FROM AREAS WHERE PERMANENT VEGETATION WILL BE ESTABLISHED



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REVISIONS	
REV. 8/12/2022	
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REV. 4/26/2023	
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SILT FENCE PROTECTION
TO BE MAINTAINED BY CONTRACTOR

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**DURING ALL PHASES OF CONSTRUCTION,
INACTIVE AREA STABILIZATION METHODS AS
DESCRIBED IN APWA SECTION 5111.3 SHALL BE
USED TO CONTROL EROSION AND SILTATION.**

NOTES: The Land Disturbance Plans indicates the Final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

SEED AND MULCH NOTES:

All areas disturbed by construction activities shall be seeded and mulched. Seeding shall be done before the proposed seedbed becomes eroded, crusted over, or dried out and shall not be done when the ground is frozen, or covered with snow. The seed shall comply with the requirements of the Missouri Seed Law and the Federal Seed Act. Also, it shall contain no seed of any plant on the Federal Noxious Weed List. Other weed seeds shall not exceed one percent by weight of mix.

Seed and Fertilizer Rate:
Mix I - Rye Grass / Blue Grass ——— 100 lbs. per Acre
Mix II - Tall Fescue / Blue Grass ——— 195 lbs. per Acre
Lime ——— 2000 lbs per Acre (50 lbs. per 1000 sq. ft.)
Fertilizer ——— 800 to 1200 lbs per Acre (25 lbs per 1000 sq. ft.)

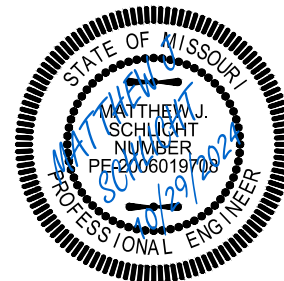
During the dates December 15th through May 31 ALL lime fertilizer, seed and mulch shall be applied to finished slopes of disturbed areas. During the months of June, July, October and November 1st through December 15th, lime fertilizer, seed and mulch shall be applied at the following rates:

Lime - 100% of specified quantity
Fertilizer - 75% of the specified quantity
Seed - 50% of the specified quantity
Mulch - 100% of the specified quantity

Mulch shall be Vegetative type, cereal straw from stalks of oats, rye, or barley, or approved equal. The straw shall be free of prohibited weed seed and relatively free of all other noxious and undesirable seed. Mulch shall be applied at the rate of 2 tons per acre, (70 to 90 lbs per 1000 sq. ft.). Mulch shall be embedded by a mulch anchoring tool or disk type roller having flat serrated disks spaced not more than 10 inches apart and cleaning scrapers shall be provided

**ONCE SITE IS 90% VEGETATED ALL ESC DEVICES
SHALL BE REMOVED AND ANY DISTURBED AREAS
SHALL BE RESTORED**

ESC PHASE 3 - Final Restoration Plan
Construction Plans for:
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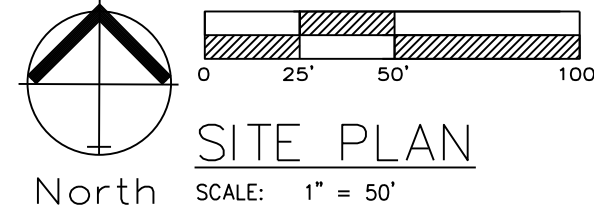
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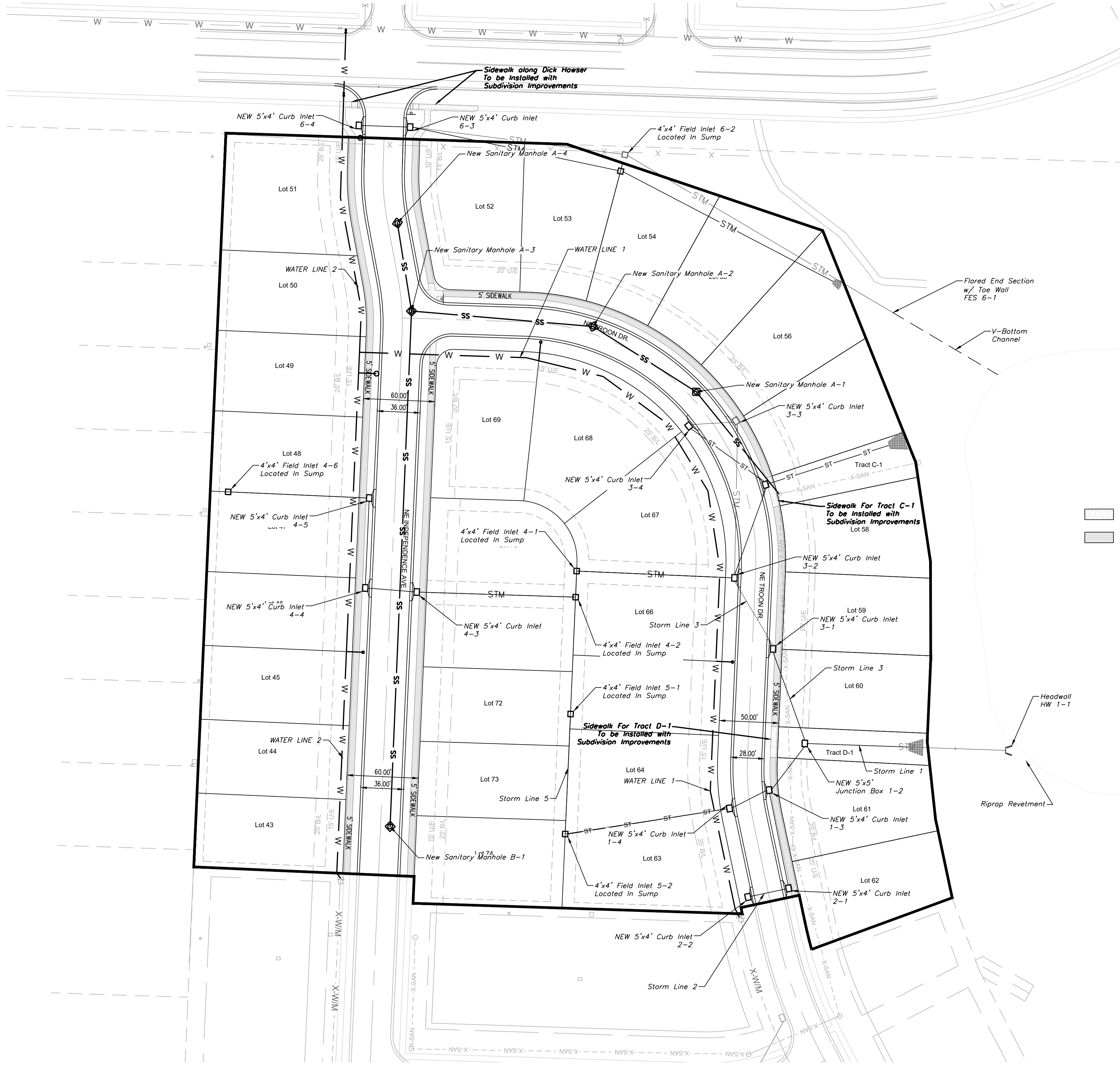
Project:
VILLAS OF CHAPEL
RIDGE-LSMO
Issue Date:
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ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P: (816) 651-9888 F: (816) 651-9849

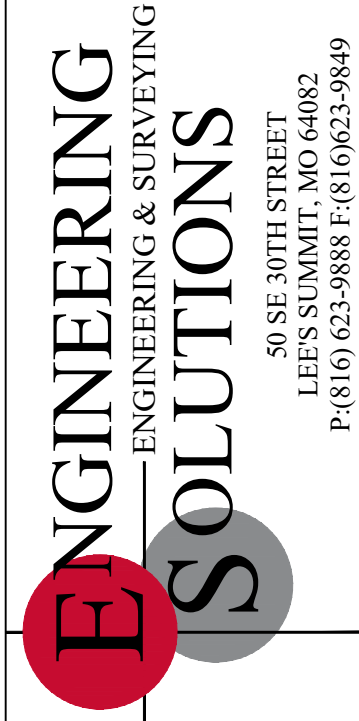
ENGINEERING SOLUTIONS



Contractor is Responsible to Remove
All Existing Onsite Fence and
Structures and properly dispose of
these items offsite



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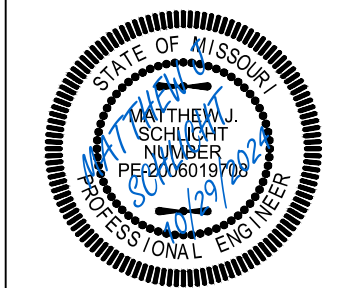
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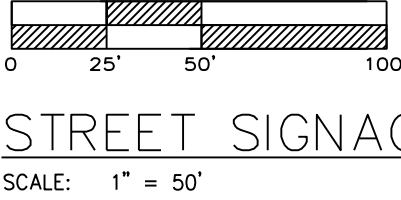
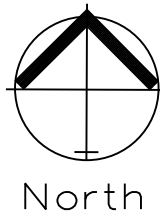
Site Plan

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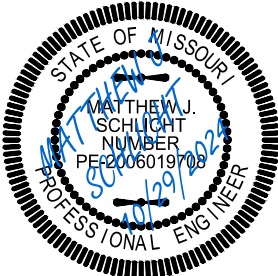


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LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

