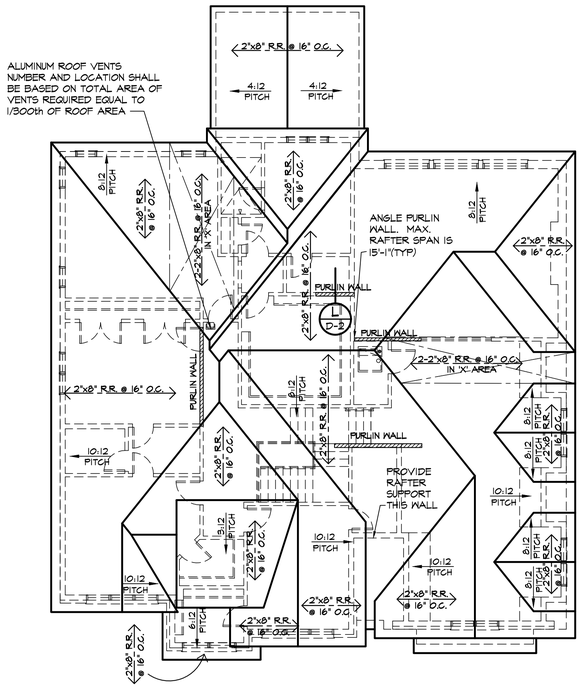
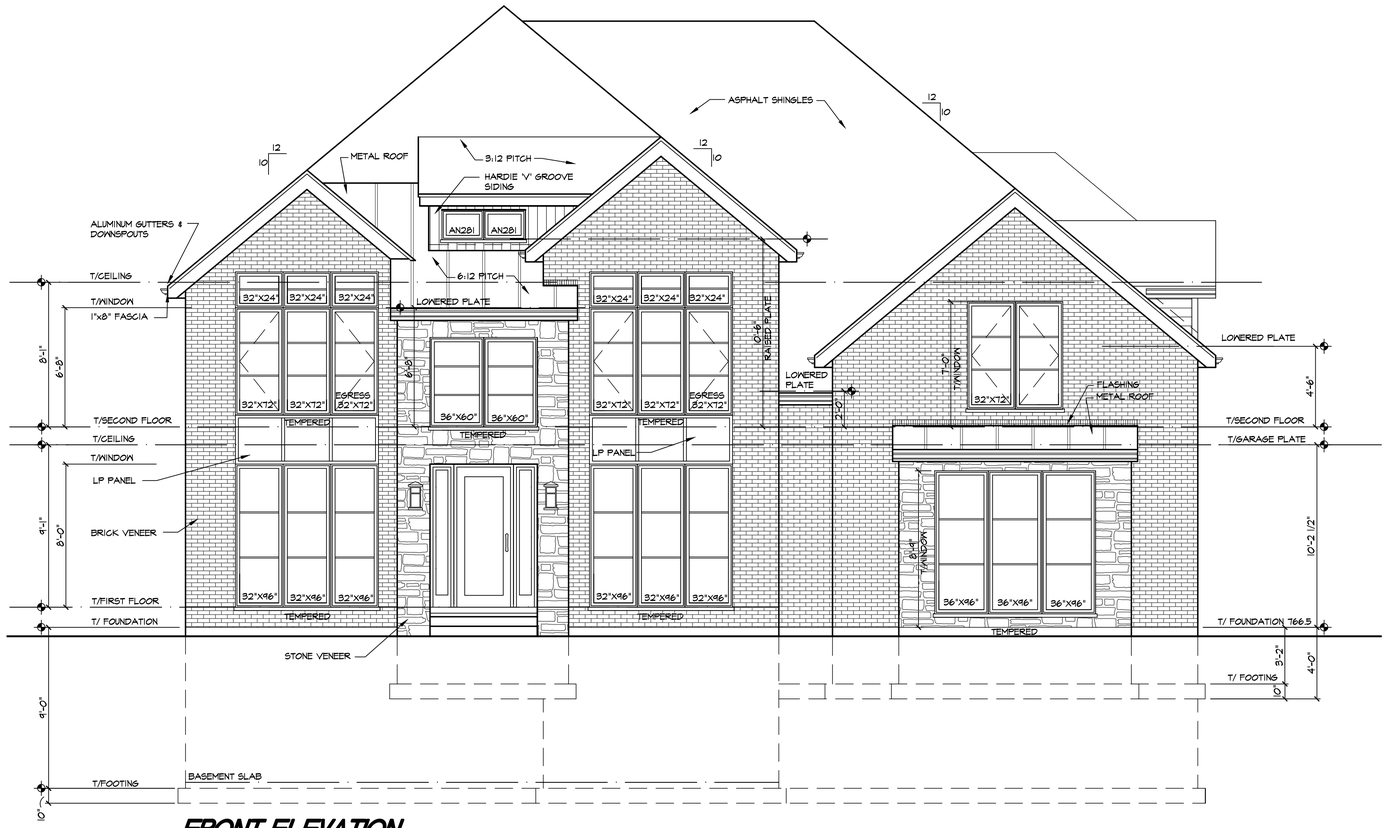


ROOF PLAN

SCALE:1/8" = 1'-0"



FRONT ELEVATION

SCALE:1/4" = 1'-0"

ROOF NOTES

USE CANADIAN SPRUCE-PINE-FIR NO. 2 FOR ROOF RAFTERS THRU 2"x10". 2"x12" ROOF RAFTERS SHALL BE CANADIAN HEM-FIR NO. 2 PER "U.S. SPAN BOOK FOR CANADIAN LUMBER" SPAN TABLES 5PF FOR SOUTHERN LUMBER (NORTHERN LUMBER GREATER SPANS ARE ALLOWED)

2"x6" @ 12" O.C. = 13'-7" 2"x8" @ 12" O.C. = 17'-5" 2"x10" @ 12" O.C. = 21'-4"
2"x6" @ 16" O.C. = 11'-11" 2"x8" @ 16" O.C. = 15'-1" 2"x10" @ 16" O.C. = 18'-5"

HEM FIR
2"x12" @ 12" O.C. = 24'-4"
2"x12" @ 16" O.C. = 21'-1"

1. HIP OR VALLEY RAFTERS EXCEEDING 24'-0" IN LENGTH SHALL BE 1 3/4" WIDE GANG LAM MEMBERS x RAFTER DEPTH PLUS 2" DEEP.
2. ALL HIP VALLEY CRIPPLE JACKS SHALL BE INSTALLED AND SHALL BE EQUAL IN DEPTH AND SPACING TO MAIN RAFTER FRAMING INTO HIP OR VALLEY RAFTER.
3. PROVIDE ICE AND WATER SHIELD A MIN. OF 24" MEASURED HORIZONTALLY FROM INSIDE FACE OF EXTERIOR WALL
4. 2X6 COLLAR TIES SHALL BE INSTALLED FOR ROOF RAFTERS @48" O.C.
5. WHERE HIP RAFTERS FRAME PERPENDICULAR TO CEILING JOISTS PROVIDE SOLID BLOCKING AT 8'-0" O.C. BETWEEN JOISTS FOR A DISTANCE OF 10'-0" FROM EXTERIOR WALL.
6. PROVIDE FLASHING AT ALL WALL AND ROOF INTERSECTIONS WHEREVER THERE IS A CHANGE IN ROOF SLOPE OR DIRECTION AND AROUND ROOF OPENINGS.
7. RAFTERS SHALL BE FRAMED TO EACH OTHER WITH A GUSSET PLATE OR TO A MINIMUM 1-INCH NOMINAL THICKNESS RIDGE BOARD, NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER.
8. A MINIMUM 2-INCH NOMINAL THICKNESS VALLEY OR HIP RAFTER IS REQUIRED AT ALL VALLEYS AND HIPS, NOT LESS THAN THE DEPTH OF THE CUT END OF THE RAFTER, AND SUPPORTED AT THE RIDGE BY A BRACE TO A BEARING PARTITION.
9. THE ENDS OF EACH RAFTER AND CEILING JOIST SHALL HAVE NOT LESS THAN 1-1/2" OF BEARING ON WOOD OR METAL AND NOT LESS THAN 3" ON MASONRY OR CONCRETE. MAINTAIN 2" CLEARANCE TO COMBUSTIBLE FRAMING MEMBER AT MASONRY FIREPLACE.

