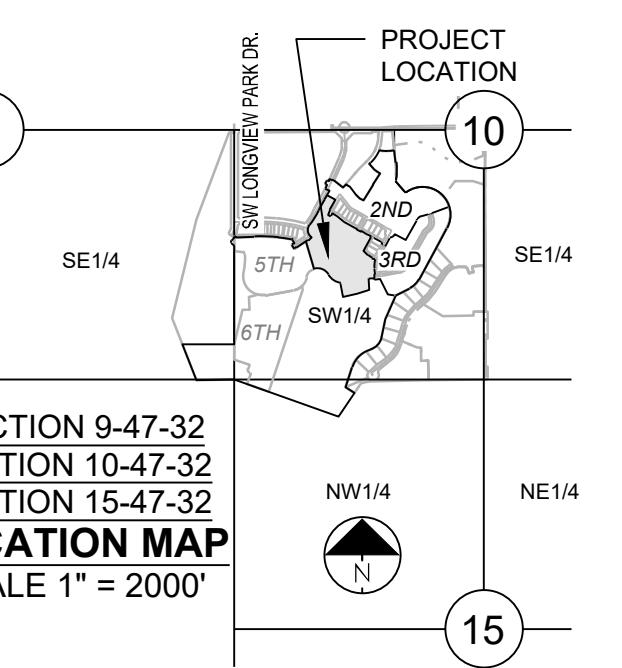




**PERGOLA PARK 4TH PLAT
STREET, STORMWATER, MASTER DRAINAGE
PLAN AND EROSION AND SEDIMENT**

- LEE'S SUMMIT, MISSOURI



**MISSOURI GEOGRAPHIC REFERENCE SYSTEM
BENCH MARK:**

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

ELEV. 935.18

PROJECT BENCHMARK:

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

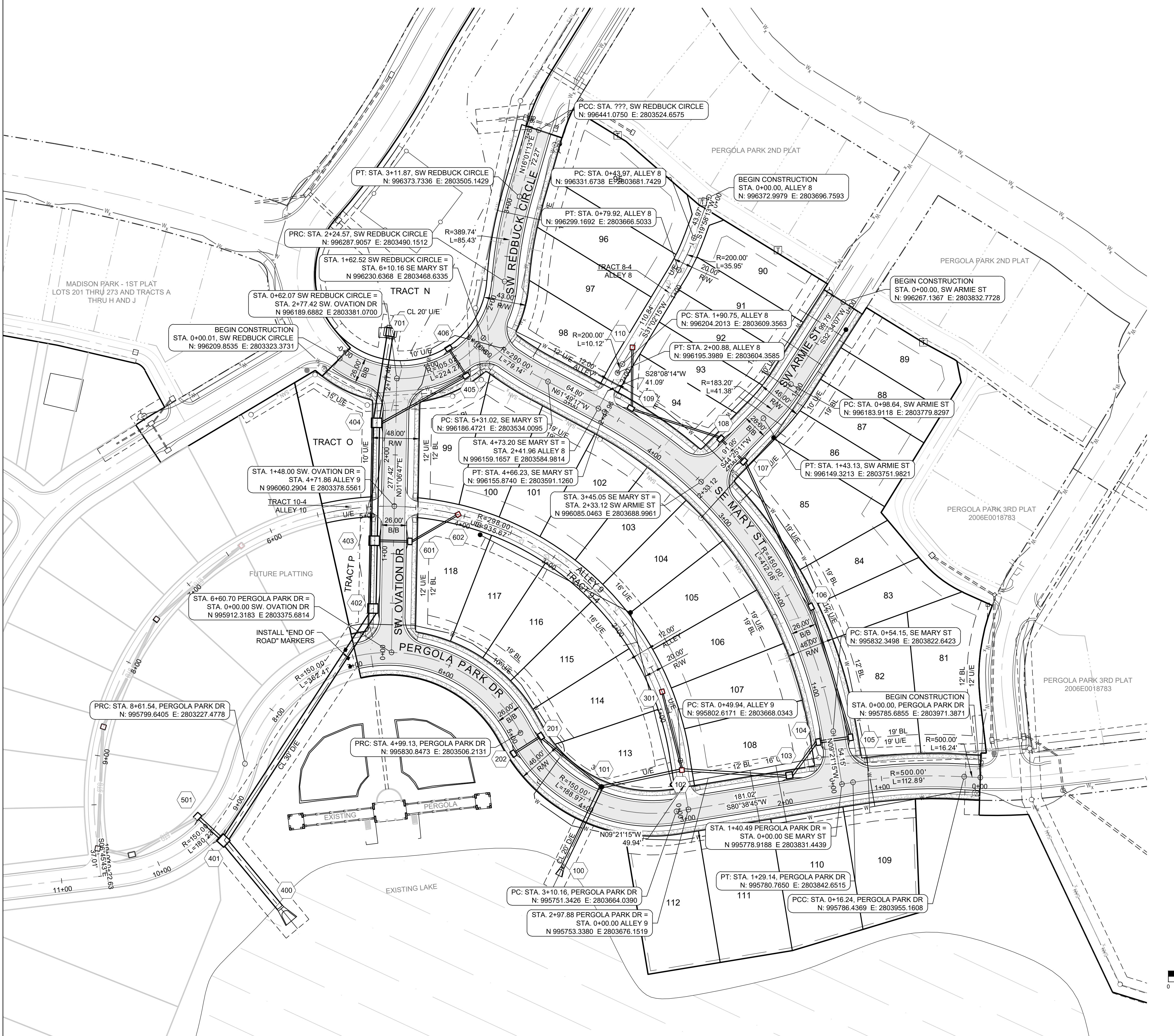
NORTHING: 998893.4148
EASTING: 2803318.5413
ELEV. 1004.09

**GENERAL
LAYOUT**

SHEET

2

OF 22





**PERGOLA PARK 4TH PLAT
STREET, STORMWATER, MASTER DRAINAGE
PLAN AND EROSION AND SEDIMENT**

- LEE'S SUMMIT, MISSOURI



NOTE:

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

- — — DENOTES LIMITS OF DISTURBANCE
- — — DENOTES PROPOSED MAJOR CONTOUR
- — — DENOTES PROPOSED MINOR CONTOUR
- — — DENOTES EXISTING MAJOR CONTOUR
- — — DENOTES EXISTING MINOR CONTOUR

**MISSOURI GEOGRAPHIC REFERENCE SYSTEM
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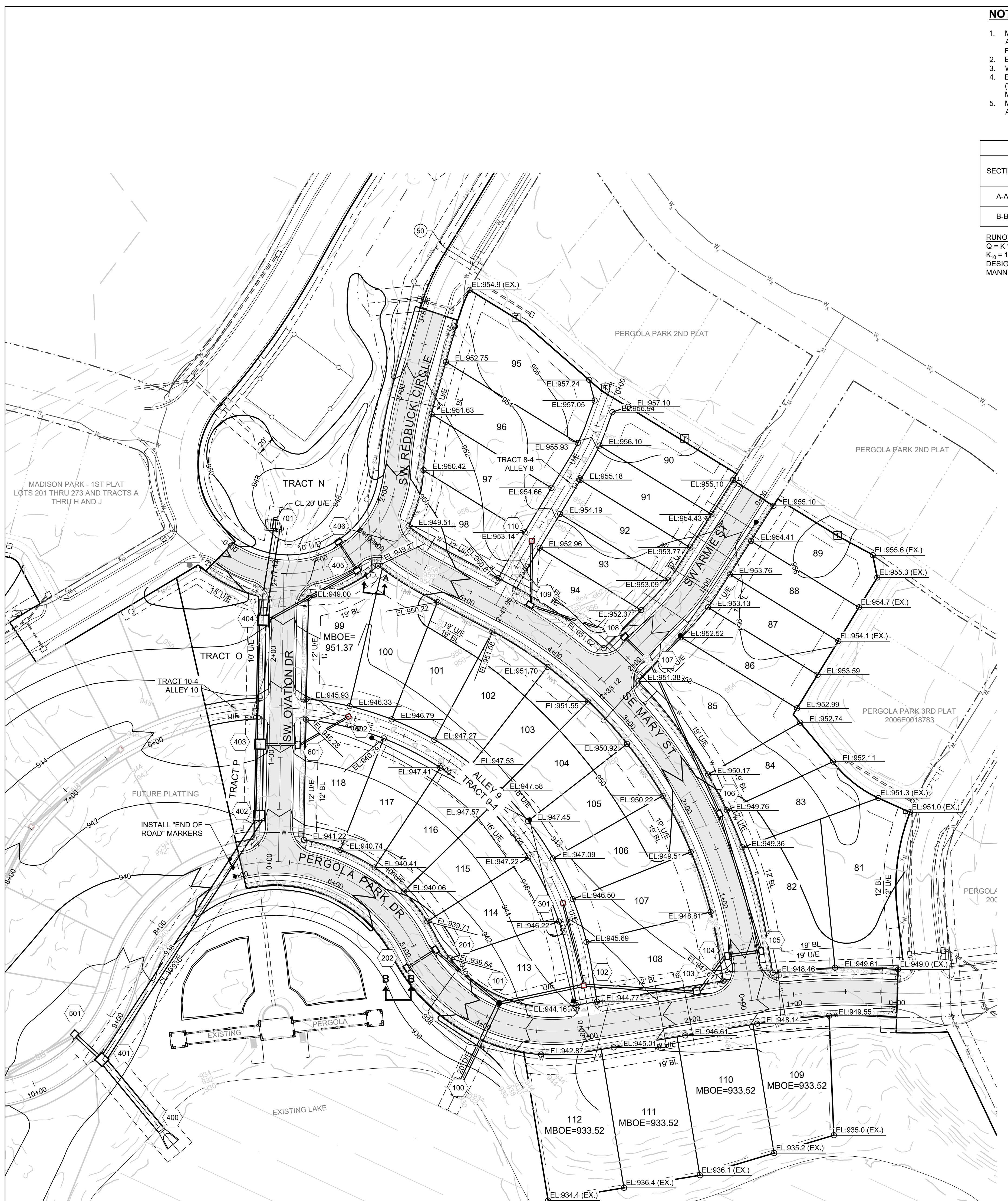
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EASTING: 2803318.5413
ELEV. 1004.09

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OF 22

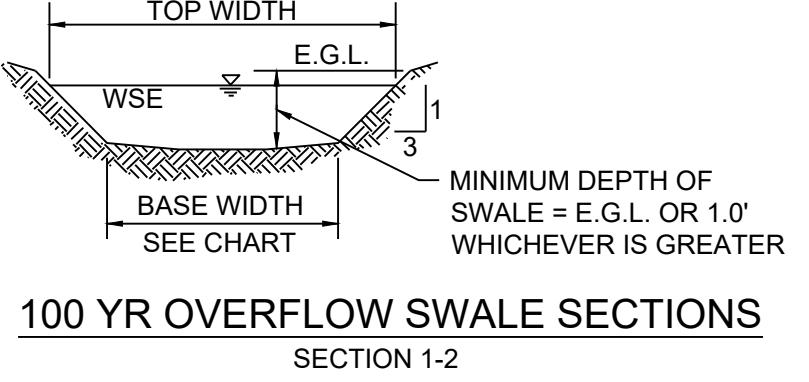
MASTER DRAINAGE PLAN - GRADING PLAN	
DRAWN BY: BAL	REVISION DATE: BAL

CHECKED BY: BAL	MAB
DATE PREPARED: 4-15-19	PROJ. NUMBER: 19-002



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



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.)
A-A	2.16	18.39	-	18.3900	2.13	5	3:1	8.68	0.61	4.39	0.30
B-B	6.93	59.00	-	59.0000	7.25	10	3:1	13.55	5.91	8.48	1.12

RUNOFF CALCULATIONS:
 $Q = K * C * I * A$
 $K_{10} = 1.0 \quad K_{100} = 1.25 \quad C = 0.51 \quad I = \text{INTENSITY}$
 DESIGN OVERFLOW = $Q_{\text{OVERFLOW}} = Q_{100} - Q_{10}$
 MANNINGS 'n' = .030 FOR SWALES

LOT TYPE TABLE		
LOT #	BASEMENT TYPE	MBOE
81	STANDARD	N/A
82	STANDARD	N/A
83	STANDARD	N/A
84	STANDARD	N/A
85	STANDARD	N/A
86	STANDARD	N/A
87	STANDARD	N/A
88	STANDARD	N/A
89	STANDARD	N/A
90	STANDARD	N/A
91	STANDARD	N/A
92	STANDARD	N/A
93	STANDARD	N/A
94	STANDARD	N/A
95	STANDARD	N/A
96	STANDARD	N/A
97	STANDARD	N/A
98	STANDARD	N/A
99	STANDARD	951.37
100	STANDARD	N/A
101	STANDARD	N/A
102	STANDARD	N/A
103	STANDARD	N/A
104	STANDARD	N/A
105	STANDARD	N/A
106	STANDARD	N/A
107	STANDARD	N/A
108	STANDARD	N/A
109	WALKOUT	933.52
110	WALKOUT	933.52
111	WALKOUT	933.52
112	DAYLIGHT	933.52
113	STANDARD	N/A
114	STANDARD	N/A
115	STANDARD	N/A
116	STANDARD	N/A
117	STANDARD	N/A
118	STANDARD	N/A

- 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
DENOTES RETAINING WALL

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ELEV. 935.18

PROJECT BENCHMARK:

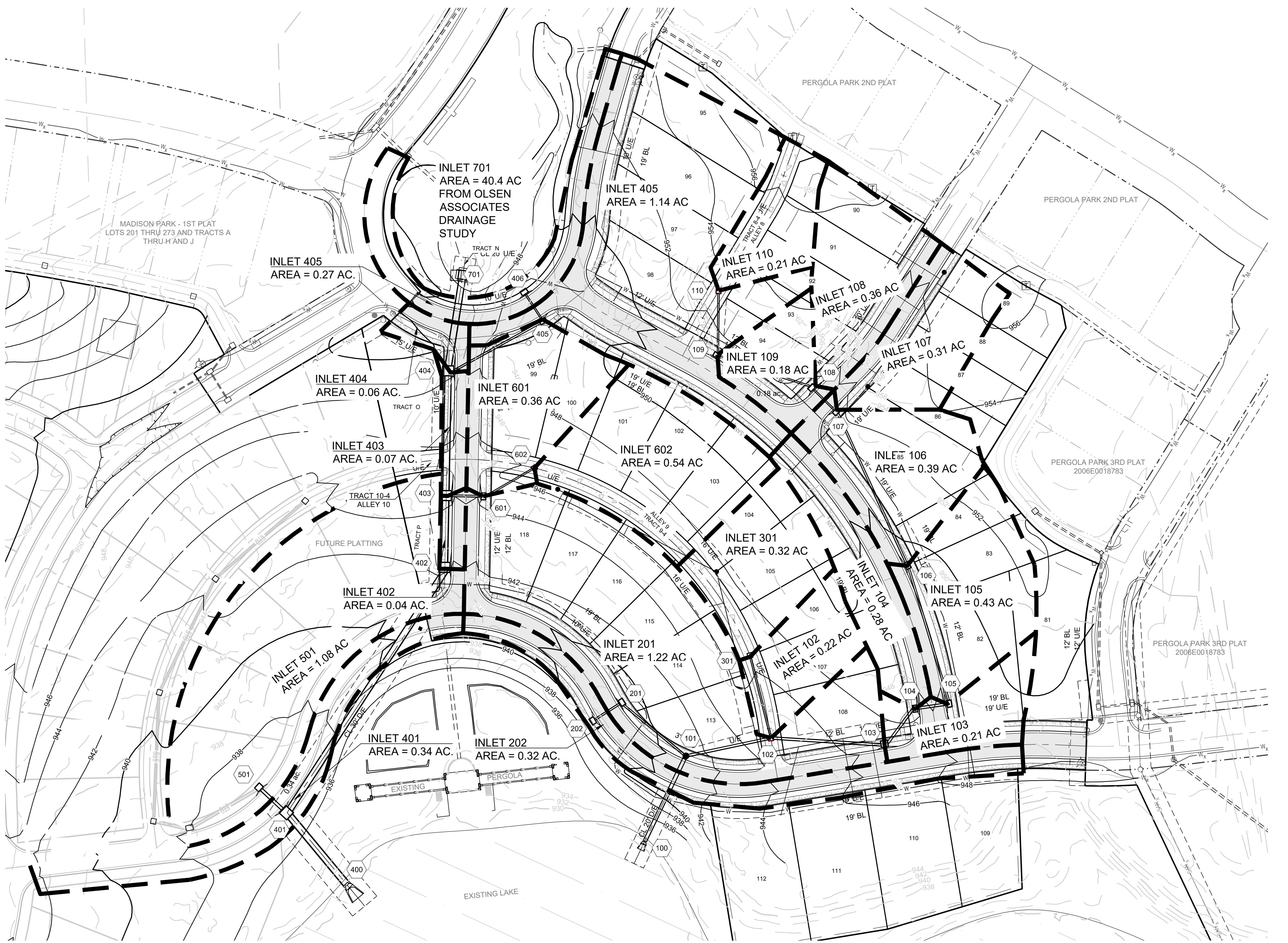
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NORTHING: 998893.4148
EASTING: 2803318.5413
ELEV. 1004.09

PERCOLA PARK 4TH PLAT STREET, STORMWATER, MASTER DRAINAGE PLAN AND EROSION AND SEDIMENT - LEE'S SUMMIT, MISSOURI



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14920 West 107th Street • Lenexa, Kansas 66215
(913) 492-5150 • Fax: (913) 492-8400
WWW.SCHLAGERASSOCIATES.COM
Missouri State Certificates of Authority
#E20203000F #LACC201000237 #S202009859-F



