

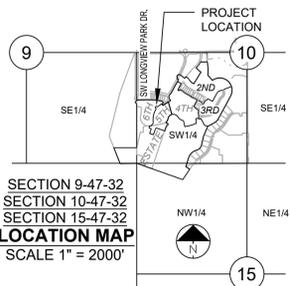


EARTHWORK SUMMARY	
CUT	6,074
FILL	0
NET	6,074 CY CUT

EARTHWORK NOTE:
EARTHWORK CALCULATIONS DESIGNED TO FINISH GRADE WITH A COMPACTION FACTOR OF 1.15

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

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



MISSOURI GEOGRAPHIC REFERENCE SYSTEM BENCHMARK:

BM JA-148, IS A STAMPED KC METRO DISK SET IN CONCRETE LOCATED 2 MILES WEST OF THE INTERSECTION OF HIGHWAY 50 AND 3RD ST. IT IS 44 FT NORTH OF THE CENTER OF 3RD ST. AND 102.5 FT WEST OF THE CENTER OF THE EXIT FROM THE ADJACENT PARKING LOT.
ELEV. 935.18

PROJECT BENCHMARK:

CHISELED "SQUARE" ON STORM CURB INLET AT NORTHWEST INTERSECTION OF SW. TOWER PARK DRIVE AND SW. LONGVIEW BOULEVARD.
NORTHING: 998893.4148
EASTING: 2803318.5413
ELEV. 1004.09

SURVEY NOTES

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

NOTES:
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SW CORNER, SW 1/4
SEC. 10-47-32
CORP OF ENGINEERS 3"
ALUMINUM MONUMENT

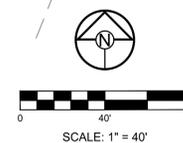
**PERGOLA PARK 6TH PLAT
STREET, STORMWATER, MASTER DRAINAGE
PLAN
----- LEE'S SUMMIT, MISSOURI**

REVISION DATE	DESCRIPTION
11-8-24	CITY COMMENTS

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



SW CORNER, SW 1/4
SEC. 10-47-32
CORP OF ENGINEERS 3"
ALUMINUM MONUMENT



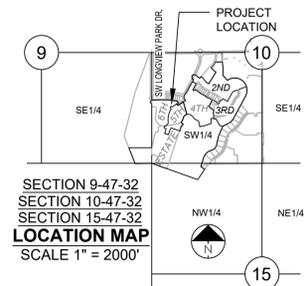
LOT TYPE TABLE

LOT #	BASEMENT TYPE
134	STANDARD
135	STANDARD
136	STANDARD
137	STANDARD
138	STANDARD
139	STANDARD
140	STANDARD
141	STANDARD
142	STANDARD
143	STANDARD
144	STANDARD
145	STANDARD

DRAINAGE NOTE:
INDIVIDUAL LOT OWNER(S) SHALL NOT CHANGE OR OBSTRUCT THE DRAINAGE FLOW LINES ON THE LOTS INCLUDED IN THE MASTER DRAINAGE PLAN, UNLESS SPECIFIC APPLICATION IS MADE AND APPROVED BY THE CITY ENGINEER.

NOTE:
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- (thick solid line) DENOTES PROPOSED MAJOR CONTOUR
- (thin solid line) DENOTES PROPOSED MINOR CONTOUR
- - - (dashed line) DENOTES EXISTING MAJOR CONTOUR
- - - (dotted line) DENOTES EXISTING MINOR CONTOUR



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**PERGOLA PARK 6TH PLAT
STREET, STORMWATER, MASTER DRAINAGE
PLAN
--- LEE'S SUMMIT, MISSOURI**

REVISION	DATE	DESCRIPTION
1	11-8-24	CITY COMMENTS

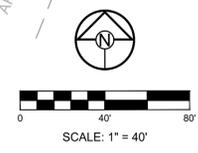
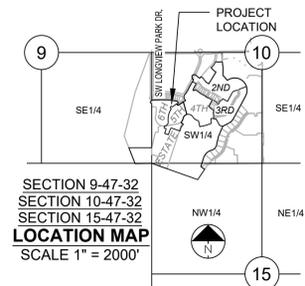
DRAWN BY: BAL
CHECKED BY: MAB
DATE PREPARED: 8-19-24
PROJ. NUMBER: 24-041