BASE LUMBER VALUES

TYPE	Fb	E
HEM FIR #2 (CANADIAN)	850 PSI	1,300,000
S.P.F. #2 (CANADIAN)	875 PSI	1,400,000
MICRO.LAM LVL	2600 PSI	1,900,000
PARALLAM PSL	2900 PSI	2,000,000
1.3 E TIMBERSTRAND LSL(4 3/4" TO 11 1/4")	1700 PSI	1,300,000
1.5E TIMBERSTRAND LSL(11 7/8" TO 18")	2250 PSI	1,500,000

ALL JOISTS AND RAFTERS TO BE S.P.F. #2 (CANADIAN) OR HEF FIR #2(CANADIAN) UNLESS OTHERWISE NOTED.

SEE SP-1 FOR HEADER SIZES

ALL STEEL LINTELS & BEAMS SHALL BE SHOP PRIMED.

INSTALL IPCO FLASHING, END DAMS, AND WEEP ROPE AT ALL STEEL LINTELS. TERMINATED FLUSH WITH MASONRY FACE.

DESIGN LOADS

USE	LL	DL
BALCONIES(EXTERIOR)	60	7
DECKS	60	7
ROOF RAFTERS	30	7
ROOF RAFTERS W/CATHEDRAL CEILING	30	15
ROOF RAFTERS(HEAVY ROOF)-EX. CLAY, TILE, CEMENT, SLATE	30	17
ATTICS(NO STORAGE WITH ROOF SLOPE NOT STEEPER THAN 3:12)	10	10
ATTICS(LIMITED ATTIC STORAGE)	20	10
FLOORS	40	10
FLOORS(SLEEPING ROOMS)	30	10
STAIRS	30	10
GUARDRAILS AND HANDRAILS (A SINGLE CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP)	200	
WALLS-STUD	10	
WALLS-BRICK(STD)	40	
PARTITIONS OR WALLS (INTERIOR), HORIZONTALLY	5	
FLEXICORE	100	

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, COUNTY, AND LOCAL BUILDING ORDINANCES.
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR DIMENSIONAL ACCURACY. ALL DIFFERENCES IN ANTICIPATED DIMENSIONS OR CONDITIONS SHALL BE IMMEDIATELY SUBMITTED IN WRITING TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OR CONTINUATION OF WORK. OR THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAME. ANY DEVIATION FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE ARCHITECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WILL NULLIFY AND VOID ANY ARCHITECTURAL CERTIFICATION PERTAINING TO THIS PROJECT.
- THE ARCHITECT SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTIONS WITH THE WORK. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S OR SUBCONTRACTOR'S SCHEDULES OR FOR FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. THE ARCHITECT SHALL NOT HAVE CONTROL OVER OR CHARGE OF ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR THEIR AGENTS OR EMPLOYEES, OR OF ANY OTHER PERSONS PERFORMING PORTIONS OF THE WORK.
- CONCRETE FOOTINGS SHALL BEAR ON UNDISTURBED SOIL WITH A MINIMUM BEARING CAPACITY OF 3000 PSF.
- CONCRETE SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
- WOOD SILL PLATES BEARING ON CONCRETE OR MASONRY SHALL BE PRESSURE TREATED FOR ROT AND TERMITES.
- PROVIDE A CONTINUOUS 2X6 WOOD NAILER ON TOP OF ALL STEEL BEAMS EXCEPT THOSE USED FOR SUPPORTING MASONRY.
- PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS, OVERSIZED SUBS AND SOLID BLOCKING UNDER PERPENDICULAR PARTITIONS.
- BLOCK SOLID ALL POINTS LOADS DOWN TO STEEL BEAMS AND FOUNDATION WALLS.
- PROVIDE 3-2X4'S MIN. AT EACH END OF ALL WOOD BEAMS, HEADERS, AND GIRDER TRUSSES CONTINUOUS TO CONCRETE FOUNDATION OR STRUCTURAL STEEL UNLESS NOTED OTHERWISE.
- FIRESTOP ALL SOFFITS, PENETRATIONS BETWEEN STORIES, THE ROOF SPACES AND DROPPED CEILINGS WITH 5/8" DRYWALL OR 3/4" PLYWOOD.
- PLUMBING SUPPLY LINES SHALL BE COPPER TYPE L.
- ALL WINDOW DESIGNATIONS ARE "ANDERSEN"
- ALL EGRESS WINDOWS FROM SLEEPING ROOMS MUST HAVE A MIN. NET CLEAR OPENING OF 5.7 SQ. FT. THE MIN. NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 24". THE MIN. NET CLEAR OPENING WIDTH DIMENSION SHALL BE 20". WHERE WINDOWS ARE PROVIDED AS A MEANS OF EGRESS THEY SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44" A.F.F.
- PROVIDE SAFETY GLAZING FOR WINDOWS LESS THAN 18" A.F.F. AND OVER ALL TUBS.
- FIREPLACE FLUES TO BE MIN. (2'-0") ABOVE ANY ROOF SURFACE WITHIN MIN. HORIZONTAL DISTANCE OF (10'-0").
- PROVIDE ICE AND WATER SHIELD AT ALL VALLEYS, SKYLIGHTS, SADDLES, ROOF/WALL INTERSECTIONS(3'-0" UP WALL) AND AT EAVE'S EDGE TO A POINT AT LEAST 24" INSIDE OF THE EXTERIOR WALL LINE OF THE BUILDING MEASURED HORIZONTALLY.
- ENGINEERED LUMBER SHALL NOT BE CUT, DRILLED, OR NOTCHED UNLESS SPECIFICALLY INCLUDED IN THE DESIGN.
- ALL WINDOW WELLS TO HAVE COVERS OR GUARDS.
- WINDOW WELLS WITH VERTICAL DEPTH GREATER THAN 44" SHALL BE EQUIPPED WITH A PERMANENTLY AFFIXED LADDER OR STEPS USABLE WITH THE WINDOW IN THE FULLY OPEN POSITION. RUNGS AT LEAST 12" WIDE AT LEAST 9" FROM WALL, SPACED NO MORE THAN 18" O.C. VERTICALLY FOR FULL HEIGHT OF WINDOW WELL.
- PROVIDE 1X3 CROSS BRACING IN FLOORS WITH MAX. SPACING OF 8'-0" O.C. ONE ROW MINIMUM. PROVIDE SOLID BRIDGING IN THE CEILING JOISTS WITH MAX. SPACING OF 8'-0" O.C.- ONE ROW MIN.
- HOT AND COLD AIR RETURNS/SUPPLIES MUST BE IN SHEET METAL.
- FIREPLACE OPENING OF 6 S.F. OR LESS-HEARTH EXTENSION OF 8" ON EACH SIDE AND 16" IN FRONT OF FIREPLACE OPENING. FIREPLACE OPENING OF 6 S.F. OR GREAT-HEAR EXTENSION OF 12" ON EACH SIDE AND 20" IN FRONT OF FIREPLACE
- WHERE THE TOP OF THE SILL OF AN OPERABLE WINDOW OPENING IS LOCATED LESS THAN 24" ABOVE THE FINISHED FLOOR AND GREATER THAN 72" ABOVE THE FINISHED GRADE OR OTHER SURFACE BELOW ON THE EXTERIOR OF THE BUILDING, THE OPERABLE WINDOW SHALL COMPLY WITH ONE OF THE FOLLOWING:
  1. OPERABLE WINDOWS WITH OPENINGS THAT WILL NOT ALLOW A 4" DIAMETER SPHERE TO PASS THROUGH THE OPENING WHERE THE OPENING IS IN IT'S LARGEST OPENED POSITION.
  2. OPERABLE WINDOWS THAT ARE PROVIDED WITH WINDOW FALL PREVENTION DEVICES THAT COMPLY WITH ASTM F 2090
  3. OPERABLE WINDOWS THAT ARE PROVIDED WITH WINDOW OPENING CONTROL DEVICES THAT COMPLY WITH SECTION R312.2.2

FIRST FLOOR=2,218 SQUARE FEET
SECOND FLOOR=2,365 SQUARE FEET
TOTAL=4,583 TOTAL SQUARE FEET

DRAWING INDEX

CODES

2024 International Building Code
2024 International Residential Code
2024 International Mechanical Code
2024 International Fuel Gas Code
2024 Property Maintenance code
2024 International Energy Conservation Code (IECC) - with Illinois amendments
Illinois State Plumbing Code -CURRENT EDITION
2023 National Electrical Code (NEC)

CERTIFICATION

I CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND TO THE BEST OF MY ABILITY COMPLY WITH THE BUILDING ORDINANCES, ZONING ORDINANCES, AND OTHER APPLICABLE CODES AND ORDINANCES OF THE VILLAGE OF HOMER GLEN, IL