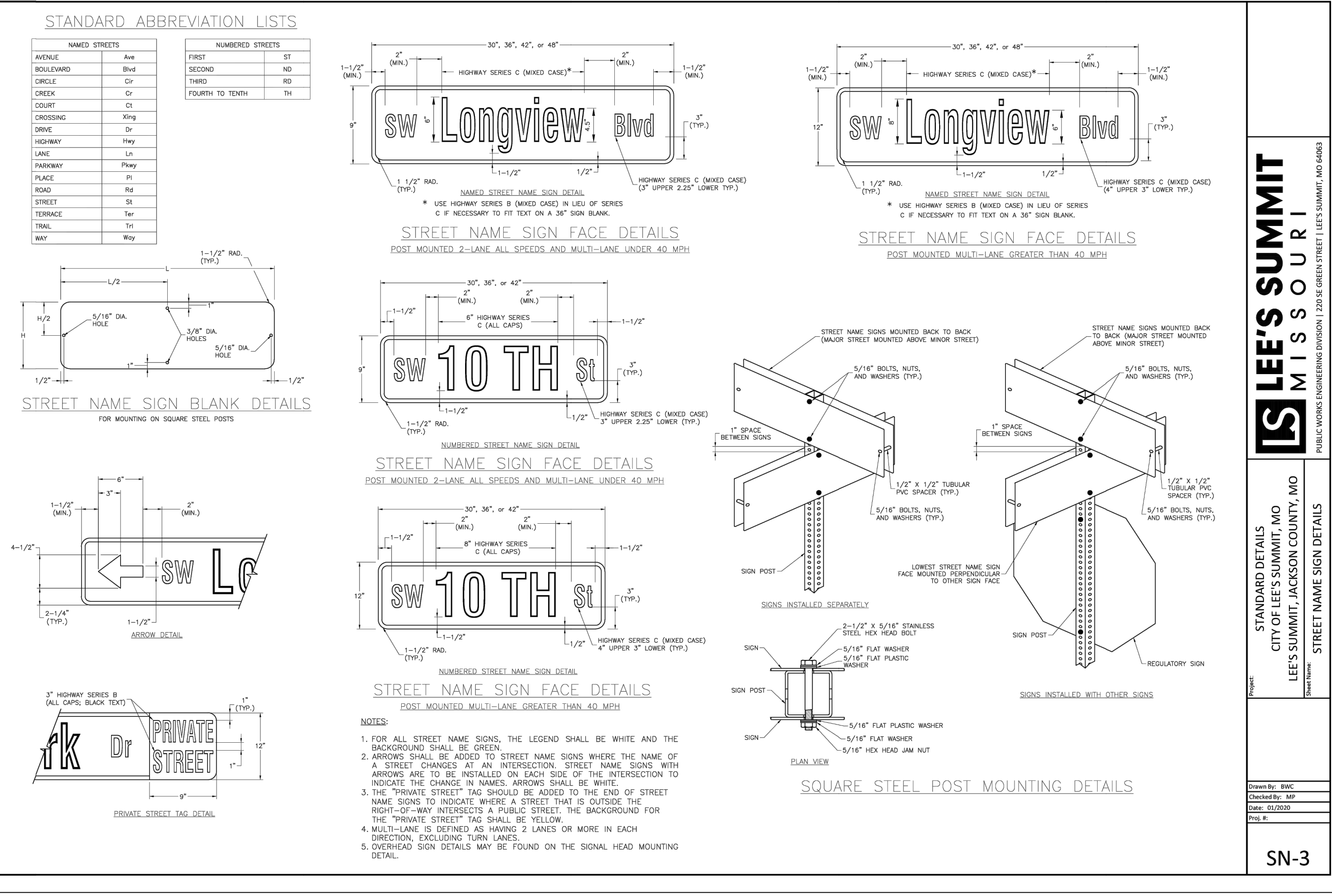
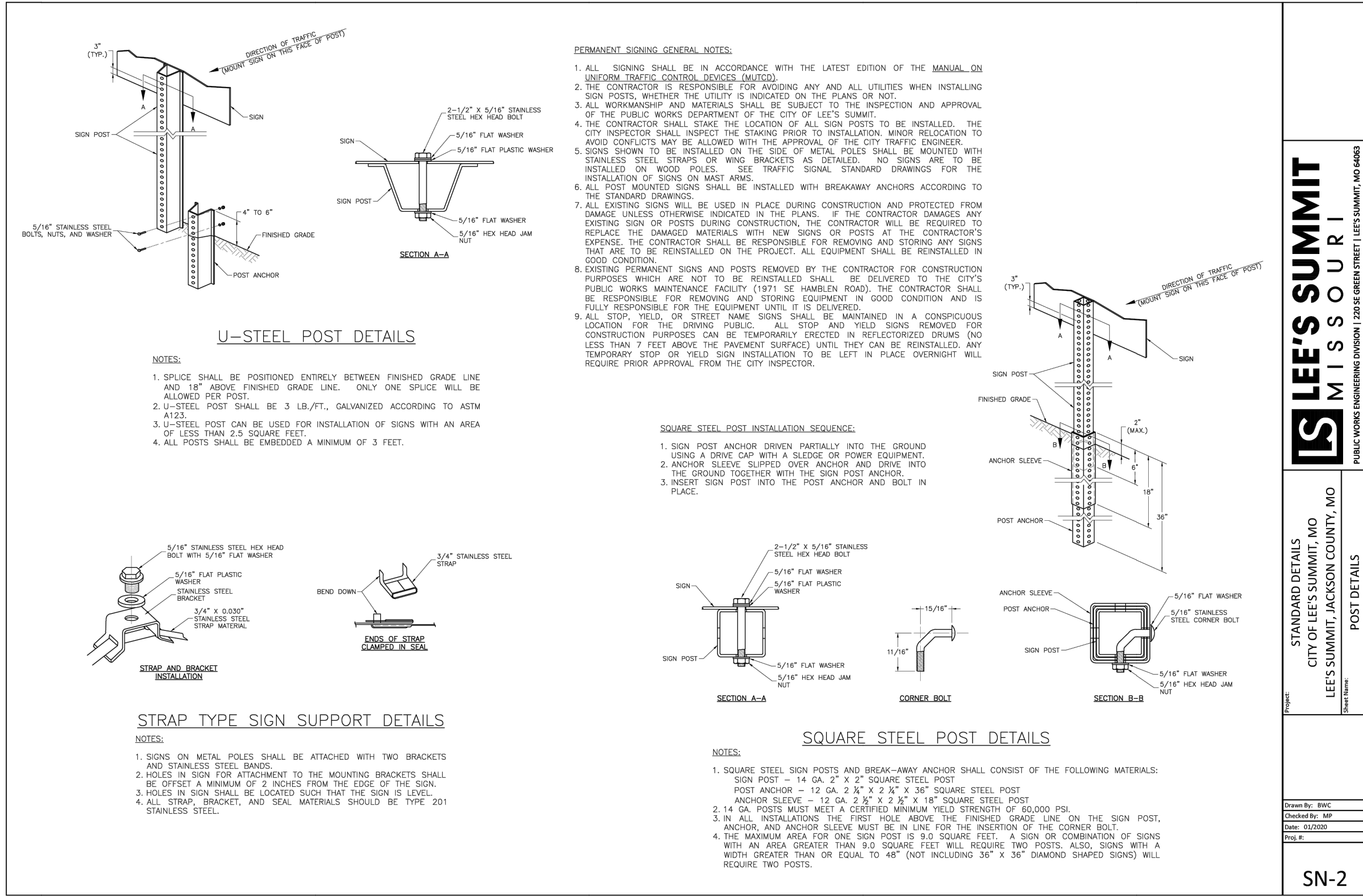
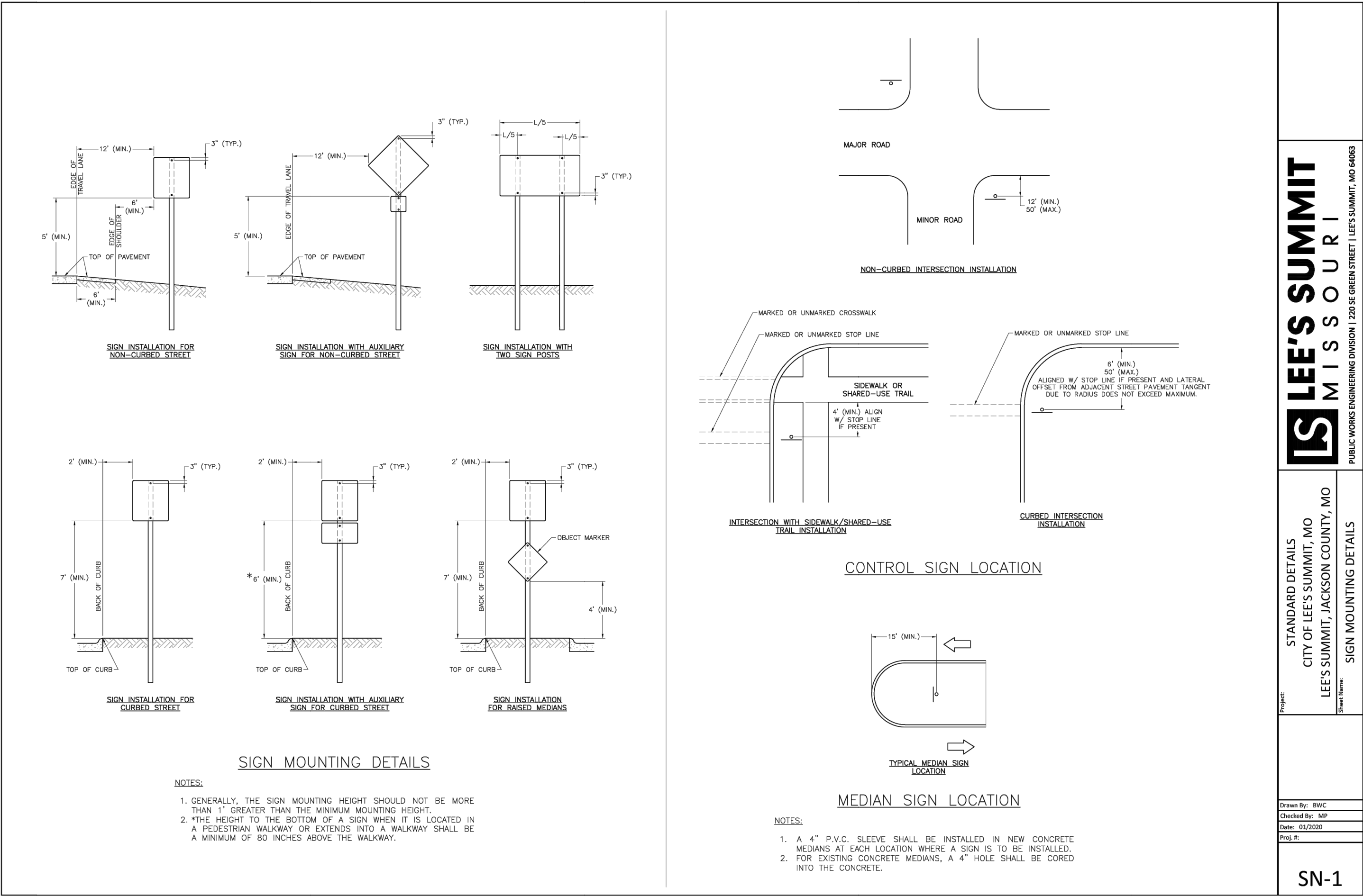
Project:
VILLAS OF CHAPEL
RIDGE-LSMO
Issue Date:
June 24, 2022

Street Signage
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri



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REV. 8/12/2022	
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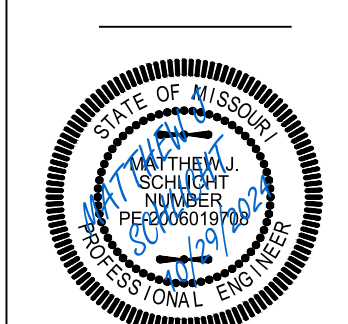


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THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

Project:
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Street Signage Details
Construction Plans for:
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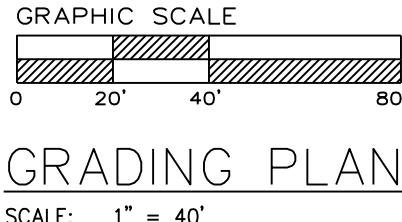
Estimated Cut / Fill Quantities

Site Area	7.32 Acres
Cut Volume (Unadjusted)	29,628 c.y.
Fill Volume (Unadjusted)	30,922 c.y.
Street & Sidewalk Cut Volume	1,820 c.y.

Net Excess 3,114 c.y. (Unadjusted)(Cut)

Notes

- Contractor is responsible for verifying all existing utility locations prior to excavation
- There are no known natural or artificial water storage detention areas, or wetlands in the area designated for construction
- No part of the project lies within the 100 year flood plain
- All erosion and sediment control measures need to be implemented prior to construction
- Additional erosion control may be required by the City Engineer, Design Engineer or Owner at any time problematic areas are noted in the field or existing measures are found to be ineffective
- Soil Stabilization of disturbed areas shall be completed within 14 days of construction inactivity
- Contractor responsible for all density testing of roadway subgrade and granular base.



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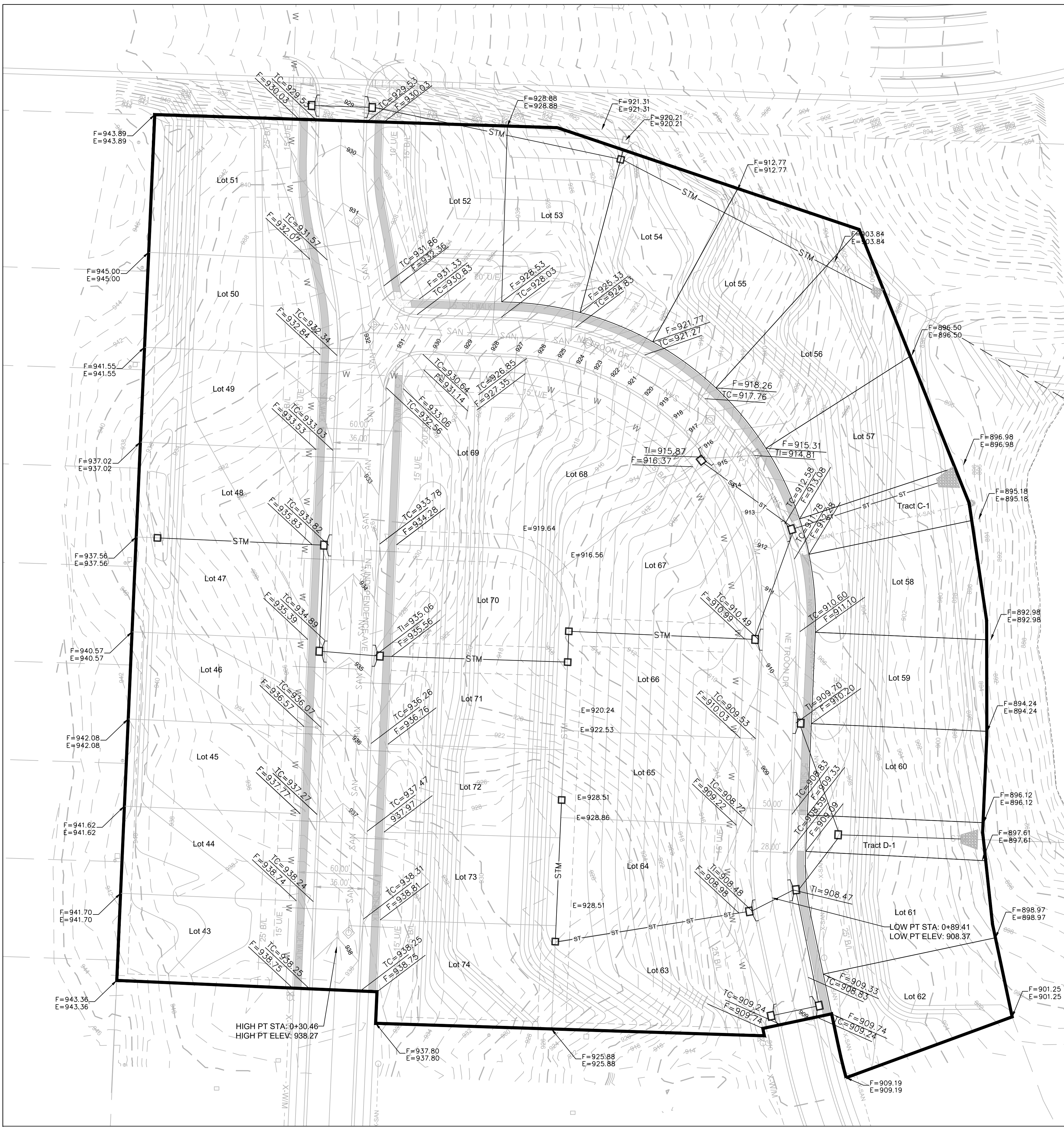
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THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

Project:
VILLAS OF CHAPEL
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Master Drainage Plan 1 of 3:
Grading Plan
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

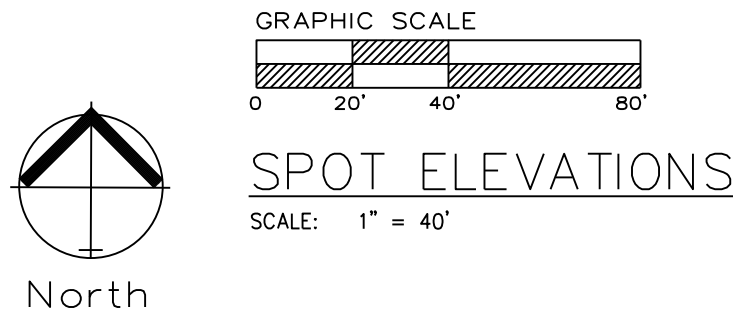
STATE OF MISSOURI
MATTHEW J. SCHLICHT
REGISTERED PROFESSIONAL ENGINEER
NO. 00000019708
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335
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REV. 4/26/2023
REV. 5/29/2024
REV. 10/29/2024
C.200



Note:
AS GRADED PLOT PLAN REQUIRED FOR EACH LOT.

