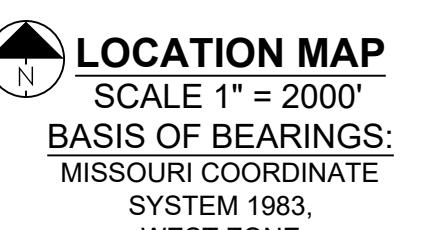
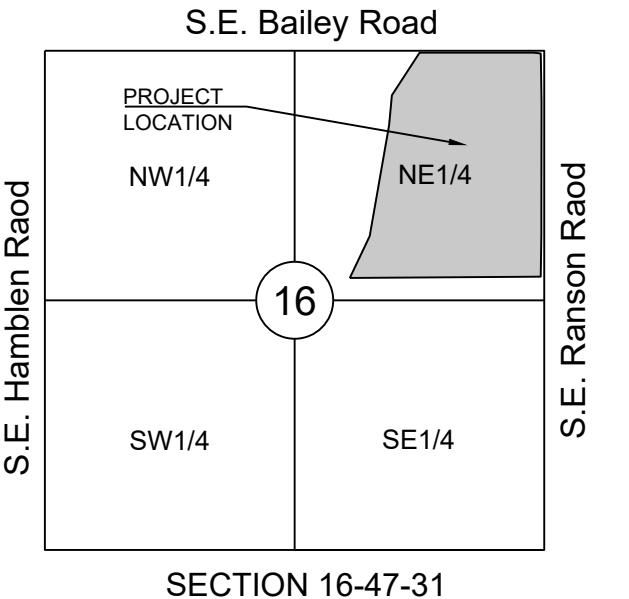


LEGEND:	
A/E	- ACCESS EASEMENT
BC	- BACK OF CURB
B/B	- BACK TO BACK
BM	- BENCHMARK
BL or B.L.	- BUILDING LINE
CO	- CLEANOUT
TJB	- TELEPHONE JUNCTION BOX
C&G	- CURB AND GUTTER
D/E	- DRAINAGE EASEMENT
E/E	- ELECTRICAL EASEMENT
EL	- ELEVATION
FL	- FLOW LINE
G/E	- GAS LINE EASEMENT
HDPE	- HIGH-DENSITY POLYETHYLENE
UE	- LANDSCAPE EASEMENT
MSFE	- MINIMUM SERVICEABLE FLOOR ELEVATION
PVC	- POLYVINYL CHLORIDE
P/L	- PROPERTY LINE
PUB/E	- PUBLIC EASEMENT
RCP	- REINFORCED CONCRETE PIPE
ROW or R/W	- RIGHT-OF-WAY
S/E	- SANITARY SEWER EASEMENT
SL	- SERVICE LINE
S/W	- SIDEWALK
TE	- TOP ELEVATION
U/E	- UTILITY EASEMENT
WSE	- WATER SURFACE ELEVATION
W/E	- WATERLINE EASEMENT
ASPHALT PAVEMENT - EXISTING	
ASPHALT PAVEMENT - PROPOSED	
CONCRETE PAVEMENT - EXISTING	
ASPHALT PAVEMENT - EXISTING	
CONCRETE SIDEWALK - EXISTING	
CONCRETE SIDEWALK - PROPOSED	
CURB & GUTTER	
CURB & GUTTER - EXISTING	
TREELINE	
EXISTING LOT AND R/W LINES	
EXISTING PLAT LINES	
PROPERTY LINES	
RIGHT-OF-WAY	
SANITARY SEWER MAIN	
SANITARY SEWER MAIN - EXIST.	
STORM SEWER	
STORM SEWER - EXISTING	
CABLE TV - EXISTING	
FIBER OPTIC CABLE - EXISTING	
TELEPHONE LINE - EXIST.	
ELECTRIC LINE - EXISTING	
OVERHEAD POWER LINE - EXIST.	
UNDERGROUND ELECTRIC - EX.	
GAS LINE - EXISTING	
WATERLINE - EXISTING	
LIGHT - EXISTING	
EXISTING MANHOLE	
CLEANOUT	
EXISTING SANITARY MANHOLE	
PROPOSED SANITARY MANHOLE	
EXISTING AREA INLET	
EXISTING CURB INLET	
EXISTING GRATE INLET	
EXISTING JUNCTION BOX	
EXISTING STORM MANHOLE	



GENERAL NOTES:

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

STREET NOTES:

- ALL STREET CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL. ALL APPLICABLE AASHTO STANDARDS HAVE BEEN MET.
- ALL INSPECTION OF STREET CONSTRUCTION TO BE PERFORMED BY THE CITY OF LEE'S SUMMIT DEVELOPMENT ENGINEERING.
- CURB RETURN RADII SHALL BE 25' AT BACK OF CURB UNLESS OTHERWISE NOTED.
- SUBGRADE TO BE COMPAKTED TO 95% STANDARD PROCTOR DENSITY.
- ASSUMED DESIGN SPEED = 25 MPH (COLLECTOR).
- MINIMUM STOPPING SIGHT DISTANCE = 155 FEET.
- MINIMUM K, SAG CURVE = 26 (14 WITH LIGHTING), CREST CURVE = 12.
- GRADE INTERSECTIONS TO DRAIN AS SHOWN.
- SSD = STOPPING SIGHT DISTANCE.
- ALL ADA SIDEWALK RAMPS SHALL BE CONSTRUCTED BY THE DEVELOPER WITH THE PUBLIC INFRASTRUCTURE.

SUMMARY OF QUANTITIES			
ITEM	QUANTITY	UNITS	
1 CLEARING AND GRUBBING	1	LS	
2 GRADING	1	LS	
3 6' ASPHALT PAVEMENT - LOCAL-RESIDENTIAL STREET	14,670	SY	
4 7.5' ASPHALT PAVEMENT - RESIDENTIAL COLLECTOR STREET	7,000	SY	
5 FLY ASH OR COMPACTED AGGREGATE BASE	26,050	SY	
6 TYPE CG-2 CURB AND GUTTER (INLET TRANSITIONS NOT INCLUDED) SUBSIDARY TO CG-2 IS ALL CG-2 DRY NEEDED	12,216	LF	
7 TYPE CG-1 CURB AND GUTTER (ENTRANCE ISLAND)	95	LF	
8 5' CONCRETE SIDEWALK	2,692	LF	
9 10' CONCRETE TRAIL	628	LF	
10 TYPE A RAMP	37	EA	
11 TYPE M RAMP	6	EA	
12 RAMP AT 10' TRAIL	2	EA	
13 6X4' CURB INLET	45	EA	
14 6X5' CURB INLET	4	EA	
15 6X5' CURB INLET	2	EA	
16 6X7' CURB INLET	1	EA	
17 7X4' CURB INLET	8	EA	
18 8X4' CURB INLET	2	EA	
19 4X4' AREA INLET	2	EA	
20 4X5' AREA INLET	2	EA	
21 4X6' AREA INLET	3	EA	
22 5X5' AREA INLET	3	EA	
23 FAIRLOTH SKIMMER - INCLUDE SKIMMER, CONCRETE BLOCK, RISER PIPE, REMOVAL AND REPLACEMENT WITH PERMANENT RISER STRUCTURE	1	LS	
24			

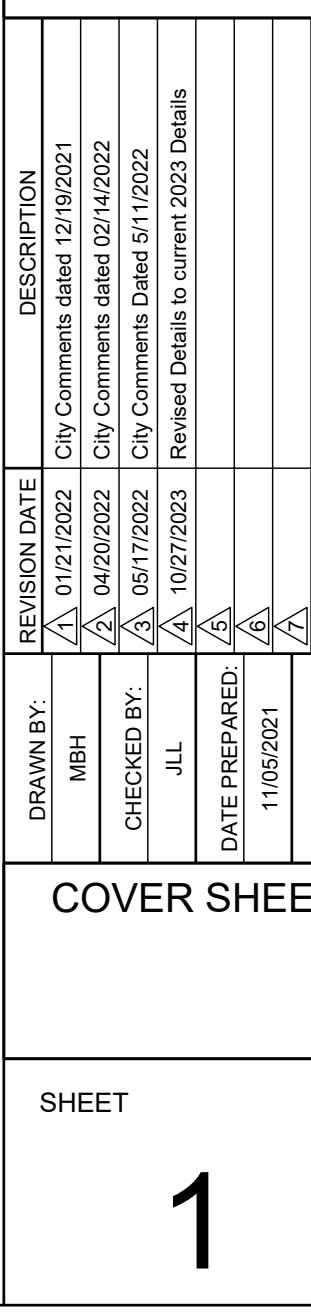
25	15" HDPE FLARED END SECTION	1	EA
26	30" HDPE FLARED END SECTION	1	EA
27	36" HDPE FLARED END SECTION	2	EA
28	60" x38" RCP FLARED END SECTION	1	EA
29	15" HDPE	1,733	LF
30	15" RCP	266	LF
31	18" HDPE	752	LF
32	24" HDPE	788	LF
33	24" RCP	35	LF
34	30" HDPE	1,789	LF
35	30" RCP	73	LF
36	36" HDPE	526	LF
37	36" RCP	341	LF
38	42" RCP	395	LF
39	48" RCP	192	LF
40	60" x38" RCP	120	LF
41	50# STONE RIP-RAP WITH FILTER FABRIC	33	CY
42	100# STONE RIP-RAP WITH FILTER FABRIC	12	CY
43	200# STONE RIP-RAP WITH FILTER FABRIC	52	CY
44	ROCK EXCAVATION (ESTIMATED - STORM SEWER ONLY)	300	CY
45	END OF ROAD MARKERS	30	EA
46	SIGNAGE	1	LS
47	STRIPING	1	LS
48	EROSION CONTROL	1	LS
49	BONDS	1	LS
	THESE QUANTITIES ARE SUPPLIED FOR THE CONTRACTORS BENEFIT. CONTRACTOR SHALL VERIFY QUANTITIES AND NOTE DISCREPANCY WHEN PLACING THEIR BID		
24			

STREET, STORMWATER, AND MASTER DRAINAGE PLAN FOR MANOR AT BAILEY FARMS, FIRST PLAT IN THE CITY OF LEE'S SUMMIT JACKSON COUNTY, MISSOURI

Sheet List Table	
Sheet Number	Sheet Title
1	COVER SHEET
2	GENERAL LAYOUT (NORTH)
3	GENERAL LAYOUT (EAST)
4	GENERAL LAYOUT (WEST)
5	MASTER DRAINAGE PLAN-GRADING PLAN (NORTH)
6	MASTER DRAINAGE PLAN-GRADING PLAN (EAST)
7	MASTER DRAINAGE PLAN-GRADING PLAN (WEST)
8	MASTER DRAINAGE PLAN-SWALE GRADING PLAN (EAST)
9	MASTER DRAINAGE PLAN-SWALE GRADING PLAN (WEST)
10	BAILEY FARMS PKWY NORTH PLAN & PROFILE
11	BAILEY FARMS PKWY SOUTH PLAN & PROFILE
12	RANCHLAND ST EAST PLAN & PROFILE
13	RANCHLAND ST WEST PLAN & PROFILE
14	CAPE DR EAST PLAN & PROFILE
15	CAPE DR WEST PLAN & PROFILE
16	SWEET ROOT DR & RISING SUN DR PLAN & PROFILE
17	FALLING STAR DR PLAN & PROFILE
18	INTERSECTION DETAILS 1 OF 8
19	INTERSECTION DETAILS 2 OF 8
20	INTERSECTION DETAILS 3 OF 8
21	INTERSECTION DETAILS 4 OF 8
22	INTERSECTION DETAILS 5 OF 8
23	INTERSECTION DETAILS 6 OF 8
24	INTERSECTION DETAILS 7 OF 8
25	INTERSECTION DETAILS 8 OF 8
26	MASTER DRAINAGE PLAN-DRAINAGE MAP
27	MASTER DRAINAGE PLAN-DRAINAGE CALCS
28	MASTER DRAINAGE PLAN-DRAINAGE CALCS CONT'D
29	STORM LAYOUT SHEET
30	STORM STRUCTURE LIST
31	STORM PROFILES 1
32	STORM PROFILES 2
33	STORM PROFILES 3
34	STORM PROFILES 4
35	STORM PROFILES 5
36	DETENTION BASIN DESIGN
37	STREET DETAILS 1
38	STREET DETAILS 2
39	STORM DETAILS 1
40	STORM DETAILS 2
41	STORM UNDERDRAIN DETAILS
42	SE BAILEY FARMS PKWY SIGNAGE PLAN
43	SE RANCHLAND ST SIGNAGE PLAN
44	SE CAPE DR SIGNAGE PLAN
45	SE SWEET ROOT DR RISING SUN DR FALLING STAR DR SIGNAGE PLAN
46	SIGN POST DETAILS (SN-2)
47	SIGN MOUNTING DETAILS (SN-1)
48	STREET NAME SIGN DETAILS (SN-3)
49	OM-4 SIGN DETAILS

MANOR AT BAILEY FARMS, FIRST PLAT STREET, STORMWATER, AND MASTER DRAINAGE PLAN

SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI



SCHLAGEL
ENGINEERS SURPLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street Lenexa Kansas 66215
(913) 482-5158 • Fax: (913) 482-3400
WWW.SCHLAGEL.COM
MAILING ADDRESS: 14920 West 107th Street Lenexa Kansas 66215
#E202038002 F BLAC2020100237 #S202008859-F

CITY ENGINEER
APPROVED FOR ONE YEAR FROM THIS DATE

OWNER/DEVELOPER:

CLAYTON PROPERTIES GROUP INC., DBA SUMMIT HOMES
BRADLEY KEMP
120 SE 30TH STREET
LEE'S SUMMIT, MO 64082
p (816) 246-6700
BRADLEY@SUMMITHOMESKC.COM

MISS

**MISSOURI GEOGRAPHIC REFERENCE SYSTEM
BENCHMARK:**

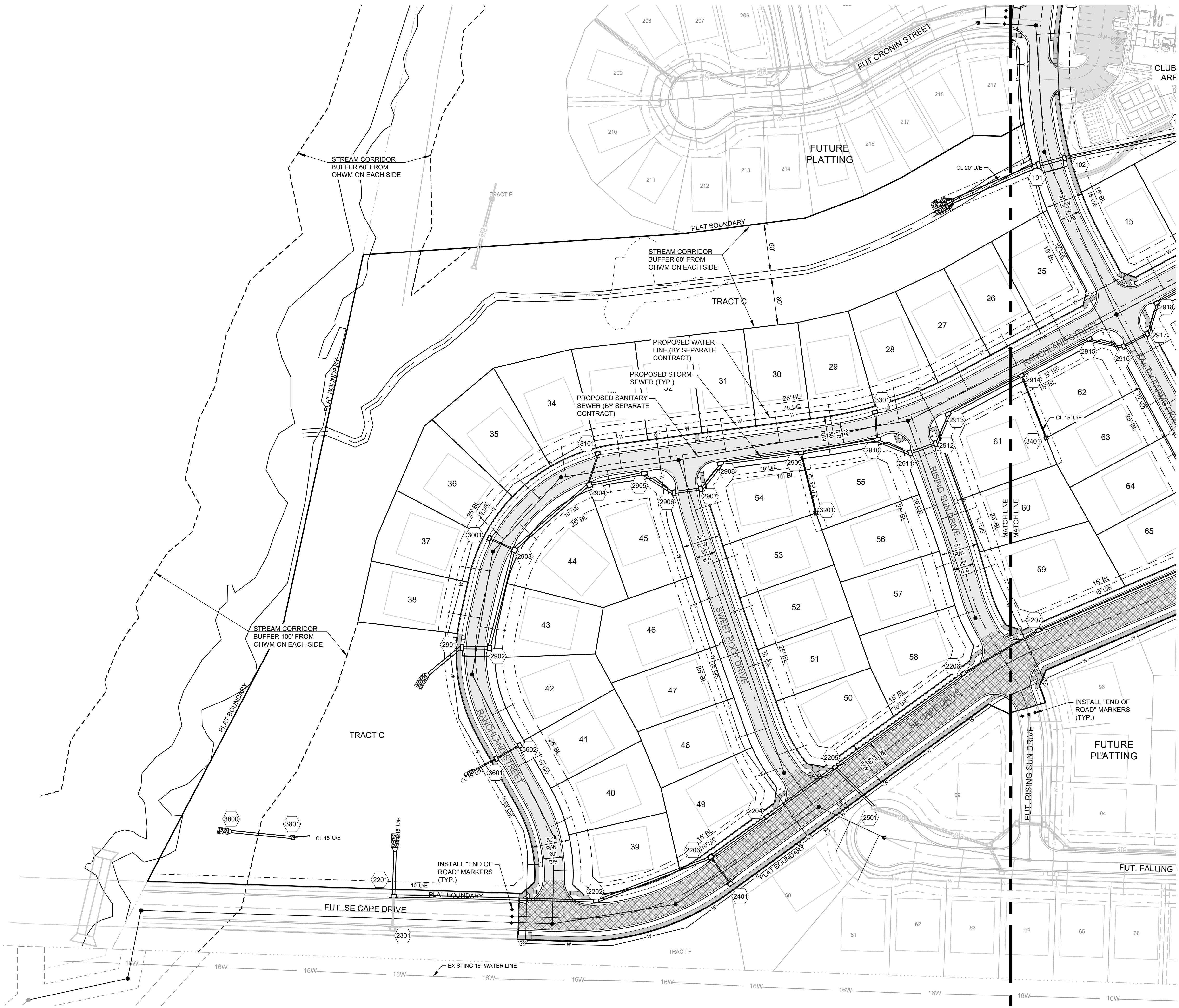
BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND
ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE
RANSON ROAD. IT IS STAMPED JA45, 1987.

NOTES:
STREET LEGEND:

-  RESIDENTIAL LOCAL
-  RESIDENTIAL COLLECTOR

BASIS OF BEARINGS:
MISSOURI STATE PLANE COORDINATE SYSTEM
(NAD) 1983, MISSOURI, WEST ZONE





MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:

BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

BASIS OF BEARINGS:

MISSOURI STATE PLANE COORDINATE SYSTEM (NAD) 1983, MISSOURI, WEST ZONE

NOTES:

ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE
CITY OF LEES SUMMIT TECHNICAL SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.

STREET LEGEND:

 RESIDENTIAL LOCAL
 RESIDENTIAL COLLECTOR



**MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN**

**SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI**

DRAWN BY:	NCA	1 01/21/2022	City Comments dated 12/19/2021
CHECKED BY:	JLL	2 04/20/2022	City Comments dated 02/14/2022
		3 05/17/2022	City Comments Dated 5/11/2022
DATE PREPARED:		4 10/27/2023	Revised Details to current 2023 Details
PROJ. NUMBER:		5	
		6	
		7	
		8	
		9	

GENERAL LAYOUT (WEST)

SHEET

4



SCALE: 1" = 60'

4

MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:

BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND
ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE
RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

NOTES:

ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEES SUMMIT TECHNICAL SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.

GRADING LEGEND

— — — 1023 — — EXISTING CONTOUR
— — — 1023 — — PROPOSED CONTOUR
— — — — — MWSE

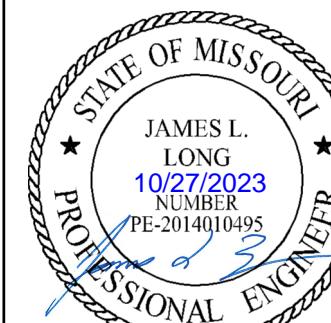
EL:000.00 DENOTES FINISHED GRADE ELEVATION

EL:000.00 (EX.) DENOTES EXISTING GRADE ELEVATION

 HP 000.00 DENOTES LOT HIGH POINT ELEVATION



PREPARED BY:



SCHIAGEL & ASSOCIATES

NE. CORNER, NE. 1/4,
SECTION 16, 47N, 31W

LATTED
OOL DISTRICT 7
GANIZED

SE BAILEY ROAD

FUT. SE BROWNFIELD DRIVE

FUT. SILO STREET

FUT. ARBORETUM DRIVE

FUT. WINDBREAK DRIVE

BAILEY FARMS PKWY

MATCH LINE

PLAT BOUNDARY

FUT. VANTAGE POINT DRIVE

SE. RANSON ROAD

0 60' SCALE: 1" = 60'

NE. CORNER, NE. 1/4,
SECTION 16, 47N, 31W

MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN

SE BAILEY ROAD AND SE RANSON ROAD

MASTER DRAINAGE PLAN-GRADING PLAN (NORTH)		
DRAWN BY:	REVISION DATE	DESCRIPTION
NCA	<input type="triangle"/> 1 01/21/2022 <input type="triangle"/> 2 04/20/2022	City Comments dated 12/19/2021 City Comments dated 02/14/2022
CHECKED BY:	<input type="triangle"/> 3 05/17/2022 <input type="triangle"/> 4 10/27/2023	City Comments Dated 5/11/2022 Revised Details to current 2023 Details
JLL		
DATE PREPARED:	<input type="triangle"/> 5 <input type="triangle"/> 6 <input type="triangle"/> 7	
	11/05/2021	
PROJ. NUMBER:	<input type="triangle"/> 8 <input type="triangle"/> 9	
		21-130
SHEET	5	



**MISSOURI GEOGRAPHIC REFERENCE SYSTEM
BENCHMARK:**

BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

BASIS OF BEARINGS:

MISSOURI STATE PLANE COORDINATE SYSTEM
(NAD) 1983, MISSOURI, WEST ZONE

NOTES:

ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEES SUMMIT TECHNICAL SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.

GRADING LEGEND:

- 1023 — EXISTING CONTOUR
- 1023 — PROPOSED CONTOUR
- - - MWSE

○ EL:000.00 DENOTES FINISHED GRADE ELEVATION

○ EL:000.00 (EX.) DENOTES EXISTING GRADE ELEVATION

— HP 000.00 DENOTES LOT HIGH POINT ELEVATION

NOTES:

1. MBOE = MINIMUM BUILDING OPENING ELEVATION FOR HOUSES ADJACENT TO ENGINEERED OVERFLOW SWALES SHALL BE MINIMUM 2 FEET ABOVE THE 100 YR WATER SURFACE ELEVATION.
2. EGL = ENERGY GRADE LINE (100 YR)
3. WSE = WATER SURFACE ELEVATION (100 YR)
4. ENGINEERED SWALES TO BE GRADED TO NORMAL DEPTH OF FLOW (WATER SURFACE ELEVATION) OR 1.0 FT, WHICHEVER IS GREATER. MINIMUM SLOPE OF ENGINEERED SWALES SHALL BE AS NOTED.
5. MBOE'S ADJACENT TO SUMPED INLETS SHALL BE A MINIMUM OF 1' ABOVE TOP OF ADJACENT BERM.

LOT TYPE TABLE			LOT TYPE TABLE		
LOT #	BASEMENT TYPE	MBOE	LOT #	BASEMENT TYPE	MBOE
1	STANDARD		34	DAYLIGHT	
2	STANDARD		35	DAYLIGHT	
3	STANDARD		36	WALKOUT	
4	STANDARD		37	WALKOUT	
5	STANDARD		38*	STANDARD	1002
6*	STANDARD		39	STANDARD	
7*	STANDARD		40	STANDARD	
8*	DAYLIGHT		41	STANDARD	
9*	DAYLIGHT		42	STANDARD	
10*	STANDARD		43	STANDARD	
11*	STANDARD		44	STANDARD	
12*	STANDARD		45	STANDARD	
13*	STANDARD		46	WALKOUT	
14*	STANDARD		47	WALKOUT	
15	STANDARD		48	DAYLIGHT	
16	STANDARD		49	DAYLIGHT	
17	STANDARD		50	STANDARD	
18	STANDARD		51	STANDARD	
19	DAYLIGHT		52	STANDARD	
20	DAYLIGHT		53	STANDARD	
21	STANDARD		54*	STANDARD	1014
22	STANDARD		55*	STANDARD	1014
23	STANDARD		56	STANDARD	
24	STANDARD		57	STANDARD	
25	DAYLIGHT		58	STANDARD	
26*	DAYLIGHT	1009	59	STANDARD	
27*	DAYLIGHT	1009	60	STANDARD	
28*	DAYLIGHT	1008	61*	STANDARD	1017
29*	DAYLIGHT	1008	62*	STANDARD	1017
30*	DAYLIGHT	1007	63	STANDARD	
31*	DAYLIGHT	1007	64	STANDARD	
32*	DAYLIGHT	1005	65	STANDARD	
33*	DAYLIGHT	1005			

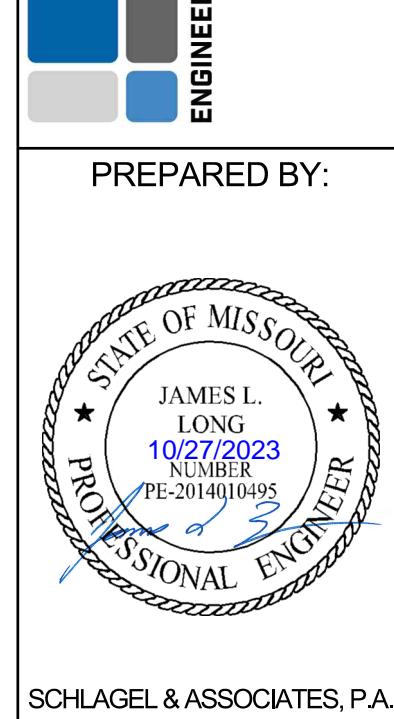
* LOTS WHICH REQUIRE AN "AS-GRADED PLOT PLAN" BEFORE OCCUPANCY.

DRAWN BY: NCA	REVISION DATE: 01/21/2022	DESCRIPTION: City Comments dated 01/21/2022
CHECKED BY: JLL	01/20/2022	City Comments dated 01/21/2022
DATE PREPARED: 1/21/2023	01/20/2022	Revised Details to current 2022 Details
PROJ. NUMBER: 110562021	110562021	
MASTER DRAINAGE PLAN-GRADING PLAN (EAST) SHEET		
6		



SCALE: 1" = 60'

SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street Lenexa Kansas 66215
(913) 482-5158 • Fax: (913) 482-3400
WWW.SCHLAGELASSOCIATES.COM
MAILING ADDRESS: PO BOX 20000, Lenexa, KS 66225-2000
#E2020038005 F BLAC20201000237 45 S2020038059-F



SCHLAGEL & ASSOCIATES, P.A.

MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI



**MISSOURI GEOGRAPHIC REFERENCE SYSTEM
BENCHMARK:**

BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

BASIS OF BEARINGS:

MISSOURI STATE PLANE COORDINATE SYSTEM
(NAD) 1983, MISSOURI, WEST ZONE

NOTES:

ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEES SUMMIT TECHNICAL SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.

GRADING LEGEND:

— 1023 — EXISTING CONTOUR
— 1023 — PROPOSED CONTOUR
— - - - - MWSE

EL:000.00 DENOTES FINISHED GRADE ELEVATION
EL:000.00 (EX.) DENOTES EXISTING GRADE ELEVATION
HP 000.00 DENOTES LOT HIGH POINT ELEVATION

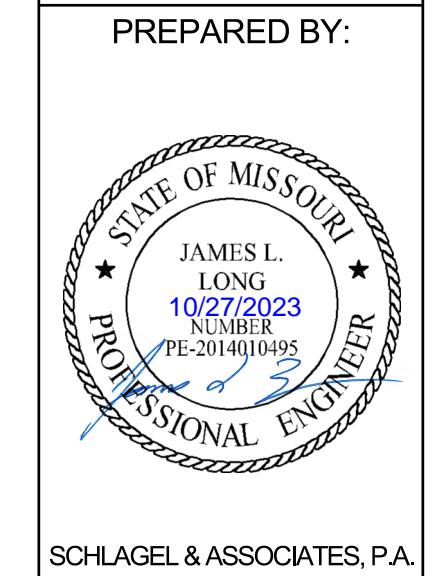
NOTES:

1. MBOE = MINIMUM BUILDING OPENING ELEVATION FOR HOUSES ADJACENT TO ENGINEERED OVERFLOW SWALES SHALL BE MINIMUM 2 FEET ABOVE THE 100 YR WATER SURFACE ELEVATION.
2. EGL = ENERGY GRADE LINE (100 YR)
3. WSE = WATER SURFACE ELEVATION (100 YR)
4. ENGINEERED SWALES TO BE GRADED TO NORMAL DEPTH OF FLOW (WATER SURFACE ELEVATION) OR 1.0 FT, WHICHEVER IS GREATER. MINIMUM SLOPE OF ENGINEERED SWALES SHALL BE AS NOTED.
5. MBOE'S ADJACENT TO SUMPED INLETS SHALL BE A MINIMUM OF 1' ABOVE TOP OF ADJACENT BERM.

LOT TYPE TABLE		LOT TYPE TABLE	
LOT #	TYPE	LOT #	TYPE
1	STANDARD	34	DAYLIGHT
2	STANDARD	35	DAYLIGHT
3	STANDARD	36	WALKOUT
4	STANDARD	37	WALKOUT
5	STANDARD	38*	STANDARD 1002
6*	STANDARD	1027	39 STANDARD
7*	STANDARD	1025	40 STANDARD
8*	DAYLIGHT	1022	41 STANDARD
9*	DAYLIGHT	1022	42 STANDARD
10*	STANDARD	1021	43 STANDARD
11*	STANDARD	1021	44 STANDARD
12*	STANDARD	1018	45 STANDARD
13*	STANDARD	1020	46 WALKOUT
14*	STANDARD	1020	47 WALKOUT
15*	STANDARD	1020	48 DAYLIGHT
16	STANDARD	49	DAYLIGHT
17	STANDARD	50	STANDARD
18	STANDARD	51	STANDARD
19	DAYLIGHT	52	STANDARD
20	DAYLIGHT	53	STANDARD
21	STANDARD	54*	STANDARD 1014
22	STANDARD	55*	STANDARD 1014
23	STANDARD	56	STANDARD
24	STANDARD	57	STANDARD
25	DAYLIGHT	58	STANDARD
26*	DAYLIGHT	1009	59 STANDARD
27*	DAYLIGHT	1009	60 STANDARD
28	DAYLIGHT	1008	61* STANDARD 1017
29*	DAYLIGHT	1008	62* STANDARD 1017
30*	DAYLIGHT	1007	63 STANDARD
31*	DAYLIGHT	1007	64 STANDARD
32*	DAYLIGHT	1005	65 STANDARD
33*	DAYLIGHT	1005	

* LOTS WHICH REQUIRE AN "AS-GRADED PLOT PLAN" BEFORE OCCUPANCY.

SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street Lenexa Kansas 66215
(913) 492-5158 • Fax: (913) 492-3400
WWW.SCHLAGELASSOCIATES.COM
MAILING ADDRESS: PO BOX 20000, Lenexa, KS 66225-2000
#E2020030005 F BLAC20201000237 44520200308595-F



STATE OF MISSOURI
JAMES L.
LONG
10/27/2023
PROFESSIONAL ENGINEER
SCHLAGEL & ASSOCIATES, P.A.

**MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN**
**SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI**

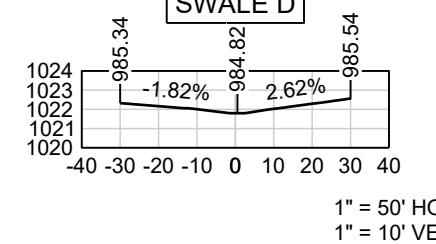
DRAWN BY:	REVISION DATE:	DESCRIPTION:
NCA	01/21/2022	City Comments dated 01/21/2022
CHECKED BY:	01/20/2022	City Comments dated 01/21/2022
JLL	01/21/2022	Revised Details to current 2022 Details
DATE PREPARED:	1/10/2021	1/10/2021
PROJ. NUMBER:	21-130	21-130

MASTER DRAINAGE PLAN-GRADING PLAN (WEST)
SHEET 7

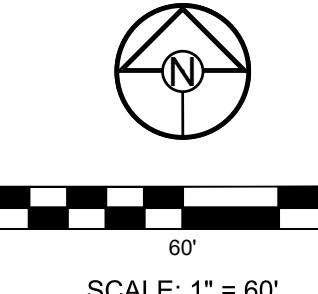
SCALE: 1" = 60'
0 60' 120'



WEIR CALCULATIONS ($Q = CLH^{(3/2)}$)								
SECTION	DRAINAGE AREA (AC.)	Q100 (CFS)	DESIGN OVERFLOW (CFS)	WEIR ELEVATION	WEIR COEFFICIENT	LENGTH	HEAD REQ'D	WSE
1	6.45	67.40	67.40	1016.56	3.33	10'-0"	1.60	1018.20
2	5.50	57.47	57.47	1016.63	3.33	10'-0"	1.44	1018.10
3	4.95	51.72	51.72	1017.89	3.33	10'-0"	1.34	1019.30
4	4.30	44.93	44.93	1018.84	3.33	10'-0"	1.22	1020.10



100 YEAR OVERFLOW SWALES												
SECTION	DRAINAGE AREA (AC.)	Q100 (CFS)	Q10 (CFS)	DESIGN OVERFLOW (CFS)	BED SLOPE (%)	BASE WIDTH (FT.)	SIDE SLOPE	TOP WIDTH (FT.)	NORMAL DEPTH (FT.)	VELOCITY (FPS)	VELOCITY HEAD (FT.)	EGL (FT.)
D-D	4.30	28.29	16.12	12.17	2.00	5	50:1	35.00	0.30	2.03	0.06	0.36



SCALE: 1" = 60'

8

**MISSOURI GEOGRAPHIC REFERENCE SYSTEM
BENCHMARK:**

BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

BASIS OF BEARINGS:

MISSOURI STATE PLANE COORDINATE SYSTEM
(NAD) 1983, MISSOURI, WEST ZONE

NOTES:

ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEES SUMMIT TECHNICAL SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.

GRADING LEGEND:

- 1023 EXISTING CONTOUR
- 1023 PROPOSED CONTOUR
- - - MWSE
- A A DENOTES OVERFLOW SWALE
- EL-000.00 DENOTES FINISHED GRADE ELEVATION
- EL-000.00 (EX.) DENOTES EXISTING GRADE ELEVATION
- HP 000.00 DENOTES LOT HIGH POINT ELEVATION

NOTES:

1. MBOE = MINIMUM BUILDING OPENING ELEVATION FOR HOUSES ADJACENT TO ENGINEERED OVERFLOW SWALES SHALL BE MINIMUM 2 FEET ABOVE THE 100 YR WATER SURFACE ELEVATION.
2. EGL = ENERGY GRADE LINE (100 YR)
3. WSE = WATER SURFACE ELEVATION (100 YR)
4. ENGINEERED SWALES TO BE GRADED TO NORMAL DEPTH OF FLOW (WATER SURFACE ELEVATION) OR 1.0 FT, WHICHEVER IS GREATER. MINIMUM SLOPE OF ENGINEERED SWALES SHALL BE AS NOTED.
5. MBOE'S ADJACENT TO SUMPED INLETS SHALL BE A MINIMUM OF 1' ABOVE TOP OF ADJACENT BERM

**MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER AND MASTER
DRAINAGE PLAN**
**SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI**

SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street Lenexa Kansas 66215
(913) 482-5158 • Fax: (913) 482-3400
WWW.SCHLAGELASSOCIATES.COM
MAILING ADDRESS: 14920 W 107TH ST, LENEXA, KS 66215
#E202038005 F BLAC20201000237 #S202038859-F

STATE OF MISSOURI
JAMES L.
LONG
10/27/2023
NUMBER
PE-2014495
PROFESSIONAL ENGINEER

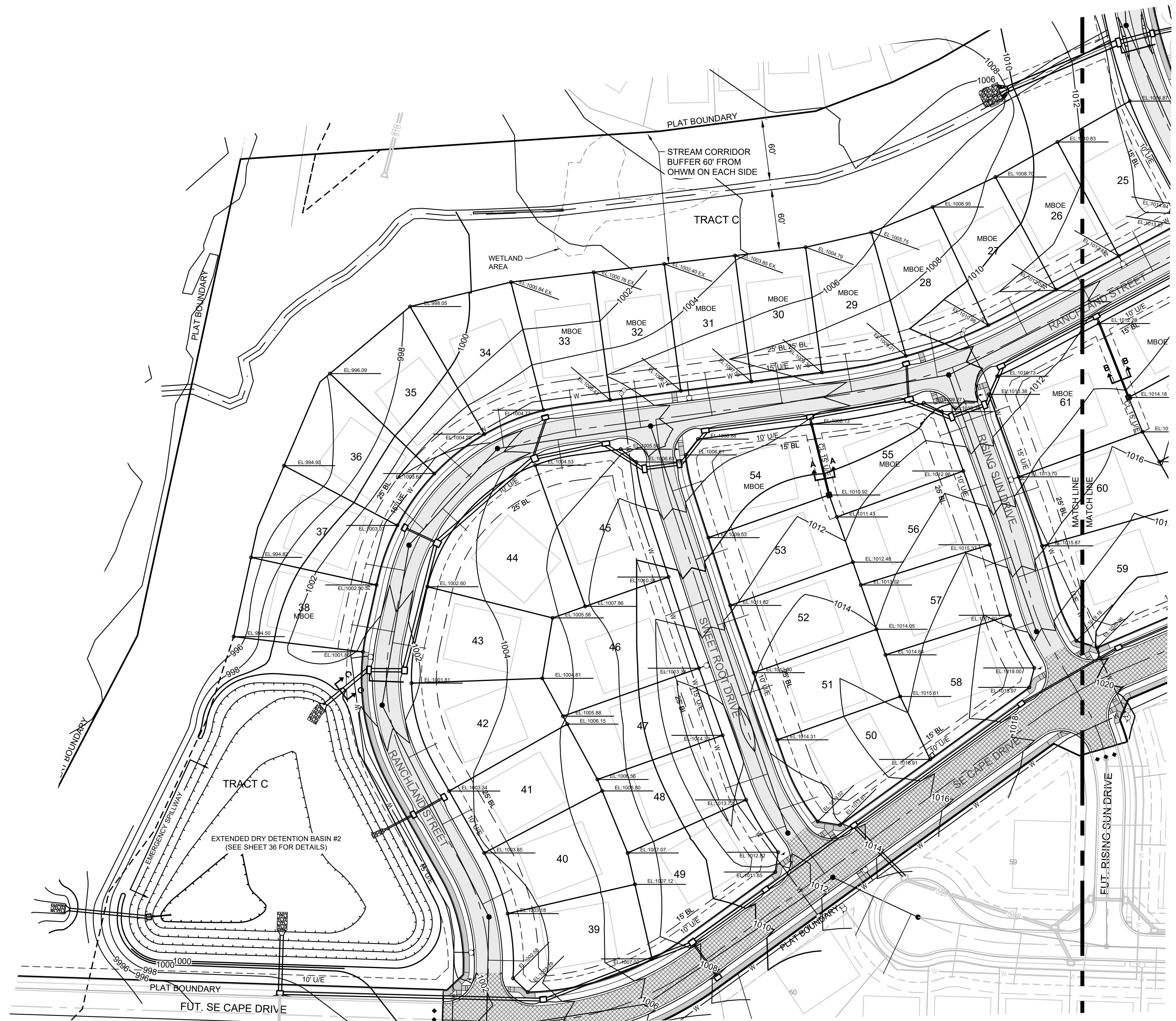
PREPARED BY:
SCHLAGEL & ASSOCIATES, P.A.

**MASTER
DRAINAGE
PLAN-SWALE
GRADING PLAN**
Sheet(EAST)

DRAWN BY: NCA
REVISION DATE: 01/21/2022
City Comments dated 01/21/2022
CHECKED BY: JLL
04/20/2022
City Comments dated 04/21/2022
City Comments dated 04/11/2022
Revised Details to current 2023 Details
DATE PREPARED: 01/20/2023
Proj. Number: 11056201
21-130

RUNOFF CALCULATIONS:
 $Q = K * C * i * A$
 $K_10 = 1.0 \quad K_{100} = 1.25 \quad C = 0.51$
 $i = INTENSITY (h_{10} = 7.35" / h_{100} = 10.32")$
DESIGN OVERFLOW = $Q_{OVERFLOW} = Q_{100} - Q_{100}$
MANNINGS "n" = 0.030 FOR SWALES

8


**MISSOURI GEOGRAPHIC REFERENCE SYSTEM
BENCHMARK:**

BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

BASIS OF BEARINGS:

MISSOURI STATE PLANE COORDINATE SYSTEM
(NAD 1983, MISSOURI, WEST ZONE)

NOTES:

ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEES SUMMIT TECHNICAL SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.

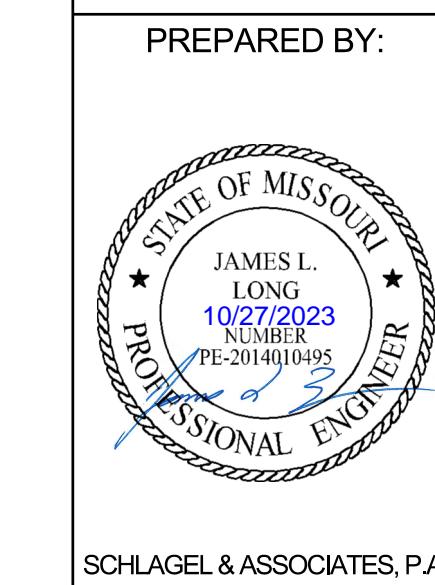
GRADING LEGEND:

- 1023 — EXISTING CONTOUR
- 1023 — PROPOSED CONTOUR
- - - - MWSE
-
- DENOTES OVERFLOW SWALE
-
- DENOTES FINISHED GRADE ELEVATION
-
- DENOTES EXISTING GRADE ELEVATION
-
- DENOTES LOT HIGH POINT ELEVATION

NOTES:

1. MBOE = MINIMUM BUILDING OPENING ELEVATION FOR HOUSES ADJACENT TO ENGINEERED OVERFLOW SWALES SHALL BE MINIMUM 2 FEET ABOVE THE 100 YR WATER SURFACE ELEVATION.
2. ECL = ENERGY GRADE LINE (100 YR)
3. WSE = WATER SURFACE ELEVATION (100 YR)
4. ENGINEERED SWALES TO BE GRADED TO NORMAL DEPTH OF FLOW (WATER SURFACE ELEVATION) OR 1.0 FT, WHICHEVER IS GREATER. MINIMUM SLOPE OF ENGINEERED SWALES SHALL BE AS NOTED.
5. MBOE'S ADJACENT TO SUMPED INLETS SHALL BE A MINIMUM OF 1' ABOVE TOP OF ADJACENT BERM

**MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER AND MASTER
DRAINAGE PLAN**
**SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI**



PREPARED BY:
SCHLAGEL & ASSOCIATES, P.A.

SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street Lenexa Kansas 66215
(913) 492-5158 • Fax: (913) 492-3400
WWW.SCHLAGELASSOCIATES.COM
MAILING ADDRESS: 14920 W 107TH STREET #100 LENEXA KS 66215
#E2020038005 F BLAC20201000237 4452020038059-F

100 YEAR OVERFLOW SWALES												
SECTION	DRAINAGE AREA (AC.)	Q100 (CFS)	Q10 (CFS)	DESIGN OVERFLOW (CFS)	BED SLOPE (%)	BASE WIDTH (FT.)	SIDE SLOPE	TOP WIDTH (FT.)	NORMAL DEPTH (FT.)	VELOCITY (FPS)	VELOCITY HEAD (FT.)	EGL (FT.)
A-A	1.10	7.24	4.12	3.12	2.6	--	100:1	30.00	0.15	1.39	0.03	0.18
B-B	0.90	5.92	3.38	2.54	3.5	--	100:1	28.00	0.14	1.30	0.03	0.17
C-C	14.80	97.37	55.48	41.89	2.4	5	3:1	10.58	0.93	5.78	0.52	1.45

RUNOFF CALCULATIONS:

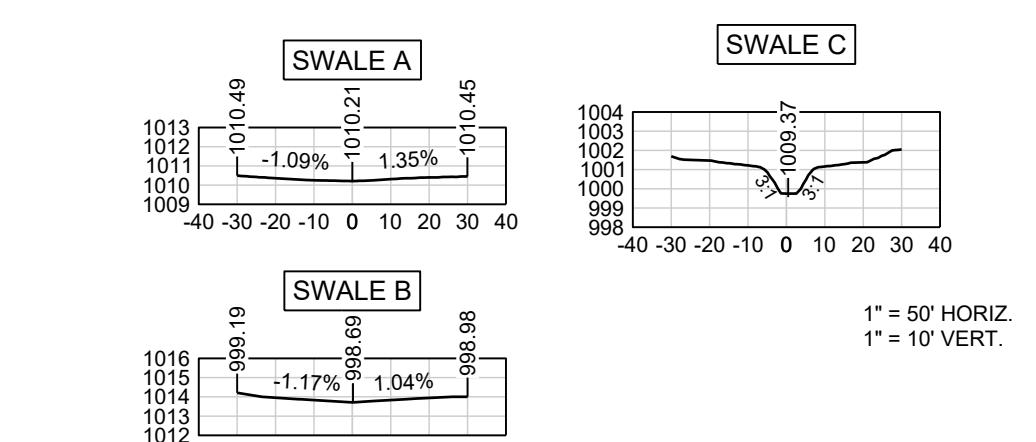
$$Q = K * C * i * A$$

$$K_{10} = 1.0 \quad K_{100} = 1.25 \quad C = 0.51$$

$$i = INTENSITY (i_10 = 7.35'' / i_{100} = 10.32'')$$

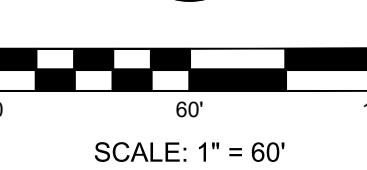
$$DESIGN OVERFLOW = Q_{OVERFLOW} = Q_{100} - Q_{10}$$

MANNINGS "n" = 0.030 FOR SWALES

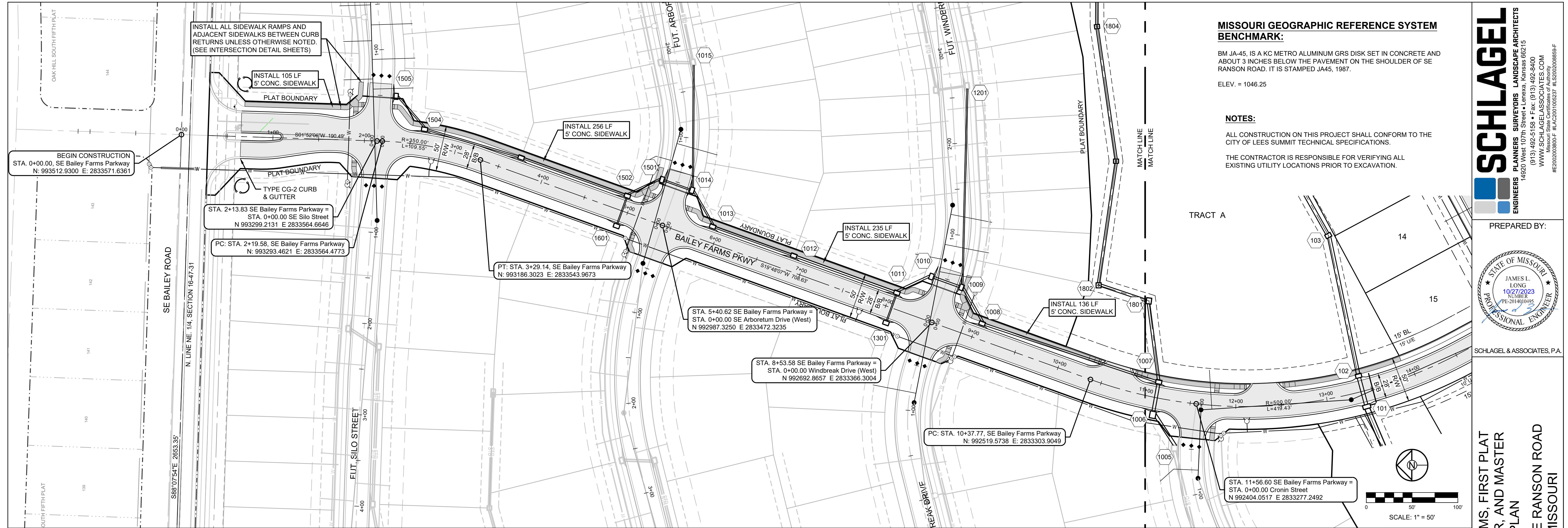


MASTER
DRAINAGE
PLAN-SWALE
GRADING PLAN
SHEET(WEST)

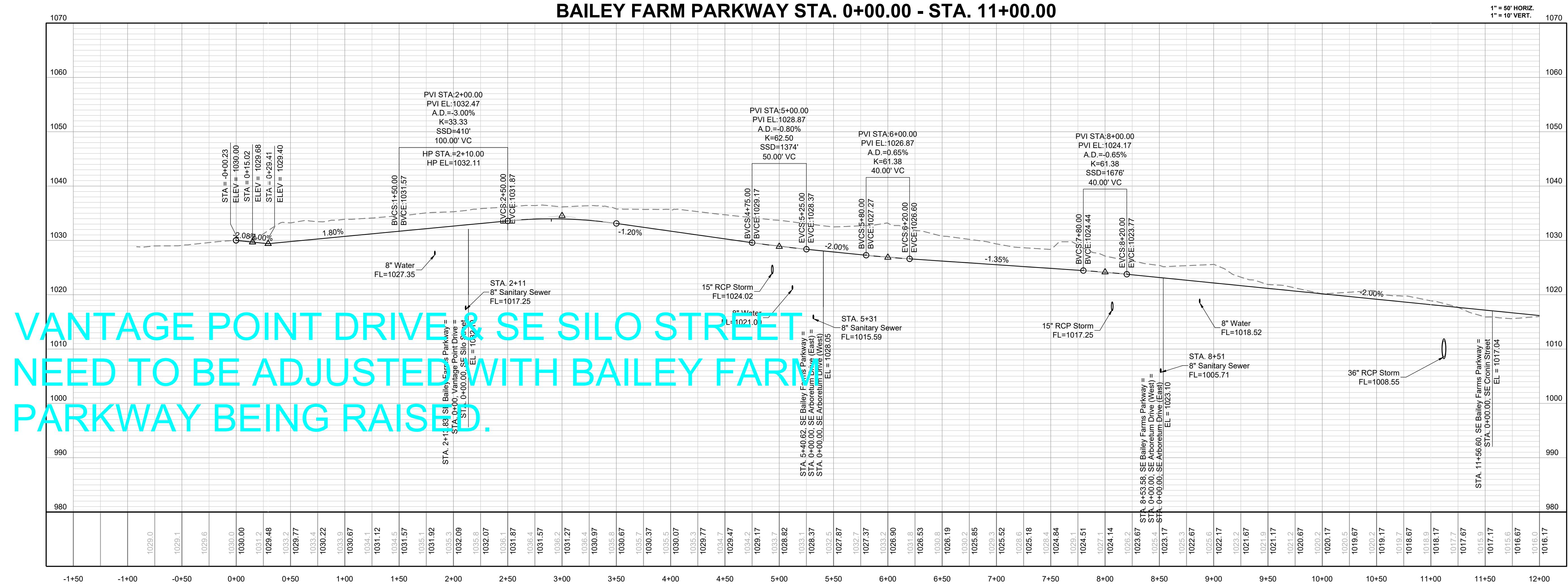
9



SCALE: 1" = 60'



BAILEY FARM PARKWAY STA. 0+00.00 - STA. 11+00.00



**MISSOURI GEOGRAPHIC REFERENCE SYSTEM
BENCHMARK:**

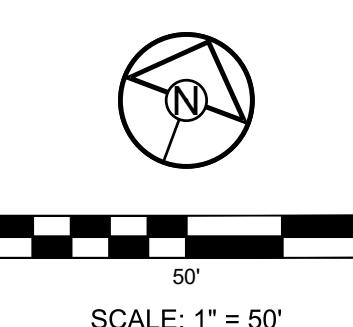
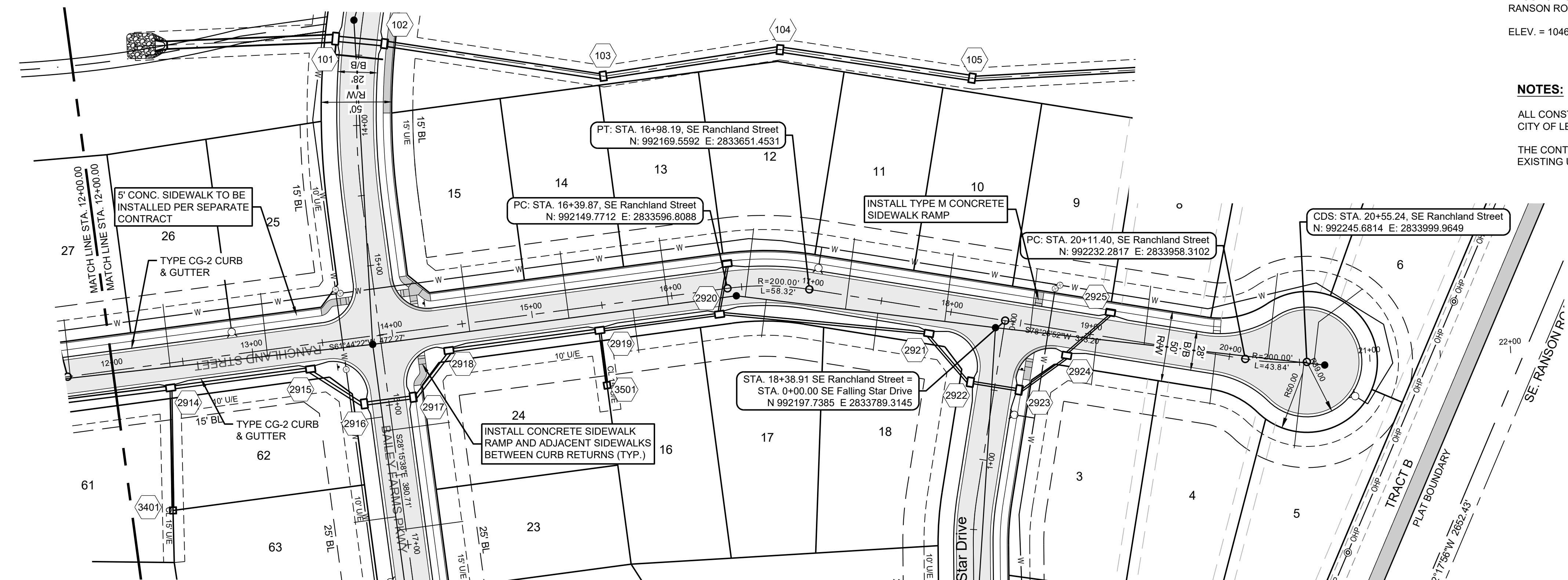
BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

NOTES:

ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEES SUMMIT TECHNICAL SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.



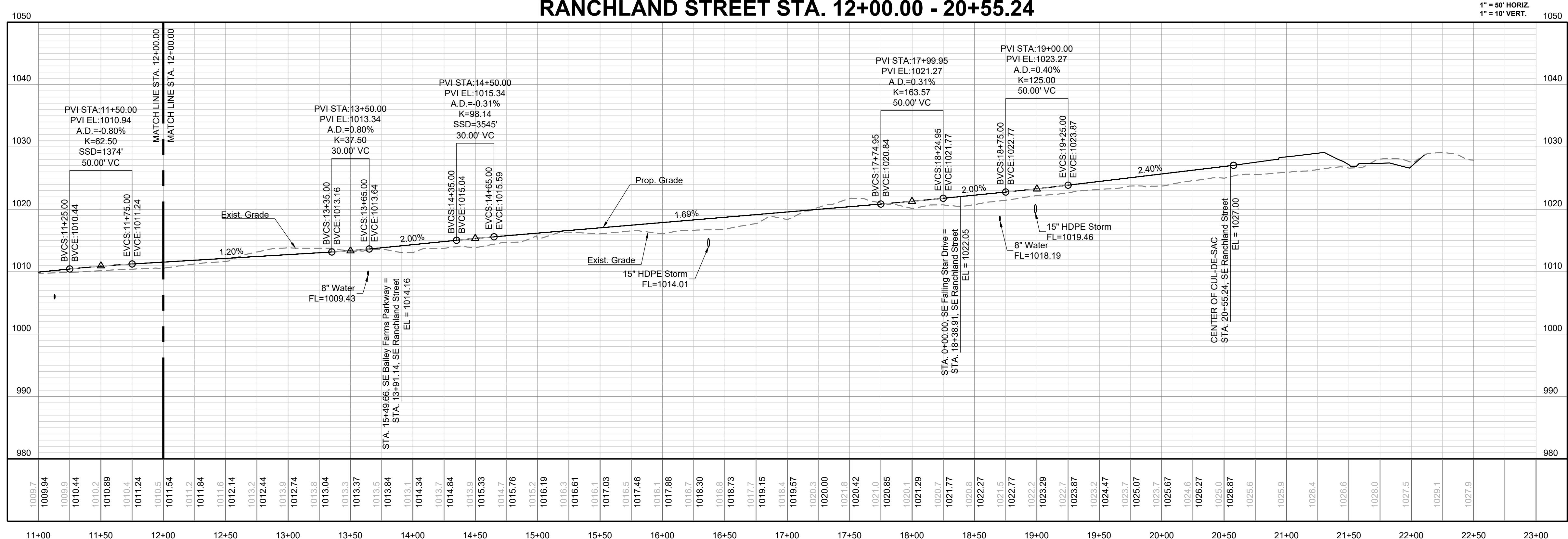
SCALE: 1" = 50'
1" = 10' VERT.

RANCHLAND STREET STA. 12+00.00 - 20+55.24

1" = 50' HORIZ.
1" = 10' VERT.

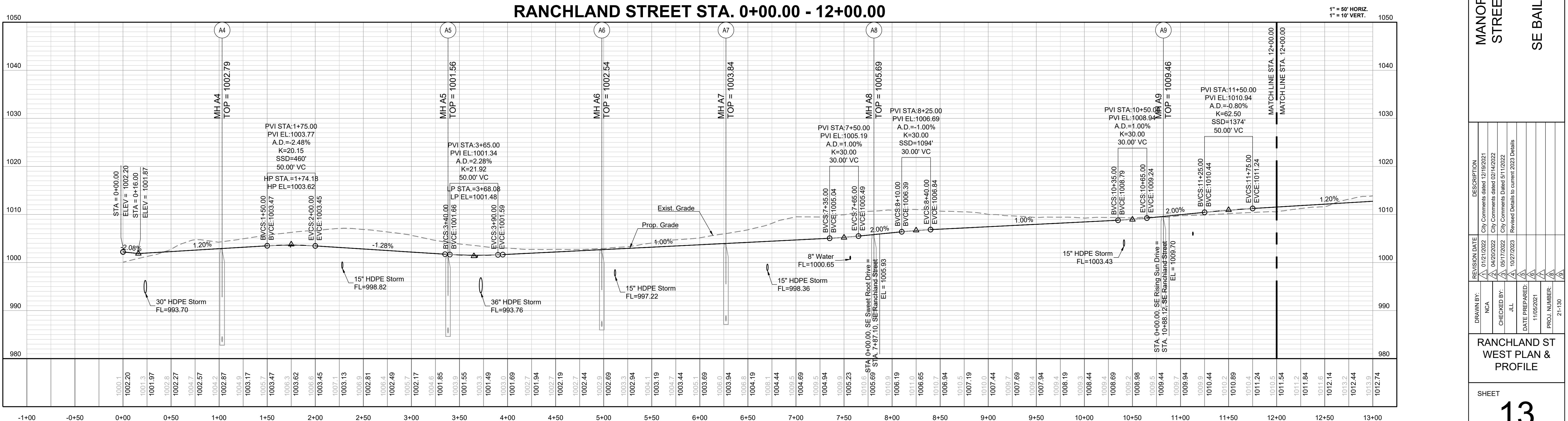
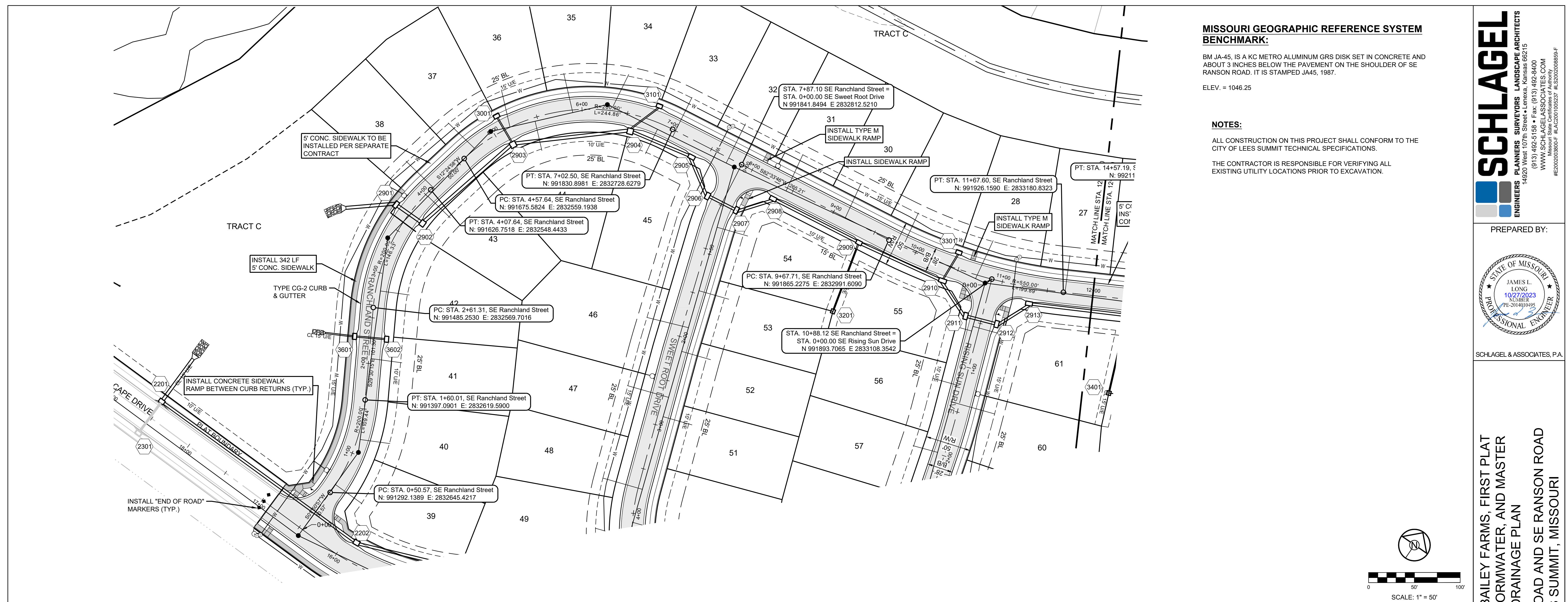
**MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN**

**SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI**



SHEET	DRAWN BY: NCA	REVISION DATE: 01/21/2021	DESCRIPTION: City Comments dated 01/21/2021		
				CHECKED BY: JLL	Comments dated 01/21/2022
RANCHLAND ST EAST PLAN & PROFILE	DATE PREPARED: 1/10/2021	01/21/2022	City Comments dated 01/21/2022	REvised Details to current 2022 Details	
	PROJ. NUMBER: 21-130	01/21/2022			

SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street Lenexa Kansas 66215
(913) 492-5158 • Fax: (913) 492-3400
WWW.SCHLAGEL.COM
MAIL: SCHLAGEL@CLOUD.MAIL.COM
#E2020038005 F BLAC2020100237 4LS202003859-F



MISSOURI GEOGRAPHIC REFERENCE SYSTEM
BENCHMARK:

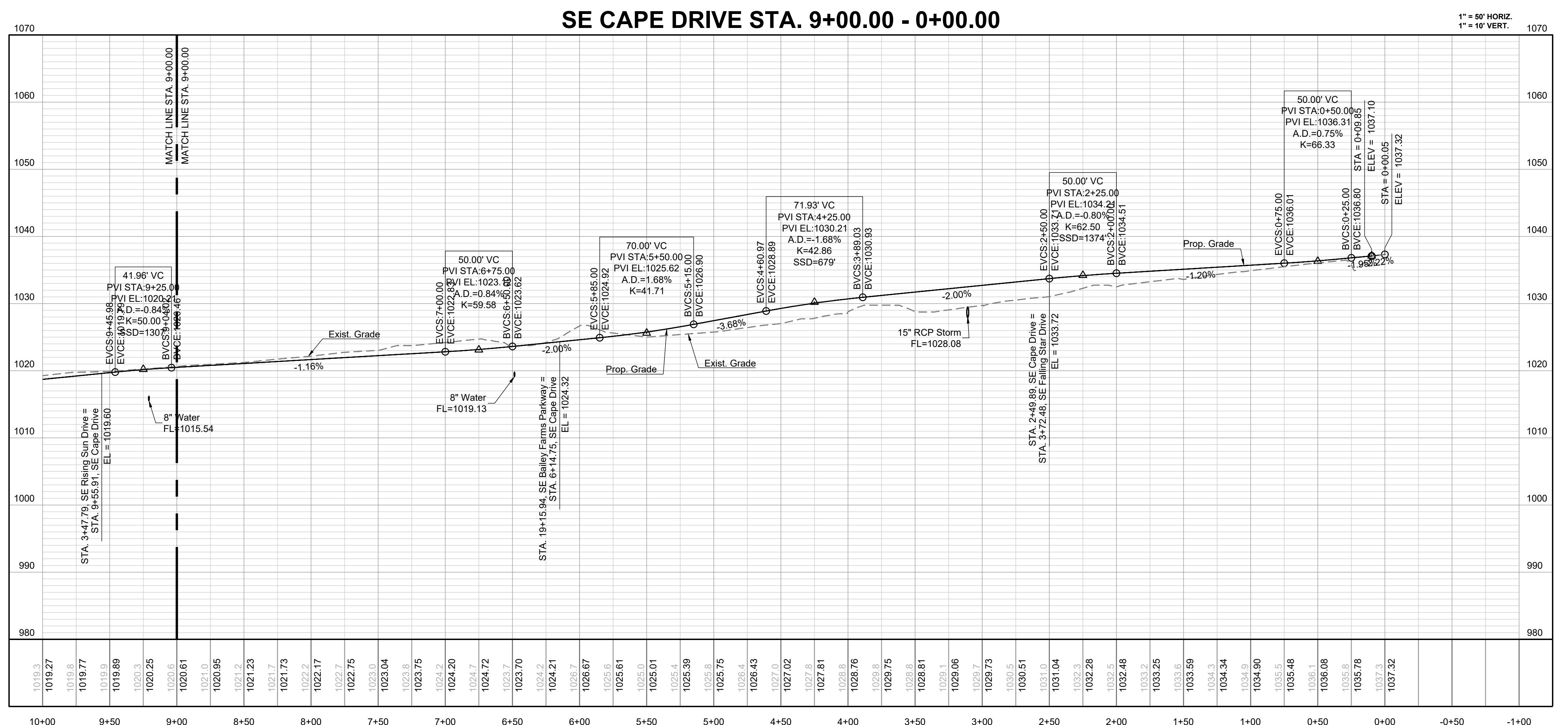
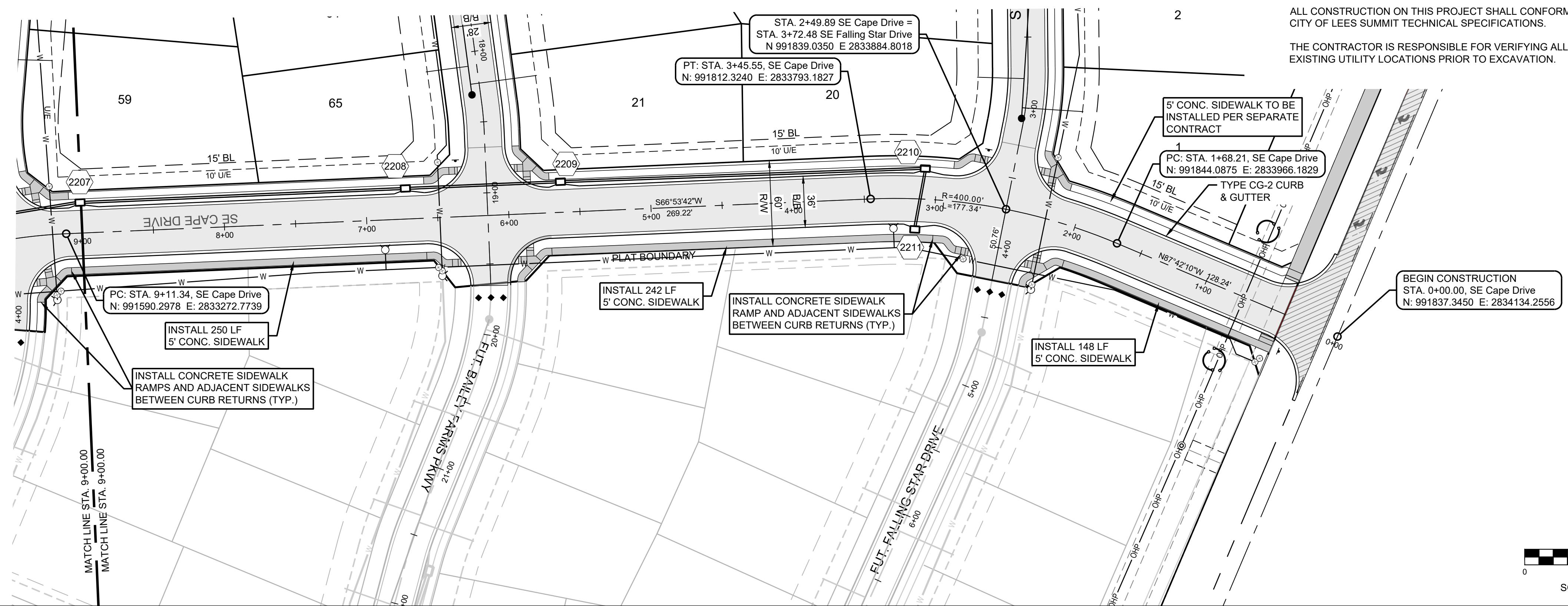
BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

NOTES:

ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEES SUMMIT TECHNICAL SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.



MISSOURI GEOGRAPHIC REFERENCE SYSTEM
BENCHMARK:

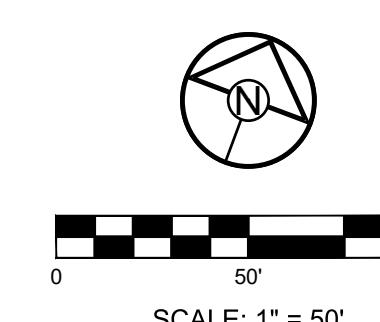
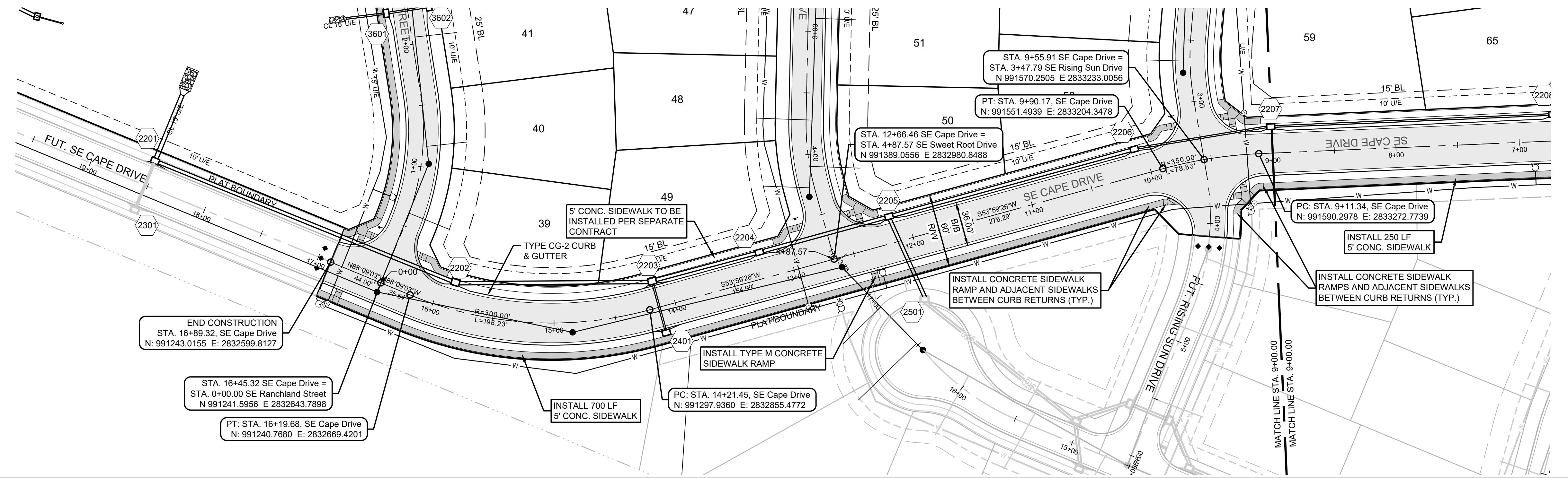
BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

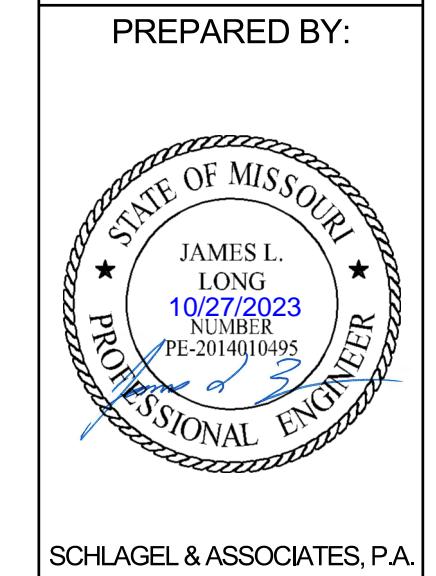
NOTES:

ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEES SUMMIT TECHNICAL SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.



SCALE: 1" = 50'



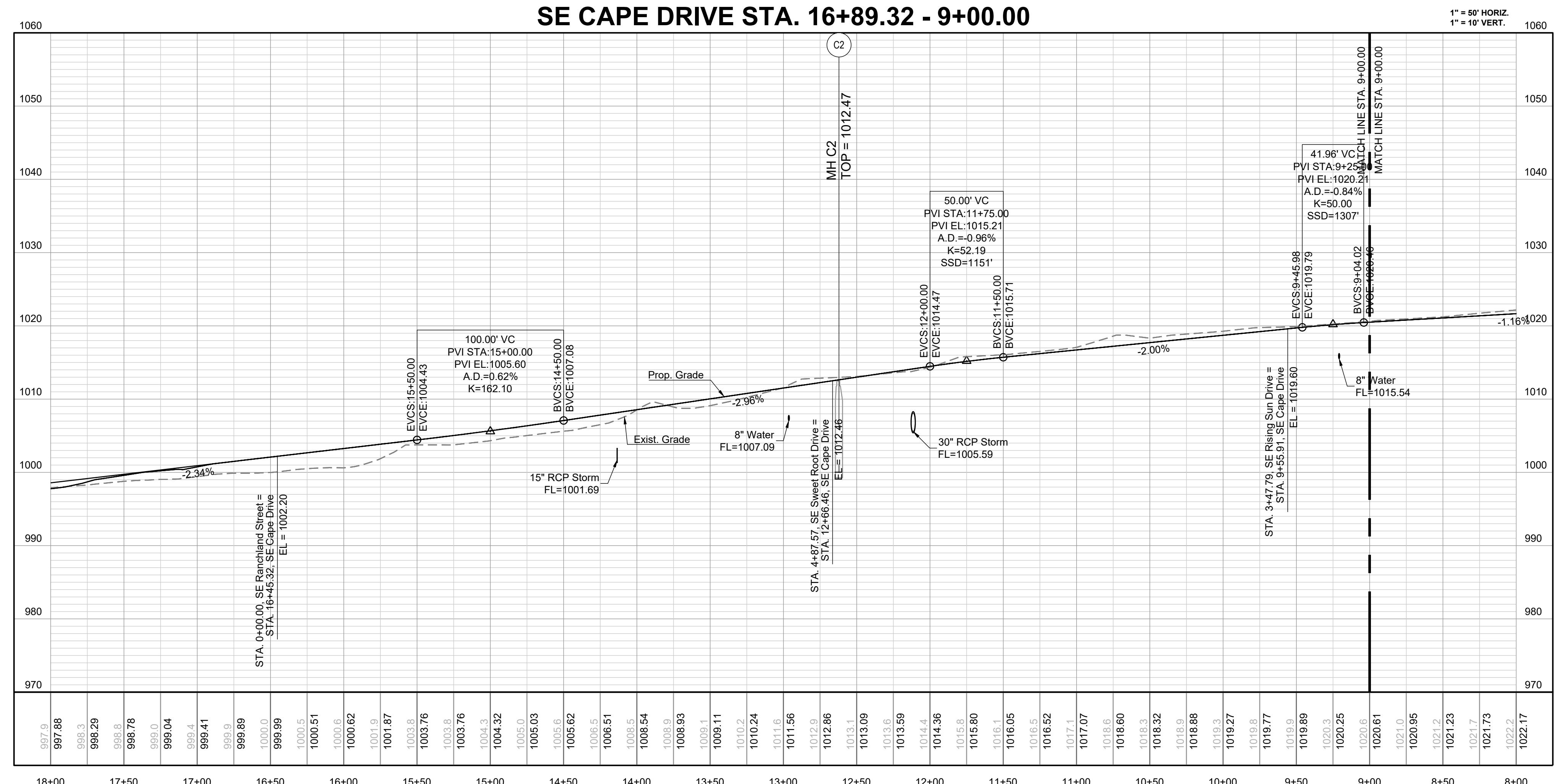
STATE OF MISSOURI
JAMES L.
LONG
10/27/2023
PROFESSIONAL ENGINEER
SCHLAGEL & ASSOCIATES, P.A.

PREPARED BY:
SCHLAGEL & ASSOCIATES, P.A.

ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street Lenexa Kansas 66215
(913) 492-5158 • Fax: (913) 492-3400
WWW.SCHLAGELASSOCIATES.COM
MAIL: SCHLAGEL@GMAIL.COM
#E2020038005 F BLAC201000237 #S2020038859-F

MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

SE CAPE DRIVE STA. 16+89.32 - 9+00.00



15

SHEET	DRAWN BY:	REVISION DATE	DESCRIPTION		
				△ NCA	△ 01/21/2022 City Comments dated 01/21/2022
CAPE DR WEST PLAN & PROFILE	CHECKED BY:	△ 04/20/2022	City Comments dated 04/20/2022	△ 04/20/2022	City Comments dated 04/20/2022
	JLL	△ 05/17/2022	Revised Details to current 2022 Details	△ 05/17/2022	Revised Details to current 2022 Details
	DATE PREPARED:	△ 10/05/2021		△ 10/27/2023	
	PROJ. NUMBER:	△ 11052021		△ 10/27/2023	
	21-130				

**MISSOURI GEOGRAPHIC REFERENCE SYSTEM
BENCHMARK:**

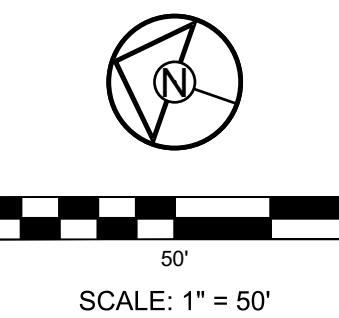
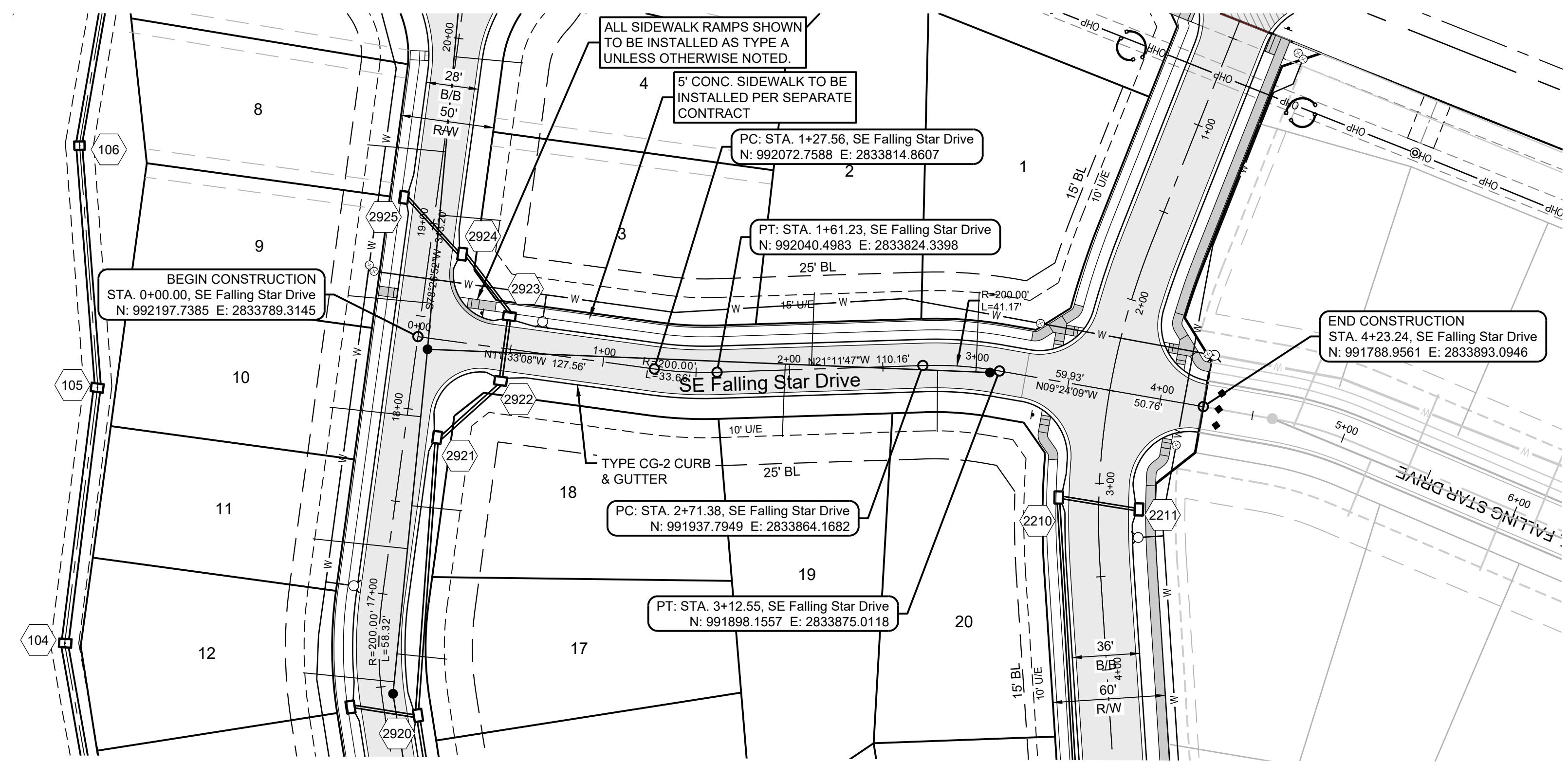
BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

NOTES:

ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEES SUMMIT TECHNICAL SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.



SCALE: 1" = 50'

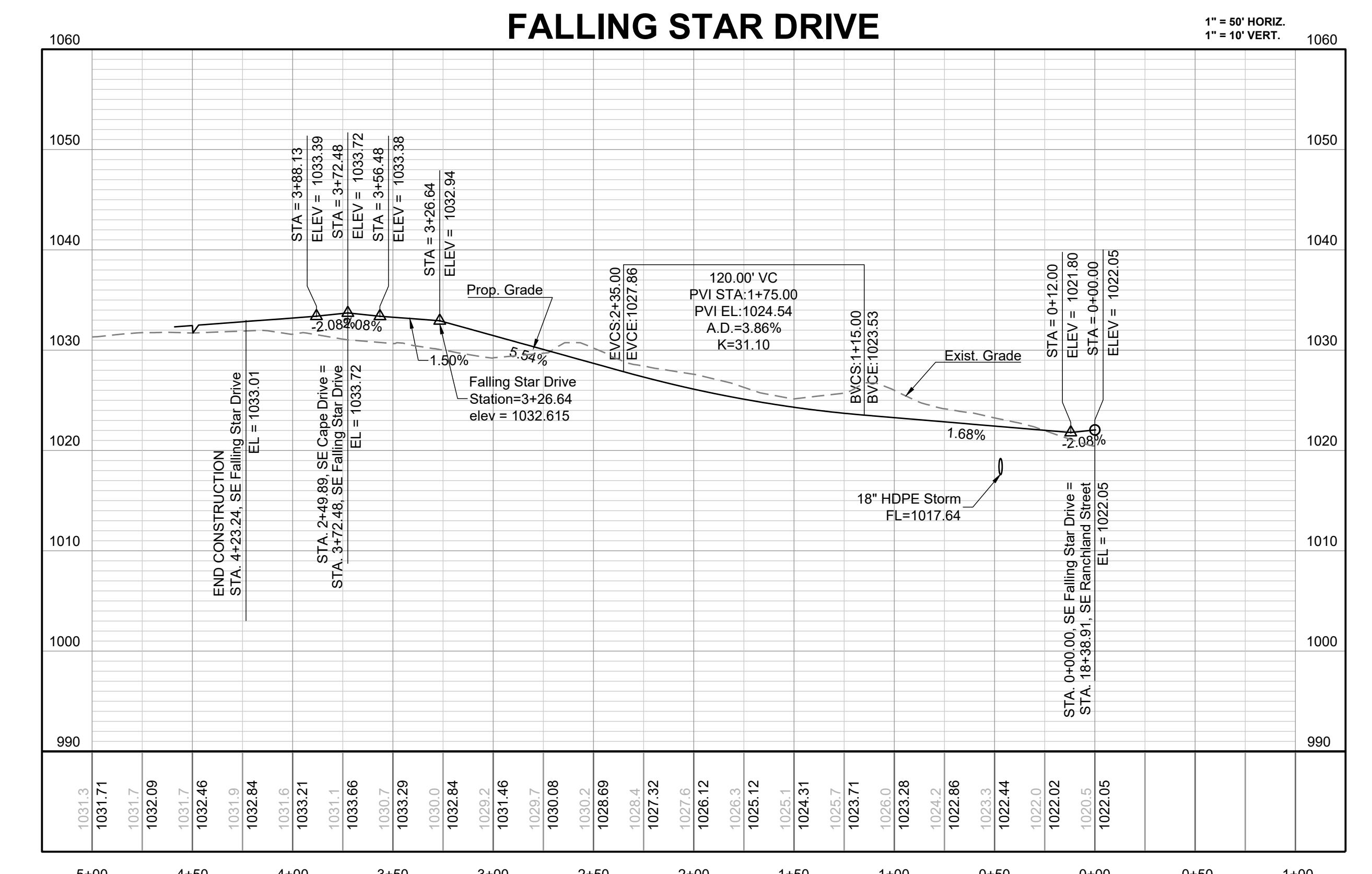
SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street Lenexa Kansas 66215
(913) 492-5158 • Fax: (913) 492-3400
WWW.SCHLAGELASSOCIATES.COM
MAIL: SCHLAGEL@CLOUD.MAIL.COM
#E2020038005 F BLAC20101000237 4LS202003859-F

PREPARED BY:

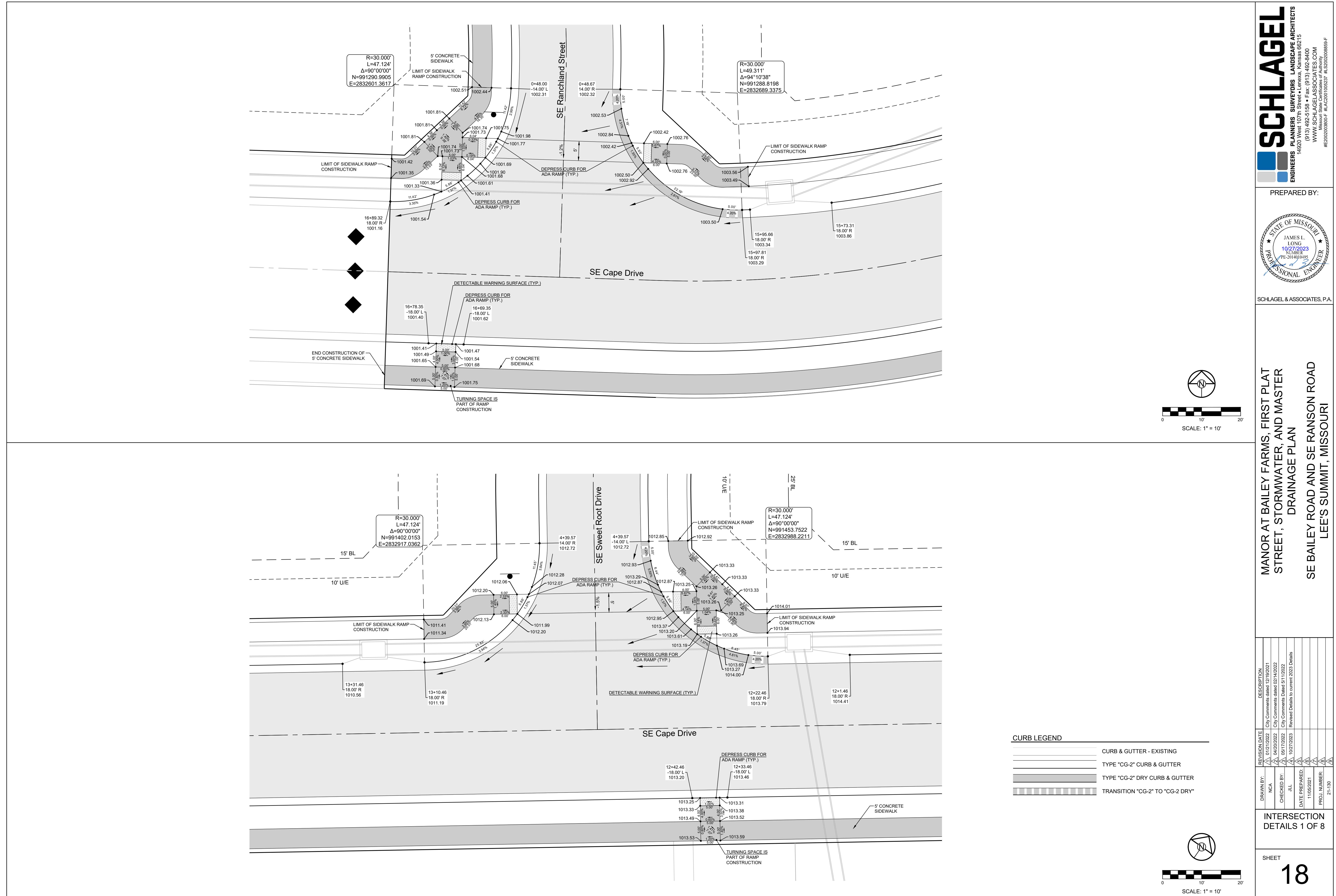
JAMES L. LONG
NUMBER 1027/2023
PE-201004495
PROFESSIONAL ENGINEER

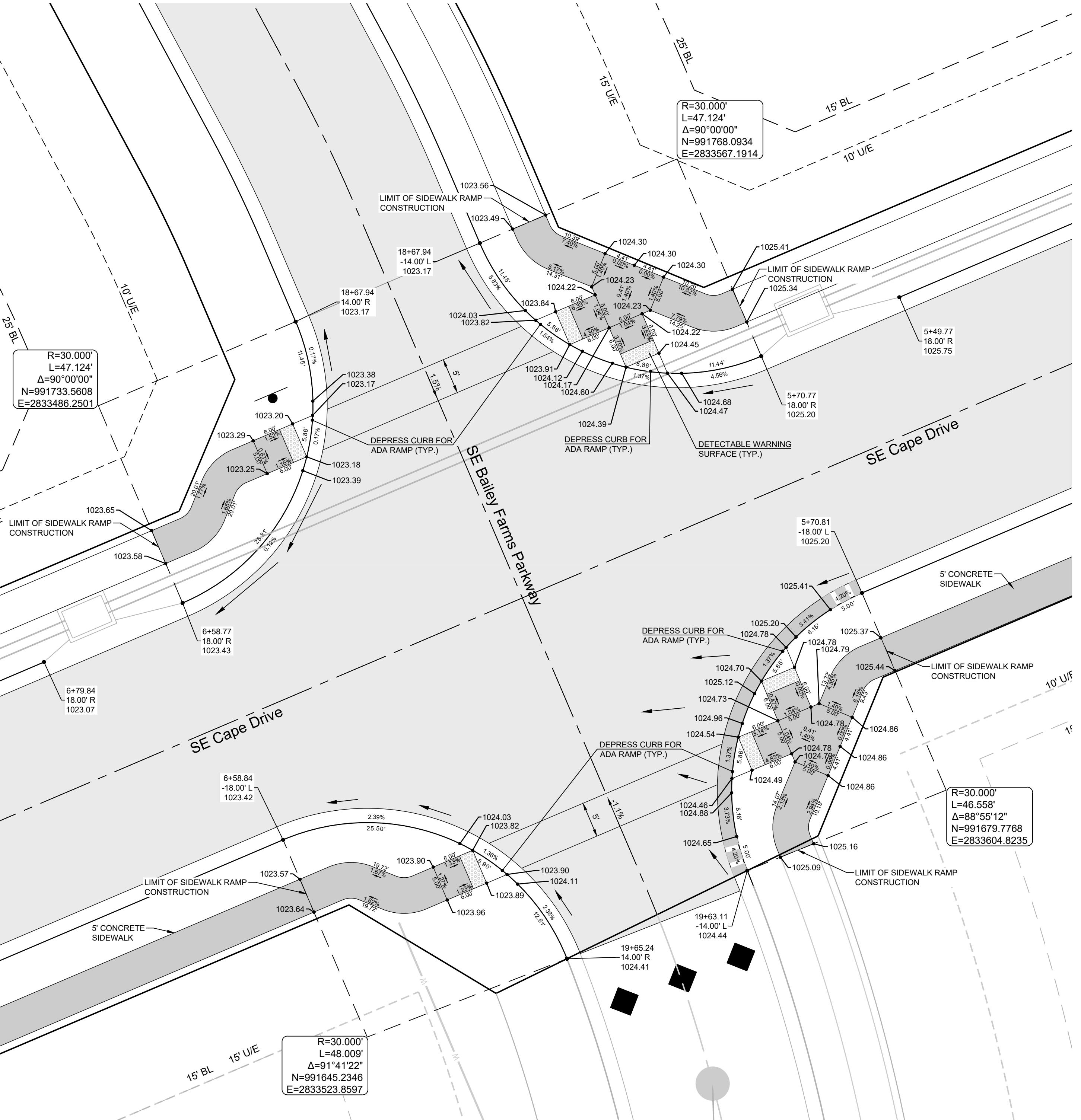
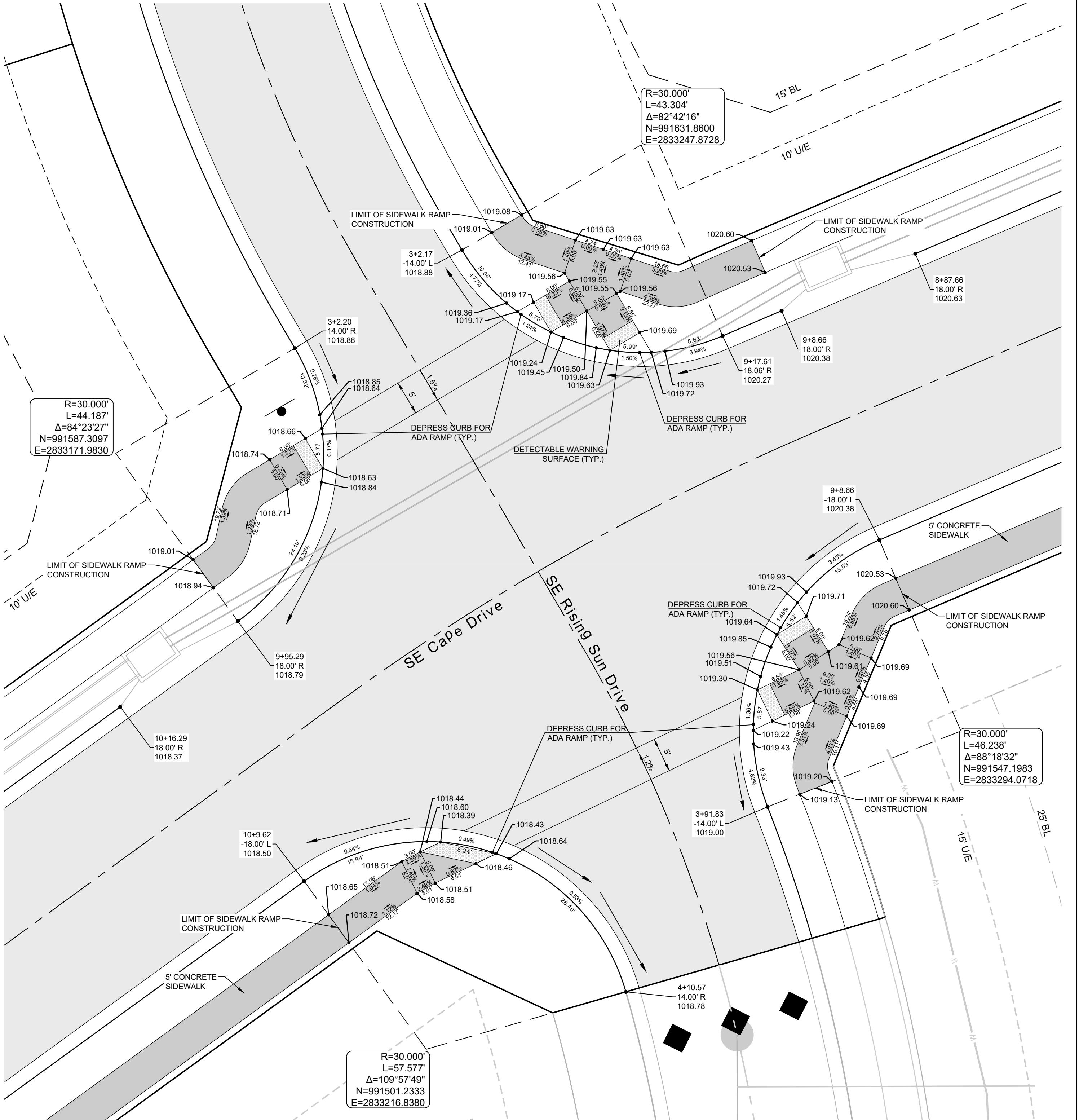
SCHLAGEL & ASSOCIATES, P.A.

