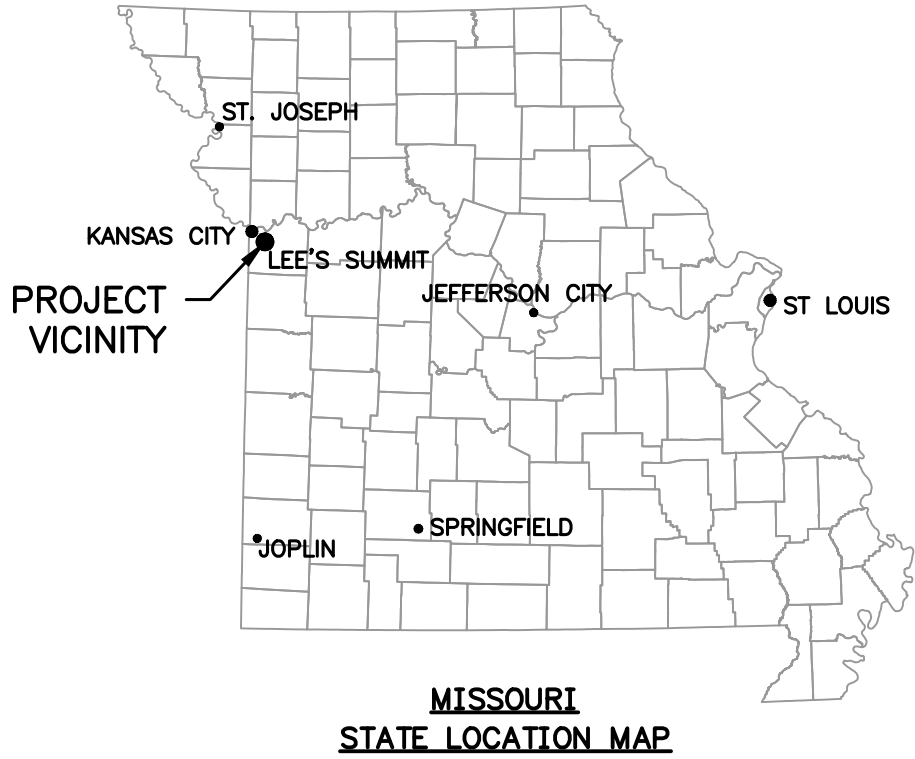


SUMMIT VIEW FARMS 4TH PLAT
LOTS 75-120 AND TRACT D

MASS GRADING, EROSION CONTROL,
PAVING AND STORM SEWER PLANS
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI
SECTION 26, TOWNSHIP 47 N, RANGE 32 W
LAMP RYNEARSON NO. 0318050.02



OWNER CONTACT
BILL KENNEY
SUMMIT VIEW FARMS DEVELOPMENT GROUP, LLC
P.O. BOX 291
LEE'S SUMMIT, MO 64063
billkenney9@gmail.com
(816) 838-0552

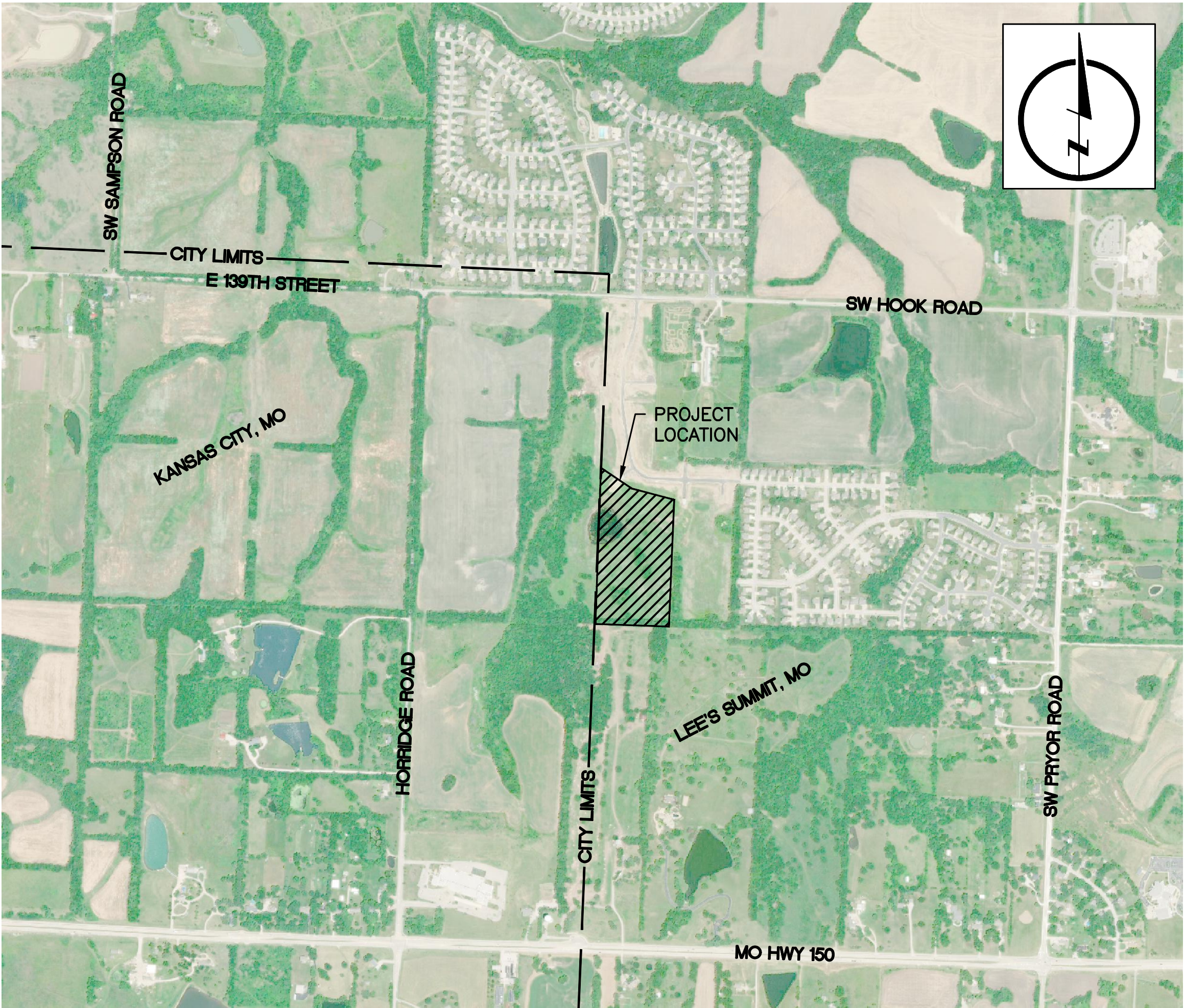
CONSULTANT CONTACT
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Dan.McGhee@lamprynearson.com
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LAMP
RYNEARSON

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- 02 GENERAL LAYOUT PLAN SHEET
- 03 EXISTING CONDITIONS PLAN SHEET
- 04 MASS GRADING PLAN SHEET
- 05 PRE-CLEARING EROSION AND SEDIMENT CONTROL PLAN SHEET
- 06 INACTIVE AREA EROSION AND SEDIMENT CONTROL PLAN SHEET
- 07 FINAL RESTORATION EROSION AND SEDIMENT CONTROL PLAN SHEET
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- 30 SIGNAGE DETAILS SHEET

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LOCATION MAP

ESTIMATED SUMMARY OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT
1	EARTHWORK (STRIP / CUT) (BANK QUANTITY)	10,415	CY
2	EARTHWORK (FILL) (EXCLUDES FINISH GRADING QUANTITY)	13,210	CY
3	TEMPORARY CONSTRUCTION ENTRANCE	1	EA
4	MULCH BERMS / SEDIMENT FENCE	913	LF
5	MAINTAIN SEDIMENT BASIN	1	EA
6	INLET PROTECTION	22	EA
7	TEMPORARY SEEDING	13	AC
8	EARTHWORK (FINISH GRADING)	4,000	CY
9	PERMANENT SEEDING	13	AC
10	NATIVE SWALE SEEDING	945	LF
11	2" TYPE 5 (APWA) VIRGIN AC SURFACE COURSE	9,358	SY
12	4" TYPE 5 (APWA) AC BASE COURSE	6,843	SY
13	5.5" TYPE 5 (APWA) AC BASE COURSE	2,515	SY
14	6" MODOT TYPE 5 BASE	11,246	SY
15	6" SUBGRADE STABILIZATION	8,259	SY
16	9" SUBGRADE STABILIZATION	2,987	SY
17	2' CONCRETE CURB & GUTTER (TYPE CG-1)	1,434	LF
18	2' CONCRETE CURB & GUTTER (TYPE CG-2)	4,229	LF
19	4" CONCRETE SIDEWALK (ALL SIDEWALK IN PLAT)	15,950	SF
20	ADA SIDEWALK RAMPS	985	SF
21	15" STORM SEWER PIPE (HDPE)	557	LF
22	15" STORM SEWER PIPE (PP OR RCP)	120	LF
23	18" STORM SEWER PIPE (HDPE)	285	LF
24	24" STORM SEWER PIPE (HDPE)	431	LF
25	30" STORM SEWER PIPE (HDPE)	196	LF
26	36" STORM SEWER PIPE (HDPE)	89	LF
27	36" STORM SEWER PIPE (PP OR RCP)	211	LF
28	42" STORM SEWER PIPE (HDPE)	391	LF
29	5' X 3' CURB INLET (LS STM-1)	12	EA
30	5' X 4' CURB INLET (LS STM-1)	1	EA
31	5' X 4' CURB INLET (SPECIAL LS STM-1)	1	EA
32	5' X 5' CURB INLET (LS STM-1)	3	EA
33	5' X 7' CURB INLET (SPECIAL LS STM-1)	1	EA
34	8' X 5' CURB INLET (SPECIAL LS STM-1)	1	EA
35	5' X 5' JUNCTION BOX (SPECIAL LS STM-3)	2	EA
36	4' X 4' FIELD INLET (LS STM-2)	3	EA
37	6" PIPE UNDERDRAIN	300	LF

UTILITIES		
ELECTRIC:	EVERGY	(816) 471-5275
GAS:	SPIRE ENERGY	(816) 756-5252
TELEPHONE:	AT&T	(816) 325-5607
CABLE:	SPECTRUM	(816) 358-8833
WATER:	LEE'S SUMMIT WATER UTILITIES	(816) 969-1900
SEWER:	LEE'S SUMMIT WATER UTILITIES	(816) 969-1900

CALL OR CLICK 3 DAYS BEFORE YOU DIG!

MISSOURI
ONE CALL SYSTEM
1-800-DIG-RITE OR 811
www.mo1call.com

ALL UTILITIES ARE SHOWN BASED ON THE INFORMATION AVAILABLE TO THE ENGINEER. THERE IS NO GUARANTEE ALL FACILITIES ARE SHOWN OR THAT THE LOCATION, DEPTH, AND SIZE OF EACH FACILITY IS CORRECT. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES AND SERVICE LINES PRIOR TO CONSTRUCTION. COORDINATE NECESSARY RELOCATIONS WITH UTILITY COMPANIES.



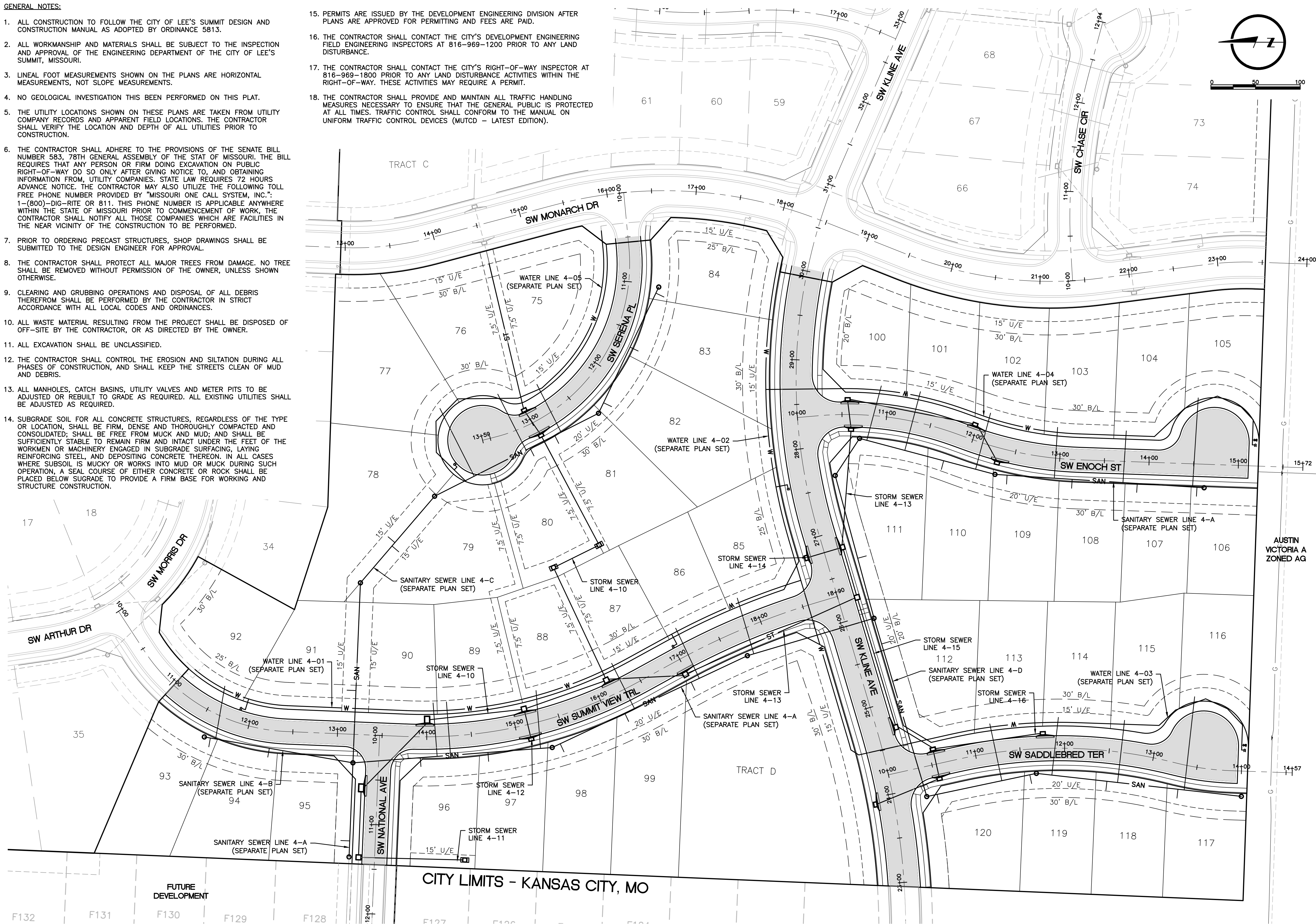
APPROVED: MARK DANIEL MCGHEE JR., PE

DATE: 01-07-2020

GENERAL NOTES:

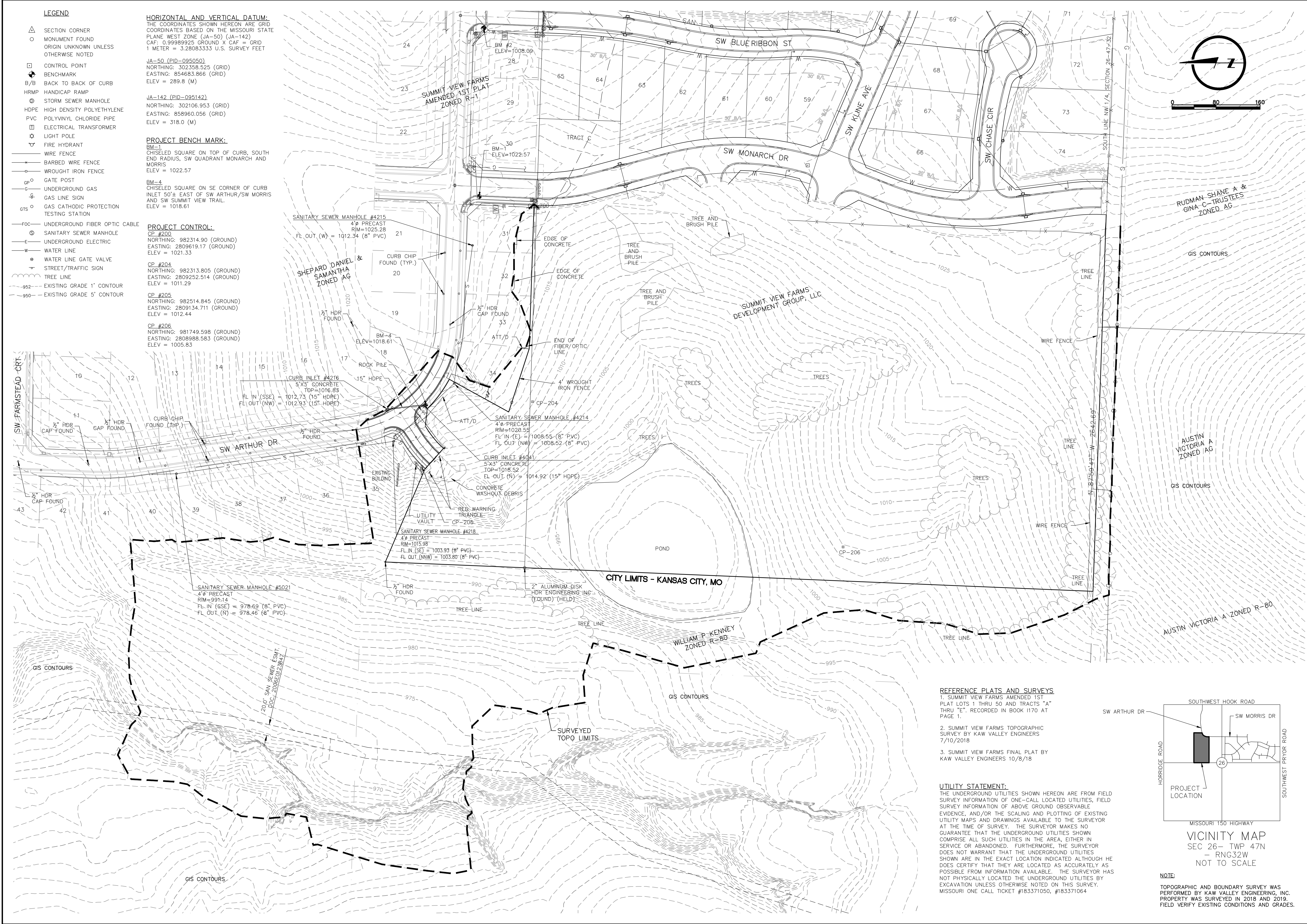
1. ALL CONSTRUCTION TO FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
2. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DEPARTMENT OF THE CITY OF LEE'S SUMMIT, MISSOURI.
3. LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS, NOT SLOPE MEASUREMENTS.
4. NO GEOLOGICAL INVESTIGATION THIS BEEN PERFORMED ON THIS PLAT.
5. 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.
6. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STAT 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 72 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 OR 811. THIS PHONE NUMBER IS APPLICABLE ANYWHERE WITHIN THE STATE OF MISSOURI PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH ARE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
7. PRIOR TO ORDERING PRECAST STRUCTURES, SHOP DRAWINGS SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR APPROVAL.
8. THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE.
9. 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.
10. ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR, OR AS DIRECTED BY THE OWNER.
11. ALL EXCAVATION SHALL BE UNCLASSIFIED.
12. THE CONTRACTOR SHALL CONTROL THE EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION, AND SHALL KEEP THE STREETS CLEAN OF MUD AND DEBRIS.
13. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED. ALL EXISTING UTILITIES SHALL BE ADJUSTED AS REQUIRED.
14. SUBGRADE SOIL FOR ALL CONCRETE STRUCTURES, REGARDLESS OF THE TYPE OR LOCATION, SHALL BE FIRM, DENSE AND THOROUGHLY COMPACTED AND CONSOLIDATED; SHALL BE FREE FROM MUCK AND MUD; AND SHALL BE SUFFICIENTLY STABLE TO REMAIN FIRM AND INTACT UNDER THE FEET OF THE WORKMEN OR MACHINERY ENGAGED IN SUBGRADE SURFACING, LAYING REINFORCING STEEL, AND DEPOSITING CONCRETE THEREON. IN ALL CASES WHERE SUBSOIL IS MUCKY OR WORKS INTO MUD OR MUCK DURING SUCH OPERATION, A SEAL COURSE OF EITHER CONCRETE OR ROCK SHALL BE PLACED BELOW SUBGRADE TO PROVIDE A FIRM BASE FOR WORKING AND STRUCTURE CONSTRUCTION.

15. PERMITS ARE ISSUED BY THE DEVELOPMENT ENGINEERING DIVISION AFTER PLANS ARE APPROVED FOR PERMITTING AND FEES ARE PAID.
16. THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT ENGINEERING FIELD ENGINEERING INSPECTORS AT 816-969-1200 PRIOR TO ANY LAND DISTURBANCE.
17. THE CONTRACTOR SHALL CONTACT THE CITY'S 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.
18. 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).



LAMP RYNEARSON MO CERT. NO. 2013011903 STATE OF MISSOURI MARK DANIEL MCGHEE JR. REGISTERED PROFESSIONAL ENGINEER NO. 000019568 01/07/2020 REVISIONS 01/07/2020 PER CITY COMMENTS		9001 State Line Rd., Ste. 200 Kansas City, MO 64114 816.361.0440 LampRyNearson.com LAMP RYNEARSON	
SUMMIT VIEW FARMS 4TH PLAT		LEE'S SUMMIT, MISSOURI	
MASS GRADING, EROSION CONTROL, PAVING AND STORM SEWER PLANS		GENERAL LAYOUT PLAN	
DESIGNER / DRAFTER MDM/AJM DATE 11/20/2019 PROJECT NUMBER 0318050.02 BOOK AND PAGE		SHEET 02 of 30	

L:\Engineering\03180502 SVFD Summit View Farms 3rd Plat\DRAWINGS\CONSTRUCTION DRAWINGS\4TH PLAT\04D-EC-SW-PLANS\03180502-UG-25-COND.dwg, 1/8/2020 12:57:20 PM, JAMIE MCMURRY, LAMP RYNEARSON



LEGEND

- SECTION CORNER
- MONUMENT FOUND
- ORIGIN UNKNOWN UNLESS OTHERWISE NOTED
- CONTROL POINT
- BENCHMARK
- B/B BACK TO BACK OF CURB
- HRMP HANDICAP RAMP
- STORM SEWER MANHOLE
- HDPPE HIGH DENSITY POLYETHYLENE
- PVC POLYVINYL CHLORIDE PIPE
- ELECTRICAL TRANSFORMER
- LIGHT POLE
- FIRE HYDRANT
- WIRE FENCE
- BARBED WIRE FENCE
- WROUGHT IRON FENCE
- GATE POST
- UNDERGROUND GAS
- GAS LINE SIGN
- GAS CATHODIC PROTECTION TESTING STATION
- UNDERGROUND FIBER OPTIC CABLE
- SANITARY SEWER MANHOLE
- UNDERGROUND ELECTRIC
- WATER LINE
- WATER LINE GATE VALVE
- STREET/TRAFFIC SIGN
- TREE LINE
- EXISTING GRADE 1' CONTOUR
- EXISTING GRADE 5' CONTOUR

HORIZONTAL AND VERTICAL DATUM:
THE COORDINATES SHOWN HEREON ARE GRID COORDINATES BASED ON THE MISSOURI STATE PLANE WEST ZONE (JA-50) (JA-142)
CAF: 0.9989925 GROUND X CAF = GRID
1 METER = 3.28083333 U.S. SURVEY FEET

JA-50 (PID=095050)
NORTHING: 302358.525 (GRID)
EASTING: 854683.866 (GRID)
ELEV = 289.8 (M)

JA-142 (PID=095142)
NORTHING: 302106.953 (GRID)
EASTING: 858960.056 (GRID)
ELEV = 318.0 (M)

PROJECT BENCH MARK:

BM-1
CHISELED SQUARE ON TOP OF CURB, SOUTH END RADIUS, SW QUADRANT MONARCH AND MORRIS
ELEV = 1022.57

BM-4
CHISELED SQUARE ON SE CORNER OF CURB INLET 50'± EAST OF SW ARTHUR/SW MORRIS AND SW SUMMIT VIEW TRAIL
ELEV = 1018.61

PROJECT CONTROL:

CP #200
NORTHING: 982314.90 (GROUND)
EASTING: 2809619.17 (GROUND)
ELEV = 1021.33

CP #204
NORTHING: 982313.805 (GROUND)
EASTING: 2809252.514 (GROUND)
ELEV = 1011.29

CP #205
NORTHING: 982514.845 (GROUND)
EASTING: 2809134.711 (GROUND)
ELEV = 1012.44

CP #206
NORTHING: 981749.598 (GROUND)
EASTING: 2808988.583 (GROUND)
ELEV = 1005.83

REFERENCE PLATS AND SURVEYS

- SUMMIT VIEW FARMS AMENDED 1ST PLAT LOTS 1 THRU 50 AND TRACTS "A" THRU "E". RECORDED IN BOOK 1170 AT PAGE 1.
- SUMMIT VIEW FARMS TOPOGRAPHIC SURVEY BY KAW VALLEY ENGINEERS 7/10/2018
- SUMMIT VIEW FARMS FINAL PLAT BY KAW VALLEY ENGINEERS 10/8/18

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 SURVEY. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES BY EXCAVATION UNLESS OTHERWISE NOTED ON THIS SURVEY. MISSOURI ONE CALL TICKET #183371050, #183371064

NOTE:

TOPOGRAPHIC AND BOUNDARY SURVEY WAS PERFORMED BY KAW VALLEY ENGINEERING, INC. PROPERTY WAS SURVEYED IN 2018 AND 2019. FIELD VERIFY EXISTING CONDITIONS AND GRADES.

LAMP RYNEARSON
MO CERT. NO. 2013011903

01/07/2020
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PE - 2008019568

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SUMMIT VIEW FARMS 4TH PLAT

LEE'S SUMMIT, MISSOURI

MASS GRADING, EROSION CONTROL,
PAVING AND STORM SEWER PLANS

EXISTING CONDITIONS PLAN

DESIGNER / DRAFTER
MDM/AJM
DATE
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BOOK AND PAGE

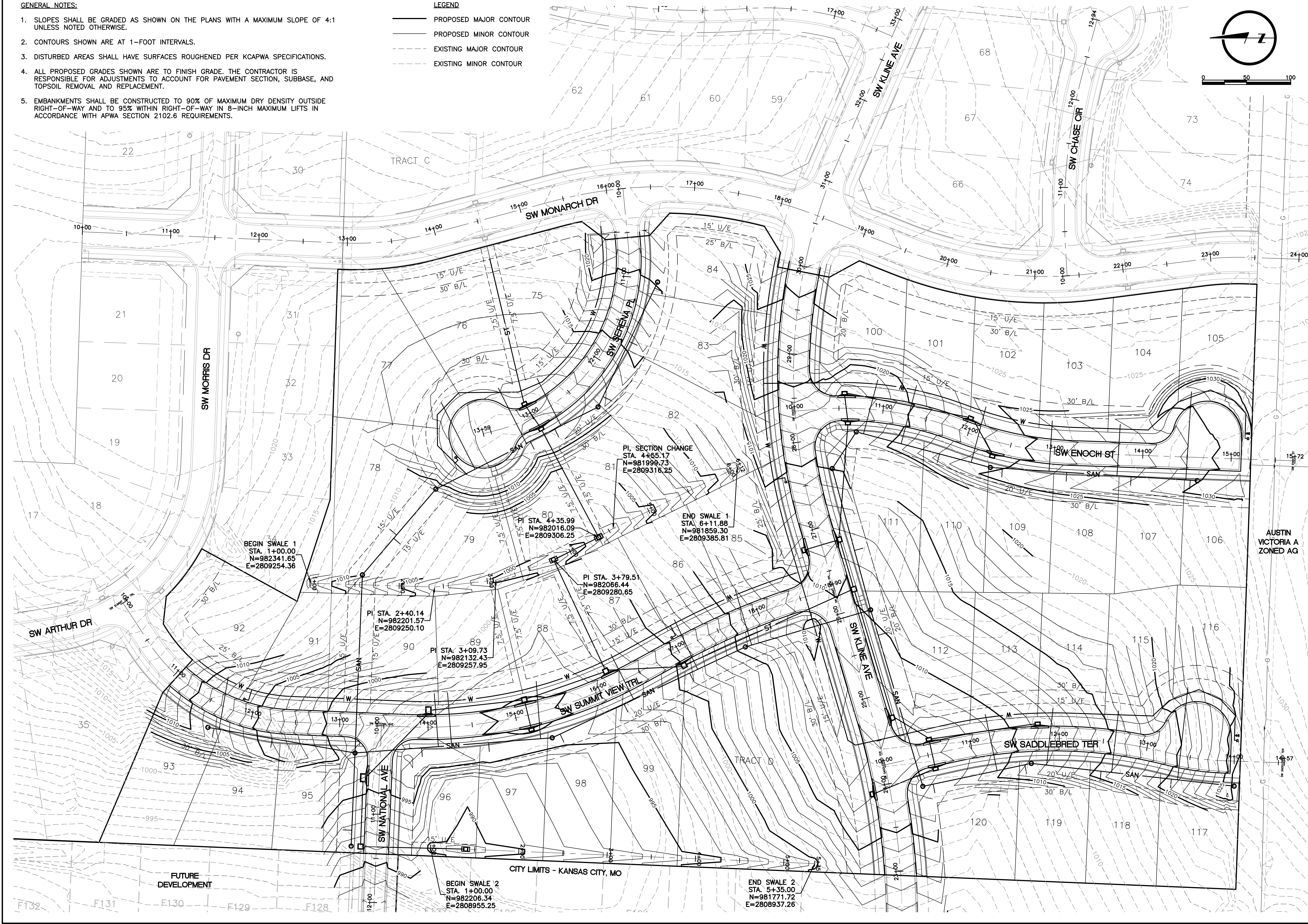
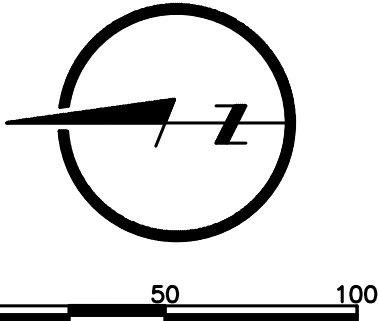
SHEET
03 of 30

GENERAL NOTES:

1. SLOPES SHALL BE GRADED AS SHOWN ON THE PLANS WITH A MAXIMUM SLOPE OF 4:1 UNLESS NOTED OTHERWISE.
2. CONTOURS SHOWN ARE AT 1-FOOT INTERVALS.
3. DISTURBED AREAS SHALL HAVE SURFACES ROUGHENED PER KCAPWA SPECIFICATIONS.
4. ALL PROPOSED GRADES SHOWN ARE TO FINISH GRADE. THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTMENTS TO ACCOUNT FOR PAVEMENT SECTION, SUBBASE, AND TOPSOIL REMOVAL AND REPLACEMENT.
5. EMBANKMENTS SHALL BE CONSTRUCTED TO 90% OF MAXIMUM DRY DENSITY OUTSIDE RIGHT-OF-WAY AND TO 95% WITHIN RIGHT-OF-WAY IN 8-INCH MAXIMUM LIFTS IN ACCORDANCE WITH APWA SECTION 2102.6 REQUIREMENTS.

LEGEND

- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR



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SUMMIT VIEW FARMS 4TH PLAT

LEE'S SUMMIT, MISSOURI

MASS GRADING, EROSION CONTROL,
PAVING AND STORM SEWER PLANS

MASS GRADING PLAN

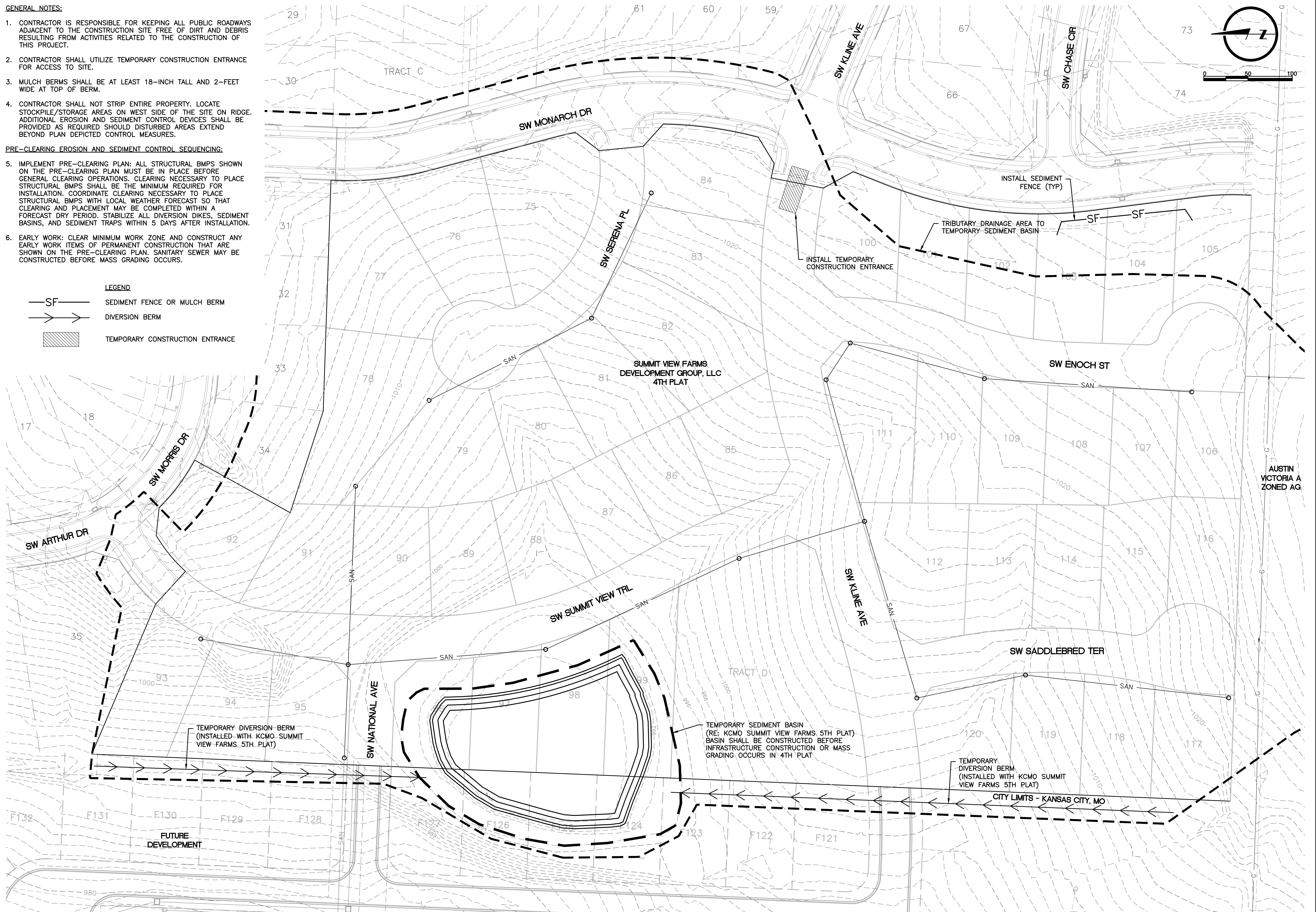
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SHEET
04 of 30

1. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL PUBLIC ROADWAYS ADJACENT TO THE CONSTRUCTION SITE FREE OF DIRT AND DEBRIS RESULTING FROM ACTIVITIES RELATED TO THE CONSTRUCTION OF THIS PROJECT.
2. CONTRACTOR SHALL UTILIZE TEMPORARY CONSTRUCTION ENTRANCE FOR ACCESS TO SITE.
3. MULCH BERMS SHALL BE AT LEAST 18-INCH TALL AND 2-FEET WIDE AT TOP OF BERM.
4. CONTRACTOR SHALL NOT STRIP ENTIRE PROPERTY. LOCATE STOCKPILE/STORAGE AREAS ON WEST SIDE OF THE SITE ON RIDGE. ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PROVIDED AS REQUIRED SHOULD DISTURBED AREAS EXTEND BEYOND PLAN DEPICTED CONTROL MEASURES.

5. IMPLEMENT PRE-CLEARING PLAN: ALL STRUCTURAL BMPs SHOWN ON THE PRE-CLEARING PLAN MUST BE IN PLACE BEFORE GENERAL CLEARING OPERATIONS. CLEARING NECESSARY TO PLACE STRUCTURAL BMPs SHALL BE THE MINIMUM REQUIRED FOR INSTALLATION. COORDINATE CLEARING NECESSARY TO PLACE STRUCTURAL BMPs WITH LOCAL WEATHER FORECAST SO THAT CLEARING AND PLACEMENT MAY BE COMPLETED WITHIN A FORECAST DRY PERIOD. STABILIZE ALL DIVERSION DIKES, SEDIMENT BASINS, AND SEDIMENT TRAPS WITHIN 5 DAYS AFTER INSTALLATION.
6. EARLY WORK: CLEAR MINIMUM WORK ZONE AND CONSTRUCT ANY EARLY WORK ITEMS OF PERMANENT CONSTRUCTION THAT ARE SHOWN ON THE PRE-CLEARING PLAN. SANITARY SEWER MAY BE CONSTRUCTED BEFORE MASS GRADING OCCURS.