MASTER DRAINAGE PLAN - LOT INFO

SHEET **4**



- PROPOSED DRAINAGE
- EXISTING DRAINAGE
- FUTURE DRAINAGE



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PERGOLA PARK 6TH PLAT
STREET, STORMWATER, MASTER DRAINAGE
PLAN
 ---- LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
11-8-24	CITY COMMENTS

DRAWN BY: BAL
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GUTTER SPREAD AND INLET CAPACITY CALCULATIONS - LUMBERMAN'S ROW

DESIGN STORM "K" FACTOR 10
 CURB TYPE "A" = LAZY BACK
 CURB TYPE "B" = HIGH BACK

RUNOFF CALCULATIONS											INLET DESIGN				GUTTER DESIGN							
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	INLET INTERCEPTION	BYPASS TO DOWNSTREAM INLET	STREET GRADE	STREET CROSS SLOPE	DEPTH AT CURB	SPREAD OF FLOW
EXISTING LINE 400																						
401	0.66	2.40	5	7.35	11.64	801	802	803		0.79	12.43	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				0.02	0.21	3.24	2.08	A	8	4.8	0.20	0.00	3.24	2.08	0.06	3.48
403	0.66	0.07	5	7.35	0.34	404				0.01	0.35	3.24	2.08	A	8	4.8	0.33	0.02	3.24	2.08	0.06	4.12
404	0.66	0.06	5	7.35	0.29					0.00	0.29	3.24	2.08	A	8	4.8	0.28	0.01	3.24	2.08	0.07	3.88
EXISTING LINE 500																						
501	0.66	1.06	5	7.35	5.14	402	502			1.09	6.24	SUMP	2.08	A	6	4.8	13.44	0.00	SUMP	2.08	< 0.21	< 10.50
502	0.66	0.57	5	7.35	2.77	804	503	806	901	0.84	3.61	1.95	2.08	A	6	4.8	2.52	1.09	1.95	2.08	0.20	10.05
503	0.66	0.26	5	7.35	1.26	504				0.33	1.59	1.49	2.08	A	4	3.2	1.33	0.26	1.49	2.08	0.15	7.89
504	0.66	0.29	5	7.35	1.41	505				0.40	1.81	1.49	2.08	A	4	3.2	1.48	0.33	1.49	2.08	0.16	8.25
505	0.66	0.33	5	7.35	1.60	506				0.41	2.01	1.49	2.08	A	4	3.2	1.61	0.40	1.49	2.08	0.17	8.57
506	0.66	0.29	5	7.35	1.41	507				0.63	2.03	1.49	2.08	A	4	3.2	1.63	0.41	1.49	2.08	0.17	8.60
507	0.66	0.58	5	7.35	2.81					0.00	2.81	1.13	2.08	A	4	3.2	2.19	0.63	1.13	2.08	0.20	10.14
EXISTING LINE 800																						
801	0.51	0.29	5	7.35	1.09	1601	1801			0.25	1.34	1.12	2.08	A	6	4.8	1.25	0.08	1.12	2.08	0.15	7.80
802	0.51	0.51	5	7.35	1.91	1701				0.12	2.04	1.12	2.08	A	6	4.8	1.82	0.21	1.12	2.08	0.18	9.05
803	0.66	0.12	5	7.35	0.58	1101				1.61	2.19	3.00	2.08	A	8	4.8	1.70	0.49	3.00	2.08	0.15	7.81
804	0.66	0.22	5	7.35	1.07	1301	1201			0.67	1.74	3.00	2.08	A	8	4.8	1.43	0.31	3.00	2.08	0.14	7.20
805	0.66	0.12	5	7.35	0.58					0.00	0.58	3.00	2.08	A	6	4.8	0.55	0.03	3.00	2.08	0.09	4.94
806	0.66	0.40	5	7.35	1.94	807				0.23	2.17	1.28	2.08	A	6	4.8	1.90	0.27	1.28	2.08	0.18	9.04
807	0.66	0.40	5	7.35	1.94	808				0.07	2.01	1.28	2.08	A	6	4.8	1.78	0.23	1.28	2.08	0.17	8.80
808	0.66	0.19	5	7.35	0.92	809				0.24	1.16	1.28	2.08	A	6	4.8	1.09	0.07	1.28	2.08	0.14	7.25
809	0.66	0.32	5	7.35	1.55					0.00	1.55	2.75	2.08	A	6	4.8	1.32	0.24	2.75	2.08	0.14	7.03
810	0.66	0.21	5	7.35	1.02	1106				0.00	1.02	2.75	2.08	A	6	4.8	0.92	0.10	2.75	2.08	0.12	6.08