PROFESSIONAL DESIGN FIRM # 184.006712 EXPIRES 4/30/2027

KIRK DESIGN INC.
•ARCHITECTS•
Phone: 630-334-7779
Shorewood, IL
jenkokal@comcast.net

A New Residence for
O'Malley Builders
Lot 52, Evlyn's Gate
Homer Glen, IL

LICENSED ARCHITECT
JENNIFER E. KOKAL
001-020704
STATE OF ILLINOIS

EXPIRES:11/30/2026

REVISIONS:

TITLE:
ELEVATION/ ROOF PLAN

DRAWN:	CHECKED:
JK	JK

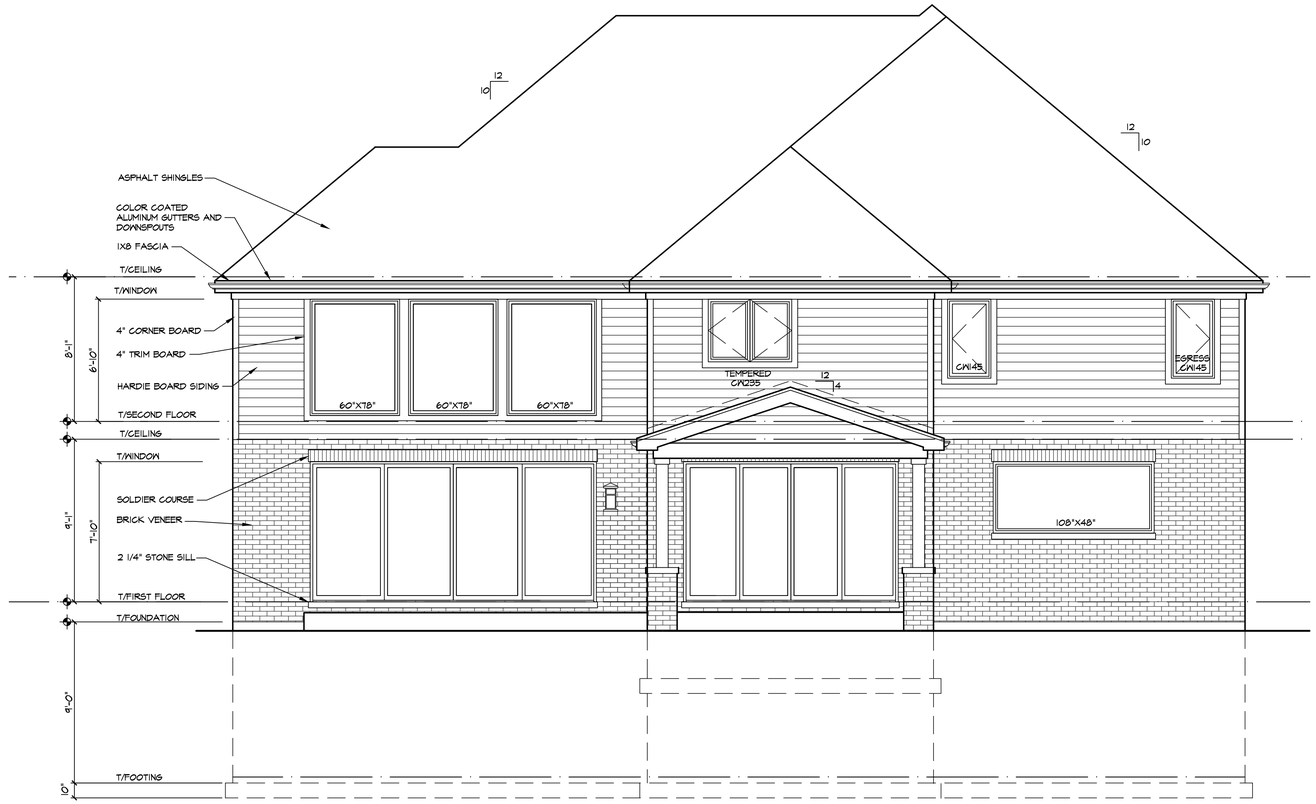
DATE ISSUED:
12/17/25

PROJECT NUMBER:
2025-080

SHEET NUMBER:
A-1

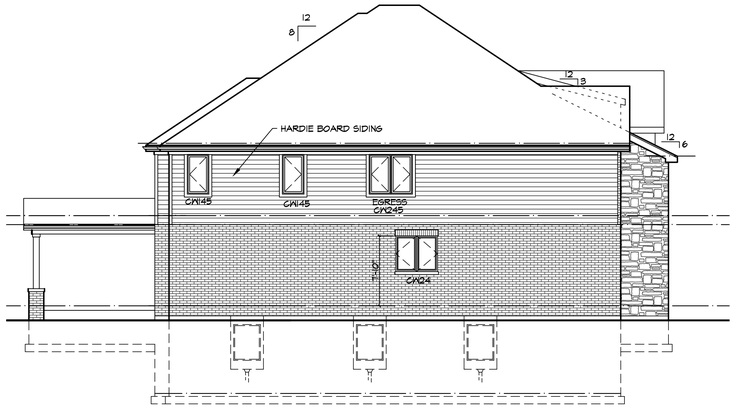
2024 IECC COMPLIANCE REQUIREMENTS

1. A PERMANENT CERTIFICATE SHALL BE COMPLETED BY THE BUILDER OR OTHER APPROVED PARTY AND POSTED ON A WALL IN THE SPACE WHERE THE FURNACE IS LOCATED, A UTILITY ROOM OR AN APPROVED LOCATION INSIDE THE BUILDING. WHERE LOCATED ON AN ELECTRICAL PANEL, THE CERTIFICATE SHALL NOT COVER OR OBSTRUCT THE VISIBILITY OF THE CIRCUIT DIRECTORY LABEL, SERVICE DISCONNECT LABEL OR OTHER REQUIRED LABELS. THE CERTIFICATE SHALL LIST THE PREDOMINANT R-VALUES OF INSULATION INSTALLED IN THE CEILING/ROOF, WALLS, FOUNDATION/SLAB, BASEMENT WALL, CRAWL SPACE WALL AND/OR FLOOR) AND DUCTS OUTSIDE CONDITIONED SPACES, U-FACTORS FOR FENESTRATION AND THE SHGC OF FENESTRATION, THE RESULTS FROM ANY REQUIRED DUCT SYSTEM AND BUILDING ENVELOPE AIR LEAKAGE TESTING DONE ON THE BUILDING. WHERE THERE IS MORE THAN ONE VALUE FOR EACH COMPONENT, THE CERTIFICATE SHALL INDICATE BOTH THE VALUE COVERING THE LARGEST AREA AND THE AREA WEIGHTED AVERAGE VALUE IF AVAILABLE. THE CERTIFICATE SHALL LIST THE TYPES AND EFFICIENCIES OF HEATING, COOLING AND SERVICE WATER HEATING EQUIPMENT. WHERE A GAS FIRED UNVENTED ROOM HEATER, ELECTRIC FURNACE OR BASEBOARD ELECTRIC HEATER IS INSTALLED, THE CERTIFICATE SHALL INDICATE "GAS-FIRED UNVENTED ROOM HEATER, ELECTRIC FURNACE, OR BASEBOARD ELECTRIC HEATER". AN EFFICIENCY SHALL NOT BE LISTED FOR GAS-FIRED UNVENTED ROOM HEATERS, ELECTRIC FURNACES OR ELECTRIC BASEBOARD HEATERS. THE CODE EDITION UNDER WHICH THE STRUCTURE WAS PERMITTED AND THE COMPLIANCE PATH USED.
2. THE BUILDING OR DWELLING UNIT SHALL BE TESTED FOR AIR LEAKAGE. WHEN COMPLYING WITH THE PRESCRIPTIVE COMPLIANCE OPTION THE BUILDING SHALL HAVE AN AIR LEAKAGE RATE NOT GREATER THAN 3.0 AIR CHANGES PER HOUR. WHEN COMPLYING WITH THE SIMULATED BUILDING PERFORMANCE METHOD THE BUILDING SHALL HAVE AN AIR LEAKAGE RATE NOT GREATER THAN 4.0 AIR CHANGES PER HOUR, OR .22 CUBIC FEET PER MINUTE PER SQUARE FOOT. TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH ANSI/RESNET/ICC 380, ASTM E779 OR ASTM E1827 AND REPORTED AT A PRESSURE OF 0.2 INCH PA. WHERE REQUIRED BY THE CODE OFFICIAL, TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY. A WRITTEN REPORT OF THE RESULTS SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEXT AND PROVIDED TO THE CODE OFFICIAL. TESTING SHALL BE PERFORMED AT ANY TIME AFTER CREATING OF ALL PENETRATIONS OF THE BUILDING THERMAL ENVELOPE HAVE BEEN SEALED.
3. NEW WOOD BURNING FIREPLACES SHALL HAVE TIGHT FITTING FLUE DAMPERS OR DOORS AND OUTDOOR COMBUSTION AIR. WHEN USING TIGHT-FITTING DOORS ON FACTORY BUILT FIREPLACES LISTED AND LABELED IN ACCORDANCE WITH UL 127, THE DOORS SHALL BE TESTED AND LISTED FOR THE FIREPLACE.
4. RECESSED LUMINAIRES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES. ALL RECESSED LUMINAIRES SHALL BE IC-RATED AND LABELED AS HAVING AN AIR LEAKAGE RATE NOT MORE THAN 2 CFM. ALL RECESSED LUMINAIRES SHALL BE SEALED WITH A GASKET OR CAULK BETWEEN THE HOUSING AND THE INTERIOR WALL OR CEILING COVERING.
5. ALL PERMANENTLY INSTALLED LUMINAIRES SHALL BE CAPABLE OF OPERATION WITH AN EFFICACY OF NOT LESS THAN 45 LUMENS PER WATT OR SHALL CONTAIN LAMPS CAPABLE OF OPERATION WITH AN EFFICACY OF NOT LESS THAN 65 LUMENS PER WATT.
PERMANENTLY INSTALLED LUMINAIRES IN HABITABLE SPACES SHALL BE CONTROLLED WITH A MANUAL DIMMER OR WITH AN AUTOMATIC SHUTOFF CONTROL THAT AUTOMATICALLY TURNS OFF LIGHTS WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE AND SHALL INCORPORATE A MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN THE LIGHTS ON OR OFF. PERMANENTLY INSTALLED LUMINAIRES IN GARAGES, UNFINISHED BASEMENTS, LAUNDRY ROOMS AND UTILITY ROOMS SHALL BE CONTROLLED BY AN AUTOMATIC SHUTOFF CONTROL THAT AUTOMATICALLY TURNS OFF LIGHTS WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE AND SHALL INCORPORATED A MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN THE LIGHTS ON OR OFF.
6. BUILDING FRAMING CAVITIES SHALL NOT BE USED AS DUCTS OR PLENUMS.