Lot Number	Basement Type	MBOE
43	Full	942.00
44	Full	941.00
45	Full	940.00
46	Full	939.00
47	Full	939.00
48	Full	940.00
49	Full	941.00
50	Full	942.00
51	Full	N/A
52	Daylight	N/A
53	Walkout	N/A
54	Walkout	N/A
55	Walkout	N/A
56	Walkout	N/A
57	Walkout	N/A
58	Walkout	N/A
59	Walkout	N/A
60	Walkout	N/A
61	Walkout	N/A
62	Walkout	N/A
63	Full	913.00
64	Full	913.00
65	Full	913.00
66	Full	914.00
67	Full	920.00
68	Full	N/A
69	Walkout	N/A
70	Walkout	N/A
71	Walkout	N/A
72	Walkout	N/A
73	Walkout	N/A
74	Walkout	N/A

Drainage Notes
Side yard swales for individual lots shall be graded during the plot plan process.



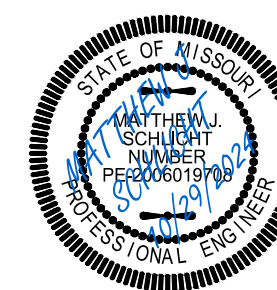
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THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

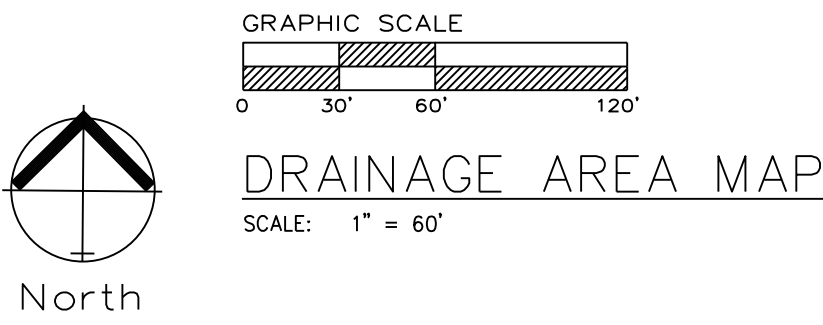
Project:
VILLAS OF CHAPEL
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Master Drainage Plan 2 of 3:
Spot Elevations
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri



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REV.	5/29/2024
REV.	10/29/2024



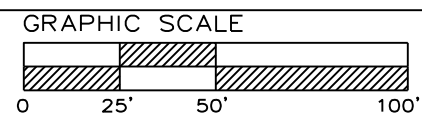
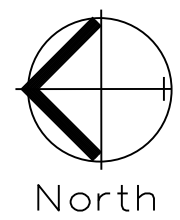
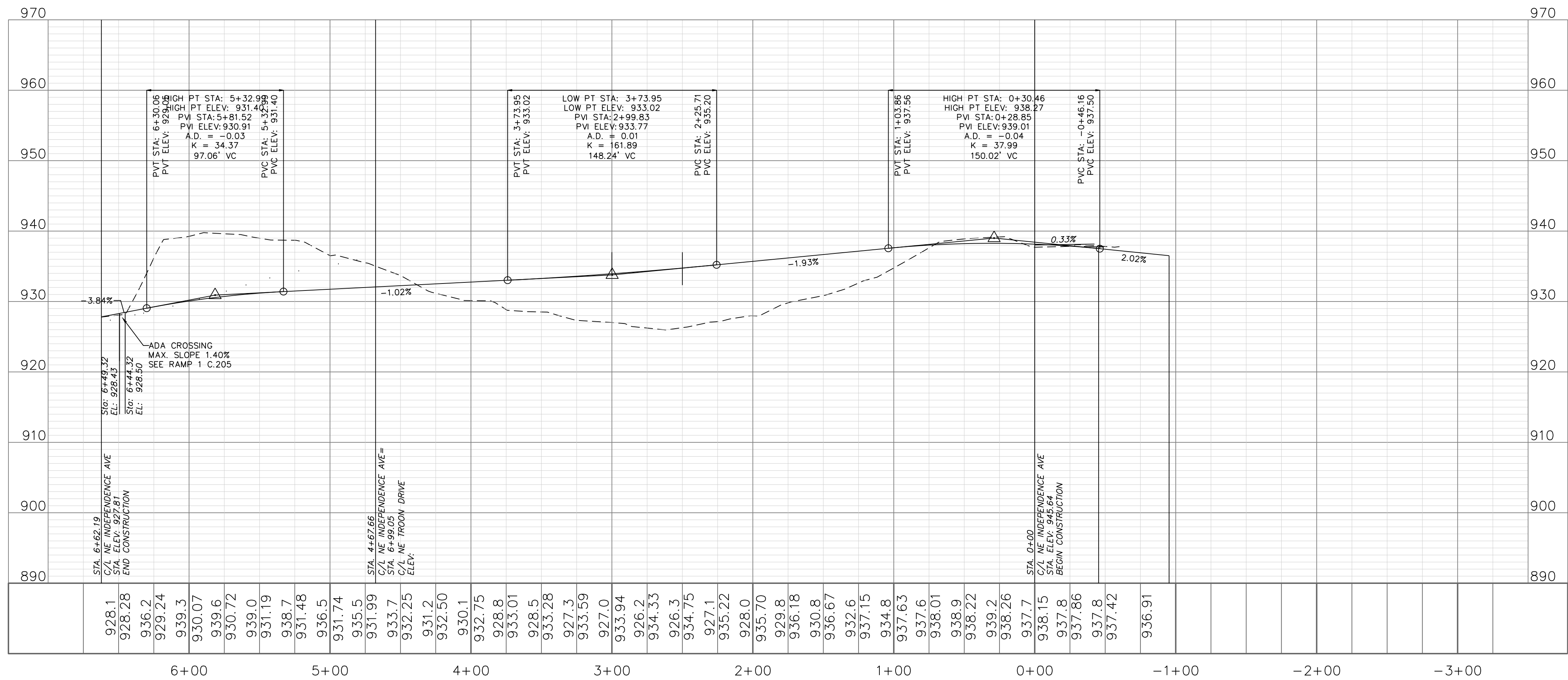
Master Drainage Map 3 of 3:
Drainage Area Map
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

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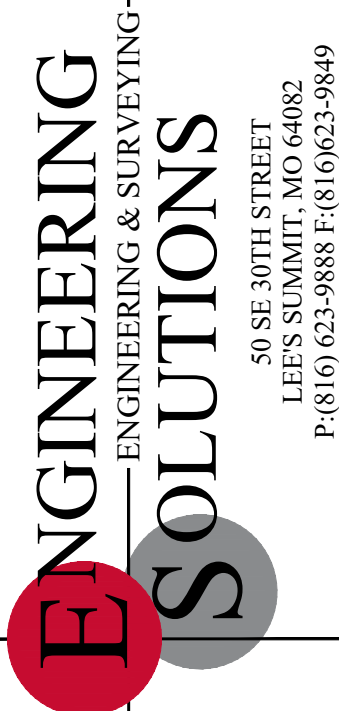
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NE INDEPENDENCE AVE



STREET PLAN & PROFILE
SCALE: 1" = 50'

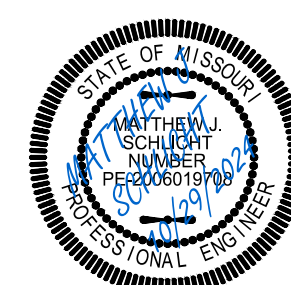


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LOTS 43-74 and Tracts C-1 & D-1
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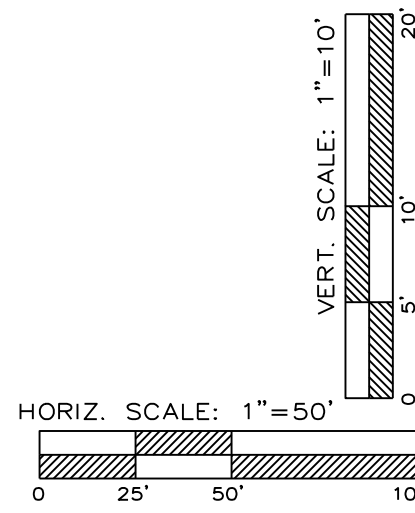
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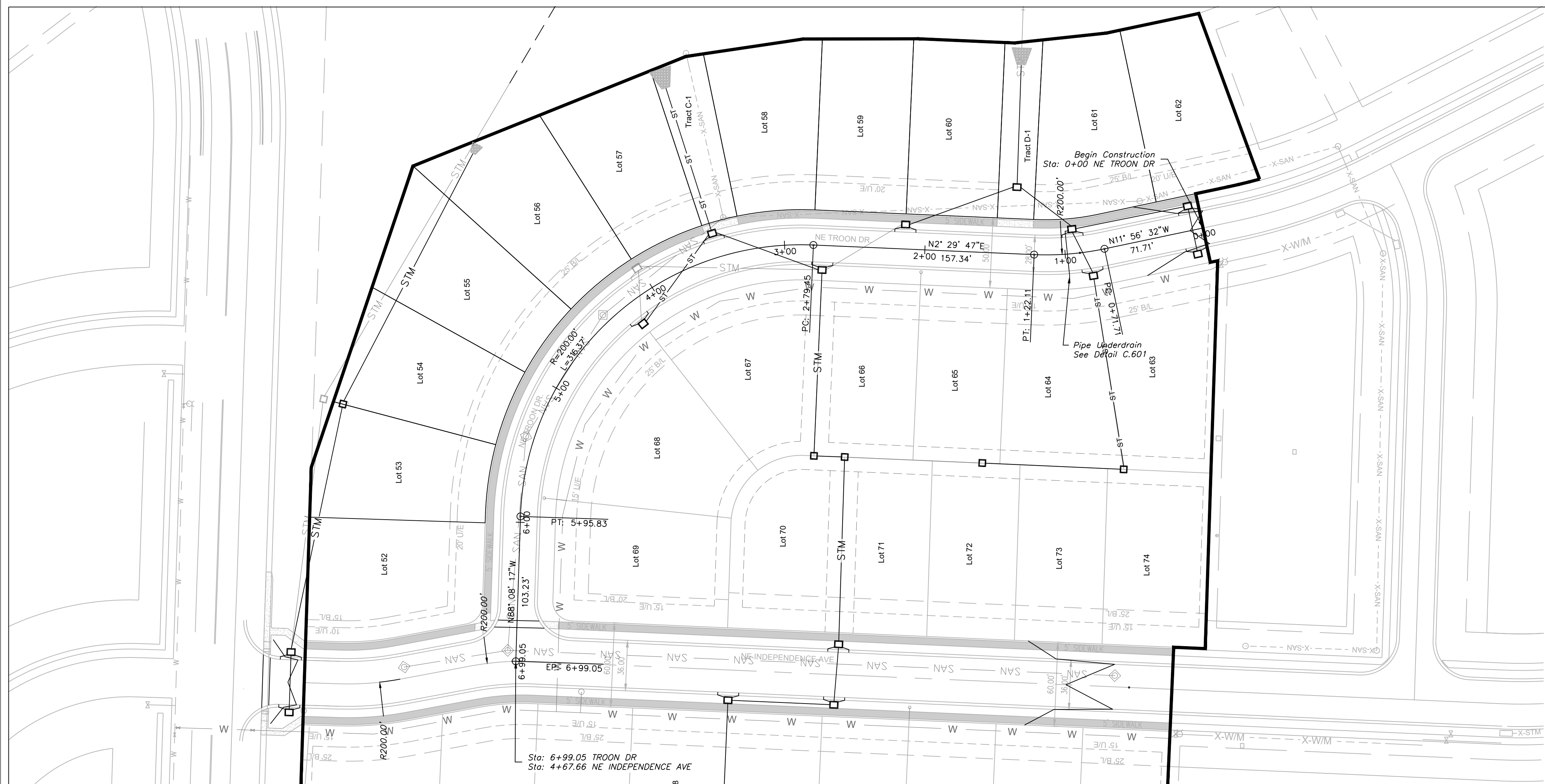
Street Plan and Profile
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri



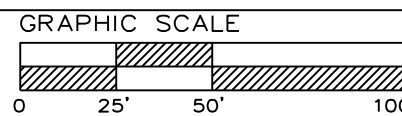
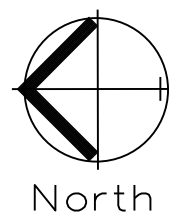
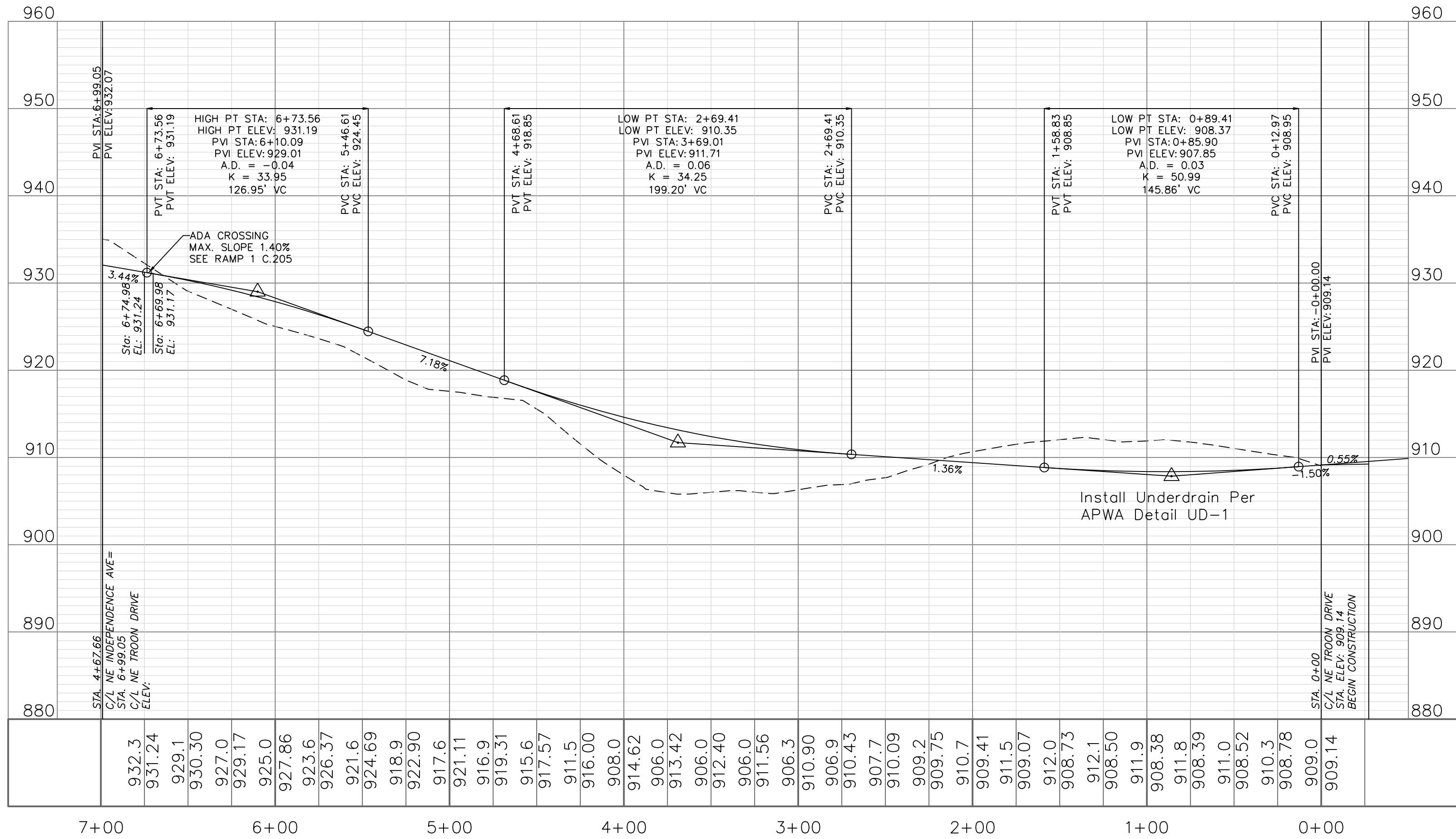
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NE TROON DRIVE



STREET PLAN & PROFILE
SCALE: 1" = 50'

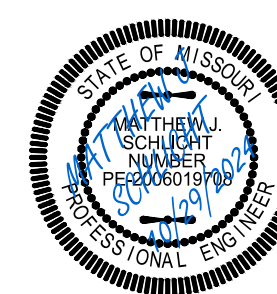


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THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

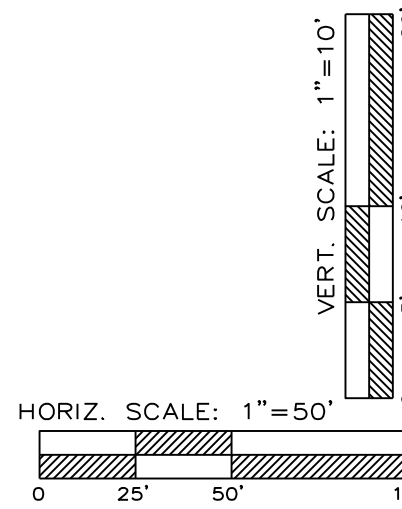
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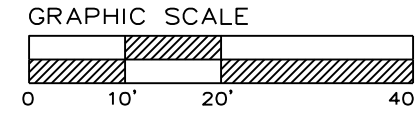
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Lee's Summit, Jackson County, Missouri



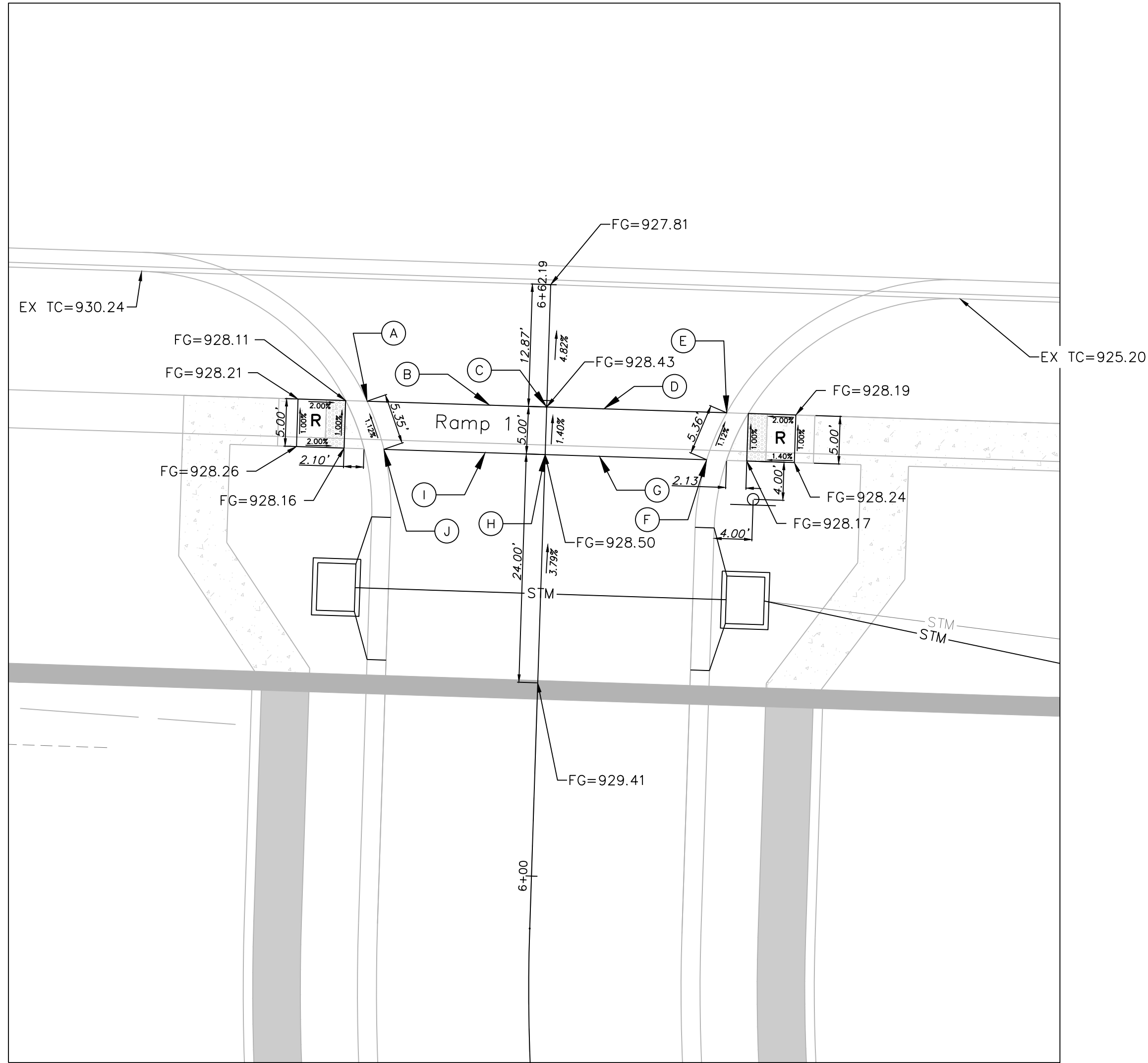
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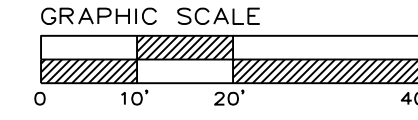


SIDEWALK AND INTERSECTION PLAN
SCALE: 1" = 20'

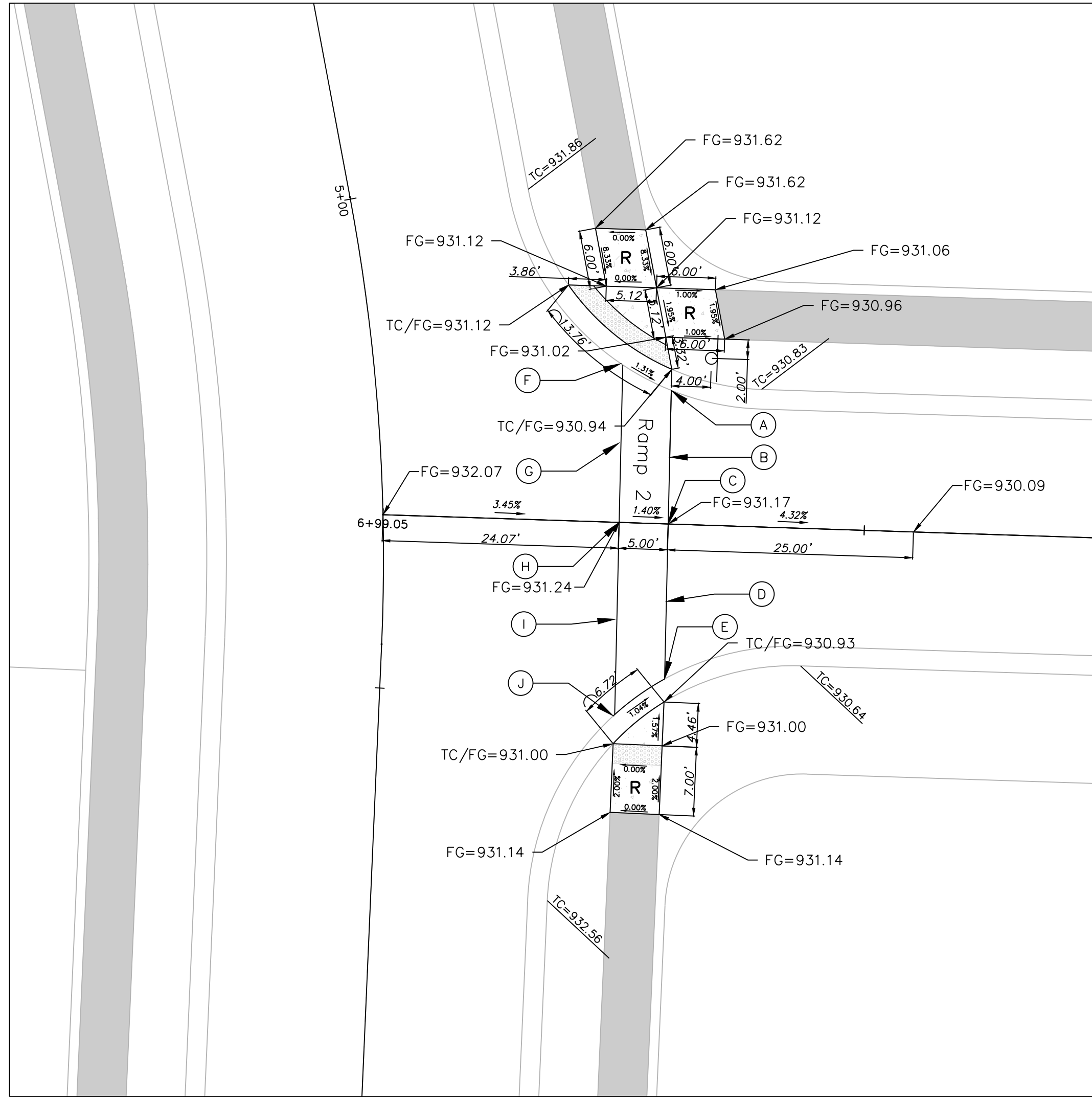


DETAIL 1

SPOT ELEVATION TABLE				
Spot	Ramp 1 Elevation	Ramp 2 Elevation		
A	928.11	930.84		
B	928.31	931.00		
C	928.43	931.17		
D	928.31	931.00		
E	928.09	930.83		
F	928.15	930.92		
G	928.39	931.08		
H	928.50	931.24		
I	928.39	931.07		
J	928.17	930.90		



SIDEWALK AND INTERSECTION PLAN
SCALE: 1" = 20'



DETAIL 2

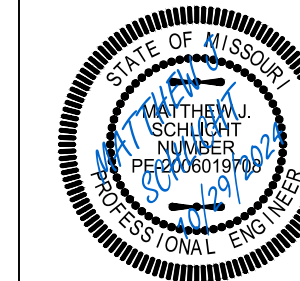


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THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

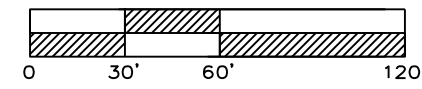
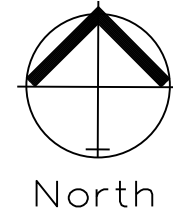
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Sidewalk and
Intersection Plan
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri



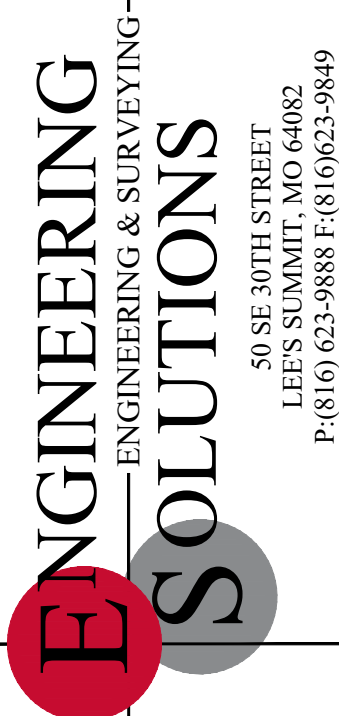
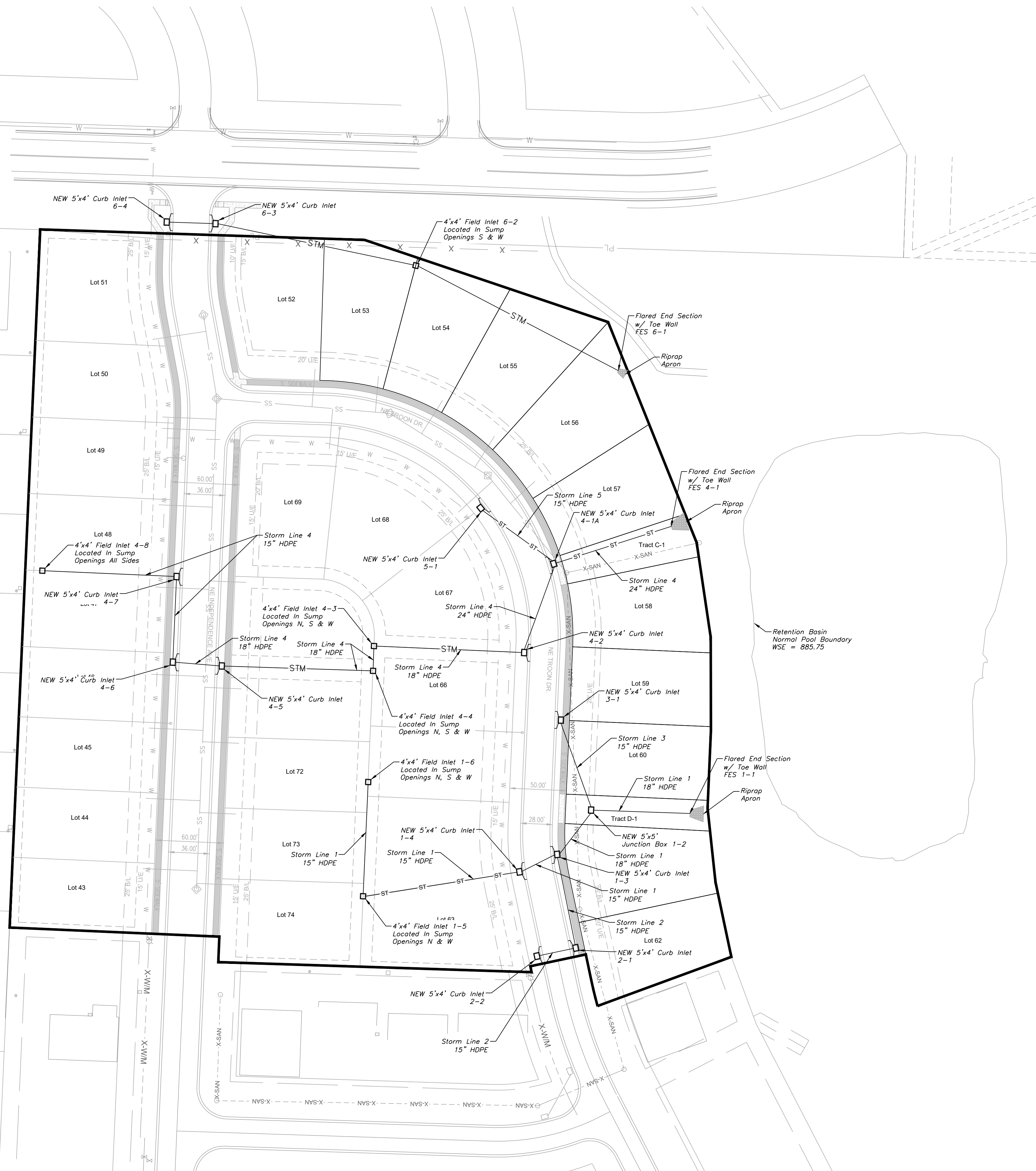
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REV. 5/29/2024
REV. 10/29/2024



CONCEPTUAL STORM SEWER GENERAL LAYOUT

SCALE: 1" = 60'

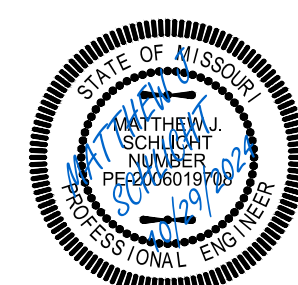


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THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

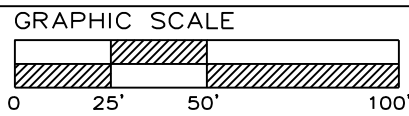
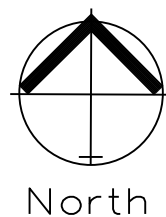
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Conceptual Storm Sewer General Layout
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri



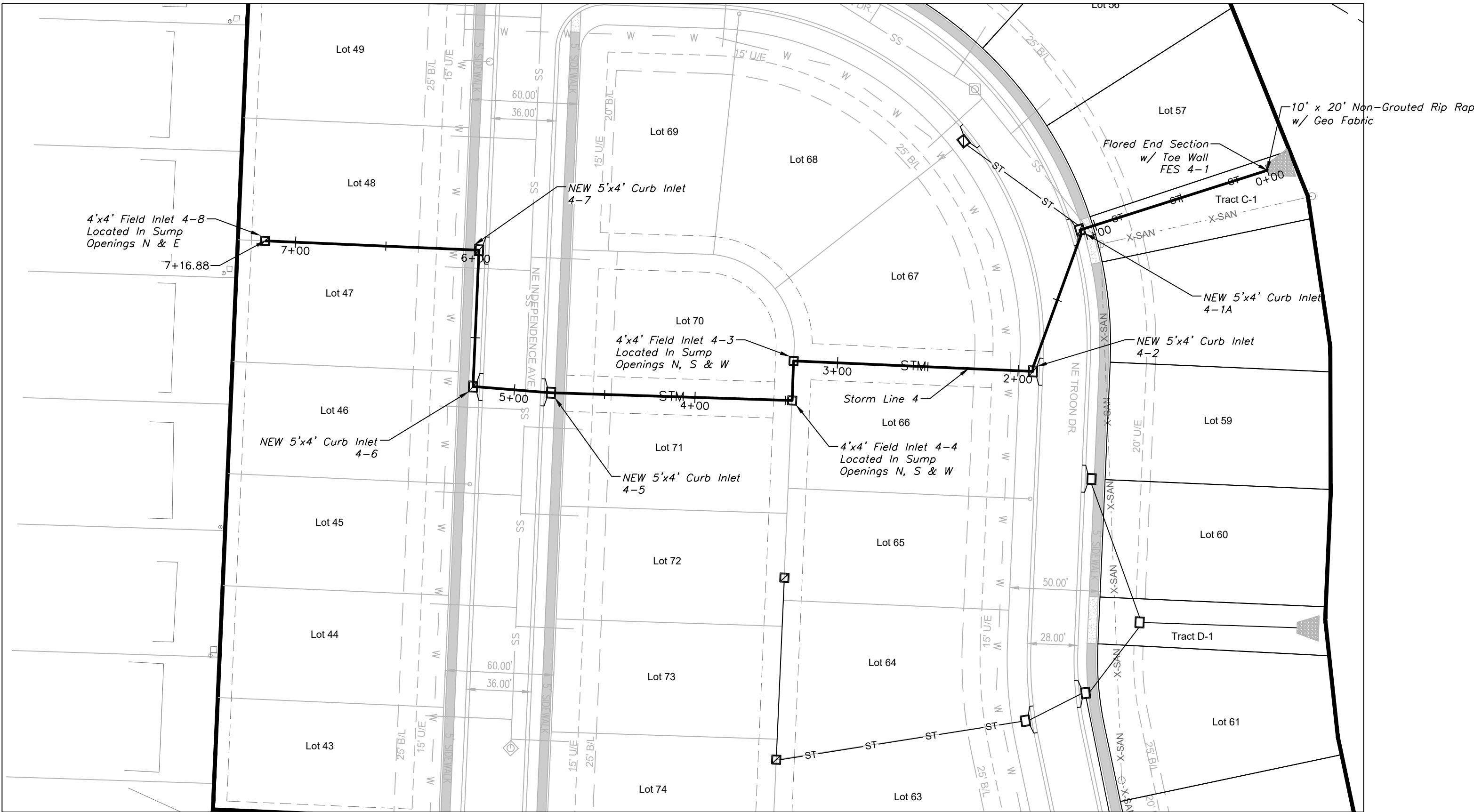
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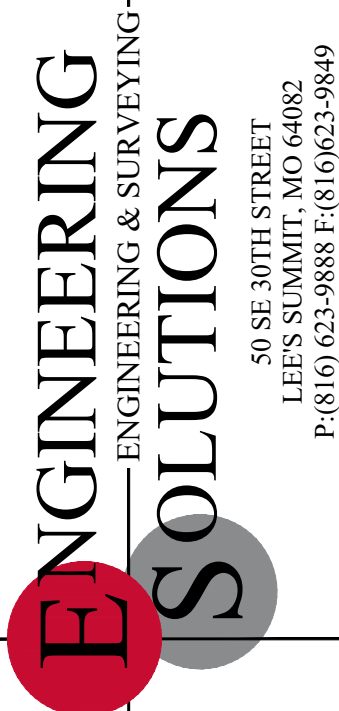
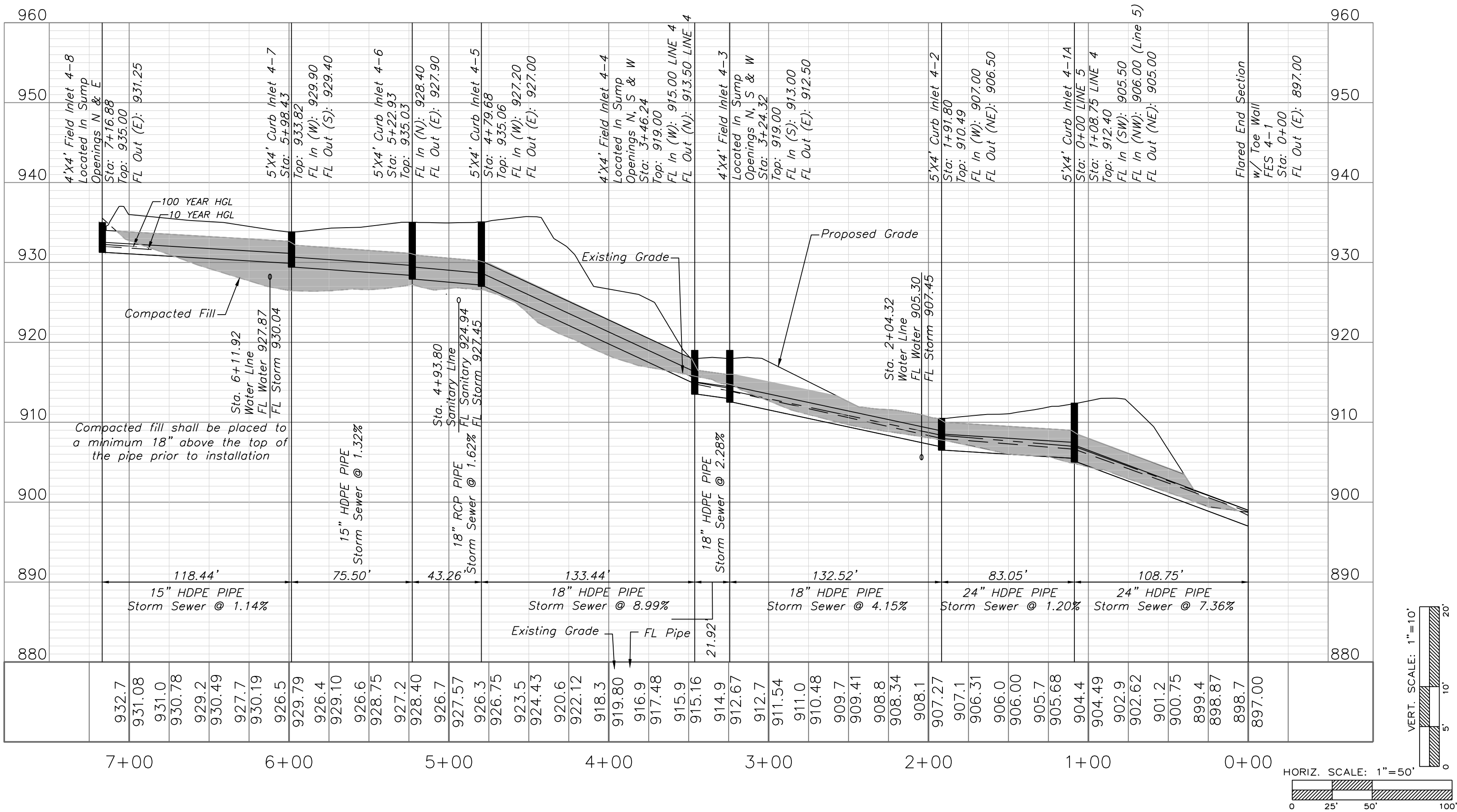


STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'



STORM LINE 4

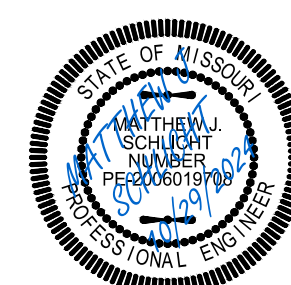


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LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri

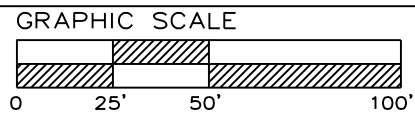
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Storm Sewer Plan and Profile
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
LOTS 43-74 and Tracts C-1 & D-1
Lee's Summit, Jackson County, Missouri



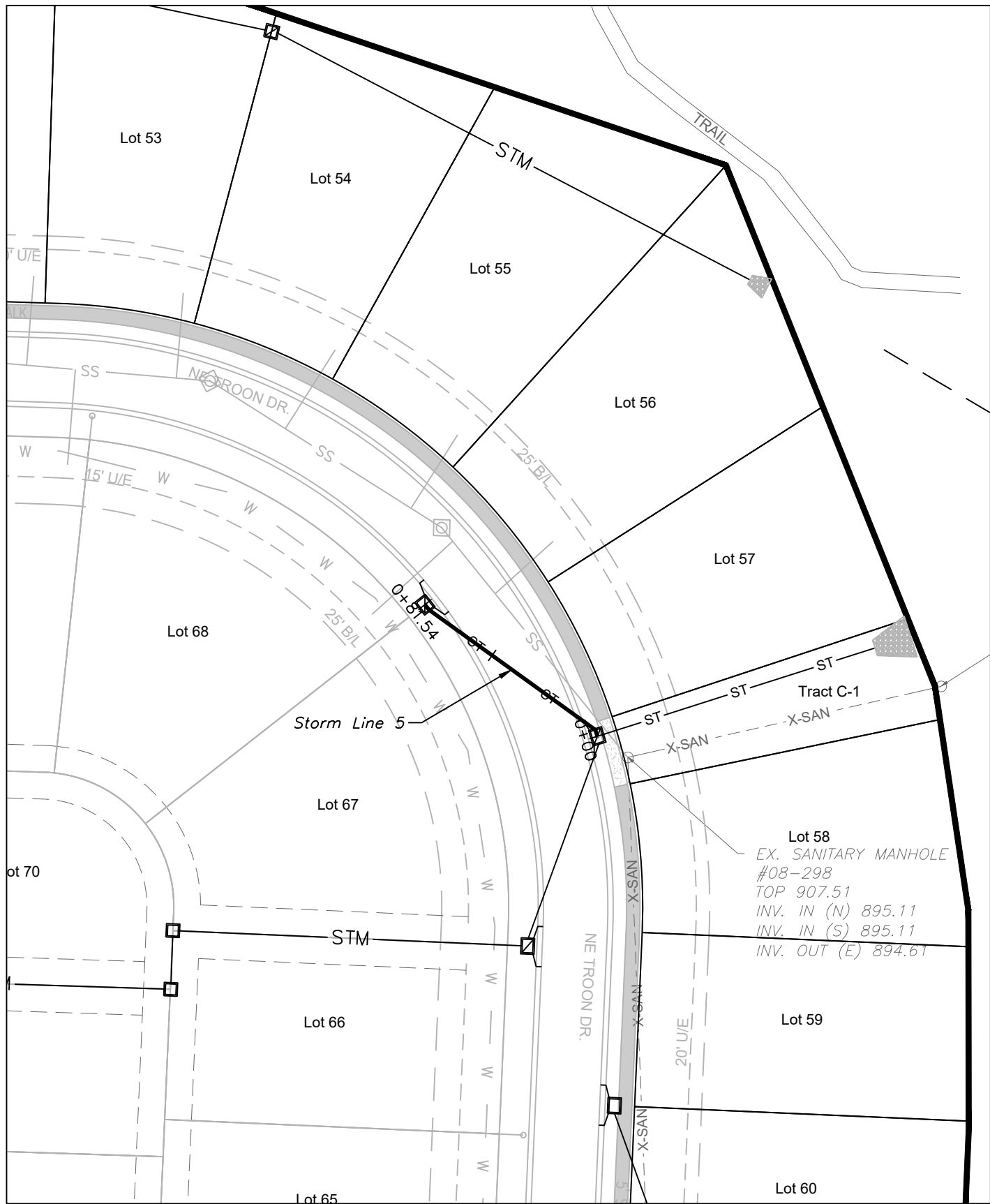
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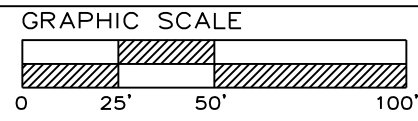
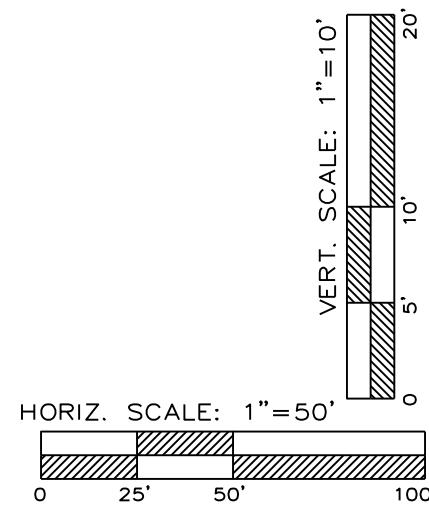
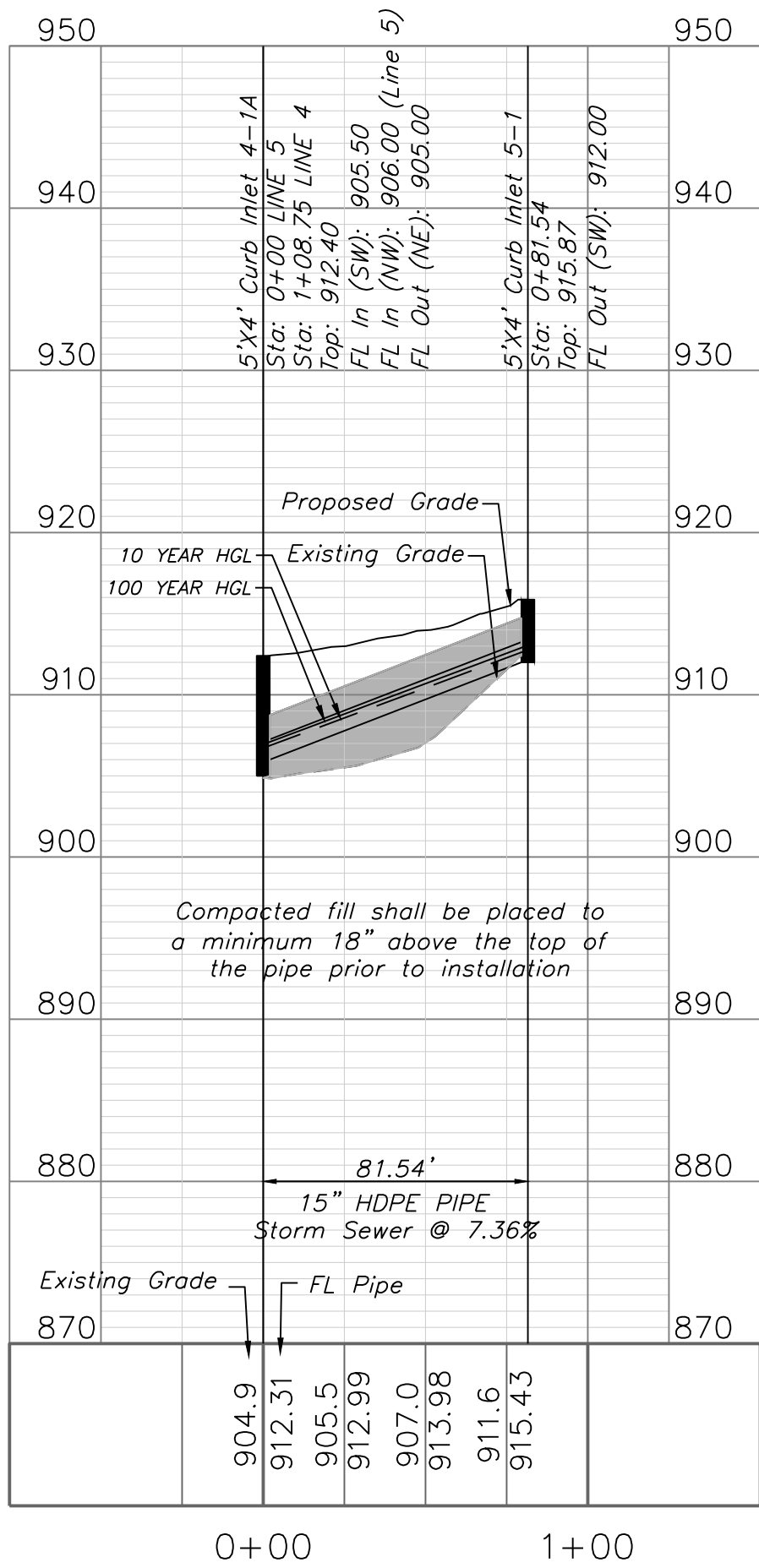


STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'