**PERGOLA PARK 4TH PLAT
STREET, STORMWATER, MASTER DRAINAGE
PLAN AND EROSION AND SEDIMENT**

- LEE'S SUMMIT, MISSOURI

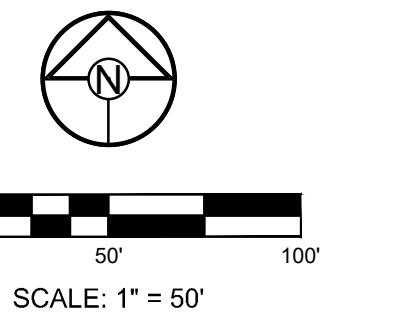


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5
OF 22

MASTER
DRAINAGE PLAN
- DRAINAGE MAP

SHEET



19-002

4-15-19

PROJ. NUMBER:

DATE PREPARED:

DATE CHECKED:

BAL:

REV. DATE:

DESCRIPTION:

CHECKED BY:

MAK:

DRAWN BY:

19-002

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GUTTER SPREAD AND INLET CAPACITY CALCULATIONS - PERGOLA PARK 4TH PLAT																											
DESIGN STORM		10		CURB TYPE "A" = LAZY BACK CURB TYPE "B" = HIGH BACK																							
"K" FACTOR		1.00																									
RUNOFF CALCULATIONS												INLET DESIGN												GUTTER DESIGN			
INLET #	COMPOSITE "C"	AREA	Tc	INLET INTENSITY	RUNOFF	UPSTREAM INLET	UPSTREAM INLET	UPSTREAM INLET	UPSTREAM INLET	BYPASS FROM UPSTREAM	TOTAL RUNOFF	STREET GRADE	CROSS SLOPE	CURB TYPE	INLET LENGTH	EFFECTIVE LENGTH	INLET 80% CAP	BYPASS TO DOWNSTREAM INLET	STREET GRADE	CROSS SLOPE	DEPTH AT CURB	SPREAD OF FLOW					
LINE 1																											
102	0.66	0.22	5	7.35	1.07	301				0.22	1.29	1.56	2.08	A	4	3.2	1.11	0.18	1.56	2.08	0.14	7.27					
103	0.66	0.21	5	7.35	1.02	104				0.09	1.10	2.18	2.08	A	6	4.8	0.98	0.12	2.18	2.08	0.12	6.50					
104	0.66	0.28	5	7.35	1.36					0.00	1.36	1.10	2.08	A	6	4.8	1.27	0.09	1.10	2.08	0.15	7.87					
105	0.66	0.43	5	7.35	2.09	106				0.22	2.30	1.10	2.08	A	6	4.8	1.98	0.33	1.10	2.08	0.19	9.49					
106	0.66	0.39	5	7.35	1.89	107				0.19	2.08	1.10	2.08	A	6	4.8	1.86	0.22	1.10	2.08	0.18	9.15					
107	0.66	0.31	5	7.35	1.50					0.00	1.50	1.71	2.08	A	6	4.8	1.31	0.19	1.71	2.08	0.15	7.55					
108	0.66	0.36	5	7.35	1.75					0.00	1.75	1.71	2.08	A	6	4.8	1.49	0.26	1.71	2.08	0.16	7.96					
109	0.66	0.18	5	7.35	0.87	108				0.26	1.13	4.00	2.08	A	6	4.8	0.97	0.16	4.00	2.08	0.11	5.90					
110	0.66	0.21	5	7.35	1.02					0.00	1.02	4.00	2.08	A	4	3.2	0.81	0.20	4.00	2.08	0.11	5.69					
LINE 2																											
201	0.66	1.22	5	7.35	5.92	102	103	601		0.84	6.76	SUMP	2.08	A	6	4.8	16.80	0.00	SUMP	2.08	< 0.21	< 10.50					
202	0.66	0.32	5	7.35	1.55					0.00	1.55	SUMP	2.08	A	6	4.8	16.80	0.00	SUMP	2.08	< 0.21	< 10.50					
LINE 3																											
301	0.66	0.32	5	7.35	1.55					0.00	1.55	1.56	2.08	A	4	3.2	1.33	0.22	1.56	2.08	0.15	7.76					
LINE 4																											
401	0.66	0.34	5	7.35	1.65					0.00	1.65	SUMP	2.08	A	8	6.4	17.92	0.00	SUMP	2.08	< 0.21	< 10.50					
402	0.66	0.04	5	7.35	0.19	403				0.01	0.20	3.24	2.08	A	9	7.2	0.20	0.00	3.24	2.08	0.06	3.44					
403	0.66	0.07	5	7.35	0.34	404				0.00	0.34	3.24	2.08	A	8	6.4	0.34	0.01	3.24	2.08	0.07	4.10					
404	0.66	0.06	5	7.35	0.29					0.00	0.29	3.24	2.08	A	8	6.4	0.29	0.00	3.24	2.08	0.07	3.88					
405	0.66	1.14	5	7.35	5.53					0.00	5.53	SUMP	2.08	A	6	4.8	13.44	0.00	SUMP	2.08	< 0.21	< 10.50					
406	0.66	0.27	5	7.35	1.31					0.00	1.31	SUMP	2.08	A	6	4.8	13.44	0.00	SUMP	2.08	< 0.21	< 10.50					
LINE 5																											
501	0.66	1.08	5	7.35	5.24	402	502			0.18	5.42	SUMP	2.08	A	6	4.8	13.44	0.00	SUMP	2.08	< 0.21	< 10.50					
502	0.66	0.10	5	7.35	0.49	503				0.87	1.36	2.12	2.08	A	6	4.8	1.18	0.18	2.12	2.08	0.14	7.01					
503	0.66	0.49	5	7.35	2.38	504				0.73	3.11	1.49	2.08	A	4	3.2	2.24	0.87	1.49	2.08	0.20	10.00					
504	0.66	0.45	5	7.35	2.18	505				0.63	2.81	1.49	2.08	A	4	3.2	2.08	0.73	1.49	2.08	0.19	9.65					
505	0.66	0.46	5	7.35	2.23	506				0.35	2.58	1.49	2.08	A	4	3.2	1.95	0.63	1.49	2.08	0.18	9.36					
506	0.66	0.42	5	7.35	2.04					0.00	2.04	1.12	2.08	A	4	3.2	1.69	0.35	1.12	2.08	0.18	9.05					
LINE 6																											
601																											

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NOTES:

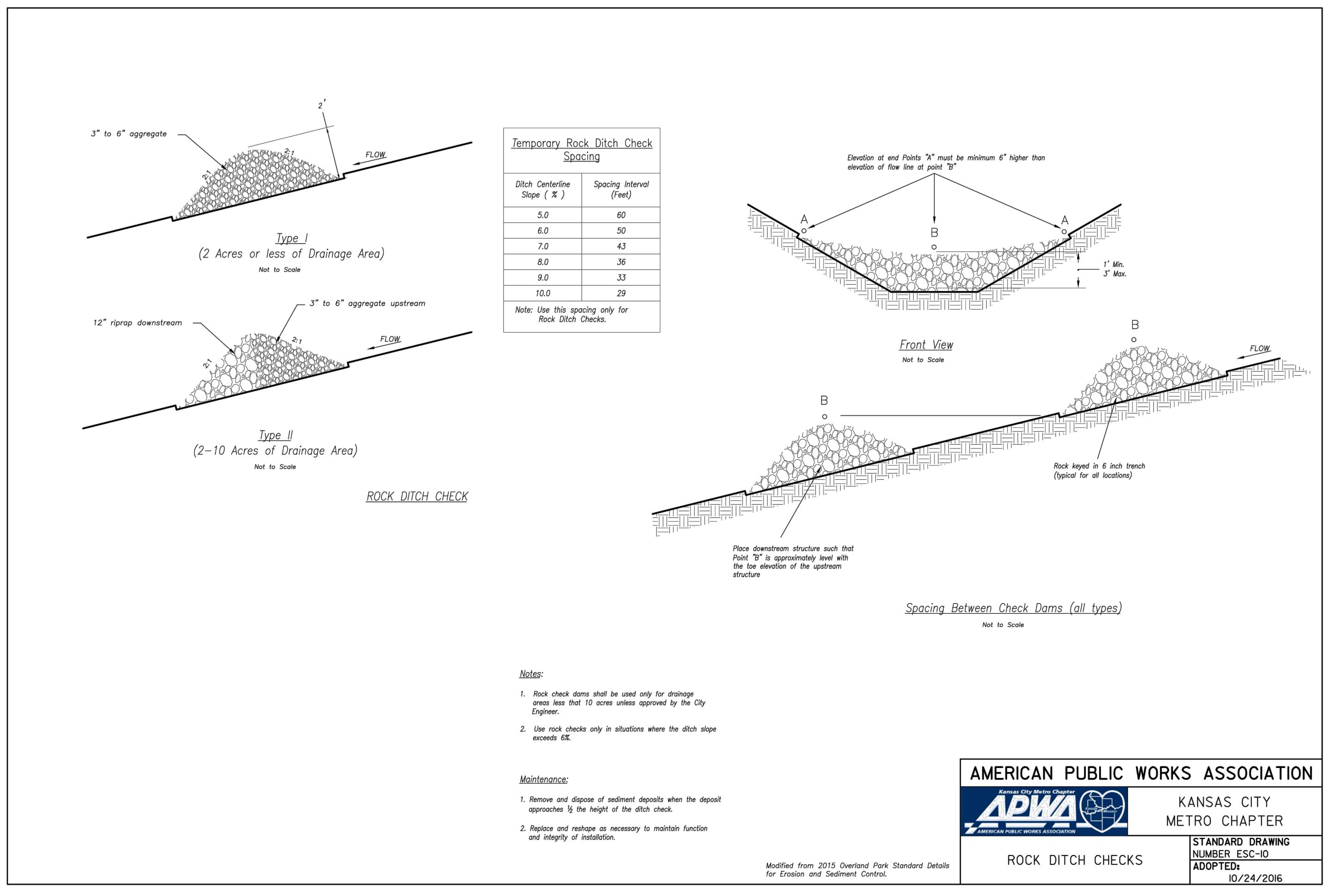
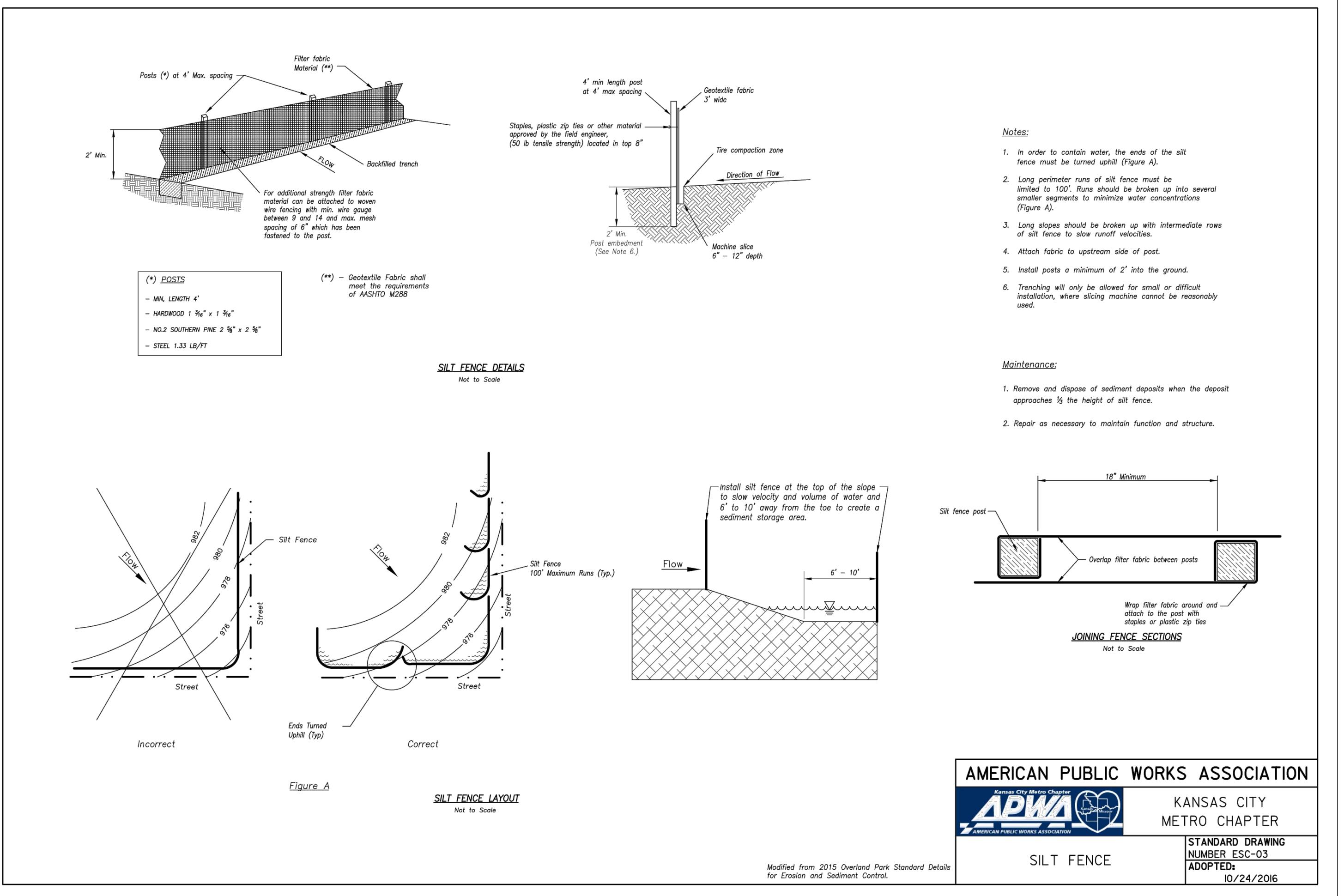
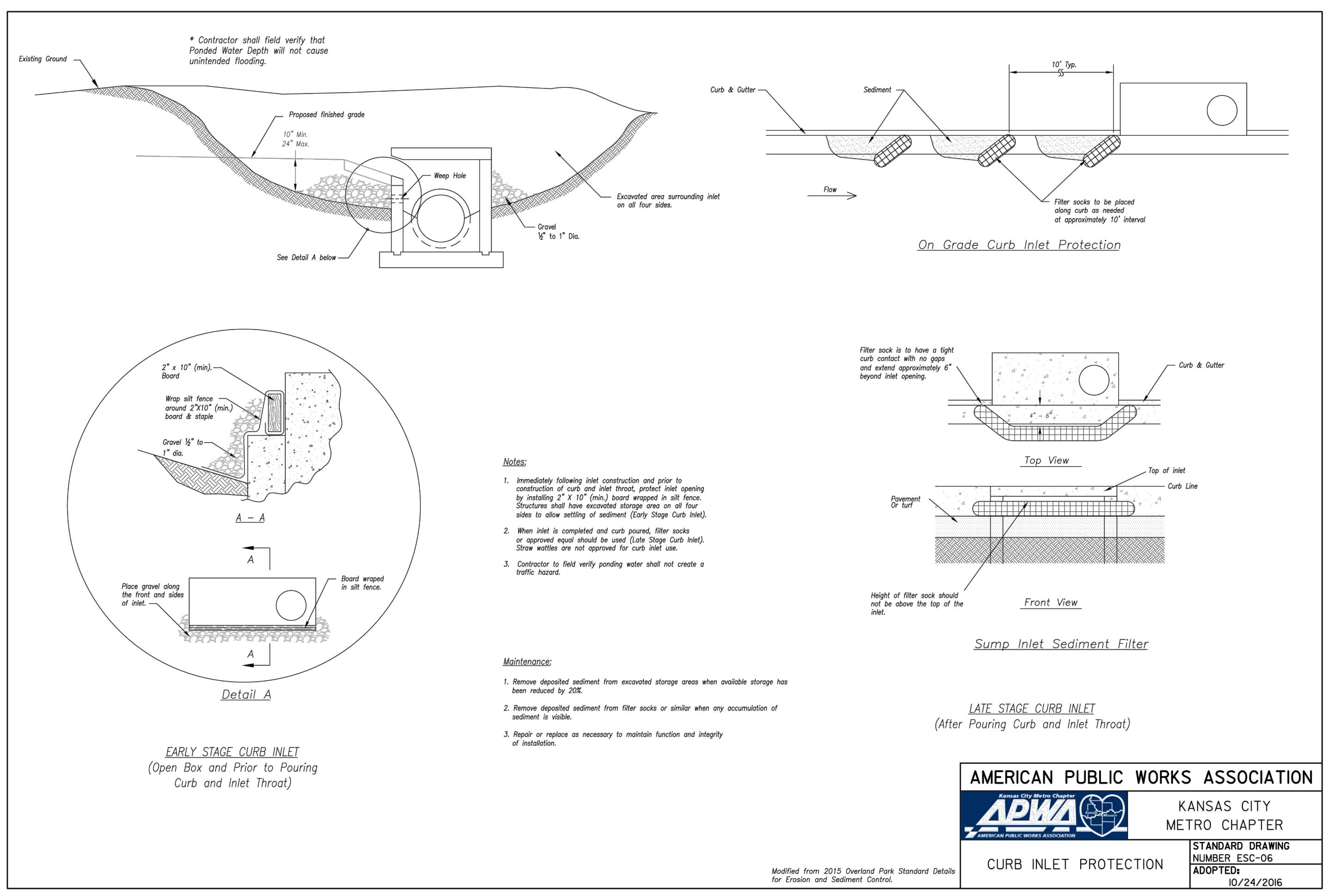
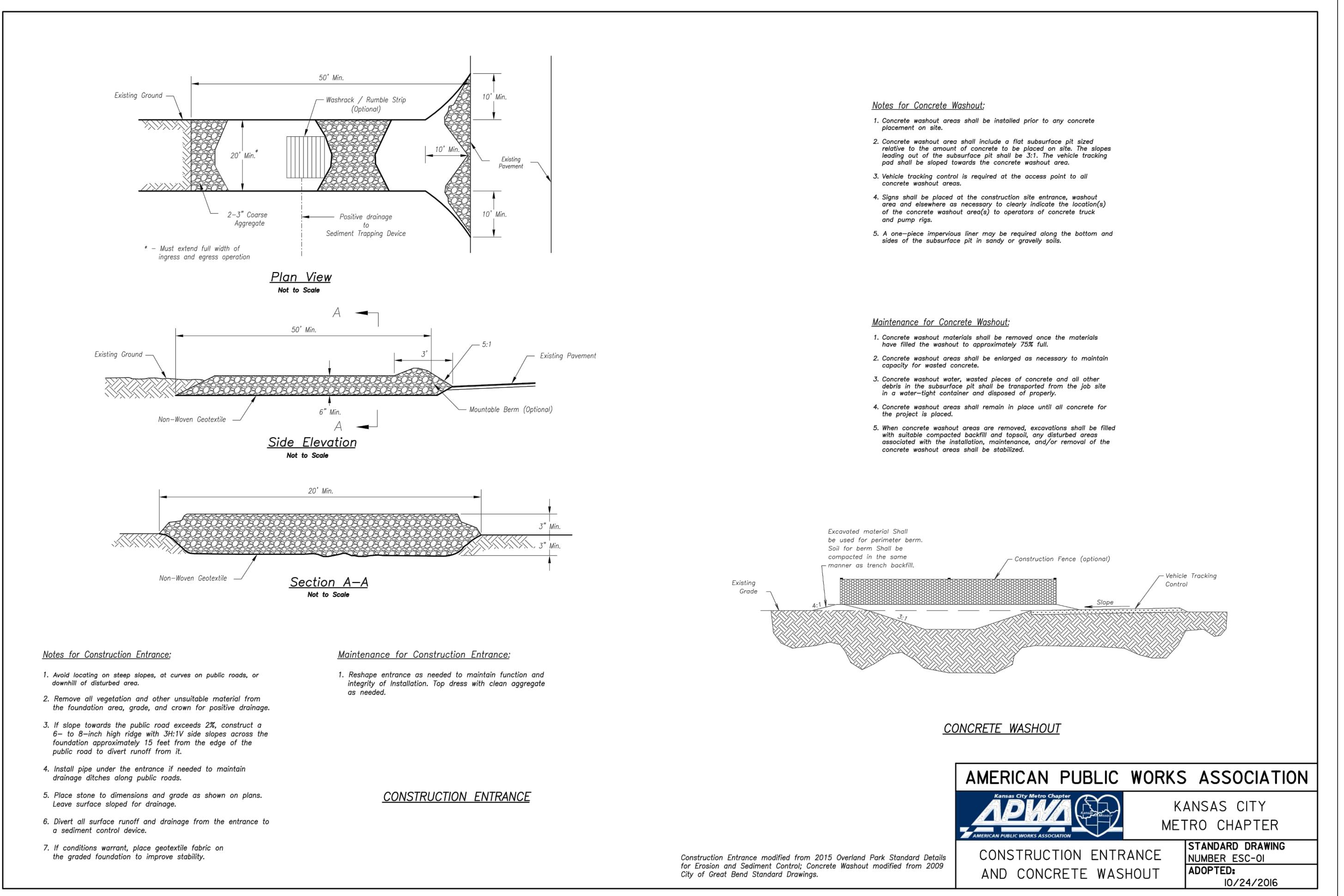
1. CAPACITY OF INLETS ON GRADE DETERMINED USING ROUTINE OUTLINED ON PGS 56-95 TO 56-97, SECTION 5600 APWA
2. CAPACITY OF SUMP INLETS CALCULATED USING FIGURE 5604-21, SECTION 5600 APWA
3. MANNINGS "n" VALUE FOR COMBINED ASPHALT PAVEMENT AND CONCRETE CURB - 0.014