FALLING STAR DRIVE
MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI



SHEET	DRAWN BY: NCA	REVISION DATE: 01/21/2021	DESCRIPTION	
			City Comments dated 01/21/2021	City Comments dated 01/21/2022
CHECKED BY: JLL	DATE PREPARED: 1/10/2021	City Comments dated 01/21/2022		Revised Details to current 2023 Details
		City Comments dated 01/21/2022	Revised Details to current 2023 Details	
PROJ. NUMBER: 21-130	FALLING STAR DR PLAN & PROFILE			





**MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER DRAINAGE
PLAN**

SE BAILEY ROAD AND SE RANSON ROAD

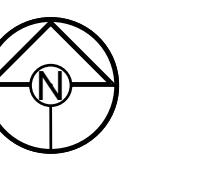
EE'S SUMMIT MISSOURI

The seal is circular with a rope-like outer border. The words "STATE OF MISSOURI" are at the top, "JAMES L. LONG" are in the center, and "NUMBER PE-2014010495" are below. A blue signature "Homer S. Long" is written across the center. The bottom half of the seal contains the words "PROFESSIONAL ENGINEER".

SCHLAGEL & ASSOCIATES, P

SCHLAGEL
PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
4920 West 107th Street • Lenexa, Kansas 66215
(913) 492-5158 • Fax: (913) 492-8400

DRAWN BY:		REVISION DATE	DESCRIPTION
NCA		1 01/21/2022	City Comments dated 12/19/2021
		2 04/20/2022	City Comments dated 02/14/2022
CHECKED BY:		3 05/17/2022	City Comments Dated 5/11/2022
JLL		4 10/27/2023	Revised Details to current 2023 Details
DATE PREPARED:		5	
		6	
		7	
PROJ. NUMBER:		8	
		9	
<p>INTERSECTION DETAILS 2 OF 8</p> <p>SHEET</p> <p>19</p>			



10'
SCALE: 1" = 10'

SCALE: 1" = 10'

CLUB LEGEND

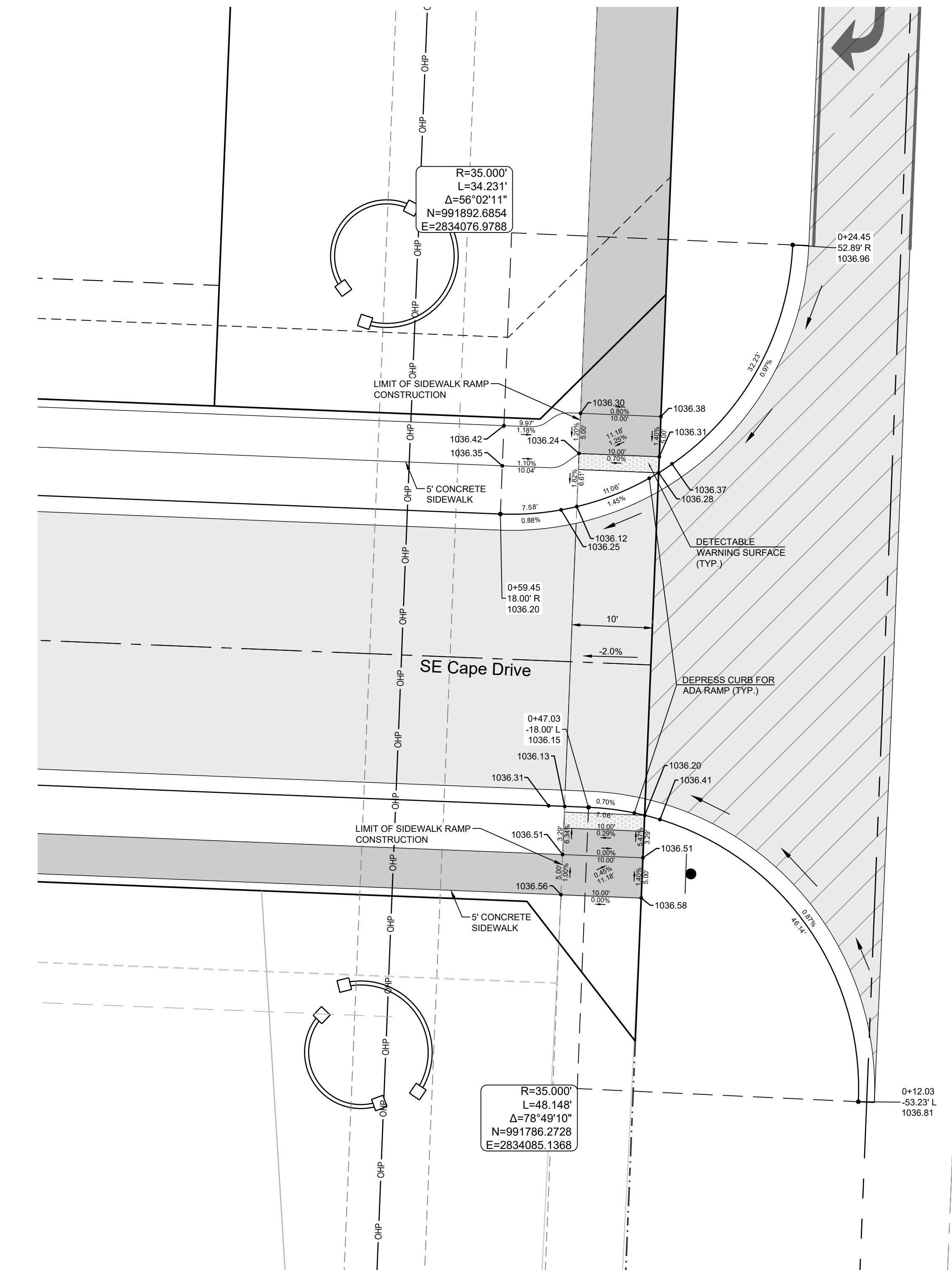
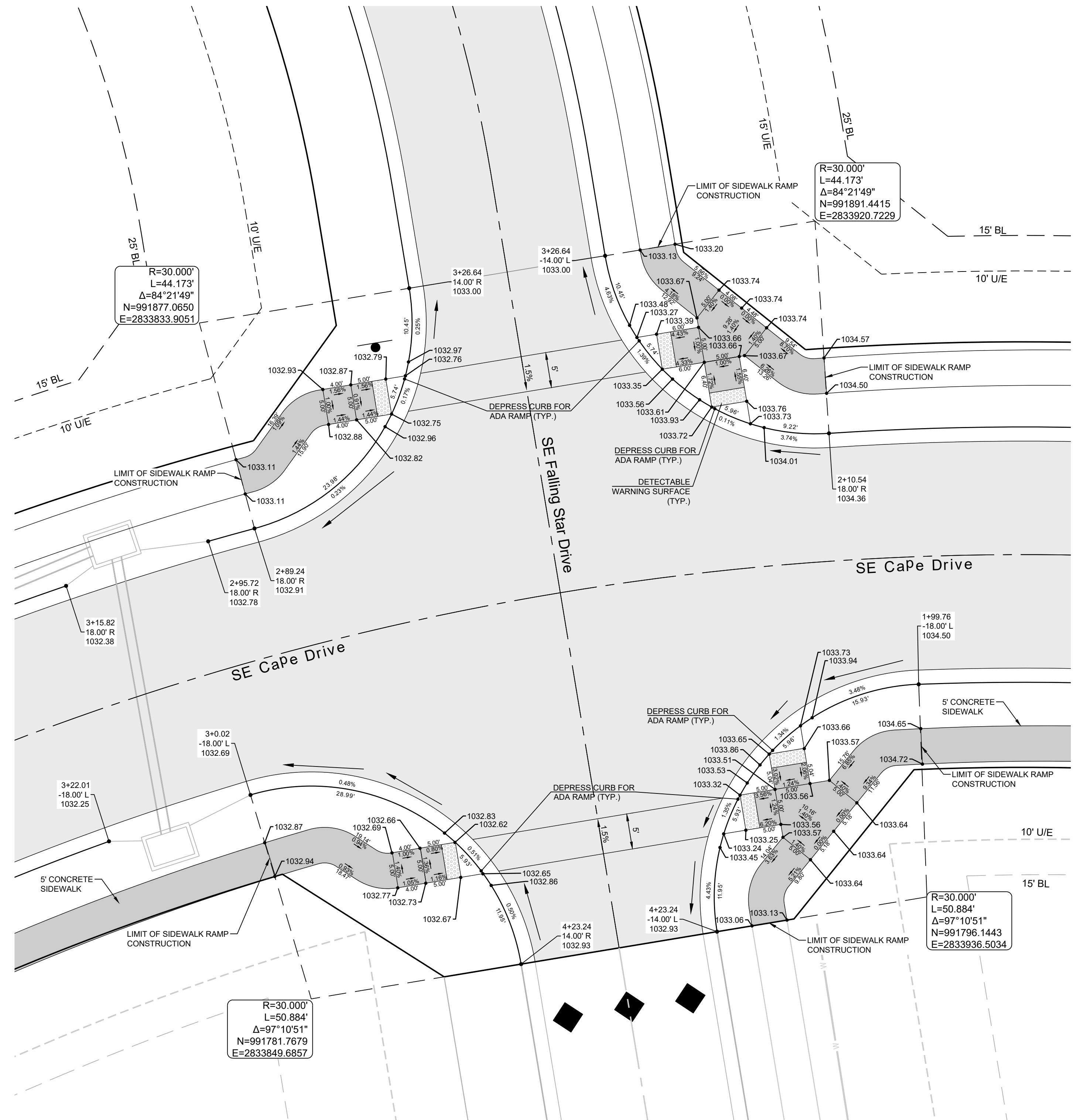
CURB & GUTTER - EXISTING

TYPE "CG-2" CURB & GUTTER

TYPE "CG-2" DRY CURB & GUTTER

TRANSITION "CG-2" TO "CG-2 DRY"

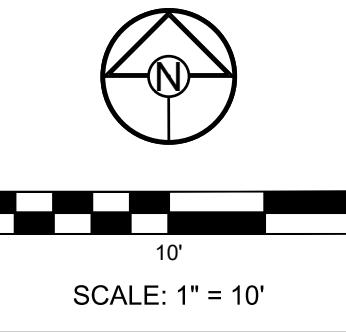
19



CURB LEGEND

- CURB & GUTTER - EXISTING
- TYPE "CG-2" CURB & GUTTER
- TYPE "CG-2" DRY CURB & GUTTER
- TRANSITION "CG-2" TO "CG-2 DRY"

INTERSECTION DETAILS 3 OF 8	
SHEET	DRAWN BY: <input checked="" type="checkbox"/> NCA REVISED DATE: 01/21/2022 CHECKED BY: <input checked="" type="checkbox"/> CITY COMMENTS: dated 01/21/2022 <input checked="" type="checkbox"/> CITY COMMENTS: dated 01/11/2022 REVISED DATE: to current 2023 Details DATE PREPARED: <input checked="" type="checkbox"/> 10/27/2023 PROJ. NUMBER: 11052021 SHEET: 21-130



20

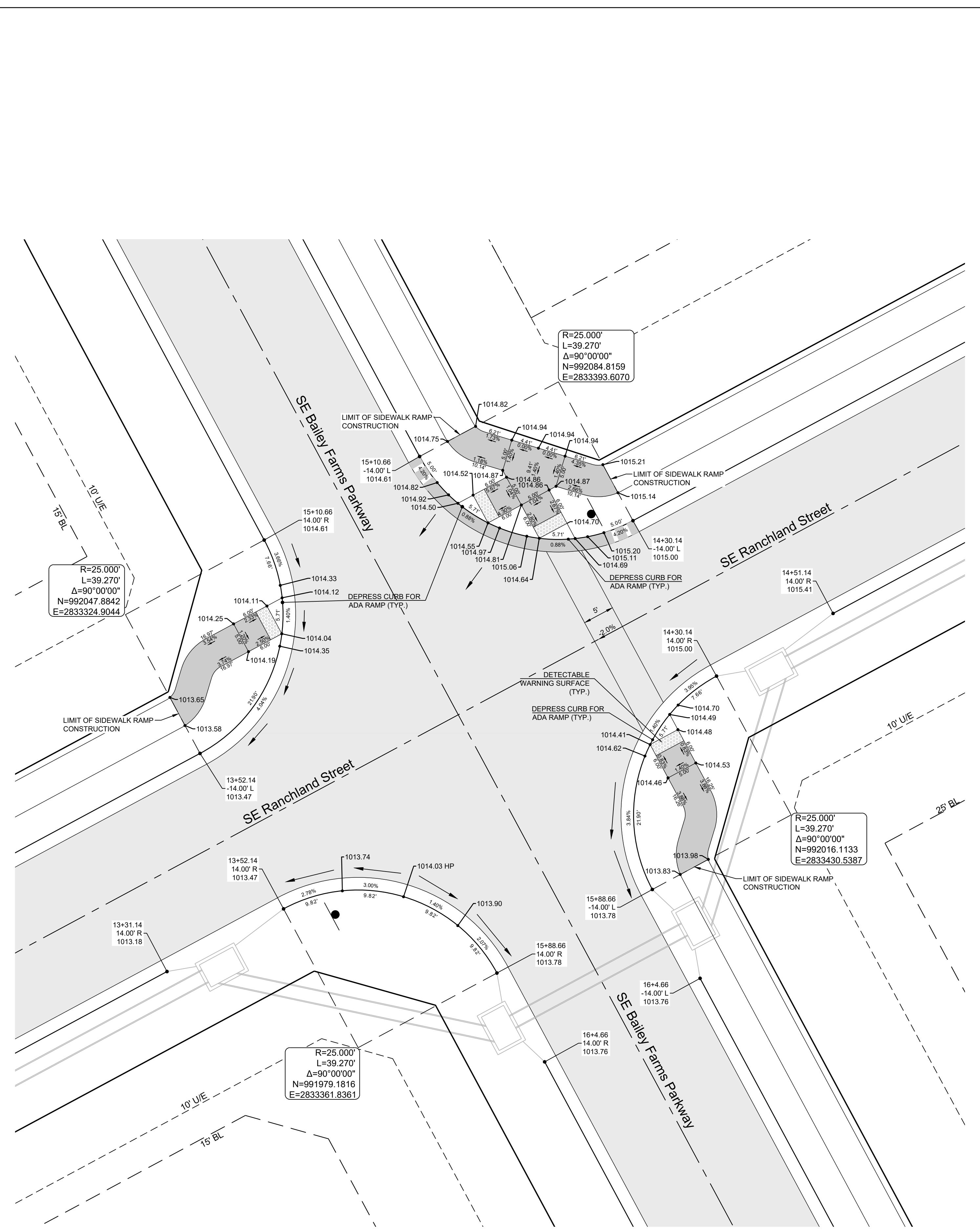
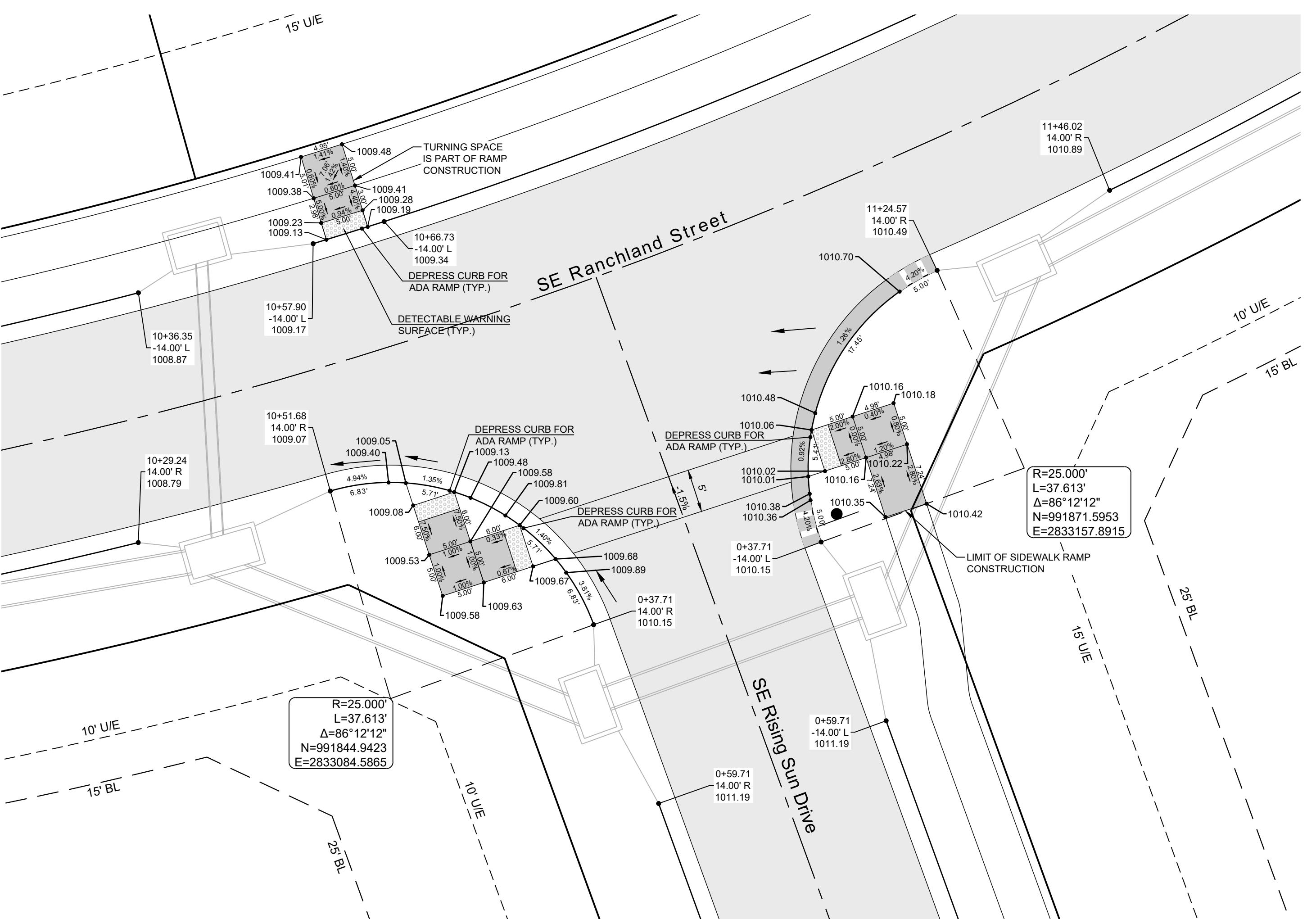
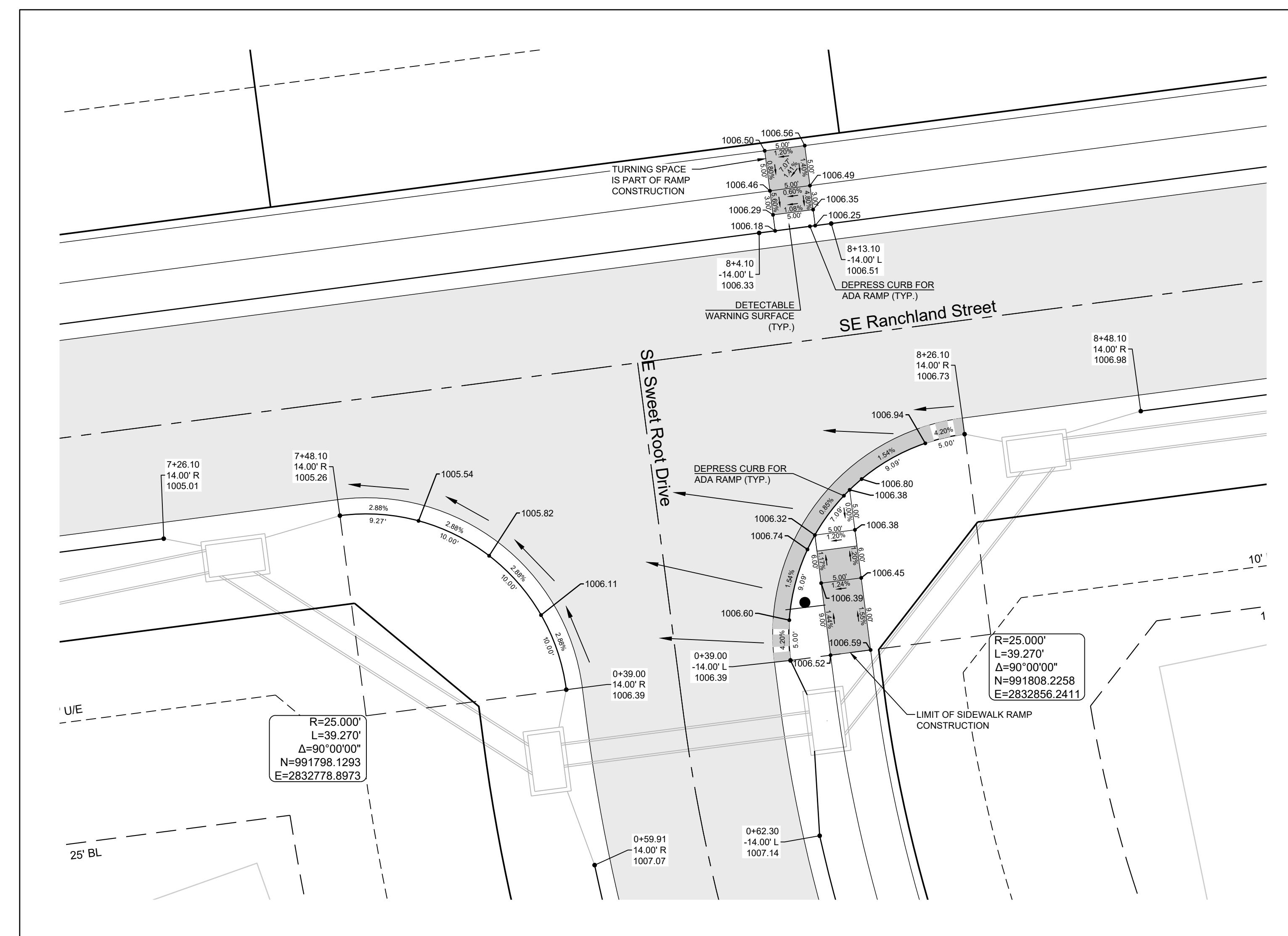
SCHLAGEL
 ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
 14920 West 107th Street Lenexa Kansas 66215
 (913) 492-5158 • Fax: (913) 492-3400
 WWW.SCHLAGELASSOCIATES.COM
 MAIL: SCHLAGEL ASSOCIATES, INC., P.O. BOX 1000237, #5202038005 F-BLAC20101000237 #5202038859-F



STATE OF MISSOURI
 JAMES L.
 LONG
 10/27/2023
 NUMBER:
 PE-201004495

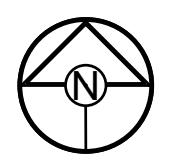
SCHLAGEL & ASSOCIATES, P.A.

MANOR AT BAILEY FARMS, FIRST PLAT
 STREET, STORMWATER, AND MASTER
 DRAINAGE PLAN
 SE BAILEY ROAD AND SE RANSON ROAD
 LEE'S SUMMIT, MISSOURI

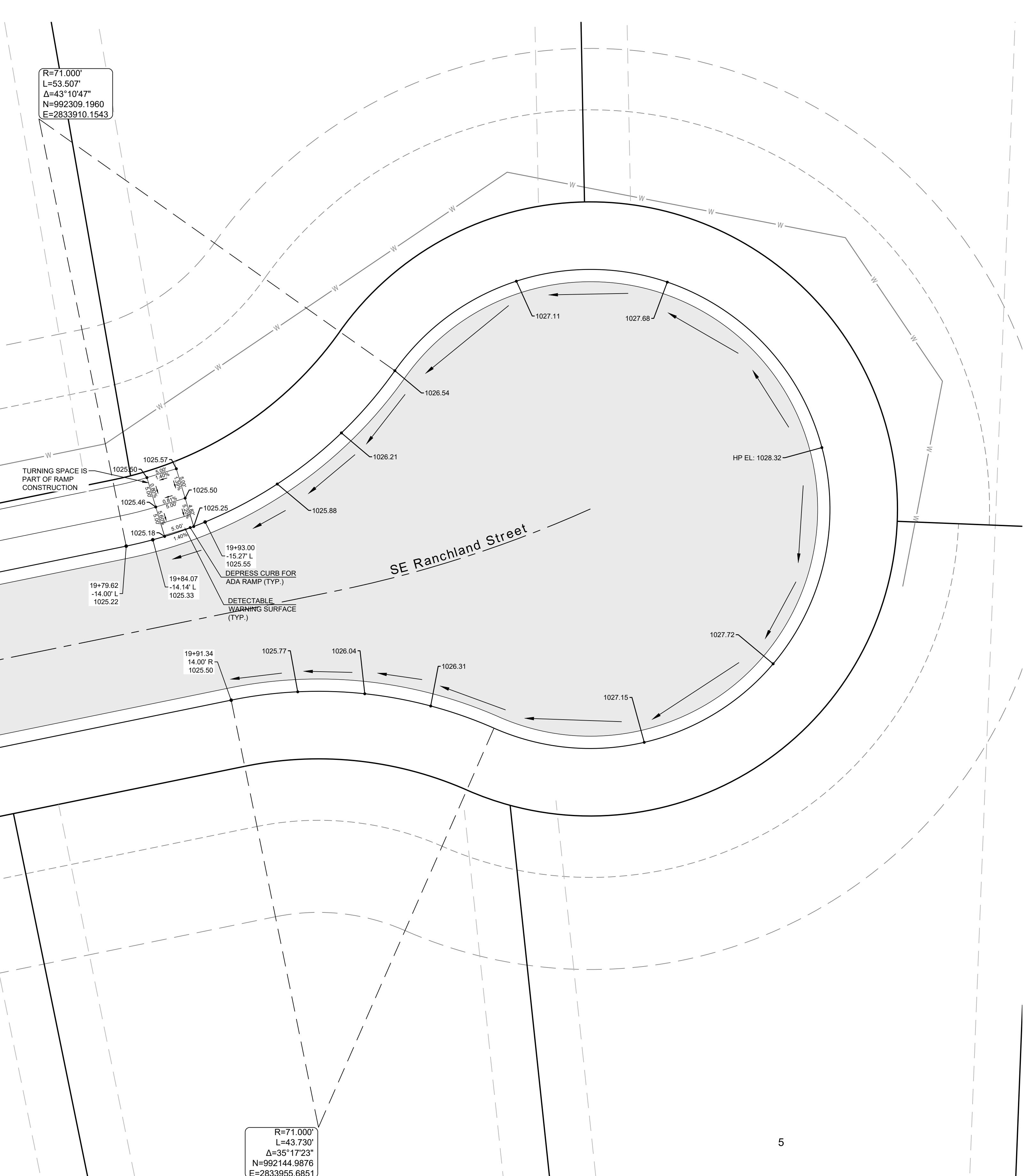
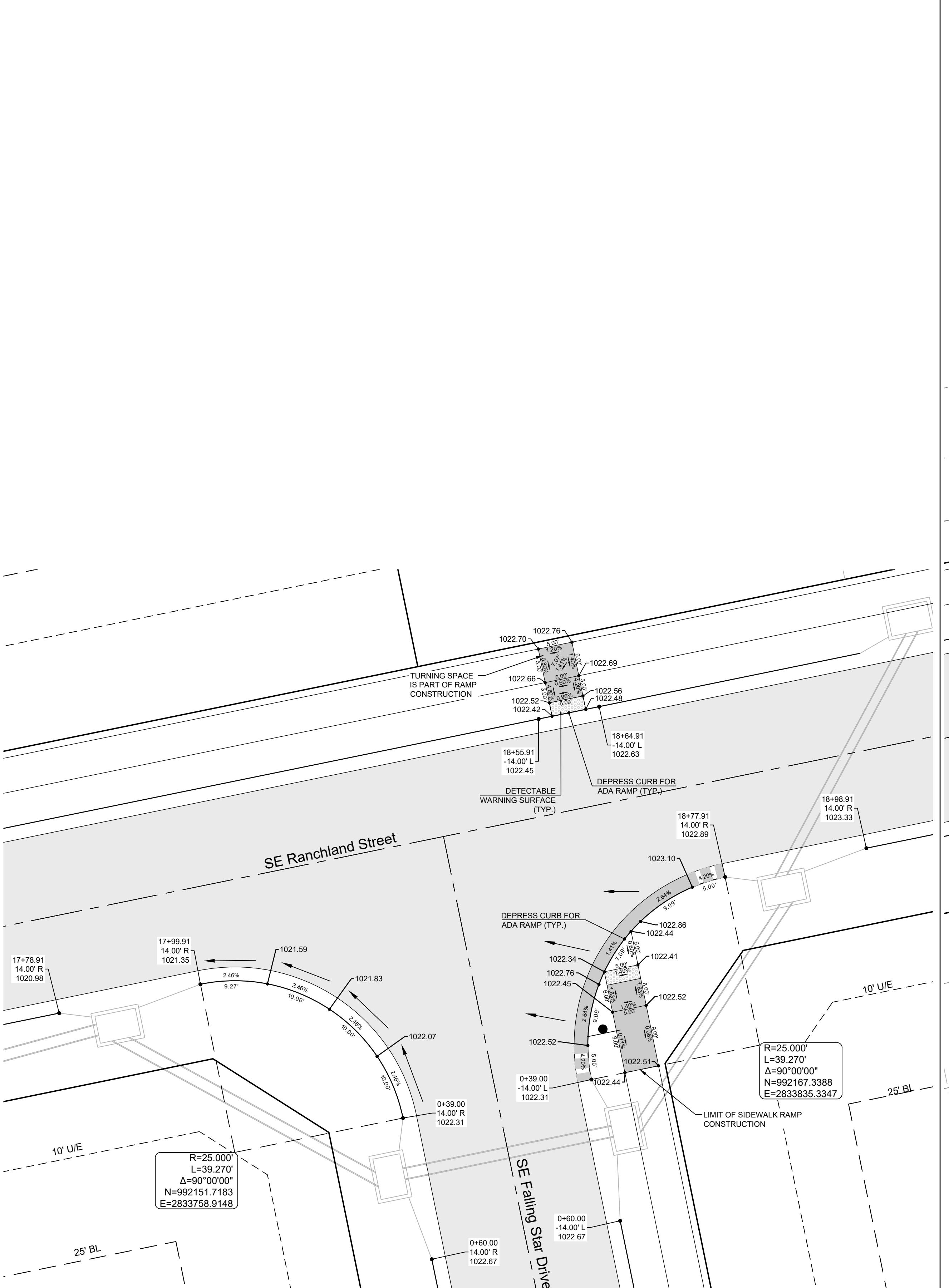


CLUB LEGEND

	CURB & GUTTER - EXISTING
	TYPE "CG-2" CURB & GUTTER
	TYPE "CG-2" DRY CURB & GUTTER
	TRANSITION "CG-2" TO "CG-2 DRY"

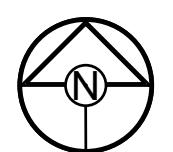


2

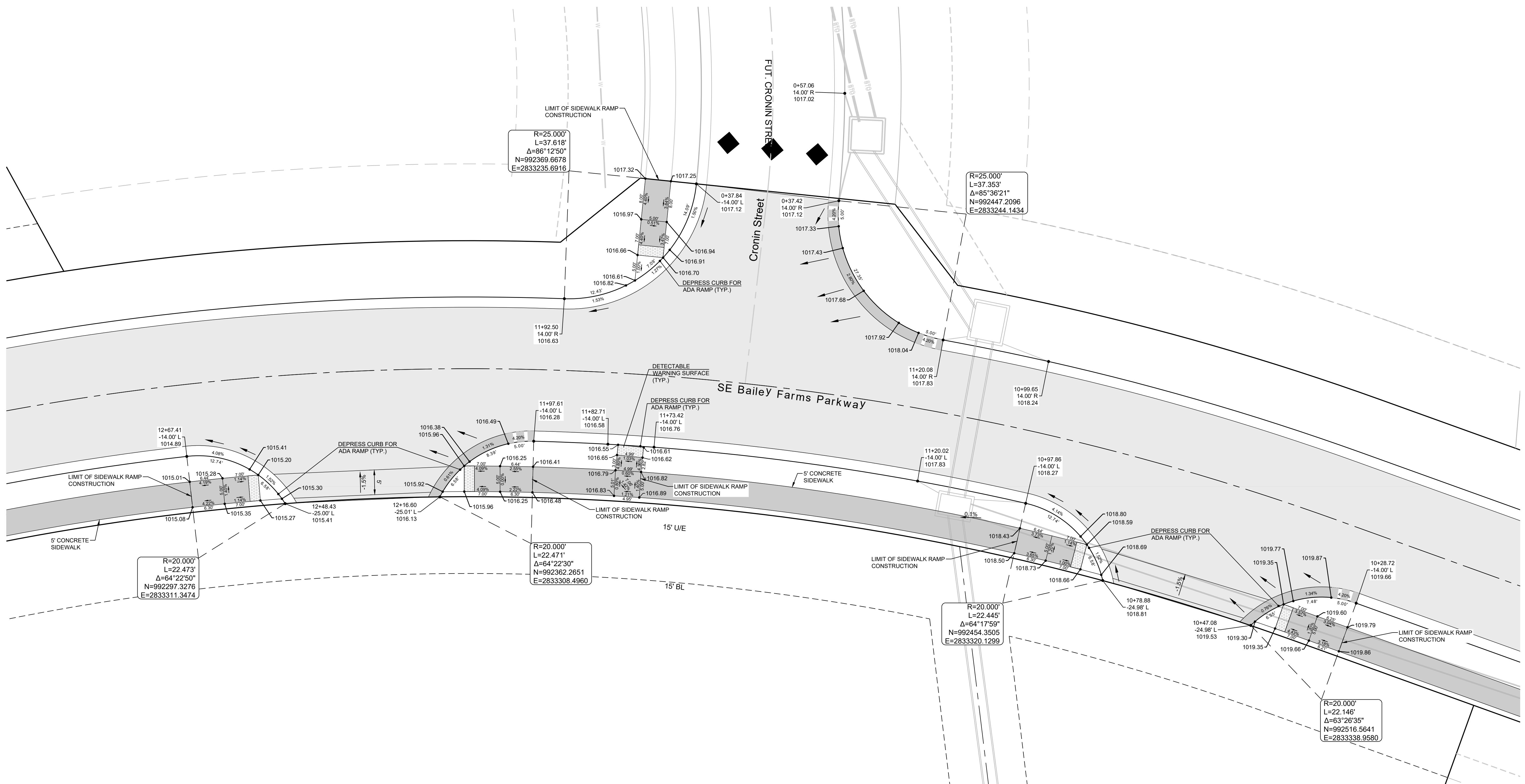


CURB LEGEND

- CURB & GUTTER - EXISTING
- TYPE "CG-2" CURB & GUTTER
- TYPE "CG-2" DRY CURB & GUTTER
- TRANSITION "CG-2" TO "CG-2 DRY"



INTERSECTION DETAILS 5 OF



CURB LEGEND

- CURB & GUTTER - EXISTING
- TYPE "CG-2" CURB & GUTTER
- TYPE "CG-2" DRY CURB & GUTTER
- TRANSITION "CG-2" TO "CG-2 DRY"

0 10' 20'
SCALE: 1" = 10'

23

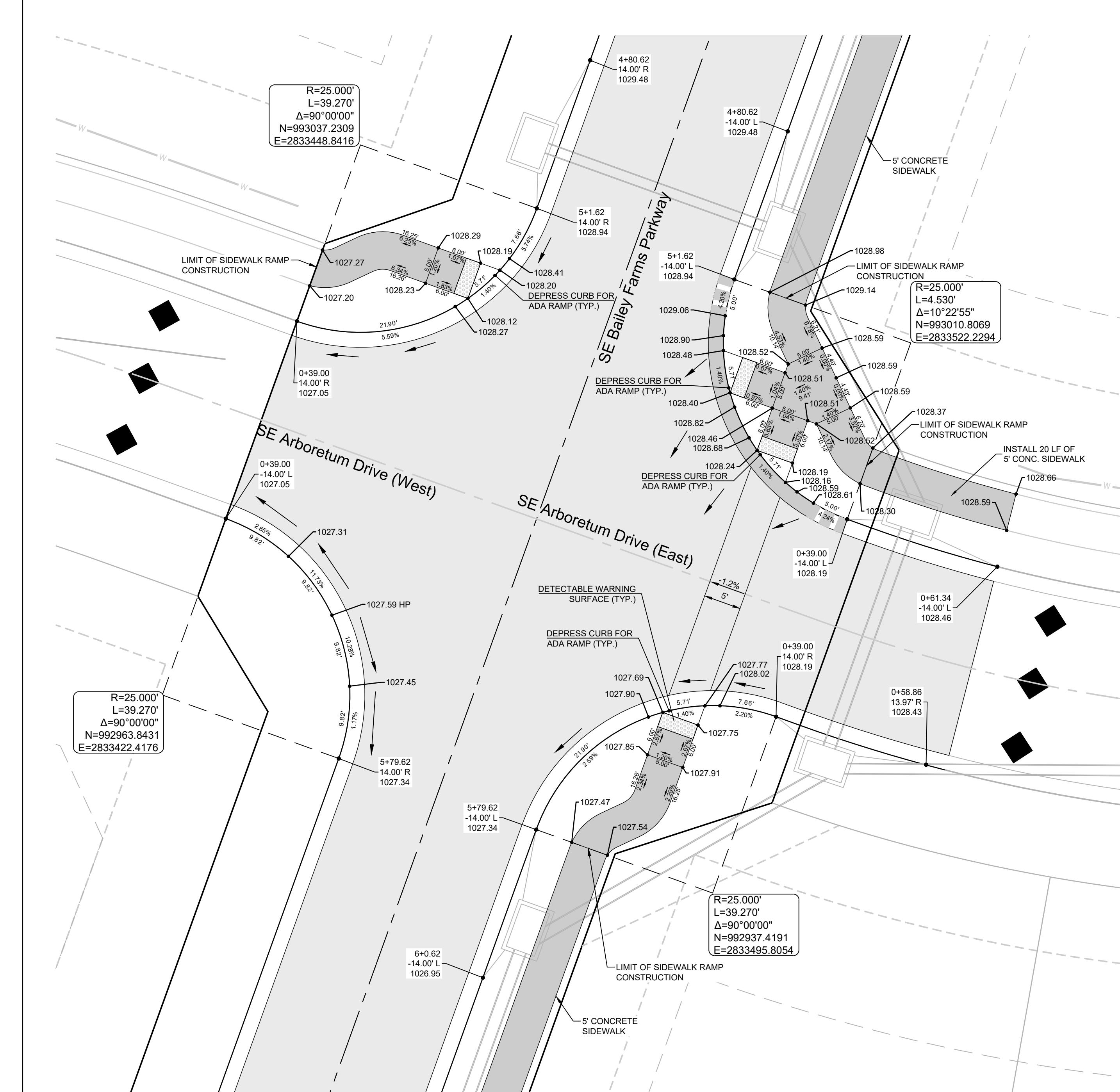
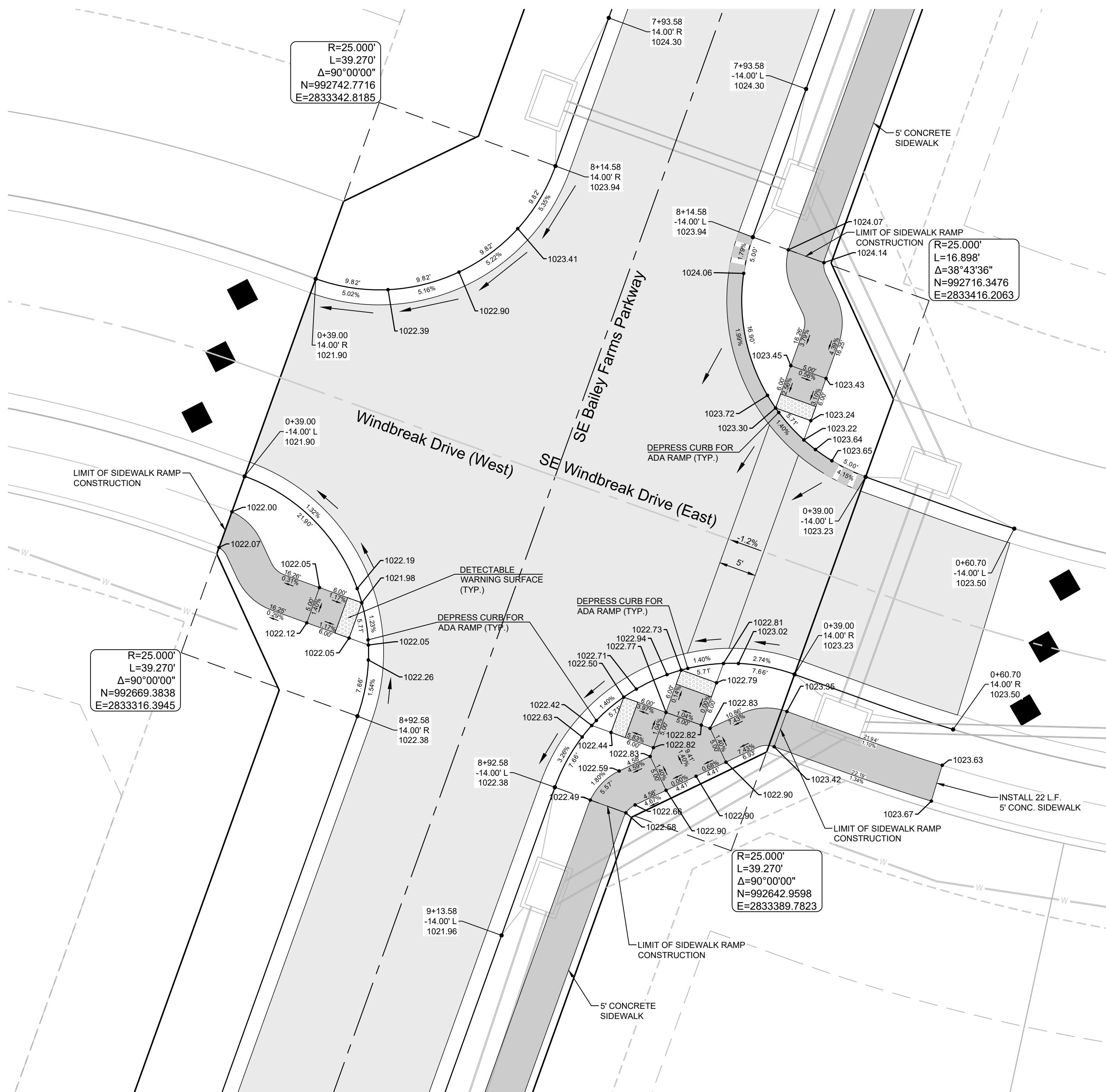
SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street Lenexa Kansas 66215
(913) 492-5158 • Fax: (913) 492-3400
WWW.SCHLAGELASSOCIATES.COM
MAILING ADDRESS: PO BOX 2000 F, BLDG C, SUITE 100, LENEXA, KS 66215
#E2020038005 F BLDC201000237 S202003859-F

PREPARED BY:

JAMES L.
LONG
10/27/2023
NUMBER
PE-20104495
PROFESSIONAL ENGINEER

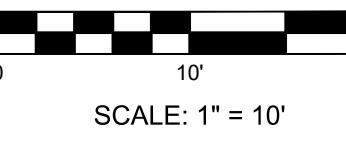
MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

INTERSECTION DETAILS 6 OF 8		DESCRIPTION
DRAWN BY:	JLL	REVISION DATE 01/21/2022 City Comments dated 01/21/2022
NCA		01/20/2022 City Comments dated 01/20/2022
CHECKED BY:		01/21/2022 City Comments dated 01/21/2022
JLL		Revised Details to current 2023 Details 01/27/2023
DATE PREPARED:		
11/05/2021		
PROJ. NUMBER:		
21-130		



CURB LEGEND

- CURB & GUTTER - EXISTING**
- TYPE "CG-2" CURB & GUTTER**
- TYPE "CG-2" DRY CURB & GUTTER**
- TRANSITION "CG-2" TO "CG-2 DRY"**



24

SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street Lenexa Kansas 66215
(913) 492-5158 • Fax: (913) 492-3400
WWW.SCHLAGELASSOCIATES.COM
MAILING ADDRESS: SCHLAGEL ASSOCIATES, INC.
#E2020038005 F BLAC2010000237 AL5202008895-F

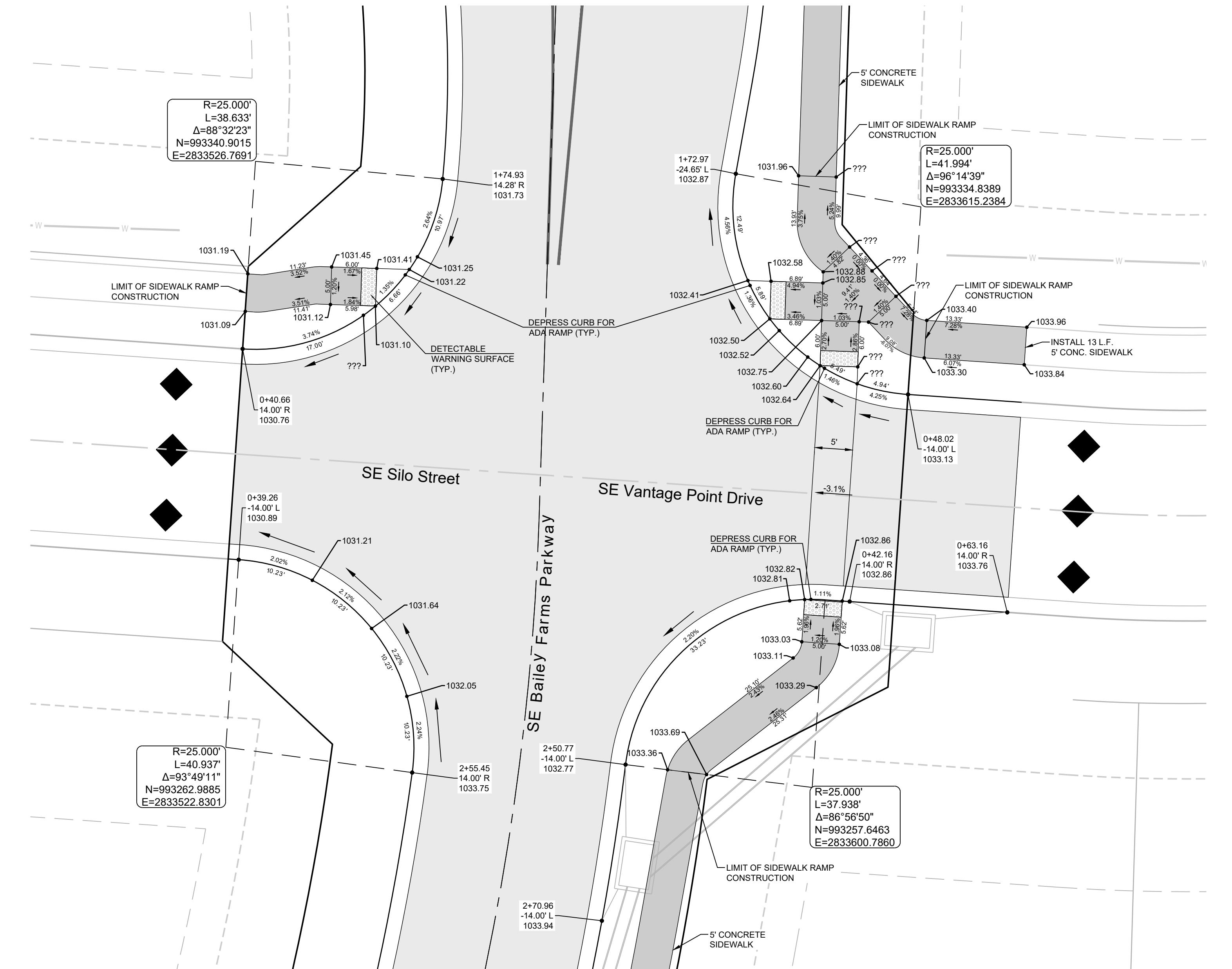


PREPARED BY:

SCHLAGEL & ASSOCIATES, P.A.