7. THE THERMOSTAT CONTROLLING THE PRIMARY HEATING OR COOLING SYSTEM SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE TO MAINTAIN DIFFERENT TEMP. SET POINTS AT DIFFERENT TIMES OF DAY AND DIFFERENT DAYS OF THE WEEK. THE THERMOSTAT SHALL INSLCUDE THE CAPABILITY TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPS. OF NOT LESS THAN 55 DEGREES F TO NOT GREATER THAN 85 DEGREES F.
8. ATTIC ACCESS PANELS MUST BE INSULATED EQUIVALENT TO THE SURROUNDING SURFACE AND WEATHER STRIPPED.
9. MECHANICAL SYSTEM PIPING CAPABLE OF CARRYING FLUIDS ABOVE 105 DEGREES F OR BELOW 55 DEGREES F SHALL BE INSULATED TO A MINIMUM R-3.
10. ELECTRICAL AND COMMUNICATION OUTLET BOXES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES. THEY SHALL BE TESTED IN ACCORDANCE WITH NEMA OS 4 AND SHALL HAVE AN AIR LEAKAGE RATE OF NOT GREATER THAN 2.0 CUBIC FEET PER MINUTE. BOXES SHALL BE MARKED "NEMA OS 4" OR "OS 4" IN ACCORDANCE WITH NEMA OS 4.
11. INSULATE THE FOLLOWING PIPES WITH 1" OF INSULATION.
   A)PIPING 3/4" AND LARGER IN NOMINAL DIAMETER LOCATED INSIDE THE CONDITIONED SPACE
   B)PIPING LOCATED OUTSIDE THE CONDITIONED SPACE
   C)PIPING FROM THE WATER HEATER TO A DISTRIBUTION MANIFOLD
   D)PIPING LOCATED UNDER A FLOOR SLAB
   E)BURIED PIPING
   F)SUPPLY AND RETURN PIPING IN CIRCULATION AND RECIRCULATION SYSTEMS OTHER THAN COLD WATER PIPE RETURN DEMAND RECIRCULATION SYSTEMS
13. SUPPLY AND RETURN DUCTS LOCATED OUTSIDE CONDITIONED SPACE SHALL BE INSULATED TO AN R-VALUE OF NOT LESS THAN R-8 FOR DUCTS 3 INCHES IN DIAMETER AND LARGER AND NOT LESS THAN R-6 FOR DUCTS SMALLER THAN 3 INCHES IN DIAMETER.
14. DUCTS LOCATED IN CONDITIONED SPACE: FOR DUCTWORK TO BE CONSIDERED INSIDE A CONDITIONED SPACE, IT SHALL COMPLY WITH THE FOLLOWING: 1. DUCT SYSTEM SHALL BE LOCATED COMPLETELY WITHIN THE CONTINUOUS AIR BARRIER AND WITHIN THE BUILDING THERMAL ENVELOPE 2. THE DUCTWORK IN VENTILATED ATTIC SPACES SHALL BE BURIED WITHIN CEILING INSULATION AND THE AIR HANDLER IS LOCATED WITHIN THE CONTINUOS AIR BARRIER AND BUILDING THERMAL ENVELOPE. THE DUCT LEAKAGE IS LESS THAN OR EQUAL TO 1.5 CUBIC FEET PER MINUTE PER 100 SF OF CONDITIONED FLOOR AREA, AND THE CEILING INSULATION R-VALUE INSTALLED AGAINST AND ABOVE THE INSULATED DUCT IS GREATER THAN OR EQUAL TO THE PROPOSED CEILING INSULATION R-VALUE, LESS THE R-VALUE OF THE INSULATION ON THE DUCT. 3. DUCTWORK CONTAINED WITHIN WALL OR FLOOR ASSEMBLIES SEPARATING UNCONDITIONED FROM CONDITIONED SPACE SHALL COMPLY WITH THE FOLLOWING:
1. A CONTINUOUS AIR BARRIER INSTALLED BETWEEN UNCONDITIONED SPACE
2. DUCT INSULATION INSTALLED IN ACCORDANCE WITH SECTION R403.3.3.
3. NOT LESS THAN R-10 INSULATION, OR NOT LESS THAN 50 PERCENT OF THE REQUIRED R-VALUE SPECIFIED IN TABLE 402.1.3, WHICHEVER IS GREATER, SHALL BE LOCATED BETWEEN THE DUCTWORK AND THE UNCONDITIONED SPACE.
15. DUCTS BURIED WITHIN CEILING INSULATION: WHERE SUPPLY AND RETURN DUCTS ARE PARTIALLY OR COMPLETELY BURIED IN CEILING INSULATION, SUCH DUCTS SHALL COMPLY WITH THE FOLLOWING: DUCTS INSULATION NOT LESS THAN R-8, AT ALL POINTS ALONG THE DUCT, THE SUM OF THE CEILING INSULATION R-VALUE AGAINST AND ABOVE THE TOP OF THE DUCT, AND AGAINST AND BELOW THE BOTTOM OF THE DUCT, SHALL BE NOT LESS THAN R-19, EXCLUDING THE R-VALUE OF THE DUCT.
16. HEATING AND COOLING EQUIPMENT MUST BE SIZED PER ACCA MANUAL S BASED ON BUILDING LOADS CALCULATED IN ACCORDANCE WITH MANUAL J OR OTHER APPROVED HEATING AND COOLING CALCULATION METHODS(SUBMIT CALCS)
17. DUCTS, AIR HANDLERS AND FILTER BOXES SHALL BE SEALED.
18. FOR SUNROOMS AND HEATED GARAGES: 1. THE MINIMUM CEILING INSULATION R-VALUES SHALL BE R-24. 2. THE MINIMUM WALL INSULATION R-VALUE SHALL BE R-13. WALLS SEPARATING A SUNROOM OR HEATED GARAGE WITH THERMAL ISOLATION FROM CONDITIONED SPACE SHALL COMPLY WITH THE BUILDING THERMAL ENVELOPE REQUIREMENTS OF THIS CODE.
19. A BAFFLE SHALL BE INSTALLED ADJACENT TO SOFFIT AND EAVE VENTS. BAFFLES SHALL MAINTAIN A NET FREE OPENING EQUAL TO OR GREATER THAN THE SIZE OF THE VENT. THE BAFFLE SHALL EXTEND OVER THE TOP OF THE ATTIC INSULATION. THE BAFFLE SHALL BE PERMITTED TO BE ANY SOLID MATERIAL. THE BAFFLE SHALL BE INSTALLED TO THE OUTER EDGE OF THE EXTERIOR WALL TOP PLATE WHERE SOFFIT VENTING IS NOT CONTINUOS, BAFFLES SHALL BE INSTALLED CONTINUOUSLY TO PREVENT VENTILATION AIR IN THE EAVE SOFFIT FROM BYPASSING THE BAFFLE
20. THE BUILDING THERMAL ENVELOPE SHALL BE DURABLE SEALED TO LIMIT INFILTRATION WITH A SUITABLE SOLID MATERIALS BEHIND TUBS AND SHOWERS ON EXTERIOR WALLS.
21. WINDOWS, SKYLIGHTS AND SLIDING GLASS DOORS SHALL HAVE AN AIR INFILTRATION RATE OF NOT GREATER THAN 0.3 CUBIC FEET PER MINUTE PER SQUARE FOOT AND FOR SWINGING DOORS, NOT GREATER THAN 0.5 CUBIC FEET PER MINUTE PER SQUARE FOOT.



