Application for Architectural Review Board

**** This application must be filled out completely and signed before submittals are placed on the ARB agenda.***

The purpose of Architectural Review Board shall be to two-fold; to develop architectural and design guidelines for the City of Ladue in accordance with section 110-70 and to apply those guidelines in reviewing projects within the City as to whether or not the project adheres to such guidelines.

APPLICANT INFORMATION

Name of Applicant: Schaub Projects Architecture+Design

Phone #: (314) 626-4555

Email address of Applicant (for review comments): djs@schaubprojects.com

PROJECT PROPERTY INFORMATION

Address for proposed work: 9801 Log Cabin Court

If this ARB application is amending a project that is currently under construction, list permit #: _____

Zoning District: A Sq. Footage of improvements: 24,422

DESCRIPTION OF PROPOSED PROJECT: New two-story, single-family residence

Additional Information:

- Professionally sealed plans are not required for ARB review.
- Plans for projects involving alterations and repairs, which do not affect the outward appearance of a building, and existing decks, fences, window replacements and roofing shingle replacements shall not require approval of the Architectural Review Board.
- Revised plans with any changes predicated by the ARB will need to be submitted with the building permit application to the Department of Planning and Development with final trustee approval (if applicable.)
- Projects approved by ARB should be submitted for building permits within 180 days or the ARB approval may become void.

By signing this application, you acknowledge that by submitting an incomplete application, your petition will not be added to the meeting agenda.

X _____ Date: 12/11/25

** This application and review for City of Ladue building permitted purposes only. Please be aware of any additional covenants and indentures which may be recorded with your subdivision. Approval of this ARB proposal does not waive any other permit or other authorization by the City that may be required for you to fully complete your proposed project.*

Architectural Review Board Checklist

Please initial all items below to verify that your submittal includes all requirements:

The following items shall be submitted via email to aquinn@cityofladue-mo.gov by 11:00 am, no later than 7 days prior to the regularly scheduled meeting.

Your combined PDF should contain the following:

DJS_____ Signatures of Subdivision trustees if home is part of an HOA (If in question, please check with the building department to verify before submitting). These signatures can be on the digital plans OR you can submit one signed hard copy to our offices. **If these are not included, your project will not be placed on the agenda until that is obtained.**

DJS_____ Completed ARB application

DJS_____ Schematic site plan at a scale of not less than one-inch equals 20 feet including the following:

- Dimensioned property lines,
- Building setback lines,
- Easements identified,
- Existing and proposed area of work,
- Location of driveways and parking areas,
- Topographic contours of the existing grades and proposed finished grades at two-foot interval minimums for a distance 25 feet from the face of the existing and proposed area of work with an indication of direction of flow of storm water. (For new residence and home additions only)
- Location of proposed landscape material (New residence only)
- Landscape material proposed to be removed (New residence only), and
- Identifying any accessory structures proposed or existing.
- Hardscape and greenspace coverage calculations for existing and proposed front, rear, side and overall lot.

DJS_____ Schematic floor plans (at a minimum scale of one-quarter inch equals one foot) showing overall building dimensions. Plans may be printed in half-size.

DJS_____ Building elevations (at a minimum scale of one-quarter inch equals one foot) showing vertical dimensions, fenestration, proposed materials and colors, and any existing construction where an addition or modification is proposed. All existing and proposed building materials shall be indicated on the existing building elevations. Plans may be printed in half-size

DJS_____ Color photographs of the main building located on adjoining property. Color photographs of all building elevations of existing structures for projects involving remodeling or additions.

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proposed custom residence for

9801 Log Cabin Court

Ladue, Missouri

63124

ARCHITECTURAL REVIEW BOARD

City of Ladue, Missouri

architect of record

SCHAUB PROJECTS
ARCHITECTURE + DESIGN

314.626.4555

schaubprojects.com

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M.E.P. ENGINEER

A New Single Family Residence
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Ladue, MO, 63124

Scott Underwood and Marissa Rosser
1745 Horsehoe Ridge Road
Chesterfield, MO 63005

David J Schaub - Architect
A-2010004394

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	Date	Description
1		
	Date	Description

PHASE: Design Development
SHEET TITLE: Title Sheet
DRWN BY: DJS
CHKD BY: XXX
ISSUE DATE: December 11, 2025
TOTAL PAGES IN SET: 10

SHEET NO: G0.1
PROJECT NUMBER: 24-018

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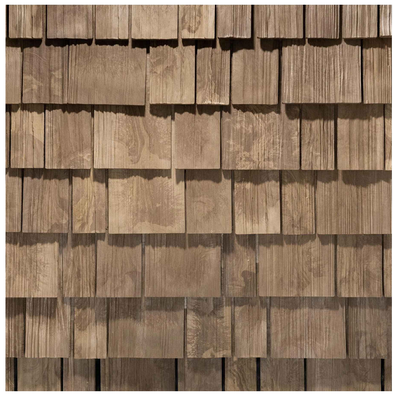
STONE VENEER
Mason Made "Mountain Man"

VERTICAL SIDING, FASCIA, & SOFFIT
Trestlewood "Mushroomwood"



ROOFING - Composite Shake Shingles
Brava Roof Tile "New Cedar"

METAL ROOFING
Western States Metal "Corten AZP Raw"

WOOD ENTRY DOOR
Minwax "Special Walnut"

WOOD GARAGE DOOR
Clopay Reserve Wood Limited Edition
"Butternut 072"

WINDOWS AND EXTERIOR DOORS
Sierra Pacific "Weathered Rust 076"

GUTTERS AND DOWNSPOUTS
Gutter Supply "Dark Bronze"
Half-round, Reverse Bead Aluminum

MATERIALS AND COLORS

preliminary - not for construction

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David J Schaub - Architect
A-2010004394

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	Date	Description
1		
2		
3		
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PHASE: Design Development
SHEET TITLE: Specification
DRWN BY: DJS
CHKD BY: XXX
ISSUE DATE: December 11, 2025
TOTAL PAGES IN SET: 10