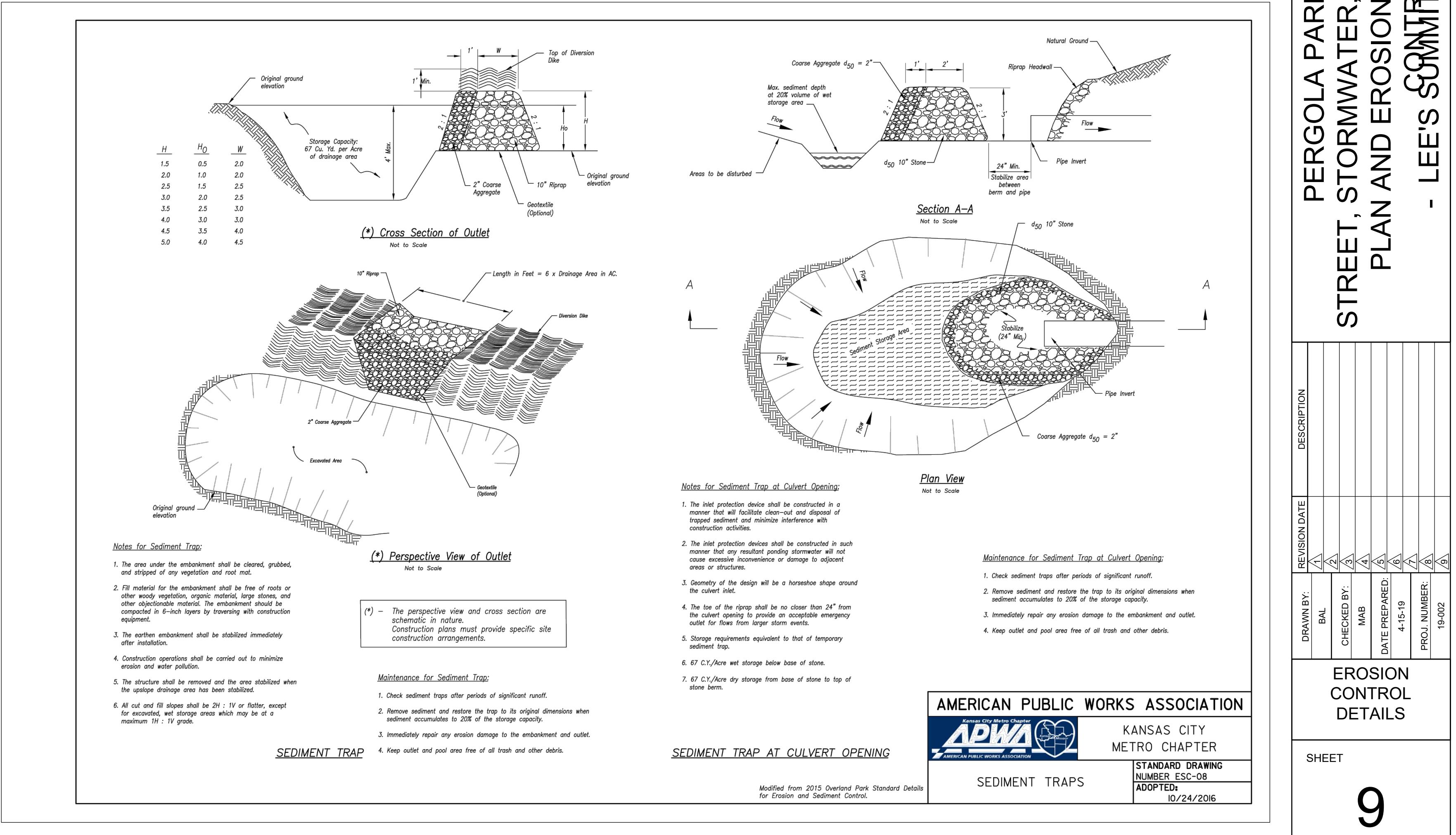
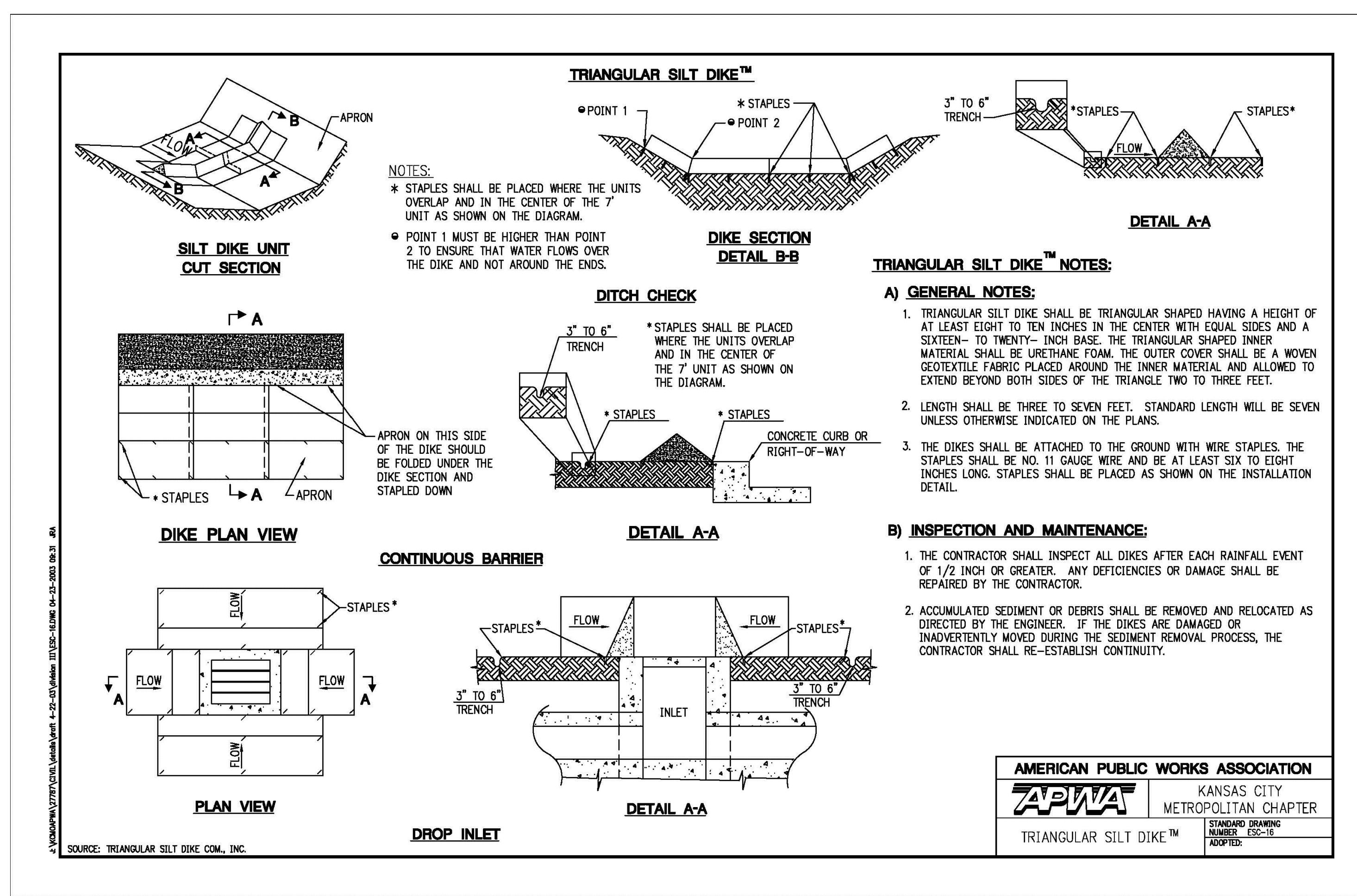
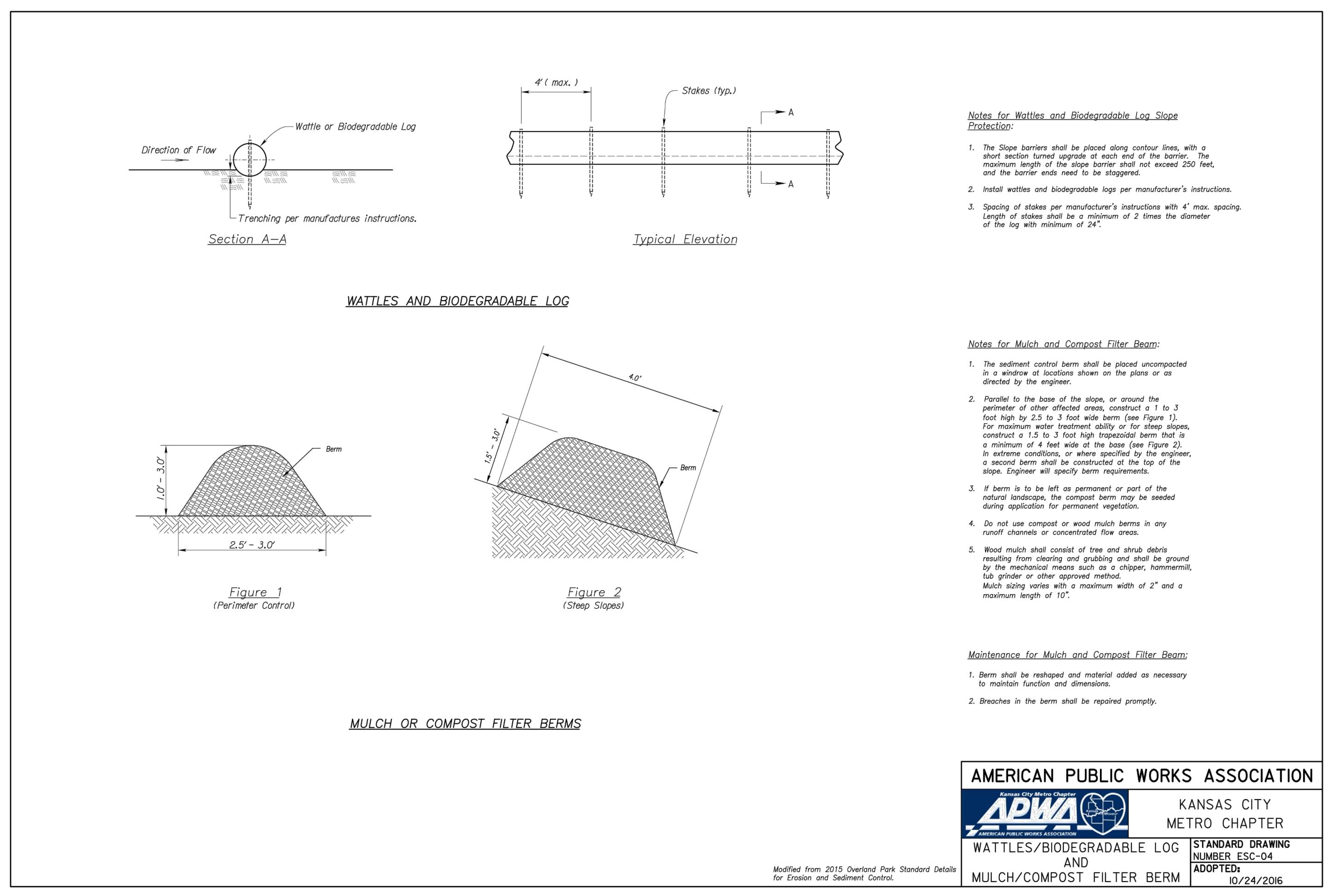
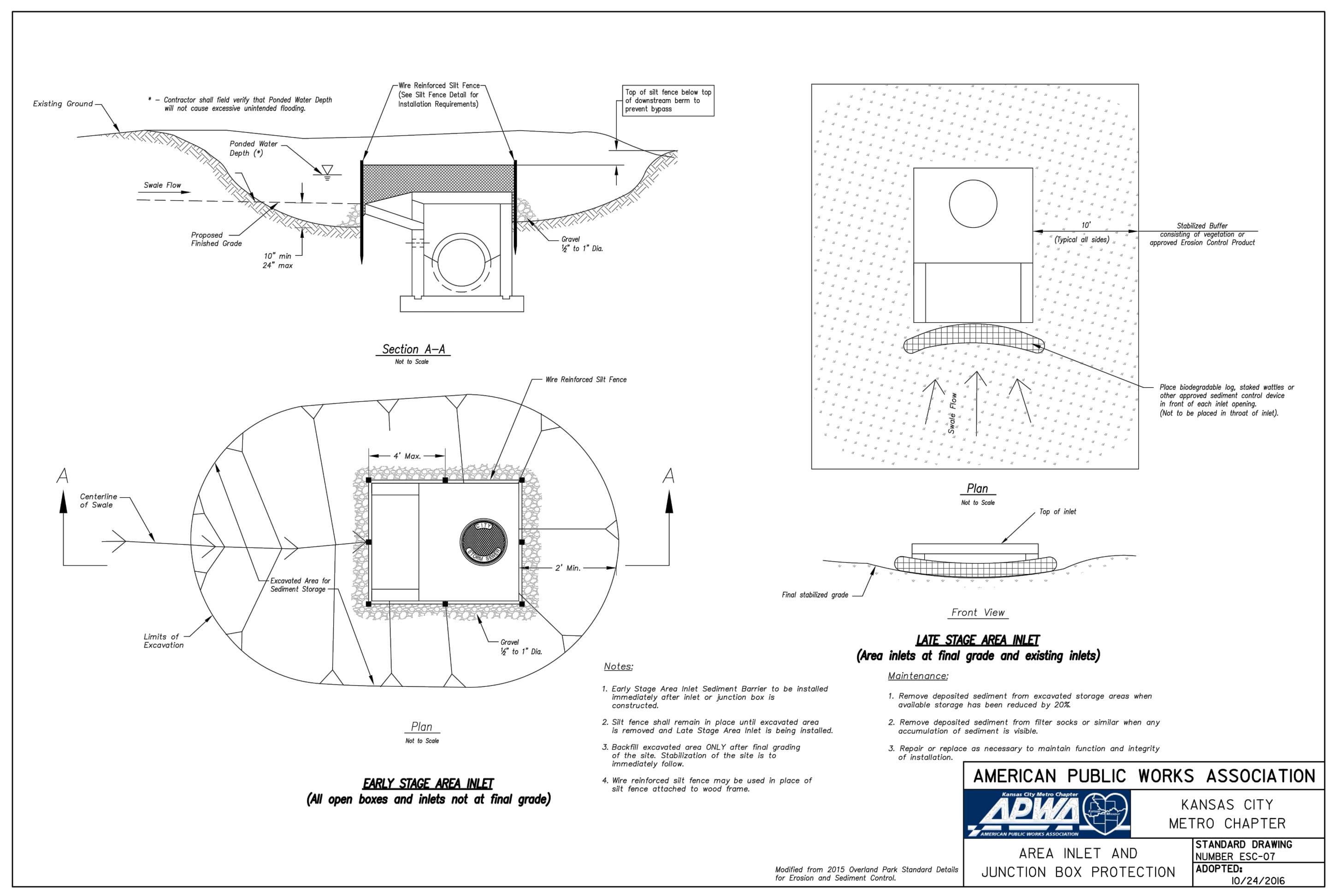
10 YEAR RUNOFF CALCULATIONS