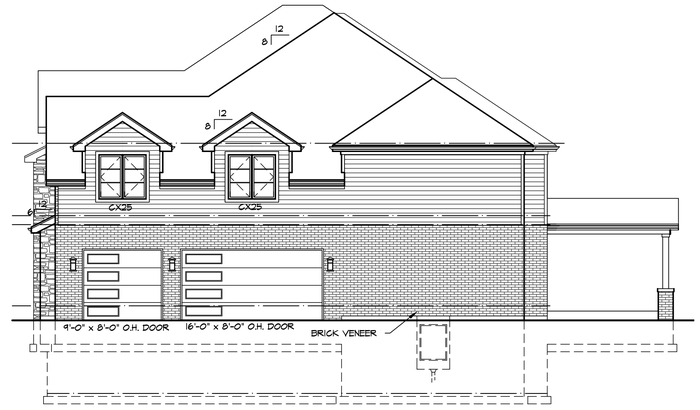
REAR ELEVATION

SCALE:1/4" = 1'-0"



LEFT ELEVATION

SCALE:1/8" = 1'-0"



RIGHT ELEVATION

SCALE:1/8" = 1'-0"

KIRK DESIGN INC.
•ARCHITECTS•
Phone: 630-334-7779
Shorewood, IL
jenkokal@comcast.net

A New Residence for
O'Malley Builders
Lot 52, Evlyn's Gate
Homer Glen, IL

LICENSED ARCHITECT
JENNIFER E. KOKAL
001-020704
STATE OF ILLINOIS

EXPIRES:11/30/2026

REVISIONS:

TITLE:
ELEVATIONS

DRAWN:	CHECKED:
JK	JK

DATE ISSUED:
12/17/25

PROJECT NUMBER:
2025-080

SHEET NUMBER:
A-2

FRAMING NOTES:DEAD LOAD 10#/S.F.

CEILING JOISTS, FLOOR JOISTS AND HEADERS SHALL BE CANADIAN LUMBER BASED UPON U.S. SPAN BOOKS. FOR CANADIAN LUMBER USE SPRUCE-PINE-FIR #2 FOR MEMBERS UP TO 12". FOR MEMBERS 12" AND ABOVE USE HEM-FIR.

ALLOWABLE SPANS ARE AS FOLLOWS:

		SPRUCE-PINE-FIR #2			HEM-FIR #2
CEILING JOISTS - 20lbs LIVE LOAD		2"x6"	2"x8"	2"x10"	2"x12"
	12" O.C.	14'-4"	18'-4"	22'-11"	28'-6"
	16"O.C.	12'-10"	16'-3"	19'-10"	21'-0"
2nd FLOOR, FLOOR JOISTS - 30lbs LIVE LOAD					
	12" O.C.			19'-0"	22'-6"
	16" O.C.			17'-2"	19'-8"
1st FLOOR, FLOOR JOISTS - 40lbs LIVE LOAD					
	12" O.C.			17'-3"	20'-4"
	16" O.C.			15'-5"	17'-7"

MICROLAM LVL AND PARALLAM PSL HEADERS AND BEAMS ARE MANUFACTURED BY "TRUS JOIST MAC MILLAN" OR APPROVED EQUAL.
ENGINEERED LUMBER SHALL NOT BE CUT, DRILLED, NOTCHED UNLESS SPECIFICALLY INCLUDED IN THE DESIGN

TJI JOISTS ARE NOT PERMITTED

LINTEL SCHEDULE

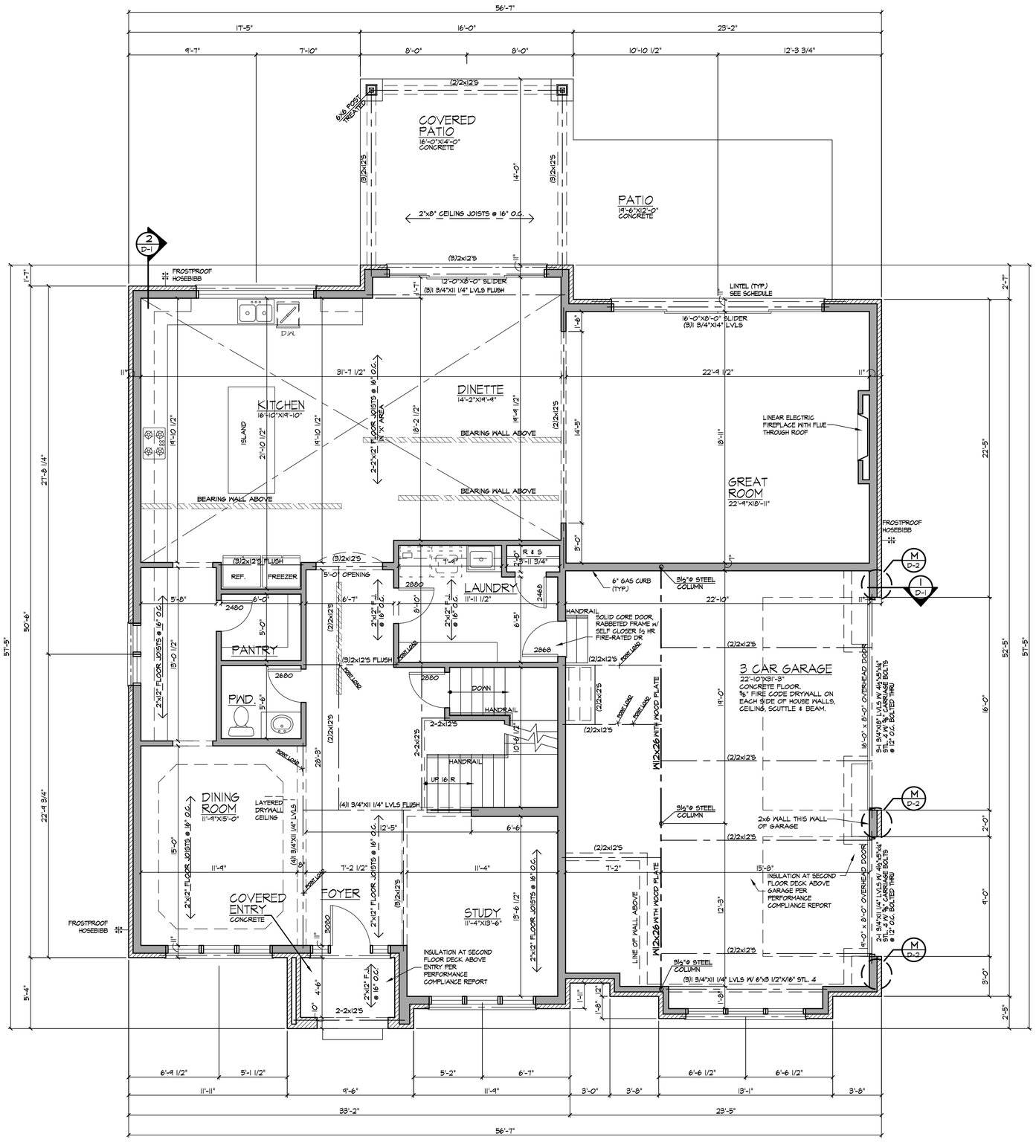
4'-0" OR LESS	∠- 3 1/2"X3 1/2"X5/16"
5'-0"	∠- 3 1/2"X3 1/2"X5/16"
6'-0"	∠- 4"X3 1/2"X5/16"
7'-0"	∠- 4"X3 1/2"X5/16"
8'-0"	∠- 5"X3 1/2"X5/16"
9'-0"	∠- 5"X3 1/2"X3/8"
10'-0"	∠- 6"X3 1/2"X3/8"
16'-0"	∠- 6"X4"X3/8"

LONG LEG OF THE ANGLE SHALL BE PLACED IN A VERTICAL POSITION.