SHEET NO: G0.2
PROJECT NUMBER: 24-018

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9807 Log Cabin Court

9810 Log Cabin Court

9815 Log Cabin Court

9821 Log Cabin Court

PHOTOS OF NEIGHBORING PROPERTIES

preliminary - not for construction

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Chesterfield, MO 63005

David J Schaub - Architect
A-2010004594

Date	Description
Date	Description

PHASE: Design Development
SHEET TITLE: Specification
DRWN BY: DJS
CHKD BY: XXX
ISSUE DATE: December 11, 2025
TOTAL PAGES IN SET: 10
SHEET NO: G0.2
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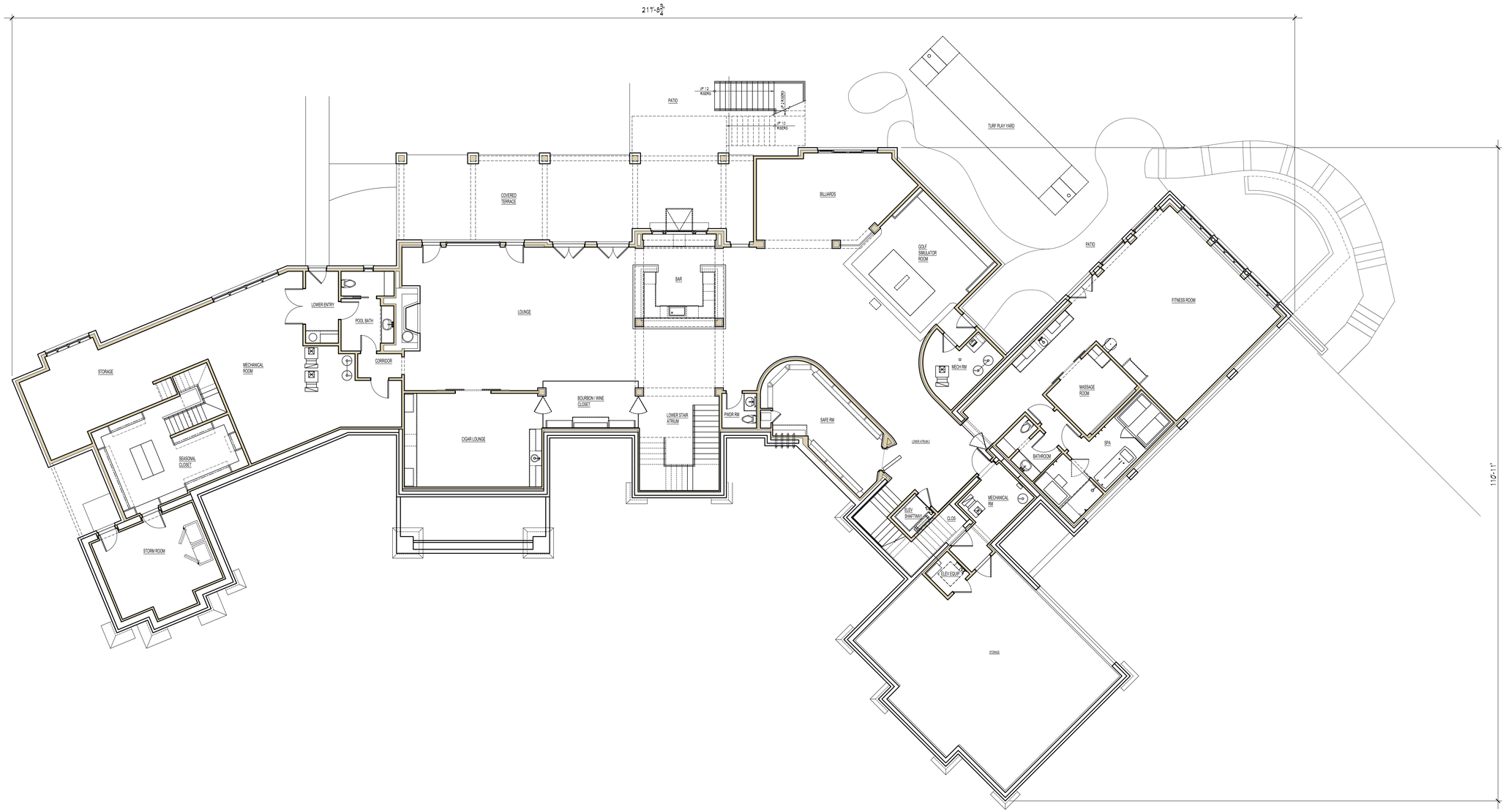

1 FINISHED LOWER LEVEL PLAN

SCALE: 3/16" = 1'-0"

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David J Schaub - Architect
A-2010004594

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NO.	Date	Description
	Date	Description

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PHASE: Design Development
SHEET TITLE: LOWER LEVEL PLAN
DRAWN BY: DJS
CHKD BY: XXX
ISSUE DATE: December 11, 2025
TOTAL PAGES IN SET: 10

SHEET NO: A1.0
PROJECT NUMBER: 24-018

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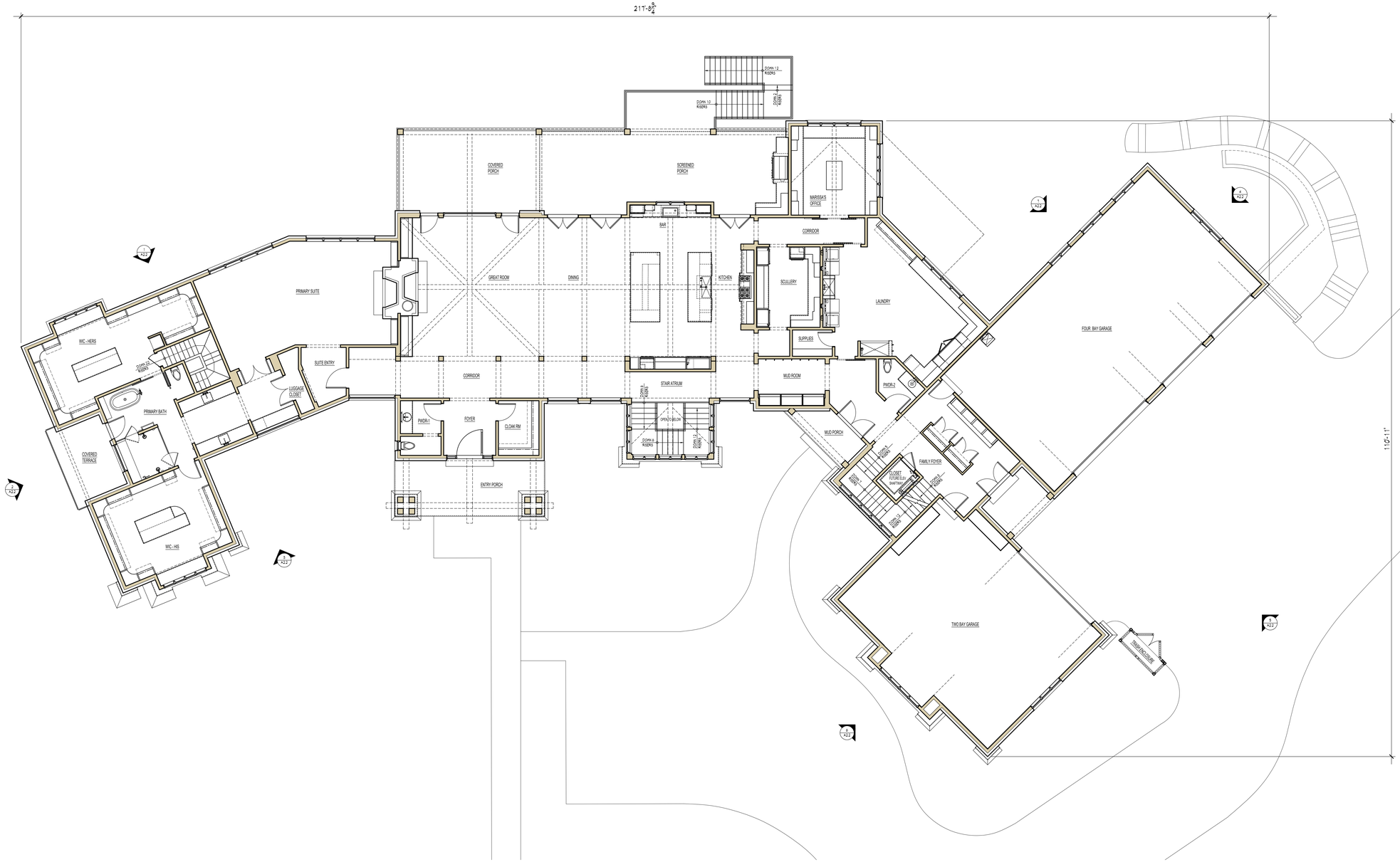