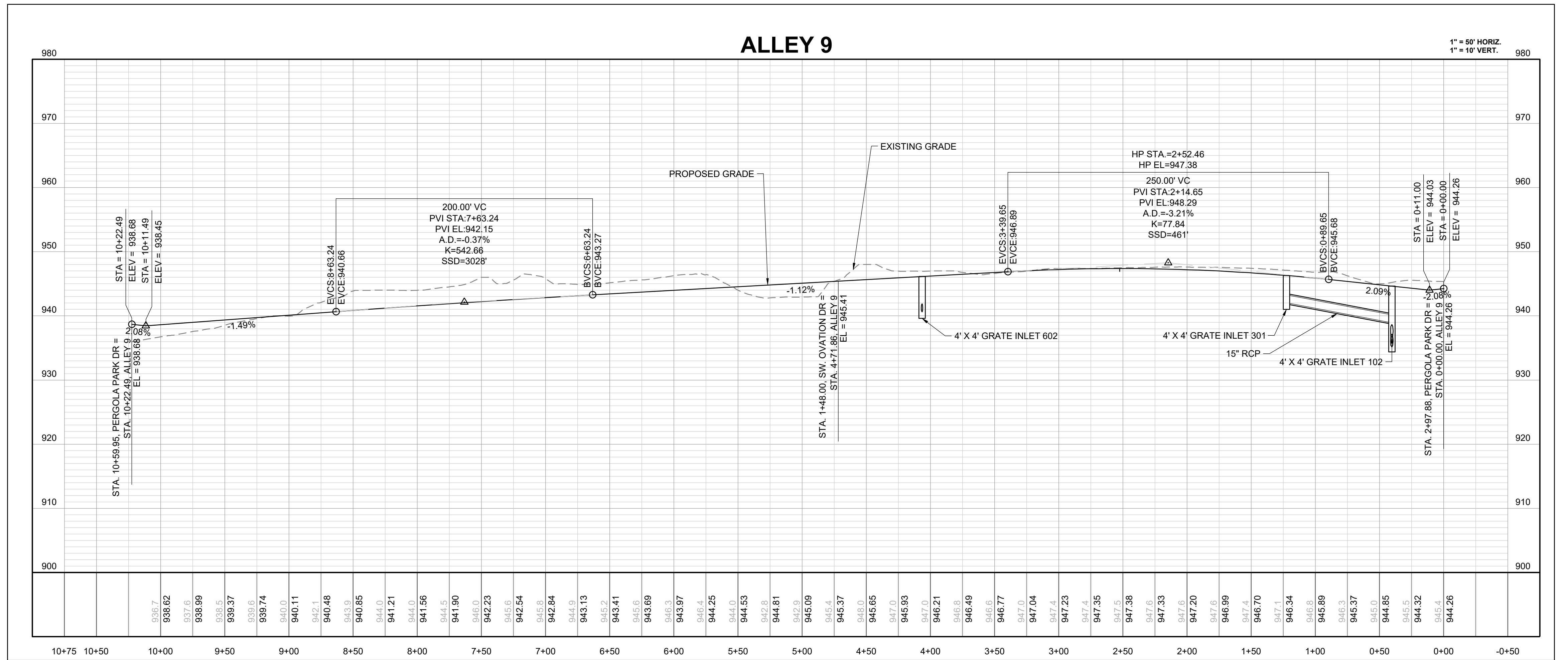
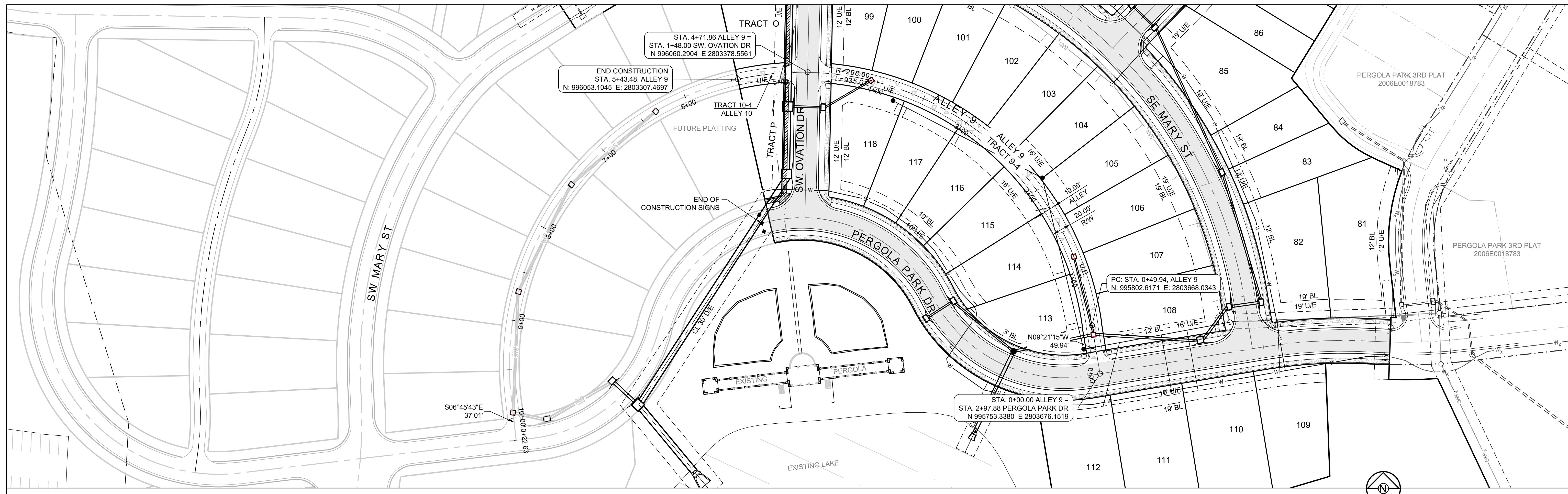
100 YEAR RUNOFF CALCULATIONS

PERGOLA PARK 4TH PLAT STREET, STORMWATER, MASTER DRAINAGE PLAN AND EROSION AND SEDIMENT CONTROL

6
OF 22







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MISSOURI GEOGRAPHIC REFERENCE SYSTEM

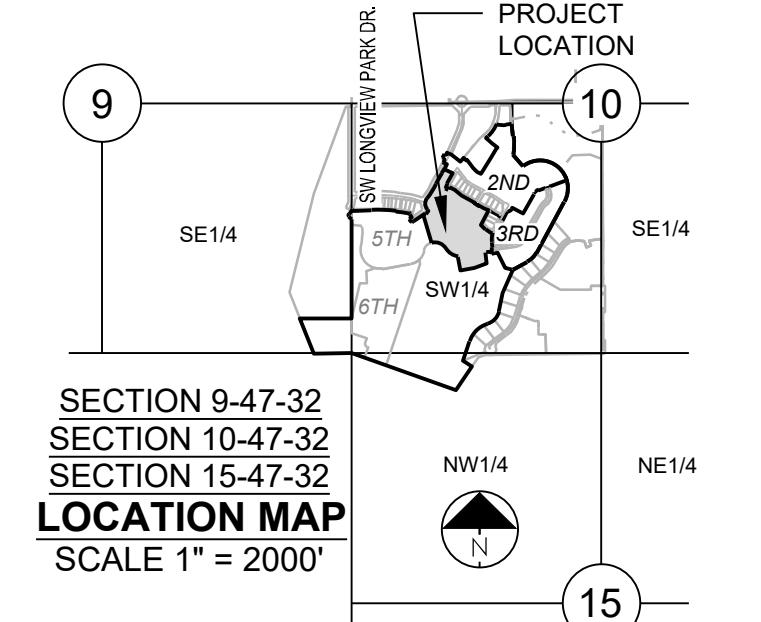
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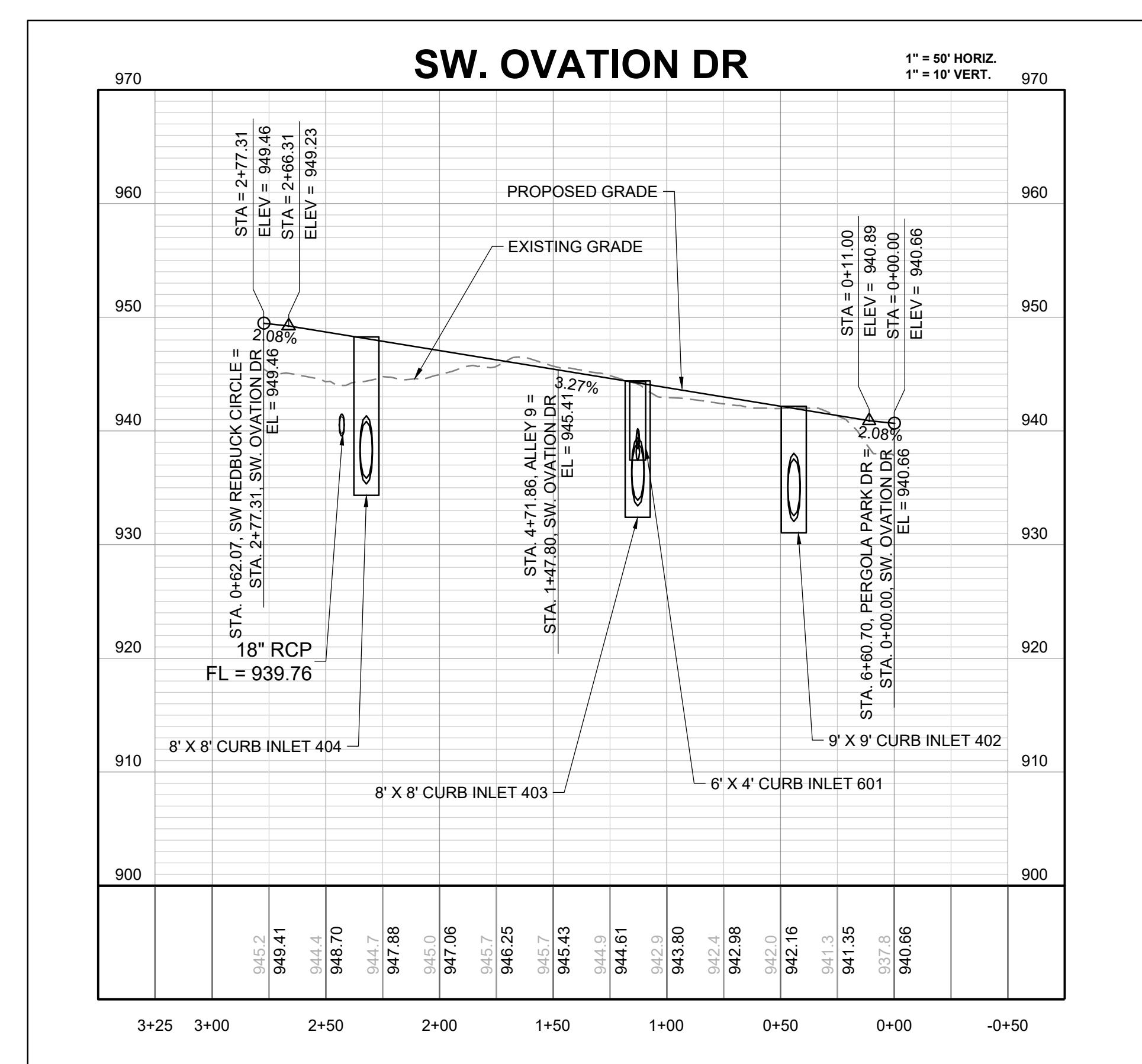
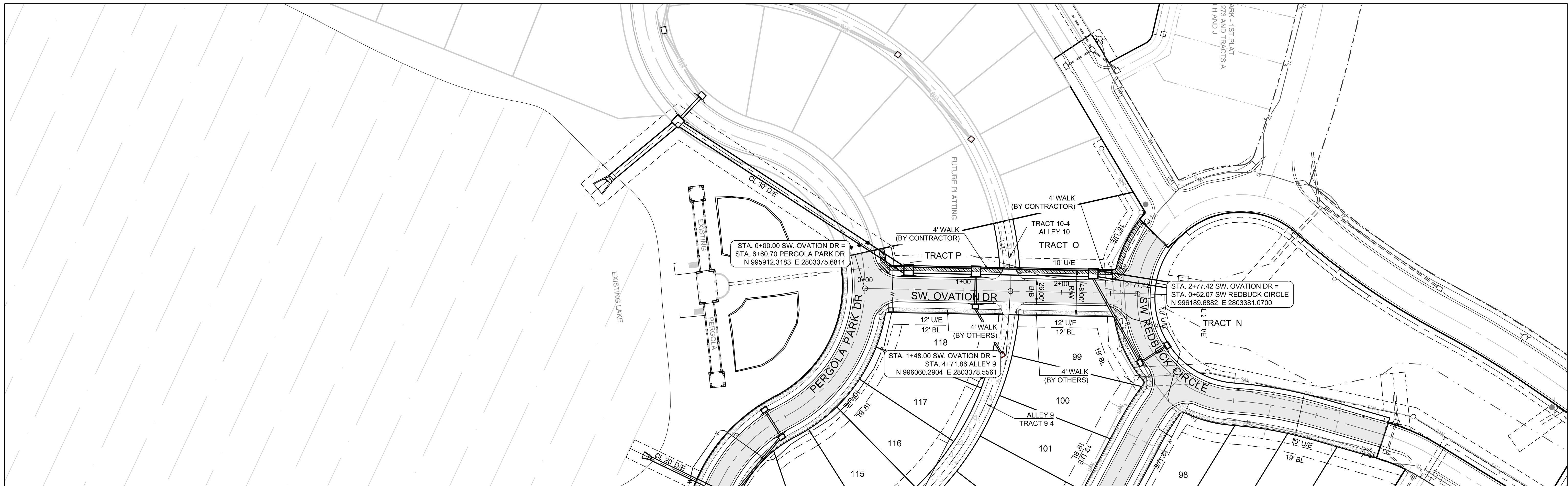
NORTHING: 998893.4148
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ELEV. 1004.09



PERGOLA PARK 4TH PLAT STREET, STORMWATER, MASTER DR PLAN AND EROSION AND SEDIME CONTROI

PERGOLA PARK 4TH PLAT STREET, STORMWATER, MASTER DRAINAGE PLAN AND EROSION AND SEDIMENT CONTROL

11
OF 22



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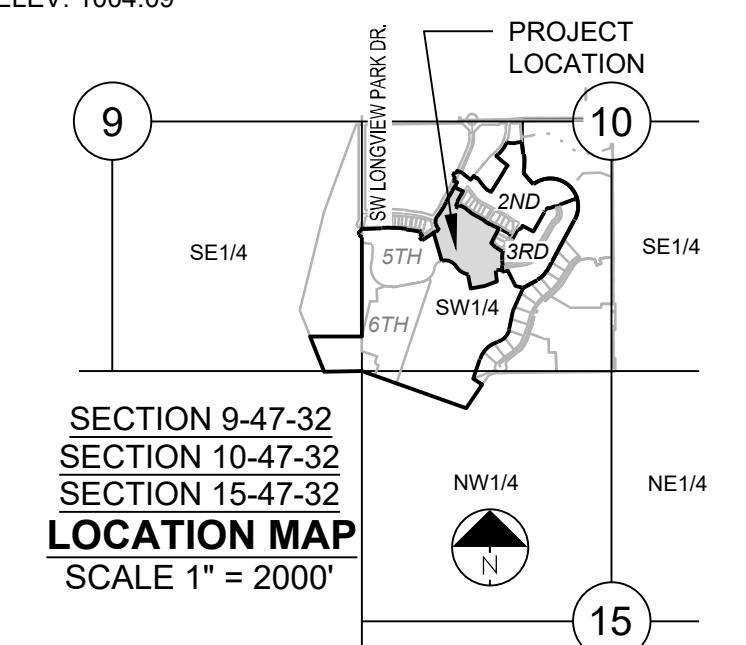
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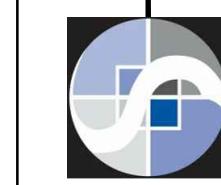
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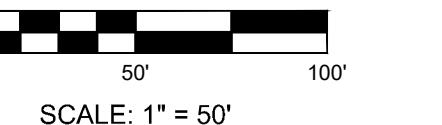
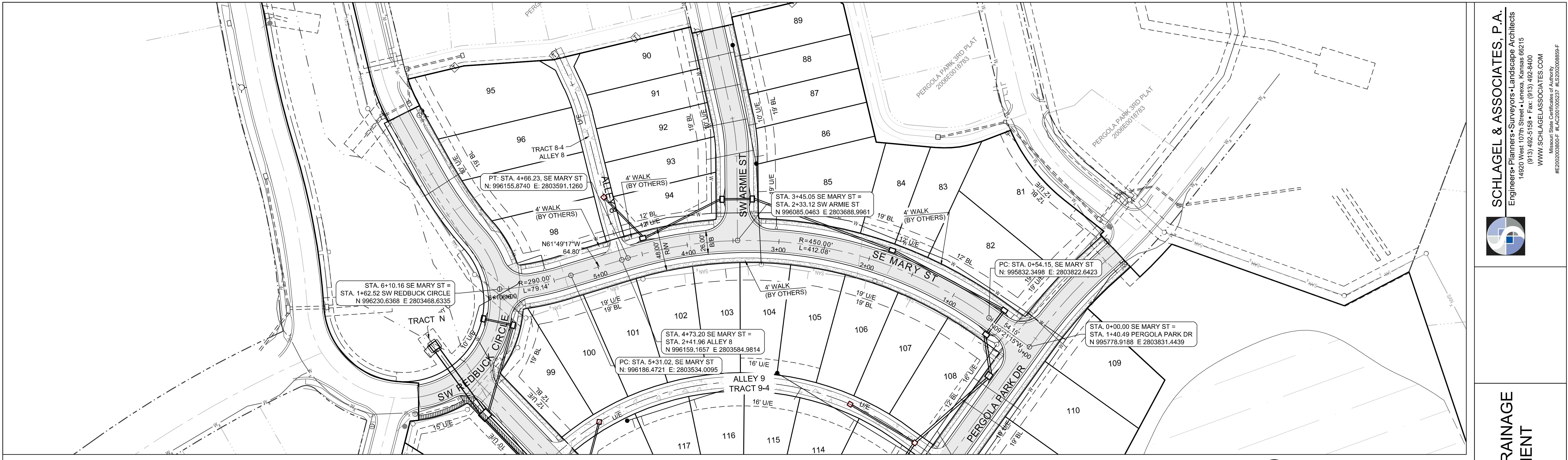
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- LEE'S SUMMIT, MISSOURI



