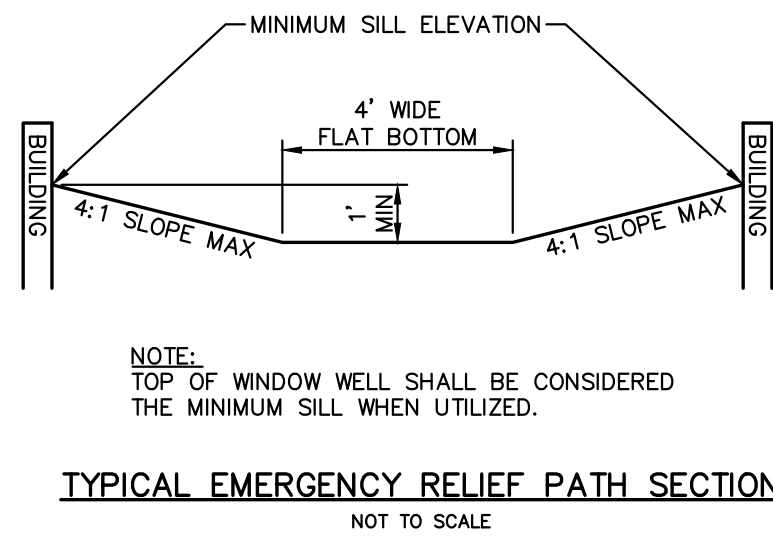
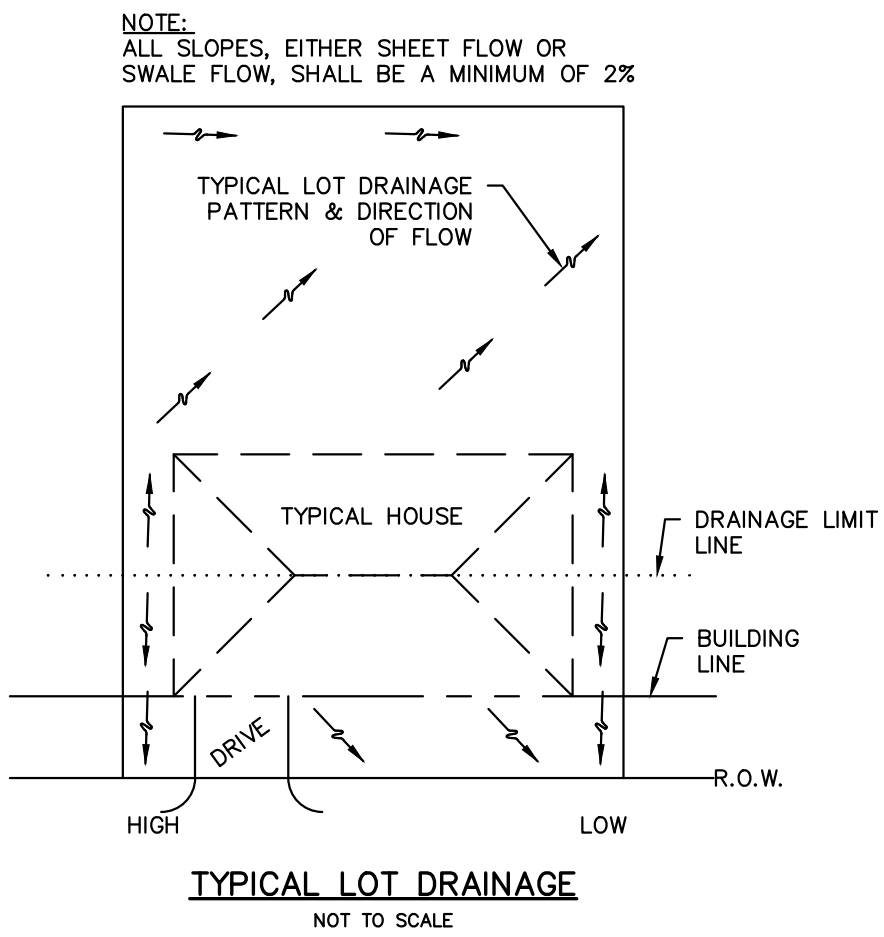
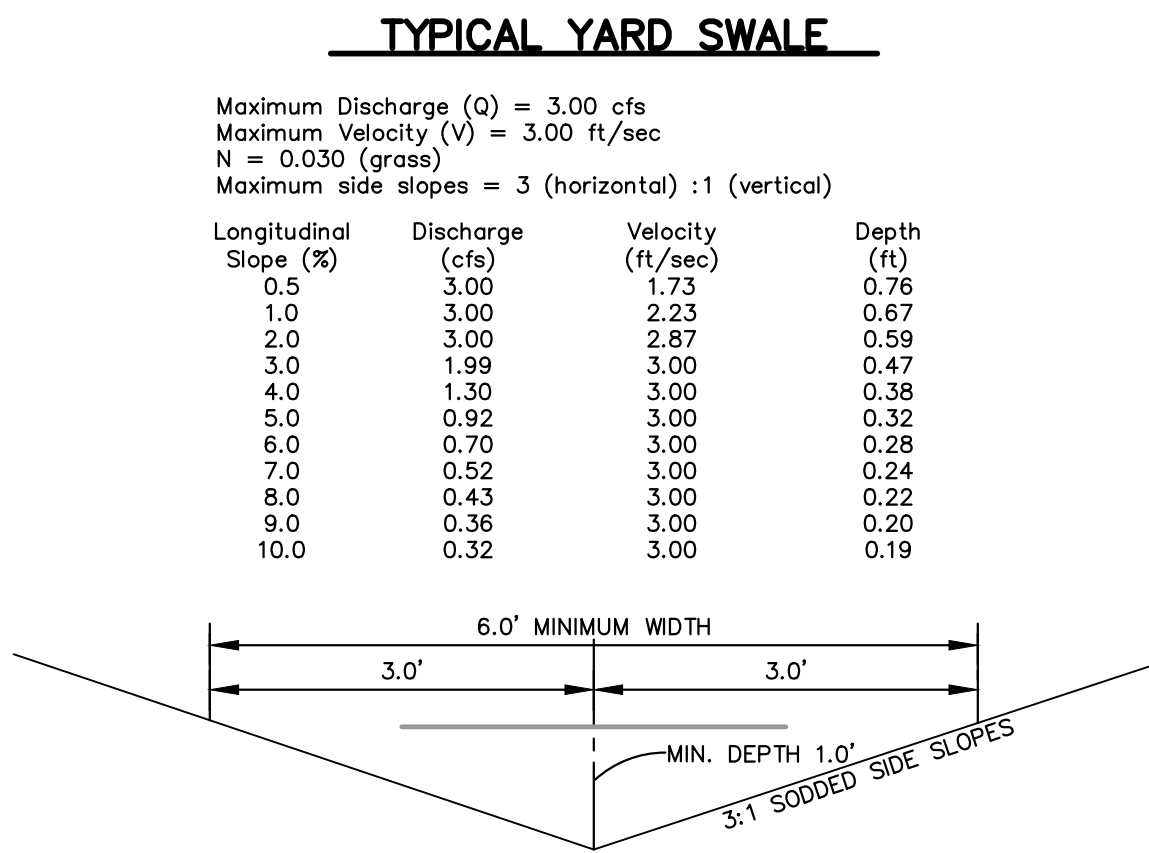