	SEDIMENT FENCE OR MULCH BERM
	DIVERSION BERM
	TEMPORARY CONSTRUCTION ENTRANCE



**LAMP
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SUMMIT VIEW FARMS 4TH FLAT

LEE S SUMMI, MISSOURI

**MASS GRADING, EROSION CONTROL,
PAVING AND STORM SEWER PLANS
PRE-CLEARING
EROSION AND SEDIMENT CONTROL PLAN**

EET

GENERAL NOTES:

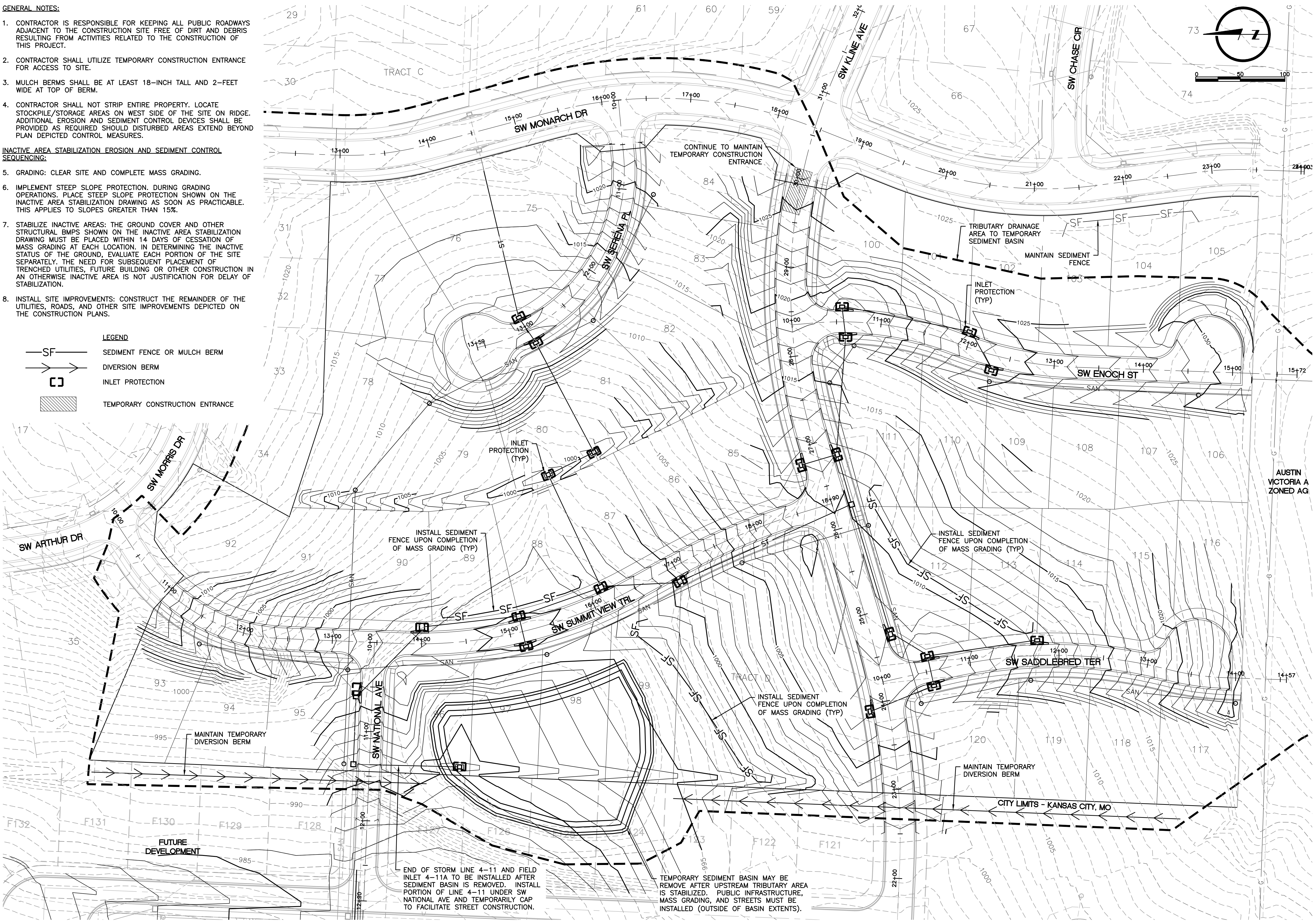
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4. CONTRACTOR SHALL NOT STRIP ENTIRE PROPERTY. LOCATE STOCKPILE/STORAGE AREAS ON WEST SIDE OF THE SITE ON RIDGE. ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PROVIDED AS REQUIRED SHOULD DISTURBED AREAS EXTEND BEYOND PLAN DEPICTED CONTROL MEASURES.

INACTIVE AREA STABILIZATION EROSION AND SEDIMENT CONTROL SEQUENCING:

5. GRADING: CLEAR SITE AND COMPLETE MASS GRADING.
6. IMPLEMENT STEEP SLOPE PROTECTION. DURING GRADING OPERATIONS, PLACE STEEP SLOPE PROTECTION SHOWN ON THE INACTIVE AREA STABILIZATION DRAWING AS SOON AS PRACTICABLE. THIS APPLIES TO SLOPES GREATER THAN 15%.
7. STABILIZE INACTIVE AREAS: THE GROUND COVER AND OTHER STRUCTURAL BMPs SHOWN ON THE INACTIVE AREA STABILIZATION DRAWING MUST BE PLACED WITHIN 14 DAYS OF CESSATION OF MASS GRADING AT EACH LOCATION. IN DETERMINING THE INACTIVE STATUS OF THE GROUND, EVALUATE EACH PORTION OF THE SITE SEPARATELY. THE NEED FOR SUBSEQUENT PLACEMENT OF TRENCHED UTILITIES, FUTURE BUILDING OR OTHER CONSTRUCTION IN AN OTHERWISE INACTIVE AREA IS NOT JUSTIFICATION FOR DELAY OF STABILIZATION.
8. INSTALL SITE IMPROVEMENTS: CONSTRUCT THE REMAINDER OF THE UTILITIES, ROADS, AND OTHER SITE IMPROVEMENTS DEPICTED ON THE CONSTRUCTION PLANS.

LEGEND

- SF— SEDIMENT FENCE OR MULCH BERM
—>— DIVERSION BERM
[] INLET PROTECTION
[] TEMPORARY CONSTRUCTION ENTRANCE



LAMP RYNEARSON
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SUMMIT VIEW FARMS 4TH PLAT

LEE'S SUMMIT, MISSOURI

MASS GRADING, EROSION CONTROL,
PAVING AND STORM SEWER PLANS
INACTIVE AREA
EROSION AND SEDIMENT CONTROL PLAN

DESIGNER / DRAFTER
MDM/AJM
DATE
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SHEET
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GENERAL NOTES:

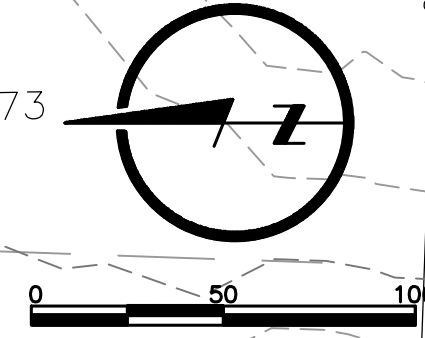
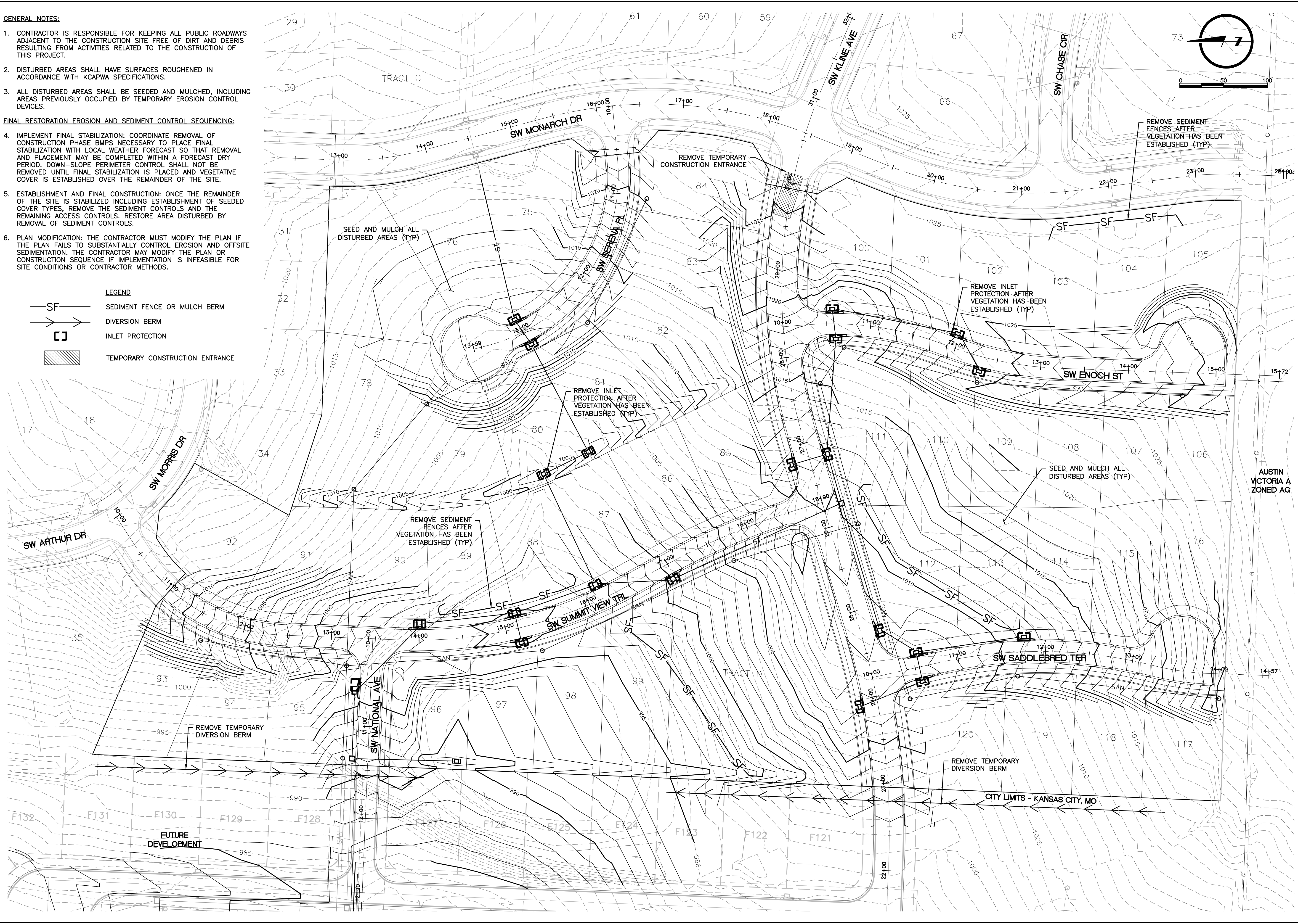
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2. DISTURBED AREAS SHALL HAVE SURFACES ROUGHENED IN ACCORDANCE WITH KCAPWA SPECIFICATIONS.
3. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED, INCLUDING AREAS PREVIOUSLY OCCUPIED BY TEMPORARY EROSION CONTROL DEVICES.

FINAL RESTORATION EROSION AND SEDIMENT CONTROL SEQUENCING:

4. IMPLEMENT FINAL STABILIZATION: COORDINATE REMOVAL OF CONSTRUCTION PHASE BMPs NECESSARY TO PLACE FINAL STABILIZATION WITH LOCAL WEATHER FORECAST SO THAT REMOVAL AND PLACEMENT MAY BE COMPLETED WITHIN A FORECAST DRY PERIOD. DOWN-SLOPE PERIMETER CONTROL SHALL NOT BE REMOVED UNTIL FINAL STABILIZATION IS PLACED AND VEGETATIVE COVER IS ESTABLISHED OVER THE REMAINDER OF THE SITE.
5. ESTABLISHMENT AND FINAL CONSTRUCTION: ONCE THE REMAINDER OF THE SITE IS STABILIZED INCLUDING ESTABLISHMENT OF SEEDED COVER TYPES, REMOVE THE SEDIMENT CONTROLS AND THE REMAINING ACCESS CONTROLS. RESTORE AREA DISTURBED BY REMOVAL OF SEDIMENT CONTROLS.
6. PLAN MODIFICATION: THE CONTRACTOR MUST MODIFY THE PLAN IF THE PLAN FAILS TO SUBSTANTIALLY CONTROL EROSION AND OFFSITE SEDIMENTATION. THE CONTRACTOR MAY MODIFY THE PLAN OR CONSTRUCTION SEQUENCE IF IMPLEMENTATION IS INFEASIBLE FOR SITE CONDITIONS OR CONTRACTOR METHODS.

LEGEND

- SF— SEDIMENT FENCE OR MULCH BERM
—>>> DIVERSION BERM
[] INLET PROTECTION
[] TEMPORARY CONSTRUCTION ENTRANCE



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STATE OF MISSOURI
MARK DANIEL MCGHEE JR.
REGISTERED PROFESSIONAL ENGINEER
NUMBER 2008019568
01/07/2020

MARK DANIEL MCGHEE JR.
PE - 2008019568

REVISIONS
01/07/2020 PER CITY COMMENTS

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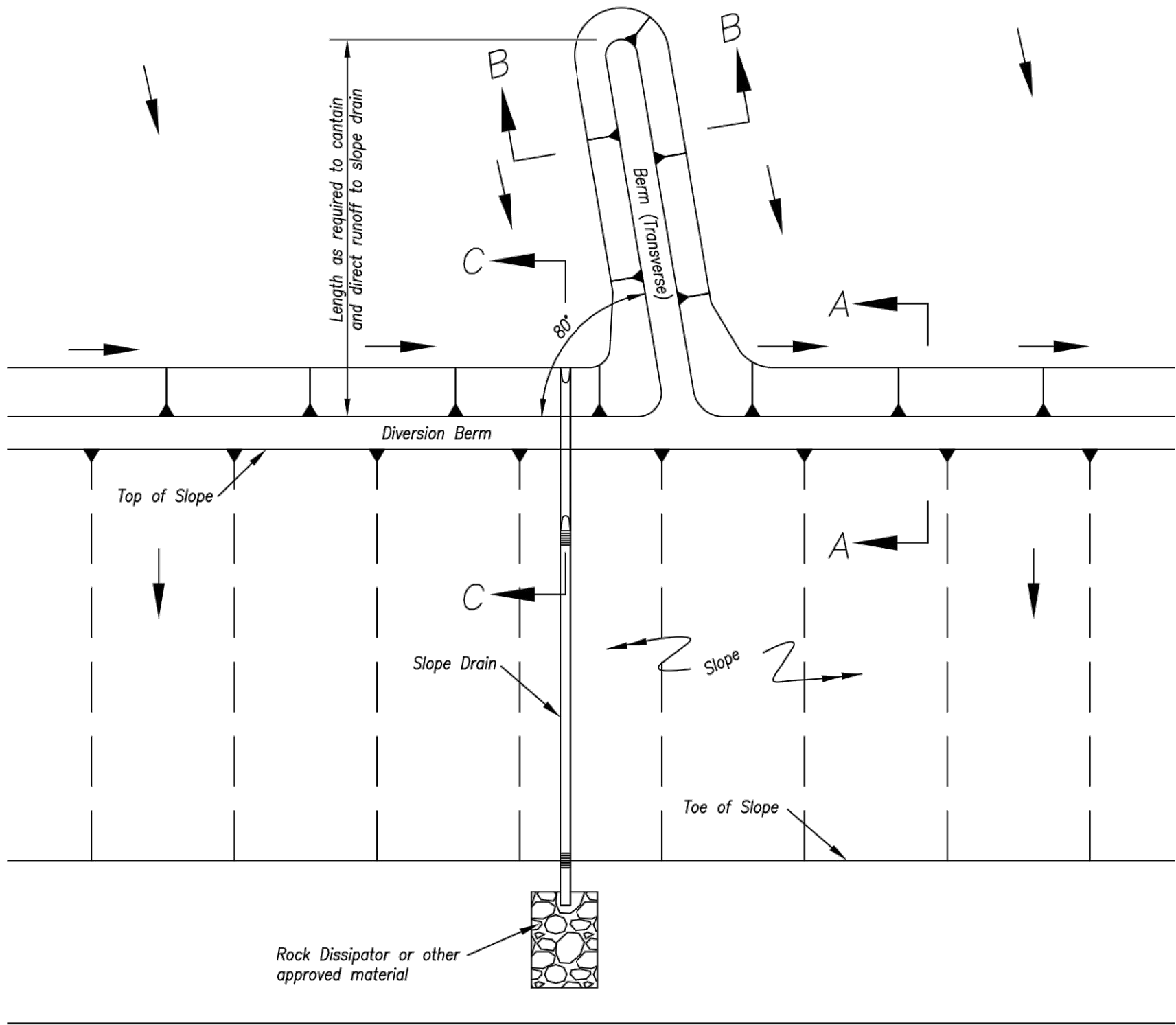
SUMMIT VIEW FARMS 4TH PLAT
LEE'S SUMMIT, MISSOURI

MASS GRADING, EROSION CONTROL,
PAVING AND STORM SEWER PLANS
FINAL RESTORATION
EROSION AND SEDIMENT CONTROL PLAN

DESIGNER / DRAFTER
MDM/AJM
DATE
11/20/2019
PROJECT NUMBER
0318050.02
BOOK AND PAGE

SHEET

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TYPICAL PLAN VIEW OF DIVERSION BERM AND SLOPE DRAIN

Notes for Diversion Berm:

1. Slope drains are optional, but may be required by the engineer if the berm is at the top of a steep slope.
2. Diversion berms must be installed as a first step in the land-disturbing activity and must be functional prior to upslope land disturbance.
3. The berm should be adequately compacted to prevent failure.
4. Temporary or permanent seeding and mulch shall be applied to the berm immediately following its construction.
5. Place the berm so to minimize damages by construction operations and traffic.
6. The berm must discharge to a temporary sediment trap or stabilized area.
7. All trees, brush, stumps, obstructions and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of diversion.
8. The diversion shall be excavated or shaped to line, grade and cross-section as required to meet the criteria specified herein, free of irregularities which will impede flow.
9. Fills shall be compacted as needed to prevent unequal settlement that would cause damage in the completed diversion. Fill shall be composed of soil which is free from excessive organic debris, rocks or other objectionable materials.

Maintenance:

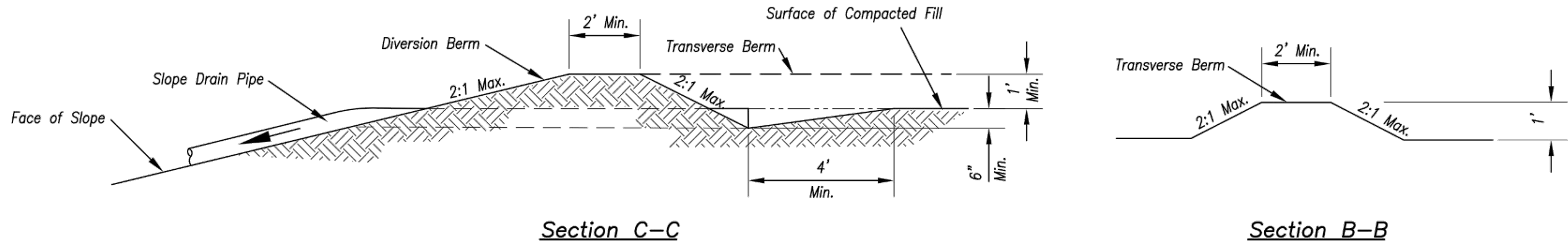
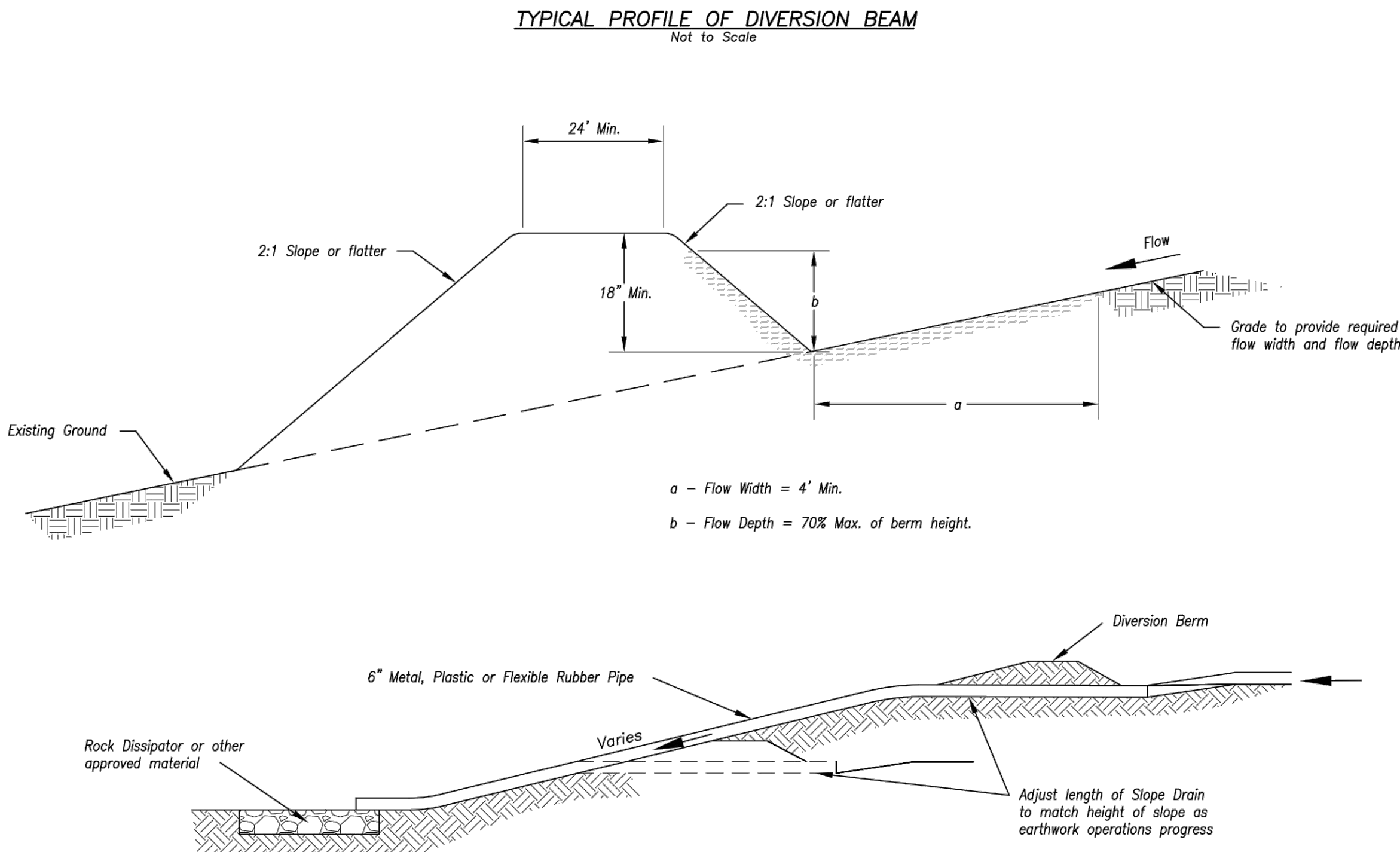
1. Berm shall be reshaped, compacted, and stabilized as necessary to maintain its function.
2. Breaches in the berm shall be repaired immediately.

Notes for Slope Drain:

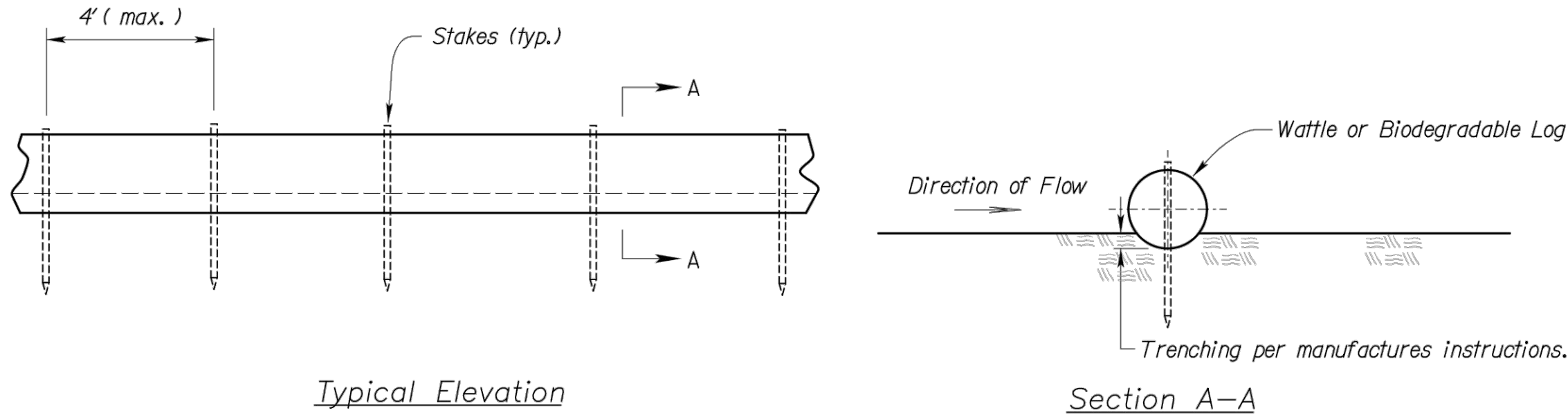
1. Slope Drain and Diversion Berm may be used on either project foreslopes or project backslopes.
2. Discharge of Slope Drains shall be into stabilized ditch or area, or into Sediment Basin.
3. Pipe shall be secured in place as approved by Engineer.

Maintenance:

1. Accumulation of any visible sediment at the inlet and outlet shall be removed promptly.
2. Outlet conditions shall be repaired if scour is observed. Leaking or damaged section of pipe shall be repaired immediately.
3. Barriers directing water to the inlet shall be monitored for continuity and effectiveness.



TYPICAL PROFILE OF DIVERSION BERM WITH SLOPE DRAIN



Notes for Wattles and Biodegradable Log Slope Protection:

1. The Slope barriers shall be placed along contour lines, with a short section turned upgrade at each end of the barrier. The maximum length of the slope barrier shall not exceed 250 feet, and the barrier ends need to be staggered.
2. Install wattles and biodegradable logs per manufacturer's instructions.
3. Spacing of stakes per manufacturer's instructions with 4' max. spacing. Length of stakes shall be a minimum of 2 times the diameter of the log with minimum of 24".

WATTLES AND BIODEGRADABLE LOG

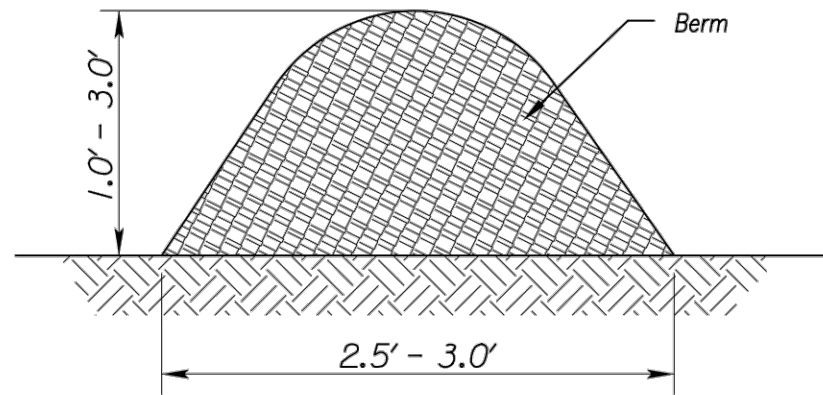


Figure 1
(Perimeter Control)

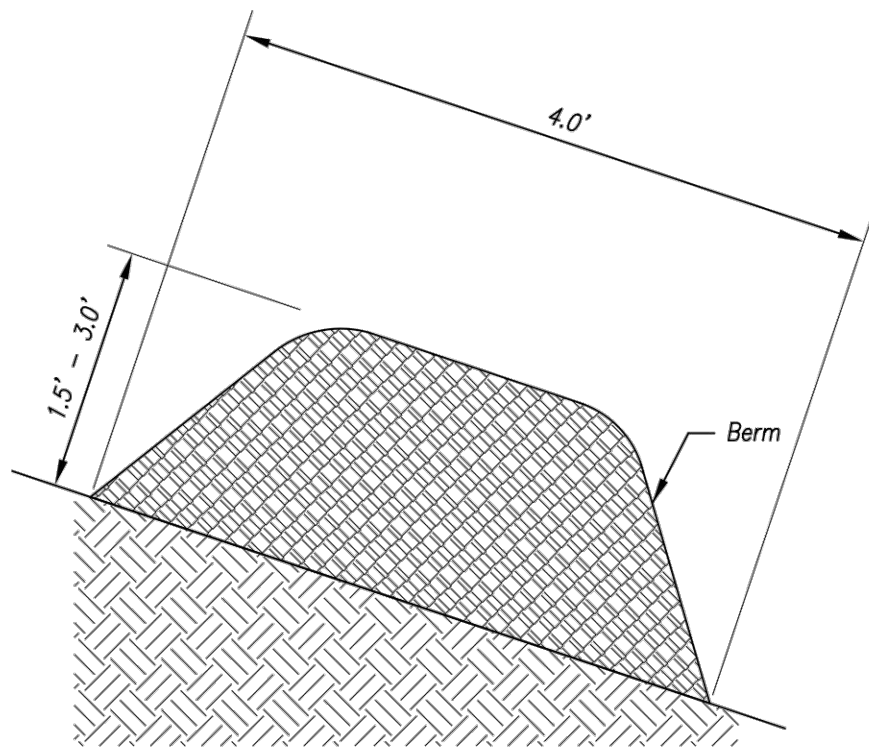


Figure 2
(Steep Slopes)

Notes for Mulch and Compost Filter Beam:

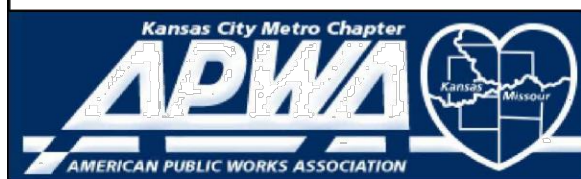
1. The sediment control berm shall be placed uncompacted in a windrow at locations shown on the plans or as directed by the engineer.
2. Parallel to the base of the slope, or around the perimeter of other affected areas, construct a 1 to 3 foot high by 2.5 to 3 foot wide berm (see Figure 1). For maximum water treatment ability or for steep slopes, construct a 1.5 to 3 foot high trapezoidal berm that is a minimum of 4 feet wide at the base (see Figure 2). In extreme conditions, or where specified by the engineer, a second berm shall be constructed at the top of the slope. Engineer will specify berm requirements.
3. If berm is to be left as permanent or part of the natural landscape, the compost berm may be seeded during application for permanent vegetation.
4. Do not use compost or wood mulch berms in any runoff channels or concentrated flow areas.
5. Wood mulch shall consist of tree and shrub debris resulting from clearing and grubbing and shall be ground by the mechanical means such as a chipper, hammermill, tub grinder or other approved method. Mulch sizing varies with a maximum width of 2" and a maximum length of 10".

Maintenance for Mulch and Compost Filter Beam:

1. Berm shall be reshaped and material added as necessary to maintain function and dimensions.
2. Breaches in the berm shall be repaired promptly.

MULCH OR COMPOST FILTER BERMS

AMERICAN PUBLIC WORKS ASSOCIATION



KANSAS CITY
METRO CHAPTER

DIVERSION BERMS AND
SLOPE DRAINS

STANDARD DRAWING
NUMBER ESC-05

ADOPTED:
10/24/2016

WATTLES/BIODEGRADABLE LOG
AND

STANDARD DRAWING
NUMBER ESC-04

ADOPTED:
10/24/2016

MULCH/COMPOST FILTER BERM

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SUMMIT VIEW FARMS 4TH PLAT

LEE'S SUMMIT, MISSOURI

MASS GRADING, EROSION CONTROL,
PAYING AND STORM SEWER PLANS
EROSION AND SEDIMENT
CONTROL DETAILS

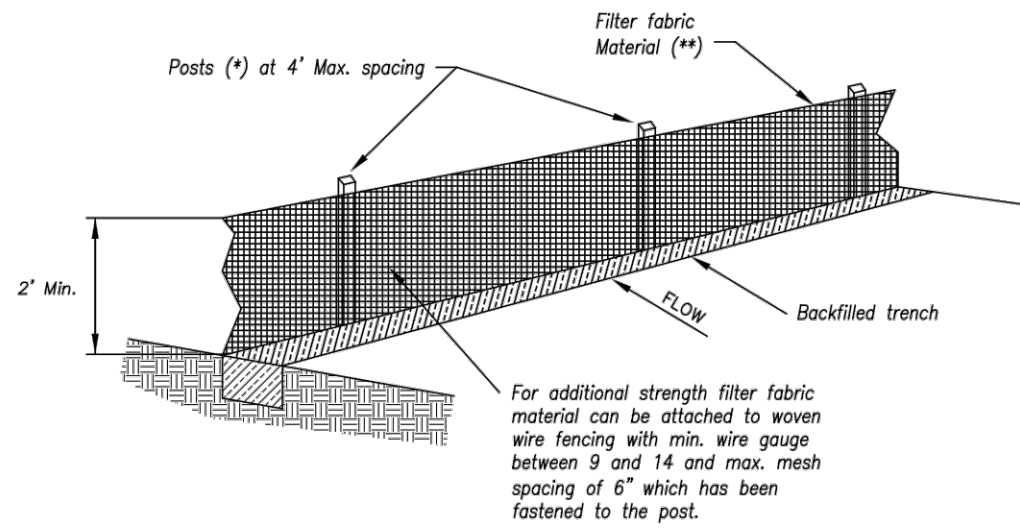
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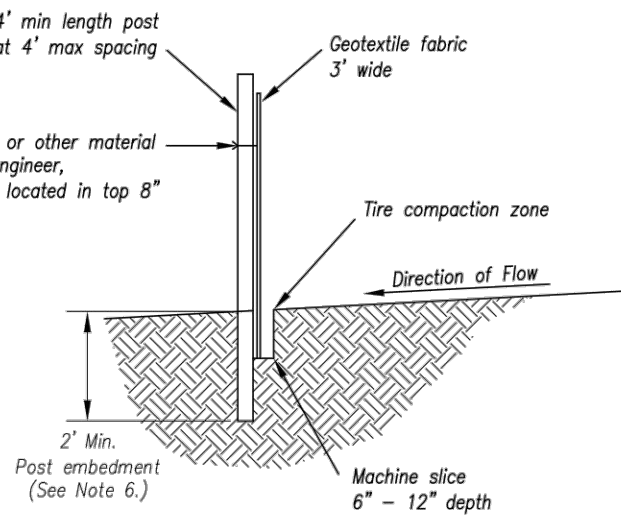
U:\Engineering\0318050 SYDGO Summit View Plans and Paving\DRAWINGS\CONSTRUCTION DRAWINGS\4TH PLAT\JOB-EC-PW-SUM-PLAN-03180502-EC-DET.dwg, 1/6/2020 1:58:01 PM, JAMIE MCQUARRY, LAMP RYNEARSON



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

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

SILT FENCE DETAILS
Not to Scale



Notes:

1. In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
2. Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
3. Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
4. Attach fabric to upstream side of post.
5. Install posts a minimum of 2' into the ground.
6. Trenching will only be allowed for small or difficult installation, where slicing machine cannot be reasonably used.

Maintenance:

1. Remove and dispose of sediment deposits when the deposit approaches 1/2 the height of silt fence.
2. Repair as necessary to maintain function and structure.