811	0.66	2.32	5	7.35	11.25	810				0.10	11.35	SUMP	2.08	A	6	4.8	16.80	0.00	SUMP	2.08	< 0.21	< 10.50
812	0.66	0.13	5	7.35	0.63					0.00	0.63	SUMP	2.08	A	6	4.8	16.80	0.00	SUMP	2.08	< 0.21	< 10.50
EXISTING LINE 1000																						
1001	0.66	0.31	5	7.35	1.50					0.00	1.50	1.28	2.08	A	6	4.8	1.38	0.12	1.28	2.08	0.15	7.94
PROPOSED 6TH PLAT																						
LINE 1100																						
1101	0.66	0.55	5	7.35	2.67	1102				0.77	3.44	6.02	2.08	A	6	4.8	1.83	1.61	6.02	2.08	0.16	8.09
1102	0.66	0.34	5	7.35	1.85	1103				0.59	2.24	6.02	2.08	A	6	4.8	1.47	0.77	6.02	2.08	0.13	6.97
1103	0.66	0.56	5	7.35	2.72	1104				0.15	2.87	1.80	2.08	A	8	4.8	2.28	0.59	1.80	2.08	0.19	9.40
1104	0.66	0.30	5	7.35	1.46	1105				0.01	1.46	1.80	2.08	A	6	4.8	1.31	0.15	1.80	2.08	0.14	7.41
1105	0.66	0.09	5	7.35	0.44					0.00	0.44	1.50	2.08	A	6	4.8	0.43	0.01	1.50	2.08	0.09	5.04
1106	0.66	0.07	5	7.35	0.34					0.00	0.34	1.50	2.08	A	6	4.8	0.34	0.00	1.50	2.08	0.09	4.64
LINE 1200																						
1201	0.66	0.35	5	7.35	1.70	1202				0.49	2.19	2.45	2.08	A	4	3.2	1.64	0.55	2.45	2.08	0.16	8.08
1202	0.66	0.38	5	7.35	1.84	1203				0.20	2.05	2.45	2.08	A	4	3.2	1.56	0.49	2.45	2.08	0.15	7.90
1203	0.66	0.25	5	7.35	1.21	1204				0.07	1.28	2.45	2.08	A	4	3.2	1.08	0.20	2.45	2.08	0.13	6.71
1204	0.66	0.15	5	7.35	0.73					0.00	0.73	2.45	2.08	A	4	3.2	0.66	0.07	2.45	2.08	0.10	5.52
LINE 1300																						
1301	0.66	0.17	5	7.35	0.82	1401				0.03	0.86	6.02	2.08	A	6	4.8	0.73	0.12	6.02	2.08	0.09	5.01
FUTURE STORM																						
FUTURE LINE 1400																						
1401	0.66	0.15	5	7.35	0.73	1501				0.01	0.74	1.80	2.08	A	6	4.8	0.70	0.03	1.80	2.08	0.11	5.84
FUTURE LINE 1500																						
1501	0.66	0.09	5	7.35	0.44					0.00	0.44	1.80	2.08	A	6	4.8	0.43	0.01	1.80	2.08	0.09	4.89
EXISTING LINE 1600																						
1601	0.51	0.47	5	7.35	1.76	1701				0.25	2.01	1.12	2.08	A	6	6	1.81	0.21	1.12	2.08	0.18	9.01
1602	0.51	0.84	5	7.35	3.15	1603				1.47	4.62	1.12	2.08	A	6	6	3.53	1.09	1.12	2.08	0.24	12.13
1603	0.51	1.22	5	7.35	4.57	1604				0.85	5.43	1.12	2.08	A	6	6	3.95	1.47	1.12	2.08	0.26	12.85
1604	0.51	0.96	5	7.35	3.60	1605				0.47	4.07	1.12	2.08	A	6	6	3.21	0.85	1.12	2.08	0.23	11.58
1605	0.51	0.80	5	7.35	3.00					0.00	3.00	1.12	2.08	A	6	6	2.53	0.47	1.12	2.08	0.21	10.39
EXISTING LINE 1700																						
1701	0.51	0.59	5	7.35	2.21					0.00	2.21	1.12	2.08	A	6	6	1.96	0.25	1.12	2.08	0.18	9.32
EXISTING LINE 1800																						
1801	0.51	0.20	5	7.35	0.75	1801				0.21	0.96	1.12	2.08	A	6	6	0.92	0.04	1.12	2.08	0.13	6.94
1802	0.51	0.86	5	7.35	3.22	1802				1.09	4.31	1.12	2.08	A	6	6	3.36	0.96	1.12	2.08	0.24	11.83
1803	0.51	0.51	5	7.35	1.91	1802				0.96	2.87	1.12	2.08	A	6	6	2.44	0.43	1.12	2.08	0.20	10.22