1 FIRST FLOOR PLAN

SCALE: 3/16" = 1'-0"

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	Date
1	Description
	Date
	Description

PHASE: Design Development
SHEET TITLE: First Floor Plan
DRWN BY: DJS
CHKD BY: XXX
ISSUE DATE: December 11, 2025
TOTAL PAGES IN SET: 10

SHEET NO: A1.1
PROJECT NUMBER: 24-018

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1 SECOND FLOOR PLAN

SCALE: 3/16" = 1'-0"

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A-2010004594

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1	Date
	Description
	Date
	Description

PHASE:
Design Development

SHEET TITLE:
Second Floor Plan

DRWN BY: DJS
CHKD BY: XXX

ISSUE DATE:
December 11, 2025

TOTAL PAGES IN SET:
10

SHEET NO:
A1.2

PROJECT NUMBER:
24-018

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12:12
12:12
12:12

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	Date	Description
1		
	Date	Description

PHASE:
Design Development

SHEET TITLE:
Color Rendering

DRWN BY: DJS
CHKD BY: XXX

ISSUE DATE:
December 11, 2025

TOTAL PAGES IN SET:
10

SHEET NO:
A2.0

PROJECT NUMBER:
24-018

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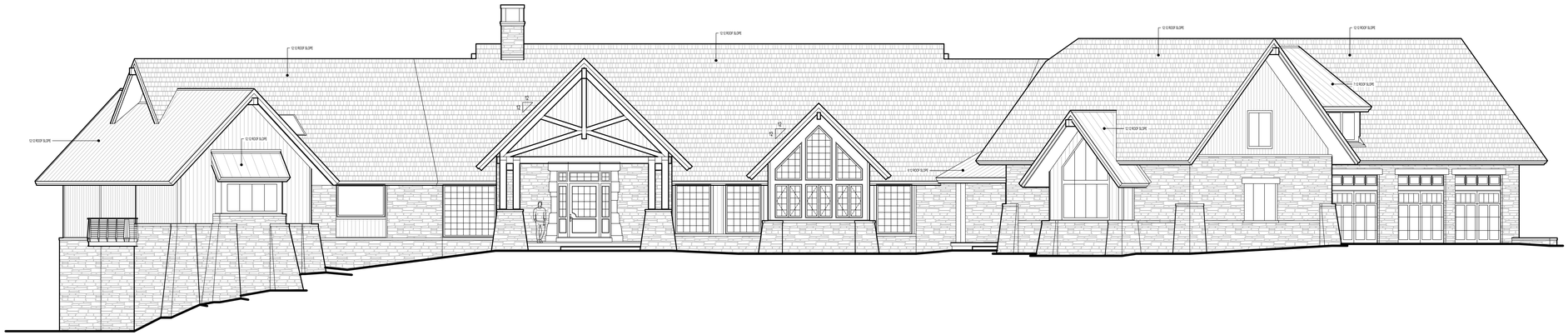
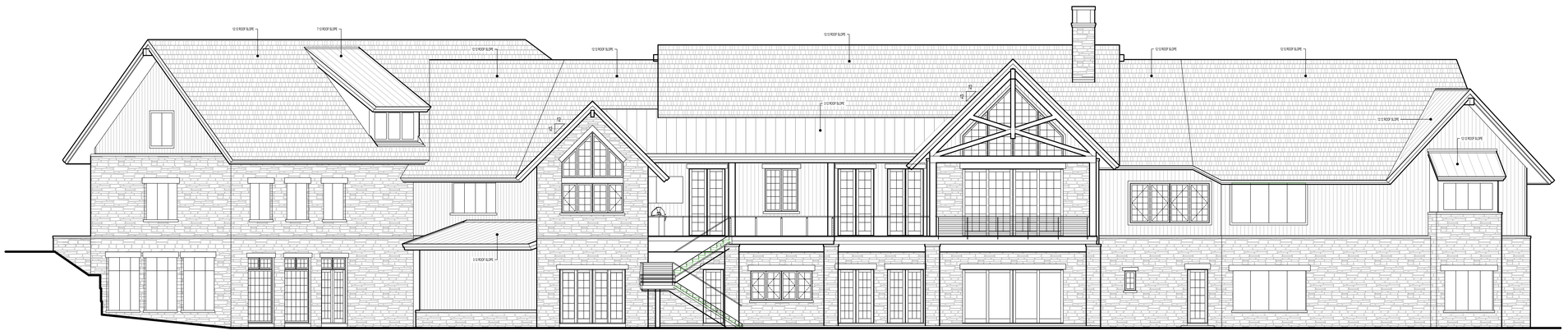


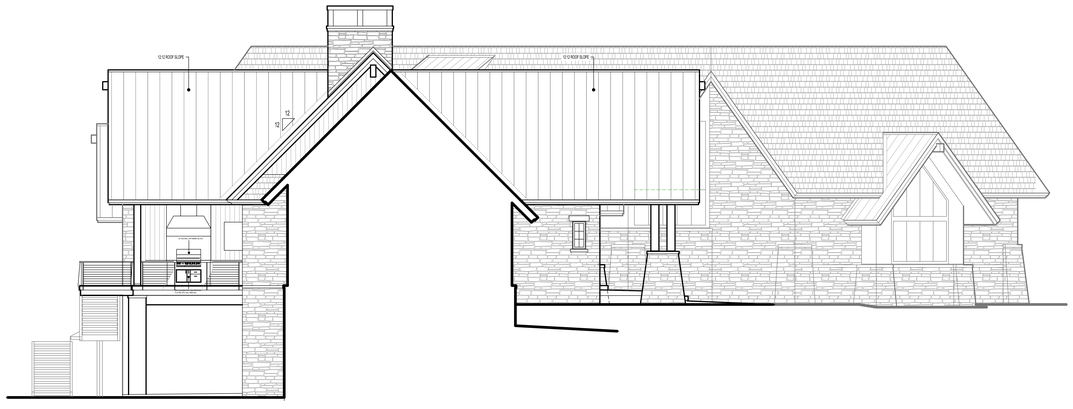
1 FRONT (NORTHWEST) ELEVATION

SCALE: 3/16" = 1'-0"



2 REAR (SOUTHEAST) ELEVATION

SCALE: 3/16" = 1'-0"



4 LEFT SIDE (NORTHEAST) ELEVATION

SCALE: 3/16" = 1'-0"

4 RIGHT SIDE (SOUTHWEST) ELEVATION

SCALE: 3/16" = 1'-0"

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David J Schaub - Architect
A-2010004594

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Mark	Date	Description
	Date	Description