LIGHT AND VENT SCHEDULE

ROOM	AREA	REQ. LIGHT 8%	ACTUAL LIGHT	REQ. VENT 4%	ACTUAL VENT	
KITCHEN/DINETTE	628	50	102	25	36	
GREAT ROOM	431	34	102	17	51	
DINING ROOM	176	14	48	7	OPEN TO FOYER	
STUDY	153	12.2	48	6.1	OPEN TO FOYER	
PWD. 1	32	-	-	480	-	50 CFM EXH. FAN
MASTER BEDROOM	268	21	32	10.5	30.0	
BEDROOM #2	154	12.4	16.0	6.2	15.0	
BEDROOM #3	184	14.8	37	7.4	24	
BEDROOM #4	170	13.6	37	6.8	24	
MASTER BATH	177	-		265		275 CFM EXH. FAN
MASTER BATH W.C.	28	-		42		50 CFM EXH. FAN
BATH #2	47	-	-	70	-	75 CFM EXH. FAN
BATH #3	33	-	-	44	-	50 CFM EXH. FAN
BASEMENT(2%)	2042	40	48.0	40	48.0	

NOTE:
ALL WINDOW SIZES SHOWN ARE DESIGNATED AS "ANDERSEN" MANUFACTURED WINDOWS. IF A DIFFERENT MANUFACTURER IS TO BE USED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT ALL WINDOWS MEET NECESSARY LIGHT, VENT, SAFETY GLAZING, AND EGRESS REQUIREMENTS.



FIRST FLOOR PLAN

SCALE:1/4" = 1'-0"

KIRK DESIGN INC.
ARCHITECTS
Shorewood, IL
Phone: 630-334-7779
jenikokal@comcast.net

A New Residence for
O'Malley Builders
Lot 52, Evlyn's Gate
Homer Glen, IL

LICENSED ARCHITECT
JENNIFER E. KOKAL
001-0207704
STATE OF ILLINOIS

EXPIRES:11/30/2026

REVISIONS:

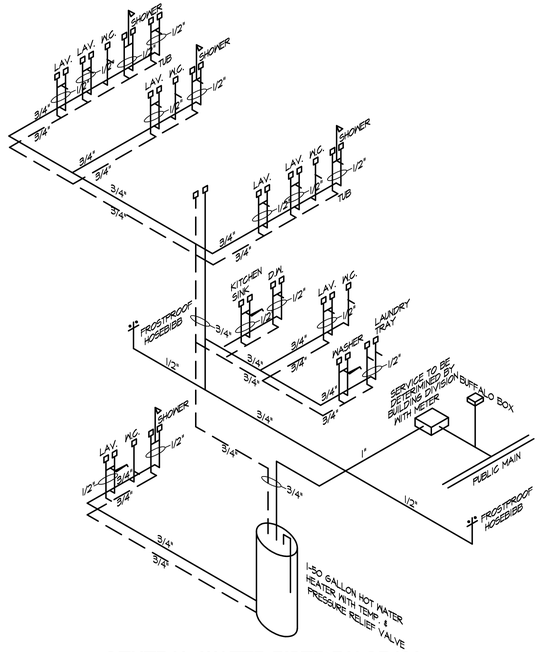
TITLE:
FIRST FLOOR PLAN

DRAWN: JK | CHECKED: JK

DATE ISSUED:
12/17/25

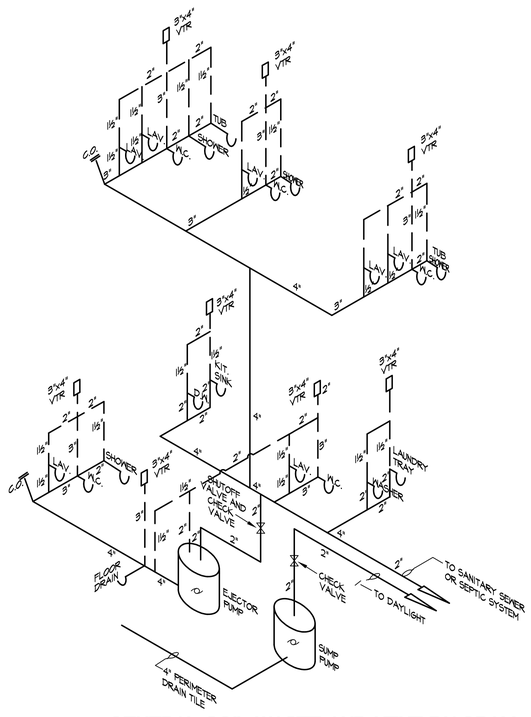
PROJECT NUMBER:
2025-080

SHEET NUMBER:
A-4



GENERAL WATER RISER DIAGRAM

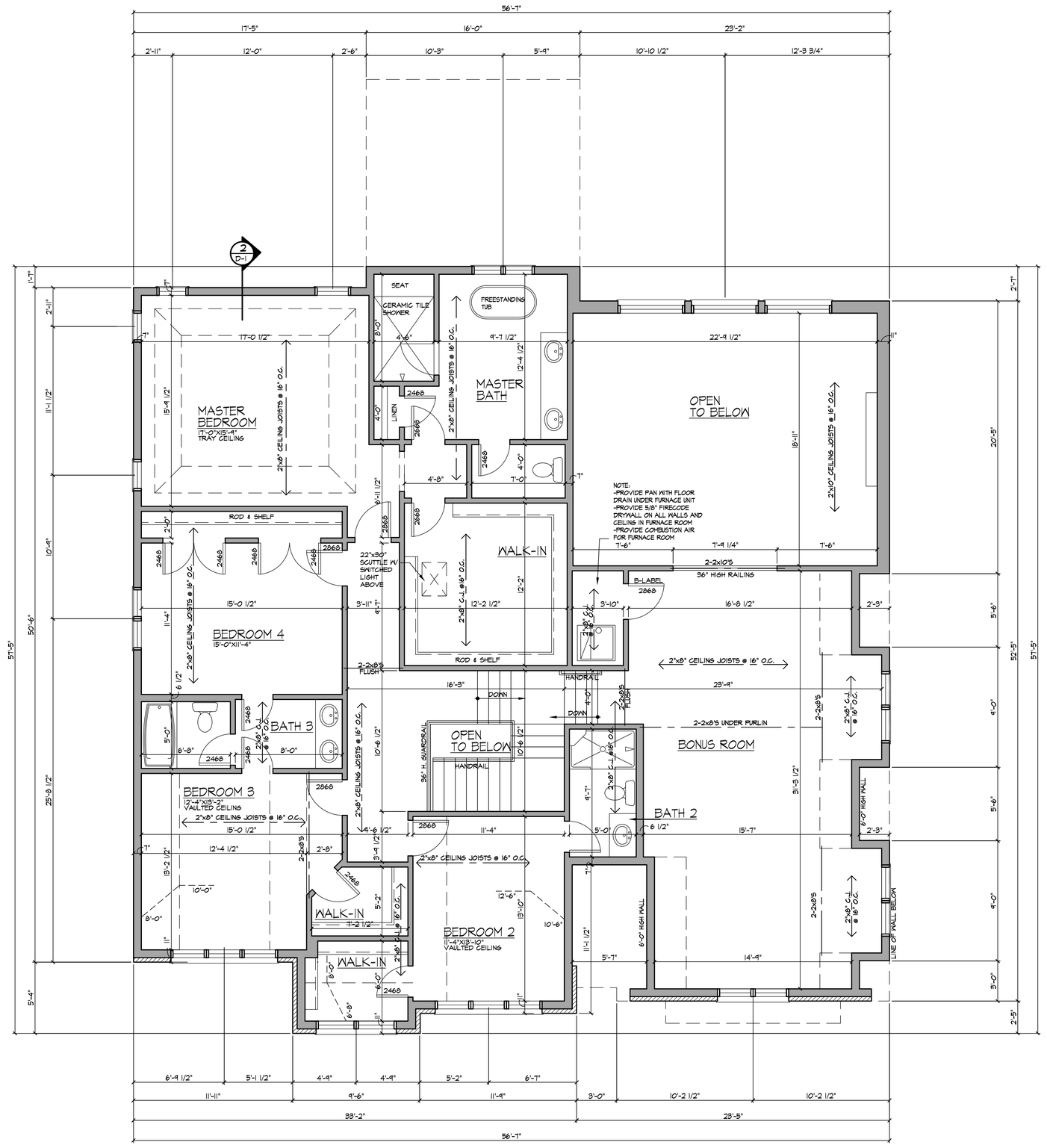
SUPPLY PIPES= COPPER
TYPE K WATER PIPE BELOW GRADE, TYPE L COPPER ABOVE GRADE.
1/2" AIR CHAMBER AT EACH FIXTURE
24" AIR CHAMBER AT EACH RISER
SHUT OFF VALVE AT EACH FIXTURE



GENERAL SOIL WASTE AND VENT DIAGRAM

RETURN PIPES= PVC

1. PROVIDE A SHUTOFF VALVE AND CHECK VALVE ON THE 2" EJECTOR DISCHARGE PIPE.
2. PROVIDE ONE MAIN VENT STACK NO SMALLER THAN 3" INSTALLED ON THE BUILDING DRAIN.



SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"

KIRK DESIGN INC.
·ARCHITECTS·

Phone: 630-334-7779
Shorewood, IL
jenkokal@comcast.net

A New Residence for
O'Malley Builders
Lot 52, Evlyn's Gate
Homer Glen, IL

LICENSED ARCHITECT
JENNIFER E. KOKAL
001-020704
STATE OF ILLINOIS

EXPIRES: 11/30/2026

REVISIONS:

TITLE: SECOND FLOOR PLAN

DRAWN:	CHECKED:
JK	JK

DATE ISSUED: 12/17/25

PROJECT NUMBER: 2025-080

SHEET NUMBER: A-5

DETAILED GRADING PLAN

LOT 52 IN EVLYN'S GATE PHASE 1, BEING A SUBDIVISION OF PART OF THAT PART OF THE SOUTH 1/2 OF THE NORTHEAST 1/4 OF SECTION 21, TOWNSHIP 36 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED JUNE 28, 2005 AS DOCUMENT NUMBER R2005-107596, IN WILL COUNTY, ILLINOIS.

LEGEND FOR OBJECTS

EXISTING		PROPOSED
	SANITARY SEWER	
	STORM SEWER	
	CATCH BASIN	
	OPEN LID MANHOLE	
	CLOSED LID MANHOLE	
	INLET	
W	WATER MAIN	W
	VALVE	
	HYDRANT	
	FLARED END	
	STREET LIGHT	
	UTILITY POLE	
B	B-BOX	
	RETAINING WALL	
	SILT FENCE	
701	CONTOUR	701
X	FENCE	X

100-YEAR OVERFLOW PATH

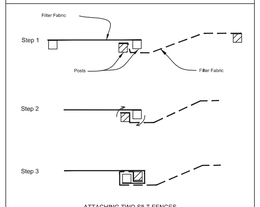
STORM STRUCTURE W/ INLET PROTECTION

EX. TREE TO BE REMOVED

LEGEND FOR SURVEY LINES

- FOUND IRON ROD
- FOUND IRON PIPE
- BOUNDARY LINE
- ADJACENT PROPERTY LINE
- ON-SITE STRUCTURE LINE
- OFF-SITE STRUCTURE LINE
- CENTER LINE
- RIGHT-OF-WAY LINE
- BUILDING SETBACK LINE
- EXISTING EASEMENT LINE

SILT FENCE PLAN



ATTACHING TWO SILT FENCES

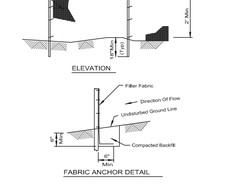
NOTES:
1. Place the end post of the second fence inside the end post of the first fence.
2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material. Drive both posts a minimum of 18 inches into the ground and bury the flap.
3.

DESIGNED / Project / Designed / Checked / Approved — Date / Title

NRCS Natural Resources Conservation Service

STANDARD DWG. NO. IL-620(W) SHEET 1 OF 2 DATE: 1-05-05

SILT FENCE PLAN



NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class with equivalent opening size of at least 30 for nonwoven and 50 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

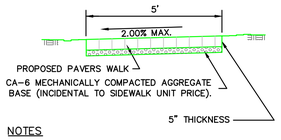
DESIGNED / Project / Designed / Checked / Approved — Date / Title

NRCS Natural Resources Conservation Service

STANDARD DWG. NO. IL-620 SHEET 1 OF 2 DATE: 1-05-05

SIDEWALK DETAIL

NOT TO SCALE

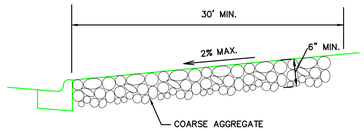


NOTES

1. REMOVE ALL TOPSOIL. PLACE PAVERS ON 4" COMPACTED CA-6 STONE.
2. HIGH SIDE OF WALK TO BE SET 6" ABOVE THE TOP OF CURB UNLESS OTHERWISE NOTED.
3. SIDEWALK SHALL BE 6 INCHES THICK MIN. AT WHEEL CHAIR RAMPS.
4. ALL WALKS SHALL BE PITCHED TO DRAIN WITH 2.00% CROSS SLOPE MAX AND 5% LONGITUDINAL SLOPE MAX

CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

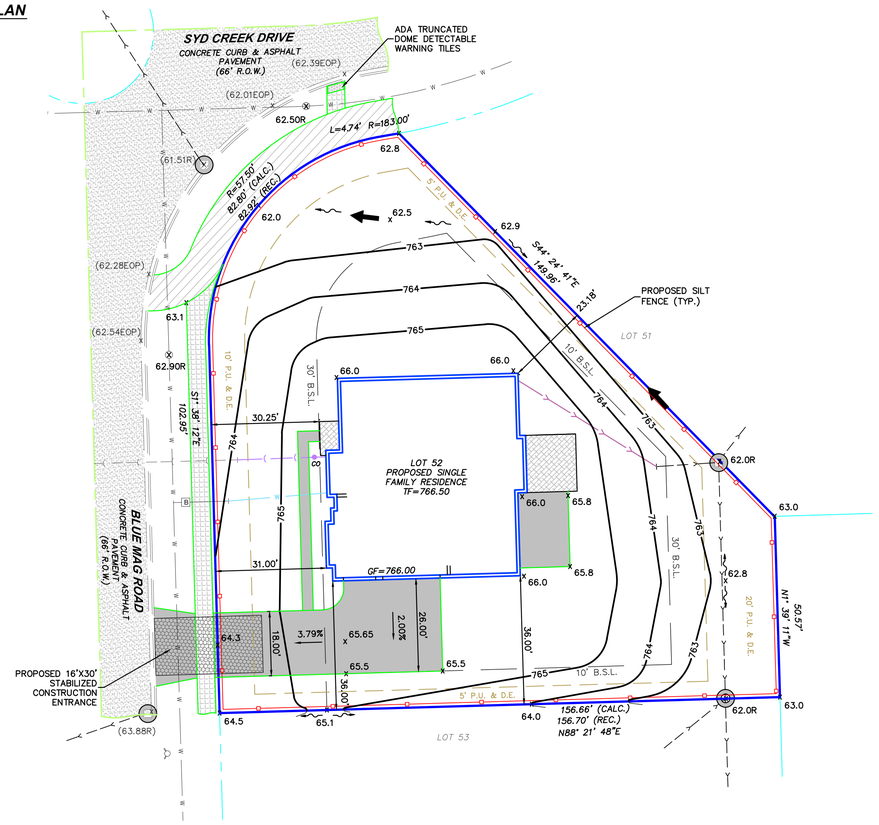


NOTES:

1. WHEN MUD OR OTHER DEBRIS CARRIED FROM THE SITE ON WHEELS OR TRACKS OF CONSTRUCTION EQUIPMENT MAY BE OFFENSIVE, PRESENT A SAFETY HAZARD OR CAUSE DAMAGE TO OTHER PROPERTY, THE WHEELS OR TRACKS SHOULD BE CLEANED TO REMOVE MUD OR DEBRIS PRIOR TO VEHICLES LEAVING THE CONSTRUCTION SITE. WASHING SHOULD BE DONE ON A STABILIZED AREA.

2. THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION WHICH WILL PRE- VENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS COULD REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL SURFACE MATERIALS AS CONDITIONS DEMAND. REPAIR AND/OR CLEANOUT OF ANY FEATURES USED TO TRAP SEDIMENT IS ESSENTIAL AND ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY SHOULD BE REMOVED IMMEDIATELY.