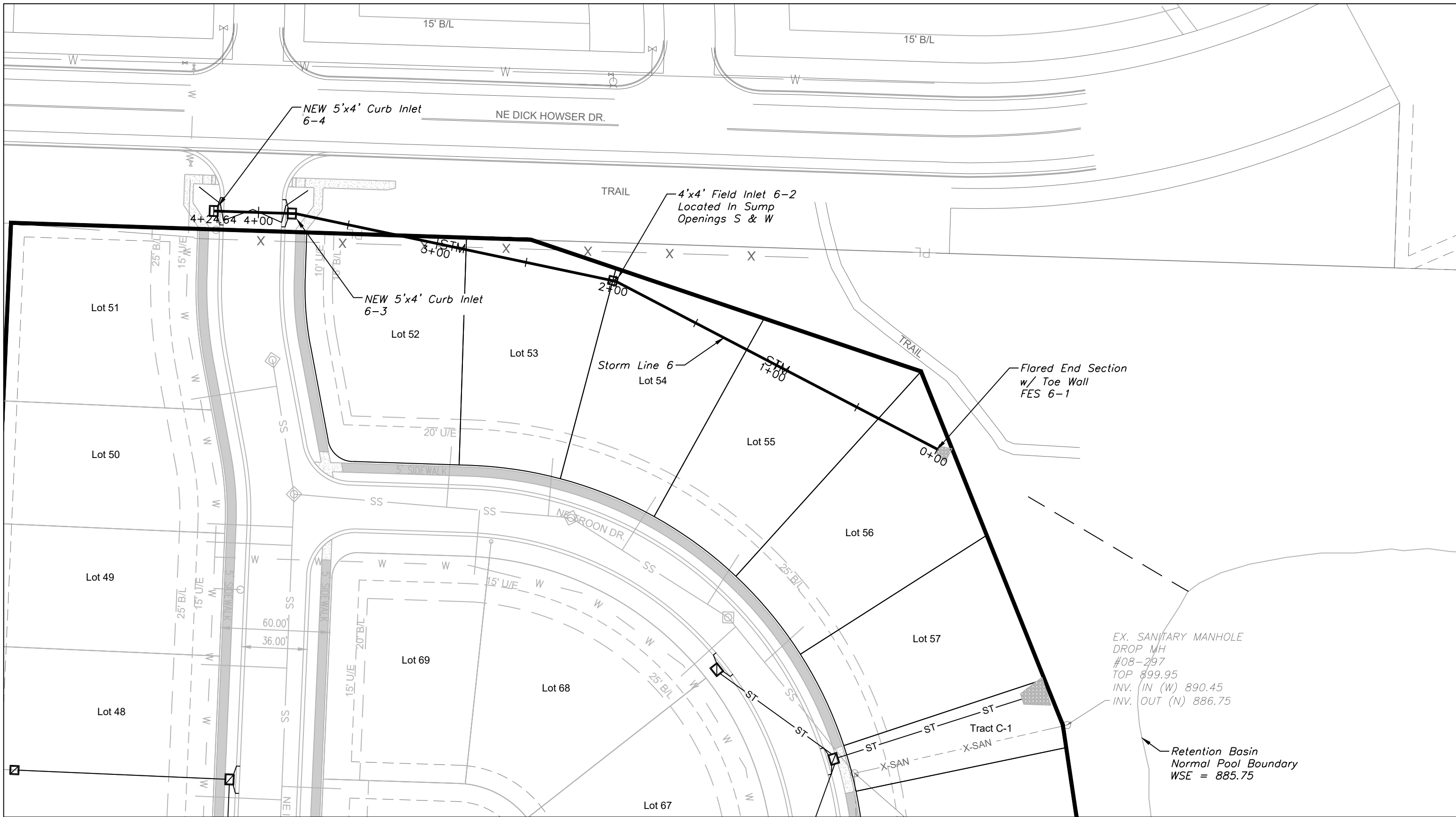


STORM LINE 5

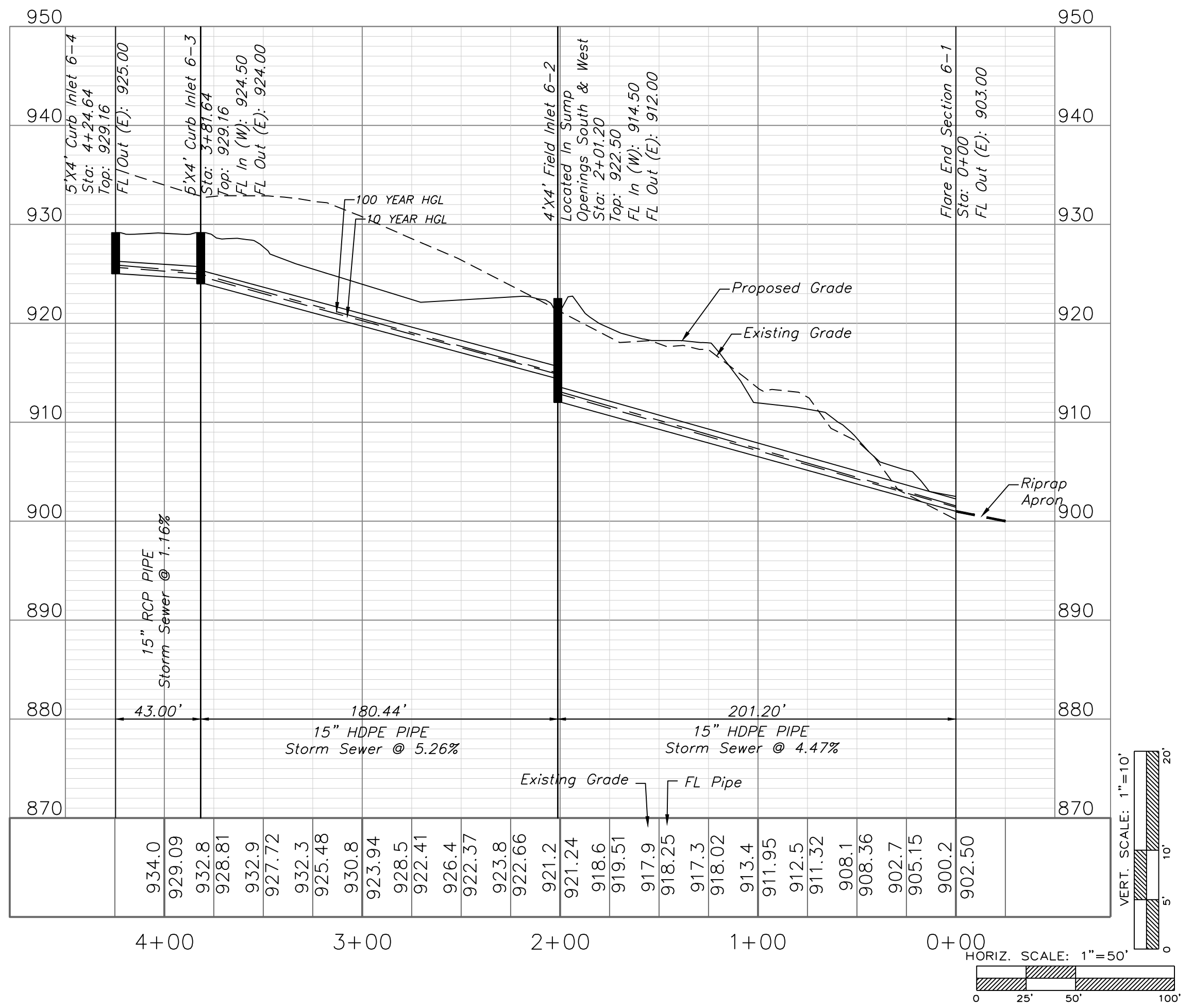


STORM SEWER PLAN & PROFILE

SCALE: 1" = 50'



STORM LINE 6

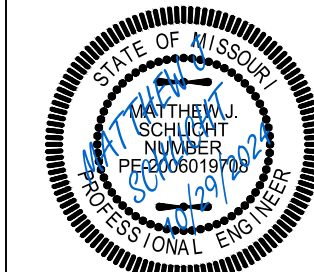


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Lee's Summit, Jackson County, Missouri

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Storm Sewer Plan and Profile
Construction Plans for:
THE VILLAS OF CHAPEL RIDGE-2ND PLAT
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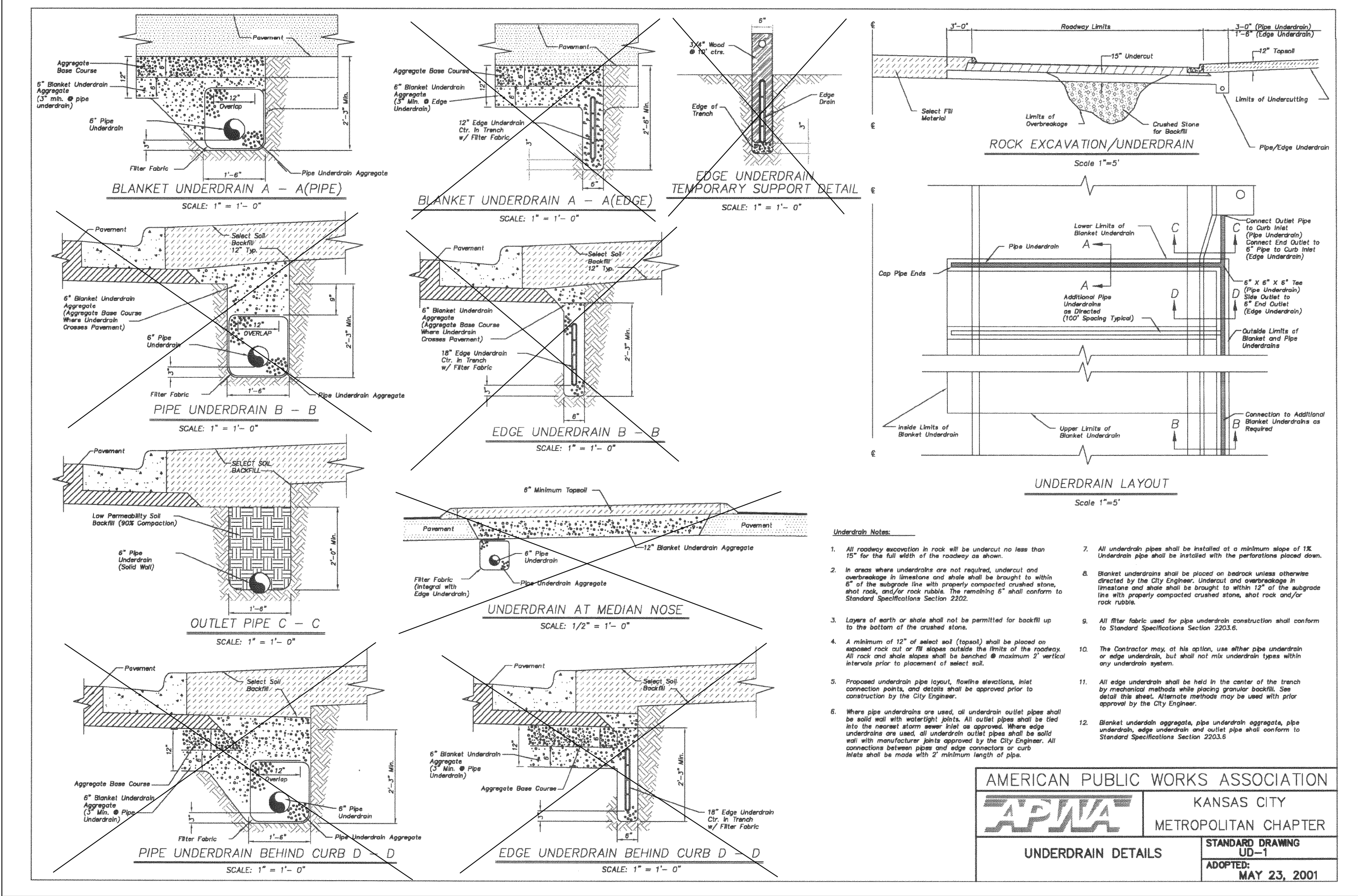
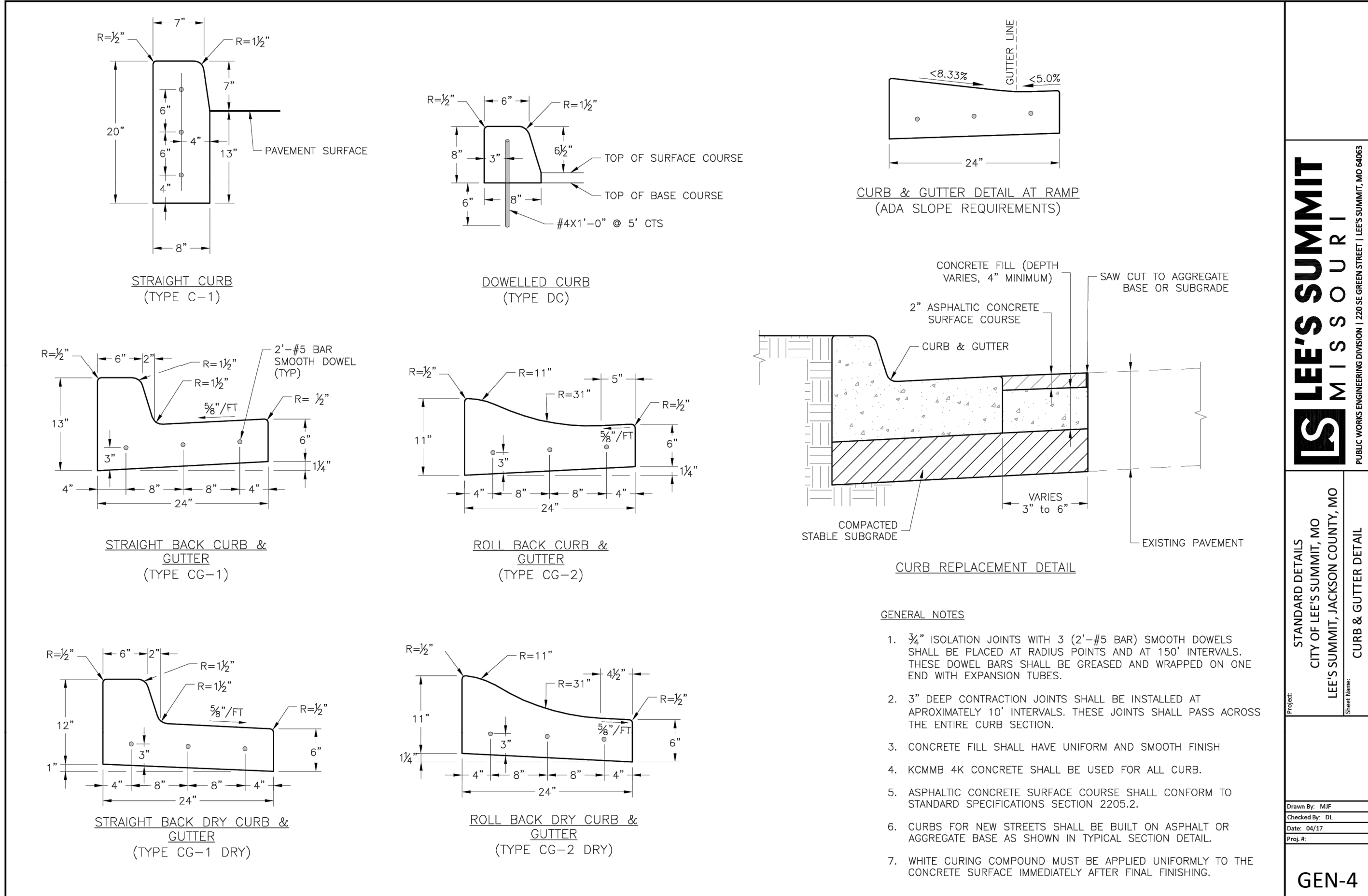
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REV. 10/29/2024

10-YR STRUCTURE																							
D.S. Str.	Str. No.	Area (ac)	InletTime (min)	Int. (in/hr)	RunoffCoeff. (C)	Q=CIA (cfs)	Q Carry-over (cfs)	QCaptured (cfs)	QBypassed (cfs)	JunctType	CurbHeight (in)	CurbLength (ft)	GutterSlope (ft/ft)	GutterWidth (ft)	CrossSlope, Sw (ft/ft)	CrossSlope, Sx (ft/ft)	LocalDepr. (in)	InletDepth (ft)	BypassDepth (ft)	BypassSpread (ft)	GutterDepth (ft)	GutterSpread (ft)	BypassLine No.
1-1	1-2	0	0	0	0	0	....	....	....	MH	....	....	....	....	....	....	....	....	....	....	....	....	....
1-2	1-3	0.21	5.8	7.11	0.66	0.99	0	0.99	0	Curb	3.8	5	Sag	2	0.05	0.02	9	0.95	n/a	n/a	0.2	6.77	Sag
1-3	1-4R	0.68	6.6	6.9	0.66	3.09	2.74	5.84	0	Curb	3.8	5	Sag	2	0.05	0.02	9	1.25	n/a	n/a	0.5	22.15	Sag
1-4R	1-4L	0.24	5.4	7.23	0.66	1.14	0	1.14	0	Curb	3.8	5	Sag	2	0.05	0.02	9	0.96	n/a	n/a	0.21	7.47	Sag
1-4	1-5	0.23	5.1	7.31	0.66	1.11	0	1.11	0	Dp-Curb	6	8	Sag	....	0.02	0.02	....	0.13	n/a	n/a	0.13	6.44	Sag
1-5	1-6	0.29	5.3	7.26	0.66	1.39	0.81	2.2	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.15	n/a	n/a	0.15	7.74	Sag
1-3	2-1	0.17	6.4	6.95	0.66	0.78	0	0.78	0	Curb	3.8	5	0.015	2	0.05	0.02	9	0.9	0	0	0.15	4.69	1-3
2-1	2-2	0.73	5.8	7.11	0.66	3.43	0	2.62	0.81	Curb	3.8	5	0.015	2	0.05	0.02	9	1	0.16	4.78	0.25	9.29	1-4
1-2	3-1	0.22	5.7	7.14	0.66	1.04	0.2	1.24	0	Curb	3.8	5	0.017	2	0.05	0.02	9	0.92	0.01	0.16	0.17	5.73	1-3
4-1	4-1A	0.31	5.6	7.17	0.66	1.47	0	1.27	0.2	Curb	3.8	5	0.062	2	0.05	0.02	9	0.9	0.07	1.46	0.15	4.5	3-1
4-1A	4-2	0.72	5.8	7.11	0.66	3.38	2.92	3.56	2.74	Curb	3.8	5	0.017	2	0.05	0.02	9	1.04	0.22	8.23	0.29	11.61	1-4
4-2	4-3	0.15	5	7.34	0.66	0.73	0	0.73	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.07	n/a	n/a	0.07	3.7	Sag
4-3	4-4	0.09	5.1	7.31	0.66	0.43	0	0.43	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.05	n/a	n/a	0.05	2.63	Sag
4-4	4-5	0.32	5.8	7.11	0.66	1.5	0	1.46	0.04	Curb	3.8	5	0.019	2	0.05	0.02	9	0.93	0.05	1.02	0.18	6.13	5-1
4-5	4-6	1.38	7.1	6.77	0.66	6.16	0	3.46	2.71	Curb	3.8	5	0.019	2	0.05	0.02	9	1.04	0.22	7.99	0.29	11.26	4-7
4-6	4-7	0.2	6.8	6.84	0.66	0.9	2.71	2.44	1.17	Curb	3.8	5	0.015	2	0.02	0.02	9	0.95	0.13	6.57	0.2	10.01	6-4
4-7	4-8	0.76	5.6	7.17	0.66	3.6	0	3.6	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.18	n/a	n/a	0.18	8.88	Sag
4-1A	5-1	0.79	6.7	6.87	0.66	3.58	0.04	0.7	2.92	Curb	3.8	5	0.08	2	0.05	0.02	0	0.19	0.18	5.98	0.19	6.61	4-2
6-1	6-2	0.38	7.2	6.74	0.66	1.69	0	1.69	0	Dp-Curb	6	8	Sag	....	0.02	0.02	....	0.17	n/a	n/a	0.17	8.52	Sag
6-2	6-3	0.13	7.2	6.74	0.66	0.58	1.17	1.52	0.23	Curb	3.8	5	0.038	2	0.05	0.02	9	0.92	0.08	1.68	0.17	5.59	Offsite
6-3	6-4	0.61	7.2	6.74	0.66	2.71	0	2	0.71	Curb	3.8	5	0.038	2	0.05	0.02	9	0.95	0.13	3.39	0.2	6.86	Offsite