PHASE:
Design Development

SHEET TITLE:
Main Elevations

DRWN BY: DJS
CHKD BY: XXX

ISSUE DATE:
December 11, 2025

TOTAL PAGES IN SET:
10

SHEET NO:
A2.1

PROJECT NUMBER:
24-018

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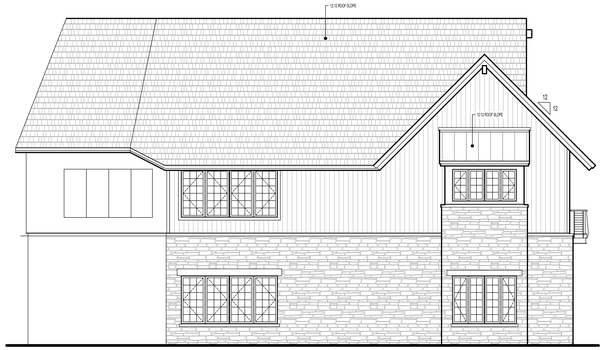
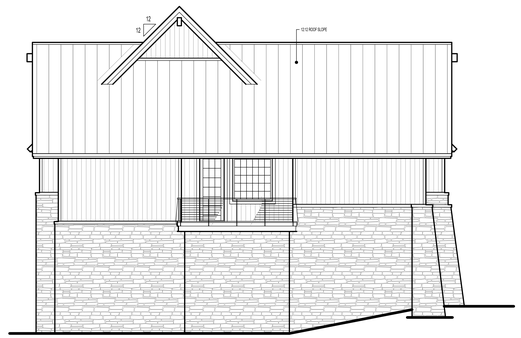


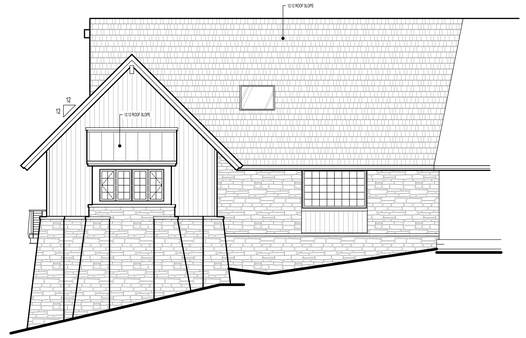
1 REAR SIDE OF PRIMARY BEDROOM WING

SCALE: 3/16" = 1'-0"



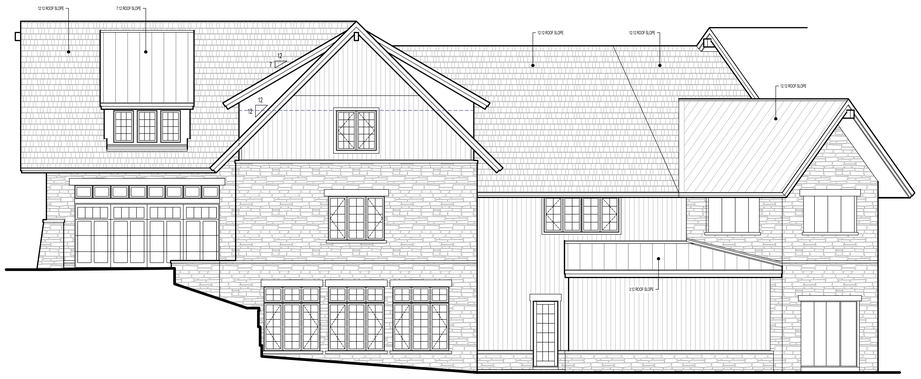
2 LEFT SIDE OF PRIMARY BEDROOM WING

SCALE: 3/16" = 1'-0"



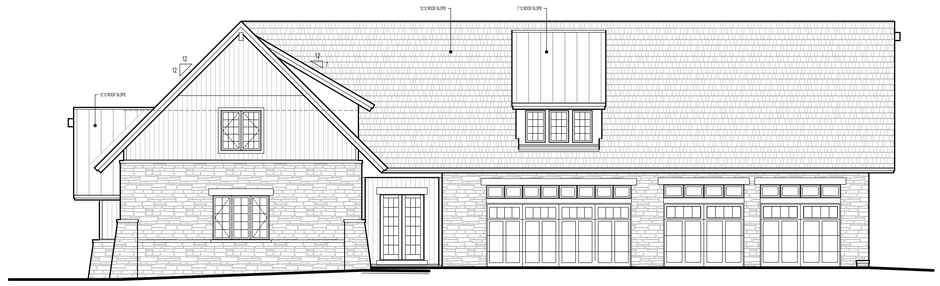
3 FRONT SIDE OF PRIMARY BEDROOM WING

SCALE: 3/16" = 1'-0"



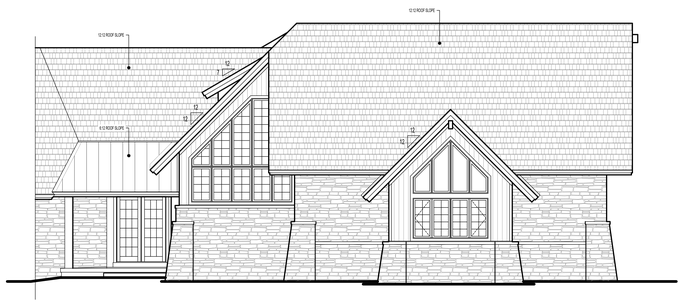
4 RIGHT SIDE OF GARAGE WING

SCALE: 3/16" = 1'-0"



5 FRONT OF GARAGE WING

SCALE: 3/16" = 1'-0"



6 LEFT SIDE OF GARAGE WING

SCALE: 3/16" = 1'-0"

7 REAR OF GARAGE WING

SCALE: 3/16" = 1'-0"

SCHAUB PROJECTS
ARCHITECTURE + DESIGN
6651 Dale Avenue
St. Louis, Missouri
63139
Telephone: 314.626.4555
Schaub Projects Architecture + Design, llc
Missouri Certificate of Authority A-2015002005

CONSULTANTS:

STRUCTURAL ENGINEER
DSK Structural Engineering, LLC
3014 Hamitz Road
St. Louis, Missouri, 63129
Phone: 314.550.8958

CIVIL ENGINEER
Volz Incorporated
12855 Indian Head Industrial Blvd
St. Louis, Missouri 63132
Phone: 314.432.8212

LANDSCAPE ARCHITECT
Landesign
10 Tower Street
Hartford, CT 06103, 63382
Phone: 636.332.4300

M.E.P. ENGINEER

A New Single Family Residence
9801 Login Cabin Court
Ladue, MO, 63124

Scott Underwood and Marissa Rosser
1745 Horseshoe Ridge Road
Chesterfield, MO 63005

preliminary - not for construction

David J Schaub - Architect
A-2010004594

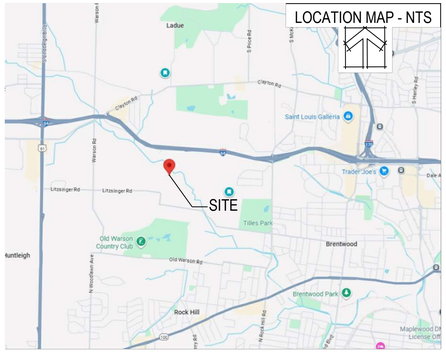
	Date	Description
1		
	Date	Description

PHASE:
Design Development
SHEET TITLE:
Partial Elevations
DRWN BY: DJS
CHKD BY: XXX
ISSUE DATE:
December 11, 2025
TOTAL PAGES IN SET:
10

SHEET NO:
A2.2
PROJECT NUMBER:
24-018

NOTIFY THE ARCHITECT IN EVENTS OF DISCREPANCIES, OMISSIONS, AND / OR CONFLICTS IN THE DRAWINGS OR SPECIFICATIONS. THE CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS IN REFERENCE TO CONTRACT DOCUMENTS SHOULD BE IMMEDIATELY DIRECTED TO THE ARCHITECT.