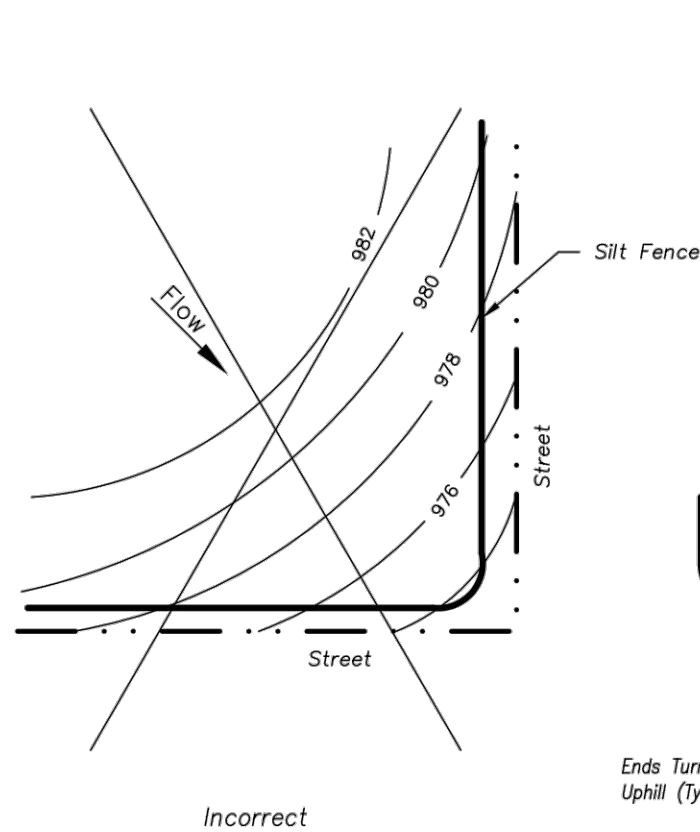
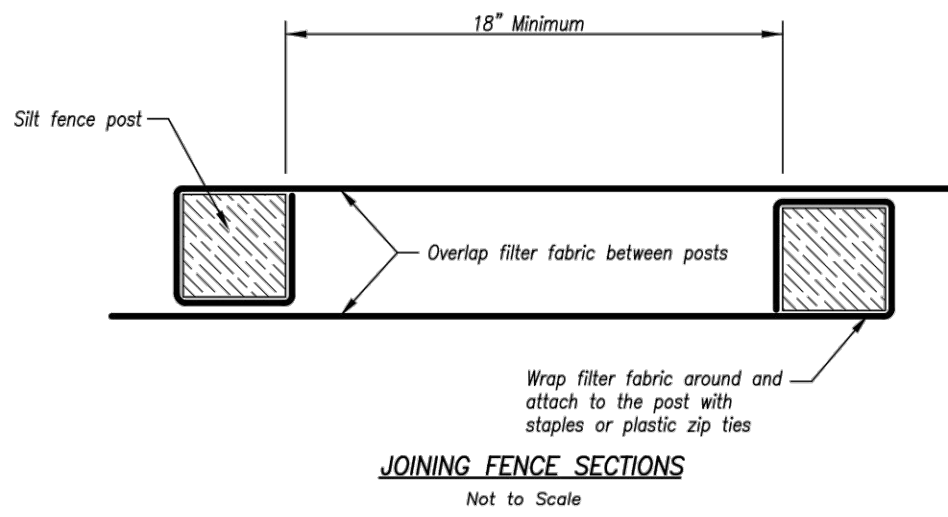
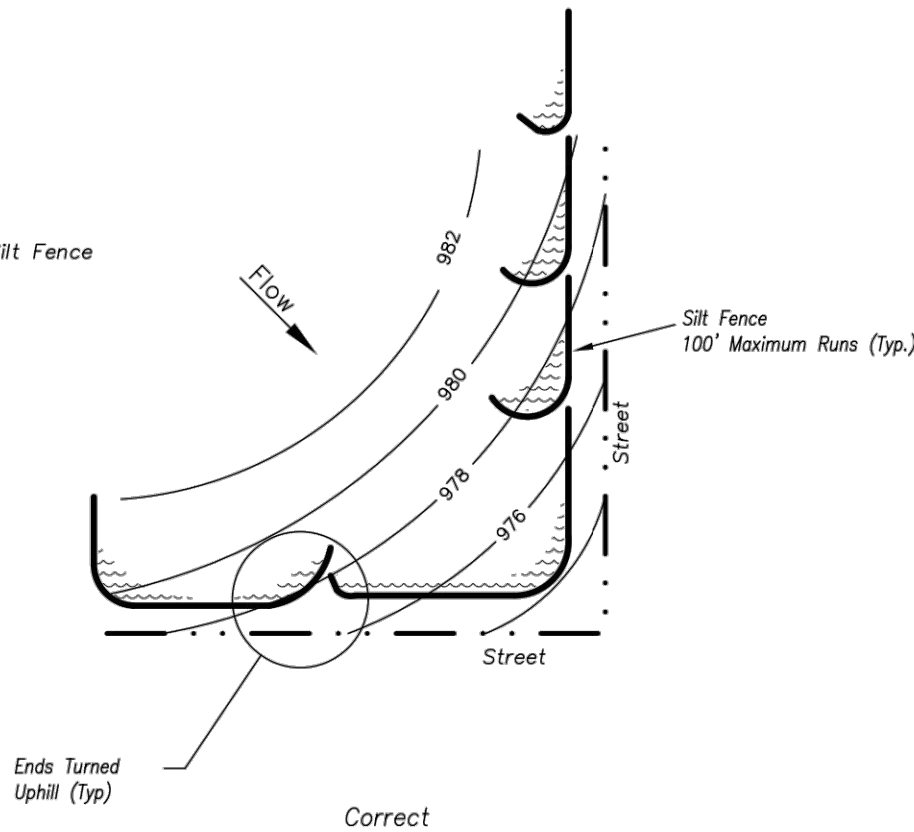
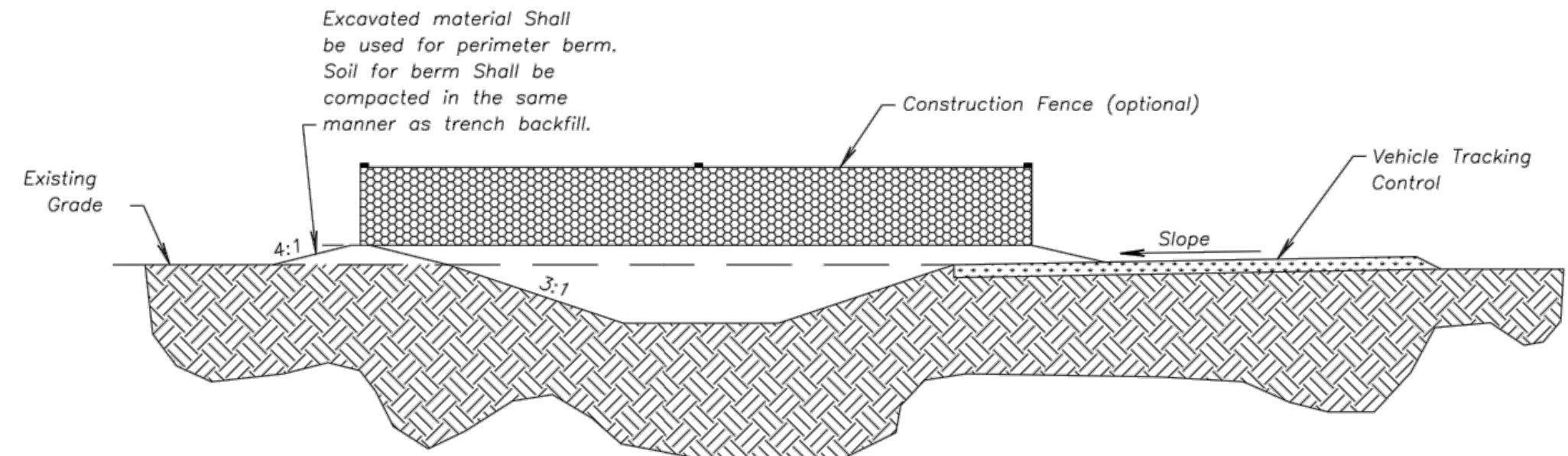
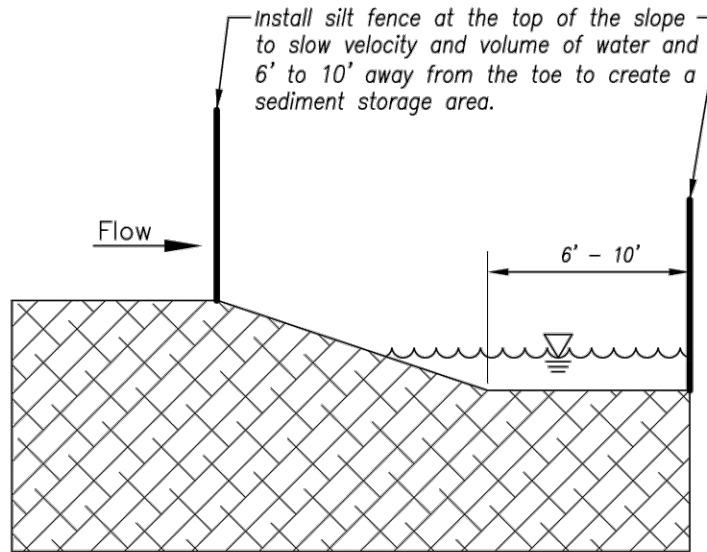


Figure A



SILT FENCE LAYOUT
Not to Scale



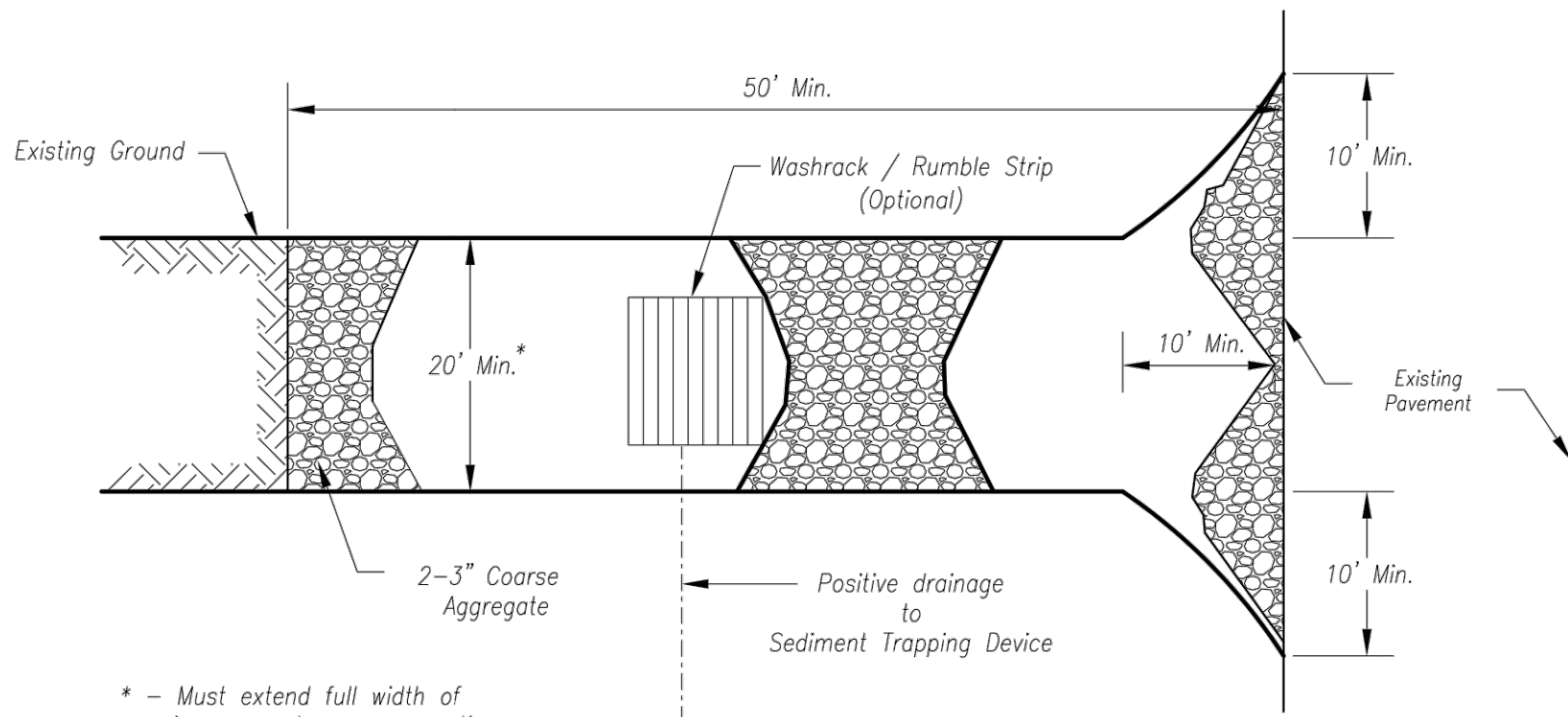
CONCRETE WASHOUT

Notes for Construction Entrance:

1. Avoid locating on steep slopes, at curves on public roads, or downhill of disturbed area.
2. Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
3. If slope towards the public road exceeds 2%, construct a 6- to 8-inch high ridge with 3H:1V side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
4. Install pipe under the entrance if needed to maintain drainage ditches along public roads.
5. Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.
6. Divert all surface runoff and drainage from the entrance to a sediment control device.
7. If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

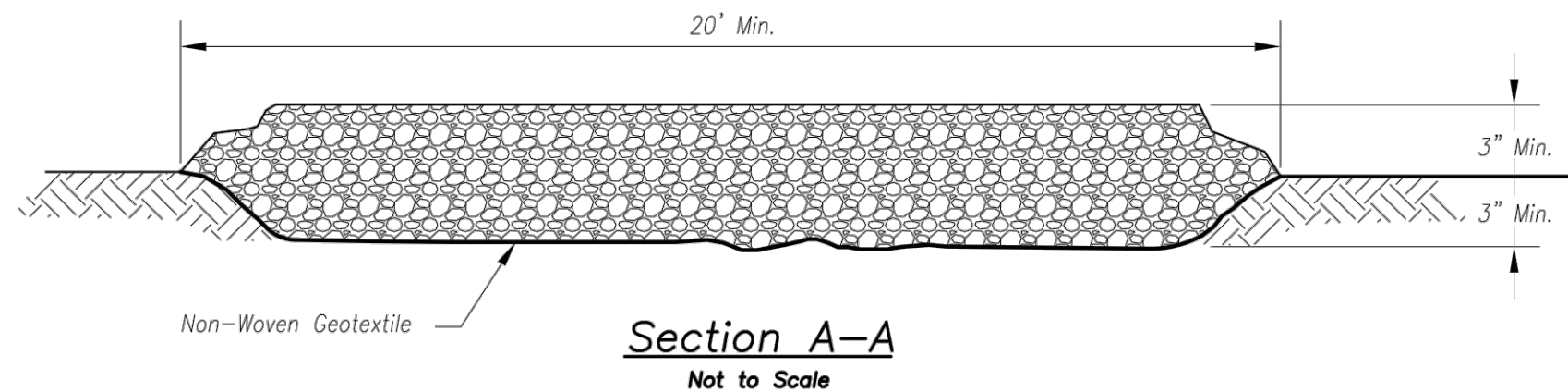
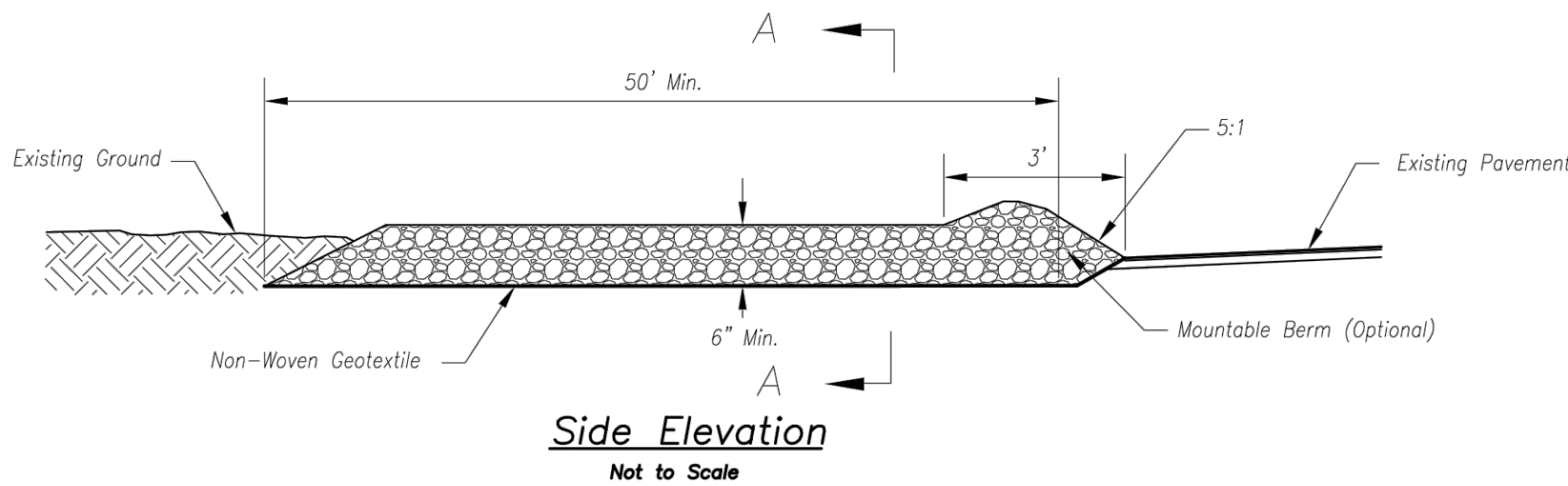
Maintenance for Construction Entrance:

1. Reshape entrance as needed to maintain function and integrity of installation. Top dress with clean aggregate as needed.



* - Must extend full width of ingress and egress operation

Plan View
Not to Scale



CONSTRUCTION ENTRANCE

AMERICAN PUBLIC WORKS ASSOCIATION	
	KANSAS CITY METRO CHAPTER
	STANDARD DRAWING NUMBER ESC-03
ADOPTED: 10/24/2016	
SILT FENCE	
CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT	
STANDARD DRAWING NUMBER ESC-01	
ADOPTED: 10/24/2016	

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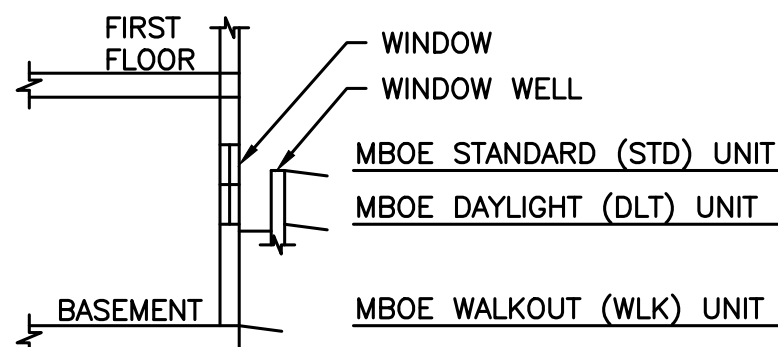
SUMMIT VIEW FARMS 4TH PLAT
LEE'S SUMMIT, MISSOURI

MASS GRADING, EROSION CONTROL,
PAVING AND STORM SEWER PLANS
EROSION AND SEDIMENT
CONTROL DETAILS

DESIGNER / DRAFTER	MDM/AJM
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GENERAL NOTES:

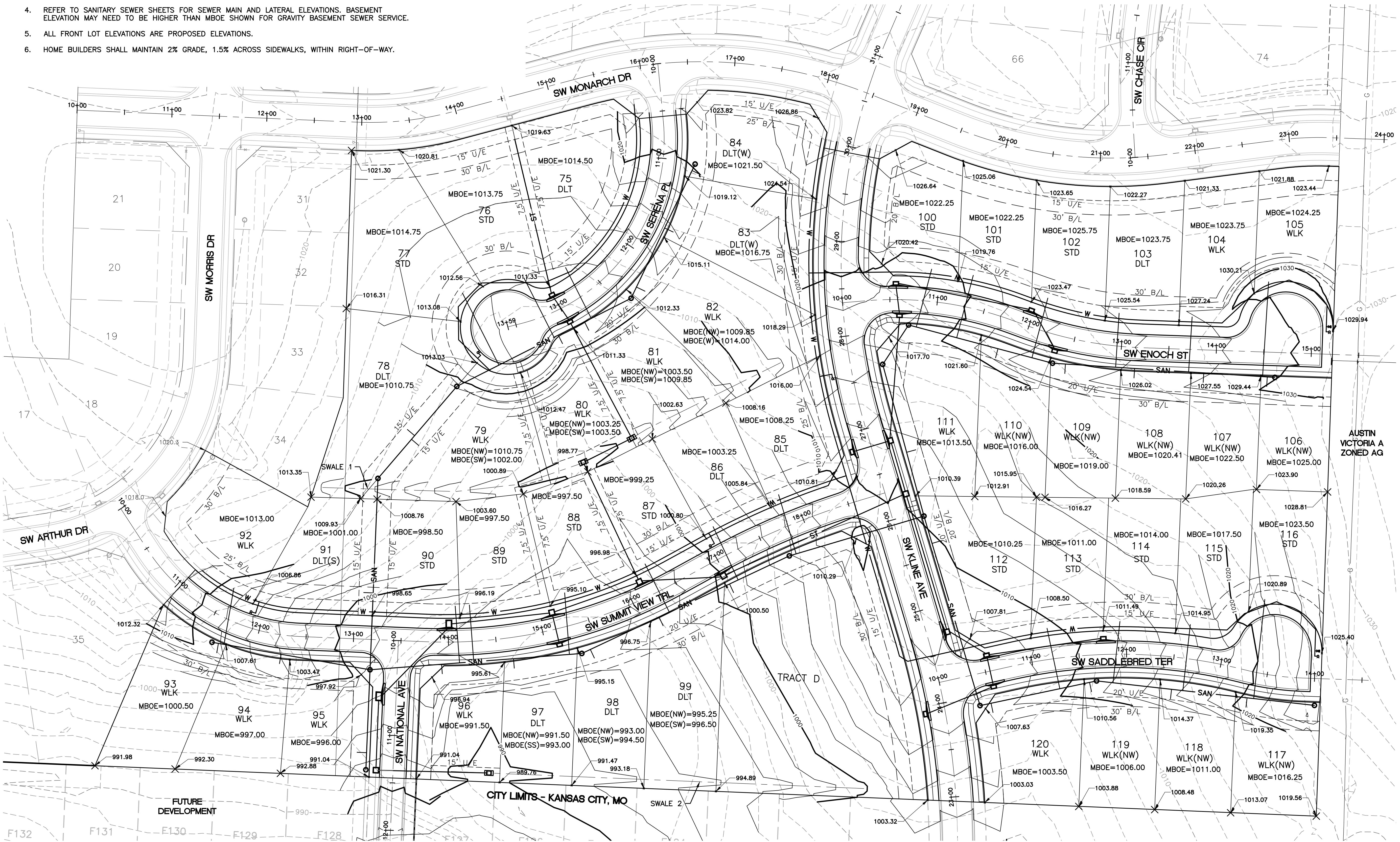
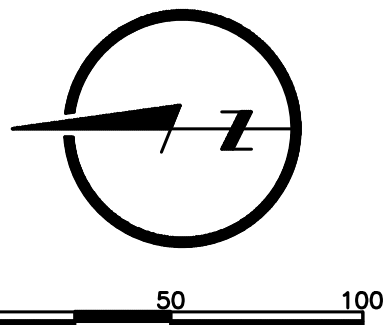
1. MINIMUM BUILDING OPENING ELEVATIONS (MBOE'S) SHOWN REPRESENT THE MINIMUM RECOMMENDED ELEVATIONS THAT WILL PROVIDE ADEQUATE POSITIVE STORM WATER DRAINAGE TO THE LOWEST POINT ON THE LOT FROM THE ANTICIPATED LOW SIDE OF THE BUILDING. THE HOME BUILDER SHALL BE RESPONSIBLE FOR ENSURING ADEQUATE POSITIVE DRAINAGE AWAY FROM ALL BUILDING OPENINGS TO PREVENT LOCALIZED STRUCTURE FLOODING.
2. A DAYLIGHT OR STANDARD UNIT MAY BE CONSTRUCTED ON WALKOUT LOT, AND A STANDARD UNIT MAY BE CONSTRUCTED ON A DAYLIGHT LOT.
3. A DAYLIGHT UNIT IS DEFINED AS A UNIT HAVING A WINDOW ON THE BASEMENT LEVEL WITH AT LEAST 5'-4" OF CLEARANCE FROM THE FINISHED FIRST FLOOR ELEVATION TO THE BOTTOM OF THE WINDOW. CLEARANCES LESS THAN 5'-4" ARE DEFINED AS STANDARD UNITS, WHETHER OR NOT A WINDOW WELL IS REQUIRED.
4. REFER TO SANITARY SEWER SHEETS FOR SEWER MAIN AND LATERAL ELEVATIONS. BASEMENT ELEVATION MAY NEED TO BE HIGHER THAN MBOE SHOWN FOR GRAVITY BASEMENT SEWER SERVICE.
5. ALL FRONT LOT ELEVATIONS ARE PROPOSED ELEVATIONS.
6. HOME BUILDERS SHALL MAINTAIN 2% GRADE, 1.5% ACROSS SIDEWALKS, WITHIN RIGHT-OF-WAY.



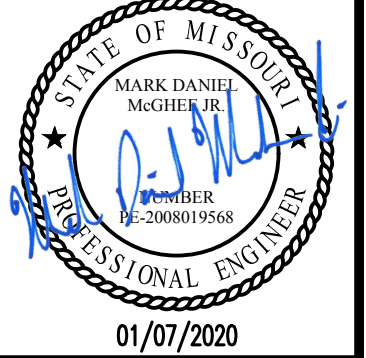
TYPICAL UNIT SECTION
NOT TO SCALE

SEE SHEET 13 FOR SWALE PLAN
AND PROFILE INFORMATION.

AS-GRADED PLOT PLANS ARE REQUIRED ON FOLLOWING LOTS	
LOT	ENGINEERED FEATURE
78	SWALE
79	SWALE
80	SWALE
81	SWALE
82	SWALE
96	SWALE
97	SWALE
98	SWALE
99	SWALE



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MO CERT. NO. 2013011903



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SUMMIT VIEW FARMS 4TH PLAT
LEE'S SUMMIT, MISSOURI

MASS GRADING, EROSION CONTROL,
PAVING AND STORM SEWER PLANS
MASTER DRAINAGE PLAN

DESIGNER / DRAFTER
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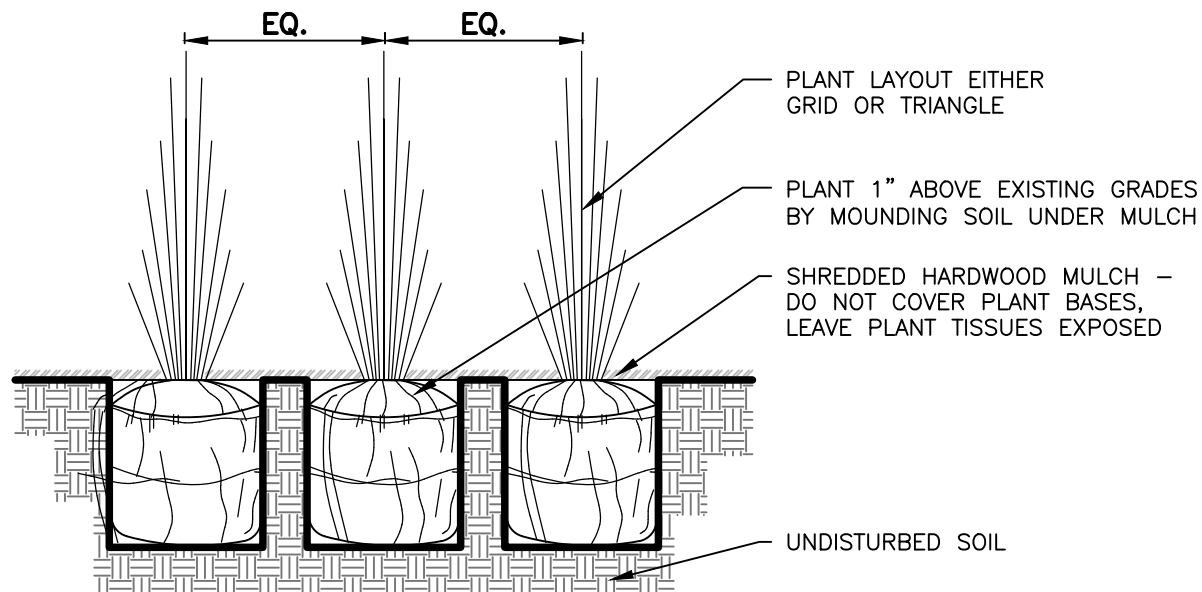
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LOT	LOT CORNER	SWALE PROFILE GRADE	1% WATER SURFACE ELEVATION
78	SOUTH	1008.40	1008.53
79	NORTH	1008.40	1008.53
79	SOUTH	999.21	999.44
80	NORTH	999.21	999.44
80	SOUTH	1000.77	1000.85
81	NORTH	1000.77	1000.85
81	SOUTH	1007.69	1007.84
82	NORTH	1007.69	1007.84
82	END	1011.68	1011.83

LOT	LOT CORNER	SWALE PROFILE GRADE	1% WATER SURFACE ELEVATION
96	START	989.40	989.48
96	SOUTH	988.76	989.10
97	NORTH	988.76	989.10
97	SOUTH	990.47	990.81
98	NORTH	990.47	990.81
98	SOUTH	992.18	992.44
99	NORTH	992.18	992.44
99	SOUTH	993.89	994.15
TRACT D	NORTH	993.89	994.15
TRACT D	END	999.29	999.41

SWALE DESIGN TABLE (1% STORM)													
SWALE SECTION DATA					SWALE FLOW DATA								
SWALE	STATION	SWALE SLOPE (FT/FT)	LEFT SIDE SLOPE (H:V)	RIGHT SIDE SLOPE (H:V)	BOTTOM WIDTH (FT)	FLOW (CFS)	DEPTH OF FLOW (FT)	FLOW AREA (SF)	VELOCITY (FPS)	WETTED PERIMETER (FT)	TOP WIDTH (FT)	SPECIFIC ENERGY (FT)	SHEAR STRESS (LBS/SF)
1	2+40.14	0.0635	5:1	5:1	5.00	2.22	0.13	0.74	2.99	6.34	6.31	0.27	0.52
1	3+09.73	0.039	5:1	5:1	5.00	2.85	0.17	1.03	2.78	6.78	6.75	0.29	0.41
1	3+79.51 (N)	0.0225	5:1	5:1	5.00	3.50	0.23	1.41	2.48	7.34	7.30	0.33	0.32
1	3+79.51 (S)	0.0445	5:1	5:1	5.00	0.85	0.08	0.45	1.89	5.85	5.83	0.14	0.22
1	4+55.09	0.064	5:1	5:1	8.00	4.25	0.15	1.29	3.29	9.51	9.48	0.32	0.60
2	1+40.00	0.0225	5:1	5:1	5.00	7.09	0.34	2.29	3.10	8.48	8.41	0.49	0.48
2	3+00.00	0.0225	5:1	5:1	5.00	4.47	0.26	1.67	2.68	7.69	7.64	0.38	0.37
2	4+45.00	0.0435	5:1	5:1	5.00	1.59	0.12	0.68	2.35	6.23	6.21	0.21	0.33

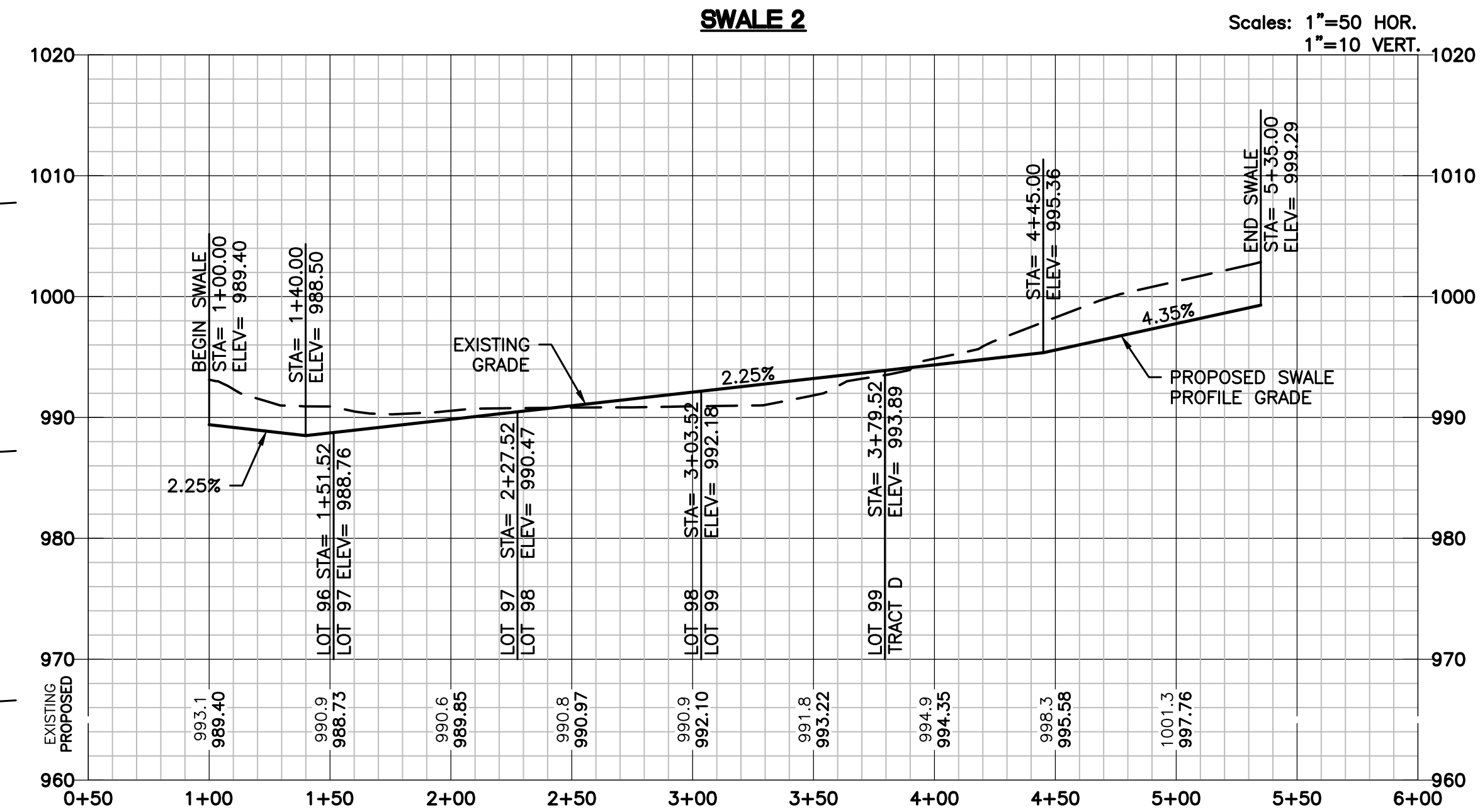
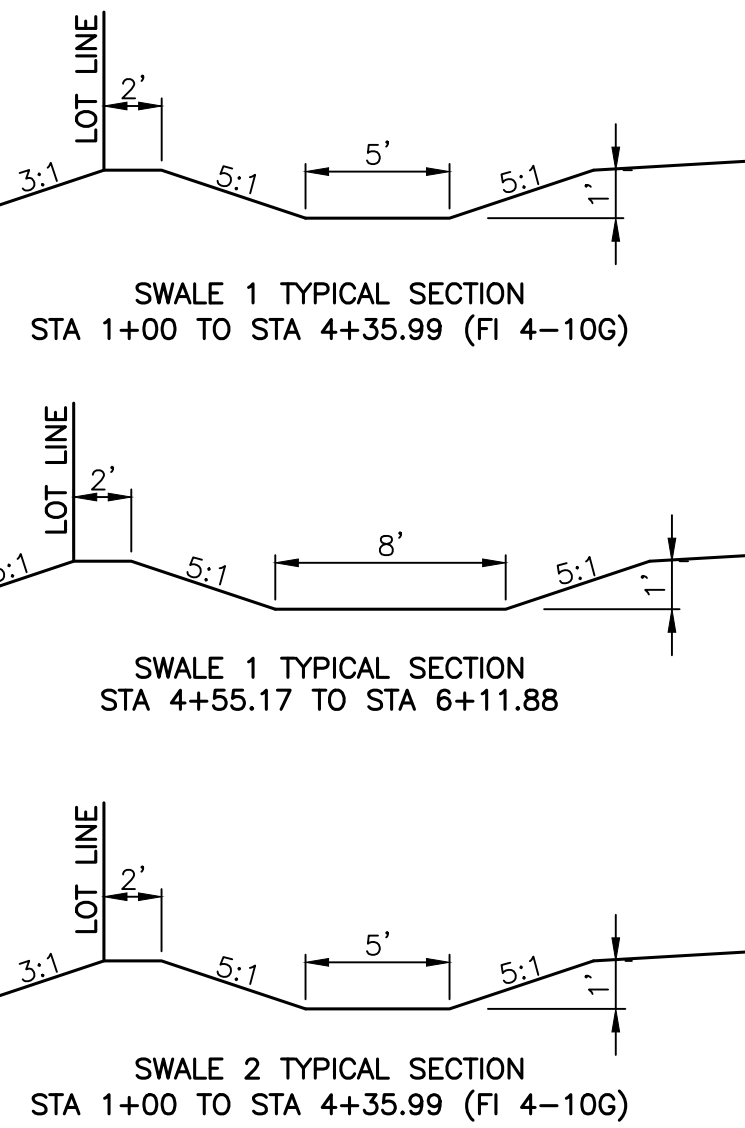
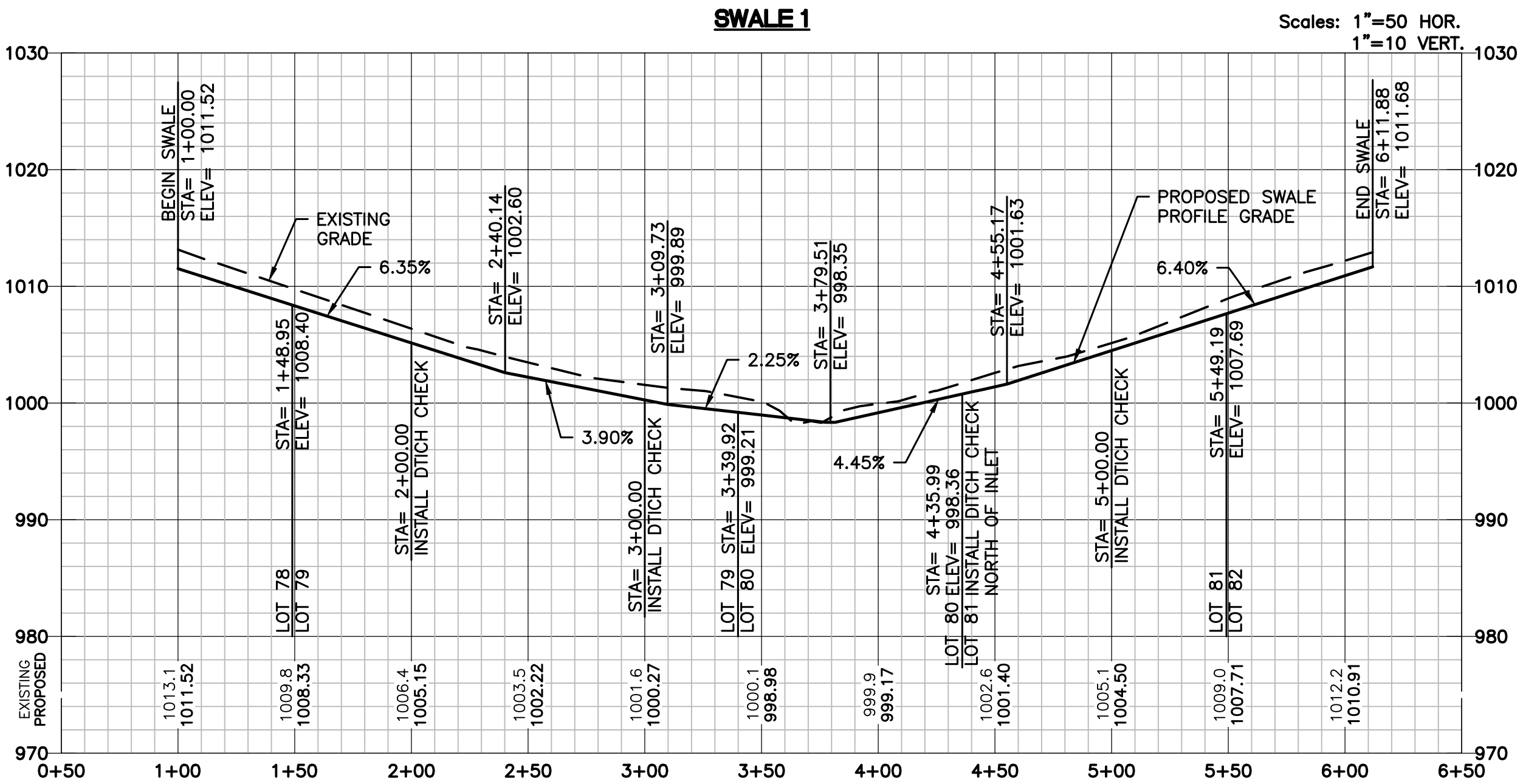
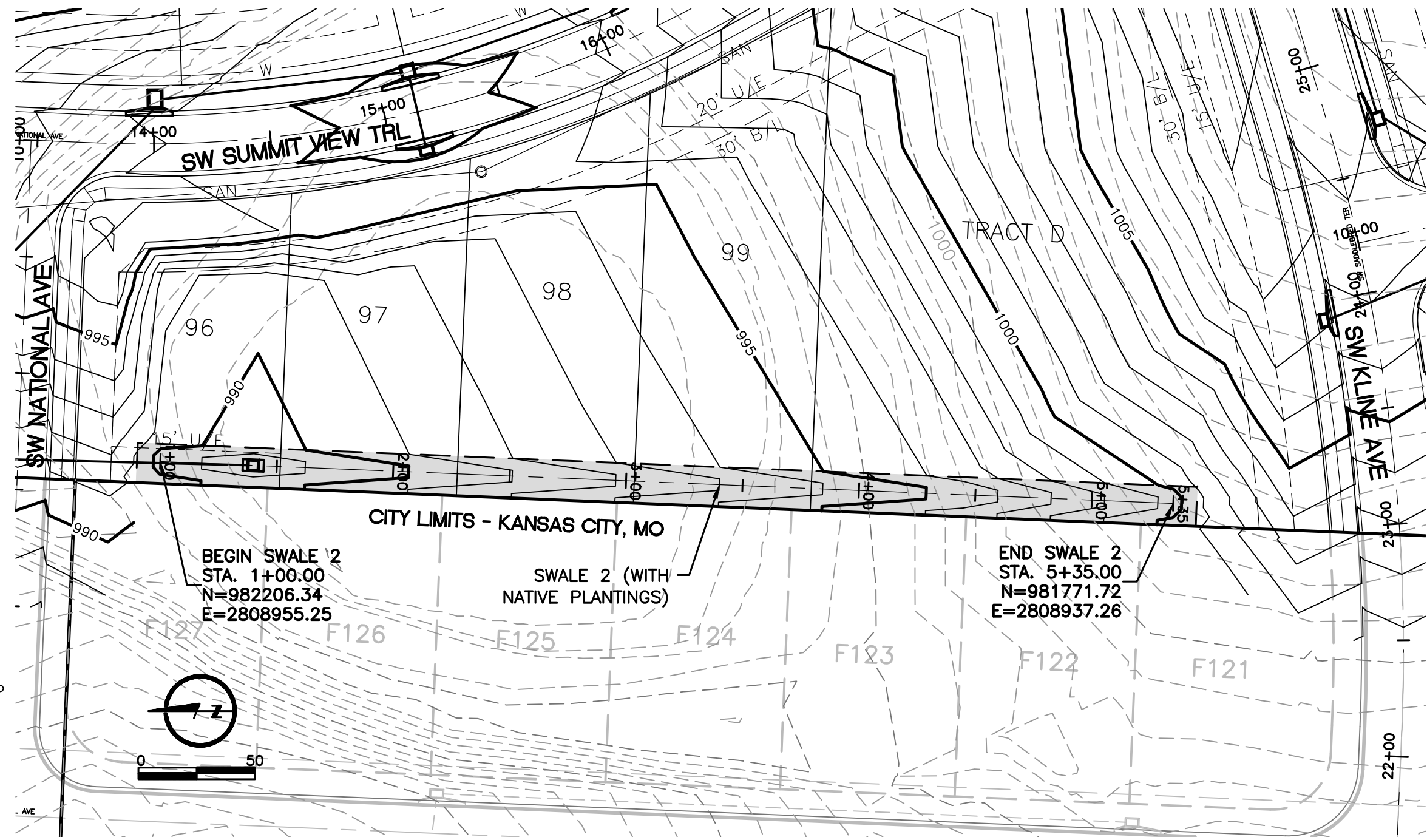
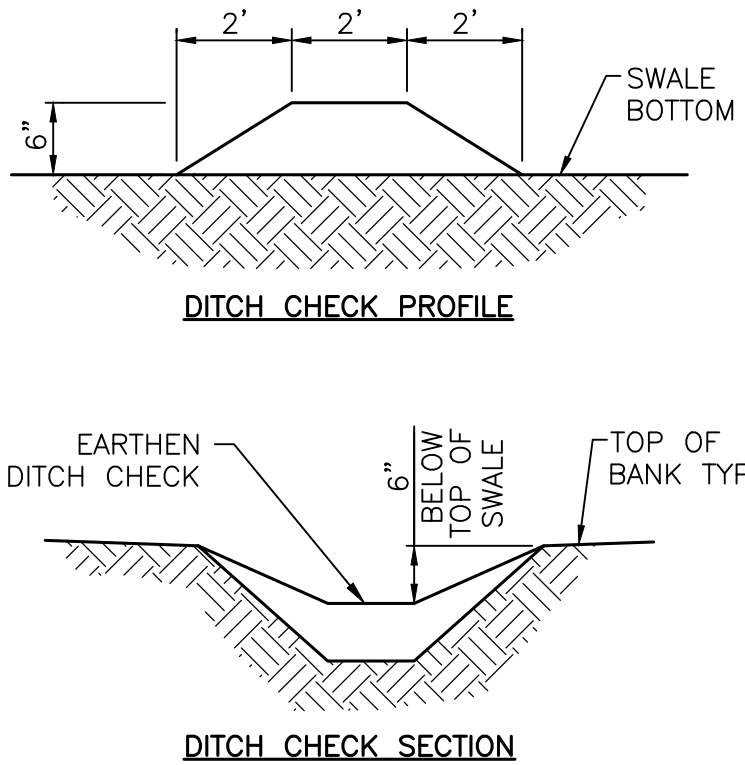
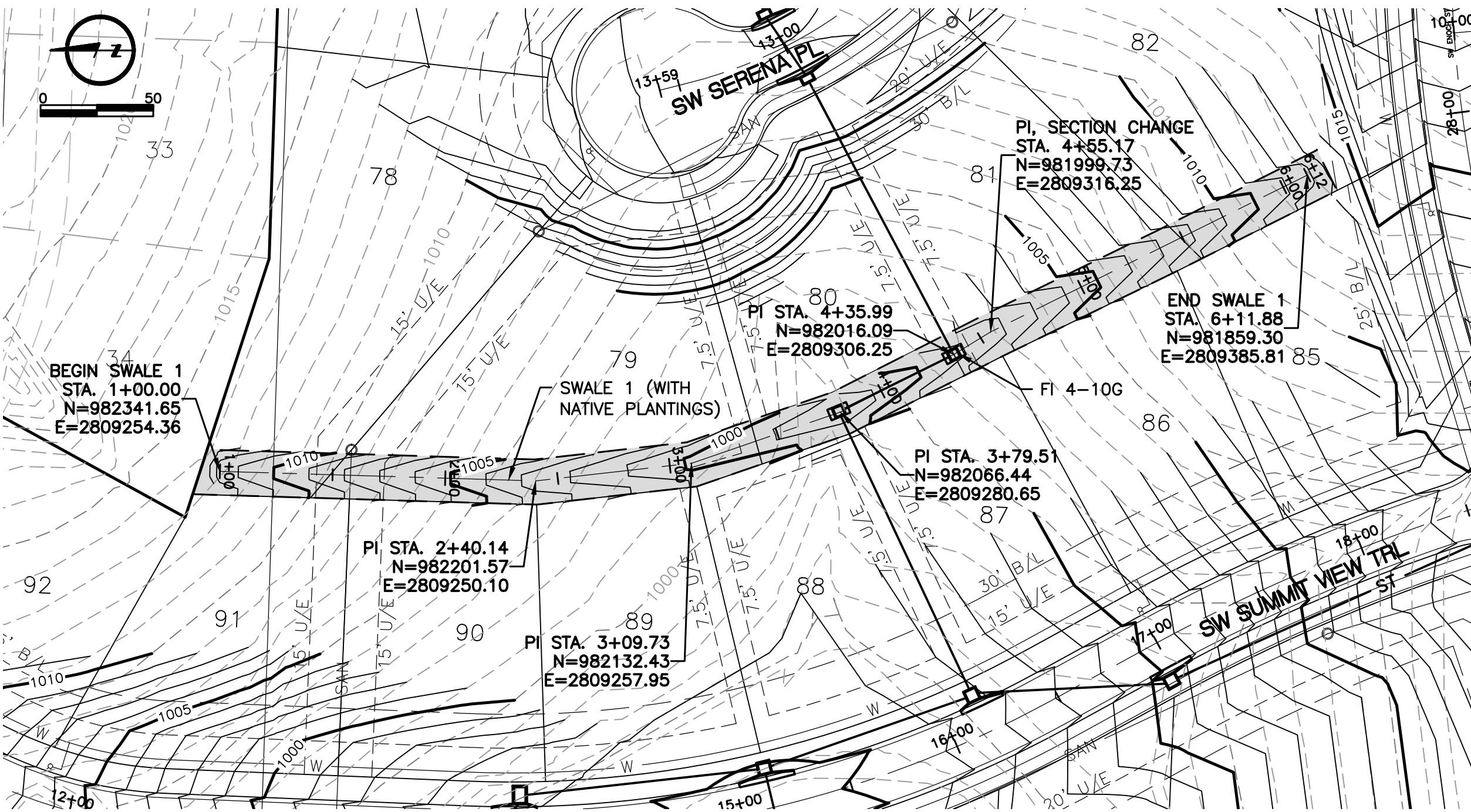