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Drawing name: V:\20080927 Highway N Assemblies\Drawings\Engineering\Improvements\8827 IMP DETAILS.dwg, Plotted on: 5/6/24, 2:05 - 8:27am, Plotted by: jlukenhaus

DEVELOPER SHALL PROVIDE TEMPORARY SIGNS AT THE RIGHT-OF-WAY DESIGNATING THE LOCATION OF THE EMERGENCY RELIEF SWALES. THESE SIGNS SHALL BE POSTED PRIOR TO CONSTRUCTION OF THE HOUSES (SIMILAR TO LOT NUMBER SIGNS) AND REMAIN IN PLACE UNTIL THE HOUSE AND EMERGENCY SWALE IS BUILT.



ISSUE REMARKS/DATE	
1	2024-08-13, INITIAL SUBMITTAL CITY PH.2
2	2024-11-08, REVISED PER CITY COMMENTS
3	2024-01-03, REVISED PER CITY COMMENTS
4	2024-02-04, REVISED PER CITY COMMENTS

PROJECT TITLE

HARVEST
AT HOPEWELL

O'Fallon, Missouri

O'FALLON PHASE 2

THE **STERLING** CO.
ENGINEERS & SURVEYORS

5055 New Baumgartner Road
St. Louis, Missouri 63129
Ph 314-487-0440 Fax 314-487-8944
www.sterling-eng-sur.com
Corporate Certificate of Authority #001348

The Professional Engineer's seal and signature affirm that the design complies with the applicable laws and codes in this state. All drawings, documents or other documents not bearing this seal and signature shall not be considered official and the engineer assumes no responsibility for such errors. Design documents not bearing this seal and signature.