FULL SIZED DRAWING PRINTS ON 24"X36"



GENERAL NOTES

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22. REFER TO ARCHITECTURAL PLAN FOR ADDITIONAL LAYOUT, GRADING AND SITE DESIGN INFORMATION. WHERE CIVIL ENGINEERING AND ARCHITECTURAL DRAWINGS CONFLICT, THE ARCHITECTURAL SHALL GOVERN. NOTIFY ARCHITECT OF ANY SUCH CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.
23. BOUNDARY SURVEY PERFORMED BY MERIDIAN LAND SURVEYING DURING MAY 2024.
24. TOPOGRAPHIC SURVEY PERFORMED BY VOLZ INCORPORATED DURING DECEMBER 2024.

STANDARD CONSTRUCTION 2023 VERSION:

ALL STORM AND SANITARY SEWER STRUCTURES AND APPURTENANCES TO BE DEDICATED TO MSD, OR TO BE PRIVATE UNDER MSD INSPECTION, SHALL CONFORM TO THE METROPOLITAN ST. LOUIS SEWER DISTRICT, STANDARD CONSTRUCTION SPECIFICATIONS FOR SEWERS AND DRAINAGE FACILITIES, 2023. THAT WILL INCLUDE STANDARD DETAILS SHOWN THEREIN, ALL SUBSEQUENT CHANGES MADE THERETO, AND SHALL ALSO INCLUDE THE FOLLOWING:

PART 2 - MATERIALS OF CONSTRUCTION

SECTION G PIPE

12. CORRUGATED POLYPROPYLENE PIPE

D. PIPE FOR GRAVITY SEWER INSTALLATIONS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321. CONSOLIDATION BY WATER (JETTING OR PUDDLING) SHALL NOT BE USED. CONSOLIDATION SHALL BE IN ACCORDANCE WITH MSD STANDARD CONSTRUCTION SPECIFICATIONS FOR TRENCH BACKFILL. PRICE FOR COMPACTED BACKFILL SHALL BE INCLUDED IN PIPE UNIT COST.

1. FOR USE IN SANITARY AND COMBINED SEWER INSTALLATIONS, A REPRESENTATIVE FROM THE PIPE MANUFACTURER SHALL VISIT THE SITE WITHIN THE FIRST 100 FEET OF PIPE INSTALLATION. COORDINATION OF THIS SITE VISIT SHALL BE ARRANGED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE THE MSD INSPECTOR AT LEAST 24 HOURS' NOTICE OF THE PLANNED DATE AND TIME OF THE MANUFACTURER'S SITE VISIT.

2. FOLLOWING THE SITE VISIT, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A LETTER FROM THE PIPING MANUFACTURER SUMMARIZING THEIR OBSERVATIONS. AT A MINIMUM, THE LETTER SHALL:

a) INDICATE THE DATE THE INITIAL SECTION OF PIPE WAS INSTALLED; AND

b) VERIFY THAT THE INSTALLATION OCCURRED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED PROCEDURES.

E. TRENCH WIDTH SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS. DISTRICT STANDARD PAYLINE WIDTHS BASED ON THE NOMINAL INSIDE PIPE DIAMETER SHALL APPLY.

EXISTING IMPERVIOUS COVERAGE - LOT	
TOTAL LOT AREA	131,195 SF
HOUSE / GARAGES	13,800 SF
DRIVE / WALKS / PATIOS	32,554 SF
TOTAL IMPERVIOUS AREA	46,354 SF
IMPERVIOUS COVERAGE	35.3 %

PROPOSED IMPERVIOUS COVERAGE - LOT	
TOTAL LOT AREA	131,195 SF
HOUSE / PORCHES / POOL	14,483 SF
DRIVE / WALKS / PATIOS	9,939 SF
TOTAL IMPERVIOUS AREA	24,422 SF
IMPERVIOUS COVERAGE	18.6 %
"DIST A" ALLOWED COVERAGE	20.0 %

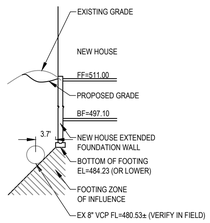
PROPOSED IMPERVIOUS COVERAGE - FRONT YARD	
TOTAL YARD AREA	17,138 SF
NEW PAVEMENT	4,108 SF
TOTAL IMPERVIOUS AREA	4,108 SF
IMPERVIOUS COVERAGE	24.0 %
"DIST A" ALLOWED COVERAGE	30.0 %

PROPOSED IMPERVIOUS COVERAGE - REAR YARD	
TOTAL YARD AREA	65,813 SF
POOL & WALKS (REAR ONLY)	4,432 SF
TOTAL IMPERVIOUS AREA	4,432 SF
IMPERVIOUS COVERAGE	6.7 %
"DIST A" ALLOWED COVERAGE	30.0 %

PROPOSED IMPERVIOUS COVERAGE - NORTH YARD	
TOTAL YARD AREA	57,601 SF
DRIVE / WALK (TBR)	0 SF
TOTAL IMPERVIOUS AREA	0 SF
IMPERVIOUS COVERAGE	0.0 %
"DIST A" ALLOWED COVERAGE	25.0 %

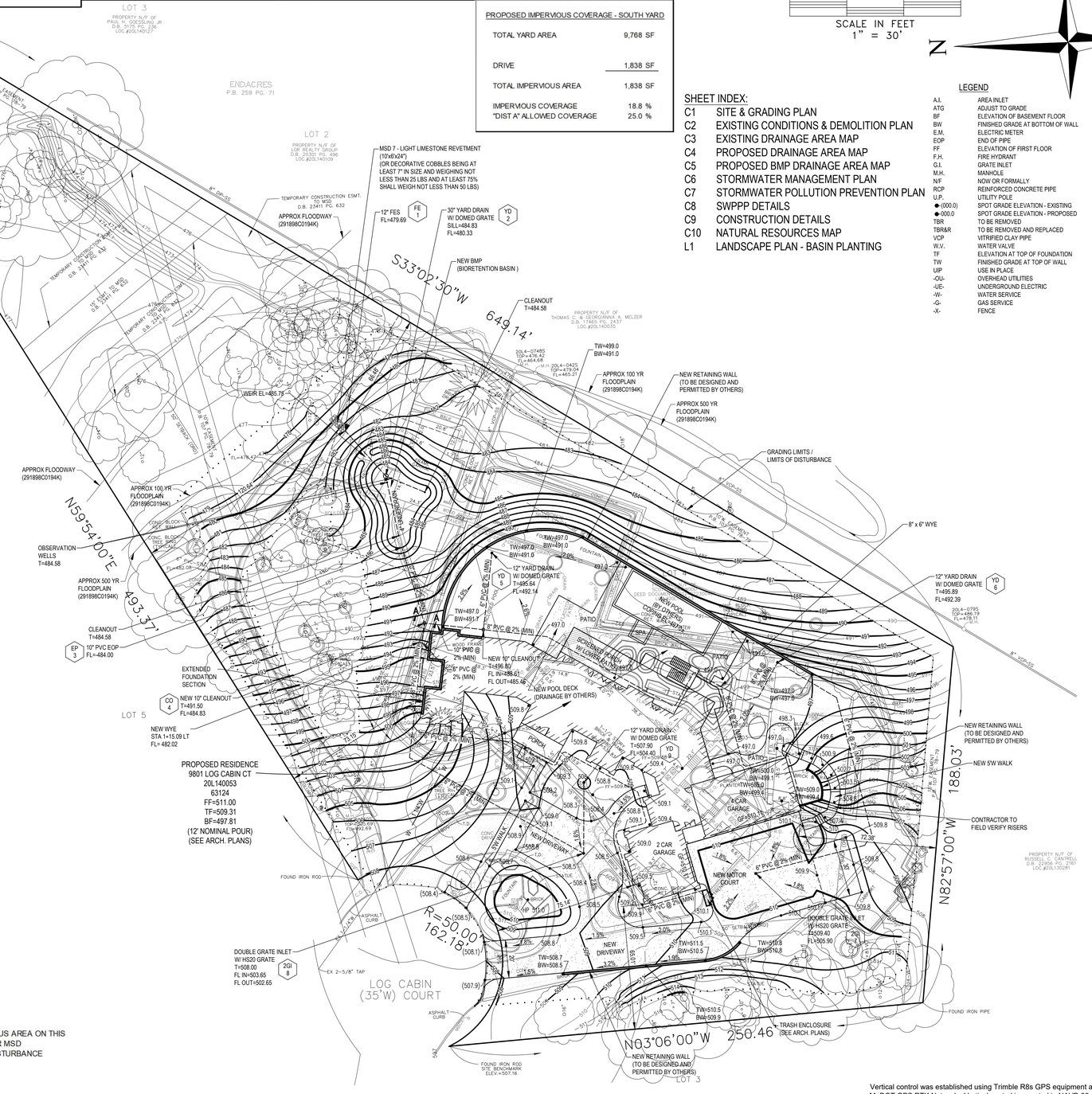
PROPOSED IMPERVIOUS COVERAGE - SOUTH YARD	
TOTAL YARD AREA	9,768 SF
DRIVE	1,838 SF
TOTAL IMPERVIOUS AREA	1,838 SF
IMPERVIOUS COVERAGE	18.8 %
"DIST A" ALLOWED COVERAGE	25.0 %