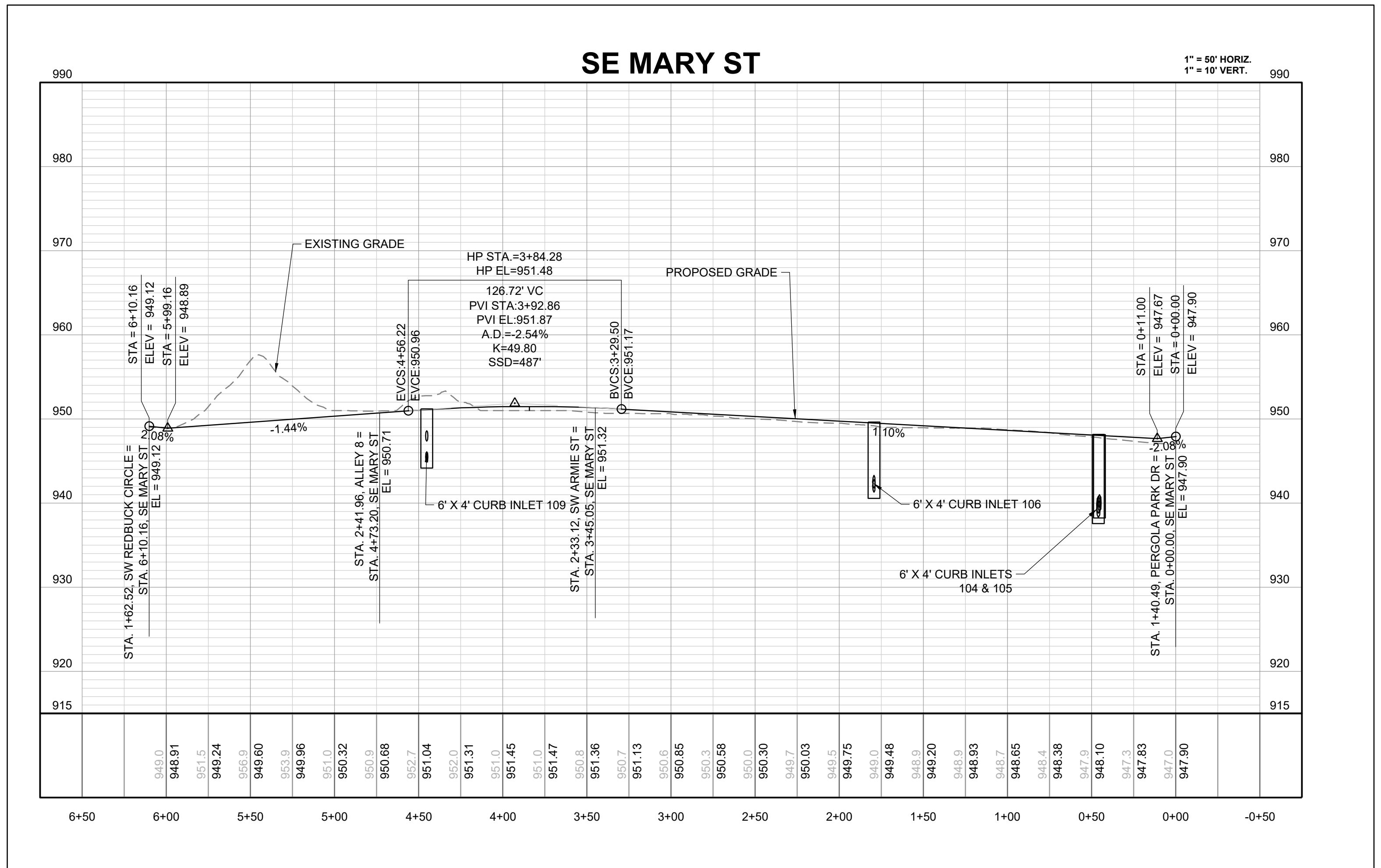
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SCALE: 1" = 50'

NOTE:

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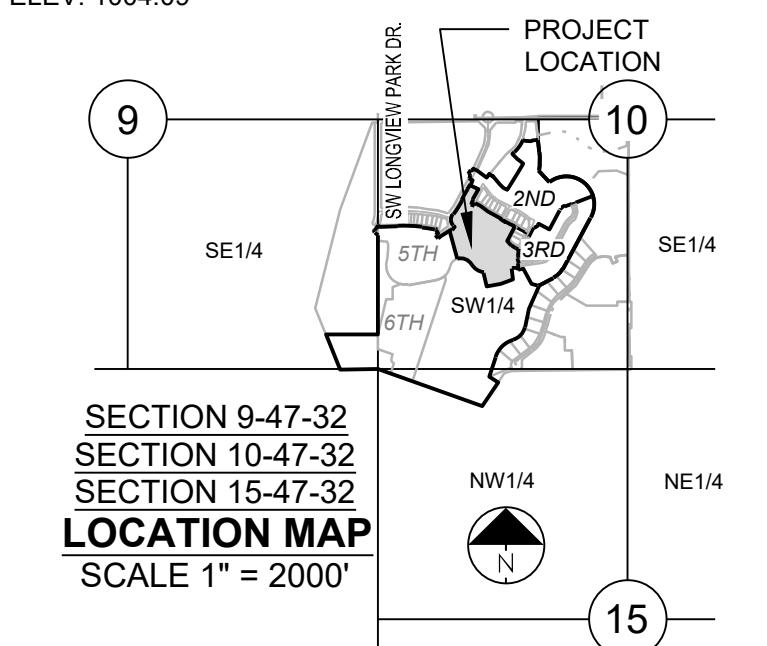
**MISSOURI GEOGRAPHIC REFERENCE SYSTEM
BENCH MARK:**

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

PROJECT BENCHMARK:

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

NORTHING: 998893.4148
EASTING: 2803318.5413
ELEV. 100.09



**PERGOLA PARK 4TH PLAT
STREET, STORMWATER, MASTER DRAINAGE
PLAN AND EROSION AND SEDIMENT**

- LEE'S SUMMIT, MISSOURI

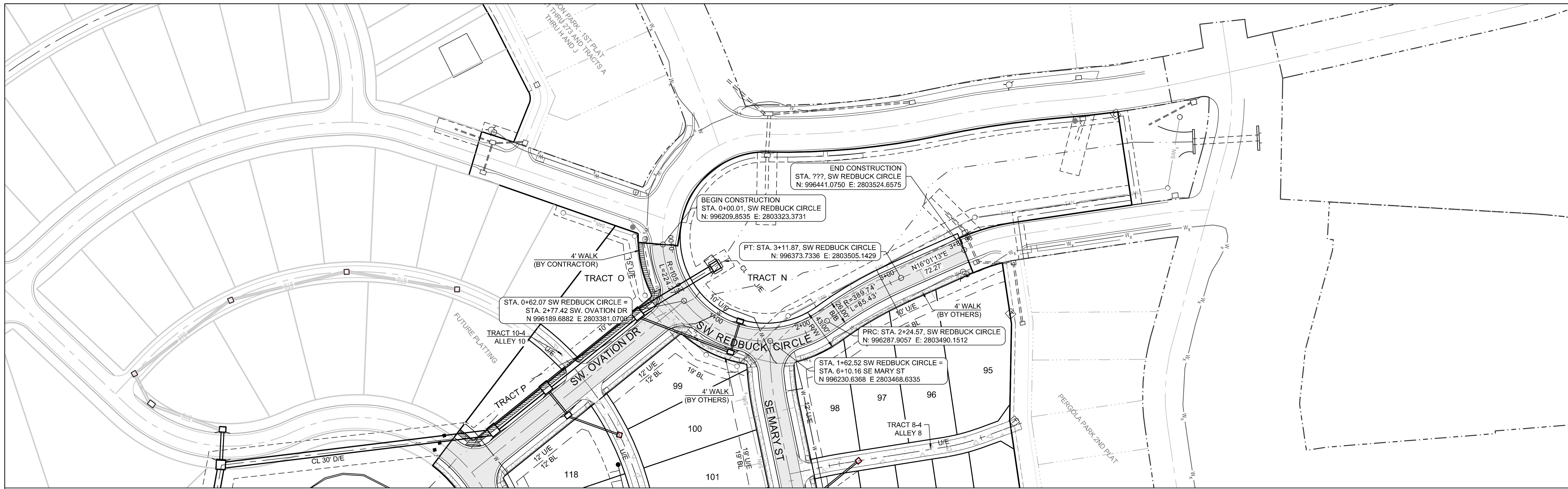
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OF 22



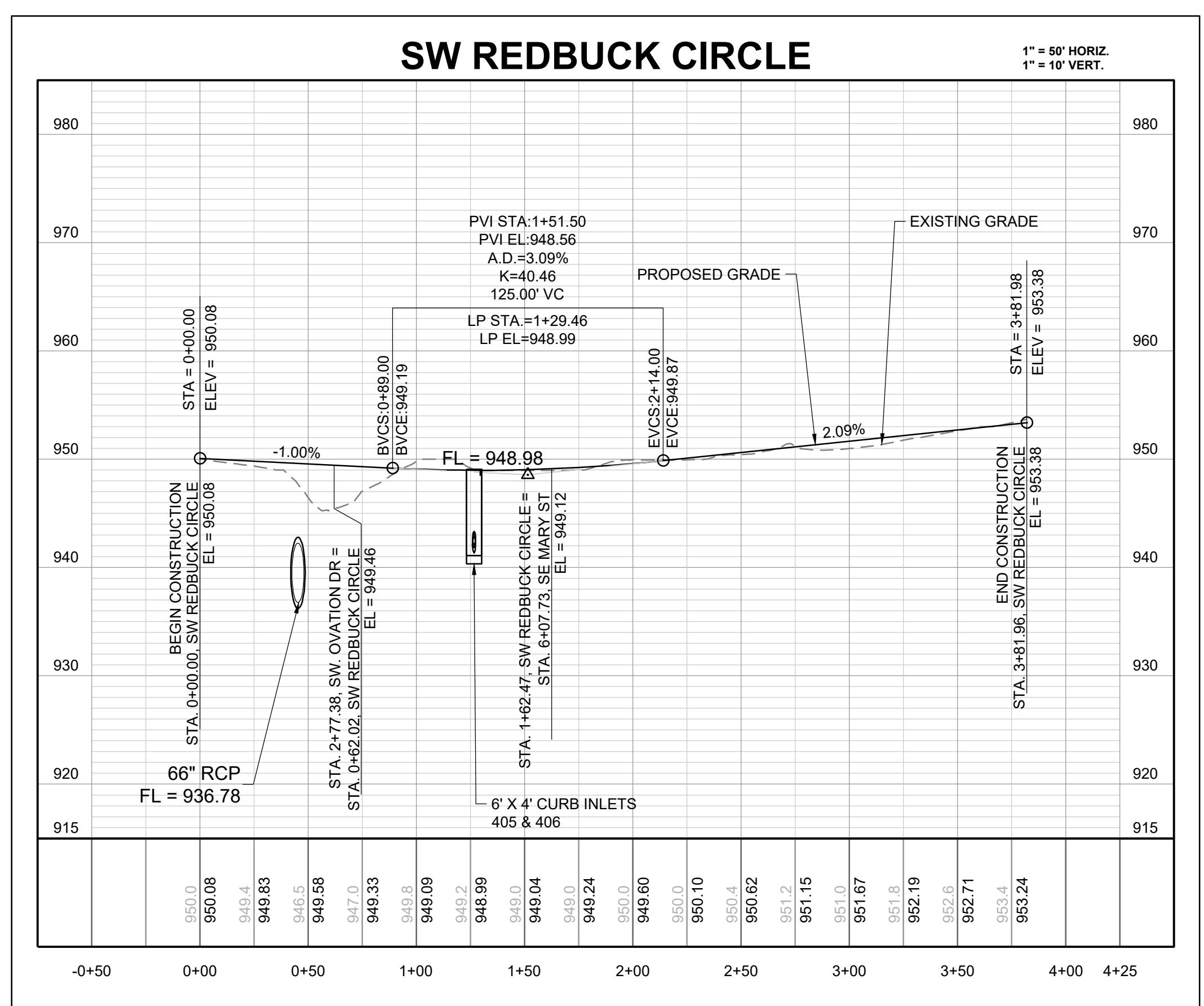
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A scale bar diagram consisting of a horizontal line divided into segments. The first 50' is marked with alternating black and white squares, representing a 1" scale mark. The remaining 50' is shown as a solid black rectangle. Numerical labels '0', '50'', and '100'' are placed below the line at their respective positions.

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SW REDBUCK CIRCLE

MISSOURI GEOGRAPHIC REFERENCE SYSTEM

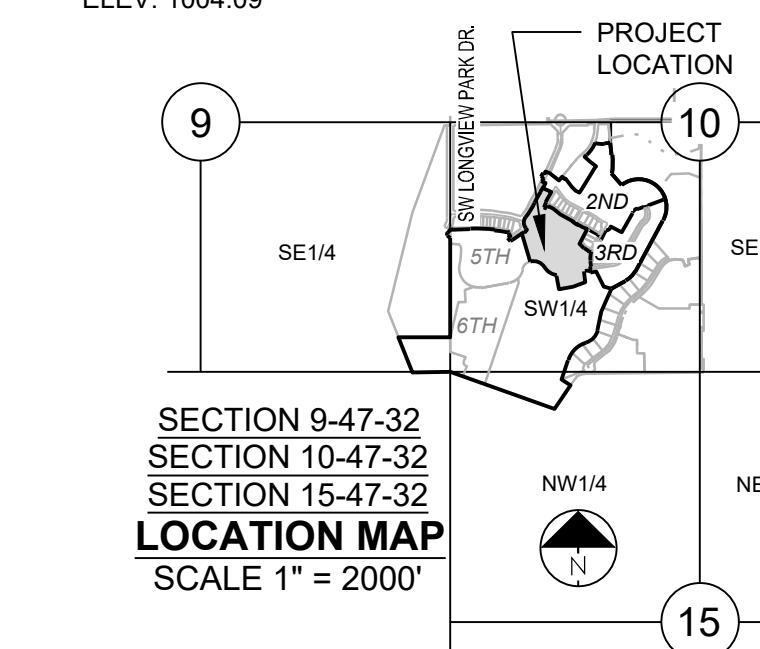
BENCH MARK:

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PROJECT BENCHMARK:

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

NORTHING: 998893.4148
EASTING: 2803318.5413
ELEV. 1004.09



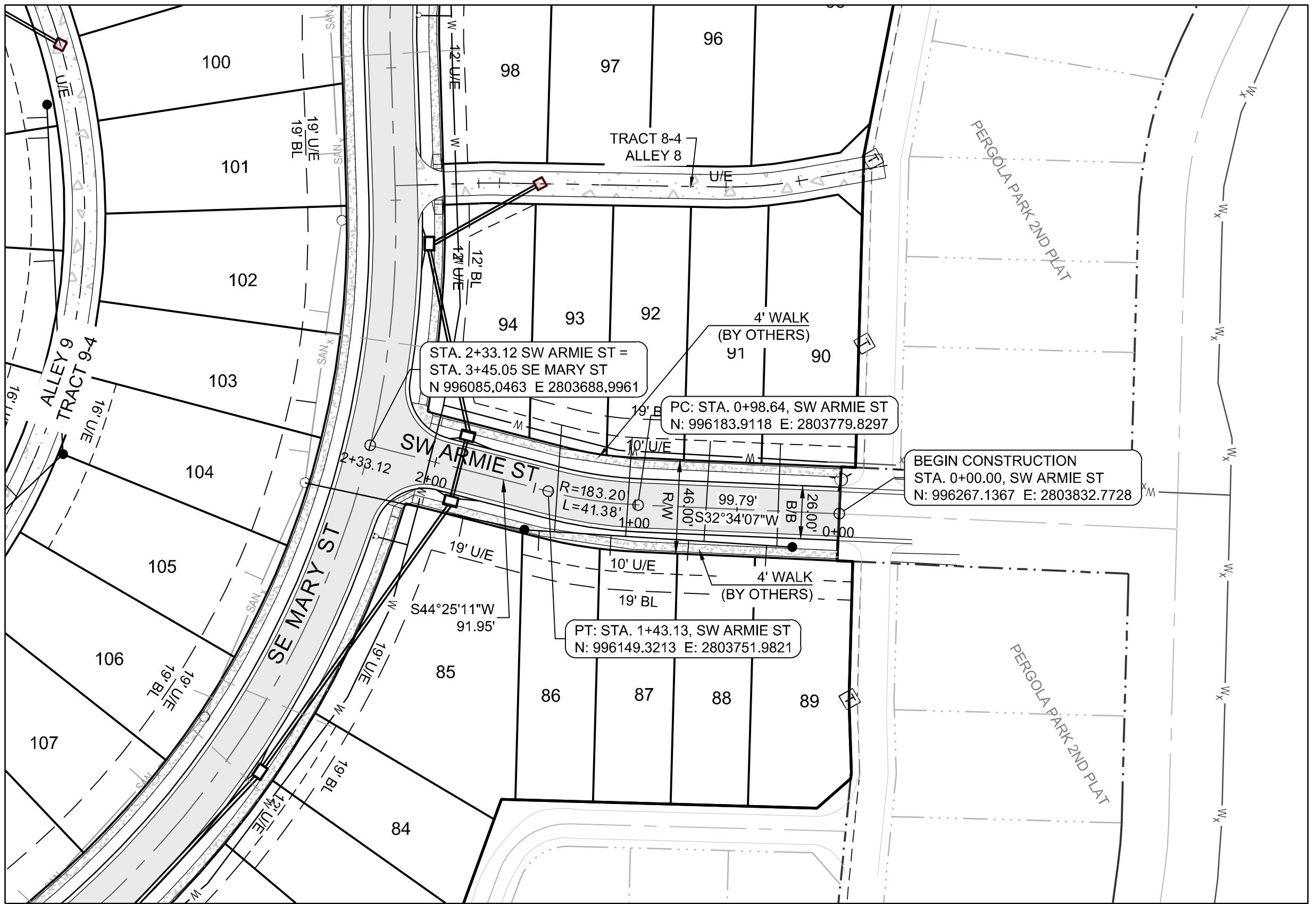
SECTION 15-47-32

SCALE 1" = 2000

SCALE 1 : 2000

PERGOLA PARK 4TH PLAT STREET, STORMWATER, MASTER DRAINAGE PLAN AND EROSION AND SEDIMENT CONTROL

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OF 22

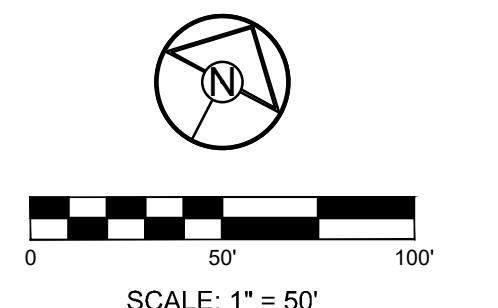


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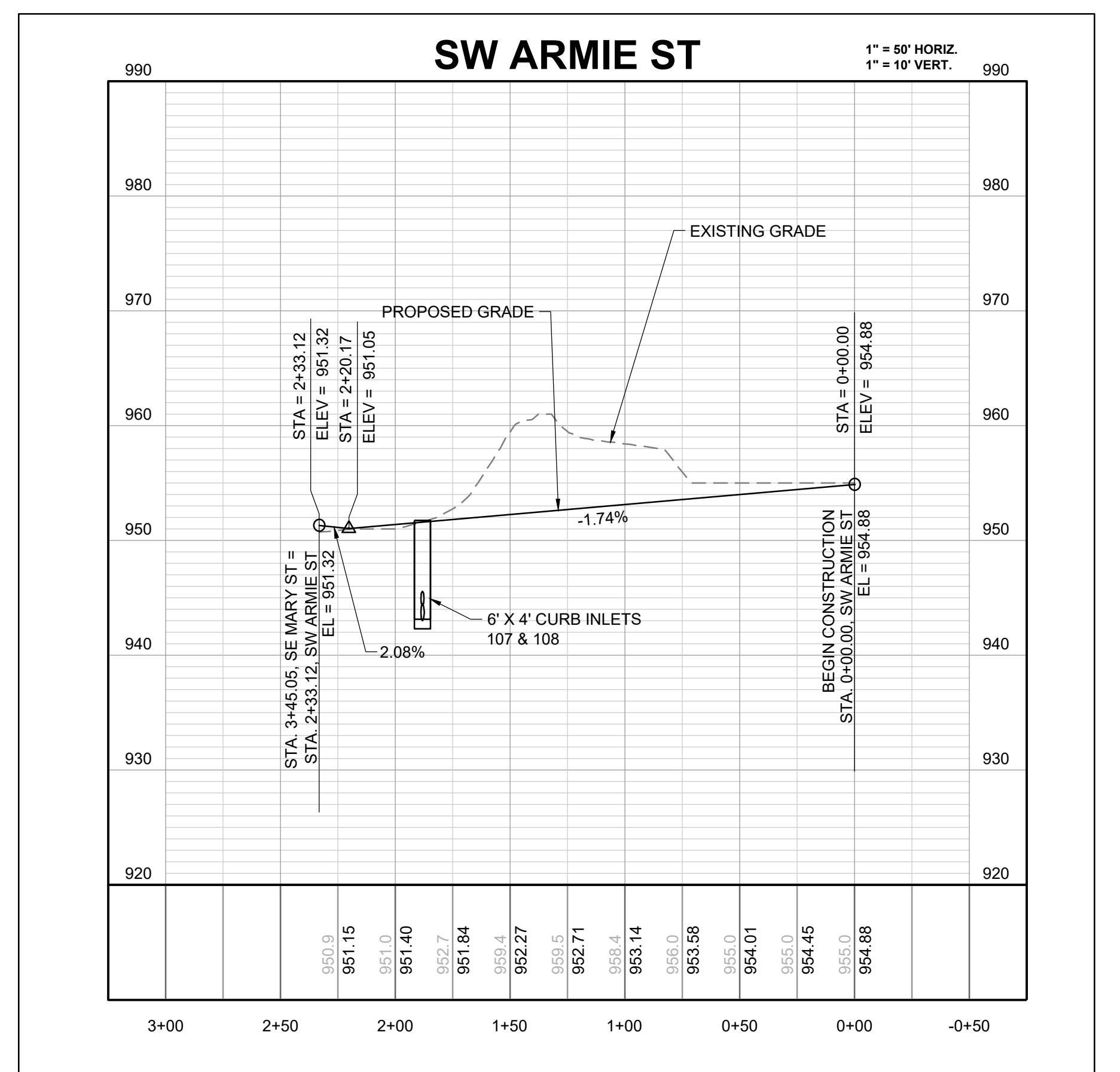
THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS PRIOR TO EXCAVATIONS.

MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCH MARK:

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



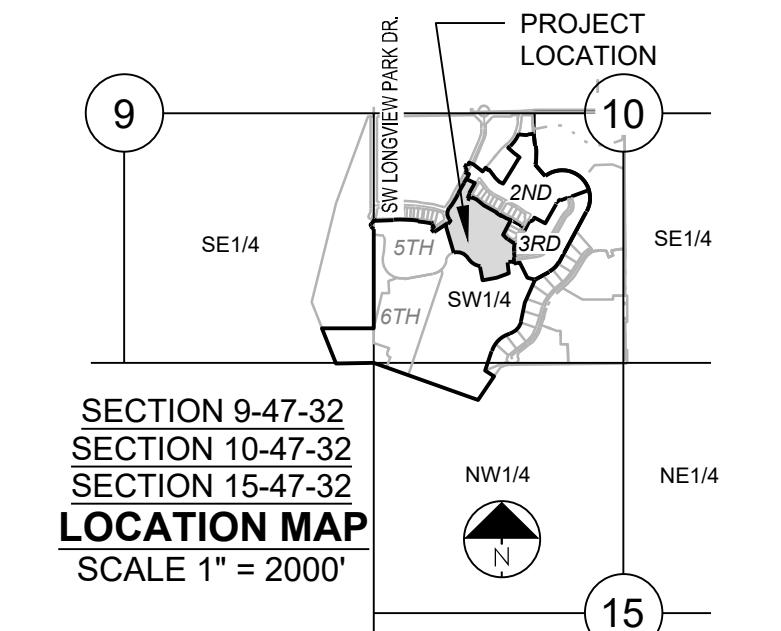
SCALE: 1" = 50'



PROJECT BENCHMARK:

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

NORTHING: 998893.4148
 EASTING: 2803318.5413
 ELEV: 1004.09



PERGOLA PARK 4TH PLAT STREET, STORMWATER, MASTER DRAINAGE PLAN AND EROSION AND SEDIMENT

- LEE'S SUMMIT, MISSOURI

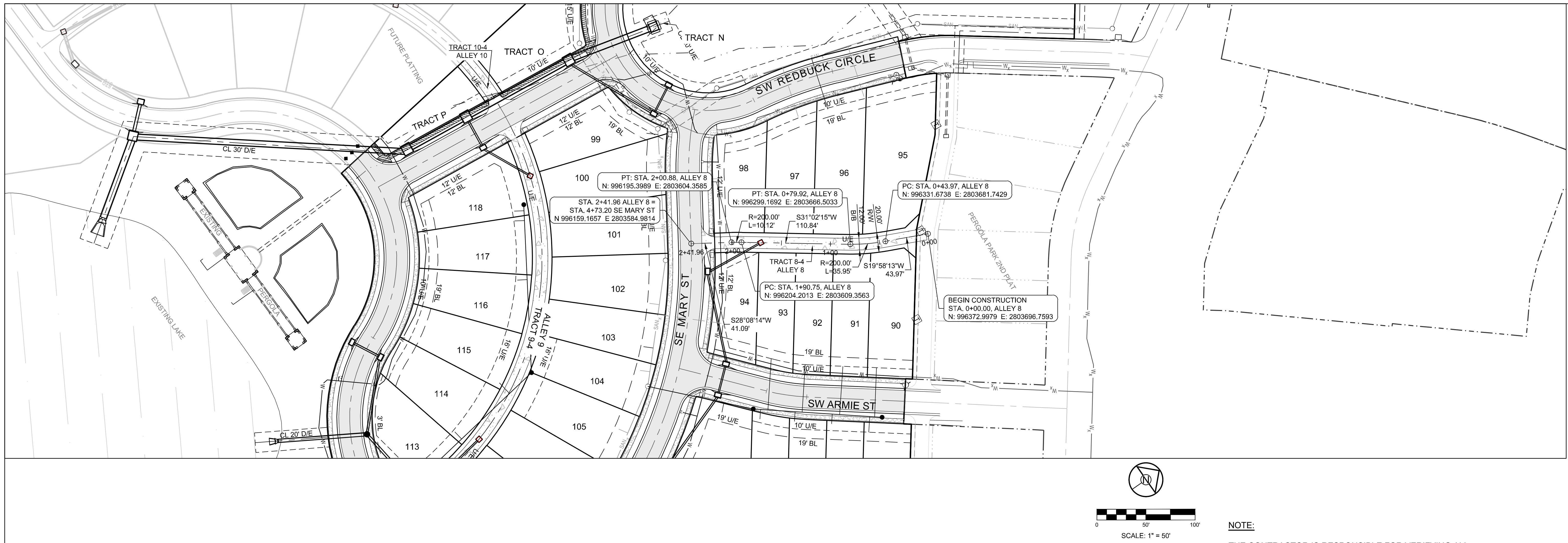
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SW. ARMIE ST

SHEET

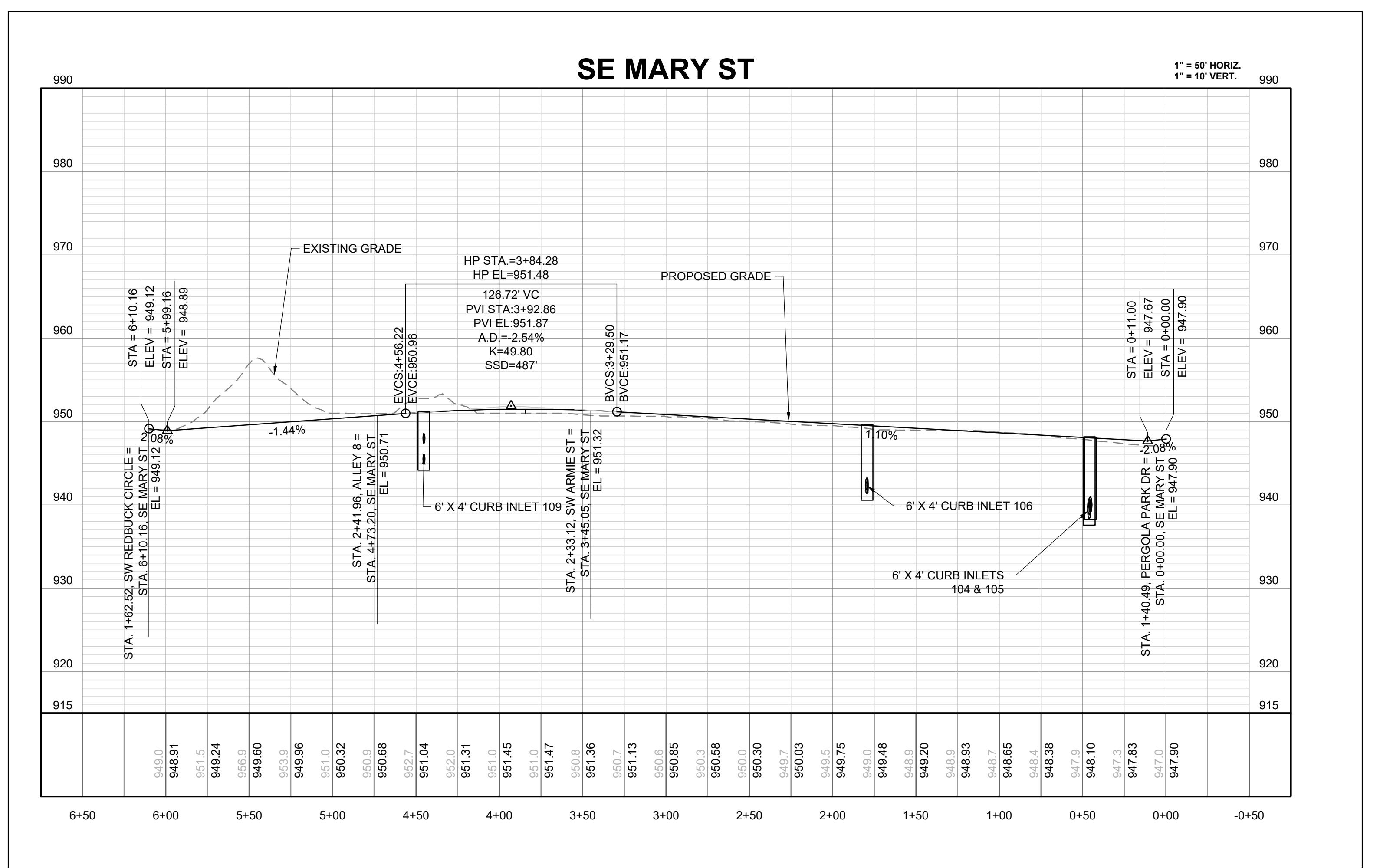
19-02



SCALE: 1" = 50'
0 50' 100'

NOTE:

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PERGOLA PARK 4TH PLAT STREET, STORMWATER, MASTER DRAINAGE PLAN AND EROSION AND SEDIMENT

- LEE'S SUMMIT, MISSOURI

STORM PLAN

SHEET

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OF 22

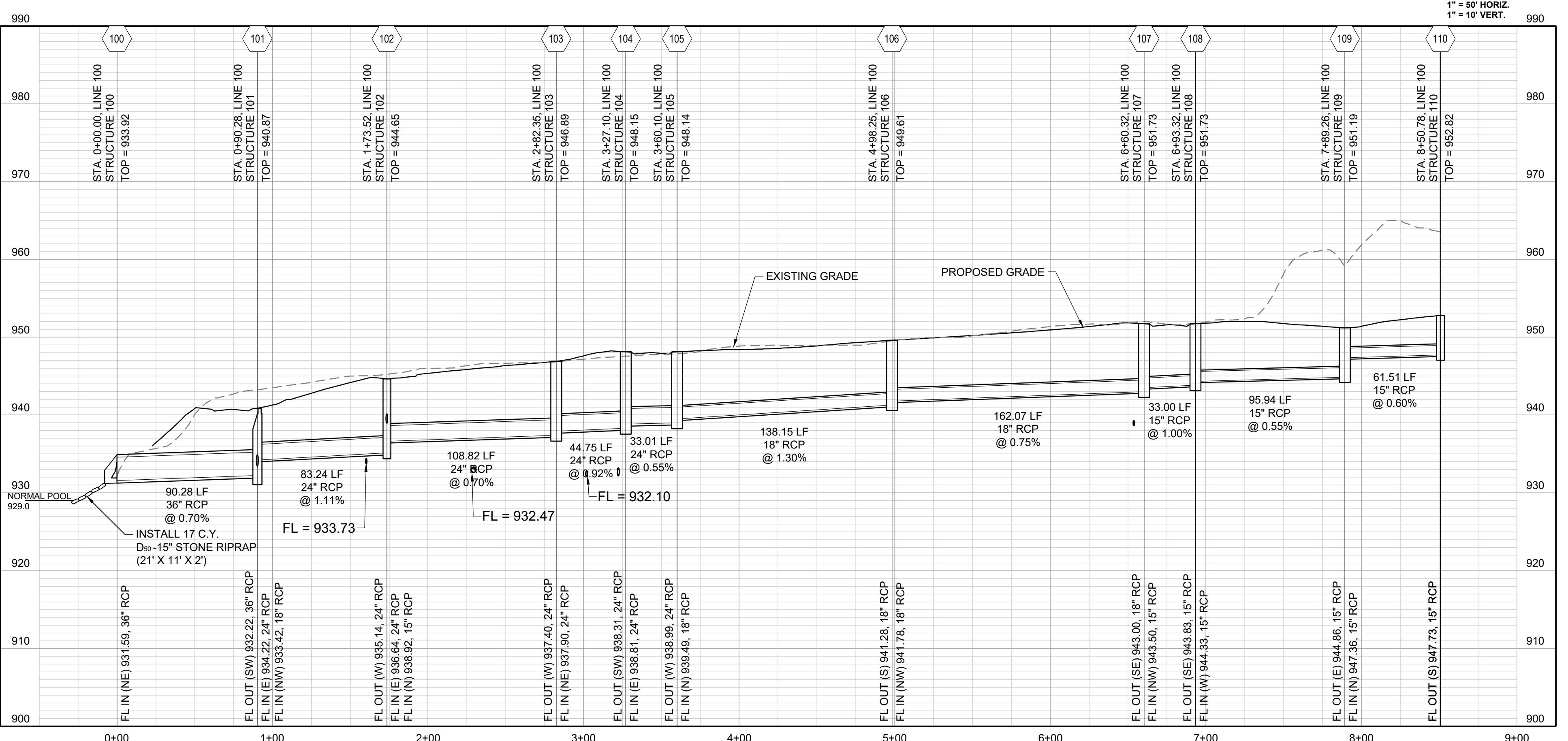
Storm Sewer Construction Notes	
Structure	Notes
100	STA 0+00.00, LINE 100 INSTALL 41 X 72 X 24 INCH CMP RECTANGULAR END SECTION 245'32"19" N 995694.8511 E 2803548.9565
101	STA 0+90.28, LINE 100 INSTALL STANDARD 5' DIA ECCENTRIC MANHOLE 64°18'24" N 995776.2064 E 2803588.0987
102	STA 1+73.52, LINE 100 INSTALL 4 X 4 AREA INLET 3'50"99" N 995793.2103 E 2803669.5838
103	STA 2+62.35, LINE 100 INSTALL 6 X 6 CURB INLET 9'57"32" N 995787.8967 E 2803778.2777
104	STA 3+27.10, LINE 100 INSTALL 6 X 4 CURB INLET 97°24'23" N 995621.6253 E 2803807.6866
105	STA 3+60.10, LINE 100 INSTALL 6 X 4 CURB INLET 280°10'20" N 995826.3378 E 2803840.3550
106	STA 4+98.25, LINE 100 INSTALL 6 X 4 CURB INLET 118°4'53" N 995958.5759 E 2803800.3782
107	STA 6+60.32, LINE 100 INSTALL 6 X 4 CURB INLET 44°50'34" N 996105.6524 E 2803732.2907
108	STA 6+93.32, LINE 100 INSTALL 6 X 4 CURB INLET 44°41'26" N 996128.7494 E 2803708.7210
109	STA 7+89.26, LINE 100 INSTALL 6 X 4 CURB INLET 150°4'53" N 996159.6705 E 2803617.9003