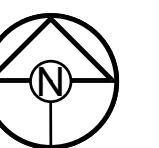
MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

SHEET	DRAWN BY: NCA	REVISION DATE: 01/21/2022	DESCRIPTION	
			City Comments dated 01/21/2022	City Comments dated 02/14/2022
CHECKED BY: JLL	DATE PREPARED: 10/27/2023	City Comments dated 02/14/2022	Revised Details to current 2022 Details	
			11/05/2021	11/05/2021
PROJ. NUMBER: 21-130				
INTERSECTION DETAILS 7 OF 8				



****NEED TO BE UPDATED PER NEW STREET PROFILE AND SECTION.
NO LONGER CROWNED NORTH OF INTERSECTION. WILL NEED DRY CURB.**

CURB LEGEND	
	CURB & GUTTER - EXISTING
	TYPE "CG-2" CURB & GUTTER
	TYPE "CG-2" DRY CURB & GUTTER
	TRANSITION "CG-2" TO "CG-2 DRY"



25

**MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN**

**SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI**

ALLEY FARMS, FIRST PLAT
DRYWATER, AND MASTER
RAINAGE PLAN
ROAD AND SE RANSON ROAD
SUMMIT, MISSOURI

The seal is circular with a rope-like outer border. The words "STATE OF MISSOURI" are at the top and "PROFESSIONAL ENGINEER" are at the bottom. The date "10/27/2023" and number "PE-2014010495" are in the center. A signature "James L. Long" is written across the date. Two stars are on either side of the center circle.

SCHLAGEL PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street • Lenexa, Kansas 66215
(913) 492-5158 • Fax: (913) 492-8400

SCHLAGEL PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street • Lenexa, Kansas 66215
(913) 492-5158 • Fax: (913) 492-8400

PREPARED BY:



JAMES L.
LONG
10/27/2023
PE-20104495
PROFESSIONAL ENGINEER

SCHLAGEL & ASSOCIATES, P.A.

MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

MASTER
DRAINAGE
PLAN-DRAINAGE
MAP

SHEET

26

SCALE: 1" = 100'

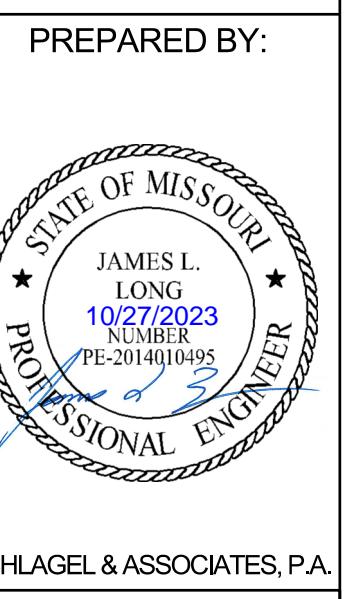
0 100' 200'

MISSOURI GEOGRAPHIC REFERENCE SYSTEM
BENCHMARK:

BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND
ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE
RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25





SCHLAGEL & ASSOCIATES, P.A.

**MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER AND MASTER
DRAINAGE PLAN**
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

DRAWN BY:	REVISION DATE:	DESCRIPTION
NCA	1/1/2022	City Comments dated 01/21/2022
	1/2/2022	City Comments dated 01/21/2022
	1/3/2022	City Comments dated 01/21/2022
		Revised Details to current 2022 Details

DATE PREPARED:	PROJ. NUMBER:
1/10/2021	3
1/10/2021	3

21-10

MASTER
DRAINAGE
PLAN-DRAINAGE
CALCS

SHEET

27

10-YEAR RUNOFF CALCULATIONS

Runoff Calculations																									
Inlet #	Area # (acres)	"C" Value	Cumul. Area (acres)	Cumul. Cx A	To Intensity	Runoff Cumul.	Pipe Pipe Vel.	Up Piped Inlet 1	Up Piped Inlet 2 (acres)	Up Area Cx A	Up Inlet 1	Up Inlet 2	Type	"n"	Pipe Size	Length	Slope %	Drop Inlet	Pipe Properties						
LINE 100	101	0.26	0.66	20.41	12.07	6.5	6.92	1.19	83.50	120.18	9.56	0.00	0.00	101	100	RCP	0.013	48	118.84	0.70	0.40	1005.84	1005.00	1014.24	
	102	0.70	0.66	20.15	11.90	6.4	6.94	3.20	82.51	120.18	9.56	0.00	0.00	102	101	RCP	0.013	48	35.00	0.70	0.40	1006.48	1006.24	1014.24	
	103	0.95	0.81	19.45	11.63	6.1	7.02	5.40	80.24	112.27	8.85	0.00	0.00	103	102	RCP	0.013	48	156.87	0.60	0.40	1007.83	1006.88	1015.65	
	104	0.55	0.81	18.50	10.67	5.9	7.08	3.15	75.46	100.61	10.46	0.00	0.00	104	103	RCP	0.013	42	125.83	1.00	0.40	1009.49	1008.23	1017.10	
	105	0.65	0.81	17.95	10.22	5.7	7.14	3.76	72.95	100.61	10.46	0.00	0.00	105	104	RCP	0.013	42	137.76	1.00	0.40	1011.27	1009.89	1018.10	
	106	1.50	0.81	17.36	9.69	5.5	7.21	8.76	69.85	89.99	9.35	0.00	0.00	106	105	RCP	0.013	42	129.88	0.80	0.40	1012.71	1011.67	1019.10	
	107	2.80	0.81	16.58	8.48	5.1	7.33	13.55	62.18	76.05	10.76	0.00	0.00	107	106	RCP	0.013	36	274.16	1.30	2.39	1016.67	1013.11	1024.75	
	108	13.00	0.51	13.00	6.63	5.0	7.33	48.75	48.75	61.49	8.70	0.00	0.00	108	107	RCP	0.013	36	30.70	0.85	N/A	1019.33	1019.06	1025.10	
LINE 1000	1001	0.00	0.66	14.68	10.02	8.3	6.45	0.00	64.59	67.78	9.59	0.00	0.00	1001	1000	HDPE	0.012	36	35.00	0.88	0.30	999.49	999.18	1010.90	
	1002	1.18	0.66	14.65	10.02	8.1	6.50	0.00	65.12	72.26	10.22	0.00	0.00	1002	1001	HDPE	0.012	36	135.00	1.00	0.30	1001.14	999.73	1010.90	
	1003	0.35	0.66	14.65	10.02	7.7	6.60	3.41	66.16	67.9	9.14	0.00	0.00	1003	1002	HDPE	0.012	36	238.81	0.80	0.40	1004.66	1003.99	1014.95	
	1004	0.15	0.66	14.17	7.5	6.55	6.48	60.63	64.63	67.4	9.14	0.00	0.00	1004	1003	HDPE	0.012	36	94.80	0.80	0.40	1004.48	1003.70	1016.07	
	1005	0.06	0.66	13.06	8.97	7.3	6.70	6.66	60.91	64.63	9.14	0.00	0.00	1005	1004	HDPE	0.012	36	118.64	0.80	0.40	1005.81	1004.86	1017.25	
	1006	0.22	0.66	12.91	8.87	7.2	6.72	0.27	59.63	64.63	9.14	1301	0.30	0.20	1006	1005	HDPE	0.012	36	43.60	0.80	0.40	1006.56	1006.21	1018.09
	1007	0.25	0.66	12.56	8.63	7.2	6.74	0.98	58.18	64.63	9.14	1801	0.25	0.17	1007	1006	HDPE	0.012	36	36.49	0.80	1.00	1007.35	1006.86	1018.08
	1008	0.15	0.66	6.55	4.32	6.7	6.66	1.13	29.64	31.00	9.87	0.00	0.00	1008	1007	HDPE	0.012	24	203.36	1.60	0.40	1011.50	1008.25	1022.19	
	1009	0.25	0.66	6.30	4.16	6.7	6.88	0.68	28.59	34.49	10.98	1201	1.06	0.70	1009	1008	HDPE	0.012	24	45.39	1.98	0.40	1012.80	1011.90	1023.40
	1010	0.95	0.66	3.36	6.6	6.89	1.14	23.15	30.17	9.60	1202	0.76	0.50	1010	1009	HDPE	0.012	24	34.98	1.52	0.40	1013.73	1013.20	1023.40	
	1011	0.20	0.66	4.08	2.69	6.5	6.92	4.34	18.63	24.01	7.64	0.00	0.00	1011	1010	HDPE	0.012	24	41.71	0.96	0.40	1014.53	1014.13	1024.16	
	1012	0.55	0.66	3.13	2.07	6.3	6.97	0.92	14.41	30.02	9.55	0.00	0.00	1012	1011	HDPE	0.012	24	119.75	1.50	0.50	1016.73	1014.93	1025.83	
	1013	0.30	0.66	2.93	1.93	6.1	7.02	2.55	13.58	16.09	9.11	1501	1.48	0.98	1013	1012	HDPE	0.012	18	94.22	2.00	0.50	1019.11	1017.23	1027.16
	1014	0.20	0.66	0.90	0.59	5.9	7.08	1.40	4.21	16.09	9.11	0.00	0.00	1014	1013	HDPE	0.012	18	45.49	2.00	0.50	1020.52	1019.61	1028.35	
LINE 1300	1301	0.30	0.66	0.30	0.20	5.0	7.35	1.46	1.46	12.12	9.88	0.00	0.00	1301	1010	HDPE	0.012	15	35.00	3.00	N/A	1015.53	1014.48	1024.16	
LINE 1500	1501	0.35	0.66	1.48	0.98	6.1	7.02	1.62	6.86	8.44	4.78	0.00	0.00	1501	1013	HDPE	0.012	18	35.00	0.55	0.3				

GUTTER SPREAD AND INLET CAPACITY CALCULATIONS - MANOR AT BAILEY FARMS, 1ST PLAT																							
DESIGN STORM		10	CURB TYPE "A" = LAZY BACK CURB TYPE "B" = HIGH BACK																				
RUNOFF CALCULATIONS																							
INLET #	COMPOSITE "C"	AREA	INLET Tc	INTENSITY	RUNOFF	UPSTREAM INLET	UPSTREAM INLET	UPSTREAM INLET	UPSTREAM INLET	BYPASS FROM UPSTREAM INLET	TOTAL RUNOFF	STREET GRADE	STREET CROSS SLOPE	CURB TYPE	INLET LENGTH	EFFECTIVE LENGTH 80% CAP	INLET INTERCEPTION	BYPASS TO DOWNSTREAM INLET	STREET GRADE	STREET CROSS SLOPE	DEPTH AT CURB	SPREAD OF FLOW	
LINE 1																							
101	0.66	0.26	5	7.35	1.26						0.00	1.26	SUMP	2.08	A	6	4.8	13.44	0.00	SUMP	2.08	< 0.21	< 10.50
102	0.66	0.70	5	7.35	3.40	3701	1006				0.71	4.11	SUMP	2.08	A	6	4.8	13.44	0.00	SUMP	2.08	< 0.21	< 10.50
LINE 1000																							
1005	0.66	0.06	5	7.35	0.29						0.00	0.29	2.00	2.08	A	6	6	0.29	0.00	2.00	2.08	0.08	4.20
1006	0.66	0.22	5	7.35	1.07	1007					0.65	1.72	2.00	2.08	A	6	6	1.49	0.23	2.00	2.08	0.15	7.70
1007	0.66	0.25	5	7.35	1.21	1008	1009	1010			1.70	2.91	2.00	2.08	A	6	6	2.26	0.65	2.00	2.08	0.18	9.27
1008	0.66	0.15	5	7.35	0.73						0.00	0.73	1.20	2.08	A	6	6	0.71	0.02	1.20	2.08	0.12	6.24
1009	0.66	0.25	5	7.35	1.21						0.00	1.21	1.20	2.08	A	6	6	1.14	0.07	1.20	2.08	0.14	7.45
1010	0.66	0.95	5	7.35	4.61	1011					0.13	4.74	2.00	2.08	A	6	6	3.13	1.60	2.00	2.08	0.22	11.03
1011	0.66	0.20	5	7.35	0.97	1012					0.53	1.50	1.35	2.08	A	6	6	1.37	0.13	1.35	2.08	0.15	7.85
1012	0.66	0.55	5	7.35	2.67	1013	1501	1502			0.31	2.98	1.35	2.08	A	6	6	2.45	0.53	1.35	2.08	0.20	10.02
1013	0.66	0.30	5	7.35	1.46						0.00	1.46	1.20	2.08	A	6	6	1.35	0.11	1.20	2.08	0.15	7.94
1014	0.66	0.20	5	7.35	0.97						0.00	0.97	1.20	2.08	A	6	6	0.93	0.04	1.20	2.08	0.13	6.89
LINE 1300																							
1301	0.66	0.30	5	7.35	1.46						0.00	1.46	2.00	2.08	A	6	6	1.29	0.16	2.00	2.08	0.14	7.26
LINE 1500																							
1501	0.66	0.35	5	7.35	1.70						0.00	1.70	1.20	2.08	A	6	6	1.55	0.15	1.20	2.08	0.16	8.39
1502	0.66	0.20	5	7.35	0.97	1503					0.05	1.02	1.20	2.08	A	6	6	0.97	0.05	1.20	2.08	0.14	7.00
1503	0.66	0.20	5	7.35	0.97	1504					0.03	1.00	1.20	2.08	A	6	6	0.96	0.05	1.20	2.08	0.13	6.97
1504	0.66	0.10	5	7.35	0.49	1505					0.37	0.86	1.20	2.08	A	6	6	0.83	0.03	1.20	2.08	0.13	6.61
LINE 1600																							
1601	0.66	0.28	5	7.35	1.36						0.00	1.36	1.20	2.08	A	6	6	1.27	0.09	1.20	2.08	0.15	7.75
LINE 2200																							
2201	0.51	0.30	5	7.35	1.12	2202					0.06	1.18	2.34	2.08	A	6	6	1.06	0.12	2.34	2.08	0.13	6.58
2202	0.51	0.20	5	7.35	0.75	2203					0.11	0.86	2.34	2.08	A	6	6	0.80	0.06	2.34	2.08	0.11	5.88
2203	0.51	0.15	5	7.35	0.56	2204					0.47	1.03	2.96	2.08	A	6	6	0.92	0.11	2.96	2.08	0.11	6.02
2204	0.51	0.55	5	7.35	2.06	2205					0.09	2.15	2.96	2.08	A	6	6	1.68	0.47	2.96	2.08	0.15	7.77
2205	0.51	0.25	5	7.35	0.94	2206					0.01	0.95	2.96	2.08	A	6	6	0.86	0.09	2.96	2.08	0.11	5.85
2206	0.51	0.10	5	7.35	0.37	2207					0.07	0.44	2.00	2.08	A	6	6	0.43	0.01	2.00	2.08	0.09	4.82
2207	0.51	0.25	5	7.35	0.94	2208					0.03	0.96	2.00	2.08	A	6	6	0.90	0.07	2.00	2.08	0.12	6.29
2208	0.51	0.15	5	7.35	0.56	2209					0.07	0.64	2.00	2.08	A	6	6	0.61	0.03	2.00	2.08	0.10	5.46
2209	0.51	0.25	5	7.35	0.94	2210					0.06	1.00	2.00	2.08	A	6	6	0.93	0.07	2.00	2.08	0.12	6.38
2210	0.51	0.25	5	7.35	0.94					0.00	0.94	2.00	2.08	A	6	6	0.87	0.06	2.00	2.08	0.12	6.23	
2211	0.51	0.20	5	7.35	0.75					0.00	0.75	2.00	2.08	A	6	6	0.71	0.04	2.00	2.08	0.11	5.77	
LINE 2400																							
2401	0.51	1.05	1.05	7.35	3.94	2211					0.04	3.97	2.96	2.08	A	6	6	2.52	1.45	2.96	2.08	0.19	9.66
LINE 2900																							
2901	0.51	0.30	5	7.35	1.12	3001	3601				0.07	1.19	SUMP	2.08	A	6	4.8	16.80	0.00	SUMP			

MISSOURI GEOGRAPHIC REFERENCE SYSTEM

BENCHMARK:

BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND
ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE
TRANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

**MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN**

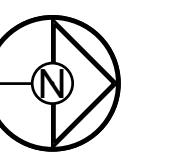
**SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI**

DRAWN BY:		REVISION DATE	DESCRIPTION
NCA		1 01/21/2022	City Comments dated 12/19/2021
		2 04/20/2022	City Comments dated 02/14/2022
CHECKED BY:		3 05/17/2022	City Comments Dated 5/11/2022
JLL		4 10/27/2023	Revised Details to current 2023 Details
DATE PREPARED:		5	
11/05/2021		6	
		7	
PROJ. NUMBER:		8	
21-130		9	

STORM LAYOUT SHEET

SHEET

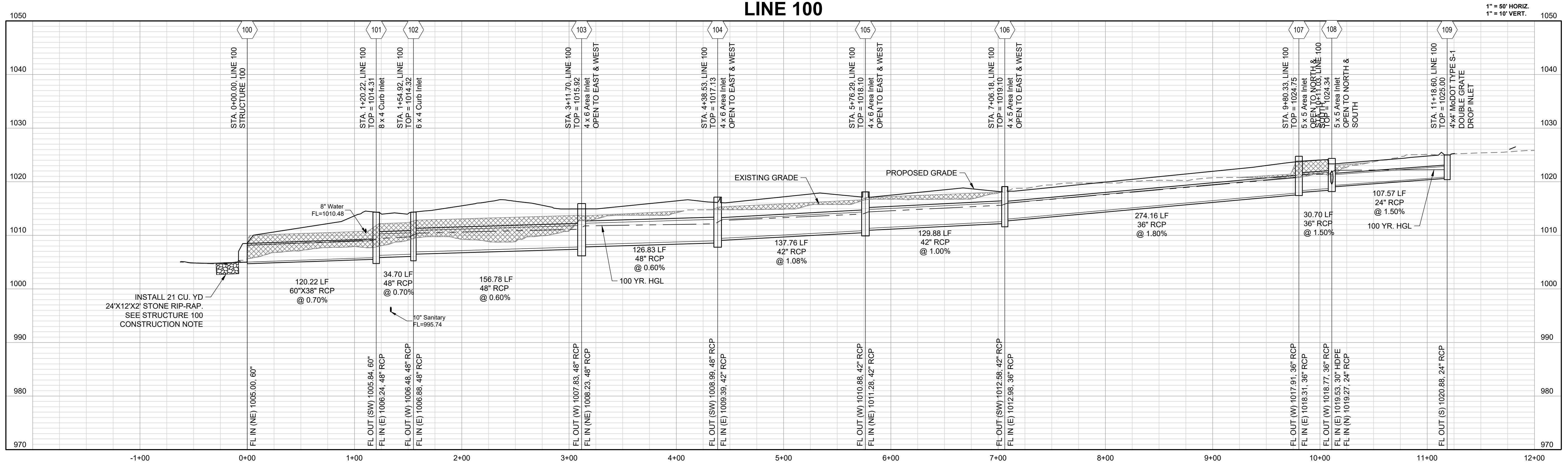
29



SCALE: 1" = 100'

29

Storm Sewer Construction Notes											
Structure	Notes										
100	STA 0+00.00, LINE 100 INSTALL 60"X30" ELLIPTICAL FLARED END SECTION W/ TOEWALL, STONE RIP-RAP PER CALCULATIONS AND DETAIL ON SHEETS 29 & 30. PLACE FILTER FABRIC PRIOR TO INSTALLATION OF RIP-RAP. N 992171.1666 E 2833163.6507										
101	STA 1+20.22, LINE 100 INSTALL 8 X 8 CURB INLET N 992217.7689 E 2833274.4662										
102	STA 1+54.92, LINE 100 INSTALL 6 X 4 CURB INLET N 992226.6808 E 2833308.0048										
103	STA 3+11.70, LINE 100 INSTALL 8 X 8 CURB INLET OPEN TO EAST & WEST N 992259.7048 E 2833461.2715										
104	STA 4+38.53, LINE 100 INSTALL 4 X 6 AREA INLET OPEN TO EAST & WEST N 992321.4650 E 2833572.0437										
105	STA 5+76.29, LINE 100 INSTALL 4 X 6 AREA INLET OPEN TO EAST & WEST N 992350.5970 E 2833706.6929										
106	STA 7+06.18, LINE 100 INSTALL 4 X 6 AREA INLET OPEN TO EAST & WEST N 992402.4544 E 2833825.7762										
107	STA 9+80.33, LINE 100 INSTALL 5 X 5 AREA INLET OPEN TO NORTH & SOUTH N 992447.2522 E 2834096.2481										
108	STA 10+11.03, LINE 100 INSTALL 5 X 5 AREA INLET OPEN TO NORTH & SOUTH N 992452.9450 E 2834126.4126										
1006	STA 6+96.91, LINE 1000 INSTALL 6 X 7 CURB INLET N 992451.5445 E 2833265.3333										
1007	STA 6+96.40, LINE 1000 INSTALL 6 X 4 CURB INLET N 992444.9605 E 2833301.2276										
1008	STA 8+99.76, LINE 1000 INSTALL 6 X 4 CURB INLET N 992638.0120 E 2833365.1496										
1009	STA 9+45.13, LINE 1000 INSTALL 6 X 4 CURB INLET N 992660.4783 E 2833404.5928										
1010	STA 10+21.84, LINE 1000 INSTALL 6 X 4 CURB INLET N 992693.4028 E 2833416.4136										
1011	STA 11+41.59, LINE 1000 INSTALL 6 X 4 CURB INLET N 992843.8261 E 2833439.2551										
1012	STA 12+35.81, LINE 1000 INSTALL 6 X 4 CURB INLET N 992954.9660 E 2833510.7144										
1301	STA 0+35.00, LINE 1300 INSTALL 6 X 4 CURB INLET N 992743.0150 E 2833365.7574										
1501	STA 0+34.99, LINE 1500 INSTALL 6 X 4 CURB INLET N 992987.9421 E 2833522.4132										
1502	STA 0+76.62, LINE 1500 INSTALL 6 X 4 CURB INLET N 993025.6174 E 2833504.7109										
1503	STA 1+99.99, LINE 1500 INSTALL 6 X 4 CURB INLET N 993141.6955 E 2833546.5060										
1504	STA 3+10.05, LINE 1500 INSTALL 6 X 4 CURB INLET N 993247.3035 E 2833577.4814										
1505	STA 3+57.59, LINE 1500 INSTALL 6 X 4 CURB INLET N 993278.3247 E 2833613.5110										
1601	STA 0+35.00, LINE 1600 INSTALL 6 X 4 CURB INLET N 993037.4744 E 2833471.7805										
1801	STA 0+89.25, LINE 1800 INSTALL 6 X 5 CURB INLET N 992455.7295 E 2833389.8227										
1802	STA 1+46.77, LINE 1800 INSTALL 6 X 5 AREA INLET OPEN TO WEST N 992510.6717 E 2833406.8565										
1804	STA 4+32.41, LINE 1800 INSTALL 7 X 4 AREA INLET OPEN TO EAST & WEST N 992512.4022 E 2833689.7112										
2200	STA 0+00.00, LINE 2000 INSTALL 36" HDPE FLARED END SECTION W/ TOEWALL, RIP-RAP PER CALCULATIONS ON THIS SHEET, PLACE FILTER FABRIC PRIOR TO INSTALLATION OF RIP-RAP. N 991327.3945 E 2833439.4592										
2201	STA 0+57.66, LINE 2200 INSTALL 6 X 4 CURB INLET N 991269.7620 E 2832762.6651										
2202	STA 3+20.33, LINE 2200 INSTALL 6 X 4 CURB INLET N 991263.4178 E 2832700.2555										
2203	STA 4+79.63, LINE 2200 INSTALL 6 X 4 CURB INLET N 991320.4319 E 2832849.0093										
2204	STA 5+69.63, LINE 2200 INSTALL 6 X 4 CURB INLET N 991372.9359 E 2832922.1001										
2205	STA 6+78.63, LINE 2200 INSTALL 6 X 4 CURB INLET N 991437.0192 E 2833010.2723										
2206	STA 8+84.80, LINE 2200 INSTALL 6 X 4 CURB INLET N 991558.2303 E 2833177.0469										
2207	STA 9+96.91, LINE 2200 INSTALL 6 X 4 CURB INLET N 991614.2629 E 2833274.1572										
2208	STA 12+25.74, LINE 2200 INSTALL 6 X 4 CURB INLET N 991704.0584 E 2833484.6295										
2209	STA 13+34.81, LINE 2200 INSTALL 6 X 4 CURB INLET N 991746.8584 E 2833584.9487										
2210	STA 15+91.33, LINE 2200 INSTALL 6 X 4 CURB INLET N 991948.5318 E 2833821.6124										
2211	STA 16+34.93, LINE 2200 INSTALL 6 X 4 CURB INLET N 992038.8385 E 2833427.4053										
2212	STA 16+34.93, LINE 2200 INSTALL 6 X 4 CURB INLET N 992038.8385 E 2833427.4053										
2213	STA 16+34.93, LINE 2200 INSTALL 6 X 4 CURB INLET N 992038.8385 E 2833427.4053										
2214	STA 16+34.93, LINE 2200 INSTALL 6 X 4 CURB INLET N 992038.8385 E 2833427.4053										
2215	STA 16+34.93, LINE 2200 INSTALL 6 X 4 CURB INLET N 992038.8385 E 2833427.4053										
2216	STA 16+34.93, LINE 2200 INSTALL 6 X 4 CURB INLET N 9920										



10-YEAR HGL
— — — —
100-YEAR HGL - - - -

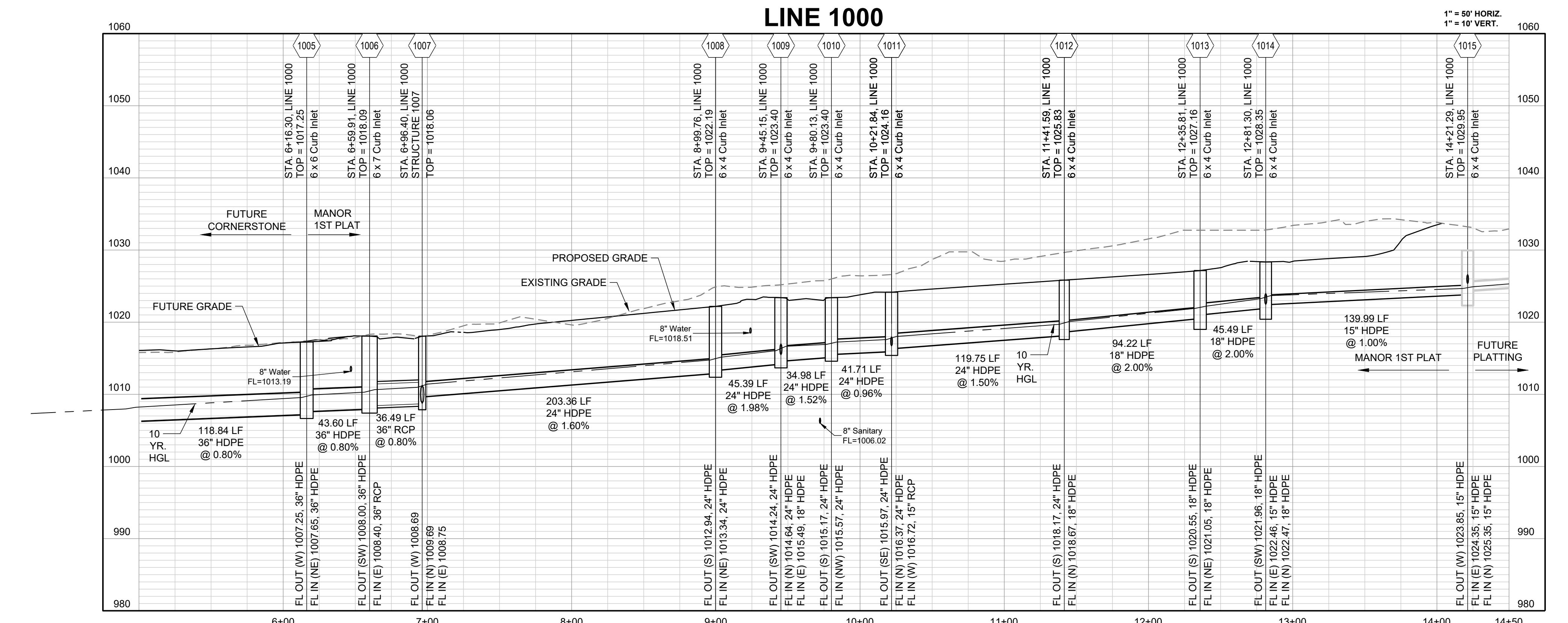


SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street Lenexa Kansas 66215
(913) 492-5158 • Fax: (913) 492-3400
WWW.SCHLAGEL.COM
MAILING ADDRESS: PO BOX 201004 • LENEXA KS 66215-0004
#E2020038005 F BLAC20201000237 44 S2020038859-F

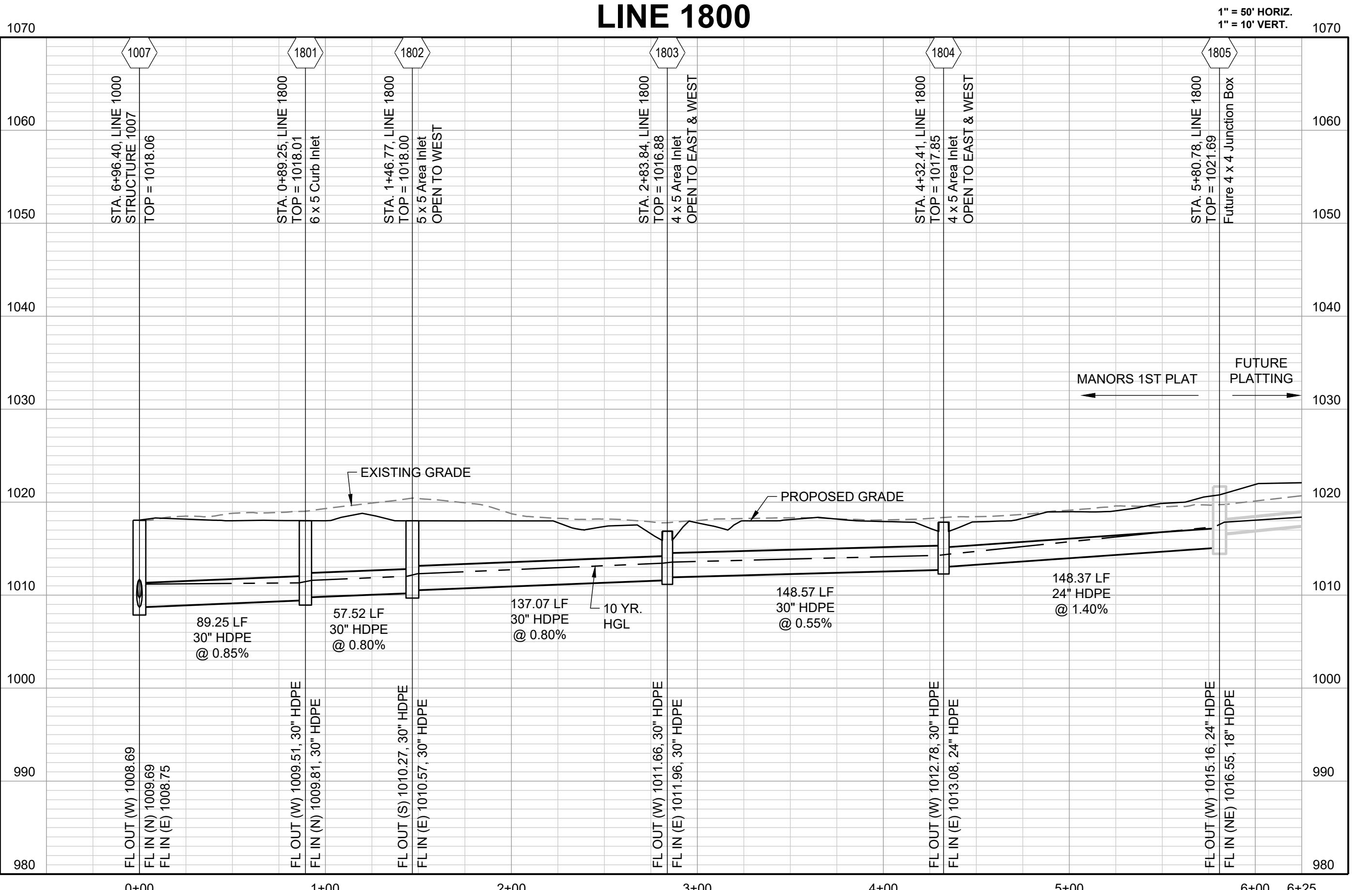
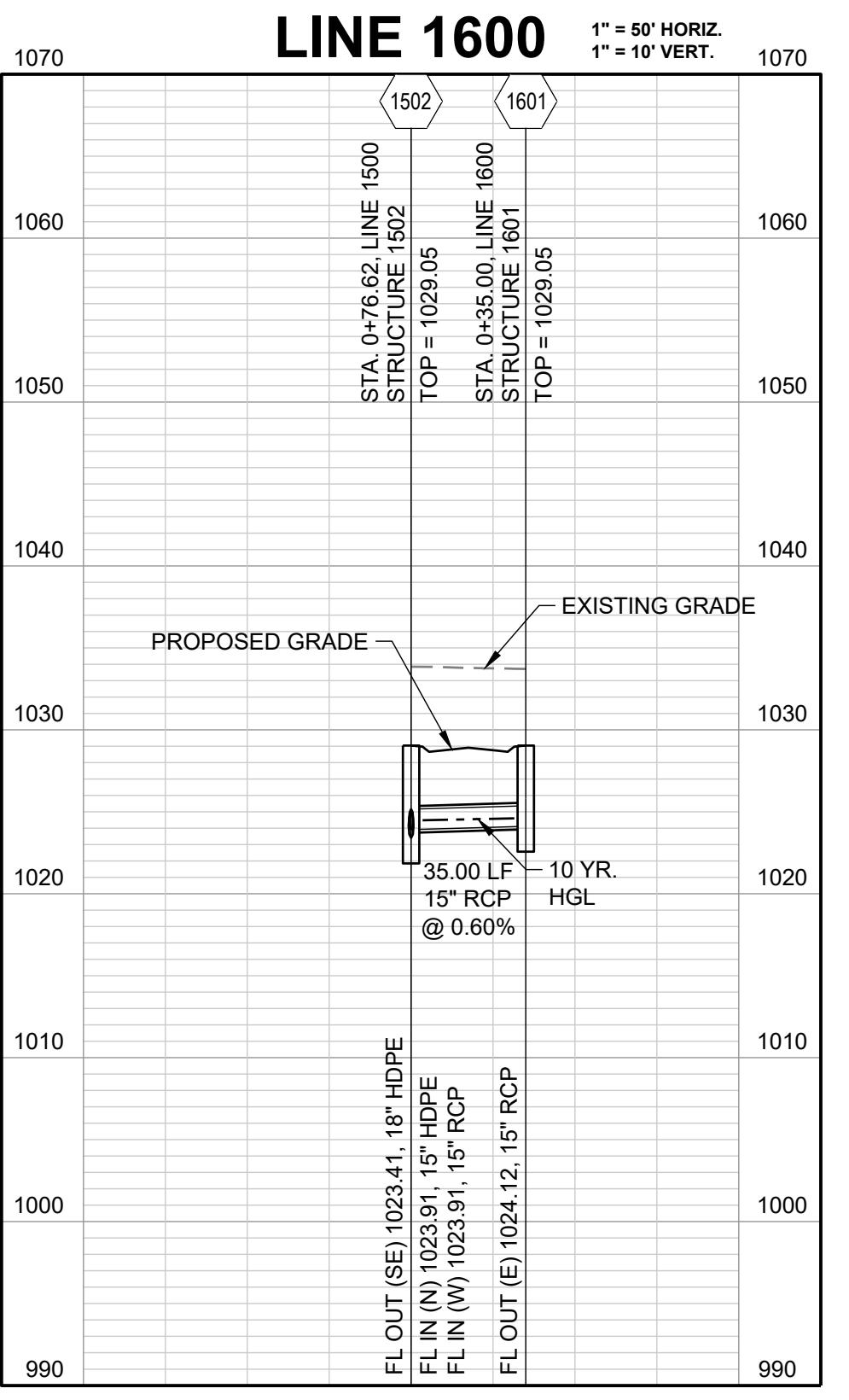
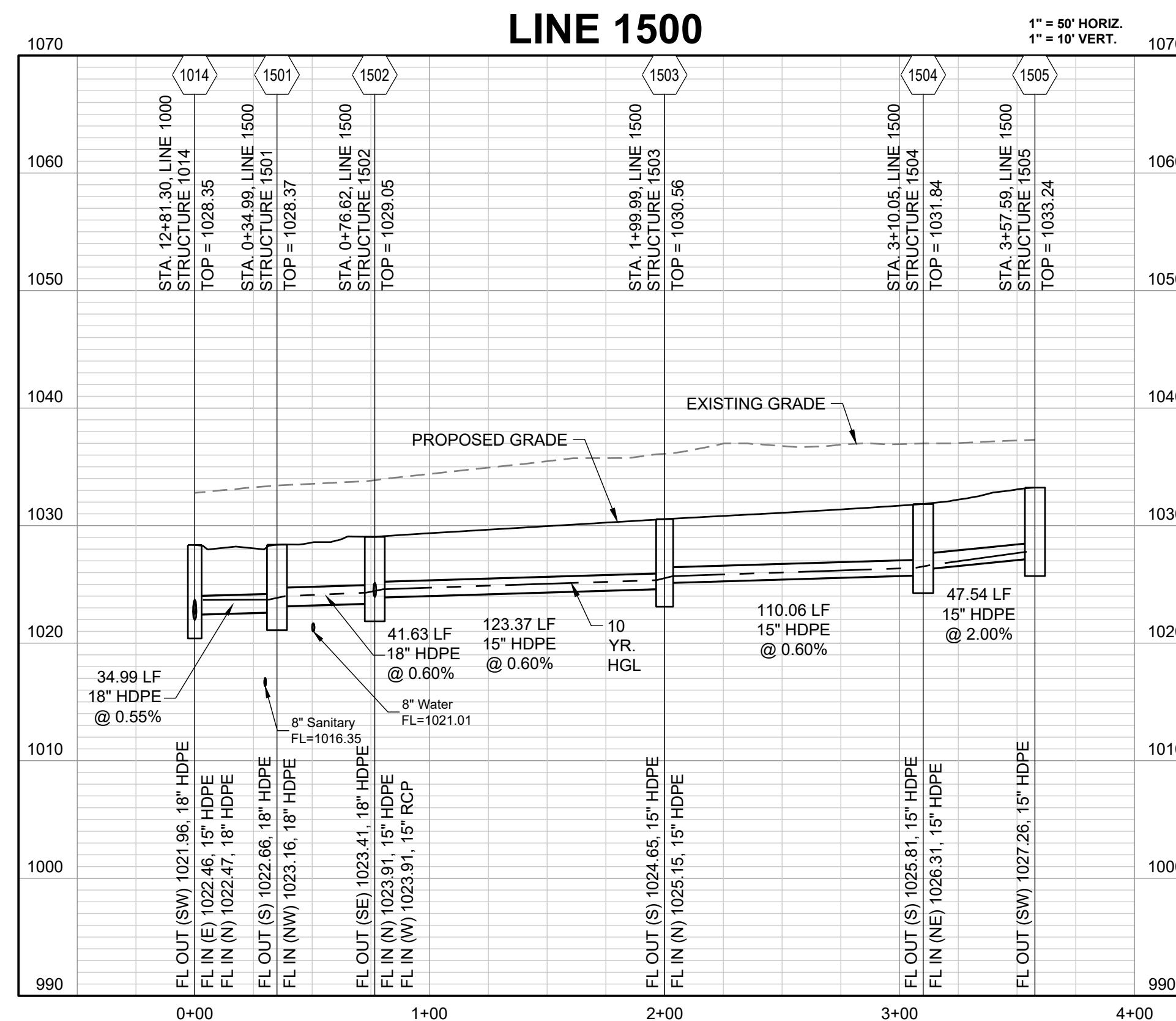
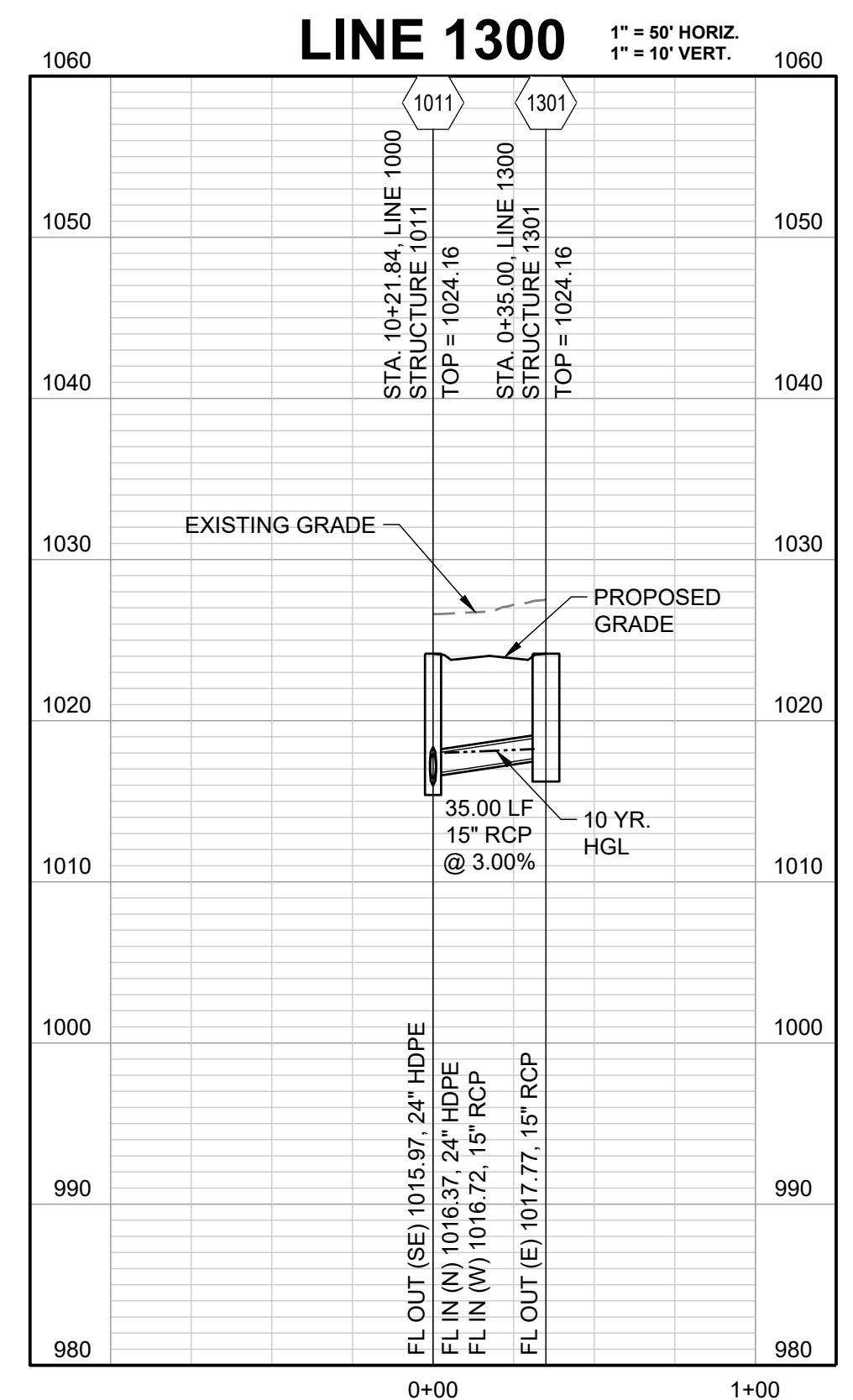
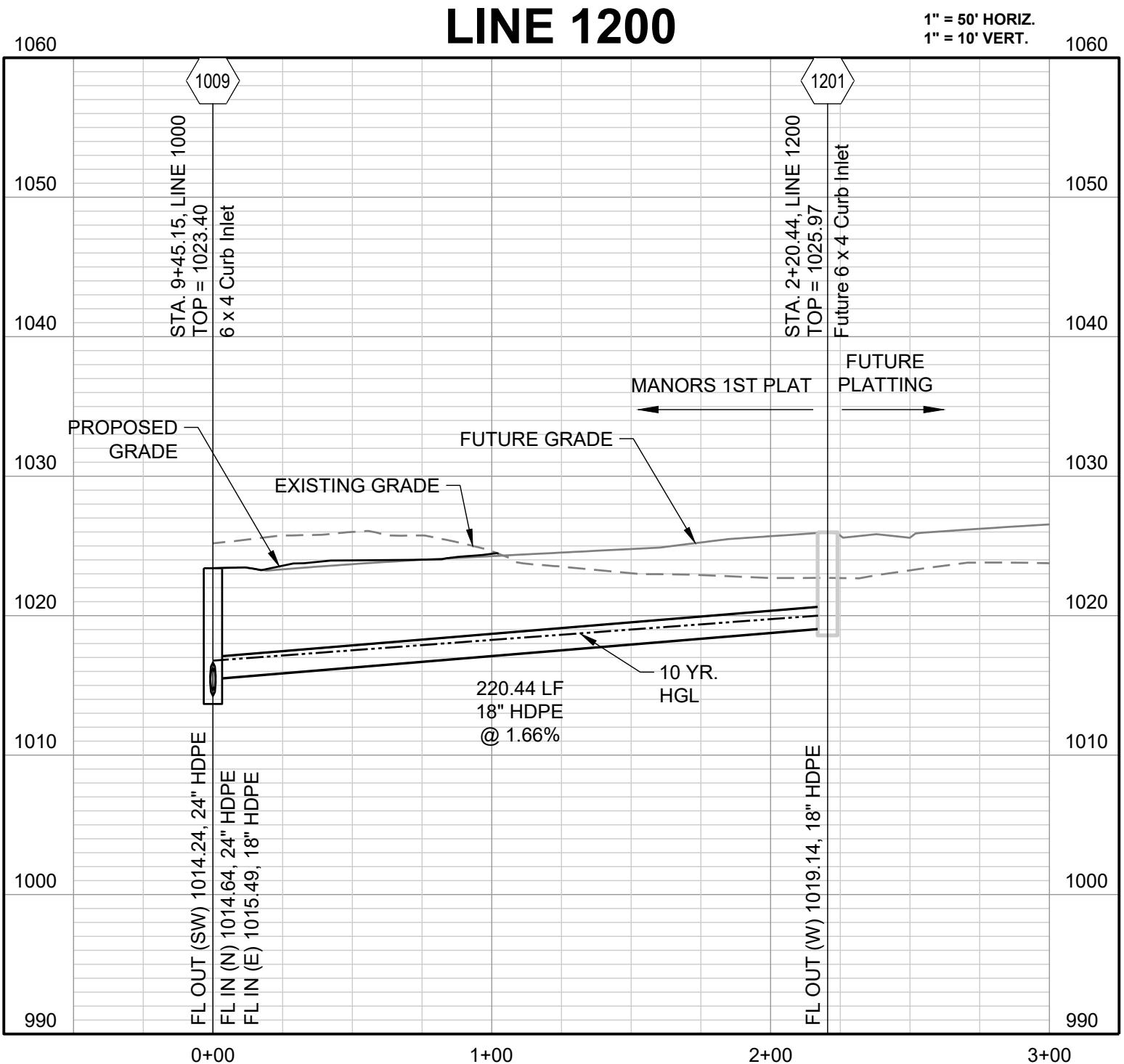
PREPARED BY:

JAMES L. LONG
NUMBER 1027/2023
PE-20104495
PROFESSIONAL ENGINEER

MANOR AT BAILEY FARMS, FIRST PLAT STREET, STORMWATER AND MASTER DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD LEE'S SUMMIT, MISSOURI



SHEET	DRAWN BY:	REVISION DATE	DESCRIPTION	STORM PROFILES 1	
				CHECKED BY:	APPROVED BY:
	NCA	01/21/2022	City Comments dated 1/21/2022	JLL	01/20/2022
		04/20/2022	City Comments dated 04/20/2022		05/17/2022
			Revised Details to current 2023 Details		
	DATE PREPARED	1/27/2023			
	PROJ. NUMBER	110562021			
	PROJ. NUMBER	21-130			



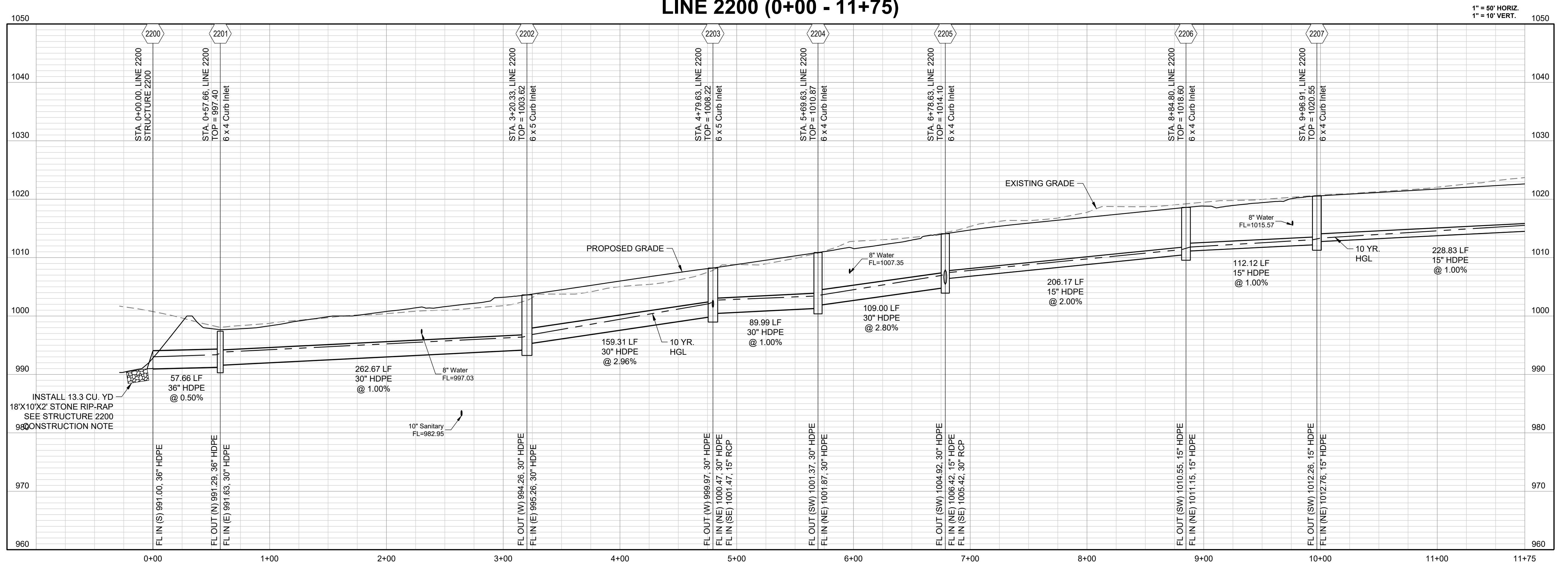
10-YEAR HGL

MANOR AT BAILEY FARMS, FIRST PLAT STREET, STORMWATER AND MASTER DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD LEE'S SUMMIT, MISSOURI

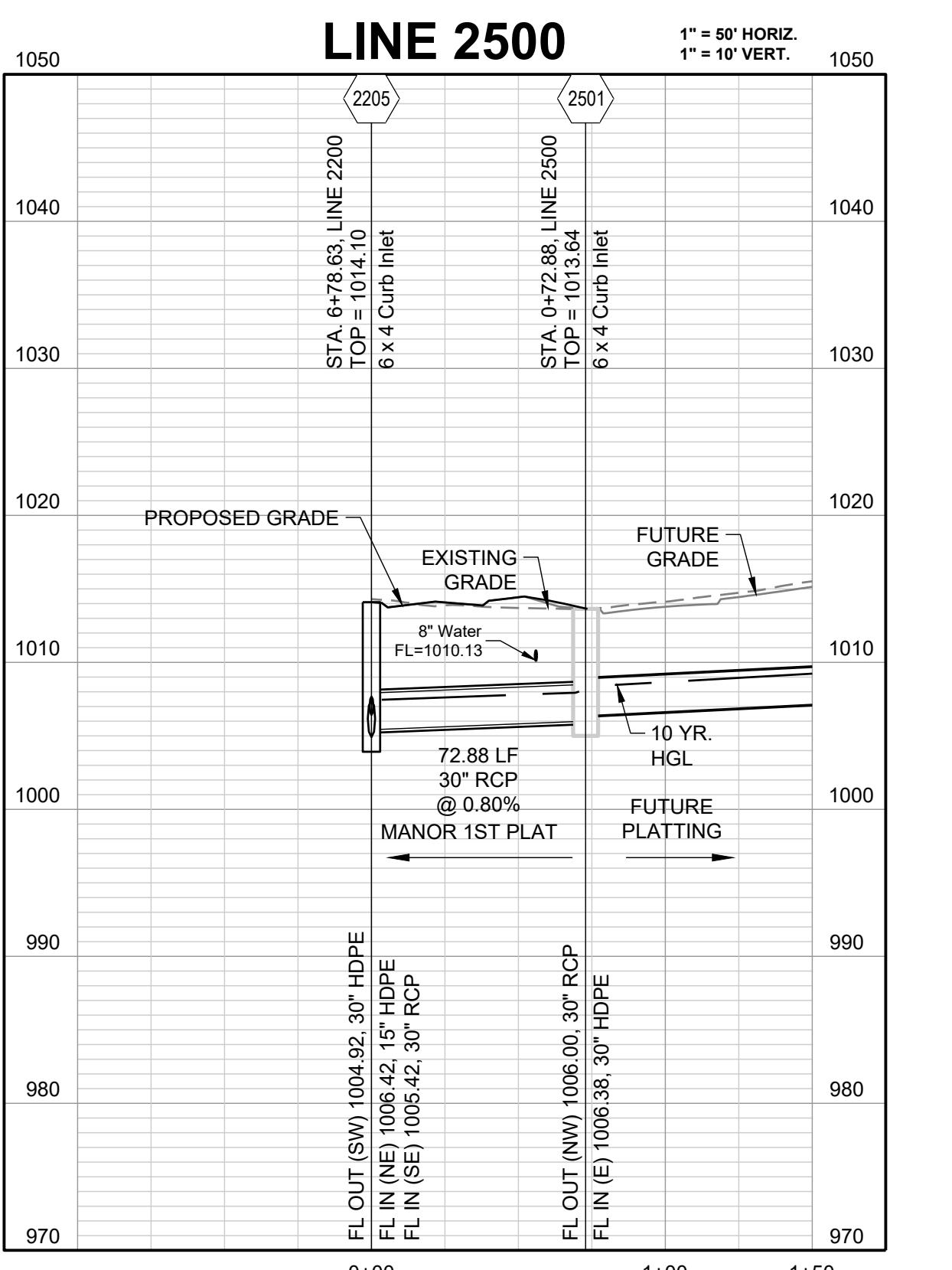
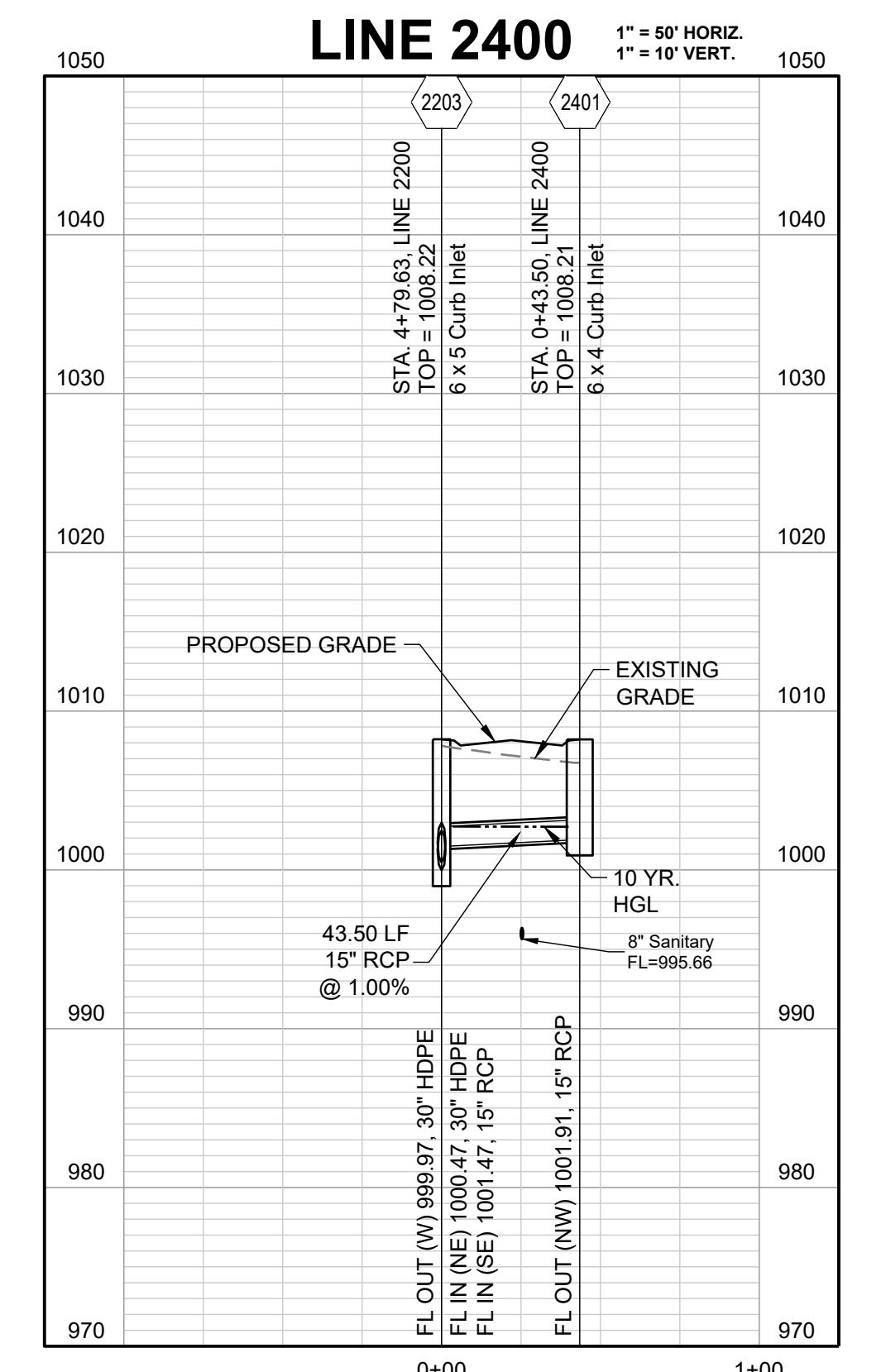
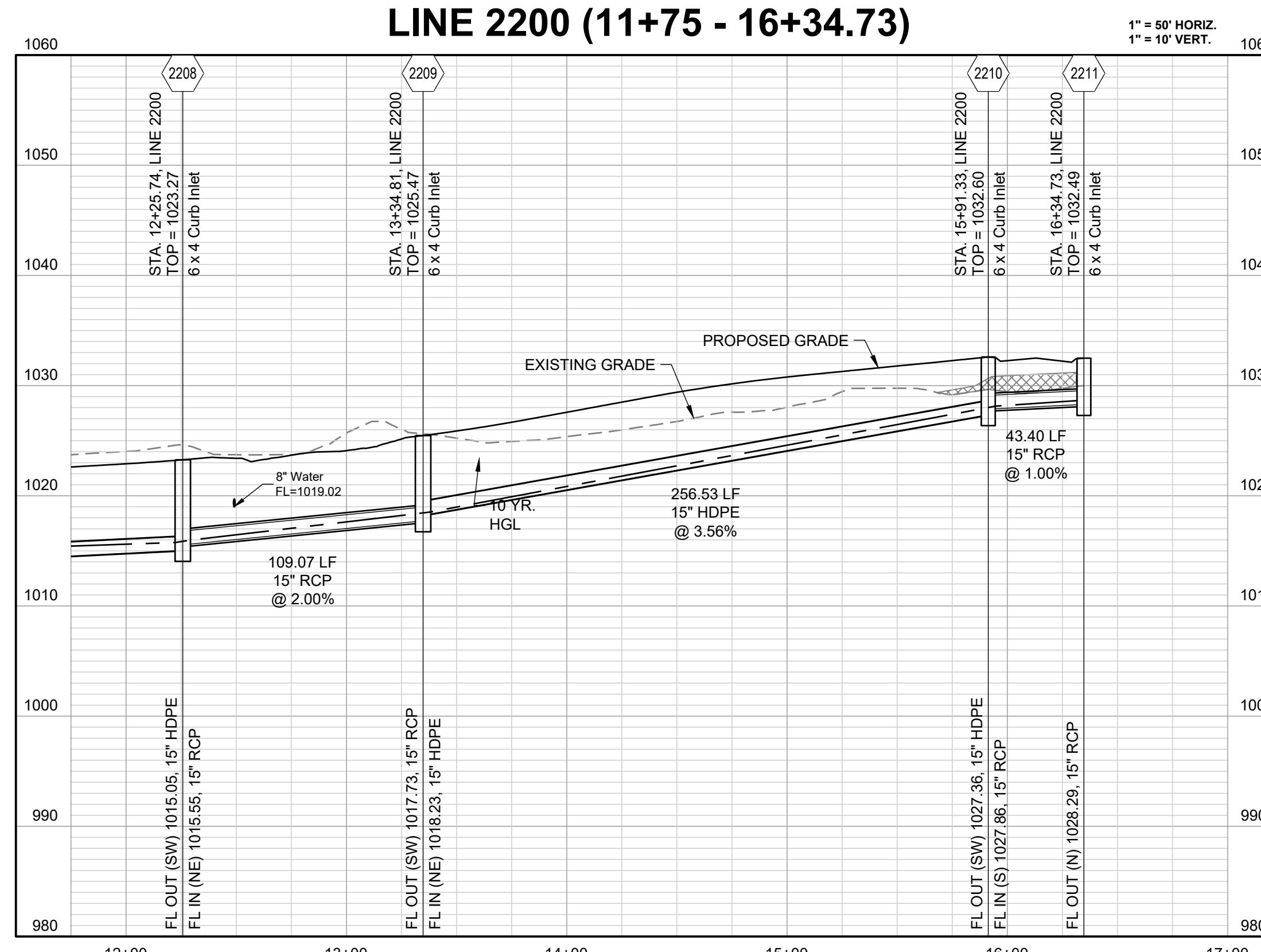
SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street Lenexa Kansas 66215
(913) 492-5158 • Fax: (913) 492-3400
www.schlagelassociates.com
#E202003800 F BLA202003800 F BLA202003800 F

PREPARED BY:
JAMES L. LONG
NUMBER: 10201004495
PE-201004495
10/27/2023
PROFESSIONAL ENGINEER
STATE OF MISSOURI
SCHLAGEL & ASSOCIATES, P.A.

SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street Lenexa Kansas 66215
(913) 492-5158 • Fax: (913) 492-3400
www.schlagelassociates.com
#E202003800 F BLA202003800 F BLA202003800 F



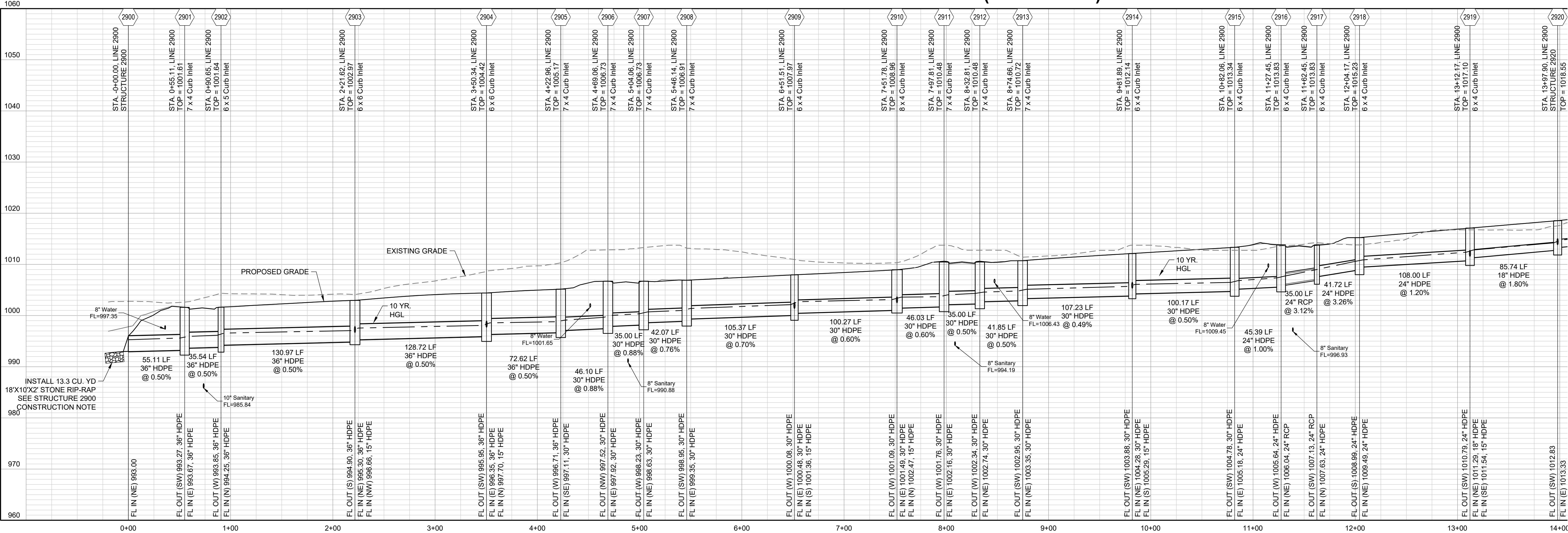
COMPACTED FILL TO BE PLACED A MINIMUM OF
18" ABOVE TOP OF PIPE PRIOR TO PIPE EXCAVATION



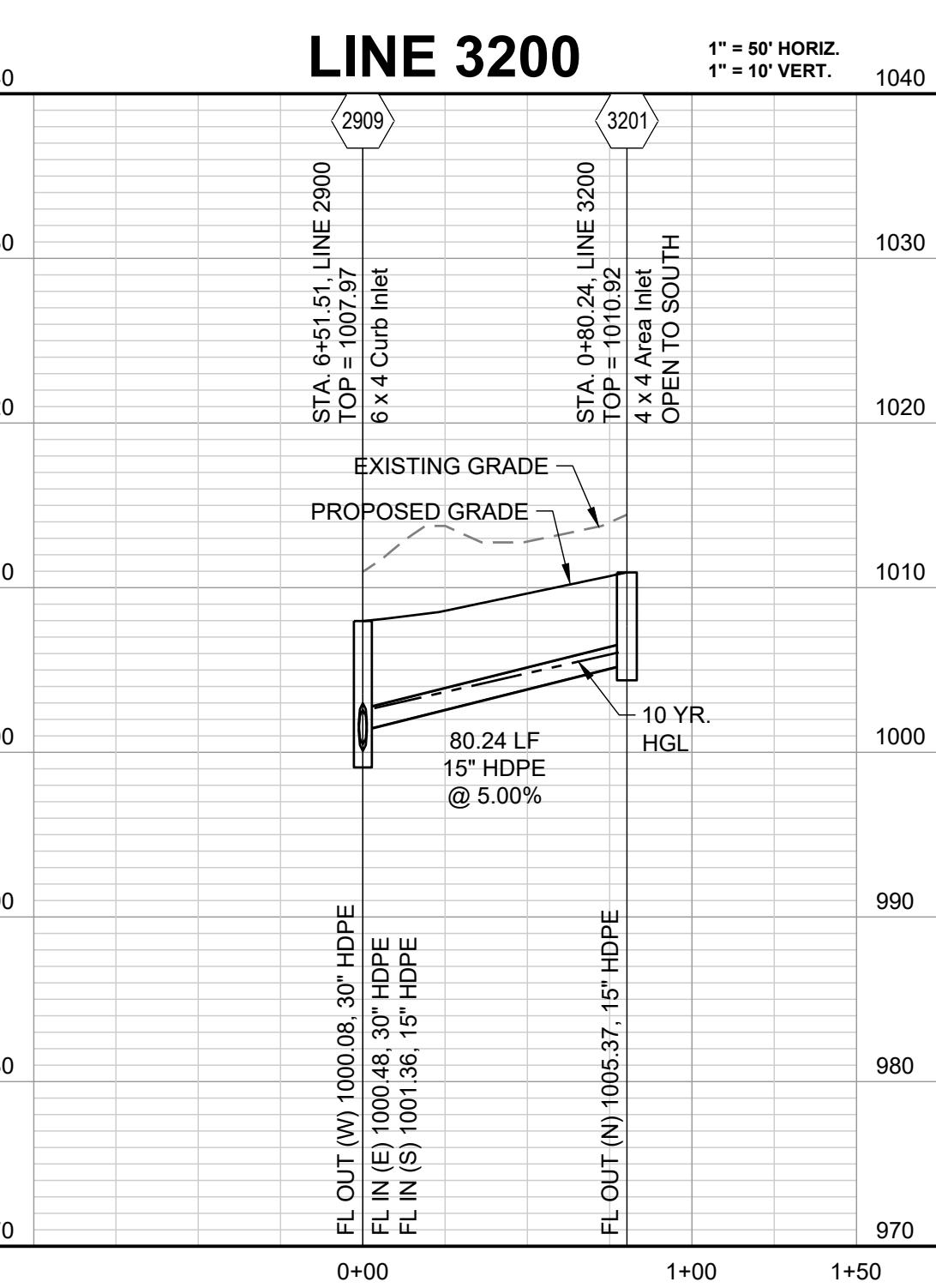
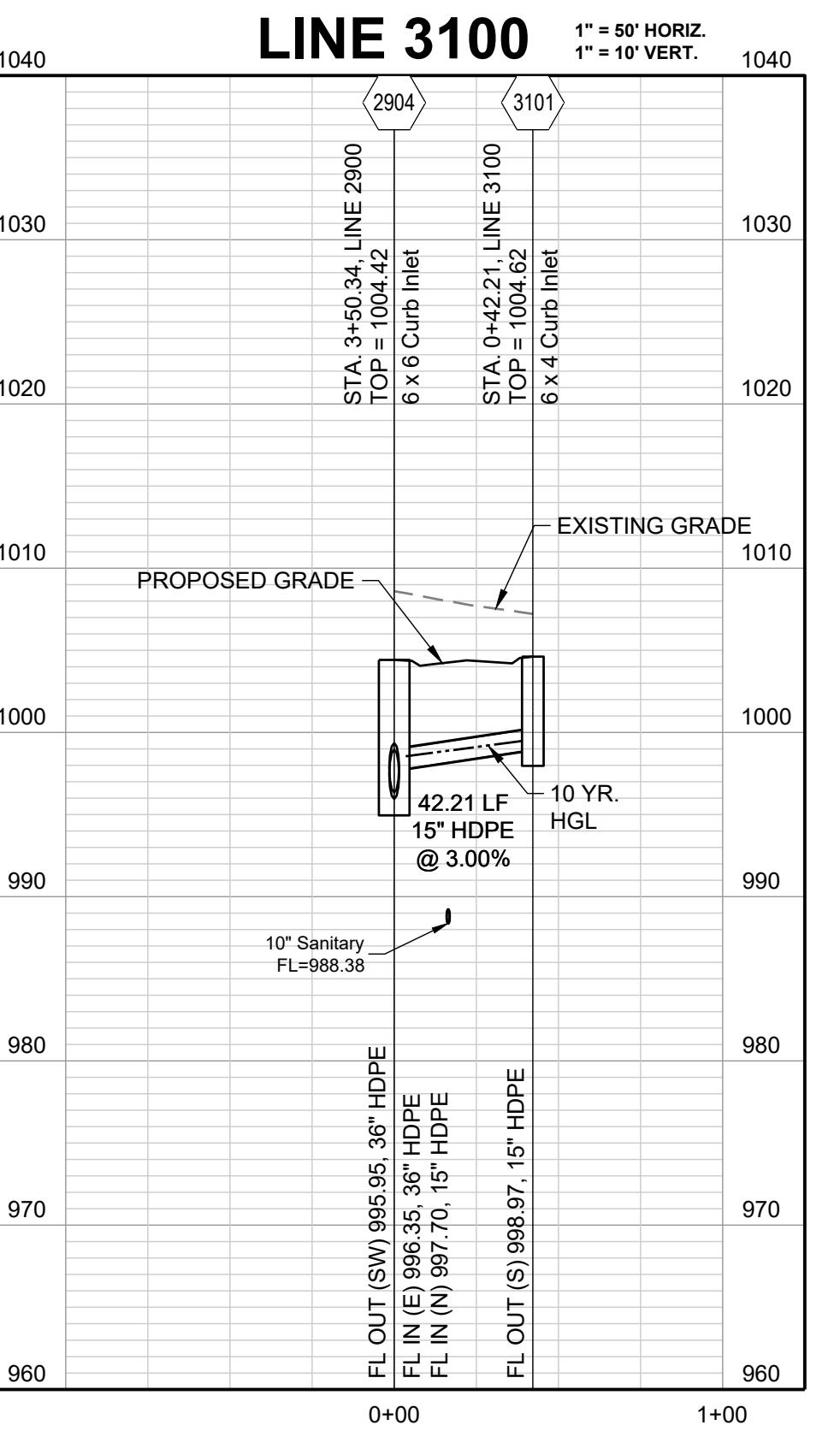
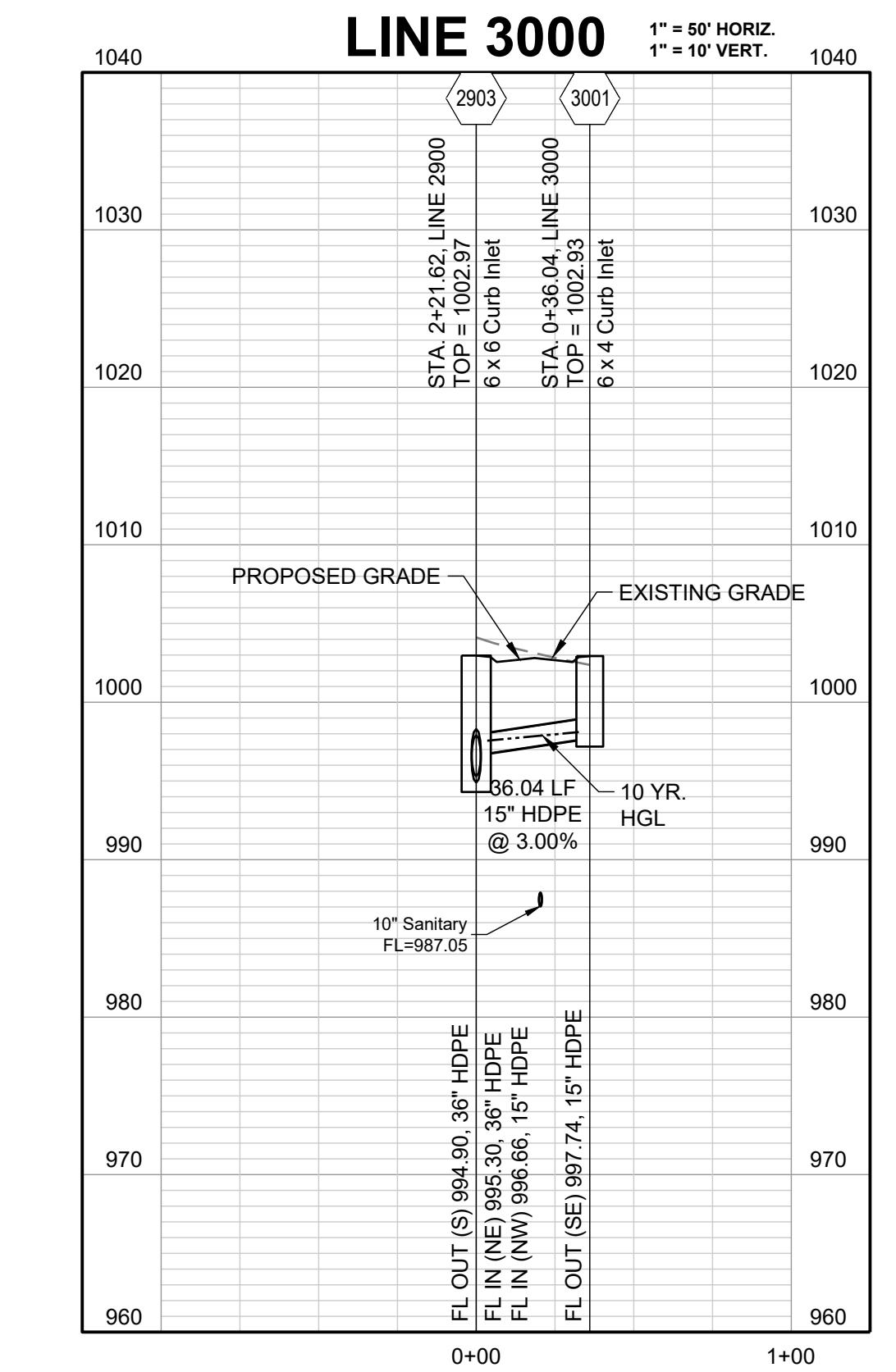
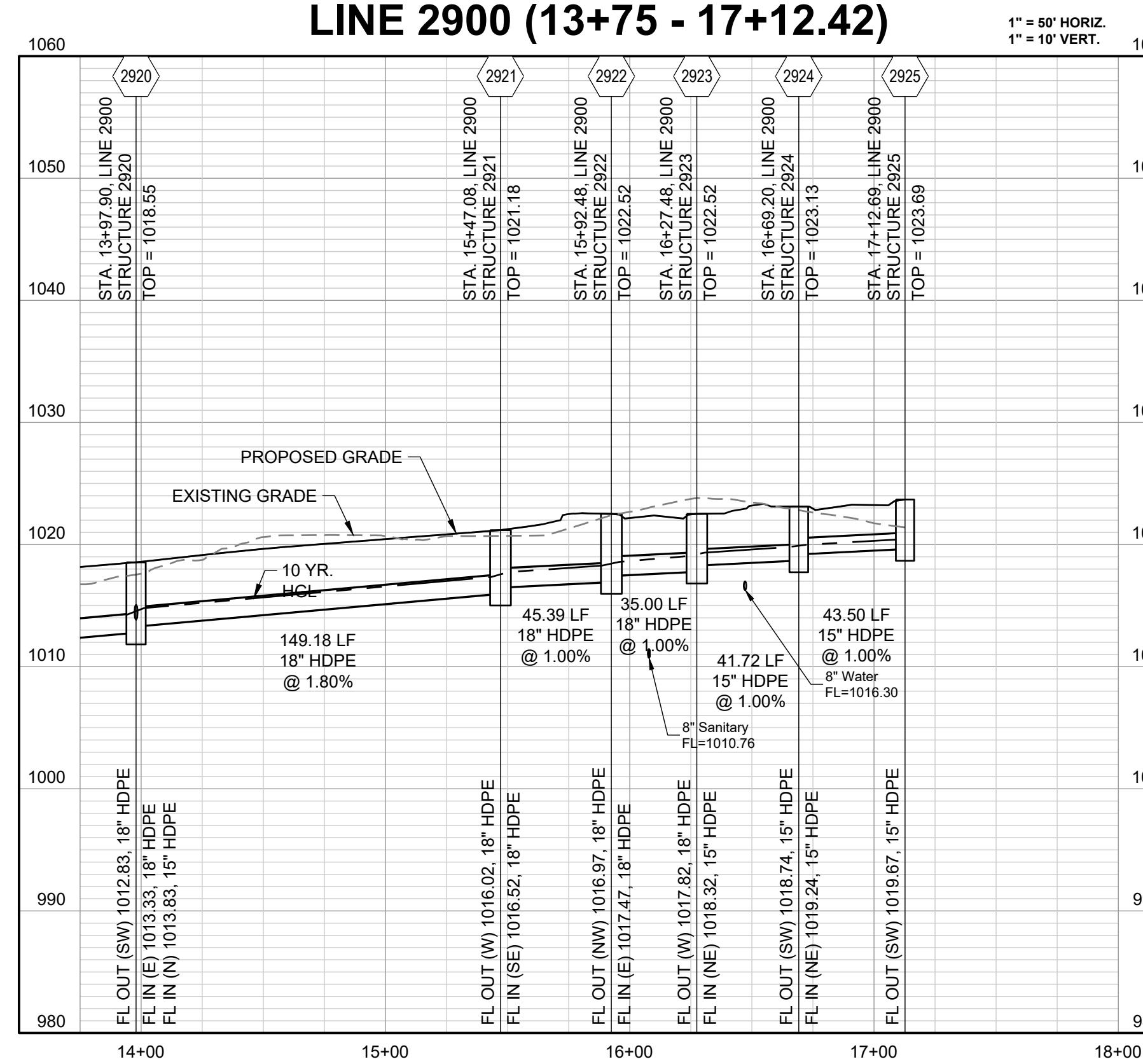
SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street Lenexa Kansas 66215
(913) 492-5158 • Fax: (913) 492-3400
WWW.SCHLAGELASSOCIATES.COM
MAILING ADDRESS: C/O SCHLAGEL & ASSOCIATES, P.A.
#2020038005 F BL-C2020100237 #S2020038059-F

PREPARED BY:
JAMES L. LONG
NUMBER PE-201404495
10/27/2023
PROFESSIONAL ENGINEER
SCHLAGEL & ASSOCIATES, P.A.

MANOR AT BAILEY FARMS, FIRST PLAT STREET, STORMWATER AND MASTER DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD LEE'S SUMMIT, MISSOURI



YEAR HGL — — — — — — —



LINE 2900 (13+75 - 17+12.42)