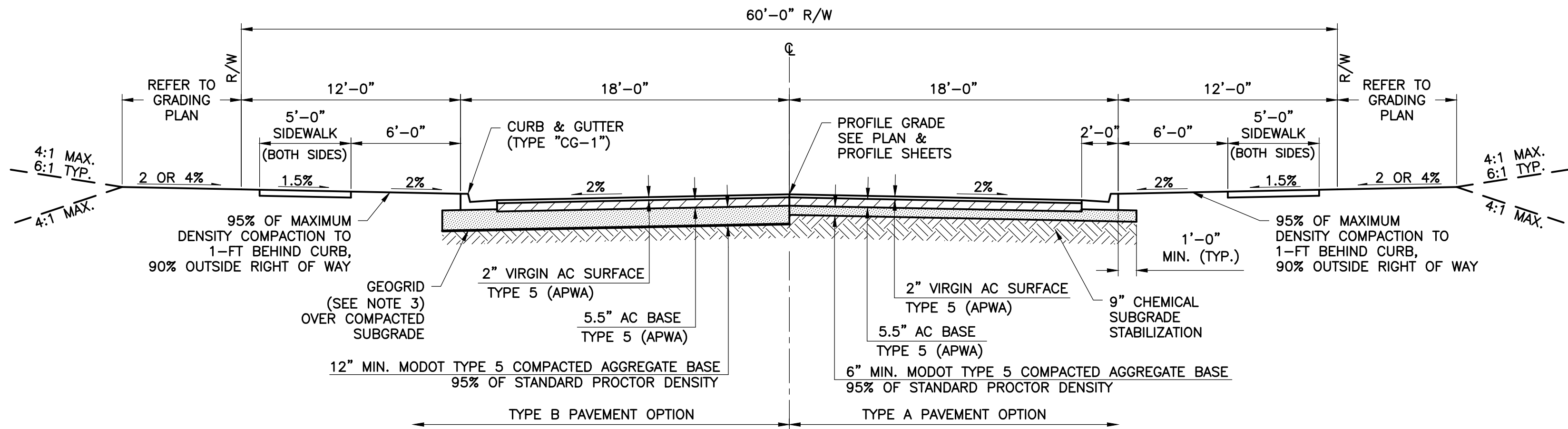
TYPICAL PERENNIAL AND ORNAMENTAL
GRASS PLANTING DETAIL
SCALE: NOT TO SCALE

PLANT SCHEDULE					
NATIVE PLANTINGS					
BOTANICAL NAME	COMMON NAME	PLANTING SIZE	SPACING	HEIGHT	WIDTH
CAREX VULPINOIDEA	BROWN FOX SEDGE	DEEP CELL PLUG	18" O.C.	2-3	1-1.5
PANICUM VIRGATUM	SWITCH GRASS	DEEP CELL PLUG	24" O.C.	4-5	2-3
CAREX BROMOIDES	BROME HUMMOCK SEDGE	DEEP CELL PLUG	18" O.C.	0.75-1	1.5-2
ASCLEPIAS INCARNATA	SWAMP MILKWEED	DEEP CELL PLUG	24" O.C.	3-4	2-3

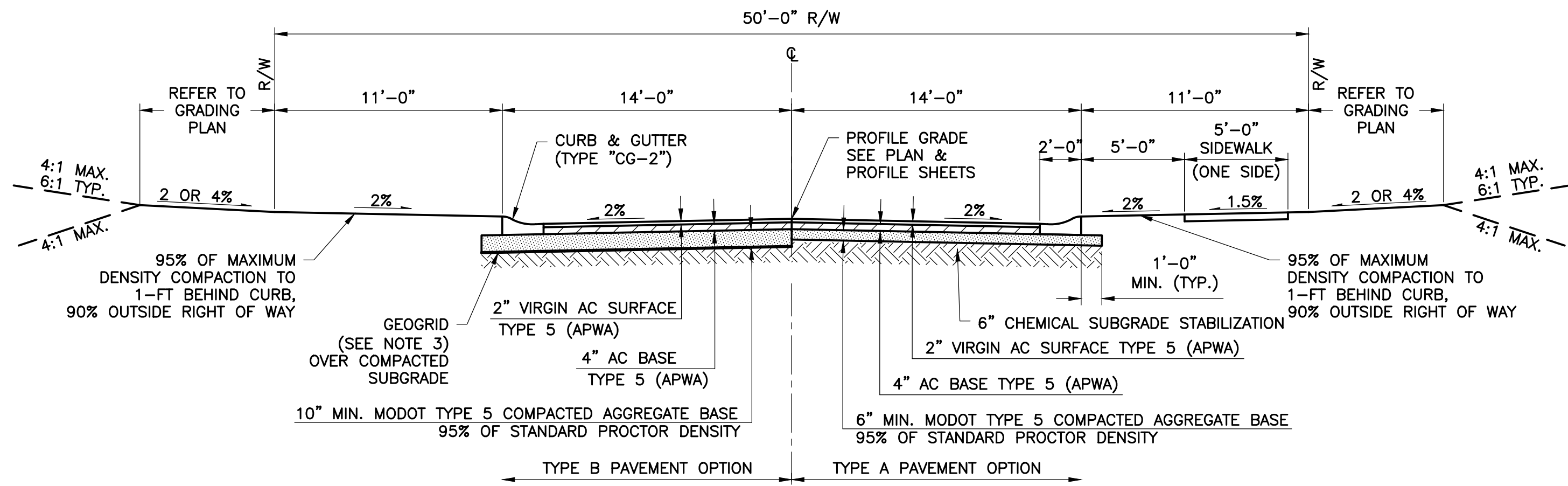
PLANTING NOTES

- EXISTING AND IMPORTED SOIL FOR PLANTING AREAS SHALL BE FREE FROM CHEMICALS, CONSTRUCTION DEBRIS AND TRASH, ROCKS AND OTHER MATERIAL LARGER THAN ONE INCH IN DIAMETER.
- ALL NATIVE PLANTING AREAS SHALL BE SCARIFIED AND RECEIVE CONDITIONED SOILS. COMPLETELY BREAK-UP SOIL TO A MINIMUM DEPTH OF 12".
- APPLY GRANULAR PRE-EMERGENT WEED CONTROL TO AREAS TO RECEIVE AND NON-LAWN ORNAMENTAL PLANTING AFTER INCORPORATING SOIL AMENDMENTS.
- ALL PLANTED AREAS TO BE AMENDED PER AN AGRICULTURAL/SOIL SUITABILITY TEST. ESTIMATE SPREADING SOIL AMENDMENT AT THE RATE OF 6 CUBIC YARDS PER 1,000 SQUARE FEET. TILL INTO THE TOP OF SOIL TO A MINIMUM DEPTH OF 6". RAKE TO A SMOOTH, EVEN SURFACE PER THE GRADING PLANS.

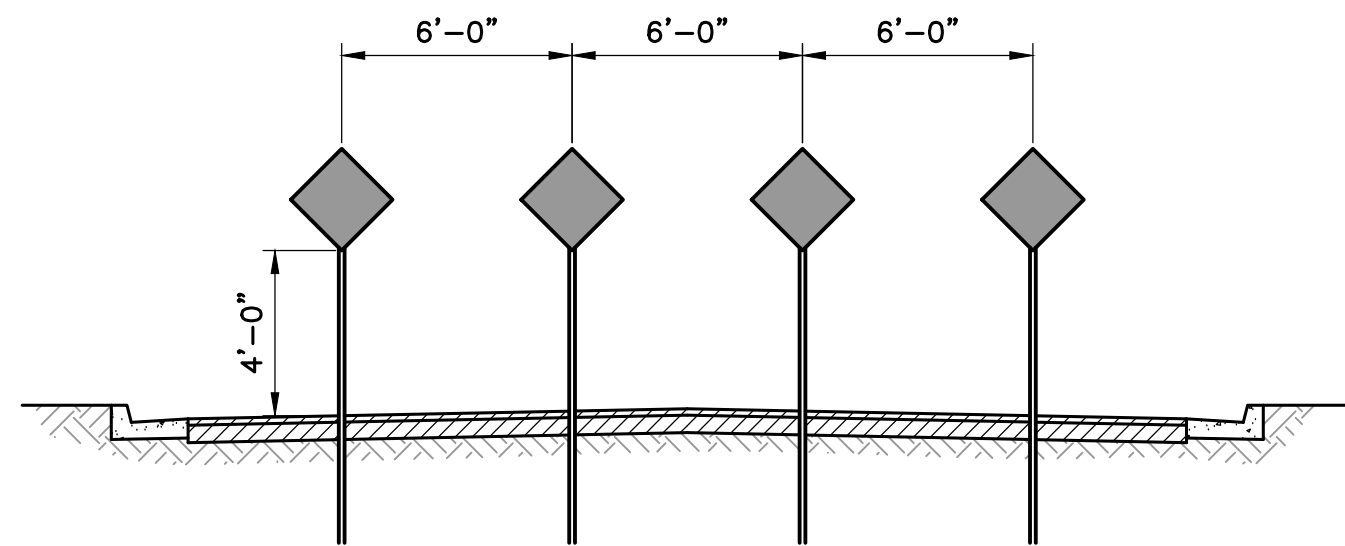




TYPICAL 36' COLLECTOR STREET SECTION
NOT TO SCALE



TYPICAL 28' LOCAL/ACCESS STREET SECTION
NOT TO SCALE



TYPE OM4-3 END PAVEMENT MARKERS
NOT TO SCALE

1. TYPE OM4-3 OBJECT MARKERS (SIZE 18"x18") ARE TO BE INSTALLED AT THE TERMINATION POINTS OF SW NATIONAL AVE. AND SW KLINE AVE.
2. SIGN INSTALLATION AND MATERIALS TO CONFORM TO THE CITY OF LEE'S SUMMIT STANDARD DESIGN CRITERIA.

GENERAL NOTES

1. REFER TO LEE'S SUMMIT STANDARD DETAIL GEN-4 FOR CURB SECTIONS AND ADDITIONAL NOTES. SEE SHEET 28 OF 30.
2. GEOGRID MUST MEET SPECIFICATIONS OF LEE'S SUMMIT SECTION 2200, 2201.6.C.
3. MATERIAL DEPTHS PROVIDED ARE CITY'S ABSOLUTE MINIMUM ACCEPTABLE DEPTHS.
4. ALL SIDEWALK SHOWN ALONG TRACTS SHALL BE CONSTRUCTED DURING PUBLIC INFRASTRUCTURE CONSTRUCTION.
5. ADA ACCESSIBLE RAMP SHALL BE CONSTRUCTED DURING PUBLIC INFRASTRUCTURE CONSTRUCTION.

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LEE'S SUMMIT, MISSOURI

MASS GRADING, EROSION CONTROL,
PAVING AND STORM SEWER PLANS
TYPICAL STREET SECTION
AND DETAILS

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LEE'S SUMMIT, MISSOURI

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PAVING AND STORM SEWER PLANS
TYPICAL STREET SECTION
AND DETAILS

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SUMMIT VIEW FARMS 4TH PLAT

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SUMMIT VIEW FARMS 4TH PLAT

LEE'S SUMMIT, MISSOURI

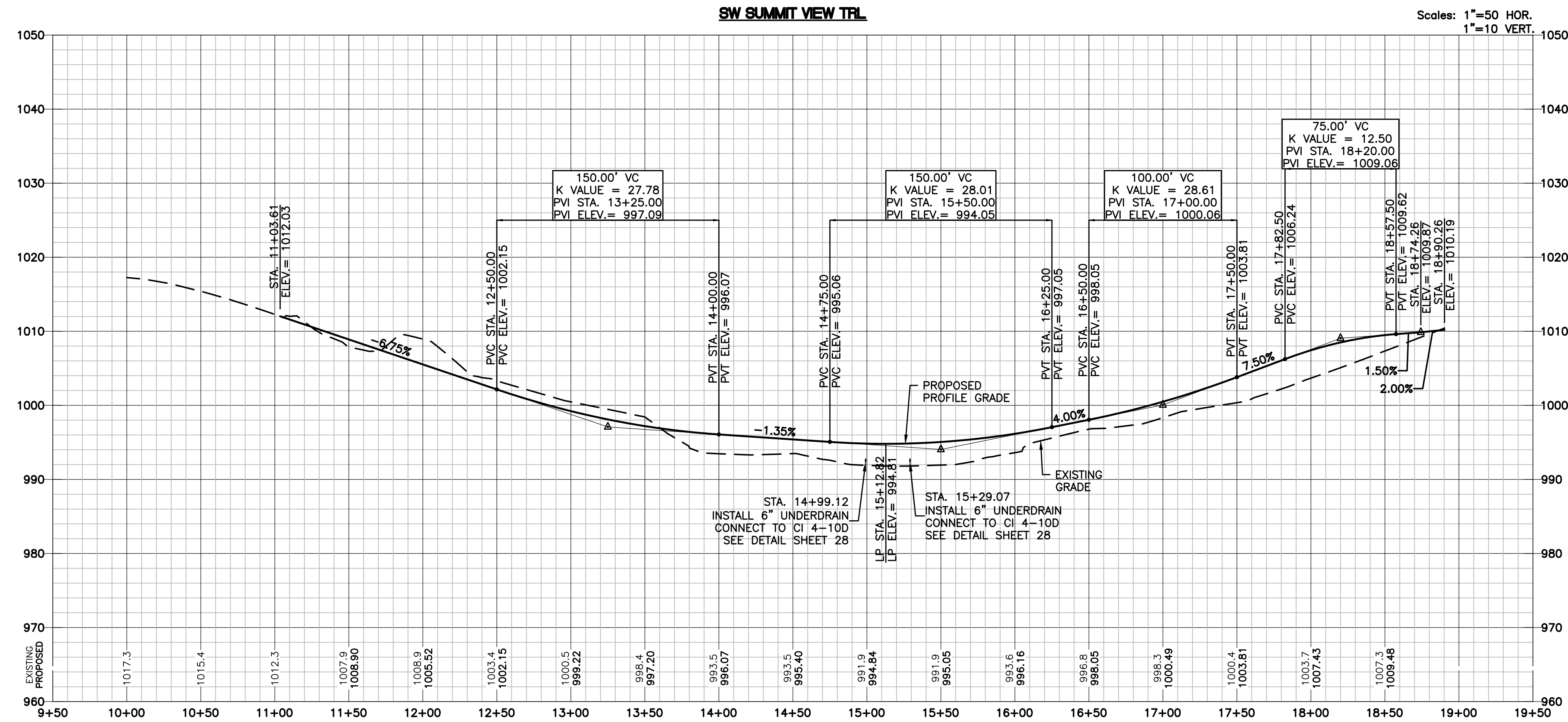
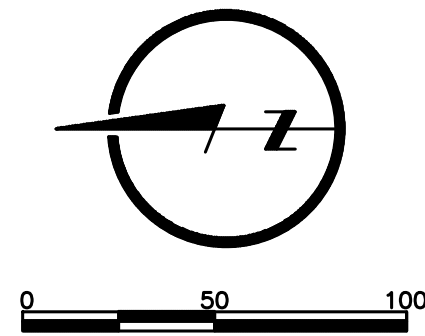
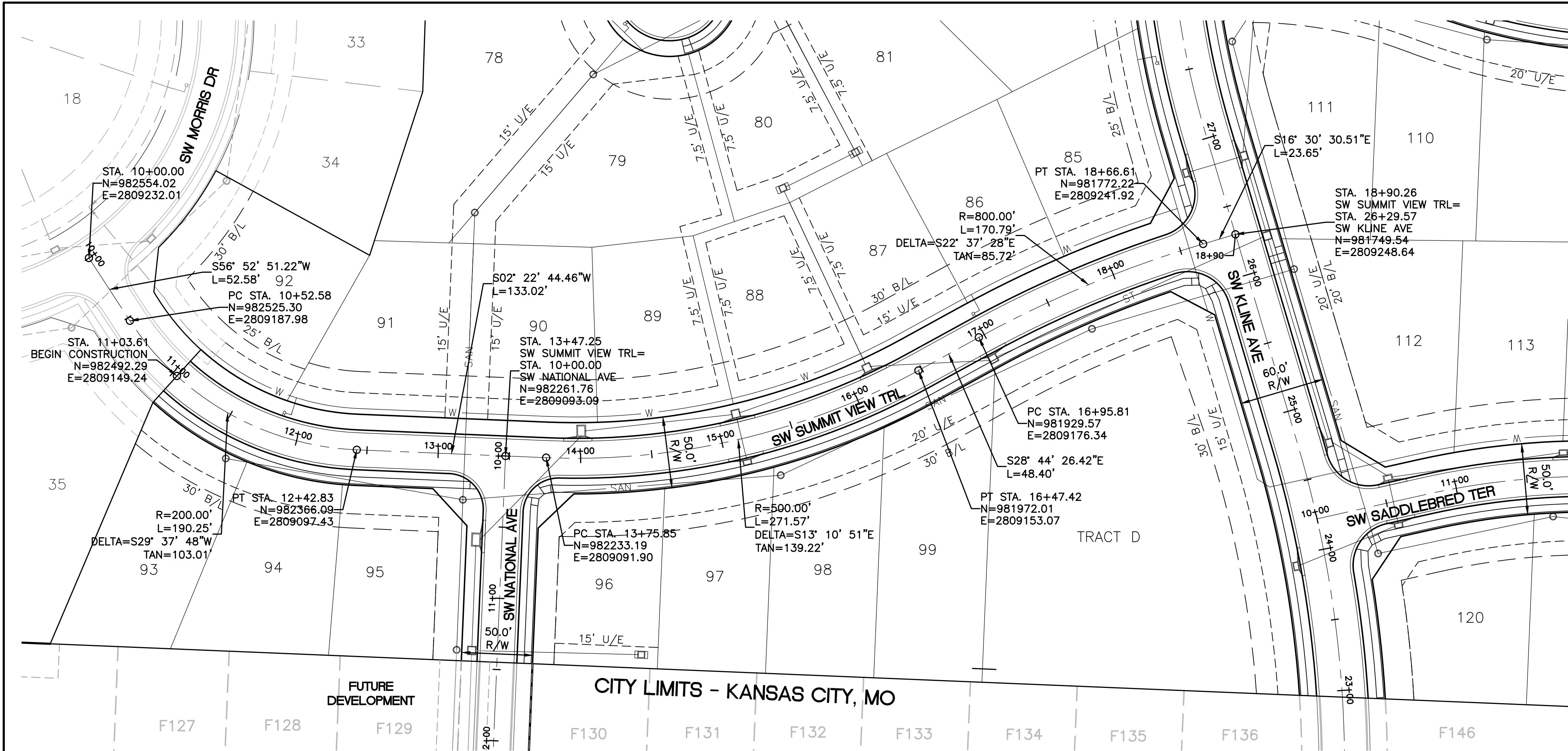
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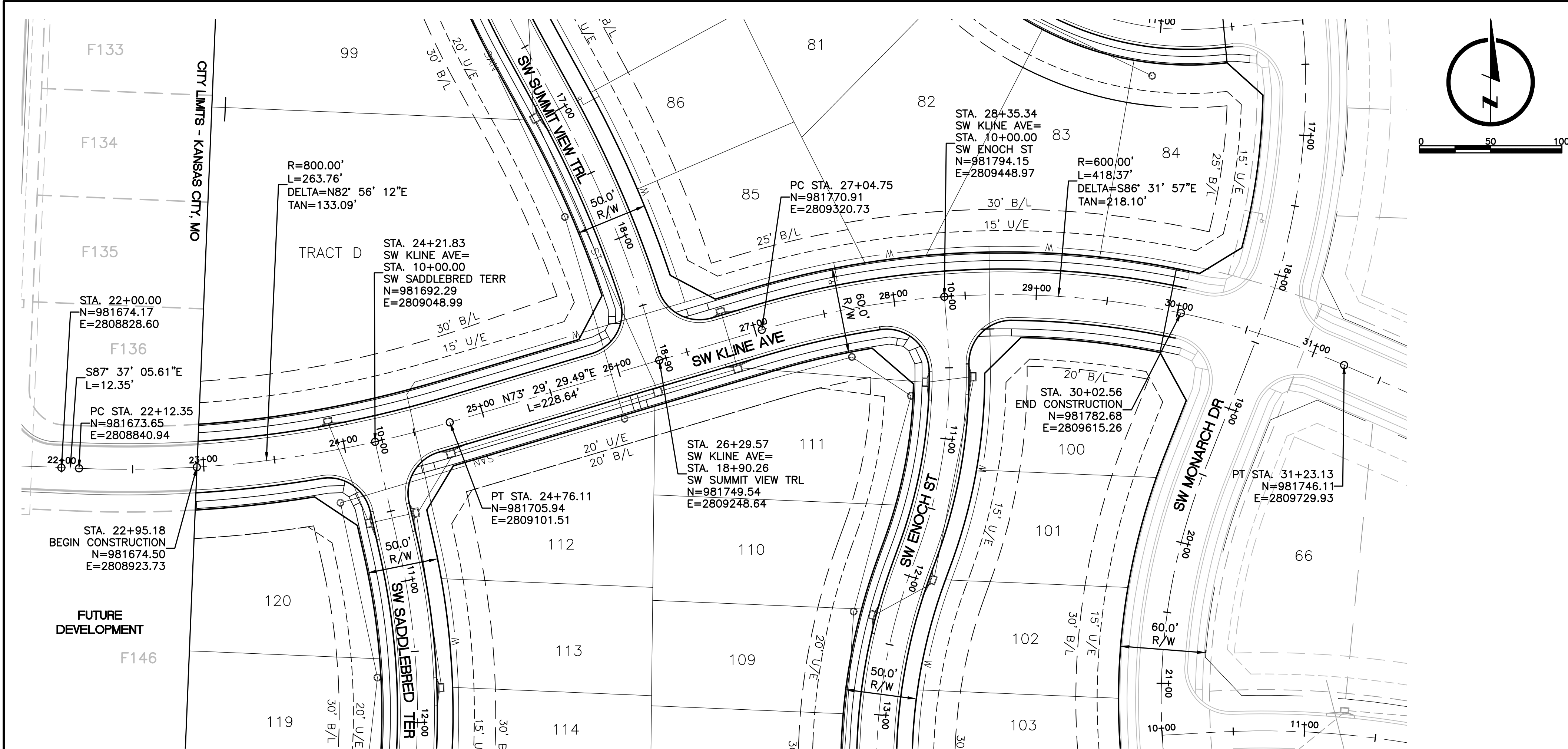
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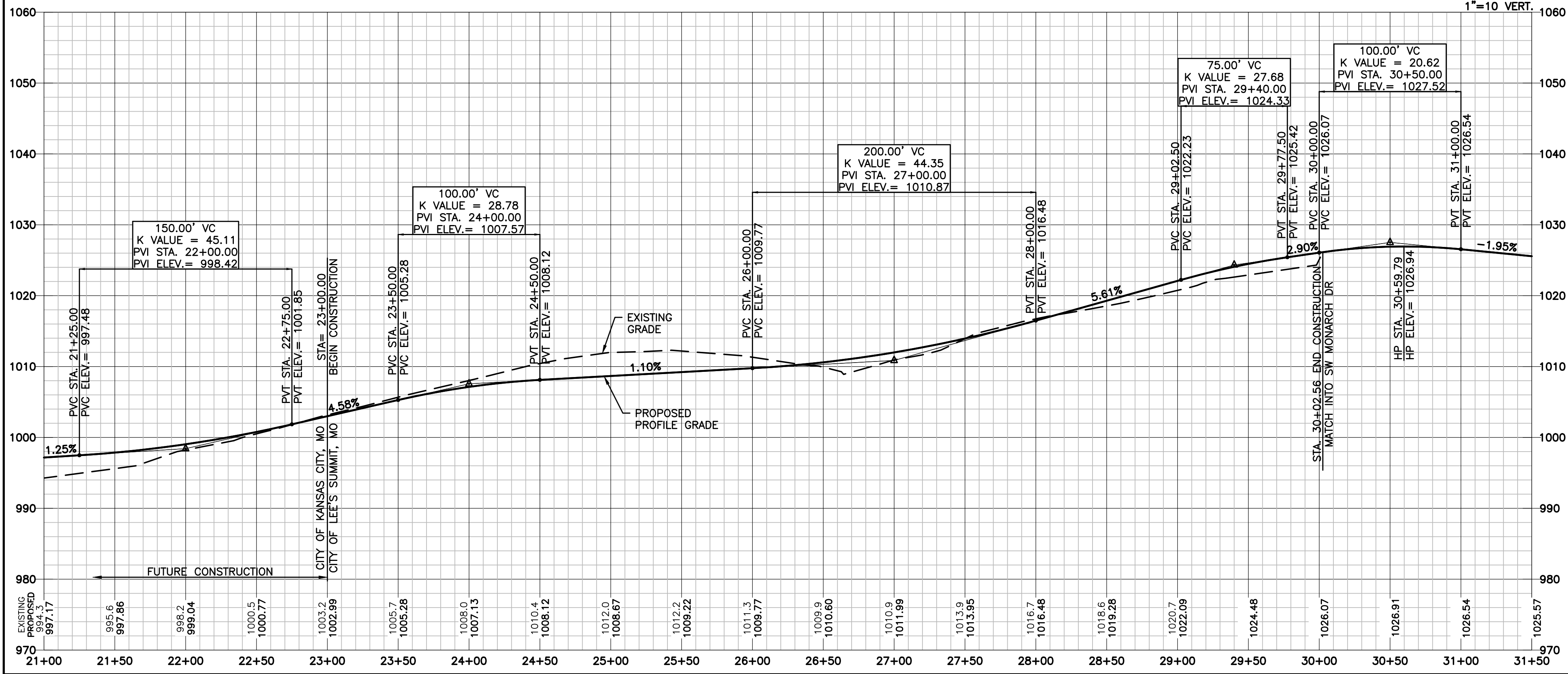