- 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

PREPARED BY:



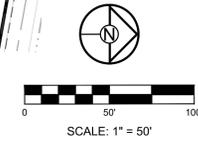
11.12.2024

SCHLAGEL & ASSOCIATES, P.A.

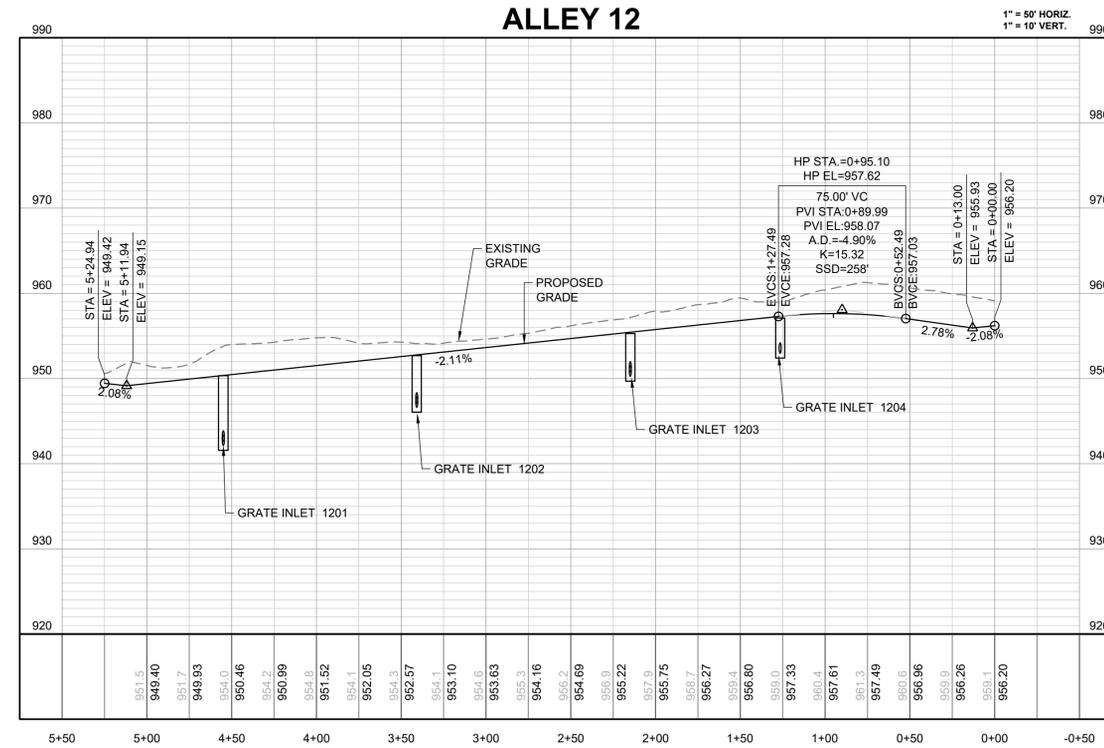
PERGOLA PARK 6TH PLAT
 STREET, STORMWATER, MASTER DRAINAGE
 PLAN
 ---- LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
11-8-24	CITY COMMENTS