STORMWATER RUNOFF DIFFERENTIAL CALCULATIONS		
TOTAL SITE AREA	=	131,195 sf
EXISTING		
PERVIOUS AREA	=	84,841 sf
PERVIOUS PERCENTAGE	=	64.7%
15YR-20MIN PI FACTOR	=	1.70
PERVIOUS FLOWRATE (Q)	=	3.31 cfs
IMPERVIOUS AREA	=	46,354 sf
IMPERVIOUS PERCENTAGE	=	35.3%
15YR-20MIN PI FACTOR	=	3.54
IMPERVIOUS FLOWRATE (Q)	=	3.77 cfs
FLOWRATE (Q)	=	7.08 cfs
PROPOSED		
PERVIOUS AREA	=	106,773 sf
PERVIOUS PERCENTAGE	=	81.4%
15YR-20MIN PI FACTOR	=	1.70
PERVIOUS FLOWRATE (Q)	=	4.17 cfs
IMPERVIOUS AREA	=	24,422 sf
IMPERVIOUS PERCENTAGE	=	18.6%
15YR-20MIN PI FACTOR	=	3.54
IMPERVIOUS FLOWRATE (Q)	=	1.98 cfs
FLOWRATE (Q)	=	6.15 cfs
DIFFERENTIAL FLOWRATE		
PROP Q - EX Q	=	**-0.93** cfs



CROSS SECTION A-A

SCALE: HORIZ: 1"=10'
VERT: 1"=10'



STORMWATER MANAGEMENT FUTURE DISTURBANCE NOTE:

AREA OF LAND DISTURBANCE = 82,679 SF = 1.90 AC
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CALL MISSOURI ONE CALL SYSTEMS INC.
TWO FULL DAYS IN ADVANCE
OF STARTING WORK

MISSOURI ONE-CALL 1-800-344-7483

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A TRACT OF LAND BEING LOT 4 OF AMENDED PLAT OF LOTS 3,4,5,6 & 7 OF THE CORRECTED PLAT OF THE AMENDED PLAT OF LOG CABIN ESTATES IN TOWNSHIP 45 NORTH - RANGE 6 EAST CITY OF LADUE, ST. LOUIS COUNTY, MISSOURI

30' 0 30' 60'
SCALE IN FEET
1" = 30'

N

SHEET INDEX:

C1 SITE & GRADING PLAN
C2 EXISTING CONDITIONS & DEMOLITION PLAN
C3 EXISTING DRAINAGE AREA MAP
C4 PROPOSED DRAINAGE AREA MAP
C5 PROPOSED BMP DRAINAGE AREA MAP
C6 STORMWATER MANAGEMENT PLAN
C7 STORMWATER POLLUTION PREVENTION PLAN
C8 SWPPP DETAILS
C9 CONSTRUCTION DETAILS
C10 NATURAL RESOURCES MAP
L1 LANDSCAPE PLAN - BASIN PLANTING

LEGEND

A.I.	AREA INLET
ATG	ADJUST TO GRADE
BF	ELEVATION OF BASEMENT FLOOR
BW	FINISHED GRADE AT BOTTOM OF WALL
E.M.	ELECTRIC METER
EOP	END OF PIPE
FF	ELEVATION OF FIRST FLOOR
F.H.	FIRE HYDRANT
G.I.	GRATE INLET
M.H.	MANHOLE
N/F	NOW OR FORMALLY
RCP	REINFORCED CONCRETE PIPE
U.P.	UTILITY POLE
●(000.0)	SPOT GRADE ELEVATION - EXISTING
◆ 000.0	SPOT GRADE ELEVATION - PROPOSED
TBR	TO BE REMOVED
TBR&R	TO BE REMOVED AND REPLACED
VCP	VITRIFIED CLAY PIPE
W.V.	WATER VALVE
TF	ELEVATION AT TOP OF FOUNDATION
TW	FINISHED GRADE AT TOP OF WALL
UIP	USE IN PLACE
-OU-	OVERHEAD UTILITIES
-UE-	UNDERGROUND ELECTRIC
-W-	WATER SERVICE
-G-	GAS SERVICE
-X-	FENCE

Vertical control was established using Trimble R8s GPS equipment and the MoDOT GPS RTK Network. Vertical control is reported in NAVD 88 using Geoid 18.

Site Benchmark - Elevation 507.16, Top of iron rod found near the Northwest corner of 9801 Log Cabin Court.