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SUMMIT VIEW FARMS 4TH PLAT		LEE'S SUMMIT, MISSOURI	
MASS GRADING, EROSION CONTROL, PAVING AND STORM SEWER PLANS SW SUMMIT VIEW TRL STREET PLAN/PROFILE			
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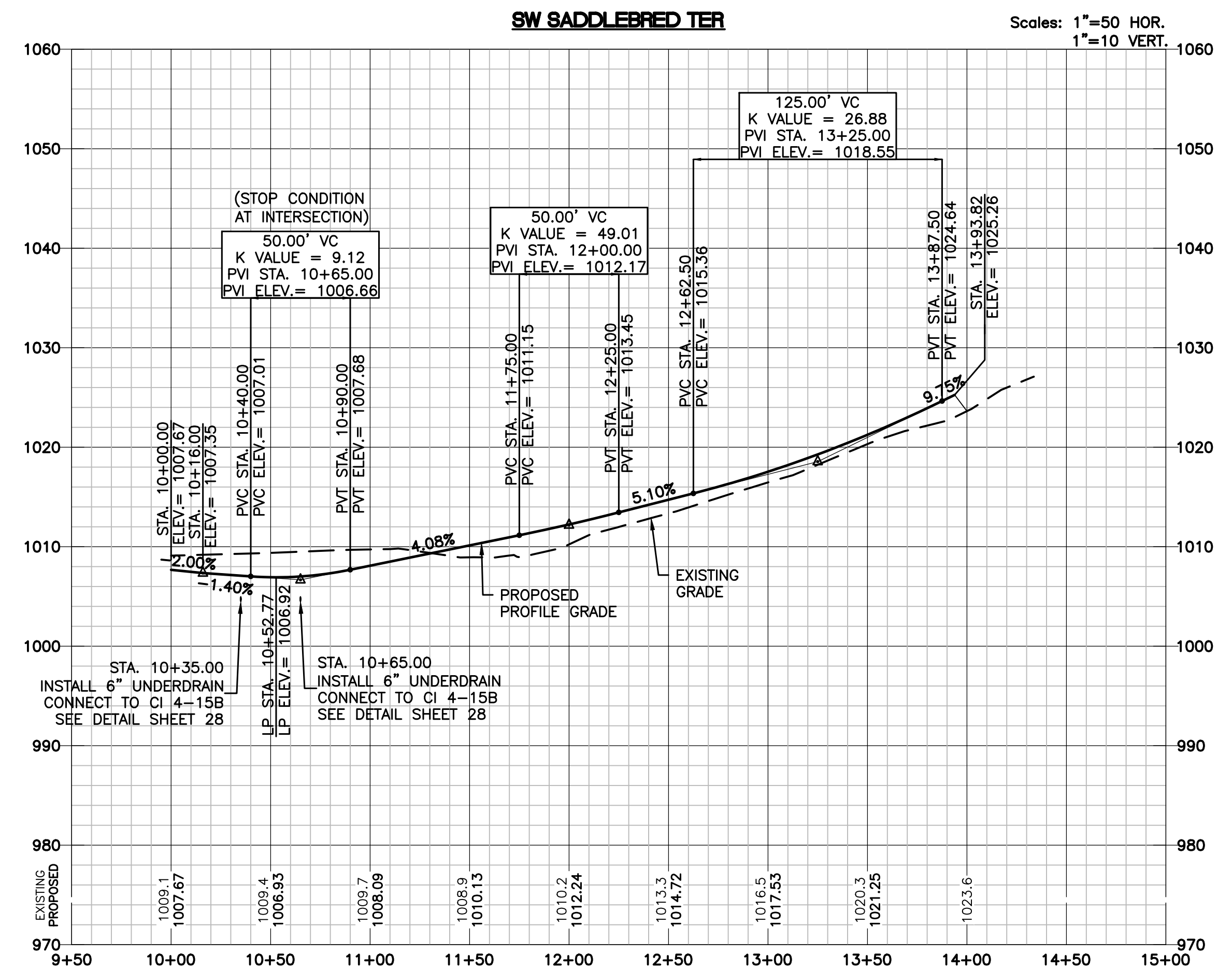
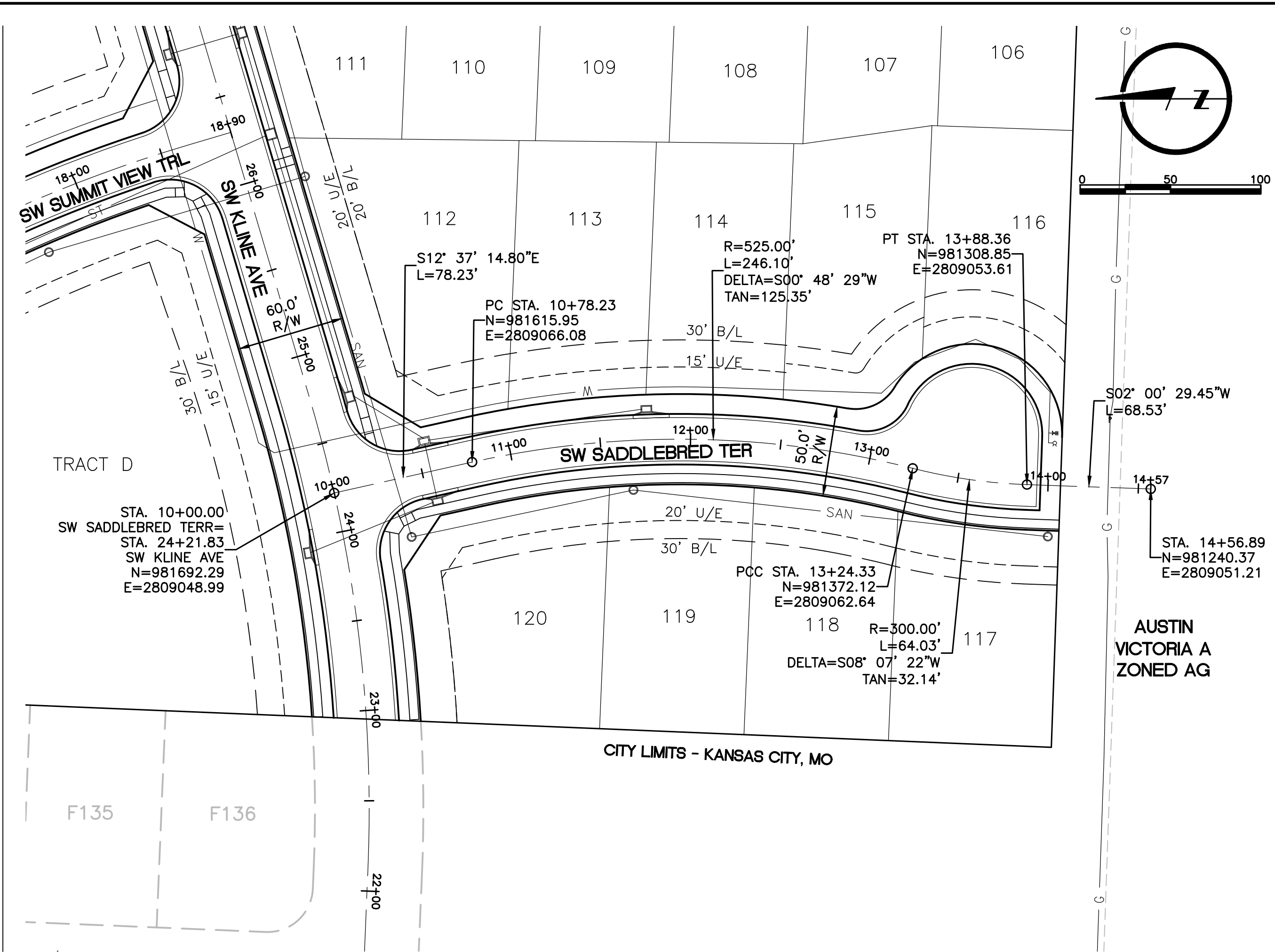
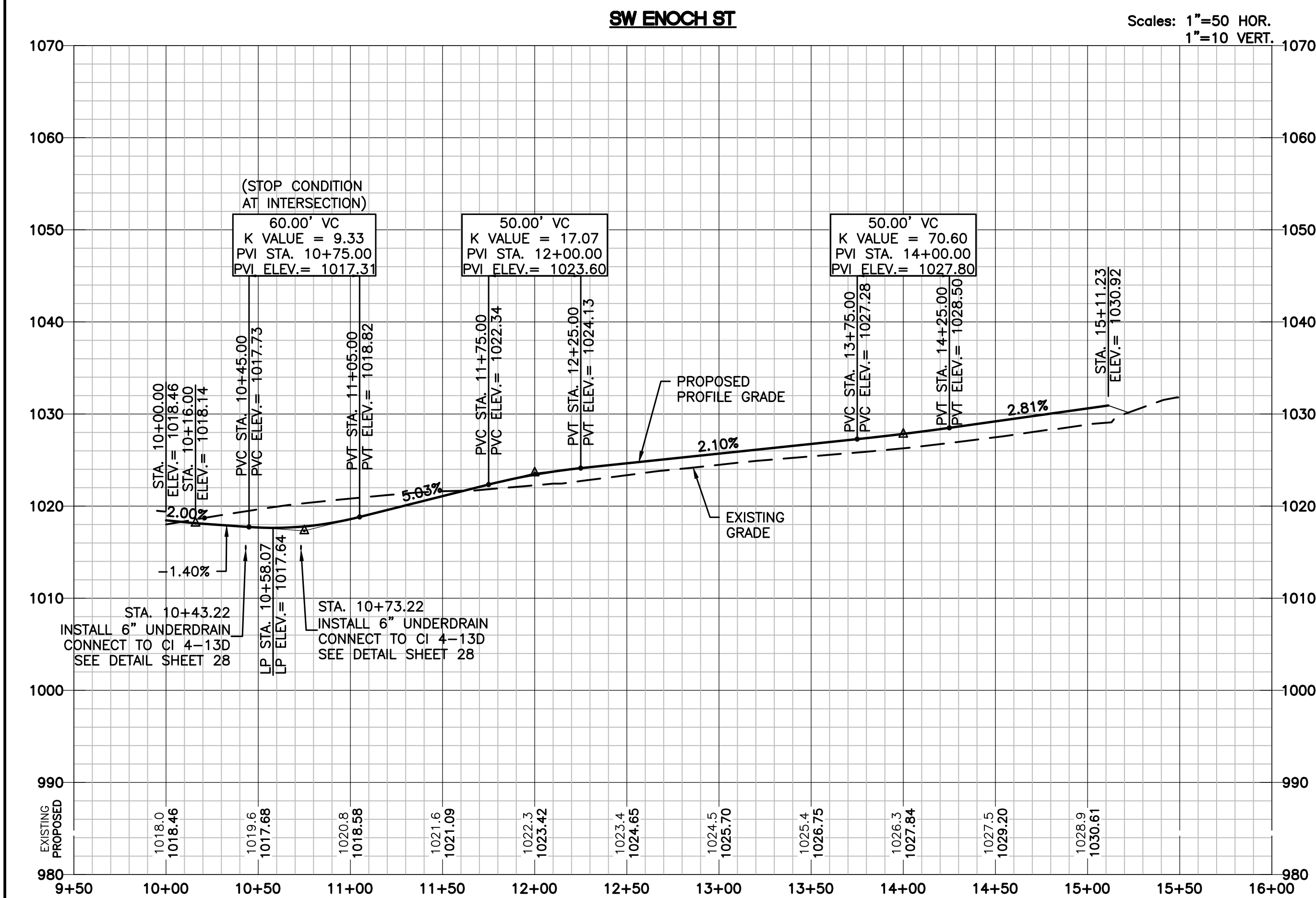
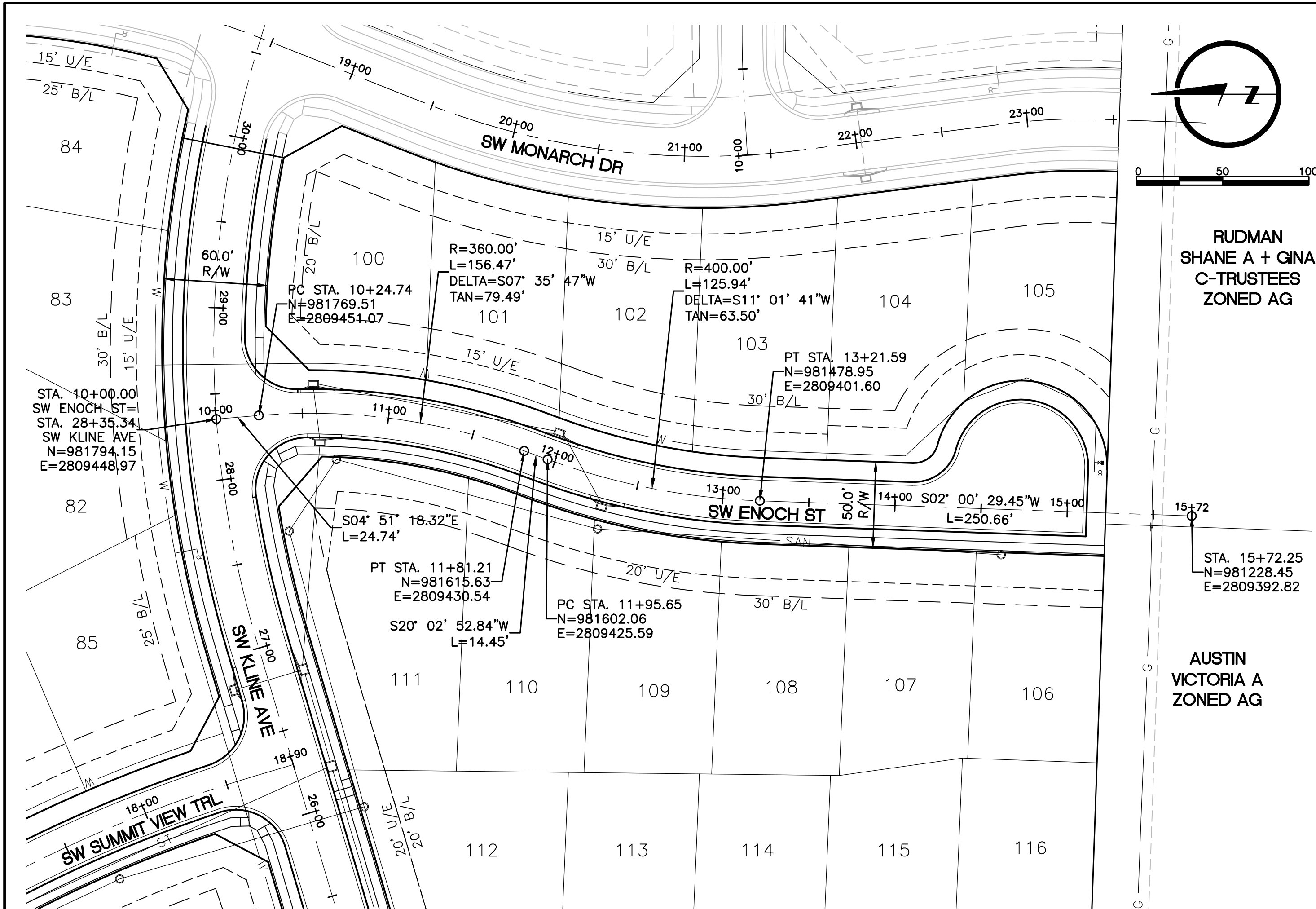


Scales: 1"=50 HOR.
1"=10 VERT.

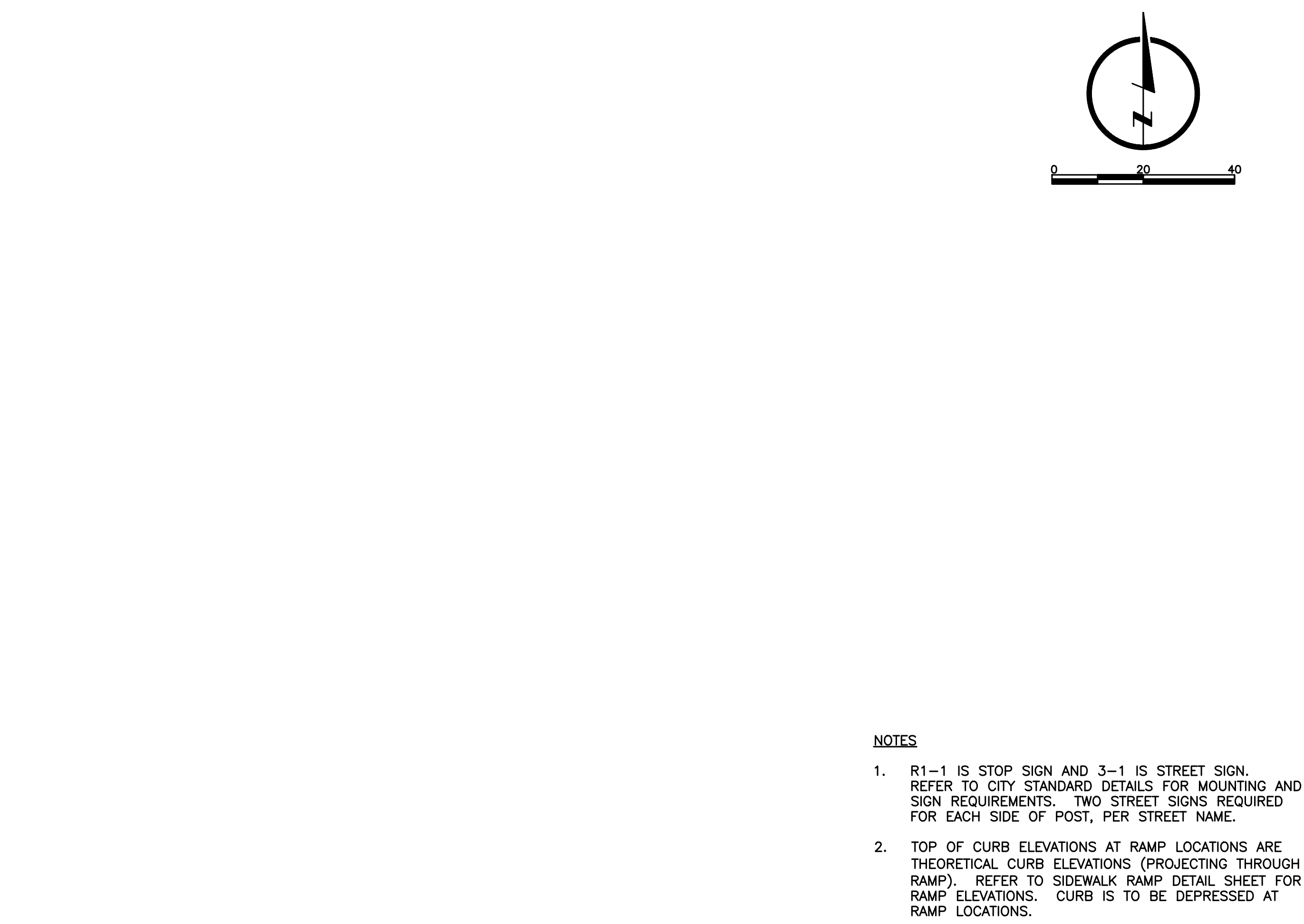
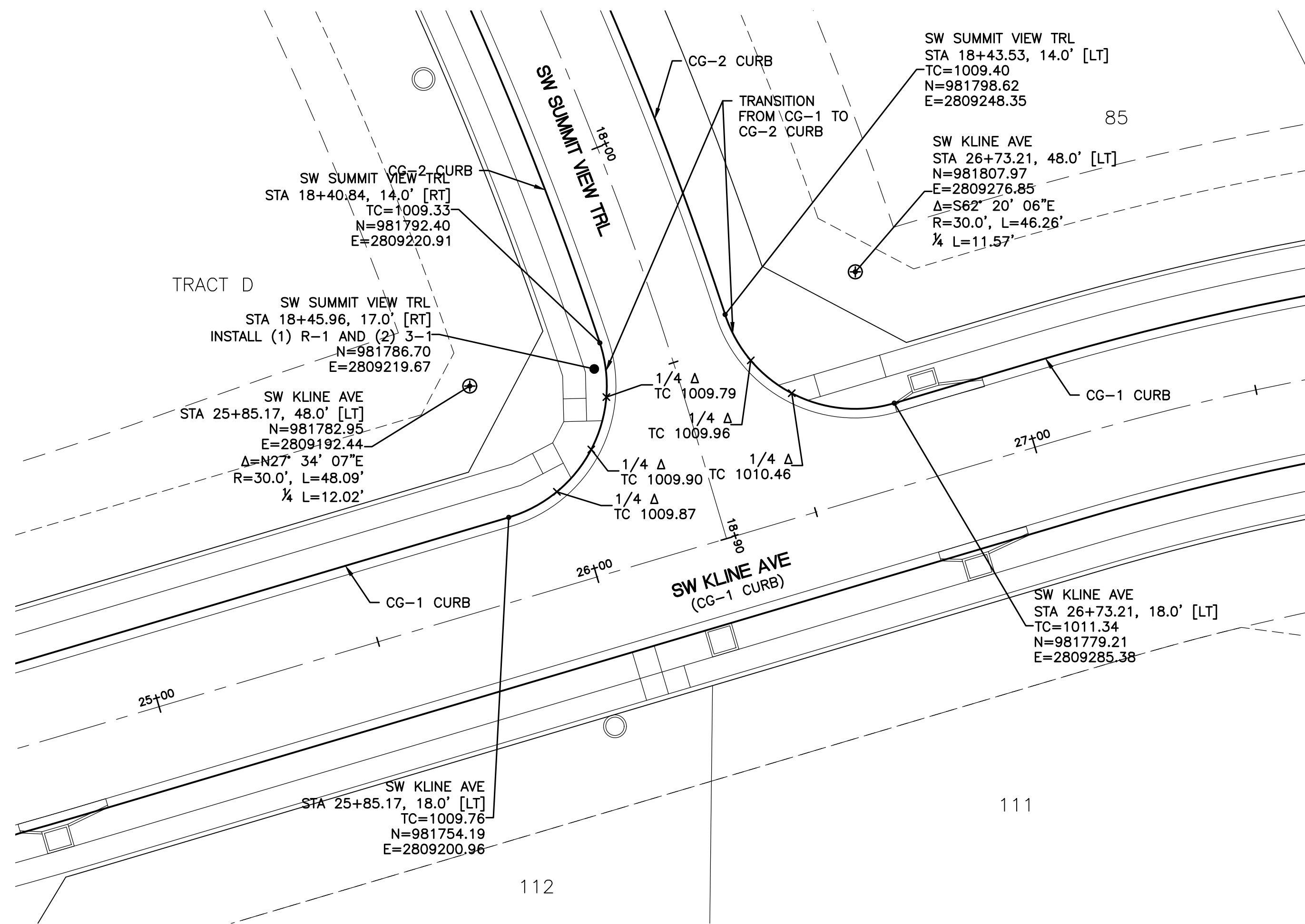


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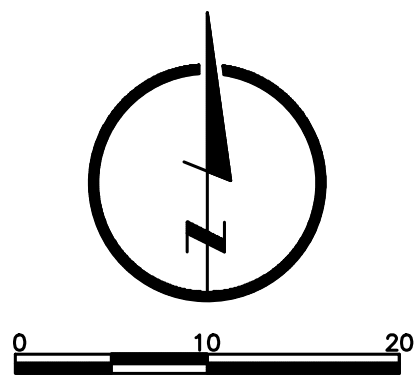
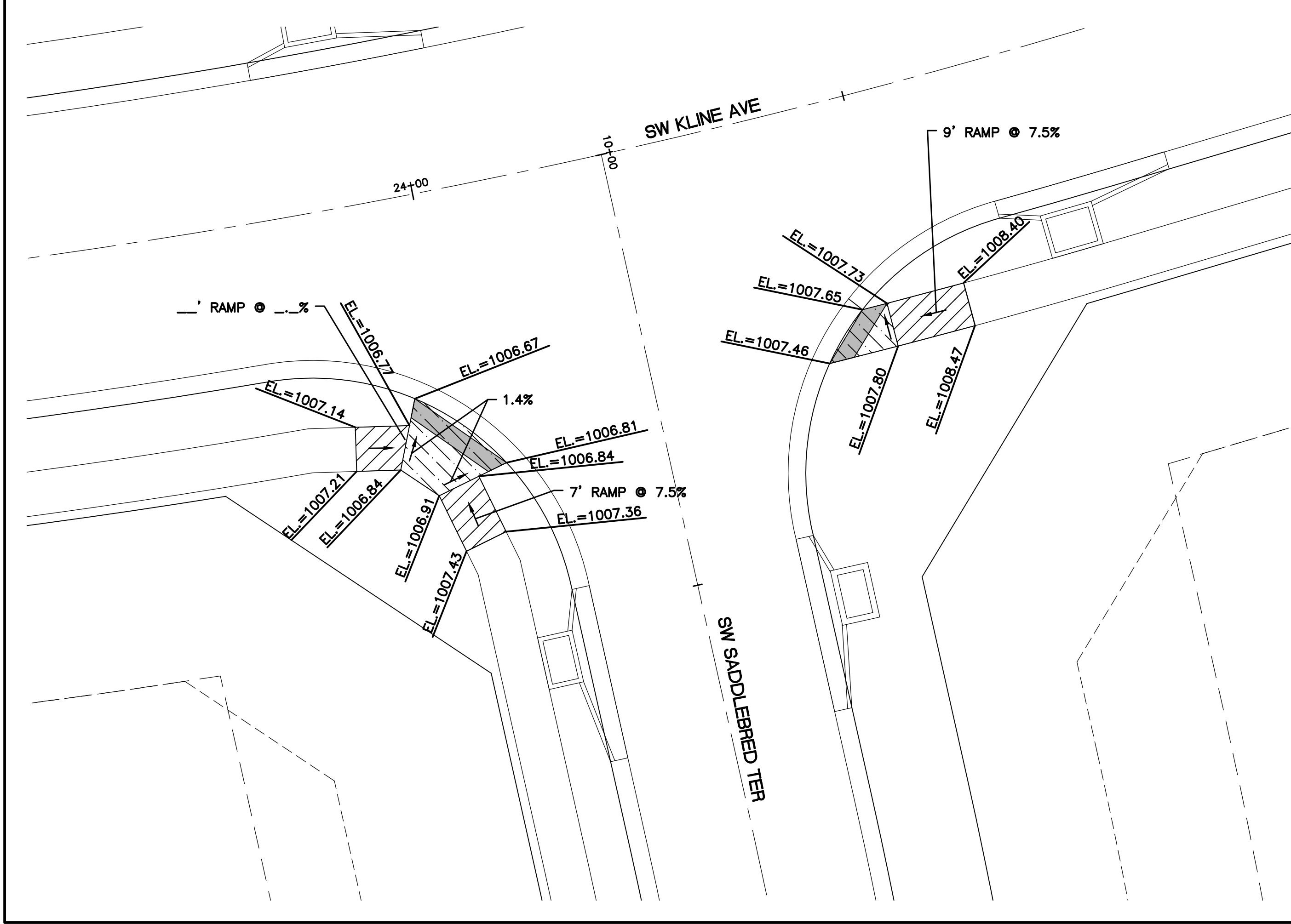
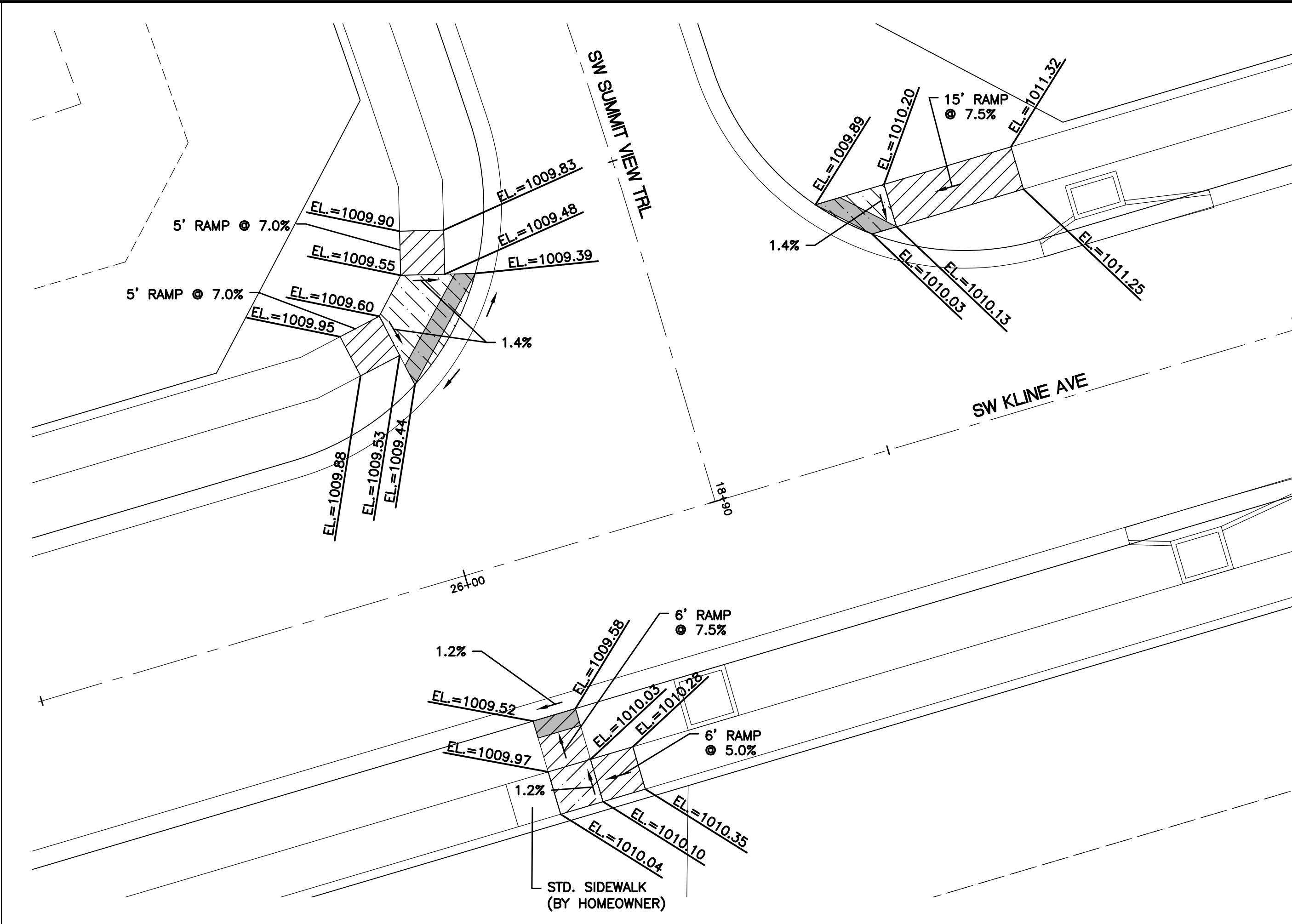
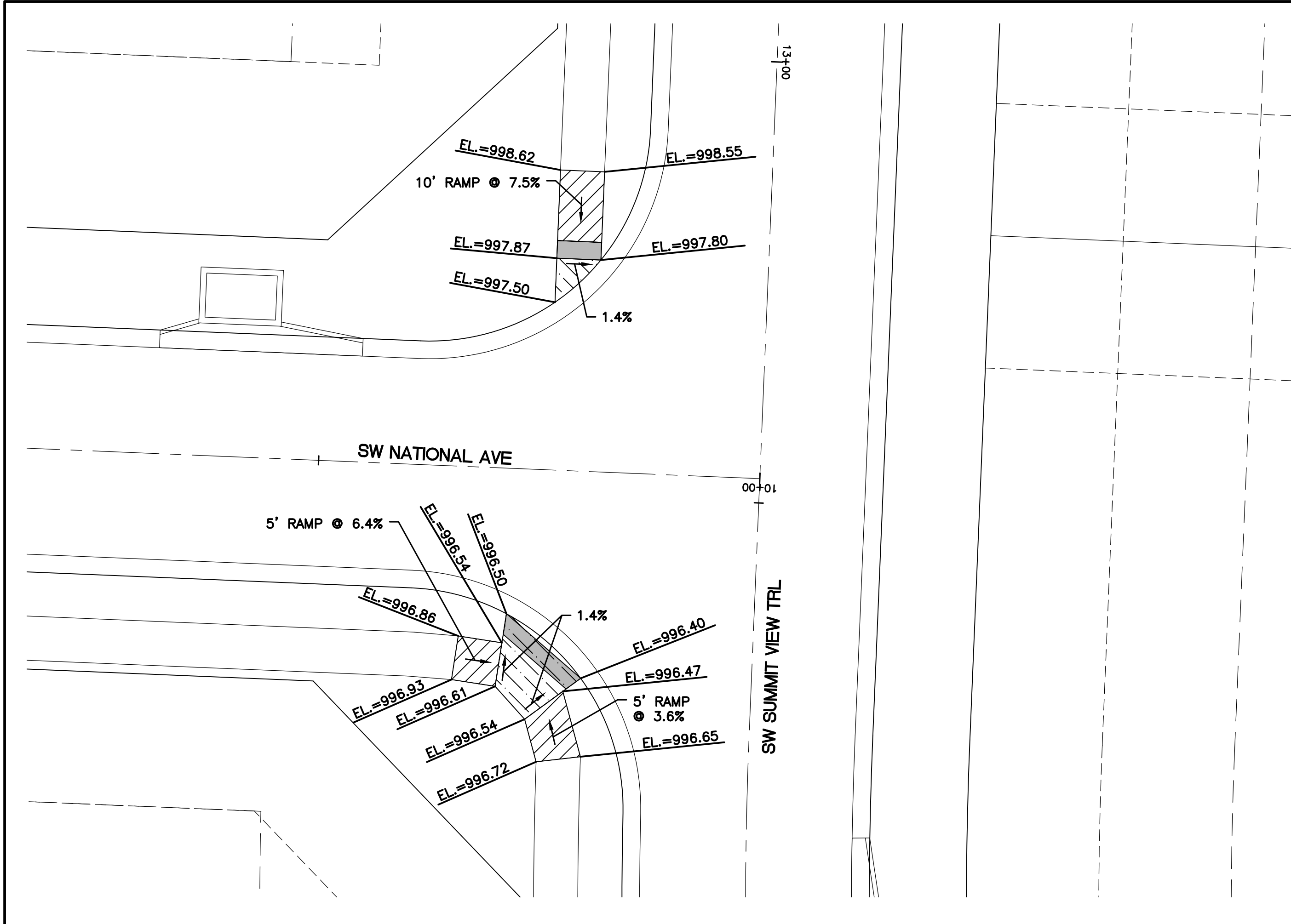
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MASS GRADING, EROSION CONTROL, PAVING AND STORM SEWR PLANS SW ENOCH ST. AND SW SADDLEBRED TER. STREET PLAN/PROFILE	
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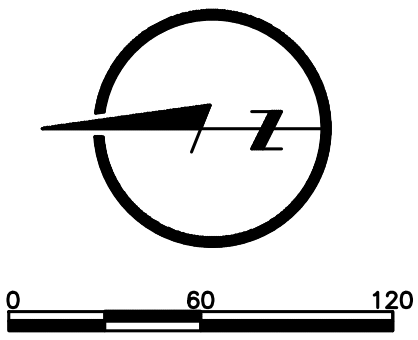
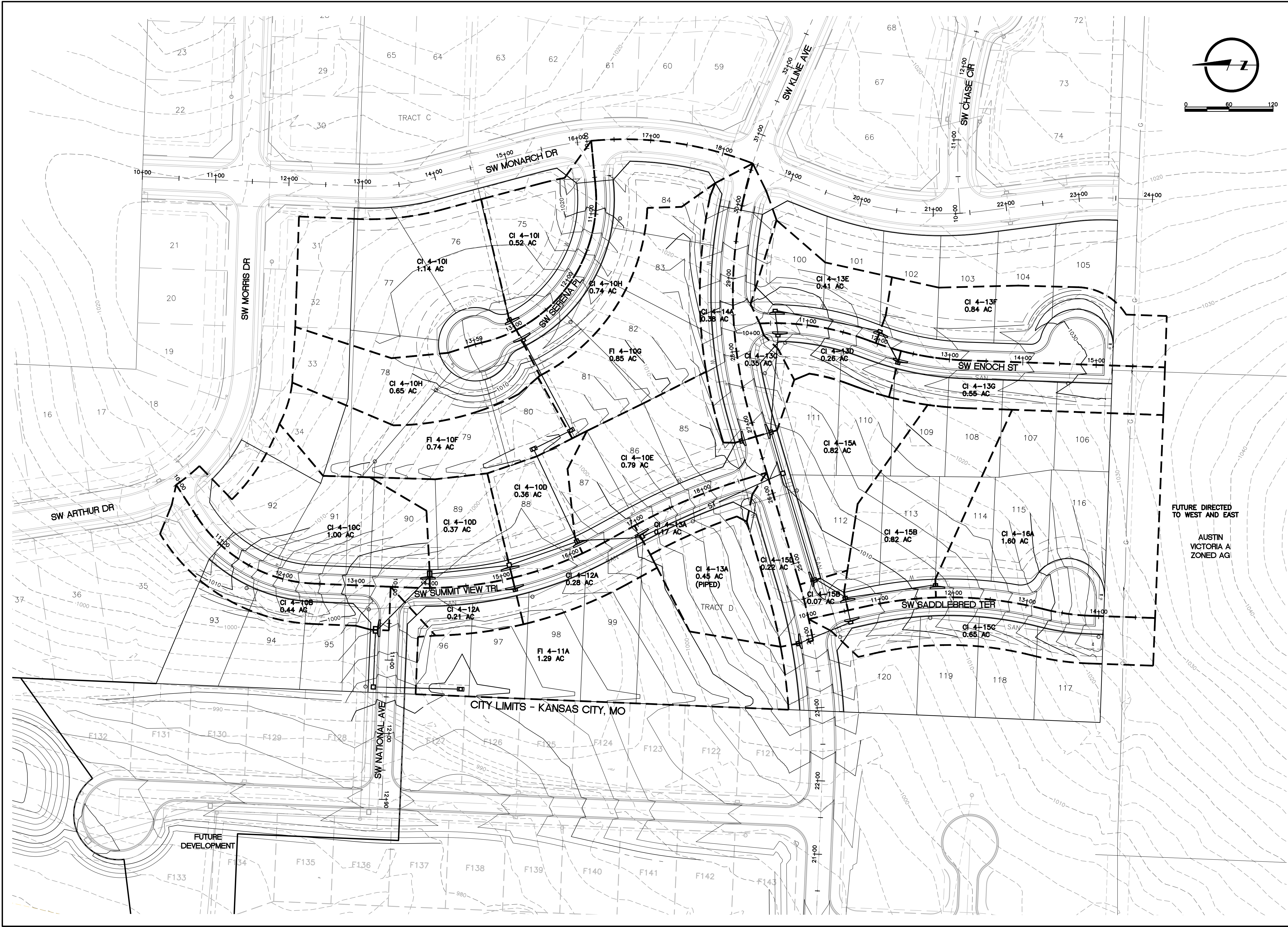
1. R1-1 IS STOP SIGN AND 3-1 IS STREET SIGN.
REFER TO CITY STANDARD DETAILS FOR MOUNTING AND
SIGN REQUIREMENTS. TWO STREET SIGNS REQUIRED
FOR EACH SIDE OF POST, PER STREET NAME.
2. TOP OF CURB ELEVATIONS AT RAMP LOCATIONS ARE
THEORETICAL CURB ELEVATIONS (PROJECTING THROUGH
RAMP). REFER TO SIDEWALK RAMP DETAIL SHEET FOR
RAMP ELEVATIONS. CURB IS TO BE DEPRESSED AT
RAMP LOCATIONS.