MASTER DRAINAGE PLAN - DRAINAGE CALCS CONT.



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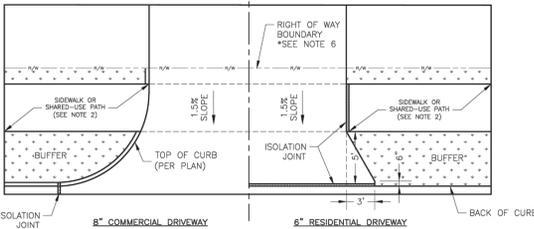


PERGOLA PARK 6TH PLAT
 STREET, STORMWATER, MASTER DRAINAGE
 PLAN
 --- LEE'S SUMMIT, MISSOURI

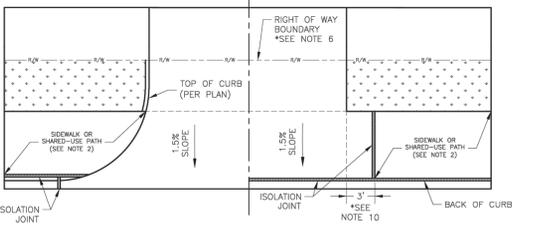
REVISION DATE	DESCRIPTION
11-8-24	CITY COMMENTS

DRAWN BY: BAL	CHECKED BY: MAB	DATE PREPARED: 8-19-24	PROJ. NUMBER: 24-041
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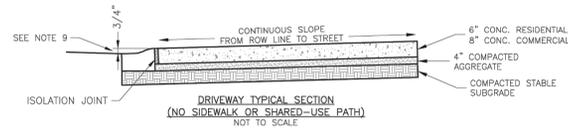
ALLEY 12 PLAN & PROFILE



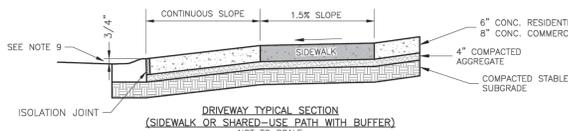
DRIVEWAY WITH BUFFER
NOT TO SCALE



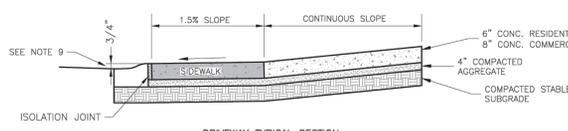
DRIVEWAY WITHOUT BUFFER
NOT TO SCALE



DRIVEWAY TYPICAL SECTION
(NO SIDEWALK OR SHARED-USE PATH)
NOT TO SCALE



DRIVEWAY TYPICAL SECTION
(SIDEWALK OR SHARED-USE PATH WITH BUFFER)
NOT TO SCALE



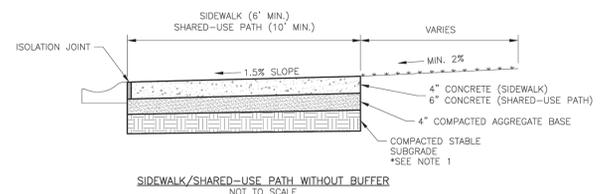
DRIVEWAY TYPICAL SECTION
(SIDEWALK OR SHARED-USE PATH WITHOUT BUFFER)
NOT TO SCALE