MSD BASEMAP 20L4 MSD RECORD # 25MSD-00XXX

SCOTT UNDERWOOD & MARISSA ROSSER
1745 HORSESHOE RIDGE RD
CHESTERFIELD, MO 63005
(314) 265-1449
scottpunderwood@me.com

VOLZ Incorporated
ENGINEERING
LAND PLANNING
LAND SURVEYING
TRANSPORTATION
CONST. CONSULTING
10849 Indian Head Ind'l. Blvd.
St. Louis, Missouri 63132
314.426.5222 Main 314.426.1250 Fax
www.volzinc.com
Authority #203

STATE OF MISSOURI
12/2/25
MICHAEL D. KELLY
NUMBER PE-2016001263
REGISTERED PROFESSIONAL ENGINEER
MICHAEL D. KELLY
Professional Engineer
MO-2016001263

UNDERWOOD RESIDENCE

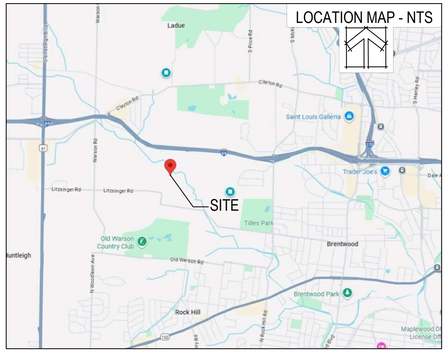
9801 LOG CABIN CT
LADUE MO 63124

SITE & GRADING PLAN

Designed By: EWV
Drawn By: MDK
Checked By: TJM
Base Map No: 20L4
MSD Record# 25MSD-00XXX
Project # 23452-0
12-2-25
C1

H:\DWG\2340-2349\23452\23452 Master.dwg - C1 Site 12/2/2025 1:08:27 PM Plotted by zreitmeier

FULL SIZED DRAWING PRINTS ON 24"X36"



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30' 0 30' 60'
SCALE IN FEET
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N

TO BE REMOVED

AREA OF EXISTING IMPROVEMENTS TO BE REMOVED

ALL DEMOLITION AND/OR ABANDOMENTS TO BE PER THE CITY OF LADUE, ST LOUIS COUNTY, AND THE METROPOLITAN ST LOUIS SEWER DISTRICT STANDARD SPECIFICATIONS

LEGEND

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BF	ELEVATION OF BASEMENT FLOOR
BW	FINISHED GRADE AT BOTTOM OF WALL
E.M.	ELECTRIC METER
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OF STARTING WORK

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Certificate of Authority #203

STATE OF MISSOURI
12/2/25
MICHAEL D. KELLY
NUMBER PE-2016001263
PROFESSIONAL ENGINEER
MICHAEL D. KELLY
Professional Engineer
MO-2016001263

UNDERWOOD RESIDENCE

9801 LOG CABIN CT
LADUE MO 63124

EXISTING CONDITIONS & DEMOLITION PLAN

Base Map No.: 20L4 | Designed By: EWV
MSD Record # 25MSD-00XXX | Drawn By: MDK
Project # 23452-0 | Checked By: TJM

12-2-25
C2

H:\CAD\2340-2349\23452\23452 Master.dwg - C2 Demo 12/2/2025 1:08:29 PM Plotted by:ewvittmeier

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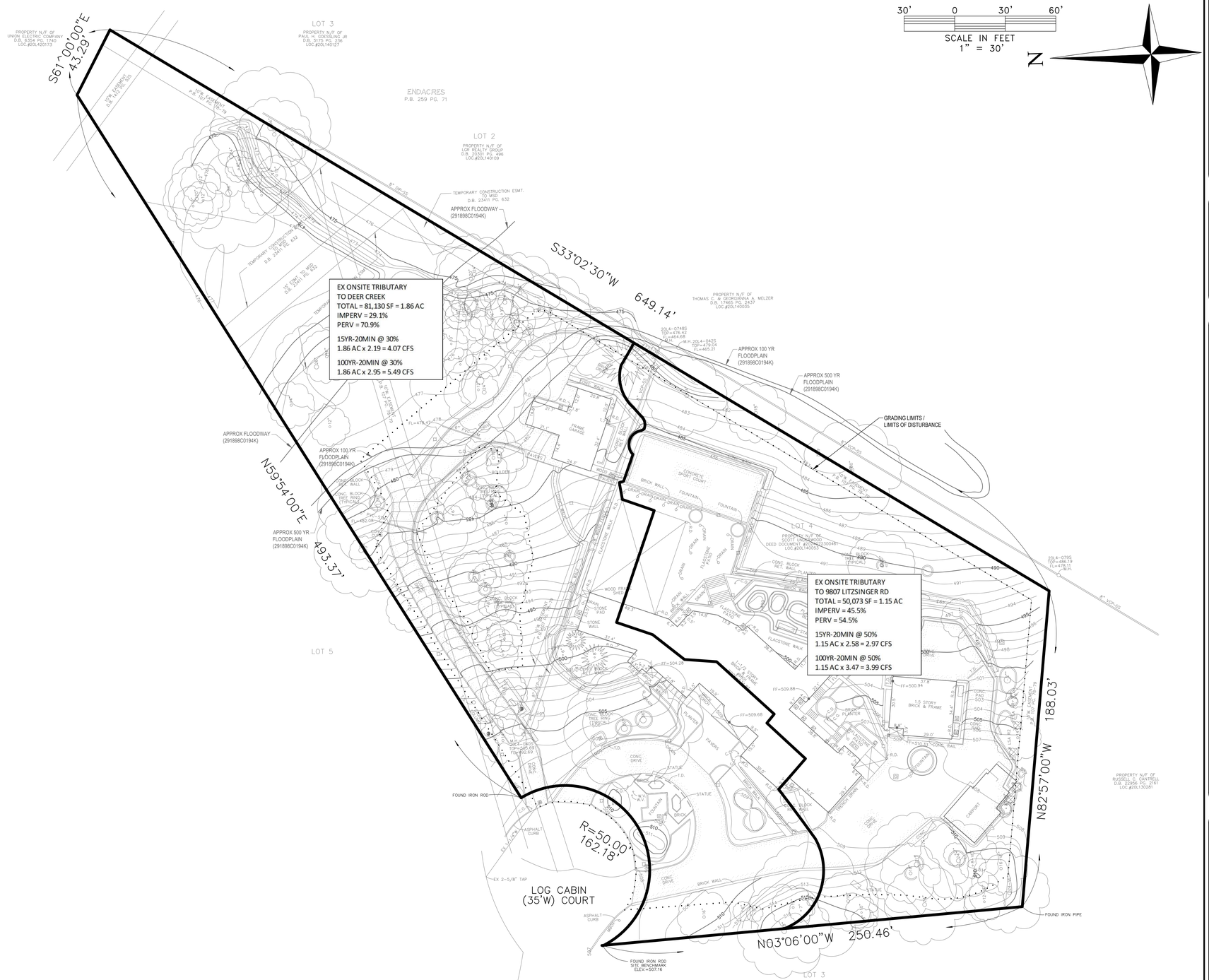

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NOTE: THIS SHEET TO BE USED FOR DRAINAGE AREA PURPOSES ONLY. NOT TO BE USED AS CONSTRUCTION PLANS.