LINE 3000

LINE 3100

LINE 3200

**MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN**

SE BAILEY ROAD AND SE RANSON ROAD

EE'S SUMMIT MISSOURI

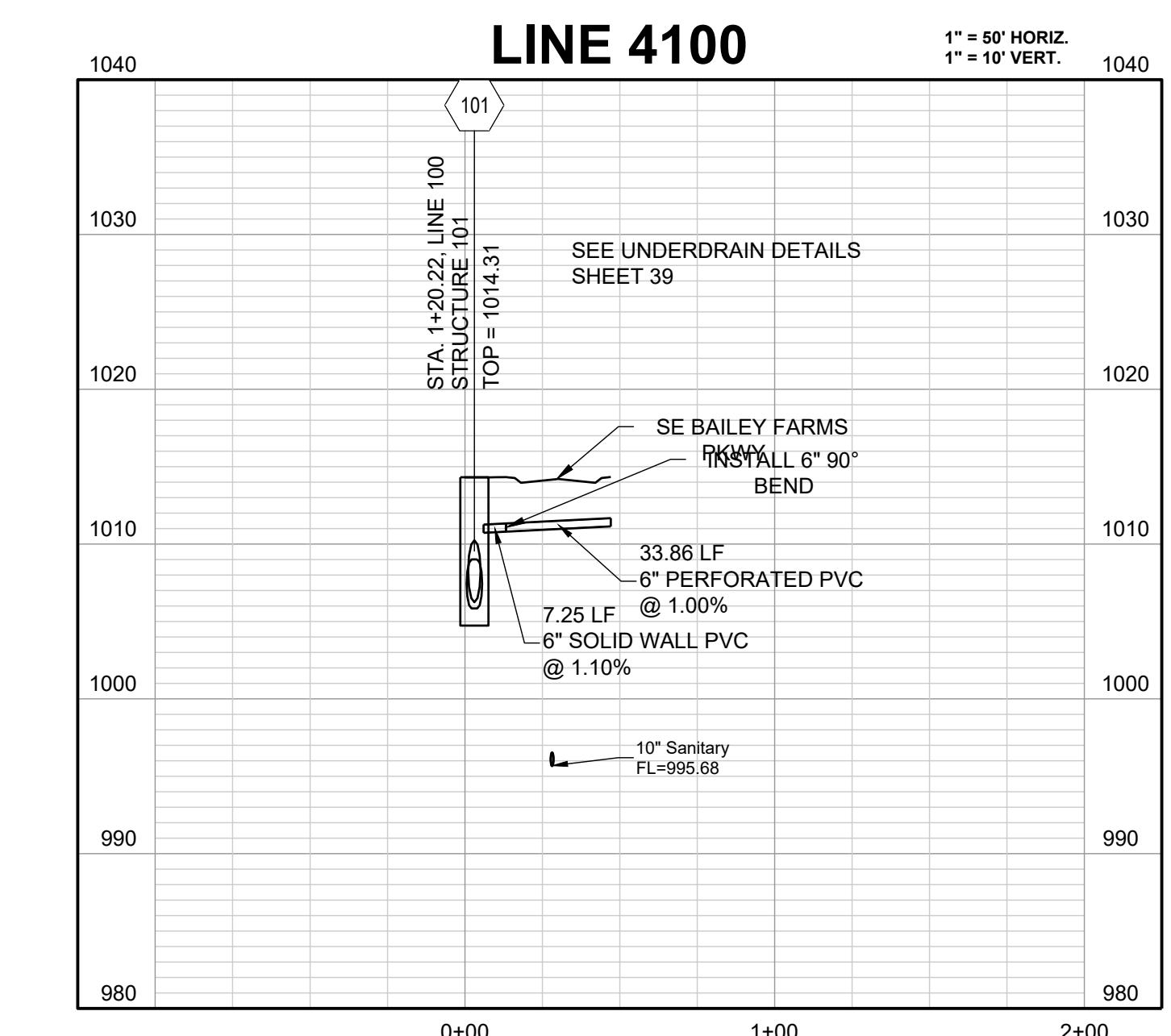
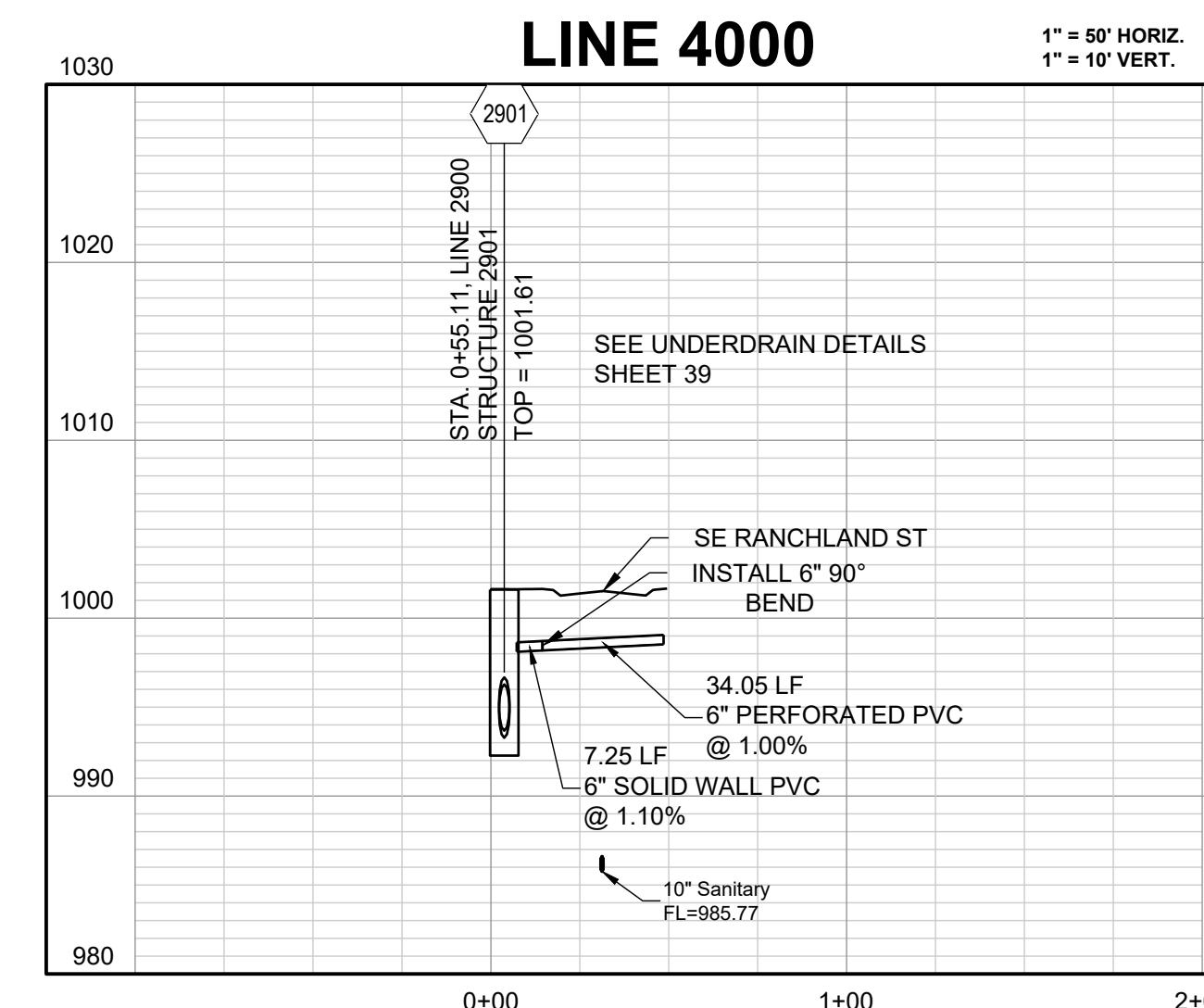
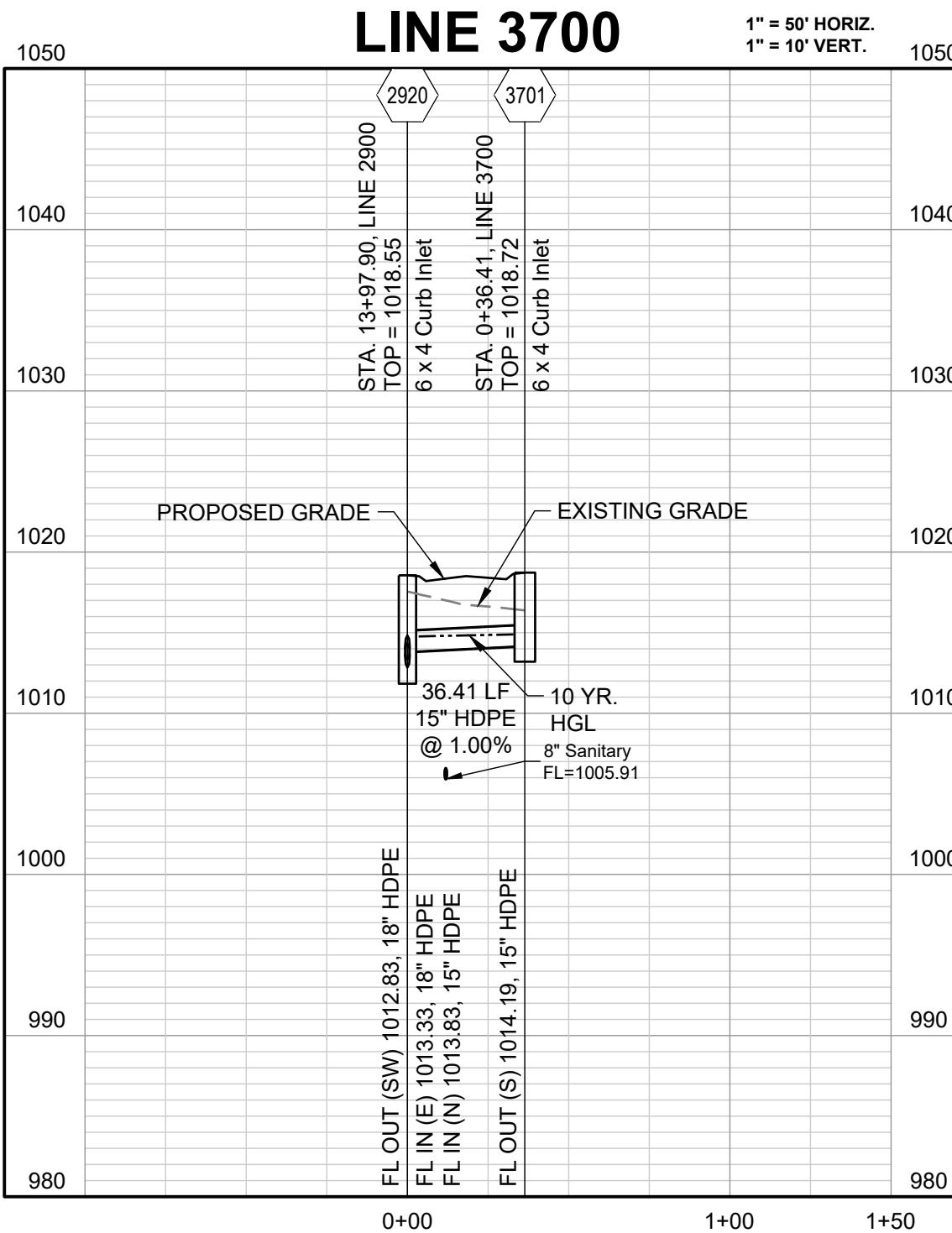
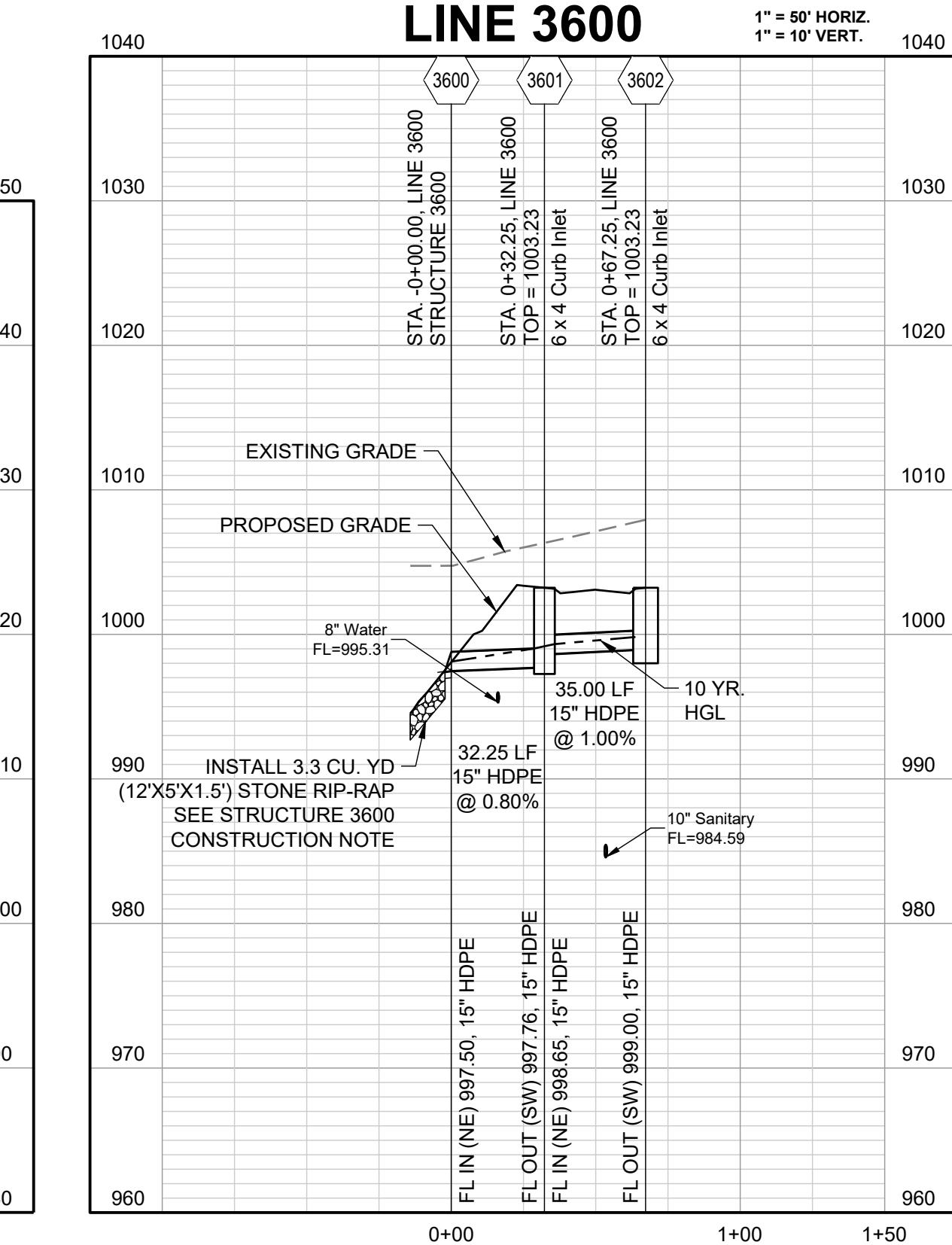
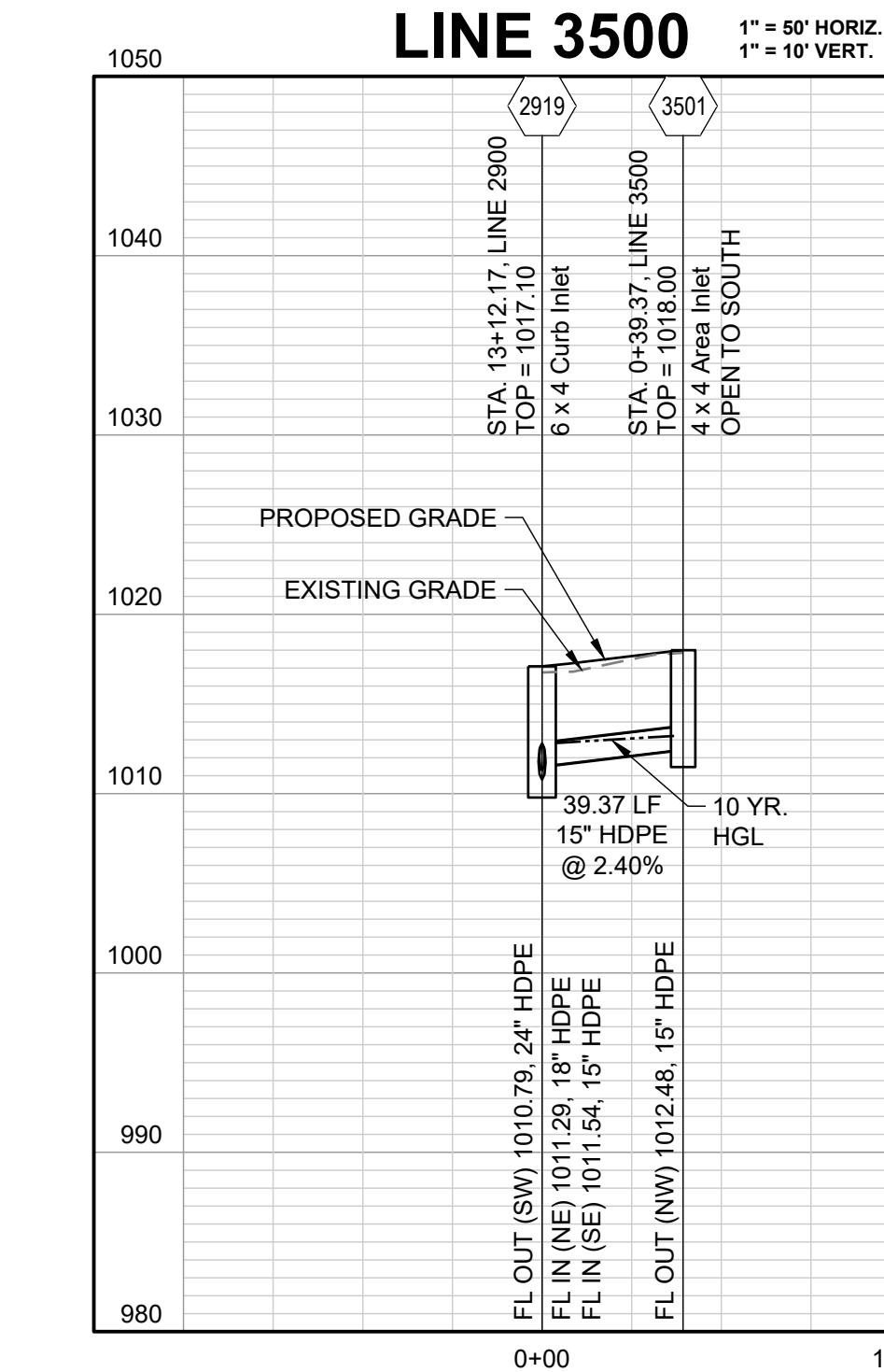
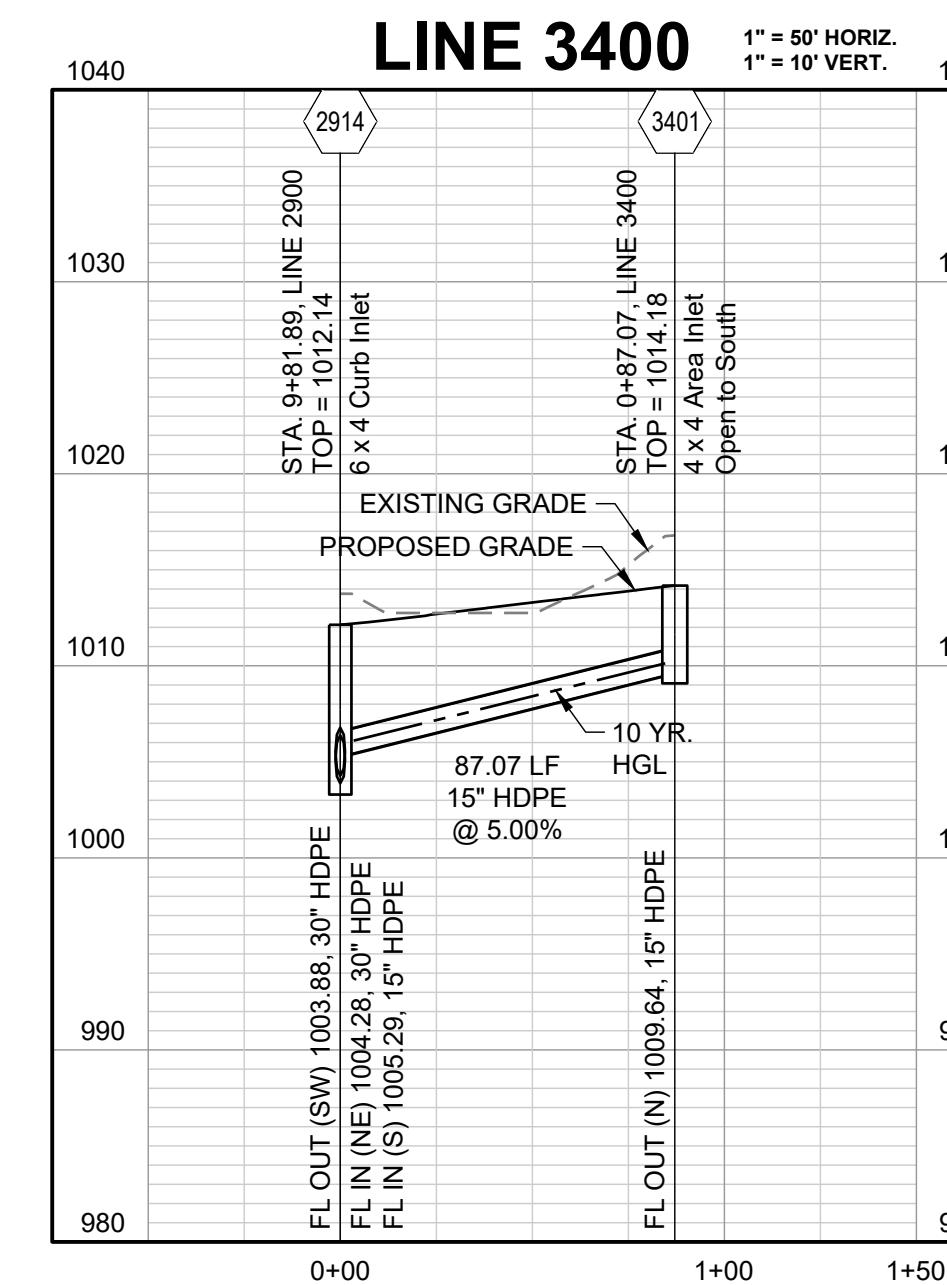
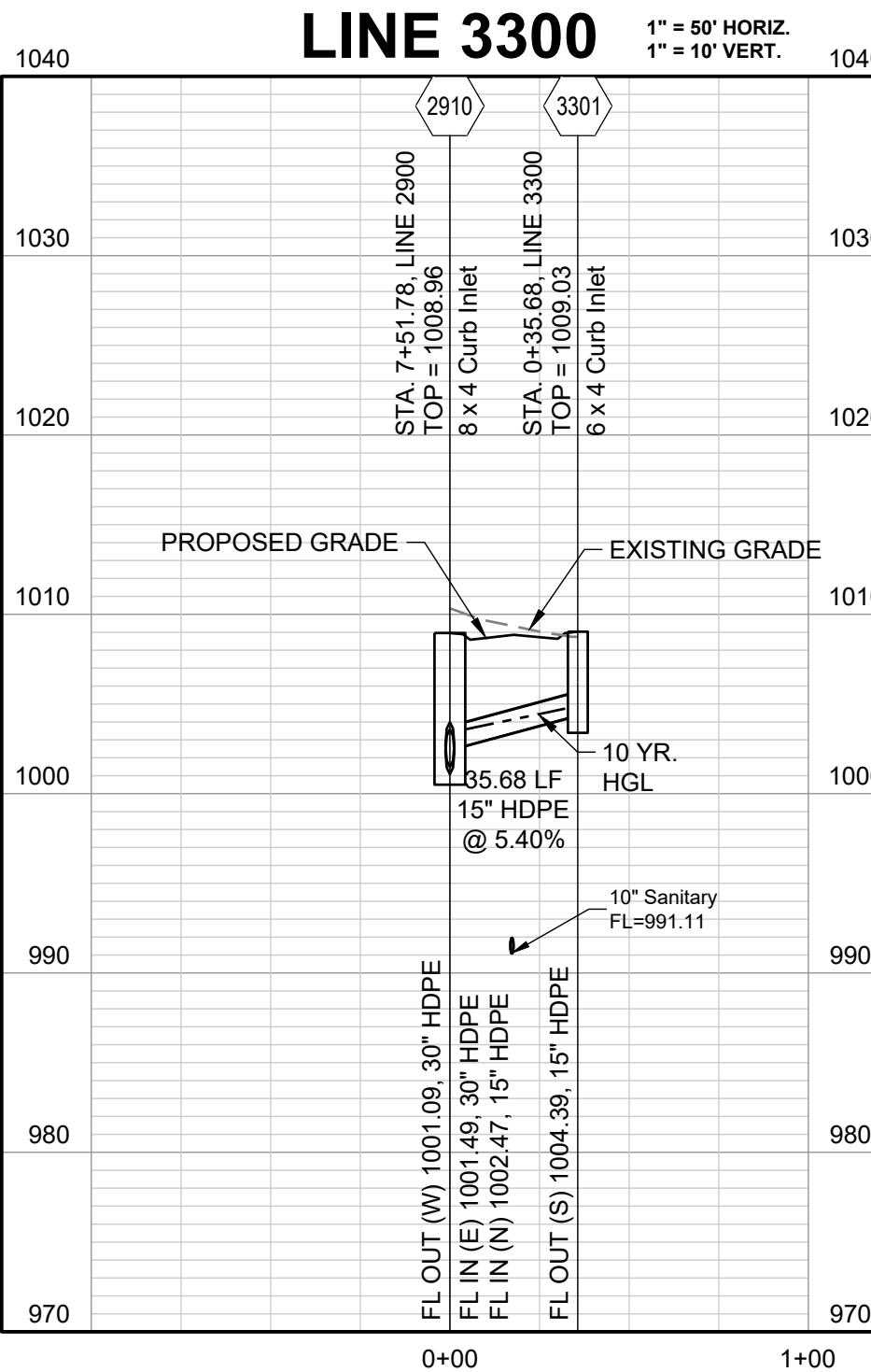


DRAWN BY:		REVISION DATE	DESCRIPTION
NCA		1 01/21/2022	City Comments dated 12/19/2021
		2 04/20/2022	City Comments dated 02/14/2022
CHECKED BY:			
JLL		3 05/17/2022	City Comments Dated 5/11/2022
		4 10/27/2023	Revised Details to current 2023 Details
DATE PREPARED:			
11/05/2021		5	
		6	
		7	
PROJ. NUMBER:			
21-130		8	
		9	

**STORM
PROFILES 4**

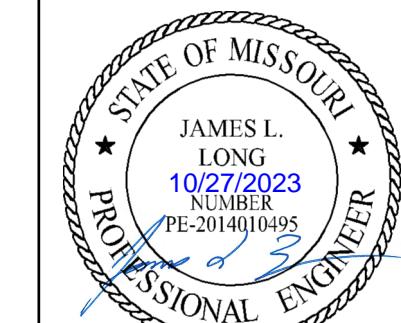
SHEET

21



SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street Lenexa Kansas 66215
(913) 492-5158 • Fax: (913) 492-3400
WWW.SCHLAGELASSOCIATES.COM
MAILING ADDRESS: C/O Schlagel Associates, Inc., Suite 100, 14920 W 107th Street, Lenexa, KS 66215
#E2020038005 F BLAC201000237 A#S202003805-F

PREPARED BY:

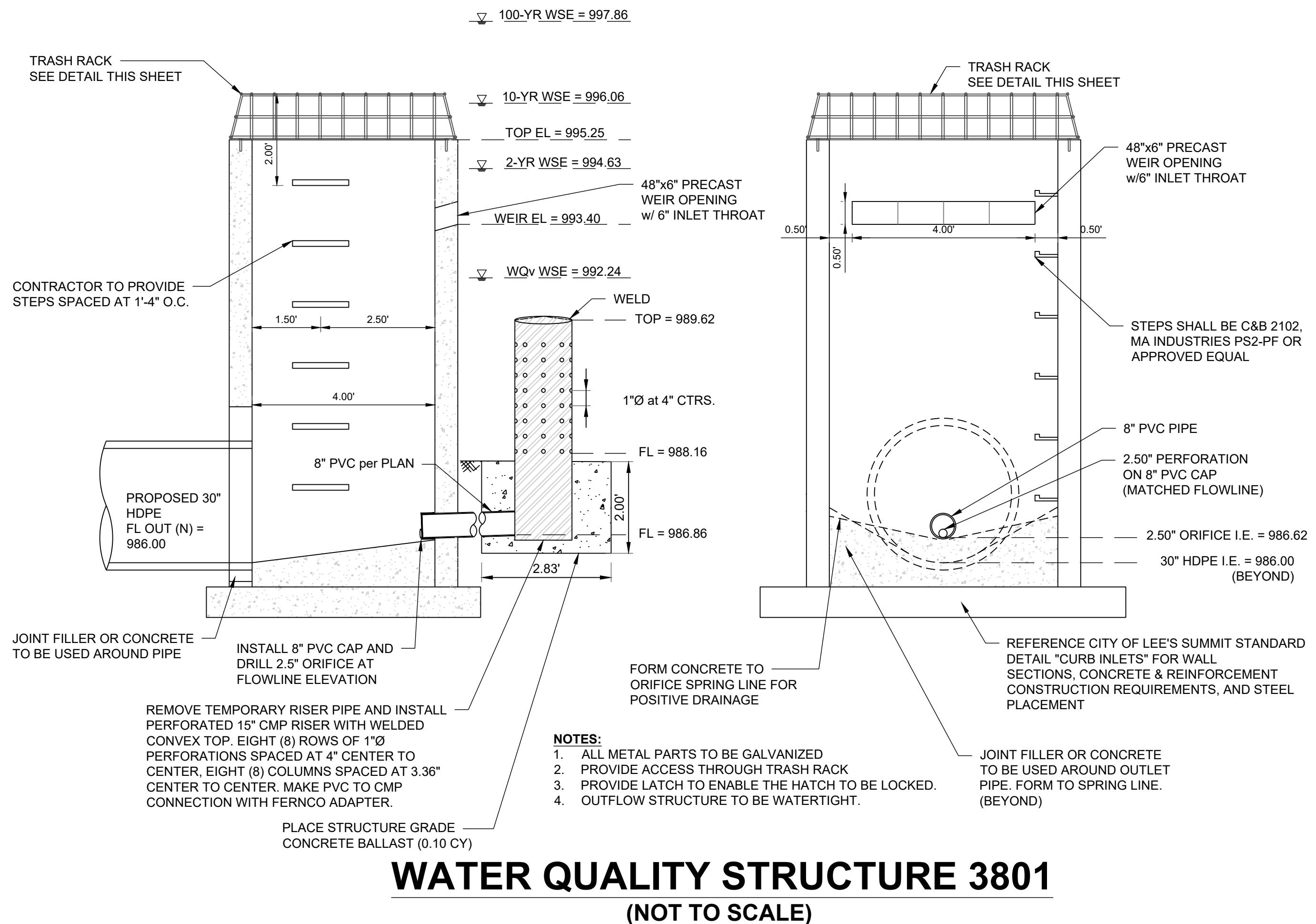


SCHLAGEL & ASSOCIATES, P.A.

**MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER AND MASTER
DRAINAGE PLAN**

**SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI**

SHEET	DRAWN BY: NCA	REVISION DATE: 01/21/2021	DESCRIPTION City Comments dated 01/21/2021
DATE PREPARED: 11/05/2021	CHECKED BY: JLL	Comments dated 01/21/2022	Revised Details to current 2023 Details
PROJ. NUMBER: 21-130			



WATER QUALITY STRUCTURE 3801

(NOT TO SCALE)

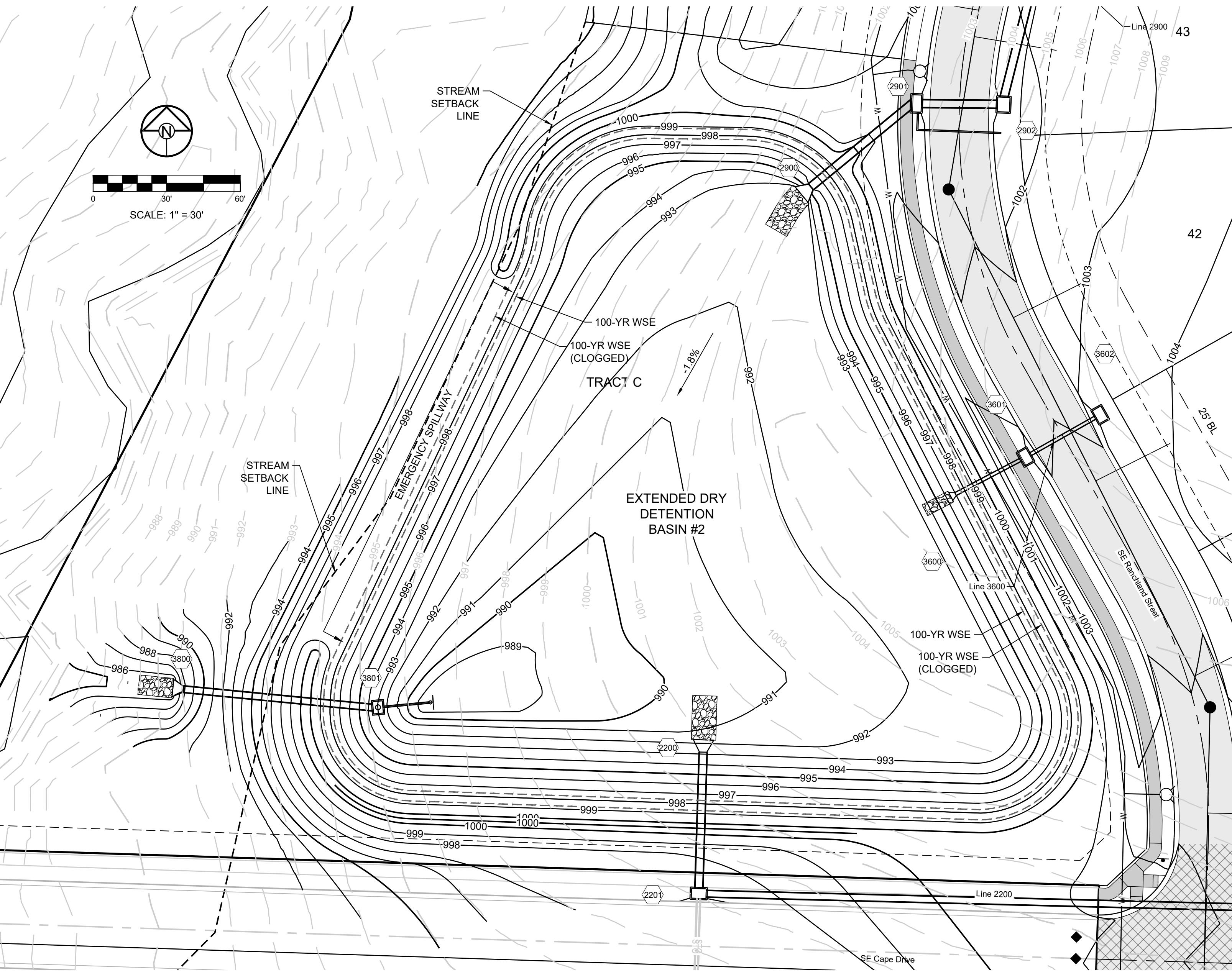
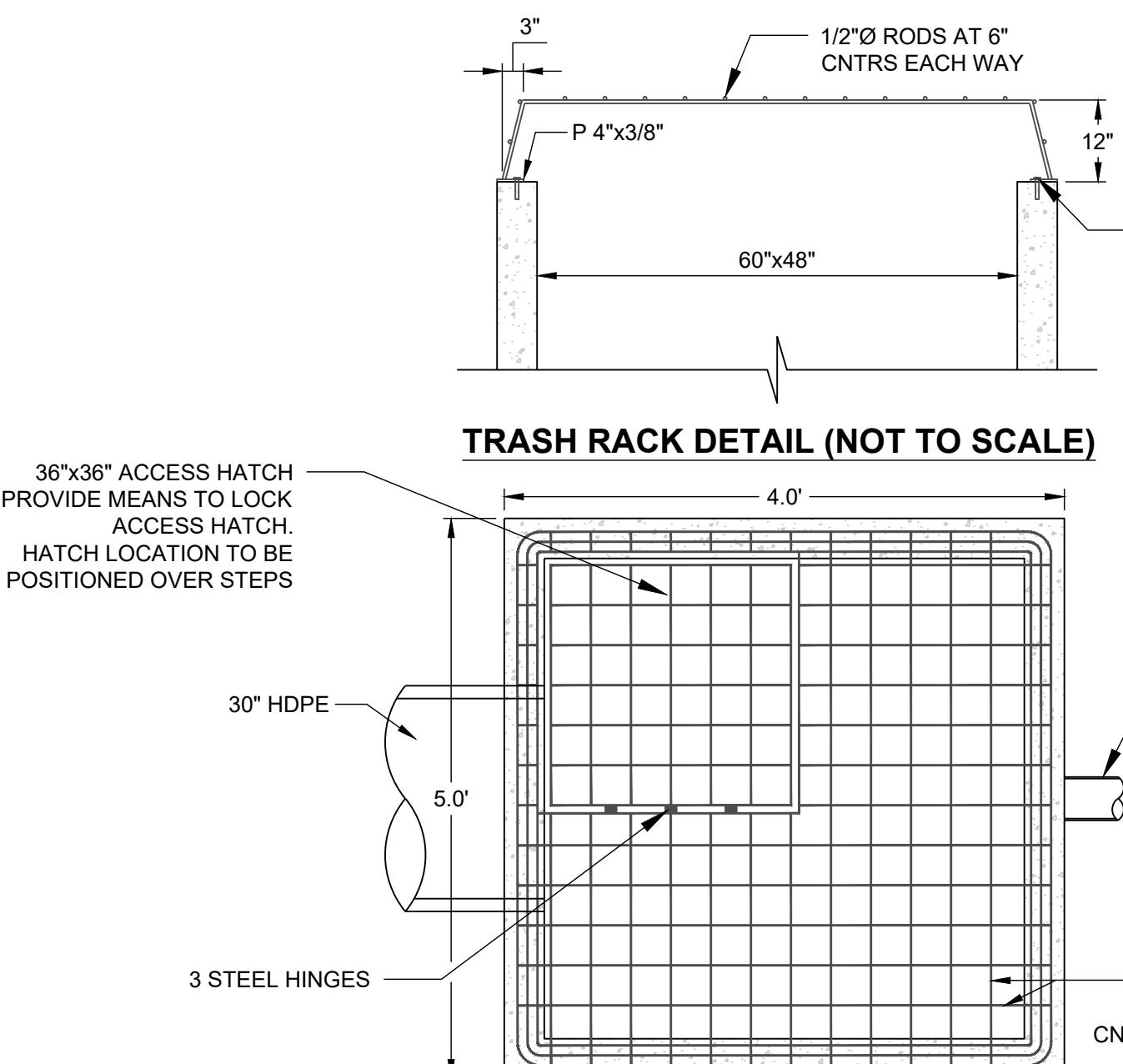
DETENTION STORAGE:

(SEE FINAL STORMWATER MGMT. PLAN)

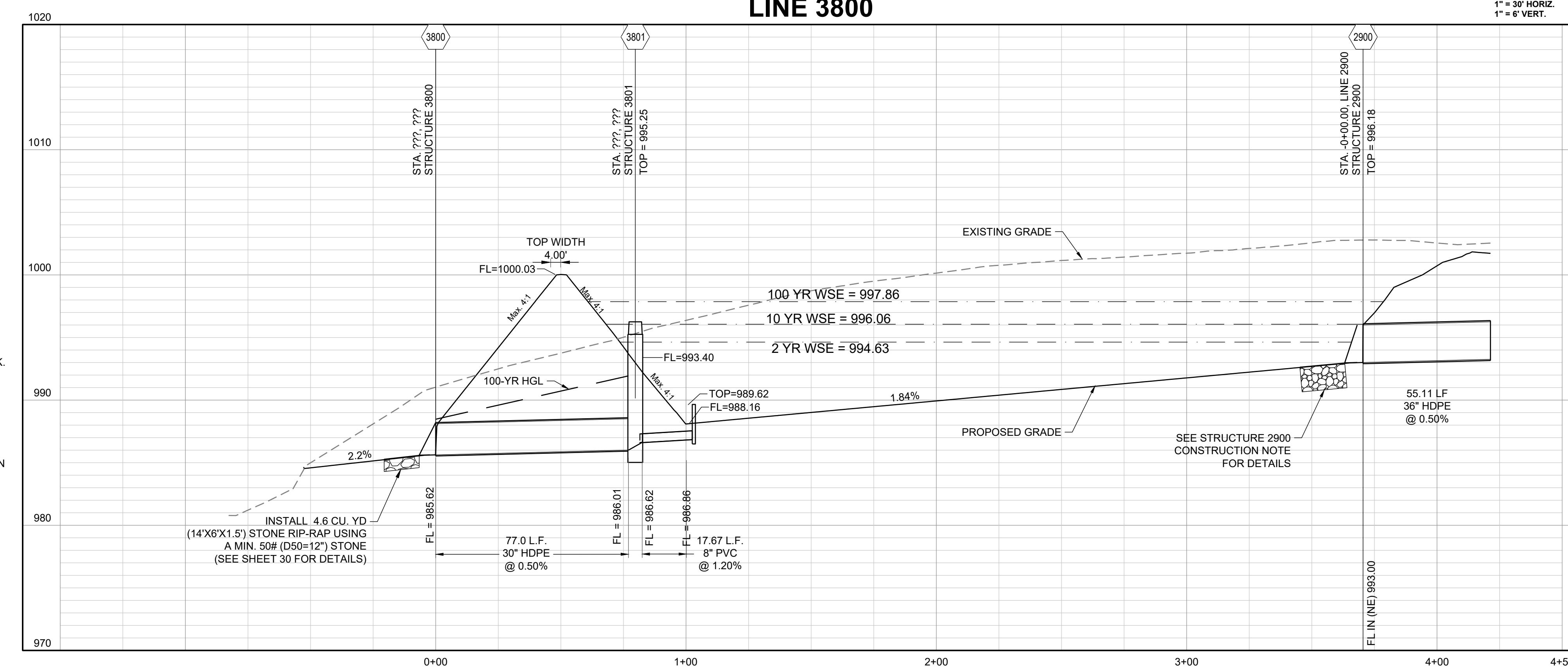
EMERGENCY SPILLWAY DESIGN:
Q(100)= 232.03 CFS, Q=CLH^(3/2), C=3.33,
L = 155 FT, 232.03 CFS = 3.33 * 155 FT * (H^(3/2)), H = 0.59 FT

**WATER SURFACE ELEVATION THROUGH SPILLWAY =
+ ONE (1) FOOT OF FREEBOARD =
SET BASIN TOP AT**

DETENTION BASIN STORAGE VOLUME	
DESIGN STORM	VOLUME (CUBIC FEET)
2-YEAR	122,558
10-YEAR	189,935
100-YEAR	285,540



LINE 3800



**MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN**

SE BAILEY ROAD AND SE RANSON ROAD



PREPARED BY:

 JAMES L.
LONG
10/27/2023
NUMBER
PE-201004495

SCHLAGEL & ASSOCIATES, P.A.

MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI

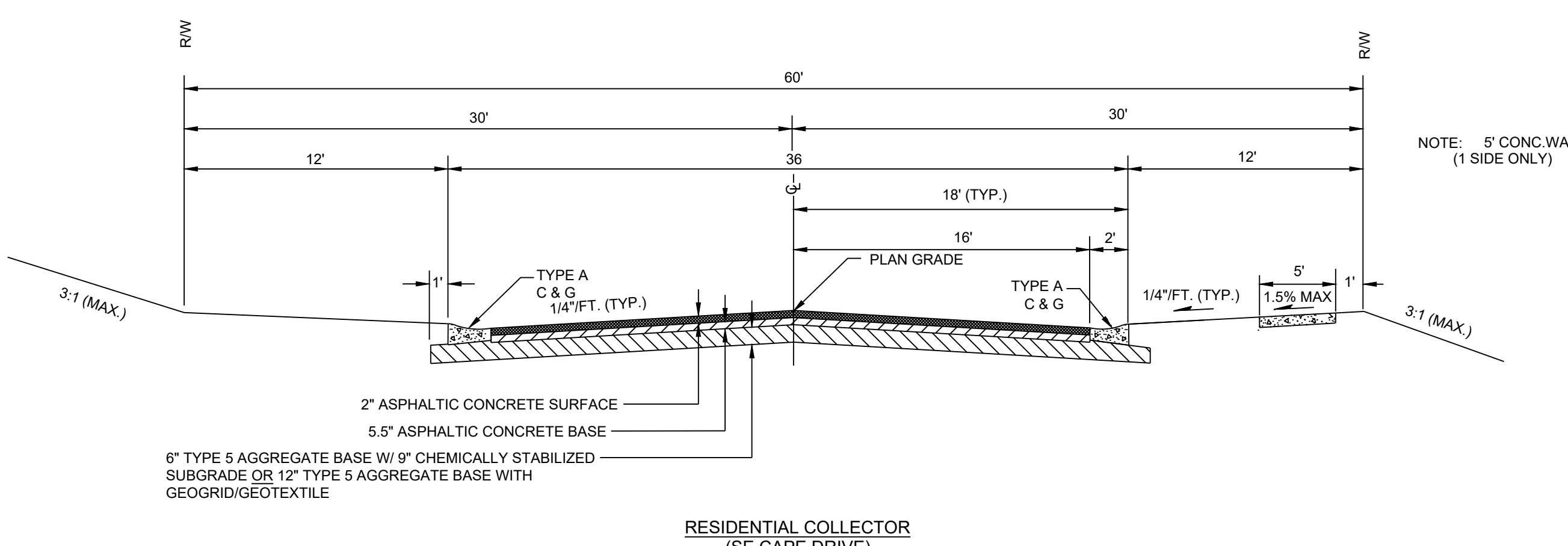
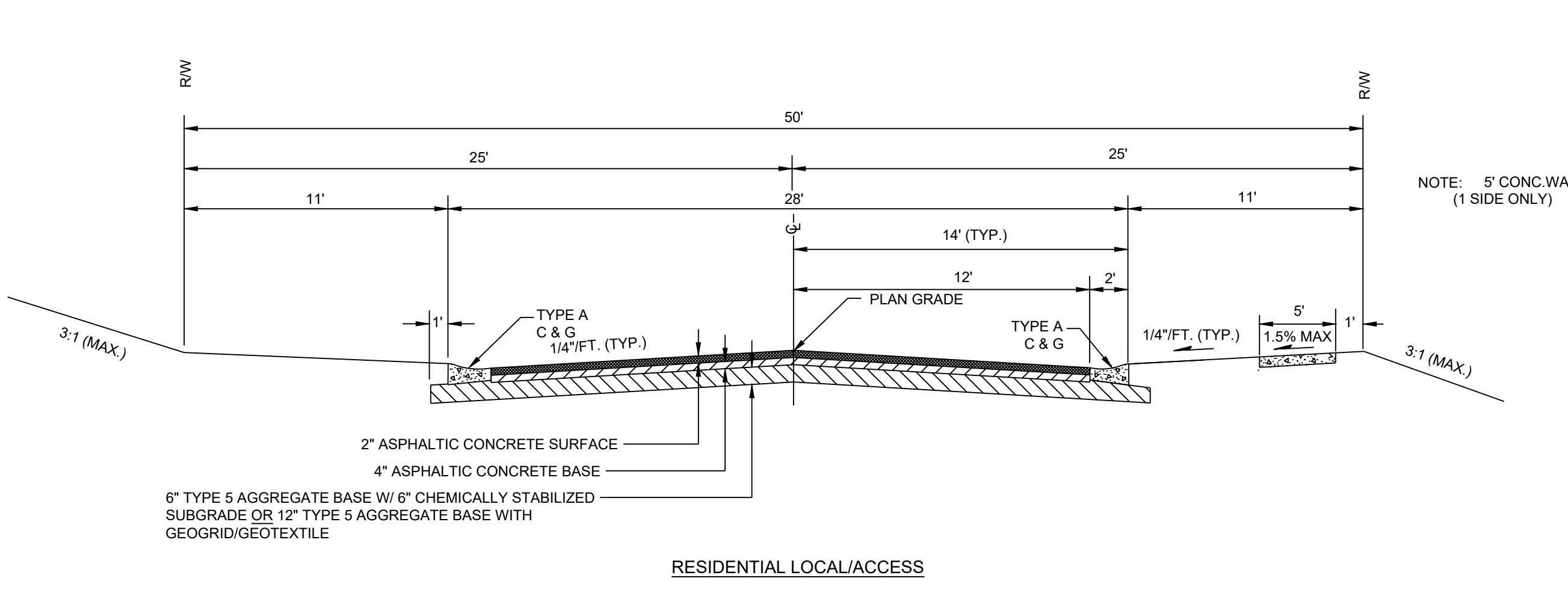


TABLE LS-2: MINIMUM ASPHALT PAVEMENT THICKNESSES

Street Classification	Pavement Option	AC Surface (in.)	AC Base (in.)	Aggregate Base (in.)	Chemical Subgrade Stabilization (in.)	Geogrid / Geotextile ⁽¹⁾
Residential Local/Access	A	2	4	6	6	--
	B	2	4	12	--	Geogrid / Geotextile
Residential Collector	A	2	5.5	6	9	--
	B	2	5.5	12	--	Geogrid / Geotextile
Commercial Industrial Local/Collector	A	2	7.5	6	9	--
	B	2	7.5	12	--	Geogrid / Geotextile

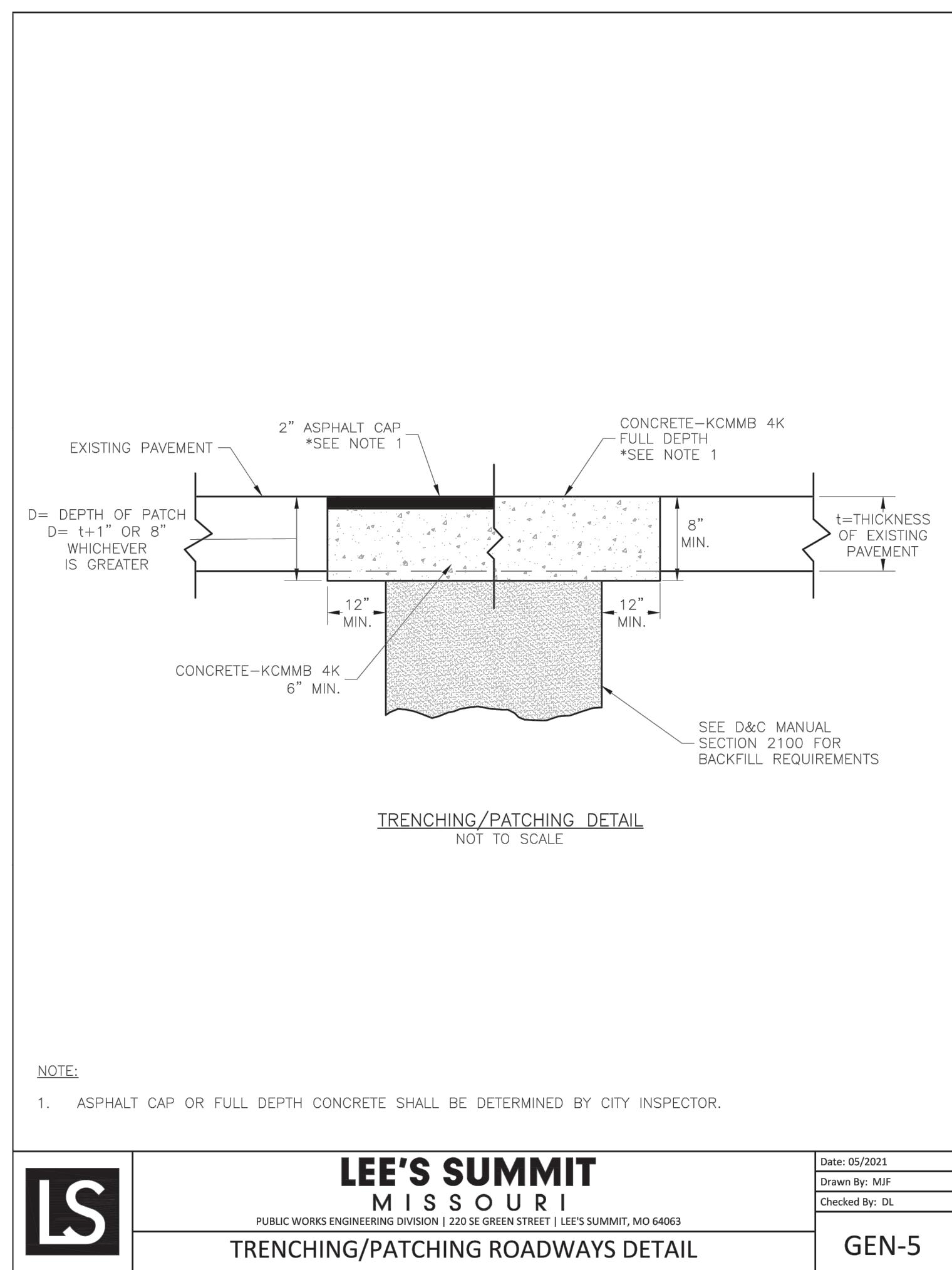
Notes:

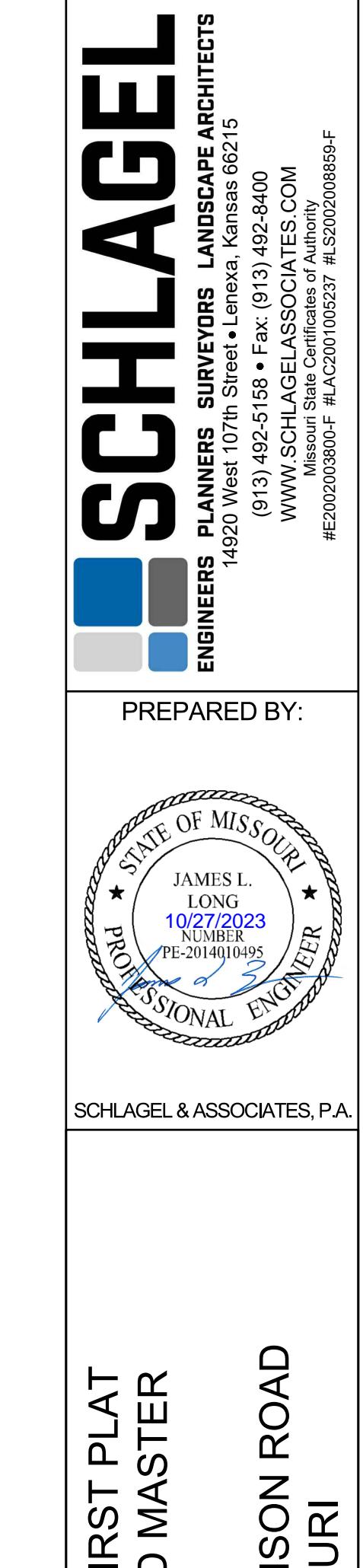
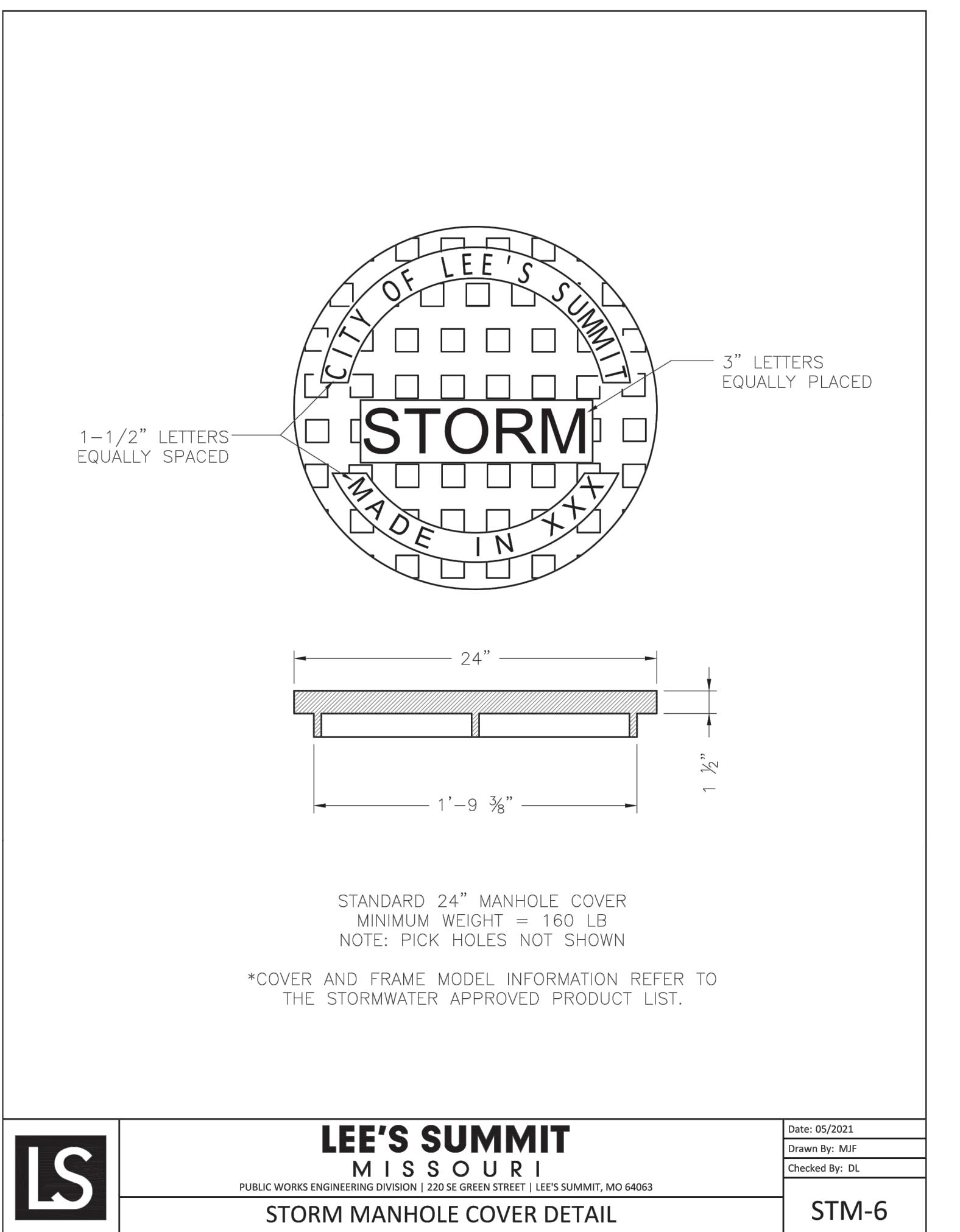
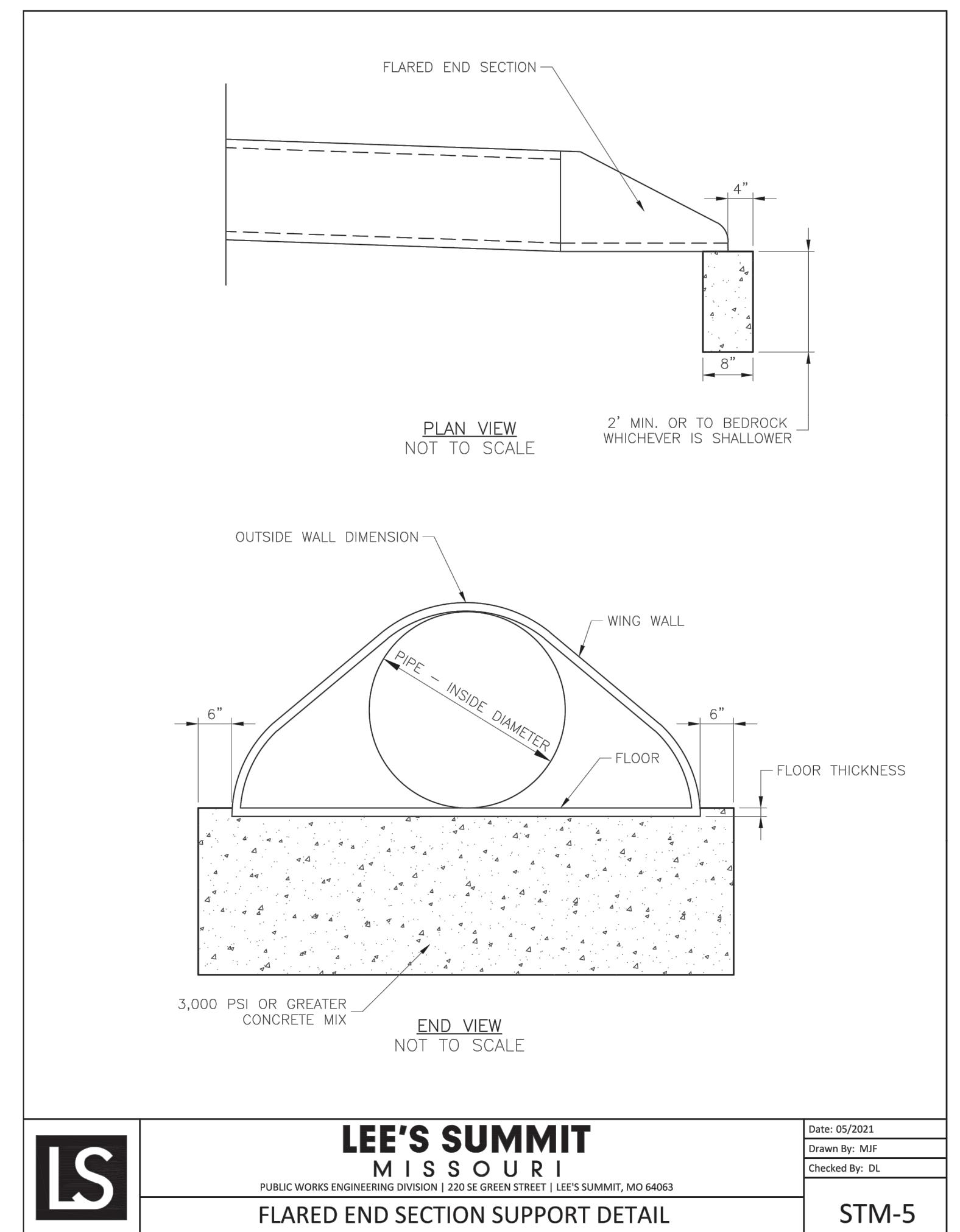
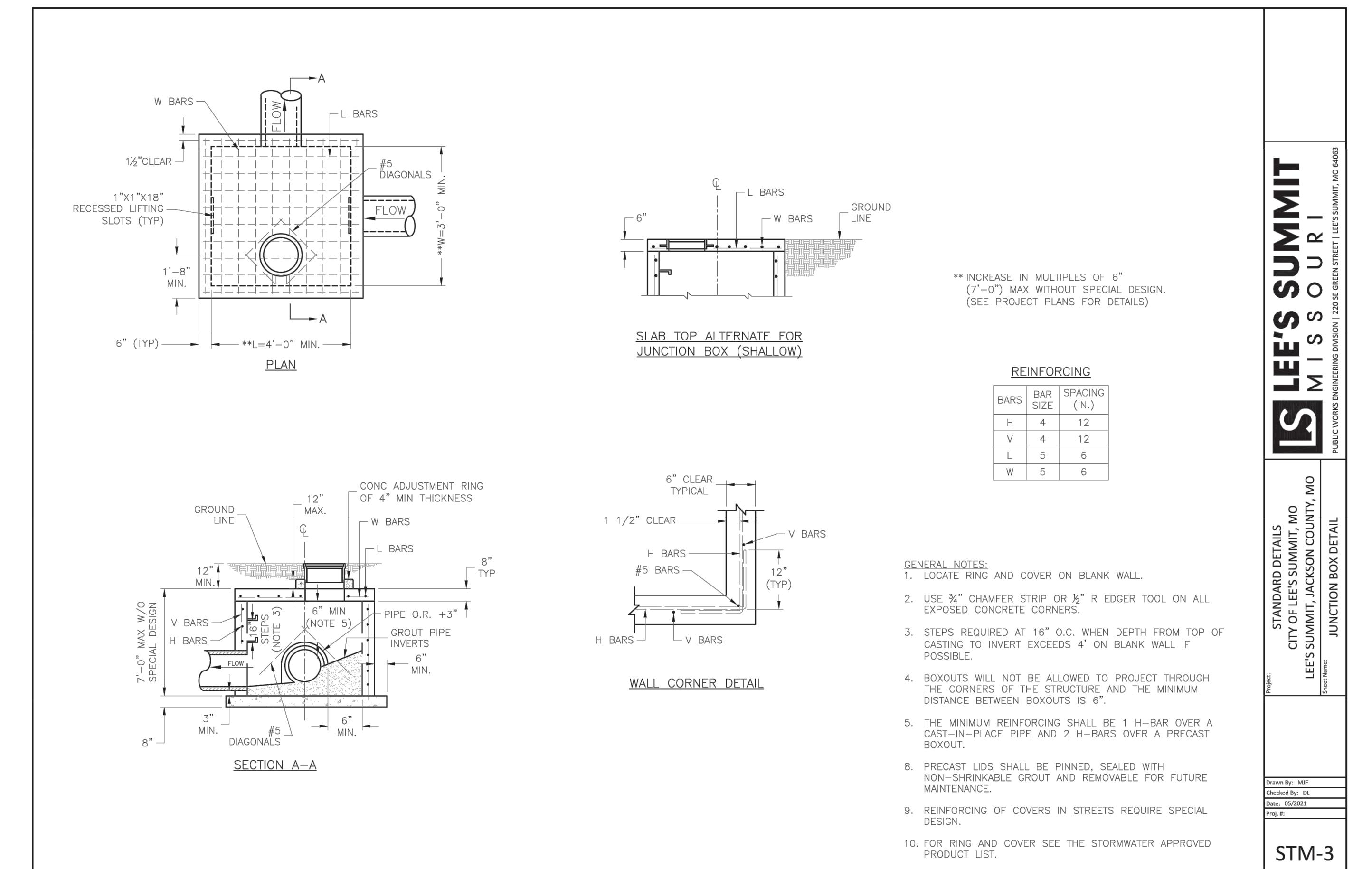
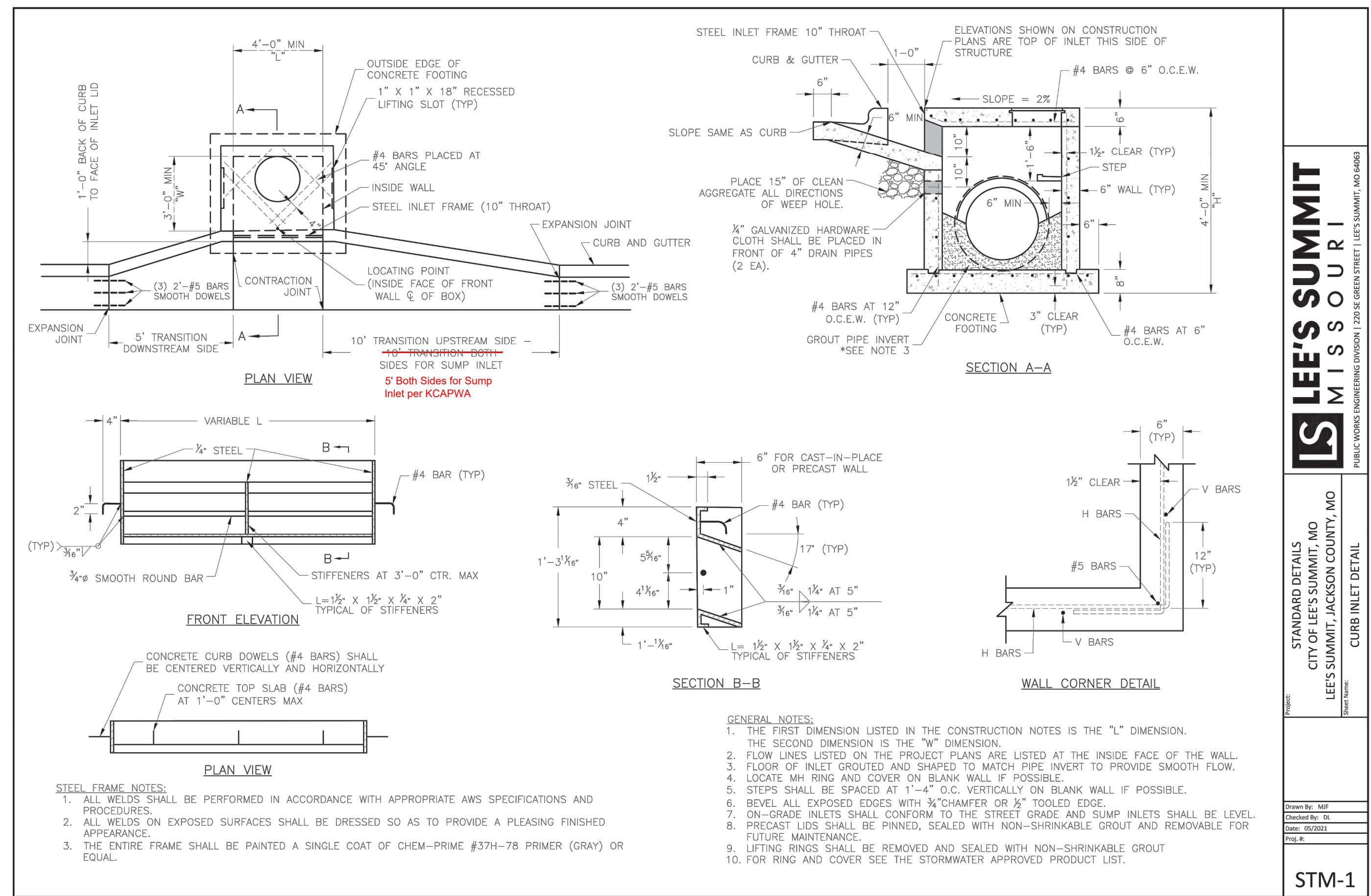
(1) Geogrid shall be polypropylene material and Geotextile shall be woven, polypropylene as shown in the City's Approved Products List

LS5200

17

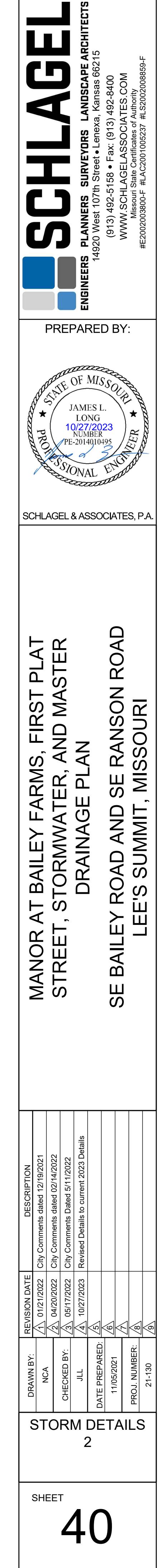
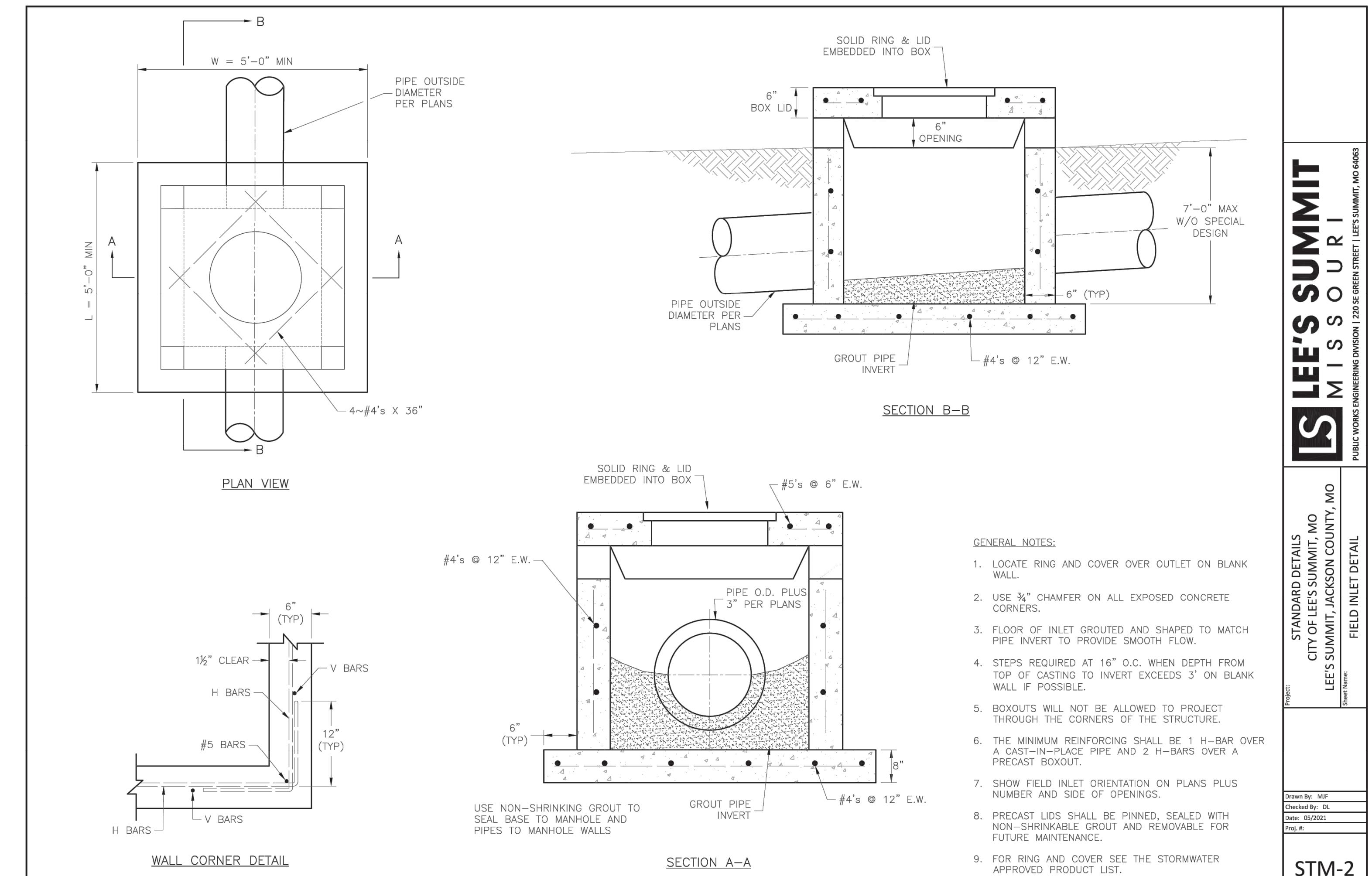
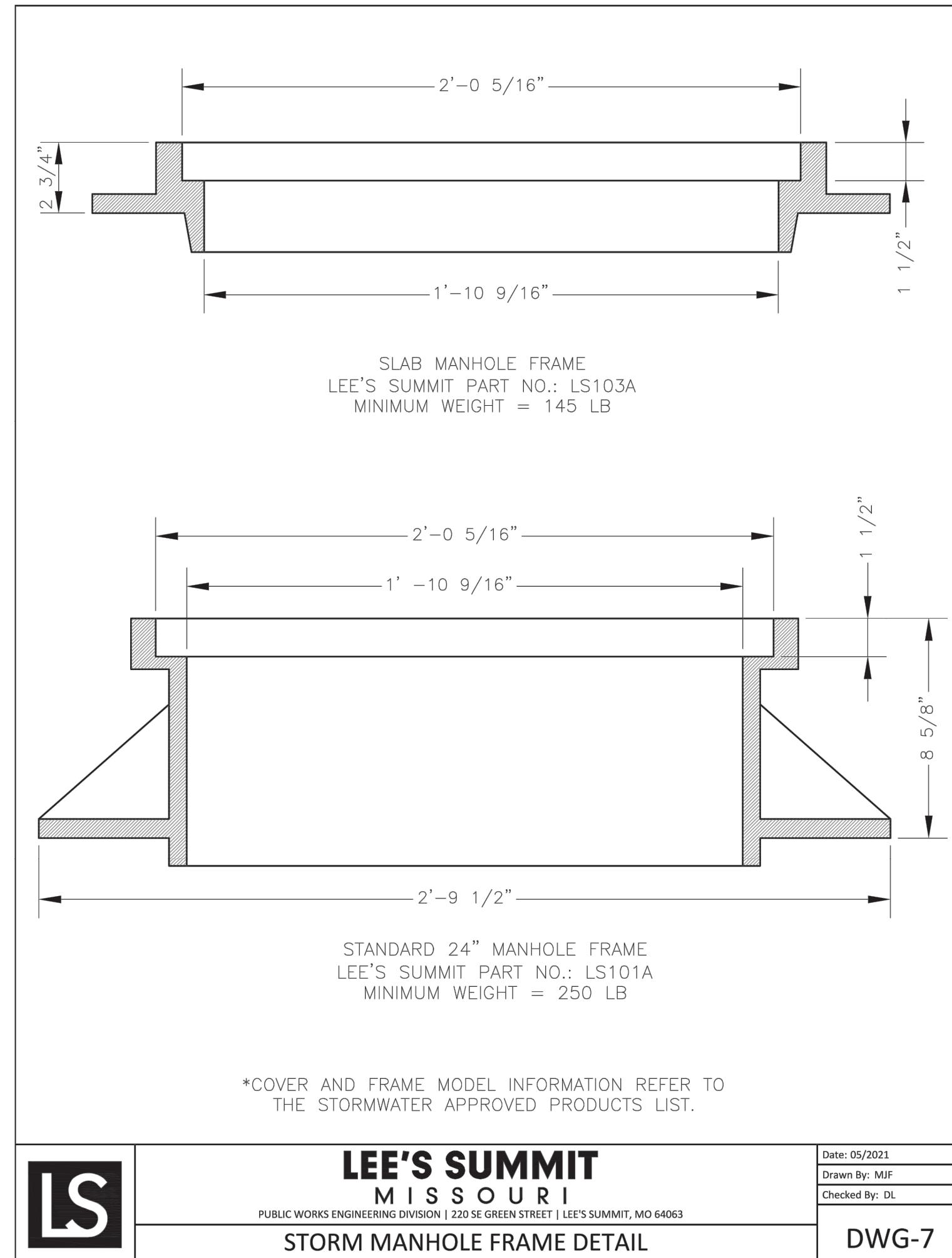
July 2020

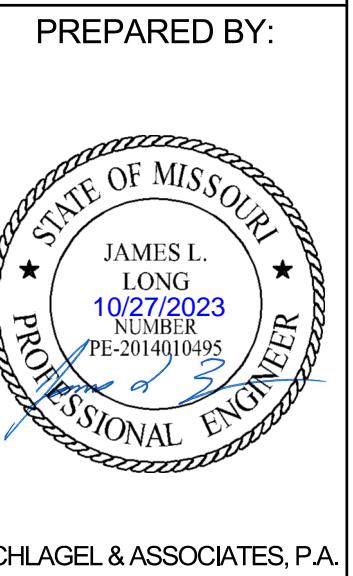




**MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER AND MASTER
DRAINAGE PLAN**

**SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI**

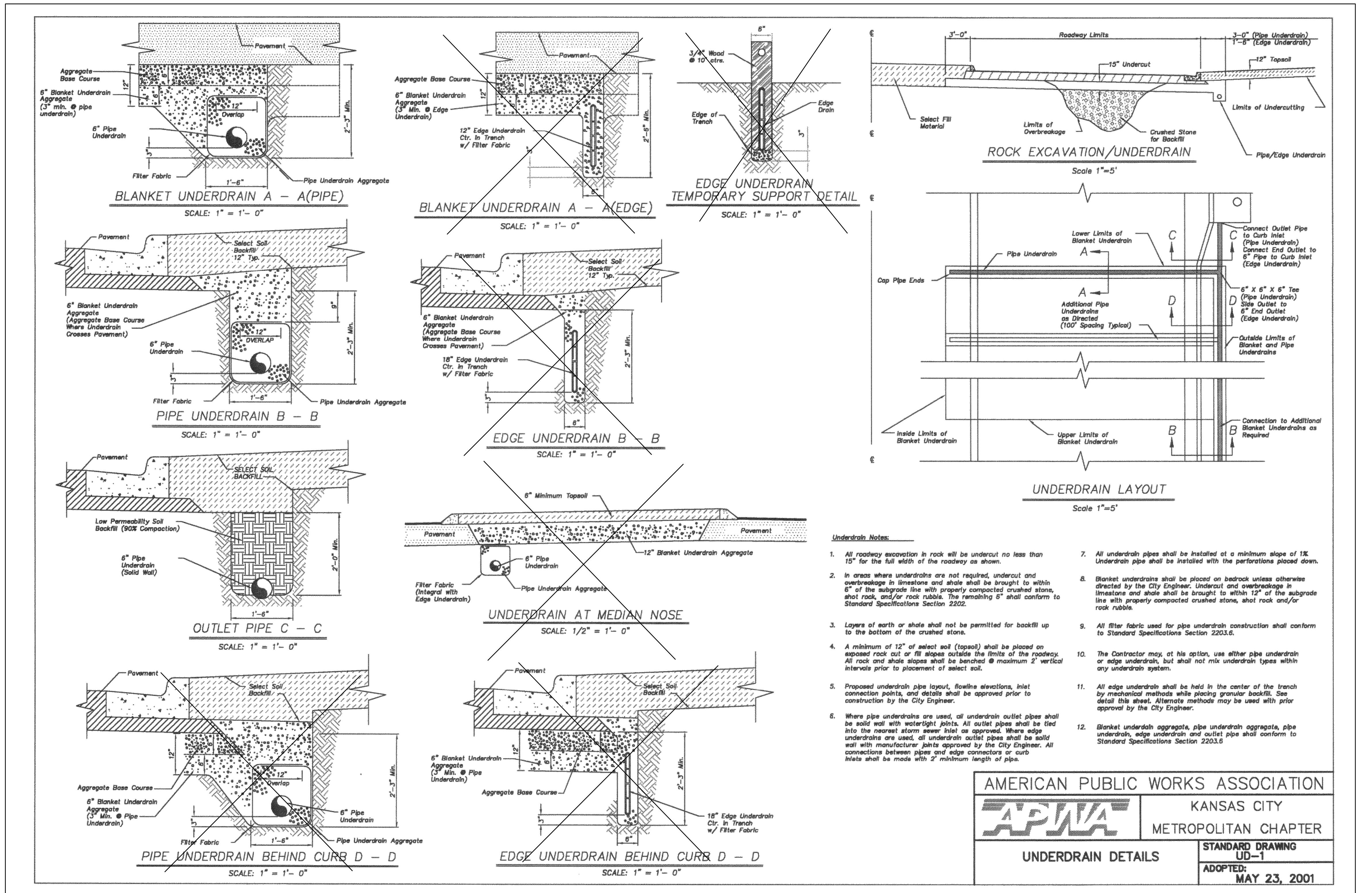




PREPARED BY:

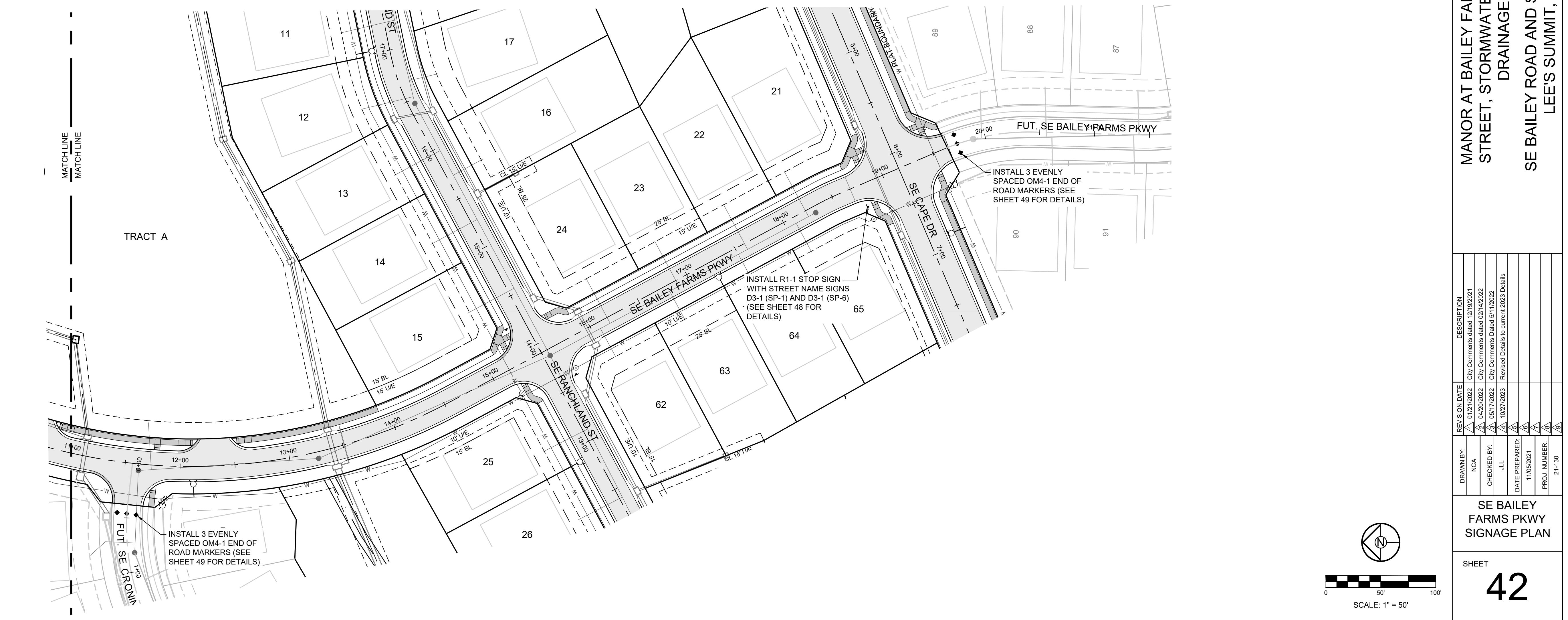
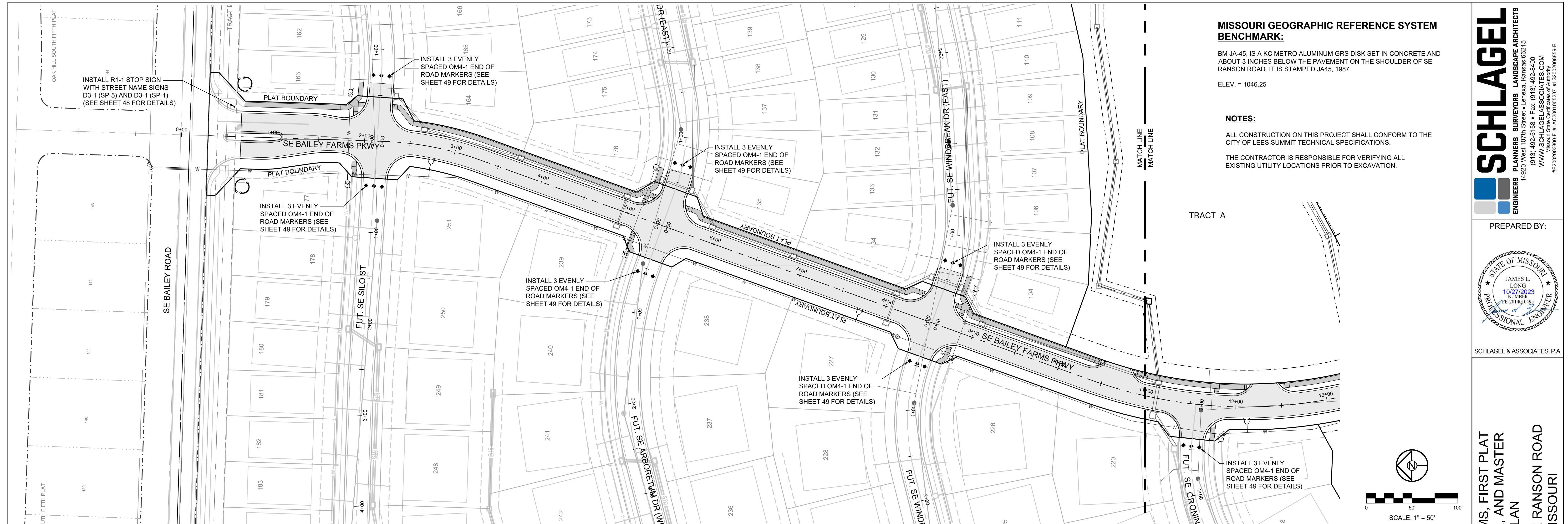
SCHLAGEL & ASSOCIATES, P.A.

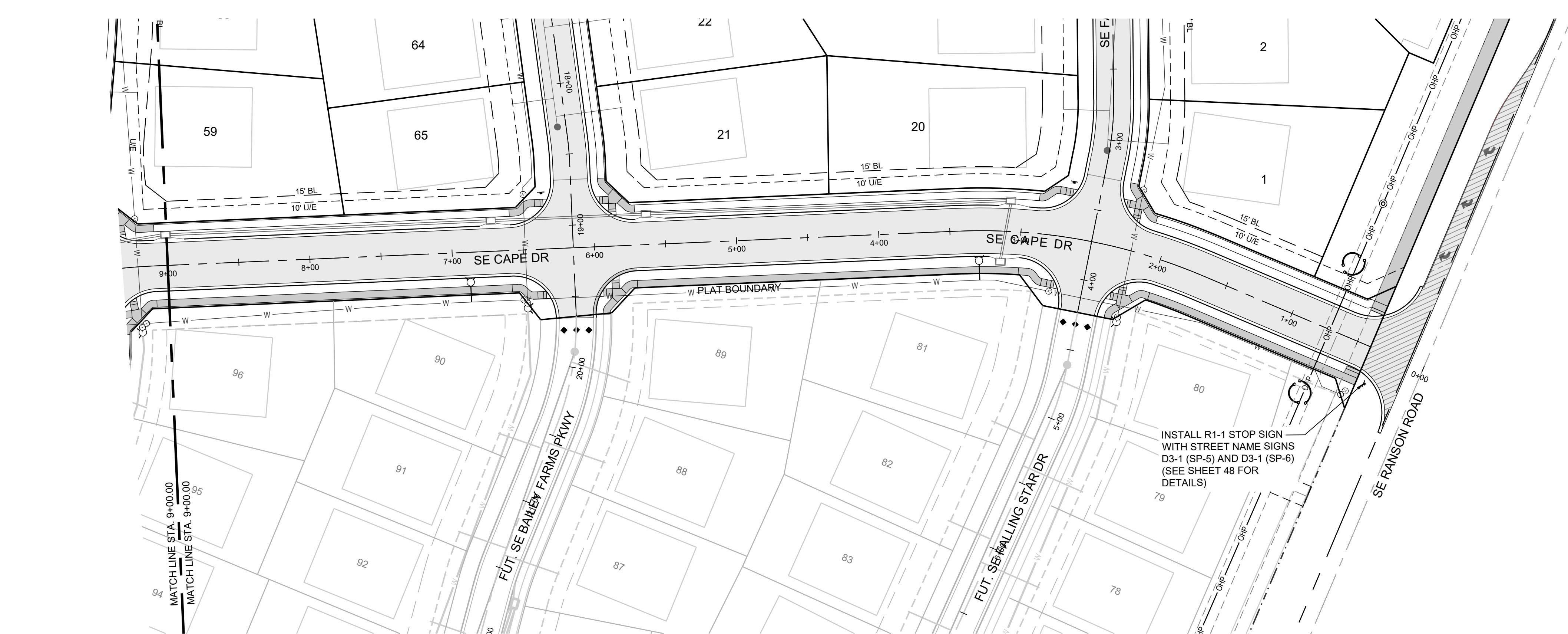
MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI



AMERICAN PUBLIC WORKS ASSOCIATION	
KANSAS CITY METROPOLITAN CHAPTER	
UNDERDRAIN DETAILS	
STANDARD DRAWING	UD-1
ADOPTED:	MAY 23, 2001

SHEET	DRAWN BY:	REVISION DATE	DESCRIPTION
	NCA	01/21/2021	City Comments dated 01/21/2021
		04/20/2022	City Comments dated 04/20/2022
		05/17/2022	City Comments dated 05/17/2022
	JLL	10/27/2023	Revised Details to current 2023 Details
STORM UNDERDRAIN DETAILS	CHECKED BY:	DATE PREPARED	PROJ. NUMBER:
		11/05/2021	1





**MISSOURI GEOGRAPHIC REFERENCE SYSTEM
BENCHMARK:**

BM JA-45, IS A KC METRO ALUMINUM GRS DISK SET IN CONCRETE AND ABOUT 3 INCHES BELOW THE PAVEMENT ON THE SHOULDER OF SE RANSON ROAD. IT IS STAMPED JA45, 1987.

ELEV. = 1046.25

NOTES:

ALL CONSTRUCTION ON THIS PROJECT SHALL CONFORM TO THE CITY OF LEES SUMMIT TECHNICAL SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATION.

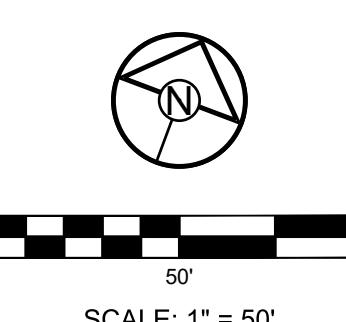
SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS

14920 West 107th Street Lenexa Kansas 66215
(913) 492-5158 • Fax: (913) 492-3400
WWW.SCHLAGELASSOCIATES.COM
MAIL: SCHLAGEL ASSOCIATES, INC., 14920 WEST 107TH STREET, LENEXA, KS 66215
#E2020038005 F-BLAC201000237 #S2020038859-F

PREPARED BY:

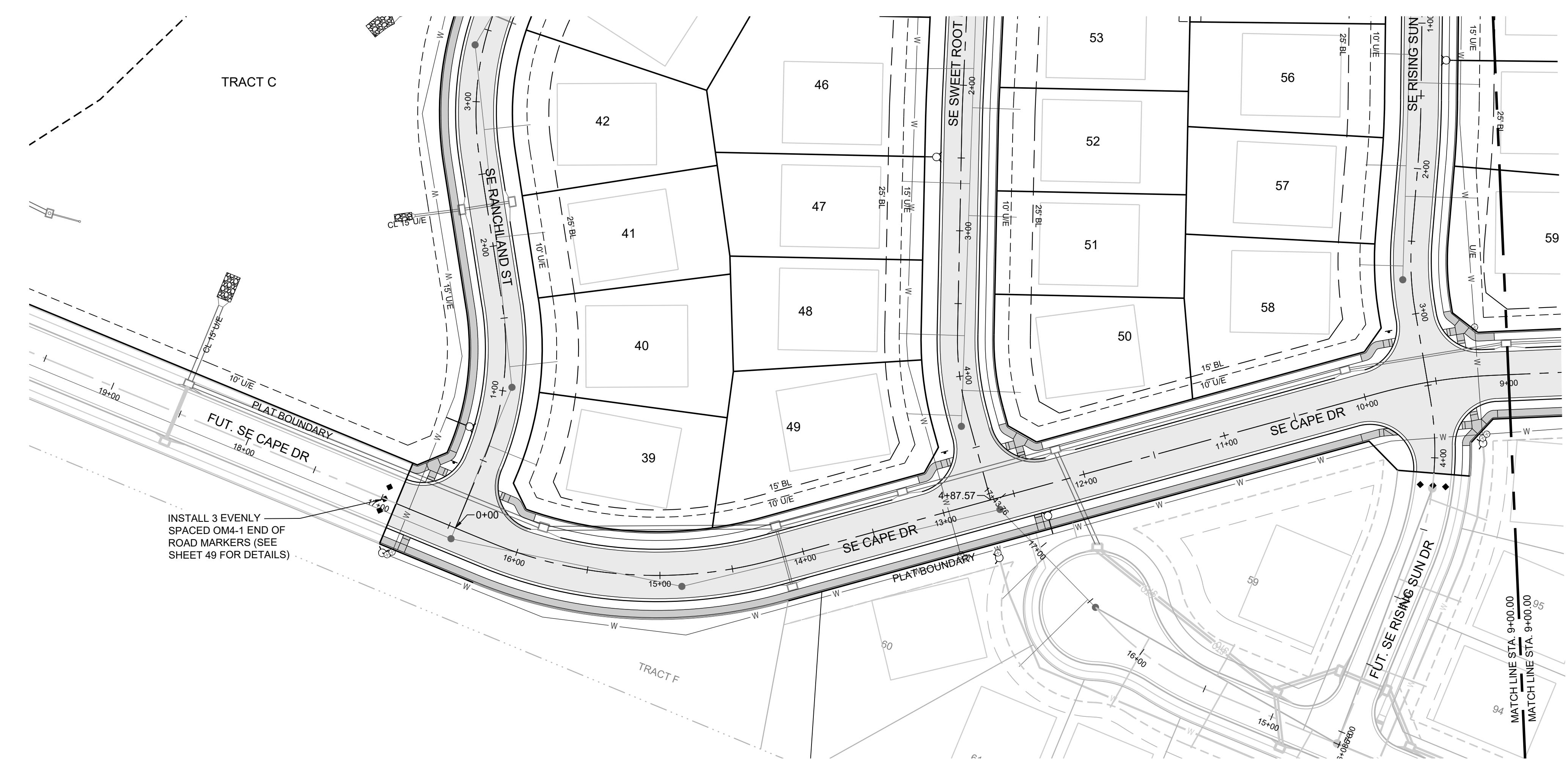


SCHLAGEL & ASSOCIATES, P.A.



SCALE: 1" = 50'

**MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER, AND MASTER
DRAINAGE PLAN**
**SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI**

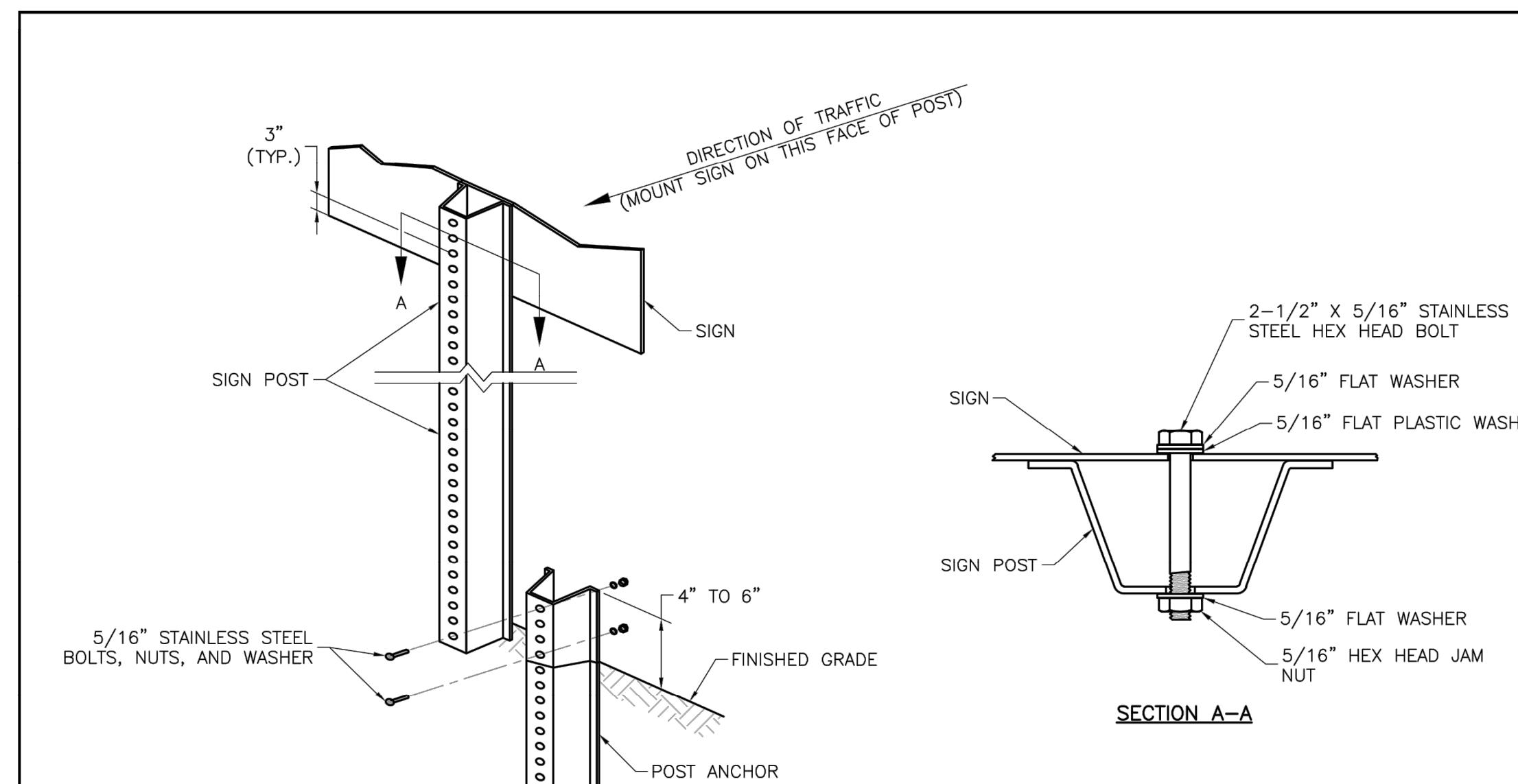


SCALE: 1" = 50'

44

SHEET	DRAWN BY: NCA	REVISION DATE: 01/21/2022	DESCRIPTION	
			CITY COMMENTS DATED 02/16/2021	CITY COMMENTS DATED 02/16/2022
SE CAPE DR SIGNAGE PLAN	CHECKED BY: JLL	01/21/2022 05/17/2022	CITY COMMENTS DATED 02/16/2022	REVISED DETAILS TO CURRENT 2023 DETAILS
	DATE PREPARED: 1/10/2021			
	PROJ. NUMBER: 21-130			

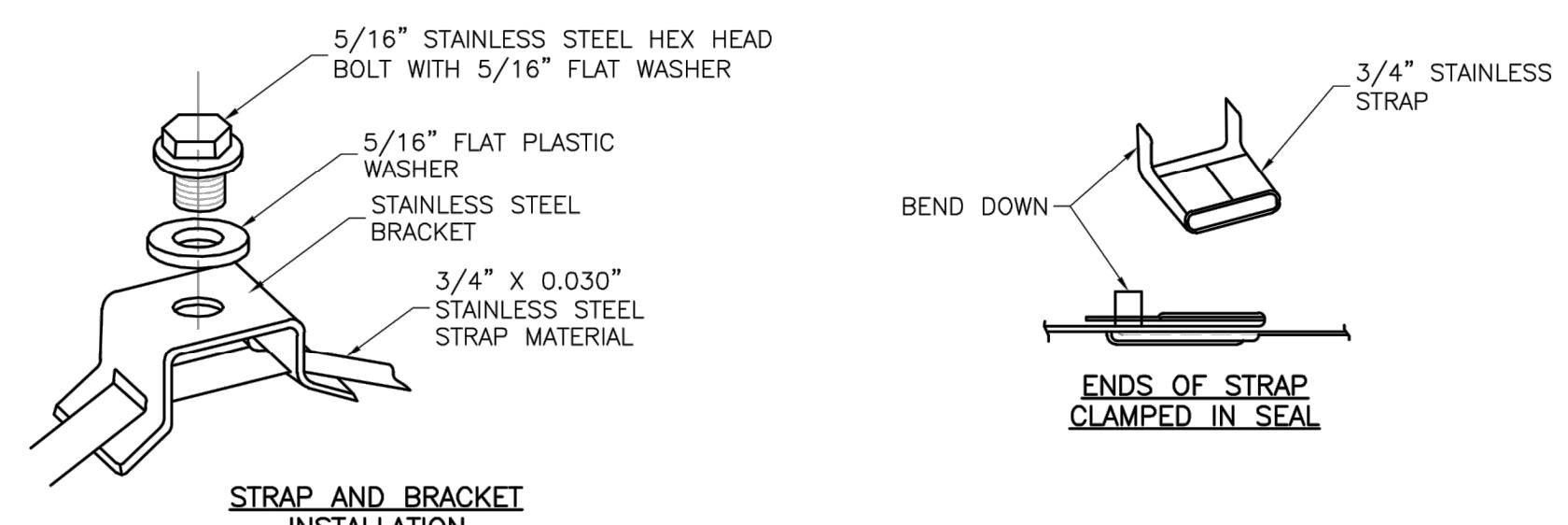




U-STEEL POST DETAILS

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 TYPE SIGN SUPPORT DETAILS

NOTES:

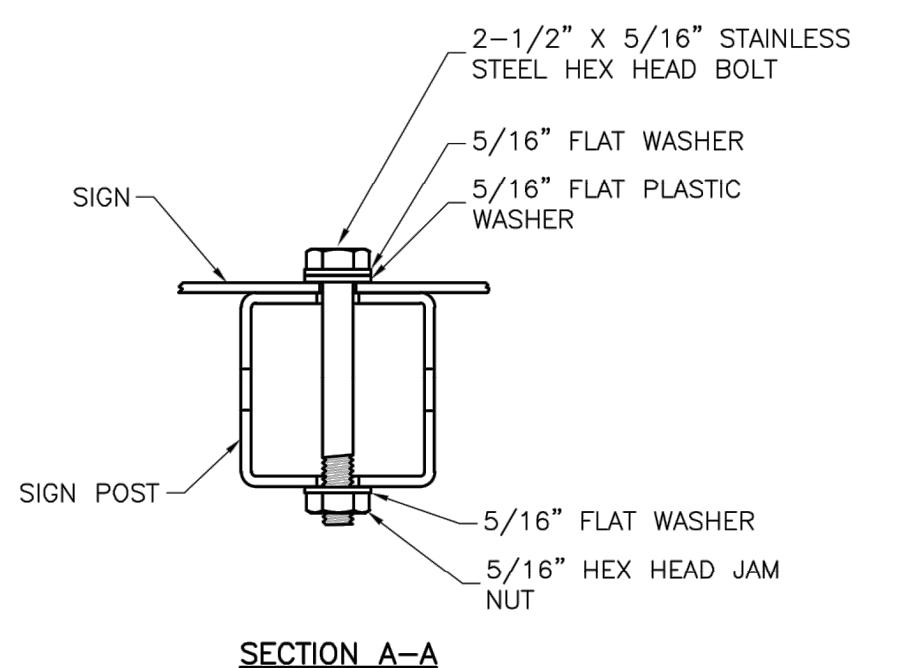
1. SIGNS ON METAL POLES SHALL BE ATTACHED WITH TWO BRACKETS AND STAINLESS STEEL BANDS.
2. HOLES IN SIGN FOR ATTACHMENT TO THE MOUNTING BRACKETS SHALL BE OFFSET A MINIMUM OF 2 INCHES FROM THE EDGE OF THE SIGN.
3. HOLES IN SIGN SHALL BE LOCATED SUCH THAT THE SIGN IS LEVEL.
4. ALL STRAP, BRACKET, AND SEAL MATERIALS SHOULD BE TYPE 201 STAINLESS STEEL.