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MASS GRADING, EROSION CONTROL, PAVING AND STORM SEWER PLANS RAMP LAYOUT PLAN	
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MASS GRADING, EROSION CONTROL, PAVING AND STORM SEWER PLANS	DRAINAGE AREA MAP
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Inlet	Street	Street Station	Allowable Spread	Cross Road Slope	Drainage Area	Weighted C	Total Inlet Time	10-yr intensity (in/hr)	10-yr K Value	10-yr Runoff	Bypass to Inlet (ID)	Bypass to Inlet (cfs)	Total Runoff	Inlet Type	Inlet Condition	Curb Type	Manning's "n"	Street Grade PC	Street Grade PT	Distance to PC	Total Length of Curve	Street Grade on Curve at X	Street Slope %	Depth of Flow at Curb	Max Allowable Depth at	Spread of Flow at Curb	Inlet Length	Effective Inlet Length	Intercept Ratio Percentage	Inlet Capacity	Bypass Flow
4-10I S	Serena	13+01.50, 15.5' RT	12.00	0.25	0.52	0.51	5.00	7.35	1.0	1.95			1.95	CI	1	A	0.014	-0.0180	0.0668	86.00	175.00	0.023673	0.00	0.152	0.219	8.80	5	4	1.000	1.95	0.00
4-10I N	Serena	13+01.50, 15.5' RT	12.00	0.25	1.14	0.51	6.97	6.79	1.0	3.95			3.95	CI	1	A	0.014	-0.0180	-0.0180	1.00	1.00	-0.018	0.00	0.209	0.219	11.52	5	4	1.000	3.95	0.00
4-10H S	Serena	12+97.62, 15.5' LT	12.00	0.25	0.74	0.60	5.00	7.35	1.0	3.26			3.26	CI	1	A	0.014	-0.0180	0.0668	89.88	175.00	0.025553	0.00	0.182	0.219	10.24	5	4	1.000	3.26	0.00
4-10H N	Serena	12+97.62, 15.5' LT	12.00	0.25	0.65	0.60	5.00	7.35	1.0	2.87			2.87	CI	1	A	0.014	-0.0180	-0.0180	1.00	1.00	-0.018	0.00	0.185	0.219	10.39	5	4	1.000	2.87	0.00
4-10G	Summit View	16+82.42, 155.5' LT	12.00	0.25	0.85	0.45	7.32	6.70	1.0	2.56			2.56	FI	1	A	0.014	0.0100	0.0100	1.00	1.00	0.01	0.00	0.198	0.219	N/A	5	4	1.000	2.56	0.00
4-10F	Summit View	16+15.56, 157.2' LT	12.00	0.25	0.74	0.45	6.56	6.90	1.0	2.30			2.30	FI	1	A	0.014	0.0100	0.0100	1.00	1.00	0.01	0.00	0.190	0.219	N/A	5	4	1.000	2.30	0.00
4-13G	Enoch	12+32.92, 15.5' RT	12.00	0.25	0.55	0.60	5.00	7.35	1.0	2.43			2.43	CI	2	A	0.014	0.0210	0.0210	1.00	1.00	0.021	2.10	0.169	0.219	9.61	5	5	0.779	1.89	0.54
4-13F	Enoch	11+96.78, 15.5' LT	12.00	0.25	0.84	0.51	5.46	7.21	1.0	3.09			3.09	CI	1	A	0.014	0.0210	0.0210	1.00	1.00	0.021	2.10	0.185	0.219	10.38	5	5	0.728	2.25	0.84
4-13E	Enoch	10+56.25, 15.5' LT	12.00	0.25	0.41	0.51	5.08	7.33	1.0	1.53	4-13F	0.84	2.37	CI	1	A	0.014	0.0503	0.0503	1.00	1.00	0.0503	0.00	0.142	0.219	8.33	5	4	1.000	2.37	0.00
4-13D	Enoch	10+60.37, 15.5' RT	12.00	0.25	0.26	0.60	5.00	7.35	1.0	1.15	4-13G	0.54	1.68	CI	1	A	0.014	0.0503	0.0503	1.00	1.00	0.0503	0.00	0.125	0.219	7.50	5	4	1.000	1.68	0.00
4-13C	Kline	26+80.71, 19.5' RT	12.00	0.25	0.35	0.55	5.15	7.31	1.0	1.41	4-13D	0.00	1.41	CI	2	B	0.014	0.0110	0.0561	80.71	200.00	0.0292	2.92	0.129	0.236	6.88	5	5	0.963	1.36	0.05
4-14A	Kline	26+80.72, 19.5' LT	12.00	0.25	0.38	0.60	5.00	7.35	1.0	1.68			1.68	CI	2	B	0.014	0.0110	0.0561	80.72	200.00	0.029202	2.92	0.138	0.236	7.31	5	5	0.946	1.59	0.09
4-16A	Saddlebred	11+76.16, 15.5' LT	12.00	0.25	1.60	0.51	7.21	6.73	1.0	5.49			5.49	CI	2	A	0.014	0.0408	0.0510	1.16	50.00	0.041037	4.10	0.202	0.219	11.21	5	5	0.439	2.41	3.08
4-15D	Kline	23+91.77, 19.5' LT	12.00	0.25	0.22	0.60	5.00	7.35	1.0	0.97			0.97	CI	2	B	0.014	0.0458	0.0110	41.77	100.00	0.031264	3.13	0.111	0.236	6.01	5	5	0.986	0.96	0.01
4-15C	Saddlebred	10+54.86, 15.5' RT	12.00	0.25	0.65	0.60	5.00	7.35	1.0	2.87			2.87	CI	1	A	0.014	0.0408	0.0408	1.00	1.00	0.0408	0.00	0.159	0.219	9.12	5	4	1.000	2.87	0.00
4-15B S	Saddlebred	10+54.86, 15.67' LT	12.00	0.25	0.82	0.51	7.86	6.56	1.0	2.74	4-16A	3.08	5.82	CI	1	A	0.014	0.0408	0.0408	1.00	1.00	0.0408	0.00	0.207	0.219	11.44	5	4	1.000	5.82	0.00
4-15B N	Saddlebred	10+54.86, 15.67' LT	12.00	0.25	0.07	0.65	5.00	7.35	1.0	0.33	4-15A	0.17	0.50	CI	1	A	0.014	-0.0140	-0.0140	1.00	1.00	-0.014	0.00	0.101	0.219	6.34	5	4	1.000	0.50	0.00
4-15A	Kline	24+70.68, 19.5' RT	12.00	0.25	0.82	0.51	7.39	6.68	1.0	2.79	4-13C	0.05	2.85	CI	2	B	0.014	0.0110	0.0110	1.00	1.00	0.011	1.10	0.202	0.236	10.39	5	5	0.942	2.68	0.17
4-13B	Kline	26+12.30, 21.0' RT	12.00	0.25	0.00	0.51	5.00	7.35	1.0	0.00			0.00	JB	2	B	0.014	0.0110	0.0561	12.30	200.00	0.013774	1.38	0.000	0.236	N/A	5	5	0.000	0.00	0.00
4-13A	Summit View	16+97.49, 15.5' RT	12.00	0.25	0.17	0.60	5.00	7.35	1.0	0.75			0.75	CI	2	A	0.014	0.0400	0.0700	47.79	100.00	0.054337	5.43	0.091	0.219	5.87	5	5	0.862	0.65	0.10
-13A (PIPE)	Summit View	16+97.49, 15.5' RT	12.00	0.25	0.45	0.65	5.00	7.35	1.0	2.15			2.15	JB	1	A	0.014	0.0400	0.0700	47.79	100.00	0.054337	0.00	0.135	0.219	N/A	5	4	1.000	2.15	0.00
4-12A S	Summit View	15+14.12, 15.5' RT	12.00	0.25	0.28	0.60	5.00	7.35	1.0	1.24	4-13A	0.10	1.34	CI	1	A	0.014	-0.0135	0.0400	89.12	150.00	0.018286	0.00	0.139	0.219	8.16	5	4	1.000	1.34	0.00
4-12A N	Summit View	15+14.12, 15.5' RT	12.00	0.25	0.21	0.60	5.00	7.35	1.0	0.93			0.93	CI	1	A	0.014	-0.0135	-0.0135	1.00	1.00	-0.0135	0.00	0.128	0.219	7.64	5	4	1.000	0.93	0.00
4-11A	National	11+36.91, 101.1' LT	12.00	0.25	1.29	0.45	6.39	6.95	1.0	4.03			4.03	FI	1	A	0.014	0.0100	0.0100	1.00	1.00	0.01	0.00	0.235	0.219	N/A	5	4	1.000	4.03	0.00
4-10E	Summit View	16+15.59, 15.5' LT	12.00	0.25	0.79	0.51	6.31	6.97	1.0	2.81	4-14A	0.09	2.90	CI	2	A	0.014	-0.0135	0.0400	140.59	150.00	0.036644	3.66	0.163	0.219	9.31	5	5	0.648	1.88	1.02
4-10D S	Summit View	15+14.12, 15.5' LT	12.00	0.25	0.36	0.51	5.00	7.35	1.0	1.35	4-10E	1.02	2.37	CI	1	A	0.014	-0.0135	0.0400	89.12	150.00	0.018286	0.00	0.172	0.219	9.75	5	4	1.000	2.37	0.00
4-10D N	Summit View	15+14.12, 15.5' LT	12.00	0.25	0.37	0.51	5.00	7.35	1.0	1.39	4-10C	0.82	2.21	CI	1	A	0.014	-0.0135	-0.0135	1.00	1.00	-0.0135	0.00	0.177	0.219	10.00	5	4	1.000	2.21	0.00
4-10C	Summit View	14+00.60, 15.67' LT	12.00	0.25	1.00	0.51	6.59	6.89	1.0	3.52			3.52	CI	2	A	0.014	-0.0135	-0.0135	1.00	1.00	-0.0135	1.35	0.211	0.219	11.62	5	5	0.767	2.70	0.82
4-10B	National	10+59.54, 15.67' RT	12.00	0.25	0.44	0.60	5.00	7.35	1.0	1.94			1.94	CI	2	A	0.014	-0.0150	-0.0642	25.00	60.00	-0.0355	3.55	0.141	0.219	8.26	5	5	0.750	1.46	0.49
4-10A	National	11+37.38, 17.7' RT	12.00	0.25	0.00	0.51	5.00	7.35	1.0	0.00			0.00	JB	2	A	0.014	-0.0642	-0.0250	20.00	125.00	-0.05793	5.79	0.000	0.219	N/A	5	5	0.000	0.00	0.00
5-11A (FUT)	KCMO	13+88.91, 15.5' LT	12.00	0.25	1.00	0.45	6.84	6.82	1.0	3.07			3.07	CI	2	A	0.014	0.0125	0.0125	1.00	1.00	0.0125	1.25	0.203	0.219	11.26	5	5	0.803	2.47	0.61
5-10 (FUT)	KCMO	pipd flow from south	12.00	0.25	3.04	0.51	7.67	6.61	1.0	10.25			10.25	JB	1	A	0.014	-0.0100	-0.0100	1.00	1.00	-0.01	0.00	0.333	0.219	N/A	5	4	1.000	10.25	0.00
5-10D	KCMO	15+56.88, 18.0' RT	12.00	0.25	0.00	0.51	5.00	7.35	1.0	0.00			0.00	JB	2	A	0.014	-0.0100	-0.0100	1.00	1.00	-0.01	1.00	0.000	0.219	N/A	5	5	0.000	0.00	0.00
5-10C	KCMO	13+40.79, 15.5' RT	12.00	0.25	0.35	0.60	5.31	7.26	1.0	1.52			1.52	CI	2	A	0.014	0.0125	0.0125	1.00	1.00	0.0125	1.25	0.156	0.219	9.01	5	5	0.900	1.37	0.15
5-10B W	KCMO	12.00	0.25	0.27	0.60	5.00	7.35	1.0	1.19			1.19	CI	1	A	0.014	-0.0302	-0.0302	1.00	1.00	-0.0302	0.00	0.121	0.219	7.30	5	4	1.000	1.19	0.00	
5-10B E	KCMO	12.00	0.25	1.15	0.51	7.52	6.65	1.0	3.90			3.90	CI	1	A	0.014	0.0200	0.0200	1.00	1.00	0.02	0.00	0.204	0.219	11.28	5	4	1.000	3.90	0.00	

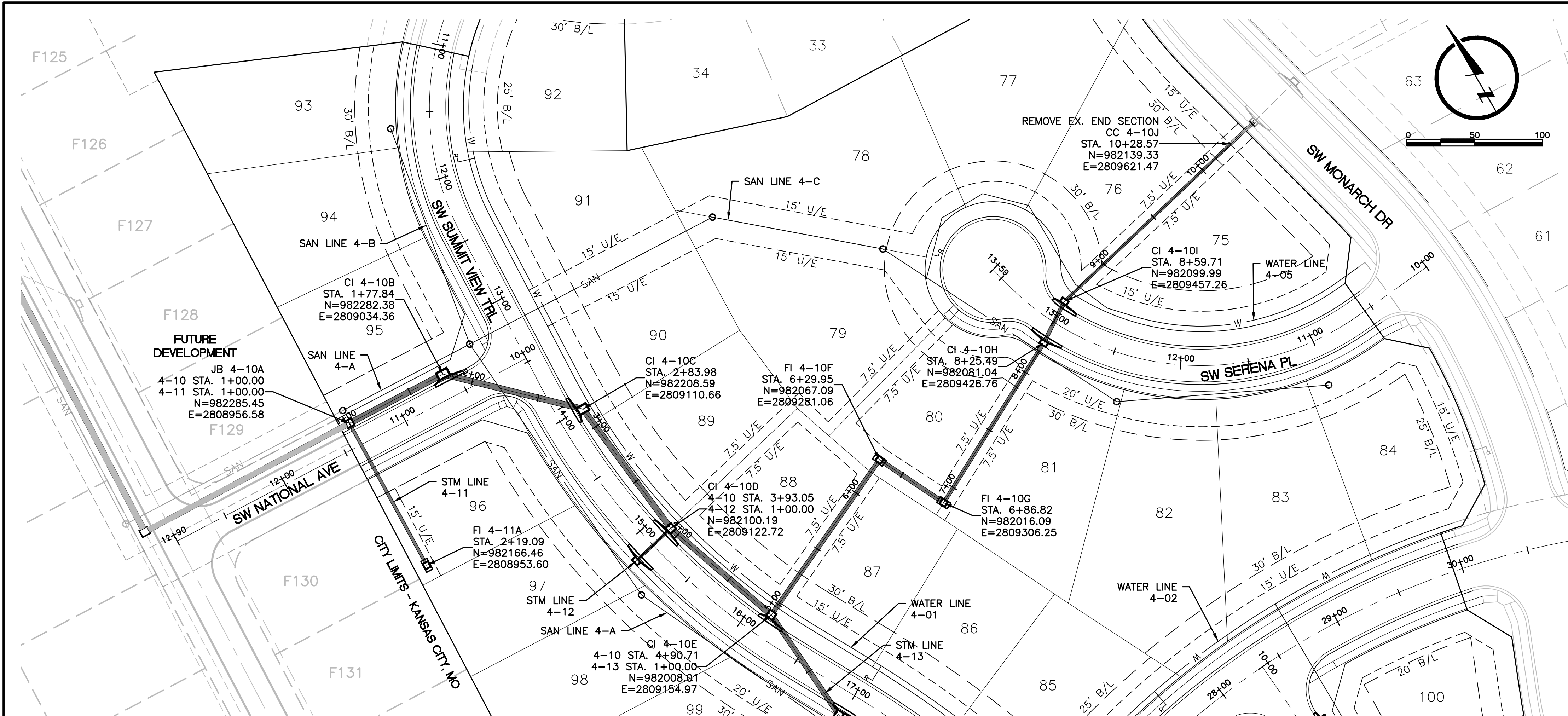
LAMP RYNEARSON MO CERT. NO. 2013011903	
01/07/2020	
MARK DANIEL MCGEEHE JR. PE - 2008019568	
REVISIONS	
01/07/2020	PER CITY COMMENTS
9001 State Line Rd., Ste. 200 Kansas City, MO 64114 816.361.0440 LampRynearson.com LAMP RYNEARSON	

LEE'S SUMMT, MISSOURI

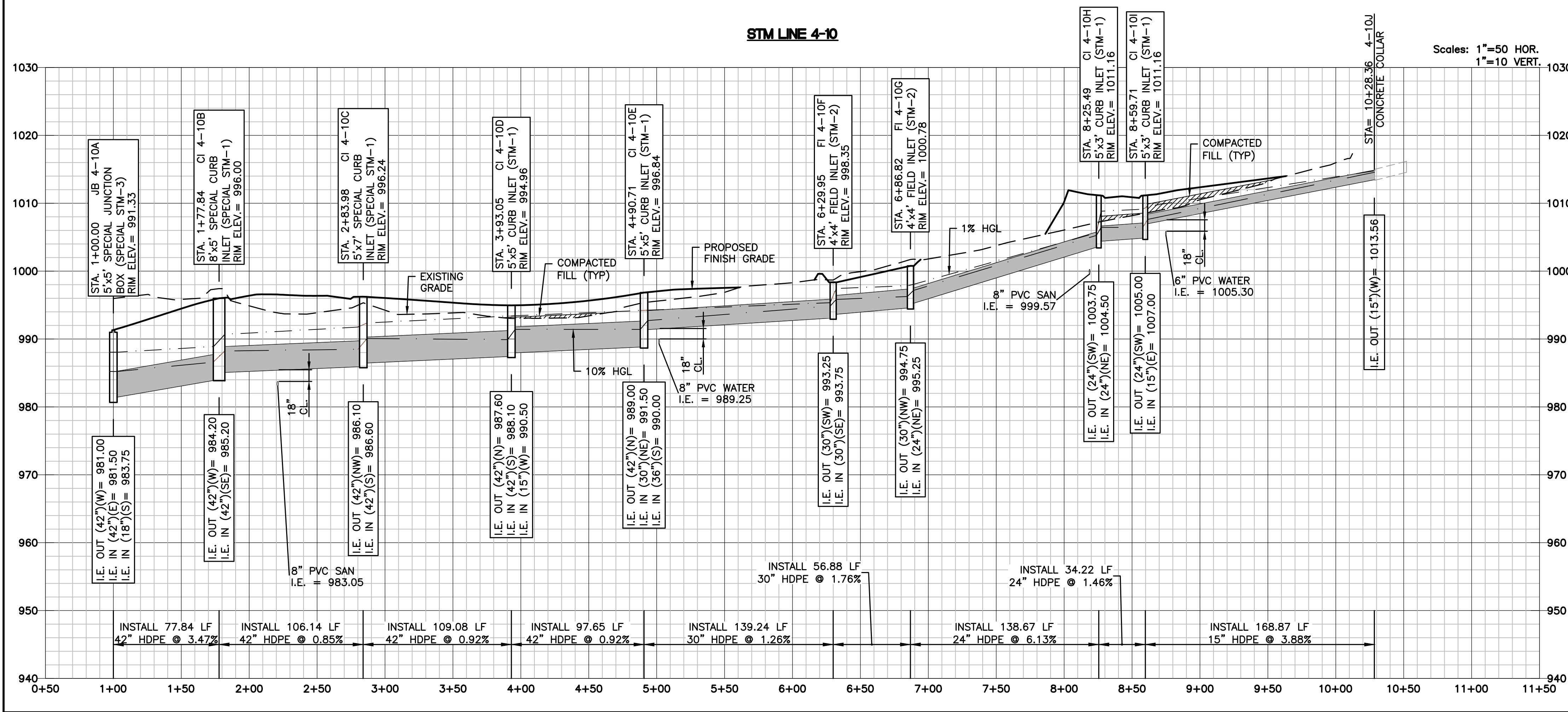
DRAINAGE CALCULATIONS

SHEET

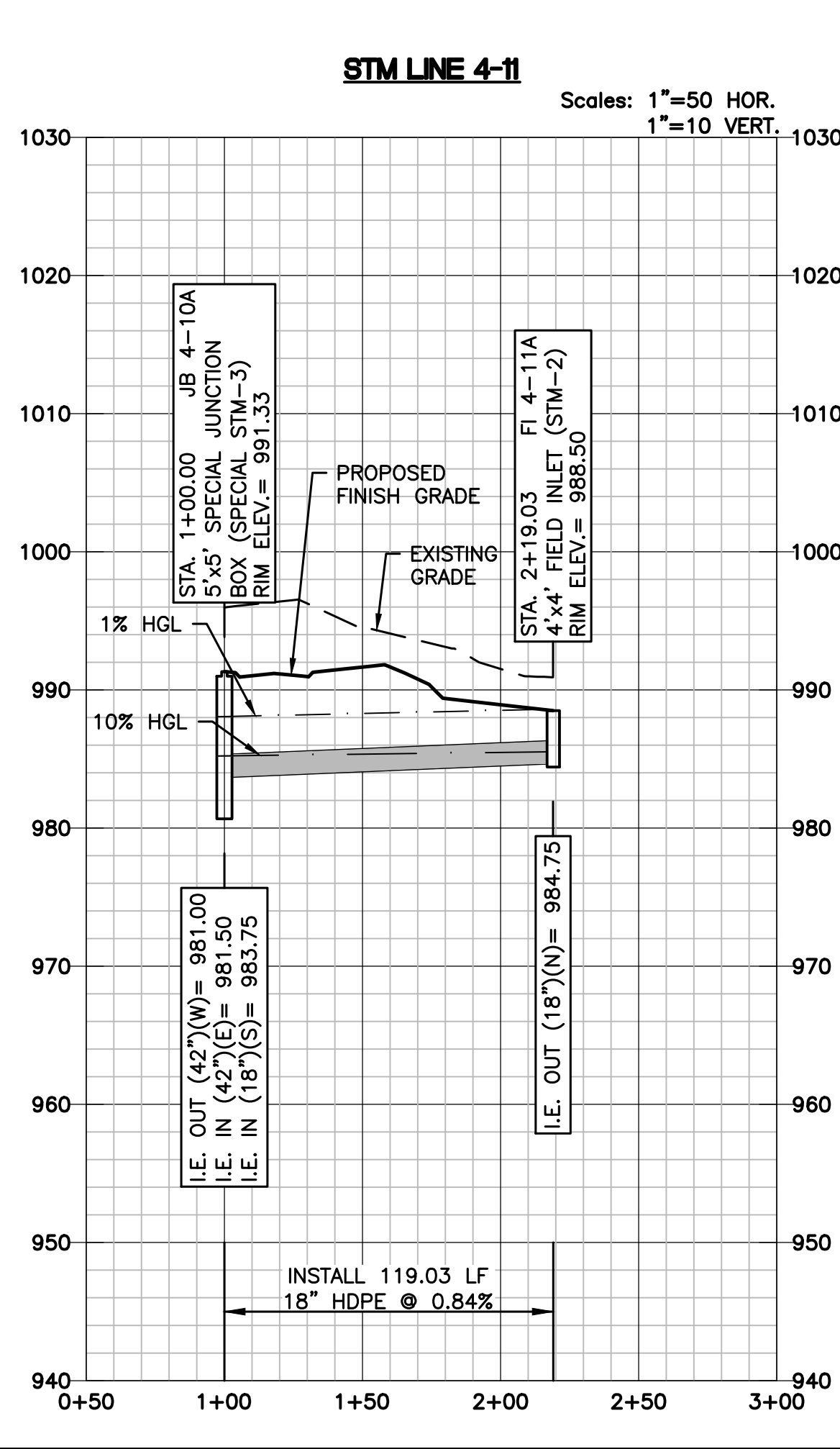
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STM LINE 4-10



STM LINE 4-11



STORM SEWER NOTES:

1. POLYPROPYLENE PIPE OR CONCRETE PIPE MAY BE USED IN LIEU OF HDPE PIPE. ALL PIPE SHALL MEET CITY SPECIFICATIONS (LEES SUMMIT SECTION 2600).
2. PROPOSED CURB INLETS SHALL CONFORM TO CITY STANDARD DETAIL STM-1 AND JUNCTION BOXES TO STM-3.
3. COORDINATES AND TOP ELEVATIONS SHOWN ARE LOCATED AT CENTER OF STRUCTURES. ROAD OFFSETS ARE AT INSIDE FACE OF CURB INLETS.
4. PIPE LENGTHS AND SLOPES ARE CALCULATED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
5. INSIDE FRONT FACE OF CURB INLETS SHALL BE LOCATED 1.5 FEET BEHIND BACK OF CURB. STRUCTURE SHALL BE PARALLEL WITH CURB ALIGNMENT AND TOP SHALL BE SLOPED TO CONFORM TO GRADE OF STREET.
6. WATER MAINS AND STORM SEWERS SHALL HAVE AT LEAST 5'-FT OF CLEAR HORIZONTAL SEPARATION.
7. COMPACTED FILL SHALL BE PLACED TO A MINIMUM 18" ABOVE THE TOP OF PIPE PRIOR TO INSTALLATION.

STORM SEWER STRUCTURE TABLE

STRUCTURE	STATION & OFFSET	INSIDE FACE TOP ELEVATION	STREET GRADE	STREET NAME
JB 4-10A	11+37.68, 18.00' RT	N/A	N/A	SW NATIONAL AVE
CI 4-10B	10+59.54, 15.67' RT	995.95	4.25%	SW NATIONAL AVE
CI 4-10C	14+00.60, 15.67' LT	996.17	1.40%	SW SUMMIT VIEW TRL
CI 4-10D	15+14.12, 15.50' LT	994.91	SUMP	SW SUMMIT VIEW TRL
CI 4-10E	16+15.59, 15.50' LT	996.79	3.80%	SW SUMMIT VIEW TRL
FI 4-10F	16+15.56, 157.24' LT	N/A	N/A	SW SUMMIT VIEW TRL
FI 4-10G	16+82.42, 155.50' LT	N/A	N/A	SW SUMMIT VIEW TRL
CI 4-10H	12+97.62, 15.50' LT	1011.13	SUMP	SW SERENA PL
CI 4-10I	13+01.50, 15.50' RT	1011.13	SUMP	SW SERENA PL
FI 4-11A	11+35.41, 101.01' LT	N/A	N/A	SW NATIONAL AVE

SUMMIT VIEW FARMS 4TH PLAT

MASS GRADING, EROSION CONTROL,
PAVING AND STORM SEWER PLANS
STORM SEWER PLAN/PROFILE
LINES 4-10 AND 4-11

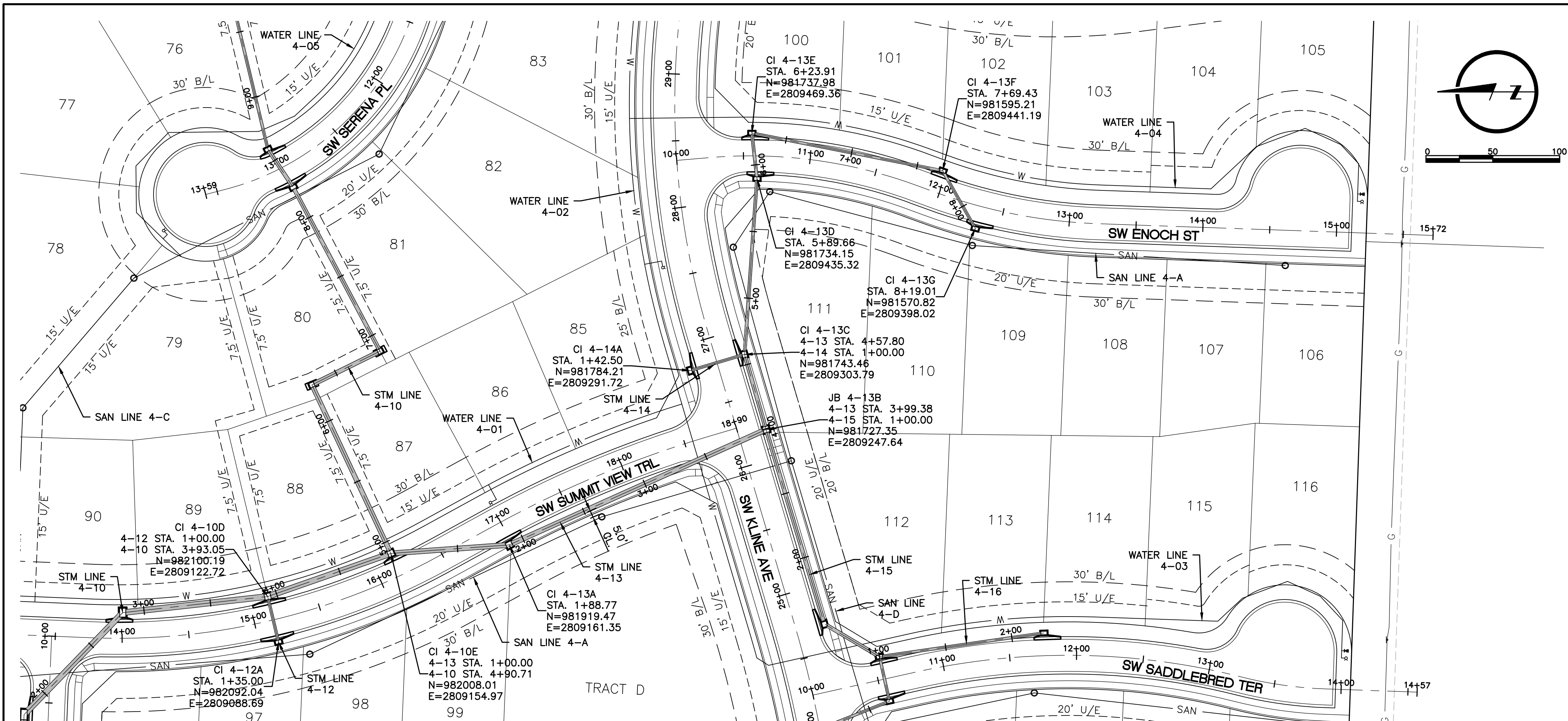
DESIGNER / DRAFTER
MDM/AJM
DATE
11/20/2019
PROJECT NUMBER
0318050.02
BOOK AND PAGE

SHEET

25 of 30

LAMP RYNEARSON
MO CERT. NO. 2013011903
STATE OF MISSOURI
MARK DANIEL MCGHEE JR.
REGISTERED PROFESSIONAL ENGINEER
NUMBER 7-2008019568
01/07/2020
MARK DANIEL MCGHEE JR.
PE - 2008019568
REVISIONS
01/07/2020 PER CITY COMMENTS
9001 State Line Rd., Ste. 200
Kansas City, MO 64114
816.361.0440
LampRynearson.com

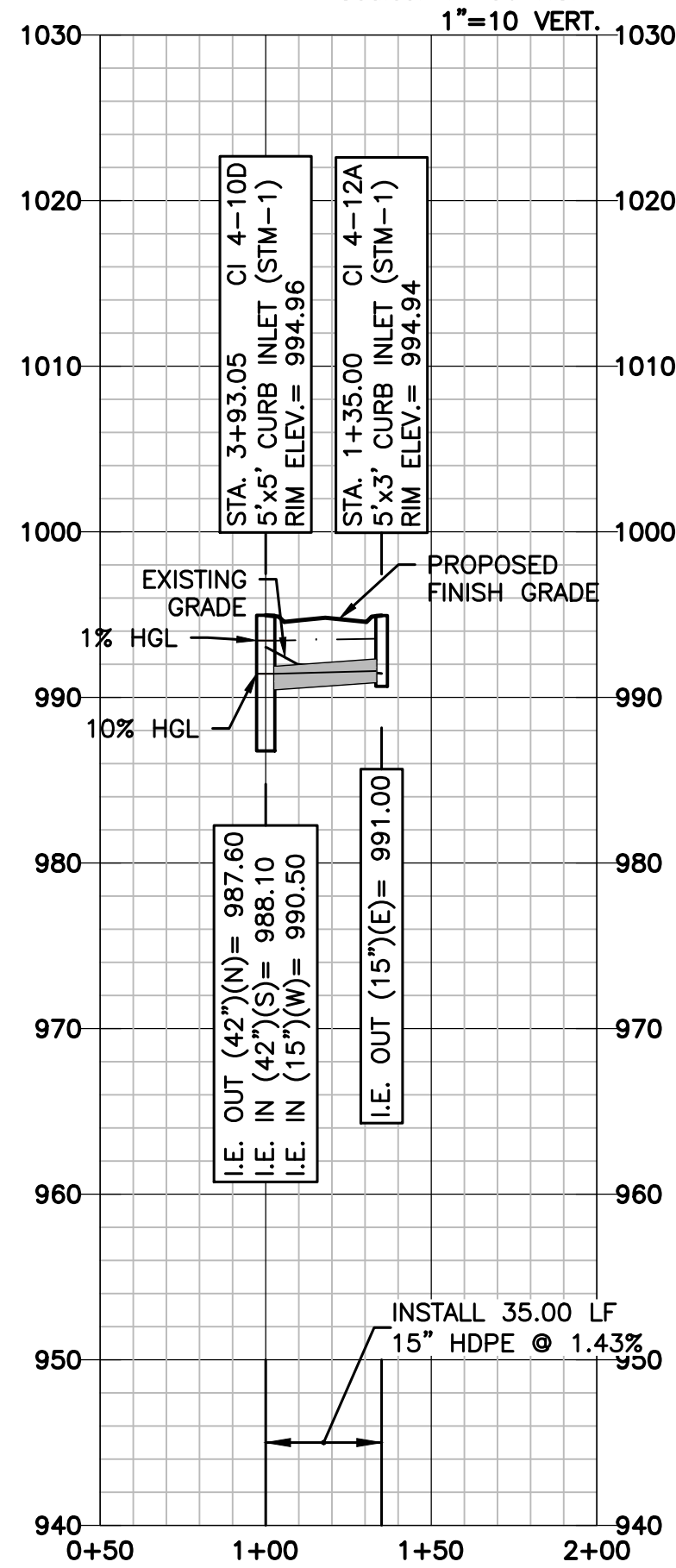
LAMP RYNEARSON



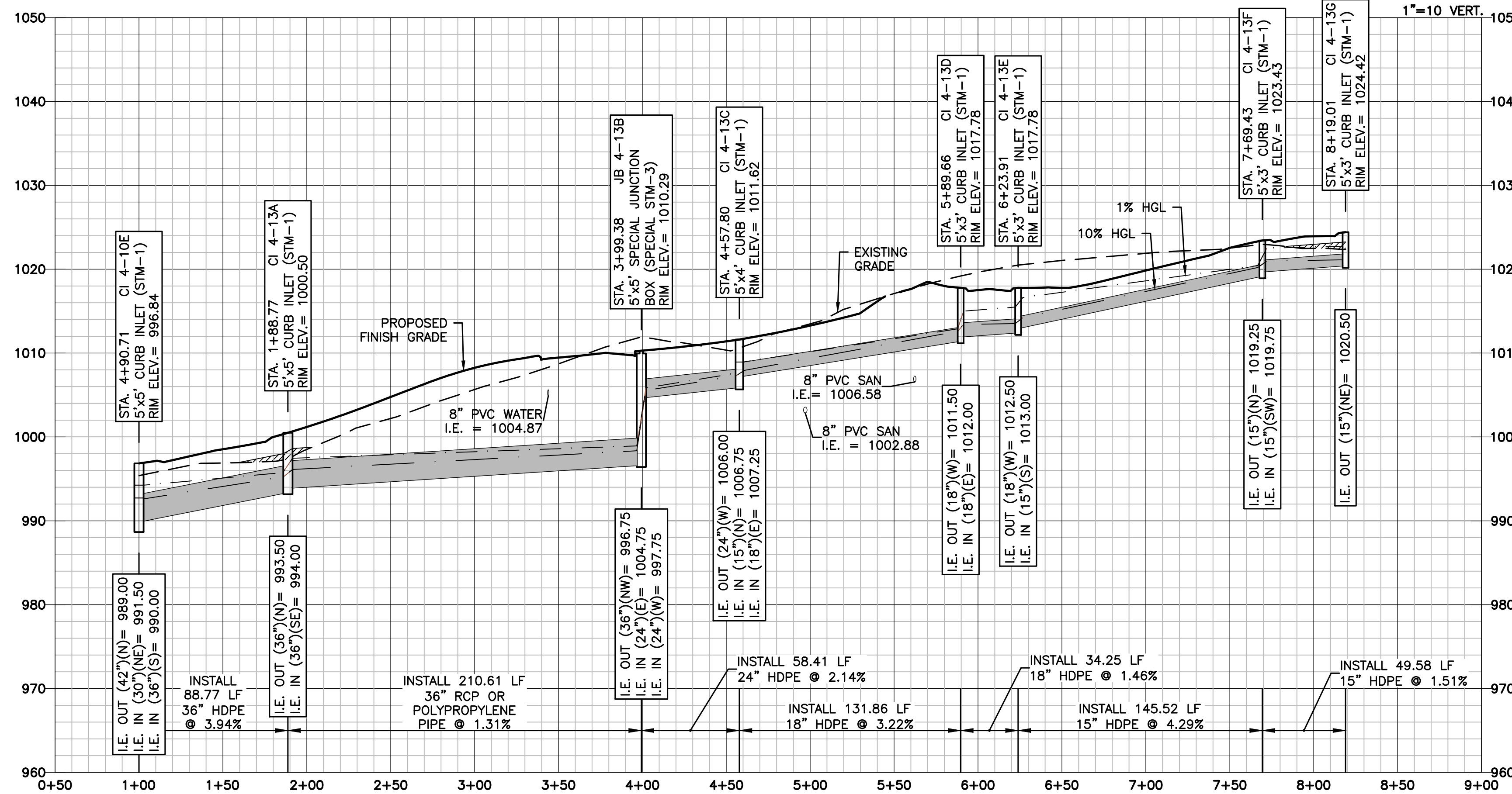
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STORM SEWER STRUCTURE TABLE				
STRUCTURE	STATION & OFFSET	INSIDE FACE TOP ELEVATION	STREET GRADE	STREET NAME
CI 4-12A	15+14.12, 15.50' RT	994.91	SUMP	SW SUMMIT VIEW TRL
CI 4-13A	16+97.49, 15.50' RT	1000.45	5.80%	SW SUMMIT VIEW TRL
JB 4-13B	26+22.30, 21.00' RT	1010.29	N/A	SW KLINE AVE
CI 4-13C	26+80.71, 19.50' RT	1011.58	2.80%	SW KLINE AVE
CI 4-13D	10+60.37, 15.50' RT	1019.54	4.20%	SW ENOCH ST
CI 4-13E	10+56.25, 15.50' LT	1019.38	3.80%	SW ENOCH ST
CI 4-13F	11+96.78, 15.50' LT	1023.63	2.20%	SW ENOCH ST
CI 4-13G	12+32.92, 15.50' RT	1024.39	2.00%	SW ENOCH ST
CI 4-14A	26+80.72, 19.50' LT	1011.58	3.00%	SW KLINE AVE

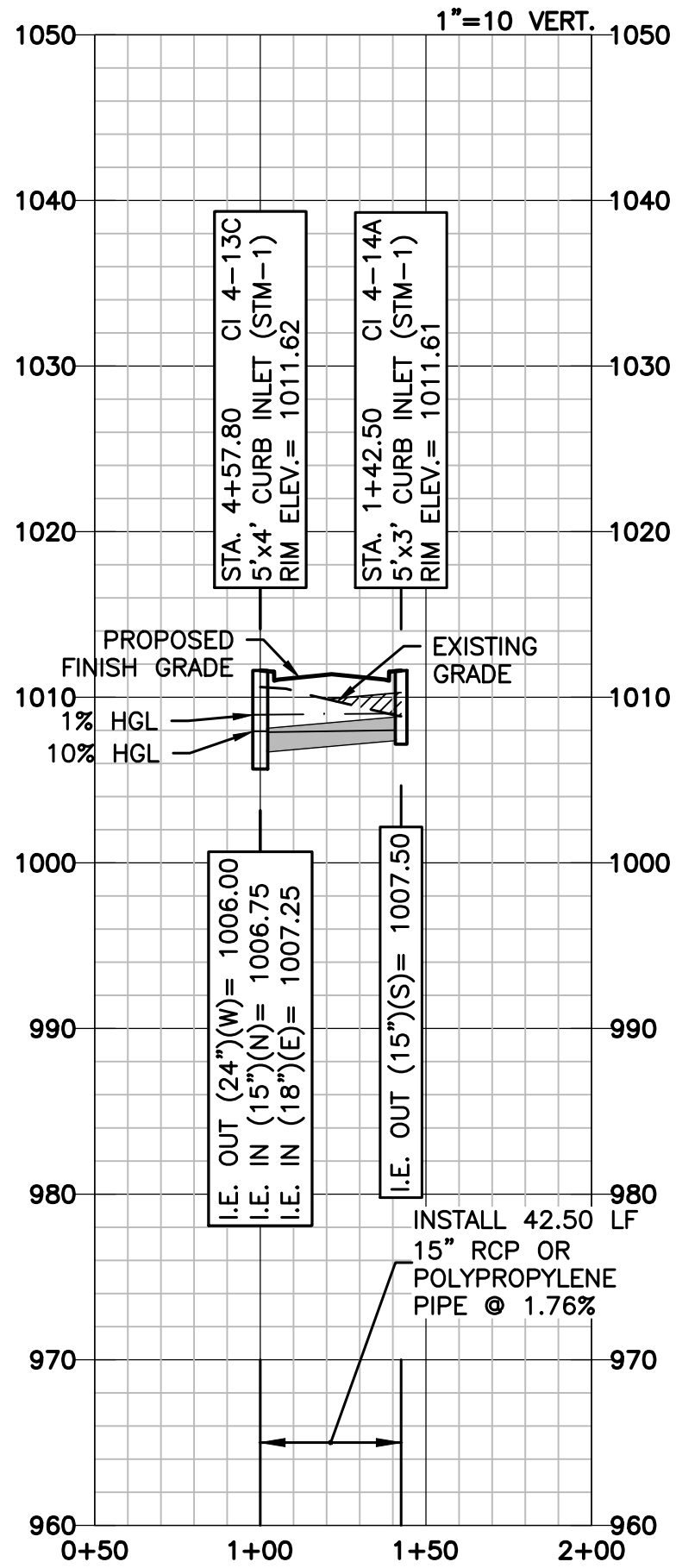
STM LINE 4-12
Scales: 1"=50 HOR.
1"=10 VERT.