Storm Sewer Construction Notes	
Structure	Notes
406	STA 6+91.91, LINE 400 INSTALL 6 X 4 CURB INLET 212°54'17" N 996220.2979 E 2803433.4418
501	STA 0+35.50, LINE 500 INSTALL 6 X 4 CURB INLET 45°44'53" N 995746.3024 E 2803179.5267
502	STA 0+76.93, FUTURE LINE 500 INSTALL 6 X 4 CURB INLET 193°25'14" N 995707.5662 E 2803113.0569
503	STA 1+12.08, FUTURE LINE 500 INSTALL 4 X 4 GRATE INLET 169°4'30" N 995713.8518 E 2803078.4775
504	STA 2+35.43, FUTURE LINE 500 INSTALL 4 X 4 GRATE INLET 72°05'54" N 995837.0622 E 2803084.2863
505	STA 3+56.69, FUTURE LINE 500 INSTALL 4 X 4 GRATE INLET 52°37'51" N 995945.8094 E 2803137.9371
506	STA 4+70.52, FUTURE LINE 500 INSTALL 4 X 4 GRATE INLET 50°25'10" N 996020.4745 E 2803223.8584
601	STA 0+36.00, LINE 600 INSTALL 6 X 4 CURB INLET 268°53'13" N 996024.7536 E 2803394.3688
602	STA 0+91.86, LINE 600 INSTALL 4 X 4 GRATE INLET 40°21'37" N 996051.9081 E 2803443.1821
701	STA 0+91.55, LINE 700 INSTALL 6 X 9 AREA INLET 86°40'01" N 996236.1436 E 2803368.0147

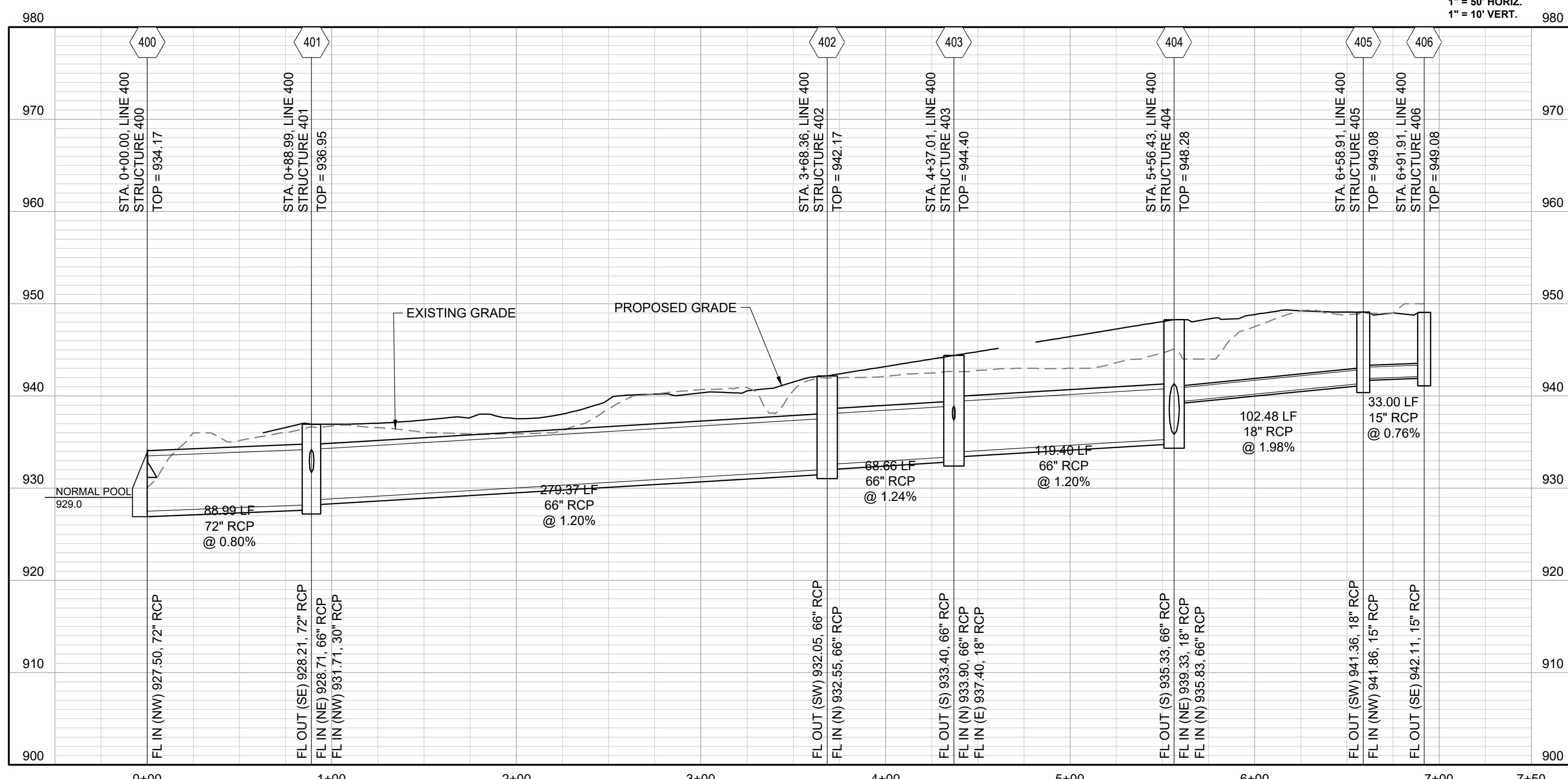
Storm Sewer Construction Notes	
Structure	Notes
110	STA 8+50.78, LINE 100 INSTALL 4 X 4 AREA INLET 88°27'08" N 996221.1611 E 2803619.5619
201	STA 0+79.83, LINE 200 INSTALL 6 X 4 AREA INLET 121°29'35" N 995827.6413 E 2803527.0512
202	STA 1+12.83, LINE 200 INSTALL 6 X 4 AREA INLET 302°29'18" N 995809.9160 E 2803499.2157
301	STA 0+81.86, LINE 300 INSTALL 4 X 4 AREA INLET 14°06'51" N 995872.6005 E 2803649.6217
400	STA 0+00.00, LINE 400 INSTALL 99 X 108 X 72 INCH CMP RECTANGULAR END SECTION 315°13'27" N 995654.0896 E 2803262.8877
401	STA 0+88.99, LINE 400 INSTALL 9 X 9 CURB INLET 137°02'37" N 995722.1112 E 2803205.5082
402	STA 3+68.36, LINE 400 INSTALL 10 X 9 CURB INLET 0°0'00" N 995956.8083 E 2803357.0420
403	STA 4+37.01, LINE 400 INSTALL 10 X 9 CURB INLET 358°53'13" N 996025.4529 E 2803358.3756
404	STA 5+56.43, LINE 400 INSTALL 10 X 9 CURB INLET 0°26'17" N 996144.8345 E 2803360.6949
405	STA 6+58.91, LINE 400 INSTALL 6 X 4 CURB INLET 28°19'30" N 996192.5919 E 2803451.3689



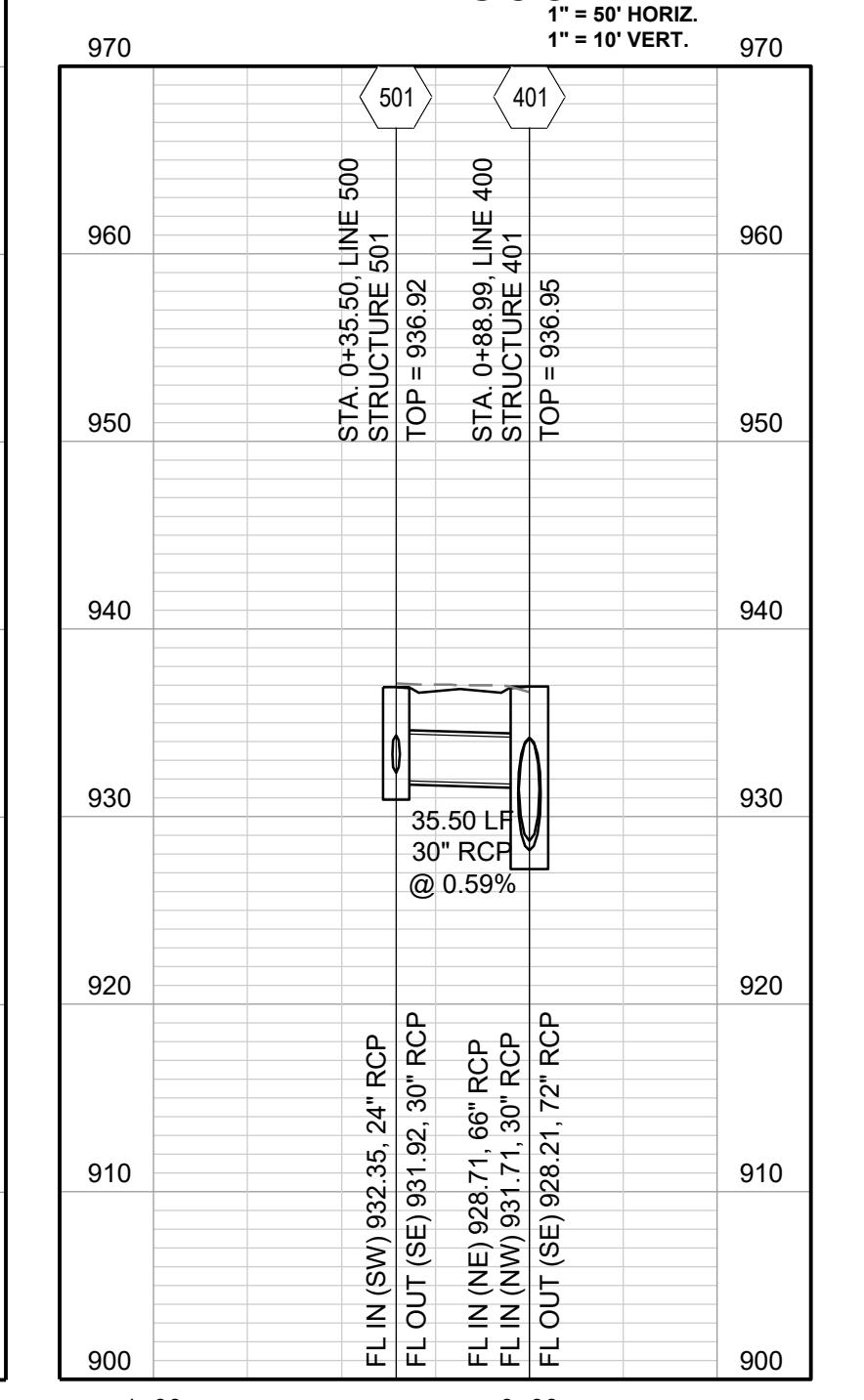
LINE 100



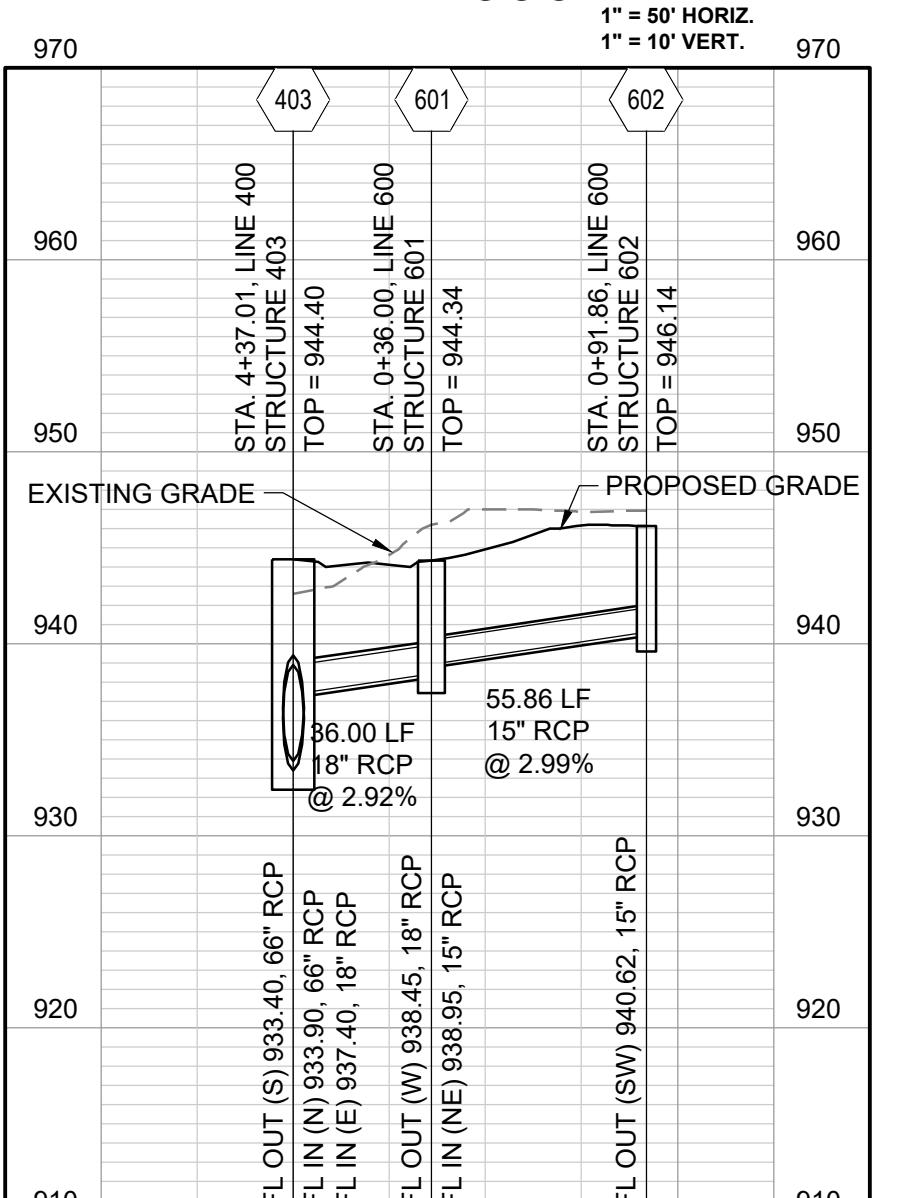
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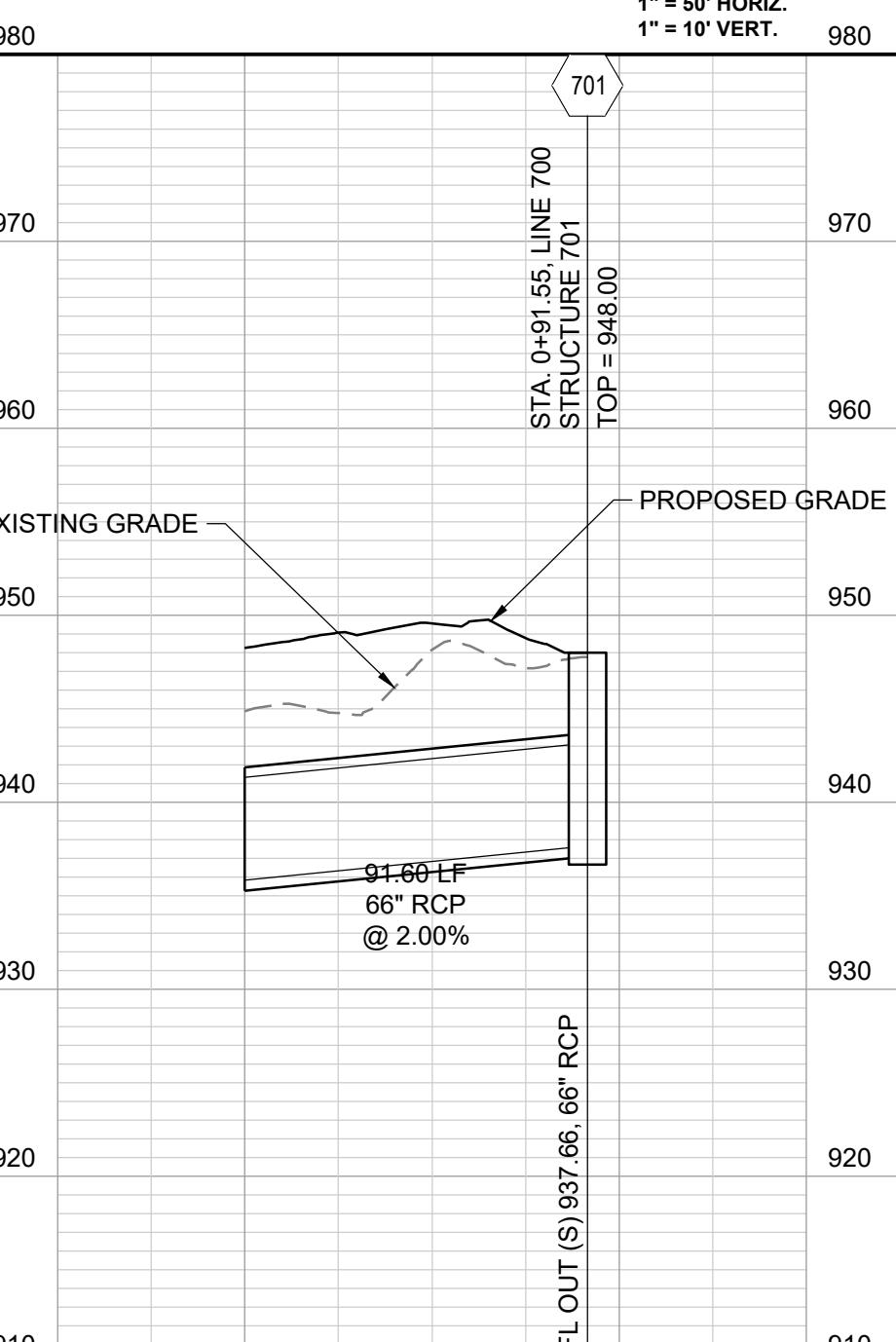
LINE 500