PROPOSED PLAN



NOTE: THE RECORD DIMENSIONS AND BEARINGS OF THE PROPERTY DO NOT CLOSE. MMEI HAS NOT PERFORMED A FIELD SURVEY OF THE PROPERTY AT THIS TIME. THE CALCULATED DIMENSIONS HAVE BEEN DERIVED FROM THE SURROUNDING PROPERTY BOUNDARIES AS SHOWN ON THE RECORDED PLAT.

NOTES:

WATER AND SEWER SERVICES
WATER SERVICE TO BE 1" MIN. TYPE K COPPER MIN. DEPTH 5'.

SANITARY SERVICE TO BE 6" SDR 26 PVC MIN. SLOPE OF 1%

SANITARY & WATER SERVICES ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.

MIN. SEPARATION OF WATER AND SANITARY SERVICES 10'

EROSION CONTROL
TO BE APPLIED PER THE ILLINOIS URBAN MANUAL, LATEST EDITION. SEDIMENT & EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES. THE SEDIMENT & EROSION CONTROL MEASURES SHALL BE PROPERLY MAINTAINED THROUGHOUT THE PROJECT & SHALL REMAIN IN PLACE UNTIL THE FINAL VEGETATED COVER HAS BEEN ESTABLISHED AND/OR PERMANENT EROSION CONTROL MEASURES HAVE BEEN INSTALLED. ANY SEDIMENT & EROSION CONTROL MEASURES THAT ARE REMOVED, AS A RESULT OF ANY CONSTRUCTION ACTIVITIES, MUST BE PROPERLY REINSTALLED PRIOR TO THE END OF EACH DAY.

CONSTRUCTION ACCESS SHALL BE LIMITED TO THE STABILIZED CONSTRUCTION ENTRANCE ONLY, AS IDENTIFIED ON THE APPROVED SITE/GRADING PLAN.

ANY CHANGES AND/OR ADDITIONS FROM THE APPROVED SITE PLAN SHALL BE REVIEWED & APPROVED IN WRITING BY THE VILLAGE OF HOMER GLEN, PRIOR TO ANY CHANGES OR ADDITIONS BEING MADE. ANY WORK COMPLETED, WHICH IS NOT SHOWN ON THE APPROVED PLAN, SHALL BE CONSIDERED WORK WITHOUT A PERMIT AND SHALL BE SUBJECT TO THE SAME VIOLATIONS.

CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION TO DETERMINE IF ANY CONFLICTS EXIST, THE DESIGN ENGINEER MUST BE NOTIFIED PRIOR TO START OF CONSTRUCTION. EXISTING TOPOGRAPHIC INFORMATION WAS PERFORMED ON 06-06-23. COMPARE ALL POINTS BEFORE BUILDING AND REPORT ANY DIFFERENCES AT ONCE. FOR BUILDING LINES, EASEMENTS AND OTHER RESTRICTIONS NOT SHOWN HEREON REFER TO YOUR DEED, CONTRACT, TITLE POLICY, ZONING ORDINANCE, ETC

ANY FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE DIVERTED AROUND THE CONSTRUCTION AREA AND RECONNECTED. THE FIELD TILE(S) SHALL NOT BE ABANDONED, PLUGGED OR CONNECTED TO THE STORM SEWER SYSTEM.

PARKWAY TREES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED SUBDIVISION PLANS AND SPECIFICATIONS AS WELL AS VILLAGE CODE.

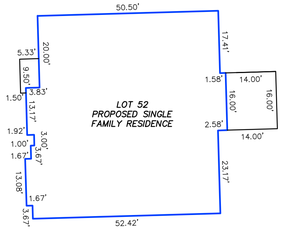
FOR UNDERGROUND UTILITY LOCATIONS AND PRIOR TO ANY CONSTRUCTION, CONTACT J.U.L.I.E., TOLL FREE 1-800-892-0123.

BENCHMARK ON ENGINEERING PLANS:
RAILROAD SPIKE IN SOUTH FACE OF UTILITY POLE ON THE NORTH SIDE OF 159TH STREET ±300' EAST OF GAS LINE PIPES.
ELEV. = 779.35

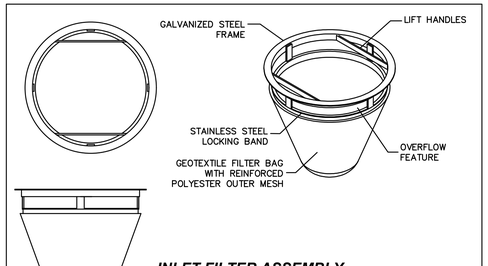
SITE BENCHMARK:
"X" MARKED ON BACK OF CURB NEAR THE EXTENSION OF THE WEST LINE OF LOT 10.
ELEV. = 759.34

OWNER:
O'MALLEY BUILDERS

NOTE: MARTIN M. ENGINEERING, INC. MAKES NO REPRESENTATION AS TO ACCURACY OF THE FOUNDATION DIMENSIONS SHOWN BELOW. FOR ACTUAL DIMENSIONS OF HOME & FOR PROPOSED WINDOW WELL LOCATIONS, REFER TO FOUNDATION PLAN PREPARED BY OTHERS.



BUILDING DIMENSIONS



INLET FILTER ASSEMBLY

NOT TO SCALE

N

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 INCH = 20 ft.

ABBREVIATIONS:

P.U. & D.E.	PUBLIC UTILITY & DRAINAGE EASEMENT	XXX.XXTC	TOP OF CURB ELEVATION
N.F.	NO FENCE	XXX.XME	MATCH EXISTING ELEVATION
N.A.	NO ACCESS	(XX.X)	EXISTING SPOT GRADE PER APPROVED ENGINEERING PLANS
L.C.	LANDCAPE COVENANT	XXX.XX	EX. AS-BUILT GRADE & DESCRIPTION
B.S.L.	BUILDING SETBACK LINE	XXX.X	SPOT GRADE W/ FLOW DIRECTION
TF	TOP OF FOUNDATION		
GF	GARAGE FLOOR	NOTE:	ADD 700 TO ALL PROPOSED SPOT GRADES
LO	LOOK OUT		
WO	WALK OUT		
WW	WINDOW WELL		
DS	DOWN SPOUT		
BL	BRICK LEDGE		
SP	SUMP PUMP		
TL	TREE LINE		

PAVEMENT LEGEND

- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED COVERED PORCH/PATIO
- EXISTING BITUMINOUS PAVEMENT
- EXISTING PAVERS
- PROPOSED PAVERS
- EXISTING CONCRETE

LOT COVERAGE

CURRENT ZONING =	R-3
TOTAL LOT AREA =	18,824 SF
BUILDING AREA =	3,715 SF (19.74%)
CONCRETE AREA =	963 SF
COVERED PORCH AREA =	394 SF

% OF LOT COVERAGE
5,072/18,824 = **26.94%**

SURFACE WATER DRAINAGE CERTIFICATE:

STATE OF ILLINOIS } S.S.
COUNTY OF WILL }

TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE CONSTRUCTION OF THESE LOT IMPROVEMENTS OR ANY PART THEREOF, OR, THAT IF SUCH SURFACE WATER WILL BE CHANGED, ADEQUATE PROVISIONS HAVE BEEN MADE FOR THE COLLECTION AND DIVERSION OF SUCH SURFACE WATERS INTO PUBLIC AREAS, OR DRAINS WHICH THE OWNER HAS A RIGHT TO USE, AND THAT SUCH SURFACE WATER WILL NOT BE DEPOSITED ON THE PROPERTY OF ADJOINING LAND OWNERS IN SUCH CONCENTRATIONS AS MAY CAUSE DAMAGE TO THE ADJOINING PROPERTY BECAUSE OF THE CONSTRUCTION OF THESE LOT IMPROVEMENTS.

DATED THIS 8TH DAY OF DECEMBER, 2025

ENGINEER

LICENSED PROFESSIONAL ENGINEER — BRIAN M. MALONE — 062-057556 — STATE OF ILLINOIS

EXP: 11/30/27

LOT 52 ~ EVLYN'S GATE

HOMER GLEN, ILLINOIS

DETAILED GRADING PLAN

DRAWN BY: JDM	CHECKED BY: BMM
SCALE: 1"=20'	DATE: 08/28/25
JOB NUMBER: 25-211	SHEET: 1 OF 1

#	DATE	DESCRIPTION
1.	12/08/25	PER HOA REVIEW

MARTIN M. Engineering, Inc.
SITE DESIGN CIVIL ENGINEERS & SURVEYORS
20123 OAKWOOD DRIVE
MOKENA, ILLINOIS 60448
VOICE: (708) 995-1323
FAX: (708) 995-1384
LICENSE NO. 184.005285-0010