MSD BASEMAP 20L4 MSD RECORD # 25MSD-00XXX

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STATE OF MISSOURI
12/2/25
MICHAEL D. KELLY
NUMBER
E-PE-2016001263
PROFESSIONAL ENGINEER
MICHAEL D. KELLY
Professional Engineer
MO-2016001263

UNDERWOOD RESIDENCE

9801 LOG CABIN CT
LADUE MO 63124

EXISTING DRAINAGE AREA MAP

Base Map No.: 20L4	Designed By: EVV
MSD Record # 25MSD-00XXX	Drawn By: MDK
Project # 23452-0	Checked By: TJM

12-2-25

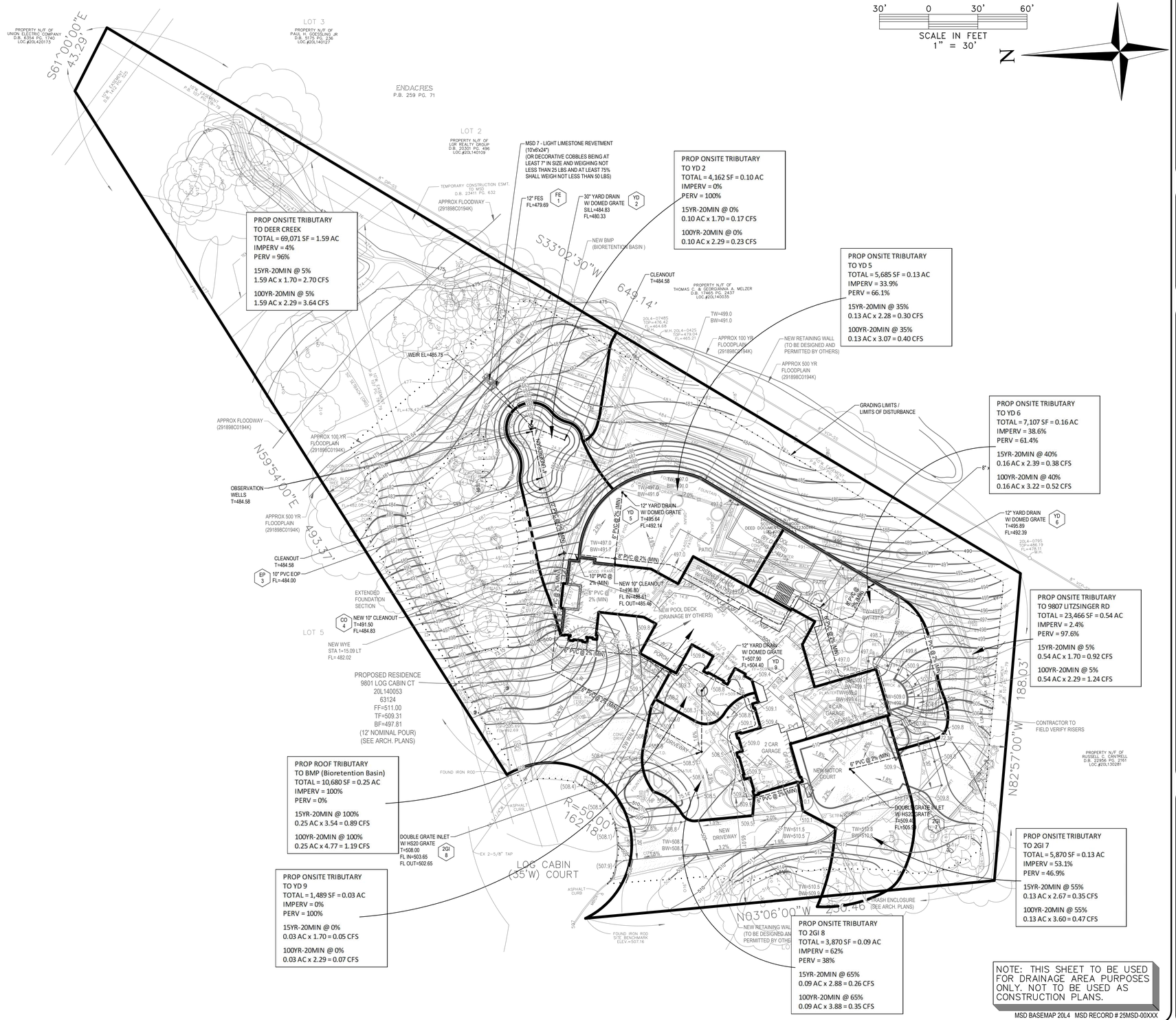
C3

H:\DWG\2340-2349\23452\23452 Master.dwg - C3 Ex DA Map 12/2/2025 1:08:34 PM Plotted by avietmeier

FULL SIZED DRAWING PRINTS ON 24"X36"

PROPOSED IMPERVIOUS COVERAGE - LOT	
TOTAL LOT AREA	131,195 SF
HOUSE / PORCHES / POOL	14,483 SF
DRIVE / WALKS / PATIOS	9,939 SF
TOTAL IMPERVIOUS AREA	24,422 SF
IMPERVIOUS COVERAGE	18.6 %
"DIST A" ALLOWED COVERAGE	20.0 %

STORMWATER RUNOFF DIFFERENTIAL CALCULATIONS	
TOTAL SITE AREA =	131,195 sf
EXISTING	
PERVIOUS AREA =	84,841 sf
PERVIOUS PERCENTAGE =	64.7%
15YR-20MIN PI FACTOR =	1.70
PERVIOUS FLOWRATE (Q) =	3.31 cfs
IMPERVIOUS AREA =	46,354 sf
IMPERVIOUS PERCENTAGE =	35.3%
15YR-20MIN PI FACTOR =	3.54
IMPERVIOUS FLOWRATE (Q) =	3.77 cfs
FLOWRATE (Q) =	7.08 cfs
PROPOSED	
PERVIOUS AREA =	106,773 sf
PERVIOUS PERCENTAGE =	81.4%
15YR-20MIN PI FACTOR =	1.70
PERVIOUS FLOWRATE (Q) =	4.17 cfs
IMPERVIOUS AREA =	24,422 sf
IMPERVIOUS PERCENTAGE =	18.6%
15YR-20MIN PI FACTOR =	3.54
IMPERVIOUS FLOWRATE (Q) =	1.98 cfs
FLOWRATE (Q) =	6.15 cfs
DIFFERENTIAL FLOWRATE	
PROP Q - EX Q =	**-0.93** cfs



CALL MISSOURI ONE CALL SYSTEMS INC.
TWO FULL DAYS IN ADVANCE
OF STARTING WORK

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12/2/25
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Professional Engineer
MO-2016001263

UNDERWOOD RESIDENCE

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LADUE MO 63124

PROPOSED DRAINAGE AREA MAP

Base Map No: 20L4 | Designed By: EWV
MSD Record # 25MSD-00XXX | Drawn By: MDK
Project # 23452-0 | Checked By: TJM

12-2-25

C4

FULL SIZED DRAWING PRINTS ON 24"X36"

BMP CREDIT SUMMARY TABLE							
DRAINAGE AREA	ACRES	IMPERVIOUS (ACRES)	PERVIOUS (ACRES)	ROOF (ACRES)	BMP	WQv REQUIRED (CUFT)	WQv PROVIDED (CUFT)
1	0.89	0.48	0.41	0.33	ONSITE TO BIORETNETION	1,479	1,502
2	1.59	0.06	1.53	0.00	UNTREATED, DISTURBED	552	0
3	0.54	0.01	0.53	0.00	UNTREATED, DISTURBED	149	0
TOTALS	3.02	0.55	2.47	0.33		2,180	1,502
TOTAL DISTURBED AREA = 1.90 ACRES							

BIORETENTION PERFORMANCE SUMMARY TABLE					
BIORETENTION BASIN	WQv PONDING DEPTH (FT)	BASIN SURFACE ELEVATION	MAXIMUM BASIN ELEVATION	MAXIMUM PONDING ELEVATION *	FREEBOARD (FT)
1	0.83	484.00	486.15	485.02	1.13
*BASED ON 15-YR, 20-MIN					

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PROPOSED BMP
DRAINAGE AREA MAP

Base Map No.: 20L4 | Designed By: EWV
MSD Record # 25MSD-00XXX | Drawn By: MDK
Project # 23452-0 | Checked By: TJM

12-2-25

C5

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