LINE 600



LINE 700

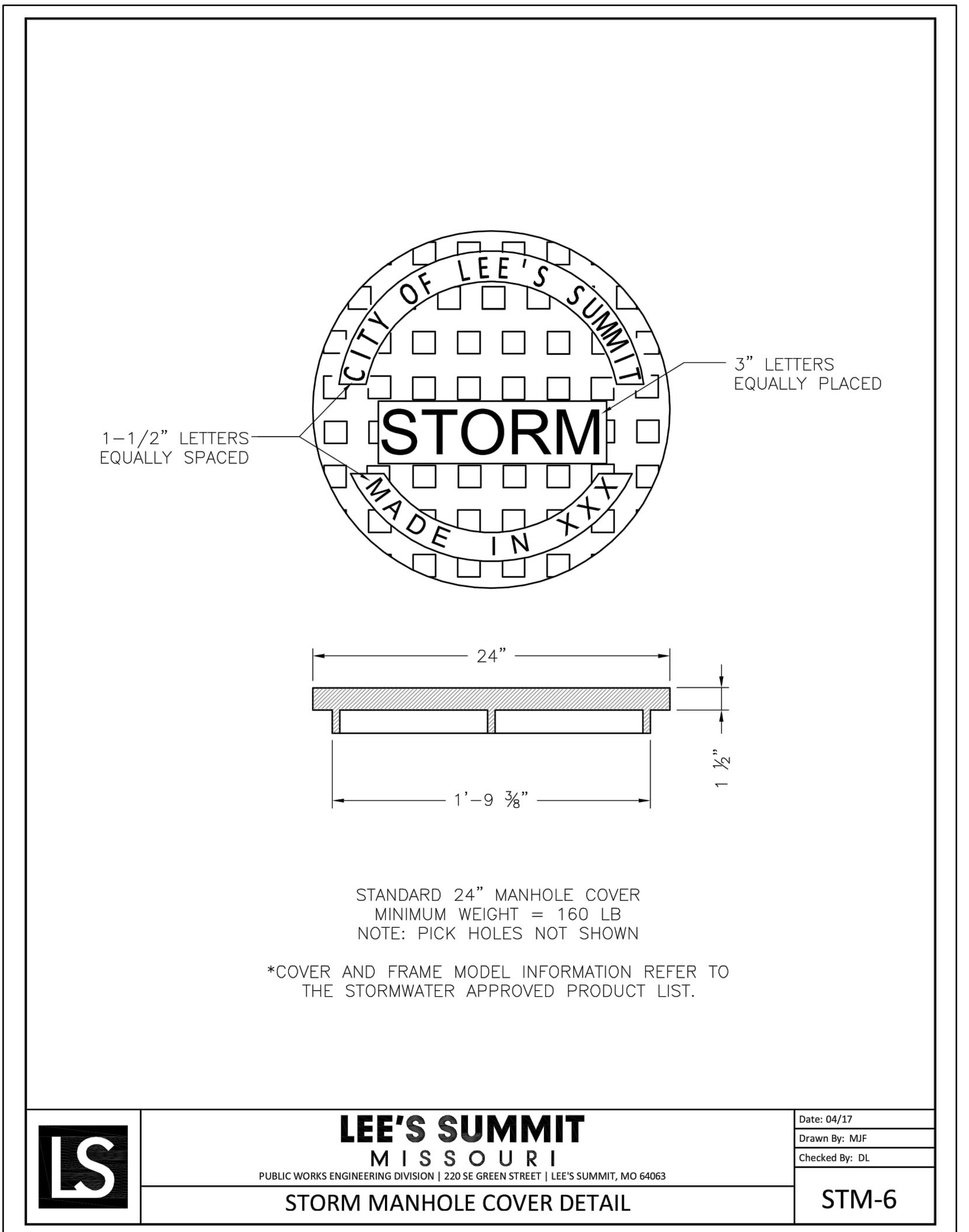
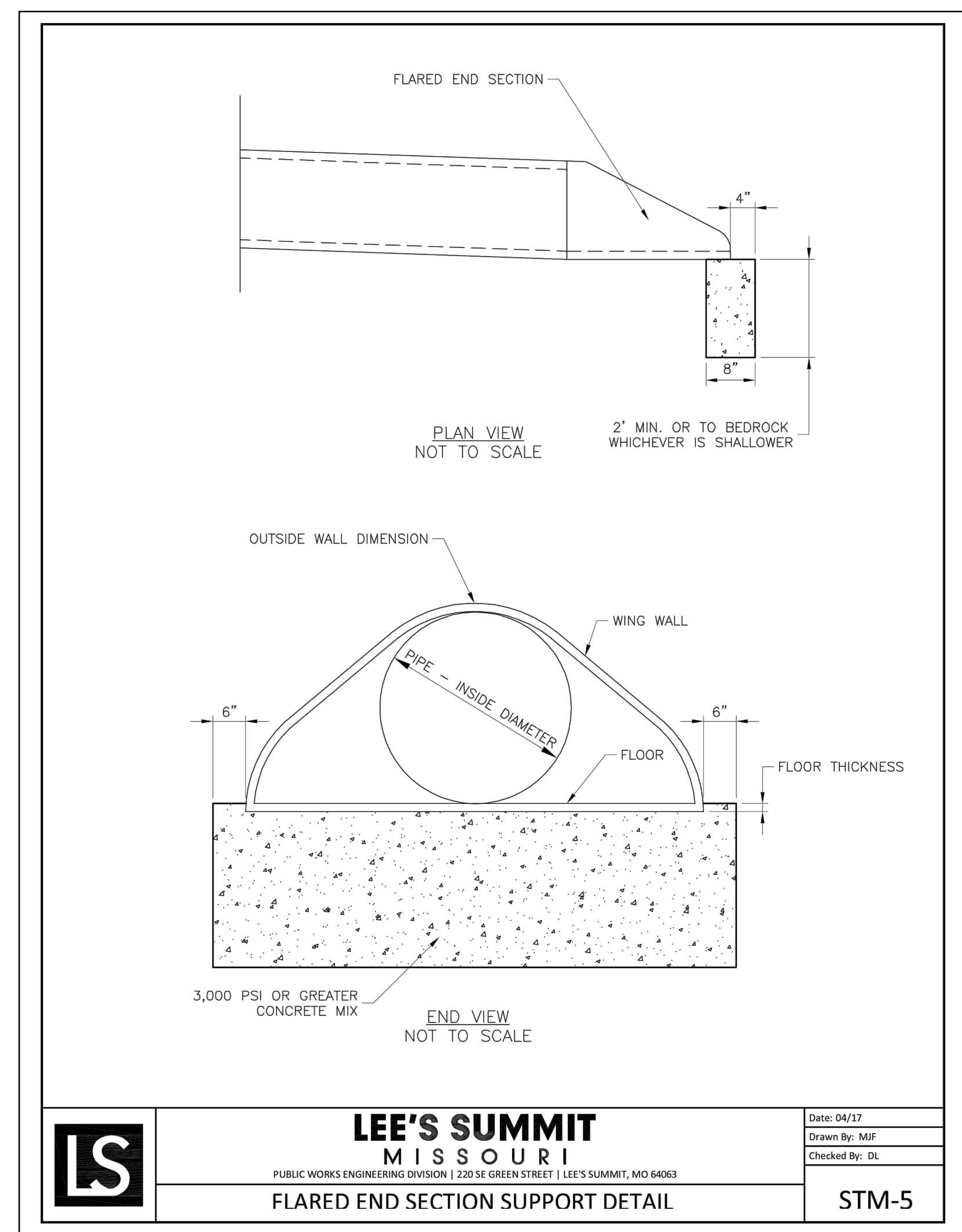
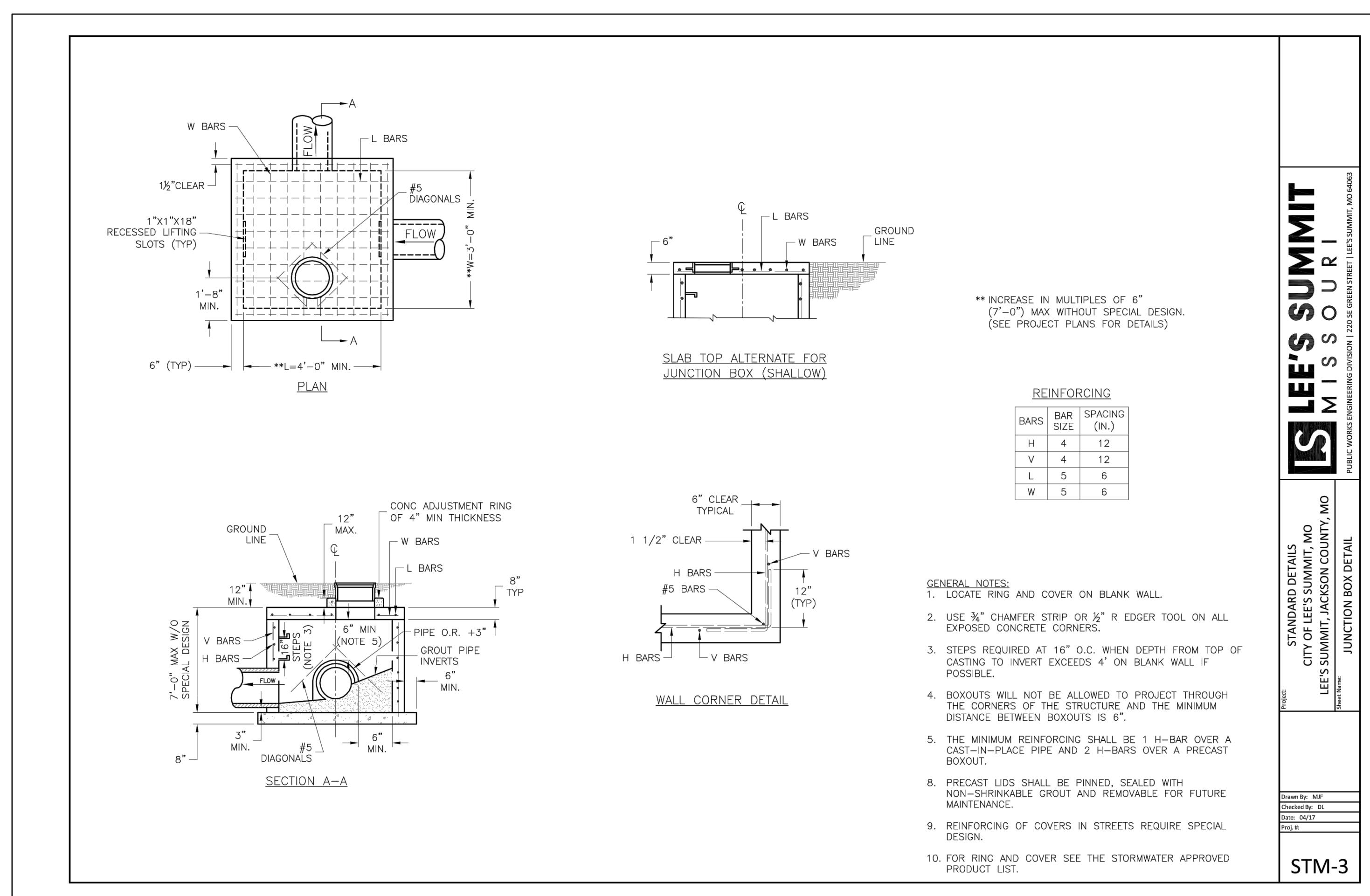
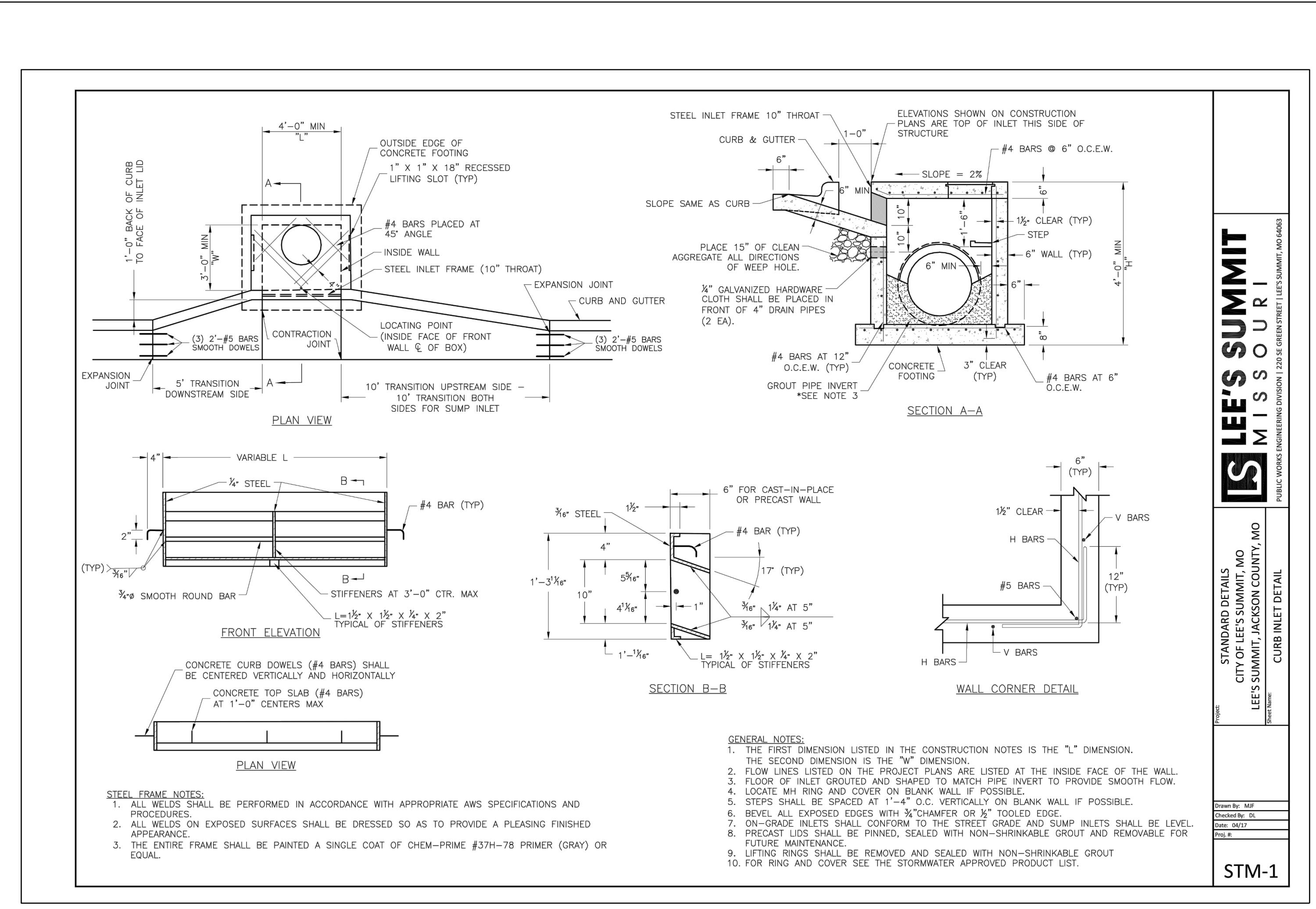


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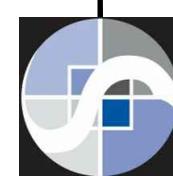
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