- GENERAL NOTES**
- SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
 - ALL DRIVE APPROACHES SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG) FOR SLOPE REQUIREMENTS WHEN SIDEWALK IS REQUIRED (SEE ADA RAMP RETROFIT DETAIL GEN-3B, SIDEWALK/SHARED USE PATH RAMP AT DRIVEWAY DETAIL).
 - JOINT AT BACK OF CURB LINE SHALL BE AN ISOLATION JOINT FOR RESIDENTIAL DRIVEWAYS.
 - KCMBB 4K CONCRETE MIX IS REQUIRED FOR ALL CURBS.
 - COMMERCIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, SHALL BE KCMBB 4K CONCRETE MIX.
 - RESIDENTIAL DRIVEWAYS, IN THE PUBLIC RIGHT OF WAY, KCMBB 4K CONCRETE MIX IS RECOMMENDED. OTHER CONCRETE MIXES NEED TO BE APPROVED BY CITY INSPECTOR.
 - A JOINT MUST BE INSTALLED AT THE RIGHT OF WAY BOUNDARY FOR PROPERTY DELINEATION.
 - WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.
 - 3/4" FROM TOP OF CURB TO FLOWLINE AT DRIVEWAY (TYPE CG-1 CURB ONLY), MUST MAINTAIN ORIGINAL FLOWLINE OF CURB.
 - SIDEWALK ADJOINING CURB SHALL BE 6" THICK, EXTENDING 3' FROM THE DRIVEWAY.
 - THE MAXIMUM WIDTH OF A RESIDENTIAL DRIVEWAY IS 36 FEET WITHIN THE RIGHT OF WAY.

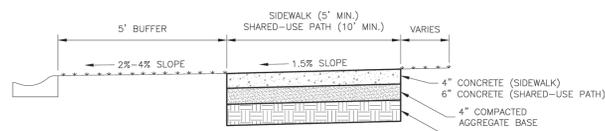
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64083

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
DRIVEWAY DETAIL

Drawn By: MIF
Checked By: DL
Date: 05/2021
Proj. #: GEN-1



SIDEWALK/SHARED-USE PATH WITHOUT BUFFER
NOT TO SCALE



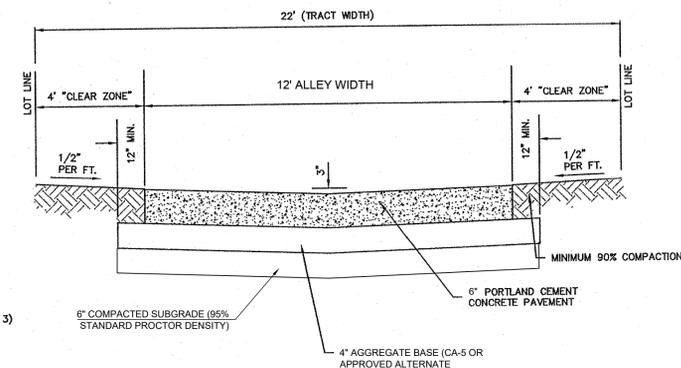
SIDEWALK/SHARED-USE PATH WITH BUFFER
NOT TO SCALE

- GENERAL NOTES:**
- SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
 - 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
 - KCMBB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS/SHARED-USE PATHS.
 - ALL SIDEWALK/SHARED-USE PATHS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
 - AN ISOLATION JOINT SHALL BE PLACED AT A MAXIMUM OF 100 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF SIDEWALK/SHARED-USE PATHS, BUT NO GREATER THAN 10 FT.
 - AN ISOLATION JOINT SHALL BE PLACED WHERE THE SIDEWALK/SHARED-USE PATHS MEETS A RESIDENTIAL DRIVEWAY.
 - SHARED-USE PATHS WIDTH SHALL BE 10 FT. WIDE.
 - SIDEWALK/SHARED-USE PATHS FINISHING SHALL BE FULL BROOM FINISH OR AS DIRECTED BY CITY INSPECTOR.
 - WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64083
SIDEWALK/SHARED-USE PATH DETAIL