STM LINE 4-13
Scales: 1"=50 HOR.
1"=10 VERT.



STM LINE 4-14
Scales: 1"=50 HOR.
1"=10 VERT.



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LAMP RYNEARSON
MO CERT. NO. 2013011903
01/07/2020
MARK DANIEL MCGHEE JR.
PE - 2008019568

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Kansas City, MO 64114
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LampRynearson.com

LAMP RYNEARSON

SUMMIT VIEW FARMS 4TH PLAT

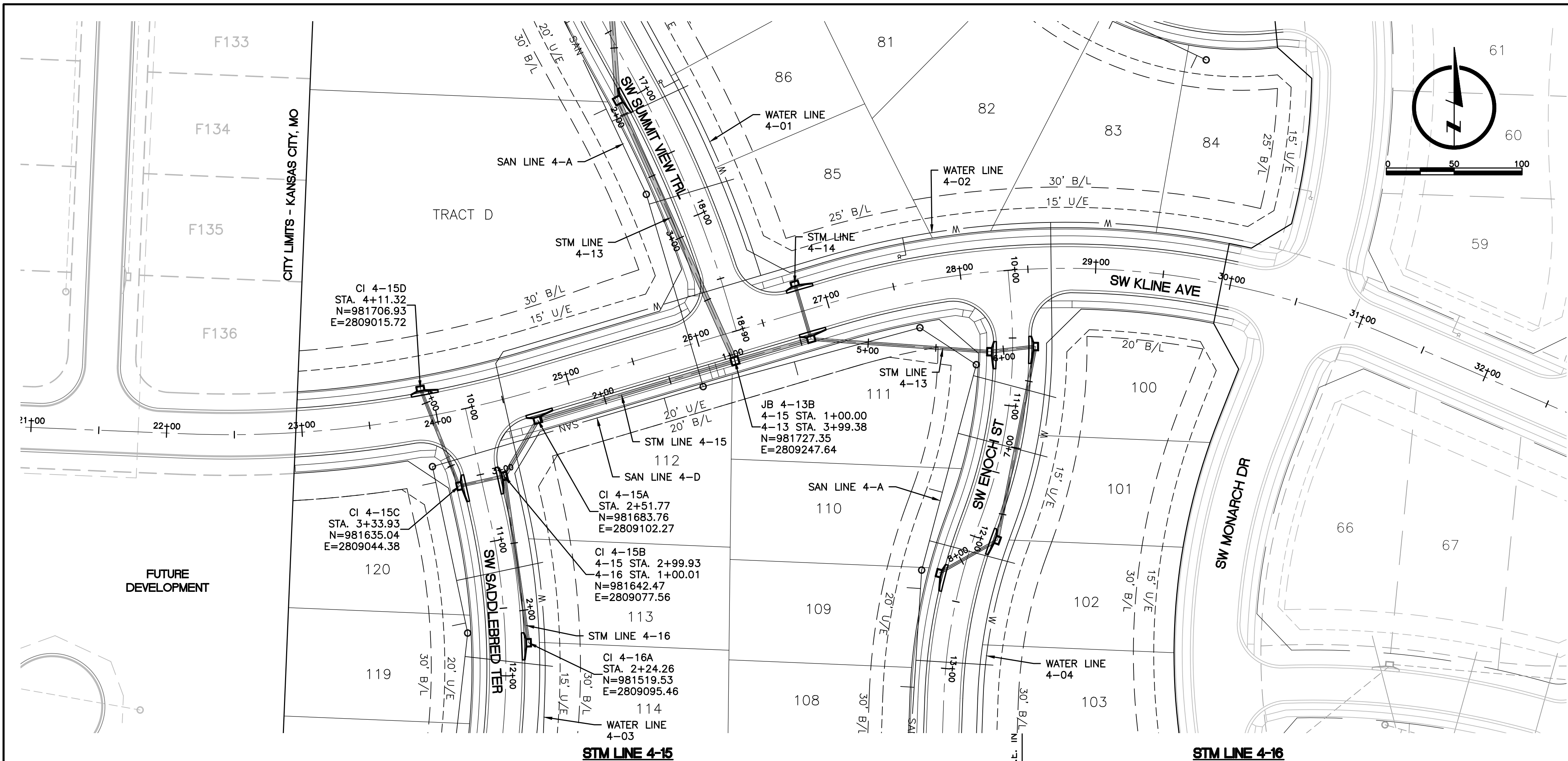
LEE'S SUMMIT, MISSOURI

MASS GRADING, EROSION CONTROL,
PAVING AND STORM SEWER PLANS
STORM SEWER PLAN/PROFILE
LINES 4-12, 4-13 AND 4-14

DESIGNER / DRAFTER
MDM/AJM
DATE
11/20/2019
PROJECT NUMBER
03180502
BOOK AND PAGE

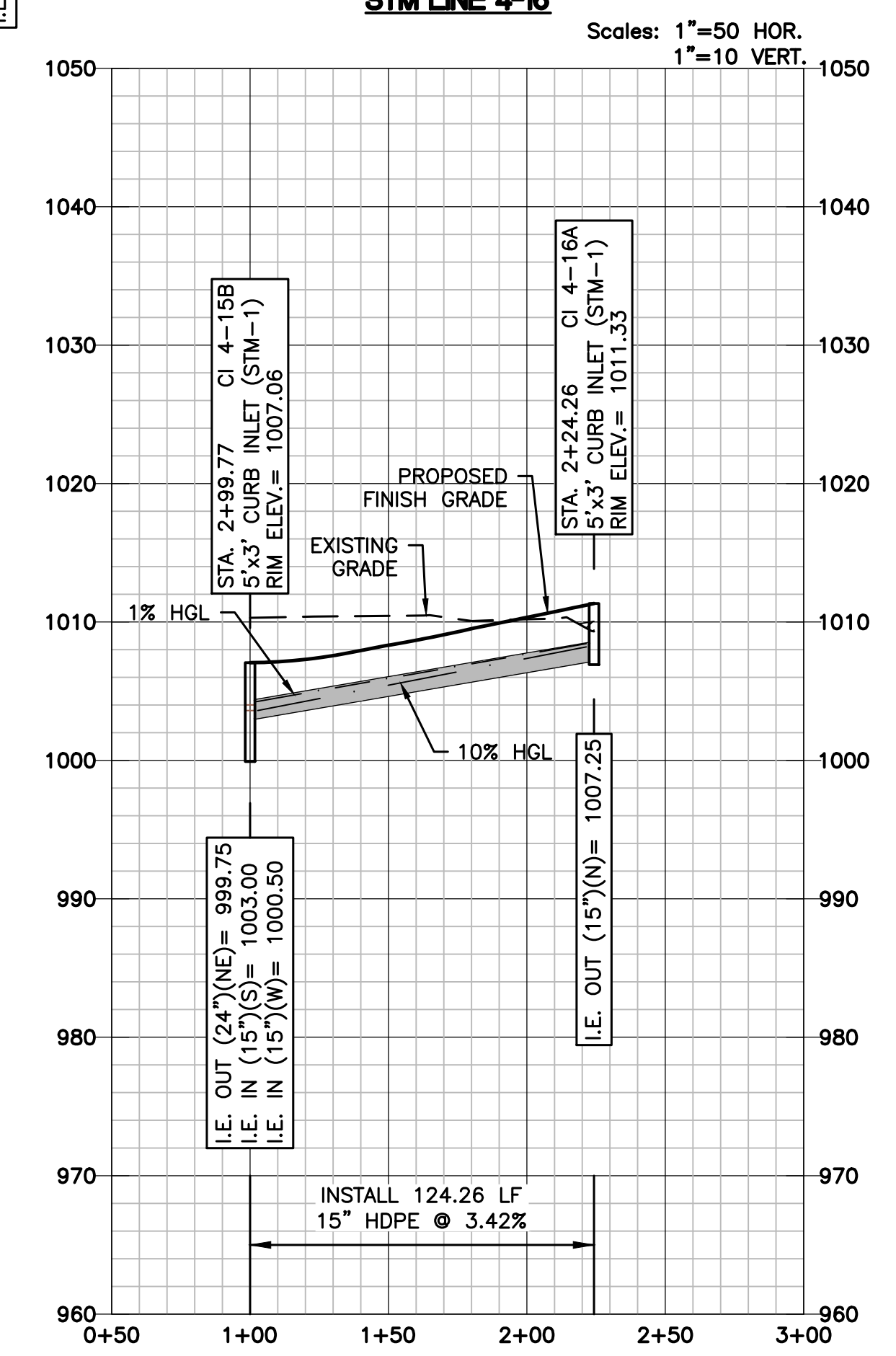
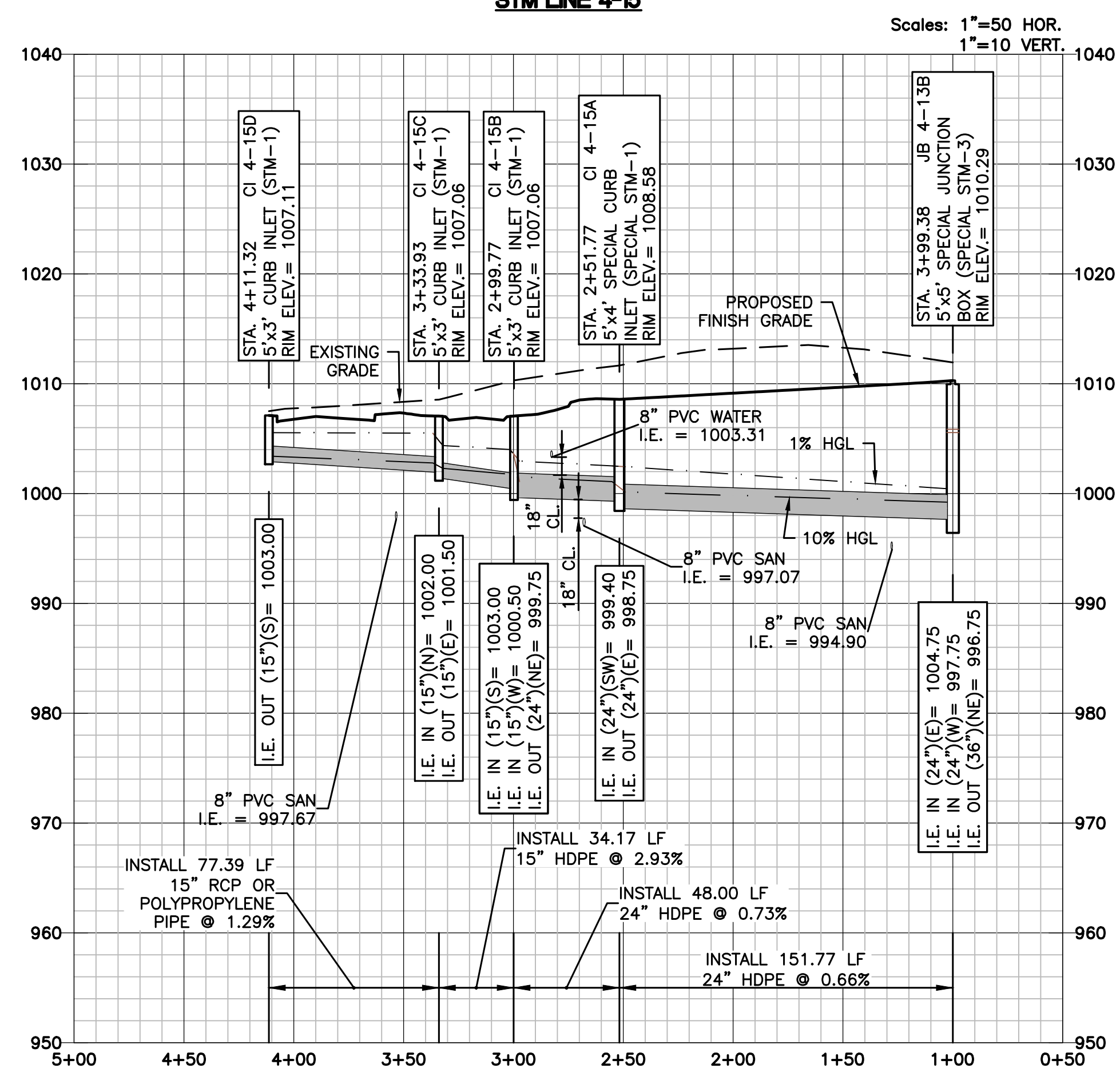
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26 of 30

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STORM SEWER STRUCTURE TABLE				
STRUCTURE	STATION & OFFSET	INSIDE FACE TOP ELEVATION	STREET GRADE	STREET NAME
CI 4-15A	24+70.68, 19.50' RT	1008.53	1.10%	SW KLINE AVE
CI 4-15B	10+54.86, 15.67' LT	1007.03	SUMP	SW SADDLEBRED TER
CI 4-15C	10+54.86, 15.50' RT	1007.03	SUMP	SW SADDLEBRED TER
CI 4-15D	23+91.77, 19.50' LT	1007.08	3.20%	SW KLINE AVE
CI 4-16A	11+76.16', 15.50' LT	1011.30	4.00%	SW SADDLEBRED TER



LAMP RYNEARSON
MO CERT. NO. 2013011903

01/07/2020
MARK DANIEL MCGHEE JR.
PE - 2008019568

REVISIONS
01/07/2020 PER CITY COMMENTS

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816.361.0440
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LAMP RYNEARSON

SUMMIT VIEW FARMS 4TH PLAT

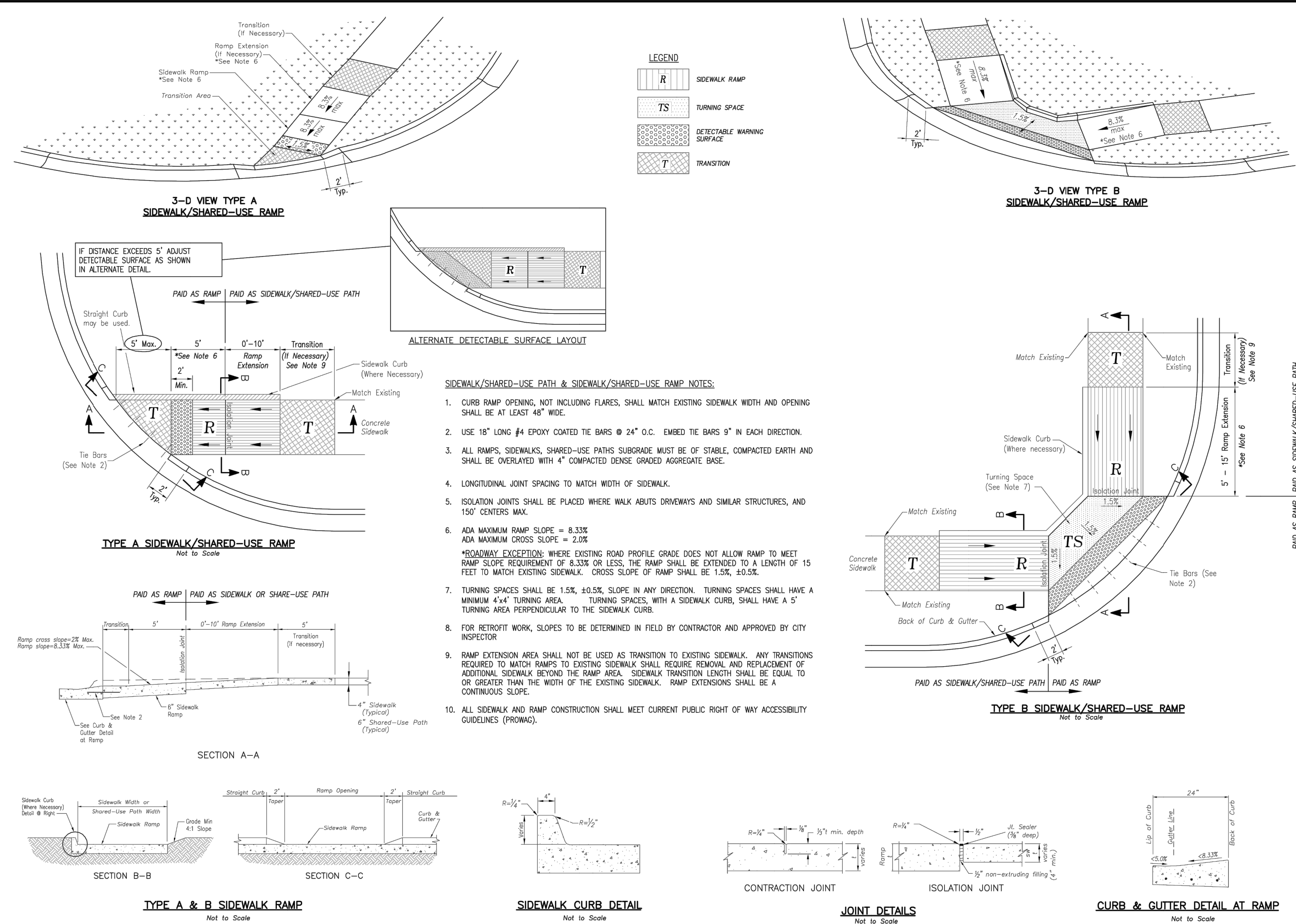
LEE'S SUMMIT, MISSOURI

MASS GRADING, EROSION CONTROL,
PAVING AND STORM SEWER PLANS
STORM SEWER PLAN/PROFILES
LINES 4-15 AND 4-16

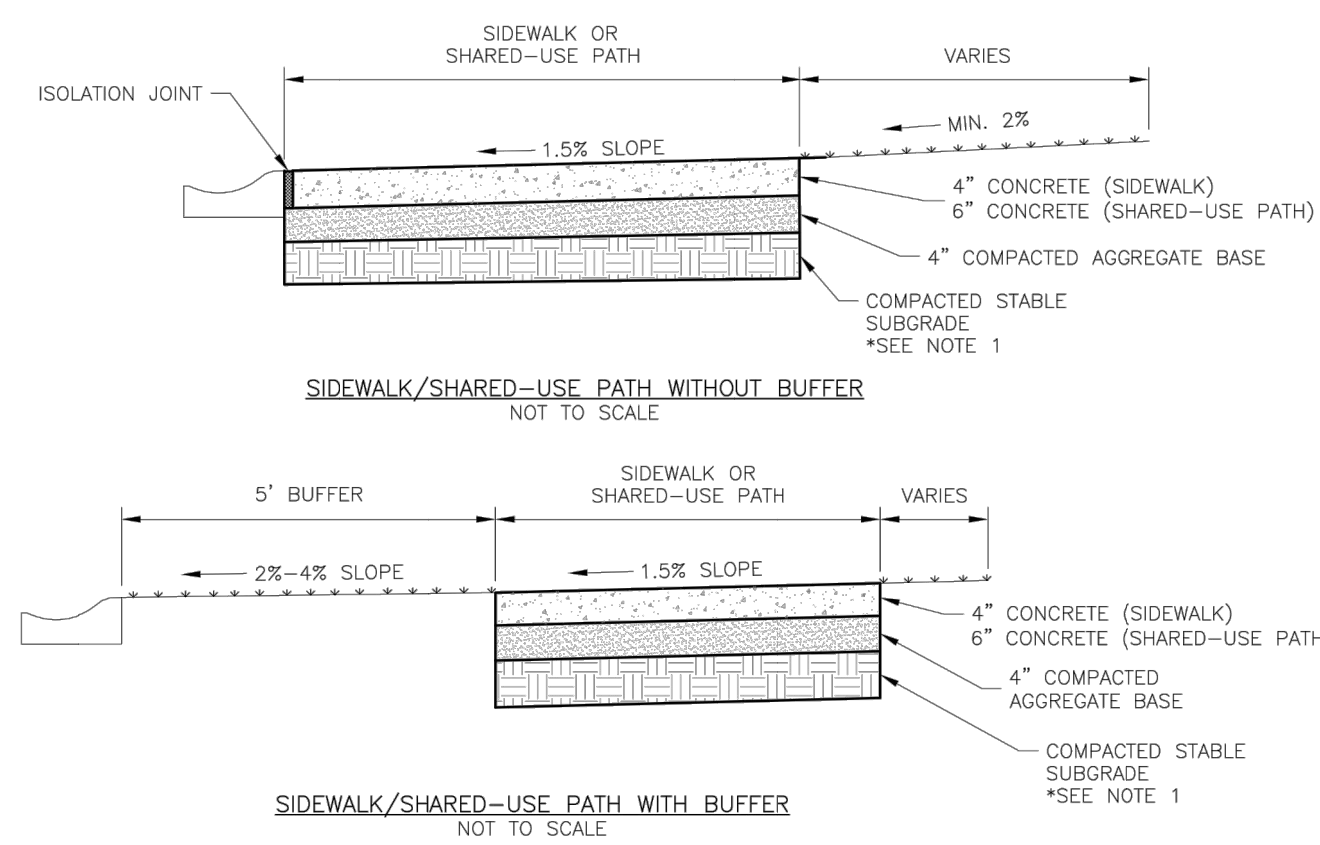
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PROJECT NUMBER
0318050.02
BOOK AND PAGE

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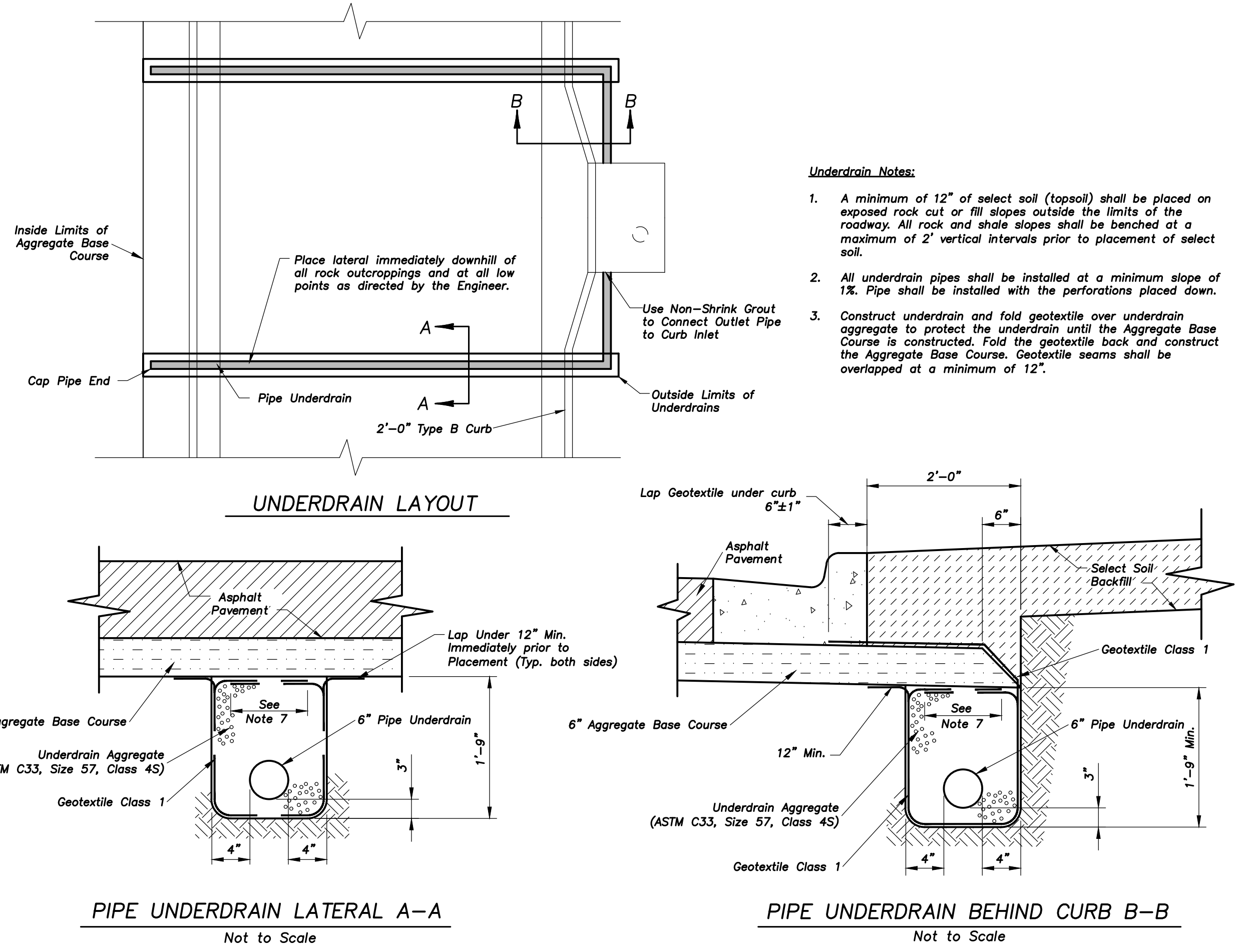
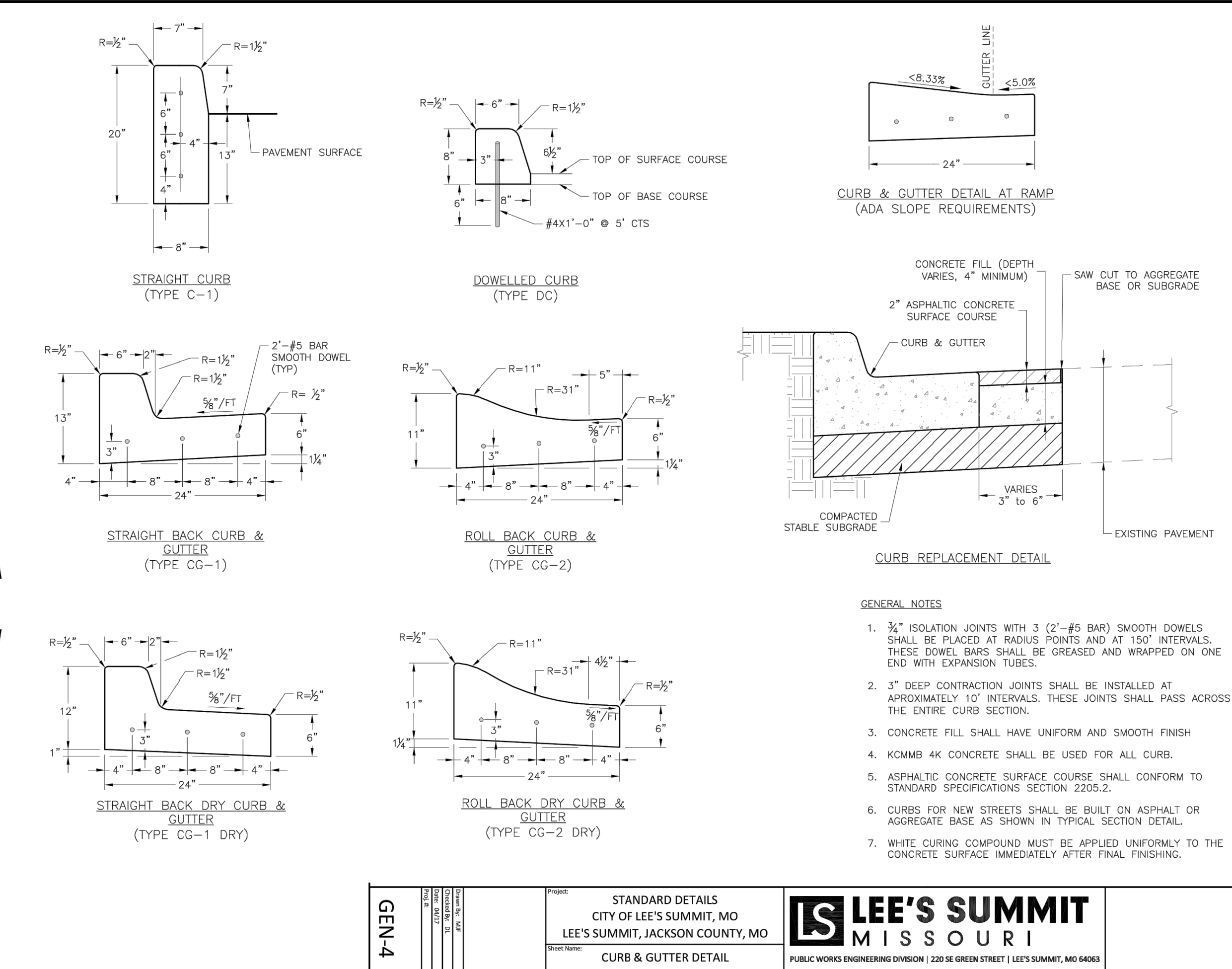
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	Sheet Name:	ADA RAMP RETROFIT DETAIL		
	Drawn By:	DL		
	Checked By:	DL		



	Date:	04/17	GEN-2
	Drawn By:	MIF	
	Checked By:	DL	
	Project:	SIDEWALK/SHARED-USE PATH DETAIL	



LAMP RYNEARSON

MO CERT. NO. 2013011903

01/07/2020

MARK DANIEL MCGHIE JR.

PE - 2008019568

REVISIONS

01/07/2020 PER CITY COMMENTS

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Kansas City, MO 64114
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LAMP RYNEARSON

LEE'S SUMMIT, MISSOURI

SUMMIT VIEW FARMS 4TH PLAT

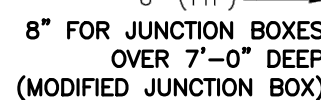
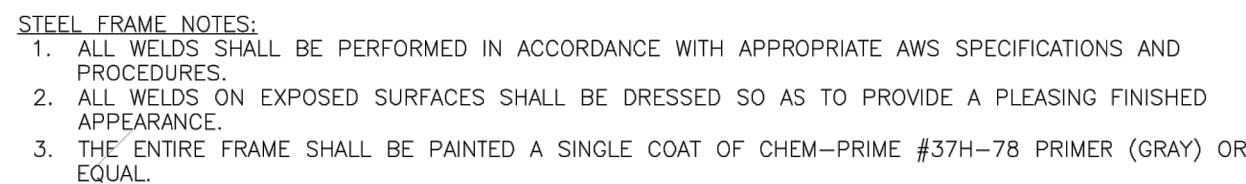
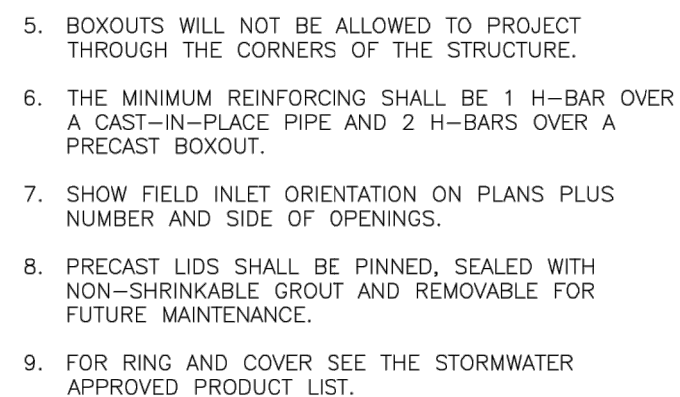
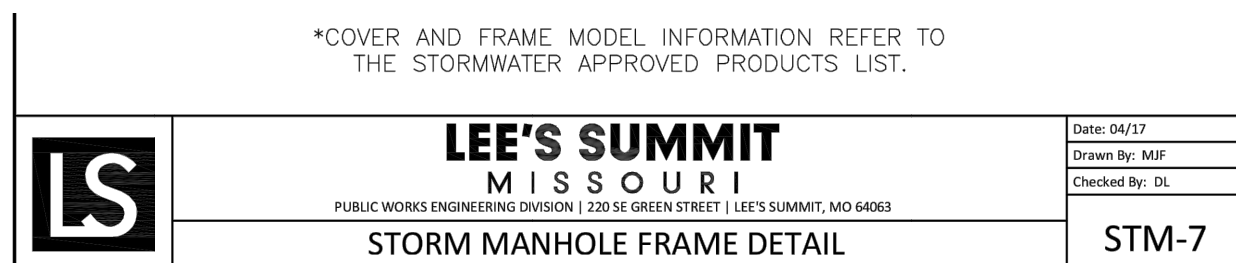
MASS GRADING, EROSION CONTROL,
PAVING AND STORM SEWER PLANS

DESIGNER / DRAFTER
MDM/AJM
DATE
11/20/2019
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0318050.02
BOOK AND PAGE

PAVING DETAILS

SHEET

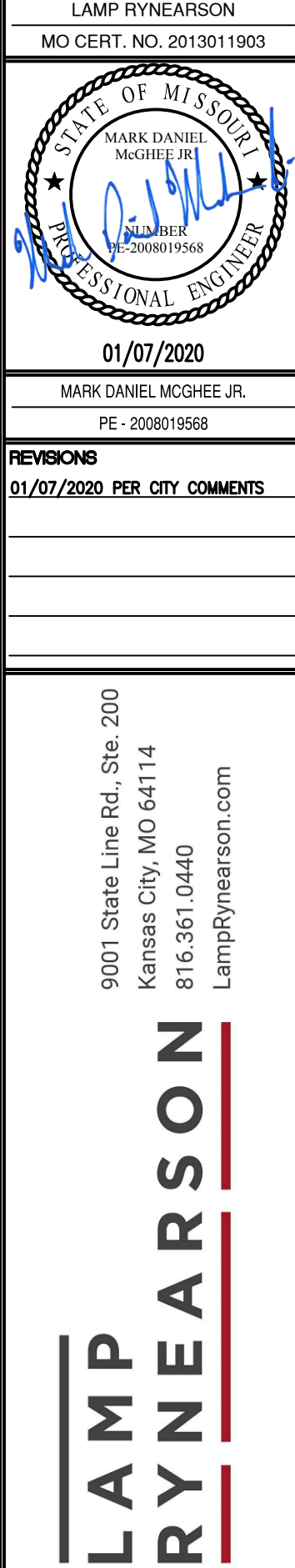
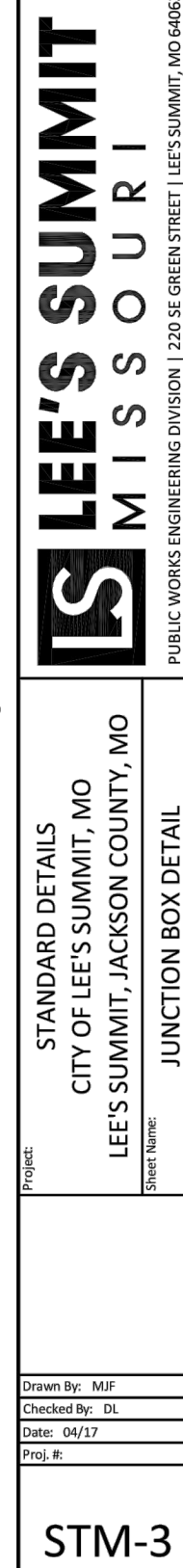
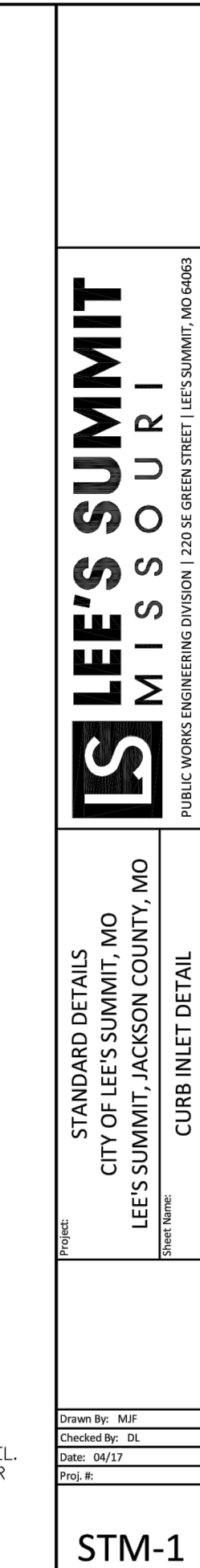
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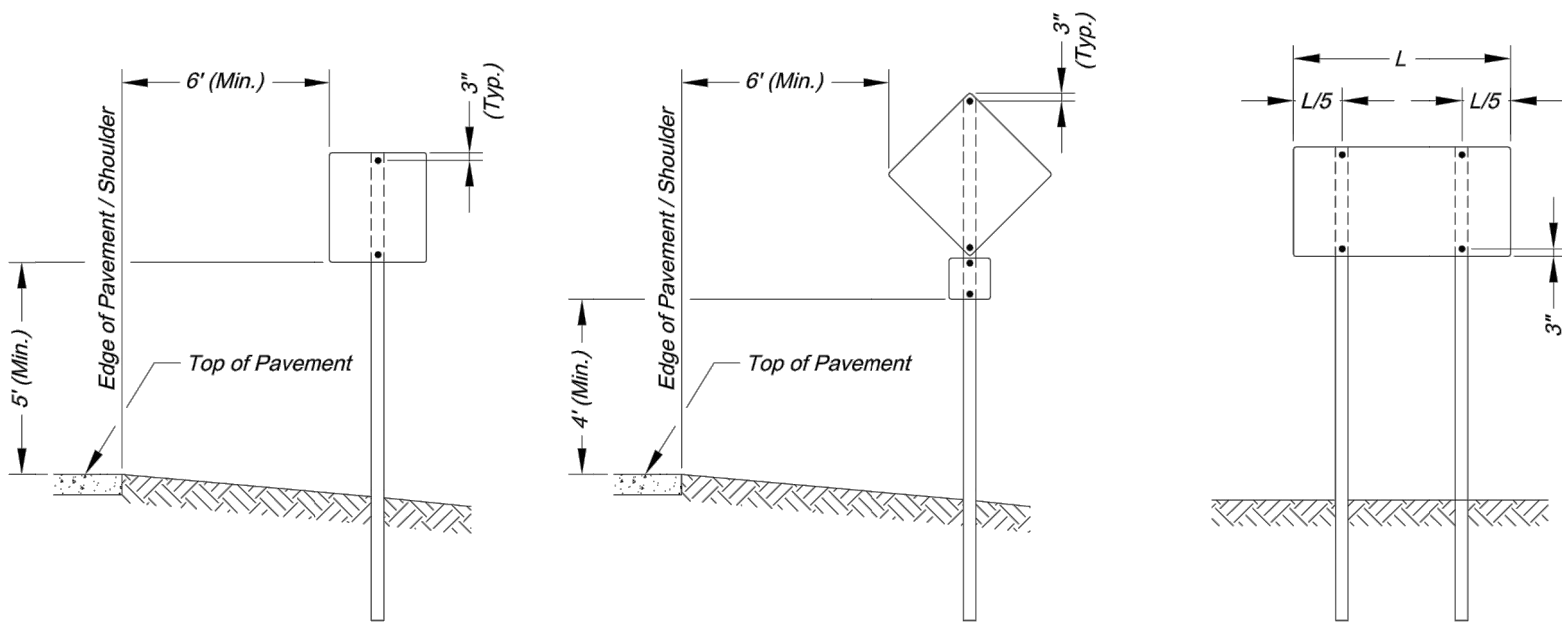


GENERAL NOTES:

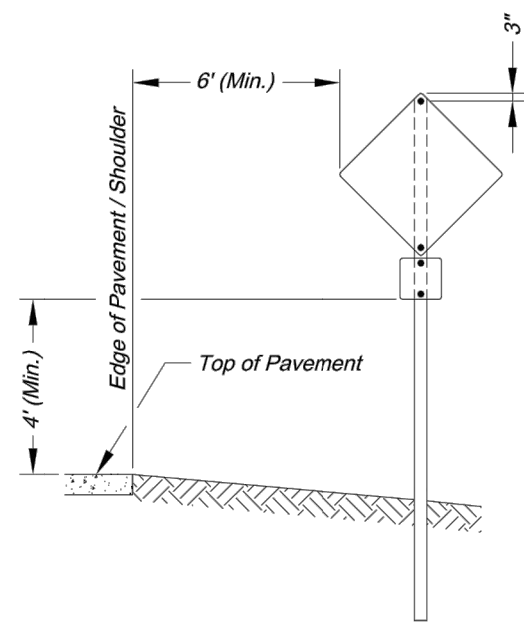
1. LOCATE RING AND COVER ON BLANK WALL.
2. USE $\frac{3}{4}$ " CHAMFER STRIP OR $\frac{1}{2}$ " R EDGER TOOL ON ALL EXPOSED CONCRETE CORNERS.
3. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF CASTING TO INVERT EXCEEDS 4' ON BLANK WALL IF POSSIBLE.

4. BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH THE CORNERS OF THE STRUCTURE, AND THE MINIMUM DISTANCE BETWEEN BOXOUTS IS 6".
5. THE MINIMUM REINFORCING SHALL BE 1 H-BAR OVER A CAST-IN-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.
10. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

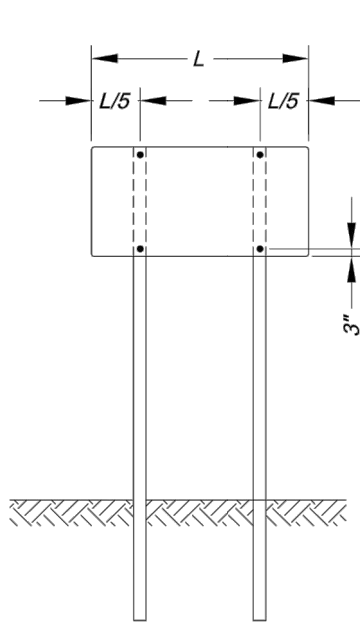




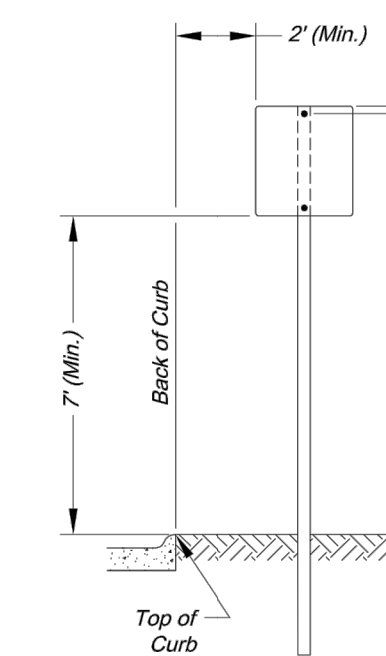
SIGN INSTALLATION FOR NON-CURBED STREET



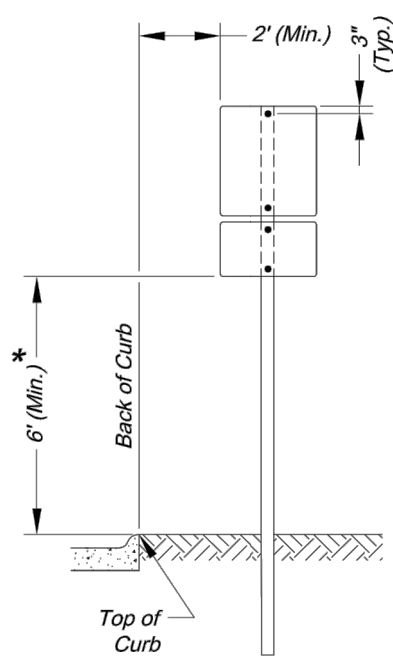
SIGN INSTALLATION WITH AUXILIARY SIGN FOR NON-CURBED STREET



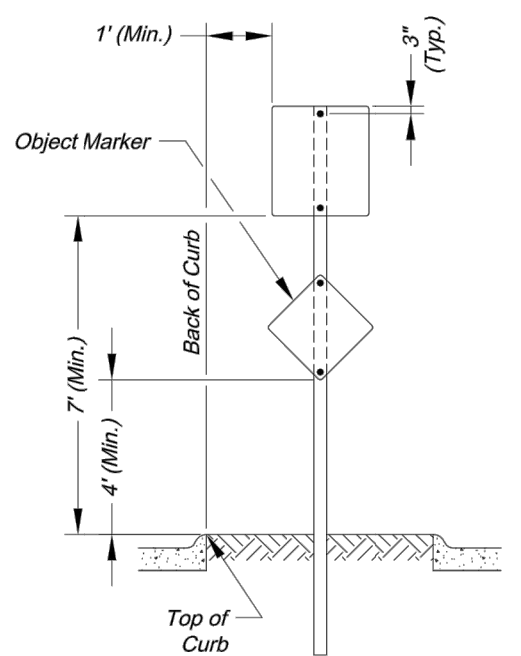
SIGN INSTALLATION WITH TWO SIGN POSTS



SIGN INSTALLATION FOR CURBED STREET



SIGN INSTALLATION WITH AUXILIARY SIGN FOR CURBED STREET



SIGN INSTALLATION FOR RAISED MEDIANS

SIGN MOUNTING DETAILS

* The height to the bottom of a sign when it is located in a pedestrian walkway or extends into a walkway shall be a minimum of 80 inches above the walkway.

- NOTE:
1. Generally, the sign mounting height should not be more than 1' greater than the minimum mounting height.

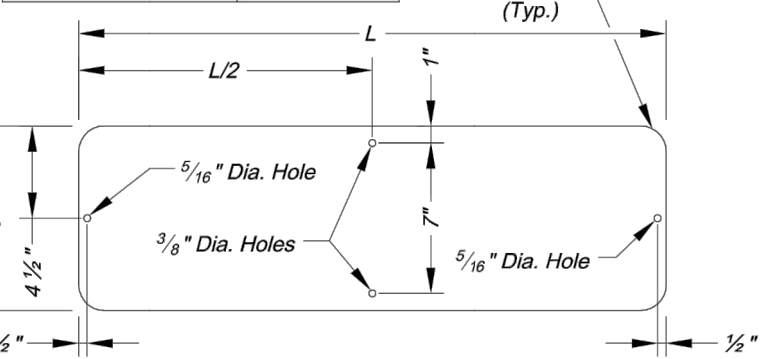
STANDARD ABBREVIATION LISTS

Named Streets	
Avenue	AVE
Boulevard	BLVD
Circle	CIR
Creek	CR
Court	CT
Crossing	XING
Drive	DR
Highway	HWY
Lane	LN
Parkway	PKWY
Place	PL
Road	RD
Street	ST
Terrace	TER
Trail	TRL
Way	WAY

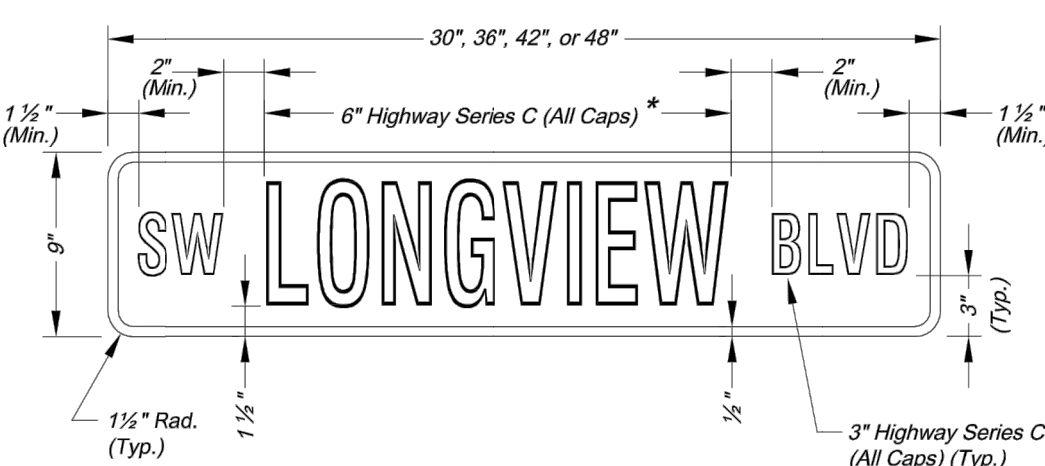
Numbered Streets	
First	ST
Second	ND
Third	RD
Fourth to Tenth	TH

STREET NAME SIGN QUANTITIES

Sign Designation	Sign Size	Sign Area (Sq. Ft.)	Number	Quantity (Sq. Ft.)
D3-1 (SP-1)	9" x 9"	Sq. Ft.	1	1
D3-1 (SP-2)	9" x 9"			
D3-1 (SP-3)	9" x 9"			
D3-1 (SP-4)	9" x 9"			
D3-1 (SP-5)	9" x 9"			
D3-1 (SP-6)	9" x 9"			



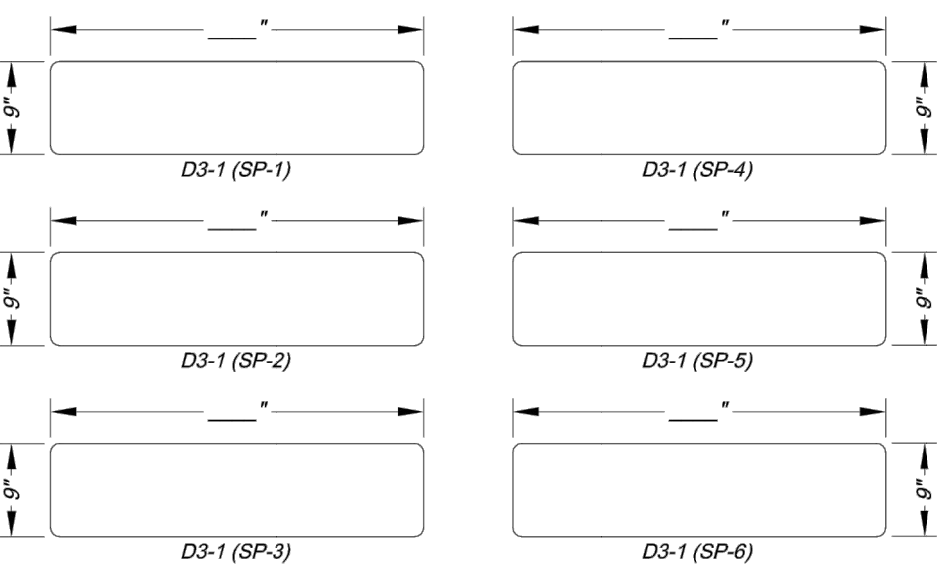
STREET NAME SIGN BLANK DETAILS For Mounting on Square Steel Posts



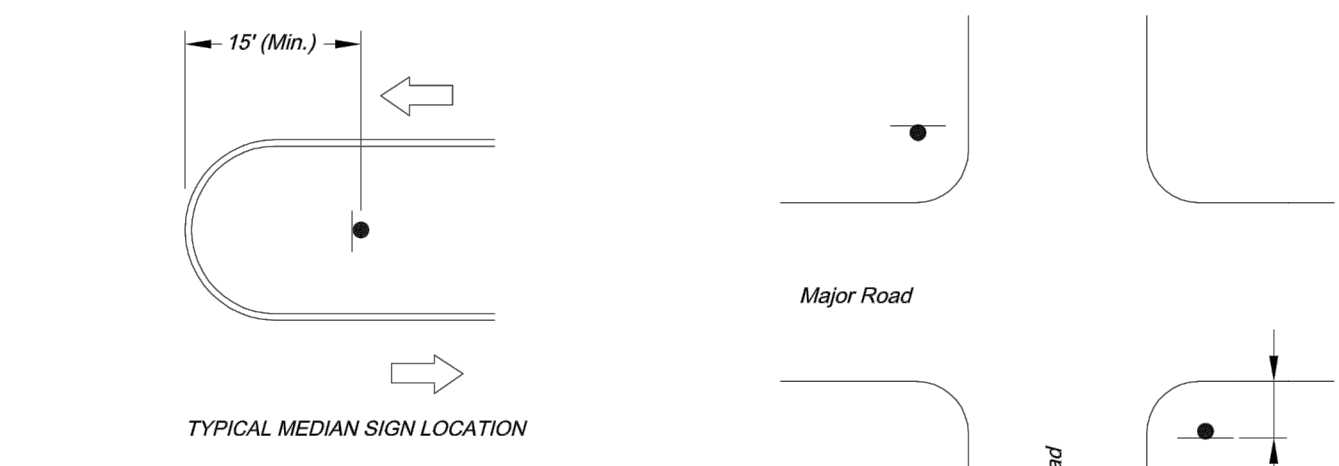
NAMED STREET NAME SIGN DETAIL

* Use Highway Series B (All Caps) in lieu of series C if necessary to fit text on a 36" sign blank.

PROJECT SIGN DETAILS

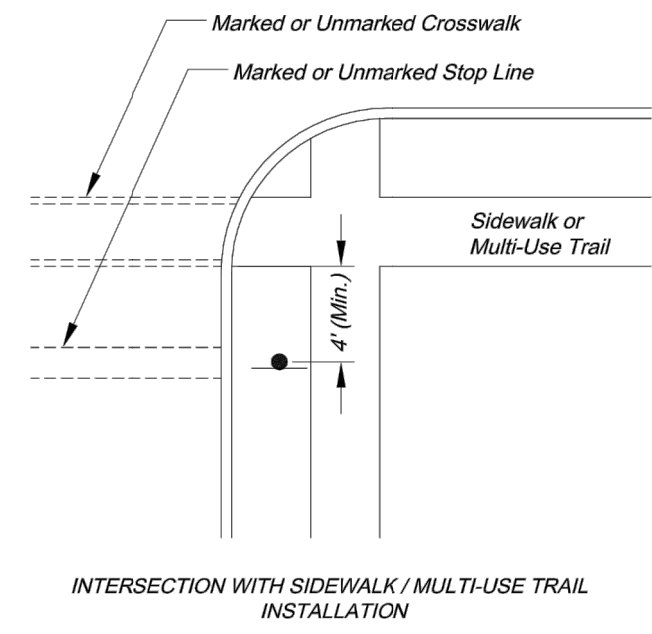


ARROW DETAIL

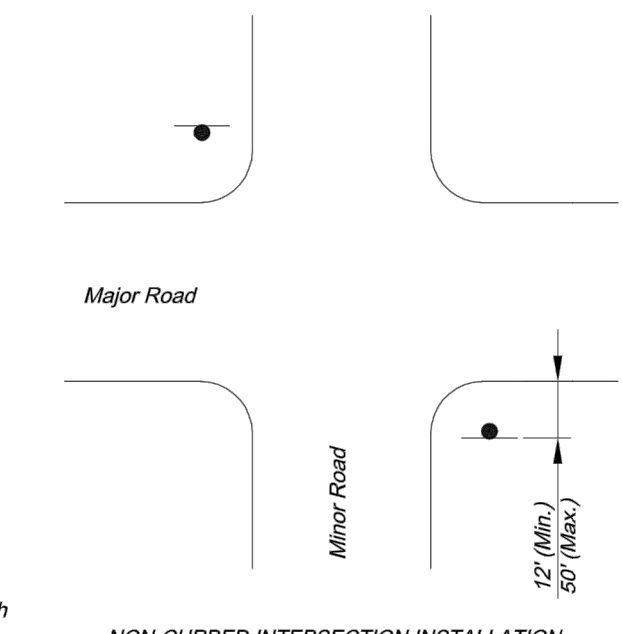


MEDIAN SIGN LOCATION

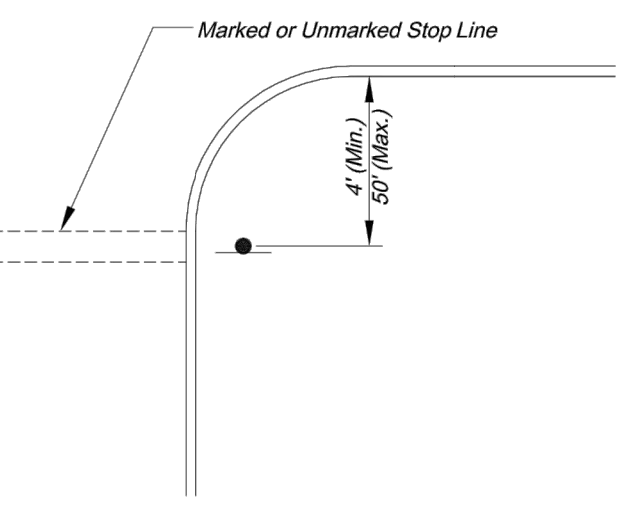
- NOTES:
1. A 4" P.V.C. sleeve shall be installed in new concrete medians at each location where a sign is to be installed.
 2. For existing concrete medians, a 4" hole shall be cored into the concrete.



INTERSECTION WITH SIDEWALK / MULTI-USE TRAIL INSTALLATION

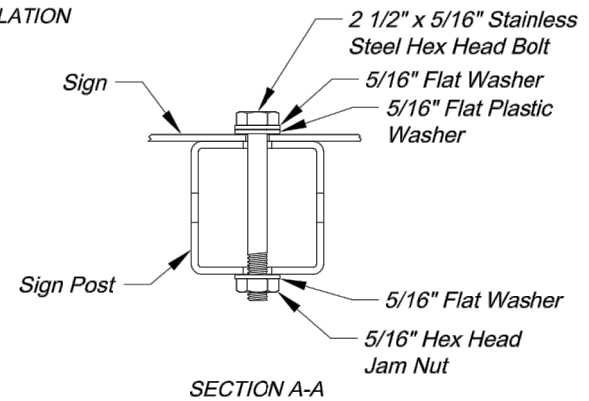


NON-CURBED INTERSECTION INSTALLATION

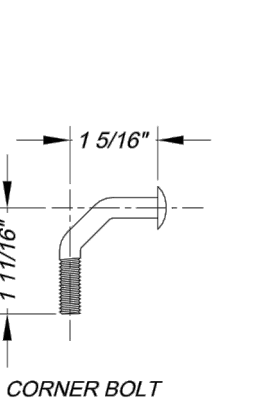


CURBED INTERSECTION INSTALLATION

CONTROL SIGN LOCATION



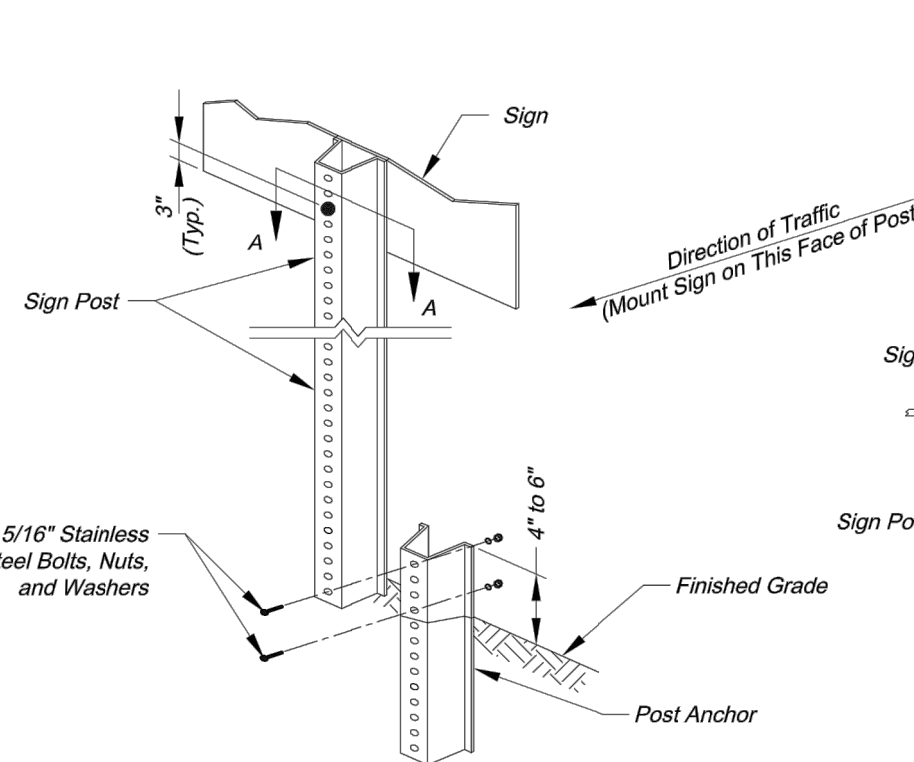
SECTION A-A



CORNER BOLT

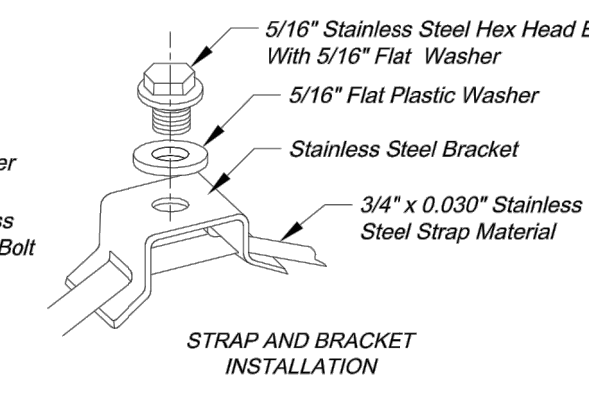
SQUARE STEEL POST DETAILS

- SQUARE STEEL POST NOTES:
1. Square steel sign posts and break-away anchor shall consist of the following materials:
Sign Post - 14 Ga. 2" x 2" Square Steel Post
Post Anchor - 12 Ga. 2 1/4" x 2 1/4" x 36" Square Steel Post
Anchor Sleeve - 12 Ga. 2 1/4" x 2 1/2" x 18" Square Steel Post
 2. 14 Gauge posts must meet a certified minimum yield strength of 60,000 psi.
 3. In all installations the first hole above the finished grade line on the sign post, anchor, and anchor sleeve must be in line for the insertion of the corner bolt.
 4. The maximum area for one sign post is 9.0 square feet. A sign or combination of signs with an area greater than 9.0 square feet will require two posts. Also, signs with a width greater than 36" (not including 36" x 36" diamond shaped signs) will require two posts.



U-STEEL POST DETAILS

- U-STEEL POST NOTES:
1. Splice shall be positioned entirely between finished grade line and 18" above finished grade line. Only one splice will be allowed per post.
 2. U-Steel post shall be 3 lb./ft., galvanized according to ASTM A123.
 3. U-Steel post can be used for installation of signs with an area of less than 2.5 square feet.
 4. All posts shall be embedded a minimum of 3 feet.

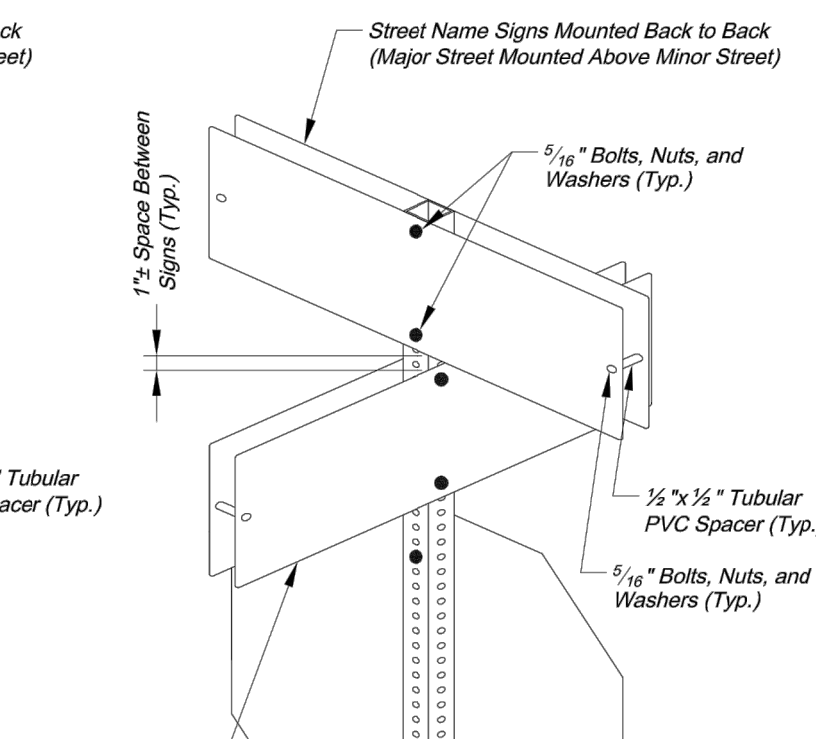
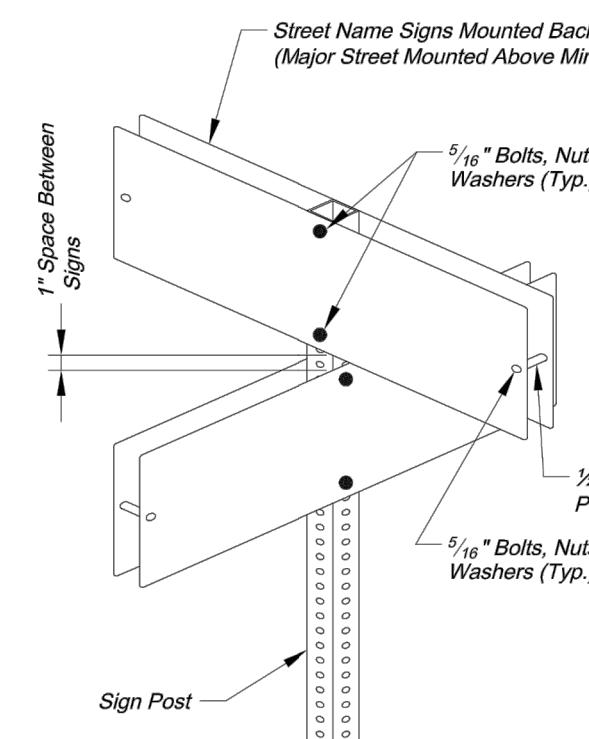


STRAP AND BRACKET INSTALLATION

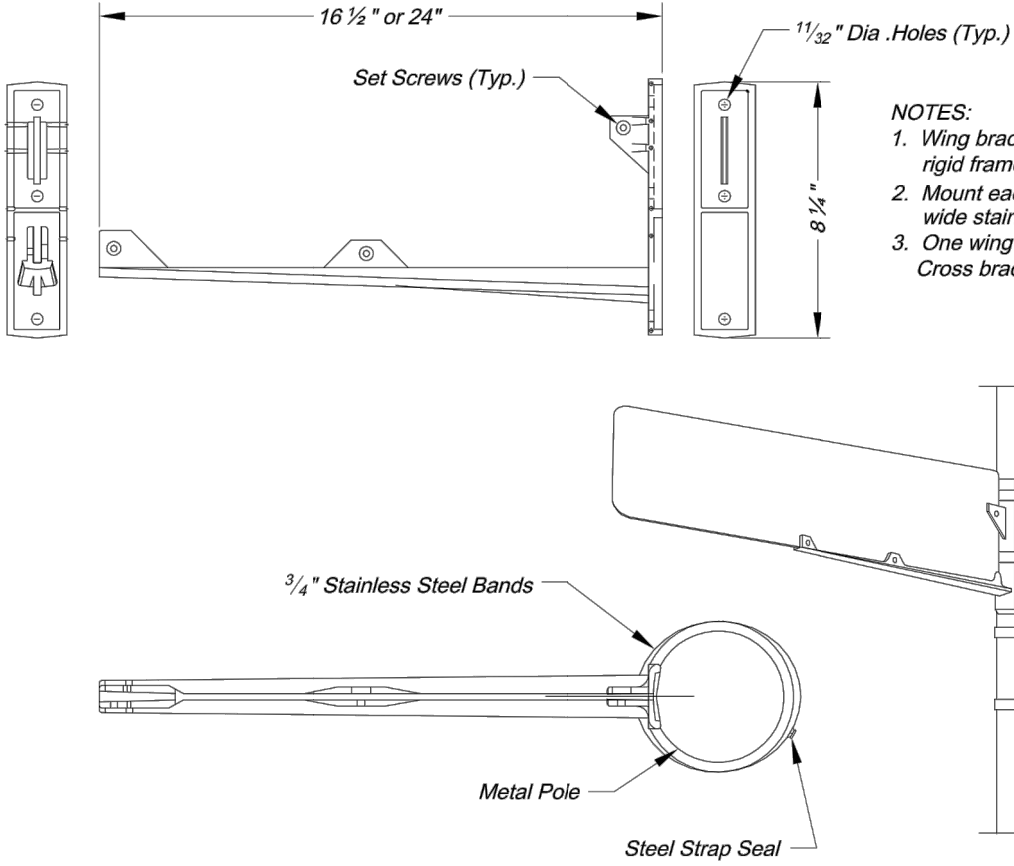
STRAP TYPE SIGN SUPPORT DETAILS

- METAL POLE SIGN MOUNTING NOTES:
1. Signs on metal poles shall be attached with two brackets and stainless steel bands.
 2. Holes in sign for attachment to the mounting brackets shall be offset a minimum of 2 inches from the edge of the sign.
 3. Holes in sign shall be located such that the sign is level.
 4. All strap, bracket, and seal materials should be Type 201 stainless steel.

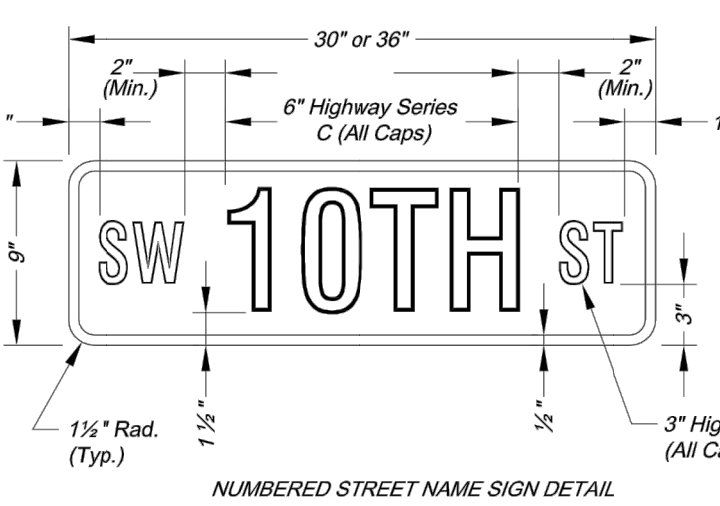
- PERMANENT SIGNING GENERAL NOTES:
1. All signing shall be in accordance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
 2. The Contractor is responsible for avoiding any and all utilities when installing sign posts, whether the utility is indicated on the plans or not.
 3. All workmanship and materials shall be subject to the inspection and approval of the Public Works Department of the City of Lee's Summit.
 4. The Contractor shall stake the location of all sign posts to be installed. The City Inspector shall inspect the staking prior to installation. Minor relocation to avoid conflicts may be allowed with the approval of the City Traffic Engineer or designee.
 5. Signs shown to be installed on the side of metal poles shall be mounted with stainless steel straps or wing brackets as detailed. No signs are to be installed on wood poles. See Traffic Signal Standard Drawings for the installation of signs on mast arms.
 6. All post mounted signs shall be installed with breakaway anchors according to the Standard Drawings.
 7. All existing signs will be used in place during construction and protected from damage unless otherwise indicated in the plans. If the Contractor damages any existing sign or posts during construction, the Contractor will be required to replace the damaged materials with new signs or posts of the same type and size at the Contractor's expense. The Contractor shall be responsible for removing and storing any signs that are to be reinstalled on the project. All equipment shall be reinstalled in good condition.
 8. Existing permanent signs and posts removed by the Contractor for construction purposes which are not to be reinstalled shall be delivered to the City's Public Works Maintenance Facility (1971 SE Hamblen Road). The Contractor shall be responsible for removing and storing.
 9. All Stop, Yield, or street name signs shall be maintained in a conspicuous location for the driving public. All Stop and Yield signs removed for construction purposes can be temporarily erected in reflectorized drums (no less than 7 feet above the pavement surface) until they can be reinstalled. Any temporary Stop or Yield sign installation to be left in place overnight will require prior approval from the City Inspector.



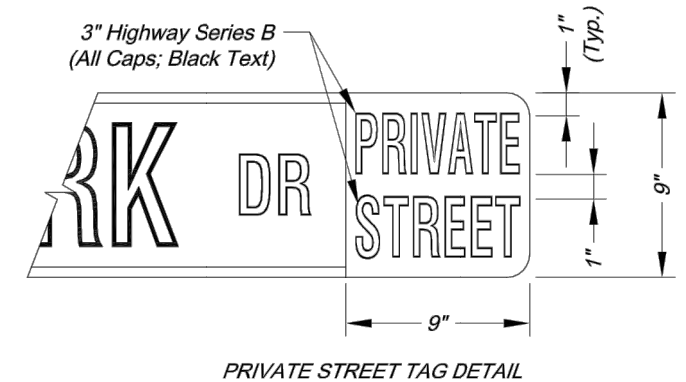
WING BRACKET MOUNTING DETAILS



- NOTES:
1. Wing bracket shall be an L-shaped cantilever of T-beam rigid frame 380-3 aluminum alloy construction.
 2. Mount each wing bracket to metal pole using two 3/4" wide stainless steel straps.
 3. One wing bracket shall be installed per each sign. Cross brackets are not allowed.



NUMBERED STREET NAME SIGN DETAIL

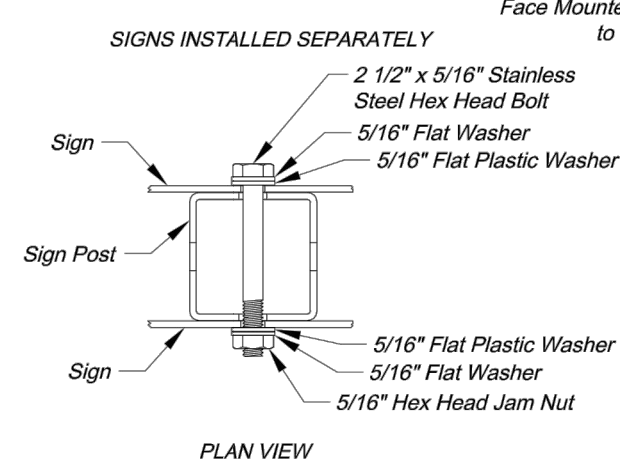


PRIVATE STREET TAG DETAIL

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

STREET NAME SIGN FACE DETAILS

SQUARE STEEL POST MOUNTING DETAILS



PLAN VIEW

LAMP RYNEARSON
MO CERT. NO. 2013011903
STATE OF MISSOURI
MARK DANIEL MCGHEE JR.
REGISTERED PROFESSIONAL ENGINEER
11/20/2019
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9001 State Line Rd., Ste. 200
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LEE'S SUMMIT, MISSOURI

SUMMIT VIEW FARMS 4TH PLAT
MASS GRADING, EROSION CONTROL,
PAVING AND STORM SEWER PLANS
SIGNAGE DETAILS

DESIGNER / DRAFTER
MDM/AJM
DATE
11/20/2019
PROJECT NUMBER
0318050.02
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L:\Engineering\0318050_Summit View Farms 3rd Plat\Drawings\CONSTRUCTION DRAWINGS\4TH PLAT\0318050.02-PAV-S&E-001.dwg, 1/6/2020 3:33:32 PM, JAME MCQUERRY, LAMP RYNEARSON