PERMANENT SIGNING GENERAL NOTES:

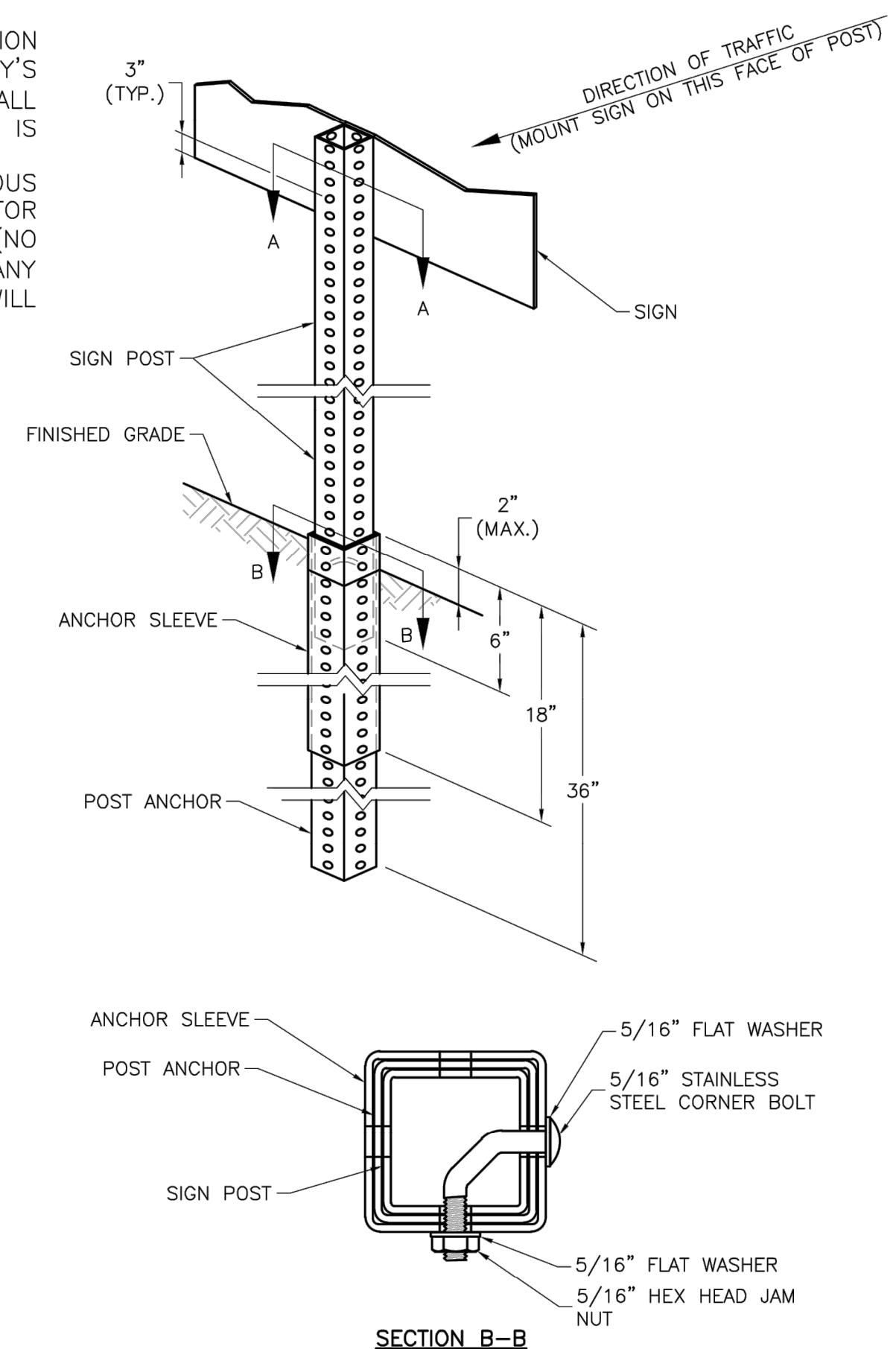
1. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. THE CONTRACTOR IS RESPONSIBLE FOR AVOIDING ANY AND ALL UTILITIES WHEN INSTALLING SIGN POSTS, WHETHER THE UTILITY IS INDICATED ON THE PLANS OR NOT.
3. ALL WORKMANSHIP AND MATERIALS 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.
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 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 HAMBLIN ROAD). THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND STORING EQUIPMENT IN GOOD CONDITION AND IS FULLY RESPONSIBLE FOR THE EQUIPMENT UNTIL IT IS DELIVERED.
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.

SQUARE STEEL POST INSTALLATION SEQUENCE:

1. SIGN POST ANCHOR DRIVEN PARTIALLY INTO THE GROUND USING A DRIVE CAP WITH A SLEDGE OR POWER EQUIPMENT.
2. ANCHOR SLEEVE SLIPPED OVER ANCHOR AND DRIVE INTO THE GROUND TOGETHER WITH THE SIGN POST ANCHOR.
3. INSERT SIGN POST INTO THE POST ANCHOR AND BOLT IN PLACE.



CORNER BOLT



SQUARE STEEL POST DETAILS

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 1/2" X 2 1/2" X 18" SQUARE STEEL POST
2. 14 GA. 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 OR EQUAL TO 48" (NOT INCLUDING 36" X 36" DIAMOND SHAPED SIGNS) WILL REQUIRE TWO POSTS.

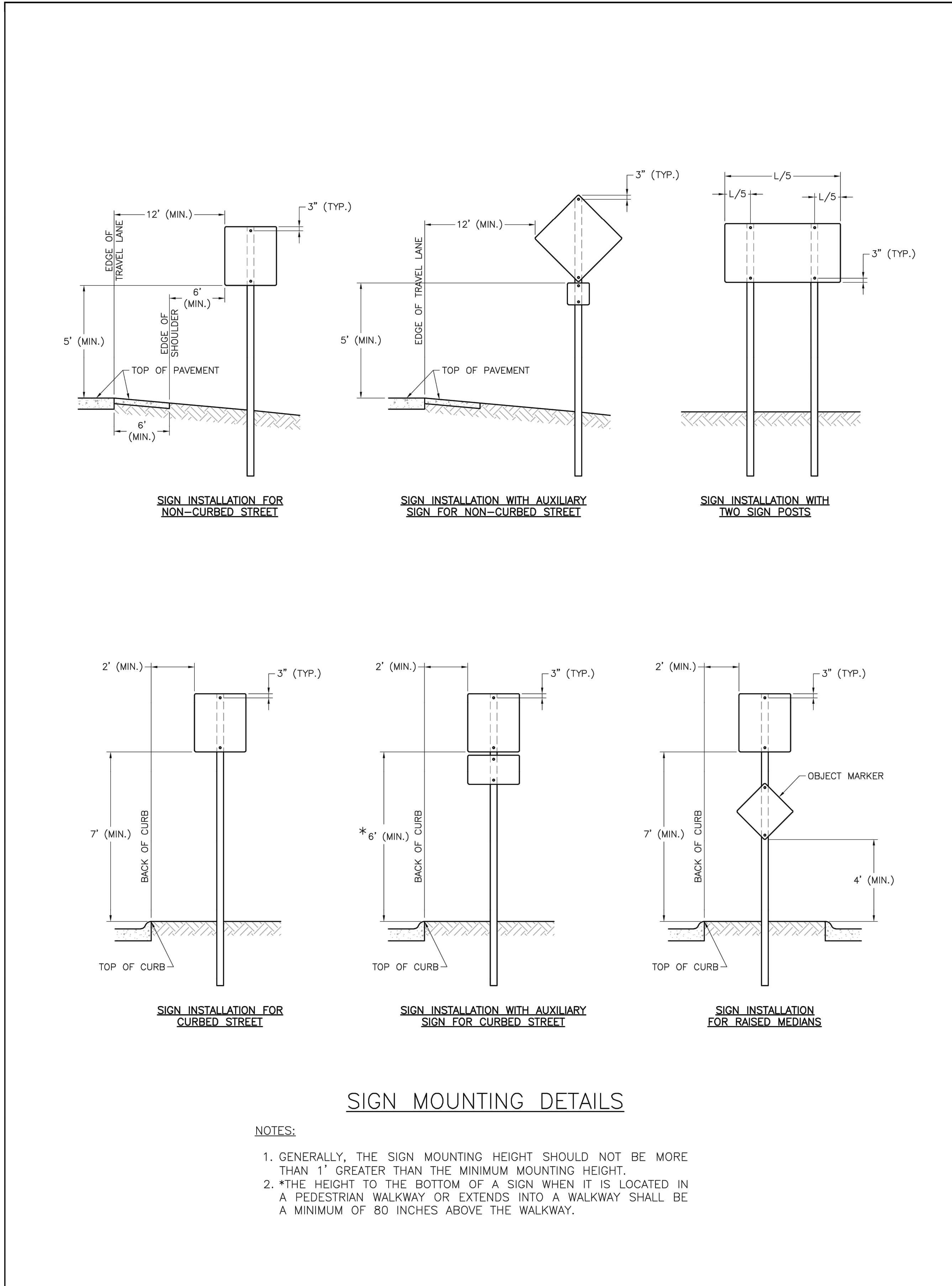
MANOR AT BAILEY FARMS, FIRST PLAT STREET, STORMWATER AND MASTER DRAINAGE PLAN	
Project:	STANDARD DETAILS
Sheet Name:	CITY OF LEE'S SUMMIT, JACKSON COUNTY, MO
	LEE'S SUMMIT

SN-2

SIGN POST DETAILS (SN-2)	
DRAWN BY:	REVISION DATE
NCA	01/21/2022
CHECKED BY:	City Comments dated 02/14/2022
JLL	05/17/2022
DATE PREPARED	Revised Details to current 2023 Details
11/05/2021	
PROJ. NUMBER:	
21-130	

SCHLAGEL
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS
14920 West 107th Street Lenexa Kansas 66215
(913) 482-5158 • Fax: (913) 482-3400
WWW.SCHLAGEL.COM
MAILING ADDRESS: C/o Schlagel Associates, Inc.
#2020038005 F BLAC201000237 MS202003889-F

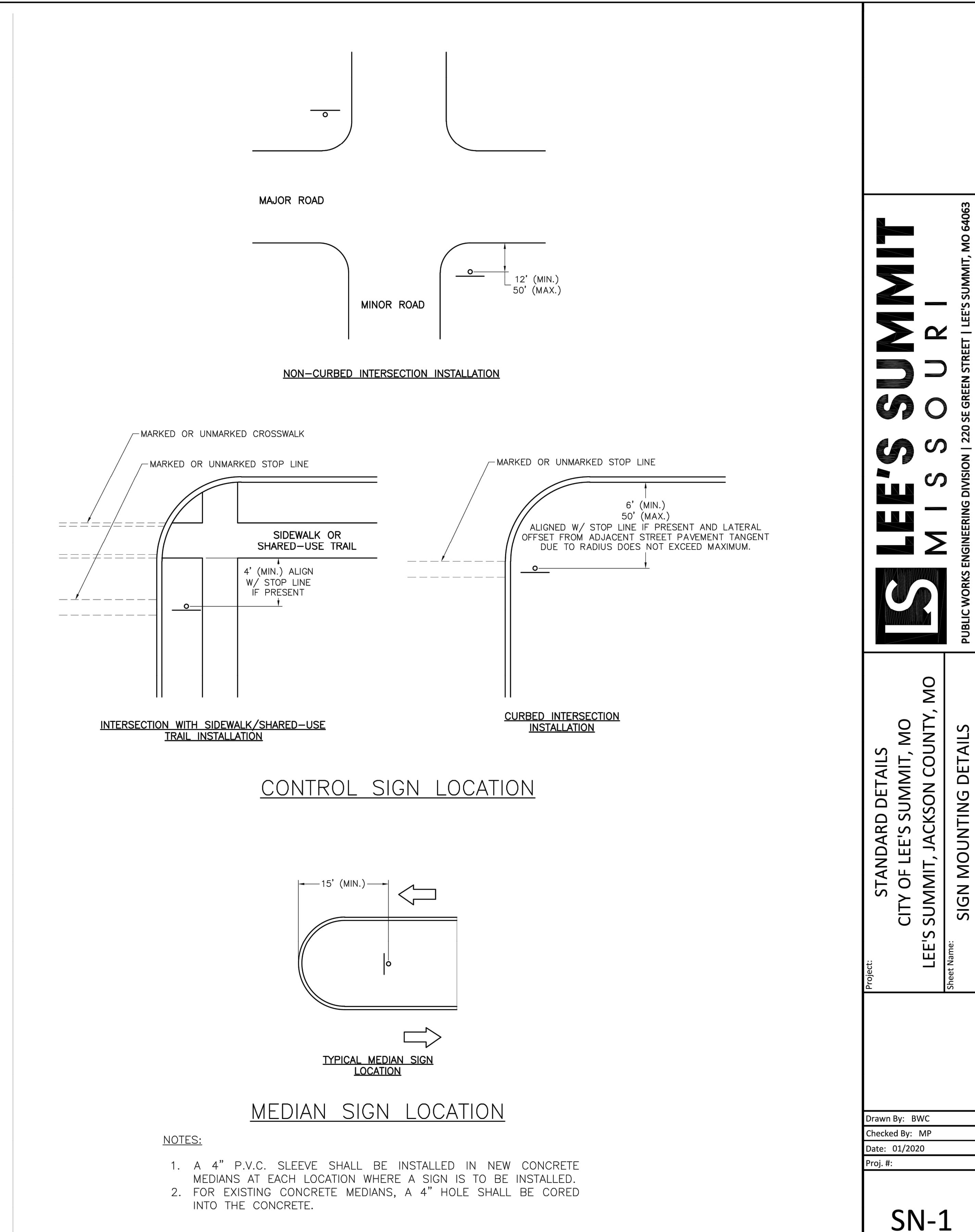
LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI



SIGN MOUNTING DETAILS

NOTES:

1. GENERALLY, THE SIGN MOUNTING HEIGHT SHOULD NOT BE MORE THAN 1' GREATER THAN THE MINIMUM MOUNTING HEIGHT.
 2. *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.



MEDIAN SIGN LOCATION

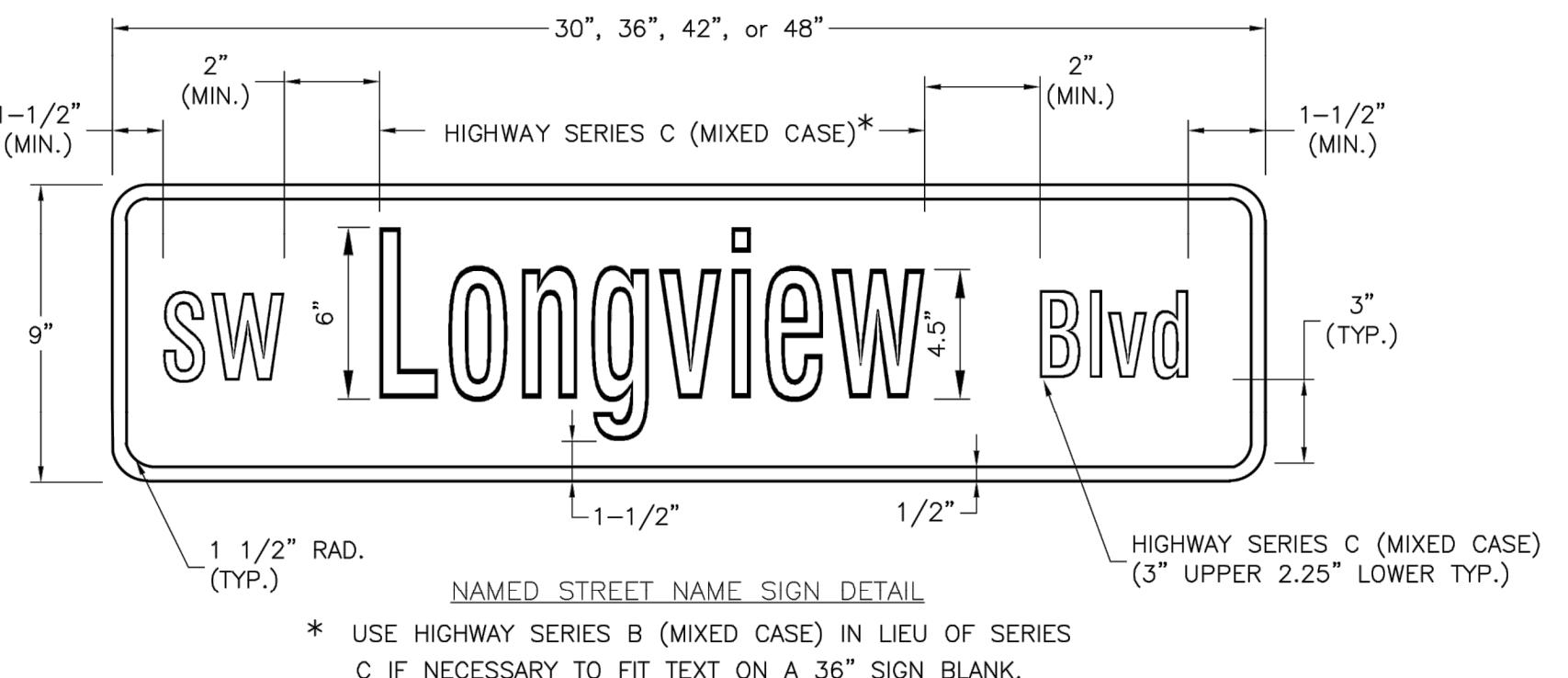
NOTES

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.

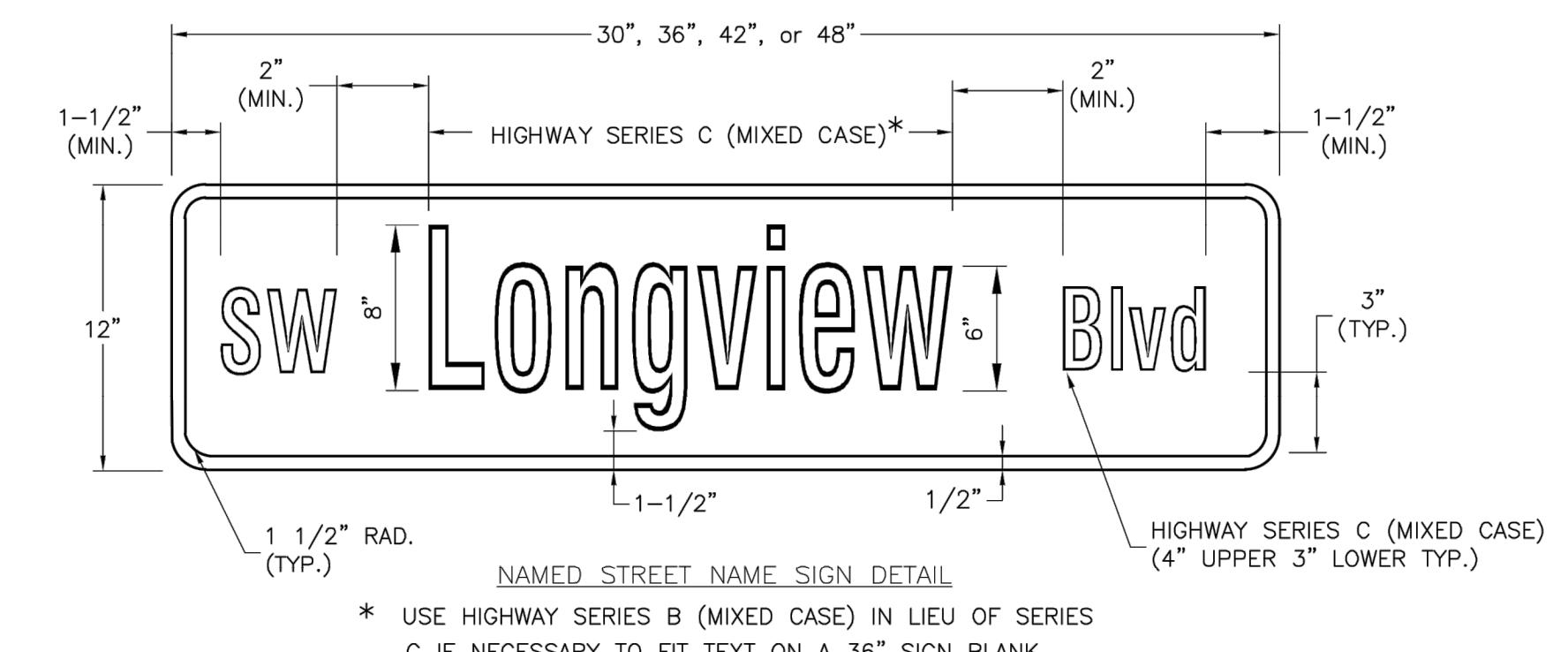
STANDARD ABBREVIATION LISTS

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



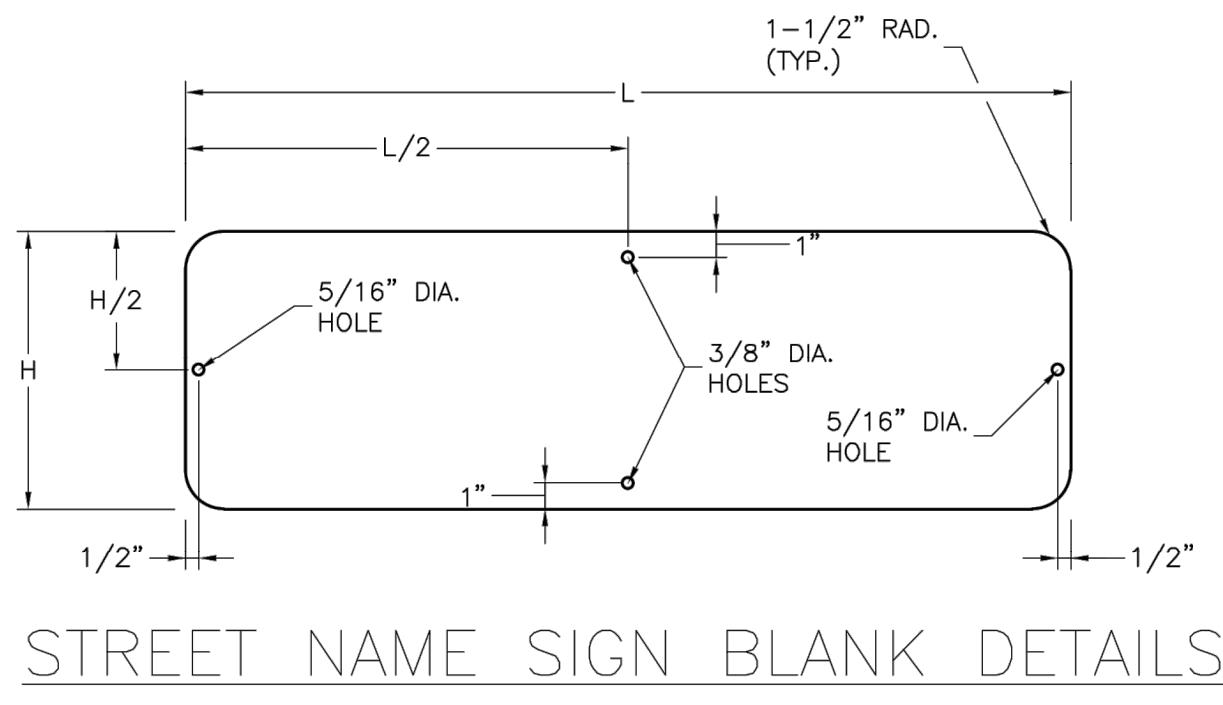
* USE HIGHWAY SERIES B (MIXED CASE) IN LIEU OF SERIES C IF NECESSARY TO FIT TEXT ON A 36" SIGN BLANK.



* USE HIGHWAY SERIES B (MIXED CASE) IN LIEU OF SERIES C IF NECESSARY TO FIT TEXT ON A 36" SIGN BLANK.

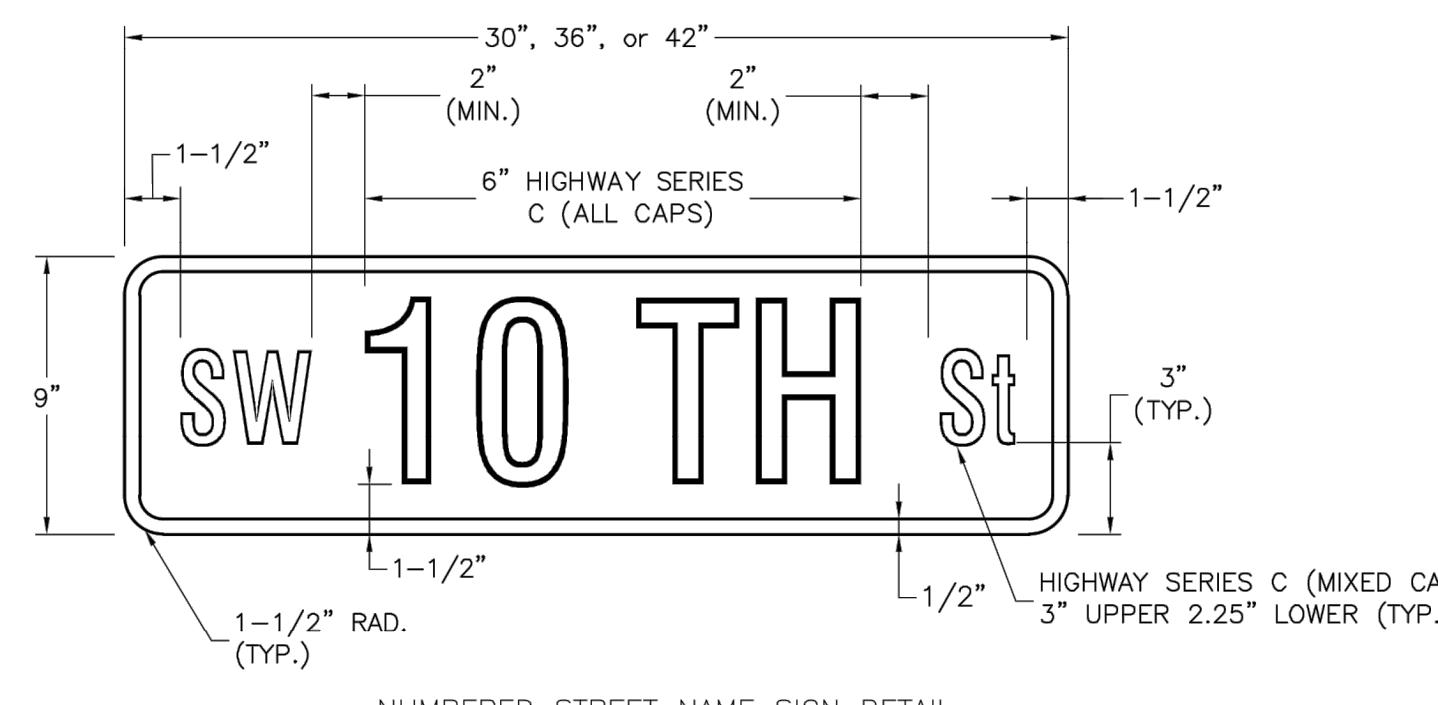
STREET NAME SIGN FACE DETAILS

POST MOUNTED 2-LANE ALL SPEEDS AND MULTI-LANE UNDER 40 MPH

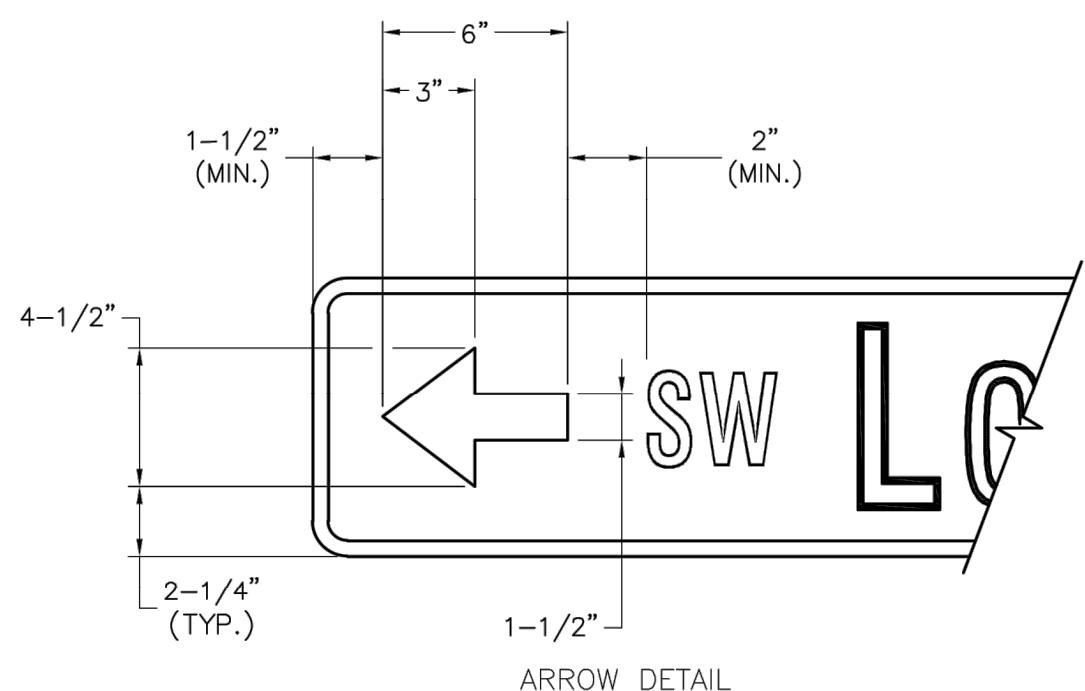


STREET NAME SIGN BLANK DETAILS

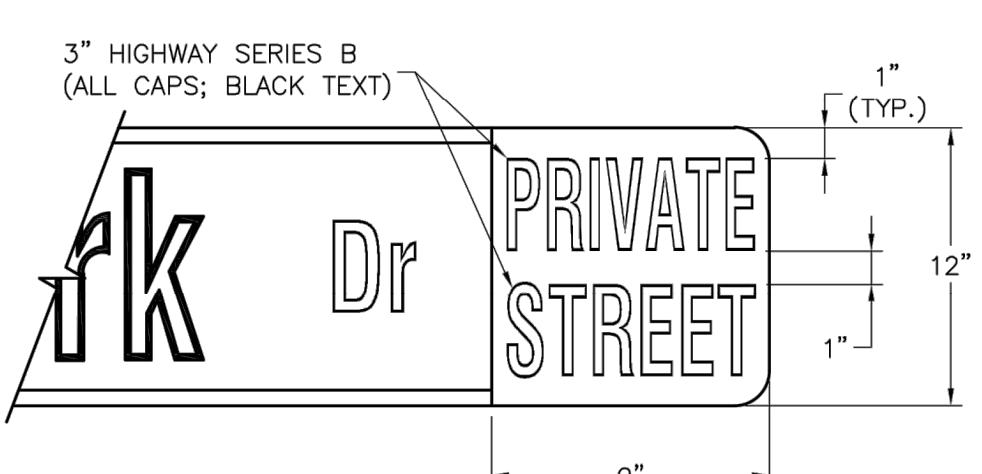
FOR MOUNTING ON SQUARE STEEL POSTS



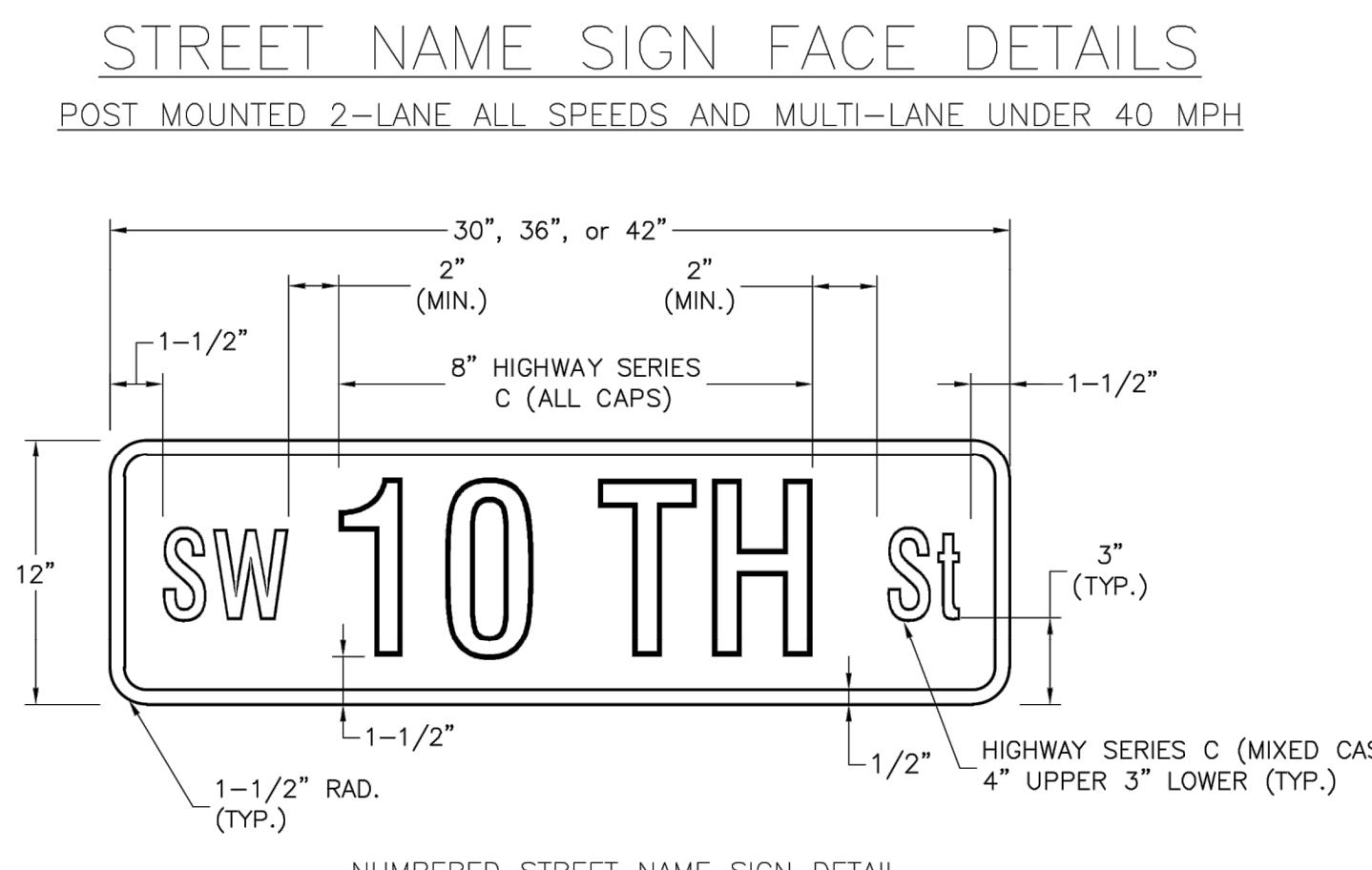
NUMBERED STREET NAME SIGN DETAIL



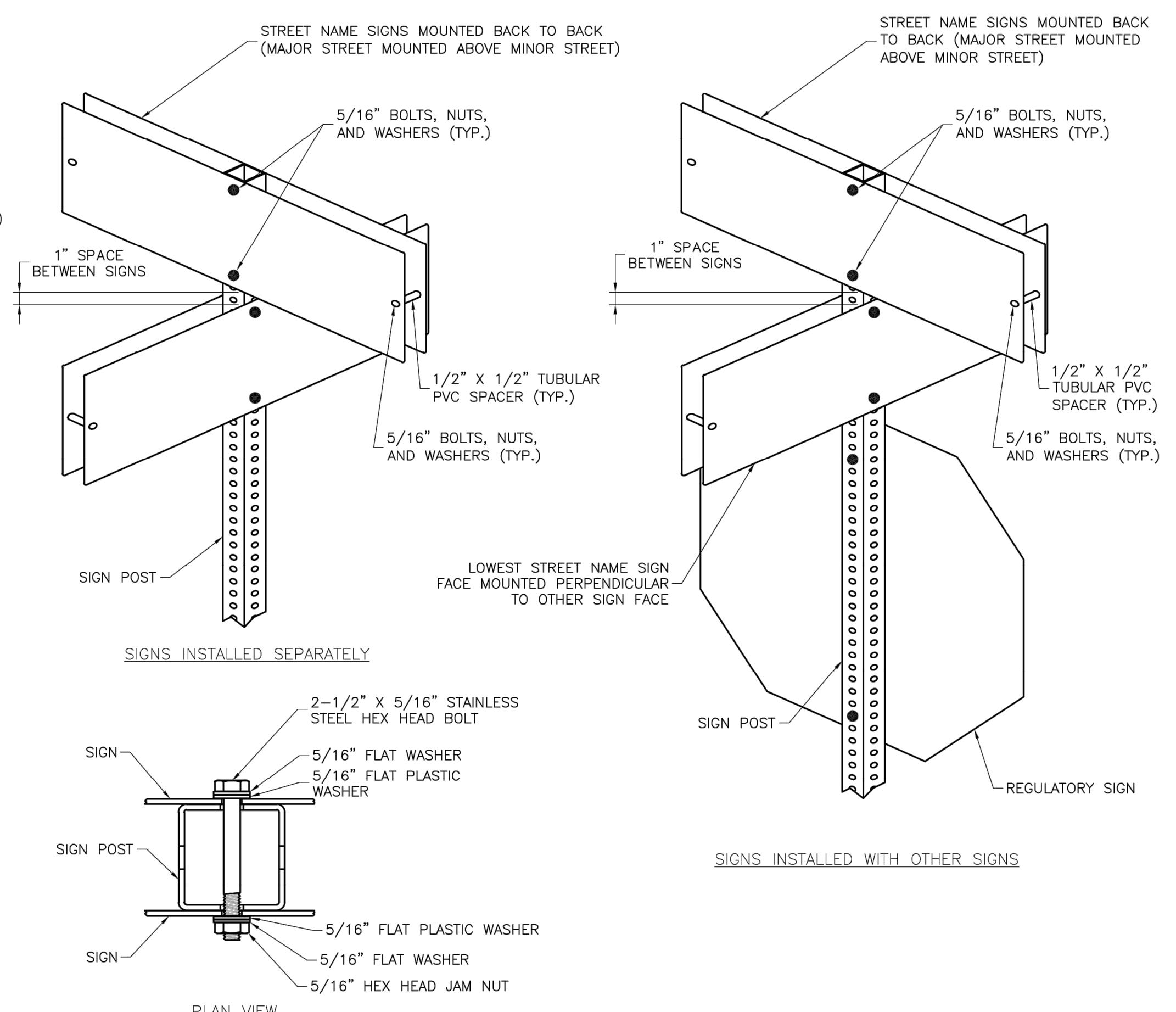
ARROW DETAIL



PRIVATE STREET TAG DETAIL

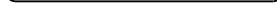
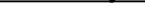


NUMBERED STREET NAME SIGN DETAIL



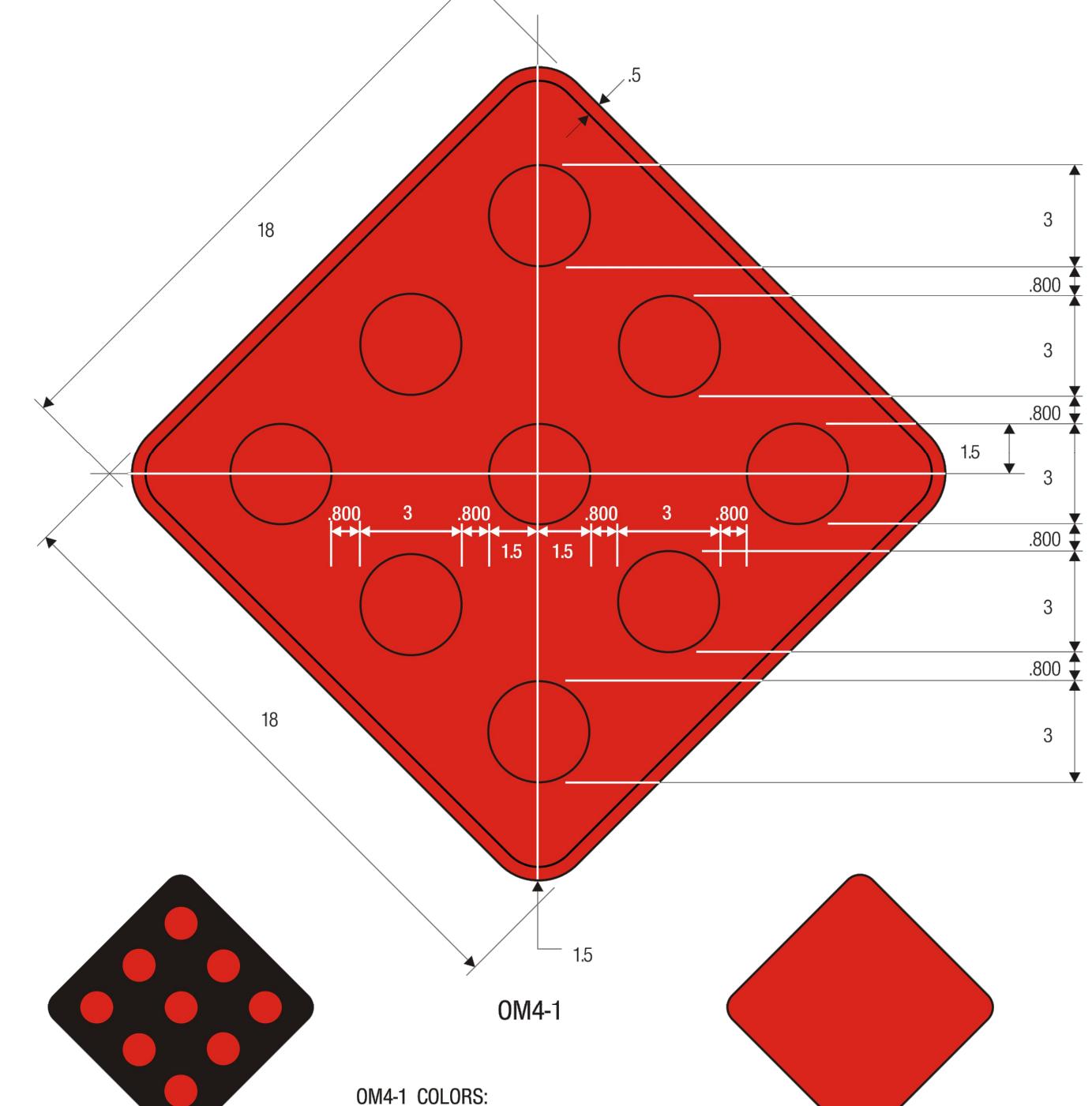
SQUARE STEEL POST MOUNTING DETAILS

STREET NAME SIGN INVENTORY

	SE Bailey Farms Pkwy	D3-1 (SP-1)		SE Ranchland St	D3-1 (SP-3)
	SE Falling Star Dr	D3-1 (SP-2)		SE Ranson Rd	D3-1 (SP-5)
	SE Sweet Root Dr	D3-1 (SP-2)		SE Bailey Rd	D3-1 (SP-5)
	SE Rising Sun Dr	D3-1 (SP-2)		SE Cape Dr	D3-1 (SP-6)

Project:	STANDARD DETAILS	
	CITY OF LEE'S SUMMIT, MO	
	LEE'S SUMMIT, JACKSON COUNTY, MO	
Sheet Name:	STREET NAME SIGN DETAILS	
Drawn By:	BWC	
Checked By:	MP	
Date:	01/2020	
Proj. #:		
SN-3		

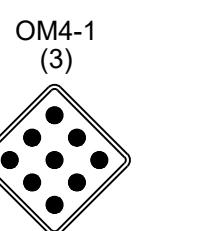
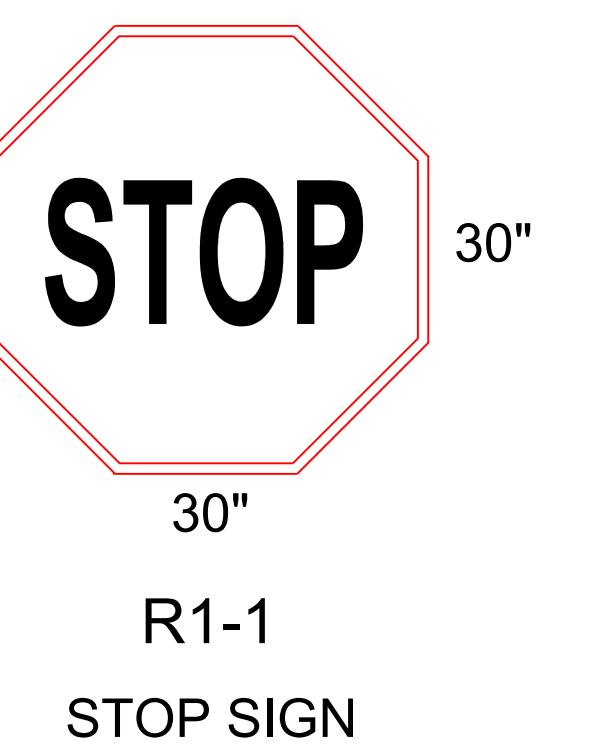




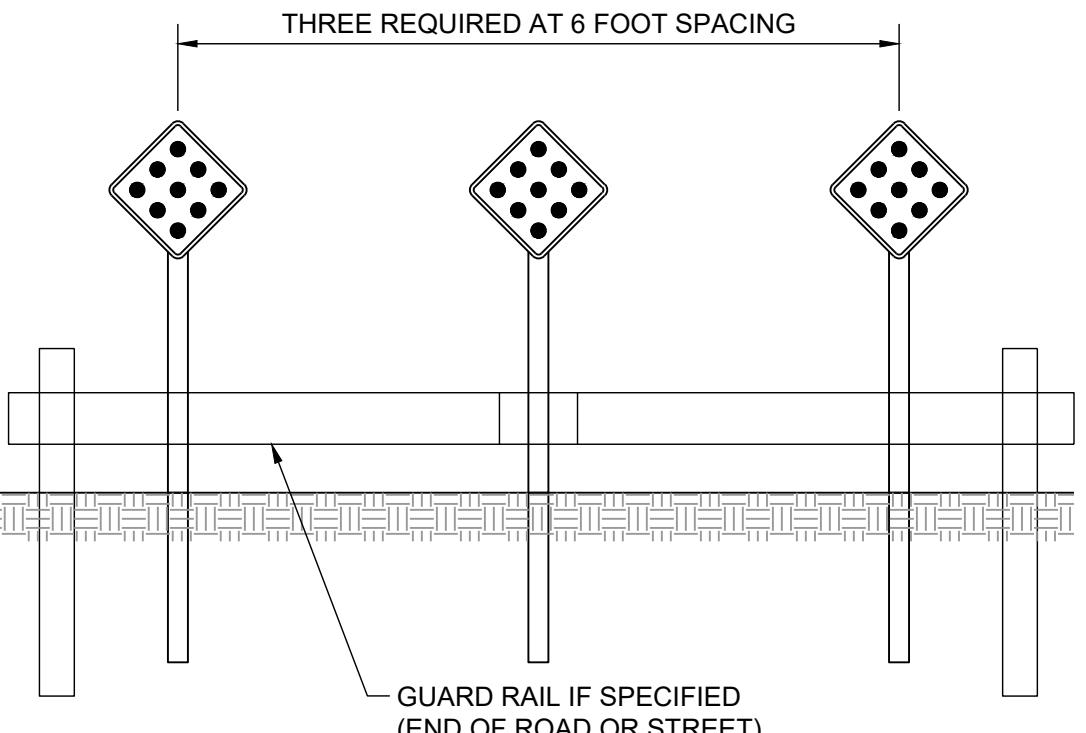
OM4-2
OM4-2 COLORS:
REFLECTORS — RED (RETROREFLECTIVE)
BACKGROUND — BLACK

OM4-3
OM4-3 COLORS:
SIGN PANEL — RED (RETROREFLECTIVE)

11-4



NOTE:
THICKNESS OF FLAT SHEET FOR END OF ROAD
MARKERS SHALL BE 0.0063". RED REFLECTORS
ON RED BACKGROUND.



SCHLAGEL	PREPARED BY:
	JAMES L. LONG 10/27/2023 PE-20104495
ENGINEERS PLANNERS SURVEYORS LANDSCAPE ARCHITECTS	14920 West 107th Street Lenexa Kansas 66215 (913) 492-5158 • Fax: (913) 492-3400 WWW.SCHLAGELASSOCIATES.COM MAILING ADDRESS: C/O SCHLAGEL ASSOCIATES, INC., SUITE 100, 14920 WEST 107TH STREET, LENEXA, KS 66215 #E2020038005 F BLAC201000237 SU202009859-F
SCHLAGEL & ASSOCIATES, P.A.	STATE OF MISSOURI JAMES L. LONG 10/27/2023 PE-20104495

MANOR AT BAILEY FARMS, FIRST PLAT
STREET, STORMWATER AND MASTER
DRAINAGE PLAN
SE BAILEY ROAD AND SE RANSON ROAD
LEE'S SUMMIT, MISSOURI