10-YR PIPE																						
D.S. Str.	U.S. Str.	LineLength (ft)	Incr.Area (ac)	TotalArea (ac)	RunoffCoeff. (C)	IncrC x A	TotalC x A	InletTime (min)	TimeConc (min)	RnfalInt (in/hr)	TotalRunoff (cfs)	TotalFlow (cfs)	CapacFull (cfs)	Veloc (ft/s)	PipeSize (in)	PipeSlope (%)	Inv ElevDn (ft)	Inv ElevUp (ft)	HGLDn (ft)	HGLUp (ft)	Grnd/RimDn (ft)	Grnd/RimUp (ft)
1-1	1-2	85.16	0	2.77	0	0	1.83	0	6.8	6.8	12.52	12.52	26.67	7.4	18	3.82	898.00	901.25	899.42	902.58	0.00	908.00
1-2	1-3	50.27	0.21	2.55	0.66	0.14	1.68	5.8	6.7	6.9	11.57	11.57	19.25	9.26	18	1.99	901.75	902.75	902.59	904.05	908.00	908.47
1-3	1-4R	36.85	0.68	1.44	0.66	0.45	0.95	6.6	6.6	6.9	6.55	6.55	13.83	7.01	15	2.71	903.25	904.25	904.05	905.28	908.47	908.48
1-4R	1-4L	1	0.24	0.24	0.66	0.16	0.16	5.4	5.4	7.2	1.14	1.14	59.36	2.1	15	50	904.25	904.75	905.28	905.17	908.48	908.48
1-4	1-5	135.56	0.23	0.52	0.66	0.15	0.34	5.1	5.7	7.1	2.45	2.45	21.33	4.47	15	6.45	904.75	913.50	905.28	914.13	908.48	920.00
1-5	1-6	96.77	0.29	0.29	0.66	0.19	0.19	5.3	5.3	7.3	1.39	1.39	8.53	4.23	15	1.03	914.00	915.00	914.34	915.47	920.00	919.00
1-3	2-1	84.05	0.17	0.9	0.66	0.11	0.59	6.4	6.4	6.9	4.13	4.13	6.47	5.21	15	0.59	903.75	904.25	904.48	905.07	908.47	909.13
2-1	2-2	34.97	0.73	0.73	0.66	0.48	0.48	5.8	5.8	7.1	3.43	3.43	7.1	5.11	15	0.71	904.75	905.00	905.36	905.75	909.13	909.13
1-2	3-1	78.98	0.22	0.22	0.66	0.15	0.15	5.7	5.7	7.1	1.04	1.04	18.29	2.13	15	4.75	901.75	905.50	902.58	905.90	908.00	909.70
4-1	4-1A	106.75	0.31	4.72	0.66	0.2	3.12	5.6	7.8	6.6	20.55	20.55	80.49	7.19	24	7.49	897.00	905.00	898.81	906.62	0.00	912.40
4-1A	4-2	78.04	0.72	3.62	0.66	0.48	2.39	5.8	7.6	6.6	15.85	15.85	33.28	7.64	24	1.28	905.50	906.50	906.62	907.93	912.40	910.49
4-2	4-3	132.52	0.15	2.9	0.66	0.1	1.91	5	7.4	6.7	12.81	12.81	27.81	9.37	18	4.15	907.00	912.50	907.93	913.84	910.49	919.00
4-3	4-4	21.92	0.09	2.75	0.66	0.06	1.82	5.1	7.4	6.7	12.16	12.16	20.62	9.63	18	2.28	913.00	913.50	913.84	914.82	919.00	919.00
4-4	4-5	133.44	0.32	2.66	0.66	0.21	1.76	5.8	7.2	6.7	11.84	11.84	40.94	13.64	18	8.99	915.00	927.00	915.55	928.31	919.00	935.06
4-5	4-6	43.26	1.38	2.34	0.66	0.91	1.54	7.1	7.1	6.8	10.45	10.45	17.37	7.08	18	1.62	927.20	927.90	928.31	929.14	935.06	935.03
4-6	4-7	75.5	0.2	0.96	0.66	0.13	0.63	6.8	6.8	6.8	4.34	4.34	9.66	5.32	15	1.32	928.40	929.40	929.14	930.24	935.03	933.82
4-7	4-8	118.44	0.76	0.76	0.66	0.5	0.5	5.6	5.6	7.2	3.6	3.6	8.96	5.73	15	1.14	929.90	931.25	930.45	932.02	933.82	935.00
4-1A	5-1	76.54	0.79	0.79	0.66	0.52	0.52	6.7	6.7	6.9	3.58	3.58	23.5	5.2	15	7.84	906.00	912.00	906.62	912.76	912.40	915.87
6-1	6-2	199.2	0.38	1.12	0.66	0.25	0.74	7.2	7.7	6.6	4.89	4.89	17.84	4.78	15	4.52	903.00	912.00	904.07	912.90	0.00	922.50
6-2	6-3	176.44	0.13	0.74	0.66	0.09	0.49	7.2	7.4	6.7	3.27	3.27	19.48	8.1	15	5.38	914.50	924.00	914.85	924.73	922.50	929.16
6-3	6-4	50	0.61	0.61	0.66	0.4	0.4	7.2	7.2	6.7	2.71	2.71	8.39	5.11	15	1	924.50	925.00	924.99	925.66	929.16	929.16

100-YR STRUCTURE																							
D.S. Str.	Str. No.	Area (ac)	InletTime (min)	Int. (in/hr)	RunoffCoeff. (C)	Q=CIA (cfs)	Q Carry-over (cfs)	QCaptured (cfs)	QBypassed (cfs)	JunctType	CurbHeight (in)	CurbLength (ft)	GutterSlope (ft/ft)	GutterWidth (ft)	CrossSlope, Sw (ft/ft)	CrossSlope, Sx (ft/ft)	LocalDepr. (in)	InletDepth (ft)	BypassDepth (ft)	BypassSpread (ft)	GutterDepth (ft)	GutterSpread (ft)	BypassLine No.
1-1	1-2	0	0	0	0	0	....	....	....	MH	....	....	....	....	....	....	....	....	....	....	....	....	....
1-2	1-3	0.21	5.8	12.52	0.66	1.74	0.43	2.16	0	Curb	3.8	5	Sag	2	0.05	0.02	9	1.04	n/a	n/a	0.29	11.42	Sag
1-3	1-4R	0.68	6.6	12.17	0.66	5.46	6.99	12.45	0	Curb	3.8	5	Sag	2	0.05	0.02	9	1.54	n/a	n/a	0.79	36.72	Sag
1-4R	1-4L	0.24	5.4	12.71	0.66	2.01	0	2.01	0	Curb	3.8	5	Sag	2	0.05	0.02	9	1.03	n/a	n/a	0.28	10.89	Sag
1-4	1-5	0.23	5.1	12.85	0.66	1.95	0	1.95	0	Dp-Curb	6	8	Sag	....	0.02	0.02	....	0.19	n/a	n/a	0.19	9.37	Sag
1-5	1-6	0.29	5.3	12.75	0.66	2.44	2.48	4.92	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.27	n/a	n/a	0.27	13.25	Sag
1-3	2-1	0.17	6.4	12.26	0.66	1.38	0	1.37	0	Curb	3.8	5	0.015	2	0.05	0.02	9	0.93	0.02	0.47	0.18	6.22	1-3
2-1	2-2	0.73	5.8	12.52	0.66	6.03	0	3.55	2.48	Curb	3.8	5	0.015	2	0.05	0.02	9	1.04	0.22	8.09	0.29	11.7	1-4
1-2	3-1	0.22	5.7	12.57	0.66	1.82	0.78	2.18	0.42	Curb	3.8	5	0.017	2	0.05	0.02	9	0.97	0.12	3.12	0.22	8.05	1-3
4-1	4-1A	0.31	5.6	12.61	0.66	2.58	0	1.8	0.78	Curb	3.8	5	0.062	2	0.05	0.02	9	0.93	0.12	3.05	0.18	5.99	3-1
4-1A	4-2	0.72	5.8	12.52	0.66	5.95	5.83	4.79	6.99	Curb	3.8	5	0.017	2	0.05	0.02	9	1.11	0.3	12.11	0.36	14.89	1-4
4-2	4-3	0.15	5	12.9	0.66	1.28	0	1.28	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.11	n/a	n/a	0.11	5.39	Sag
4-3	4-4	0.09	5.1	12.85	0.66	0.76	0	0.76	0	Dp-Curb	6	12	Sag	....	0.02	0.02	....	0.08	n/a	n/a	0.08	3.82	Sag
4-4	4-5	0.32	5.8	12.52	0.66	2.64	0	2.17	0.47	Curb	3.8	5	0.019	2	0.05	0.02	9	0.97	0.13	3.25	0.22	7.91	5-1
4-5	4-6	1.38	7.1	11.96	0.66	10.89	0	4.53	6.36	Curb	3.8	5	0.019	2	0.05	0.02	9	1.09	0.29	11.4	0.34	14.13	4-7
4-6	4-7	0.2	6.8	12.08	0.66	1.6	6.36	3.68	4.27	Curb	3.8	5	0.015	2	0.02	0.02	9	1.02	0.21	10.66	0.27	13.46	6-4
4-7	4-8	0.76	5.6	12.61	0.66	6.33	0	6.33	0	Dp-Curb	6	16	Sag	....	0.02	0.02	....	0.26	n/a	n/a	0.26	12.94	Sag
4-1A	5-1	0.79	6.7	12.13	0.66	6.32	0.47	0.97	5.83	Curb	3.8	5	0.08	2	0.05	0.02	0	0.23	0.22	8.16	0.23	8.71	4-2
6-1	6-2	0.38	7.2	11.92	0.66	2.99	0	2.99	0	Dp-Curb	6	8	Sag	....	0.02	0.02	....	0.25	n/a	n/a	0.25	12.46	Sag
6-2	6-3	0.13	7.2	11.92	0.66	1.02	4.27	2.86	2.44	Curb	3.8	5	0.038	2	0.05	0.02	9	0.99	0.19	6.54	0.24	9.17	Offsite
6-3	6-4	0.61	7.2	11.92	0.66	4.8	0	2.72	2.08	Curb	3.8	5	0.038	2	0.05	0.02	9	0.99	0.18	6.07	0.24	8.8	Offsite



GENERAL NOTE:

1 - ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.

ADDED UNDERDRAIN DETAILS.

Construction Details

Construction Plans for:

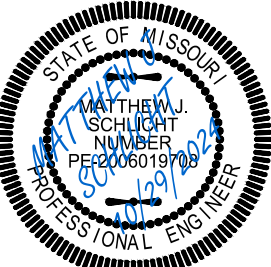
THE VILLAGES OF CHAPEL RIDGE-2ND PLAT

LOTS 43-74 and Tracts C-1 & D-1

Lee's Summit, Jackson County, Missouri

Project: VILLAGES OF CHAPEL RIDGE, LSUMO

Issue Date: June 24, 2022



Matthew J. Schlicht

MO PE 2006019708

KS PE 19071

OK PE 25226

NE PE E-14535

REVISIONS

REV. 8/12/2022

REV. 10/3/2022

REV. 4/26/2023

REV. 5/29/2024

REV. 10/29/2024

Professional Registration

Missouri

Engineering 2005002186-D

Surveying 2005008319-D

Kansas

Engineering E-1695

Surveying LS-218

Oklahoma

Engineering 6254

Nebraska

Engineering CA2821

THE VILLAGES OF CHAPEL RIDGE-2ND PLAT

LOTS 43-74 and Tracts C-1 & D-1

Lee's Summit, Jackson County, Missouri