Date: 02-04-2025
Michael G. Boerding
License No. MO E-28643
Professional Engineer

HARVEST HOPEWELL, LLC
5091 New Baumgartner Road
St. Louis, Missouri 63129

EMERGENCY RELIEF PATH DETAILS

P+Z No. 21-004994
City No. 21-011444
Date: 02-04-2025
Job No. 20-09-327

Page No.

DTL-12

IMP

HARVEST AT HOPEWELL EMERGENCY RELIEF PATH CALCULATIONS - CITY PHASE 2												
E.R.P.	Structure	Swale Type	Bottom Width	Drainage Areas	ERP FL	Total 100 YR Q	100 YR Water Depth in Swale at high	100 YR Water Elev.	MLS Elevation	Window Wells Required	100YR,20MIN HGL Stays within System	Notes
Lot 437E	AI L46	Side Yard	4	191	620.9	3.52	0.28	621.18	Lot 437E 622.2	NO	YES	
Lot 447D	AI L57	Side Yard	4	180, 181	632.0	5.86	0.36	632.36	Lot 447D 633.4	YES	YES	
Lot 474D/475D	DCI P24	Street Inlet	4	247, 248, 249, 250, 251, 252, 260	615.5	15.05	0.60	616.10	Min. Gar. 617.1	n/a	YES	
Lot 482D	AI P38	Side Yard	4	247, 248	625.7	1.51	0.17	625.87	Lot 482D 626.9	YES	YES	
Lot 496D	AI L52	Side Yard	4	184, 185, 186	619.0	5.13	0.34	619.34	Lot 496D 620.4	NO	YES	
Lot 510D	AI P20	Side Yard	4	263, 264	617.1	3.81	0.29	617.39	Lot 510D 618.4	NO	YES	
Lot 530E	AI N16	Side Yard	4	238	596.5	0.82	0.12	596.62	Lot 530E 597.7	NO	YES	
Lot 736F/737F	DCI N7	Street Inlet	4	245	590.0	6.45	0.38	590.38	Min. Gar. 591.4	n/a	YES	
Lot 769F/770F	CI H10	Street Inlet	4	135	630.6	3.85	0.29	630.89	Min. Gar. 631.9	n/a	YES	
Lot 776F	AI K17	Side Yard	4	153, 154, 155	627.8	6.84	0.40	628.20	Lot 776F 629.2	YES	YES	
Lot 805E/Lot 806E	DCI P26	Street Inlet	4	258, 261, 262, 263, 264, 265, 266, 267, 268	614.9	19.07	0.50	615.40	Min. Gar. 616.4	n/a	YES	Swale 8' wide at ROW reduced to 4' wide at Building Line
Lot 815E/Lot 816E	CI L42	Street Inlet	8	180, 181, 182, 183, 184, 185, 186, 187, 188, 188.1, 189, 190, 191, 192, 193, 194, 195	618.6	31.32	0.54	619.14	Min. Gar. 620.2	na/	YES	Swale 12' wide at ROW reduced to 4' wide at Building Line
Lot 843G/844G	DCI L5	Street Inlet	4	208, 209, 216, 221	603.0	10.31	0.49	603.49	Min. Gar. 604.5	n/a	YES	
Lot 852G/853G	CI L79	Street Inlet	4	156, 157, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 212, 212.1, 213, 214, 215	623.3	30.37	0.53	623.83	Min. Gar. 624.9	n/a	YES	Swale 12' wide at ROW reduced to 4' wide at Building Line
Lot 859G	AI L76	Rear Yard	4	156, 157, 158, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 212, 212.1, 213, 214, 215	605.1	37.12	0.94	606.04	Lot 859G 607.1	YES	YES	
Lot 860G/861G	DCI L90	Street Inlet	4	148, 159	606.3	6.50	0.39	606.69	Min. Gar. 607.7	n/a	YES	
Lot 867G/868G	DCI K7	Street Inlet	4	148A, 228	598.3	7.52	0.42	598.72	Min. Gar. 599.8	n/a	YES	
Lot 889G	AI L82	Side Yard	4	160, 161, 162, 163, 164, 165, 166	623.5	12.86	0.55	624.05	Lot 888G 625.6 / Lot 889G 625.6	Lot 889G YES	YES	
Lot 888G/Lot 889G	AI L81	Side Yard	4	160, 161, 162, 163, 164, 165, 166, 167	624.0	13.21	0.56	624.56	Lot 888G 625.6 / Lot 889G 625.6	Lot 889G YES	YES	