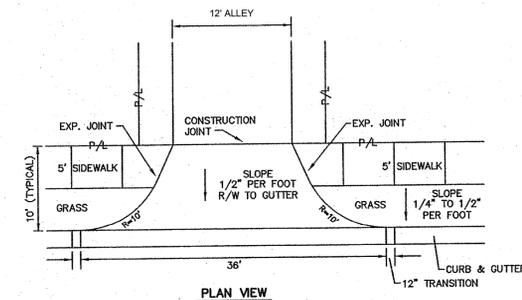
Date: 05/2021
Drawn By: MIF
Checked By: DL

GEN-2

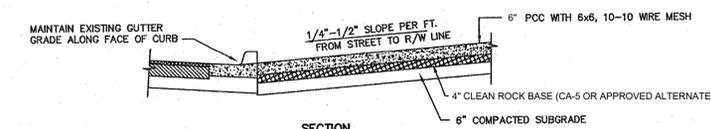


TYPICAL ALLEY SECTION

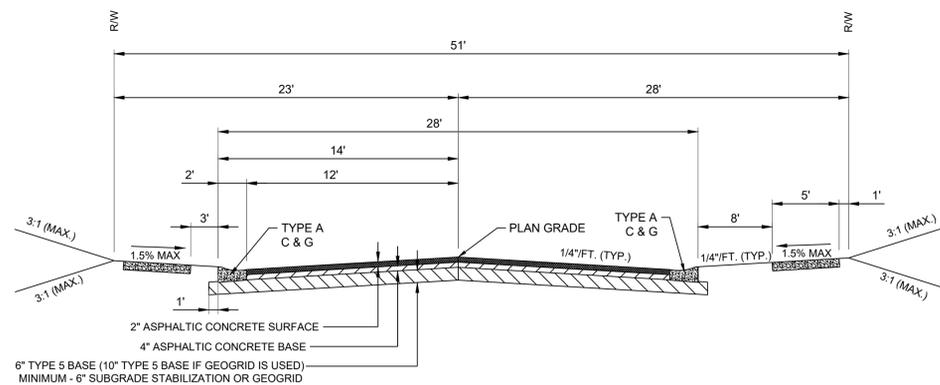
- NOTES**
- COMPACTION JOINTS TO BE SAWS AT INTERVALS OF 20 FEET MAXIMUM. JOINTS SHALL BE FILLED WITH BITUMINOUS COMPOUND IMMEDIATELY FOLLOWING SAWING.
 - DOWELED EXPANSION JOINTS SHALL BE LOCATED EVERY 100 FEET MAXIMUM.
 - REINFORCE CONCRETE WITH 6x6x6 WOVEN WIRE MESH.
 - USE ADDITIONAL REINFORCEMENT AROUND DRAINAGE STRUCTURES AS NECESSARY.



PLAN VIEW



ALLEY APRON

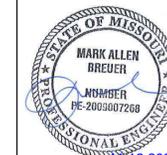


6" TYPE 5 BASE (10" TYPE 5 BASE IF GEOGRID IS USED)
MINIMUM - 6" SUBGRADE STABILIZATION OR GEOGRID

STALLION WAY 28' B/B STA. 0+63 TO 1+74
NTS

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PREPARED BY:



11.12.2024

SCHLAGEL & ASSOCIATES, P.A.

PERGOLA PARK 6TH PLAT
STREET, STORMWATER, MASTER DRAINAGE
PLAN
--- LEE'S SUMMIT, MISSOURI

REVISION DATE	DESCRIPTION
11-8-24	CITY COMMENTS

STREET DETAILS

SHEET
14

